

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

MapData payload size 736

```
payload=001282DC280B3019000003FE00A5F7AC9B9140EEF688A5014A0288BC58B0045000000E40081CCE2F0C4AA7B59
E2C71B4ED30E80978225923C7A92A75D710955B6A682AE0D2614D86650E7E5970248910002243600011214800083804
4400000500040E9A36D52551FAC0963A16762C7389BCD12C67E48495756B6E4A9774E815C1F4F8AB672A473C8BBB804
0E000600C8800000400013114116D7CBEFD7390C30D783A976810B010D000000A400157834B08605028C3A1E2612AB6
D1389248F052044000C912800062C0534000002000045CC70264C0D16FF271DC9030244E00018B018D0000008000116
C938592F9E5D709C8F23E2291480006083C0016039A000000A0002ACE65C8047887D214460794C131486A0000A42840
004702108000008000155768850243C4D1B14B726642ABD0442A002000007FE38128400000400008ADE0A7C9A50A8D6
4CC595770885C00400000FFC702908000008000116071FB935634FC4995FAAFA210B800886400400000FFC702D08000
0010001272E27F407CFBBA1F1CD1A201061002C0C54000003900054ACA28618140A22F7886A2A2D2916BA3BA0921040
0109028000848A200040C06B10000010000224091D71A978B6445ADCF4A2C0E740000029000941E6D3E18140A30E878
87F5D17232D956B488B750E4290D20002484400011607BA0000010000421897F021FFB4650CB495C32233340E824260
0008B041D0000080002111EC801100EA34C65C3ADB91164A03C5215000041118002C11740000014000946F93E408F1
10FD8A3E067FBA52845FBFB148120002A45040014704A080000080001529974A8243C4422E89919FA69521103800800
001FE8E09C10000010000224ADD622204744E8CFB14A90882400400000FF4705208000008000111FE61D11018A29067
F7A5004416002000007FA082AC0010600005C35715208F10B7E4FEC122C8001C082CC0010600011A2D190C2B5CE3E15
6669E8245480030005D80020000025A6D763001605EE40B197544
```

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

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 11,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1022
        },
        revision 0,
        refPoint {
          lat 373977143,
          long -1221063698,
          elevation 330
        },
        laneWidth 330,
        speedLimits {
          {
            type vehicleMaxSpeed,
            speed 559
          }
        },
        laneSet {
          {
            laneID 1,
            ingressApproach 1,
            laneAttributes {
              directionalUse {ingressPath},
              sharedWith {},
              laneType vehicle : {}
            },
            maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed,
              maneuverRightTurnOnRedAllowed},
            nodeList nodes : {
              {
                delta node-XY4 : {
                  x 824,
                  y 1926
                }
              },
              {
                delta node-XY5 : {
```

```

        x 2718,
        y 5534
    }
},
{
    delta node-XY6 : {
        x 3638,
        y 7590
    }
},
{
    delta node-XY4 : {
        x 1028,
        y 1922
    }
},
{
    delta node-XY5 : {
        x 3217,
        y 6389
    }
},
{
    delta node-XY5 : {
        x 2677,
        y 5572
    }
},
{
    delta node-XY5 : {
        x 2742,
        y 5428
    }
},
{
    delta node-XY3 : {
        x 736,
        y 1318
    }
},
{
    delta node-XY3 : {
        x 432,
        y 1226
    }
},
{
    delta node-XY4 : {
        x 1010,
        y 2416
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 18,
            maneuver {maneuverRightAllowed}
        },
        signalGroup 4
    },
    {
        connectingLane {
            lane 13,
            maneuver {maneuverStraightAllowed}
        },
    },

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```

    signalGroup 4
  },
  {
    connectingLane {
      lane 10,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 4
  }
}
},
{
  laneID 2,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverRightAllowed},
  nodeList nodes : {
    {
      delta node-XY4 : {
        x 1233,
        y 1749
      }
    },
    {
      delta node-XY5 : {
        x 2703,
        y 5505
      }
    },
    {
      delta node-XY6 : {
        x 3717,
        y 7563
      }
    },
    {
      delta node-XY4 : {
        x 905,
        y 1946
      }
    },
    {
      delta node-XY5 : {
        x 3175,
        y 6433
      }
    },
    {
      delta node-XY5 : {
        x 2794,
        y 5559
      }
    },
    {
      delta node-XY5 : {
        x 2653,
        y 5352
      }
    },
    {
      delta node-XY3 : {
        x 899,

