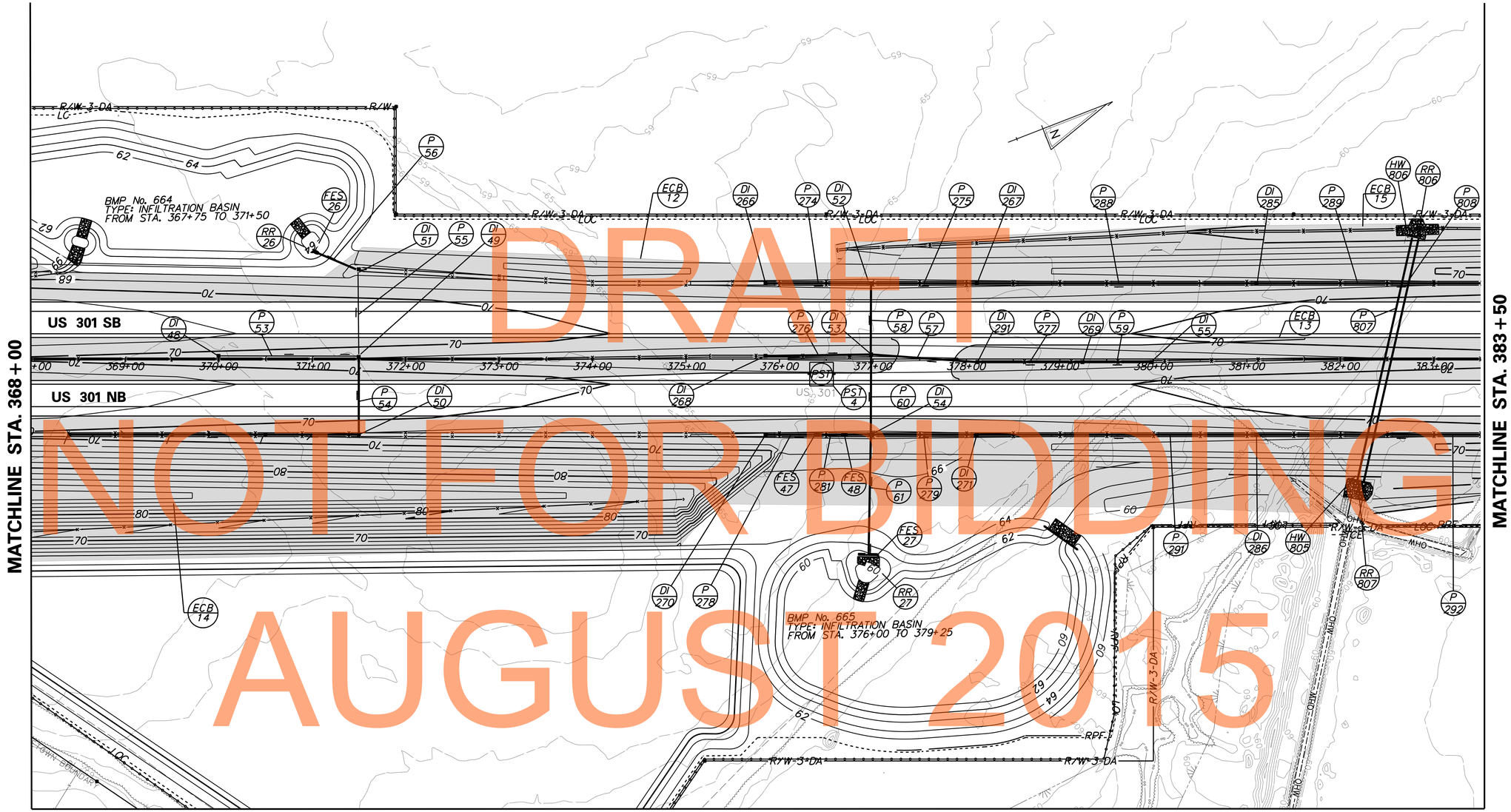
| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 12 | 9300 | 1483 LF | 83 LF | 5 |
| 13 | 3573 | 1550 LF | 23 LF | 5 |
| 15 | 5026 | 60 LF | 85 LF | 6 |




DRAFT
NOT FOR BIDDING
AUGUST 2015

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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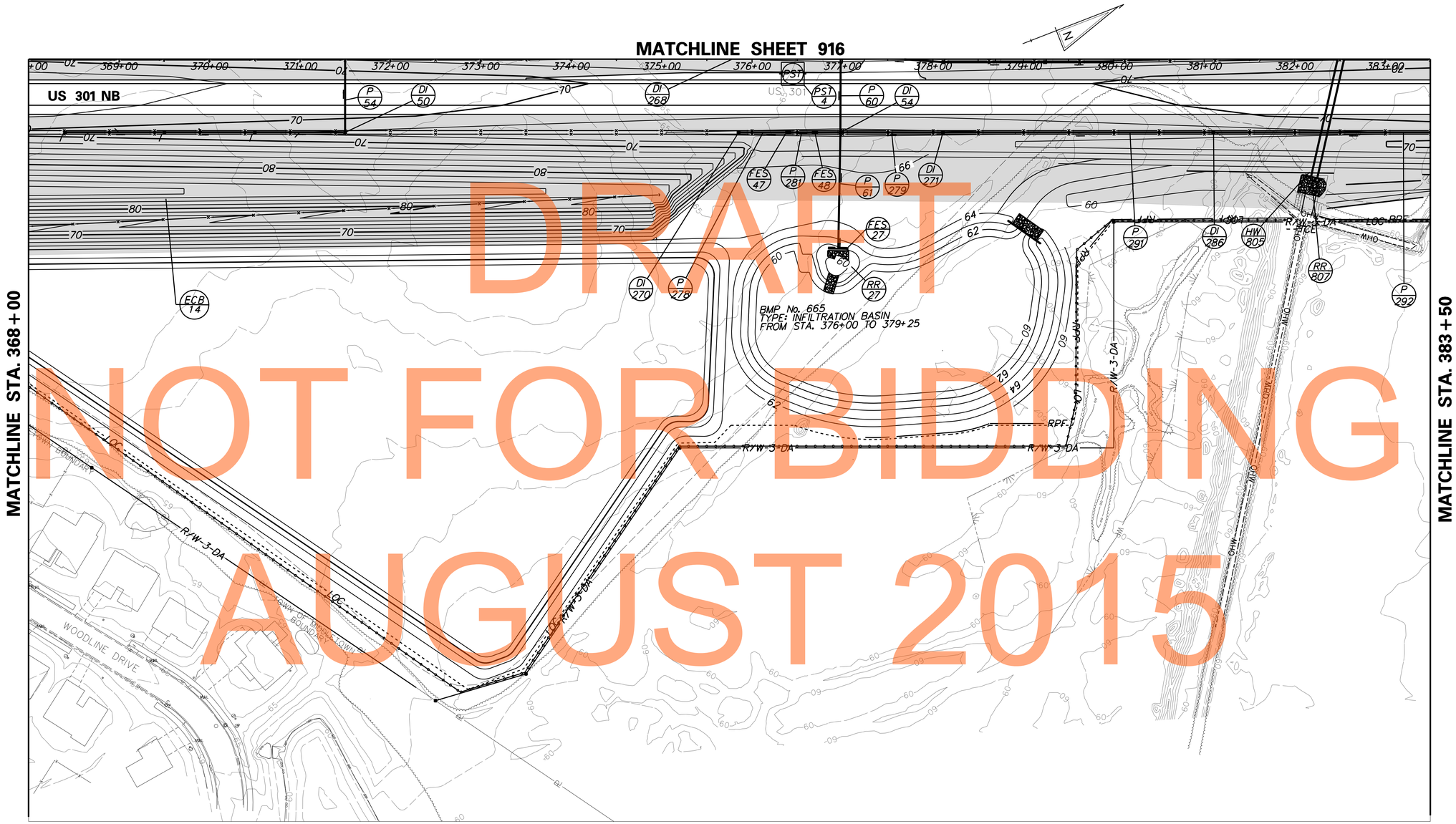
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3 | CS-55 |
|---|---|---|---|---|---|---|---|
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 916 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 3544 | 1550 LF | 23 LF | 5 |
| 14 | 20303 | 1550 LF | 189 LF | 5 |

| PORTABLE SEDIMENT TANK | |
|---|---|
| NO. | STATION |
| 4 | 376+45, RT |




NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

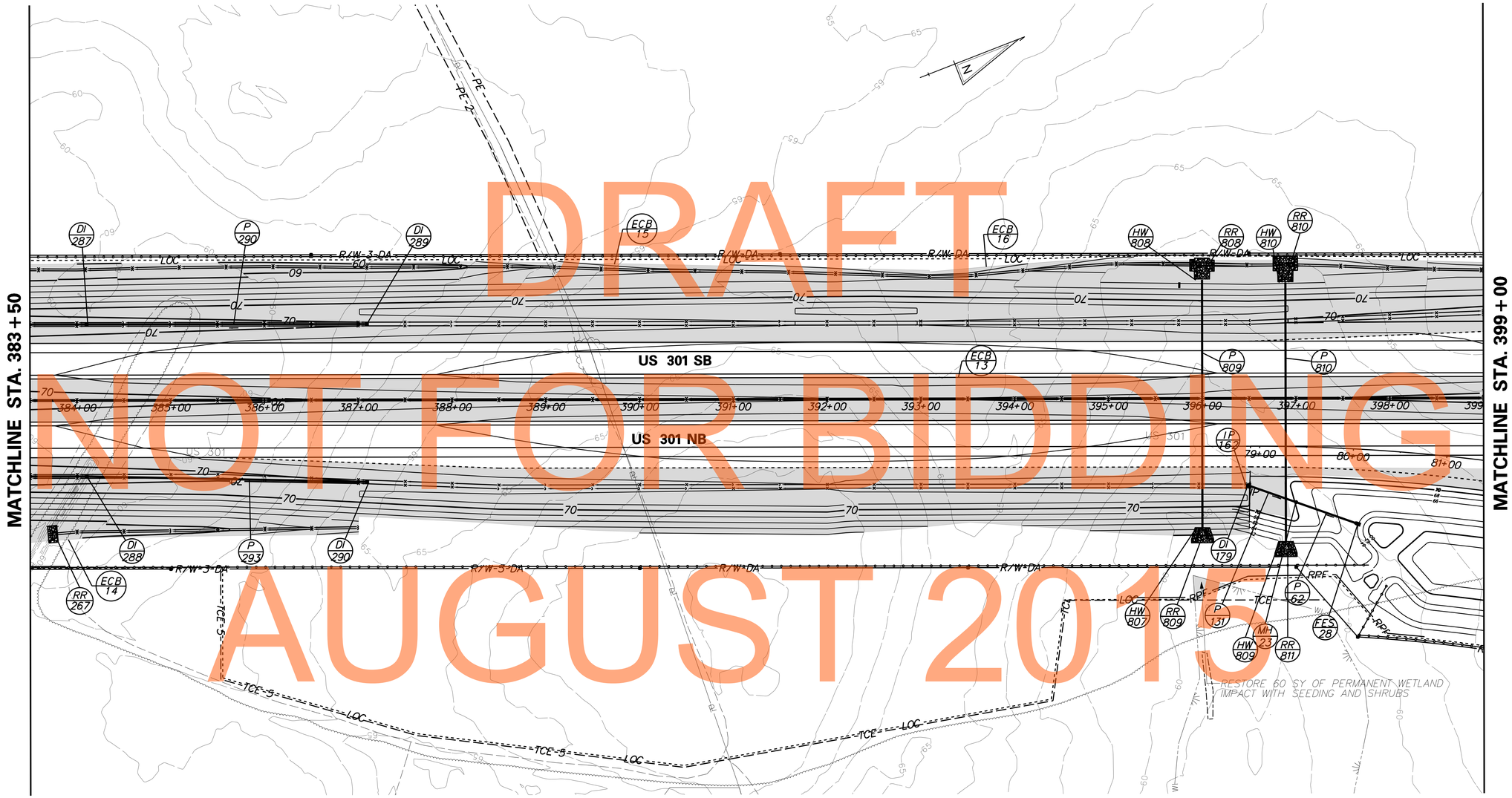
| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-56 |
|---|
| SHEET NO. |
| 917 |
| TOTAL SHTS. |
| 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 7922 | 1550 LF | 46 LF | 5 |
| 14 | 10736 | 1550 LF | 74 LF | 5 |
| 15 | 8884 | 957 LF | 87 LF | 6 |
| 16 | 5515 | 593 LF | 91 LF | 5 |

| INLET PROTECTION | | |
|---|---|---|
| NO. | D. AREA | STATION |
| 162 | 4.5 | 396+50, RT |

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NOT FOR BIDDING
AUGUST 2015

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

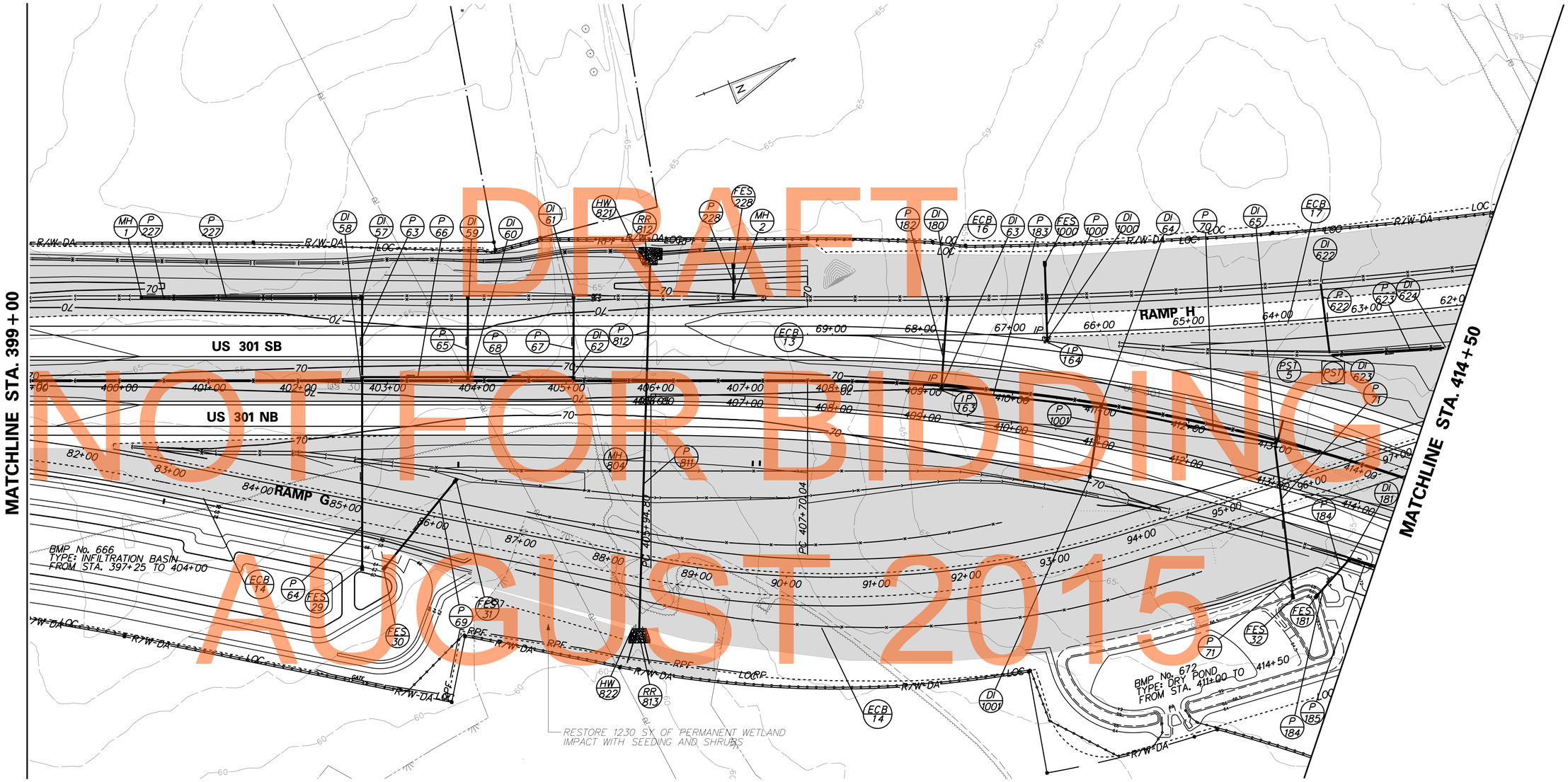
CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-57 |
|---|
| SHEET NO. |
| 918 |
| TOTAL SHTS. |
| 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 9379 | 1547 LF | 73 LF | 5 |
| 14 | 24712 | 1520 LF | 246 LF | 5 |
| 16 | 12696 | 1620 LF | 69 LF | 5 |
| 17 | 3081 | 440 LF | 137 LF | 5 |

| PORTABLE SEDIMENT TANK | |
|---|---|
| NO. | STATION |
| 5 | 413+43, LT |

| INLET PROTECTION | | |
|---|---|---|
| NO. | D. AREA | STATION |
| 163 | 1.6 | 409+20, LT |
| 164 | 0.1 | 410+32, LT |




NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | | |
| NEW CASTLE | CHECKED BY: | SF |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-58 |
|---|
| SHEET NO. |
| 919 |
| TOTAL SHTS. |
| 1256 |

