

CITY OF MENIFEE

PUBLIC WORKS DEPARTMENT



STANDARD DETAILS

2016

CITY OF MENIFEE
PUBLIC WORKS DEPARTMENT



**CITY OF MENIFEE
ENGINEERING DEPARTMENT**

MEMORANDUM

Date: April 7, 2014

From: Jonathan Smith, PE, QSD

To: Engineering, Planning, Building and Public Works Department.

Subject: **Newly Approved City of Menifee Standard Details and Specifications**

All,

Effective April 7, 2014. The City of Menifee Engineering/Public Works Department has prepared the following "Standard Details and Specifications" to be used for all public construction projects within the City of Menifee. All City plan review personnel and field inspectors shall become familiar with these standards details and shall notify all developers and agencies of its use.

Where standard details have not yet been revised by the City of Menifee, the Riverside County Road Improvement Standards and corresponding public utility agency standards details shall be used.

Sincerely,

Jonathan G. Smith, P.E., QSD
City Engineer/Public Works Director
City of Menifee
29714 Haun Road
Menifee, CA 92586

Enclosures: City of Menifee Standard Details and Specifications

INDEX - PAGE 1

GENERAL PLAN EXPRESSWAY AND ARTERIALS

90	EXPRESSWAY - 8 LANES
91	EXPRESSWAY - 6 LANES
95	URBAN ARTERIAL - 8 LANES
96	URBAN ARTERIAL - 6 LANES
97	ARTERIAL - 4 LANES

GENERAL PLAN STREETS

110	MAJOR - 4 LANES
111	SECONDARY - 4 LANES
112	INDUSTRIAL COLLECTOR
113	COLLECTOR
114	ENHANCED LOCAL STREET
115	GENERAL LOCAL

MEDIANS

120	LANDSCAPE MEDIAN
121	MEDIAN MAINTENANCE APRON

RURAL ROADS AND PRIVATE STREETS

130	RURAL COLLECTOR
131	RURAL LOCAL
140	QUAIL VALLEY 40'-50' RW
141	QUAIL VALLEY 20' RW
150	PRIVATE STREET RESIDENTIAL
155	STREET DESIGN REQUIREMENTS

CURBS AND DRIVEWAYS

200	TYPE 6 CURB AND GUTTER
201	TYPE 8 CURB AND GUTTER
202	TYPE 6A CURB
203	TYPE 8A CURB
204	ASPHALT BERM
205	RESIDENTIAL DRIVEWAY APPROACH (RECONSTRUCTION)
206	RESIDENTIAL DRIVEWAY APPROACH (NEW CONSTRUCTION)
207	RESIDENTIAL DRIVEWAY APPROACH LOCATION
208	COMMERCIAL DRIVEWAY APPROACH
209	CROSS GUTTER AND SPANDREL
210	RIBBON GUTTER
211	CONCRETE JOINTS
212	TYPE C CURB AND GUTTER
213	TYPE D CURB AND GUTTER

DRAINAGE

300	RESIDENTIAL LOT GRADING
301	PRIVATE UNDERSIDEWALK DRAIN
303	ASPHALT CONCRETE OVERSIDE DRAIN

SIDEWALKS

400	SIDEWALK
401	MEANDERING SIDEWALK
402	SIDEWALK AROUND OBSTRUCTIONS
405	PEDESTRIAN RAMP TYPE I
406	PEDESTRIAN RAMP TYPE II

REVISIONS

4/15/2015	
8/15/2015	
2/15/2016	

INDEX - PAGE 2

SEWERS

REFER TO EASTERN WATER MUNICIPAL DISTRICT (EMWD)
FOR STANDARDS AND SPECIFICATIONS

WATER

705 BLUE DOT TYPE I MARKER PLACEMENT

REFER TO EASTERN WATER MUNICIPAL DISTRICT (EMWD)
FOR OTHER STANDARDS AND SPECIFICATIONS

GEOMETRICS

802 PRIVATE STREET GATE STANDARD
803 PROPERTY LINE CUT-BACK
804 MEDIAN TAPER
805 MEDIAN FLARE
807 BUS TURNOUT
811 PARKWAY UTILITY TRENCH
812 TRENCH BACKFILL AND ROADWAY REPAIR
813 EMERGENCY PLATE BRIDGING OF
EXCAVATIONS
814 ADJUST MANHOLE TO GRADE
815 STREET NAME SIGN
816 STREET NAME SIGN LOCATION
817 SIGN POST INSTALLATION
818 INTERSECTION SIGHT DISTANCE
819 PROJECT SIGN

