

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
1661 E. CAMELBACK ROAD SUITE 400
PHOENIX, AZ 85016
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LANDSCAPE ARCHITECT

KIMLEY-HORN AND ASSOCIATES, INC.
1661 E. CAMELBACK ROAD SUITE 400
PHOENIX, AZ 85016
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CONTACT: MARISSA PELLEGRINI, PLA

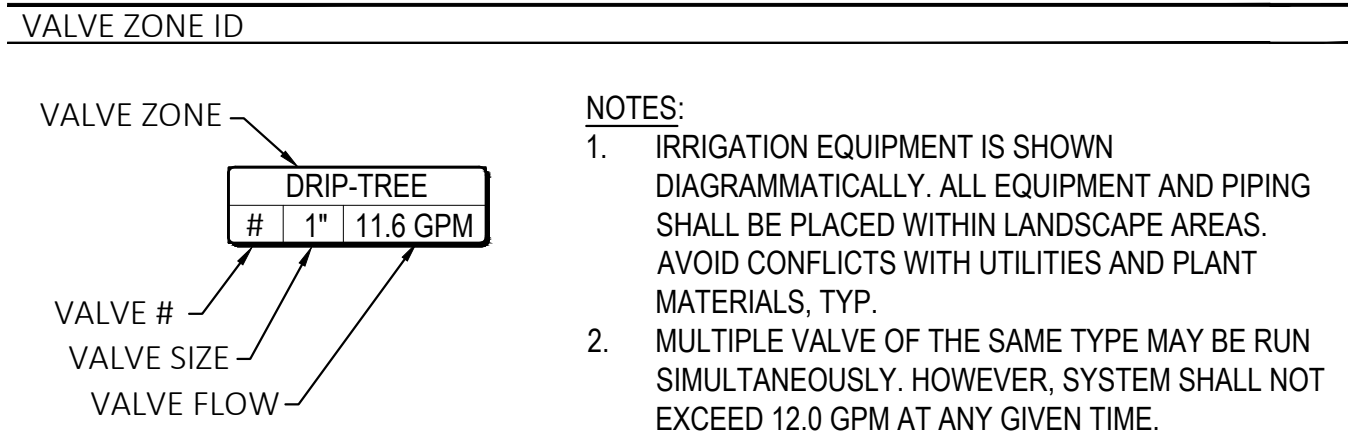
LANDSCAPE IMPROVEMENT PLANS
FOR
THE CITY OF MARICOPA COPPER SKY FIELDHOUSE
44345 M.L.K. JR BOULEVARD
MARICOPA, ARIZONA 85138

PLANTING LEGEND

TREES			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Existing Tree (Protect in Place)	Varies	-	
Remain in Place			
Existing Tree (Salvage)	Varies	17	
Box and Relocate, if Possible			
Acacia aneura	1" Cal. Min., 7" Ht. Min., 3' Sp. Min. 24" Box	28	
Mulga			
Chilopsis linearis	1" Cal. Min., 4" Ht. Min., 6' Sp. Min. 24" Box	23	
Desert Willow			
Pistacia x 'Red Push'	1" Cal. Min., 3½" Ht. Min., 8' Sp. Min. 24" Box	19	
Red Push Pistache			
SHRUBS			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Encelia farinosa	5 Gal.	68	
Brittlebush			
Eremophila hygrophana	5 Gal.	106	
Blue Bells			
Justicia spicigera	5 Gal.	24	
Chuparosa			
Larrea tridentata	5 Gal.	40	
Creosote			
Simmondsia chinensis	5 Gal.	49	
Jojoba			
ACCENTS			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Agave americana	5 Gal.	39	
Century Plant			
Agave desmettiana	5 Gal.	21	
Smooth Agave			
Asclepias subulata	5 Gal.	54	
Desert Milkweed			
Echinocactus grusonii	5 Gal.	6	
Golden Barrel			
Euphorbia antisiphilitica	5 Gal.	51	
Candelilla			
Fouqueria splendens	5 Gal.	24	
Ocotillo			
Hesperaloe parviflora 'Yellow'	5 Gal.	31	
Yellow Yucca			
Lophocereus marginatus	5 Gal.	32	
Mexican Fencepost			
Muhlenbergia rigens	5 Gal.	42	
Deer Grass			
ACCENTS			
BOTANICAL NAME / COMMON NAME	SIZE	QTY	
Podranea ricasoliana	5 Gal.	8	
Pink Trumpet Vine			
MATERIALS			
DESCRIPTION	QTY		
Decomposed Granite 3" Minus, Color: Mountain Vista Brown, 3" Depth Min.	43,350 SF		

IRRIGATION LEGEND

EQUIPMENT		
SYMBOL	MANUFACTURER / DESCRIPTION	QTY
	Existing 1" Irrigation Meter and Backflow Preventer, See Utility Plans for Additional Information	-
	Existing Controller	-
	Existing Master Valve	-
	Existing Flow Sensor	-
	Flush End Cap	31
<i>not shown</i>	Rain Bird XBT-20-6 (1 per tree, 6 ports open)	AS REQ'D
	Rain Bird XBT-10-6 (1 per shrub, 5 ports open max)	AS REQ'D
SLEEVE SCHEDULE		
SYMBOL	DESCRIPTION	
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal	140 LF
	"X" Indicates Quantity	
PIPE SCHEDULE		
SYMBOL	SIZE / DESCRIPTION	
	SCH 40 PVC Tree Lateral	1,610 LF
	SCH 40 PVC Shrub Lateral	2,325 LF
	Flow (GPM)	Pipe Size
	0-5.0	½"
	5.1-10	¾"
	10.1-15	1"
		Pipe Class
		SCH 40 PVC
		SCH 40 PVC



CITY OF MARICOPA LANDSCAPE STANDARDS

REQUIREMENT	REQUIRED	PROVIDED
PARKING LOT		
• 1 TREE/3 SHRUBS PER PARKING ISLAND (4 TOTAL)	4 TREES 12 SHRUBS	4 TREES (3 EXIST. TREES) 16 EXISTING SHRUBS
GENERAL LANDSCAPE		
• 1 TREE/6 SHRUBS PER 650 SF OF LANDSCAPE AREA (130,900 SF)	202 TREES 1,212 SHRUBS	*203 TREES PROVIDED
• 10% OPEN SPACE PROVIDED	10% OPEN SPACE	PROVIDED
• 40% GROUND COVER	40% GROUND COVER	PROVIDED
• 50% MIN. 24" BOX+ TREES (31 REQUIRED TREES)	(32) 24" BOX+ TREES 50% 5 GAL+ SHRUBS	(62) 24" BOX+ TREES 100% 5 GAL+ SHRUBS
• 50% MIN. 5 GAL+ SHRUBS		

*31 TREES PROVIDED FOR GENERAL LANDSCAPE WERE INCREASED TO 24" BOX FOR A 2:1 SUBSTITUTION RATE (+16 TREES) TO MEET CODE REQUIREMENT. PLUS 83 REMAINING AND SALVAGED TREES AT OR LARGER THAN 24" BOX (+42 TREES).
TOTAL GENERAL TREES = 203 TREES

GENERAL LANDSCAPE NOTES

- ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION AS SHOWN ON PLANS.
- SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE CONSIDERED INCIDENTAL WORK.
- CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
- CONTRACTOR IS TO REVIEW PLANS, VERIFY SITE CONDITIONS AND PLANT QUANTITIES PRIOR TO INSTALLATION. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
- THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.
- THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC., DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
- ALL SURPLUS EXCAVATION SHALL BE TAKEN TO A SITE DESIGNATED BY OWNER, AT NO ADDITIONAL COST TO THE OWNER. IF OWNER CHOOSES, THE CONTRACTOR MAY TAKE POSSESSION OF SURPLUS EXCAVATION MATERIAL.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR IS TO MAINTAIN CONTROLLED PEDESTRIAN AND ADA ACCESS THROUGH ALL AREAS OF THE SITE THROUGHOUT CONSTRUCTION PERIOD.
- MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, ROCK MULCH AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
- PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.
- EROSION CONTROL MEASURES (IE: SILT FENCING AND SEDIMENT CONTROL) SHALL BE MAINTAINED BY THE CONTRACTOR PER CIVIL SPECIFICATIONS. ANY EROSION CONTROL MEASURES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED PER CIVIL SPECIFICATIONS.
- PLANT QUANTITIES LISTED IN THE PLANT LEGEND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL DO THEIR OWN TAKE-OFFS AND BASE BID ACCORDINGLY.
- ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED (WHEN IN-LEAF) AS IS TYPICAL FOR THE SPECIES. THEY SHALL HAVE HEALTHY, WELL DEVELOPED STANDARDS, AND FREE OF ANY BRUISES, CUTS OR OTHER ABNORMALITIES. PLANT MATERIAL SHALL BE SIZED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
- OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE.
- LANDSCAPE CONTRACTOR TO TAG AND HOLD ALL PLANT MATERIAL A MINIMUM OF 30 DAYS PRIOR TO DATE OF INSTALLATION. ALL PLANT MATERIAL SUBSTITUTIONS MADE WITHIN THE 30 DAYS PRIOR TO INSTALLATION TO BE THE NEXT SIZE LARGER AT NO ADDITIONAL COST TO THE CLIENT.
- ALL TREE LOCATIONS TO BE STAKED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- INSTALL ALL CANOPY TREES WITH A MINIMUM OF 5 FT. SEPARATION FROM ALL UTILITIES, UNLESS A ROOT BARRIER IS UTILIZED.
- THE LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANTED AREAS BY MEANS OF CONTINUOUS WATERING, PRUNING, RAISING TREE ROOT BALLS WHICH SETTLE BELOW GRADE, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE PLANTING FREE OF INSECTS AND DISEASES, FERTILIZING, WEEDING, MOVING, EDGING AND/OR OTHER OPERATIONS NECESSARY FOR PROPER CARE AND UPKEEP.
- ROCK MULCH: ALL AREAS LABELED ROCK MULCH ON THE PLANS ARE TO BE APPROVED BY OWNER. 2" MINIMUM DEPTH THROUGHOUT ENTIRE PROJECT. FINISH GRADE IN ALL AREAS TO BE SMOOTH AND EVEN AND 1" BELOW TOP OF CURB OR SIDEWALK.
- AREAS TO RECEIVE ROCK MULCH SHALL BE SPRAYED AT LEAST ONCE WITH A CONTACT HERBICIDE PRIOR TO PLANTING OPERATIONS IMMEDIATELY PRIOR TO PLACEMENT OF ROCK MULCH. CONTRACTOR TO APPLY PRE-EMERGENT PER MANUFACTURER RECOMMENDATIONS.
- ROCK MULCH SHALL EXTEND UNDER TREES AND SHRUBS.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE ENTIRE PROJECT FOR 90 DAYS AFTER ACCEPTANCE OF THE WORK OWNERS REPRESENTATIVE. UPON COMPLETION OF THE MAINTENANCE PERIOD THE OWNER WILL ASSUME ALL MAINTENANCE RESPONSIBILITY.
- PRIOR TO INITIATING THE 90-DAY MAINTENANCE PERIOD, COMPLETE ANY INITIAL PUNCH-LIST ITEMS. THEN OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE OF SUBSTANTIAL COMPLETION. DETERMINE WITH THE OWNER'S REPRESENTATIVE THE START DATE FOR THE 90-DAY MAINTENANCE PERIOD. CONTRACTOR TO MAINTAIN LANDSCAPE WHICH MAY INCLUDE WATERING, WEEDING, PRUNING, AND REPLACEMENT OF ANY MATERIAL THAT HAS DIED OR IS SHOWING EVIDENCE OF STRESS. SUBMIT WRITTEN REQUEST FOR FINAL PUNCH-LIST ONE WEEK PRIOR TO END OF MAINTENANCE PERIOD.
- ALL GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT SHALL APPLY.

LANDSCAPE SHEET INDEX

SHEET	SHEET TITLE
L1.0	LANDSCAPE COVER
L1.1	LANDSCAPE PLAN
L1.2	LANDSCAPE PLAN
L1.3	LANDSCAPE PLAN
L1.4	LANDSCAPE DETAILS
L2.1	IRRIGATION PLANS
L2.2	IRRIGATION PLANS
L2.3	IRRIGATION PLANS
L2.4	IRRIGATION DETAILS