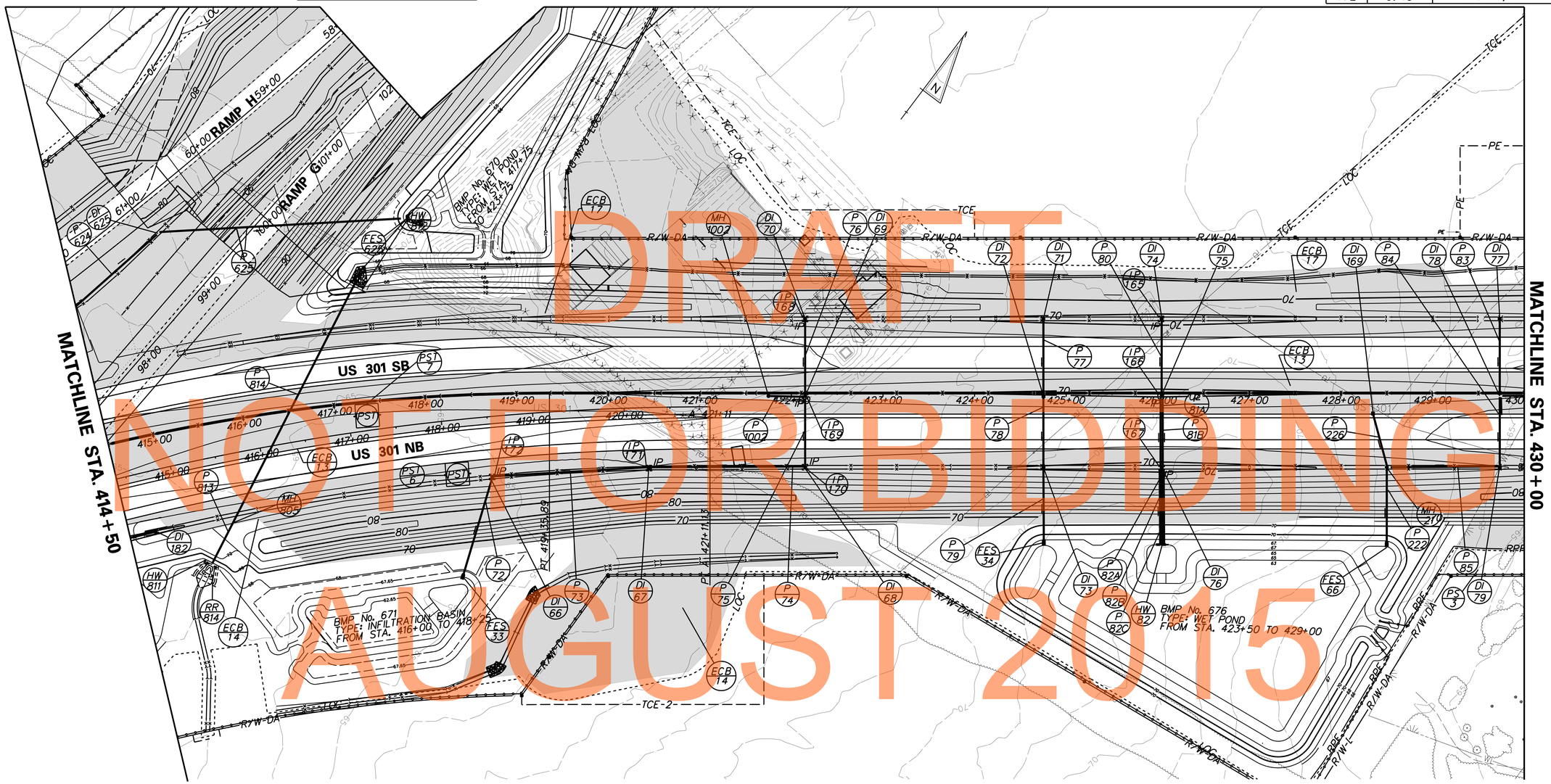
| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 8863 | 1550 LF | 47 LF | 5 |
| 14 | 17742 | 1524 LF | 101 LF | 5 |
| 17 | 22868 | 1570 LF | 60 LF | 5 |

| PERMANENT SEEDING | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 3 | 480 | 80 LF | 20 LF | WET GROUND EROSION CONTROL SEEDING-FLATS |

| INLET PROTECTION | | |
|---|---|---|
| NO. | D. AREA | STATION |
| 165 | 1.8 | 426+00, LT |
| 166 | 2.1 | 426+00, LT |
| 167 | 1.7 | 426+00, RT |
| 168 | 0.38 | 422+15, LT |
| 169 | 0.32 | 422+15, RT |
| 170 | 0.51 | 422+15, RT |
| 171 | 0.34 | 420+45, RT |
| 172 | 0.45 | 418+70, RT |

SEE STKP-5 THRU STKP-10 FOR SPUR ROAD, GRADING AND E&S CONTROLS

MATCHLINE SHEET 921




DRAFT
NOT FOR BIDDING
AUGUST 2015

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

| PORTABLE SEDIMENT TANK | |
|---|---|
| NO. | STATION |
| 6 | 418+11, RT |
| 7 | 417+00, RT |

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

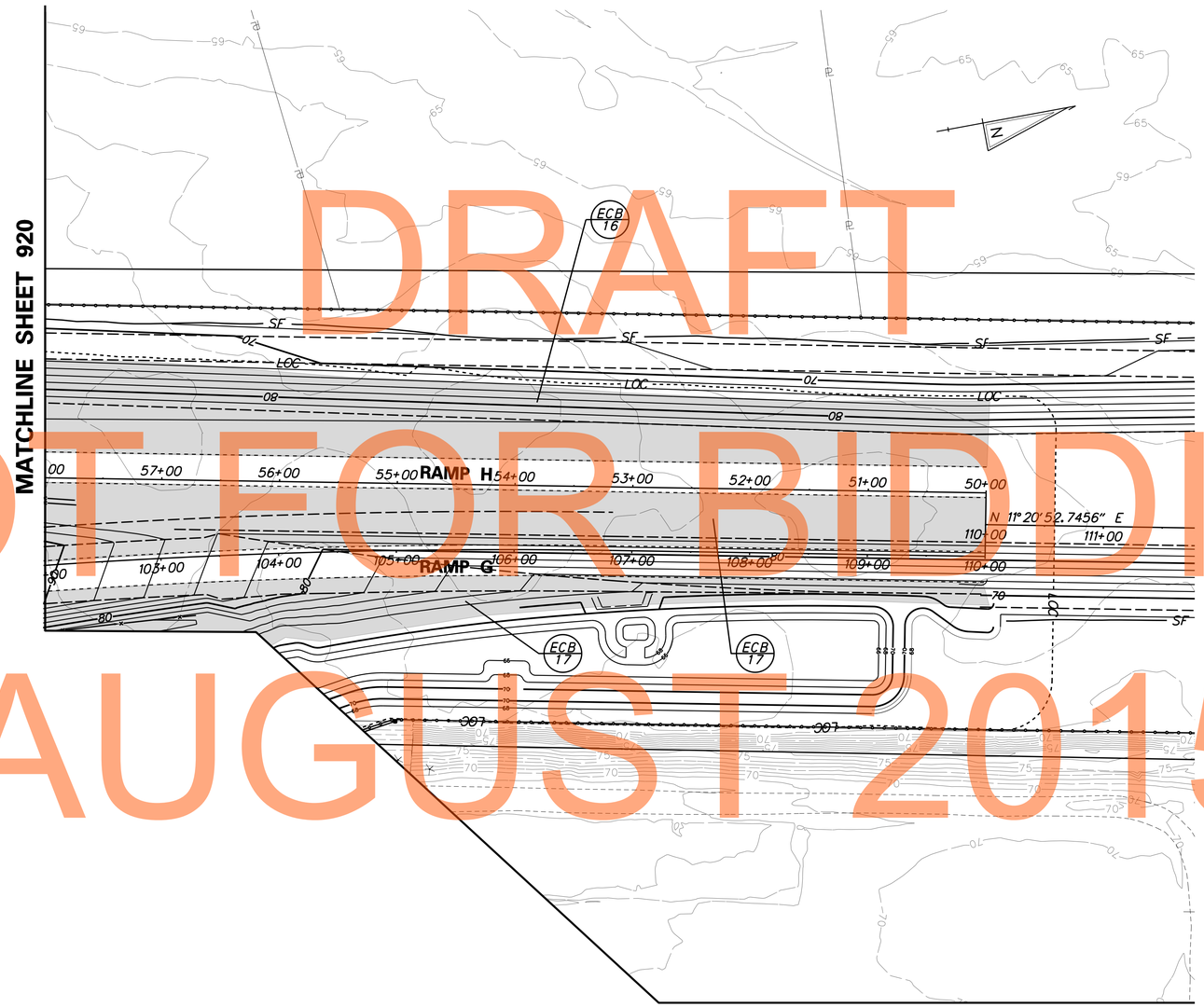
US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-59 |
|---|
| SHEET NO. 920 |
| TOTAL SHTS. 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 16 | 5709 | 800 LF | 75 LF | 5 |
| 17 | 7227 | 800 LF | 50 LF | 5 |




SEE STKP-5 THRU STKP-10 FOR SPUR ROAD, GRADING AND E&S CONTROLS

MATCHLINE SHEET 920

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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AUGUST 2015

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

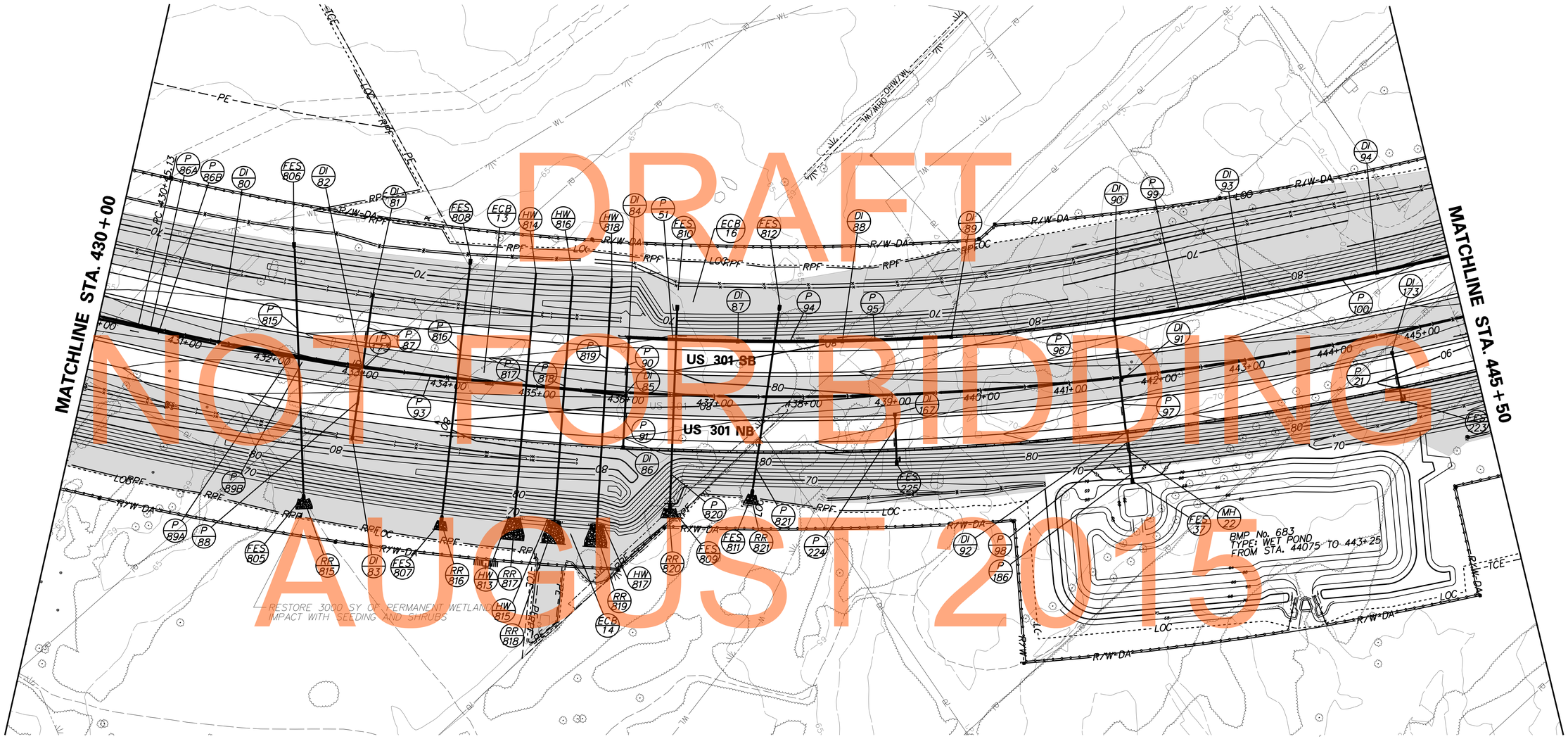
| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-60 |
|---|
| SHEET NO. |
| 921 |
| TOTAL SHTS. |
| 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 7922 | 1550 LF | 47 LF | 5 |
| 14 | 13485 | 1584 LF | 79 LF | 5 |
| 16 | 14091 | 1506 LF | 64 LF | 5 |

| INLET PROTECTION | | |
|---|---|---|
| NO. | D. AREA | STATION |
| 173 | 0.5 | 433+02, RT |




NOTE:
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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

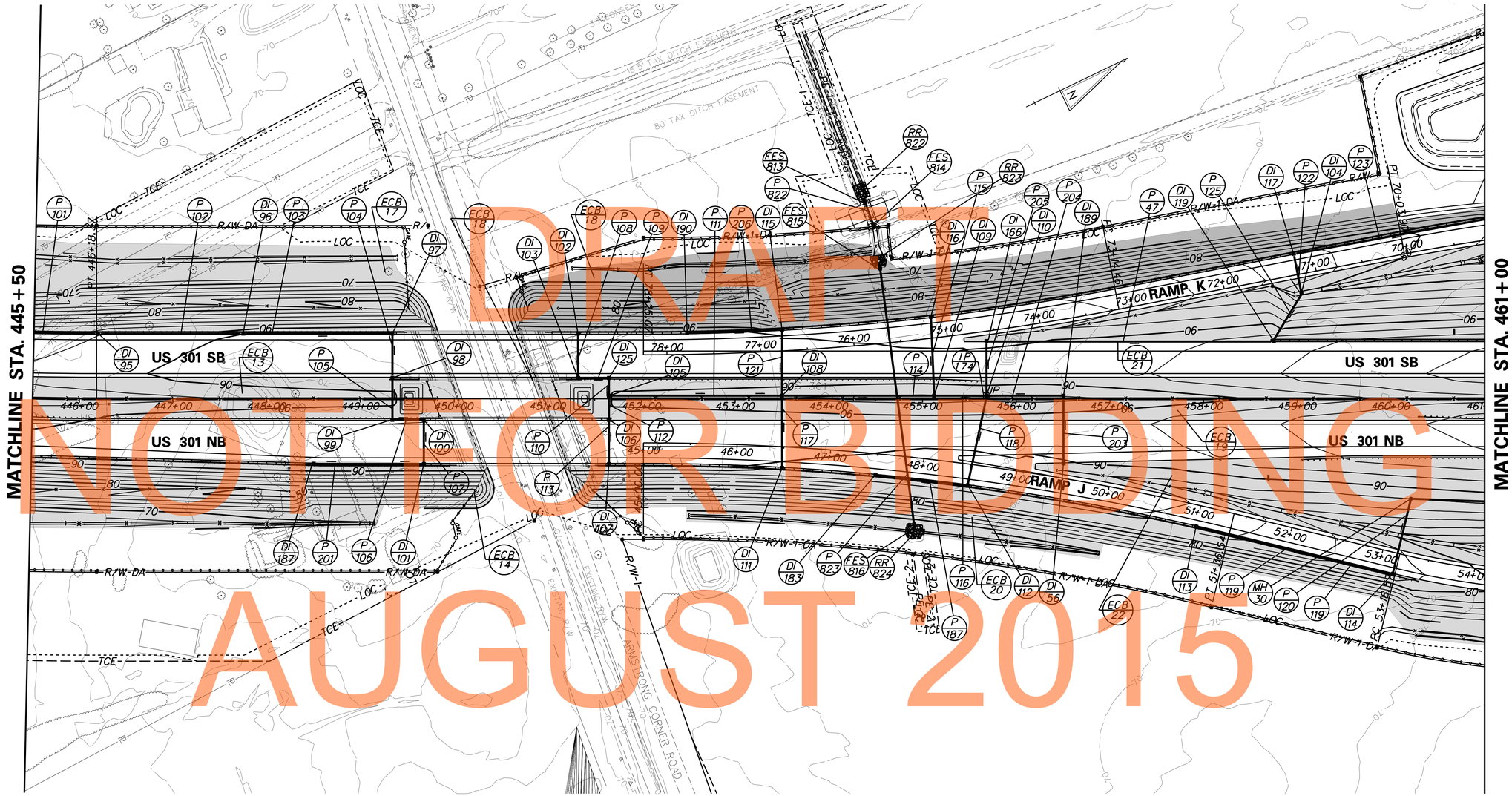
| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3**

| CS-61 |
|---|
| SHEET NO. |
| 922 |
| TOTAL SHTS. |
| 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 13 | 2315 | 466 LF | 47 LF | 5 |
| 14 | 3696 | 494 LF | 78 LF | 5 |
| 17 | 4233 | 421 LF | 85 LF | 5 |
| 18 | 6362 | 1050 LF | 87 LF | 5 |
| 19 | 5119 | 1016 LF | 45 LF | 5 |
| 20 | 5403 | 987 LF | 70 LF | 5 |
| 21 | 3189 | 556 LF | 102 LF | 6 |
| 22 | 3316 | 483 LF | 118 LF | 5 |

| INLET PROTECTION | | |
|---|---|---|
| NO. | D. AREA | STATION |
| 174 | 0.4 | 453+50, RT |




NOTE:
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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

