

**NextEra Energy Transmission New York, Inc.**

**(NEETNY)**

**Empire State Line**

**Case 18-T-0499**

**Appendix R**

**Maintenance and Protection of Traffic Plans**

**June 2020**



GENERAL NOTES

1. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS AND IN THE MUTCD, REFLECT THE MINIMUM REQUIREMENTS.
2. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE FIVE (5) WORK DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE SCOPE OF THE TRAFFIC CONTROL PLAN. SUCH CHANGES IN SCOPE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
3. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, AND THE LOCAL POLICE.

ACTIVITY AREA

1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 500' LONGITUDINAL DISTANCE BETWEEN CONSTRUCTION OPERATIONS ON ALTERNATE SIDES OF THE ROADWAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. WHEN TWO OR MORE AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY, THE CONTRACTOR SHALL ENSURE THERE ARE NO CONFLICTING SIGNS AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.

SIGNS

1. THE LOCATIONS OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
2. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
3. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
4. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF MULTI-LANE DIVIDED HIGHWAYS, MULTI-LANE RAMPS, AND ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. LAYING THE SIGN DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
6. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS ARE DESCRIBED IN THE MUTCD. ANY CHANGES TO THE DIMENSIONS SHALL BE APPROVED BY THE REGIONAL DIRECTOR OR BY HIS/HER DESIGNEE.
7. NYR9-12 MAY BE USED IN PLACE OF NYR9-11.

CHANNELIZING DEVICES

1. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 2' LATERAL CLEARANCE TO THE TRAVELED WAY.

PUBLIC ACCESS

1. PROPERTY OWNERS WHOSE DRIVEWAYS WILL BE MADE INACCESSIBLE SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS PRIOR TO RESTRICTING USE OF THE DRIVEWAY. FOR MULTIPLE ACCESS PROPERTIES, AT LEAST ONE DRIVEWAY SHALL BE OPEN AT ALL TIMES. ACCESS SHALL BE RESTORED TO ALL DRIVEWAYS AS SOON AS POSSIBLE.
2. SUITABLE RAMPS SHALL BE INSTALLED TO MAINTAIN SMOOTH TRANSITIONS FROM RESIDENTIAL AND COMMERCIAL DRIVEWAYS TO AND FROM THE WORK AREA.

LANE CLOSURES

1. THE CONTRACTOR SHALL LOCATE LANE CLOSURES TO PROVIDE OPTIMUM VISIBILITY, I.E. BEFORE CURVES AND CRESTS, TO THE EXTENT CONDITIONS PERMIT.
2. THE ENGINEER MAY REQUIRE THAT ALL LANES BE RE-OPENED AT ANY TIME IF THE ROUTE IS NEEDED FOR EMERGENCY PURPOSES. THIS COULD INCLUDE INCIDENTS AT LOCATIONS OUTSIDE THE CONTRACT LIMITS.

LANE WIDTHS

1. UNLESS AUTHORIZED BY THE ENGINEER, THE MINIMUM LANE WIDTHS FOR WORK ZONE TRAVEL LANES SHALL BE AS FOLLOWS: FREEWAYS AND/OR EXPRESSWAYS IS 11'. THE MINIMUM LANE WIDTH FOR ALL OTHER TYPES OF ROADWAYS IS 10'.
2. THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE ENGINEER, A MINIMUM OF 21 CALENDAR DAYS IN ADVANCE OF PERFORMING ANY WORK THAT RESULTS IN THE REDUCED WIDTH OF AN EXISTING ROADWAY, SO THAT THE ENGINEER MAY NOTIFY THE REGIONAL PERMIT ENGINEER IN A TIMELY MANNER.

BARRIER/SHADOW VEHICLES

1. BARRIER AND SHADOW VEHICLES SHALL BE REQUIRED AS PER STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
2. NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS SHALL BE LOCATED BETWEEN THE BARRIER OR SHADOW VEHICLE AND THE ACTIVE WORK AREA (ROLL AHEAD DISTANCE).
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE A BARRIER VEHICLE IN CONJUNCTION WITH POLICE PRESENCE IN THE WORK ZONE, TO BE INCLUDED IN THE UNIT BID PRICE FOR BASIC WORK ZONE TRAFFIC CONTROL.

ISSUED FOR  
REVIEW

EFFECTIVE DATE: 01/08/09



STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WORK ZONE TRAFFIC CONTROL  
GENERAL NOTES

APPROVED SEPTEMBER 18, 2008

ISSUED UNDER EB 08-036

/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF  
TRAFFIC SAFETY AND MOBILITY

619-10

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mlburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:13 PM Tab:1-Traffic Control Detail



A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG
NO	REVISION	DATE	BY	APR



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS  
TRAFFIC CONTROL DETAILS  
WORK ZONE GENERAL NOTES

DWG. NAME: EST-B-TC01-1 REVISION NO : A

ISSUED FOR REVIEW

TABLE NY1-A BARRIER VEHICLE USE REQUIREMENTS (LONG TERM, INTERMEDIATE TERM, AND SHORT TERM STATIONARY CLOSURES)					
CLOSURE TYPE	EXPOSURE CONDITION <sup>1</sup>	USE REQUIREMENTS <sup>4,5</sup>			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED <sup>3</sup>	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED <sup>3</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>	OPTIONAL <sup>2</sup>

- THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
- WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
- REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRAVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE. WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
- BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
- BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.

TABLE NY1-B SHADOW VEHICLE USE REQUIREMENTS (MOBILE CLOSURES)					
CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>
SHOULDER CLOSURE	WHEN ANY WORKER, VEHICLE, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>	REQUIRED <sup>2,4</sup>

- A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
- SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
- FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
- A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED PAVED SHOULDER 8' OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE REGIONAL DIRECTOR OR HIS/HER DESIGNEE.

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS											
SPEED LIMIT (S) (MPH)		TAPER LENGTH (L) (FT.)		L = TAPER LENGTH W = WIDTH OF OFFSET (FT.) S = PRECONSTRUCTION POSTED SPEED LIMIT (MPH)							
(40 MPH) OR LESS		L = WS <sup>2</sup> /60									
(45 MPH) OR MORE		L = WS									
STANDARD TAPER LENGTHS											
LATERAL SHIFT OF TRAFFIC FLOW PATH	TEMPORARY TRAFFIC CONTROL ZONE POSTED SPEED LIMIT										
	(25 MPH)	(30 MPH)	(35 MPH)	(40 MPH)	(45 MPH)	(50 MPH)	(55 MPH)	(60 MPH)	(65 MPH)	(70 MPH)	
	4	45	60	85	110	180	200	220	240	260	280
	5	55	75	105	135	225	250	275	300	325	350
	6	65	90	125	160	270	300	330	360	390	420
	7	75	105	145	190	315	350	385	420	455	490
	8	85	120	165	215	360	400	440	480	520	560
	9	95	135	185	240	405	450	495	540	585	630
	10	105	150	205	270	450	500	550	600	650	700
	11	115	165	225	295	495	550	605	660	715	770
	12	125	180	245	320	540	600	660	720	780	840

TABLE 6C-2 LONGITUDINAL BUFFER SPACE	
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT.
30	200 FT.
35	250 FT.
40	305 FT.
45	360 FT.
50	425 FT.
55	495 FT.
60	570 FT.
65	645 FT.

TABLE NY2-A PLACEMENT DISTANCE FOR BARRIER VEHICLES				
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	BARRIER VEHICLES*			
	(18000 LBS.)	(24000 LBS.)	(18000 LBS.)	(24000 LBS.)
> 55	100 FT.	200 FT.	100 FT.	200 FT.
45 - 55	100 FT.	200 FT.	85 FT.	165 FT.
< 45	85 FT.	165 FT.	50 FT.	100 FT.

\* AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:

BARRIER VEHICLE - VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES, AND OTHER STATIONARY WORK ZONES.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B PLACEMENT DISTANCE FOR SHADOW VEHICLES				
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT.)			
	SHADOW VEHICLES**			
	(18000 LBS.)	(24000 LBS.)	(18000 LBS.)	(24000 LBS.)
> 55	230 FT.	330 FT.	180 FT.	280 FT.
45 - 55	180 FT.	280 FT.	150 FT.	250 FT.
< 45	100 FT.	200 FT.	100 FT.	200 FT.

\* AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:

SHADOW VEHICLE - VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.

MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE 6C-3 TAPER LENGTH FOR TEMPORARY TRAFFIC CONTROL ZONES	
TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSTREAM TAPER	100 FT. PER LANE

TABLE 619-4 FLARE RATES FOR POSITIVE BARRIER						
TYPE OF POSITIVE BARRIER		POSTED SPEED LIMIT				
		30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER		8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM		7:1	9:1	11:1	12:1	15:1

TABLE NY6H-3 ADVANCE WARNING SIGN SPACING					
ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT.)	B (FT.)	C (FT.)	XX	YY
URBAN (≤ 30 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (≥ 45 MPH*)	350	350	350	1000 FT.	AHEAD
RURAL	500	500	500	1500 FT.	1000 FT.
EXPRESSWAY / FREEWAY	1000	1500	2640	1 MILE	½ MILE

\* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: (MEETS MORE THAN 1 OF THE FOLLOWING CRITERIA) SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT OF WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, 85TH PERCENTILE SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA NOT EXHIBITING MORE THAN ONE OF THE ABOVE CHARACTERISTICS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAYS/INTERSTATE: LOCAL OR INTER REGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

WORK DURATION DEFINITIONS
LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.
INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION FOR MORE THAN 1 HOUR WITHIN A SINGLE DAYLIGHT PERIOD.
SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL TRAILER OR SUPPORT
	CHANGEABLE MESSAGE SIGN (PVS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION
U.S. CUSTOMARY STANDARD SHEET	
WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES	
APPROVED SEPTEMBER 18, 2008	ISSUED UNDER EB 08-036
/S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	619-11

EFFECTIVE DATE: 01/08/09

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mlburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:13 PM Tab:2-Traffic Control Detail

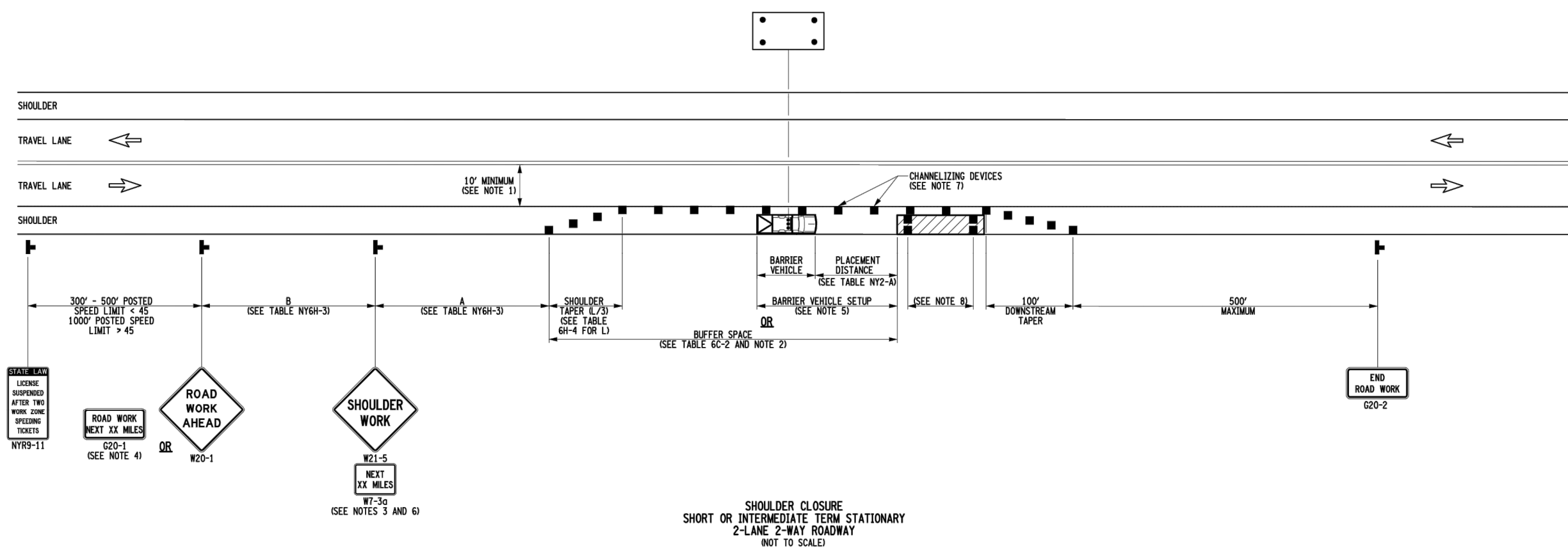


A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG	
NO	REVISION	DATE	BY	APR	



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS TRAFFIC CONTROL DETAILS WORK ZONE LEGENDS AND NOTES		
DWG. NAME:	EST-B-TC01-2	REVISION NO : A



- NOTES:
1. WHEN THE MINIMUM LANE WIDTH OF 10' CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
  2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
  3. WHEN THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND WORK IS 2 MILES TO 5 MILES, A SUPPLEMENTAL DISTANCE PLAQUE (W7-3a) SHOULD BE USED WITH THE SHOULDER WORK SIGN (W21-5).
  4. THE ROAD WORK NEXT XX MILES SIGN (G20-1) MAY BE USED INSTEAD OF THE ROAD WORK AHEAD SIGN (W20-1) IF WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
  5. FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
  6. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED 5 MILES.
  7. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
  8. TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.

ISSUED FOR REVIEW

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SHOULDER CLOSURE  
2-LANE 2-WAY ROADWAY

APPROVED SEPTEMBER 15, 2009  
/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF  
TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 09-025  
619-20

EFFECTIVE DATE: 01/07/10

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mlburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:14 PM Tab:3-Traffic Control Detail

ECI ENGINEERING  
SERVICES, P.C.

A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG
NO	REVISION	DATE	BY	APR

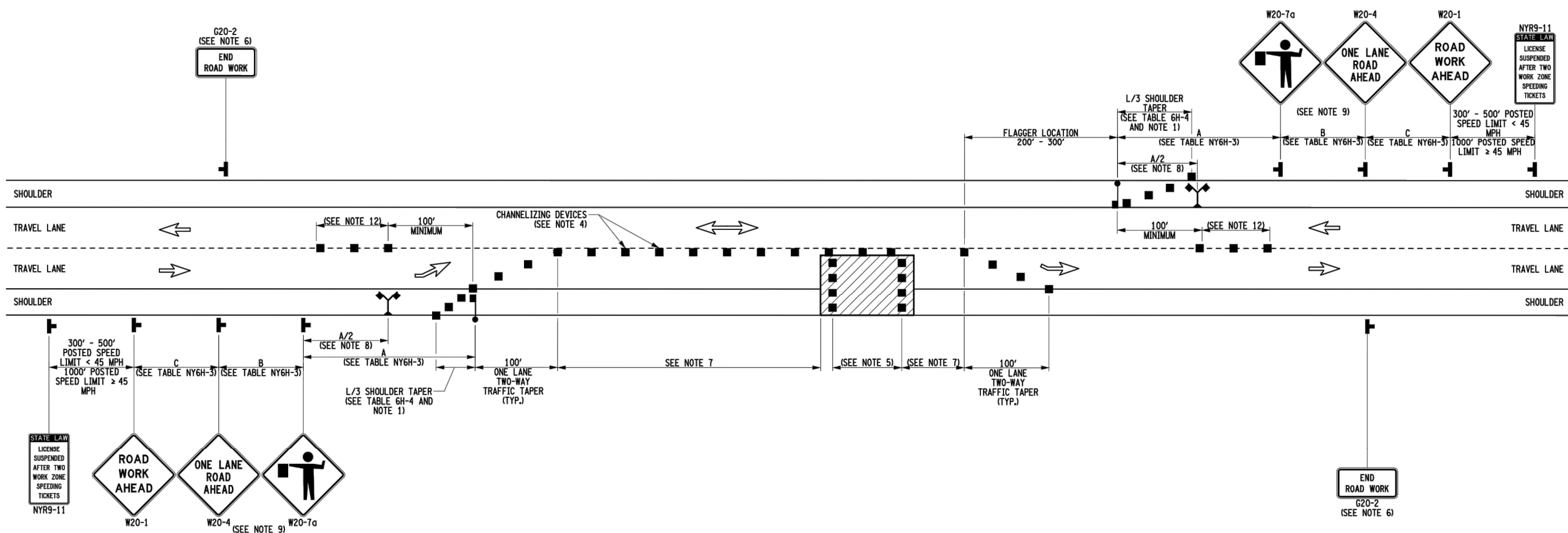
NEXTERA<sup>TM</sup>  
ENERGY

TRANSMISSION  
NEW YORK

ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS  
TRAFFIC CONTROL DETAILS  
SHOULDER CLOSURE 2-LANE 2-WAY ROADWAY

DWG. NAME: EST-B-TC01-3  
REVISION NO : A



FLAGGING OPERATION  
SHORT OR INTERMEDIATE TERM STATIONARY  
LANE CLOSURE ON 2-LANE 2-WAY ROADWAY  
(NOT TO SCALE)

NOTES:

- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
- WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
- CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
- WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
- THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7a) AND THE FLAGGER.
- FLAGGER SIGN (W20-7a) AND ONE LANE ROAD AHEAD SIGN (W20-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
- FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
- ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6' STAFF.
- CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MAY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

ISSUED FOR  
REVIEW

EFFECTIVE DATE: 01/07/10

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
U.S. CUSTOMARY STANDARD SHEET	
FLAGGING OPERATION 2-LANE 2-WAY ROADWAY	
APPROVED SEPTEMBER 15, 2009 /S/ DAVID J. CLEMENTS, P.E. DIRECTOR, OFFICE OF TRAFFIC SAFETY AND MOBILITY	ISSUED UNDER EB 09-025  619-60

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mlburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:14 PM Tab: 4-Traffic Control Detail

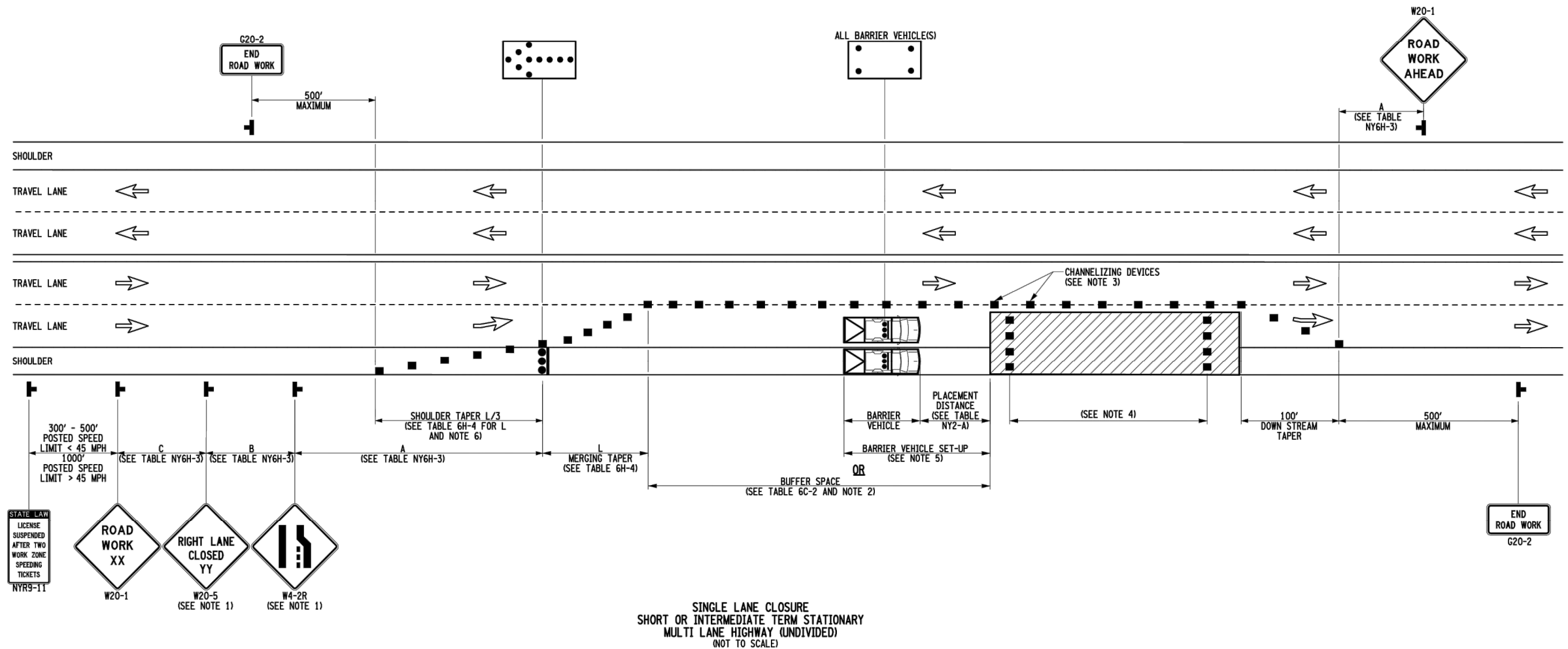
ECI ENGINEERING  
SERVICES, P.C.

A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG	
NO	REVISION	DATE	BY	APR	

NEXTERA  
ENERGY  
TRANSMISSION  
NEW YORK

ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS TRAFFIC CONTROL DETAILS FLAGGING OPERATION 2-LANE 2-WAY ROADWAY	
DWG. NAME: EST-B-TC01-4	REVISION NO : A



- NOTES:
- LEFT LANE CLOSURES ARE SYMMETRICAL TO RIGHT LANE CLOSURES. SUBSTITUTE LEFT LANE CLOSED SIGN (W20-5) AND THE CORRESPONDING LANE ENDS SIGN (W4-2L).
  - NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
  - CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
  - TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
  - FOR BARRIER VEHICLE USE REQUIREMENTS SEE TABLES NY1-A AND NY2-A ON THE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES".
  - WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK SPACE AND TO DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVELED WAY.

NOTE: SEE STANDARD SHEET TITLED "WORK ZONE TRAFFIC CONTROL LEGENDS AND NOTES" FOR LEGEND OF SYMBOLS AND/OR LETTER CODES USED IN THIS DRAWING.

ISSUED FOR REVIEW

STATE OF NEW YORK  
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

SINGLE LANE CLOSURE  
MULTI LANE HIGHWAY

APPROVED SEPTEMBER 18, 2008  
/S/ DAVID J. CLEMENTS, P.E.  
DIRECTOR, OFFICE OF  
TRAFFIC SAFETY AND MOBILITY

ISSUED UNDER EB 08-036  
619-30

EFFECTIVE DATE: 01/08/09

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mlburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:14 PM Tab:5-Traffic Control Detail

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SERVICES, P.C.

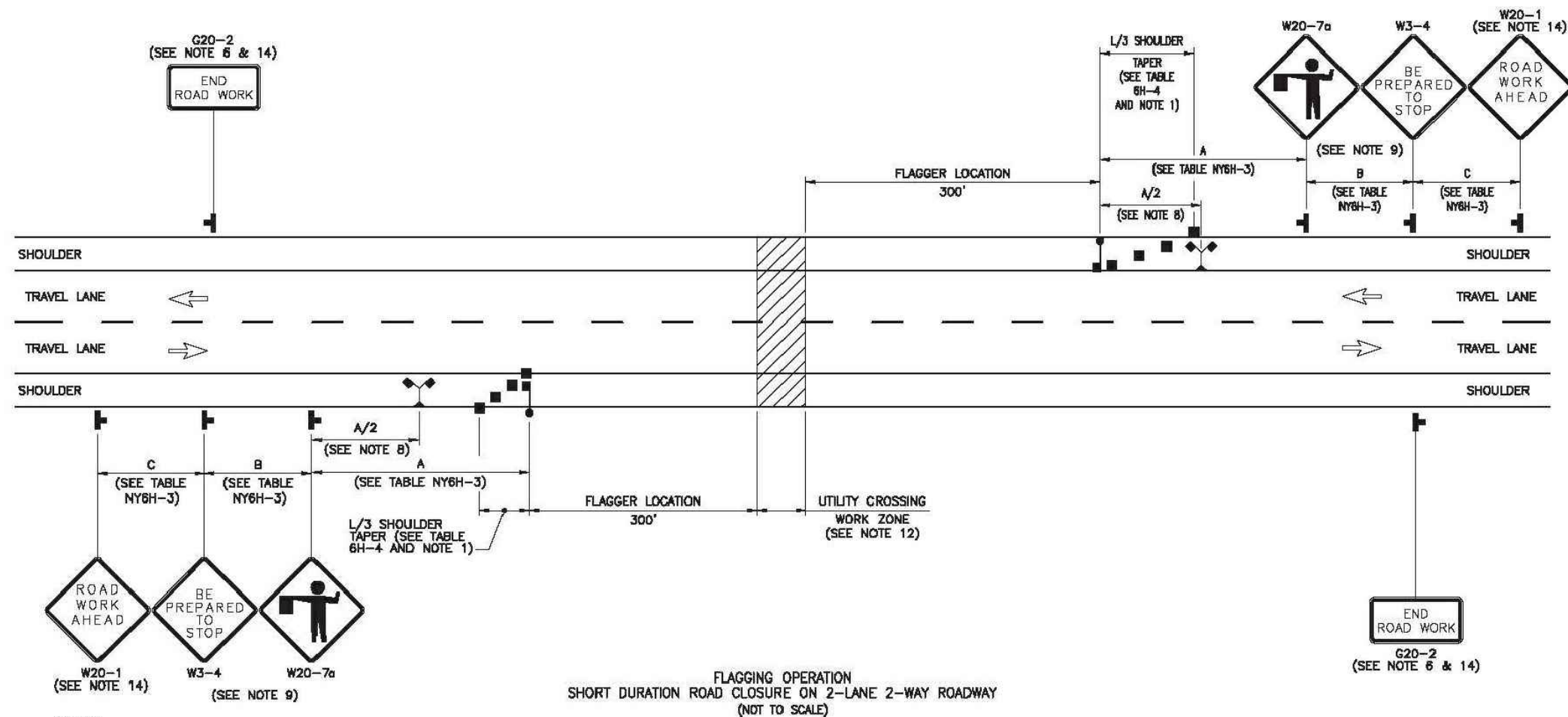
A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG	
NO	REVISION	DATE	BY	APR	

NEXTERA  
ENERGY  
TRANSMISSION  
NEW YORK

ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS  
TRAFFIC CONTROL DETAILS  
SINGLE LANE CLOSURE MULTI LANE HIGHWAY

DWG. NAME: EST-B-TC01-5  
REVISION NO : A



**NOTES:**

- WHEN PAVED SHOULDERS HAVING A WIDTH OF 8' OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
- WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40' IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF 8' OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1500'.
- THE END ROAD WORK SIGN (G20-2) SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
- A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
- THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY HALF THE DISTANCE BETWEEN THE FLAGGER SIGN (W20-7A) AND THE FLAGGER.
- FLAGGER SIGN (W20-7A) AND BE PREPARED TO STOP SIGN (W3-4) SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT OCCURRING.
- FLAGGER AND FLAG TREE SHALL BE ILLUMINATED TO LEVEL II ILLUMINATION DURING NIGHT TIME OPERATIONS.
- ALL FLAGGERS SHALL USE 24" (MIN.) OCTAGON SHAPED STOP/SLOW PADDLES HAVING 6" STAFF.
- UTILITY CROSSING WORK ZONE CLOSURE LIMITED TO 5 MINUTE MAXIMUM DURATION. QUEUED TRAFFIC MUST BE ALLOWED TO CLEAR BEFORE COMMENCING WITH A SUCCESSIVE ROAD CLOSURE.
- SEE NYSDOT STANDARD SHEET 819-11 FOR SIGN SPACING AND DEFINITIONS.
- ROAD WORK AHEAD (W20-1) AND END ROAD WORK (G20-1) SIGNS SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES IN THE VICINITY OF THE ROADWAY ARE COMPLETED.

