NOTE:
ALL PLASTIC PIPING SHALL BE SNAKED WITHIN TRENCH.
BUNDLE WIRING AND WRAP WITH TAPE AT TEN FOOT INTERVALS.
ALL MAINLINE PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION SPECIFICATIONS.

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<th>DIMENSION</th>
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<td>1/2&quot; TO 2 1/2&quot; IN SIZE</td>
<td>18&quot;</td>
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<td>3&quot; TO 6&quot; IN SIZE</td>
<td>24&quot;</td>
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SECTION VIEW - N.T.S.
NOTE:

ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS’ INSTALLATION SPECIFICATIONS.

ALL MAINLINE, LATERAL LINES, AND CONTROL WIRES SHALL BE SLEEVED BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC, 2 TIMES THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

DEPTH OF SLEEVES, BACKFILL, AND COMPACTION OF TRENCH SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO. 223 FOR CROSSINGS OF STREETS AND SHALL BE IN ACCORDANCE WITH STANDARD PLAN NO. 500 FOR CROSSINGS OF PARKING LOTS, SIDEWALKS, OR OTHER HARDSCAPE ELEMENTS.

HORIZONTAL DIMENSION BETWEEN SLEEVES SHALL BE A MINIMUM OF 4 INCHES.
ULTRAVIOLET RESISTANT (UVR)
PVC PIPE, SEE PLANS FOR SIZE

#4 x 18 INCH REBAR J-HOOK, REQUIRED EVERY 7 FEET ALONG LENGTH, TYPICAL

FINISHED GRADE

UVR PVC PIPE, INSTALLED ON GRADE
REBAR J-HOOK PIPE SUPPORT

PVC 90 DEGREE ELBOWS, SLIP X THREAD WITH 4 INCH LONG SCH 80 PVC NIPPLE IN BETWEEN

SLOPE DIRECTION CHANGE
SECTION VIEW - N.T.S.

NOTE:
ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE TO BE ULTRAVIOLET RESISTANT (UVR).
USE TEFELON TAPE ON THREADED FITTINGS.

SLOPE DIRECTION CHANGE
PLAN VIEW - N.T.S.

REBAR J-HOOK PIPE SUPPORT
UVR PVC PIPE, INSTALLED ON GRADE

UVR PVC ELBOWS, SLIP X THREAD WITH 4 INCH LONG SCH 80 PVC NIPPLE IN BETWEEN
NOTE:
ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE SHALL BE ULTRAVIOLET RESISTANT (UVR).
USE TEFLOM TAPE ON THREADED FITTINGS.
NOTE:
ALL PVC PIPE AND FITTINGS INSTALLED ON GRADE SHALL BE ULTRAVIOLET RESISTANT (UVR).
USE TEFLON TAPE ON THREADED FITTINGS.
FINISHED GRADE IN TURF AREAS

RECTANGULAR UTILITY BOX PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. 3 INCH AND SMALLER ASSEMBLIES SHALL BE PLASTIC WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLTS, NUTS, AND WASHERS. HEAT BRAND OR WELD "POC" ONTO COVER. SEE 505A FOR 4-INCH AND LARGER ASSEMBLIES.

FINISHED GRADE IN SHRUB AREAS

GATE VALVE, 2 REQUIRED

FLANGE WITH STAINLESS STEEL BOLTS, WASHER AND NUT

PRESSURE REGULATOR/MASTER VALVE

BASKET STRAINER

CONCRETE SUPPORT BLOCK (CINDER BLOCK)

PVC SCH 80 FLANGE

SECTION VIEW - N.T.S.

CONCRETE

PIPE SUPPORT (GRINNEL) WITH 12" SQUARE FOOTING

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP

NOTE:
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

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CITY OF IRVINE

STANDARD PLAN NO. 505

3" AND SMALLER ASSEMBLY

Approved by: Mark L. Curled P.C.E. 15510
City Engineer

Date: 6-22-09
FINISHED GRADE IN TURF AREAS

RECTANGULAR CONCRETE VAULT PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE WITH SPRING LOADED METAL DOOR, BROOKS PRODUCTS OR EQUAL.

