<table>
<thead>
<tr>
<th>NO.</th>
<th>DISCIPLINE</th>
<th>CATEGORY</th>
<th>ITEM</th>
<th>CP4</th>
<th>REFERENCE</th>
<th>INSTRUCTIONS / DIRECTIONS</th>
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<tr>
<td></td>
<td>INFRASTRUCTURE</td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>GRADING, SIDE SLOPES</td>
<td>YES</td>
<td>CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING OF THE PROJECT ELEMENTS WHICH INCLUDE THE WORK OF HST AND THIRD PARTIES (UPRR, BNSF, CALTRANS, AND LOCAL JURISDICTIONS). CONTRACTOR SHALL MONITOR SETTLEMENTS OF FILL AREAS IN ACCORDANCE WITH DESIGN CRITERIA. CONTRACTOR SHALL PROVIDE PERMANENT SLOPE PROTECTION.</td>
<td></td>
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<tr>
<td>2</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>DRAINAGE</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND INSTALL STABILITY MEASURES TO MEET MAINTENANCE REQUIREMENTS.</td>
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<tr>
<td>3</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>GEOTEKST EXPANDED</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND INSTALL STABILITY MEASURES TO MEET MAINTENANCE REQUIREMENTS.</td>
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<tr>
<td>4</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>SUBBASE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL ONLY INSTALL PROTECTIVE LAYER FOR PROTECTION OF PREPARED SUBGRADE. REFER TO SCOPE OF WORK.</td>
</tr>
<tr>
<td>5</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>AC PROTECTIVE LAYER</td>
<td>YES</td>
<td>CONTRACTOR SHALL USE AC PROTECTION LAYER OVER TRACKWAY SUBGRADE.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>SITE WORK</td>
<td>SPECIAL TRACKWORK</td>
<td>GRADING OF TRACKWAY IN AREAS OF SPECIAL TRACKWORK AND WAYSIDE EQUIPMENT</td>
<td>YES</td>
<td>CONTRACTOR SHALL INSTALL PROTECTIVE LAYER FOR PROTECTION OF PREPARED SUBGRADE IN AREAS LIMITS OF SPECIAL TRACKWORK AND WAYSIDE EQUIPMENT THAT WILL BE INSTALLED LATER. REFER TO SCOPE OF WORK.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>ROAD RECONSTRUCTION/REHAB</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT ROAD CONTAINMENT/GATEWAY (IF APPLICABLE) PER DESIGN CRITERIA.</td>
</tr>
<tr>
<td>8</td>
<td>SITE WORK</td>
<td>EARTHWORK</td>
<td>DRAINAGE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL REFER TO SCOPE OF WORK.</td>
</tr>
<tr>
<td>9</td>
<td>SITE WORK</td>
<td>ACCESS CONTROL</td>
<td>FENCE</td>
<td>YES</td>
<td>CONTRACTOR SHALL REFER TO SCOPE OF WORK.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>SITE WORK</td>
<td>ACCESS CONTROL</td>
<td>GATES (WALKING AND DRIVING)</td>
<td>YES</td>
<td>CONTRACTOR SHALL REFER TO SCOPE OF WORK.</td>
<td></td>
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<tr>
<td>11</td>
<td>SITE WORK</td>
<td>ACCESS ROAD</td>
<td>ACCESS ROADS</td>
<td>YES</td>
<td>CONTRACTOR SHALL PROVIDE PER PROTECTION FOR HST PIERS AND THIRD PARTY PIERS FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
<td></td>
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<tr>
<td>12</td>
<td>SITE WORK</td>
<td>ACCESS ROAD</td>
<td>CONTRACTED SUBGRADE</td>
<td>YES</td>
<td>CONTRACTOR SHALL PROVIDE PER PROTECTION FOR HST PIERS AND THIRD PARTY PIERS FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
<td></td>
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<tr>
<td>13</td>
<td>SITE WORK</td>
<td>ACCESS ROAD</td>
<td>HIGHWAY SUBGRADE</td>
<td>YES</td>
<td>CONTRACTOR SHALL PROVIDE PER PROTECTION FOR HST PIERS AND THIRD PARTY PIERS FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>SITE WORK</td>
<td>ACCESS ROAD</td>
<td>DRAINAGE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL INSTALL AN OPAQUE SOLID BARRIER ON OVERHEAD STRUCTURES.</td>
</tr>
<tr>
<td>15</td>
<td>SITE WORK</td>
<td>INTERSECTION PROTECTION AND SAFETY BARRIER</td>
<td>CONCRETE BARRIERS, CONCRETE WALLS, METAL BEAM GUARD RAIS, AND EARTH-BERMS OR DITCHES</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE INTRUSION BARRIER INTEGRAL TO THE RETAINING WALL IF THERE IS NOT SUFFICIENT SPACE TO CONSTRUCT AN INDEPENDANT INTRUSION PROTECTION BARRIER.</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>SITE WORK</td>
