


PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	SIZE	QTY
	Fouquieria splendens Ocotillo	15 gal	10
	Oleaya tesota Desert Ironwood	15 gal	40
	Parkinsonia x 'Desert Museum' Desert Museum Palo Verde	15 gal	35
	Vitex agnus-castus Chaste Tree	24"box	4
	Washingtonia filifera California Fan Palm	24" Box	3
	x Chitalpa tashkentensis 'Pink Dawn' Pink Dawn Chitalpa	36"box	18
SHRUBS	BOTANICAL / COMMON NAME	SIZE	QTY
	Agave parryi Parry's Agave	5 gal	16
	Caesalpinia pulcherrima Red Bird Of Paradise	5 gal	132
	Calliandra eriophylla Fairy Duster	5 gal	14
	Chrysactinia mexicana Damianita	1 gal	14
	Dasyliiron longissimum Toothless Desert Spoon	5 gal	22
	Encelia farinosa Brittle Bush	5 gal	6
	Ferocactus wislizenii Fish Hook Barrel Cactus	5 gal	38
	Hesperaloe funifera New Mexico False Yucca	5 gal	37
	Lantana montevidensis 'New Gold' Trailing Lantana	1 gal	28
	Leucophyllum frutescens 'Compacta' Compact Texas Ranger	5 gal	144
	Muhlenbergia capillaris 'Regal Mist' TM Regal Mist Deer Grass	5 gal	56
	Opuntia microdasys Bunny Ears Prickly Pear	5 gal	20
	Rosmarinus officinalis 'Prostratus' Dwarf Rosemary	1 gal	15
	Ruellia penninsularis Wild Petunia	5 gal	91

REFERENCE NOTES SCHEDULE

SYMBOL	ROCK DESCRIPTION
	K-101 1/2" screened decomposed granite. Express Carmel color at 2" Depth.

NOTE:

THE CRITERIA USED FOR THE SIGHT VISIBILITY TRIANGLE IS FOR 50 MPH FOR A 2 LANE UNDIVIDED ROAD REQUIRING A DISTANCE OF 55'.

LANDSCAPE GENERAL NOTES

- Landscape contractor shall confirm location of all underground utilities prior to any excavation and shall be responsible for the following:
 - Damages to such utilities caused as a result of the contractor's activities.
 - Damages to existing walks, walls, drives, curbs, etc.
 - Inspecting the site in order to be fully aware of existing conditions prior to submitting a bid.
- Installation of all landscape and irrigation materials shall comply with sections 424, 425, 757, and 795 of the MAG standard specifications as amended by the City of Mesa in the current edition of the Mesa Engineering Procedures Manual, Landscape & Irrigation Standards.
- Contractor shall repair any damage made to the existing sprinkler system to the satisfaction of the city at no additional cost to the city.
- Landscape removal is a non-pay item unless otherwise noted.
- All existing vegetation, weeds, debris, etc. Shall be removed from project area and disposed of properly off the site at the contractor's expense (scarify existing subgrade, minimum six (6) inches depth).
- Damage to turf shall be repaired by contractor, i.e., ruts filled with clean soil, compacted to match surrounding grades, excess soil, rock, etc. shall be removed to leave the site clean.
- All plant material, other than trees, shall conform to grading, type, etc. as set forth in the American Standard for Nursery Stock by the American Association of Nurserymen. All trees shall conform to the current Arizona Nursery Association Tree Specifications and MAG spec 795.7. Should any conflicts in the specifications occur, the Arizona Nursery Association's specifications shall prevail.
- City reserves the right to inspect shrubs and containered trees for condition of root balls. For any such inspections which may destroy rootball, contractor shall supply additional plant at no cost to city.
- Plant pits shall be inspected by city prior to planting by the contractor by requesting an inspection 48 hours in advance.
- Rough and fine grading to establish uniform smooth grade is included in this project.
- Soil test for fertility and additive recommendations (for turf and ornamentals) shall be completed by contractor to determine if additives are required. Contractor shall provide copy of soil test results for review and approval to engineering inspector at least seven (7) days prior to anticipated planting. After approval by the city, the contractor shall provide and incorporate any additives required prior to or at time of planting.
- Plant pit soil mixture shall consist of four and one-half parts natural fertile, friable soil and one part humus by volume, thoroughly mixed prior to backfilling in pits. Backfilling shall be in 6" lifts with each lift water settled without puddling.
- Contractor shall stake tree and shrub locations for 5-gallon plants and larger. Stakes shall be marked with plant name or plant legend item number from plans.
- All existing (gas, electric, water, etc.) covers and boxes shall remain uncovered. Contractor to adjust to final grade as necessary. Npi unless otherwise noted.
- The contractor shall install water meter provided by the City of Mesa. The contractor shall provide all materials including all appurtenances and labor necessary to install the complete automatic sprinkler system from the meter (water usage charges shall be paid by contractor until project final acceptance by City of Mesa). Contractor shall order meter from development services.
- The contractor shall be responsible for locating the underground sprinkler systems in advance of construction. The sprinkler system locations noted on plans are for reference only.
- Contractor to verify depth of all inlet structures and sprinkler systems prior to trenching for low-flow channel.
- Contractor to provide pumping within five (5) days after the notice to proceed is given as required to dry the area sufficiently to begin construction.
- Contractor shall arrange for sprinkler system shutdown during construction by contacting the engineering inspector.
- No rocks larger than 1" in diameter shall be allowed in the top six (6) inches of topsoil where turf establishment is specified. Rock removal as necessary is included in this project (npi).
- Where caliche is encountered in plant pits, depth and width of pit shall be increased by one-third (1/3) over specification, and a liquid penetrator, "al-kaliche" or equal, shall be incorporated for each pit per manufacturer's recommendations.
- Project record drawings for irrigation system:
 - Maintain on site and separate from documents used for construction, one complete set of contract documents as project record documents. Keep documents current. Do not permanently cover work until as-built information is recorded.
 - Record pipe and wiring network alterations. Record work which is installed differently than shown on the construction drawings. Record accurate reference dimensions, measured from at least two permanent reference points, of each irrigation system valve, each backflow prevention device, each controller or controller unit, each sleeve end, each stub-out for future pipe or wiring connections, and other irrigation components enclosed within a valve box.
- For parks and retention basins: Contractor shall install decomposed granite to a rolled depth of two (2) inches. Decomposed granite shall be 1/2" minus with the color as specified on the plans. Pre-emergent herbicide shall be applied before and after placement of decomposed granite per the manufacturer's recommendations. Pre-emergent herbicide shall be surfan, dacthal, or approved equal. Not more than 8% of decomposed granite shall pass through a #200 mesh screen, 15% through a #40 mesh screen, 98% through a #4 mesh screen, and 100% shall pass through a 1/2" mesh screen. Sample to be provided for city review and approval.
- For street landscape projects: Contractor shall install decomposed granite as follows:
 - Decomposed granite ground cover shall be 1/2" size screened and washed.
 - Place and roll to two (2) inch total depth over 85% compacted subgrade.
 - Pre-emergent herbicide surfan, dacthal, or approved equal shall be applied before and after granite placement.
 - DECOMPOSED GRANITE SAMPLE SHALL BE PROVIDED IN A RIGID PLASTIC CONTAINER FOR CITY REVIEW AND APPROVAL.
- RESTORE ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS, COMPONENTS AND LANDSCAPE AREAS IMPACTED BY ANY WORK UNDER THIS CONTRACT. RESTORE ALL EXISTING IRRIGATION AND LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE RESTORATION NOTES INDICATED WITHIN THESE DOCUMENTS. AT A MINIMUM, ALL RESTORATION SHALL BE IN ACCORDANCE WITH M.A.G. SPECIFICATION 107.9 - PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY OF MESA ENGINEER.
- ALL RESTORATION WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAILS PROVIDED.
- REFER TO LANDSCAPE PLANTING SHEETS AND ENGINEERING DRAWINGS FOR ADDITIONAL RESTORATION NOTES AND REQUIRED COORDINATION.

