MSE WALL NOTES:

1. DESIGN CRITERIA
   PROPRIETARY MSE WALLS SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
   -2007 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, INCLUDING 2008 AND 2009 INTERIMS
   -2005 DELDOT BRIDGE DESIGN MANUAL
   -FEDERAL HIGHWAY ADMINISTRATION PUBLICATION NO. FHWA-NHI-00-043, "MECHANICALLY STABLIZED EARTH WALLS AND REINFORCED SOIL SLOPES DESIGN AND CONSTRUCTION GUIDE".

2. CONCRETE
   ALL CONCRETE PROPERTIES SHALL BE IN ACCORDANCE WITH SECTION 812 OF THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

   CLASS A - MSE WALL PANELS AND PARAPETS (f'c=4,500 PSI).

   CLASS B - MSE WALL LEVELING PAD (f'c=3,000 PSI).

   CLASS D - MOMENT SLABS (f'c=4,500 PSI).

   ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¾", UNLESS NOTED OTHERWISE.

3. REINFORCING STEEL
   ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM A615), GRADE 60 AND SHALL BE PROTECTED WITH FUSION BONDED EPOXY, CONFORMING TO AASHTO M 284 (ASTM A775).

4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS NOTED OTHERWISE.

   THE MSE WALL MANUFACTURER MAY SUBSTITUTE ALTERNATE REINFORCING CONFIGURATIONS AND SUBMIT FOR APPROVAL.

5. ARCHITECTURAL FINISH
   COMPONENTS OF THE MSE WALL SHALL HAVE THE ARCHITECTURAL TREATMENT AS SPECIFIED IN THE SPECIAL PROVISION FOR ITEM 602772.

6. LEVELING PAD
   THE LEVELING PAD STEPS MAY BE RELOCATED AT THE DISCRETION OF THE PROPRIETARY WALL MANUFACTURER PROVIDED THAT THE MINIMUM EMBEDMENT IS MAINTAINED IN ACCORDANCE WITH THE SPECIFIED DESIGN CRITERIA. ANY CHANGES TO THE STEP LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

7. BACKFILL AND FOUNDATION SOILS
   MSE WALL BACKFILL SHALL CONSIST OF SELECT BACKFILL AND MEET THE REQUIREMENTS PROVIDED IN THE SPECIAL PROVISIONS. FOR ADDITIONAL REQUIREMENTS OF MSE WALL BACKFILL AND FOUNDATION SOILS, SEE SOIL PROPERTIES TABLE ON THIS SHEET.

8. INTERNAL STABILITY
   THE INTERNAL STABILITY OF THE MSE WALL SHALL BE DESIGNED BY THE PROPRIETARY WALL MANUFACTURER USING THE SOIL PROPERTIES PROVIDED AT EACH WALL LOCATION. THE INTERNAL STABILITY CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELEWARE AS INDICATED IN THE PROJECT SPECIFICATIONS.

9. SETTLEMENT REQUIREMENTS
   THE CONTRACTOR AND MSE WALL MANUFACTURER SHALL DESIGN AND CONSTRUCT THE FINAL WALL FACING SUCH THAT THE THE FINAL WALL FACING IS AT THE REQUIRED ELEVATIONS AFTER SETTLEMENT IS ACHIEVED. THE ANTICIPATED SETTLEMENT IS 4 INCHES AT THE FACE OF THE WALL.

10. SERVICE LIFE
    ALL RETAINING WALL COMPONENTS SHALL BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 100 YEARS.

11. WALL SYSTEM
    ONLY ONE WALL SYSTEM MAY BE USED ON THIS PROJECT.

12. TRAFFIC BARRIER JOINTS
    TRAFFIC BARRIER FOOTING / MOMENT SLABS SHALL HAVE CONSTRUCTION JOINTS TO COINCIDE WITH THE PARAPET AND ROADWAY PAVEMENT JOINTS.

13. EXPANSION AND CONTRACTION JOINTS
    THE LOCATION OF THE EXPANSION AND CONTRACTION JOINTS IN THE BARRIER / MOMENT SLAB SHOWN ON THE PLANS ARE LOCATED TO ALIGN WITH ROADWAY PAVEMENT JOINTS. ANY CHANGE TO THESE JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

14. COORDINATION
    CONTRACTOR AND PROPRIETARY WALL MANUFACTURER SHALL COORDINATE LOCATIONS OF DRAINAGE INLETS AND PIPES WITH LOCATIONS OF PROPRIETARY WALL TIE BACK SYSTEM AND MOMENT SLAB.

SOIL PROPERTIES

SOIL TYPE	UNIT WEIGHT (PCF)	DRAINED ANGLE OF FRICTION (DEGREES)	UNDRAINED SHEAR (PSF)
SELECT BACKFILL	125	34° (MIN.)	0
IN-SITU FOUNDATION SOIL	120	30°	0
RETAINED FILL	120	30°	0

QUANTITY SUMMARY

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
302012	DELAWARE NO. 57 STONE	TON	380
602017	PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A	CY	130
602018	PORTLAND CEMENT CONCRETE MASONRY, CLASS D	CY	610
604000	BAR REINFORCEMENT, EPOXY COATED	LB	103,410
602772	MECHANICALLY STABILIZED EARTH WALLS	LS	1
760015	RUMBLE STRIPS, CONCRETE, SHALLOW DEPTH	LF	930

RETAINING WALL RW1-3R INDEX OF SHEETS

SHEET NO.	DWG. NO.	TABLE OF CONTENTS
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328	GL-01	GEOMETRIC LAYOUT
329	PE-01	GENERAL PLAN AND ELEVATION - 1
330	PE-02	GENERAL PLAN AND ELEVATION - 2
331	PE-03	GENERAL PLAN AND ELEVATION - 3
332	PE-04	GENERAL PLAN AND ELEVATION - 4
333	PE-05	GENERAL PLAN AND ELEVATION - 5
334	PE-06	GENERAL PLAN AND ELEVATION - 6
335	PE-07	GENERAL PLAN AND ELEVATION - 7
336	RD-01	MSE WALL TYPICAL SECTION
337	MS-01	MOMENT SLAB PLAN - 1
338	MS-02	MOMENT SLAB PLAN - 2
339	MS-03	MOMENT SLAB PLAN - 3
340	MS-04	MOMENT SLAB PLAN - 4
341	MS-05	MOMENT SLAB PLAN - 5
342	MS-06	MOMENT SLAB PLAN - 6
343	MS-07	MOMENT SLAB PLAN - 7
344	MS-08	MOMENT SLAB REINFORCEMENT DETAILS - 1
345	MS-09	MOMENT SLAB REINFORCEMENT DETAILS - 2
346	MS-10	MOMENT SLAB REINFORCEMENT DETAILS - 3
347	MS-11	MOMENT SLAB REINFORCEMENT DETAILS - 4
348	MS-12	MOMENT SLAB REINFORCEMENT SECTION DETAILS - 1
349	MS-13	MOMENT SLAB REINFORCEMENT SECTION DETAILS - 2
350	MS-14	MOMENT SLAB MODIFICATION DETAILS - 1
351	MS-15	MSE WALL COPING DETAILS
352	BR-01	MOMENT SLAB REINFORCEMENT BAR LIST
353	BO-01	BORING PROFILE - 1
354	BO-02	BORING PROFILE - 2
355	BO-03	BORING PROFILE - 3
356	BO-04	BORING PROFILE - 4
357	BO-05	BORING PROFILE - 5
358	BO-06	BORING PROFILE - 6
359	BO-07	BORING PROFILE - 7

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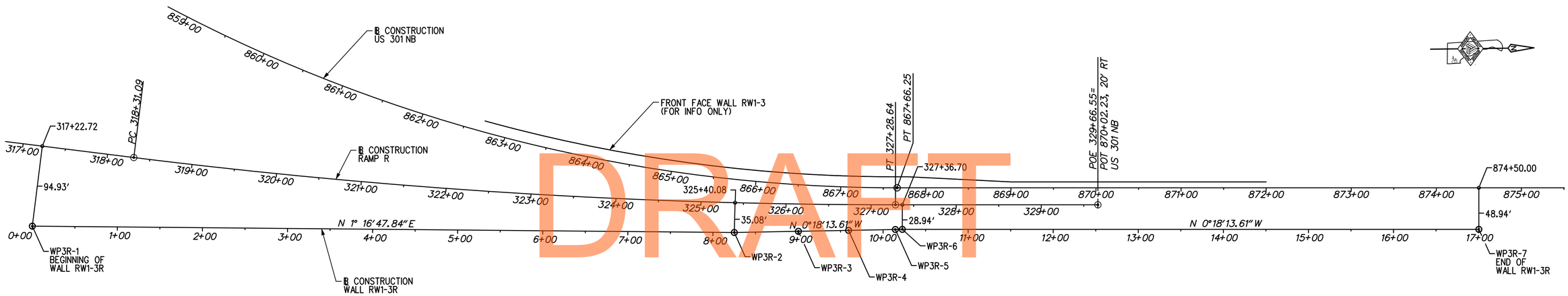
AUGUST 2015



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AUGUST 2015

GEOMETRIC LAYOUT PLAN
SCALE: 1" = 60'-0"

WORKING POINT COORDINATES			
WORKING POINT	BL CONSTRUCTION WALL RW1-3R	COORDINATES	
		NORTHING	EASTING
WP3R-1	STA. 0+00.00	556930.1167	590579.9539
WP3R-2	STA. 8+25.12	557755.0259	590598.3850
WP3R-3	STA. 9+00.46	557830.3650	590597.9856
WP3R-4	STA. 9+59.46	557889.3642	590597.6727
WP3R-5	STA. 10+14.46	557944.3634	590597.3811
WP3R-6	STA. 10+22.66	557952.5728	590597.3376
WP3R-7	STA. 17+00.28	558630.1325	590606.3367

NOTES:

1. THE BL CONSTRUCTION WALL RW1-3R IS ALONG FRONT FACE OF MSE WALL PANELS.
2. FOR WALL RW1-3R PLAN AND ELEVATIONS, SEE DWG. NOS. PE-01 THROUGH PE-07.
3. WP3R-1 AND WP3R-6 OFFSETS ARE PERPENDICULAR TO BL CONSTRUCTION RAMP R.
4. WP3R-2 OFFSET IS RADIAL TO BL CONSTRUCTION RAMP R.
5. WP3R-7 OFFSET IS PERPENDICULAR TO BL CONSTRUCTION US 301NB.

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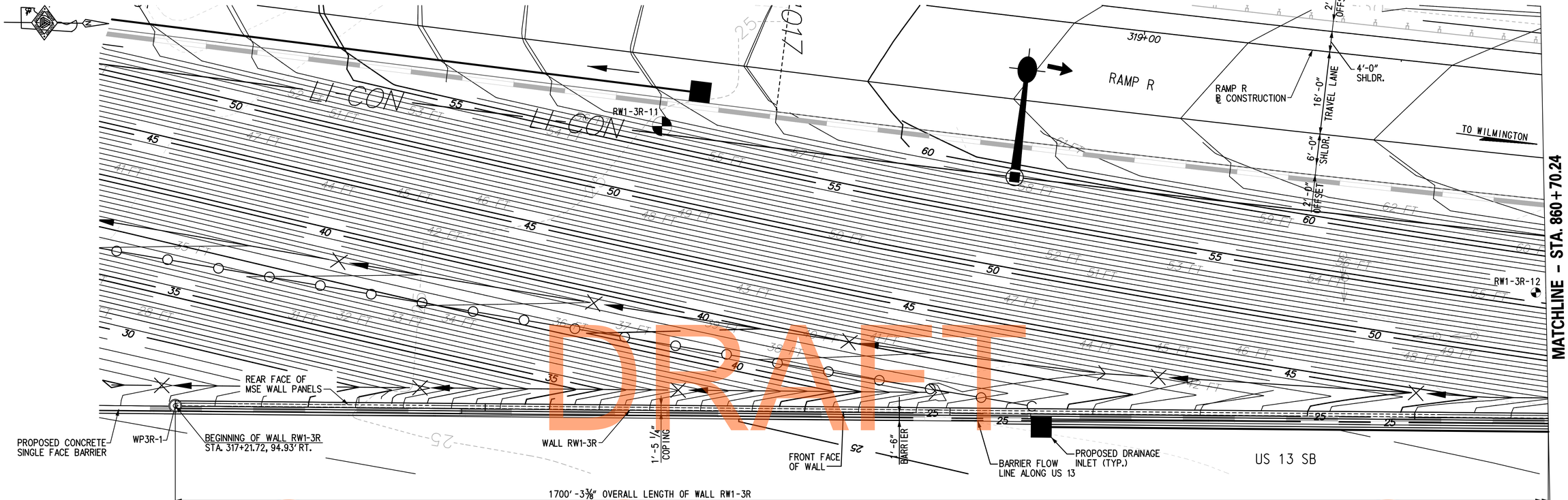
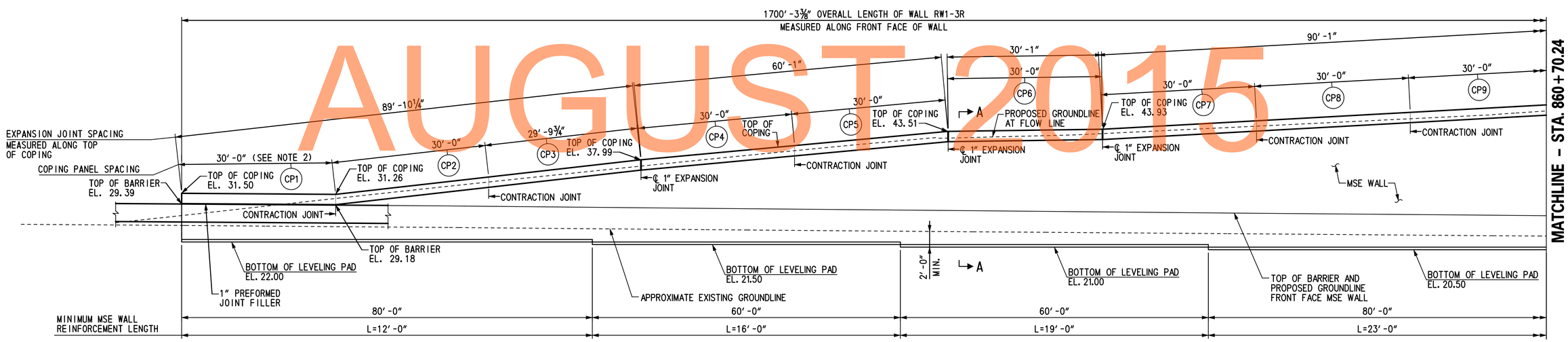
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	GEOMETRIC LAYOUT PLAN	RW1-3R GL-01
				COUNTY NEW CASTLE	DESIGNED BY: KGD		SHEET NO. 328
					CHECKED BY: KEE		TOTAL SHTS. 491



TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-11	318+09.61	29.55' RT.	557025.0600	590527.0500
RW1-3R-12	319+81.45	42.43' RT.	557194.6800	590561.9600

PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR DETAILS OF COPING INTERFACE WITH ROADWAY BARRIER, SEE DETAIL A ON DWG. NO. MS-15.
3. FOR SECTION A-A, SEE DWG. NO. RD-01.

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AUGUST 2015

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

GENERAL PLAN & ELEVATION - 1

RW1-3R PE-01

SHEET NO. 329

TOTAL SHTS. 491

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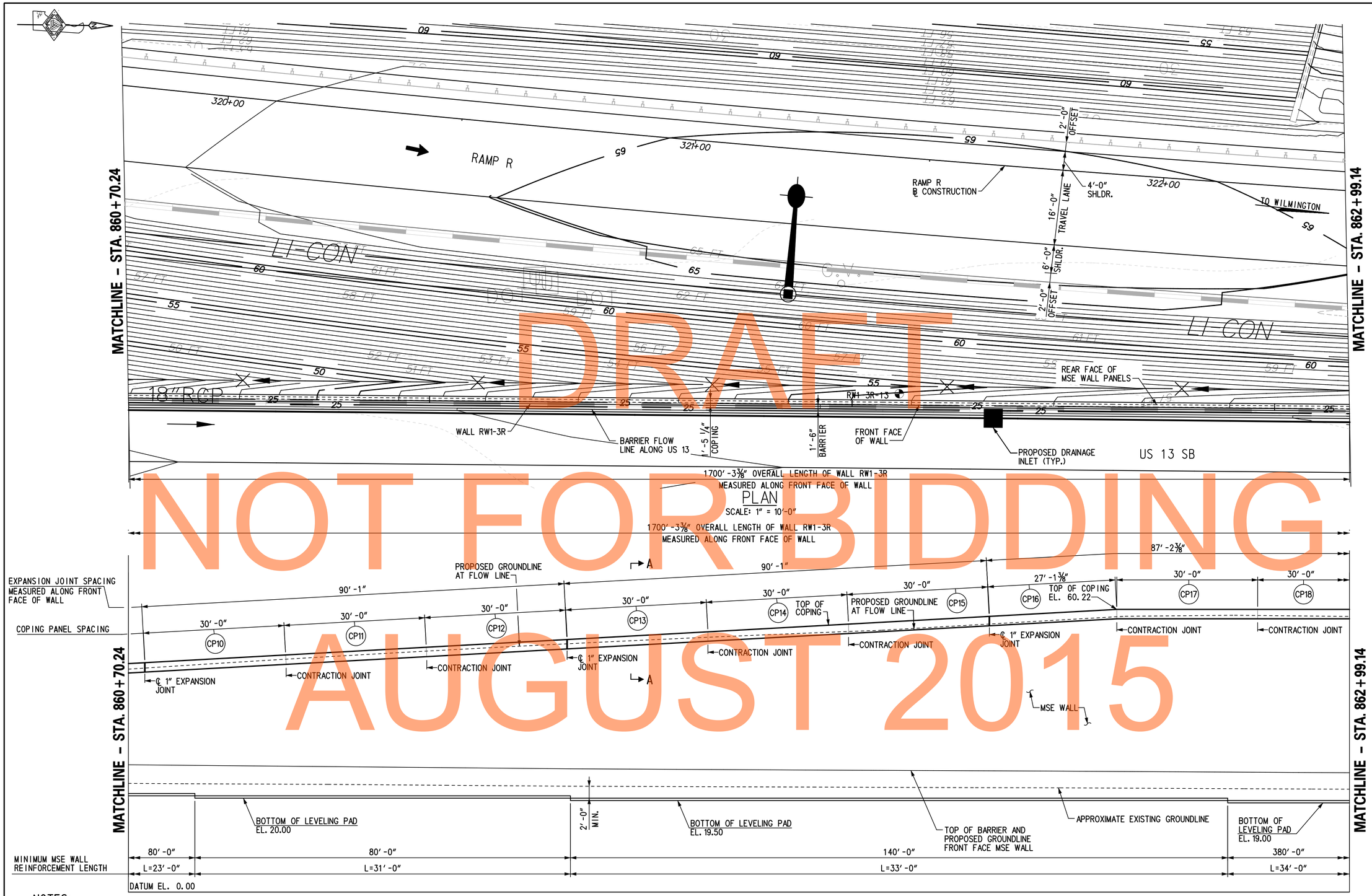

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NOT FOR BIDDING
AUGUST 2015

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR SECTION A-A, SEE DWG. NO. RD-01.

ELEVATION

SCALE: 1" = 10'-0"

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-13	321+47.52	50.19' RT.	557360.0765	590587.2207

RW1-3R PE-02

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

GENERAL PLAN & ELEVATION - 2

SHEET NO. 330

TOTAL SHTS. 491

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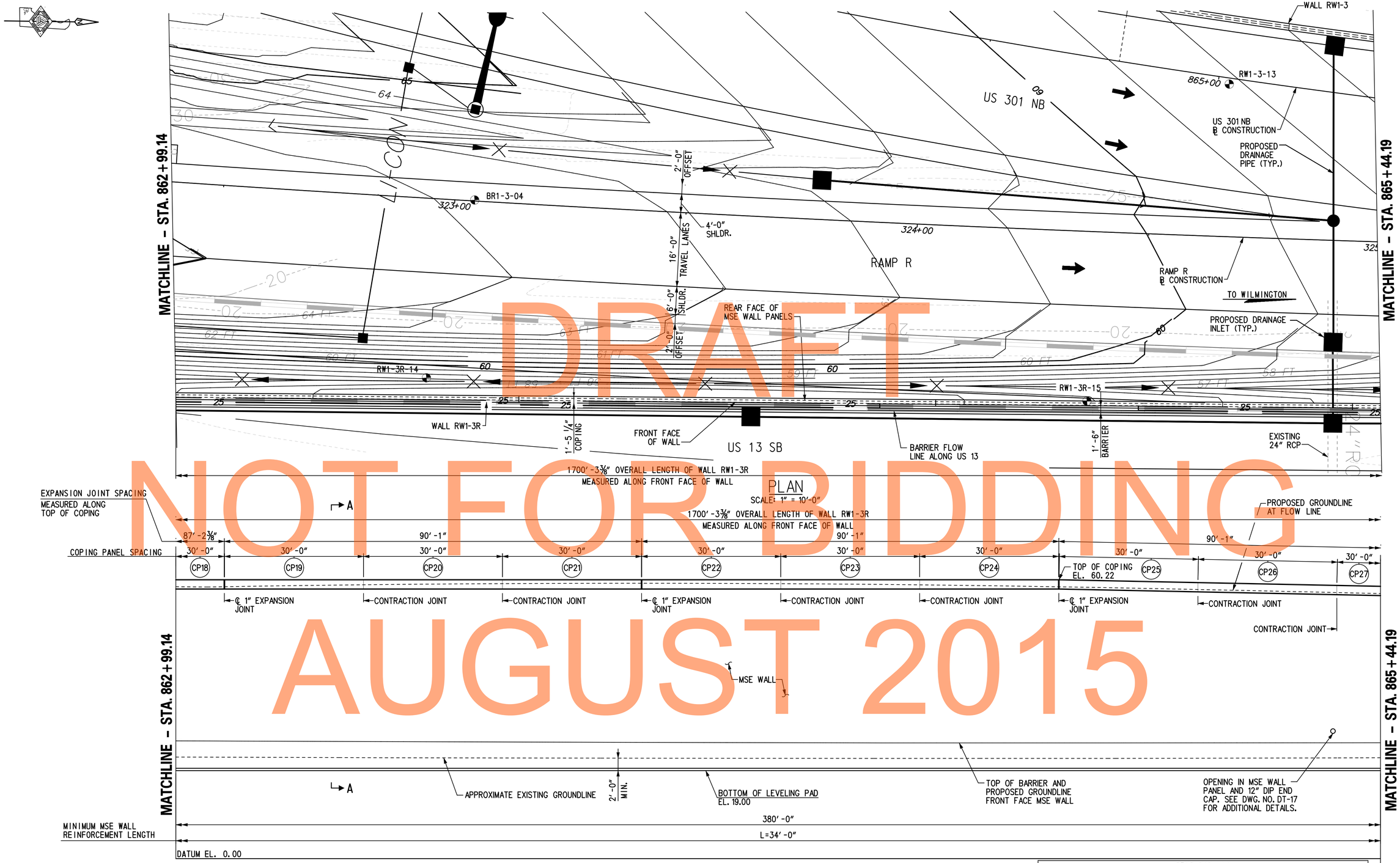

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NOT FOR BIDDING
AUGUST 2015

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR SECTION A-A, SEE DWG. NO. RD-01.

