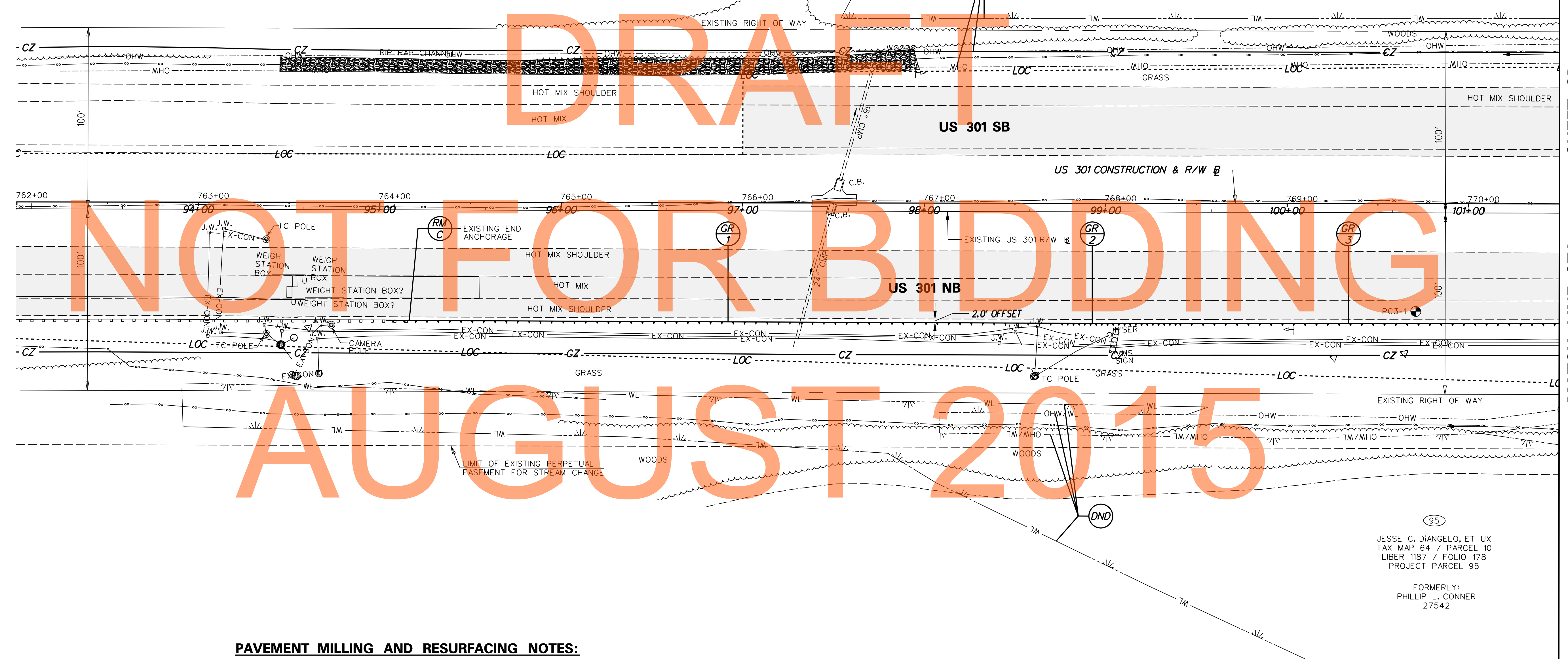


GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	GALVANIZED SBGR, TYPE 1-27	94+53.27	64.90	375.00
2	GALVANIZED SBGR, TYPE 2-27	98+78.27	66.16	62.50
3	GALVANIZED SBGR, TYPE 1-27	99+40.77	66.17	278.00

**BEGIN
CONTRACT T200811301
STATION 62+75**

92
LARRY J. ZANNINO, JR.
TAX MAP 64 / PARCEL 1
LIBER NDS 440 / LIBER 702
PROJECT PARCEL 92



NOT FOR BIDDING

AUGUST 2015

PAVEMENT MILLING AND RESURFACING NOTES:

- BEGIN MILL AND OVERLAY OF NORTHBOUND US 301 AT STA 62+75 OR AS NECESSARY TO INCLUDE ENTIRE LIMIT OF TEMPORARY MARKINGS. MILL AND OVERLAY WORK IS CONTINUOUS THROUGH STA 108+25 EVEN THOUGH SOME AREAS ARE NOT SHOWN IN PLAN VIEW.
- BEGIN MILL AND OVERLAY OF SOUTHBOUND US 301 AT STA 97+00 OR AS NECESSARY TO INCLUDE ENTIRE LIMIT OF TEMPORARY MARKINGS.
- UNLESS OTHERWISE SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-1	100+70.93	59.38	4" HMA OVER 3/4" ST

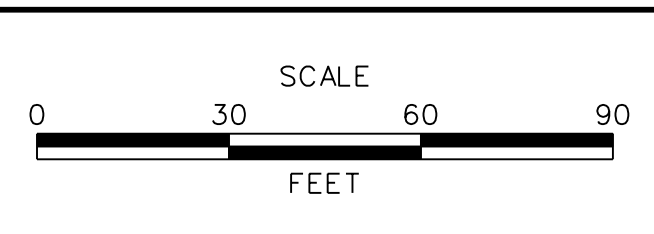
95
JESSE C. DIANGELO, ET UX
TAX MAP 64 / PARCEL 10
LIBER 1187 / FOLIO 178
PROJECT PARCEL 95

FORMERLY:
PHILLIP L. CONNER
27542

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ADDENDUMS / REVISIONS



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY CECIL, MD	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-01
SHEET NO. 58
TOTAL SHTS. 850

MATCH LINE STA 101+50 SHEET CP-02

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
109	109+00.00	0.00	SINGLE TYPE "K" MOD	K	65.26	61.99

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
109	24" RCP	IV	102.0	0.007	61.99	61.29

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
109	24" RCP	0.007	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
109	CLASS 1	9 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
1	16.50'	64.37

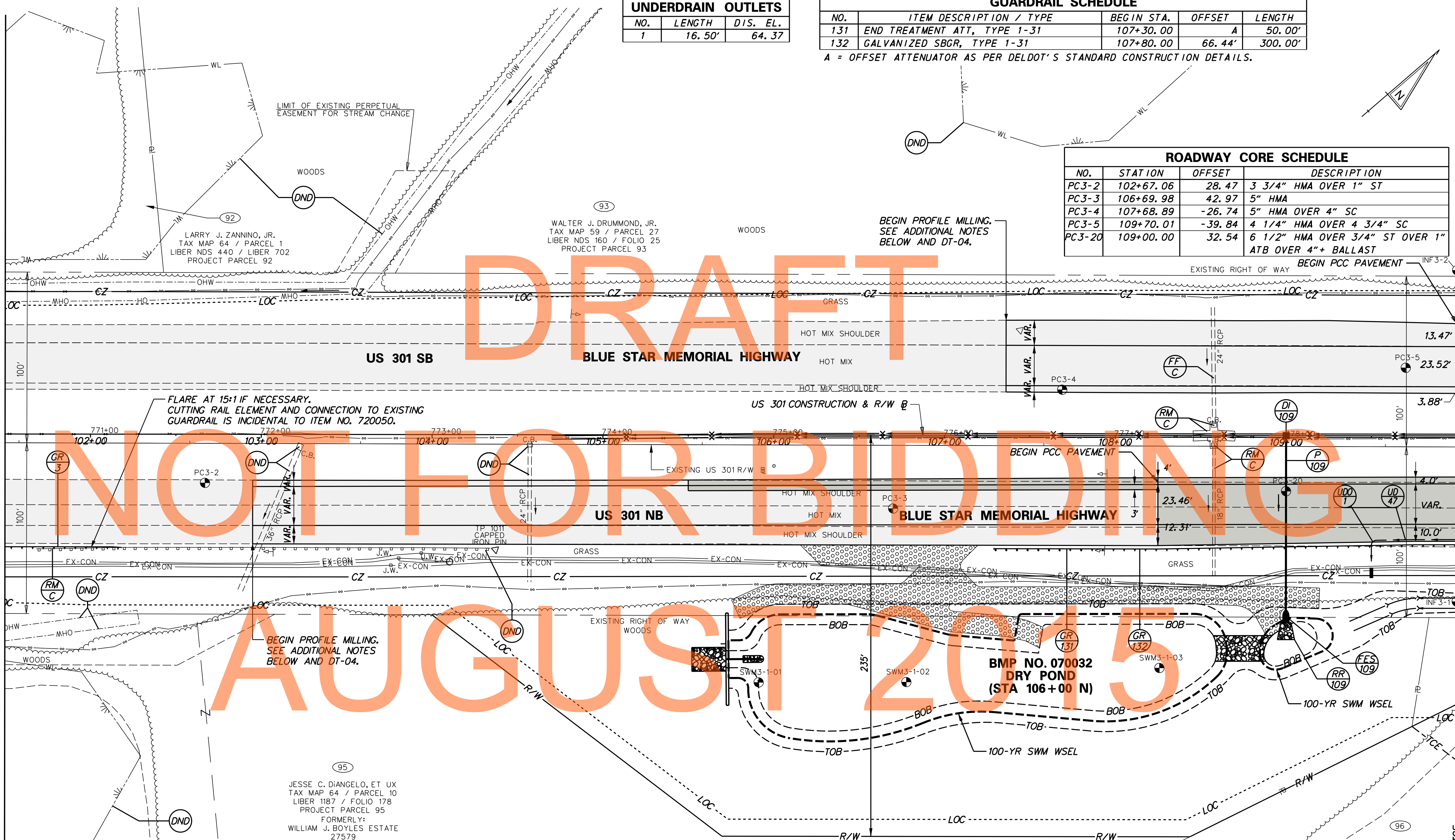
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
131	END TREATMENT ATT, TYPE 1-31	107+30.00	A	50.00'
132	GALVANIZED SBGR, TYPE 1-31	107+80.00	66.44'	300.00'

A = OFFSET ATTENUATOR AS PER DELDOT'S STANDARD CONSTRUCTION DETAILS.

ROADWAY CORE SCHEDULE				
NO.	STATION	OFFSET	DESCRIPTION	
PC3-2	102+67.06	28.47	3 3/4" HMA OVER 1" ST	
PC3-3	106+69.98	42.97	5" HMA	
PC3-4	107+68.89	-26.74	5" HMA OVER 4" SC	
PC3-5	109+70.01	-39.84	4 1/4" HMA OVER 4 3/4" SC	
PC3-20	109+00.00	32.54	6 1/2" HMA OVER 3/4" ST OVER 1" ATB OVER 4"+ BALLAST	

MATCH LINE STA 101+50 SHEET CP-01

MATCH LINE STA 110+00 SHEET CP-03

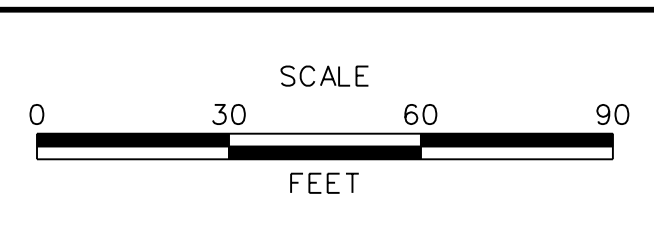


- PAVEMENT MILLING AND RESURFACING NOTES:**
- BEGIN MILL AND OVERLAY OF NORTHBOUND US 301 AT STA 62+75 OR AS NECESSARY TO INCLUDE ENTIRE LIMIT OF TEMPORARY MARKINGS. MILL AND OVERLAY WORK IS CONTINUOUS THROUGH STA 108+25 EVEN THOUGH SOME AREAS ARE NOT SHOWN IN PLAN VIEW.
 - BEGIN MILL AND OVERLAY OF SOUTHBOUND US 301 AT STA 97+00 OR AS NECESSARY TO INCLUDE ENTIRE LIMIT OF TEMPORARY MARKINGS.
 - UNLESS OTHERWISE SPECIFIED, OVERLAY WIDTHS SHALL MATCH EXISTING WIDTHS.

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

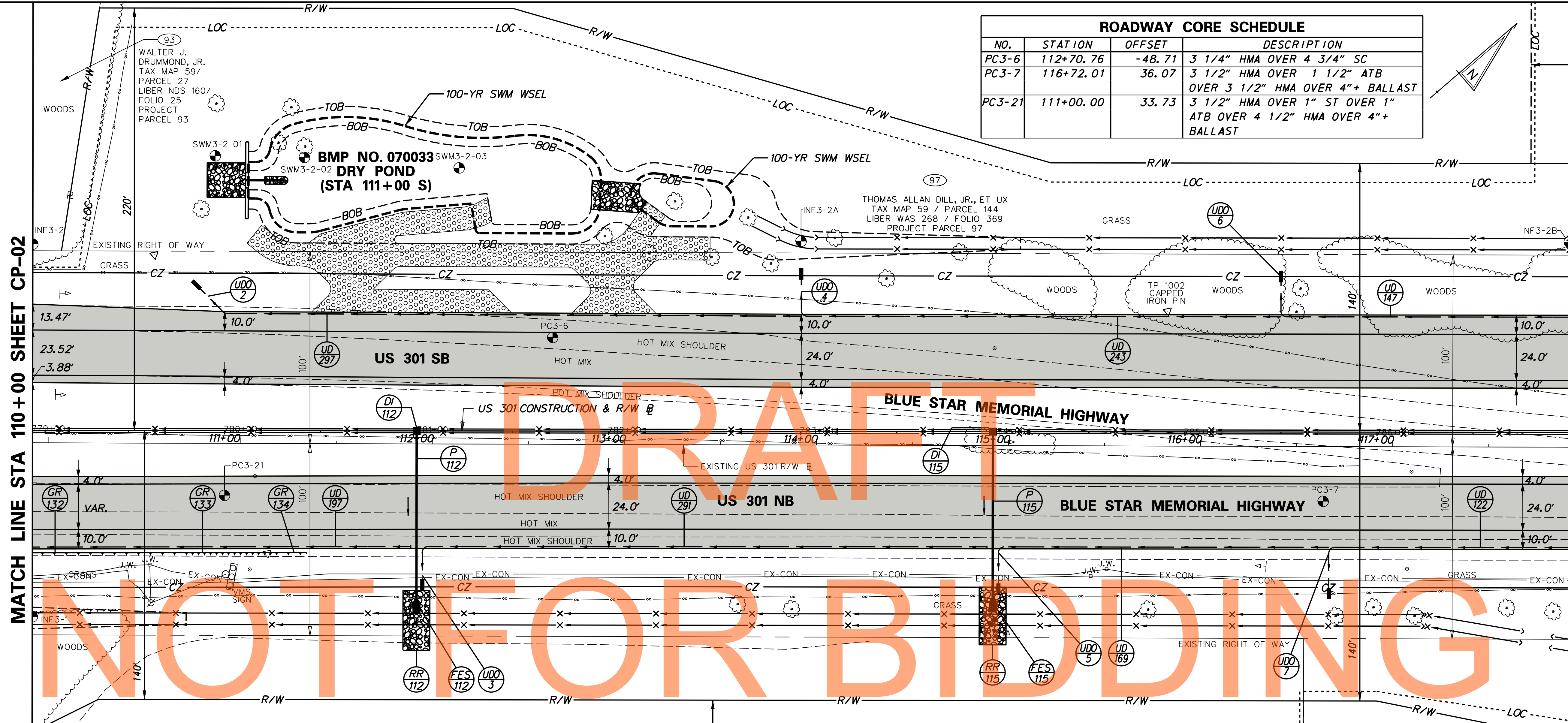
CONTRACT T200811301	BRIDGE NO.
COUNTY CECIL, MD	DESIGNED BY: MFM CHECKED BY: SKH

CONSTRUCTION PLAN

SHEET NO. 59
TOTAL SHTS. 850

CP-02

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-6	112+70.76	-48.71	3 1/4" HMA OVER 4 3/4" SC
PC3-7	116+72.01	36.07	3 1/2" HMA OVER 1 1/2" ATB OVER 3 1/2" HMA OVER 4"+ BALLAST
PC3-21	111+00.00	33.73	3 1/2" HMA OVER 1" ST OVER 1" ATB OVER 4 1/2" HMA OVER 4"+ BALLAST



MATCH LINE STA 110+00 SHEET CP-02

MATCH LINE STA 118+00 SHEET CP-04

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
112	112+00.00	0.00	SINGLE TYPE "K" MOD	K	67.69	64.51
115	115+00.00	0.00	SINGLE TYPE "K" MOD	K	70.09	66.65

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
112	24" RCP	IV	87.3	0.007	64.51	63.94
115	24" RCP	IV	86.6	0.006	66.65	66.14

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
2	21.50'	64.54
3	20.50'	66.03
4	22.50'	66.85
5	22.50'	68.01
6	21.50'	68.81
7	24.50'	69.11

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
112	24" RCP	0.007	NO
115	24" RCP	0.006	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
112	CLASS 1	46 SY
115	CLASS 1	42 SY

GUARDRAIL SCHEDULE			
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	LENGTH
133	GALVANIZED SBGR, TYPE 2-31	110+80.00	63.54'
134	END ANCHORAGE 31	111+30.00	63.42'

STOCKPILE AREA

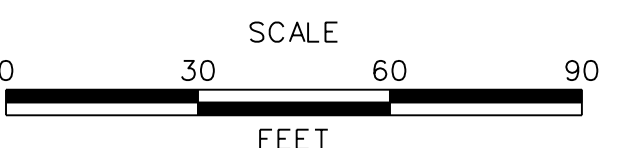
96
JESSE C. DIANGELO, ET UX
TAX MAP 64 / PARCEL 2
LIBER WLB 1187 / FOLIO 178 (PARCEL 1)
LIBER WAS 172 / FOLIO 92
PROJECT PARCEL 96

98
WILD LIFE PRESERVATION TRUST
TAX MAP 59 / PARCEL 117
LIBER NDS 339 / FOLIO 204
PROJECT PARCEL 98

NOT FOR BIDDING

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ADDENDUMS / REVISIONS	

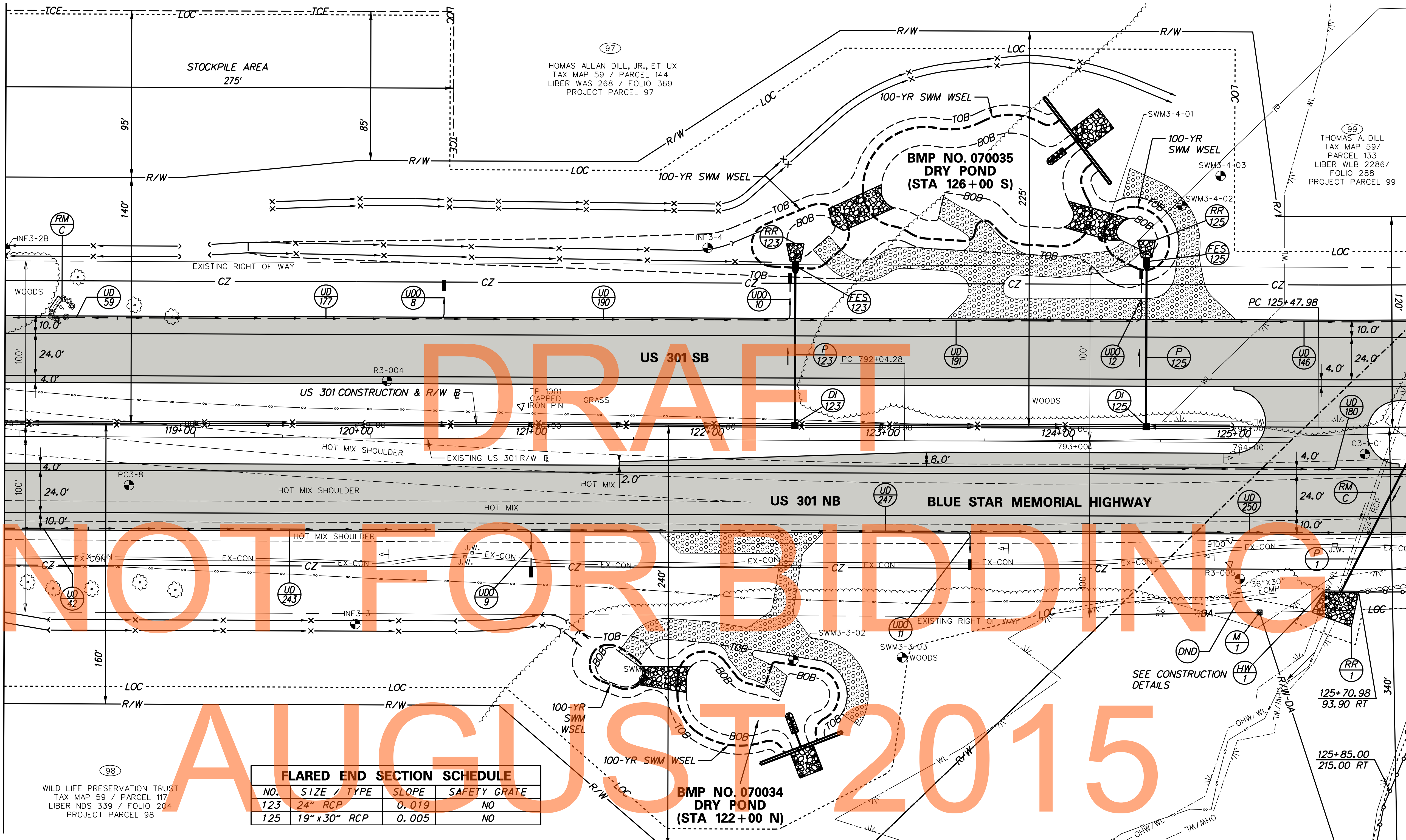


CONTRACT T200811301	BRIDGE NO.
COUNTY CECIL, MD	DESIGNED BY: MFM
	CHECKED BY: SKH

CP-03	SHEET NO. 60
	TOTAL SHTS. 850

MATCH LINE STA 118+00 SHEET CP-03

MATCH LINE STA 126+00 SHEET CP-05



DRAFT
NOT FOR BIDDING
AUGUST 2015

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
123	24" RCP	0.019	NO
125	19" x 30" RCP	0.005	NO

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	STATION	OFFSET	NORTHING	EASTING
1	125+15.00	105.67	514393.0866	556572.7460
2	125+90.00	340.00	514298.5014	556800.5122

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS.	EL.
8	20.25'		69.04
9	23.75'		68.58
10	26.00'		67.46
11	21.75'		67.01
12	28.25'		65.14

RIPRAP SCHEDULE

NO.	SIZE / TYPE	AREA
123	CLASS 1	9 SY
125	CLASS 1	9 SY
1	R-4	38 SY

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
PC3-8	118+70.85	35.27	3 1/2" HMA OVER 1" ATB OVER 4" HMA OVER 4" + BALLAST

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
123	24" RCP	IV	86.1	0.019	66.62	64.95
125	19" x 30" HERCP	IV	88.7	0.005	65.02	64.58
1	48" RCP	IV	205.2	0.003	56.60	56.00

DRAINAGE INLET SCHEDULE

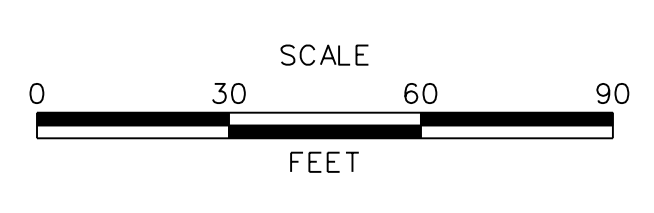
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
123	122+50.00	0.00	SINGLE TYPE "K" MOD	K	69.96	66.62
125	124+50.00	0.00	SINGLE TYPE "K" MOD	K	68.15	65.02

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ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY CECIL, MD	DESIGNED BY: MFM
	CHECKED BY: SKH

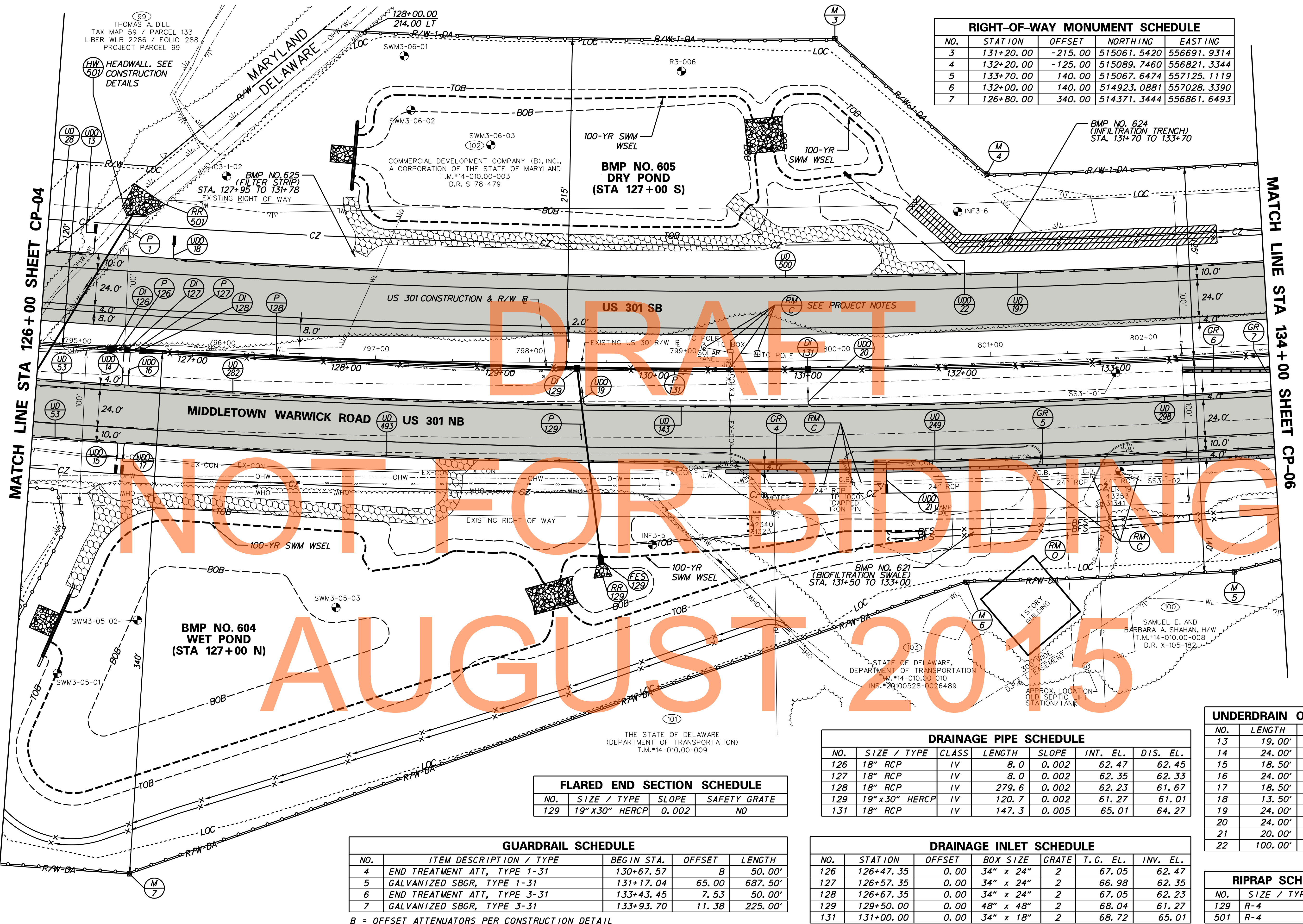
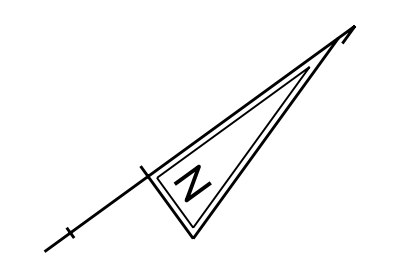
CONSTRUCTION PLAN

CP-04

SHEET NO.	61
TOTAL SHTS.	850

THOMAS A. DILL
TAX MAP 59 / PARCEL 133
LIBER WLB 2286 / FOLIO 288
PROJECT PARCEL 99

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
3	131+20.00	-215.00	515061.5420	556691.9314
4	132+20.00	-125.00	515089.7460	556821.3344
5	133+70.00	140.00	515067.6474	557125.1119
6	132+00.00	140.00	514923.0881	557028.3390
7	126+80.00	340.00	514371.3444	556861.6493



DRAFT
NOT FOR BIDDING
AUGUST 2015

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
129	19" X 30" HERCP	0.002	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
126	18" RCP	IV	8.0	0.002	62.47	62.45
127	18" RCP	IV	8.0	0.002	62.35	62.33
128	18" RCP	IV	279.6	0.002	62.23	61.67
129	19" X 30" HERCP	IV	120.7	0.002	61.27	61.01
131	18" RCP	IV	147.3	0.005	65.01	64.27

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
13	19.00'	64.39
14	24.00'	66.16
15	18.50'	66.69
16	24.00'	66.16
17	18.50'	66.69
18	13.50'	64.50
19	24.00'	67.26
20	24.00'	67.90
21	20.00'	68.62
22	100.00'	64.98

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
4	END TREATMENT ATT, TYPE 1-31	130+67.57	B	50.00'
5	GALVANIZED SBGR, TYPE 1-31	131+17.04	65.00	687.50'
6	END TREATMENT ATT, TYPE 3-31	133+43.45	7.53	50.00'
7	GALVANIZED SBGR, TYPE 3-31	133+93.70	11.38	225.00'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
126	126+47.35	0.00	34" x 24"	2	67.05	62.47
127	126+57.35	0.00	34" x 24"	2	66.98	62.35
128	126+67.35	0.00	34" x 24"	2	67.05	62.23
129	129+50.00	0.00	48" x 48"	2	68.04	61.27
131	131+00.00	0.00	34" x 18"	2	68.72	65.01

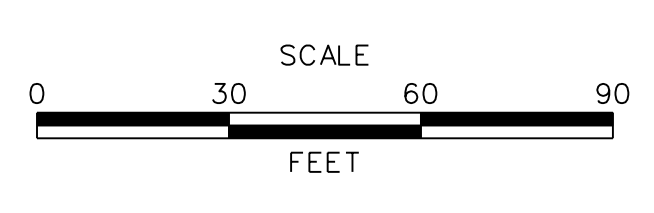
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
129	R-4	8 SY
501	R-4	34 SY

B = OFFSET ATTENUATORS PER CONSTRUCTION DETAIL

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ADDENDUMS / REVISIONS	



US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-05	SHEET NO. 62
	TOTAL SHTS. 850

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
8	GALVANIZED SBGR, TYPE 1-31	136+18.23	13.00	300.00'
9	END ANCHORAGE 31	139+17.66	13.00	12.50'
10	END ANCHORAGE 31	136+19.71	-13.00	12.50'
11	GALVANIZED SBGR, TYPE 1-31	136+32.24	-13.00	300.00'
12	GALVANIZED SBGR, TYPE 3-31	139+32.89	-13.00	225.00'
14	GR TO BAR. CONN., APPROACH TYPE 1-31	137+97.17	65.00	18.75'
15	GR TO BAR. CONN., APPROACH TYPE 1-31	139+23.60	-65.00	18.75'
16	GALVANIZED SBGR, TYPE 1-31	139+42.55	-65.00	862.50'
17	GR TO BAR. CONN., EXIT TYPE 31	139+44.30	65.00	11.50'
18	GALVANIZED SBGR, TYPE 1-31	139+55.65	65.46	587.50'
19	GR TO BAR. CONN., EXIT TYPE 31	1012+30.10	18.00	11.50'
20	GALVANIZED SBGR, TYPE 1-31	1012+41.60	18.00	250.00'
21	GR TO BAR. CONN., APPROACH TYPE 1-31	1012+30.10	-18.00	18.75'
22	GALVANIZED SBGR, TYPE 1-31	1012+48.85	-18.00	75.00'
23	GR TO BAR. CONN., APPROACH TYPE 1-31	1010+19.08	18.00	18.75'
24	GALVANIZED SBGR, TYPE 1-31	1006+82.08	18.00	337.50'
25	GR TO BAR. CONN., EXIT TYPE 31	1010+26.33	18.00	11.50'
26	GALVANIZED SBGR, TYPE 1-31	1008+07.08	-18.00	225.00'
119	CURVED GUARDRAIL SECTION	1013+27.11	-18.00	125.00'

