

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	MIN. HT
	11	Crataegus crus-galli inermis / Thornless Cockspur Hawthorn FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		1.5" DBH
	4	Gleditsia triacanthos inermis 'Sunburst' / Sunburst Honey Locust FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		1.5" DBH
	5	Malus x 'Spring Snow' / Spring Snow Crabapple FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		1.5" DBH
	8	Quercus robur x alba 'Crimschmidt' TM / Crimson Spire Oak FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		1.5" DBH
EVERGREEN TREE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	MIN. HT
	1	Pinus ponderosa / Ponderosa Pine FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		6' Ht
	1	Pinus sylvestris / Scotch Pine FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		6' Ht
	9	Pinus sylvestris 'Fastigiata' / Erect Scotch Pine FOR PLANTING SPECIFICATIONS SEE DETAILS 801 & 802, SHEET L2.0	B & B		6' Ht
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT	
	15	Euonymus fortunei 'Colorata' / Purple-leaf Winter Creeper FOR PLANTING SPECIFICATIONS SEE DETAILS 803 & 804, SHEET L2.0	1 gal		6" - 12" Ht.
	17	Hemerocallis x 'Red Hot Returns' / Red Hot Returns Daylily	1 gal		12"-18" H
	31	Panicum virgatum 'Heavy Metal' / Heavy Metal Switch Grass FOR PLANTING SPECIFICATIONS SEE DETAILS 803 & 804, SHEET L2.0	1 gal		2' Ht.
	6	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac FOR PLANTING SPECIFICATIONS SEE DETAILS 803 & 804, SHEET L2.0	7 gal		12"-18" H
	2	Viburnum prunifolium 'Ovazam' TM / Ovation Blackhaw Viburnum FOR PLANTING SPECIFICATIONS SEE DETAILS 803 & 804, SHEET L2.0	5 gal		8' Ht
EVERGREEN SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT	
	8	Juniperus sabina 'Scandia' / Scandia Juniper FOR PLANTING SPECIFICATIONS SEE DETAILS 803 & 804, SHEET L2.0	5 gal		2' height
	9	Juniperus virginiana 'Skyrocket' / Skyrocket Juniper	5 gal		36" height
	15	Juniperus x pfitzeriana 'Sea Green' / Sea Green Pfitzer Juniper	5 gal		2' Ht.
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	CONT		
	4,318 sf	Bouteloua dactyloides / Buffalo Grass PLACE LANDSCAPE EDGING WHERE TURF ADJOINS PLANTING BED. SEE DETAIL 805, SHEET L2.0	sod		

SCHEDULE CONT.

	NATIVE SEED Non-Irrigated Native Seed	17,502 sf
	ROCK MULCH SAMPLE OF ROCK MULCH TO BE PROVIDED TO OWNER AND ARCHITECT FOR APPROVAL. Arkansas Tan nor Denver Granite. Size: 1"-3" Rock. Depth: 3" Depth	1,985 sf
	EROSION CONTROL BLANKET Double Netted Straw Erosion Control Blanket	17,502 sf

GENERAL LANDSCAPE NOTES

- The Contractor shall verify and coordinate all final grades with the Landscape Architect and or design team prior to completion.
- Location and placement of all plant material shall be coordinated with the Landscape Architect prior to installation.
- Location of all utilities are approximate, the Contractor shall field verify locations prior to commencement of construction operations.
- Refer to Civil Drawings for all grading and berming, erosion control, storm drainage, utilities and site layout.
- Plant quantities are for information only, drawing shall prevail if conflict occurs. Contractor is responsible for calculating own quantities and bid accordingly.
- Tree locations in areas adjacent to drives, walks, walls and light fixtures may be field adjusted as approved by Landscape Architect.
- The Contractor shall report subsurface soil or drainage problems to the Landscape Architect.
- The plan is subject to changes based on plant size and material availability. All changes or substitutions must be approved by the El Paso Count, Falcon, Colorado and the Landscape Architect.
- Aluminum landscape edging to be used on all landscape beds adjoining turf areas as noted on landscape plans.
- Landscape Contractor shall be responsible for watering all plant material until the time that a permanent water source is ready.
- The Contractor shall show proof of procurement, sources, quantities, and varieties for all shrubs, perennials, ornamental grasses, and annuals within 21 days following the award of the contract.
- Contractor shall provide full maintenance for newly landscaped areas for a period of 30 days after the date of final acceptance. At the end of the maintenance period, a healthy, well-rooted, even-colored, viable turf and landscaped area must be established. The landscaped areas shall be free of weeds, open joints, bare areas, and surface irregularities.

GENERAL IRRIGATION NOTES

- Irrigation plan to be provided during permitting phase of development
- Irrigation plan to not interfere with any proposed improvements shown.
 - Irrigation system design to be based on available psi. Minimum operating pressure for spray heads shall be 30 psi and minimum operating pressure for drip zones shall be 40 psi.
 - The contractor shall be responsible for providing uninterrupted, 110 v electrical service to the controller and for all hook-ups. All exposed low voltage wire shall be enclosed in a conduit.
 - Place valve boxes 12" minimum from and parallel to curbs and walks, grouped valves to be equally spaced.
 - Install all mainlines to 1% minimum slope to drain valves located at low points of main system.
 - Irrigation controller and rain sensor shall be located in owner approved locations.

SITE DATA

	Quantity	Required	Provided
Site Area	59,677		
Open Space Req			
min 15% of lot		8,951.58	23,805
1 tree/ 500 SF of internal LA area		17.90	20
Roadway Landscaping			
E Woodmen Rd (S)	232.65		
1 tree/20 ft		11.63	12
Private Drive (N)	183.15		
1 tree/30 ft		6.11	7
Parking Screening Landscape			
Continuous screen of 3' shrubs		Y	Y
Island/Interior Landscape			
Parking provided	48		
1 tree/15 spaces		3.2	4
Utility Screening			
Above ground cabinets should be screened w/landscaping		Y	Y



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REVISIONS:

BLDG COMMENTS	DATE
	04-15-22

ISSUE DATE:

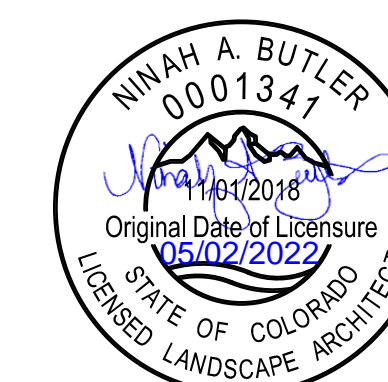
1ST PERMIT/BID SET	07-15-2021
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DRAWN BY: JA

PANDA PROJECT #: S8-22-D8137

PANDA STORE #: -

ARCH PROJECT #: 20044.016



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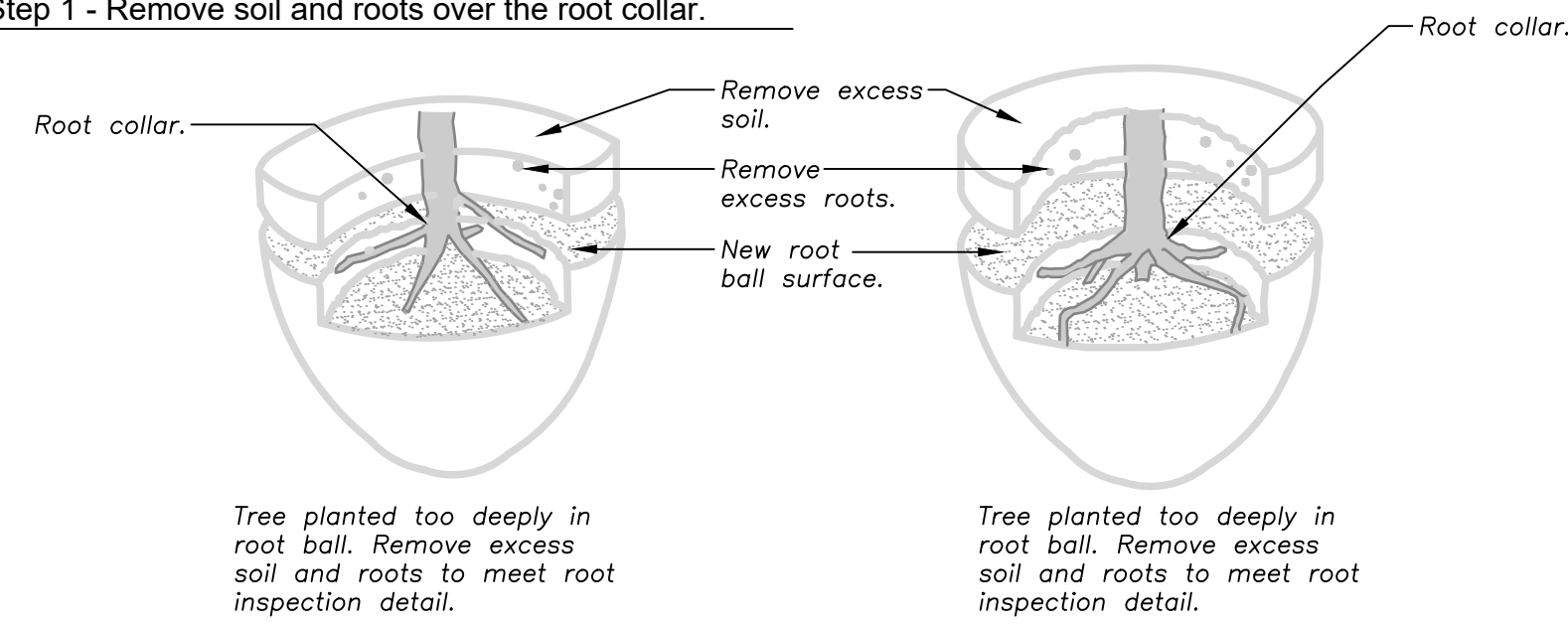
LANDSCAPE PLAN

