

Intersection: Churchill Ave at El Camino Real, Palo Alto, California

MapData payload size 641

```
payload=0012827D28093119000003EB00A5FA54D9913D3F53084B01680288BC08B0045000000240011CD0F0161CBD338
39D6F78243880010B0085000000640055629705023882BC4CBE255D16AC0AE8325C98D16D402C6BD5C2CB4D4E610A43
C800112128000830064400000400032B5273DC11C41D3CED603CAE6F7457739744C77B66F16166B5133CBE21C568370
A6400000FAC0A97E9536644F4FD4C212C05A00A30E0C2C0434000002900045CA0E0C4B8D504B2CB6E33AA0A40C80019
21D0000C580A6800000400008B5818C897299FEA5969C676F0487C000316031A000001000022C4B53F25D1E7F416596
19E1412210000C380E84000004000089EE03C47A66249966C9189B8221F001000003EC1C08420000020000451963823
D4991A8B356CC5941110800800001F60E04A10000010000229BD2B91E9C092C59AD3629B0888C00400000FB0B029D00
00008000310A8BE290CB3D7488815E466431D363D2B19A4F878241E00008B02DD00000080003112445790C90D764881
BE45A4312365D2B1CDCF990242200008B031D0000008000311B34C890C50D84087EEE588432E35AF2B1CB4FA7024260
0008B035D000000500015239D3D023C444D0EDFF19E1B23A290340005488080028E0741000001000062781EB9220BB8
A815AB2262948752E7BC56200A06E0884400400000FA8703E0800000800031367EAA91028C620AD5F9306A439933F92
B102D07F84426002000007D4382104000004000189796FE48814633456AC198A621D239CB9587AE83A0221500100000
3EA22000007D6094BF4A9B3227A7EA6109602940248232C0010680021C92B2C419E42D058A46DA1B65A3012244000C4
8254C0010600021E50281E149C5D046A669E22FD3330488A00040
```

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

```
value MessageFrame ::= {
  messageId 18,
  value MapData : {
    msgIssueRevision 9,
    layerType intersectionData,
    intersections {
      {
        id {
          region 0,
          id 1003
        },
        revision 0,
        refPoint {
          lat 374325427,
          long -1221546841,
          elevation 150
        },
        laneWidth 360,
        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 835,
                  y 2059
                }
              },
              {
                delta node-XY2 : {
                  x 606,
                  y 206
                }
              }
            }
          }
        }
      }
    }
  }
}
```

```

    },
    {
      delta node-XY2 : {
        x 629,
        y 495
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 14,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 4
    }
  }
},
{
  laneID 2,
  ingressApproach 1,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed, maneuverRightAllowed, maneuverRightTurnOnRedAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1106,
        y 1546
      },
      attributes {
        dWidth -60
      }
    },
    {
      delta node-XY3 : {
        x 964,
        y 1214
      }
    },
    {
      delta node-XY5 : {
        x 2792,
        y 3416
      }
    },
    {
      delta node-XY3 : {
        x 928,
        y 1175
      }
    },
    {
      delta node-XY5 : {
        x 4514,
        y 5792
      }
    },
    {
      delta node-XY3 : {
        x 1131,
        y 1372
      }
    }
  }
}

```

```

    },
    {
      delta node-XY6 : {
        x 5786,
        y 7362
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 15,
        maneuver {maneuverRightAllowed}
      },
      signalGroup 4
    },
    {
      connectingLane {
        lane 9,
        maneuver {maneuverLeftAllowed}
      },
      signalGroup 4
    }
  }
},
{
  laneID 3,
  egressApproach 2,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1353,
        y 1271
      },
      attributes {
        dWidth -60
      }
    },
    {
      delta node-XY4 : {
        x 1267,
        y 1712
      }
    },
    {
      delta node-XY4 : {
        x 2396,
        y 3037
      }
    },
    {
      delta node-XY3 : {
        x 953,
        y 1210
      }
    },
    {
      delta node-XY5 : {
        x 4574,
        y 5743
      }
    }
  }
}

```

```

    }
  },
  {
    delta node-XY3 : {
      x 1068,
      y 1386
    }
  },
  {
    delta node-XY5 : {
      x 5067,
      y 6279
    }
  },
  {
    delta node-XY3 : {
      x 833,
      y 901
    }
  }
}
},
{
  id {
    region 0,
    id 1003
  },
  revision 1,
  refPoint {
    lat 374325427,
    long -1221546841,
    elevation 150
  },
  laneWidth 360,
  speedLimits {
    {
      type vehicleMaxSpeed,
      speed 782
    }
  },
  laneSet {
    {
      laneID 4,
      ingressApproach 3,
      laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
      },
      maneuvers {maneuverStraightAllowed, maneuverRightAllowed,
        maneuverRightTurnOnRedAllowed},
      nodeList nodes : {
        {
          delta node-XY3 : {
            x 1616,
            y -250
          }
        },
        {
          delta node-XY5 : {
            x 3637,
            y -4021
          }
        }
      },
    }
  },