<td>INTERSECTION PROTECTION</td>
<td>RETAINING WALL</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE INTRUSION BARRIER INTEGRAL TO THE RETAINING WALL IF THERE IS NOT SUFFICIENT SPACE TO CONSTRUCT AN INDEPENDANT INTRUSION PROTECTION BARRIER.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>SITE WORK</td>
<td>INTERSECTION PROTECTION</td>
<td>SOLID BARRIER</td>
<td>YES</td>
<td>CONTRACTOR SHALL INSTALL AN OPAQUE SOLID BARRIER ON OVERHEAD STRUCTURES.</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>SITE WORK</td>
<td>INTERSECTION PROTECTION</td>
<td>FENCE</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND INSTALL ACCESS CONTROL SIGNAGE. SIGNS SHALL BE ACCEPTED BY THE AUTHORITY BEFORE FABRICATION.</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>SITE WORK</td>
<td>WORK ACCESS</td>
<td>DIAM. POLE AND FOUNDATION</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL CONSTRUCT FENCING.</td>
</tr>
<tr>
<td>20</td>
<td>SITE WORK</td>
<td>WORK ACCESS</td>
<td>DIAM. PILOT</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL CONSTRUCT FENCING.</td>
</tr>
<tr>
<td>21</td>
<td>SITE WORK</td>
<td>SURVEY</td>
<td>SURVEY AND FIELD ENGINEERING</td>
<td>YES</td>
<td>CONTRACTOR SHALL PERFORM ALL SITE SURVEY, FIELD ENGINEERING SURVEY, AND SETLEMENT OR OTHER MONITORING SERVICES FOR THE PROJECT.</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>MAINTENANCE OF TRAFFIC</td>
<td>YES</td>
<td>ROADWAY WORK SHALL BE DESIGNED AND CONSTRUCTED FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>ROADWAY WORK / STRUCTURES</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL REFER TO SCOPE OF WORK.</td>
</tr>
<tr>
<td>24</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>CHAINAGE SEPARATIONS (HST OVERPASS AND UNDERPASS)</td>
<td>YES</td>
<td>ROADWAY WORK SHALL BE DESIGNED AND CONSTRUCTED FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
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<tr>
<td>25</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>明星化 BIGGER / ADDITIONS TO EXISTING ROADS</td>
<td>YES</td>
<td>ROADWAY WORK SHALL BE DESIGNED AND CONSTRUCTED FOR DESIGN CRITERIA AND THIRD PARTY REQUIREMENTS.</td>
<td></td>
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<tr>
<td>26</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>FENCING</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT FENCE USING MATERIALS AS INDICATED IN THE ENVIRONMENTAL DOCUMENTS.</td>
</tr>
<tr>
<td>27</td>
<td>SITE WORK</td>
<td>ROADWAY WORK</td>
<td>DRAINAGE CONNECTION</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT FENCE USING MATERIALS AS INDICATED IN THE ENVIRONMENTAL DOCUMENTS.</td>
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<tr>
<td>28</td>
<td>SITE WORK</td>
<td>ENVIRONMENTAL</td>
<td>WASTED MATERIALS RENOVATION</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT FENCE USING MATERIALS AS INDICATED IN THE ENVIRONMENTAL DOCUMENTS.</td>
</tr>
<tr>
<td>29</td>
<td>SITE WORK</td>
<td>ENVIRONMENTAL</td>
<td>SOUND WALL AND FOUNDATION</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN CHSR RETAINED STRUCTURES AND CONNECTION METHODS BETWEEN STRUCTURE AND SOUND WALL TO ACCOMMODATE FOR FUTURE INSTALLATION AND LOADS OF SOUND WALL PER DESIGN CRITERIA.</td>
</tr>
<tr>
<td>30</td>
<td>SITE WORK</td>
<td>ENVIRONMENTAL</td>
<td>LANDSCAPING</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL CONSTRUCT RETAINED STRUCTURES WITH A PROPER CONNECTION METHOD BETWEEN STRUCTURE AND SOUND WALL TO ACCOMMODATE FOR FUTURE INSTALLATION AND LOADS OF SOUND WALL PER DESIGN CRITERIA.</td>
</tr>
<tr>
<td>31</td>
<td>SITE WORK</td>
<td>ENVIRONMENTAL</td>
<td>DRAINAGE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN CHSR RETAINED STRUCTURES AND CONNECTION METHODS BETWEEN STRUCTURE AND SOUND WALL TO ACCOMMODATE FOR FUTURE INSTALLATION AND LOADS OF SOUND WALL PER DESIGN CRITERIA.</td>
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<tr>
<td>32</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>DRAIN AGGREGATE UNDER CABLE TRACK</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM, BUT CONSTRUCT WHAT IS NEEDED TO ACCOMMODATE TEMPORARY DRAINAGE CONDITIONS. REFER TO SCOPE OF WORK.</td>