L1.0



PCD FILE #PPR2137

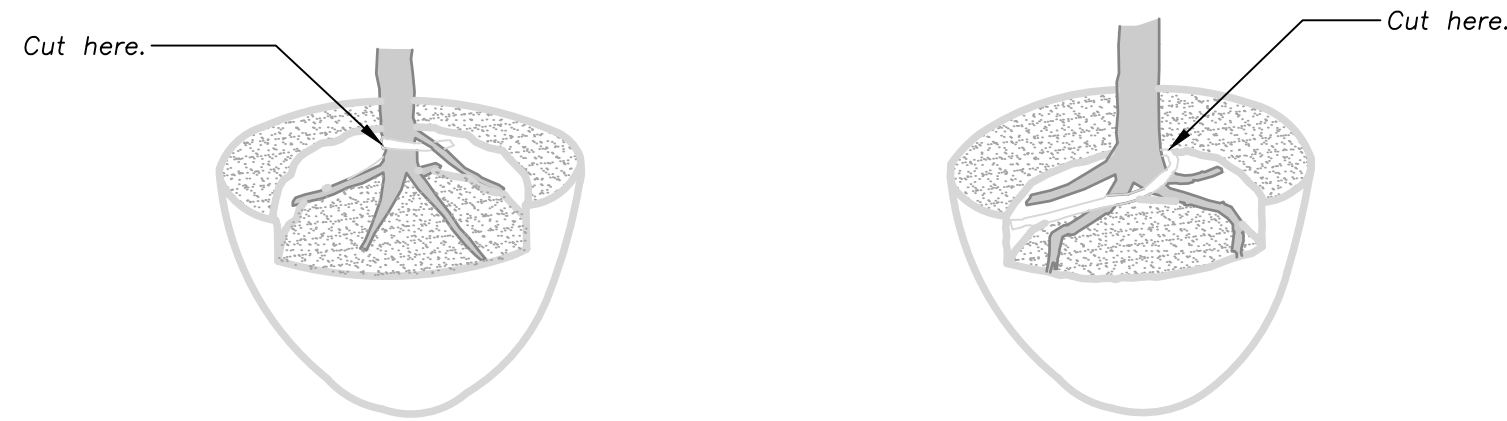
Step 1 - Remove soil and roots over the root collar.



Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

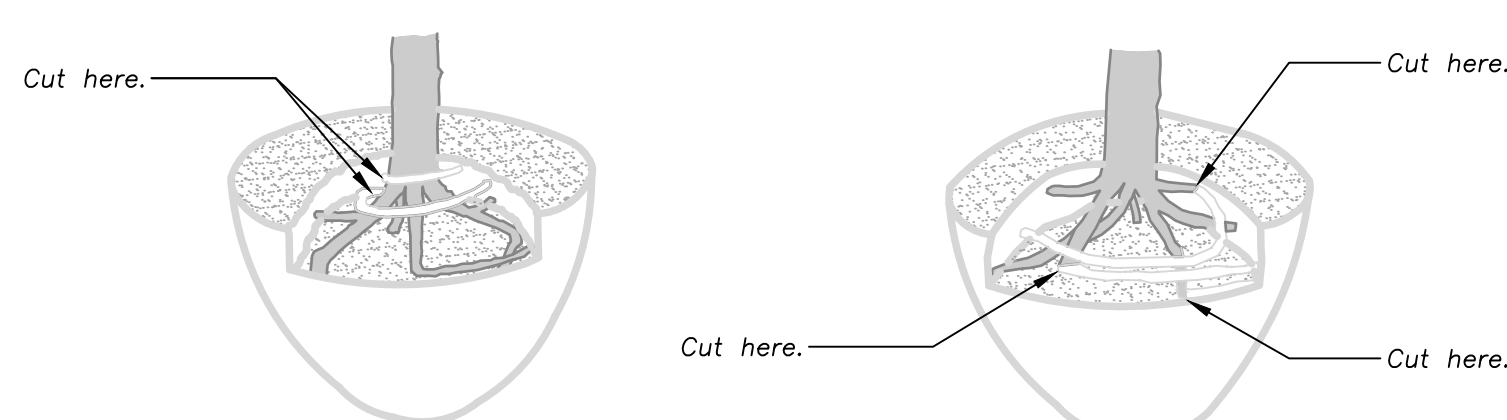
Tree planted too deeply in root ball. Remove excess soil and roots to meet root inspection detail.

Step 2 - Remove defects.



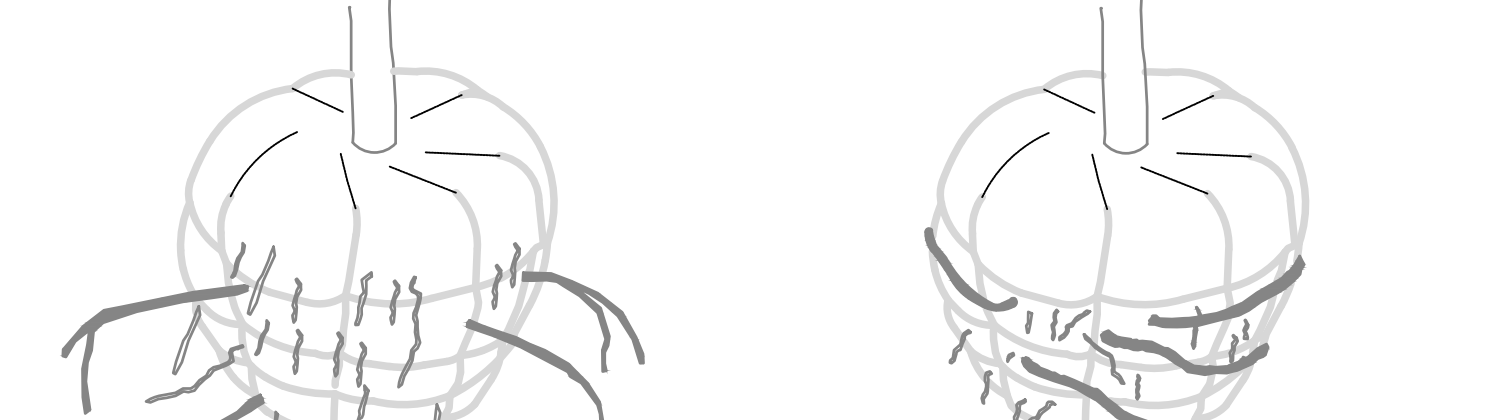
Five structural (large) roots shown in black. Remove structural (white) root wrapping over root collar.

Four structural roots shown in black. Remove root (white) growing over structural roots.



Six structural roots shown in black. Remove structural roots (white) growing over root collar by cutting them just before they make an abrupt turn.

Seven structural roots shown in black. Remove structural roots (white) growing around or over root collar by cutting them just before they make an abrupt turn.



Remove structural roots (4 shown in black) extending from root ball.

Remove structural roots (4 shown in black) deflected on root ball periphery. Small roots (1/4" or less) at the periphery of the root ball are not defined as defects and do not need to be removed.

- Notes:**
 1- All trees shown are rejectable unless they undergo recommended correction.
 2- First step 1, then step 2. Adjust hole depth to allow for the removal of excess soil and roots over the root collar.
 3- Roots and soil may be removed during the correction process; substrate/soil shall be replaced after the correction has been completed.
 4- Trees shall pass root observations detail following correction.