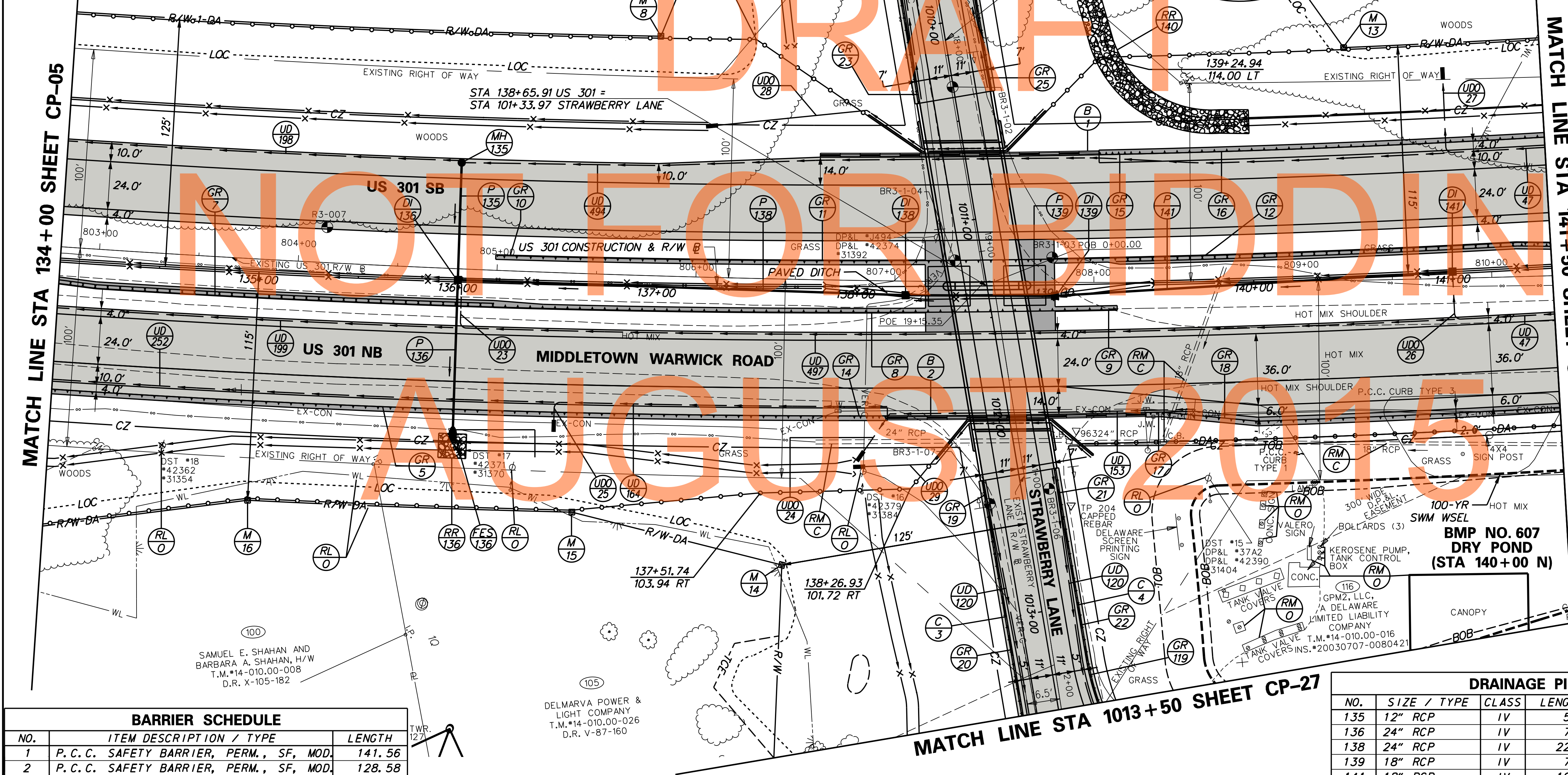
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
136	136+00.00	0.00	48" x 48"	2	70.98	67.42
138	138+25.00	4.38	48" x 30"	2	72.00	68.64
139	139+00.00	5.50	34" x 18"	2	72.33	69.39
141	141+00.00	0.00	34" x 18"	2	73.23	70.16

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. CURB, TYPE 1-4	238.00'
2	P.C.C. CURB, TYPE 1-4	238.00'
3	P.C.C. CURB, TYPE 1-4	119.90'
4	P.C.C. CURB, TYPE 1-4	119.90'

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
8	137+00.00	-125.0000	515487.6627	557071.2234
11	1009+50.00	120.0000	515518.0298	557046.9197
12	1009+50.00	-150.0000	515772.8701	557136.1183
13	140+50.00	-115.0000	515785.5491	557241.9159
14	1012+55.00	125.0000	515412.2860	557333.1431
15	136+60.00	115.0000	515332.9604	557259.0103
16	135+00.00	115.0000	515193.1637	557175.0696

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
23	24.00'	70.17
24	27.75'	69.56
25	14.75'	71.00
26	24.00'	72.41
27	42.75'	70.04
28	78.75'	69.55
29	39.75'	70.00

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
135	136+00.00	-59.00	48" x 30"	71.57	67.55



RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
136	R-4	19 SY
140	R-4	152 SY

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
136	24" RCP	0.002	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
135	12" RCP	IV	56.3	0.002	67.55	67.43
136	24" RCP	IV	73.6	0.002	67.42	67.26
138	24" RCP	IV	222.7	0.003	68.64	67.97
139	18" RCP	IV	73.6	0.003	69.39	69.14
141	18" RCP	IV	198.7	0.003	70.16	69.59

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P.C.C. SAFETY BARRIER, PERM., SF, MOD.	141.56
2	P.C.C. SAFETY BARRIER, PERM., SF, MOD.	128.58



ADDENDUMS / REVISIONS



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.	CONSTRUCTION PLAN
COUNTY NEW CASTLE	DESIGNED BY: MFM	
	CHECKED BY: SKH	

SHEET NO. 63
TOTAL SHTS. 850

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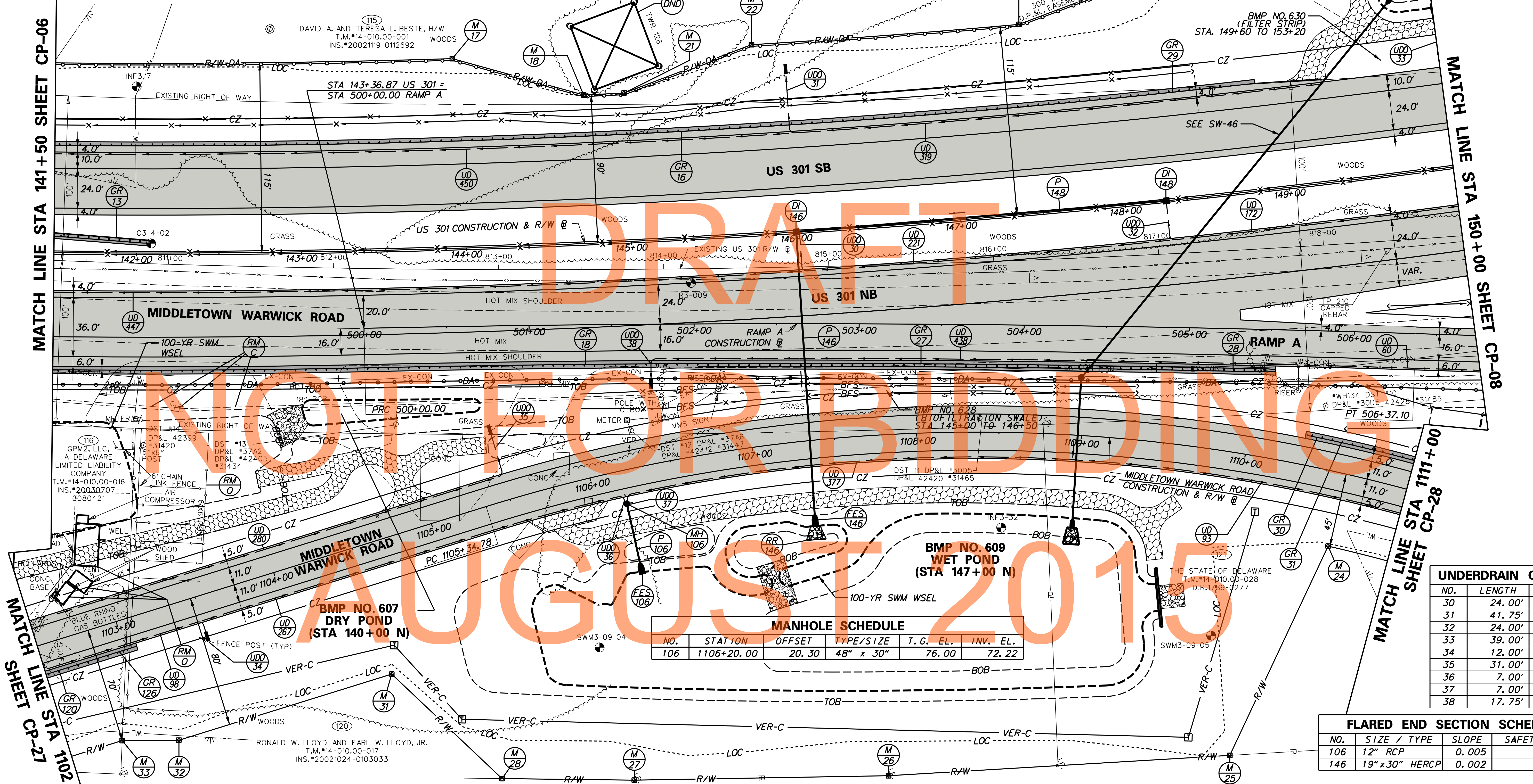
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
17	143+95.00	-115.0000	516092.3072	557384.0868
18	144+75.00	-90.0000	516155.0913	557437.6240
21	145+00.00	-90.0000	516177.8719	557446.9747
22	145+80.00	-115.0000	516260.1636	557452.9867
23	147+45.64	-115.0000	516412.1916	557510.2590
24	1110+61.00	45.0000	516448.1521	557875.8412
25	1110+25.00	181.40	516340.8492	557965.8588

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
26	1107+69.26	206.4782	516148.2754	557889.7142
27	1105+79.48	184.2077	516007.4983	557827.0847
28	1104+95.00	160.3363	515935.2649	557792.3902
31	1104+50.00	80.0000	515901.4539	557706.7413
32	1103+15.00	80.0000	515767.6752	557688.6231
33	1102+82.12	70.0000	515736.4301	557674.3001

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
106	12" RCP	IV	37.0	0.005	72.22	72.03
146	19" x 30" HERCP	IV	171.7	0.002	72.70	72.31
148	18" RCP	IV	223.0	0.004	73.67	72.78

MATCH LINE STA 141+50 SHEET CP-06

MATCH LINE STA 150+00 SHEET CP-08



MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
106	1106+20.00	20.30	48" x 30"	76.00	72.22

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
30	24.00'	74.68
31	41.75'	72.32
32	24.00'	75.68
33	39.00'	74.32
34	12.00'	78.51
35	31.00'	75.38
36	7.00'	74.65
37	7.00'	74.65
38	17.75'	75.11

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
106	12" RCP	0.005	NO
146	19" x 30" HERCP	0.002	NO

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
146	146+00.00	0.00	48" x 30"	2	75.49	72.70
148	148+25.00	0.00	34" x 18"	2	76.50	73.67

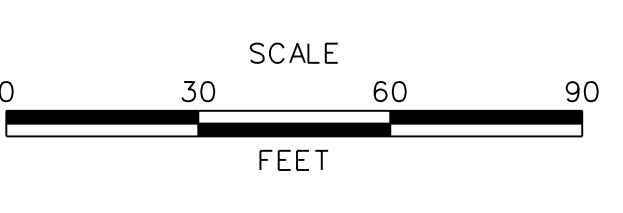
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
13	END TREATMENT ATT, TYPE 3-31	141+58.31	-11.29	50.00'
27	GALVANIZED SBGR, TYPE 3-31	502+01.85	24.00'	300.00'
28	END TREATMENT ATT, TYPE 3-31	505+02.45	24.00'	50.00'

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
29	END TREATMENT ATT, TYPE 1-31	148+14.50	B	50.00'
30	END ANCHORAGE 31	1110+34.30	-18.00'	12.50'
31	GALVANIZED SBGR, TYPE 1-31	1110+46.80	-18.00'	587.50
126	END ANCHORAGE 31	1103+07.50	18.00'	12.50'

RIPRAP SCHEDULE			
NO.	SIZE / TYPE	AREA	
146	R-4	8 SY	



ADDENDUMS / REVISIONS



US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T20081301
 COUNTY NEW CASTLE
 BRIDGE NO.
 DESIGNED BY: MFM
 CHECKED BY: SKH

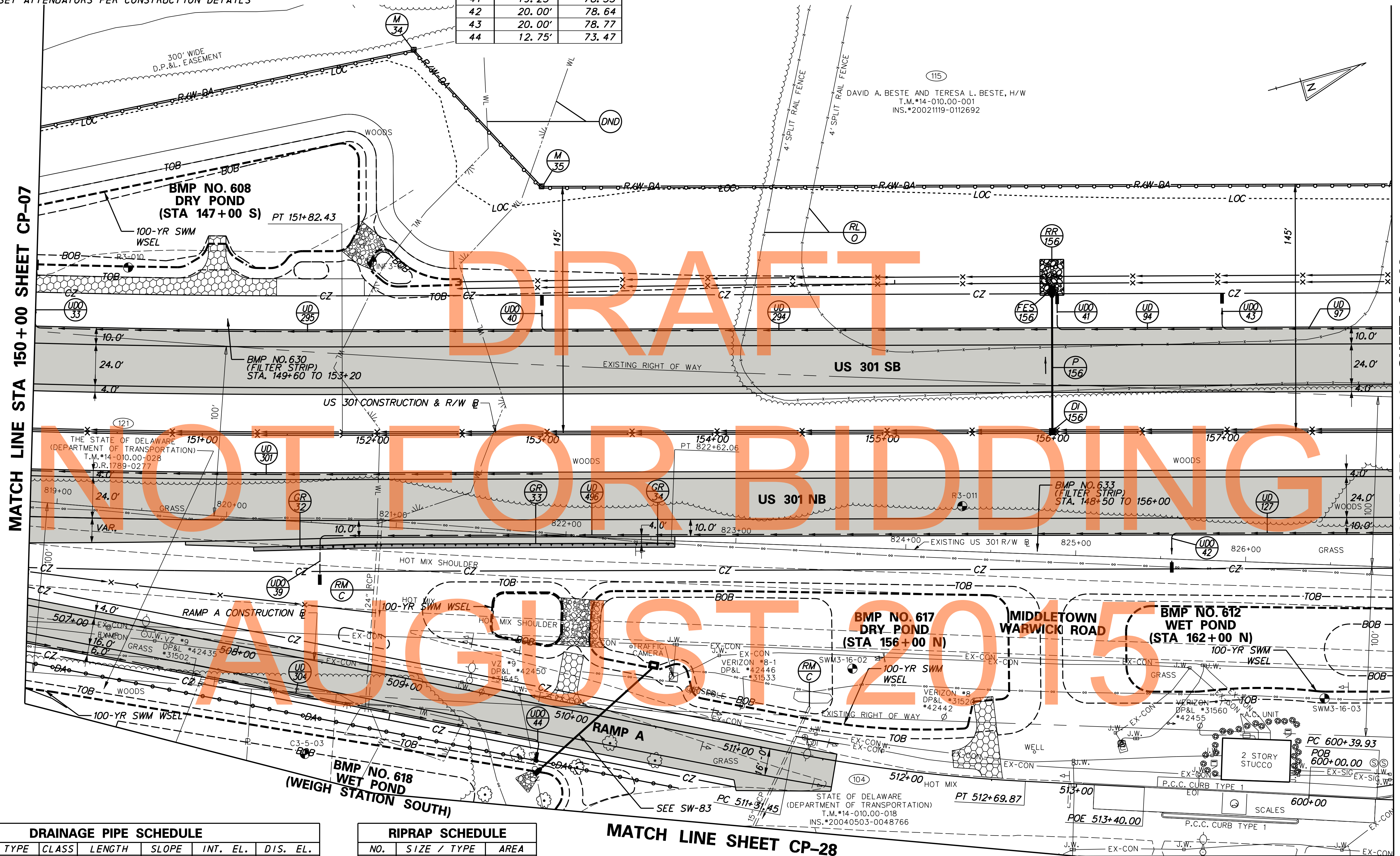
CONSTRUCTION PLAN
 SHEET NO. 64
 TOTAL SHTS. 850

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GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
32	END TREATMENT ATT, TYPE 1-31	151+52.11	B	50.00'
33	GALVANIZED SBGR, TYPE 1-31	152+01.76	65.00'	162.50'
34	END ANCHORAGE 31	153+64.25	65.00'	12.50'

B = OFFSET ATTENUATORS PER CONSTRUCTION DETAILS

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
33	39.00'	74.32
39	25.75'	77.31
40	18.50'	76.71
41	19.25'	78.33
42	20.00'	78.64
43	20.00'	78.77
44	12.75'	73.47



MATCH LINE STA 150+00 SHEET CP-07

MATCH LINE STA 158+00 SHEET CP-09

DRAFT

NOT FOR BIDDING

AUGUST 2015

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
156	14" x 23" HERCP	IV	79.2	0.005	77.59	77.19

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
156	R-4	33 SY

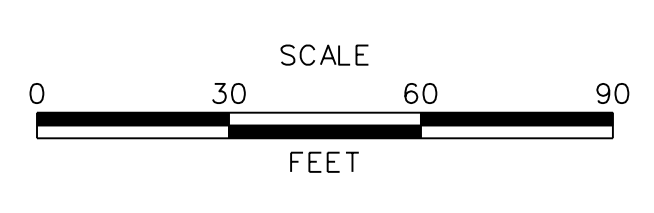
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
156	156+00.00	0.00	34" x 18"	2	80.62	77.59

FLARED END SECTION SCHEDULE				
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE	
156	14" x 23" HERCP	0.005	NO	

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
34	152+25.00	-225.5334	516890.9505	557546.0405
35	153+00.00	-145.0000	516941.3931	557643.8473



ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

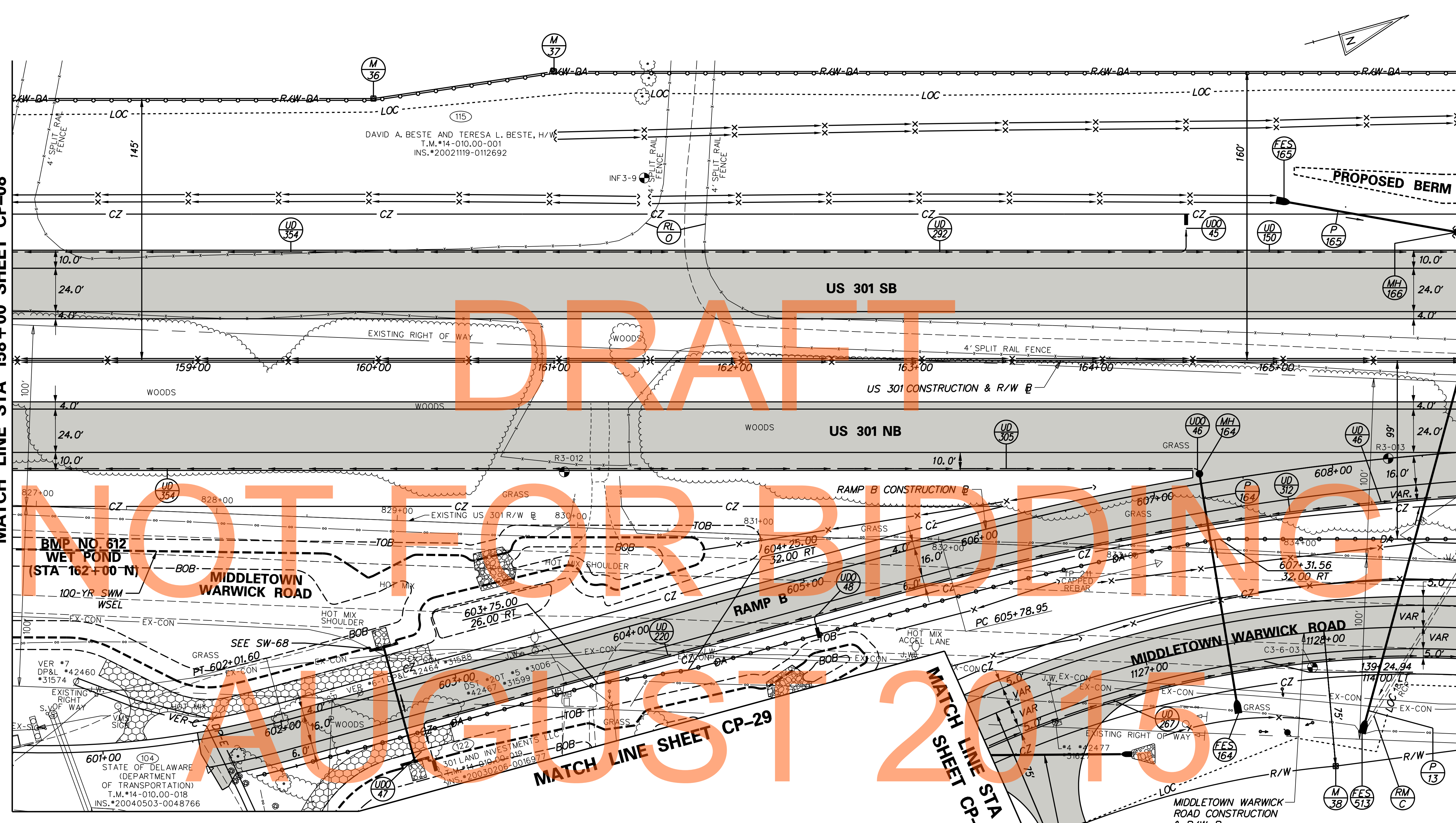
CONSTRUCTION PLAN	
SHEET NO.	65
TOTAL SHTS.	850

CP-08

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MATCH LINE STA 158+00 SHEET CP-08

MATCH LINE STA 166+00 SHEET CP-10



BMP NO. 512
WET POND
(STA 162+00 N)

MIDDLETOWN
WARWICK ROAD

MATCH LINE SHEET CP-29

MATCH LINE STA 1126+00
SHEET CP-29

UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
45	19.25'	79.40
46	7.00'	79.63
47	27.75'	73.78
48	12.75'	77.37

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
13	24" x 38" HERCP	IV	287.7	0.002	70.79	70.31
164	12" RCP	IV	127.4	0.030	77.05	73.18
165	24" RCP	IV	94.3	0.007	77.63	76.96

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
513	24" x 38" HERCP	0.002	YES
164	12" RCP	0.030	NO
165	24" RCP	0.007	YES

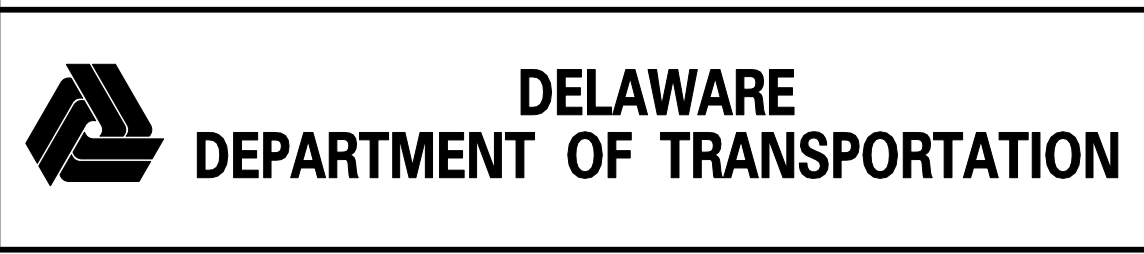
MANHOLE SCHEDULE

NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
164	164+57.38	62.90	48" x 30"	82.40	77.05
166	166+00.00	-71.00	48" x 30"	80.71	76.76

RIGHT-OF-WAY MONUMENT SCHEDULE

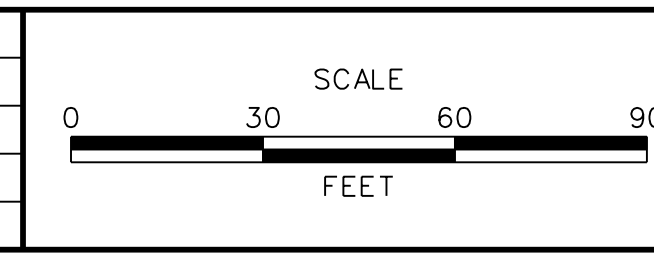
NO.	STATION	OFFSET	NORTHING	EASTING
36	160+00.00	-145.0000	517615.3416	557833.0389
37	161+00.00	-160.0000	517715.6741	557845.6245
38	1128+00.00	75.0000	518028.4321	558333.0445

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ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

SHEET NO.	66
TOTAL SHTS.	850

CP-09

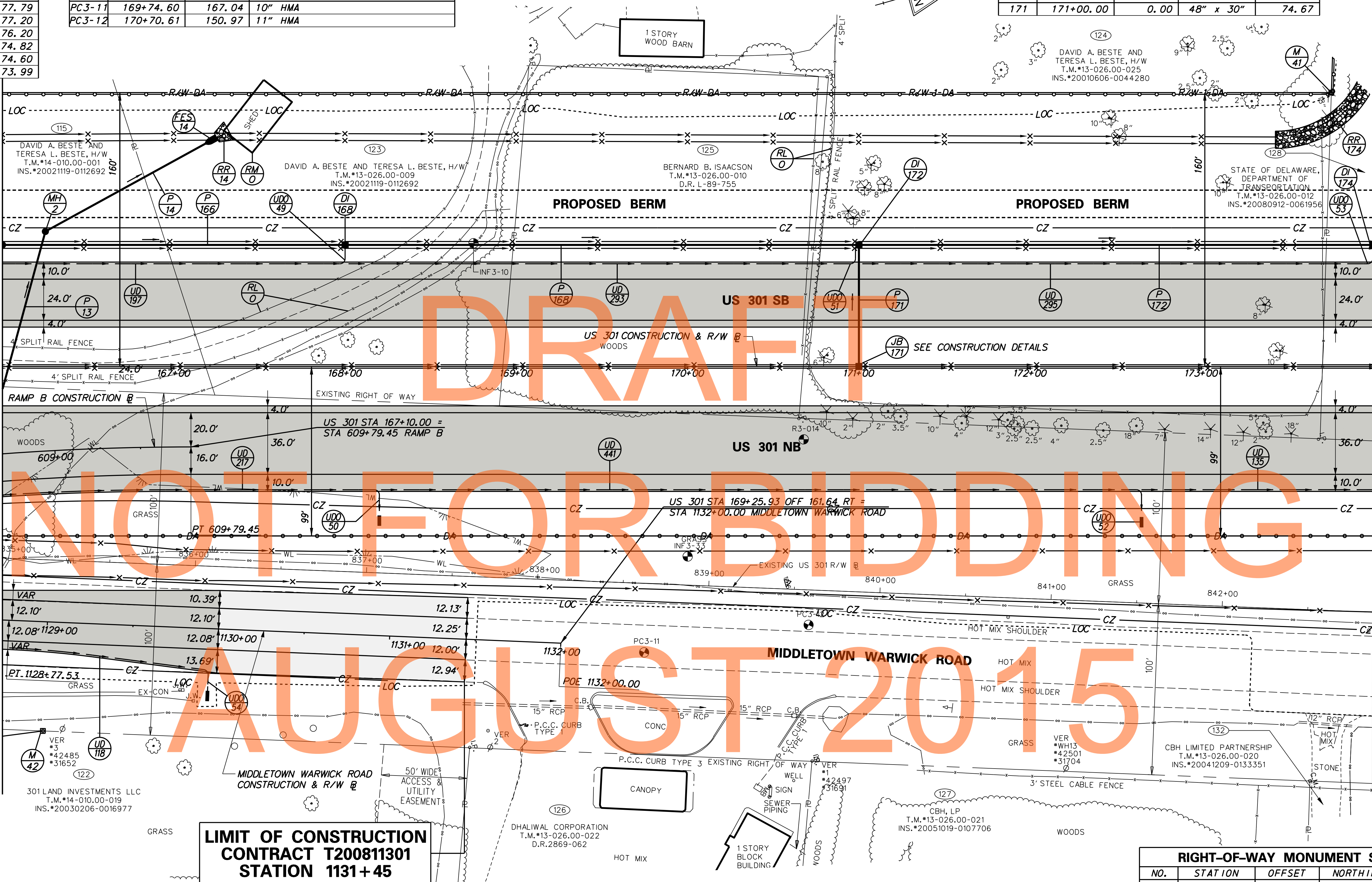
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
49	11.00'	77.79
50	18.50'	77.20
51	11.00'	76.20
52	19.50'	74.82
53	11.00'	74.60
54	16.25'	73.99

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-11	169+74.60	167.04	10" HMA
PC3-12	170+70.61	150.97	11" HMA

JUNCTION BOX SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	INV. EL.
171	171+00.00	0.00	48" x 30"	74.67

MATCH LINE STA 166+00 SHEET CP-09

MATCH LINE STA 174+00 SHEET CP-11



DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
168	168+00.00	-71.00	48" x 30"	2	79.65	75.16
172	171+00.00	-71.00	48" x 30"	2	78.05	73.47
174	174+00.00	-71.00	48" x 30"	2	76.46	71.78

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
166	24" RCP	IV	197.5	0.007	76.76	75.36
168	24" RCP	IV	297.5	0.005	75.16	73.67
171	18" RCP	IV	68.3	0.010	74.67	73.99
172	24" RCP	IV	297.5	0.005	73.47	71.98
14	24" x 38" HERCP	IV	106.1	0.002	70.21	70.05

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
2	166+25.00	-78.86	66" x 48"	82.00	70.21

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
14	24" x 38" HERCP	0.002	NO

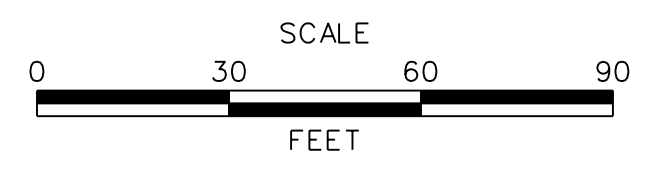
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
41	173+75.84	-160.0000	518944.0332	558190.4509
42	1129+00.00	63.7871	518118.9452	558346.1618

