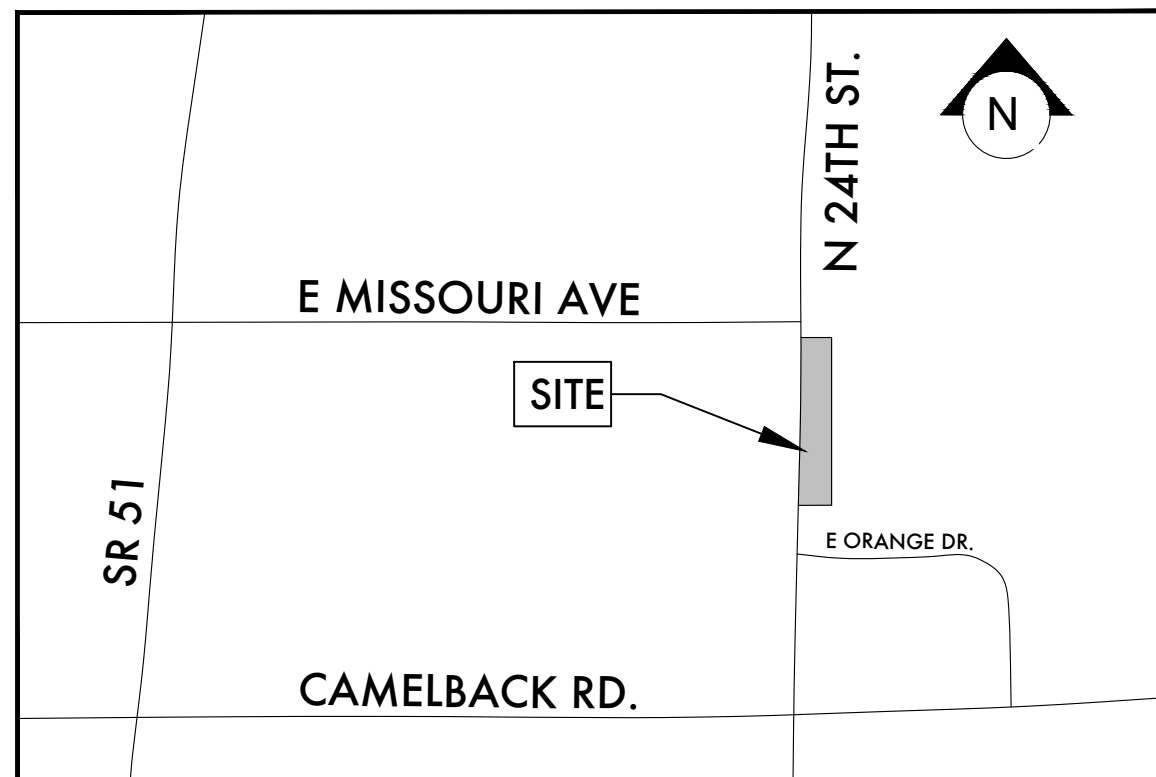


BILTMORE GARDENS 24TH ST

LOCATION MAP



VICINITY MAP



SHEET INDEX

| SHEET # | DESCRIPTION |
|---------|-------------------------------------|
| LA-100 | LANDSCAPE COVER SHEET |
| LA-101 | SITE PLAN/INVENTORY + SALVAGE COMBO |
| LA-102 | IRRIGATION PLAN + DETAILS |
| LA-201 | LANDSCAPE + IRRIGATION DETAILS |

INVENTORY/SALVAGE PLAN APPROVAL

| INVENTORY/SALVAGE PLAN APPROVAL, CITY OF PHOENIX | | | DATE |
|--|----------------------|----------------------|---|
| TOTALS & PERCENTAGES | TOTALS & PERCENTAGES | TOTALS & PERCENTAGES | 0.3400 |
| REMAIN / PROTECT IN PLACE | 6 | 0 | ACRES OF AREA BEING EVALUATED FOR USABLE MATERIAL |
| SALVAGE | 0 | 0 | |
| DESTROY | 1 | 0 | |
| | | | 7 |
| | | | TOTAL NUMBER OF PLANTS INVENTORIED ON SITE |

APPROVAL SIGNATURE BLOCK

| LANDSCAPE ARCHITECT / CITY OF PHOENIX | DATE |
|---|--|
| ESTIMATED RIGHT-OF-WAY COST: 313,383.17 | TOTAL ACRES OF LANDSCAPED AREA: 13.675 |
| MAINTENANCE BY: <input type="checkbox"/> CITY <input checked="" type="checkbox"/> OWNER | PRELIMINARY SITE PLAN APPROVAL: 0.31 |
| SQUARE FOOTAGE TURF: 0 | ESTIMATED S.F. RIGHT-OF-WAY: |

OWNER:

COLONY BILTMORE GREENS HOMEOWNERS ASSN.
5725 N SCOTSDALE RD STE C100 SCOTSDALE AZ, 85250
MICHAEL KESSELMAN
CHRIS.PERRY@MACERICH.COM
240.855.4094

PROJECT NARRATIVE:

NEW 6" CMU BLOCK WALL INSTALLATION ALONG THE OUTSIDE OF WEST SIDE OF PROPERTY. REMOVING DECLINING OLEANDER. ADDING NEW FICUS HEDGE ALONG WALL & CHINESE PISTACHE TREES.

LANDSCAPE ARCHITECT:

THE DESIGN LABORATORY
1050 E SOUTHERN AVE, UNIT 8
TEMPE, AZ 85282
JUSTIN AZEVEDO
JUSTIN@THEDESIGNLABAZ.COM
530.961.3834

ZONING:

PAD-8
ZONING CASE NUMBERS AND STIPULATIONS: N/A

CITY OF PHOENIX GENERAL LANDSCAPE NOTES

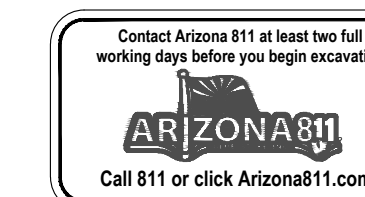
- The City of Phoenix General Notes are the only notes approved on this plan. Additional general notes generated by the sealant and placed on the plans are not approved as part of this plan and are noted as such on the plans.
- The design on these plans is only approved by the City in scope and not in detail. Construction quantities on these plans are not verified by the City. Approval of these plans are for permit purposes only and shall not prevent the City from requiring correction of errors in the plans where such errors are subsequently found to be in violation of any law, ordinance, health, safety, or other design issues.
- Construction within the right-of-way shall conform to the latest applicable Maricopa Association of Governments (MAG) Uniform Standard Specifications and Details and the latest City of Phoenix Supplement to the MAG Uniform Standard Specifications and Details.
- Final building permit cannot be obtained until bonding or approved assurances are provided for the landscaping within the right-of-way.
- No plant substitutions, type, size, or quantity, or deviations from the approved landscape or irrigation plans, are allowed without prior approval from the City of Phoenix Landscape Section at 602-262-7811.
- All plant material and specifications shall conform to the Arizona Nurseryman Association standards.
- All Right-Of-Way and City required (perimeter, retention, and parking) plant material shall be in compliance with the Department of Water Resources low water use plant list.
- Contact the Parks & Recreation Department, Forestry Supervisor, at 602-262-6862, to verify ownership of any plant material in the public R.O.W. prior to any plant re-locations or removals. Obtain written permission from the Parks and Recreation Department prior to the re-location or removal of any City plant material or equipment.
- Contact the Street Transportation Department, Horticulturist, at 602-262-6284, prior to the re-location or removal of existing plant material in the A.D.O.T. R.O.W. that is on the City's side of the sound wall. Obtain written permission from the Street Transportation Department prior to the re-location or removal of any plant material or equipment.
- All existing trees and shrubs in right-of-way designated to remain but are damaged or destroyed will be replaced in like size and kind by the contractor.
- The proposed irrigation system shall include any modifications required to tie the existing City of Phoenix irrigation system in Right-Of-Way to the proposed system. All through irrigation systems in the Right-Of-Way shall be maintained. The contractor shall be responsible for capping and/or abandoning existing irrigation to plant materials and providing new irrigation to the existing plant material, in Right-Of-Way, per the approved plan.
- Walls are not approved as part of the landscape plan but are shown for reference only.
- Trees adjacent to pedestrian walkways should have a minimum canopy clearance of six feet eight inches (6'8") per Section 507 Tab A.II.A.3.1.10 of the City of Phoenix Zoning Ordinance.
- PVC pipe laterals are required. A maximum of five feet (5') of poly tubing off of the P.V.C. pipe lateral is allowed. No poly tubing laterals are allowed.
- Plant quantities and caliper sizes, per the specific zoning requirements for this site, provided in the legend on the approved plans are required to be installed in the field. Any deviations from the plan will require a revision to the approved plan.
- Note - Minimum caliper size is a zoning requirement. If the minimum caliper cannot be met at box size that is specified, then the box size must be increased to meet caliper requirements.
- Plan approval is valid for 180 days. Prior to plan approval expiration, all associated permits shall be purchased or the plans shall be resubmitted for extension of plan approval. The expiration, extension, and reinstatement of Landscape plans and permits shall follow the same guidelines as those indicated in the Phoenix Building Construction Code Administrative Provisions Section 105.3 for Building permits.

CITY OF PHOENIX GENERAL INVENTORY / SALVAGE NOTES

- The City of Phoenix General Notes are the only notes approved on this plan. Additional general notes generated by the sealant and placed on the plans are not approved as part of this plan and are noted as such on the plans.
- Plant materials must be individually tagged in the field at the time the Inventory Plans are submitted.
- Tagged material must be clearly marked with waterproof ink and include the number which corresponds to the number shown on the plan. A field review will not occur until clearly marked tags are in place on each plant to be included in the inventory.
- Tags must be attached so that they will remain on the plant for the duration of the salvage and nursery storage period. Plant materials without numbered tags in the nursery will not be counted toward the total requirement for the project.
- All salvageable material is to be clearly flagged with tape or plastic tags visible from all directions. Tags shall be numbered to correspond with the plant inventory plan and legend.
Color code as follows:
Red Salvage and relocate.
White Preserve and protect in place.
Blue Destroy, not salvageable and cannot remain in place.
- Contact the Parks & Recreation Department, Forestry Supervisor, at 602-262-6862, to verify Ownership of any plant material in the public R.O.W. prior to any plant re-locations or removals. Obtain written permission from the Parks and Recreation Department prior to the re-location or removal of any City plant material or equipment.
- Contact the Street Transportation Department, Horticulturist, at 602-262-6284, prior to the re-location or removal of existing plant material in the A.D.O.T. R.O.W. that is on the City's side of the sound wall. Obtain written permission from the Street Transportation Department prior to the re-location or removal of any plant material or equipment.
- A Salvage permit shall be obtained and completed prior to the Grading and Drainage permit being issued. No clearing or grubbing may occur prior to the purchase of the Salvage Permit, field approval of the construction fence, and all salvaged plants placed in the nursery and field inspected.
- All protective fencing shall be in place before any earth moving equipment is moved onto the site and before any salvage, clearing or grubbing takes place. Call 602- 262-7811 to schedule an inspection of

