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NOTES
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
4. LOCATE CONTROLLER IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.
5. SEE "TYPICAL POINT-OF-CONNECTION LAYOUT" DETAIL I-21 FOR CITY & LMD PROJECTS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL AUTOMATIC CONTROLLER WITH TOP-LOAD ENCLOSURE (OUTDOORS)

REVISIONS

STANDARD DETAIL

I-1
ELECTRIC METER ENCLOSURE WITH MOUNTING BASE PER LEGEND. MYERS MEUG-20, OR EQUAL. MOUNT BASE TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS.

GROUNDING REQUIREMENT TO BE PROVIDED PER ELECTRICAL ENGINEER

METER SECTION

CUSTOMER EQUIPMENT AREA

MOUNTING BASE

1/2"-13 OR 5/8"-18 BOLTS SUPPLIED WITH BASE

FINISH SURFACE PER PLAN

FINISH GRADE

6" THICK MINIMUM CONCRETE BASE

1/2" OR 5/8" ANCHOR BOLTS AS REQUIRED

CONDUIT PER ELECTRICAL ENGINEER

NOTES
1. LOCATE METER ENCLOSURE IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.
2. 36" MINIMUM CLEARANCE REQD. PER NEC 110-16, TYPICAL FRONT AND BACK. 10" MINIMUM CLEARANCE, SIDES.
3. PROVIDE GROUNDING PER ELECTRICAL ENGINEER.

SCALE: NTS

CITY OF PALMDALE
TYPICAL ELECTRIC METER ENCLOSURE (OUTDOORS)

ENGINEERING PLANNING PUBLIC WORKS

REVISIONS

APPROVED BY ABOVE DATE IMPLEMENTED 07/01/07

I-2
12"x18" PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUND COVER AREAS.

CURL TYPE EXPANSION LOOP (MIN. 24"

WATERPROOF WIRE CONNECTION

CHRISTY'S I.D. TAG (STANDARD) SECURE TO SOLENOID PIGTAIL

12"

OR AS NOTED

SIDEWALK, CURB, ETC.

ELECTRIC REMOTE CONTROL VALVE PER LEGEND

3" PVC SCH-80 NIPPLE (TYP. 3 PLACES)

PVC SCH-80 TXT UNION (2 PLACES)

PVC SXT BUSHING

RED BRICK SUPPORTS, TYPICAL. 4 TOTAL REQUIRED, ONE EACH SIDE.

PVC SUPPLY LINE FITTING (SxS)

PVC SUPPLY LINE FITTING (SxSxS)

MINIMUM 6" DEPTH PEA GRAVEL

PVC SCH-80 TXT UNION

PVC SCH. 40 MALE ADAPTOR

PVC LATERAL LINE

COMMON AND CONTROL WIRES UNDER SUPPLY LINE

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
4. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.
5. WATERPROOF CONNECTORS TO BE UL LISTED (3M DBR-6 OR DBY-6) ON CITY & LMD PROJECTS.

SCALE: NTS

CITY OF PALMDALE

TYP. REMOTE CONTROL VALVE (STRAIGHT TYPE)

REVISIONS

STANDARD

DETAIL

I-3

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
1. Valves are to be installed in shrub areas unless otherwise noted.
2. Box to be placed at right angle to hardscape edge.
3. When more than one valve is located in the same area, provide a space a minimum of 3 feet apart.
4. Use Teflon tape on all threaded male fittings.
5. Waterproof connectors to be UL listed (3M DBY-6 or DBR-6) on City & LMD projects only.

CITY OF PALMDALE

Typ. Remote Control Valve (Angle Type)

[Diagram with annotations]

NOTES:

- Minimum 6" depth pea gravel
- PVC Sch. 40 Male Adaptor
- PVC Lateral Line
- Common and control wires under supply line
- Electric remote control valve per legend
- PVC Sch-80 Nipple, typ. 3 places
- PVC Sch-80 Union, typ. 2 places
- Red brick supports, typical. 4 total required, one each side.
- Waterproof wire connection
- Christy's I.D. tag (standard) secure to solenoid pigtail
- Curl type expansion loop (min. 24"

Scale: NTS

City of Palmdale

Typ. Remote Control Valve

(ANGLE TYPE)

[Signatures and dates]

Revisions

1-4

Engineering Planning Public Works

Approved by above Date implemented 07/01/07
10" ROUND PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUNDCOVER AREAS

#4 REBAR STAKE, MINIMUM 36" LONG OR AS SITE REQUIRES

QUICK-COUPLED VALVE PER LEGEND. LOCKING CAP REQUIRED FOR CITY & LMD PROJECTS.

SIDEWALK, CURB, ETC.

12"

MIN.

DOUBLE CLAMP WITH STAINLESS STEEL CLAMPS.

PVC SCH-80 NIPPLE, LENGTH AS REQUIRED

MINIMUM 6" DEPTH PEA GRAVEL

RED BRICK SUPPORTS, TYPICAL. MINIMUM 3 REQUIRED, ONE EACH SIDE.

PVC SUPPLY LINE FITTING (SxSxS) WITH SxT REDUCER BUSHING

PVC SCH. 80 ELBOW

PVC SCH-80 NIPPLES, LENGTH AS REQUIRED

PVC SCH. 80 ELBOWS

PVC SUPPLY LINE

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
3. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL QUICK-COUPLED VALVE

STANDARD DETAIL

REVISIONS

1-5

ENGINEERING

PLANNING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
FINISH GRADE

10" ROUND PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUNDCOVER AREAS

THREAD GATE OR BALL VALVE PER LEGEND

12"

SIDEWALK, CURB, ETC.

10" DIAMETER PVC PIPE EXTENSION, LENGTH AS REQUIRED

RED BRICK SUPPORTS, TYPICAL. 4 REQUIRED, ONE EACH SIDE.

PVC SCH 40 MALE ADAPTER, TYPICAL

PVC SUPPLY LINE

PROVIDE 1"-2" AIR SPACE BETWEEN BOTTOM OF VALVE AND TOP OF ROCK.

