

GENERAL NOTES

- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDED AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
() INSIGNIFICANT	NONE
(X) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

- ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

(X)	NONE
()	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
()	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
()	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, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

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.

- AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR.

- THE DISTURBED AREA FOR THIS PROJECT IS N/A ACRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
- THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

- THE DEPARTMENT RESERVES THE RIGHT TO INCREASE OR DECREASE THE QUANTITIES OF PAY ITEMS SPECIFIED FOR THE STRUCTURES LISTED IN THIS CONTRACT. SUCH ADDITIONS OR DELETIONS SHALL NOT BE CAUSE FOR AN INCREASE OR DECREASE IN ANY CONTRACT UNIT BID PRICES. THE "CHANGE" THRESHOLD OF PLUS OR MINUS 25%, AS DESCRIBED IN SECTION 104.05 OF THE DELDOT STANDARD SPECIFICATIONS, SHALL NOT APPLY TO THIS CONTRACT.
- 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.

SECTION 200

- THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLE SHALL BE INCIDENTAL TO ITEM 202001 - EXCAVATION AND EMBANKMENT.
- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - EXISTING GUARDRAIL
 - EXISTING UTILITY SUPPORT STEEL

SECTION 300

SECTION 400

SECTION 500

SECTION 600

PCC MASONRY - ABUTMENTS, PIERS, WINGWALLS, ETC.

- SUBMITTALS FOR WET AND DRY APPLICATIONS ARE REQUIRED FOR ITEM 602611, REPAIR OF CONCRETE STRUCTURE BY EPOXY INJECTION.
- POWER WASHING OF HORIZONTAL SURFACES (PIER CAPS AND ABUTMENTS) SITE SPECIFIC PROJECT NOTES REQUIRE SEALING OF HORIZONTAL SURFACES ON PIER CAPS AND ABUTMENTS. PRIOR TO APPLICATION OF SEALANT, THE HORIZONTAL SURFACES MUST BE PREPARED IN ACCORDANCE WITH THE SPECIFIED SPECIAL PROVISION. WHEN USING PRESSURE WASH, CONTRACTOR SHALL PROTECT ROADSIDE DRAINAGE INLETS AND ABOVE GROUND DRAINAGE SYSTEMS AS NECESSARY TO COMPLY WITH DELDOT NPDES ENVIRONMENTAL PERMIT (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM).
- WHEN PERFORMING SPALL REPAIRS ON VERTICAL CONCRETE SURFACES UNDER PAY ITEM 602586, THE PRODUCT DATA SHEET FOR PROPOSED MATERIAL MUST STATE THAT THE MATERIAL IS SUITABLE FOR REPAIRS ON VERTICAL SURFACES.
- WHEN REPAIRING CONCRETE VERTICAL SURFACES, SUCH AS ABUTMENTS, PIER CAPS AND COLUMNS, AND WHEN REPAIRING CONCRETE DECK HAUNCHES, PERFORM REPAIRS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - REPAIR ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS.
 - SPALLS WITH SURFACE AREA LESS THAN 1.0 SF, SHALL BE PAID UNDER ITEM 602572.
 - PERFORM SOUNDING FOR DELAMINATION OF CONCRETE AROUND VISIBLE CRACKS, SPALLS AND OTHER DETERIORATION. SOUNDING OF CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM.
 - CRACK WIDTHS LARGER THAN ONE HALF INCH SHALL BE REPAIRED BY GROUTING. PAYMENT WILL BE UNDER ITEM 602572, REPAIR OF EXISTING PCC STRUCTURES.
- ALL CONCRETE SPALL REPAIR PERFORMED UNDER PAY ITEM 602572 OR 602586 SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AS STATED IN THE RESPECTIVE SPECIAL PROVISION, AND IN ACCORDANCE WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
 - PERFORM ABRASIVE BLASTING OF REINFORCING STEEL AS NECESSARY TO REMOVE CORROSION AND OTHER CONTAMINANTS PRIOR TO PLACEMENT OF PATCHING MORTAR OR CONCRETE.
 - PREPARED CONCRETE SURFACE SHALL BE ROUGHENED BY ABRASIVE BLASTING PRIOR TO PLACEMENT OF PATCH MORTAR OR CONCRETE. THIS ROUGHENING IMPROVES THE MECHANICAL BOND WHEN PATCH MATERIAL IS APPLIED.

PCC MASONRY - DECKS

- EPOXY OR METHACRYLATE BASED CRACK SEALER SHALL BE APPLIED TO BRIDGE DECKS UNDER PAY ITEM 602620 OR 602629 WHEN SPECIFIED IN THE SITE SPECIFIC PROJECT NOTES FOR EACH BRIDGE. THE CONTRACTOR SHALL SUBMIT THE PRODUCT DATA SHEET FOR THE PROPOSED MATERIAL FOR USE PRIOR TO COMMENCEMENT OF WORK. THE PRODUCT DATA SHEET SHALL SPECIFY DRYING TIME FOR CRACK SEALER. THE PRODUCT DRYING TIME SHALL ALLOW FOR LANE OPENING TO TRAFFIC WITHIN SIX HOURS (OR LESS) OF APPLICATION.
- WHEN REPAIRING BOTTOM SIDE OF CONCRETE DECKS, PERFORM REPAIRS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS, UNLESS SPECIFIED OTHERWISE IN SITE SPECIFIC PROJECT NOTES:
 - FOR SPALL AND DELAMINATION REPAIRS LESS THAN 3" DEPTH, USE PAY ITEM 602572. FOR REPAIRS GREATER THAN OR EQUAL TO 3" DEPTH, PAY ITEM 602586 OR 602577 SHALL BE USED AS DETERMINED BY DELDOT ENGINEER. CONSULT WITH ENGINEER PRIOR TO PERFORMING DEEP SPALL REPAIRS ON BOTTOM SIDE OF DECK. LANE CLOSURES ON BRIDGE DECK MAY BE REQUIRED.
 - PERFORM SOUNDING FOR DELAMINATION OF CONCRETE AROUND VISIBLE CRACKS, SPALLS AND OTHER DETERIORATION. SOUNDING OF CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM.
 - PREPARE ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS. ALL EXPOSED STEEL SHALL BE THOROUGHLY CLEANED OF RUST AND OTHER CONTAMINANTS. PAYMENT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEMS 602572, 602586 AND 602577.
- CONCRETE DECK SPALLS SHALL BE REPAIRED IN ACCORDANCE WITH ITEMS 602575 OR 602577, UNLESS SPECIFIED OTHERWISE IN THE SITE SPECIFIC PROJECT NOTES. PREPARE ALL SPALLS AS PER THE "SPALL REPAIR" DETAIL SHOWN ON THE PLANS. APPLY AN EPOXY BONDING COAT TO ROUGHENED CONCRETE SURFACE. THOROUGHLY CLEAN THE SURFACE PRIOR TO APPLICATION OF BONDING COAT. WHERE EXISTING DECK OVERLAYS ARE PRESENT, SAW CUT TO A DEPTH NECESSARY TO PENETRATE THE ENTIRE OVERLAY DEPTH (TYPICALLY 2" TO 3" DEEP). ALL WORK DESCRIBED IN THIS PROJECT NOTE SHALL BE INCLUDED IN THE BID PRICE FOR THE APPLICABLE DECK SPALL REPAIR PAY ITEM.
- THE DEPARTMENT CURRENTLY HAS ENOUGH MATERIAL TO CONSTRUCT APPROXIMATELY 80 C.Y. OF ITEM 602757 - THIN POLYMER OVERLAY STORED AT THE INDIAN RIVER INLET BRIDGE PROJECT LOCATION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE PROPER EQUIPMENT AND TO PICK UP THE MATERIAL FROM THE JOB SITE. CARE MUST BE TAKEN DURING HANDLING TO PREVENT DAMAGING THE PACKAGING. ANY ASSOCIATED DAMAGE, CLEANUP, SALVAGING, DISPOSAL, AND/OR REPLACEMENT OF MATERIALS SHALL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BECOME FAMILIAR WITH LOCATION AND CONDITION PRIOR TO BID. ANY EXCESS MATERIALS WHETHER FURNISHED BY THE DEPARTMENT OR PURCHASED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO WILL BE RESPONSIBLE FOR THEIR DISPOSAL.

BRIDGE DECK JOINTS

- CLEAN STRIP SEAL JOINTS ON DECKS OF ALL BRIDGES. CLEANING OF DECK JOINTS SHALL BE INCIDENTAL TO ITEM 602546, AND SHALL INCLUDE REMOVAL OF ALL DEBRIS AND SEDIMENT FROM JOINTS. IF THE GLAND MATERIAL OF SEALED JOINTS IS NOT DESIGNATED FOR REPLACEMENT, THEN THE SEDIMENT AND DEBRIS SHALL BE REMOVED FROM JOINT AND DECK SURFACE. CLEANING SHALL NOT BE PERFORMED WITH ANY METHOD THAT MAY DAMAGE THE EXISTING GLAND MATERIAL AND CONNECTIONS IN STRIP SEAL JOINTS.

BRIDGE BEARINGS

- MATERIAL SPECIFICATION FOR PAY ITEM 605636 (CLEAN AND LUBRICATE BRIDGE BEARINGS) SHALL COMPLY WITH THE FOLLOWING: GREASE APPLIED TO STEEL BRIDGE BEARINGS SHALL BE TEXACO, TYPE L, SHELL RHODINA GREASE SDX 2, OR EXXON MOBIL CENTAUR MOLY GREASE, OR APPROVED EQUAL.

STRUCTURAL STEEL PAINTING

- THE PAINT SYSTEM USED FOR THE STRUCTURAL STEEL SHALL BE APPLIED IN A THREE (3) COAT SYSTEM APPLICATION.
- ALL STRUCTURES IN THIS CONTRACT ARE ASSUMED TO CONTAIN LEAD BASED PAINT ON ALL OF THE STRUCTURAL STEEL. FOR BRIDGES REQUIRING SPOT PAINTING, THE CONTRACTOR SHALL USE PAY ITEM 605629 FOR THE PAINT REMOVAL ON THE STRUCTURES. FOR BRIDGES REQUIRING PAINTING OF ALL STRUCTURAL STEEL, ITEM 605533 SHALL BE USED.
- PRIOR TO APPLYING NEW PAINT SYSTEM, ALL EXISTING COATINGS ON THE STRUCTURAL STEEL SHALL BE COMPLETELY REMOVED, IN ACCORDANCE ITEMS 605629 OR 605533 (AS SPECIFIED IN THE SITE SPECIFIC PROJECT NOTES). THERE SHALL BE NO OVER COATING OF EXISTING PAINT OR SEALANT SYSTEMS. THIS APPLIES TO SPOT PAINTING OF STEEL, AS WELL AS BRIDGES TO BE COMPLETELY RE-COATED IN ENTIRETY.
- IF ANY CLEANING TO BE PERFORMED REQUIRES PRE-CLEANING BY PRESSURE WASHING, THEN THIS PRESSURE WASHING SHALL BE INCIDENTAL TO ITEM 605629 OR 605533 (AS APPLICABLE).
- FOR BRIDGES WITH EXISTING STEEL STRUCTURAL COMPONENTS PAINTED GREEN, THE COLOR OF PAINT SHALL BE GREEN (*24172) AS FEDERAL STANDARD 595C. THE COLOR SHALL BE SUBMITTED TO DELDOT FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- HAZARDOUS WASTE GENERATED DURING STEEL CLEANING OPERATIONS SHALL BE DISPOSED OF IN ACCORDANCE WITH REQUIREMENTS STATED IN 605533/605629, AND IN ACCORDANCE WITH ALL STATE, FEDERAL AND LOCAL REGULATIONS. CONTRACTOR SHALL SUBMIT COPIES OF ALL HAZARDOUS WASTE MANIFESTS AND TICKETS TO DELDOT. PRIOR TO APPLYING NEW PAINT SYSTEM, ALL EXISTING COATINGS ON THE STRUCTURAL STEEL SHALL BE COMPLETELY REMOVED, IN ACCORDANCE ITEMS 605629 OR 605533 (AS SPECIFIED IN THE SITE SPECIFIC PROJECT NOTES). THERE SHALL BE NO OVER COATING OF EXISTING PAINT OR SEALANT SYSTEMS. THIS APPLIES TO SPOT PAINTING OF STEEL, AS WELL AS BRIDGES TO BE COMPLETELY RE-COATED IN ENTIRETY.

ADDENDUMS / REVISIONS

NOT TO SCALE

INTERSTATE BRIDGE
MAINTENANCE,
SOUTH

CONTRACT	BRIDGE NO.	VARIOUS	SHEET NO.
T201207402	DESIGNED BY: AJF		2
COUNTY	CHECKED BY: MAA	NOTES	TOTAL SHTS.
NEW CASTLE			89

SECTION 700

22. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT. ALL HOT-MIX SAW CUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

23. TRASH, RUBBISH, DEBRIS OR BRUSH THAT HAMPERS REPAIR / MAINTENANCE WORK IN THIS CONTRACT (AS DETERMINED BY THE ENGINEER), SHALL BE REMOVED WITHIN THE PROJECT LIMITS AND SHALL BE INCIDENTAL TO PAY ITEM 763000 (INITIAL EXPENSE).

24. GRASS AND SOIL AREAS WITHIN STATE RIGHT-OF-WAY THAT HAVE BEEN DAMAGED BY EQUIPMENT DURING THIS CONTRACT, SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH AT CONTRACTOR'S OWN EXPENSE, AND IN ACCORDANCE WITH THE REQUIREMENTS FOR ITEMS 732002 AND 734013.

25. PORTABLE LIGHT ASSEMBLIES WILL BE REQUIRED FOR ALL NIGHT TIME OPERATIONS AND AS DIRECTED.

26. CONCRETE BLOCK FOR EMBANKMENTS UNDER BRIDGES (PAID UNDER 712526) SHALL MATCH EXISTING IN COLOR AND TEXTURE TO THE SATISFACTION OF DELDOT.

27. REMOVAL, TEMPORARY STORAGE AND REINSTALLING OF LIGHT POLES SHALL BE PAID FOR UNDER ITEM 746509 - RELOCATING LIGHT POLE.

28. FOR TEMPORARY IMPACT ATTENUATOR QUANTITIES IT HAS BEEN ASSUMED THAT DURING PHASES LONGER THAN 15 DAYS, TWO (2) ADDITIONAL STAND BY TEMPORARY IMPACT ATTENUATORS (ITEM 743029 AND ITEM 743025) WILL BE REQUIRED FOR EACH MAINTENANCE OF TRAFFIC LOCATION. THE CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY USED DURING CONSTRUCTION.

MISCELLANEOUS

29. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING STATE RIGHT-OF-WAY. RIGHT-OF-WAY INFORMATION SHALL BE AVAILABLE UPON REQUEST FROM THE DELDOT ENGINEER.

30. ALL ACCESS AND CONTAINMENT SYSTEMS MUST MAINTAIN VERTICAL BRIDGE CLEARANCES.

31. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, ENVIRONMENTAL COMPLIANCE SHEETS WERE NOT PREPARED.

32. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.

MOT NOTES

1. ON ALL INTERSECTING STREETS APPROACHING THE WORK AREA, "ROAD WORK 1,500 FT." "ROAD WORK 1,000 FT." AND "ROAD WORK 500 FT." PERMANENT SIGNS SHALL BE PLACED AS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER. AN "END ROAD WORK" SIGN SHALL BE PLACED ACROSS THE STREET FROM THE "ROAD WORK 500 FT." SIGN, VISIBLE TO TRAFFIC OPERATING THE WORK ZONE.

2. GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.

3. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.

4. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING PAVEMENT OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F.86 OF THE DELAWARE MUTCD.

5. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED AND PLACED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). A SITE SPECIFIC TEMPORARY TRAFFIC CONTROL PLAN MUST BE SUBMITTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK FOR EACH BRIDGE. COSTS FOR PREPARATION OF TEMPORARY TRAFFIC CONTROL PLANS FOR EACH SITE SHALL BE INCLUDED IN THE BID PRICE FOR PAY ITEM 743000 (MAINTENANCE OF TRAFFIC). COSTS FOR ADJUSTMENTS IN POSITION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES DUE TO VARIANCES FROM STANDARD MUTCD CASE NUMBERS, OR FOR ANY OTHER REASONS, SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 743000.

a. RECOMMENDED TYPICAL APPLICATION NUMBERS ARE LISTED UNDER SITE SPECIFIC PROJECT NOTES FOR EACH BRIDGE LOCATION. THESE TYPICAL APPLICATION NUMBERS ARE REFERENCING THE DELDOT TRAFFIC CONTROL MANUAL. THE CASE NUMBERS LISTED ARE RECOMMENDATIONS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE APPLICABLE TYPICAL APPLICATION NUMBER FOR EACH WORK APPLICATION. THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN FOR EACH BRIDGE SITE TO DELDOT FOR APPROVAL.

b. THE TEMPORARY TRAFFIC CONTROL PLAN MUST CLEARLY INDICATE ORIENTATION OF TEMPORARY TRAFFIC CONTROL DEVICES TO BE USED FOR EACH SITE. THE PLAN MUST BE APPROVED BY DELDOT SAFETY OFFICER AND DELDOT PROJECT ENGINEER PRIOR TO COMMENCEMENT OF WORK ON EACH BRIDGE.

6. ALL TRAVEL LANE CLOSURES ON I-95 AND RAMPS SHALL BE AS LISTED FOR EACH LOCATION. NO LANE CLOSURES WILL BE PERMITTED AT ANY LOCATION DURING THE SPECIAL EVENT DATES LISTED BELOW:

SPECIAL EVENT DATES - LANE/RAMP CLOSURES NOT PERMITTED

YEAR 2012		REASON
DATE(S)		
SUNDAY, JANUARY 1 THROUGH MONDAY, JANUARY 2		NEW YEAR'S DAY
FRIDAY, APRIL 6 THROUGH SUNDAY, APRIL 8		EASTER WEEKEND
FRIDAY, MAY 25 THROUGH MONDAY, MAY 28		MEMORIAL DAY WEEKEND
FRIDAY, JUNE 1 THROUGH SUNDAY, JUNE 3 *		NASCAR RACE WEEKEND
WEDNESDAY, JULY 4		FOURTH OF JULY HOLIDAY
FRIDAY, AUGUST 31 THROUGH MONDAY, SEPTEMBER 3		LABOR DAY WEEKEND
FRIDAY, SEPTEMBER 28 THROUGH SUNDAY, SEPTEMBER 30 *		NASCAR RACE WEEKEND
WEDNESDAY, NOVEMBER 21 THROUGH SUNDAY, NOVEMBER 25		THANKSGIVING HOLIDAY
MONDAY, DECEMBER 24 THROUGH MONDAY, DECEMBER 31		CHRISTMAS / NEW YEAR'S EVE

* NOTE: ANTICIPATED RACE DATES LISTED. ACTUAL CLOSURE RESTRICTIONS MAY BE ADJUSTED IF RACES ARE RESCHEDULED DUE TO WEATHER, ETC.

7. NO LANE CLOSURES WILL BE PERMITTED UNLESS APPLICABLE WORK ACTIVITY IS TAKING PLACE.

8. ALL REPAIR/MAINTENANCE EQUIPMENT SHALL BE REMOVED FROM THE JOB SITES ON A DAILY BASIS, EXCEPT WHEN ALLOWED BY THE APPROVED TRAFFIC SAFETY PLAN, OR AS APPROVED BY THE ENGINEER.

9. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.

10. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS ON I-95 SHALL CONFORM TO CASES TA-33 AND TA-37 OF THE DELAWARE MUTCD.

11. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES ON SR 896 SOUTHBOUND (BRIDGE 1-703A) DURING PHASE 1D SHALL BE DONE DURING WEEKENDS AND/OR NIGHT TIME HOURS. THIS WORK MAY BE CONCURRENT WITH PHASE 1C WORK.

LEGEND	
	OVERLAY PAVEMENT - 2" MILLING (ITEM 760507) AND OVERLAY WITH 2" WMA, TYPE C (ITEM 401830)
	PAVEMENT PATCH (SEE CONCRETE REPAIRS AND PATCHING DETAIL SHEET)
	PCC SIDEWALK, 6"
	PCC CURB, TYPE 2
	GUARDRAIL, TYPES 1 & 3
	GUARDRAIL END TREATMENT - PARALLEL
	GUARDRAIL END TREATMENT - PARABOLIC
	ADJUST BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	CURB IDENTIFIER
	GUARDRAIL
	EXISTING DRAINAGE CATCH BASIN
	EXISTING TRAFFIC - LIGHT POLE & BASE
	EXISTING GUARDRAIL - STEEL BEAM

SPECIAL EVENT DATES - LANE/RAMP CLOSURES NOT PERMITTED

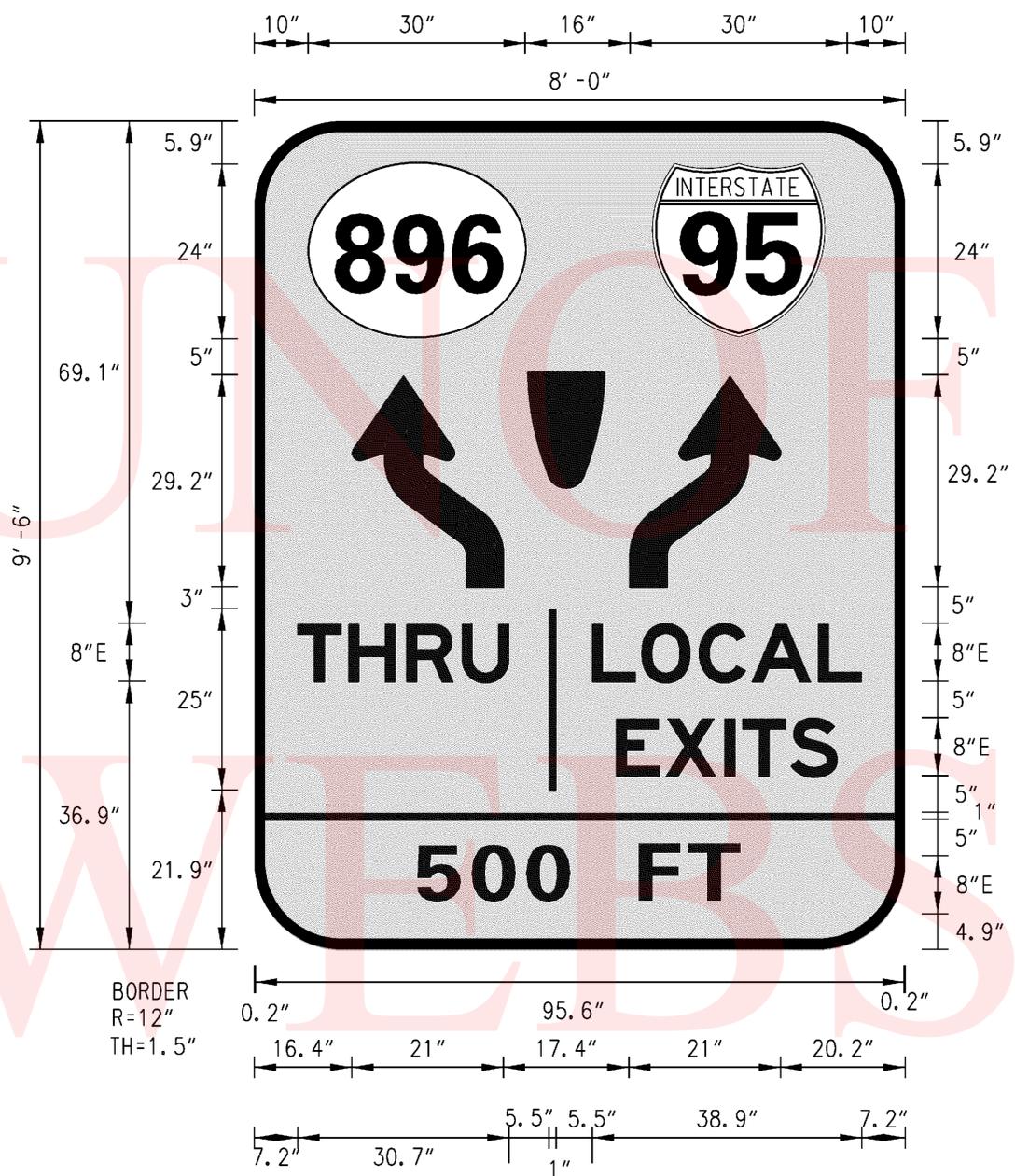
YEAR 2013		REASON
DATE(S)		
TUESDAY, JANUARY 1		NEW YEAR'S DAY
FRIDAY, MARCH 29 THROUGH SUNDAY, MARCH 31		EASTER WEEKEND
FRIDAY, MAY 24 THROUGH MONDAY, MAY 27		MEMORIAL DAY WEEKEND
FRIDAY, MAY 31 THROUGH SUNDAY, JUNE 2 *		NASCAR RACE WEEKEND
THURSDAY, JULY 4		FOURTH OF JULY HOLIDAY
FRIDAY, AUGUST 30 THROUGH MONDAY, SEPTEMBER 2		LABOR DAY WEEKEND
FRIDAY, SEPTEMBER 27 THROUGH SUNDAY, SEPTEMBER 29*		NASCAR RACE WEEKEND
WEDNESDAY, NOVEMBER 27 THROUGH SUNDAY, DECEMBER 1		THANKSGIVING HOLIDAY
TUESDAY, DECEMBER 24 THROUGH TUESDAY, DECEMBER 31		CHRISTMAS / NEW YEAR'S EVE

* NOTE: ANTICIPATED RACE DATES LISTED. ACTUAL CLOSURE RESTRICTIONS MAY BE ADJUSTED IF RACES ARE RESCHEDULED DUE TO WEATHER, ETC.

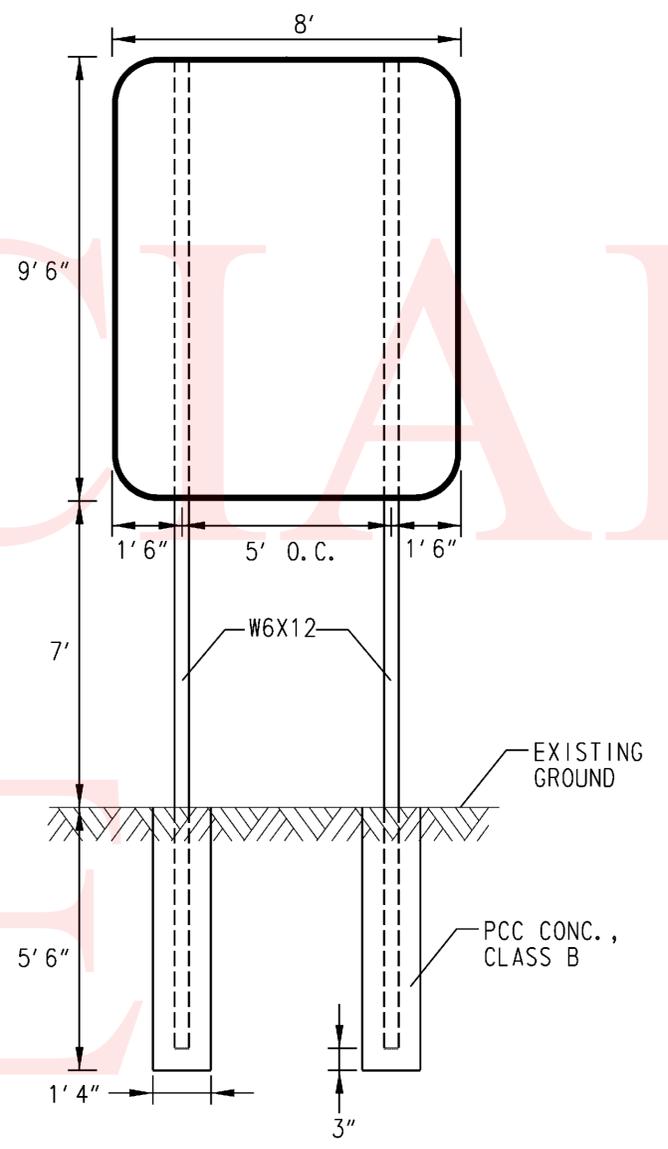
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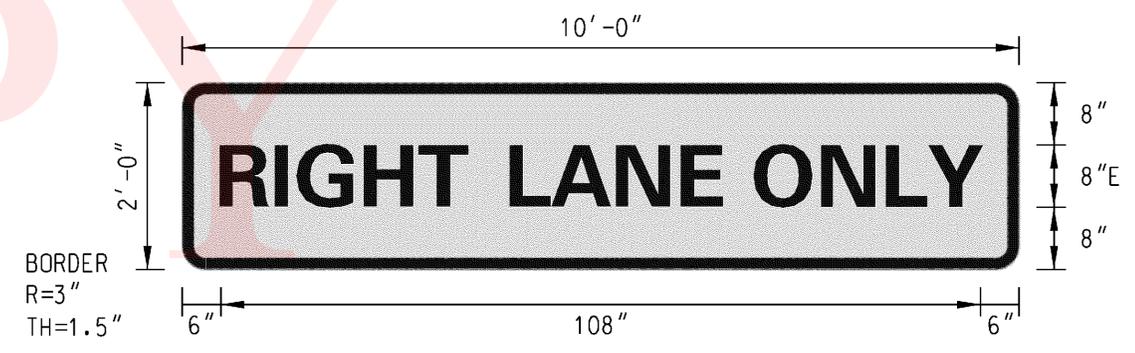
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		NOT TO SCALE	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	VARIOUS	NOTES	SHEET NO.
					T201207402	DESIGNED BY: AJF			3
					COUNTY	CHECKED BY: MAA	TOTAL SHTS.		
					NEW CASTLE		89		



SIGN DETAIL 1 - ITEM 743024
NOT TO SCALE



INSTALLATION DETAIL
INCIDENTAL TO ITEM 743024

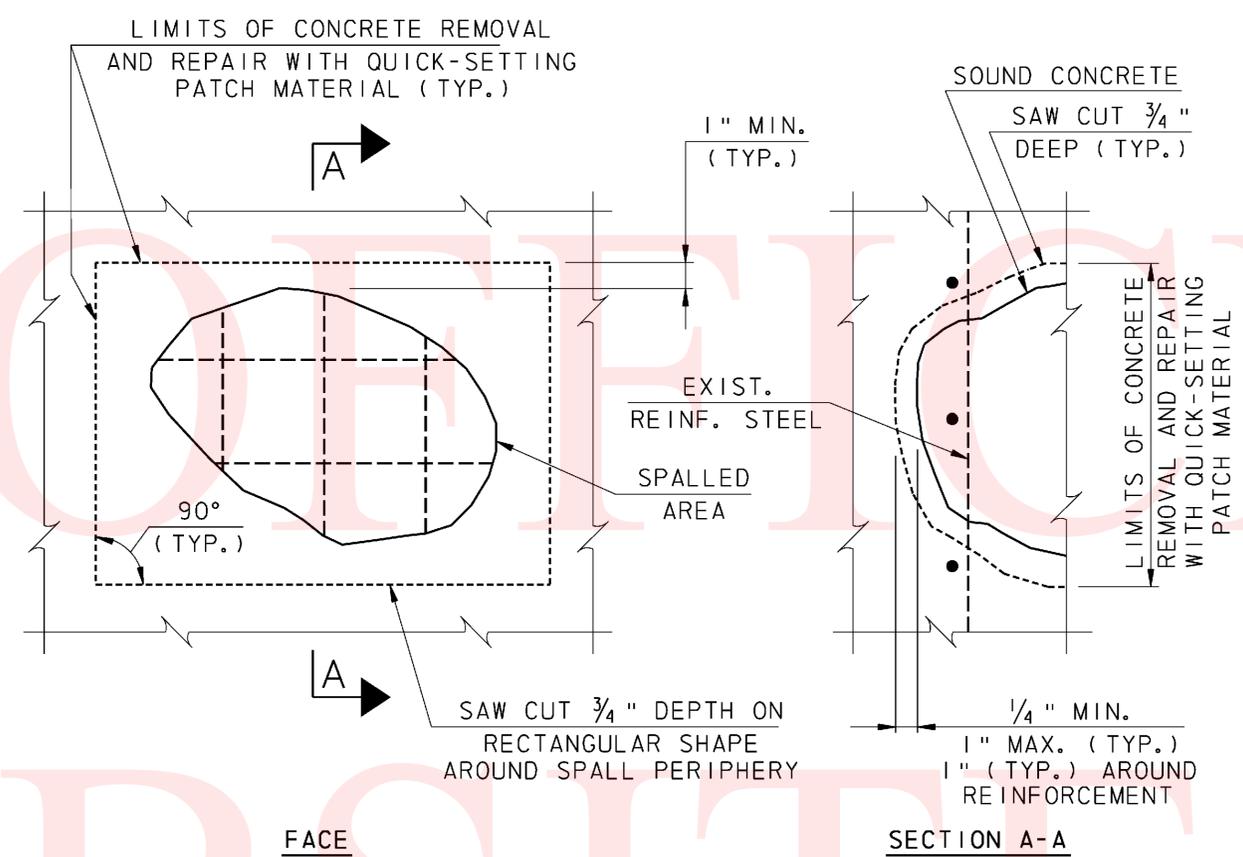


SIGN DETAIL 2 - ITEM 749502
NOT TO SCALE

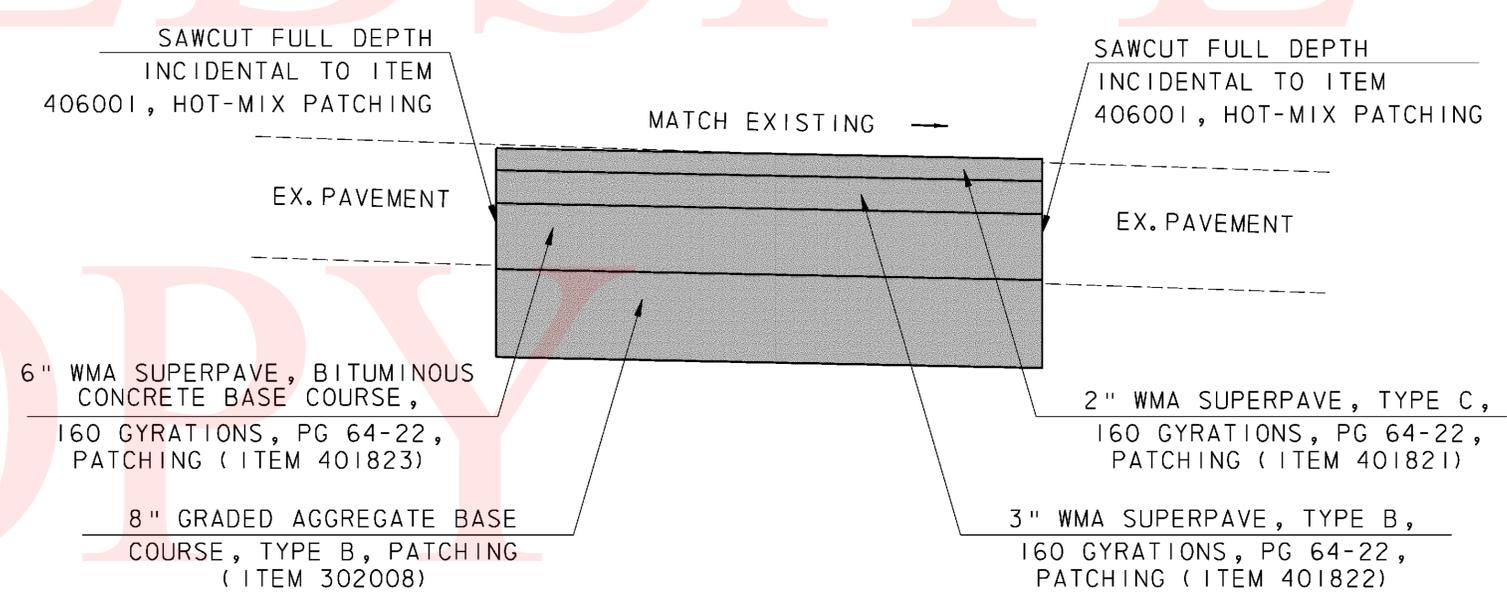
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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		NOT TO SCALE	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	VARIOUS	MISCELLANEOUS REPAIR DETAILS	SHEET NO.
					T201207402	DESIGNED BY: RDM			4
					COUNTY	CHECKED BY: AJF/MAA	TOTAL SHTS.		
					NEW CASTLE		76		

UNOFFICIAL



SPALL REPAIR
NOT TO SCALE



PAVEMENT PATCH SECTION (NON-INTERSTATE ROADS)

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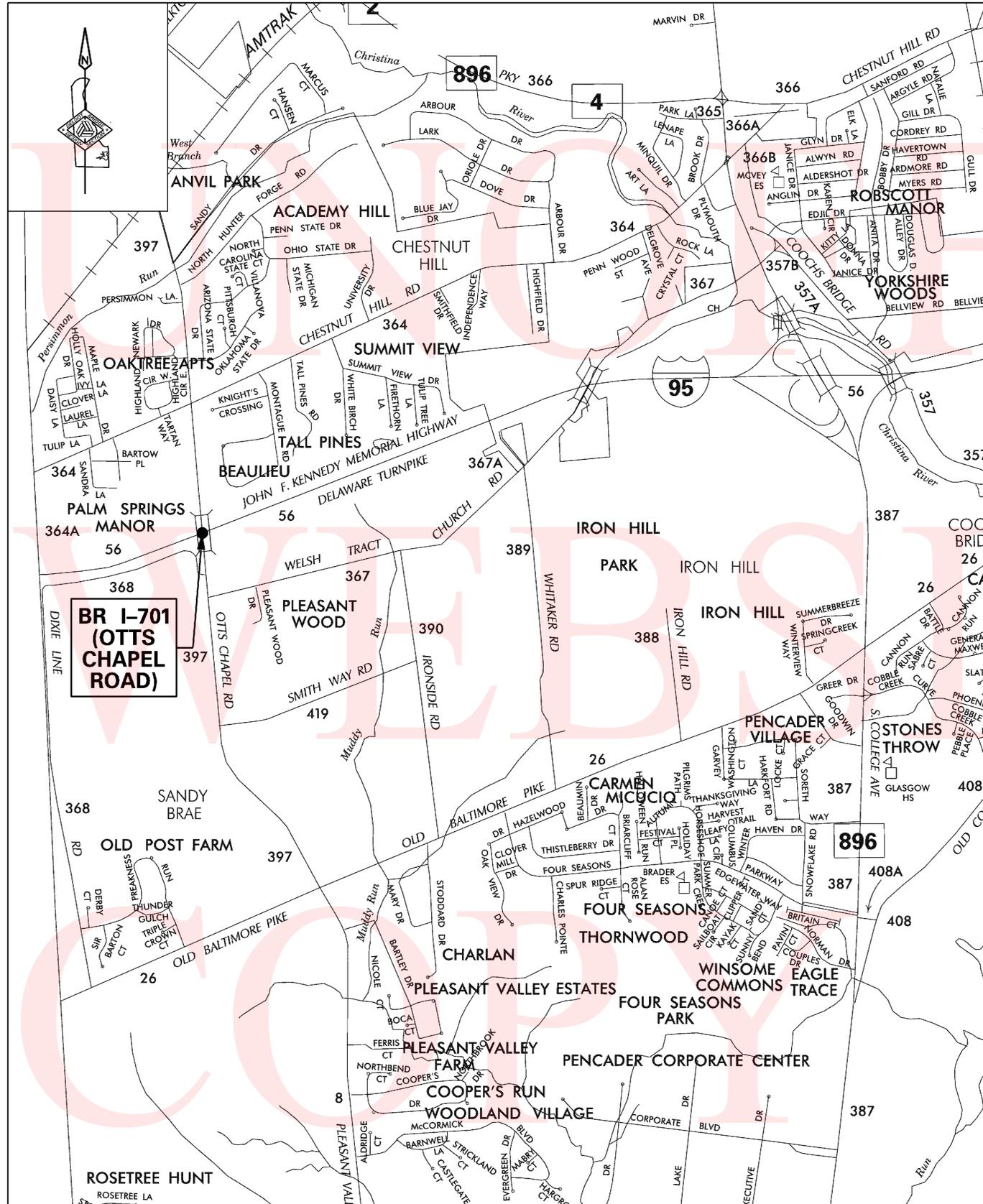
ADDENDUMS / REVISIONS	

NOT TO SCALE

**INTERSTATE BRIDGE
MAINTENANCE,
SOUTH**

CONTRACT T201207402	BRIDGE NO. DESIGNED BY: RDM	VARIOUS
COUNTY NEW CASTLE	CHECKED BY: AJF/MAA	

**MISCELLANEOUS REPAIR
DETAILS**



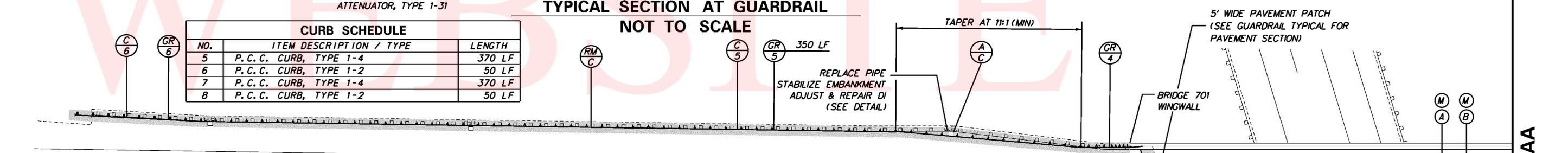
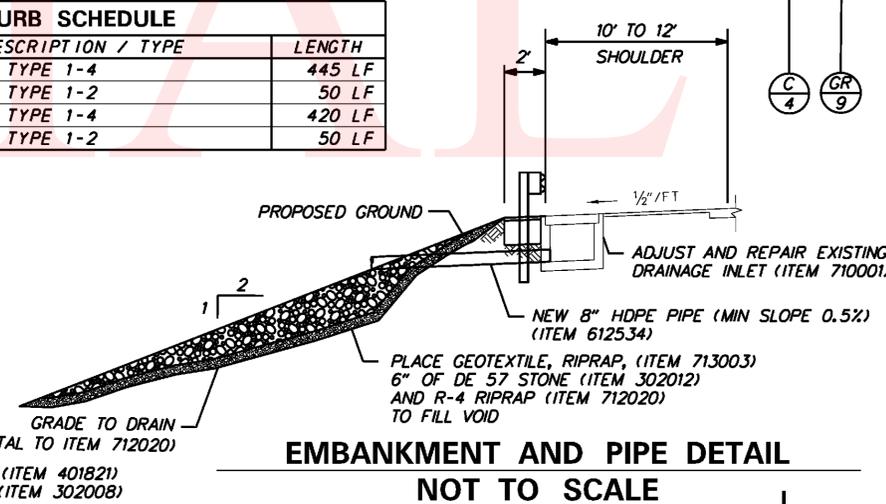
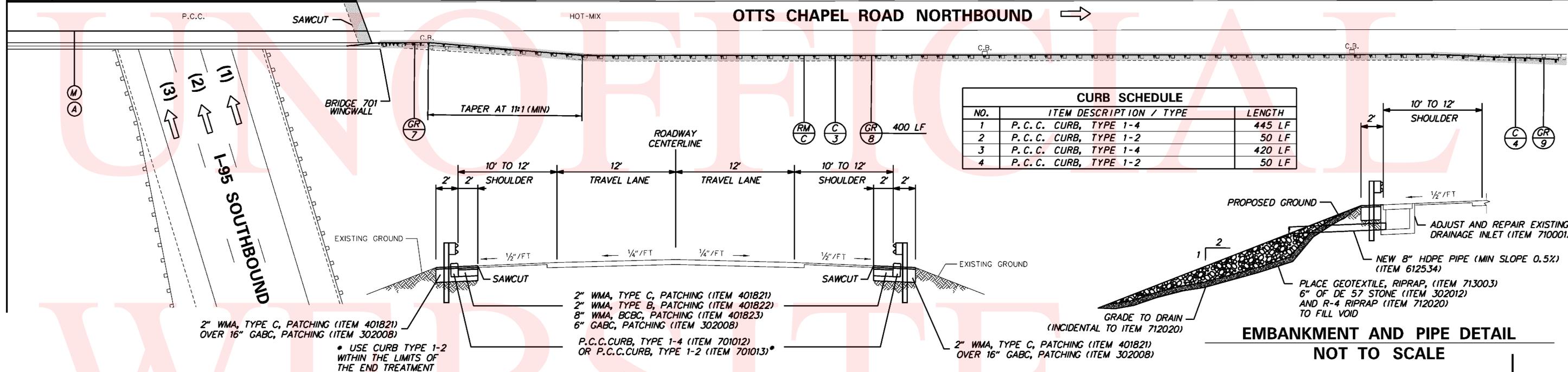
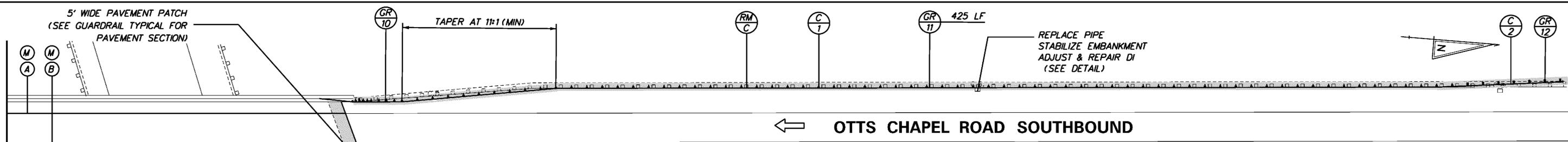
LOCATION PLAN
BR I-701

ITEM	U.O.M.	ITEM DESCRIPTION	QUANTITY
201000	L.S.	CLEARING AND GRUBBING	1
209003	C.Y.	BORROW, TYPE C	1
211000	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1
251001	L.F.	REINFORCED SILT FENCE	80
302008	C.Y.	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	180
302012	TON	DELAWARE NO. 57 STONE	6
401821	TON	WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	79
401822	TON	WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	69
401823	TON	WMA, SUPERPAVE, BCBC, 160 GYR., PG 64-22, PATCHING	268
406001	S.Y.-IN	HOT-MIX PATCHING	12511
406507	L.F.	CRACK SEALING	195
602518	S.F.	WATER BASED ACRYLIC CONCRETE SEALER	4736
602546	S.F.	WATERPROOFING P.C.C. MASONRY	9266
602572	L.B.	REPAIRING EXISTING P.C.C. STRUCTURES	4895
602575	S.F.	DECK REPAIR, 1" TO 3" DEPTH	100
602578	L.F.	REPAIRING JOINTS AND CRACKS WITH MORTAR	3075
602586	C.F.	REHABILITATION OF CONCRETE STRUCTURE	100
602611	L.F.	REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION	164
602612	L.S.	ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS	1
602626	L.F.	ROUT AND SEAL CRACKS	164
602629	L.F.	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALK, ETC.	210
602646	S.F.	SILICONE ACRYLIC CONCRETE SEALER	4738
605620	S.F.	MOISTURE CURED URETHANE PAINT SYSTEM (RECOATING, S.F.)	5350
605629	S.F.	CLEANING EXISTING STEEL STRUCTURES, HAZARDOUS (S.F.)	5350
605636	EACH	CLEAN AND LUBRICATE BRIDGE BEARINGS	50
605659	L.F.	STRIP SEAL EXPANSION JOINT, 3"	144
612534	L.F.	CORRUGATED POLYETHYLENE PIPE, TYPE S, 8"	16
701012	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	1605
701013	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-2	200
710001	EACH	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	1
712020	TON	RIPRAP, R-4	65
712526	S.Y.	CONCRETE BLOCK SLOPE PAVING REPAIR, 6"	75
713003	S.Y.	GEOTEXTILES, RIPRAP	30
720050	L.F.	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	1525
720585	EACH	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	4
725002	EACH	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	4
732002	S.Y.	TOPSOIL, 6" DEPTH	100
734013	S.Y.	PERMANENT GRASS SEEDING, DRY GROUND	100
743000	L.S.	MAINTENANCE OF TRAFFIC	1
743003	EA-DY	ARROWPANELS, TYPE C	8
743004	EA-DY	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	8
743006	EA-DY	PLASTIC DRUMS	1096
743007	HOUR	TRAFFIC OFFICERS	150
743008	EACH	REFLECTOR PANELS	102
743010	EA-DY	FURNISH AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE II	6
743013	L.F.	FURNISH PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	1020
743014	LF	RELOCATING PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	1020
743015	L.F.	FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	1452
743016	L.F.	RELOCATING PORTABLE P.C.C. SAFETY BARRIER	276
743024	EA-DY	TEMPORARY WARNING SIGNS AND PLAQUES	410
743025	EACH	INSTALL TEMPORARY IMPACT ATTENUATOR	10
743029	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	9
743030	EACH	RELOCATE TEMPORARY IMPACT ATTENUATOR	2
743031	HOUR	ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR	84
743056	HOUR	FLAGGER, NEW CASTLE COUNTY, FEDERAL	240
743065	HOUR	FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	34
748518	LF	BLACKOUT TAPE, 6"	5160
748525	LF	TEMPORARY MARKINGS, TAPE, 4"	12576
748530	S.F.	REMOVAL OF PAVEMENT STRIPING	1128
748548	L.F.	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT 5"	1152
748557	L.F.	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	1152
763000	L.S.	INITIAL EXPENSE	1
763501	L.S.	CONSTRUCTION ENGINEERING	1

9/19/2012
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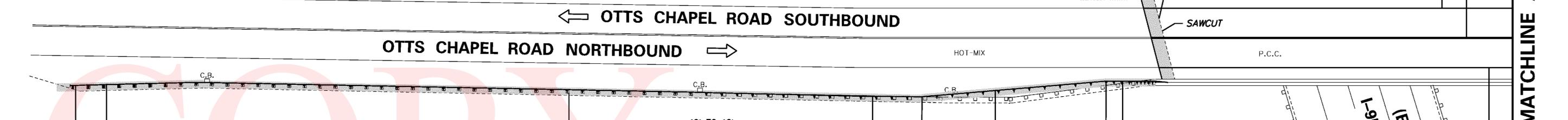
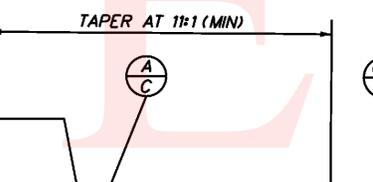
MATCHLINE AA

MATCHLINE AA



NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	P. C. C. CURB, TYPE 1-4	370 LF
6	P. C. C. CURB, TYPE 1-2	50 LF
7	P. C. C. CURB, TYPE 1-4	370 LF
8	P. C. C. CURB, TYPE 1-2	50 LF

TYPICAL SECTION AT GUARDRAIL
NOT TO SCALE



NO.	ITEM DESCRIPTION / TYPE
1	GUARDRAIL TO BARRIER CONNECTION APPROACH, TYPE 1-31
2	GUARDRAIL, TYPE 1-31
3	END TREATMENT ATTENUATOR, TYPE 1-31
4	GUARDRAIL TO BARRIER CONNECTION APPROACH, TYPE 1-31
5	GUARDRAIL, TYPE 1-31
6	END TREATMENT ATTENUATOR, TYPE 1-31
7	GUARDRAIL TO BARRIER CONNECTION APPROACH, TYPE 1-31
8	GUARDRAIL, TYPE 1-31
9	END TREATMENT ATTENUATOR, TYPE 1-31
10	GUARDRAIL TO BARRIER CONNECTION APPROACH, TYPE 1-31
11	GUARDRAIL, TYPE 1-31
12	END TREATMENT ATTENUATOR, TYPE 1-31

SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	576 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	576 LF
(M)	3" SOLID BLACK EPOXY RESIN PAVEMENT STRIPING (ITEM 748557)	1,152 LF

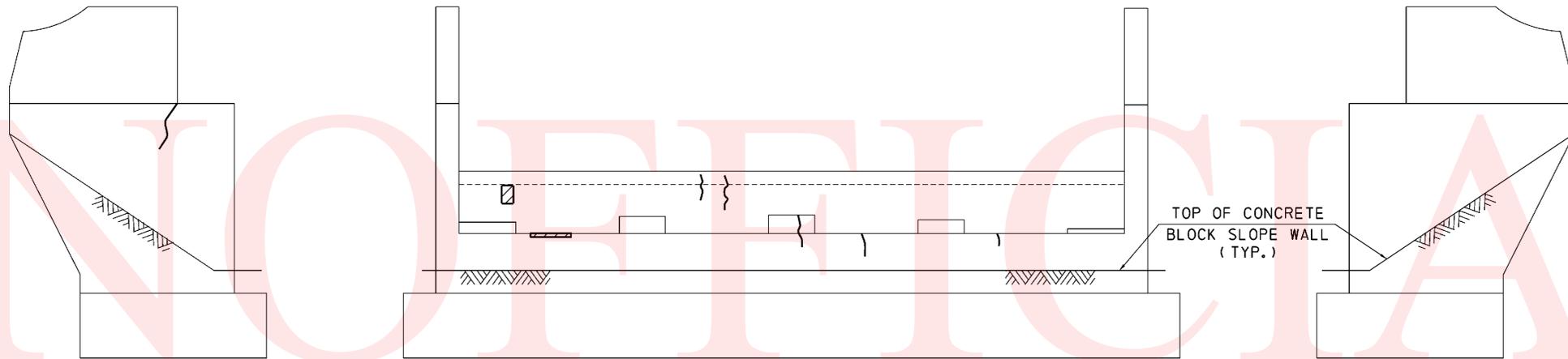
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BRIDGE 1-701 NOTES

1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING ONTO I-95 LANES AND SHOULDER DURING REPAIR ACTIVITIES ON SUBSTRUCTURE. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE UNDER ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). BIDDERS SHALL ASSUME THAT ALL FACES OF ALL PIERS FOR THIS BRIDGE MUST BE ACCESSED AND CONTAINED FOR SPALL, CRACK AND DELAMINATION REPAIRS.
2. REPAIR SPALLS ON BRIDGE DECK, INCLUDING PREVIOUS ASPHALTED REPAIR AREAS. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
3. SEAL CRACKS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 602629.
4. APPLY SILANE BASED SEALANT TO ENTIRE BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 602546.
5. REPAIR SPALLS ON BARRIERS, PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE GENERAL NOTES FOR PCC MASONRY - ABUTMENTS, PIERS, WINGWALLS, ETC.
6. REPAIR OPENED CRACKS IN BARRIER. PAYMENT SHALL BE UNDER ITEM 602626.
7. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO ALL FACES OF THE BARRIERS. PAYMENT SHALL BE UNDER ITEM 602518.
8. REPAIR DETERIORATED ASPHALT IN THE AREAS ADJACENT TO THE BRIDGE. SEE PLANS FOR PAVEMENT SECTION. REPAIR A MIN. 5' WIDE STRIP ALONG EACH ABUTMENT BACKWALL, AS DIRECTED BY THE INSPECTOR. PAYMENT SHALL BE UNDER ITEMS 302008, 401821, 401822, 401823, AND 406001.
9. REPLACE ALL EXISTING NEOPRENE STRIP SEALS AT PIERS 1 THROUGH 4. SHALLOWEST SEAL SIZE APPROPRIATE FOR THE JOINT OPENING SHALL BE USED TO MINIMIZE FUTURE DEBRIS COLLECTION IN THE JOINT. PAYMENT SHALL BE UNDER ITEM 605659.
10. CLEAN DEBRIS FROM DECK. PAYMENT SHALL BE UNDER ITEM 602546.
11. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE UNDER ITEMS 605629 AND 605620. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM 605620. FOR REMAINING BEARINGS NOT TO BE RE-COATED WITH PAINT, APPLY GREASE TO BEARINGS. PAYMENT SHALL BE UNDER ITEM 605636. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAP AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS IS INCIDENTAL TO ITEM 605629.
12. REPAIR SPALLS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES.
13. PERFORM SPOT CLEANING AND PAINTING OF THE STRUCTURAL STEEL COMPONENTS. LOCATIONS OF SPOT PAINTING SHALL BE WHERE CORROSION OR DETERIORATION OF THE EXISTING PAINT COATING IS VISIBLE. AREAS WILL BE REVIEWED WITH THE DELDOT INSPECTOR PRIOR TO COMMENCEMENT OF CLEANING AND PAINTING OPERATIONS. PAYMENT SHALL BE UNDER ITEMS 605629 AND 605620.
14. REPAIR SPALLS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
15. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PAYMENT SHALL BE UNDER ITEMS 602626 OR 602611, AS APPROVED BY THE DELDOT INSPECTOR.
16. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646.
17. REPAIR SPALLS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN THE PROJECT NOTES.
18. REPAIR CRACKS ON PIERS AND PIER CAPS. PAYMENT SHALL BE UNDER ITEMS 602626 OR 602611, AS APPROVED BY THE DELDOT INSPECTOR.
19. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIER. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646.
20. PLACE REINFORCED SILT FENCE (PAID UNDER ITEM 251001) AT TOE OF EMBANKMENT. REPLACE DETERIORATED CONCRETE BLOCK SLOPE PAVING ON BRIDGE EMBANKMENT (PAID UNDER ITEM 712526). PLACE BORROW TYPE C IN VOIDS AND ERODED AREAS BELOW CONCRETE BLOCK SLOPE PAVING (PAID UNDER ITEM 209003). IF EXISTING UNSUITABLE FILL MATERIAL MUST BE REMOVED PRIOR TO PLACEMENT OF NEW CONCRETE BLOCK SLOPE PAVING OR BORROW TYPE C, THEN EXCAVATION SHALL BE INCIDENTAL TO ITEM 712526. REMOVAL AND DISPOSAL OF EXISTING CONCRETE SLOPE PAVING SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 712526. NEW SLOPE PAVING SHALL MATCH EXISTING SLOPE PAVING IN SIZE, AND SHALL BE PAINTED TO MATCH EXISTING (INCIDENTAL TO ITEM 712526).
21. REPAIR DETERIORATED MORTAR IN AREAS NOT COVERED BY BLOCK REPAIR, AS DIRECTED BY THE DELDOT INSPECTOR. PAYMENT SHALL BE PAID UNDER ITEM 602578.
22. APPLY SEALANT AT BASE OF ABUTMENTS & WINGWALLS, TO PREVENT STORMWATER FROM PENETRATING BENEATH FOUNDATIONS. PAYMENT SHALL BE UNDER ITEM 406507. ALL VEGETATION, PLANTS AND SMALL TREES GROWING IN VICINITY OF BASE OF ABUTMENT & WINGWALL JOINT SHALL BE REMOVED PRIOR TO APPLYING SEALANT, AS WELL AS EXISTING DETERIORATED AND DEBONDED SEALANT AT JOINT (INCIDENTAL TO PAY ITEM 406507).
23. ADJUST OR RESET DAMAGED PERMANENT ROADWAY SIGNS (2) AS DIRECTED BY THE ENGINEER; COST TO BE INCIDENTAL TO ITEM 201000, CLEARING AND GRUBBING.
24. CLEAN ALL CATCH BASINS AND FLUSH DOWNSPOUTS WITHIN WORK LIMITS, COST TO BE INCIDENTAL TO ITEM 201000, CLEARING AND GRUBBING.
25. CUT BRUSH AND TREES UP TO TEN (10) FEET BEHIND THE GUARDRAIL WITHIN WORK LIMITS, COST TO BE INCIDENTAL TO ITEM 201000, CLEARING AND GRUBBING.