MONUMENTING

900 PILASTER MONUMENT SIGN
901 MONUMENT PLAQUE

LIGHTING

1000 STREET LIGHT LOCATIONS
1001 STREET LIGHTS SERVICE CABINET
1002 LED STREET LIGHTS - FOR LOCAL,
ARTERIAL, MAJOR AND COLLECTOR STREETS
1003 STREET LIGHT FOUNDATION WITH PULL BOX
1004 PULL BOX DETAIL
1005 CONDUIT INSTALLATION
1006 FIBER OPTIC VAULT DETAIL
1007 CAMERA ADAPTOR PLATE DETAIL

TRAFFIC

1200 STOP SIGN INSTALLATION
1201 STOP BAR PLACEMENT
1202 MARBELITE SIGN INSTALLATION

REVISIONS

4/15/2015	
8/15/2015	

INDEX – PAGE 3

1301.00 LANDSCAPE CONSTRUCTION

- 1301.01 CONCRETE FLATWORK
- 1301.02 CONCRETE MOW CURB
- 1301.03 DECOMPOSED GRANITE TRAIL
- 1301.04 PVC FENCING AND MOW CURB
- 1301.05 PVC FENCING SIDE VIEW – 3 RAIL
- 1301.06 PVC FENCING SIDE VIEW – 2 RAIL
- 1301.07 TRAIL CROSS SECTION
- 1301.08 TUBULAR STEEL FENCE
- 1301.09 TUBULAR STEEL GATE
- 1301.10 BOULDER PLACEMENT
- 1301.11 TRASH ENCLOSURE – PLAN VIEW
- 1301.12 TRASH ENCLOSURE – SIDE ELEVATION
- 1301.13 TRASH ENCLOSURE – FRONT ELEVATION
- 1301.14 TRASH ENCLOSURE – DOOR ENLARGEMENT
- 1301.15 ARTIFICIAL TURF – PARKWAY ONLY
- 1301.16 COBBLE PAVING W/ CONCRETE BAND
- 1301.17 NOT USED
- 1301.18 DRINKING FOUNTAIN DRAINAGE

1302.00 LANDSCAPE IRRIGATION

- 1302.01 CONTROLLER IN STAINLESS STEEL ENCLOSURE
- 1302.02 CONTROLLER IN STAINLESS STEEL ENCLOSURE
- 1302.03 BOOSTER PUMP
- 1302.04 MASTER CONTROL VALVE
- 1302.05 FLOW SENSOR
- 1302.06 QUICK COUPLING VALVE
- 1302.07 REMOTE CONTROL VALVE
- 1302.08 PRESSURE REGULATING VALVE
- 1302.09 BRASS BALL VALVE
- 1302.10 BRASS BALL VALVE WITH UNION
- 1302.11 PVC BLOCKED TRUE UNION BALL VALVE
- 1302.12 MANIFOLD TYPICAL LAYOUT
- 1302.13 TRENCHING & PIPE INSTALLATION
- 1302.14 SLEEVING UNDER PAVEMENT
- 1302.15 THRUST BLOCK – 3" MAIN AND SMALLER
- 1302.16 PRESSURE MAINLINE STREET CROSSING
- 1302.17 WIRE CONNECTION LOW VOLUME
- 1302.18 PULL BOX
- 1302.19 ROTOR POP-UP
- 1302.20 SHRUB ROTOR ON RISER
- 1302.21 POP-UP SPRAY HEAD
- 1302.22 SHRUB FIXED RISER SPRAY HEAD
- 1302.23 SHRUB ROTOR ON RISER ON SLOPE