FINISHED GRADE IN SHRUB AREAS

1''

3''

CONCRETE

PVC SCH 80 FLANGE
GATE VALVE, 2 REQUIRED
FLANGE WITH STAINLESS STEEL BOLTS, WASHER AND NUT
PRESSURE REGULATOR/MASTER VALVE
BASKET STRAINER
PIPE SUPPORT (GRINNEL) WITH 12'' SQUARE FOOTING
3/4 INCH DIAMETER ROCK, 6 INCHES DEEP

SECTION VIEW - N.T.S.

NOTE: WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

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REVISIONS

CITY OF IRVINE

STANDARD PLAN NO.

505A

STRAINER / PRESSURE REDUCING VALVE

4'' AND LARGER ASSEMBLY

Approved by: Mark L. Curren P.C.E. 31519
City Engineer

Date: 6-22-08

Sheet 1 of 1
FINISHED GRADE IN TURF AREAS

10 INCH DIA. ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. HEAT BRAND "GV" ONTO LID.

FINISHED GRADE IN SHRUB AREAS

6 INCH PVC CL 160 PIPE

THREADED END BRONZE GATE VALVE WITH BRONZE CROSS HANDLE

BRICK SUPPORTS (3 EACH)

LANDSCAPE FABRIC

PRESSURE SUPPLY LINE

SCH. 40 PVC FEMALE ADAPTER, LINE SIZE

SCH. 80 PVC THREADED ONE END NIPPLE, LINE SIZE TO MATCH MAINLINE

SECTION VIEW - N.T.S.

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP TO TOP OF VALVE NUT

NOTE:
INSTALL VALVE BOX AND PIPE EXTENSION AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
FINISHED GRADE IN TURF AREAS

10 INCH DIA. ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. HEAT BRAND "GV" ONTO LID.

FINISHED GRADE IN SHRUB AREAS

6 INCH PVC CL 160 PIPE

FLANGED END GATE VALVE W/ 2 INCH SQUARE AWWA OPERATING NUT

BRICK SUPPORTS (3 EACH)

SCH 80 PVC FLANGES SOLVENT WELD TYPE

PRESSURE SUPPLY LINE

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP TO TOP OF VALVE NUT

LANDSCAPE FABRIC

6 INCH MINIMUM HEIGHT PIPE SUPPORTS (GRINNEL)

TYPE V CEMENT, 2500 PSI CONCRETE SUPPORT PAD. MINIMUM SIZE OF 12" x 12" x 4".

SECTION VIEW - N.T.S.

NOTE:
CONTRACTOR TO PROVIDE ONE 5 FOOT LONG TEE WRENCH WITH SQUARE NUT ADAPTER FOR THE OPERATION OF GATE VALVES.

INSTALL VALVE BOX AND PIPE EXTENSION AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

GATE VALVE 2 1/2 INCHES AND LARGER

STANDARD PLAN NO. 507

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REVISIONS

CITY OF IRVINE

Approved by: Mark L. Carroll, R.E., 31515
City Engineer

Date: 6-22-09

Sheet 1 of 1
FINISHED GRADE IN TURF AREAS
10 INCH DIA. ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT NUT AND WASHER. HEAT BRAND "QCV" ONTO LID.

FINISHED GRADE IN SHRUB AREAS

QUICK COUPLER VALVE

RECLAIMED WATER TAG IN ACCORDANCE WITH IRWD STANDARDS

STAINLESS STEEL CLAMPS, 2 REQUIRED

BRICK SUPPORTS (3 EACH)

BRASS SWING JOINT WITH 2 BRASS STREET ELLS, A BRASS ELL AND 2 BRASS NIPPLES. HORIZONTAL NIPPLE SHALL BE 6 INCH LONG, VERTICAL NIPPLE, LENGTH AS REQUIRED. SIZE TO MATCH QCV INLET.

PVC MAINLINE AND FITTING #4 x 36 INCH REBAR STAKE

LANDSCAPE FABRIC

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP TO BOTTOM OF VALVE

SECTION VIEW - N.T.S.

NOTE:
USE TEFLOM TAPE ON ALL THREADED FITTINGS.
QUICK COUPLER KEY MUST CLEAR VALVE BOX.
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
FINISHED GRADE IN TURF AREAS

12 INCH x 17 INCH PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "FS" ONTO LID.

FLOW SENSOR

FINISHED GRADE IN SHRUB AREAS

WIRE CONNECTORS PURSUANT TO STANDARD PLAN NO. 516

RED WIRE FROM SENSOR TO OUTPUT TRANSMITTER

BLACK WIRE FROM SENSOR TO OUTPUT TRANSMITTER

CONDUIT BUSHING SEAL CONDUIT ENDS WITH SPRAY FOAM.