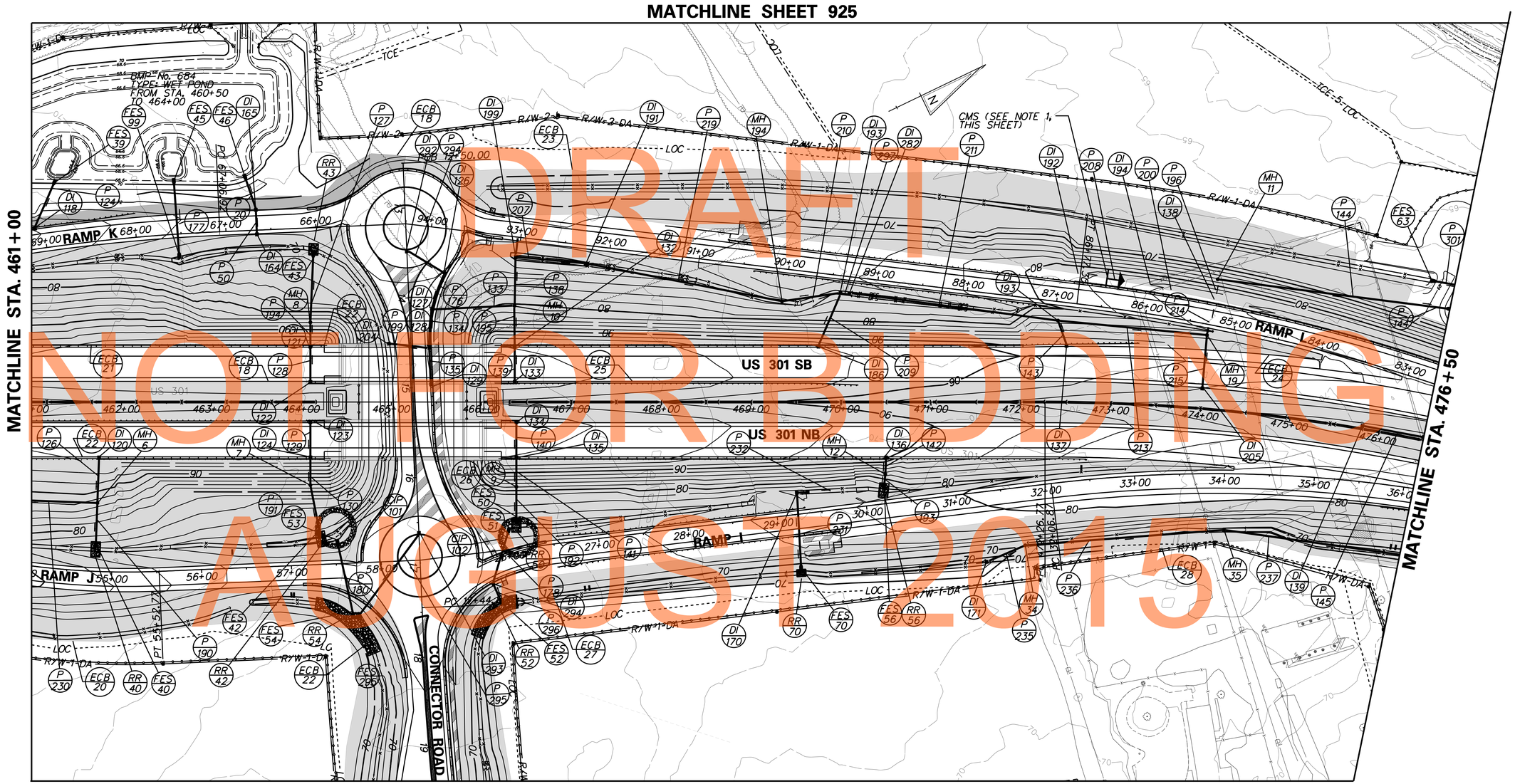
**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3**

| CS-62 |
|---|
| SHEET NO. |
| 923 |
| TOTAL SHTS. |
| 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 18 | 727 | 551 LF | 32 LF | 5 |
| 19 | 1856 | 368 LF | 46 LF | 5 |
| 20 | 3135 | 383 LF | 59 LF | 5 |
| 21 | 4953 | 168 LF | 113 LF | 6 |
| 22 | 5038 | 394 LF | 121 LF | 5 |
| 23 | 9739 | 1297 LF | 91 LF | 5 |
| 24 | 7123 | 985 LF | 117 LF | 5 |
| 25 | 5461 | 1072 LF | 46 LF | 5 |
| 26 | 4807 | 880 LF | 94 LF | 5 |
| 27 | 3750 | 831 LF | 48 LF | 5 |
| 28 | 2461 | 422 LF | 63 LF | 6 |

| STONE CHECK DAM FOR CULVERT INFLOW PROTECTION | | | | |
|---|---|---|---|---|
| NO. | D. AREA | STATION | QTY. | UNITS |
| 101 | 3.8 | 464+40, RT | 23 | TON |
| 102 | 1.5 | 466+32, RT | 23 | TON |

MATCHLINE SHEET 925




MATCHLINE SHEET 927

NOTE:

1. AT THE TIME THAT THE ENTIRE US301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND ITS DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE TRAFFIC CONTROL PLANS SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE
0 60 120 180
FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3

| CS-63 |
|---|
| SHEET NO. |
| 924 |
| TOTAL SHTS. |
| 1256 |

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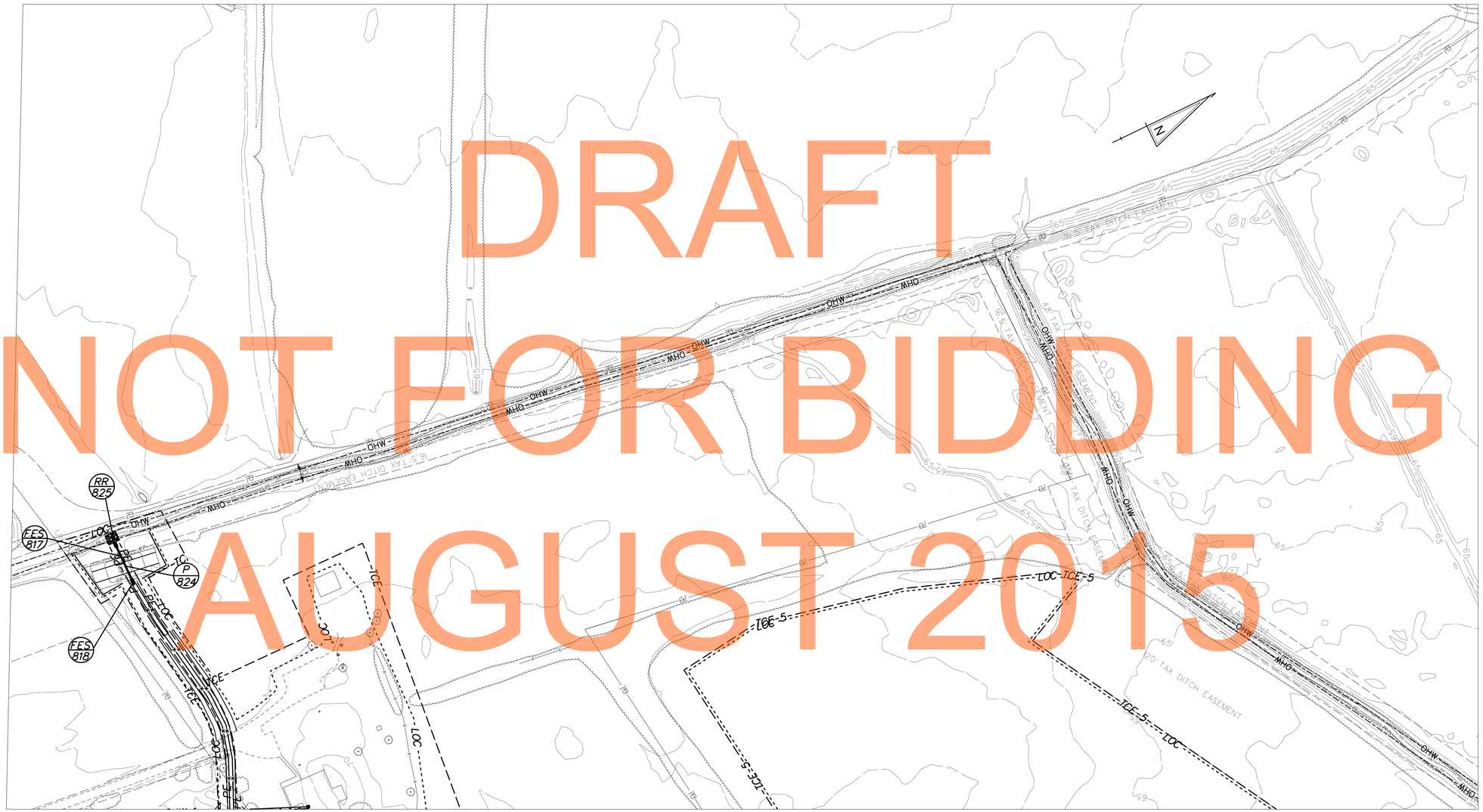


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AUGUST 2015

**MATCHLINE SHEET 925**

*NOTE:*
*FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **DELAWARE DEPARTMENT OF TRANSPORTATION** | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | **US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD** | CONTRACT T200911303 | BRIDGE NO. | **CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3** | CS-64 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 925 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |

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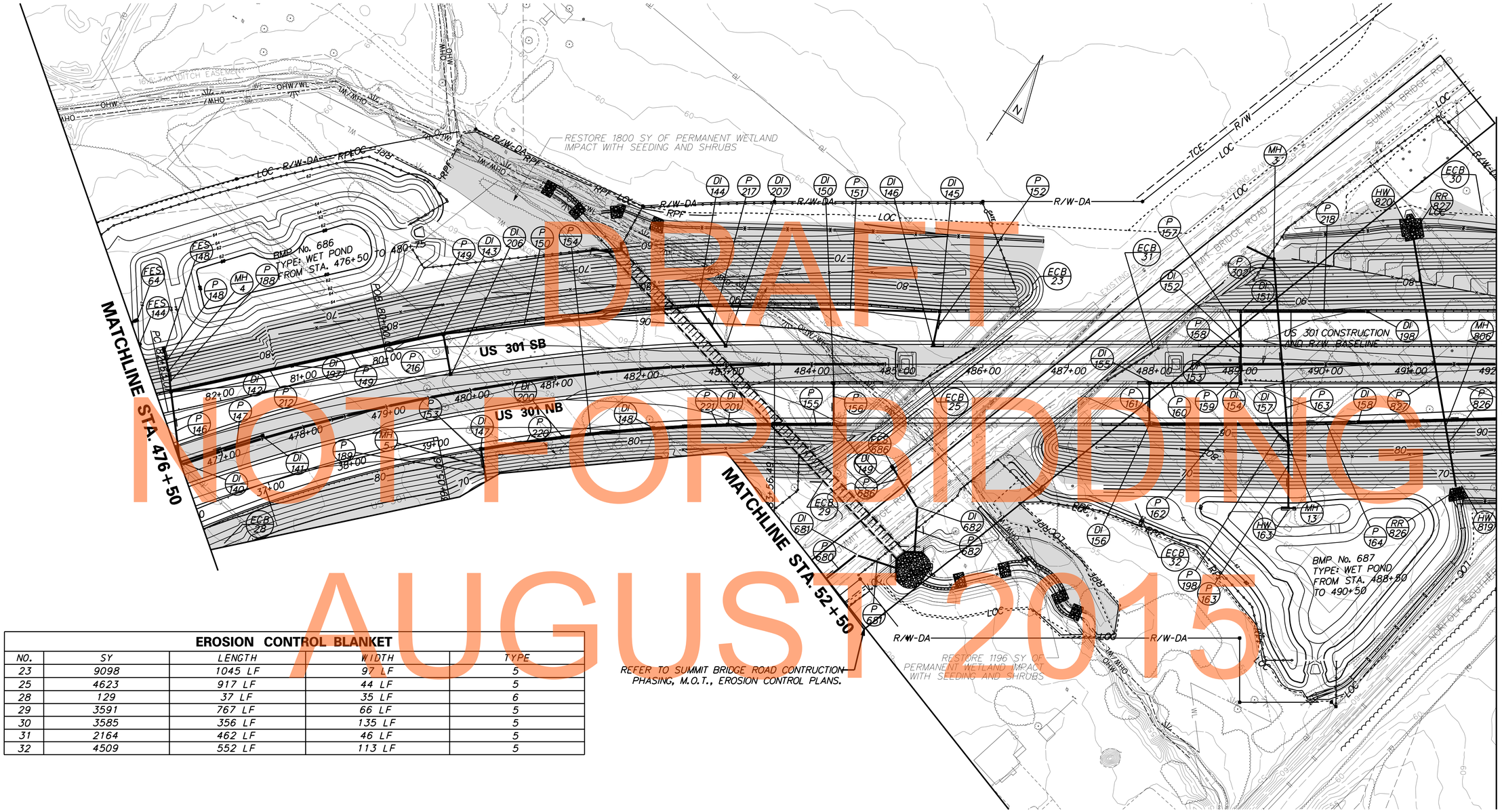


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AUGUST 2015

REFER TO SUMMIT BRIDGE ROAD CONTRUCTION PHASING, M.O.T., EROSION CONTROL PLANS.

**EROSION CONTROL BLANKET**

| NO. | SY | LENGTH | WIDTH | TYPE |
|---|---|---|---|---|
| 23 | 9098 | 1045 LF | 97 LF | 5 |
| 25 | 4623 | 917 LF | 44 LF | 5 |
| 28 | 129 | 37 LF | 35 LF | 6 |
| 29 | 3591 | 767 LF | 66 LF | 5 |
| 30 | 3585 | 356 LF | 135 LF | 5 |
| 31 | 2164 | 462 LF | 46 LF | 5 |
| 32 | 4509 | 552 LF | 113 LF | 5 |

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

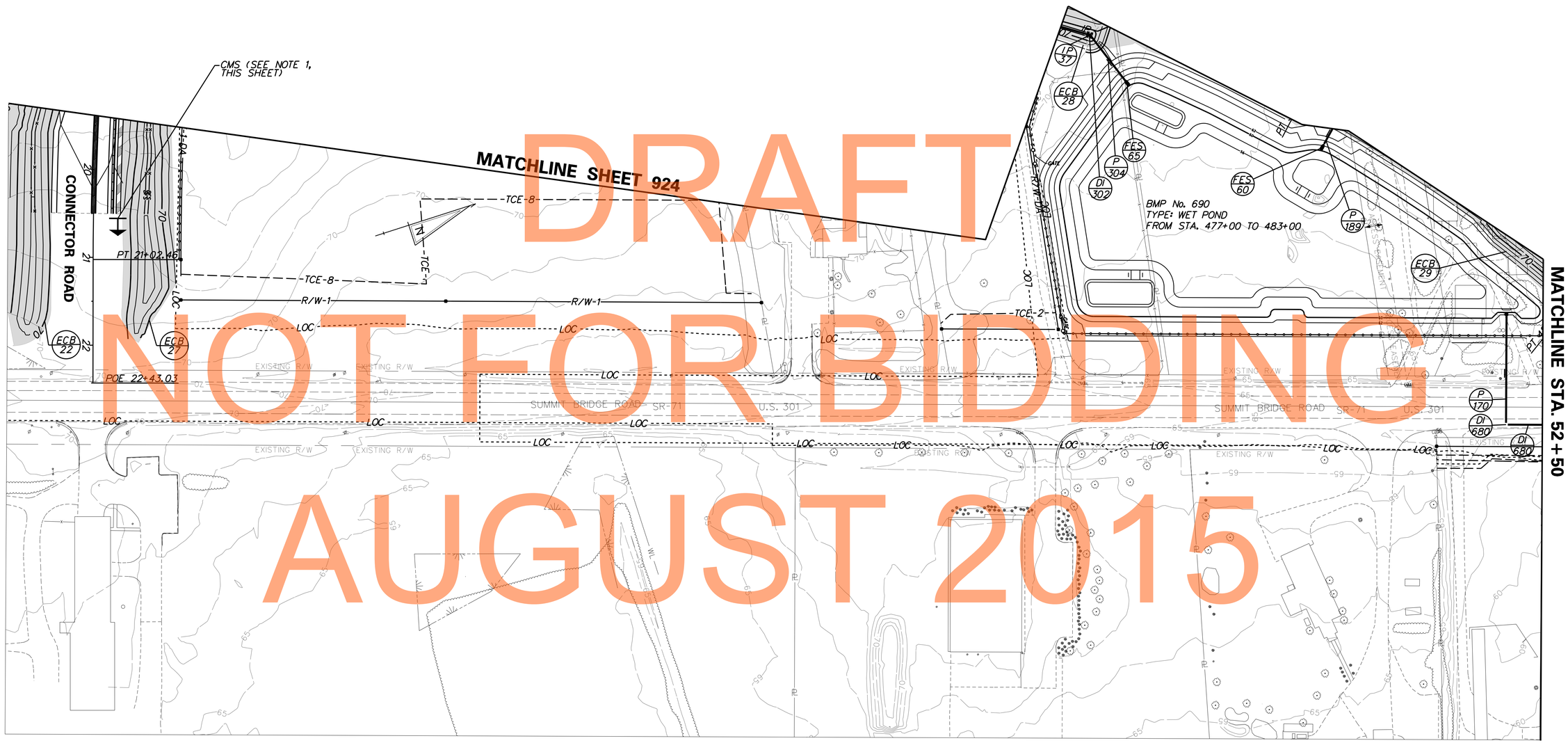
**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3**

CS-65
SHEET NO. 926
TOTAL SHTS. 1256

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 22 | 1461 | 260 LF | 40 LF | 6 |
| 27 | 1457 | 233 LF | 25 LF | 5 |
| 28 | 142 | 36 LF | 35 LF | 5 |
| 29 | 264 | 280 LF | 22 LF | 5 |




DRAFT
NOT FOR BIDDING
AUGUST 2015

NOTE:

1. AT THE TIME THAT THE ENTIRE US301 MAINLINE FROM THE MARYLAND STATE LINE TO SR1 IS READY TO BE OPEN TO PUBLIC TRAFFIC, DELDOT MAY DECIDE TO ALLOW PUBLIC USE OF THE US301 FACILITY FOR A SHORT PERIOD OF TIME BEFORE STARTING TO COLLECT TOLLS. THE DETERMINATION IF THIS TOLL GRACE PERIOD IS TO BE USED AND ITS DURATION WILL BE MADE BY DELDOT AT THE TIME THE ENTIRE US301 FACILITY IS READY TO BE OPEN TO PUBLIC TRAFFIC. THE TRAFFIC CONTROL PLANS SHOWN ON THIS SHEET SHALL BE IMPLEMENTED IF THE TOLL GRACE PERIOD IS USED.