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
14	R-4	8 SY
174	R-4	103 SY

CP-10	
SHEET NO.	TOTAL SHTS.
67	850



ADDENDUMS / REVISIONS



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

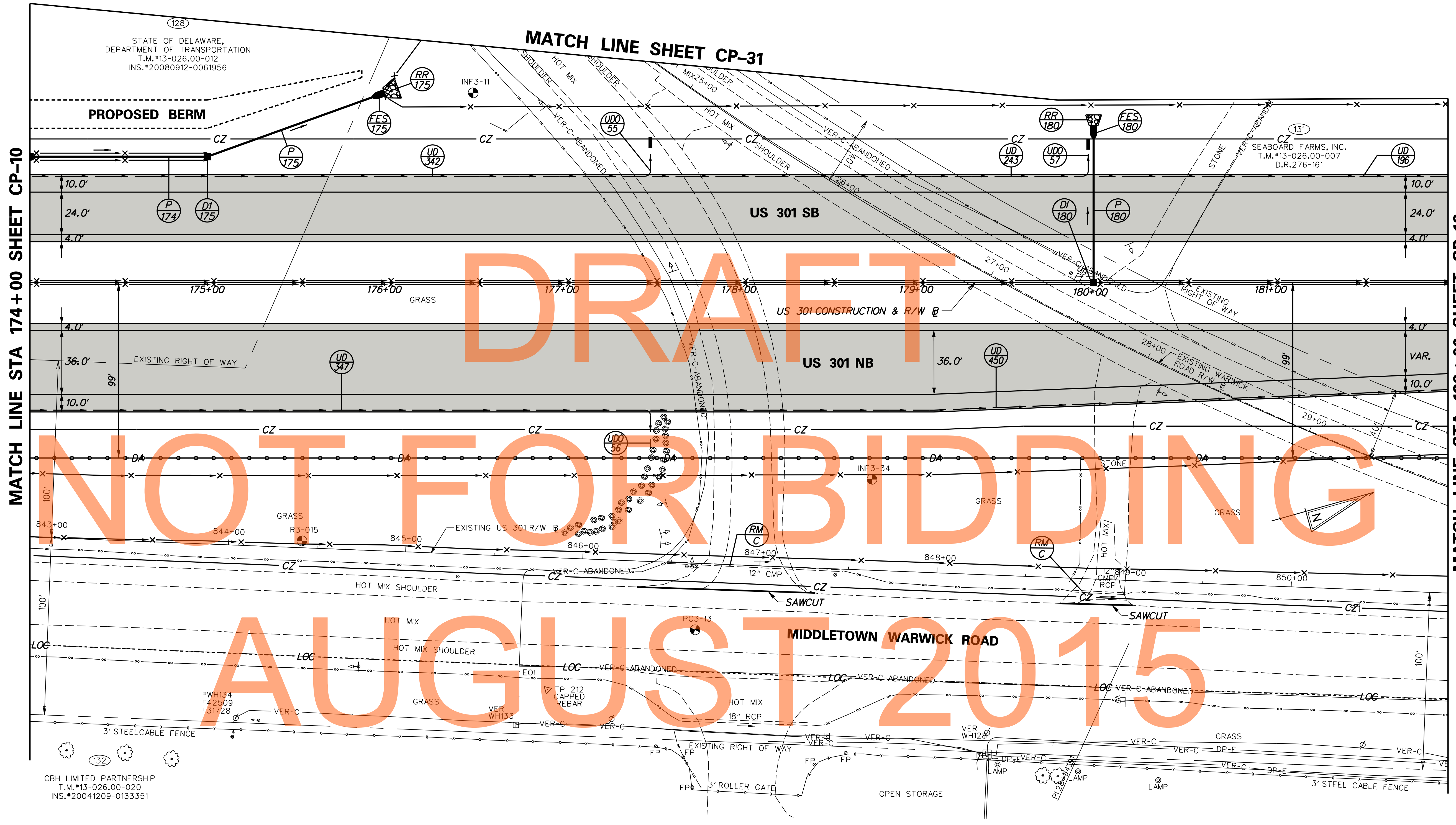
CONTRACT T200811301	BRIDGE NO.	DESIGNED BY: MFM CHECKED BY: SKH
COUNTY NEW CASTLE		

CONSTRUCTION PLAN

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ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-13	177+75.16	195.91	7" HMA OVER 9 1/2" PCC

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
55	19.50'	72.48
56	19.50'	72.42
57	18.50'	71.19



DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
174	24" RCP	IV	97.5	0.005	71.78	71.29
175	24" RCP	IV	99.0	0.005	71.09	70.59
180	18" RCP	IV	81.8	0.016	70.77	69.46

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
175	24" RCP	0.005	NO
180	18" RCP	0.016	NO

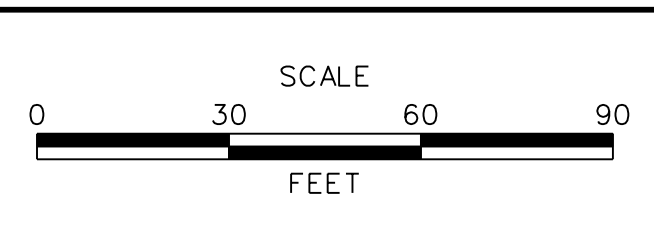
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
180	180+00.00	0.00	34" x 18"	2	73.48	70.77
175	175+00.00	-71.00	48" x 30"	2	75.93	71.09

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
175	R-5	8 SY
180	R-4	5 SY

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ADDENDUMS / REVISIONS	



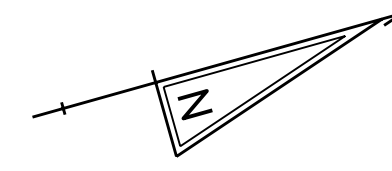
**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-11	
SHEET NO.	68
TOTAL SHTS.	850

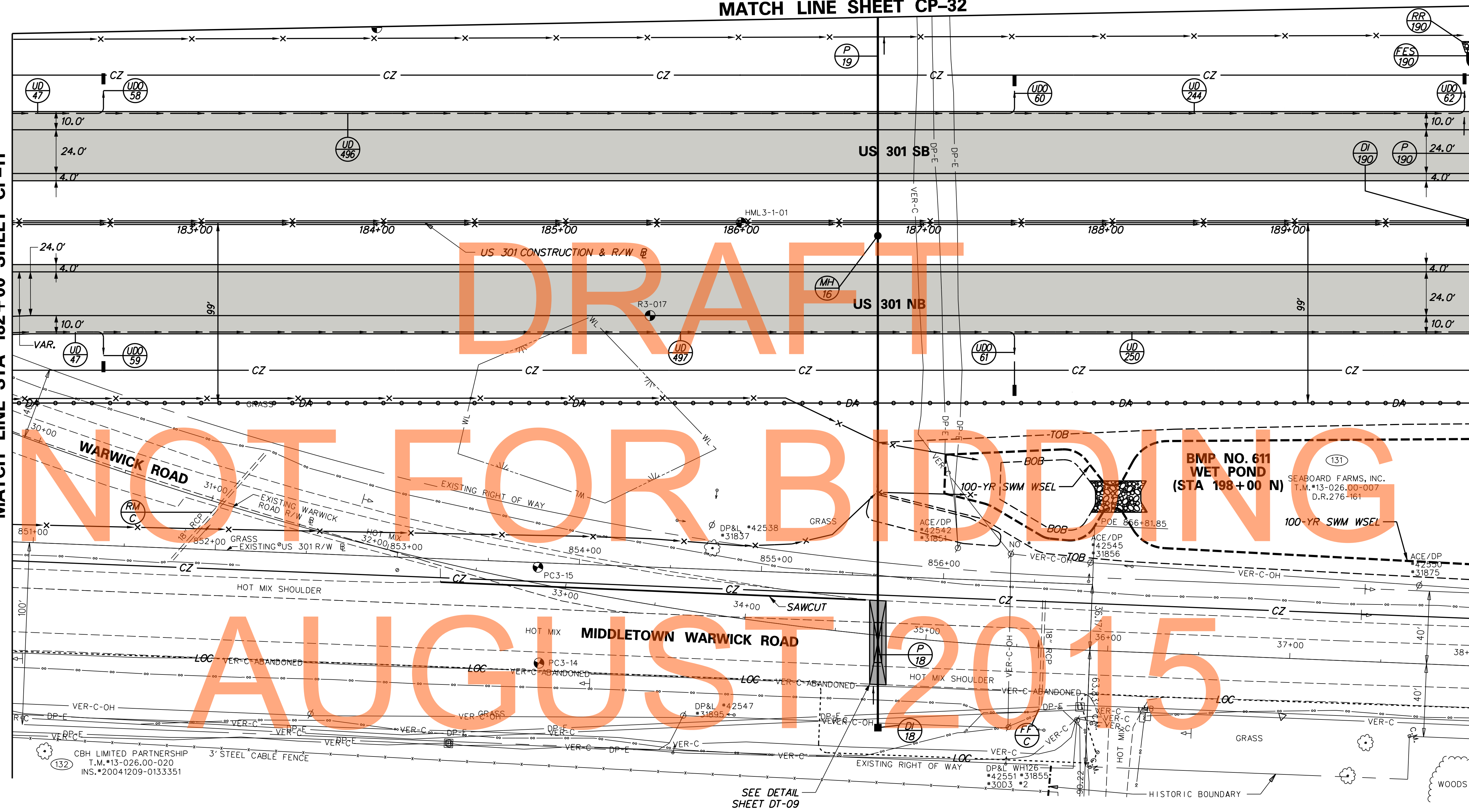
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
58	19.50'	69.82
59	19.50'	69.83
60	18.50'	67.19
61	30.25'	66.91
62	19.50'	65.86



MATCH LINE SHEET CP-32

MATCH LINE STA 182+00 SHEET CP-11

MATCH LINE STA 190+00 SHEET CP-13



NOT FOR BIDDING

AUGUST 2015

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
190	190+00.00	0.00	34" x 18"	2	68.17	65.46
18	186+75.00	277.20	48" x 30"	2	66.00	61.25

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
190	R-4	5 SY

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
190	18" RCP	IV	86.7	0.028	65.46	63.04	
18	30" RCP	IV	267.5	0.003	60.50	59.92	
19	30" RCP	IV	191.7	0.005	59.72	58.76	

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
190	18" RCP	0.028	NO

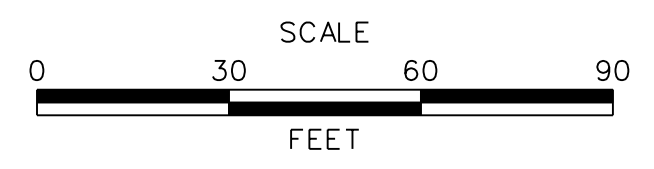
MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T. G. EL.	INV. EL.
16	186+75.00	7.20	48" x 30"	70.40	59.72

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-14	184+89.04	241.74	11 1/2" HMA
PC3-15	184+88.46	189.12	5 1/2" HMA

CP-12	
SHEET NO.	TOTAL SHTS.
69	850



ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

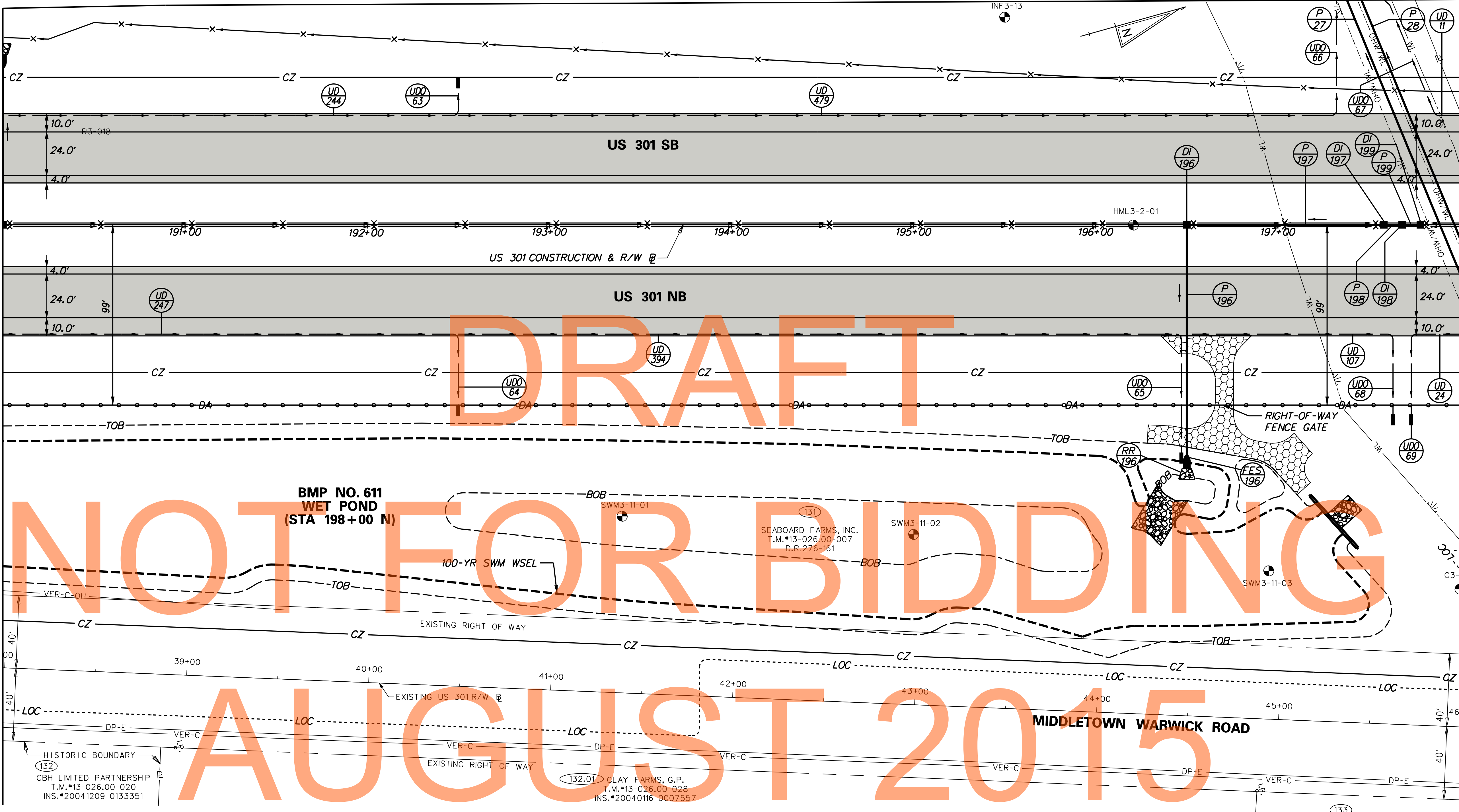
CONSTRUCTION PLAN

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MATCH LINE SHEET CP-33

MATCH LINE STA 190+00 SHEET CP-12

MATCH LINE STA 198+00 SHEET CP-14



DRAFT
NOT FOR BIDDING
AUGUST 2015

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
196	196+50.00	0.00	48" x 48"	2	64.73	61.56
197	197+58.17	0.00	34" x 18"	2	64.55	62.09
198	197+68.17	0.00	34" x 18"	2	64.48	62.12
199	197+78.17	0.00	34" x 18"	2	64.55	62.14

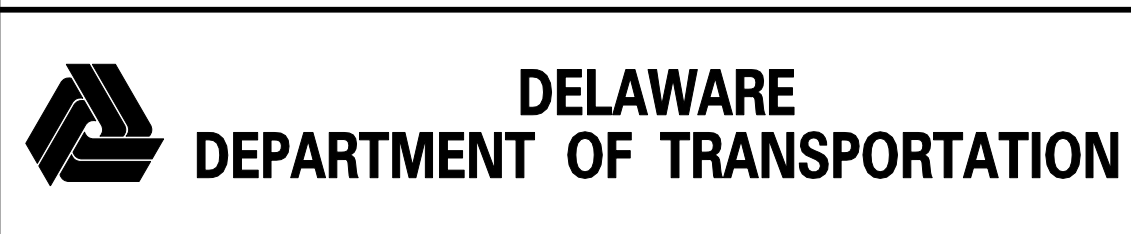
DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
196	14" x 23" HERCP	IV	125.6	0.003	61.56	61.18	
197	14" x 23" HERCP	IV	105.4	0.003	62.09	61.76	
198	14" x 23" HERCP	IV	8.5	0.003	62.12	62.09	
199	14" x 23" HERCP	IV	8.5	0.003	62.14	62.12	
27	42" RCP	IV	276.9	0.005	55.10	53.66	
28	42" RCP	IV	280.1	0.005	55.10	53.66	

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
196	14" x 23" HERCP	0.003	NO

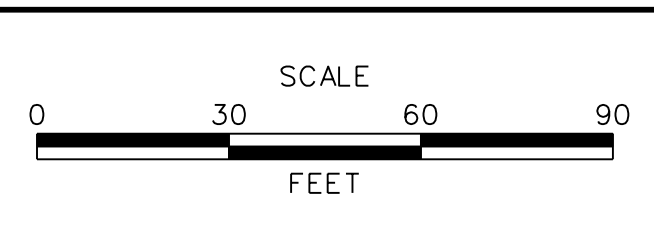
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
196	R-4	5 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
63	19.25'	64.54
64	39.50'	64.06
65	70.00'	61.45
66	79.00'	61.09
67	97.00'	60.71
68	49.75'	61.60
69	49.75'	61.60

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-13
SHEET NO. 70
TOTAL SHTS. 850

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
35	END TREATMENT ATT, TYPE 3-31	202+59.20	3.42	50.00'
36	GALVANIZED SBGR, TYPE 3-31	203+09.49	7.70'	200.00'
37	GALVANIZED SBGR, TYPE 1-31	205+09.05	21.00'	87.50'
38	END ANCHORAGE 31	205+96.55	21.00'	12.50'
39	END TREATMENT ATT, TYPE 2-31	203+21.33	81.49'	50.00'
40	GALVANIZED SBGR, TYPE 1-31	203+71.88	74.98'	225.00'
41	END ANCHORAGE 31	205+96.55	65.00'	12.50'

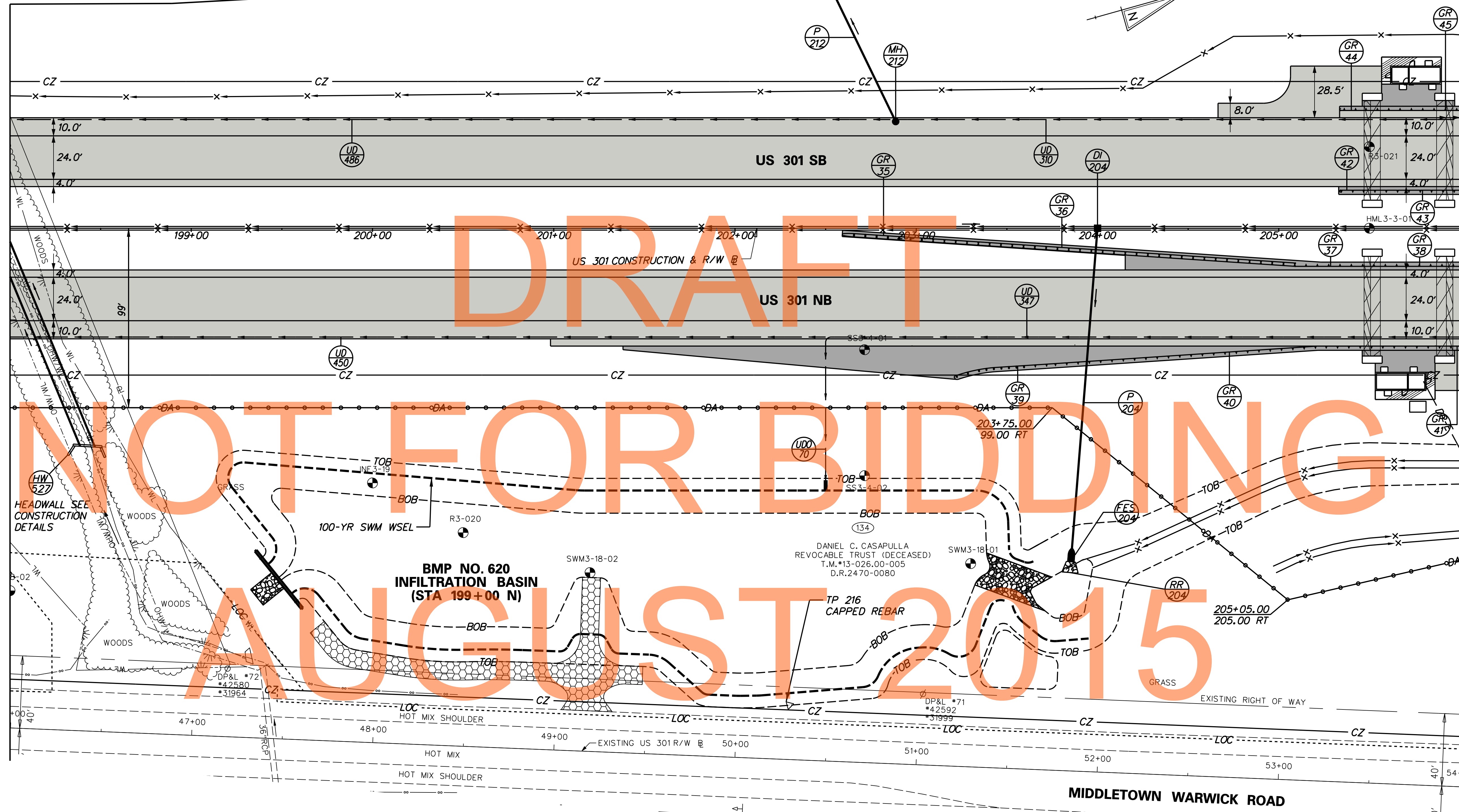
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
42	END ANCHORAGE 31	205+34.08	-21.00'	12.50'
43	GALVANIZED SBGR, TYPE 1-31	205+46.58	-21.00'	87.50'
44	END ANCHORAGE 31	205+34.08	-65.00'	12.50'
45	GALVANIZED SBGR, TYPE 1-31	205+46.58	-65.00'	175.00'

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
70	84.00'	63.11

MATCH LINE SHEET CP-34

MATCH LINE STA 198+00 SHEET CP-13

MATCH LINE STA 206+00 SHEET CP-15



DRAFT
NOT FOR BIDDING
AUGUST 2015

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
204	18" RCP	IV	177.9	0.020	64.80	61.34
212	12" RCP	IV	114.0	0.005	63.43	62.86

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
204	R-4	5 SY

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
204	204+00.00	0.00	34" x 18"	2	67.51	64.80

MANHOLE SCHEDULE						
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.	
212	202+88.69	-60.00	48" x 30"	67.82	63.43	

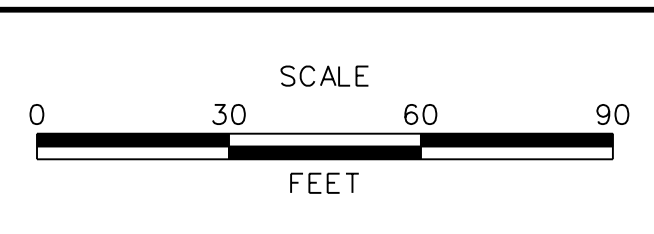
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
204	18" RCP	0.020	NO

CP-14

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

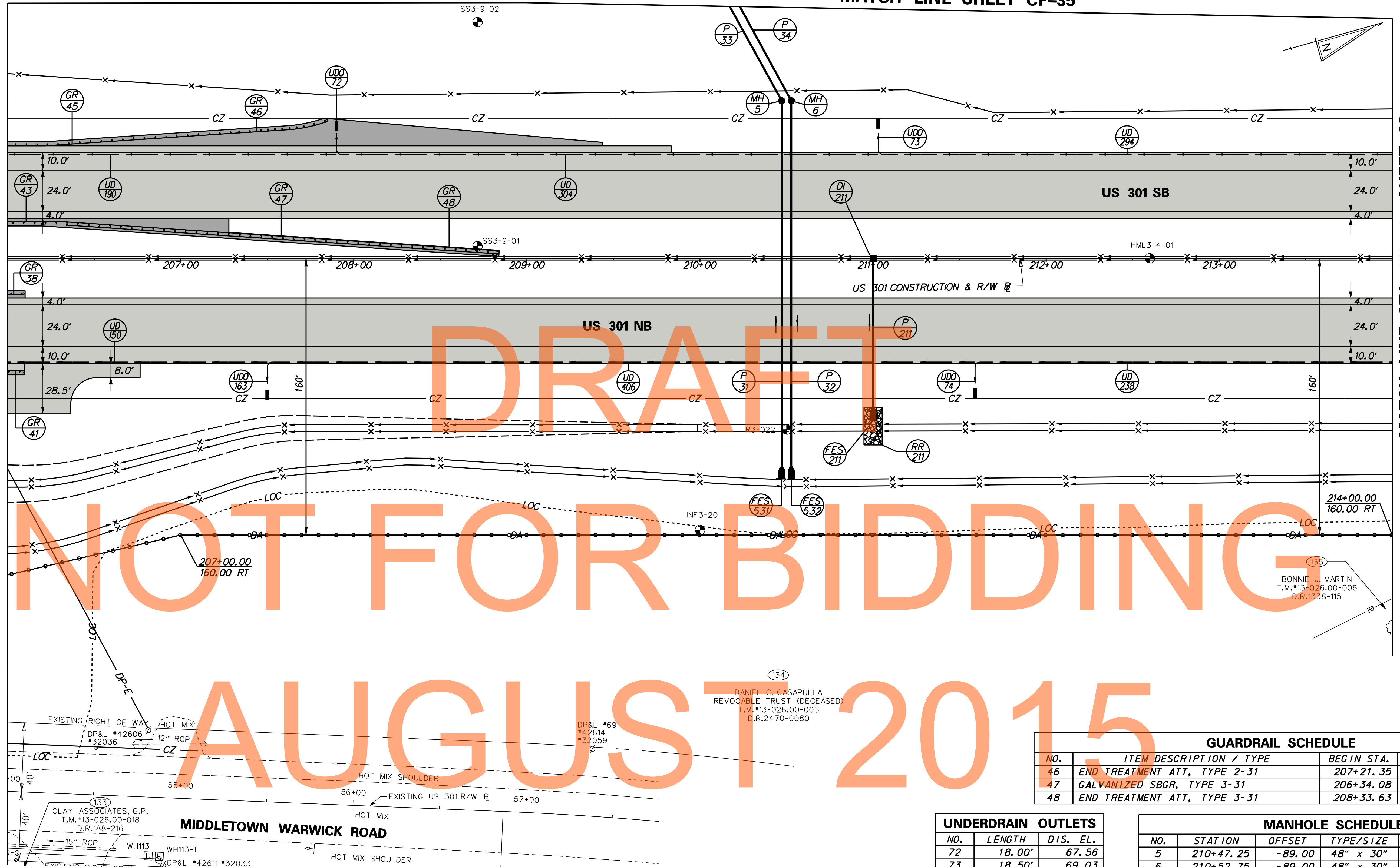
CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

SHEET NO. 71
TOTAL SHTS. 850

MATCH LINE STA 206+00 SHEET CP-14

MATCH LINE STA 214+00 SHEET CP-16



NOT FOR BIDDING

AUGUST 2015

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
46	END TREATMENT ATT, TYPE 2-31	207+21.35	-71.65	50.00'
47	GALVANIZED SBGR, TYPE 3-31	206+34.08	-21.00	200.00'
48	END TREATMENT ATT, TYPE 3-31	208+33.63	-7.70	50.00'

UNDERDRAIN OUTLETS			
NO.	LENGTH	DIS. EL.	
72	18.00'	67.56	
73	18.50'	69.03	
74	20.00'	69.34	
163	18.50'	67.11	

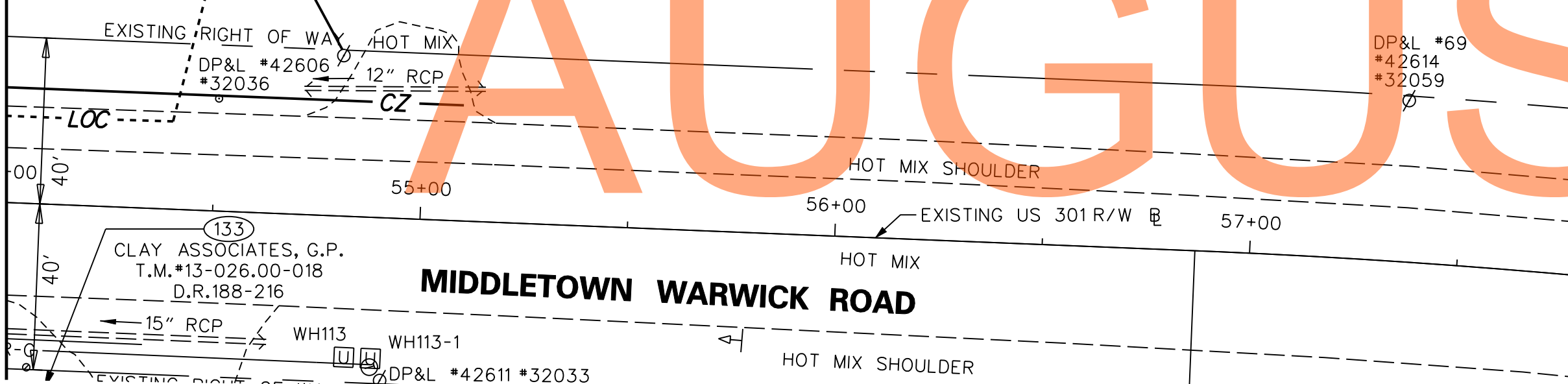
MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
5	210+47.25	-89.00	48" x 30"	69.50	60.95
6	210+52.75	-89.00	48" x 30"	69.50	60.95

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
211	18" RCP	IV	86.9	0.029	68.60	65.89
31	24" RCP	IV	211.7	0.003	61.79	61.15
32	24" RCP	IV	211.7	0.003	61.79	61.15
33	19" x 30" HERCP	IV	192.6	0.006	60.95	59.79
34	19" x 30" HERCP	IV	192.2	0.006	60.95	59.79

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
211	18" RCP	0.029	NO
531	24" RCP	0.003	YES
532	24" RCP	0.003	YES

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
211	R-4	25 SY

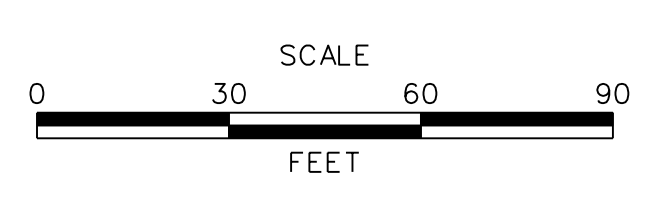
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
211	211+00.00	0.00	34" x 24"	2	71.31	68.60



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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

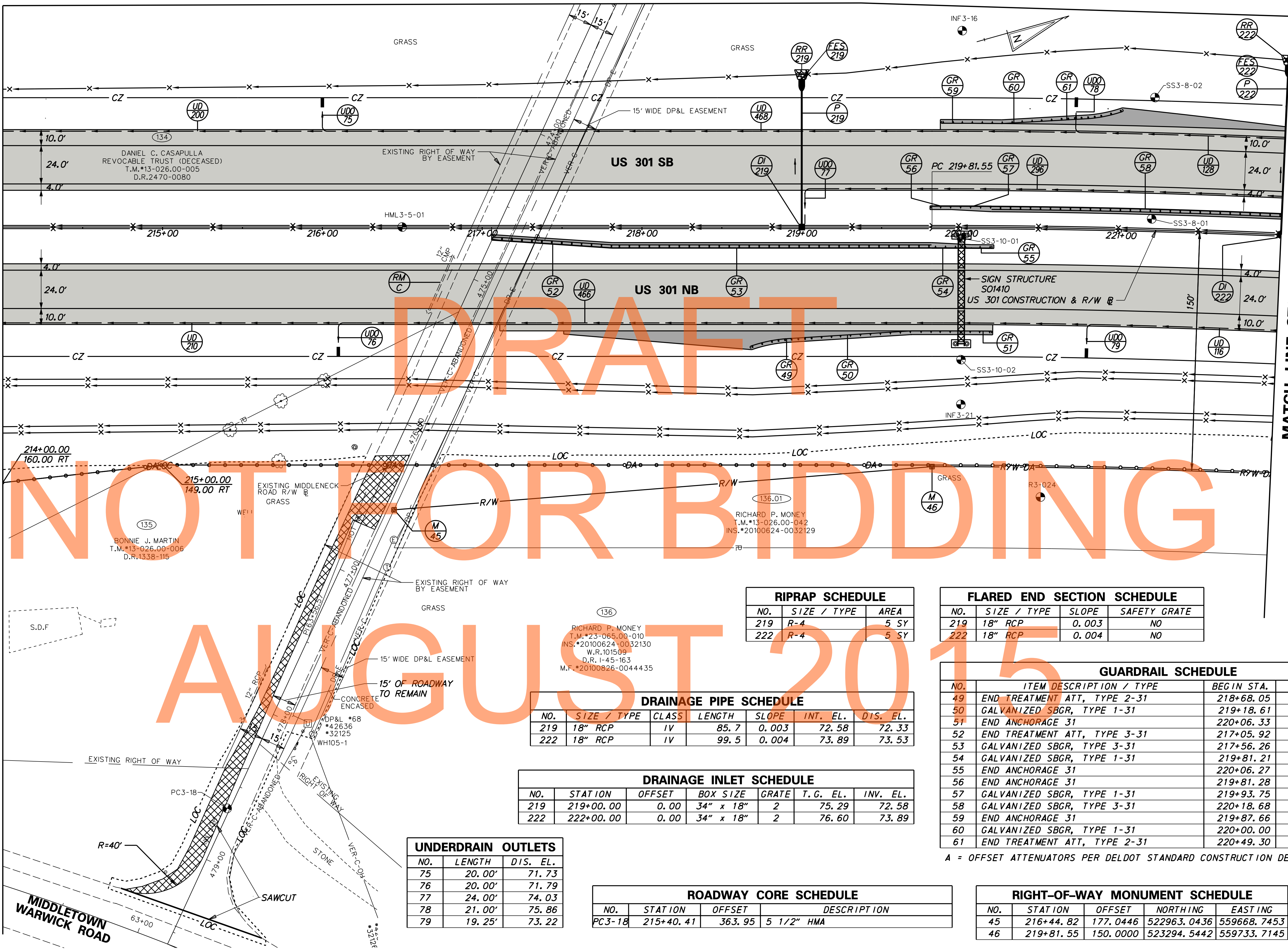
SHEET NO. 72
TOTAL SHTS. 850

CP-15

MATCH LINE SHEET CP-36

MATCH LINE STA 214+00 SHEET CP-15

MATCH LINE STA 222+00 SHEET CP-17



UNDERDRAIN OUTLETS

NO.	LENGTH	DIS. EL.
75	20.00'	71.73
76	20.00'	71.79
77	24.00'	74.03
78	21.00'	75.86
79	19.25'	73.22

DRAINAGE PIPE SCHEDULE

NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
219	18" RCP	IV	85.7	0.003	72.58	72.33
222	18" RCP	IV	99.5	0.004	73.89	73.53