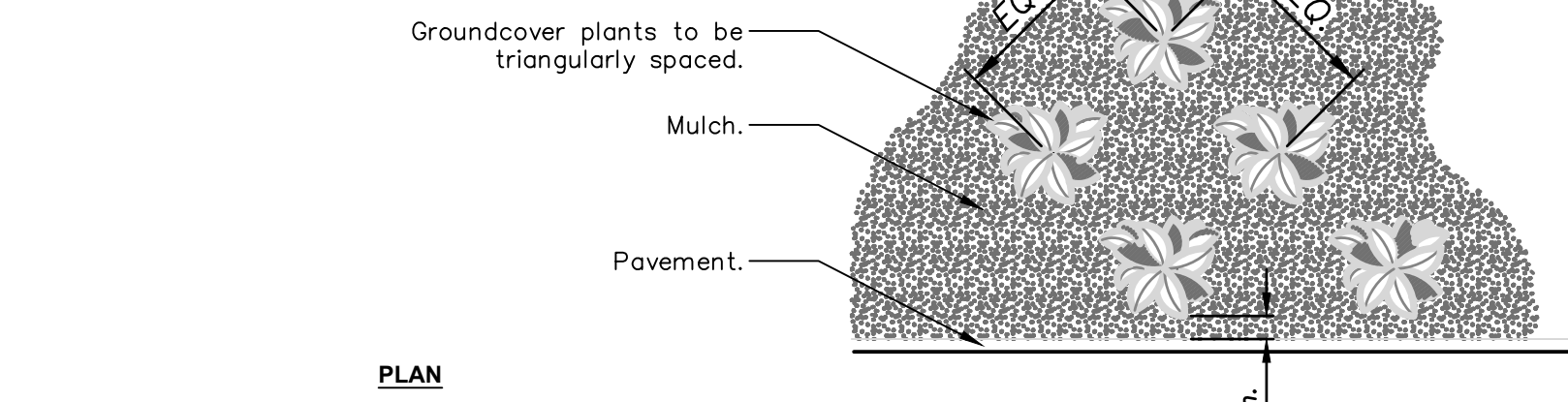
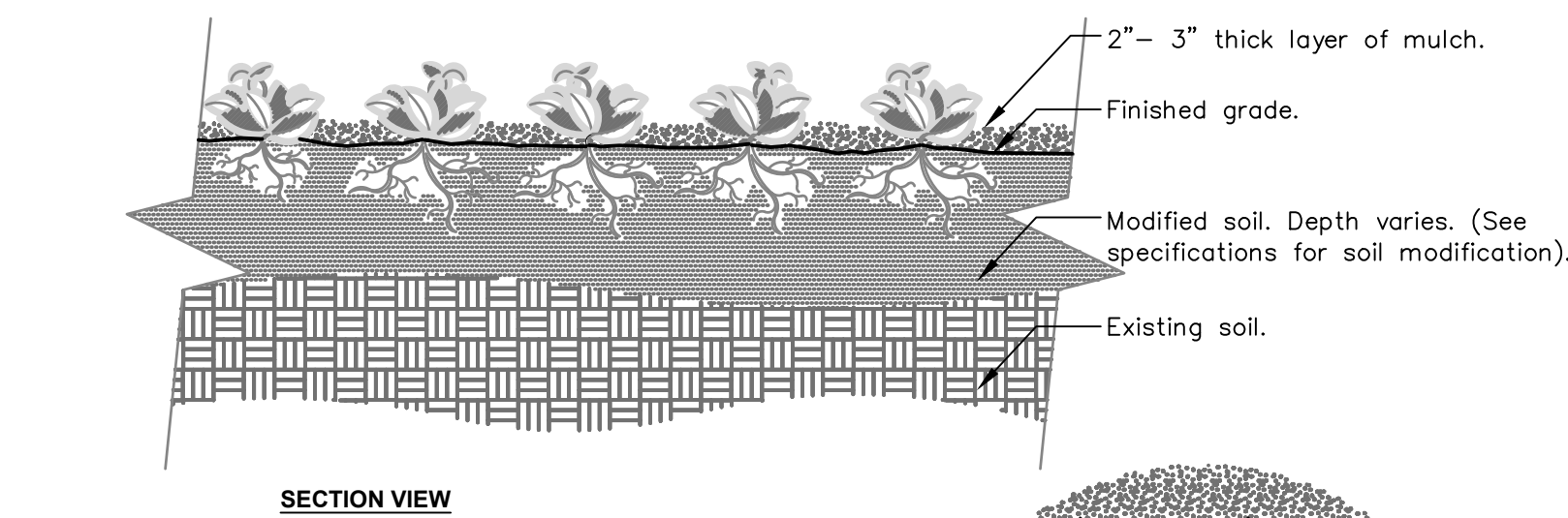
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801 ROOT BALL CORRECTION DETAIL

Not to Scale

803 SHRUB PLANTING DETAIL

Not to Scale

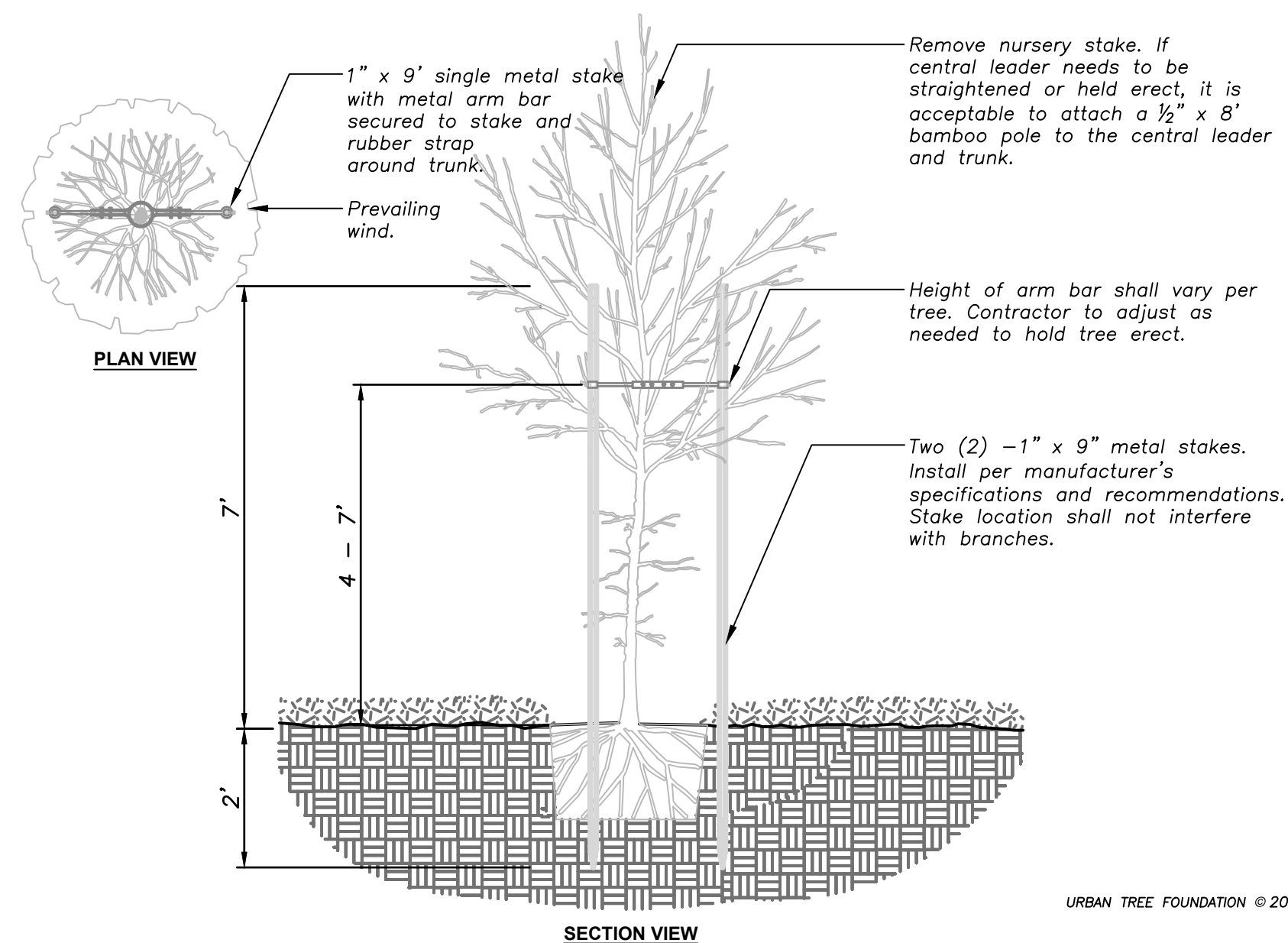


- Notes:**
 1- See planting legend for groundcover species, size, and spacing dimension.
 2- Small roots (1/4" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periphery can be removed at the time of planting. (See root ball shaving container detail).
 3- Settle soil around root ball of each groundcover prior to mulching.

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804 GROUNDCOVER SPACING DETAIL

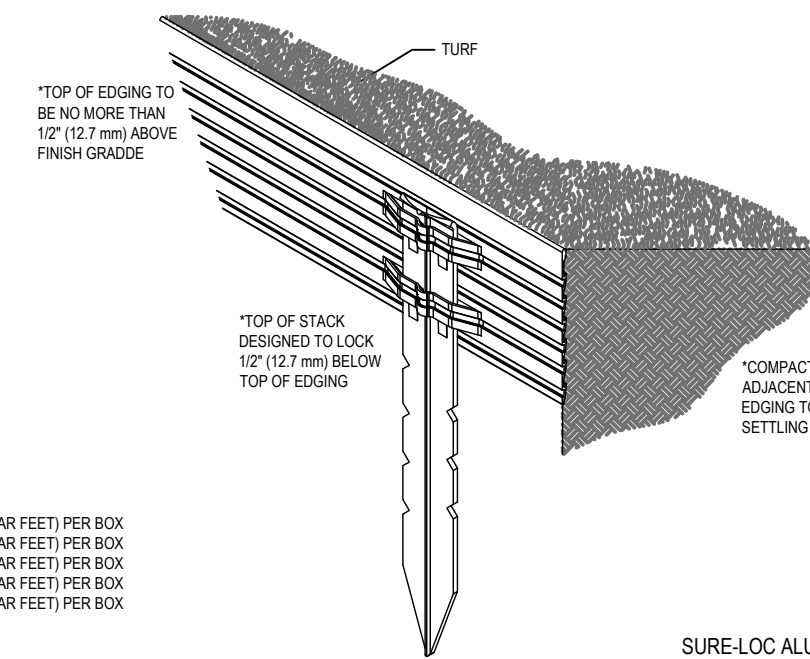
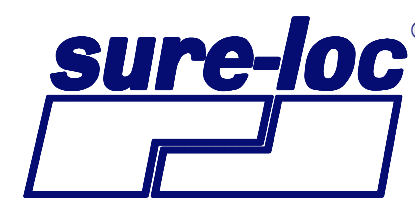
Not to Scale



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802 TREE STAKING DETAIL

Not to Scale



- NOTES:**
 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWINGS.
 3. CONTRACTORS NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT www.CADetails.com/info
 REFERENCE NUMBER 200-005

805 ALUMINUM LANDSCAPE EDGING DETAIL

Not to Scale

PLANTING NOTES

- Location of all existing utilities needs to be done before commencing work.
- The planting plan graphically illustrates overall plant massings. Each plant species massing shall be placed in the field to utilize the greatest coverage of ground plane. The following applies for individual plantings:
 - Creeping groundcover shall be a minimum of 6" from paving edge.
 - All trees shall be a minimum of 3 ft. from paving edge.
 - All plants of the same species shall be equally spaced apart and placed for best aesthetic viewing.
 - All shrubs shall be a minimum of 2 ft. from paved edge.
- Mulch all planting bed areas to a minimum depth of 3". Mulch individual trees to a minimum depth of 2".
- Note: If plants are not labeled - they are existing and shall remain.
- All landscaped areas in right of way shall be sodded and irrigated unless otherwise specified.