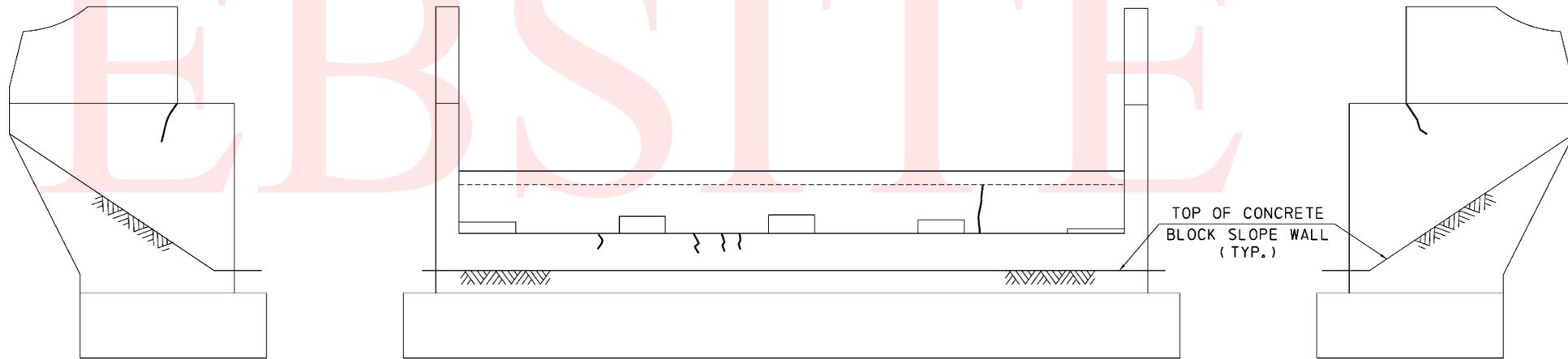
 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		NOT TO SCALE	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	1-701	SITE NOTES	SHEET NO.
	T201207402	DESIGNED BY: RDM			8				
	COUNTY	CHECKED BY: AJF/MAA			TOTAL SHTS.				
	NEW CASTLE				89				

UNOFFICIAL



BRIDGE 701 - ABUT. 1
CONCRETE REPAIR
 (LOOKING SOUTH)
 NOT TO SCALE

WEBSITE



BRIDGE 701 - ABUT. 2
CONCRETE REPAIR
 (LOOKING NORTH)
 NOT TO SCALE

NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

ABUT. CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURED SINCE THE INSPECTIONS.

- LEGEND:
-  DEEP SPALL REPAIR
 -  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
 -  CRACK REPAIR

ADDENDUMS / REVISIONS	

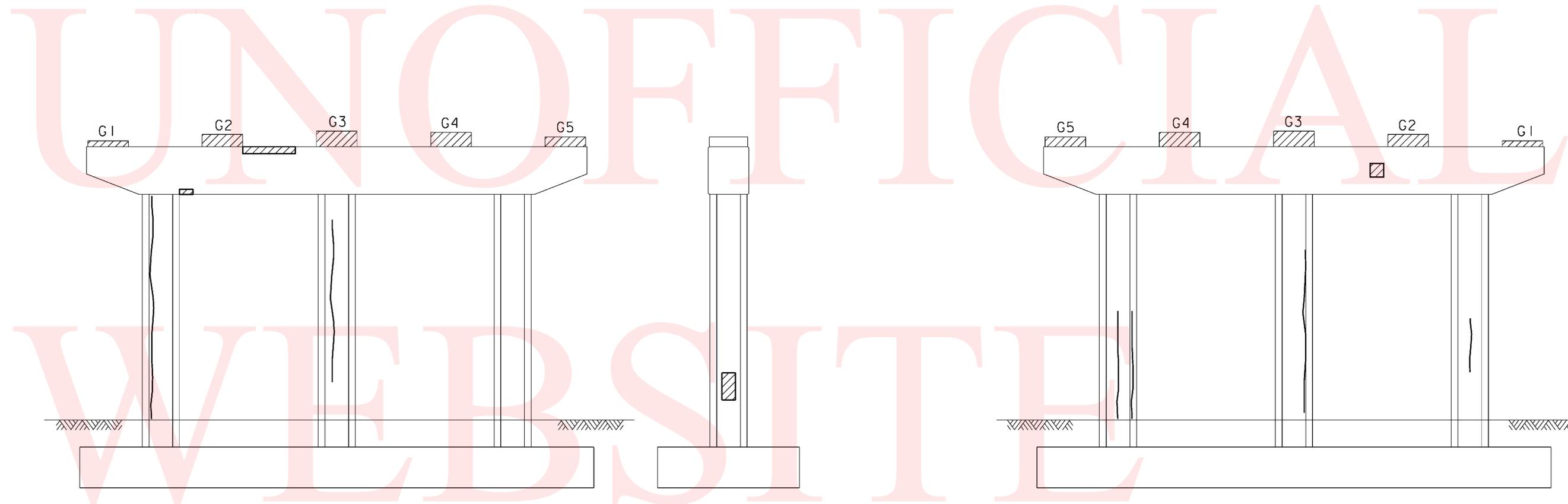
NOT TO SCALE

INTERSTATE BRIDGE MAINTENANCE, SOUTH

CONTRACT	BRIDGE NO.	1-701
T201207402	DESIGNED BY:	TAD
COUNTY	CHECKED BY:	AJF/MAA
NEW CASTLE		

ABUTMENT CONCRETE REPAIRS

SHEET NO.	9
TOTAL SHTS.	89



BRIDGE 701 - PIER 1
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

END VIEW
(EAST ELAVATION)
 NOT TO SCALE

BRIDGE 701 - PIER 1
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

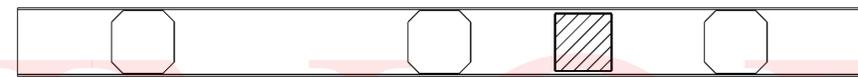
NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURED SINCE THE INSPECTIONS.

NOTE: ALL PEDESTALS HAVE RANDOM OPEN CRACKING WITH LIGHT SPALLS

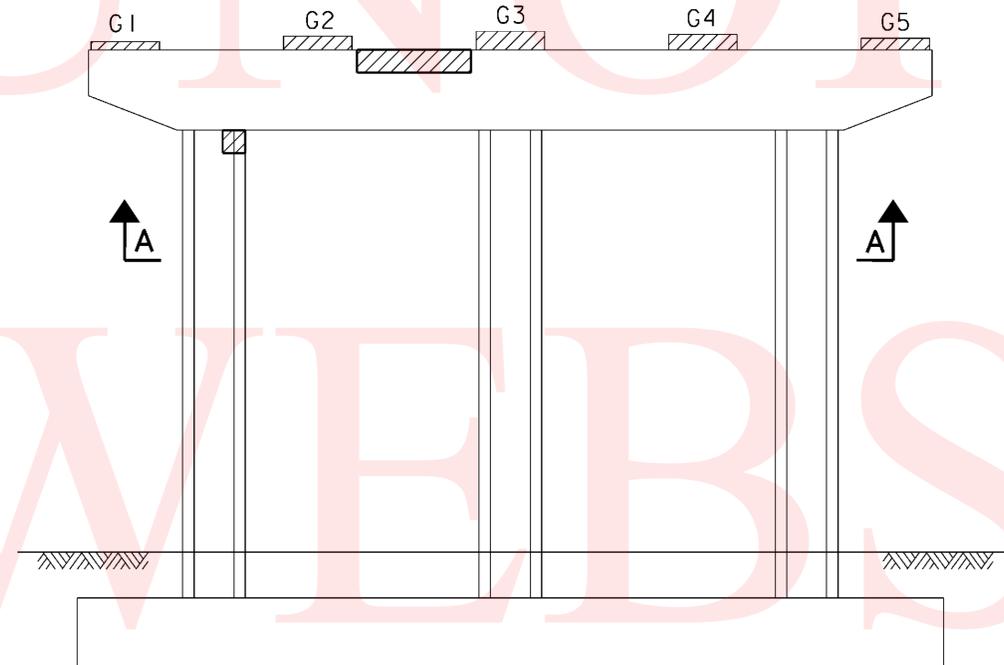
LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR



SECTION A-A - UNDERSIDE OF CAP

NOT TO SCALE



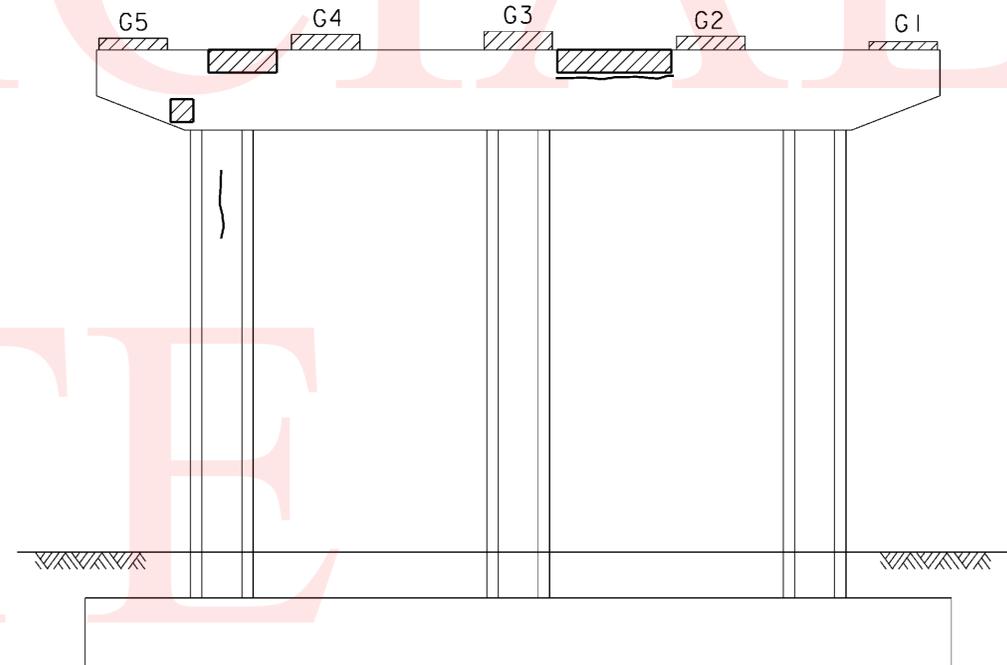
**BRIDGE 701 - PIER 2
CONCRETE REPAIR (SOUTH ELEVATION)**

NOT TO SCALE



TOP OF CAP

NOT TO SCALE



**BRIDGE 701 - PIER 2
CONCRETE REPAIR (NORTH ELEVATION)**

NOT TO SCALE

NOTE:
SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

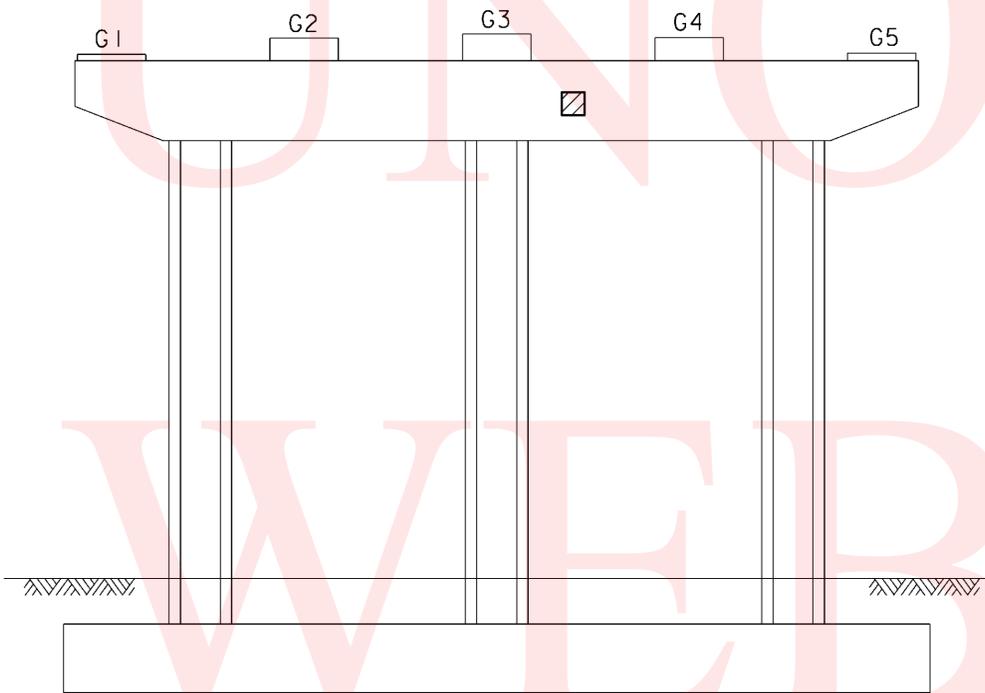
PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURED SINCE THE INSPECTIONS.

NOTE: ALL PEDESTALS HAVE RANDOM OPEN CRACKING WITH LIGHT SPALLS

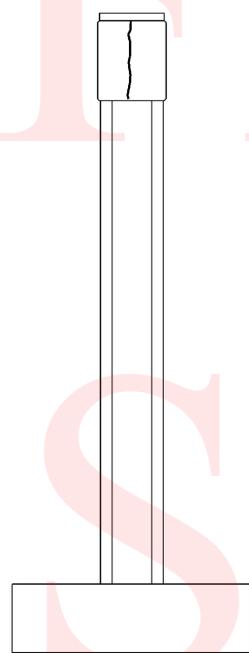
LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

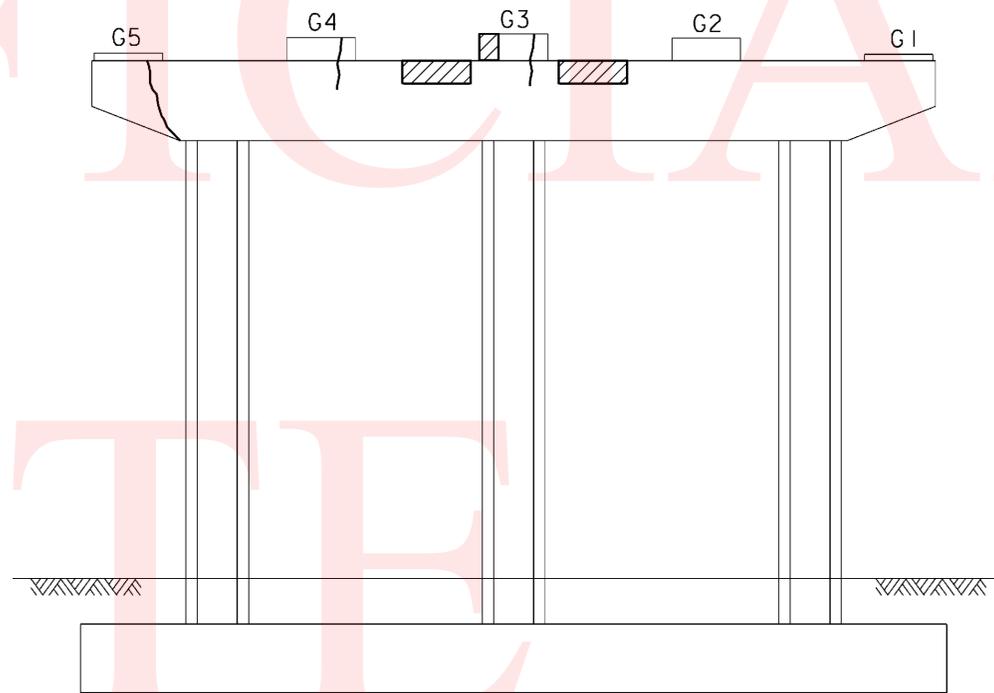
UNOFFICIAL
WEBSITE



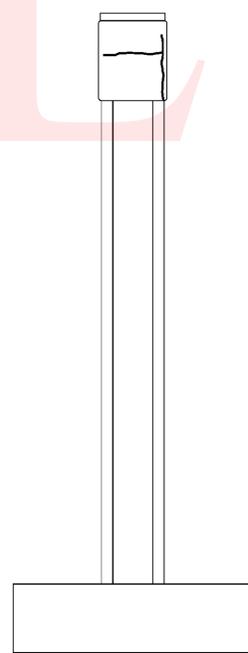
BRIDGE 701 - PIER 3
CONCRETE REPAIR (SOUTH ELEVATION)
NOT TO SCALE



END VIEW
(EAST ELEVATION)
NOT TO SCALE



BRIDGE 701 - PIER 3
CONCRETE REPAIR (NORTH ELEVATION)
NOT TO SCALE



END VIEW
(WEST ELEVATION)
NOT TO SCALE

NOTE:
SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURED SINCE THE INSPECTIONS.

LEGEND:

- DEEP SPALL REPAIR
- DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
- CRACK REPAIR

ADDENDUMS / REVISIONS

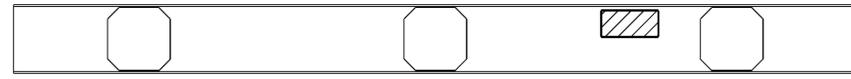
NOT TO SCALE

INTERSTATE BRIDGE
MAINTENANCE,
SOUTH

CONTRACT	BRIDGE NO.	1-701
T201207402	DESIGNED BY: TAD	
COUNTY	CHECKED BY: AJF/MAA	
NEW CASTLE		

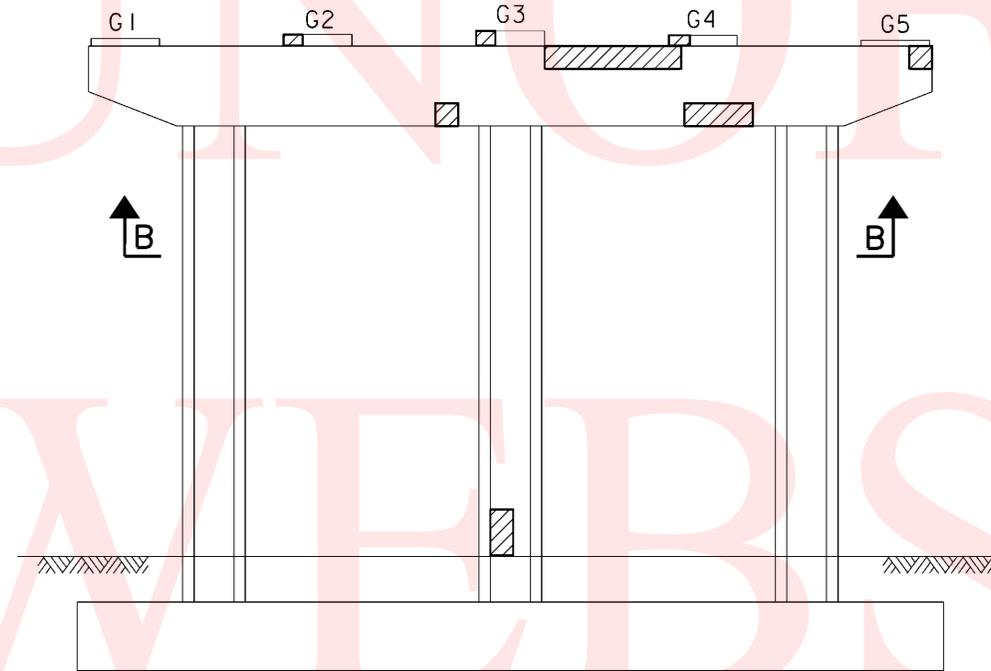
PIER 3 CONCRETE REPAIRS

SHEET NO.	12
TOTAL SHTS.	89



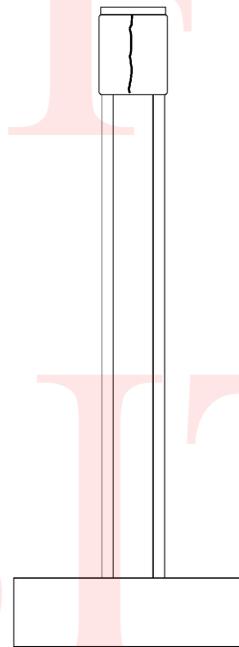
SECTION B-B - UNDERSIDE OF DECK

NOT TO SCALE



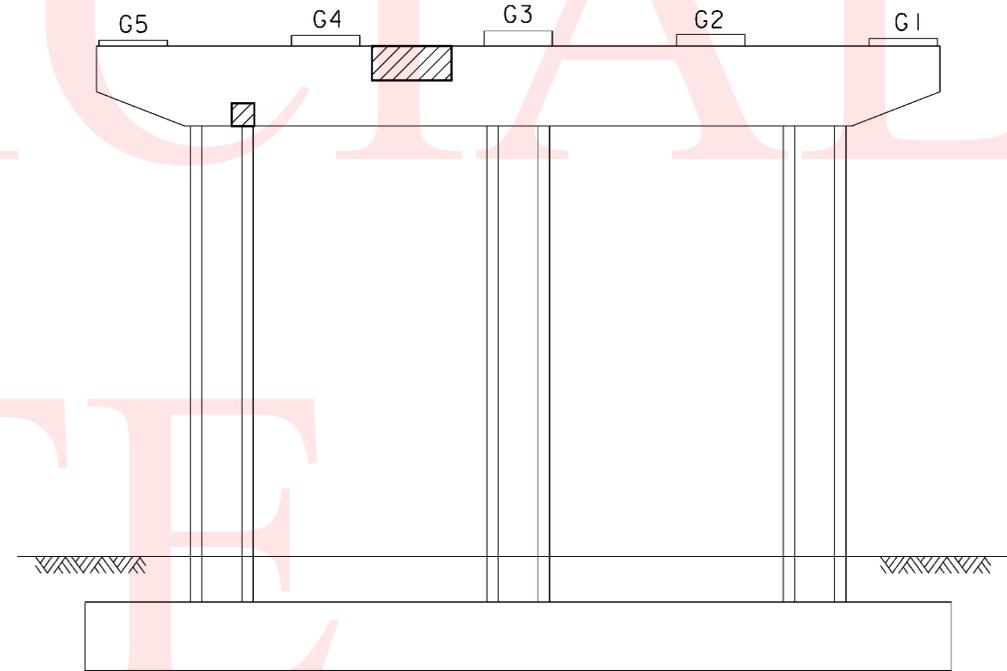
**BRIDGE 701 - PIER 4
CONCRETE REPAIR (SOUTH ELEVATION)**

NOT TO SCALE



**END VIEW
(EAST ELEVATION)**

NOT TO SCALE



**BRIDGE 701 - PIER 4
CONCRETE REPAIR (NORTH ELEVATION)**

NOT TO SCALE

NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR



W5-3-DE
(48' x 48")



W21-5-DE
(48' x 48")



END ROAD WORK

G20-2
(48' x 24")

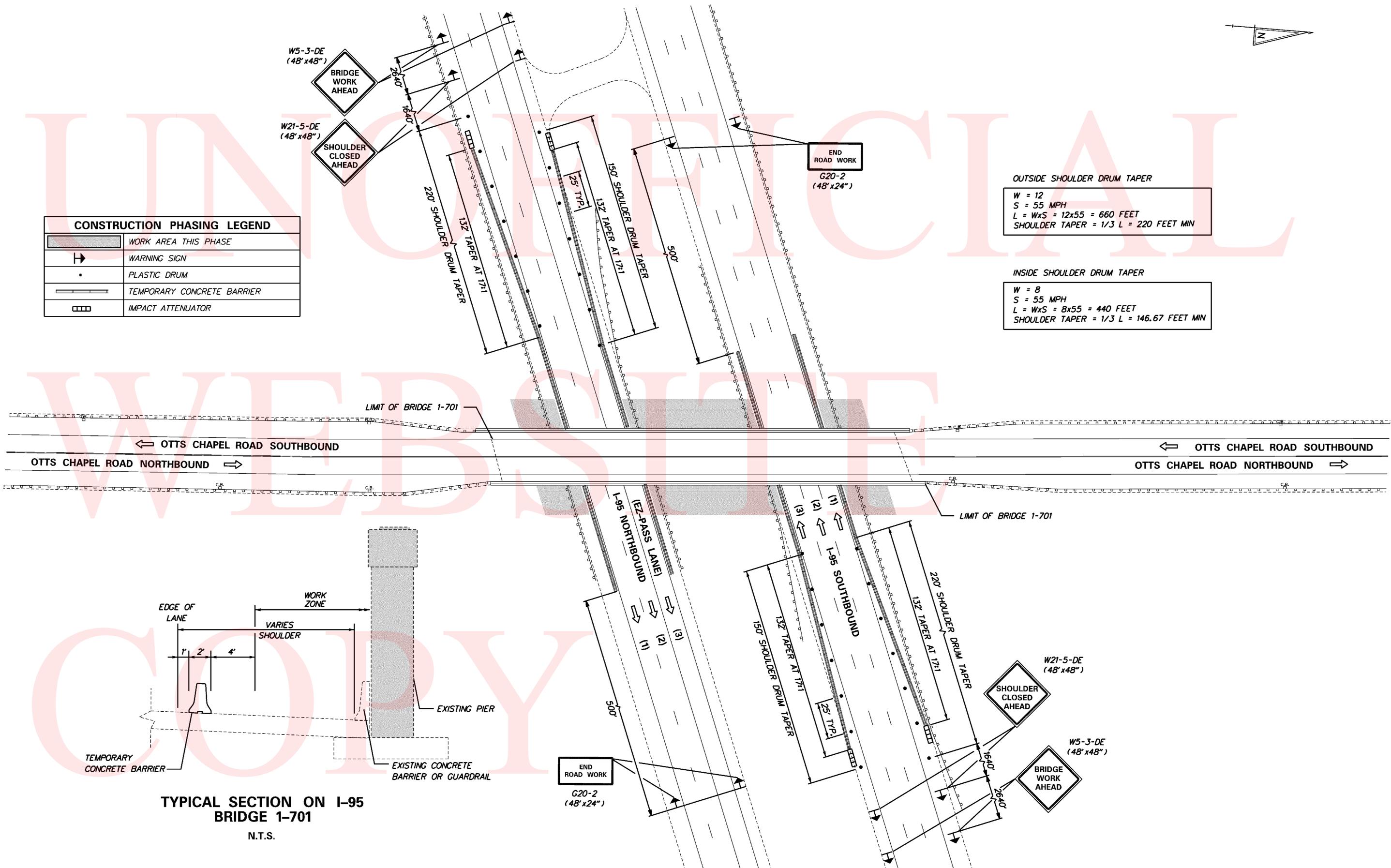
OUTSIDE SHOULDER DRUM TAPER

W = 12
S = 55 MPH
L = WxS = 12x55 = 660 FEET
SHOULDER TAPER = 1/3 L = 220 FEET MIN

INSIDE SHOULDER DRUM TAPER

W = 8
S = 55 MPH
L = WxS = 8x55 = 440 FEET
SHOULDER TAPER = 1/3 L = 146.67 FEET MIN

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

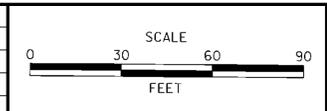


**TYPICAL SECTION ON I-95
BRIDGE 1-701**
N.T.S.

8/24/2012

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ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	1-701
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	3,144 LF
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	3,144 LF
(R)	6" BLACKOUT TAPE (ITEM 748518)	5,160 LF
(W)	REMOVAL OF PAVEMENT STRIPING (ITEM 748530)	1,128 LF

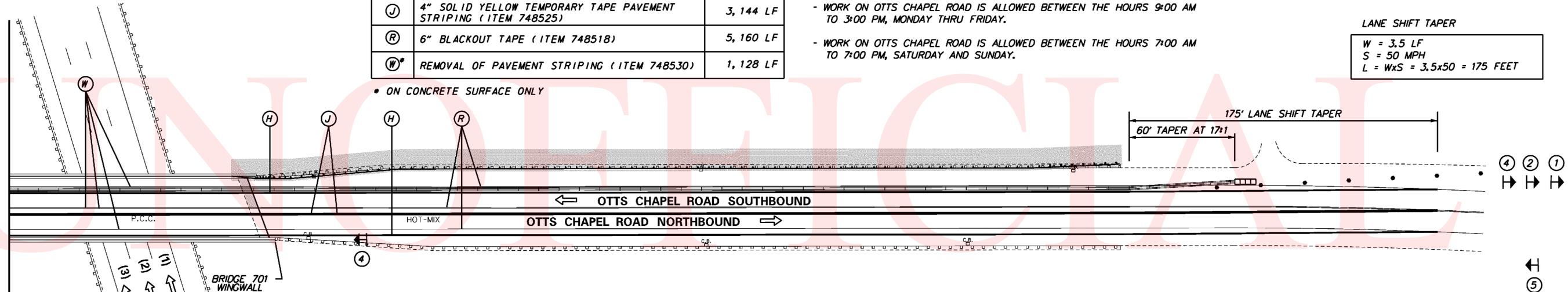
NOTES:

- THE CONTRACTOR SHALL USE CASE TA-3 OR CASE TA-10 OF MUTCD, PART 6 FOR BRIDGE DECK WORK.
- WORK ON OTTS CHAPEL ROAD IS ALLOWED BETWEEN THE HOURS 9:00 AM TO 3:00 PM, MONDAY THRU FRIDAY.
- WORK ON OTTS CHAPEL ROAD IS ALLOWED BETWEEN THE HOURS 7:00 AM TO 7:00 PM, SATURDAY AND SUNDAY.

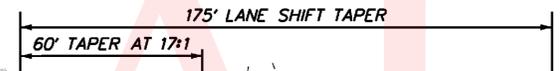
LANE SHIFT TAPER	
W	= 3.5 LF
S	= 50 MPH
L	= W x S = 3.5 x 50 = 175 FEET



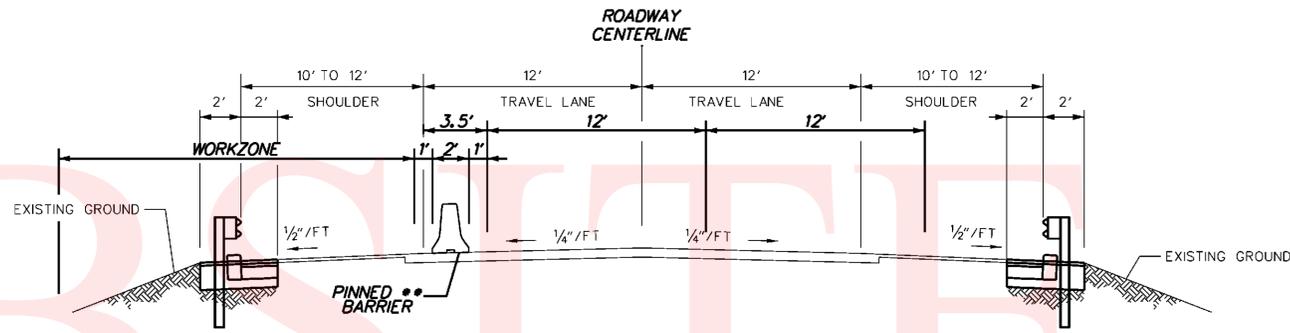
MATCHLINE AA



• ON CONCRETE SURFACE ONLY

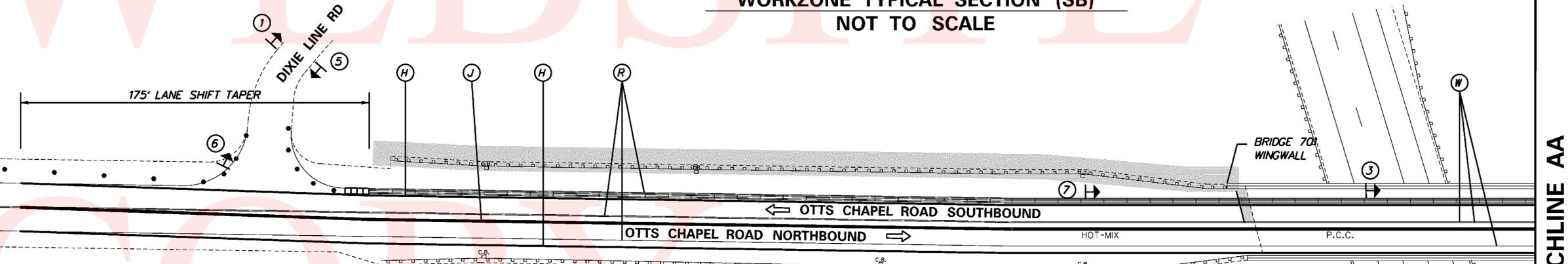


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



WORKZONE TYPICAL SECTION (SB)
NOT TO SCALE

•• DO NOT USE PINNED BARRIER ON THE BRIDGE DECK



MATCHLINE AA

WARNING SIGN LEGEND						
W20-1 48" X 48"	W1-4-DE 48" X 48"	W1-4R 48" X 48"	W1-4L 48" X 48"	G20-2 48" X 24"	R1-1 30" X 30"	W21-10-DE 48" X 48"
1	2	3	4	5	6	7

SIGN SPACING SHALL BE 500' AS PER TABLE 6C-1 (DELDOT MUTCD)

8/24/2012

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TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	3,144 LF
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	3,144 LF

NOTE: SEE BR 701 CONSTRUCTION SHEET FOR NEW PERMANENT MARKINGS ON BRIDGE

NOTES:

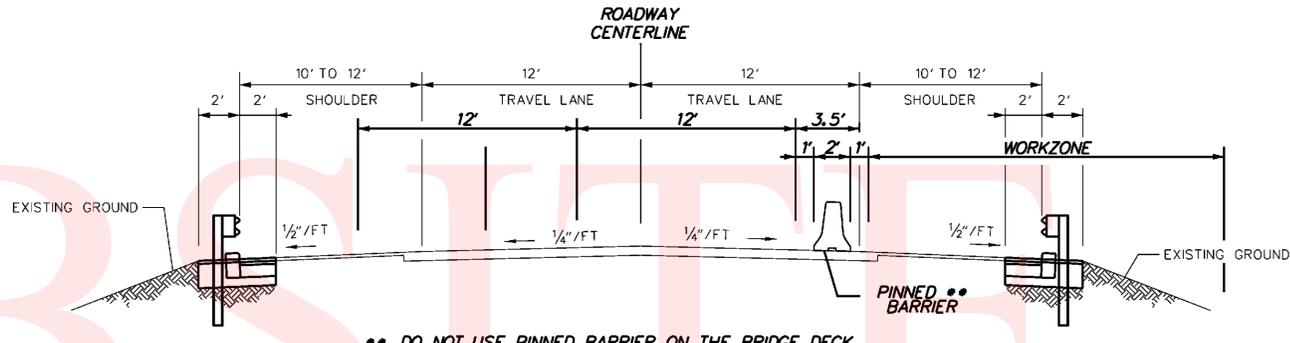
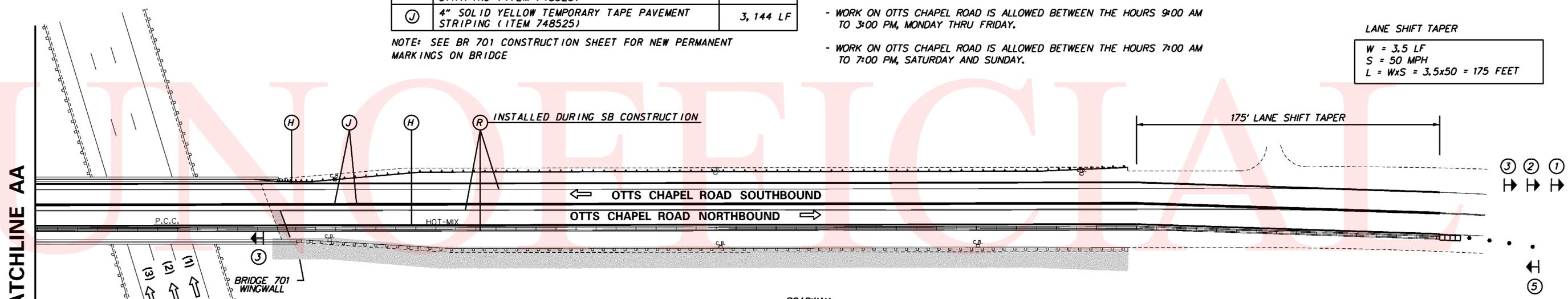
- THE CONTRACTOR SHALL USE CASE TA-3 OR CASE TA-10 OF MUTCD, PART 6 FOR BRIDGE DECK WORK.
- WORK ON OTTS CHAPEL ROAD IS ALLOWED BETWEEN THE HOURS 9:00 AM TO 3:00 PM, MONDAY THRU FRIDAY.
- WORK ON OTTS CHAPEL ROAD IS ALLOWED BETWEEN THE HOURS 7:00 AM TO 7:00 PM, SATURDAY AND SUNDAY.

LANE SHIFT TAPER

$W = 3.5 \text{ LF}$
 $S = 50 \text{ MPH}$
 $L = W \times S = 3.5 \times 50 = 175 \text{ FEET}$

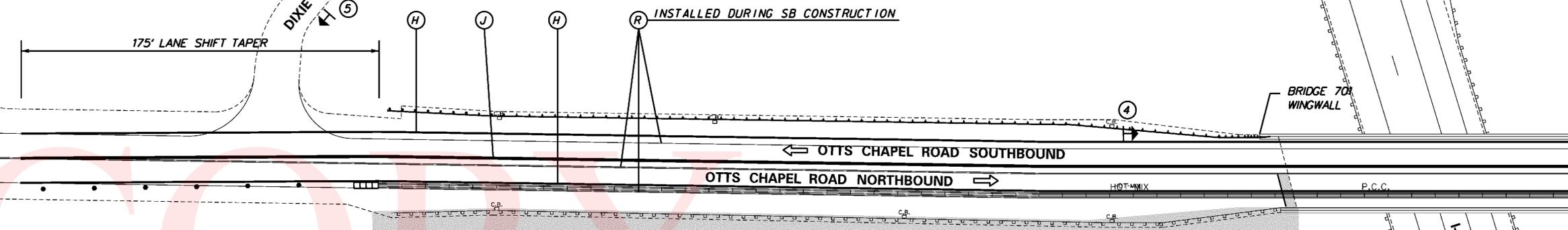
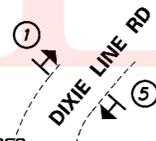


MATCHLINE AA



WORKZONE TYPICAL SECTION (NB)
NOT TO SCALE

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



MATCHLINE AA

WARNING SIGN LEGEND				
W20-1 48" X 48"	W1-4-DE 48" X 48"	W1-4R 48" X 48"	W1-4L 48" X 48"	G20-2 48" X 24"
(1)	(2)	(3)	(4)	(5)

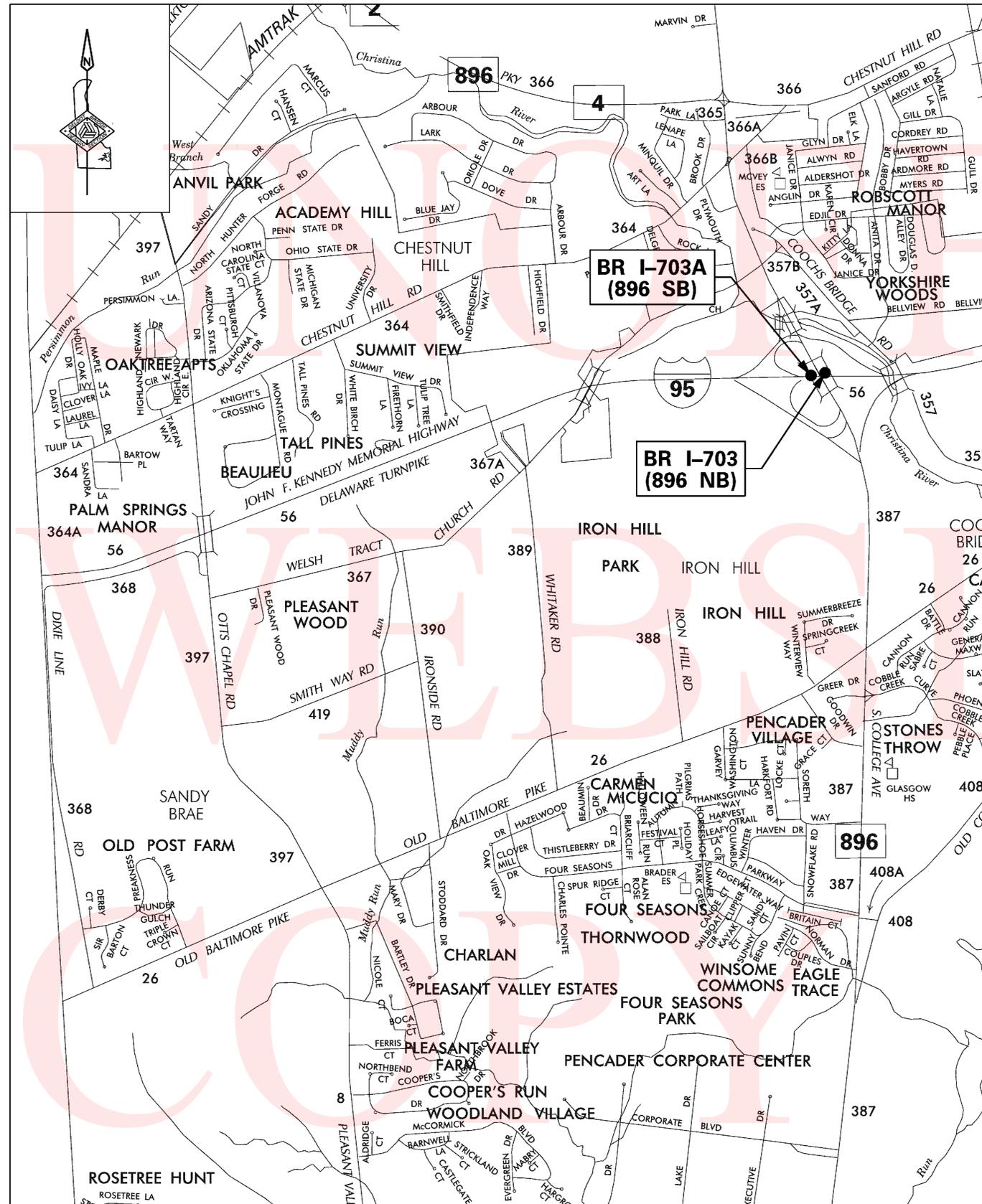
SIGN SPACING SHALL BE 500' AS PER TABLE 6C-1 (DELDOT MUTCD)

8/24/2012

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>FEET</p>	<p>INTERSTATE BRIDGE MAINTENANCE, SOUTH</p>	CONTRACT T201207402	BRIDGE NO. 1-701	<p>CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN ON NB BRIDGE 1-701 NB</p>	SHEET NO. 16
				NEW CASTLE	DESIGNED BY: LB		CHECKED BY: MAA

BR 1-703 QUANTITIES



LOCATION PLAN
BR I-703

ITEM	U.O.M.	ITEM DESCRIPTION	QUANTITY
201000	L.S.	CLEARING AND GRUBBING	1
202001	L.S.	EXCAVATION AND EMBANKMENT	1
211000	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1
251001	L.F.	REINFORCED SILT FENCE	440
302008	C.Y.	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	542
401821	TON	WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 64-22, PATCHING	242
401822	TON	WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	325
401823	TON	WMA, SUPERPAVE, BCBC, 160 GYR., PG 64-22, PATCHING	698
406001	S.Y.-IN	HOT-MIX PATCHING	40098
406507	L.F.	CRACK SEALING	196
602013	C.Y.	P.C.C. MASONRY, SUPERSTRUCTURE, CLASS D	45
602014	C.Y.	P.C.C. MASONRY, APPROACH SLAB, CLASS D	14
602015	C.Y.	P.C.C. MASONRY, ABUTMENT ABOVE FOOTING, CLASS A	15
602017	C.Y.	PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A	136
602518	S.F.	WATER BASED ACRYLIC CONCRETE SEALER	7369
602549	S.F.	FORM LINERS	725
602572	L.B.	REPAIRING EXISTING P.C.C. STRUCTURES	6695
602575	S.F.	DECK REPAIR, 1" TO 3" DEPTH	39
602578	L.F.	REPAIRING JOINTS AND CRACKS WITH MORTAR	2847
602579	EACH	DRILLING HOLES AND INSTALLING DOWELS	1784
602580	C.Y.	PARTIAL REMOVAL OF P.C.C. MASONRY	248
602586	C.F.	REHABILITATION OF CONCRETE STRUCTURE	11
602611	L.F.	REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION	69
602612	L.S.	ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS	1
602620	S.F.	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC.	189
602626	L.F.	ROUT AND SEAL CRACKS	69
602629	L.F.	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALKS, ETC.	540
602646	S.F.	SILICONE ACRYLIC CONCRETE SEALER	8076
602757	L.S.	THIN POLYMER OVERLAY (APPROX. 1540 SY-IN)	1
603000	LB	BAR REINFORCEMENT	26260
604000	LB	BAR REINFORCEMENT, EPOXY COATED	1266
605002	L.S.	STEEL STRUCTURES	340
605511	L.F.	PREFABRICATED EXPANSION JOINT SYSTEM, 3"	216
605533	L.S.	CLEANING EXISTING STEEL STRUCTURES, HAZARDOUS BASE (L.S.) - (APPROX. 37,140 S.F.)	1
605616	L.S.	MOISTURE CURED URETHANE PAINT SYSTEM RECOATING, (L.S.) - (APPROX. 37,140 S.F.)	1
605636	EACH	CLEAN AND LUBRICATE BRIDGE BEARINGS	77
605655	EACH	BEARING ANCHOR BOLT REPLACEMENT	2
605692	L.F.	SILICONE JOINT SEAL	102
701012	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	580
701013	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-2	50
710001	EACH	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	8
712526	S.Y.	CONCRETE BLOCK SLOPE PAVING REPAIR, 6"	100
720050	L.F.	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	625
720500	EACH	BULLNOSE END TREATMENT	1
720585	EACH	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 1-31	1
725001	EACH	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	1
725002	EACH	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	1
725006	EACH	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	2
726001	EACH	END ANCHORAGE 31	1
732002	S.Y.	TOPSOIL, 6" DEPTH	534
734013	S.Y.	PERMANENT GRASS SEEDING, DRY GROUND	534
743000	L.S.	MAINTENANCE OF TRAFFIC	1
743003	EA-DY	ARROWPANELS, TYPE C	286
743004	EA-DY	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	412
743005	EA-DY	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	127
743006	EA-DY	PLASTIC DRUMS	21981
743007	HR	TRAFFIC OFFICERS	1660
743008	EACH	REFLECTOR PANELS	102
743010	EA-DY	FURNISH AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE II	155
743013	L.F.	FURNISH PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	1292
743014	LF	RELOCATING PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	1428
743015	L.F.	FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	2344

9/19/2012

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BR 1-703 QUANTITIES

ITEM	U.O.M.	ITEM DESCRIPTION	QUANTITY
743023	LF-DAY	TEMPORARY BARRICADES, TYPE III	1152
743024	EA-DY	TEMPORARY WARNING SIGNS AND PLAQUES	4163
743025	EACH	INSTALL TEMPORARY IMPACT ATTENUATOR	14
743029	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	11
743030	EACH	RELOCATE TEMPORARY IMPACT ATTENUATOR	3
743031	HOURL	ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR	832
743056	HOURL	FLAGGER, NEW CASTLE COUNTY, FEDERAL	1760
743065	HOURL	FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	440
744505	EACH	ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	1
745500	L.F.	GALVANIZED CONDUIT IN/ON STRUCTURE, 1"	18
745506	L.F.	GALVANIZED CONDUIT IN/ON STRUCTURE, 2"	417
745507	EACH	EXPANSION FITTING CONDUIT IN/ON STRUCTURE, 2"	6
746509	EACH	RELOCATING LIGHT POLE	4
746525	EACH	ALUMINUM LIGHTING STANDARDS	1
746594	EACH	LUMINAIRE (HPS), 250 WATT	1
746596	EACH	JUNCTION BOX ON STRUCTURE	3
748518	LF	BLACKOUT TAPE, 6"	276
748525	LF	TEMPORARY MARKINGS, TAPE, 4"	1068
748530	S.F.	REMOVAL OF PAVEMENT STRIPING	276
758000	S.Y.	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	139
760001	SYIN	PAVEMENT - MILLING CONCRETE	1540
763000	L.S.	INITIAL EXPENSE	1
763501	L.S.	CONSTRUCTION ENGINEERING	1

BR 1-703A QUANTITIES

ITEM	U.O.M.	ITEM DESCRIPTION	QUANTITY
201000	L.S.	CLEARING AND GRUBBING	1
202001	L.S.	EXCAVATION AND EMBANKMENT	1
211000	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	1
251001	L.F.	REINFORCED SILT FENCE	440
302008	C.Y.	GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	705
401822	TON	WMA, SUPERPAVE TYPE B, 160 GYRATIONS, PG 64-22, PATCHING	117
401823	TON	WMA, SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22, PATCHING	337
401830	TON	WMA, SUPERPAVE TYPE C, 160 GYRATIONS, PG 70-22, (NON-CARBONATE STONE)	1022
406001	S.Y.-IN	HOT-MIX PATCHING	16018
406507	L.F.	CRACK SEALING	193
602013	C.Y.	PORTLAND CEMENT CONCRETE MASONRY, SUPERSTRUCTURE, CLASS D	31
602014	C.Y.	P.C.C. MASONRY, APPROACH SLAB, CLASS D	12
602015	C.Y.	P.C.C. MASONRY, ABUTMENT ABOVE FOOTING, CLASS A	12
602017	C.Y.	PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A	123
602518	S.F.	WATER BASED ACRYLIC CONCRETE SEALER	7975
602549	S.F.	FORM LINERS	721
602572	L.B.	REPAIRING EXISTING P.C.C. STRUCTURES	900
602575	S.F.	DECK REPAIR, 1" TO 3" DEPTH	180
602577	S.F.	DECK REPAIR, FULL DEPTH	2
602578	L.F.	REPAIRING JOINTS AND CRACKS WITH MORTAR	2847
602579	EACH	DRILLING HOLES AND INSTALLING DOWELS	1671
602580	C.Y.	PARTIAL REMOVAL OF P.C.C. MASONRY	143
602586	C.F.	REHABILITATION OF CONCRETE STRUCTURE	9
602611	L.F.	REPAIR OF CONCRETE STRUCTURES BY EPOXY INJECTION	189
602612	L.S.	ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS	1
602626	L.F.	ROUT AND SEAL CRACKS	189
602629	L.F.	CRACK SEALING BRIDGE DECKS, APPROACH SLABS, SIDEWALK, ETC.	116
602646	S.F.	SILICONE ACRYLIC CONCRETE SEALER	6403
602757	L.S.	THIN POLYMER OVERLAY (APPROX. 1502 SY-IN)	1
603000	LB	BAR REINFORCEMENT	48
604000	LB	BAR REINFORCEMENT, EPOXY COATED	25663
605511	L.F.	PREFABRICATED EXPANSION JOINT SYSTEM, 3"	183
605533	L.S.	CLEANING EXISTING STEEL STRUCTURES, HAZARDOUS BASE (L.S.) - (APPROX. 29,800 S.F.)	1
605582	EACH	CLEANING BRIDGE SCUPPER	3
605607	L.S.	JACKING BRIDGE	1
605616	L.S.	MOISTURE CURED URETHANE PAINT SYSTEM RECOATING, (L.S.) - (APPROX. 29,800 S.F.)	1

BR 1-703A QUANTITIES

ITEM	U.O.M.	ITEM DESCRIPTION	QUANTITY
605636	EACH	CLEAN AND LUBRICATE BRIDGE BEARINGS	66
605655	EACH	BEARING ANCHOR BOLT REPLACEMENT	2
605692	L.F.	SILICONE JOINT SEAL	92
701011	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 2	1586
701012	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	378
701013	L.F.	PORTLAND CEMENT CONCRETE CURB, TYPE 1-2	350
705002	S.F.	P.C.C. SIDEWALK, 6"	10805
710001	EACH	ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	2
712526	S.Y.	CONCRETE BLOCK SLOPE PAVING REPAIR, 6"	100
720050	L.F.	GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31	650
720500	EACH	BULLNOSE END TREATMENT	1
720586	EACH	GUARDRAIL END TREATMENT ATTENUATOR, TYPE 2-31	1
725001	EACH	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)	1
725002	EACH	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31	1
725006	EACH	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27	2
726001	EACH	END ANCHORAGE 31	1
732002	S.Y.	TOPSOIL, 6" DEPTH	534
734013	S.Y.	PERMANENT GRASS SEEDING, DRY GROUND	534
743000	L.S.	MAINTENANCE OF TRAFFIC	1
743003	EA-DY	ARROWPANELS, TYPE C	494
743004	EA-DY	FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	672
743005	EA-DY	FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	112
743006	EA-DY	PLASTIC DRUMS	34540
743007	HOURL	TRAFFIC OFFICERS	1760
743008	EACH	REFLECTOR PANELS	63
743010	EA-DY	FURNISH AND MAINTAIN TRUCK-MOUNTED ATTENUATOR, TYPE II	156
743013	L.F.	FURNISH PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	612
743014	LF	RELOCATING PORTABLE P.C.C. STRUCTURE MOUNTED SAFETY BARRIER	540
743015	L.F.	FURNISH AND MAINTAIN PORTABLE P.C.C. SAFETY BARRIER	1574
743016	L.F.	RELOCATING PORTABLE P.C.C. SAFETY BARRIER	588
743023	LF-DAY	TEMPORARY BARRICADES, TYPE III	8232
743024	EA-DY	TEMPORARY WARNING SIGNS AND PLAQUES	9378
743025	EACH	INSTALL TEMPORARY IMPACT ATTENUATOR	13
743029	EACH	FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST LEVEL 3	9
743030	EACH	RELOCATE TEMPORARY IMPACT ATTENUATOR	4
743031	HOURL	ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR	884
743056	HOURL	FLAGGER, NEW CASTLE COUNTY, FEDERAL	1920
743065	HOURL	FLAGGER, NEW CASTLE COUNTY, FEDERAL, OVERTIME	130
745500	L.F.	GALVANIZED CONDUIT IN/ON STRUCTURE, 1"	18
745506	L.F.	GALVANIZED CONDUIT IN/ON STRUCTURE, 2"	416
745507	EACH	EXPANSION FITTING CONDUIT IN/ON STRUCTURE, 2"	6
746509	EACH	RELOCATING LIGHT POLE	4
746596	EACH	JUNCTION BOX ON STRUCTURE	3
748015	S.F.	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLASTIC	16
748027	L.F.	PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	35
748513	L.F.	RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 12"	115
748518	LF	BLACKOUT TAPE, 6"	464
748525	LF	TEMPORARY MARKINGS, TAPE, 4"	3733
748530	S.F.	REMOVAL OF PAVEMENT STRIPING	323
748548	L.F.	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT 5"	7694
748557	L.F.	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	2065
748559	L.F.	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 5"	310
749502	S.F.	SIGN PANEL OVERLAY ON EXISTING SIGN	20
758000	S.Y.	REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, CURB, SIDEWALK, ETC.	62
760001	SYIN	PAVEMENT - MILLING CONCRETE	1502
760507	SYIN	PROFILE MILLING, HOTMIX	161758
763000	L.S.	INITIAL EXPENSE	1
763501	L.S.	CONSTRUCTION ENGINEERING	1

ADDENDUMS / REVISIONS

NOT TO SCALE

INTERSTATE BRIDGE
MAINTENANCE,
SOUTH

CONTRACT	BRIDGE NO.	1-703 & 1-703A
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

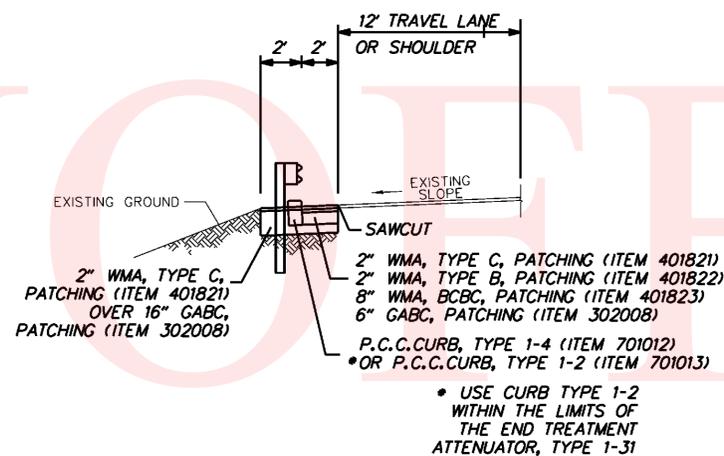
LOCATION
PLAN & QUANTITIES

SHEET NO.	18
TOTAL SHTS.	89

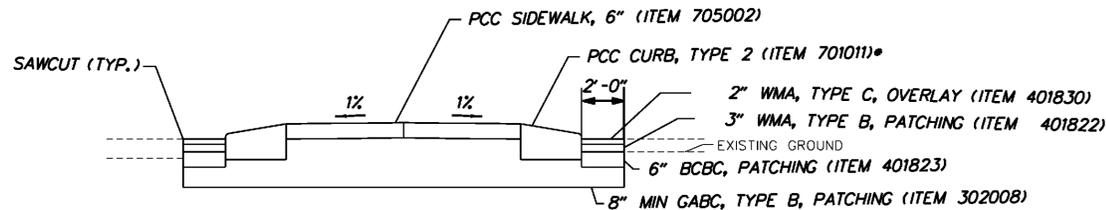
GUARDRAIL SCHEDULE	
NO.	ITEM DESCRIPTION / TYPE
1	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)
2	GUARDRAIL, TYPE 1-31
3	END ANCHORAGE 31
4	GUARDRAIL TO BARRIER CONNECTION (EXIT TYPE 31)
5	GUARDRAIL, TYPE 1-31
6	END ANCHORAGE 31
7	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31
8	GUARDRAIL, TYPE 1-31
9	END TREATMENT ATTENUATOR, TYPE 2-31
10	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31
11	GUARDRAIL, TYPE 1-31
12	END TREATMENT ATTENUATOR, TYPE 1-31
13	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27
14	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27
15	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27
16	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27
17	GALVANIZED TRANSITION SECTION, THRIE BEAM
18	GALVANIZED TRANSITION SECTION, THRIE BEAM
19	GALVANIZED TRANSITION SECTION, THRIE BEAM
20	GALVANIZED TRANSITION SECTION, THRIE BEAM
21	BULLNOSE END TREATMENT
22	BULLNOSE END TREATMENT

NOTES:

- ADJUST SIGNS AS DIRECTED BY THE ENGINEER. COST TO BE INCIDENTAL TO ITEM 201000 - CLEARING AND GRUBBING.
- CLEAN ALL CATCH BASINS. WORK INCIDENTAL TO ITEM 201000 - CLEARING AND GRUBBING.
- GALVANIZED TRANSITION SECTION, THRIE BEAM TO BE INCIDENTAL TO ITEM 720500 - BULLNOSE END TREATMENT



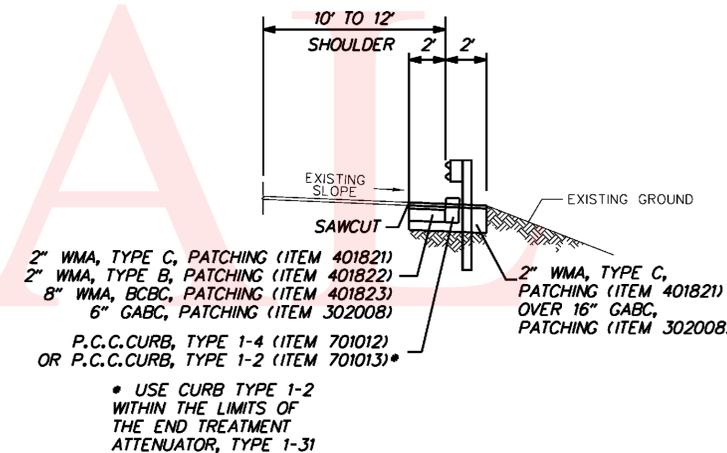
TYPICAL SECTION AT GUARDRAIL (SB)
NOT TO SCALE



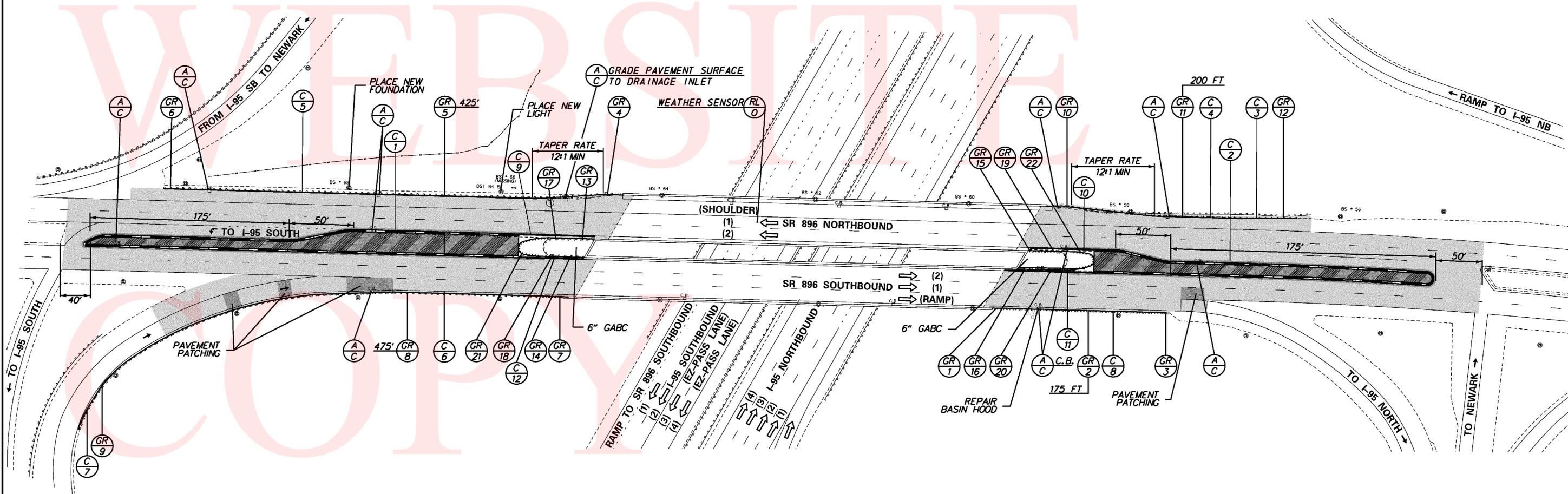
TYPICAL SECTION AT ISLAND
NOT TO SCALE

• DEPRESS CURB WITHIN 75' OF EXISTING BULLNOSE END TREATMENT.