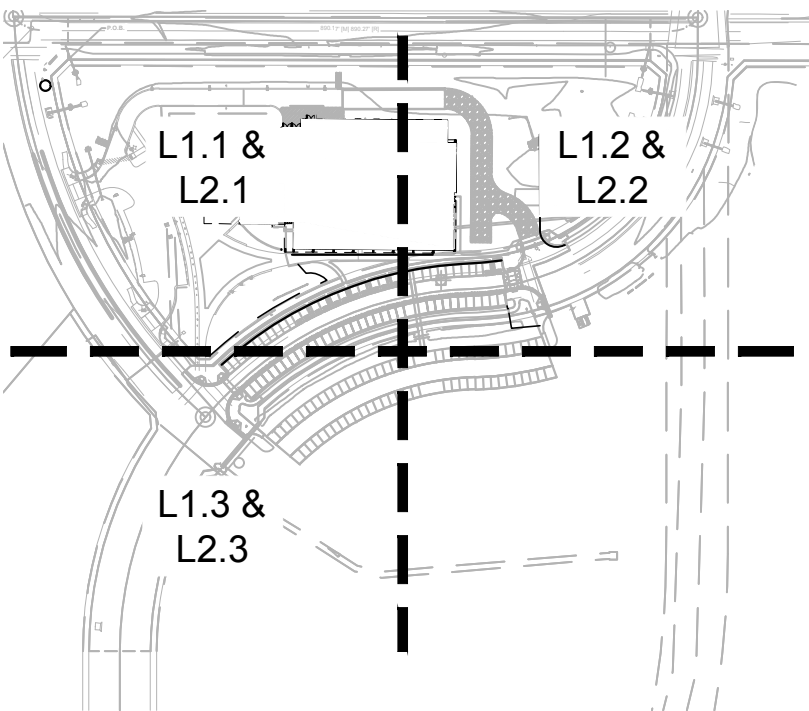
GENERAL IRRIGATION NOTES

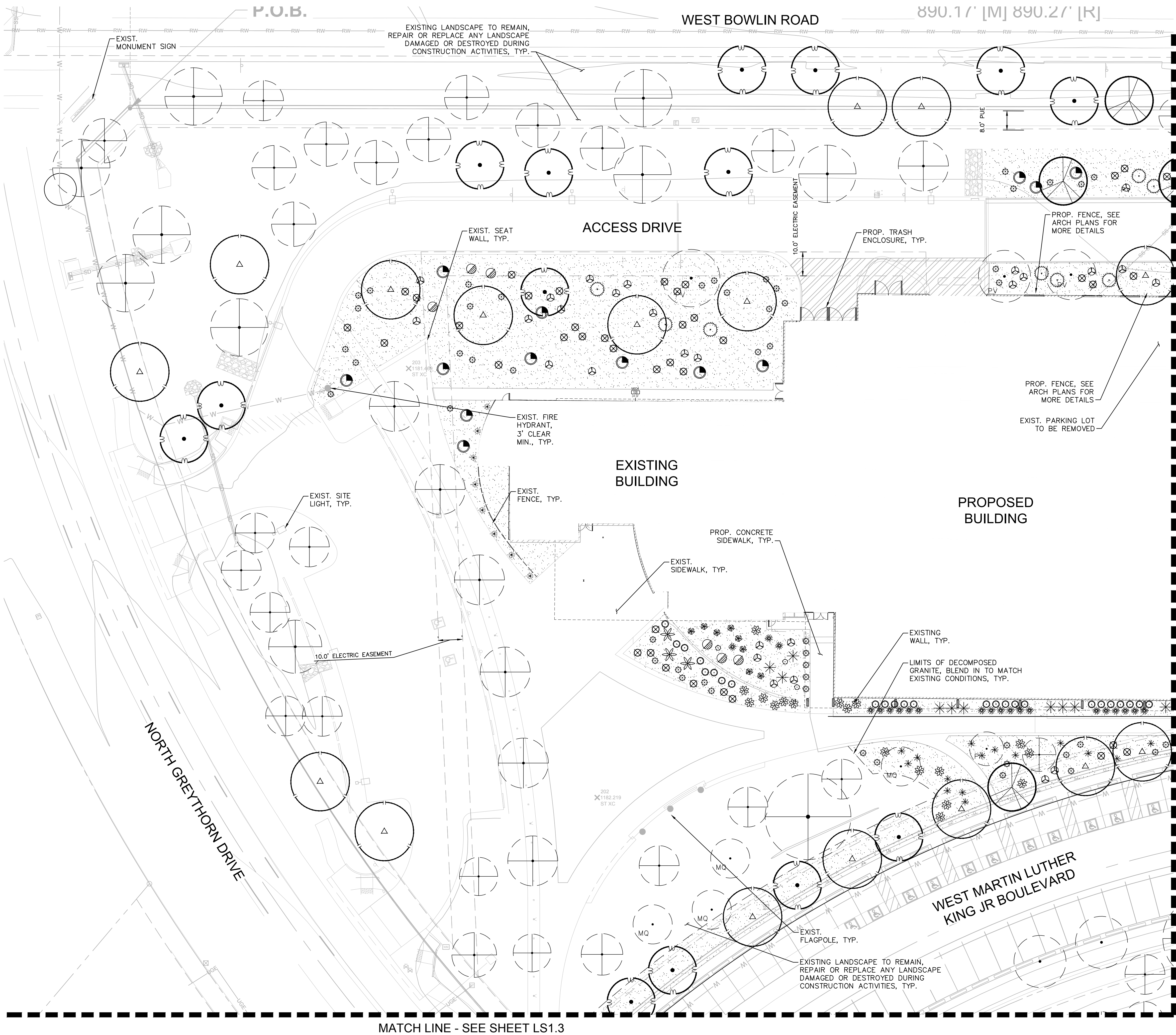
- CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
- SYSTEM DESIGN REQUIRES A STATIC PRESSURE OF 60 TO 75 PSI. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO ORDERING MATERIAL OR STARTING IRRIGATION INSTALLATION AND NOTIFY CONSULTANT AND OWNER'S REPRESENTATIVE OF ANY DIFFERENCE FROM PRESSURE INDICATED. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT AND OWNER'S REPRESENTATIVE, HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS.
- ALL PIPING AND WIRING PLACED UNDER PAVED AREAS SHALL BE PER PLAN DETAILS. SLEEVE INSTALLATIONS SHALL BE COMPLETED PRIOR TO THE START OF ANY PAVING OPERATIONS (SEE ENGINEERING PAVING PLANS). WHERE NECESSARY, VERIFY EXISTING SLEEVE LOCATIONS AND DETERMINE CONDITION AND COMPATIBILITY WITH DESIGN PRIOR TO THE START OF ANY OTHER WORK. SLEEVING BENEATH EXISTING PAVEMENTS SHALL BE INSTALLED BY BORING UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
- THE IRRIGATION SYSTEM LAYOUT SHOWN ON THE DRAWINGS IS GENERALLY SCHEMATIC. ALL VALVES, COMPONENTS, PIPING, FITTINGS AND EQUIPMENT SHALL BE LOCATED WITHIN R.O.W. LANDSCAPE AREAS UNLESS SLEEVED OR OTHERWISE SHOWN OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW IRRIGATION SYSTEM COMPONENTS AND POINT OF CONNECTION WHICH WILL PROVIDE FULL AUTOMATIC OPERATION AND 100% COMPLETE COVERAGE TO ALL PLANTS AS INDICATED ON THE PLANS WITHOUT RUN-OFF OR OVERTHROW ONTO ANY PAVED SURFACES.
- REFER TO DETAILS FOR INSTALLATION PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE A COMPLETE AND FULLY OPERATIONAL IRRIGATION SYSTEM INCLUDING ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.
- ANY SUBSTITUTIONS OR OMISSIONS OF IRRIGATION COMPONENTS AND EQUIPMENT MUST BE APPROVED IN WRITING BY OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.

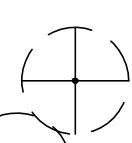

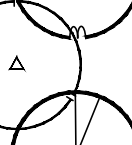
















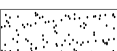
CITY OF MARICOPA LANDSCAPE NOTES

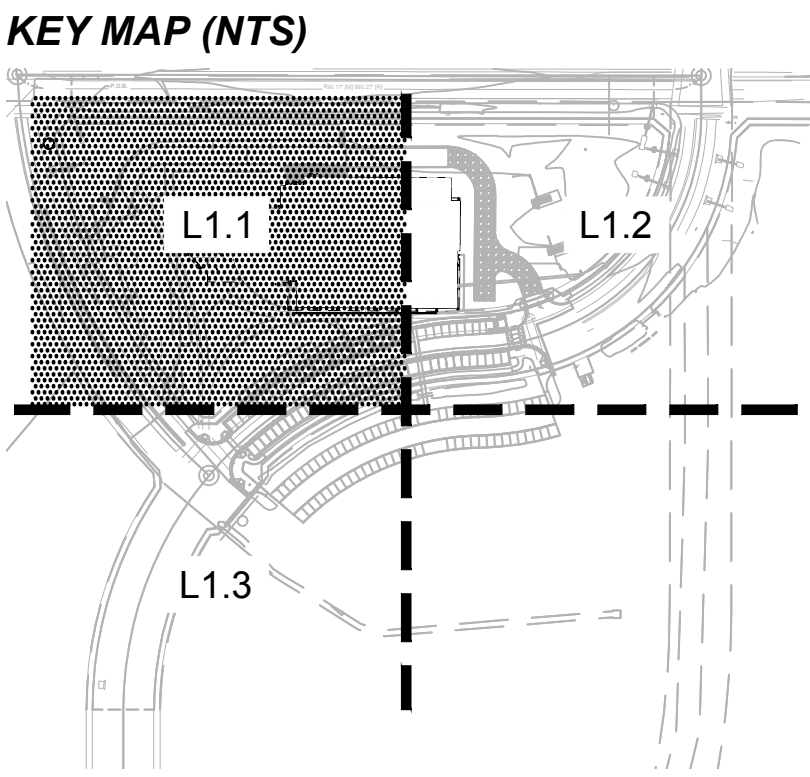
- PROPERTY OWNER SHALL PROPERLY MAINTAIN ALL LANDSCAPE MATERIAL AND LANDSCAPED AREAS, INCLUDING THAT WITHIN THE PUBLIC RIGHT OF WAY ADJACENT TO THE DEVELOPMENT, IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS.
- REPLACEMENT OF DEAD TREES ALONG THE ARTERIAL ROADS SHALL BE BY THE INDIVIDUAL PROPERTY OWNER OR PROPERTY MANAGEMENT ASSOCIATION AND SHALL BE COMPLETED WITHIN THREE (3) MONTHS FROM THE DATE THAT THE ASSOCIATION OR PROPERTY OWNER IS NOTIFIED BY THE CITY.

KEY MAP (NTS)





PLANTING LEGEND		
TREES		
	<u>BOTANICAL NAME / COMMON NAME</u>	<u>SIZE</u>
	Existing Tree (Protect in Place)	Varies
	Remain in Place	
	Existing Tree (Salvage)	Varies
	Box and Relocate, if Possible	
	Acacia aneura Mulga	1" Cal. Min., 7" Ht. Min., 3' Sp. Min. 24" Box
	Chilopsis linearis Desert Willow	1" Cal. Min., 4" Ht. Min., 6' Sp. Min. 24" Box
	Pistacia x 'Red Push' Red Push Pistache	1" Cal. Min., 3½" Ht. Min., 8' Sp. Min. 24" Box
SHRUBS		
	<u>BOTANICAL NAME / COMMON NAME</u>	<u>SIZE</u>
	Encelia farinosa Brittlebush	5 Gal.
	Eremophila hygrophana Blue Bells	5 Gal.
	Justicia spicigera Chuparosa	5 Gal.
	Larrea tridentata Creosote	5 Gal.
	Simmondsia chinensis Jojoba	5 Gal.
ACCENTS		
	<u>BOTANICAL NAME / COMMON NAME</u>	<u>SIZE</u>
	Agave americana Century Plant	5 Gal.
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MATERIALS		
	<u>DESCRIPTION</u>	
	Decomposed Granite 3" Minus, Color: Mountain Vista Brown, 3" Depth Min.	



CONSULTANTS

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CITY OF MARICOPA

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studio8id.org

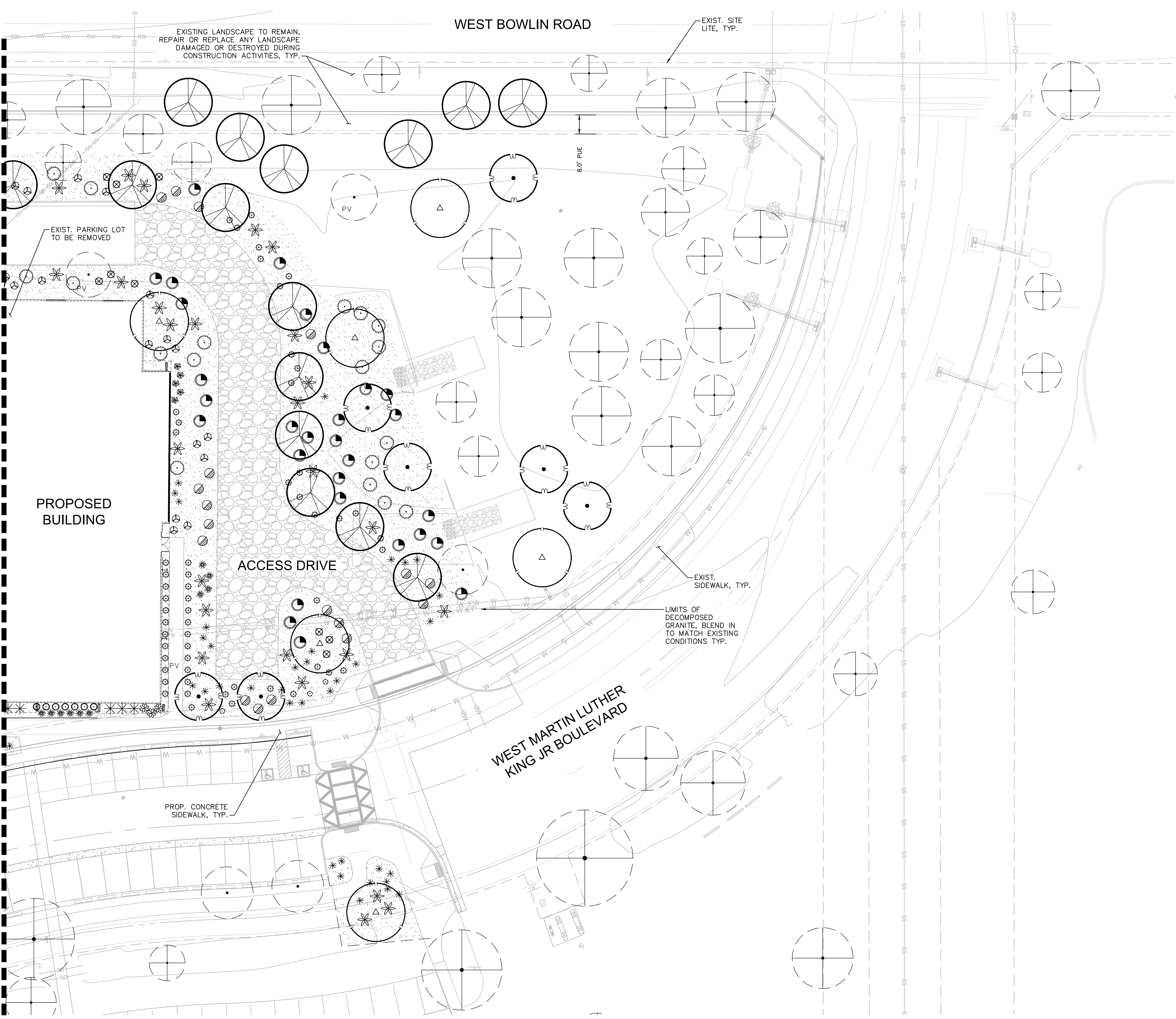
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REVISIONS