DRAINAGE INLET SCHEDULE

NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
219	219+00.00	0.00	34" x 18"	2	75.29	72.58
222	222+00.00	0.00	34" x 18"	2	76.60	73.89

RIPRAP SCHEDULE

NO.	SIZE / TYPE	AREA
219	R-4	5 SY
222	R-4	5 SY

FLARED END SECTION SCHEDULE

NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
219	18" RCP	0.003	NO
222	18" RCP	0.004	NO

GUARDRAIL SCHEDULE

NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
49	END TREATMENT ATT, TYPE 2-31	218+68.05	A	50.00'
50	GALVANIZED SBGR, TYPE 1-31	219+18.61	68.14	87.50'
51	END ANCHORAGE 31	220+06.33	65.00	12.50'
52	END TREATMENT ATT, TYPE 3-31	217+05.92	7.07	50.00'
53	GALVANIZED SBGR, TYPE 3-31	217+56.26	11.33	225.00'
54	GALVANIZED SBGR, TYPE 1-31	219+81.21	13.00	25.00'
55	END ANCHORAGE 31	220+06.27	13.00	12.50'
56	END ANCHORAGE 31	219+81.28	-13.00	12.50'
57	GALVANIZED SBGR, TYPE 1-31	219+93.75	-13.00	25.00'
58	GALVANIZED SBGR, TYPE 3-31	220+18.68	-13.00	225.00'
59	END ANCHORAGE 31	219+87.66	-65.00	12.50'
60	GALVANIZED SBGR, TYPE 1-31	220+00.00	-65.00	50.00'
61	END TREATMENT ATT, TYPE 2-31	220+49.30	-66.69	50.00'

A = OFFSET ATTENUATORS PER DELDOT STANDARD CONSTRUCTION DETAILS

ROADWAY CORE SCHEDULE

NO.	STATION	OFFSET	DESCRIPTION
PC3-18	215+40.41	363.95	5 1/2" HMA

RIGHT-OF-WAY MONUMENT SCHEDULE

NO.	STATION	OFFSET	NORTHING	EASTING
45	216+44.82	177.0446	522963.0436	559668.7453
46	219+81.55	150.0000	523294.5442	559733.7145

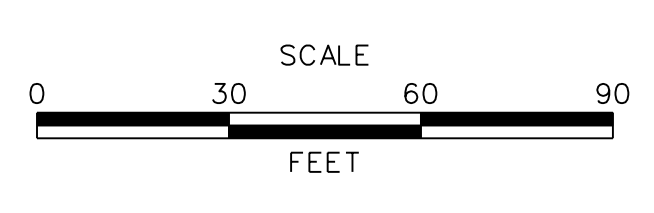
CP-16

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ADDENDUMS / REVISIONS

NO.	DATE	DESCRIPTION



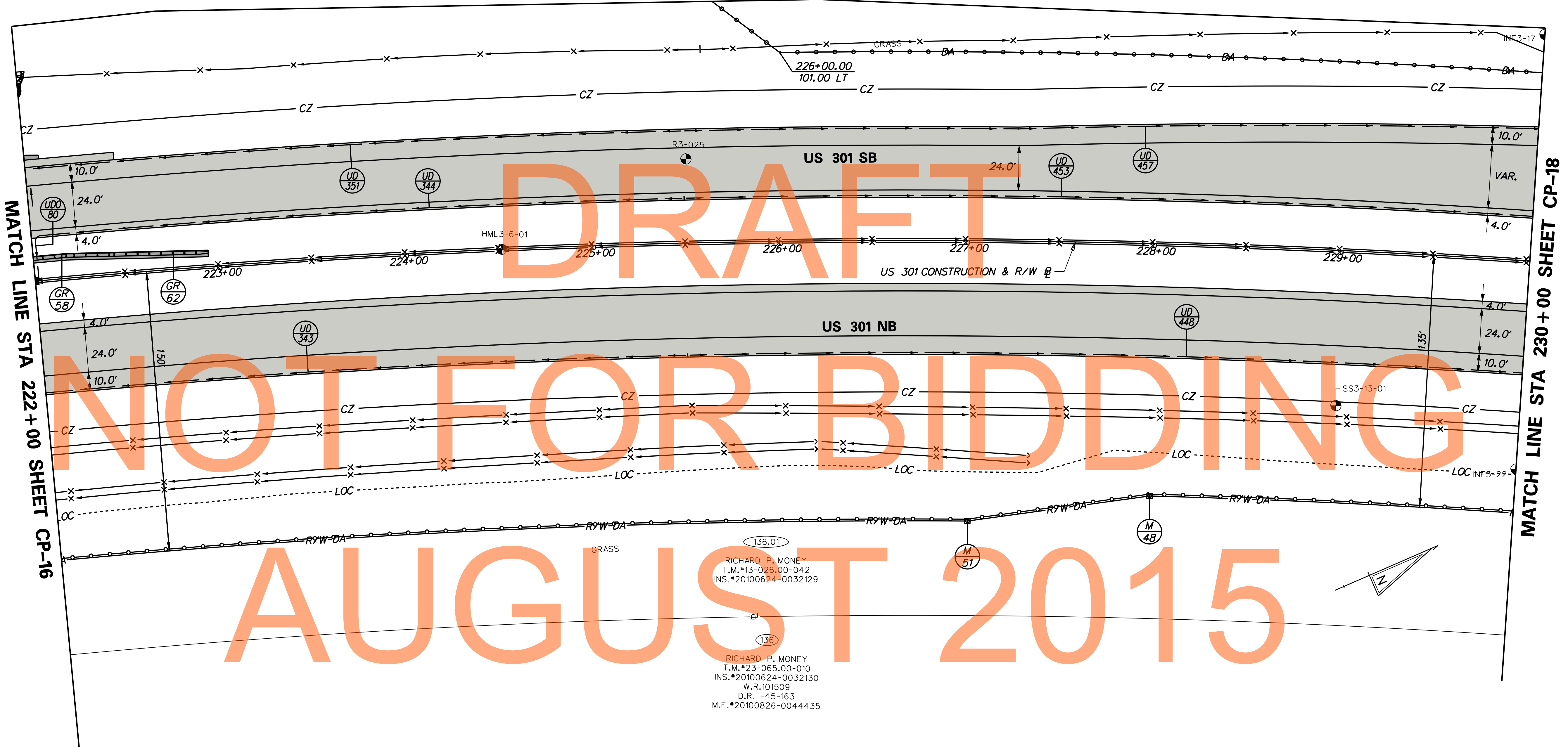
US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301
BRIDGE NO.
DESIGNED BY: MFM
COUNTY NEW CASTLE
CHECKED BY: SKH

CONSTRUCTION PLAN

SHEET NO. 73
TOTAL SHTS. 850

MATCH LINE SHEET CP-37



MATCH LINE STA 222+00 SHEET CP-16

MATCH LINE STA 230+00 SHEET CP-18

DRAFT
NOT FOR BIDDING
AUGUST 2015

136.01
RICHARD P. MONEY
T.M.#13-026.00-042
INS.#20100624-0032129

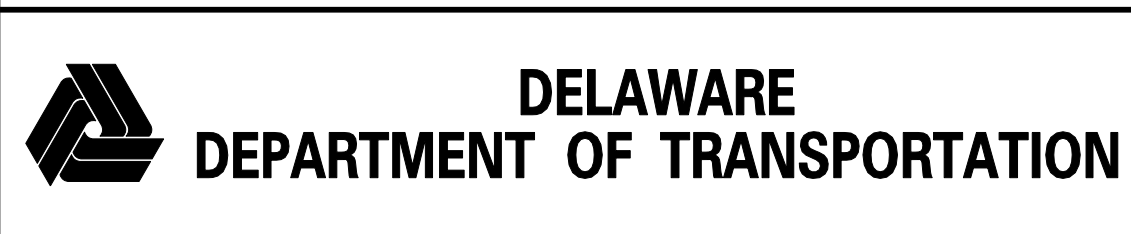
136
RICHARD P. MONEY
T.M.#23-065.00-010
INS.#20100624-0032130
W.R.101509
D.R.1-45-163
M.F.#20100826-0044435

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
62	END TREATMENT ATT, TYPE 3-31	222+43.05	11.40	50.00'

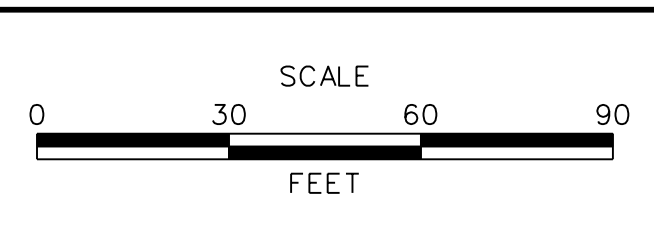
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
80	24.00'	75.92

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
48	228+00.00	135.0000	524044.3210	559996.1595
51	227+00.00	150.0000	523949.6934	559969.5439

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ADDENDUMS / REVISIONS	



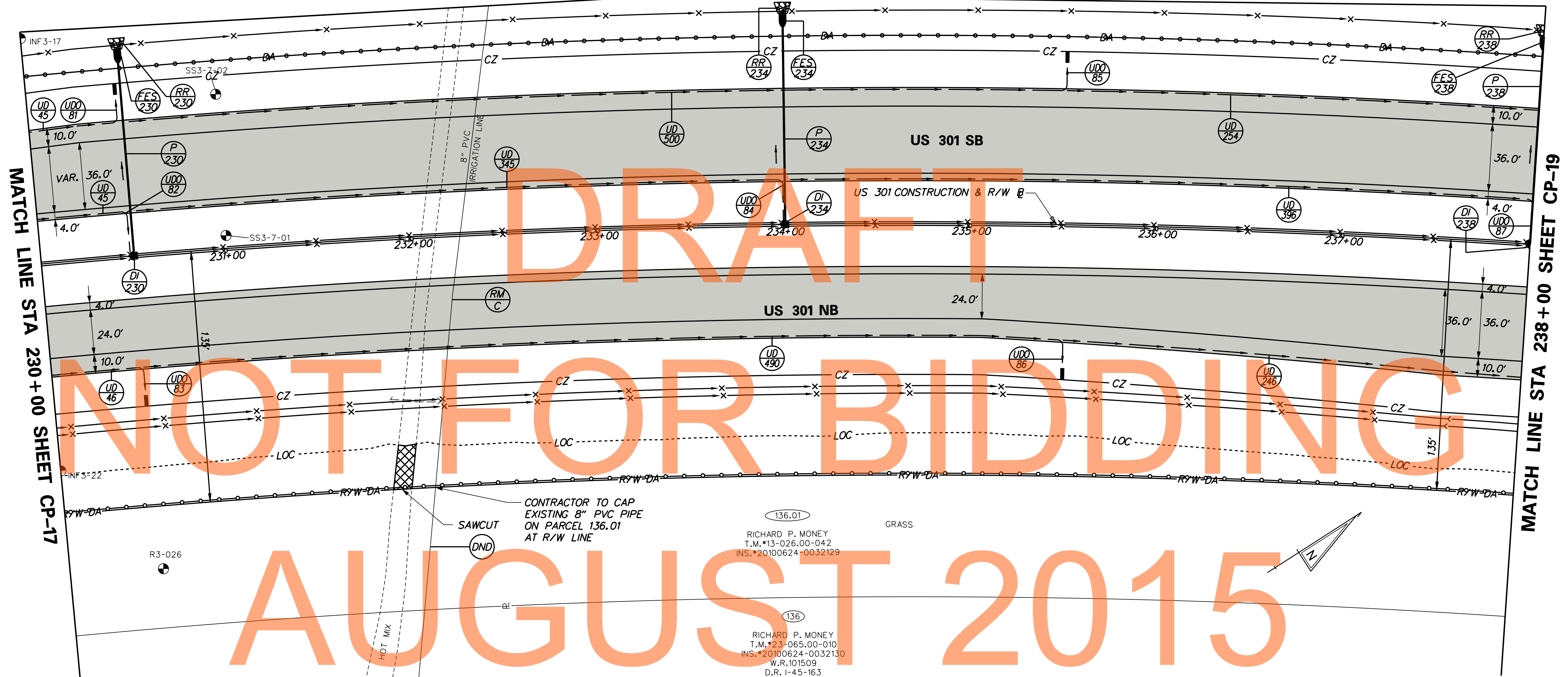
**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-17
SHEET NO. 74
TOTAL SHTS. 850

MATCH LINE SHEET CP-38



MATCH LINE STA 230+00 SHEET CP-17

MATCH LINE STA 238+00 SHEET CP-19

DRAFT
NOT FOR BIDDING
AUGUST 2015

CONTRACTOR TO CAP EXISTING 8" PVC PIPE ON PARCEL 136.01 AT R/W LINE

136.01
RICHARD P. MONEY
T.M.#13-026.00-042
INS.#20100624-0032129

136
RICHARD P. MONEY
T.M.#23-065.00-010
INS.#20100624-0032130
W.R.101509
D.R.1-45-163

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
81	20.00'	75.84
82	24.00'	74.71
83	19.25'	72.63
84	24.00'	72.31
85	19.25'	72.43
86	18.50'	69.17
87	24.00'	69.57

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
230	230+50.00	0.00	34" x 18"	2	75.36	72.65
234	234+00.00	0.00	34" x 18"	2	72.99	70.28
238	238+00.00	0.00	34" x 18"	2	70.31	67.60

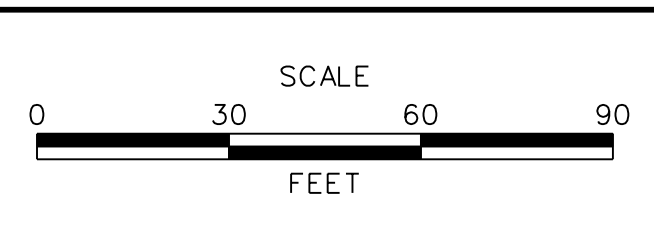
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
230	18" RCP	0.006	NO
234	18" RCP	0.011	NO
238	18" RCP	0.014	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
230	18" RCP	IV	104.3	0.006	72.65	72.04
234	18" RCP	IV	106.4	0.011	70.28	69.07
238	18" RCP	IV	105.0	0.014	67.60	66.09

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
230	R-4	5 SY
234	R-4	5 SY
238	R-4	5 SY



ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-18	
SHEET NO.	75
TOTAL SHTS.	850

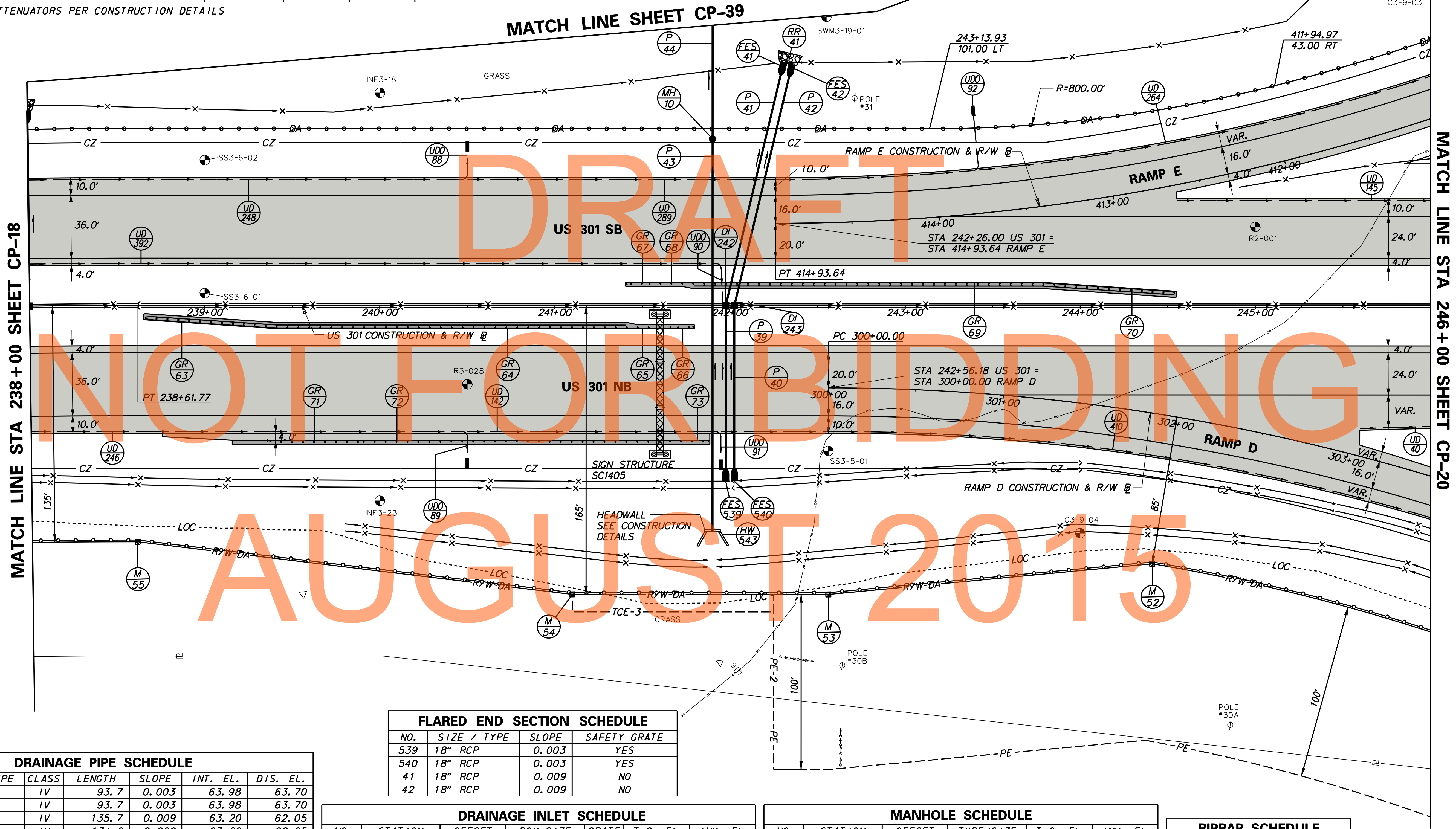
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GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
63	END TREATMENT ATT, TYPE 3-31	238+66.01	7.06	50.00'
64	GALVANIZED SBGR, TYPE 3-31	239+16.31	11.33	225.00'
65	GALVANIZED SBGR, TYPE 1-31	241+41.25	13.00	25.00'
66	END ANCHORAGE 31	241+66.25	13.00	12.50'
67	END ANCHORAGE 31	241+41.25	-13.00	12.50'
68	GALVANIZED SBGR, TYPE 1-31	241+53.75	-13.00	25.00'
69	GALVANIZED SBGR, TYPE 3-31	241+78.75	-13.00	225.00'
70	END TREATMENT ATT, TYPE 3-31	244+03.69	-11.33	50.00'
71	END TREATMENT ATT, TYPE 1-31	239+37.50	B	50.00'
72	GALVANIZED SBGR, TYPE 1-31	239+87.50	77.00	187.50'
73	END ANCHORAGE 31	241+75.00	77.00	12.50'

B = OFFSET ATTENUATORS PER CONSTRUCTION DETAILS

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
88	19.50'	67.22
89	19.25'	66.57
90	24.00'	65.74
91	20.25'	66.73
92	31.50'	63.61

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
52	302+00.00	85.0000	525380.6768	560889.8711
53	300+00.00	118.0000	525222.7739	560791.9420
54	241+10.00	165.0000	525106.3771	560703.5075
55	238+61.77	135.0000	524926.8758	560529.4517



MATCH LINE STA 238+00 SHEET CP-18

MATCH LINE STA 246+00 SHEET CP-20

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
539	18" RCP	0.003	YES
540	18" RCP	0.003	YES
41	18" RCP	0.009	NO
42	18" RCP	0.009	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
39	18" RCP	IV	93.7	0.003	63.98	63.70
40	18" RCP	IV	93.7	0.003	63.98	63.70
41	18" RCP	IV	135.7	0.009	63.20	62.05
42	18" RCP	IV	134.6	0.009	63.20	62.05
43	60" RCP	IV	220.2	0.002	56.40	55.96
44	60" RCP	IV	115.8	0.003	55.73	55.38

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
242	241+97.54	0.00	34" x 24"	2	68.26	63.20
243	242+02.46	0.00	34" x 24"	2	68.26	63.20

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
10	241+90.00	-95.25	SEE DETAIL	66.50	55.73

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
41	R-4	8 SY



ADDENDUMS / REVISIONS



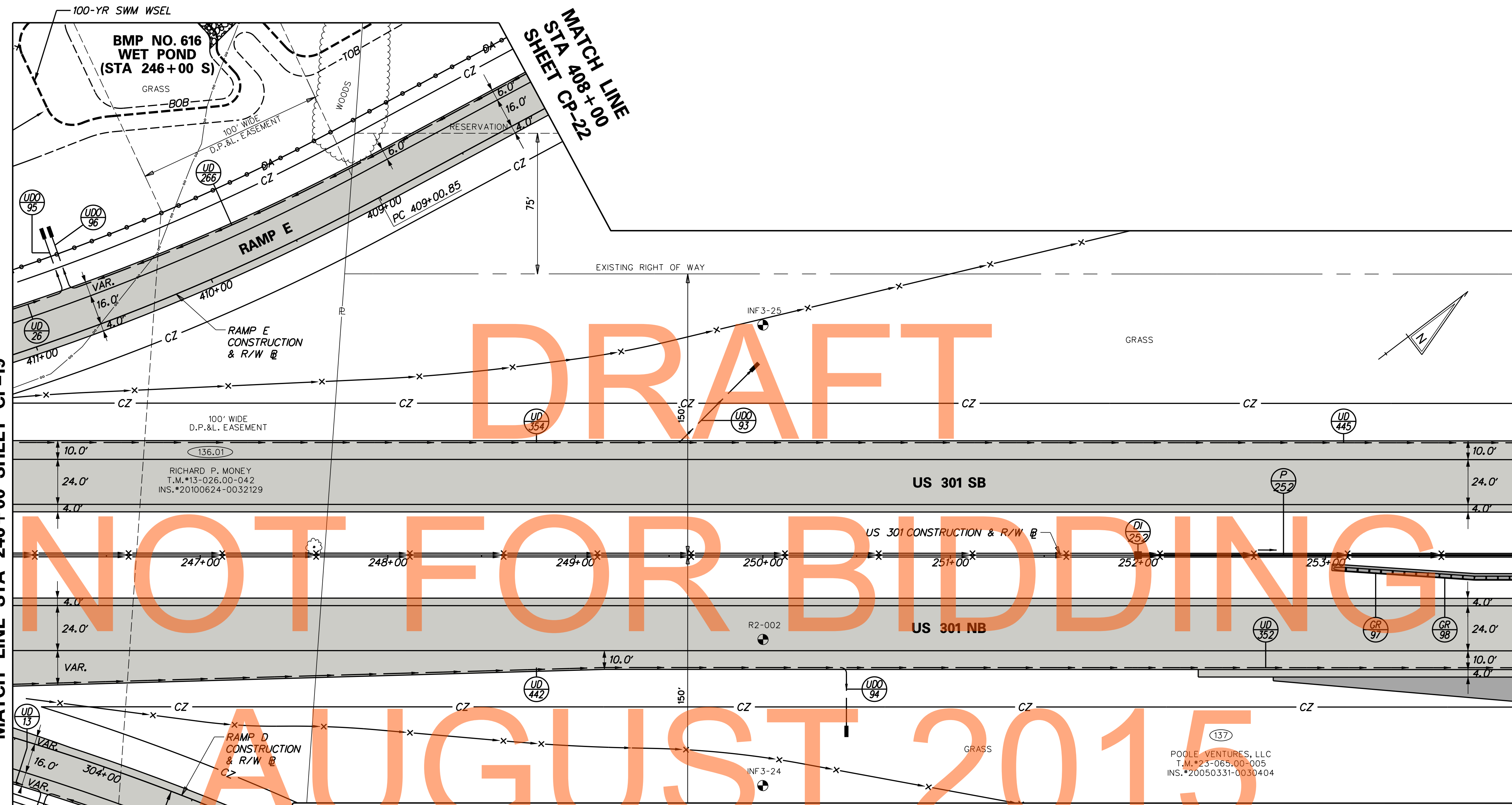
US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-19	SHEET NO. 76
	TOTAL SHTS. 850

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DRAFT

NOT FOR BIDDING

AUGUST 2015

UNDERDRAIN OUTLETS			
NO.	LENGTH	DIS. EL.	
93	54.50'	60.06	
94	31.50'	59.92	
95	30.50'	61.26	
96	30.50'	61.26	
97	30.75'	60.98	
98	30.75'	60.98	

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
97	END TREATMENT ATT, TYPE 3-31	253+04.43	7.07'	50.00'
98	GALVANIZED SBGR, TYPE 3-31	253+54.73	11.34'	225.00'

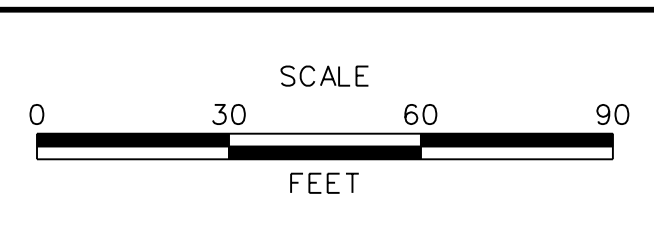
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
252	14" x 23" HERCP	IV	297.3	0.007	59.12	57.04

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
252	252+00.00	0.00	34" x 18"	2	61.49	59.12

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

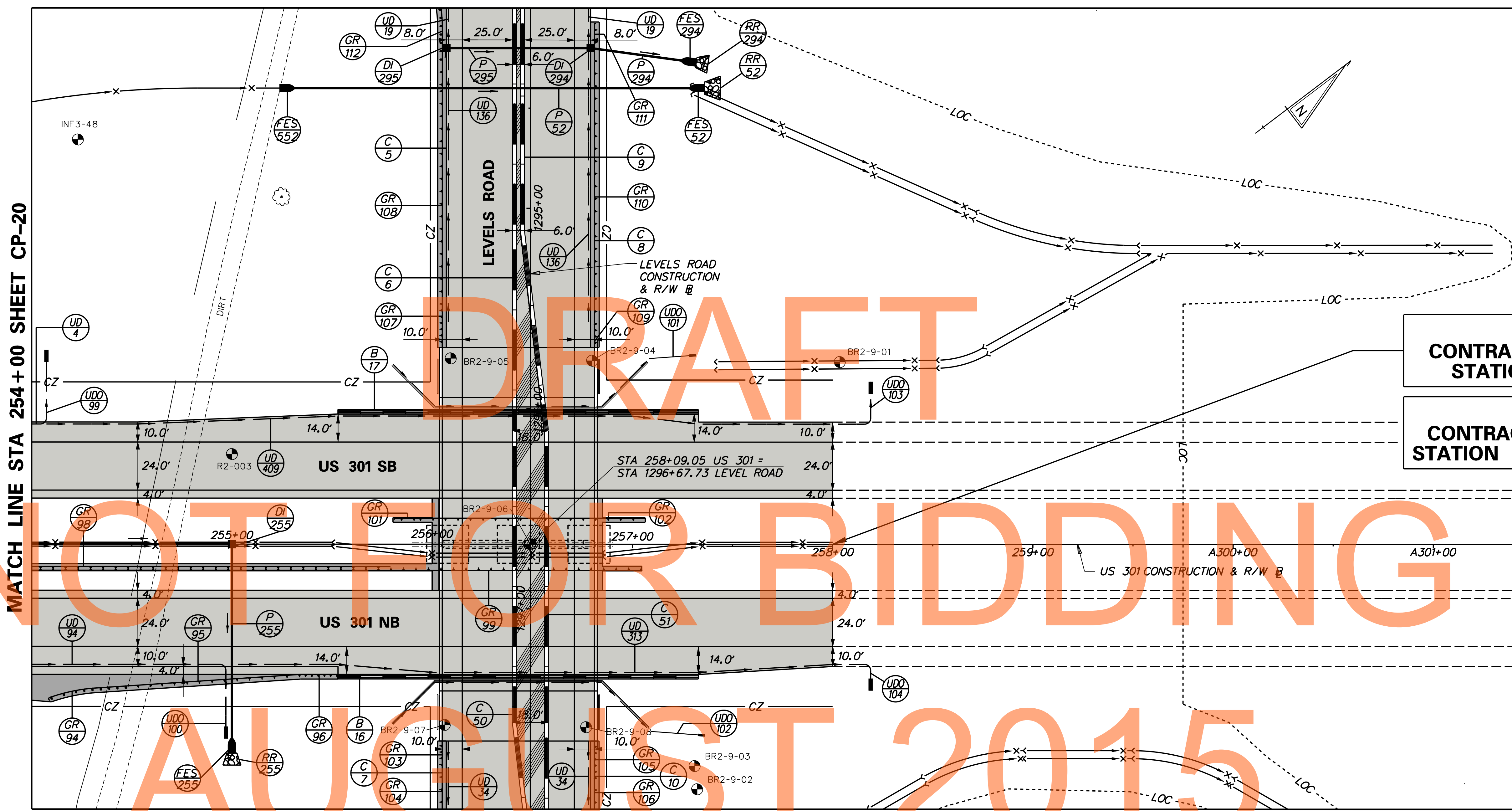
CONSTRUCTION PLAN

CP-20
SHEET NO. 77
TOTAL SHTS. 850

BARRIER SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
16	P. C. C. SAFETY BARRIER PERM., SF, MOD.	180.00
17	P. C. C. SAFETY BARRIER PERM., SF, MOD.	180.00

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
255	255+00.00	0.00	48" x 48"	2	59.45	56.30
294	1294+20.00	-30.00	72" x 24"	1	76.21	59.55
295	1294+20.00	42.00	72" x 24"	1	76.30	72.00

MATCH LINE STA 1294+00 SHEET CP-23



END
CONTRACT T200811301
STATION 258+00

SEE
CONTRACT T200911303
STATION 258+00 AHEAD

NOT FOR BIDDING

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
255	R-4	5 SY
294	R-4	5 SY
52	R-4	8 SY

MATCH LINE STA 1298+00 SHEET CP-25

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
94	END TREATMENT ATT, TYPE 2-31	254+09.71	A	50.00'
95	GALVANIZED SBGR, TYPE 1-31	254+59.40	69.98'	75.00'
96	GR TO BAR. CONN., APPROACH TYPE 1-31	255+34.24	65.00'	18.75'
99	GALVANIZED SBGR, TYPE 1-31	255+79.67	13.00'	125.00'
101	END ANCHORAGE 31	255+81.42	-13.00'	12.50'
102	GALVANIZED SBGR, TYPE 1-31	255+93.92	-13.00'	112.50'
103	GR TO BAR. CONN., EXIT TYPE 31	1297+65.98	44.00'	11.50'
104	GALVANIZED SBGR, TYPE 1-31	1297+77.48	44.00'	250.00'
105	GR TO BAR. CONN., APPROACH TYPE 1-31	1297+65.98	-32.00'	18.75'
106	GALVANIZED SBGR, TYPE 1-31	1297+84.73	-32.00'	300.00'
107	GR TO BAR. CONN., APPROACH TYPE 1-31	1295+50.73	44.00'	18.75'

FLARED END SECTION SCHEDULE				
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE	
255	14" x 23" HERCP	0.003	NO	
294	18" RCP	0.030	NO	
552	24" RCP	0.004	NO	
52	24" RCP	0.004	NO	

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
255	14" x 23" HERCP	IV	96.3	0.003	56.30	56.02
294	18" RCP	IV	70.0	0.030	72.00	69.90
294	18" RCP	IV	46.1	0.030	59.55	58.18
52	24" RCP	IV	200.0	0.004	56.78	56.02

