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<th>SHEET NO(S)</th>
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NEW OVERHEAD STRUCTURE

- SO1258B 067

NEW OVERHEAD STRUCTURE

- SO1258A 067
- REMOVE SC1256 067

NEW SIGN STRUCTURE

- REPLACES SO1259 067

EXISTING SIGN STRUCTURE

- REMOVAL SO1260 067

NEW SIGN STRUCTURE

- REPLACES SO1261 067
- REPLACES SO1257K 067

NOT TO SCALE

SR 1 TYBOUTS

LEFT EXIT COMPLIANCE
NOT TO SCALE

SR 1 TYPHOUS LEFT EXIT COMPLIANCE
SEQUENCE OF CONSTRUCTION:

1. Install hot devices in accordance with DELDOT MUTCD standards. For construction activities adjacent to the outside shoulders, use shoulder closure detail on sheet 14 as guidance. Additional cases may be required based on field conditions.

2. Install erosion and sediment control measures as shown.

3. Remove guardrail and not in curb to the extents shown in the plans.

4. Perform excavations for drilled shaft to the dimensions and elevations shown in plans.

5. Perform remaining construction activity in work area as per plans, including placing new sign structure, removing existing ground mounted sign and replacing guardrail to match existing.

6. Installation of proposed sign structure shall be restricted to nighttime hours only. Rolling road blocks in accordance with DELDOT MUTCD standard typal application.

7. Existing ground mounted sign may not be removed until after the new sign structure is installed and accepted.

8. Complete all remaining work including full restoration of area to its original condition, roadway and crossings.

9. Remove temporary erosion and sediment control devices after vegetation has stabilized. All disturbed areas in accordance with these plans and as directed by the engineer.

10. Remove all hot devices including temporary signs and reopen the roadway/shoulder.

11. All existing signs to remain unless otherwise noted.
SEQUENCE OF CONSTRUCTION

1. Install outside shoulder marker devices in accordance with DelDOT MUTCD standards. For construction activities adjacent to the outside shoulders, use shoulder closure details on Sheet M as guidance. Additional night cases may be required based on field conditions.

2. Install erosion and sediment control measures as shown.

3. Remove guardrails and hot mix curbs to the extents shown in the plans.

4. Perform excavations for drilled shaft to the dimensions and elevations shown in plans.

5. Perform remaining construction activity in work area as per plans, including placing new sign structure, removing existing overhead trusses, outside shoulder upflush, outside shoulder foundation, and replacing guardrail to match existing.

6. Installation of proposed sign structure shall be restricted to nighttime hours only. Rolling road blocks in accordance with DelDOT MUTCD standard typical application.

7. Existing sign structure may not be removed until after the new replacement sign structure is installed and accepted unless otherwise approved by the Engineer.

8. Complete all remaining work including full restoration of area to its original condition, roadway repair, and grading.

9. Remove temporary erosion and sediment control devices after vegetation has stabilized all disturbed areas in accordance with these plans and as directed by the Engineer.

10. Remove all NTS devices including temporary signs and reopen the roadway/shoulder.

11. Install guardrail as shown in accordance with DelDOT MUTCD standards. For construction activities adjacent to the inside shoulder, use shoulder closure details on Sheet M as guidance. Additional night cases may be required based on field conditions.

12. Install remaining construction activity in work area as per plans, including removing existing overhead upflush and foundation, replacing existing guardrail, and removal of existing guardrail.

13. Existing northbound guardrails shall remain until proposed median guardrail has been installed.

14. Remove all NTS devices including temporary signs and reopen the roadway/shoulder.

15. All existing signs shall remain unless otherwise noted.

GUARDRAIL SCHEDULE

<table>
<thead>
<tr>
<th>NO</th>
<th>ITEM DESCRIPTION</th>
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<th>LENGTH</th>
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<td>28 LF</td>
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NOTES: All remaining stations are approximate. Exact locations are to be determined by the Engineer in the field.

A = Offset alternating as per standard details
B = Attach to PCC barrier
SEQUENCE OF CONSTRUCTION

1. INSTALL INSIDE SHOULDER M.O.T. DEVICES IN SOUTHBOUND DIRECTION IN ACCORDANCE WITH DELOIT M.O.T. STANDARDS. FOR CONSTRUCTION ACTIVITIES ADJACENT TO THE INSIDE SHOULDER, USE SHOULDER CLOUSURE GATES ON SIXTY M AS GUIDANCE. ADDITIONAL M.O.T. CASES MAY BE REQUIRED BASED ON FIELD CONDITIONS.