MINIMUM 6" DEPTH PEA GRAVEL

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
3. USE TEFLOON TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL THREADED GATE OR BALL VALVE
(3" SIZE AND SMALLER)

STANDARD DETAIL

REVISIONS

I-6

ENGINEERING  PLANNING  PUBLIC WORKS

APPROVED BY ABOVE  DATE IMPLEMENTED 07/01/07
STABILIZED DECOMPOSED GRANITE PAVING OR OTHER HARDSCAPE EDGE PER PLAN
BRONZE WYE STRAINER WITH 20 MESH SCREEN AND PLUG
SOLID PANEL ENCLOSURE PER LEGEND. INSTALL PER MANUFACTURERS SPECIFICATIONS. EQUIPMENT TO BE CENTERED INSIDE ENCLOSURE.

REDUCED PRESSURE BACKFLOW PREVENTION UNIT PER LEGEND
INSULATE BACKFLOW ASSEMBLY PER LEGEND

BRONZE THREADED UNION
BRASS NIPPLE, TYPICAL (5 PLACES)
PRESSURE REGULATOR AS REQUIRED PER LEGEND
BRASS BALL VALVE (2 REQUIRED) PER LEGEND

FINISH GRADE
8" MIN. 6"

8" THICK CONCRETE BASE. EXTEND MIN. 6" BEYOND SIDES OF ENCLOSURE.

BRASS NIPPLES, TYPICAL
PRESSURE SUPPLY LINE (DISCHARGE)
PVC SCH-40 MALE ADAPTERS, SIZE AS REQUIRED
BRONZE ELBOWS, TYPICAL (2 REQUIRED)
PRESSURE SUPPLY LINE (INTAKE)

SCALE: NTS

CITY OF PALMDALE
TYPICAL BACKFLOW PREVENTER INSIDE ENCLOSURE

STANDARD DETAIL

REVISIONS

1-7

ENGINEERING PLANNING PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED 07/01/07
NOTES:
1. USE TEFLOM TAPE ON ALL THREADED FITTINGS.
2. TYP. BUBBLER/DRAIN PIPE ASSEMBLY SHALL BE INSTALLED ADJACENT TO EDGE OF PLANT PIT, ON OPPOSING SIDES.
3. ON SLOPES, INSTALL ASSEMBLIES PARALLEL WITH CONTOUR AND UP SLOPE FROM ROOT BALL.

PLAN VIEW

SCALE: NTS

CITY OF PALMDALE

TYPICAL TREE WELL BUBBLER

REVISIONS

1

STANDARD
DETAIL

I-8

ENGINEERING

PLANING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
NOTE:
1. INSTALL HEAD FLUSH WITH TOP OF HARDSCAPE AT INTERSECTION & CORNERS.
2. USE TEFILON TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL 12" POP-UP SHRUB HEAD (SIDE GATED)
(NOT FOR SLOPES; NOT FOR CITY OR LMD PROJECTS)

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APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07

REVISIONS

I-10
NOTE:
1. INSTALL HEAD FLUSH WITH TOP OF HARDSCAPE AT INTERSECTION & CORNERS.
2. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.
3. BODY TO BE EQUIPPED WITH BUILT-IN CHECK VALVE.

SCALE: NTS

CITY OF PALMDALE

TYPICAL 12" POP-UP SHRUB HEAD (BOTTOM FED)

REVISIONS

Michael Martinez    Michael Dunn    Michael Stewart
ENGINEERING    PLANNING    PUBLIC WORKS

APPROVED BY ABOVE    DATE IMPLEMENTED: 07/01/07

STANDARD DETAIL
NOTES:
1. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.
2. BODY TO BE EQUIPPED WITH BUILT-IN CHECK VALVE.

SCALE: NTS

CITY OF PALMDALE

TYPICAL 6" POP-UP LAWN SPRAY HEAD
NOTE: ALL FITTINGS SIZES TO BE SAME SIZE AS SPRINKLER INLET

PVC TEE OR ELBOW (SxSxT)
PVC SCH. 40 STREET ELBOW
PVC SCH-80 NIPPLE, LENGTH AS REQUIRED
PVC SCH. 40 STREET ELBOW
MARLEX STREET ELBOW
PVC LATERAL LINE

NOTE:
1. INSTALL HEAD FLUSH WITH TOP OF HARDSCAPE AT INTERSECTION & CORNERS.
2. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.
3. BODY TO BE EQUIPPED WITH BUILT-IN CHECK VALVE.

SCALE: NTS

CITY OF PALMDALE
TYPICAL LAWN ROTOR HEAD (LARGE)

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I-13

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
FINISH GRADE

LATERAL LINE

CLEAN BACKFILL SOIL COMPACTED TO MATCH NATIVE SURROUNDING SOIL

SIDWALK, CURB, ETC.

PROVIDE SAND BACKFILL A MINIMUM OF 12" OVER AND UNDER ALL PIPING UNDER PAVED AREAS AND A MINIMUM OF 6" ON ALL OTHER PRESSURE PIPING WHEN NOTED.

DOMESTIC WATER SUPPLY LINE (FOR SIZES 3" AND SMALLER)

IRRIGATION SUPPLY LINE FOR SIZES 3" AND SMALLER

DOMESTIC WATER SUPPLY LINE (FOR SIZES 4" AND LARGER)

REMOTE CONTROL WIRING. TAPE WIRE BUNDLE UNDER IRRIGATION SUPPLY LINE WITH ELECTRICAL TAPE AT 10" ON-CENTER.

IRRIGATION SUPPLY LINE FOR SIZES 4" AND LARGER

NOTE:
INSTALL ALL SUPPLY LINES (DOMESTIC AND IRRIGATION) MINIMUM 10 FEET IN HORIZONTAL DISTANCE FROM SEWER LINES AND MINIMUM 3 FEET ABOVE THE ELEVATION OF NEARBY SEWER LINES WHERE THESE LINES CROSS.

REFER TO C.O.P. STANDARDS M-6.1 & M-6.2 FOR ROAD CROSSINGS

SCALE: NTS

CITY OF PALMDALE

TYPICAL GENERAL DITCHING

STANDARD DETAIL

REVISIONS

I-14

ENGINEERING

PLANNING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
4. USE TEFLON TAPE ON ALL THREADED MALE FITTINGS.

CITY OF PALMDALE

TYPICAL AIR AND PRESSURE RELIEF VALVE

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
NOTES:
1. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CONTROLLER AND FLOOR PENETRATION PRIOR TO FLOOR SLAB INSTALLATION.
2. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
MAXICOM FIELD SATELLITE, WEATHER STATION OR CCU ASSEMBLY

10" ROUND PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUNDCOVER AREAS

GROUND ENHANCEMENT MATERIAL (IF REQUIRED)

COPPER GROUNDING PLATE, TO BE INSTALLED IN IRRIGATED AREA (DIMENSIONS 4"x96"x.0625")

FINISH GRADE

AT LEAST 8 FEET

15 FEET

BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUNDING PLATE. WIRE DEPTH AT 18" MINIMUM.

