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## BRIDGE STANDARD DRAWINGS

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INDEX OF SHEETS AND STANDARD DRAWINGS
TYPICAL SECTIONS OF IMPROVEMENT

HWY. 1B - SUPERELEVATED SECTION
STA. 119+39.50 TO STA. 120+31.14

HWY. 1B - TANGENT SECTION
STA. 113+50.00 TO STA. 117+96.50

NOTES:
1. REFER TO CROSS SECTIONS FOR DEVIATIONS FROM NORMAL GEOMETRIC CURVES WHEREBEFORE THE PLANNED SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
2. THE THICKNESS OF AGGREGATE BASE COURSE SHALL BE WITHIN SLOPES WITHOUT THE APPROVAL OF THE ENGINEER.
3. THE FINAL 2" OF SURFACE COURSE IS TO BE PLACED AFTER ALL OTHER COURSES HAVE BEEN LAID. LONGITUDINAL JOINTS SHALL BE AT THE LANE LINES.
4. WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE AT NO ADDITIONAL COST TO THE CONTRACTOR THE FIRST LIFT OF ACHM SURFACE COURSE (1/2") IN LIEU OF AGGREGATE BASE COURSE ON THE SHOULDER.

4. WITH APPROVAL OF THE ENGINEER, THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE AT NO ADDITIONAL COST TO THE CONTRACTOR THE FIRST LIFT OF ACHM SURFACE COURSE (1/2") IN LIEU OF AGGREGATE BASE COURSE ON THE SHOULDER.
SPECIAL DETAILS

SPECIFICATIONS.

AS STATED IN SECTION 210, SUBSECTION 210.09, OF THE STANDARD
SCARIFICATION OF THE EXISTING ASPHALT ROADWAY WILL BE REQUIRED
AND THE EXISTING ASPHALT ROADWAY IS MORE THAN ONE FOOT,
(3) IN LOCATIONS WHERE THE DISTANCE BETWEEN THE PROPOSED SUBGRADE
WAS ONE FOOT OR LESS.

BETWEEN THE EXISTING ASPHALT ROADWAY AND THE PROPOSED SUBGRADE
CALCULATED ON THIS PROJECT AT LOCATIONS WHERE THE DISTANCE
(2) QUANTITIES FOR METHOD OF GRADE RAISE USING ASPHALT WERE
(1) THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

NOTES:

DETAIL FOR TRANSITIONS

100' NORMAL TRANSITION

COLD MILL EXISTING ASPHALT PAVEMENT

P AVEMENT RETAIN

EXISTING ASPHALT

PROPOSED OVERLAY

2 "

OF SECTION

BEGINNING OR END

5'-6"

2'-0"

1'-6"

2'-0"

ADD'L AGGREGATE BASE COURSE (CLASS 7)

VAR. COMP. DEPTH (VAR. TONS/STA.)

GUARDRAIL (TYPE A)

WIDENING FOR GUARDRAIL

* NOTE RED TO END, UNLESS, OR END AND CROSS SECTIONS FOR SLOPE
AGGREGATES SHOWN GUARDRAIL.

ADD'L AGGREGATE BASE COURSE (CLASS 7)

VAR. COMP. DEPTH (VAR. TONS/STA.)

COURSE (1/2") (220 LBS. PER SQ. YD.)

SHOULDER (8' NORMAL)

ADD'L AGGREGATE BASE COURSE (CLASS 7)

VAR. COMP. DEPTH (VAR. TONS/STA.)

GUARDRAIL (TYPE A)

METHOD OF RAISING GRADE

NOTES:

11) THIS DETAIL TO BE USED ONLY WHERE DIRECTED BY THE ENGINEER.

12) QUANTITIES FOR METHOD OF GRADE RAISE USING ASPHALT WERE
CALCULATED ON THIS PROJECT AT LOCATIONS WHERE THE DISTANCE
BEHIND THE EXISTING ASPHALT ROADWAY AND THE PROPOSED SUBGRADE
WAS ONE FOOT OR LESS.

13) IN LOCATIONS WHERE THE DISTANCE BETWEEN THE PROPOSED SUBGRADE
AND THE EXISTING ASPHALT ROADWAY IS MORE THAN ONE FOOT,
SCARIFICATION OF THE EXISTING ASPHALT ROADWAY WOULD BE REQUIRED
AS STATED IN SECTION 210, SUBSECTION 210.09, OF THE STANDARD
SPECIFICATIONS.
SPECIAL DETAILS

1'-6" *20'-0" (TYP.)

2'-0"

SECTION OF APPROACH SLAB

NOTE: TURNOUTS AND PRIVATE DRIVES SHALL BE MODIFIED WHERE NECESSARY TO MEET LOCAL CONDITIONS AS DIRECTED BY THE ENGINEER.

DETAIL FOR TEMPORARY DRIVEWAY TURNOUTS

TO EXISTING DRIVEWAY

9" COMP. DEPTH OR CONFORM AGGREGATE BASE COURSE (CLASS 7)
TEMPORARY EROSION CONTROL DETAILS

STAGE 1

LEGEND

\[ \begin{align*}
\text{\textbullet} & \text{ = Segment Basin} \\
\text{\textbullet} & \text{ = Silt Fence}
\end{align*} \]

TEMPORARY EROSION CONTROL GENERAL NOTES

The quantities and locations of the erosion control measures shown on the plans are estimates; they may be altered if and when required by the Engineer to maximize their effectiveness. These devices are to be installed in an area where they are not disturbing activity in that area itself.

