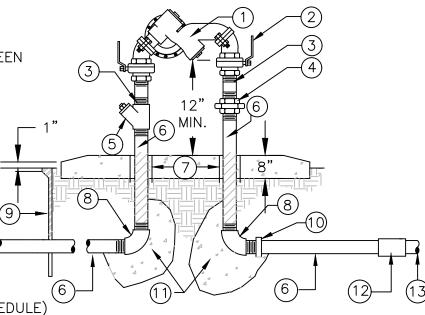
REDUCED PRESSURE BACKFLOW PREVENTION UNIT



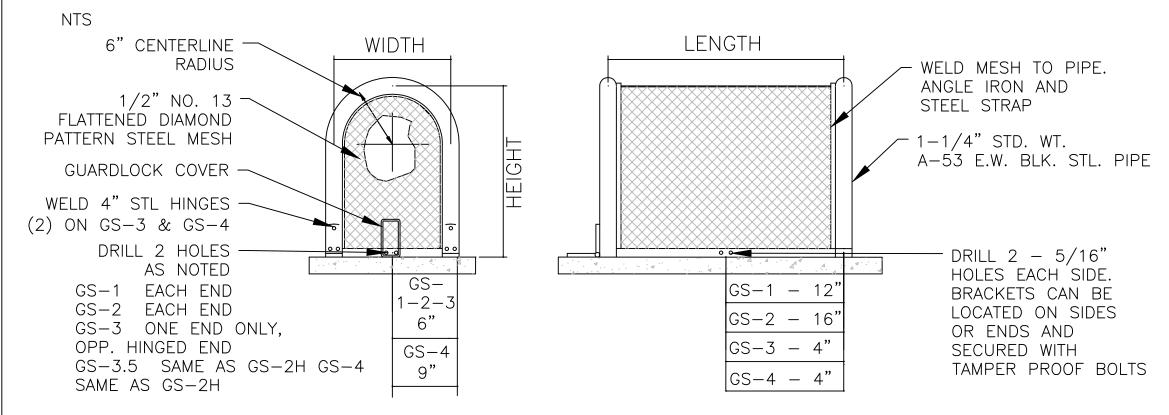


NTS

- 1. REDUCED PRESSURE BACKFLOW PREVENTION UNIT
- 2. BRONZE SHUT-OFF VALVE
- 3. BRASS NIPPLE
- 4. BRONZE UNION
- 5. BRONZE WYE STRAINER W/40 MESH SCREEN
- 6. COPPER PIPE (TYPE K HARD)
 EXTEND 12" BELOW CONCRETE PAD AND
 WRAP WITH 1" ANTI-CORROSION TAPE
- 7. PVC SLEEVES
- 8. BRASS OR COPPER 90 DEGREE ELBOW
- 9. CONC. METER BOX, INSTALLED BY THE CITY OF PHOENIX
- 10. SCH. 80 PVC TOE NIPPLE
- 11. $\frac{1}{2}$ CUBIC FOOT (MIN) CONC. THRUST BLOCK
- 12. PVC SCH 80 COUPLING
- 13. PVC MAINLINE PIPE (SEE IRRIGATION SCHEDULE) NOTE:
- 1. ON UNITS 3" AND LARGER, ALL COPPER AND BRASS PIPE FITTINGS SHALL BE FLANGED DUCTILE IRON
- 2. WRAP ALL BURIED COPPER AND BRASS PIPE AND FITTINGS WITH 1" MIN. ANTI-CORROSION TAPE TO A HEIGHT OF 6" ABOVE CONCRETE
- 3. OBTAIN REQUIRED CERTIFICATIONS PER AGENCY REQUIREMENTS



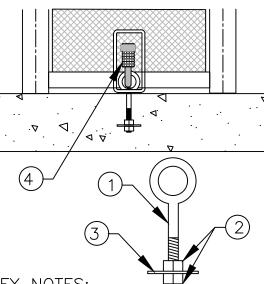
BACKFLOW SECURITY ENCLOSURE



NOTES:

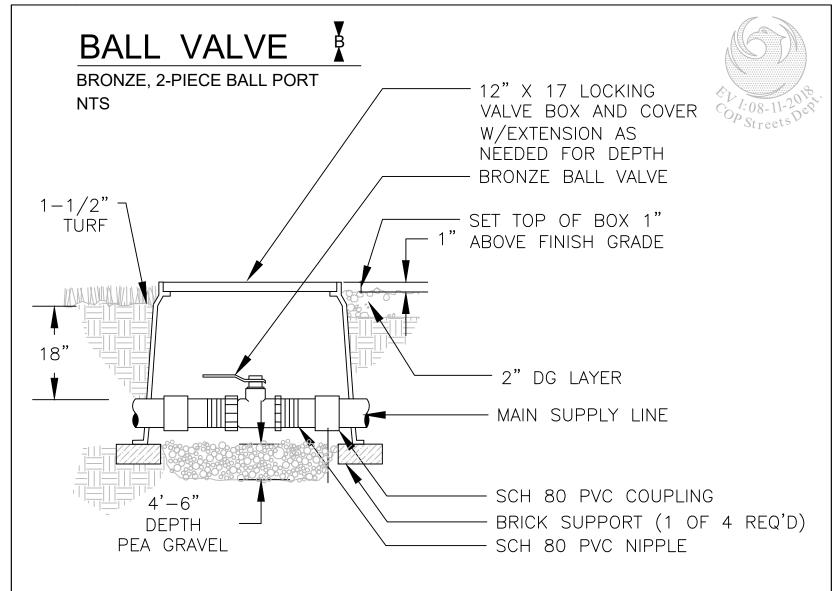
- 1. AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE PRE-TREATMENT.
- 2. ELECTROSTATIC APPLICATION OF POWDERCOAT SHALL BE FUSION BONDED PRS-B-4004-C (BEIGE) OR COLOR SELECTION TO BE APPROVED BY OWNER
- 3. ALL BOLTS FOR HINGES & HASPS SHALL BE ZINC PLATED & TAMPER PROOF
- 4. ALL WELDED AREAS SHALL BE A MINIMUM OF 1/4" WIDTH BEAD EVERY 4"
- 5. GS = POWDERCOATED STEEL GUARD SHACK





KEY NOTES:

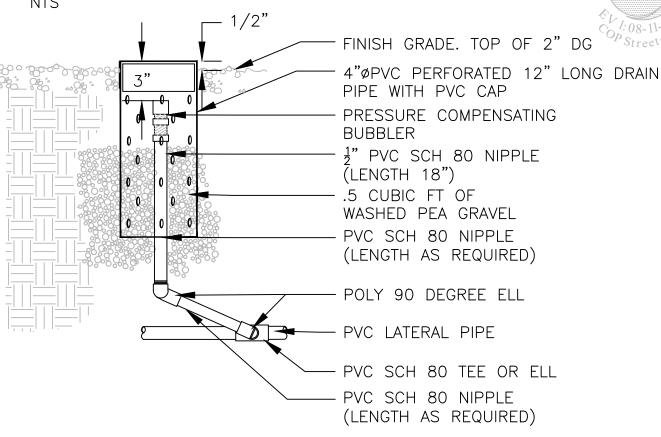
- 1. 3/8"-16-2 1/2" FORGED EYEBOLT (QTY 2)
- 2. 3/8"-16 HEX NUT (QTY 4)
- 3. 3/8" X 1/2" FENDER WASHER (QTY 2)
- 4. PADLOCK BY OWNER



- 1. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 2. VALVE BOX SHALL BE SET LEVEL AND PARALLEL TO GRADE.





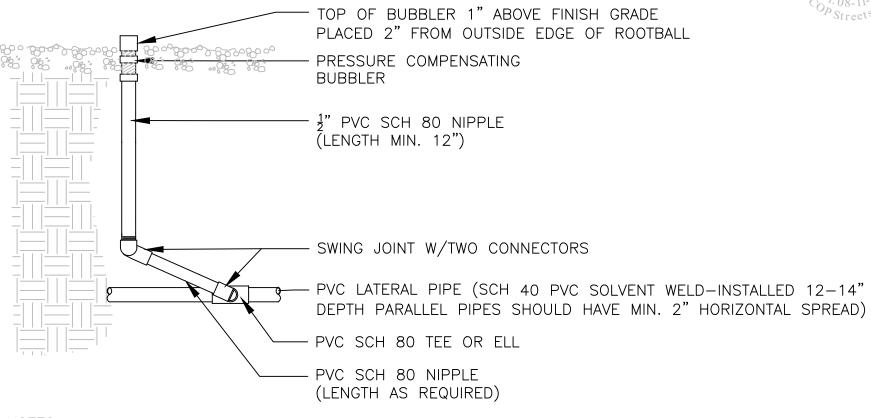


- 1. FURNISH NOMINAL FITTING SIZES IDENTICAL TO NOMINAL INLET DIAMETER OF BUBBLER.
- 2. INSTALL TWO BUBBLERS PER TREE ON OPPOSITE SIDES OF THE ROOT BALL WHERE INDICATED.

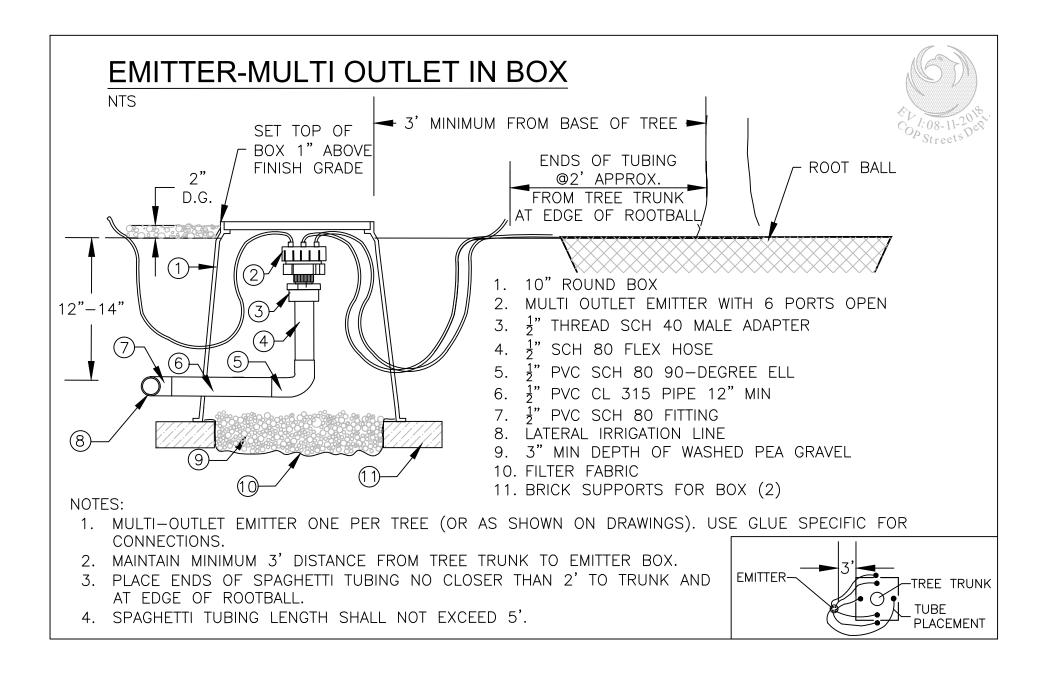
BUBBLER

NTS

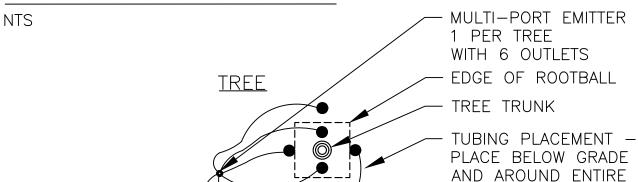


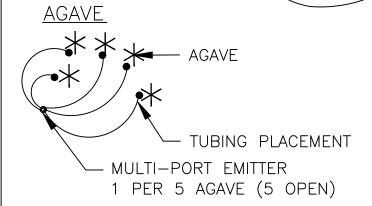


- 1. FURNISH NOMINAL FITTING SIZES TO CORRELATE WITH INLET DIAMETER OF BUBBLER.
- 2. INSTALL TWO BUBBLERS PER TREE ON OPPOSITE SIDES OF THE ROOT BALL.
- 3. INSTALL ONE BUBBLER PER SHRUB OR AS NOTED.