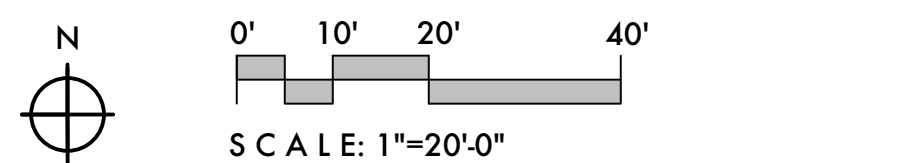
- construction fence.
- All material to be salvaged shall be removed and placed in the designated nursery area before any clearing or grading takes place. Call 602-262-7811 to schedule an inspection after salvage is completed.
- All tagged materials must remain in nursery or on-site until nursery check is approved.
- No nails, wires or other objects that damage the cambium or cause injury to the tree may be used during the salvage process. All efforts shall be taken by using padding or other methods to preserve the integrity of the bark.
- Trees and protected plant material or material noted for salvage that are destroyed or die during the salvage, relocation, or maintenance period will be replaced with a plant of equal or greater size and type by the responsible party a minimum of 90 days before the completion of the project. No Certificates of Occupancy will be issued before all required material has been replaced. All Replacement material shall be approved by the Planning & Development Landscape Architect. A maximum of 10% of the salvageable plant material will not be required to be replaced if lost.
- All requirements of the State of Arizona, including the "Notice of Intent to Clear Land," shall be met notwithstanding any approvals by the City of Phoenix.
- File Notice of Intent (NOI) to clear land with the State of Arizona, 602-542-6408.
Provide a copy of the NOI Permit to the inspector. <http://www.azda.gov/ESD/clearland.pdf>
- Provide a copy of the County Dust Control Permit to the inspector.
- No salvage material shall be removed from the site without Planning & Development Landscape Architect approval.
- Knowingly or negligently providing false or misleading information to the City of Phoenix regarding salvageable materials may result in delays and/or suspension of permits and inspections.
- Plan approval is valid for 180 days. Prior to plan approval expiration, all associated permits shall be purchased or the plans shall be resubmitted for extension of plan approval. The expiration, extension, and reinstatement of Inventory/Salvage Combination plans and permits shall follow the same guidelines as those indicated in the Phoenix Building Construction Code Administrative Provisions Section 105.3 for Building permits.

KIVA# 00-6596
SDEV#
SCSR#
LSPL# 2302189
QS# 19-33
PRLM#
AMND#





LANDSCAPE & INVENTORY & SALVAGE PLAN



PLANT SCHEDULE

| SYM. | COMMON NAME BOTANICAL NAME | SIZE BRANCH | QTY. |
|---------------------------------------|--|----------------|------|
| TREES (SEE DETAIL LA-101 : 2) | | | |
| + | CHINESE PISTACHE PISTACIA CHINENSIS | 2" CALIPER | 36 |
| SHRUBS (SEE DETAIL LA-101 : 3) | | | |
| + | FICUS HEDGE FICUS NITIDA | 5 GAL | 221 |

MATERIAL SCHEDULE

| SYM. | MATERIAL | QTY. |
|------|-------------------------------|--------|
| — | 6" H 8"x8"x16" CMU BLOCK WALL | 990 LF |

- PLANTING GENERAL NOTES:**
(NOT APPROVED AS A PART OF THIS PLAN)
- THE CONTRACTOR SHALL REVIEW PLANTING PLAN WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - THE LANDSCAPE ARCHITECT OR REPRESENTATIVE RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIALS HE DEEMS UNACCEPTABLE. SEE SPECIFICATIONS.
 - THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL PLANT MATERIAL AS SPECIFIED ON THE PLANTING PLANS. HOWEVER, SHOULD THE PLANT MATERIAL BE TEMPORARILY UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND INSTALL 5 GALLON NURSERY BUCKETS WITH IRRIGATION AT EACH PLANT LOCATION. AS THE PLANT MATERIAL BECOMES AVAILABLE, THE 5 GALLON BUCKETS SHALL BE REMOVED AND PLANT MATERIAL INSTALLED AND ALL SUBSTITUTIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
 - LOCATE PLANTS AWAY FROM SPRINKLER HEADS, LIGHT FIXTURES AND OTHER OBSTRUCTIONS.
 - FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
 - PLANTING AND IRRIGATION DESIGN MAY BE MODIFIED TO ADAPT TO WALK CONFIGURATIONS THAT DIFFER FROM THESE PLANS, OR BECAUSE OF GRADE LIMITATIONS ON SITE.
 - WATER TEST ALL TREE PLANTING HOLES PRIOR TO PLANTING. IF TREE HOLE DOES NOT DRAIN, DO NOT PLANT. SEE HARDPAN DETAIL.
 - REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS.
 - TREES SHALL BE PLANTED A MINIMUM OF 10'-0" FROM STREET LIGHTS / FIRE HYDRANTS, 6'-0" FROM EDGE OF UNDERGROUND PIPELINES AND MINIMUM OF 4'-0" FROM WALKS, CURBS AND WALLS. SHRUBS SHALL BE PLANTED A MINIMUM OF 2'-0" FROM CURB AND WALKS.
 - ALL SPECIMEN TREES, SHRUBS AND CACTI SHALL BE FIELD LOCATED BY LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE.
 - THE CONTRACTOR SHALL INSTALL ARBOR GUARDS AT ALL TREES LOCATED IN TURF AREAS.
 - ON-SITE AND OFF-SITE TOPSOIL SHALL CONFORM TO CONTENT REQUIREMENTS AS SPECIFIED IN PART 2 OF THE PLANTING SPECIFICATIONS. AGRONOMY TEST SUBMITTALS ARE REQUIRED FOR ALL MATERIAL USED FOR TOPSOIL AND BACKFILL. SUBMIT REPORT TO LANDSCAPE ARCHITECT FOR REVIEW.
 - ALL PLANT MATERIAL SHALL BE IN COMPLIANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.
 - THE CONTRACTOR SHALL PROVIDE MAINTENANCE FOR ALL PLANT MATERIAL FROM THE TIME OF INSTALLATION THROUGH SUBSTANTIAL COMPLETION.
 - CACTI SHALL BE PLANTED A MINIMUM OF 3'-0" AWAY FROM ALL PEDESTRIAN ROUTES AND SHALL BE WELL ROOTED AND NON-SCARRED.
 - NATIVE REVEGETATION AREAS AND PLANTER BEDS SHALL BE TREATED WITH PRE-EMERGENT AS PER MANUFACTURER'S INSTRUCTIONS. RE-APPLY AS NECESSARY TO ELIMINATE INVASIVE WEEDS. REMOVE ALL DEAD DEBRIS.
 - ALL TREE STAKING SHALL CONFORM TO THE PLANTING DETAILS OR AS NOTED IN THE SPECIFICATIONS. THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE SHALL REVIEW TYPICAL TREE STAKING PRIOR TO FINAL ACCEPTANCE.

INVENTORY & SALVAGE SCHEDULE (SEE DETAIL LA-101 : 1)

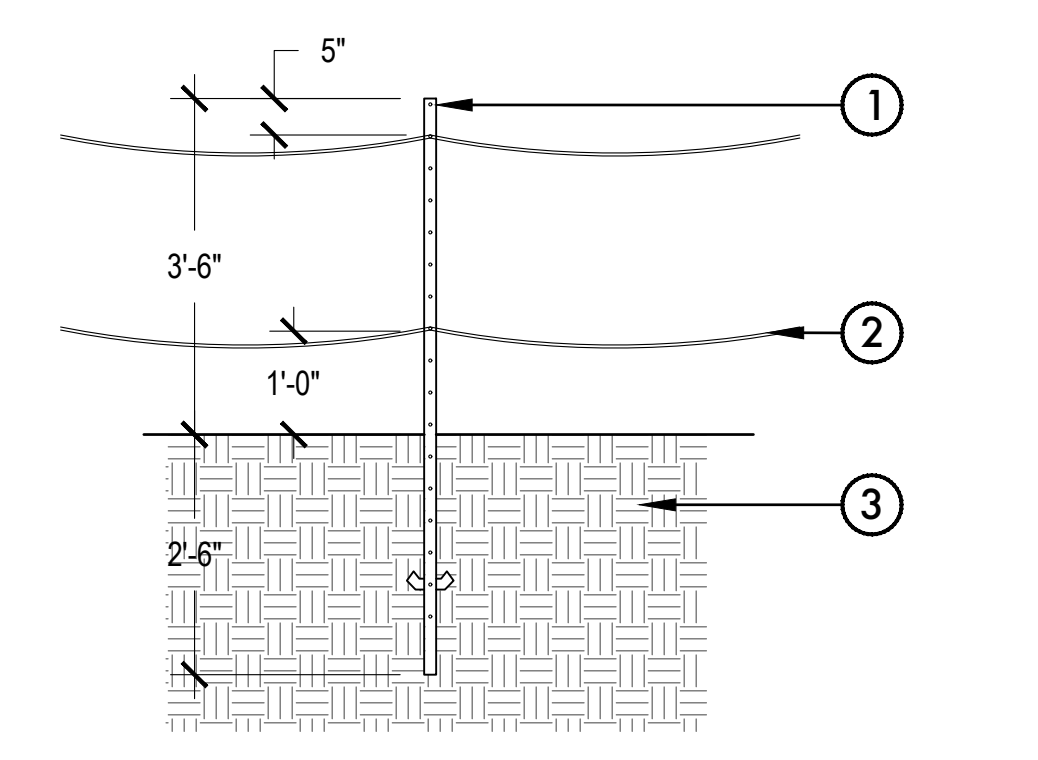
| ID | COMMON NAME | BOTANICAL NAME | FULL GROWN HT. (FT) | FULL GROWN SP (FT) | CURRENT CALIPER (INCH) OR HEIGHT (FT) | ACTION | NOTES: |
|-----|--------------------|--------------------------|---------------------|--------------------|---------------------------------------|--------|---|
| 1.3 | CAROB | CERATONIA SILIQUA | 50 | 50 | 27" | RIP | |
| 1.4 | RED GUM EUCALYPTUS | EUCALYPTUS CAMALDULENSIS | 80 | 40 | 36" | RIP | |
| 1.5 | CAROB | CERATONIA SILIQUA | 50 | 50 | 32" | RIP | |
| 1.6 | RED GUM EUCALYPTUS | EUCALYPTUS CAMALDULENSIS | 80 | 40 | 50" | RIP | |
| 2.5 | QUEEN PALM | SYAGRUS ROMANZOFFIANUM | 35 | 15 | 10" | RIP | |
| 2.6 | QUEEN PALM | SYAGRUS ROMANZOFFIANUM | 35 | 15 | 10" | RIP | |
| 3.3 | MEXICAN FAN PALM | WASHINGTONIA ROBUSTA | 80 | 10 | 16" | D | IN THE WAY OF NEW WALL & FOOTER OF NEW WALL |

PLANT NURSERY
NOT APPLICABLE. NO PLANTS BEING SALVAGED.