MATERIALS:

- Plant material shall be healthy, vigorous, and free of disease and insects as per AAN standards.
- Kind, size and quality of plant material shall conform to American Standard for nursery stock, ANSI-Z60-2004, or most recent edition.
- Shredded bark mulch installed at trees shall be finely chipped and shredded hardwood chips, consisting of pure wood products and free of all other foreign substances. Pine bark compost mulch installed at planting bed areas shall be free of all other foreign substances.

INSTALLATION:

- All compacted soil within the area to be landscaped shall be removed to a depth of not less than two (2) feet and shall be backfilled with topsoil.
- Prepare planting beds by incorporating an approved composed organic soil into existing soil for all shrub, perennial, and annual planting beds at a minimum depth of 6". Thoroughly mix organic material into the existing soil by roto-tilling or other approved method to a minimum depth of 12".
- Planting of trees, shrubs, and seeded groundcover shall be commenced during either the spring (March 15 - June 15) or fall (September 1 - October 15) planting season and with water available for hand irrigation purposes.
- Apply liquid, root stimulator, to all shrubs and groundcovers at rates recommended by manufacturer during first planting watering following installation.
- All planting beds will be prepared with polypropylene landscape fabric before plant material is installed. Rock mulch to be placed over polypropylene landscape fabric at a depth of 2" - 4".
- Landscape fabric should be installed flat with all folds either pinned down with 4" landscape pins, overlap adjoining sheets a minimum of 2 - 4" steel landscape staples to be used to pin down the corners before rock mulch is installed.
- After plants have been installed, all planting beds shall be treated with dacthal pre-emergent herbicide prior to mulch application.
- Plant pit backfill for trees and shrubs shall be 20% peat or well composted manure and 80% topsoil.
- Trees planted in landscaped planting areas shall be situated a minimum of three (3) feet from any curb.
- Plant material shall be maintained and guaranteed for a period of one year after owner's acceptance of finished job. All dead or damaged plant material shall be replaced at landscape contractor's expense.
- Landscape contractor shall maintain all plant material until final acceptance, at which point the one year guarantee begins.
- All landscape beds shall be level with surrounding hardscape.

SOD NOTES

- All disturbed areas shall be sodded/seeded with turf-type tall fescue sod with a minimum of three cultivars.
- All landscaped areas shall receive a minimum 6-inch depth of topsoil compacted to 85% density at optimum moisture content.
- The entire surface to be landscaped should be reasonable smooth and free from stones, roots or other debris.
- Sod shall be machine stripped at a uniform soil thickness of approximately one inch (plus or minus 1/4-inch). The measurement for thickness shall exclude top growth and thatch, and shall be determined at the time of cutting in the field. Precautions shall be taken to prevent drying and heating, sod damaged by heat and dry conditions, and sod cut more than 18 hours before being incorporated into the work shall not be used.
- Handling of sod shall be done in a manner that will prevent tearing, breaking, drying and other damage. Protect exposed roots from dehydration. Do not deliver more sod than can be laid within 24 hours.
- Moisten prepared surface immediately prior to laying sod, water thoroughly and allow surface to dry before installing sod, fertilize, harrow or rake fertilizer in the top 1-1/2-inches of topsoil, at a uniform rate.
- Fertilizer shall be 20-10-5 commercial fertilizer of the grade, type, and form specified and shall comply with the rules of the state dept. of agriculture. fertilizer shall be identified according to the percent N,P,K in that order.
- Saturate sod with fine water spray within two hours of planting. During the first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of four inches.

PCD FILE #PPR2137



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REVISIONS:

NO.	DESCRIPTION	DATE

ISSUE DATE:

1ST PERMIT/BID SET 07-15-2021

DRAWN BY: JA

PANDA PROJECT #: S8-22-D8137

PANDA STORE #: -

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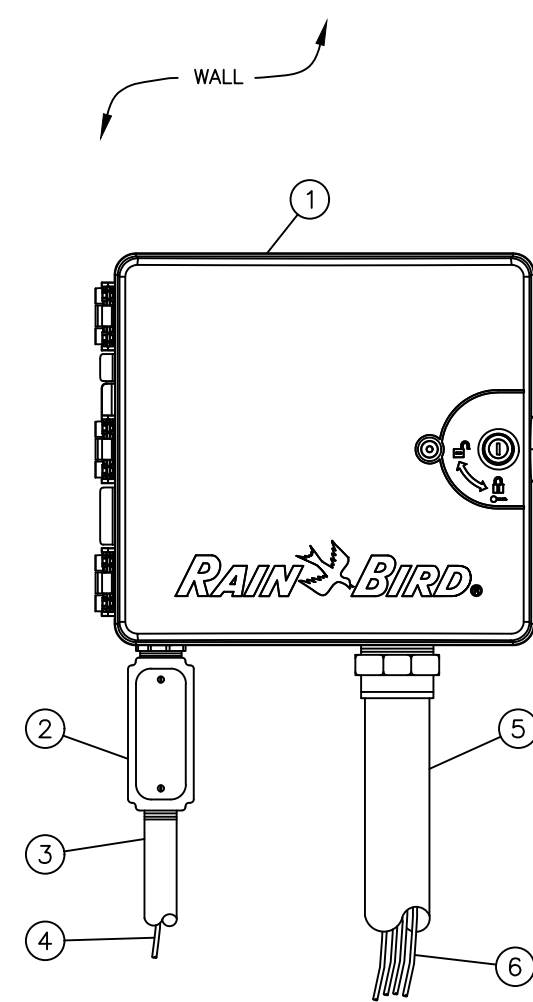
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LANDSCAPE DETAILS

L2.0

TRUE WARM & WELCOME 2300 R6

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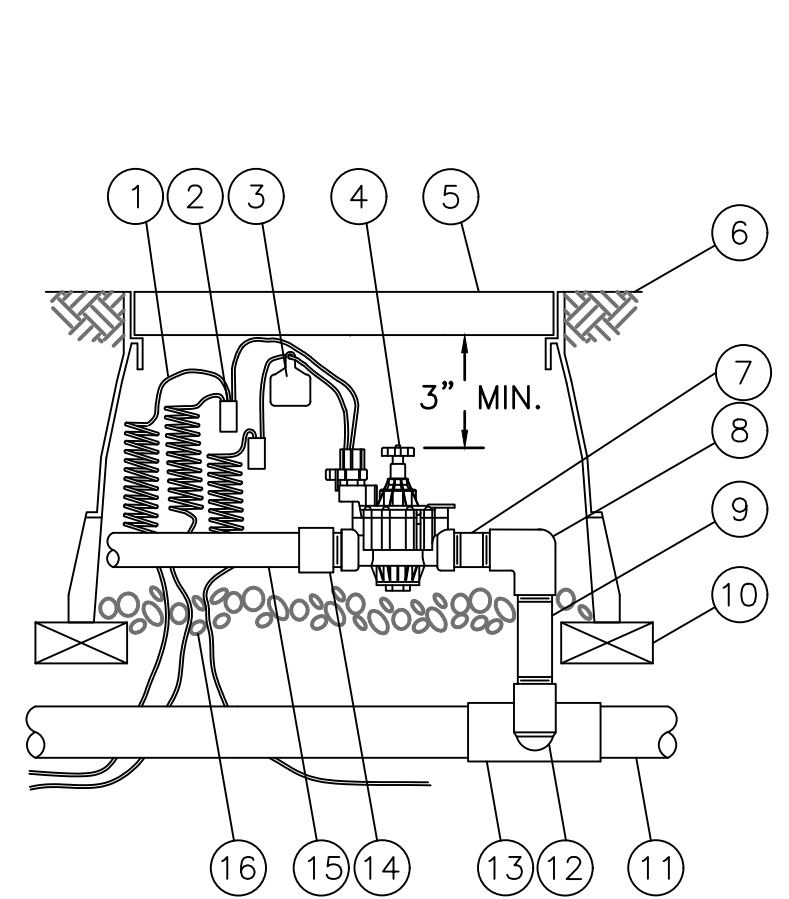


- 1 IRRIGATION CONTROLLER: RAIN BIRD ESP-LXME CONTROLLER IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- 4 POWER SUPPLY WIRE
- 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- 6 WIRES TO REMOTE CONTROL VALVES

NOTES:
 1. ESP-LXME CONTROLLER IS AVAILABLE IN 8- OR 12-STATION BASE MODELS. ADDITIONAL MODULES IN 4-, 8- AND 12-STATION VERSIONS MAY BE ADDED TO BRING THE CONTROLLER UP TO 48 STATIONS MAXIMUM.
 2. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
 3. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