NOTE:
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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3 | CS-66 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 927 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |

| EROSION CONTROL BLANKET | | | | |
|---|---|---|---|---|
| NO. | SY | LENGTH | WIDTH | TYPE |
| 30 | 2807 | 272 LF | 32 LF | 5 |
| 31 | 925 | 190 LF | 46 LF | 5 |
| 32 | 48 | 100 LF | 96 LF | 5 |

DRAFT
NOT FOR BIDDING
AUGUST 2015

NOTE:
FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

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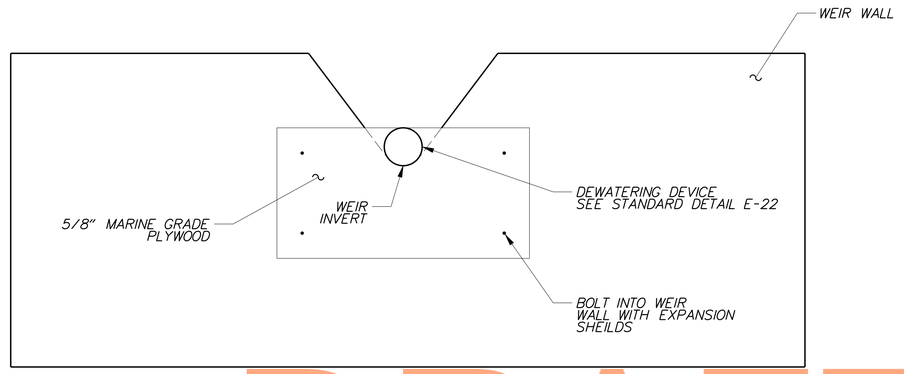
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – STAGE 3 | CS-67 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 928 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |

NOTE:

1. ALONG WITH BOLTS, ATTACHED PLYWOOD TO WALL WITH A WATER TIGHT SEAL.
2. AFTER REMOVAL OF PLYWOOD REPAIR HOLES WITH GROUT.
3. COST OF PLYWOOD AND OTHER MATERIALS IS INCIDENTAL TO THE COST OF THE DEWATERING DEVICE.

| SED. BASIN NO. | WEIR INVERT EL. | DEWATERING DEVICE EL. |
|---|---|---|
| 3 | 60.85' | 59.5' |
| 7 PHASE 1 | 61.25' | 60.63' |
| 7 PHASE 2 | 62.22' | 60.63' |
| 9 PHASE 1 | 64.18' | 63.08' |
| 9 PHASE 2 | 64.48' | 63.08' |
| 10 | 67.09' | 66.08' |
| 11 | NO BLOCKAGE | 65.5' |
| 15 | 68.69' | 67.64' |
| 18 | 64.73' | 63.08' |
| 20 | BLOCK RISER WEIR COMPLETELY | 58.00' |
| 21 | 58.78' | 58.04' |




DEWATERING DEVICE DETAIL

SCALE: NONE

DRAFT

NOT FOR BIDDING

AUGUST 2015

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD

| | |
|---|---|
| CONTRACT | T200911303 |
| COUNTY | NEW CASTLE |
| BRIDGE NO. | |
| DESIGNED BY: | JW |
| CHECKED BY: | SF |

EROSION AND SEDIMENT CONTROL DETAILS

| | |
|---|---|
| | CS-68 |
| SHEET NO. | 929 |
| TOTAL SHTS. | 1256 |

DRAFT
NOT FOR BIDDING
AUGUST 2015

GRADING DETAIL FOR STORMWATER STORAGE AREA STA. 372

PLAN

POND CONSTRUCTION SEQUENCE AND NOTES

THE STORAGE AREA SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS:

SECTION 271 - STORMWATER MANAGEMENT POND

1. REMOVE THE TEMPORARY TOPSOIL STOCKPILE.
2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON EROSION SEDIMENT CONTROL PLANS
4. CLEAR AND GRUB REMAINING AREA FOR STORAGE AREA CONSTRUCTION.
5. EXCAVATE THE STORAGE AREA AND COMPLETE THE EMBANKMENT, GRADES AND DETAILS SHOWN IN THE CONSTRUCTION PLANS. DURING EXCAVATION, THE CONTRACTOR SHALL SALVAGE AND STOCKPILE SOILS CLASSIFIED AS CH, CL, AND GM PER THE UNIFIED SOIL CLASSIFIED SYSTEM TO BE USED TO CONSTRUCT EMBANKMENT AND TO LINE THE STORAGE AREA. THE ABOVE CLASSIFIED SOILS MAY BE OBTAINED FROM ELSEWHERE WITHIN THE PROJECT LIMITS, IF NECESSARY.
6. STABILIZE ALL BARE AREAS.
   NOTE: SEE EROSION AND SEDIMENT CONTROL PLANS FOR LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES.
7. THE CONTRATOR SHALL PROVIDE 'AS-BUILT' DRAWINGS OF ALL STORMWATER MANAGEMENT FACILITIES SUCH AS STORAGE AREA, INFILTRATION BASINS, BIOFILTRATION SWALES, ETC. 'AS-BUILT' DRAWINGS SHALL SHOW THE ACTUAL FINISHED GROUND CONTOURS, OUTLET STRUCTURE DIMENSIONS AND ELEVATIONS, ETC. AS THEY EXIST AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER OR LAND SURVEYOR.

PLANTING SCHEDULE

PERMANENT GRASS SEEDING - WET GROUND UP TO ELEVATION 59.72'
PERMANENT GRASS SEEDING - DRY GROUND ABOVE ELEVATION 59.72'

GRADING QUANTITIES

| ITEM NO. | ITEM | QTY. | UNITS. |
|---|---|---|---|
| 202000 | EXCAVATION AND EMBANKMENT | 44538 | CY |
| 733002 | TOPSOILING, 6" DEPTH | 11862 | SY |
| 734013 | PERMANENT GRASS SEEDING, DRY GROUND | 11455 | SY |
| 734015 | PERMANENT GRASS SEEDING, WET GROUND | 23940 | SY |

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

SCALE 0 30 60 90 FEET

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

CONTRACT T200911303
COUNTY NEW CASTLE
BRIDGE NO.
DESIGNED BY: JW
CHECKED BY: SF

EROSION AND SEDIMENT CONTROL DETAIL

CS-69
SHEET NO. 930
TOTAL SHTS. 1256

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NOT FOR BIDDING
AUGUST 2015

GRADING DETAIL FOR STORMWATER STORAGE AREA STA. 372

PLAN

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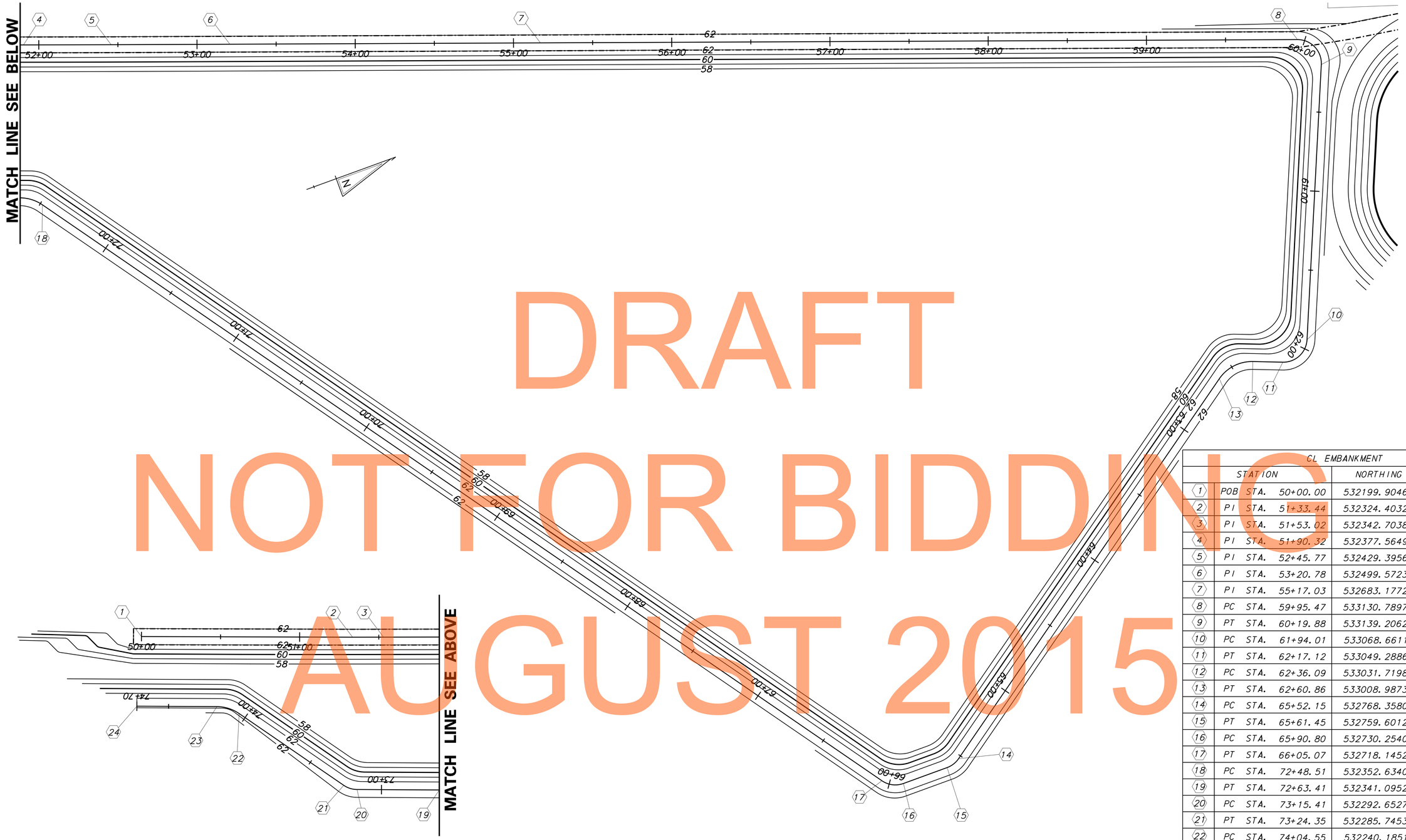
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 30 60 90 FEET | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | EROSION AND SEDIMENT CONTROL DETAIL | CS-70 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 931 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |




| CL EMBANKMENT | | | | | |
|---|---|---|---|---|---|
| | STATION | | | NORTHING | EASTING |
| 1 | POB | STA. | 50+00.00 | 532199.9046 | 565298.2205 |
| 2 | PI | STA. | 51+33.44 | 532324.4032 | 565346.2473 |
| 3 | PI | STA. | 51+53.02 | 532342.7038 | 565353.2200 |
| 4 | PI | STA. | 51+90.32 | 532377.5649 | 565366.4798 |
| 5 | PI | STA. | 52+45.77 | 532429.3956 | 565386.1732 |
| 6 | PI | STA. | 53+20.78 | 532499.5723 | 565412.6681 |
| 7 | PI | STA. | 55+17.03 | 532683.1772 | 565481.9764 |
| 8 | PC | STA. | 59+95.47 | 533130.7897 | 565650.9439 |
| 9 | PT | STA. | 60+19.88 | 533139.2062 | 565671.0541 |
| 10 | PC | STA. | 61+94.01 | 533068.6611 | 565830.2593 |
| 11 | PT | STA. | 62+17.12 | 533049.2886 | 565838.0743 |
| 12 | PC | STA. | 62+36.09 | 533031.7198 | 565830.9179 |
| 13 | PT | STA. | 62+60.86 | 533008.9873 | 565853.3879 |
| 14 | PC | STA. | 65+52.15 | 532768.3580 | 565998.9633 |
| 15 | PT | STA. | 65+61.45 | 532759.6012 | 566001.6165 |
| 16 | PC | STA. | 65+90.80 | 532730.2540 | 566001.1547 |
| 17 | PT | STA. | 66+05.07 | 532718.1452 | 565994.6773 |
| 18 | PC | STA. | 72+48.51 | 532352.6340 | 565465.1233 |
| 19 | PT | STA. | 72+63.41 | 532341.0952 | 565456.0147 |
| 20 | PC | STA. | 73+15.41 | 532292.6527 | 565437.1728 |
| 21 | PT | STA. | 73+24.35 | 532285.7453 | 565431.7138 |
| 22 | PC | STA. | 74+04.55 | 532240.1851 | 565365.7061 |
| 23 | PT | STA. | 74+19.46 | 532228.6602 | 565356.6028 |
| 24 | POE | STA. | 74+70.05 | 532181.5054 | 565338.2911 |

GRADING DETAIL FOR STORMWATER STORAGE AREA STA. 372
STAKEOUT

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

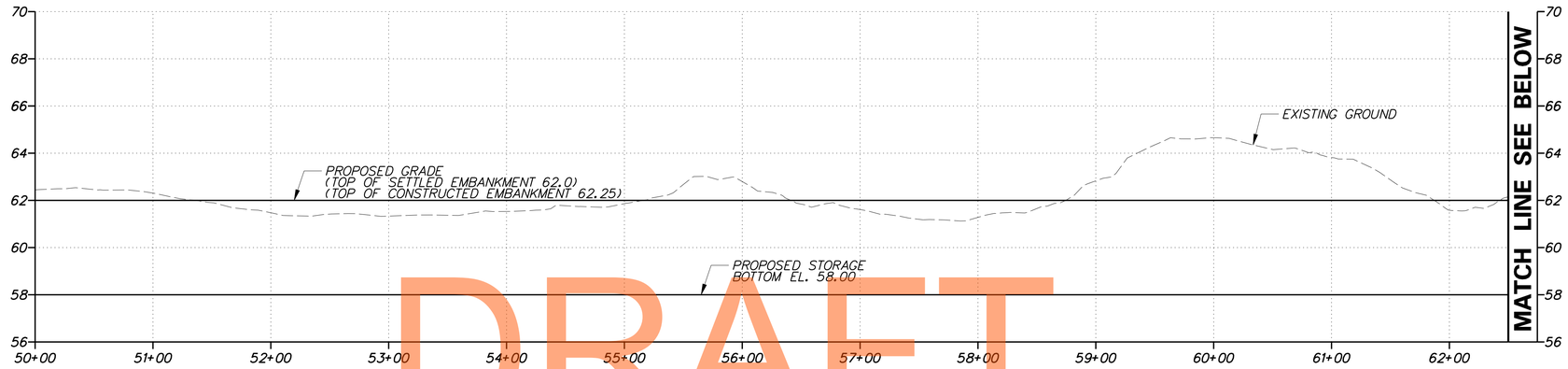
SCALE 0 30 60 90 FEET

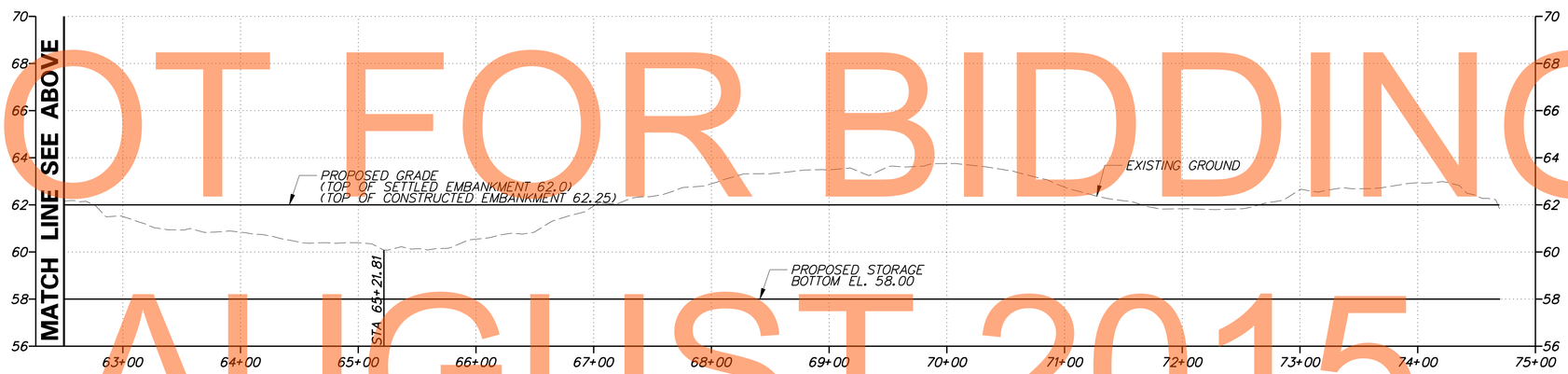
**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | JW |
| COUNTY | CHECKED BY: | SF |
| NEW CASTLE | | |