**ISSUED FOR REVIEW**

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: mburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:14 PM Tab:6-Traffic Control Detail

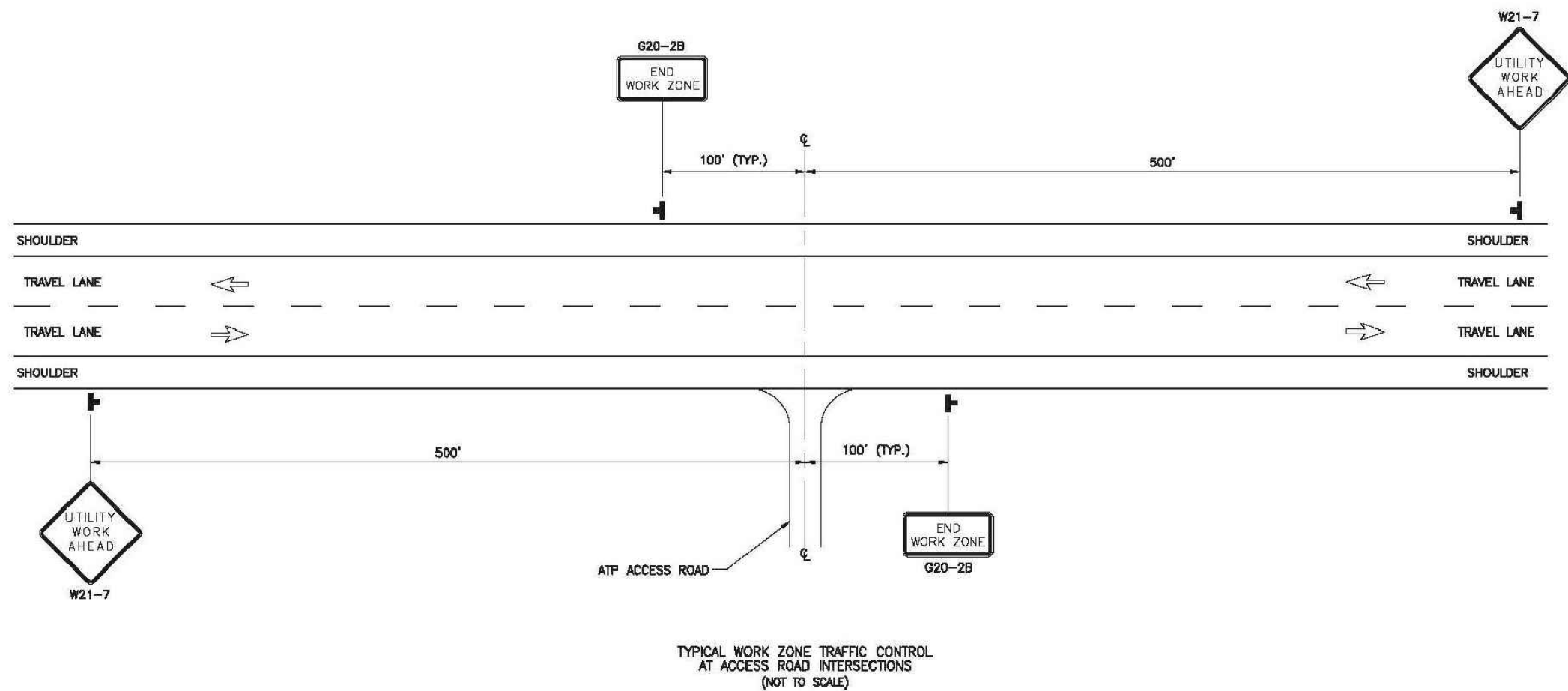


A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG	
NO	REVISION	DATE	BY	APR	



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS		
TRAFFIC CONTROL DETAILS		
FLAGGER OPERATION		
DWG. NAME:	EST-B-TC01-6	REVISION NO : A



**NOTES:**

1. CONFORM WITH SHOULDER CLOSURE AND LANE CLOSURE TRAFFIC DETAILS AS NEEDED FOR ACCESS ROAD IMPROVEMENTS IMMEDIATELY ADJACENT TO ANY PUBLIC ROADS.
2. UTILITY WORK AHEAD (W21-7) AND END WORK ZONE (G20-2B) SIGNS SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ON THE ATP ARE COMPLETED.

ISSUED FOR  
REVIEW

FILE LOCATION: L:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-B-TC01.DWG LAST SAVED BY: miburtell 11/19/2019 7:09 AM PLOTTED BY: Michelle L. Burtell 12/13/2019 4:14 PM Tab: 7-Traffic Control Detail



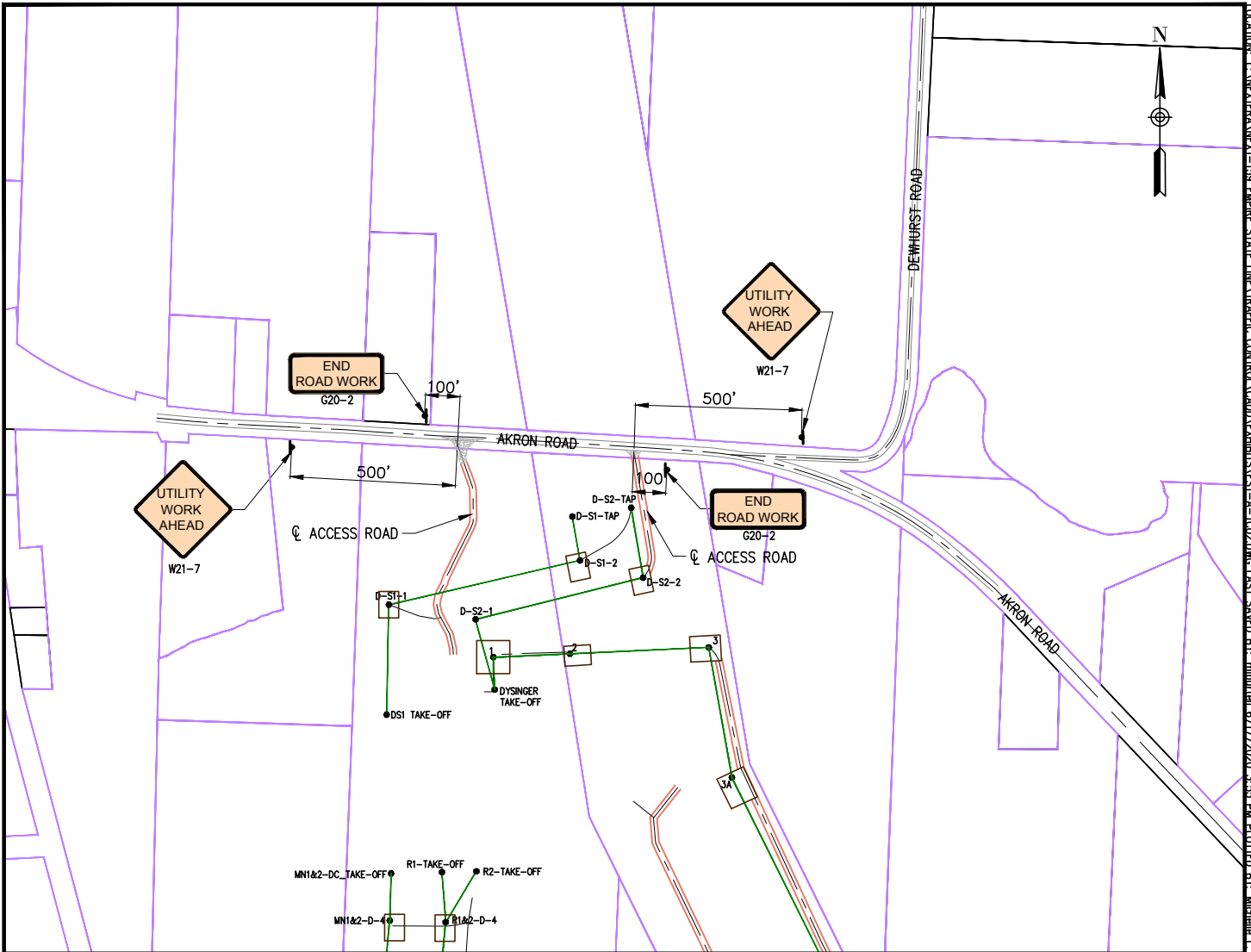
A	ISSUED FOR REVIEW	XX/XX/XX	DFT	ENG
NO	REVISION	DATE	BY	APR



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/07/19
DESIGNED	D. JOHNSON	11/07/19
CHECKED		
APPROVED		
DWG SCALE: NONE	PLT SCALE: 1:1	

EMPIRE STATE LINE TRAFFIC CONTROLS		
TRAFFIC CONTROL DETAILS		
TYPICAL WORK ZONE TRAFFIC CONTROL		
DWG. NAME:	EST-B-TC01-7	REVISION NO : A

LOCATION: I:\NEXTERA\NEXT-1199.EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



## STATE ROUTE 93 ACCESS

NOT TO SCALE

### LEGEND



SIGN

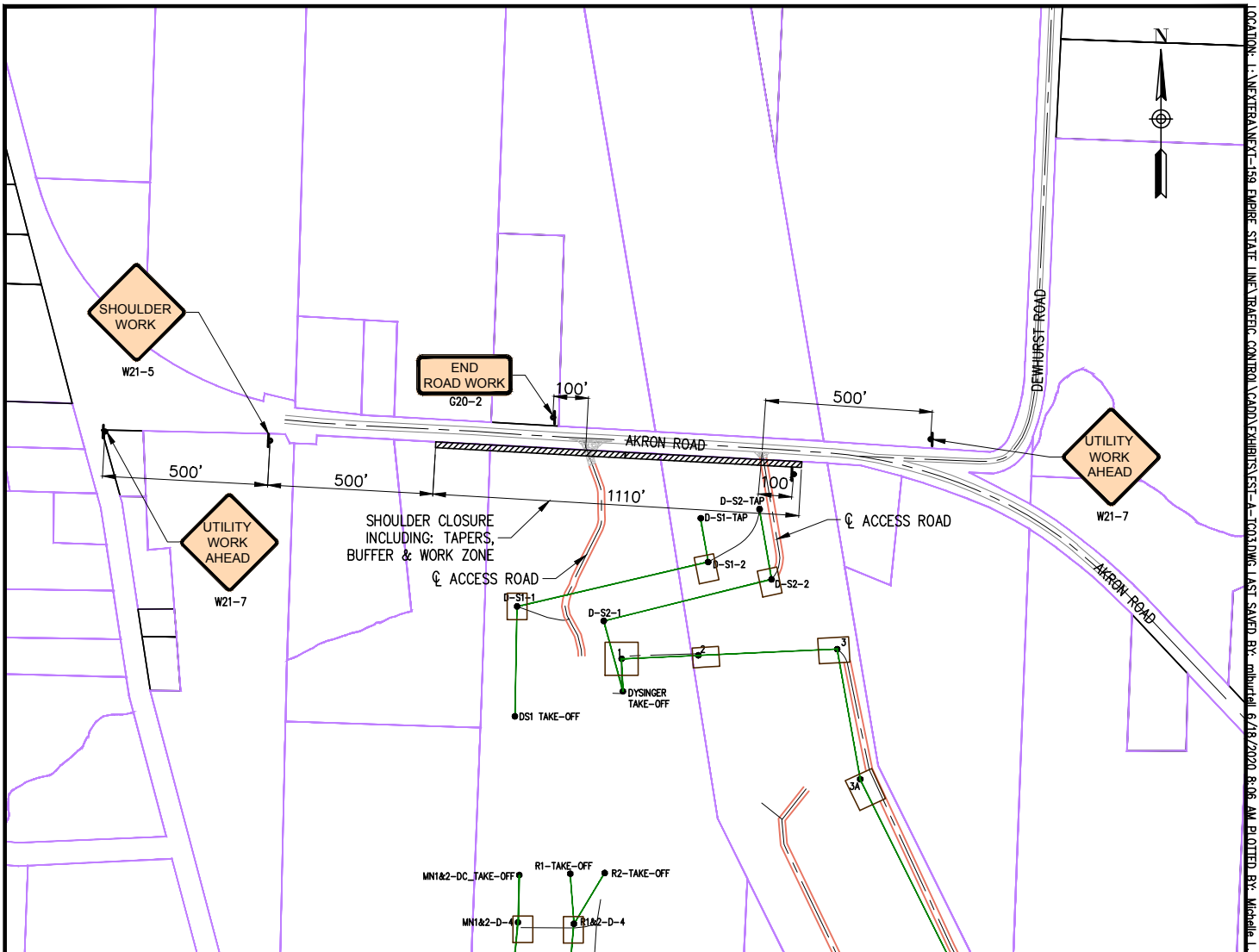
Q ACCESS ROAD

APPROXIMATE PROPERTY  
LINE OR HWY. BOUNDARY

TRANSMISSION LINE

### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



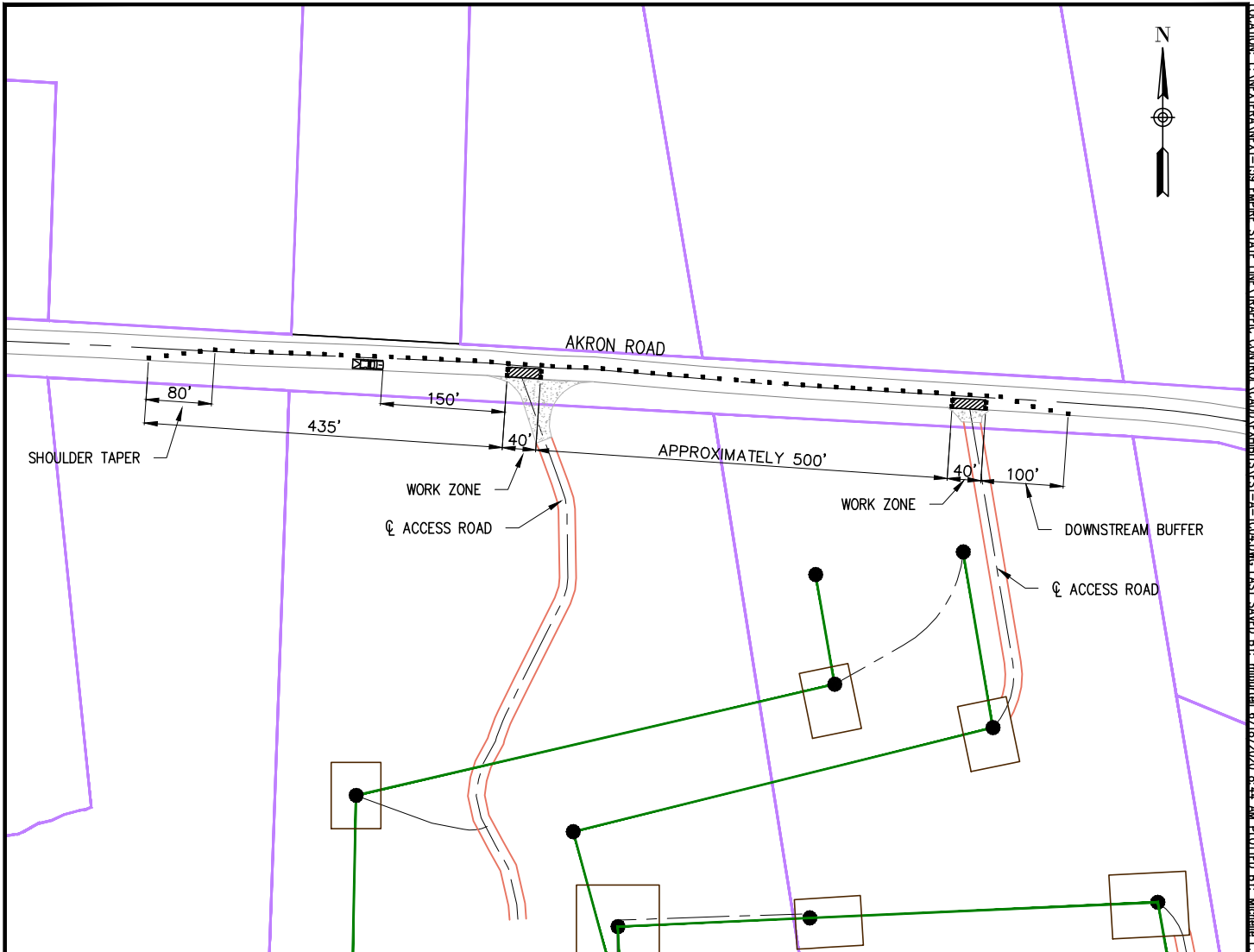
# STATE ROUTE 93 – SHOULDER CLOSURE NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

- SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
- SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
- TURN "UTILITY WORK AHEAD" SIGN ON EASTBOUND STATE ROUTE 93 FOR DURATION OF SHOULDER CLOSURE, RETURN SIGN UPON COMPLETION OF CLOSURE.

LOCATION: I:\NEXTERA\NEXTE-1199.EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-1004.DWG, LAST SAVED BY: mburtell, 6/18/2020, 8:44 AM PLOTTED BY: Michelle L. Burtell

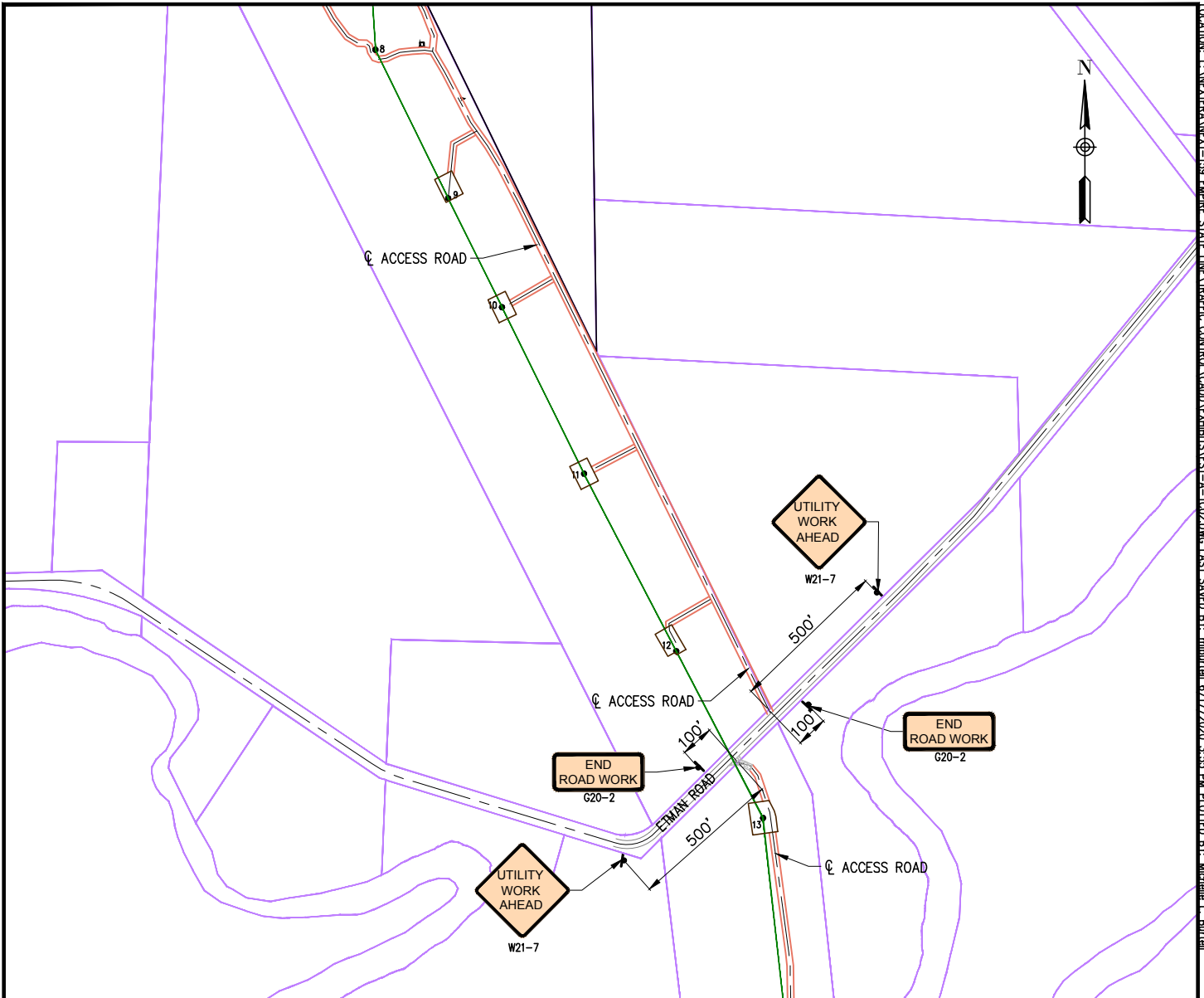


STATE ROUTE 93  
SHOULDER CLOSURE WORK ZONE  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40'.
4. BARRIER VEHICLE SPACING IS: MIN. 100', MAX 150' FROM WORK ZONE.