Refer to Section 5 of the Standard Specifications for additional requirements. Erosion control measures to be installed to mitigate erosion may be different from those shown on the plans in this area. It is the Engineer's responsibility to control erosion.

Erosion control measures placed in existing and disturbed areas shall be placed in accordance with the plans and specification for until final stabilization.

SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

Refer to Section 110 of the Standard Specifications for additional requirements.

All erosion control measures to be placed during appropriate stages. These devices shall be left in place until final stabilization.

These devices shall be placed during appropriate stages. These devices shall be left in place until final stabilization.

EROSION CONTROL MEASURES TO BE PLACED DURING APPROPRIATE STAGES.

These devices shall be left in place until final stabilization.

TEMPORARY EROSION CONTROL DETAILS

STAGE 1

BEGIN JOB 110702

L.M. 0.36

STA 113+50.00

END JOB 110702

L.M. 0.36

STA 124+10.00

NOTE:

\[ \begin{align*}
\text{\textbullet} & \text{ = Silt Fence} \\
\text{\textbullet} & \text{ = Sediment Basin}
\end{align*} \]

POLLUTION PREVENTION PLAN SPEC. PROV.

25' NATURAL BUFFER REFER TO "STORM WATER POLLUTION PREVENTION PLAN" SPEC. PROV.
MAINTENANCE OF TRAFFIC DETAILS

CONSTRUCTION SEQUENCE

STAGE I

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON STAGE 2 ADVANCE WARNING DETAILS.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN.

CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON STAGE 1 ADVANCE WARNING DETAILS.

STAGE II

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCTION PRECEDENCE WARNINGS. DRAFT NORTHBOUND TRAFFIC INTO OUTSIDE LANE AND ROUTE SOUTHBOUND TRAFFIC INTO RIDGE LANE OF NORTHBOUND LANES AND THROUGH THE HEAVILY CONSTRUCTED TEMPORARY CROSSOVER.

CONSTRUCT MILESTONE ENHANCEMENT SIGNS AND ENHANCE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1B & HWY. 808 AND REMOVE TEMPORARY CROSSOVER.

LEGEND

- Temporary Traffic Sign
- Traffic Flow Arrows

** LEFT SHOULDER CLOSED
** DO NOT PASS

ADVANCE WARNING SIDEROADS (ALL STAGES)
COUNTY RD. 768
COUNTY RD. 762
COUNTY RD. 750
HWY. 808
HWY. 980
HWY. 1B
COUNTY RD. 768
COUNTY RD. 762
COUNTY RD. 750

ADVANCE WARNING
MAINTENANCE OF TRAFFIC DETAILS

Z-19-2021
MAINTENANCE OF TRAFFIC DETAILS

ADVANCE WARNING

RIGHT LANE CLOSURE
STAGE 2

* NORTHBOUND ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.
** TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVERS AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 1 ADVANCE WARNING DETAILS.

INSTALL STAGE 1 MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCTION SEQUENCE.

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION SEQUENCE.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1 (SB) & (NB) AND AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

INSTALL STAGE 2 ADVANCE WARNING DETAILS.

NOTE:
- MAINTENANCE OF TRAFFIC DEVICES
- CONSTRUCTION SEQUENCE
- ADVANCE WARNING ARROW PANEL AT BEG. OF TAPER
- SOUTHBOUND UNDIVIDED HIGHWAY ONE (1) SIGN REQUIRED
- NORTHBOUND DIVIDED HIGHWAY TWO (2) SIGNS REQUIRED

LEGEND
- TRAFFIC DRUM
- TEMPORARY TRAFFIC SIGN
- TRAFFIC FLOW ARROWS

DIVERSION FOR LT. LANE WORK ZONE

CONSTRUCTION SEQUENCE

STAGE 4

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVERS AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION SEQUENCE.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1 (SB) & (NB) AND REMOVE TEMPORARY CROSSOVER.
CONSTRUCTION SEQUENCE

STAGE 1:
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.
INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2:
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.
INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION OFeway embankment, bridge, and drainage for project as shown in stage 2 maintenance of traffic details.
CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.
CONSTRUCT ROADWAY ENHANCEMENT, BRIDGE, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
RETURN TRAFFIC TO NORMAL PATTERN ON ANY, LB (SB) & (NB) AND REMOVE TEMPORARY CROSSOVER.

LEGEND

TRAFFIC FLOW ARROWS

STAGE 1 - TYPICAL SECTION
MAINTENANCE OF TRAFFIC DETAILS
CONSTRUCTION SEQUENCE

STAGE 1
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

CLEARING AND GRADING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2:
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION PAYMENT WARNINGS, SHIFTS NORTHBOUND TRAFFIC INTO OUTSIDE LANE AND ROUTE OUTBOUND TRAFFIC INTO INNER LANE OF NORTHBOUND LANES AND THROUGH THE NEWLY CONSTRUCTED TEMPORARY CROSSOVER.

CONSTRUCT TEMPORARY ENRESHMENTS, BRIDGE, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

RETURN TRAFFIC TO NORMAL PATTERN ON MAY 18 (SB & NB) AND REMOVE TEMPORARY CROSSOVER.

LEGEND
- STAGE CONTS, AREA
- TRAFFIC FLOW ARROWS
- VERTICAL PANELS
CONSTRUCTION SEQUENCE

STAGE 1
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

CLEARING AND GRAZING OPERATIONS MAY BEGIN WHERE DIRECTED BY THE ENGINEER.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCTION PAYMENT WARNING, SWI5 NORTHBOUND TRAFFIC INTO OUTSIDE LANE AND ROUTE SOUTHBOUND TRAFFIC INTO INNER LANE OF NORTHBOUND LANES AND THROUGH THE NEWLY CONSTRUCTED TEMPORARY CROSSOVER.