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        y 1695
    }
},
{
    delta node-XY3 : {
        x 729,
        y 1193
    }
},
{
    delta node-XY4 : {
        x 968,
        y 1911
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 3,
            maneuver {maneuverStraightAllowed}
        }
    }
}
},
{
    laneID 3,
    egressApproach 2,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverLeftAllowed},
    nodeList nodes : {
        {
            delta node-LatLon : {
                lon -1221043280,
                lat 374009401
            }
        },
        {
            delta node-XY2 : {
                x 48,
                y 700
            }
        },
        {
            delta node-XY4 : {
                x 1326,
                y 2564
            }
        }
    }
}
},
{
    laneID 4,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
        maneuverRightTurnOnRedAllowed},
    nodeList nodes : {

```

```

{
  delta node-XY3 : {
    x 1798,
    y 353
  },
  attributes {
    data {
      speedLimits : {
        {
          type vehicleMaxSpeed,
          speed 782
        }
      }
    },
    dWidth 30
  }
},
{
  delta node-XY5 : {
    x 4245,
    y -2342
  }
},
{
  delta node-XY5 : {
    x 6290,
    y -3524
  }
}
},
connectsTo {
  {
    connectingLane {
      lane 2,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 6
  },
  {
    connectingLane {
      lane 18,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 5,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1635,
        y 19
      }
    },
    {
      delta node-XY5 : {
        x 4148,

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        y -2305
    }
},
{
    delta node-XY5 : {
        x 6382,
        y -3578
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 19,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 6
    }
}
},
{
    laneID 6,
    ingressApproach 3,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x 1426,
                y -245
            }
        },
        {
            delta node-XY5 : {
                x 3998,
                y -2212
            }
        },
        {
            delta node-XY5 : {
                x 6430,
                y -3599
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 20,
                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 1254,
      y -568
    },
    attributes {
      dWidth -30
    }
  },
  {
    delta node-XY4 : {
      x 3361,
      y -1908
    }
  },
  {
    delta node-XY2 : {
      x 809,
      y 19
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 13,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 1
  },
  {
    connectingLane {
      lane 10,
      maneuver {maneuverUTurnAllowed}
    },
    signalGroup 1
  }
},
{
  laneID 8,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 749,
        y -1782
      },
      attributes {
        dWidth 30
      }
    }
  }
}

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```

    },
    {
      delta node-XY5 : {
        x 5228,
        y -2889
      }
    },
    {
      delta node-XY5 : {
        x 4897,
        y -2694
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 10,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1023
      }
    }
  }
},
{
  laneID 9,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 888,
        y -1377
      }
    },
    {
      delta node-XY5 : {
        x 5281,
        y -2965
      }
    },
    {
      delta node-XY5 : {
        x 4886,
        y -2697
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 11,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1023
      }
    }
  }
}

```



```

    }
  },
  {
    laneID 10,
    egressApproach 4,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x 1038,
          y -1033
        }
      },
      {
        delta node-XY5 : {
          x 5475,
          y -3087
        }
      },
      {
        delta node-XY5 : {
          x 4799,
          y -2691
        }
      }
    },
    connectsTo {
      {
        connectingLane {
          lane 11,
          maneuver {maneuverStraightAllowed}
        }
      },
      {
        connectingLane {
          lane 12,
          maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
          region 0,
          id 1023
        }
      }
    }
  },
  {
    laneID 11,
    egressApproach 4,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverUTurnAllowed},
    nodeList nodes : {
      {
        delta node-XY5 : {
          x 6513,
          y -4120
        }
      }
    }
  }
}

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```

    },
    {
      delta node-XY2 : {
        x 927,
        y -70
      }
    },
    {
      delta node-XY4 : {
        x 3187,
        y -1839
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 6,
        maneuver {maneuverUTurnAllowed}
      }
    }
  }
},
{
  laneID 12,
  ingressApproach 5,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverLeftAllowed, maneuverRightAllowed,
    maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -667,
        y -1725
      },
      attributes {
        data {
          speedLimits : {
            {
              type vehicleMaxSpeed,
              speed 559
            }
          }
        },
        dWidth -30
      }
    },
    {
      delta node-XY4 : {
        x -1494,
        y -2651
      }
    },
    {
      delta node-XY5 : {
        x -2374,
        y -4376
      }
    }
  }
},
connectsTo {
  {

```

```

    connectingLane {
      lane 8,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 8
  },
  {
    connectingLane {
      lane 2,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 8
  },
  {
    connectingLane {
      lane 20,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 8
  }
},
{
  laneID 13,
  egressApproach 6,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1015,
        y -1577
      }
    },
    {
      delta node-XY4 : {
        x -1442,
        y -2638
      }
    },
    {
      delta node-XY5 : {
        x -2377,
        y -4278
      }
    }
  }
},
{
  laneID 14,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
    maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1805,

