LANDSCAPE PLAN SPECIFICATIONS

PART 1 - GENERAL

- 1.1 SUMMARY
- A. This section includes landscape procedures for the Project including all labor, materials, and installation necessary, but not limited to, the following:
- 1. Site Conditions
- 2. Guarantees
- 3. Maintenance
- 4. Soil Amendments
- 5. Fine Grading
- 6. Landscape Edging
- 7. Furnish and Installing Plant
- 8. Turf Planting
- 9. Weed Barrier
- 1.2 SITE CONDITIONS
- A.Examination: Before submitting a Bid, each Contractor shall carefully examine the Contract Documents; shall visit the site of the Work; shall fully inform themselves as to all existing conditions and limitations; and shall include in the Bid the cost of all items required by the Contract Documents are at a variance with the applicable laws, building codes, rules, regulations, or contain obvious erroneous or uncoordinated information, the Contractor shall promptly notify the Project Representative and the necessary changes shall be accomplished by Addendum.
- B. Protection: Contractor to conduct the Work in such a manner to protect all existing underground utilities or structures. Contractor to repair or replace any damaged utility or structure using identical materials to match existing at no expense to the Owner. C. Irrigation System: Do not begin planting until the irrigation system is completely installed, is adjusted for full coverage and is
- completely operational.
- 1.3 PERMITS
- A.Blue Stake/ Dig Line: When digging is required, "Blue Stake" or "Dig Line" the work site and identify the approximate location of all known underground utilities or structures.
- 1.4 PLANT DELIVERY, QUALITY, AND AVAILABILITY
- A. Unauthorized substitutions will not be accepted. If proof is submitted that specific plants or plant sizes are unobtainable, written substitution requests will be considered for the nearest equivalent plant or size. All substitution requests must be made in writing and preferably before the bid due date.
- 1.5 FINAL INSPECTION
- A. All plants will be inspected at the time of Final Inspection prior to receiving a Landscape Substantial Completion for conformance to specified planting procedures, and for general appearance and vitality. Any plant not approved by the Project Representative will be rejected and replaced immediately.
- 1.6 LANDSCAPE SUBSTANTIAL COMPLETION
- A.A Substantial Completion Certificate will only be issued by the Project Representative for "landscape and irrigation" in their entirety. Substantial Completion will not be proportioned to be designated areas of a project.
- 1.7 MAINTENANCE
- A. Plant Material: The Contractor is responsible to maintain all planted materials in a healthy and growing condition for 30 days after receiving a Landscape Substantial Completion at which time the Guarantee period commences. This maintenance is to include mowing, weeding, cultivating, fertilizing, monitoring water schedules, controlling insects and diseases, re-guying and staking, and all other operations of care necessary for the promotion of root growth and plant life so that all plants are in a condition satisfactory at the end of the guarantee period. The Contractor shall be held responsible for failure to monitor watering operations and shall replace any and all plant material that is lost due to improper application of water.
- 1.8 GUARANTEE
- A.Guarantee: A guarantee period of one year shall begin from end of maintenance period and final acceptance for trees, shrubs, and ground covers. All plants shall grow and be healthy for the guarantee period and trees shall live and grow in acceptable upright position. Any plant not alive, in poor health, or in poor condition at the end of the guarantee period will be replaced immediately. Any plant will only need to be replaced once during the guarantee period. Contractor to provide documentation showing where each plant to be replaced is located. Any outside factors, such as vandalism or lack of maintenance on the part of the Owner, shall INSTALLATION not be part of the guarantee
- PART II PRODUCTS
- 2.1 LANDSCAPE MATERIALS
- A. Tree Staking: All trees shall be staked for one year warranty period. All trees not plumb shall be replaced. Staked trees shall use vinyl tree ties and tree stakes two (2) inch by two (2) by eight (8) foot common pine stakes used as shown on the details.
- B. Tree Wrap: Tree wrap is not to be used.
- C. Mulch/Rock: See Plans. All planter beds to receive a minimum 3" layer for trees, shrubs, and perennials and 1" for groundcovers. D.Weed Barrier: DeWitt 5 oz. weed barrier fabric. Manufactured by DeWitt Company, dewittcompany.com or approved equal.
- E. Tree, Shrub, and Grass Backfill Mixture; Backfill mixture to be 75% native soil and 25% topsoil, thoroughly mixed together prior to placement. F. Topsoil: Required for turf areas, planter beds and Backfill Mixture. Acceptable topsoil shall meet the following standards:
- a. PH: 5.5-7.5
- b. EC (electrical conductivity): < 2.0 mmhos per centimeter
- c. SAR (sodium absorption ration): < 3.0
- d. % OM (percent organic matter): >1%
- e. Texture (particle size per USDA soil classification): Sand <70%; Clay < 30%; Silt < 70%, Stone fragments (gravel or any soil particle greater than two (2) mm in size) < 5% by volume.
- G.Turf Sod: All sod shall be 18 month old as specified on plans (or approved equal) that has been cut fresh the morning of installation. Only sod that has been grown on a commercial sod farm shall be used. Only use sod from a single source.
- H.Landscape Curb Edging: six (6) inches by four (4) inches extruded concrete curb made up of the following materials:
- a. Washed mortar sand free of organic material.
- b. Portland Cement (see concrete spec. below for type)
- c. Reinforced fiber Specifically produced for compatibility with aggressive alkaline environment of Portland cement-based composites.
- d. Only potable water for mixing.
- I.Landscape Metal Edging: 5.5" steel edging with 18" dowels into the ground for stabilization.
- PART III EXECUTION
- 3.1 GRADING
- A. Topsoil Preparation: Grade planting areas according to the grading plan. Eliminate uneven areas and low spots. Provide for proper grading and drainage.
- B. Topsoil Placement: Slope surfaced away from building at two (2) percent slope with no pockets of standing water. Establish finish grades of one (1) inches for planters below grade of adjacent paved surfaced. Provide neat, smooth, and uniform finish grades. Remove surplus sub-soil and topsoil from the site.
- C. Compaction: compaction under hard surface areas (asphalt paths and concrete surfaces) shall be ninety-five (95) percent. Compaction under planting areas shall be between eighty-five (85) and ninety (90) percent.
- 3.2 TURF GRADING
- A. The surface on which the sod is to be laid shall be firm and free from footprints, depressions, or undulations of any kind. The surface shall be free of all materials larger than 1/2" in diameter.
- B. The finish grade of the topsoil adjacent to all sidewalks, mow-strips, etc. prior to the laying of sod, shall be set such that the crown of the grass shall be at the same level as the adjacent concrete or hard surface. No exceptions. 3.3 PLANTING OPERATIONS
- A.Review the exact locations of all trees and shrubs with the Project Representative for approval prior to the digging of any holes. Prepare all holes according to the details on the drawings.
- B. Water plants immediately upon arrival at the site. Maintain in moist condition until planted.
- C. Before planting, locate all underground utilities prior to digging. Do not place plants on or near utility lines.
- D.The tree planting hole should be the same depth as the root ball, and two times the diameter of the root ball. E. Trees must be placed on undisturbed soil at the bottom of the planting hole
- F. The tree hole depth shall be determined so that the tree may be set slightly high of finish grade, 1" to 2" above the base of the trunk flare, using the top of the root ball as a guide. G.Plant immediately after removal of container for container plants

PROJECT NUN

AZ22004

DATE

XX-XX-XX

PLAN INFORMATION

811 BLUE STAKES OF ARIZONA UTILITY NOTIFICATION CENTER, INC

www.bluestakes.org

1-800-782-5348

GRAPHIC SCALE: 1" = 150'

IF DATE

NO.

3/20/2023

REVISION

XXXX

- H.Set tree on soil and remove all burlap, wire baskets, twine, wrappings, etc. before beginning and backfilling operations. Do not u planting stock if the ball is cracked or broken before or during planting operation.
- I. Apply vitamin B-1 root stimulator at the rate of one (1) tablespoon per gallon. J. Upon completion of backfilling operation, thoroughly water tree to completely settle the soil and fill any voids that may have occurred. Use a watering hose, not the area irrigation system. If additional prepared topsoil mixture needs to be added. It should be
- a courser mix as required to establish finish grade as indicated on the drawings. K. The amount of pruning shall be limited to the minimum necessary to remove dead or injured twigs and branches. All cuts, scars, and bruises shall be properly treated according to the direction of the Project Representative. Proper pruning techniques shall be
- used. Do not leave stubs and do not cut the leader branch. Improper pruning shall be cause for rejection of the plant material. L. Prepare a watering circle of 2' diameter around the trunk. For conifers, extend the watering well to the drip line of the tree canopy. Place mulch around the planted trees.
- 4. TURF SOD LAYING
- A.Top Soil Amendments: Prior to laying sod, commercial fertilizer shall be applied and incorporated into the upper four (4) inches of the topsoil at a rate of four pounds of nitrogen per one thousand (1,000) square feet. Adjust fertilization mixture and rate of application as needed to meet recommendations given by topsoil analysis. Include other amendments as required.
- B. Fertilization: Three weeks after sod placement fertilize the turf at a rate of ½ pound of nitrogen per 1000 square feet. Use fertilizer specified above. Adjust fertilization mixture and rates to meet recommendations given by topsoil analysis.
- C.Sod Availability and Condition: Sod is to be delivered to the site in good condition. It is to be inspected upon arrival and installed within 24 hours. Sod is to be moist and cool to ensure that decomposition has not begun and is to be free of pests, diseases, or blemishes. The Contractor shall satisfy himself as to the existing conditions prior to any construction. The Contractor shall be fully responsible for furnishing and laying all sod required on the plans. He shall furnish new sod as specified above and lay it so as too completely satisfy the intent and meaning of the plans and specification at no extra cost to the owner. In the case of any discrepancy in the amount of sod to be removed or amount to be used, it shall be the Contractor's responsibility to report such to the Project Representative prior to commencing the work.
- D.Sod Laying: The surface upon which the new sod to be laid will be prepared as specified in the detail and be lightly watered before laying. Areas where sod is to be laid shall be cut trimmed, or shaped to receive full width sod (minimum twelve (12) inches). No partial strip or pieces will be accepted.
- E. Sod shall be tamped lightly as each piece is set to ensure that good contact is made between edges and also the ground. If voids or holes are discovered, the sod piece(s) is (are) to be raised and topsoil is to be used to fill in the areas until level. Sod laid on any sloped areas shall be anchored with wooden dowels or other materials which are accepted by the grass sod industry. F. Sod shall be rolled with a roller that is at least 50% full immediately after installation to ensure the full contact with soil is made.
- G.Apply water directly after laying sod. Rainfall is not acceptable.
- H.Watering of the sod shall be the complete responsibility of the Contractor by whatever means necessary to establish the sod in an acceptable manner to the end of the Maintenance period. If an irrigation system is in place on the site, but for whatever reason, water is not available in the system. It is the responsibility of the Contractor to water the sod by whatever means, until the sod is accepted by the Project Representative.
- I. Protection of the newly laid sod shall be the complete responsibility of the Contractor. The Contractor shall provide acceptable visual barriers, to include barricades set appropriate distances with strings or tapes between barriers, as an indication of new work. The Contractor is to restore any damaged areas caused by others (including vehicular traffic), erosion, etc, until such time as the lawn is accepted by the Owner.
- J. All sod that has not been laid within 24 hours shall be deemed unacceptable and will be removed from the site. 3.5 WEED BARRIER
- A.For the health of the soil and the microorganisms, weed barrier is not recommended. If use is required or requested, do not place in annual or grass areas.
- B. Cut weed barrier back to the edge of the plant rootball.
- C. Overlap rows of fabric min. 6"
- D.Stable fabric edges and overlaps to ground.

END OF SECTION

LANDSCAPE NOTES

- 1. LANDSCAPE CONTRACTOR SHALL HAVE ALL UTILITIES BLUE STAKED PRIOR TO DIGGING. ANY DAMAGE TO
- UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER. 2. DURING THE BIDDING AND INSTALLATION PROCESS, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR
- VERIFYING QUANTITIES OF ALL MATERIALS. IF DISCREPANCIES EXIST, THE PLAN SHALL DICTATE QUANTITIES TO BE USED.
- STANDARDS WITH CONSIDERATION TO INDIVIDUAL SOIL AND SITE CONDITIONS, AND NURSERY CARE AND INSTALLATION INSTRUCTIONS.
- SELECTED PLANTS WILL BE ACCORDING TO THE PLANT LEGEND. IF SUBSTITUTIONS ARE NECESSARY, PROPOSED LANDSCAPE CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO LAYING SOD.
- 5. SHOULD THE SITE REQUIRE ADDITIONAL TOPSOIL, REFER TO SOIL TEST WHEN MATCHING EXISTING SOIL. IF A TCHING SOIL IS NOT LOCATABLE, A 6" DEPTH OF SANDY LOAM TOPSOIL (MIXED PRIOR TO SPREADING WITH 2-OF QUALITY COMPOST) CAN BE INCORPORATED INTO THE EXISTING SOIL USING THE FOLLOWING DIRECTIONS: SCARIFY TOP 6" OF EXISTING SUBSOIL AND INCORPORATE 3" OF NEW COMPOST ENRICHED TOPSOIL SPREAD REMAINING TOPSOIL TO REACH FINISHED GRADE.
- 7. EDGING, AS INDICATED ON PLAN, IS TO BE INSTALLED BETWEEN ALL LAWN AND PLANTER AREAS. ANY TREES LOCATED IN LAWN MUST HAVE A 4-6' TREE RING OF THE SAME EDGING
- 8. IF REQUIRED BY CITY OR OWNER SPECIFIED, DeWitt 5 OZ WEED BARRIER FABRIC TO BE INSTALLED IN ALL PLANTER AREAS EXCEPT UNDER ANNUAL PLANTING AREAS AS SHOWN ON PLAN. WEED BARRIER SHALL BE CUT BACK FROM EACH PLANT TO THE DIAMETER OF THE ROOTBALL.
- 9. ROCK MULCH (INORGANIC MULCH) TO BE APPLIED AT THE FOLLOWING DEPTHS: 3" IN ALL TREE, SHRUB, AND PERENNIAL PLANTER AREAS; ANNUAL PLANTING AREAS AS SHOWN ON PLAN TO RECEIVE 4" OF SOIL AID MATERIAL (ORGANIC MULCH). NO MULCH SHALL BE PLACED WITHIN 12" OF BASE OF TREE AND 6" WITHIN BASE OF SHRUBS AND PERENNIALS.
- 10. A NEW UNDERGROUND, AUTOMATIC IRRIGATION SYSTEM IS TO BE INSTALLED BY CONTRACTOR IN ALL LANDSCAPED AREAS. LAWN AREAS TO RECEIVE AT LEAST 100% HEAD TO HEAD COVERAGE AND PLANTER AREAS TO RECEIVE A FULL DRIP SYSTEM TO EACH TREE AND SHRUB. POINT SOURCE DRIP OR IN-LINE DRIP TUBING TO BE SECURED AT EDGE OF ROOTBALL, NOT AGAINST TRUNK. SEE IRRIGATION PLAN.
- 11. UPON REQUEST, A PLANT GUIDE IS AVAILABLE WITH OUR RECOMMENDATIONS REGARDING WEED BARRIER, PLANT CARE AND MAINTENANCE
- INSTALLER RESPONSIBILITIES AND LIABILITIES 1. THESE PLANS ARE FOR BASIC DESIGN LAYOUT AND INFORMATION. LANDSCAPE CONTRACTOR IS REQUIRED TO USE TRADE KNOWLEDGE FOR IMPLEMENTATION. OWNER ASSUMES NO LIABILITIES FOR INADEQUATE ENGINEERING CALCULATIONS, MANUFACTURER PRODUCT DEFECTS, INSTALLATION OF ANY LANDSCAPING AND COMPONENTS. OR TIME EXECUTION.
- 2. LANDSCAPE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR INSTALLATION OF ALL LANDSCAPING AND IRRIGATION SYSTEMS INCLUDING CODE REQUIREMENTS, TIME EXECUTIONS, INSTALLED PRODUCTS AND MATERIALS.