LANDSCAPE CALCULATIONS		
Total Open Space Area	13,486 Square Feet	
Plant Material Coverage	10,290 Square Feet (76%)	
Total Parking lot trees	8	
Foundation base length	575'	
	REQUIRED	PROVIDED
Street Frontage Trees	18	18
36" Street Frontage Trees	5	5
Ocotillo substitution	N/A	N/A
24" Street Frontage Trees	13	13
Street Frontage Shrubs	78	78
5 Gal. Street Frontage Shrubs	54	54
36" box parking lot trees	1	1
Perimeter trees	24	24
Perimeter shrubs	92	92
Foundation base trees required	11	11
36" box foundation base trees	2	2
Foundation base LF required	191 (33%)	542 (94%)

BFH Group
3707 EAST SOUTHERN AVENUE
MESA, ARIZONA, 85206
PHONE: 480.734.1446

REVISIONS:

PROJECT:
BORUM INDUSTRIAL
3813 N. HIGLEY ROAD, MESA, ARIZONA 85215

Job No:	23010
Drawn By:	TCE
Checked:	TCE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or visit arizona811.com

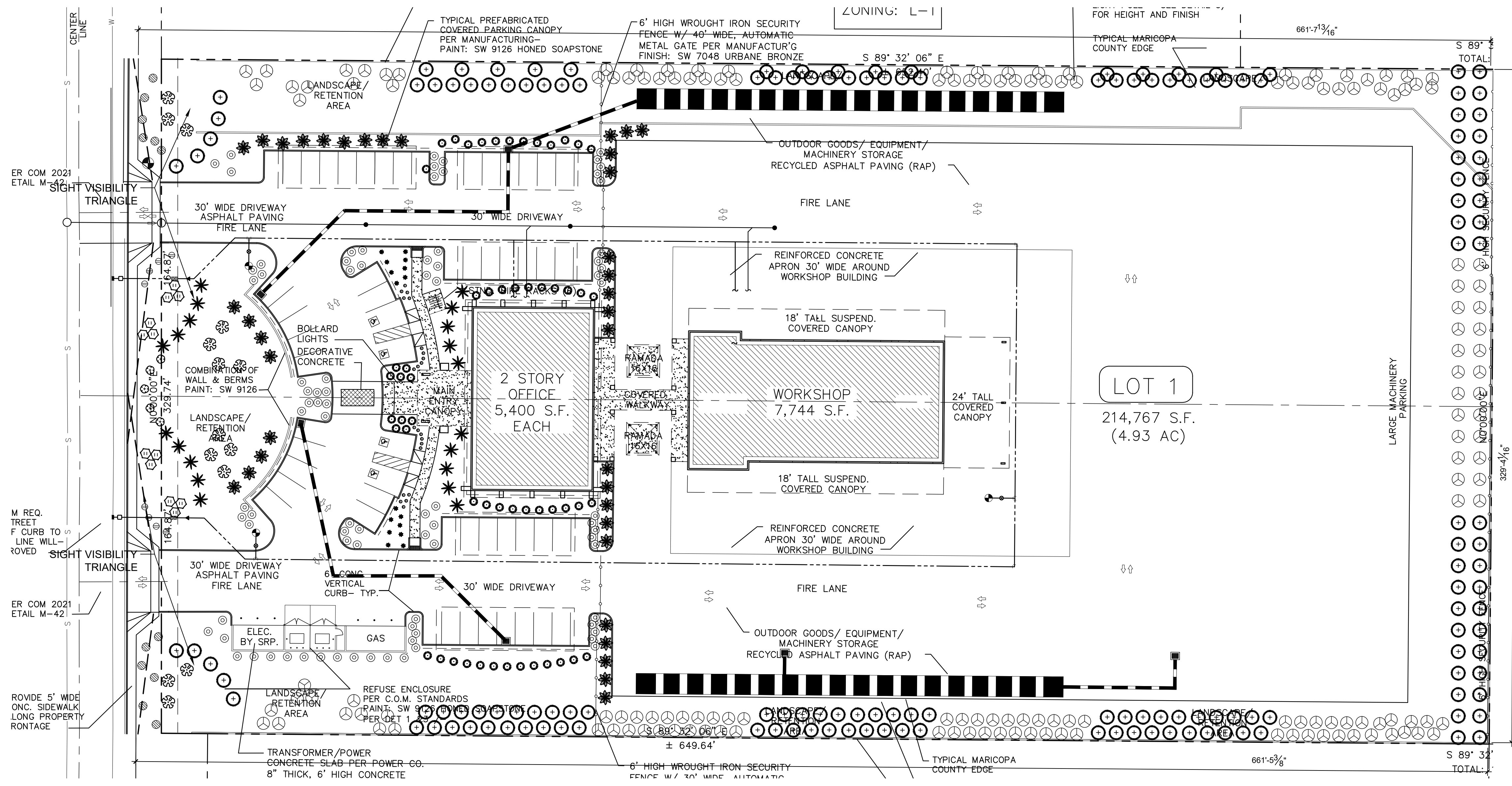
SEAL OF THE CITY OF MESA, ARIZONA
PLANNING DEPARTMENT
EXP. 06/30/2025

JOB NO.
23010

COVER SHEET

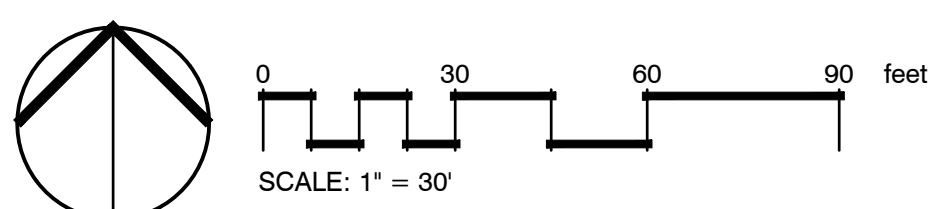
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1 OF 4