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P. C. C. CURB, TYPE 2	893 LF
2	P. C. C. CURB, TYPE 2	693 LF
3	P. C. C. CURB, TYPE 1-2	50 LF
4	P. C. C. CURB, TYPE 1-4	114 LF
5	P. C. C. CURB, TYPE 1-4	466 LF
6	P. C. C. CURB, TYPE 1-4	190 LF
7	P. C. C. CURB, TYPE 1-2	50 LF
8	P. C. C. CURB, TYPE 1-4	188 LF
9	P. C. C. CURB, TYPE 1-2	75 LF
10	P. C. C. CURB, TYPE 1-2	75 LF
11	P. C. C. CURB, TYPE 1-2	75 LF
12	P. C. C. CURB, TYPE 1-2	75 LF

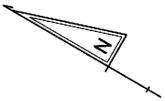


TYPICAL SECTION AT GUARDRAIL (NB)
NOT TO SCALE

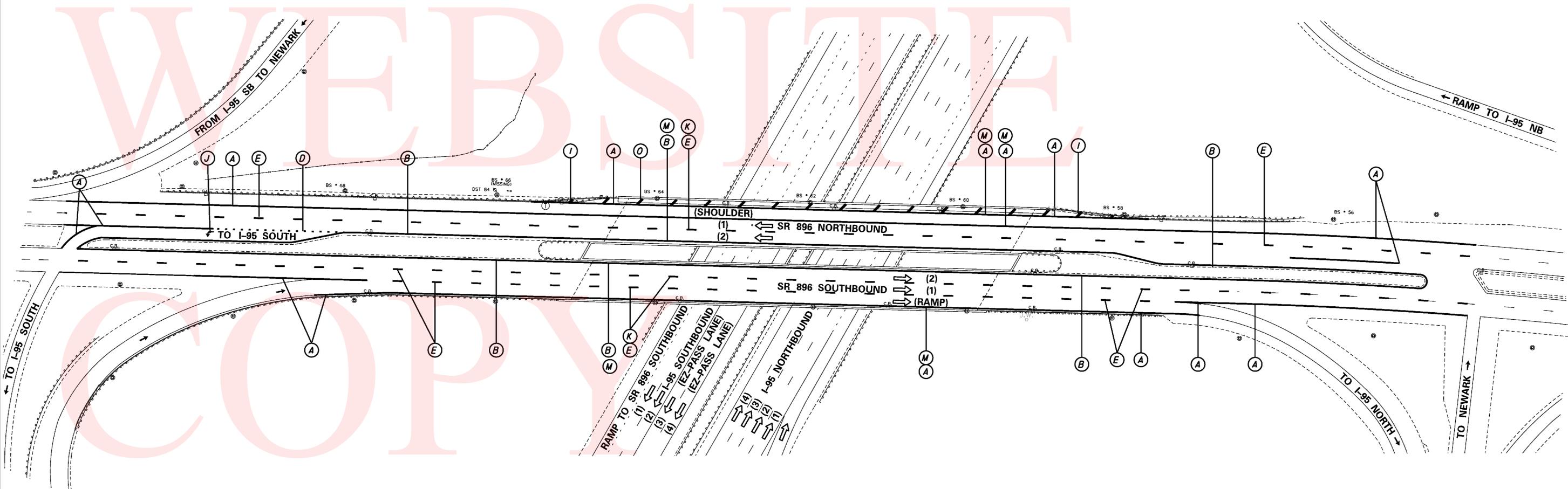


9/19/2012

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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	3,976 LF
(B)	5" SOLID YELLOW EPOXY RESIN PAVEMENT STRIPING (ITEM 748548)	2,760 LF
(D)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 2' LINE & 6' GAP (ITEM 748548)	34 LF
(E)	5" DASHED WHITE EPOXY RESIN PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748548)	924 LF
(I)	12" SOLID YELLOW ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748027)	35 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	16 SF
(K)	5" DASHED BLACK EPOXY RESIN PAVEMENT STRIPING (ITEM 748559)	310 LF
(M)	3" SOLID BLACK EPOXY RESIN PAVEMENT STRIPING (ITEM 748557)	2,065 LF
(O)	12" YELLOW RETROREFLECTIVE PREFORMED PATTERNED MARKINGS (TAPE) (ITEM 748513)	115 LF

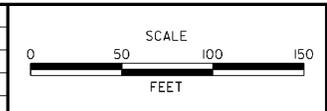


8/24/2012

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DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



INTERSTATE BRIDGE
MAINTENANCE,
SOUTH

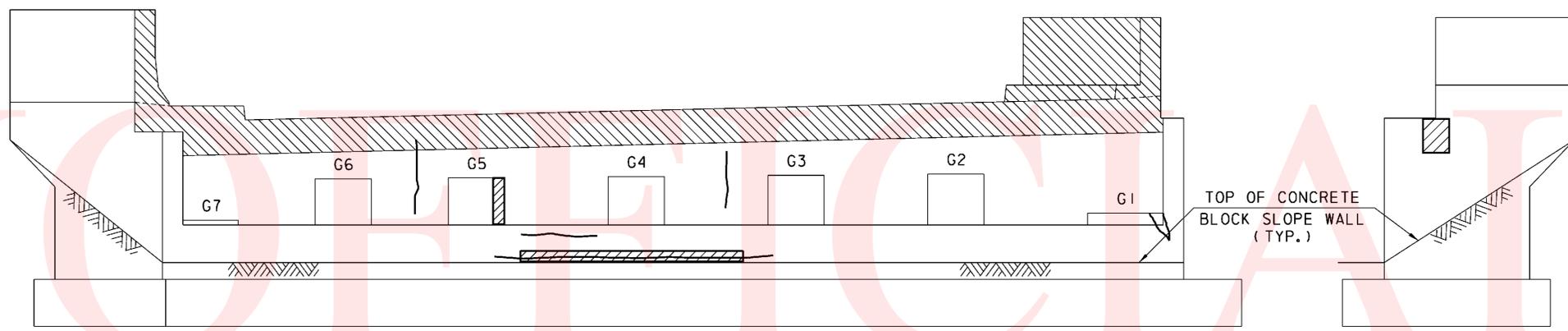
CONTRACT	BRIDGE NO.	1-703 & 1-703A
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

SIGNING AND STRIPING
PLAN
BRIDGE 1-703 & 1-703A

SHEET NO.	20
TOTAL SHTS.	89

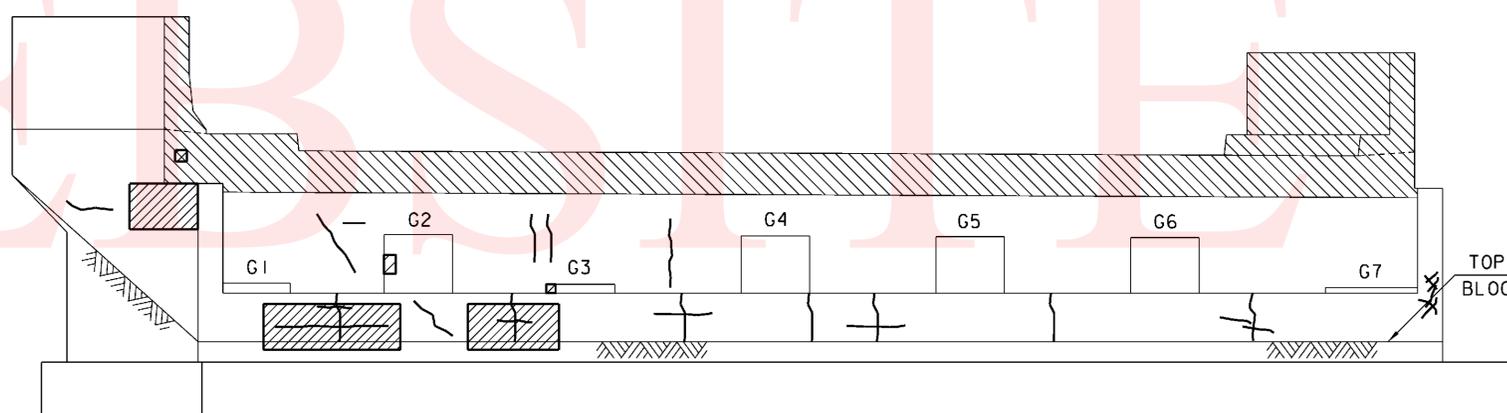
BRIDGE 1-703 NOTES

1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING ONTO I-95 LANES AND SHOULDERS DURING REPAIR ACTIVITIES. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE INCIDENTAL TO ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). BIDDERS SHALL ASSUME THAT ALL FACES OF ALL PIERS FOR THIS BRIDGE MUST BE ACCESSED AND CONTAINED FOR SPALL, CRACK AND DELAMINATION REPAIRS.
2. MILL CONCRETE DECK (ITEM 760001) AS SHOWN ON THE PLANS. SOUND THE CONCRETE DECK WITH A DELDOT INSPECTOR PRESENT AND REPAIR ANY DELAMINATED OR DETERIORATED CONCRETE UNDER THE APPROPRIATE REPAIR ITEM.
3. REPLACE THE EXPANSION JOINTS AS SHOWN IN THE EXPANSION JOINT REPLACEMENT DETAILS PROVIDED. REPAIRS ARE REQUIRED FOR THE FULL DECK WIDTH AT PIERS 1, 2, 3 & 4. PAYMENT SHALL BE INCIDENTAL TO ITEMS 602013, 604000 & 605511. REMOVAL OF EXISTING DECK PORTLAND CEMENT CONCRETE MATERIAL SHALL BE INCIDENTAL TO ITEM 602580, REMOVAL OF EXISTING JOINTS SHALL BE INCIDENTAL TO ITEM 602580.
4. REMOVE THE EXISTING STRUCTURE MOUNTED LIGHTING FIXTURE AND POLE WITHOUT DAMAGING. STORE THE EXISTING LIGHTING FIXTURE AND POLE IN A SAFE LOCATION WHERE IT CAN BE PROTECTED FROM DAMAGE. UPON COMPLETION OF THE BARRIER RECONSTRUCTION, REATTACH THE EXISTING LIGHTING FIXTURE AND POLES AT THE LOCATIONS INDICATED ON THE PLANS. IF THE EXISTING LIGHT FIXTURE AND POLES GET DAMAGED, THE CONTRACTOR WILL REPLACE WITH NEW AT NO ADDITIONAL COST TO THE DEPARTMENT. THE POLE SHALL BE REATTACHED PER THE DETAILS PROVIDED IN THE PLANS. PAYMENT SHALL BE INCIDENTAL TO ITEM 746509. CONDUIT AND JUNCTION BOX INSTALLATION ASSOCIATED WITH THE LIGHT FIXTURE AND POLE INSTALLATION SHALL BE INCIDENTAL TO ITEMS 745500, 745506, 745507 AND 746596.
6. REPLACE THE BARRIERS AND SIDEWALK AS SHOWN IN THE BARRIER REPLACEMENT DETAILS PROVIDED. PAYMENT SHALL BE INCIDENTAL TO ITEMS 602013, 602017 & 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL & ALUMINUM RAILING, RAILING POSTS, AND RAILING CONNECTORS AND ANCHORAGE SHALL BE INCIDENTAL TO ITEM 602580. INSTALLATION OF ANCHORS SHALL BE INCIDENTAL TO ITEM 602579. REPAIR THE SIDEWALK AREA ON THE DECK WITH LATEX CONCRETE PER THE PROVIDED DETAILS. REPAIR THE SIDEWALK AREA OFF THE DECK WITH HOT-MIX BITUMINOUS MATERIAL PER THE PROVIDED DETAIL. PAYMENT SHALL BE INCIDENTAL TO ITEMS 302008, 401821, 401822 AND 401823.
6. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO ALL FACES OF THE BARRIERS. PAYMENT SHALL BE INCIDENTAL TO ITEM 602518.
7. PLACE POLYMER CONCRETE OVERLAY (ITEMS 602757) AS SHOWN ON THE PLANS.
8. REPLACE EXISTING DEBONDED POURABLE SEALS BETWEEN APPROACH SLABS AND BRIDGE DECK. PAYMENT SHALL BE INCIDENTAL TO ITEM 605692.
9. REPAIR MISSING ANCHOR BOLTS AS SHOWN IN ANCHOR BOLT REPAIR DETAILS PROVIDED. AVOID MAIN REINFORCING BARS WHEN DRILLING ANCHOR BOLT HOLES. SHIFT KEEPER ANGLE ALONG GIRDER AS NECESSARY TO AVOID REINFORCEMENT. PAYMENT SHALL BE INCIDENTAL TO ITEM 605655.
10. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE INCIDENTAL TO ITEMS 605533 AND 605616. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM 605616. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAP AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS IS INCIDENTAL TO ITEM 605533.
11. REPAIR SPALLS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES
12. REMOVE AND REPLACE PARTIALLY DETACHED UTILITY SUPPORT STEEL AS SHOWN IN THE PROVIDED DETAILS. REUSE EXISTING UTILITY HANGERS IF HANGERS ARE NOT DAMAGED AND DEEMED ACCEPTABLE FOR REUSE BY THE ENGINEER. REMOVAL OF EXISTING STEEL SHALL BE INCIDENTAL TO ITEM 211000. BLAST CLEAN THE EXISTING DIAPHRAGM SURFACE IN THE AREA OF THE PROPOSED WELDS TO REMOVE ALL RUST, OIL AND DEBRIS. CLEANING OF EXISTING STEEL SURFACES SHALL BE INCIDENTAL TO ITEM 605533. FABRICATION AND ERECTION OF REPLACEMENT STRUCTURAL STEEL SHALL BE INCIDENTAL TO ITEM 605002. PAINTING OF EXISTING BLAST CLEANED SURFACES AND NEW STRUCTURAL STEEL SHALL BE INCIDENTAL TO ITEM 605616.
13. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS USING ITEMS 605533 AND 605616.
14. REPAIR SPALLS AND DELAMINATIONS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED AND DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
15. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. CRACK REPAIR SHALL BE PERFORMED INCIDENTAL TO PAY ITEM 602626 OR 602611, AS APPROVED BY DELDOT INSPECTOR.
16. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. SEE GENERAL NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE INCIDENTAL TO ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
17. REPAIR SPALLS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATION AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
18. REPAIR CRACKS ON PIERS AND PIER CAPS. CRACK REPAIR SHALL BE PERFORMED INCIDENTAL TO PAY ITEMS 602611 AND 602626, AS APPROVED BY DELDOT INSPECTOR.
19. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIER. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE INCIDENTAL TO ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
20. PLACE REINFORCED SILT FENCE (INCIDENTAL TO ITEM 251001) AT TOE OF EMBANKMENT. REPLACE DETERIORATED CONCRETE BLOCK SLOPE PAVING ON BRIDGE EMBANKMENT (INCIDENTAL TO ITEM 712526). REMOVAL AND DISPOSAL OF EXISTING CONCRETE SLOPE PAVING SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 712526. NEW SLOPE PAVING SHALL MATCH EXISTING SLOPE PAVING IN SIZE, AND SHALL BE PAINTED TO MATCH EXISTING (INCIDENTAL TO ITEM 712526). REPAIR MISSING AND DETERIORATED MORTAR JOINTS IN EXISTING CONCRETE BLOCK SLOPE PAVING, PAYMENT SHALL BE INCIDENTAL TO ITEM 602578.
21. APPLY SEALANT AT BASE OF ABUTMENTS & WINGWALLS TO PREVENT STORMWATER FROM PENETRATING BENEATH FOUNDATIONS. PAYMENT SHALL BE INCIDENTAL TO ITEM 406507. ALL VEGETATION, PLANTS AND SMALL TREES GROWING IN VICINITY OF BASE OF ABUTMENT & WINGWALL JOINT SHALL BE REMOVED PRIOR TO APPLYING SEALANT, AS WELL AS EXISTING DETERIORATED AND DEBONDED SEALANT AT JOINT (INCIDENTAL TO PAY ITEM 406507).
22. REGRADE EXISTING GROUND AROUND PIERS 1 AND 5 TO DIRECT SURFACE RUNOFF AWAY FROM BASE OF PIERS. CREATE SWALES AS NECESSARY TO DIRECT RUNOFF INTO EXISTING INLETS AND DITCHES. PLACE SILT FENCE AROUND DISTURBED AREAS. SEED AND MULCH DISTURBED AREAS. PAYMENT SHALL BE INCIDENTAL TO ITEMS 202001, 251001, 734013 AND 732002.
23. CLEAN ALL CATCH BASINS WITHIN WORK LIMITS, COST TO BE INCIDENTAL TO ITEM 201000, CLEARING AND GRUBBING.
24. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONING SHOWN PRIOR TO CALCULATING QUANTITIES AND ORDERING MATERIALS. REINFORCEMENT BAR LENGTHS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING.



BRIDGE 703 - ABUT. 1
CONCRETE REPAIR
 (LOOKING SOUTH)
 NOT TO SCALE

NEAR WEST WING
CONCRETE REPAIR
 NOT TO SCALE



BRIDGE 703 - ABUT. 2
CONCRETE REPAIR
 (LOOKING NORTH)
 NOT TO SCALE

FAR EAST WING
CONCRETE REPAIR
 NOT TO SCALE

NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

ABUTMENT CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

- LEGEND:
-  DEEP SPALL REPAIR
 -  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
 -  CRACK REPAIR
 -  TO BE REMOVED

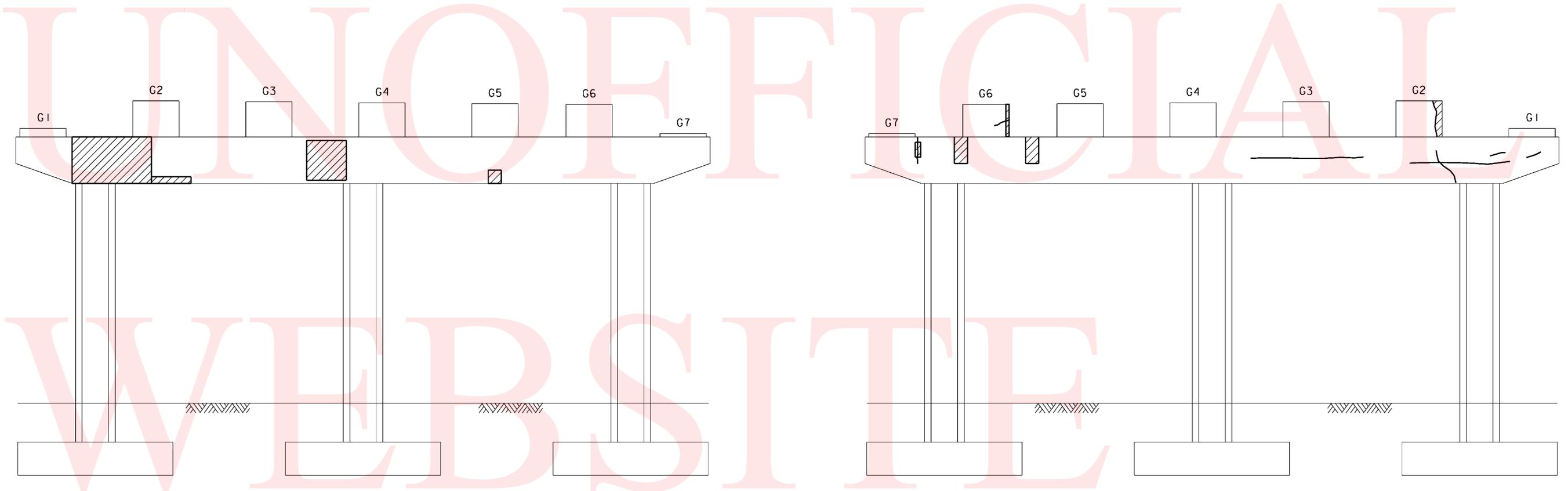
ADDENDUMS / REVISIONS	

NOT TO SCALE

INTERSTATE BRIDGE
 MAINTENANCE,
 SOUTH

CONTRACT	BRIDGE NO.	1-703
T201207402	DESIGNED BY:	AJF
COUNTY	CHECKED BY:	BSB/MAA
NEW CASTLE		

ABUTMENT CONCRETE REPAIRS



BRIDGE 703 - PIER 1
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

BRIDGE 703 - PIER 1
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

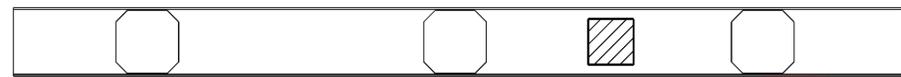
NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

- LEGEND:
-  DEEP SPALL REPAIR
 -  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
 -  CRACK REPAIR

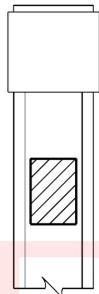
 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	

INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	1-703	SHEET NO.	23
	T201207402	DESIGNED BY: AJF		PIER 1 CONCRETE REPAIRS	TOTAL SHTS.
	COUNTY	CHECKED BY: BSB/MAA			89
	NEW CASTLE				



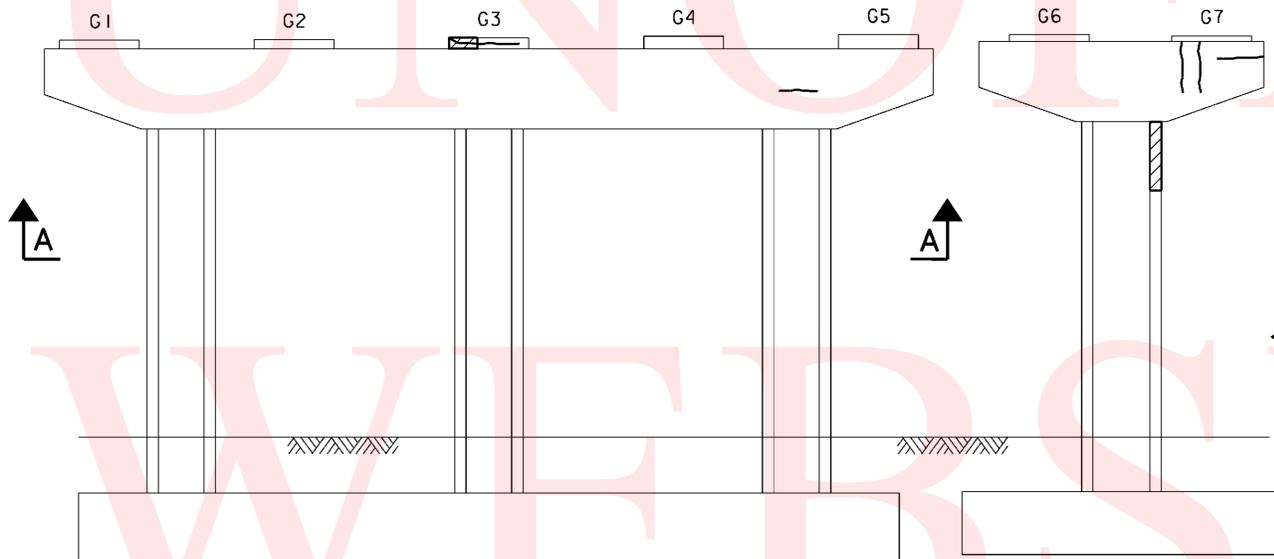
SECTION A-A - UNDERSIDE OF CAP

NOT TO SCALE



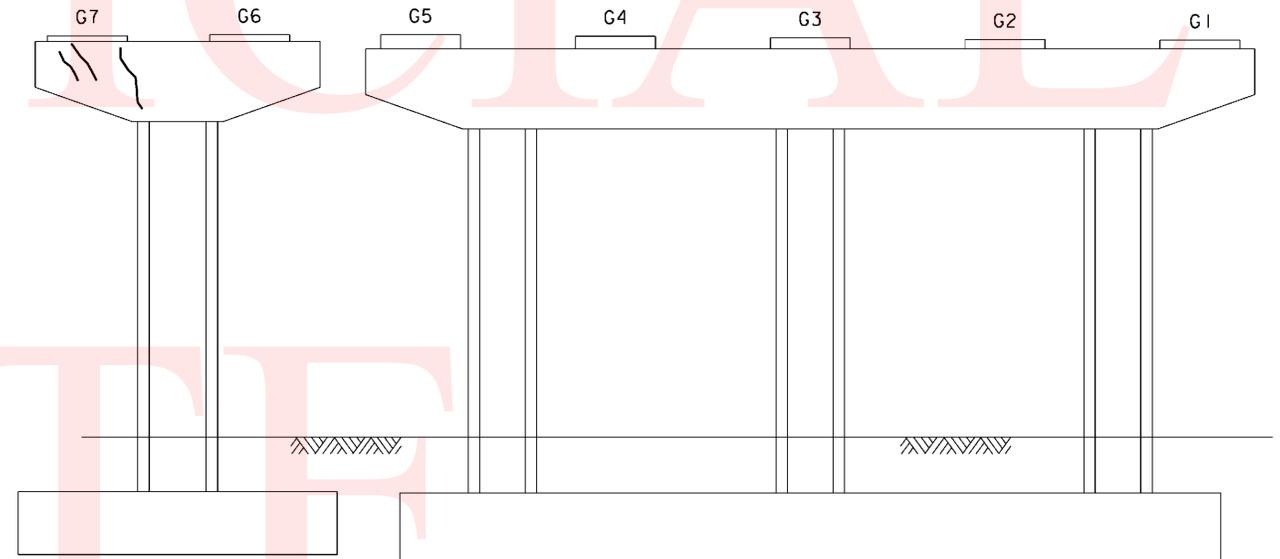
VIEW B-B

NOT TO SCALE



**BRIDGE 703 - PIER 2
CONCRETE REPAIR (SOUTH ELEVATION)**

NOT TO SCALE



**BRIDGE 703 - PIER 2
CONCRETE REPAIR (NORTH ELEVATION)**

NOT TO SCALE

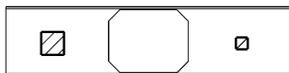
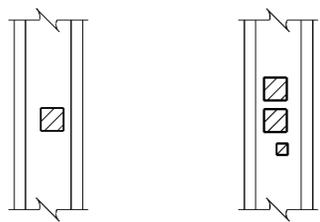
NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

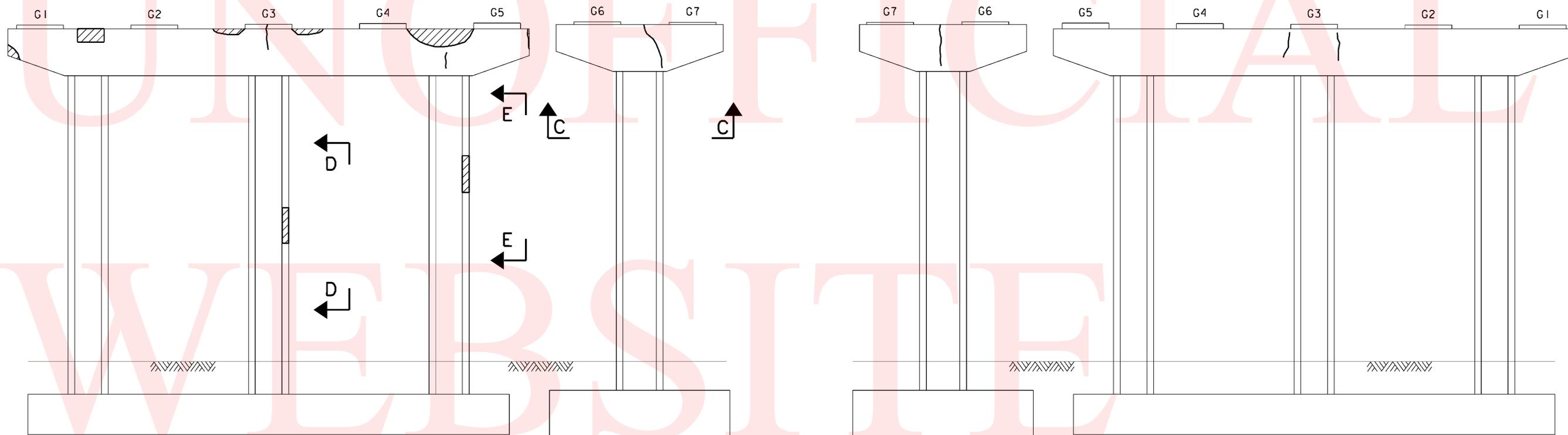


SECTION C-C - UNDERSIDE OF CAP

NOT TO SCALE

VIEW D-D
NOT TO SCALE

VIEW E-E
NOT TO SCALE



BRIDGE 703 - PIER 3
CONCRETE REPAIR (SOUTH ELEVATION)

NOT TO SCALE

BRIDGE 703 - PIER 3
CONCRETE REPAIR (NORTH ELEVATION)

NOT TO SCALE

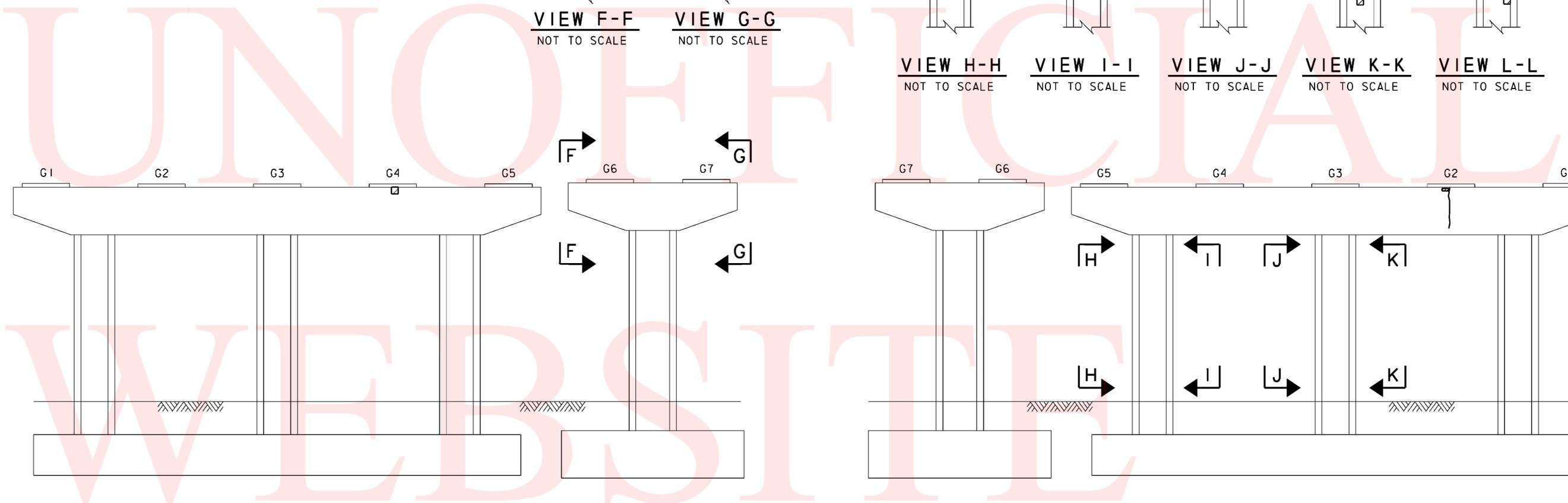
NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR



BRIDGE 703 - PIER 4
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

BRIDGE 703 - PIER 4
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

- LEGEND:
-  DEEP SPALL REPAIR
 -  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
 -  CRACK REPAIR

ADDENDUMS / REVISIONS	

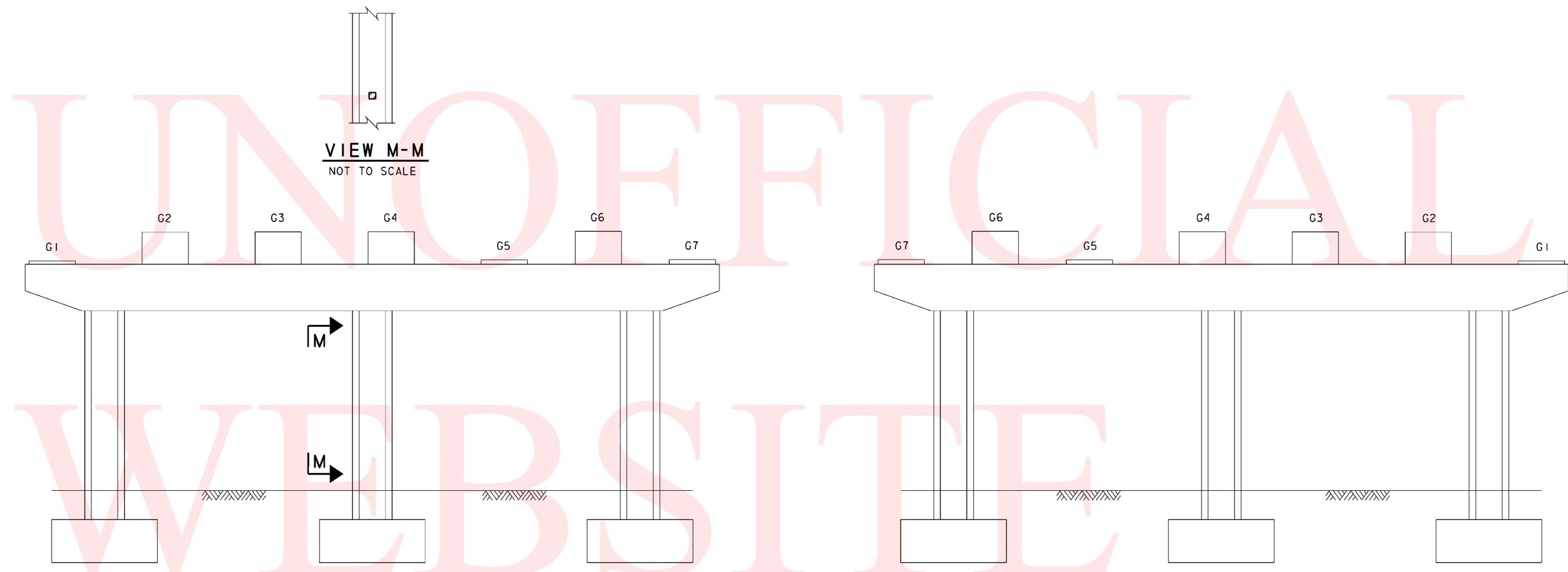
NOT TO SCALE

INTERSTATE BRIDGE
 MAINTENANCE,
 SOUTH

CONTRACT	BRIDGE NO.	1-703
T201207402	DESIGNED BY:	AJF
COUNTY	CHECKED BY:	BSB/MAA
NEW CASTLE		

PIER 4 CONCRETE REPAIRS

SHEET NO.	26
TOTAL SHTS.	89



BRIDGE 703 - PIER 5
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

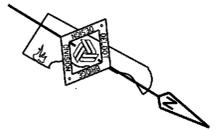
BRIDGE 703 - PIER 5
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

NOTE:
 SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

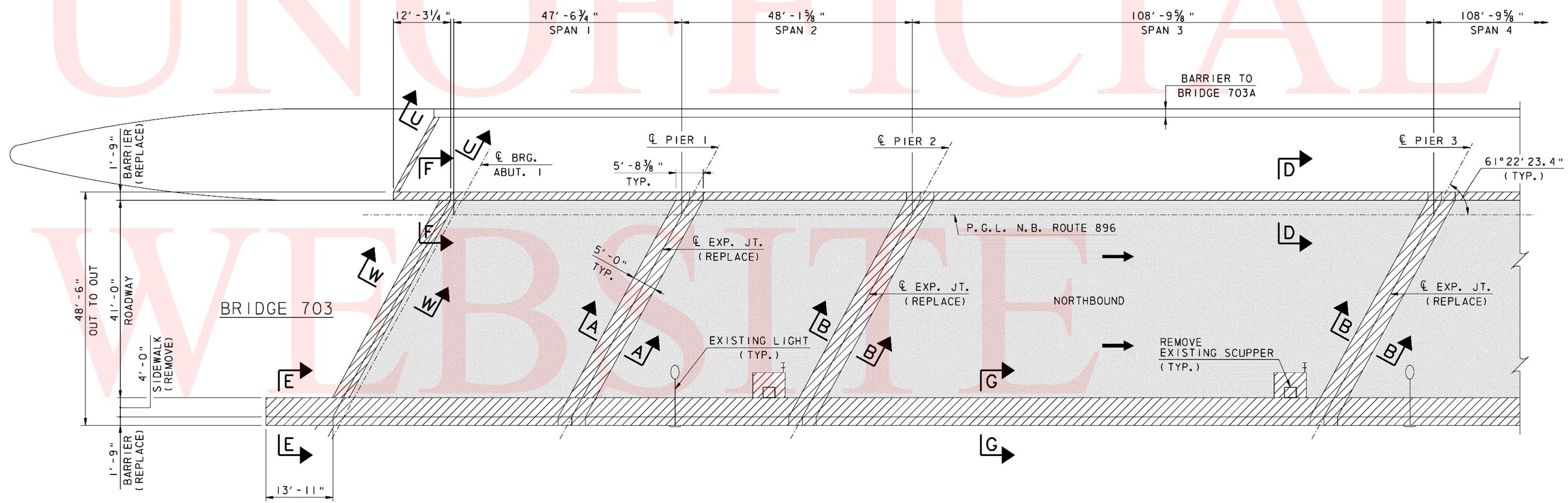
PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR



UNOFFICIAL



DECK PLAN - DEMOLITION
SCALE: 3/32" = 1'-0"

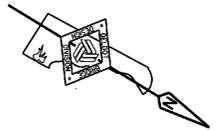
NOTES:

- FOR SECTIONS A-A, B-B, E-E, D-D, F-F, G-G, AND U-U, SEE THE EXPANSION JOINT AND BARRIER DEMOLITION DETAILS SHEET.
- FOR SECTIONS W-W, SEE BACKWALL REPAIR AND SCUPPER REMOVAL DETAILS SHEET.

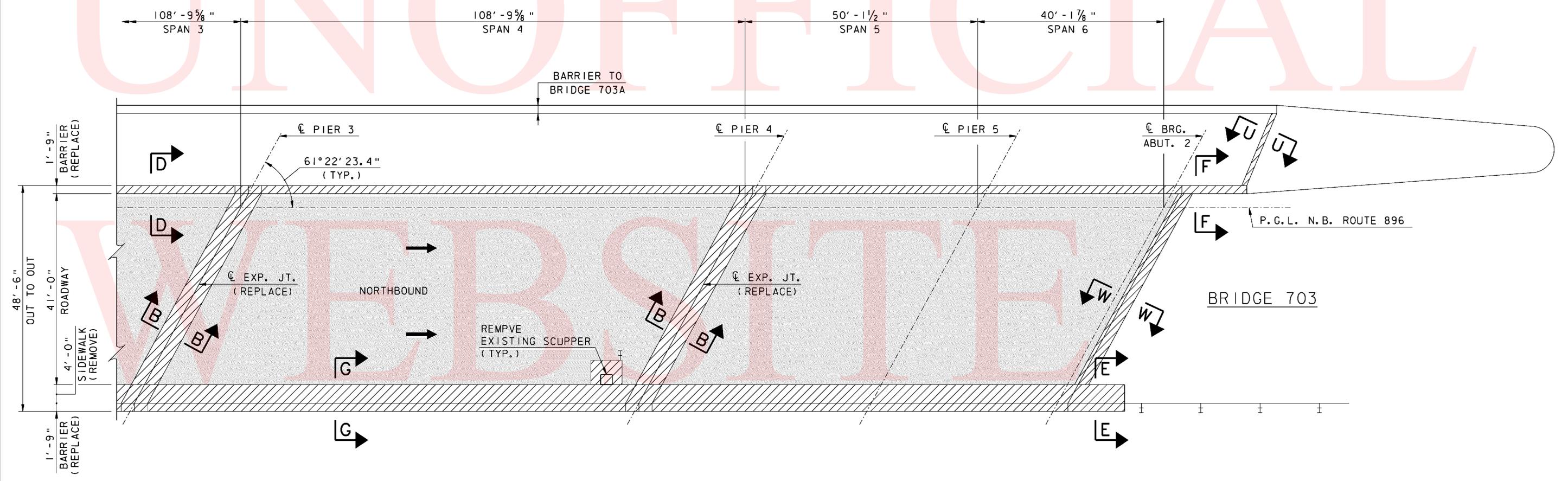
LEGEND:

- TO BE REMOVED
- 1/8" CONCRETE MILLING

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		SCALE AS NOTED	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	1-703	DEMOLITION PLAN SPANS 1 THRU 3	SHEET NO.
					T201207402	DESIGNED BY: AJF	28		
					COUNTY	CHECKED BY: BSB/MAA	TOTAL SHTS.		
					NEW CASTLE				89



UNOFFICIAL



DECK PLAN - DEMOLITION
SCALE: 1/2" = 1'-0"

COPY

NOTES:

- FOR SECTIONS B-B, D-D, E-E, F-F, G-G, AND U-U, SEE THE EXPANSION JOINT AND BARRIER DEMOLITION DETAILS.
- FOR SECTIONS W-W, SEE BECKWALL REPAIR AND SCUPPER REMOVAL DETAILS SHEET.

LEGEND:

- TO BE REMOVED
- 7/8" CONCRETE MILLING

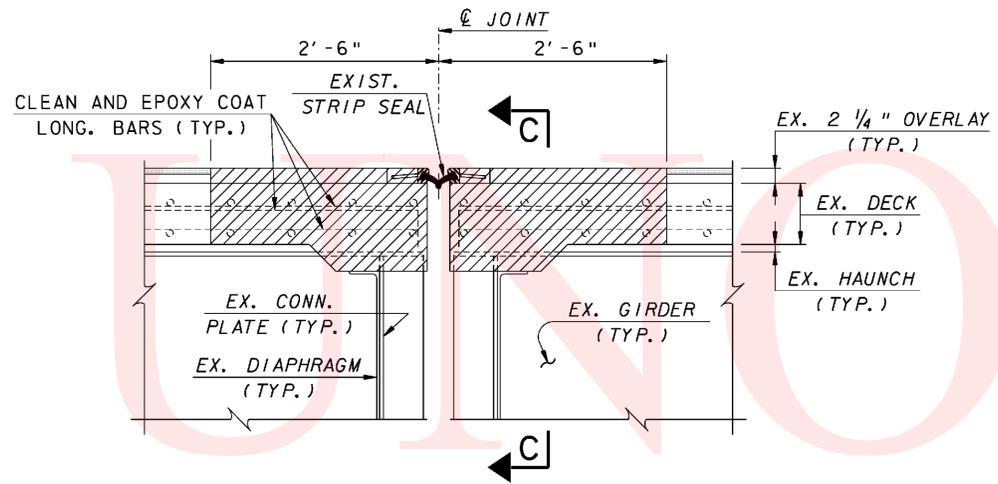
ADDENDUMS / REVISIONS

SCALE AS NOTED

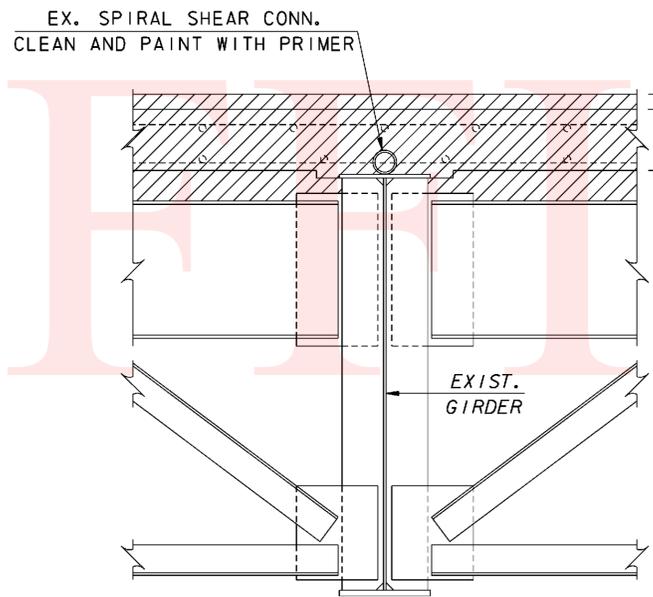
INTERSTATE BRIDGE MAINTENANCE, SOUTH

CONTRACT	BRIDGE NO.	1-703
T201207402	DESIGNED BY:	AJF
COUNTY	CHECKED BY:	BSB/MAA
NEW CASTLE		

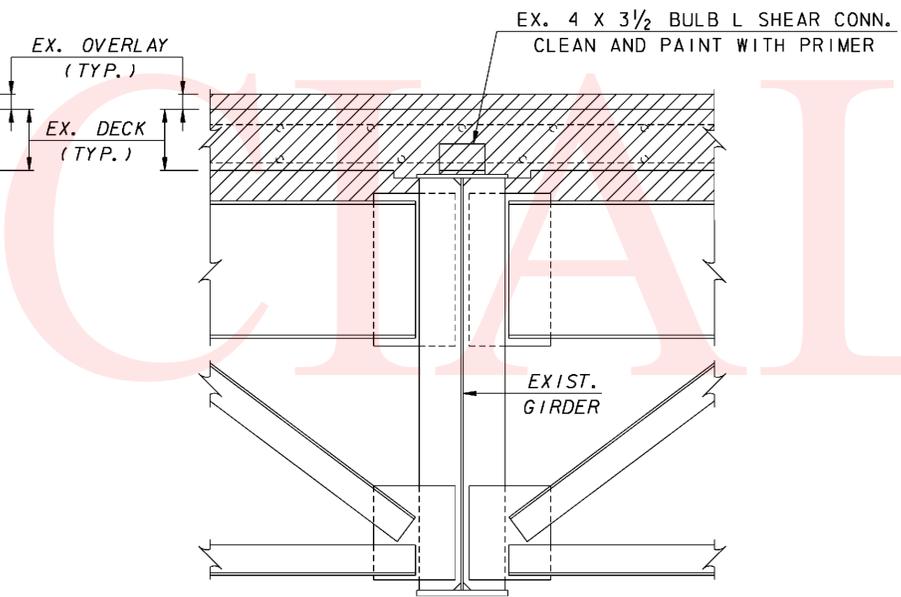
DEMOLITION PLAN SPANS 4 THRU 6
SHEET NO. 29
TOTAL SHTS. 89



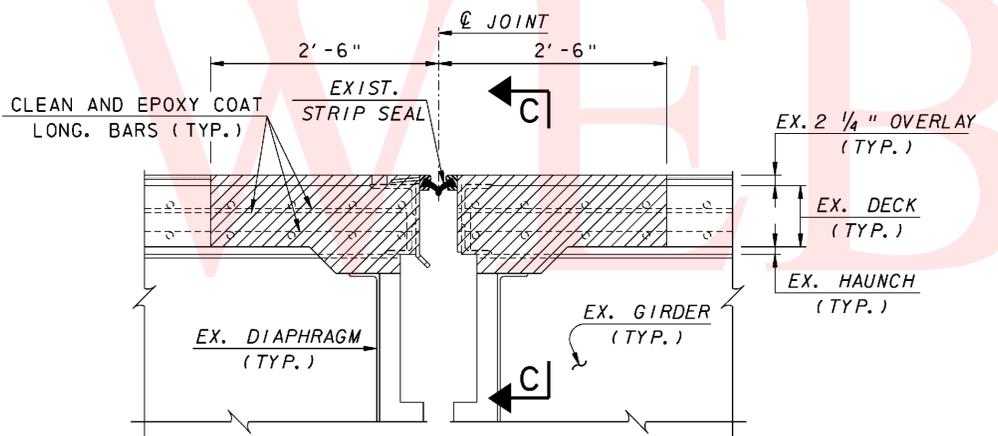
SECTION A-A
PIER 1
SCALE: 1" = 1'-0"



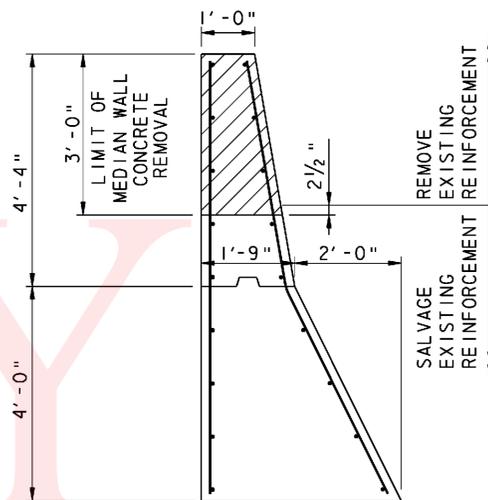
SECTION C-C
SCALE: 1" = 1'-0"



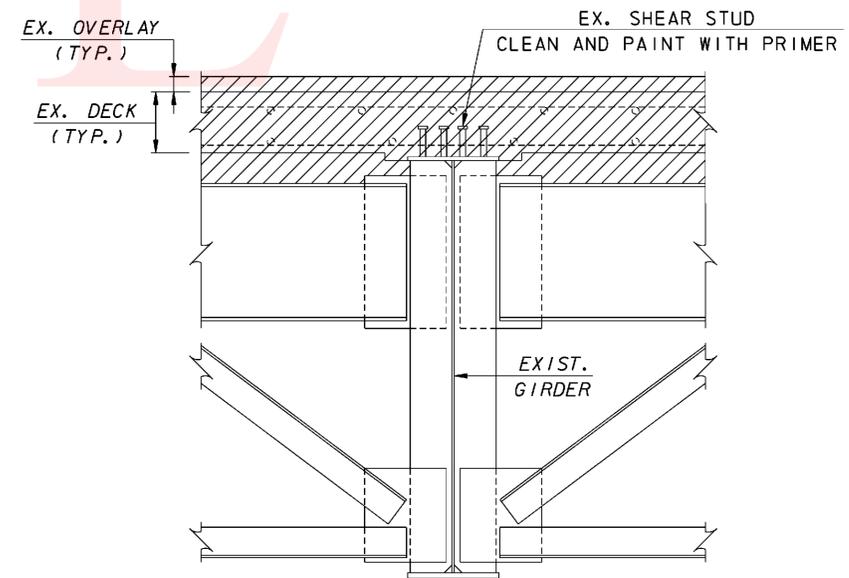
ALTERNATE SECTION C-C
SCALE: 1" = 1'-0"



SECTION B-B
PIERS 2, 3 & 4
SCALE: 1" = 1'-0"

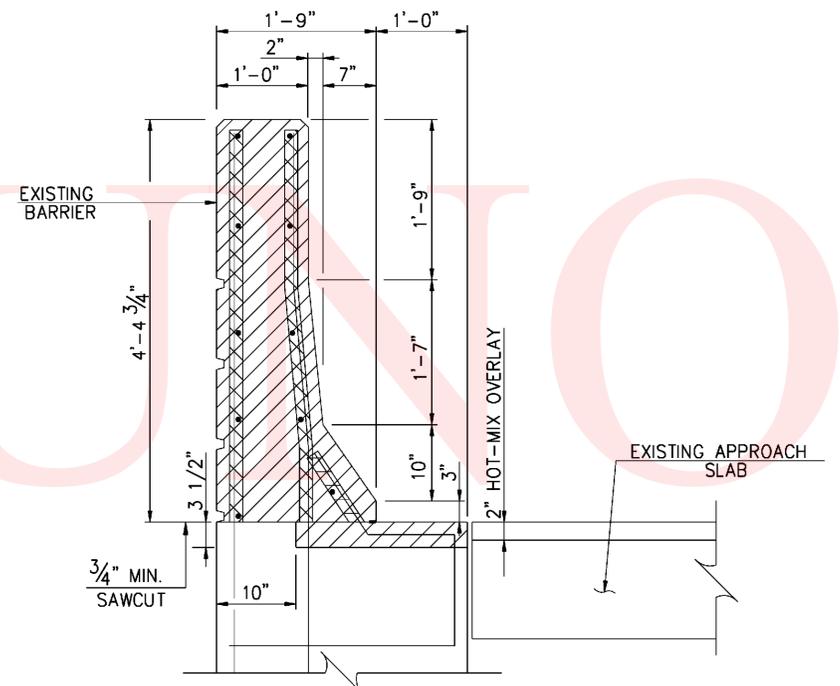


SECTION U-U
NOT TO SCALE

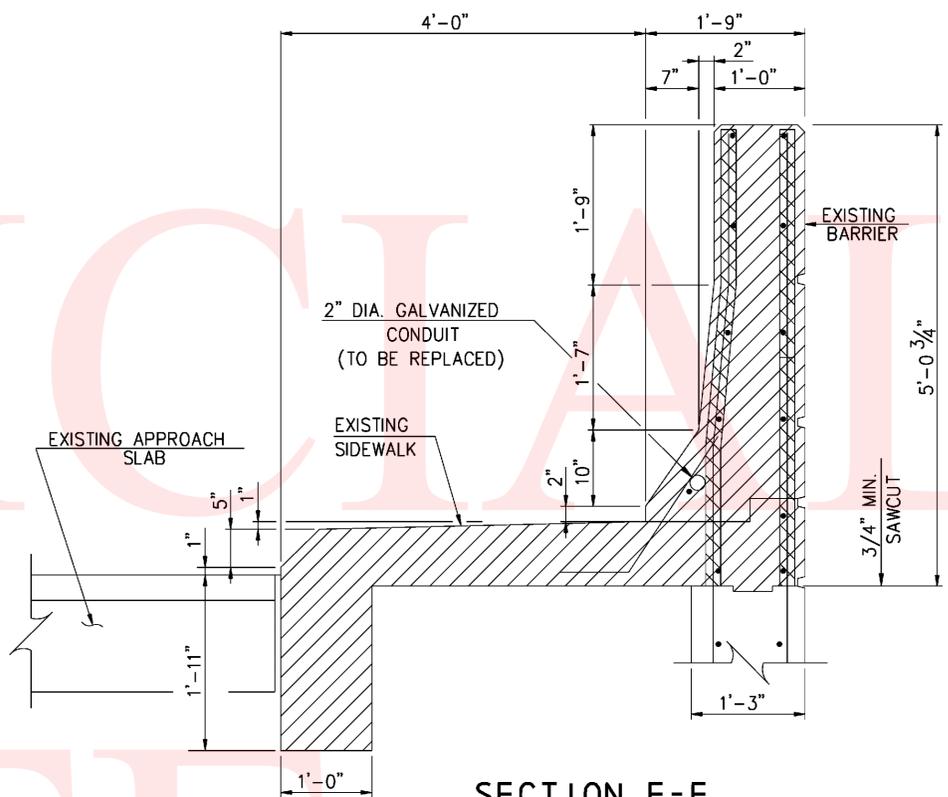


ALTERNATE SECTION C-C
SCALE: 1" = 1'-0"

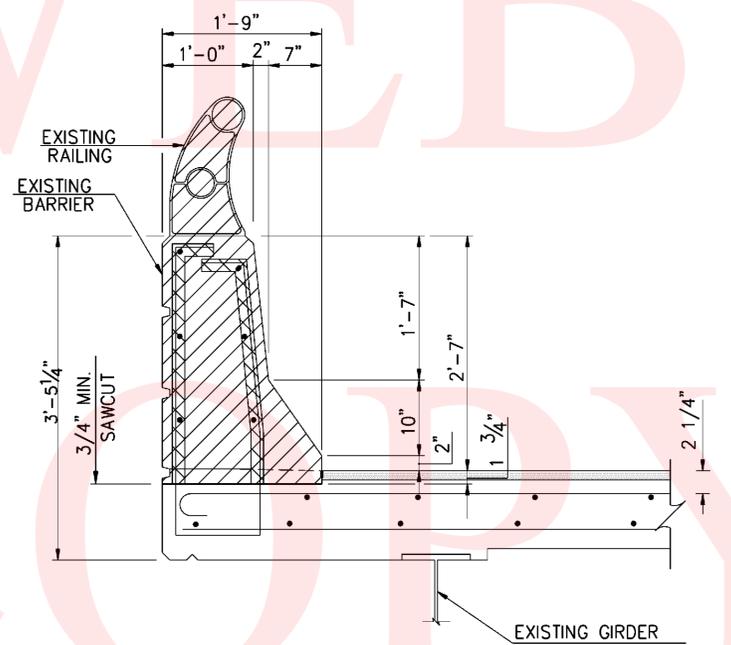
- LEGEND:
- TO BE REMOVED
 - 7/8" CONCRETE MILLING