WELDED CONNECTION

5/8-INCH X 8 FT COPPER CLAD GROUNDING ROD.

RED BRICK SUPPORTS, TYPICAL. MINIMUM 3 REQUIRED, ONE EACH SIDE.

SOLID BARE COPPER WIRE (#6 AWG) FROM GROUNDING ROD TO SATELLITE OR CCU. MAKE WIRE AS STRAIGHT AS POSSIBLE. WIRE DEPTH AT 18" MINIMUM.

NOTES:
1. GROUNDING GRID ASSEMBLY TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS.
2. DUE TO LOCAL SOIL CONDITIONS, IT IS HIGHLY RECOMMENDED THAT 100 LBS. OF EARTH CONTACT BACKFILL (POWERSET OR) BE USED AT THE TIME OF GROUNDING PLATE INSTALLATION TO REDUCE GROUNDING RESISTANCE.
3. INSTALLATION OF GROUNDING GRID TO BE WITNESSED BY CITY LANDSCAPE INSPECTOR.

SCALE: NTS

CITY OF PALMDALE

MAXICOM GROUNDING GRID ASSEMBLY

ENGINEERING
PLANNING
PUBLIC WORKS

REVISIONS

STANDARD DETAIL

I-17

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
NOTES
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
4. LOCATE CONTROLLER IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL AUTOMATIC CONTROLLER WITH FRONT-LOAD ENCLOSURE (OUTDOORS)
NOTES:
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
4. LOCATE CONTROLLER IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL AUTOMATIC CONTROLLER WITH FRONT-LOAD ENCLOSURE (OUTDOORS)
NOTES
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
4. LOCATE CONTROLLER IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL AUTOMATIC CONTROLLER WITH TOP-LOAD ENCLOSURE (OUTDOORS)

REVISIONS

STANDARD DETAIL
I-20

ENGINEERING  PLANNING  PUBLIC WORKS

APPROVED BY ABOVE  DATE IMPLEMENTED 07/01/07
WALL
GROUNDING GRID PER DETAIL I-21
CONCRETE MOWSTRIP PER DETAIL LC-1
AUTOMATIC CONTROLLER PER DETAIL I-1
ELECTRIC METER PER DETAIL I-2
COMPACTED/STABILIZED DECOMPOSED GRANITE PAVING PER DETAIL LC-2
BACKFLOW PREVENTER PER DETAIL I-7
BOOSTER PUMP PER DETAIL I-22

APPROX. 25'-0"

MASTER VALVE PER DETAIL I-23
FLOW SENSOR PER DETAIL I-24

PLANTER AREA
PLANTER AREA

TO
VALVES

FLOW

FROM CITY WATER LINE

SIDEWALK
CURB
WATER METER
STREET
BALL OR GATE VALVES PER DETAIL I-6
TYPICAL SYMBOL FOR IRRIGATION PRESSURE LINE PER DETAIL I-14

SEE PLAN FOR ACTUAL LAYOUT

SCALE: NTS

CITY OF PALMDALE
TYPICAL POINT OF CONNECTION LAYOUT
FOR LMD AND CAPITAL IMPROVEMENTS PROJECTS

STANDARD DETAIL

REVISIONS

I-21

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
FINISH GRADE

12"x18" PLASTIC BOX AND COVER WITH LOCK TOP AND EXTENSION(S) AS NECESSARY. TOP OF BOX TO BE 3/4" ABOVE Finish Grade in TURF AREAS or 3" ABOVE Finish Grade in SHRUB/GROUNDCOVER AREAS

MASTER VALVE PER LEGEND

WATERPROOF WIRE CONNECTION

CURL TYPE EXPANSION LOOP (MIN. 24")

12"

OR AS NOTED

SIDEWALK, CURB, ETC.

PVC PRESSURE SUPPLY LINE

PVC SxS COUPLER WITH SxT BUSHING (2 REQUIRED)

RED BRICK SUPPORTS, TYPICAL. 4 TOTAL REQUIRED, ONE EACH SIDE.

BRASS NIPPLES, 4 REQUIRED

BRASS UNIONS, EACH SIDE

MINIMUM 6" DEPTH PEA GRAVEL

COMMON AND CONTROL WIREs UNDER SUPPLY LINE

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
4. USE TEFLOn TAPE ON ALL THREADED MALE FITTINGS.
5. WATERPROOF CONNECTORS TO BE UL LISTED (3M DBR-6 OR DBY-6) ON CITY & LMD PROJECTS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL MASTER VALVE

REVISIONS

STD. DETAIL

I-23

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
FINISH GRADE

10" ROUND PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUNDCOVER AREAS

WIRE CONNECTORS, 3M #3570 EPOXY SEALING PACK, OR EQUAL

CURL TYPE EXPANSION LOOP (MIN. 36")

12" MIN.

SIDEWALK, CURB, ETC.

FLOW SENSOR PER LEGEND

10" DIAMETER PVC PIPE EXTENSION, LENGTH AS REQUIRED

RED BRICK SUPPORTS, TYPICAL. 4 REQUIRED, ONE EACH SIDE.

STRIP SHIELD BRAID BACK 2" FROM END OF CABLE

COMMUNICATION CABLE TO CONTROLLER. INSTALL CABLE IN 1" PVC SCH-40 CONDUIT

PROVIDE 2" AIR SPACE BETWEEN BOTTOM OF SUPPLY LINE AND TOP OF ROCK.

PVC SUPPLY LINE

PIPING, THESE TWO SECTIONS ONLY, TO BE SAME SIZE AS FLOW SENSOR

MINIMUM 6" DEPTH PEA GRAVEL

ALLOW MINIMUM DISTANCE OF 5X FLOW SENSOR SIZE FROM NEAREST DOWNSTREAM VALVE, FITTING OR REDUCING COUPLER TO EDGE OF FLOW SENSOR

ALLOW MINIMUM DISTANCE OF 10X FLOW SENSOR SIZE FROM NEAREST UPSTREAM VALVE, FITTING OR REDUCING COUPLER TO EDGE OF FLOW SENSOR

NOTES:

1. COMMUNICATION CABLE TO BE SIMILAR TO REA SPEC. PE-89.
2. REFER TO MANUFACTURERS INSTALLATION RECOMMENDATIONS FOR FURTHER DIRECTION.
3. IF THE FLOW SENSOR IS LOCATED MORE THAN 150 FEET FROM THE FLOW TRANSMITTER, INCLUDE ADDITIONAL SURGE PROTECTION AND GROUND ROD AT THE FLOW SENSOR LOCATION.