1302.00 LANDSCAPE IRRIGATION (CONT.)

- 1302.24 SHRUB SPRAY HEAD ON RISER ON SLOPE
- 1302.25 LOW VOLUME REMOTE CONTROL VALVE
- 1302.26 CHECK VALVE & PRESSURE REGULATOR
- 1302.27 POINT TO POINT IRRIGATION
- 1302.28 SHRUB EMITTER ASSEMBLY LAYOUT
- 1302.29 TREE EMITTER ASSEMBLY LAYOUT
- 1302.30 EMITTER ASSEMBLY SECTION VIEW
- 1302.31 TREE ROOT BUBBLER
- 1302.32 SUBSURFACE TUBING INSTALLATION
- 1302.33 SUBSURFACE PIPE & TUBING END FED LAYOUT
- 1302.34 SUBSURFACE PIPE & TUBING CENTER FED LAYOUT
- 1302.35 MANUAL FLUSH VALVE
- 1302.36 AIR VACUUM RELIEF ON PVC
- 1302.37 AIR VACUUM RELIEF ON DRIP TUBING
- 1302.38 DRIP TUBING START CONNECT
- 1302.39 IRRIGATION SCREEN FILTER
- 1302.40 RESTRAINED GATE VALVE
- 1302.41 ISOLATION GATE VALVE
- 1302.42 IRRIGATION FILTER

1303.00 LANDSCAPE PLANTING

- 1303.01 PLANT SPACING – FLATS OR CONTAINERS
- 1303.02 SHRUB PLANTING – LEVEL GRADE
- 1303.03 TREE OR SHRUB PLANTING ON SLOPE
- 1303.04 VINE PLANTING
- 1303.05 TREE PLANTING AND STAKING/5-15 GALLON
- 1303.06 TREE PLANTING AND STAKING/24"-36" BOX
- 1303.07 TREE GUYING/48" BOX
- 1303.08 ROOT CONTROL BARRIER
- 1303.09 PALM TREE PLANTING
- 1303.10 TREE PLANTING IN TURF
- 1303.11 LANDSCAPE RESTRICTION ZONE- INTERSECTIONS AND DRIVEWAYS

REVISIONS	
8/15/2015	
2/15/2016	

TRAFFIC CONTROL PLANS

GENERAL INFORMATION

THE CITY OF MENIFEE TRAFFIC CONTROL PLAN STANDARDS ARE COMPILED BY UTILIZING PREVIOUSLY DEVELOPED AND STATE APPROVED TRAFFIC CONTROL PLANS CREATED BY THE 2010 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE 2010 CALIFORNIA JOINT UTILITIES TRAFFIC CONTROL MANUAL (CJUTCM). THESE MANUALS IN COMBINATION ARE ISSUED TO PROVIDE THE BASIC STANDARD FOR THE UNIFORM TYPES OF WARNING DEVICES, LIGHTS, AND OTHER DEVICES PLACED UPON ANY PUBLIC ROADWAY OR STREET. ANY PERSON ENGAGED IN PERFORMING WORK THAT INTERFERES WITH OR ENDANGERS THE MOVEMENT OF TRAFFIC UPON A STREET OR HIGHWAY MUST DO SO SAFELY IN ACCORDANCE WITH SECTIONS 21367 AND 21400 OF THE CALIFORNIA CODE.

THE TYPICAL APPLICATION DRAWING FOUND IN THIS CHAPTER CAN BE USED BY ANY INDIVIDUAL, UTILITY OR CONTRACTOR WHO NEEDS TO PROVIDE TEMPORARY TRAFFIC CONTROL TO COMPLETE THEIR WORK. BEFORE DOING ANY WORK IN THE CITY PUBLIC RIGHT OF WAY, AN ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE CITY AND SHALL BE IN THE POSSESSION OF THE CONTRACTOR AT ALL TIMES THROUGHOUT THE CONSTRUCTION OPERATIONS.