GRADING AND DRAINAGE REQUIREMENTS

SLOPES, BERMS, AND SWALES.

SWALES, BERMS, OR GRADE

- FEET OF THE FOUNDATION SHOULD DRAIN AWAY FROM THE STRUCTURE WITH A MINIMUM FALL OF 6"
- 2. AS PER CODE, FINISHED GRADE WILL NOT DRAIN ON NEIGHBORING PROPERTIES

600

BACKFILL: WHICHEVER DISTANCE IS GREATER

3. A MINIMUM OF 6" OF FOUNDATION WILL BE LEFT EXPOSED AT ALL CONDITIONS

4. LANDSCAPE CONTRACTOR TO MAINTAIN OR IMPROVE FINAL GRADE AND PROPER DRAINAGE ESTABLISHED BY

5. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY DAMAGED OR IMPROPER WATERFLOW OF ALL

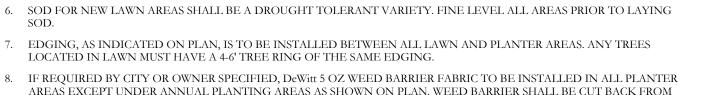
6. DEVICES FOR CHANNELING ROOF RUN-OFF SHOULD BE INSTALLED FOR COLLECTION AND DISCHARGE OF RAINWATER AT A MINIMUM OF 10' FROM THE FOUNDATION, OR BEYOND THE LIMITS OF FOUNDATION WALL

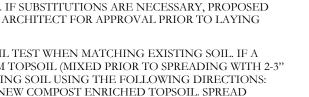
EXCAVATOR, INCLUDING BUT NOT LIMITED TO ANY MAINTENANCE, PRESERVATION, OR EXAGGERATION OF

ROJECT INFORMATIOI

BLOUNT EXCAVATING APACHE JUNCTION, ARIZONA

1. AS PER CODE, ALL GRADING IS TO SLOPE AWAY FROM ANY STRUCTURE. SURFACE OF THE GROUND WITHIN 10'

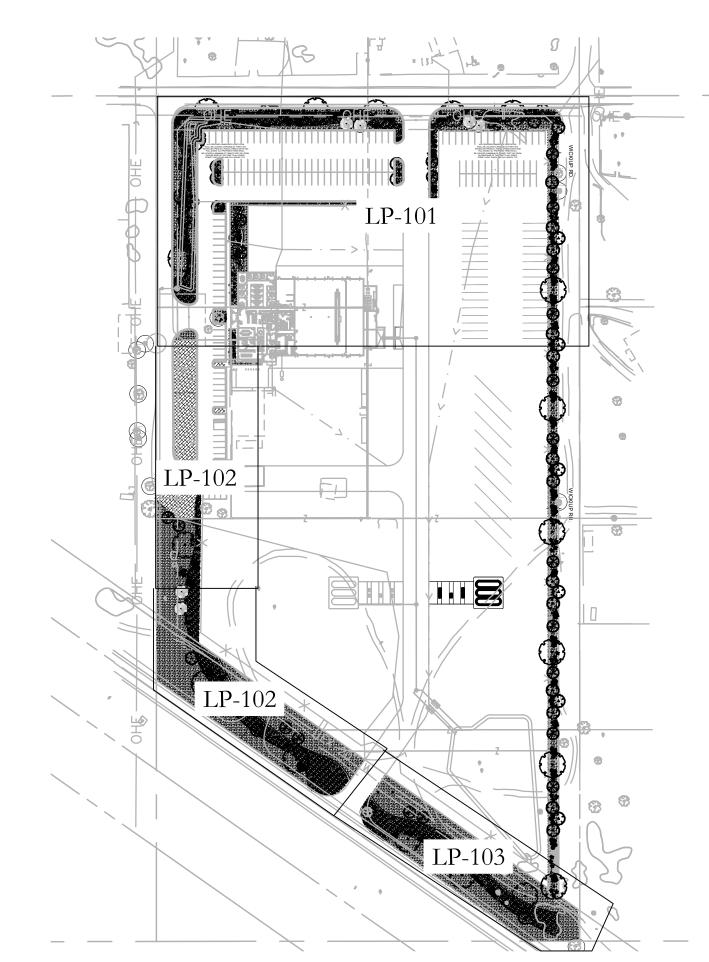




ALL PLANT MATERIAL SHALL BE PLANTED ACCORDING TO INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA)







SITE REQUIREMENT CALCULATIONS

STREET FRONTAGE E. OLD WEST HIGHWAY

1 TREE / 30 FT (615 LN FT) 5 SHRUBS / 30' FT (615 LN FT) 12TH AVE

1 TREE / 30 FT (467 LN FT) 5 SHRUBS / 30' FT (467 LN FT)

WICKIUP ROAD 1 TREE / 30 FT (1194 LN FT) 5 SHRUBS / 30' FT (1194 LN FT)

REQUIRED:

100 **REQUIRED:**

78 **REQUIRED**: 40

199

PROVIDED: 20 106

PROVIDED:

78

PROVIDED: 3 EXISTING, 37 NEW 199

DEVELOPER / PROPERTY OWNER / CLIEN1

AE URBIA 909 W. SOUTH JORDAN PARKWAY SOUTH JORDAN, UT 84095 801-575-6455

SHEET INDEX

LP-101

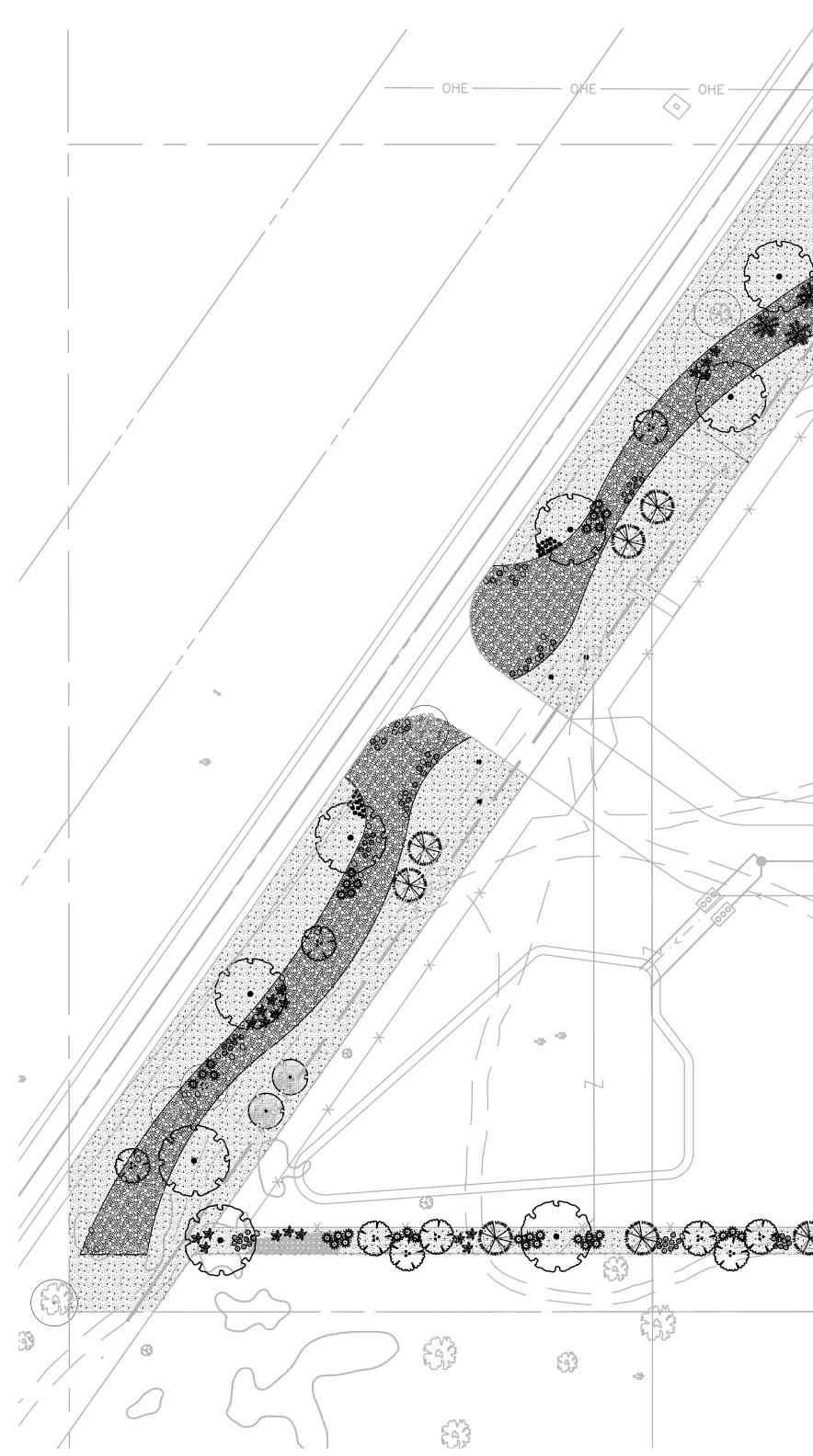
PLANT LEGEND

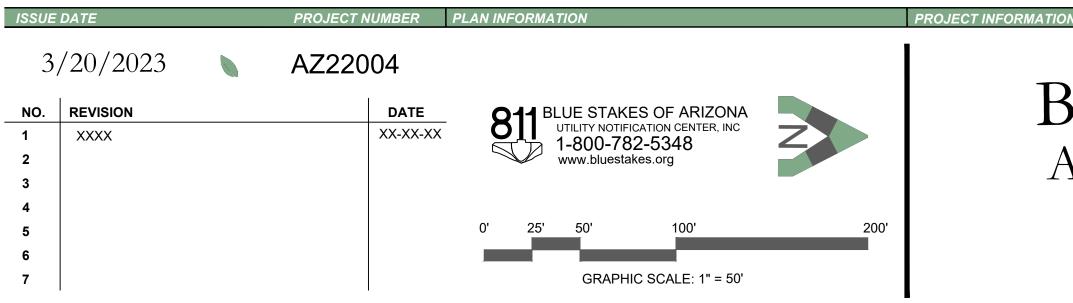
| | A TREES | <u>CODE</u> | <u>QTY</u> | BOTANICAL / COMMON NAME | <u>CONT</u> | SIZE |
|-------------|--|---------------|------------|---|-------------|-------|
| | | PF | 5 | Parkinsonia florida Blue Palo Verde | 36"box | |
| | A CONTRACTOR OF THE SECOND | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | | PE'M | 32 | Pinus eldarica Mondell Pine | 36"box | |
| \sim | The The Numit | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| \bigwedge | | CL'B | 31 | Chilopsis linearis 'Burgundy Lace' Burgundy Lace Desert Willow | 36"box | |
| 5 | June 2 | PC'R | 20 | Pistacia chinensis 'Red Push' Red Push Chinese Pistache | 36"box | |
| \searrow | EVEN ENCIVREES | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | to the second se | AS'S | 8 | Acacia stenophylla Shoestring Acacia | 36"box | |
| | • | OE'W | 1 | Olea europaea 'Wilsonii' Wilson Olive | 36"box | |
| | PALTAS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | * | PD'P | 13 | Phoenix dactylifera Date Palm | 24"box | 7`-9` |
| | SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | \odot | SR2 | 226 | Salvia greggii 'Raspberry' Raspberry Autumn Sage | 5 gal | |
| | EVERGREEN SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | œ | LZ'C | 103 | Leucophyllum zygophyllum Cimmeron Texas Sage | 5 gal | |
| | \odot | SS'L | 7 | Sophora secundiflora Texas Mountain Laurel | 5 gal | |
| | SUCCULENTS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | ₩. | AA'V | 98 | Agave americana 'Marginata' Variegated Century Plant | 5 gal | |
| | \$ | АР ' Т | 56 | Agave parryi truncata Artichoke Parry's Agave | 5 gal | |
| | -NW2 | DQ'M | 4 | Dasylirion quadrangulatum | 5 gal | |
| | E. | DQM | · | Mexican Grass Tree | | |
| | | FS | 15 | Mexican Grass Tree Fouquieria splendens Ocotillo | 5 gal | |

SITE MATERIALS LEGEND

| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
|------------|--------|---|-----------|
| | 1-09 | 1" APACHE BROWN CRUSHED ROCK TO MATCH EXISTING ROCK MULCH PLANTING AREAS WHERE PLANTS ARE LOCATED ARE TO RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF ROCK MULCH TOP DRESSING. KEEP ROCK FROM WITHIN ONE FOOT OF TREE TRUNK, SHRUB OR PERENNIAL STEM OR GRASS ROOT BALL. INSTALL DEWITT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL ROCK AREAS. KEEP WEED BARRIER 1` AWAY FROM EDGE OF ROOT BALL OF ALL PLANTS. | 94,817 sf |
| | 1-10 | 2"-4" CHARCOAL CRUSHED ROCK TO MATCH COBBLE AT SWALE INLETS. ROCK MULCH PLANTING AREAS WHERE PLANTS ARE LOCATED TO RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF ROCK MULCH TOP DRESSING. KEEP ROCK FROM WITHIN ONE FOOT OF TREE TRUNK, SHRUB OR PERENNIAL STEM OR GRASS ROOT BALL. INSTALL DEWITT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL ROCK AREAS. KEEP WEED BARRIER 1` AWAY FROM EDGE OF ROOT BALL OF ALL PLANTS. | 37,321 sf |
| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
| \bigcirc | 1-17 | BOULDERS - DECORATIVE | 148 |
| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
| | 1-22 | EXISTING LANDSCAPING TO REMAIN | 9,963 sf |