PVC MAINLINE PIPE TO CONTROL VALVES

BRICK SUPPORTS AT EACH CORNER

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP

9516-25P CABLE TO ENCLOSURE HOUSING FLOW SENSING EQUIP.

PVC MAINLINE PIPE FROM MASTER VALVE

SECTION VIEW - N.T.S.

NOTE:
INSTALL FLOW SENSOR PURSUANT TO THE MANUFACTURER'S RECOMMENDATIONS AND WIRE TRANSMITTER TO THE IRRIGATION CONTROLLER.

THE MAINLINE PIPE SHALL NOT CHANGE SIZE OR DIRECTION CLOSER THAN 5 FEET UPSTREAM OR 3 FEET DOWNSTREAM OF THE FLOW SENSOR.

USE 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH ON THE DOWNSTREAM SIDE OF THE FLOW SENSOR.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
FINISHED GRADE IN TURF AREAS

12 INCH x 17 INCH PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "RCV" AND VALVE NUMBER ON LID.

CONTROL WIRES SIZED PURSUANT TO PLAN. COIL 36 INCH MINIMUM LENGTH OF WIRE IN VALVE BOX. (TYPICAL)

REMOTE CONTROL VALVE

FINISHED GRADE IN SHRUB AREAS

WIRE CONNECTORS PURSUANT TO STANDARD PLAN NO. 516

VALVE ID TAGS

PVC SCH 40 MALE ADAPTER

PVC LATERAL LINE

BRICK SUPPORTS

PVC MAINLINE PIPE

LANDSCAPE FABRIC

SCH 80 PVC NIPPLE LENGTH AS REQUIRED

SCH 80 PVC TEE SXSXT, MAINLINE X MAINLINE X VALVE SIZE

3/4 INCH DIAMETER ROCK, 6 INCHES DEEP

SECTION VIEW - N.T.S.

NOTE:
INSTALL CONTROL VALVES A MINIMUM OF TWO FEET APART IN SHRUB AREAS UNLESS OTHERWISE NOTED.

INSTALL CHRISTY'S MODEL #3800 RECLAIMED WATER IDENTIFICATION NAME PLATES TO THE LID OF EACH RECLAIMED WATER VALVE BOX.

USE TEFOLON TAPE ON THREADED FITTINGS.

WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
SATELLITE WITHOUT CCU (TYPICAL)
FLOW SENSOR W/ SENSOR CABLE
CONTROL VALVES W/ DIRECT BURIAL WIRE
MAXI-WIRE COMMUNICATION CABLE IN CONDUIT

SATELLITE WITH CCU AS PART OF ASSEMBLY

CONTROLLERS AND ENCLOSURES FOR SCHEMATIC DRAWING CLARITY ONLY. REFER TO THE CONTROLLER DETAILS FOR ACTUAL INSTALLATION.

TO ELECTRICAL SERVICE
TO PHONE SERVICE
COMMUNICATION CABLE TO OTHER SATELLITES IN CONDUIT

TO ELECTRICAL SERVICE

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Approved by: Mark L. Carrol B.C.E. 11515 City Engineer
Date: 6-22-09
Sheet 1 of 1
STAINLESS STEEL ENCLOSURE:
24 INCH WIDE FRONT ENTRY, WALL MOUNT TYPE. (IN A SECURE LOCATION, ENCLOSURE MAY NOT BE REQUIRED. VERIFY LOCATION WITH CITY INSPECTOR.)