SALVAGE COST ESTIMATE
TREE SALVAGE \$850/TREE X 0 TREES = \$0
TREE+CACTI TO REMAIN IN PLACE \$125/PLANT X 6 TREES = \$750
TOTAL \$750

REPLACEMENT COST ESTIMATE
TREES SALVAGE AND REMAIN IN PLACE \$300/CALIPER INCH x 171 CALIPER INCHES = \$51,300

ACTION LEGEND
B DESTROY - BLUE TAG
W REMAIN IN PLACE - WHITE TAG
R SALVAGE - RED TAG



- ① T-BAR POST. SPACED 6' O.C. MAXIMUM
 - ② GOLD ROPE (TYP)
 - ③ NATIVE SOIL
- NOTE
FENCE TO BE LOCATED AS CLOSE AS POSSIBLE TO TREE CANOPY

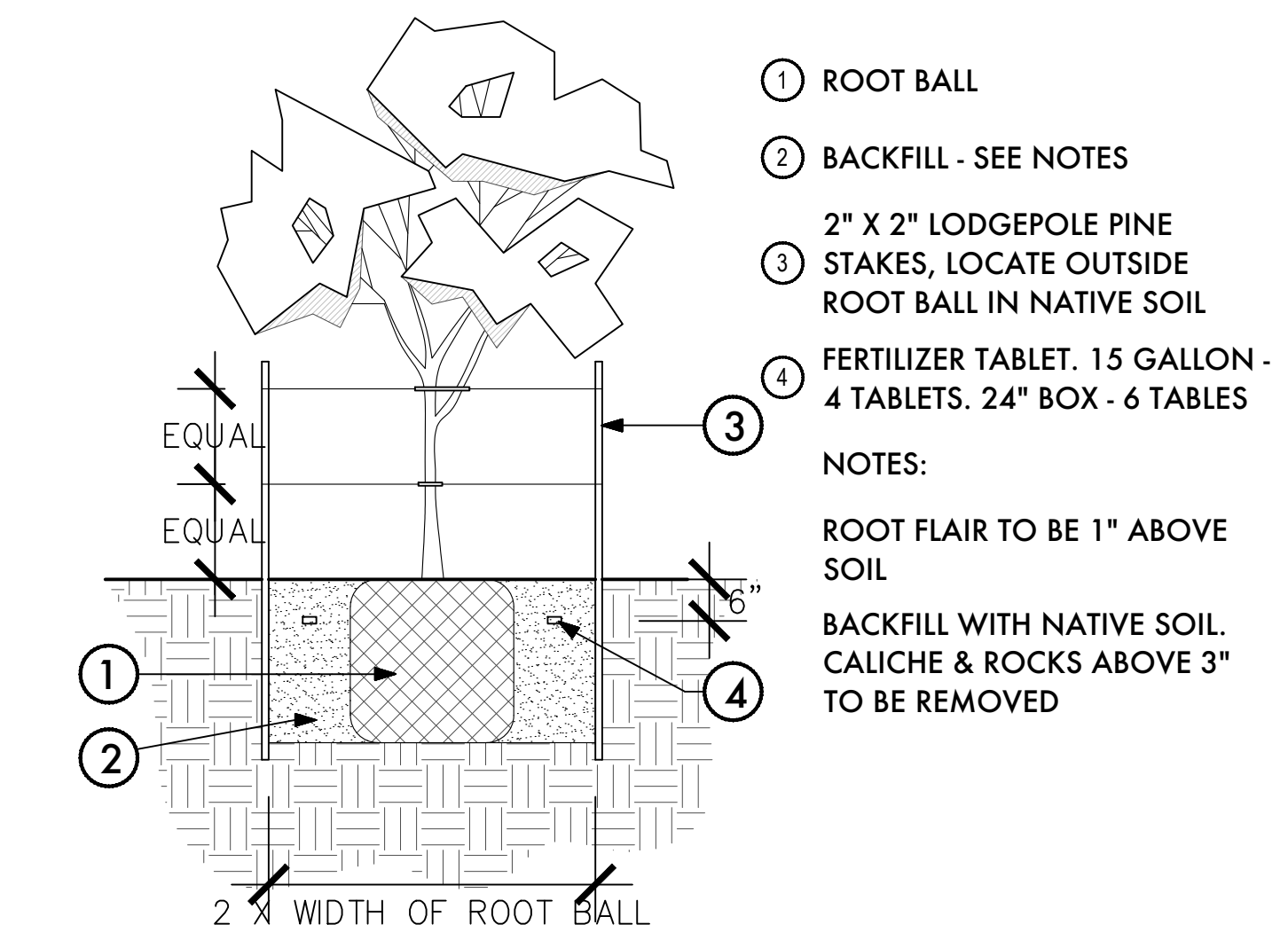
| SALVAGED (RELOCATED) | QTY. |
|-------------------------|------|
| 0 | |
| UNRELOCATED (DESTROYED) | QTY. |
| 1 | |
| REMAIN IN PLACE | QTY. |
| 6 | |

GROUNDCOVER
RETAIN + MATCH + REGRADE EXISTING D.G.

NOTE: ALL TREES TO HAVE ROOT BARRIER PARALLEL TO SIDEWALK & UTILITY LINES SEE DETAIL (LA-201:10)

1 CONSTRUCTION FENCE DETAIL

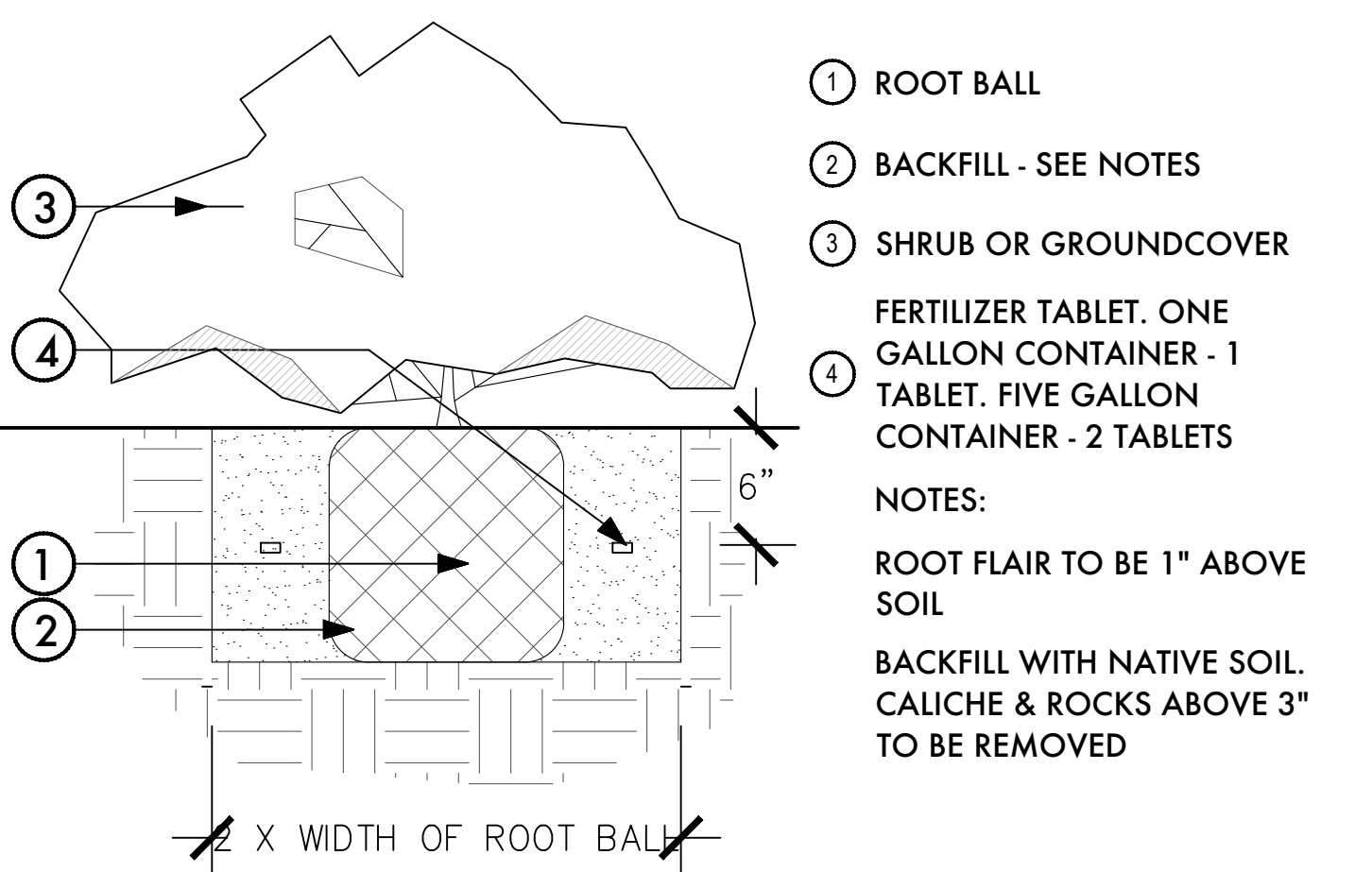
SCALE: 3/4" = 1'-0"



- ① ROOT BALL
 - ② BACKFILL - SEE NOTES
 - ③ 2" X 2" LODGEPOLE PINE STAKES, LOCATE OUTSIDE ROOT BALL IN NATIVE SOIL
 - ④ FERTILIZER TABLET. 15 GALLON - 4 TABLETS. 24" BOX - 6 TABLETS
- NOTES:
ROOT FLAIR TO BE 1" ABOVE SOIL
BACKFILL WITH NATIVE SOIL. CALICHE & ROCKS ABOVE 3" TO BE REMOVED