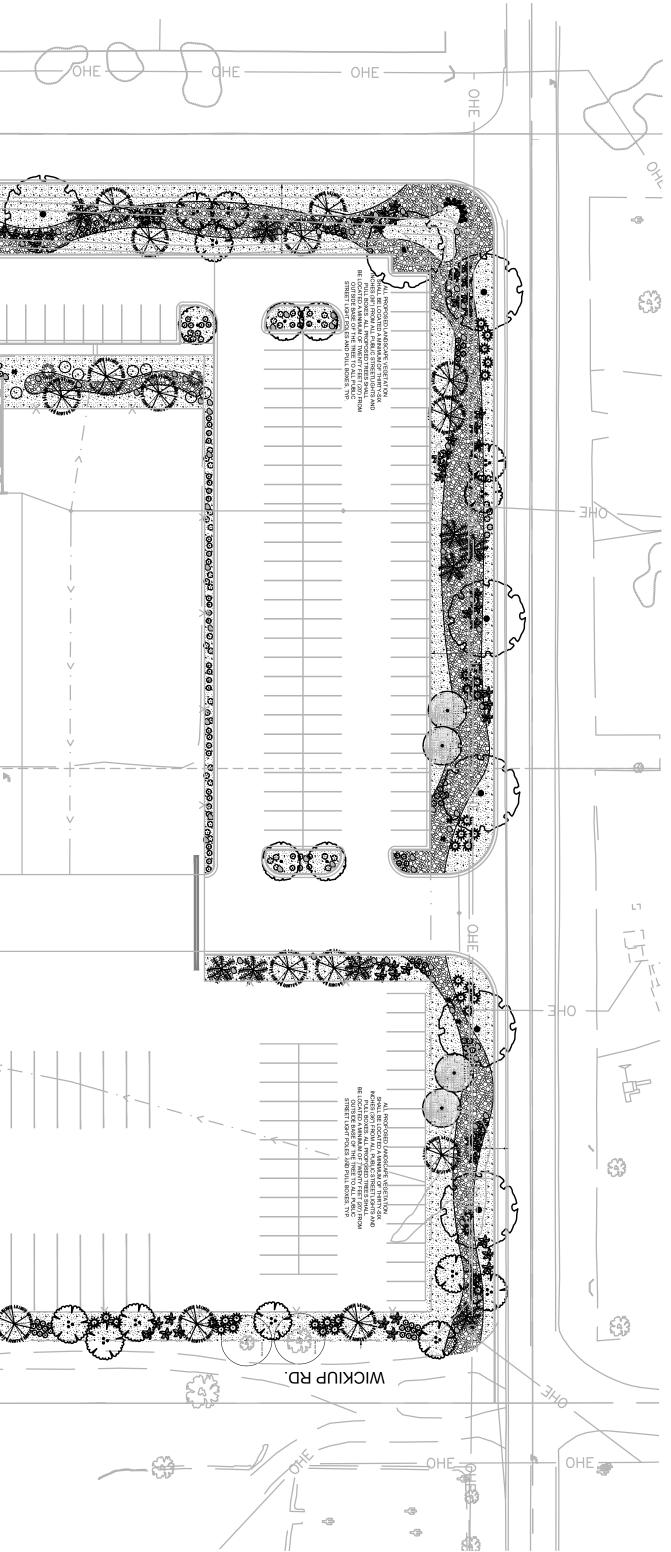


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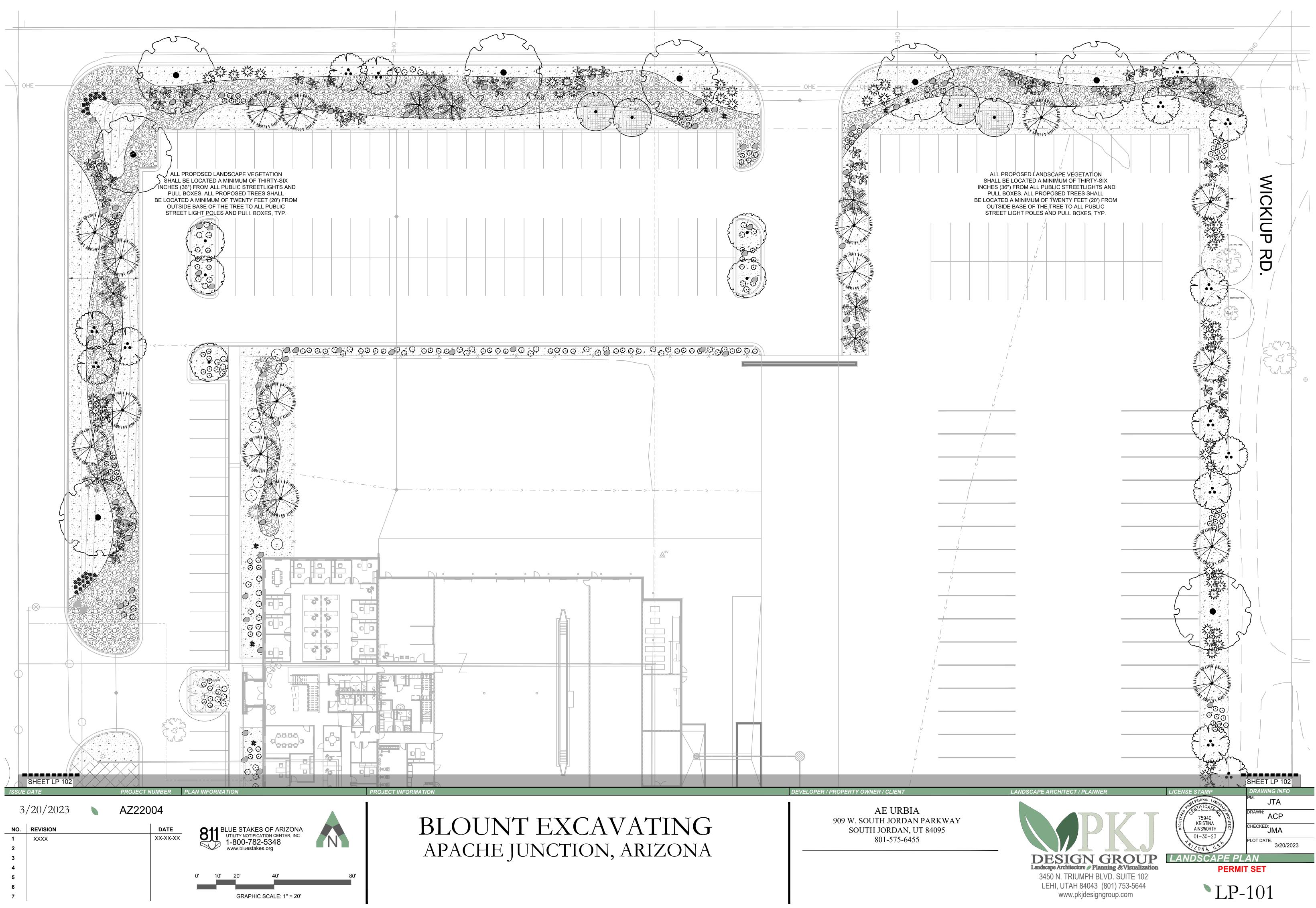
DEVELOPER / PROPERTY OWNER / CLIENT

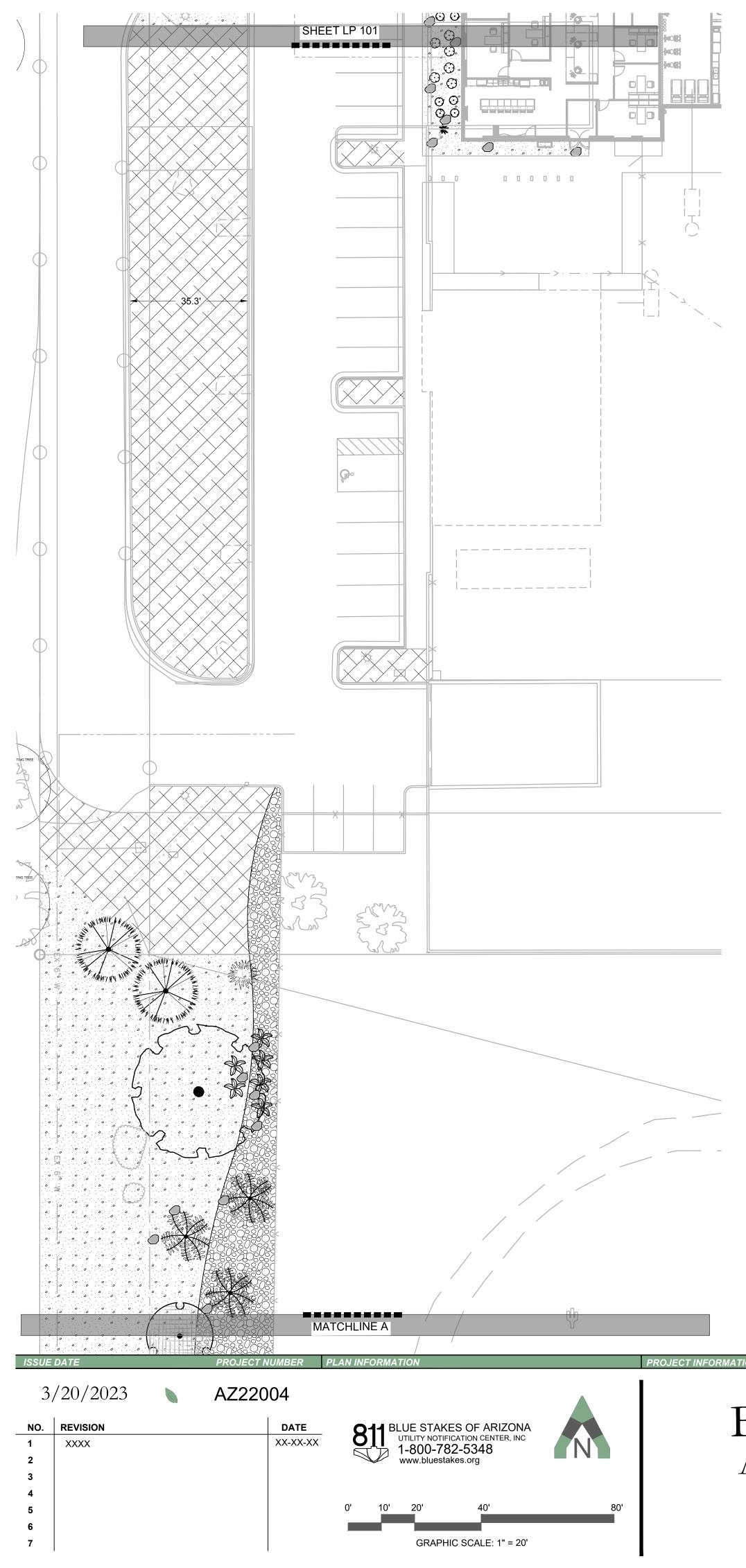
BLOUNT EXCAVATING APACHE JUNCTION, ARIZONA

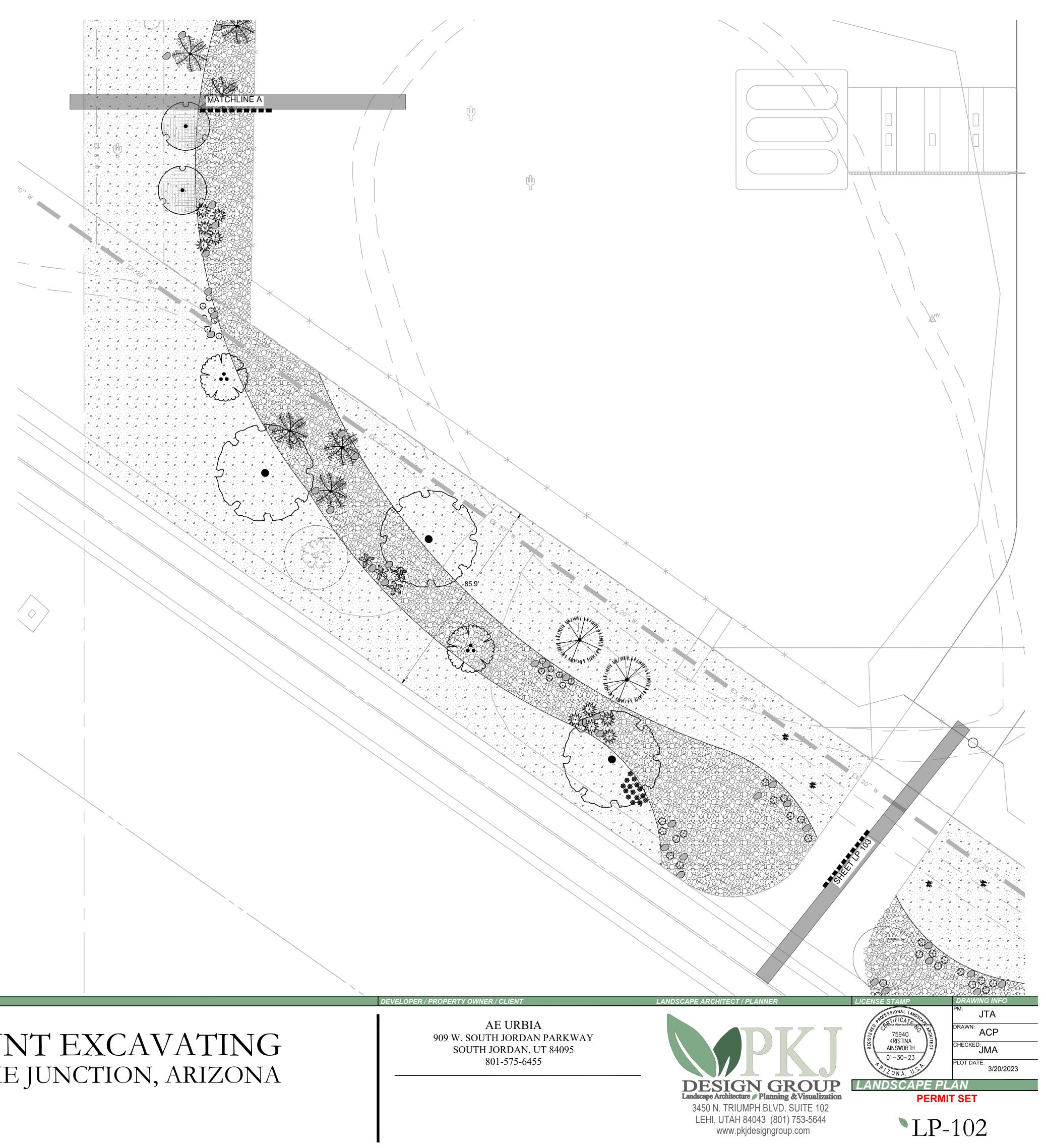
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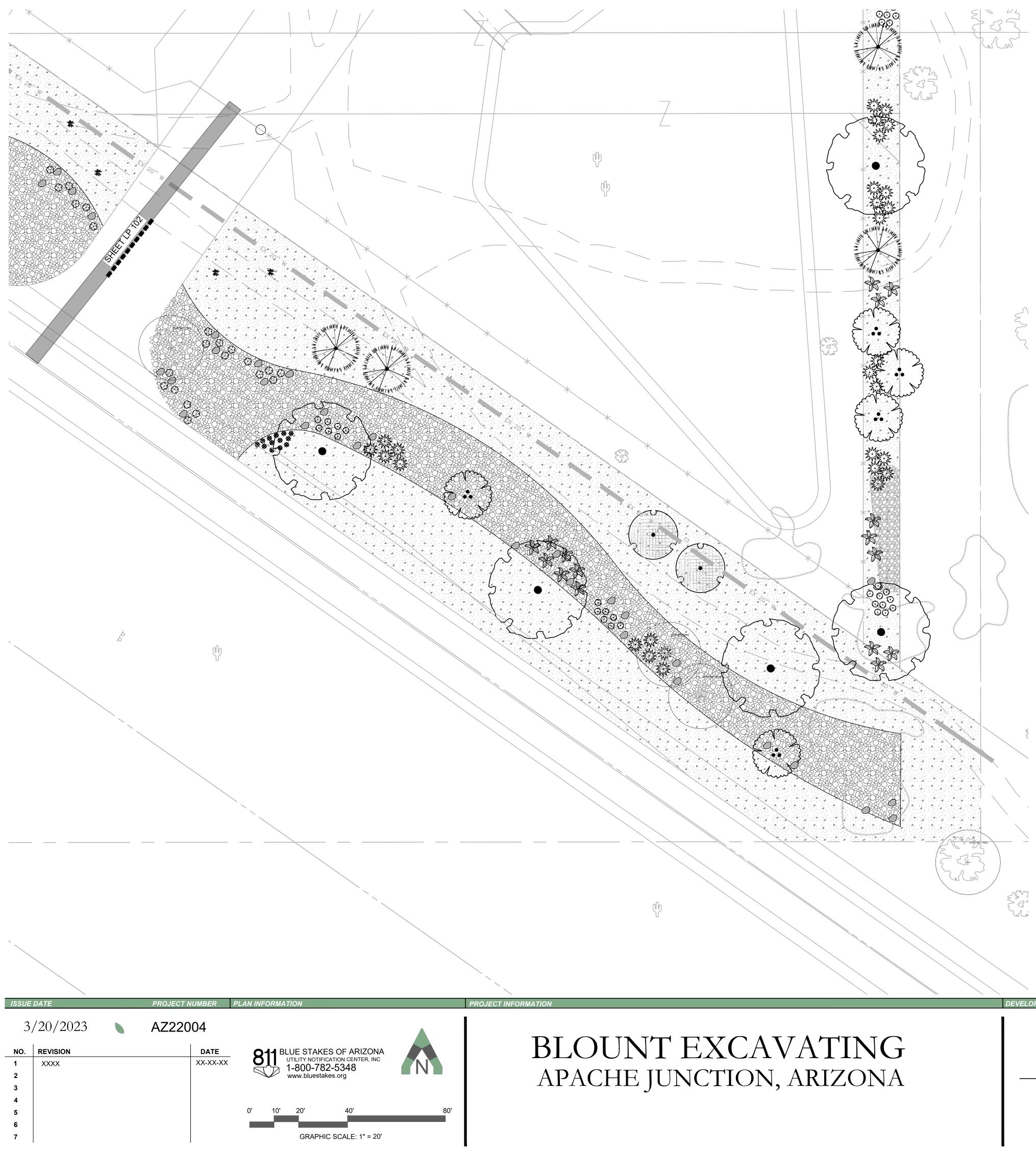