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```

    y -353
  },
  attributes {
    data {
      speedLimits : {
        {
          type vehicleMaxSpeed,
          speed 782
        }
      }
    },
    dWidth 30
  }
},
{
  delta node-XY5 : {
    x -4117,
    y 2233
  }
},
{
  delta node-XY4 : {
    x -2638,
    y 1453
  }
},
{
  delta node-XY5 : {
    x -3730,
    y 2162
  }
}
},
connectsTo {
  {
    connectingLane {
      lane 13,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 2
  },
  {
    connectingLane {
      lane 8,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  }
}
},
{
  laneID 15,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1655,
        y -16
      }
    }
  },

```

```

    {
      delta node-XY5 : {
        x -4099,
        y 2250
      }
    },
    {
      delta node-XY4 : {
        x -2652,
        y 1475
      }
    },
    {
      delta node-XY5 : {
        x -3687,
        y 2077
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 9,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  }
}
},
{
  laneID 16,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1475,
        y 256
      }
    },
    {
      delta node-XY5 : {
        x -4082,
        y 2259
      }
    },
    {
      delta node-XY4 : {
        x -2621,
        y 1463
      }
    },
    {
      delta node-XY5 : {
        x -3740,
        y 2063
      }
    }
  }
},
connectsTo {
  {

```

```

    connectingLane {
      lane 10,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 2
  },
  {
    connectingLane {
      lane 17,
      maneuver {maneuverStraightAllowed}
    }
  }
},
{
  laneID 17,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1156,
        y 498
      },
      attributes {
        dWidth -30
      }
    },
    {
      delta node-XY5 : {
        x -4136,
        y 2296
      }
    },
    {
      delta node-XY4 : {
        x -2053,
        y 1189
      }
    },
    {
      delta node-XY2 : {
        x -833,
        y -5
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 2,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 5
    },
    {
      connectingLane {
        lane 20,
        maneuver {maneuverUTurnAllowed}
      },
      signalGroup 5
    }
  }
}

```

```

    }
  },
  {
    laneID 18,
    egressApproach 8,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -718,
          y 1685
        },
        attributes {
          dWidth 30
        }
      },
      {
        delta node-XY5 : {
          x -3957,
          y 2201
        }
      },
      {
        delta node-XY4 : {
          x -2071,
          y 1193
        }
      }
    },
    connectsTo {
      {
        connectingLane {
          lane 3,
          maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
          region 0,
          id 1021
        }
      }
    }
  },
  {
    laneID 19,
    egressApproach 8,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x -851,
          y 1378
        }
      },
      {
        delta node-XY5 : {

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```

        x -4061,
        y 2205
    }
},
{
    delta node-XY4 : {
        x -2088,
        y 1193
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 4,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1021
        }
    }
}
},
{
    laneID 20,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1028,
                y 1082
            }
        },
        {
            delta node-XY5 : {
                x -4072,
                y 2212
            }
        },
        {
            delta node-XY4 : {
                x -2057,
                y 1184
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 5,
                maneuver {maneuverStraightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1021
            }
        }
    }
}
},

```



```

{
  laneID 21,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {hasPushToWalkButton, audioSupport}
  },
  nodeList nodes : {
    {
      delta node-XY4 : {
        x 213,
        y 2217
      },
      attributes {
        dWidth -30
      }
    },
    {
      delta node-XY3 : {
        x 1529,
        y -1029
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 22,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 14
    }
  }
},
{
  laneID 22,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {hasPushToWalkButton, audioSupport}
  },
  nodeList nodes : {
    {
      delta node-XY4 : {
        x -1868,
        y -890
      }
    },
    {
      delta node-XY3 : {
        x 860,
        y 1598
      }
    },
    {
      delta node-XY3 : {
        x 716,
        y 1341
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 21,
        maneuver {maneuverRightAllowed}
      }
    }
  }
}

```

```
    },
    signalGroup 12
  }
}
},
{
  laneID 23,
  laneAttributes {
    directionalUse {ingressPath, egressPath},
    sharedWith {},
    laneType crosswalk : {}
  },
  nodeList nodes : {
    {
      delta node-XY6 : {
        x 9943,
        y -7424
      }
    },
    {
      delta node-XY3 : {
        x 1035,
        y 1480
      }
    },
    {
      delta node-XY3 : {
        x 1125,
        y 1361
      }
    }
  }
}
}
}
}
}
}
}
```