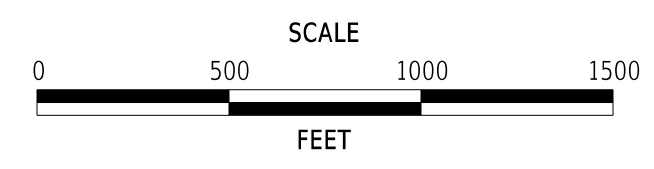


SECTION	SHEET DESCRIPTION	SHEET NO(S)
WRA	TITLE	1
WRA	INDEX OF SHEETS	2
WRA	ADDENDA AND REVISIONS	3
WRA	LEGEND	4
WRA	NOTES	5
WRA	TYPICAL SECTIONS	6
WRA	HORIZONTAL AND VERTICAL CONTROL	7-8
WRA	CONSTRUCTION PLANS (CP)	9-19
WRA	CONSTRUCTION DETAILS	20
WRA	GENERAL TRAFFIC CONTROL NOTES	21
WRA	WARNING SIGN LOCATION PLAN	22

ADDENDA / REVISIONS



**US 301
MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

INDEX OF SHEETS

SECTION
WRA
SHEET NO.
2

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ADDENDUM PREPARED BY		
 Whitman, Requardt and Associates, LLP <small>Engineers • Architects • Environmental Planners Est. 1915</small>		
THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION.	DATE	SEAL

REVISION PREPARED BY		
 Whitman, Requardt and Associates, LLP <small>Engineers • Architects • Environmental Planners Est. 1915</small>		
THIS SEAL APPLIES TO ALL SHEETS BEARING THE "WRA" SECTION DESIGNATION.	DATE	SEAL

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ADDENDA / REVISIONS		NOT TO SCALE	US 301 MEDIAN BARRIER	CONTRACT	BRIDGE NO.	N/A	ADDENDA AND REVISIONS	SECTION
				T202211301	DESIGNED BY: S. BEALL			WRA
				COUNTY	CHECKED BY: T. OLIVER	SHEET NO.		
				NEW CASTLE		3		

MANMADE ROADSIDE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BOLLARD - STEEL POLE	⊙		
BOLLARD - WOOD POST	⊠		
CURB, TYPE 1 AND TYPE 3		=====	
CURB, TYPE 2	CURB, TYPE "X"	=====	
CURB & GUTTER, TYPE 1		=====	(C) / (XX)
CURB & GUTTER, TYPE 2		=====	
CURB & GUTTER, TYPE 3	C&G, TYPE "X"	=====	
CURB OPENING - SUMP / ON GRADE			(C) / (D)
CURB OPENING WITH SIDEWALK			(C) / (SW)
FENCE - CHAINLINK OR STRANDED	-x-x-	○-○-○-○	(F) / (XX)
FENCE - STOCKADE OR SPLIT RAIL	-o-o-	●-●-●-●	
FLAG POLE	F.P.		
GUARDRAIL - STEEL BEAM, TYPE 1			
GUARDRAIL - STEEL BEAM, TYPE 2			
GUARDRAIL - STEEL BEAM, TYPE 3			
GUARDRAIL - WIRE ROPE			
GUARDRAIL - END ANCHORAGE			(OR) / (XX)
GUARDRAIL - END TREATMENT, TYPE 1			
GUARDRAIL - END TREATMENT, TYPE 2			
GUARDRAIL - END TREATMENT, TYPE 3			
GUARDRAIL - IMPACT ATTENUATOR			
LAMP AND POST - RESIDENTIAL	LAMP ⊙		
MAILBOX	MB ⊠	MB ■	
PARKING METER AND POST	P.M. ⊙		
PAVEMENT - FLEXIBLE	- - - - -		
PAVEMENT - RIGID	=====		
PILE - BRIDGE	□		
PILLAR OR MISCELLANEOUS POST	○		
TRAFFIC SIGN AND POST	⊥	●→	
WALL - BRICK OR BLOCK	□□□□		
WALL - STONE	□□□□		

DRAINAGE FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	ID
BIOFILTRATION SWALE		← BFS → x	
DITCH OR STREAM CENTERLINE	-∞-	x → x	
DIRECTIONAL STREAM FLOW ARROW	→		
DRAINAGE INLET	C.B. □ / D.I. □	■	(DI) / (XX)
DRAINAGE JUNCTION BOX	J.B. ⊙	■	(JB) / (XX)
DRAINAGE MANHOLE	⊙	●	(MH) / (XX)
DRAINAGE PIPE AND FLOW ARROW	- SIZE/TYPE LABEL - →	→	(P) / (XX)
FLARED END SECTION			(FE) / (XX)
RIPRAP - AREA FEATURE			(RR) / (XX)
RIPRAP - LINEAR FEATURE			
SAFETY END SECTION			(SES) / (XX)
UNDERDRAIN		→	(UD) / (XX)
UNDERDRAIN OUTLET		→	(UDO) / (XX)

UTILITY FEATURES			
FEATURE DESCRIPTION	EXISTING	PROPOSED	
COMMUNICATIONS DISTRIBUTION BOX	Ⓢ	Ⓢ	
COMMUNICATIONS MANHOLE	Ⓢ	Ⓢ	
COMMUNICATIONS TEST POINT	Ⓢ	Ⓢ	
COMMUNICATIONS - UNDERGROUND	--- COMM(A) ---	--- COMM ---	
ELECTRIC - UNDERGROUND	--- E(A) ---	--- E ---	
ELECTRIC MANHOLE	Ⓢ		
ELECTRIC METER	Ⓢ		
ELECTRIC TRANSFORMER	Ⓢ		
GAS - UNDERGROUND	--- G(A) ---	--- G ---	
GAS MANHOLE	Ⓢ		
GAS METER	G.M.		
GAS VALVE	G.V.		
GAS PUMP - SERVICE STATION	G.P.		
IRRIGATION - UNDERGROUND	--- IR(A) ---	--- IR ---	
ITMS - UNDERGROUND	--- ITMS(A) ---	--- ITMS ---	
LIGHTING - UNDERGROUND	--- LI(A) ---	--- LI ---	
LUMINAIRE - POLE MOUNTED			
MANHOLE - UNDETERMINED OWNER	Ⓢ		
RAILROAD TRACKS			
SANITARY - UNDERGROUND	--- S(A) ---	--- S ---	
SANITARY SEWER MANHOLE	Ⓢ		
SANITARY SEWER VALVE	S.V.		
SANITARY SEWER CLEANOUT OR VENT	S.C.O.		
SEPTIC DRAIN FIELD	S.D.F.		
SIGNALIZATION - UNDERGROUND	--- SIG(A) ---	--- SIG ---	
SOIL BORING LOCATION	Ⓢ		
TELEPHONE BOOTH	Ⓢ		
TRAFFIC - CONDUIT JUNCTION WELL	J.W.		
TRAFFIC - LIGHT POLE AND BASE	Ⓢ		
TRAFFIC - PEDESTRIAN POLE & BASE	Ⓢ	■	
TRAFFIC - SIGNAL CABINET & BASE	Ⓢ	■	
TRAFFIC - SIGNAL POLE AND BASE	Ⓢ	⊙	
UTILITY BOX	Ⓢ		
UTILITY MARKER	Ⓢ		
UTILITY POLE GUY WIRE ANCHOR	→	→	
UTILITY POLE	Ⓢ	■	
UTILITY TEST HOLE LOCATION	Ⓢ		
WATER - UNDERGROUND	--- W(A) ---	--- W ---	
WATER - FIRE HYDRANT	F.H.	F.H.	
WATER METER	W.M.		
WATER VALVE	W.V.	W.V.	
WELL HEAD	WELL		

PAVEMENT SECTION(S)	
HTCB ASPHALT MAINTENANCE STRIP	
RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS	

NATURAL ROADSIDE FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
HEDGEROW OR THICKET		
MARSH BOUNDARY LINE		
TREE - CONIFEROUS		
TREE - DECIDUOUS		
TREE STUMP	Ⓢ	
SHRUBBERY		
WETLAND BOUNDARY - DELINEATED	--- WL ---	
WOODS LINE BOUNDARY		

RIGHT-OF-WAY FEATURES		
FEATURE DESCRIPTION	EXISTING	PROPOSED
DENIAL OF ACCESS	--- DA ---	--- DA ---
EASEMENT - OTHERS	--- EASEMENT TYPE ---	
PERMANENT EASEMENT	--- PE ---	--- PE ---
PROPERTY LINE		
PROPERTY MARKER - CONCRETE	C.M.	Ⓢ
PROPERTY MARKER - IRON PIPE	I.P.	
RIGHT-OF-WAY BASELINE	100+00	100+00
RIGHT-OF-WAY LINE	---	R/W
RIGHT-OF-WAY BY PE	---	
RIGHT-OF-WAY & DENIAL OF ACCESS	R/W-DA	R/W-DA
RIGHT-TO-ENTER		RTE
TEMPORARY CONSTRUCTION EASEMENT		--- TCE ---

SURVEY CONTROL & MONUMENTATION	
FEATURE DESCRIPTION	EXISTING
POINT OF CURVATURE OR TANGENCY	⊙
POINT OF INTERSECTING TANGENTS	⊙
SURVEY BENCHMARK LOCATION	B.M.
SURVEY NGS POINT LOCATION	⊙
SURVEY TIE POINT LOCATION	T.P.
SURVEY TRAVERSE POINT	△

MISCELLANEOUS FEATURES	
FEATURE DESCRIPTION	PROPOSED
BARRIER, DOUBLE-FACED, PERMANENT	
BARRIER, SINGLE-FACED, PERMANENT, TEST LEVEL 4 / TEST LEVEL 5	
CABLE BARRIER END ANCHORAGE	
CLEAR ZONE	CZ
CONSTRUCTION BASELINE	100+00
HIGH TENSION CABLE BARRIER	
INLET SEDIMENT CONTROL	
LIMIT OF CONSTRUCTION	--- LOC ---
PAVEMENT PATCH	
PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH	
P.C.C. SIDEWALK - 4"	
P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)	

IDENTIFIERS	
FEATURE DESCRIPTION	ID
ABANDON BY CONTRACTOR	(AB) / (C)
ABANDON BY OTHERS	(AB) / (O)
ADJUST BY CONTRACTOR	(A) / (C)
ADJUST BY OTHERS	(A) / (O)
BEST MANAGEMENT PRACTICE	(BMP) / (XXX)
BUS STOP PAD / TYPE	(BSP) / (X)
BUS STOP WITH SHELTER PAD / TYPE	(BSSP) / (X)
CONCRETE SAFETY BARRIER	(B) / (XXV)
CONVERT TO JUNCTION BOX	(CJB) / (XXV)
CONVERT TO DRAINAGE MANHOLE	(CMB) / (XXV)
DO NOT DISTURB	(DND)
ENERGY DISSIPATOR	(ED) / (XXV)
LANDSCAPE PLANTINGS	(LS) / (XXV)
PEDESTRIAN CONNECTION / TYPE	(PC) / (X)
PEDESTRIAN CONNECTION / TYPE WITHOUT DETECTABLE WARNING SYSTEM	(PCAL) / (XXV)
RELOCATE BY CONTRACTOR	(RL) / (C)
RELOCATE BY OTHERS	(RL) / (O)
RELOCATE BY PROPERTY OWNER	(RL) / (PO)
REMOVE BY CONTRACTOR	(RM) / (C)
REMOVE BY OTHERS	(RM) / (O)
REMOVE BY TRAFFIC CONTRACTOR	(RM) / (TC)

EROSION & SEDIMENT CONTROL	
	COMPOST FILTER LOG
	COMPOST FILTER LOG / LENGTH
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	REINFORCED SILT FENCE / LENGTH
	REINFORCED SILT FENCE
	SUPER SILT FENCE / LENGTH
	SUPER SILT FENCE
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

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GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED JANUARY 2025 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2025, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

2. ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

(X)	NONE
()	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
()	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

()	CROSS SECTIONS
()	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

PROJECT NOTES

SECTION 100

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN AREA SUITABLE FOR STOCKPILING BORROW, TOPSOIL AND OTHER FILL MATERIAL REQUIRED FOR THE PROJECT IN ACCORDANCE WITH SECTIONS 110.07 AND 110.10 OF THE STANDARD SPECIFICATIONS. SUBJECT TO THE APPROVAL OF THE ENGINEER, STOCKPILE AREA MAY BE LOCATED OUTSIDE THE PROJECT LIMITS, IF NECESSARY. NO ADDITIONAL PAYMENT WILL OCCUR FOR OFFSITE STOCKPILING.
- ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AERIAL VEHICLE (UAV) FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE UAV, THE FLIGHT TIME, LOCATION OF THE FLIGHT, THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.

SECTION 200

- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG THE PROPOSED ALIGNMENT FOR THE HIGH TENSION CABLE BARRIER AT POINTS OF POSSIBLE UTILITY OR DRAINAGE CONFLICTS TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE CONTRACTOR MAY NEED TO ADJUST POST SPACING AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND STORM SEWER PIPES. THE ADJUSTED POST SPACING SHALL BE DETERMINED BASED ON THE REQUIREMENTS FOR THE MAXIMUM ALLOWABLE DEFLECTION AS STATED IN THE SPECIAL PROVISIONS. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO ANY CONFLICT. TEST HOLES SHALL BE MEASURED BASED ON THE QUANTITY OF EXCAVATION (CUBIC YARDS) AND PAID FOR AT THE BID PRICE FOR ITEM 204000 - TEST HOLE.

SECTION 400

- THE CONTRACTOR MAY PLACE THE TYPE B ASPHALT FOR THE PROPOSED MAINTENANCE STRIP FOR THE HIGH-TENSION CABLE BARRIER IN ONE 4-INCH LIFT.

SECTION 700

- AT LOCATIONS WHERE THE PROPOSED HIGH TENSION CABLE BARRIER TERMINATES ADJACENT TO EXISTING STEEL BEAM GUARDRAIL, THE PROPOSED END TERMINAL SHALL NOT IMPACT OR CONNECT TO THE EXISTING GUARDRAIL. THE LIMITS OF THE PROPOSED END TERMINAL SHALL BEGIN AT THE FINAL LINE POST OF THE CABLE BARRIER SEGMENT, AS IDENTIFIED ON THE CONSTRUCTION PLANS. ANY DAMAGE TO THE EXISTING GUARDRAIL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SUPPLY DELDOT WITH SPARE PARTS FOR THE HIGH TENSION CABLE BARRIER AS DESCRIBED IN THE STANDARD SPECIFICATIONS. THESE PARTS SHALL BE DELIVERED BY THE CONTRACTOR TO THE DELDOT CANAL DISTRICT MAINTENANCE FACILITY AS DIRECTED BY THE ENGINEER. PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO THE RESPECTIVE BID ITEMS.

SECTION 900

- THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- ROADSIDE AMENITIES WITHIN THE LIMITS OF CONSTRUCTION AREAS THAT ARE TO REMAIN IN PLACE AND ARE NOTED BY "DND," SHALL BE PROTECTED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE AMENITIES SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- FHWA "BUY AMERICA" PROVISIONS APPLY TO THIS CONTRACT.
- THERE ARE NO ENVIRONMENTAL PERMITS REQUIRED FOR THIS PROJECT; THEREFORE, NO ENVIRONMENTAL COMPLIANCE SHEET WAS PREPARED.
- DURING MAINTENANCE STRIP CONSTRUCTION, NO BARE SOIL SHALL BE PERMITTED TO SHOW AT THE END OF THE WORK DAY. ALL BARE SOIL SHALL BE COVERED WITH GABC OR A METHOD APPROVED BY THE ENGINEER.
- THE EXISTING FEATURES AND CONSTRUCTION BASELINE SHOWN ON THESE PLANS ARE BASED ON THE PROPOSED DESIGN FILES FROM THE FOLLOWING US 301 CONTRACTS.

