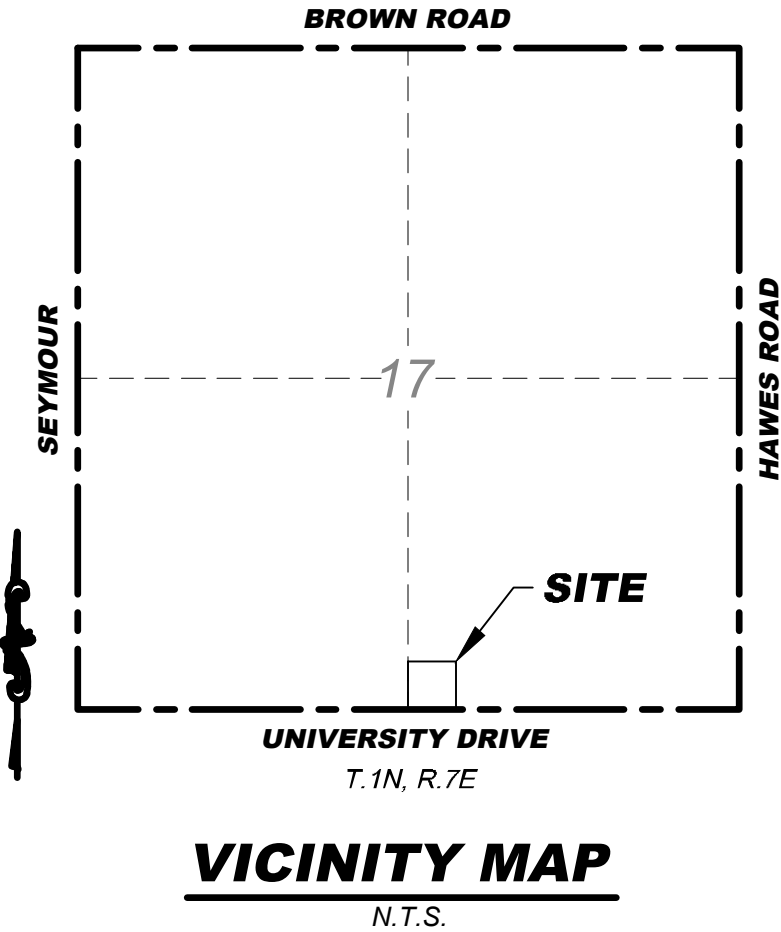


LANDSCAPE PLAN FOR
DCS UNIVERSITY DRIVE
8008 EAST UNIVERSITY DRIVE MESA, ARIZONA
A PORTION SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 1 NORTH, RANGE 7 EAST OF THE
GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



LANDSCAPE CALCULATIONS

PERIMETER LANDSCAPING

UNIVERSITY DR. RIGHT-OF-WAY (600 L.F.)
TREES REQUIRED: 24 (4 PER 100 L.F.)
TREES PROVIDED: 24
SHRUBS REQUIRED: 144 (24 PER 100 L.F.)
SHRUBS PROVIDED: 158

N. 80th ST. RIGHT-OF-WAY (190 L.F.)
TREES REQUIRED: 8 (4 PER 100 L.F.)
TREES PROVIDED: 8
SHRUBS REQUIRED: 46 (24 PER 100 L.F.)
SHRUBS PROVIDED: 46

LANDSCAPE YARDS

NORTH (620 L.F.)
TREES REQUIRED: 31 (5 PER 100 L.F.)
TREES PROVIDED: 31

EAST (140 L.F.)
TREES REQUIRED: 4 (3 PER 100 L.F.)
TREES PROVIDED: 4

INTERIOR PARKING LOT

PARKING ISLANDS
(NOT UNDER SHADE CANOPY): 16

TREES REQUIRED: 16 (1 PER ISLAND)
TREES PROVIDED: 28 (36" BOX)

SHRUBS REQUIRED: 48 (3 PER ISLAND)
SHRUBS PROVIDED: 53 (5 GAL.), 34 (1 GAL.)

FOUNDATION BASE

TOTAL EXTERIOR WALL LENGTH: 646 LF

TREES REQUIRED: 13 (1 PER 50 LF WALL LENGTH)
TREES PROVIDED
WITHIN 30' OF BLDG.: 7 (36" BOX), 10 (24" BOX)

MINIMUM PLANT SIZE CALCULATIONS

PER SECTION 11-33-3(A) OF THE MZO, A MINIMUM OF 25 PERCENT OF THE TOTAL REQUIRED TREES SHALL BE 36-INCH OR LARGER BOX TREES AND A MINIMUM OF 50 PERCENT OF THE TOTAL REQUIRED TREES SHALL BE 24-INCH BOX TREES. A MINIMUM OF 50 PERCENT OF THE TOTAL REQUIRED SHRUBS SHALL BE 5-GALLON SIZE OR LARGER.

36" BOX TREES PROVIDED = 36 (35% OF TOTAL)
24" BOX TREES PROVIDED = 66 (65% OF TOTAL)

5 GAL. SHRUBS PROVIDED = 402 (83% OF TOTAL)
1 GAL. SHRUBS PROVIDED = 83 (17% OF TOTAL)

TREE COVERAGE CALCULATIONS

PER CITY OF MESA 'TREES ARE COOL' INITIATIVE, THE FOLLOWING INFORMATION IS PROVIDED FOR REFERENCE:

A. THE TOTAL MATURE TREE CANOPY COVERAGE IS:
68,120 SQ. FT.

B. PERCENTAGE OF SITE COVERED B Y MATURE TREE CANOPY IS:
52% (66,720 SQ. FT. / 131,324 SQ. FT.)

PROJECT INFORMATION

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF THE
CONSTRUCTION OF A NEW OFFICE
BUILDING WITH ASSOCIATED
IMPROVEMENTS.

ADDRESS:
8008 EAST UNIVERSITY DRIVE
MESA, ARIZONA 85207

APN: 218-08-100B AND 218-08-100A

ZONING: NC

TOTAL AREA: 131,322 SF (3.014 AC)
DISTURBED AREA: 111,775 SF (2.566 AC)

OWNER/DEVELOPER

INNOVATIVE DESIGN DEVELOPMENT GROUP, LLC
4400 EAST BROADWAY BOULEVARD, #300
TUSCON, ARIZONA 85711
PH: 520-647-3862
ATTN: DAVE WILLIAMSON

LANDSCAPE ARCHITECT

RICK
3945 E FORT LOWELL SUITE111
TUCSON, AZ 85712
PH: 520-795-1000
ATTN: MARK FELLINGER

CIVIL ENGINEER

RICK
2401 WEST PEORIA AVENUE, #130
PHOENIX, ARIZONA 85029
PH: 602-957-3350
ATTN: JEFF HUNT, PE

ARCHITECT

BRAMIC DESIGN GROUP PLLC
10820 EAST CALLE LINDA VISTA
TUSCON, ARIZONA 85748
PH: 520-401-9183
ATTN: GENE GOLDSTEIN

SHEET INDEX

1. LANDSCAPE COVER SHEET
2. LANDSCAPE PLAN
3. LANDSCAPE PLAN
4. LANDSCAPE DETAILS
5. IRRIGATION PLAN
6. IRRIGATION PLAN
7. IRRIGATION DETAILS

LANDSCAPE PLAN PREPARED FOR:
DCS UNIVERSITY DRIVE
8008 EAST UNIVERSITY DRIVE
MESA, ARIZONA 85207
CITY OF MESA
landscape cover sheet

520-795-1000
rickengineering.com

**RICK**

3945 E FORT LOWELL RD #111
TUCSON, AZ 85712

Professional Landscaper
Mark E. Fellingner
36734
10/22/25
Arizona, US

SEAL

3945 E FORT LOWELL RD #111
TUCSON, AZ 85712

520-795-1000
rickengineering.com

**RICK**

PROJECT NO: 7408
DATE: 10/2025

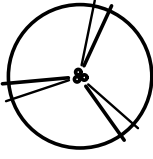
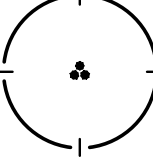
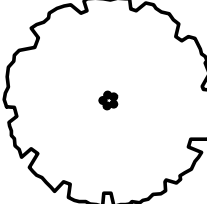
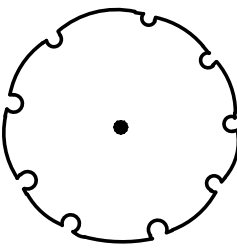
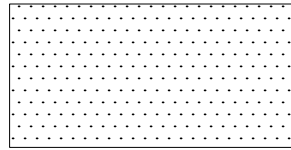
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CHECKED BY:

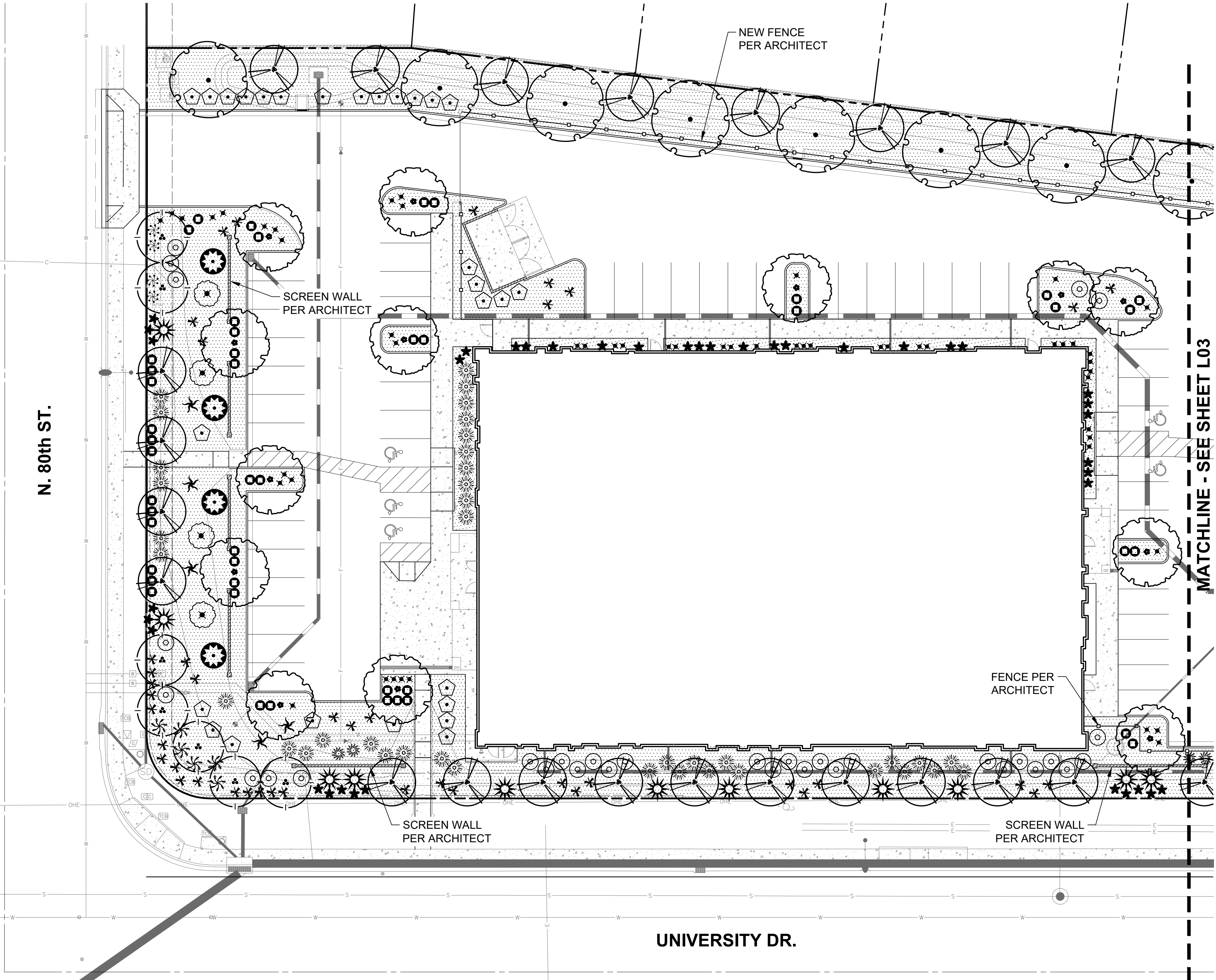
Contact Arizona 811 at least two full
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Call 811 or click Arizona811.com