2. REMOVAL OF EXISTING SIGN STRUCTURE OVERHEAD TRUSS SHALL BE RESTRICTED TO NIGHTTIME Hours ONLY. ROLLING ROAD BLOCKS ARE IN ACCORDANCE WITH DELOIT M.O.T. STANDARDS. TYPICAL APPLICATION TA-36H SHALL BE USED FOR SHOULDER CLOSURES. THE CONTRACTOR SHALL COORDINATE WITH DELOIT CONSTRUCTION AND TRAFFIC SAFETY AS TO THE DURATION AND WORK HOURS FOR THE ROLLING ROAD BLOCKS.

3. PERFORM REMAINING CONSTRUCTION ACTIVITY IN WORK AREA AS PER PLANS, INCLUDING REMOVAL OF EXISTING OVERHEAD UPRIGHT AND FOUNDATION AND REPLACING EXISTING GUARDRAIL AS SHOWN IN PLAN VIEW PROVIDING 24 LF UNTO EXISTING.

4. EXISTING NORTHBOUND GUARDRAIL SHALL REMAIN UNTIL PROPOSED MEDIAN GUARDRAIL HAS BEEN INSTALLED.

5. EXISTING SIGN STRUCTURE MAY NOT BE REMOVED UNTIL AFTER THE INSTALLATION OF NEW REPLACEMENT SIGN STRUCTURE SO 12569 IS INSTALLED AND ACCEPTED.

6. COMPLETE ALL REMAINING WORK INCLUDING FULL RESTORATION OF AREA TO ITS ORIGINAL CONDITION, ROADWAY REPAIR, AND GRADING.

7. REMOVE ALL M.O.T. DEVICES INCLUDING TEMPORARY SIGNS AND REOPEN THE ROADWAY/SHOULDER.

8. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED.

NOTES:

B = ATTACH TO P.C.C. BARRIER
A = OFFSET ATTENUATORS AS PER STANDARD DETAILS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
B = OFFSET ATTENUATORS AS PER STANDARD DETAILS
A = ATTACH TO P.C.C. BARRIER

GUARDRAIL SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>ITEM Description / Type</th>
<th>Begin Sta.</th>
<th>Offset</th>
<th>Length</th>
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NOTES: All beginning stations are approximate. Exact locations are to be determined by the engineer in the field.
A = Offset attenuators as per standard details
B = Attach to P.C.C. Barrier
1. Install new devices in accordance with DelDOT MTD standards. For construction activities adjacent to the outside shoulders, use shoulder template B-6 until the new replacement sign structure is installed and accepted. Note that the shoulder template B-6 may be required during shoulder closure. Plan for revised Shoulder Closures as shown in Sheet 15-063.

2. Install erosion and sediment control measures as shown.

3. Remove guardrail and hot mix curb to the extents shown in the plans.

4. Perform excavations for drilled shafts to the dimensions and elevations shown in the plans.

5. Perform remaining construction activity in work area as per plans, including placement of new guardrail, removing existing overhead truss, outside shoulder-up, outside shoulder foundation, and replacing guardrail to match existing.

6. Installation of proposed sign structure shall be restricted to nighttime hours only. Rolling road blocks in accordance with DelDOT MTD standards. Standard application for TA-15 shall be used for shoulder closures. The contractor shall coordinate with DelDOT construction and traffic safety as to the duration and work hour restrictions for the rolling road blocks.

7. Existing sign structure may not be removed until after the new replacement sign structure is installed and accepted, unless otherwise approved by the Engineer.

8. Complete all remaining work including full restoration of area to its original condition, roadway repair, and grading.

9. Remove temporary erosion and sediment control devices after excavation has scheduled for disturbed areas in accordance with these plans and as directed by the Engineer.

10. Remove all devices including temporary signs and reopen the roadway/shoulder.

11. Install inside shoulder mitigation devices in northbound direction in accordance with DelDOT MTD standards. Use shoulder template B-7 until the new replacement guardrail is installed and accepted. Note that the shoulder template B-7 may be required during shoulder closure. Plan for revised Shoulder Closures as shown in Sheet 15-063.

12. Perform remaining construction activity in work area as per plans, including removal of existing overhead-upright and foundation, removal of existing guardrail, and tie into existing guardrail construction.

13. Remove all devices including temporary signs and reopen the roadway/shoulder.

14. All existing signs to remain unless otherwise noted.

Guardsrail Schedule:

<table>
<thead>
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<th>No.</th>
<th>Item Description / Type</th>
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<th>Length</th>
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<td>187+73</td>
<td>varies</td>
<td>varies</td>
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<td>27</td>
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<td>187+73</td>
<td>varies</td>
<td>75'</td>
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<tr>
<td>28</td>
<td>GUARDRAIL END TREATMENT</td>
<td>187+73</td>
<td>varies</td>
<td>1'</td>
</tr>
<tr>
<td>29</td>
<td>Galvanized Steel Beam</td>
<td>187+73</td>
<td>varies</td>
<td>1'</td>
</tr>
<tr>
<td>30</td>
<td>GUARDRAIL END TREATMENT</td>
<td>187+73</td>
<td>varies</td>
<td>1'</td>
</tr>
<tr>
<td>31</td>
<td>End Arch 3173 (730001)</td>
<td>187+73</td>
<td>varies</td>
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Soil Boring Schedule:

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<th>Comments</th>
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<tr>
<td>32</td>
<td>37-1019</td>
<td>65'HT</td>
<td>CUT 4B</td>
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<td>CUT 4B</td>
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</tr>
</tbody>
</table>

KORANES WARI VETERANS MEMORIAL HWY (SR 1 NORTHBOUND)

These plans also show the Contract to remove existing post and foundation, and install existing sign on new post and foundation. See Sheet 9 for proposed location.
1. Install hot devices in accordance with Delaware standards. For construction activities adjacent to the outside shoulders, shoulder closure details on sheet 14 as guidance. Additional hot lanes may be required based on field conditions.

2. Install erosion and sediment control measures as shown.

3. Remove guardrail and hot mix curb to the extents shown in the plans.

4. Perform excavations for drilled shaft to the dimensions and elevations shown in plans.

5. Perform remaining construction activity in work area as per plans, including placing new sign structure, removing existing sign structure, removing existing guardrail, and extending existing guardrail to match existing.

6. Installation of proposed sign structure shall be restricted to nighttime hours only, rolling road blocks in accordance with DelDOT standard typical application.

7. ALL EXISTING SIGNS TO REMAIN UNLESS OTHERWISE NOTED.

8. Remove all MOT devices including temporary signs and reopen the roadway/shoulder.

9. All disturbed areas in accordance with these plans and as directed by the Engineer.

10. Remove all MOT devices with temporary signs and reopen the roadway/shoulder.

11. All existing signs to remain unless otherwise noted.

**Guardrail Schedule**

**Curb Schedule**

**Soil Boring Schedule**

**Notes:**
- All beginning stations are approximate. Exact locations are to be determined by the Engineer in the field.
- A = offset attenuation as per standard details.
- B = adjustment to P.C.C. barrier.
NOT TO SCALE

SR 1 TYBOUTS
LEFT EXIT COMPLIANCE

LEGEND

- EXTRUDED ALUMINUM

NOTES:
1. COLOR: RHINO OLIVE GREEN, RIMROCK CUMBER, SURFACE-FINISH, TEXTURED.
2. THE CONTRACTOR WILL FURNISH AND INSTALL ALL SIGNS SHOWN ON THIS SHEET.

REMARKS
A. 7'6" MINIMUM FOR BREAKAWAY SUPPORTS OR 5'-6" FOR NON-BREAKAWAY SUPPORTS.
B. 2'.0" MINIMUM
C. 7'6" MINIMUM & PREFERABLE. THIS DIMENSION IS TO BE INCREASED ONLY A (MIN.) = 5'-6" FOR NON-BREAKAWAY AND B (MIN) 2'-0" WHEN REQUIRED TO MEET A = 7'-6" FOR BREAKAWAY OR

ALL DIMENSIONS ARE TO BOTTOM OF SIGN

*TOTAL WEIGHT BELOW THE HINGES SHOULD BE LESS THAN 600 POUNDS

LATERAL CLEARANCE
SEE SUPPORT CHARTS

OBJECT CODES

**

GROUND MOUNTED SIGN DETAIL

SIGN CLEARANCE

SEE SUPPORT CHARTS (THIS SHEET) FOR ALTERNATIVE SUPPORT SPACING FOR BREAKAWAY SUPPORTS

7' MINIMUM REQUIRED FOR ALL STEEL SUPPORTS AND FOR WOOD SUPPORTS LARGER THAN 4"X6"

*TOTAL WEIGHT BELOW THE HINGES SHOULD BE LESS THAN 600 POUNDS

LATERAL CLEARANCE
SEE SUPPORT CHARTS

GUIDE SIGN STEEL SUPPORT CHART

<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SIGN #</th>
<th>POST SIZE</th>
<th>HOLES</th>
<th>WOOD CLEARANCE</th>
<th>TOTAL SUPPORT CLEARANCE</th>
<th>SUPPORT SPACING FROM SIGN</th>
</tr>
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<tbody>
<tr>
<td>32</td>
<td>9</td>
<td>W8 x 15</td>
<td>2</td>
<td>18&quot;</td>
<td>5' - 7&quot;</td>
<td>2'-11'-2&quot;</td>
</tr>
</tbody>
</table>