LANDSCAPE PLAN

L1.1
CONSTRUCTION DOCUMENTS

MATCH LINE - SEE SHEET LS1.1



PLANTING LEGEND

TREES		
BOTANICAL NAME / COMMON NAME	SIZE	
Existing Tree (Protect in Place)	Varies	
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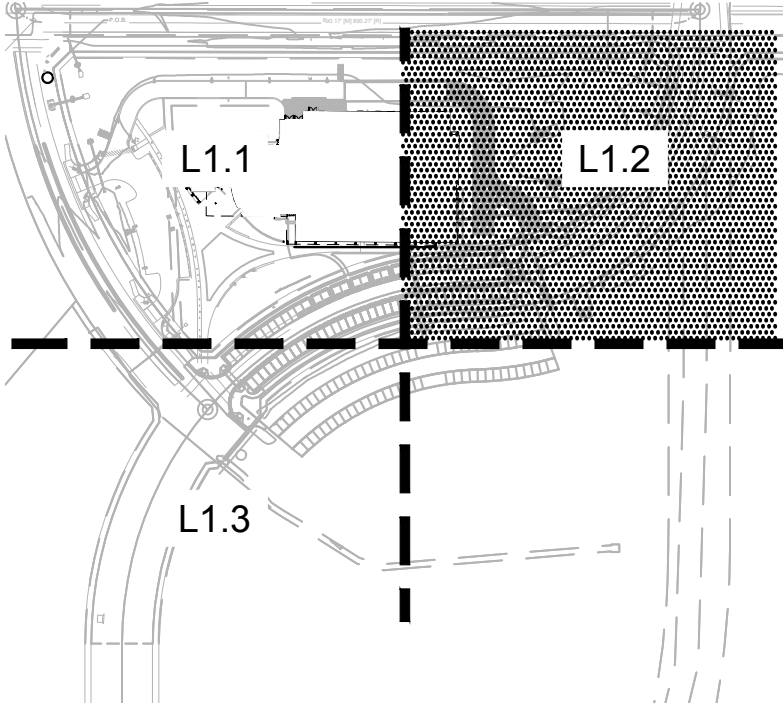
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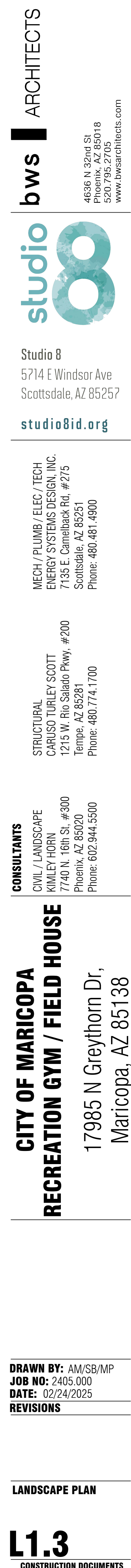
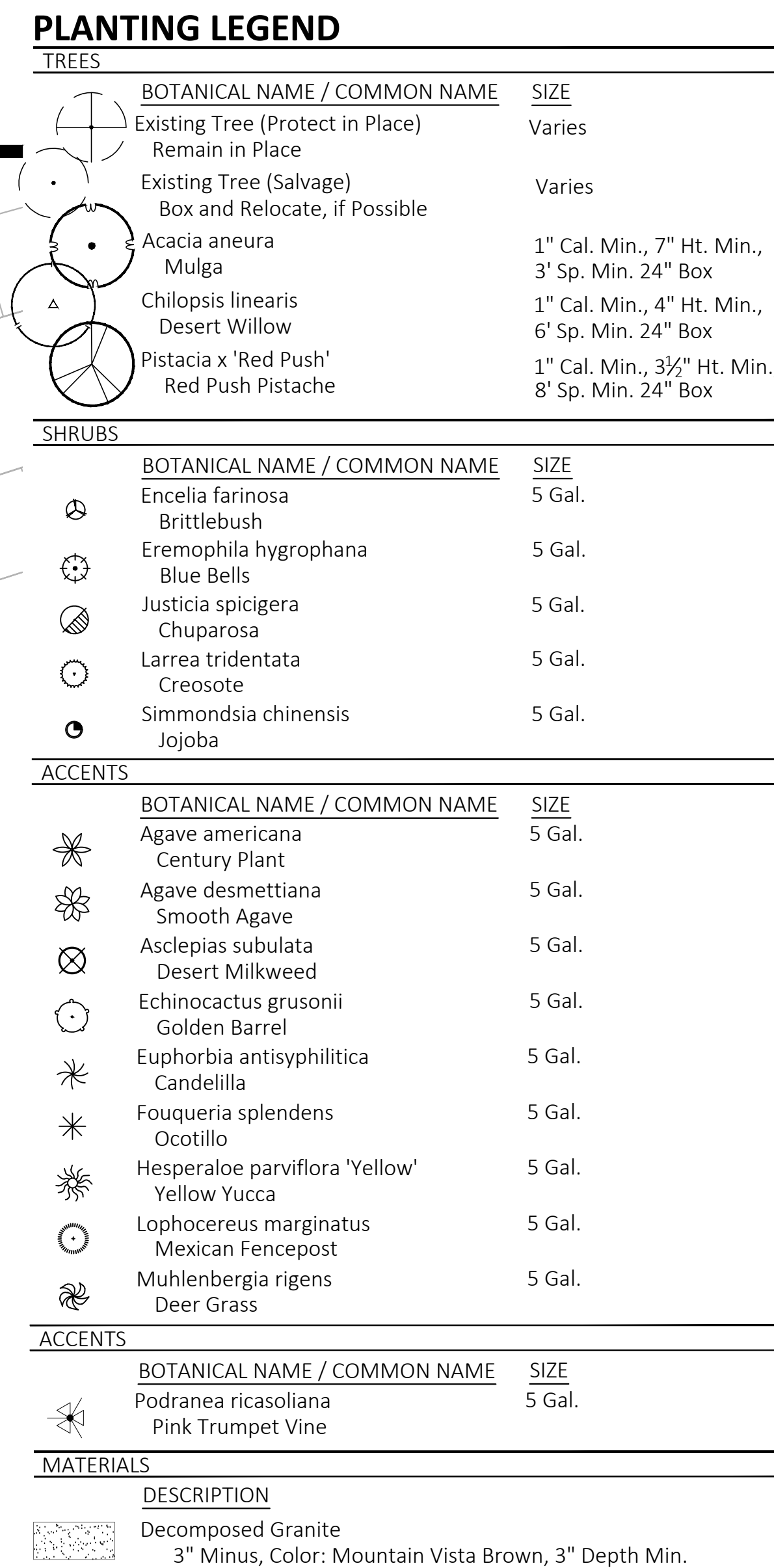
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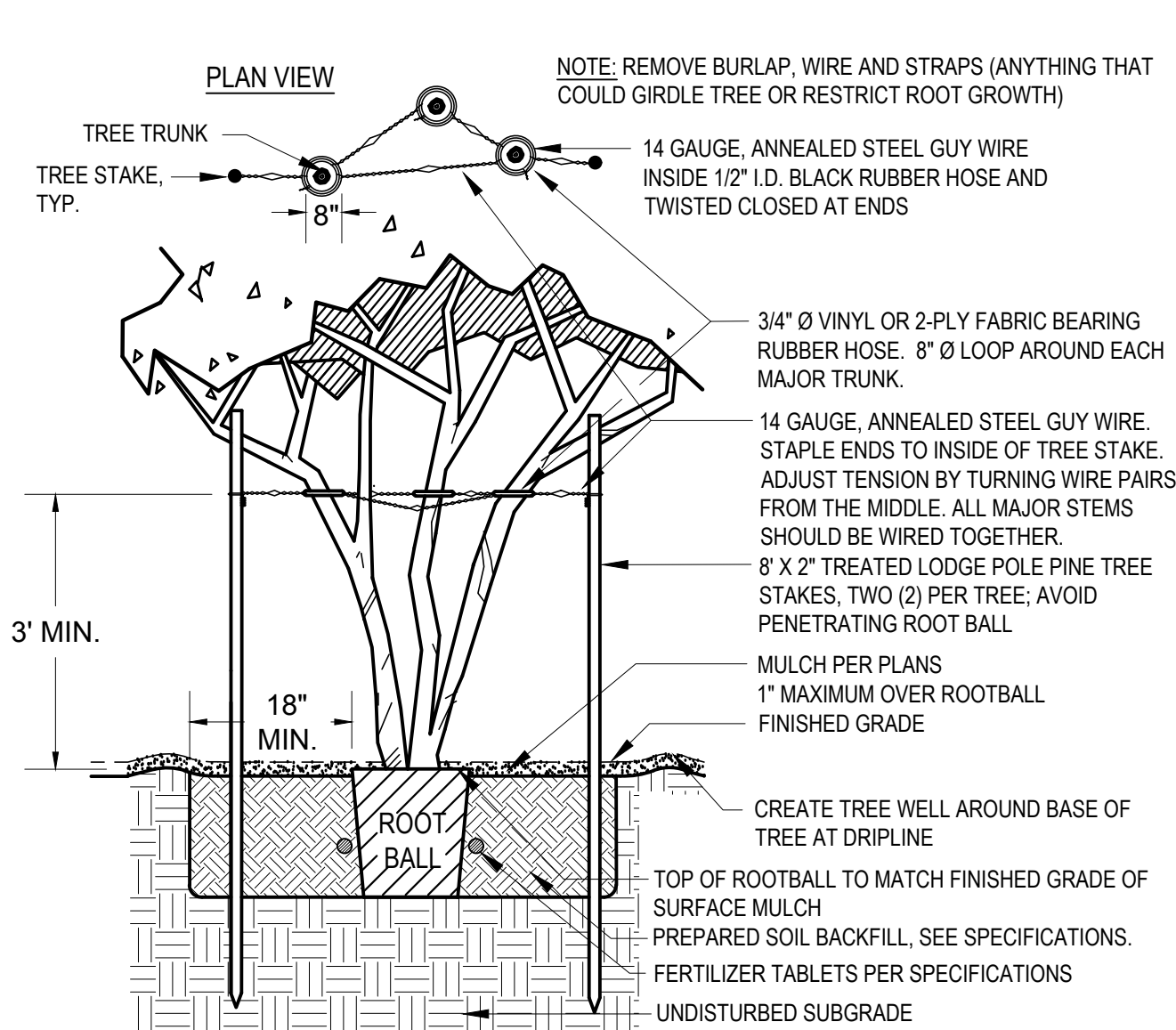
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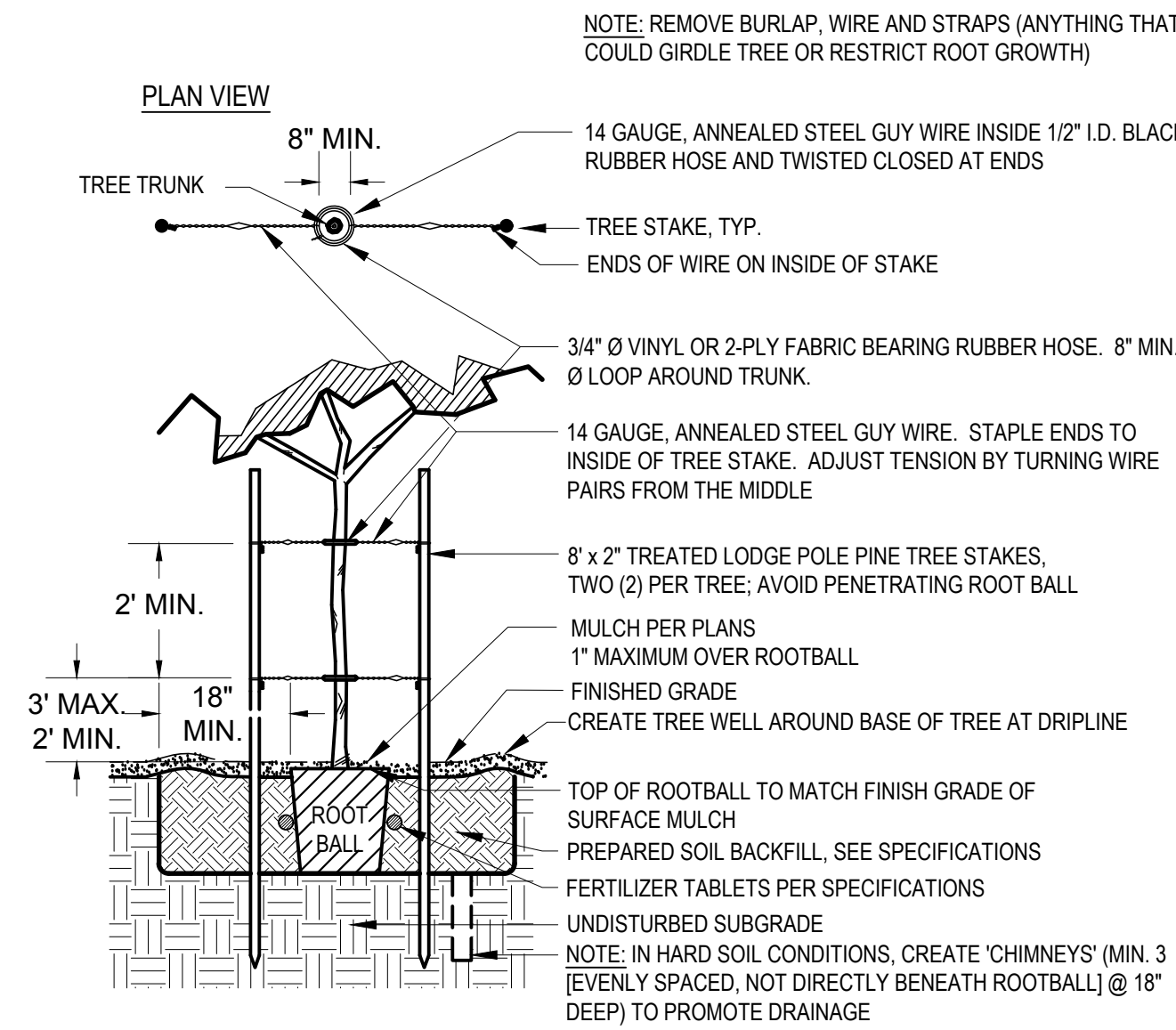
KEY MAP (NTS)



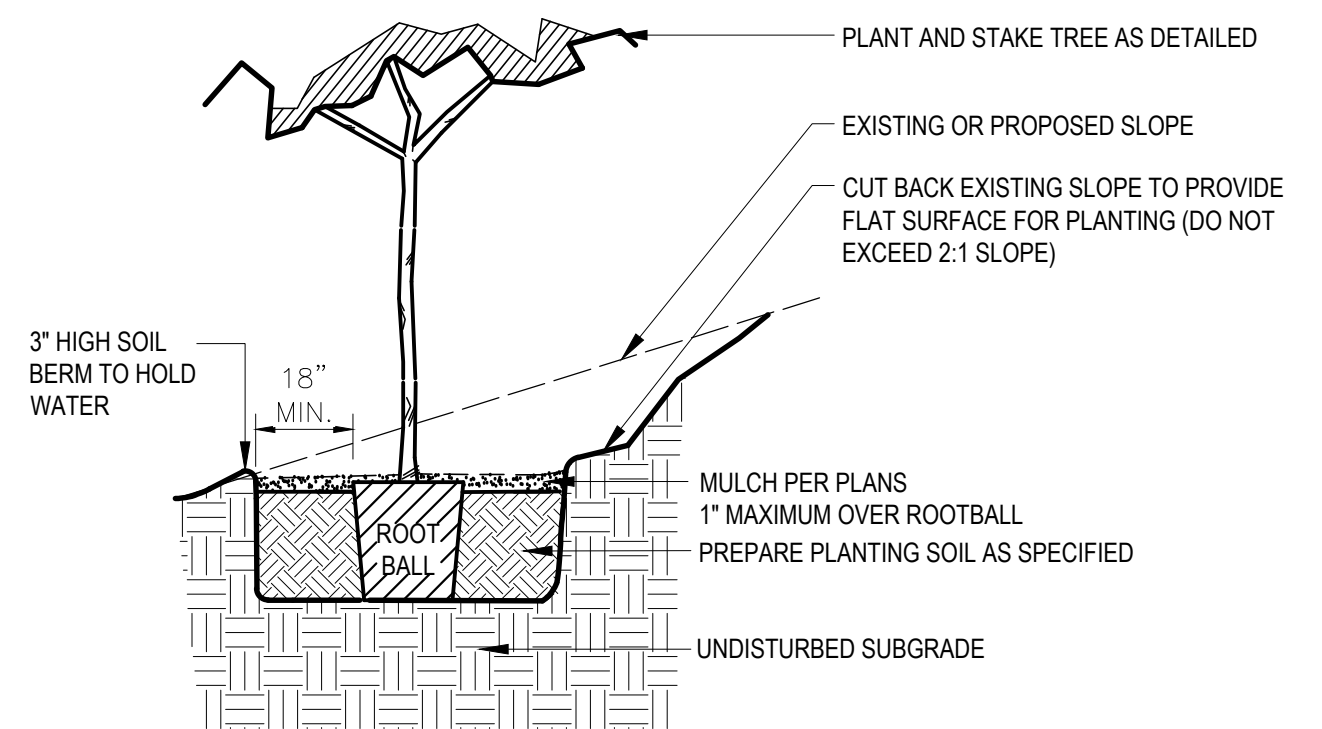




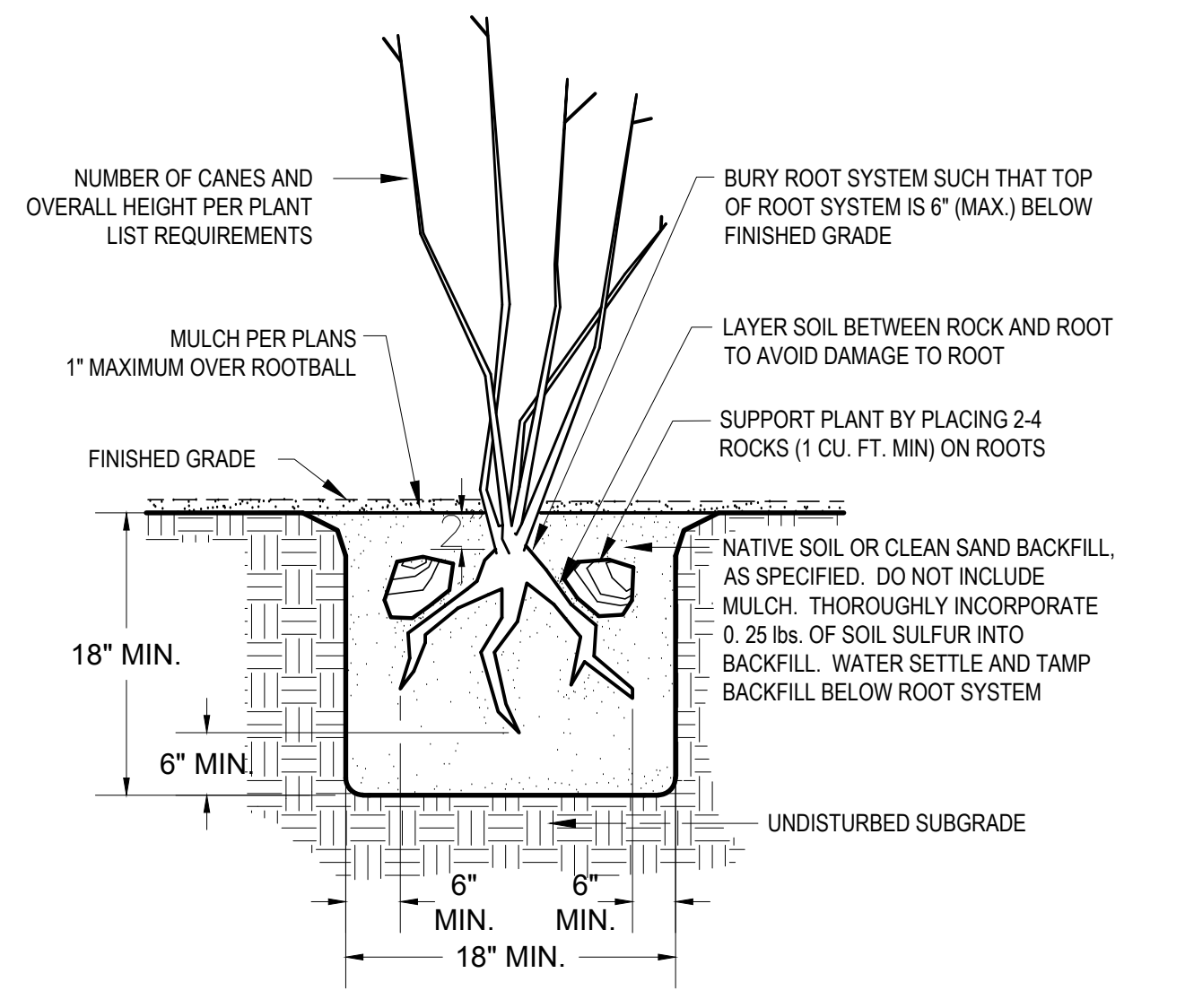
1 TREE STAKING - MULTI-TRUNK
SCALE: N.T.S.