SATELLITE CONTROLLER
GFCI TYPE POWER SWITCH AND RECEPTACLE
TERMINAL STRIP FOR VALVE WIRES

FLOW SENSOR OUTPUT TRANSMITTER WITH PULSE DECODER AND SENSOR DECODERS AS REQUIRED
CLUSTER CONTROL UNIT 6 OR 28 CHANNEL AS INDICATED ON LEGEND
STAINLESS STEEL, U.L. LISTED, PREDRILLED, REMOVABLE BACKBOARD
1 INCH MIN. PVC CONDUIT/SWEEP FOR ELECTRICAL SERVICE
1 INCH PVC CONDUIT/SWEEP FOR TELEPHONE SERVICE CONDUIT CONNECTIONS AS REQUIRED
BUILDING FOUNDATION BY OTHERS, COORDINATE CONDUIT ROUTING
1 1/4 INCH PVC CONDUIT/SWEEP FOR COMMUNICATION CABLE TO OTHER SATELLITES
3 INCH MIN. PVC CONDUIT/SWEEP FOR CONTROL WIRES TO VALVES
1 INCH PVC CONDUIT/SWEEP FOR FLOW SENSOR CABLE

BUILDING WALL, BY OTHERS
12" MIN.

NOTES:
ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

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REVISIONS
CITY OF IRVINE
STANDARD PLAN NO.

SATELLITE CONT. W/ CCU, INTERIOR INSTALLATION

Approved by: Mark L. Carroll, P.E. 11515
City Engineer
Date 6-22-08

Sheet 1 of 1
STAINLESS STEEL FLIP TOP LID, SHOWN IN OPEN POSITION

16 INCH WIDE TOP-ENTRY CONTROLLER ENCLOSURE NEMA 3R RAINPROOF RATED CLUSTER CONTROL UNIT (CCU)

POWER SWITCH AND RECEPTACLE

FLOW SENSOR OUTPUT TRANSMITTER WITH PULSE DECODER AND SENSOR DECODERS AS REQUIRED

DUAL HYDRAULIC PISTONS SUPPORT LID OPEN

CONTROLLER ENCLOSURE DIMENSIONS WHEN CLOSED: 38"H x 16"W x 15.5"D

TERMINAL BLOCK FOR COMMUNICATION CABLE

TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION

STAINLESS STEEL, U.L. LISTED, PREDRILLED, REMOVABLE BACKBOARD. REMOVABLE FRONT PANEL NOT SHOWN

FINISHED GRADE

2500 PSI, TYPE V, CONCRETE PAD 19" x 19" x 12" DEEP. SLOPE EDGES TO DRAIN.

3 INCH MIN. PVC CONDUIT FOR CONTROL WIRES TO VALVES

1 1/4 INCH PVC CONDUIT FOR COMMUNICATION CABLE TO OTHER CONTROLLERS

1 INCH MIN. PVC CONDUIT/SWEEP FOR GROUND ROD CABLE

1 INCH PVC CONDUIT/SWEEP FOR TELEPHONE LINE

1 INCH PVC CONDUIT/SWEEP FOR FLOW SENSOR/MVC WIRES

1 1/4 INCH PVC CONDUIT/SWEEP FOR ELECTRICAL SERVICE

NOTES:
HEAT BRAND "GR" ONTO LID.

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.
CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

PROVIDE A SEPARATE 5/8 INCH DIA x 8 FOOT COPPER GROUND ROD, WIRE, AND CLAMP INSIDE CABINET FOR ELECTRICAL SERVICE PURSUANT TO THE CALIFORNIA ELECTRICAL CODE.

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STAINLESS STEEL ENCLOSURE, 18 INCH WIDE FRONT ENTRY, WALL MOUNT TYPE. (IN A SECURE LOCATION, ENCLOSURE MAY NOT BE REQUIRED. VERIFY LOCATION WITH CITY INSPECTOR.)

SATELLITE CONTROLLER

GFCSI TYPE POWER SWITCH AND RECEPTACLE

TERMINAL STRIP FOR VALVE WIRES

BUILDING WALL, BY OTHERS

FLOW SENSOR OUTPUT TRANSMITTER WITH PULSE DECODER AND SENSOR DECODERS AS REQUIRED

STAINLESS STEEL, U.L. LISTED, PREDRILED, REMOVABLE BACKBOARD

1 INCH PVC CONDUIT FOR ELECTRICAL SERVICE

CONDUIT CONNECTIONS AS REQUIRED

BUILDING FOUNDATION BY OTHERS, COORDINATE CONDUIT ROUTING

1 INCH PVC CONDUIT FOR FLOW SENSOR CABLE

3 INCH MIN. PVC CONDUIT FOR CONTROL WIRES TO VALVES

1 1/4 INCH PVC CONDUIT FOR COMMUNICATION CABLE TO CLUSTER CONTROL UNIT

NOTES:

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.
STAINLESS STEEL FLIP TOP LID, SHOWN IN OPEN POSITION

CONTROLLER

STAINLESS STEEL 16 INCH WIDE TOP-ENTRY CONTROLLER ENCLOSURE NEMA 3R RAINPROOF RATED

FLOW SENSOR OUTPUT TRANSMITTER WITH PULSE DECODER AND SENSOR DECODERS AS REQUIRED

POWER SWITCH AND GFCI RECEPTACLE

DUAL HYDRAULIC PISTONS SUPPORT LID OPEN

CONTROLLER ENCLOSURE DIMENSIONS WHEN CLOSED: 38"H x 16"W x 15.5"D

TERMINAL BLOCK FOR COMMUNICATION CABLE

TERMINAL STRIP FOR REMOTE CONTROL VALVE WIRE CONNECTION

STAINLESS STEEL, U.L. LISTED, PREDRILLED, REMOVABLE BACKBOARD. REMOVABLE FRONT PANEL NOT SHOWN.

FINISHED GRADE

2500 PSI, TYPE V, CONCRETE PAD 19" x 19" x 12" DEEP. SLOPE EDGES TO DRAIN.

3 INCH MIN. PVC CONDUIT FOR CONTROL WIRES TO VALVES

1 1/4 INCH PVC CONDUIT FOR COMMUNICATION CABLE TO OTHER CONTROLLERS

1 INCH PVC CONDUIT/SWEEP FOR GROUND ROD CABLE

1 INCH PVC CONDUIT/SWEEP FOR FLOW SENSOR/MCV WIRES

1 1/4 INCH PVC CONDUIT/SWEEP FOR ELECTRICAL SERVICE

5/8 INCH DIA. x 8 FOOT COPPER GROUND ROD W/ #10 GROUND WIRE AND CLAMP IN 10 INCH DIA. ROUND PLASTIC VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. HEAT BRAND "GR" ONTO LID.

NOTES:

ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. CALIFORNIA ELECTRICAL CODE.

CONTROLLER, ENCLOSURE, AND ALL OF THE REQUIRED COMPONENTS SHALL BE PART OF A PRE-ASSEMBLED SATELLITE ASSEMBLY.

PROVIDE A SEPARATE 5/8 INCH DIA x 8 FOOT COPPER GROUND ROD, WIRE, AND CLAMP INSIDE CABINET FOR ELECTRICAL SERVICE PURSUANT TO THE CALIFORNIA ELECTRICAL CODE.

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REVISIONS

CITY OF IRVINE

STANDARD PLAN NO.

515

Approved by: Mark L. Carroll R.C.E., 31515
City Engineer

Date: 6-22-09

Sheet 1 of 1
LOW VOLTAGE WIRES, 3 MAXIMUM
WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE

POLY TUBE PRE-FILLED WITH WATERPROOF GEL

LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED

SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2 INCH OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ON TO WIRES TO SEAT FIRMLY.

SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY DIRECT BURY SPLICE KIT.
KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE, AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2#12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.
FINISHED GRADE IN TURF AREAS

12 INCH x 17 INCH PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "PB" ONTO LID.

SEAL CONDUIT ENDS WITH SPRAY FOAM

WIRE CONNECTORS PURSUANT TO STANDARD PLAN NO. 516

FINISHED GRADE IN SHRUB AREAS

LOW VOLTAGE CONTROL WIRE COIL, 24 INCHES MINIMUM

BRICK SUPPORTS AT EACH CORNER

CONDUIT, IF SPECIFIED

LANDSCAPE FABRIC
3/4 INCH DIAMETER ROCK, 6 INCHES DEEP

NOTE:
ALL CONTROL WIRE SPLICES SHALL BE INSTALLED INSIDE PULL BOXES.
ALL SPLICES SHALL BE MADE IN ACCORDANCE WITH STANDARD PLAN NO. 516.
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.
FINISHED GRADE IN TURF AREAS

12 INCH x 17 INCH PLASTIC RECTANGULAR VALVE BOX (GREY IN COLOR) WITH BOLT DOWN COVER. USE STAINLESS STEEL BOLT, NUT AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "IRR-COM" ONTO LID.