2 TREE PLANTING AND STAKING

SCALE: NTS



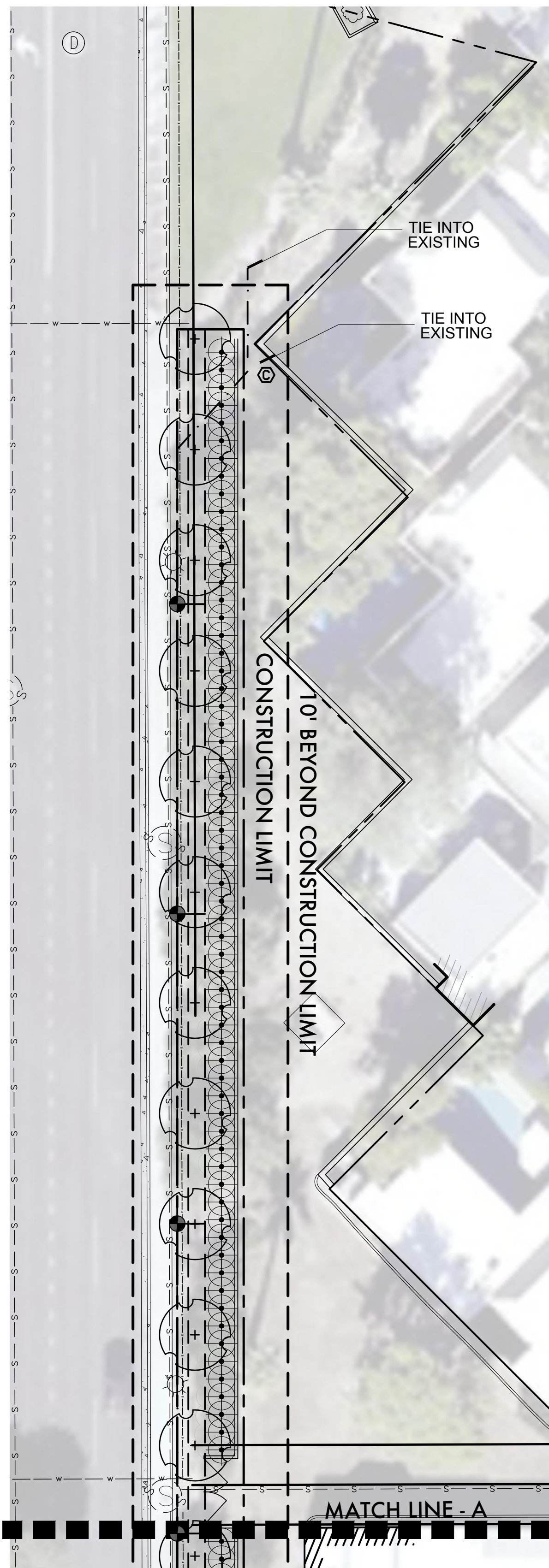
- ① ROOT BALL
 - ② BACKFILL - SEE NOTES
 - ③ SHRUB OR GROUNDCOVER
 - ④ FERTILIZER TABLET. ONE GALLON CONTAINER - 1 TABLET. FIVE GALLON CONTAINER - 2 TABLETS
- NOTES:
ROOT FLAIR TO BE 1" ABOVE SOIL
BACKFILL WITH NATIVE SOIL. CALICHE & ROCKS ABOVE 3" TO BE REMOVED

3 SHRUB AND GROUNDCOVER PLANTING

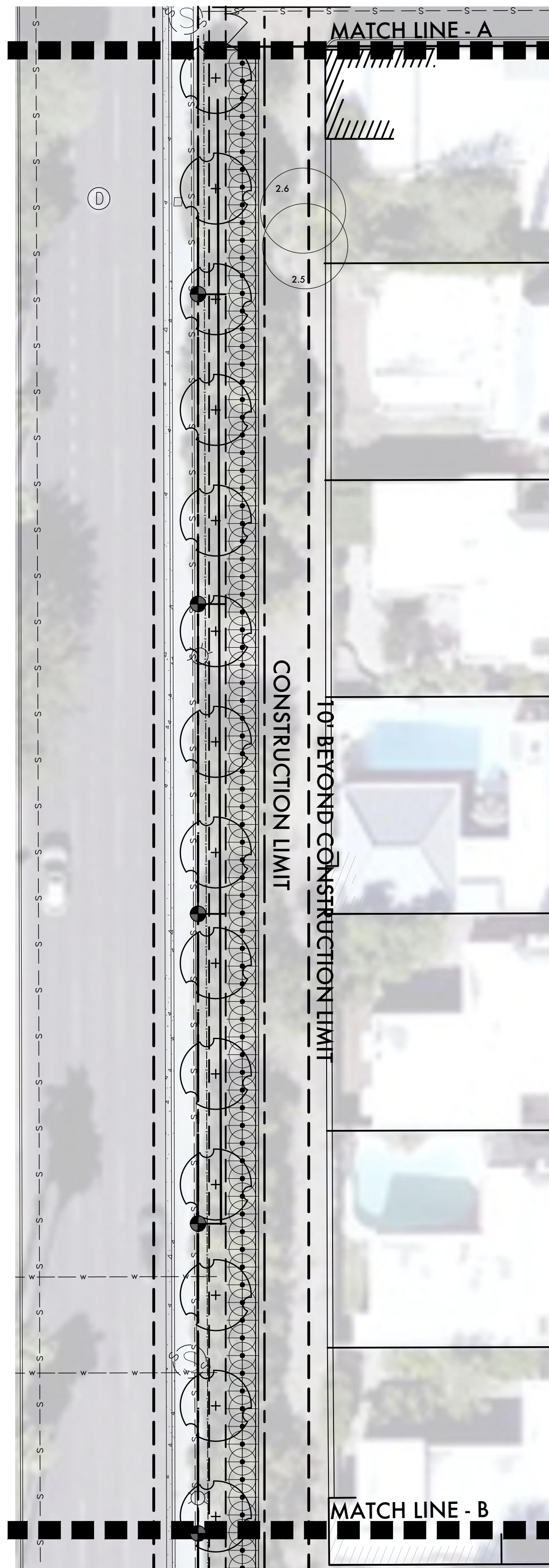
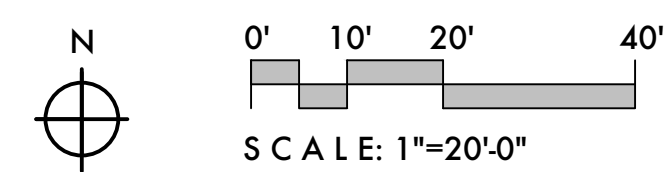
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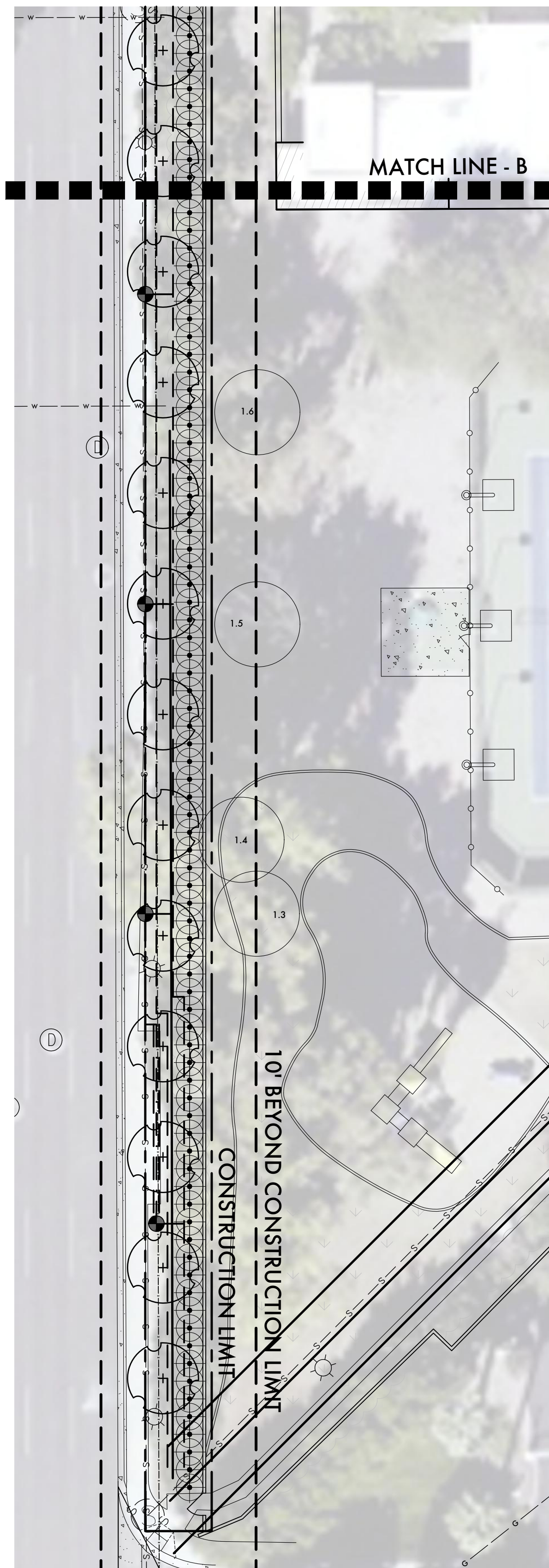


IRRIGATION PLAN



GENERAL IRRIGATION NOTES:
(NOT APPROVED AS A PART OF THIS PLAN)

- REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS, LAYOUT FOR PROVIDING DISTRIBUTION TUBING, QUANTITIES, AND LOCATION TO EACH PLANT.
- ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.
- IRRIGATION DESIGN IS SCHEMATIC FOR GRAPHIC CLARITY, ALL EQUIPMENT SHALL BE IN PLANTING AREAS.
- CONTRACTOR IS TO NOTIFY LANDSCAPE ARCHITECT IF ANY SYSTEM ADJUSTMENTS ARE NECESSARY DUE TO UNKNOWN SITE CONDITIONS, PRESSURE DISCREPANCIES, ETC.
- APPROXIMATE LOCATION OF MAINLINE AND VALVES ARE SHOWN ON PLAN. FINAL LOCATION IS TO BE DETERMINED BY OWNER'S REPRESENTATIVE. AVOID LOCATING VALVES AND VALVE BOXES IN PLAIN VIEW.
- INSTALL IRRIGATION MATERIAL/ EQUIPMENT PER PLANS, DETAILS, NOTES AND MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR COSTS AND LIABILITY RELATED TO WORK WHICH IS NOT PER DOCUMENTATION.
- VALVE SYSTEM:
 - VALVES ARE TO SERVE SIMILAR PLANT TYPOLOGIES RECOMMENDED ARE:
 - TREES
 - SHRUBS
 - CACTI
 - ANNUALS
 - POTS
- TEMPORARY IRRIGATION IS TO BE INSTALLED FOR ALL EXISTING TREES UPON REMOVAL OF GRASS IRRIGATION AS WATER SOURCE THROUGH THE INSTALLATION OF THE NEW IRRIGATION.
- MULTI HEAD PORT EMITTERS SHALL BE PLACED WITHIN A DRIP EMITTER SUBTERRANEAN BOX. RAINBIRD SEB7XB OR SIMILAR.
- WATER ATTACHMENT LOCATIONS TO BE VERIFIED BY CONTRACTOR