**EROSION AND SEDIMENT CONTROL DETAIL**

| CS-71 |
|---|
| SHEET NO. |
| 932 |
| TOTAL SHTS. |
| 1256 |




DRAFT
NOT FOR BIDDING
AUGUST 2015

CS

GRADING DETAIL FOR STORMWATER STORAGE AREA STA. 372
EMBANKMENT PROFILE FOR EXCESS STORAGE AREA

HORIZONTAL SCALE: 1" = 60'
0 60 120 180
FEET

VERTICAL SCALE: 1" = 3'
0 3 6 9
FEET

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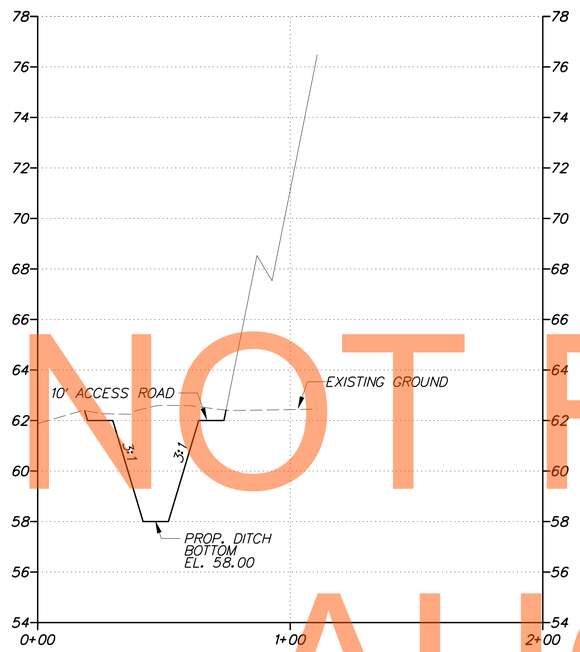
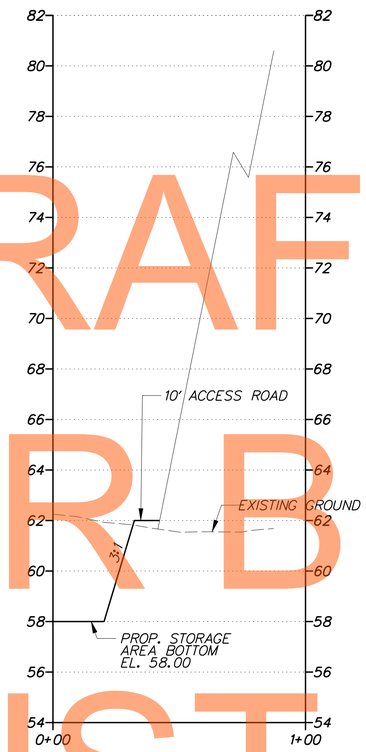
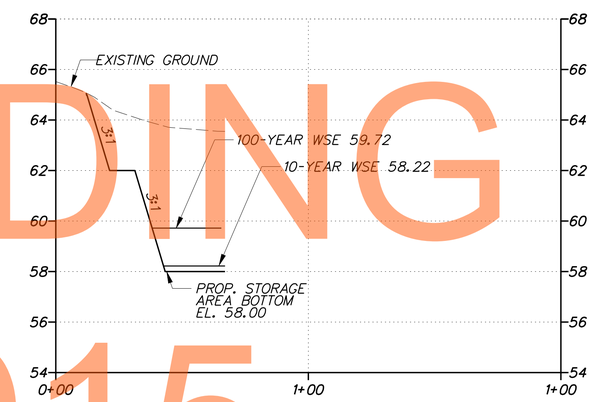
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | AS SHOWN | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | EROSION AND SEDIMENT CONTROL DETAIL | CS-72 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 933 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |




SECTION A-A




SECTION B-B




SECTION C-C

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AUGUST 2015

GRADING DETAIL FOR STORMWATER STORAGE AREA STA. 372

HORIZONTAL SCALE: 1" = 30'
0 30 60 90
FEET

VERTICAL SCALE: 1" = 3'
0 3 6 9
FEET

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | AS SHOWN | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | EROSION AND SEDIMENT CONTROL DETAIL | CS-73 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: JW | | SHEET NO. 934 |
| | | | | | CHECKED BY: SF | | TOTAL SHTS. 1256 |

## CHANGEABLE MESSAGE BOARDS

CMS-1 — PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

| | |
|---|---|
| ARMSTNG CRNR RD TO CLOSE | X:XX PM –X:XX AM XX/XX/XX |

CMS-1 — DURING DETOUR
(UP TO 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

| | |
|---|---|
| ARMSTNG CRNR RD CLOSED | FOLLOW DETOUR |

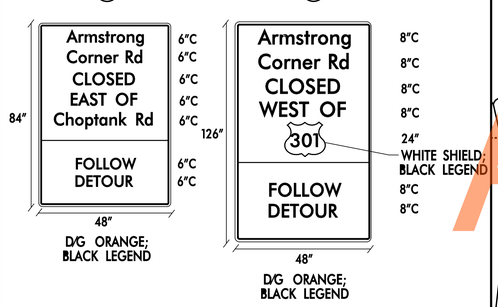
CMS-2 — PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

| | |
|---|---|
| ARMSTNG CRNR RD TO CLOSE | X:XX PM –X:XX AM XX/XX/XX |

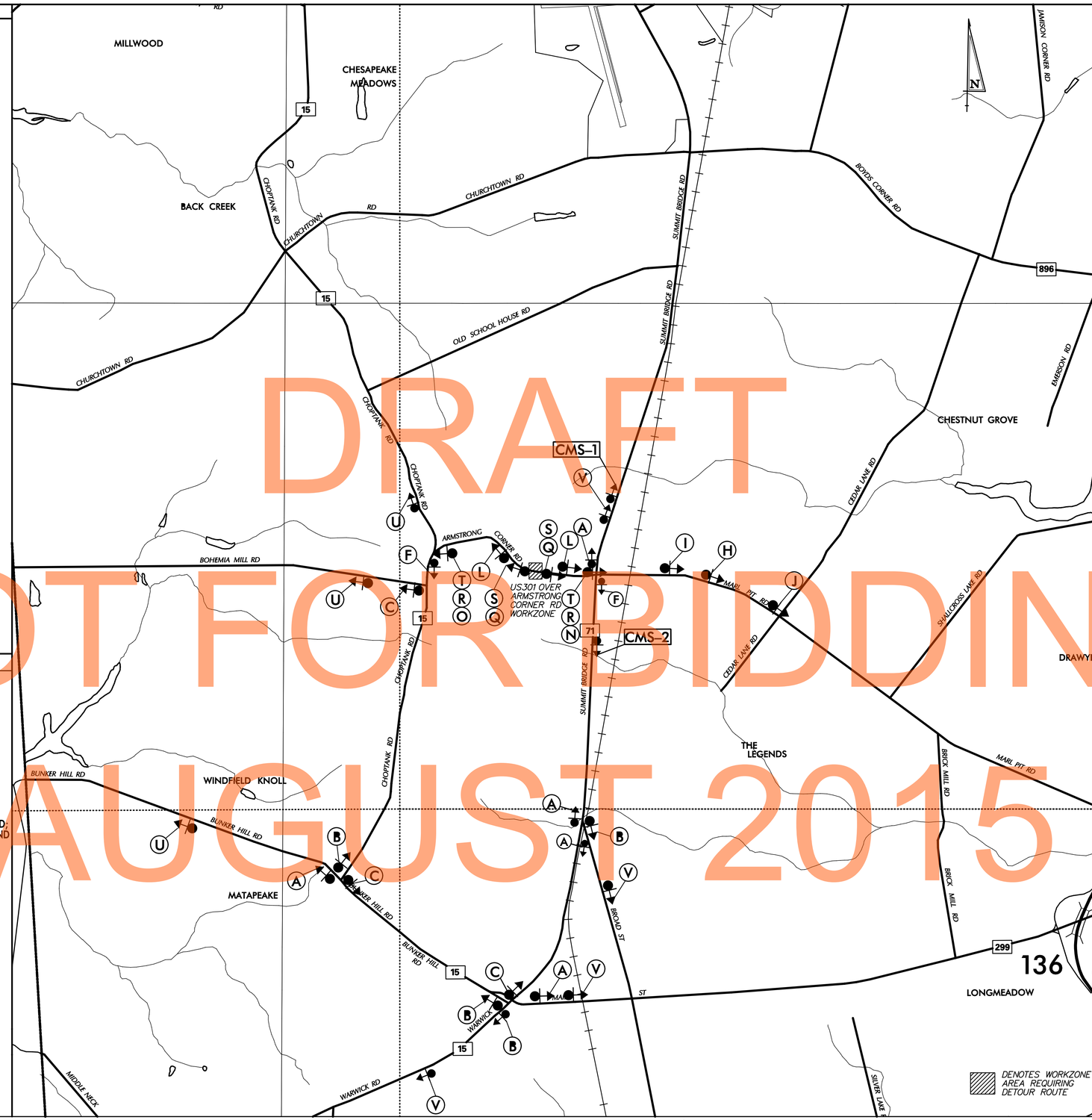
CMS-2 — DURING DETOUR
(UP TO 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

| | |
|---|---|
| ARMSTNG CRNR RD CLOSED | FOLLOW DETOUR |

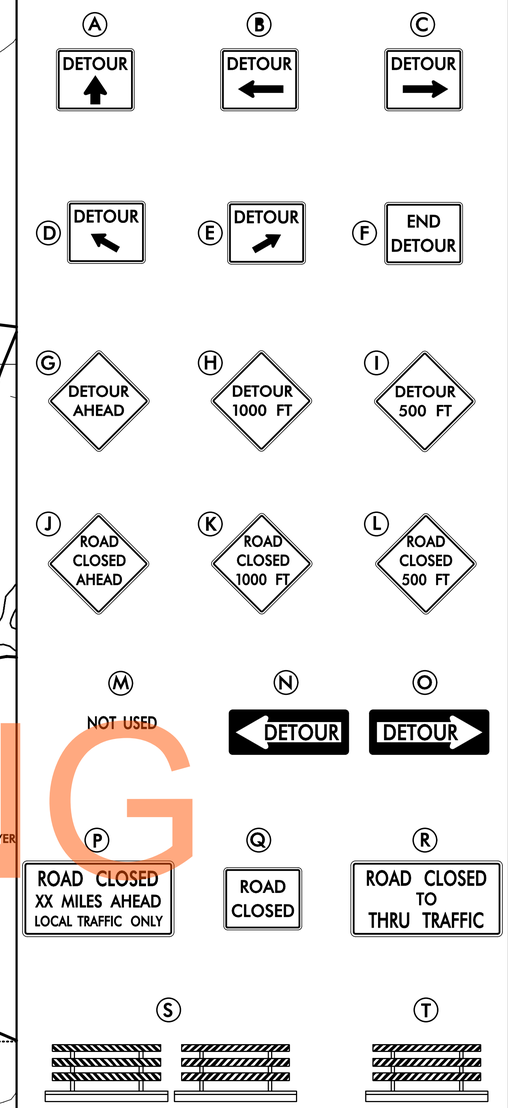
## SPECIAL SIGNS




U AND V SIGNS MUST BE MOUNTED ON TWO 4X6 WOOD POSTS. THE POSTS SHALL BE GROUND MOUNTED AND BREAKAWAY IN ACCORDANCE WITH NCHRP 350.




## LEGEND




## GENERAL NOTES

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

DRAFT
NOT FOR BIDDING
AUGUST 2015

RECOMMENDED _____ DATE: _____ | RECOMMENDED _____ DATE: _____ | RECOMMENDED _____ DATE: _____ | APPROVED CHIEF SAFETY OFFICER _____ DATE: _____ | APPROVED TRAFFIC ENGINEER _____ DATE: _____

**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUM / REVISIONS

SCALE 0 1500 3000 4500 FEET

**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

| | | | |
|---|---|---|---|
| CONTRACT | T200911303 | PERMIT NO. | X |
| COUNTY | NEW CASTLE | DESIGNED BY: | JE |
| | | CHECKED BY: | ER |

**DETOUR PLAN US 301 MAINLINE OVER ARMSTRONG CORNER RD**

CS-74 | SHEET NO. 935 | TOTAL SHTS. 1256

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## CHANGEABLE MESSAGE BOARDS

CMS-1 — PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

| | |
|---|---|
| SUMMIT BRDGE RD TO CLOSE | XX:XX PM –X:XX AM XX/XX/XX |

CMS-1 — DURING DETOUR
(UP TO 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

| | |
|---|---|
| SUMMIT BRDGE RD CLOSED | FOLLOW DETOUR AHEAD |

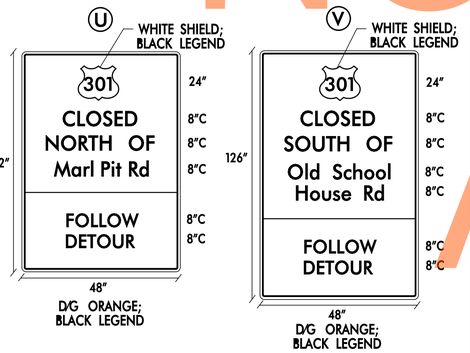
CMS-2 — PRIOR TO DETOUR
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

| | |
|---|---|
| SUMMIT BRDGE RD TO CLOSE | XX:XX PM –X:XX AM XX/XX/XX |

CMS-2 — DURING DETOUR
(UP TO 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

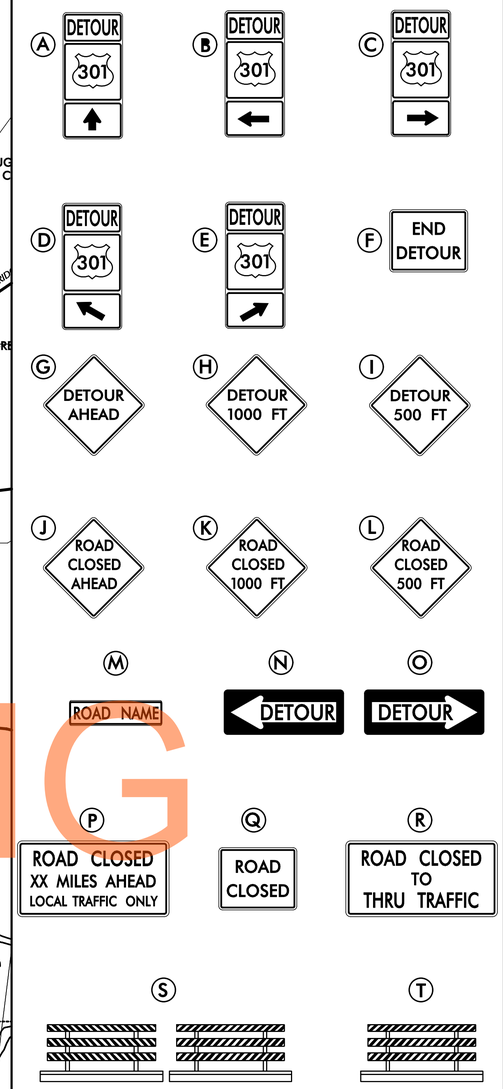
| | |
|---|---|
| SUMMIT BRDGE RD CLOSED | FOLLOW DETOUR AHEAD |

## SPECIAL SIGNS




U AND V SIGNS MUST BE MOUNTED ON TWO 4X6 WOOD POSTS. THE POSTS SHALL BE GROUND MOUNTED AND BREAKAWAY IN ACCORDANCE WITH NCHRP 350.

## LEGEND




## GENERAL NOTES

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

DRAFT
NOT FOR BIDDING
AUGUST 2015

RECOMMENDED _____ DATE: _____ | RECOMMENDED _____ DATE: _____ | RECOMMENDED _____ DATE: _____ | APPROVED CHIEF SAFETY OFFICER _____ DATE: _____ | APPROVED TRAFFIC ENGINEER _____ DATE: _____

**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUM / REVISIONS

SCALE 0 1500 3000 4500 FEET

**US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD**

| | |
|---|---|
| CONTRACT | T200911303 |
| COUNTY | NEW CASTLE |
| PERMIT NO. | X |
| DESIGNED BY: | JE |
| CHECKED BY: | ER |

**DETOUR PLAN US 301 MAINLINE OVER SUMMIT BRIDGE RD DE 71**

| | |
|---|---|
| SHEET NO. | CS-75 |
| | 936 |
| TOTAL SHTS. | 1256 |

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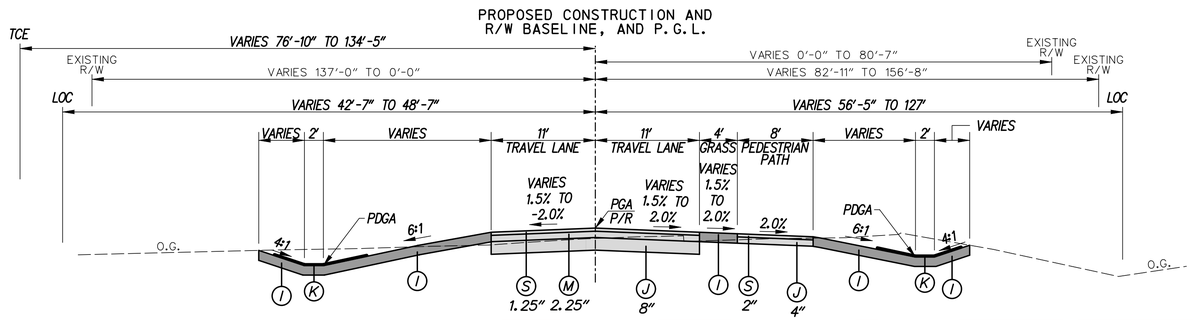
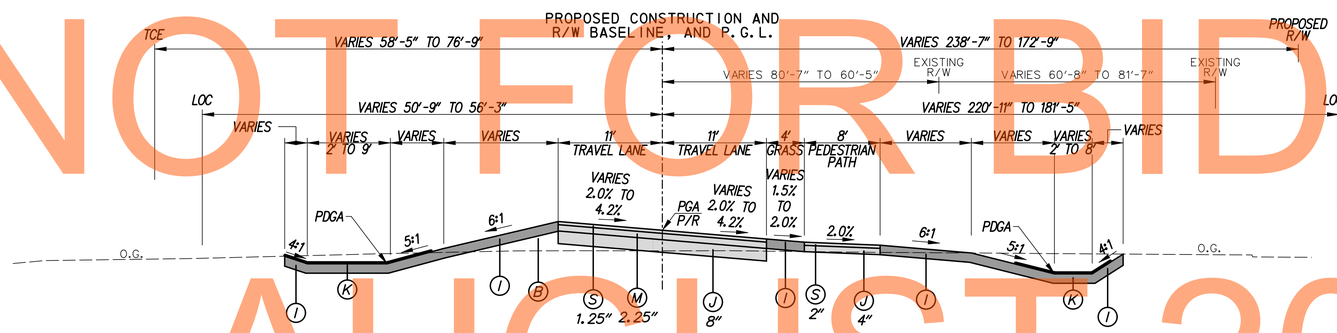