TEST BORINGS

BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-14	322+96.17	38.74' RT.	557510.0729	590588.2641
BR1-3-04	323+04.28	00.21' LT.	557521.0000	590550.0000
RW1-3R-15	325+38.12	36.64' LT.	557652.6000	590595.1900
RW1-3-13	324+66.21	32.90' LT.	557684.2400	590527.1900

RW1-3R
PE-03

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

GENERAL PLAN & ELEVATION - 3

SHEET NO. 331
TOTAL SHTS. 491

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\RW1-3R\PE03_RW1-3R.dgn
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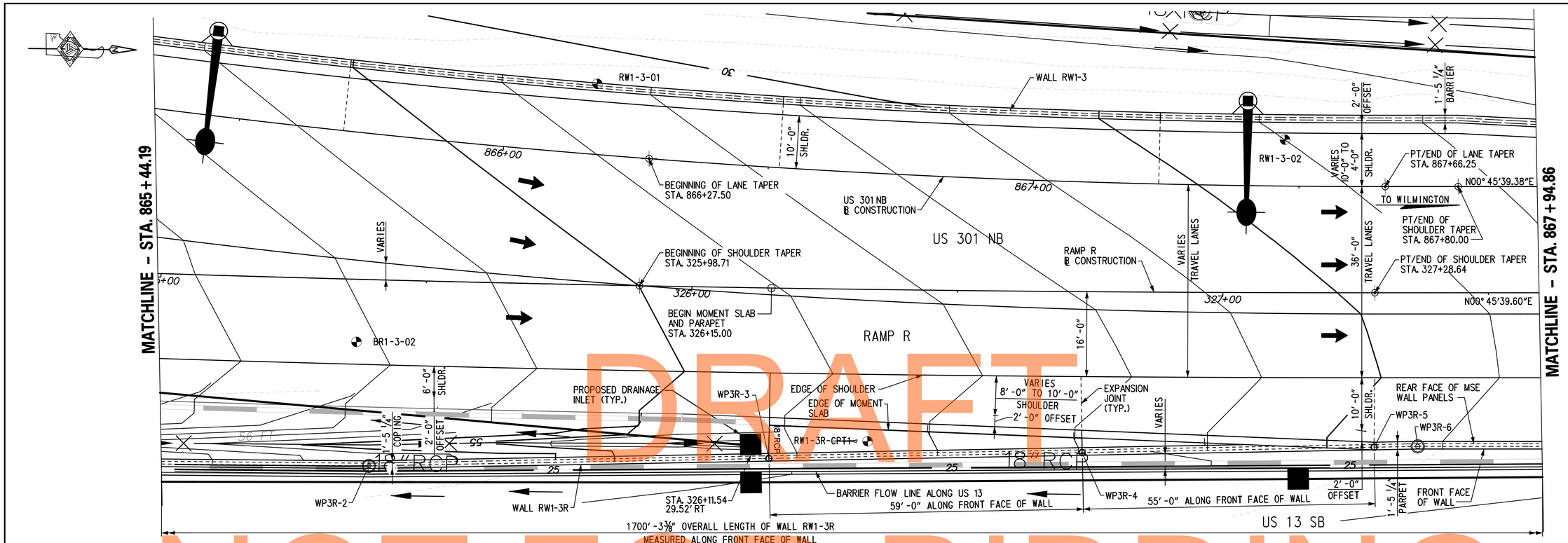
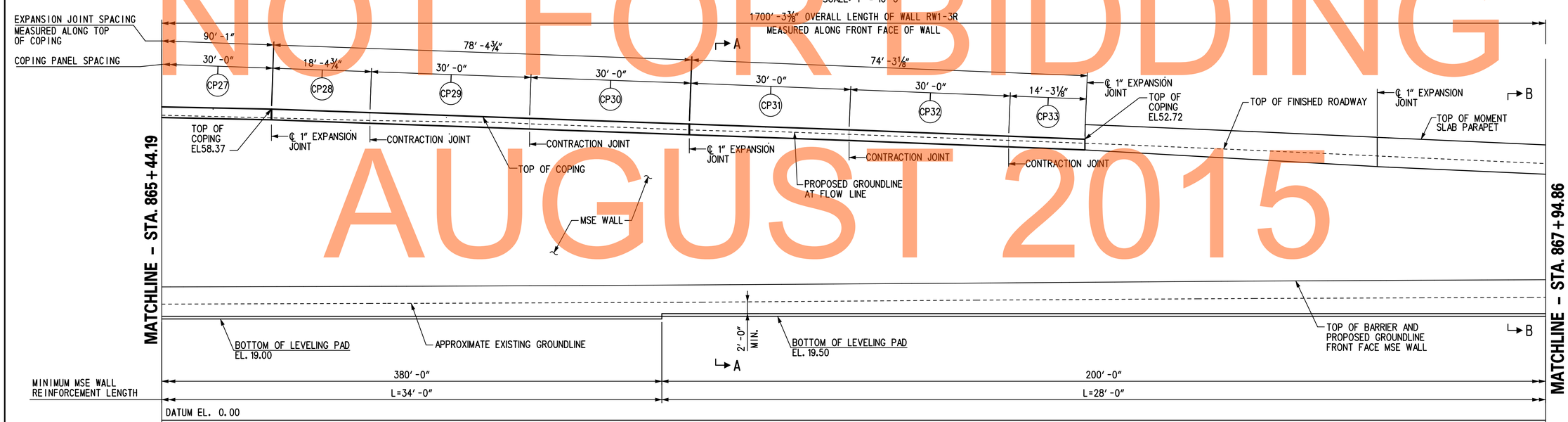


PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

NOT FOR BIDDING
AUGUST 2015
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NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. RW1-3R MOMENT SLAB EXPANSION JOINTS SHALL ALIGN WITH ADJACENT ROADWAY PAVEMENT JOINTS, SEE RDWY DWG. NOS. EX-01 THROUGH EX-10.
3. FOR SECTIONS A-A AND B-B, SEE DWG. NO. RD-01.

TEST BORINGS

BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
BR1-3-02	325+37.14	11.79' RT.	557753.0000	590575.0000
RW1-3-01	325+81.42	37.86' LT.	557799.0000	590527.0000
RW1-3-02	327+11.63	28.82' LT.	557928.3400	590539.2330
RW1-3R-CPT1	326+33.48	28.60' RT.	557849.0000	590595.0000

RW1-3R
PE-04

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

GENERAL PLAN & ELEVATION - 4

SHEET NO. 332
TOTAL SHTS. 491

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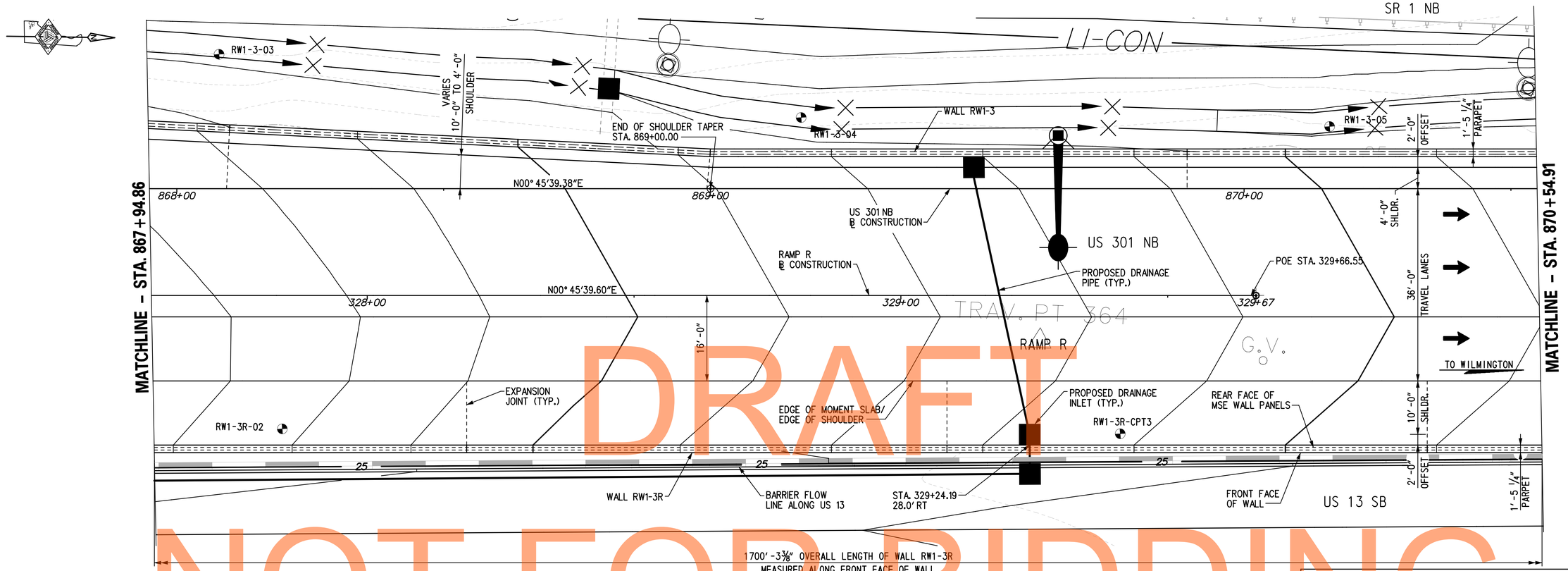
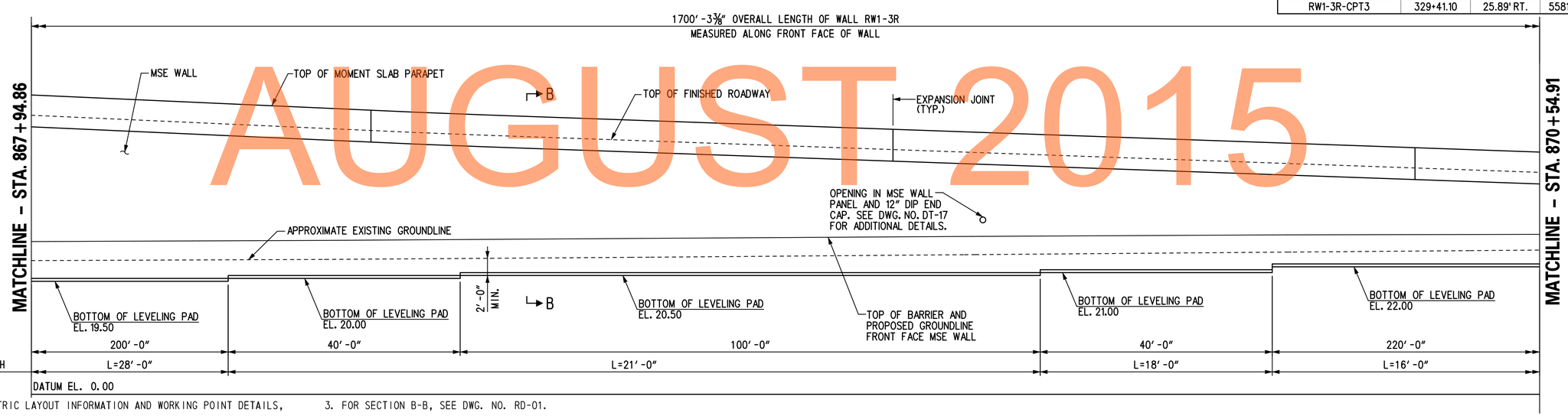


PLAN
SCALE: 1" = 10'-0"

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-03	327+72.23	45.16' LT.	557989.0900	590523.7200
RW1-3R-02	327+84.08	24.97' RT.	558000.0000	590594.0000
RW1-3-04	328+89.24	33.33' LT.	558098.0000	590537.0000
RW1-3-05	870+16.02	11.64' LT.	558197.0000	590540.0000
RW1-3R-CPT3	329+41.10	25.89' RT.	558157.0000	590597.0000



ELEVATION
SCALE: 1" = 10'-0"

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. RW1-3R MOMENT SLAB EXPANSION JOINTS SHALL ALIGN WITH ADJACENT ROADWAY PAVEMENT JOINTS, SEE RDWY DWG. NOS. EX-01 THROUGH EX-10.
3. FOR SECTION B-B, SEE DWG. NO. RD-01.

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RW1-3R PE-05

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

GENERAL PLAN & ELEVATION - 5

SHEET NO. 333
TOTAL SHTS. 491

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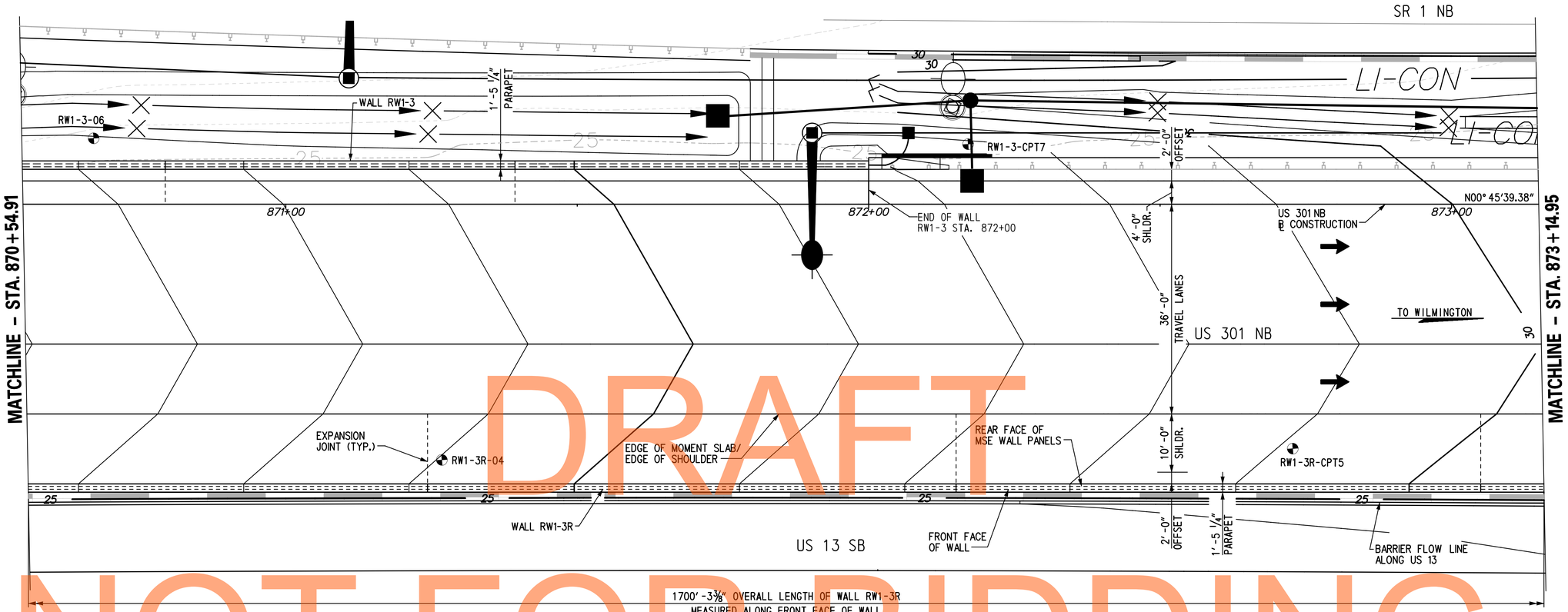
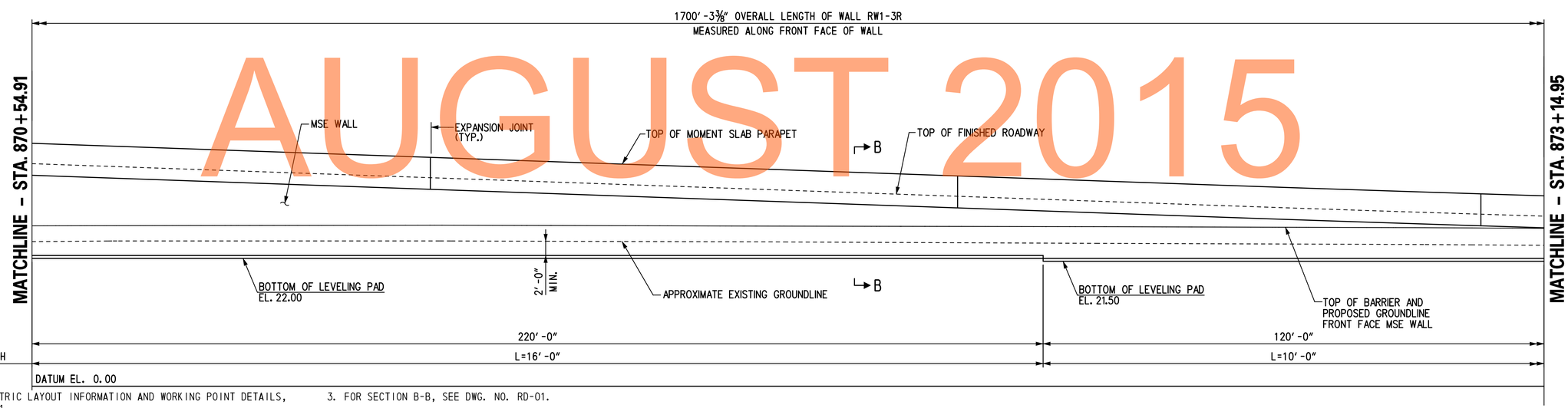


PLAN
SCALE: 1" = 10'-0"

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-06	870+67.03	11.32' LT.	558248.0000	590541.0000
RW1-3R-04	871+26.77	43.89' RT.	558307.0000	590597.0000
RW1-3R-CPT5	872+72.76	41.95' RT.	558453.0000	590597.0000
RW1-3-CPT7	872+17.06	10.31' LT.	558398.0000	590544.0000



ELEVATION
SCALE: 1" = 10'-0"

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. RW1-3R MOMENT SLAB EXPANSION JOINTS SHALL ALIGN WITH ADJACENT ROADWAY PAVEMENT JOINTS, SEE RDWY DWG. NOS. EX-01 THROUGH EX-10.
3. FOR SECTION B-B, SEE DWG. NO. RD-01.