IRRIGATION SCHEDULE

| TYPE | MODEL | EMITTER TYPE | BUBBLER TYPE | QUANTITY |
|----------------|---------------|---------------------|--------------|-------------|
| EXISTING PALMS | HUNTER PCB-20 | | BUBBLERS | 3 |
| EXISTING TREES | HUNTER PCB-20 | | BUBBLERS | 4 TO 6 |
| CACTI | HUNTER PCB-20 | 1 GAL DRIP EMITTERS | BUBBLERS | 1 PER PLANT |
| SHRUBS | HUNTER PCB-20 | 2 GAL DRIP EMITTERS | BUBBLERS | 1 PER PLANT |
| TREES | HUNTER PCB-20 | 2 GAL DRIP EMITTERS | BUBBLERS | 4 PER PLANT |

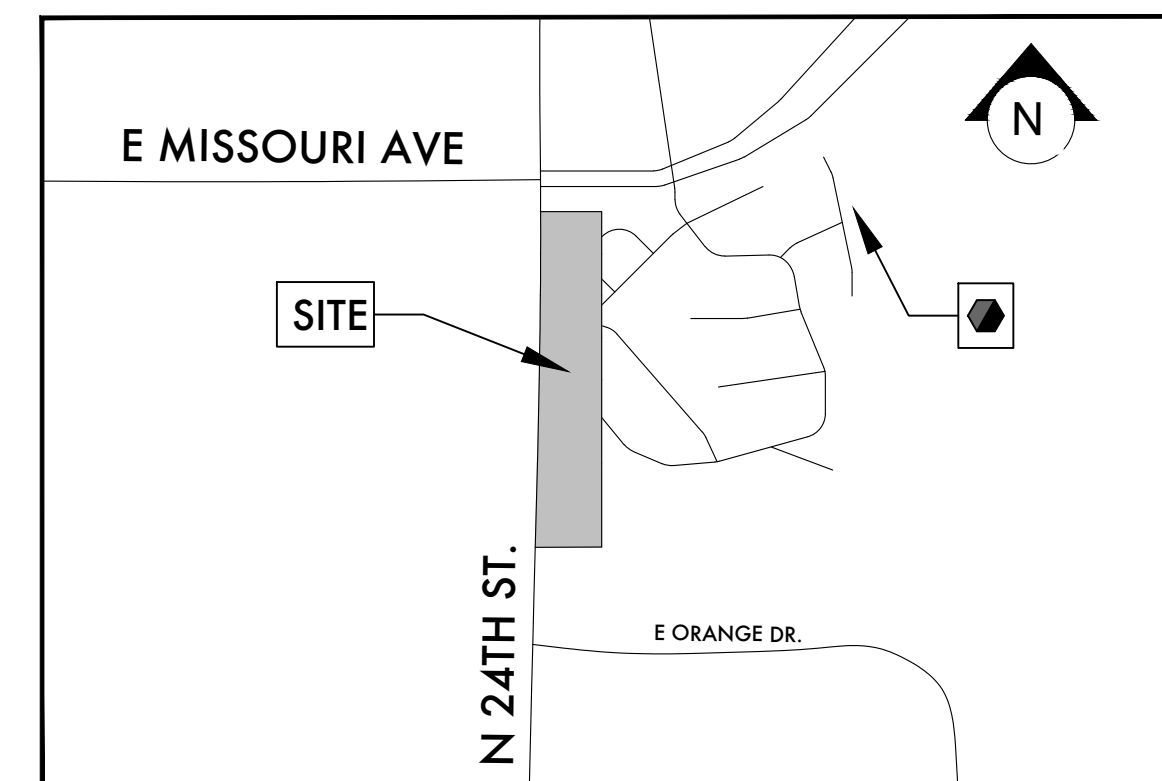
EMITTER SCHEDULE

| TYPE | MODEL - BOWSMITH EMITTER | QUANTITY/PLAN T | TOTAL GPH |
|---------------|--------------------------|-----------------|-----------|
| TREES | | | |
| 15 GAL | ML-201 | 2 | 10 |
| 24" BOX | ML-201 | 2 | 10 |
| SHRUB, ACCENT | | | |
| 1 GAL | SL-210 | 1 | 1 |
| 5 GAL | SL-210 | 1 | 1 |

IRRIGATION EQUIPMENT SCHEDULE

| SYMBOL | TYPE | DETAIL |
|---------|--|---------------------|
| ● | BACKFLOW PREVENTER | CONNECT TO EXISTING |
| ● | VALVE : RAINBIRD PGA (DRIP) | LA-201 : 12 |
| — | END CAP | |
| M | WATER METER | |
| --- | TREE & SHRUB LATERAL, PVC SCH. 40. SIZE PER PIPE SCHEDULE | LA-201 : 8 |
| - - - - | MAIN LINE: PVC SCH. 40. SIZE PER PIPE SCHEDULE | LA-201 : 8 |
| == | SLEEVE: PVC SCH. 40. 2X PIPE TO BE SLEEVED | LA-201 : 11 |
| | EMITTERS | LA-201 : 4, 5, 6, 7 |
| ⊕ | CONTROLLER (RACHIO 3 & WEATHER ENCLOSURE IRRIGATION CONTROL CLOCKS OR SIMILAR) | CONNECT TO EXISTING |

VICINITY MAP



IRRIGATION POINT OF CONNECTION NOTES:
(NOT APPROVED AS A PART OF THIS PLAN)

- POINT OF CONNECTION: INSTALL ONE GATE VALVE, TRANSITION TO SCHEDULE 40 PVC AND EXTEND TO VALVES. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS ASSOCIATED WITH THIS WORK. FINAL LOCATION OF BACKFLOW PREVENTER SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- CONTROLLER LOCATION: CONTRACTOR TO COORDINATE W/ LANDSCAPE ARCHITECT & LANDSCAPE MAINTENANCE COMPANY REPRESENTATIVE.
- WATER PRESSURE: THE SYSTEM HAS BEEN DESIGNED FOR A REQUIRED MINIMUM STATIC PRESSURE OF 50 PSI WHEN MEASURED AT THE UPSTREAM TEST COCK ON THE BACKFLOW PREVENTER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESSURE IN THE FIELD BEFORE CONSTRUCTION BEGINS AND FOR NOTIFYING THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DESIGN PRESSURE OF THE IRRIGATION SYSTEM AND THE MEASURED PRESSURE IN THE FIELD.

IRRIGATION LEGEND

| VALVE | DESCRIPTION | NOTES |
|-------|-----------------|--------|
| 1 | ACCENTS + CACTI | 1 1/4" |
| 2 | TREES | 1 1/2" |

PIPE SCHEDULE

| PIPE SIZE | GALLONS/MINUTE | PIPE SIZE | GALLONS/MINUTE |
|-----------|----------------|-----------|----------------|
| 1/2" | 0-5 | 1 1/4" | 16-25 |
| 3/4" | 6-10 | 1 1/2" | 26-35 |
| 1" | 11-15 | | |

VALVE SCHEDULE

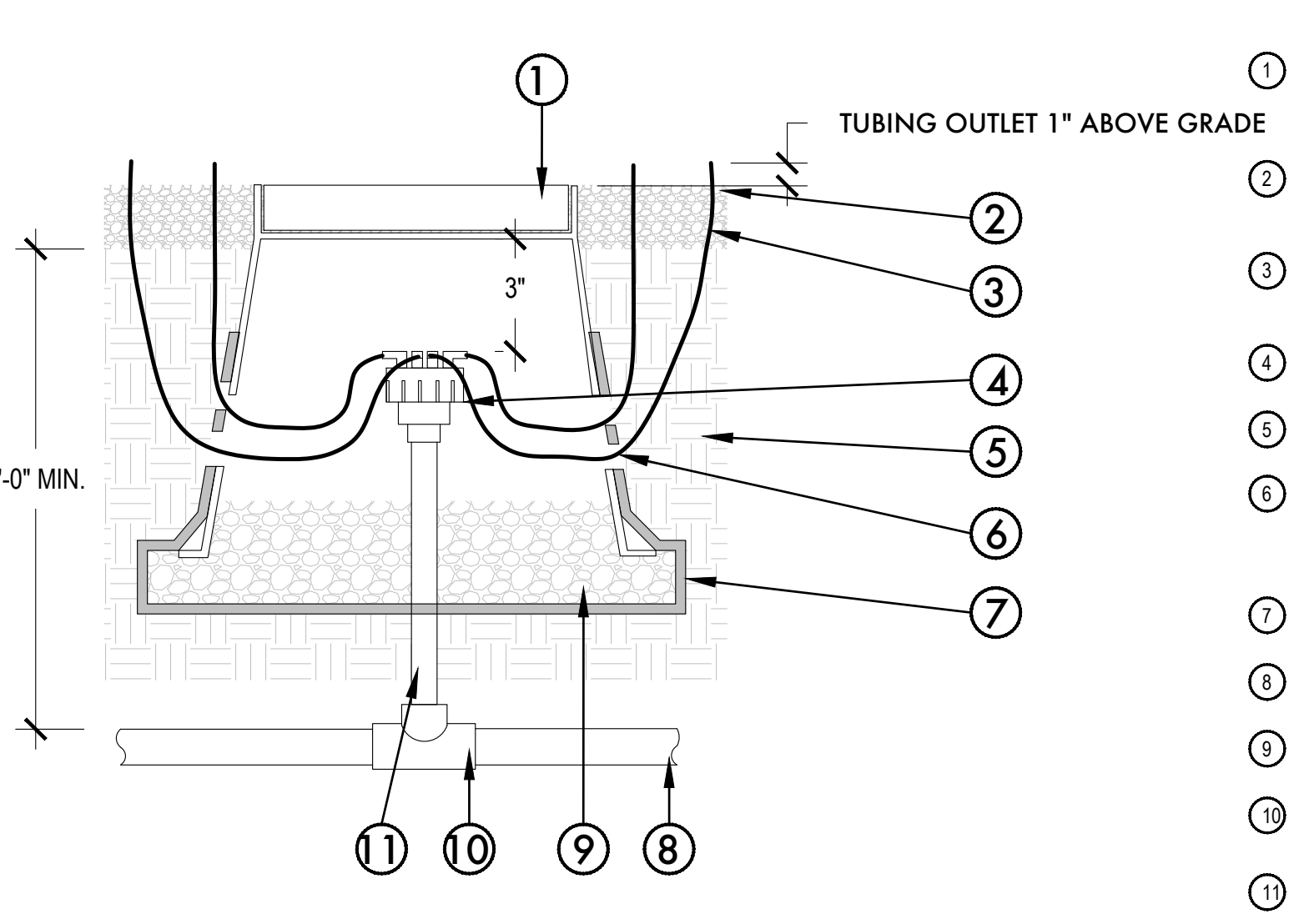
| EACH BUILDING TO HAVE MINIMUM | |
|-------------------------------|-----------------------|
| 1 | SHRUB VALVE |
| 1 | ACCENTS + CACTI VALVE |
| 2 | TREES VALVE |