DRAWING NO. **L01**
SHEET NO. **1** OF **7**

PLANT MATERIAL LEGEND

SYMBOL	BOTANICAL NAME COMMON NAME	QTY.	SIZE	H x W (CALIPER)
TREES				
	ACACIA ANEURA MULGA (MATURE CANOPY: 255 SQ. FT.)	34	24" BOX	6' x 2' (.75")
	CHILOPSIS LINEARIS DESERT WILLOW (MATURE CANOPY: 700 SQ. FT.)	15	24" BOX	5' x 3' (1")
	PARKINSONIA 'DESERT MUSEUM' DESERT MUSEUM PALO VERDE (MATURE CANOPY: 700 SQ. FT.)	37	36" BOX	8' x 5' (1.75")
	ULMUS PARVIFOLIA CHINESE ELM (MATURE CANOPY: 1,250 SQ. FT.)	19	24" BOX	7' x 3' (1")
SHRUBS AND ACCENTS				
	AGAVE VILMORINIANA OCTOPUS AGAVE	5	5 GAL.	
	ALOE x 'BLUE ELF' BLUE ELF ALOE	44	5 GAL.	
	CALLIANDRA CALIFORNICA BAJA FAIRY DUSTER	39	5 GAL.	
	CORDIA PARVIFOLIA LITTLE-LEAF CORDIA	4	5 GAL.	
	CHRYSACTINIA MEXICANA DAMIANITA	88	5 GAL.	
	HESPERALOE FUNIFERA GIANT HESPERALOE	19	5 GAL.	
	HESPERALOE PARVIFLORA RED YUCCA	51	5 GAL.	
	HYMENOXYS ACAULIS ANGELITA DAISY	82	1 GAL.	
	LEUCOPHYLLUM FRUTESCENS TEXAS RANGER	63	5 GAL.	
	LEUCOPHYLLUM 'GREENCLOUD' GREENCLOUD TEXAS RANGER	28	5 GAL.	
	MUHLENBERGIA 'AUTUMN GLOW' AUTUMN GLOW DEER GRASS	6	5 GAL.	
	MUHLENBERGIA 'REGAL MIST' REGAL MIST DEER GRASS	16	5 GAL.	
	PEDILANTHUS MACROCARPA SLIPPER PLANT	23	5 GAL.	
	TECOMA STANS MEXICAN YELLOW BELLS	4	5 GAL.	
INORGANIC GROUNDCOVER				
	A MIN. 2" DEPTH LAYER OF DECORATIVE ROCK SHALL BE PLACED IN ALL PLANTING AREAS. 3/4" SCREENED 'SUNSET GOLD', OR AS APPROVED BY OWNER.			



LANDSCAPE PLAN PREPARED FOR:
DCS UNIVERSITY DRIVE
8008 EAST UNIVERSITY DRIVE
MESA, ARIZONA 85207
CITY OF MESA

landscape plan

520-795-1000
rickengineering.com

RICK

3945 E FORT LOWELL RD #111
TUCSON, AZ 85712

landscaping

PROJECT NO: 7408
DATE: 10/2025

DRAWN/DESIGNED BY:
CHECKED BY:

MEF

SEAL
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
NO. 36734
MARK E. FELLINGER
10/22/25
ARIZONA, USA

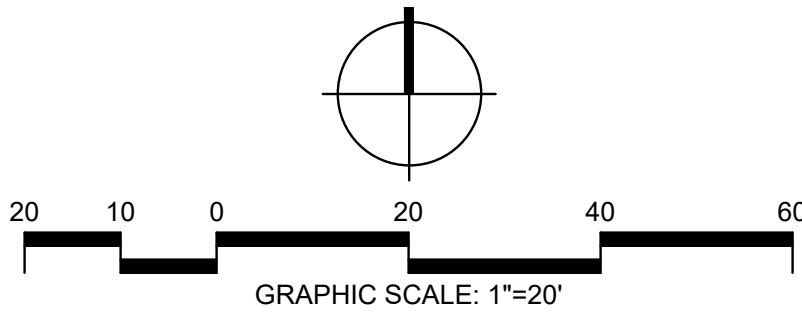
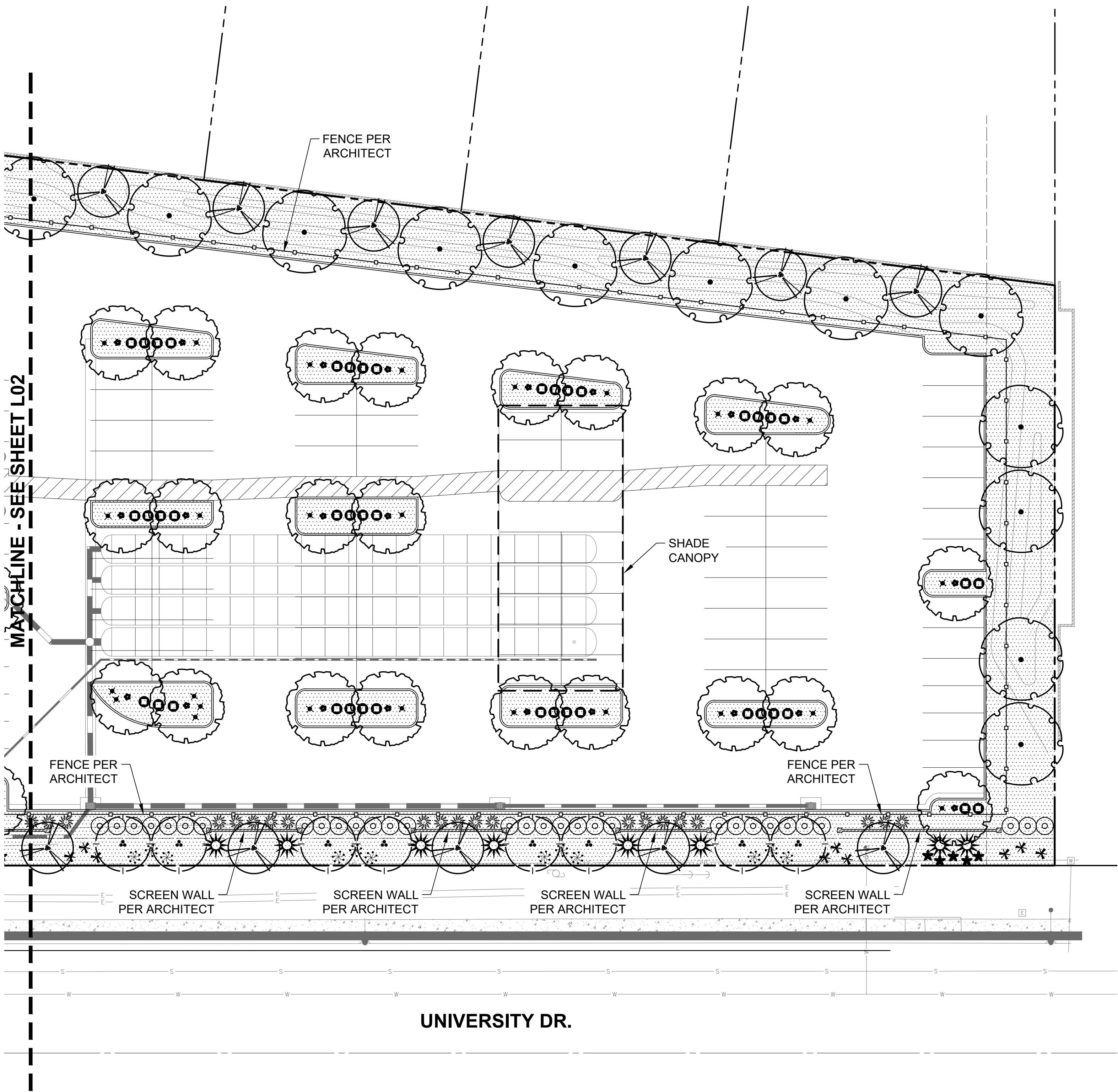
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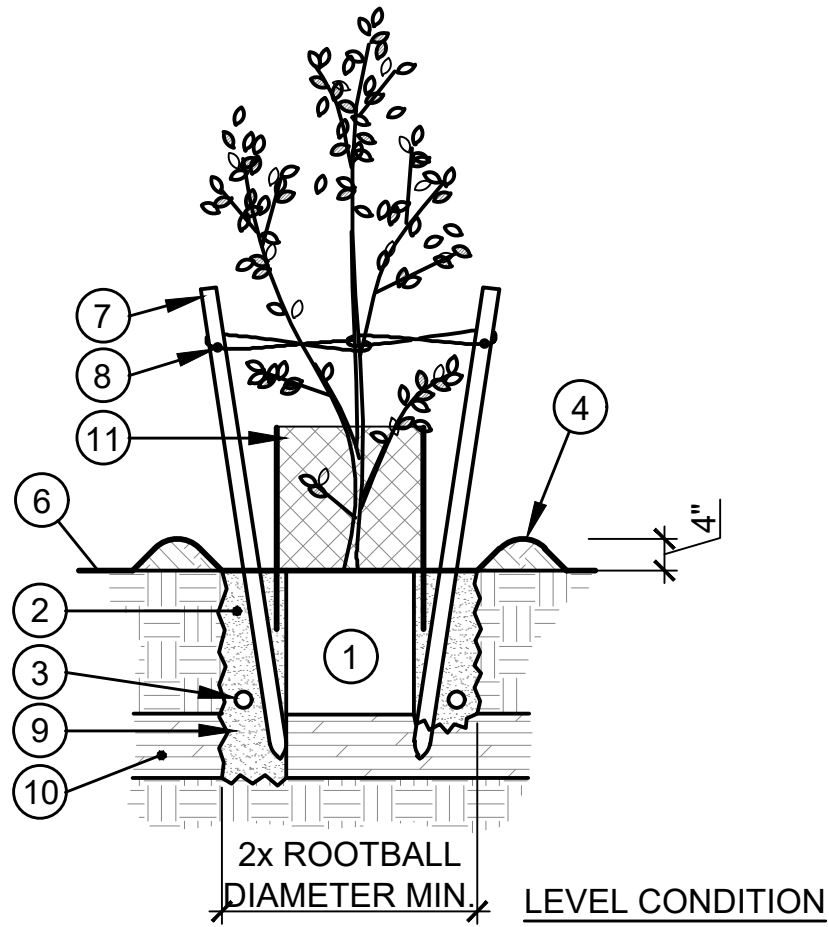
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SHEET NO. **2** OF **7**