CONSTRUCT HIGHWAY ENHANCEMENT, BRIDGE, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1B SB & NB AND REMOVE TEMPORARY CROSSOVER.

STAGE 2: INSTALL MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION PAYMENT WARNING, SWI5 NORTHBOUND TRAFFIC INTO OUTSIDE LANE AND ROUTE SOUTHBOUND TRAFFIC INTO INNER LANE OF NORTHBOUND LANES AND THROUGH THE NEWLY CONSTRUCTED TEMPORARY CROSSOVER.

INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON ADVANCE WARNING DETAILS.

LEGEND
- STAGE CONST. AREA
- TRAFFIC FLOW ARROWS
- TRAFFIC DRUM

STAGE 1 MAINTENANCE OF TRAFFIC DETAILS
CONSTRUCTION SEQUENCE

STAGE 1:
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE
LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.
EARTHWORK OPERATIONS MAY BEGIN IN AND WHERE
SPECIFIED BY THE ENGINEER.
INSTALL MAINTENANCE OF TRAFFIC DEVICES AND
CONSTRUCT TEMPORARY CROSSOVER AND SHIELD IN NORTHBOUND
AND SHIELD FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2:
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE
LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.
INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION
PAVEMENT MARKINGS, SWIT TRAFFIC TO THE OUTSIDE
LANE AND ROUTE SOUINBOUND TRAFFIC INTO INSIDE
LANE AND RETURN TRAFFIC TO NORMAL PATTERN ON HWY 1B (SB & NB) AND
REMOVE TEMPORARY CROSSOVER.
CONSTRUCTION SEQUENCE

STAGE 1
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.
CLEANING AND CLEARING OPERATIONS MAY BEGIN AT THE BEGINNING OF THE SHOWN.
INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVeways IN MEDIAN, AND ENDS FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE STAGE 2 ADVANCE WARNING DETAILS.
INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCTION PAVEMENT MARKINGS, SHIFT THROUGH-MOTOR TRAFFIC INTO OUTSIDE LANE AND MOVE ADJACENT TRAFFIC INTO INTO MIDDLE LANE OF MIDDLE LANE AND THROUGH THE NEWLY CONSTRUCTED TEMPORARY CROSSOVER.
INSTALL BACKWAY ENABLING INSIDE AND OUTFIELD FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
RETURN TRAFFIC TO NORMAL PATTERN ON NTH, 1B EBD, AND REMOVE TEMPORARY CROSSOVER.

LEGEND

- TYPE 3 Barricade
- TRAFFIC DRUM
+ TRAFFIC FLOW ARROWS
- TEMPORARY TRAFFIC SIGN

STAGE 2
MAINTENANCE OF TRAFFIC DETAILS
RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1 B (SB) & (NB) AND AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT ROADWAY EMBANKMENT, BRIDGE, AND DRAINAGE FOR PROJECT Lanes and through the newly constructed temporary crossover.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION
REMOVABLE CONST. PAVEMENT MARKINGS - 6' (DBL. YELLOW)

LEGEND

- CONSTRUCTION AREA
- TRAFFIC FLOW ARROWS
- TEMPORARY TRAFFIC SIGN
- CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, INSTALL MAINTENANCE OF TRAFFIC DEVICES AND DIRECTED BY THE ENGINEER.

REMOVE TEMPORARY CROSSOVER.

REMOVE TEMPORARY CROSSOVER.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1 B (SB) & (NB) AND AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.

CONSTRUCT ROADWAY EMBANKMENT, BRIDGE, AND DRAINAGE FOR PROJECT Lanes and through the newly constructed temporary crossover.

INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION
REMOVABLE CONST. PAVEMENT MARKINGS - 6' (DBL. YELLOW)

LEGEND

- CONSTRUCTION AREA
- TRAFFIC FLOW ARROWS
- TEMPORARY TRAFFIC SIGN
- CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE DIRECTED BY THE ENGINEER.

INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, INSTALL MAINTENANCE OF TRAFFIC DEVICES AND DIRECTED BY THE ENGINEER.

REMOVE TEMPORARY CROSSOVER.

RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1 B (SB) & (NB) AND AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
CONSTRUCTION SEQUENCE

STAGE 1
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN IN THE ADVANCE WARNING DETAILS.
DELETING AND SOURCING OPERATIONS MAY BE NORT AND MORE DIRECTED BY THE ENGINEER.
INSTALL MAINTENANCE OF TRAFFIC DEVICES AND REMOVAL OF PERM. PVMT. MARKINGS IN GENERAL.
AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 1 MAINTENANCE OF TRAFFIC DETAILS.

STAGE 2
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, SHIFT NORTHBOUND TRAFFIC ONTO CENTER LANE AND ROUTE SOUTHBOUND TRAFFIC ONTO MINOR LANE OF NORTHBOUND LINES AND THROUGH THE NEWLY CONSTRUCTED TEMPORARY CROSSOVER,
CONSTRUCT ROADWAY ENHANCEMENT, BRIDGE, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1B SB & NB AND REMOVE TEMPORARY CROSSOVER.
CONSTRUCTION SEQUENCE

STAGE 1
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.
CLEANING AND COLDING OPERATIONS MAY BE COMPLETED IN PHASES DIRECTED BY THE ENGINEER.
INSTALL MAINTENANCE OF TRAFFIC DEVICES AND CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, AND INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

STAGE 2
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
INSTALL STAGE 2 MAINTENANCE OF TRAFFIC DEVICES, AND CONSTRUCTION CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
STAGE 2:
CONSTRUCT TEMPORARY CROSSOVER AND DRIVEWAYS IN MEDIAN, INSTALL MAINTENANCE OF TRAFFIC DEVICES AND DIRECTED BY THE ENGINEER.
CLEARING AND GRUBBING OPERATIONS MAY BEGIN IF AND WHERE SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
INSTALL ADVANCE WARNING SIGNS AND END ROAD WORK SIGNS AT THE LOCATIONS SHOWN ON THE ADVANCE WARNING DETAILS.