CITY OF PALMDALE

TYPICAL FLOW SENSOR ASSEMBLY

SCALE: NTS

STANDARD DETAIL

REVISIONS

1-24

ENGAGEMENT PLANNING PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED 07/01/07
## NOTES:
1. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CCU AND FLOOR PENETRATION PRIOR TO FLOOR SLAB INSTALLATION.
2. PROVIDE #6 GAUGE OR LARGER BARE COPPER WIRE FROM GROUND CONNECTION TO GROUNDING GRID. SEE DETAIL I-17

## CITY OF PALMDALE

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SPACE HEADS ALONG EDGE OF PAVING AT 133% OVERLAP.

133% OVERLAP

100%

33% 33% 33% 33%

EDGE OF IRRIGATED AREA

SPACE 1ST ROW OF HEADS OFF EDGE OF IRRIGATED AREA AT 100% (HEAD-TO-HEAD) SPACING PERPENDICULAR TO IRRIGATED AREA AND 133% OVERLAP PARALLEL TO IRRIGATED AREA TO AVOID OVERSPRAY.

SPACE ADDITIONAL ROWS OF HEADS AT 133% OVERLAP

133% OVERLAP = 75% SPACING

1.00/1.33=0.75

SCALE: NTS

CITY OF PALMDALE
TYPICAL SPRAY OR ROTOR HEAD LAYOUT (133% OVERLAP)

<table>
<thead>
<tr>
<th>STANDARD DETAIL</th>
<th>REVISIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY OF PALMDALE TYPICAL SPRAY OR ROTOR HEAD LAYOUT (133% OVERLAP)</td>
<td>I-26</td>
</tr>
</tbody>
</table>

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED

07/01/07
NOTE:
1. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.
2. LOCATE HEAD AT EDGE OF PLANT PIT. LOCATE ON UPHILL SIDE IF ON SLOPE.

SCALE: NTS

CITY OF PALMDALE

TYPICAL POINT-SOURCE BUBBLER HEAD

STANDARD DETAIL

REVISIONS I-27

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
FINISH GRADE

"JUMBO" PLASTIC BOX AND COVER WITH LOCK TOP. BOX TO BE 3/4" ABOVE FINISH GRADE IN TURF AREAS; BOX TO BE 3" ABOVE FINISH GRADE IN SHRUB/GROUNDCOVER AREAS

CURL TYPE EXPANSION LOOP (MIN. 24")

WATERPROOF WIRE CONNECTION

CHRISTY'S I.D. TAG (STANDARD) SECURE TO SOLENOID PIGTAIL 12"

OR AS NOTED

SIDEWALK, CURB, ETC.

STRAINER PER LEGEND

PRESSURE REGULATOR PER LEGEND

FLOW

PVC LATERAL LINE

RED BRICK SUPPORTS, TYPICAL. 4 TOTAL REQUIRED, ONE EACH SIDE.

PVC SCH-80 MALE ADAPTOR

PVC SCH-80 TXT UNION

REMOTE CONTROL VALVE PER LEGEND

BALL VALVE PER LEGEND

MINIMUM 6" DEPTH PEA GRAVEL

PVC SCH-80 TXT UNION

PVC SCH-80 NIPPLE (TYP. 4 PLACES)

PVC SUPPLY LINE FITTING (SxS) WITH SxT BUSHING

COMMON AND CONTROL WIRES UNDER SUPPLY LINE

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 3 FEET APART.
4. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL DRIP REMOTE CONTROL VALVE ASSEMBLY

REVISIONS

STANDARD DETAIL

I-28

ENGINEERING

PLANNING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. VALVE TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 1 FOOT APART.
4. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.

CITY OF PALMDALE

TYPICAL REMOTE CONTROL ANTI-SIPHON VALVE

REVISIONS

STANDARD DETAIL I-29

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
NOTES:
1. BREAKERS ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. BREAKER TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE BREAKER IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 1 FOOT APART.
4. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL ATMOSPHERIC VACUUM BREAKER ON UPHILL SLOPE

REVISIONS

I-30
NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. VALVE TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE A MINIMUM OF 1 FOOT APART.
4. USE TEFLOM TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL DRI double control ANTI-SIPHON VALVE

STANDARD DETAIL:

REVISIONS

I-31

ENGINEERING  PLANNING  PUBLIC WORKS

APPROVED BY ABOVE  DATE IMPLEMENTED 07/01/07
NOTE:
1. USE TEFLOM TAPE ON ALL THREADED MALE PIPE FITTINGS.
2. LOCATE EMITTER AT EDGE OF PLANT PIT. LOCATE ON UPHILL SIDE IF ON SLOPE.
NOTE:
1. USE TEFLOM TAPE ON ALL THREADED MALE PIPE FITTINGS.
2. LOCATE EMITTER OUTLET(S) AT EDGE OF ROOT BALL. LOCATE ON UPHILL SIDE IF ON SLOPE.
3. WHEN MULTIPLE OUTLETS ARE SPECIFIED FOR ONE PLANT, LOCATE OUTLETS EQUALLY AROUND PLANT BASIN.

CITY OF PALMDALE

TYPICAL MULTI-OUTLET DRIP EMITTER ASSEMBLY

SCALE: NTS

REVISIONS

I-33

ENGINEERING  PLANNING  PUBLICWORKS

APPROVED BY ABOVE  DATE IMPLEMENTED 07/01/07
PROVIDE THE IRRIGATION INFORMATION CHART, BELOW, ON THE IRRIGATION PLANS FOR EACH POINT OF CONNECTION. FILL OUT THE REQUIRED INFORMATION AND PLACE CHART(S) NEXT TO THE IRRIGATION LEGEND.