DEVELOPER / PROPERTY OWNER / CLIENT

AE URBIA 909 W. SOUTH JORDAN PARKWAY SOUTH JORDAN, UT 84095 801-575-6455

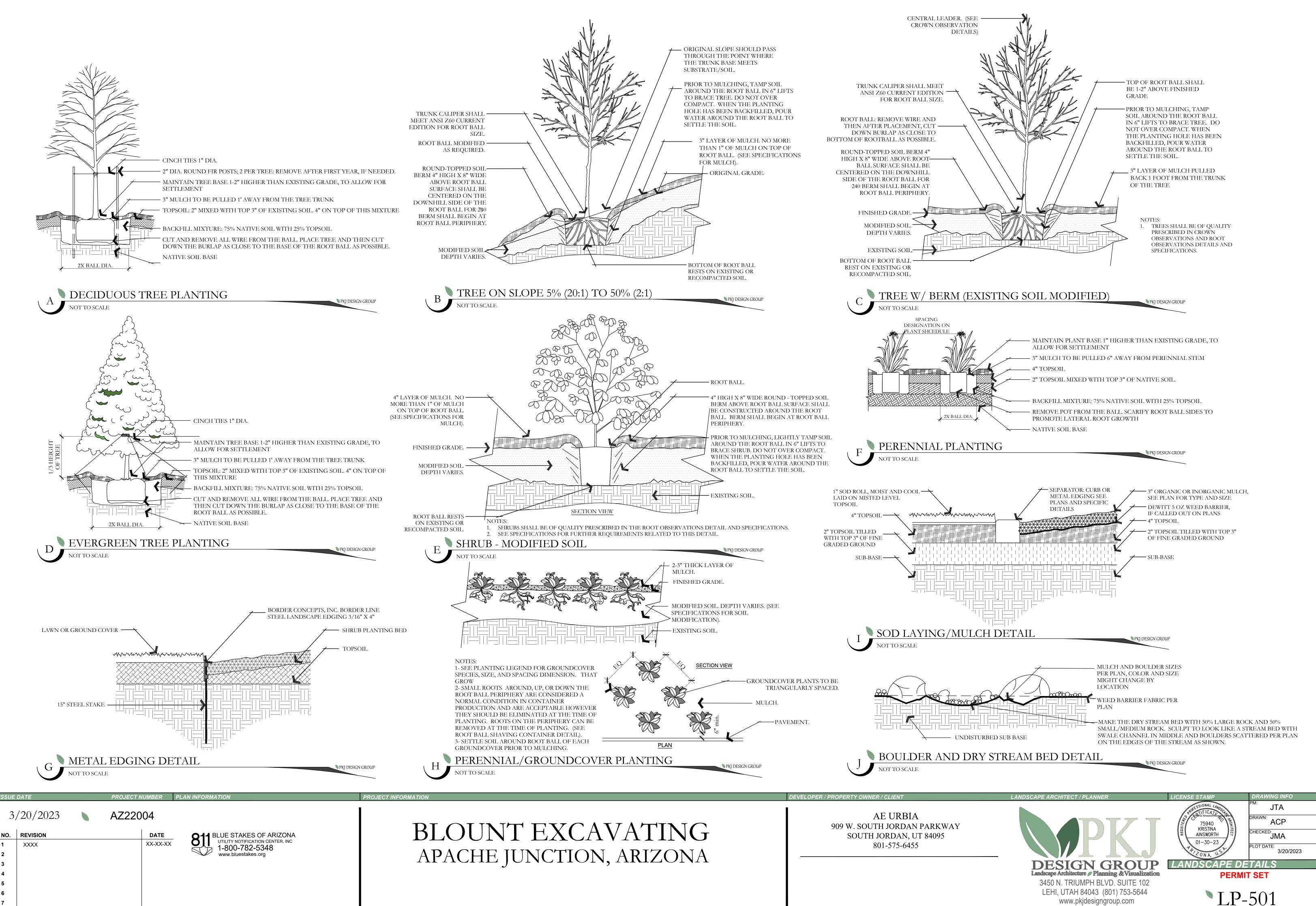
PLANT LEGEND

| | A TREES | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
|-------------|--|------|-----|---|--------|-------|
| | ۲ • ۲ | PF | 5 | Parkinsonia florida Blue Palo Verde | 36"box | |
| | A REAL PROPERTY AND A REAL | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | | PE'M | 32 | Pinus eldarica Mondell Pine | 36"box | |
| \sim | Total Cous trees | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| \bigwedge | | CL'B | 31 | Chilopsis linearis 'Burgundy Lace' Burgundy Lace Desert Willow | 36"box | |
| 5 | June of | PC'R | 20 | Pistacia chinensis 'Red Push' Red Push Chinese Pistache | 36"box | |
| \searrow | EVER ELENTREES | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | | AS'S | 8 | Acacia stenophylla Shoestring Acacia | 36"box | |
| | • | OE'W | 1 | Olea europaea 'Wilsonii' Wilson Olive | 36"box | |
| | PATTE | CODE | QTY | BOTANICAL / COMMON NAME | CONT | SIZE |
| | * | PD'P | 13 | Phoenix dactylifera Date Palm | 24"box | 7`-9` |
| | SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | \odot | SR2 | 226 | Salvia greggii 'Raspberry' Raspberry Autumn Sage | 5 gal | |
| | EVERGREEN SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | \odot | LZ'C | 103 | Leucophyllum zygophyllum Cimmeron Texas Sage | 5 gal | |
| | \odot | SS'L | 7 | Sophora secundiflora Texas Mountain Laurel | 5 gal | |
| | SUCCULENTS | CODE | QTY | BOTANICAL / COMMON NAME | CONT | |
| | K | AA'V | 98 | Agave americana 'Marginata' Variegated Century Plant | 5 gal | |
| | 鐐 | AP'T | 56 | Agave parryi truncata Artichoke Parry's Agave | 5 gal | |
| | E E E E | DQ'M | 4 | Dasylirion quadrangulatum Mexican Grass Tree | 5 gal | |
| | | FS | 15 | Fouquieria splendens Ocotillo | 5 gal | |
| | N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.N.N. | HF'G | 129 | Hesperaloe funifera Giant Hesperaloe | 5 gal | |

SITE MATERIALS LEGEND

| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
|------------|--------|---|-----------|
| | 1-09 | 1" APACHE BROWN CRUSHED ROCK TO MATCH EXISTING ROCK MULCH PLANTING AREAS WHERE PLANTS ARE LOCATED ARE TO RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF ROCK MULCH TOP DRESSING. KEEP ROCK FROM WITHIN ONE FOOT OF TREE TRUNK, SHRUB OR PERENNIAL STEM OR GRASS ROOT BALL. INSTALL DEWTIT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL ROCK AREAS. KEEP WEED BARRIER 1' AWAY FROM EDGE OF ROOT BALL OF ALL PLANTS. | 94,817 sf |
| | 1-10 | 2"-4" CHARCOAL CRUSHED ROCK TO MATCH COBBLE AT SWALE INLETS. ROCK MULCH PLANTING AREAS WHERE PLANTS ARE LOCATED TO RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF ROCK MULCH TOP DRESSING. KEEP ROCK FROM WITHIN ONE FOOT OF TREE TRUNK, SHRUB OR PERENNIAL STEM OR GRASS ROOT BALL. INSTALL DEWITT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL ROCK AREAS. KEEP WEED BARRIER 1' AWAY FROM EDGE OF ROOT BALL OF ALL PLANTS. | 37,321 sf |
| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
| \bigcirc | 1-17 | BOULDERS - DECORATIVE | 148 |
| | SYMBOL | 1 LANDSCAPE DESCRIPTION | QTY |
| | 1-22 | EXISTING LANDSCAPING TO REMAIN | 9,963 sf |





IRRIGATION PLAN SPECIFICATIONS

IRRIGATION SPECIFICATIONS

PART I - GENERAL 1.1 SUMMARY

Work to be done includes all labor, materials, equipment and services required to complete the Project irrigation system as indicated on the Construction Drawings, and as specified herein. Includes but is not limited to: Furnishing and installing underground and above ground sprinkler system complete with any accessories necessary for proper function and operation of the system. All plant material on the Project shall be irrigated. Remove and dispose of any existing sprinkler system components which are disturbed during the construction process and are not to be saved. Restoration of any altered or damaged existing landscape to original state and condition.

- 1.2 SYSTEM DESCRIPTION
- A.Design of irrigation components: Locations of irrigation components on Construction Drawings may be approximate. Piping, sleeving and/or other components shown on Construction drawings may be shown schematically for graphic clarity and demonstration of component groupings and separations. All irrigation components shall be placed in landscaped areas, with the exception of pope and wire in sleeving under hardscapes. Actual routing of pipe, wire or other 1.8 SEQUENCING components may be altered due to site conditions not accounted for in the design process.
- B.Construction requirements: Actual placement may vary as required to achieve a minimum of 100% coverage without overspray onto hardscape, buildings or other features.
- C. Layout of Irrigation Components: During layout and staking, consult with Owner Approved Representative (hereafter referred to as OAR) to verify proper placement of irrigation components, and to provide Contractor recommendations for changes where revisions may be advisable. Small or minor adjustments to system layout are permissible to avoid existing field obstructions such as utility boxes or street light poles. Contractor shall place remote control valves in groups as practical to economize on quantity of manifold isolation valves. Quick coupler valves shall be placed with manifold groups and protected by manifold isolation valves. Quick coupler valves are shown on Construction Documents in approximate locations.
- 1.3 DEFINITIONS
- A.Water Supply: Secondary water piping and components, furnished and installed by others to provide irrigation water to this Project, including but not limited to filter, saddles, nipples, spools, shut off valves, corporation stop valves, water meters, pressure regulation valves, and piping upstream of (or prior to) the Point of Connection.
- B. Point of Connection: Location where the Contractor shall tie into the water supply. May require filter, saddle, nipples, spools, isolation valves or Stop and Waste valve for landscape irrigation needs and use.
- C. Main Line Piping: Pressurized piping downstream of the Point of Connection to provide water to remote control valves 1.11 MAINTENANCE and quick couplers. Normally under constant pressure. D. Lateral Line Piping: Circuit piping downstream of remote control valves to provide water to sprinkler heads, drip
- systems or bubblers.
- 1.4 REFERENCES
- A.The following standards will apply to the work of this Section:
- a. ASTM-American Society for Testing and Materials
- b. IA The Irrigation Association: Main BMP Document, Landscape Irrigation Scheduling and Water Management Document.
- 1.5 SUBMITTALS

A.At least thirty (30) days prior to ordering of any materials, the Contractor shall provide manufacturer catalog cut sheet and current printed specifications for each element or component of the irrigation system. Submittals shall be in three ring binders or other similar bound form. Provide five copies of submittals to OAR for distribution. Place cover or index sheet indicating order in submittal document. No material shall be ordered, delivered or any work preceded in the field until the required submittals have need reviewed in its entirety and stamped approved. Delivered material shall match the approved samples.

- B.Operation and Maintenance Manual:
- a. At least thirty (30) days prior to final inspection, the Contractor shall provide Operation and Maintenance manual to 2.2 POINT OF CONNECTION OAR, containing
- i. Manufacturer catalog cut sheet and current printed specifications for each element or component of the irrigation system.
- ii. Parts list for each operating element of the system
- iii.Manufacturer printed literature on operation and maintenance of operating elements of the system.
- iv.Section listing instructions for overall system operation and maintenance. Include directions for Spring Start-up and Winterization.
- b. Project Record Copy
- i. Maintain at project site one copy of all project documents clearly marked "Project Record Copy". Mark any deviation in material installation on Construction drawings. Maintain and update drawing at least weekly. Project Record Copy to be available to OAR on demand.
- ii. Completed Project As-Built Drawings
- 1. Prior to final inspection, prepare and submit to OAR accurate as-built drawings
- 2. Show detail and dimension changes made during installation. Show significant details and dimensions that were not shown in original Contract Documents.
- 3. Field dimension locations of sleeving, points of connection, main line piping, wiring runs not contained in main line pipe
- trenches, valves and valve boxes, quick coupler valves. 4. Dimensions are to be taken from permanent constructed surfaces, features, or finished edges located at or above finished
- 5. Controller Map: upon completion of system, place in each controller a color coded copy of the area that controller services: indicating zone number, type of plant material and location on project that zone services. Laminate map with heat shrink clear plastic.
- 1.6 QUALITY ASSURANCE
- A.Acceptance: Do not install work in this section prior to acceptance by OAR.
- B.Regulatory Requirements: All work and materials shall be according to any and all rules, regulations or codes, whether they are State or Local laws and ordinances. Contract documents, drawings or specifications may not be construed or interpreted to permit work or materials not conforming to the above codes.
- C. Adequate Water Supply: Water supply to this Project exists, installed by others. Connections to these supply lines shall be by this Contractor. Verify that proper connection is available to supply line and is of adequate size. Verify that secondary connection components may be installed if necessary. Perform static pressure test prior to commencement of work. Notify OAR in writing of problems encountered prior to proceeding.
- D. Workmanship and Materials:
- a. It is the intent of this specification that all material herein specified and shown on the construction documents shall
- be of the highest quality available and meeting the requirements specified.
- b. All work shall be performed in accordance with the best standards of practice relating to the trade.
- E.Contractor Qualifications:
- a. Contractor shall provide document or resume including at least the following items:
- i. That Contractor has been installing sprinklers on commercial projects for five previous consecutive years. ii. Contractor is licensed to perform Landscape and Irrigation construction in the State of this Project.
- iii.Contractor is bondable for the work to be performed.
- iv.References of five projects of similar size and scope completed within the last five years. Three of the projects listed shall be local.
- v. Listing of suppliers where materials will be obtained for use on this Project.
- vi.Project site Foreman or Supervisor has at least five consecutive years of commercial irrigation installation experience.

- This person shall be a current Certified Irrigation Contractor in good s Association. This person shall be on Project site at least 75% of each v vii. Evidence that Contractor currently employs workers in sufficient of that are established by the Contract.
- viii. All General laborers or workers on the Project shall be previously t and have a minimum of one-year experience. Those workers performi certificates designated below.
- DELIVERY-STORAGE-HANDLING

A.During delivery, installation and storage of materials for Project, all materia damage, vandalism, and prolonged exposure to sunlight. All material stored compact arrangement and storage shall not disrupt Project Owner or other installed shall be handled by Contractor with care to avoid breakage or dam Contractor shall be replaced with new at Contractor's expense.

A.Perform site survey, research utility records, contact utility location services all hazards and utilities prior to work commencement. Install sleeving prior permanent site elements. Irrigation system Point of Connection componen regulation devices shall be installed and operational prior to all downstream thoroughly flushed of all debris prior to installation of any sprinkler heads.

WARRANTY

- A.Contractor shall provide one year Warranty. Warranty shall cover all materi include filling and or repairing depressions or replacing turf or other plantin irrigation system elements. Valve boxes, sprinklers or other components se restored to proper grade. Irrigation system shall have been adjusted to prov areas.
- 1.10 OWNER'S INSTRUCTION
- A.After system is installed, inspected, and approved, instruct Owner's Repres maintenance procedures. Coordinate instruction with references to previou Manual.