CONDUIT BUSHING, SEAL CONDUIT ENDS WITH SPRAY FOAM
PERMANENT IDENTIFICATION BAND

FINISHED GRADE IN SHRUB AREAS

IRRIGATION INTERCONNECT CABLE OR FLOW SENSOR WIRE WITH MIN. 24-INCH LOOP

BRICK SUPPORTS AT EACH CORNER
UL LISTED PVC SCH 40 90° SWEEP, 2 REQUIRED
UL LISTED PVC SCH 40 CONDUIT
UL LISTED PVC SCH 40 SXS COUPLING, 4 REQUIRED

3/4 INCH DIAMETER ROCK, 6 INCHES THICK

SECTION VIEW - N.T.S.

NOTE:
THE ENDS OF CONDUIT SHALL BE CAPPED UNTIL PULLING OF CONDUCTORS IS STARTED
WRAP LANDSCAPE FABRIC AROUND SIDES AND BOTTOM OF BOX TO COVER ALL OPENINGS.

REVISIONS

CITY OF IRVINE

STANDARD PLAN NO.

518

Mark L. Carroll R.O.E. 31515
City Engineer

Date: 6-22-09

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FINISHED GRADE

RUBBER DRAIN CAP, 4 INCH DIAMETER.
SECURE WITH STAINLESS STEEL HOSE CLAMP.

CONCRETE SIDEWALK AND TREE GRADE OPTIONAL

BUBBLER HEAD TOP 1 INCH BELOW FINISHED GRADE

SCH 80 NIPPLE, LENGTH AS REQUIRED

NATIVE SOIL

DRILL THROUGH 4 INCH DRAIN PIPE

PVC LATERAL LINE

1/2 INCH DIAMETER PVC ELL (SxT)

AMENDED NATIVE SOIL BACKFILL

UNAMENDED NATIVE SOIL BACKFILL

4 INCH DIA. x 36 INCHES LONG PERFORATED PVC DRAIN PIPE. FILL WITH 3/4 INCH DIAMETER GRAVEL TO BOTTOM.

ROOT BALL OF TREE

ROOT BALL OF TREE

BUBBLER HEADS AS SHOWN ABOVE

PVC LATERAL LINE PIPE

NOTES:

PROVIDE BUBBLER QUANTITIES AS INDICATED ON APPROVED PLANS.

USE TEFLOM TAPE ON ALL THREADED FITTINGS.
SHRUB SPRINKLER HEAD ROTOR OR SPRAY TYPE

SCH 80 PVC NIPPLE, SIZE TO MATCH INLET. LENGTH AS REQUIRED, 2 REQUIRED WHEN ANTI-DRAIN VALVE IS USED.

ANTI-DRAIN VALVE WHERE REQUIRED

REBAR STAKE, 1 REQUIRED #4 x 30 INCHES IN LENGTH

STAINLESS STEEL CLAMP USE IN 3 PLACES

ULTRA-VIOLET RESISTANT PVC STREET ELLS, 2 REQUIRED

ULTRA-VIOLET RESISTANT PVC TEE OR ELL

ULTRA-VIOLET RESISTANT SCH 40 PVC PIPE, SEE PLANS FOR SIZE

FINISH GRADE

#4 x 18 INCH REBAR J-HOOK. REQUIRED EVERY 7 FEET, TYPICAL

NOTE:
ALL PIPE INSTALLED ON GRADE TO BE SCH 40 ULTRA-VIOLET RESISTANT PVC.

SPRINKLER HEAD ASSEMBLY TO BE INSTALLED PLUMB.

DO NOT INSTALL SPRINKLER HEAD ASSEMBLY CLOSER THAN 5 FEET TO SIDEWALKS, CURBS, DRIVEWAYS, OR PEDESTRIAN AREAS.

USE TEFLOM TAPE ON ALL THREADED FITTINGS.

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REVISIONS

CITY OF IRIrvine

STANDARD PLAN NO.