</tr>
<tr>
<td>33</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>UNDERPINNING SYSTEM</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM, BUT CONSTRUCT WHAT IS NEEDED TO ACCOMMODATE TEMPORARY DRAINAGE CONDITIONS. REFER TO SCOPE OF WORK.</td>
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<tr>
<td>34</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>REPROATED PID UNDERPINNING (CLOSED DRAINAGE)</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM, BUT CONSTRUCT WHAT IS NEEDED TO ACCOMMODATE TEMPORARY DRAINAGE CONDITIONS. REFER TO SCOPE OF WORK.</td>
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<td>35</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>GEOTEKST FABRIC / GEOFABRIC</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM, BUT CONSTRUCT WHAT IS NEEDED TO ACCOMMODATE TEMPORARY DRAINAGE CONDITIONS. REFER TO SCOPE OF WORK.</td>
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<tr>
<td>36</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>TRACKSIDE DITCH (OPEN CHANNEL DRAINAGE)</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT PERMANENT OPEN/SURFACE DRAINAGE. REFER TO SCOPE OF WORK.</td>
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<td>37</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>DRAIN INLET</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE FINAL DRAINAGE SYSTEM. DRAIN INLETS SHALL ACCOMMODATE TEMPORARY AND FINAL DRAINAGE SYSTEM REFER TO SCOPE OF WORK.</td>
<td></td>
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<tr>
<td>38</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>CONNECTION TO STORM DRAIN</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT FOR THE FINAL DRAINAGE SYSTEM AND CONNECT TO LOCAL STORM DRAIN SYSTEMS. REFER TO SCOPE OF WORK.</td>
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<td>39</td>
<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>DETENTION BASIN</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DETENTION BASINS TO ACCOMMODATE THE FINAL DRAINAGE SYSTEM.</td>
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<td>SITE WORK</td>
<td>TRAFFIC DRAINAGE</td>
<td>SEWERS</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT SEWERS (IF REQUIRED).</td>
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<td>ITEM</td>
<td>CP4</td>
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<td>INSTRUCTIONS / DIRECTIONS</td>
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<tr>
<td>41</td>
<td>SITE WORK</td>
<td>TRACKWAY DRAINAGE</td>
<td>ENERGY DISSIPATORS</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE FOR ALL WATER APPLIANCES AND FACILITIES SEPARATED FROM THE HSR TRACKWAY. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>42</td>
<td>SITE WORK</td>
<td>DRAINAGE</td>
<td>OLA VERTS</td>
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<td></td>
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</tr>
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<td>43</td>
<td>SITE WORK</td>
<td>DRAINAGE</td>
<td>LOW PRESSURE STATION (THIRD PARTY)</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
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<td>44</td>
<td>SITE WORK</td>
<td>DRAINAGE</td>
<td>OVERHEAD DRAINAGE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
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<td>45</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>WATERPROOFING SYSTEM AT STRUCTURE/UTILITY INTERFACES</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>46</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>RELATION OF EXISTING UTILITIES</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>47</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>CONDUIT CONTROL</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>48</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>VOLT./FFS RACK</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>49</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>SHUT-OFF Valve</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>50</td>