### WORST CASE PRESSURE LOSS CHART

**CONTROLLER/STATION:** XX  
**POC ELEV:** 0  
**GPM:** 00.0  
**PSI AT POC:** 0

<table>
<thead>
<tr>
<th>Component</th>
<th>Pressure (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0&quot; WATER METER</td>
<td>0.0</td>
</tr>
<tr>
<td>0&quot; BACKFLOW PREVENTER</td>
<td>0.0</td>
</tr>
<tr>
<td>0&quot; MASTER VALVE</td>
<td>0.0</td>
</tr>
<tr>
<td>0&quot; FLOW SENSOR</td>
<td>0.0</td>
</tr>
<tr>
<td>0 LF OF 2&quot; PVC CL-315 MAINLINE</td>
<td>0.0</td>
</tr>
<tr>
<td>0 LF OF 1-1/2&quot; PVC SCH-40 MAINLINE</td>
<td>0.0</td>
</tr>
<tr>
<td>0 LF OF 1-1/4&quot; PVC SCH-40 MAINLINE</td>
<td>0.0</td>
</tr>
<tr>
<td>0 LF OF 1&quot; PVC SCH-40 MAINLINE</td>
<td>0.0</td>
</tr>
<tr>
<td>FITTINGS (20% MAINLINE LOSS)</td>
<td>0.0</td>
</tr>
<tr>
<td>0&quot; REMOTE CONTROL VALVE</td>
<td>0.0</td>
</tr>
<tr>
<td>LATERAL LINE LOSSES, (FIXED)</td>
<td>5.0</td>
</tr>
<tr>
<td>ELEVATION CHANGE FROM POC TO HIGHEST OUTLET (+/- FT.)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**SPRINKLER DESIGN OPERATING PRESSURE:** 00.0 PSI

**TOTAL SYSTEM LOSSES:** 00.0 PSI

**SUMMARY:**

1. AVAILABLE STATIC PRESSURE AT POC: 0.0 PSI
2. REQUIRED SYSTEM MINIMUM PRESSURE: 00.0 PSI
3. RESIDUAL PRESSURE: 00.0 PSI

**IF PRESSURE AT POC IS TOO HIGH, ADD THE FOLLOWING:**

4. ADJUST PRESSURE REGULATOR AT POC TO: 00.0 PSI
5. RESIDUAL FROM ADJUSTED PRESSURE: 00.0 PSI

**IF PRESSURE AT POC IS TOO LOW, ADD THE FOLLOWING:**

6. TOTAL BOOSTED PSI REQ'D AT PUMP: 00.0 PSI
7. RESIDUAL PRESSURE: 00.0 PSI
8. PUMP BOOST REQUIRED: 00.0 PSI

---

### CITY OF PALMDALE

**IRRIGATION INFORMATION CHART**

<table>
<thead>
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<th>ENGINEERING</th>
<th>PLANNING</th>
<th>PUBLIC WORKS</th>
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</thead>
<tbody>
<tr>
<td><strong>IRRIGATION INFORMATION CHART</strong></td>
<td><strong>REVISIONS</strong></td>
<td><strong>STANDARD DETAIL</strong></td>
<td><strong>I-35</strong></td>
</tr>
</tbody>
</table>

**APPROVED BY ABOVE**

**DATE IMPLEMENTED:** 07/01/07
METERED IRRIGATION CONTROLLER ENCLOSURE WITH MOUNTING BASE PER LEGEND. MYERS MEUG46-IA (ALUMINUM) OR MEUG46-IX (STAINLESS STEEL), OR EQUAL. MOUNT BASE TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS.

AUTOMATIC CONTROLLER PER LEGEND

CONTROLLER SUB-ASSEMBLY INCLUDES GFI & TERMINAL STRIPS WITH PLACARDS.

COMMUNICATION CABLE TO CCU/OTHER SATELLITES TWO-WIRE PATH IN 1" PVC CONDUIT

GROUNDING BUSS BAR

1/2"-13 OR 5/8"-18 BOLTS SUPPLIED WITH BASE

FINISH SURFACE PER PLAN

FINISH GRADE

3" PVC SCH-40 CONDUIT, FITTINGS AND LONG SWEEP ELL WITH DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES

1/2" OR 5/8" ANCHOR BOLTS AS REQUIRED

#6 COPPER GROUND WIRE FROM GROUNDING BUSS BAR TO GROUNDING GRID (SEE MAXICOM GROUNDING GRID DETAIL I-17)

6" THICK MINIMUM CONCRETE BASE

NOTES
1. COMMON WIRE TO BE WHITE AND CONTROL WIRE TO BE BLACK IN COLOR UNLESS OTHERWISE NOTED.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNLESS OTHERWISE APPROVED.
3. CONTROL WIRE SEQUENCING CORRESPONDS TO OPERATING SEQUENCE OF REMOTE CONTROL VALVES AND AUTOMATIC CONTROLLER UNIT (AS ON DRAWING).
4. LOCATE CONTROLLER ENCLOSURE IN A WAY NOT TO BE SPRAYED BY SPRINKLERS.
5. 36" MINIMUM CLEARANCE REQD. PER NEC 110-16, TYPICAL FRONT AND BACK. 10" MINIMUM CLEARANCE, SIDES.

SCALE: NTS

CITY OF PALMDALE

TYPICAL AUTOMATIC CONTROLLER WITH ELECTRIC METER (OUTDOORS)

STANDARD DETAIL

REVISIONS

1-36

ENGINEERING

PLANNING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
ANCHOR ROD (TYP.)

VALVE
(ELEVATION)

ELL

45° ELL

REDUCER

45° ELL

WYE

TEE

CAPPED TEE

45° ELL
(ELEVATION)

PIPE (TYPICAL)
ANCHOR ROD (TYP.)

FITTING (TYPICAL)
CONCRETE THRUST BLOCK (TYPICAL)
UNDISTURBED SOIL (TYPICAL)

NOTES:
1. ALL PLASTIC PRESSURE PIPE 2-1/2" AND LARGER TO BE INSTALLED ACCORDING TO THESE DETAILS UNLESS OTHERWISE NOTED OR DETAILED.
2. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE 265-C-14 (450-C-2000) CONCRETE.
3. ALL ANCHOR RODS SHALL BE GALVANIZED STEEL, MINIMUM 1/2" DIAMETER, WRAPPED AROUND PIPE.
4. SIZE OF THRUST BLOCKS TO BE DETERMINED BY SOILS ENGINEER.
5. FLOW DIRECTIONS INDICATED BY
6. ALL VIEWS ARE PLAN VIEW UNLESS OTHERWISE SHOWN.