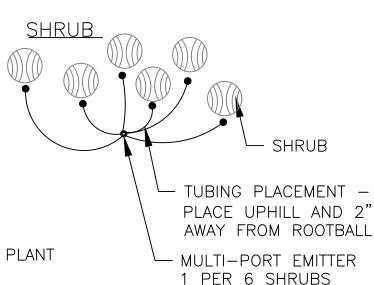






NOTES:

- 1. PLACE EMITTERS AT EDGE OF ROOTBALL
- 2. PLACE EMITTER OUTLET AT UPHILL SIDE OF PLANT IF ON A SLOPE
- 3. SPAGHETTI TUBING NO LONGER THAN 5'



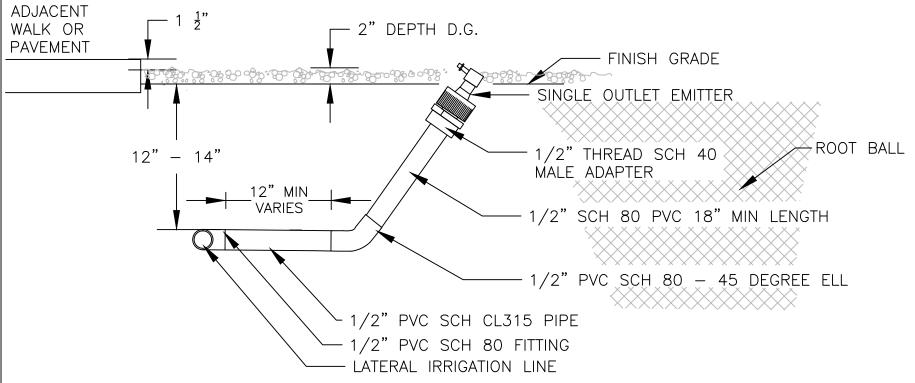
OR AS SPECIFIED

CIRCUMFERENCE OF ROOTBALL

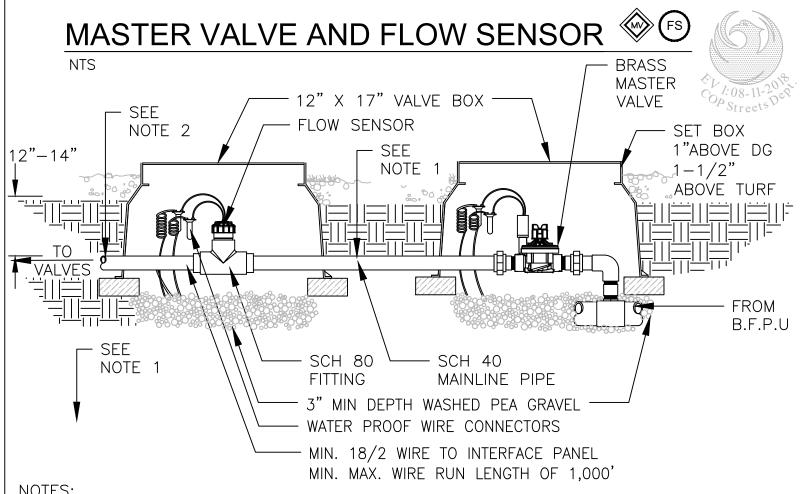
EMITTER-SINGLE OUTLET

NTS





- 1. SCH 40 PVC SOLVENT WELD-INSTALLED 12-14" DEPTH PARALLEL PIPES SHOULD HAVE MIN. 2" HORIZONTAL SPREAD
- 2. PLACE EMITTER AT UPHILL SIDE OF PLANT OUTSIDE ROOTBALL BY 2"

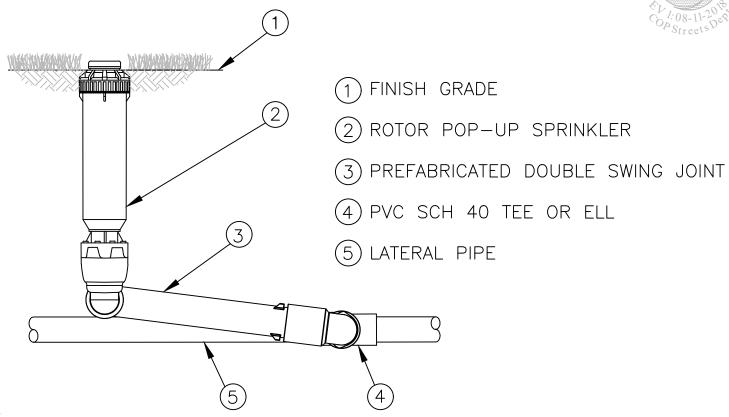


- 1. INLET PIPE LENGTH TO FLOW SENSOR MUST BE MIN. 10X PIPE DIA. IN STRAIGHT, UNOBSTRUCTED PIPE, NO FITTINGS OR TURNS.
- 2. OUTLET PIPE LENGTH FROM SENSOR MUST BE MIN. 5X PIPE DIA. IN STRAIGHT, UNOBSTRUCTED RUN OF PIPE. NO FITTINGS OR TURNS.
- 3. VERIFY MANUFACTURER SPECIFICATIONS ON DISTANCE REQUIRED BETWEEN MASTER VALVE AND FLOW SENSOR.

LARGE SPRINKLER ROTOR

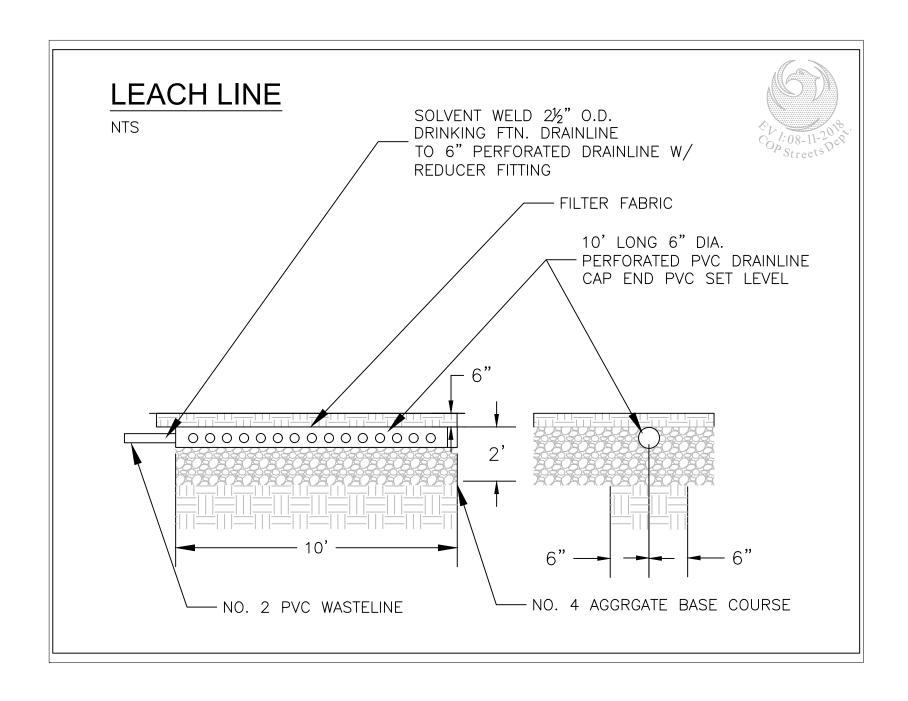
NTS





NOTE:

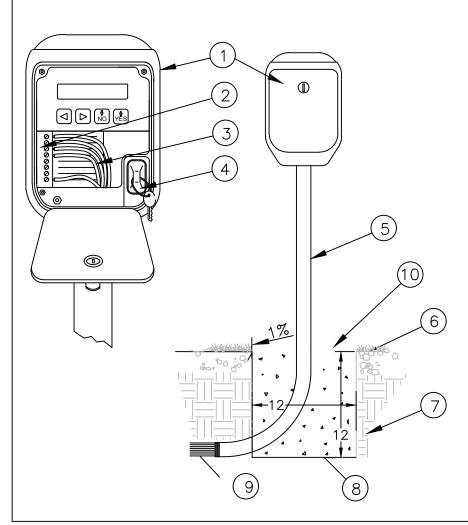
SCH. 40 PVC SOLVENT WELD-INSTALLED 12-14" DEPTH. PARALLEL PIPES SHOULD HAVE MIN. 2" HORIZONTAL SPREAD



SOLAR IRRIGATION CONTROLLER

NTS



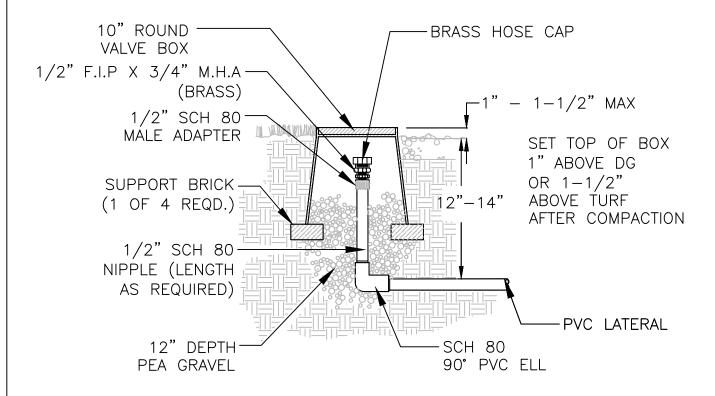


- 1. AMBIENT LIGHT POWERED IRRIGATION CONTROLLER
- 2. TERMINAL STRIP.
- 3. 12 OR 14 GAUGE WIRE
- 4. PROGRAMMING KEY
- 5. 35" HIGH X 31 CM WIDE STEEL MOUNTING COLUMN
- 6. FINISH GRADE
- 7. 6-1/2" OF BACKFILL SOIL
- 8. POURED CONCRETE BASE 1-1/2 CU.FT. INSTALL PER MANUFACTURER'S INSTALLATION GUIDE
- 9. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES
- 10. SLOPE TOP OF FOOTING AWAY FROM CENTER POST (MIN. $1\% = \frac{1}{2}$ ")

MANUAL FLUSH CAP ©

NTS





IRRIGATION PIPE AND SLEEVE SCHEDULE

Cop. Streets Des.