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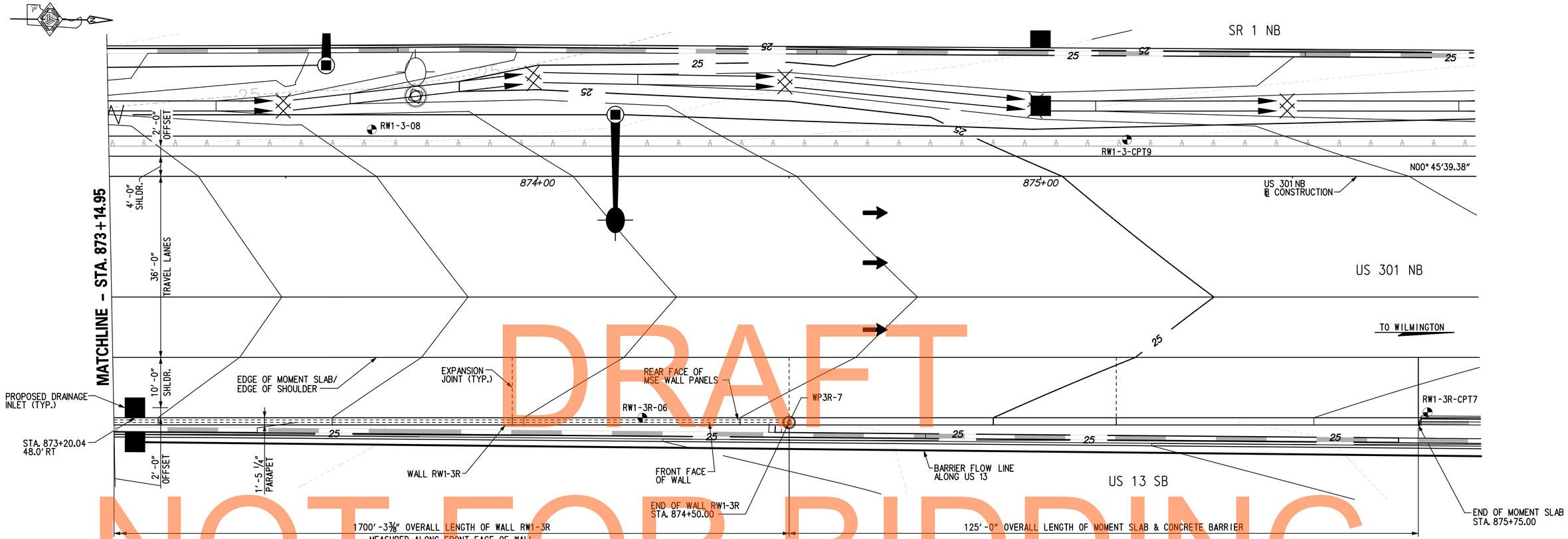
AUGUST 2015



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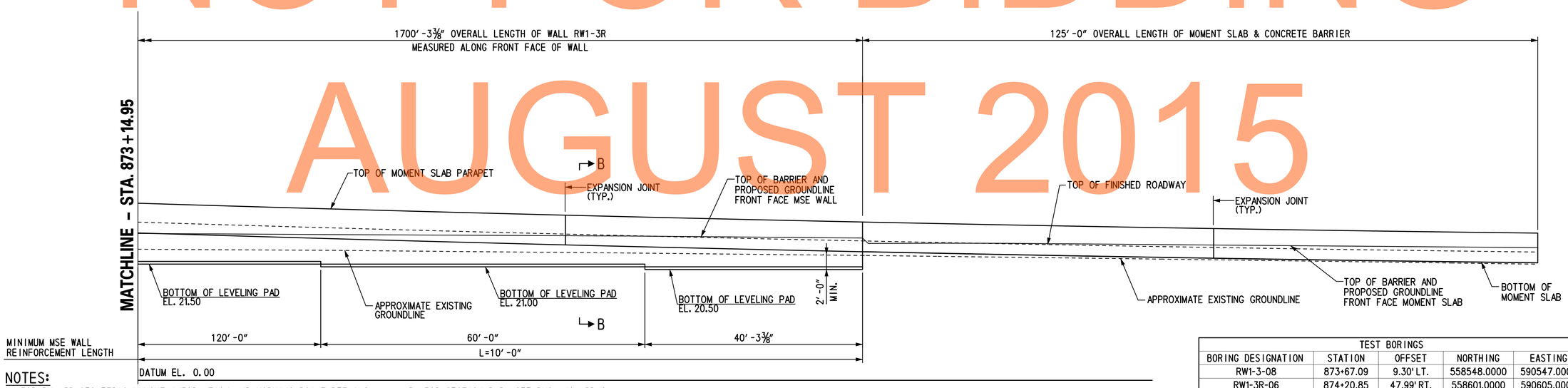
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-08	873+67.09	9.30' LT.	558548.0000	590547.0000
RW1-3R-06	874+20.85	47.99' RT.	558601.0000	590605.0000
RW1-3R-CPT7	875+76.85	46.92' RT.	558757.0000	590606.0000
RW1-3-CPT9	875+17.13	7.30' LT.	558698.0000	590551.0000

NOTES:
1. FOR RW1-3R GEOMETRIC LAYOUT INFORMATION AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. RW1-3R MOMENT SLAB EXPANSION JOINTS SHALL ALIGN WITH ADJACENT ROADWAY PAVEMENT JOINTS, SEE RDWY DWG. NOS. EX-01 THROUGH EX-10.
3. FOR SECTION B-B, SEE DWG. NO. RD-01.

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RW1-3R
PE-07

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE: AS NOTED

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	KGD
COUNTY		
NEW CASTLE	CHECKED BY:	KEE

GENERAL PLAN & ELEVATION - 7

SHEET NO. 335
TOTAL SHTS. 491

\\tsclient\S\Projects\2008\PE-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\PE07_RW1-3R.dgn
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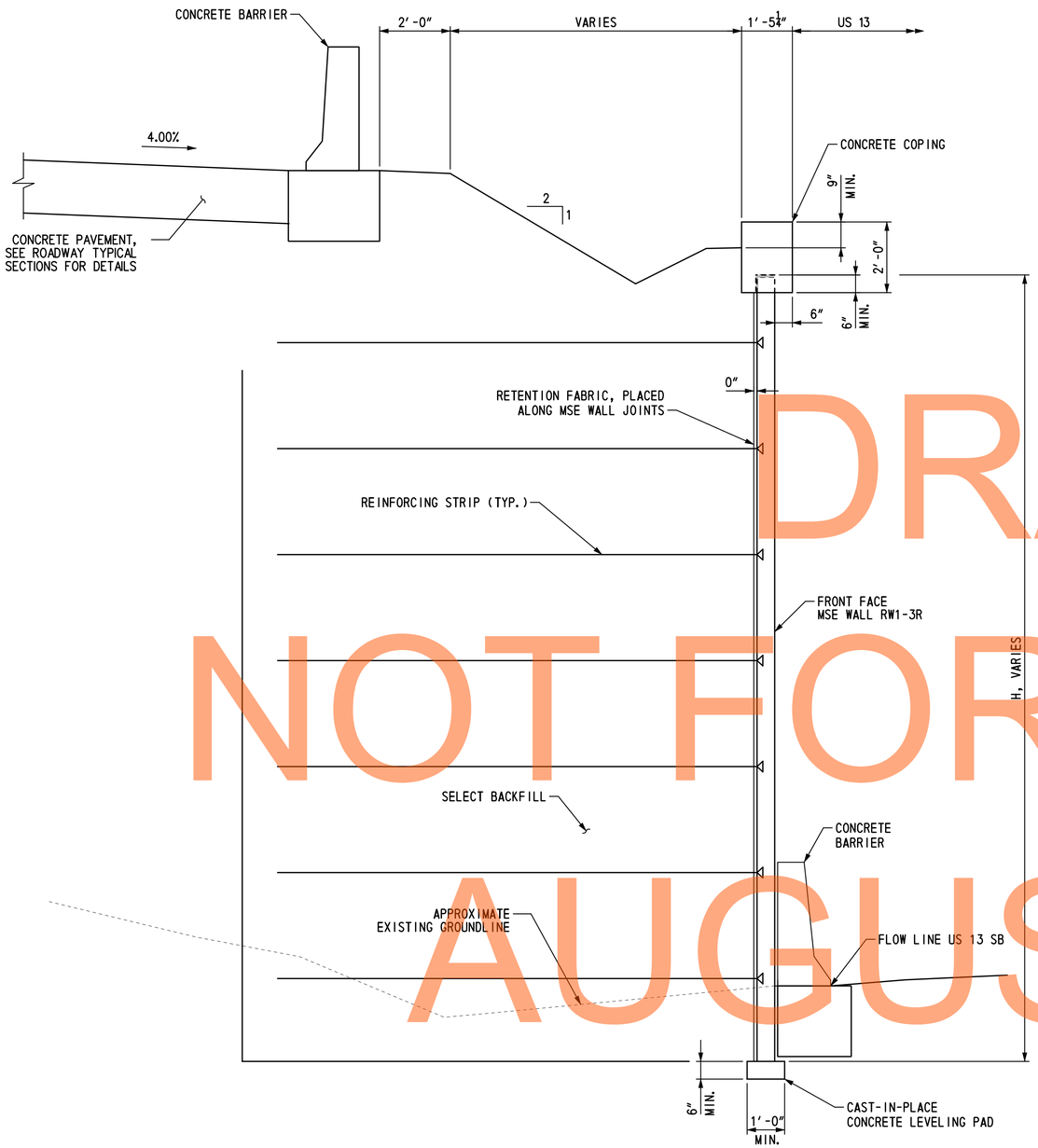
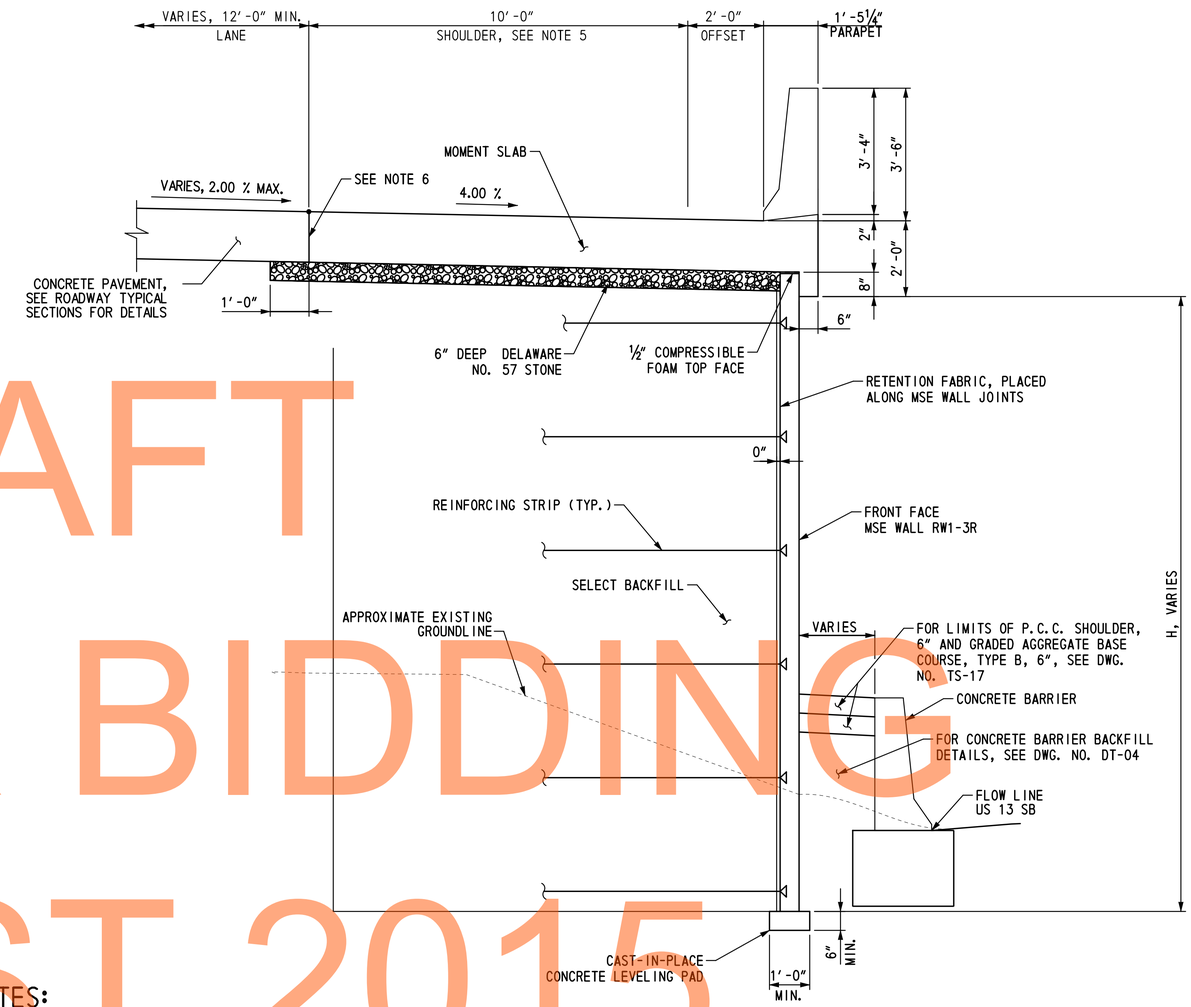


SECTION A-A

SCALE: ½"=1'-0"



SECTION B-B

SCALE: ½"=1'-0"

NOTES:

1. FOR LOCATION OF SECTIONS A-A AND B-B, SEE DWG. NOS. PE-01 THRU PE-07.
2. FOR MSE WALL NOTES AND SOIL PROPERTIES, SEE DWG. NO. PN-01.
3. FOR ROADWAY TYPICAL SECTIONS, SEE DWG.NOS. TS-02, TS-03, TS-11 AND TS-12.
4. PAYMENT FOR CONSTRUCTION OF MOMENT SLABS BE MADE UNDERITEM 602018 - PORTLAND CEMENT MASONRY CLASS D. PAYMENT FOR PERFORMED JOINT FILLER, DOWEL BARS AND EXPANSION SLEEVES SHALL BE INCIDENTAL TO THIS ITEM.
5. RUMBLE STRIPS SHALL BE LOCATED IN THE MOMENT SLAB ADJACENT TO THE SHOULDER. FOR RUMBLE STRIP DETAIL, SEE DWG. NO. DT-01.
6. PRIOR TO PLACING MOMENT SLAB CONCRETE ADJACENT TO EXISTING CONCRETEPAVEMENT, OR PRIOR TO PLACING CONCRETE PAVEMENT ADJACENT TO EXISTING MOMENT SLAB CONCRETE, AN APPROVED BOND BREAKER SHALL BE APPLIED TO THE EXISTING CONCRETE VERTICAL FACE. THIS LONGITUDINAL JOINT AT THE INTERFACE BETWEEN THE CONCRETE PAVEMENT AND THE MOMENT SLAB CONCRETE SHALL NOT BE SEALED. VERTICAL CRACKS IN THE EXISTING CONCRETE FACE SHALL BE COVERED OR SEALED AS APPROVED BY THE ENGINEER TO PREVENT INTRUSION OF THE NEW CONCRETE INTO THE EXISTING CONCRETE. ALL WORK SHALL BE INCIDENTAL TO ITEM NO. 602018 - PORTLAND CEMENT CONCRETE MASONRY, CLASS D.
7. REFLECTORS SHALL BE INSTALLED ALONG THE PARAPET (ROADWAY ITEM). FOR DETAILS, SEE DWG. NO. DT-05.

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RW1-3R
RD-01

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MSE WALL SECTIONS	SHEET NO. 336
				COUNTY NEW CASTLE	DESIGNED BY: KMG		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\RD01_RW1-3R.DGN
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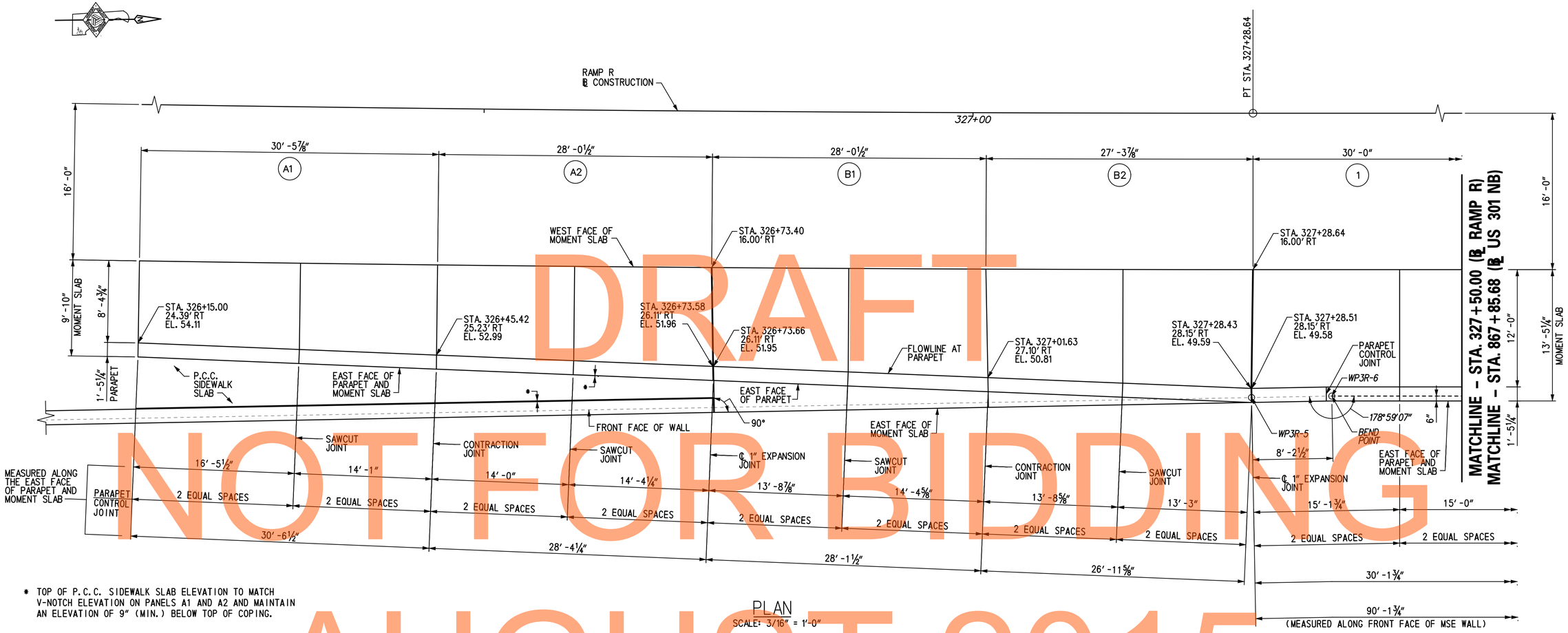

* TOP OF P.C.C. SIDEWALK SLAB ELEVATION TO MATCH V-NOTCH ELEVATION ON PANELS A1 AND A2 AND MAINTAIN AN ELEVATION OF 9" (MIN.) BELOW TOP OF COPING.

PLAN
SCALE: 3/16" = 1'-0"

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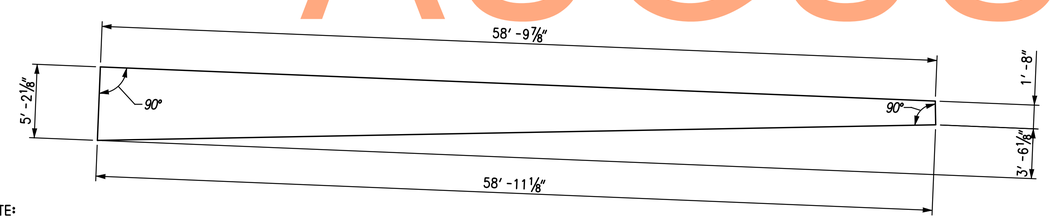
AUGUST 2015



NOTE:

FOR P.C.C. SIDEWALK DETAILS AND PAYMENT SEE ROADWAY PLANS.

PLAN
(P.C.C. SIDEWALK SLAB)
SCALE: 3/16" = 1'-0"

LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

RW1-3R
MS-01

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN – 1
				COUNTY NEW CASTLE	DESIGNED BY: TSD	SHEET NO. 337
					CHECKED BY: KEE	TOTAL SHTS. 491

\\tsclient\S\Projects\2008\PEI-E00836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS01_RW1-3R.dgn
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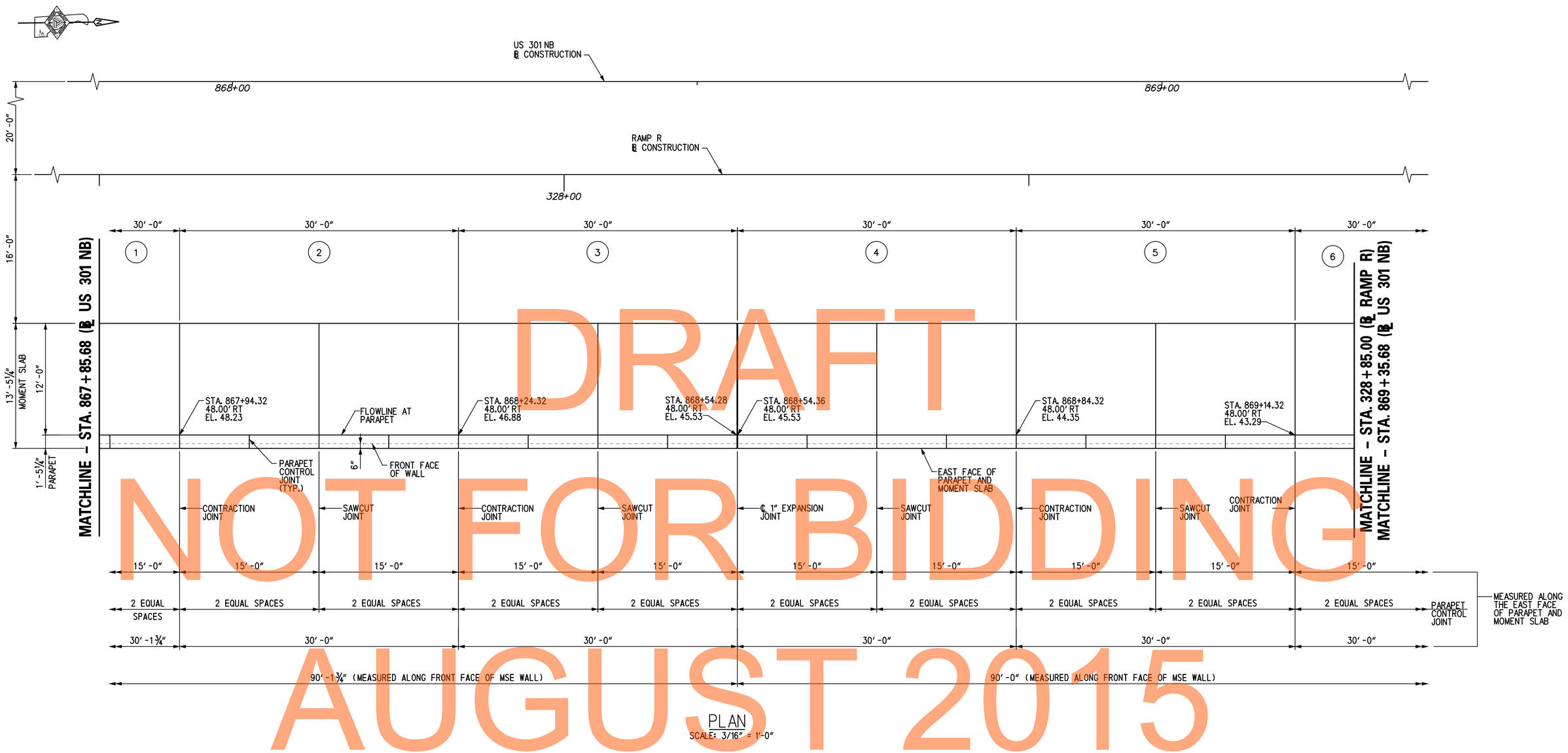

PLAN
SCALE: 3/16" = 1'-0"