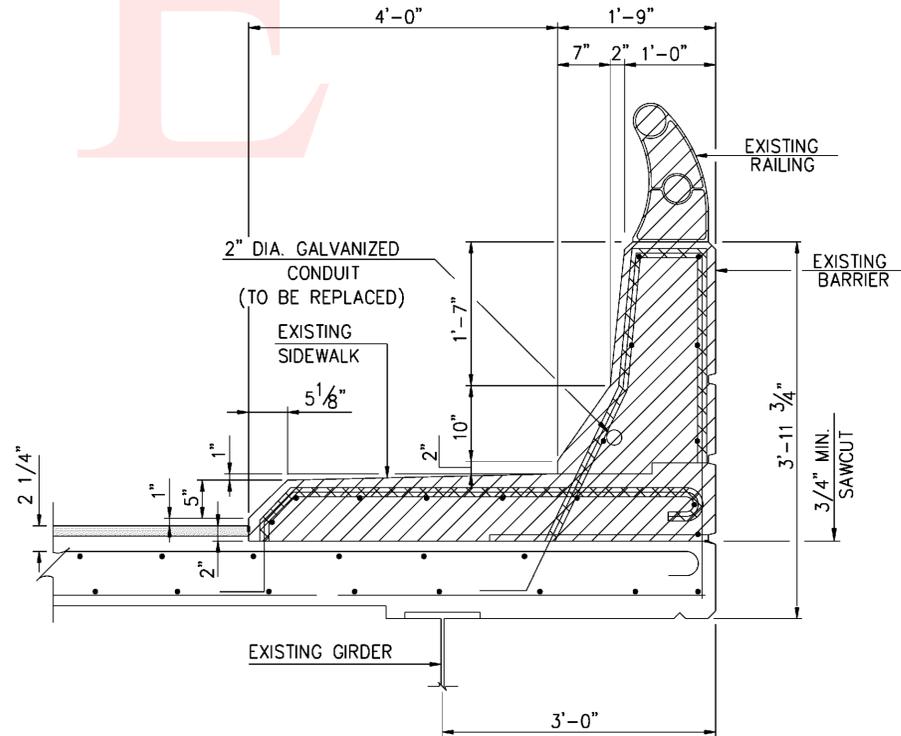
SECTION F-F
SCALE: 1" = 1'-0"



SECTION E-E
SCALE: 1" = 1'-0"



SECTION D-D
SCALE: 1" = 1'-0"

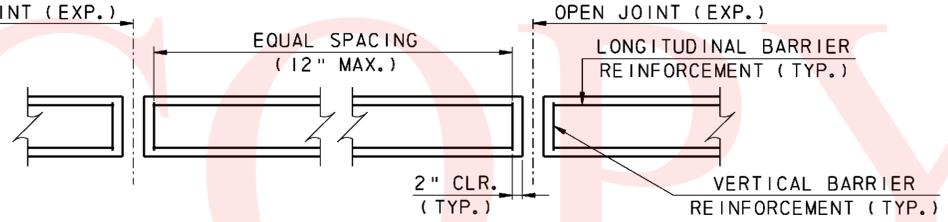
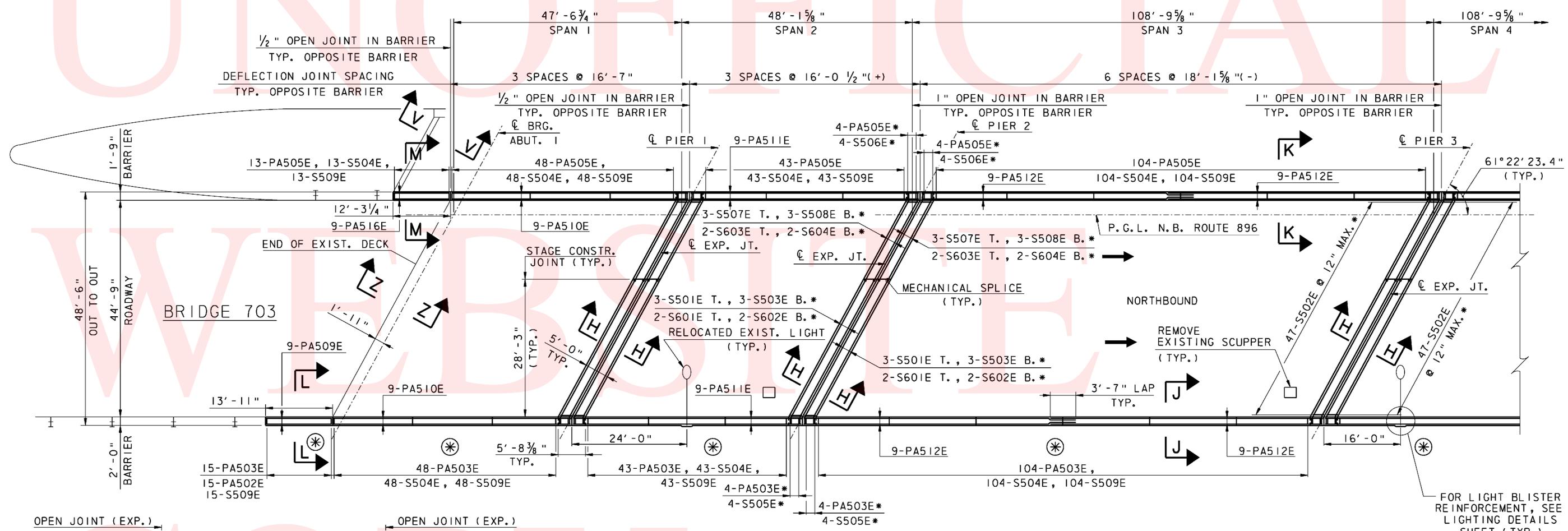
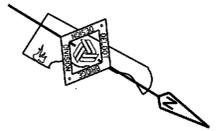


SECTION G-G
SCALE: 1" = 1'-0"

TO BE REMOVED
 7/8" CONCRETE MILLING

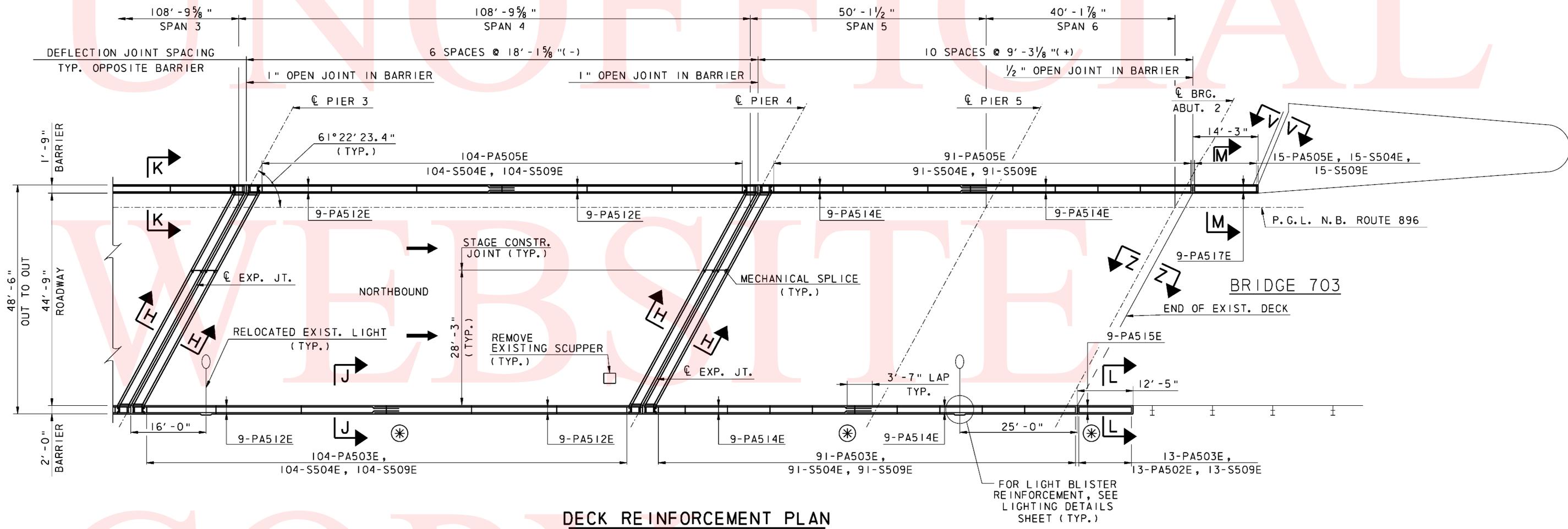
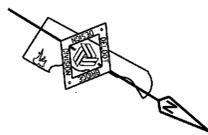
TO BE REMOVED
 7/8" CONCRETE MILLING

NOTE:
• EPOXY COAT THE EXPOSED END OF THE EXISTING REINFORCEMENT BARS THAT ARE CUT OFF.



- NOTES:**
- FOR SECTIONS H-H, J-J, K-K, L-L AND M-M, SEE EXPANSION JOINT REPLACEMENT AND BARRIER AND ARCHITECTURAL TREATMENT DETAILS SHEETS.
 - FOR SECTION V-V, SEE MISCELLANEOUS DETAILS SHEET.
 - FOR SECTION Z-Z, SEE BACKWALL REPAIR AND SCUPPER REMOVAL DETAILS SHEET.
 - FOR GUARDRAIL TO BARRIER CONNECTION DETAILS SEE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD DRAWING NO. B-5(2010).
 - FOR LIGHT POLE CONNECTION AND CONDUIT JUNCTION BOX DETAILS, SEE LIGHTING DETAILS SHEET.
- ⊗ INDICATES BARRIER TO RECEIVE ARCHITECTURAL TREATMENT, SEE BARRIER ARCHITECTURAL TREATMENT DETAILS.

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		SCALE AS NOTED	<p>INTERSTATE BRIDGE MAINTENANCE, SOUTH</p>	CONTRACT	BRIDGE NO.	1-703	<p>DECK REINFORCEMENT PLAN SPANS 1 THRU 3</p>	SHEET NO.	32
					T201207402	DESIGNED BY:	AJF		TOTAL SHTS.	89
					COUNTY	NEW CASTLE	CHECKED BY:		BSB/MAA	

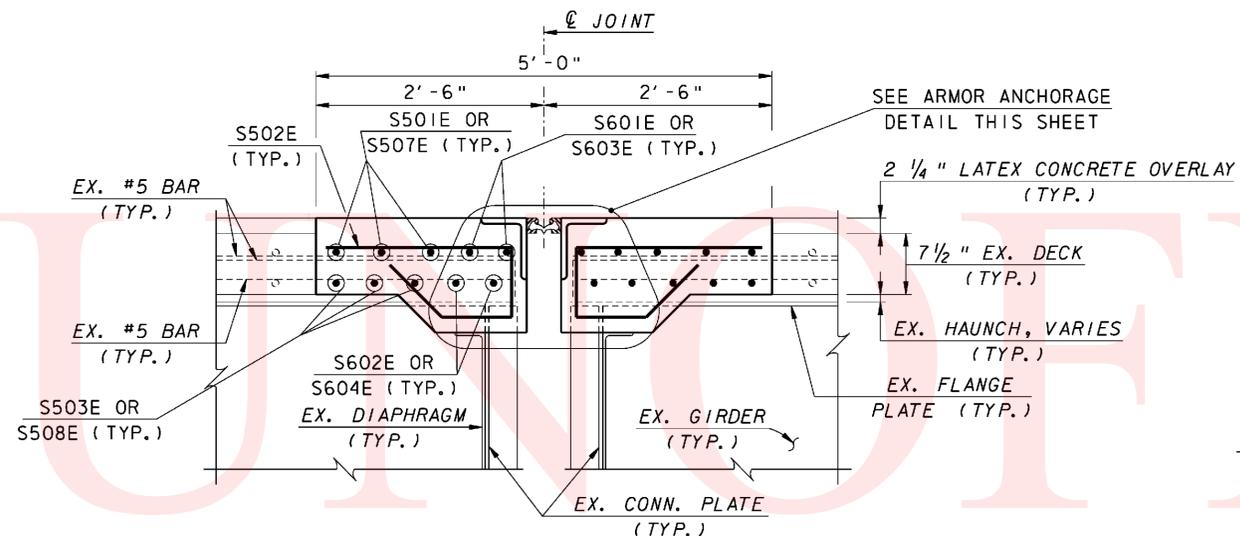


NOTES:

- FOR SECTIONS H-H, J-J, K-K, L-L AND M-M, SEE EXPANSION JOINT REPLACEMENT AND BARRIER AND ARCHITECTURAL TREATMENT DETAILS SHEETS.
- FOR SECTION V-V, SEE MISCCELLANEOUS DETAILS SHEET.
- FOR SECTION Z-Z, SEE BACKWALL REPAIR AND SCUPPER REMOVAL DETAILS SHEET.
- FOR JOINT REPAIR REINFORCEMENT AND DIMENSIONS NOT SHOWN, SEE DECK REINFORCEMENT PLAN, SPANS 1 THRU 3.
- FOR GUARDRAIL TO BARRIER CONNECTION DETAILS SEE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD DRAWING NO. B-5(2010).
- FOR BARRIER VERTICAL REINFORCEMENT SPACING, SEE DETAIL ON DECK REINFORCEMENT SPANS 1 THRU 3 SHEET.
- FOR LIGHT POLE CONNECTION AND CONDUIT JUNCTION BOX BOX DETAILS, SEE LIGHTING DETAILS SHEET.
- ⊛ INDICATES BARRIER TO RECEIVE ARCHITECTURAL TREATMENT, SEE BARRIER ARCHITECTURAL TREATMENT DETAILS.

ADDENDUMS / REVISIONS	

CONTRACT T201207402	BRIDGE NO. 1-703
COUNTY NEW CASTLE	DESIGNED BY: AJF CHECKED BY: BSB/MAA



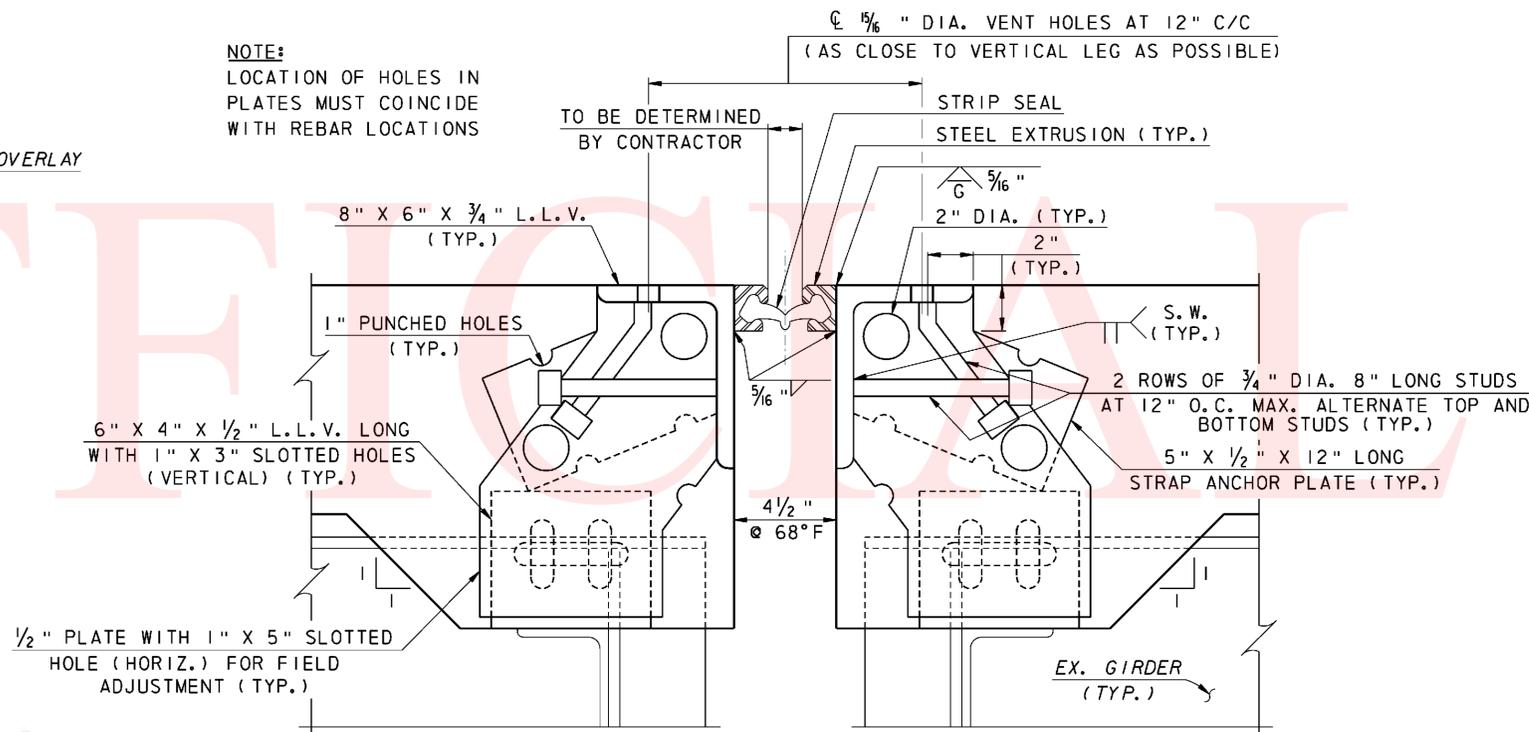
NOTE: ARMOR ANCHORAGE NOT SHOWN

SECTION H-H

SCALE: 1" = 1'-0"

- NOTES:
1. EPOXY COAT ALL REINFORCEMENT BARS.
 2. GALVANIZE ALL ARMOR & ANCHORAGE. PAINT ALL EXPOSED STEEL SURFACES.
 3. DECK JOINT TO BE POURED WITH PORTLAND CEMENT CONCRETE MASONRY, SUPERSTRUCTURE, CLASS D.

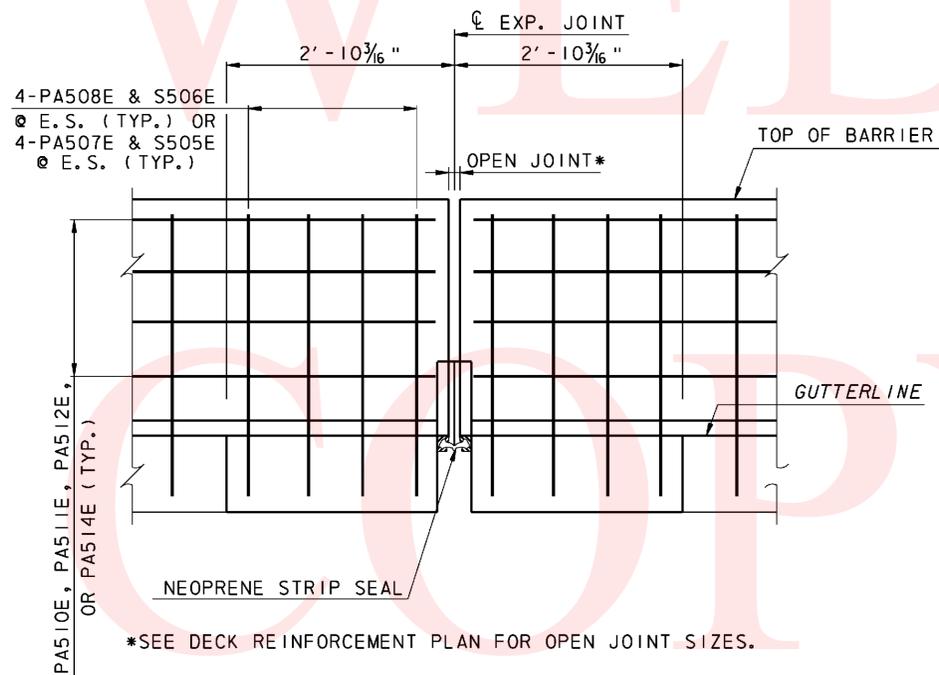
NOTE:
LOCATION OF HOLES IN PLATES MUST COINCIDE WITH REBAR LOCATIONS



NOTE: REINFORCEMENT NOT SHOWN

ARMOR ANCHORAGE DETAIL

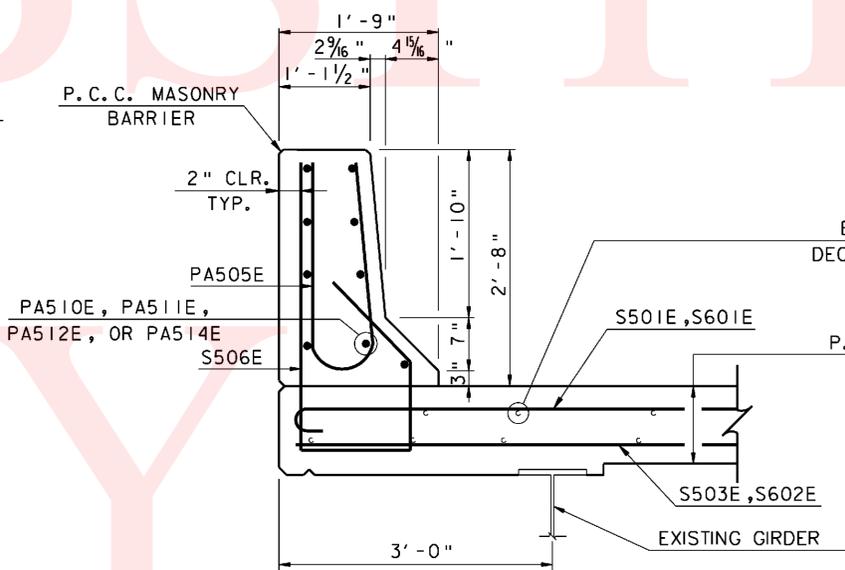
SCALE: 3" = 1'-0"



BARRIER ELEVATION

SCALE: 1" = 1'-0"

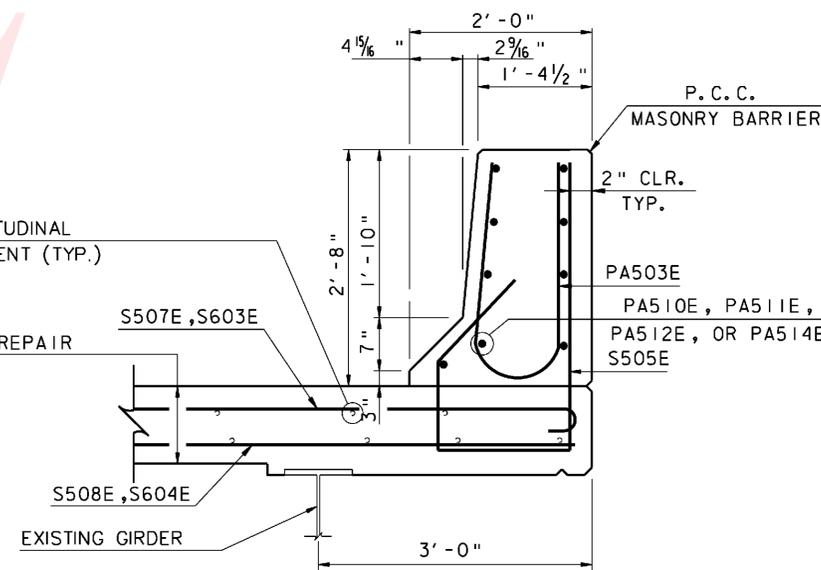
*SEE DECK REINFORCEMENT PLAN FOR OPEN JOINT SIZES.



TYPICAL LEFT BARRIER SECTION AT JOINT REPLACEMENT

SCALE: 1" = 1'-0"

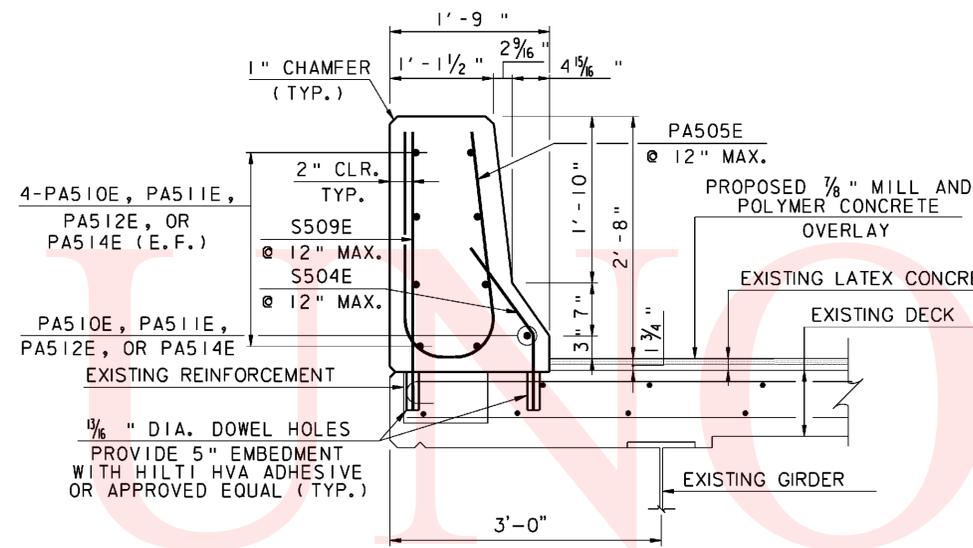
NOTE:
SEE BARRIER ELEVATION FOR LIMITS.



TYPICAL RIGHT BARRIER SECTION AT JOINT REPLACEMENT

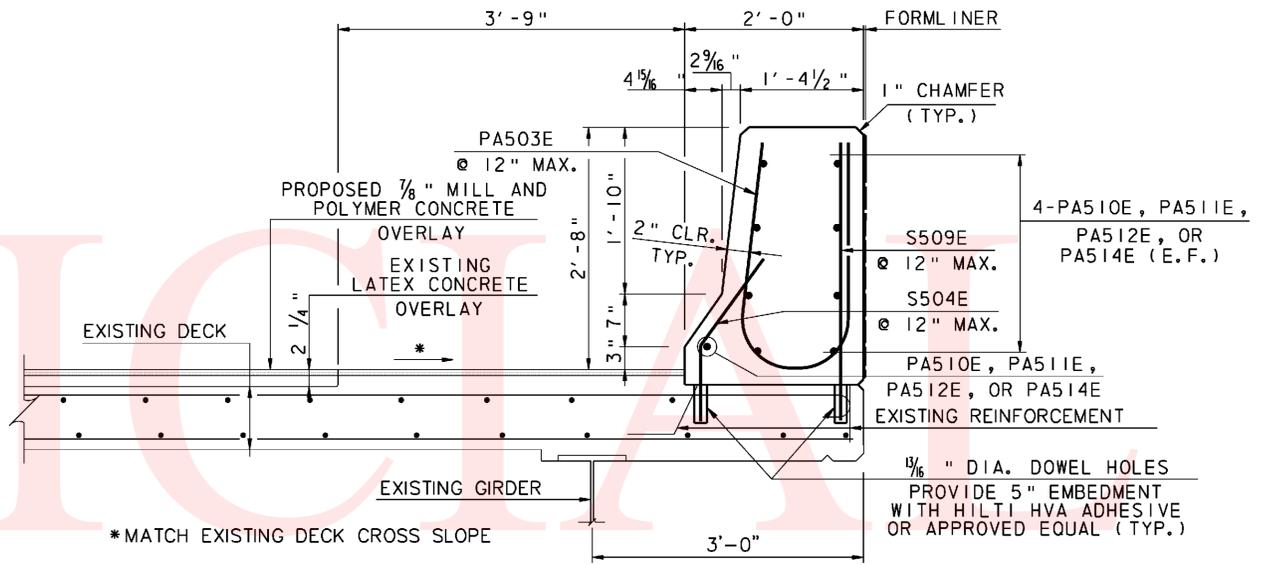
SCALE: 1" = 1'-0"

NOTE:
ARCHITECTURAL TREATMENT NOT SHOWN.
SEE BARRIER ELEVATION FOR LIMITS.

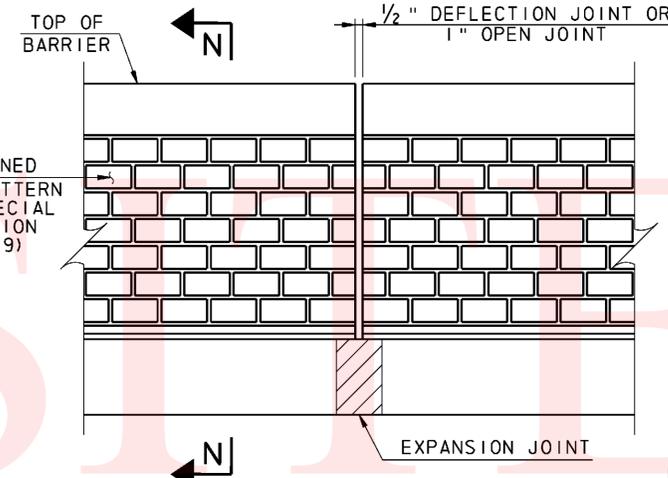
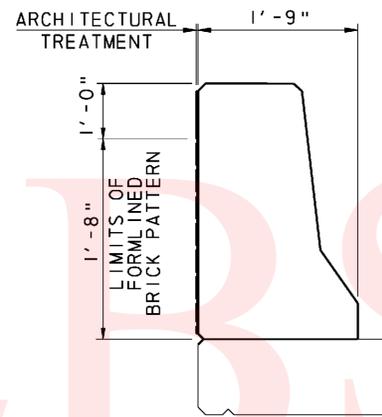


SECTION K-K
SCALE: 1" = 1'-0"

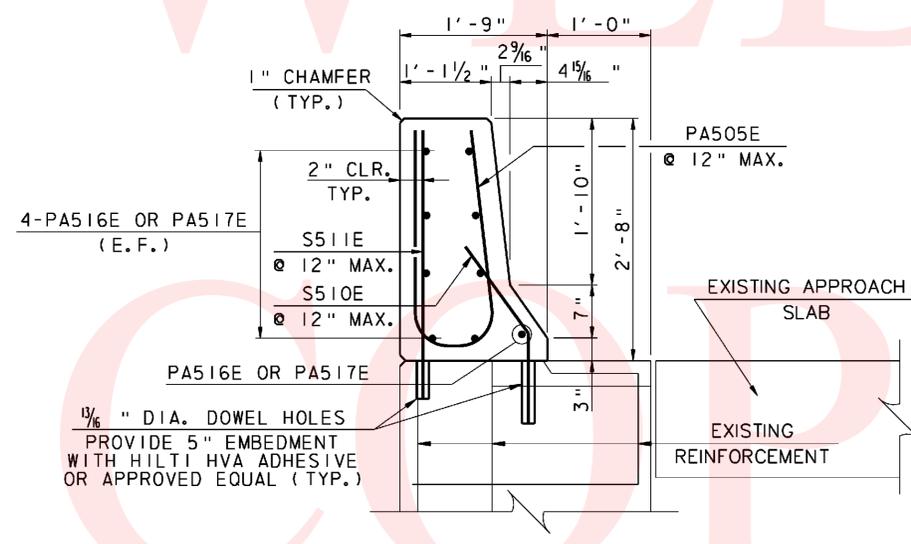
1/8" CONCRETE OVERLAY



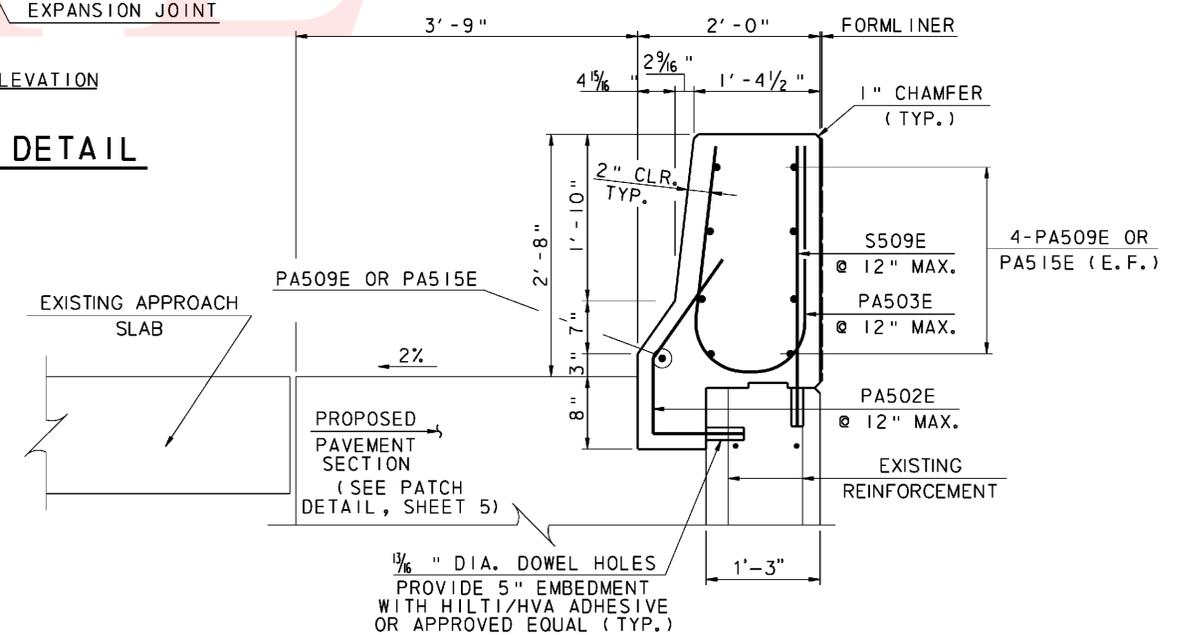
SECTION J-J
SCALE: 1" = 1'-0"



SECTION N-N
BRICK ARCHITECTURAL TREATMENT DETAIL
NOT TO SCALE

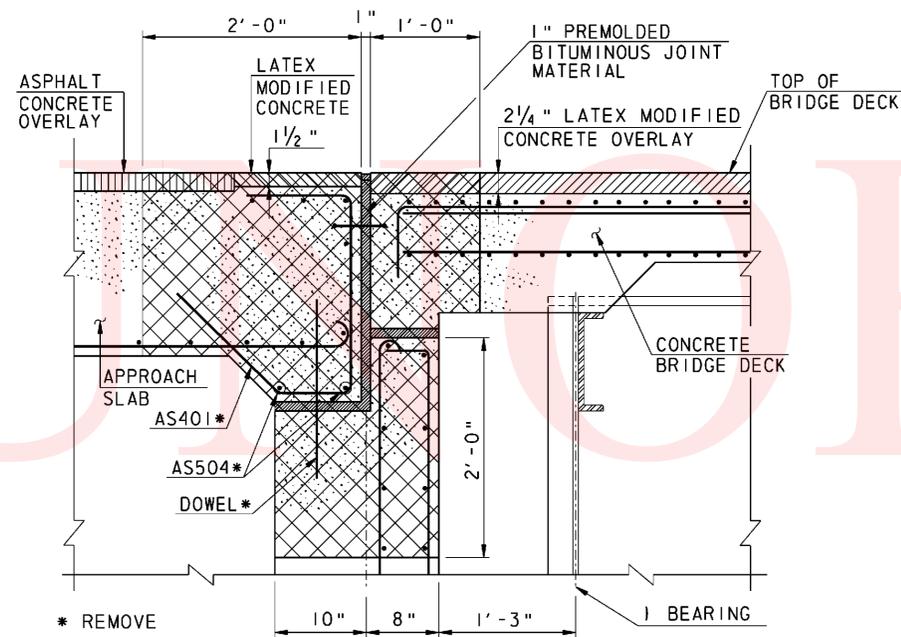


SECTION M-M
SCALE: 1" = 1'-0"

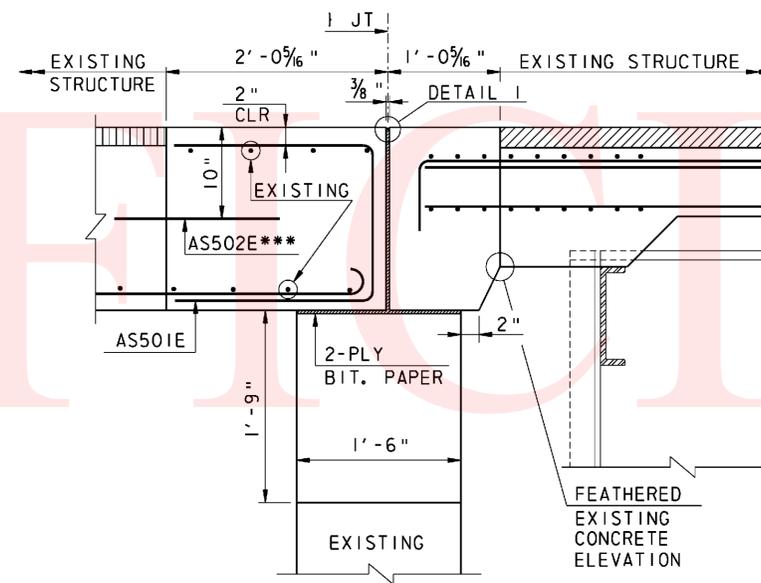


SECTION L-L
SCALE: 1" = 1'-0"

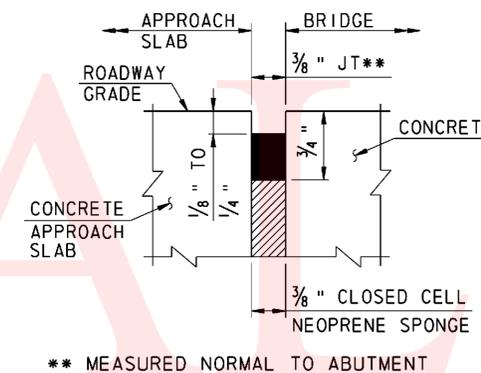
- NOTES:**
1. EPOXY COAT ALL REINFORCEMENT BARS.
 2. BARRIER SHALL BE CONSTRUCTED WITH P.C.C. MASONRY, PARAPET, CLASS A.
 3. APPLY DEPARTMENT APPROVED EPOXY BONDING COMPOUND BETWEEN EXISTING AND NEW P.C.C. MASONRY. EPOXY BONDING COMPOUND SHALL CONFORM TO AASHTO M235.



SECTION W-W
NOT TO SCALE

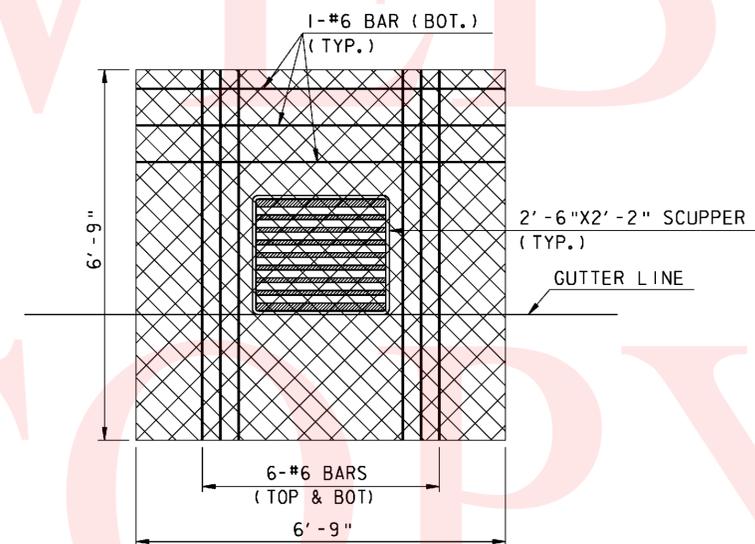


SECTION Z-Z
NOT TO SCALE



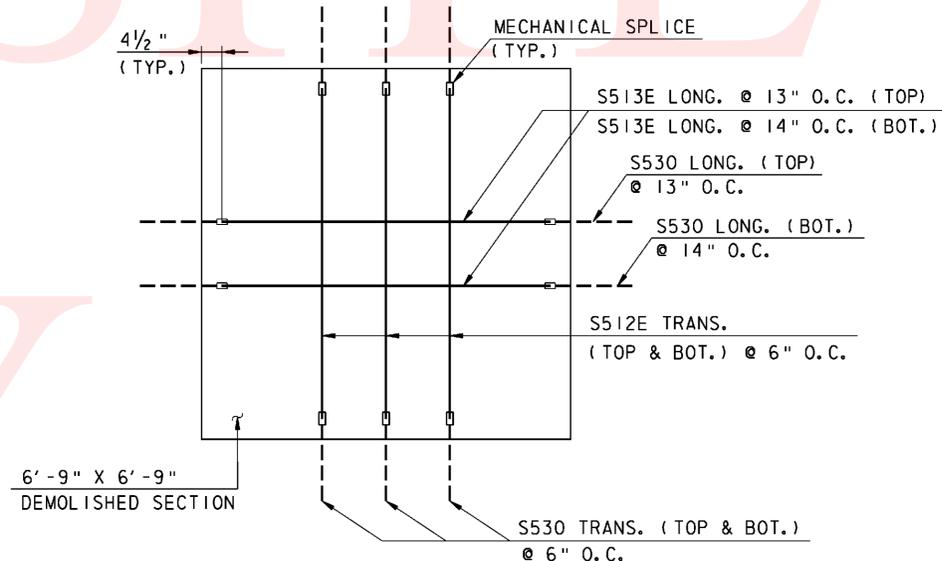
DETAIL I
NOT TO SCALE

*** TO BE ANCHORED INTO EXISTING CONCRETE WITH ADHESIVE ANCHOR. EMBED PER MANUFACTURER'S REQUIREMENTS. MINIMUM 18" PROJECTION INTO NEW CONCRETE.



NOTE: LENGTH OF EXISTING #6 BARS = 6'-0"

**EXISTING SCUPPER
LIMITS OF REMOVAL**
NOT TO SCALE



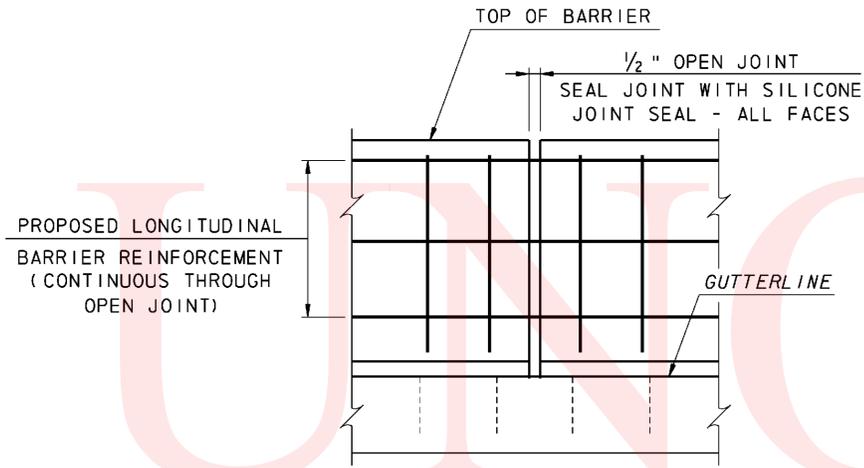
**PROPOSED DECK PLAN
(AT SCUPPER LOCATIONS)**
NOT TO SCALE

NOTES:

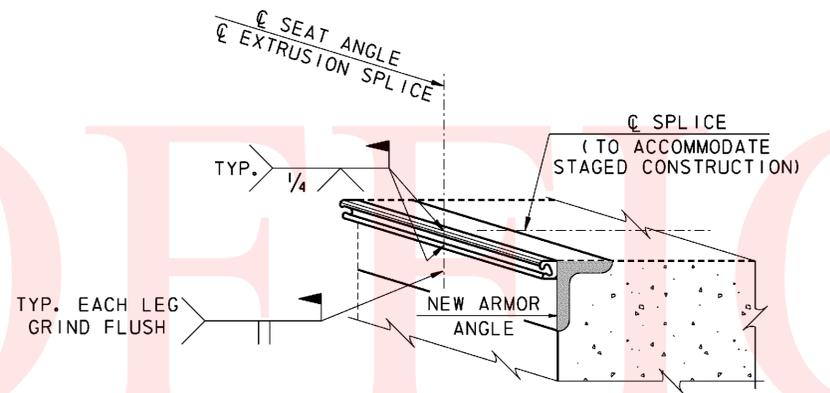
- FOR LOCATION OF SECTION W-W, SEE SHEETS 25 AND 26.
- FOR LOCATION OF SECTION Z-Z, SEE SHEETS 29 AND 30.

LEGEND:

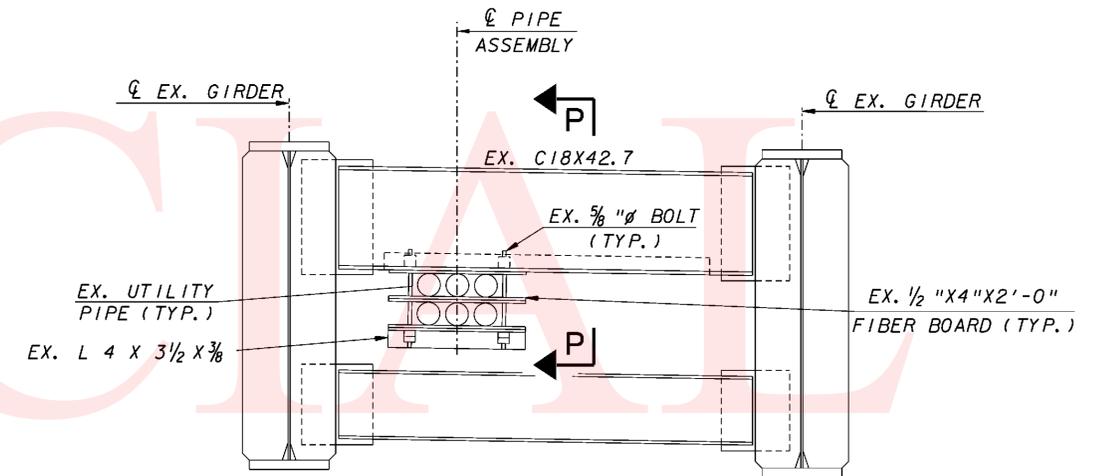
TO BE REMOVED



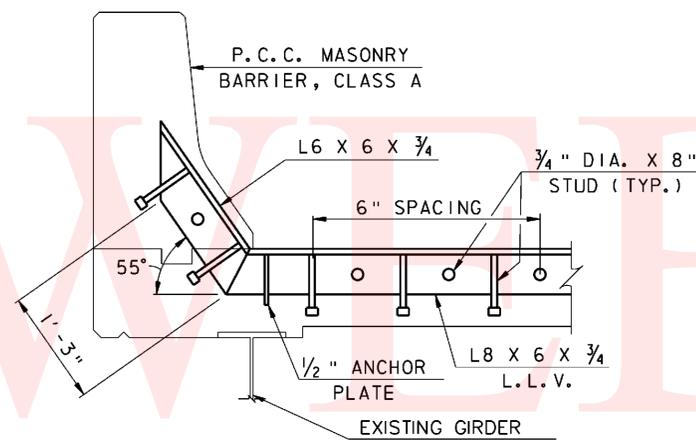
DEFLECTION JOINT DETAIL
SCALE: 1" = 1'-0"



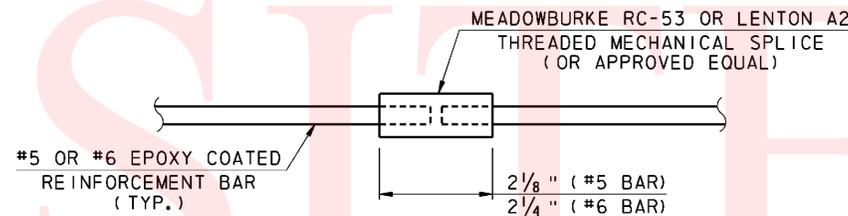
EXTRUSION JOINT SPLICE DETAIL
NOT TO SCALE
NOTE A
SECTION OF THE STEEL EXTRUSION SHALL BE WELDED AS PER MANUFACTURER'S RECOMMENDATION.



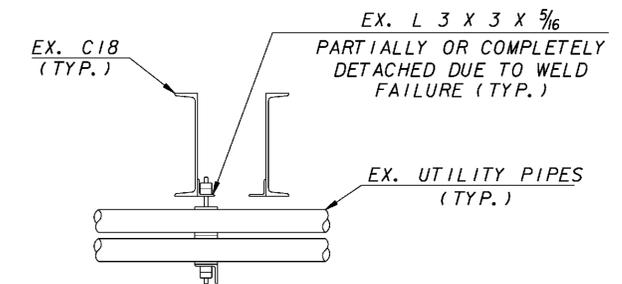
ELEVATION OF END DIAPHRAGM AND UTILITY SUPPORT
SCALE: 3/4" = 1'-0"
LOCATIONS NOTED: PIER 2 AND BAY 4
PIER 4 AND BAY 4



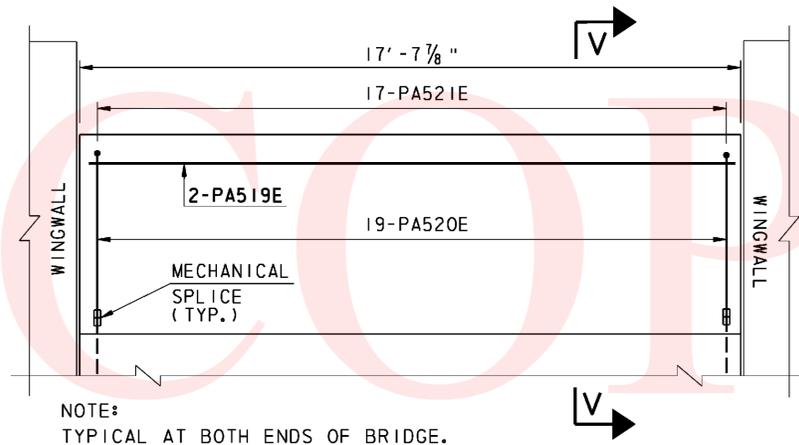
JOINT ARMOR DETAIL AT BARRIER
SCALE: 1" = 1'-0"



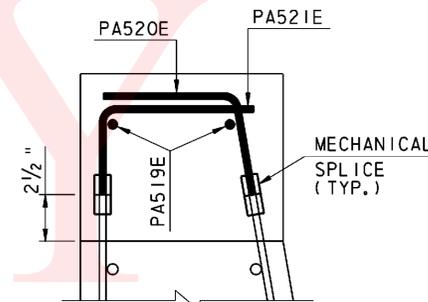
REINFORCEMENT BAR SPLICE DETAIL
NOT TO SCALE
NOTE:
MECHANICAL SPLICE INCIDENTAL TO ITEM 604000.



