FEDERICOS AT PEBBLECREEK

2455 N PEBBLECREEK PKWY
GOODYEAR, ARIZONA 85395

PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
Acaicia aneura Mulga Caliper Size: 1.5"	24" Box	*ADWR	5
Parkinsonia x 'Desert Museum' Desert Museum Palo Brea Caliper Size: 1.5"	24" Box	*ADWR	6

GROUNDCOVERS			QTY
Sphagneticola trilobata Yellow Dot	5 Gallon	*ADWR	9
Lantana montevidensis Trailing Lantana 'White'	5 Gallon	*ADWR	43

SHRUBS / ACCENTS			QTY
Justicia candicans Firecracker Bush	5 Gallon	*ADWR	9
Calliandra eriophylla Pink Fairy Duster	5 Gallon	*ADWR	21
Muhlenbergia capillaris Regal Mist Grass	5 Gallon	*ADWR	14
Hesperaloe parviflora Red Yucca	5 Gallon	*ADWR	30
Convolvulus mauritanicus Ground Morning Glory	5 Gallon	*ADWR	21

LANDSCAPE MATERIALS	
Decomposed Granite. 3/4" minus, Tan-Gold, 2" deep in planting areas per plan. Match existing adjacent on-site.	4,390 sq.ft.
Existing Landscaped Areas - protect all plants in place. Maintain plants and irrigation during construction.	N/A

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

IRRIGATION LEGEND

SYSTEM DESIGNED USING A RESIDUAL PRESSURE OF 70 PSI

SYMBOL		
M	WATER METER	PER GOODYEAR STANDARDS, NEW IRRIGATION METER - 1.0" SIZE
	RPBFA	BACKFLOW PREVENTER ASSEMBLY, FEBCO 825-Y, 1.0" SIZE PER PLAN, PROVIDE METAL ENCLOSURE.
A	CONTROLLER	HUNTER ACC COMMERCIAL CONTROLLER, 12 STATION. ACC-1200 WALL MOUNT - METAL ENCLOSURE PAINT TO MATCH ARCHITECTURE FINISH WHERE MOUNTED.
	GATE VALVE	NIBCO MODEL# T-113, SIZE PER LINE BRONZE MATERIAL
	DRIP VALVE	HUNTER ICV SERIES WITH 150 MESH WYE-STRAINER SIZE PER PLAN
	FLUSH CAP	SPEARS FLUSH CAP 1/2" FLUSH VALVE
	PRESSURE REG.	SENNIGER 30 PSI - LOCATE IN SEPARATE BOXES MEDIUM FLOW 2-20GPM - 30 PSI (100 MESH)
N/S	EMITTER - SP	BOWSMITH 1.0 GPH (1 PER PLANT)
	EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
	SERVICE POINT	CONNECT TO EXISTING POTABLE WATER SERVICE

PIPE LEGEND

	MAINLINE - SIZE PER PLAN PVC SCH. 40
	TREE LATERAL PVC SCH. 40 - SOLVENT WELD
	SHRUB LATERAL PVC SCH. 40 - SOLVENT WELD
	PIPE SLEEVE PVC SCH. 40 - 2 X PIPE SIZE MINIMUM

IRRIGATION GENERAL NOTES

1. IRRIGATION PLAN IS DIAGRAMMATIC. ADJUST LOCATION OF VALVES TO PROVIDE FULL AND ADEQUATE COVERAGE OR ADD EMITTERS AS NECESSARY TO ENSURE 100% COVERAGE OF PLANT MATERIALS. PREVENT OVERSPRAY ON ADJACENT IMPROVEMENTS.
2. VERIFY WATER PRESSURE IN FIELD AND NOTIFY OWNER IMMEDIATELY SHOULD A DISCREPANCY EXIST.
3. SYSTEM DESIGN REQUIRES A STATIC PRESSURE OF 60 TO 75 PSI. CONTRACTOR SHALL PERFORM A FIELD VERIFICATION OF THE PRESSURE READING PRIOR TO ORDERING MATERIALS OR STARTING IRRIGATION.
4. COORDINATE IRRIGATION SLEEVES LOCATION AND SIZE WITH A MINIMUM DIAMETER TWICE THE SIZE OF THE IRRIGATION LINE. EXTEND SLEEVES 12" BEYOND EDGE OF PAVEMENT, WALL, WALKS OR CURB.
5. PROGRAM CONTROLLERS TO MAINTAIN SUFFICIENT FLOW RATES THROUGHOUT THE SYSTEM. ADJUST AS REQUIRED FOR SEASON AND PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
6. LOCATE TAN COLOR (CARSON OR EQUAL) VALVE BOXES (IRRIGATION, GATE VALVE, FLUSH CAP, CONTROL WIRE AND OTHERS) IN PLANTER AREAS. DO NOT LOCATE VALVE BOXES IN A LAWN OR HARDSCAPE UNLESS REQUIRED AND APPROVED BY OWNER.
7. ALL IRRIGATION EQUIPMENT DESCRIBED IN LEGEND WILL BE ACCEPTED AS APPROVED EQUALS FOR PERFORMANCE. CONTRACTOR MAY SUBMIT FOR REVIEW EQUAL PERFORMANCE EQUIPMENT.
8. MAINTAIN OR RESTORE ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS IMPACTED BY ANY WORK PERFORMED UNDER THIS CONTRACT. RESTORE IRRIGATION TO PROVIDE 100% SERVICE AND COVERAGE.
9. CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL IRRIGATION SYSTEM INCLUDING ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.
11. CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SLEEVING WITH OTHER CONTRACTORS PRIOR TO CONSTRUCTION OF PAVEMENT, WALKS, AND OTHER HARDSCAPE FEATURES.
12. THREADED JOINTS SHALL BE WRAPPED WITH TEFLON TAPE UNLESS OTHERWISE SPECIFIED BY MANUFACTURER. USE LIQUID TEFLON ON METAL PIPE THREADS ONLY.
13. VALVE CORNERS, VAULT BOXES, ETC. SHALL BE PLACED SO THE EDGES ARE PARALLEL OR PERPENDICULAR TO ADJACENT HARD EDGES. TOP OF BOX IS TO BE FLUSH WITH GRADE. TOP SURFACE OF BOX SHALL BE INSTALLED SO THAT A SMOOTH SURFACE IS CREATED IN RELATION TO EXISTING GRADES.
14. NO PVC PIPING SHALL BE LOCATED UNDER TREE ROOTBALLS.