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
5	P. C. C. CURB, TYPE 1-4	153.48
6	P. C. C. CURB, TYPE 2	169.48
7	P. C. C. CURB, TYPE 1-4	34.02
8	P. C. C. CURB, TYPE 1-4	153.48
9	P. C. C. CURB, TYPE 2	169.90
10	P. C. C. CURB, TYPE 1-4	34.02
50	P. C. C. CURB, TYPE 2	34.27
51	P. C. C. CURB, TYPE 2	34.02

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
108	GALVANIZED SBGR, TYPE 1-31	1294+38.23	44.00'	112.50'
109	GR TO BAR. CONN., EXIT TYPE 31	1295+57.98	-32.00'	11.50'
110	GALVANIZED SBGR, TYPE 1-31	1294+20.48	-32.00'	137.50'
111	END ANCHORAGE 31	1294+07.98	-32.00'	12.50'

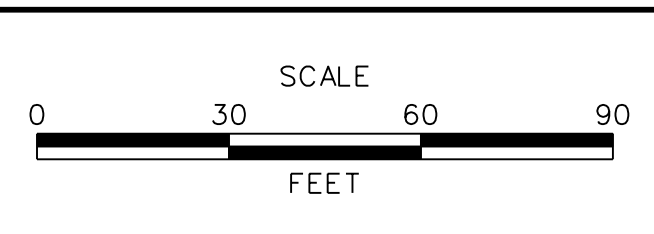
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
99	31.50'	57.83
100	31.50'	56.82
101	19.75'	59.85
102	23.75'	58.02
103	20.75'	55.96
104	10.50'	56.12

A = OFFSET ATTENUATORS AS PER DELDOT STANDARD CONSTRUCTION DETAILS

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ADDENDUMS / REVISIONS	

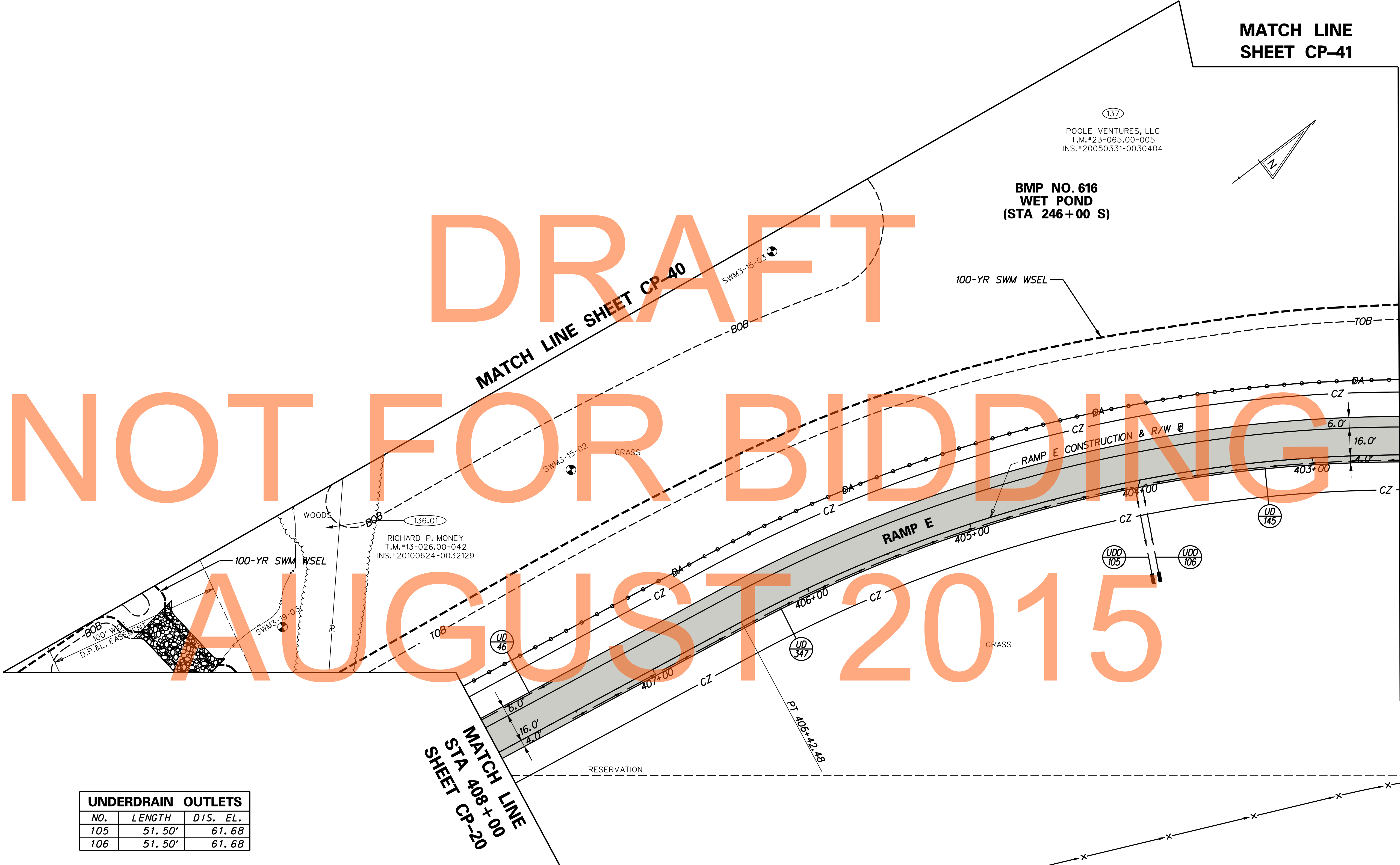


US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-21	SHEET NO. 78
	TOTAL SHTS. 850



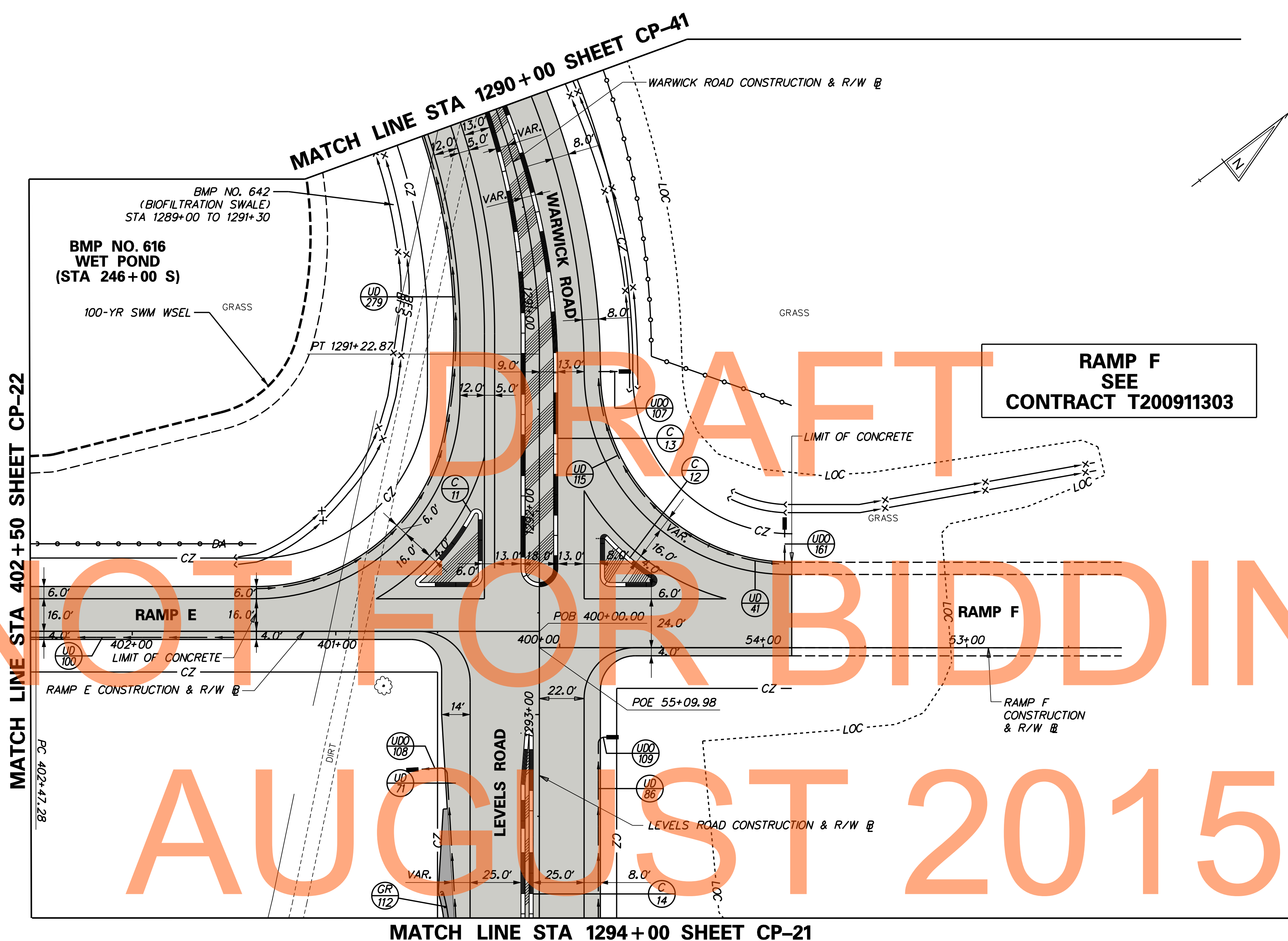
DRAFT
NOT FOR BIDDING
AUGUST 2015

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
105	51.50'	61.68
106	51.50'	61.68

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	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	US 301 MARYLAND STATE LINE TO LEVELS ROAD	CONTRACT T200811301 COUNTY NEW CASTLE	BRIDGE NO. DESIGNED BY: MFM CHECKED BY: SKH	CONSTRUCTION PLAN	SHEET NO. 79 TOTAL SHTS. 850
	CP-22							

NOT FOR BIDDING



UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
107	15.00'	65.12
108	19.00'	69.86
109	9.00'	70.53
161	23.00'	63.50

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
11	P. C. C. CURB, TYPE 2	119.27
12	P. C. C. CURB, TYPE 2	88.90
13	P. C. C. CURB, TYPE 2	484.27
14	P. C. C. CURB, TYPE 2	187.44

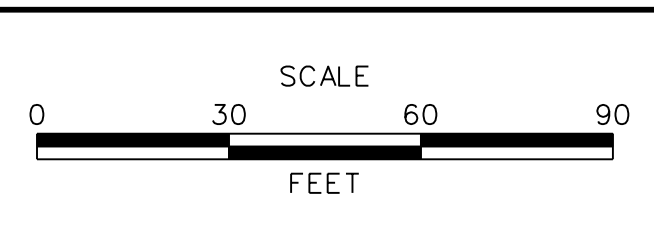
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
112	END TREATMENT ATT, TYPE 2-31	1293+88.23	47.27'	50.00'

A = OFFSET ATTENUATORS AS PER STANDARD DETAILS

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ADDENDUMS / REVISIONS	



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

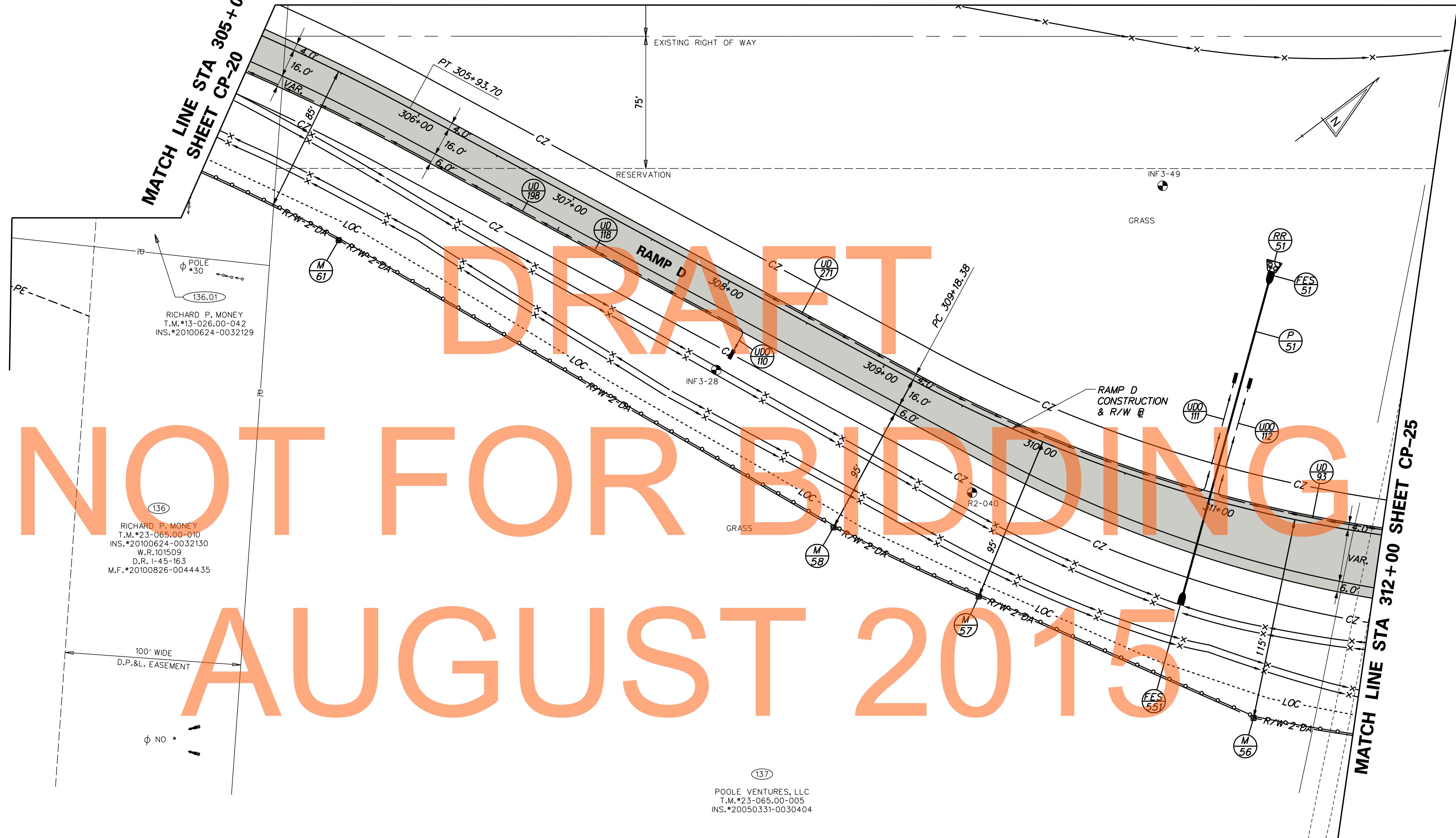
CONSTRUCTION PLAN

CP-23	
SHEET NO.	80
TOTAL SHTS.	850

DRAFT
NOT FOR BIDDING
AUGUST 2015

MATCH LINE STA 305+00
SHEET CP-20

MATCH LINE STA 312+00
SHEET CP-25



136.01
RICHARD P. MONEY
T.M.*13-026.00-042
INS.*20100624-0032129

136
RICHARD P. MONEY
T.M.*23-065.00-010
INS.*20100624-0032130
W.R.101509
D.R.1-45-163
M.F.*20100826-0044435

137
POOLE VENTURES, LLC
T.M.*23-065.00-005
INS.*20050331-0030404

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
56	311+50.00	115.0000	525833.0501	561722.5279
57	310+00.00	95.0000	525750.4917	561573.2289
58	309+18.38	95.0000	525708.5574	561492.1547
61	305+93.70	85.0000	525583.3988	561192.4026

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
110	17.75'	63.85
111	63.50'	61.65
112	63.50'	61.65

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
51	18" RCP	IV	184.0	0.008	59.45	58.05

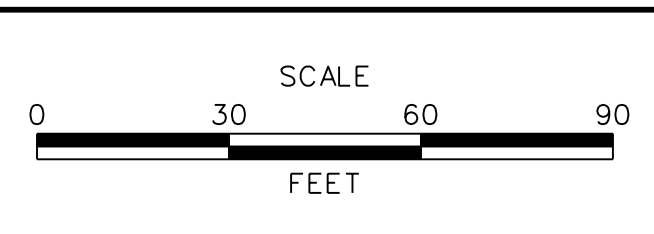
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
551	18" RCP	0.008	NO
51	18" RCP	0.008	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
51	R-4	5 SY

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN	SHEET NO.
	81
	TOTAL SHTS. 850

CP-24

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
113	END ANCHORAGE 31	1300+27.48	44.00'	12.50'
114	CURVED GUARDRAIL SECTION	1300+78.48	-32.00'	31.25'
115	GALVANIZED SBGR, TYPE 1-31	10+47.00	-6.00	12.50'
116	END ANCHORAGE 31	10+59.50	-6.00	12.50'

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
113	36.50'	68.39
162	21.75'	63.56

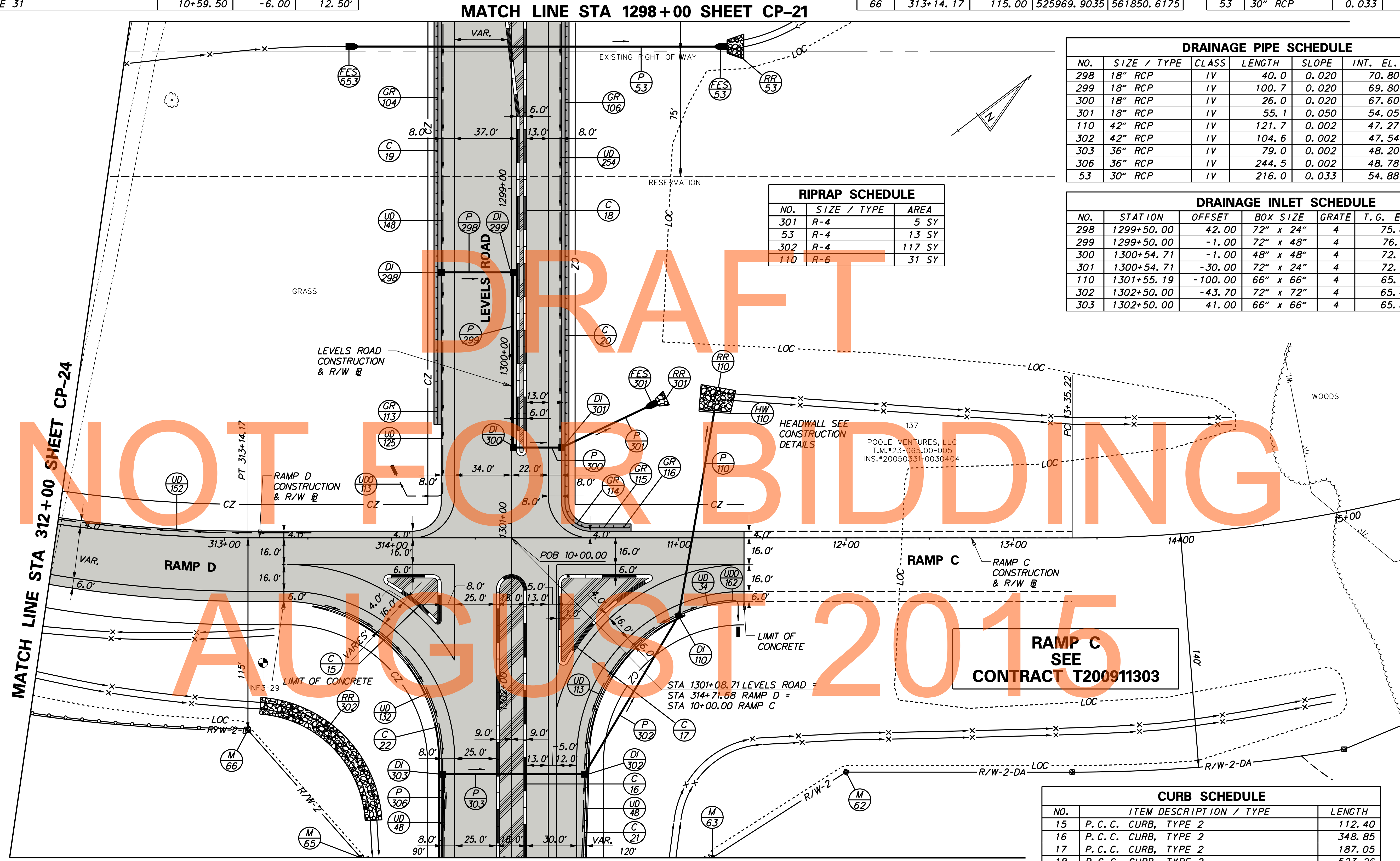
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
62	1302+48.71	-200.00	526239.4410	562086.8005
63	1303+00.00	-120.00	526144.7147	562079.2397
65	1303+00.00	90.00	525977.5019	561952.1968
66	313+14.17	115.00	525969.9035	561850.6175

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
299	18" RCP	0.090	NO
301	18" RCP	0.100	NO
553	30" RCP	0.033	NO
53	30" RCP	0.033	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
298	18" RCP	IV	40.0	0.020	70.80	70.00
299	18" RCP	IV	100.7	0.020	69.80	67.80
300	18" RCP	IV	26.0	0.020	67.60	67.08
301	18" RCP	IV	55.1	0.050	54.05	51.30
110	42" RCP	IV	121.7	0.002	47.27	47.00
302	42" RCP	IV	104.6	0.002	47.54	47.36
303	36" RCP	IV	79.0	0.002	48.20	48.04
306	36" RCP	IV	244.5	0.002	48.78	48.30
53	30" RCP	IV	216.0	0.033	54.88	47.70

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
301	R-4	5 SY
53	R-4	13 SY
302	R-4	117 SY
110	R-6	31 SY

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
298	1299+50.00	42.00	72" x 24"	4	75.67	70.80
299	1299+50.00	-1.00	72" x 48"	4	76.31	69.80
300	1300+54.71	-1.00	48" x 48"	4	72.80	67.60
301	1300+54.71	-30.00	72" x 24"	4	72.30	54.05
110	1301+55.19	-100.00	66" x 66"	4	65.00	47.27
302	1302+50.00	-43.70	72" x 72"	4	65.47	47.54
303	1302+50.00	41.00	66" x 66"	4	65.83	48.20



MATCH LINE STA 312+00 SHEET CP-24

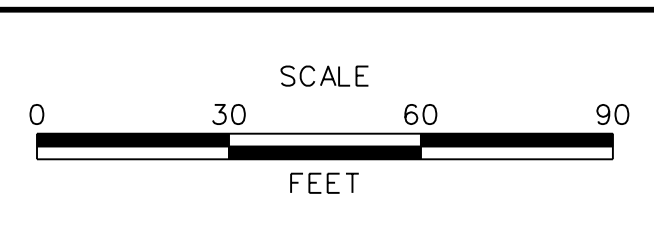
MATCH LINE STA 1303+00 SHEET CP-42

RAMP C SEE CONTRACT T200911303

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS	



US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-25
SHEET NO. 82
TOTAL SHTS. 850

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
117	END TREATMENT ATTENUATOR, TYPE 2-31	1006+30.58	22.00'	50.00'
118	END TREATMENT ATTENUATOR, TYPE 2-31	1007+55.58	-22.00'	50.00'

RIPRAP SCHEDULE			
NO.	SIZE / TYPE	AREA	
3	R-4	25 SY	
5	R-4	8 SY	
77	R-4	30 SY	
78	R-4	34 SY	
81	R-4	6 SY	

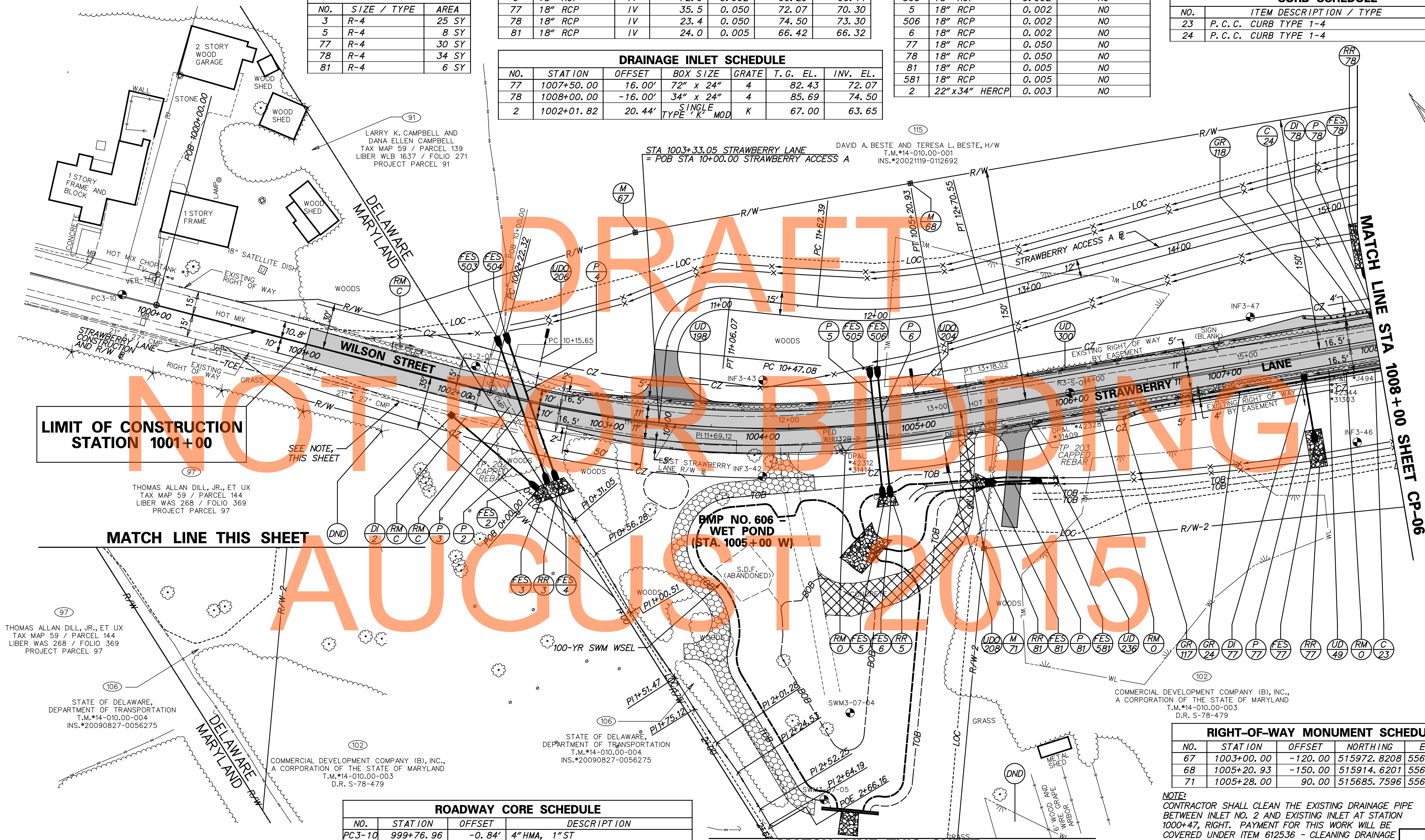
DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
2	22" x 34" HERCP	IV	65.5	0.003	63.65	63.43	
3	30" RCP	V	88.0	0.005	64.67	64.23	
4	30" RCP	V	88.0	0.005	64.67	64.23	
5	18" RCP	IV	72.0	0.002	66.29	66.11	
6	18" RCP	IV	72.0	0.002	66.29	66.11	
77	18" RCP	IV	35.5	0.050	72.07	70.30	
78	18" RCP	IV	23.4	0.050	74.50	73.30	
81	18" RCP	IV	24.0	0.005	66.42	66.32	

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
503	30" RCP	0.005	NO
3	30" RCP	0.005	NO
504	30" RCP	0.005	NO
4	30" RCP	0.005	NO
505	18" RCP	0.002	NO
5	18" RCP	0.002	NO
506	18" RCP	0.002	NO
6	18" RCP	0.002	NO
77	18" RCP	0.050	NO
78	18" RCP	0.050	NO
81	18" RCP	0.005	NO
581	18" RCP	0.005	NO
2	22" x 34" HERCP	0.003	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
204	9.00'	68.60
206	31.00'	65.90
208	15.00'	68.50

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
23	P. C. C. CURB TYPE 1-4	119.00
24	P. C. C. CURB TYPE 1-4	3.42

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
77	1007+50.00	16.00'	72" x 24"	4	82.43	72.07
78	1008+00.00	-16.00'	34" x 24"	4	85.69	74.50
2	1002+01.82	20.44'	SINGLE TYPE 'K' MOD K		67.00	63.65



LIMIT OF CONSTRUCTION STATION 1001+00

MATCH LINE THIS SHEET

BMP NO. 606 - WET POND (STA. 1005+00 W)

MATCH LINE STA 1008+00 SHEET CP-06

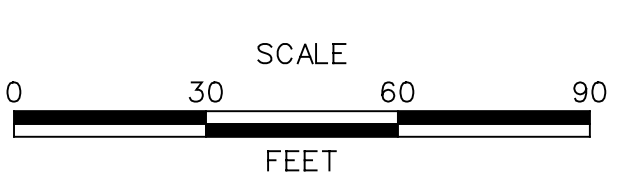
ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-10	999+76.96	-0.84'	4" HMA, 1" ST

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	STATION	OFFSET	NORTHING	EASTING	
67	1003+00.00	-120.00	515972.8208	556560.7687	
68	1005+20.93	-150.00	515914.6201	556731.1389	
71	1005+28.00	90.00	515865.7596	556658.5246	

NOTE: CONTRACTOR SHALL CLEAN THE EXISTING DRAINAGE PIPE BETWEEN INLET NO. 2 AND EXISTING INLET AT STATION 1000+47, RIGHT. PAYMENT FOR THIS WORK WILL BE COVERED UNDER ITEM 612536 - CLEANING DRAINAGE PIPE, GREATER THAN 24" DIA.