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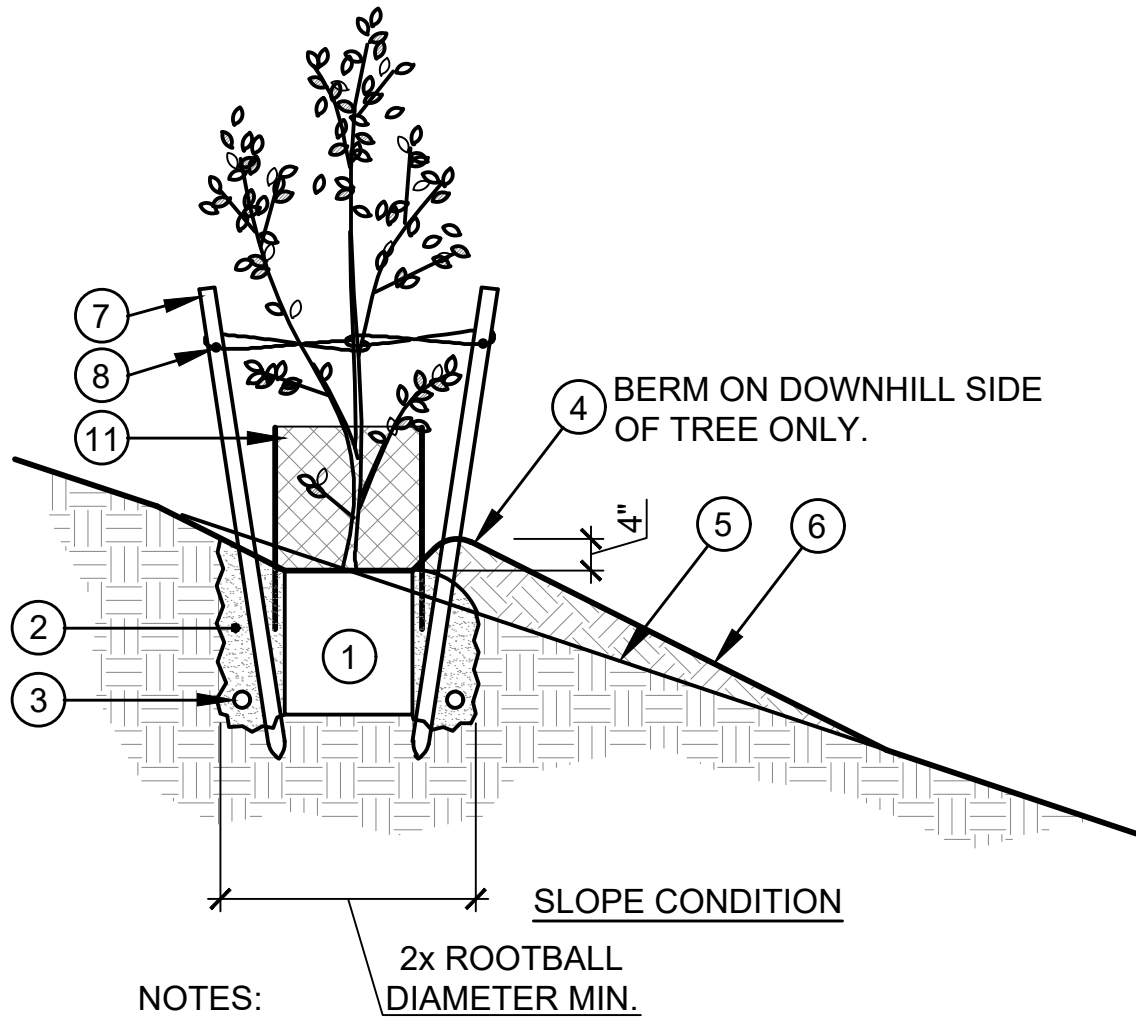
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LANDSCAPE PLAN PREPARED FOR: DCS UNIVERSITY DRIVE 8008 EAST UNIVERSITY DRIVE MESA, ARIZONA 85207 CITY OF MESA		520-795-1000 rickengineering.com		3945 E FORT LOWELL RD #111 TUCSON, AZ 85712		SEAL 		NO.		BY		DATE		REVISION	
landscape plan		PROJECT NO: 7408		DRAWN/DESIGNED BY:		MEF		CHECKED BY:							
		DATE: 10/2025													
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SHEET NO. 3 OF 7															

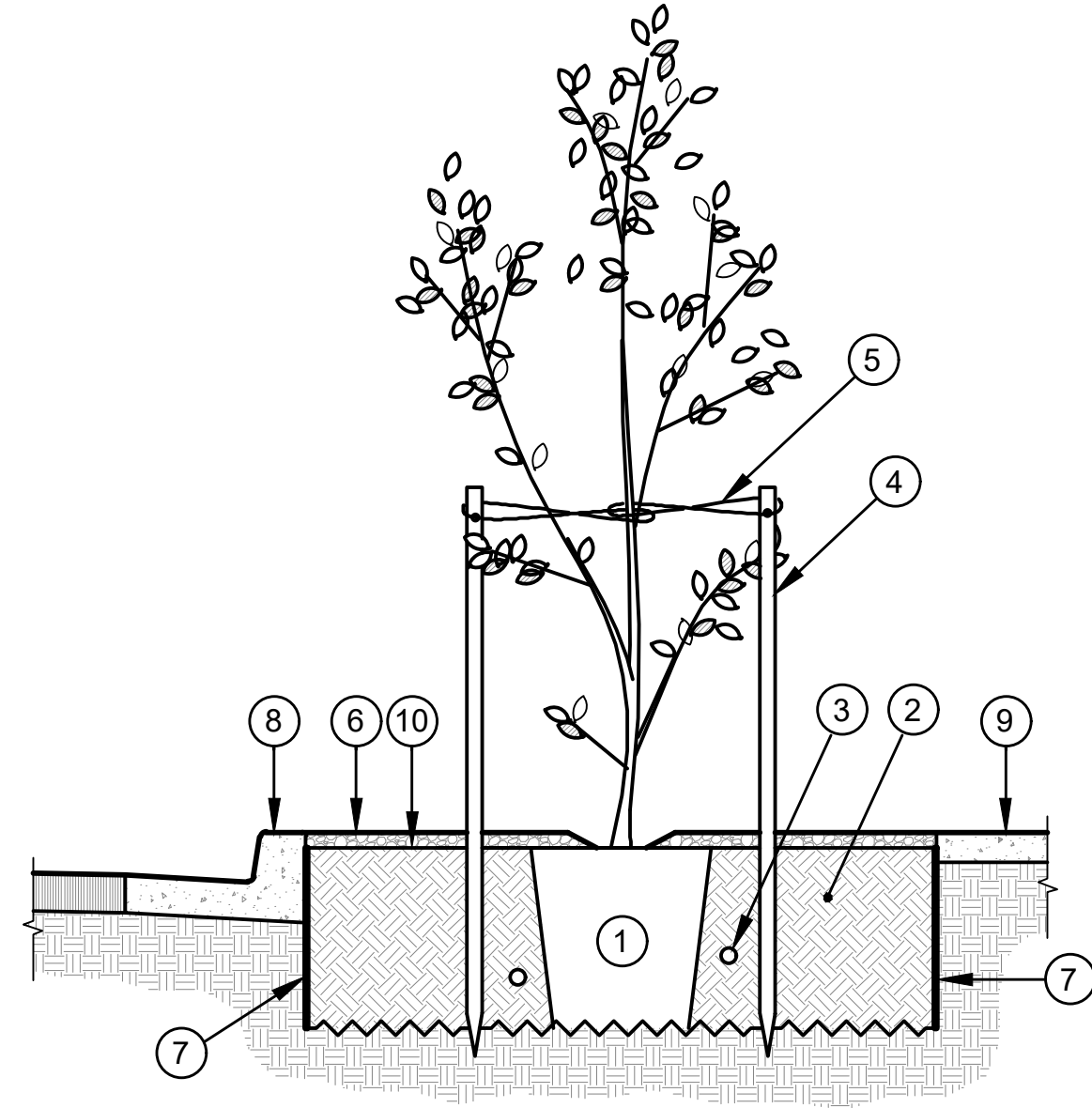


- 1 ROOTBALL. PLACE ON UNDISTURBED NATIVE SOIL AT BOTTOM OF PLANT PIT.
- 2 AMENDED BACKFILL MIX.
- 3 FERTILIZER TABLETS.
- 4 4" HIGH EARTH BERM / MICROBASIN (NOT REQUIRED FOR LEVEL CONDITION IF TREE IS LOCATED IN A DEPRESSED WATER HARVESTING AREA; ALWAYS REQUIRED FOR SLOPE CONDITION.)
- 5 SLOPE GRADE PRIOR TO PLANTING.
- 6 FINISH GRADE.
- 7 (2) 2" DIA. LODGE POLE STAKES. PLACE OUTSIDE OF ROOTBALL.
- 8 BLACK PLASTIC CINCH-TIE WITH ONE TWIST NAILED TO STAKE, OR APPROVED EQUAL. (WIRE TIES WITH RUBBER HOSE IS NOT ACCEPTABLE).
- 9 DRILL 8" DIAMETER CHIMNEY DRAINAGE HOLE AT BOTTOM OF PLANT PIT IF HARDPAN OR CALICHE SOIL LAYER IS ENCOUNTERED.
- 10 HARDPAN OR CALICHE SOIL LAYER.
- 11 BROWSE CAGE. SEE NOTE 6.