STAGE 2:
CONSTRUCT ROADWAY ENHANCEMENTS, BRIDGE, AND DRAINAGE FOR PROJECT AS SHOWN IN STAGE 2 MAINTENANCE OF TRAFFIC DETAILS.
RETURN TRAFFIC TO NORMAL PATTERN ON HWY. 1B SB AND PB AND REMOVE TEMPORARY CROSSOVER.

STAGE 2:
MAINTENANCE OF TRAFFIC DETAILS

LEGEND
+ TRAFFIC FLOW ARROWS
+ TRAFFIC DRUM
+ TEMPORARY TRAFFIC SIGN
PERMANENT PAVEMENT MARKING DETAILS

HWY. 1B (NB)  C.L. HWY. 1B (SB)

PERMANENT PAVEMENT MARKING DETAILS

Hwy. B Project Quantity Totals:

Thermoplastic Pavement Markings

- White 3,180 LFT.
- Yellow 2,930 LFT.

26 White/Red type B raised pavement markers  $83

6" Continuous Thermoplastic
- White edge line
- Yellow edge line

6" Skip White Line Raised Thermoplastic Pavement Markings
- White/Red type II

Thermoplastic Pavement Markings

6" Gap White Line Raised Pavement Markers 80' O.C. (type II)

HWY. 1B (SB) Job No. 110702

Begin Job 110702 STA. 113+50.00

L.M. 0.36

$ REV DATE $
PERMANENT PAVEMENT MARKING DETAILS

WHITE/RED (TYPE II) RAISED PAVEMENT MARKERS = 83
YELLOW/YELLOW (TYPE II) RAISED PAVEMENT MARKERS = 26
6" YELLOW = 6169 LIN. FT.
6" WHITE = 3621 LIN. FT.

HWY. 1B PROJECT QUANTITY TOTALS:

BEgin Job 110702 STA. 113+50.00
E ND Job 110702 STA. 124+10.00

L.M. 0.36

MATCH EXISTING 350' TRANSITION TO

115 + 00
120 + 00
125 + 00
130 + 00
135 + 00
140 + 00
145 + 00
150 + 00
155 + 00

TOTAL 1826illian ft. of Thermo Plastic Pavement Markings

TOTAL 1513illian ft. of Thermo Plastic Pavement Markings
PERMANENT PAVEMENT MARKING DETAILS

HWY. 1B PROJECT QUANTITY TOTALS:

THERMOPLASTIC PAVEMENT MARKINGS
- White 1 (3,500 ft.)
- Yellow 1 (3,500 ft.)
- Yellow/Yellow 1 (26) raised pavement markers
- White/Red 1 (83) raised pavement markers

HWY. 1B PROJECT QUANTITY TOTALS:

THERMOPLASTIC PAVEMENT MARKINGS
- White 1 (3,500 ft.)
- Yellow 1 (3,500 ft.)
- Yellow/Yellow 1 (26) raised pavement markers
- White/Red 1 (83) raised pavement markers

2-19-2021
## ADVANCE WARNING SIGNS AND DEVICES

<table>
<thead>
<tr>
<th>SIGN NUMBER</th>
<th>DESCRIPTION</th>
<th>SIGN SIZE</th>
<th>STAGE 1</th>
<th>STAGE 2</th>
<th>MAXIMUM NUMBER REQUIRED</th>
<th>TOTAL SIGNS REQUIRED</th>
<th>VERTICAL PANELS</th>
<th>TRAFFIC GROUPS</th>
<th>ARMCIRCLES (TYPE E)</th>
<th>ADVANCE WARNING ARROW PANEL</th>
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<tbody>
<tr>
<td>10191</td>
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## CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>STAGE 1</th>
<th>STAGE 2</th>
<th>REMOVAL OF PAVEMENT MARKINGS</th>
<th>CONSTRUCTION PAVEMENT MARKINGS</th>
<th>REMOVABLE PAVEMENT MARKINGS</th>
<th>REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS</th>
<th>RAISED PAVEMENT MARKERS</th>
<th>THERMOPLASTIC PAVEMENT MARKINGS</th>
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<tbody>
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<td>NO. 2</td>
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## GUARDRAIL

<table>
<thead>
<tr>
<th>STATION</th>
<th>STATION</th>
<th>LOCATION</th>
<th>GUARDRAIL (TYPE A)</th>
<th>GUARDRAIL TERMINAL (TYPE B)</th>
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<tbody>
<tr>
<td></td>
<td>STATION</td>
<td>LOCATION</td>
<td>GUARDRAIL (TYPE A)</td>
<td>GUARDRAIL TERMINAL (TYPE B)</td>
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<td>LOCATION</td>
<td>GUARDRAIL (TYPE A)</td>
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## 4" PIPE UNDERDRAIN

