

Intersection: Escuela Ave at El Camino Real, Mountain View, California

MapData payload size 802

```
payload=0012831E280B30190000040200A5F751ED9141B0B20887014A0288BC5CB0045000000240031C7374941D0F4C4
3873940E74F7480E45C680913200042C0214000003000047437BC712825C2449635F1F0410180048740002242D00010
600C8800000E00011D506C8E4A1AB12E25899C8A96021A00000148004AFC06DE0C0A0518743C3ABC274C76F639A0EE8
268C148190003244E00018B014D000000800021754AE00EB129B01DAECF563BCB181012290000C580C6800000400018
B6A93C0759C4CF0ED9A7A8165F8E20AB291E4522B0000C1078002C073400000140009597A7E208F10EAB09F5254969B
A07392A0148720000A42C400047021080000020003656106D38243C181C7D458425503A95A3EC34586C8443C8020000
080638128400000400018A5A028C75494EB8B15CCB457B46503AFDA00C4211001113800800002018E05210000010000
62A6D1AF168B0FC8B0BCC88587A5B23AB6A3B02229001000004031C0B420000020000C56B84C62D2C20316101A18B07
CB50759A45684456002000008065818A80000012000A946459430281445EF1091F92D42665980242480010B03550000
00C0001120F12688C48BF4684311F904320012070000891540004180E620000018001445D669A13BCAE401253E126D4
1C2701C685169CB1A59C846581EE800000520022CFE92430C0A0518743C344DDBA06978AB6889C323C698EA8E08DA6C
B8521C40004909800022C10740000020001068C09B80D1576CD1A706B52220EC7B1A6CA9F82344B230485400011608B
A000001000082195C901A3DAD4A34C8D638448392A3436576C48594EE290B8000208940016093A000000A0006A27ED9
A047886904B468D37159718E2F3280011E11481A0002A45440014704E0800000800015B6B3342090F0D3255B21A4F2C
381103800800002008E0A41000001000023651621C698AAD30D27F624088240040000100470560800000800011AEFEE
8234EED6BC68EAB150441600200000802082CC0010600015C0C76AA08F10B0D4BB8591078429172000E48C20007020B
B0004180004794E8A98D4B0A5412049F002459000301061800200000233824164590FB322C21D98048B1000600
```

gov.usdot.asn1.generated.j2735.dsrc.MessageFrame

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 11,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1026
        },
        revision 0,
        refPoint {
          lat 373930715,
          long -1220964507,
          elevation 270
        },
        laneWidth 330,
        speedLimits {
          {
            type vehicleMaxSpeed,
            speed 559
          }
        },
        laneSet {
          {
            laneID 1,
            ingressApproach 1,
            laneAttributes {
              directionalUse {ingressPath},
              sharedWith {},
              laneType vehicle : {}
            },
            maneuvers {maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
            nodeList nodes : {
              {
                delta node-XY4 : {
                  x 461,
                  y 2634
                }
              },
              {
                delta node-XY2 : {
```

```

        x 647,
        y 305
    }
},
{
    delta node-XY2 : {
        x 540,
        y 808
    }
},
{
    delta node-XY4 : {
        x 935,
        y 1864
    }
},
{
    delta node-XY2 : {
        x 581,
        y 564
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 19,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 4
    }
}
},
{
    laneID 2,
    ingressApproach 1,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverLeftAllowed},
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 1079,
                y 1934
            }
        },
        {
            delta node-XY5 : {
                x 2085,
                y 4241
            }
        },
        {
            delta node-XY5 : {
                x 3179,
                y 6392
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 1,

```

```

        maneuver {maneuverStraightAllowed}
    }
},
{
    connectingLane {
        lane 14,
        maneuver {maneuverStraightAllowed}
    },
    signalGroup 4
},
{
    connectingLane {
        lane 11,
        maneuver {maneuverLeftAllowed}
    },
    signalGroup 4
}
}
},
{
    laneID 3,
    egressApproach 2,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed},
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 1345,
                y 1607
            }
        },
        {
            delta node-XY5 : {
                x 2154,
                y 4398
            }
        },
        {
            delta node-XY5 : {
                x 3148,
                y 6421
            }
        }
    }
},
{
    laneID 4,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
        maneuverRightTurnOnRedAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1984,
                y -290
            },
            attributes {

```

```

    data {
      speedLimits : {
        {
          type vehicleMaxSpeed,
          speed 782
        }
      },
      dWidth 30
    }
  },
  {
    delta node-XY4 : {
      x 1400,
      y -1581
    }
  },
  {
    delta node-XY4 : {
      x 1782,
      y -2252
    }
  },
  {
    delta node-XY4 : {
      x 1857,
      y -2420
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 6
  },
  {
    connectingLane {
      lane 19,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 5,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1705,
        y -576
      }
    },
    {
      delta node-XY4 : {
        x 1417,