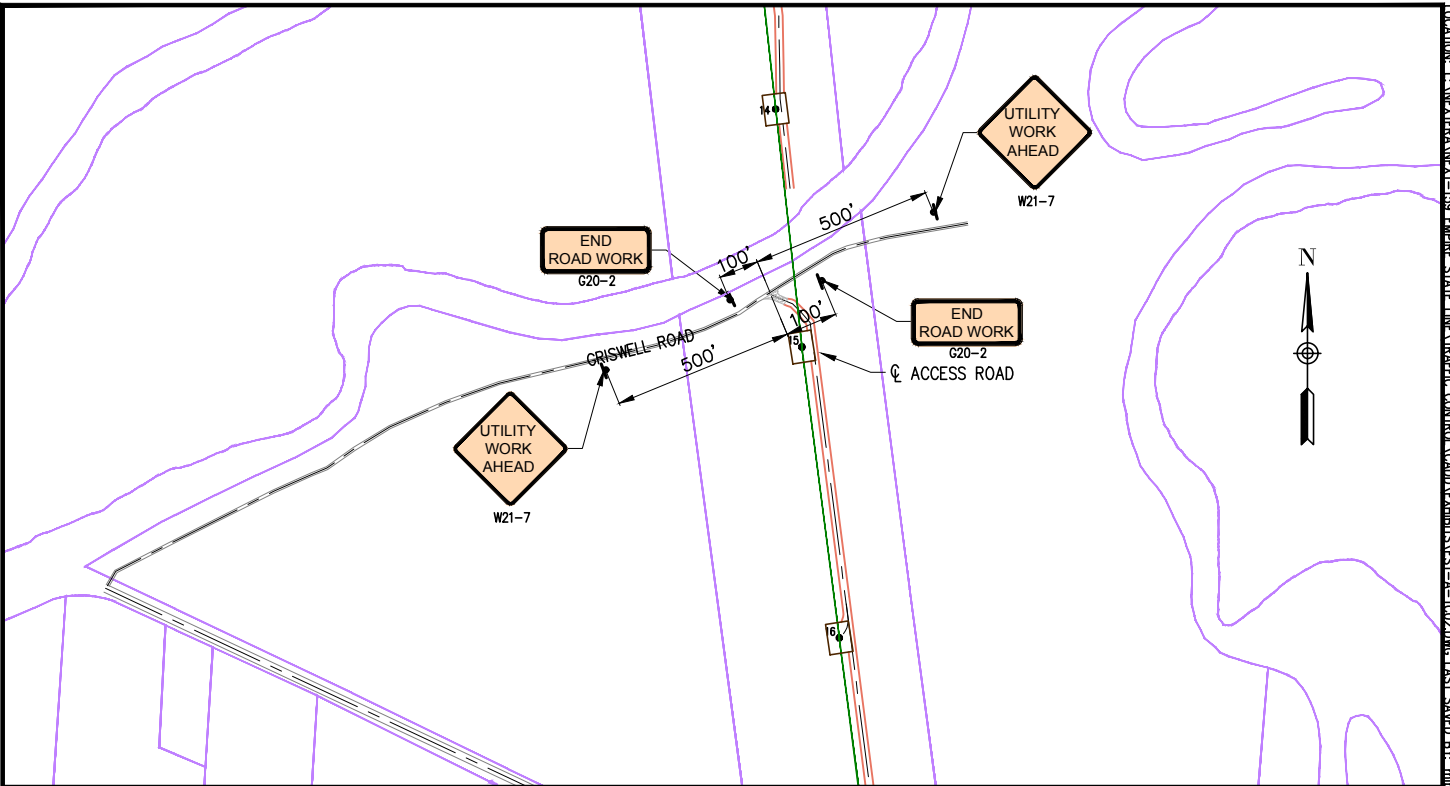
# ETMAN ROAD ACCESS NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

- SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
- SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
- SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
- SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXT-1199 EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



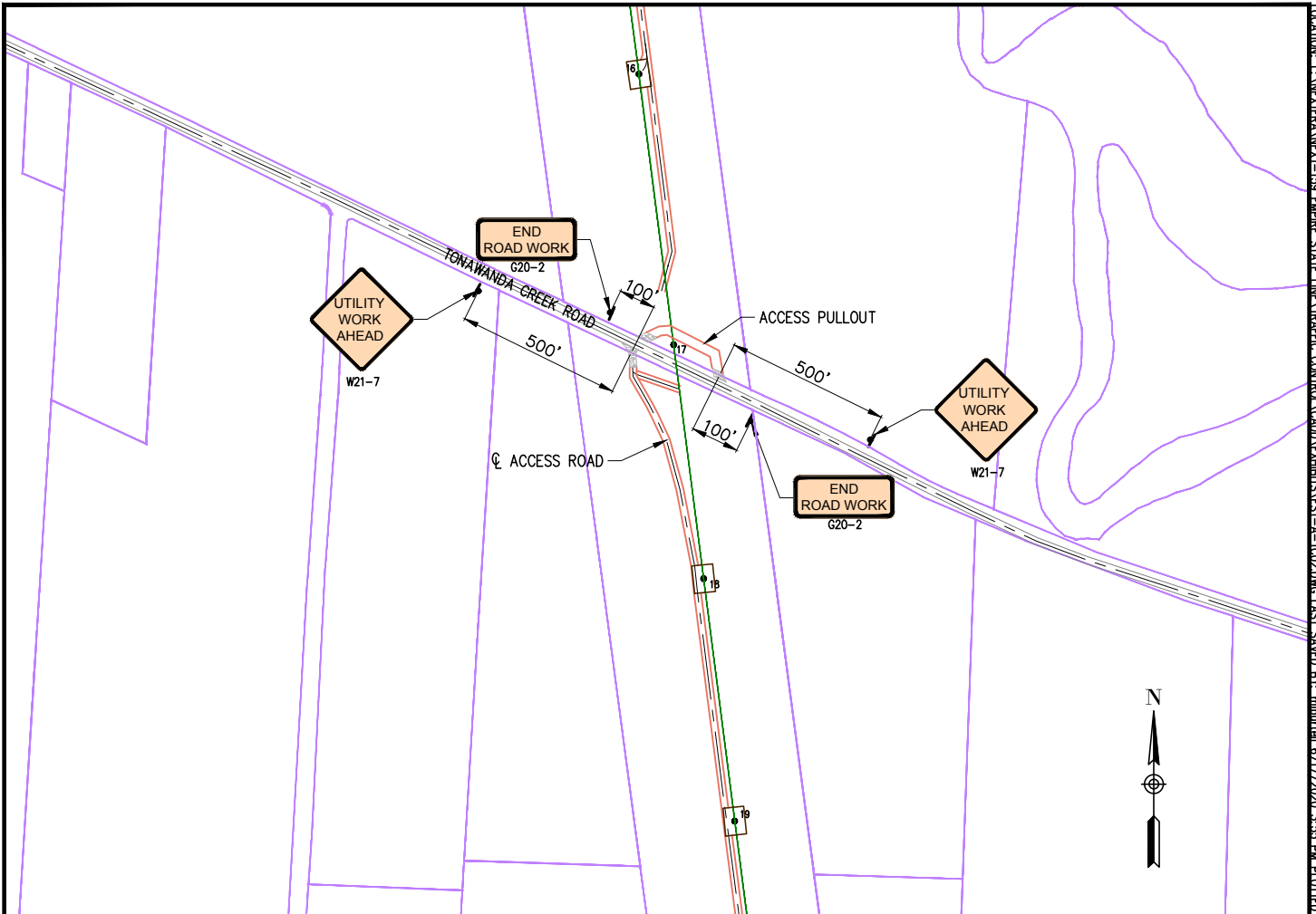
GRISWELL ROAD ACCESS  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

- NOTES:
1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
  2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
  3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
  4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

 ECI ENGINEERING SERVICES, P.C.	 TRANSMISSION NEW YORK	ENGINEERING RECORD		DATE	EMPIRE STATE LINE TRAFFIC CONTROLS TRAFFIC CONTROL
		DRAWN	M. BURTELL	11/08/19	
		DESIGNED	D. JOHNSON	11/08/19	
		CHECKED			
		APPROVED			
DWG SCALE: AS NOTED		PLT SCALE: 1:1		DWG. NAME: EST-A-TC02-3	REVISION NO : A

LOCATION: 1.1\NEXTERA\NEXT-1199 EMPIRE STATE LINE\TRAFFIC CONTROL\CDAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



# TONAWANDA CREEK ROAD ACCESS NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

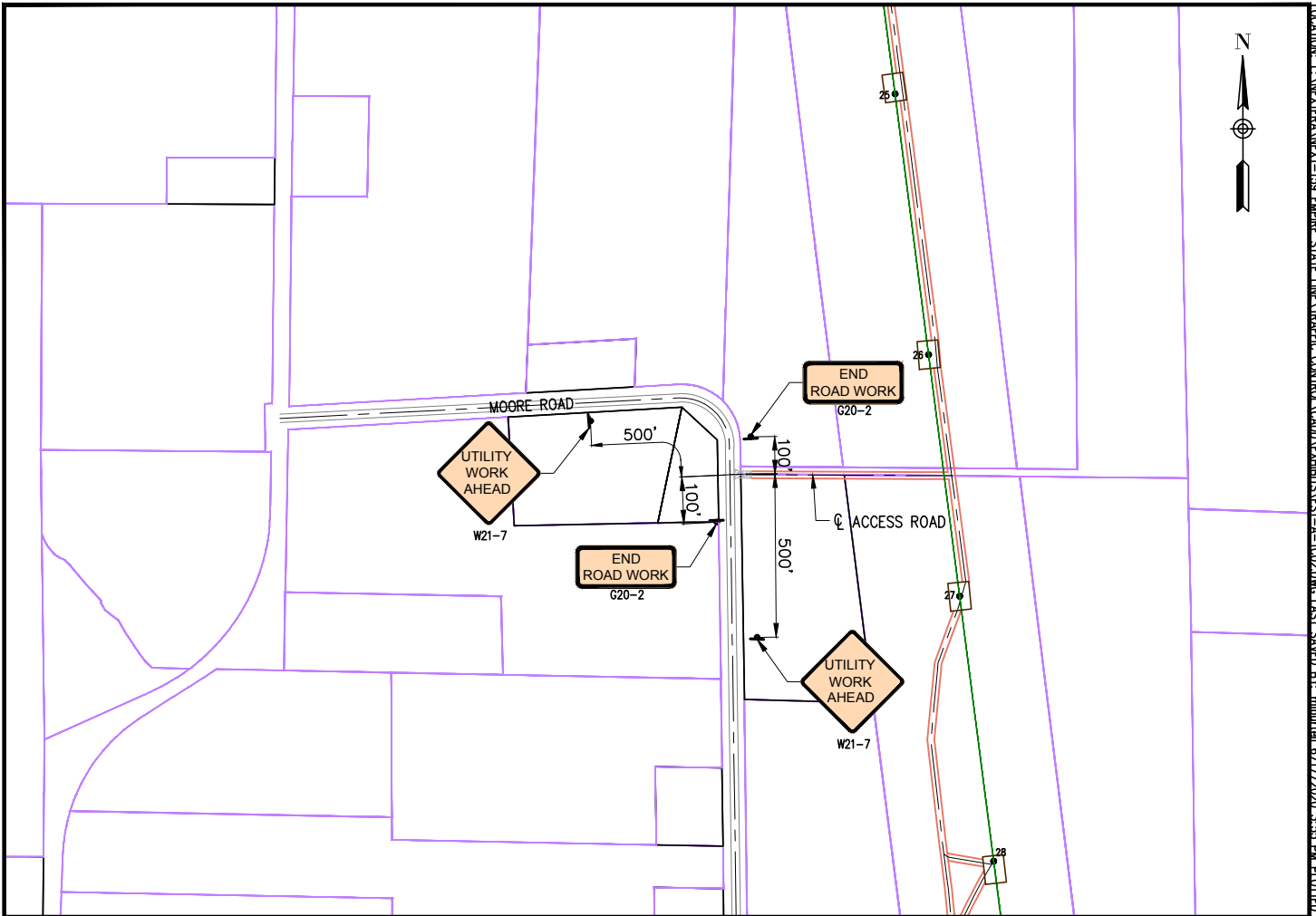
1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.







ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME:	EST-A-TC02-4
REVISION NO :	A

LOCATION: I:\NEXTERA\NEXT-159. EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell

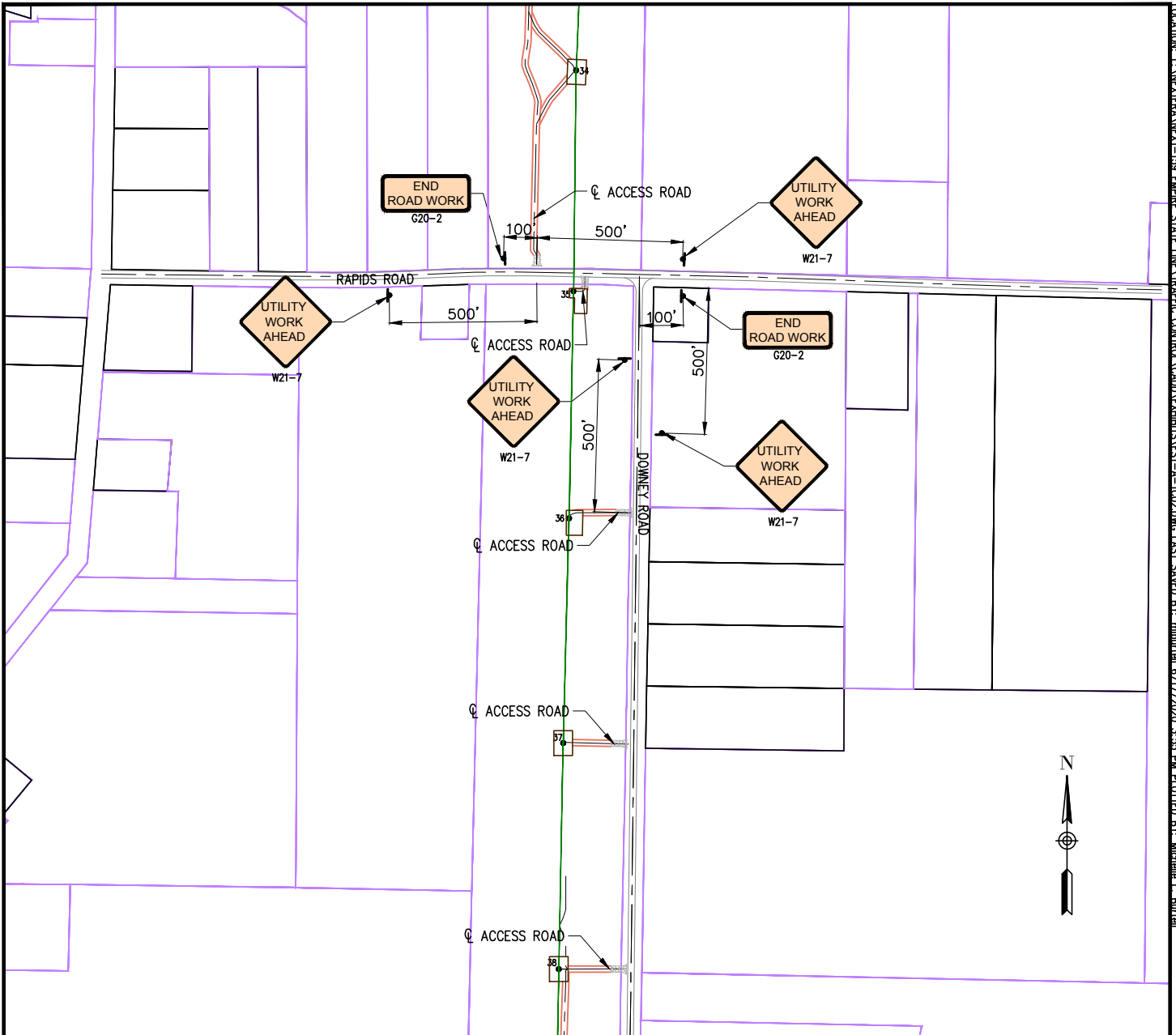


**MOORE ROAD ACCESS**  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

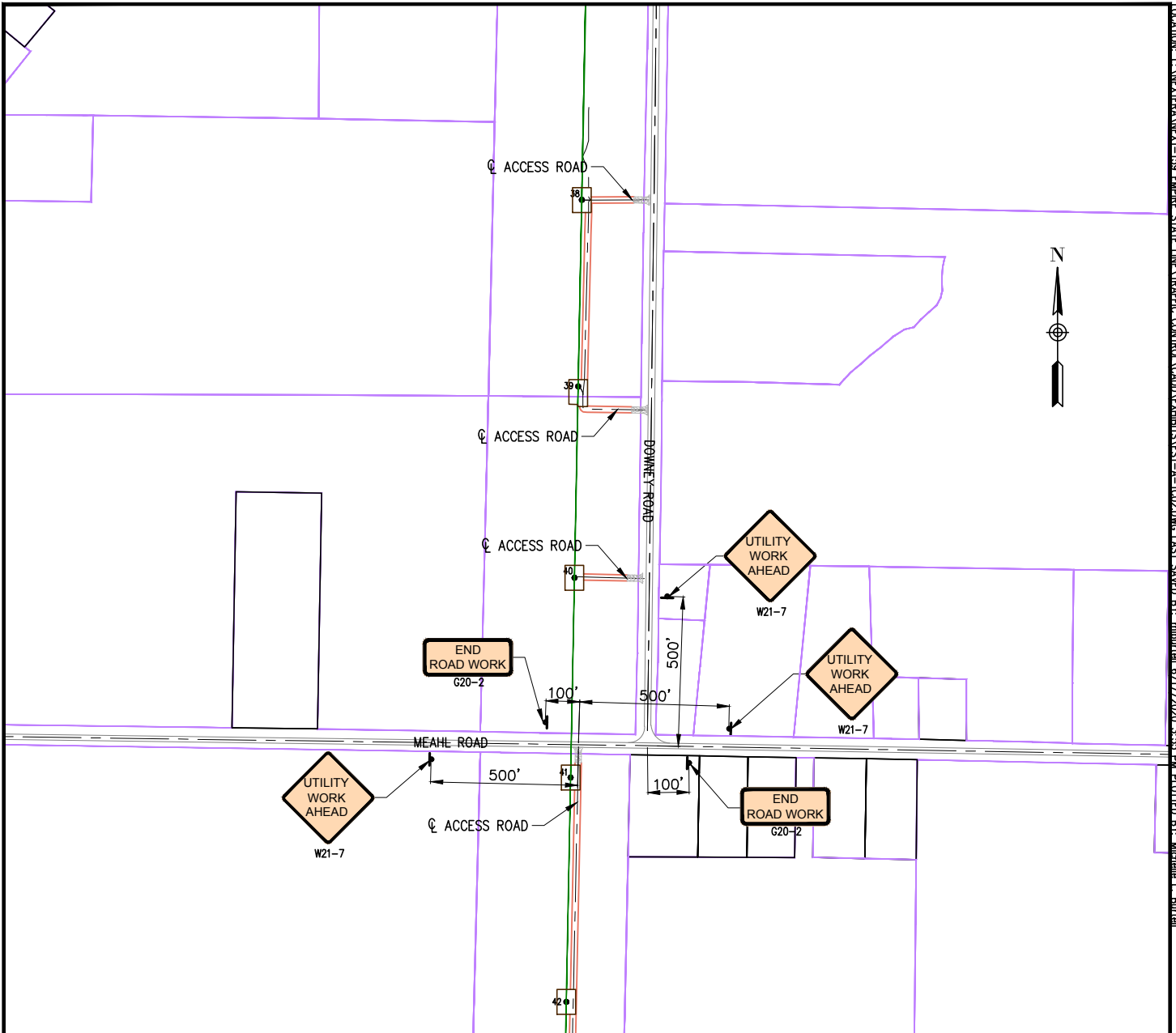


**RAPIDS/DOWNEY ROAD ACCESS**  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



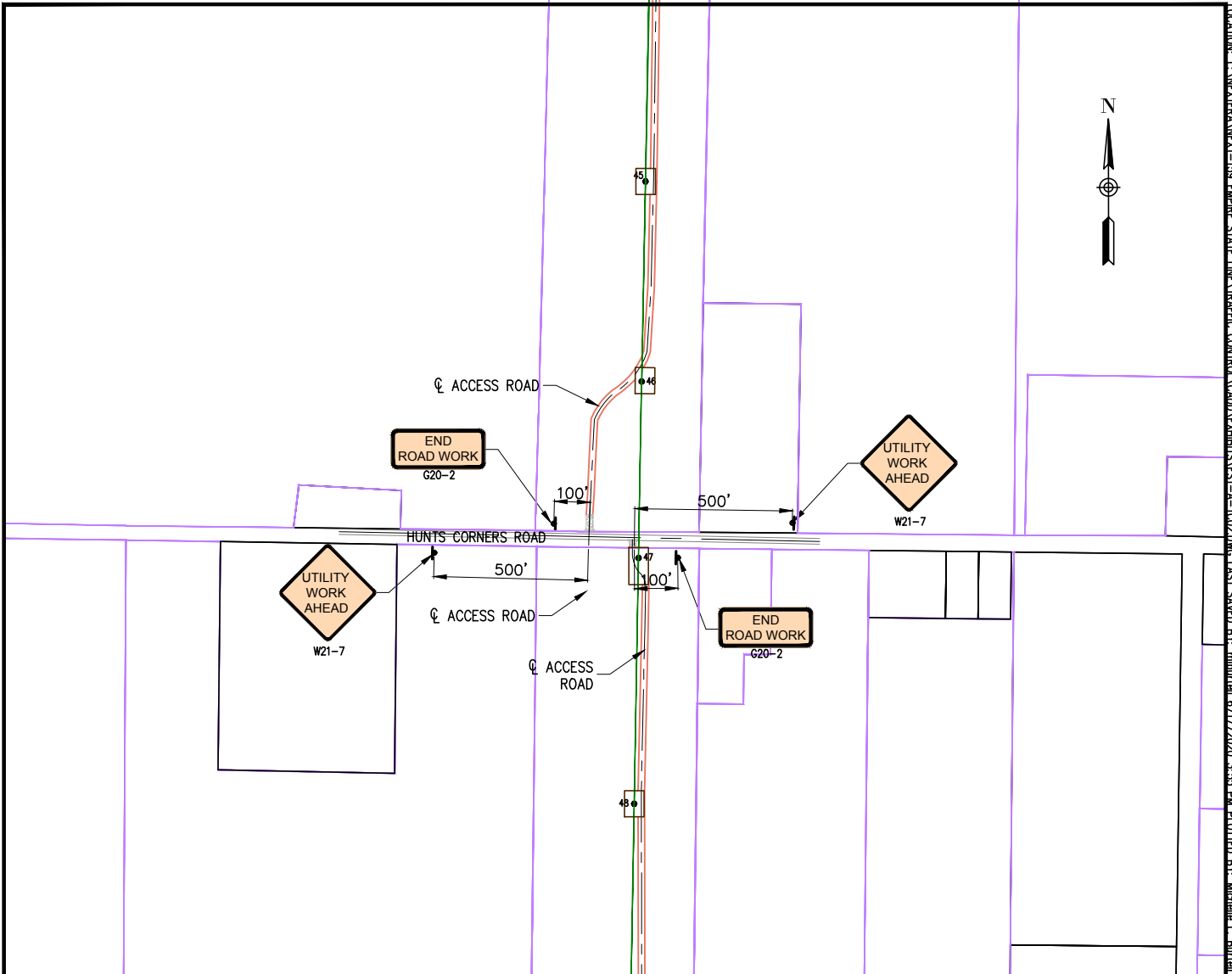
MEAHL/DOWNEY ROAD ACCESS  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I-190 EXHIBIT A-1-190 EMPER STATE LINE TRAFFIC CONTROL VADO EXHIBITS EST-A-1-TC02 DWG. LAST SAVED BY: mburtell 6/17/2020 3:55 PM PLOTTED BY: Michelle L. Burtell



### HUNTS CORNERS ROAD ACCESS

NOT TO SCALE

#### LEGEND



SIGN

--- ACCESS ROAD

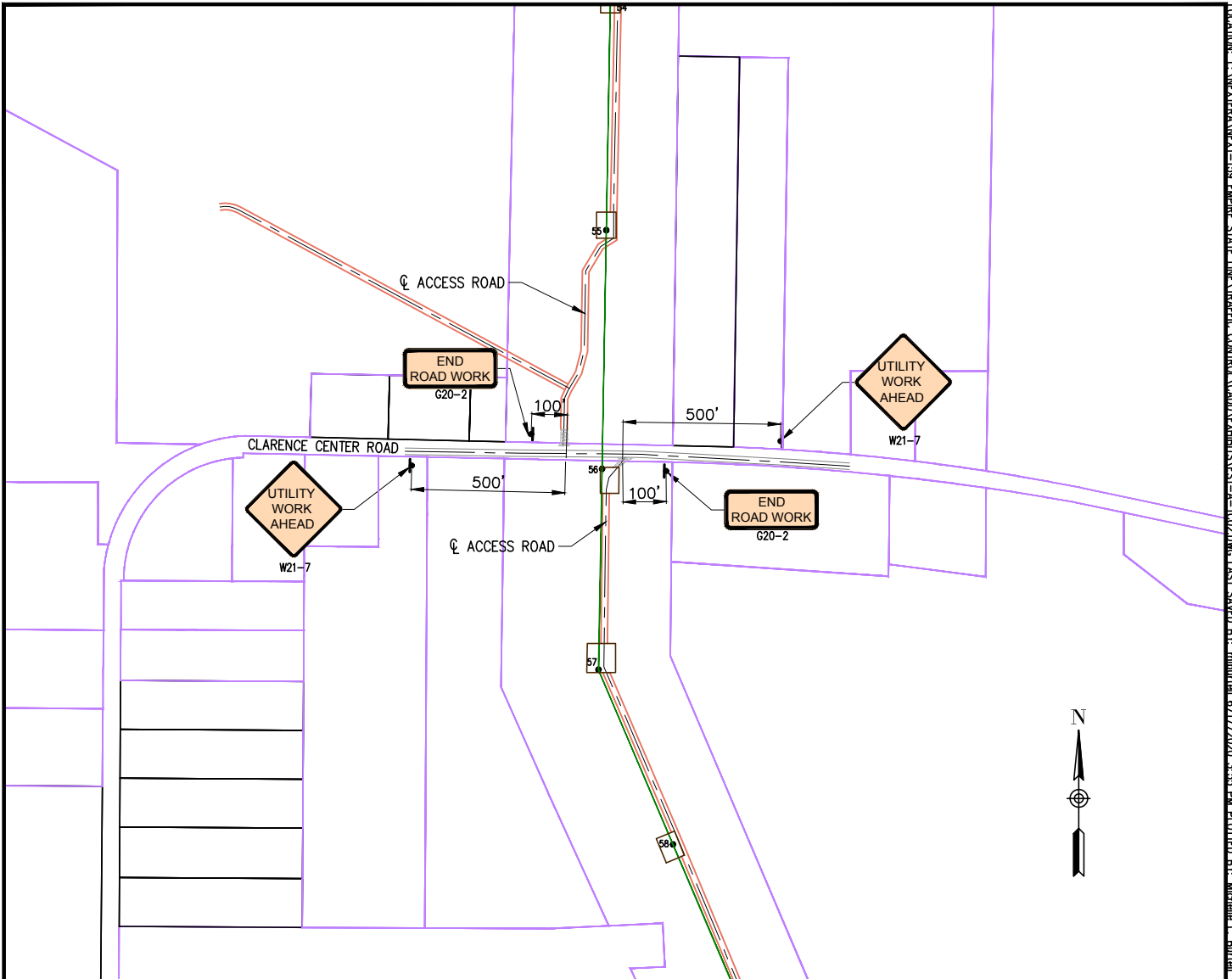
--- APPROXIMATE PROPERTY  
LINE OR HWY. BOUNDARY

--- TRANSMISSION LINE

#### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXT-159. EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