```

```

    {
      delta node-XY6 : {
        x 5852,
        y -6316
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverRightAllowed}
    },
    signalGroup 6
  },
  {
    connectingLane {
      lane 14,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 5,
  ingressApproach 3,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x 1376,
        y -462
      }
    },
    {
      delta node-XY5 : {
        x 3667,
        y -4107
      }
    },
    {
      delta node-XY6 : {
        x 5788,
        y -6289
      }
    }
  },
connectsTo {
  {
    connectingLane {
      lane 15,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 6,
  ingressApproach 3,

```

```

laneAttributes {
  directionalUse {ingressPath},
  sharedWith {},
  laneType vehicle : {}
},
maneuvers {maneuverStraightAllowed},
nodeList nodes : {
  {
    delta node-XY3 : {
      x 1099,
      y -705
    }
  },
  {
    delta node-XY5 : {
      x 3727,
      y -4120
    }
  },
  {
    delta node-XY6 : {
      x 5720,
      y -6267
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 16,
      maneuver {maneuverStraightAllowed}
    },
    signalGroup 6
  }
}
},
{
  laneID 7,
  egressApproach 4,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -72,
        y -1807
      }
    },
    {
      delta node-XY4 : {
        x 2662,
        y -2925
      }
    },
    {
      delta node-XY6 : {
        x 6948,
        y -7570
      }
    }
  }
},
connectsTo {

```

```

    {
      connectingLane {
        lane 15,
        maneuver {maneuverStraightAllowed}
      },
      remoteIntersection {
        region 0,
        id 1004
      }
    }
  },
  {
    laneID 8,
    egressApproach 4,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {
          x 203,
          y -1599
        }
      },
      {
        delta node-XY4 : {
          x 2707,
          y -2966
        }
      },
      {
        delta node-XY6 : {
          x 6838,
          y -7478
        }
      }
    },
    connectsTo {
      {
        connectingLane {
          lane 16,
          maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
          region 0,
          id 1004
        }
      }
    }
  },
  {
    laneID 9,
    egressApproach 4,
    laneAttributes {
      directionalUse {egressPath},
      sharedWith {},
      laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
      {
        delta node-XY3 : {

```

```

        x 445,
        y -1351
    }
},
{
    delta node-XY4 : {
        x 2672,
        y -2922
    }
},
{
    delta node-XY6 : {
        x 6867,
        y -7525
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 17,
            maneuver {maneuverStraightAllowed}
        },
        remoteIntersection {
            region 0,
            id 1004
        }
    }
}
},
{
    laneID 10,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1711,
                y -59
            }
        },
        {
            delta node-XY5 : {
                x -4941,
                y 5586
            }
        },
        {
            delta node-XY5 : {
                x -4053,
                y 4659
            }
        },
        {
            delta node-XY5 : {
                x -5004,
                y 5693
            }
        },
        {
            delta node-XY6 : {

```



```

        x -7372,
        y 7951
    }
}
},
connectsTo {
    {
        connectingLane {
            lane 7,
            maneuver {maneuverStraightAllowed}
        },
        signalGroup 2
    }
}
},
{
    laneID 11,
    ingressApproach 7,
    laneAttributes {
        directionalUse {ingressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -1464,
                y 175
            }
        },
        {
            delta node-XY5 : {
                x -4976,
                y 5593
            }
        },
        {
            delta node-XY5 : {
                x -4041,
                y 4653
            }
        },
        {
            delta node-XY5 : {
                x -5048,
                y 5725
            }
        },
        {
            delta node-XY6 : {
                x -7269,
                y 7986
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 8,
                maneuver {maneuverStraightAllowed}
            },
            signalGroup 2
        }
    }
},

```

```

{
  laneID 12,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -1178,
        y 401
      }
    },
    {
      delta node-XY5 : {
        x -5040,
        y 5648
      }
    },
    {
      delta node-XY5 : {
        x -4131,
        y 4804
      }
    },
    {
      delta node-XY5 : {
        x -4936,
        y 5551
      }
    },
    {
      delta node-XY6 : {
        x -7274,
        y 8014
      }
    }
  },
  connectsTo {
    {
      connectingLane {
        lane 9,
        maneuver {maneuverStraightAllowed}
      },
      signalGroup 2
    }
  }
},
{
  laneID 13,
  ingressApproach 7,
  laneAttributes {
    directionalUse {ingressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverLeftAllowed, maneuverUTurnAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -909,
        y 634
      }
    },
  },