<td>SITE WORK</td>
<td>UTILITIES</td>
<td>GEOPUMPS</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT DRAINAGE SYSTEM RATED TO 25 KVA AND AERIAL TRANSFORMER INSTALLATION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>51</td>
<td>SITE WORK</td>
<td>LOW VOLTAGE UNDER TRACK OR IN ROYWAY OVERHEAD STRUCTURES (SPARE CONDUIT)</td>
<td>SPARE LOW VOLTAGE CONDUITS AND MANHOLES AT GRADE AND ROYWAY OVERHEAD STRUCTURES</td>
<td>YES</td>
<td></td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT LOW-VOLTAGE UNDER TRACK CONDUIT DUCTBANKS AND ACCOMPANYING MANHOLES TO SERVICE TRACTION POWER FACILITIES, TRAIN CONTROL FACILITIES, STAND-ALONE RADIO SITES, STATION PLATFORMS, AND O&amp;M FACILITIES. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>52</td>
<td>SITE WORK</td>
<td>LOW VOLTAGE UNDER TRACK CROSSING</td>
<td>LOW VOLTAGE UNDER TRACK CONDUITS IN DUCTBANKS AND MANHOLES AT GRADE, CUT/EFFORMANCE, AND RETAINED STRUCTURES</td>
<td>YES</td>
<td></td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT LOW-VOLTAGE UNDER TRACK CONDUIT DUCTBANKS AND ACCOMPANYING MANHOLES TO SERVICE TRACTION POWER FACILITIES, TRAIN CONTROL FACILITIES, STAND-ALONE RADIO SITES, STATION PLATFORMS, AND O&amp;M FACILITIES. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>53</td>
<td>SITE WORK</td>
<td>LOW VOLTAGE UNDER GROUND CROSSING</td>
<td>LOW VOLTAGE UNDER GROUND CONDUITS IN DUCTBANKS AND MANHOLES (ALL LOCATIONS)</td>
<td>YES</td>
<td></td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT LOW-VOLTAGE UNDER TRACK CONDUIT DUCTBANKS AND ACCOMPANYING MANHOLES TO SERVICE TRACTION POWER FACILITIES, TRAIN CONTROL FACILITIES, STAND-ALONE RADIO SITES, STATION PLATFORMS, AND O&amp;M FACILITIES. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>54</td>
<td>SITE WORK</td>
<td>XYZ UNDER GROUND CROSSING</td>
<td>XYZ UNDER GROUND CONDUITS IN DUCTBANKS AND MANHOLES (ALL LOCATIONS)</td>
<td>YES</td>
<td></td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT LOW-VOLTAGE UNDER TRACK CONDUIT DUCTBANKS AND ACCOMPANYING MANHOLES TO SERVICE TRACTION POWER FACILITIES, TRAIN CONTROL FACILITIES, STAND-ALONE RADIO SITES, STATION PLATFORMS, AND O&amp;M FACILITIES. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>55</td>
<td>SITE WORK</td>
<td>LOW VOLTAGE UNDER TRACK CROSSING</td>
<td>LOW VOLTAGE UNDER TRACK CONDUITS (AERIAL AND OTHER STRUCTURE)</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT LOW-VOLTAGE UNDER TRACK CONDUIT DUCTBANKS AND MANHOLES FOR AERIAL, TRENCH, AND C&amp;C STRUCTURES. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>56</td>
<td>STRUCTURES</td>
<td>CABLE TROUGH</td>
<td>CABLE TROUGH - AERIAL STRUCTURE</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE CABLE TROUGH WALL FOR THE CONCRETE PARAPET CONNECTION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>57</td>
<td>STRUCTURES</td>
<td>CABLE TROUGH</td>
<td>CABLE TROUGH - TRENCH AND C&amp;C STRUCTURES</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE CABLE TROUGH WALL FOR THE CONCRETE PARAPET CONNECTION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>58</td>
<td>STRUCTURES</td>
<td>CABLE TROUGH</td>
<td>CABLE TROUGH - CABLE TRENCH, RETAINED STRUCTURES</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE CABLE TROUGH WALL FOR THE CONCRETE PARAPET CONNECTION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>59</td>
<td>STRUCTURES</td>
<td>CABLE TROUGH</td>
<td>CABLE TRENCH TRANSITIONS</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT THE CABLE TROUGH WALL FOR THE CONCRETE PARAPET CONNECTION. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>60</td>
<td>STRUCTURES</td>
<td>RETAINING WALL</td>
<td>RETAINING WALL</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL REFER TO SCOPE OF WORK. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
</tr>
<tr>
<td>61</td>
<td>STRUCTURES</td>
<td>RETAINING WALL</td>
<td>FALL PROTECTION</td>
<td>NO</td>
<td>YES</td>
<td>CONTRACTOR SHALL DESIGN AND CONSTRUCT FALL PROTECTION GIRDER PER THE DESIGN CRITERIA. REFER TO THE DESIGN CRITERIA FOR DETAILS.</td>
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## WORK ELEMENTS