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AN AS-BUILT FIELD SURVEY WAS NOT COMPLETED AND THE BASELINE STATIONING IS PROVIDED FOR REFERENCE ONLY TO APPROXIMATE THE LOCATION OF THE FIRST AND LAST LINE POST ALONG EACH SEGMENT OF PROPOSED HIGH TENSION CABLE BARRIER. THE FINAL LAYOUT OF THE PROPOSED BARRIER IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE BASED ON MANUFACTURER DESIGN DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT IMPACT ANY EXISTING DRAINAGE STRUCTURES OR PIPES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING DRAINAGE FEATURES SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- UTILITY INFORMATION REQUESTS HAVE NOT BEEN COMPLETED. THE LOCATIONS OF SOME EXISTING UTILITIES HAVE BEEN SHOWN BASED ON PREVIOUS DELDOT CONTRACTS IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT TELEPHONE NUMBER 1-800-282-8555 PRIOR TO ANY EXCAVATION. ALL EXISTING UTILITIES SHALL BE PROTECTED, TEMPORARILY SUPPORTED AND/OR RELOCATED AS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY.
- AT LOCATIONS WHERE EXISTING GUARDRAIL IS BEING REPLACED, THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING FIXED OBJECT/ROADSIDE HAZARD REMAIN PROTECTED DURING CONSTRUCTION UNTIL THE NEW GUARDRAIL IS COMPLETELY INSTALLED. THIS INCLUDES, BUT IS NOT LIMITED TO, EXISTING SIGN STRUCTURES AND BRIDGE PIERS / PARAPETS.

MISCELLANEOUS

- AT LOCATIONS WHERE EXISTING GUARDRAIL IS BEING REMOVED AND REPLACED, THE CONTRACTOR SHALL FILL IN VOIDS FROM THE REMOVAL OF THE EXISTING POSTS WITH MILLINGS FROM THE REMOVAL OF THE MAINTENANCE STRIP, BORROW, TYPE F OR SUITABLE EXCAVATED MATERIAL AS DETERMINED BY THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LAYOUT THE PROPOSED BARRIER PRIOR TO BEGINNING CONSTRUCTION. ANY ADJUSTMENTS TO THE BARRIER LAYOUT TO AVOID OBSTRUCTIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. ANY EXISTING SURFACE FEATURES, SUCH AS POLES, SIGNS, OR DRAINAGE INLETS THAT WILL NEED TO BE ADJUSTED OR RELOCATED SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY ADJUSTMENTS.

GENERAL EROSION AND SEDIMENT CONTROL (E&S) NOTES

- THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. PLAN APPROVAL IS VALID FOR A FIVE YEAR PERIOD BEGINNING ON THE DATE OF THE STORMWATER ENGINEER'S SIGNATURE. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, NOTIFY THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION. ANY DEVIATIONS TO THE SWPPP NEED APPROVAL FROM THE ENGINEER.

<i>Steven Sison</i>	1/3/2025
DELDOT STORMWATER ENGINEER	DATE
"I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS MEET THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."	

OVERALL PROJECT IMPACTS (STA. 126+10 TO 853+50)	
TOTAL AMOUNT OF DISTURBED AREA FOR THE PROJECT	25.53 AC
TOTAL ADDED IMPERVIOUS FOR THE PROJECT	4.64 AC

PHASE 1 (T202211301) PROJECT IMPACTS (STA. 544+50 TO 853+50)	
TOTAL AMOUNT OF DISTURBED AREA FOR PHASE 1 (T202211301)	9.43 AC
TOTAL ADDED IMPERVIOUS FOR PHASE 1 (T202211301)	1.40 AC

- ASSIGN A RESPONSIBLE PERSON TO BE ON SITE DURING ALL EARTH DISTURBING ACTIVITIES AND BE AN ACTIVE DNREC BLUE CARD HOLDER AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS (DSSR). BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- FILE AS A CO-PERMITTEE IN ACCORDANCE WITH SECTION 901 OF THE STANDARD SPECIFICATIONS. POSTING AND MAINTENANCE OF THE NOI PERMIT COVERAGE IS INCIDENTAL TO THE CONTRACT.
- REVISIONS TO THE SWPPP OR ENVIRONMENTAL COMPLIANCE PLAN SHEET(S) SHALL BE APPROVED PRIOR TO INITIATION IN THE FIELD. THE ENGINEER IS RESPONSIBLE FOR APPROVING ALL REDLINES AND REVISIONS TO THE SWPPP.
- IMPLEMENTING AND MAINTAINING POLLUTION PREVENTION DEVICES AND PRACTICES IS REQUIRED UNDER THE DELAWARE CONSTRUCTION GENERAL PERMIT AND THE DSSR AND ARE INCIDENTAL TO THE CONTRACT.
- A SOIL STOCKPILE, AS DESCRIBED IN DELDOT STANDARD SPECIFICATIONS AND DEFINED IN THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK, IS ANY LOCATION WITHIN THE LIMITS OF CONSTRUCTION WHERE A TEMPORARY DEPOSIT OF EXCAVATED SOIL IS BEING RESERVED FOR FUTURE USE. A SOIL STOCKPILE SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A STORM DRAIN INLET, OPEN CHANNEL, WETLAND, OR WATERBODY. A REQUEST MAY BE MADE TO THE ENGINEER TO PERMIT LOCATING A SOIL STOCKPILE LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL. UPON APPROVAL, IF ANY PART OF A SOIL STOCKPILE IS LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL, INSTALL A SUPER SILT FENCE PERIMETER TO PROTECT THE SOIL STOCKPILE. THE SUPER SILT FENCE MUST BE CONSTRUCTED IN ACCORDANCE WITH 905.3.B.3 OF THE STANDARD SPECIFICATIONS. THE COST FOR INSTALLATION AND MAINTENANCE OF THE STOCKPILE SUPER SILT FENCE IS INCIDENTAL TO THE CONTRACT.
- PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF FROM LEAVING THE SITE. CHECK PERIMETER CONTROLS DAILY AND ADJUST OR REPAIR TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. REMOVE ACCUMULATED SEDIMENT BEFORE IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE ENGINEER.
- ANY SEDIMENT LADEN DISCHARGE LEAVING THE LIMIT OF CONSTRUCTION SHALL IMMEDIATELY BE ADDRESSED THROUGH BEST AVAILABLE TECHNOLOGIES TO CONTROL ANY FURTHER SEDIMENT LADEN DISCHARGE. REMEDIATION MAY INCLUDE STANDARD E&S PRACTICES OR OTHER METHODS AS APPROVED BY THE ENGINEER.
- ALL TEMPORARY CONCENTRATED FLOW AREAS INCLUDING CHANNEL SIDE SLOPES SHALL HAVE EROSION CONTROL BLANKET MULCH AS DIRECTED BY THE ENGINEER. INSTALL WITHIN SEVEN CALENDAR DAYS UPON CONSTRUCTION INITIATION. A TEMPORARY CONCENTRATED FLOW AREA MAY INCLUDE DITCHES, SWALES, BERMS, CONCENTRATED RUNOFF AREAS, ETC.
- FOR ANY PERMANENT STORMWATER MANAGEMENT FACILITY, FOLLOW THAT FACILITY'S SEQUENCE OF CONSTRUCTION AS NOTED ON THE STORMWATER MANAGEMENT SHEETS.
- NO MORE THAN 20 ACRES MAY BE DISTURBED AT ANY TIME. DISTURBANCE OF A SECOND 20 ACRE SECTION MAY NOT PROCEED UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE FIRST 20 ACRE SECTION IS ACCOMPLISHED AS APPROVED BY THE ENGINEER.
- MAINTAIN POSITIVE DRAINAGE IN EXISTING AND PROPOSED DRAINAGE SYSTEMS BY EXECUTING CONSTRUCTION, CLEANING EXISTING DRAINAGE SYSTEMS, AND PROPERLY DISPOSING OF SEDIMENT THROUGHOUT THE DURATION OF THE PROJECT.
- IN ORDER TO MAINTAIN EFFECTIVE COMMUNICATION WITH THE TRAVELING PUBLIC, ONLY PLACE SIGNS, BANNERS, FLAGS, OR OTHER DISPLAYS WITHIN THE PROJECT'S LIMITS THAT MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ANY SIGNS OR OTHER MATERIALS THAT DEVIATE FROM THE MUTCD, MUST BE PREAPPROVED BY THE ENGINEER. THE ONLY SIGNAGE AND MATERIALS THAT MAY BE DISPLAYED UPON VEHICLES AND EQUIPMENT WITHIN THE PROJECT AREA ARE SIGNS DENOTING THE NAME OF THE CONTRACTOR AND ANY SUBCONTRACTORS AND OTHER SIGNS AND/OR MATERIALS REQUIRED AND APPROVED PURSUANT TO THE MUTCD AND THE ENGINEER. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SIGNS OR MATERIALS WITHIN THE PROJECT THAT DO NOT MEET THESE REQUIREMENTS IMMEDIATELY UPON NOTIFICATION BY THE ENGINEER. FAILURE TO REMOVE SIGNS OR OTHER MATERIALS FOLLOWING NOTIFICATION FROM THE ENGINEER WILL RESULT IN LIQUIDATED DAMAGES BEING ASSESSED IN THE MANNER AND AMOUNT SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 108.9A.
- PROVIDE AND INSTALL HIGH TENSION CABLE BARRIER POSTS WITH TWO COATS OF RUST INHIBITOR COATING FROM THE BOTTOM OF THE POST TO 6" (MINIMUM) ABOVE GROUND ELEVATION. POSTS WITH DAMAGED COATING MUST BE RECOATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ADDENDA / REVISIONS

NOT TO SCALE

US 301
MEDIAN BARRIER

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

NOTES

SECTION

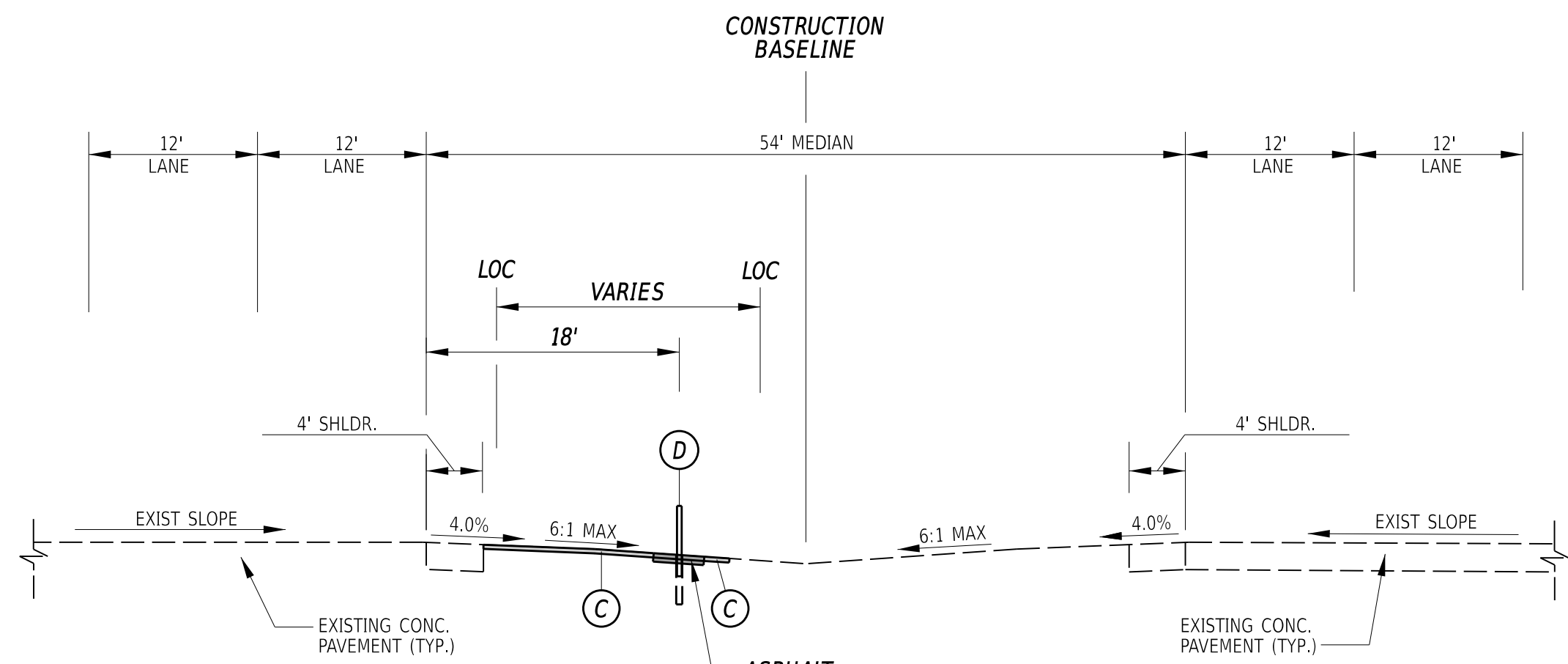
WRA

SHEET NO.