NTS

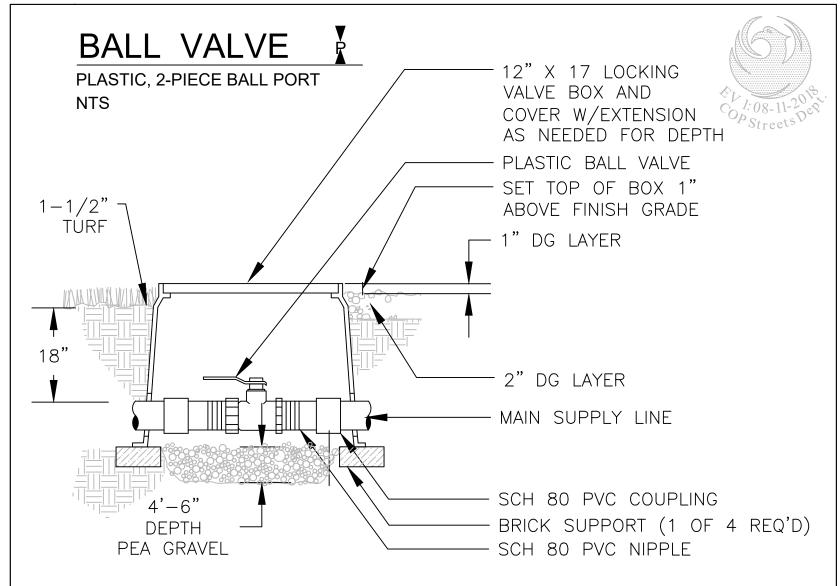
PIPE SIZE	<u>GPM</u>
1/2"	0-5
3/4"	6-10
1"	11-15
1-1/4"	16-25
1-1/2"	26-35

SLEEVE SCHEDULE

PIPE SIZE	<u>minimum</u> SLEEVE SIZE
1/2" - 3/4"	3"
1" - 2"	4"

NOTE:

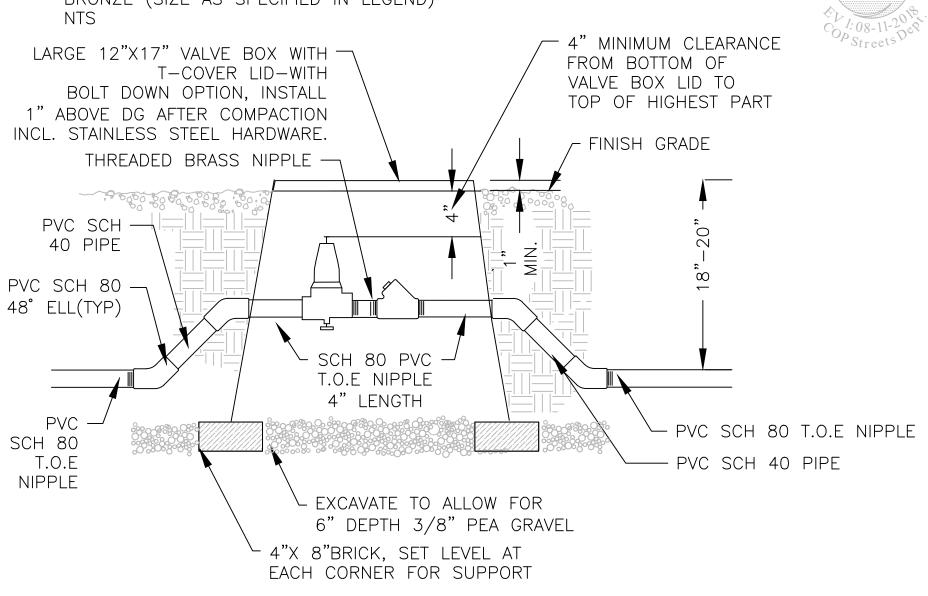
FOR MULTIPLE PIPES IN ONE SLEEVE MINIMUM, 3" OR LARGER SO PIPES MOVE FREELY IN BOTH DIRECTIONS.



- 1. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
- 2. VALVE BOX SHALL BE SET LEVEL AND PARALLEL TO GRADE.
- 3. HARDWARE SHALL BE STAINLESS STEEL BATS WITH STAINLESS STEEL WASHERS.

PRESSURE REGULATOR AND WYE STRAINER

BRONZE (SIZE AS SPECIFIED IN LEGEND)

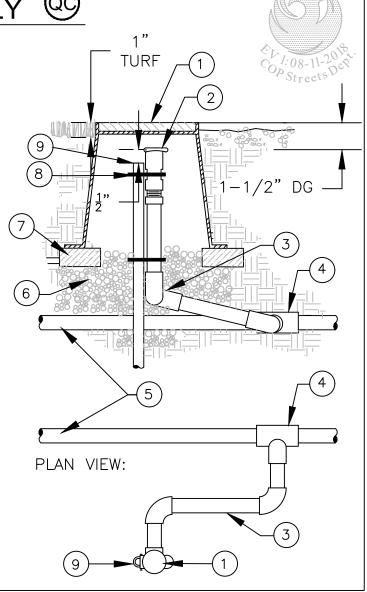


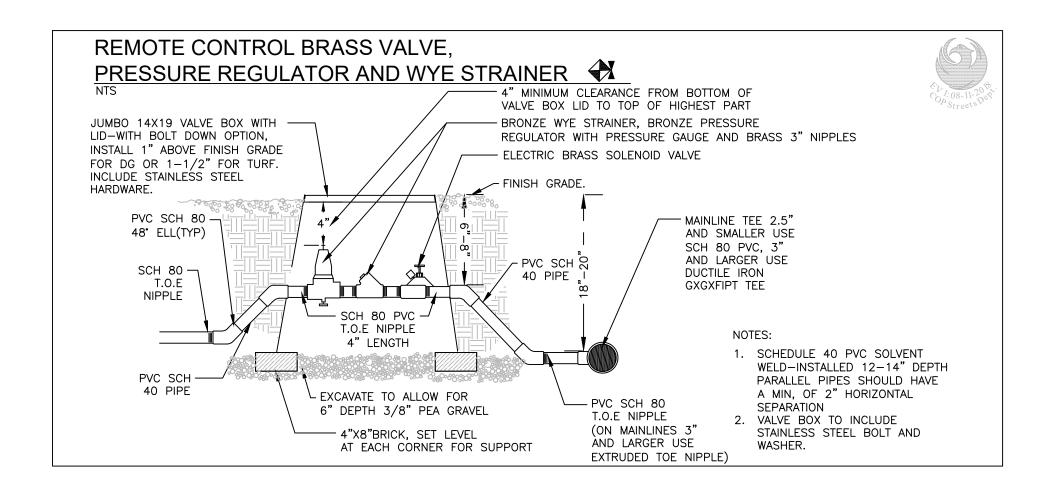
QUICK COUPLER ASSEMBLY @

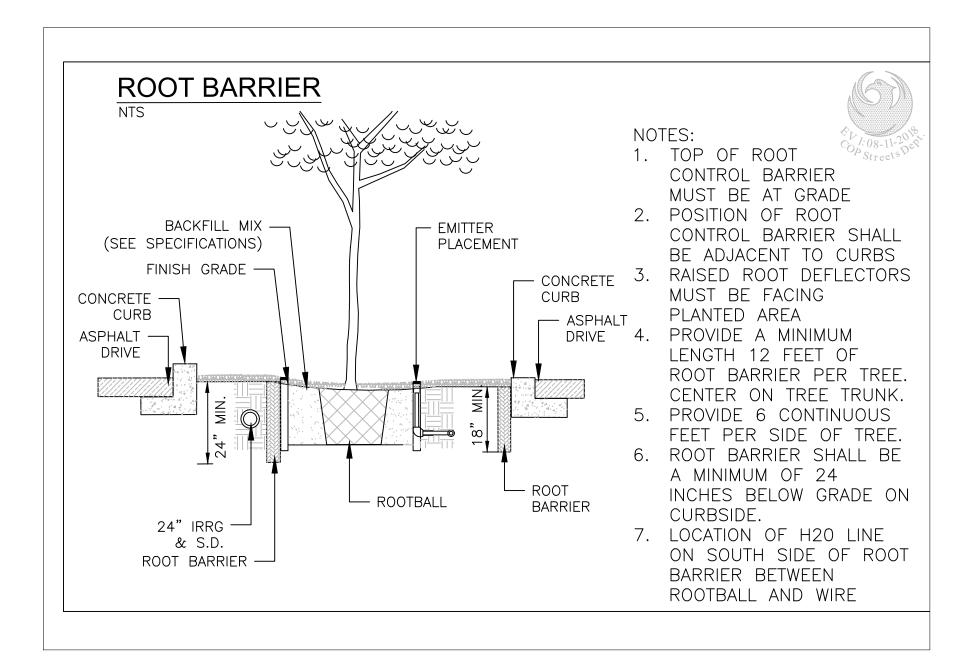
MAINLINES 2 ½" AND SMALLER NTS

- 1. 10" ROUND VALVE BOX W/T-STYLE, LOCKING BOLT COVER O.A.E. SET TOP OF VALVE BOX, 1" ABOVE TURF or $1-\frac{1}{2}$ " ABOVE DG AFTER COMPACTION.
- 2. BRASS QUICK COUPLER VALVE WITH LOCKING RUBBER COVER
- 3. UNITIZED SWING JOINT W/STABILIZED BRASS NIPPLE
- 4. PVC SCH 40 SLIP TEE
- 5. PVC SCH 40 MAINLINE PIPE
- 6. 6" LAYER PEA GRAVEL. (MIN 1 C.F.)
 EXTEND BEYOND BOX EDGES 4"x8"
 STANDARD BRICK
- 7. 1/2" WIDE STAINLESS STEEL STRAP (2)
- 8. #4 MIN. REBAR 36" LONG

- 1. 3/4"-2.5" PVC SCH. 40 MAINLINE SOLVENT WELD-INSTALLED 18-20" DEEP
- 2. SET PIPES PARALLEL IN TRENCH WITH 2" SPACE BETWEEN THEM.