DRAFT
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AUGUST 2015

LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

\\tsdient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS02_RW1-3R.dgn
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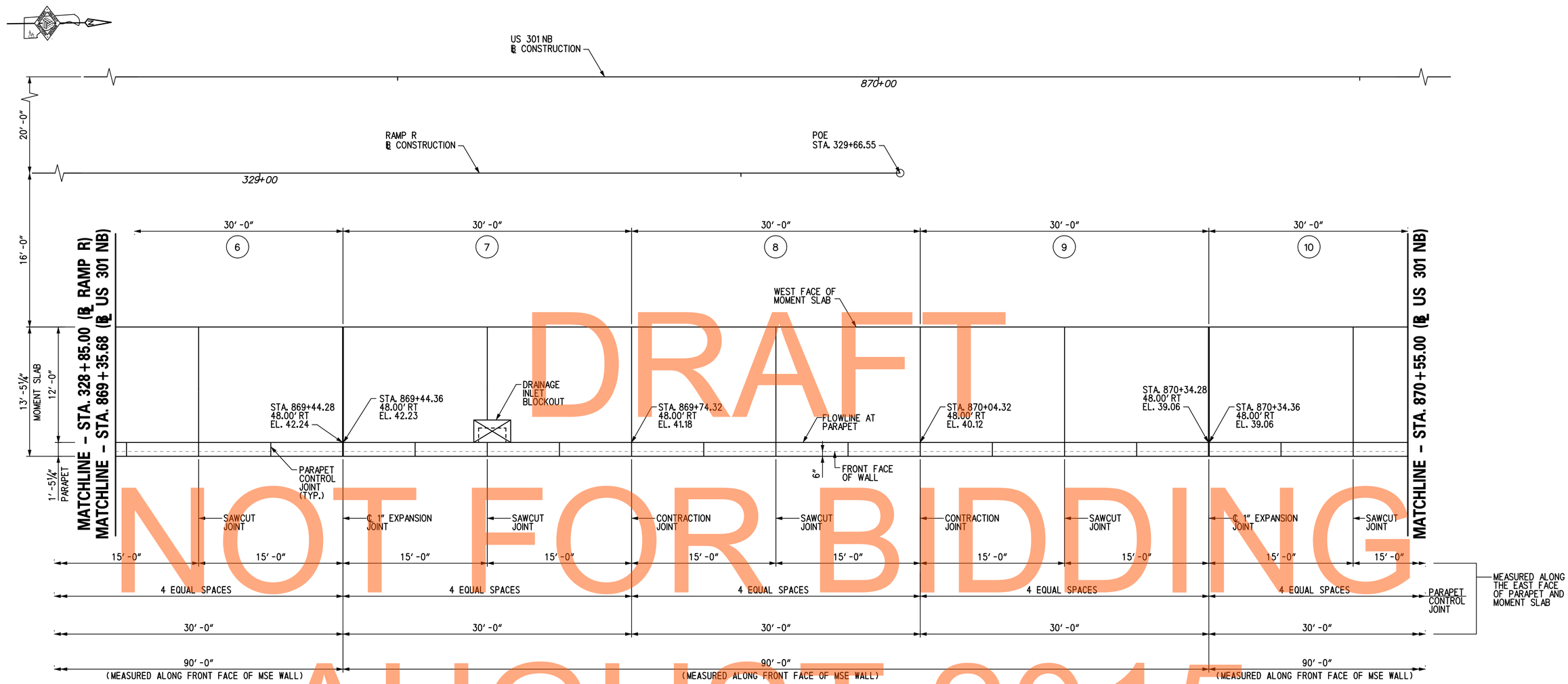
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN – 2	RW1-3R MS-02
				COUNTY NEW CASTLE	DESIGNED BY: TSD		SHEET NO. 338
					CHECKED BY: KEE		TOTAL SHTS. 491



PLAN
SCALE: 3/16" = 1'-0"

DRAFT
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AUGUST 2015

LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11..

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS03_RW1-3R.dgn
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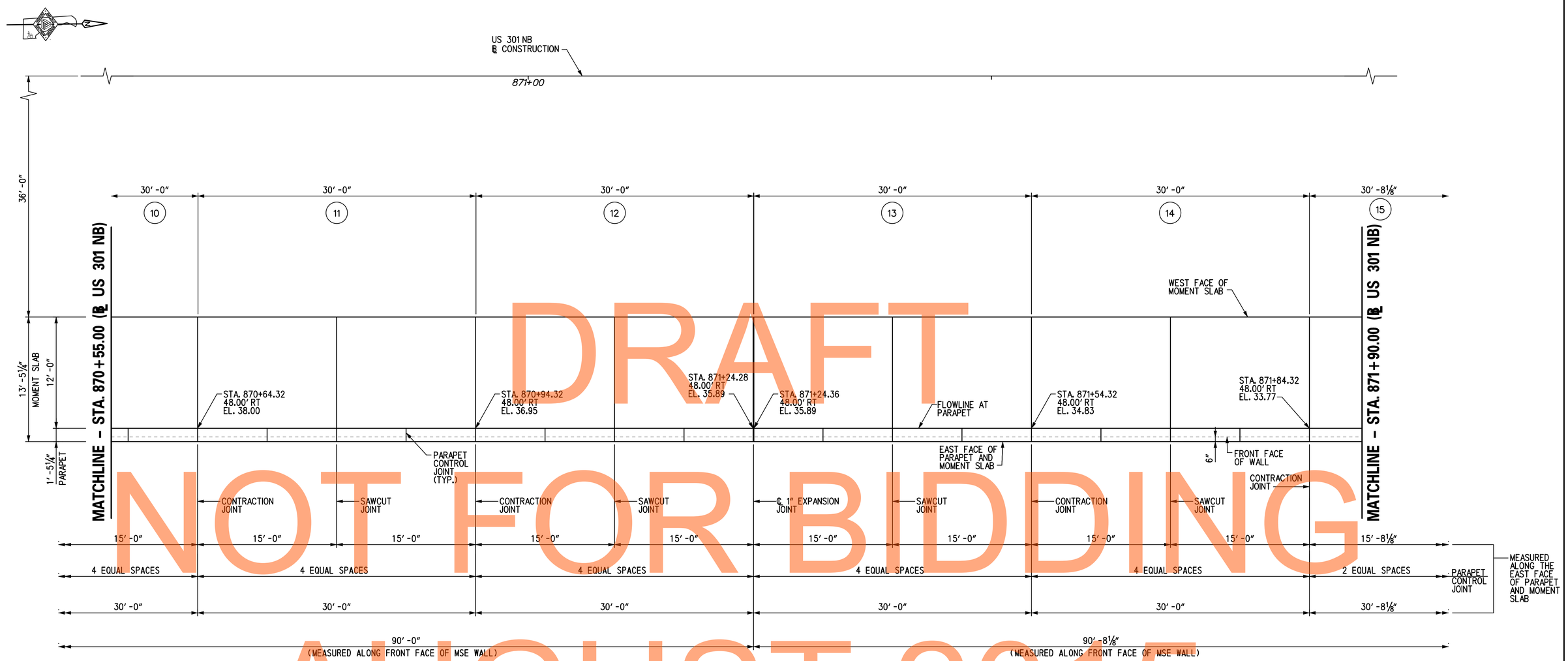
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN – 3	RW1-3R MS-03
				COUNTY NEW CASTLE	DESIGNED BY: TSD		SHEET NO. 339
					CHECKED BY: KEE		TOTAL SHTS. 491



PLAN
SCALE: 3/16" = 1'-0"

DRAFT
NOT FOR BIDDING
AUGUST 2015

LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

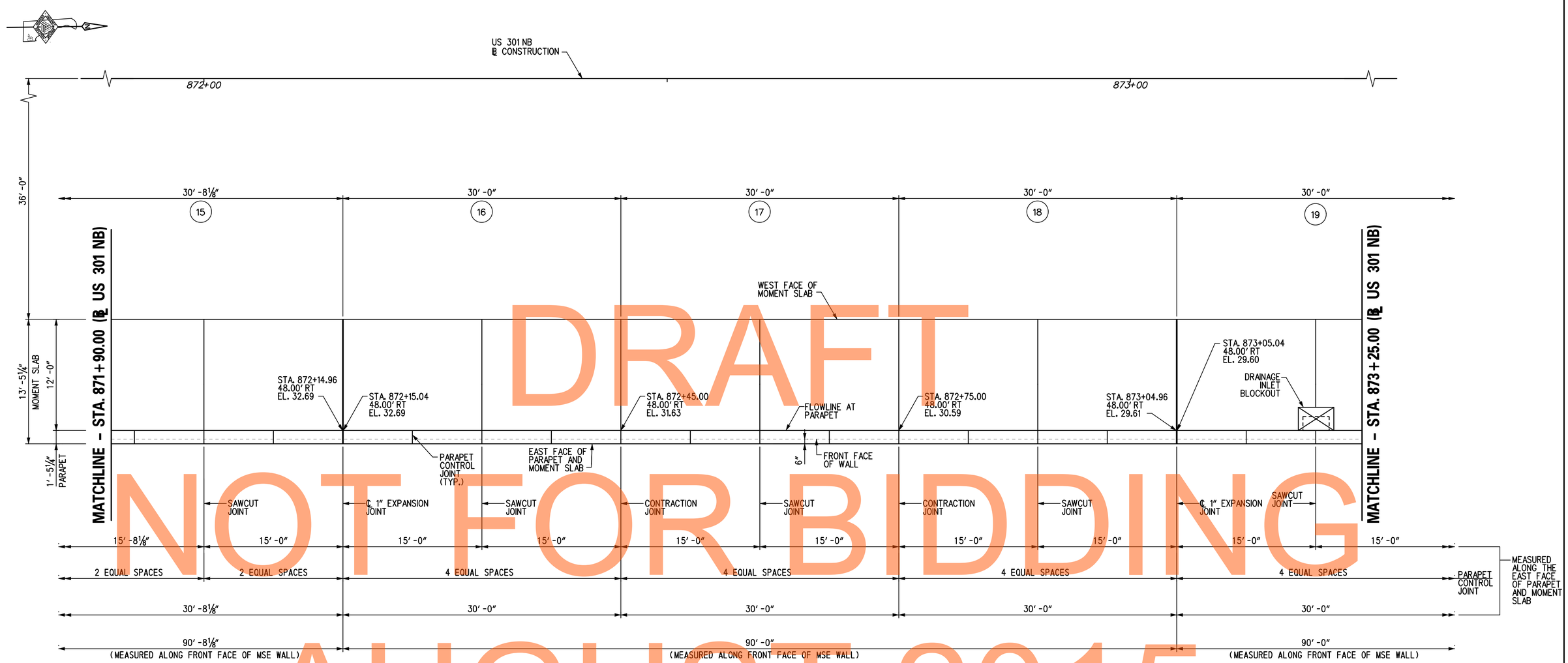
NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

RW1-3R
MS-04

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN - 4	SHEET NO. 340
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS04_RW1-3R.dgn
2/2/2013 2:14:44 PM



PLAN
SCALE: 3/16" = 1'-0"

DRAFT
NOT FOR BIDDING
AUGUST 2015

LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

RW1-3R
MS-05

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN - 5	SHEET NO. 341
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS05_RW1-3R.dgn
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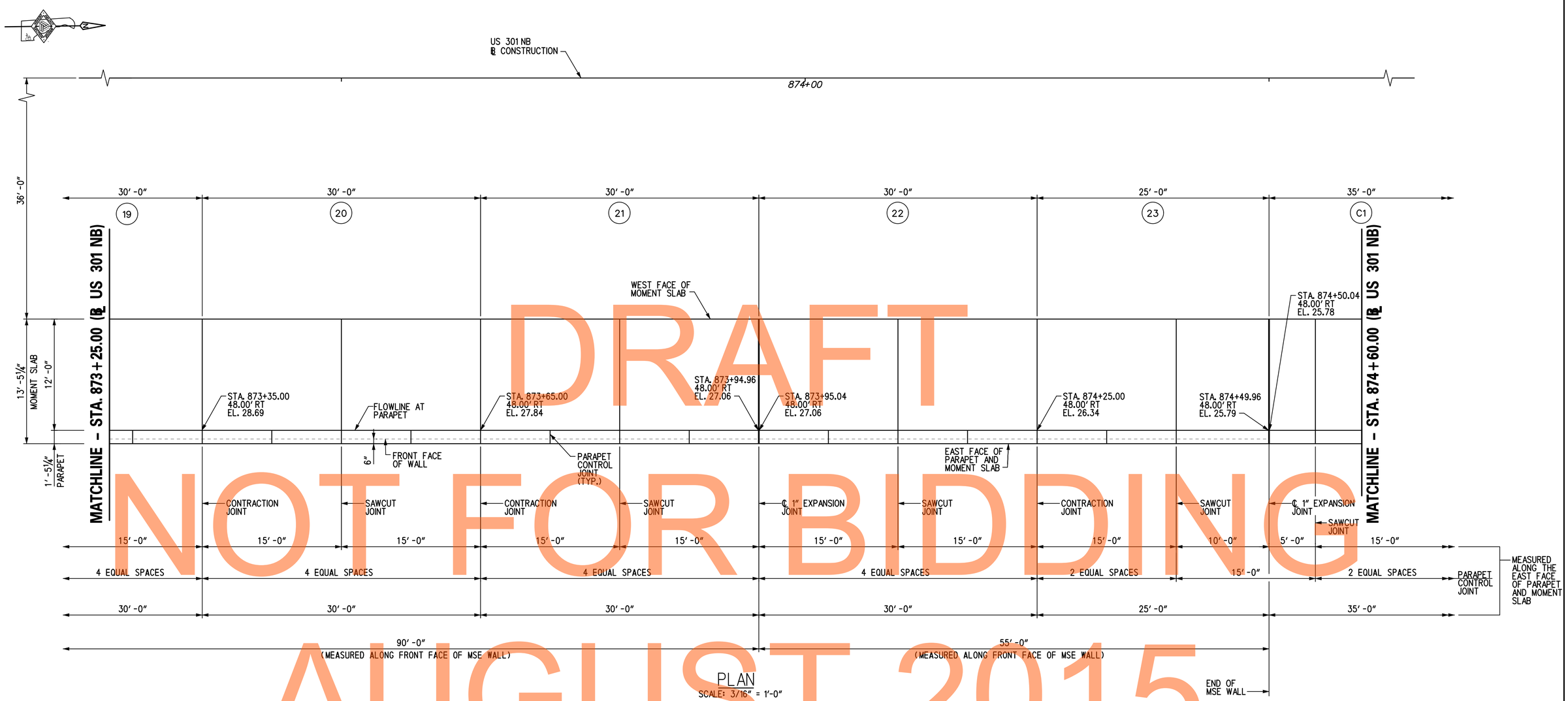

PLAN
SCALE: 3/16" = 1'-0"

DRAFT
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LEGEND:

(4) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

RW1-3R
MS-06

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN - 6	SHEET NO. 342
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS06_RW1-3R.dgn
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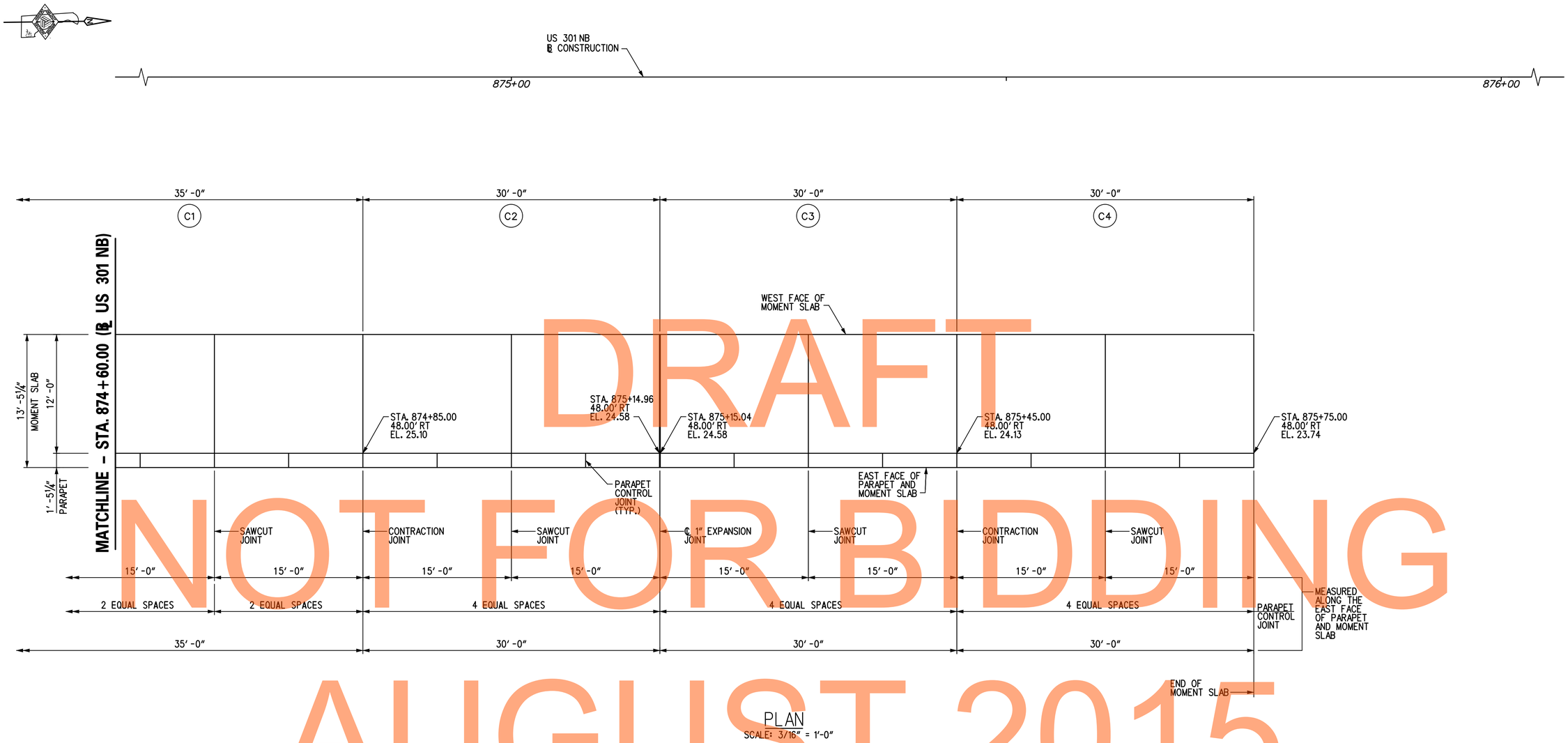

PLAN
SCALE: 3/16″ = 1′-0″

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LEGEND:

(C1) MOMENT SLAB PANEL I.D. DESIGNATION

NOTES:

1. FOR RW1-3R GEOMETRIC LAYOUT AND WORKING POINT DETAILS, SEE DWG. NO. GL-01.
2. FOR MOMENT SLAB TYPICAL SECTION, SEE DWG. NO. RD-01.
3. FOR REINFORCEMENT DETAILS, SEE DWG. NO. MS-08 TO MS-11.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB PLAN – 7	RW1-3R MS-07
				COUNTY NEW CASTLE	DESIGNED BY: TSD		SHEET NO. 343
					CHECKED BY: KEE		TOTAL SHTS. 491

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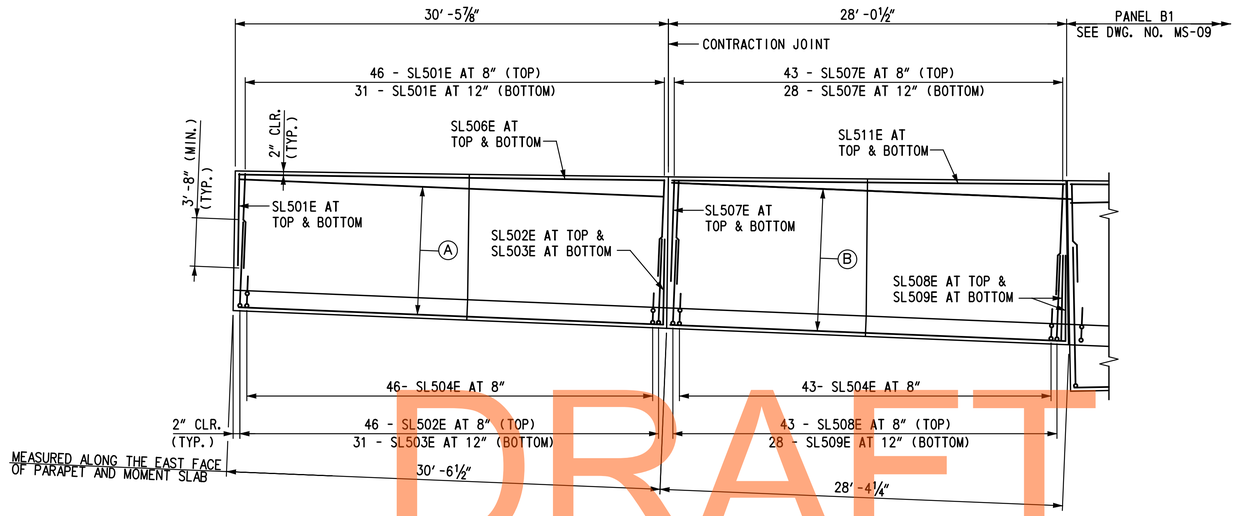
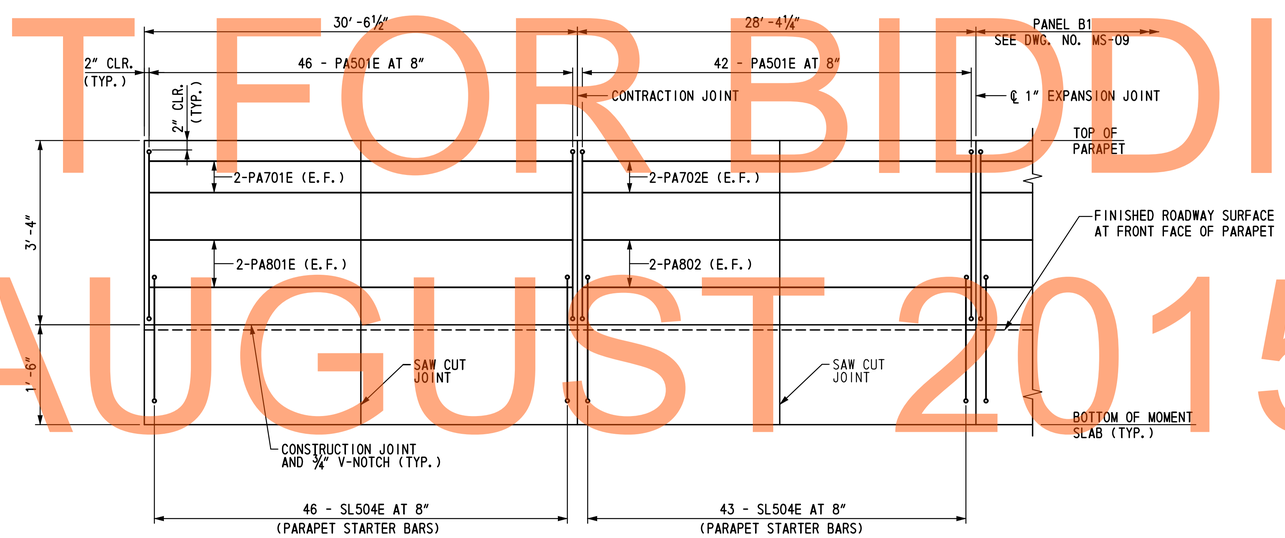
2/22/2013 2:17:43 PM



MOMENT SLAB REINFORCEMENT PLAN

(SLAB PANEL I.D. A1 TO A2)

SCALE: 3/16" = 1'-0"



MOMENT SLAB PARAPET REINFORCEMENT ELEVATION

(SLAB PANEL I.D. A1 TO A2)

HORIZONTAL SCALE: 3/16" = 1'-0"
VERTICAL SCALE: ¾" = 1'-0"

LEGEND:

4 MOMENT SLAB PANEL I.D. DESIGNATION

A 10 - SL505E AT 12" TOP & BOTTOM

B 11 - SL510E AT 12" TOP & BOTTOM

E.F. = EACH FACE

NOTES:

1. FOR MOMENT SLAB PLAN, SEE DWG NO. MS-01 TO MS-07.
2. FOR MOMENT SLAB TYPICAL SECTION DETAILS, SEE DWG. NO. MS-12, MS-13.