## TYPICAL NORMAL SECTION BUNKER HILL TEMPORARY ROAD

STA. 900+00.00 TO STA. 905+92.23




## TYPICAL SUPERELEVATED RIGHT SECTION BUNKER HILL TEMPORARY ROAD

STA. 905+92.23 TO STA. 912+25.86

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NOT FOR BIDDING
AUGUST 2015

### LEGEND

- (A) ITEM #209001, BORROW TYPE A
- (B) ITEM #209006, BORROW TYPE F
- (C) ITEM #304502, SOIL CEMENT BASE COURSE
- (D) ITEM #304501, PERMEABLE TREATED BASE, 4"
- (E) ITEM #501006, PORTLAND CEMENT CONCRETE PAVEMENT
- (F) ITEM #715001, PERFORATED PIPE UNDERDRAIN
- (G) ITEM #705002, P.C.C. SIDEWALK, 6"
- (H) ITEM #701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4
- (I) ITEM #733002, TOPSOILING, 6" DEPTH
  ITEM #734013, PERMANENT GRASS SEEDING, DRY GROUND
- (J) ITEM #302007, GRADED AGGREGATE BASE COURSE, TYPE B
- (K) ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16
- (L) ITEM #401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (M) ITEM #401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (N) ITEM #401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (O) ITEM #705001, P.C.C. SIDEWALK, 4"
- (P) ITEM #701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1
- (Q) ITEM #701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS)
- (R) ITEM #401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK
- (S) ITEM #401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE)
- (T) ITEM #401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE)
- (U) ITEM #401517, STONE MATRIX ASPHALT
- (V) ITEM #401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (W) ITEM #401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22
- (X) ITEM #743017, PORTABLE BARRIER
- (Y) ITEM #701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3
- (Z) ITEM #701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (AA) ITEM #701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2
- (BB) ITEM #760507, PROFILE MILLING, HOT MIX
- (CC) ITEM #760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH
- (DD) ITEM #760016, RUMBLE STRIPS, HOT MIX
- (EE) ITEM #401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22

NOTES:

1. THE ALGEBRIAC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
3. SEE GRADES AND GEOMETRICS SHEETS FOR ADDITIONAL INFORMATION ON VARYING CROSS-SLOPE AND PAVEMENT WIDTHS.
4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
5. SEE TYPICAL MAINLINE SUPERELEVATION TRANSITION DETAILS FOR ADDITIONAL MEDIAN INFORMATION IN SUPERELEVATED SECTIONS.
6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.
7. SEE ROADWAY PLANS AND SWM PLANS FOR SWM POND AND BMP LOCATIONS.
8. SEE ROADWAY PLANS AND BRIDGE PLANS FOR BRIDGE LOCATIONS.
9. AREAS NOT RECEIVING TOPSOIL SHOULD BE HYDRO SEEDED.
10. ITEMS SHOWN AS DASHED TO BE CONSTRUCTED UNDER SEPERATE CONTRACT.
11. DURING CONSTRUCTION PLACE SUPERPAVE, TYPE B HOT MIX IN 2 EQUAL LIFTS.

P.G.L. - PROFILE GRADE LINE.
P.G.A. - POINT OF GRADE APPLICATION.
P/R - POINT OF ROTATION.
PDGA - POINT OF DITCH GRADE APPLICATION.
PFGA - POINT OF FILL GRADE APPLICATION.

| *FILL SLOPE RATIO CHART | |
|---|---|
| HEIGHT OF EMBANKMENT | SLOPE RATIO |
| 0-5' | 6:1 |
| >5'-10' | 4:1 |
| >10'-15' | 3:1 |
| >15' | 2:1 WITH GUARDRAIL |

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DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

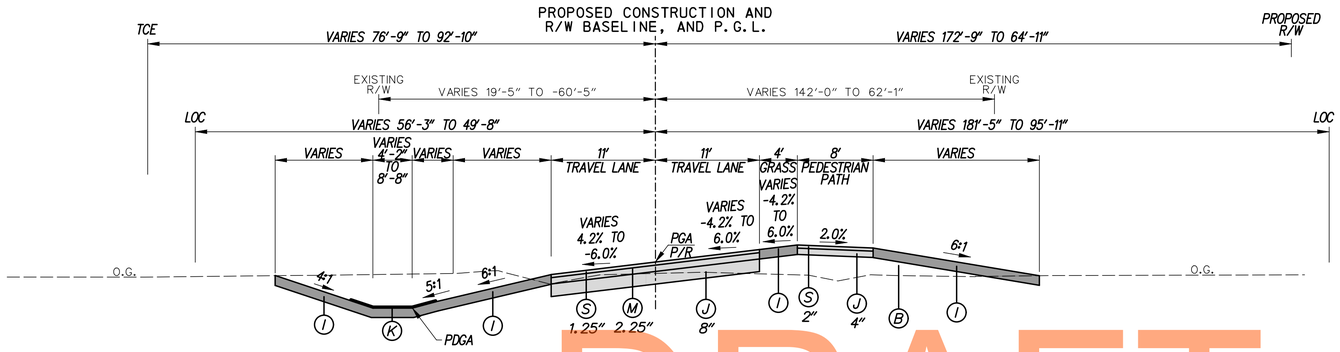
NOT TO SCALE

US 301
LEVELS ROAD
TO SUMMIT BRIDGE ROAD

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | AG |
| COUNTY | | |
| NEW CASTLE | CHECKED BY: | MT |

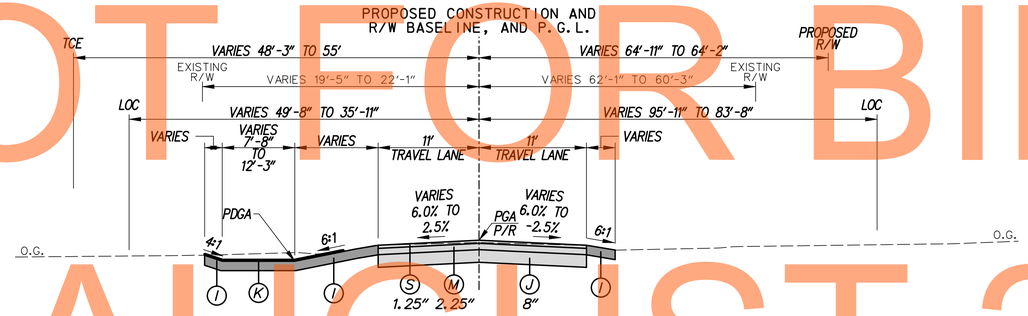
CONSTRUCTION PHASING, M.O.T, AND EROSION CONTROL PLAN

| CS-76 |
|---|
| SHEET NO. |
| 937 |
| TOTAL SHTS. |
| 1256 |




## TYPICAL SUPERELEVATED LEFT SECTION BUNKER HILL TEMPORARY ROAD

STA. 912+25.86 TO STA. 915+32.73




## TYPICAL NORMAL SECTION BUNKER HILL TEMPORARY ROAD

STA. 915+32.73 TO STA. 916+97.73

DRAFT
NOT FOR BIDDING
AUGUST 2015

### LEGEND

- (A) ITEM #209001, BORROW TYPE A
- (B) ITEM #209006, BORROW TYPE F
- (C) ITEM #304502, SOIL CEMENT BASE COURSE
- (D) ITEM #304501, PERMEABLE TREATED BASE, 4"
- (E) ITEM #501006, PORTLAND CEMENT CONCRETE PAVEMENT
- (F) ITEM #715001, PERFORATED PIPE UNDERDRAIN
- (G) ITEM #705002, P.C.C. SIDEWALK, 6"
- (H) ITEM #701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4
- (I) ITEM #733002, TOPSOILING, 6" DEPTH
  ITEM #734013, PERMANENT GRASS SEEDING, DRY GROUND
- (J) ITEM #302007, GRADED AGGREGATE BASE COURSE, TYPE B
- (K) ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16
- (L) ITEM #401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (M) ITEM #401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (N) ITEM #401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (O) ITEM #705001, P.C.C. SIDEWALK, 4"
- (P) ITEM #701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1
- (Q) ITEM #701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS)
- (R) ITEM #401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK
- (S) ITEM #401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE)
- (T) ITEM #401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE)
- (U) ITEM #401517, STONE MATRIX ASPHALT
- (V) ITEM #401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (W) ITEM #401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22
- (X) ITEM #743017, PORTABLE BARRIER
- (Y) ITEM #701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3
- (Z) ITEM #701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (AA) ITEM #701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2
- (BB) ITEM #760507, PROFILE MILLING, HOT MIX
- (CC) ITEM #760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH
- (DD) ITEM #760016, RUMBLE STRIPS, HOT MIX
- (EE) ITEM #401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22

| *FILL SLOPE RATIO CHART | |
|---|---|
| HEIGHT OF EMBANKMENT | SLOPE RATIO |
| 0-5' | 6:1 |
| >5'-10' | 4:1 |
| >10'-15' | 3:1 |
| >15' | 2:1 WITH GUARDRAIL |

NOTES:

1. THE ALGEBRIAC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
3. SEE GRADES AND GEOMETRICS SHEETS FOR ADDITIONAL INFORMATION ON VARYING CROSS-SLOPE AND PAVEMENT WIDTHS.
4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
5. SEE TYPICAL MAINLINE SUPERELEVATION TRANSITION DETAILS FOR ADDITIONAL MEDIAN INFORMATION IN SUPERELEVATED SECTIONS.
6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.
7. SEE ROADWAY PLANS AND SWM PLANS FOR SWM POND AND BMP LOCATIONS.
8. SEE ROADWAY PLANS AND BRIDGE PLANS FOR BRIDGE LOCATIONS.
9. AREAS NOT RECEIVING TOPSOIL SHOULD BE HYDRO SEEDED.
10. ITEMS SHOWN AS DASHED TO BE CONSTRUCTED UNDER SEPERATE CONTRACT.
11. DURING CONSTRUCTION PLACE SUPERPAVE, TYPE B HOT MIX IN 2 EQUAL LIFTS.

P.G.L. - PROFILE GRADE LINE.
P.G.A. - POINT OF GRADE APPLICATION.
P/R - POINT OF ROTATION.
PDGA - POINT OF DITCH GRADE APPLICATION.
PFGA - POINT OF FILL GRADE APPLICATION.

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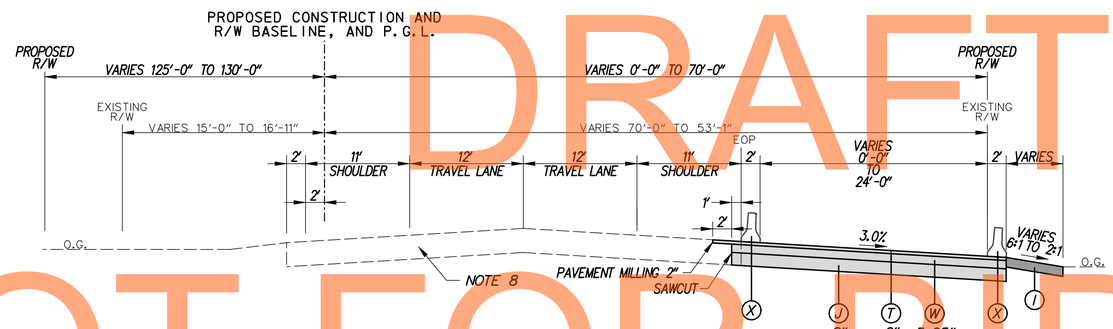
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | NOT TO SCALE | US 301 LEVELS ROAD TO SUMMIT BRIDGE ROAD | CONTRACT T200911303 | BRIDGE NO. | CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLAN | CS-77 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: AG | | SHEET NO. 938 |
| | | | | | CHECKED BY: MT | | TOTAL SHTS. 1256 |




TYPICAL NORMAL SECTION: SUMMIT BRIDGE ROAD TEMPORARY WIDENING

STA. 43+30.06 TO STA. 62+46.06

## LEGEND

- (A) ITEM #209001, BORROW TYPE A
- (B) ITEM #209006, BORROW TYPE F
- (C) ITEM #304502, SOIL CEMENT BASE COURSE
- (D) ITEM #304501, PERMEABLE TREATED BASE, 4"
- (E) ITEM #501006, PORTLAND CEMENT CONCRETE PAVEMENT
- (F) ITEM #715001, PERFORATED PIPE UNDERDRAIN
- (G) ITEM #705002, P.C.C. SIDEWALK, 6"
- (H) ITEM #701016, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-4
- (I) ITEM #733002, TOPSOILING, 6" DEPTH
  ITEM #734013, PERMANENT GRASS SEEDING, DRY GROUND
- (J) ITEM #302007, GRADED AGGREGATE BASE COURSE, TYPE B
- (K) ITEM #735535 SOIL RETENTION BLANKET MULCH, TYPE 5 UNLESS OTHERWISE NOTED IN DT-16
- (L) ITEM #401801, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (CARBONATE STONE)
- (M) ITEM #401810, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
- (N) ITEM #401819, WMA SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (O) ITEM #705001, P.C.C. SIDEWALK, 4"
- (P) ITEM #701010, PORTLAND CEMENT CONCRETE CURB, TYPE 1
- (Q) ITEM #701013, PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 (SEE CONSTRUCTION DETAILS)
- (R) ITEM #401504, HOT MIX, HOT-LAID BITUMINOUS CONCRETE PAVEMENT TYPE C, 2" THICK
- (S) ITEM #401827, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 64-22 (NON-CARBONATED STONE)
- (T) ITEM #401833, WMA SUPERPAVE, TYPE C, 160 GYRATIONS, PG 76-22 (NON-CARBONATE STONE)
- (U) ITEM #401517, STONE MATRIX ASPHALT
- (V) ITEM #401663, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22
- (W) ITEM #401816, WMA SUPERPAVE, TYPE B, 160 GYRATIONS, PG 76-22
- (X) ITEM #743017, PORTABLE BARRIER
- (Y) ITEM #701022, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3
- (Z) ITEM #701011, PORTLAND CEMENT CONCRETE CURB, TYPE 2
- (AA) ITEM #701021, INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2
- (BB) ITEM #760507, PROFILE MILLING, HOT MIX
- (CC) ITEM #760006, PAVEMENT MILLING, HOT MIX, 2" DEPTH
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- (EE) ITEM #401813, WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22

DRAFT
NOT FOR BIDDING
AUGUST 2015

| *FILL SLOPE RATIO CHART | |
|---|---|
| HEIGHT OF EMBANKMENT | SLOPE RATIO |
| 0-5' | 6:1 |
| >5'-10' | 4:1 |
| >10'-15' | 3:1 |
| >15' | 2:1 WITH GUARDRAIL |

NOTES:

1. THE ALGEBRIAC DIFFERENCE BETWEEN THE TRAVEL LANE SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%.
2. SHOULDER CROSS SLOPE ON THE LOW SIDE SHALL BE THE SAME AS THE TRAVEL LANE CROSS SLOPE WHEN SUPERELEVATION IS 4% OR GREATER.
3. SEE GRADES AND GEOMETRICS SHEETS FOR ADDITIONAL INFORMATION ON VARYING CROSS-SLOPE AND PAVEMENT WIDTHS.
4. SEE ROADSIDE GRADING TREATMENT DETAILS FOR CHANGES IN TYPICAL ROADSIDE TREATMENT.
5. SEE TYPICAL MAINLINE SUPERELEVATION TRANSITION DETAILS FOR ADDITIONAL MEDIAN INFORMATION IN SUPERELEVATED SECTIONS.
6. SEE CROSS-SECTIONS FOR ALL VARYING CROSS-SLOPE RATES AND SIDE SLOPE RATES.
7. SEE ROADWAY PLANS AND SWM PLANS FOR SWM POND AND BMP LOCATIONS.
8. SEE ROADWAY PLANS AND BRIDGE PLANS FOR BRIDGE LOCATIONS.
9. AREAS NOT RECEIVING TOPSOIL SHOULD BE HYDRO SEEDED.
10. ITEMS SHOWN AS DASHED TO BE CONSTRUCTED UNDER SEPERATE CONTRACT.
11. DURING CONSTRUCTION PLACE SUPERPAVE, TYPE B HOT MIX IN 2 EQUAL LIFTS.
12. EXISTING PAVEMENT IS 8" HOT-MIX ASPHALT OVER 8.25" PORTLAND CEMENT CONCRETE.

P.G.L. - PROFILE GRADE LINE.
P.G.A. - POINT OF GRADE APPLICATION.
P/R - POINT OF ROTATION.
PDGA - POINT OF DITCH GRADE APPLICATION.
PFGA - POINT OF FILL GRADE APPLICATION.

## SEQUENCE OF CONSTRUCTION

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. INSTALL DRUMS ALONG EDGE OF PHASE 1 CONSTRUCTION AREA.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
4. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
5. CONSTRUCT TEMPORARY DRAINAGE, CONSTRUCT AND PLUG PERMANENT DRAINAGE P520 AND FES512.
6. CONSTRUCT BUNKER HILL TEMPORARY ROAD, TEMPORARY WIDENING, AND TEMPORARY PATH AS SHOWN.
7. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
8. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-1 TRAFFIC CONTROL.