SCALE: NTS

CITY OF PALMDALE

TYPICAL THRUST BLOCKS FOR PLASTIC PIPE

REVISIONS

I-37

ENGINEERING
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APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
CURT TYPE EXPANSION LOOP (MIN. 12"
WATERPROOF WIRE CONNECTION
PVC SCH-80 (T)x(T) ELBOW
3" LENGTH PVC SCH-80 NIPPLE
ELECTRIC REMOTE CONTROL VALVE PER
LEGEND
PVC SCH-40 MALE ADAPTERS (TYP. 2
PLACES)
INSULATE PRESSURE SIDE PIPING
TAPE WIRES TO PIPE
FINISH GRADE
SIDEBALK, CURB, WALL, ETC.

12" MIN.

PVC SUPPLY LINE
PVC REDUCER BUSHING (S)x(S) AS
REQUIRED
PVC SUPPLY LINE
COMMON AND CONTROL WIRES UNDER
SUPPLY LINE
PVC LATERAL LINE

NOTES:
1. VALVES ARE TO BE INSTALLED IN SHRUB AREAS UNLESS OTHERWISE NOTED.
2. VALVE TO BE PlACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. WHEN MORE THAN ONE VALVE IS LOCATED IN THE SAME AREA, PROVIDE A SPACE
   A MINIMUM OF 1 FOOT APART.
4. USE TEFILON TAPE ON ALL THREADED MALE FITTINGS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL REMOTE CONTROL VALVE, ABOVE GRADE

<table>
<thead>
<tr>
<th>ENGINEERING</th>
<th>PLANNING</th>
<th>PUBLIC WORKS</th>
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APPROVED BY ABOVE  DATE IMPLEMENTED 07/01/07

REVISIONS

I-38
CONCRETE MOWSTRIP WITH SMOOTH TROWEL FINISH
1/2" RADIUS AT EDGES
#3 REBAR CONTINUOUS AT CENTER OF MOWSTRIP
FINISH GRADE 1" BELOW TOP OF MOWSTRIP IN TURF AREAS, AND 2" BELOW IN GROUNDcover AND SHRUB AREAS
COMPACT SUB-GRADE TO 90%

NOTES:

1. PROVIDE 1/2" BITUMINOUS FELT EXPANSION JOINT AT 8'-0" ON CENTER MAXIMUM ON CURVES AND 24'-0" ON CENTER MAXIMUM ON STRAIGHT RUNS.

2. NO EXTRUDED MOWSTRIPS WILL BE ACCEPTED UNLESS APPROVED BY CITY ENGINEER.

SCALE: 1"=1'-0"

CITY OF PALMDALE

<table>
<thead>
<tr>
<th>TYPICAL CONCRETE MOWSTRIP</th>
<th>REVISIONS</th>
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<tbody>
<tr>
<td></td>
<td>LC-1</td>
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<tr>
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<tr>
<td>APPROVED BY ABOVE</td>
<td>DATE IMPLEMENTED 7-1-07</td>
</tr>
</tbody>
</table>
OTHER EDGE OF D.G. WILL BE ADJACENT TO CONCRETE OR OTHER FINISH SURFACE. SEE PLAN.

3" LAYER DECOMPOSED GRANITE PAVING. SEE PLAN FOR LAYOUT. SEE NOTES BELOW FOR TYPE AND INSTALLATION PROCEDURE.

FINISH GRADE

CONCRETE PAVING OR OTHER FINISH SURFACE

90% MINIMUM COMPACTED SUB-GRADE

1. DECOMPOSED GRANITE MATERIAL TO BE 1/4" MINUS, COLOR PER PLAN. SUBMIT SAMPLE FOR APPROVAL.

2. STABILIZED BINDER SHALL BE NON-TOXIC, ORGANIC BINDER EQUAL TO "STABILIZER" BINDER BY STABILIZER SOLUTIONS, INC. 800-336-2468 OR APPROVED EQUAL.

3. STABILIZED BINDER SHALL BE INCORPORATED THOROUGHLY WITH ALL D.G. AT A RATE AS RECOMMENDED IN WRITING BY MANUFACTURER.

4. D.G. & STABILIZER SHALL BE INSTALLED IN TWO LIFT APPLICATIONS, PRE-MIXED FROM SUPPLIER AND INSTALLED PER MANUFACTURERS INSTALLATION SPECIFICATIONS.

5. PROVIDE SAMPLE OF D.G. (AS IT WILL BE MIXED WITH STABILIZER) FOR APPROVAL FROM CITY ENGINEER OR ENGINEER'S REPRESENTATIVE PRIOR TO PURCHASE & INSTALLATION.

SCALE: 1"=1'-0"

CITY OF PALMDALE

TYPICAL DECOMPOSED GRANITE PAVING

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<td>LC-2</td>
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ENGINEERING

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APPROVED BY ABOVE

DATE IMPLEMENTED 7/01/07
TYPICAL STAMPED CONCRETE CONSTRUCTION

STAMPED CONCRETE CONSTRUCTION LEGEND

<table>
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<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>FOUR INCH (4&quot;) THICK STAMPED CONCRETE PAVING. SEE NOTE #10, LC-3(C) FOR SPECIFICATIONS.</td>
</tr>
<tr>
<td>2</td>
<td>UNDISTURBED EARTH OR COMPACTED SUB-GRADE AS INDICATED IN NOTES &amp; AS REQUIRED PER DETAILS, PLANS &amp; NOTES.</td>
</tr>
<tr>
<td>3</td>
<td>6X6/10-10 WWM FROM FLAT SHEETS AT CENTER OF SLAB TYPICAL IN ALL CONCRETE</td>
</tr>
<tr>
<td>4</td>
<td>2&quot; SAND BASE OR CRUSHED MODIFIED BASE. BASE MAY BE MODIFIED BASED ON SOILS REPORT.</td>
</tr>
<tr>
<td>5</td>
<td>PLANTING AREA - SEE PLANTING PLANS &amp; SPECIFICATIONS</td>
</tr>
</tbody>
</table>

CITY OF PALMDALE

TYPICAL STAMPED/COLORED CONCRETE PAVING
AT MEDIAN

STANDARD DETAIL
LC-3
(A)

REVISIONS

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 7/01/07
1 OF 3
B TYPICAL STAMPED CONCRETE MEDIAN NOSE

C TYPICAL STAMPED CONCRETE WITH SUPERELEVATION

STAMPED CONCRETE CONSTRUCTION LEGEND

<table>
<thead>
<tr>
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CITY OF PALMDALE

TYPICAL STAMPED/COLORED CONCRETE PAVING AT MEDIAN

STANDARD DETAIL

REVISIONS

LC-3 (B)

2 OF 3
STAMPED CONCRETE CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT ALL UTILITIES AND VERIFY UTILITY LOCATIONS PRIOR TO CONDUCTING ANY WORK.