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RW1-3R
MS-08

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB REINFORCEMENT DETAILS - 1	SHEET NO. 344
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_*1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS08_RW1-3R.dgn
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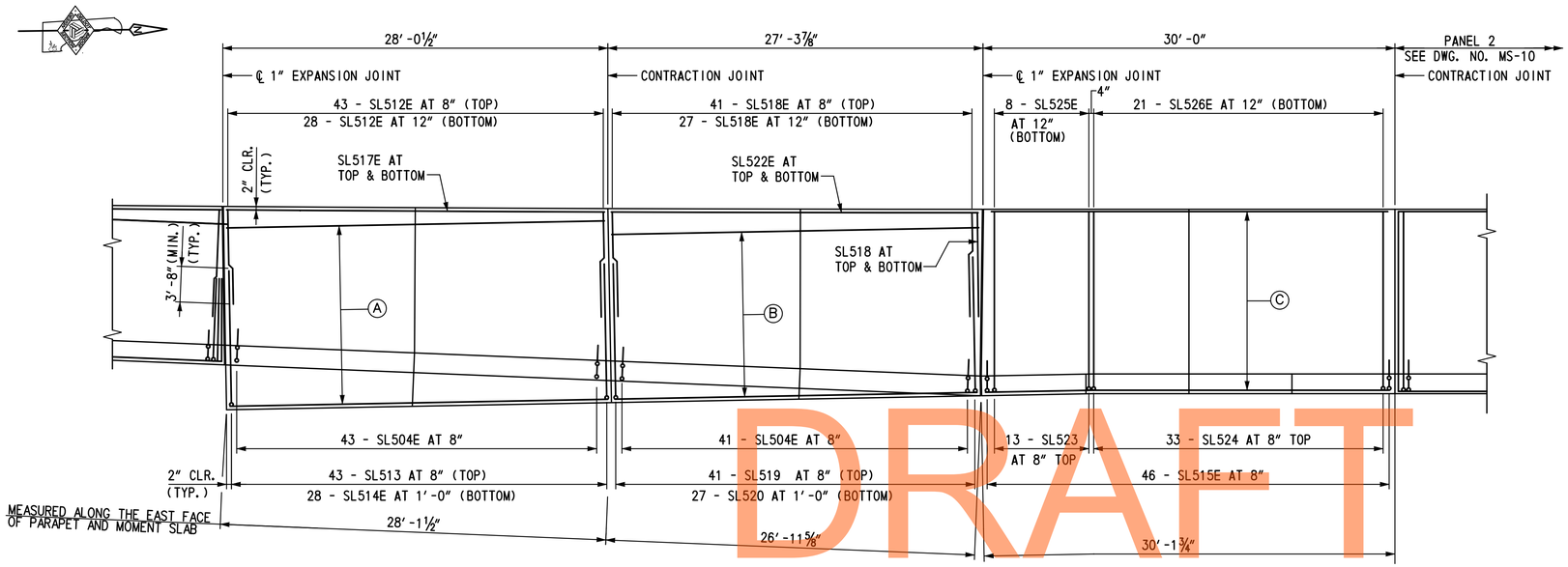
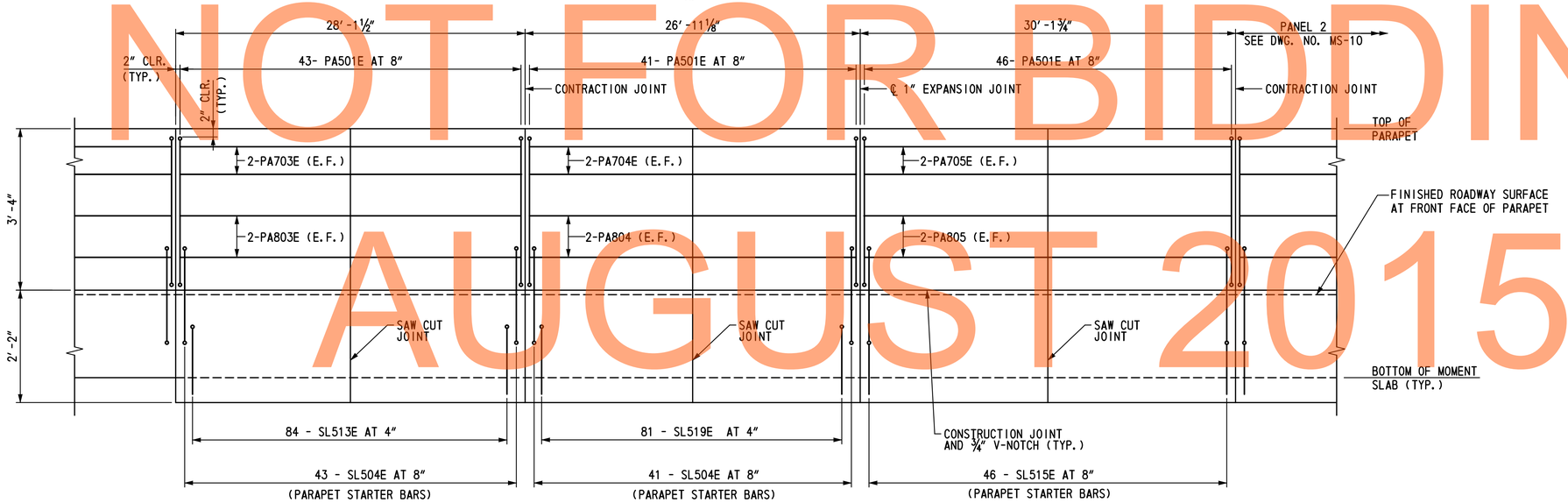


MOMENT SLAB REINFORCEMENT PLAN

(SLAB PANEL I.D. B1 TO B2 & 1)

SCALE: 3/16" = 1'-0"



MOMENT SLAB PARAPET REINFORCEMENT ELEVATION

(SLAB PANEL I.D. B1 TO B2 & 1)

HORIZONTAL SCALE: 3/16" = 1'-0"
VERTICAL SCALE: ¾" = 1'-0"

LEGEND:

- 4 MOMENT SLAB PANEL I.D. DESIGNATION
- A 14- SL516E AT 12" TOP & BOTTOM
- B 13- SL521E AT 12" TOP & BOTTOM
- C 14- SL527E AT 12" TOP & BOTTOM
- E.F. = EACH FACE

NOTES:

1. FOR MOMENT SLAB PLAN, SEE DWG NO. MS-01 TO MS-07.
2. FOR MOMENT SLAB TYPICAL SECTION DETAILS, SEE DWG. NO. MS-12, MS-13.

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RW1-3R
MS-09

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB REINFORCEMENT DETAILS – 2	SHEET NO. 345
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS09_RW1-3R.dgn
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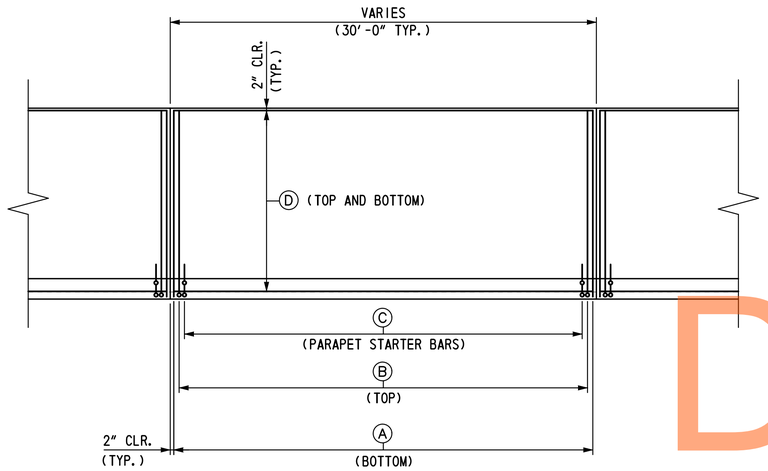
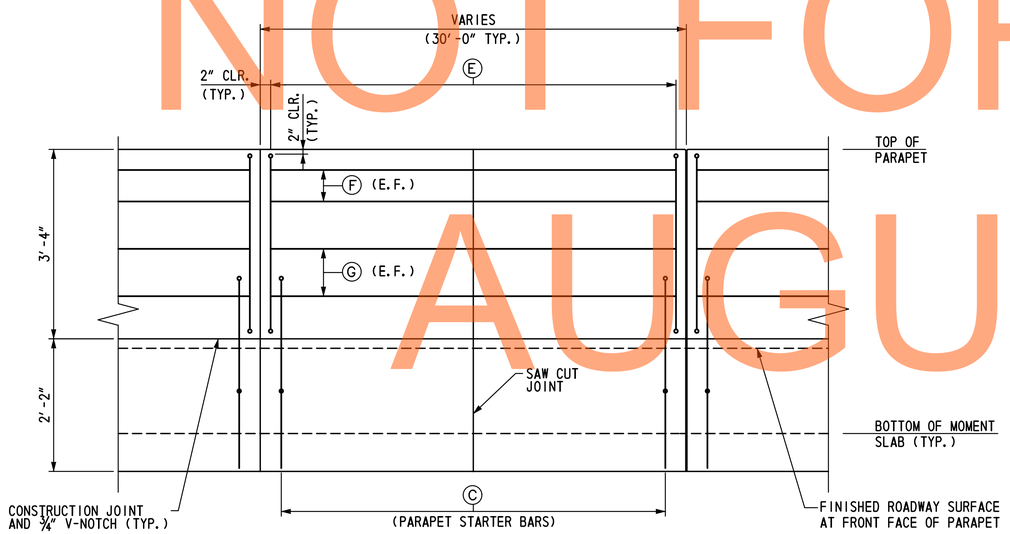


MOMENT SLAB REINFORCEMENT PLAN

(SLAB PANEL I.D. 2 TO 23)

SCALE: 3/16" = 1'-0"



MOMENT SLAB PARAPET REINFORCEMENT ELEVATION

(SLAB PANEL I.D. 2 TO 23)

HORIZONTAL SCALE: 3/16" = 1'-0"
VERTICAL SCALE: 3/4" = 1'-0"

REINFORCEMENT TABLE

SLAB PANEL I.D.	A	B	C	D	E	F	G
2 TO 6	31 - SL526E AT 12"	46 - SL524E AT 8"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E
7	31 - SL526E AT 12"	91 - SL524E AT 4"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E
8 TO 14	31 - SL526E AT 12"	46 - SL524E AT 8"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E
15	32 - SL526E AT 12"	47 - SL524E AT 8"	47 - SL515E AT 8"	14 - SL529E AT 12"	47 - PA501E AT 8"	2 - PA707E	2 - PA807E
16 TO 18	31 - SL526E AT 12"	46 - SL524E AT 8"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E
19	31 - SL526E AT 12"	91 - SL524E AT 4"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA808E
20 TO 22	31 - SL526E AT 12"	46 - SL524E AT 8"	46 - SL515E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E
23	25 - SL526E AT 12"	38 - SL524E AT 8"	38 - SL515E AT 8"	14 - SL530E AT 12"	38 - PA501E AT 8"	2 - PA708E	2 - PA808E

LEGEND:

4 MOMENT SLAB I.D. DESIGNATION

NOTES:

1. FOR MOMENT SLAB PLAN, SEE DWG NO. MS-01 TO MS-07.
2. FOR MOMENT SLAB TYPICAL SECTION DETAILS, SEE DWG. NO. MS-12, MS-13.

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\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS10_RW1-3R.dgn
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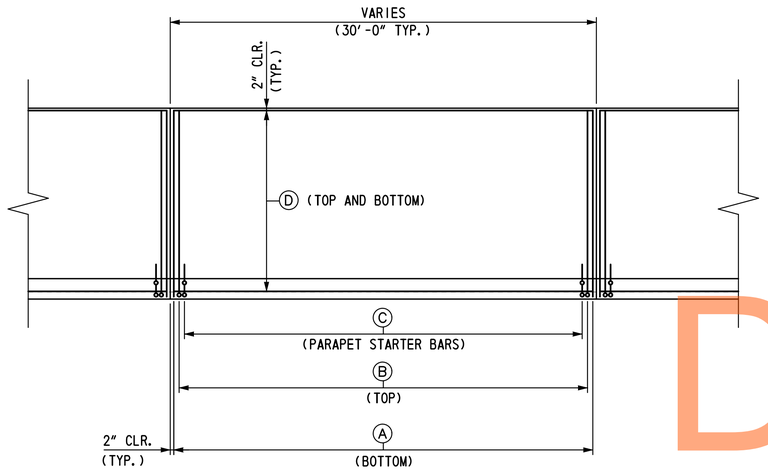
DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB REINFORCEMENT DETAILS - 3	RW1-3R MS-10
				COUNTY NEW CASTLE	DESIGNED BY: TSD		SHEET NO. 346
					CHECKED BY: KEE		TOTAL SHTS. 491

REINFORCEMENT TABLE

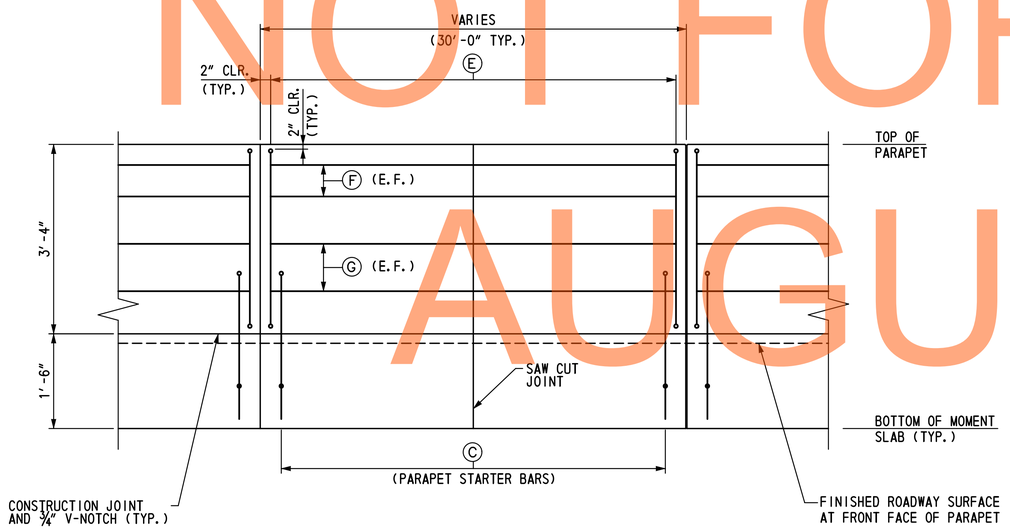
SLAB PANEL I.D.	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(C1)	36 - SL526E AT 12"	53 - SL524E AT 8"	53 - SL504E AT 8"	14 - SL528E AT 12"	53 - PA501E AT 8"	2 - PA709E	2 - PA809E
(C2) TO (C4)	31 - SL526E AT 12"	46 - SL524E AT 8"	46 - SL504E AT 8"	14 - SL527E AT 12"	46 - PA501E AT 8"	2 - PA706E	2 - PA806E



MOMENT SLAB REINFORCEMENT PLAN

(SLAB PANEL I.D. (C1) TO (C4))

SCALE: 3/16" = 1'-0"



MOMENT SLAB PARAPET REINFORCEMENT ELEVATION

(SLAB PANEL I.D. (C1) TO (C4))

HORIZONTAL SCALE: 3/16" = 1'-0"
VERTICAL SCALE: 3/4" = 1'-0"

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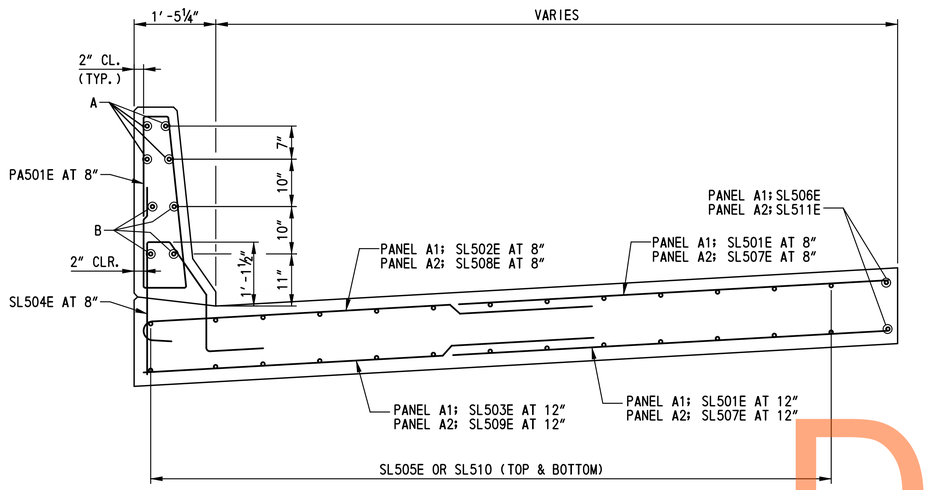
AUGUST 2015

LEGEND:

(4) MOMENT SLAB I.D. DESIGNATION

NOTES:

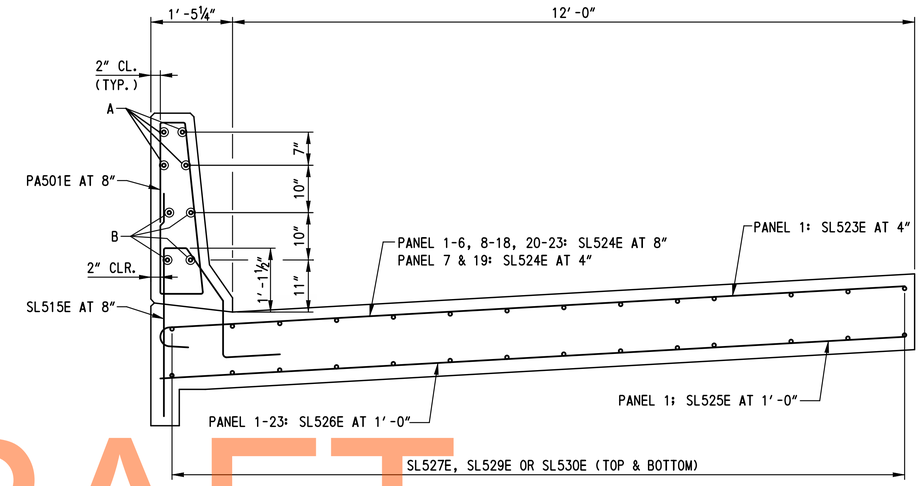
1. FOR MOMENT SLAB PLAN, SEE DWG NO. MS-01 TO MS-07.
2. FOR MOMENT SLAB TYPICAL SECTION DETAILS, SEE DWG. NO. MS-12, MS-13.