5

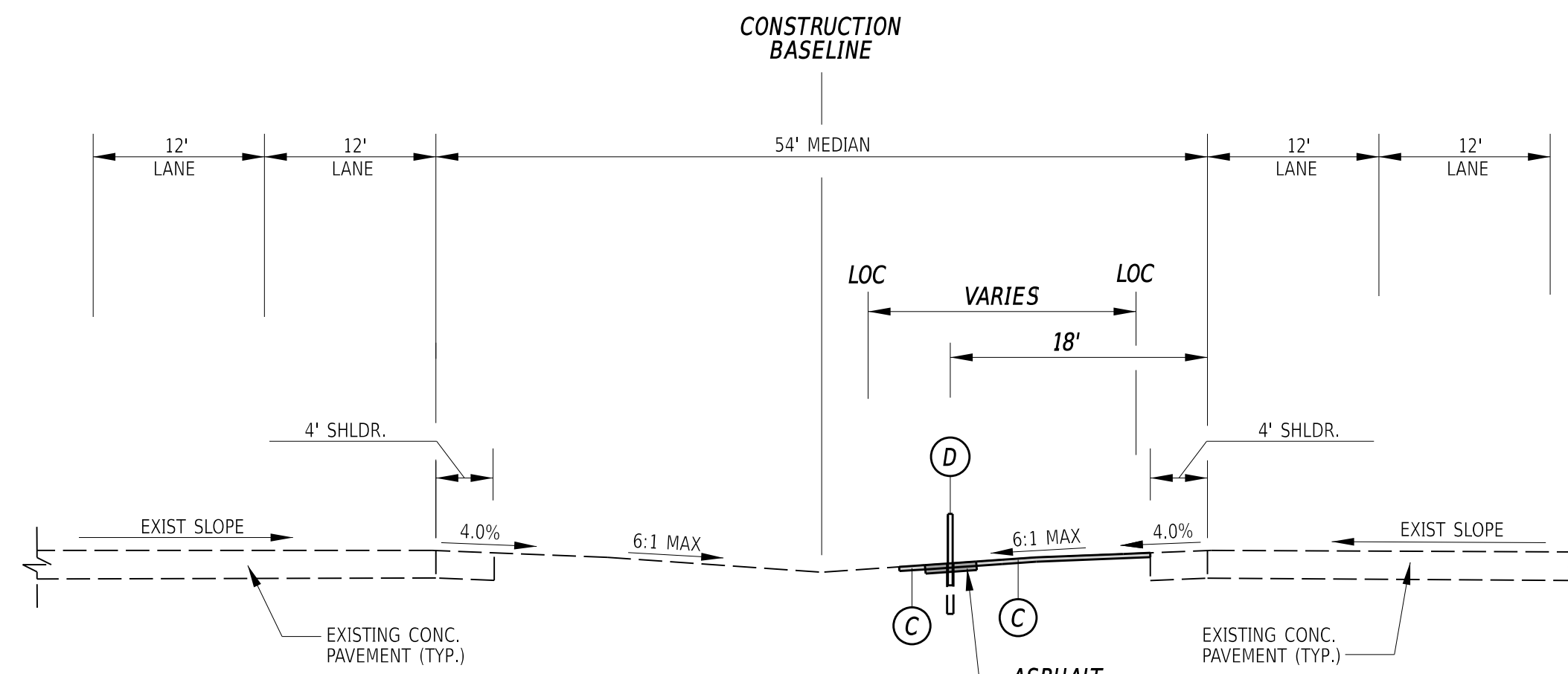
LEGEND

- (A) ITEM 301001 - GRADED AGGREGATE BASE COURSE, TYPE B
- (B) ITEM 401014 - SUPERPAVE TYPE B, PG 64-22
- (C) ITEM 908004/908010 - TOPSOIL, 6" DEPTH / TOPSOILING, 6" DEPTH
ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
- (D) ITEM 722001 - HIGH TENSION CABLE BARRIER



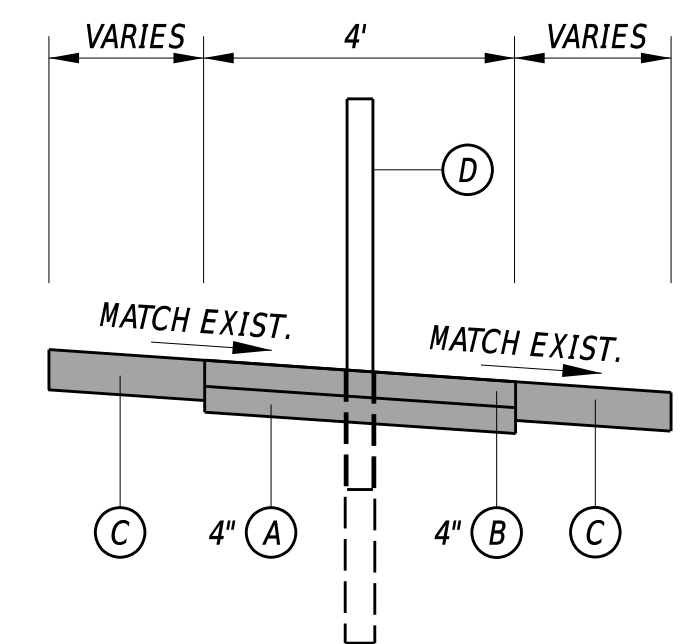
US 301 MEDIAN - NORMAL SECTION

STATION 572+30 TO STATION 583+50
STATION 617+90 TO STATION 643+39
STATION 657+14 TO STATION 665+20



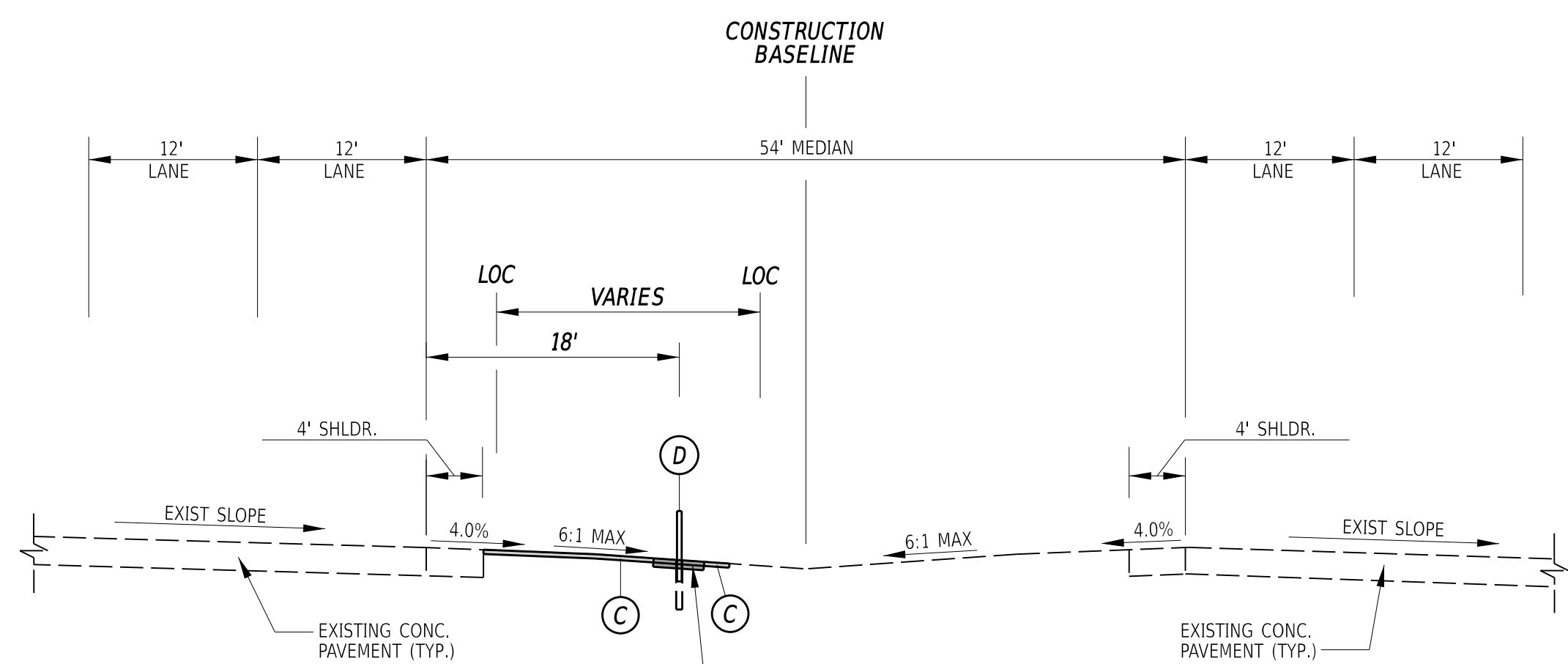
US 301 MEDIAN - NORMAL SECTION

STATION 548+20 TO STATION 555+10
STATION 688+12 TO STATION 844+15



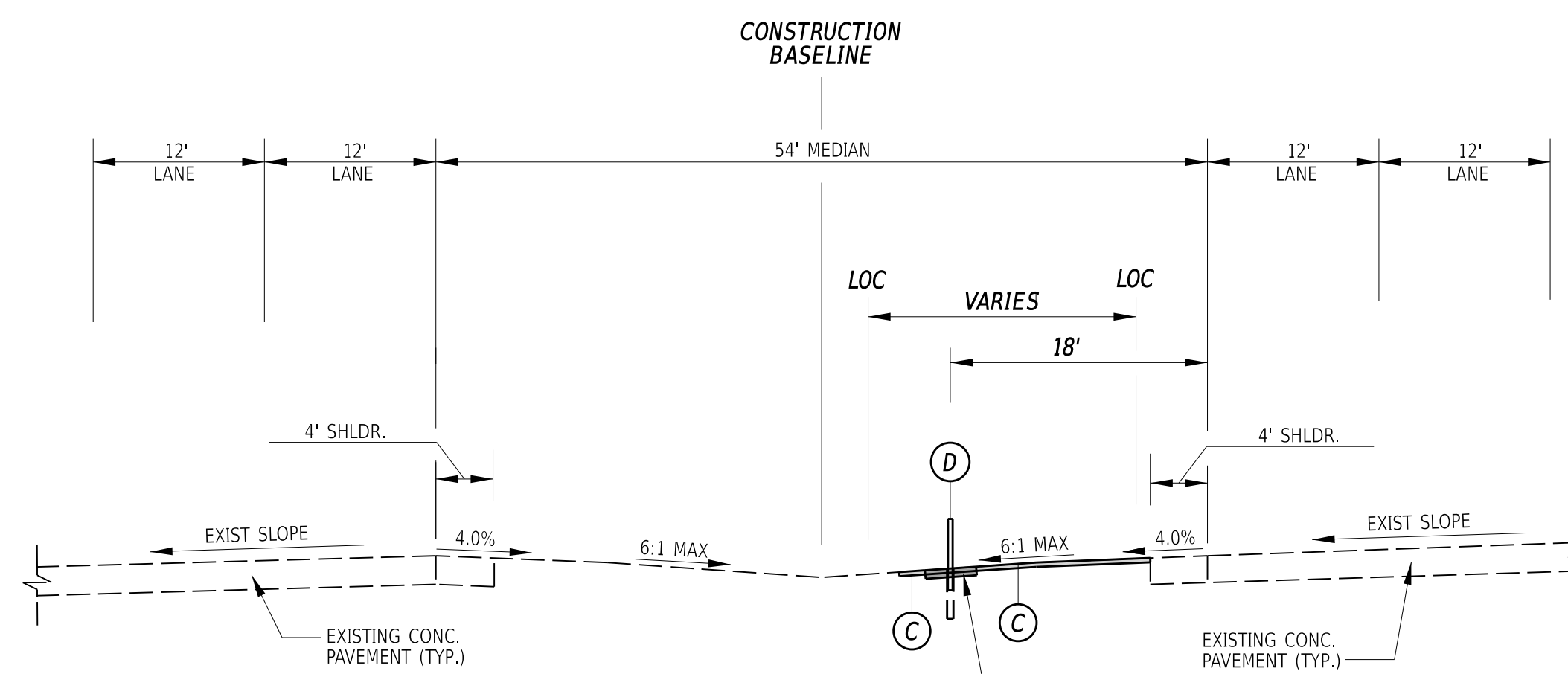
**HTCB ASPHALT MAINTENANCE STRIP
NOT TO SCALE**

- NOTES:**
1. POST FOOTING SHOWN IS DRIVEN SOCKET OPTION. POST FOOTING SHALL BE APPROVED BY THE ENGINEER IN ACCORDANCE WITH SECTION 722.3.1.
 2. THE TYPE B ASPHALT MAY BE PLACED IN ONE 4-INCH LIFT.
 3. THE LINE POST SOCKET MAY BE DRIVEN THROUGH THE ASPHALT MAINTENANCE STRIP. IF THE SOCKET IS DAMAGED, THE CONTRACTOR MAY NEED TO CONSIDER CORE DRILLING THE ASPHALT PRIOR TO DRIVING THE SOCKET.



US 301 MEDIAN - SUPERELEVATED SECTION

STATION 583+50 TO STATION 617+90
STATION 643+39 TO STATION 657+14



US 301 MEDIAN - SUPERELEVATED SECTION

STATION 555+10 TO STATION 572+00
STATION 678+50 TO STATION 688+12

ADDENDA / REVISIONS

NOT TO SCALE

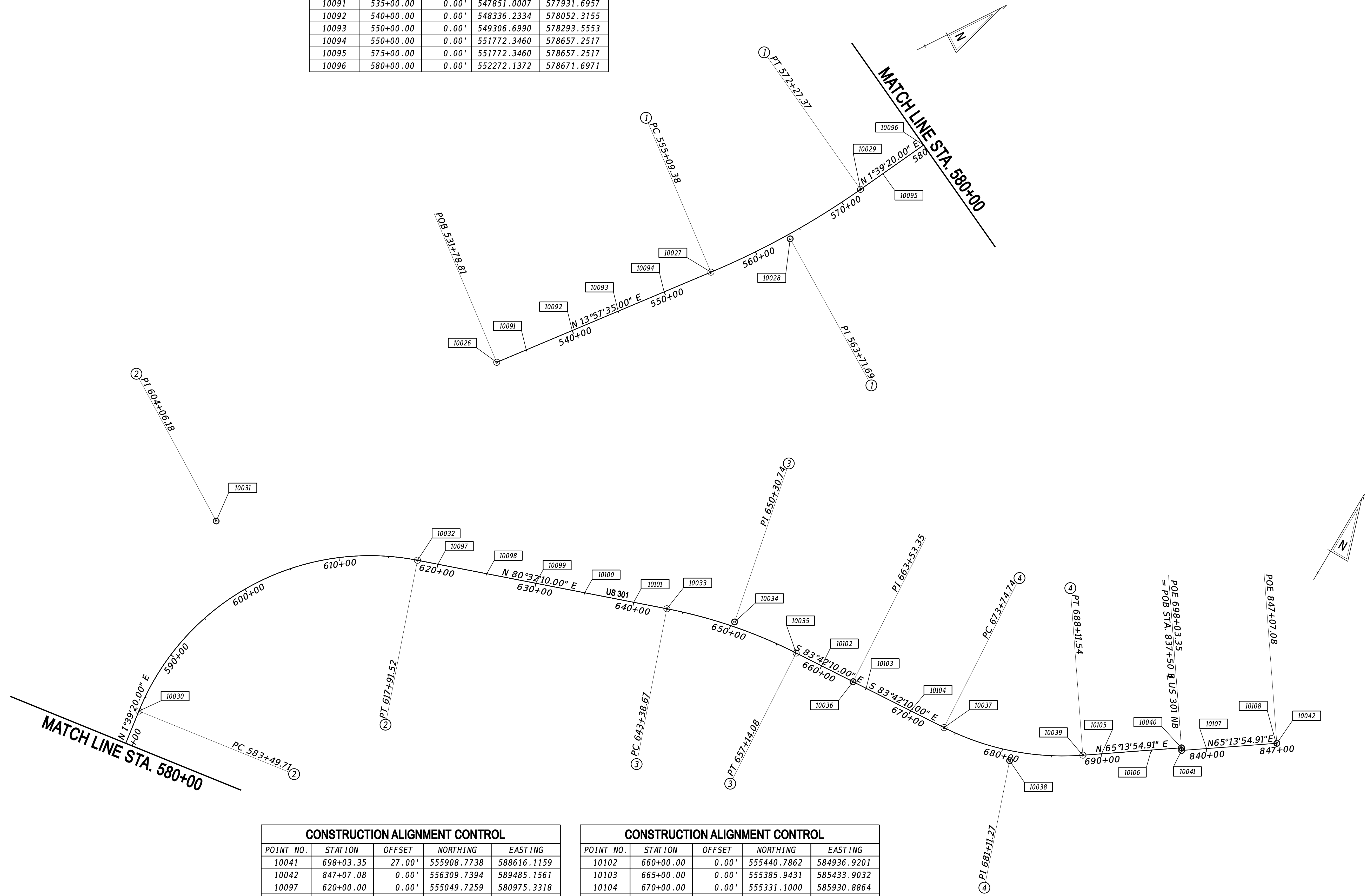
**US 301
MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

TYPICAL SECTIONS

SECTION
WRA
SHEET NO.
6

CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10026	531+78.81	0.00'	547539.2979	577854.2121
10091	535+00.00	0.00'	547851.0007	577931.6957
10092	540+00.00	0.00'	548336.2334	578052.3155
10093	550+00.00	0.00'	549306.6990	578293.5553
10094	550+00.00	0.00'	551772.3460	578657.2517
10095	575+00.00	0.00'	551772.3460	578657.2517
10096	580+00.00	0.00'	552272.1372	578671.6971

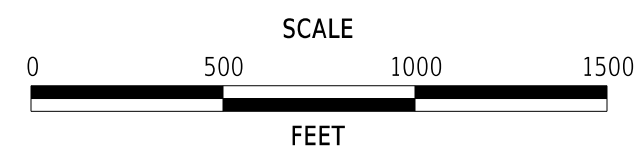


CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10041	698+03.35	27.00'	555908.7738	588616.1159
10042	847+07.08	0.00'	556309.7394	589485.1561
10097	620+00.00	0.00'	555049.7259	580975.3318
10098	625+00.00	0.00'	555131.9389	581468.5265
10099	630+00.00	0.00'	555214.1519	581961.7212
10100	635+00.00	0.00'	555296.3649	582454.9160
10101	640+00.00	0.00'	555378.5778	582948.1107

CONSTRUCTION ALIGNMENT CONTROL				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
10102	660+00.00	0.00'	555440.7862	584936.9201
10103	665+00.00	0.00'	555385.9431	585433.9032
10104	670+00.00	0.00'	555331.1000	585930.8864
10105	690+00.00	0.00'	555596.7312	587875.3570
10106	695+00.00	0.00'	555806.2043	588329.3625
10107	840+00.00	0.00'	556013.5104	588843.1186
10108	847+00.00	0.00'	556306.7728	589478.7264

DATUM REFERENCE:
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD 83 / 2011 / EPOCH 2010.00).