LANDSCAPE NOTES

1. PERFORM WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND SPECIFICATIONS.
2. CAREFULLY INSPECT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING. NOTIFY LANDSCAPE ARCHITECT OF DISCREPANCIES WITH THESE DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE ABOVE STANDARDS, SPECIFICATIONS AND DRAWINGS, AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS WHICH MAY BE NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
3. HOLD HARMLESS AND INDEMNIFICATION CLAUSE - THE CONTRACTOR SHALL AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. INCLUDING SAFETY TO ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDSCAPE ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE LANDSCAPE ARCHITECT.
4. UNAUTHORIZED CHANGES TO DRAWINGS - THE LANDSCAPE ARCHITECT SHALL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USE OF DRAWINGS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
5. UNDERGROUND SERVICE ALERT - NOTIFY BLUE STAKE 48 HOURS PRIOR TO DIGGING AT 1-800-STAKE-IT. EXERCISE EXTREME CARE IN WORKING NEAR EXISTING UTILITIES. VERIFY THE LOCATION AND CONDITION OF UTILITIES PRIOR TO CONSTRUCTION.
6. INSPECTIONS - NOTIFY OWNER REPRESENTATIVE AND APPROPRIATE AGENCY REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE PRIOR TO REQUIRED GOVERNING AGENCY INSPECTION.
7. QUANTITIES INDICATED IN DRAWINGS ARE PROVIDED AS A COURTESY ONLY. VERIFY QUANTITIES SHOWN BY CONDUCTING A INDEPENDENT QUANTITY TAKE OFF.
8. OWNER AND LANDSCAPE ARCHITECT WILL DECIDE QUESTIONS RELATING TO INTERPRETATION OF DRAWINGS AND ACCEPTABLE FULFILLMENT OF THE WORK SHOWN IN CONTRACT DOCUMENTS.
9. MAINTAIN PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO THE WORK AT ALL TIMES INCLUDING WEEKENDS AND HOLIDAYS. DISPOSE OF RUBBLE, TRASH, OR DISPOSABLE ITEMS RESULTING FROM DEMOLITION IN A LEGAL, LAWFUL, AND SAFE MANNER TO AN APPROVED DISPOSAL SITE.
10. APPLY PRE-EMERGENT AFTER COMPLETION OF EARTHWORK, LEACHING, BED PREPARATION AND FINE GRADING PRIOR TO TOP DRESS.
11. ALL EXISTING LANDSCAPE AREAS OUTSIDE THE PROJECT AREA THAT ARE DISTURBED BY ANY ACTIVITY UNDER THIS CONTRACT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE OWNER AT THE CONTRACTORS EXPENSE.
12. THE CONTRACTOR SHALL PROVIDE FLAGGED AND/OR STAKED LAYOUT OF ALL PLANTING LOCATIONS FOR REVIEW AND ADJUSTMENT, IF NECESSARY, BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING IRRIGATION OR PLANT PIT EXCAVATIONS.
13. ANY AND ALL PLANTS OR TREES, NOT DESIGNATED TO BE REMOVED, WHICH ARE DISTURBED OR DAMAGED AS A RESULT OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITH A PLANT OF EQUAL OR BETTER QUALITY AND OF THE SAME SIZE AND SPECIES OF THE ORIGINAL EXISTING PLANT UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL FINE GRADE AREAS PRIOR TO PLANTING. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC., FROM THE SITES, FORMING LOW-FLOW CHANNEL FOOTPRINTS AS NOTED ON THE PLANS, BACKFILLING BEHIND BOULDERS ON LOW-FLOW CHANNEL SLOPES, AND ENSURE POSITIVE DRAINAGE.
15. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS, WALLS, UTILITY EQUIPTMENT, ETC.
16. PLANT MATERIAL LOCATIONS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
17. THE IRRIGATION SYSTEM IS TO BE FULLY OPERATIONAL AND EFFECTIVE PRIOR TO THE INSTALLATION OF PLANT MATERIAL.

SHEET INDEX

SHEET	TITLE
L0.1	LANDSCAPE COVER
L1.0	LANDSCAPE PLAN
L2.0	IRRIGATION PLAN
L3.0	LANDSCAPE DETAILS
L4.0-L4.1	IRRIGATION DETAILS

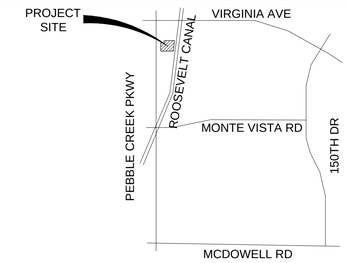
OWNER CONTACT

ARAIZA BROTHERS ENTERPRISES IV LLC
FEDERICOS MEXICAN FOOD
10000 31ST AVE D-405
PHOENIX, AZ 85051
ISIDRO ARAIZA
P: 602-278-3170

LANDSCAPE ARCHITECT

HARRINGTON PLANNING + DESIGN (HP+D)
1921 S. ALMA SCHOOL ROAD, SUITE 204
MESA, ARIZONA 85210
JASON HARRINGTON, RLA, ASLA, ASIC, APWA
(480) 250-0116
JASON@HARRINGTONPLANNINGDESIGN.COM

VICINITY MAP



PROJECT DATA

APN: 501-69-976G
RECORDING NUMBER: 190821243

HARRINGTON PLANNING + DESIGN
1921 S Alma School Rd., Suite 204
Mesa, Arizona 85210
Tel: 480-250-0116
www.HarringtonPlanningDesign.com

REGISTERED LANDSCAPE ARCHITECT CERTIFICATE NO. 44161 JASON E. HARRINGTON 07.20.20 Date Signed ARIZONA U.S.A.

FEDERICOS AT PEBBLECREEK
2455 N PebbleCreek Pkwy
Goodyear, Arizona 85395

REV.	COMMENT	DATE

ISSUE	DATE
PERMIT REVIEW	07.20.20
PRELIM REVIEW	03.19.20

LANDSCAPE PACKAGE

JULY 20, 2020

DRAWN BY:	JEH
CHECK BY:	JEH
PROJ. NO.:	2020-013
CASE NO.:	-

ARIZONA BLUESTAKE CENTER
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LANDSCAPE COVER

L0.1

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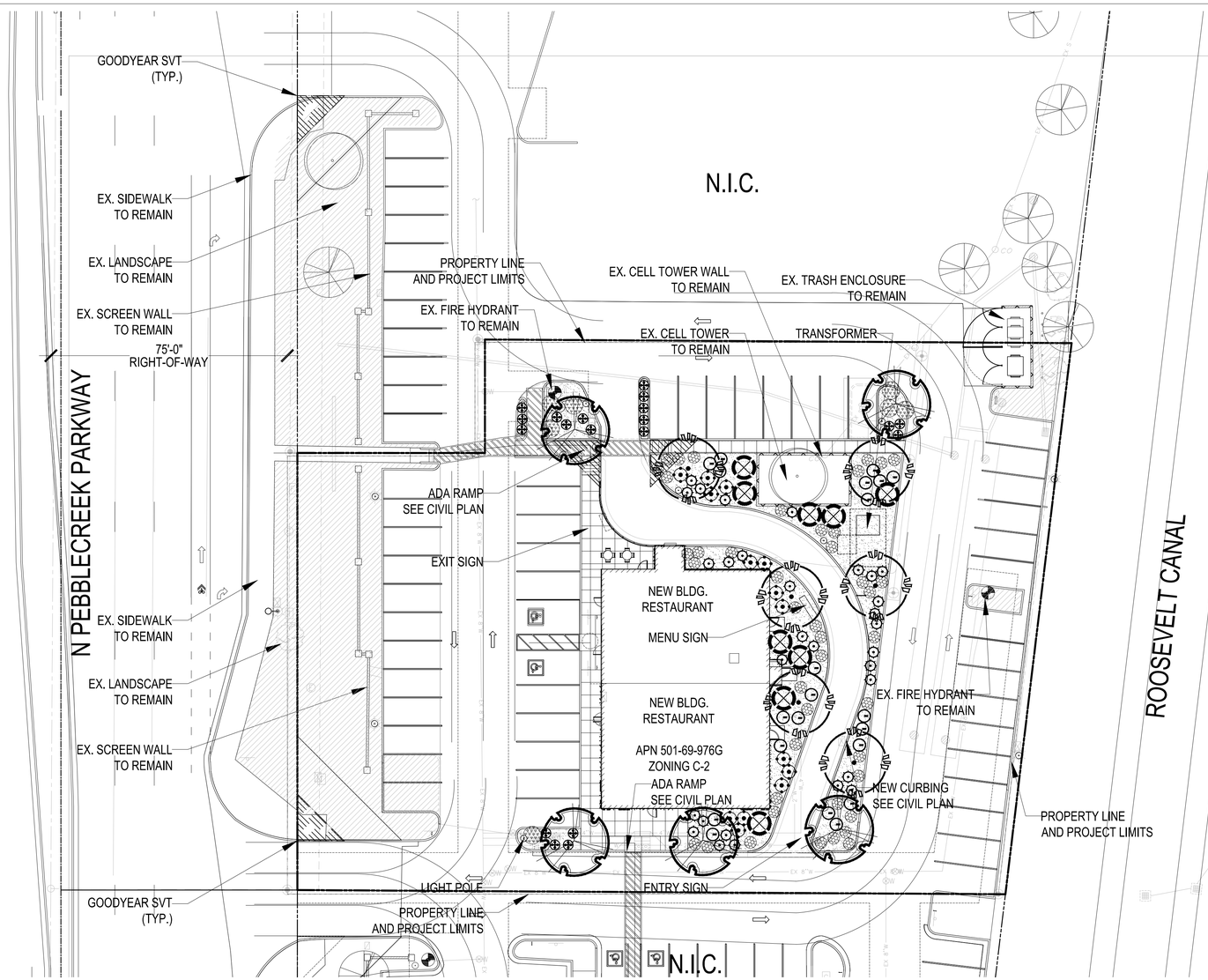