NOTES

- ALL 1/2" LATERAL PIPE TO BE CLASS 315 PVC. ALL PIPE 3/4" TO 2-1/2" TO BE SCH. 40 PVC. PIPE 3" AND LARGER TO BE CLASS 200 PVC OR AS NOTED ON IRRIGATION LEGEND.
 - MAINLINE - SCH. 80 FITTINGS.
 - LATERAL AND DRIP LINES SCH. 40 FITTINGS.
 - PRESSURE TEST, 4 HOURS:
 - MAINLINE 150 PSI
 - LATERALS AND DRIP LINE 70 PSI
- SLEEVE PER DETAILS (SLEEVE UNDER ALL PAVING INCLUDING ALL FUTURE ANTICIPATED VEHICULAR ENTRANCES, SIDEWALKS, DRAINAGE STRUCTURES, AND ETCETERA TYPICAL).
- LATERAL LINES - COORDINATE FINAL LOCATION WITH GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO BREAKING GROUND. (400' MAX. LENGTH FROM MAINLINE).
- AUTOMATIC IRRIGATION VALVE WITH Y-STRAINER LOCATION TYPICAL. (INSTALL PER DETAILS IN NEAR VICINITY - COORDINATE PLACEMENT WITH SITE SUPERINTENDENT)
- MULTIHEAD EMITTERS ARE TO BE USED WHEN AVAILABLE

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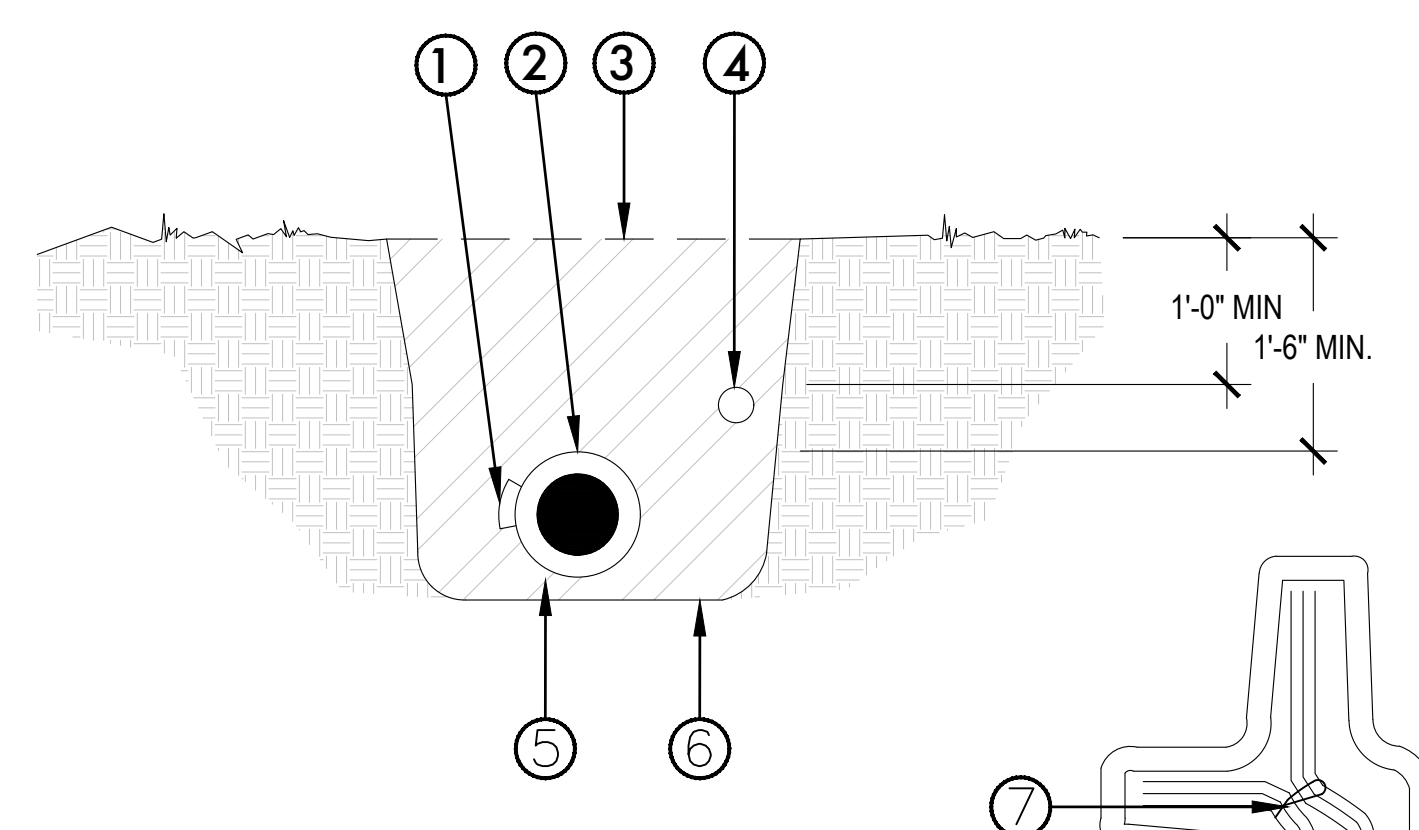




- ① 6" TAN PLASTIC ROUND VALVE BOX W/ TWIST-LOCK LID. SET FLUSH W/ FINISHED GRADE. HEAT BRAND "e" INTO LID
- ② FINISHED GRADE
- ③ TUBING SHALL BE BURIED MIN. 8" AND DAYLIGHT VERTICAL
- ④ MULTI-PORT DRIP EMITTER
- ⑤ NATIVE OR AMENDED SOIL
- ⑥ DISTRIBUTION TUBING, 1/4" I.D. RUN THROUGH OPENING IN VALVE BOX, MAX. 5' LENGTH
- ⑦ FILTER FABRIC
- ⑧ SCH 40 LATERAL LINE
- ⑨ PEA GRAVEL
- ⑩ SCH 40 PVC SXSXS TEE FITTING
- ⑪ 1/2" SCH 80 PVC FLEX RIDER W/ SCH 40 PVC MALE ADAPTER

4 EMITTER

SCALE: NTS

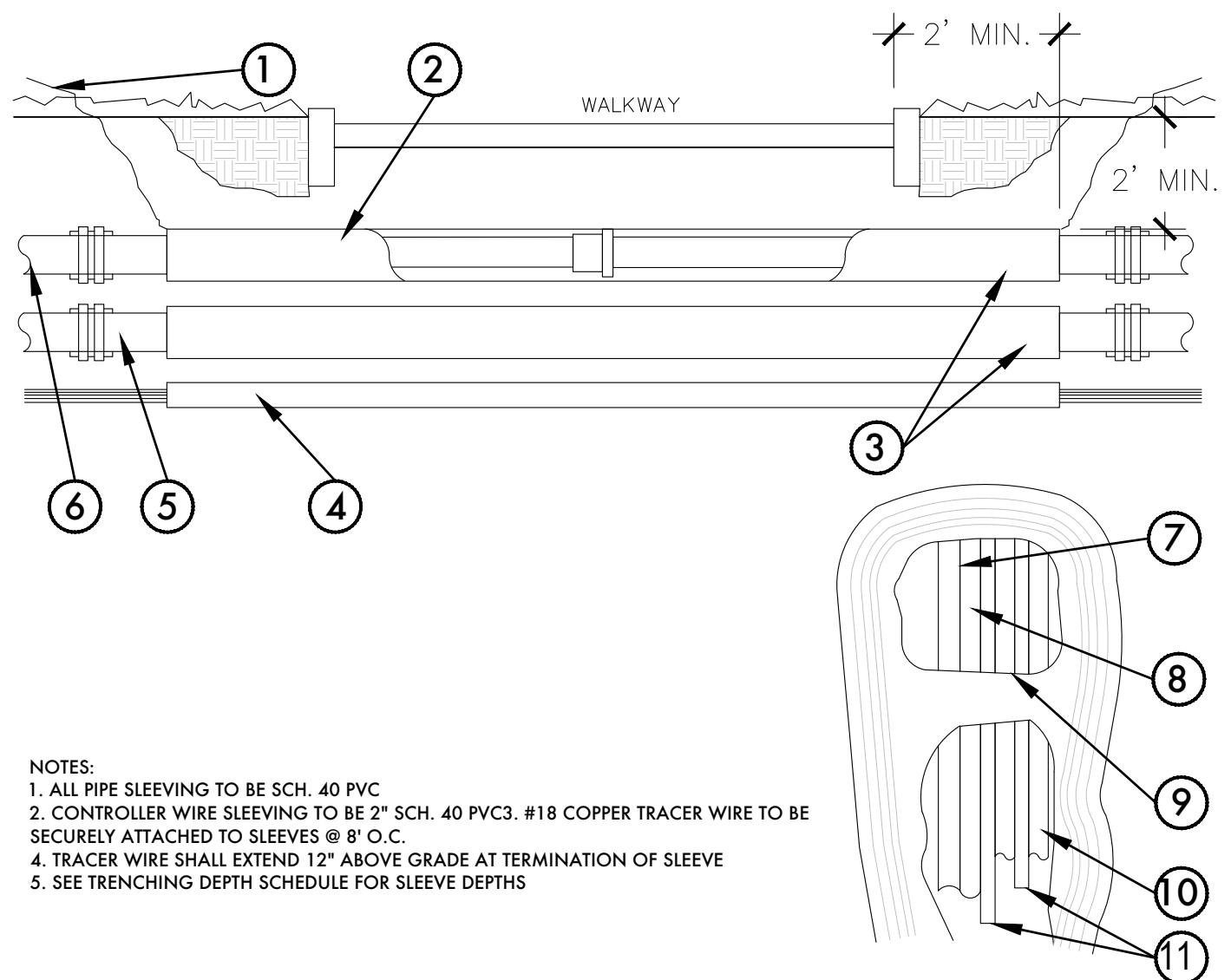


- ① WIRING TAPED EVERY 12"
- ② MAINLINE
- ③ FINISH GRADE
- ④ LATERAL LINE
- ⑤ 110V IF REQ'D.
- ⑥ BEDDING IF IN ROCK SEE SPECIFICATIONS
- ⑦ TIE A LOOSE 24" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER 30°. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE

- NOTES:
 1. PLACE ALL PIPE IN LANDSCAPE WITHIN SPECIFIED PROPERTY.
 2. INSTALL WIRING PER LOCAL CODE.
 3. SNAKE PLASTIC PIPING IN TRENCHES.
 4. COMPACT TRENCH THOROUGHLY TO MATCH ADJACENT SOIL DENSITIES.