PLANT SCHEDULE

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36" box parking lot trees	1	1
Perimeter trees	63	63
Perimeter shrubs	338	338
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36" box foundation base trees	2	2
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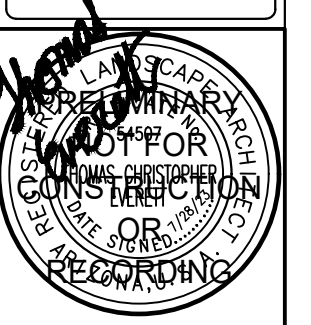
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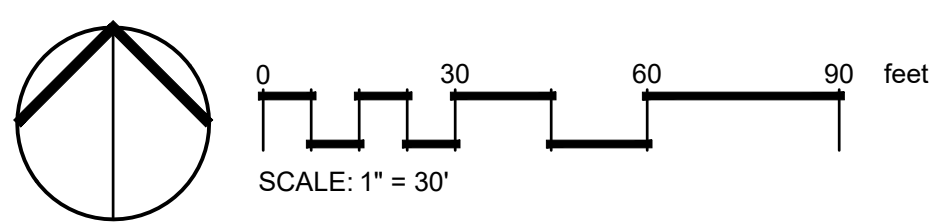
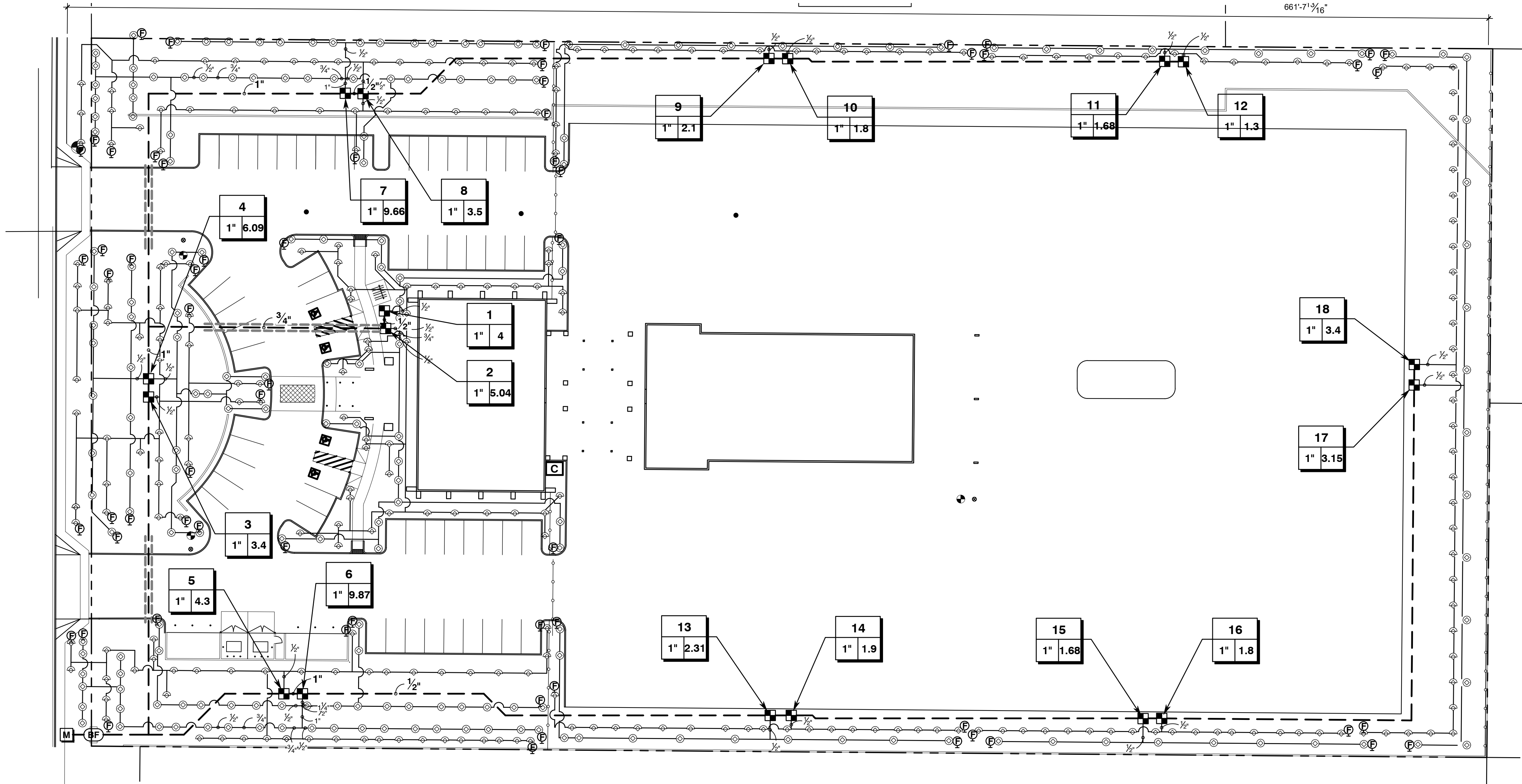
BORUM INDUSTRIAL
3813 N. HIGLEY ROAD, MESA, ARIZONA 85215

PROJECT:

Job No.	23010
Drawn By	TCR
Checked	TCR

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
■	Rain Bird X CZ-LF-100-PRF 1" Low Flow Drip Control Kit, 1" Low Flow Valve, 3/4" Pressure Regulating RBY Filter, and 30psi Pressure Regulator. 0.2gpm-5gpm. Placed in Purple Valve Box
⊕	Rain Bird MDCFPAP Dripline Flush Valve purple cap in compression fitting coupler. For non-potable water use. Placed in purple valve box
⊕ 0.5 1.0 2.0	Rain Bird XBT-6 05 For shrubs. Six-Outlet, Pressure Compensating, Drip Emitter. Flow rates of 0.5gph=blue, 1.0gph=black, and 2.0gph=red, at each emitter outlet. Comes with 1/2" FPT Inlet x Barb Outlet.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
⊕	Febco 825Y 1" Reduced Pressure Backflow Preventer
C	Hunter HCC-800-M 8 Station Outdoor Wi-Fi enabled, full-functioning controller with touchscreen, Commercial Use. Metal Cabinet.
M	Water Meter 1"
—	Irrigation Lateral Line: PVC Schedule 40 1/2"
—	Irrigation Lateral Line: PVC Schedule 40 3/4"
—	Irrigation Lateral Line: PVC Schedule 40 1"
—	Irrigation Lateral Line: PVC Schedule 40 1 1/4"
---	Irrigation Mainline: PVC Schedule 40 1/2"
---	Irrigation Mainline: PVC Schedule 40 3/4"
---	Irrigation Mainline: PVC Schedule 40 1"
----	Pipe Sleeve: PVC Schedule 40