BEFORE WORK BEGINS, TRAFFIC CONTROL PLANS ADDRESSING VEHICLE, BIKE, AND PEDESTRIAN TRAFFIC THROUGH A CONSTRUCTION ZONE WILL NEED TO BE APPROVED BY THE CITY. NOTHING CONTAINED IN THIS CHAPTER SHALL PREVENT THE CITY FROM MODIFYING, CHANGING, OR ADOPTING NEW SPECIFICATIONS DEEMED NECESSARY. THE TEXT AND TYPICAL DRAWINGS IN THIS CHAPTER ARE NOT A LEGAL STANDARD. CRITERIA FOR POSITION, LOCATION, AND USE OF TRAFFIC CONTROL DEVICES ARE FURNISHED SOLELY FOR THE PURPOSE OF GUIDANCE AND INFORMATION TO ASSIST IN THE PREPARATION OF TEMPORARY TRAFFIC CONTROL PLANS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR ORGANIZATION PERFORMING THE WORK ON, OR ADJACENT TO, A ROADWAY TO INSTALL AND MAINTAIN THE PROPER TRAFFIC CONTROL DEVICES WHICH ARE NECESSARY TO PROVIDE SAFETY FOR BOTH THE TRAVELING PUBLIC AND THE WORKERS.

APPROVED BY:



4/15/2014

DIRECTOR OF PUBLIC WORKS
JONATHAN GEORGE SMITH

DATE



CITY OF MENIFEE

GENERAL INFORMATION

REVISION	BY:	APPROVED	DATE

STANDARD PLAN NO. **1230** SHEET **1** OF **1**

TRAFFIC CONTROL PLANS

TABLE OF CONTENTS

1230	GENERAL INFORMATION
1231	TABLE OF CONTENTS
1232	TYPICAL CONSTRUCTION SIGNS
1233	DEVICE SPACING TABLES
1234	NOT USED
1235	SIDE OF THE ROAD - ROAD W/O CENTERLINE
1236	SIDE OF THE ROAD - TWO LANE W/ CENTERLINE
1237	MULTI-LANE EDGE OF GUTTER CLOSURE
1238	SIDE OF ROAD - SHOULDER CLOSED
1239	CENTER OF ROAD - TWO LANE W/O CENTERLINE
1240	SIDE OF ROAD - TWO LANE W/ FLAGGERS ONE LANE CLOSED
1241	SIDE OF ROAD - MULTILANE W/ CENTERLINE ONE LANE CLOSED
1242	SIDE OF ROAD - MULTILANE W/ CENTERTURN 1 LANE CLOSED
1243	SIDE OF ROAD - MULTILANE W/ MEDIAN 1 LANE CLOSED
1244	CENTER OF ROAD - MULTILANE W/ CENTERLINE RIGHT 2 LANES CLOSED
1245	SIDE OF ROAD - MULTILANE W/ CENTERLINE LEFT 1 LANE CLOSED
1246	SIDE OF ROAD - MULTILANE W/ MEDIAN LEFT 1 LANE CLOSED
1247	CENTER OF ROAD - MULTILANE W/ CENTERLINE LEFT LANE CLOSED
1248	CENTER OF ROAD - MULTILANE W/ CENTERTURN CENTER AND LANES CLOSED
1249	SIDE OF ROAD - MULTILANE W/ CENTERTURN LANE CLOSED
1250	CENTER OF ROAD - MULTILANE W/ CENTERTURN CLOSURE
1251	SIDE OF ROAD - SINGLE LEFT LANE CLOSURE ONE WAY STREET
1252	CENTER OF ROAD - DOUBLE LEFT LANE CLOSURE ONE WAY STREET
1253	SIDE OF ROAD - SINGLE RIGHT LANE CLOSURE ONE WAY STREET
1254	CENTER OF ROAD - DOUBLE RIGHT LANE CLOSURE ONE WAY STREET
1255	CENTER OF ROAD - MULTILANE W/ CENTERTURN AS 2 RIGHT LANES
1256	CENTER OF ROAD - MULTILANE CLOSURE OF CENTERTURN & 2 RT LANE
1257	SIDE OF ROAD - MULTILANE CLOSURE OF CENTERTURN & 1 LEFT LANE
1258	SIDE OF ROAD - MULTILANE W/ MEDIAN LEFT 2 LANES CLOSED
1259	SIDE OF ROAD - MULTILANE W/ MEDIAN RIGHT 2 LANES CLOSED
1260	CENTER OF ROAD - MULTILANE MIDDLE LANE CLOSED
1261	SIDE OF ROAD MULTILANE BEYOND INTERSECTION RIGHT 1 LANE CLOSED
1262	SIDE OF ROAD - MULTILANE BEYOND INTERSECTION LEFT LANE CLOSED
1263	SIDE OF ROAD - MULTILANE BEYOND INTERSECTION LEFT 1 LANE CLOSED
1264	CENTER OF ROAD - MULTILANE INTERSECTION LEFT LANE CLOSED
1265	CENTER OF ROAD - MULTILANE MIDDLE INTERSECTION
1266	CENTER OF ROAD - MULTILANE MIDDLE INTERSECTION W/ MEDIANS & TURNS
1267	SIDE OF ROAD - BEYOND INTERSECTION PARKING AREA CLOSED
1268	SIDE OF ROAD - BEYOND INTERSECTION TRAFFIC SHIFT TO PARKING AREA
1269	SIDE OF ROAD - MULTILANE INTERSECTION RIGHT LANE CLOSED
1270	CENTER OF ROAD - MULTILANE INTERSECTION LANES CLOSED 2 DIRECTIONS