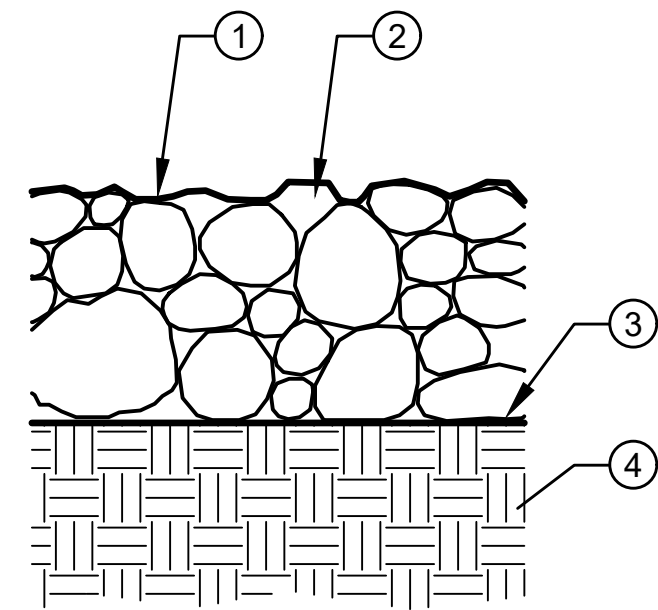
NOTES:

1. TREE STAKES ARE NOT REQUIRED FOR 5 GAL. TREES.
2. TREE STAKES MAY BE OMITTED IF TREE IS ABLE TO SUPPORT ITSELF UPRIGHT WITHOUT LEANING OR BENDING.
3. WHEN STAKES ARE INSTALLED, TIES SHOULD BE PLACED AS LOW AS POSSIBLE WHILE STILL PROVIDING NECESSARY SUPPORT. CUT STAKE APPROX. 6" ABOVE TIE TO AVOID BRANCHES RUBBING ON STAKE.
4. ALL NURSERY STAKES ARE TO BE REMOVED REGARDLESS OF PLANT SIZE.
5. SCARIFY SIDES OF PLANT PIT TO ELIMINATE SMOOTH SHOVEL CUTS PRIOR TO PLACEMENT OF TREE IN PIT.
6. CONTRACTOR SHALL INCLUDE BROWSE CAGES FOR ALL TREES AS AN ADDITIVE ALTERNATE IN THE BID. CONTRACTOR SHALL CLOSELY MONITOR TREES FOR WILDLIFE DAMAGE DURING THE MAINTENANCE PERIOD, AND SHALL IMMEDIATELY MAKE A RECOMMENDATION FOR A CORRECTIVE COURSE OF ACTION TO THE OWNER IF WILDLIFE DAMAGE OCCURS OR IS SUSPECTED. SUBMIT BROWSE CAGE SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.



NOTES:

- 1 ROOTBALL. PLACE ON UNDISTURBED SOIL AT BOTTOM OF PLANT PIT.
- 2 BACKFILL. SEE SPECIFICATIONS.
- 3 FERTILIZER TABLETS AS SPECIFIED.
- 4 (2) 2" DIA. LODGE POLE STAKES. PLACE OUTSIDE OF ROOTBALL.
- 5 BLACK PLASTIC CINCH-TIE WITH ONE TWIST NAILED TO STAKE, OR APPROVED EQUAL. (WIRE TIES WITH RUBBER HOSE IS NOT ACCEPTABLE).
- 6 ROCK MULCH AS SPECIFIED.
- 7 24" DEPTH ROOT BARRIER PER FINISH SCHEDULE.
- 8 CONCRETE CURB PER CIVIL PLANS.
- 9 CONCRETE SIDEWALK PER CIVIL PLANS.
- 10 FINISH GRADE OF BACKFILL.



- 1 PRE-EMERGENT WEED CONTROL ON TOP OF DECOMPOSED GRANITE/DECORATIVE ROCK AFTER ROCK IS PLACED.
- 2 MINIMUM 2" THICKNESS DECOMPOSED GRANITE/DECORATIVE ROCK. SIZE AND COLOR PER PLANTING LEGEND.
- 3 PRE-EMERGENT WEED CONTROL ON SUBGRADE PRIOR TO ROCK PLACEMENT.
- 4 SUBGRADE SHALL BE SMOOTH AND FREE OF DEBRIS PRIOR TO DECORATIVE ROCK PLACEMENT.

A TREE PLANTING

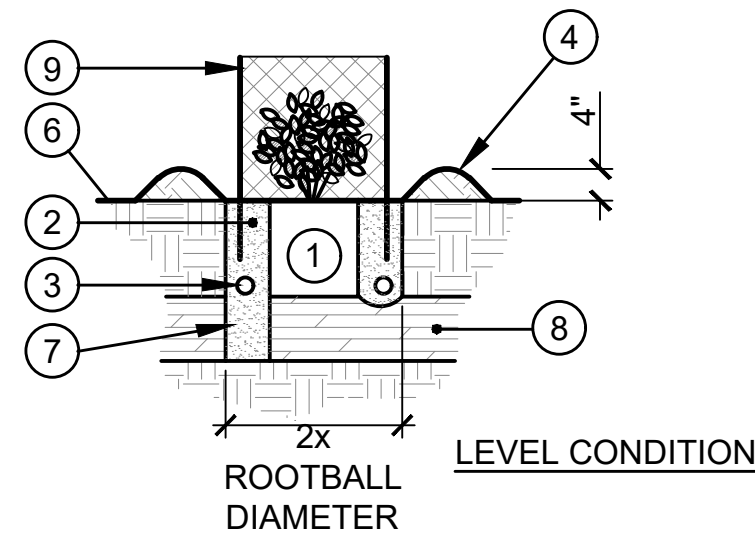
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B TREE ROOT BARRIER

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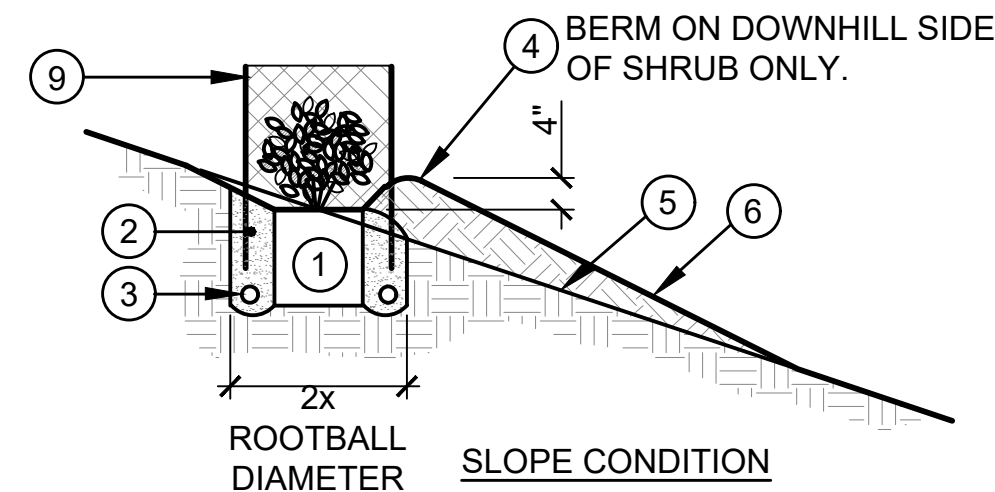
C ROCK MULCH

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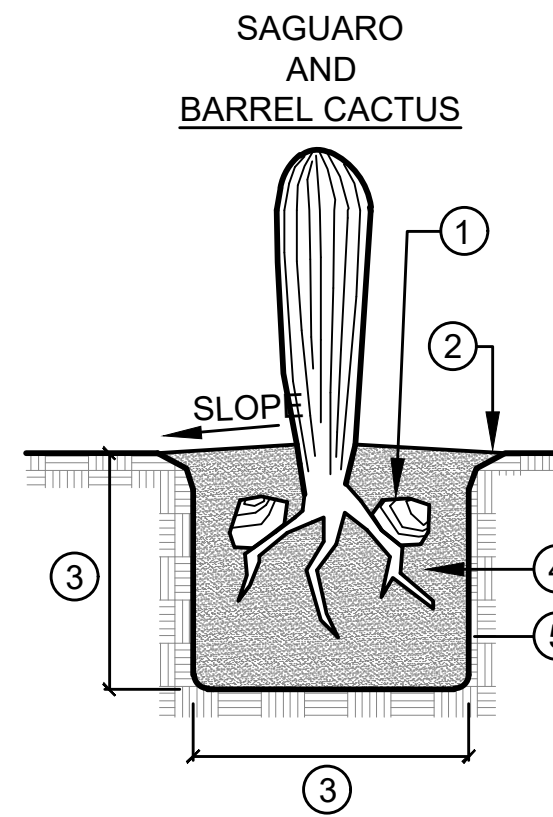


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- 8 HARDPAN OR CALICHE SOIL LAYER.
- 9 BROWSE CAGE. SEE NOTE.

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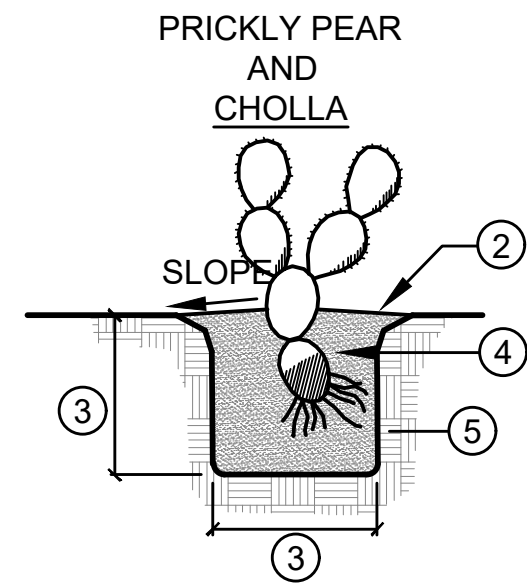
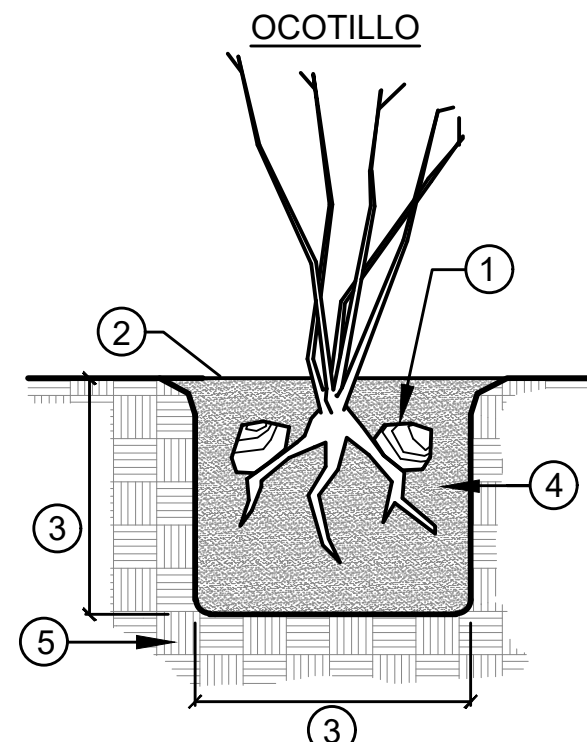


- 5 SLOPE GRADE PRIOR TO PLANTING.
- 6 FINISH GRADE.
- 7 DRILL CHIMNEY DRAINAGE HOLE AT BOTTOM OF PLANT PIT IF HARDPAN OR CALICHE SOIL LAYER IS ENCOUNTERED.
- 8 HARDPAN OR CALICHE SOIL LAYER.
- 9 BROWSE CAGE. SEE NOTE.