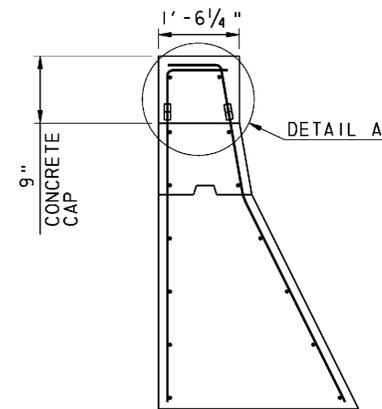
SECTION P-P
SCALE: 3/4" = 1'-0"



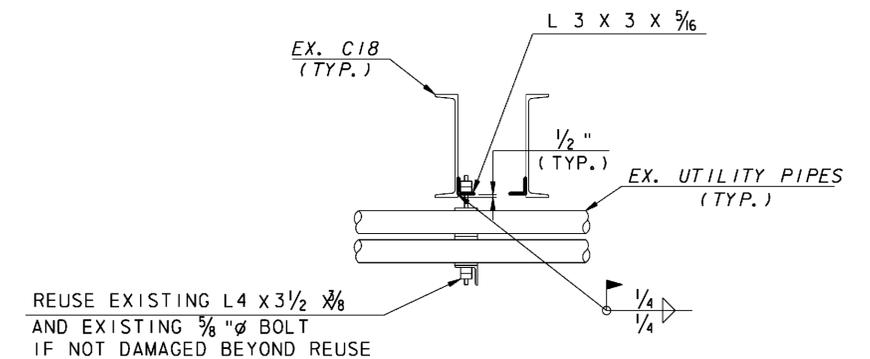
MEDIAN WALL ELEVATION
NOT TO SCALE



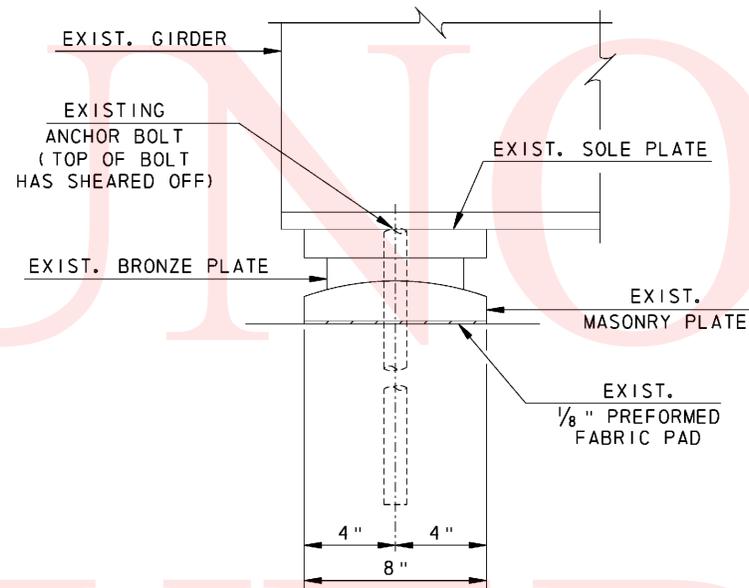
DETAIL A
NOT TO SCALE



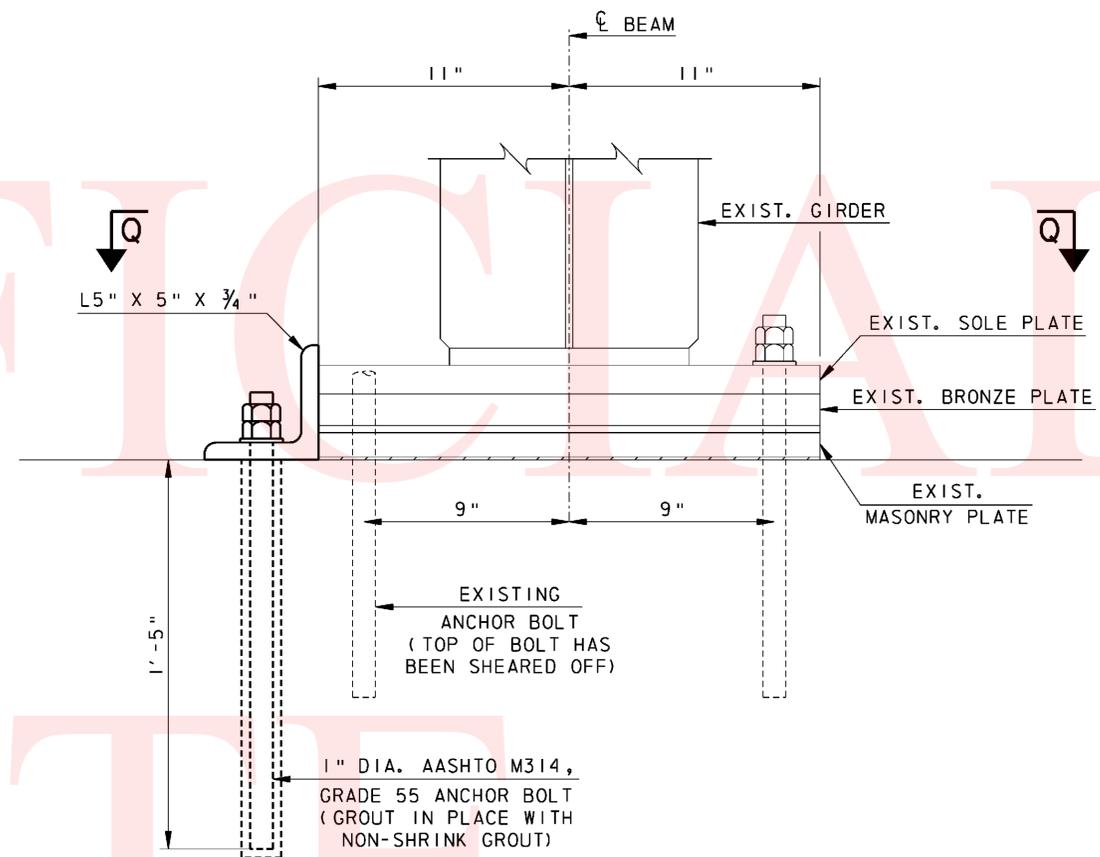
SECTION V-V
NOT TO SCALE



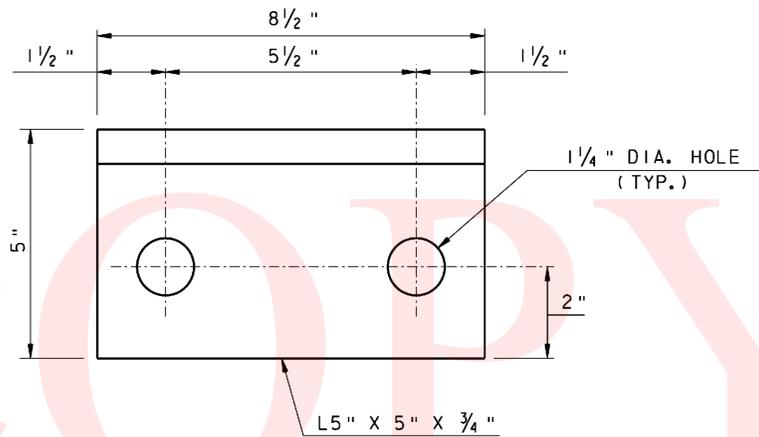
UTILITY SUPPORT REPAIR DETAIL
SCALE: 3/4" = 1'-0"
REUSE EXISTING L4 X 3 1/2 X 3/8 AND EXISTING 5/8\"/>



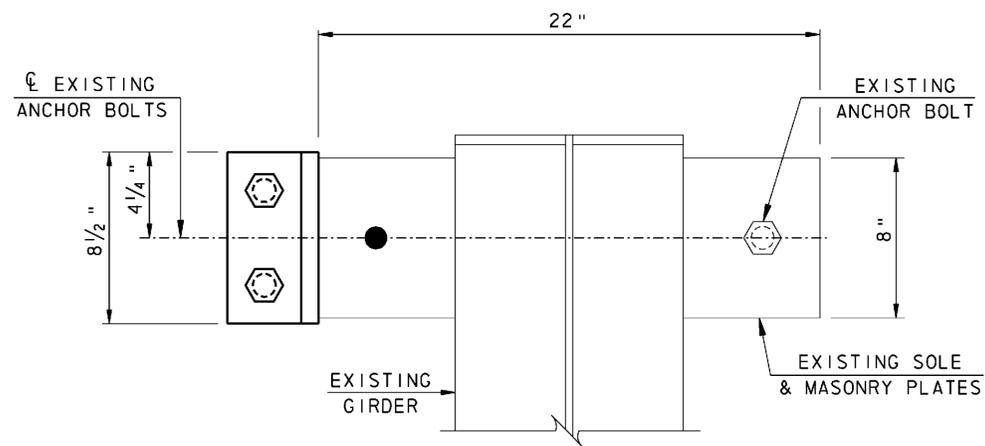
ANCHOR BOLT EXISTING
NOT TO SCALE



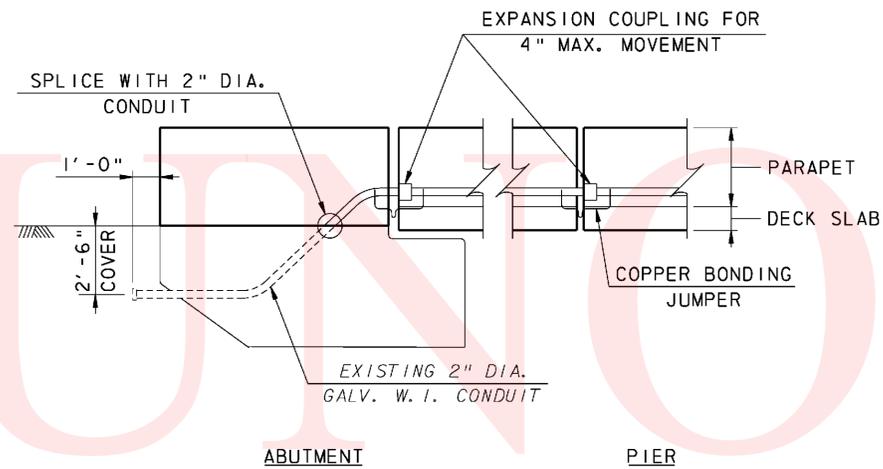
ANCHOR BOLT REPAIR
NOT TO SCALE



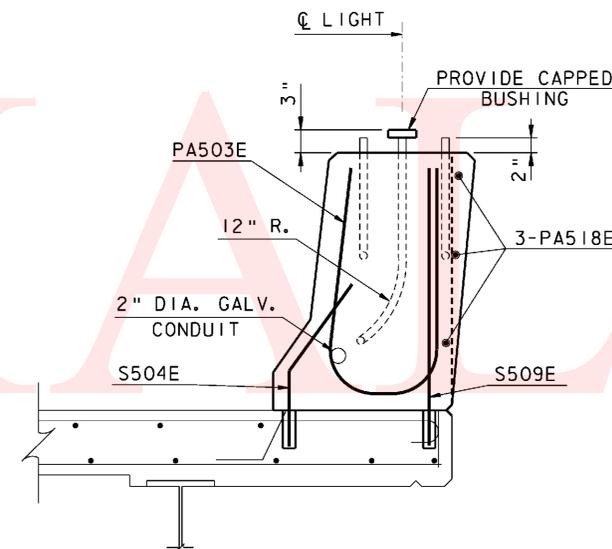
ANGLE DETAIL
NOT TO SCALE



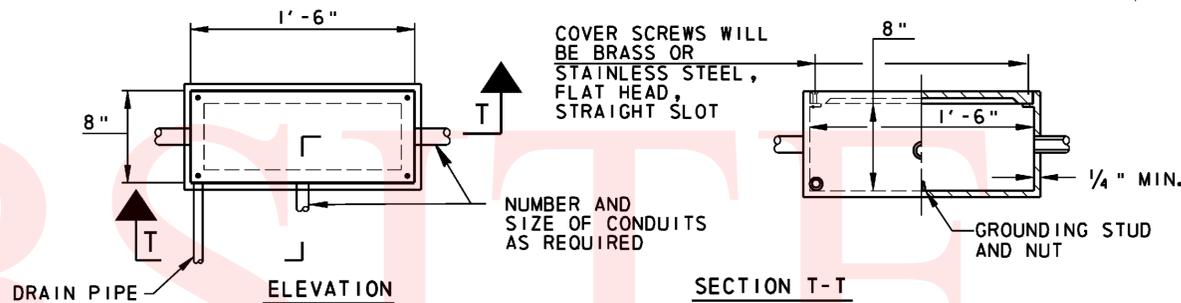
SECTION Q-Q
NOT TO SCALE



EXPANSION JOINT DETAILS FOR CONDUITS
NOT TO SCALE

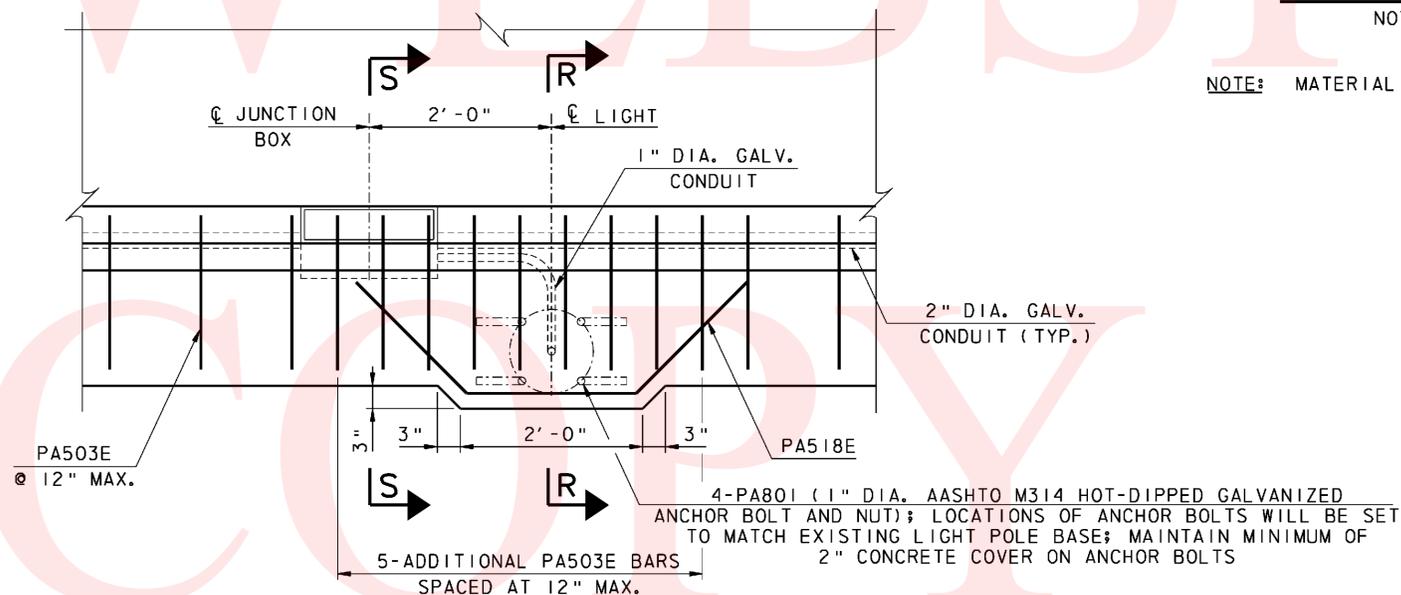


SECTION R-R
SCALE: 1" = 1'-0"

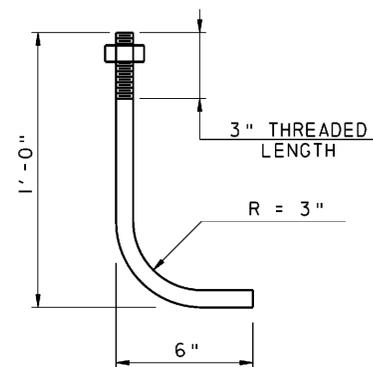


JUNCTION BOX DETAIL
NOT TO SCALE

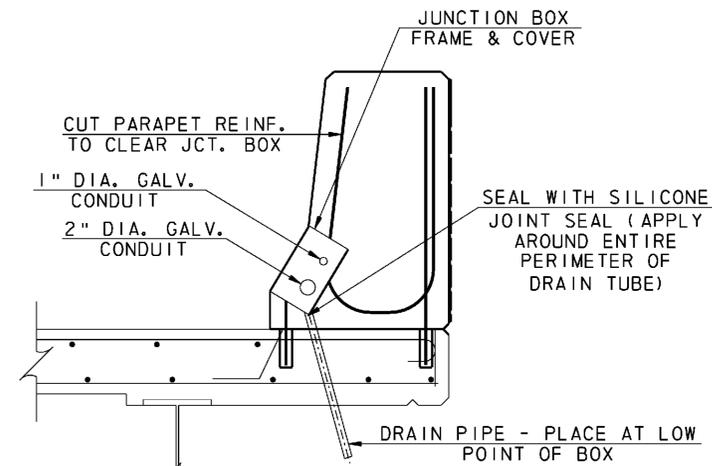
NOTE: MATERIAL SHALL BE GALVANIZED STEEL.



LIGHT BLISTER DETAIL
SCALE: 1" = 1'-0"



ANCHOR BOLT DETAIL
NOT TO SCALE

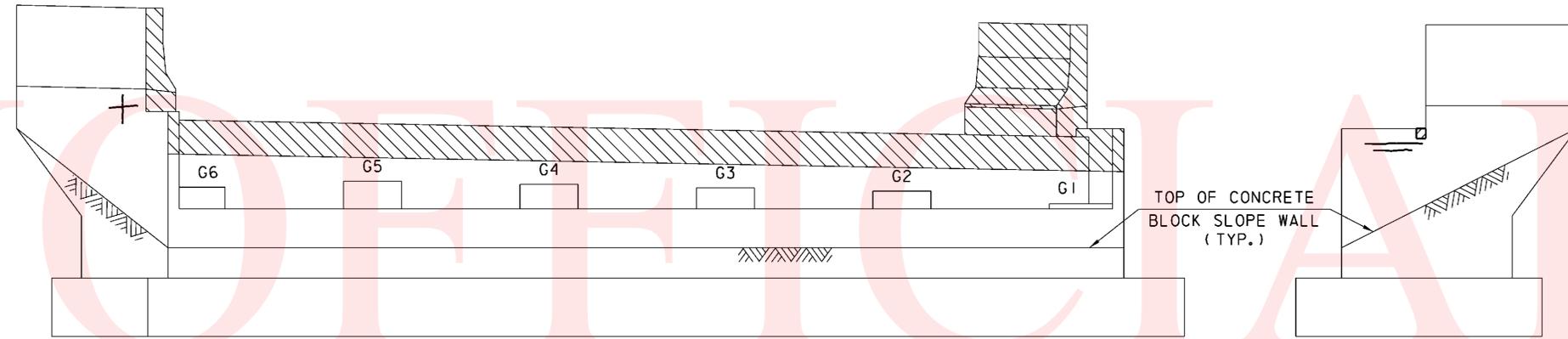


SECTION S-S
SCALE: 1" = 1'-0"

BRIDGE 1-703A NOTES

1. INSTALL ACCESS AND CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING ONTO I-95 LANES AND SHOULDERS DURING REPAIR ACTIVITIES. ACCESS AND CONTAINMENT SYSTEM MUST BE APPROVED BY DELDOT PRIOR TO COMMENCEMENT OF WORK. PAYMENT SHALL BE INCIDENTAL TO ITEM 602612 (ACCESS AND CONTAINMENT FOR BRIDGE REPAIRS). BIDDERS SHALL ASSUME THAT ALL FACES OF ALL PIERS FOR THIS BRIDGE MUST BE ACCESSED AND CONTAINED FOR SPALL, CRACK AND DELAMINATION REPAIRS.
2. MILL CONCRETE DECK (ITEM 760001) AS SHOWN ON THE PLANS. SOUND THE CONCRETE DECK WITH A DELDOT INSPECTOR PRESENT AND REPAIR ANY DELAMINATED OR DETERIORATED CONCRETE UNDER THE APPROPRIATE REPAIR ITEM.
3. REPLACE THE EXPANSION JOINTS AS SHOWN IN THE EXPANSION JOINT REPLACEMENT DETAILS PROVIDED. REPAIRS ARE REQUIRED FOR THE FULL DECK WIDTH AT PIERS 1, 2, 4 & 5. PAYMENT SHALL BE INCIDENTAL TO ITEMS 602013, 604000 & 605511. REMOVAL OF EXISTING DECK AND BARRIER PORTLAND CEMENT CONCRETE AND THE EXISTING JOINTS SHALL BE INCIDENTAL TO ITEM 602580.
4. REMOVE THE EXISTING STRUCTURE MOUNTED LIGHTING FIXTURE AND POLE WITHOUT DAMAGING. STORE THE EXISTING LIGHTING FIXTURE AND POLE IN A SAFE LOCATION WHERE IT CAN BE PROTECTED FROM DAMAGE. UPON COMPLETION OF THE BARRIER RECONSTRUCTION, REATTACH THE EXISTING LIGHTING FIXTURE AND POLES AT THE LOCATIONS INDICATED ON THE PLANS. IF THE EXISTING LIGHT FIXTURE AND POLES GET DAMAGED, THE CONTRACTOR WILL REPLACE WITH NEW AT NO ADDITIONAL COST TO THE DEPARTMENT. THE POLE SHALL BE REATTACHED PER THE DETAILS PROVIDED IN THE PLANS. PAYMENT SHALL BE UNDER ITEM 746509. CONDUIT AND JUNCTION BOX INSTALLATION ASSOCIATED WITH THE LIGHT FIXTURE AND POLE INSTALLATION SHALL BE UNDER ITEMS 745500, 745506, 745507 AND 746596.
5. REPLACE THE BARRIERS AS SHOWN IN THE BARRIER REPLACEMENT DETAILS PROVIDED. PAYMENT SHALL BE UNDER ITEMS 602013, 602017 & 604000. REMOVAL OF EXISTING PORTLAND CEMENT CONCRETE MATERIAL & ALUMINUM RAILING, RAILING POSTS, AND RAILING CONNECTORS AND ANCHORAGE SHALL BE UNDER ITEM 602580. INSTALLATION OF ANCHORS SHALL BE UNDER ITEM 602579.
6. APPLY WATER BASED ACRYLIC CONCRETE SEALANT TO ALL FACES OF THE BARRIERS. PAYMENT SHALL BE UNDER ITEM 602518.
7. PLACE POLYMER CONCRETE OVERLAY (ITEMS 602757) AS SHOWN ON THE PLANS.
8. REPLACE EXISTING DEBONDED POURABLE SEALS BETWEEN APPROACH SLABS AND BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 605692.
9. REPAIR MISSING ANCHOR BOLTS AS SHOWN IN ANCHOR BOLT REPAIR DETAILS PROVIDED. AVOID MAIN REINFORCING BARS WHEN DRILLING ANCHOR BOLT HOLES. SHIFT KEEPER ANGLE ALONG GIRDER AS NECESSARY TO AVOID REINFORCEMENT. PAYMENT SHALL BE UNDER ITEM 605655.
10. CLEAN, PAINT AND APPLY GREASE TO BRIDGE BEARINGS. FOR BEARINGS WITH VISIBLE CORROSION, REMOVE EXISTING PAINT, AND PREPARE SURFACE PRIOR TO APPLICATION OF NEW PAINT COATINGS. PAYMENT SHALL BE INCIDENTAL TO ITEMS 605533 AND 605616. APPLY GREASE TO NEWLY PAINTED BEARINGS. SPECIFICATIONS FOR GREASE SHALL COMPLY WITH PROJECT NOTES FOR THIS CONTRACT. APPLICATION OF GREASE FOR REPAINTED BEARINGS SHALL BE INCIDENTAL TO ITEM 605616. PRIOR TO APPLICATION OF GREASE, PREPARE BEARING SURFACE FOR APPLICATION AS REQUIRED FOR PROPER ADHERENCE OF THE GREASE, AND AS APPROVED BY THE DELDOT INSPECTOR. USE LOW PRESSURE WATER BLASTING TO REMOVE EXISTING DEBRIS. HAND WIPE TO REMOVE EXISTING DEBRIS IN LOCATIONS APPROVED BY THE DELDOT INSPECTOR. AVOID DAMAGE TO EXISTING PAINT COATING BY USING LOW PRESSURE WATER BLASTING SUFFICIENT TO REMOVE EXISTING DEBRIS AND CONTAMINANTS. GREASE SHALL BE APPLIED TO ALL BEARINGS ON BRIDGE. ALL DEBRIS ON PIER CAP AND ABUTMENT BEARING SEATS SHALL BE REMOVED. REMOVAL OF DEBRIS IS INCIDENTAL TO ITEM 605533.
11. REPAIR SPALLS ON UNDERSIDE (BOTTOM) OF BRIDGE DECK. PERFORM SOUNDING FOR CONCRETE DELAMINATION AROUND VISIBLE SPALLS, CRACKS AND DETERIORATION, WITH DELDOT INSPECTOR PRESENT. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT SHALL BE AS DESCRIBED IN PROJECT NOTES.
12. FULLY CLEAN AND PAINT ALL STEEL STRUCTURAL COMPONENTS USING ITEMS 605533 AND 605616.
13. REPAIR SPALLS AND DELAMINATIONS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. PERFORM SOUNDING FOR DELAMINATIONS AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED AND DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
14. REPAIR CRACKS IN CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEM 602626 OR 602611, AS APPROVED BY DELDOT INSPECTOR.
15. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE ABUTMENTS, BACKWALLS AND WINGWALLS. SEE GENERAL NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
16. REPAIR SPALLS ON CONCRETE PIERS AND PIER CAPS. PERFORM SOUNDING FOR DELAMINATIONS AROUND VISIBLE CRACKS, SPALLS AND DETERIORATION. SOUNDING IS INCIDENTAL TO THE APPROPRIATE SPALL REPAIR ITEM. REMOVE AND REPLACE DELAMINATED OR DETERIORATED CONCRETE. PAYMENT FOR CONCRETE SPALL AND DELAMINATION REPAIR SHALL BE AS DESCRIBED IN THE PROJECT NOTES FOR SPALL REPAIR.
17. REPAIR CRACKS ON PIERS AND PIER CAPS. CRACK REPAIR SHALL BE PERFORMED UNDER PAY ITEMS 602611 AND 602626, AS APPROVED BY DELDOT INSPECTOR.
18. APPLY SILICONE ACRYLIC CONCRETE SEALANT TO ALL EXPOSED VERTICAL AND HORIZONTAL SURFACES OF CONCRETE PIER. SEE PROJECT NOTES FOR ADDITIONAL CLARIFICATION OF SEALANT COATING REQUIREMENTS. PAYMENT SHALL BE UNDER ITEM 602646. ENSURE PROPER SURFACE PREPARATION PRIOR TO APPLICATION OF SEALANT, IN ACCORDANCE WITH SPECIAL PROVISION REQUIREMENTS.
19. CLEAN AND FLUSH SCUPPER DRAINS ON BRIDGE DECK. PAYMENT SHALL BE UNDER ITEM 605582.
20. PLACE REINFORCED SILT FENCE AT TOE OF EMBANKMENT. REPLACE DETERIORATED CONCRETE BLOCK SLOPE PAVING ON BRIDGE EMBANKMENT. REMOVAL AND DISPOSAL OF EXISTING CONCRETE SLOPE PAVING SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 712526. NEW SLOPE PAVING SHALL MATCH EXISTING SLOPE PAVING IN SIZE, AND SHALL BE PAINTED TO MATCH EXISTING. REPAIR MISSING AND DETERIORATED MORTAR JOINTS IN EXISTING CONCRETE BLOCK SLOPE PAVING, PAYMENT SHALL BE UNDER ITEM 602578.
21. APPLY SEALANT AT BASE OF ABUTMENTS & WINGWALLS TO PREVENT STORMWATER FROM PENETRATING BENEATH FOUNDATIONS. PAYMENT SHALL BE UNDER ITEM 406507. ALL VEGETATION, PLANTS AND SMALL TREES GROWING IN VICINITY OF BASE OF ABUTMENT & WINGWALL JOINT SHALL BE REMOVED PRIOR TO APPLYING SEALANT, AS WELL AS EXISTING DETERIORATED AND DEBONDED SEALANT AT JOINT (INCIDENTAL TO PAY ITEM 406507).
22. REGRADE EXISTING GROUND AROUND PIERS 1 AND 5 TO DIRECT SURFACE RUNOFF AWAY FROM BASE OF PIERS. CREATE SWALES AS NECESSARY TO DIRECT RUNOFF INTO EXISTING INLETS AND DITCHES. PLACE SILT FENCE AROUND DISTURBED AREAS. SEED AND MULCH DISTURBED AREAS. PAYMENT SHALL BE UNDER ITEMS 202001, 251001, 734013 AND 732002.
23. THE DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONING SHOWN PRIOR TO CALCULATING QUANTITIES AND ORDERING MATERIALS. REINFORCEMENT BAR LENGTHS SHALL BE VERIFIED IN THE FIELD PRIOR TO ORDERING.
24. CLEAN ALL CATCH BASINS WITHIN WORK LIMITS, COST TO BE INCIDENTAL TO ITEM 201000, CLEARING AND GRUBBING.

 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		NOT TO SCALE	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	1-703A	SITE NOTES	SHEET NO.
	T201207402	DESIGNED BY: AJF			41				
	NEW CASTLE	CHECKED BY: BSB/MAA			TOTAL SHTS.				
					89				

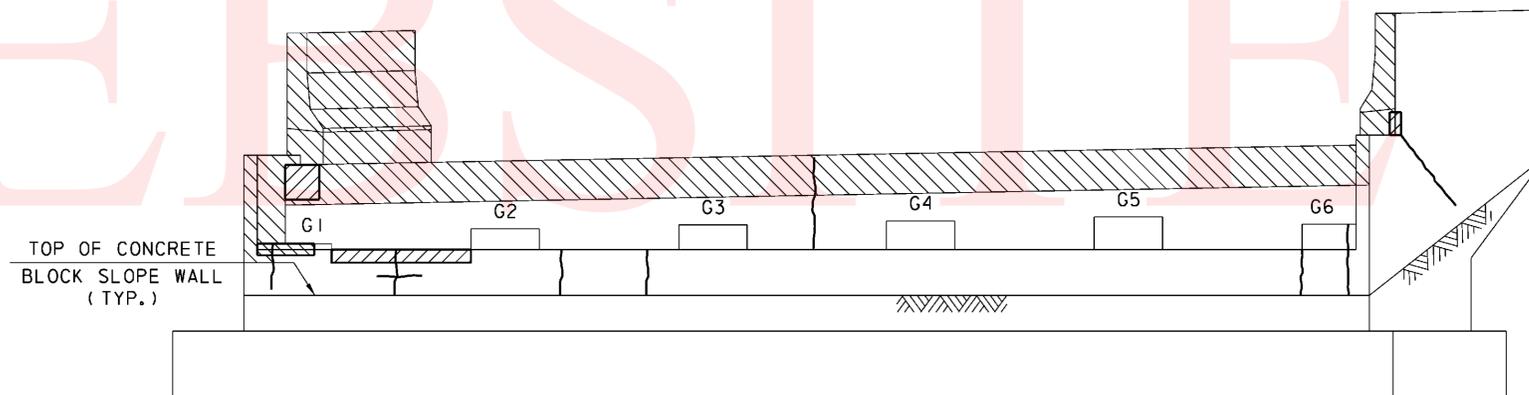


BRIDGE 703A - ABUT. 1
CONCRETE REPAIR

(LOOKING SOUTH)
NOT TO SCALE

NEAR WEST WING
CONCRETE REPAIR

NOT TO SCALE



BRIDGE 703A - ABUT. 2
CONCRETE REPAIR

(LOOKING NORTH)
NOT TO SCALE

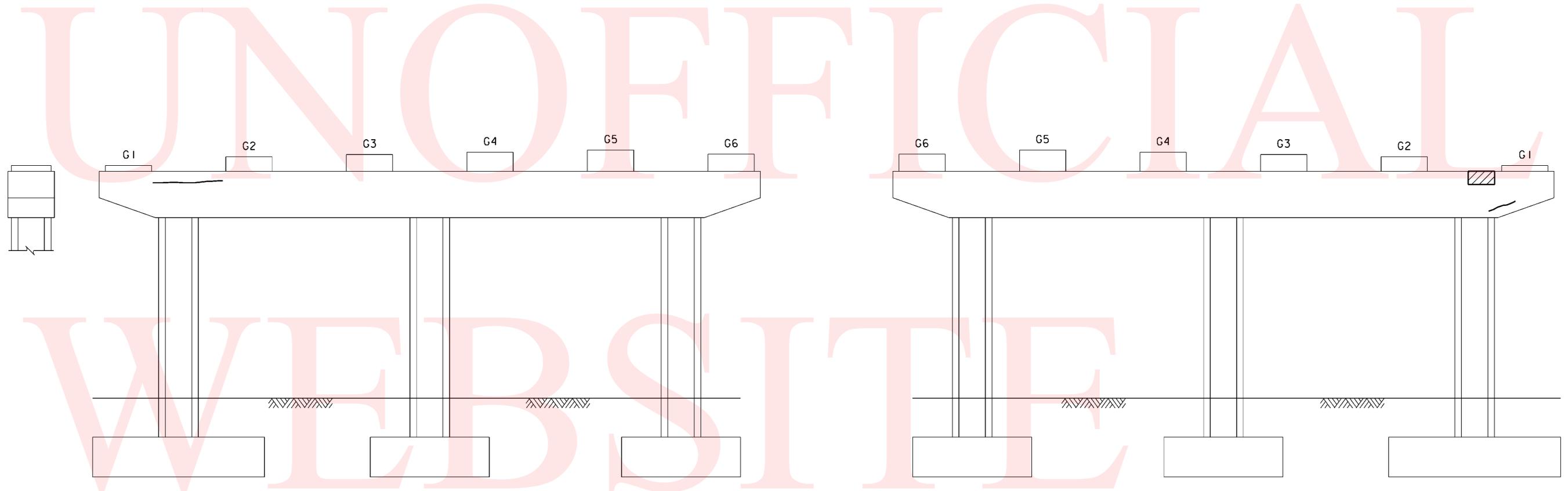
NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

ABUT. CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR
-  TO BE REMOVED



BRIDGE 703A - PIER 1
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

BRIDGE 703A - PIER 1
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

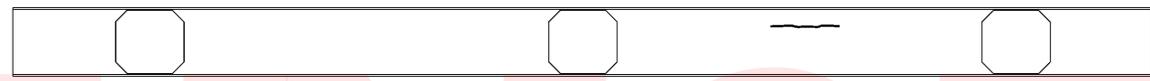
ADDENDUMS / REVISIONS	

NOT TO SCALE

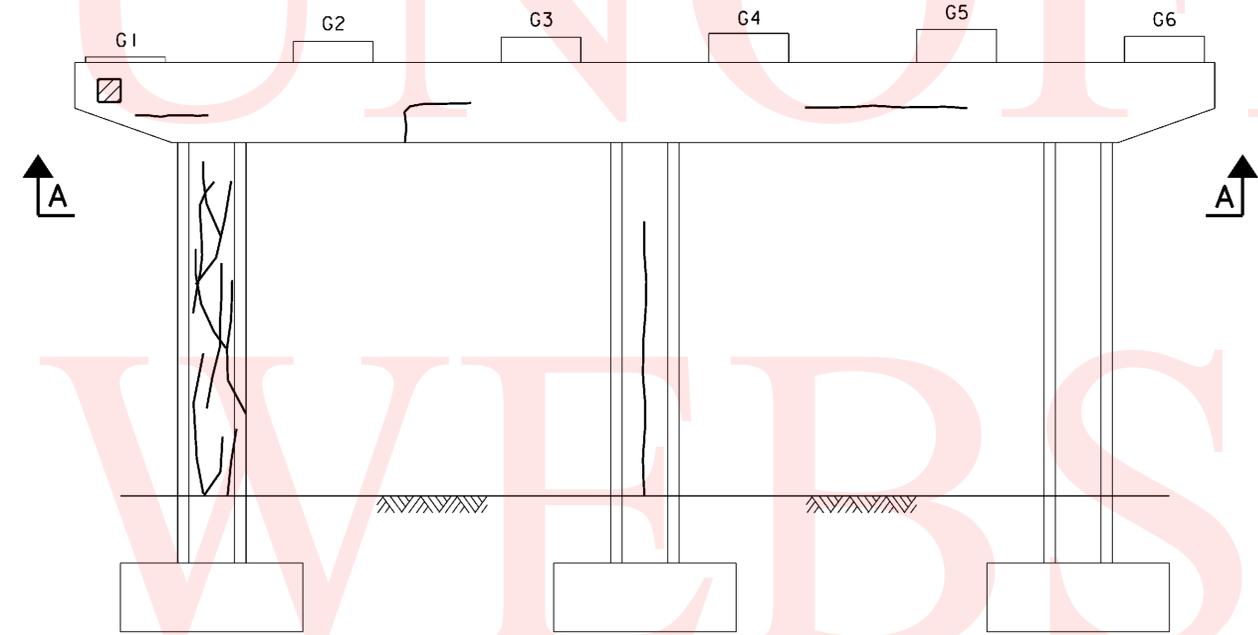
**INTERSTATE BRIDGE
 MAINTENANCE,
 SOUTH**

CONTRACT T201207402	BRIDGE NO. 1-703A
COUNTY NEW CASTLE	DESIGNED BY: AJF
	CHECKED BY: BSB/MAA

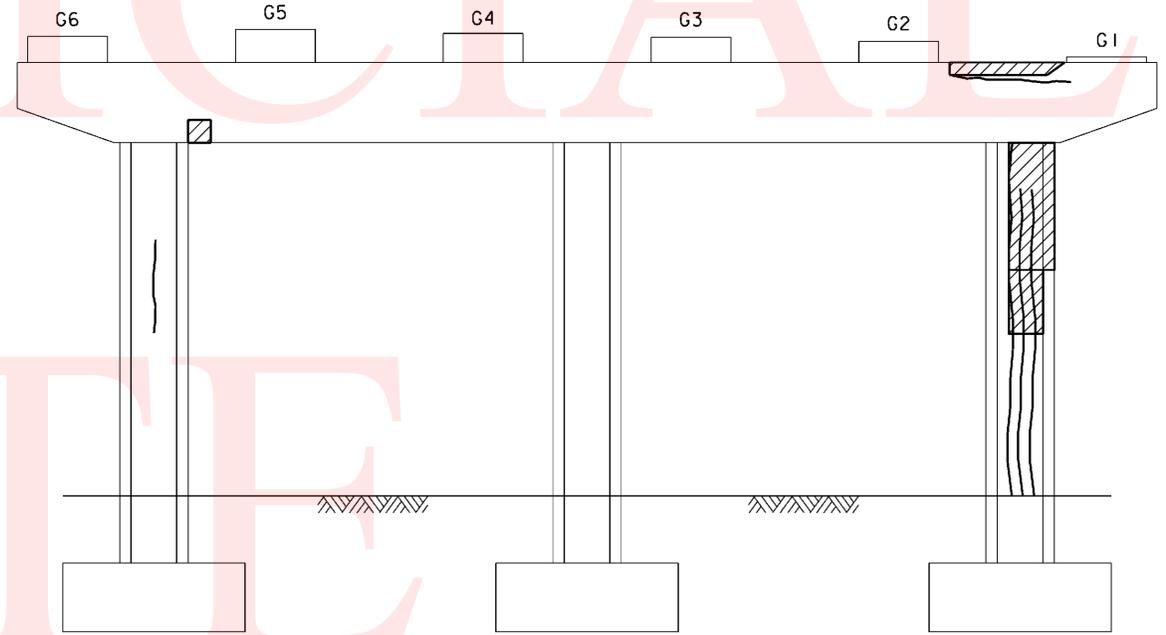
PIER 1 CONCRETE REPAIRS



SECTION A-A - UNDERSIDE OF CAP
NOT TO SCALE



BRIDGE 703A - PIER 2
CONCRETE REPAIR (SOUTH ELEVATION)
NOT TO SCALE



BRIDGE 703A - PIER 2
CONCRETE REPAIR (NORTH ELEVATION)
NOT TO SCALE

NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

ADDENDUMS / REVISIONS	

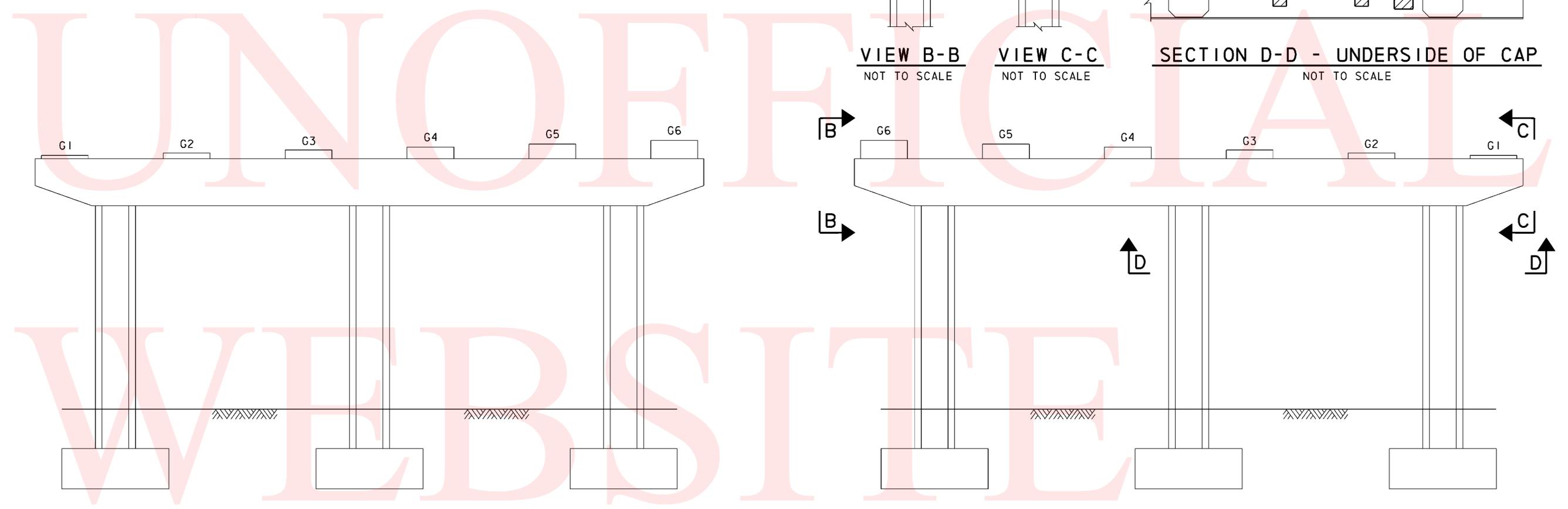
NOT TO SCALE

INTERSTATE BRIDGE
MAINTENANCE,
SOUTH

CONTRACT	BRIDGE NO.	1-703A
T201207402	DESIGNED BY: AJF	
COUNTY	CHECKED BY: BSB/MAA	
NEW CASTLE		

PIER 2 CONCRETE REPAIRS

SHEET NO.	44
TOTAL SHTS.	89



BRIDGE 703A - PIER 3
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE

BRIDGE 703A - PIER 3
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

NOTE:

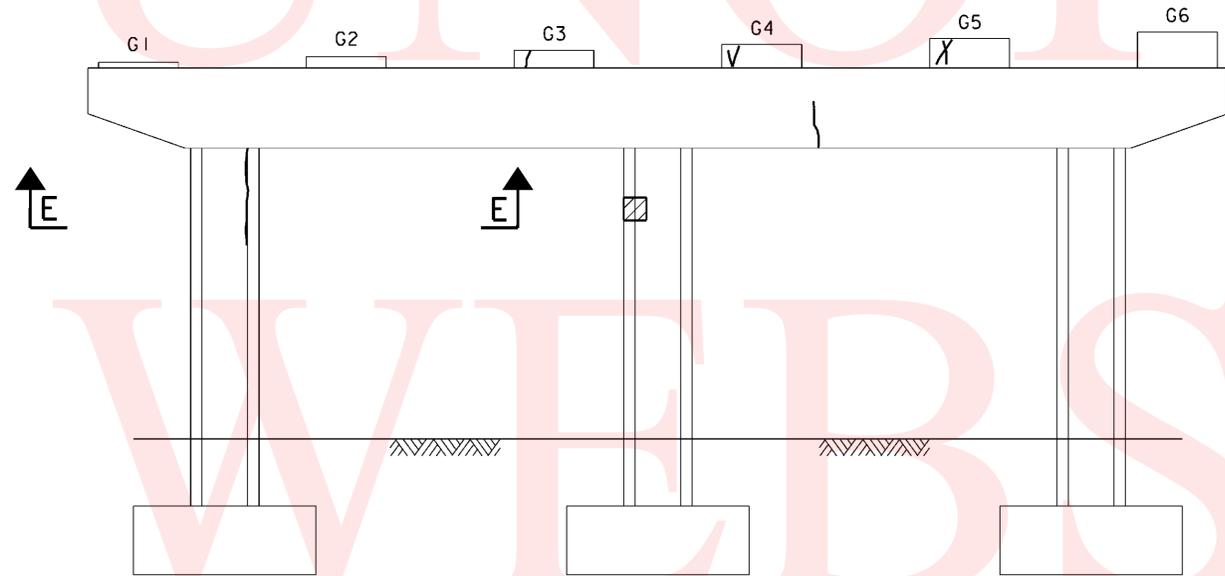
SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

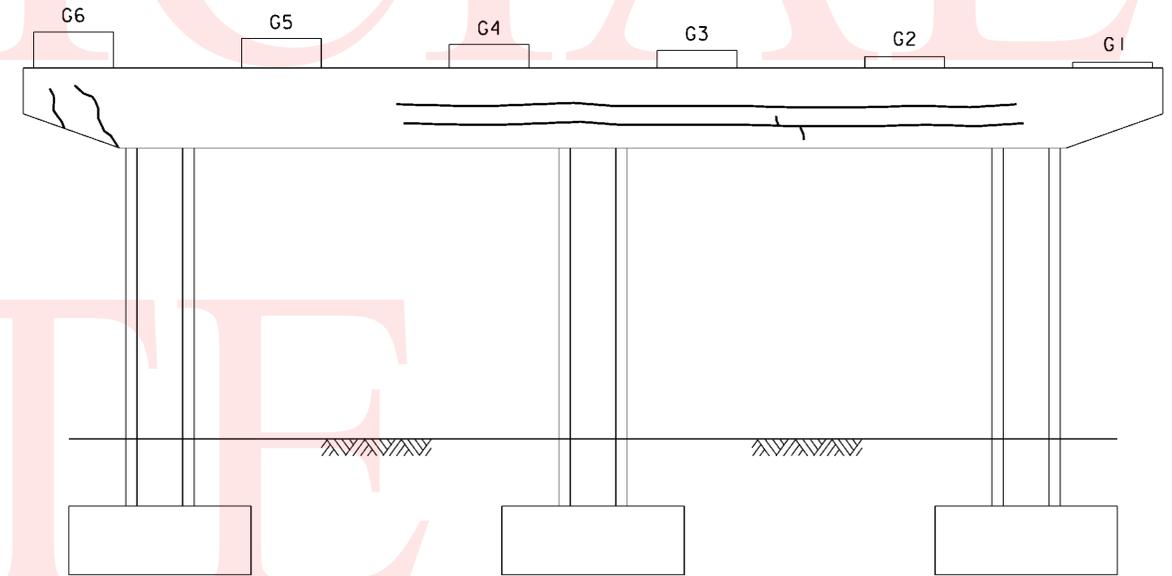
LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

SECTION E-E - UNDERSIDE OF CAP
NOT TO SCALE



BRIDGE 703A - PIER 4
CONCRETE REPAIR (SOUTH ELEVATION)
NOT TO SCALE



BRIDGE 703A - PIER 4
CONCRETE REPAIR (NORTH ELEVATION)
NOT TO SCALE

NOTE:

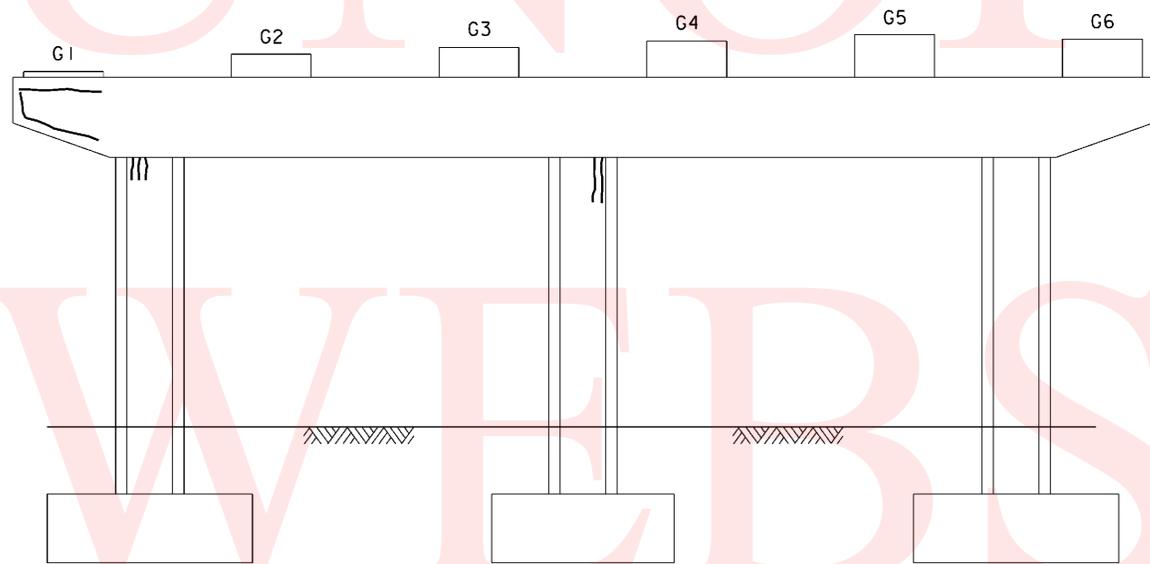
SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

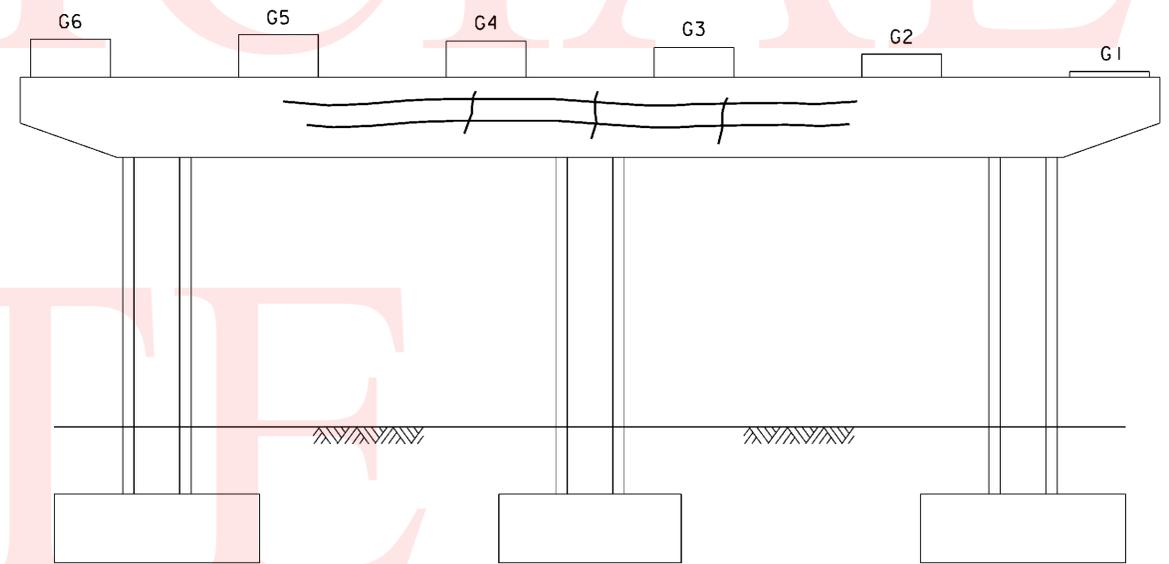
LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR

UNOFFICIAL



BRIDGE 703A - PIER 5
CONCRETE REPAIR (SOUTH ELEVATION)
 NOT TO SCALE



BRIDGE 703A - PIER 5
CONCRETE REPAIR (NORTH ELEVATION)
 NOT TO SCALE

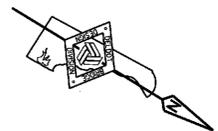
NOTE:

SUBSTRUCTURES ARE NUMBERED FROM SOUTH TO NORTH.

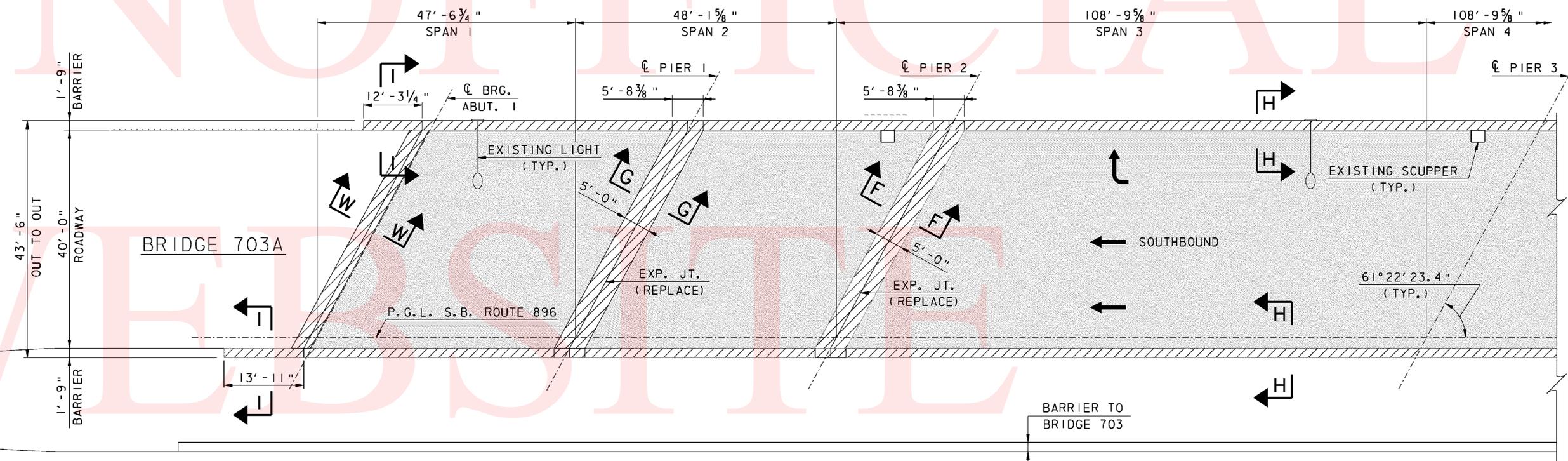
PIER CONCRETE REPAIRS SHOWN GRAPHICALLY. REPAIR AREAS ARE BASED ON FIELD INSPECTION OBSERVATIONS TAKEN IN FEBRUARY/MARCH 2009. THE CONCRETE REPAIR QUANTITIES FOR ITEMS 602572, 602586, 602611 AND 602626 (AS APPLICABLE) HAVE BEEN INCREASED TO ACCOUNT FOR ADDITIONAL QUANTITIES DUE TO REMOVAL OF UNSOUND, LOOSE AND/OR DELAMINATED CONCRETE AND/OR LATENT DEFECTS THAT MAY HAVE OCCURRED SINCE THE INSPECTIONS.

LEGEND:

-  DEEP SPALL REPAIR
-  DELAMINATED CONCRETE AND/OR SHALLOW SPALL REPAIR
-  CRACK REPAIR



UNOFFICIAL



DECK PLAN - DEMOLITION
SCALE: 3/32" = 1'-0"

NOTES:

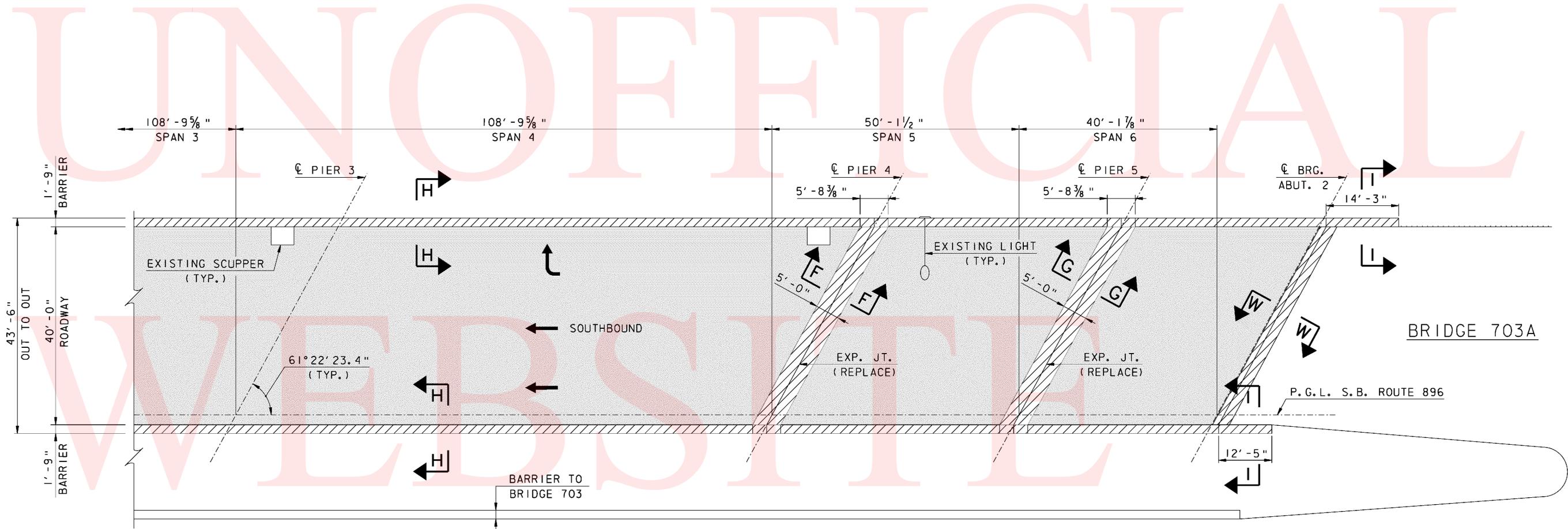
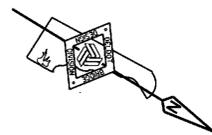
- FOR SECTIONS F-F & G-G, SEE EXPANSION JOINT DEMOLITION DETAILS.
- FOR SECTIONS H-H & I-I, SEE BARRIER DEMOLITION DETAILS.
- FOR SECTIONS W-W, SEE BACKWALL REPAIR AND BEAMSEAT/CHEEKWALL REPAIR DETAILS.

LEGEND:

- TO BE REMOVED
- 7/8" CONCRETE MILLING

ADDENDUMS / REVISIONS

CONTRACT T201207402	BRIDGE NO. 1-703A
COUNTY NEW CASTLE	DESIGNED BY: AJF CHECKED BY: BSB/MAA



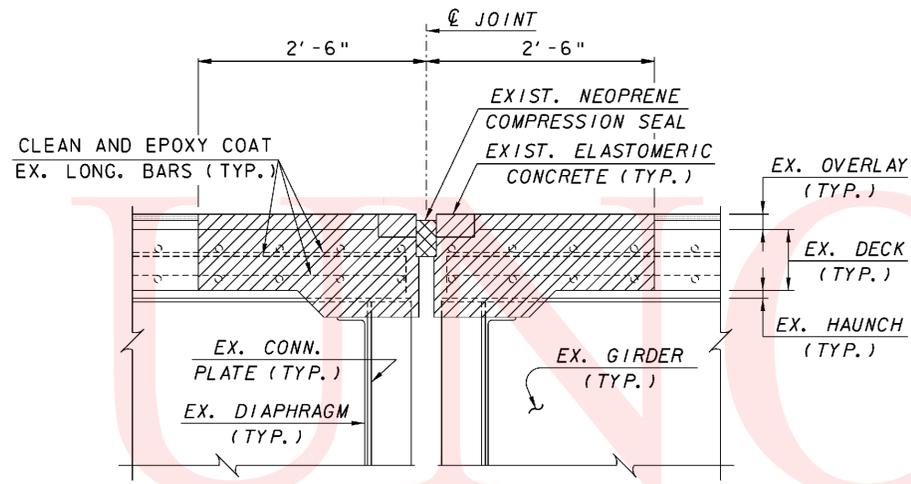
DECK PLAN - DEMOLITION
 SCALE: 1/32" = 1'-0"

NOTES:

- FOR SECTIONS F-F & G-G, SEE EXPANSION JOINT DEMOLITION DETAILS.
- FOR SECTIONS H-H & I-I, SEE BARRIER DEMOLITION DETAILS.
- FOR SECTIONS W-W, SEE BACKWALL REPAIR AND BEAMSEAT/CHEEKWALL REPAIR DETAILS.