REDUCED PRESSURE BACKFLOW

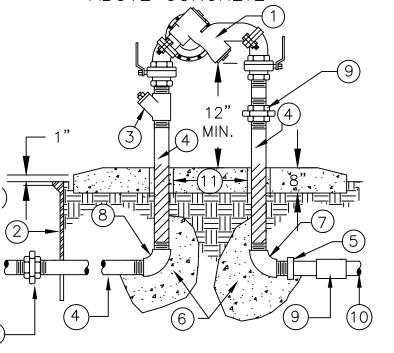
BFPU

Copstreets Dest

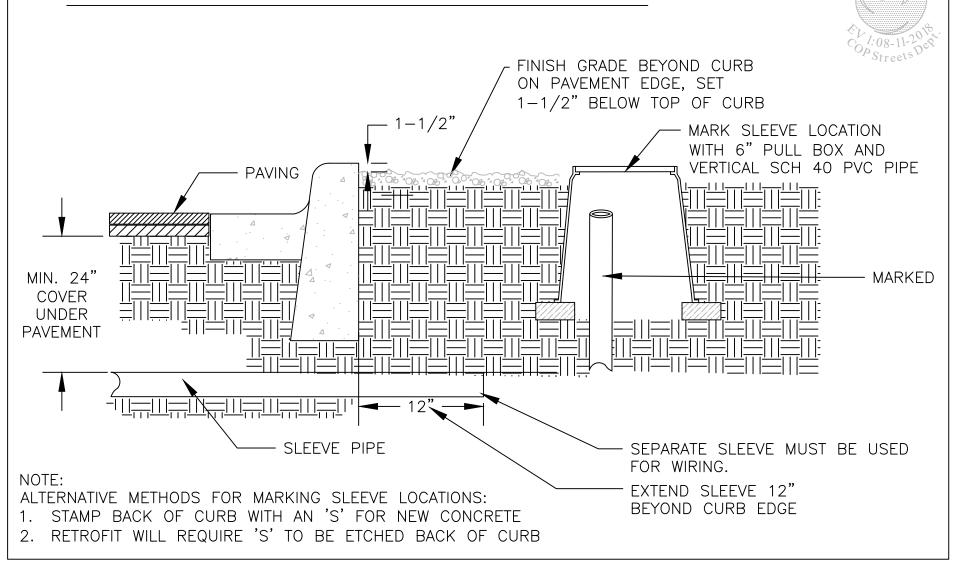
- 1. REDUCED PRESSURE BACKFLOW PREVENTION UNIT (BRASS)
- 2. CONC. METER BOX, INSTALLED BY CITY OF PHOENIX WRAP ALL BURIED COPPER
- 3. PROVIDE CMB MODEL 3131 BRONZE "Y" STRAINER W/ 40 MESH SCREEN
- 4. COPPER PIPE (TYPE K HARD)
- 5. SCH. 80 PVC TOE NIPPLE
- 6. $\frac{1}{2}$ CUBIC FOOT (MIN) CONC. THRUST BLOCK
- 7. BRASS OR COPPER 90 DEGREE ELBOW
- 8. BRONZE UNION
- 9. PVC SCH 80 COUPLING
- 10. PVC MAINLINE PIPE (SEE IRRIGATION SCHEDULE)
- 11. PVC SLEEVES

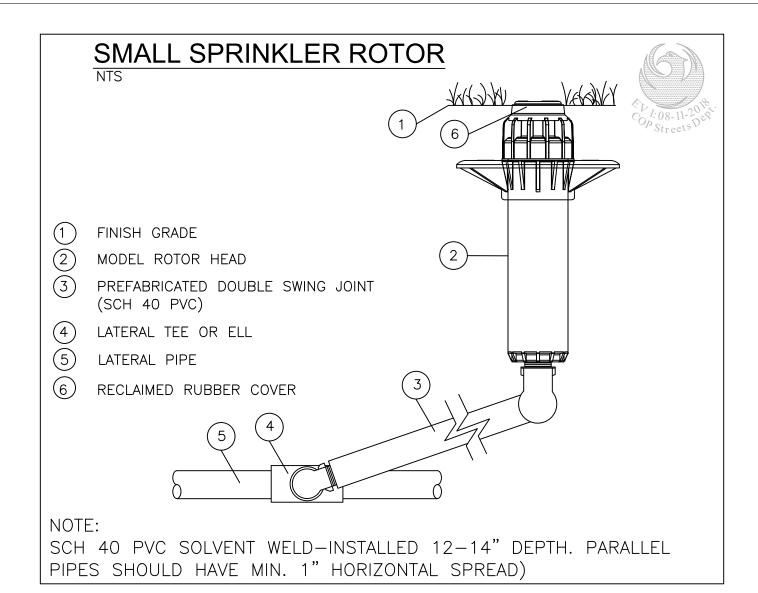
ON UNITS 3" AND LARGER, EALL COPPER AND BRASS
PIPE FITTINGS SHALL BE
FLANGED DUCTILE IRON

WRAP ALL BURIED COPPER
AND BRASS PIPE AND FITTINGS
WITH PLASTIC SAFETY CLAD
TAPE TO A HEIGHT OF 6"
ABOVE CONCRETE

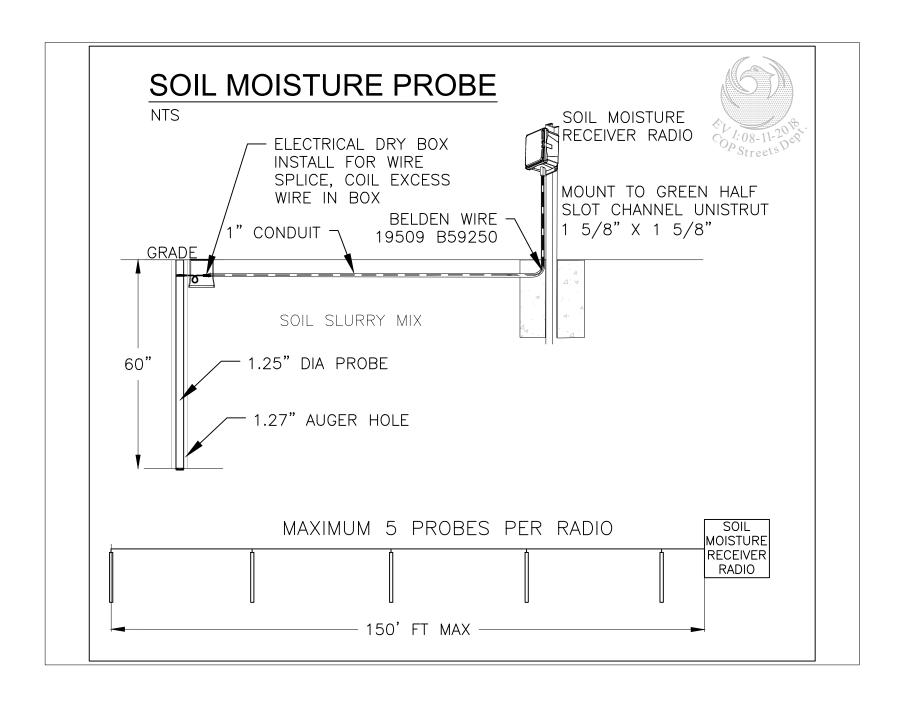


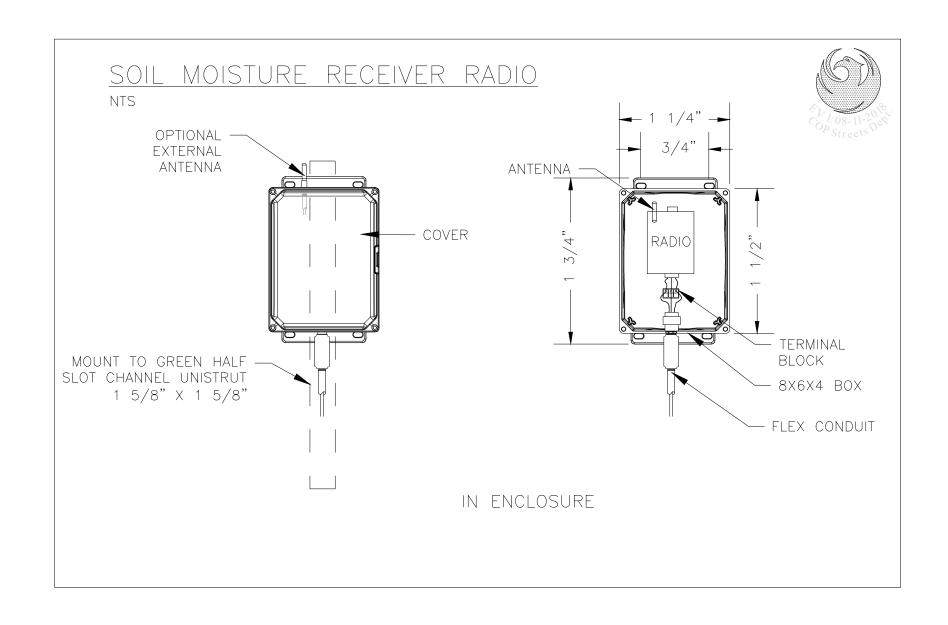
IRRIGATION SLEEVE UNDER PAVEMENT





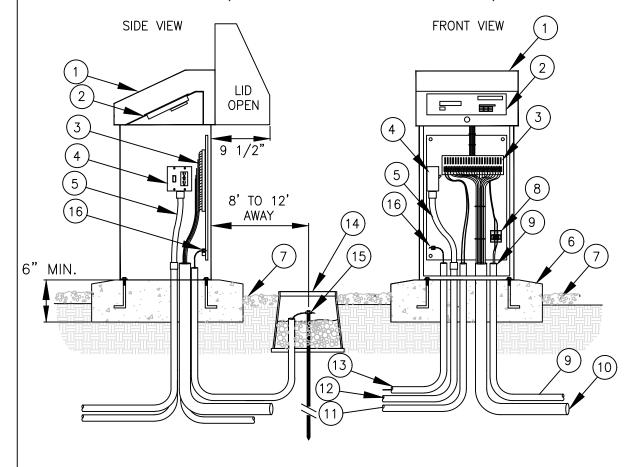
(TORO S700C, HUNTER IS-20&IS-25 STAINLESS STEEL)





STAINLESS STEEL CONTROLLER CABINET

NTS FOR RAINMASTER EAGLE PLUS-I TWO-WIRE CONTROLLER: SA6-RM2-TW (RAIN MASTER I-CENTRAL CONTROLLER)



- 1. STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE (UL LISTED).
- 2. SATELLITE ASSEMBLY (Optional)
 ASSEMBLED IN ENCLOSURE
- 3. TERMINAL STRIP FOR VALVE WIRES.
- 4. POWER SWITCH / GFCI RECEPTACLE.
- 5. ELECTRICAL FLEX CONDUIT FOR POWER.
- 6. 6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS.
- 7. FINISHED GRADE.
- 8. FLOW SENSOR TERMINAL BOARD.
- 9. CONDUIT AND SWEEP ELL WITH FLOW SENSOR CABLE.