CITY OF GOODYEAR LANDSCAPE NOTES

A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
B. ALL SIGNS, MONUMENT WALLS AND SITE LIGHTING REQUIRE SEPARATE BUILDING APPROVAL.
C. ALL FIRE HYDRANTS SHALL REQUIRE A 7-FOOT CLEARANCE IN ALL DIRECTIONS TO ANY NEW OR EXISTING LANDSCAPE.
D. SUBSTITUTIONS IN TYPE, AND/OR DEVIATIONS IN SIZE OR QUANTITY FROM THE APPROVED LANDSCAPE OR IRRIGATION PLANS SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF GOODYEAR. (CONTACT THE CITY LANDSCAPE TECHNICIAN REGARDING ALL PLANTING AND IRRIGATION SUBSTITUTIONS AT 623-882-7979.)
E. ALL PLANT MATERIAL LOCATED IN THE PUBLIC RIGHTS-OF-WAY OR CITY OF GOODYEAR MAINTAINED AREAS SHALL BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST FOR THE PHOENIX ACTIVE MANAGEMENT AREA.
F. ALL PLANT MATERIAL AND SPECIFICATIONS SHALL CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION CURRENT STANDARDS.
G. THE CONTRACTOR IS TO ENSURE A ONE-FOOT CLEARANCE BETWEEN THE SIDEWALK AND MATURE TREE CANOPY.
H. PLANT LEGEND PROVIDED FOR CONTRACTOR'S CONVENIENCE. CONSTRUCTION PLANS TAKE PRECEDENCE.
I. A 10-FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN A TREE TRUNK AND A UTILITY LINE.
J. ALL EXISTING LANDSCAPE AND IRRIGATION SYSTEMS THAT ARE DESIGNATED TO REMAIN ON THE APPROVED LANDSCAPE PLANS SHALL NOT BE DAMAGED OR DESTROYED DURING CONSTRUCTION. ANY DAMAGE THAT DOES OCCUR DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
K. SIDEWALK AND PAVING CONSTRUCTION THAT ARE PART OF THE LANDSCAPE IMPROVEMENTS SHALL BE IN COMPLIANCE WITH ALL ON-SITE PAVING AND SHALL MEET DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
L. PRIOR TO ACCEPTANCE OF ANY BACKFLOW DEVICE, EACH DEVICE SHALL BE TESTED BY A STATE CERTIFIED TESTER AND THE RESULTS PROVIDED TO THE CITY.
M. UTILITY BOXES, METERS AND VAULTS SHALL BE LOCATED IN THE ROW AND WILL NOT BE PERMITTED IN ANY STREET MEDIAN.
N. "AS-BUILT" DRAWINGS, CERTIFIED BY THE DEVELOPER'S LANDSCAPE ARCHITECT, SHALL BE SUBMITTED AND APPROVED PRIOR TO ISSUANCE OF A BUILDING "CERTIFICATE OF OCCUPANCY."
O. LANDSCAPED AREAS THAT WILL BE MAINTAINED BY CITY PARKS DEPARTMENT SHALL BE CLEARLY IDENTIFIED ON THESE PLANS AND ARE SUBJECT TO THE FOLLOWING REQUIREMENTS.

1. THE DEVELOPER SHALL MAINTAIN AND WARRANTY ALL PLANTED AREAS INCLUDING IRRIGATION SYSTEMS FOR A PERIOD OF TWO YEARS BEGINNING IMMEDIATELY AFTER THE CITY ISSUES THE NOTIFICATION OF APPROVAL FOR THE PROJECT.
2. DURING THE MAINTENANCE AND WARRANTY PERIOD, THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE PROTECTION TO ALL AREAS. ANY DAMAGED PLANTINGS AND OR IRRIGATION SYSTEMS SHALL BE IMMEDIATELY REPAIRED OR REPLACED AT THE DEVELOPER'S EXPENSE.
3. MAINTENANCE SHALL INCLUDE CONTINUOUS OPERATIONS OF WATERING, WEEDING, REMOVAL OF DEAD PLANT MATERIAL, MOWING , ROLLING, FERTILIZING, SPRAYING, INSECT AND PEST CONTROL, RE-SEEDING, REPLACEMENT, AND ALL OTHER MEASURES NECESSARY TO ENSURE GOOD NORMAL GROWTH.
4. WHEN THE TURF HAS ESTABLISHED SUFFICIENT ROOT STRUCTURE AND AN APPROXIMATE HEIGHT OF 3 INCHES, MOWING SHALL BEGIN IMMEDIATELY AND REDUCE IN SAFE INCREMENTS TO A HEIGHT OF 2 INCHES AND SHALL BE MAINTAINED THEREAFTER AT THE HEIGHT OF 2 INCHES.
5. AT THE TERMINATION OF THE MAINTENANCE AND WARRANTY PERIOD, ALL TURF AREAS SHALL BE LIVE, HEALTHY, UNDAMAGED, AND FREE OF INFESTATIONS. ALL AREAS SHALL BE COMPLETELY VOID OF BARREN SPOTS LARGER THAN 3 INCHES BY 3 INCHES.
6. IF ALL PLANTINGS ARE NOT ACCEPTABLE AT THE END OF THE TWO YEAR PERIOD, THE MAINTENANCE AND WARRANTY PERIOD SHALL CONTINUE UNTIL ALL UNACCEPTABLE PLANTINGS ARE REPLACED OR REPAIRED AND THE LANDSCAPING MEETS CITY APPROVAL.
7. AREAS MAY INCLUDE RETENTION BASINS, PARKS, RIGHTS-OF-WAY, AND STREET CENTER MEDIAN LANDSCAPING.

PLANTING MATERIAL LEGEND

TREES	SIZE	NOTES	QTY
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Parkinsonia x 'Desert Museum' Desert Museum Palo Brea Caliper Size: 1.5"	24" Box	*ADWR	6
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LANDSCAPE MATERIALS			
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Existing Landscaped Areas - protect all plants in place. Maintain plants and irrigation during construction.			N/A

*ADWR = Arizona Department of Water Resources Approved Low-Water Use Plant

SITE LANDSCAPE NOTES

1. SHRUBS AND GROUNDCOVER PLANTED WITHIN THE SIGHT VISIBILITY TRIANGLES SHALL HAVE A MATURE HEIGHT OF NOT MORE THAN 24 INCHES. HEIGHT SHALL BE MEASURED FROM THE EDGE OF PAVEMENT, AND TOTAL HEIGHT OF ANY MOUNDING (EDS&PM 7.2.4.b.1).
2. TREES PLANTED WITHIN SIGHT VISIBILITY TRIANGLES SHALL HAVE A CLEAR TRUNK PRUNED TO A HEIGHT OF SEVEN FEET OR GREATER UPON INSTALLATION. HEIGHT SHALL BE MEASURED FROM THE EDGE OF PAVEMENT (EDS&PM 7.2.4.b.2).
3. SEVEN-FOOT MINIMUM CLEARANCE SHALL BE MAINTAINED AROUND THE FIRE HYDRANT FROM LANDSCAPE MATERIAL WITH A MATURE HEIGHT EXCEEDING 6 : PER CITY STANDARD DETAILS (EDS&PM 5.1.6b.3.c).