Valve Callout	
#	Valve Number
#/	Valve Flow
#"	Valve Size

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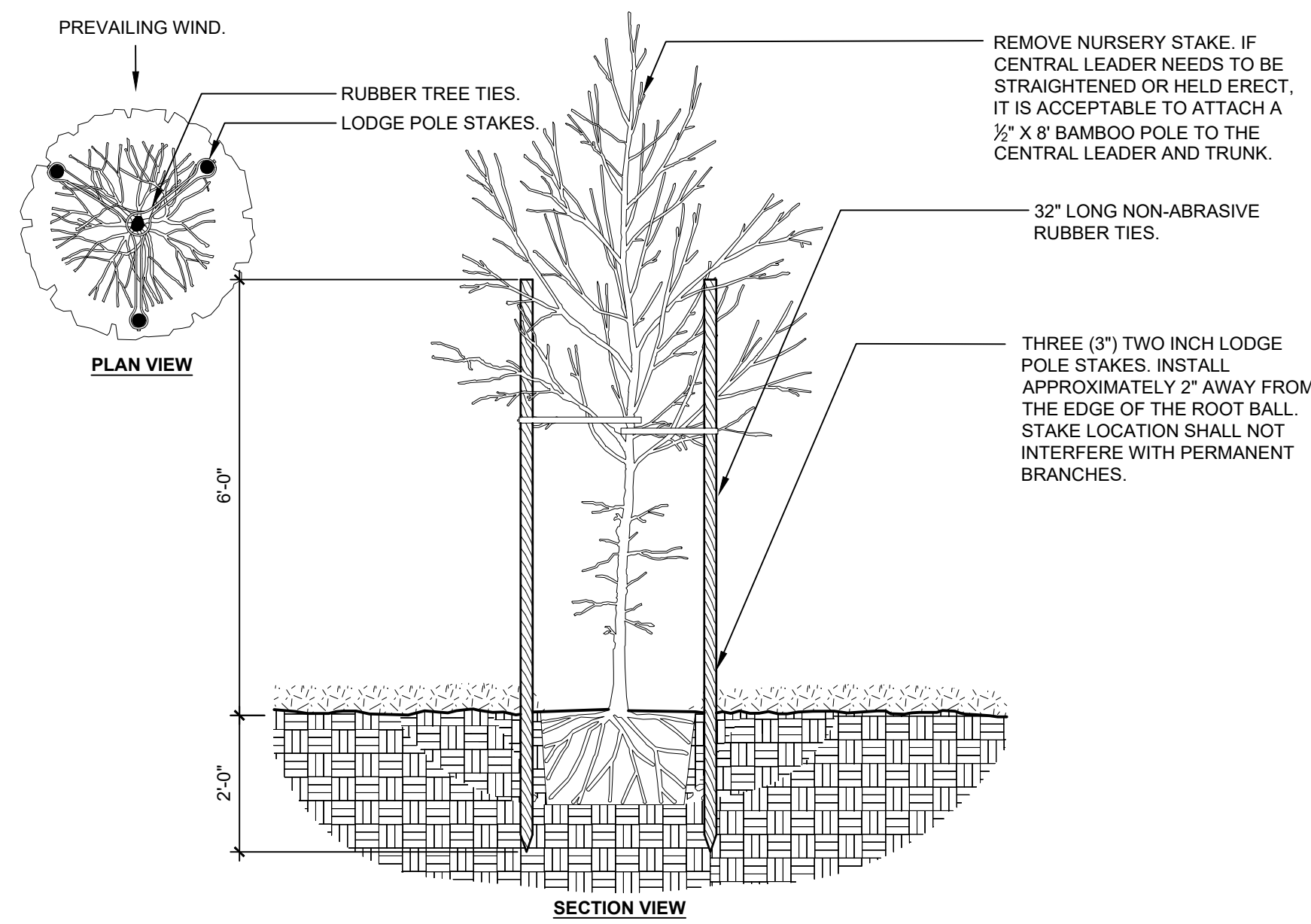
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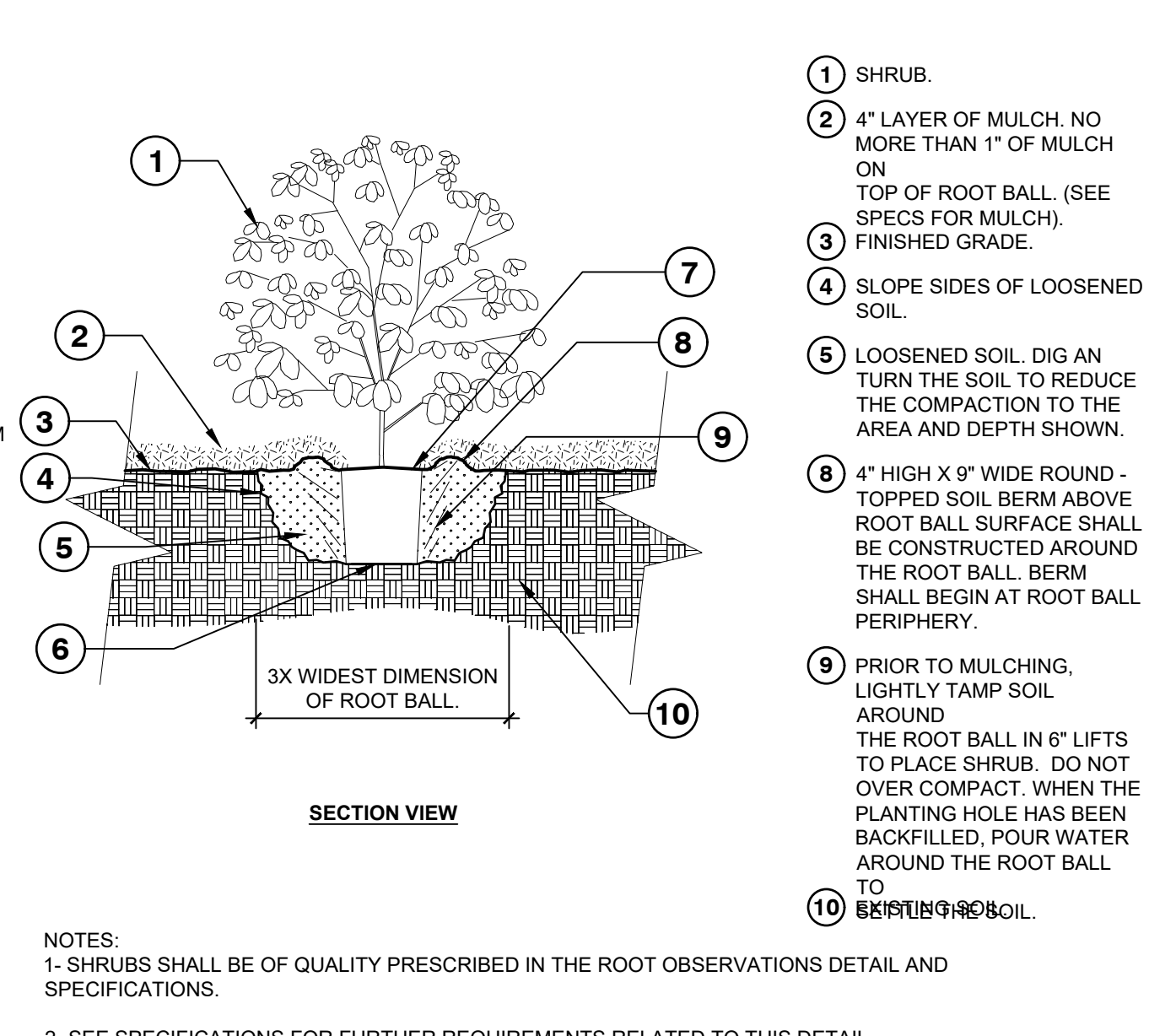