## CONSTRUCTION PHASING LEGEND

- WORK AREA THIS PHASE
- TEMPORARY CONSTRUCTION
- EROSION CONTROL BLANKET
- EXISTING TRAFFIC FLOW ARROW
- TEMPORARY WHITE PAVEMENT MARKING ARROW

## DRAINAGE PIPE SCHEDULE

| NO. | SIZE / TYPE | CLASS | LENGTH | SLOPE | INT. EL. | DIS. EL. |
|---|---|---|---|---|---|---|
| 897 | 18" HDPE | | 300 | 0.0050 | 64.20 | 62.70 |
| 899 | 18" HDPE | | 20 | 0.0100 | 55.45 | 55.26 |
| 900 | 18" HDPE | | 100 | 0.0115 | 58.50 | 57.40 |
| 901 | 15" HDPE | | 50 | 0.0034 | 63.51 | 63.27 |
| 902 | 15" HDPE | | 50 | 0.0015 | 63.49 | 63.31 |
| 903 | 15" HDPE | | 50 | 0.0062 | 62.32 | 62.06 |
| 904 | 15" HDPE | | 50 | 0.0062 | 63.05 | 62.94 |

## STONE CHECK DAM

| NO. | D. AREA | DEPTH | STATION |
|---|---|---|---|
| 300 | 2.27 | 1.00 | 902+27 |
| 301 | 0.56 | 1.00 | 903+30 |
| 302 | 0.59 | 1.00 | 903+73 |
| 303 | 0.40 | 1.00 | 906+16 |
| 304 | 0.28 | 1.00 | 906+36 |
| 305 | 1.06 | 1.00 | 19+06 |
| 306 | 0.31 | 1.00 | 910+46 |
| 307 | 0.50 | 1.00 | 21+24 |

## FLARED END SECTION SCHEDULE

| NO. | SIZE / TYPE | SLOPE | SAFETY GRATE |
|---|---|---|---|
| 896 | 18" HDPE | 0.0050 | NO |
| 897 | 18" HDPE | 0.0050 | NO |
| 898 | 18" HDPE | 0.0100 | NO |
| 899 | 18" HDPE | 0.0100 | NO |
| 900 | 18" HDPE | 0.0115 | NO |
| 901 | 18" HDPE | 0.0115 | NO |
| 902 | 15" HDPE | 0.0340 | NO |
| 903 | 15" HDPE | 0.0340 | NO |
| 904 | 15" HDPE | 0.0015 | NO |
| 905 | 15" HDPE | 0.0015 | NO |
| 906 | 15" HDPE | 0.0062 | NO |
| 907 | 15" HDPE | 0.0062 | NO |
| 908 | 15" HDPE | 0.0062 | NO |
| 909 | 15" HDPE | 0.0062 | NO |

## SILT FENCE

| NO | STATION FROM | STATION TO | LENGTH |
|---|---|---|---|
| 300 | 900+10 | 905+57 | 553 LF |
| 301 | 905+93 | 913+70 | 795 LF |
| 302 | 902+05 | 905+66 | 361 LF |
| 303 | 906+04 | 913+08 | 685 LF |
| 304 | 21+47 | 24+00 | 255 LF |

## SEDIMENT TRAP SCHEDULE

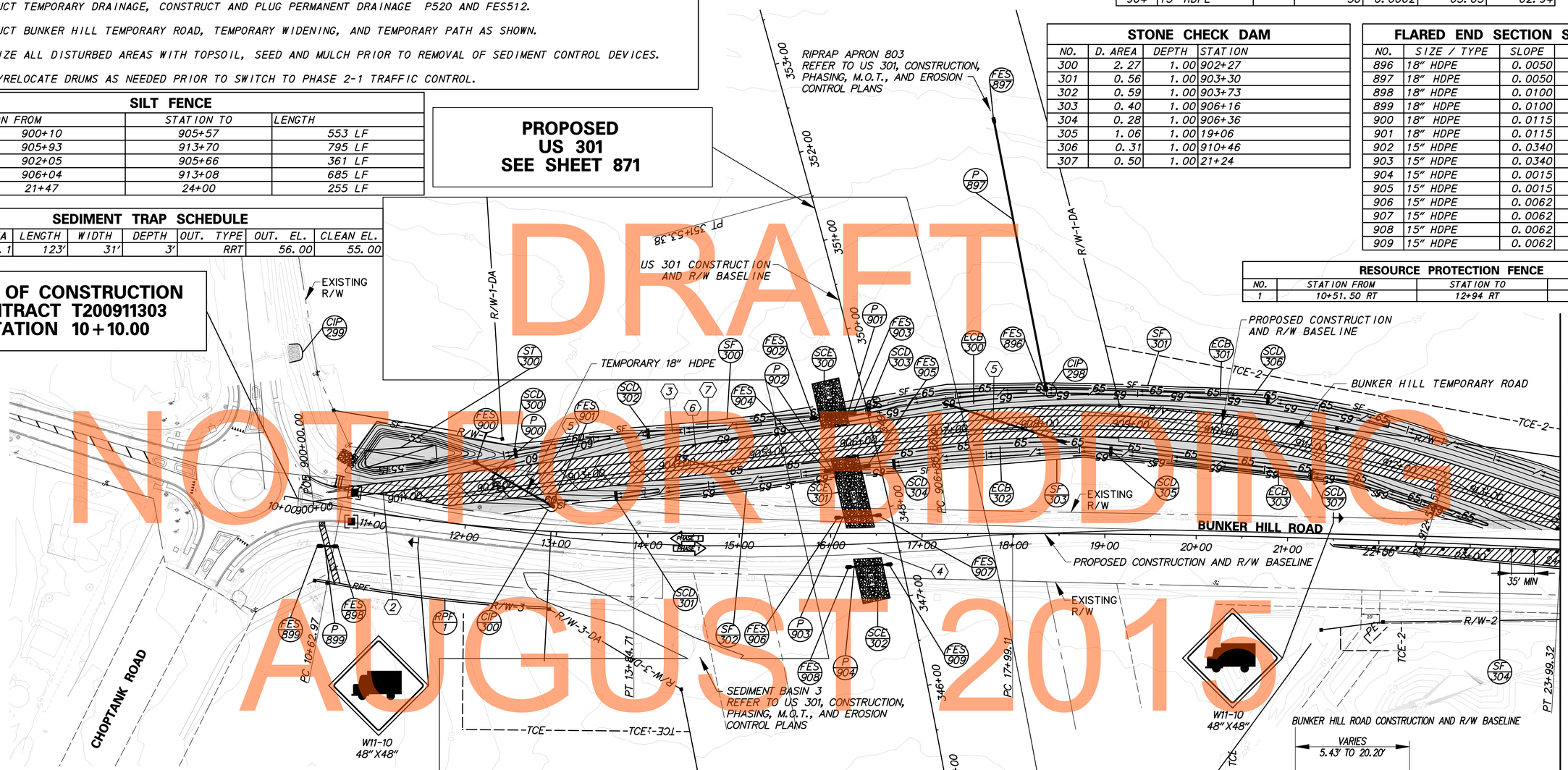
| NO. | D. AREA | LENGTH | WIDTH | DEPTH | OUT. TYPE | OUT. EL. | CLEAN EL. |
|---|---|---|---|---|---|---|---|
| 300 | 2.1 | 123' | 31' | 3' | RRT | 56.00 | 55.00 |

## RESOURCE PROTECTION FENCE

| NO. | STATION FROM | STATION TO | LENGTH |
|---|---|---|---|
| 1 | 10+51.50 RT | 12+94 RT | 254 LF |

**PROPOSED US 301 SEE SHEET 871**

**LIMIT OF CONSTRUCTION CONTRACT T200911303 STATION 10+10.00**




## STABILIZED CONSTRUCTION ENTRANCE

| NO. | STA. | LENGTH | WIDTH |
|---|---|---|---|
| 300 | 905+77 | 50' | 30' |
| 301 | 905+83 | 80' | 30' |
| 302 | 16+41 | 50' | 30' |

## EROSION CONTROL BLANKET

| NO. | SY | LENGTH | WIDTH | TYPE |
|---|---|---|---|---|
| 300 | 3574 | 1300' | 15' | 3 |
| 301 | 761 | 1140' | 6' | 5 |
| 302 | 574 | 860' | 6' | 5 |
| 303 | 2113 | 1100' | 15' | 3 |

## CULVERT INLET PROTECTION

| NO. | D. AREA | STATION |
|---|---|---|
| 298 | 0.72 | 908+10 |
| 299 | 2.40 | 900+00 |
| 300 | 1.49 | 902+60 |

**EXISTING BUNKER HILL ROAD WIDENING**

**STATION 21+50.32 TO STA 24+71.32**

**BUNKER HILL ROAD**

NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLAN. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

**US 301 LEVELS ROAD TO BUNKER HILL ROAD**

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | EM |
| COUNTY | | |
| NEW CASTLE | CHECKED BY: | MT |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1**

| CS-79 |
|---|
| SHEET NO. |
| 940 |
| TOTAL SHTS. |
| 1256 |

## SEQUENCE OF CONSTRUCTION

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. INSTALL DRUMS ALONG EDGE OF PHASE 1 CONSTRUCTION AREA.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
4. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
5. CONSTRUCT TEMPORARY DRAINAGE.
6. CONSTRUCT BUNKER HILL TEMPORARY ROAD, TEMPORARY WIDENING, AND TEMPORARY PATH AS SHOWN.
7. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
8. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-1 TRAFFIC CONTROL.

## CONSTRUCTION PHASING LEGEND

| | |
|---|---|
| | WORK AREA THIS PHASE |
| | TEMPORARY CONSTRUCTION |
| | EROSION CONTROL BLANKET |
| | EXISTING TRAFFIC FLOW ARROW |
| | TEMPORARY WHITE PAVEMENT MARKING ARROW |

## SILT FENCE

| NO | STATION FROM | STATION TO | LENGTH |
|---|---|---|---|
| 305 | 913+70 | 916+97 | 324 LF |
| 306 | 25+00 | 25+05 | 105 LF |
| 307 | 25+14 | 30+22 | 510 LF |

## EROSION CONTROL BLANKET

| NO. | SY | LENGTH | WIDTH | TYPE |
|---|---|---|---|---|
| 304 | 51 | 75' | 6' | 5 |
| 305 | 757 | 300' | 15' | 3 |

## RESOURCE PROTECTION FENCE

| NO | STATION FROM | STATION TO | LENGTH |
|---|---|---|---|
| 300 | 26+80 | 27+14 | 37 LF |
| 301 | 27+49 | 28+71 | 121 LF |
| 302 | 29+02 | 30+10 | 125 LF |

DRAFT
NOT FOR BIDDING
AUGUST 2015

**LIMIT OF CONSTRUCTION**
**CONTRACT T200911303**
**STATION 37+00.00**

**EXISTING BUNKER HILL ROAD WIDENING**
**STATION 24+71.32 TO STATION 27+09.00**

**EXISTING BUNKER HILL ROAD WIDENING**
**STATION 27+09.00 TO STA 30+29.32**

**BUNKER HILL ROAD**

NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLAN. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

**US 301 LEVELS ROAD TO BUNKER HILL ROAD**

| | |
|---|---|
| CONTRACT | T200911303 |
| COUNTY | NEW CASTLE |
| BRIDGE NO. | |
| DESIGNED BY: | EM |
| CHECKED BY: | MT |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 1**

| | |
|---|---|
| | CS-80 |
| SHEET NO. | 941 |
| TOTAL SHTS. | 1256 |

## SEQUENCE OF CONSTRUCTION

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. REMOVE EXISTING STRIPING AS NECESSARY, PLACE TEMPORARY PAVEMENT STRIPING AS SHOWN.
3. REMOVE EXISTING TRAFFIC ISLAND AT TIE-IN OF TEMPORARY ROADWAY.
4. SHIFT TRAFFIC TO THE LANES DESIGNATED FOR PHASE 2-1A.
5. INSTALL DRUMS ALONG EDGE OF PHASE 2-1A CONSTRUCTION AREA.
6. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
7. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
8. CONSTRUCT REMAINDER BUNKER HILL TEMPORARY ROAD AS SHOWN UNDER SHORT TERM LANE CLOSURE AND LANE SHIFT CONFORMING TO TA-10 OF THE DELAWARE MUTCD WITH THE ADDITIONAL FLAGGERS SHOWN. FLAGGERS SHALL CONTROL TRAFFIC FLOW ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. A LEAD FLAGGER SHALL BE DESIGNATED AND RADIO COMMUNICATION SHALL BE USED BY THE FLAGGERS. A SUPPLEMENTAL FLAGGER SHALL BE USED IN THE ROUNDABOUT ISLAND TO HELP DIRECT TRAFFIC. WORK MUST BE COMPLETED BY END OF CONSTRUCTION DAY.
9. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
10. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-1B TRAFFIC CONTROL.

## CONSTRUCTION PHASING LEGEND

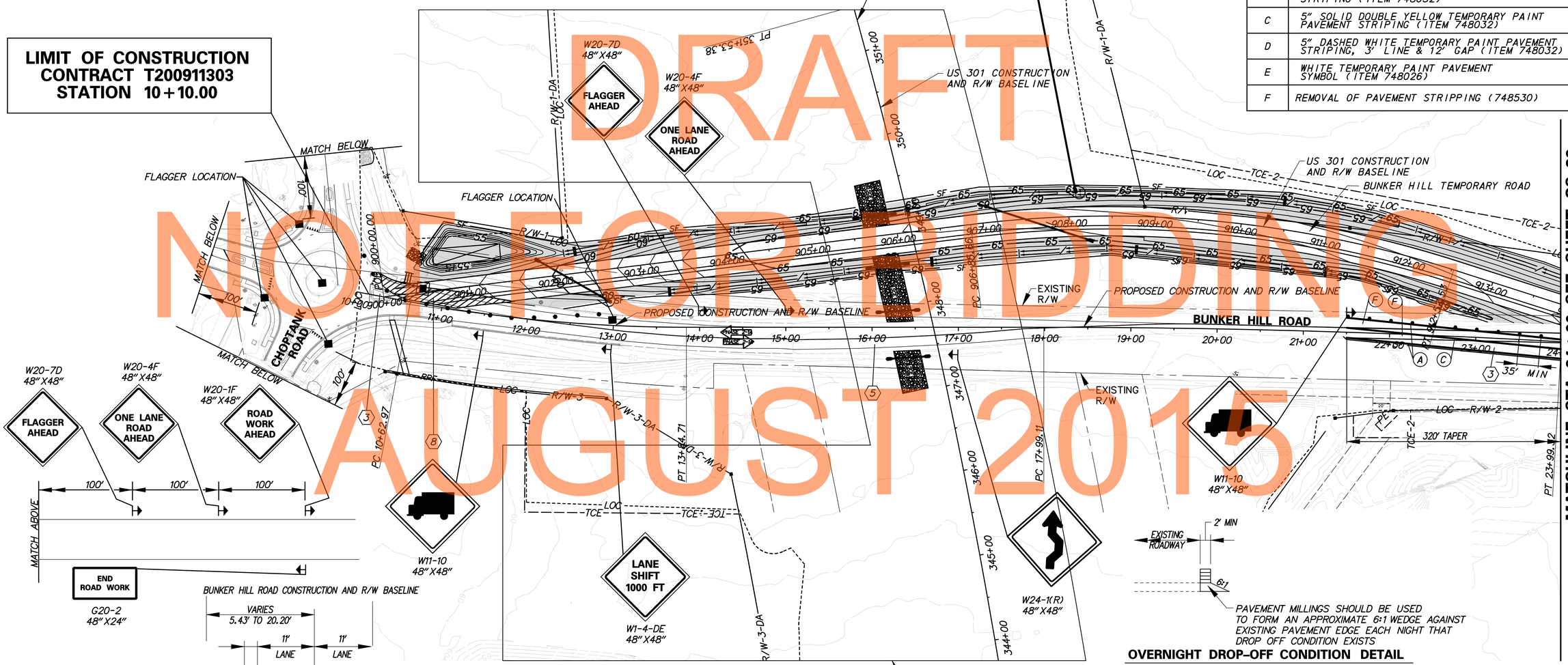
| | |
|---|---|
| | WORK AREA THIS PHASE |
| | TEMPORARY CONSTRUCTION |
| | EROSION CONTROL BLANKET |
| | EXISTING TRAFFIC FLOW ARROW |
| | TEMPORARY WHITE PAVEMENT MARKING ARROW |

## TEMPORARY PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM | QUANTITY |
|---|---|---|
| A | 5" SOLID WHITE TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 500 LF |
| B | 5" SOLID YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 0 LF |
| C | 5" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 500 LF |
| D | 5" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 3' LINE & 12' GAP (ITEM 748032) | 0 LF |
| E | WHITE TEMPORARY PAINT PAVEMENT SYMBOL (ITEM 748026) | 0 SF |
| F | REMOVAL OF PAVEMENT STRIPPING (748530) | 375 SF |

**PROPOSED US 301 SEE SHEET 892**

**LIMIT OF CONSTRUCTION CONTRACT T200911303 STATION 10+10.00**




NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLAN. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