- A.Furnish the following items to Owner's Representative:
- a. Two quick coupler keys with hose swivels.
- b. One of each type or size of quick coupler valve and remote control val each sprinkler and sprinkler nozzle.
- B. Provide the following services:
- a. Winterize entire irrigation system installed under this contract. Winteri Compressor shall be capable of minimum of 175 CFM. This operation after need for plant irrigation but prior to freezing. Compressor shall b pressure regulation devices. Compressor shall be regulated to not mor spring after danger of freezing has passed. Contractor shall train Owne winterization procedure
- PART 2 PRODUCTS
- GENERAL NOTES
- A.Contractor shall provide materials to be used on this Project. Contractor sl Project from the Project Site, nor mix Project materials with other Contrac purchase and provide project material.
- A.The Contractor shall connect onto existing irrigation or water main line as shall install new main line as indicated.
- 2.3 CONNECTION ASSEMBLY
- A.Secondary water shall be used on this Project. Install filter and RPZ as need
- A.Power supply to the irrigation controller shall be provided for by this Control
- B. Controller shall be as specified in the drawings. Controller shall be surge pr a. Installation of wall-mount/ground pedestal timer controllers: Irrigation
- Power configuration for wall-mount/ground pedestal timer controller b. Locate Controller(s) in general location shown on Construction drawing allocation with electrical contractor. Contractor shall be responsible fo whether they are wall mount or pedestal mount. Contractor shall coor needed to facilitate installation of power to controllers.
- C. Wires connecting the remote control valves to the irrigation controller are shall incorporate a solid copper conductor and polyethylene (PE) insulation The wires shall be UL listed for direct burial in irrigation systems and be ra
- Co., LP specification number P7079D. a. A minimum of 24" of additional wire shall be left at each valve, each s b. Common wire shall be white in color, 12 gauge. Control wire shall be shall be looped within each valve box of the grouping it is to service.
- D. RCV wire splicing connectors shall be 3M brand DBY or DBR. Wire spli avoided if at all possible. Any wire splices shall be contained within a valve no control valves shall be stamped 'WIRE SPLICE' or 'WS' on box lid.
- SLEEVING

A.Contractor shall be responsible to protect existing underground utilities and 2". Sleeving 2" through 4" in size shall be S/40 PVC solvent weld. Sleeving Sleeve diameter shall be at least two times the diameter of the pipe within minimum beyond walk or edge of pavement. Wire or cable shall not be inst installed in separate sleeves. Sleeve ends on sleeve sizes 4" and larger shall I PVC slip cap, pressure fit, until used, to prevent contamination. Sleeves sha line pipe or lateral pipe.

- 2.6 MAIN LINE PIPE
- A.All main line pipe 4" and larger shall be Class 200 gasketed bell end. All ma Schedule 40 PVC solvent weld bell end.
- a. Maximum flows allowed through main line pipe shall be:
- 3/4" 8 GPM 12 GPM 1-1/2" 30 GPM 53 GPM
- 2-1/2" 75 GPM 110 GPM
- 180 GPM
- b. Main line pipe shall be buried with 24" cover
- 2.7 MAIN LINE FITTINGS

| ISSUE | DATE | PROJECT NUMBER | PLAN INFORMATION | PROJECT INFORMATION |
|-------|----------|----------------|--|---------------------|
| 3 | /20/2023 | AZ22004 | | Ь |
| NO. | REVISION | DATE | O11 BLUE STAKES OF ARIZONA | ГВ |
| 1 | XXXX | XX-XX-XX | UTILITY NOTIFICATION CENTER, INC 1-800-782-5348 | |
| 2 | | | www.bluestakes.org | I A |
| 3 | | | | |
| 4 | | | | |
| 5 | | | 0' 75' 150' 300' 600' | |
| 6 | | | | |
| 7 | | | GRAPHIC SCALE: 1" = 150' | |

BLOUNT EXCAVATING APACHE JUNCTION, ARIZONA

| od standing as set forth by the Irrigation | A.All main line fittings 3" and larger shall be gasketed ductile iron material. All ductile iron fittings having change of | D. Wiring under hardscape surfaces shall be placed continuously in conduit. Contractor shall be responsible to coordinate |
|---|--|---|
| ch working day. | direction shall have proper concrete thrust block installed. All main line fittings smaller than 3" in size shall be Schedule 80 PVC. | sleeving needs for conduit or sweeps elbows from exterior to interior of building. |
| nt quantities to complete Project within time limits | 2.8 ISOLATION VALVES | E.Pedestal controllers shall be placed upon VIT-Strong Box Quick Pad as per manufacturer's recommendations. Controllers shall be oriented such that Owner's Representative maintenance personnel may access easily and perform field system |
| sly trained and familiar with sprinkler installation rming tasks related to PVC pipe shall have | A.Isolation valves 3" and larger shall be Waterous brand model 2500 cast iron gate valve, resilient wedge, push on type, with 2" square operating nut. Place sleeve of 6" or larger pipe over top of valve vertically and then extend to grade. Place 10" round valve box over sleeve at grade. | tests efficiently. F. Place Standard valve box at base of controller or nearby to allow for three to five feet of slack field control wire to be placed at each controller. This Contractor shall provide conduit access if needed for Electrical Contractor. Electrical |
| terials shall be protected from contamination, ored at Project site shall be neatly organized in a | B. Isolation valves 2-1/2" and smaller shall be Apollo brand 70 series brass ball valves, contained in a Carson Standard size valve box. Valves shall be installed with S/80 PVC TOE Nipples on both sides of the valve. Valve shall be placed so that the handle is vertical toward the top of the valve box in the 'off' position. | supply and installation, as well as hook-up to controller shall be by this Contractor. 3.7 VALVES A.Isolation valves, remote control valves, and quick coupler valves shall be installed according to manufacturer |
| ther trades on Project site. All material to be damage. Damaged materials attributed to | 2.9 MANIFOLDS | recommendation and Contract Specifications and Details. |
| rices. The Contractor shall familiarize himself with | A.Action Manifold fittings shall be used to create unions on both sides of each control valve, allowing the valve to be removed from the box without cutting piping. Valves shall be located in boxes with ample space surrounding them to allow access for maintenance and repair. Where practical, group remote control valves in close proximity, and protect each grouping with a manifold isolation valve as shown in details. Manifold Main Line (or Sub-Main Line) and all | B. Valve boxes shall be set over valves so that all parts of the valve can be reached for service. C. Valve box and lid shall be set to be flush with finished grade. Only one remote control valve may be installed in a valve box. Place a minimum of 4" of ³/₄" washed gravel beneath valve box for drainage. Bottom of remote control valve shall be a minimum of 2" above gravel. |
| rior to installation of concrete, paving or other | manifold components and isolation valves shall be at least as large as the largest diameter lateral served by the respective manifold. | 3.8 SPRINKLER HEADS |
| nents, backflow prevention and pressure eam components. All main lines shall be | 2.10 REMOTE CONTROL VALVES | A.No sprinkler shall be located closer than 6" to walls, fences, or buildings. |
| ıds. | A.Remote control valves shall be as specified on the drawings. Remote control valves shall be located separately and individually in separate control boxes. | B. Heads adjacent to walks, curbs, or paths shall be located at grade and 2" away from hardscape. |
| | 2.11 MANUAL CONTROL VALVES | C. Control valves shall be opened. Then fully flush lateral line pipe and swing joints prior to installation of sprinklers.D. Spray heads shall be installed and flushed again prior to installation of nozzles. |
| aterials, workmanship and labor. Warranty shall | A.Quick coupler valve shall be attached to the manifold sub-main line using a Lasco G17S212 swing joint assembly with | E.Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. |
| antings due to settlement of irrigation trenches or rs settled from original finish grade shall be | snap-lock outlet and brass stabilizer elbow. Quick coupler valve shall be placed within a Carson 10" round valve box. Top of quick coupler valve cover shall allow for complete installation of valve box lid, but also allow for insertion and | 3.9 FIELD QUALITY CONTROL |
| provide proper, adequate coverage of irrigated | operation of key. Base of quick coupler valve and top of quick coupler swing joint shall be encased in ³ / ₄ " gravel. Contractor shall not place quick coupler valves further than 200 feet apart, to allow for spot watering or supplemental | A.Main line pipes shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi. |
| presentatives in complete operation and | irrigation of new plant material. Quick coupler valve at POC shall not be eliminated or relocated. 2.12 LATERAL LINE PIPE | B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in sections that can be isolated. |
| viously submitted Operation and Maintenance | A.All lateral piping shall be Schedule 40 PVC, solvent weld, and bell end. Lateral pipe shall be buried with 12-18" of cover typically. Lateral pipe shall be ³ / ₄ ", 1", 1 ¹ / ₄ ", 1 ¹ / ₂ " or 2" in size as indicated on Construction Drawings. | C.Contractor shall provide pressurized water pump to increase or boost pressure where existing static pressure is less than 100 psi. |
| | 2.13 LATERAL LINE FITTINGS | D. Schedule testing with OAR 48 hours in advance for approval. |
| | A.All lateral line fittings shall be S/40 PVC | E.Leaks or defects shall promptly be repaired or rectified at the Contractors expense and retested until able to pass testing. |
| | 2.14 Spray Sprinklers | F. Grounding resistance at pedestal controller shall also be tested and shall not exceed 5 OHMs. |
| l valve. Five percent of total quantities used of | A.Spray head sprinklers shall be as specified on the drawings. Nozzles shall be as specified on the drawings. | 3.10 ADJUSTMENT |
| | 2.15 VALVE BOXESA. Rainbird valve boxes shall be used on this project. Sizes are as directed in these Specifications, detail sheets or plan | A.Sprinkler heads shall be adjusted to proper height when installed. Changes in grade or adjustment of head height after installation shall be considered a part of the original contract and at Contractor's expense. |
| nterize by 'blow-out' method using compressed air. tion shall occur at the end of first growing season | sheets. Valve boxes shall be centered over the control valve or element they cover. Valve box shall be sized large enough | B. Adjust all sprinkler heads for arc, radius, proper trim and distribution to cover all landscaped areas that are to be irrigated. |
| all be capable of evacuating system of all water | to allow ample room for services access, removal or replacement of valve or element. Valve box shall be set to flush to finish grade of topsoil or barked areas. Contractor shall provide extensions or stack additional valve boxes as necessary to | C. Adjust sprinklers so they do not water buildings, structures, or other hardscape features. |
| nore than 60 PSI. Start up system the following wner's Representative in proper start-up and | bring valve box pit to proper grade. 2.16 IMPORT BACKFILL | D. Adjust run times of station to meet needs of plant material the station services.3.11 CLEANING |
| | A.All main line pipe, lateral line pipe and other irrigation elements shall be bedded and backfilled with clean soil, free of | A.Contractor shall be responsible for cleanliness of jobsite. Work areas shall be swept cleanly and picked up daily. |
| | rocks 1" and larger. Contractor shall furnish and install additional backfill material as necessary due to rocky conditions. Trenches and other elements shall be compacted and/or water settled to eliminate settling. Debris from trenching | B.Open trenches or hazards shall be protected with yellow caution tape. |
| or shall not remove any material purchased for this | operations un-usable for fill shall be removed from project and disposed of properly by Contractor. | C. Contractor is responsible for removal and disposal of offsite trash and debris generated as a result of this Project. |
| tractor owned materials. Owner retains right to | 2.17 OTHER PRODUCTS | D. OAR shall perform periodic as well as a final cleanliness inspection. E.Contractor shall leave Project in at least a 'broom clean' condition. |
| | A.Substitution of equivalent products is subject to the OAR's approval and must be designated as accepted in writing. | END OF SECTION |
| e as needed for Point(s) of Connection. Contractor | a. The Contractor shall provide materials to make the system complete and operational. PART 3 - EXECUTION | |
| | 3.1 PREPARATION | |
| needed. | A.Contractor shall repair or replace work damaged by irrigation system installation. If damaged work is new, repair or | |
| | replacement shall be performed by the original installer of that work. The existing landscape of this Project shall remain in place. Contractor shall protect and work around existing plant material. Coordination of trench and valve locations | |
| ontract. | shall be laid out for the OAR prior to any excavation occurring. Plant material deemed damaged by the OAR shall be replaced with new plant material at Contractor's expense. Contractor shall not cut existing tree roots larger than 2" to | |
| e protected. ation contractor shall be responsible for this task. | install this Project. Route pipe, wire and irrigation elements around tree canopy drip line to minimize damage to tree roots. Contractor shall have no part of existing system used by other portions of site landscape without water for more | |
| ollers shall be 120 VAC unless otherwise noted. | than 24 hours at a time. | |
| awings. Coordinate power supply and breaker e for all power connections to Controllers, | 3.2 TRENCHING AND BACKFILLING | |
| poordinate with electrical or other Project trades as | A.Pulling of pipe shall not be permitted on this project. Over excavate trenches both in width and depth. Ensure base of trench is rock or debris free to protect pipe and wire. Grade trench base to ensure flat, even support of piping. Backfill with clean soil or import material. Contractor shall backfill no less than 2" around entire pipe with clean, rock free fill. | |
| are single conductors, type PE. Wire construction tion with a minimum thickness of 0.045 inches. | Main line piping and fittings shall not be backfilled until OAR has inspected and pipe has passed pressure testing. Perform balance of backfill operation to eliminate any settling. | |
| e rated at a minimum of 30 VAC. Paige Electric | 3.3 SLEEVING | |
| ch splice box and at each controller. | A.Sleeve all piping and wiring that pass under paving or hardscape features. Wiring shall be placed in separate sleeving from | |
| be red in color, 14 gauge. Spare/extra wire (3 ft.) | piping. Sleeves shall be positioned relative to structures or obstructions to allow for pipe or wire within to be removed if necessary. | |
| ce. | 3.4 GRADES AND DRAINAGE | |
| splicing between controller and valves shall be live box. Splices within a valve box that contains | A.Place irrigation pipe and other elements at uniform grades. Winterization shall be by evacuation with compressed air. Automatic drains shall not be installed on this Project. Manual drains shall only be installed at POC where designated on Construction Drawings. | |
| | 3.5 PVC PIPE | |
| and components. Sleeving minimum size shall be ving 6" and larger shall be CL 200 PVC gasketed. | A.Install pipe to allow for expansion and contraction as recommended by pipe manufacturer. | |
| in the sleeve. Sleeves shall be extended 6" installed in the same sleeve as piping, but shall be | B.Install main line pipes with 18" of cover, lateral line pipes with 12" of cover.C.Drawings show diagrammatic or conceptual location of piping - Contractor shall install piping to minimize change of | |
| hall be capped with integral corresponding sized | direction, avoid placement under large trees or large shrubs, avoid placement under hardscape features. | |
| shall be installed at appropriate depths for main | D. Plastic pipe shall be cut squarely. Burrs shall be removed. Spigot ends of pipes 3" and larger shall be beveled. | |
| | E. Pipe shall not be glued unless ambient temperature is at least 50 degress F. Pipe shall not be glued in rainy conditions unless properly tented. All solvent weld joints shall be assembled using IPS 711 glue and P70 primer according to | |
| main line pipe 3" in size and smaller shall be | manufacturer's specification, no exceptions. All workers performing glue operations shall provide evidence of certification. Glued main line pipe shall cure a minimum of 24 hours prior to being energized. Lateral lines shall cure a | |
| | minimum of 2 hours prior to being energized and shall not remain under constant pressure unless cured for 24 hours. | |
| | F. Appropriate thrust blocking shall be performed on fittings 3" and larger. All threaded joints shall be wrapped with Teflon tape or paste unless directed by product manufacturer or sealing by o-ring. | |
| | 3.6 CONTROLLERS | |
| | A.All grounding for pedestal controllers shall be as directed by controller manufacturer and ASIC guidelines, not to exceed | |
| | a resistance reading of 5 OHMs. B.Locate controllers in protected, inconspicuous places, when possible. Coordinate location of pedestal controllers with | |
| | Landscape Architect to minimize visibility. | |

- Landscape Architect to minimize visibility.
- C.Coordinate location of wall mount controllers with building or electrical Contractor to facilitate electrical service and future maintenance needs. Wall mount shall be securely fastened to surface. If exterior mounted, wall mount controllers shall have electrical service wire and field control wire in separate, appropriate sized weatherproof electrical conduit, PVC pipe shall not be used.