901 RAINBIRD ESP-LXME CONTRILLER DETAIL

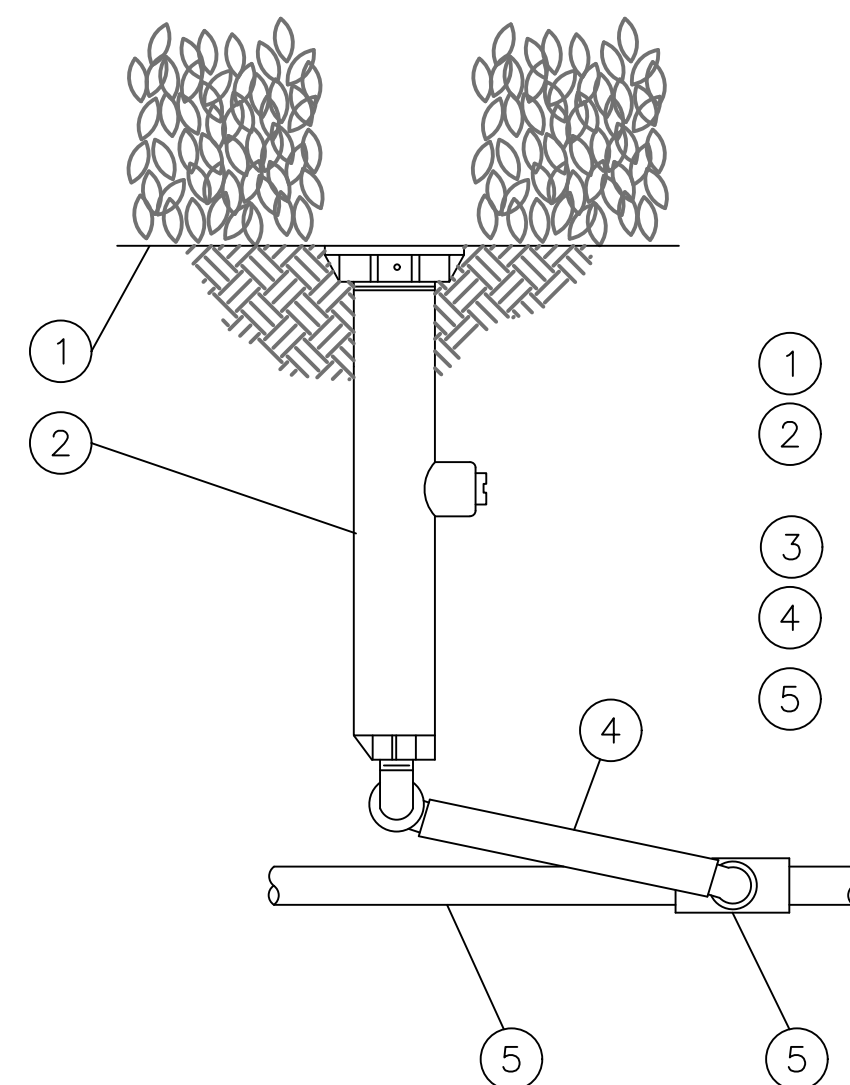
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- 1 30-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
- 3 ID TAG: RAIN BIRD VID SERIES
- 4 REMOTE CONTROL VALVE: RAIN BIRD PGA
- 5 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 6 FINISH GRADE/TOP OF MULCH
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

902 RAINBIRD REMOTE CONTROL VALVE DETAIL

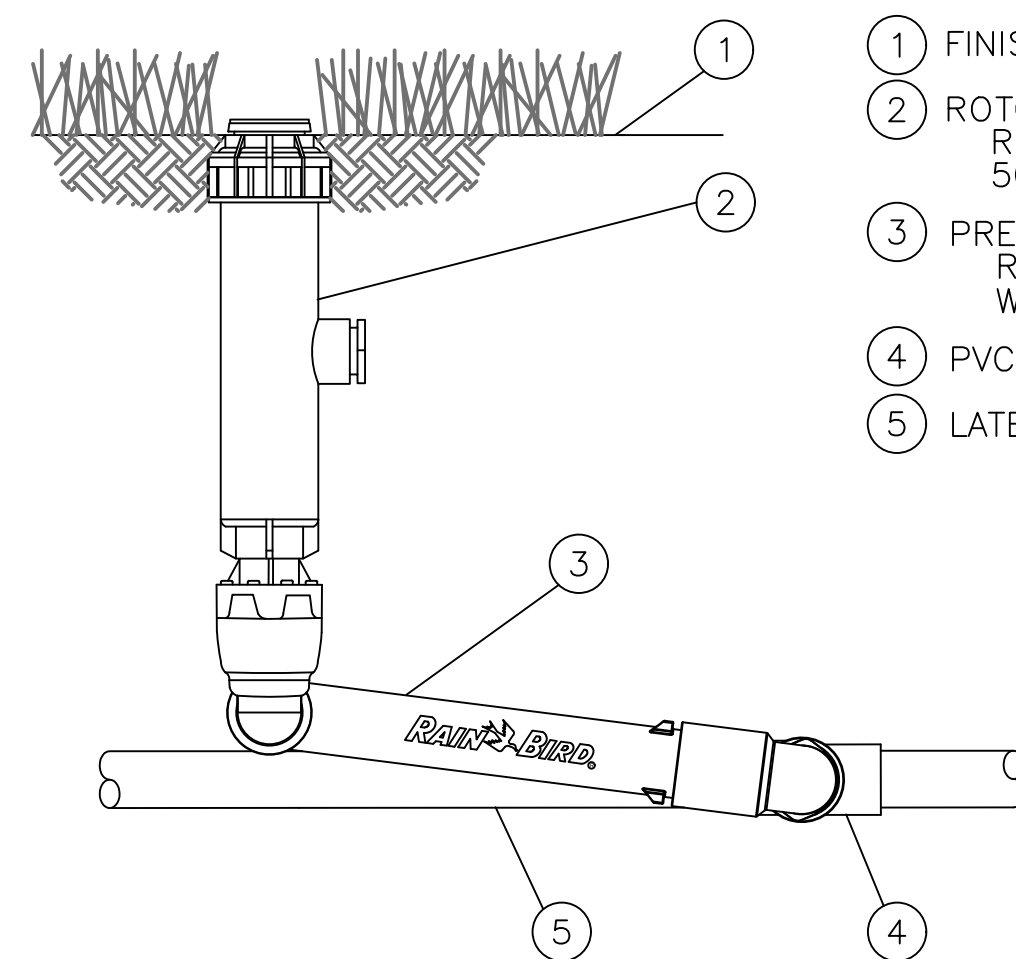
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- 1 FINISH GRADE/TOP OF MULCH
- 2 POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SAM-PRS WITH 1800 VPC WITH RAIN BIRD ROTARY NOZZLE
- 3 PVC LATERAL PIPE
- 4 SWING ASSEMBLY: RAIN BIRD MODEL SA 6050
- 5 PVC SCH 40 TEE OR ELL

903 POP-UP SPRINKLER W/SWING PIPE DETAIL

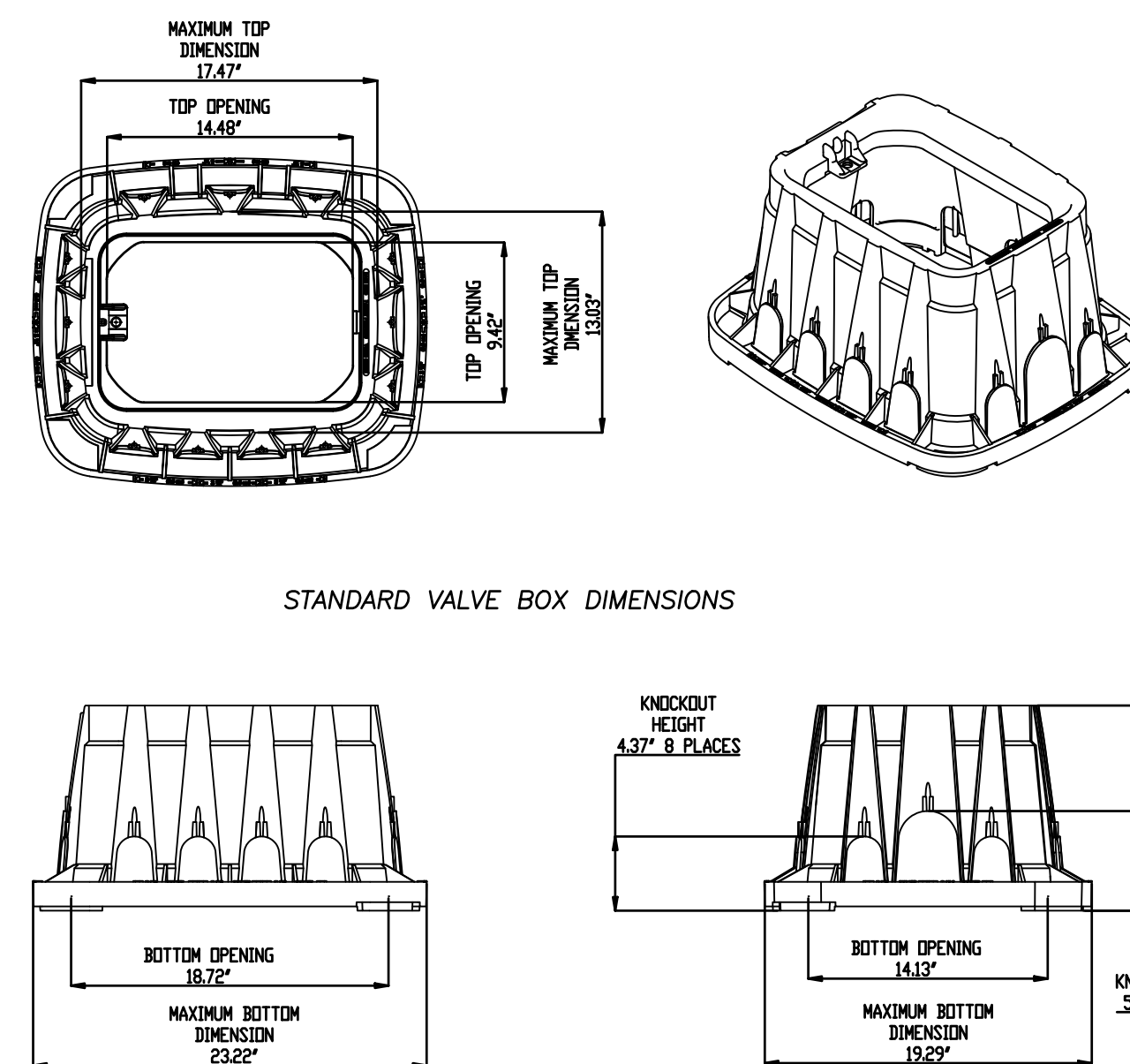
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- 1 FINISH GRADE
- 2 ROTOR POP-UP SPRINKLER: RAIN BIRD 5006 5006-FC/PC-SAM
- 3 PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-075-PRS WITH 45 PSI PRESSURE REGULATOR
- 4 PVC SCH 40 TEE OR ELL
- 5 LATERAL PIPE