ADDENDA / REVISIONS



**US 301
 MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

**HORIZONTAL AND
 VERTICAL CONTROL**

SECTION
WRA
SHEET NO.
7

CIRCULAR CURVE NO. ①			
	STATION	NORTHING	EASTING
<i>Element: Circular</i>			
PC (20027)	555+09.38	549801.0390	578416.4390
PI (20028)	563+71.69	550637.8805	578624.4623
CC ()		551730.9569	570652.7146
PT (20029)	572+27.37	551499.8299	578649.3752
Radius:	8000.0000		
Delta:	12°18'15.0000"	Left	
<i>Degree of Curvature(Arc):</i>			
	0°42'58.3101"		
Length:	1717.9858		
Tangent:	862.3093		
Chord:	1714.6865		
Middle Ordinate:	46.0725		
External:	46.3394		
Tangent Direction:	N 13°57'35.00" E		
Radial Direction:	S 76°02'25.00" E		
Chord Direction:	N 7°48'27.50" E		
Radial Direction:	S 88°20'40.00" E		
Tangent Direction:	N 1°39'20.00" E		

CIRCULAR CURVE NO. ②			
	STATION	NORTHING	EASTING
<i>Element: Circular</i>			
PC (10030)	583+49.71	552621.7005	578681.8005
PI (10031)	604+06.18	554677.3101	578741.2137
CC ()		552549.4733	581180.7569
PT (10032)	617+91.52	555015.4469	580769.6920
Radius:	2500.0000		
Delta:	78°52'49.9999"	Right	
<i>Degree of Curvature(Arc):</i>			
	2°17'30.5922"		
Length:	3441.8135		
Tangent:	2056.4681		
Chord:	3176.3679		
Middle Ordinate:	569.2821		
External:	737.1378		
Tangent Direction:	N 1°39'20.00" E		
Radial Direction:	S 88°20'40.00" E		
Chord Direction:	N 41°05'45.00" E		
Radial Direction:	S 9°27'50.00" E		
Tangent Direction:	N 80°32'10.00" E		

CIRCULAR CURVE NO. ③			
	STATION	NORTHING	EASTING
<i>Element: Circular</i>			
PC (10033)	643+38.67	555434.2632	583282.1665
PI (10034)	650+30.74	555548.0588	583964.8248
CC ()		550502.3161	584104.2963
PT (10035)	657+14.08	555472.1474	584652.7269
Radius:	5000.0000		
Delta:	15°45'40.0001"	Right	
<i>Degree of Curvature(Arc):</i>			
	1°08'45.2961"		
Length:	1375.4164		
Tangent:	692.0779		
Chord:	1371.0839		
Middle Ordinate:	47.2197		
External:	47.6699		
Tangent Direction:	N 80°32'10.00" E		
Radial Direction:	S 9°27'50.00" E		
Chord Direction:	N 88°25'00.00" E		
Radial Direction:	S 6°17'50.00" W		
Tangent Direction:	S 83°42'10.00" E		

CIRCULAR CURVE NO. ④			
	STATION	NORTHING	EASTING
<i>Element: Circular</i>			
PC (10037)	673+74.74	555289.9967	586303.3609
PI (10038)	681+11.27	555209.2089	587035.4534
CC ()		557924.0074	586594.0291
PT (10039)	688+11.54	555517.7782	587704.2367
Radius:	2650.0000		
Delta:	31°03'55.0855"	Left	
<i>Degree of Curvature(Arc):</i>			
	2°09'43.5776"		
Length:	1436.8083		
Tangent:	736.5366		
Chord:	1419.2736		
Middle Ordinate:	96.7833		
External:	100.4520		
Tangent Direction:	S 83°42'10.00" E		
Radial Direction:	S 6°17'50.00" W		
Chord Direction:	N 80°45'52.46" E		
Radial Direction:	S 24°46'05.09" E		
Tangent Direction:	N 65°13'54.91" E		

ADDENDA / REVISIONS

NOT TO SCALE

**US 301
MEDIAN BARRIER**

CONTRACT

T202211301

COUNTY

NEW CASTLE

BRIDGE NO.

DESIGNED BY:

CHECKED BY:

N/A

S. BEALL

T. OLIVER

**HORIZONTAL AND
VERTICAL CONTROL**

SECTION

WRA

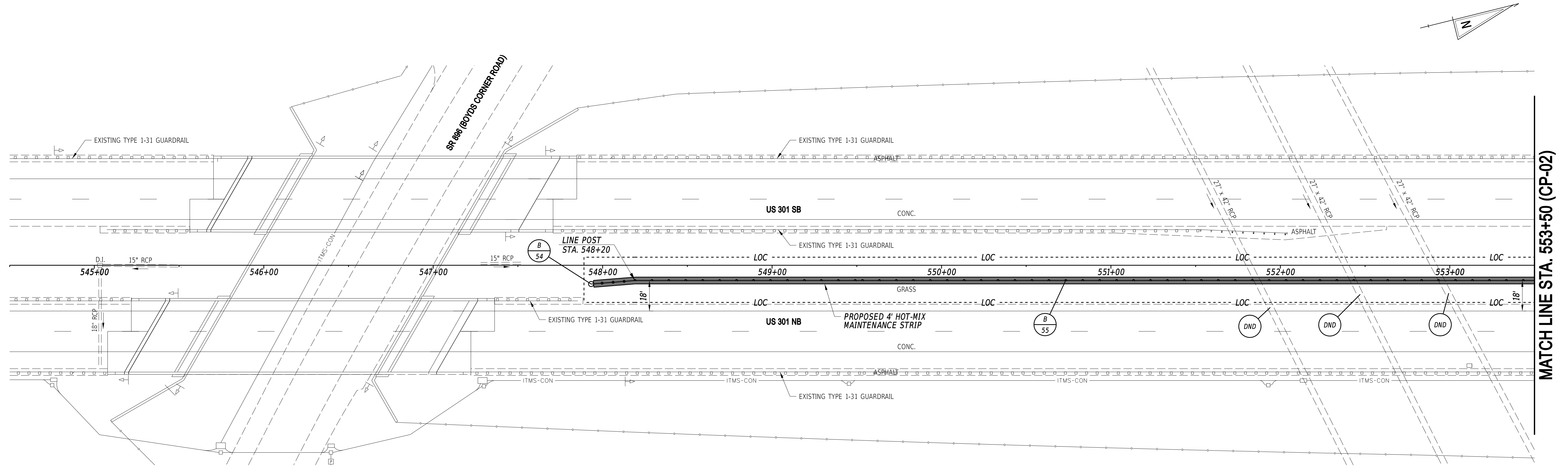
SHEET NO.

8

BARRIER END SECTION SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	EACH
54	TL-3 END ANCHORAGE *	1

*NOTE: LENGTH DEPENDS ON MANUFACTURER

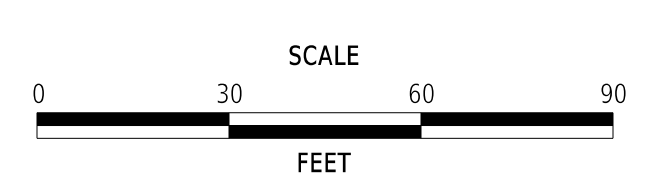
BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
55	TL-4 HIGH TENSION CABLE BARRIER	530'



MATCH LINE STA. 553+50 (CP-02)

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ADDENDA / REVISIONS



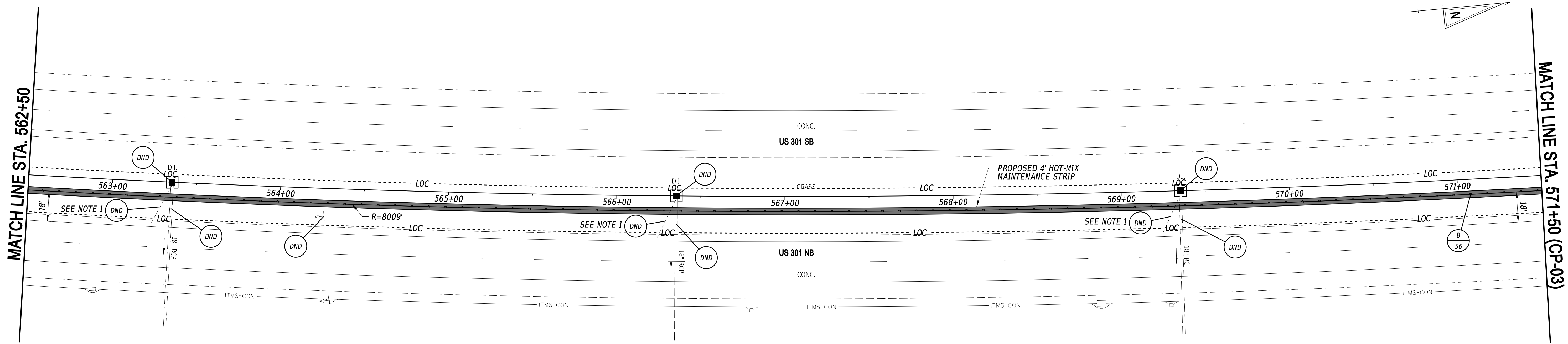
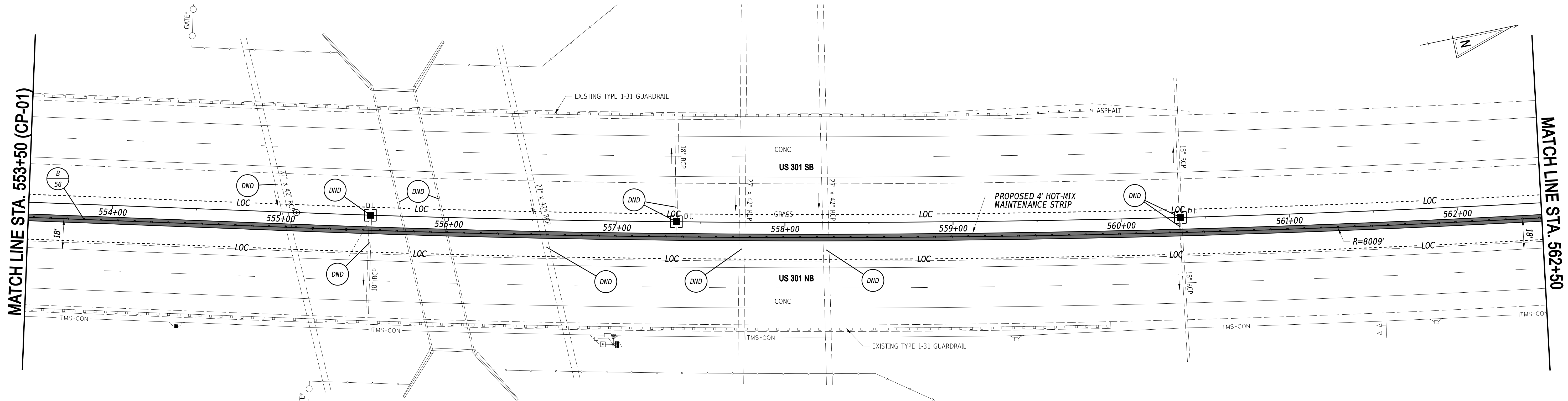
US 301 MEDIAN BARRIER

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN	
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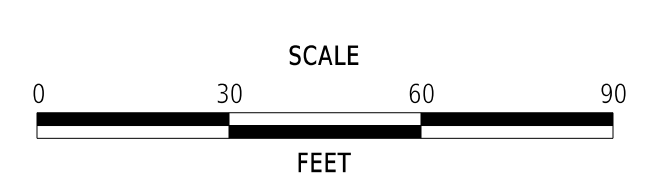
CP-01
SECTION
WRA
SHEET NO.
9

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
56	TL-4 HIGH TENSION CABLE BARRIER	1800'



NOTES:
 1. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



**US 301
 MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-02
SECTION
WRA
SHEET NO.
10

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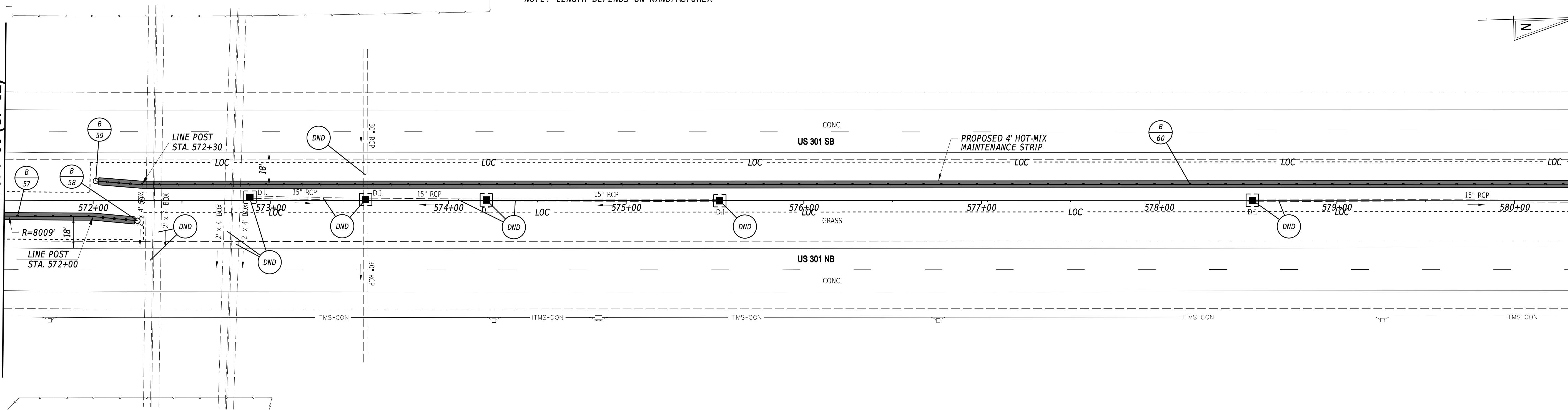
BARRIER END SECTION SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	EACH
58	TL-3 END ANCHORAGE *	1
59	TL-3 END ANCHORAGE *	1

*NOTE: LENGTH DEPENDS ON MANUFACTURER

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
57	TL-4 HIGH TENSION CABLE BARRIER	50'
60	TL-4 HIGH TENSION CABLE BARRIER	1720'