### CLARENCE CENTER ROAD ACCESS

NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

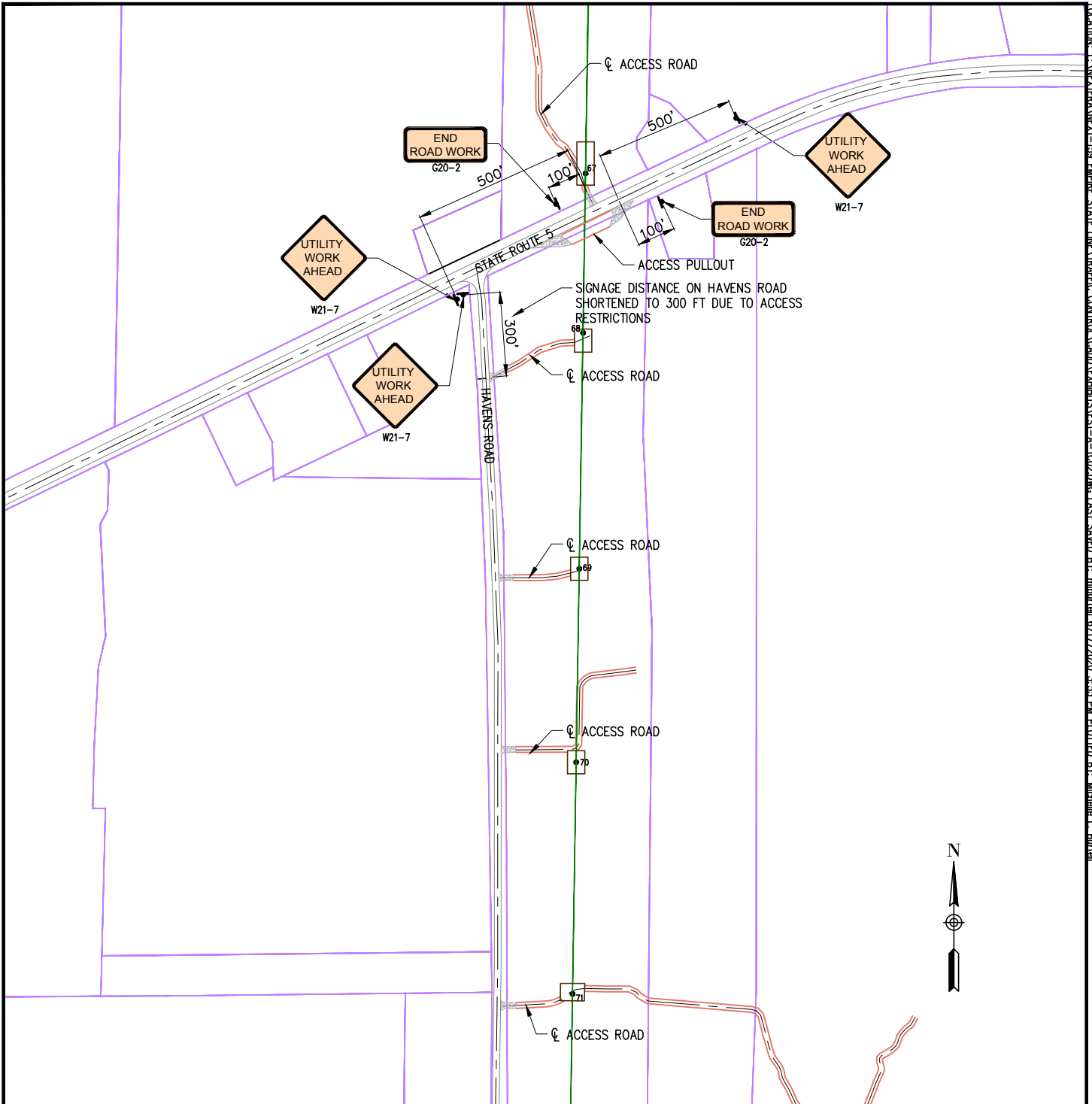
#### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME:	EST-A-TC02-8
REVISION NO :	A

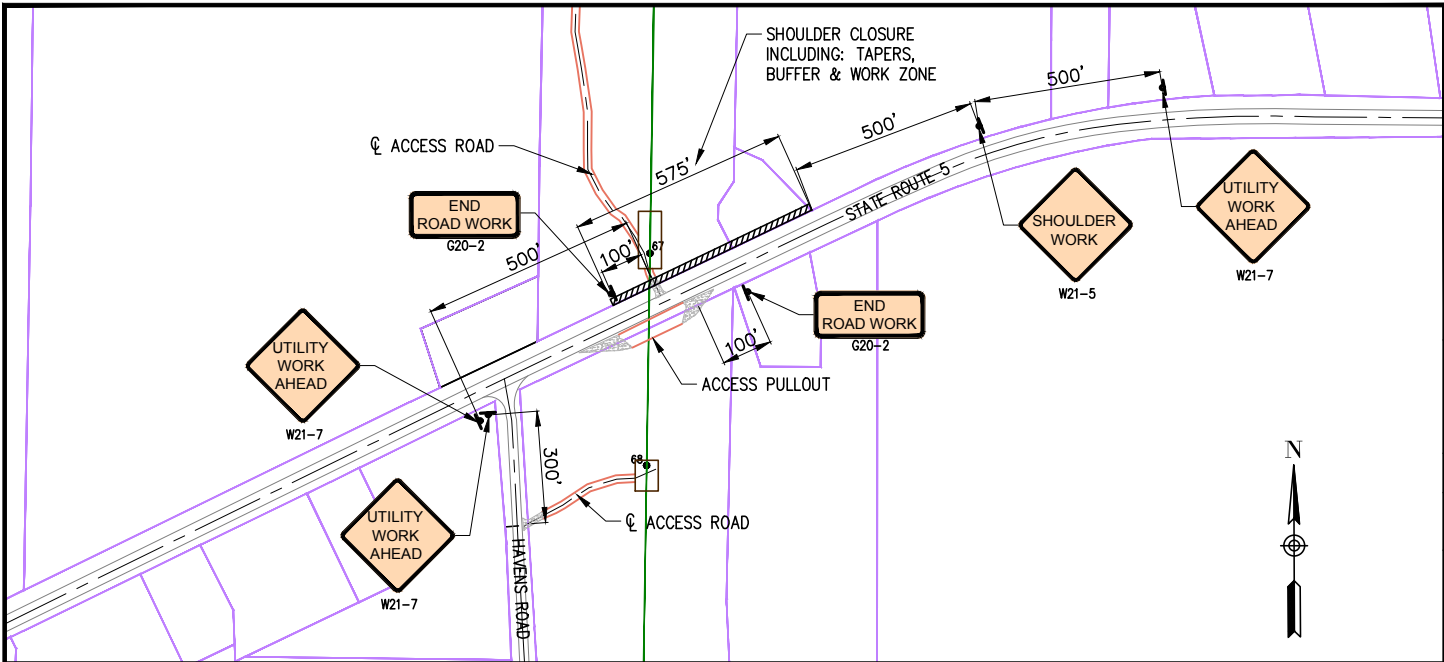


# STATE ROUTE 5/HAVENS ROAD ACCESS NOT TO SCALE

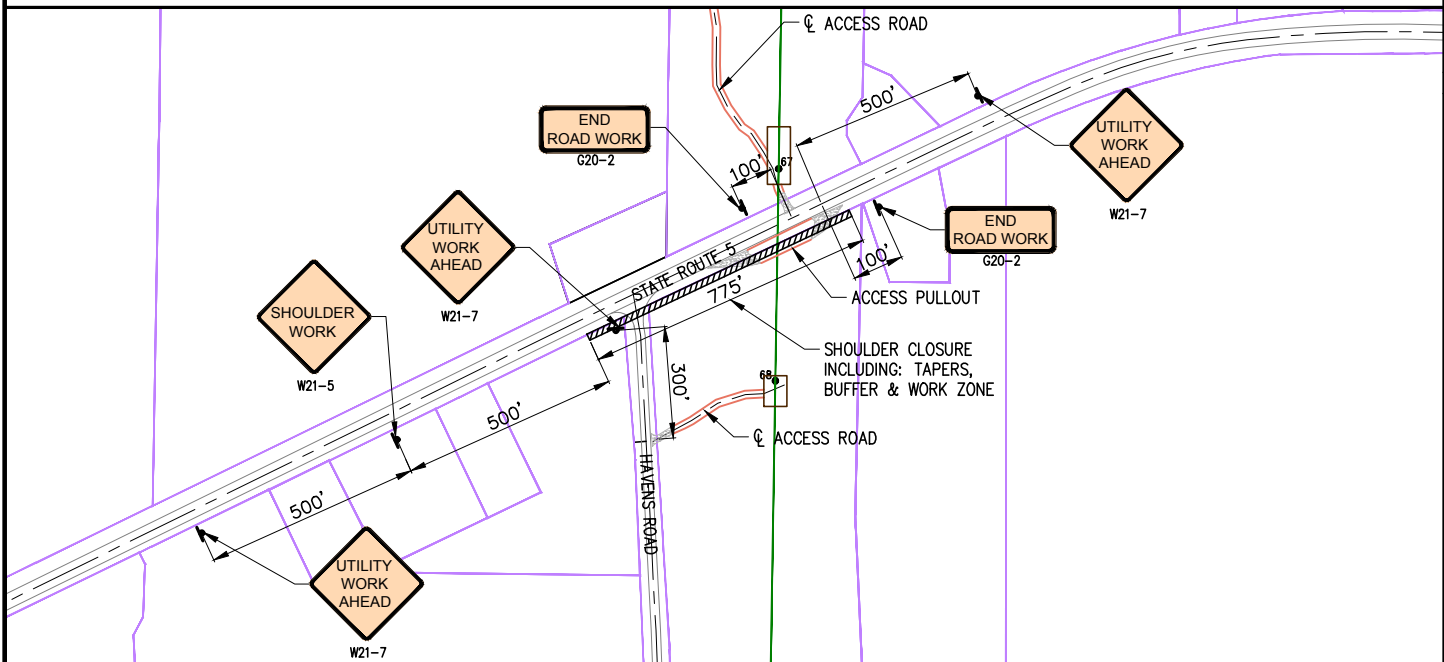
LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



STATE ROUTE 5 – NORTH SHOULDER CLOSURE  
NOT TO SCALE



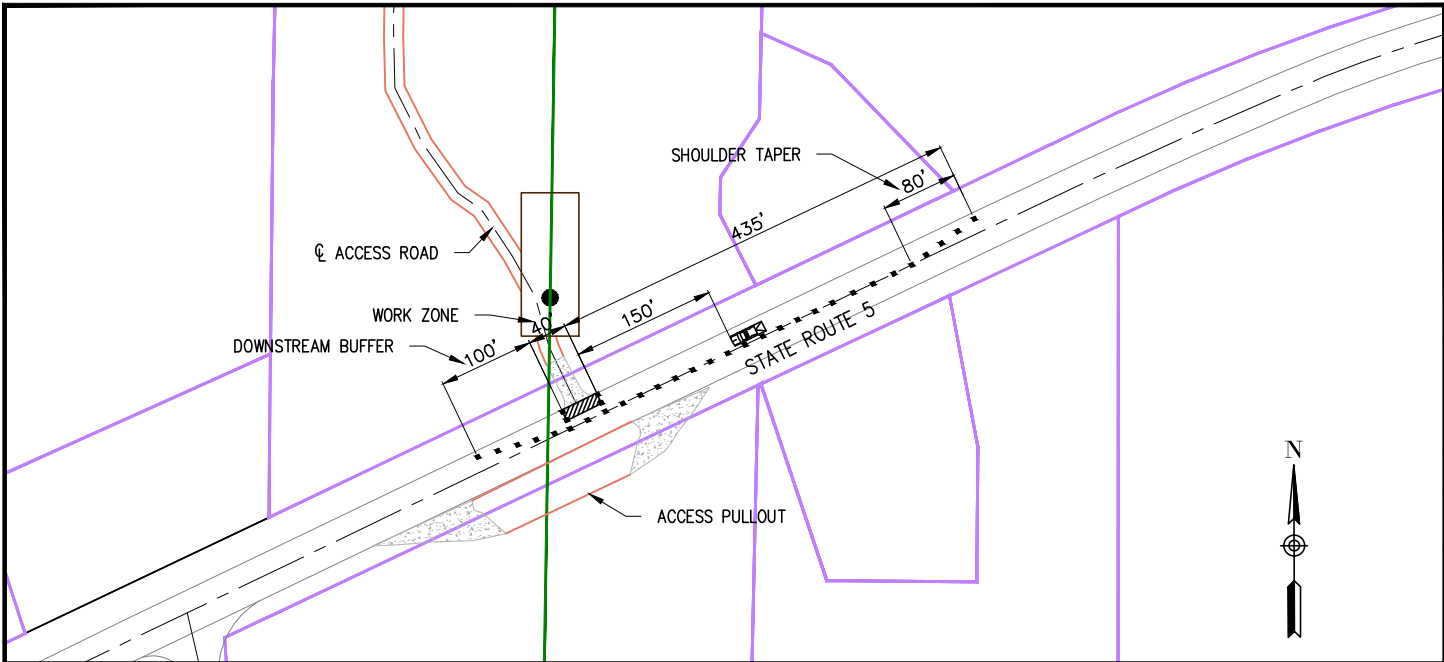
STATE ROUTE 5 – SOUTH SHOULDER CLOSURE  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

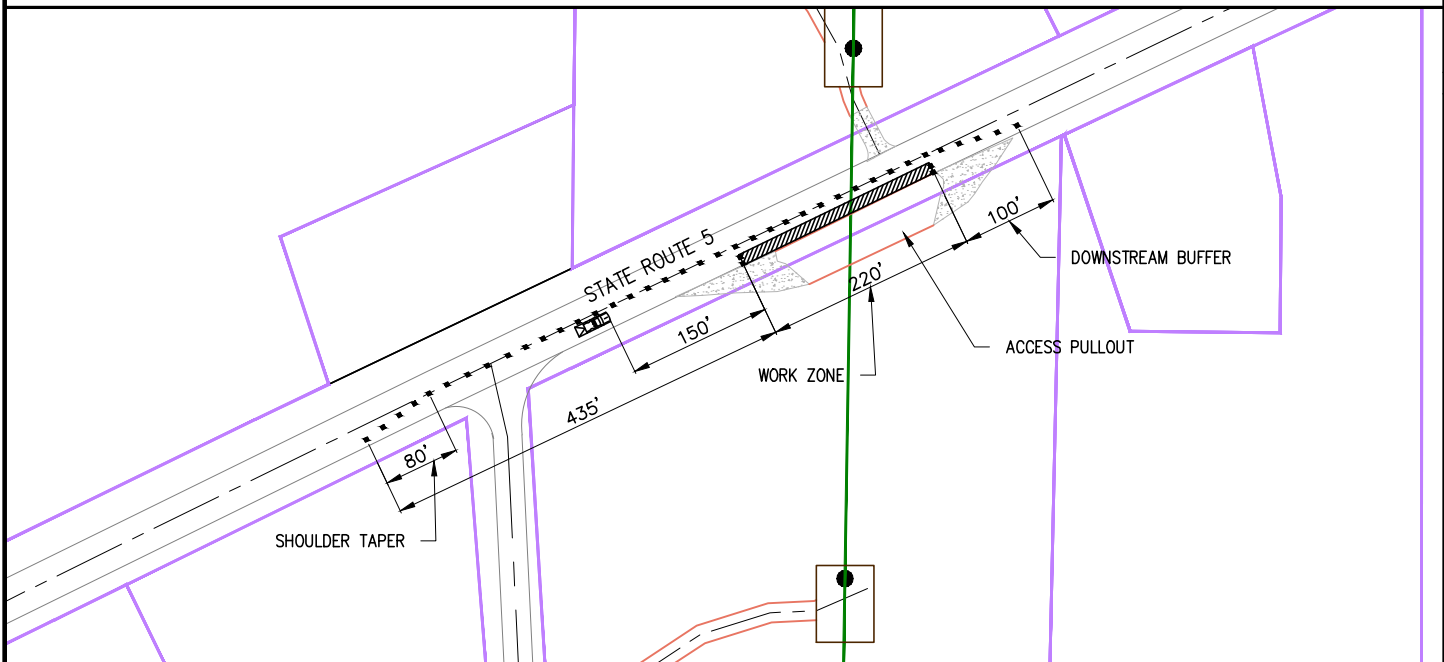
NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. TURN "UTILITY WORK AHEAD" SIGN ON EASTBOUND STATE ROUTE 5 FOR DURATION OF SOUTH SHOULDER CLOSURE & SIGN ON WESTBOUND STATE ROUTE FOR DURATION OF NORTH SHOULDER CLOSURE, RETURN SIGNS UPON COMPLETION OF CLOSURE.

LOCATION: I:\NEXTERA\NCTE-1199.EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-1004.DWG, LAST SAVED BY: mburtell, 6/18/2020, 8:44 AM PLOTTED BY: Michelle L. Bartell



**STATE ROUTE 5  
NORTH SHOULDER CLOSURE WORK ZONE**  
NOT TO SCALE

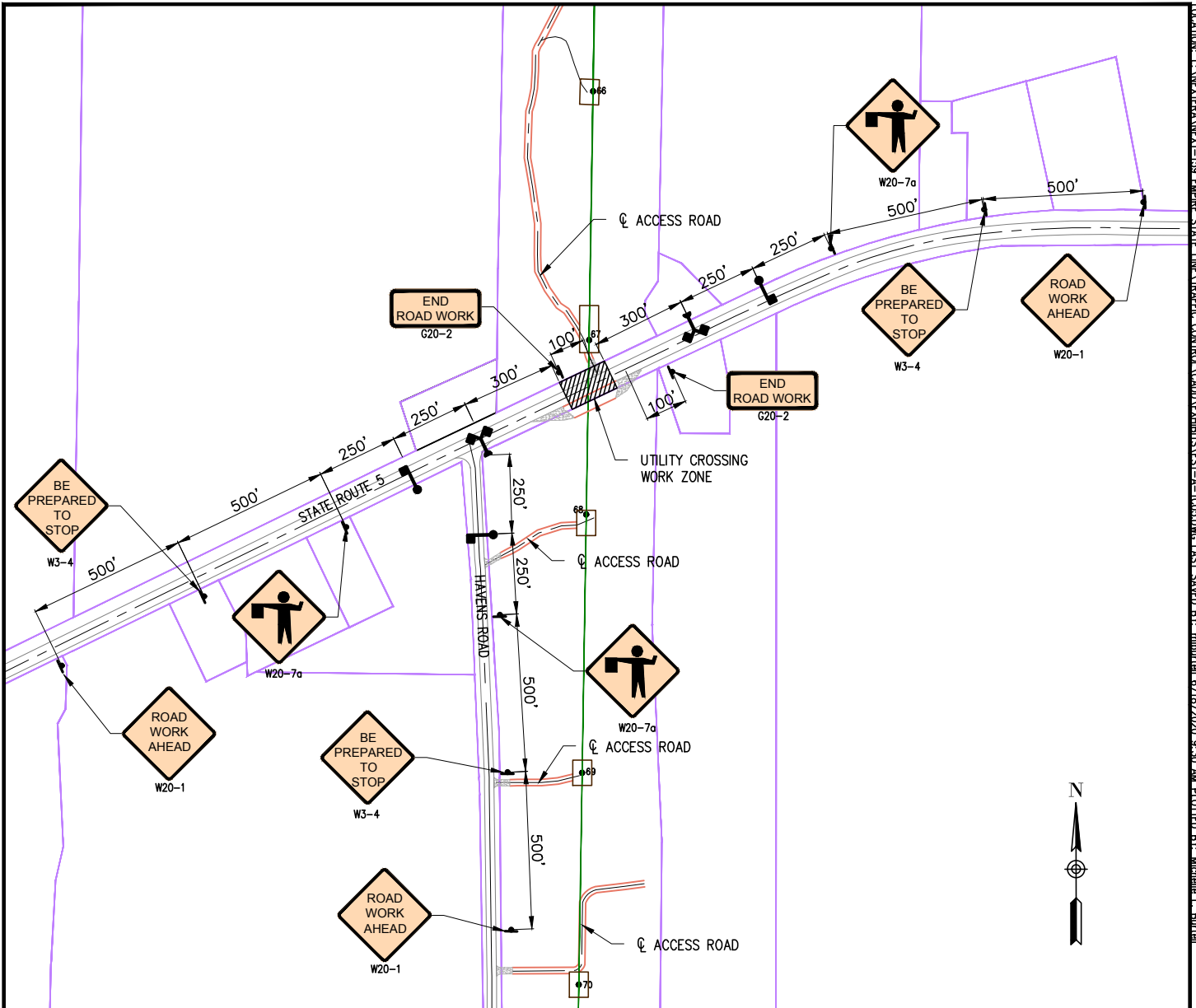


**STATE ROUTE 5  
SOUTH SHOULDER CLOSURE WORK ZONE**  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

**NOTES:**

1. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40'.
4. BARRIER VEHICLE SPACING IS: MIN. 100', MAX 150' FROM WORK ZONE.



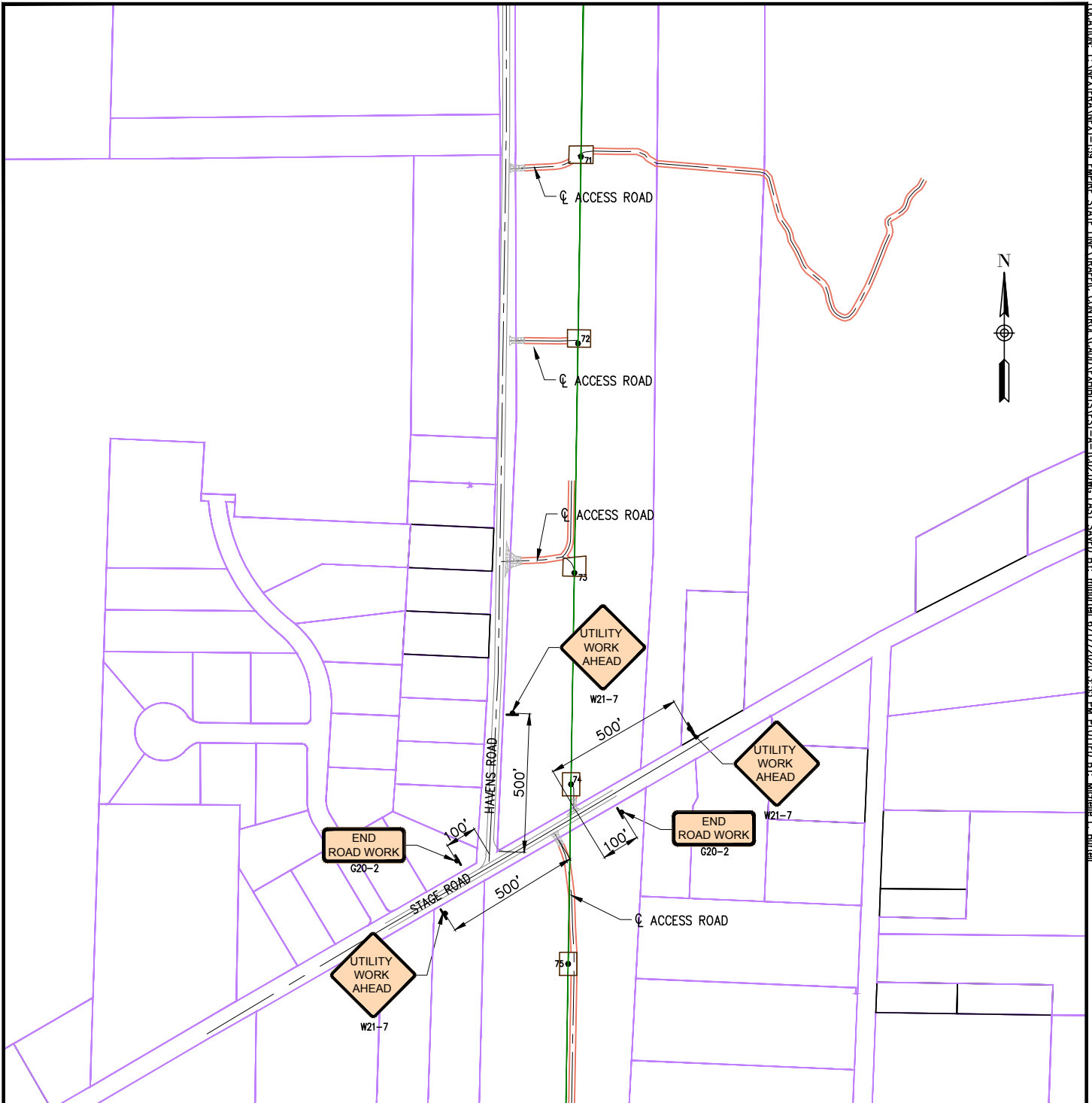
## STATE ROUTE 5 – ROAD CLOSURE SIGNAGE

NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE
	FLAGGER
	FLAG TREE

### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.