APPROVED BY:



4/15/2014

DIRECTOR OF PUBLIC WORKS
JONATHAN GEORGE SMITH

DATE



CITY OF MENIFEE

TABLE OF CONTENTS

REVISION	BY:	APPROVED	DATE

STANDARD PLAN NO. **1231** SHEET **1** OF **2**

TRAFFIC CONTROL PLANS

TABLE OF CONTENTS

1271	SIDE OF ROAD - MULTILANE LEFT TURN LANE CLOSED
1272	SIDE OF ROAD - MULTILANE LEFT TURN RIGHT LANE CLOSED
1273	SIDE OF ROAD - MULTILANE 2 LEFT TURN LANES, 1 CLOSED LEFT LANE CLOSED
1274	SIDE OF ROAD - MULTILANE 2 LEFT TURN LANES, 1 CLOSED RIGHT LANE CLOSED
1275	SIDE OF ROAD - MULTILANE RIGHT TURN & LANE CLOSED
1276	SIDE OF ROAD - MULTILANE RIGHT TURN AND LEFT LANE CLOSED
1277	SIDE OF ROAD - MULTILANE 1 RIGHT TURN & LANE CLOSED
1278	SIDE OF ROAD - MULTI-LANE REDUCED RIGHT TURN LANES
1279	CENTER OF ROAD - RIGHT/LEFT TURN
1280	CENTER OF ROAD - MULTILANE CLOSED LEFT TURN LANES
1281	CENTER OF ROAD - RIGHT/LEFT LANES CLOSED
1282	CENTER OF ROAD - MULTILANE RIGHT/CENTER LANES CLOSED ONE WAY
1283	CENTER OF ROAD -MULTILANE LEFT AND CENTER LANES CLOSED
1284	SIDE OF ROAD - MULTILANE RIGHT/LEFT CLOSED
1285	CENTER OF ROAD - MULTILANE RIGHT/LEFT LANES CLOSED
1286	CENTER OF ROAD - MULTILANE RIGHT/LEFT LANES CLOSED
1287	SIDE OF ROAD - HALF STREET CLOSED (1 OF 2)
1288	SIDE OF ROAD - HALF STREET CLOSED (2 OF 2)
1289	CENTER OF ROAD - FULL STREET CLOSURE - 1 WAY
1290	CENTER OF ROAD - FULL STREET CLOSURE - 2 DIRECTIONS
1291	SIDEWALK - SIDEWALK CLOSED
1292	SIDEWALK - SIDEWALK CLOSED 1/2 BLOCK W/ MID BLOCK CROSSING
1293	SIDEWALK - SIDEWALK CLOSED & SHIFT TO PARKING AREA

APPROVED BY:



4/15/2014

DIRECTOR OF PUBLIC WORKS
JONATHAN GEORGE SMITH

DATE



CITY OF MENIFEE

TABLE OF CONTENTS

REVISION	BY:	APPROVED	DATE

STANDARD PLAN NO. **1231** SHEET **2** OF **2**