** = BREAKAWAY  ** = NON-BREAKAWAY
SEQUENCE OF CONSTRUCTION

1. All signs shall comply with the “Delaware Manual on Uniform Traffic Devices” (DEMUTCD).
2. Construction forces shall utilize TA-5, TA-5A, TA-3L, TA-85, TA-44, and TA-44A for mot operations. Additional classes may be required based on field conditions and construction needs.
3. Only one set of signs, shoulder closure or lane closure, shall be visible at any time. Signs for the closure type not in use shall be completely covered with no retroreflective material showing.
4. The contractor shall be responsible for coordinating his work with other contractors in the area.
5. Install erosion and sediment control measures as shown.
6. Remove guardrail and hot mix curb to the extents shown in the plans.
7. Perform excavations for drilled shaft to the dimensions and elevations shown in plans.
8. Perform remaining construction activity in work area as per plans, including placing new sign structure, removing existing sign structure, and replacing guardrail to match existing.
9. Installation of proposed sign structure shall be restricted to nighttime hours only. Rolling road blocks, in accordance with DE MUTCD standards, typical application, TA-50H shall be used for shoulder closures. The contractor shall coordinate with DE MUTCD standard traffic safety and as to the duration and work hour restrictions for the rolling road block.
10. Existing sign structure may not be removed until after the new replacement sign structure is installed and accepted unless noted on the plans or otherwise approved by the engineer.
11. Complete all remaining work including full restoration of area to its original condition, roadway repair, and grading.
12. Remove temporary erosion and sediment control devices after vegetation has stabilized all disturbed areas in accordance with these plans and as directed by the engineer.
13. Remove all mot devices including temporary signs and reopen the roadway/shoulder.

SHOULDER CLOSURE SIGNS

SEE TA-5 DEMUTCD FOR ADDITIONAL SUPPORT
**NOTE:** The design sign structure height was determined assuming a 6-foot max. vertical tolerance between the true high point in the finished roadway surface and proposed top of drilled shaft foundation. The contractor shall be responsible for conducting surveys to verify span lengths and structure heights. Survey results shall be submitted to the Department for verification of all information provided in the sign structure charts.
G
AROUND
EVENLY ALL
SPACE HOLES
(TYP.)
SPLICE PLATE
CIRCLE
BOLT +1/16" (TYP.)
H.S. BOLT DIA.
HOLE DIAMETER = (CVN IF
THICKNESS
EXCEEDS 1/2")
WALL THICKNESS
MAST (CVN IF
AS A CONTINUOUS RING.
WELD IS MADE. BACKING RING MUST BE FABRICATED
BASE PLATE BEFORE THE FULL PENETRATION GROOVE
COLUMN AND CONTINUOUSLY FILLET WELDED TO THE
BACKING RING MUST BE FITTED/SIZED TO THE PIPE
(MAST OR MAST ARM
CJP PLATE (CVN)
OR SPLICE
BASE PLATE (CVN)
PLATE (CVN)
OR SPLICE
BASE PLATE
DETAIL)
SEE "WELD
DETAIL NOTE:
(16 BOLT CONFIGURATION SHOWN, OTHER CONFIGURATIONS SIMILAR)
(SEE DETAIL A ON SHEET 18)
SCREEN (SEE SHEET 18)
SEAL WITH GALVANIZED
SCREEN, 1 1/4" TO 3/8" OPENING, TO PREVENT
ENTRY OF RODENTS.  SCREEN IS TO BE REMOVABLE AND ATTACHED TO
OVERHEAD STRUCTURE
END CONNECTION DETAILS
OVERHEAD STRUCTURE
BASE CONNECTION DETAILS
ANCHOR PLATE DETAIL
PLAN
ANCHOR PLATE DETAIL
ELEVATION
SECTION
BASE CONNECTION DETAILS
OVERHEAD STRUCTURE
END CONNECTION DETAILS
ANCHOR PLATE DETAIL
PLAN
ANCHOR PLATE DETAIL
ELEVATION
SECTION
OVERHEAD STRUCTURE
BASE CONNECTION DETAILS
**NOTES:**

1. For more information regarding placement, materials, and fabrication of drilled shafts, refer to Section 606 - Drilled Shafts of the standard specifications.

2. All elevations shall be verified in the field prior to fabrication and construction.

3. Cost of reinforcing bars inside the drilled shaft is included in the bid price for the appropriate drilled shaft. Reinforcement shall be epoxy coated.

4. Concrete spacers or other approved non-corrosive spacing devices shall be installed in accordance with Subsection 306.03(13) of the standard specifications.

5. Access tubes for crosshole sonic log (CSL) testing shall be installed in accordance with Subsection 306.03(9) of the standard specifications.

6. It is the responsibility of the contractor to inspect the site where drilled shafts will be built prior to submitting their bid proposals to determine accessibility to various locations. Construction of drilled shaft foundations may require the use of temporary casing. The length of drilled shaft shall be adjusted in the field as required.

7. Construction of drilled shaft foundations may require the use of temporary casing. Concrete shall be placed in the same working day as excavation takes place.