2" MAINLINE ROUTING , CONTROLLER AND P.O.C. LOCATION OVERVIEW

DEVELOPER / PROPERTY OWNER / CLIENT

AE URBIA 909 W. SOUTH JORDAN PARKWAY SOUTH JORDAN, UT 84095 801-575-6455

BLOUNT EXCAVATING APACHE JUNCTION, ARIZONA

90 Day Establishment Period Irrigation Schedule (April, May, June)
 Type
 Sun
 Mon
 Tues
 Wed
 Thurs

 Turf
 15 min
 15 min
 15 min
 15 min
 15 min
 Fri Sat 15 min Shrubs 25 min 0 25 min 0 25 min 25 min pump to increase or boost pressure where existing static pressure is less than

Note: Begin irrigation 4:00 am, only 1 cycle per day

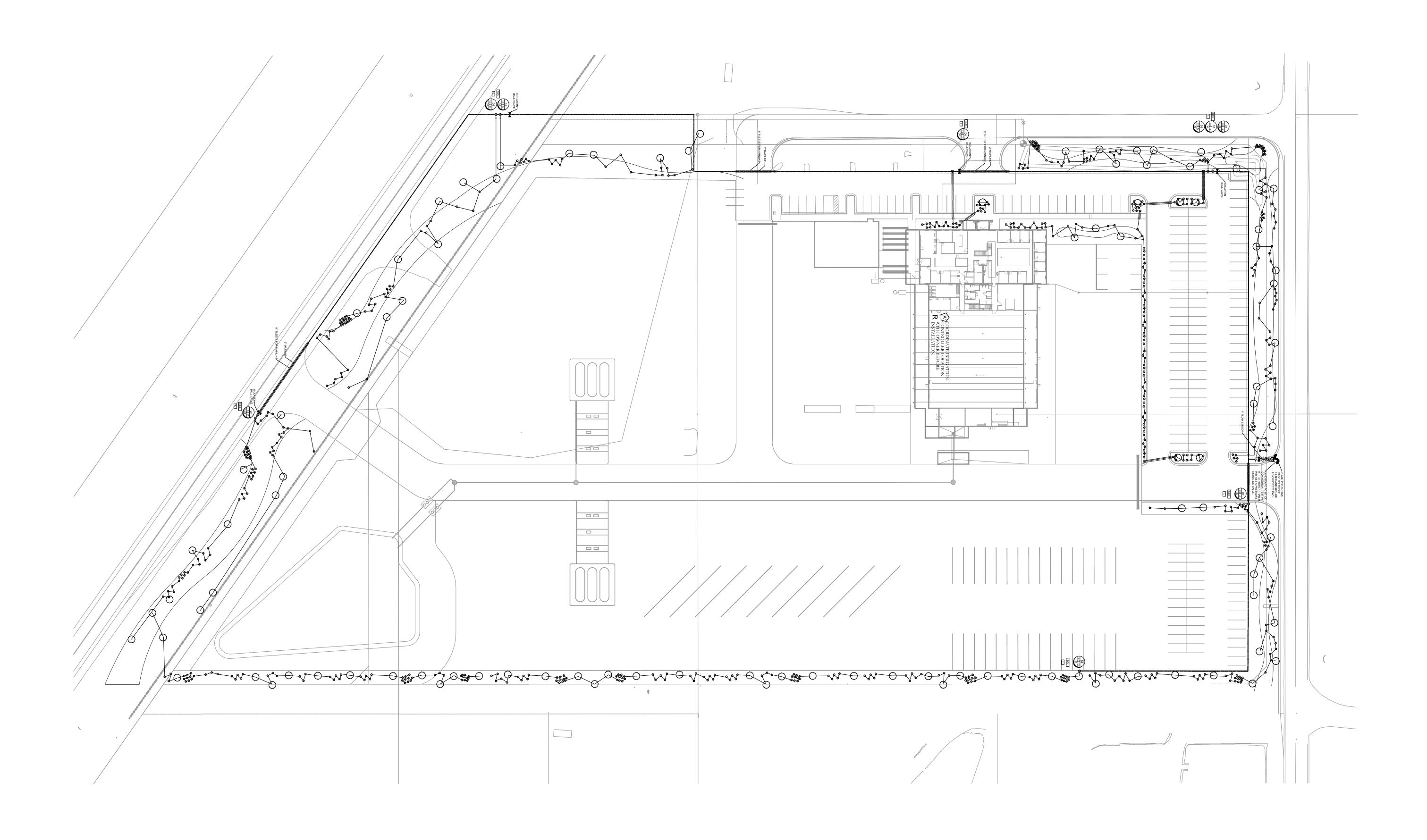
| Regular Irrigation Schedule (see Seasonal Differential Chart) | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| | Туре | Sun | Mon | Tues | Wed | Thurs | Fri | Sat | Operating Pressure |
| Turf | Turf | 15 min | 15 min | | 15 min | | 15 min | | 30 psi |
| Shrubs | Shrubs | 45 min | | 45 min | | 45 min | | 45 min | 40 psi |

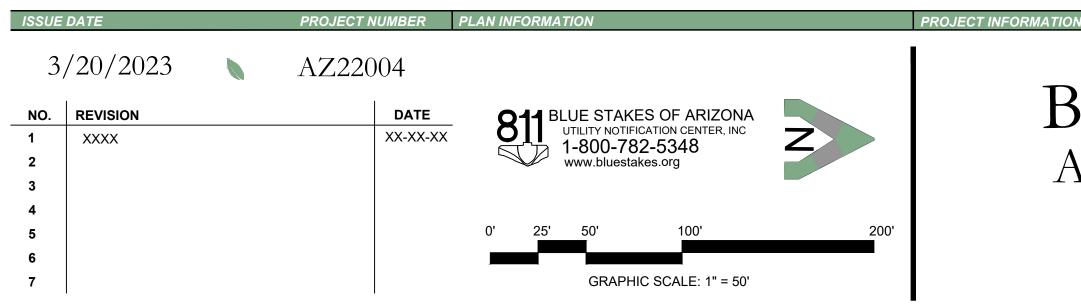
Note: Begin irrigation 4:00 am, only 1 cycle per day.

| Seasonal Differential | | | | | | | | |
|-----------------------|--------|--------|--------|--------|--------|--------|---------|--|
| | April | May | June | July | August | Sept. | October | |
| Turf | 10 min | 10 min | 15 min | 15 min | 15 min | 10 min | 10 min | |
| Shrubs | 30 min | 30 min | 45 min | 45 min | 45 min | 30 min | 30 min | |

ness of jobsite. Work areas shall be swept cleanly and picked up daily. disposal of offsite trash and debris generated as a result of this Project. COORDINATE IRRIGATION **CONTROLLER EXACT LOCATION** WITH OWNER BEFORE INSTALLATION. IR-102 IR-102 IR-103

> LANDSCAPE ARCHITECT / PLAN JTA ACP KRISTINĂ AINSWORTH JMA 03-20-2023 LOT DATE 3/20/2023 **DESIGN GROUP** RRIGATION PLAN COVER Landscape Architecture / Planning & Visualization **PERMIT SET** 3450 N. TRIUMPH BLVD. SUITE 102 LEHI, UTAH 84043 (801) 753-5644 **IR-100** www.pkjdesigngroup.com

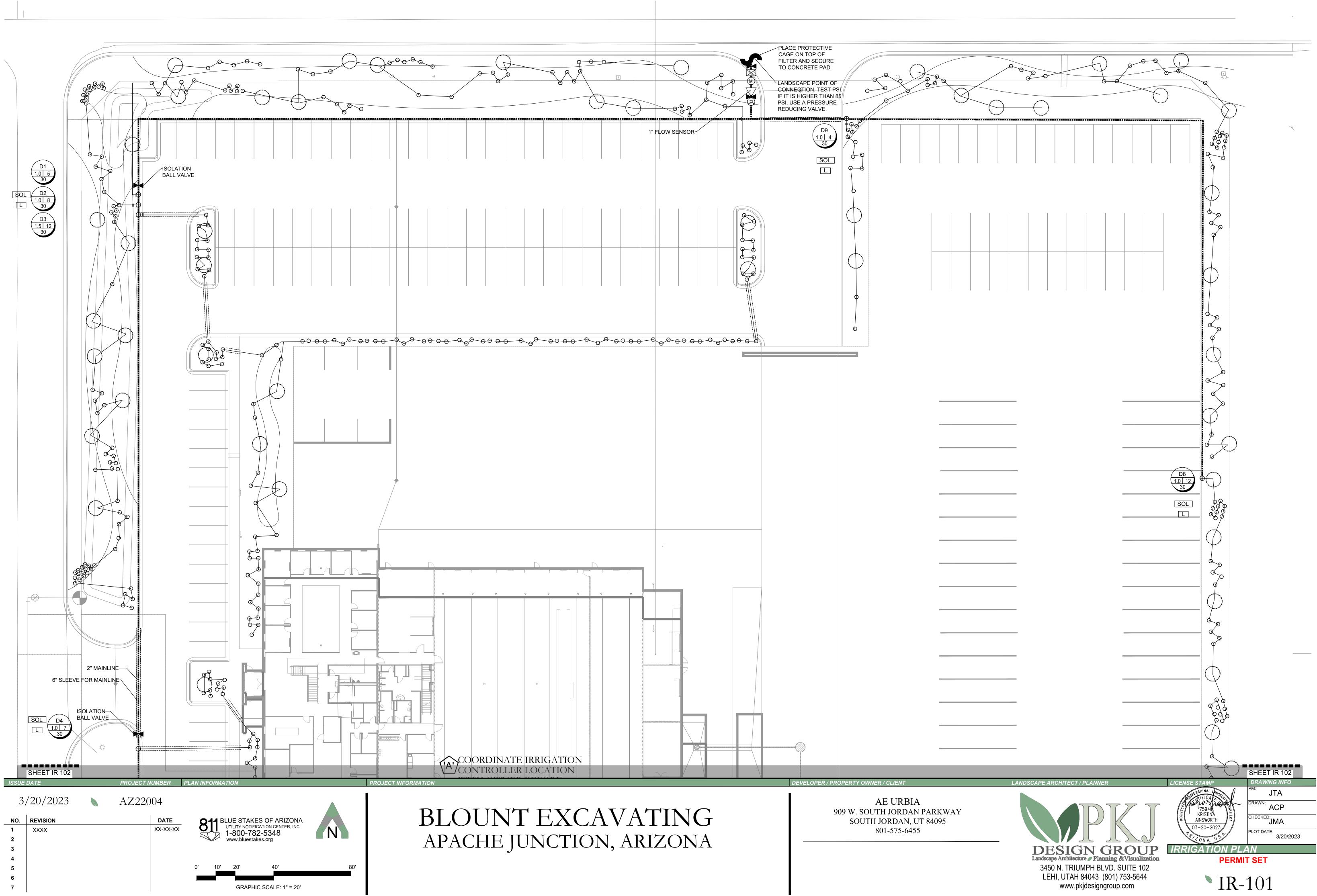


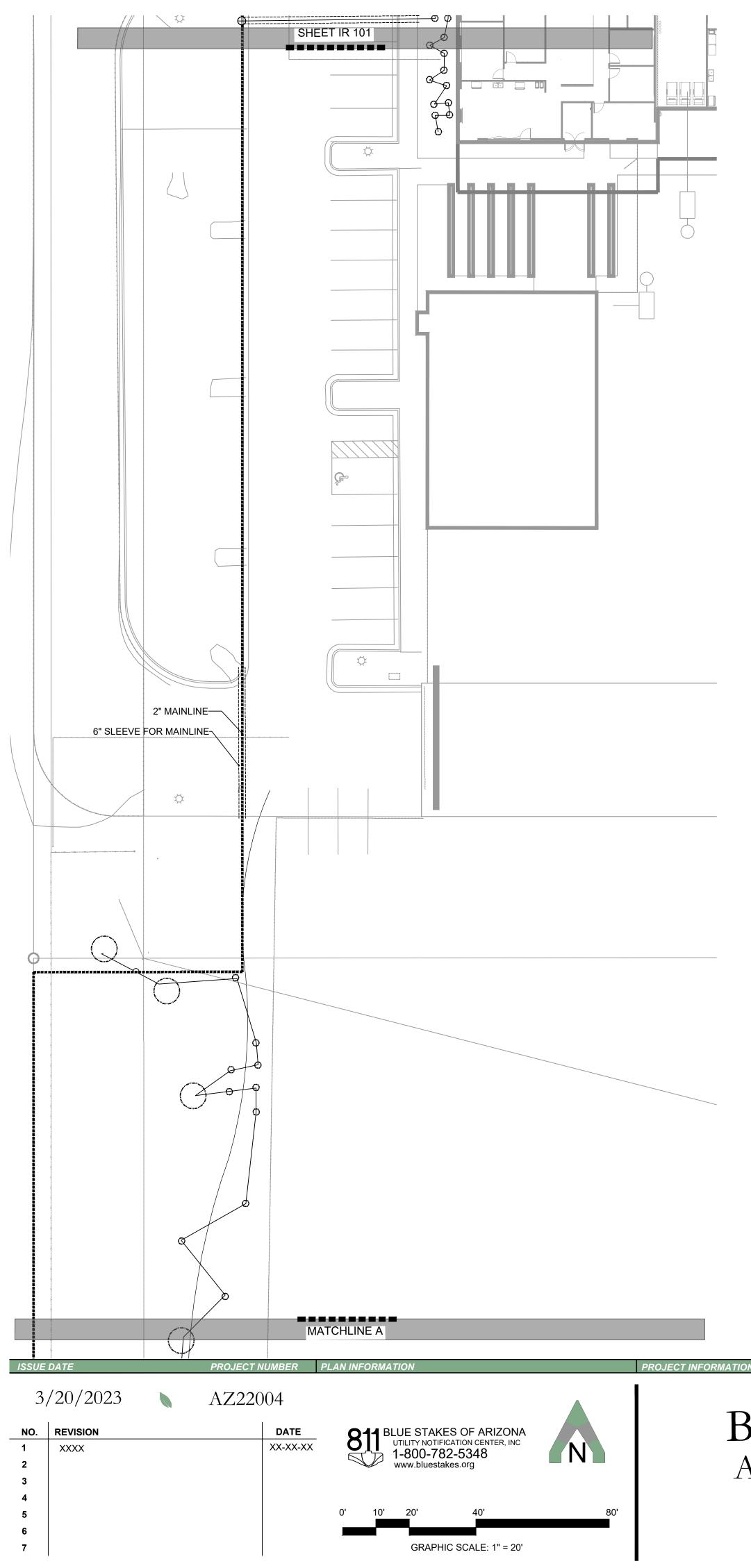


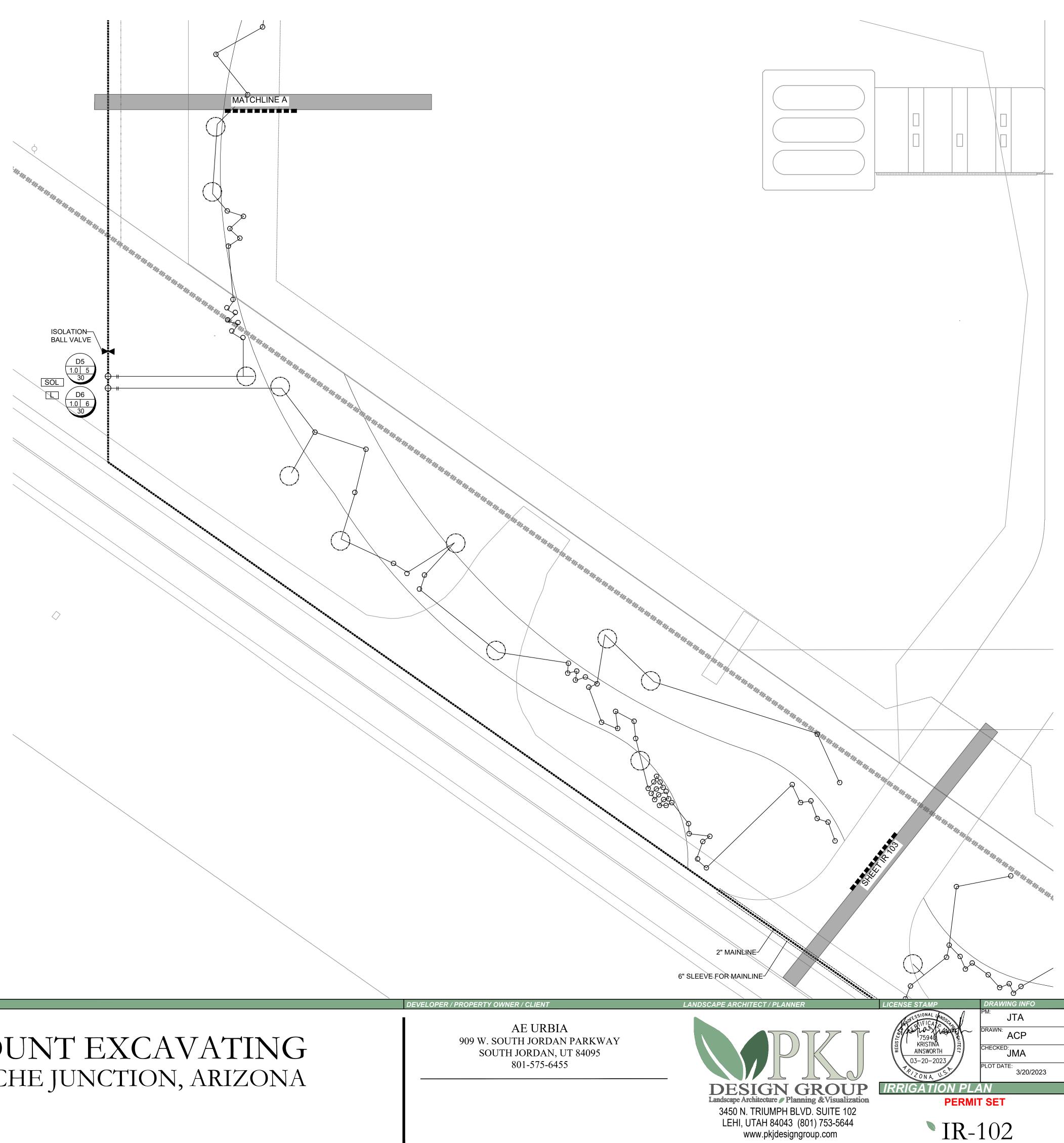
AE URBIA 909 W. SOUTH JORDAN PARKWAY SOUTH JORDAN, UT 84095 801-575-6455