NOTES:

1. SET MAIN STEM OF CACTI PLUMB AS VIEWED FROM ALL SIDES.
2. DO NOT CREATE A BASIN AT BASE OF CACTUS. SLOPE BACKFILL AWAY FROM STEM.
3. TREAT ALL BARE ROOTS WITH POWDERED SULFUR.
4. PRICKLY PEAR ONLY - BURY ONE FULL PAD, MINIMUM.
5. SAGUARO ONLY - BURY PORTION OF GREEN CACTUS 1/10TH HEIGHT OF CACTUS. UP TO A MAXIMUM OF 24"
6. OCOTILLO - BURY ROOT SYSTEM SUCH THAT TOP OF ROOT SYSTEM IS 6" (MAX.) BELOW FINISHED GRADE



- 1 SUPPORT CACTI BY PLACING 2-4 ROCKS (1 CU. FT. MIN) ON ROOTS
- 2 FINISH GRADE
- 3 18" MINIMUM
- 4 BACKFILL (1/2 SCREENED NATIVE SOIL AND 1/2 CLEAN SAND)
- 5 UNDISTURBED NATIVE SOIL

D SHRUB PLANTING

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E CACTI PLANTING

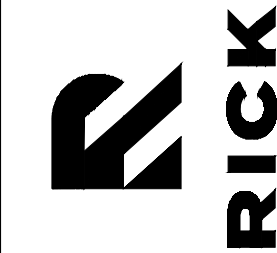
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TUCSON, AZ 85712

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LANDSCAPE PLAN PREPARED FOR:
DCS UNIVERSITY DRIVE
8008 EAST UNIVERSITY DRIVE
MESA, ARIZONA 85207
CITY OF MESA

landscape details



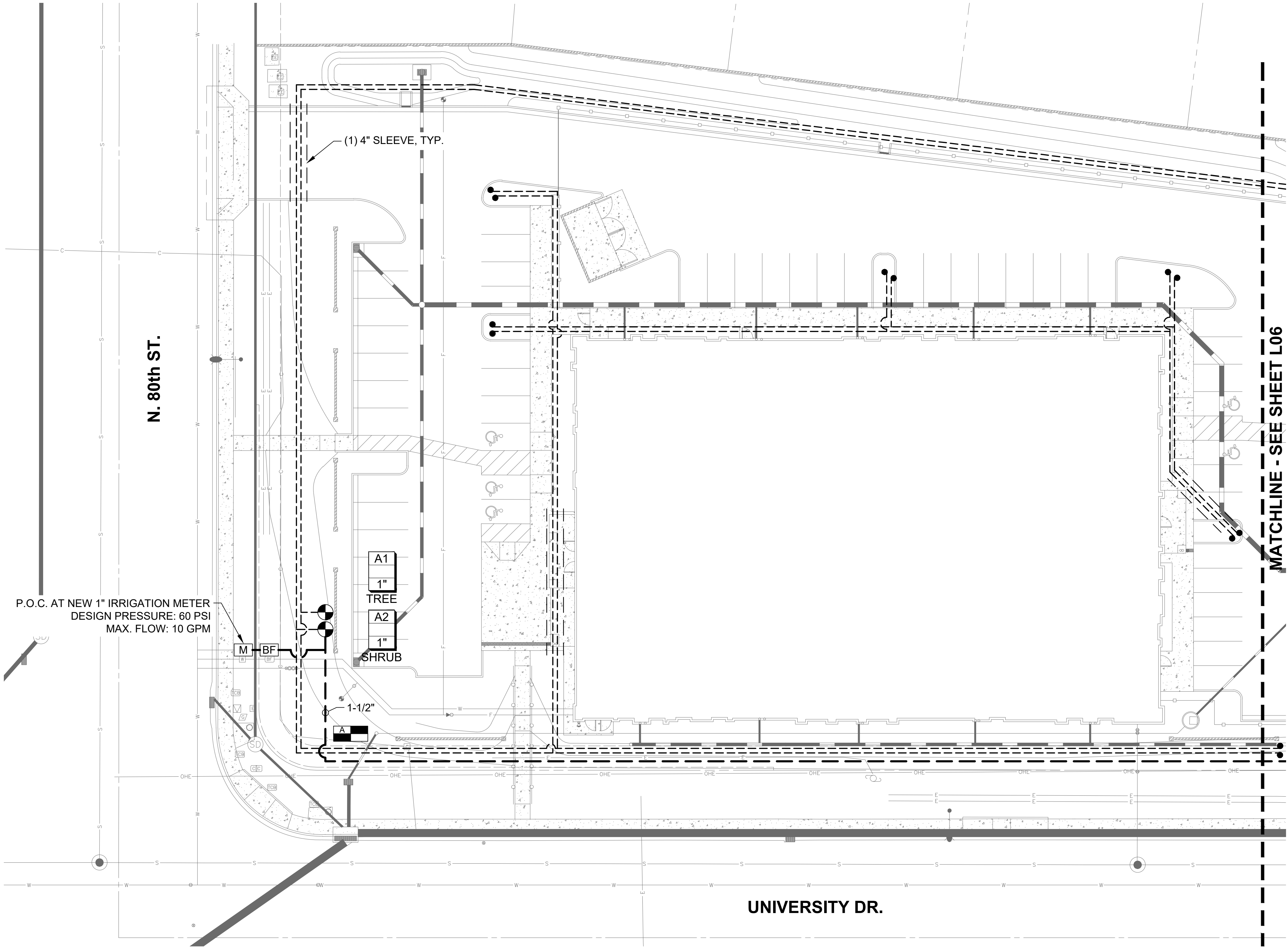
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SHEET NO. **4** OF **7**

RICK ENGINEERING IRRIGATION NOTES:

- A. ANY CHANGES MADE TO THE PLANS AND DETAILS SHOWN ON THESE DOCUMENTS WHICH ARE NOT APPROVED BY THE LANDSCAPE ARCHITECT RELEASES RICK ENGINEERING OF ANY LIABILITY INCURRED AS A RESULT OF SAID CHANGES.
- B. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR TO FOLLOW AS CLOSELY AS PRACTICAL. INSTALL PIPING AND EQUIPMENT IN PLANTER AREAS WHENEVER POSSIBLE WITH A MINIMUM OF 10' FEET CLEAR FROM TREE ROOT BALLS WHEN POSSIBLE. EQUIPMENT SHOWN ON PAVED AREAS IS FOR DESIGN CLARITY ONLY. IRRIGATION EQUIPMENT SHOWN OUTSIDE OF MAINTENANCE RESPONSIBILITY AREAS FOR CLARITY ONLY. ALL MAINTAINED AREA EQUIPMENT SHALL BE INSTALLED WITHIN THE LIMIT OF WORK LINES. DO NOT MAKE CHANGES OR ALTERATIONS TO PLANS WITHOUT PRIOR APPROVAL OF THE OWNERS REPRESENTATIVE. THE QUANTITIES AND CONDITIONS SHOWN ON THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK.
- C. IF ANY UTILITIES CONFLICT WITH THE ORIGINAL PLACEMENT OF INTENDED PLANT MATERIAL ON SITE THE LANDSCAPE ARCHITECT WILL AID THE CONTRACTOR IN THE RELOCATION OR SHIFTING OF PLANT MATERIAL ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE THERETO. ALL UTILITIES SHALL BE LOCATED AND VERIFIED PRIOR TO ANY EXCAVATION. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE IMMEDIATELY. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG (811) TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THIS WORK, AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE WORK.
- D. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, RULES AND REGULATION OF ALL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS.
- E. DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY FIELD CHANGES.
- F. DO NOT INSTALL IRRIGATION MAINLINE THROUGH THE MIDDLE OF PLANTER WHERE POTENTIAL CONFLICTS WITH TREES ARE EXISTING AND/OR PROPOSED. COORDINATE WITH PLANTING PLAN TO AVOID CONFLICTS.
- G. VALVE MANIFOLDS, BALL VALVES, RCV'S, QUICK COUPLERS, ETC. SHALL BE LOCATED WITHIN SHRUB PLANTING AREAS. VERIFY ACTUAL LOCATIONS IN THE FIELD WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
- H. THE CONTRACTOR SHALL VERIFY AVAILABLE WATER PRESSURE AT POINT OF CONNECTION AND PROVIDE TO OWNER AND OWNERS REPRESENTATIVE WITH TESTING RESULTS IN WRITING PRIOR TO BEGINNING WORK.
- I. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT THE POINT OF CONNECTION (P.O.C.). THE IRRIGATION CONTRACTOR SHALL VERIFY THE WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER

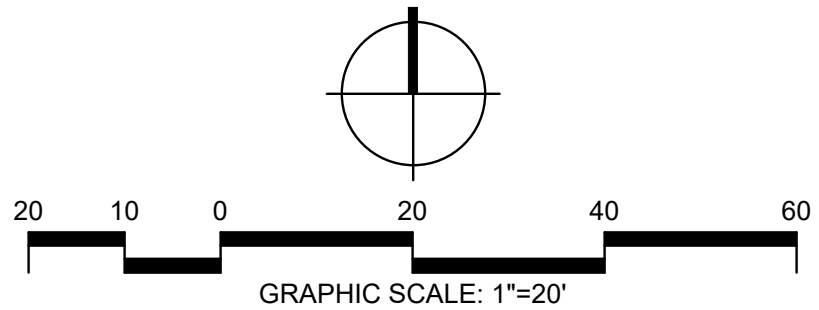
PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POC TO THE OWNERS REPRESENTATIVE. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND COSTS ASSOCIATED WITH SAID REVISIONS.

- J. THE CONTRACTOR SHALL FURNISH AN IRRIGATION SYSTEM THAT PROVIDES COMPLETE COVERAGE TO ALL INTENDED AREAS. CONTRACTOR SHALL MAKE ALL REQUIRED ADJUSTMENTS TO ASSURE ADEQUATE SYSTEM COVERAGE AND DISTRIBUTION EFFICIENCY. CONTRACTOR SHALL ADJUST ALL HEADS, LATERALS AND MAINLINE AS REQUIRED TO ACCOMMODATE ANY HORIZONTAL OBSTRUCTIONS THAT MAY OCCUR INCLUDING BUT NOT LIMITED TO FLATWORK, LIGHT POLES, FIRE HYDRANTS, TRANSFORMERS, ETC. ADD ADDITIONAL SPRINKLER HEADS, BUBBLERS, EMITTERS, ETC. AND ADJUST ALL EXISTING AND PROPOSED EQUIPMENT WITHIN THE PROJECT LIMITS OF WORK FOR OPTIMUM COVERAGE AND MINIMUM OVERSPRAY. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- K. THE CONTRACTOR IS TO HAVE ACTUAL LOCATIONS OF THE AUTOMATIC CONTROLLER(S) APPROVED IN THE FIELD BY THE OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.
- L. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE ELECTRICAL SERVICE WITH THE GENERAL CONTRACTOR AND MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.
- M. SHOULD FIELD CONDITIONS REQUIRE PIPE INSTALLATION OTHER THAN THAT SHOWN ON PLANS, THE CONTRACTOR SHALL LIMIT EXCESS FLOW AND SIZE ALL PIPE NOT TO EXCEED A VELOCITY OF 5 FEET PER SECOND (FPS) IN PVC PIPE. FLOW THROUGH ANCILLARY EQUIPMENT OR COPPER PIPE SHALL NOT EXCEED 7.5 FPS. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- N. BACKFILL OVER MAINLINES SHALL OCCUR ONLY AFTER INSPECTION OF MAINLINES. PROVIDE 4" OF ROCK FREE SOIL OR SAND IMMEDIATELY AROUND PIPE.
- O. INSTALL ALL IRRIGATION PIPING AND WIRES IN SCH 40 PVC SLEEVE WHEN ROUTED UNDER PAVEMENT OR STRUCTURES AS DETAILED AND PER THE SPECIFICATIONS. WIRES ARE TO BE PLACED IN AN INDEPENDENT SLEEVE, SEPARATE FROM THE IRRIGATION PIPING. ALL SLEEVES TO EXTEND 12" MINIMUM PAST THE EDGE OF PAVEMENT AT THE PROPER DEPTH. SEE IRRIGATION DETAILS. ALL SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE BEING SLEEVED UNLESS OTHERWISE NOTED ON PLANS.
- P. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- Q. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, COORDINATION AND SEQUENCING DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS AND SPECIFICATIONS.
- R. THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK. ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- S. CONTRACTOR SHALL INSTALL MANUAL DRAIN VALVE(S) AS DETAILED AT SYSTEM LOW POINT(S) AND FURNISH AND INSTALL FITTINGS AS REQUIRED FOR SYSTEM WINTERIZATION, IF APPLICABLE, PER STANDARD LOCAL PRACTICE.