OWNER CONTACT

ARAIZA BROTHERS ENTERPRISES IV LLC
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10000 31ST AVE D-405
PHOENIX, AZ 85051
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P: 602-278-3170

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MESA, AZ 85210
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(480) 250-0116
JASON@HARRINGTONPLANNINGDESIGN.COM

SITE ADDRESS

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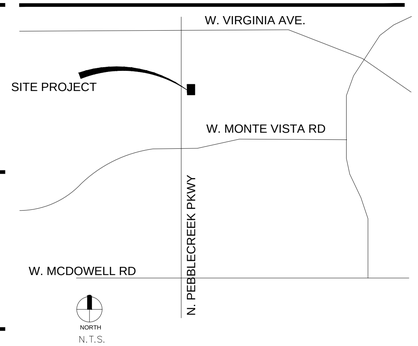
GOODYEAR, AZ 85395

VICINITY MAP



LANDSCAPE CALCULATIONS CITY OF GOODYEAR

LANDSCAPE AREA TOTAL:	4,390 S.F. NOT INC. DUST CONTROL.
LANDSCAPE AREA REQUIRED:	4,390 S.F.
LANDSCAPE AREA PROVIDED:	4,390 S.F.
TREE SIZE CALCULATION (50% 24" BOX OR LARGER):	11 OF 12 100%

THIS PLAN SHEET DOES NOT HAVE ANY LANDSCAPE AREAS THAT WILL BE MAINTAINED BY THE CITY OF GOODYEAR.

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PROJ. NO.:	2020-013
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NORTH
0 10 20 40

LANDSCAPE PLAN
L1.0
2 of 6

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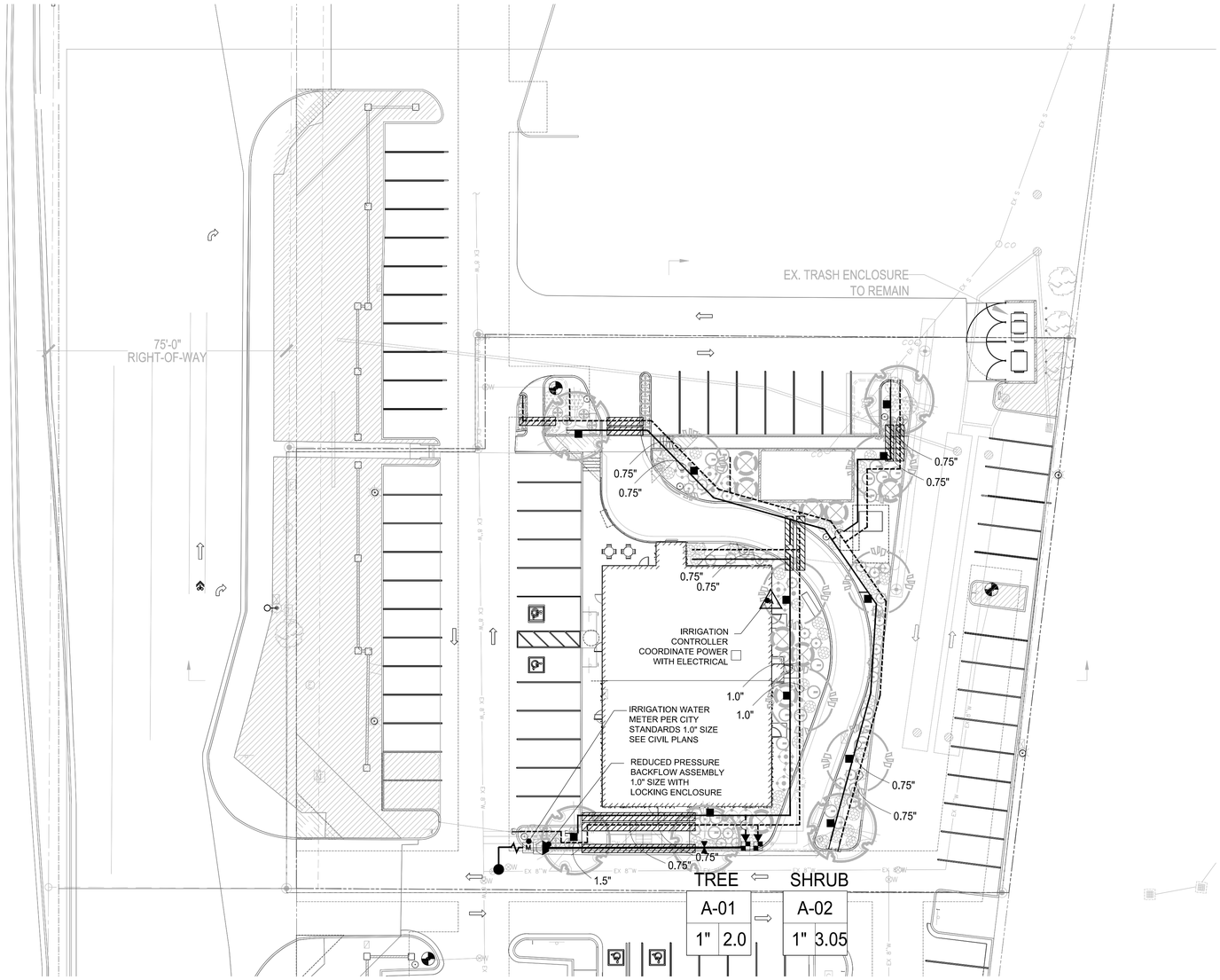

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SYSTEM DESIGNED USING A RESIDUAL PRESSURE OF 70 PSI

SYMBOL

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	EMITTER - MP	BOWSMITH 1.0 GPH 6 PORT (2 PER TREE) GROUPS OF SHRUBS WITHIN 6'.
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NORTH

0 10 20 40

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IRRIGATION PLAN

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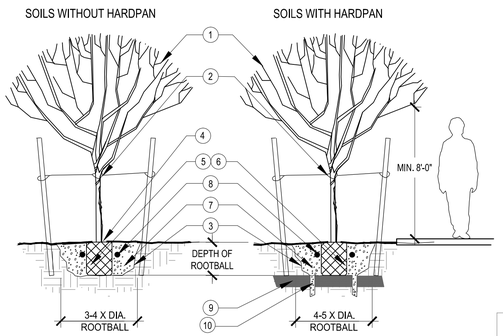
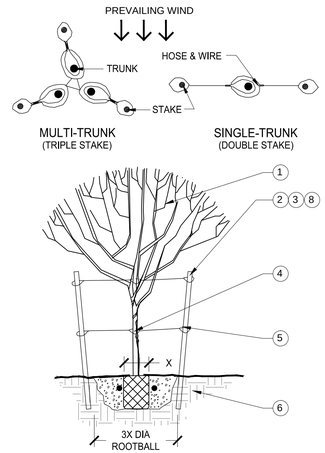


1. TREE, REF PLANTING LEGEND
2. TREE STAKE, REF. STAKING DETAIL
3. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES.
4. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE
5. PLACE ROOTBALL ON UNDISTURBED SOIL
6. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLED WITH MINIMAL DISTURBANCE)
7. BACKFILL: PER SOIL AMENDMENT MIX OR NATIVE MATERIAL IF NONE DESCRIBED
8. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE
9. UNDISTURBED HARDPAN
10. DIG A MIN. OF 3 DRAINAGE CHIMNEY HOLES BESIDE ROOT BALL AND THROUGH HARDPAN

NOTES:
1. TRIM AND MAINTAIN TO PROVIDE A MINIMUM 8'-0" CLEARANCE FROM ADJACENT PATH OR PAVEMENT TO TREE CANOPY.