LEGEND:

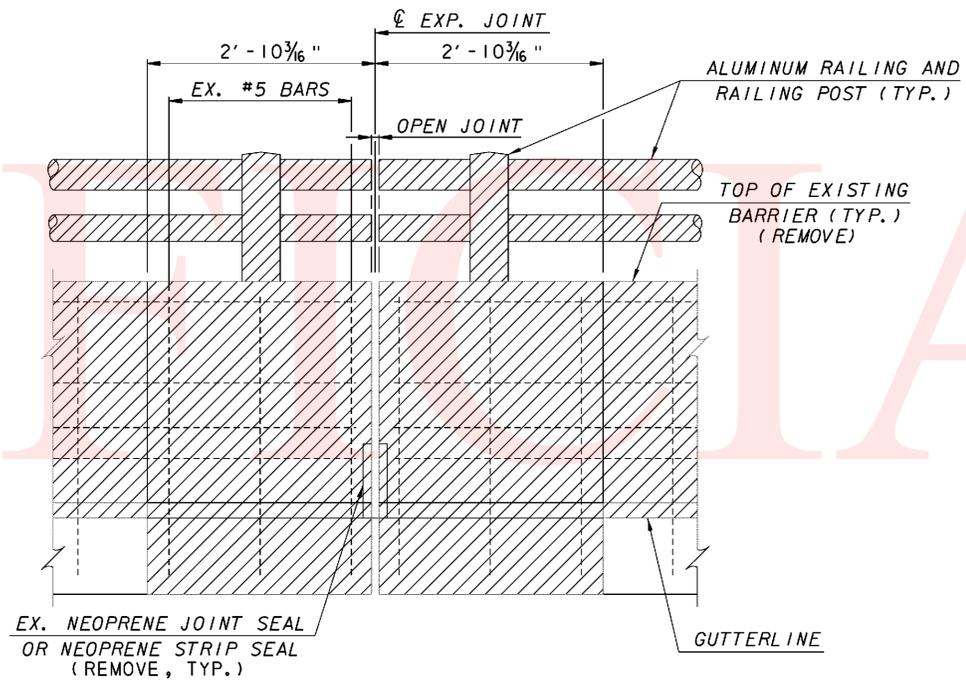
-  TO BE REMOVED
-  3/8" CONCRETE MILLING



SECTION F-F

SCALE: 1" = 1'-0"

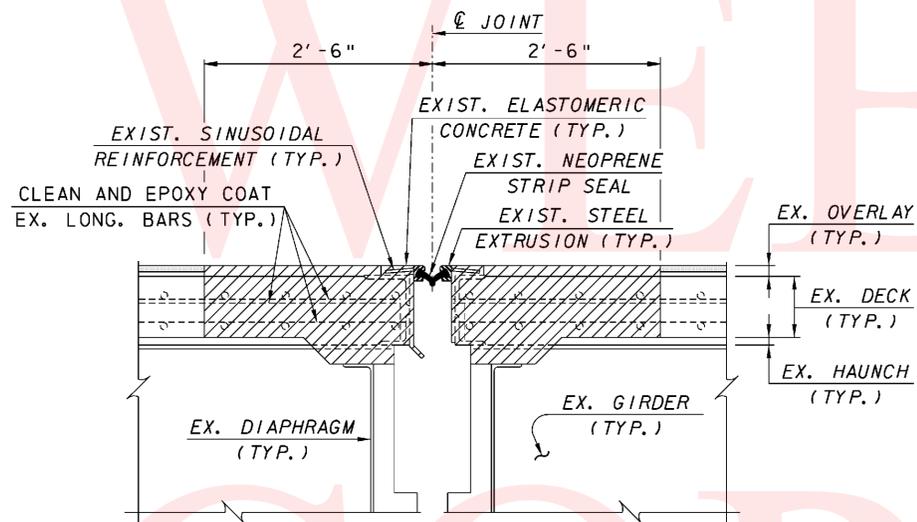
PIERS 2 & 4



BARRIER ELEVATION - DEMOLITION

SCALE: 1" = 1'-0"

- TO BE REMOVED
- 7/8" CONCRETE MILLING

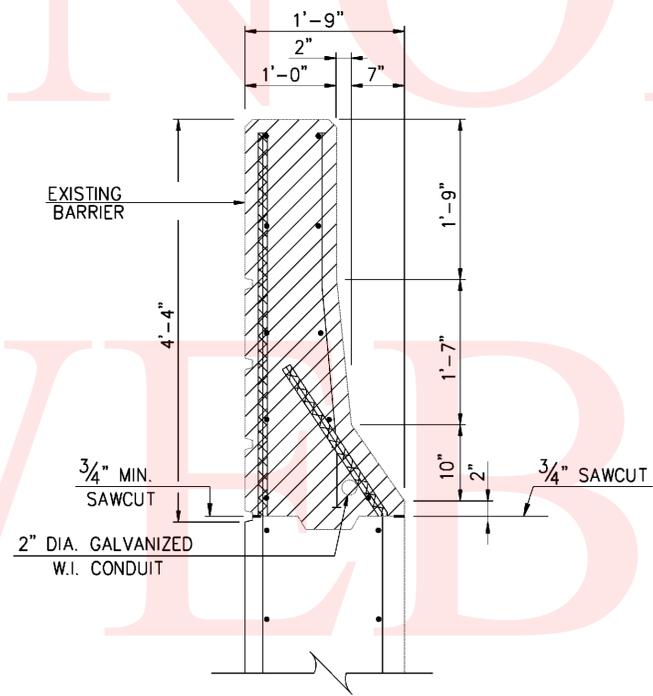


SECTION G-G

SCALE: 1" = 1'-0"

PIERS 1 & 5

UNOFFICIAL

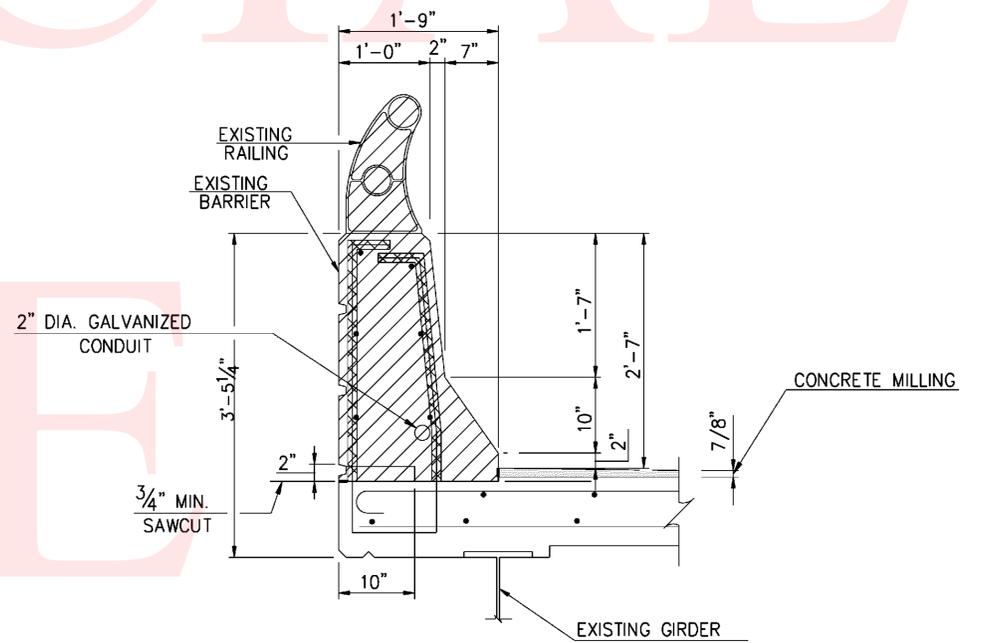


SECTION I-I
SCALE: 1" = 1'-0"

 TO BE REMOVED
 1/8" CONCRETE MILLING

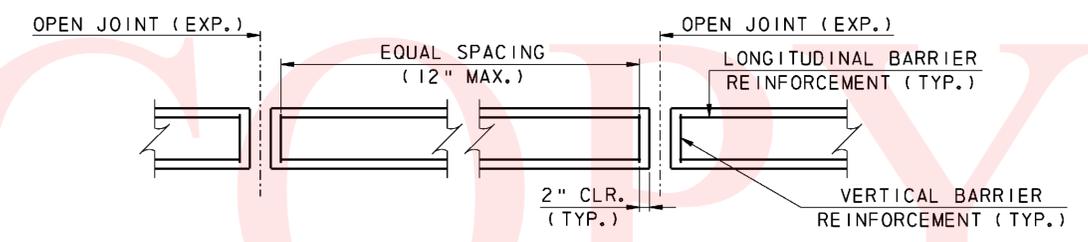
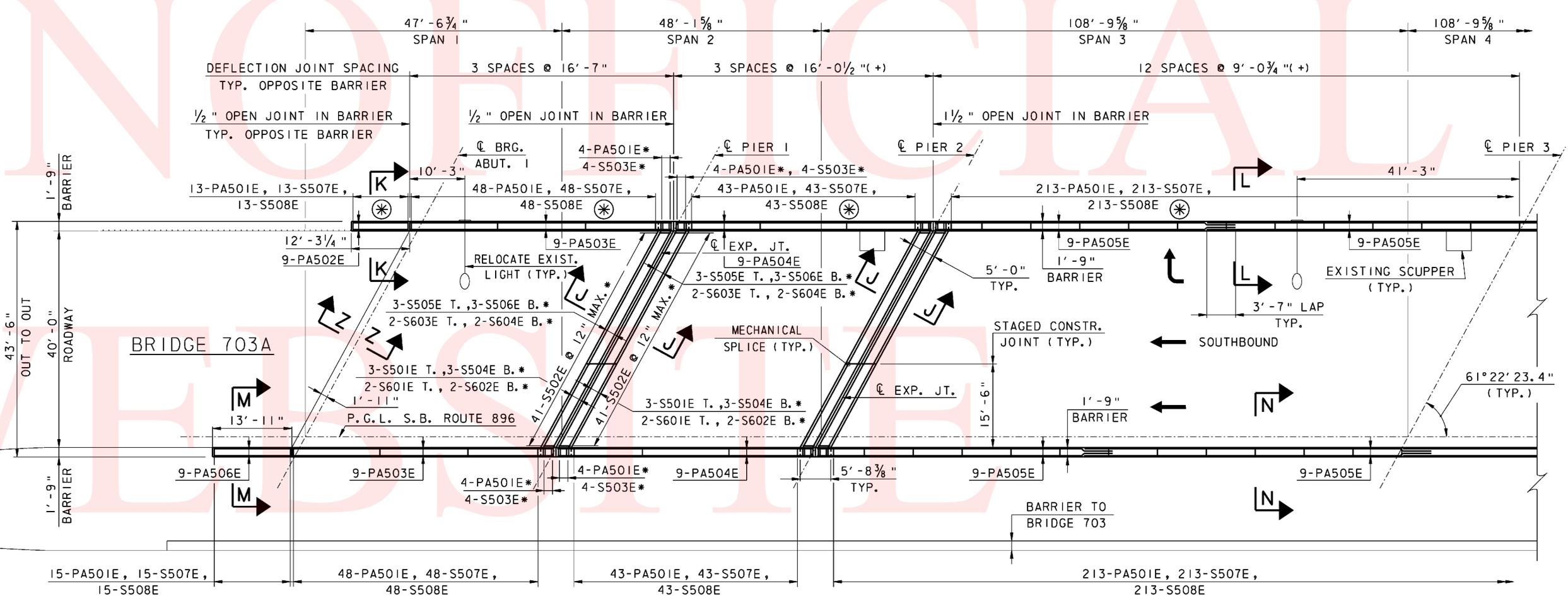
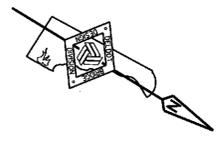
NOTE:

EPOXY COAT THE EXPOSED END OF THE EXISTING REINFORCEMENT BARS THAT ARE CUT OFF.



SECTION H-H
SCALE: 1" = 1'-0"

COPY



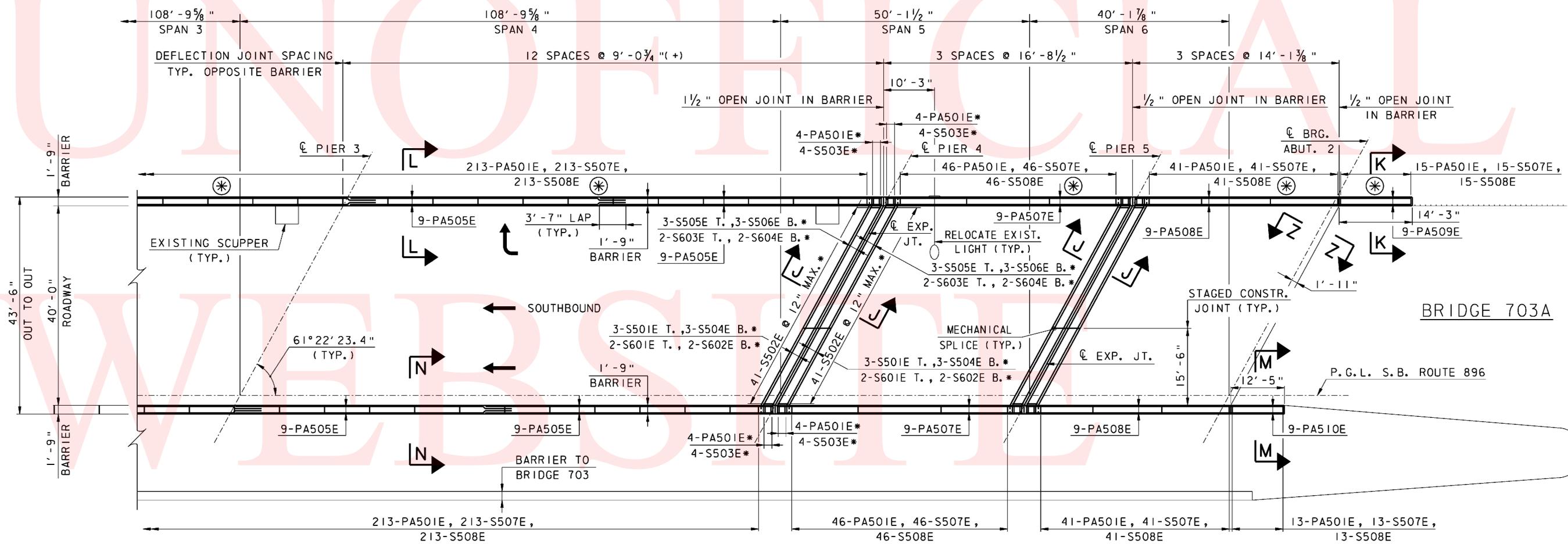
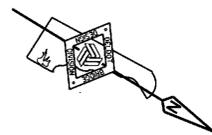
DECK REINFORCEMENT PLAN

SCALE: 1/32" = 1'-0"

*NOTE: REINFORCEMENT TYPICAL AT EACH EXPANSION JOINT.

- NOTES:
- FOR SECTIONS K-K, L-L, M-M & N-N, SEE BARRIER AND ARCHITECTURAL TREATMENT DETAILS.
 - FOR SECTION J-J, JOINT REPAIR REINFORCEMENT AND DIMENSIONS, SEE EXPANSION JOINT DETAILS.
 - FOR SECTIONS Z-Z, SEE BACKWALL REPAIR AND BEAMSEAT/CHEEKWALL REPAIR DETAILS.
 - FOR GUARDRAIL TO BARRIER CONNECTION DETAILS SEE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD DRAWING NO. B-5(2010).
- ⊗ INDICATES BARRIER TO RECEIVE ARCHITECTURAL TREATMENT, SEE BARRIER ARCHITECTURAL TREATMENT DETAIL.

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		SCALE AS NOTED	INTERSTATE BRIDGE MAINTENANCE, SOUTH	CONTRACT	BRIDGE NO.	1-703A	DECK REINFORCEMENT PLAN SPANS 1 THRU 3	SHEET NO.
					T201207402	DESIGNED BY: AJF	52		
					COUNTY	CHECKED BY: BSB/MAA	TOTAL SHTS.		
					NEW CASTLE		89		



DECK REINFORCEMENT PLAN

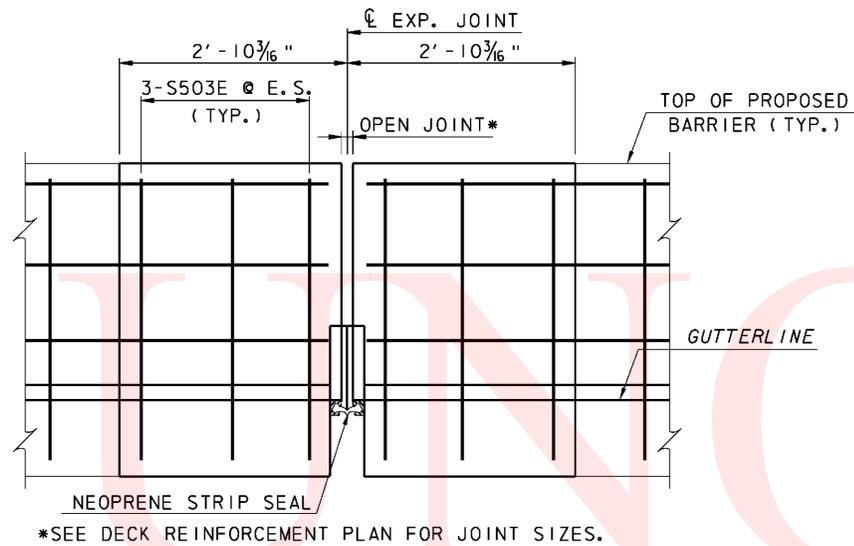
SCALE: 1/2" = 1'-0"

*NOTE: REINFORCEMENT TYPICAL AT EACH EXPANSION JOINT.

NOTES:

- FOR SECTIONS K-K, L-L, M-M & N-N, SEE BARRIER AND ARCHITECTURAL TREATMENT DETAILS.
 - FOR SECTION J-J, JOINT REPAIR REINFORCEMENT, AND DIMENSIONS, SEE EXPANSION JOINT DETAILS.
 - FOR SECTIONS Z-Z, SEE BACKWALL REPAIR AND BEAMSEAT/CHEEKWALL REPAIR DETAILS.
 - FOR GUARDRAIL TO BARRIER CONNECTION DETAILS SEE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD DRAWING NO. B-5(2010).
 - FOR BARRIER VERTICAL REINFORCEMENT SPACING, SEE DETAIL ON DECK REINFORCEMENT SPANS 1 THRU 3 SHEET.
- ⊛ INDICATES BARRIER TO RECEIVE ARCHITECTURAL TREATMENT, SEE BARRIER ARCHITECTURAL TREATMENT DETAIL.

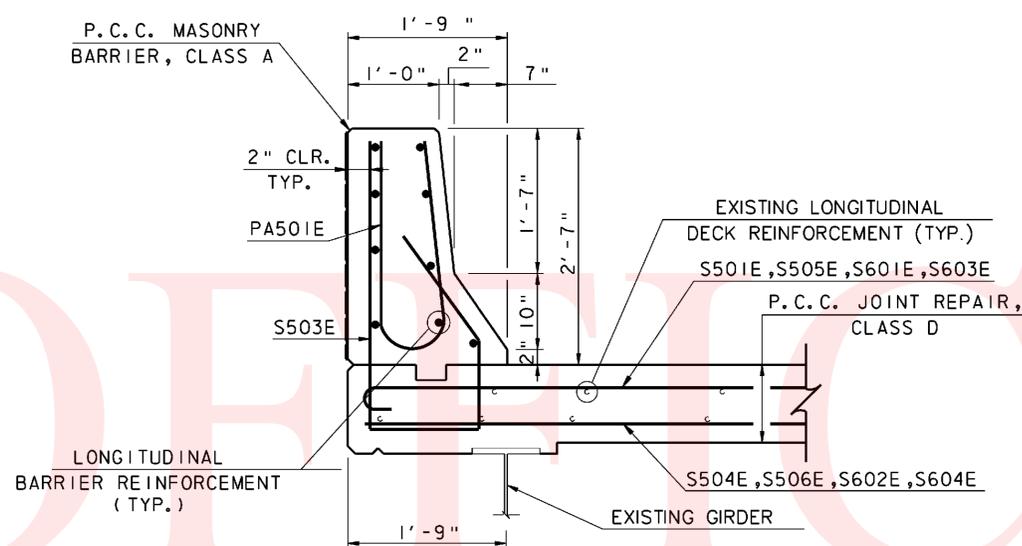
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>NOT TO SCALE</p>	<p>INTERSTATE BRIDGE MAINTENANCE, SOUTH</p>	CONTRACT	BRIDGE NO.	1-703A	<p>DECK REINFORCEMENT PLAN SPANS 4 THRU 6</p>	SHEET NO.	53
					T201207402	DESIGNED BY: AJF	<p>TOTAL SHTS.</p> <p>89</p>			
					COUNTY	CHECKED BY: BSB/MAA				
					NEW CASTLE					



BARRIER ELEVATION

SCALE: 1" = 1'-0"

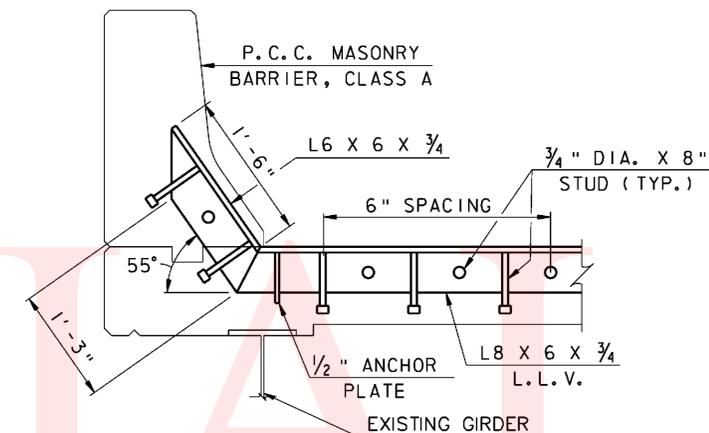
*SEE DECK REINFORCEMENT PLAN FOR JOINT SIZES.



TYPICAL BARRIER SECTION AT JOINT REPLACEMENT

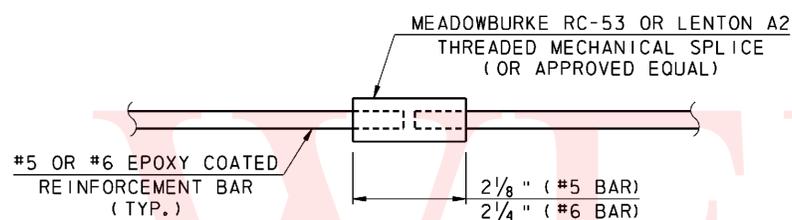
SCALE: 1" = 1'-0"

NOTE:
SEE BARRIER ELEVATION FOR LIMITS.



JOINT ARMOR DETAIL AT BARRIER

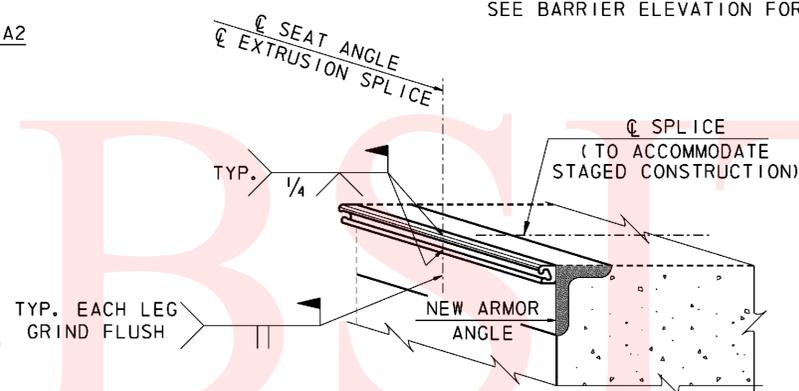
SCALE: 1" = 1'-0"



REINFORCEMENT BAR SPLICE DETAIL

NOT TO SCALE

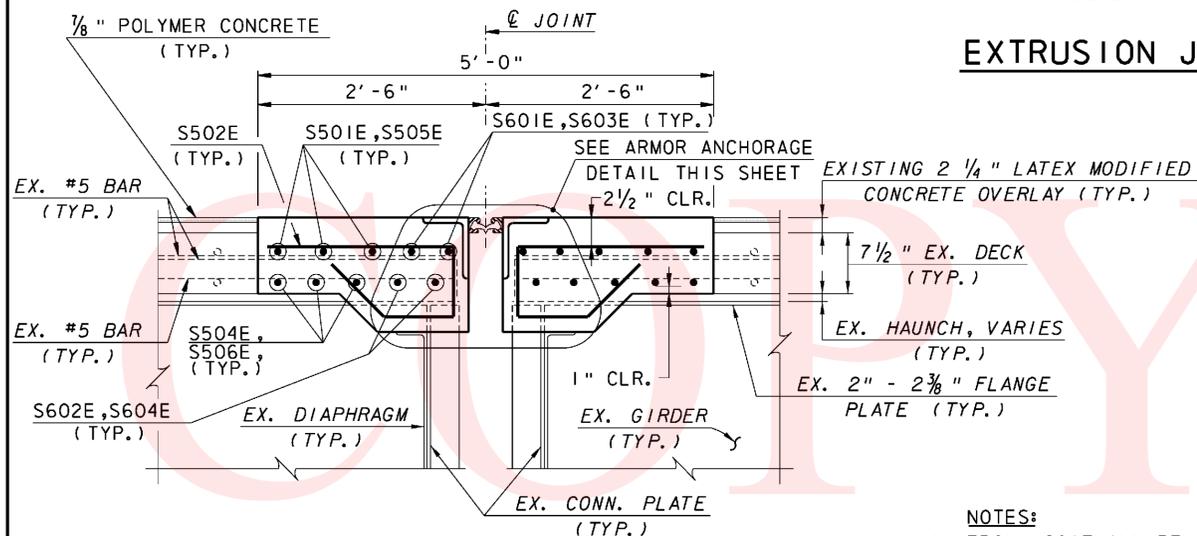
NOTE:
MECHANICAL SPLICE IS INCIDENTAL TO ITEM 604000.



EXTRUSION JOINT SPLICE DETAIL

NOT TO SCALE

NOTE A
SECTION OF THE STEEL EXTRUSION SHALL BE WELDED AS PER MANUFACTURER'S RECOMMENDATION.

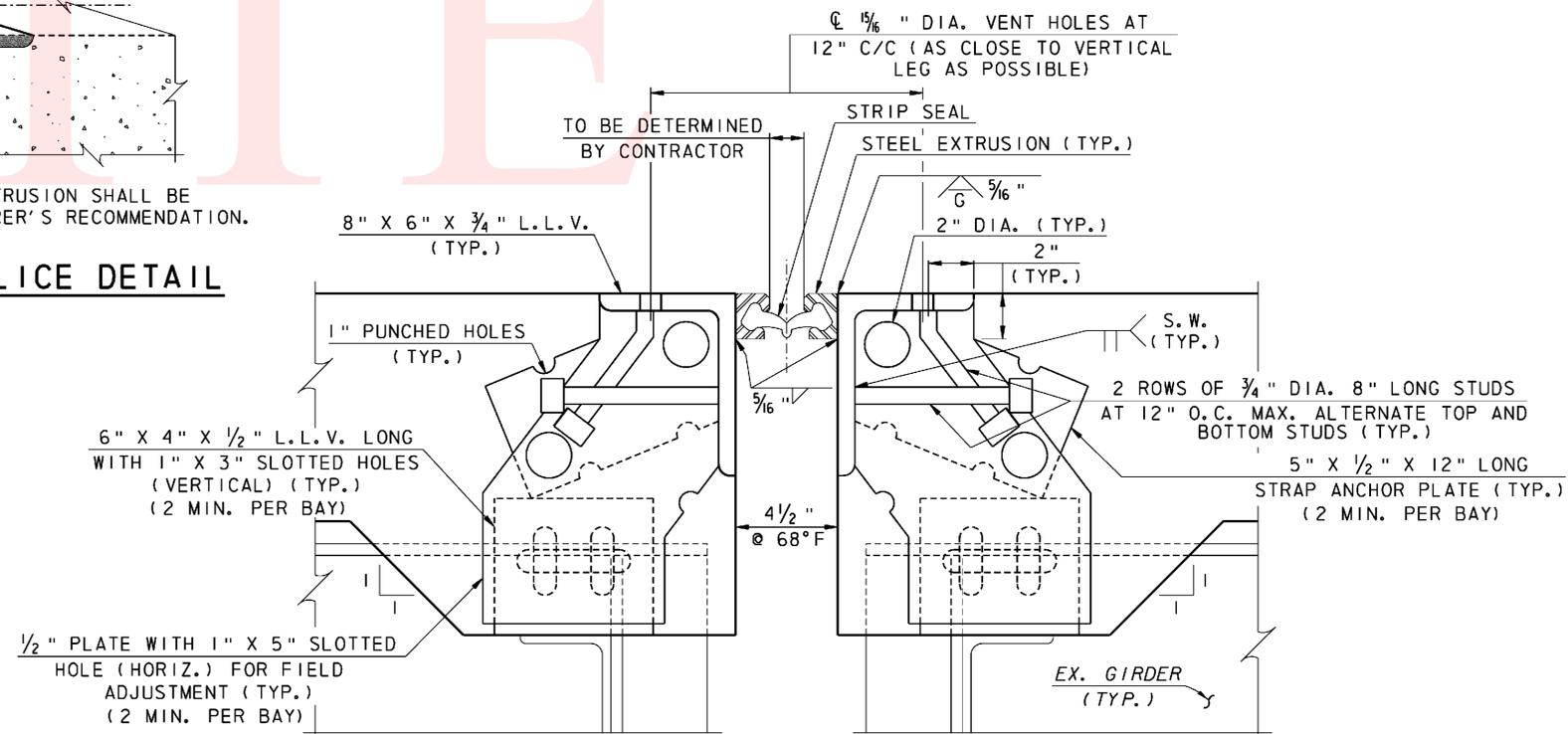


SECTION J-J

SCALE: 1" = 1'-0"

NOTE: ARMOR ANCHORAGE NOT SHOWN

- NOTES:
- EPOXY COAT ALL REINFORCEMENT BARS.
 - GALVANIZE ALL ARMOR & ANCHORAGE. PAINT ALL EXPOSED STEEL SURFACES.
 - DECK JOINT TO BE POURED WITH PORTLAND CEMENT CONCRETE MASONRY, SUPERSTRUCTURE, CLASS D.
 - BARRIER TO BE POURED WITH PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A.

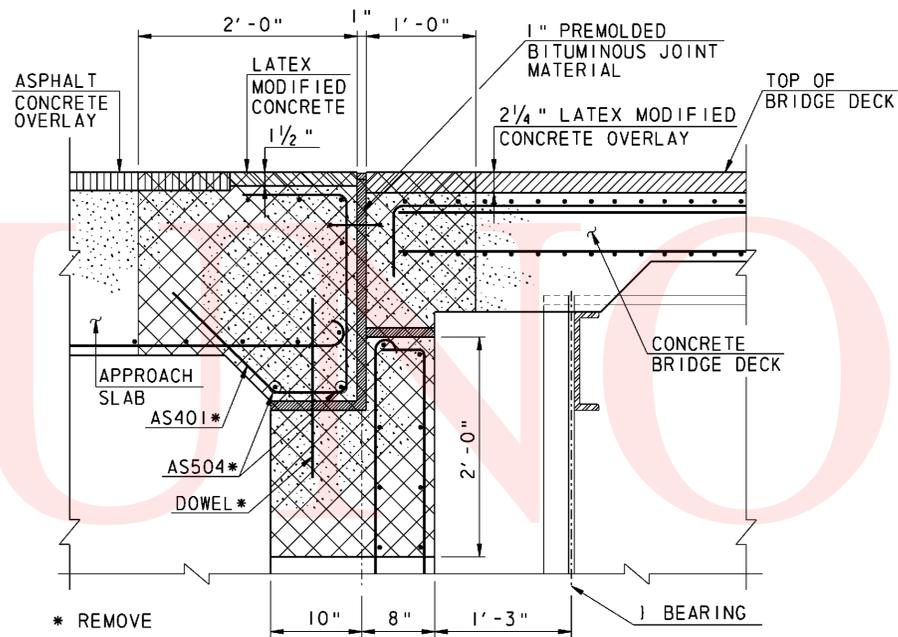


ARMOR ANCHORAGE DETAIL

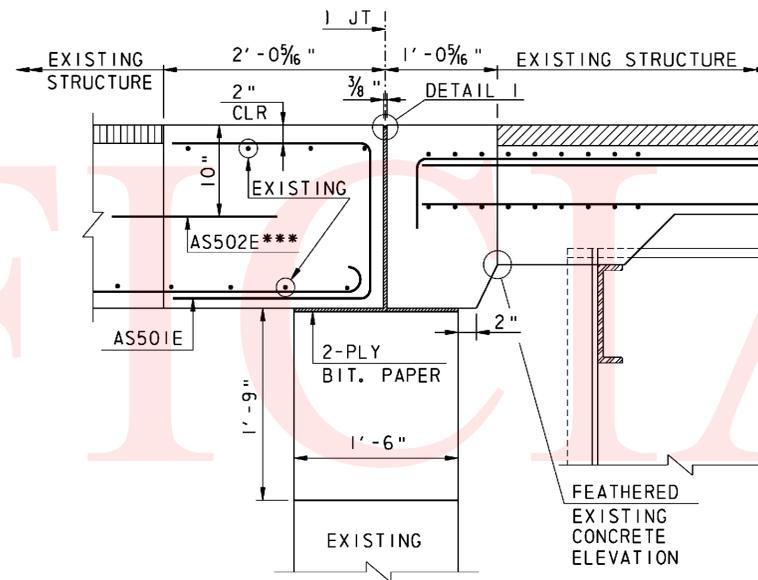
SCALE: 3" = 1'-0"

NOTE: REINFORCEMENT NOT SHOWN

NOTE:
LOCATION OF HOLES IN PLATES MUST COINCIDE WITH REBAR LOCATIONS

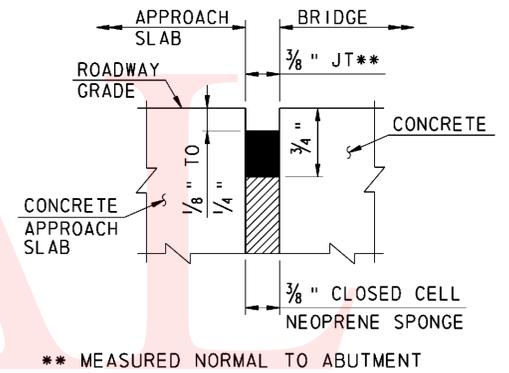


SECTION W-W
NOT TO SCALE

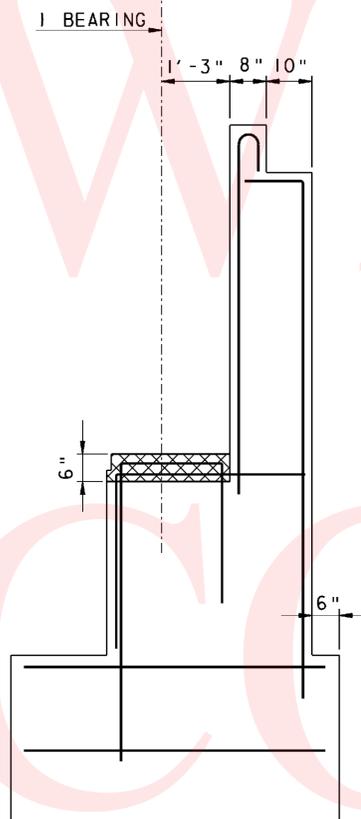


*** TO BE ANCHORED INTO EXISTING CONCRETE WITH ADHESIVE ANCHOR. EMBED PER MANUFACTURER'S REQUIREMENTS. MINIMUM 18" PROJECTION INTO NEW CONCRETE.

SECTION Z-Z
NOT TO SCALE

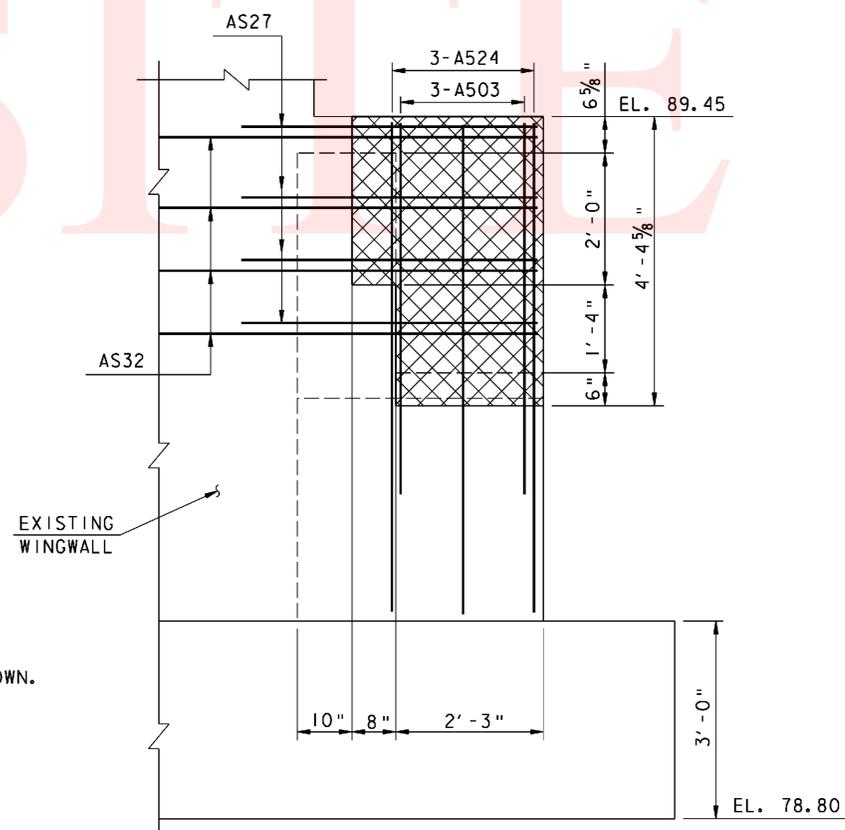


DETAIL I
NOT TO SCALE



BEAM SEAT REPAIR
NOT TO SCALE

- NOTES:
- REMOVE DEBRIS, REMOVE AND REPLACE CONCRETE AS SHOWN. PER THE DISCRETION OF THE ENGINEER, EXISTING REINFORCEMENT MAY BE REMOVED AND REPLACED.
 - 21 TON MINIMUM JACKING FORCE REQUIRED.



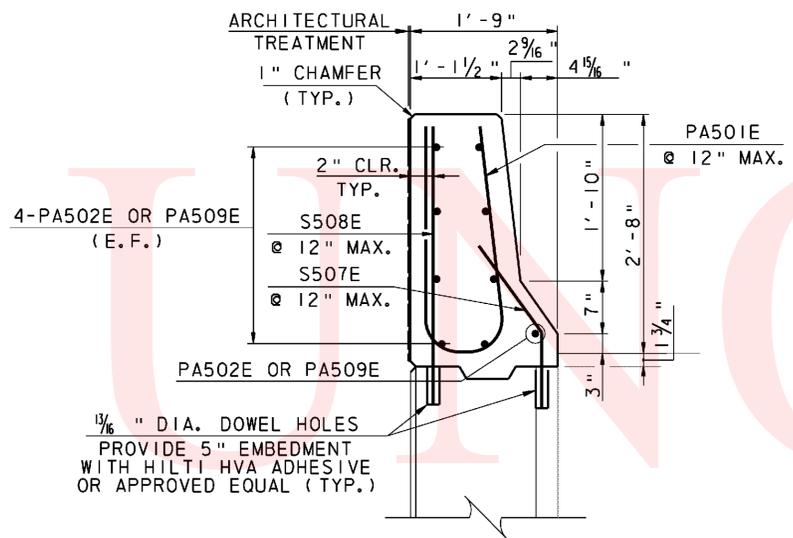
**CHEEKWALL REPLACEMENT
DETAIL**
NOT TO SCALE

NOTES:

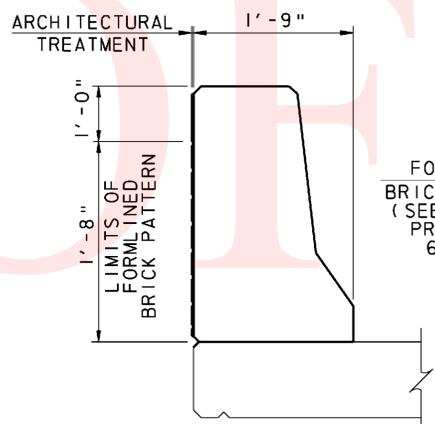
- FOR LOCATION OF BEAM SEAT REPAIR, SEE ABUTMENT CONCRETE REPAIRS SHEET.
- FOR LOCATION OF SECTION W-W, SEE DEMOLITION PLANS.
- FOR LOCATION OF SECTION Z-Z, SEE DECK REINFORCEMENT PLANS.

LEGEND:

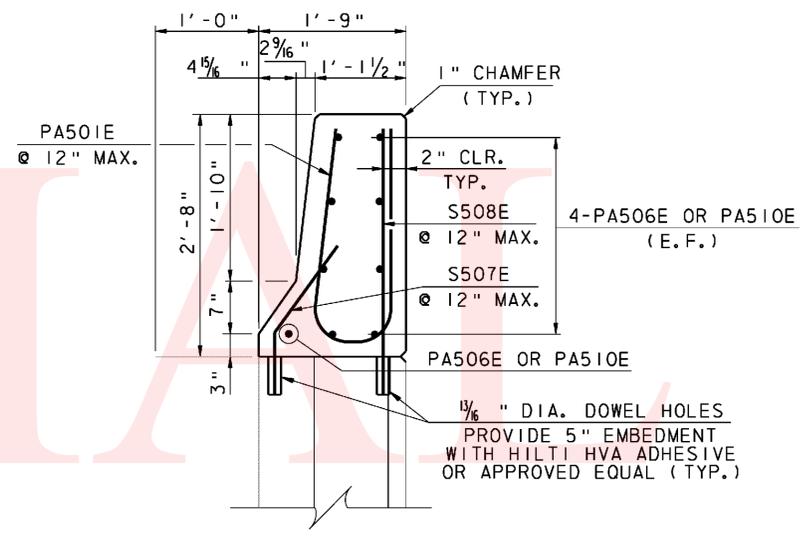
TO BE REMOVED



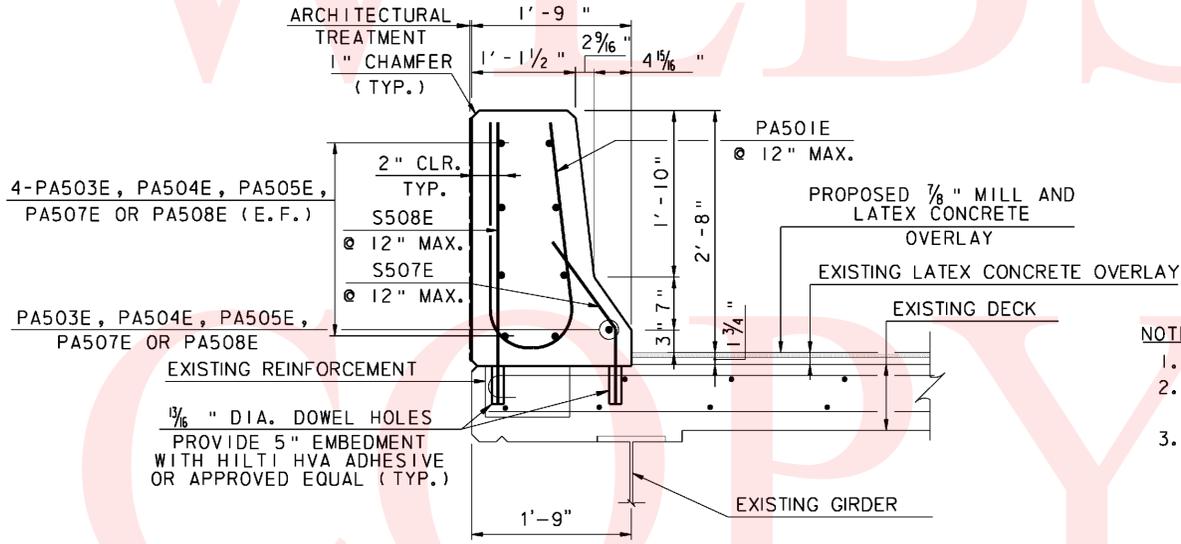
SECTION K-K
SCALE: 1" = 1'-0"



SECTION P-P BARRIER ELEVATION
BARRIER ARCHITECTURAL TREATMENT DETAIL
SCALE: 1" = 1'-0"



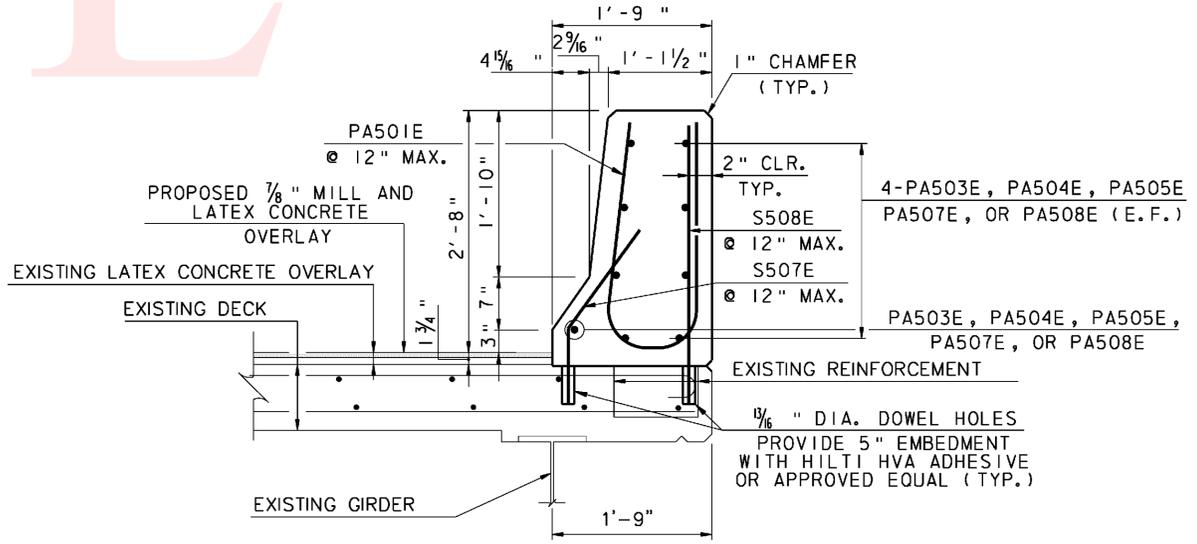
SECTION M-M
SCALE: 1" = 1'-0"



SECTION L-L
SCALE: 1" = 1'-0"

- NOTES:**
1. EPOXY COAT ALL REINFORCEMENT BARS.
 2. BARRIER SHALL BE CONSTRUCTED WITH P.C.C. MASONRY, PARAPET, CLASS A.
 3. APPLY DEPARTMENT APPROVED EPOXY BONDING COMPOUND BETWEEN EXISTING AND NEW P.C.C. MASONRY. EPOXY BONDING COMPOUND SHALL CONFORM TO AASHTO M235.

7/8" CONCRETE OVERLAY



SECTION N-N
SCALE: 1" = 1'-0"

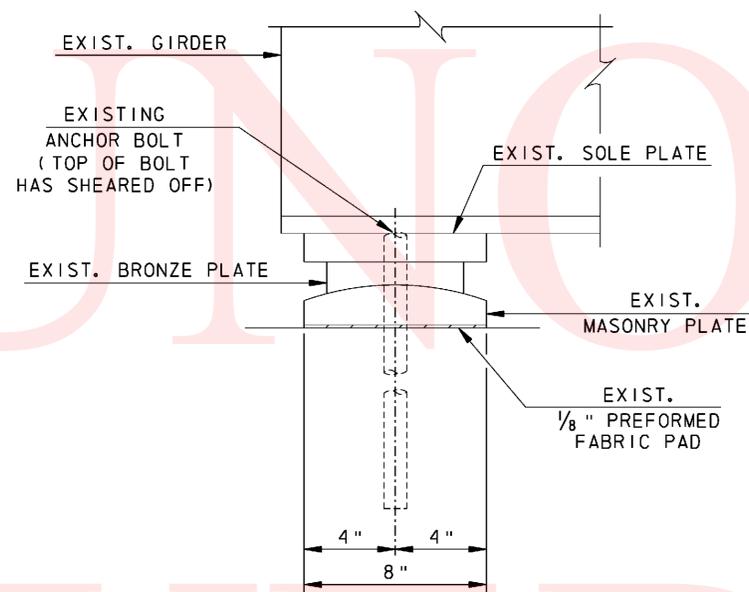
ADDENDUMS / REVISIONS	

NOT TO SCALE

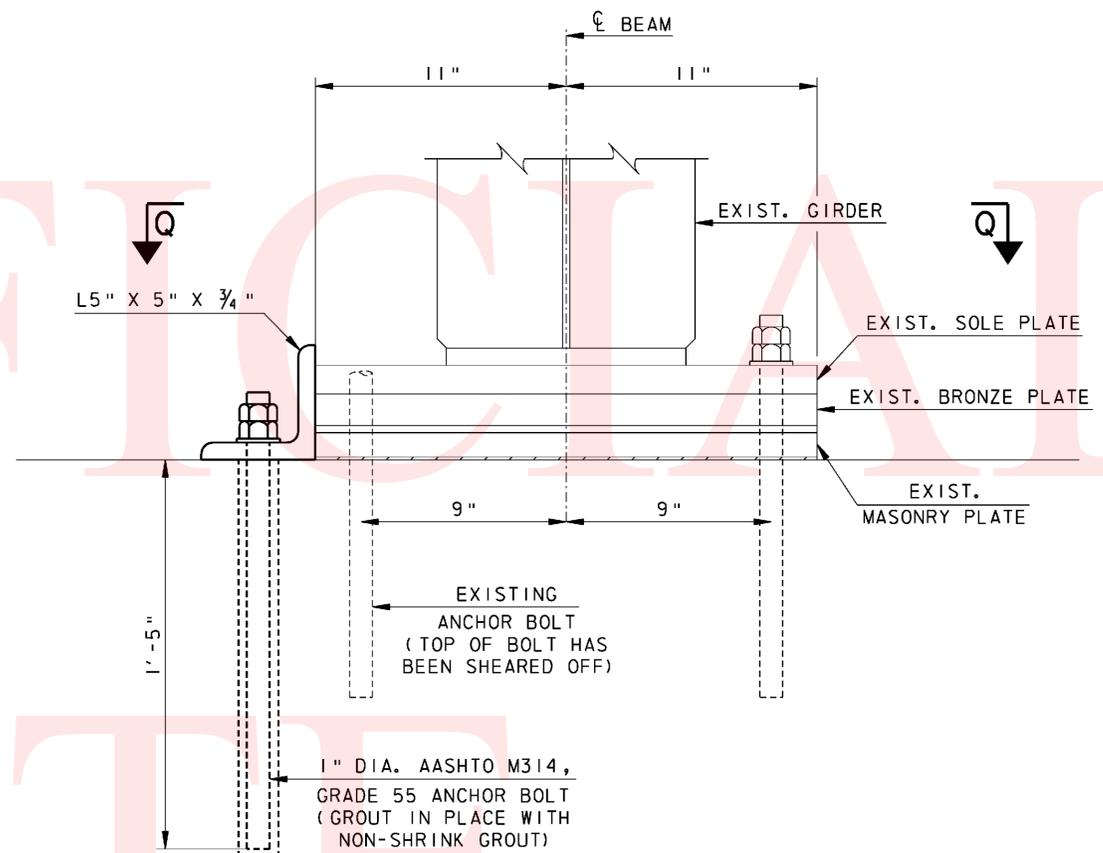
INTERSTATE BRIDGE MAINTENANCE, SOUTH

CONTRACT	BRIDGE NO.	1-703A
T201207402	DESIGNED BY: AJF	
COUNTY	CHECKED BY: BSB/MAA	
NEW CASTLE		

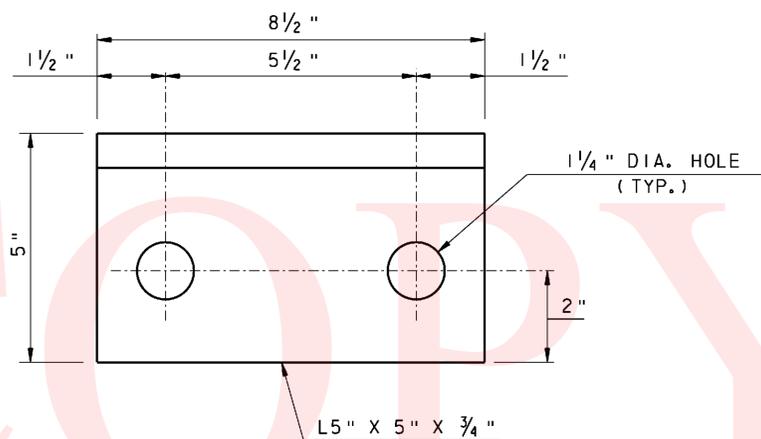
MISCELLANEOUS DETAILS



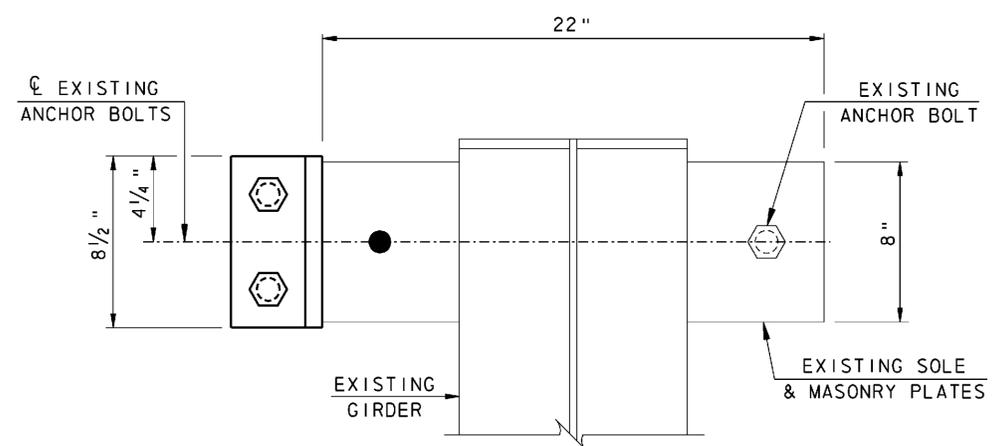
ANCHOR BOLT EXISTING
NOT TO SCALE



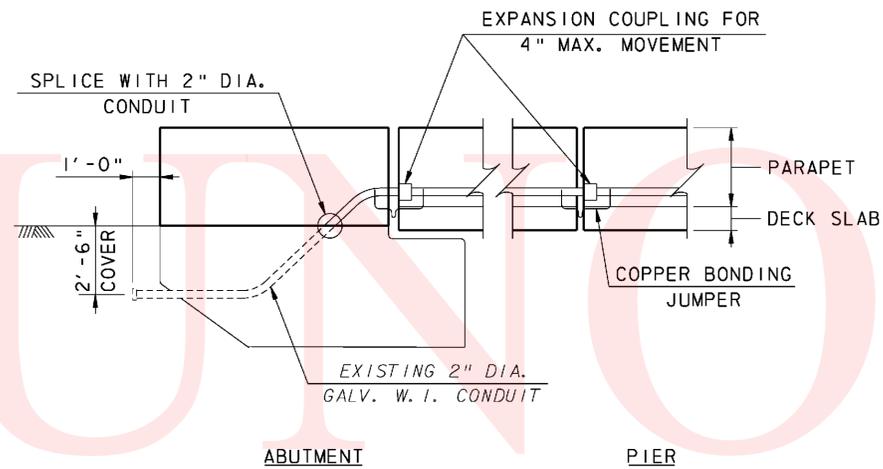
ANCHOR BOLT REPAIR
NOT TO SCALE



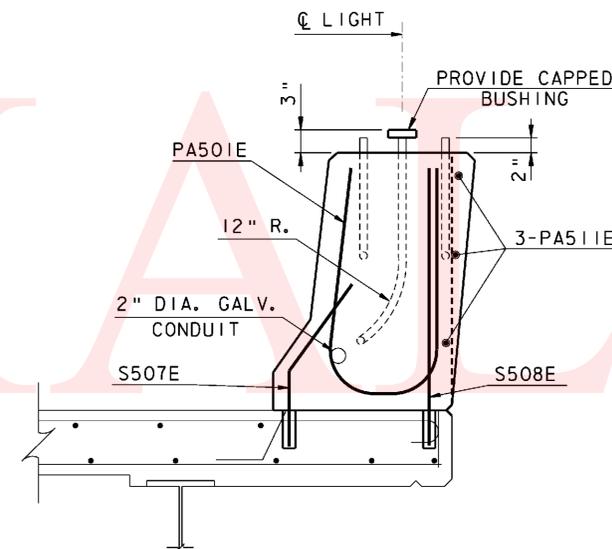
ANGLE DETAIL
NOT TO SCALE



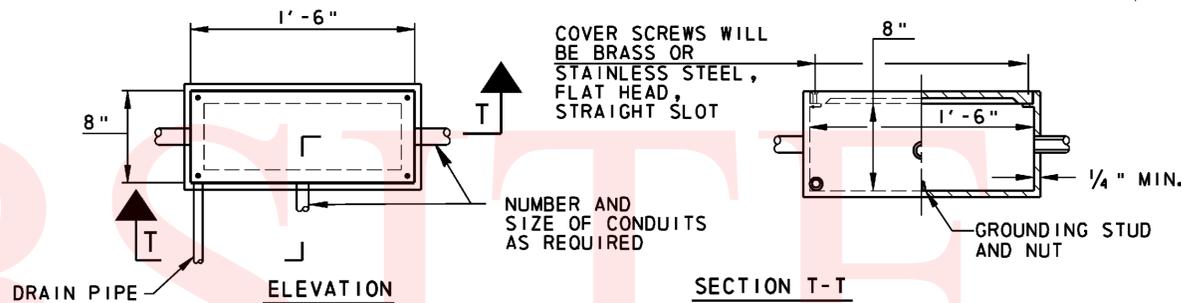
SECTION Q-Q
NOT TO SCALE



EXPANSION JOINT DETAILS FOR CONDUITS
NOT TO SCALE

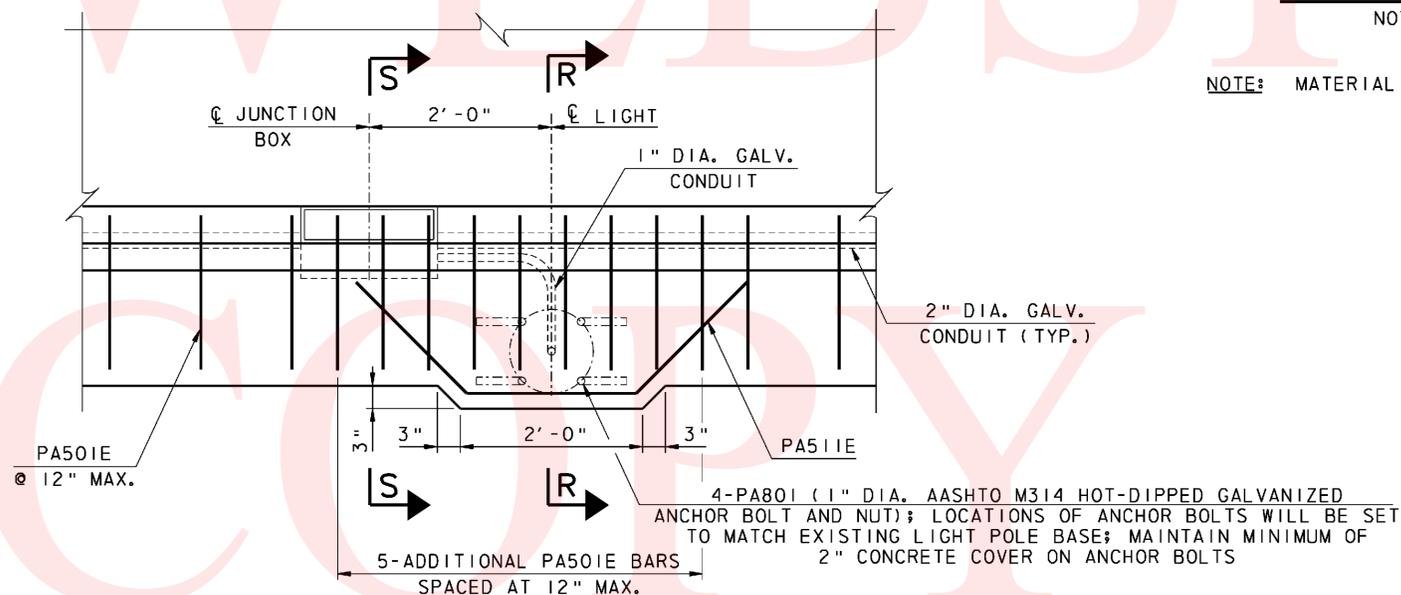


SECTION R-R
SCALE: 1" = 1'-0"

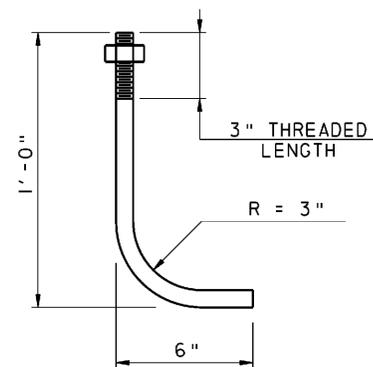


JUNCTION BOX DETAIL
NOT TO SCALE

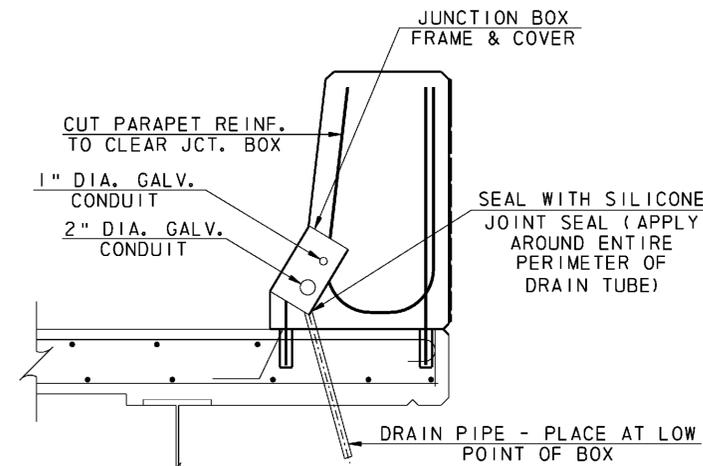
NOTE: MATERIAL SHALL BE GALVANIZED STEEL.