EXP. 06/30/2025

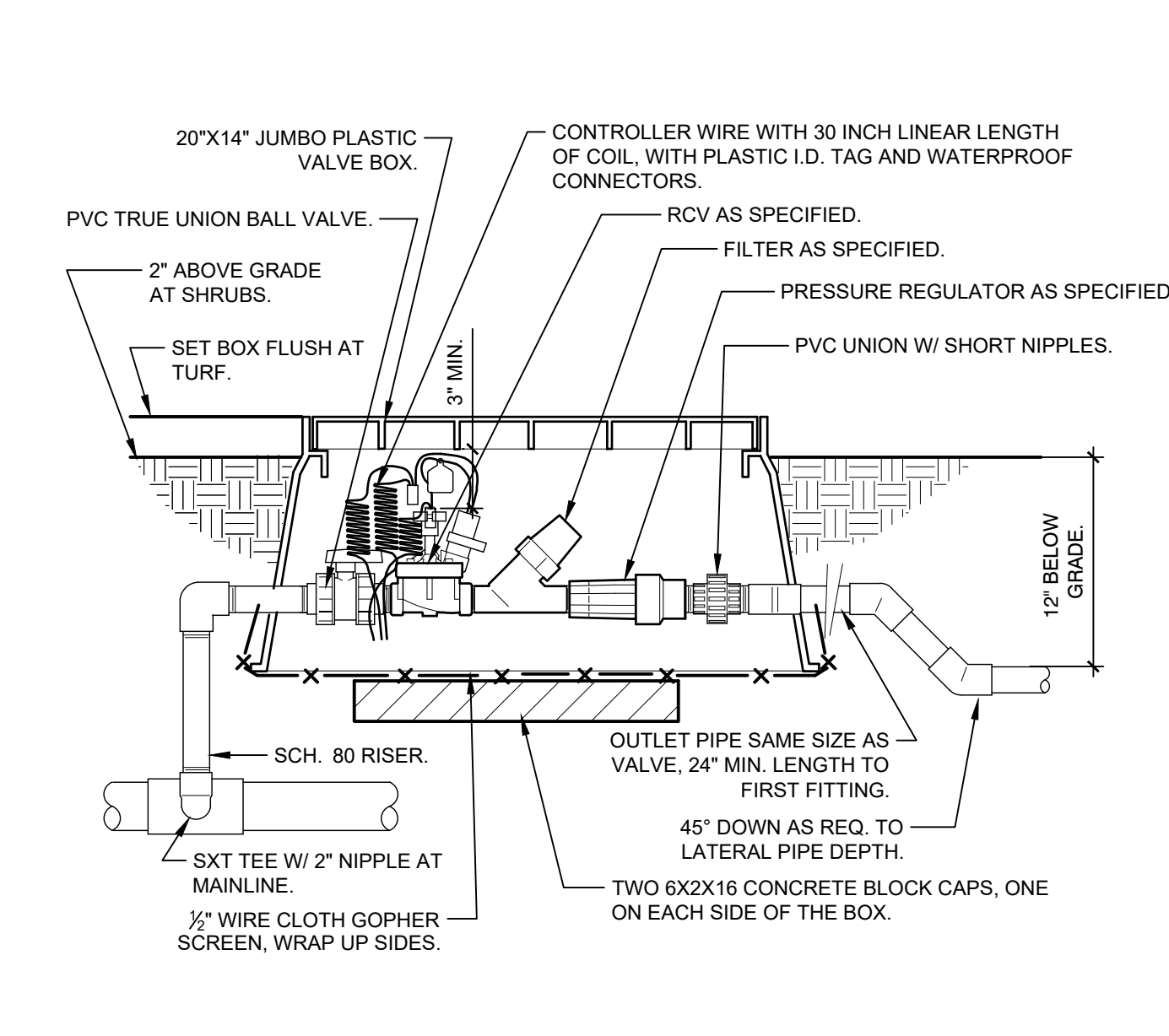
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23010
 IRRIGATION
PLAN
 SHEET NO.
L4
 2 OF 4



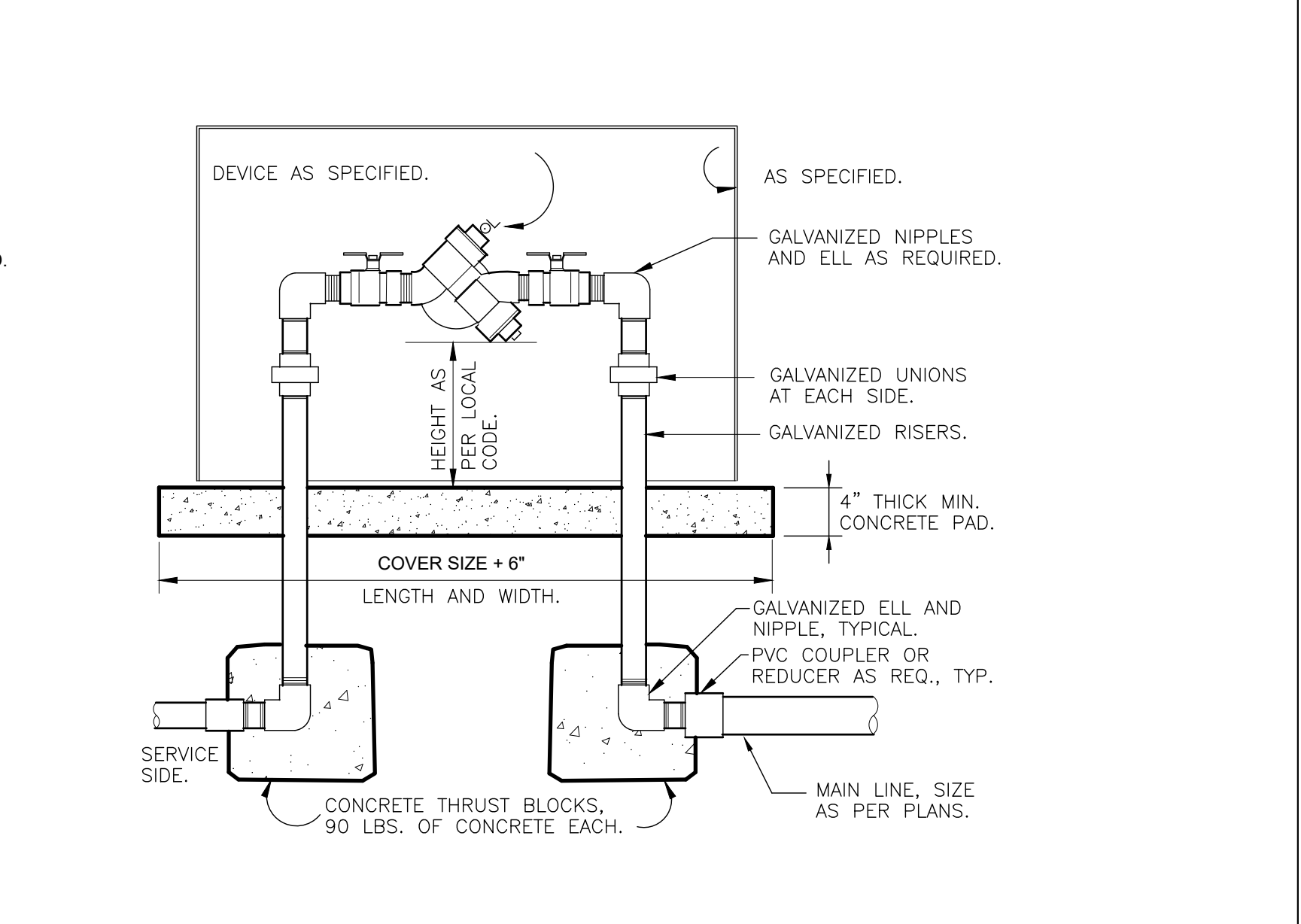
1 TREE STAKING - LODGE POLES (3)
 1/2" = 1'-0"
 FX-PL-FX-TREE-22