FERTILIZER TABLET SCHEDULE
AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 5 GAL.,
4 PER 15 GAL.,
6 PER 24"BOX
6 PER 36" BOX OR LARGER

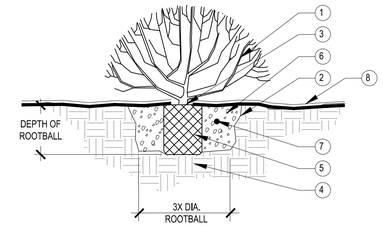
1 TREE PLANTING
SCALE: N.T.S.



1. TREE PLANTING, REF. DETAIL.
2. 2" DIA. LODGEPOLE OR 2" SQ. STAKES DRIVEN VERTICALLY OR SLIGHT ANGLE IN UNDISTURBED SOIL. 8' TALL FOR WIDE GROWING CANOPY TREES, 10' TALL FOR TALL COLUMNAR.
3. PLACE OR CUT STAKES OFF BELOW THE CANOPY TO PREVENT DAMAGE TO BRANCHES.
4. PLACE HOSE AND WIRE 6" ABOVE STRESS POINT OF TREE. NOTCH BACKSIDE OF POLY. USE 5/8" BLACK POLY TUBING 12"-15" LONG MIN.
5. #10 PLASTIC GUYWIRE WRAP TWICE AROUND STAKE AND SECURE.
6. NATIVE SOIL.
7. PLACE HOSE AND WIRE 12" ABOVE SCAFFOLDING BRANCH. USE 5/8" BLACK POLY TUBING 12"-15" LONG MIN.
8. STAKING PER COP MAG SUPPLEMENT 430.10.1. PER CHECKLIST.

NOTES:
1. TYPICALLY LARGE SALVAGED TREES DO NOT NEED STAKING.
2. THE CONTRACTOR MAY USE THEIR OWN DISCRETION IN STAKING TREES OF 52" BOX OR LARGER AND SHOULD REVIEW SITE SPECIFIC CONDITIONS AND EACH TREE TO DETERMINE IF STAKING IS NECESSARY.

2 TREE STAKING DETAIL - 2 TIES
SCALE: N.T.S.

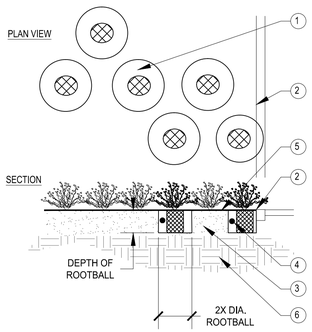


1. PLANT, REF. PLANT LEGEND
2. WALLS OF UNDISTURBED SOIL SHOULD BE SLOPED WITH ROUGH EDGES
3. TOP OF ROOTBALL FLUSH OR SLIGHTLY ABOVE FINISH GRADE
4. PLACE ROOTBALL ON UNDISTURBED SOIL
5. FREE OR CUT CIRCLING ROOTS (UNLESS PLANTS ARE KNOWN TO HAVE SENSITIVE ROOTS HANDLE WITH MINIMAL DISTURBANCE)
6. BACKFILL: PER SPECIFIED SOIL AMENDMENT MIX, OR NATIVE MATERIAL IF NONE DESCRIBED. REMOVE ALL ROCK 1" OR GREATER FROM BACKFILL
7. FERTILIZER TABLET. REFER TO FERTILIZER TABLET SCHEDULE
8. INERT MULCH OR DG. REFER TO PLANT LEGEND

NOTES:
1. PROVIDE ADEQUATE DRAINAGE. REFER TO DETAIL REGARDING SOILS WITH HARDPAN OR CALICHE.

FERTILIZER TABLET SCHEDULE
AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 5 GAL.,
4 PER 15 GAL.,
6 PER 24"BOX
6 PER 36" BOX OR LARGER

3 SHRUB PLANTING
SCALE: N.T.S.

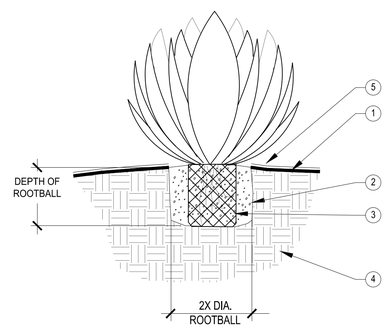


1. GROUNDCOVER / PLANT MATERIAL.
2. EDGE OF PLANTING BED
3. 12" TILL NATIVE SOIL BED OR BACKFILL SOIL MIX: 1 PART MULCH TO 3 PARTS TOPSOIL PLANTING PIT SIZES: 1 GAL. OR 5 GAL.: 2X WIDTH OF ROOTBALL DEPTH-2X WIDTH OF ROOTBALL
4. PLANT FERTILIZER TABLET
5. INSTALL 2" THICK MULCH LAYER. REF. LEGEND FOR MULCH MATERIAL / INERT MATERIAL
6. NATIVE SUBGRADE OR COMPACT FILL TO 85% STANDARD PROCTOR DENSITY

NOTES:
1. REF. PLAN FOR DESIGN AND SPACING.

FERTILIZER TABLET SCHEDULE
AGRIFORM FERTILIZER TABLETS OR EQUAL.
PLACE TABLETS DOWN ALONG PLANT ROOTBALL
1 PER 1 GAL.,
2 PER 2 GAL.,
3 PER 15 GAL.,
4 PER 24"BOX
6 PER 36" BOX OR LARGER

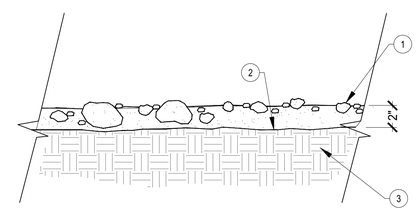
4 GROUNDCOVER PLANTING
SCALE: N.T.S.



1. FINISH GRADE. SLOPE AWAY FROM BASE OF PLANT
2. PLANTING PIT TO BE AS DEEP AS ROOTS
3. BACKFILL TO BE NATIVE SOIL TREATED WITH SOIL SULFUR. HAND TAMP IN PLACE. WATER ONLY AT TIME OF PLANTING
4. NATIVE SOIL. REMOVE ROCK 1" OR LARGER FROM BACKFILL
5. INERT MULCH OR DG. REFER TO LEGEND

NOTES:
1. IN AREAS WHERE CALICHE OR HARDPAN OCCURS BENEATH THE ROOTS, BORE THROUGH IT WITH AN 8" DIAMETER HOLE 12" DEEP.
2. PLANT AT SAME LEVEL AS FINISH GRADE OF ORIGINAL SOIL LINE OF BASE OF PLANT.

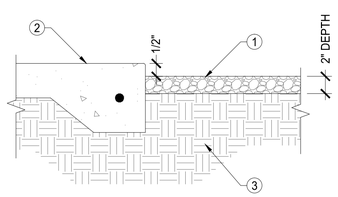
5 ACCENT PLANTING - CONTAINER
SCALE: N.T.S.