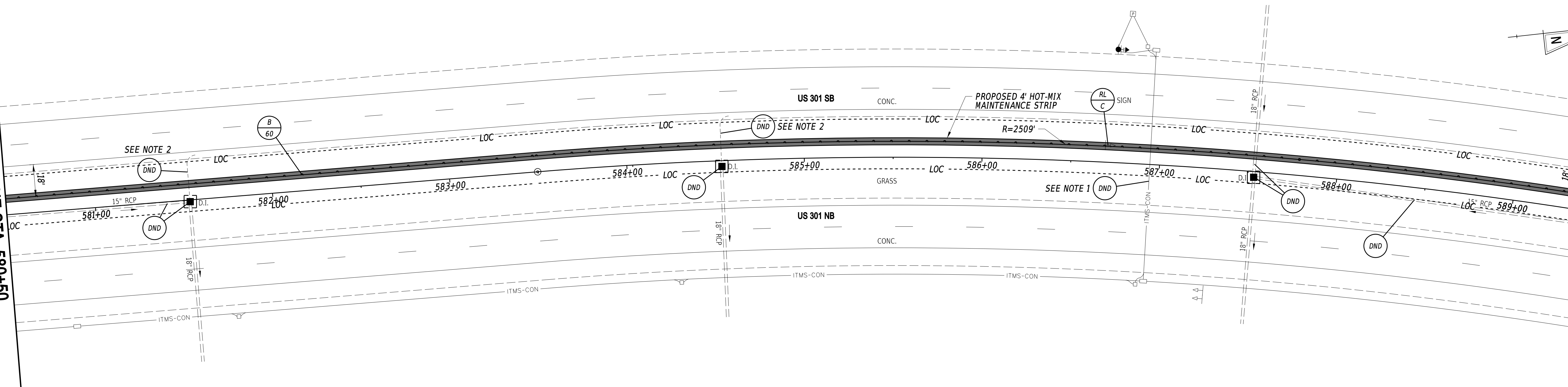
MATCH LINE STA. 571+50 (CP-02)

MATCH LINE STA. 580+50



MATCH LINE STA. 580+50

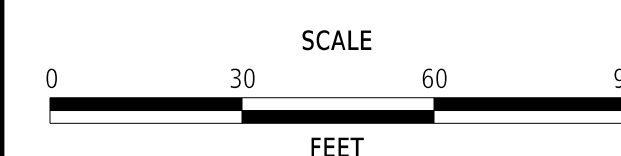
MATCH LINE STA. 589+50 (CP-04)



NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH UTILITIES TO LOCATE THE EXISTING UNDERGROUND FACILITIES. POST SPACING SHALL BE ADJUSTED ACCORDINGLY TO AVOID CONFLICT.
2. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



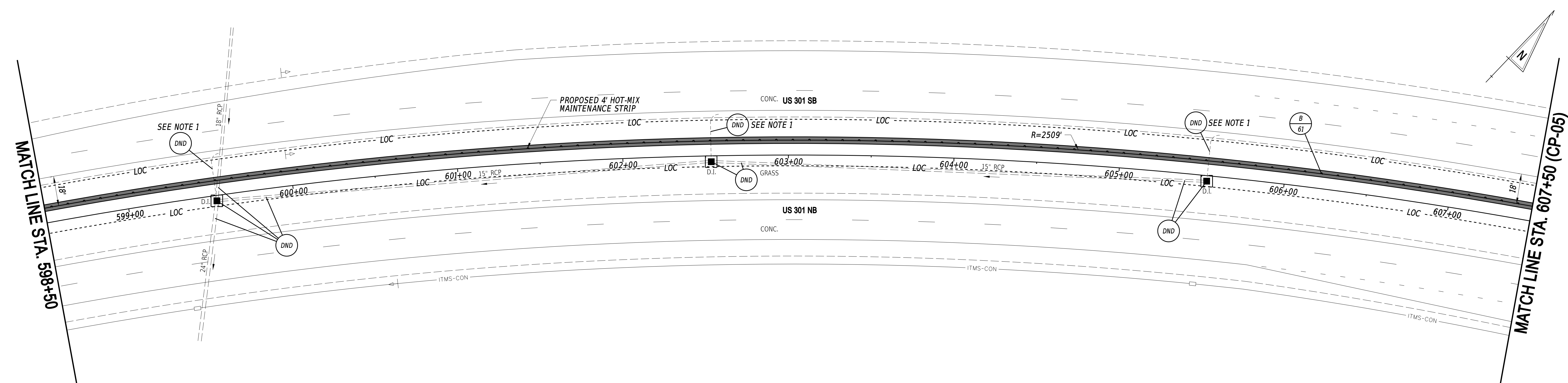
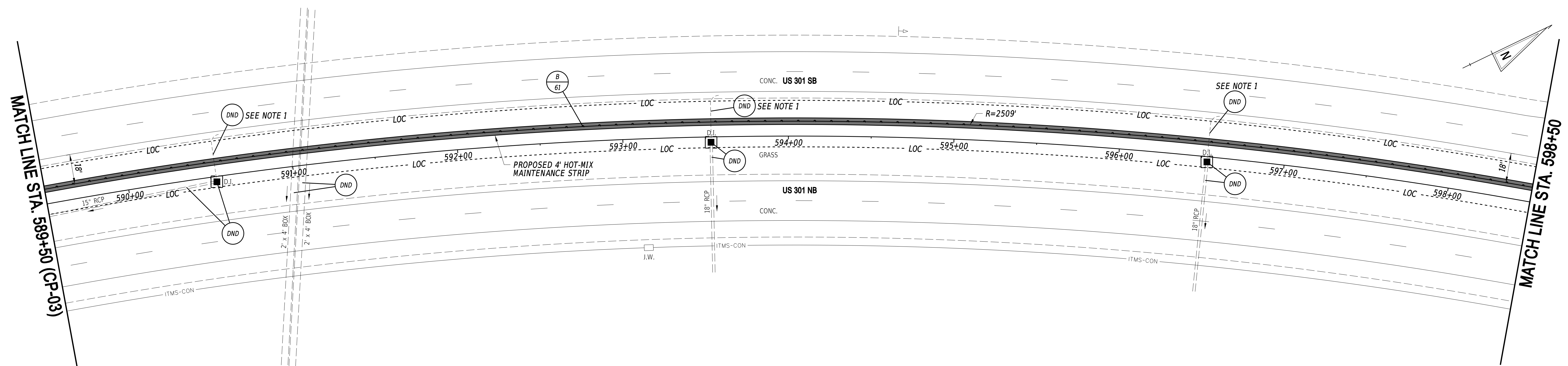
**US 301
MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

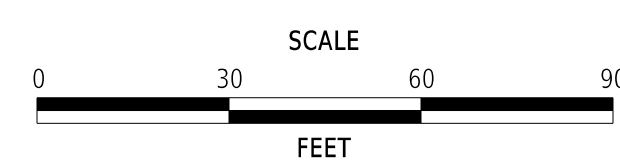
CP-03
SECTION
WRA
SHEET NO.
11

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
61	TL-4 HIGH TENSION CABLE BARRIER	1800'



NOTES:
 1. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



**US 301
 MEDIAN BARRIER**

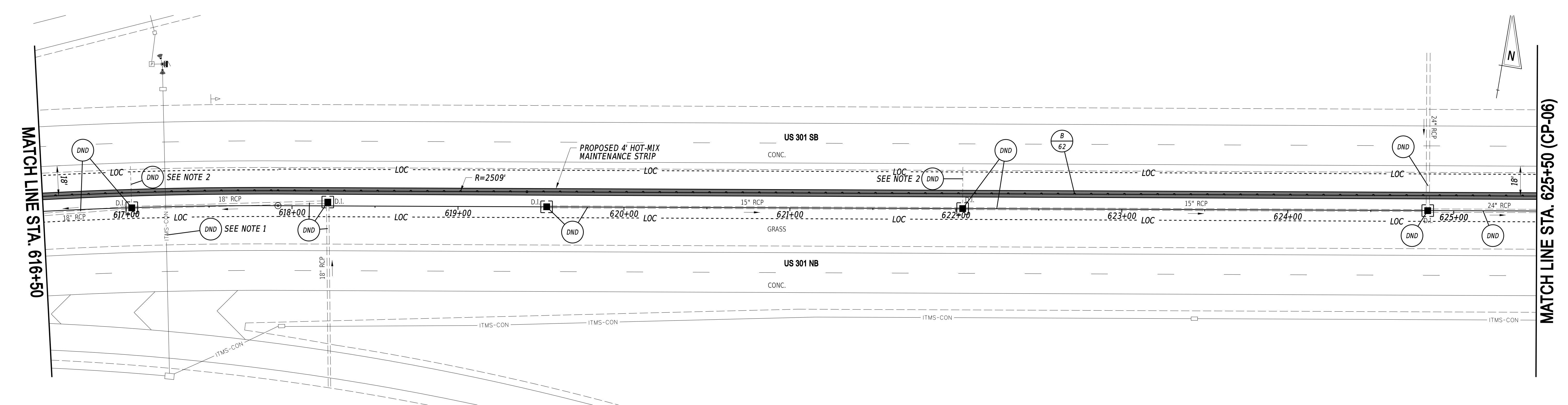
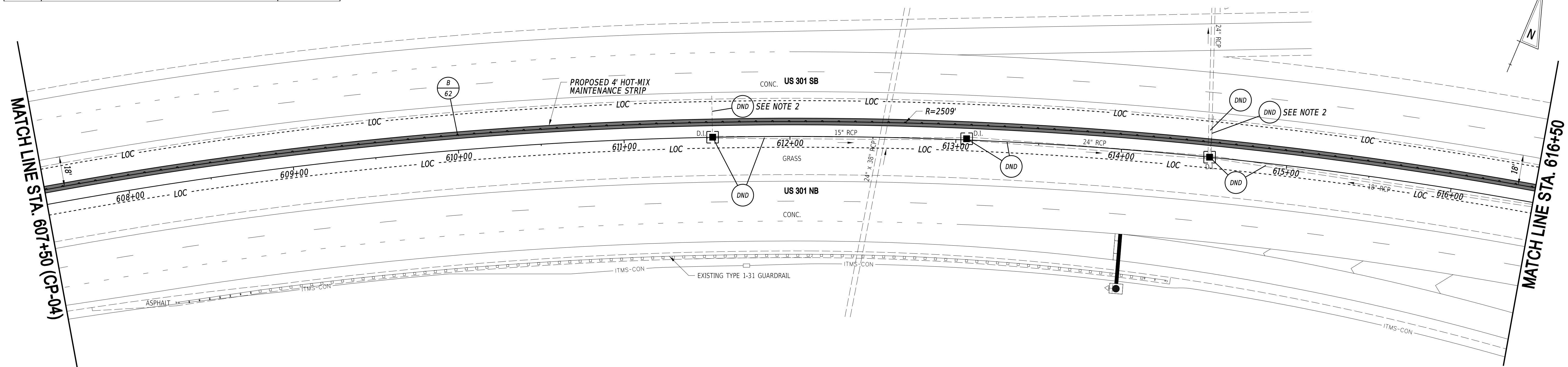
CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-04
SECTION
WRA
SHEET NO.
12

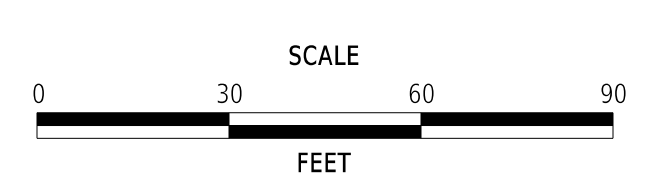
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BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
62	TL-4 HIGH TENSION CABLE BARRIER	1800'



- NOTES:**
1. THE CONTRACTOR SHALL COORDINATE WITH UTILITES TO LOCATE THE EXISTING UNDERGROUND FACILITIES. POST SPACING SHALL BE ADJUSTED ACCORDINGLY TO AVOID CONFLICT.
 2. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



**US 301
MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

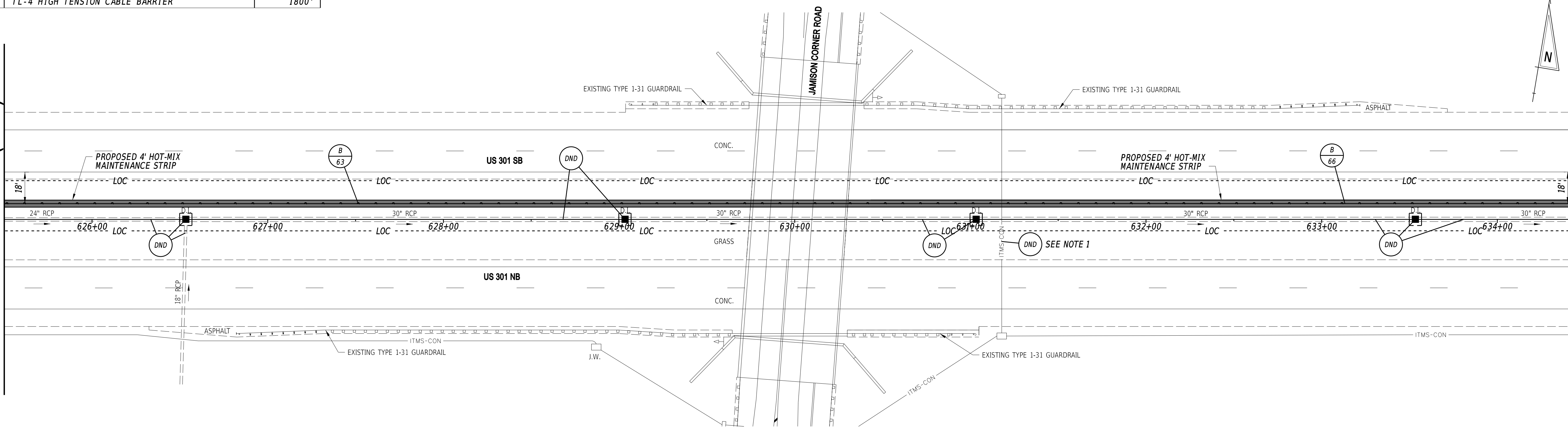
CP-05
SECTION
WRA
SHEET NO.
13

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BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
63	TL-4 HIGH TENSION CABLE BARRIER	1800'

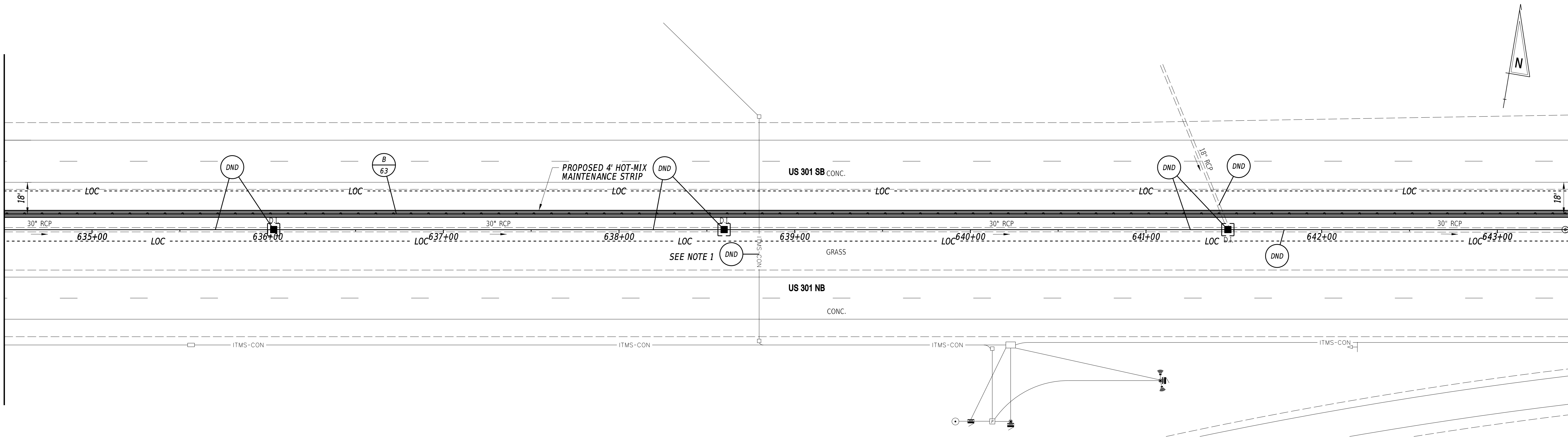
MATCH LINE STA. 625+50 (CP-05)

MATCH LINE STA. 634+50



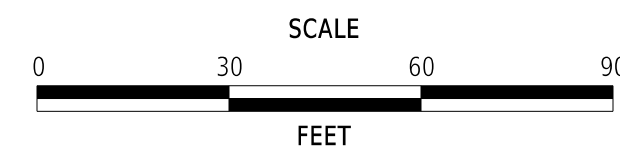
MATCH LINE STA. 634+50

MATCH LINE STA. 643+50 (CP-07)



NOTES:
 1. THE CONTRACTOR SHALL COORDINATE WITH UTILITES TO LOCATE THE EXISTING UNDERGROUND FACILITIES. POST SPACING SHALL BE ADJUSTED ACCORDINGLY TO AVOID CONFLICT.