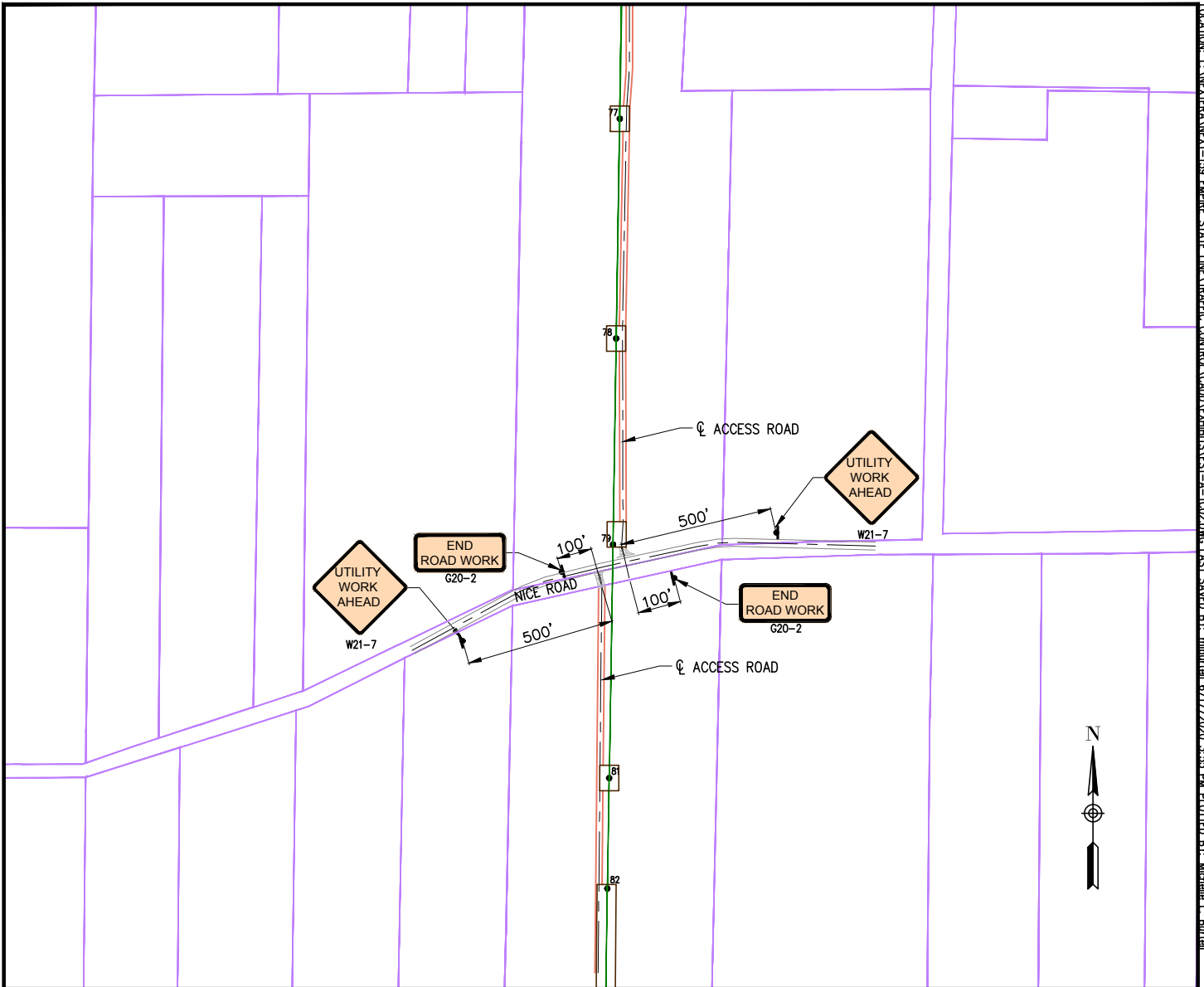
## STAGE ROAD/HAVENS ROAD ACCESS

NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



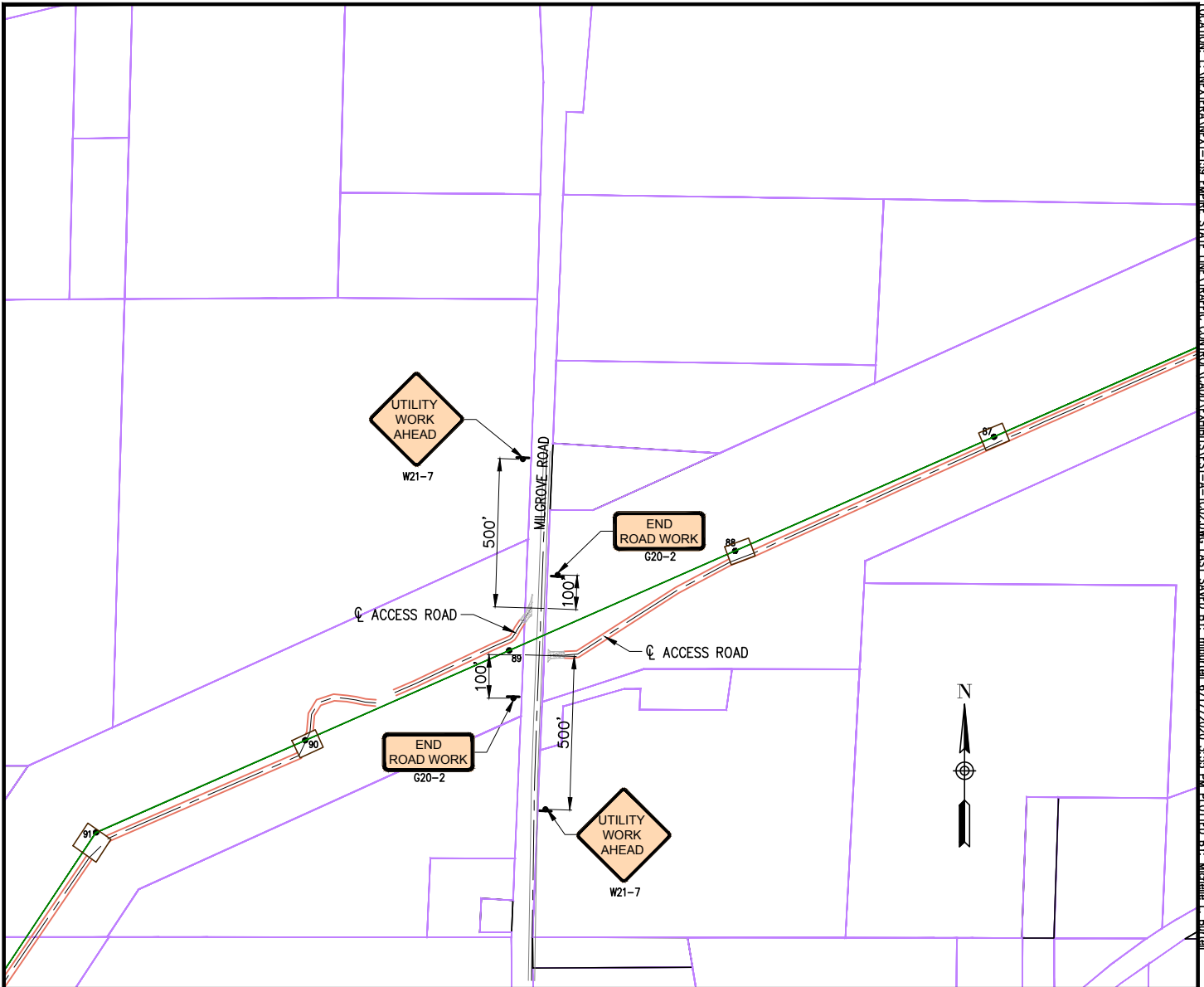
NICE ROAD ACCESS  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXTE-159. EMPIRE STATE LINE\TRAFFIC CONTROL\CAO\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell

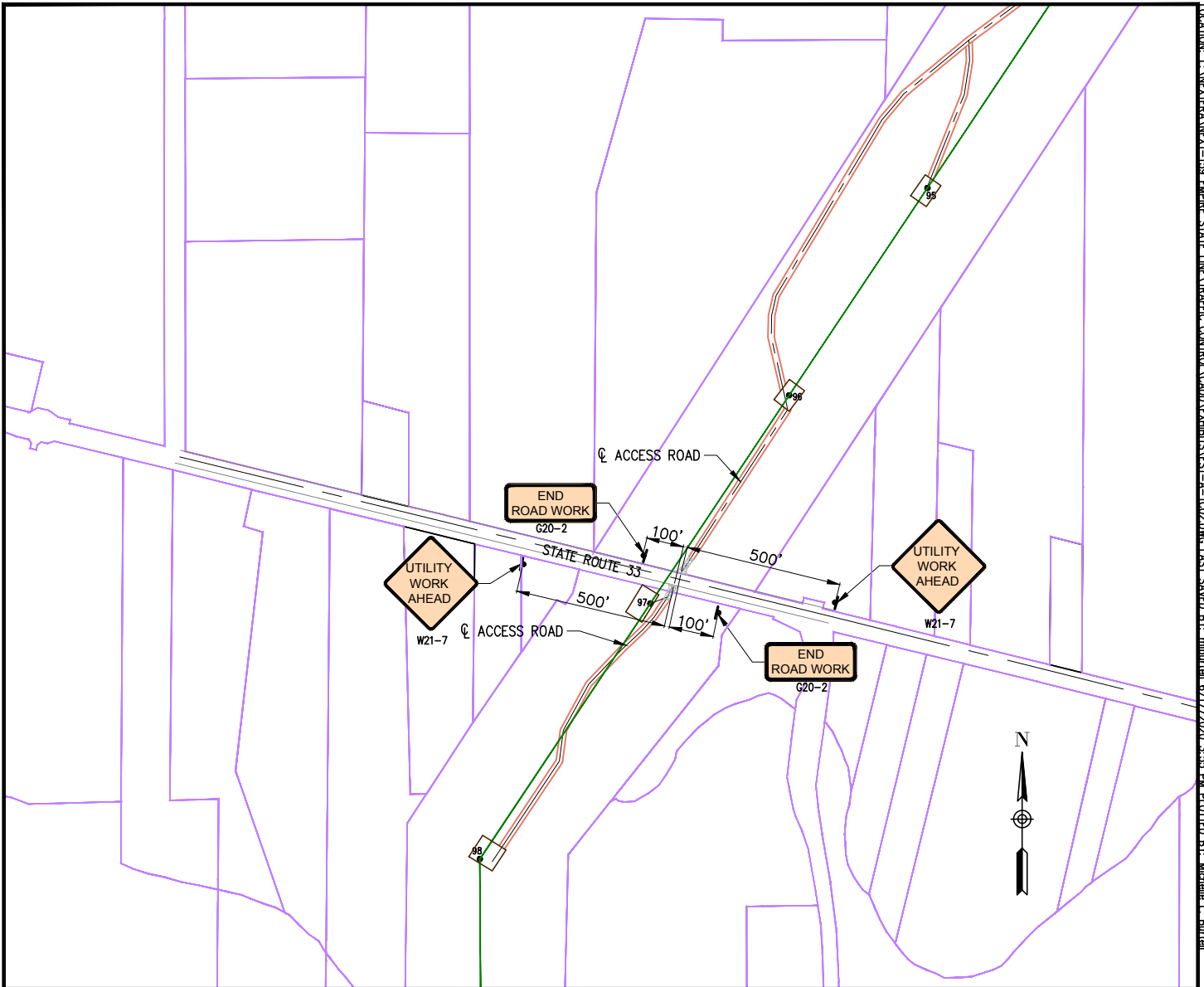


MILGROVE ROAD ACCESS  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

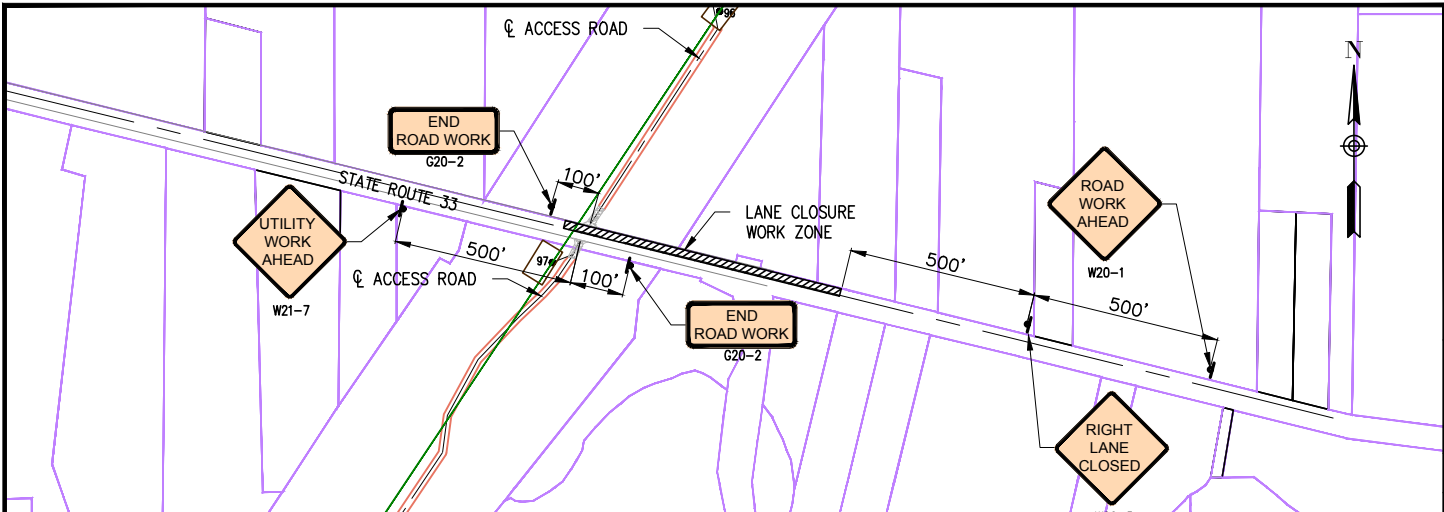


# STATE ROUTE 33 ACCESS NOT TO SCALE

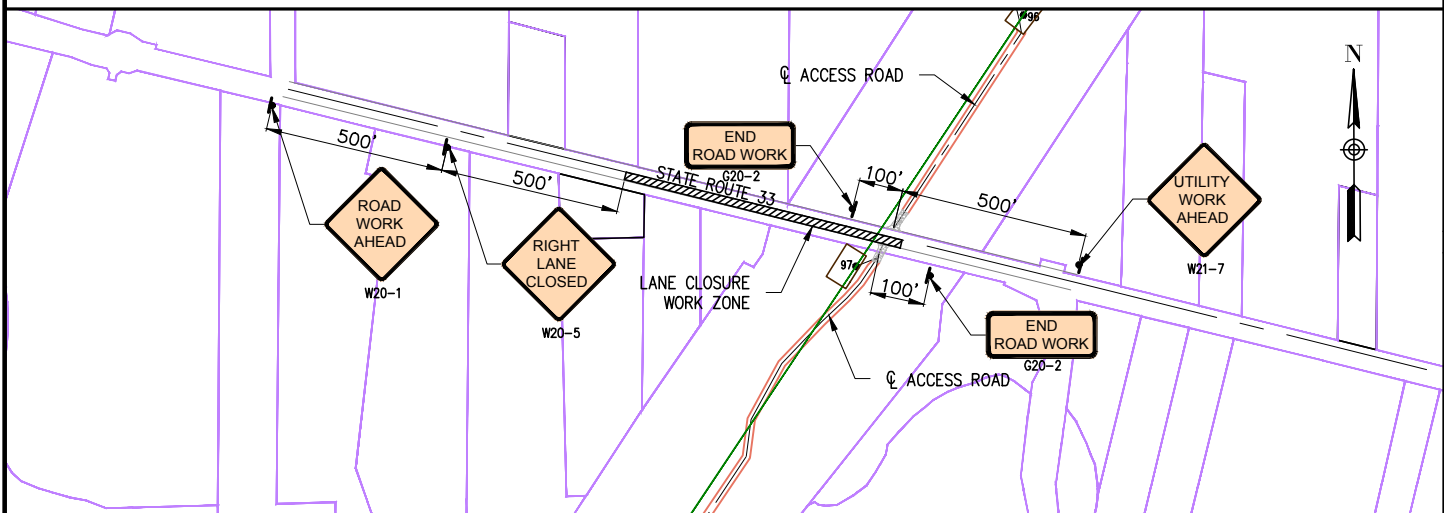
LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

- SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
- SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
- SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
- SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



STATE ROUTE 33 – NORTH LANE CLOSURE SIGNAGE  
NOT TO SCALE



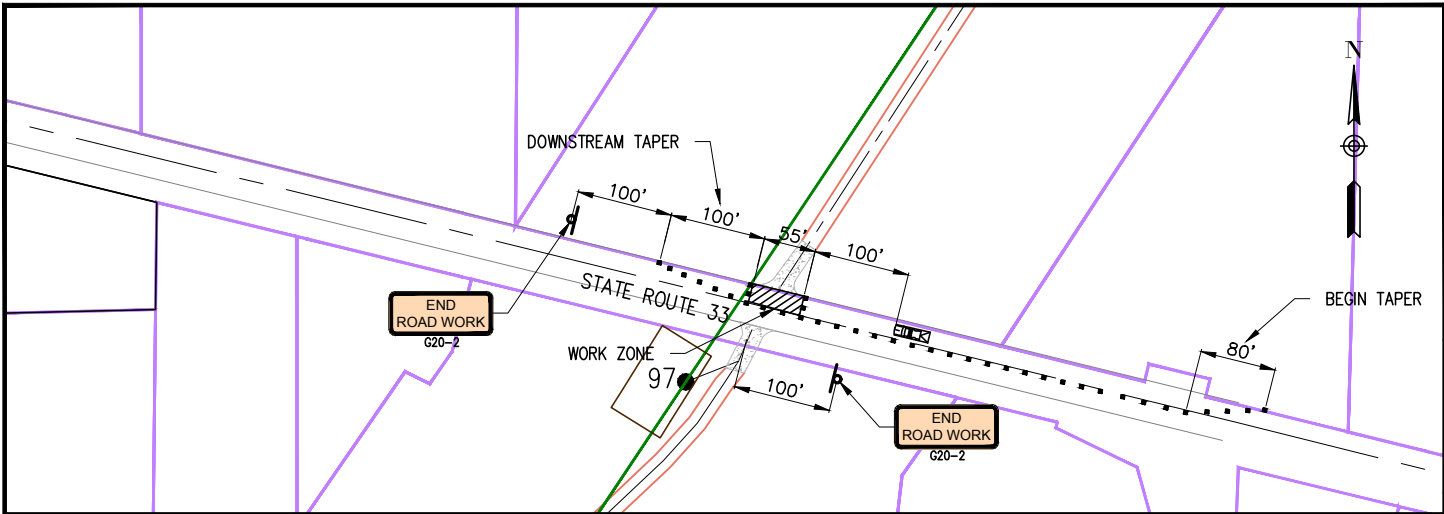
STATE ROUTE 33 – SOUTH LANE CLOSURE SIGNAGE  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

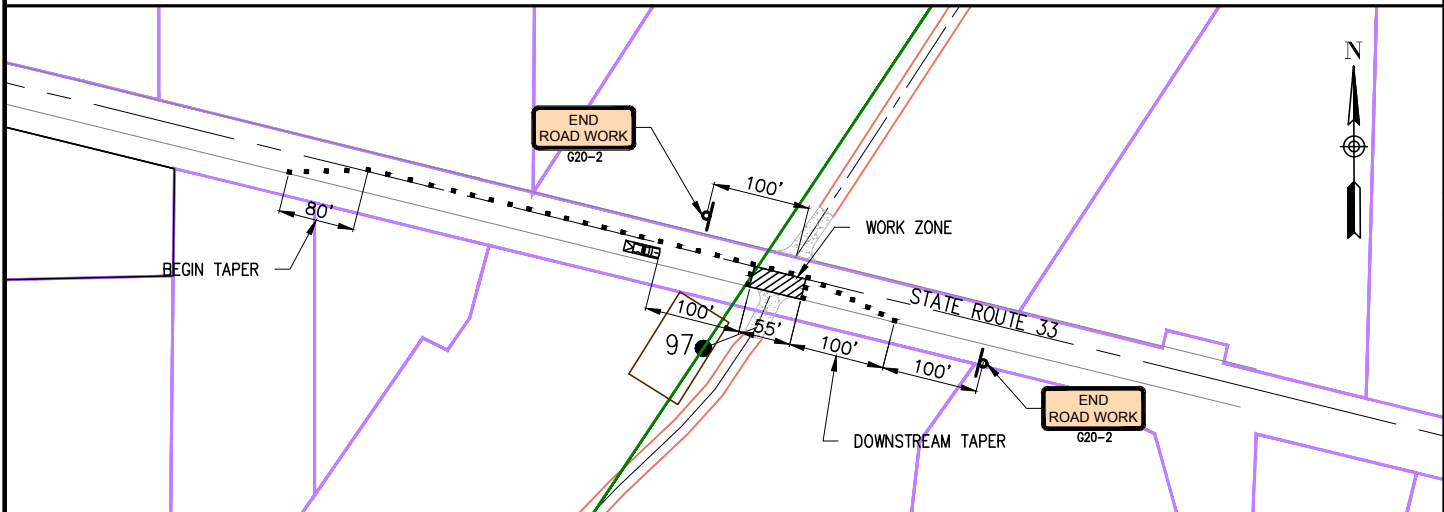
NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-4 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.

LOCATION: I:\NEXTERA\NEXTERA-1199 EMPIRE STATE LINE\TRAFFIC CONTROL\CA001\EXHIBITS\EST-A-1007.DWG, LAST SAVED BY: mburtell, 6/18/2020, 11:48 AM PLOTTED BY: Michelle L. Burdell



STATE ROUTE 33  
NORTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE

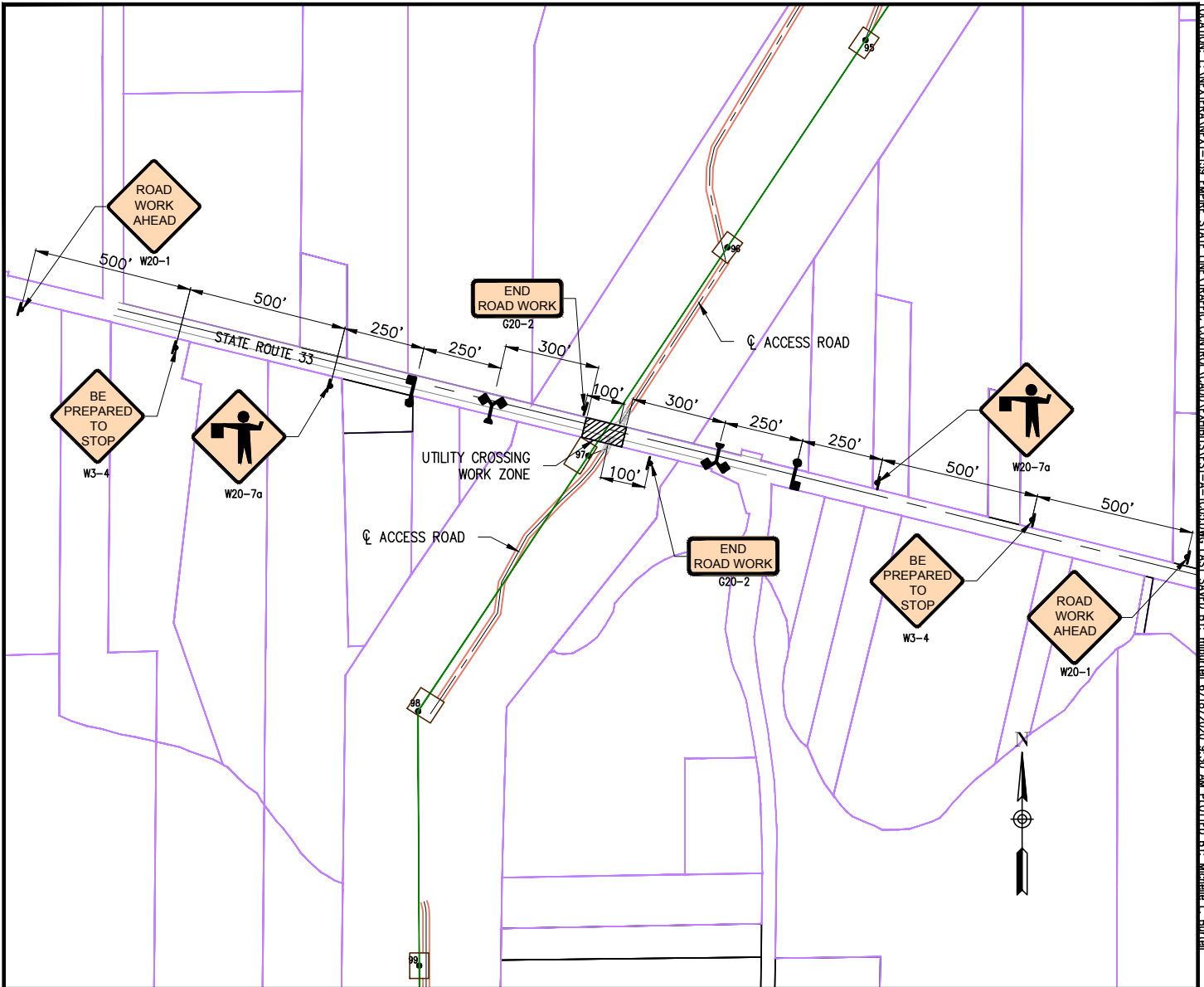


STATE ROUTE 33  
SOUTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-4 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.



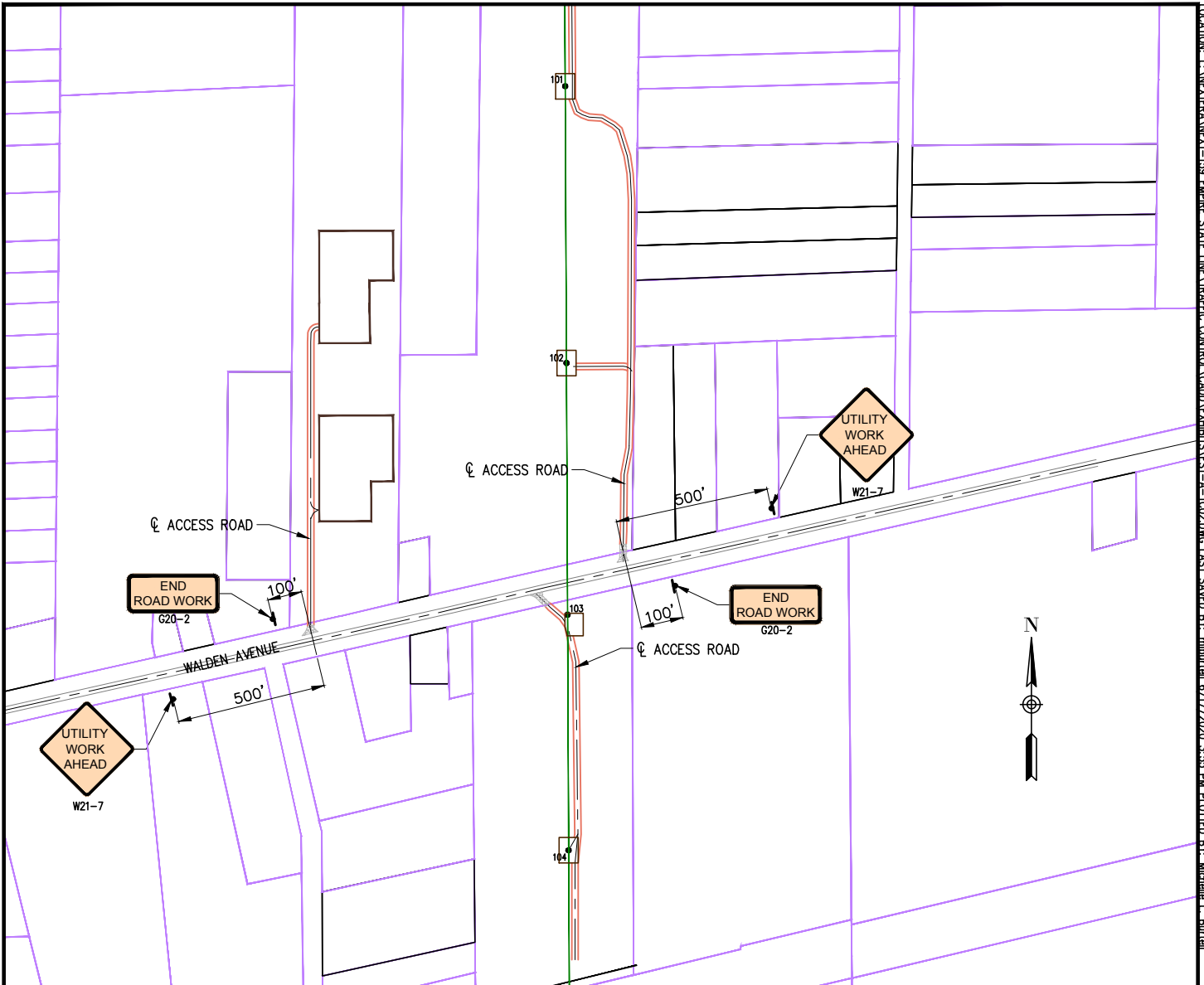
STATE ROUTE 33 – ROAD CLOSURE SIGNAGE  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE
	FLAGGER
	FLAG TREE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.