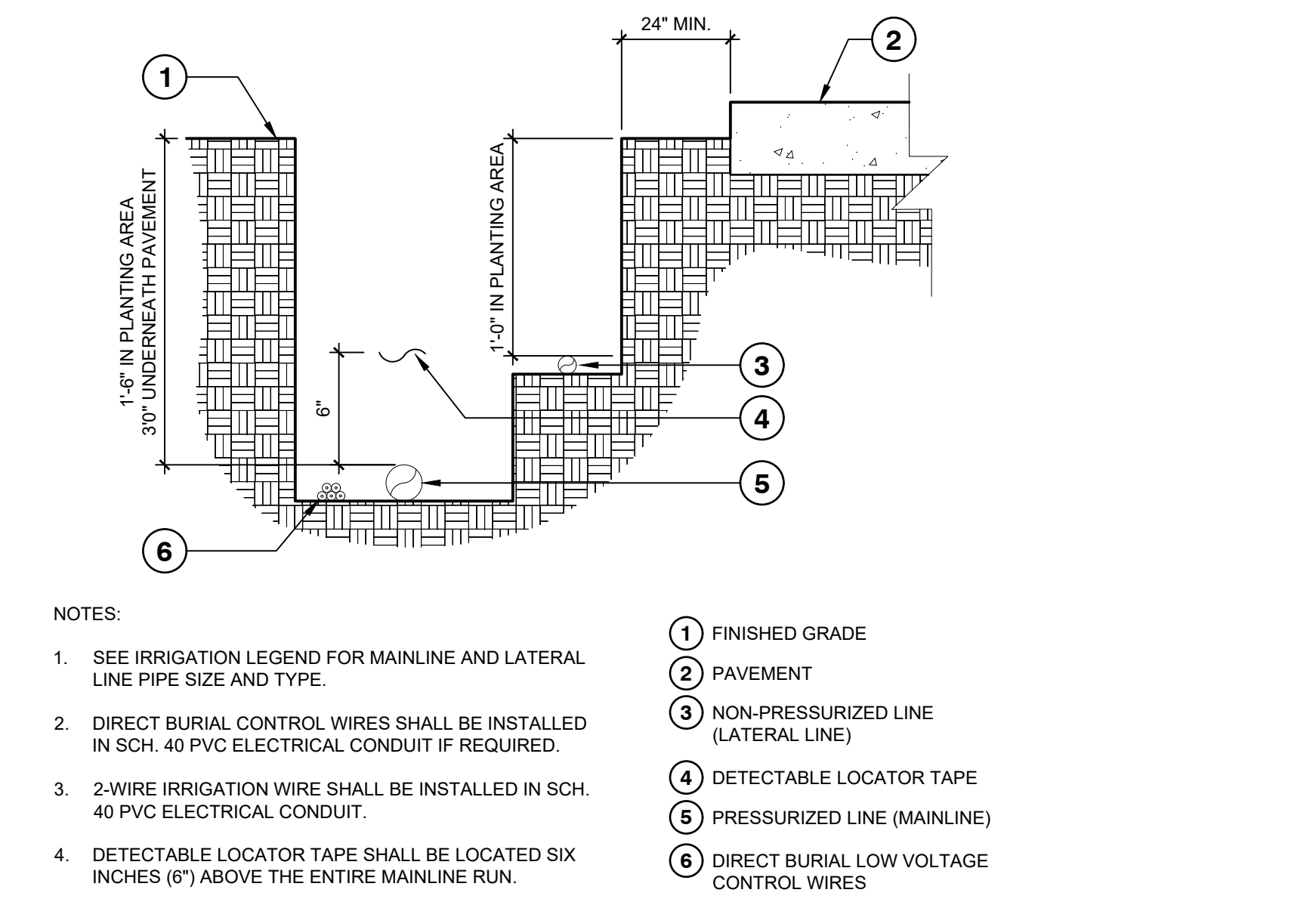
2 SHRUB - UNMODIFIED SOIL
 1/2" = 1'-0"
 FX-PL-FX-SHRB-04