1. DECOMPOSED GRANITE PER PLANTING LEGEND
2. FINISH GRADE PER PLANS
3. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERENT CHEMICAL APPLICATION

NOTES:
1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER PLANS.
2. REAPPLY DG TO AREAS THAT SETTLE.WET DG ROCK AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
3. WASH DG FROM ADJACENT PAVEMENTS.
4. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

6 GRANITE INSTALLATION
SCALE: N.T.S.



1. DECOMPOSED GRANITE PER PLANTING LEGEND
2. CONCRETE CURB OR WALK PER CIVIL PLANS
3. ENSURE PLANTING AREAS ARE FREE OF DEBRIS AND WEEDS. COMPACT TO 85% PROCTOR DENSITY. PRE-TREAT FINISH GRADED LANDSCAPE AREAS WITH PRE-EMERENT CHEMICAL APPLICATION

NOTES:
1. COORDINATE FINAL GRADES WITH LANDSCAPE ARCHITECT AND PER CIVIL PLANS.
2. REAPPLY DG TO AREAS THAT SETTLE.
3. WET DG ROCK AFTER INSTALL TO REMOVE DUST AND SETTLE ROCK.
4. WASH DG FROM ADJACENT PAVEMENTS.
5. APPLY POST EMERGENT WEED CONTROL AFTER LANDSCAPE INSTALL COMPLETED.

7 CONCRETE / GRANITE TRANSITION
SCALE: N.T.S.

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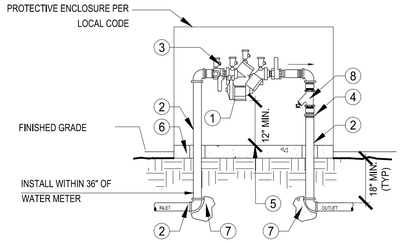
CERTIFICATE NO. 44161
JASON E. HARRINGTON
07.20.20
ARIZONA U.S.A.

FEDERICOS AT PEBBLECREEK
2455 N PebbleCreek Pkwy
Goodyear, Arizona 85395

REV.	COMMENT	DATE

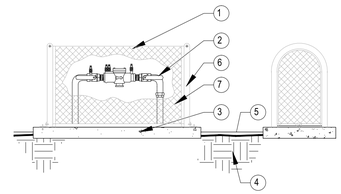


1. APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
2. PIPING SHALL BE TYPE "K" HARD COPPER PIPE AND FITTINGS (3/4" THRU 2-1/2") USING LEAD-FREE SOLDER.
3. BRASS PLUGS ARE REQUIRED ON ALL TEST COCKS.
4. BRASS OR COPPER UNION (INSTALL ON DISCHARGE SIDE).
5. HEIGHT REQUIREMENTS FOR ASSEMBLIES (12" MIN., 24" MAX.).
6. 4" CONCRETE PAD, CLASS B
7. THRUST BLOCKS FOR 2" OR GREATER.
8. BRASS Y-STRAINER, (30 MESH).

NOTES:
1. INSTALL PER LOCAL CODES.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, INSPECTIONS PER GOVERNING CODE.
3. ADAPT INLET/OUTLET TO MAIN AS REQ'D.
4. ASSEMBLY SHALL BE INSTALLED LEVEL AND NOT IN A FLOOD PLAIN.
5. ASSEMBLY SHALL BE TESTED PRIOR TO BEING ACCEPTED.
6. ASSEMBLY SHALL NOT BE INSTALLED ANY CLOSER THAN 18" FROM A WALL OR OBSTRUCTION, (IF TEST COCKS FACE THE WALL, OR 12" FROM A WALL IF TEST COCKS FACE AWAY).
7. CONCRETE SUPPORT PAD SHALL BE A MINIMUM OF 4" LARGER IN ALL DIMENSIONS THAN ENCLOSURE.
8. FINISHED GRADE UNDERNEATH ASSEMBLY SHALL BE AT 95% COMPACTION.
9. CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN PIPE SIZE.

1 BACKFLOW PREVENTER

SCALE: N.T.S.

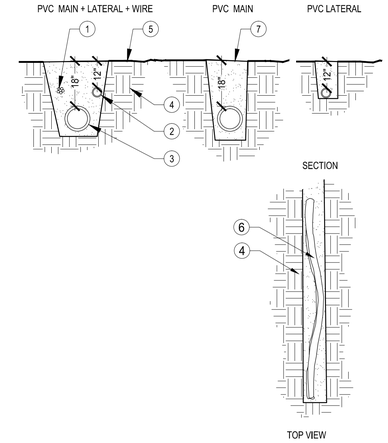


1. METAL BACKFLOW ENCLOSURE, PAINT PER OWNER DIRECTION.
2. BACKFLOW PREVENTER.
3. 4" CONCRETE PAD, CLASS B (2000 PSI), EXTEND 4" AROUND ENCLOSURE.
4. COMPACT SOIL AROUND BACKFLOW ENCLOSURE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. TUBE STEEL FRAME,
7. EXPANDED METAL, #12 GAUGE, SIDES AND TOP.

NOTES:
1. CONCRETE PAD SHALL BE SET PARALLEL W/ GRADE.
2. TEFLON SEAL ALL THREAD JOINTS.
3. SET EYEBOLT WITH BOTTOM OF CIRCLE FLUSH WITH CONCRETE BASE THEN EYEBOLT CANNOT BE TURNED WHEN BRACKET IS IN PLACE.
4. BOLT BRACKET TO ENCLOSURE ON ENDS OR BOTH SIDES. USE 1/4"X 1 1/4" TAMPER-PROOF BOLTS WITH HEX NUTS AND WASHERS PROVIDED.
5. WELD ENCLOSURE SOLID AT ALL JOINTS.
6. TOOL EXPOSED CONCRETE EDGES TO $\frac{3}{4}$" RADIUS.
7. MIN. CLEARANCE INSIDE CAGE TO BE 6".

2 BACKFLOW PREVENTER ENCLOSURE

SCALE: N.T.S.

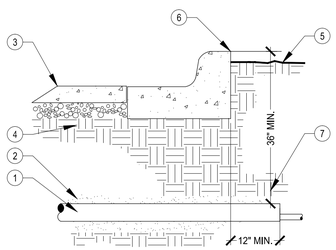


1. CONTROL WIRE BUNDLE, TAPE AT 10' INTERVALS.
2. PVC LATERAL LINE.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. SNAKE PVC PIPE IN TRENCHES.
7. COMPACT TRENCH BACKFILL IN 6" LIFTS. DENSITY TO MATCH ADJACENT SOIL CONDITIONS.

NOTES:
1. INSTALL 120 VOLT WIRING IN CONDUIT, PER LOCAL CODES.
2. SLEEVE LINES UNDER PAVING.
3. LOOP WIRE BUNDLES (20" MIN.) AT CHANGES IN TRENCH DIRECTION.
4. PROVIDE PIPE DETECTION TAPE FOR MAINLINE TRENCHES.
5. MAKE WIRE CONNECTION AND SPLICES WITH WATER PROOF CONNECTORS PER MFG. RECOMMENDATIONS.
6. BACKFILL OF PIPE TRENCHES SHALL HAVE NO ROCK 1" IN SIZE OR LARGER.
7. PROVIDE 2" SAND BEDDING ALL AROUND PIPE IF ROCKY SOILS PRESENT.

3 IRRIGATION TRENCH

SCALE: N.T.S.