ADDENDUMS / REVISIONS	



US 301 MARYLAND STATE LINE TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MAG/TAM
	CHECKED BY: PAH

CONSTRUCTION PLAN		SHEET NO. 83
		TOTAL SHTS. 850

CP-26

MATCH LINE STA 1102+50 SHEET CP-07

GPM2, LLC, A DELAWARE LIMITED LIABILITY COMPANY
T.M.#14-010.00-016
INS.#20030707-0080421

100-YR SWM WSEL
SEE SW-40

GPM2, LLC, A DELAWARE LIMITED LIABILITY COMPANY
T.M.#14-010.00-016
INS.#20030707-0080421

STATE OF DELAWARE
(DEPARTMENT OF TRANSPORTATION)
T.M.#14-010.00-018
INS.#20040503-0048766

GPM2, LLC, A DELAWARE LIMITED LIABILITY COMPANY
T.M.#14-010.00-015
INS.#20030707-0080421

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
120	END TREATMENT ATTENUATOR, TYPE 2-31	1100+82.00	-18.00'	50.00'
122	CURVED GUARDRAIL	1100+82.00	18.00'	125.00'
123	GALVANIZED SBGR, TYPE 1-31	1015+12.00	-18.00'	62.50'
124	END TREATMENT ATTENUATOR, TYPE 2-31	1015+74.50	-18.00'	50.00'
125	END TREATMENT ATTENUATOR, TYPE 2-31	1015+00.00	18.00'	50.00'

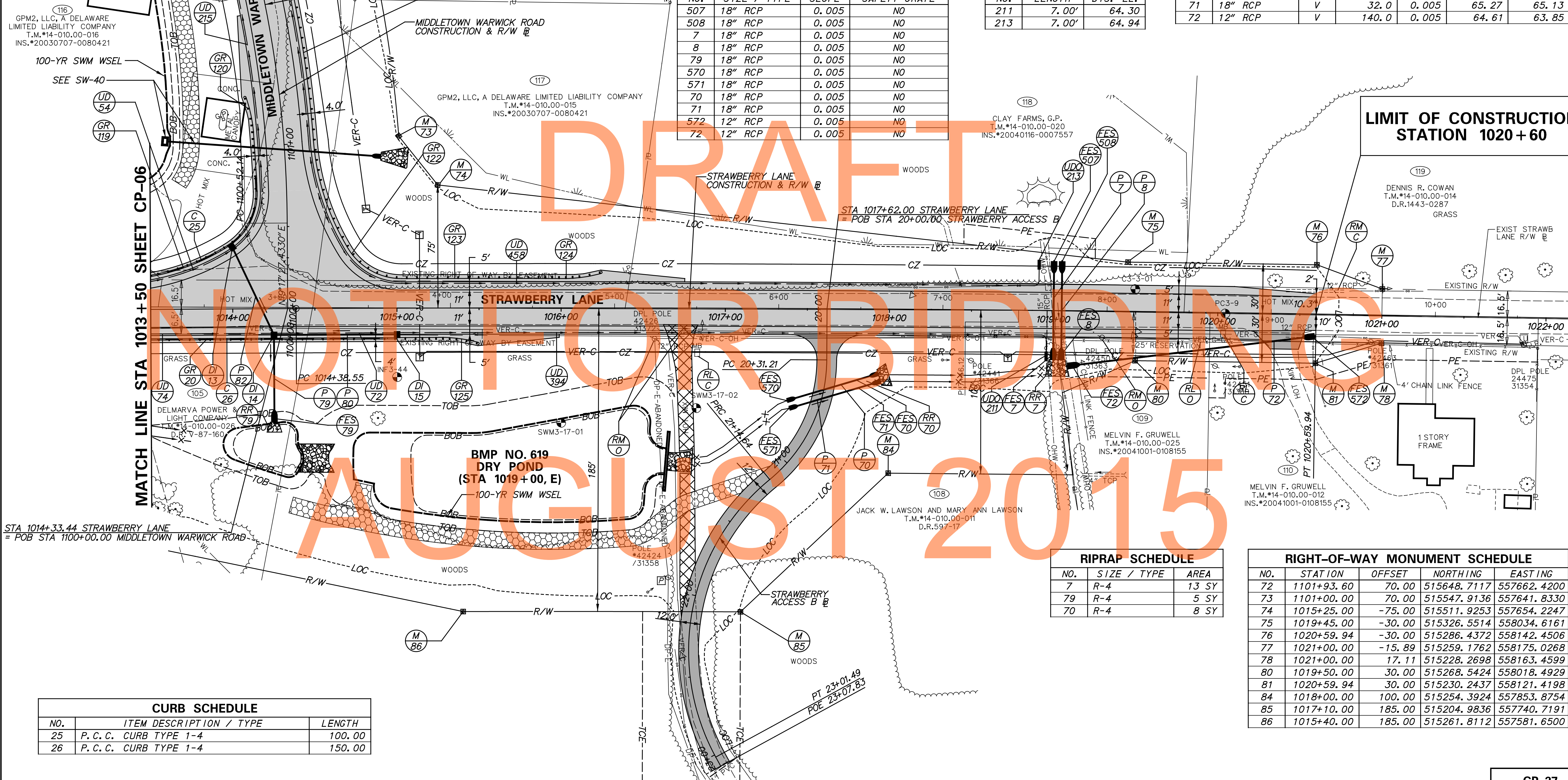
ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-9	1020+04.63	0.54'	4" HMA, 1.25" ST, 3" ATB

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
507	18" RCP	0.005	NO
508	18" RCP	0.005	NO
7	18" RCP	0.005	NO
8	18" RCP	0.005	NO
79	18" RCP	0.005	NO
570	18" RCP	0.005	NO
571	18" RCP	0.005	NO
70	18" RCP	0.005	NO
71	18" RCP	0.005	NO
572	12" RCP	0.005	NO
72	12" RCP	0.005	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
211	7.00'	64.30
213	7.00'	64.94

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
13	1014+00.00	-37.41	34" x 24"	4	88.81	84.00
14	1014+25.00	16.00	48" x 30"	4	88.16	70.05
15	1015+00.00	16.00	48" x 30"	4	83.28	79.40

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
7	18" RCP	V	48.0	0.005	63.57	63.33
8	18" RCP	V	48.0	0.005	63.57	63.33
82	18" RCP	IV	56.8	0.005	84.00	83.73
79	18" RCP	IV	45.2	0.050	70.05	67.80
80	18" RCP	IV	72.3	0.005	79.40	79.03
70	18" RCP	V	32.0	0.005	65.27	65.13
71	18" RCP	V	32.0	0.005	65.27	65.13
72	12" RCP	V	140.0	0.005	64.61	63.85



**LIMIT OF CONSTRUCTION
STATION 1020+60**

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
7	R-4	13 SY
79	R-4	5 SY
70	R-4	8 SY

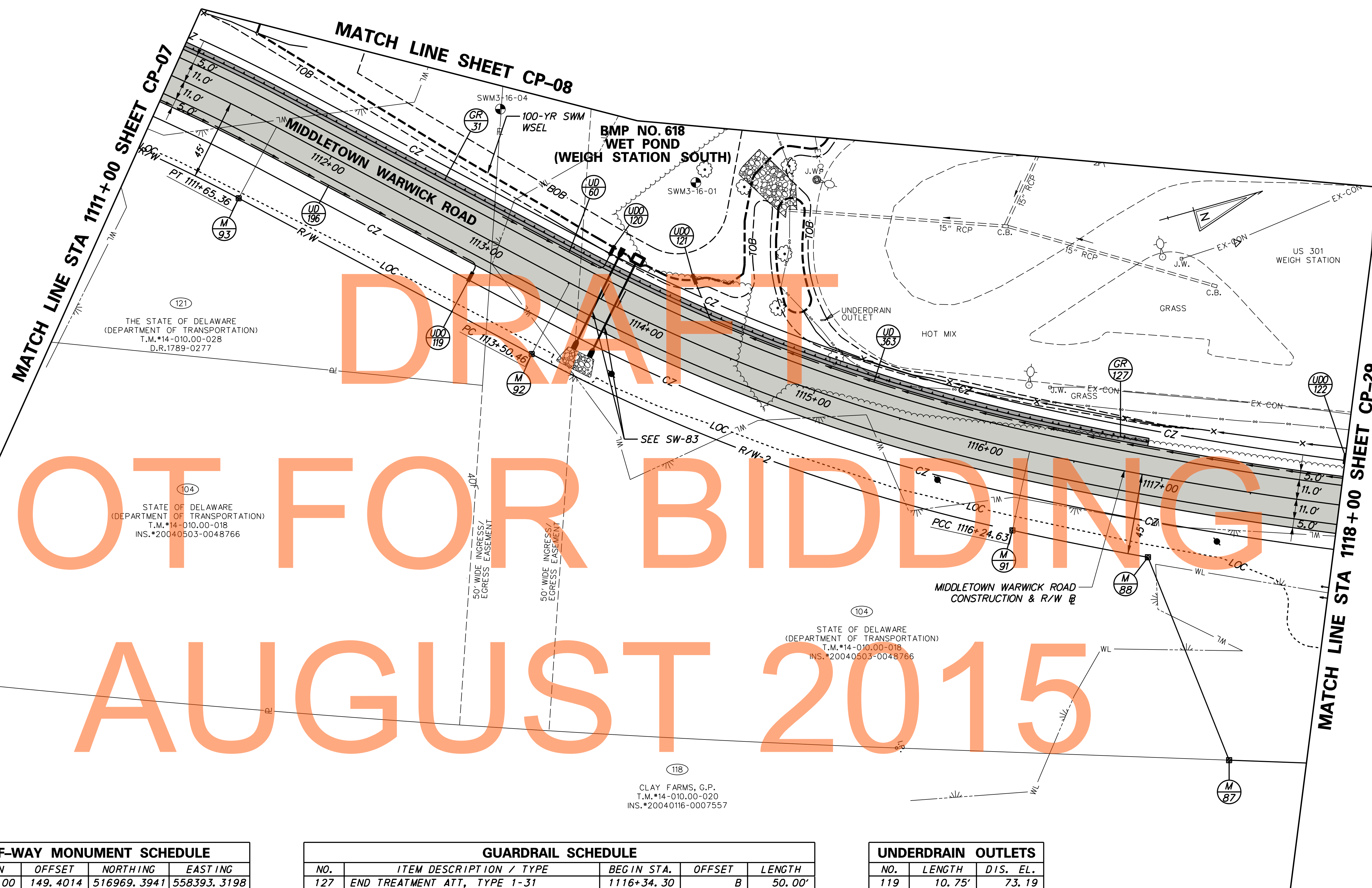
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
72	1101+93.60	70.00	515648.7117	557662.4200
73	1101+00.00	70.00	515547.9136	557641.8330
74	1015+25.00	-75.00	515511.9253	557654.2247
75	1019+45.00	-30.00	515326.5514	558034.6161
76	1020+59.94	-30.00	515286.4372	558142.4506
77	1021+00.00	-15.89	515259.1762	558175.0268
78	1021+00.00	17.11	515228.2698	558163.4599
80	1019+50.00	30.00	515268.5424	558018.4929
81	1020+59.94	30.00	515230.2437	558121.4198
84	1018+00.00	100.00	515254.3924	557853.8754
85	1017+10.00	185.00	515204.9836	557740.7191
86	1015+40.00	185.00	515261.8112	557581.6500

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
25	P.C.C. CURB TYPE 1-4	100.00
26	P.C.C. CURB TYPE 1-4	150.00

DRAFT

NOT FOR BIDDING

AUGUST 2015



RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
87	1117+60.00	149.4014	516969.3941	558393.3198
88	1117+00.00	45.0000	516956.7351	558272.0965
91	1116+24.63	45.0000	516888.1086	558237.0482
92	1113+50.46	45.0000	516657.0098	558069.2202
93	1111+65.36	45.0000	516523.5025	557941.0025

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEG IN STA.	OFFSET	LENGTH
127	END TREATMENT ATT, TYPE 1-31	1116+34.30	B	50.00'

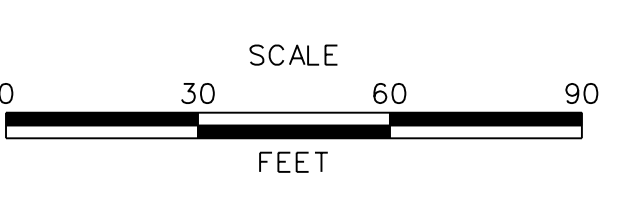
B = OFFSET ATTENUATORS AS PER CONSTRUCTION DETAILS

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
119	10.75'	73.19
120	14.00'	71.82
121	27.00'	71.13
122	11.50'	73.61

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN	
SHEET NO. 85	
TOTAL SHTS. 850	

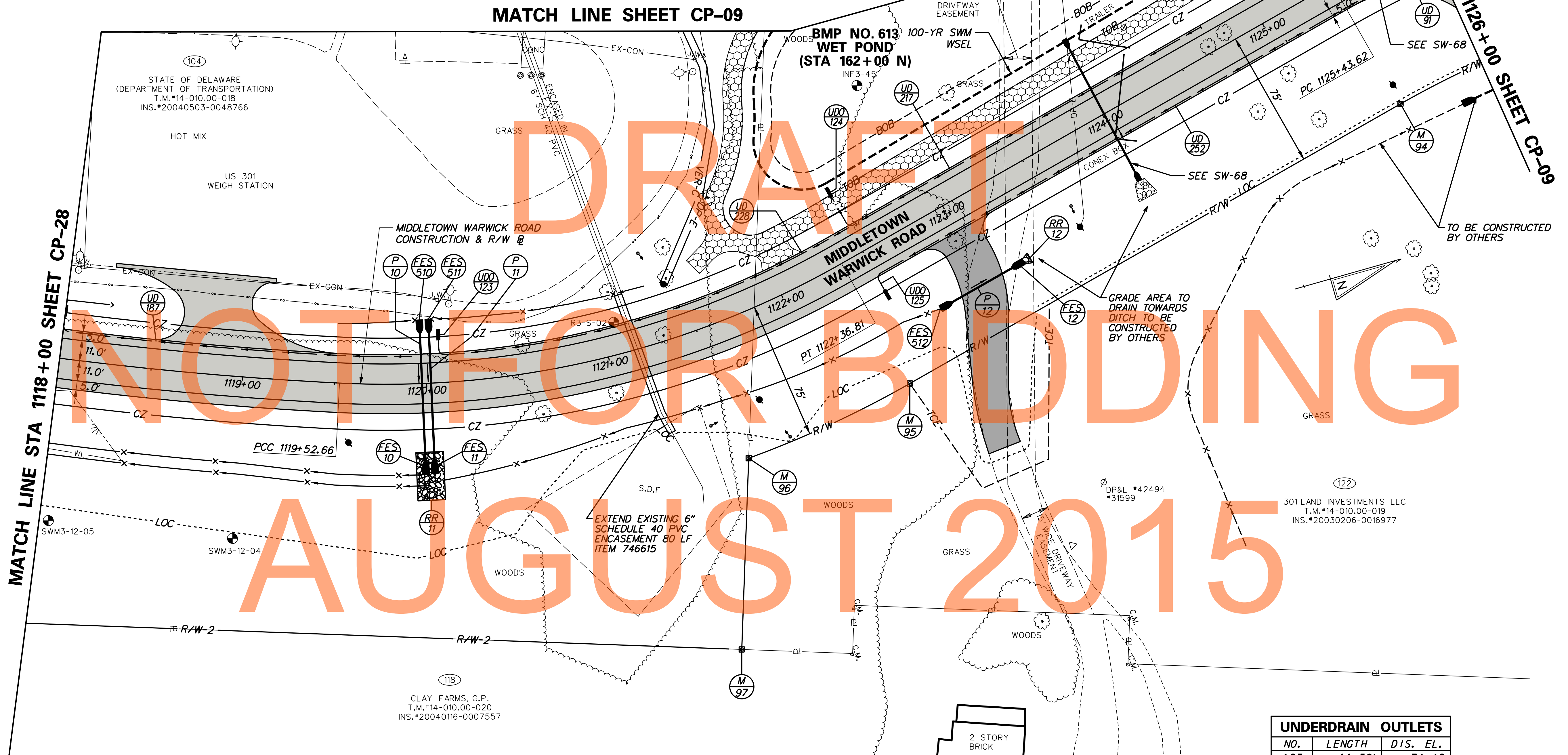
CP-28

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
10	18" RCP	V	72.0	0.011	73.43	72.63
11	18" RCP	V	72.0	0.011	74.43	72.63
12	12" RCP	IV	40.0	0.005	74.38	74.22

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
11	R-4	44 SY
12	R-4	2 SY

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
510	18" RCP	0.011	NO
10	18" RCP	0.011	NO
511	18" RCP	0.011	NO
11	18" RCP	0.011	NO
512	12" RCP	0.005	NO
12	12" RCP	0.005	NO

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
94	1125+43.62	75.0000	517805.8909	558339.1993
95	1122+36.81	75.0000	517507.9682	558412.5152
96	1121+52.81	75.0000	517412.6747	558427.6295
97	1121+23.69	172.4313	517380.6863	558526.5285

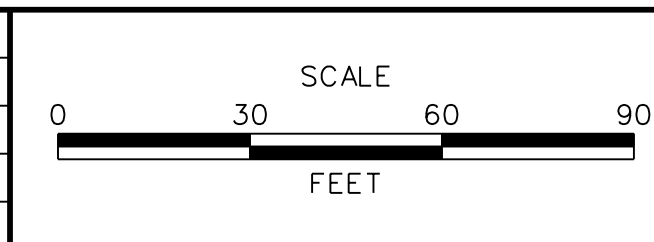


UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
123	11.50'	74.42
124	24.00'	75.99
125	13.25'	76.91

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-29	
SHEET NO.	86
TOTAL SHTS.	850

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
98	1201+02.79	-40.1539	518973.2916	557701.6705
101	1203+14.69	-75.0000	519103.3504	557872.5590
102	1203+65.66	61.3781	519009.4118	557983.5728
103	1202+75.00	60.0000	518965.4867	557900.7372
104	1202+00.00	39.7779	518948.2165	557825.0030

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
515	24" RCP	0.003	NO
15	24" RCP	0.003	NO
516	24" RCP	0.003	NO
16	24" RCP	0.003	NO
517	24" RCP	0.003	NO
17	24" RCP	0.003	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
15	24" RCP	V	56.0	0.003	66.68	66.52
16	24" RCP	V	56.0	0.003	66.68	66.52
17	24" RCP	V	56.0	0.003	66.68	66.52

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
15	R-4	23 SY
203	R-4	50 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
126	13.50'	67.56

**LIMIT OF CONSTRUCTION
CONTRACT T200811301
STATION 1201+50**

DRAFT
NOT FOR BIDDING
AUGUST 2015

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-16	1200+81+34	-1.41	4" HMA OVER 8" PCC
PC3-17	1199+76.92	15.14	5 1/2" HMA

ADDENDUMS / REVISIONS



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-30
SHEET NO. 87
TOTAL SHTS. 850

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FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
500	18" RCP	0.007	NO
100	18" RCP	0.007	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
100	18" RCP	IV	48.0	0.007	66.05	65.69

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
100	R-4	5 SY

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
105	1211+39.65	-75.00	519684.3094	558333.5363

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
127	11.75'	66.85

DRAFT

NOT FOR BIDDING

AUGUST 2015

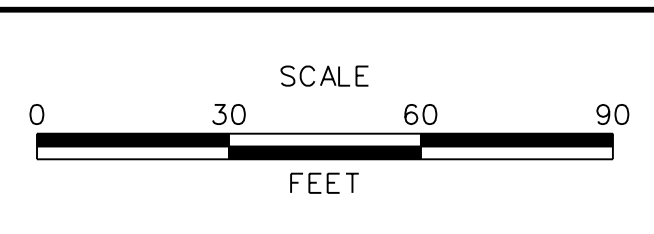


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STATE OF DELAWARE,
DEPARTMENT OF TRANSPORTATION
T.M.*13-026.00-012
INS.*20080912-0061956



ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-31
SHEET NO. 88
TOTAL SHTS. 850

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
106	1218+35.00	-75.00	520356.5994	558511.1371

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
24	24" RCP	V	120.0	0.008	60.45	59.45
25	24" RCP	V	120.0	0.008	60.45	59.45
26	24" RCP	V	120.0	0.008	60.45	59.45
21	30" RCP	IV	260.0	0.005	58.56	57.25
22	30" RCP	IV	297.5	0.005	56.05	54.56

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
524	24" RCP	0.008	NO
24	24" RCP	0.008	NO
525	24" RCP	0.008	NO
25	24" RCP	0.008	NO
526	24" RCP	0.008	NO
26	24" RCP	0.008	NO

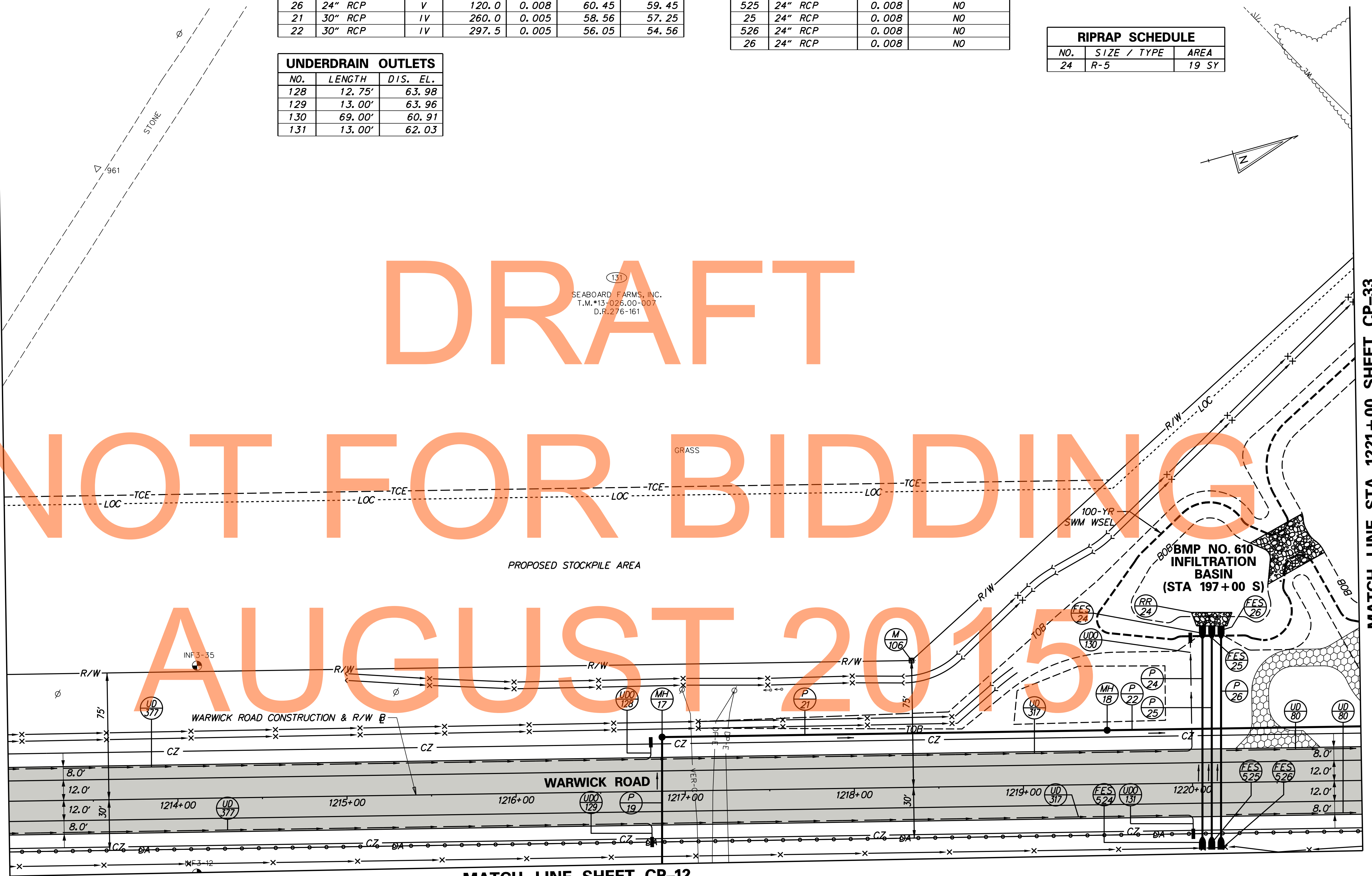
MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
17	1216+86.32	-32.00	48" x 48"	63.77	58.56
18	1219+50.00	-32.00	48" x 30"	63.00	56.05

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
24	R-5	19 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
128	12.75'	63.98
129	13.00'	63.96
130	69.00'	60.91
131	13.00'	62.03

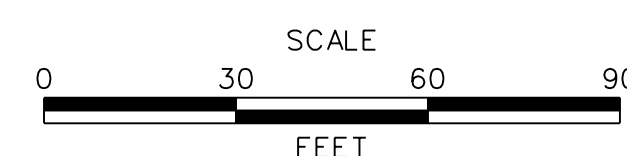
MATCH LINE STA 1213+00 SHEET CP-31

MATCH LINE STA 1221+00 SHEET CP-33



MATCH LINE SHEET CP-12

ADDENDUMS / REVISIONS



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT
T200811301
COUNTY
NEW CASTLE

BRIDGE NO.
DESIGNED BY: MFM
CHECKED BY: SKH

CONSTRUCTION PLAN

CP-32

SHEET NO.
89
TOTAL SHTS.
850

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
109	1227+60.00	-550.00	521372.2398	558288.1468

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
60	R-4	23 SY
61	R-5	42 SY

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
236	12" RCP	0.005	NO

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
132	28.00'	61.09
133	11.25'	61.41
134	28.00'	61.09
135	11.25'	61.41
136	10.75'	63.25
137	13.00'	60.91
138	28.75'	61.32

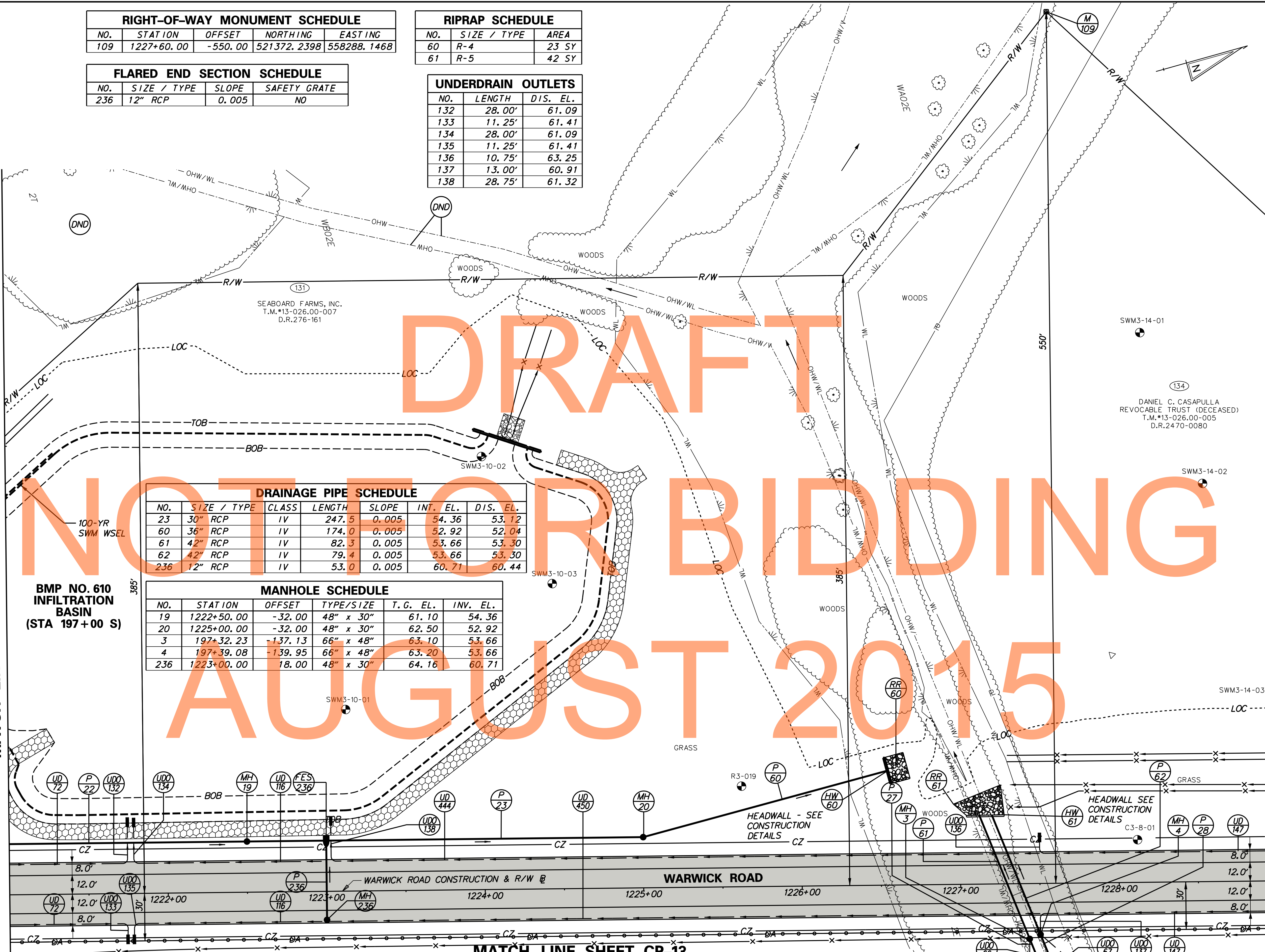
DRAINAGE PIPE SCHEDULE								
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	EL.	EL.
23	30" RCP	IV	247.5	0.005	54.36	53.12		
60	36" RCP	IV	174.0	0.005	52.92	52.04		
61	42" RCP	IV	82.3	0.005	53.66	53.30		
62	42" RCP	IV	79.4	0.005	53.66	53.30		
236	12" RCP	IV	53.0	0.005	60.71	60.44		

MANHOLE SCHEDULE						
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.	
19	1222+50.00	-32.00	48" x 30"	61.10	54.36	
20	1225+00.00	-32.00	48" x 30"	62.50	52.92	
3	197+32.23	-137.13	66" x 48"	63.10	53.66	
4	197+39.08	-139.95	66" x 48"	63.20	53.66	
236	1223+00.00	18.00	48" x 30"	64.16	60.71	

BMP NO. 610
INFILTRATION
BASIN
(STA 197+00 S)

MATCH LINE STA 1221+00 SHEET CP-32

MATCH LINE STA 1229+00 SHEET CP-34



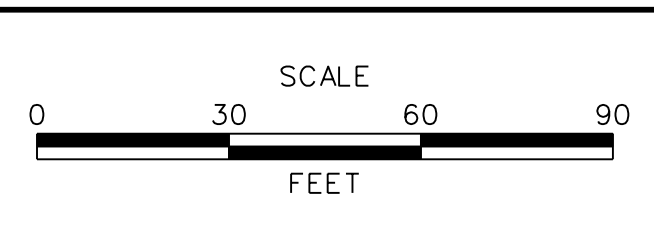
DRAFT
NOT FOR BIDDING
AUGUST 2015

MATCH LINE SHEET CP-13

CP-33



ADDENDUMS / REVISIONS	



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN	SHEET NO.
	90
CONSTRUCTION PLAN	TOTAL SHTS.
	850

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UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
139	11.75'	64.99

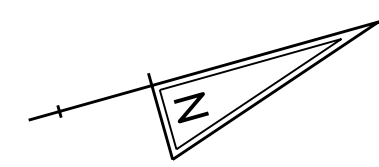
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
111	1229+50.00	-370.00	521509.9640	558510.7047
112	1231+80.00	-340.00	521724.6731	558598.4542
113	1234+80.00	-110.00	521955.9784	558897.4490

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
210	12" RCP	0.005	NO

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
210	12" RCP	IV	56.0	0.005	62.66	62.38

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
210	1232+50.00	18.00	48" x 30"	67.49	62.66

(134)
 DANIEL C. CASAPULLA
 REVOCABLE TRUST (DECEASED)
 T.M.#13-026.00-005
 D.R.2470-0080



MATCH LINE STA 1229+00 SHEET CP-33

MATCH LINE STA 1237+00 SHEET CP-35

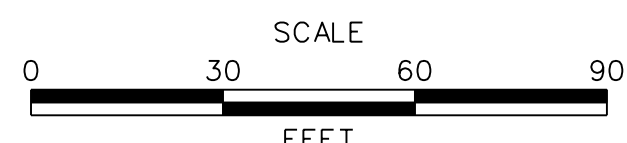


MATCH LINE SHEET CP-14

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ADDENDUMS / REVISIONS



US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD

CONTRACT	BRIDGE NO.
T200811301	
COUNTY	DESIGNED BY: MFM
NEW CASTLE	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-34

SHEET NO.
91
TOTAL SHTS.
850

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
33	19" x 30" HERCP	0.006	NO
34	19" x 30" HERCP	0.006	NO
213	12" RCP	0.005	NO
214	12" RCP	0.005	NO

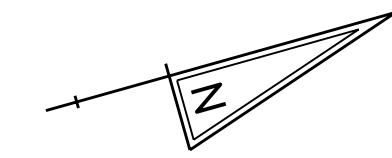
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
33	R-5	46 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
140	11.75'	66.74
142	11.75'	68.49

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
213	12" RCP	IV	53.0	0.005	65.79	65.52
214	12" RCP	IV	53.0	0.005	67.54	67.27