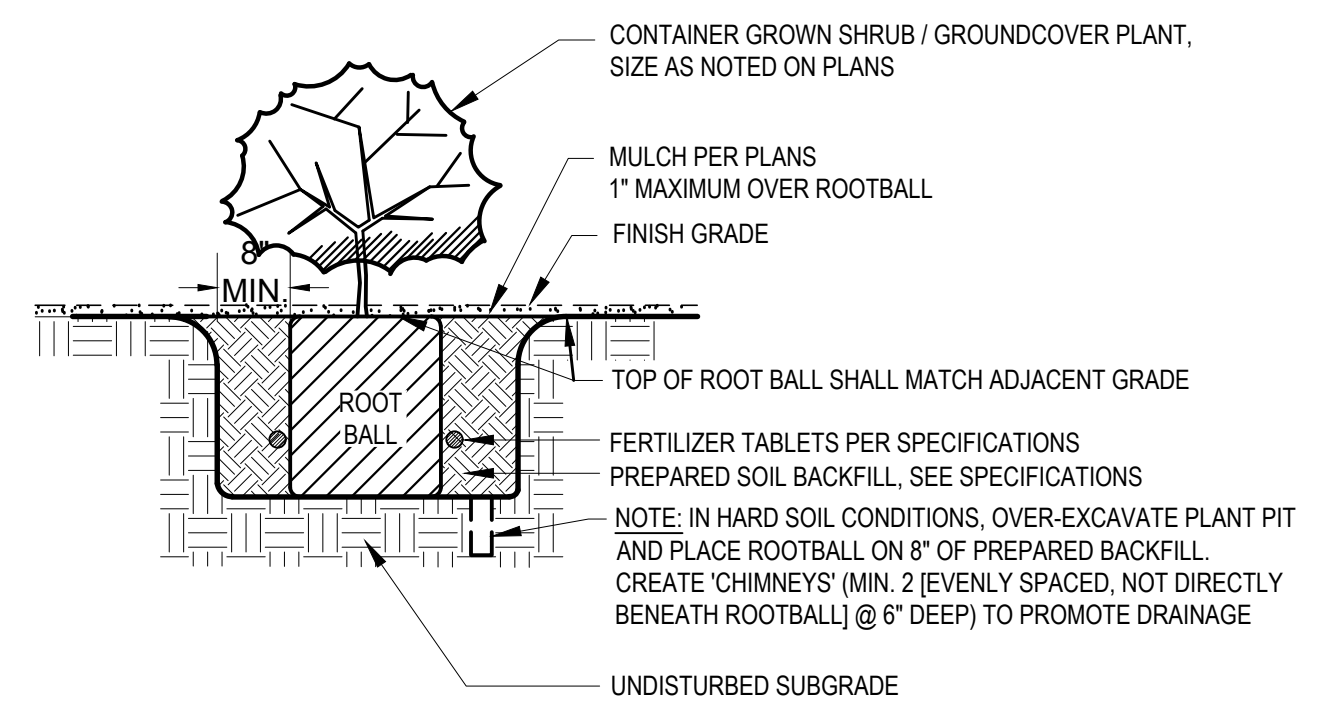
2 TREE PLANTING AND STAKING
SCALE: N.T.S.



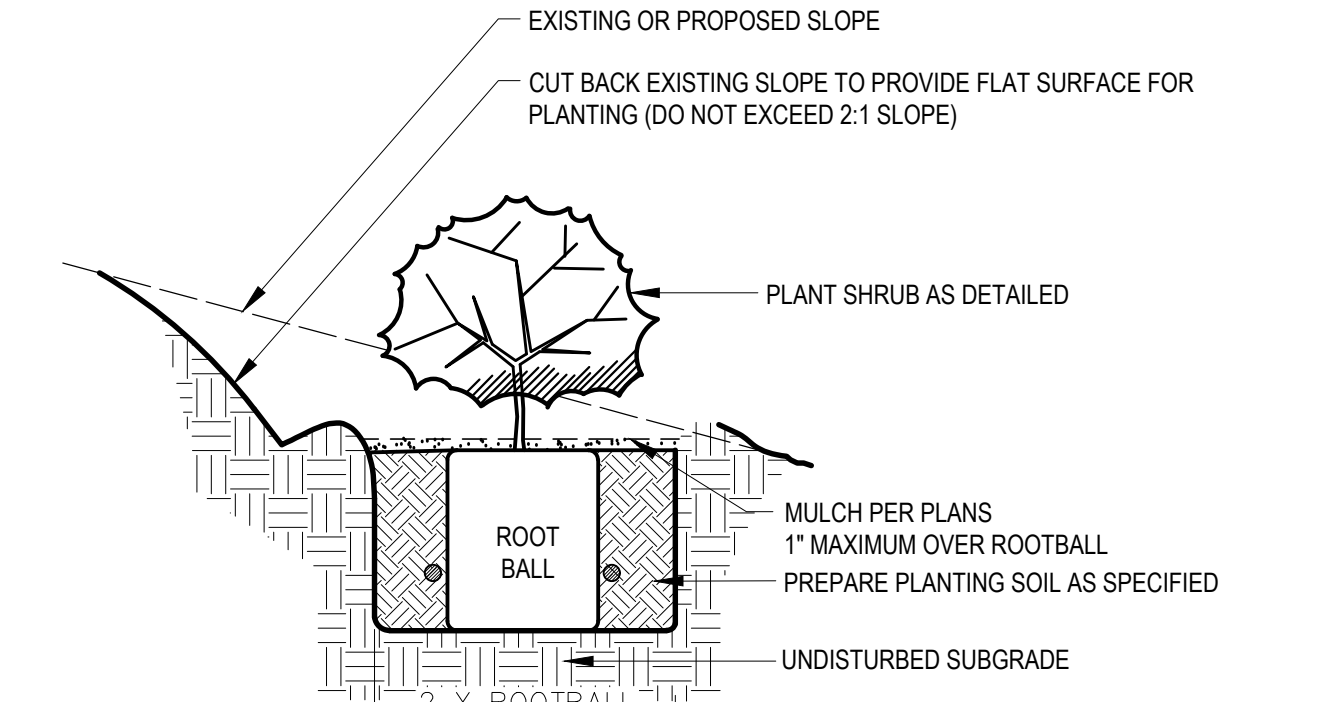
3 TREE PLANTING ON SLOPE
SCALE: N.T.S.



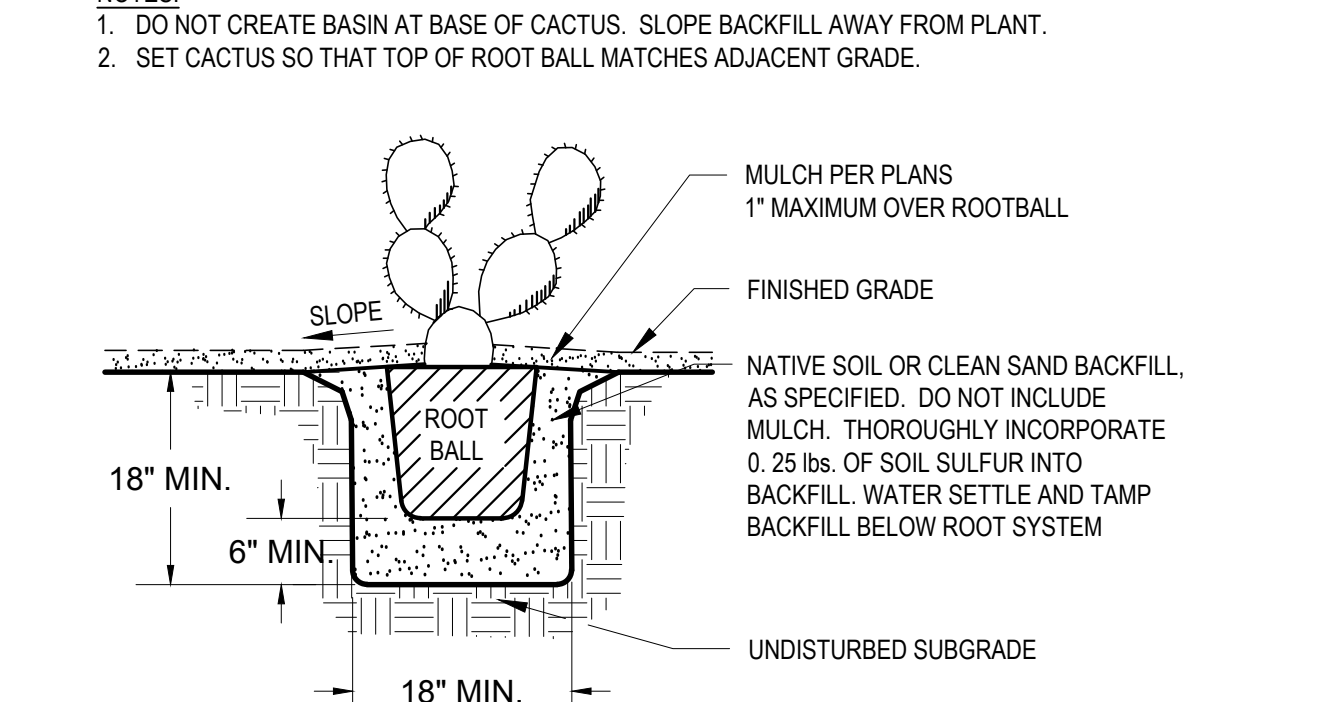
10 OCOTILLO PLANTING
SCALE: N.T.S.



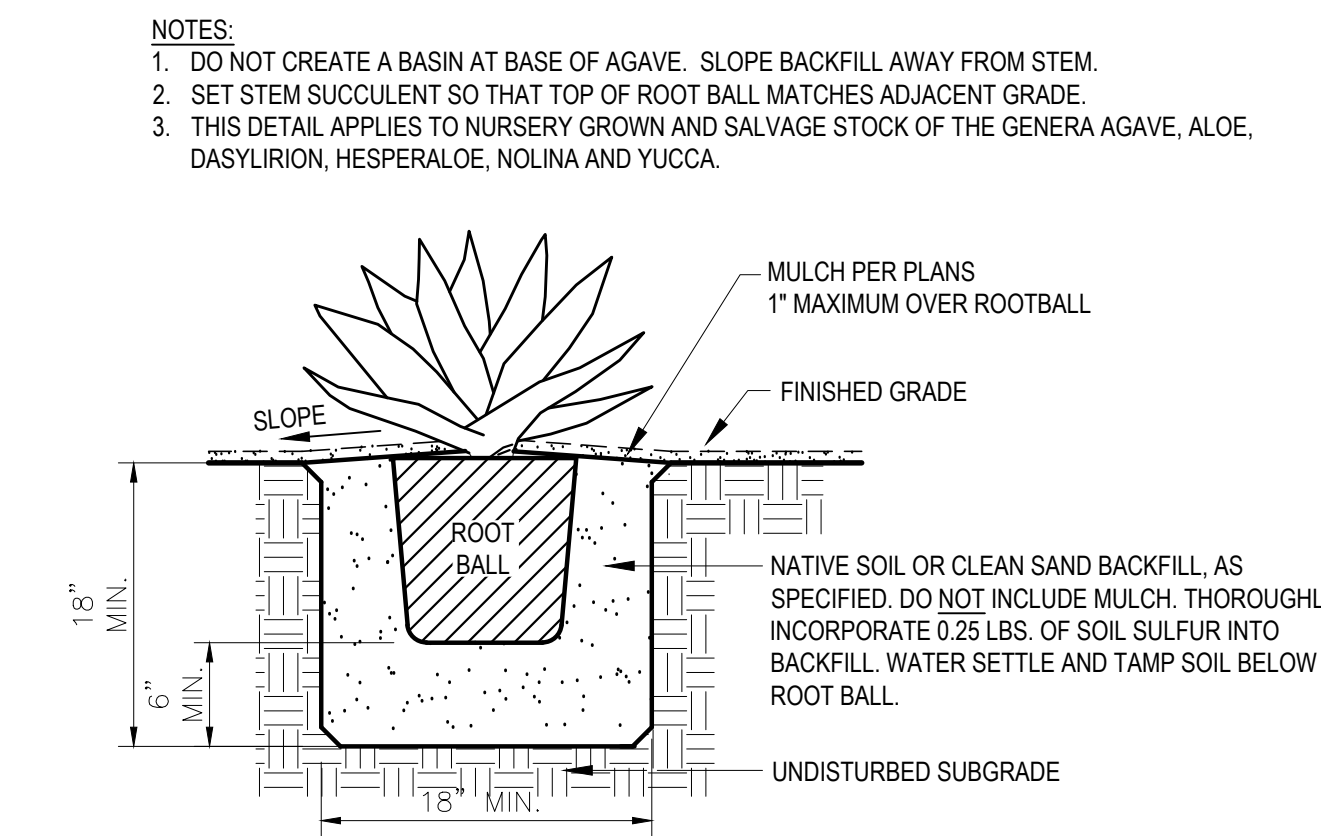
4 SHRUB / GROUND COVER PLANTING
SCALE: N.T.S.