```

```

    attributes {
      dWidth -30
    }
  },
  {
    delta node-XY5 : {
      x -3261,
      y 3583
    }
  },
  {
    delta node-XY4 : {
      x -2170,
      y 2333
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 3,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 5
  },
  {
    connectingLane {
      lane 16,
      maneuver {maneuverUTurnAllowed}
    },
    signalGroup 5
  }
}
},
{
  laneID 14,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -127,
        y 1721
      }
    },
    {
      delta node-XY5 : {
        x -4003,
        y 4432
      }
    },
    {
      delta node-XY6 : {
        x -5432,
        y 6309
      }
    },
    {
      delta node-XY5 : {
        x -4443,
        y 5086
      }
    }
  }
}

```

```

    }
  },
  {
    delta node-XY6 : {
      x -7680,
      y 8302
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 8,
      maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
      region 0,
      id 1002
    }
  }
}
},
{
  laneID 15,
  egressApproach 8,
  laneAttributes {
    directionalUse {egressPath},
    sharedWith {},
    laneType vehicle : {}
  },
  maneuvers {maneuverStraightAllowed},
  nodeList nodes : {
    {
      delta node-XY3 : {
        x -305,
        y 1365
      }
    },
    {
      delta node-XY5 : {
        x -4056,
        y 4488
      }
    },
    {
      delta node-XY6 : {
        x -5380,
        y 6197
      }
    },
    {
      delta node-XY5 : {
        x -4508,
        y 5113
      }
    },
    {
      delta node-XY6 : {
        x -7675,
        y 8447
      }
    }
  },
  connectsTo {
    {
      connectingLane {

```

```

        lane 9,
        maneuver {maneuverStraightAllowed}
    },
    remoteIntersection {
        region 0,
        id 1002
    }
}
},
{
    laneID 16,
    egressApproach 8,
    laneAttributes {
        directionalUse {egressPath},
        sharedWith {},
        laneType vehicle : {}
    },
    maneuvers {maneuverStraightAllowed},
    nodeList nodes : {
        {
            delta node-XY3 : {
                x -539,
                y 1017
            }
        },
        {
            delta node-XY5 : {
                x -4056,
                y 4506
            }
        },
        {
            delta node-XY6 : {
                x -5439,
                y 6310
            }
        },
        {
            delta node-XY5 : {
                x -4463,
                y 5015
            }
        },
        {
            delta node-XY6 : {
                x -7701,
                y 8424
            }
        }
    },
    connectsTo {
        {
            connectingLane {
                lane 10,
                maneuver {maneuverStraightAllowed}
            },
            remoteIntersection {
                region 0,
                id 1002
            }
        }
    }
}
},

```

```

{
  id {
    region 0,
    id 1003
  },
  revision 2,
  refPoint {
    lat 374325427,
    long -1221546841,
    elevation 150
  },
  laneWidth 330,
  laneSet {
    {
      laneID 17,
      ingressApproach 9,
      laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport,
          unsignalizedSegmentsPresent}
      },
      nodeList nodes : {
        {
          delta node-XY4 : {
            x 586,
            y 2402
          }
        },
        {
          delta node-XY2 : {
            x 242,
            y -844
          }
        },
        {
          delta node-XY3 : {
            x 1106,
            y -1171
          }
        },
        {
          delta node-XY2 : {
            x 434,
            y 652
          }
        }
      },
      connectsTo {
        {
          connectingLane {
            lane 18,
            maneuver {maneuverRightAllowed}
          },
          signalGroup 6
        }
      }
    },
    {
      laneID 18,
      ingressApproach 10,
      laneAttributes {
        directionalUse {ingressPath, egressPath},
        sharedWith {},
        laneType crosswalk : {hasPushToWalkButton, audioSupport}
      },
    },
  },
}

```

```
nodeList nodes : {
  {
    delta node-XY4 : {
      x 2368,
      y 1039
    }
  },
  {
    delta node-XY2 : {
      x -434,
      y -652
    }
  },
  {
    delta node-XY3 : {
      x -1197,
      y -1201
    }
  },
  {
    delta node-XY3 : {
      x -1283,
      y -1229
    }
  }
},
connectsTo {
  {
    connectingLane {
      lane 17,
      maneuver {maneuverLeftAllowed}
    },
    signalGroup 8
  }
}
}
}
}
}
}
```