DRAFT
NOT FOR BIDDING
AUGUST 2015

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| | | | | | |
|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO BUNKER HILL ROAD | CONTRACT T200911303 / COUNTY NEW CASTLE | BRIDGE NO. / DESIGNED BY: EM / CHECKED BY: MT |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2-1A**

| CS-81 |
|---|
| SHEET NO. 942 |
| TOTAL SHTS. 1256 |

## SEQUENCE OF CONSTRUCTION

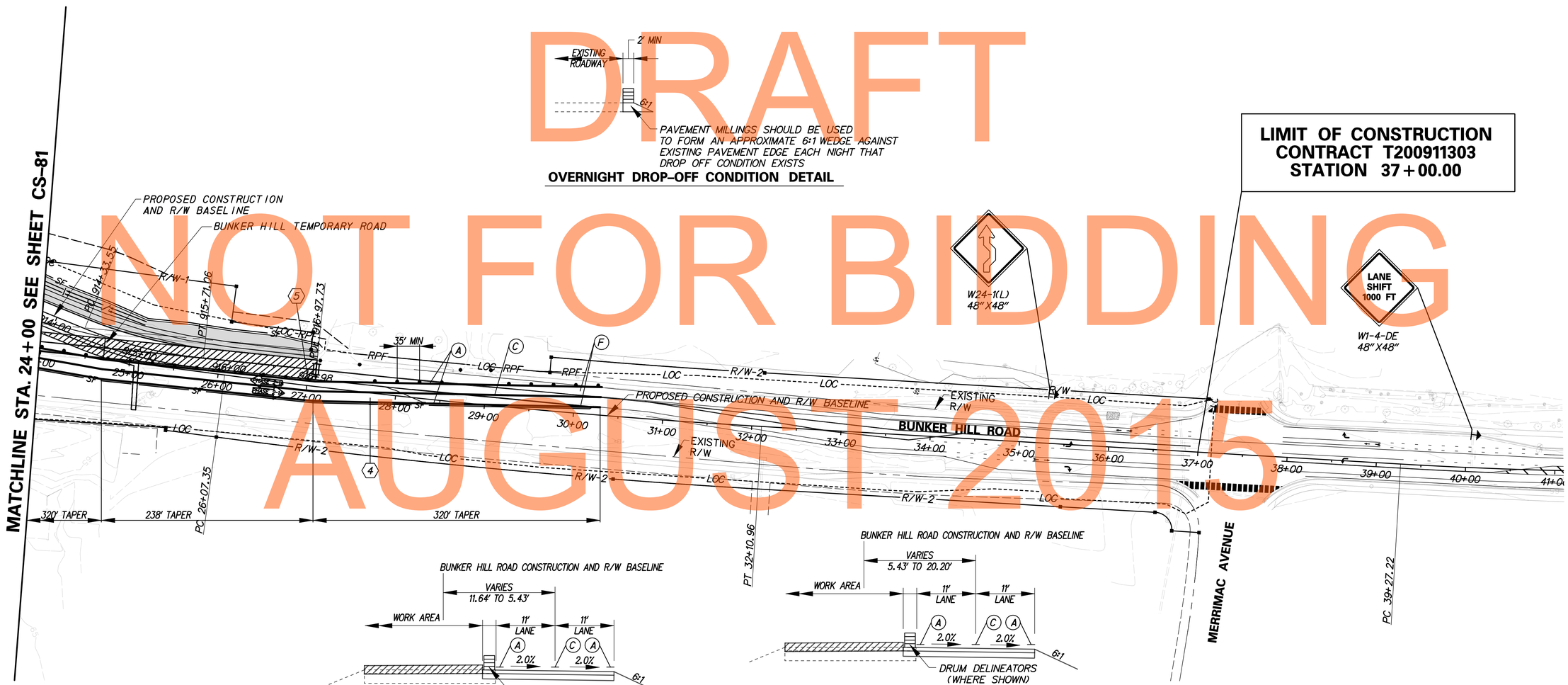
1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. REMOVE EXISTING STRIPING AS NECESSARY, PLACE TEMPORARY PAVEMENT STRIPING AS SHOWN.
3. REMOVE EXISTING TRAFFIC ISLAND AT TIE-IN OF TEMPORARY ROADWAY.
4. SHIFT TRAFFIC TO THE LANES DESIGNATED FOR PHASE 2-1A.
5. INSTALL DRUMS ALONG EDGE OF PHASE 2-1A CONSTRUCTION AREA.
6. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
7. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
8. CONSTRUCT REMAINDER BUNKER HILL TEMPORARY ROAD AS SHOWN UNDER SHORT TERM LANE CLOSURE AND LANE SHIFT CONFORMING TO TA-10 OF THE DELAWARE MUTCD WITH THE ADDITIONAL FLAGGERS SHOWN. FLAGGERS SHALL CONTROL TRAFFIC FLOW ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. A LEAD FLAGGER SHALL BE DESIGNATED AND RADIO COMMUNICATION SHALL BE USED BY THE FLAGGERS. A SUPPLEMENTAL FLAGGER SHALL BE USED IN THE ROUNDABOUT ISLAND TO HELP DIRECT TRAFFIC. WORK MUST BE COMPLETED BY END OF CONSTRUCTION DAY.
9. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
10. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-1B TRAFFIC CONTROL.

## CONSTRUCTION PHASING LEGEND

| | |
|---|---|
| | WORK AREA THIS PHASE |
| | TEMPORARY CONSTRUCTION |
| | EROSION CONTROL BLANKET |
| | EXISTING TRAFFIC FLOW ARROW |
| | TEMPORARY WHITE PAVEMENT MARKING ARROW |

## TEMPORARY PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM | QUANTITY |
|---|---|---|
| A | 5" SOLID WHITE TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 1258 LF |
| B | 5" SOLID YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 0 LF |
| C | 5" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 1258 LF |
| D | 5" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 3' LINE & 12' GAP (ITEM 748032) | 0 LF |
| E | WHITE TEMPORARY PAINT PAVEMENT SYMBOL (ITEM 748026) | 0 SF |
| F | REMOVAL OF PAVEMENT STRIPPING (ITEM 748530) | 944 SF |




NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLANS. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

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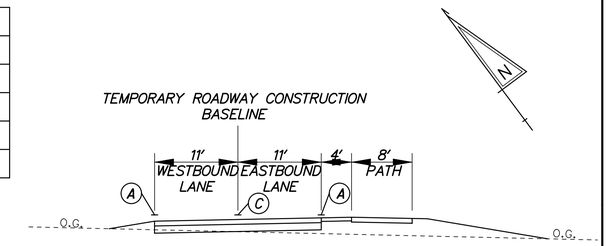
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO BUNKER HILL ROAD | CONTRACT T200911303 | BRIDGE NO. | CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2-1A | CS-82 |
| | | | | COUNTY NEW CASTLE | DESIGNED BY: EM | | SHEET NO. 943 |
| | | | | | CHECKED BY: MT | | TOTAL SHTS. 1256 |

## SEQUENCE OF CONSTRUCTION

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. REMOVE EXISTING STRIPING AS NECESSARY, PLACE TEMPORARY PAVEMENT STRIPING AS SHOWN.
3. SHIFT TRAFFIC TO THE LANES DESIGNATED FOR PHASE 2-1B.
4. INSTALL DRUMS ALONG EDGE OF PHASE 2-1B CONSTRUCTION AREA.
5. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
6. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
7. CONSTRUCT REMAINDER BUNKER HILL TEMPORARY ROAD AS SHOWN UNDER SHORT TERM LANE CLOSURE AND LANE SHIFT CONFORMING TO TA-10 OF THE DELAWARE MUTCD WITH THE ADDITIONAL FLAGGERS SHOWN. FLAGGERS SHALL CONTROL TRAFFIC FLOW ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. A LEAD FLAGGER SHALL BE DESIGNATED AND RADIO COMMUNICATION SHALL BE USED BY THE FLAGGERS. A SUPPLEMENTAL FLAGGER SHALL BE USED IN THE ROUNDABOUT ISLAND TO HELP DIRECT TRAFFIC. WORK MUST BE COMPLETED BY END OF CONSTRUCTION DAY.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
9. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-2 TRAFFIC CONTROL.

## CONSTRUCTION PHASING LEGEND

| | |
|---|---|
| | WORK AREA THIS PHASE |
| | TEMPORARY CONSTRUCTION |
| | EROSION CONTROL BLANKET |
| | EXISTING TRAFFIC FLOW ARROW |
| | TEMPORARY WHITE PAVEMENT MARKING ARROW |

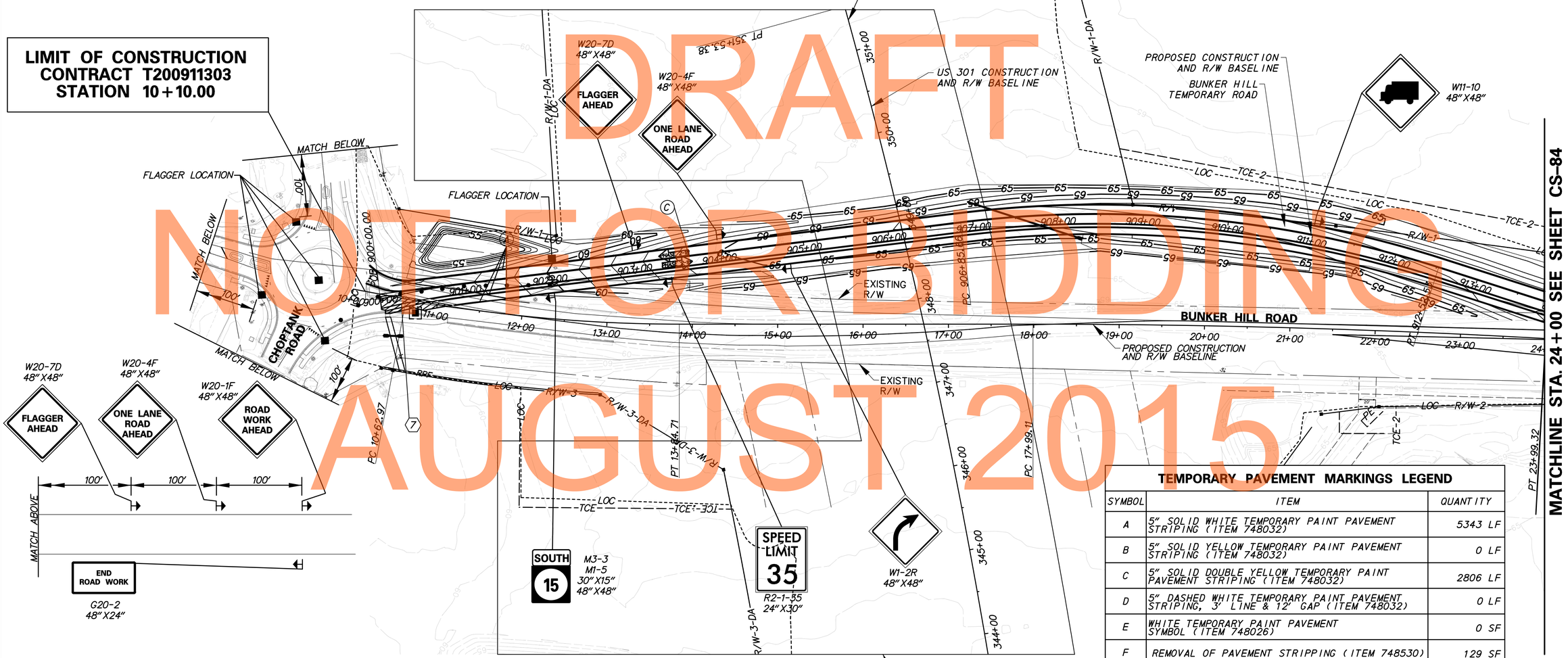



**TEMPORARY ROADWAY**

**STA. 900+00.00 TO STA. 916+97.73**

**PROPOSED US 301 SEE SHEET 892**

**LIMIT OF CONSTRUCTION CONTRACT T200911303 STATION 10+10.00**




## TEMPORARY PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM | QUANTITY |
|---|---|---|
| A | 5" SOLID WHITE TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 5343 LF |
| B | 5" SOLID YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 0 LF |
| C | 5" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 2806 LF |
| D | 5" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 3' LINE & 12' GAP (ITEM 748032) | 0 LF |
| E | WHITE TEMPORARY PAINT PAVEMENT SYMBOL (ITEM 748026) | 0 SF |
| F | REMOVAL OF PAVEMENT STRIPPING (ITEM 748530) | 129 SF |

**BUNKER HILL ROAD**

REFER TO US 301, CONSTRUCTION, PHASING, M.O.T., AND EROSION CONTROL PLANS

NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLAN. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS

SCALE 0 60 120 180 FEET

**US 301 LEVELS ROAD TO BUNKER HILL ROAD**

| CONTRACT | BRIDGE NO. | |
|---|---|---|
| T200911303 | DESIGNED BY: | EM |
| COUNTY | | |
| NEW CASTLE | CHECKED BY: | MT |

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2-1B**

| CS-83 |
|---|
| SHEET NO. |
| 944 |
| TOTAL SHTS. |
| 1256 |

## SEQUENCE OF CONSTRUCTION

1. PLACE ALL PERMANENT WARNING SIGNS AS SHOWN.
2. REMOVE EXISTING STRIPING AS NECESSARY, PLACE TEMPORARY PAVEMENT STRIPING AS SHOWN.
3. SHIFT TRAFFIC TO THE LANES DESIGNATED FOR PHASE 2-1B.
4. INSTALL DRUMS ALONG EDGE OF PHASE 2-1B CONSTRUCTION AREA.
5. WHILE TRUCK CROSSING IS ACTIVE UTILIZE TRAFFIC CONTROL CONFORMING TO TA-14B OF THE DELAWARE MUTCD.
6. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN.
7. CONSTRUCT REMAINDER BUNKER HILL TEMPORARY ROAD AS SHOWN UNDER SHORT TERM LANE CLOSURE AND LANE SHIFT CONFORMING TO TA-10 OF THE DELAWARE MUTCD WITH THE ADDITIONAL FLAGGERS SHOWN. FLAGGERS SHALL CONTROL TRAFFIC FLOW ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. A LEAD FLAGGER SHALL BE DESIGNATED AND RADIO COMMUNICATION SHALL BE USED BY THE FLAGGERS. A SUPPLEMENTAL FLAGGER SHALL BE USED IN THE ROUNDABOUT ISLAND TO HELP DIRECT TRAFFIC. WORK MUST BE COMPLETED BY END OF CONSTRUCTION DAY.
8. STABILIZE ALL DISTURBED AREAS WITH TOPSOIL, SEED AND MULCH PRIOR TO REMOVAL OF SEDIMENT CONTROL DEVICES.
9. REMOVE/RELOCATE DRUMS AS NEEDED PRIOR TO SWITCH TO PHASE 2-2 TRAFFIC CONTROL.

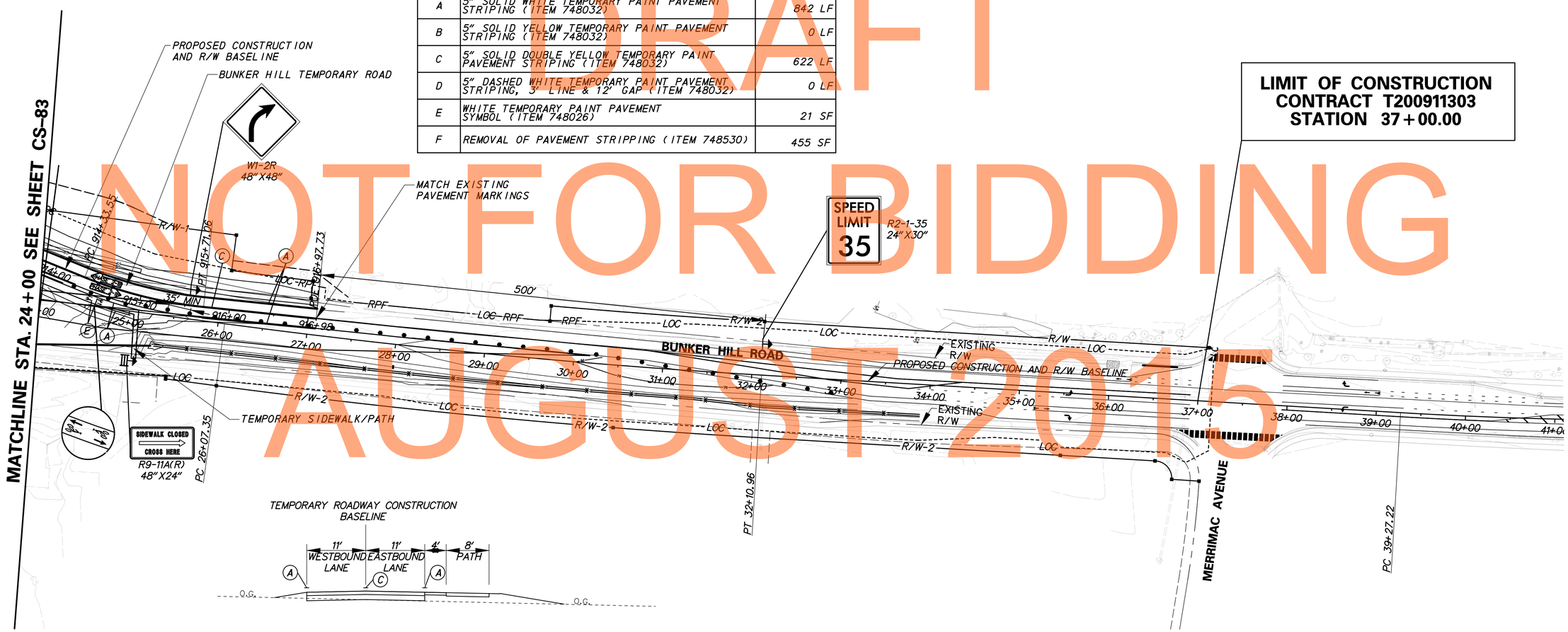
## CONSTRUCTION PHASING LEGEND

| | |
|---|---|
| | WORK AREA THIS PHASE |
| | TEMPORARY CONSTRUCTION |
| | EROSION CONTROL BLANKET |
| | EXISTING TRAFFIC FLOW ARROW |
| | TEMPORARY WHITE PAVEMENT MARKING ARROW |

## TEMPORARY PAVEMENT MARKINGS LEGEND

| SYMBOL | ITEM | QUANTITY |
|---|---|---|
| A | 5" SOLID WHITE TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 842 LF |
| B | 5" SOLID YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 0 LF |
| C | 5" SOLID DOUBLE YELLOW TEMPORARY PAINT PAVEMENT STRIPING (ITEM 748032) | 622 LF |
| D | 5" DASHED WHITE TEMPORARY PAINT PAVEMENT STRIPING, 3' LINE & 12' GAP (ITEM 748032) | 0 LF |
| E | WHITE TEMPORARY PAINT PAVEMENT SYMBOL (ITEM 748026) | 21 SF |
| F | REMOVAL OF PAVEMENT STRIPPING (ITEM 748530) | 455 SF |

DRAFT
NOT FOR BIDDING
AUGUST 2015




**TEMPORARY ROADWAY**

**STA. 900+00.00 TO STA. 916+97.73**

NOTE: FOR BUNKER HILL TEMPORARY ROAD ALIGNMENT SEE HORIZONTAL AND VERTICAL CONTROL PLANS. FOR BUNKER HILL TEMPORARY ROAD TYPICAL SECTIONS SEE SHEET 951-952.

**BUNKER HILL ROAD**

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|---|---|---|---|---|---|---|
| DELAWARE DEPARTMENT OF TRANSPORTATION | ADDENDUMS / REVISIONS | SCALE 0 60 120 180 FEET | US 301 LEVELS ROAD TO BUNKER HILL ROAD | CONTRACT T200911303 / COUNTY NEW CASTLE | BRIDGE NO. / DESIGNED BY: EM / CHECKED BY: MT | CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN – PHASE 2-1B |

CS-84
SHEET NO. 945
TOTAL SHTS. 1256