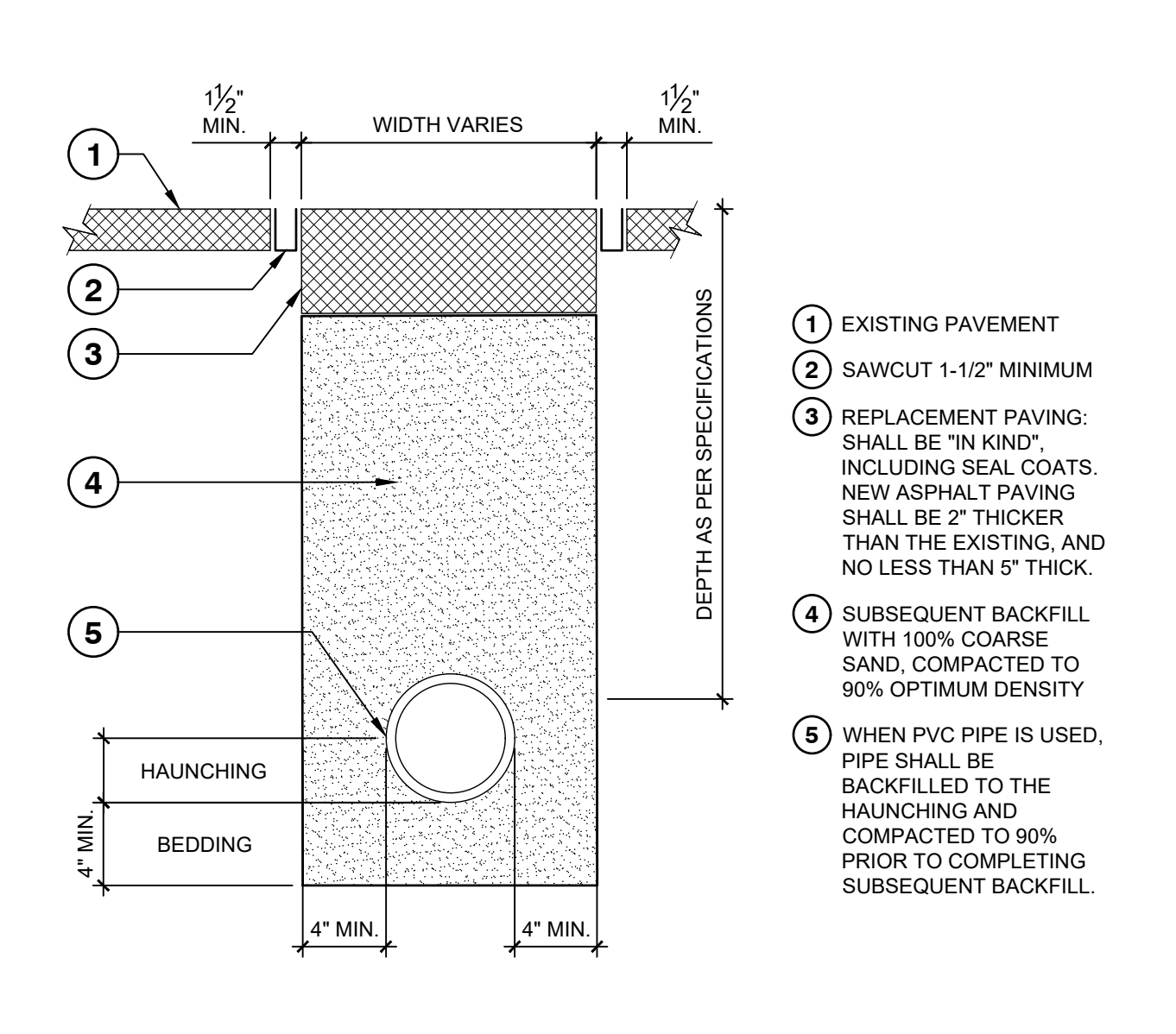
3 1" DRIP VALVE/FILTER/REGULATOR
 1 1/2" = 1'-0"
 FX-IR-FX-DRIP-12



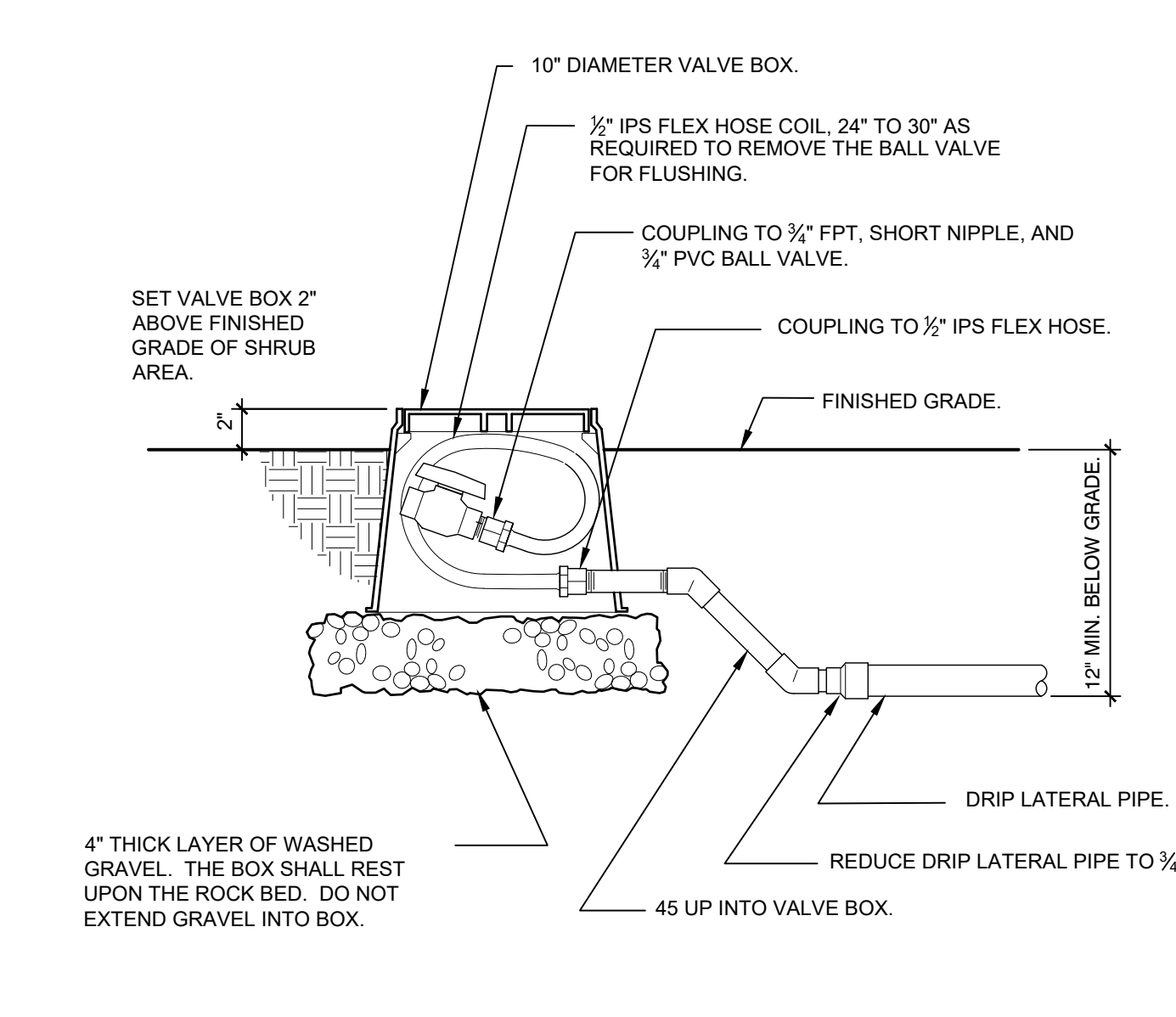
4 RP BACKFLOW W/ENCLOSURE PER CITY OF MESA DETAIL M-31.03
 1" = 1'-0"
 FX-IR-FX-BACK-06