8 PIPE DEPTH

SCALE: NTS



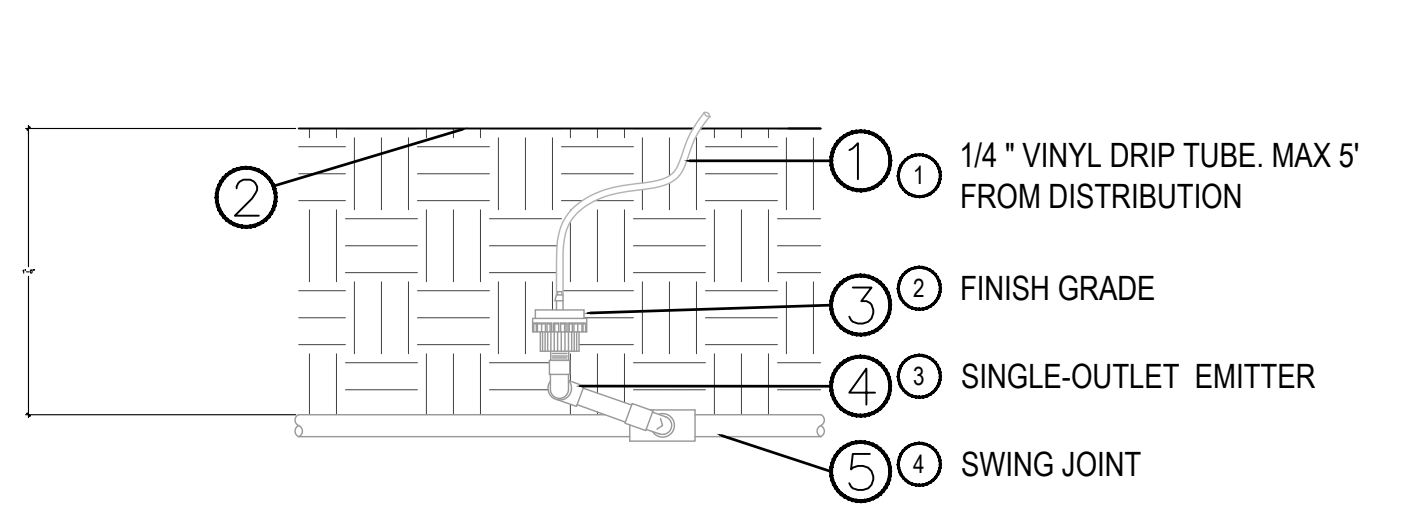
- ① TRACER WIRE SHALL EXTEND 12" ABOVE GRADE AT TERMINATION OF SLEEVE
- ② #18 COPPER TRACER WIRE. TAPE TRACER WIRE TO MAINLINE SLEEVE
- ③ SCH. 40 PVC
- NOTE: 2" SCH. 40 PVC TO BE INSTALLED FOR CONTROLLER WIRING. NOT SHOWN GRAPHICALLY ON PLANS
- ④ CL 200 PVC LATERAL
- ⑤ SCH. 40 PVC MAIN
- ⑥ #18 COPPER TRACER WIRE
- ⑦ SCH. 40 PVC MAINLINE SLEEVE
- ⑧ CL 200 PVC LATERAL LINE SLEEVE
- ⑨ CL 200 PVC WIRING SLEEVE
- ⑩ 4" MIN. SEPERATION

11 SLEEVE PIPE

SCALE: NTS

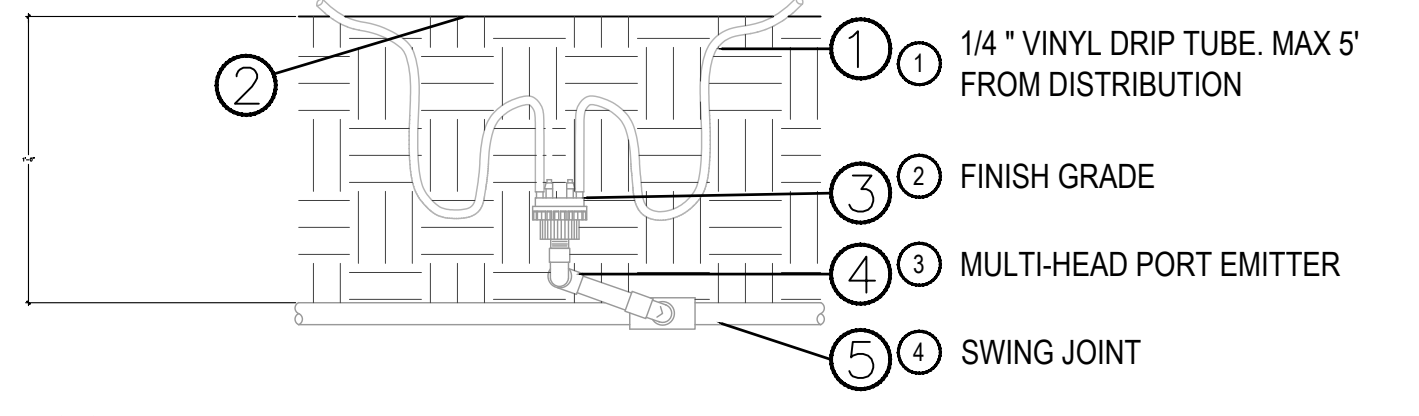


- NOTES:
 1. ALL PIPE SLEEVING TO BE SCH. 40 PVC
 2. CONTROLLER WIRE SLEEVING TO BE 2" SCH. 40 PVC. #18 COPPER TRACER WIRE TO BE SECURELY ATTACHED TO SLEEVES @ 8" O.C.
 4. TRACER WIRE SHALL EXTEND 12" ABOVE GRADE AT TERMINATION OF SLEEVE
 5. SEE TRENCHING DEPTH SCHEDULE FOR SLEEVE DEPTHS