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```

        y -1616
    }
},
{
    delta node-XY4 : {
        x 1723,
        y -2133
    }
},
{
    delta node-XY4 : {
        x 1942,
        y -2556
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 20,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
    }
}
},
{
    laneID 6,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1450,
                y -784
            }
        },
        {
            delta node-XY4 : {
                x 1436,
                y -1634
            }
        },
        {
            delta node-XY4 : {
                x 1741,
                y -2136
            }
        },
        {
            delta node-XY3 : {
                x 1215,
                y -1596
            }
        },
        {
            delta node-XY3 : {
                x 714,
                y -903
            }
        }
    }
}

```

```

    },
    connectsTo {
      {
        connectingLane {
          lane 21,
          maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
      },
      {
        connectingLane {
          lane 7,
          maneuver {maneuverStraightAllowed}
        }
      }
    }
  },
  {
    laneID 7,
    ingressApproach 3,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x 1213,
          y -1039
        },
        attributes {
          dWidth -30
        }
      },
      {
        delta node-XY4 : {
          x 1368,
          y -1547
        }
      },
      {
        delta node-XY5 : {
          x 2635,
          y -3212
        }
      },
      {
        delta node-XY2 : {
          x 626,
          y -352
        }
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 14,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 1
    },
    {
      connectingLane {
        lane 11,

```

```

        maneuver {maneuverUTurnAllowed}
    },
    signalGroup 1
}
},
{
    laneID 8,
    egressApproach 4,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverRightAllowed},
    nodeList nodes : {
        {
            delta node-XY5 : {
                x 2824,
                y -4697
            },
            attributes {
                dWidth 30
            }
        },
        {
            delta node-XY2 : {
                x 14,
                y -523
            }
        },
        {
            delta node-XY3 : {
                x 1057,
                y -1368
            }
        },
        {
            delta node-XY4 : {
                x 1323,
                y -1797
            }
        },
        {
            delta node-XY2 : {
                x 278,
                y -807
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 15,
                maneuver {maneuverRightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1027
            }
        }
    }
},
{
    laneID 9,
    egressApproach 4,

```

```

laneAttributes {
  directionalUse {egressPath},
  sharedWith {},
  laneType vehicle : {}
},
maneuvers {maneuverStraightAllowed},
nodeList nodes : {
  {
    delta node-XY3 : {
      x 360,
      y -1885
    }
  },
  {
    delta node-XY4 : {
      x 1353,
      y -1577
    }
  },
  {
    delta node-XY3 : {
      x 1111,
      y -1235
    }
  },
  {
    delta node-XY3 : {
      x 986,
      y -1240
    }
  },
  {
    delta node-XY4 : {
      x 1531,
      y -2045
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 8,
      maneuver {maneuverStraightAllowed}
    }
  },
  {
    connectingLane {
      lane 19,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1027
    }
  }
},
{
  laneID 10,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},

```



```

nodeList nodes : {
  {
    delta node-XY3 : {
      x 621,
      y -1617
    }
  },
  {
    delta node-XY3 : {
      x 1302,
      y -1543
    }
  },
  {
    delta node-XY3 : {
      x 1071,
      y -1246
    }
  },
  {
    delta node-XY3 : {
      x 1085,
      y -1319
    }
  },
  {
    delta node-XY4 : {
      x 1389,
      y -1812
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 20,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1027
    }
  }
},
{
  laneID 11,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 860,
        y -1437
      }
    },
    {
      delta node-XY3 : {
        x 1324,
        y -1533
      }
    }
  }
}

```

```

    },
    {
      delta node-XY3 : {
        x 1056,
        y -1213
      }
    },
    {
      delta node-XY3 : {
        x 1055,
        y -1324
      }
    },
    {
      delta node-XY4 : {
        x 1434,
        y -1875
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 21,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1027
    }
  }
}
},
{
  laneID 12,
  ingressApproach 5,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -743,
        y -1691
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 559
            }
          }
        },
        dWidth -30
      }
    },
    {
      delta node-XY3 : {
        x -898,
        y -843
      }
    }
  },
}

```

```

    {
      delta node-XY2 : {
        x -615,
        y -208
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 9,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 4
    }
  }
},
{
  laneID 13,
  ingressApproach 5,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverLeftAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -994,
        y -1459
      }
    },
    {
      delta node-XY3 : {
        x -1262,
        y -1283
      }
    },
    {
      delta node-XY4 : {
        x -1981,
        y -3521
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 12,
        maneuver {maneuverStraightAllowed}
      }
    },
    {
      connectingLane {
        lane 3,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 4
    },
    {
      connectingLane {
        lane 21,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 4
    }
  }
}

```

```

    }
  },
  {
    laneID 14,
    egressApproach 6,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed, maneuverRightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -1301,
          y -1203
        }
      },
      {
        delta node-XY2 : {
          x -546,
          y -327
        }
      },
      {
        delta node-XY1 : {
          x -476,
          y 159
        }
      },
      {
        delta node-XY2 : {
          x -714,
          y 263
        }
      },
      {
        delta node-XY2 : {
          x -576,
          y -115
        }
      },
      {
        delta node-XY2 : {
          x -467,
          y -565
        }
      },
      {
        delta node-XY4 : {
          x -1689,
          y -3037
        }
      }
    }
  },
  {
    laneID 15,
    ingressApproach 7,
    laneAttributes {
      directionalUse {ingressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,

```