ADDENDA / REVISIONS



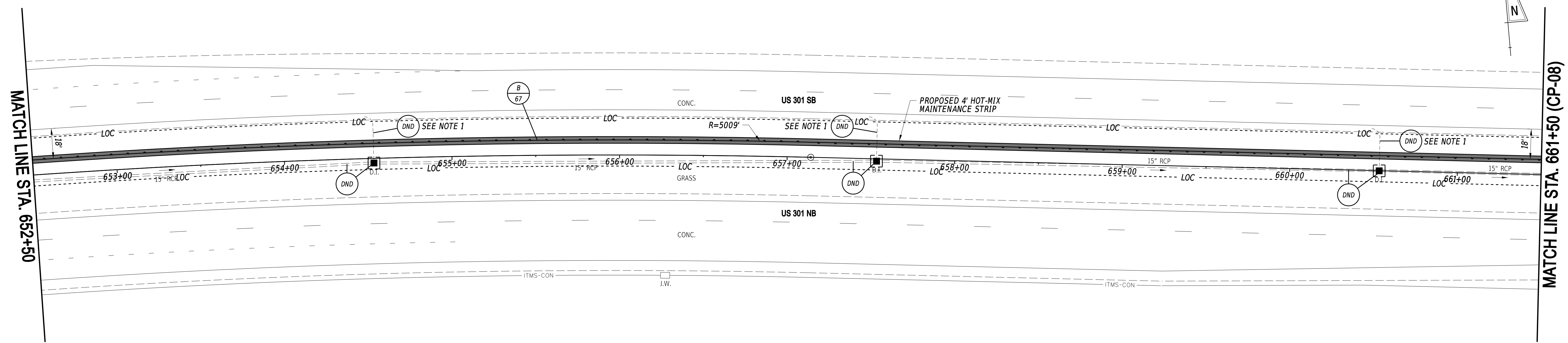
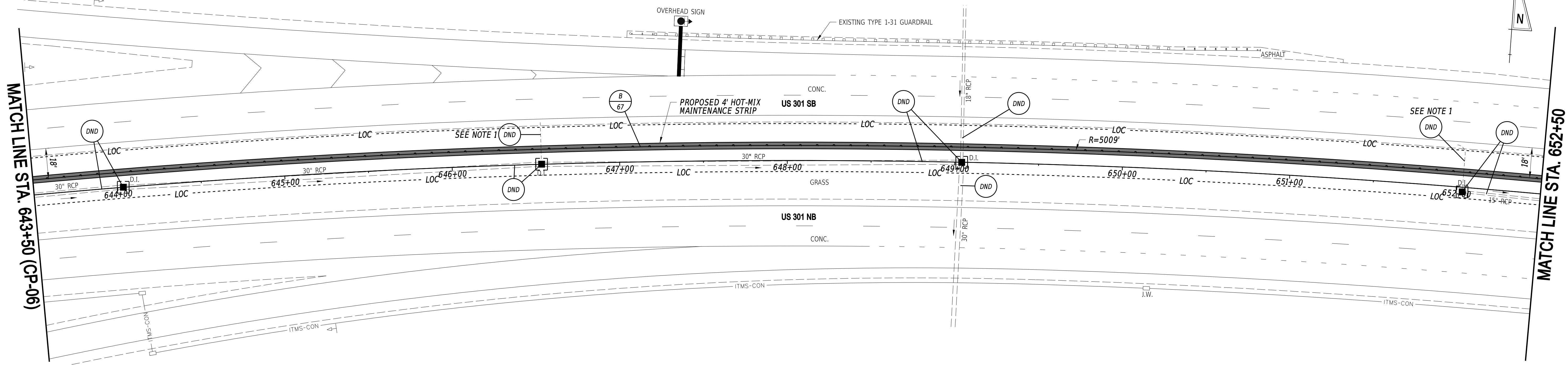
**US 301
 MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

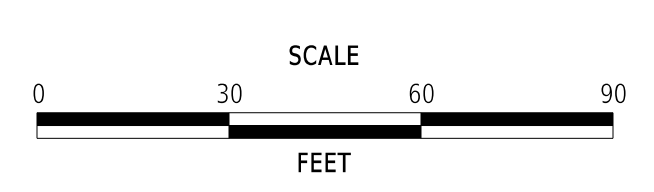
CP-06
SECTION
WRA
SHEET NO.
14

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
67	TL-4 HIGH TENSION CABLE BARRIER	1800'



NOTES:
 1. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



**US 301
 MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-07
SECTION
WRA
SHEET NO.
15

12/16/2024
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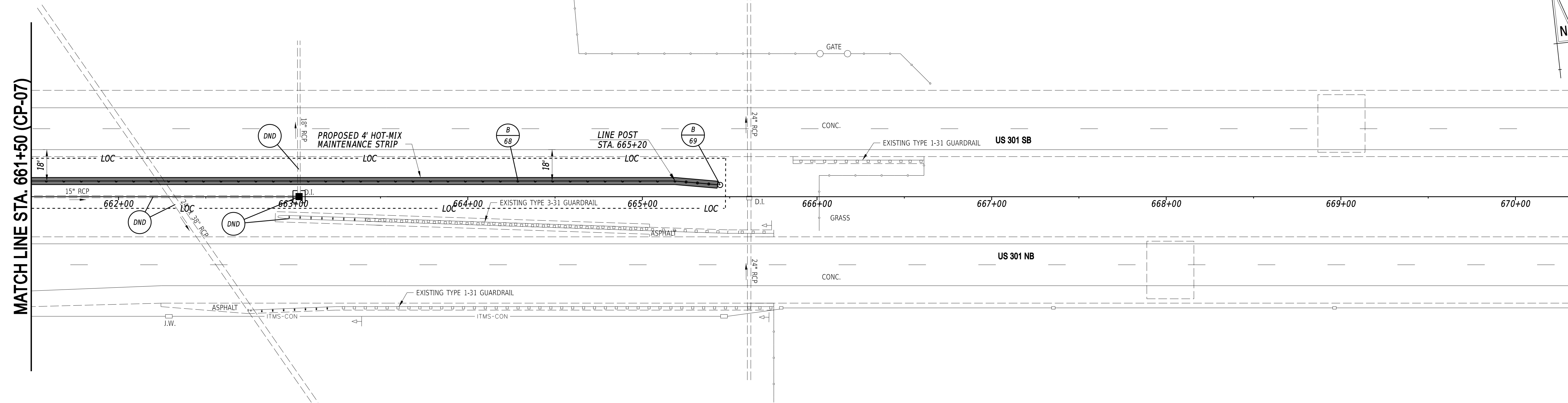
BARRIER END SECTION SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	EACH
69	TL-3 END ANCHORAGE *	1
70	TL-3 END ANCHORAGE *	1

*NOTE: LENGTH DEPENDS ON MANUFACTURER

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
68	TL-4 HIGH TENSION CABLE BARRIER	370'
71	TL-4 HIGH TENSION CABLE BARRIER	100'

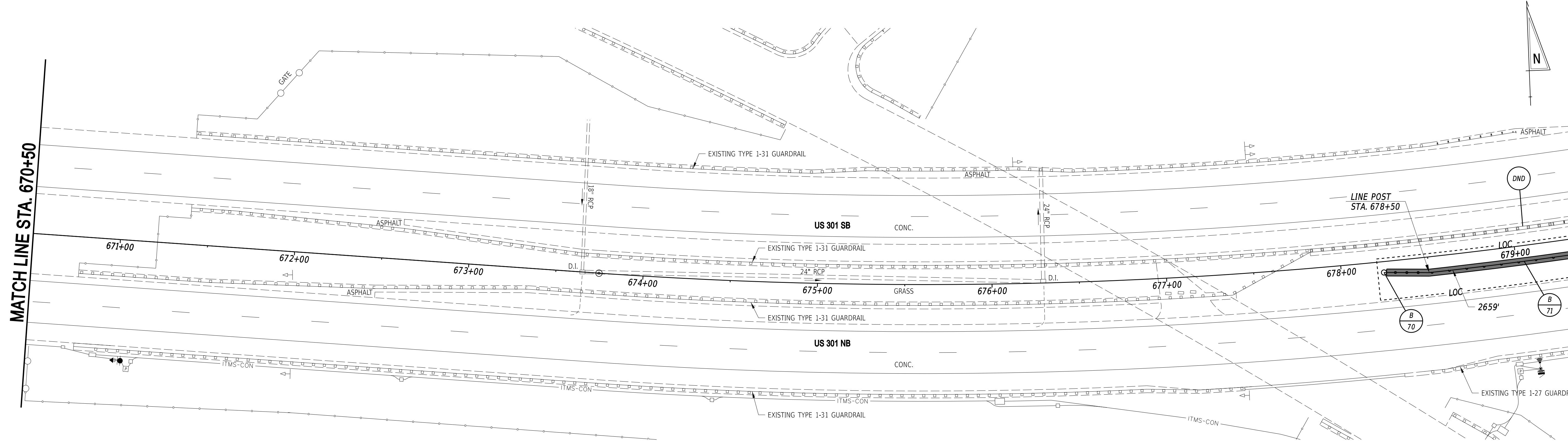
MATCH LINE STA. 661+50 (CP-07)

MATCH LINE STA. 670+50

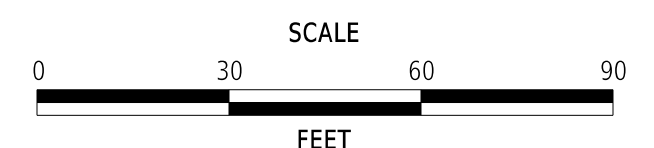


MATCH LINE STA. 670+50

MATCH LINE STA. 679+50 (CP-09)



ADDENDA / REVISIONS



US 301
MEDIAN BARRIER

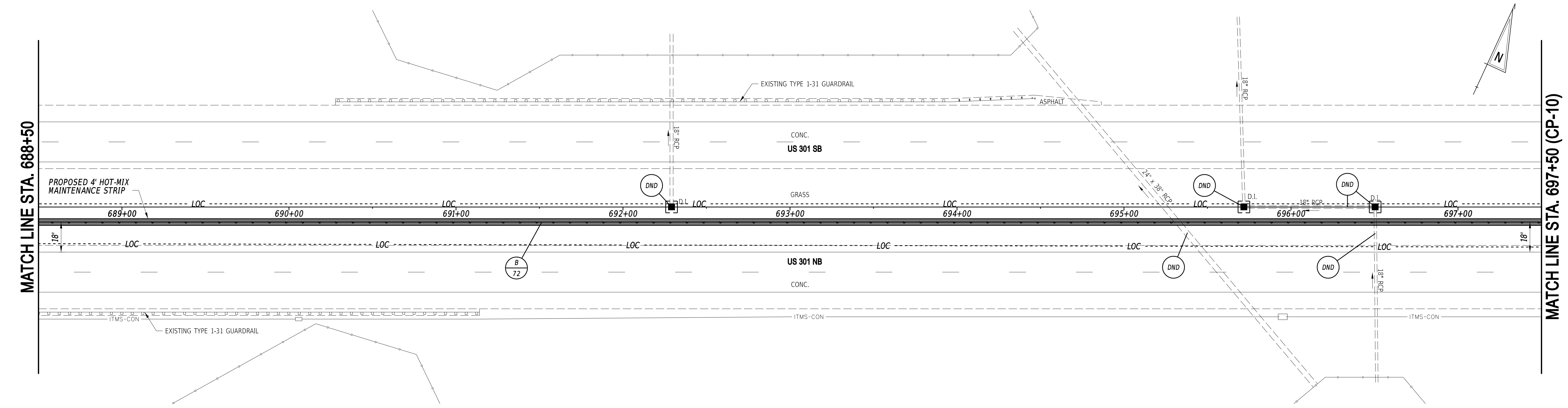
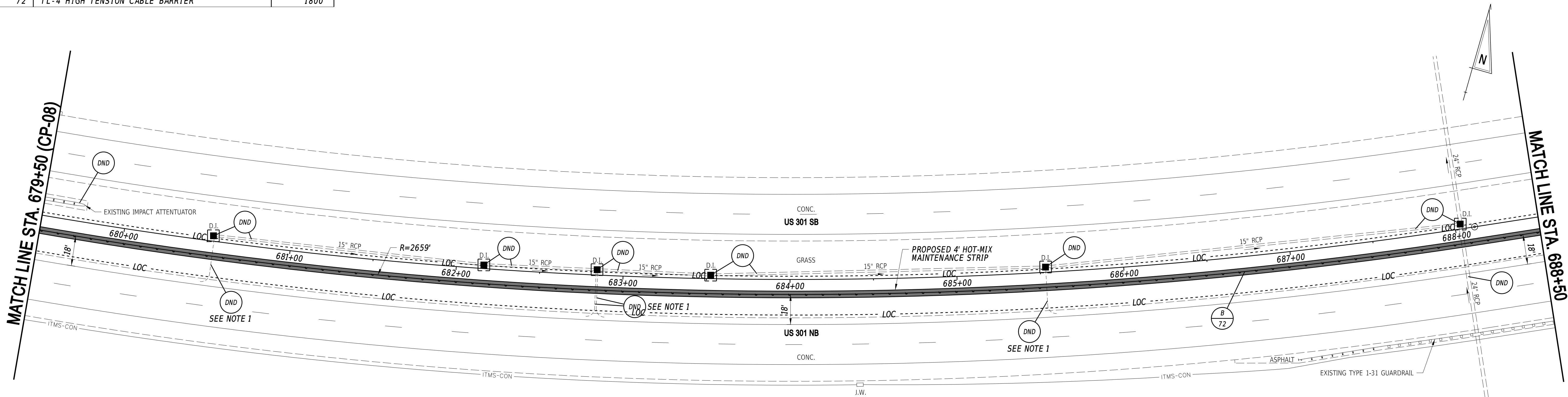
CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-08
SECTION
WRA
SHEET NO.
16

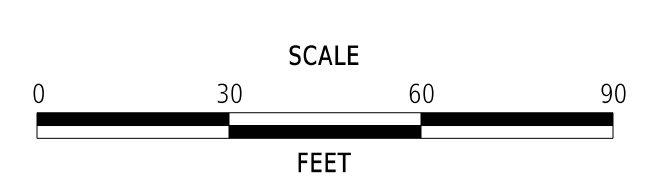
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BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
72	TL-4 HIGH TENSION CABLE BARRIER	1800'



NOTES:
 1. THE CONTRACTOR SHALL ADJUST POST SPACING WHERE NEEDED TO AVOID CONFLICT WITH UNDERDRAIN.