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<td>CONTRACTOR SHALL DESIGN AERIAL STRUCTURE DRAINAGE SYSTEM PER DESIGN CRITERIA AND DIRECTIVE DRAWINGS. CONTRACTOR SHALL DESIGN AND INSTALL THE DRAIN PIPE (EMBEDDED IN PER) AND SHALL NOT INTERRUPT THE SUBSTRUCTURE REINFORCEMENT, ESPECIALLY IN THE PLASTIC HINGE POINT. CONTRACTOR SHALL CONNECT THE DRAIN PIPE TO A DRAINAGE SYSTEM.</td>
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**THE WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING WORK ELEMENTS**

**Attachment 4 - Scope Elements Matrix**

RFP No.: HSR-14-32-A - Addendum No. 2 - 10/09/2015
### Elements

#### Scope

- **SHALL WORK THE BUT NOT LIMITED THE WORK ELEMENTS**

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#### Systems

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## ATTACHMENT 4 - SCOPE ELEMENTS MATRIX

**NOTES:**

- THE WORK SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING WORK ELEMENTS
- CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF TEMPORARY FACILITIES THAT NEED TO BE LEFT IN PLACE AFTER THE COMPLETION OF THE CONTRACT.
- REFER TO SCOPE OF WORK.
- REFER TO SYSTEM SAFETY AND SECURITY CHAPTER OF THE DESIGN CRITERIA FOR DETAILS.