```

    maneuverRightTurnOnRedAllowed},
nodeList nodes : {
  {
    delta node-XY4 : {
      x -2060,
      y 579
    },
    attributes {
      data {
        speedLimits : {
          {
            type vehicleMaxSpeed,
            speed 782
          }
        }
      },
      dWidth 30
    }
  },
  {
    delta node-XY4 : {
      x -1893,
      y 1768
    }
  },
  {
    delta node-XY4 : {
      x -1672,
      y 1389
    }
  },
  {
    delta node-XY3 : {
      x -1424,
      y 1167
    }
  },
  {
    delta node-XY4 : {
      x -1650,
      y 1308
    }
  },
  {
    delta node-XY3 : {
      x -1175,
      y 814
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 14,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 2
  },
  {
    connectingLane {
      lane 9,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  }
}

```

```

},
{
  laneID 16,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY4 : {
        x -1856,
        y 880
      }
    },
    {
      delta node-XY4 : {
        x -1877,
        y 1741
      }
    },
    {
      delta node-XY4 : {
        x -1599,
        y 1449
      }
    },
    {
      delta node-XY3 : {
        x -1522,
        y 1147
      }
    },
    {
      delta node-XY4 : {
        x -1614,
        y 1276
      }
    },
    {
      delta node-XY3 : {
        x -1212,
        y 803
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 10,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 2
    }
  }
},
{
  laneID 17,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
},

```

```

maneuvers {maneuverStraightAllowed},
nodeList nodes : {
  {
    delta node-XY3 : {
      x -1643,
      y 1168
    }
  },
  {
    delta node-XY4 : {
      x -1802,
      y 1701
    }
  },
  {
    delta node-XY4 : {
      x -1647,
      y 1422
    }
  },
  {
    delta node-XY3 : {
      x -1471,
      y 1173
    }
  },
  {
    delta node-XY4 : {
      x -1940,
      y 1499
    }
  },
  {
    delta node-XY3 : {
      x -980,
      y 631
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 11,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  },
  {
    connectingLane {
      lane 18,
      maneuver {maneuverStraightAllowed}
    }
  }
},
{
  laneID 18,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
  nodeList nodes : {
    {

```

```

    delta node-XY3 : {
      x -1410,
      y 1434
    },
    attributes {
      dWidth -30
    }
  },
  {
    delta node-XY4 : {
      x -1788,
      y 1677
    }
  },
  {
    delta node-XY4 : {
      x -1608,
      y 1431
    }
  },
  {
    delta node-XY4 : {
      x -3189,
      y 2452
    }
  },
  {
    delta node-XY1 : {
      x -508,
      y -31
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 5
  },
  {
    connectingLane {
      lane 21,
      maneuver {maneuverUTurnAllowed}
    },
    signalGroup 5
  }
}
},
{
  laneID 19,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY4 : {
        x -596,
        y 2465
      },
      attributes {

```



```

        dWidth 30
    }
},
{
    delta node-XY4 : {
        x -1646,
        y 1458
    }
},
{
    delta node-XY4 : {
        x -1732,
        y 1564
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 3,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1025
        }
    }
}
},
{
    laneID 20,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY4 : {
                x -862,
                y 2183
            }
        },
        {
            delta node-XY4 : {
                x -1654,
                y 1446
            }
        },
        {
            delta node-XY4 : {
                x -1729,
                y 1572
            }
        }
    }
},
connectsTo {
    {
        connectingLane {
            lane 4,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,

```

```

        id 1025
    }
}
},
{
    laneID 21,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY4 : {
                x -1089,
                y 1857
            }
        },
        {
            delta node-XY4 : {
                x -1571,
                y 1455
            }
        },
        {
            delta node-XY4 : {
                x -1814,
                y 1578
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 5,
                maneuver {maneuverStraightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1025
            }
        }
    }
},
{
    laneID 22,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 49,
                y 2901
            },
            attributes {
                dWidth -30
            }
        },
        {
            delta node-XY3 : {

```

```

        x 1077,
        y -1298
    }
},
{
    delta node-XY3 : {
        x 1160,
        y -1086
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 23,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 14
    },
    {
        connectingLane {
            lane 24,
            maneuver {maneuverLeftAllowed}
        },
        signalGroup 14
    }
}
},
{
    laneID 23,
    laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
    },
    nodeList nodes : {
        {
            delta node-XY4 : {
                x 2382,
                y 339
            }
        },
        {
            delta node-XY4 : {
                x -1448,
                y -1452
            }
        },
        {
            delta node-XY3 : {
                x -1015,
                y -1056
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 22,
                maneuver {maneuverLeftAllowed}
            },
            signalGroup 12
        }
    }
}
},
{

```

```
laneID 24,
laneAttributes {
  directionalUse {ingressPath, egressPath},
  sharedWith {},
  laneType crosswalk : {}
},
nodeList nodes : {
  {
    delta node-XY4 : {
      x -2300,
      y 89
    }
  },
  {
    delta node-XY3 : {
      x 1159,
      y 1433
    }
  },
  {
    delta node-XY3 : {
      x 1057,
      y 1432
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 22,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 12
  }
}
}
}
}
}
}
```