LOCATION: I:\NEXTERA\NEXT-159-EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



## STATE ROUTE 952 ACCESS

NOT TO SCALE

### LEGEND



SIGN

--- CL ACCESS ROAD

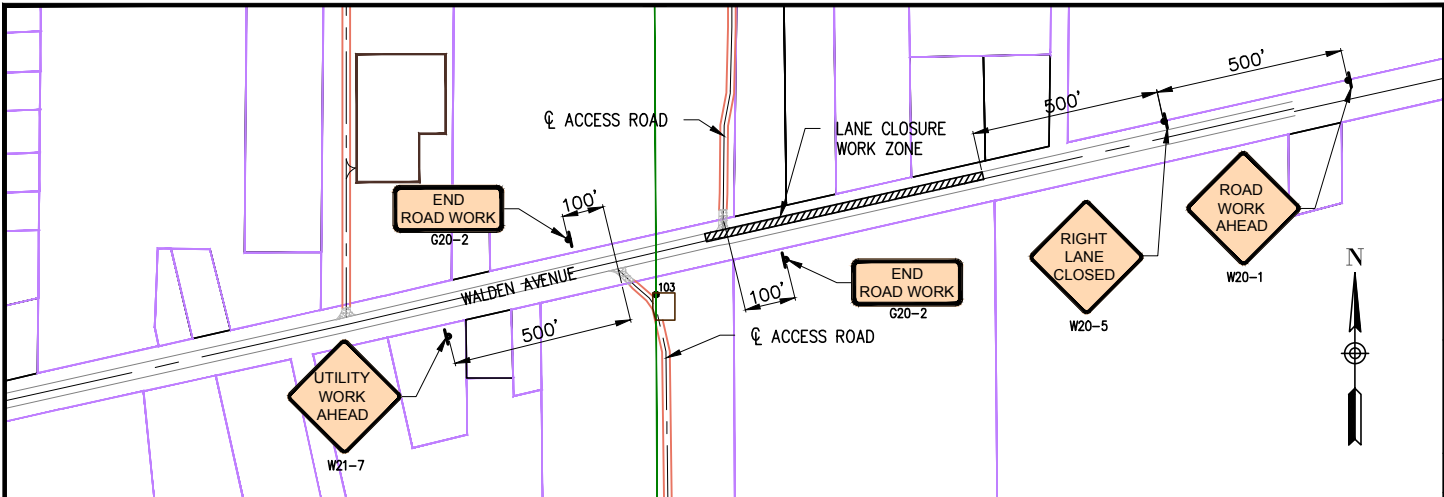
--- APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY

--- TRANSMISSION LINE

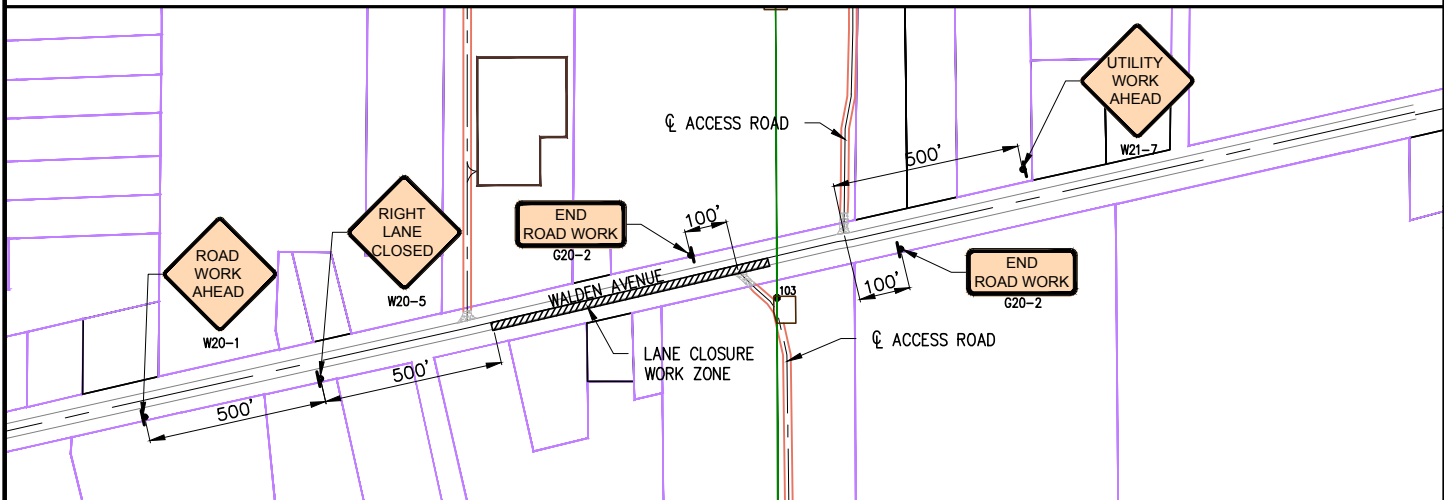
### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NCT-119, EMPIRE STATE LINE TRAFFIC CONTROL\CA00\EXHIBITS\EST-A-TC06.DWG, LAST SAVED BY: mburtell, 6/18/2020 9:49 AM PLOTTED BY: Michelle L. Burtell



STATE ROUTE 952 – NORTH LANE CLOSURE SIGNAGE  
NOT TO SCALE

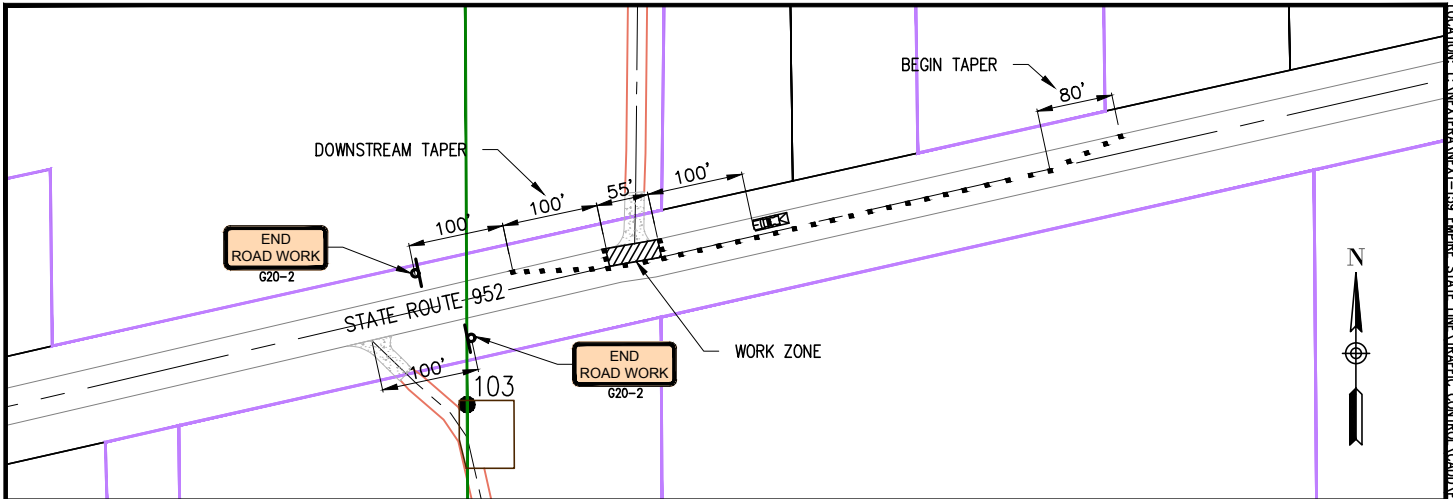


STATE ROUTE 952 – SOUTH LANE CLOSURE SIGNAGE  
NOT TO SCALE

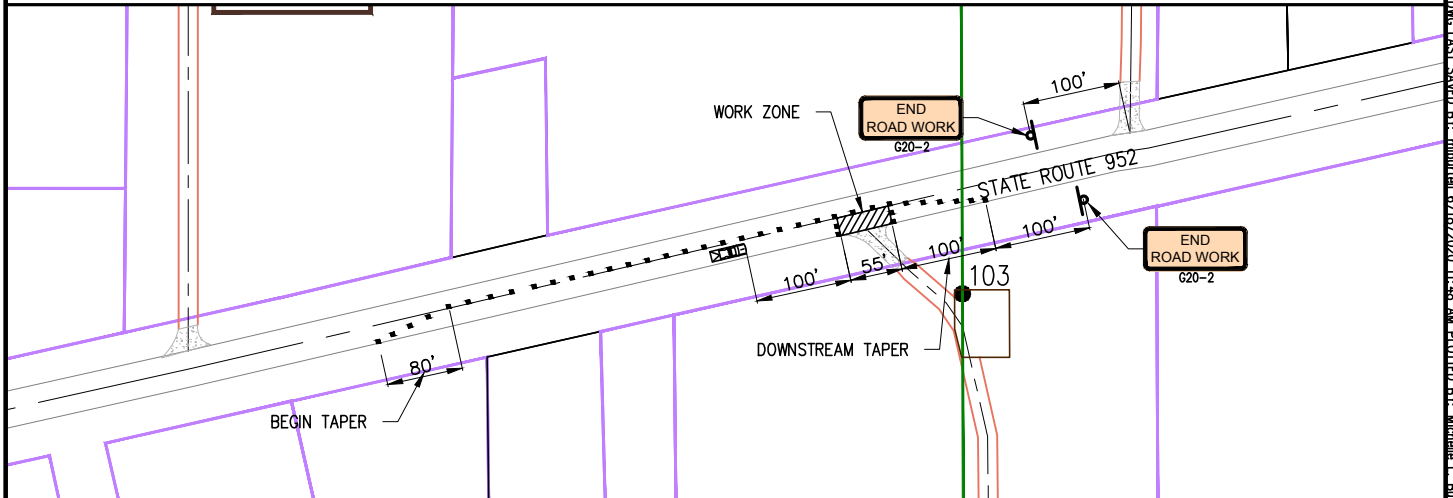
LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-4 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.



STATE ROUTE 952  
NORTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE



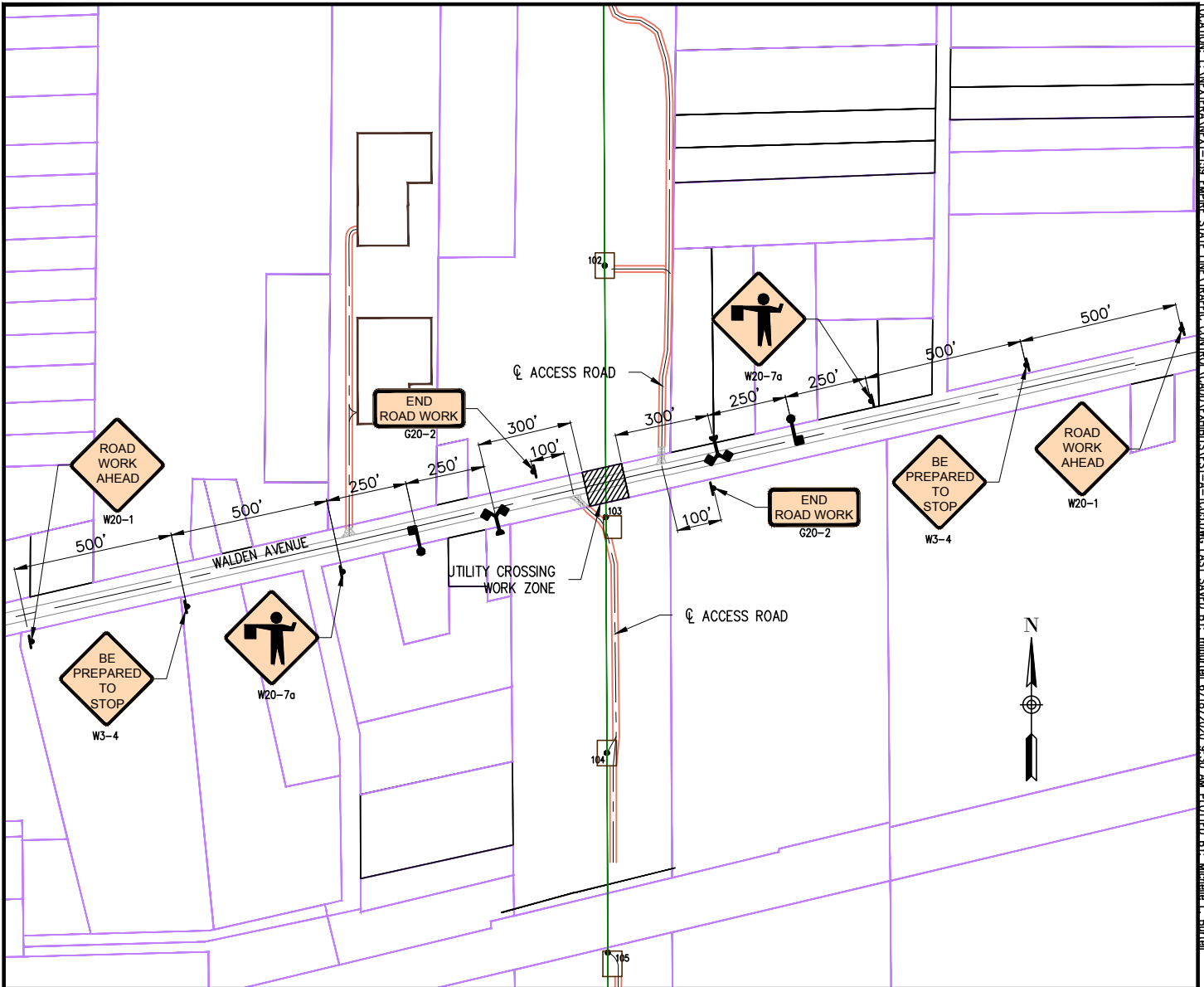
STATE ROUTE 952  
SOUTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-4 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.

LOCATION: I-190 EXHIBIT A-190-1, EMPIRE STATE LINE TRAFFIC CONTROL (A-190-1) EXHIBIT A-190-1, LAST SAVED BY: mburtell, 6/18/2020, 3:30 AM PLOTTED BY: Michelle L. Burtell



## STATE ROUTE 952 – ROAD CLOSURE SIGNAGE

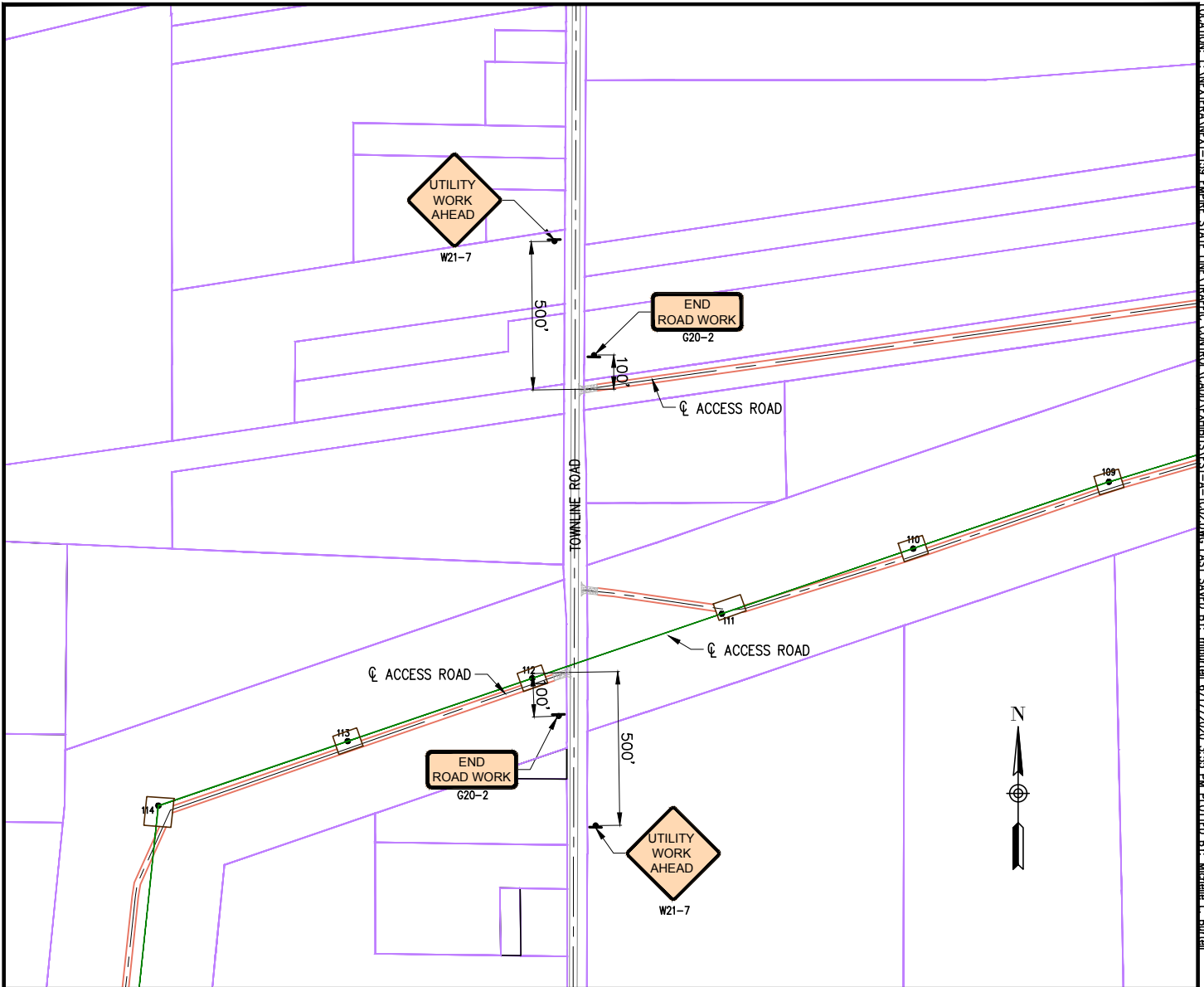
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE
	FLAGGER
	FLAG TREE

### NOTES:

- SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
- SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.
- TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.

LOCATION: 1. NEXTERA/ECTE-189, EMPIRE STATE LINE TRAFFIC CONTROL (CADD) EXHIBITS/EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



### TOWNLINE ROAD ACCESS

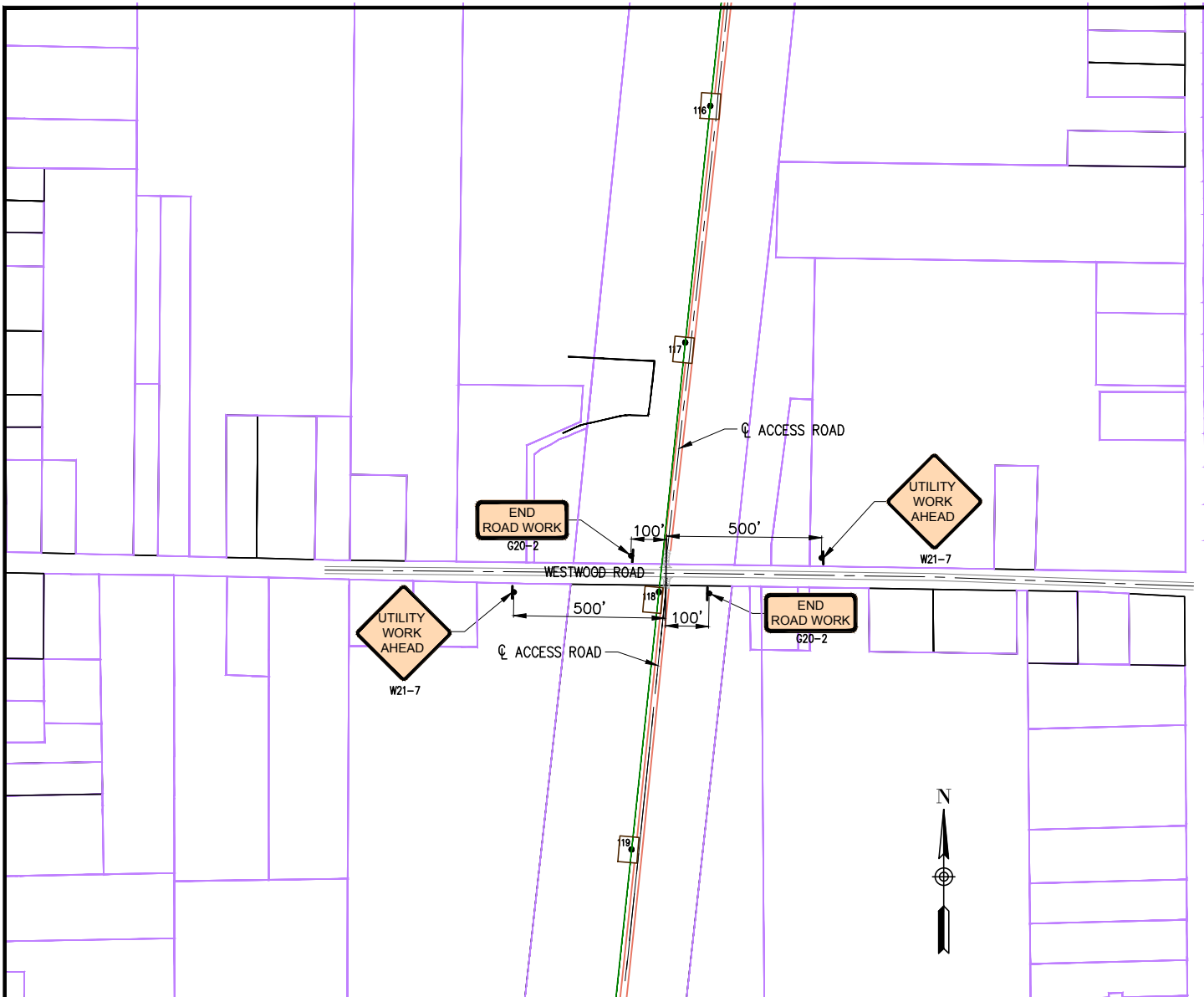
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

#### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXT-1199 EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



# WESTWOOD ROAD ACCESS NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

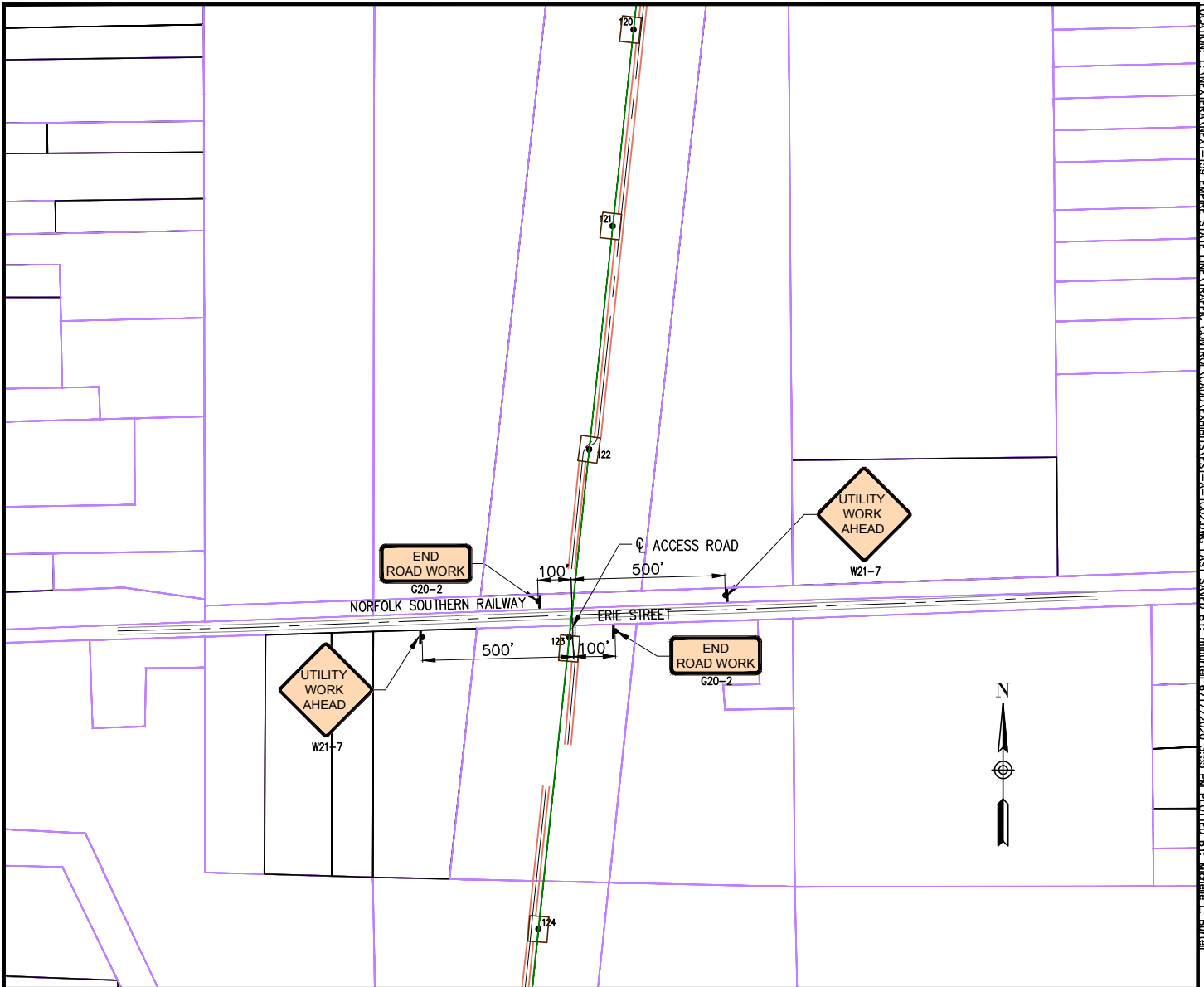
- SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
- SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
- SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
- SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME: EST-A-TC02-17	REVISION NO : A