<table>
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<tr>
<th>STATION</th>
<th>STATION</th>
<th>LOCATION</th>
<th>4&quot; PIPE UNDERDRAIN</th>
<th>UNDERDRAIN OUTLET PROTECTORS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>STATION</td>
<td>LOCATION</td>
<td>4&quot; PIPE UNDERDRAIN</td>
<td>UNDERDRAIN OUTLET PROTECTORS</td>
</tr>
<tr>
<td></td>
<td>STATION</td>
<td>LOCATION</td>
<td>4&quot; PIPE UNDERDRAIN</td>
<td>UNDERDRAIN OUTLET PROTECTORS</td>
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## CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>STAGE 1</th>
<th>STAGE 2</th>
<th>REMOVAL OF PAVEMENT MARKINGS</th>
<th>CONSTRUCTION PAVEMENT MARKINGS</th>
<th>REMOVABLE PAVEMENT MARKINGS</th>
<th>REMOVAL OF CONSTRUCTION PAVEMENT MARKINGS</th>
<th>RAISED PAVEMENT MARKERS</th>
<th>THERMOPLASTIC PAVEMENT MARKINGS</th>
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<tbody>
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<td></td>
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<td>NO. 1</td>
<td>NO. 2</td>
<td>NO. 3</td>
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<td>INSTALLED</td>
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## GUARDRAIL

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<th>STATION</th>
<th>STATION</th>
<th>LOCATION</th>
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## 4" PIPE UNDERDRAIN

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<th>UNDERDRAIN OUTLET PROTECTORS</th>
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<tbody>
<tr>
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<td>STATION</td>
<td>LOCATION</td>
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<td>UNDERDRAIN OUTLET PROTECTORS</td>
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<td>LOCATION</td>
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<td>UNDERDRAIN OUTLET PROTECTORS</td>
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Note: This is a high traffic volume road as defined in Section 64.25. Standard specifications for highway construction.
### EROSION CONTROL

<table>
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<tr>
<th>Station</th>
<th>Station</th>
<th>Location</th>
<th>Description</th>
<th>Seeding</th>
<th>Lime</th>
<th>Mulch on Cover</th>
<th>Water</th>
<th>Second Section Application</th>
<th>Temporary Seeding</th>
<th>Mulch on Cover</th>
<th>Water</th>
<th>Sandbag Checks</th>
<th>Rock Ditch Checks</th>
<th>Silt Fence</th>
<th>Filter Soak</th>
<th>Sediment Basins</th>
<th>Sediment Removal &amp; Disposal</th>
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<tbody>
<tr>
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<td>10+93</td>
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<tr>
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### APPROACH GUTTERS & SLABS

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<th>Station</th>
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<th>Location</th>
<th>Description</th>
<th>Approach Gutter Slabs (Type B)</th>
<th>IN-RESTORED</th>
<th>APPROACH SLABS (Type C)</th>
<th>IN-RESTORED</th>
<th>APPROACH BASE COURSE (Class 7)</th>
<th>APPROACH BASE COURSE (Class 7)</th>
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### STRUCTURES

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<tr>
<th>Station</th>
<th>Description</th>
<th>Reinforced Concrete Pipe Culvert</th>
<th>Temporary Supports</th>
<th>Drop Irials</th>
<th>Solid Seeding</th>
<th>Water</th>
<th>Std. Own. No.</th>
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<tbody>
<tr>
<td>114+25</td>
<td>120' LF of 1 1/2&quot; I.D. PVC</td>
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<tr>
<td>114+25</td>
<td>120' LF of 1 1/2&quot; I.D. PVC</td>
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### APPROACH RUMBLE STRIPS IN ASPHALT SHOULDERS

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* QUANTITIES ESTIMATED: SEE SECTION 0A-33 OF THE STD. SPECS.

NOTE: THE QUANTITIES SHOWN ARE ESTIMATES AND ARE SUBJECT TO CHANGE BASED ON ACTUAL CONDITIONS ON-SITE.
### Cold Milling Asphalt Paving

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<th>Location</th>
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<th>Base Course (Class 1)</th>
<th>Tack Coat</th>
<th>ACHM Binder Course (2)</th>
<th>ACHM Binder Course (1)</th>
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### ACHM Patching of Existing Roadway

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### Driveways & Turnouts

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<thead>
<tr>
<th>Station</th>
<th>Side</th>
<th>Location</th>
<th>Width</th>
<th>Aggregate Base Course (Class 1)</th>
<th>Tack Coat</th>
<th>Aggregate Binder Course (2)</th>
<th>ACHM Binder Course (1)</th>
<th>Standard Drawings</th>
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<tbody>
<tr>
<td>eins</td>
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### Asphalt Concrete Patching for Maintenance of Traffic

<table>
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<tr>
<th>Description</th>
<th>Tonnage</th>
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### Summary of Characteristics

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<th>Soil Type</th>
<th>Gray</th>
<th>Black</th>
<th>Plasticity</th>
<th>Plastic Index</th>
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<tr>
<td>A-6</td>
<td>150</td>
<td>5.6</td>
<td>10.0</td>
<td>90.0</td>
</tr>
<tr>
<td>B-1</td>
<td>150</td>
<td>5.6</td>
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<tr>
<td>B-2</td>
<td>150</td>
<td>5.6</td>
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</table>

### Notes

- Soil characteristics tabulated above are representative at the location of the sample and from surface indications at the point where the only data are shown for information only. The State will not be responsible for variations in the soil characteristics and/or extent of the same differing from the above tabulations.
- "NP" = Non-Plastic

###基地和表层

<table>
<thead>
<tr>
<th>Station</th>
<th>Location</th>
<th>Length</th>
<th>Aggregate Base Course (Class 1)</th>
<th>Tack Coat</th>
<th>ACHM Binder Course (2)</th>
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</thead>
<tbody>
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### 总量