LIGHT BLISTER DETAIL
SCALE: 1" = 1'-0"



ANCHOR BOLT DETAIL
NOT TO SCALE



SECTION S-S
SCALE: 1" = 1'-0"

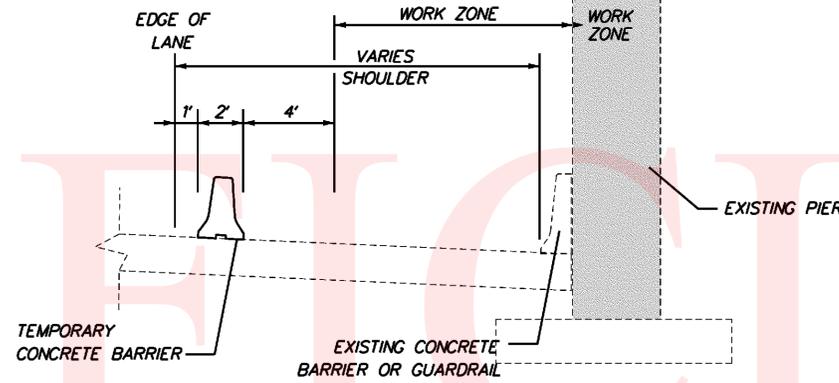
OUTSIDE SHOULDER

W = 12'
 S = 55 MPH
 L = W x S = 12 x 55 = 660 FEET
 SHOULDER TAPER = 1/3 L = 220 FEET MIN

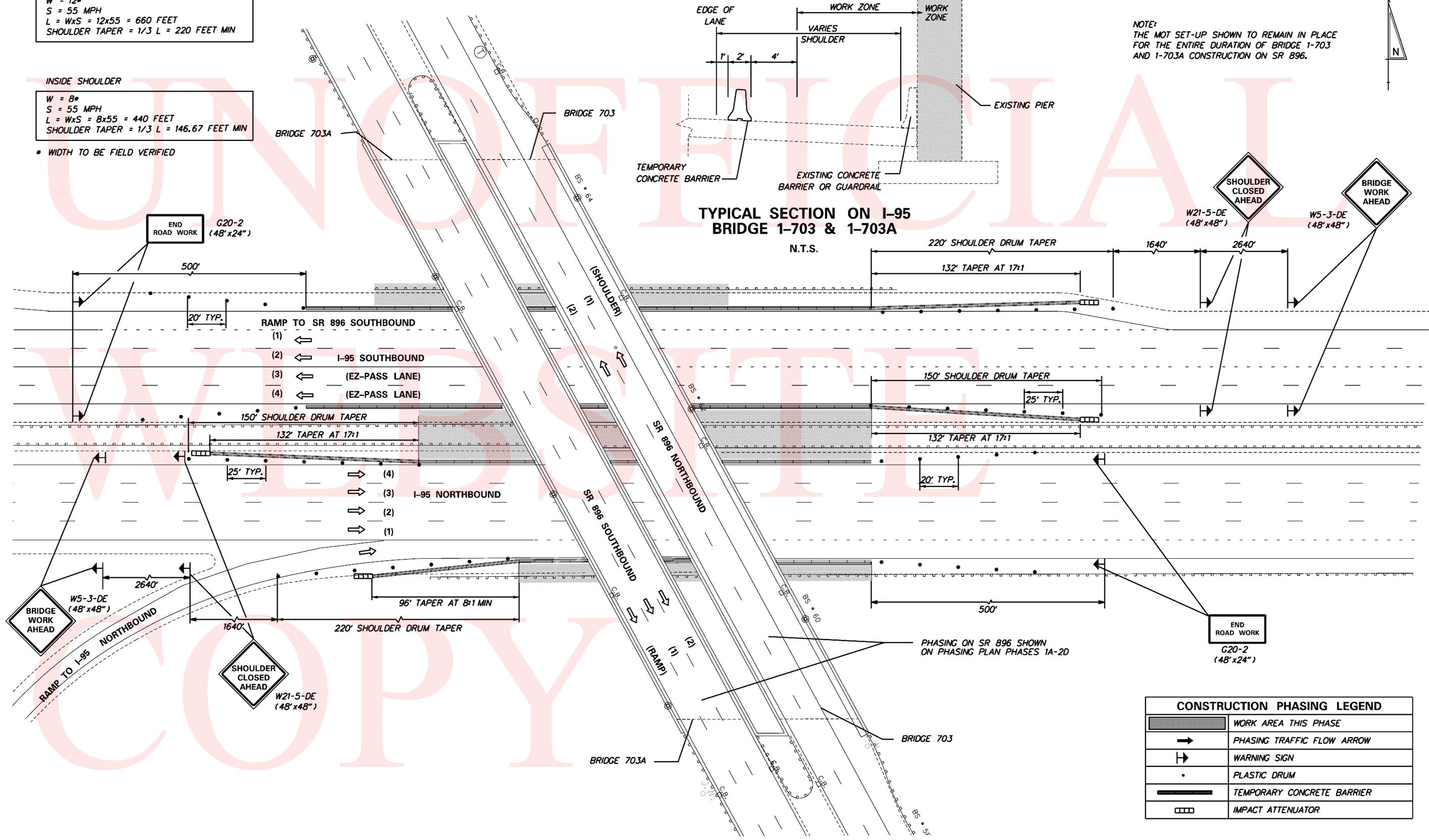
INSIDE SHOULDER

W = 8'
 S = 55 MPH
 L = W x S = 8 x 55 = 440 FEET
 SHOULDER TAPER = 1/3 L = 146.67 FEET MIN

• WIDTH TO BE FIELD VERIFIED



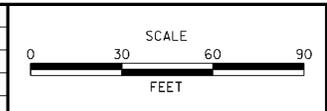
NOTE:
 THE MOT SET-UP SHOWN TO REMAIN IN PLACE
 FOR THE ENTIRE DURATION OF BRIDGE 1-703
 AND 1-703A CONSTRUCTION ON SR 896.



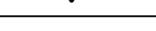
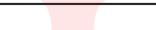
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

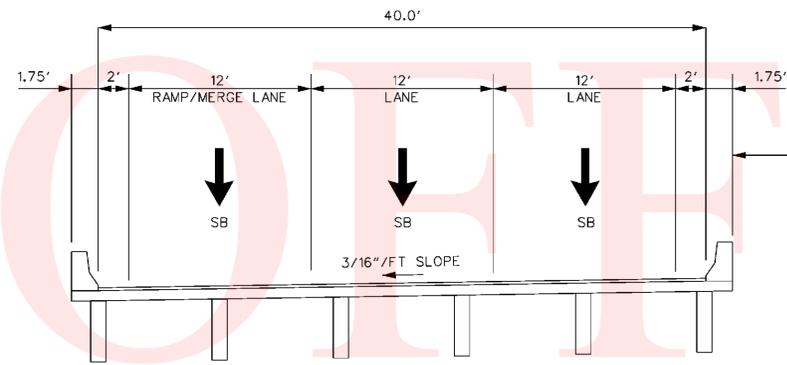
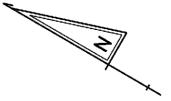
8/24/2012
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ADDENDUMS / REVISIONS

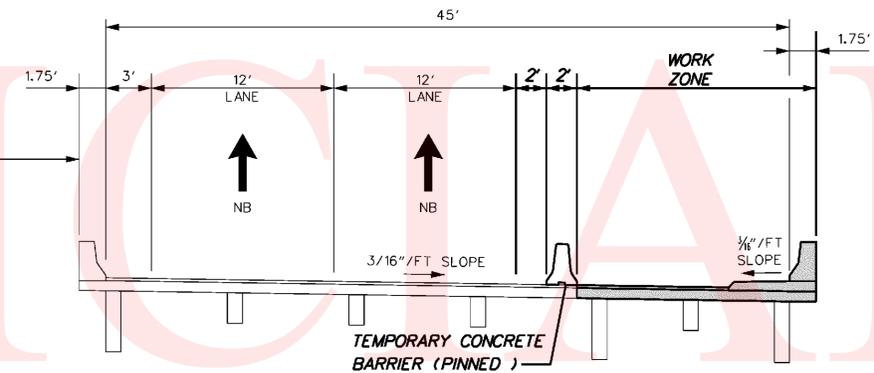


CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

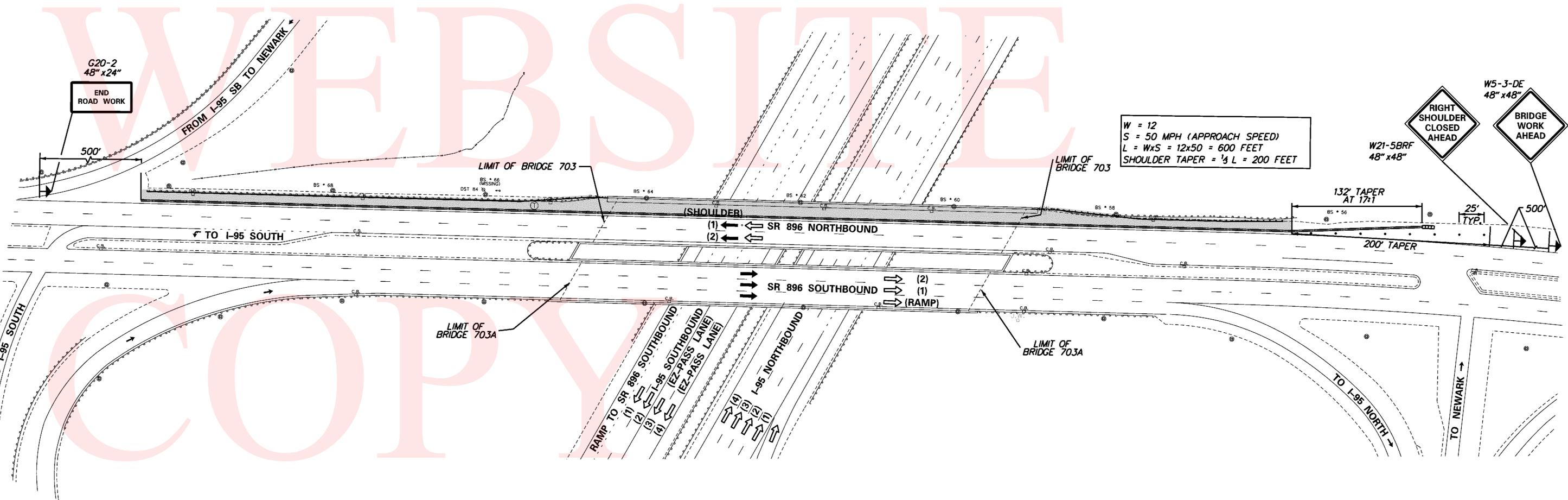
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR



**TYPICAL SECTION
BRIDGE 1-703A**
N.T.S.

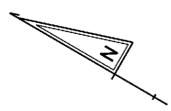


**TYPICAL SECTION
BRIDGE 1-703**
N.T.S.



8/24/2012

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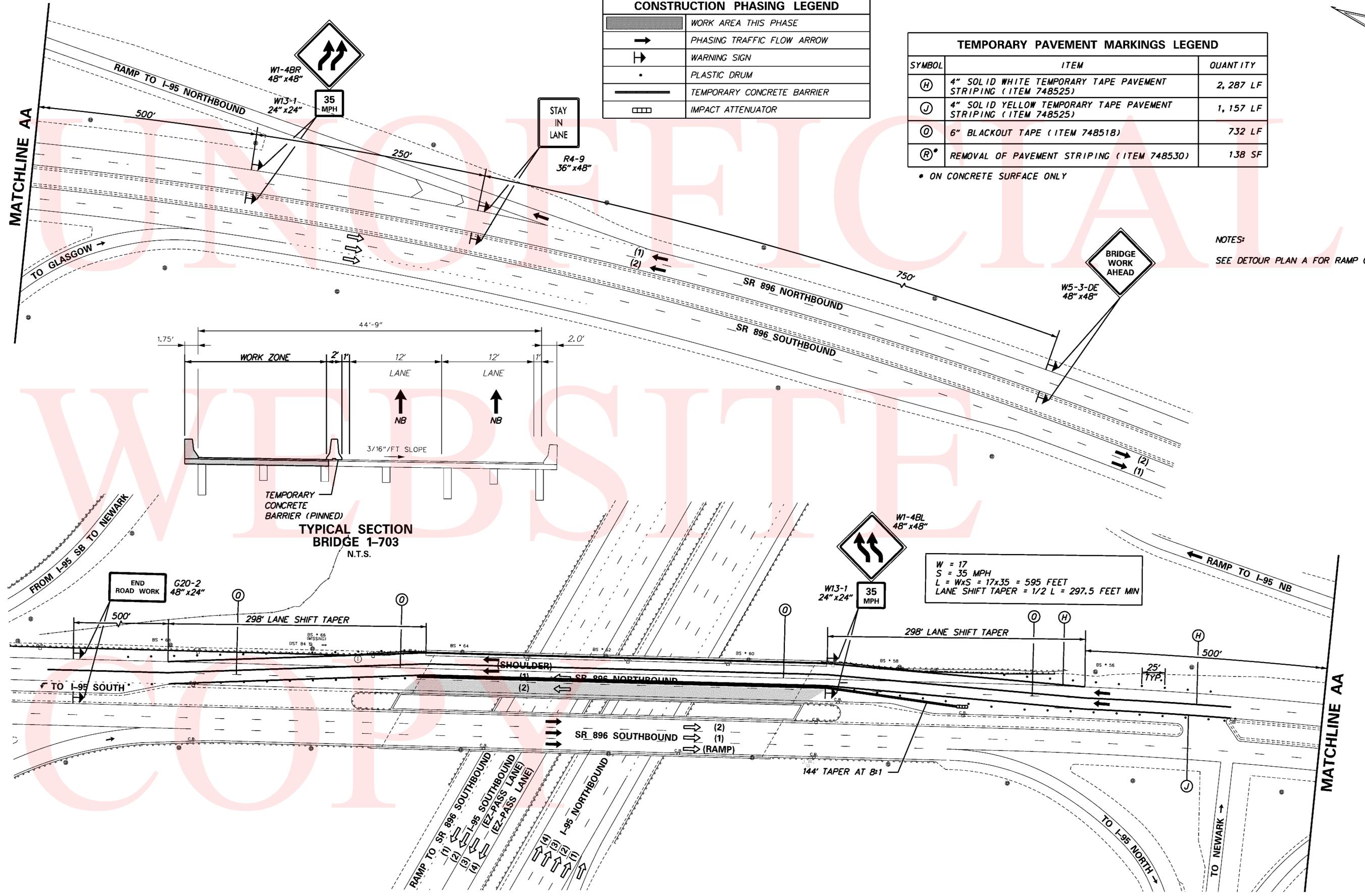


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	2,287 LF
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	1,157 LF
(O)	6" BLACKOUT TAPE (ITEM 748518)	732 LF
(R)	REMOVAL OF PAVEMENT STRIPING (ITEM 748530)	138 SF

* ON CONCRETE SURFACE ONLY

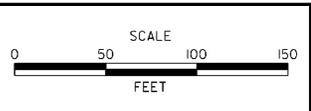
NOTES:
SEE DETOUR PLAN A FOR RAMP CLOSURE



8/24/2012

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ADDENDUMS / REVISIONS

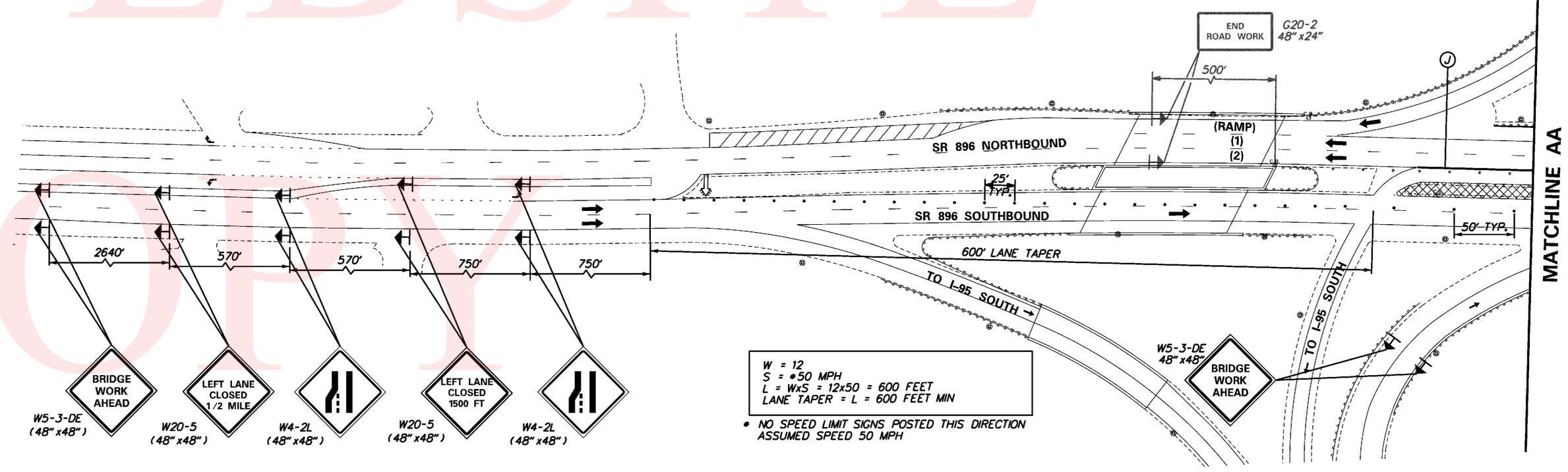
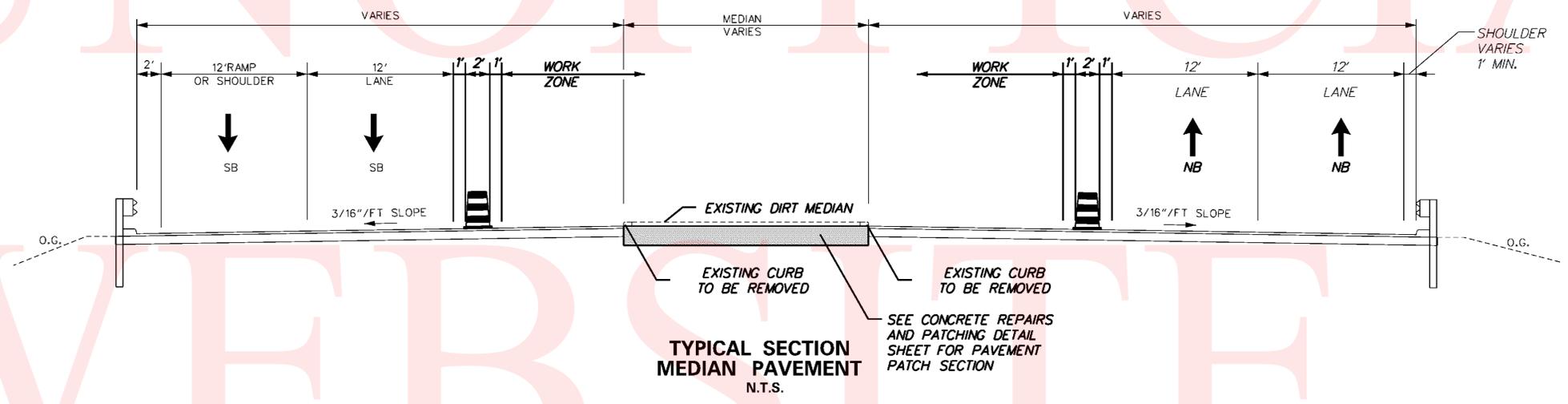
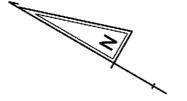


CONTRACT T201207402	BRIDGE NO. 1-703
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

NOTES:
 NORTHBOUND PAVEMENT STRIPING REMAINS THE SAME AS PER PHASE 1C, ADD STRIPING AS SHOWN FOR SR 896 NORTHBOUND TO I-95 SOUTHBOUND AND I-95 NORTHBOUND TO SR 896 NORTHBOUND RAMP CLOSURE.
 SEE DETOUR PLAN A FOR RAMP CLOSURE.

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	96 LF

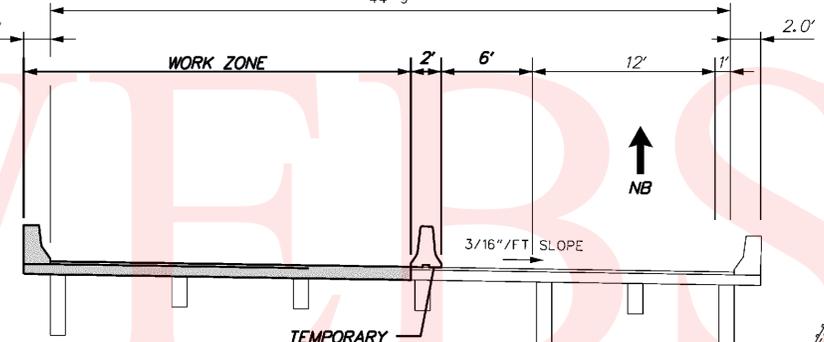
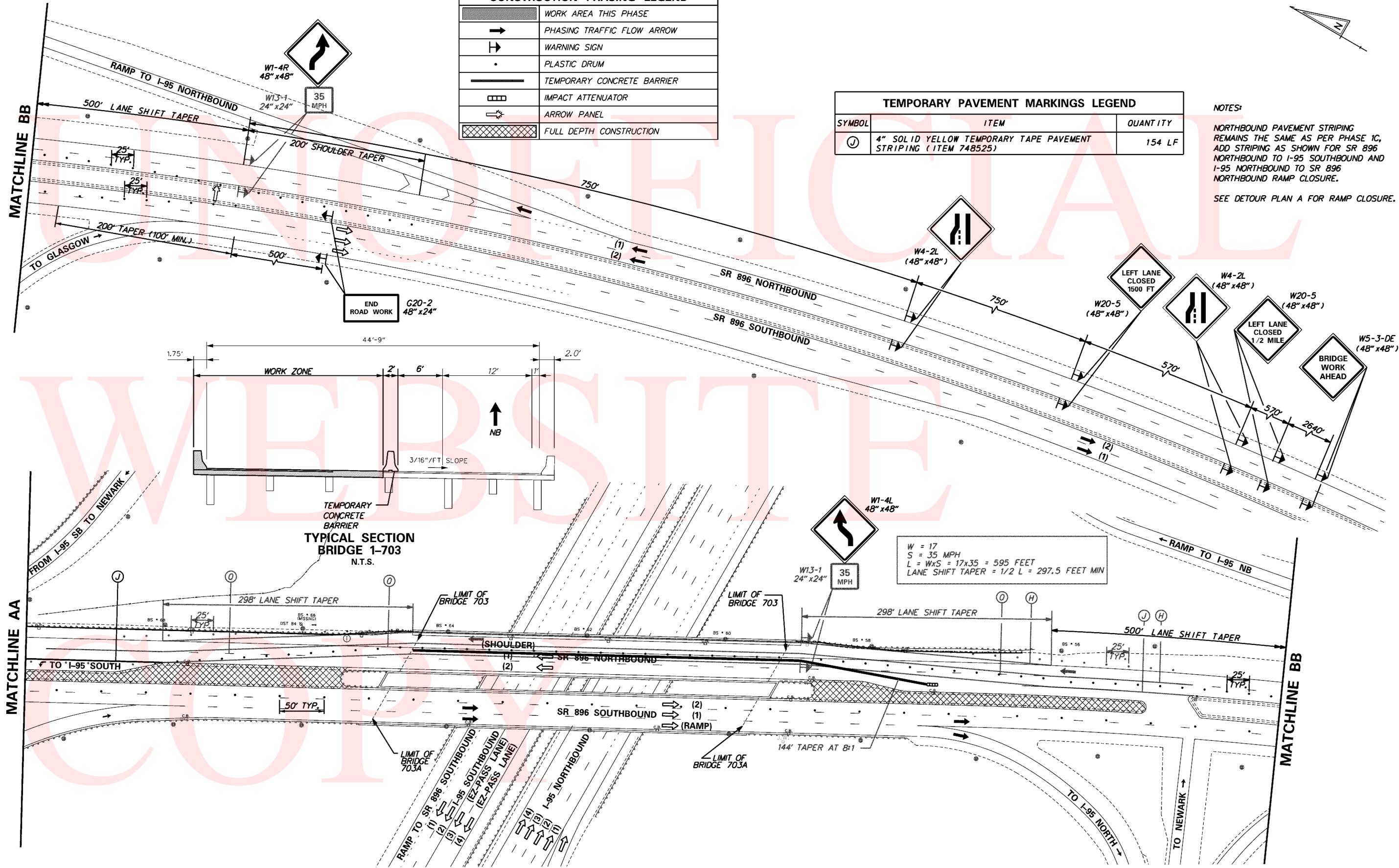


8/24/2012
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CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	154 LF

NOTES:
 NORTHBOUND PAVEMENT STRIPING REMAINS THE SAME AS PER PHASE 1C, ADD STRIPING AS SHOWN FOR SR 896 NORTHBOUND TO I-95 SOUTHBOUND AND I-95 NORTHBOUND TO SR 896 NORTHBOUND RAMP CLOSURE.
 SEE DETOUR PLAN A FOR RAMP CLOSURE.

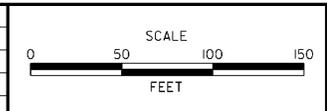


$W = 17$
 $S = 35 \text{ MPH}$
 $L = W \times S = 17 \times 35 = 595 \text{ FEET}$
 $\text{LANE SHIFT TAPER} = 1/2 L = 297.5 \text{ FEET MIN}$

8/24/2012

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ADDENDUMS / REVISIONS

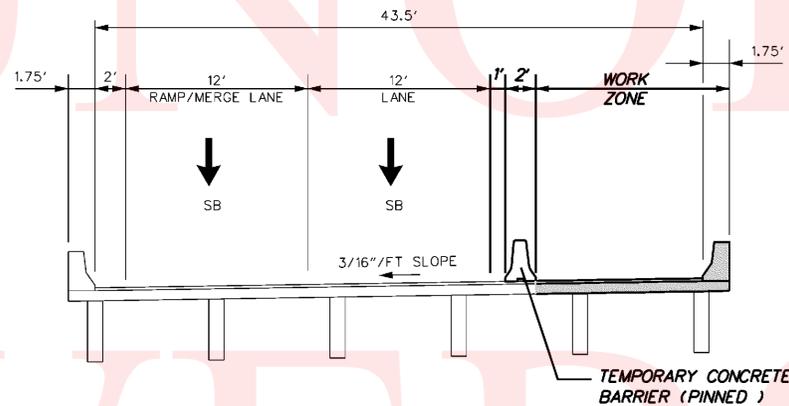
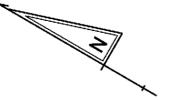


CONTRACT T201207402	BRIDGE NO. 1-703
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

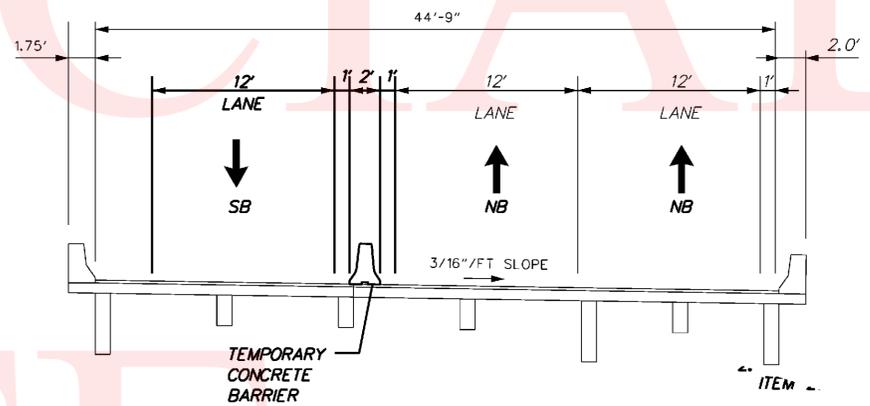
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	570 LF
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	144 LF

NOTES:
 NORTHBOUND TRAFFIC PATTERN
 REMAINS THE SAME AS PER PHASE 1C.
 SEE DETOUR PLAN A FOR RAMP CLOSURE.

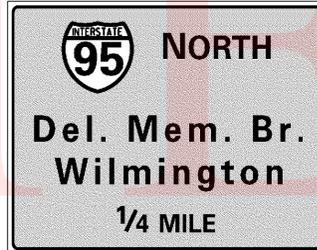
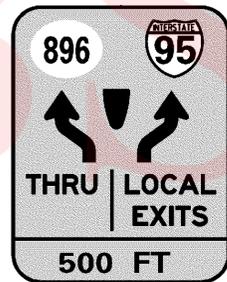


TYPICAL SECTION
 BRIDGE 1-703A
 N.T.S.



TYPICAL SECTION
 BRIDGE 1-703
 N.T.S.

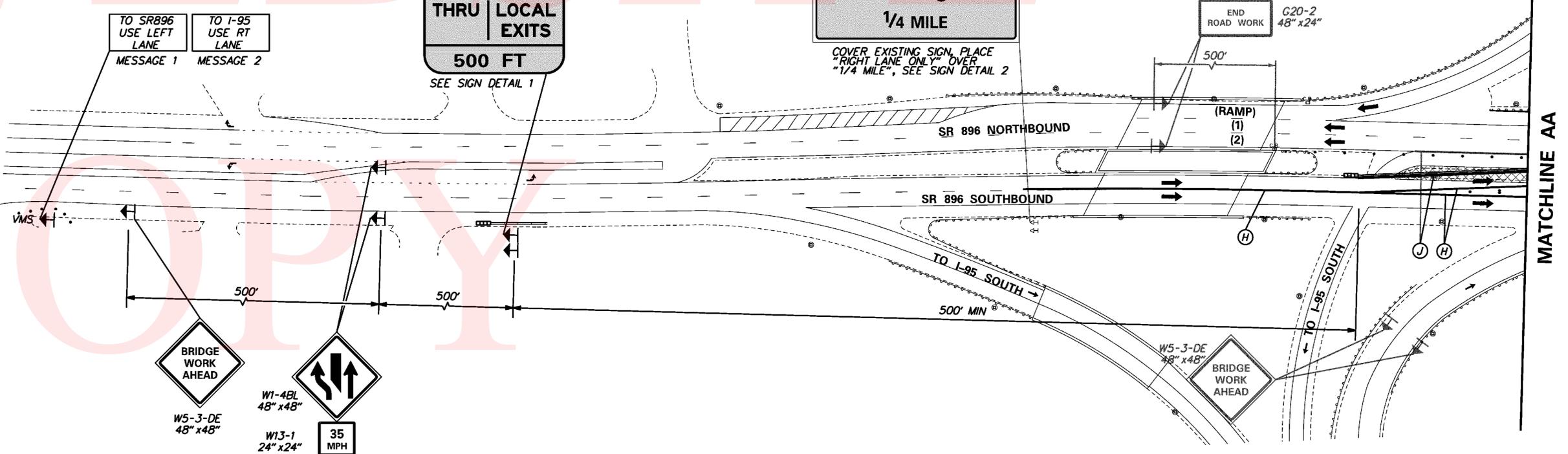
3. GALVANIZED TRANS.
 ITEM 720500 - BULLNOSE L.



COVER EXISTING SIGN, PLACE
 "RIGHT LANE ONLY" OVER
 "1/4 MILE", SEE SIGN DETAIL 2

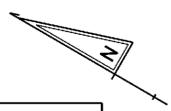
TO SR896
 USE LEFT
 LANE
 MESSAGE 1

TO I-95
 USE RT
 LANE
 MESSAGE 2



8/24/2012

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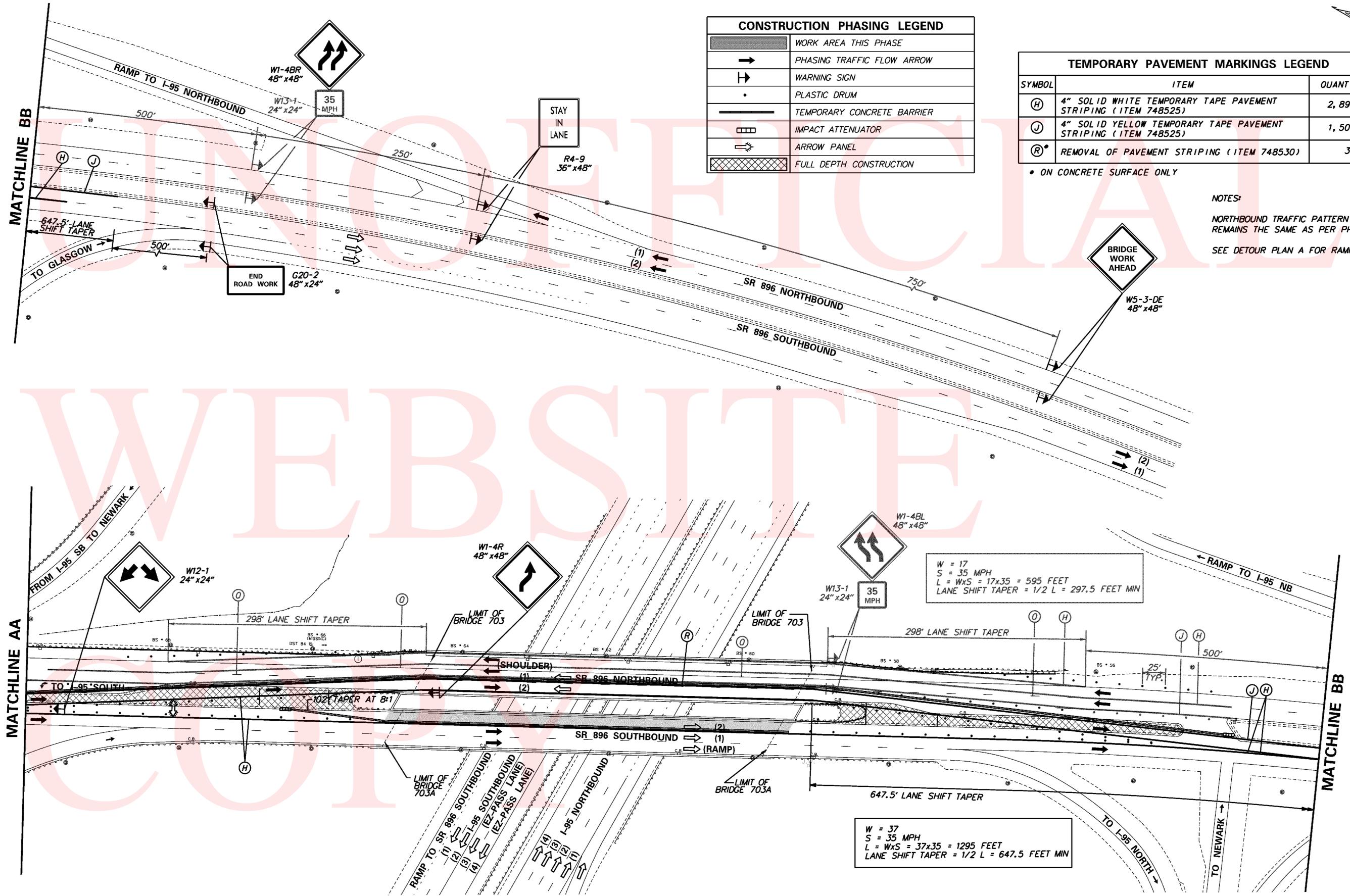


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	2,895 LF
(J)	4" SOLID YELLOW TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	1,503 LF
(R)	REMOVAL OF PAVEMENT STRIPING (ITEM 748530)	35 SF

• ON CONCRETE SURFACE ONLY

NOTES:
 NORTHBOUND TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 1C.
 SEE DETOUR PLAN A FOR RAMP CLOSURE.



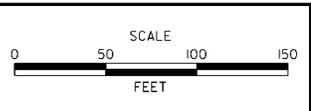
W = 17
 S = 35 MPH
 L = W x S = 17 x 35 = 595 FEET
 LANE SHIFT TAPER = 1/2 L = 297.5 FEET MIN

W = 37
 S = 35 MPH
 L = W x S = 37 x 35 = 1295 FEET
 LANE SHIFT TAPER = 1/2 L = 647.5 FEET MIN

8/24/2012

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ADDENDUMS / REVISIONS



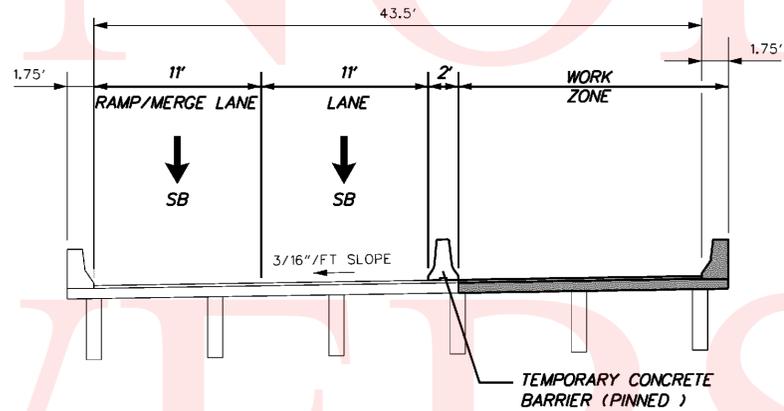
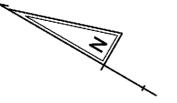
CONTRACT T201207402	BRIDGE NO. 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

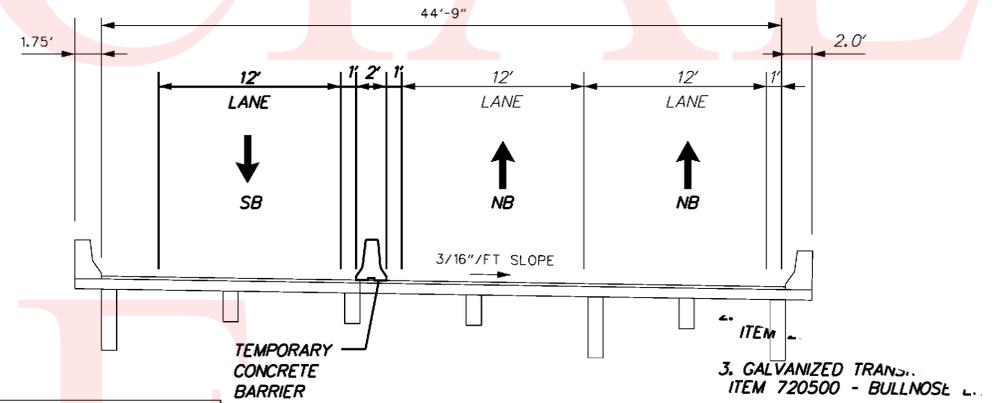
NOTES:

BRIDGE 1-703 TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 2A.

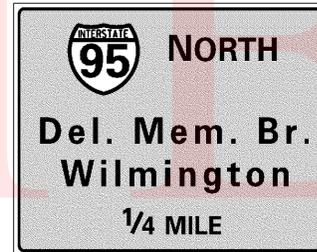
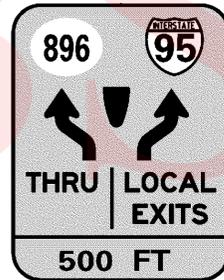
SEE DETOUR PLAN A FOR RAMP CLOSURE.



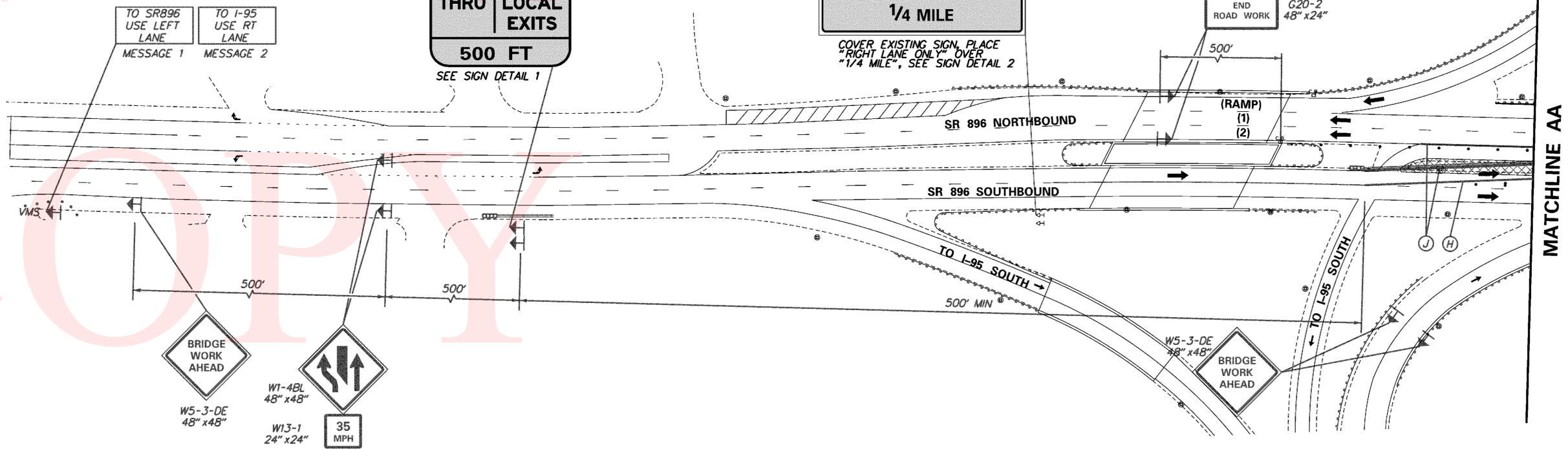
TYPICAL SECTION
BRIDGE 1-703A
N.T.S.



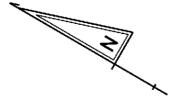
TYPICAL SECTION
BRIDGE 1-703
N.T.S.



COVER EXISTING SIGN, PLACE "RIGHT LANE ONLY" OVER "1/4 MILE", SEE SIGN DETAIL 2



8/24/2012
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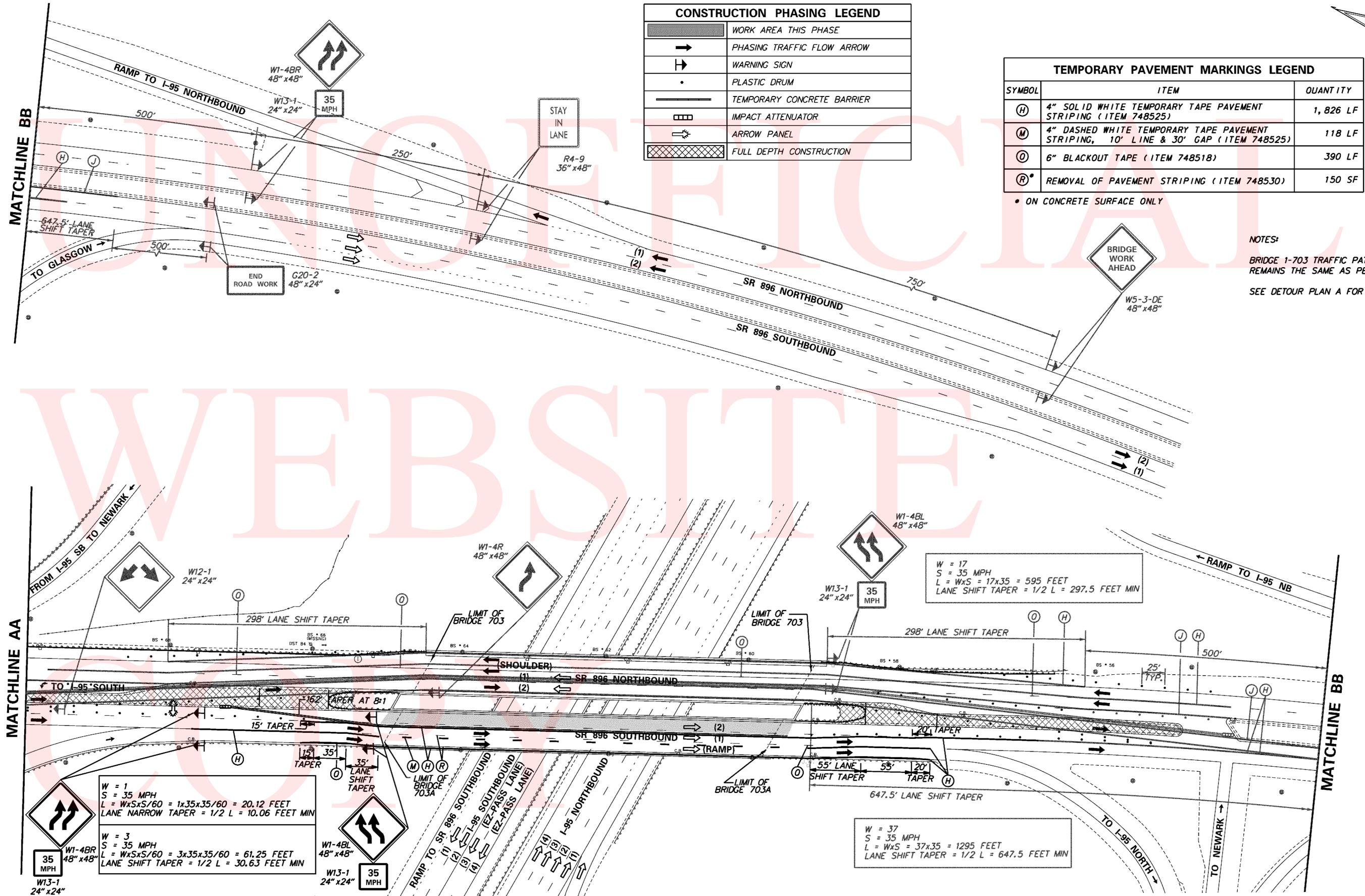


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	1,826 LF
(M)	4" DASHED WHITE TEMPORARY TAPE PAVEMENT STRIPING, 10' LINE & 30' GAP (ITEM 748525)	118 LF
(O)	6" BLACKOUT TAPE (ITEM 748518)	390 LF
(R)	REMOVAL OF PAVEMENT STRIPING (ITEM 748530)	150 SF

* ON CONCRETE SURFACE ONLY

NOTES:
 BRIDGE 1-703 TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 2A.
 SEE DETOUR PLAN A FOR RAMP CLOSURE.



$W = 1$
 $S = 35 \text{ MPH}$
 $L = W \times S \times S / 60 = 1 \times 35 \times 35 / 60 = 20.12 \text{ FEET}$
 LANE NARROW TAPER = $1/2 L = 10.06 \text{ FEET MIN}$

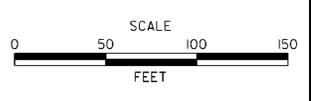
$W = 3$
 $S = 35 \text{ MPH}$
 $L = W \times S \times S / 60 = 3 \times 35 \times 35 / 60 = 61.25 \text{ FEET}$
 LANE SHIFT TAPER = $1/2 L = 30.63 \text{ FEET MIN}$

$W = 37$
 $S = 35 \text{ MPH}$
 $L = W \times S = 37 \times 35 = 1295 \text{ FEET}$
 LANE SHIFT TAPER = $1/2 L = 647.5 \text{ FEET MIN}$

$W = 17$
 $S = 35 \text{ MPH}$
 $L = W \times S = 17 \times 35 = 595 \text{ FEET}$
 LANE SHIFT TAPER = $1/2 L = 297.5 \text{ FEET MIN}$

8/24/2012
 ...:\Plans\ISBM_703_SB_Phase2B.dgn

ADDENDUMS / REVISIONS



CONTRACT	T201207402	BRIDGE NO.	1-703A
COUNTY	NEW CASTLE	DESIGNED BY:	LB
		CHECKED BY:	MAA

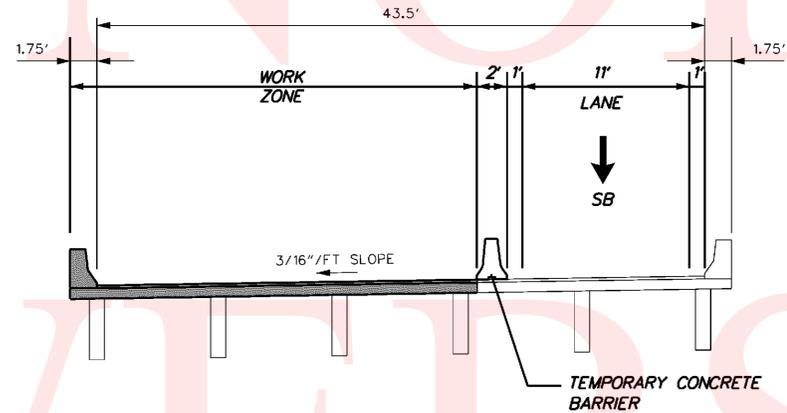
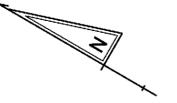
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	388 LF

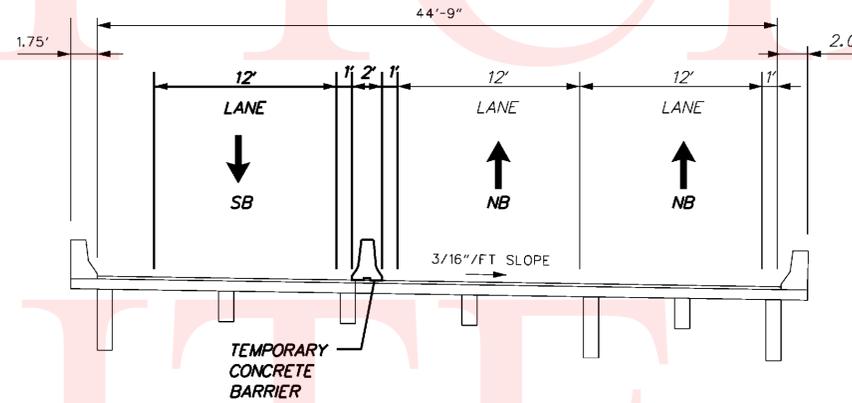
NOTES:

BRIDGE 1-703 TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 2A.

SEE DETOUR PLAN B FOR RAMP CLOSURE.

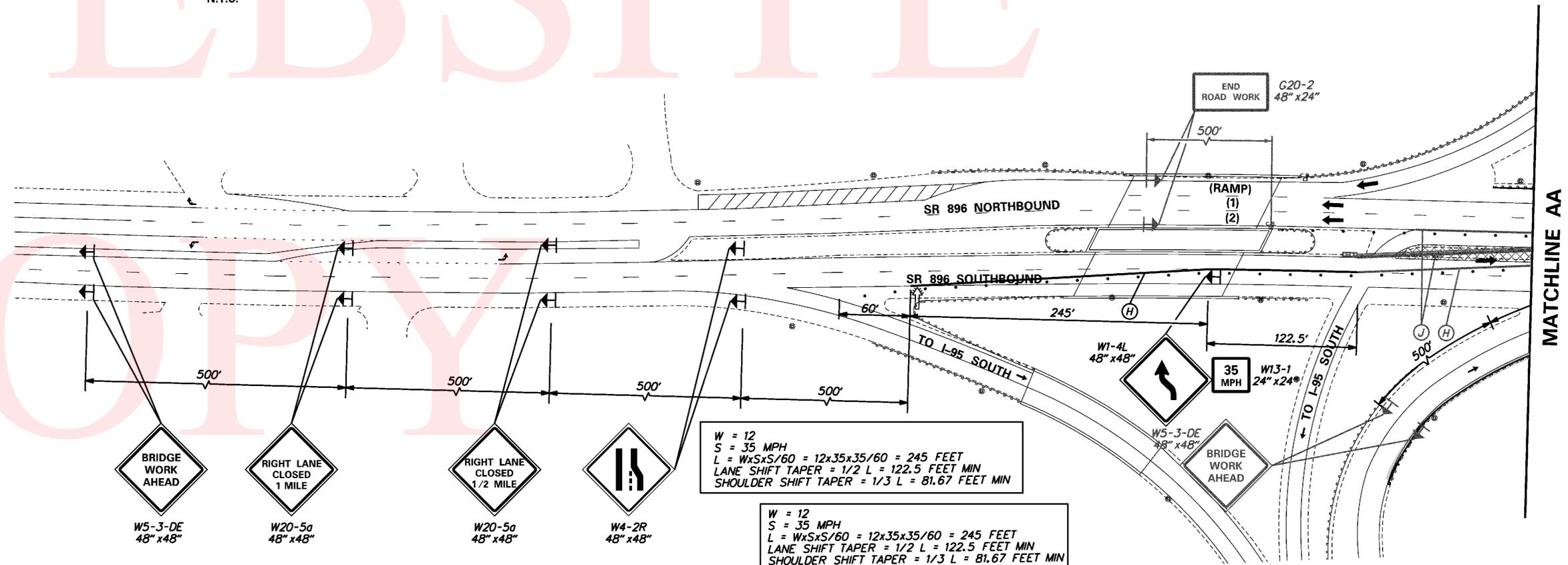


TYPICAL SECTION
BRIDGE 1-703A
N.T.S.



TYPICAL SECTION
BRIDGE 1-703
N.T.S.

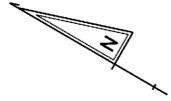
ITEM
3. GALVANIZED TRANS.
ITEM 720500 - BULLNOSE



W = 12
S = 35 MPH
L = $W \times S \times S / 60 = 12 \times 35 \times 35 / 60 = 245$ FEET
LANE SHIFT TAPER = $1/2 L = 122.5$ FEET MIN
SHOULDER SHIFT TAPER = $1/3 L = 81.67$ FEET MIN

W = 12
S = 35 MPH
L = $W \times S \times S / 60 = 12 \times 35 \times 35 / 60 = 245$ FEET
LANE SHIFT TAPER = $1/2 L = 122.5$ FEET MIN
SHOULDER SHIFT TAPER = $1/3 L = 81.67$ FEET MIN

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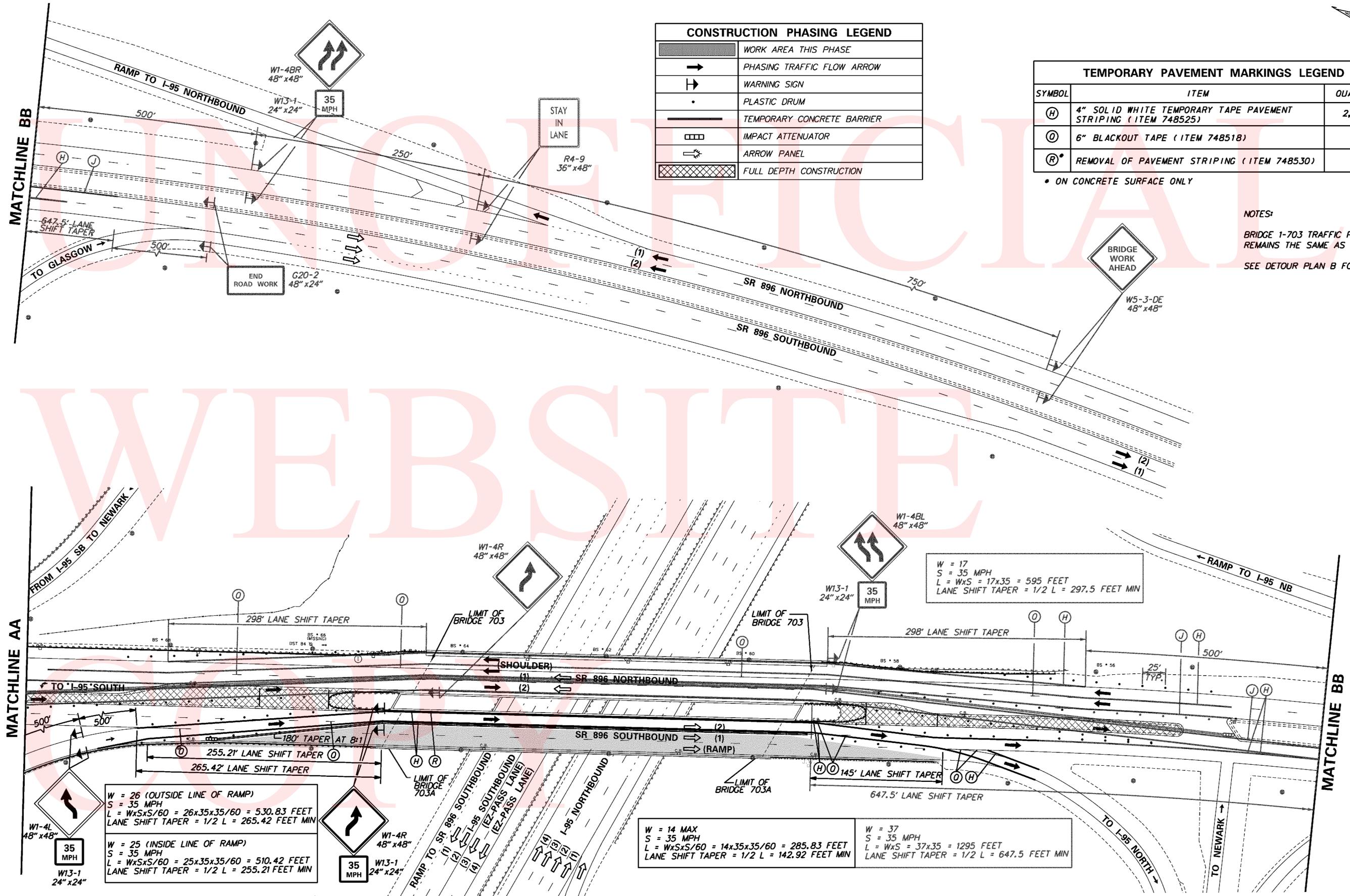


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	2,068 LF
(O)	6" BLACKOUT TAPE (ITEM 748518)	298 LF
(R)	REMOVAL OF PAVEMENT STRIPING (ITEM 748530)	138 SF

* ON CONCRETE SURFACE ONLY

NOTES:
 BRIDGE 1-703 TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 2A.
 SEE DETOUR PLAN B FOR RAMP CLOSURE.



W = 26 (OUTSIDE LINE OF RAMP)
 S = 35 MPH
 $L = W \times S \times S / 60 = 26 \times 35 \times 35 / 60 = 530.83$ FEET
 LANE SHIFT TAPER = $1/2 L = 265.42$ FEET MIN

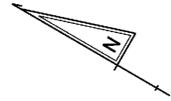
W = 25 (INSIDE LINE OF RAMP)
 S = 35 MPH
 $L = W \times S \times S / 60 = 25 \times 35 \times 35 / 60 = 510.42$ FEET
 LANE SHIFT TAPER = $1/2 L = 255.21$ FEET MIN

W = 14 MAX
 S = 35 MPH
 $L = W \times S \times S / 60 = 14 \times 35 \times 35 / 60 = 285.83$ FEET
 LANE SHIFT TAPER = $1/2 L = 142.92$ FEET MIN

W = 37
 S = 35 MPH
 $L = W \times S \times S / 60 = 37 \times 35 \times 35 / 60 = 1295$ FEET
 LANE SHIFT TAPER = $1/2 L = 647.5$ FEET MIN

W = 17
 S = 35 MPH
 $L = W \times S \times S / 60 = 17 \times 35 \times 35 / 60 = 595$ FEET
 LANE SHIFT TAPER = $1/2 L = 297.5$ FEET MIN

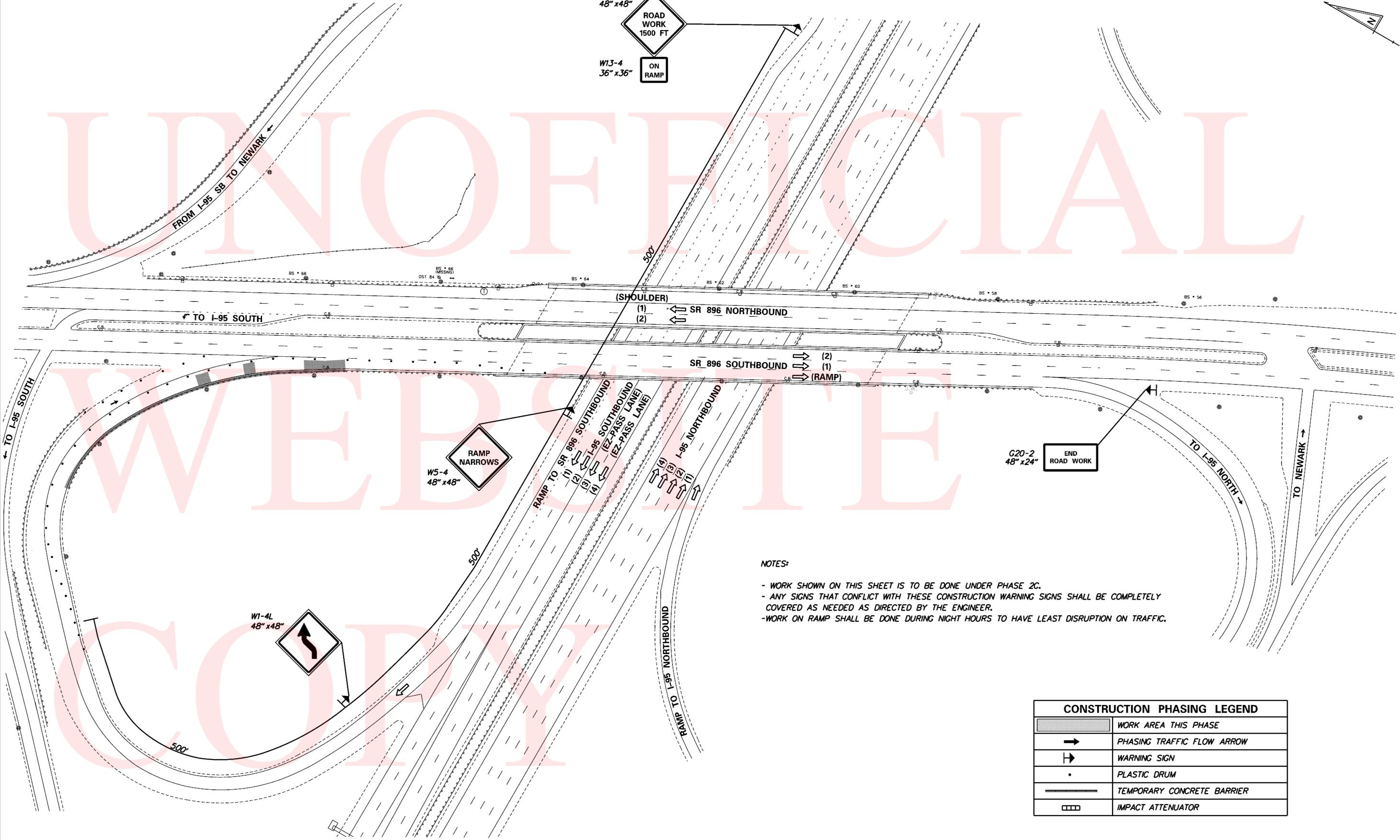
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W20-1
48" x 48"
ROAD WORK
1500 FT

W13-4
36" x 36"
ON RAMP

UNOFFICIAL



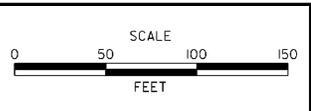
NOTES:

- WORK SHOWN ON THIS SHEET IS TO BE DONE UNDER PHASE 2C.
- ANY SIGNS THAT CONFLICT WITH THESE CONSTRUCTION WARNING SIGNS SHALL BE COMPLETELY COVERED AS NEEDED AS DIRECTED BY THE ENGINEER.
- WORK ON RAMP SHALL BE DONE DURING NIGHT HOURS TO HAVE LEAST DISRUPTION ON TRAFFIC.