LOCATION: I:\NEXTERA\NEXTE-189 EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



### ERIE STREET ACCESS

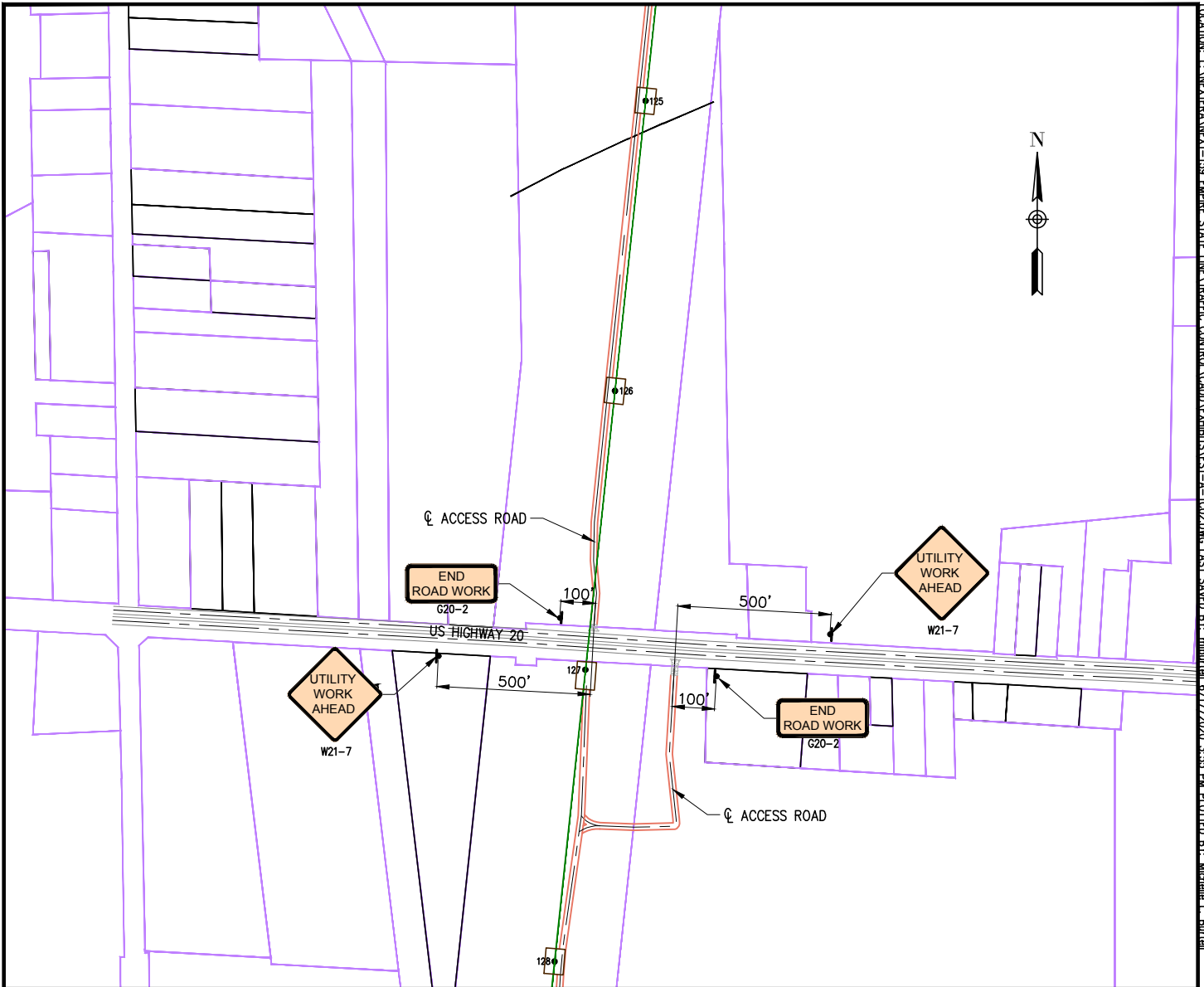
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

#### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXT-1199.EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



## US HIGHWAY 20 ACCESS

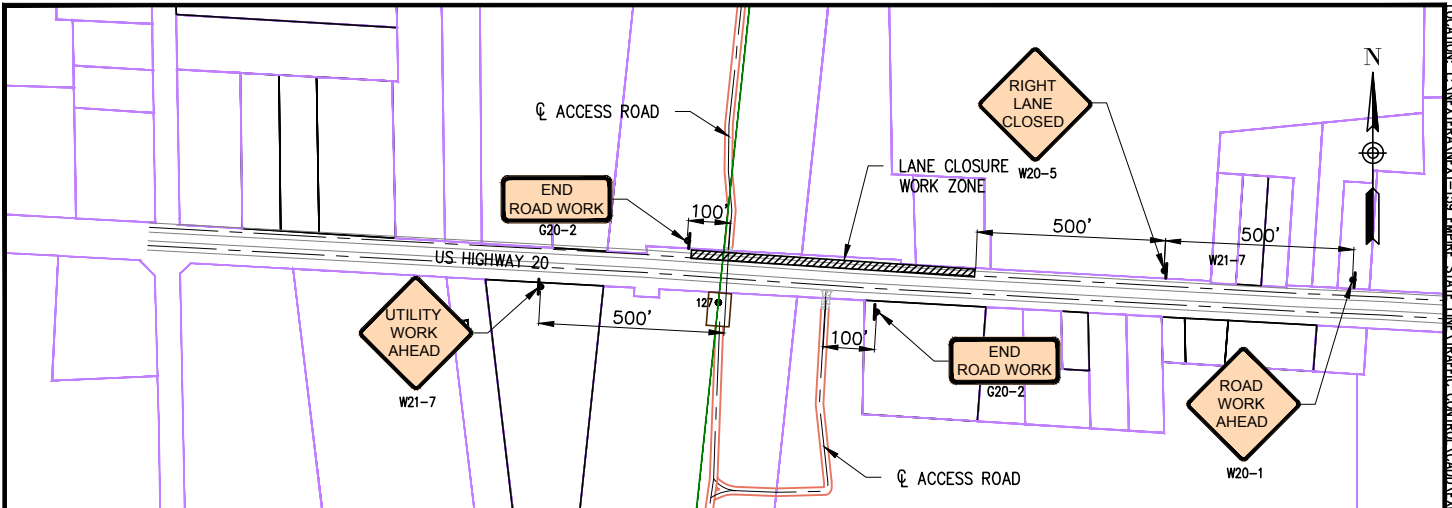
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

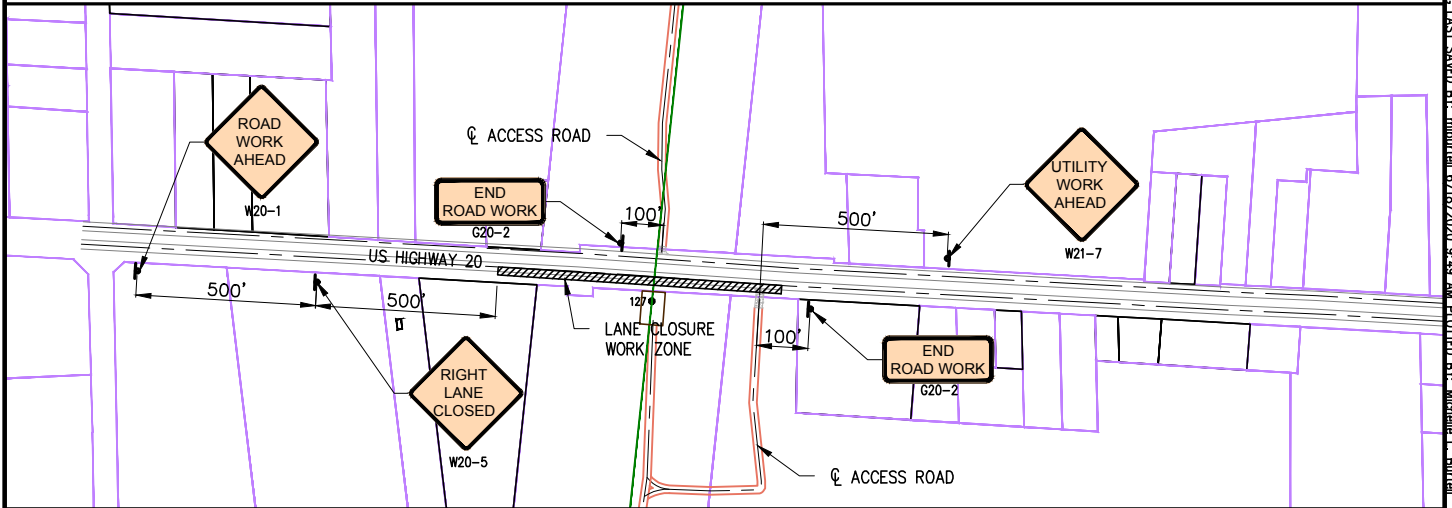
### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-5 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

LOCATION: I:\NEXTERA\NEXT-119. EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC06.DWG, LAST SAVED BY: mburtell, 6/18/2020, 9:49 AM PLOTTED BY: Michelle L. Bartell



US HIGHWAY 20 – NORTH LANE CLOSURE SIGNAGE  
NOT TO SCALE

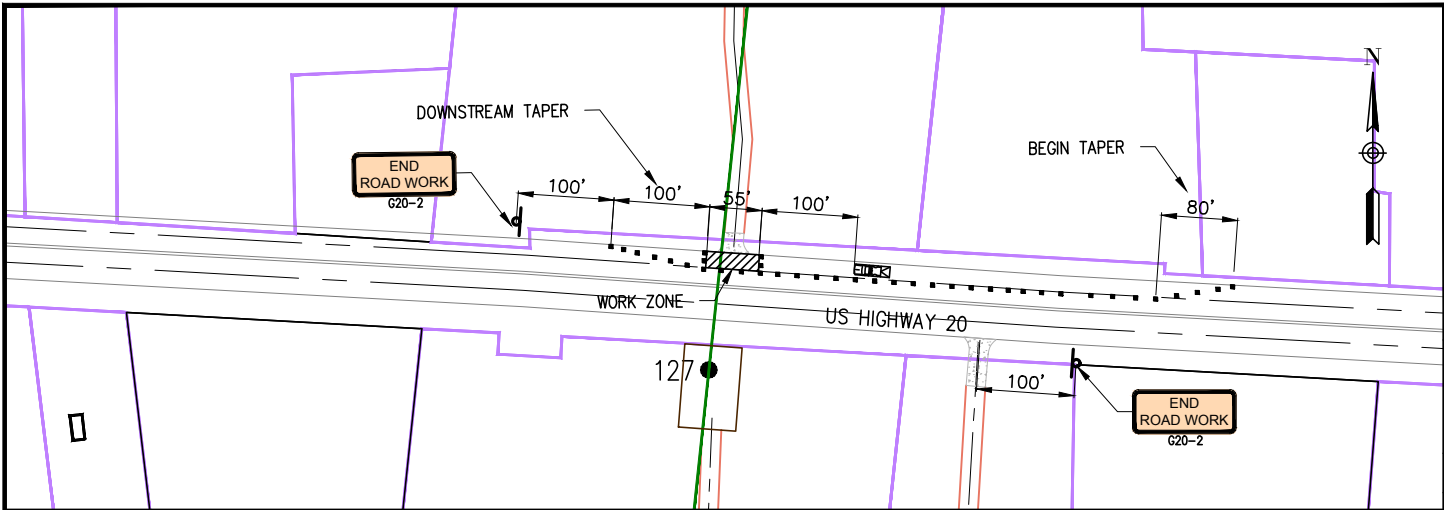


US HIGHWAY 20 – SOUTH LANE CLOSURE SIGNAGE  
NOT TO SCALE

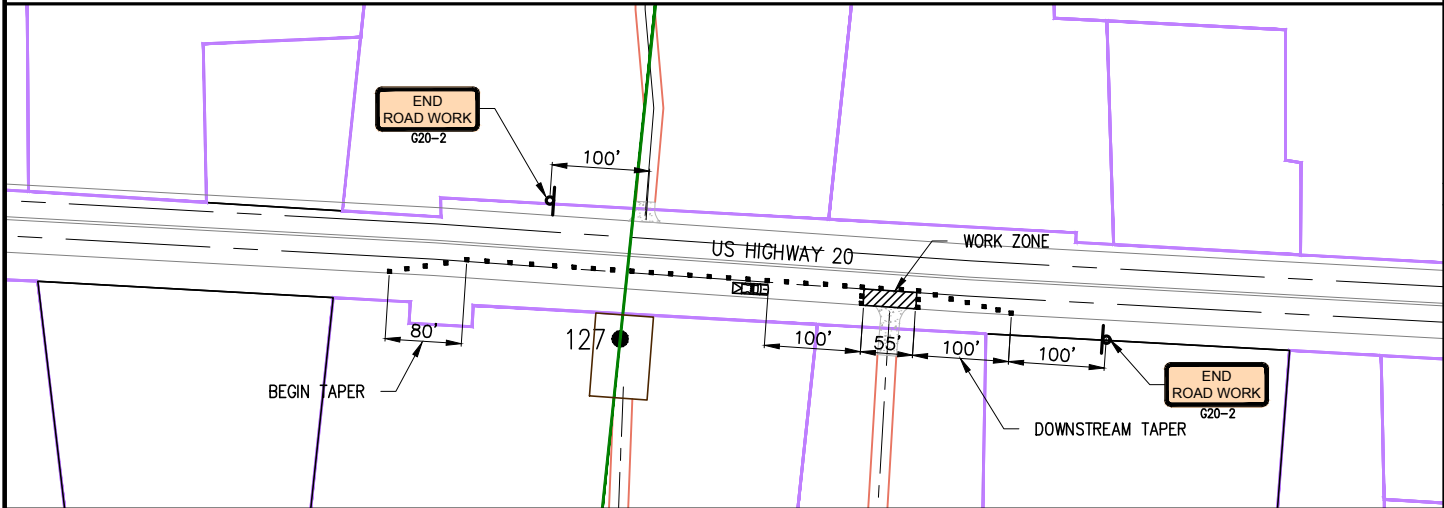
LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-5 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.



US HIGHWAY 20  
NORTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE

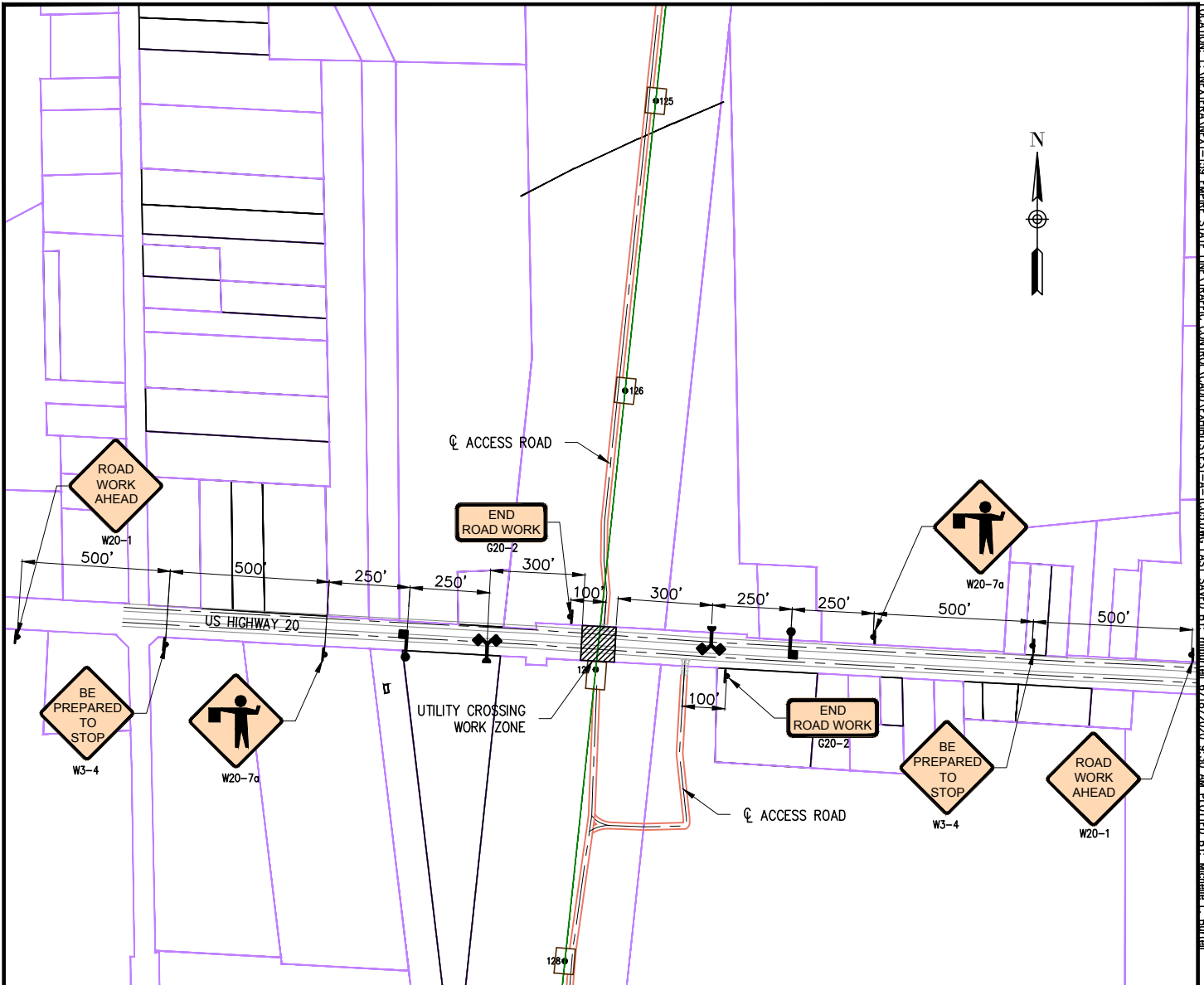


US HIGHWAY 20  
SOUTH LANE CLOSURE WORK ZONE DIAGRAM  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-5 FOR LANE CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.



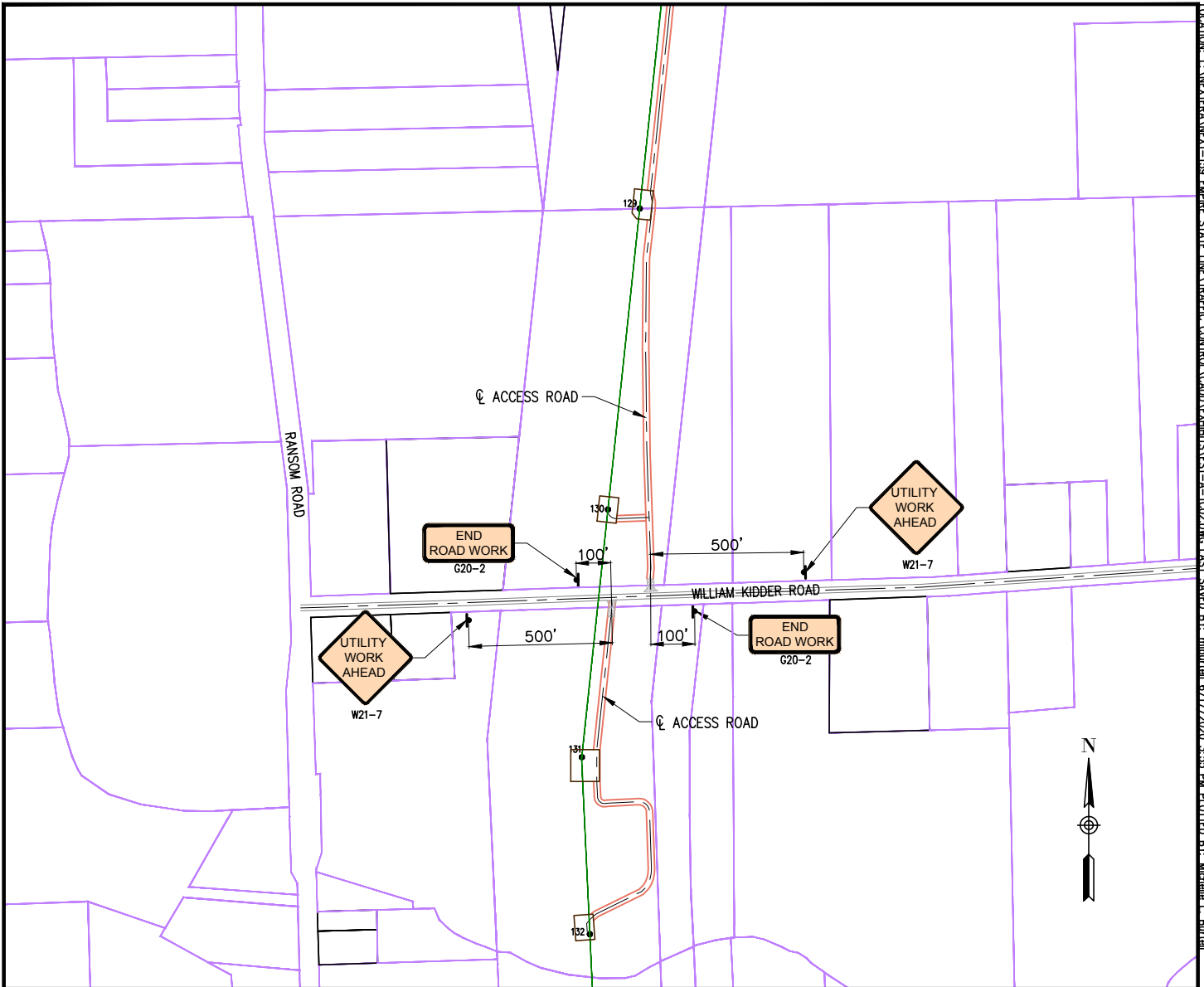
US HIGHWAY 20 – ROAD CLOSURE SIGNAGE  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE
	FLAGGER
	FLAG TREE





NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.