<table>
<thead>
<tr>
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## SCHEDULE OF BRIDGE QUANTITIES - JOB 110702

<table>
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<tr>
<th>BRIDGE NO.</th>
<th>NAME BARE TITLE</th>
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<th>ITEM NUMBER</th>
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<th>801</th>
<th>802</th>
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### Notes:
- **07/2020**
- **B110702x1_Qx1.dgn**
- **No Scale**
### SUMMARY OF QUANTITIES

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<tr>
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<td>1002</td>
<td>REMOVAL AND DISPOSAL OF DREDGES</td>
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### REVISIONS

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>SHEET NUMBER</th>
</tr>
</thead>
</table>

SUMMARY OF QUANTITIES AND REVISIONS

---

[Signature]

[Stamp]
SURVEY CONTROL DETAILS

P.T. = 28+42.39
P.C. = 24+34.54
L = 407.86'
T = 204.01'
P.I. = 26+38.55
C.L. HWY. 1B MOT
1102.23'
N0°08'18"
3 5 + 0 0

30+00

35+60


LIVE LOADING: HL-93

SEISMIC ZONE: 4

SITE CLASS: E

GEOTECHNICAL: Class 1 Protective Surface Treatment shall be applied to the roadway surface and to the roadway shoulder.

MAINTENANCE OF TRAFFIC: See Roadway Plans.

MATERIALS AND STRENGTHS:

- Class 1 Protective Surface Treatment
- Standard Details for Bridge Traffic Rail Type SSTR36
- Type C1 Approach Slabs
- Type Special 1 Approach Gutters
- Details of 69'-0" Integral W-Beam Span
- Details of End Bents
- Protective Surface Treatment: Class 1 Protective Surface Treatment shall be applied to the roadway surface and to the roadway shoulder.

SEISMIC OPERATIONAL CLASSIFICATION: Other

PROTECTIVE SURFACE TREATMENT: Class 1 Protective Surface Treatment shall be applied to the roadway surface and to the roadway shoulder.

MATERIALS AND STRENGTHS:

- Class S(AE) Concrete (superstructure)
- Concrete Slab with 14" ACHM overlay (2 spans total) supported by concrete pier wall and concrete abutments
- Plans of the existing bridge

SEISMIC OPERATIONAL CLASSIFICATION: Other

SITE CLASS: E

ELEVATION

PLAN

The Contractor shall excavate the existing embankment as shown at both ends of the bridge of Plan No. 55001. Approximate 150 cubic yards of excavation, clearing, and filling will be required.

The Contractor shall excavate the existing embankment as shown at both ends of the bridge of Plan No. 55001. Approximate 150 cubic yards of excavation, clearing, and filling will be required.

For General Notes: Hot Mix Data, Vehicular Corne Grade, and Cross Slope Traverse

Note: Sections shown are along C.L. Construction, Elevations shown are actual top of deck elevation at C.L. Bridge.

Note: Elevations shown are along C.L. Construction, Elevations shown are actual top of deck elevation at C.L. Bridge.

For N/A Data and Guardrail Details, See Roadway Plans.

For N/A Data and Guardrail Details, See Roadway Plans.

REVISED DATE: 02-19-2021

EC: 02-19-2021

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For N/A Data and Guardrail Details, See Roadway Plans.
Contractor must obtain approval from the Engineer for any deviations from the pouring sequence shown. Any railing pours made before the entire slab unit has been placed must be approved by the Engineer. The Concrete diaphragms shall be poured monolithically with the deck.

Pour(s) 2 can be placed before Pour(s) 2 is placed. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between adjacent pours.
Pours with the same number may be placed simultaneously or separately. All Pour(s) 1 must be placed before Pour(s) 2 can be placed. A minimum of 48 hours shall elapse between the end of a pour and the start of the next pour. A minimum of 72 hours shall elapse between adjacent pours.  

Partial depth poured joint at this location. (Stop 1'-4" above top of slab)
Note:
See Roadway Plans for guardrail locations.
For additional rail details, see Std. Dwg. No. 55070.

TABLE OF VARIABLES

Elev. "A" 240.60 242.82

SHEET 4 OF 4

THREE DIMENSIONAL VIEW OF RAIL & END BENT

VIEW C-C

VIEW D-D

VIEW X-X

VIEW W-W

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For Std. Dwg. No. 55070

For additional rail details, see Std. Dwg. No. 55070.

See Roadway Plans for guardrail locations.

Note:
STA. 105+00 TO STA. 107+17
CROSS SECTIONS

6.9 %
4:1

235.47
236.99
237.49

6.8 %
4:1

233.67
235.22
235.63
236.67
236.94
236.50

AREA CUT = 3 SQ. FT.
AREA FILL = 32 SQ. FT.

VOLUME CUT = 9 CU. YD.
VOLUME FILL = 176 CU. YD.

STA. 15+10.08
C.L. TEMP. CROSSOVER

STA. 16+15.05
C.L. TEMP. CROSSOVER

STA. 17+20.32
C.L. TEMP. CROSSOVER

235.87
237.22
232.57
235.60
237.04
237.67

STA. 17+37.96
C.L. TEMP. CROSSOVER

STA. 18+00.00
C.L. TEMP. CROSSOVER

STA. 19+34.68
C.L. HWY. 1B (SB) STA. 109+02.23, 79.09 RT. =

AREA CUT = 10 SQ. FT.
AREA FILL = 11 SQ. FT.