IRRIGATION EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	REMARKS
	NEW 1" WATER METER		
	AUTOMATIC CONTROLLER	6 STA. HUNTER XC HYBRID WITH SOLAR PANEL	STAINLESS STEEL SOLAR OUTDOOR MODEL ON XCHSPOLE
	BACKFLOW PREVENTION ASSEMBLY	1" FEBCO 825Y	INSTALL AS DETAILED, WITH GUARDSHACK ENCLOSURE (TAN)
	DRIP REMOTE CONTROL VALVE ASSEMBLY	RAINBIRD CONTROL ZONE KIT XCZ-100-PRB-COM	INSTALL AS DETAILED
	1-1/2" PVC MAINLINE PIPE		PVC SCH 40, SIZE PER PLAN
	PVC SLEEVE		PVC SCH 40; TWO TIMES DIA. OF PIPE OR WIRE BUNDLE UNLESS SIZE IS NOTED OTHERWISE ON PLAN.
	3/4" POLYETHYLENE LATERAL		EXTEND FROM PRESSURE REGULATORS TO WITHIN 10' OF EACH TREE AND SHRUB.
NOT SHOWN	SINGLE OUTLET EMITTER	RAINBIRD XB-10, OR EQUAL	
NOT SHOWN	MULTI-OUTLET EMITTER	RAINBIRD XB-10-6, OR EQUAL	
	FLUSH CAP	JAIN IRRIGATION MODEL CEFCHL	INSTALL IN 6" ROUND VALVE BOX



LANDSCAPE PLAN PREPARED FOR:

DCS UNIVERSITY DRIVE
8008 EAST UNIVERSITY DRIVE
MESA, ARIZONA 85207
CITY OF MESA

520-795-1000
rickengineering.com

3945 E FORT LOWELL RD #111
TUCSON, AZ 85712

PROJECT NO: 7408
DATE: 10/2025

irrigation plan

SEAL

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TUCSON, AZ 85712

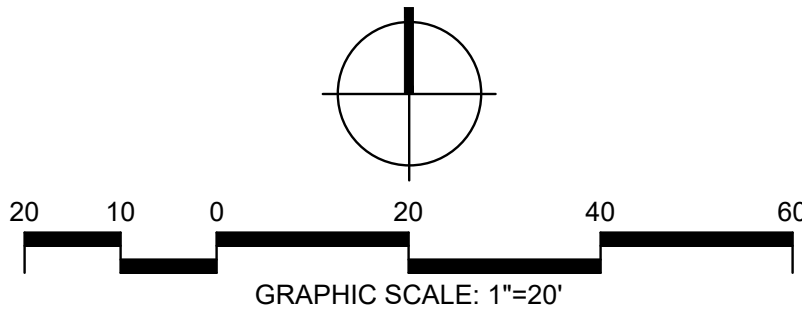
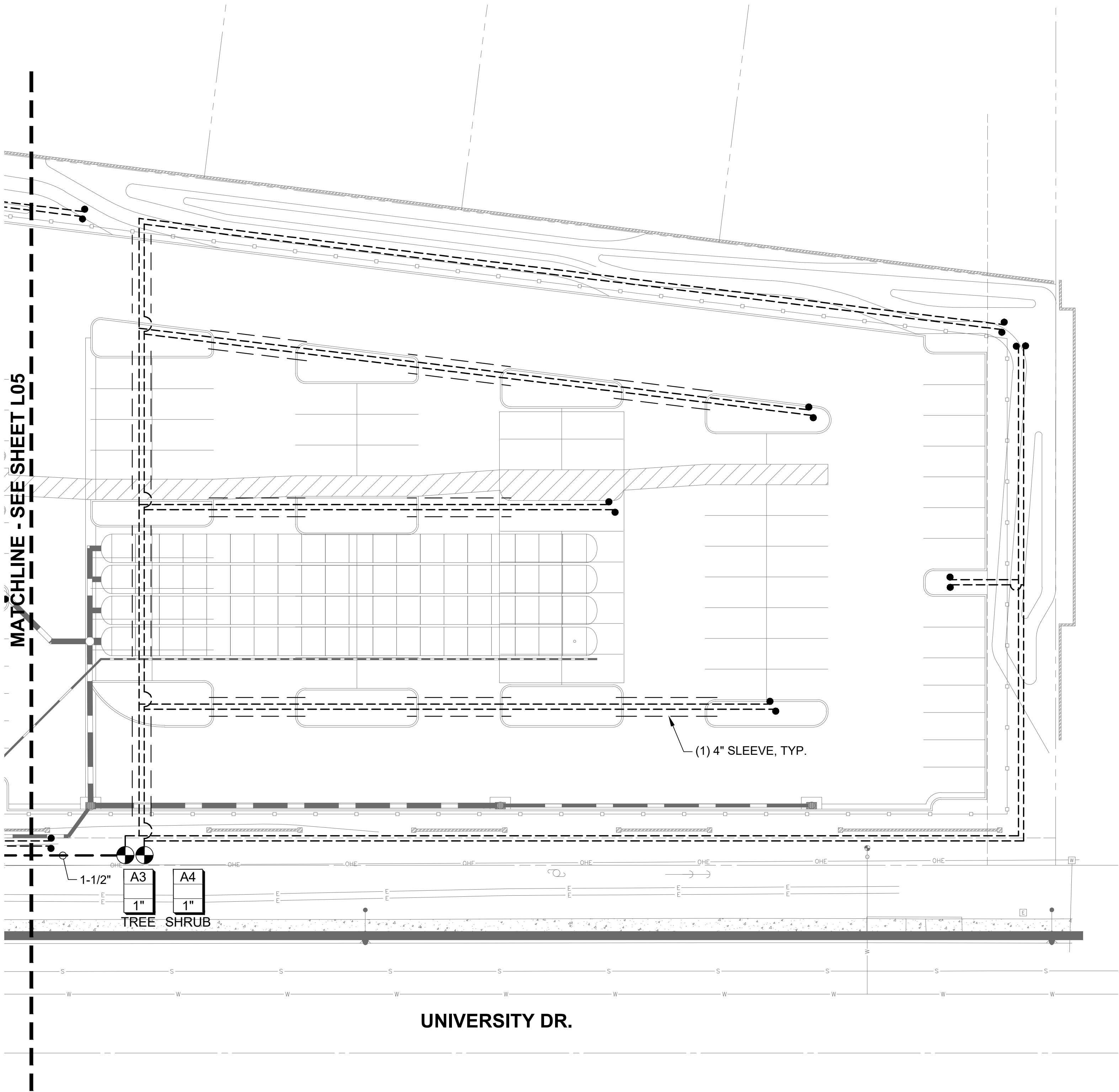
CONTACT ARIZONA 811 AT LEAST TWO full working days before you begin excavation

Call 811 or click Arizona811.com

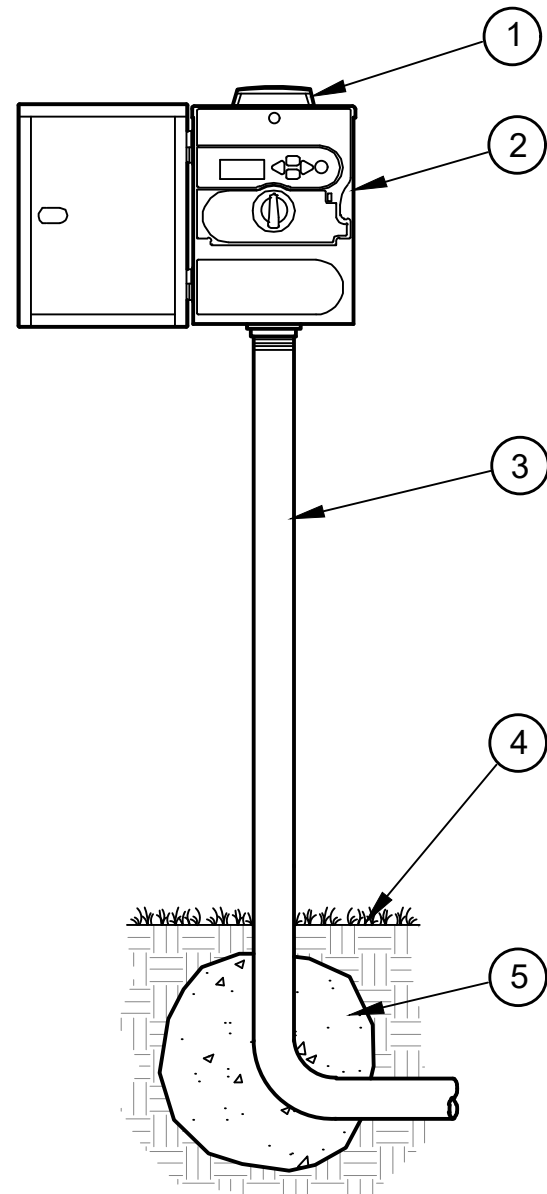
DRAWING NO. **L05**
SHEET NO. **5** OF **7**