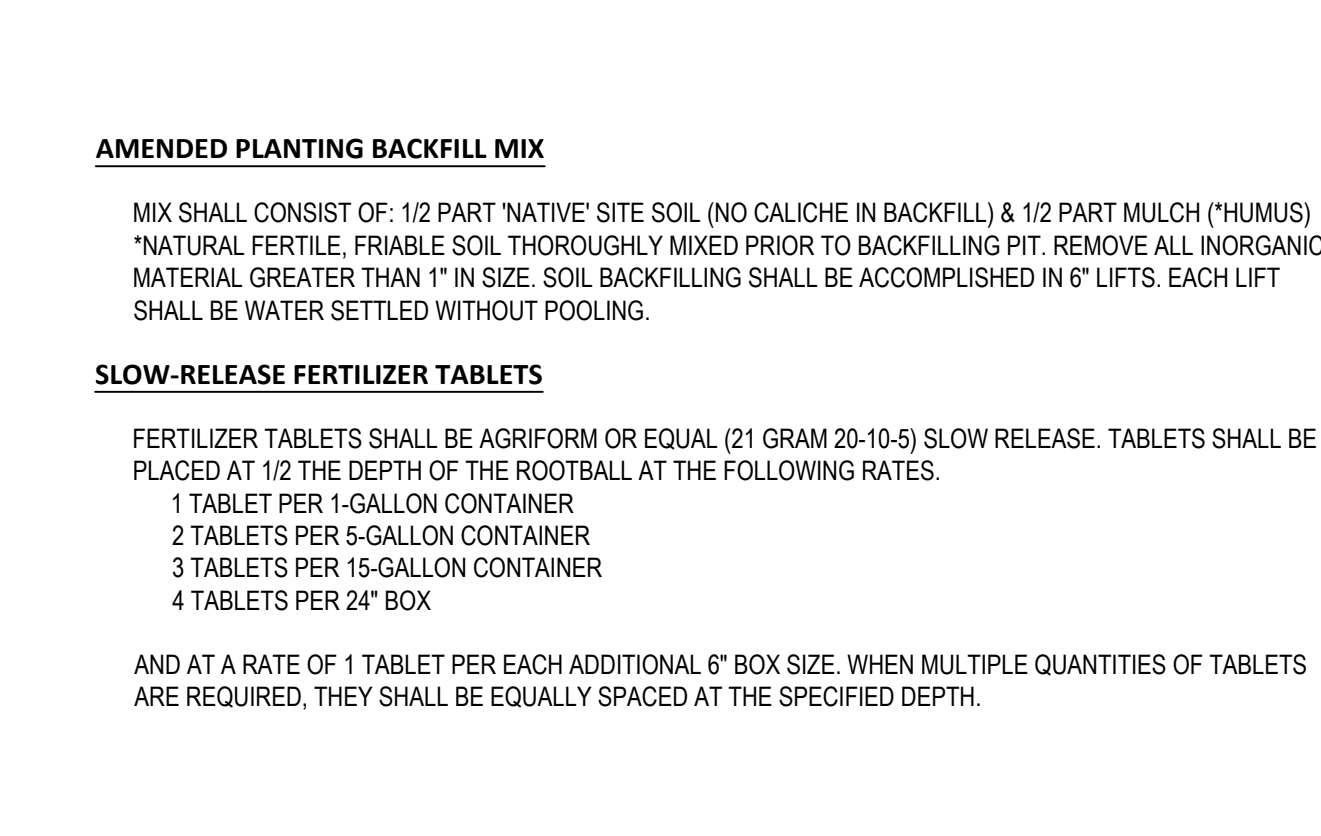
5 SHRUB / GROUND COVER PLANTING ON SLOPE
SCALE: N.T.S.



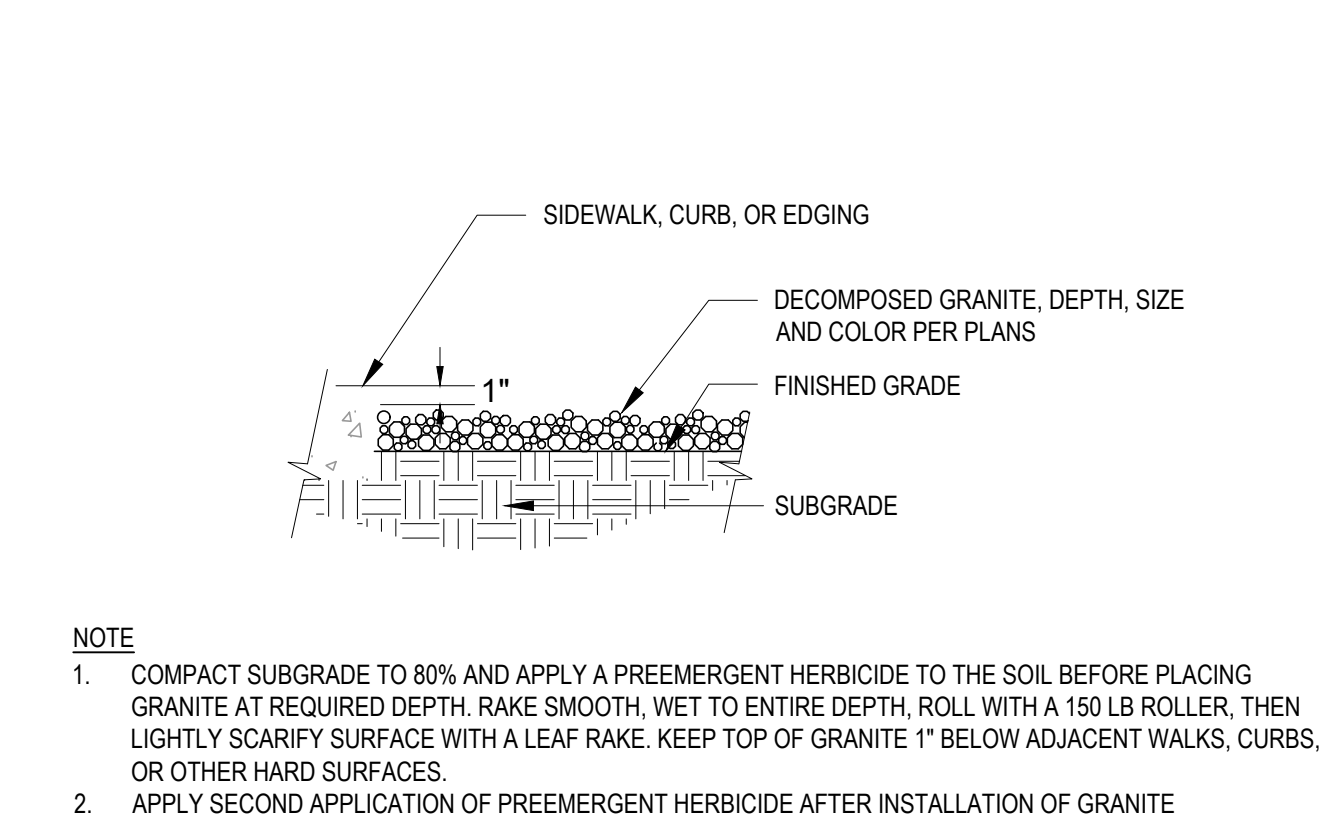
6 PRICKLY PEAR AND CHOLLA CACTUS PLANTING
SCALE: N.T.S.



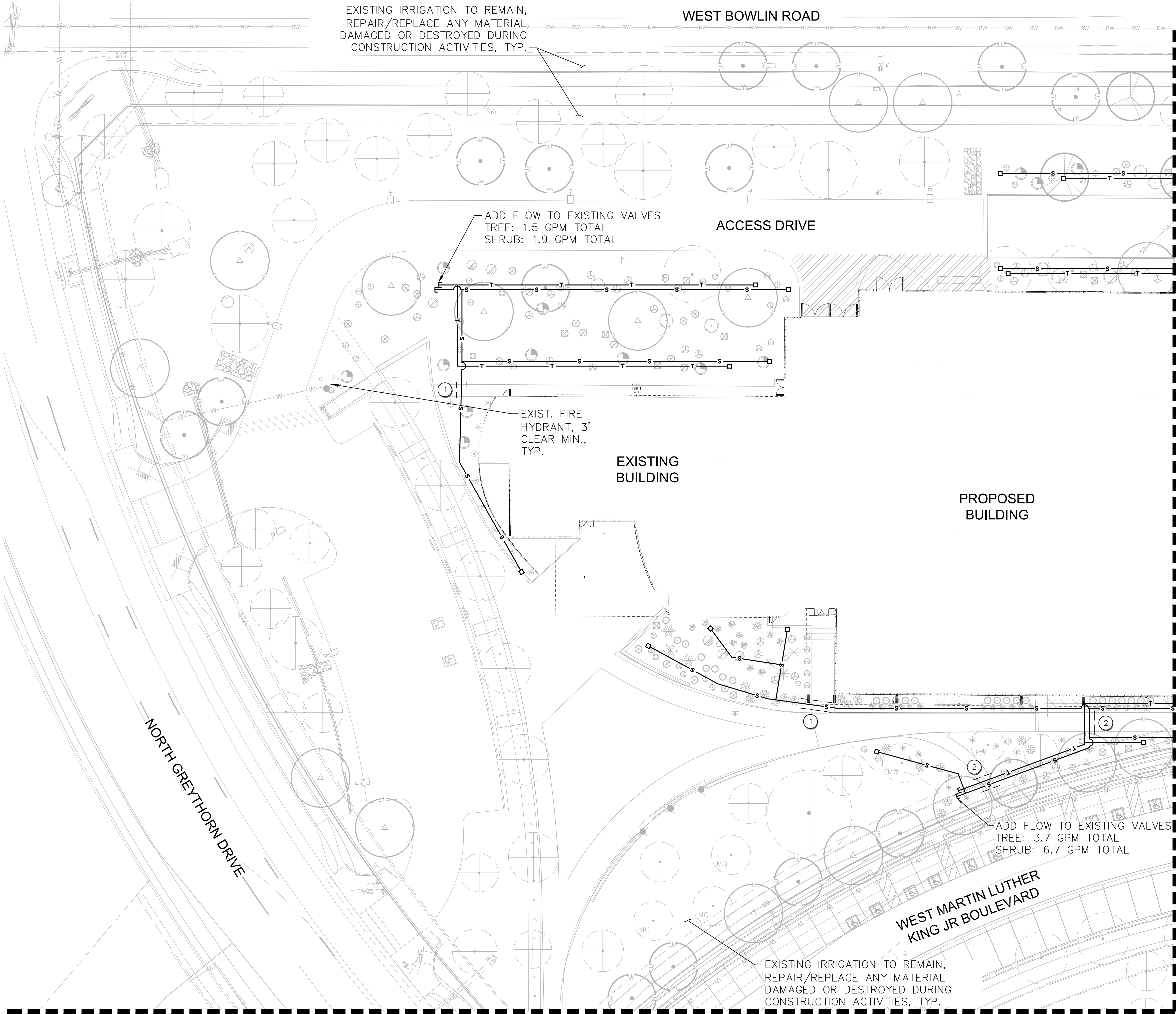
7 STEM SUCCULENT PLANTING
SCALE: N.T.S.











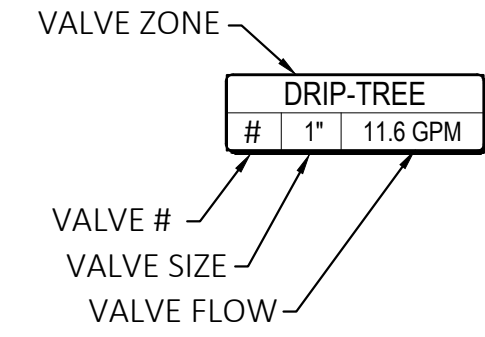
5 BACKFILL AND FERTILIZER NOTES



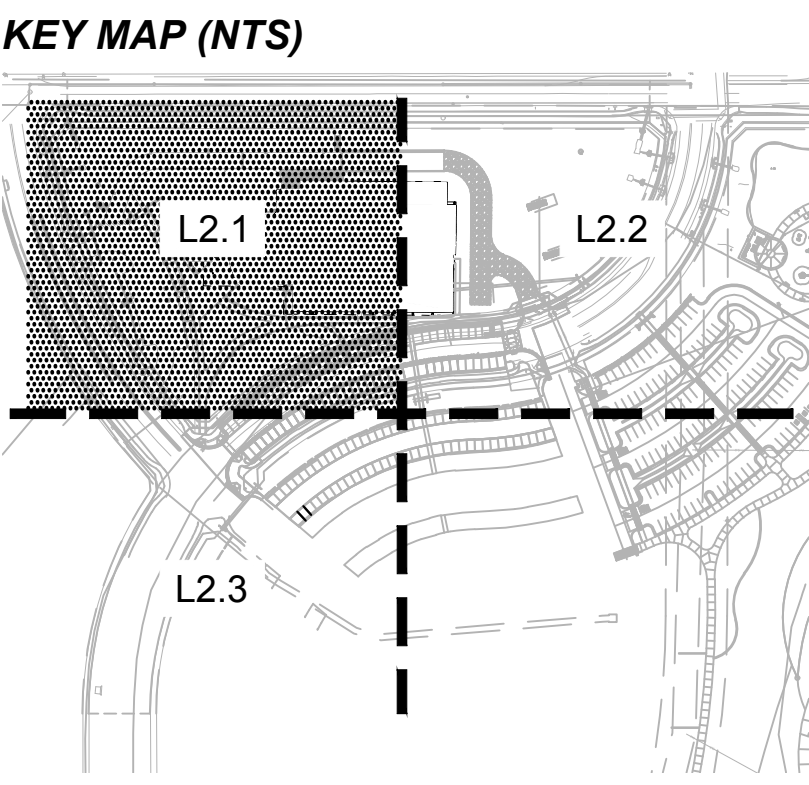
3 DECOMPOSED GRANITE INSTALLATION
SCALE: N.T.S.



IRRIGATION LEGEND													
EQUIPMENT													
SYMBOL	MANUFACTURER / DESCRIPTION												
	Existing 1" Irrigation Meter and Backflow Preventer, See Utility Plans for Additional Information												
	Existing Controller												
	Existing Master Valve												
	Existing Flow Sensor												
	Flush End Cap												
<i>not shown</i>	Rain Bird XBT-20-6 (1 per tree, 6 ports open) Rain Bird XBT-10-6 (1 per shrub, 5 ports open max)												
SLEEVE SCHEDULE													
SYMBOL	DESCRIPTION												
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity												
PIPE SCHEDULE													
SYMBOL	SIZE / DESCRIPTION												
	SCH 40 PVC Tree Lateral												
	SCH 40 PVC Shrub Lateral												
	<table><tr><th>Flow (GPM)</th><th>Pipe Size</th><th>Pipe Class</th></tr><tr><td>0-5.0</td><td>1/2"</td><td>SCH 40 PVC</td></tr><tr><td>5.1-10</td><td>3/4"</td><td>SCH 40 PVC</td></tr><tr><td>10.1-15</td><td>1"</td><td>SCH 40 PVC</td></tr></table>	Flow (GPM)	Pipe Size	Pipe Class	0-5.0	1/2"	SCH 40 PVC	5.1-10	3/4"	SCH 40 PVC	10.1-15	1"	SCH 40 PVC
Flow (GPM)	Pipe Size	Pipe Class											
0-5.0	1/2"	SCH 40 PVC											
5.1-10	3/4"	SCH 40 PVC											
10.1-15	1"	SCH 40 PVC											
VALVE ZONE ID													



- NOTES:
- IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY. ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS, TYP.
 - MULTIPLE VALVE OF THE SAME TYPE MAY BE RUN SIMULTANEOUSLY. HOWEVER, SYSTEM SHALL NOT EXCEED 12.0 GPM AT ANY GIVEN TIME.