904 RAINBIRD ROTOR POP-UP SPRINKLER DETAIL

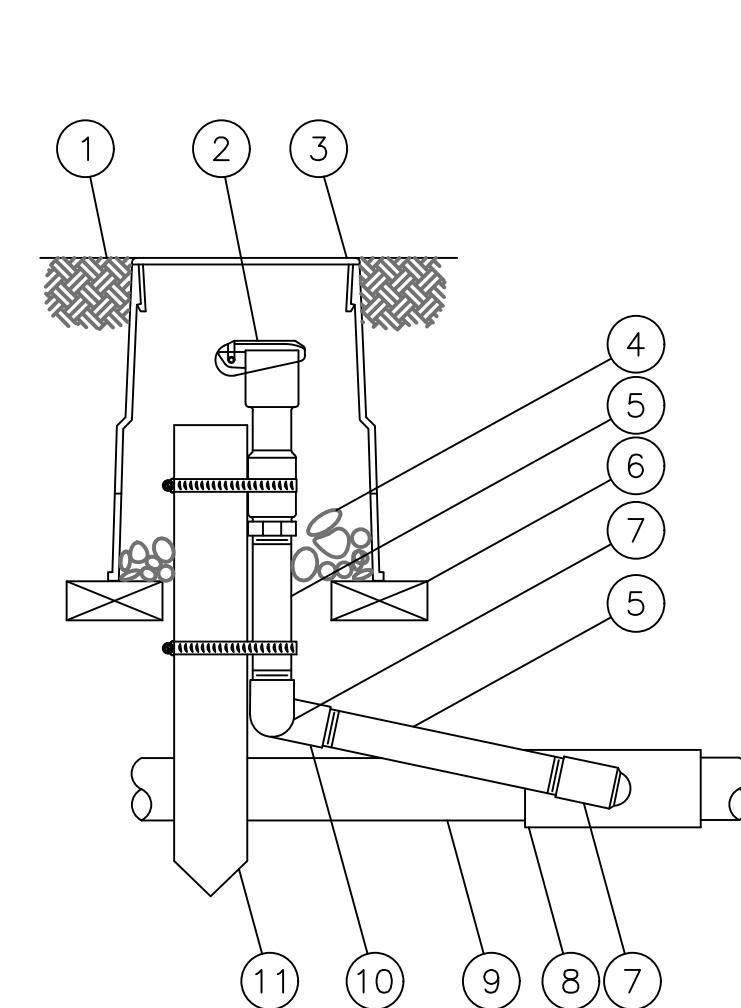
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STANDARD VALVE BOX DIMENSIONS

905 STANDARD VALVE BOX DETAIL

Not to Scale



- 1 FINISH GRADE/TOP OF MULCH
- 2 QUICK-COUPLING VALVE: RAIN BIRD MODEL 5NP
- 3 VALVE BOX WITH COVER: RAIN BIRD VB-6RND
- 4 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- 5 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 6 BRICK (1 OF 2)
- 7 PVC SCH 40 STREET ELL
- 8 PVC SCH 40 TEE OR ELL
- 9 PVC MAINLINE PIPE
- 10 PVC SCH 40 ELL
- 11 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

NOTE:
 FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLER VALVE INLET SIZE.

906 RAIN BIRD QUICK COUPLER VALVE DETAIL

Not to Scale

IRRIGATION NOTES

1. The system design assumes a minimum available static pressure for the irrigation system of 75 psi at the 1 inch meter. Contractor to verify pressure and flow on site prior to construction and report and discrepancies between these assumptions and actual field conditions in writing to the owner's representative.
2. Read thoroughly and become familiar with the specifications and installation details for this and related work prior to construction.
3. Coordinate location and marking of underground utilities prior to construction. Notify the owner's representative of any conflict with any underground utility.
4. Do not proceed with the installation of the irrigation system when it is obvious in the field that obstructions or grade differences existing that might not have been considered in the engineering, or if discrepancies in construction details, legend, notes, or specifications are discovered. Bring all such obstructions or discrepancies to the attention of the owner's representative in writing prior to construction.
5. These drawings are diagrammatic, therefore, the following should be noted:
 - A. Avoid conflicts between the irrigation system, planting materials and architectural features. Install irrigation pipe and wiring in landscaped areas whenever possible.
 - B. Use only standard tees and elbow fittings, use of cross type fittings is not permitted.
 - C. Irrigation pipe and valves may be shown outside of the planting area, in the hardscape, or outside of property lines for graphic clarity only. Install all irrigation components within landscaped areas or through sleeving and within the property boundary.
6. Provide the following components to the owner's representative prior to the completion of the project.
 - A. Two operating keys for each type of manually operated valves.
 - B. Two of each servicing wrench or tool needed for complete access, adjustment, and repair of all sprinklers and emitters.
7. Select nozzles for spray and rotary sprinklers with arcs that provide complete and uniform coverage with minimum overspray for the site conditions. To minimize overspray, install pressure compensating nozzles or pressure compensating screens if uniform lateral pressure cannot be attained with pressure adjustment at the remote control valve. Carefully adjust the radius of the throw and arc of coverage of each spray and rotary sprinkler to provide the best performance.
8. The irrigation contractor is responsible for coordinating with the general contractor for the installation of irrigation sleeving. All sleeving will be schedule 40 PVC. All pipe and wire will be installed in separate sleeves at all paved surfaces, sidewalks, driveways, walls, footings, and hardscape areas. All sleeves may not be shown and/or sized in the plans. The general contractor is responsible for coordinating with the irrigation contractor for the installation of all required sleeving, proper sizing, and coordinating installation of sleeving with other trades. Any pipe or wire which passes beneath existing hardscape where sleeving was not installed, requires horizontal boring by the irrigation contractor. Sleeve and conduit sizes shall be a minimum of twice the aggregate diameter of all pipe and wire contained within sleeve or conduit pipe. Minimum sleeve size is 2-inch. Indicate all sleeve locations on "as-built" record drawings.
9. Coordinate and install all electrical power to the irrigation control system in accordance with the national electric code and all applicable local electric utility codes.
10. Gate valves shall be ported to provide for full flow. Labeled and nominal size of valve opening shall be the same.
11. All materials and workmanship shall be true to type, form, finish and of the highest standards of the trade. Damaged or inferior materials shall be removed from the site without delay.
12. Install pressure regulating module for all drip valve assemblies, set discharge pressure to 35 psi.
13. Install irrigation pipe and components a minimum of 8 feet from tree root balls. Pipe routings shown on drawings are diagrammatic.
14. Provide #12-1 AWG bare copper tracing wire along the entire mainline routing. Provide 24 inch coil of tracing wire in each valve box along mainline routing.
15. Contractor shall furnish and install material and equipment pertaining to the irrigation system herein specified or shown on the drawings. This shall include all items necessary to complete installation.
16. Irrigation contractor to cap all flush ends hand tight prior to backfill.
17. Irrigation contractor shall coordinate work with planting plans to avoid conflicting locations between piping and plant pits.
18. All materials shall be installed as detailed in the plans. If the contract drawings and/or specifications do not thoroughly describe the method or techniques to be used, then the contractor shall install as per manufacturers specifications. If a contradiction occurs, notify the landscape architect immediately.
19. Irrigation contractor to use Teflon tape on all threaded joints.
20. No pipes shall be installed parallel and directly over another line.
21. Brand each valve box with 1" lettering showing zone number and controller letter. This stamp is to match the zone and controller associates with the valve's operation.
22. Contractor shall perform the following:
 - A. Visit site and verify existing grades, construction and conditions.
 - B. Notify landscape architect of discrepancies between plan and field conditions.
 - C. Restore contractor damaged existing work to the satisfaction of the engineer or landscape architect without cost to the owner.
 - D. Be satisfied that the plan can be constructed, functional and complete.
23. All equipment shall be maintained while under construction. Maintenance includes: water scheduling, replacement of defective or damaged equipment, adjustment and re-adjustment of heads and other equipment.
24. Contractor to ensure the following:
 - A. Lines and valves are to be placed within planting beds and project limits. These plans are schematic, contractor shall size all pipe.
 - B. 100% coverage of irrigation system to all plants regardless of size or type and shall confirm all non-irrigated areas prior to submitting a bid.
25. Install two (2) spare #14-1 AWG control wires for each unused station and one spare #12-1 AWG common wire from the respective controller to this location for use as a spare wires in each remote control valve box along the entire wire routing for this controller. Seal wire ends water tight and contain within valve box at this location.
26. Should field adjustments be made to the site plan, irrigation contractor shall make all necessary adjustments to the irrigation system to ensure proper functionality. Landscape architect is to be notified of any and all changes made to the irrigation system, prior to installation of said changes.