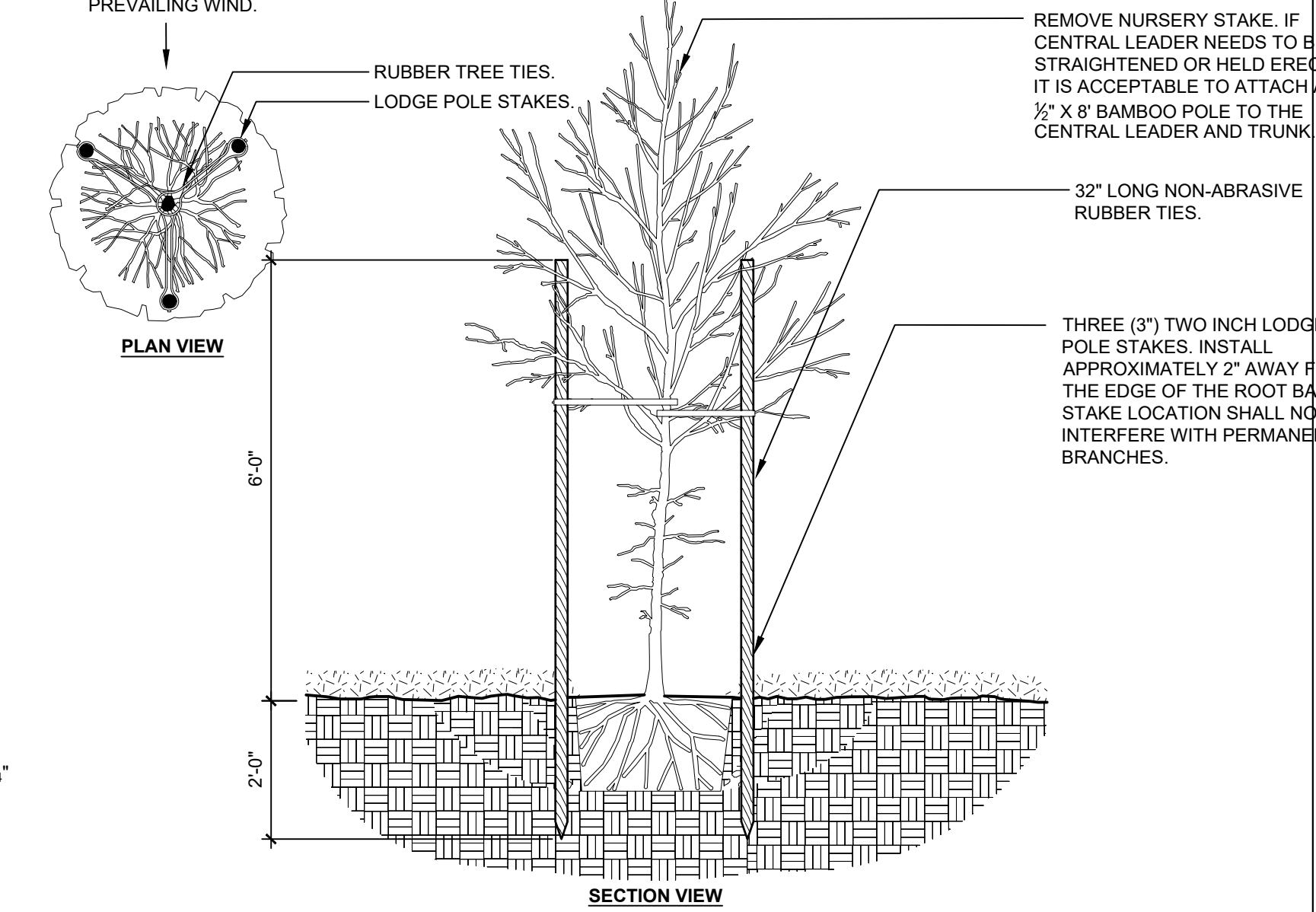
5 IRRIGATION TRENCHING
 1 1/2" = 1'-0"
 FX-IR-FX-AUXEQ-08



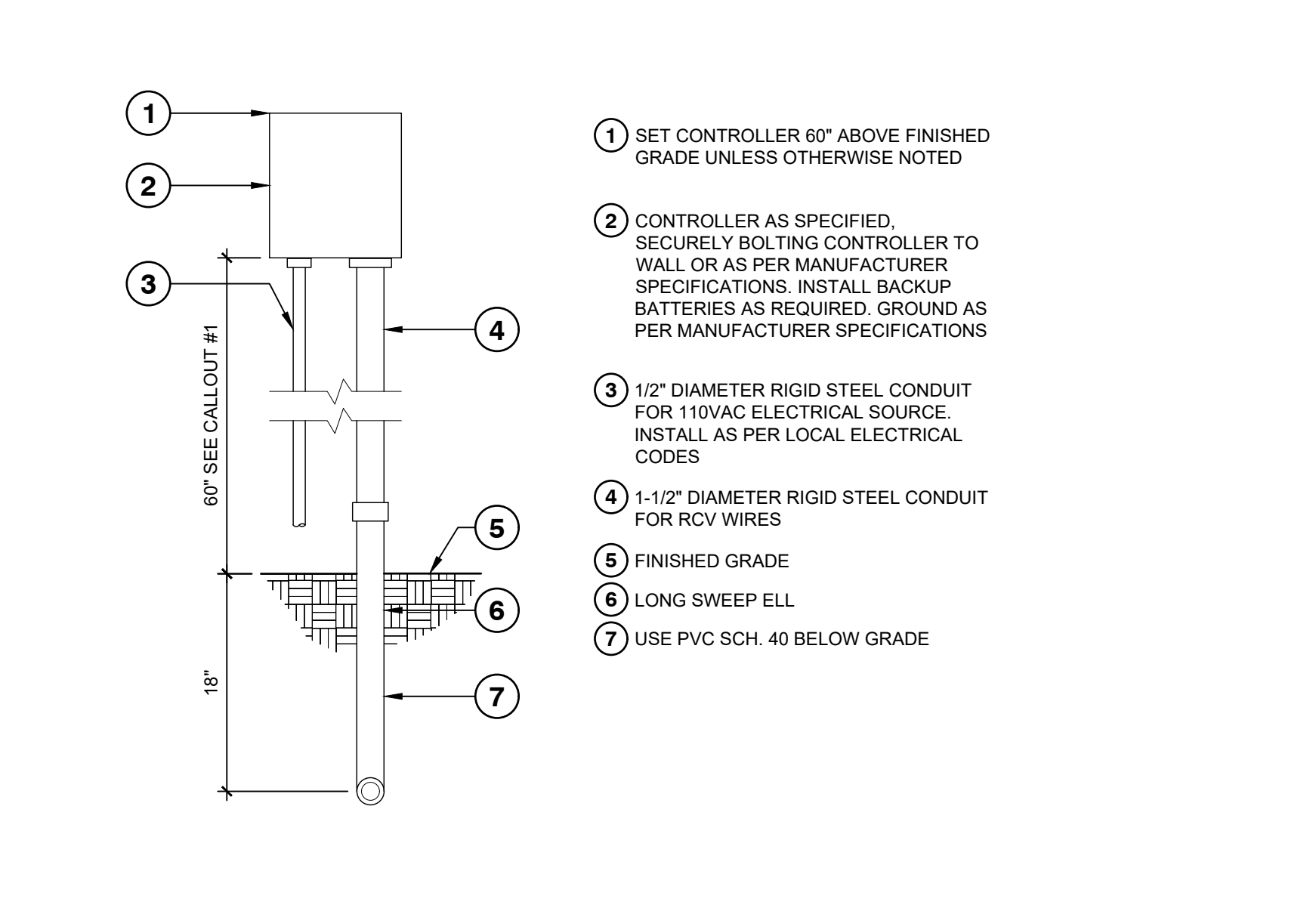
6 TRENCH DETAIL AT ASPHALT PAVING
 1 1/2" = 1'-0"
 FX-IR-FX-AUXEQ-12



7 HARD PIPE TO FLUSH VALVE
 1 1/2" = 1'-0"
 FX-IR-FX-DRIP-05



8 TREE STAKING - LODGE POLES (3)
 1/2" = 1'-0"
 FX-PL-FX-TREE-22



9 WALL MOUNT CONTROLLER
 1" = 1'-0"
 FX-IR-FX-CONT-06

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