- 10. CONDUIT AND SWEEP ELL FOR LEAD WIRES.
- 11. CONDUIT AND SWEEP ELL FOR MASTER VALVE WIRES.
- 12. CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.
- 13. CONDUIT AND SWEEP ELL FOR GROUND WIRE.
- 14.10" ROUND VALVE BOX AROUND GROUND ROD. FILL WITH 3/4" CRUSHED ROCK.
- 15. 5/8" X 8' GROUND ROD WITH #6
 GROUND WIRE AND CLAMP. LOCATE
 8'-12' FROM ENCLOSURE.
- 16. #6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.

NOTES:

- 1. CONTRACTOR TO CONFIRM WIRING CONFIGURATION PER THIS PROJECT AND PROVIDE ADEQUATE CONDUIT FOR WIRES TO MOVE FREELY WITHIN CONDUIT FOR COMPLETE AND CLEAN INSTALLATION INTO CABINET.
- 2. BUNDLE WIRE WITH PLASTIC WIRE TIE TO PROVIDE NEAT AND ORGANIZED INSTALL CABINET DIMENSIONS: 16"W X 38"H X 15.5"D
- 3. CONTRACTOR TO COORDINATE AND ASSURE POWER TO CONTROLLER LOCATON AS SHOWN ON DRAWINGS.

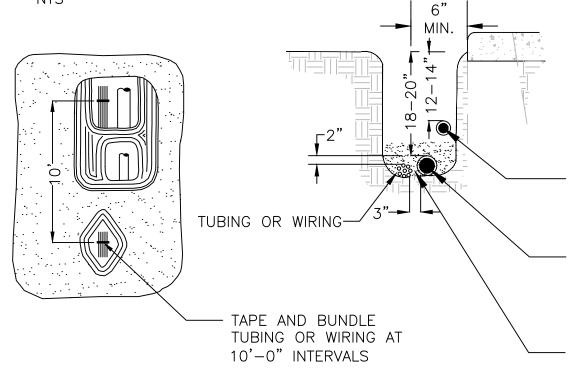
ALSO INCLUDE:

- 1. HAND HELD REMOTES QTY PER BID MIN 1 PER SPECIFICATION
- 2. APPROPRIATE AIR CARD & COMMUNICATIONS





NTS



SECTION "A"

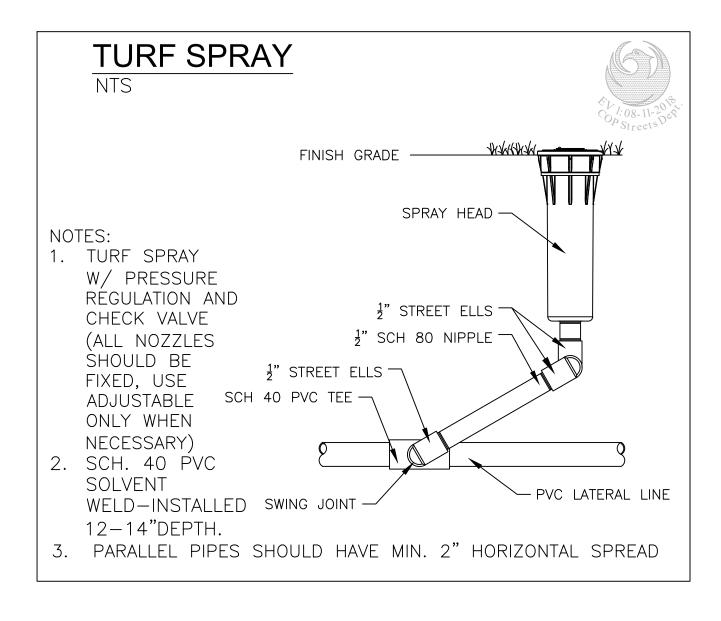
ALL PIPE INSTALLATION. TRENCH
EXCAVATION, BEDDING, BACK FILL
AND COMPACTION SHALL
CONFORM TO COP SUPPLEMENT
SEC. 440

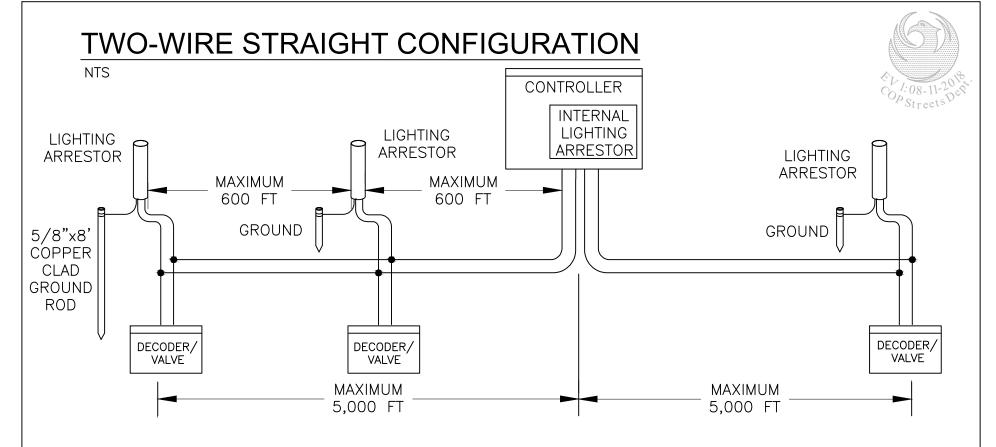
LATERAL LINE — SCH. 40 PVC SOLVENT WELD—INSTALLED 12—14" DEPTH. PARALLEL PIPES SHALL HAVE MIN. 2" HORIZONTAL SPREAD

MAINLINE $-\frac{3}{4}$ "-2.5" SCH. 40 PVC SOLVENT WELD 18-20" DEPTH. 3" AND LARGER CLASS 200 "O"-RING PIPE. PARALLEL PIPES SHOULD HAVE A MIN. OF 2" HORIZONTAL SEPARATION

ADD 2" LAYER OF FINELY GRADED NATIVE SOIL OR BEDDING SAND AND BACK FILL

- 1. TOP OF WIRE BUNDLE SHOULD BE 2" BELOW TOP OF PIPE.
- 2. HORIZONTAL DISTANCE BETWEEN ALL PIPE MIN. 2"
- 3. ALL PIPING 3" AND LARGER SHALL HAVE 24"-26" OF COVER

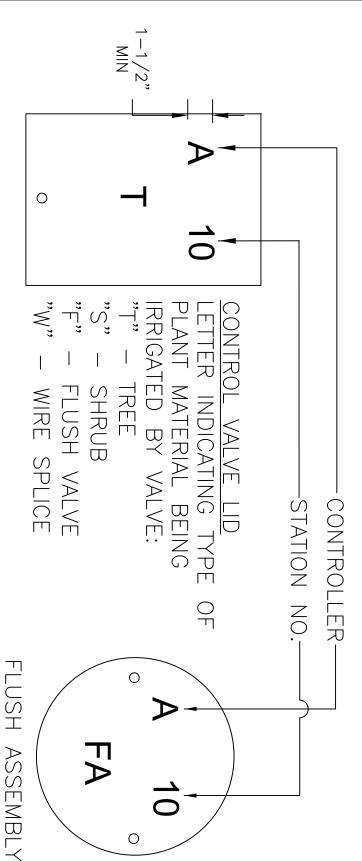




- 1. NO MORE THAN ONE DECODER PER VAVLE.
- 2. EACH DECODER HAS A UNIQUE ADDRESS.
- 3. DECODERS WILL AUTOMATICALLY SHUT-OFF IF CONNECTION IS LOST WITH THE INTERFACE MODULE.
- 4. AN OPEN CIRCUIT OR SHORT WILL SHUT OFF THE VALVE.
- 5. ELECTRICAL CONNECTION REQUIREMENTS: WATER TIGHT CONNECTORS.

STRAIGHT LINE	CONFIGURATION
WIRE GAUGE	TOTAL WIRE LENGTH
TW-CAB-14	5,000'
MAX 600' BETWEEN	LIGHTING ARRESTORS

VALVE BOX MARKING





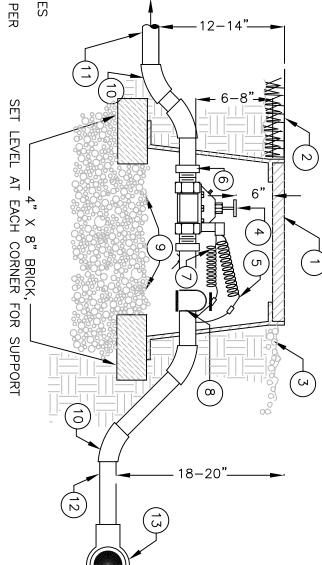
REMOTE CONTROL VALVE



MAINLINES 2 2" AND SMALLER

- LARGE VALVE BOX WITH LOCKING COVER
- ? ? FOR TURF SET BOX 1-1/2" ABOVE FINISH GRADE AFTER COMPACTION
- FOR D.G. SET BOX 1" ABOVE FINISH GRADE AFTER COMPACTION REMOTE CONTROL VALVE
- ы 4.0.0
 - NO. 14 CONTROL WIRE (ORANGE)
- PVC SCH 80 EXTRUDED T.O.E NIPPLE BRASS OR PLASTIC PER VALVE MATERIAL (4" LENGTH BEFORE AND AFTER VALVE)
- .7 NO. 12 COMMON WIRE TO OTHER VALVES SAME CONTROLLER (WHITE) 9
- 9 00 LINE SIZE BRASS SHUT OFF VALVE
- SUPPORT 6" LAYER 3/8" PEA GRAVEL. MATERIAL EXTENDED BEYOND BOX FOR MIN 1 CU. Ξ
- PVC SCH. 80 45° ELL
- LATERAL LINE TO IRRIGATION SYSTEM TO MAINLINE
- 12. LATERAL LINE TO MAINLINE 13. PVC SCH 80 MAINLINE FITTING

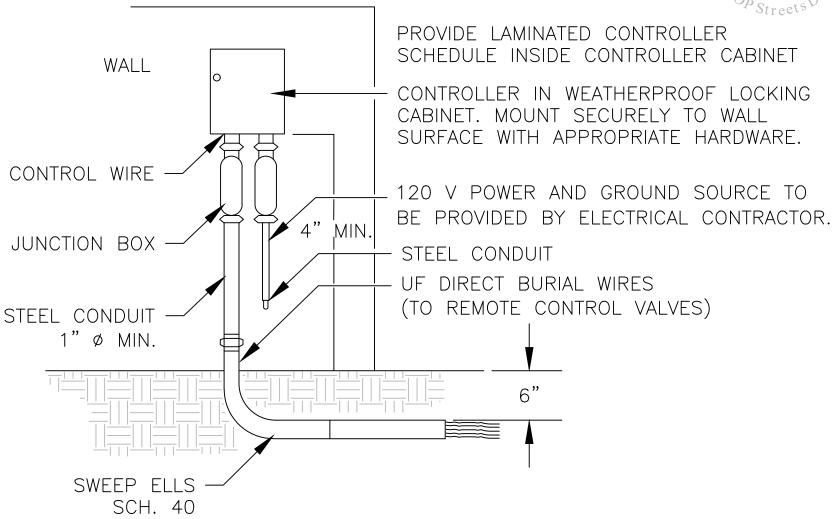
- PLACE VALVE BOX ON BRICK SUPPORTS
- JUMBO VALVE BOX MAY BE USED TO COMBINE EQUIPMENT IN LIEU OF TWO LARGE VALVE BOXES
- CHRISTY TAG TO BE ATTACHED TO VALVE
- DIAGRAM PROVIDE STATION NUMBER ON VALVE BOX LID PER