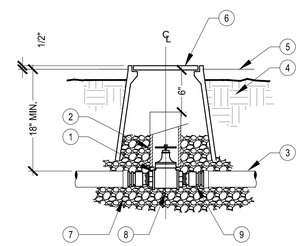


1. SCH. 40 PVC SLEEVE. TWICE DIAMETER OF SERVICE PIPE, SEE SLEEVE/PIPE SCHEDULE.
2. WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS.
3. PAVING.
4. COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. DISCRETELY PAINT OR MARK EDGE OF PAVING, CURB, OR WALK AT SLEEVE LOCATIONS.
7. 36" MIN. DEPTH OR PER LOCAL CODE. EXTEND SLEEVES 12" BEYOND EDGES.

NOTES:
1. CAP SLEEVES UNTIL USE.
2. MULTIPLE SLEEVES REQUIRE 4" SEPARATION WITHIN SAME SLEEVE TRENCH.
3. PROVIDE SEPARATE WATER LINE AND WIRE SLEEVES AS REQUIRED. NO WIRES IN WATER SLEEVES.

4 IRRIGATION SLEEVE

SCALE: N.T.S.

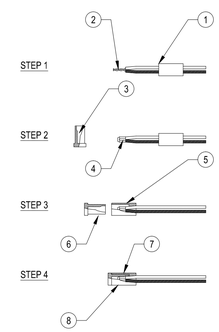


1. THREADED BRONZE GATE VALVE WITH SOLID WEDGE, NON-RISING STEM PER LEGEND.
2. PVC CL 200 PIPE (LENGTH AS REQUIRED), 6-INCH DIA.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF.
7. $\frac{3}{8}$" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12").
8. PROVIDE THRUST BLOCK FOR VALVES 2" OR LARGER.
9. SCH 80 PVC COUPLING, 2 PLS.

NOTES:
1. SET VALVE BOX $\frac{1}{4}$" ABOVE FINISHED GRADE.
2. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
5. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

5 GATE VALVE ASSEMBLY

SCALE: N.T.S.

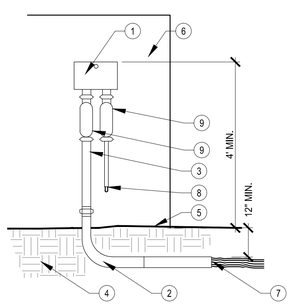


1. SLIP BASE SOCKET OVER END OF WIRES
2. STRIP WIRES $\frac{3}{4}$" FROM ENDS, TWIST ENDS TOGETHER
3. APPLY SEALER TO OUTSIDE OF SEALING PLUG, FILL CAVITY WITH SEALER.
4. PLACE CRIMP SLEEVE OVER WIRE ENDS, CRIMP SLEEVE AND BEND OVER EXCESS WIRE
5. PLACE BASE SOCKET OVER WIRE END SNUG TO CRIMP SLEEVE
6. PUSH SEALING PLUG INTO BASE SOCKET
7. PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION
8. RAINBIRD PEN-TITE WIRE CONNECTOR APPROVED EQUAL

NOTES:
1. FOR WIRE SIZES NO. 14, NO. 12, AND NO. 10

6 IRRIGATION WIRE CONNECTIONS

SCALE: N.T.S.



1. WALL MOUNTED CONTROLLER. PROVIDE LOCKING ENCLOSURE. LOCATE PER PLAN.
2. PVC SCH 40 ELL SWEEP FOR ELECTRICAL CONDUIT
3. STEEL CONDUIT.
4. COMPACT SOIL AROUND CONTROLLER CONDUIT TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. WALL SURFACE.
7. CONTROL VALVE WIRES AND SENSOR WIRE FEED.
8. 120V POWER AND GROUND SOURCE. COORDINATE WITH ELECTRICAL CONTRACTOR.
9. J-BOX.

NOTES:
1. INSTALL WIRING PER LOCAL CODE AND MFG. RECOMMENDATIONS.
2. PROVIDE LIGHTNING PROTECTION AND GROUNDING FOR CONTROLLER.
3. PROVIDE LOCK FOR CONTROLLER ENCLOSURE.
4. PLACE WEATHERPROOF COPY OF CONTROLLER SCHEDULE INSIDE ENCLOSURE.
5. ALLOW 3 FT. CLEARANCE IN FRONT OF CONTROLLER ENCLOSURE DOOR FOR ACCESS.
6. PROVIDE WATERPROOF SEALANT FOR ALL CONTROLLER OPENINGS.
7. PAINT ENCLOSURE PER LEGEND OR OWNER DIRECTION.

7 CONTROLLER, WALL MOUNT

SCALE: N.T.S.

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REGISTERED LANDSCAPE ARCHITECT
CERTIFICATE NO. 44161
JASON E. HARRINGTON
Date Signed 07.20.20
ARIZONA U.S.A.

FEDERICOS AT PEBBLECREEK
2455 N PebbleCreek Pkwy
Goodyear, Arizona 85395

REV.	COMMENT	DATE

ISSUE	DATE
PERMIT REVIEW	07.20.20
PRELIM REVIEW	03.19.20

LANDSCAPE PACKAGE

JULY 20, 2020

DRAWN BY:	JEH
CHECK BY:	JEH
PROJ. NO.:	2020-013
CASE NO.:	-

IRRIGATION DETAILS

L4.0

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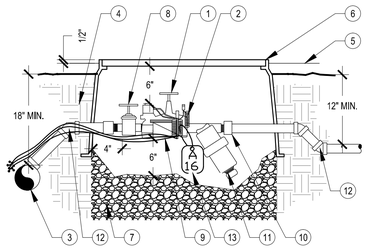
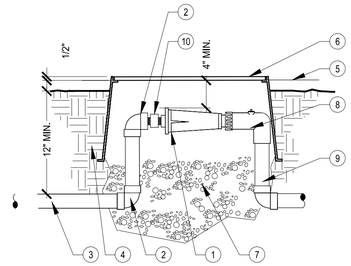


1. ELECTRIC REMOTE VALVE PER LEGEND.
2. EPOXY FILLED CYLINDER WIRE CONNECTORS.
3. PVC SCH 40 MAINLINE.
4. COMPACT SOIL AROUND CONTROL VALVE PIT ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. TAN COLOR IN DG, GREEN IN TURF.
7. 3/8" WASHED PEA GRAVEL SUMP, 2 CU. FT MIN.
8. PVC ISOLATION BALL VALVE.
9. CONTROLLER WIRE, TAPE AND BUNDLE AT 10' INTERVALS.
10. PVC SCH 80 UNION.
11. WYE FILTER (#150 MESH) WITH STAINLESS STEEL SCREEN, POSITION TO ONE SIDE AND DOWNWARD.
12. PVC SCH 80 FITTINGS.
13. VALVE TAG. STANDARD VALVE I.D. AND LETTER TO CORRESPOND TO CONTROLLER AND VALVE NUMBER. AFFIX TO CONTROL WIRE W/ ELECTRICAL WIRE TIE.

NOTES:
1. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP WIRE AROUND PIPE 15 TIMES).
2. SET VALVE BOX PARALLEL W/ GRADE.
3. SEAL THREADED JOINTS WITH TEFLON .
4. DO NOT REST VALVE BOX ON MAIN LINE.
5. LOCATE ONLY 1 VALVE ASSEMBLY PER VALVE BOX.
6. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
7. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

1 DRIP VALVE ASSEMBLY

SCALE: N.T.S.