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CITY OF MARICOPA
RECREATION GYM / FIELD HOUSE
17985 N Greythorn Dr.,
Maricopa, AZ 85138

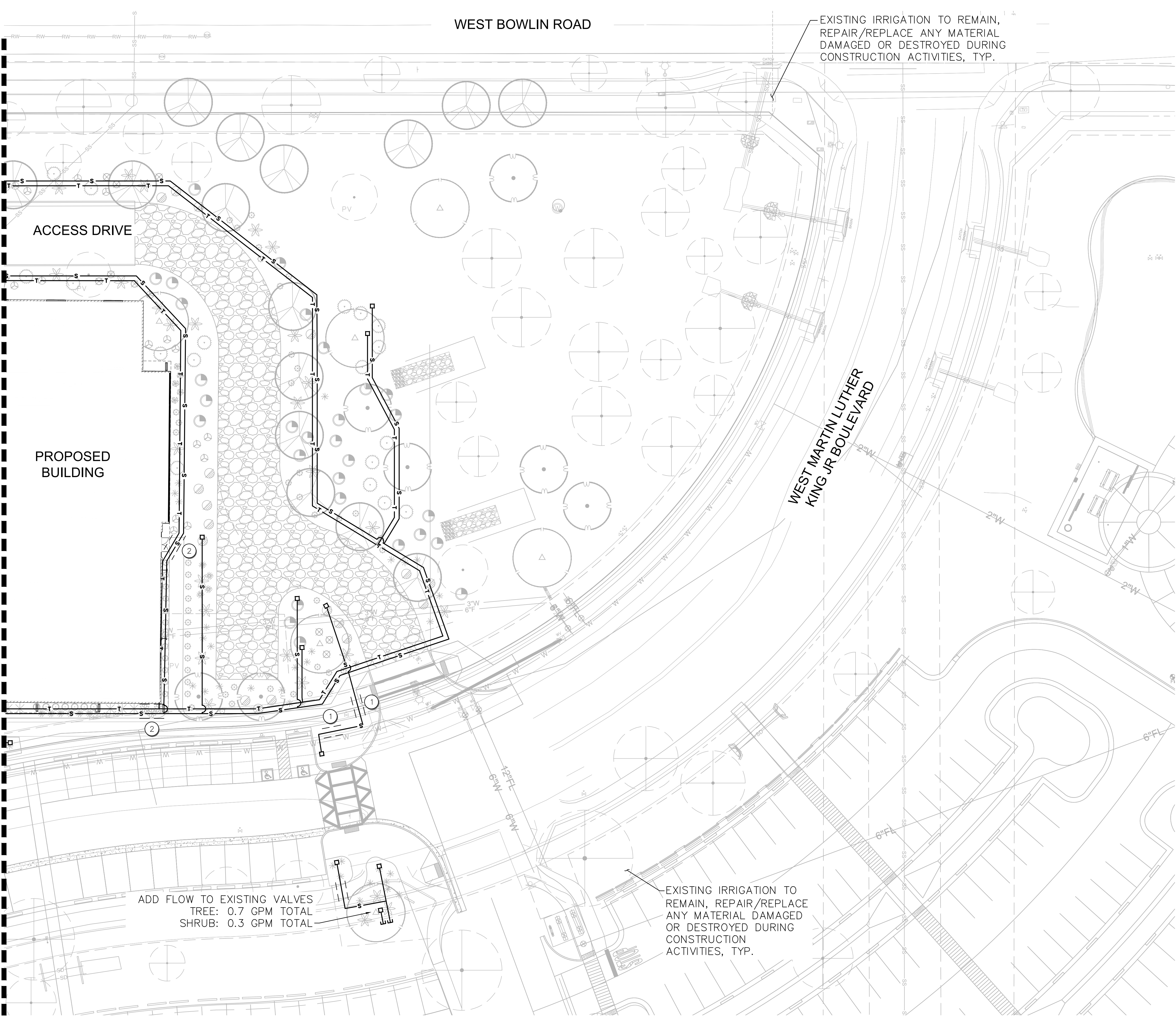
DRAWN BY: AM/SB/MP
JOB NO: 2405.000
DATE: 02/24/2025

REVISIONS

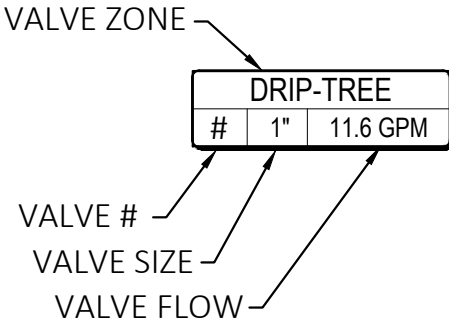
IRRIGATION PLAN

L2.1
CONSTRUCTION DOCUMENTS

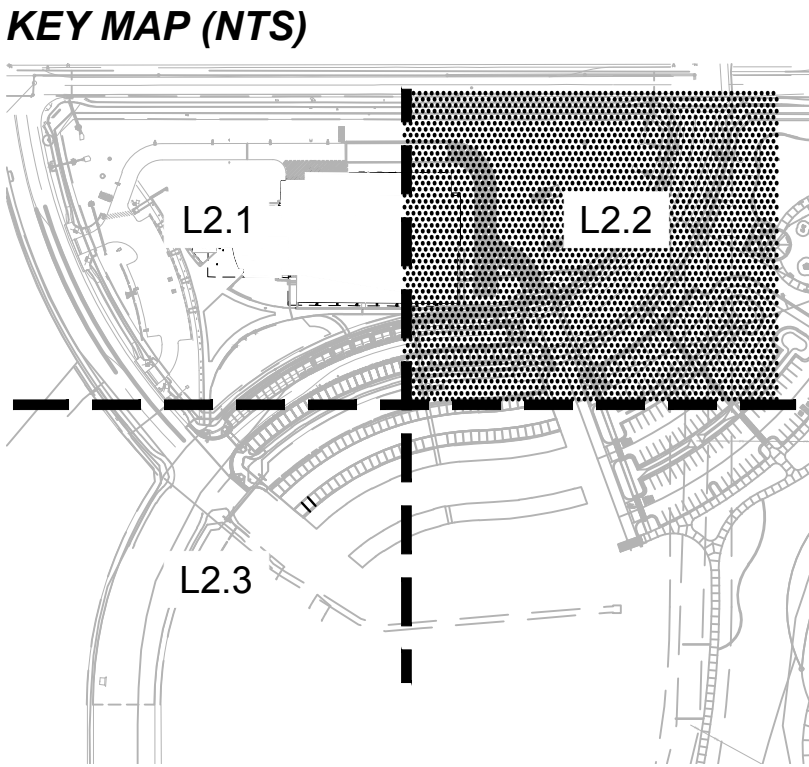
MATCH LINE - SEE SHEET LS1.1



IRRIGATION LEGEND	
EQUIPMENT	
SYMBOL	MANUFACTURER / DESCRIPTION
	Existing 1" Irrigation Meter and Backflow Preventer, See Utility Plans for Additional Information
	Existing Controller
	Existing Master Valve
	Existing Flow Sensor
	Flush End Cap
not shown	Rain Bird XBT-20-6 (1 per tree, 6 ports open)
	Rain Bird XBT-10-6 (1 per shrub, 5 ports open max)
SLEEVE SCHEDULE	
SYMBOL	DESCRIPTION
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal
	"X" Indicates Quantity
PIPE SCHEDULE	
SYMBOL	SIZE / DESCRIPTION
	SCH 40 PVC Tree Lateral
	SCH 40 PVC Shrub Lateral
	Flow (GPM) Pipe Size Pipe Class
	0-5.0 1/2" SCH 40 PVC
	5.1-10 3/4" SCH 40 PVC
	10.1-15 1" SCH 40 PVC
VALVE ZONE ID	



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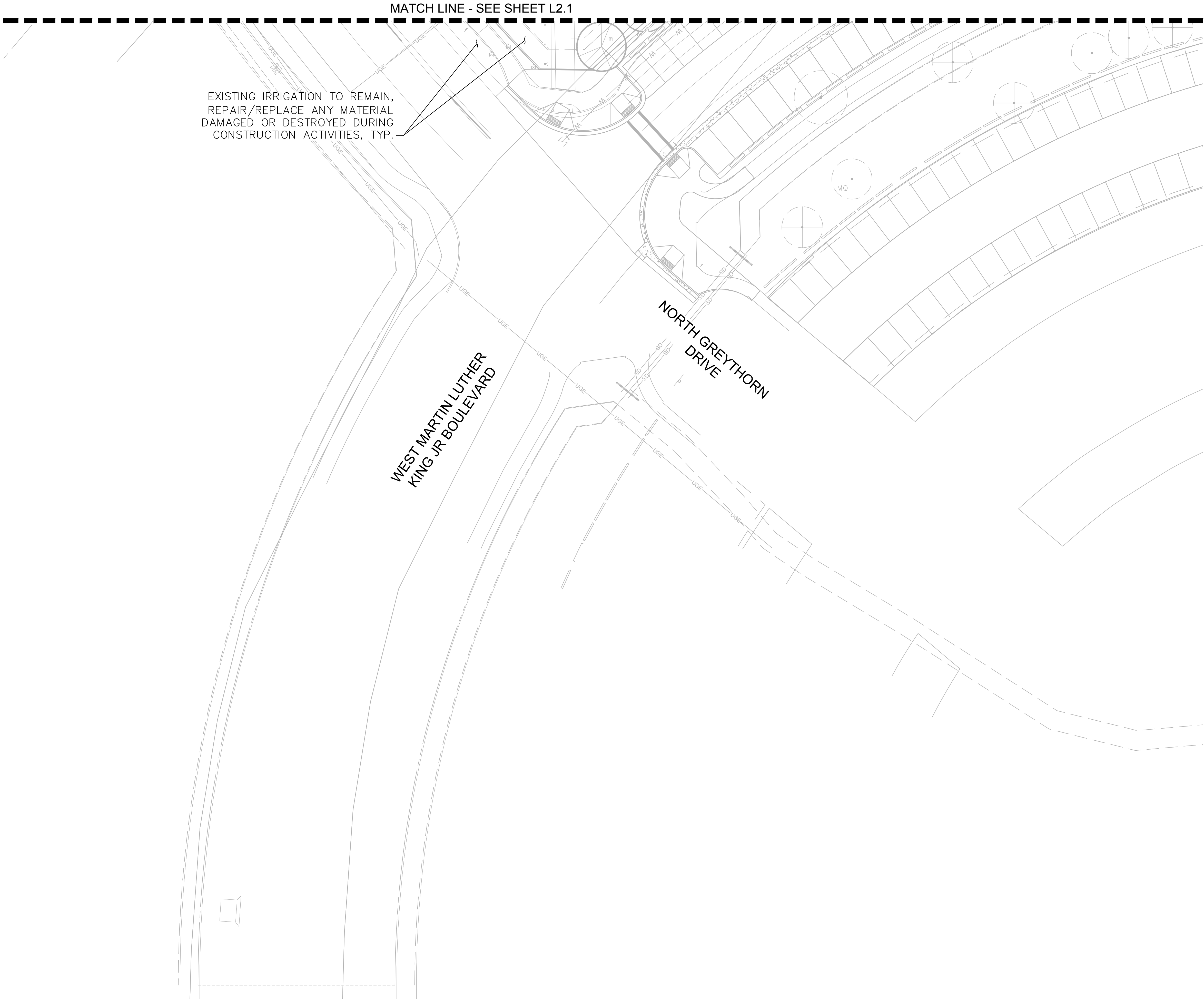
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

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JOB NO: 2405.000
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IRRIGATION PLAN

L2.2
CONSTRUCTION DOCUMENTS



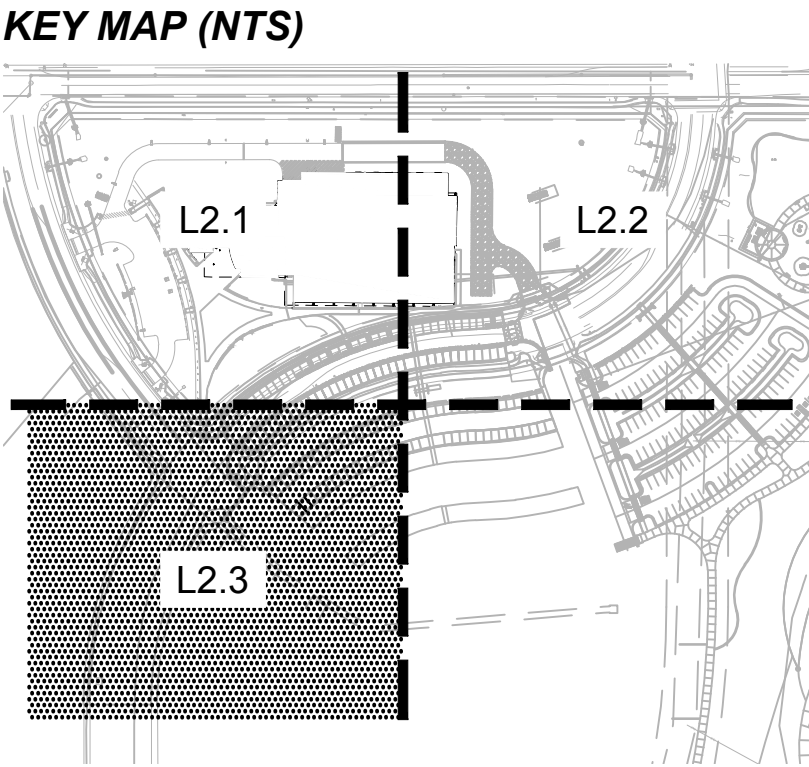
IRRIGATION LEGEND	
EQUIPMENT	
SYMBOL	MANUFACTURER / DESCRIPTION
	Existing 1" Irrigation Meter and Backflow Preventer, See Utility Plans for Additional Information
	Existing Controller
	Existing Master Valve
	Existing Flow Sensor
	Flush End Cap
<i>not shown</i>	Rain Bird XBT-20-6 (1 per tree, 6 ports open) Rain Bird XBT-10-6 (1 per shrub, 5 ports open max)

SLEEVE SCHEDULE	
SYMBOL	DESCRIPTION
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal
	"X" Indicates Quantity

PIPE SCHEDULE		
SYMBOL	SIZE / DESCRIPTION	
	SCH 40 PVC Tree Lateral	
	SCH 40 PVC Shrub Lateral	
Flow (GPM)	Pipe Size	Pipe Class
0-5.0	1/2"	SCH 40 PVC
5.1-10	3/4"	SCH 40 PVC
10.1-15	1"	SCH 40 PVC