WALL MOUNT CONTROLLER

NTS





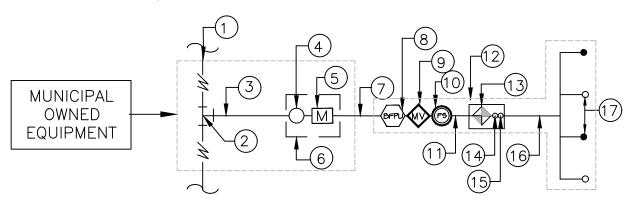
NOTE:

ALL WIRING TO BE INSTALLED AS PER LOCAL CODE: SEE MANUAL FOR MOUNTING INSTRUCTIONS

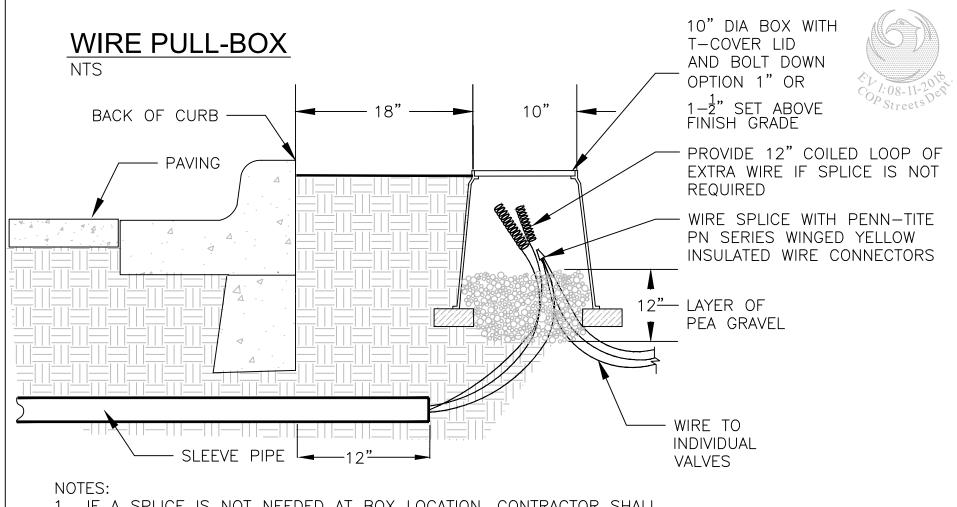
WATER SYSTEM SCHEMATIC

NTS

- 1. WATER SUPPLY LINE
- 2. WATER TAP
- 3. WATER MAIN
- 4. CURB STOP
- 5. WATER METER
- 6. CONCRETE WATER METER VAULT PER MAG SPECIFICATIONS TYPE "K" COPPER
- 7. PIPE TO BACKFLOW PREVENTION UNIT (B.F.P.U.)
- 8. BACKFLOW PREVENTION UNIT
- 9. MASTER VALVE
- 10. FLOW SENSOR
- 11. PVC MAINLINE PIPE
- 12. VALVE BOX PER SPECIFICATIONS
- 13. REMOTE CONTROL VALVE
- 14. PRESSURE REGULATOR
- 15. WYE STRAINER
- 16. PVC LATERAL
- 17. SPRINKLER, BUBBLER OR EMITTER OUTLET PER PLAN



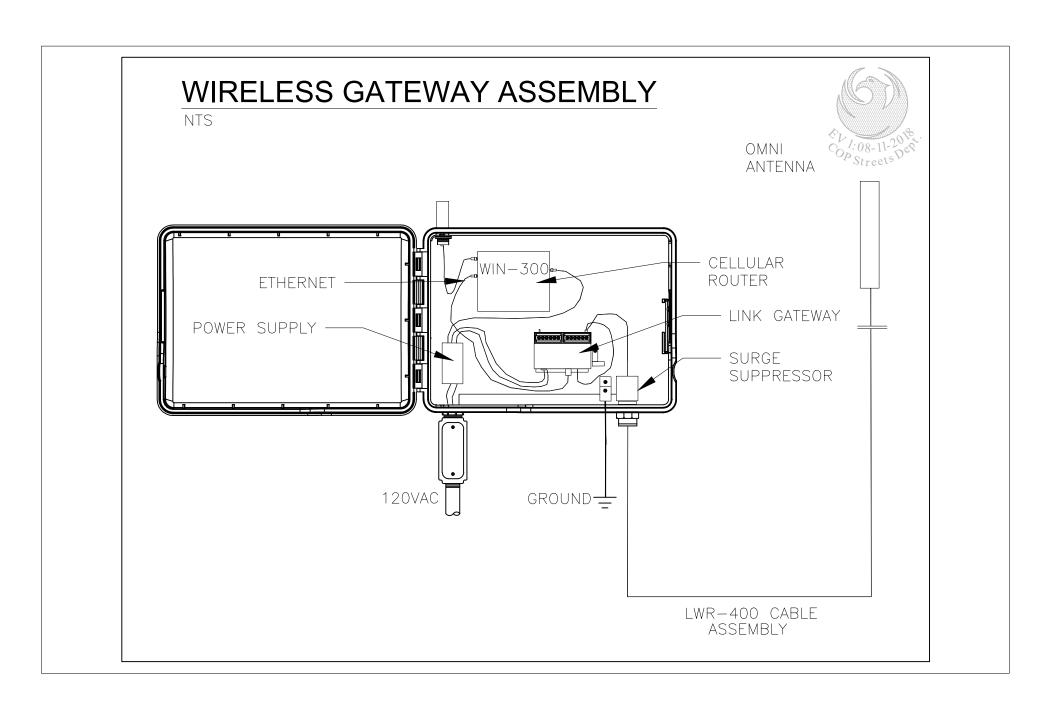


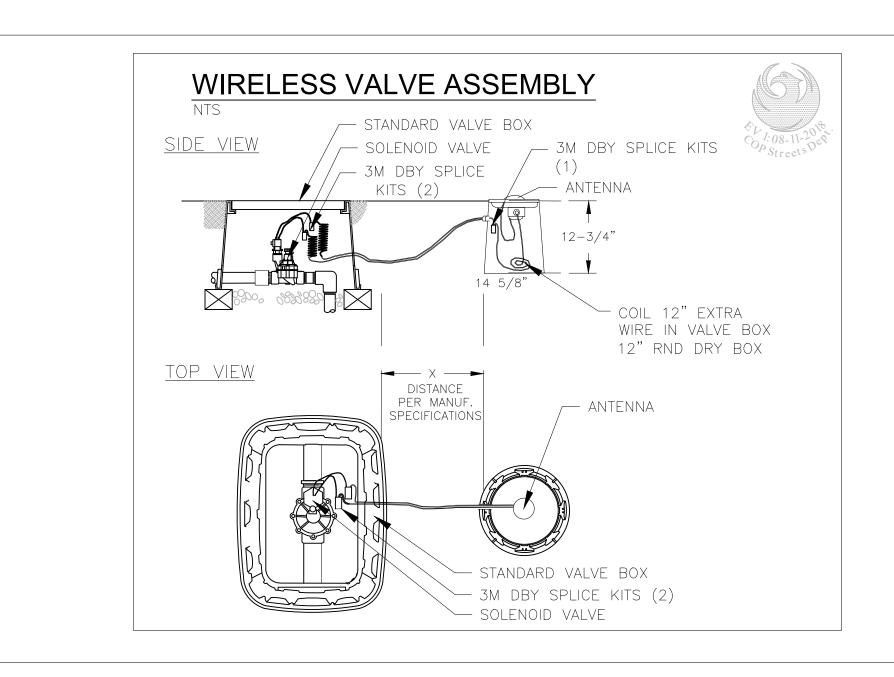


1. IF A SPLICE IS NOT NEEDED AT BOX LOCATION, CONTRACTOR SHALL PROVIDE A 12" COILED LOOP OF EXTRA WIRE IN BOX FOR FUTURE USE.

ALTERNATIVE METHODS FOR MARKING SLEEVE LOCATION:

- 1. STAMP BACK OF CURB WITH AN 'S' FOR NEW CONCRETE
- 2. RETROFIT PROJECT WILL REQUIRE 'S' TO BE ETCHED BACK OF CURB

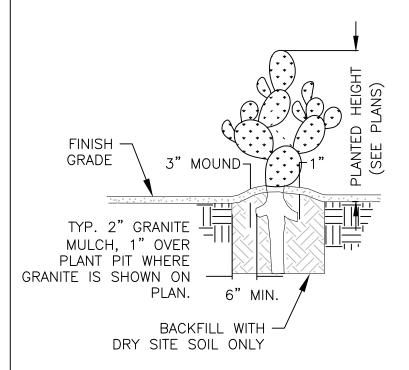




CACTUS PLANTING

NTS

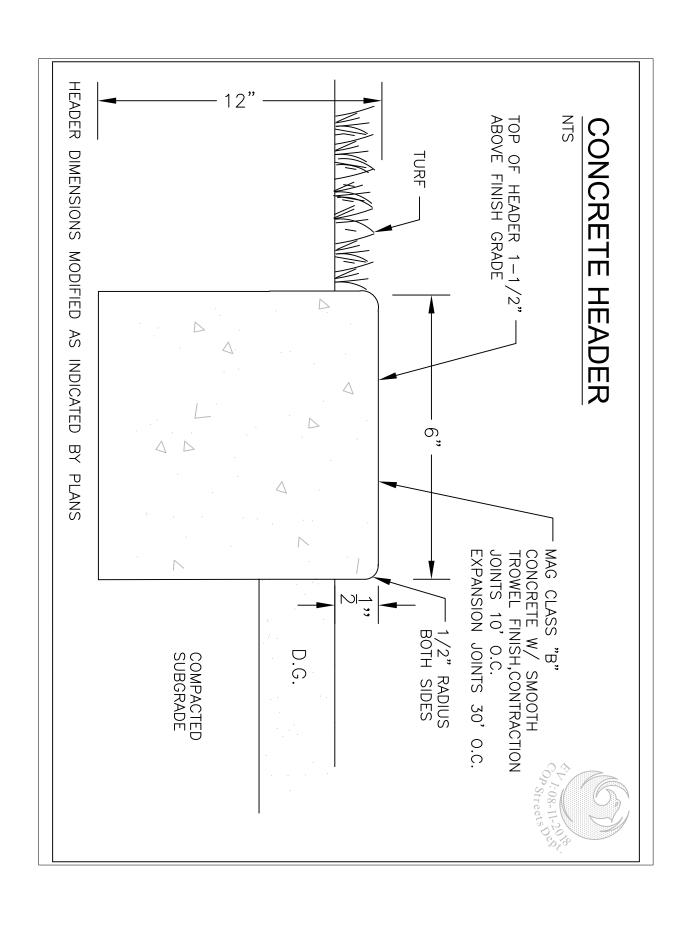




- 1. ROOT PRUNE ALL SHREDDED OR DAMAGED ROOTS.
- 2. ENSURE ALL WOUNDS TO THE ROOT SYSTEM ARE CLEAN CUT BEFORE PLANTING. APPLY DUSTING SULFUR TO ALL AREAS BELOW GRADE.
- 3. PLANT PIT SHALL BE 3 TIMES THE DIAMETER OF ROOTS AND NO DEEPER THAN THE EXTENSION OF THE ROOTS