MOMENT SLAB REINFORCEMENT TYPICAL SECTION 1

(SLAB PANEL I.D. (A1) TO (A2))

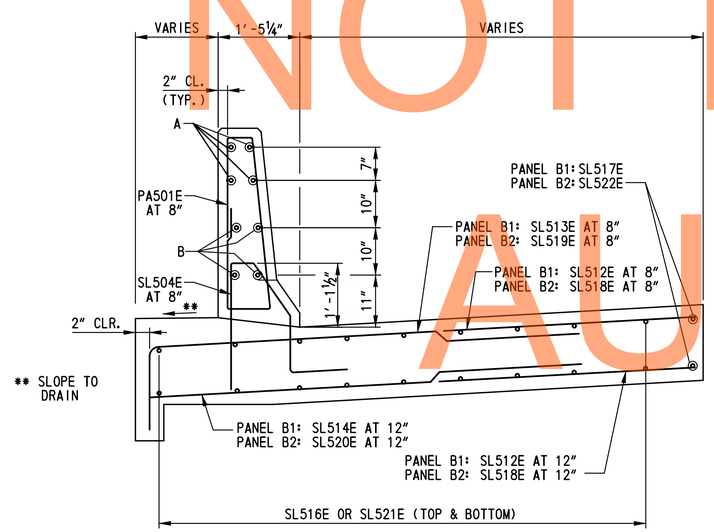
SCALE: ¾″ = 1′-0″



MOMENT SLAB REINFORCEMENT TYPICAL SECTION 3

(SLAB PANEL I.D. (1) TO (23))

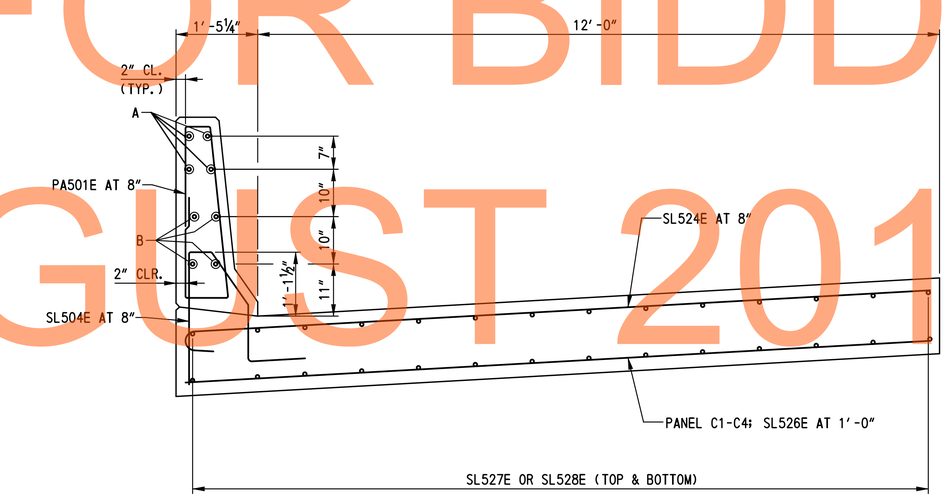
SCALE: ¾″ = 1′-0″



MOMENT SLAB REINFORCEMENT TYPICAL SECTION 2

(SLAB PANEL I.D. (B1) TO (B2))

SCALE: ¾″ = 1′-0″



MOMENT SLAB REINFORCEMENT TYPICAL SECTION 4

(SLAB PANEL I.D. (C1) TO (C4))

SCALE: ¾″ = 1′-0″

LEGEND:

A-		B-	
	PANEL A1; PA701E		PANEL A1; PA801E
	PANEL A2; PA702E		PANEL A2; PA802E
	PANEL B1; PA703E		PANEL B1; PA803E
	PANEL B2; PA704E		PANEL B2; PA804E
	PANEL 1; PA705E		PANEL 1; PA805E
	PANEL 2-14; PA706E		PANEL 2-14; PA806E
	PANEL 15; PA707E		PANEL 15; PA807E
	PANEL 16-22; PA706E		PANEL 16-22; PA806E
	PANEL 23; PA708E		PANEL 23; PA808E
	PANEL C1; PA709E		PANEL C1; PA809E
	PANEL C2-C4; PA706E		PANEL C2-C4; PA806E

NOTES:

1. TOLERANCE ON ALL JOINT SEALANT DETAILS DIMENSIONS SHOWN WITHOUT RANGES SHALL BE PLUS ⅛″, MINUS 0″.
2. PAYMENT FOR CONSTRUCTION OF MOMENT SLAB WILL BE MADE UNDER ITEM NO. 602014 - PORTLAND CEMENT CONCRETE MASONRY, APPROACH SLAB, CLASS D. PAYMENT FOR THE PREFORMED CORK JOINT FILLER, SILICONE SEALER, DOWEL BARS AND METAL EXPANSION SLEEVES SHALL BE INCIDENTAL TO THIS ITEM.
3. DOWEL BARS SHALL CONFORM TO 824.02(G).
4. DOWELS SHALL BE ASSEMBLED IN A RIGID FRAMEWORK, SEE STANDARD P-1. THE EXPANSION JOINT FRAMEWORKSHALL PROVIDE ADEQUATE SUPPORT TO MAINTAIN THE PREFORMED JOINT FILLER IN PROPER HORIZONTAL AND VERTICAL ALIGNMENT.
5. ANCHOR PINS SHALL BE USED TO SECURE THE FORMWORK ALONG THE SUBGRADE.
6. THE FREE MOVING OR UNANCHORED END OF ALL DOWEL BARS IN BOTH CONTRACTION AND EXPANSION JOINTS SHALL BE COATED AFTER INSTALLATION OF THE DEVICE UPON THE SUBGRADE AND IMMEDIATELY PRIOR TO THE POURING OF THE CONCRETE WITH GRAPHITE GREASE APPLIED WITH A GLOVED HAND. THIS SAME END OF ALL EXPANSION JOINT DOWELS SHALL BE CAPPED WITH A SNUG FITTING, CLOSED END METAL EXPANSION SLEEVE TEMPORARILY SECURED TO THE BAR SO AS TO PROVIDE A 1″ LONG OPEN SOCKET BEYOND THE BAR END AND TO LAP BACK 2″ ON THE BAR AT THE TIME OF INSTALLATION.
7. THE SILICONE SEALER SHALL BE ABLE TO ADHERE TO CONCRETE SUBSTRATES AND CONFORM TO FOLLOWING CRITERIA AFTER 21 DAYS AT 77° F:

ELONGATION, MINIMUM (PERCENT)	1400
JOINT MODULUS, AT 50 PERCENT ELONGATION, MAXIMUM (PSI)	7
JOINT MODULUS, AT 100 PERCENT ELONGATION, MAXIMUM (PSI)	8
JOINT MODULUS, AT 150 PERCENT ELONGATION, MAXIMUM (PSI)	9
ADHESION TO CONCRETE, MINIMUM ELONGATION, (PERCENT)	+600
ADHESION TO ASPHALT, MINIMUM ELONGATION, (PERCENT)	+600
JOINT MOVEMENT CAPABILITY, +100/-50, 10 CYCLES	NO FAILURE

8. RUMBLE STRIPS SHALL BE LOCATED IN THE MOMENT SLAB ADJACENT TO THE SHOULDER LINE. FOR RUMBLE STRIP DETAIL, SEE DWG. NO. DT-01.

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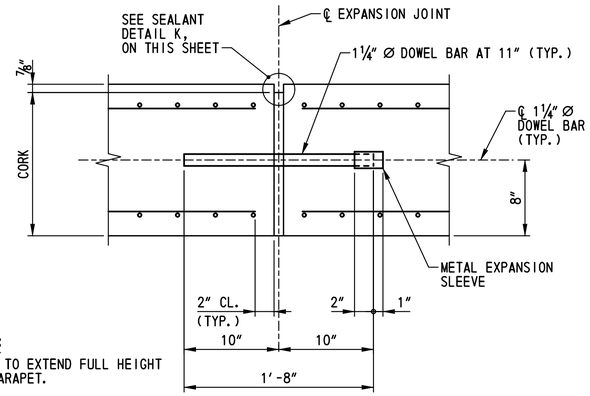
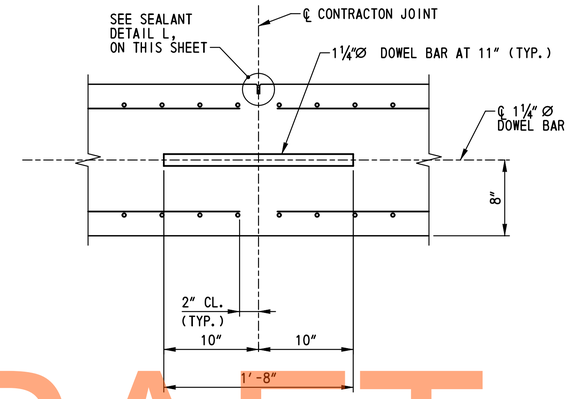
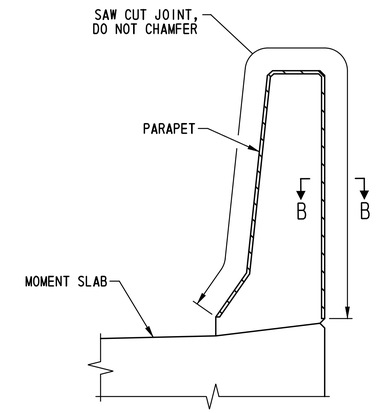


NOTES:
1. CORK TO EXTEND FULL HEIGHT OF PARAPET.
2. FOR EXPANSION JOINT BETWEEN APPROACH SLAB A AND MOMENT SLAB, SEE DETAIL B ON DWG. NO. AS-01.

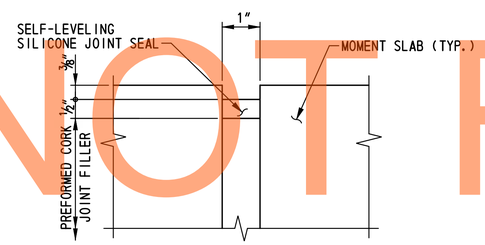
EXPANSION JOINT SECTION
SCALE: 1½"=1'-0"



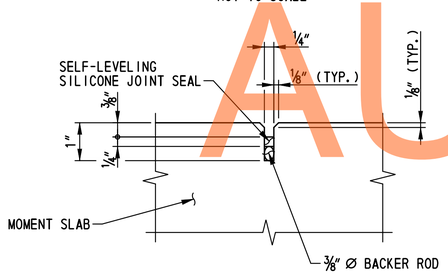
TYPICAL CONTRACTION JOINT SECTION
SCALE: 1½"=1'-0"



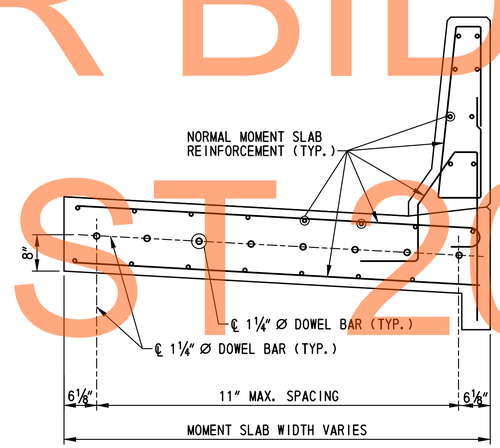
PARAPET CONTROL JOINT DETAIL
SCALE: 1"=1'-0"



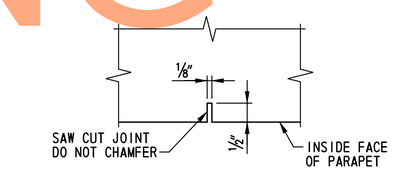
SEALANT DETAIL K
NOT TO SCALE



SEALANT DETAIL L
NOT TO SCALE



MOMENT SLAB JOINT TYPICAL SECTION
SCALE: ¾"=1'-0"



SECTION B-B
SCALE: 6"=1'-0"

NOTE:
SAW CUT CONTROL JOINT SHALL BE SAWED SAME DAY AS CONCRETE IS POURED.

NOTES:
1. SEE DWG. NO. MS-12 FOR MOMENT SLAB NOTES.
2. SEE DWG. NOS. MS-01 THROUGH MS-07 FOR MOMENT SLAB PLANS AND LOCATIONS OF PARAPET CONTROL JOINTS.

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RW1-3R
MS-13

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB REINFORCEMENT SECTION DETAILS – 2	SHEET NO. 349
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

\\tscient\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\MS13_RW1-3R.dgn
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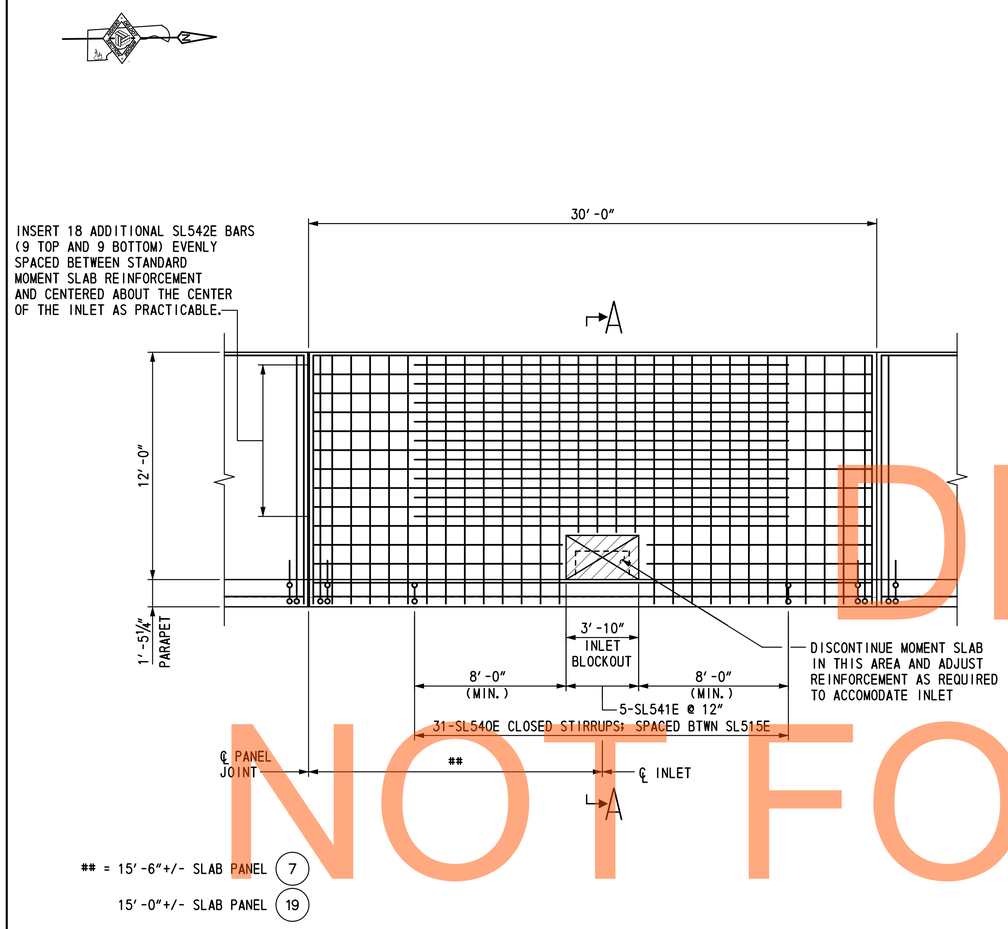
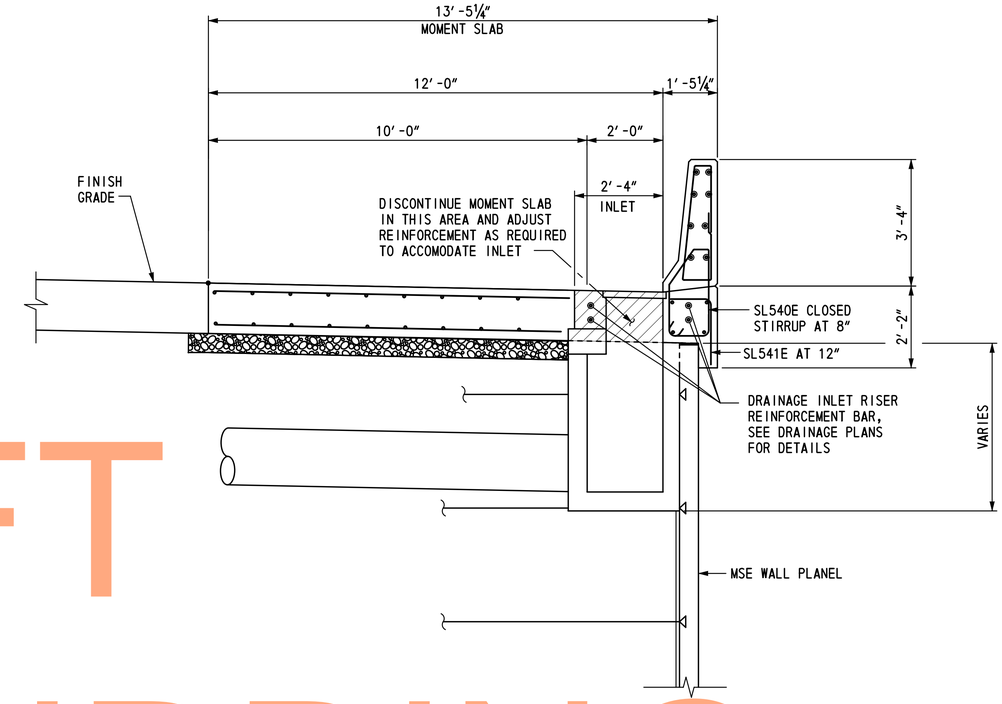


MOMENT SLAB MODIFICATIONS AT INLET

(SLAB PANEL I.D. 7 AND 19)

SCALE: ¼" = 1'-0"



SECTION A-A

SCALE: ½" = 1'-0"

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NOTES:

1. FOR MOMENT SLAB PLAN, SEE DWG NO. MS-01 TO MS-07.
2. FOR MOMENT SLAB TYPICAL SECTION DETAILS, SEE DWG. NO. RD-01.
3. FOR DRAINAGE INLET ASSEMBLY DETAILS, SEE DWG. NO. DT-09.

RW1-3R
MS-14

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MOMENT SLAB MODIFICATION DETAILS – 1	SHEET NO. 350
				COUNTY NEW CASTLE	DESIGNED BY: TSD		TOTAL SHTS. 491
					CHECKED BY: KEE		

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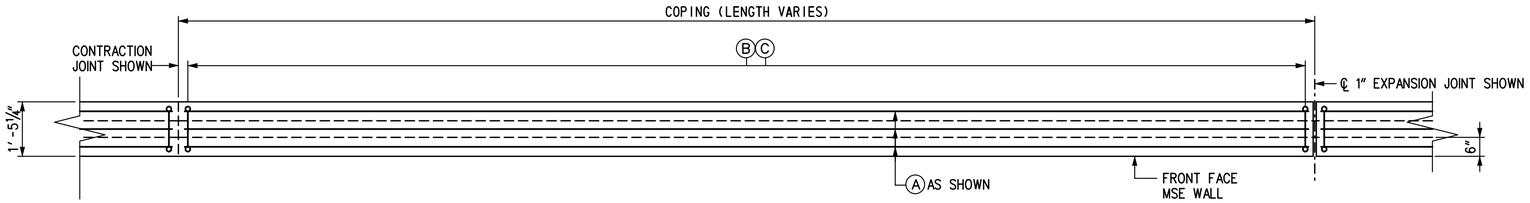
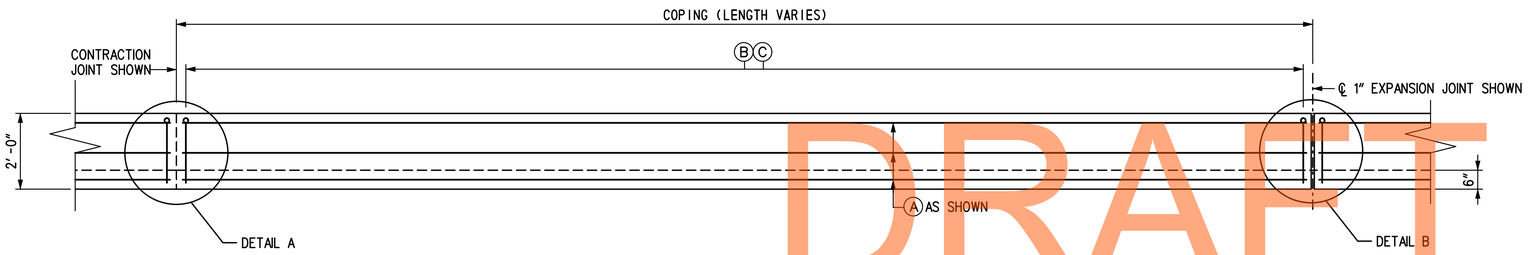


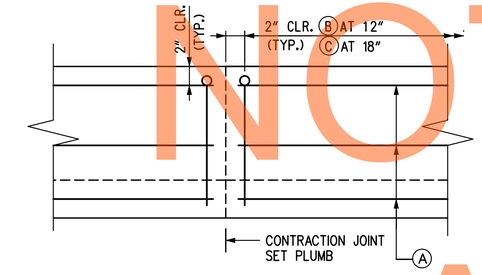
COPING PLAN
SCALE: ½" = 1'-0"



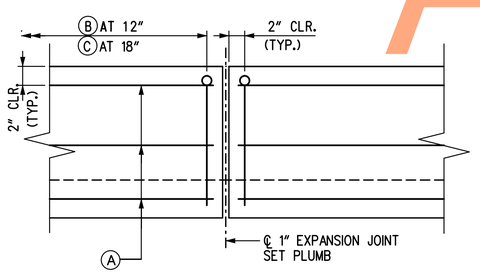
COPING ELEVATION
SCALE: ½" = 1'-0"

REINFORCEMENT TABLE

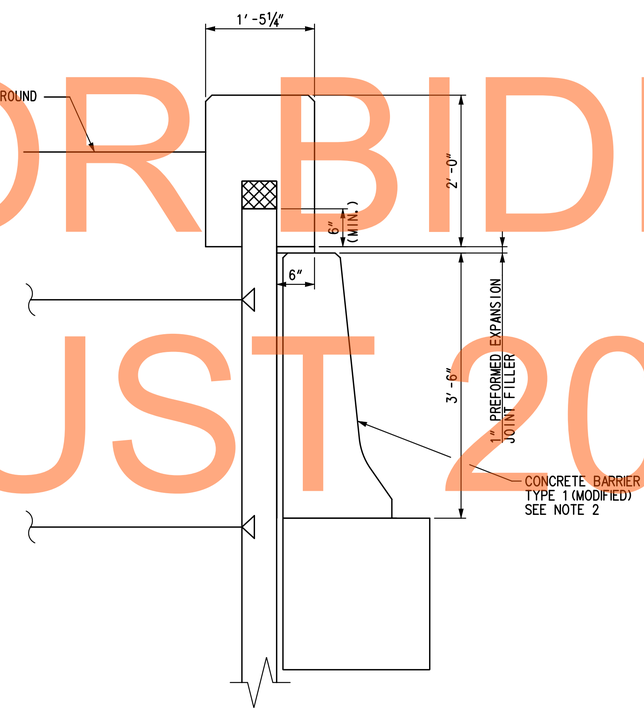
COPING I.D.	LENGTH	A	B	C
CP1, CP2, CP4 TO CP15 CP17 TO CP27 CP29 TO CP32	30'-0"	7 - MS501E	31 - MS506E AT 12"	21 - MS510E AT 18"
CP3	29'-9 ¾"	7 - MS502E	31 - MS506E AT 12"	21 - MS510E AT 18"
CP16	27'-1 ⅜"	7 - MS503E	28 - MS506E AT 12"	19 - MS510E AT 18"
CP28	18'-4 ¾"	7 - MS504E	19 - MS506E AT 12"	13 - MS510E AT 18"
CP33	14'-3 ⅛"	7 - MS505E	15 - ML506E AT 12"	11 - MS510E AT 18"



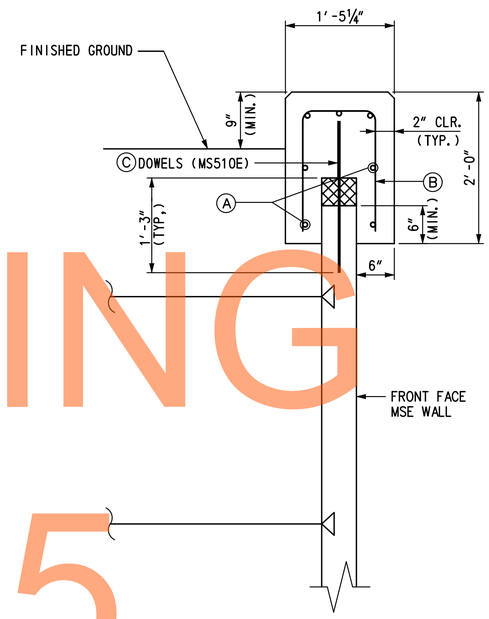
DETAIL A
SCALE: 1" = 1'-0"



DETAIL B
SCALE: 1" = 1'-0"



DETAIL A: (COPING CP1)
SCALE: 1" = 1'-0"



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

NOTES:

1. FOR COPING LOCATION SEE DWG. NO. MS-01 TO MS-07.
2. FOR ADDITIONAL BARRIER DETAILS, SEE DWG. NO. DT-04.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE: AS NOTED	US 301 & SR 1 INTERCHANGE	CONTRACT T200911302	BRIDGE NO. RW1-3R	MSE WALL COPING DETAILS	RW1-3R MS-15
				COUNTY NEW CASTLE	DESIGNED BY: TSD		SHEET NO. 351
					CHECKED BY: KEE		TOTAL SHTS. 491

(1) ANY MARK NUMBER WITH SUFFIX 'E' DENOTES EPOXY COATED REINFORCING STEEL.