LOCATION: I:\NEXTERA\NEXT-159 EMPIRE STATE LINE\TRAFFIC CONTROL\CAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



**WILLIAM KIDDER ACCESS**  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

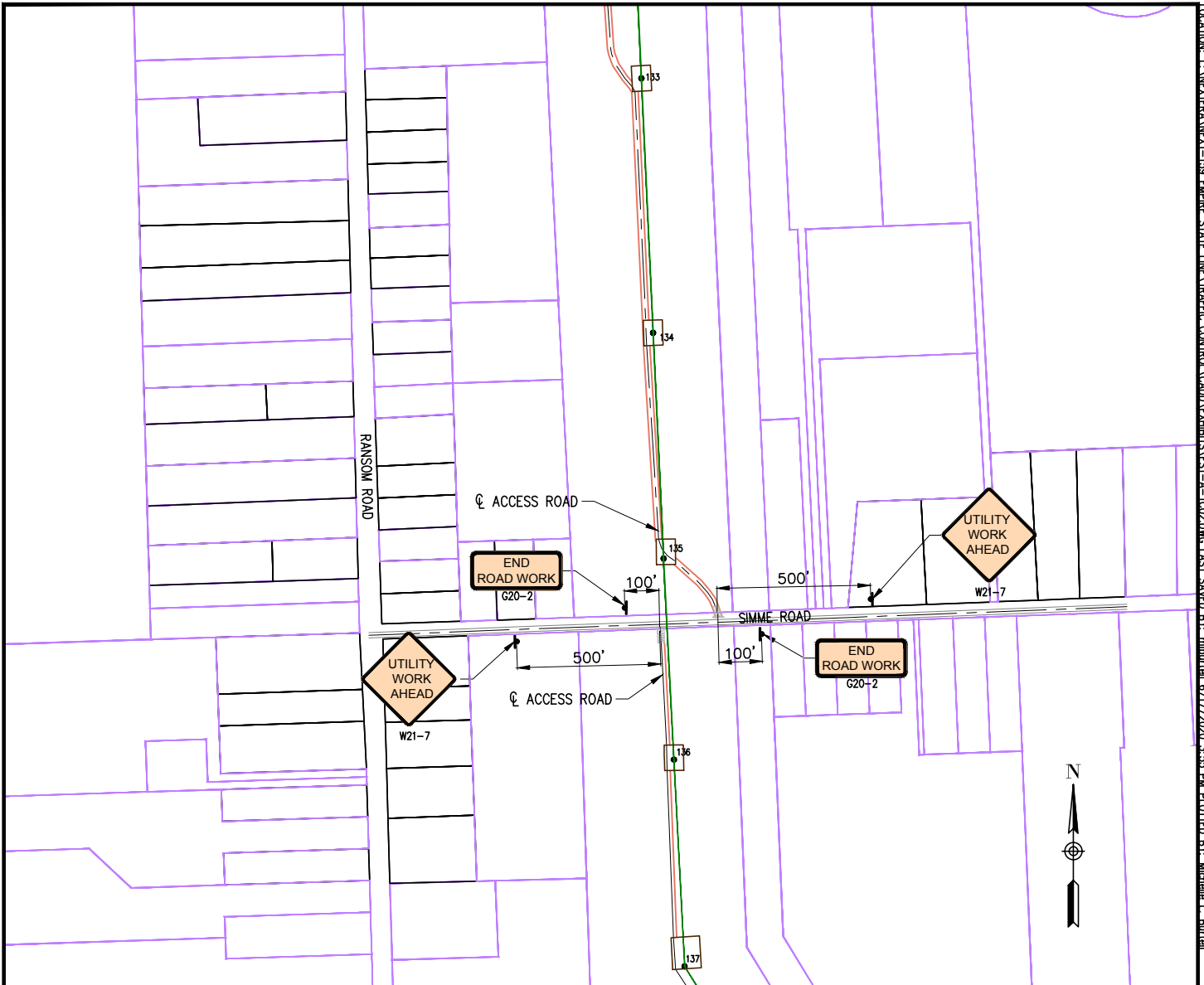
1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME: EST-A-TC02-20	REVISION NO : A

LOCATION: I:\NEXTERA\NEXT-159. EMPIRE STATE LINE\TRAFFIC CONTROL\CADD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



### SIMME ROAD ACCESS

NOT TO SCALE

LEGEND	
	SIGN
	Q ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

#### NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



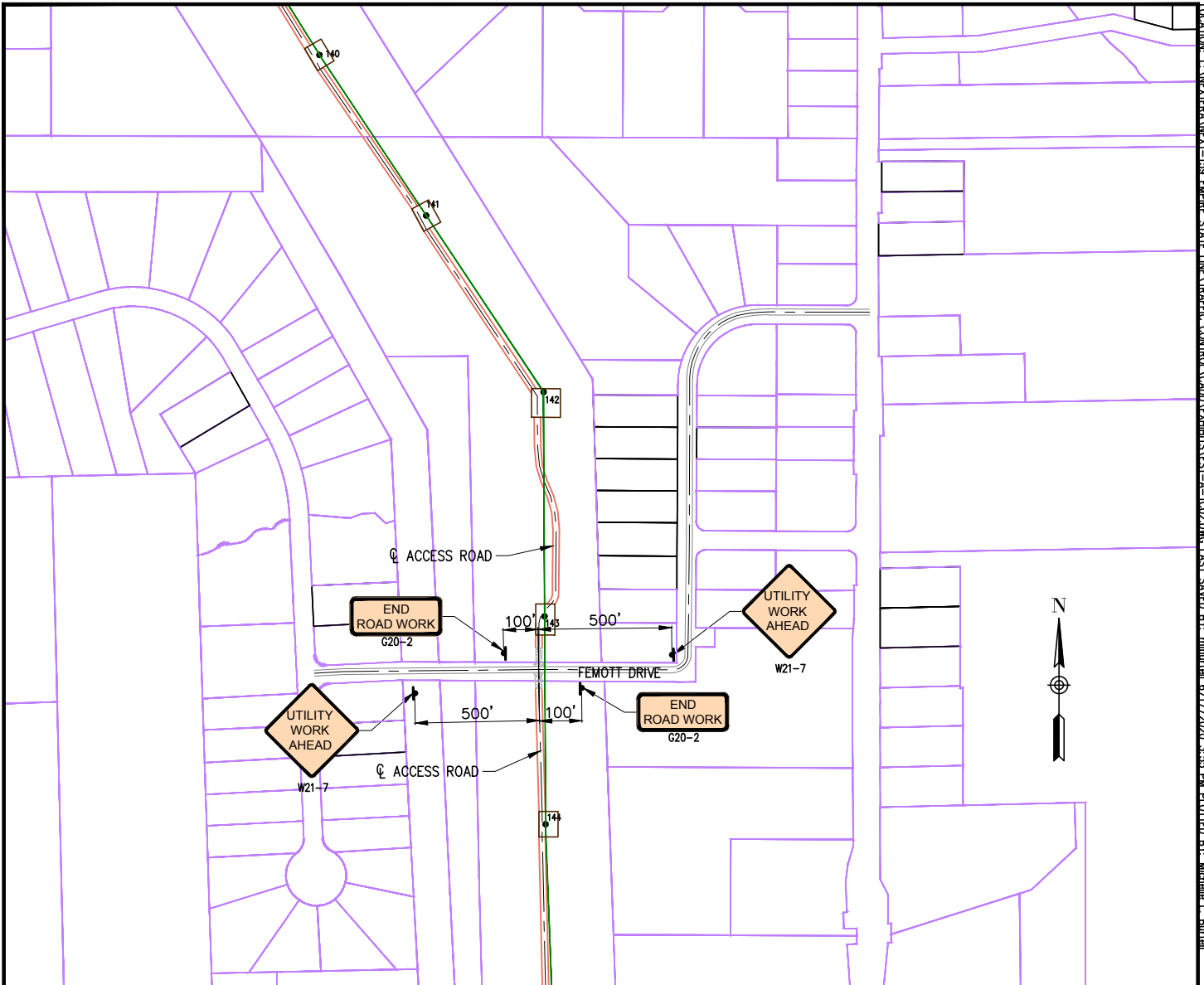
ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

### EMPIRE STATE LINE TRAFFIC CONTROLS

### TRAFFIC CONTROL

DWG. NAME: EST-A-TC02-21 REVISION NO : A

LOCATION: I:\NEXTERA\NEXT-159. EMPIRE STATE LINE\TRAFFIC CONTROL\GAD01\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



**FEMOTT DRIVE ACCESS**  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

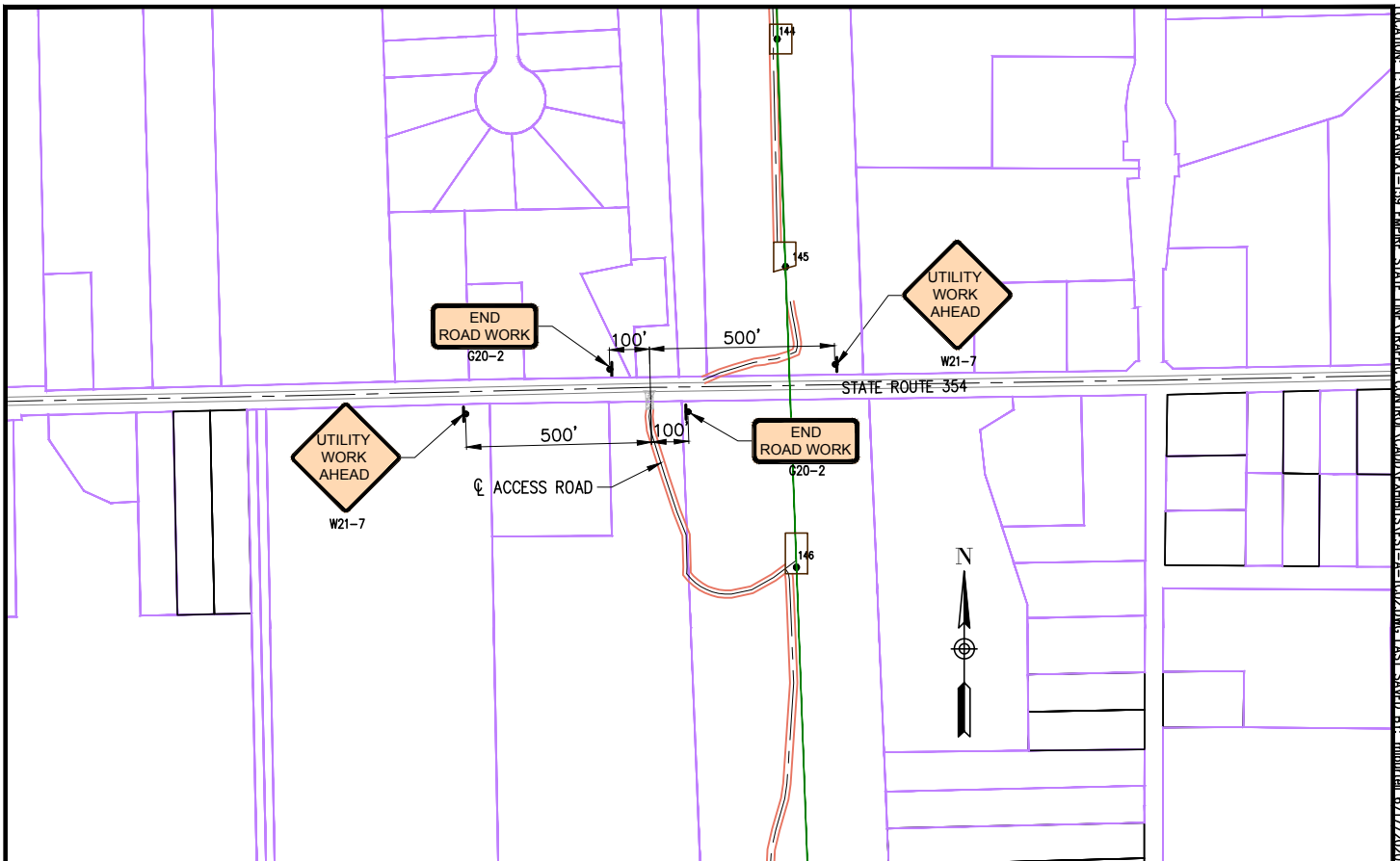
NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME: EST-A-TC02-22	REVISION NO : A



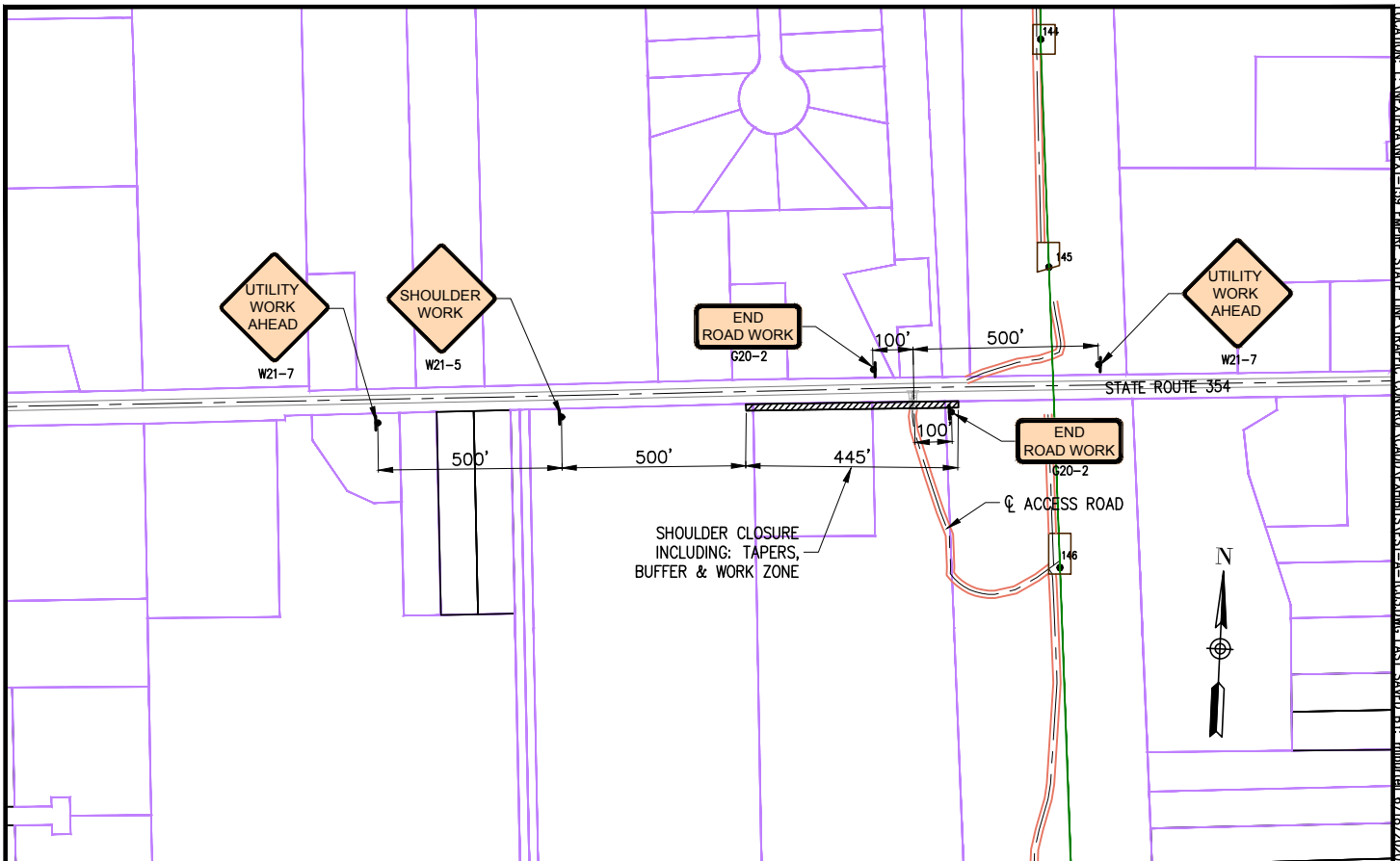
# STATE ROUTE 354 ACCESS

NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

## NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.

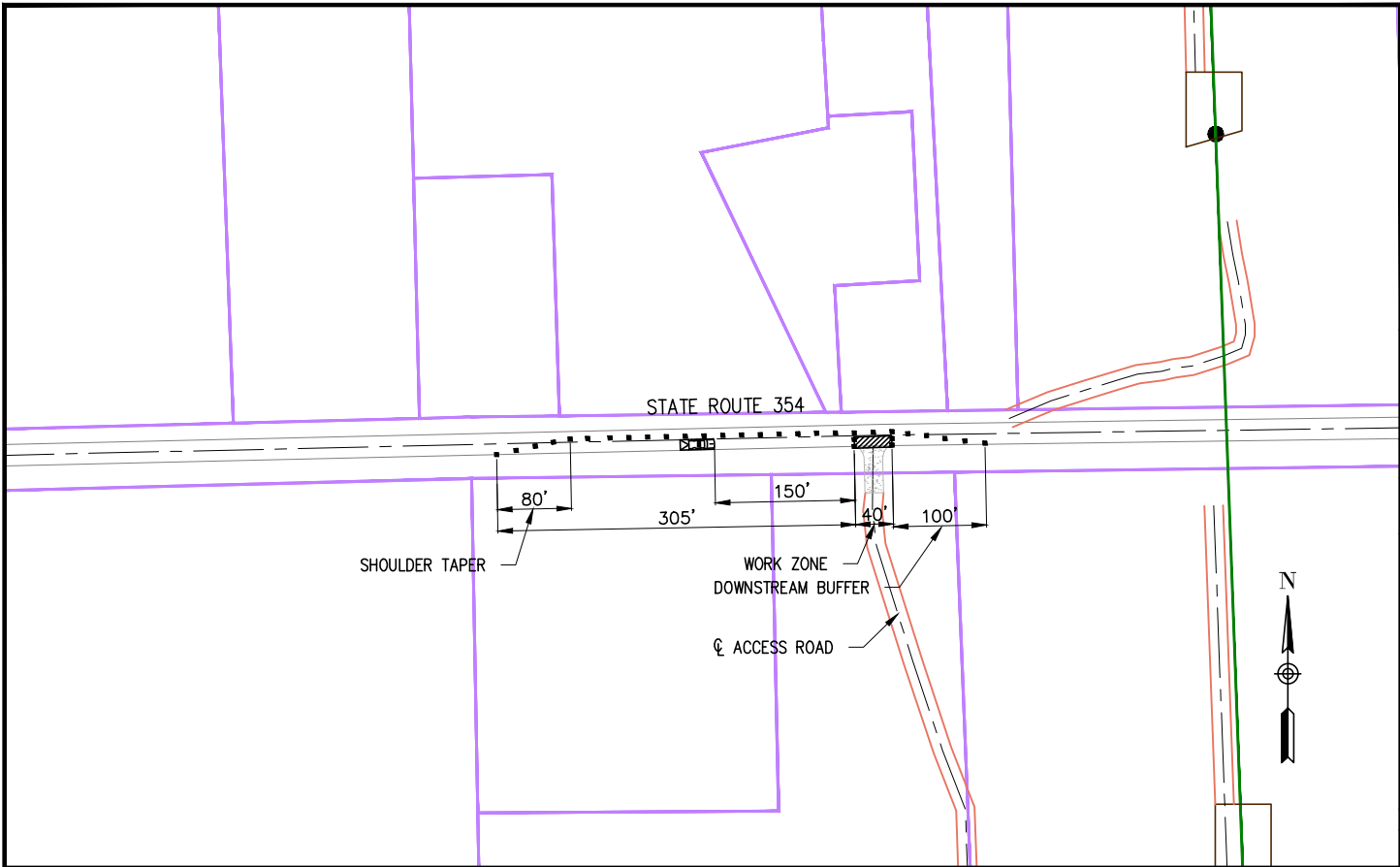


STATE ROUTE 354 – SHOULDER CLOSURE  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. TURN "UTILITY WORK AHEAD" SIGN ON EASTBOUND STATE ROUTE 354 FOR DURATION OF SHOULDER CLOSURE, RETURN SIGN UPON COMPLETION OF CLOSURE.

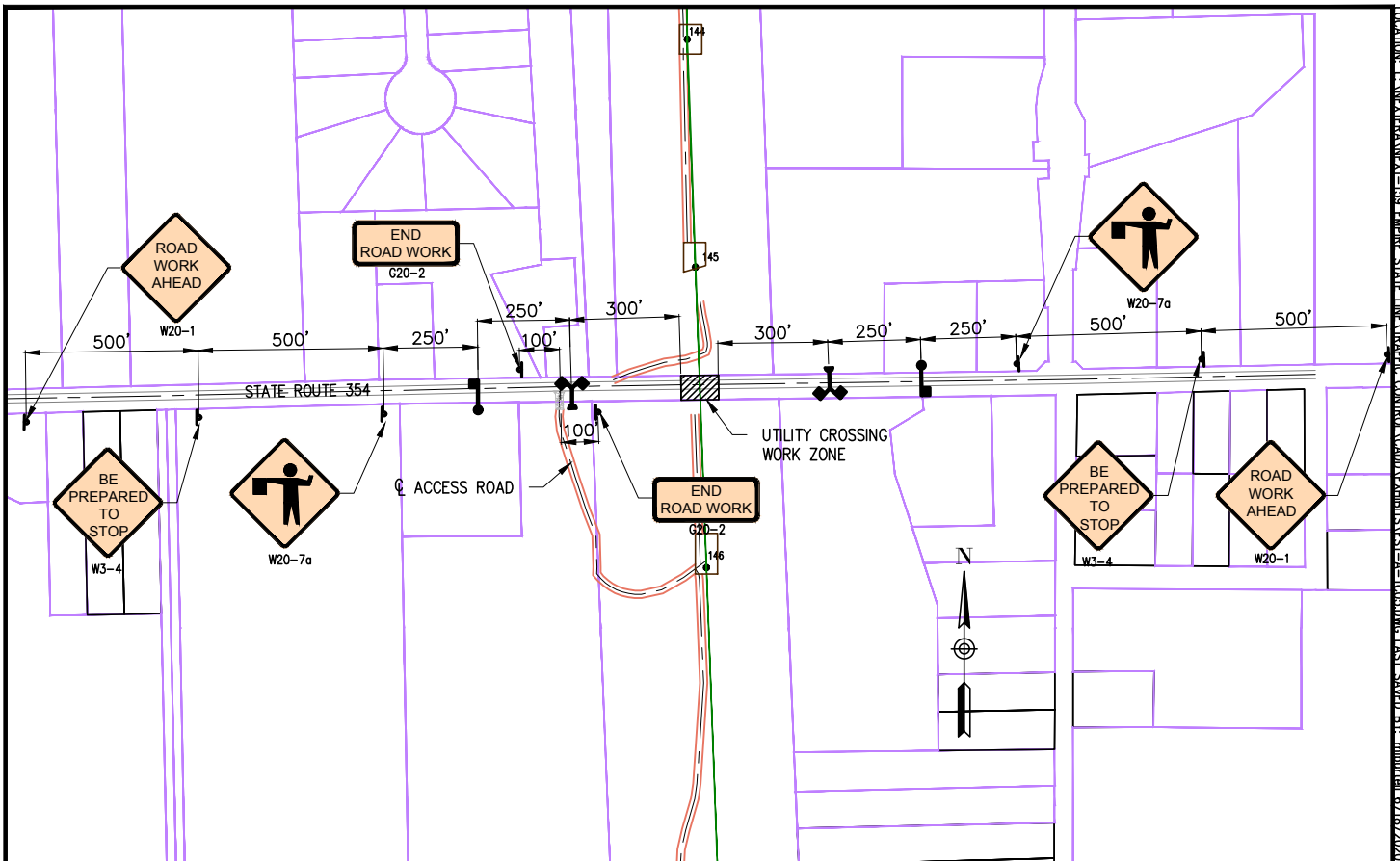


STATE ROUTE 354  
SHOULDER CLOSURE WORK ZONE  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. MAINTAIN A MINIMUM LANE WIDTH OF 10'.
2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
3. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED 40'.
4. BARRIER VEHICLE SPACING IS: MIN. 100', MAX 150' FROM WORK ZONE.



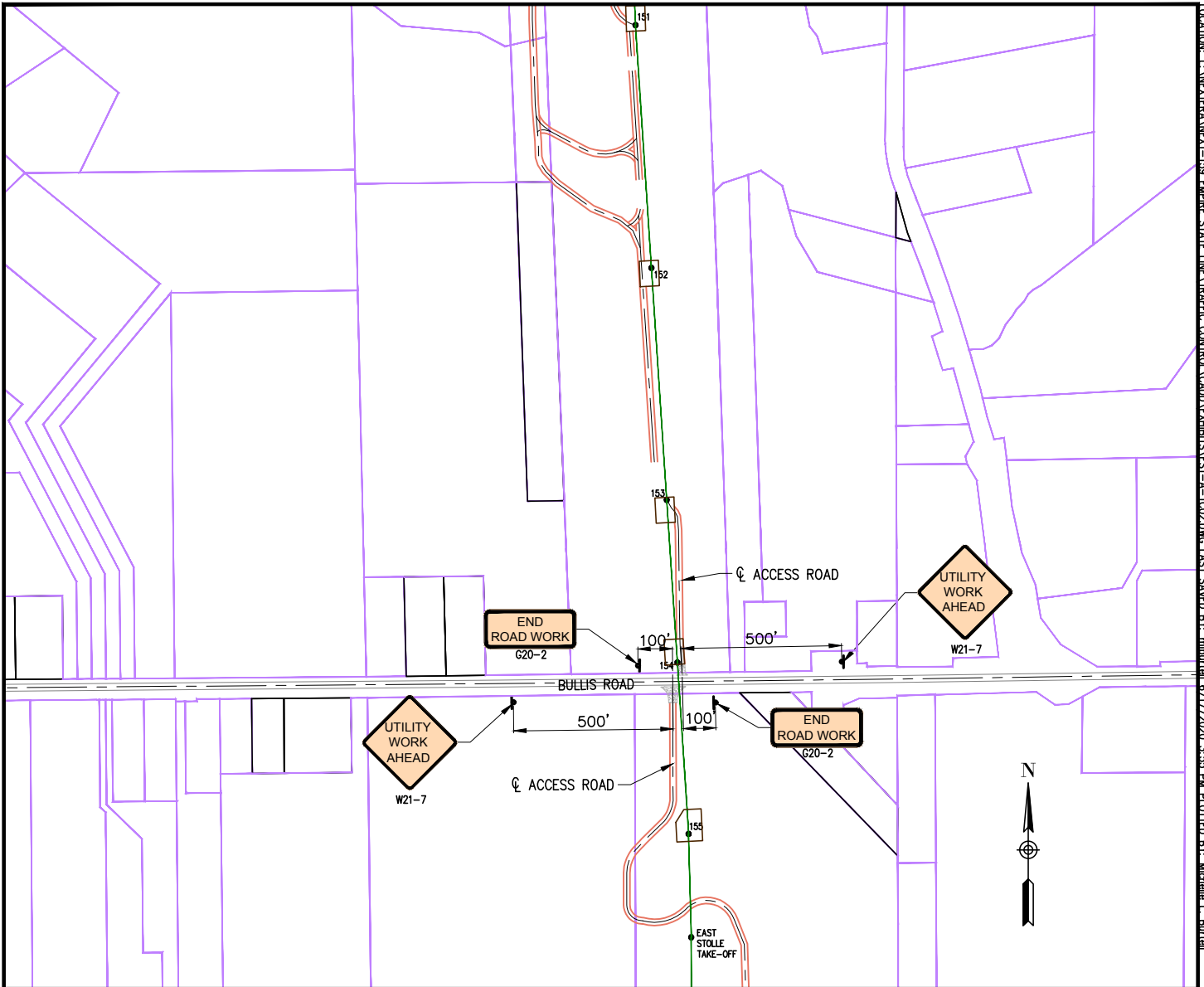
STATE ROUTE 354 – ROAD CLOSURE SIGNAGE  
NOT TO SCALE

LEGEND	
	SIGN
	ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE
	FLAGGER
	FLAG TREE





NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.
3. TURN "UTILITY WORK AHEAD" SIGNS WHILE TEMPORARY ROAD CLOSURE IS IMPLEMENTED. RETURN "UTILITY WORK AHEAD" SIGNS UPON COMPLETION OF THE TEMPORARY CLOSURE.
4. TRAFFIC STOPPAGE FOR AERIAL CROSSING NOT TO EXCEED 5-10 MINUTES IN DURATION.

LOCATION: I:\NEXTERA\NEXT-189 EMPIRE STATE LINE\TRAFFIC CONTROL\CAAD\EXHIBITS\EST-A-TC02.DWG, LAST SAVED BY: mburtell, 6/17/2020, 3:55 PM, PLOTTED BY: Michelle L. Burtell



**BULLIS ROAD ACCESS**  
NOT TO SCALE

LEGEND	
	SIGN
	CL ACCESS ROAD
	APPROXIMATE PROPERTY LINE OR HWY. BOUNDARY
	TRANSMISSION LINE

NOTES:

1. SEE DRAWING NO. EST-B-TC01-1 AND EST-B-TC01-2 FOR GENERAL TRAFFIC MANAGEMENT PLAN NOTES.
2. SEE DRAWING NO. EST-B-TC01-3 FOR TYPICAL SHOULDER CLOSURE DETAIL.
3. SEE DRAWING NO. EST-B-TC01-4 FOR TYPICAL LANE CLOSURE DETAILS.
4. SEE DRAWING NO. EST-B-TC01-6 FOR TEMPORARY ROAD CLOSURE.



ENGINEERING RECORD		DATE
DRAWN	M. BURTELL	11/08/19
DESIGNED	D. JOHNSON	11/08/19
CHECKED		
APPROVED		
DWG SCALE: AS NOTED		PLT SCALE: 1:1

EMPIRE STATE LINE TRAFFIC CONTROLS	
TRAFFIC CONTROL	
DWG. NAME: EST-A-TC02-24	REVISION NO : A