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NO.	DESCRIPTION	DATE

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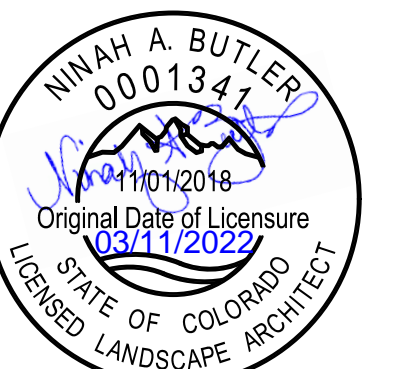
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PANDA PROJECT #: S8-22-D8137

PANDA STORE #: -

ARCH PROJECT #: 20044.016

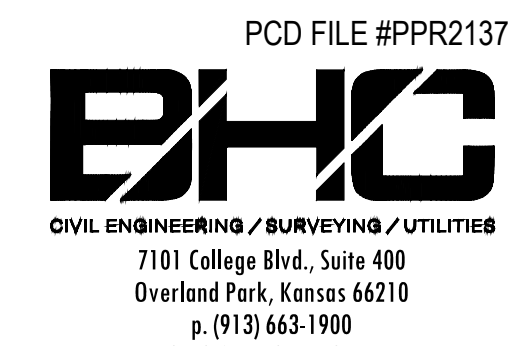


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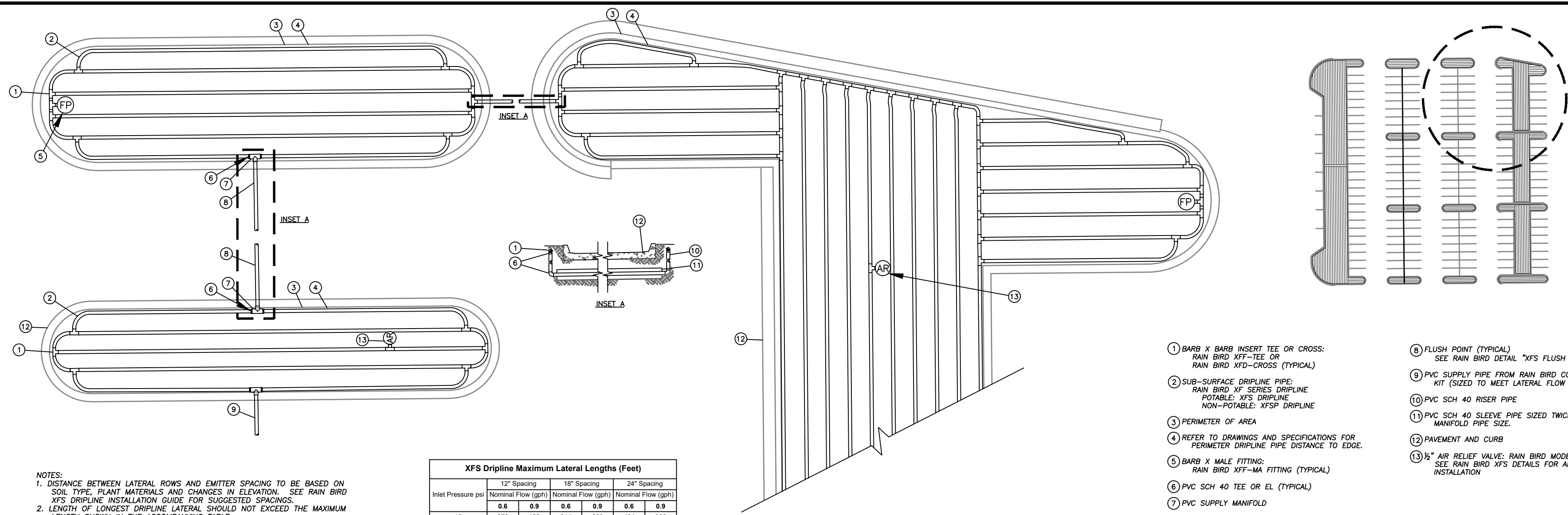
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IRRIGATION DETAILS

L3.0



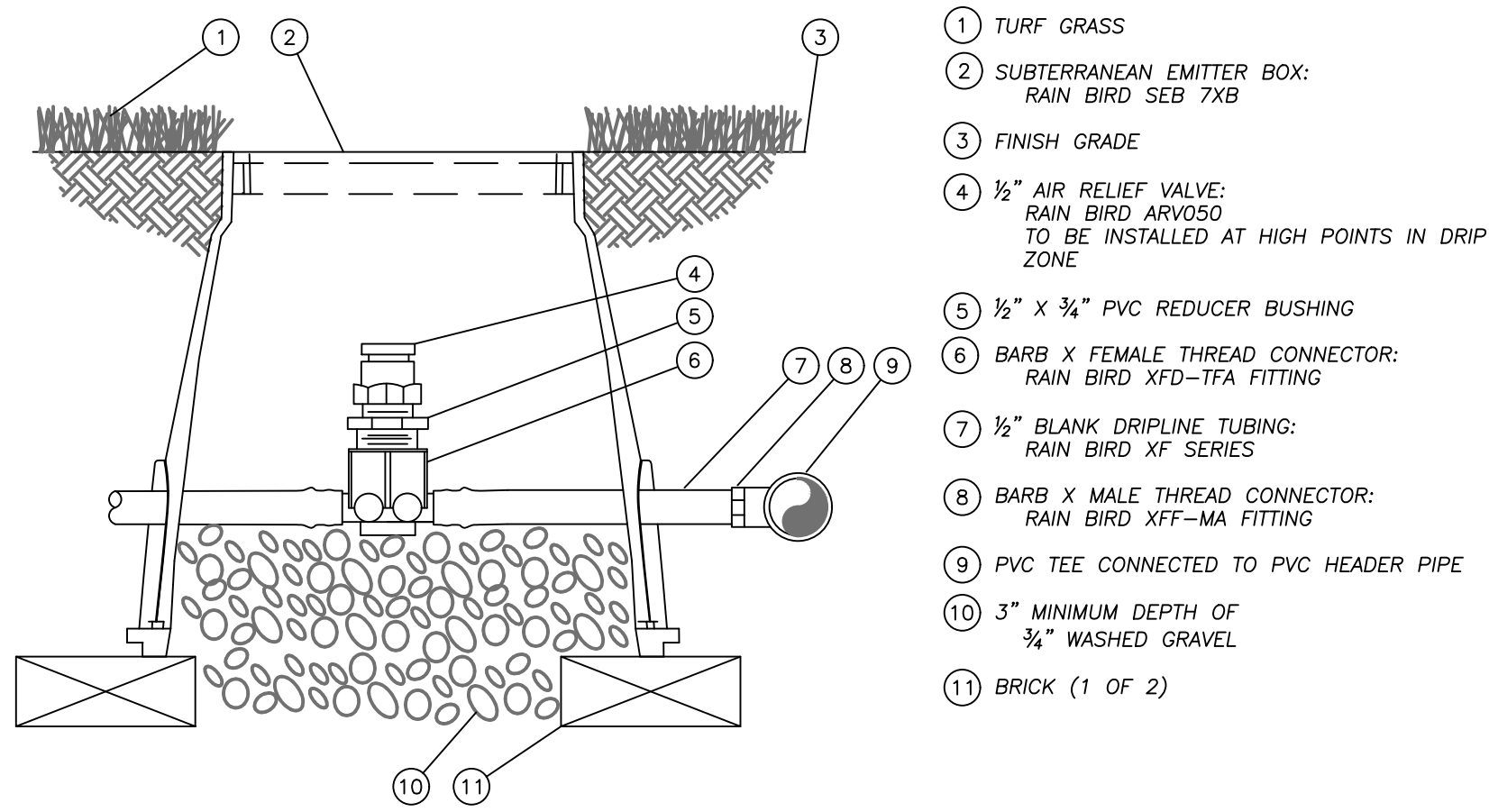
- NOTES:**
- DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE RAIN BIRD XFS DRIPLINE INSTALLATION GUIDE FOR SUGGESTED SPACINGS.
 - LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH SHOWN IN THE ACCOMPANYING TABLE.
 - AIR RELIEF VALVE TO BE INSTALLED AT ALL HIGH POINTS.
 - DISTANCE FROM CURB TO ADJACENT DRIPLINE TO BE SPECIFIED BY DESIGN CONSULTANT (SEE DRAWINGS AND SPECIFICATIONS).
 - WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 80PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

Inlet Pressure psi	12" Spacing		18" Spacing		24" Spacing	
	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)	Nominal Flow (gph)
15	273	192	314	250	424	322
20	318	169	353	264	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	720	488
60	460	290	586	455	780	514