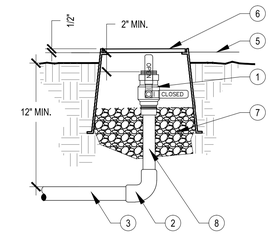


1. PRESET PRESSURE REGULATOR, 30 PSI OR PER LEGEND.
2. PVC SCH 80 FITTINGS.
3. PVC SCH 40 MAINLINE / LATERAL.
4. COMPACT SOIL AROUND PRESSURE REGULATOR ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. 12" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.
7. 3/8" WASHED PEA GRAVEL SUMP, 1 CU. FT. (12"X12"X12") MIN.
8. PCV ELL 3/4" HT SWIVEL W/ SCHRADER PRESSURE CHECK VALVE.
9. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
10. PVC SCH 80 UNION.

NOTE:
1. SET VALVE BOX PARALLEL WITH GRADE.
2. SEAL THREADED JOINTS WITH TEFLON.
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY 1 PRESSURE REGULATOR PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

2 PRESSURE REGULATOR - DRIP VALVE

SCALE: N.T.S.

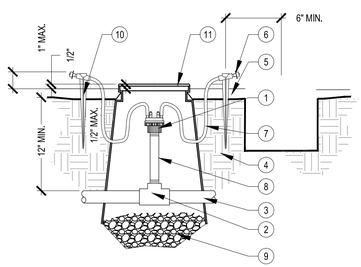


1. BRONZE 3/4" THREADED FULL-PORT BALL VALVE
2. PVC SCH 80 FITTINGS
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND
4. COMPACT SOIL AROUND FLUSH CAP ASSEMBLY TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL
5. FINISH GRADE / TOP OF DG.
6. VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. 10" MIN. SIZE. COLOR TO BE TAN IN DG, GREEN IN TURF
7. 3/8" WASHED PEA GRAVEL SUMP, 1 CU. FT MIN.
8. PVC SCH 80 1/2" NIPPLE RISER (LENGTH AS REQUIRED)

NOTES:
1. SET VALVE BOX PARALLEL W/ GRADE.
2. SEAL THREADED JOINTS WITH TEFLON .
3. DO NOT REST VALVE BOX ON MAIN LINE.
4. LOCATE ONLY ONE FLUSH CAP PER VALVE BOX.
5. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
6. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

3 DRIP BALL VALVE FLUSH CAP

SCALE: N.T.S.

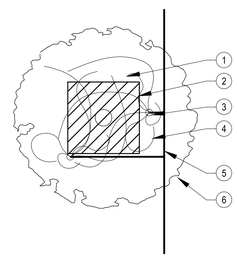


1. THREADED PRESSURE COMPENSATING EMITTER. SEE LEGEND FOR SIZE.
2. PVC SCH 80 FITTING, ELL OR TEE.
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND.
4. COMPACT SOIL AROUND EMITTER TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. FINISH GRADE / TOP OF DG.
6. BUG CAP.
7. 1/4" DISTRIBUTION TUBING. LOOP FOR A 5 FT. MAXIMUM LENGTH. NO KINKS IN TUBING.
8. PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED).
9. 3/8" WASHED PEA GRAVEL SUMP, 1/2 CU. FT MIN.
10. 1/4" DISTRIBUTION TUBE EMITTER STAKE.
11. 6" VALVE BOX WITH LOCKING COVER, CARSON, AMETEK, OR APPROVED EQUAL. COLOR TO BE TAN IN DG, GREEN IN TURF.

NOTES:
1. MULTI PORT EMITTER FOR TREES AND MASSED PLANTS ONLY.
2. TEFLON SEAL ALL THREAD JOINTS.
3. ON SLOPE CONDITIONS, PLACE EMITTER ON UPHILL SIDE OF PLANT.
4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
5. SPACE EMITTER TUBING EQUALLY AROUND DRIP LINE OF TREE.
6. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF
7. LATERALS.
8. PROVIDE SUPPORT BRICKS TO VALVE BOX AS NECESSARY.
9. PROVIDE STAINLESS STEEL FASTENERS FOR LOCKING COVER.

4 MULTIPORT EMITTER WITH DISTRIBUTION TUBING

SCALE: N.T.S.

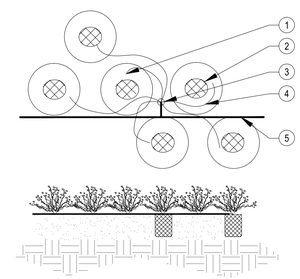


1. EMISSION POINT (TYP.)
2. PLANT ROOTBALL (TYP.)
3. MULTI-PORT EMITTER, SEE EMITTER DETAIL.
4. DISTRIBUTION TUBE, MAXIMUM LENGTH 5 FT. (TYP.) DO NOT KINK TUBING
5. LATERAL PIPE, SCH 40 PVC OR PER IRRIGATION LEGEND
6. TREE CANOPY

NOTES:
1. MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE 5 FEET.
2. PLACE EMISSION POINT AT EDGE OF ROOTBALL ON UPHILL SIDE OF PLANT.
3. ADJUST EMITTER LOCATIONS AS DRIPLINE OF TREE INCREASES WITH GROWTH.
4. PLACE 50% OF DISTRIBUTION TUBES OUTSIDE OF TREE ROOTBALL DURING INSTALL FOR FUTURE GROWTH.

5 EMITTER LOCATIONS - TREES

SCALE: N.T.S.

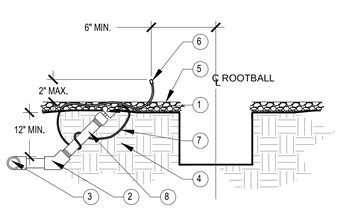


1. EMISSION POINT (TYP.).
2. PLANT ROOTBALL (TYP.).
3. MULTI-PORT EMITTER, SEE EMITTER DETAIL.
4. DISTRIBUTION TUBE, MAXIMUM LENGTH 5 FT. (TYP.) DO NOT KINK TUBING.
5. LATERAL PIPE, SCH 40 PVC OR PER IRRIGATION LEGEND.

NOTES:
1. MORE THAN ONE SHRUB MAY BE WATERED FROM A SINGLE MULTI-PORT EMITTER.
2. MAXIMUM LENGTH OF DISTRIBUTION TUBING SHALL BE 5 FEET.
3. IF MORE THAN ONE DISTRIBUTION TUBE USED PER SHRUB, EQUALLY SPACE AROUND PLANT ROOTBALL.
4. PLACE EMISSION POINT AT EDGE OF ROOTBALL ON UPHILL SIDE OF PLANT.

6 EMITTER LOCATIONS - SHRUBS

SCALE: N.T.S.



1. PRESSURE COMPENSATING EMITTER, THREADED. SEE LEGEND FOR SIZE
2. PVC SCH 80 FITTING, ELL OR TEE
3. PVC SCH 40 LATERAL OR PER IRRIGATION LEGEND
4. COMPACT SOIL AROUND EMITTER TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL
5. FINISH GRADE / TOP OF DG
6. BUG CAP
7. DISTRIBUTION TUBING. LOOP AROUND PVC FOR A 5 FT MAXIMUM LENGTH. DO NOT KINK TUBING
8. PVC SCH 80 1/2" NIPPLE RISER, THREADED (LENGTH AS REQUIRED)

NOTES:
1. SINGLE PORT EMITTER FOR SHRUBS, ACCENTS, AND GROUND COVERS ONLY.
2. SEAL THREAD JOINTS WITH TEFLON .
3. SLOPE CONDITIONS: PLACE EMITTER ON UPHILL SIDE OF PLANT.
4. DO NOT DISTURB ROOTBALL WITH PVC PIPE.
5. INSTALL EMITTERS ONLY AFTER SYSTEM FLUSH OF
6. LATERALS.

7 SINGLE PORT EMITTER W/ DISTRIBUTION TUBING

SCALE: N.T.S.

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