 BACKFILL PIT WITH 6" LAYERS OF RODDED,

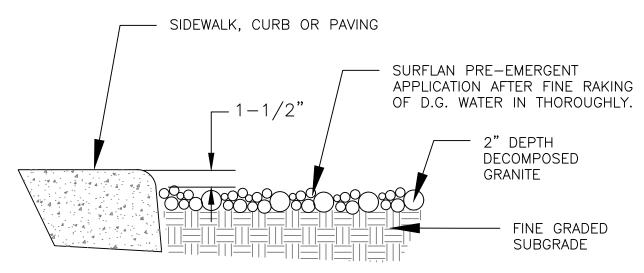
 COMPACTED 1/3 GOLF SAND AND 2/3 DRY SITE SOIL MIX.
- 4. USE 3"-4" ROCKS/RIP RAP TO ANCHOR ROOTS.
- 5. PLANTING DEPTH SHALL BE THE DEPTH AT WHICH PLANT WAS GROWN OR DEEPER BUT THE TAPERING OF THE ROOT COLLAR MUST BE VISIBLE.
- 6. ENSURE SURFACE WATER CAN NOT STAND AGAINST THE ROOT COLLAR. SLOPE GRADE AWAY FROM BASE OF CACTUS.
- 7. ALL CACTUS PLACEMENT SHALL MATCH ORIGINAL ORIENTATION W/ORIGINAL NORTH SIDE FACING NORTH.
- 8. DO NOT WATER FOR THREE WEEKS FOLLOWING PLANTING.
- 9. WATER WEEKLY THROUGHOUT THE SUMMER. MAINTAIN ORIGINAL GROWING ORIENTATION.



DECOMPOSED GRANITE

NTS



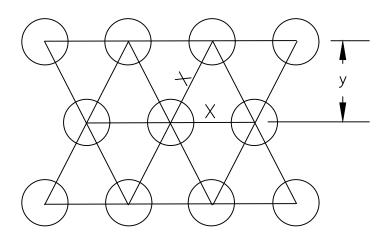


- 1. DECOMPOSED GRANITE FINISH GRADE TO BE RAKED SMOOTH. DG FINISH GRADE SHALL BE 1-1/2" BELOW ALL ADJACENT PAVING/CURBS.
- 2. SUBMIT CERTIFIED PESTICIDE APPLICATOR'S LICENSE PRIOR TO CONSTRUCTION. SUBMIT PRODUCT LABEL FOR APPROVAL.
- 3. APPLY PRE-EMERGENT HERBICIDE PER MANUFACTURER INSTRUCTIONS. TWO (2) APPLICATIONS ARE REQUIRED. ONE BEFORE PLACEMENT OF D.G. (AFTER SUBGRADE HAS BEEN APPROVED) AND ONE AFTER SPREADING D.G.. CERTIFIED PESTICIDE APPLICATION SHALL CONDUCT APPLICATION. LICENSE AND NOTIFICATION OF APPLICATION SHALL BE PROVIDED MIN. 48 HOURS IN ADVANCE OF APPLICATION. WATER IN EACH APPLICATION PER MANUFACTURER'S INSTRUCTIONS.
- 4. D.G. SIZE/STYLE AS SPECIFIED ON PLANT LEGEND.

GROUNDCOVERS

 \overline{NTS}



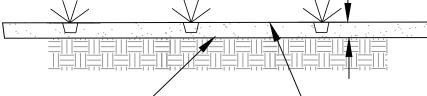


ALL GROUNDCOVERS TO BE PLANTED ON CENTER (SEE PLANT LEGEND) IN A TRIANGULAR PATTERN.

X = O.C. DIMENSION AS NOTED ON PLAN

Y = 0.86 OF DIMENSION "X"

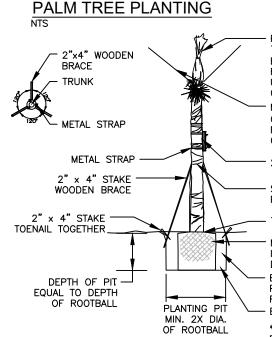
- PREPARE SOIL PER
SPECIFICATIONS AND ROTOTILL
TO A DEPTH OF 6" PRIOR
TO ANY SPRINKLER WORK.



BACKFILL WITH NATIVE SOIL.

APPLY FERTILIZER TO
SURFACE AWAY FROM TRUNK
PER SPECIFICATIONS.

MULCH SOIL TO A DEPTH OF 2", 1' IN DIAMETER. KEEP MULCH 2" AWAY FROM PLANT BASE.



PALMS TO BE TIED WITH HEMP TYPE ROPE PRIOR TO TRANSPLANTING. PALM FRONDS TO REMAIN TIED UNTIL HEMP BREAKS OR UNTIL NEW SPEAR EMERGES FROM CENTER. OWNER'S REP. TO APPROVE PRIOR TO TIE REMOVAL IF HEMP ROPE WAS NOT USED. ARRANGE TO UNTIE AFTER SPEAR HAS EMERGED FROM CENTER.

MAINTAIN PALMS SO THAT BASE OF FRONDS OCCUR FROM THE '10 O'CLOCK THRU THE 2 O'CLOCK POSITION. DO NOT OVER TRIM PALM FRONDS DURING MAINTENANCE OR AFTER PROJECT IS ACCEPTED BY OWNER.

2-2"X4" @ 12" LONG NAIL 2"X4" TP STEPPED 2"X4"

SKIN TRUNK CLEAN ON WASHINGTONIA ROBUSTA. DIAMOND CUT DATE PALMS OR AS OTHERWISE SPECIFED BY PLANT LEGEND.

TOP OF ROOT BALL TO BE AT TOP OF SUBGRADE, JUST BELOW D.G.

MAINTAIN MIN 4" - 6" SOIL LIP BEYOND TRUNK ON ALL SIDES. IRRIGATION SHALL BE PLACED DIRECTLY OVER THIS LIP TO EVENLY DISTRIBUTE WATER TO ROOTBALL. DO NOT OVER WATER.

BASE MERISTEM TO BE PRESENT IN ALL IMPORTED PALMS PROTECT DURING PLANTING—DO NOT CUT ROOTBALL.

BACKFILL TO BE CLEAN SAND.

* SUB GRADE TO BE 3" BELOW TOP OF WALK BEFORE INSTALLATION OF DECOMPOSED GRANITE. PLACE TOP OF ROOTBALL AT SUB GRADE LEVEL

NOTES:

TRANSPORTING AND SETTING:

- 4" MIN WIDTH NYLON STRAPS TO BE USED FOR TRANSPORTING, MOVING AND SETTING PALMS. IF IMPROPER STRAPS ARE USED, CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE TREE IF SCARRING ON TRUNK OCCURS.
- PLACE STRAPS AT MINIMUM TWO POINTS ALONG TRUNK TO EVENLY SUPPORT WEIGHT AND PREVENT TRUNK FROM BENDING OR BOWING DURING SETTING AND TRANSPORT IF TRUNKS ARE DEFORMED DUE TO IMBALANCED SUPPORT, CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE TREES.
- PALMS SHALL BE GENTLY SET INTO PLANTING PIT AND NOT BE DROPPED AT ANY TIME DURING THE TRANSPORTING AND SETTING PROCESS. IF PALMS ARE DROPPED THEY WILL BE REJECTED AND REPLACED BY CONTRACTOR.

PLANTING:

- IF MATCHED TRUNK HEIGHTS ARE NEEDED, PURCHASE MATCHING TRUNK HEIGHTS. DO NOT OVER BURY PALMS TO ACHIEVE MATCHING TRUNK HEIGHTS.
- 2. PROTECT APICAL AND BASE MERISTEM THROUGHOUT TRANSPORTING AND PLANTING PROCESS.
- DO NOT BURY AERIAL ROOT ZONE.

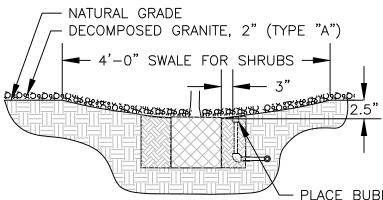
IRRIGATION

- PLACE IRRIGATION DIRECTLY OVER ROOT BALL SOIL, EVENLY SPACE AROUND BASE.
- WATER SO THAT 80% OF FIELD CAPACITY IS MAINTAINED. ADJUST FOR SOIL TYPE.
- 3. ADJUST WATERING FOR SEASONAL NEEDS.
- 4. DO NOT USE VERTICAL PVC AND PEA GRAVEL.

SHRUB PLANTING

NTS



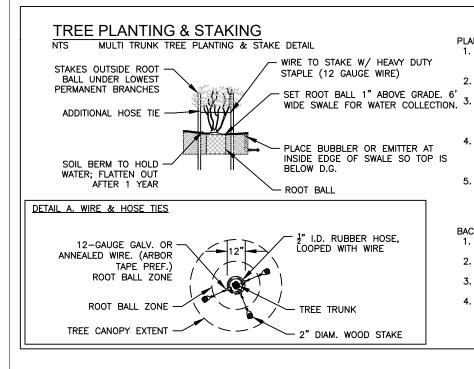


PLACE BUBBLE OR EMITTER SO TOP IS JUST BELOW D.G. FINISH GRADE

NOTES:

- 1. PLANT PITS SHALL NOT BE AUGER DUG. SIDES OF PIT SHALL BE RAKED TO LOOSEN PRIOR TO SETTING TREE IN PITS.
- 2. GENTLY LOOSEN ROOTS AROUND EXTERIOR OF ROOTBALL.
- 3. DO NOT PLANT ROOT BOUND PLANTS. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY TO VERIFY CONDITION OF PLANT IF ANY QUESTION.
- 4. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
- 5. DO NOT PRUNE NEW PLANTS WITHOUT LANDSCAPE ARCHITECT APPROVAL/DIRECTION.