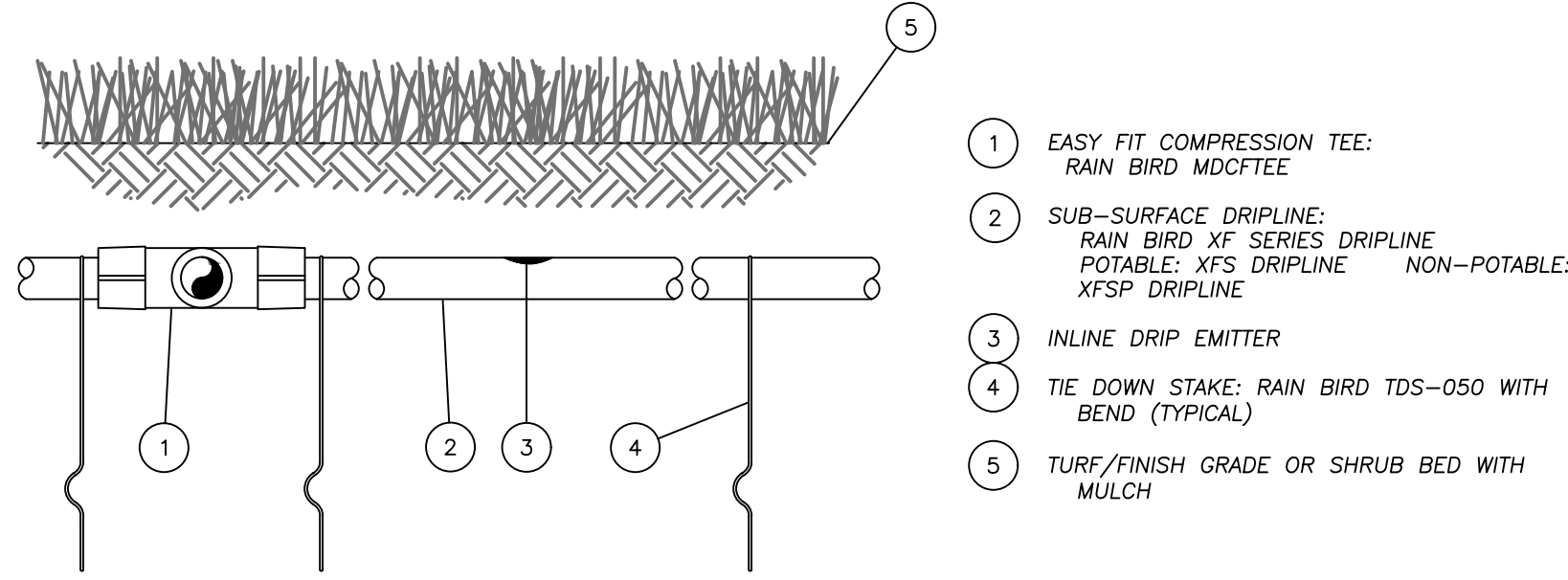
- BARB X BARB INSERT TEE OR CROSS: RAIN BIRD XFF-TEE OR RAIN BIRD XFD-CROSS (TYPICAL)
- SUB-SURFACE DRIPLINE PIPE: RAIN BIRD XF SERIES DRIPLINE. POTABLE: XFS DRIPLINE. NON-POTABLE: XFS DRIPLINE.
- PERIMETER OF AREA
- REFER TO DRAWINGS AND SPECIFICATIONS FOR PERIMETER DRIPLINE PIPE DISTANCE TO EDGE.
- BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
- PVC SCH 40 TEE OR EL (TYPICAL)
- PVC SUPPLY MANIFOLD
- FLUSH POINT (TYPICAL). SEE RAIN BIRD DETAIL "XFS FLUSH POINT"
- PVC SUPPLY PIPE FROM RAIN BIRD CONTROL ZONE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
- PVC SCH 40 RISER PIPE
- PVC SCH 40 SLEEVE PIPE SIZED TWICE SIZE OF MANIFOLD PIPE SIZE
- PAVEMENT AND CURB
- 1/2" AIR RELIEF VALVE: RAIN BIRD MODEL: ARV050. SEE RAIN BIRD XFS DETAILS FOR AIR RELIEF INSTALLATION

907 TYPICAL ISLAND DRIPLINE LAYOUT DETAIL

Not to Scale



- TURF GRASS
- SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- FINISH GRADE
- 1/2" AIR RELIEF VALVE: RAIN BIRD ARV050 TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
- 1/2" x 1/4" PVC REDUCER BUSHING
- BARB X FEMALE THREAD CONNECTOR: RAIN BIRD XFD-TFA FITTING
- 1/2" BLANK DRIPLINE TUBING: RAIN BIRD XF SERIES
- BARB X MALE THREAD CONNECTOR: RAIN BIRD XFF-MA FITTING
- PVC TEE CONNECTED TO PVC HEADER PIPE
- 3" MINIMUM DEPTH OF 1/4" WASHED GRAVEL
- BRICK (1 OF 2)

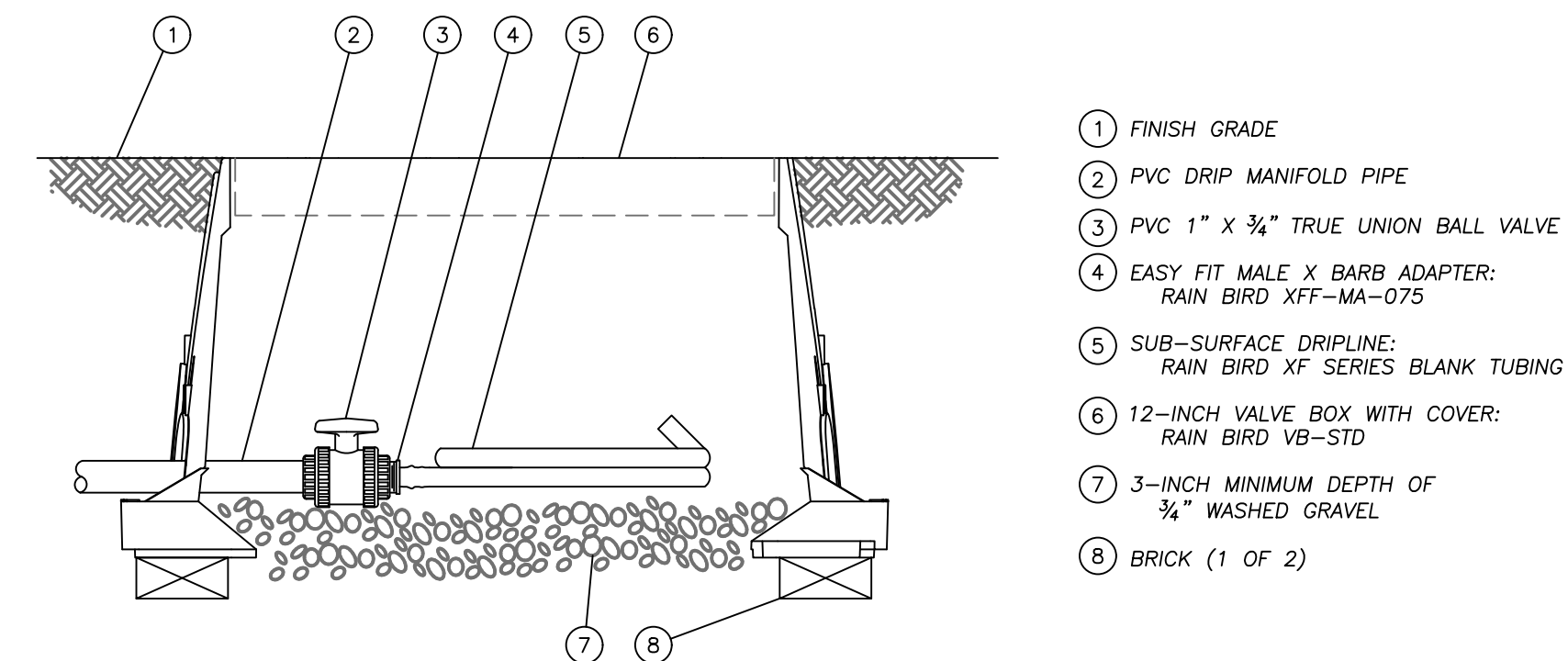


- EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTTE
- SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE. POTABLE: XFS DRIPLINE. NON-POTABLE: XFS DRIPLINE
- INLINE DRIP EMITTER
- TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
- TURF/FINISH GRADE OR SHRUB BED WITH MULCH

- NOTES:**
- PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
 - AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
 - INSERTION FLOW AND TRENCHED INSTALLATIONS DO NOT REQUIRE THE DOWN STAKES.

908 DRIPLINE AIR RELIEF VALVE DETAIL

Not to Scale



- FINISH GRADE
- PVC DRIP MANIFOLD PIPE
- PVC 1" x 1/2" TRUE UNION BALL VALVE
- EASY FIT MALE X BARB ADAPTER: RAIN BIRD XFF-MA-075
- SUB-SURFACE DRIPLINE: RAIN BIRD XF SERIES BLANK TUBING
- 12-INCH VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 3-INCH MINIMUM DEPTH OF 1/4" WASHED GRAVEL
- BRICK (1 OF 2)

910 DRIPLINE FLUSH POINT W/BALL VALVE DETAIL

Not to Scale

909 XFS SUB-SURFACE DRIPLINE BURIAL DETAIL

Not to Scale



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