ADDENDA / REVISIONS



**US 301
 MEDIAN BARRIER**

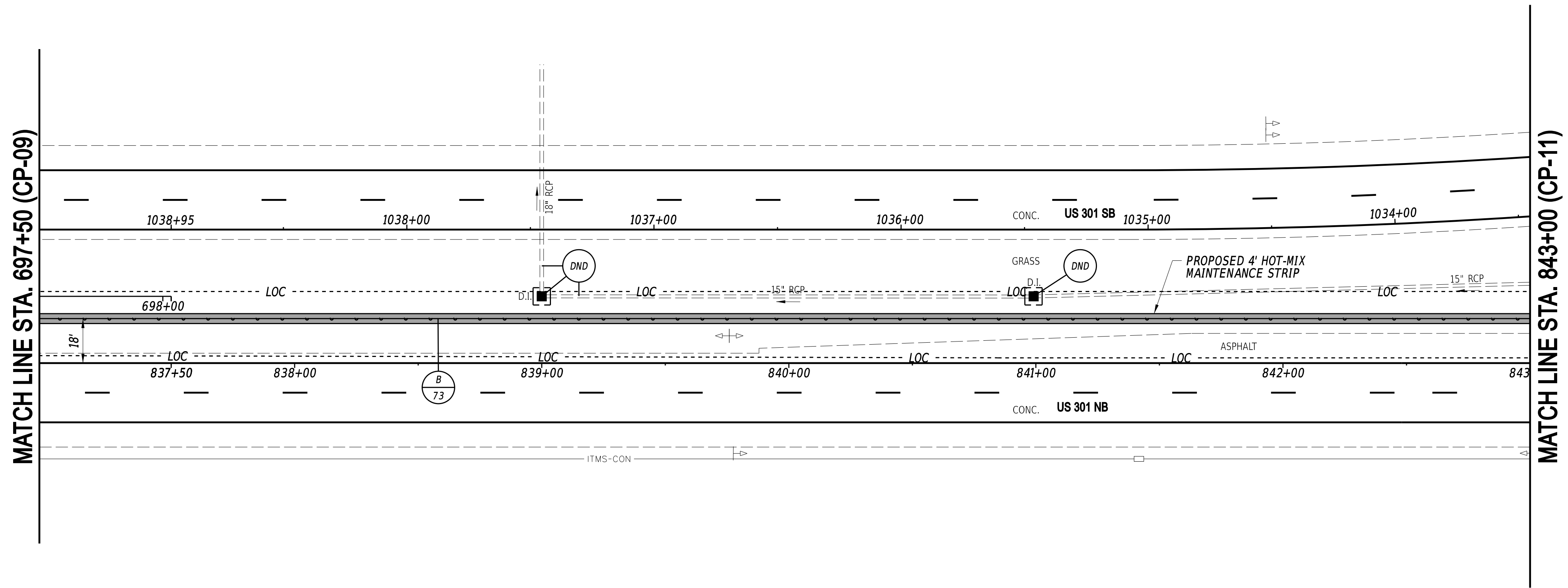
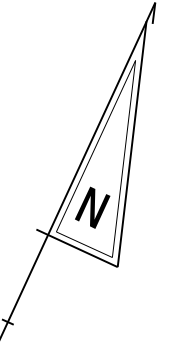
CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-09
SECTION
WRA
SHEET NO.
17

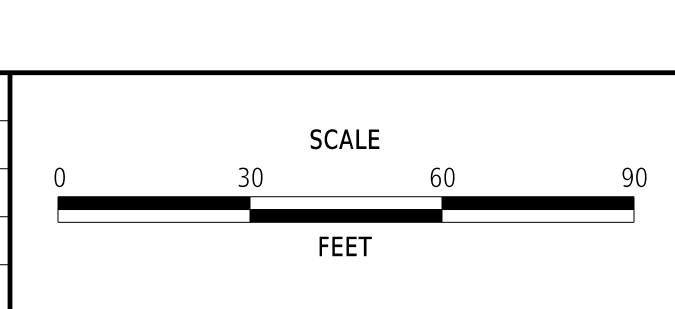
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BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
73	TL-4 HIGH TENSION CABLE BARRIER	600'



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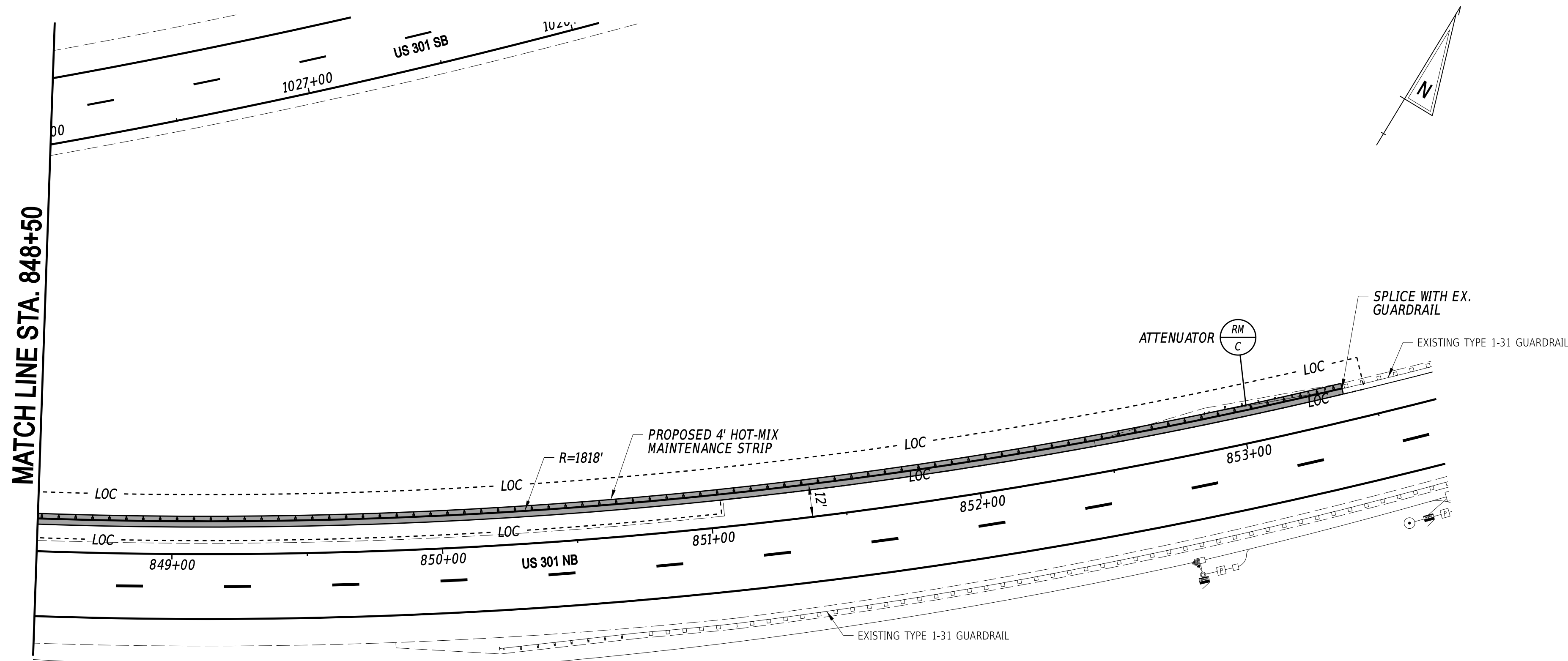
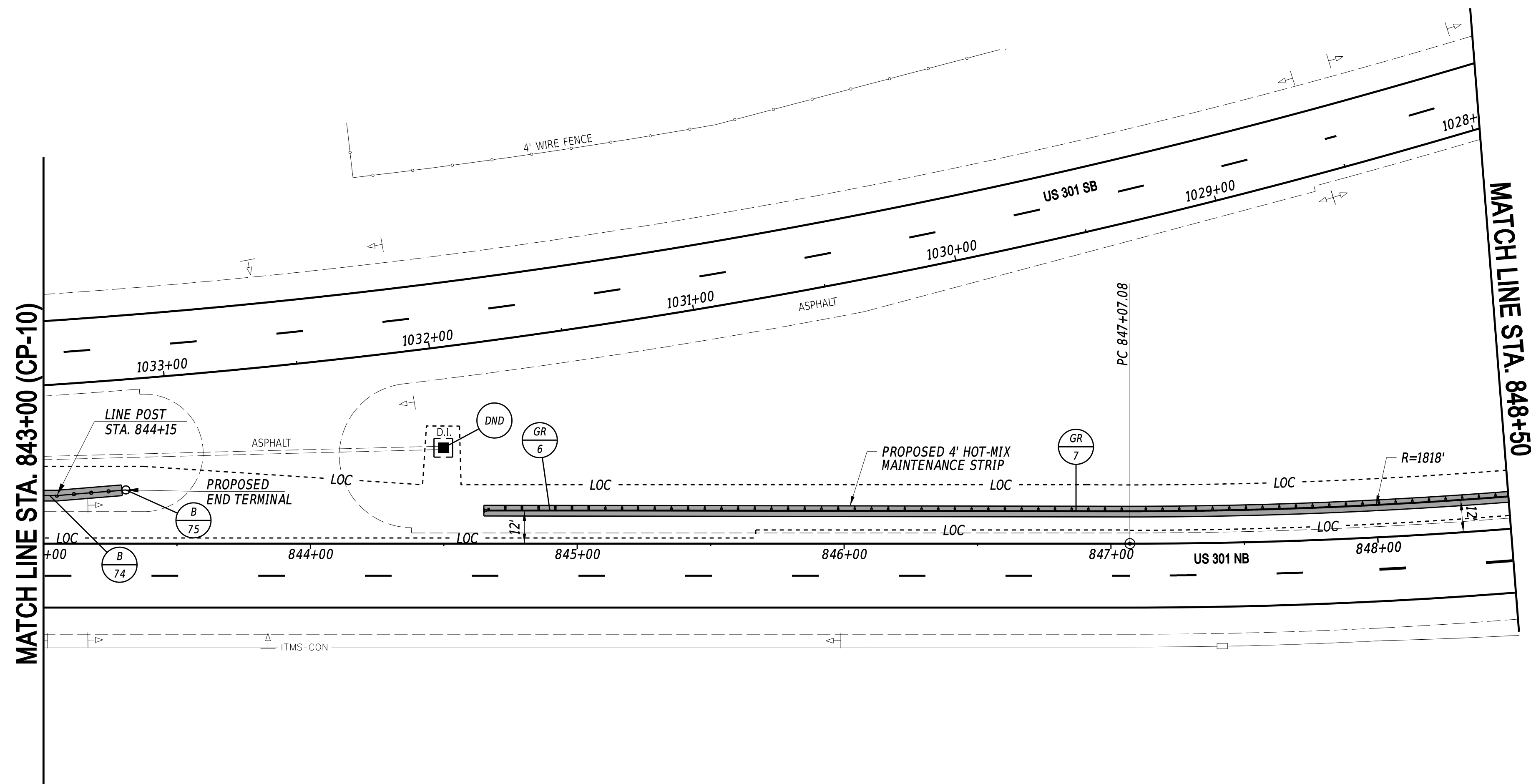
ADDENDA / REVISIONS



**US 301
MEDIAN BARRIER**

CONTRACT T202211301	BRIDGE NO. N/A
COUNTY NEW CASTLE	DESIGNED BY: S. BEALL
	CHECKED BY: T. OLIVER

CONSTRUCTION PLAN	SECTION CP-10
	WRA
	SHEET NO. 18



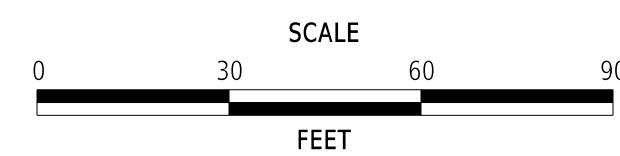
BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
74	TL-4 HIGH TENSION CABLE BARRIER	5'

BARRIER END SECTION SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	EACH
75	TL-3 END ANCHORAGE *	1

*NOTE: LENGTH DEPENDS ON MANUFACTURER

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
6	GR END TREATMENT ATTENUATOR, TYPE 1-31	844+65	12.00 LT.	50'
7	GALV. STEEL BEAM GR, TYPE 1-31	845+15	12.00 LT.	820'

ADDENDA / REVISIONS

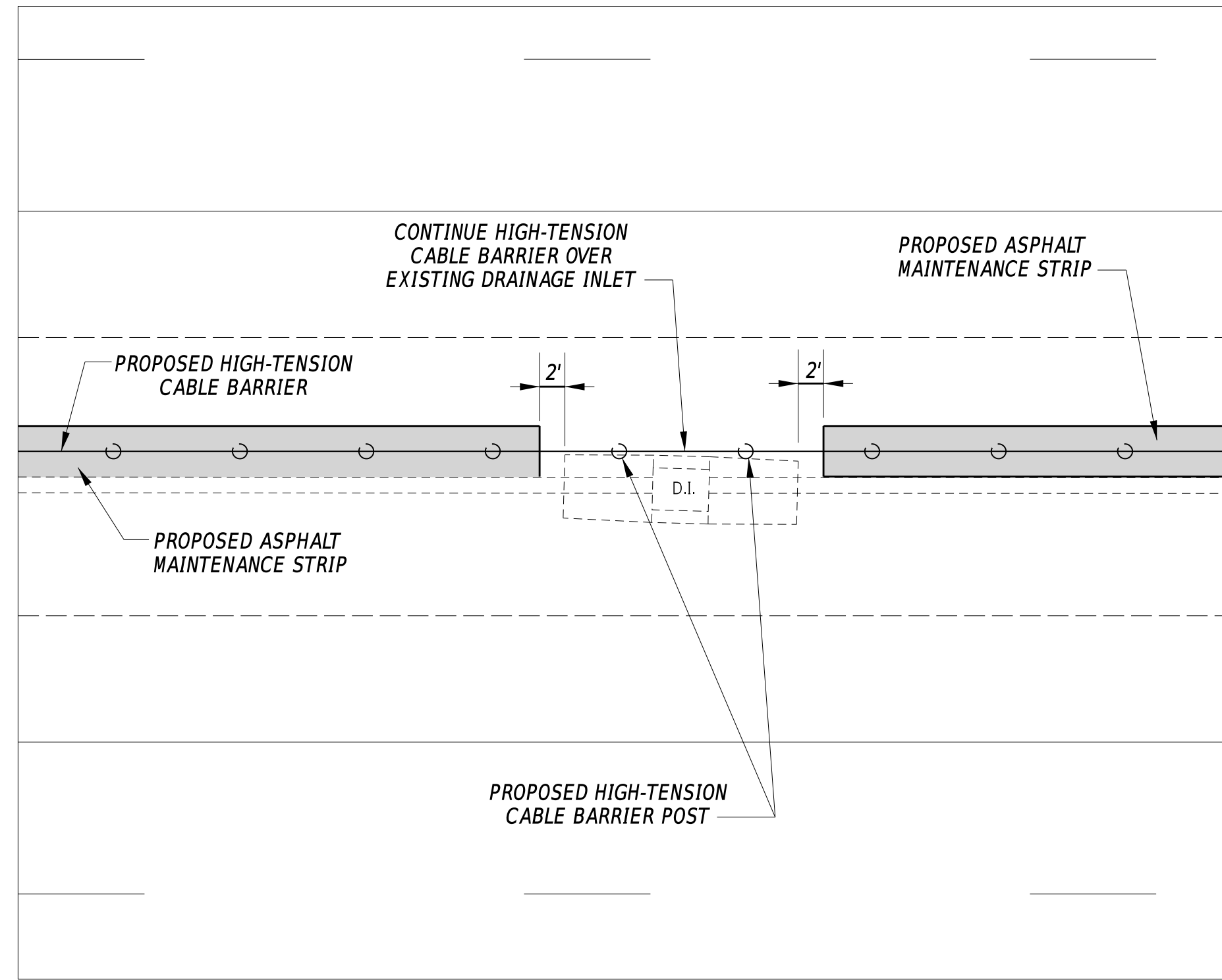


**US 301
MEDIAN BARRIER**

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

CONSTRUCTION PLAN

CP-11
SECTION
WRA
SHEET NO.
19



**HIGH-TENSION CABLE BARRIER PASSING OVER
DRAINAGE INLET DETAIL
PLAN VIEW**

12/16/2024
9:56:49 AM
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ADDENDA / REVISIONS		NOT TO SCALE	US 301 MEDIAN BARRIER			CONTRACT	BRIDGE NO.	N/A	CONSTRUCTION DETAILS	SECTION
						T202211301	DESIGNED BY: S. BEALL			WRA
						COUNTY	CHECKED BY: T. OLIVER			SHEET NO.
						NEW CASTLE				20