2. HEAVY EQUIPMENT SHALL NOT BE PERMITTED IN SCARIFICATION PIT OR ON NON-COMPACTED SOIL IN PIT.

3. SOIL WITHIN SIX INCH (6") VERTICAL OR HORIZONTAL OF UTILITIES SHALL NOT BE DISTURBED.

4. FOR MEDIAN EXCAVATION, TOP OF CURB ELEVATIONS SHALL BE MEASURED ALONG A LINE PASSING THROUGH THE TOPS OF BOTH CURBS, AT BACK OF CURB. MEDIAN CONSTRUCTION ELEVATIONS SHALL BE MEASURED FROM THE HIGHER CURB.

5. SEE PLANS FOR PLANTER & CONCRETE LAYOUTS.

6. INSTALL EXPANSION JOINT'S PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AT TILE JOINT LOCATIONS. PROVIDE CAULKING AND EXPANSION JOINTS TO MATCH CONCRETE COLOR.

7. ALL INSTALLATIONS OR CONFIGURATIONS OF EQUIPMENT, MATERIALS OR PLANTING, NOT DIRECTLY ADDRESSED IN THE DRAWINGS OR THE SPECIFICATIONS SHALL OCCUR AS DIRECTED BY THE CITY ENGINEER. NOTIFICATION TO THE CITY ENGINEER OF UNSPECIFIED ISSUES IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL OCCUR AT LEAST 72 WORKING HOURS BEFORE INSTALLATION OF MATERIAL IN QUESTION.

8. A SAMPLE OF STAMPED CONCRETE, 3'X3' MINIMUM SIZE, SHALL BE POURED & APPROVED BY THE CITY OF PALMDALE DEPARTMENT OF PUBLIC WORKS. SAMPLE TO BE CURED TWO WEEKS (2) PRIOR TO REVIEW. PRIOR TO CONCRETE INSTALLATION, THE APPROVED STAMPED CONCRETE SAMPLE SHALL BE THE STANDARD FOR ALL PROJECT STAMPED CONCRETE.

9. TREES SHALL NOT BE LOCATED WITHIN TEN FEET (10') OF GAS LINES. REFER TO PLANTING PLAN FOR TREE LOCATIONS.

10. CONSTRUCT 4" THICK "ASHLAR SLATE" PATTERN STAMPED CONCRETE PAVING, WITH THREE COLOR RELEASE PROCESS. COLORS TO BE SELECTED AND APPROVED BY THE CITY ENGINEER.

11. SEE CIVIL ENGINEER'S STREET IMPROVEMENT PLANS FOR MORE INFORMATION.

CITY OF PALMDALE

TYPICAL STAMPED/COLORED CONCRETE PAVING AT MEDIAN

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APPROVED BY ABOVE

DATE IMPLEMENTED: 07/01/07

STANDARD DETAIL

LC-3 (C)

3 OF 3
TURF SIDE OF PLASTIC EDGING

ROUND TOP PLASTIC HEADER EDGING WITH FROST HEAVE PROTECTION, PER PLAN. MINIMUM 4" HEIGHT. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS.

TOP OF EDGING AT 1" ABOVE FINISH GRADE OF TURF AREAS; 2" ABOVE FINISH GRADE OF SHRUB/GROUNDCOVER AREAS.

MINIMUM 8" LENGTH METAL STAKE AS PROVIDED BY MANUFACTURER, SPACE PER MANUFACTURER'S RECOMMENDATIONS.

SCALE: 1"=1'-0"
MULCH LAYER OR TURF PER PLAN ADJACENT PAVING, CURBING OR WALL
FINISH GRADE. 1" BELOW PAVING IN TURF AREAS. 2"
BELOW PAVING IN SHRUB AND GROUNDCOVER AREAS.
TYPICAL CURB, WALKWAY, PAVING OR WALL.
SUBGRADE
BACKFILL SOIL
ROOT BARRIER MATERIAL. INSTALL WITH RIBS
TOWARD TREE AND PER MANUFACTURERS
SPECIFICATIONS. TOP EDGE OF BARRIER SHALL
BE FLUSH WITH ADJACENT PAVING, CURB OR
WALL.

SECTION SCALE: NTS

INSTALL ROOT BARRIER WHEN DISTANCE
FROM TREE TO CURB, WALKWAY,
PAVING OR WALL IS 5' OR LESS

TREE CANOPY

TYPICAL CURB, WALKWAY, PAVING OR WALL.

TREE TRUNK

TYPICAL SYMBOL FOR LINEAR ROOT BARRIER
MATERIAL. SEE NOTES FOR TYPE AND
MANUFACTURER. INSTALL PER
MANUFACTURER'S SPECIFICATIONS.

TYPICAL PLANTING AREA

TYPICAL CURB, WALKWAY, PAVING OR WALL.

PLAN VIEW SCALE: NTS

CITY OF PALMDALE

TYPICAL LINEAR TREE ROOT BARRIER

REVISIONS

STANDARD DETAIL

LC-5

ENGINEERING PLANNING PUBLIC WORKS

APPROVED BY ABOVE DATE IMPLEMENTED 07/01/07
1. Scarify sides of plant pit prior to setting tree.
2. Remove nursery stakes.
3. Provide & install 21 gram plant tablets as per specifications.
4. Stake tree perpendicular to prevailing wind.
5. Provide two bubblers for each tree per tree bubblers detail I-8.