VOLUME CUT = 37 CU. YD.
VOLUME FILL = 20 CU. YD.

STA. 105+00 TO STA. 107+17

TEMPORARY CROSSOVER

WORKSPACE:
Leonard Speed
ARDOT
12:53:59 PM
2/19/2021
14401
Leonard.Speed@mbakerinc.com

F.L. IN 232.22
54'
67'
75'
76'
END C.L. TEMP. CROSSOVER STA. 19+34.68
STA 119+03.00 END BRIDGE

STA 118+87.77 BRIDGE TOE OF SLOPE

HWY 1B

24'

EXISTING LANES

215 220 225 230 235 240 245 250

215 220 225 230 235 240 245 250

220 225 230 235 240 245 250

235.82 235.82 235.73

AREA FILL = 0 SQ. FT.

VOLUME FILL = 0 CU. YD.

AREA CUT = 54 SQ. FT.

AREA FILL = 554 SQ. FT.

AREA CUT = 123 SQ. FT.

AREA FILL = 476 SQ. FT.

AREA CUT = 75 SQ. FT.

VOLUME CUT = 7 CU. YD.

VOLUME FILL = 37 CU. YD.

AREA FILL = 113 SQ. FT.

VOLUME FILL = 26 CU. YD.

VOLUME FILL = 1851 CU. YD.

WORKSPACE: Leonard Speed

ARDOT

12:54:01 PM

2/19/2021

$ $ REV DATE $ $ 

REVISED DATE:
GENERAL NOTES

These GENERAL NOTES are applicable unless otherwise shown in the Plans, Details, Special Provisions, or Supplemental Specifications.

CONSTRUCTION SPECIFICATIONS:

Arkansas State Highway and Transportation Department


DESIGN SPECIFICATIONS:

See Bridge Manual.

SUPERSTRUCTURE NOTES:

MATERIAL AND CONSTRUCTION NOTES:

Class S3C Concrete

Class S3C GGBS, 50%, 45# or 33#, Type IV

Class VCC, GGBS, 50%, 95# or 75#, Type V

Structural Steel:

Grade 50 or 36 or 50, Type A or AL

Grade 490, HSS 360, HSS 420

Grade 90, HSS 500, HSS 550

Structural Steel:

Grade 70 or 60 or 490, HSS 360, HSS 420

Grade 90, HSS 500, HSS 550

See Pre-Design Details for Geometric and Structural Steel.
METHOD OF INSTALLATION OF GUARDRAIL AT LESS THAN FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

METHOD OF INSTALLATION OF GUARDRAIL AT FULL SHOULDER WIDTH BRIDGES USING GUARDRAIL TERMINAL (TYPE 2)

METHOD OF INSTALLATION OF GUARDRAIL USING GUARDRAIL TERMINAL (TYPE I) (FULL SHOULDER WIDTH OR LESS BRIDGES)

LEGEND

- TYPE I DEMAR GUARDRAIL TERMINAL
- GUARDRAIL TERMINAL (TYPE I)
DETAILS OF WIDENING FOR GUARDRAIL

METHOD OF INSTALLATION OF GUARDRAIL AT FIXED OBSTACLE
THREE BEAM GUARDRAIL CONNECTION AT BRIDGE ENDS

GENERAL NOTES:

1. The type of guardrail shown for this use is the three beam type. The design details shall be in accordance with the Arkansas DOT Standard Details for Guardrails.

2. The FRP guardrail shown is to be connected to the metal portal frame and subsequently to the guardrail frame system. The FRP guardrail shall be a minimum of 2 inches thick and shall be fabricated to the exact dimensions shown in the drawing. The FRP guardrail shall be installed in accordance with the manufacturer's instructions.

3. The FRP guardrail components are made of FRP materials and shall be protected from vandalism and weathering. The FRP guardrail shall be painted with a high-quality, durable paint and shall be maintained in accordance with the Arkansas DOT Standard Details for Guardrails.

4. The FRP guardrail shall have a thickness of 2 inches and shall be a minimum of 2 inches thick. The FRP guardrail shall be painted with a high-quality, durable paint and shall be maintained in accordance with the Arkansas DOT Standard Details for Guardrails.
CONSTRUCTION SEQUENCE

1. INSTALL THE CORRUGATED PIPE UNDERGROUND ON THE SITE WHERE IT WILL BE USED. INSTALL THE CORRUGATED PIPE IN SECTIONS NOT LONGER THAN 100 FEET.

NOTES:
- Structural backfill and structural bedding material will not be paid for separately. But compensation will be included in the price bid per linear foot of metal pipe.

EQUIVALENT METAL THICKNESSES AND GAUGES

<table>
<thead>
<tr>
<th>Steel</th>
<th>Thickness in Inches</th>
<th>Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc coated</td>
<td>0.062</td>
<td>23</td>
</tr>
<tr>
<td>Unculated</td>
<td>0.079</td>
<td>22</td>
</tr>
<tr>
<td>Aluminum</td>
<td>0.069</td>
<td>25</td>
</tr>
</tbody>
</table>

GENERAL NOTES

- The pipe quality and strength shall comply with American Standard Association (ASA) A66.1. The pipe shall be made of a material that is resistant to corrosion and deterioration.
- The pipe shall be tested for leak tightness and shall be free from defects that may impair its serviceability.
- The pipe shall be supplied with a warranty that is acceptable to the purchaser.
- The pipe shall be installed in accordance with the manufacturer's instructions.