SPRINKLER HEAD ON RISER ON GRADE

520

Approved by: Mark L. Carroll, P.E., 31515
City Engineer

Date: 8-22-99

Sheet 1 of 1
INSTALL SPRINKLER HEAD FLUSH WITH FINISHED GRADE IN TURF AREAS

POP-UP SPRINKLER HEAD, ROTOR OR SPRAY TYPE

INSTALL SPRINKLER HEAD 1/2 INCH ABOVE FINISHED GRADE IN SHRUB AND GROUND COVERS AREAS

NATIVE OR AMENDED SOIL

TRIPLE SWING JOINT, WITH PVC SCH 80 NIPPLES AND STREET ELLS MALE IRON PIPE THREAD (MIPT) INLET AND MIPT OUTLET. LAY LENGTH TO BE 6 INCHES MINIMUM. SIZE PURSUANT TO SPRINKLER INLET.

SCH 40 PVC SxSxT TEE FITTING LATERAL x SPRINKLER INLET SIZE

LATERAL LINE

NOTE:
INSTALL SPRINKLER HEADS 6 INCHES FROM PAVING EDGE IN GROUND COVER AREAS.
INSTALL SPRINKLER HEADS 4 INCHES FROM PAVING EDGE IN TURF AREAS.
INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS, OR BUILDINGS.
USE TEFLOM TAPE ON ALL THREADED FITTINGS.

REVISIONS

CITY OF IRVINE

STANDARD PLAN NO. 521

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Approved by: Mark L. Carroll R.C.E. 31515 City Engineer

Date: 6-22-09

Sheet 1 of 1
INSTALL SPRINKLER HEAD FLUSH WITH FINISHED GRADE IN TURF AREAS

POP-UP SPRINKLER HEAD ROTOR OR SPRAY TYPE

INSTALL SPRINKLER HEAD 1/2 INCH ABOVE FINISHED GRADE IN SHRUB AND GROUND COVERS AREAS

NATIVE OR AMENDED SOIL

TRIPLE SWING JOINT, WITH PVC SCH 80 NIPPLES AND SCH 40 STREET ELLS MALE IRON PIPE THREAD (MIPT) INLET AND MIPT OUTLET. LAY LENGTH TO BE 6 INCHES MINIMUM.
NO MARLEX FITTINGS

SCH. 40 PVC SxSxT TEE FITTING LATERAL x SPRINKLER INLET SIZE

LATERAL LINE

NOTE:
INSTALL SPRINKLER HEADS 2 INCHES FROM PAVING EDGE.
INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.
USE TEFLOM TAPE ON ALL THREADED FITTINGS.
CONCRETE HEADER WIDTH    X
AGAINST CURBS    12"
AGAINST WALLS    8"
BETWEEN TURF AND GROUND COVER    6"

NOTE:
PROVIDE SCORE JOINTS AT 10'-0" ON CENTER.

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REVISIONS

CITY OF IRVINE

CONCRETE HEADER

STANDARD PLAN NO. 600

Approved by: Mark L. Carroll, R.C.E., 31515
City Engineer
Date: 6-22-09

Sheet 1 of 1
NOTE: LOCATE PLANTS SPACED EQUAL DISTANT (D) FROM EACH OTHER AS SHOWN ON PLANTING PLAN AND MINIMUM OF 12" FROM SPRINKLER HEAD.

TOP OF ROOTBALL TO BE 1/2 INCH ABOVE FINISHED GRADE.

6 INCH BASIN

FINISHED GRADE

PLANTING TABLETS PURSUANT TO APPROVED SOILS REPORT

PLANTING BACKFILL PUDDLE AND SETTLE TO SET PLANT AT FINISHED GRADE

TRANSITIONAL ZONE OF COMPACTED, UNAMENDED NATIVE SOIL

NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM THE SHRUB STEM.

SHRUB PLANTING

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REVISIONS

CITY OF IRVINE

STANDARD PLAN NO.

601

Approved by: Mark L. Carrell R.E.C.E. 11515
City Engineer

Date: 6-22-99
TOP OF ROOTBALL TO BE 1/2 INCH ABOVE FINISHEDGRADE

BACKFILL MIX PURSUANT TO APPROVED SOILS REPORT

6 INCH BASIN

1-1/2X ROOTBALL

6" MIN.

2X ROOTBALL

FINISHED GRADE

PLANTING TABLETS PURSUANT TO APPROVED SOILS REPORT

TRANSITIONAL ZONE OF COMPACTED, UNAMENDED NATIVE SOIL

NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM THE SHRUB STEM.
NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM THE VINE STEM.
PREVAILING WIND

LODGE POLE PINE
STAKE, 8 FOOT LONG,
1 REQUIRED

TREESTRAP®

TRUNK PROTECTOR FOR
TREES IN TURF

MAINTAIN TURF FREE
AREA 12 INCHES FROM TRUNK

TOP OF ROOTBALL TO BE 1/2
INCH ABOVE FINISHED GRADE.