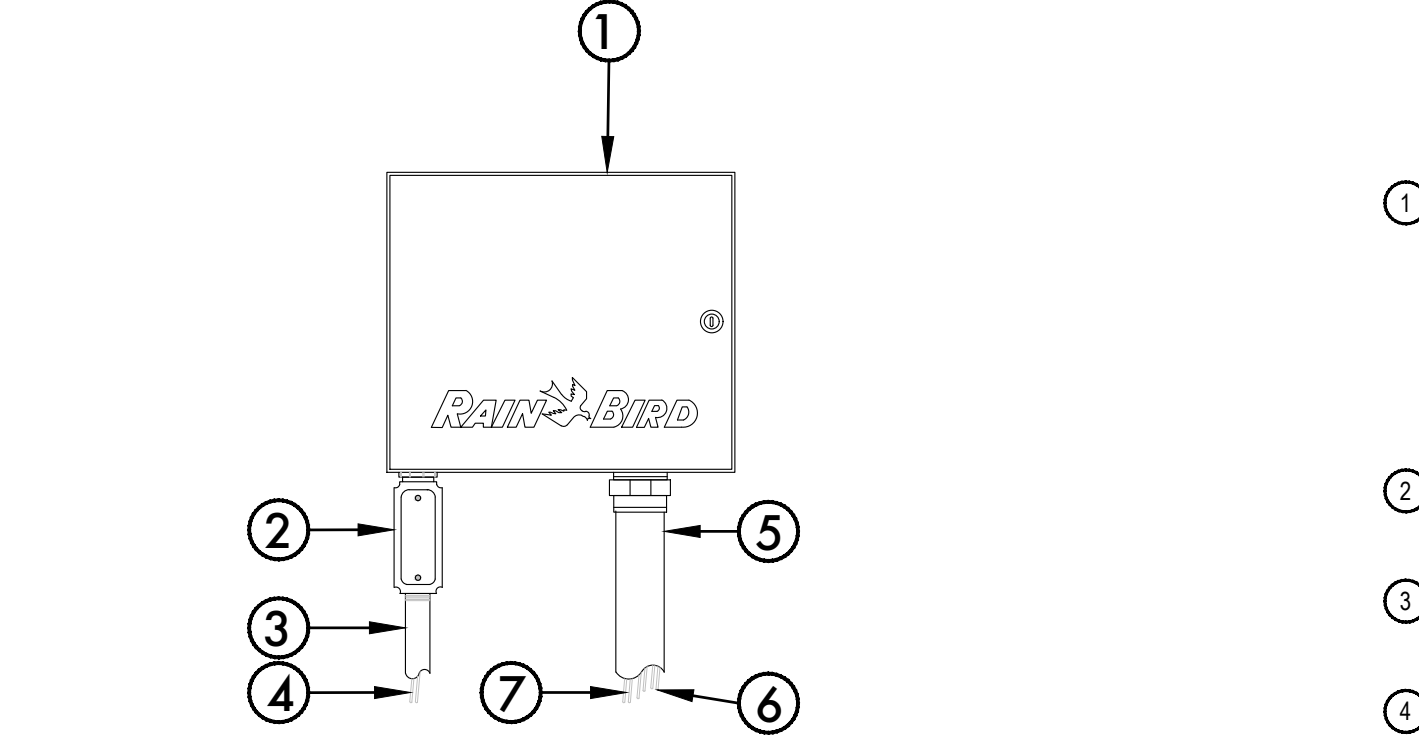
5 SINGLE OUTLET EMITTER

NTS



6 MULTI-HEAD PORT EMITTER - SHRUB

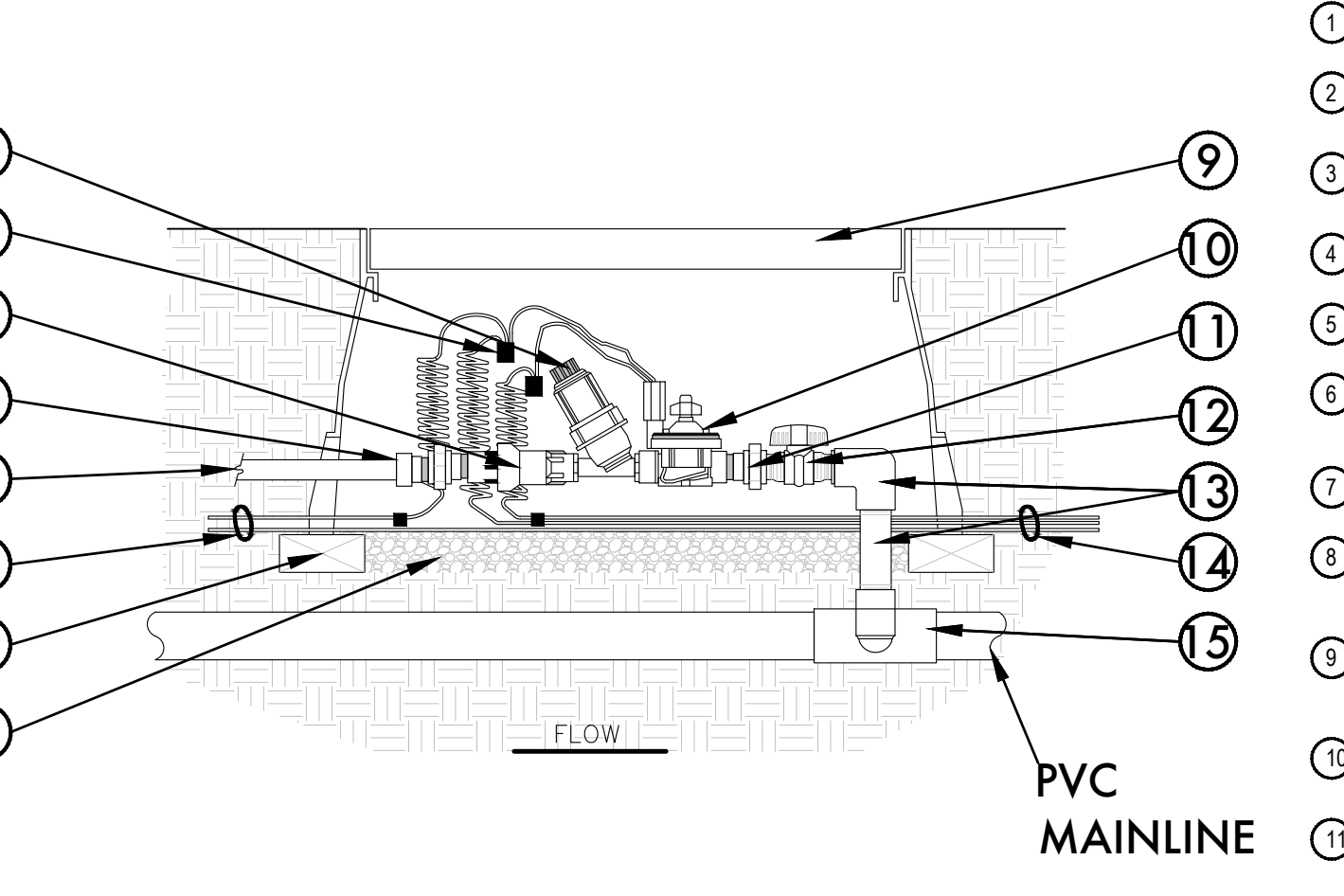
NTS



- IRRIGATION CONTROLLER: RAIN BIRD ESP-LXMEF CONTROLLER W/ FLOW SMART MODULE IN LXMM METAL CABINET W/ OUTSIDE WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- ① JUNCTION BOX
 - ② 1" CONDUIT AND FITTINGS TO POWER SUPPLY
 - ③ POWER SUPPLY WIRE
 - ④ 2" CONDUIT AND FITTINGS FOR STATION WIRES
 - ⑤ MASTER VALVE AND REMOTE CONTROL VALVE WIRES
 - ⑥ FLOW SENSOR WIRE (PE 39,89 OR 54) TO FLOW SENSOR

9 CONTROLLER

SCALE: NTS

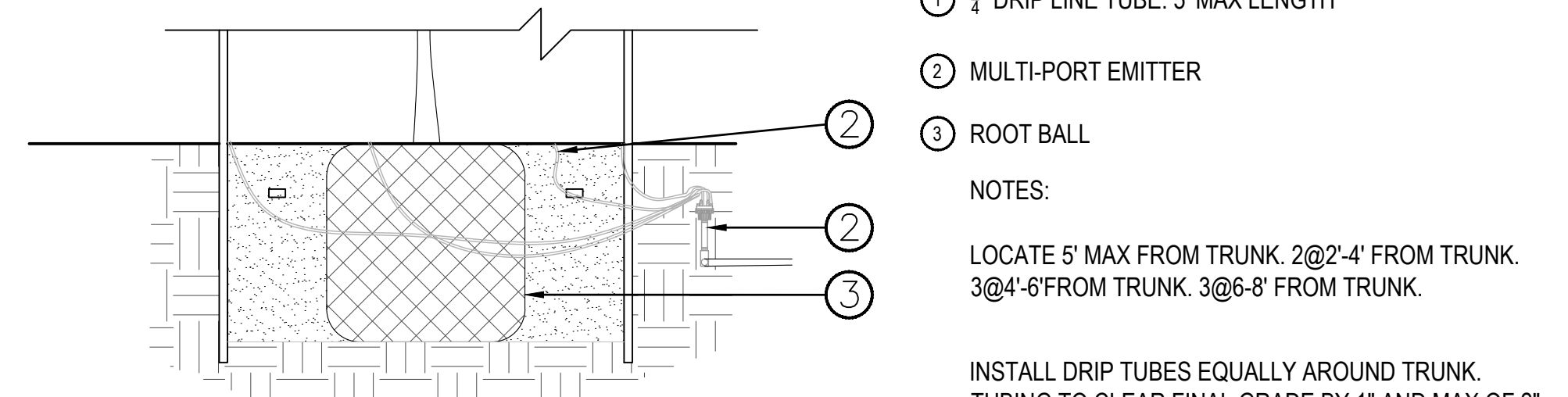


- ① WYE FILTER PER SCHEDULE
- ② WATERPROOF CONNECTORS
- ③ PRESSURE REGULATOR PER SCH.
- ④ PVC TO POLY ADAPTER
- ⑤ 3/4" POLY DRIP LATERAL
- ⑥ COMMON AND CONTROL WIRE TO NEXT VALVE
- ⑦ BRICK SUPPORTS 4 MIN
- ⑧ 3/4" GRAVEL SUMP. 4" DEPTH
- ⑨ PLASTIC LOCKING VALVE BOX. TOP OF BOX FLUSH W/ FINISH GRADE
- ⑩ CONTROL VALVE
- ⑪ SCH. 80 PVC UNION (TYP.) OF 2
- ⑫ PVC BALL VALVE
- ⑬ SCH. 80 ELL AND NIPPLE
- ⑭ WIRES FROM CONTROLLER
- ⑮ SCH. 80 PVC TEE

- NOTES:
 1. BUNDLE AND TAPE WIRE EVERY 10 FT. SEAL WIRE ENDS W/ WATERPROOF SPLICING MATERIAL.
 2. 30" MIN. LENGTH OF CONTROL WIRE COILED AND PLACED IN BOX AT WATERPROOF CONNECTION TO SOLENDID.

12 VALVE

SCALE: NTS

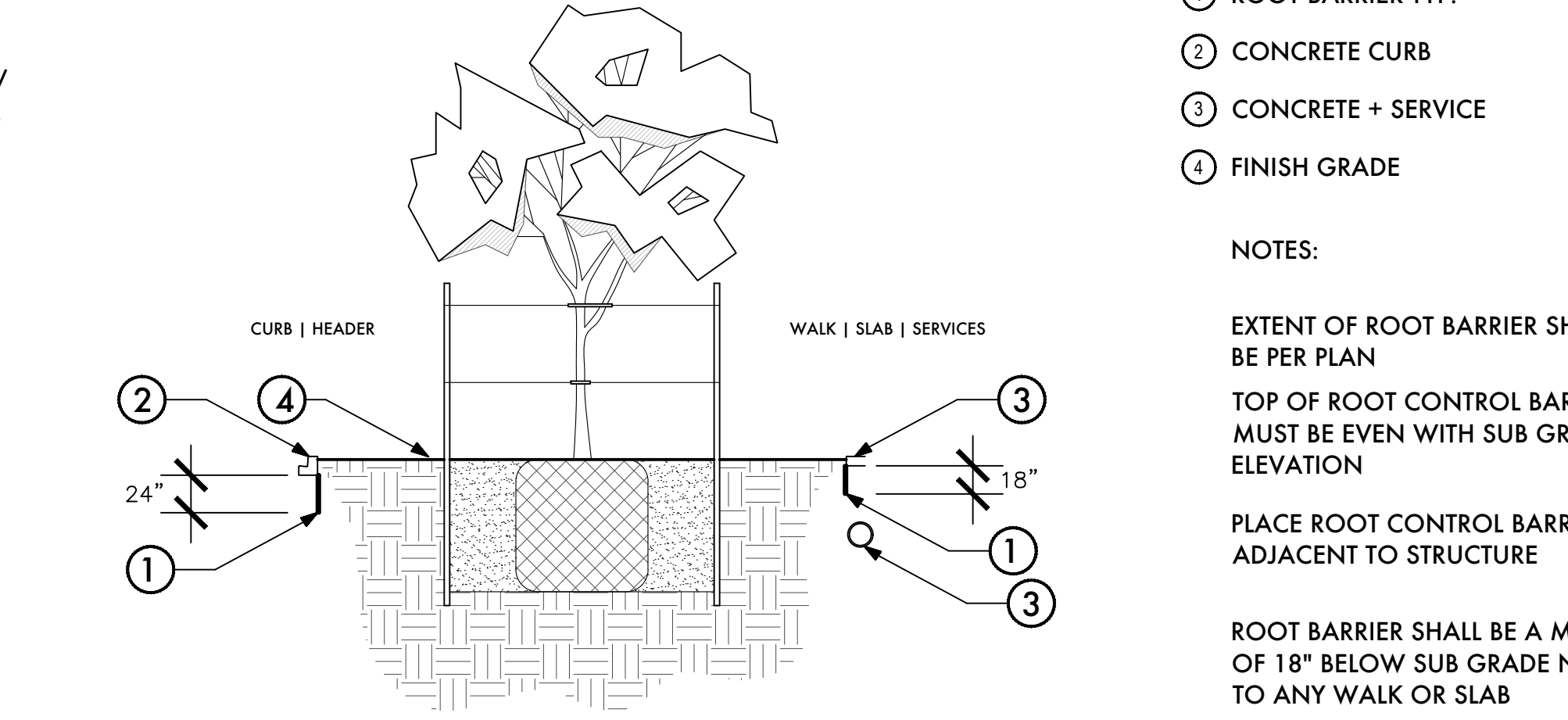


7 MULTI-HEAD PORT EMITTER - TREE

NTS

- ① 1/4" DRIP LINE TUBE. 5' MAX LENGTH
 - ② MULTI-PORT EMITTER
 - ③ ROOT BALL
- NOTES:
 LOCATE 5' MAX FROM TRUNK. 2@2'-4" FROM TRUNK. 3@4'-6" FROM TRUNK. 3@6'-8" FROM TRUNK.

INSTALL DRIP TUBES EQUALLY AROUND TRUNK. TUBING TO CLEAR FINAL GRADE BY 1" AND MAX OF 2". REFER TO EMITTER LEGEND FOR QUANTITIES.



- ① ROOT BARRIER TYP.
 - ② CONCRETE CURB
 - ③ CONCRETE + SERVICE
 - ④ FINISH GRADE
- NOTES:
 EXTENT OF ROOT BARRIER SHALL BE PER PLAN
 TOP OF ROOT CONTROL BARRIER MUST BE EVEN WITH SUB GRADE ELEVATION
 PLACE ROOT CONTROL BARRIER ADJACENT TO STRUCTURE
 ROOT BARRIER SHALL BE A MIN. OF 18" BELOW SUB GRADE NEXT TO ANY WALK OR SLAB
 ROOT BARRIER SHALL BE A MIN. OF 24" BELOW SUB GRADE NEXT TO ANY CURB OR HEADER

10 ROOT BARRIER

SCALE: NTS

KIVA# 00-6596
 SDEV#
 SCSR#
 LSPL# 2302189
 QS# 19-33
 PRLM#
 AMND#