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR

8/24/2012
...N:\SBM_703_SB_Ramp_Patch.dgn

ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	1-703
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

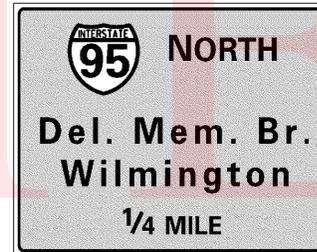
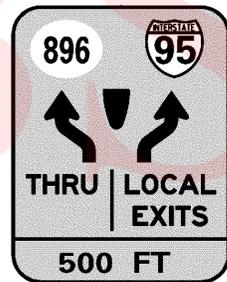
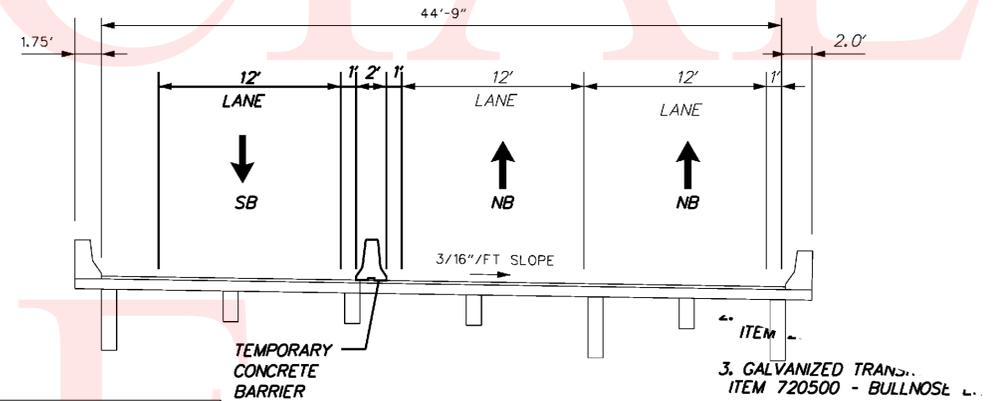
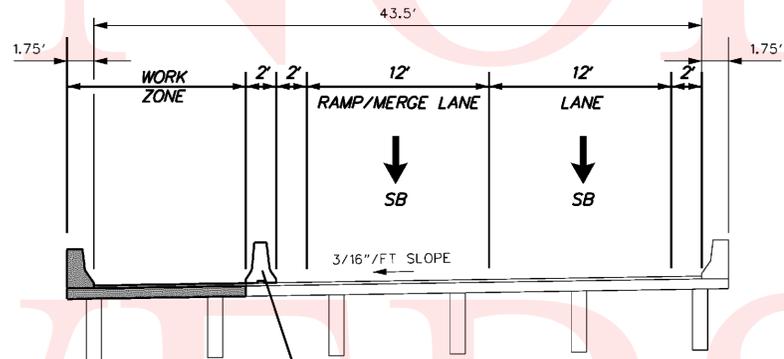
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR
	ARROW PANEL
	FULL DEPTH CONSTRUCTION

TEMPORARY PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(H)	4" SOLID WHITE TEMPORARY TAPE PAVEMENT STRIPING (ITEM 748525)	492 LF
(D)	6" BLACKOUT TAPE (ITEM 748518)	36 LF

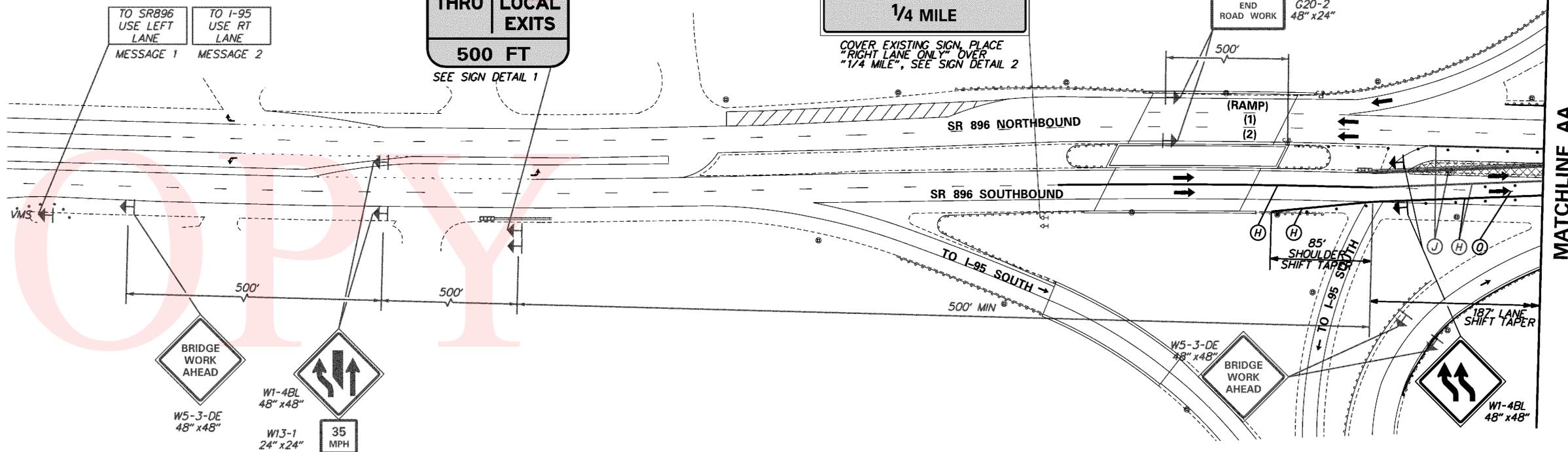
NOTES:

BRIDGE 1-703 TRAFFIC PATTERN REMAINS THE SAME AS PER PHASE 2A.

SEE DETOUR PLAN A FOR RAMP CLOSURE.



COVER EXISTING SIGN, PLACE "RIGHT LANE ONLY" OVER "1/4 MILE", SEE SIGN DETAIL 2



8/24/2012

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WORK ON I-95 MOT NOTES

1. USE TRAFFIC CONTROL DETAILS AS SHOWN FOR THIS LOCATION TO INSTALL ACCESS AND CONTAINMENT SYSTEM AND FOR BRIDGE PAINTING AS OUTLINED IN THE REPAIR NOTES AND DETAILS FOR THIS LOCATION.

2. USE SHOULDER CLOSURES AS DETAILED TO PERFORM REPAIRS TO BRIDGE SUBSTRUCTURE AND UNDERSIDE OF BRIDGE SUPERSTRUCTURE AS OUTLINED IN THE REPAIR NOTES AND DETAILS FOR THIS LOCATION.

3. ALL LANE CLOSURES ON I-95 SHALL BE RESTRICTED TO NIGHT HOURS AS NOTED:

BRIDGE 1-703 AND 703 A - WORK ON I-95 SOUTHBOUND

WORK LANE	MAINTENANCE OF TRAFFIC SET-UP	LANES CLOSED
OUTSIDE SHOULDER	TYPICAL APPLICATION 5B / RAMP DETOUR C	OUTSIDE SHOULDER / RAMP
RAMP	TYPICAL APPLICATION 37 / RAMP DETOUR C	OUTSIDE SHOULDER / RAMP / 1
1	SEE DETAIL SHEET / RAMP DETOUR C	OUTSIDE SHOULDER / RAMP / 1 / 2
2	SEE DETAIL SHEET / RAMP DETOUR C	OUTSIDE SHOULDER / RAMP / 1 / 2 / 3
3	SEE DETAIL SHEET	2 / 3 / 4 / MEDIAN SHOULDER
4	TYPICAL APPLICATION 37	3 / 4 / MEDIAN SHOULDER
MEDIAN SHOULDER	TYPICAL APPLICATION 5B	4 / MEDIAN SHOULDER

BRIDGE 1-703 AND 703 A - WORK ON I-95 NORTHBOUND

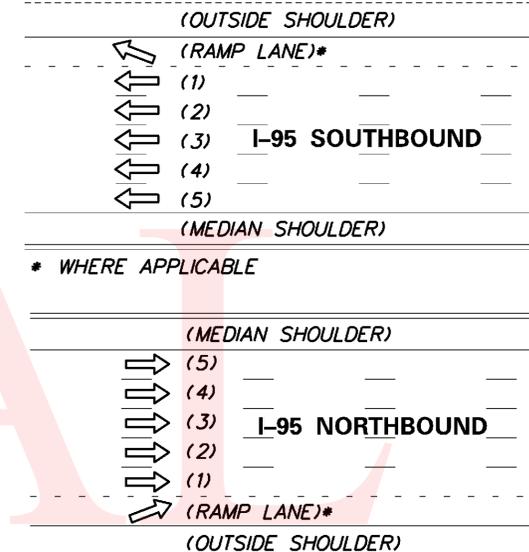
WORK LANE	MAINTENANCE OF TRAFFIC SET-UP	LANES CLOSED
OUTSIDE SHOULDER	TYPICAL APPLICATION 5A / RAMP DETOUR D / RAMP CLOSURE	OUTSIDE SHOULDER / RAMP
RAMP	TYPICAL APPLICATION 5B / RAMP DETOUR D / RAMP CLOSURE	OUTSIDE SHOULDER / RAMP / 1
1	SEE DETAIL SHEET / RAMP DETOUR D / RAMP CLOSURE	OUTSIDE SHOULDER / RAMP / 1 / 2
2	SEE DETAIL SHEET / RAMP DETOUR D / RAMP CLOSURE	OUTSIDE SHOULDER / RAMP / 1 / 2 / 3
3	SEE DETAIL SHEET	2 / 3 / 4 / MEDIAN SHOULDER
4	TYPICAL APPLICATION 37	3 / 4 / MEDIAN SHOULDER
MEDIAN SHOULDER	TYPICAL APPLICATION 5B	4 / MEDIAN SHOULDER

I-95 LANE AND RAMP RESTRICTIONS

ALLOWABLE LANE AND RAMP CLOSURES DURING SUMMER TIME PERIODS *				
SUMMER TIME PERIOD		3 LANES OPEN; 1 LANE CLOSED	2 LANES OPEN; 2 LANES CLOSED	1 LANES OPEN; 3 LANES CLOSED
SUNDAY PM THROUGH	BEGIN SETUP	9:00 PM	9:00 PM	9:00 PM
FRIDAY AM	END	5:00 AM	5:00 AM	5:00 AM
FRIDAY PM THROUGH	BEGIN SETUP	9:00 PM	10:00 PM	11:00 PM
SUNDAY AM	END	7:00 AM	7:00 AM	7:00 AM

* JUNE 3, 2013 THROUGH AUGUST 30, 2013

ALLOWABLE LANE AND RAMP CLOSURES DURING NON-SUMMER TIME PERIODS				
NON-SUMMER TIME PERIOD		3 LANES OPEN; 1 LANE CLOSED	2 LANES OPEN; 2 LANES CLOSED	1 LANES OPEN; 3 LANES CLOSED
SUNDAY PM THROUGH	BEGIN SETUP	7:00 PM	8:00 PM	9:00 PM
FRIDAY AM	END	5:00 AM	5:00 AM	5:00 AM
FRIDAY PM THROUGH	BEGIN SETUP	7:00 PM	8:00 PM	11:00 PM
SUNDAY AM	END	7:00 AM	7:00 AM	7:00 AM

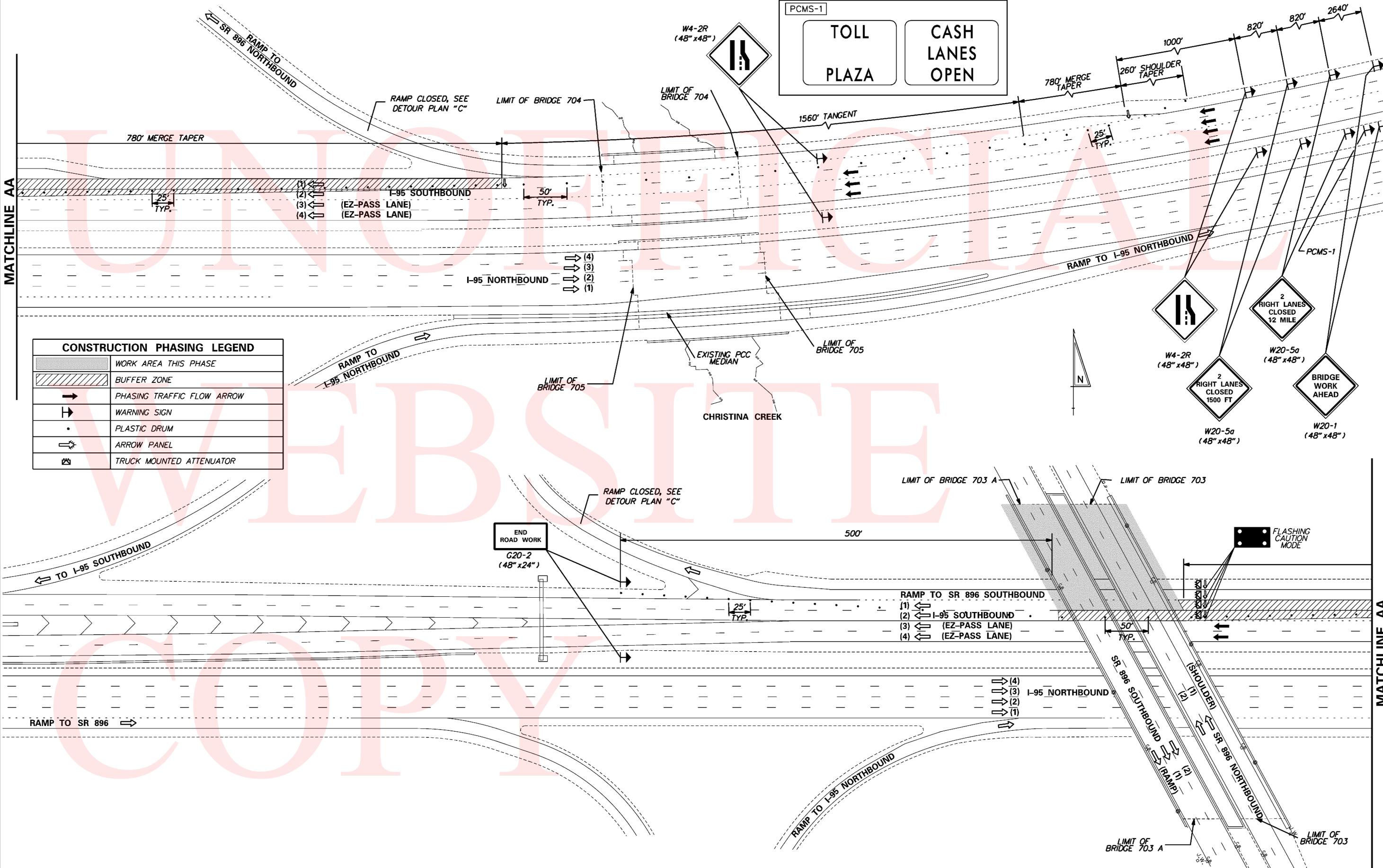


* WHERE APPLICABLE

SAMPLE LANE NUMBERING

8/24/2012

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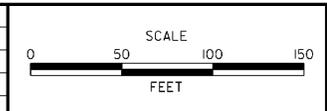


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

8/24/2012

...:\Plans\CS\ISBM_704_L1.ANE_1.dgn

ADDENDUMS / REVISIONS



CONTRACT	T201207402	BRIDGE NO.	1-703 & 1-703A
COUNTY	NEW CASTLE	DESIGNED BY:	LB
		CHECKED BY:	MAA

PCMS-1

TOLL
PLAZA

CASH
LANES
OPEN



CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

MATCHLINE AA

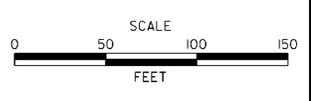
MATCHLINE AA

END ROAD WORK
G20-2
(48" x 24")

8/24/2012

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ADDENDUMS / REVISIONS



CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB CHECKED BY: MAA

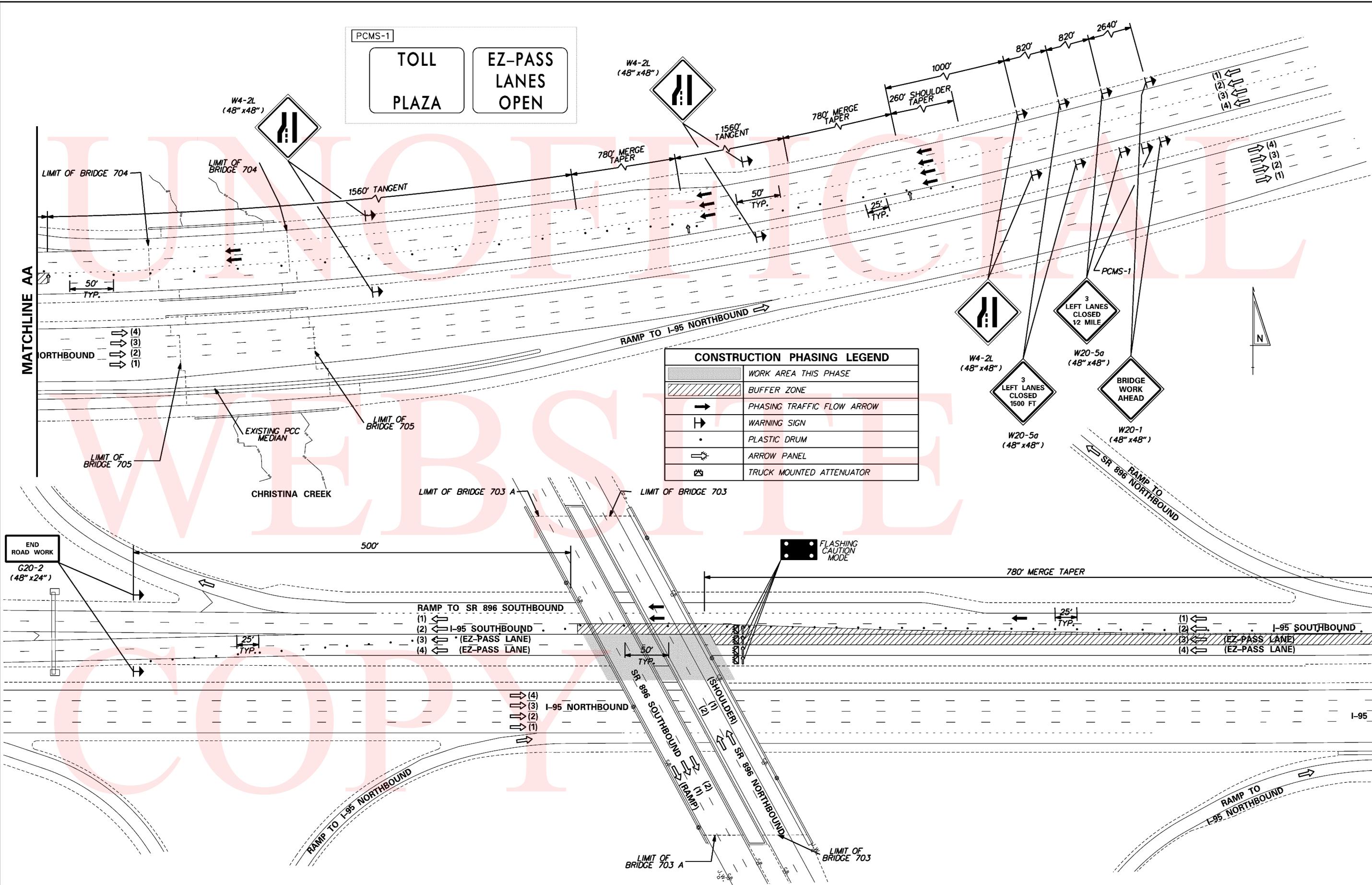
PCMS-1

TOLL PLAZA

EZ-PASS LANES OPEN



CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

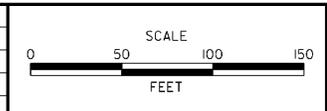


END ROAD WORK
G20-2
(48" x 24")

8/24/2012

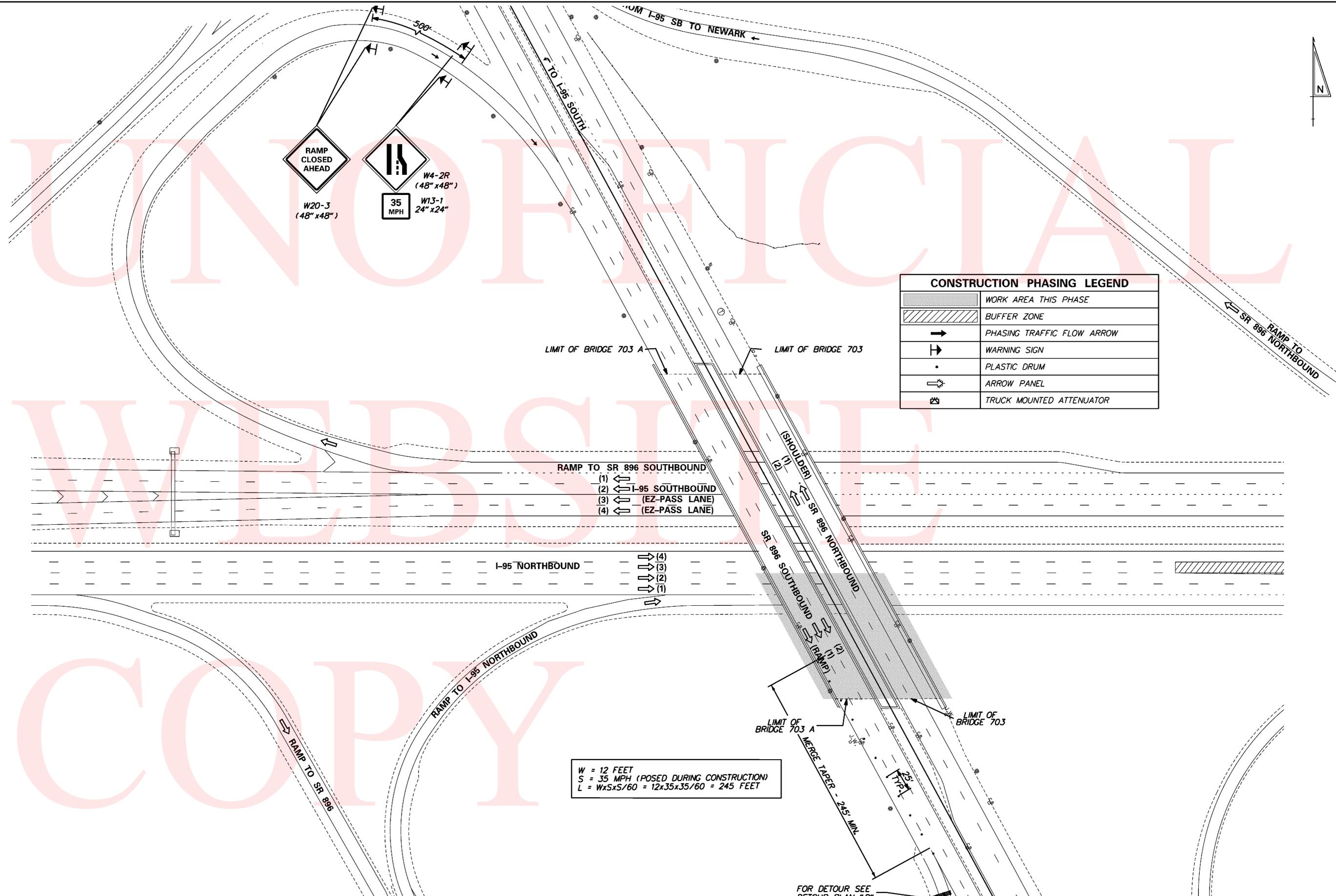
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ADDENDUMS / REVISIONS



CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

8/24/2012
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RAMP TO SR 896 SOUTHBOUND
 (1) ← I-95 SOUTHBOUND
 (2) ← (EZ-PASS LANE)
 (3) ← (EZ-PASS LANE)
 (4) ←

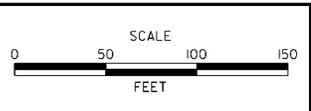
I-95 NORTHBOUND

W = 12 FEET
 S = 35 MPH (POSED DURING CONSTRUCTION)
 L = $W \times S / 60 = 12 \times 35 \times 35 / 60 = 245$ FEET

FOR DETOUR SEE
 DETOUR PLAN "D"

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

ADDENDUMS / REVISIONS



INTERSTATE BRIDGE MAINTENANCE, SOUTH

CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

CONSTRUCTION PHASING, M.O.T. CONTROL PLAN WORK ON I-95 NB RAMP TO I-95 NB CLOSURE

SHEET NO. 79
TOTAL SHTS. 89

MATCHLINE AA

MATCHLINE BB

I-95 SOUTHBOUND
I-95 SOUTHBOUND

(EZ-PASS LANE)
(EZ-PASS LANE)

1560' TANGENT

1100' "EXIT OPEN" SIGN

200' RAMP OPENING

450' RAMP TAPER

RAMP TO SP 896

EXIT
E5-1
(48" X 48")



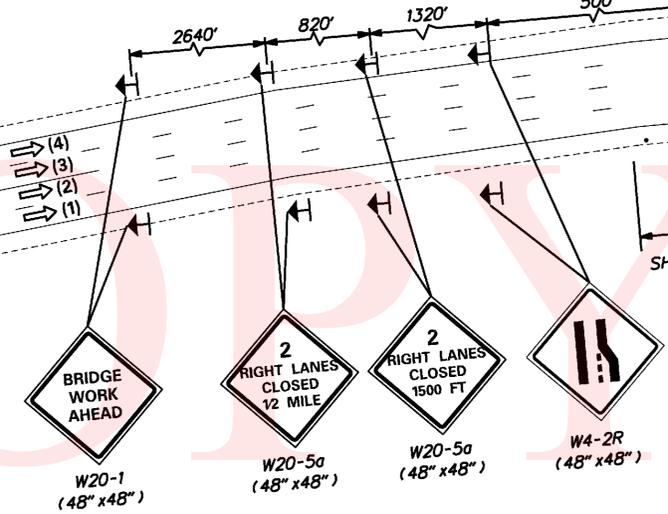
W4-2R
(48" x 48")

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR



MATCHLINE AA

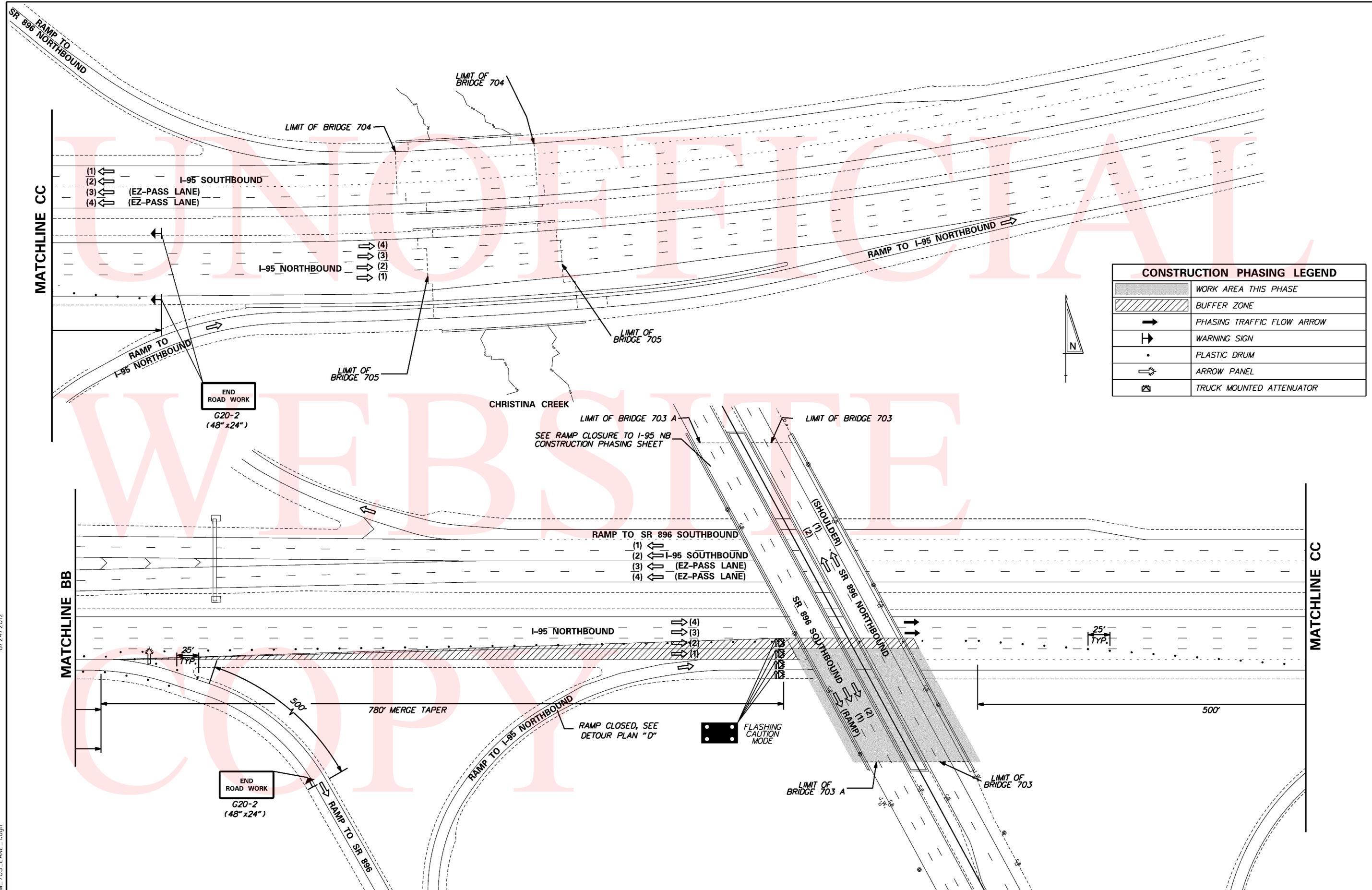
Z-PASS LANE)
Z-PASS LANE)
I-95 NORTHBOUND
(CASH LANE)
(CASH LANE)



780' MERGE TAPER

EXIT OPEN
E5-2
(48" x 24")

EXIT OPEN
E5-2
(48" x 24")



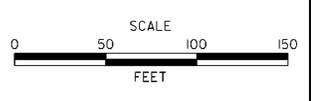
CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR



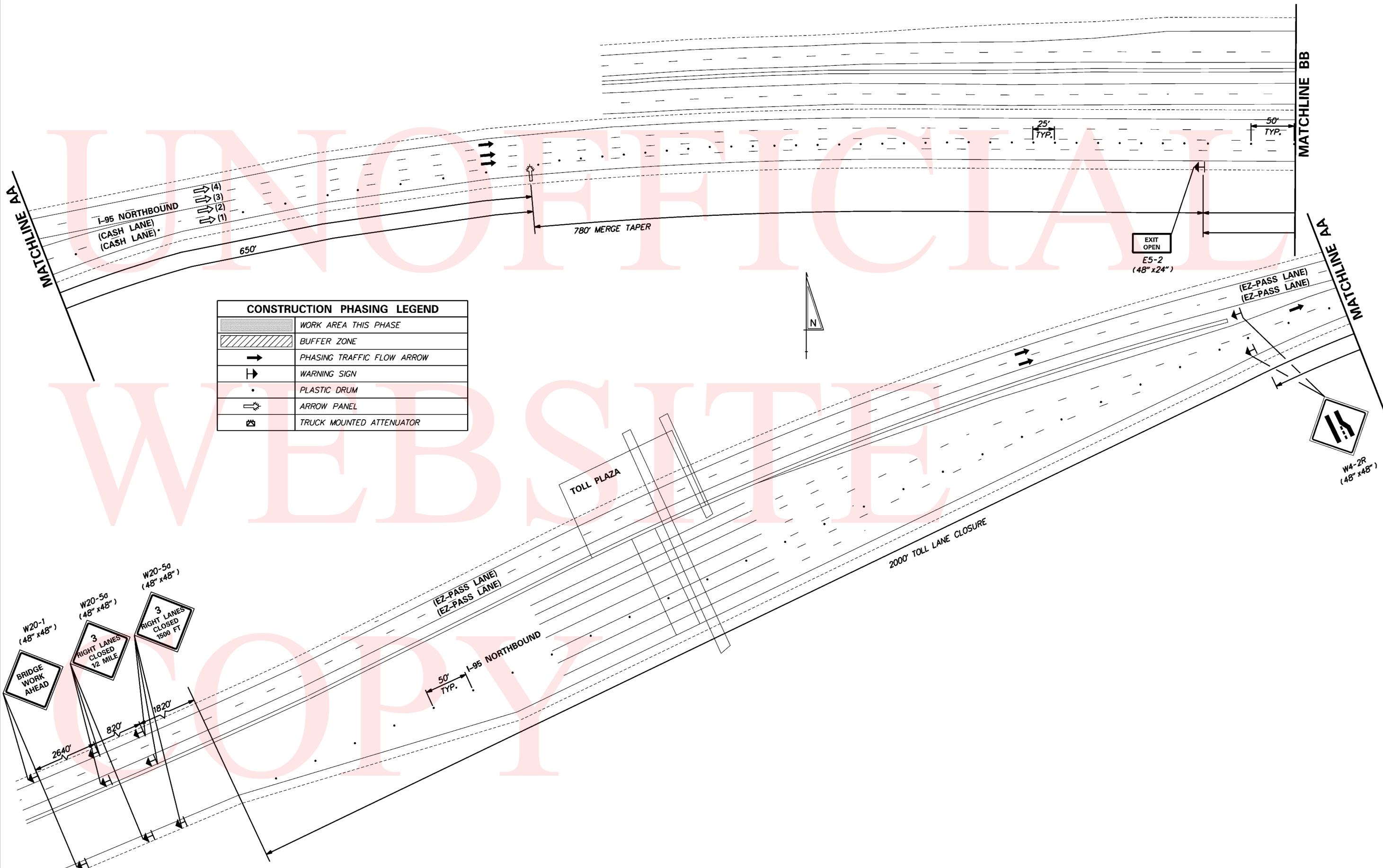
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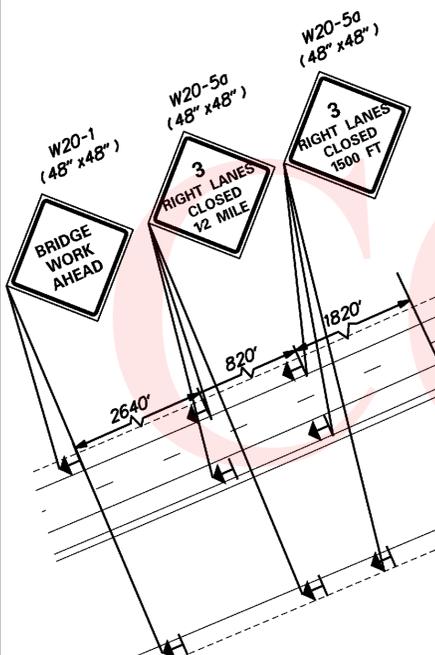
ADDENDUMS / REVISIONS



CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB
	CHECKED BY: MAA

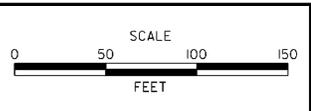


CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR



8/24/2012
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ADDENDUMS / REVISIONS	



CONTRACT	BRIDGE NO.	1-703 & 1-703A
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

LIMIT OF BRIDGE 703 A
SEE RAMP CLOSURE TO I-95 NB
CONSTRUCTION PHASING SHEET

LIMIT OF BRIDGE 703

RAMP TO SR 896 SOUTHBOUND
(1) ←
(2) ← I-95 SOUTHBOUND
(3) ← (EZ-PASS LANE)
(4) ← (EZ-PASS LANE)

(1) ←
(2) ←
(3) ← (EZ-PASS LANE)
(4) ← (EZ-PASS LANE)

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

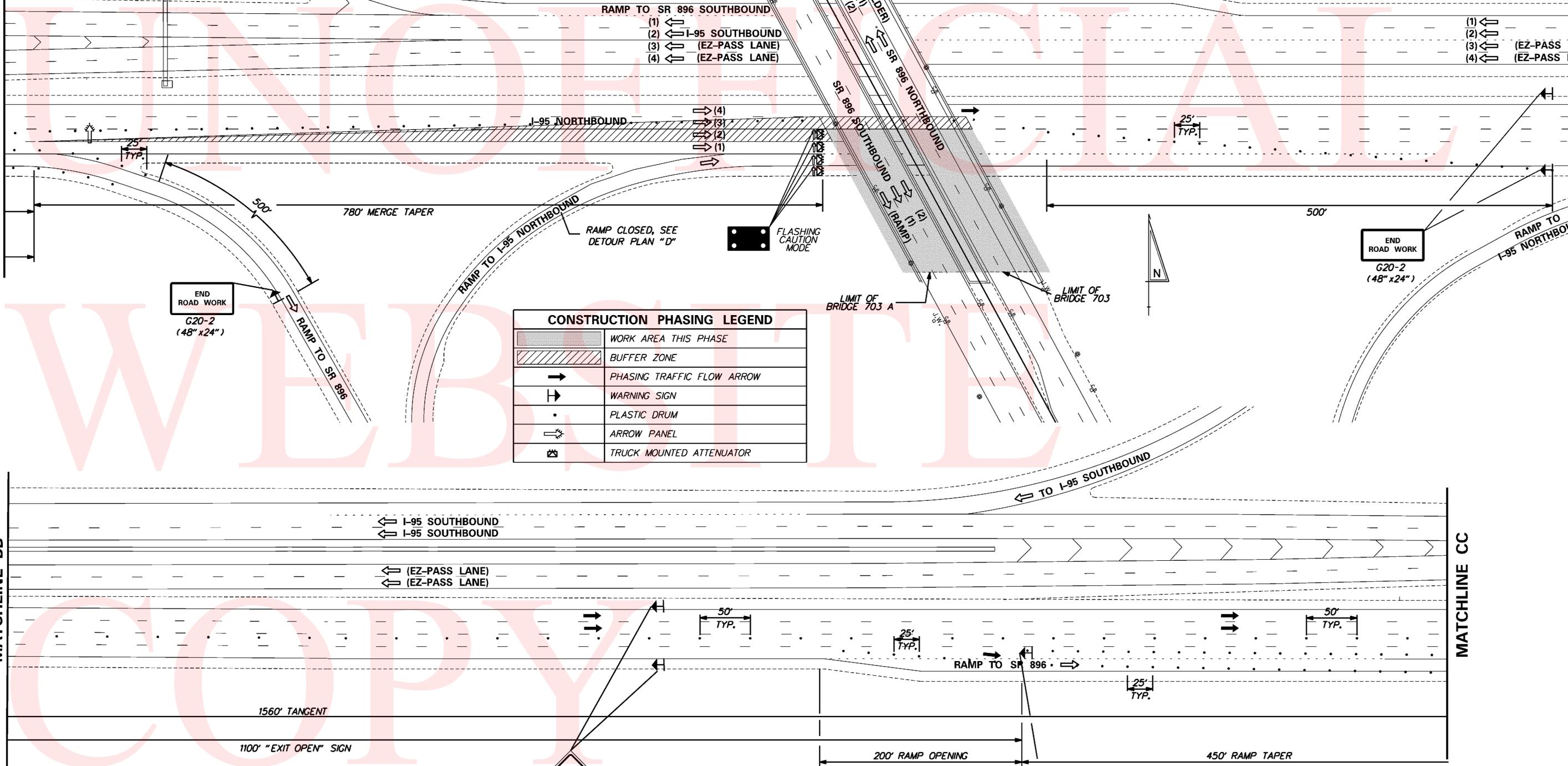
MATCHLINE CC

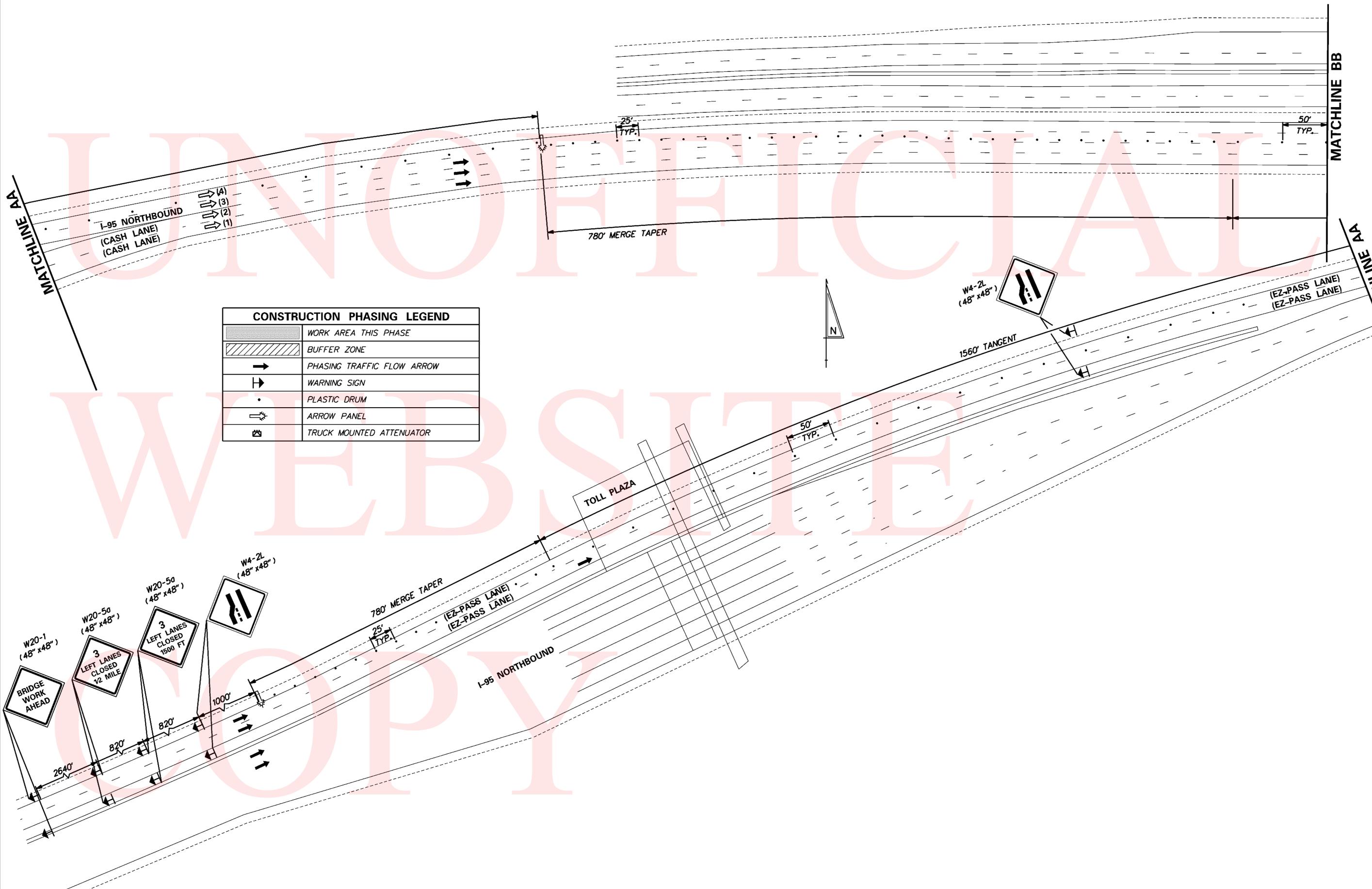
MATCHLINE BB

MATCHLINE CC

8/24/2012

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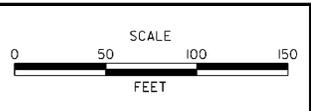




CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR

8/24/2012
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ADDENDUMS / REVISIONS	



CONTRACT	BRIDGE NO.	1-703 & 1-703A
T201207402	DESIGNED BY:	LB
COUNTY	CHECKED BY:	MAA
NEW CASTLE		

8/24/2012
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MATCHLINE CC

MATCHLINE BB

(1) ↑
 (2) ↑ (EZ-PASS LANE)
 (3) ↑ (EZ-PASS LANE)
 (4) ↑ (EZ-PASS LANE)

RAMP TO SR 896 SOUTHBOUND
 (1) ↑
 (2) ↑ I-95 SOUTHBOUND
 (3) ↑ (EZ-PASS LANE)
 (4) ↑ (EZ-PASS LANE)

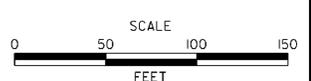
END ROAD WORK
 G20-2
 (48" x 24")

END ROAD WORK
 G20-2
 (48" x 24")

BRIDGE WORK AHEAD
 W20-1
 (48" x 48")

W4-2L
 (48" x 48")

CONSTRUCTION PHASING LEGEND	
	WORK AREA THIS PHASE
	BUFFER ZONE
	PHASING TRAFFIC FLOW ARROW
	WARNING SIGN
	PLASTIC DRUM
	ARROW PANEL
	TRUCK MOUNTED ATTENUATOR



INTERSTATE BRIDGE
 MAINTENANCE,
 SOUTH

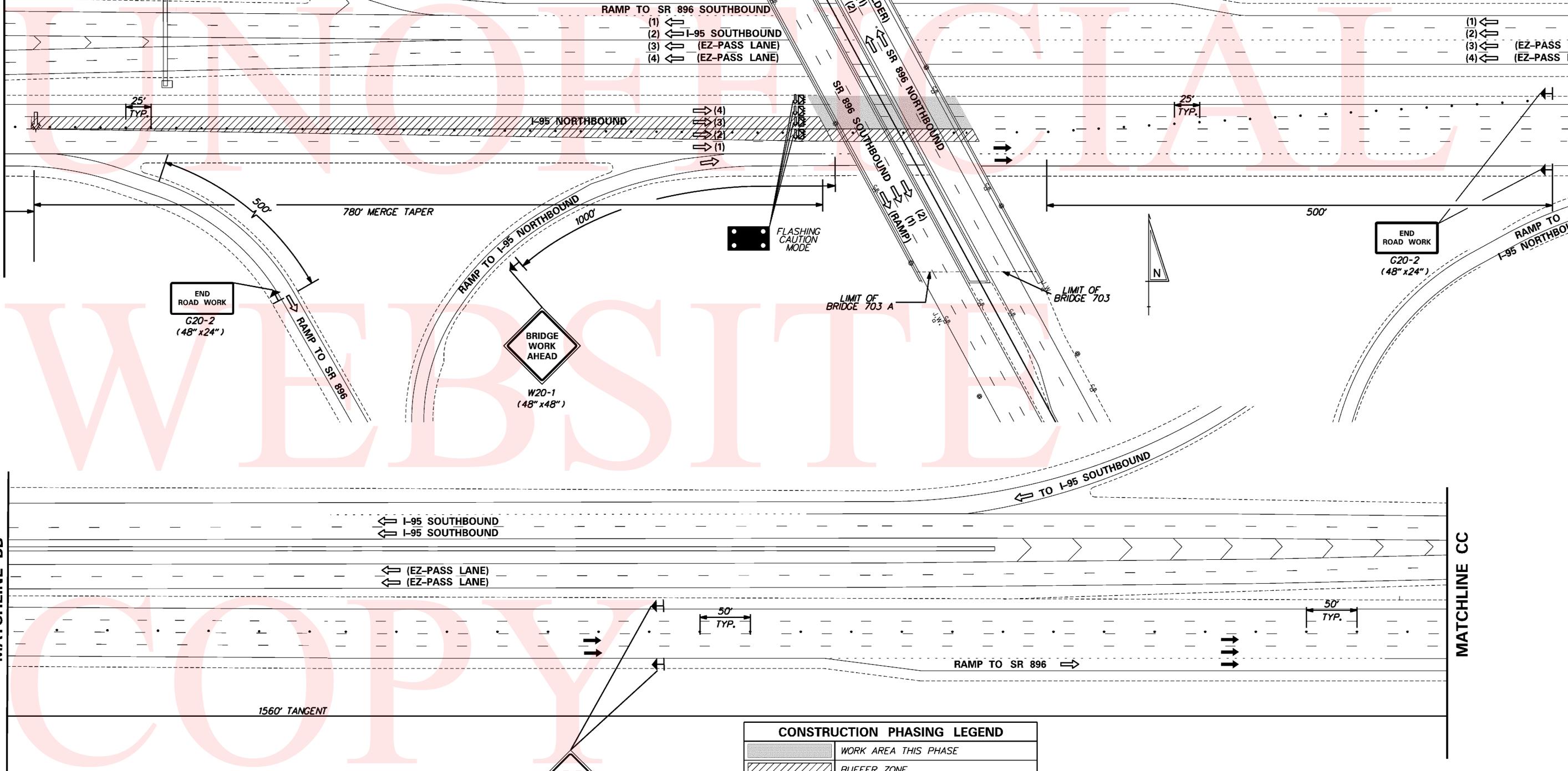
CONTRACT T201207402	BRIDGE NO. 1-703 & 1-703A
COUNTY NEW CASTLE	DESIGNED BY: LB CHECKED BY: MAA

CONSTRUCTION PHASING,
 M.O.T. CONTROL PLAN
 WORK ON I-95 NB
 LANE 3 WORK ZONE

SHEET NO. 85
TOTAL SHTS. 89

DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



CHANGEABLE MESSAGE BOARDS

PRIOR TO DETOUR
10 Days prior to beginning of detour

CMS-1
RAMP TO 896 NB CLOSING
STARTING XX/XX

CMS-2
RAMP TO I-95 SB CLOSING
STARTING XX/XX

CMS-1
DURING DETOUR
RAMP TO 896 NB CLOSED
FOLLOW DETOUR

CMS-2
RAMP TO I-95 SB CLOSED
FOLLOW DETOUR

SPECIAL NOTE



GENERAL NOTES

- ALL DETOUR SIGNING INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE-MUTC PART 6) FOR LIGHTS, BARRICADES AND SIGNS. (AS PER LATEST REVISION)
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL PREVAIL.
- SIGNS J THROUGH L AND P THROUGH R, THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
- WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SIGNING.
- "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: 02/25/2010
 RECOMMENDED _____ DATE: _____
 RECOMMENDED _____ DATE: _____
 APPROVED CHIEF SAFETY OFFICER _____ DATE: _____
 APPROVED TRAFFIC ENGINEER _____ DATE: _____

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUM / REVISIONS

NOT TO SCALE

INTERSTATE BRIDGE MAINTENANCE, SOUTH

CONTRACT T201207402	PERMIT NO.
COUNTY NEW CASTLE	DESIGNED BY: MT/LB
	CHECKED BY: MAA

DETOUR PLAN A (BR.1-703 & 1-703A) I-95 RAMP CLOSURE AT RT 896	SHEET NO. 86
	TOTAL SHTS. 89

8/25/2012
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CHANGEABLE MESSAGE BOARDS

PRIOR TO DETOUR

(10 Days prior to beginning of detour)

CMS-1	RAMP TO 896 NB CLOSING	STARTING XXXX
CMS-2	RAMP TO I-95 SB CLOSING	STARTING XXXX
CMS-3	RAMP TO I-95 NB CLOSING	STARTING XXXX

CMS-1	DURING DETOUR	RAMP TO 896 NB CLOSED	FOLLOW DETOUR
CMS-2	RAMP TO I-95 SB CLOSED	FOLLOW DETOUR	
CMS-3	RAMP TO I-95 NB CLOSED	FOLLOW DETOUR	

SPECIAL NOTE

U	V	W	X	Y
1	2	3	4	5

NOTES:
 RAMP SR 896 SOUTHBOUND TO I-95 NORTHBOUND IS CLOSED PARTIALLY. TRAFFIC MOVEMENTS FROM I-95 SOUTHBOUND TO SR 896 SOUTHBOUND AND I-95 SOUTHBOUND TO I-95 NORTHBOUND U-TURN ARE ALLOWED. FOR MORE INFO SEE MOT PLANS.



A		B		C	
D		E		F	
G		H		I	
J		K		L	
M		N		O	
P		Q		R	
S		T			

GENERAL NOTES

- ALL DETOUR SIGNING INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE TO THE DE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE-MUTCD PART 6) FOR LIGHTS, BARRICADES AND SIGNS. (AS PER LATEST REVISION)
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES WILL PREVAIL.
- SIGNS J THROUGH L AND P THROUGH R, THE WORD (ROAD) SHOULD BE CHANGED TO RAMP, R/R OR BRIDGE WHERE APPLICABLE.
- WARNING SIGNS SHOULD BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT SIGNING.
- "S" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED <i>Harold O'Neil</i> DATE: 02/25/2010	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____
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PORTABLE CHANGEABLE MESSAGE SIGNS

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

RAMPS TO RT 896 CLOSING

AT NIGHT STARTING XXXX

DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-1

RAMPS TO SR 896 CLOSED

FOLLOW DETOUR

PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-2

195 RAMP TO RT896 CLOSING

AT NIGHT STARTING XXXX

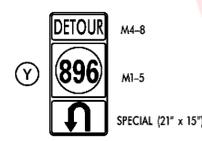
DURING DETOUR
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

195 RAMP TO RT896 CLOSED

FOLLOW DETOUR

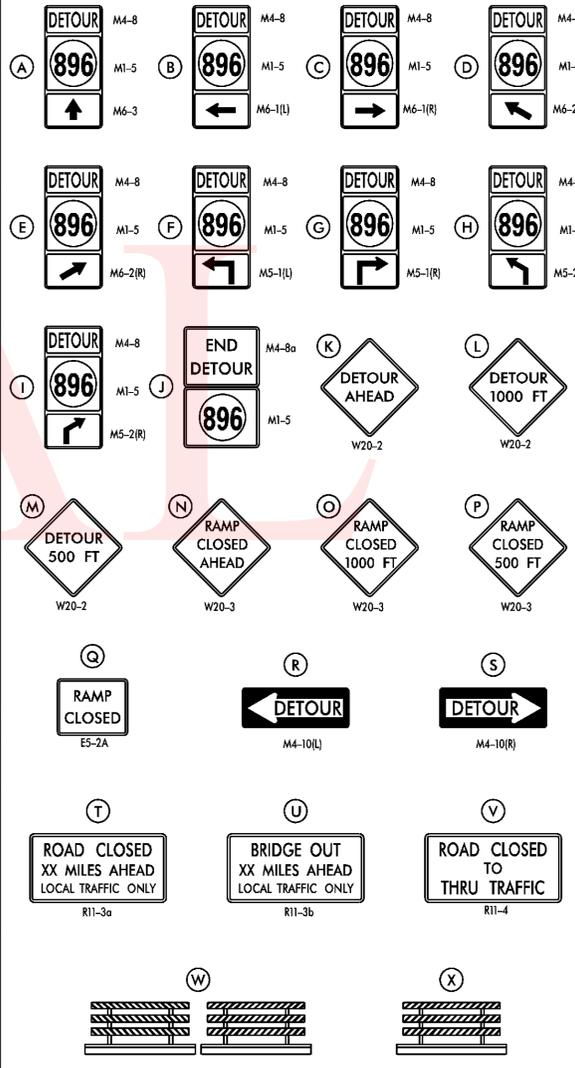
SPECIAL SIGNS



- NOTE:**
- ENTIRE LENGTH OF DECELERATION LANES FOR BOTH RAMPS SHALL BE CLOSED WITH PLASTIC DRUMS.
 - TRAFFIC OFFICER SHALL BE PLACED BEHIND BARRICADES EACH NIGHT OF CLOSURE.



LEGEND



GENERAL NOTES

- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
- DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
- SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
- THE COLORS, DIMENSIONS, AND CHARACTERISTICS OF ALL INTERSTATE, U.S. ROUTE, AND STATE ROUTE SHIELD SIGNS SHALL BE IN ACCORDANCE WITH SECTION 2D.11 OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
- SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
- WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
- "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	RECOMMENDED _____ DATE: _____	APPROVED CHIEF SAFETY OFFICER _____ DATE: _____	APPROVED TRAFFIC ENGINEER _____ DATE: _____
ADDENDUM / REVISIONS _____ _____ _____			INTERSTATE BRIDGE MAINTENANCE, SOUTH CONTRACT: T201207402 COUNTY: NEW CASTLE PERMIT NO.: X DESIGNED BY: LB CHECKED BY: MAA	
DELAWARE DEPARTMENT OF TRANSPORTATION			DETOUR PLAN C (BR.1-703 & 1-703A) I-95 TO RT 896 RAMP CLOSURES	
NOT TO SCALE			SHEET NO. 88 TOTAL SHTS. 89	

P:\1559 BRIDGE DESIGN\5 - I-95 SOUTH PSE PLANS\PSE SUBMITTAL\PLANS\DETOUR_BR_703C.DGN