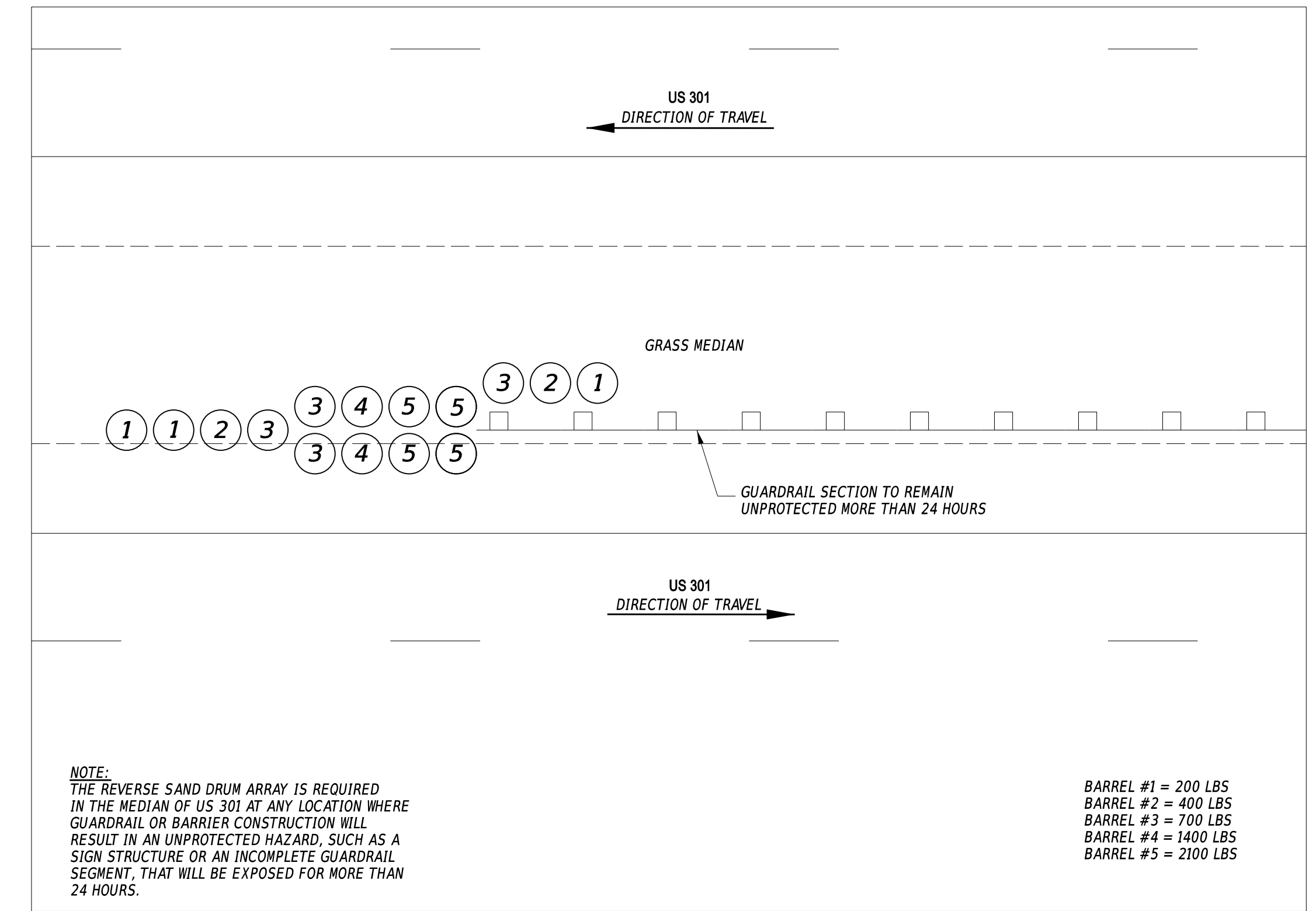
NOTES:

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND SHOULDER CLOSURES SHALL CONFORM TO THE FOLLOWING TYPICAL APPLICATIONS OF THE DELAWARE MUTCD:
 - TYPICAL APPLICATION 5A - SHOULDER CLOSURE ON AN INTERSTATE, FREEWAY, OR EXPRESSWAY FOR WORK BEYOND THE SHOULDER GREATER THAN 10 FEET FROM THE EDGE OF THE TRAVELED WAY
 - TYPICAL APPLICATION 5B - STATIONARY LANE CLOSURE FOR SHOULDER WORK 10 FEET FROM THE EDGE OF THE TRAVELED WAY ON AN INTERSTATE, FREEWAY OR EXPRESSWAY.
 - TYPICAL APPLICATION 33 - STATIONARY LANE CLOSURE ON A MULTI-LANE, DIVIDED HIGHWAY.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
4. ACCESS TO ALL EXISTING PAVED EMERGENCY MEDIAN CROSSOVERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AND SHALL NOT BE USED BY THE CONTRACTOR AT ANY TIME.
5. ALL WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL TO ITEM 801000 - MAINTENANCE OF TRAFFIC.
6. NO EQUIPMENT SHALL BE STORED IN THE MEDIAN, OR WITHIN THE CLEAR ZONE, AT ANY TIME DURING NON-WORKING HOURS.
7. THE CONTRACTOR SHALL SUPPLY MESSAGE BOARDS UNDER ITEM 803001 - FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN (PCMS). MOVING THE MESSAGE BOARDS TO DIFFERENT LOCATIONS DURING CONSTRUCTION WILL BE INCIDENTAL TO ITEM 803001. MESSAGE BOARDS SHALL BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION AND ANY CHANGES IN TRAFFIC PATTERNS AND MUST REMAIN IN PLACE FOR FIVE (5) DAYS AFTER WORK HAS STARTED. THE MESSAGE AND LOCATION OF EACH PCMS SHALL BE APPROVED BY THE DISTRICT TRAFFIC SAFETY OFFICER.
8. IF ANY EXISTING RUMBLE STRIPS ARE REMOVED OR IMPACTED BY CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND BY THE CONTRACTOR. PAYMENT FOR THIS WORK WILL BE INCIDENTAL TO ITEM 801000.
9. ALL EXISTING TRAVEL LANES ALONG US 301 SHALL BE RESTORED AT THE END OF EACH WORK DAY.
10. TRAFFIC IMPACTS DUE TO CONSTRUCTION ACTIVITIES SHALL BE GOVERNED BY THE FOLLOWING RESTRICTIONS:
 - TEMPORARY STATIONARY LANE CLOSURES ARE PERMITTED BASED ON THE TABLE BELOW.
 - TEMPORARY STATIONARY LANE CLOSURES ARE NOT PERMITTED TO EXCEED A TOTAL LENGTH OF ONE MILE AT ANY TIME.

US 301 ALLOWABLE LANE CLOSURE HOURS

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY																								
MONDAY																								
TUESDAY																								
WEDNESDAY																								
THURSDAY																								
FRIDAY																								
SATURDAY																								

2 to 1 lane reduction permitted
 all lanes open



REVERSE SAND DRUM ARRAY DETAIL
PLAN VIEW

12/16/2024 9:56:50 AM N:\32128-062\CADD\Section 3 Sheets\CS01_301MB.dgn

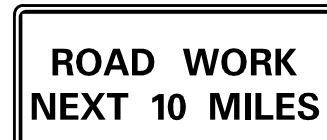
ADDENDA / REVISIONS	NOT TO SCALE	US 301 MEDIAN BARRIER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CONTRACT</td> <td>BRIDGE NO.</td> <td style="text-align: center;">N/A</td> </tr> <tr> <td>T202211301</td> <td>DESIGNED BY:</td> <td>S. BEALL</td> </tr> <tr> <td>COUNTY</td> <td>CHECKED BY:</td> <td>T. OLIVER</td> </tr> <tr> <td>NEW CASTLE</td> <td></td> <td></td> </tr> </table>	CONTRACT	BRIDGE NO.	N/A	T202211301	DESIGNED BY:	S. BEALL	COUNTY	CHECKED BY:	T. OLIVER	NEW CASTLE			GENERAL TRAFFIC CONTROL NOTES	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SECTION</td> </tr> <tr> <td>WRA</td> </tr> <tr> <td>SHEET NO.</td> </tr> <tr> <td style="text-align: center;">21</td> </tr> </table>	SECTION	WRA	SHEET NO.	21
CONTRACT	BRIDGE NO.	N/A																			
T202211301	DESIGNED BY:	S. BEALL																			
COUNTY	CHECKED BY:	T. OLIVER																			
NEW CASTLE																					
SECTION																					
WRA																					
SHEET NO.																					
21																					

WARNING SIGN LEGEND



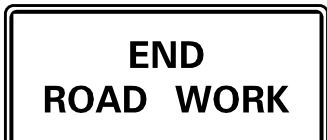
W20-1
60" x 60"

1



G20-1
48" x 24"

2



G20-2
48" x 24"

3



R2-10
24" x 36"

4

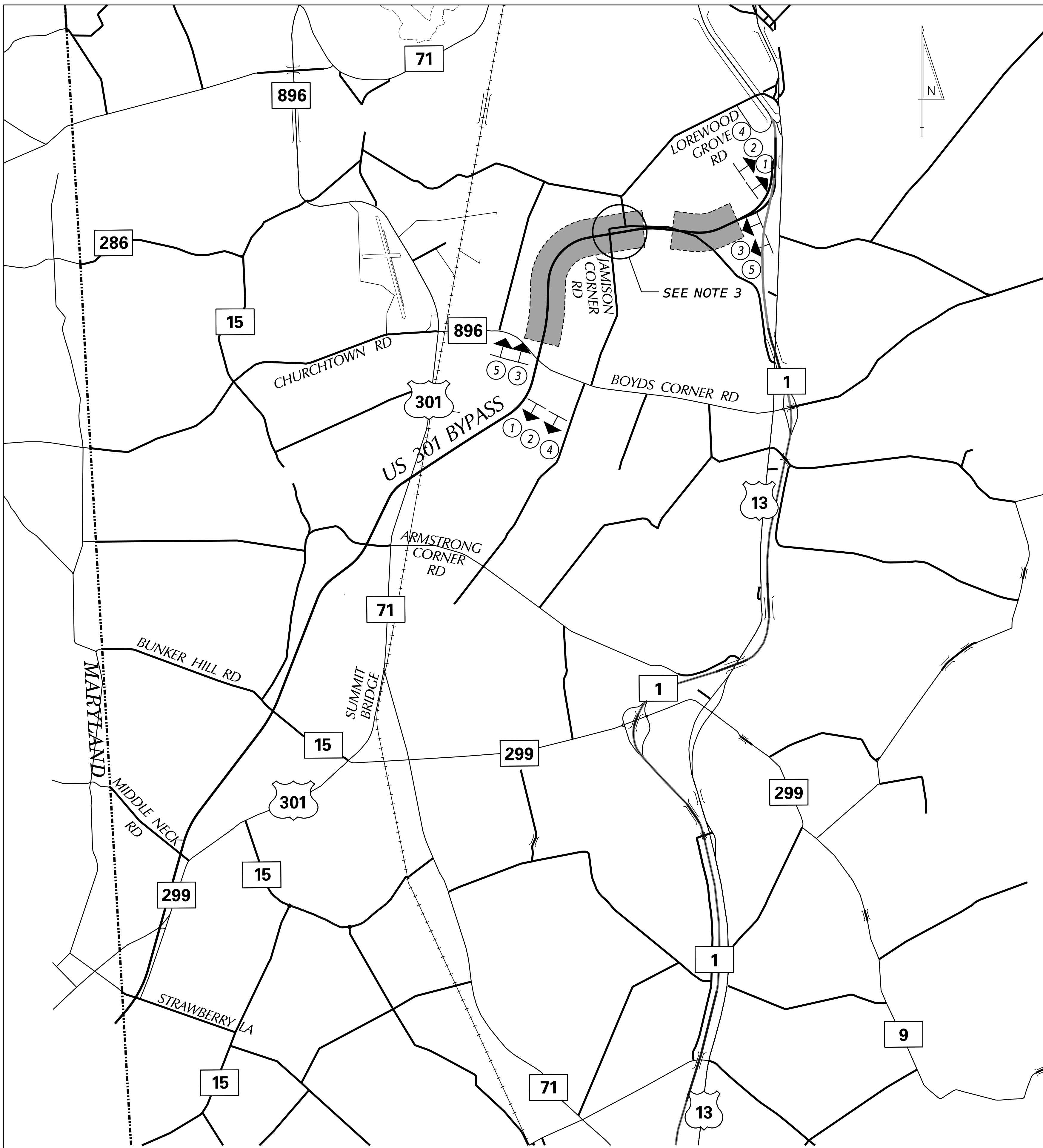


R2-11
24" x 36"

5

NOTES:

1. PLACE ALL WARNING SIGNS PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL WARNING SIGNS SHALL BE PAID FOR UNDER ITEM 810001 - TEMPORARY WARNING SIGNS AND PLAQUES.
2. ALL WARNING SIGNS LOCATED ALONG US 301 SHALL BE PLACED IN THE MEDIAN AND ALONG THE RIGHT SIDE OF THE ROADWAY.
3. W20-1 AND G20-2 SIGNS SHALL BE PLACED ALONG ACCESS RAMPS AT ALL INTERCHANGES IN THE PROJECT LIMITS, INCLUDING JAMISON CORNER ROAD AND SR 1.



ADDENDA / REVISIONS

NOT TO SCALE

US 301
MEDIAN BARRIER

CONTRACT	BRIDGE NO.	N/A
T202211301	DESIGNED BY:	S. BEALL
COUNTY	CHECKED BY:	T. OLIVER
NEW CASTLE		

WARNING SIGN
LOCATION PLAN

SECTION
WRA
SHEET NO.
22