(2) ALL MARK 'LOCATION PREFIXES' SHALL CONSIST OF TWO LETTERS AND ARE AS FOLLOWS: AB = ABUTMENT, AS = APPROACH SLAB, BC = BOX CULVERT, BW = BACKWALL, CL = COLUMN, DK = DECK, DL = DOWEL, FT = FOOTING, HW = HEADWALL, MS = MISC. BARS, PA = PARAPET, PR = PIER, SC = SHEETPILE CAP, SL = SLAB, TW = TOEWALL, WL = WALL (UNIQUE LOCATION), WW = WINGWALL

SPECIFICATIONS					BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)										
QTY.	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F/R	G	H	J	K	O
MOMENT SLAB															
80	5	7-00	SL501E	STR		7-00									
46	5	7-70	SL502E	1	0-70	7-00							0-50		
32	5	7-00	SL503E	STR		7-00									
364	5	5-100	SL504E	T15		2-30	0-52	1-12	1-00	1-00			0-73		1-11
20	5	30-20	SL505E	STR		30-20									
2	5	30-20	SL506E	STR		30-20									
73	5	7-60	SL507E	STR	0-70	7-60							0-50		
45	5	8-10	SL508E	1	0-70	7-60							0-50		
29	5	7-60	SL509E	STR		7-60									
2	5	27-80	SL511E	STR		27-80									
22	5	27-110	SL510E	STR		27-110									
71	5	9-10	SL512E	STR		9-10									
43	5	10-90	SL513E	17		1-80	9-10								
28	5	9-10	SL514E	STR		9-10									
1051	5	6-60	SL515E	T15		2-110	0-52	1-12	1-00	1-00			0-73		1-11
28	5	27-80	SL516E	STR		27-80									
2	5	27-80	SL517E	STR		27-80									
68	5	8-90	SL518E	STR		8-90									
41	5	10-50	SL519E	17		1-80	8-90								
27	5	8-90	SL520E	STR		8-90									
26	5	26-80	SL521E	STR		26-80									
2	5	26-110	SL522E	STR		26-110									
13	5	13-100	SL523E	1	0-70	13-30							0-50		
1318	5	13-80	SL524E	1	0-70	13-10							0-50		
8	5	13-30	SL525E	STR		13-30									
827	5	13-10	SL526E	STR		13-10									
672	5	29-80	SL527E	STR		29-80									
28	5	34-80	SL528E	STR		34-80									
28	5	30-40	SL529E	STR		30-40									
28	5	24-80	SL530E	STR		24-80									
62	5	7-72	SL540E	T11	0-60	1-11	1-00	1-22	1-11	2-22	0-60	1-00			
10	5	2-90	SL541E	17		1-10	1-80								
36	5	20-00	SL542E	STR		20-00									

SPECIFICATIONS					BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)										
QTY.	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F/R	G	H	J	K	O
1415	5	9-31	PA501E	PA		2-62	0-90	3-01	0-50	2-62		3-00		0-40	
4	7	30-20	PA701E	STR		30-20									
4	7	27-110	PA702E	STR		27-110									
4	7	27-100	PA703E	STR		27-100									
4	7	26-80	PA704E	STR		26-80									
4	7	27-90	PA705E	STR		27-90									
92	7	29-80	PA706E	STR		29-80									
4	7	30-40	PA707E	STR		30-40									
4	7	24-80	PA708E	STR		24-80									
4	7	34-80	PA709E	STR		34-80									
4	8	30-20	PA801E	STR		30-20									
4	8	27-110	PA802E	STR		27-110									
4	8	27-100	PA803E	STR		27-100									
4	8	26-80	PA804E	STR		26-80									
4	8	27-90	PA805E	STR		27-90									
92	8	29-80	PA806E	STR		29-80									
4	8	30-40	PA807E	STR		30-40									
4	8	24-80	PA808E	STR		24-80									
4	8	34-80	PA809E	STR		34-80									
203	5	29-80	MS501E	STR		29-80									
7	5	29-60	MS502E	STR		29-60									
7	5	26-92	MS503E	STR		26-92									
7	5	18-10	MS504E	STR		18-10									
7	5	13-110	MS505E	STR		13-110									
992	5	4-51	MS506E	17		1-80	1-11	1-80							
673	5	2-00	MS510E	STR		2-00									

SPECIFICATIONS					BENDING DIMENSIONS (FEET-INCHES /QUARTER INCH)										
QTY.	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F/R	G	H	J	K	O

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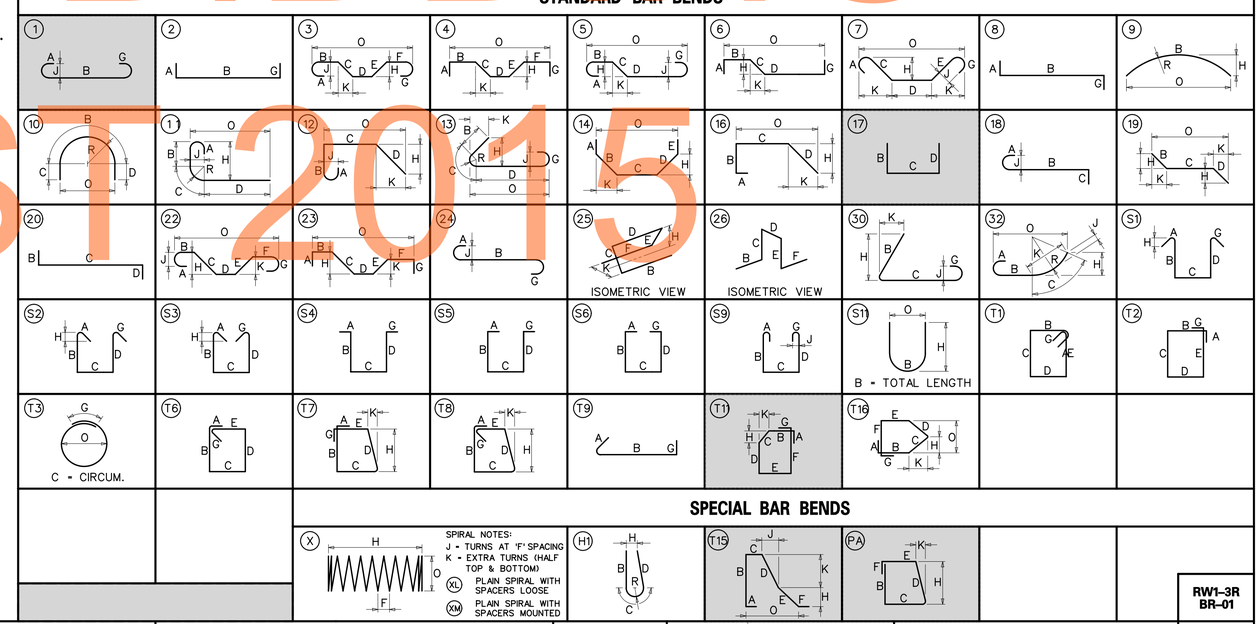
ASTM STANDARD ENGLISH REINFORCING BARS

BAR SIZE	NOMINAL DIMENSIONS: DIAMETER (INCHES)	AREA (INCHES²)	WEIGHT (LBS./FT.)	RECOMMENDED END HOOKS, APPLICABLE TO ALL GRADES: 180° HOOKS D	180° HOOKS A OR G	180° HOOKS J	90° HOOKS A OR G	STIRRUP AND TIE HOOKS, APPLICABLE TO ALL GRADES: 90° HOOK D	90° HOOK A OR G	135° HOOK A OR G	135° HOOK A OR G
3	0.375	0.110	0.376	2¼"	5"	3"	6"	1½"	4"	4"	2½"
4	0.500	0.200	0.668	3"	6"	4"	8"	2"	4½"	4½"	3"
5	0.625	0.310	1.043	3¾"	7"	5"	10"	2½"	6"	5½"	3¾"
6	0.750	0.440	1.502	4½"	8"	6"	1-0"	4½"	1-0"	8"	4½"
7	0.875	0.600	2.044	5¼"	10"	7"	1-2"	5¼"	1-2"	9"	5¼"
8	1.000	0.790	2.670	6"	11"	8"	1-4"	6"	1-4"	10½"	6"
9	1.128	1.000	3.400	9½"	1-3"	11¾"	1-7"				
10	1.270	1.270	4.303	10¾"	1-5"	1-1¼"	1-10"				
11	1.410	1.560	5.313	1-0"	1-7"	1-2¾"	2-0"				
14	1.693	2.250	7.650	1-6¼"	2-3"	1-9¾"	2-7"				
18	2.257	4.000	13.600	2-0"	3-0"	2-4½"	3-5"				

NOTES:

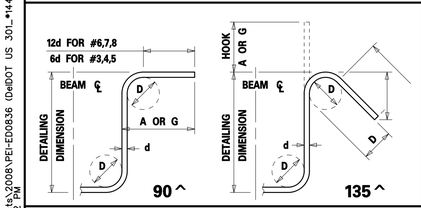
1. FIGURES SHOWN IN CIRCLES REPRESENT BAR BEND TYPES.
2. STANDARD BAR BENDS INCLUDE ONLY THOSE TYPES BELOW, INDICATED AS SUCH.
3. ALL DIMENSIONS OUT-TO-OUT, EXCEPT "A" AND "G" ON STD. 180° AND 135° HOOKS.
4. "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD 'ACI' HOOKS ARE TO BE USED.
5. WHERE "J" IS NOT SHOWN, "J" WILL BE KEPT EQUAL TO OR LESS THAN "H" ON TYPES 3, 5 AND 22. WHERE "J" CAN EXCEED "H", IT SHALL BE SHOWN.
6. "H" DIMENSIONS OF STIRRUPS TO BE SHOWN AS NEEDED TO FIT WITHIN THE CONCRETE.
7. UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR (EXCEPT FOR BEND TYPES 11 AND 13).
8. WHERE SLOPE DIFFERS FROM 45° OFFSET, "H" AND "K" MUST BE SHOWN.
9. WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES, BENDING DIMENSIONS REQUIRING CLOSER FABRICATION SHOULD HAVE LIMITS INDICATED.
10. FOR RECOMMENDED DIAMETER "D", OF BENDS, HOOKS, ETC., REFER TO TABLE ABOVE, 'CRSI' OR 'ACI' TABLES WHERE APPLICABLE AND REQUIRED.
11. TYPE S1-S6, S11, T1-T3 AND T6-T9 APPLICABLE TO BAR SIZES #3 THROUGH #8.

STANDARD BAR BENDS

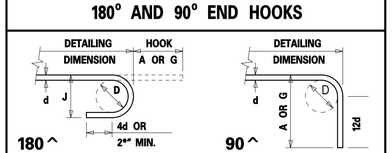


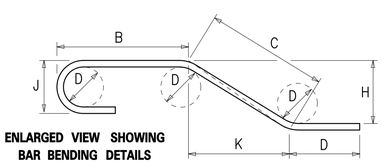
SPECIAL BAR BENDS

STIRRUP AND TIE HOOKS



180° AND 90° END HOOKS





ADDENDUMS / REVISIONS

DELAWARE DEPARTMENT OF TRANSPORTATION

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY:	TSD
COUNTY	CHECKED BY:	KEE
NEW CASTLE		

MOMENT SLAB REINFORCEMENT BAR LIST

RW1-3R BR-01

SHEET NO. 352

TOTAL SHTS. 491

\\tsrigint\S\Projects\2008\PEI-ED0836 (DelDOT US 301_#1445)\7. Transportation\1. Bridges\Drawings\Final_PS&E\RW1-3 & RW1-3R\RW1-3R\BR01_rw1-3R.dgn
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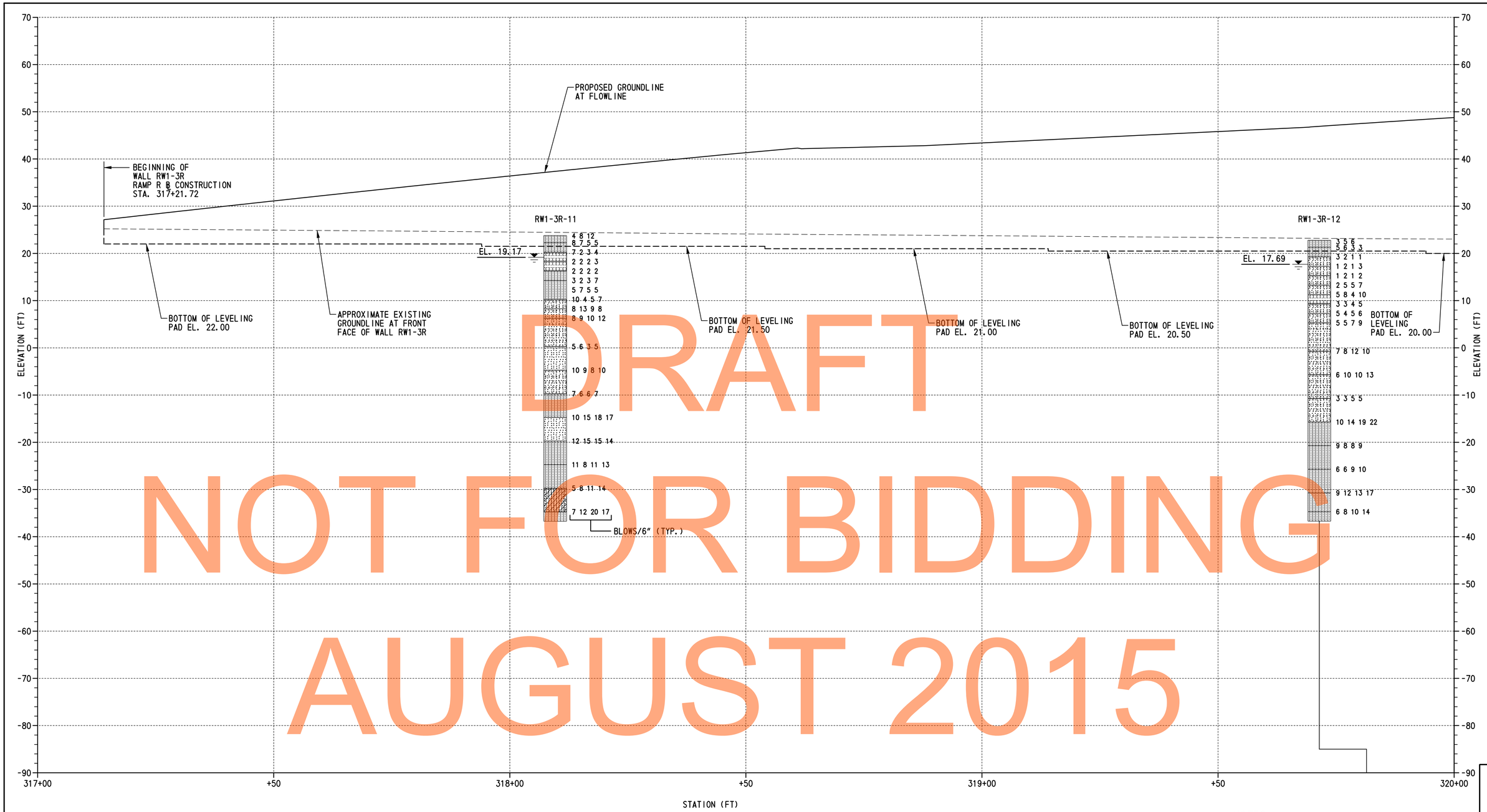

DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- SILTY SAND
- LOW PLASTICITY CLAY
- SILTY GRAVEL
- WATER TABLE AT BORING COMPLETION
- POORLY GRADED SAND WITH SILT
- SILT
- WELL GRADED SAND WITH SILT

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-11	318+09.61	29.55' RT.	557025.0600	590527.0500
RW1-3R-12	319+81.45	42.43' RT.	557194.6800	590561.9600

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-01.
2. BORING RW1-3R-12 IS SHOWN OFFSET AS INDICATED FOR CLARITY.
3. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R BO-01

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

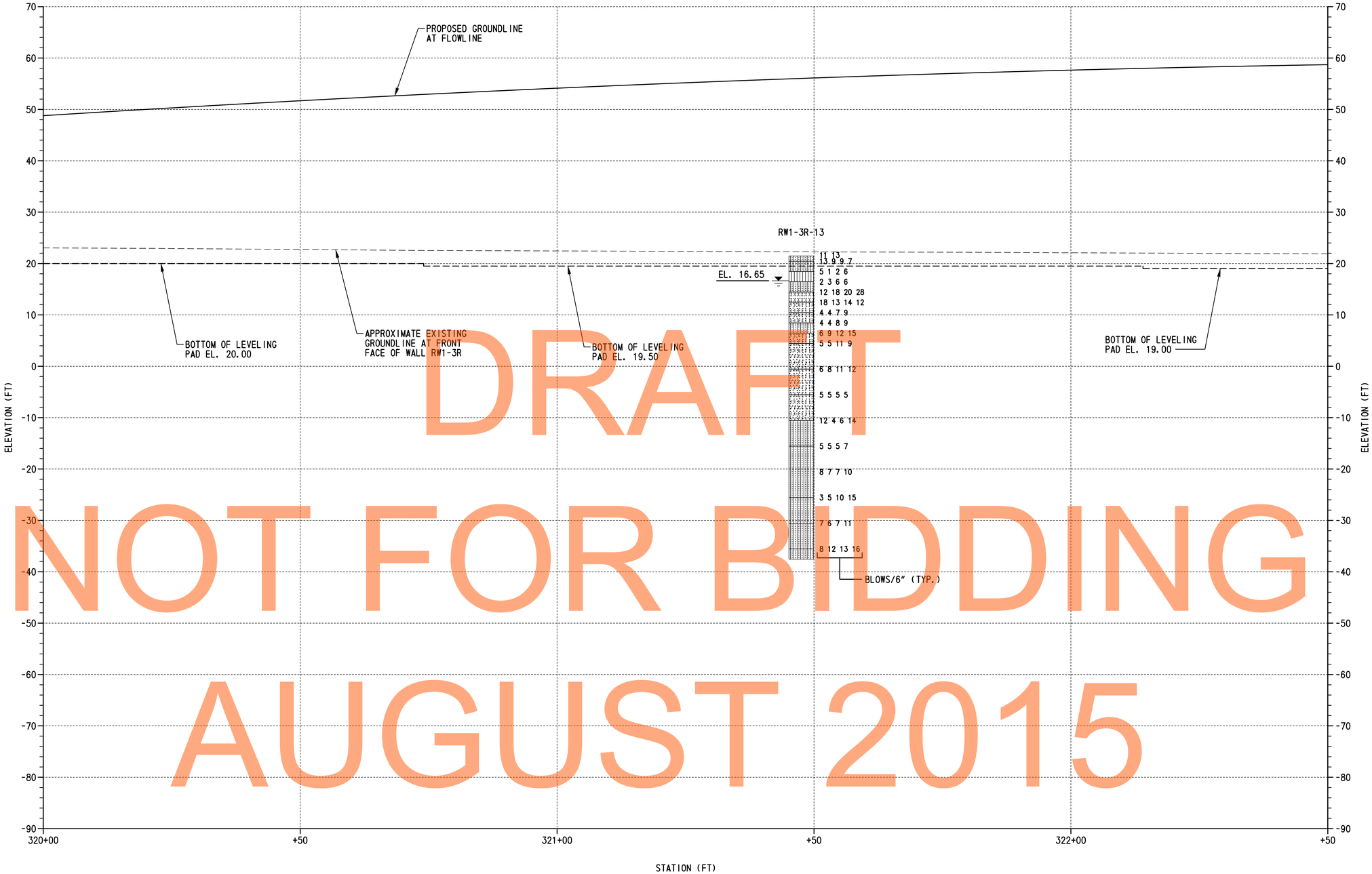
SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY	CHECKED BY: P.S.D.	
NEW CASTLE		

BORING PROFILE – 1

SHEET NO. 353
TOTAL SHTS. 491



DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- SILTY SAND
- LOW PLASTICITY CLAY
- SILTY GRAVEL
- WATER TABLE AT BORING COMPLETION
- POORLY GRADED SAND WITH SILT
- SILT
- WELL GRADED SAND WITH SILT

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-13	321+47.52	50.19' RT.	557360.0765	590587.2207

NOTES:

1. FOR BORING LOCATION, SEE DWG. NO. PE-02.
2. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R
BO-02

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY		
NEW CASTLE	CHECKED BY: P.S.D.	