VALVE ZONE ID	
VALVE ZONE	<div>DRIP-TREE</div> <div># 1" 11.6 GPM</div>
VALVE #	
VALVE SIZE	
VALVE FLOW	

- NOTES:
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IRRIGATION PLAN

L2.3
CONSTRUCTION DOCUMENTS

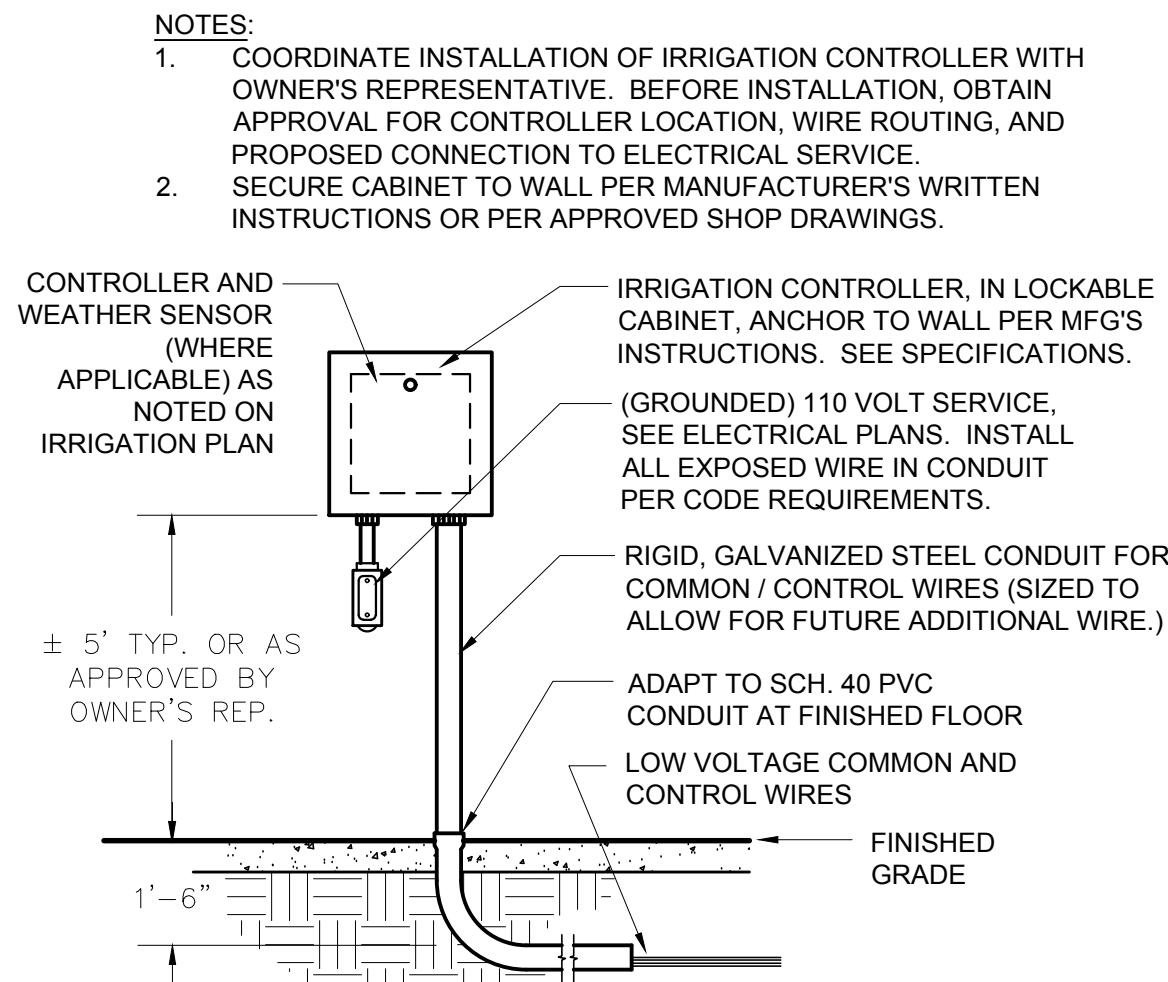
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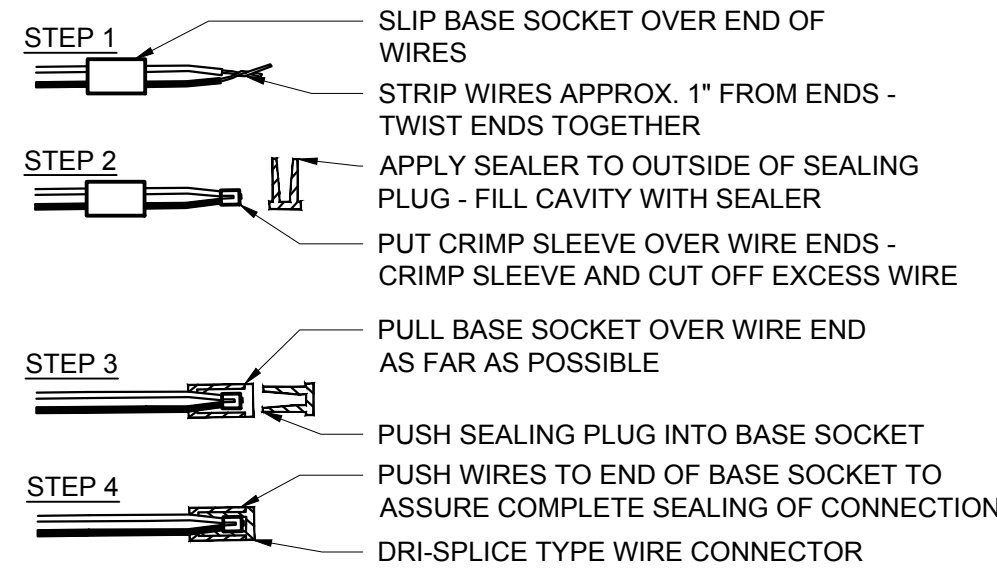


1 IRRIGATION CONTROLLER IN LOCKING CABINET

SCALE: N.T.S.

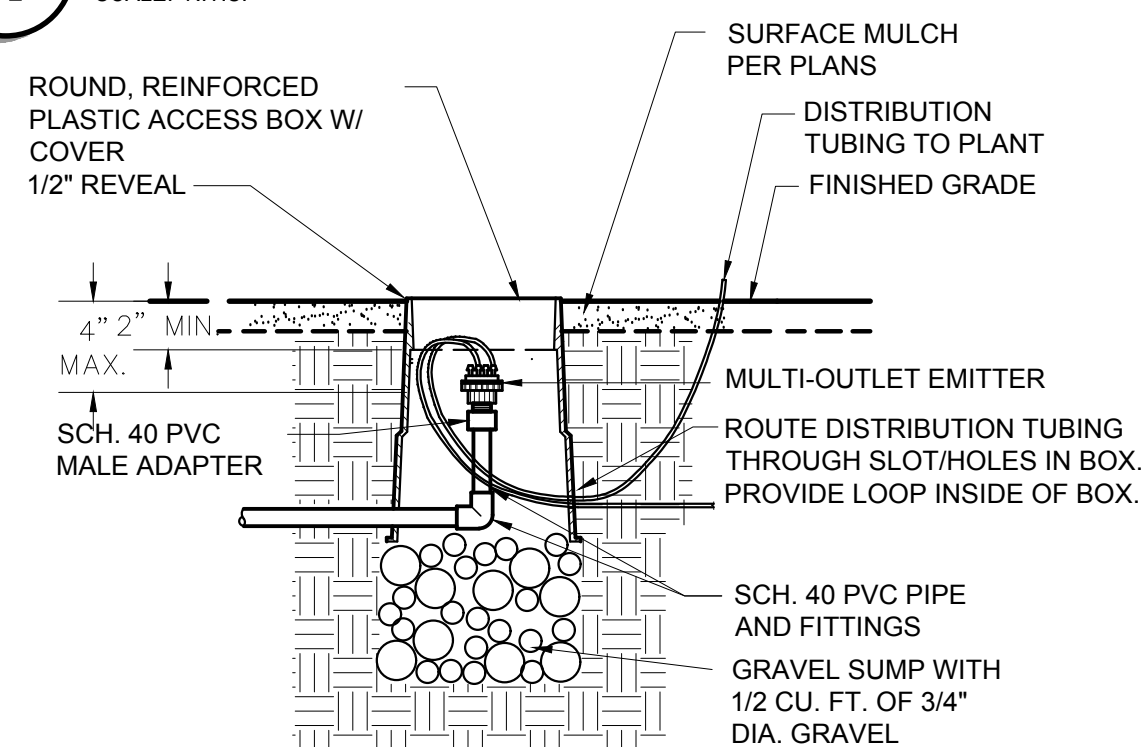
NOTES

- FOR WIRE SIZES NO. 14, 12, AND 10, ALL CONNECTIONS IN VALVE BOXES ONLY.
- INSTALL SPEARS DS-100 DRI-SPLICE CONNECTORS WITH DS-300 SEALANT.



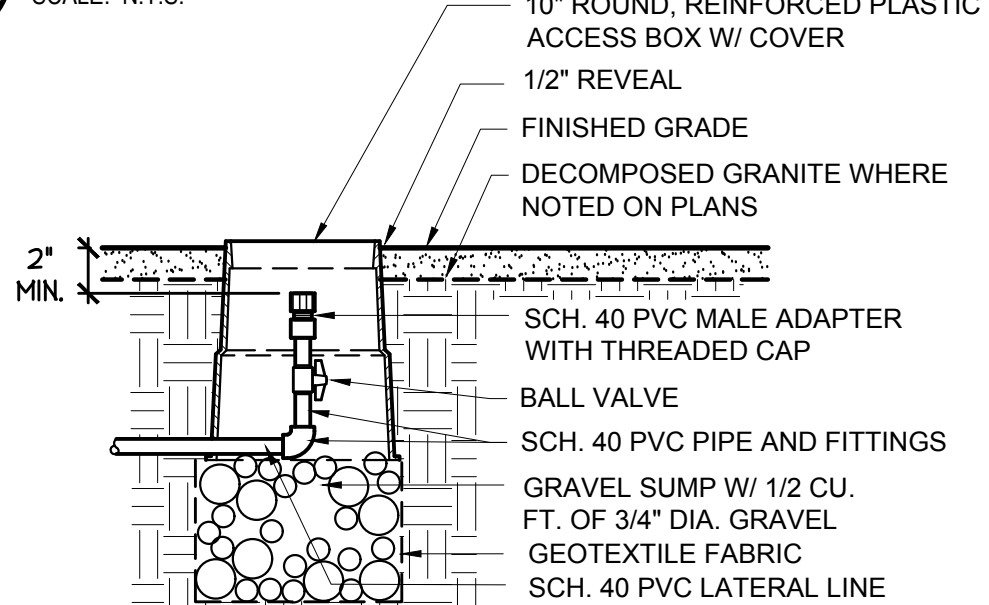
4 IRRIGATION WIRE CONNECTION

SCALE: N.T.S.



8 MULTI-OUTLET EMITTER

SCALE: N.T.S.



9 LATERAL FLUSHING END CAP

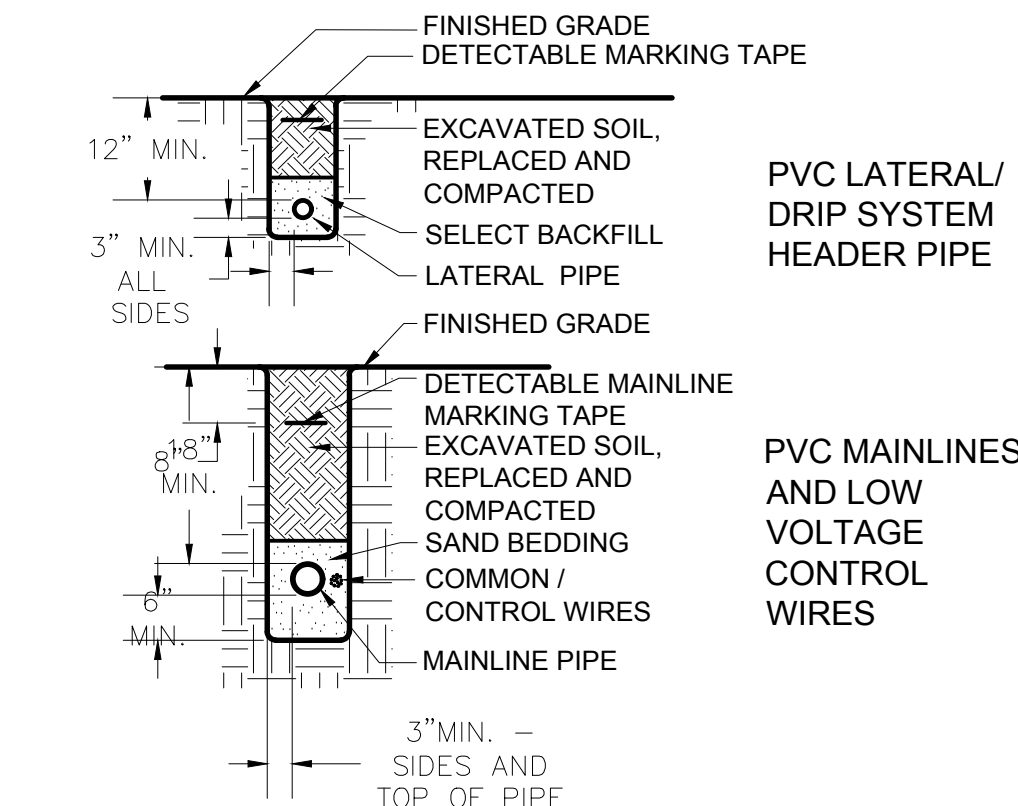
SCALE: N.T.S.

2 MASTER VALVE ASSEMBLY

SCALE: N.T.S.

NOTES

- SELECT BACKFILL SHALL BE SAND OR SOIL FREE OF ROCKS AND STONES LARGER THAN 1/4" DIA.
- BACKFILL MATERIAL SHALL BE WATERED IN AND COMPACTED TO DENSITY OF ADJACENT UNDISTURBED SOIL.

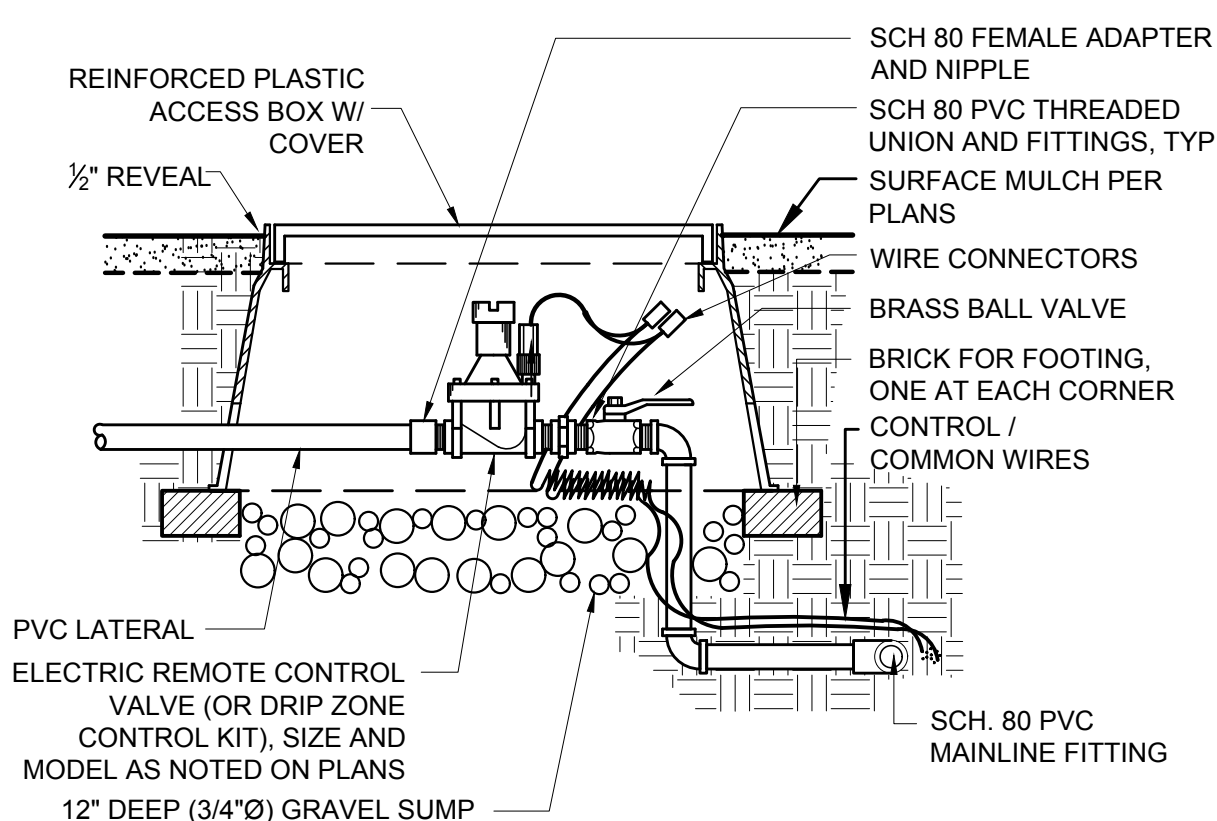


5 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE

SCALE: N.T.S.