SCALE: NTS

NOTES:
- V.I.T. 'CINCH-TIES' - 4 (FOUR) PER TREE.
- 2" DIAMETER LODGEPOLE PINE TREE STAKE, TWO PER TREE, LOCATED OUTSIDE PLANT PIT. LENGTH AS FOLLOWS:
  - 15 GALLON - 10'
  - 24" BOX - 12" (OR AS REQUIRED TO EXTEND 12" BELOW BOTTOM OF PLANT PIT)
- 'ARBOR GUARD' TRUNK PROTECTOR FOR TREES IN TURF AREAS
- ROOT BALL - TOP SHALL BE 2" HIGHER THAN FINISH GRADE.
- MULCH LAYER PER PLAN (1" THICK MAX OVER ROOTBALL).
- 4" TALL PERMANENT BASIN, AT EDGE OF PLANT PIT
- FINISH GRADE
- PLANT TABLET LOCATION, QUANTITY PER SPECIFICATIONS
- BACKFILL - AMEND PER AGRONOMIC SOILS REPORT OR AS NOTED ON PLANS.
- COMPACTED BACKFILL. NO AMENDMENT.
CITY OF PALMDALE

TYPICAL TREE PLANTING
(SLOPE)

NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING TREE.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.
4. STAKE TREE PERPENDICULAR TO PREVAILING WIND.
5. PROVIDE TWO BUBBLERS FOR EACH TREE PER TREE BUBBLER DETAIL I-8.

SCALE: NTS

P-2

STANDARD DETAIL

ENGINEERING

PLANNING

PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/07
NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING PLANT.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL TREE GUYING
(36" BOX SIZE & LARGER)

STANDARD DETAIL

P-3

REVISIONS

ENGRIEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING PLANT.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.

SCALE: NTS

CITY OF PALMDALE
TYPICAL TREE TRIPLE-STAKING
(36" BOX SIZE & LARGER)

STANDARD DETAIL

REVISIONS
P-4
NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING PLANT.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 5 GRAM OR 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.

SCALE: NTS
NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING PLANT.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 5 GRAM OR 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL SHRUB PLANTING

REVISIONS

P-6

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07
VINE, TIE TO WIRE TRELLIS WITH GREEN TIES IN FAN-LIKE MANNER

INSTALL HEAVY GAUGE CLEAR LINE TRIMMER WIRE @ 1'-6" O.C. VERTICALLY. ATTACH TO MASONRY OR WOOD W/ 3/8" EYE BOLTS (W/ANCHORS IN MASONRY) AT 5' O.C., OR EPOXY TO PLASTER, STUCCO OR METAL WITH PLASTIC TIE DISCS. USE METAL WIRE FOR LMD & CITY PROJECTS.

ROOT BALL - TOP SHALL BE 1"-2" HIGHER THAN FINISH GRADE.

MULCH LAYER PER PLAN (1" THICK MAX OVER ROOTBALL).

2" TALL PERMANENT BASIN, AT EDGE OF PLANT PIT

PLANT TABLET LOCATION, QUANTITY PER SPECIFICATIONS

BACKFILL - AMEND PER AGRONOMIC SOILS REPORT OR AS NOTED ON PLANS.

COMPACTED BACKFILL. NO AMENDMENT.

NOTES:
1. SCARIFY SIDES OF PLANT PIT PRIOR TO SETTING PLANT.
2. REMOVE NURSERY STAKES.
3. PROVIDE & INSTALL 21 GRAM PLANT TABLETS AS PER SPECIFICATIONS.

SCALE: NTS

CITY OF PALMDALE

TYPICAL VINE PLANTING

STANDARD DETAIL

ENGINEERING     PLANNING     PUBLIC WORKS

APPROVED BY ABOVE

DATE IMPLEMENTED 07/01/01

REVISIONS

P-7
1/2 SPACING

EDGE OF HARDSCAPE
FINISH GRADE SHALL BE 2" BELOW ADJACENT HARDSCAPE EDGING, CURB, PAVING OR WALL
MULCH COVER PER PLANS

PLANT
AMENDED SOIL PER AGRONOMIC SOILS REPORT OR AS NOTED ON PLANS.
UNDISTURBED NATIVE SOIL

SECTION

1/2 SPACING

EDGE OF HARDSCAPE

FLATTED GROUNDCOVER OR ANNUAL COLOR PLANTINGS - SEE PLAN FOR TYPE AND SPACING
MULCH COVER

PLAN

NOTE: TOP OF ROOT BALL SHALL BE LEVEL WITH SURROUNDING FINISH GRADE.

SCALE: NTS

CITY OF PALMDALE
TYPICAL GROUNDCOVER PLANTING,
TRIANGULAR SPACING

REVISIONS

P-8

ENGINEERING    PLANNING    PUBLIC WORKS
APPROVED BY ABOVE    DATE IMPLEMENTED 07/01/07
IN ACCORDANCE WITH WRITTEN ENGINEERING GUIDELINES FOR PERMANENT EROSION CONTROL - IN ADDITION TO GROUND COVER PLANTING, ALL SLOPES EXCEEDING FIFTEEN (15) FEET IN VERTICAL HEIGHT SHALL ALSO BE PLANTED WITH TREES SPACED AT NO MORE THAN TWENTY (20) FEET ON CENTER OR SHRUBS SPACED AT NO MORE THAN TEN (10) FEET ON CENTER OR A COMBINATION OF BOTH TO EQUAL THE INTENT. ALL PLANT MATERIAL SHALL BE TRIANGULARLY SPACED.

PROVIDE THE EQUATION CHART, BELOW, ON THE PLANS FOR EACH AREA OF PLANTED SLOPE REQUIRING TREES AND/OR SHRUBS.

SLOPE TREE/SHRUB QUANTITY CHART
TOTAL SQUARE FOOTAGE OF SLOPE: ______________ S.F.

TOTAL QUANTITY OF TREES REQUIRED: ___________ EA.
OR
TOTAL QUANTITY OF SHRUBS REQUIRED: ___________ EA.

TOTAL QUANTITY OF TREES PROVIDED: ___________ EA.
TOTAL QUANTITY OF SHRUBS PROVIDED: ___________ EA.

ONE SHRUB @ 10' O.C., EQUAL TRIANGULAR SPACING = 86.66 SQ. FT. PER SHRUB
ONE TREE @ 20' O.C., EQUAL TRIANGULAR SPACING = 346.66 SQ. FT. PER TREE
346.66/86.66=4
FOUR SHRUBS = ONE TREE.

CHART IS NOT TO REPLACE PLANT SYMBOLS ON PLAN AT 60% OF MATURE GROWTH.

CITY OF PALMDALE

TREE AND/OR SHRUB QUANTITIES EQUATION CHART

ENGINEERING
PLANNING
PUBLIC WORKS

APPROVED BY ABOVE
DATE IMPLEMENTED 07/01/07

STANDARD DETAIL

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