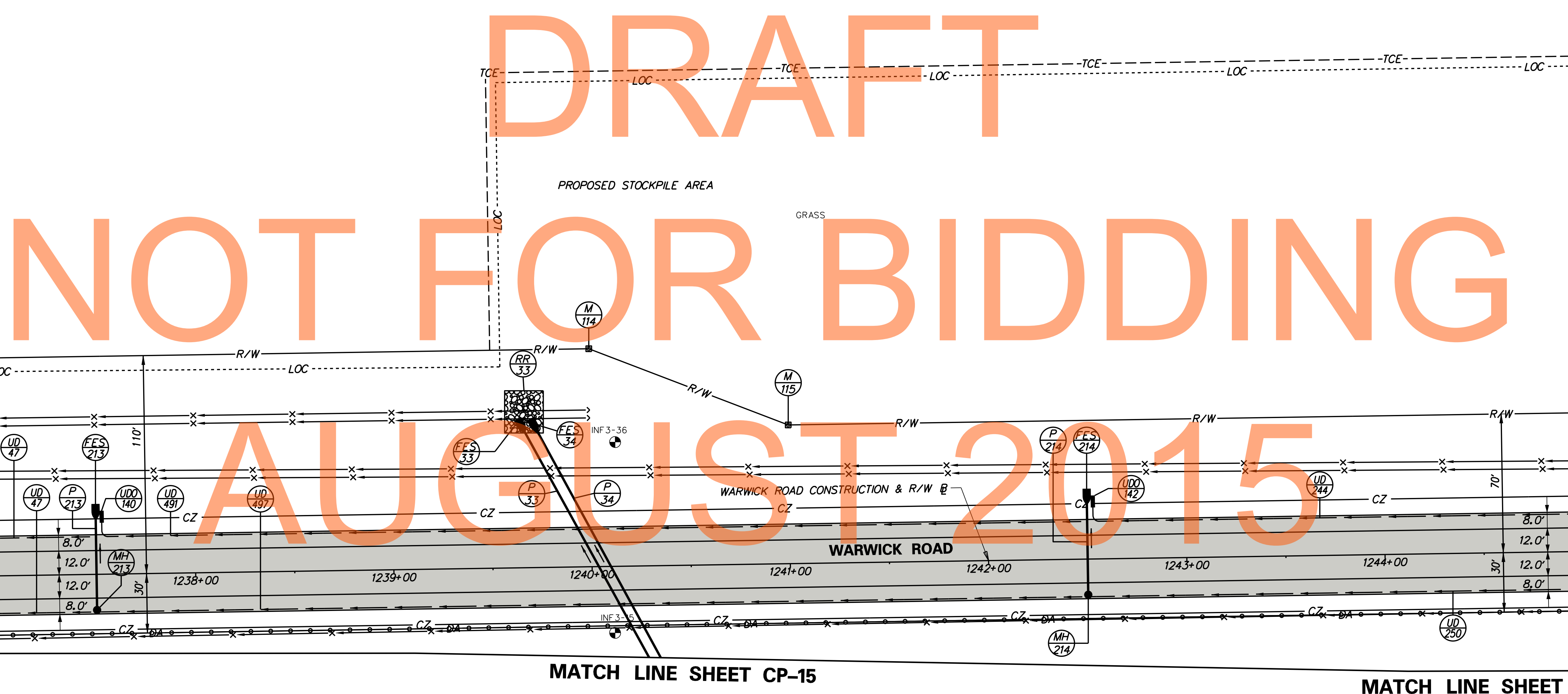
MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
213	1237+50.00	18.00	48" x 30"	69.24	65.79
214	1242+50.00	18.00	48" x 30"	70.99	67.54

134
 DANIEL C. CASAPULLA
 REVOCABLE TRUST (DECEASED)
 T.M.#13-026.00-005
 D.R.2470-0080



MATCH LINE STA 1237+00 SHEET CP-34

MATCH LINE STA 1245+00 SHEET CP-36



RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
114	1240+00.00	-110.0000	522458.7313	559030.2627
115	1241+00.00	-70.0000	522545.1981	559094.4772

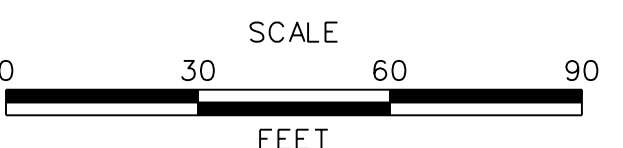
MATCH LINE SHEET CP-15

MATCH LINE SHEET CP-16

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ADDENDUMS / REVISIONS	



US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-35	SHEET NO. 92
	TOTAL SHTS. 850

ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
PC3-19	31+65.47	-12.91	4" HMA OVER 1" ST

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
116	1246+59.01	-70.00	523085.6691	559237.2550
125	1247+80.00	-70.00	523203.6858	559269.7081
126	31+10.00	-25.00	523267.6447	559245.9797
127	32+00.00	-25.00	523325.9876	559177.4516
128	32+50.00	-12.92	523367.5996	559147.2124
130	32+50.00	17.08	523390.4423	559166.6600
131	32+50.00	27.08	523398.0565	559173.1426
132	32+00.00	27.08	523365.6465	559211.2161
133	31+15.51	89.90	523358.7067	559316.2675

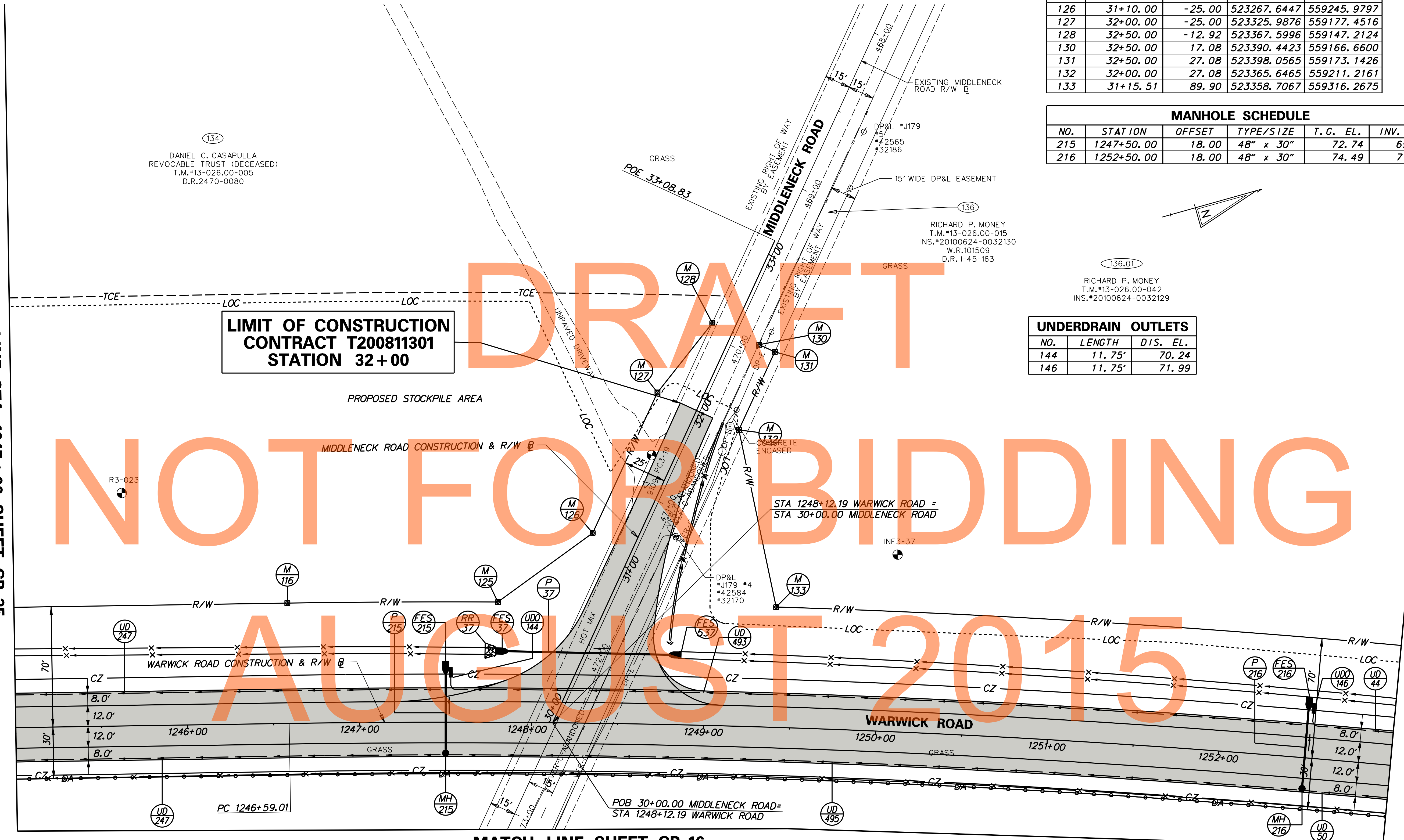
MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T. G. EL.	INV. EL.
215	1247+50.00	18.00	48" x 30"	72.74	69.29
216	1252+50.00	18.00	48" x 30"	74.49	71.04

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
144	11.75'	70.24
146	11.75'	71.99

134
DANIEL C. CASAPULLA
REVOCABLE TRUST (DECEASED)
T.M.*13-026.00-005
D.R.2470-0080

136
RICHARD P. MONEY
T.M.*13-026.00-015
INS.*20100624-0032130
W.R.101509
D.R.1-45-163

136.01
RICHARD P. MONEY
T.M.*13-026.00-042
INS.*20100624-0032129



MATCH LINE SHEET CP-16

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
37	18" RCP	IV	96.0	0.006	68.36	67.74
215	12" RCP	IV	53.0	0.005	69.29	69.02
216	12" RCP	IV	53.0	0.005	71.04	70.77

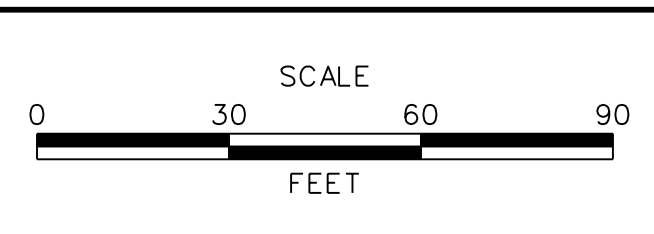
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
537	18" RCP	0.006	NO
37	18" RCP	0.006	NO
215	12" RCP	0.005	NO
216	12" RCP	0.005	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
37	R-4	5 SY

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ADDENDUMS / REVISIONS	



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-36	SHEET NO. 93
	TOTAL SHTS. 850

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
148	13.00'	71.78

136.01
 RICHARD P. MONEY
 T.M.*13-026.00-042
 INS.*20100624-0032129

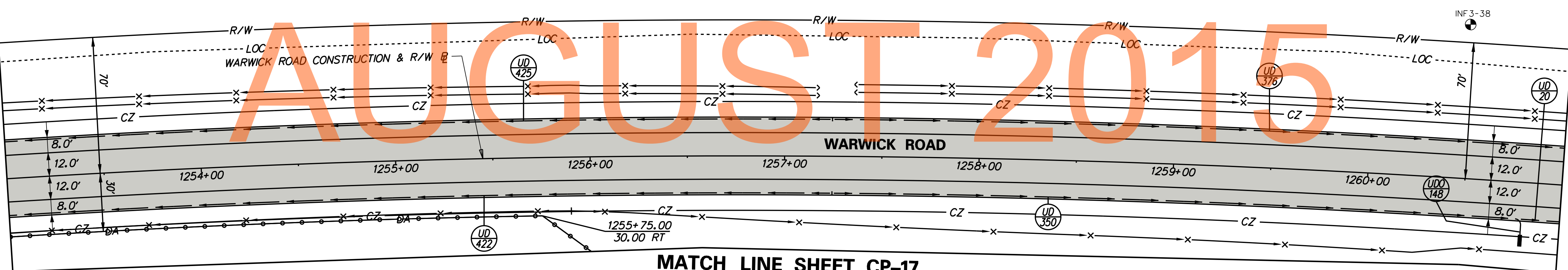
GRASS

DRAFT
 NOT FOR BIDDING

AUGUST 2015

MATCH LINE STA 1253+00 SHEET CP-36

MATCH LINE STA 1261+00 SHEET CP-38

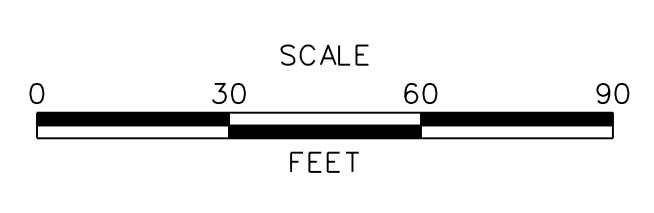


MATCH LINE SHEET CP-17

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ADDENDUMS / REVISIONS	



**US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-37	
SHEET NO.	94
TOTAL SHTS.	850

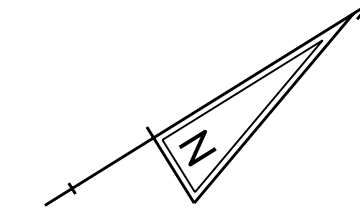
RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
117	1264+38.78	-70.0000	524733.3563	559946.7144

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
38	18" RCP	IV	40.0	0.006	70.10	69.88

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
538	18" RCP	0.006	NO
38	18" RCP	0.006	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
38	R-4	5 SY

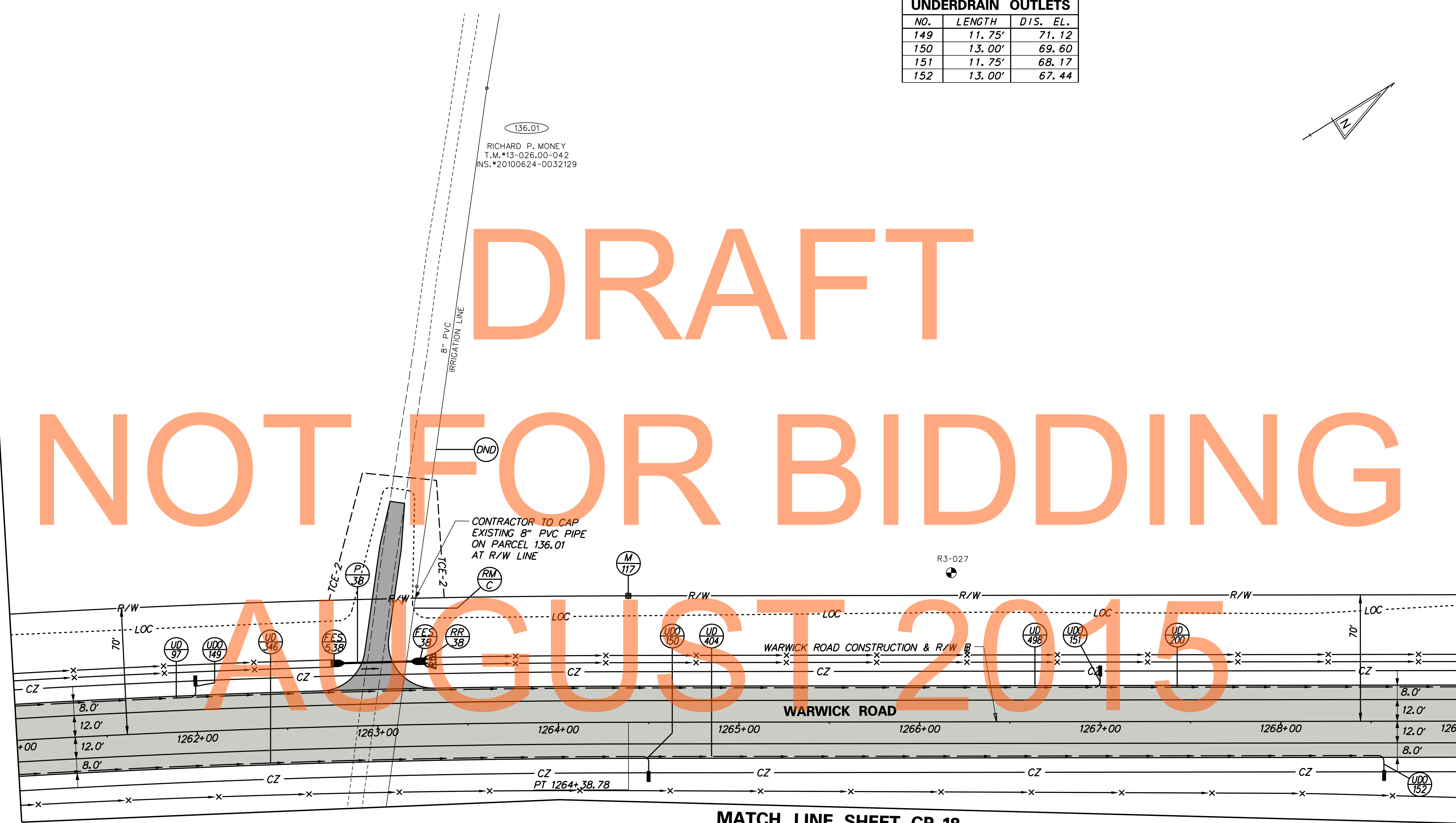
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
149	11.75'	71.12
150	13.00'	69.60
151	11.75'	68.17
152	13.00'	67.44



DRAFT
NOT FOR BIDDING
AUGUST 2015

MATCH LINE STA 1261+00 SHEET CP-37

MATCH LINE STA 1269+00 SHEET CP-39

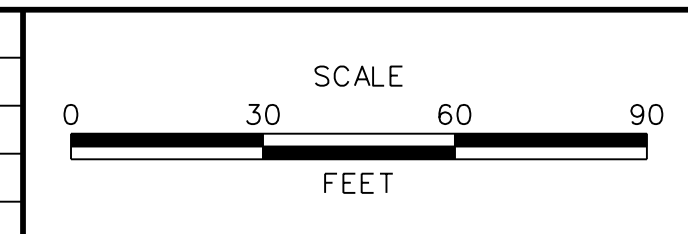


MATCH LINE SHEET CP-18

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ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-38	
SHEET NO.	95
TOTAL SHTS.	850

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
49	18" RCP	IV	104.0	0.011	61.76	60.64
50	18" RCP	IV	104.0	0.011	61.76	60.64
45	60" RCP	IV	292.0	0.003	55.18	54.30
46	60" RCP	IV	188.0	0.003	54.10	53.54

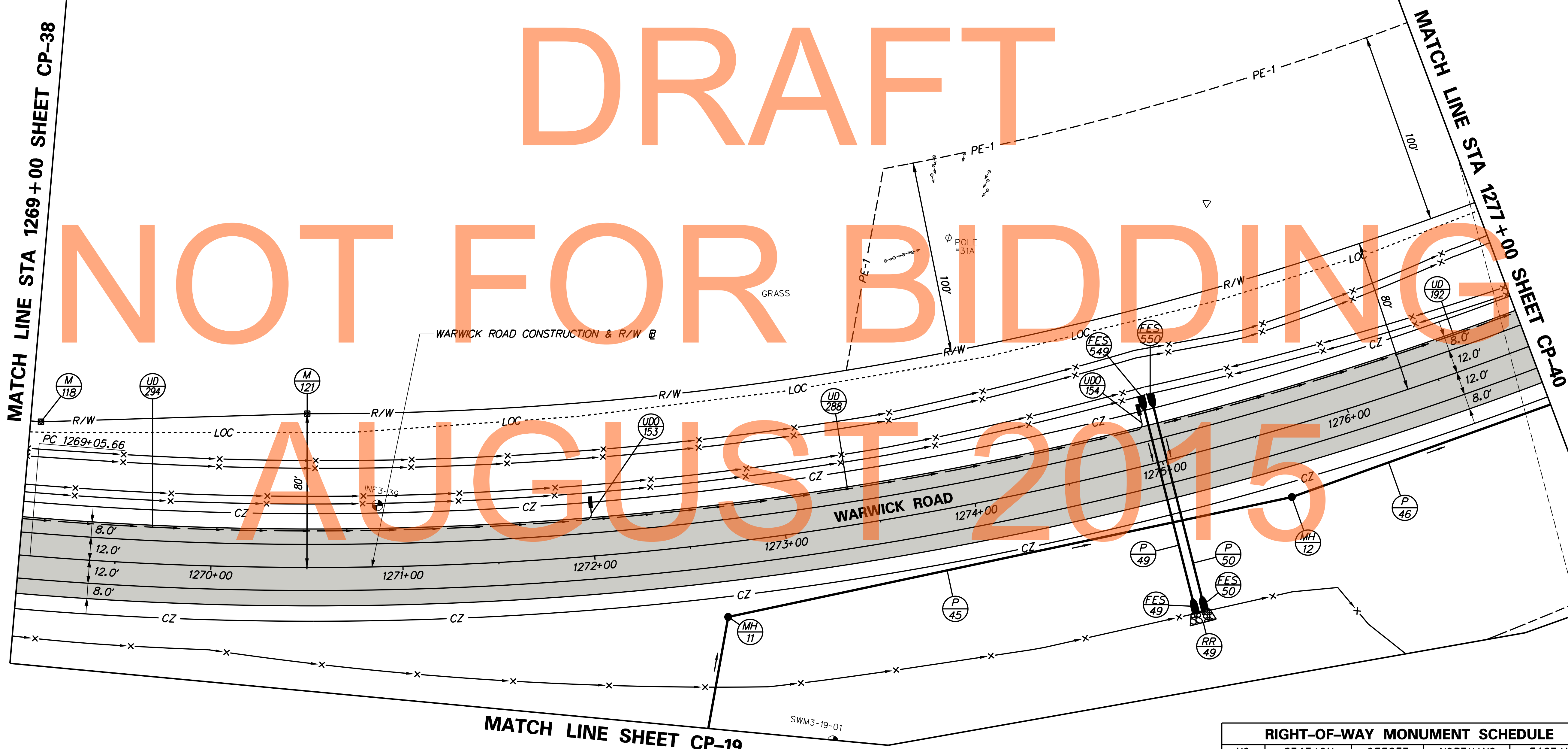
FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
549	18" RCP	0.011	NO
49	18" RCP	0.011	NO
550	18" RCP	0.011	NO
50	18" RCP	0.011	NO

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
11	241+90.00	-219.07	SEE DETAIL	65.95	55.18
12	1275+60.00	35.57	SEE DETAIL	64.70	54.10

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
153	11.75'	65.04
154	12.75'	63.28

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
49	R-4	8 SY

136.01
 RICHARD P. MONEY
 T.M.#13-026.00-042
 INS.#20100624-0032129

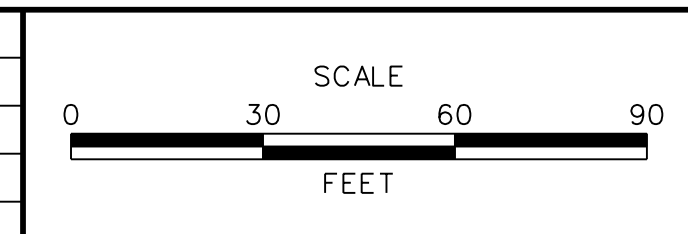


RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
118	1269+05.66	-70.0000	525130.1730	560192.6884
121	1270+50.00	-80.0000	525255.4690	560252.0871

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DELAWARE
 DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

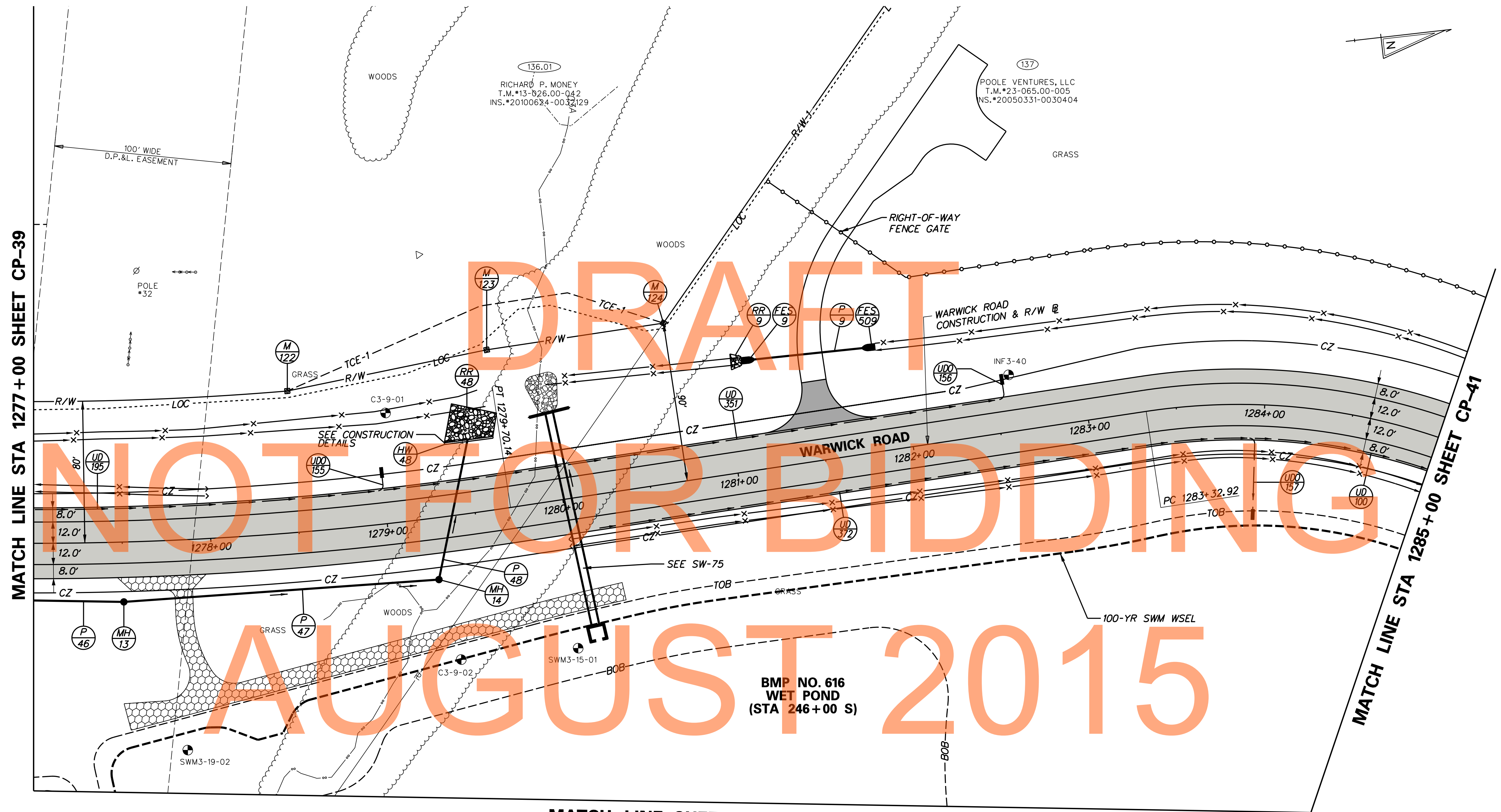


US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-39
SHEET NO. 96
TOTAL SHTS. 850



MATCH LINE STA 1277+00 SHEET CP-39

MATCH LINE STA 1285+00 SHEET CP-41

MATCH LINE SHEET CP-22

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
122	1278+50.00	-80.00	525989.5986	560441.4883
123	1279+70.14	-90.00	526104.0124	560431.1384
124	1280+71.02	-90.00	526204.8258	560427.4593

UNDERDRAIN OUTLETS			
NO.	LENGTH	DIS.	EL.
155	12.75'	60.89	
156	13.00'	59.19	
157	45.00'	56.87	

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.	
47	60" RCP	IV	172.4	0.002	53.34	52.96	
48	60" RCP	IV	76.6	0.003	52.76	52.50	
9	18" RCP	IV	64.0	0.006	53.33	52.88	

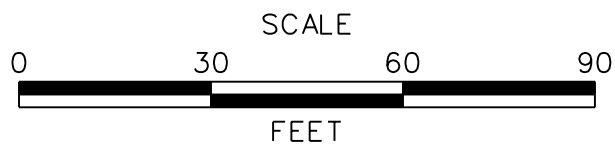
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
48	R-4	52 SY
9	R-4	5 SY

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
509	18" RCP	0.006	NO
9	18" RCP	0.006	NO

MANHOLE SCHEDULE					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
13	1277+50.00	33.78	SEE DETAIL	63.60	53.34
14	1279+25.00	34.78	SEE DETAIL	62.30	52.76



ADDENDUMS / REVISIONS



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-40	
SHEET NO.	97
TOTAL SHTS.	850

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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
27	P. C. C. CURB, TYPE 2	58.13

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
290	14" x 23" HERCP	IV	58.8	0.005	56.75	56.45

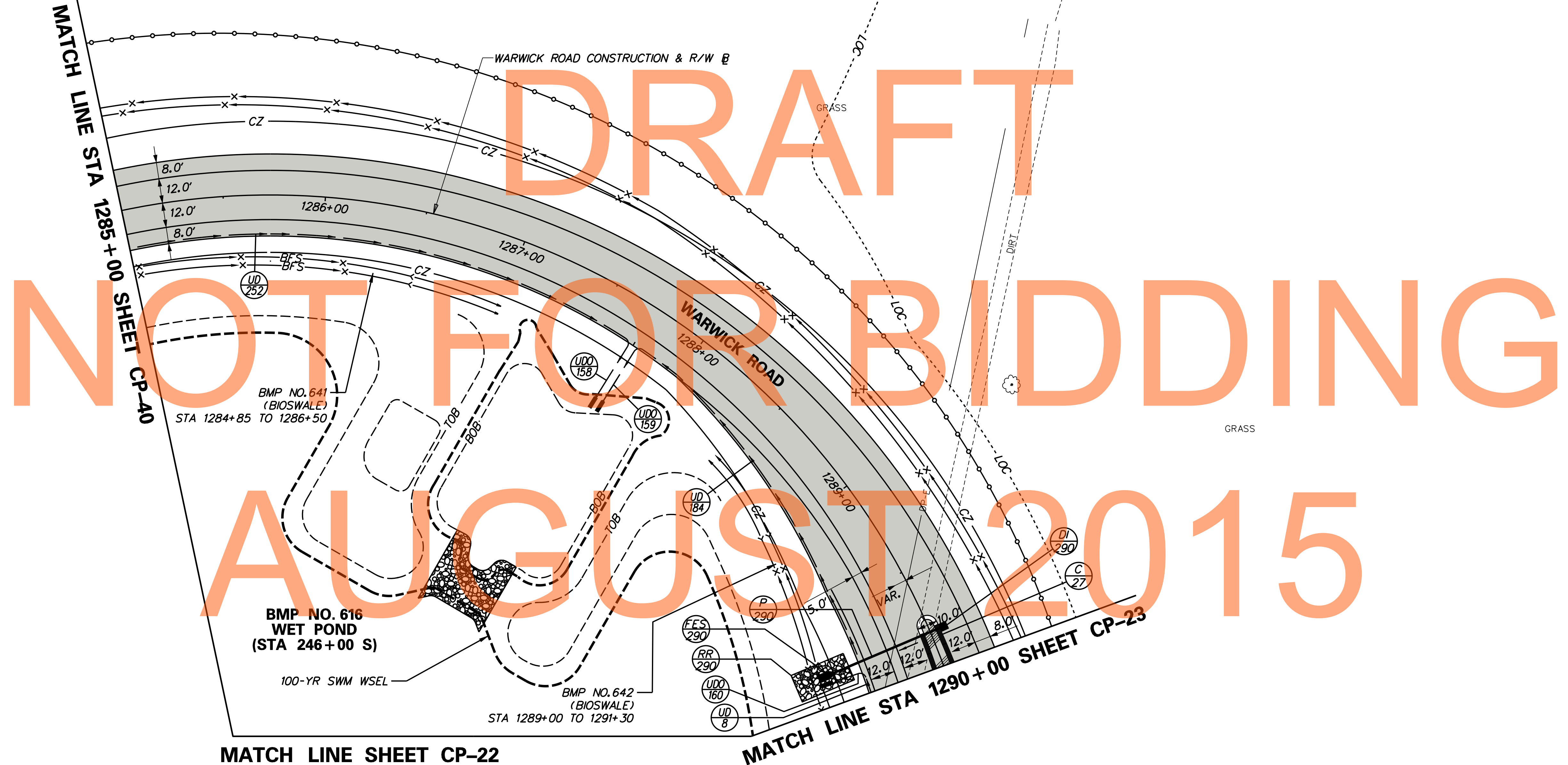
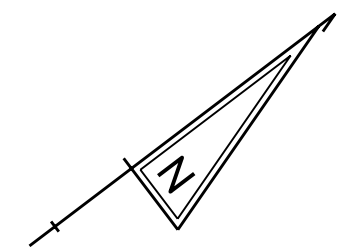
DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
290	1289+82.22	-7.00	34" x 24"	1	62.57	56.75

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
290	14" x 23" HERCP	0.005	NO

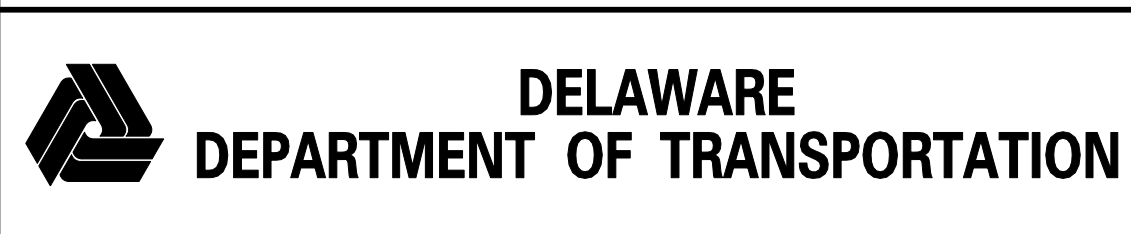
RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
290	R-4	43 SY

UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
158	37.00'	55.32
159	37.00'	55.32
160	21.00'	56.89

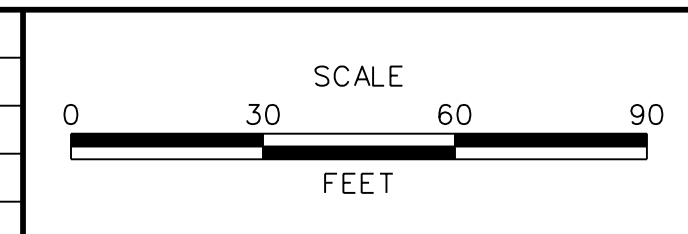
(137)
 POOLE VENTURES, LLC
 T.M.*23-065.00-005
 INS.*20050331-0030404



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ADDENDUMS / REVISIONS	



**US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MFM
	CHECKED BY: SKH

CONSTRUCTION PLAN

CP-41	
SHEET NO.	98
TOTAL SHTS.	850

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
28	P. C. C. CURB AND GUTTER, TYPE 3-8	817.36'
29	P. C. C. CURB AND GUTTER, TYPE 3-8	782.66'
30	P. C. C. CURB, TYPE 2	804.00'
31	P. C. C. CURB, TYPE 2	796.00'

RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
135	1304+39.65	-110.00	526052.2659	562184.3903
136	1305+50.00	-60.00	525940.1076	562242.8399
137	1304+39.65	90.00	525893.0156	562063.3971
138	1305+50.00	80.00	525834.7339	562150.6641

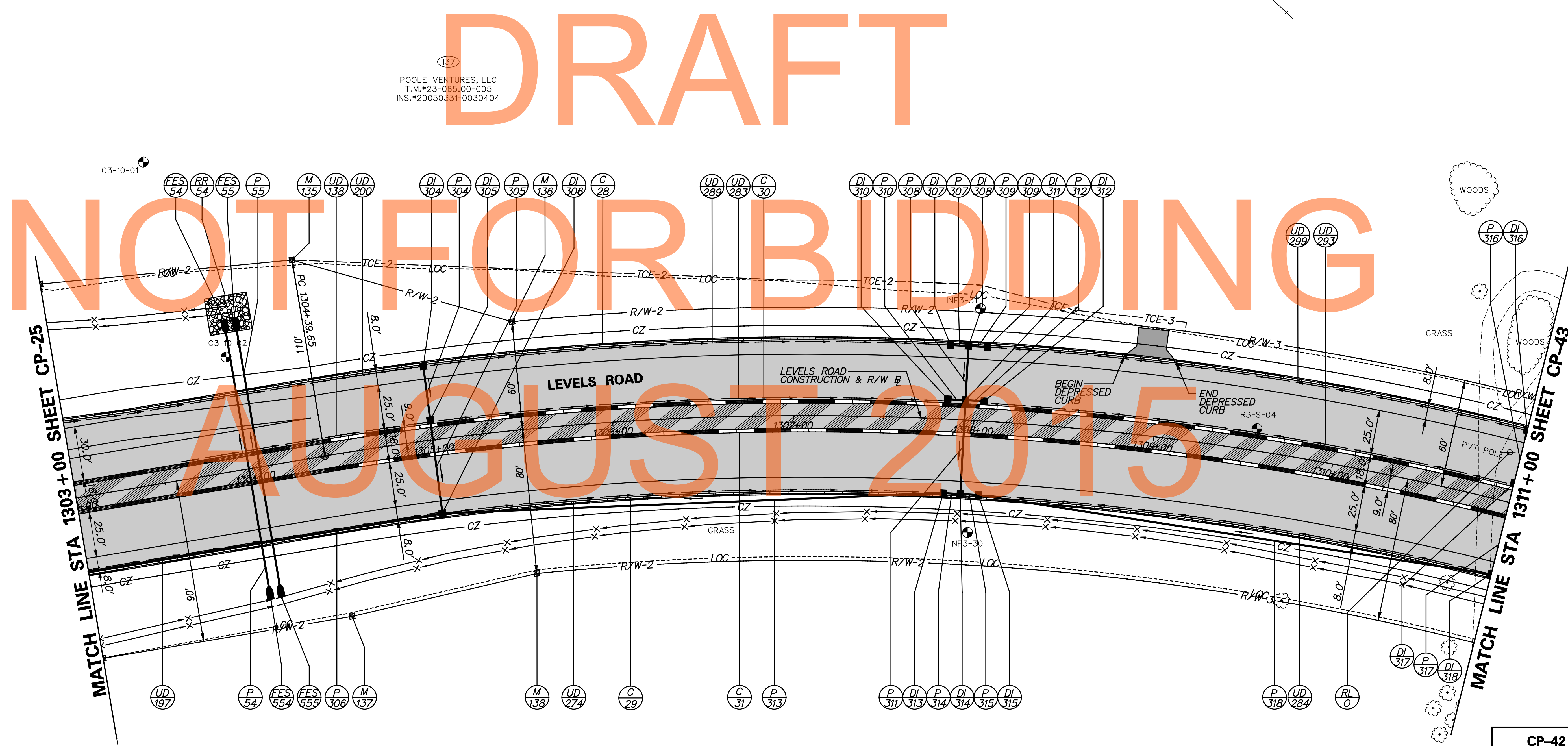
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
54	30" RCP	IV	144.0	0.020	53.40	50.56
55	30" RCP	IV	144.0	0.020	53.40	50.56
304	18" RCP	IV	28.0	0.005	49.94	49.80
305	18" RCP	IV	49.0	0.005	49.60	49.35
307	18" RCP	IV	6.8	0.004	50.93	50.90
308	18" RCP	IV	27.5	0.005	50.70	50.56
309	18" RCP	IV	6.8	0.004	50.93	50.90
310	18" RCP	IV	6.8	0.004	50.59	50.56
311	18" RCP	IV	49.5	0.005	50.36	50.11
312	18" RCP	IV	6.8	0.004	50.59	50.56
313	36" RCP	IV	273.3	0.002	49.32	48.78
314	36" RCP	IV	6.0	0.002	49.33	49.32
315	30" RCP	IV	6.0	0.002	49.84	49.83
316	18" RCP	IV	28.0	0.005	52.52	52.38
317	18" RCP	IV	49.0	0.005	52.18	51.93
318	30" RCP	IV	283.0	0.003	50.99	50.14

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
304	1305+00.00	-41.00	34" X 24"	4	60.46	49.94
305	1305+00.00	-11.00	34" X 24"	4	59.83	49.60
306	1305+00.00	41.00	66" X 48"	4	57.88	48.78
307	1307+85.00	-41.00	48" X 30"	4	57.60	50.93
308	1307+94.67	-41.00	48" X 30"	4	57.53	50.70
309	1308+05.00	-41.00	48" X 30"	4	57.60	50.93
310	1307+85.00	-11.00	48" X 30"	4	57.00	50.59
311	1307+94.67	-11.00	48" X 30"	4	56.92	50.36
312	1308+05.00	-11.00	48" X 30"	4	57.00	50.59
313	1307+85.00	41.00	66" X 48"	4	55.00	49.32
314	1307+94.67	41.00	66" X 48"	4	54.95	49.33
315	1308+05.00	41.00	48" X 48"	4	55.00	49.84
316	1311+00.00	-41.00	34" X 24"	4	60.45	52.52
317	1311+00.00	-11.00	34" X 24"	4	59.99	52.18
318	1311+00.00	41.00	72" X 48"	4	58.33	50.99

FLARED END SECTION SCHEDULE			
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE
54	30" RCP	0.020	NO
55	30" RCP	0.020	NO
554	30" RCP	0.020	NO
555	30" RCP	0.020	NO

RIPRAP SCHEDULE		
NO.	SIZE / TYPE	AREA
54	R-4	54 SY

NOTE:
BETWEEN STATIONS 1307+25 AND 1308+75
REFER TO TYPICAL SECTIONS AND CROSS
SECTIONS FOR PLACEMENT OF UNDERDRAIN.

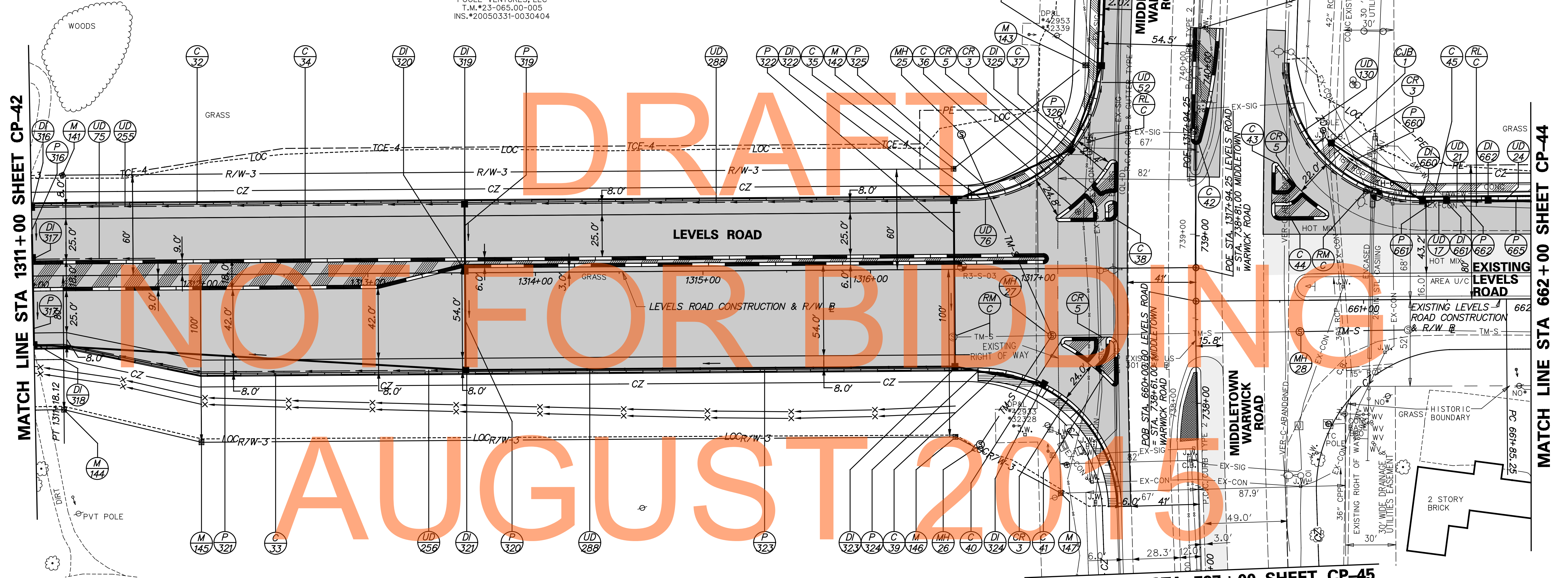


POOLE VENTURES, LLC
T.M.#23-065,00-005
INS.#20050331-0030404

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
32	P.C.C. CURB AND GUTTER, TYPE 3-8	559.18'
33	P.C.C. CURB AND GUTTER, TYPE 3-8	564.83'
34	P.C.C. CURB, TYPE 2	1217.31'
35	P.C.C. CURB AND GUTTER, TYPE 1-4	225.85'
36	P.C.C. CURB, TYPE 2	66.99'
37	P.C.C. CURB, TYPE 2	59.19'
38	P.C.C. CURB, TYPE 2	33.62'
39	P.C.C. CURB AND GUTTER, TYPE 1-4	131.60'
40	P.C.C. CURB, TYPE 2	60.15'
41	P.C.C. CURB, TYPE 2	70.23'
42	P.C.C. CURB, TYPE 2	143.37'
43	P.C.C. CURB, TYPE 2	53.81'
44	P.C.C. CURB, TYPE 2	84.39'
45	P.C.C. CURB AND GUTTER, TYPE 1-4	194.80'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
319	1313+58.00	-41.00	34" x 24"	4	65.18	59.12
320	1313+58.00	-1.00	72" x 24"	4	66.13	58.73
321	1313+58.00	58.00	48" x 48"	4	65.20	52.25
322	1316+50.00	-41.00	48" x 48"	4	70.97	54.10
323	1316+50.00	58.00	48" x 48"	4	70.94	53.31
324	1317+03.16	68.68	48" x 48"	4	70.76	65.56
325	1317+20.08	-70.68	48" x 48"	4	69.17	54.52
326	740+00.00	-58.00	48" x 48"	4	68.68	55.10
660	661+35.60	-59.00	48" x 48"	4	65.70	61.03
661	661+50.00	-59.00	48" x 48"	4	65.57	61.28
662	661+74.80	-59.00	48" x 48"	4	65.70	61.38

CONVERT TO JUNCTION BOX SCHEDULE				
NO.	STATION	OFFSET	T.G. EL.	INV. EL.
1	660+81.44	-93.81	66.52	59.61



RIGHT-OF-WAY MONUMENT SCHEDULE				
NO.	STATION	OFFSET	NORTHING	EASTING
141	1311+18.12	-60.00	525483.1995	562609.0389
142	1316+50.00	-60.00	525014.6734	562862.6526
143	740+00.00	-67.65	524974.3564	562954.1734
144	1311+18.12	80.00	525415.4445	562485.9789
145	1312+00.00	100.00	525333.9320	562507.4429
146	1316+50.00	100.00	524938.3819	562722.0126
147	737+48.76	-82.52	524867.1341	562722.0197

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
319	18" RCP	IV	38.0	0.005	59.12	58.93
320	18" RCP	IV	56.0	0.005	58.73	58.45
321	24" RCP	IV	254.1	0.003	52.25	51.49
322	18" RCP	IV	95.0	0.003	54.10	53.81
323	24" RCP	IV	288.0	0.003	53.31	52.45
324	18" RCP	IV	50.1	0.005	65.56	65.31
325	18" RCP	IV	71.7	0.003	54.52	54.30
326	18" RCP	IV	51.6	0.002	55.10	55.00
327	18" RCP	IV	158.7	0.002	55.39	55.10
660	18" RCP	IV	62.0	0.009	61.03	60.50
661	18" RCP	IV	10.4	0.005	61.28	61.23
662	18" RCP	IV	20.8	0.005	61.38	61.28
665	18" RCP	IV	275.6	0.005	62.96	61.58

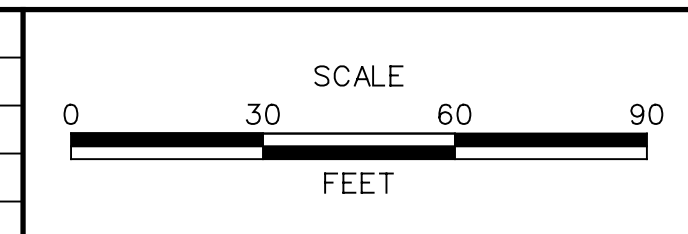
MANHOLE SCHEDULE*					
NO.	STATION	OFFSET	TYPE/SIZE	T.G. EL.	INV. EL.
25	1316+54.90	-80.40	48" x 48"	68.35	58.59
26	1316+64.87	104.65	48" x 48"	68.71	58.32
27	1317+07.97	39.92	48" x 48"	71.13	57.85
28	660+61.93	18.63	48" x 48"	68.33	57.48

*SEE SHEETS DT-25 AND DT-26 FOR TOWN OF MIDDLETOWN SEWER DETAILS

NOTE:
PLACE TYPE 6 SOIL RETENTION BLANKET MULCH,
AT THE END OF ALL CURBS TO TOE OF SLOPE
TO ACCOUNT FOR CONCENTRATED RUNOFF.



ADDENDUMS / REVISIONS



US 301
MARYLAND STATE LINE
TO LEVELS ROAD

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MAG/TAM
	CHECKED BY: PAH

CONSTRUCTION PLAN		SHEET NO. 100
		TOTAL SHTS. 850

CP-43

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
46	P. C. C. CURB AND GUTTER, TYPE 1-4	392.94'
47	P. C. C. CURB, TYPE 2	295.47'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
665	664+50.00	-110.00	48" x 48"	4	67.30	62.96
666	666+38.03	-68.49	48" x 48"	1	68.30	63.90

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
666	18" RCP	IV	148.60'	0.005	63.90	63.16

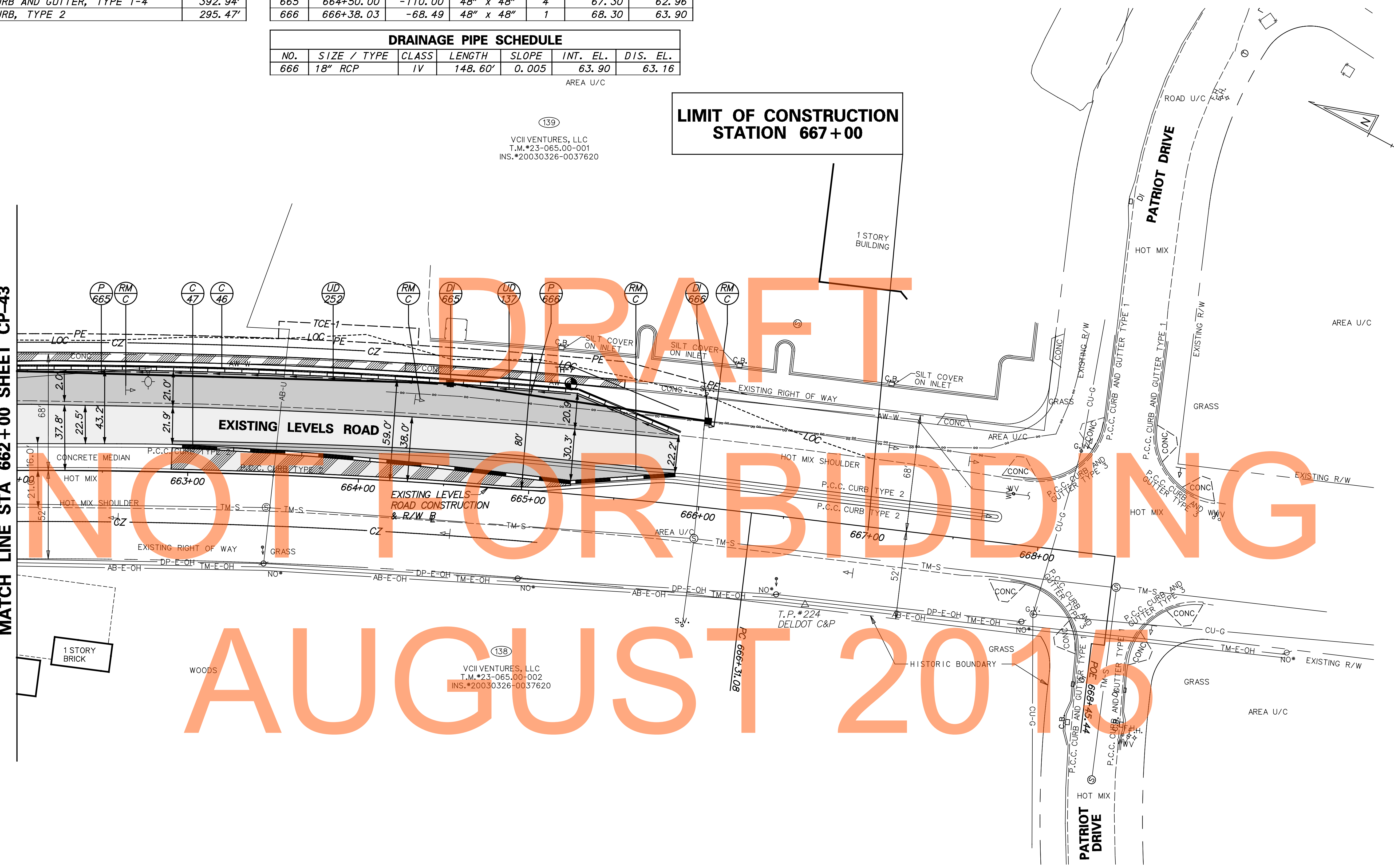
AREA U/C

**LIMIT OF CONSTRUCTION
STATION 667+00**

139
VCII VENTURES, LLC
T.M.#23-065.00-001
INS.#20030326-0037620

138
VCII VENTURES, LLC
T.M.#23-065.00-002
INS.#20030326-0037620

MATCH LINE STA 662+00 SHEET CP-43



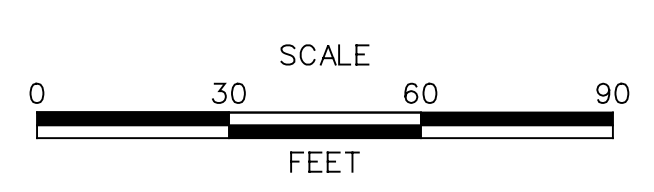
DRAFT
NOT FOR BIDDING
AUGUST 2015

NOTE:
PLACE TYPE 6 SOIL RETENTION BLANKET MULCH,
AT THE END OF ALL CURBS TO TOE OF SLOPE
TO ACCOUNT FOR CONCENTRATED RUNOFF.

CP-44



ADDENDUMS / REVISIONS	



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MAG/TAM
	CHECKED BY: PAH

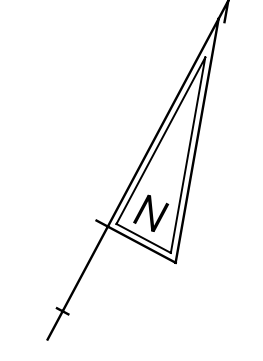
CONSTRUCTION PLAN

SHEET NO. 101
TOTAL SHTS. 850

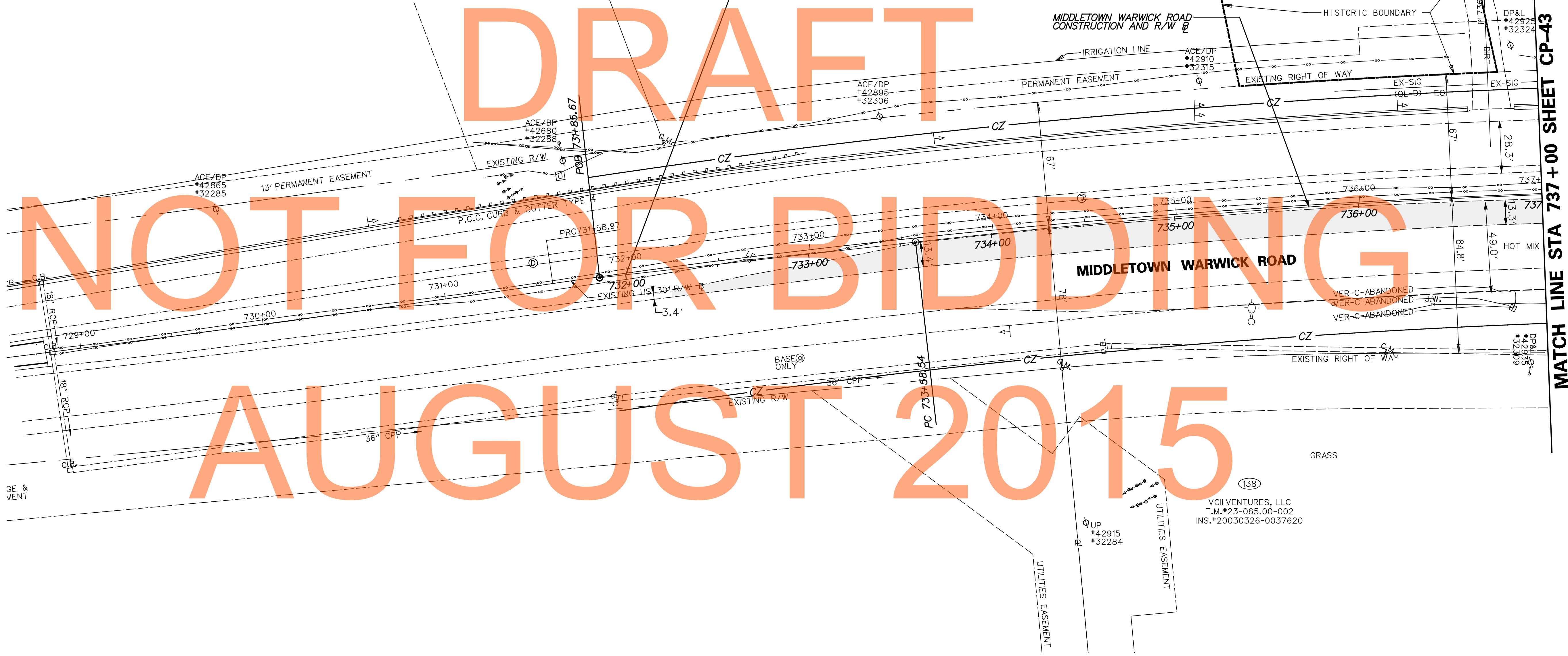
136
 RICHARD P. MONEY
 T.M.#23-065.00-010
 INS.#20100624-0032130
 W.R.101509
 D.R.1-45-163
 M.F.#20100826-0044435

137
 POOLE VENTURES, LLC
 T.M.#23-065.00-005
 INS.#20050331-0030404

WOODS
 WOODS
 GRASS



**LIMIT OF CONSTRUCTION
 STATION 732+00**



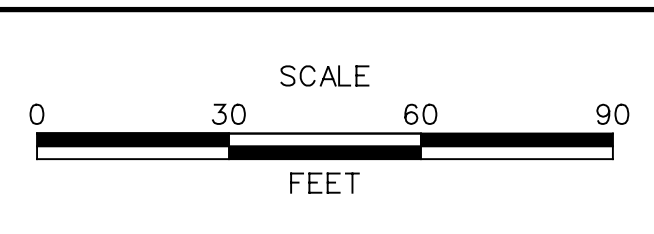
DRAFT
 NOT FOR BIDDING
 AUGUST 2015

MATCH LINE STA 737+00 SHEET CP-43

138
 VCII VENTURES, LLC
 T.M.#23-065.00-002
 INS.#20030326-0037620



ADDENDUMS / REVISIONS	



**US 301
 MARYLAND STATE LINE
 TO LEVELS ROAD**

CONTRACT T200811301	BRIDGE NO.
COUNTY NEW CASTLE	DESIGNED BY: MAG/TAM
	CHECKED BY: PAH

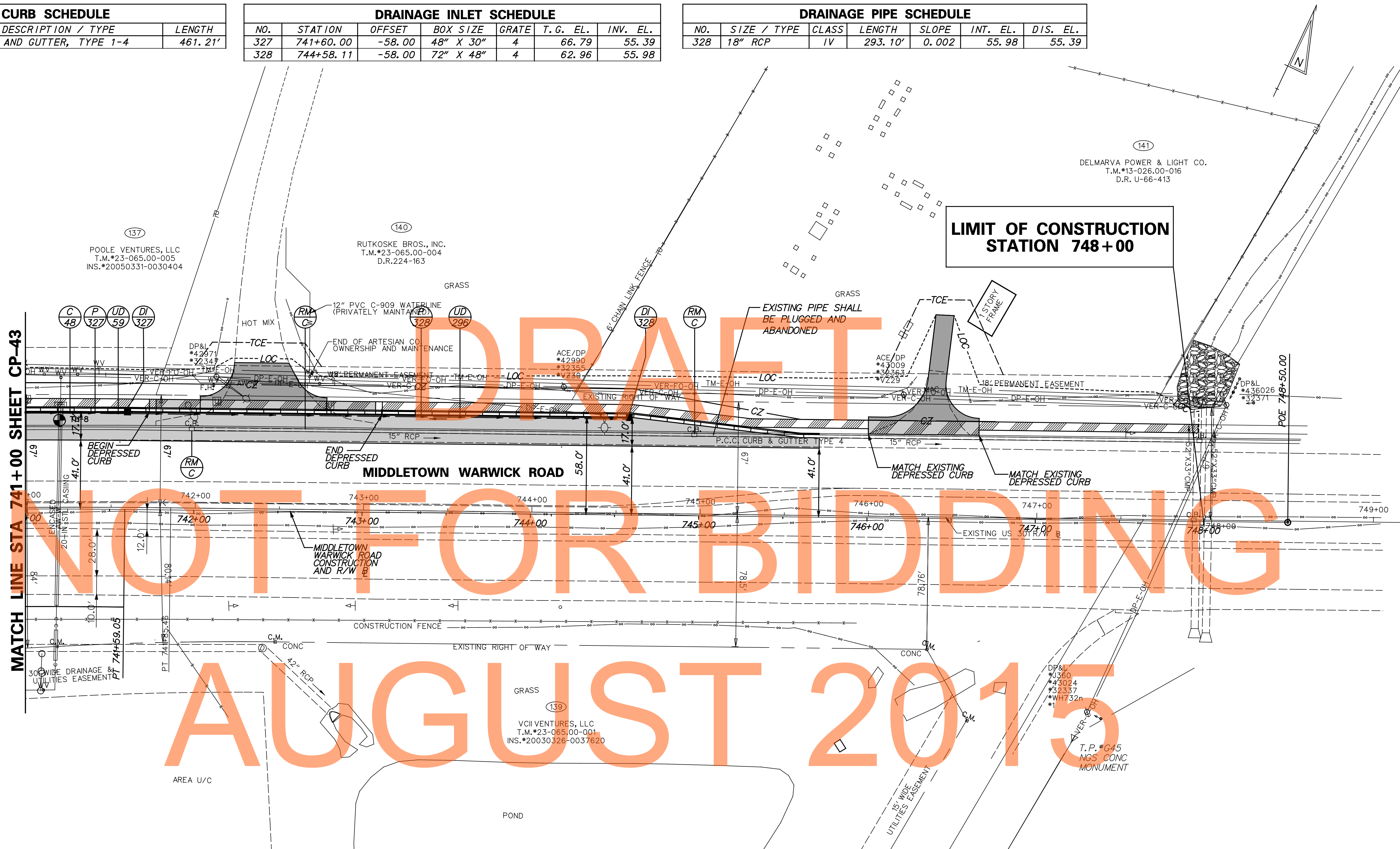
CONSTRUCTION PLAN

CP-45
SHEET NO. 102
TOTAL SHTS. 850

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
48	P. C. C. CURB AND GUTTER, TYPE 1-4	461.21'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
327	741+60.00	-58.00	48" X 30"	4	66.79	55.39
328	744+58.11	-58.00	72" X 48"	4	62.96	55.98

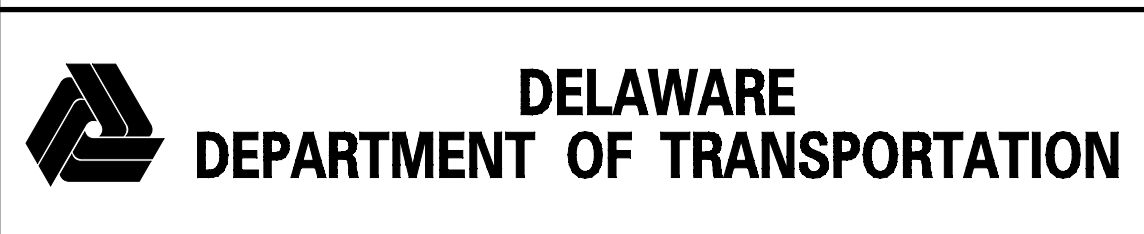
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
328	18" RCP	IV	293.10'	0.002	55.98	55.39



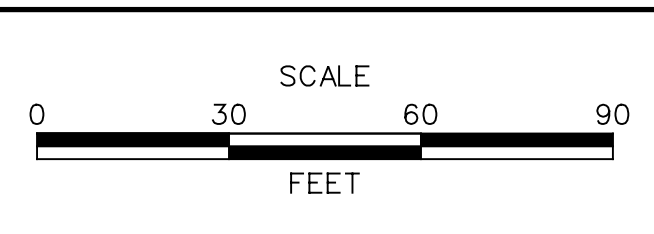
MATCH LINE STA 741+00 SHEET CP-43

NOTE:
PLACE TYPE 6 SOIL RETENTION BLANKET MULCH,
AT THE END OF ALL CURBS TO TOE OF SLOPE
TO ACCOUNT FOR CONCENTRATED RUNOFF.

CP-46	
SHEET NO.	103
TOTAL SHTS.	850



ADDENDUMS / REVISIONS



**US 301
MARYLAND STATE LINE
TO LEVELS ROAD**

CONTRACT	BRIDGE NO.
T200811301	
COUNTY	DESIGNED BY: MAG/TAM
NEW CASTLE	CHECKED BY: PAH

CONSTRUCTION PLAN