EMBANKMENT AND TRENCH INSTALLATIONS

1. Structural backfill and bedding material shall be compacted to 95% of the maximum density as specified by the manufacturer.
2. Backfill shall be compacted to 95% of the maximum density as specified by the manufacturer.
3. Installation shall be made in accordance with the manufacturer's instructions.
4. The pipe shall be installed in accordance with the manufacturer's instructions.

ARKANSAS STATE HIGHWAY COMMISSION

Metal Pipe Culvert Fill Heights & Bedding
Standard Drawing PCM-1

Date: [Redacted]
Revision: [Redacted]
MINIMUM TRENCH WIDTH
BASED ON FILL HEIGHT "H"

<table>
<thead>
<tr>
<th>Trench Depth &quot;d&quot;</th>
<th>3/4&quot;</th>
<th>1 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
<td>4&quot;</td>
<td>4&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>8&quot;</td>
<td>8&quot;</td>
</tr>
</tbody>
</table>

MINIMUM COVER FOR CONSTRUCTION LOADS

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Minimum Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>2' 6&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>3' 0&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>3' 6&quot;</td>
</tr>
</tbody>
</table>

MULTIPLE INSTALLATION OF HIGH DENSITY POLYETHYLENE PIPES

CONSTRUCTION SEQUENCE
1. Place structural drainage material, do not compact.
2. Install pipe to grade.
3. Compact structural drainage outside the inside limit of the pipe.
4. The structural drainage shall be covered and compacted to
   - The inside limit of the pipe.
   - The elevation of the bottom of the pipe.
   - The surface shall be compacted.

GENERAL NOTES
1. The minimum cover shall be measured from top of pipe to top of the
   - The minimum cover shall be measured from top of pipe to top of the
   - The minimum cover shall be measured from top of pipe to top of the

LEGEND:
- Structural drainage material
- Unbroken soil

ARKANSAS STATE HIGHWAY COMMISSION
PLASTIC PIPE CULVERT
(HIGH DENSITY POLYETHYLENE)
STANDARD DRAWING PCP-1
SILT FENCE (E-10)

DEPRESSED FRAME

DEPRESSED FRAME

SECTION A-A

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Silt fence shall be installed in accordance with the plans and specifications of the project.

2. The fence material shall be compatible with the environment.

3. The fence shall be constructed in accordance with the specifications of the project.

SAND BAG DITCH CHECK (E-51)

APPROX. AS Shown

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Sand bags shall be arranged in such a manner as to provide adequate support.

2. The arrangement of sand bags shall be in accordance with the plans and specifications of the project.

3. The sand bags shall be placed in such a manner as to provide a uniform distribution of weight.

ROCK DITCH CHECK (E-52)

APPROX. AS Shown

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Rock shall be placed in such a manner as to provide adequate support.

2. The arrangement of rock shall be in accordance with the plans and specifications of the project.

3. The rock shall be placed in such a manner as to provide a uniform distribution of weight.

FILTER SOCK ALONG SLOPE (E-31)

APPROX. AS Shown

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Filter sock shall be installed in accordance with the plans and specifications of the project.

2. The filter sock shall be compatible with the environment.

3. The filter sock shall be constructed in accordance with the specifications of the project.

FILTER SOCK DRAINAGE PROTECTION (E-15)

APPROX. AS Shown

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Filter sock drainage shall be installed in accordance with the plans and specifications of the project.

2. The filter sock drainage shall be compatible with the environment.

3. The filter sock drainage shall be constructed in accordance with the specifications of the project.

DROPSILT FENCE BARRIER (E-20)

APPROX. AS Shown

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION I-I

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SECTION N-N

SECTION O-O

SECTION P-P

SECTION Q-Q

SECTION R-R

SECTION S-S

SECTION T-T

SECTION U-U

SECTION V-V

SECTION W-W

SECTION X-X

SECTION Y-Y

SECTION Z-Z

NOTES

1. Bales shall be arranged in such a manner as to provide adequate support.

2. The arrangement of bales shall be in accordance with the plans and specifications of the project.

3. The bales shall be placed in such a manner as to provide a uniform distribution of weight.

ARMS STATE HIGHWAY COMMISSION
TEMPORARY EROSION CONTROL DEVICES
STANDARD DRAWING TEC-1
CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE
1. Place temporary controls over cut fences, erosion ditches, and erosion control devices.
2. Perform clearing and grubbing operation.

EXCAVATION

GENERAL NOTE
All cut slopes shall be denoted, prepared, seeded, and mulched as the final project. Cut slopes shall be eroded and stabilized in equal increments not to exceed 20 feet measured vertically.

CONSTRUCTION SEQUENCE
1. Excavate and stabilize Interception ditches and/or diversion ditches.
2. Perform Phase 1 excavation, place permanent or temporary seeding.
3. Perform Phase 2 excavation, place permanent or temporary seeding.
4. Perform final phase of excavation, place permanent or temporary seeding. Remove erosion control devices as required.

EMBANKMENT

GENERAL NOTE
All embankment slopes shall be denoted, prepared, seeded, and mulched as the final project. Slopes shall be eroded and stabilized in equal increments not to exceed 20 feet measured vertically.

CONSTRUCTION SEQUENCE
1. Construct Embankment with permanent or temporary erosion control devices as specified.
2. Place Phase 1 Embankment with permanent or temporary erosion control devices as specified.
3. Place Phase 2 Embankment with permanent or temporary erosion control devices as specified.
4. Place final Phase of Embankment with permanent or temporary erosion control devices as specified. Remove erosion control devices as required.

ARKANSAS STATE HIGHWAY COMMISSION
TEMPORARY EROSION CONTROL DEVICES
STANDARD DRAWING TEC-3