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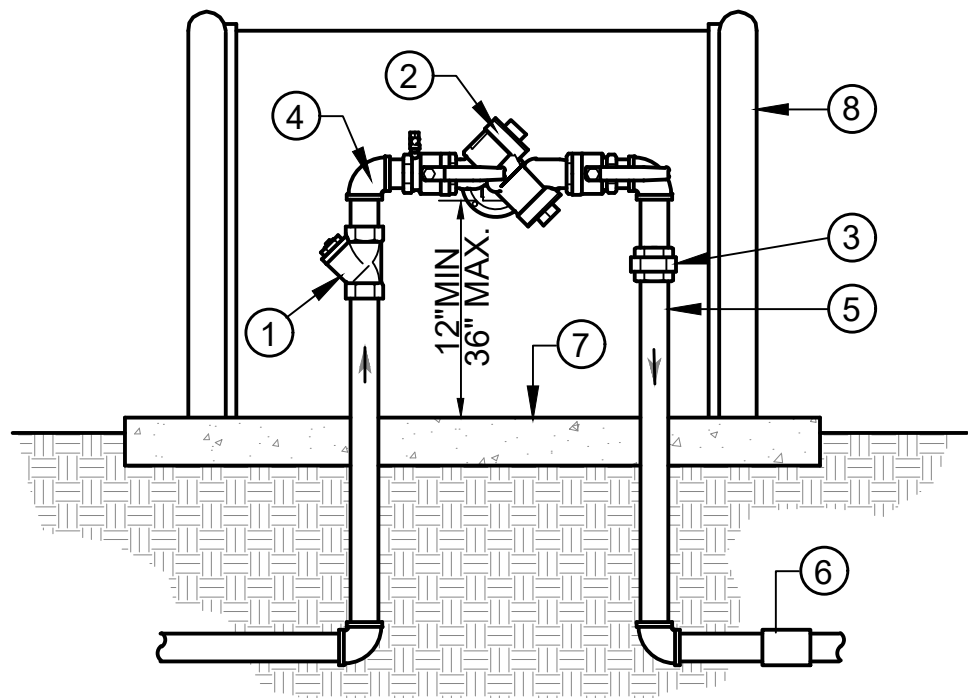


LANDSCAPE PLAN PREPARED FOR:		3945 E FORT LOWELL RD #111 TUCSON, AZ 85712	
DCS UNIVERSITY DRIVE 8008 EAST UNIVERSITY DRIVE MESA, ARIZONA 85207 CITY OF MESA		520-795-1000 rickengineering.com	
irrigation plan		RICK FELLINGER	
DRAWING NO. L06		PROJECT NO: 7408 DATE: 10/2025	
SHEET NO. 6 OF 7		DRAWN/DESIGNED BY: MEF CHECKED BY:	
		NO. BY. DATE REVISION	



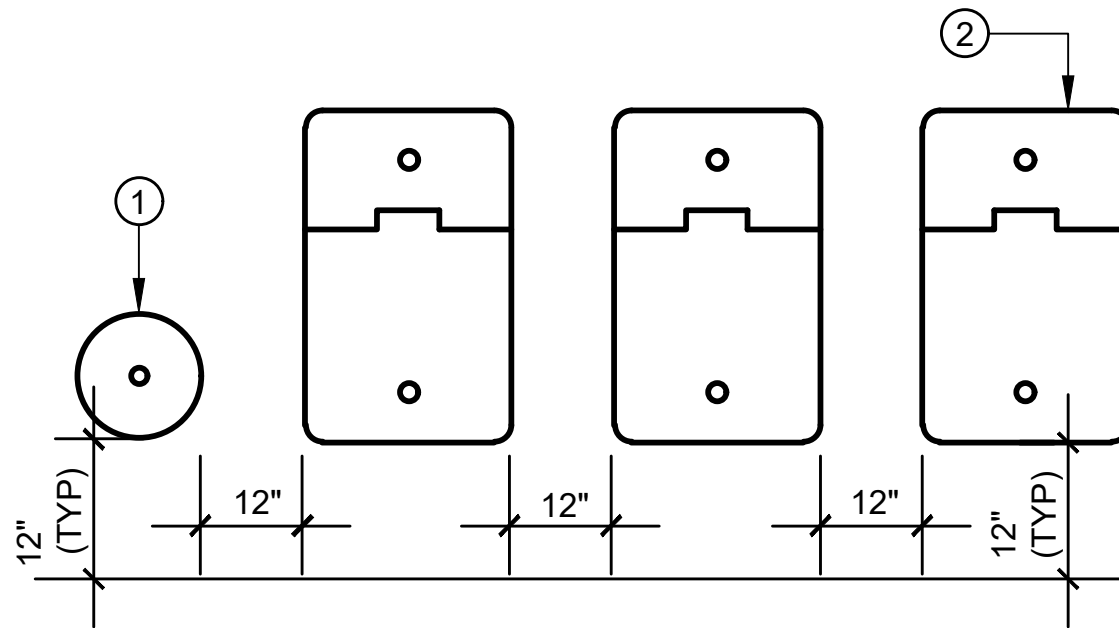
- 1 SOLAR PANEL PER IRRIGATION LEGEND
- 2 IRRIGATION CONTROLLER PER IRRIGATION LEGEND
- 3 STAINLESS STEEL POLE AND MOUNTING BRACKET
- 4 FINISHED GRADE
- 5 MIN. 1 CU. FT. CONCRETE

A IRRIGATION CONTROLLER NOT TO SCALE



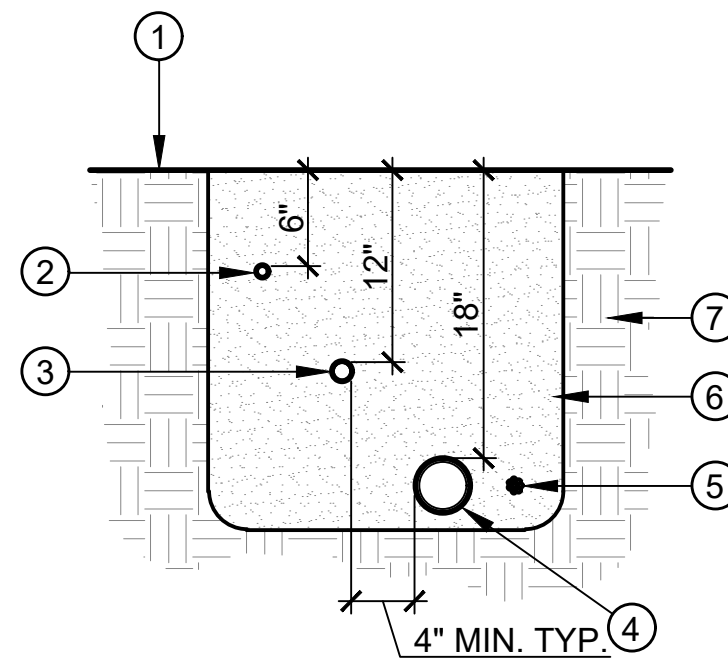
- 1 BRASS WYE STRAINER (LINE SIZE)
- 2 REDUCED PRESSURE BACKFLOW DEVICE WITH 2 BALL VALVES, REFER TO PLAN FOR TYPE AND SIZE
- 3 BRASS UNION
- 4 BRASS ELL (TYPICAL)
- 5 BRASS NIPPLE, TYPICAL
- 6 PVC MALE ADAPTER
- 7 3" THICK CONCRETE PAD. WRAP PIPES W/ 10 MIL. TAPE. SATURATE AND COMPACT SUB-GRADE TO 90% PRIOR TO POUR.
- 8 ENCLOSURE PER LEGEND.

B BACKFLOW PREVENTION DEVICE NOT TO SCALE



- NOTES:
- 1. VALVE BOXES SHALL BE LABELED BY HOT IRON BRANDING OR ALUMINUM ASPHALT BASED WATERPROOF PAINT.
 - 2. CONTROL VALVES SHALL BE INSTALLED TO ALLOW ORDERLY ARRANGEMENT OF VALVE BOXES.
 - 3. LOCATE VALVE ASSEMBLIES IN SHRUB OR GROUND COVER AREAS WHEN POSSIBLE.
 - 4. LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - 5. CENTER VALVE BOXES OVER VALVE ASSEMBLY TO FACILITATE ACCESS AND MAINTENANCE.
 - 6. SET VALVE BOXES AT EQUAL ELEVATIONS WITH TOPS AT FINISH GRADE IN TURF AREAS OR 2" ABOVE FINISH GRADE IN SHRUB/GROUND COVER AREAS.
 - 7. VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF AREA.
 - 8. DO NOT DEFORM OR COLLAPSE VALVE BOX BY EXCESSIVE SOIL COMPACTING AROUND BOX.
 - 9. ON RECYCLED SYSTEMS ALL VALVE BOXES AND QUICK COUPLING VALVES SHALL BE CLEARLY COLORED PURPLE.

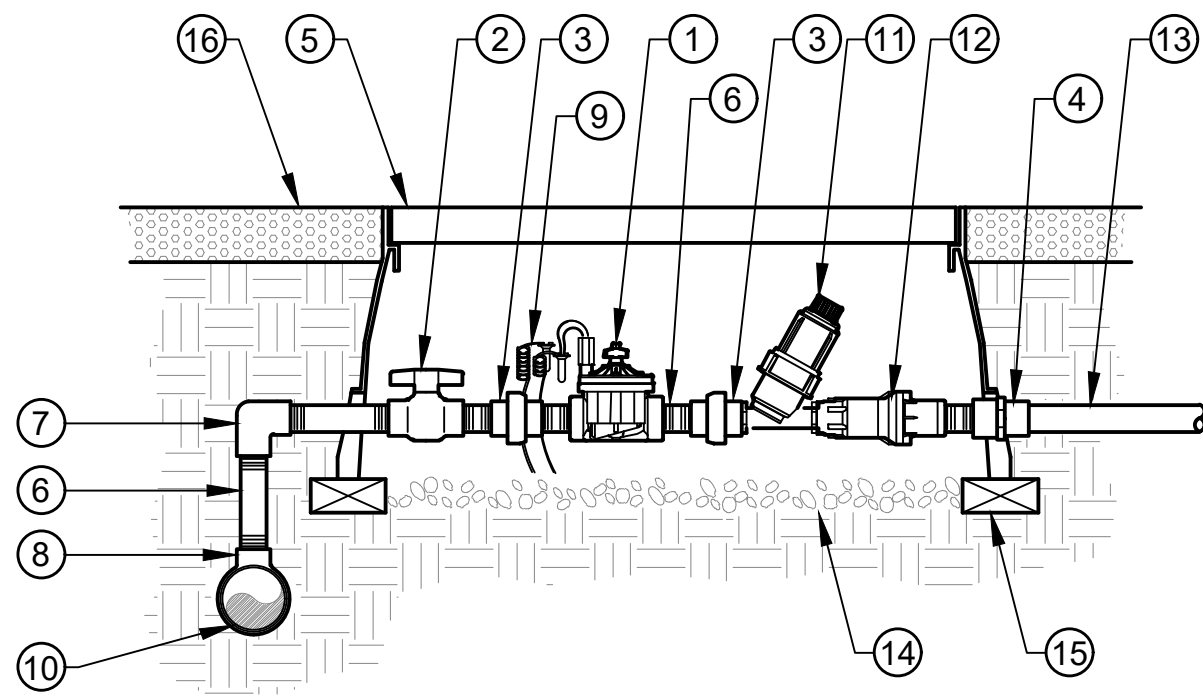
C VALVE BOX LAYOUT NOT TO SCALE



- 1 FINISH GRADE
- 2 POLYETHYLENE LATERAL LINE OR LANDSCAPE DRIPLINE.
- 3 PVC LATERAL LINE
- 4 PVC MAINLINE
- 5 DIRECT BURIAL LOW VOLTAGE CONTROL WIRES, BUNDLE AT 10 FT. O.C., BURY AT SAME DEPTH AS MAINLINE
- 6 CLEAN BACKFILL, SATURATE AND COMPACT TO 90%
- 7 UNDISTURBED SOIL

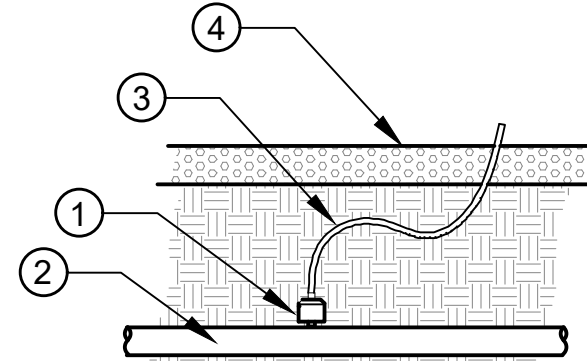
NOTE: EXTEND SLEEVE ENDS 24" BEYOND BACK OF CURB, WALK, OR PAVEMENT EDGE. A CONTINUOUS MAGNETIC MARKING TAPE SHALL BE PLACED 12 INCHES BELOW FINISHED GRADE ABOVE THE SLEEVE. AT ROAD CROSSINGS, THE CURB SHALL BE MARKED BY A STAMPED LABEL "I" (IRRIGATION SYSTEM). SLEEVE ENDS SHALL BE COVERED WITH HEAVY DUTY TAPE TO PREVENT SOIL FROM ENTERING SLEEVES UPON BACK FILLING.