PLANTING PIT TO BE 3X THE WIDTH OF THE ROOT BALL. CENTER SHRUB IN PLANTING PIT. DO NOT OVER—EXCAVATE FOR DEPTH OF PLANTING PIT TO AVOID SETTLING. FERTILIZER: 16:20:0 AMMONIUM PHOSPHATE FOR NON DESERT PLANTS. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.



PLANTING NOTES:

- SIDES OF PLANTING PITS ARE TO BE LOOSENED OR RAKED BEFORE SETTING TREE IN PIT.
- 2. EXCAVATE DEPTH OF PLANTING PIT TO THE SAME DEPTH AS THE ROOTBALL.
- 3. THE WIDTH OF THE PLANTING PIT SHALL BE 2 X THE WIDTH OF THE ROOTBALL GENTLY LOOSEN ROOTS AROUND EXTERIOR OF ROOTBALL. CENTER TREE IN PLANTING PIT.
- INSPECT ROOT BALLS AT POINT OF PURCHASE TO AVOID PURCHASE OF ROOT BOUND MATERIALS. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
- NEW TREES SHALL NOT BE PRUNED UNLESS DIRECTED BY OWNER. FORM SWALE AROUND EACH TREE AS SHOWN FOR WATER COLLECTION. REMOVE ALL NURSERY STAKES.

BACKFILL NOTES:

- 1. PROVIDE MULCH AMENDMENT WITH BACKFILL FOR NON-DESERT TREES.
- BACKFILL MIX SHALL CONSIST OF 3 PARTS NATIVE SOIL TO 1 PART MULCH.
- PROVIDE 1 CUP GYPSUM IN BOTTOM OF PLANTING PIT.
- 4. INCLUDE 16:20:0 AMMONIUM PHOSPHATE FERTILIZER IN PLANTING PIT FOR NON-DESERT TREES. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.

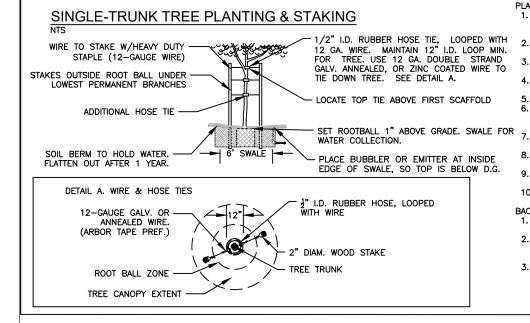
STAKING NOTES:

- USE 2- 2" DIA. LODGE POLE STAKES-DOUG FIR, OR APPROVED HARDWOOD.
- 2. DRIVE STAKE MIN 12" INTO FIRM
- UNDISTURBED SOIL BELOW THE EXCAVATED DEPTH.

 3. PLACE STAKES OUTSIDE THE ROOTBALL.
- HEIGHT OF STAKE MAY VARY DEPENDING ON NEED FOR SUPPORT.
- 5. PLACE THE TOP TIE FOR MAXIMUM SUPPORT. THE BOTTOM TIE SHOULD BE APPROXIMATELY ½ WAY BETWEEN THE TOP TIE AND GROUND.
- ALWAYS PLACE STAKE TO PREVENT DAMAGE TO TREE AND CAMBIUM.

MISC. NOTES:

- REMOVE ALL PLASTIC TREE TIE TAPE, BAMBOO NURSERY STAKE, WIRE TIES, AND LABELS FROM TREES AFTER THEY HAVE BEEN APPROVED.
- BACKFILL ANY HOLES LEFT IN ROOTBALL LEFT FROM NURSERY STAKES. BACKFILL SHALL BE CLEAN SOIL, NOT D.G.
- 3. SWALE SHALL BE A SMOOTH TRANSITION-NO ABRUPT GRADE CHANGES
- SWALE SHALL BE WATER TESTED FOR WATER HOLDING CAPACITY PRIOR TO PLACING D.G.
- 5. PROVIDE ADDITIONAL WIRE HOSE TIE WHEN THE TREE IS NOT RIGIDLY SUPPORTED BY THE TWO REQUIRED SUPPORTS.
- 2-3" MULCH TOP LAYER, NOT AROUND BASE. 1" D.G. TOP LAYER ALSO SUITABLE.



PLANTING NOTES:

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- THE WIDTH OF THE PLANTING PIT SHALL BE 2X THE WIDTH OF THE ROOTBALL
- GENTLY LOOSEN ROOTS AROUND EXTERIOR OF ROOTBALL.
- CENTER TREE IN PLANTING PIT.
- INSPECT ROOT BALLS AT POINT OF PURCHASE TO AVOID PURCHASE OF ROOT BOUND MATERIALS
- REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
- NEW TREES SHALL NOT BE PRUNED UNLESS MISC. NOTES: DIRECTED BY OWNER.
- FORM SWALE AROUND EACH TREE AS SHOWN FOR WATER COLLECTION.
- 10. REMOVE ALL NURSERY STAKES.

BACKFILL NOTES:

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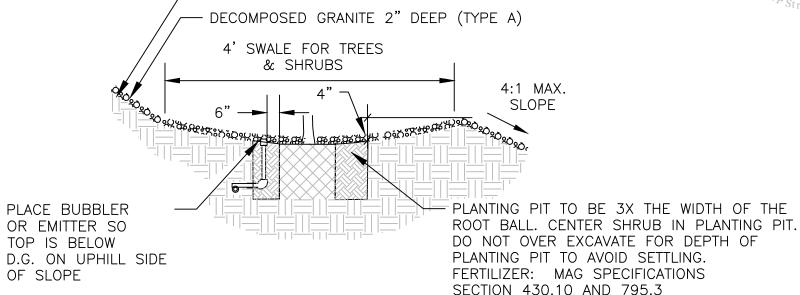
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- DRIVE STAKE MIN 12" INTO FIRM UNDISTURBED SOIL BELOW THE EXCAVATED DEPTH.
- 3. PLACE STAKES OUTSIDE THE ROOTBALL.
- HEIGHT OF STAKE MAY VARY DEPENDING ON NEED FOR SUPPORT.
- PLACE THE TOP TIE FOR MAXIMUM SUPPORT. THE BOTTOM TIE SHOULD BE APPROXIMATELY HALFWAY BETWEEN THE TOP TIE AND GROUND.
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PLANTING ON SLOPE

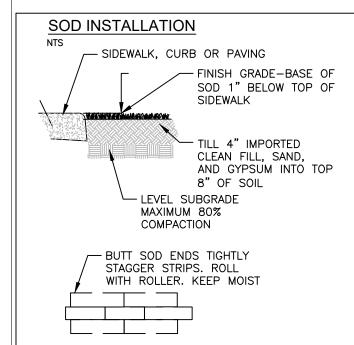




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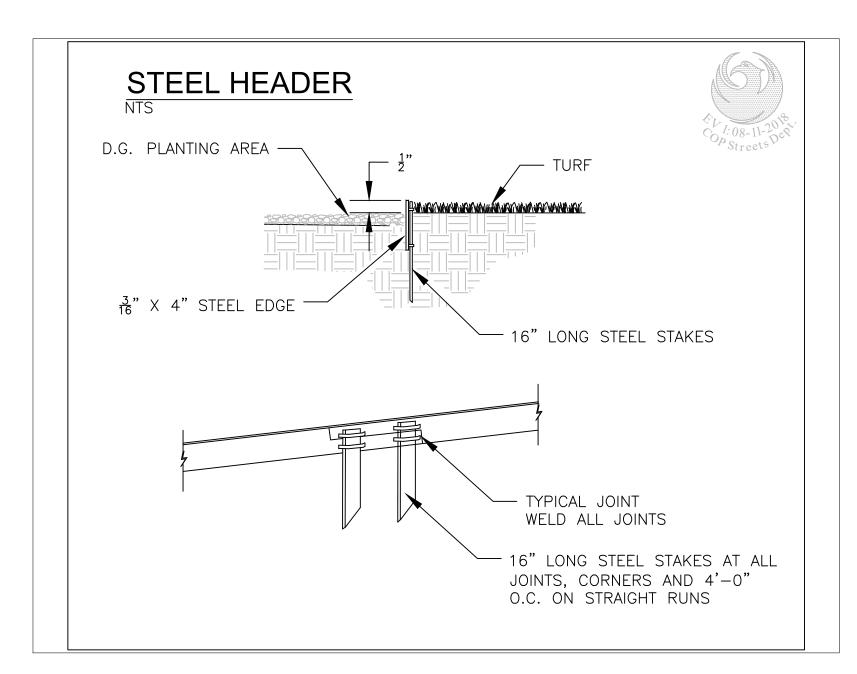
NATURAL GRADE



- ROUGH GRADE, REMOVE ALL DEBRIS AND UNDESIRED VEGETATION CHEMICALLY AND PHYSICALLY USING APPROVED CHEMICALS AND LICENSED APPLICATORS.
- 2. PROVIDE SOILS TEST FROM CERTIFIED LAB TO INCLUDE PH, AND ELEMENTS IN SOIL. FURNISH TEST RESULTS TO OWNER REPRESENTATIVE.
- 3. PROVIDE SOIL ADDITIVES AS RECOMMENDED BY SOILS TEST, INCLUDE IN SUBMITTAL REVIEW FOR PROJECT.
- 4. APPLY GYPSUM UNIFORMLY OVER IMPORTED TOP SOIL AT A RATE OF 10 POUNDS PER 100 SQUARE FT OF TURF AREA.
- 5. ROTOTILL GYPSUM, FERTILIZER, AND CLEAN TOPSOIL MIX TO MINIMUM 6" DEPTH INTO EXISTING SOIL. LEVEL GRADE, RAKE SMOOTH, REMOVE ROCK OR OTHER DEBRIS PARTICLES LARGER THAN 1½" FROM SITE. COMPACT AND TO 80%.



- 6. GRADE TO BE APPROVED BY CLIENT REPRESENTATIVE.
- THOROUGHLY WATER THE PLANTING AREA WITHIN 2 HOURS OF LAYING SOD. LAY SOD IN MORNING HOURS AND WITHIN 1 DAY OF ARRIVAL ON SITE. KEEP STACKED SOIL MOIST.
- 8. LAY SOD END TO END AND STAGGERED BETWEEN ROWS, WATER THOROUGHLY AND ROLL WITH WATER FILLED ROLLER.
- WATER SOD TO MAINTAIN MOISTURE AND PROMOTE ROOTING.
- REPLACE SOD THAT HAS DRIED OUT, DISCOLORED, OR DIED, IMMEDIATELY. MAINTAIN MOISTURE ON ALL SOD AND ADJUST FOR SEASON.
- 11. REFER TO RETENTION BASIN NOTES IF INSTALLING LANDSCAPING OR SOD IN RETENTION BASINS



SWALE - BACK OF SIDEWALK

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FINE GRADE TO CREATE RETENTION SWALE. SWALE TO BE APPROVED PRIOR TO PLANTING AND/OR PLACING TURF OR D.G.