NOTES

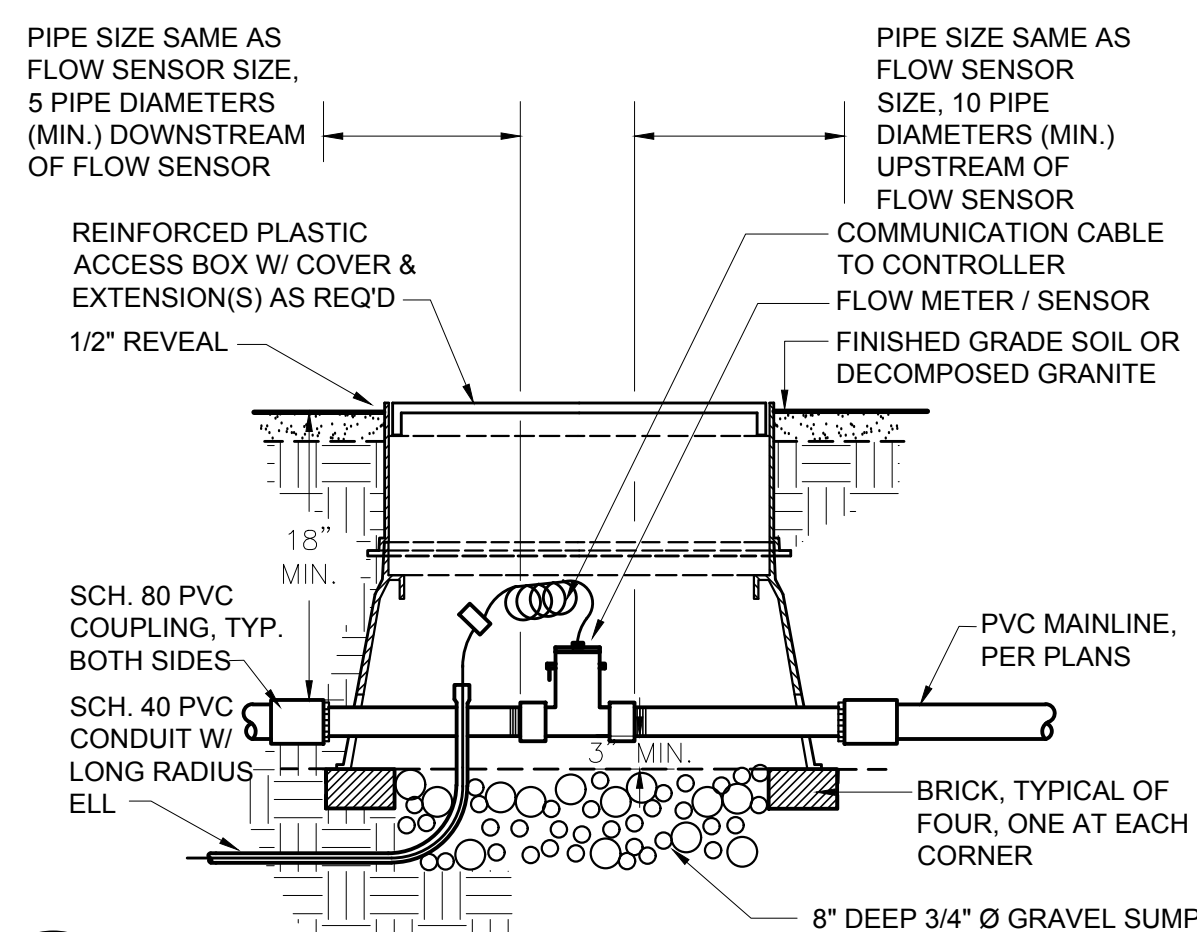
- ALL WIRES TO BE INSTALLED PER LOCAL CODE. TAPE AND BUNDLE WIRES EVERY 7". PROVIDE EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 1/2" Ø PIPE 15 TIMES).
- COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL.
- ALL THREADED PVC JOINTS SHALL BE WRAPPED WITH TEFLON TAPE.



10 ELECTRIC REMOTE CONTROL VALVE

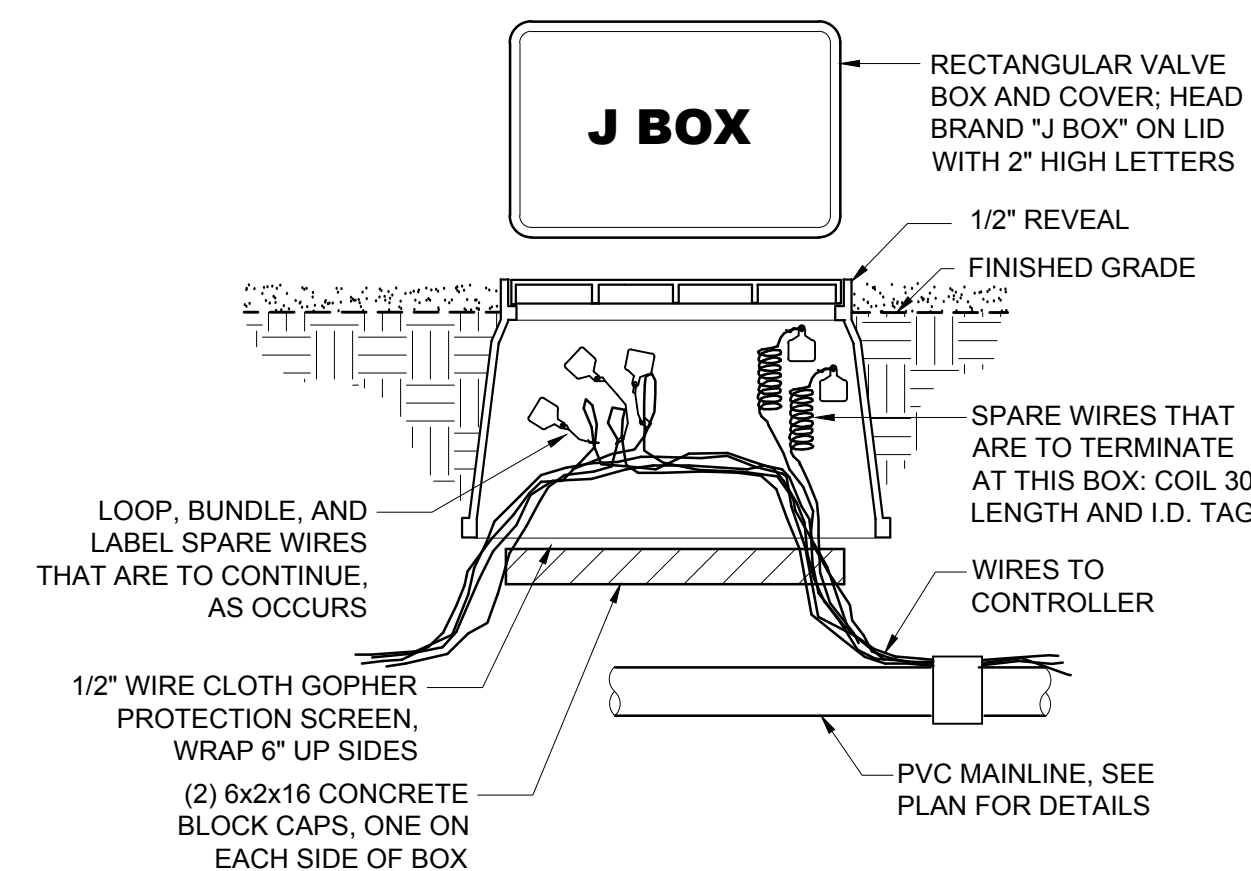
SCALE: N.T.S.

PROVIDE PULSE DECODER, PULSE TRANSMITTER, PULSE TRANSMITTER POWER SUPPLY, AND SURGE PROTECTOR IN ACCORDANCE WITH FLOW SENSOR / CONTROL SYSTEM MANUFACTURER'S RECOMMENDATIONS.



3 FLOW SENSOR ASSEMBLY

SCALE: N.T.S.

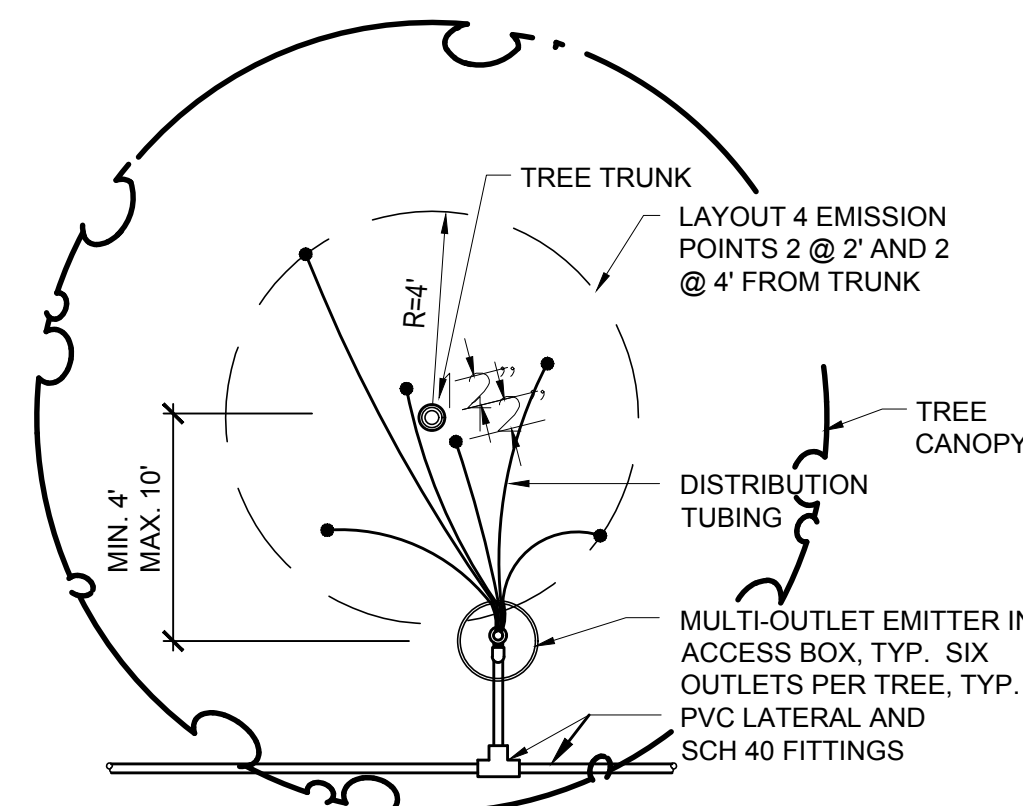


6 IRRIGATION WIRING JUNCTION BOX

SCALE: N.T.S.

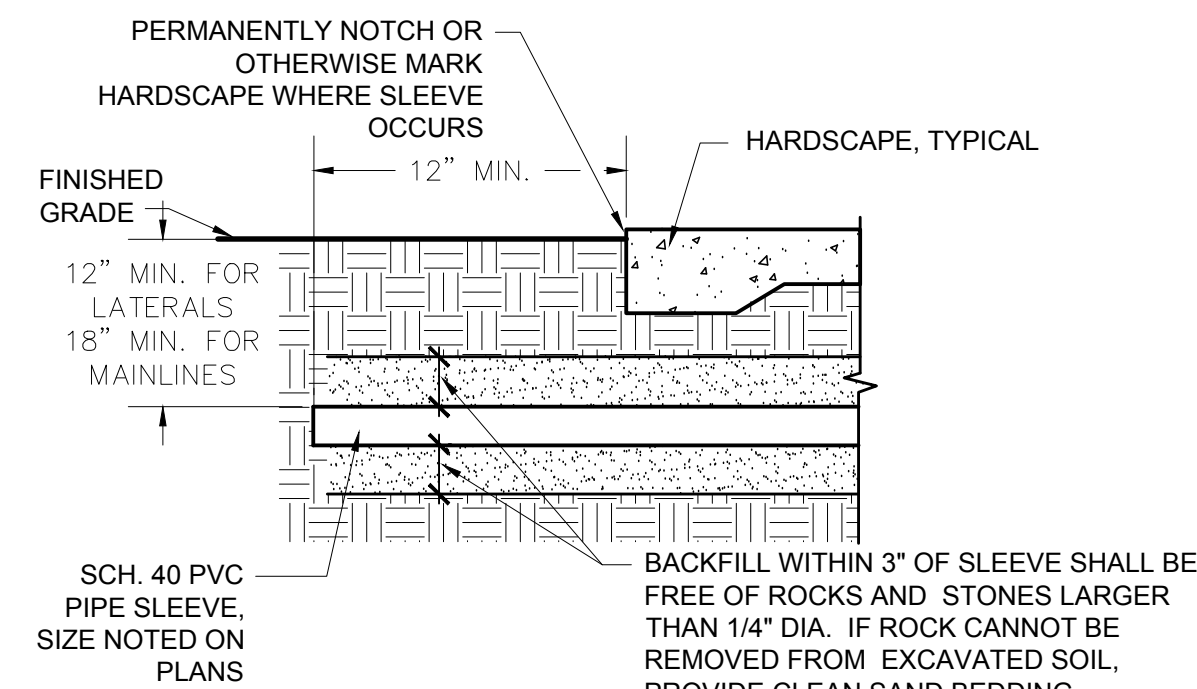
NOTE:

- LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS.
- LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.



11 EMITTER DISTRIBUTION TUBING LAYOUT - TREES

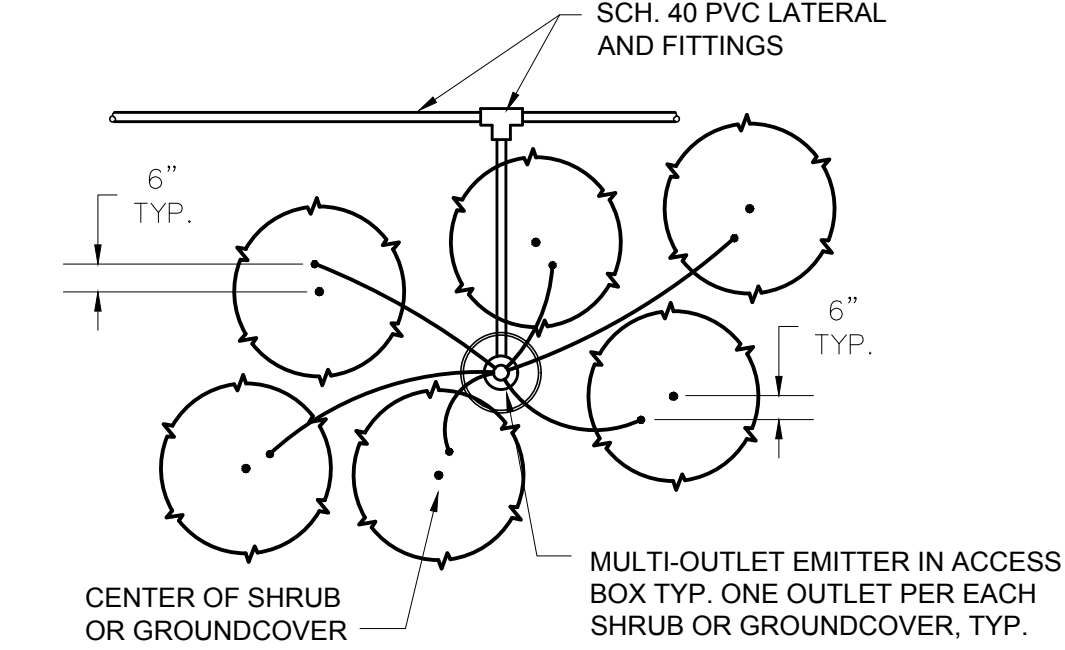
SCALE: N.T.S.



7 MAINLINE AND LATERAL PIPE SLEEVING

SCALE: N.T.S.

- NOTES:
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 - LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.



12 EMITTER DISTRIBUTION TUBING LAYOUT - SHRUBS

SCALE: N.T.S.