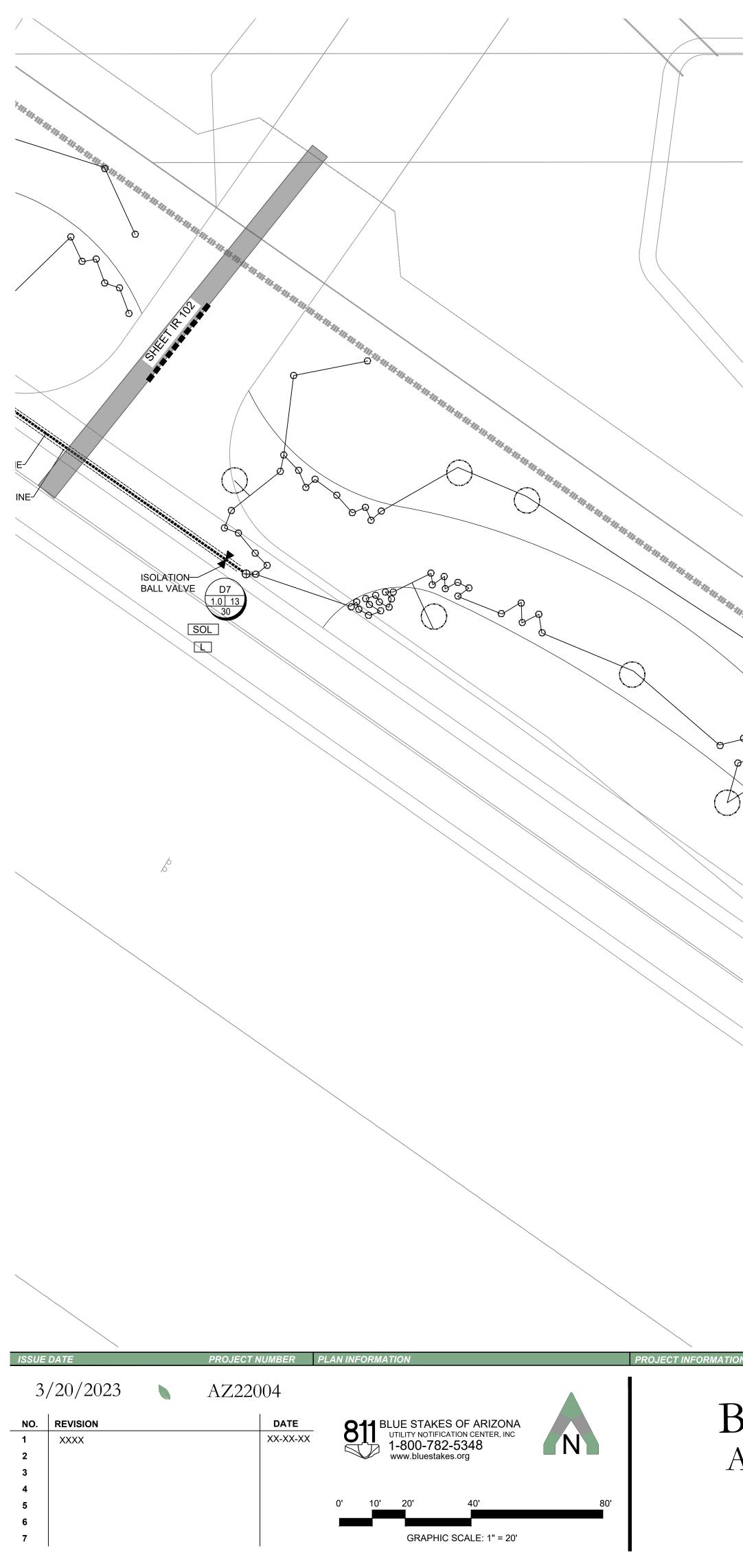
DEVELOPER / PROPERTY OWNER / CLIENT











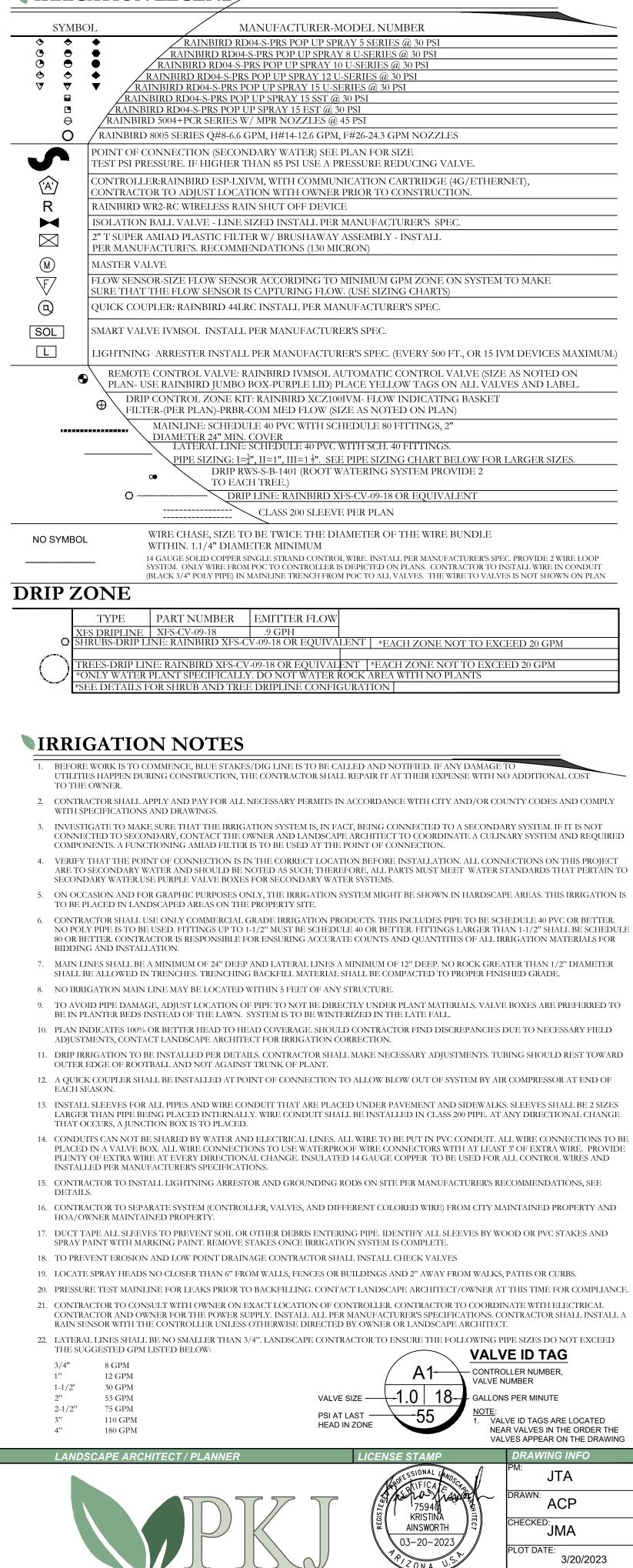
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BLOUNT EXCAVATING APACHE JUNCTION, ARIZONA

600

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IRRIGATION LEGEND



DESIGN GROUP Landscape Architecture Planning & Visualization

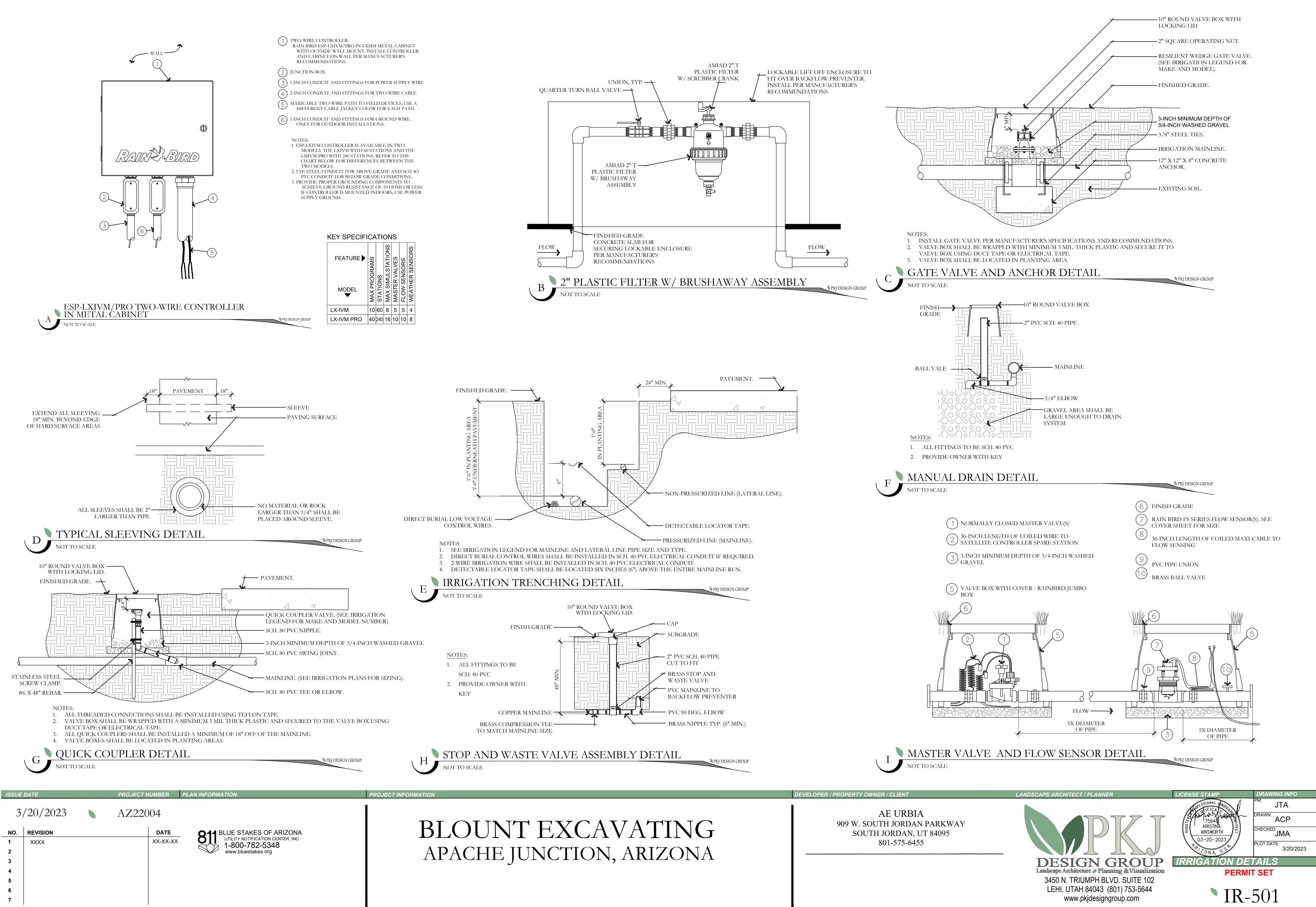
3450 N. TRIUMPH BLVD. SUITE 102 LEHI, UTAH 84043 (801) 753-5644