D TRENCHING AND SLEEVING NOT TO SCALE



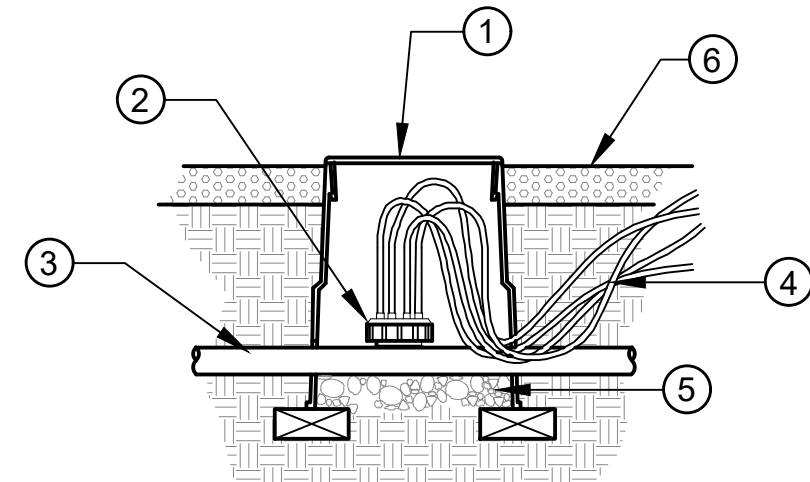
- 1 REMOTE CONTROL VALVE PER IRRIGATION LEGEND.
- 2 2" GRAY FEMALE THREADED PVC BALL VALVE (SAME SIZE AS RCV)
- 3 SCH. 80 PVC UNION (THREADED)
- 4 SCH. 80 PVC FEMALE ADAPTER (FPT x SLIP)
- 5 VALVE BOX.
- 6 2" SCH. 80 PVC NIPPLE, TYP.
- 7 2" SCH. 80 PVC ELBOW (THREADED)
- 8 2" SCH. 80 PVC TEE (THREADED)
- 9 30-INCH LINEAR LENGTH OF WIRE, COILED, WATERPROOF CONNECTIONS
- 10 PVC MAINLINE PER IRRIGATION LEGEND, SIZE PER PLAN
- 11 WYE FILTER PER IRRIGATION LEGEND
- 12 PRESSURE REGULATOR PER IRRIGATION LEGEND
- 13 LATERAL LINE PER IRRIGATION LEGEND, SIZE PER PLAN
- 14 3" MIN. DEPTH OF 3/4" WASHED GRAVEL
- 15 BRICKS FOR BOX SUPPORT (1 AT EA. CORNER)
- 16 FINSHED GRADE OF ROCK MULCH

E REMOTE CONTROL VALVE (DRIP) NOT TO SCALE



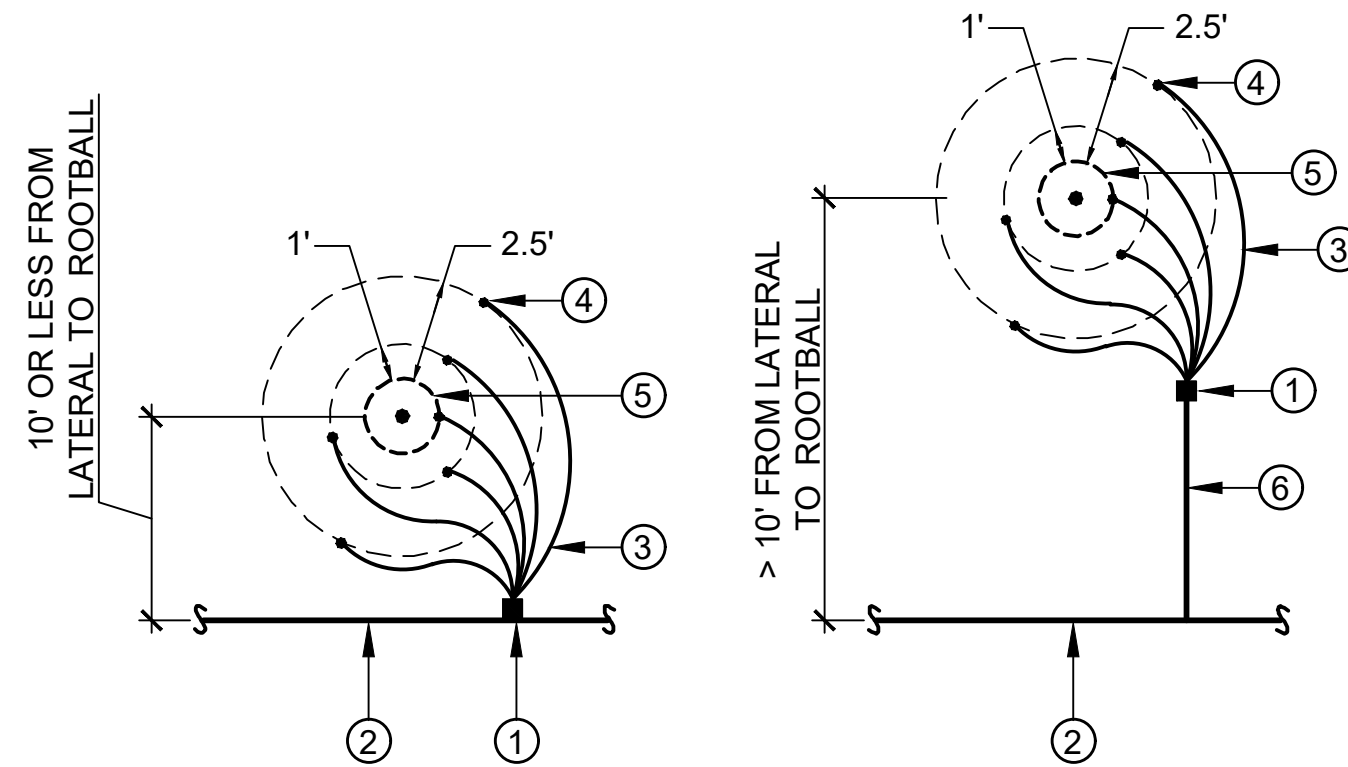
- 1 SINGLE OUTLET DRIP EMITTER PER LEGEND
- 2 3/4" POLYETHYLENE LATERAL
- 3 1/4" DISTRIBUTION TUBING
- 4 FINISH GRADE

F SINGLE OUTLET DRIP EMITTER NOT TO SCALE



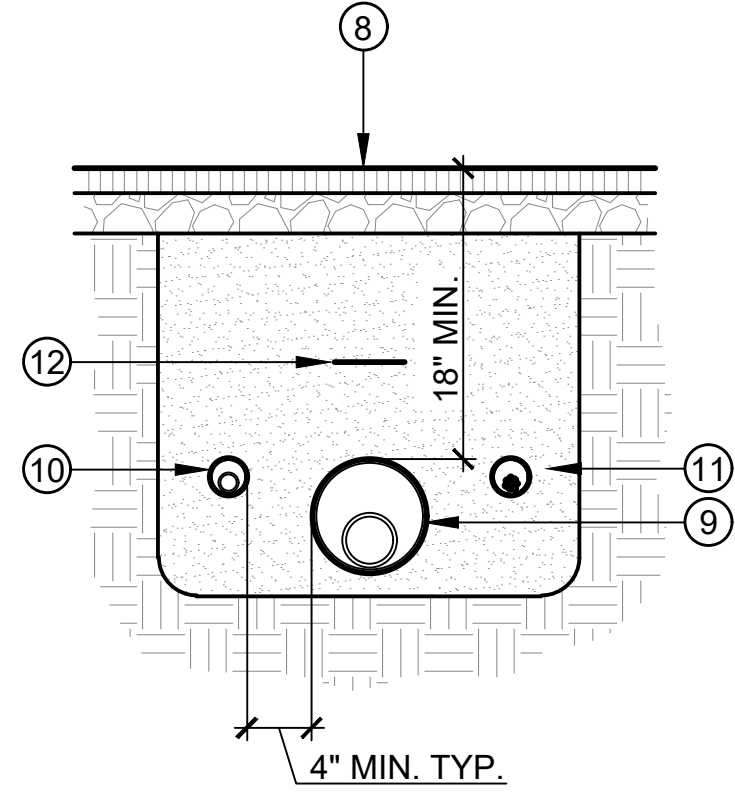
- 1 6" ROUND VALVE BOX
- 2 MULTI-OUTLET DRIP EMITTER PER LEGEND
- 3 3/4" POLYETHYLENE LATERAL
- 4 1/4" DISTRIBUTION TUBING
- 5 3" MIN. DEPTH OF 3/4" WASHED GRAVEL
- 6 FINISH GRADE

G MULTI-OUTLET DRIP EMITTER NOT TO SCALE

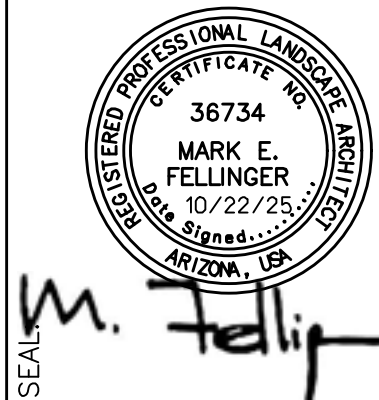


- 1 MULTI-OUTLET DRIP EMITTER
- 2 LATERAL LINE PER LEGEND
- 3 1/4" DISTRIBUTION TUBING, TYP.
- 4 DISCHARGE POINT, TYP., TO BE 1" ABOVE FINISH GRADE
- 5 TREE ROOTBALL
- 6 INSTALL SUBLATERALS WHERE TREE ROOTBALL IS GREATER THAN 10' FROM LATERAL

H EMITTER PLACEMENT @ TREES NOT TO SCALE



- 8 PAVED SURFACE
- 9 MAIN LINE SLEEVE
- 10 LATERAL LINE SLEEVE
- 11 CONTROL WIRE SLEEVE
- 12 MARKING TAPE



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