FINISHED
GRADE

PLANTING TABLETS PURSUANT
TO APPROVED SOILS REPORT

PLANTING BACKFILL PURSUANT
TO APPROVED SOILS REPORT

TRANSITIONAL ZONE
OF COMPACTED,
UNAMENDED NATIVE
SOIL

NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH.
MULCH TO BE 6 INCHES AWAY FROM THE TREE TRUNK.
TOP OF ROOTBALL TO BE 1/2 INCH ABOVE FINISHED GRADE.

PREVAILING WIND

LODGE POLE PINE
STAKE, 8 FOOT
LONG, 1 REQUIRED
TREESTRAP®

6 INCH BASIN
IN GROUND COVER

1-1/2X
ROOTBALL

2X ROOTBALL

MIN 6"

FINISHED GRADE

PLANTING TABLETS PURSUANT TO APPROVED SOILS REPORT

PLANTING BACKFILL PURSUANT TO APPROVED SOILS REPORT

TRANSITIONAL ZONE OF COMPACTED, UNAMENDED NATIVE SOIL

NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM THE TREE TRUNK.
LODGE POLE PINE STAKES, 10 FOOT LONG, 2 REQUIRED TREATESTRAP®

TRUNK PROTECTOR FOR TREES IN TURF

MAINTAIN TURF FREE AREA 12 INCHES FROM TRUNK. TOP OF ROOTBALL TO BE 1/2 INCH ABOVE FINISHED GRADE.

FINISHED GRADE

PLANTING TABLETS PURSUANT TO APPROVED SOILS REPORT

PLANTING BACKFILL PURSUANT TO APPROVED SOILS REPORT

TRANSITIONAL ZONE OF COMPACTED, UNAMENDED NATIVE SOIL

NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM THE TREE TRUNK.
NOTE: ALL PLANT BASINS SHALL RECEIVE A 2 INCH LAYER OF APPROVED MULCH. MULCH TO BE 6 INCHES AWAY FROM TREE TRUNK.

1-1/2X ROOTBALL

6" MIN.

2X ROOTBALL

TRANSITIONAL ZONE OF COMPACTED, UNAMENDED NATIVE SOIL

PLANTING BACKFILL PURSUANT TO APPROVED SOILS REPORT

PLANTING BACKFILL PURSUANT TO APPROVED SOILS REPORT

6-INCH BASIN IN GROUND COVER

LODGEPOLE PINE
STAKES 10 FOOT LONG 2 REQUIRED

TREESTRAP

TOP OF ROOTBALL TO BE 1/2 INCH ABOVE FINISHED GRADE

FINISHED GRADE
NOTE:
1. TOP OF ROOT CONTROL BARRIER MUST BE AT GRADE.
2. POSITION ROOT CONTROL BARRIER ADJACENT TO STRUCTURE.
3. RAISED ROOT DEFLECTORS MUST BE FACING PLANTED AREA.
4. PROVIDE A MIN. OF 12 FEET OF ROOT BARRIER EACH SIDE OF TREE TRUNK.
5. ROOT BARRIER SHALL EXTEND A MIN. OF 18 INCHES BELOW GRADE ON WALK SIDE.
6. ROOT BARRIER SHALL EXTEND A MIN. OF 24 INCHES BELOW GRADE ON CURB SIDE.
7. TREE PLANTING AND STAKING SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD PLAN NOS. 604 THROUGH 607.
NOTE: LOCATE PLANTS SPACED EQUAL DISTANT (D) FROM EACH OTHER AS SHOWN ON PLANTING PLAN.

10 TO 12 INCH THICK TILLED PLANTING BED

GROUND COVER PLANT

SUBGRADE

FINISHED SURFACE OF PAVING, WALK, OR MOW STRIP

CONDITIONED SOIL

EDGE OF PAVING, WALK, WALL, ETC.

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REVISIONS

CITY OF IRVINE

STANDARD PLAN NO.

609

Approved by: Mark L. Curran R.C.E. 31515
City Engineer

Date: 6-22-08