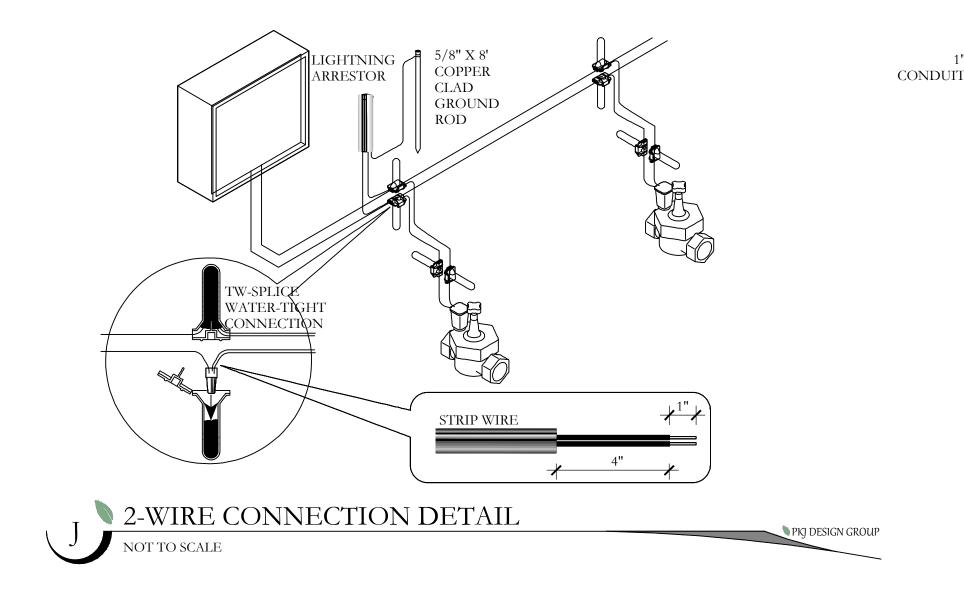
www.pkjdesigngroup.com

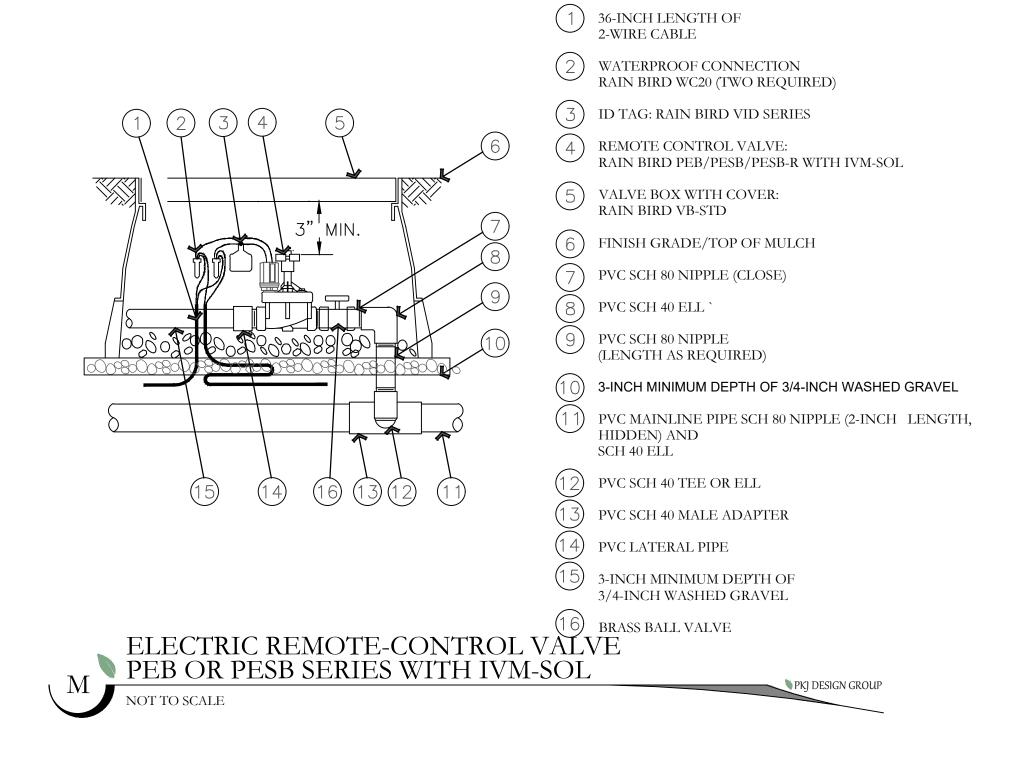
RRIGATION PLAN

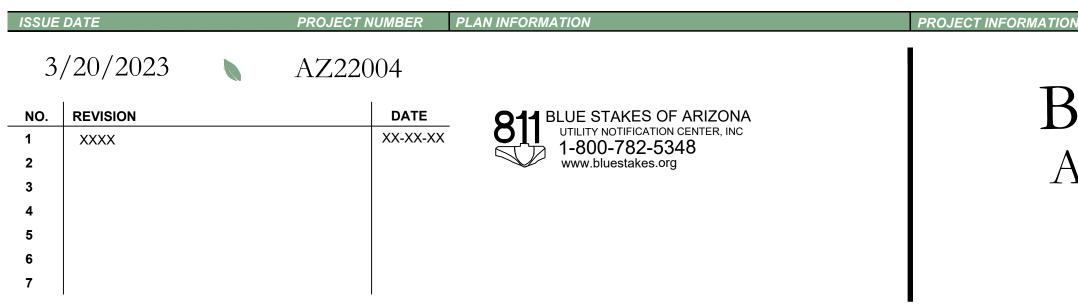
PERMIT SET

IR-103



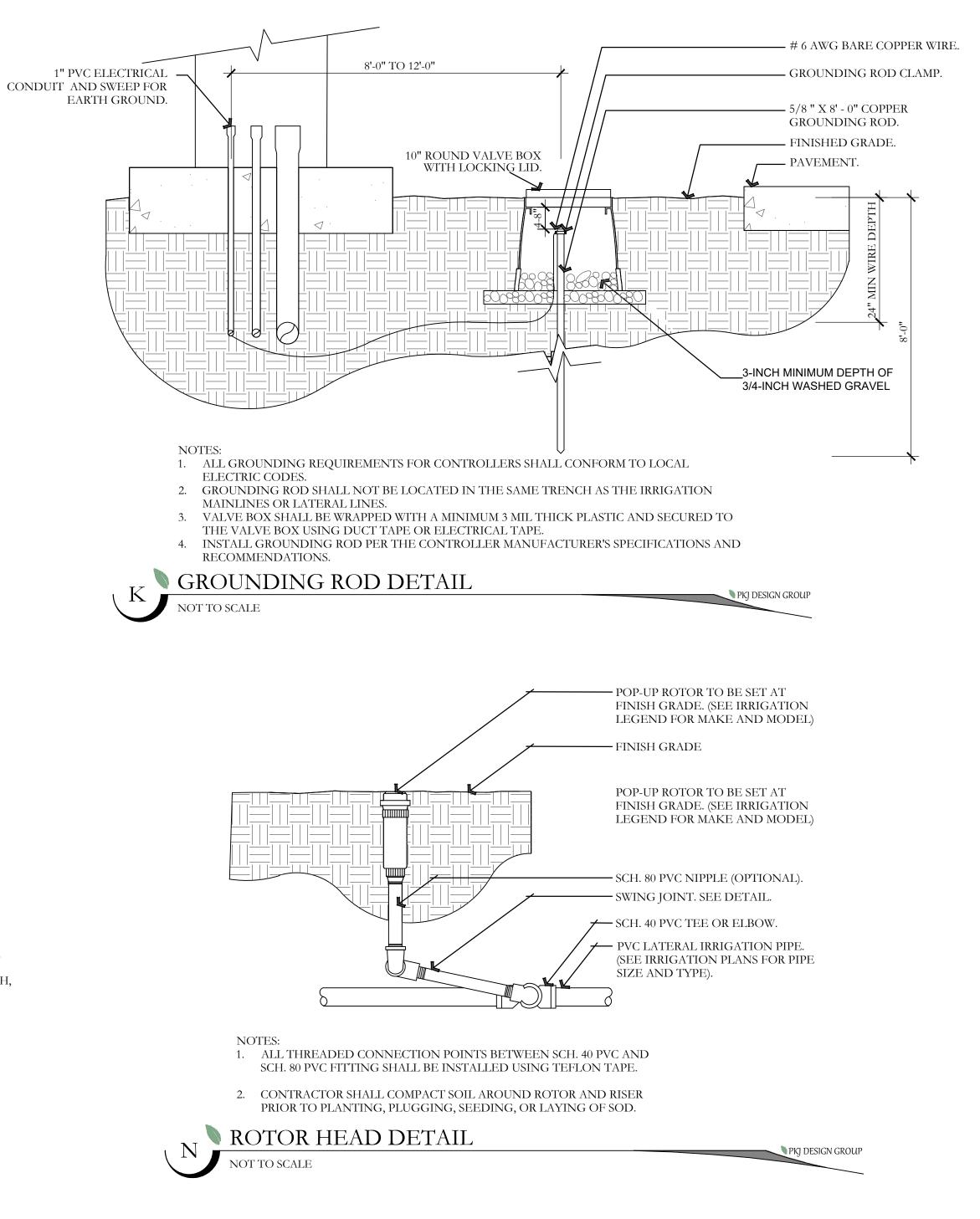


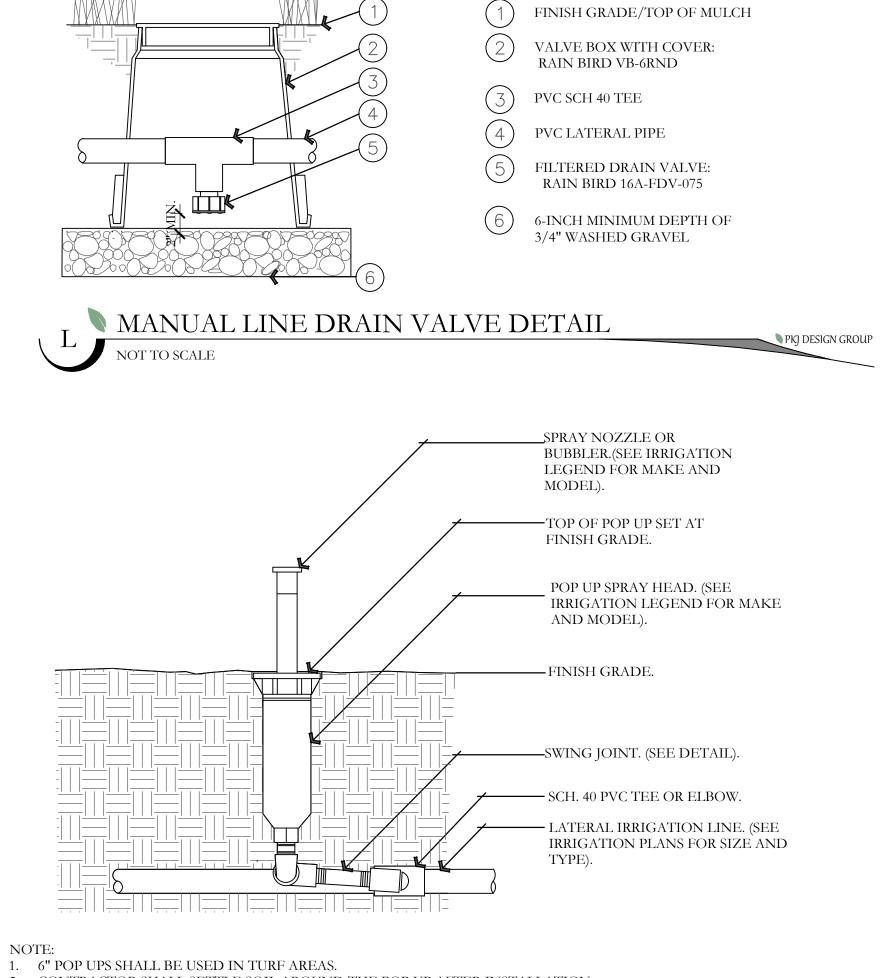




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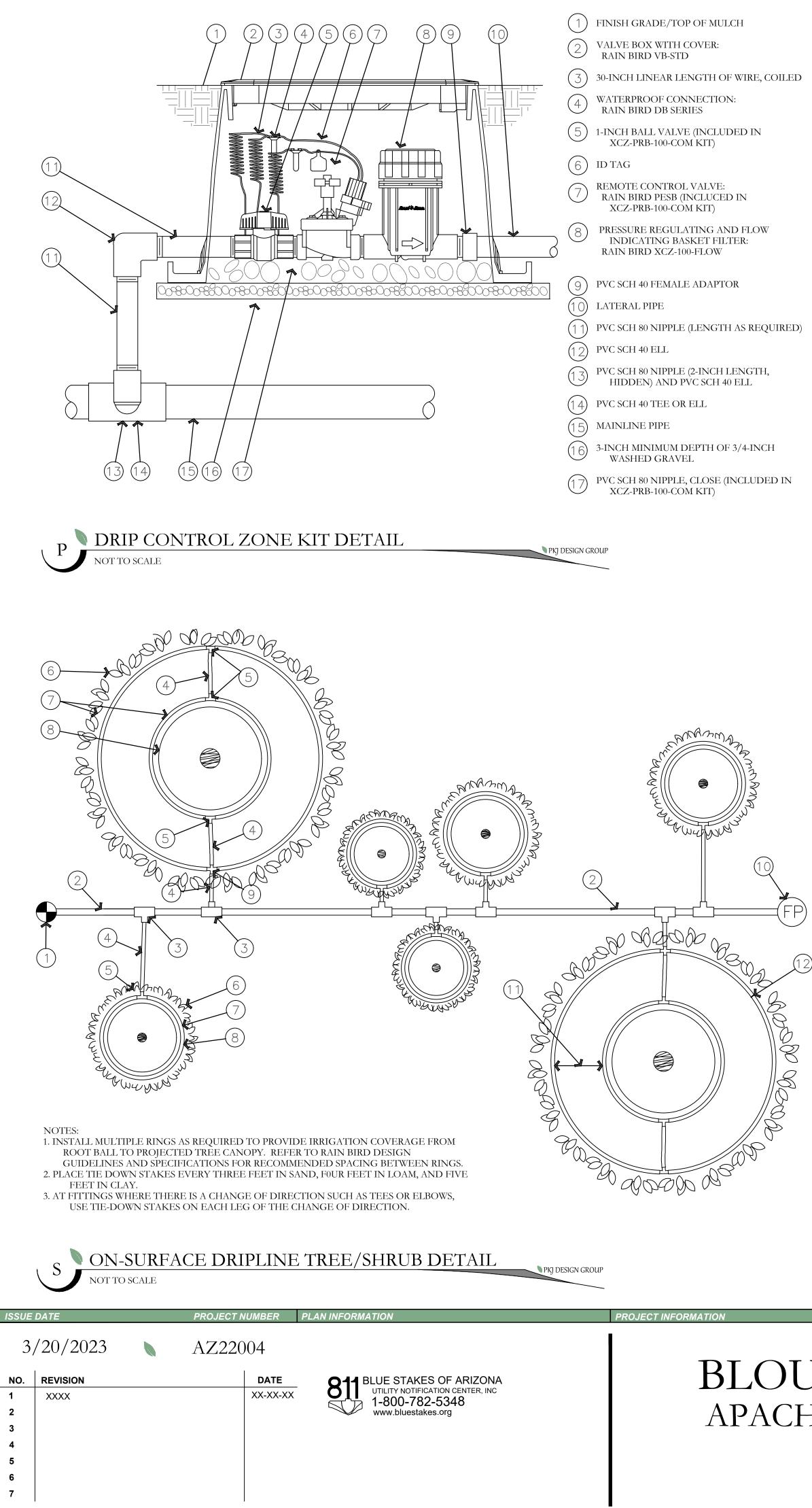
2. CONTRACTOR SHALL SETTLE SOIL AROUND THE POP UP AFTER INSTALLATION.

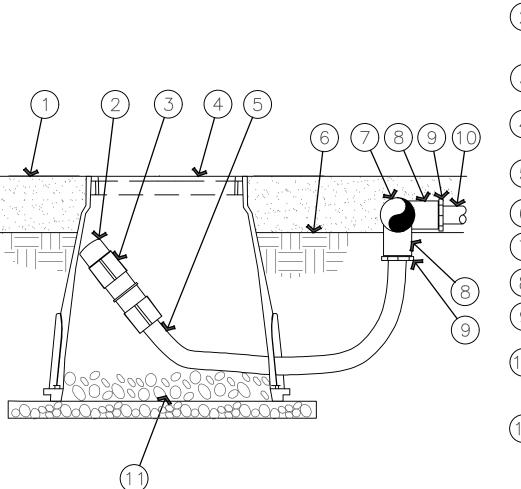
3. ALL POP UP SPRAY HEADS SHALL HAVE CHECK VALVES. 4. ALL SCH. 40 PVC TO SCH. 80 PVC CONNECTIONS SHALL BE MADE USING TEFLON TAPE.



NESIGN GROUP







| (1) | MULCH | |
|----------------|--|-----------|
| 2 | FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE:RAIN BIRD MDCFCAP | |
| 3 | EASY FIT COUPLING: RAIN BIRD MDCFCOUP | - <u></u> |
| 4 | SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB | |
| (5) | ½" POLYETHYLENE TUBING: RAIN BIRD XF BLANK TUBING | |
| 6 | FINISH GRADE | (|
| $\overline{7}$ | PVC EXHAUST HEADER | (|
| 8 | PVC SCH 40 TEE OR EL | |
| 9 | BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL) | |
| 10 | ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE | |

3-INCH MINIMUM DEPTH OF 3/4 " WASHED GRAVEL

NOTE: 1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.



• ON-SURFACE DRIPLINE FLUSH POINT DETAIL NESIGN GROUP NOT TO SCALE

- 1) RAIN BIRD CONTROL ZONE KIT (SIZED TO ACCOMIDATE LATERAL FLOW DEMAND)
- (2) PVC DRIP LATERAL PIPE
- (3) PVC SCH 40 TEE OR EL (TYPICAL)
- ¹/₂" POLYETHYLENE TUBING: RAIN BIRD XF SERIES- S FOR COPPER SHEILD (4)(TYPICAL)
- 5 BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
- 6 PROJECTED CANOPY LINE OF TREE OR SHRUB (TYPICAL)
- 7) ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV SERIES PLACE AS SHOWN (LENGTH AS REQUIRED, TYPICAL)
- (8) ROOT BALL (TYPICAL)
- 9 BARB X BARB INSERT CROSS: RAIN BIRD XFD-CROSS (TYPICAL)
- 10 DRIPLINE FLUSH POINT (SEE RAIN BIRD DETAIL: "XFCV DRIPLINE FLUSH POINT WITH BALL VALVE")
- (1 1) SPACING PER SPECIFICATION
- 12 TIE DOWN STAKE: RAIN BIRD TDS-050 RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)

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