BORING PROFILE – 2

SHEET NO. 354
TOTAL SHTS. 491

DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- WELL GRADED SAND WITH SILT
- SILTY SAND
- LOW PLASTICITY CLAY
- POORLY GRADED GRAVEL
- WELL GRADED GRAVEL
- SILTY GRAVEL
- POORLY GRADED SAND WITH SILT
- HIGH PLASTICITY CLAY
- SILT
- POORLY GRADED GRAVEL WITH SILT
- WATER TABLE AT BORING COMPLETION

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3R-14	322+96.17	38.74' RT.	557510.0729	590588.2641
BR1-3-04	323+04.28	00.21' LT.	557521.0000	590550.0000
RW1-3R-15	325+38.12	36.64' LT.	557652.6000	590595.1900
RW1-3-13	324+66.21	32.90' LT.	557684.2400	590527.1900

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-03.
2. BORING RW1-3R-14 IS SHOWN OFFSET AS INDICATED FOR CLARITY.
3. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R
BO-03

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

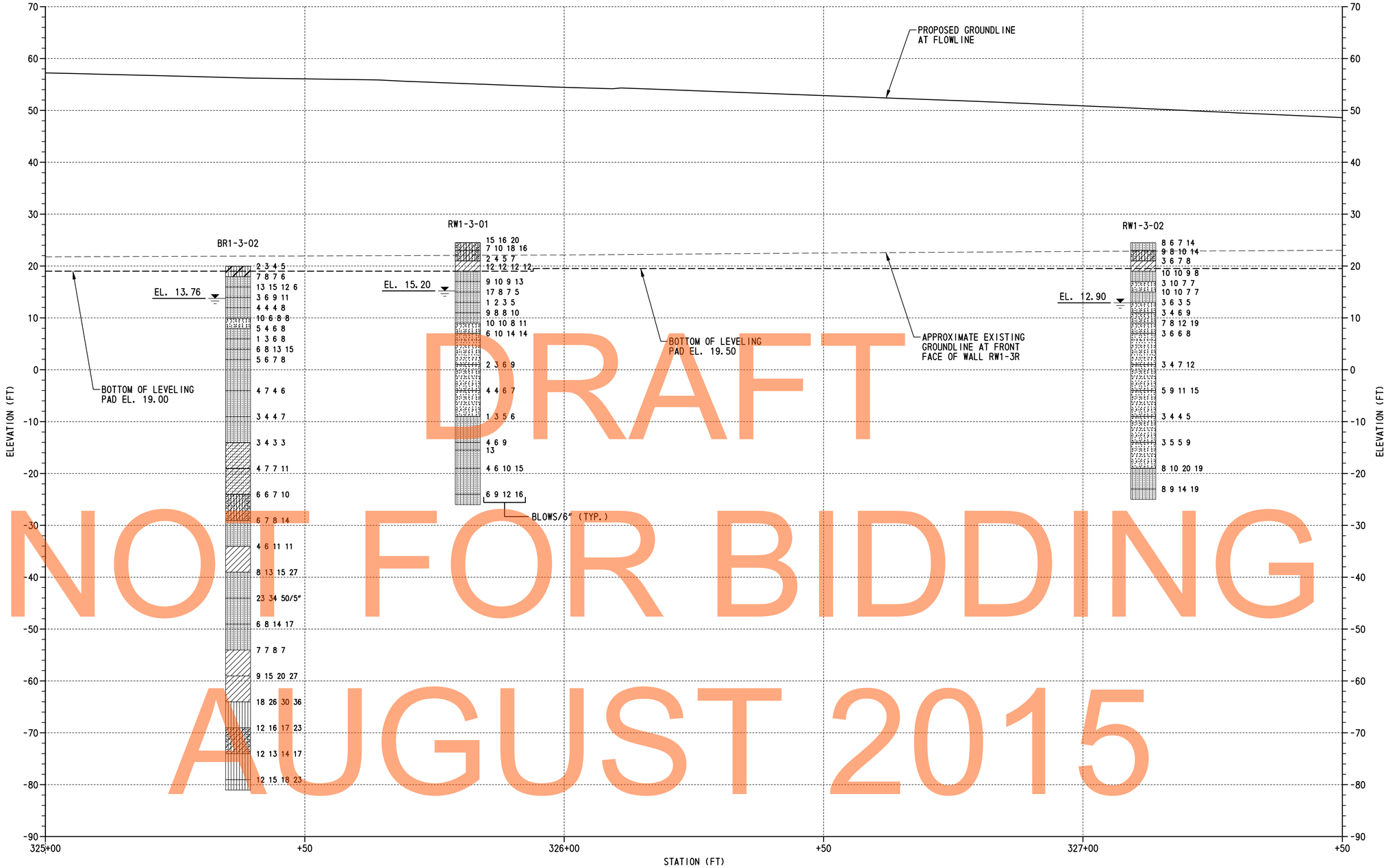
SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY		
NEW CASTLE	CHECKED BY: P.S.D.	

BORING PROFILE – 3

SHEET NO. 355
TOTAL SHTS. 491



DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- WELL GRADED SAND WITH SILT
- SILTY SAND
- LOW PLASTICITY CLAY
- POORLY GRADED GRAVEL
- WELL GRADED GRAVEL
- SILTY GRAVEL
- POORLY GRADED SAND WITH SILT
- HIGH PLASTICITY CLAY
- SILT
- POORLY GRADED GRAVEL WITH SILT
- WATER TABLE AT BORING COMPLETION

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
BR1-3-02	325+37.14	11.79' RT.	557753.0000	590575.0000
RW1-3-01	325+81.42	37.86' LT.	557799.0000	590527.0000
RW1-3-02	327+11.63	28.82' LT.	557928.3400	590539.2330

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-04.
2. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R
BO-04

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

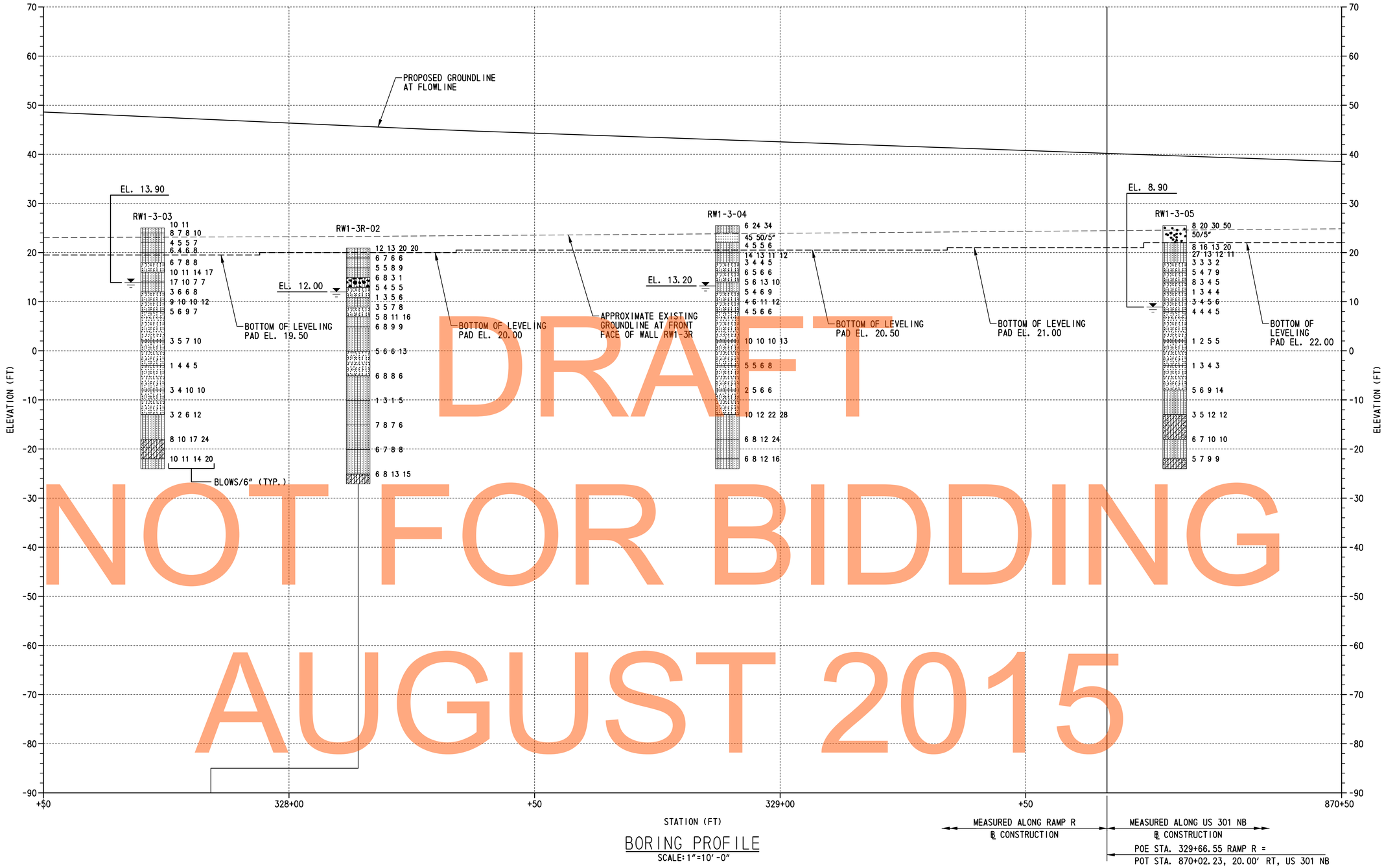
SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY		
NEW CASTLE	CHECKED BY: P.S.D.	

BORING PROFILE – 4

SHEET NO. 356
TOTAL SHTS. 491



DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- WELL GRADED SAND WITH SILT
- SILTY SAND
- LOW PLASTICITY CLAY
- POORLY GRADED GRAVEL
- WELL GRADED GRAVEL
- SILTY GRAVEL
- POORLY GRADED SAND WITH SILT
- HIGH PLASTICITY CLAY
- SILT
- POORLY GRADED GRAVEL WITH SILT
- WATER TABLE AT BORING COMPLETION

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-03	327+72.23	45.16' LT.	557989.0900	590523.7200
RW1-3R-02	327+84.08	24.97' RT.	558000.0000	590594.0000
RW1-3-04	328+89.24	33.33' LT.	558098.0000	590537.0000
RW1-3-05	870+16.02	11.64' LT.	558197.0000	590540.0000

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-05.
2. BORING RW1-3R-02 IS SHOWN OFFSET AS INDICATED FOR CLARITY.
3. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET: 0, 10, 20, 30

RW1-3R
BO-05

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

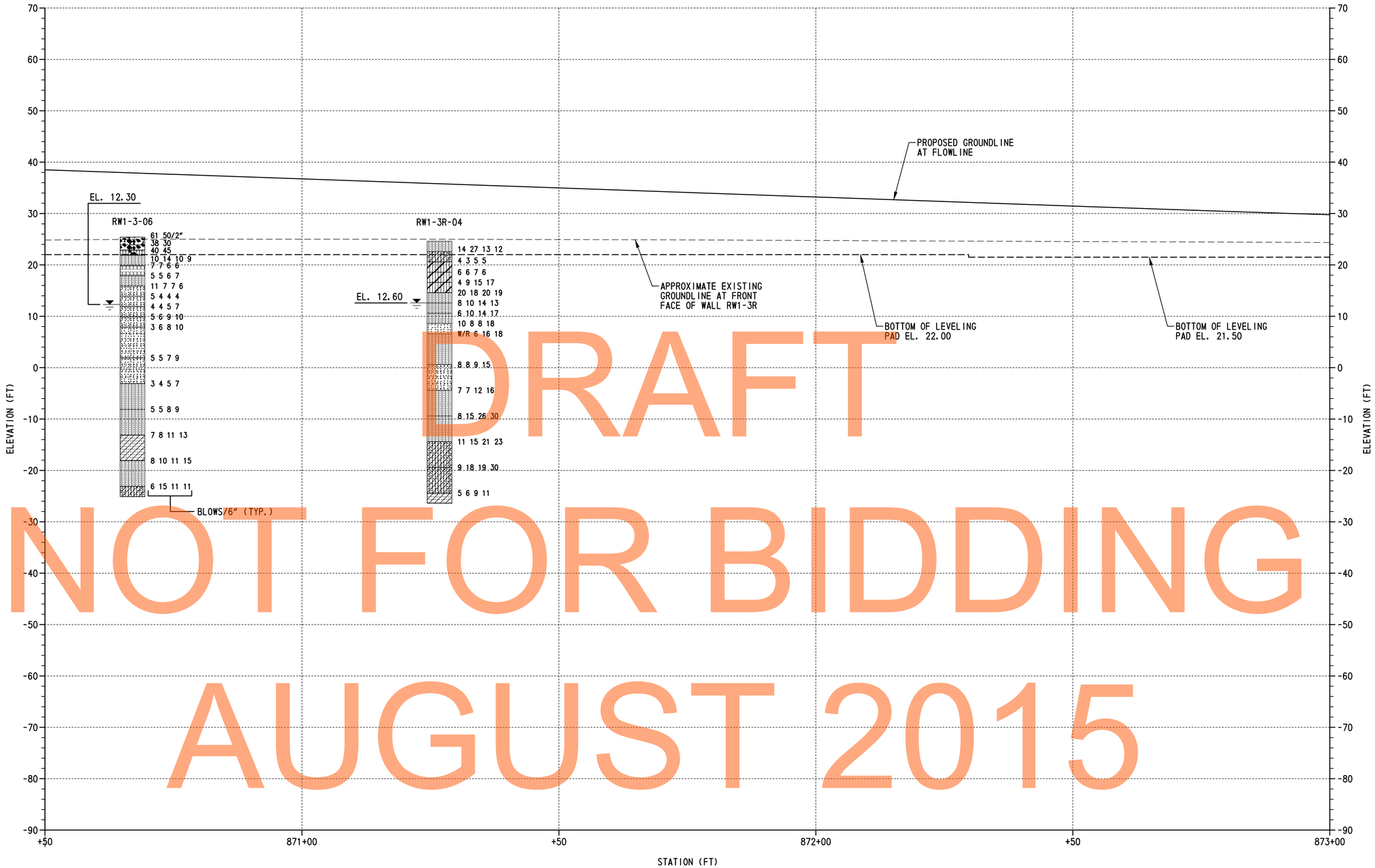
SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY	CHECKED BY: P.S.D.	
NEW CASTLE		

BORING PROFILE – 5

SHEET NO. 357
TOTAL SHTS. 491



DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- WELL GRADED SAND WITH SILT
- SILTY SAND
- LOW PLASTICITY CLAY
- POORLY GRADED GRAVEL
- WELL GRADED GRAVEL
- SILTY GRAVEL
- POORLY GRADED SAND WITH SILT
- HIGH PLASTICITY CLAY
- SILT
- POORLY GRADED GRAVEL WITH SILT
- WATER TABLE AT BORING COMPLETION

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-06	870+67.03	11.32' LT.	558248.0000	590541.0000
RW1-3R-04	871+26.77	43.89' RT.	558307.0000	590597.0000

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-06.
2. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R
BO-06

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

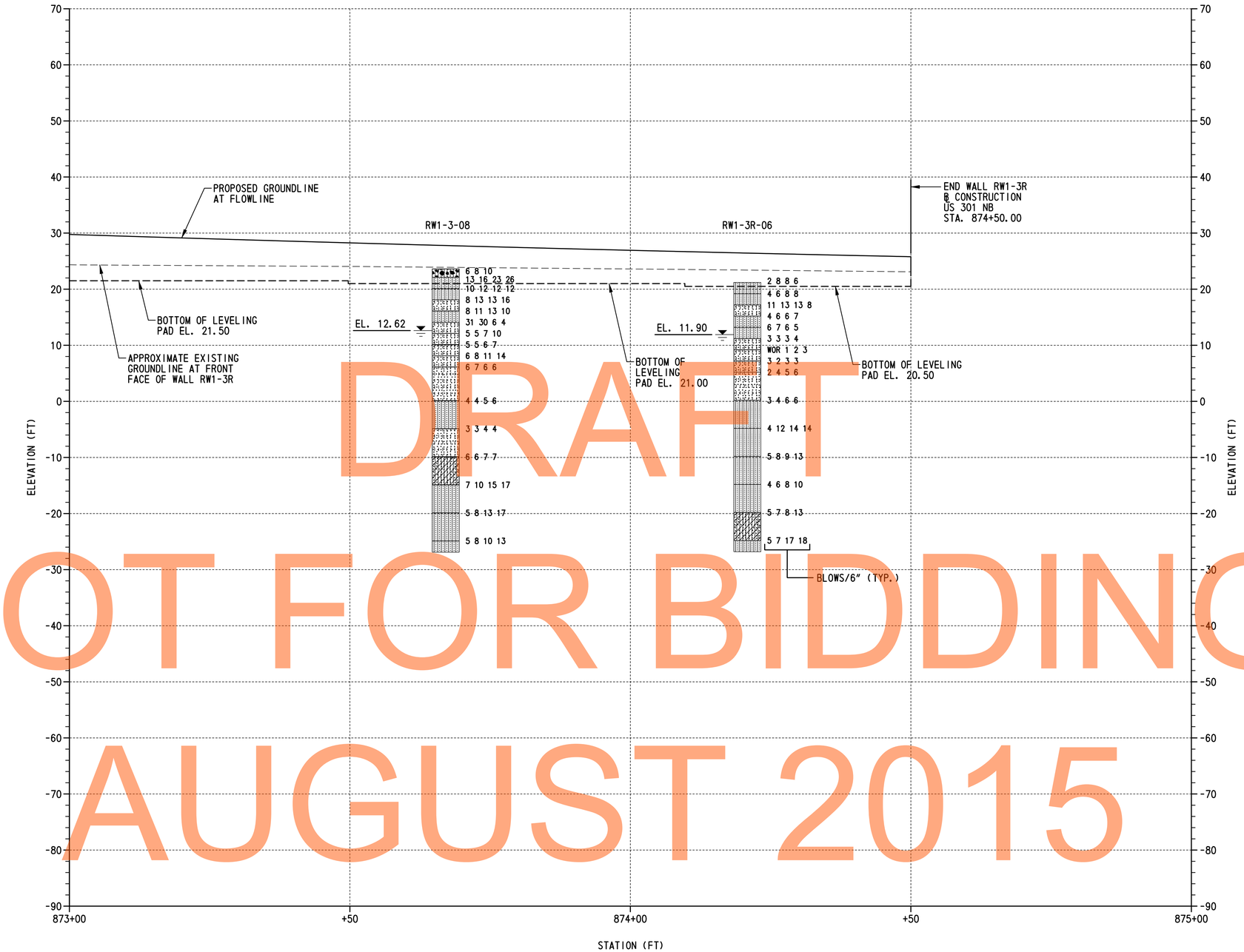
SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY		
NEW CASTLE	CHECKED BY: P.S.D.	

BORING PROFILE – 6

SHEET NO. 358
TOTAL SHTS. 491



DRAFT
NOT FOR BIDDING
AUGUST 2015

BORING PROFILE

SCALE: 1"=10'-0"

WOR = WEIGHT OF ROD

LEGEND:

- POORLY GRADED CLAYEY SILTY SAND
- CLAYEY SAND
- SILTY LOW PLASTICITY CLAY
- POORLY GRADED SAND
- WELL GRADED SAND WITH SILT
- SILTY SAND
- LOW PLASTICITY CLAY
- POORLY GRADED GRAVEL
- WELL GRADED GRAVEL
- SILTY GRAVEL
- POORLY GRADED SAND WITH SILT
- HIGH PLASTICITY CLAY
- SILT
- POORLY GRADED GRAVEL WITH SILT
- WATER TABLE AT BORING COMPLETION

TEST BORINGS				
BORING DESIGNATION	STATION	OFFSET	NORTHING	EASTING
RW1-3-08	873+67.09	9.30' LT.	558548.0000	590547.0000
RW1-3R-06	874+20.85	47.99' RT.	558601.0000	590605.0000

NOTES:

1. FOR BORING LOCATIONS, SEE DWG. NO. PE-07.
2. RESULTS CONDUCTED ON SAMPLES RECOVERED ARE REPORTED ON THE BORING LOGS. LOGS, LABORATORY TESTING AND CPT DATA ARE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, SEE CD.

VERTICAL SCALE FEET 0 10 20 30

RW1-3R
BO-07

DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 10 20 30 FEET

US 301 & SR 1 INTERCHANGE

CONTRACT	BRIDGE NO.	RW1-3R
T200911302	DESIGNED BY: W.R.A.	
COUNTY		
NEW CASTLE	CHECKED BY: P.S.D.	

BORING PROFILE – 7

SHEET NO. 359
TOTAL SHTS. 491

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