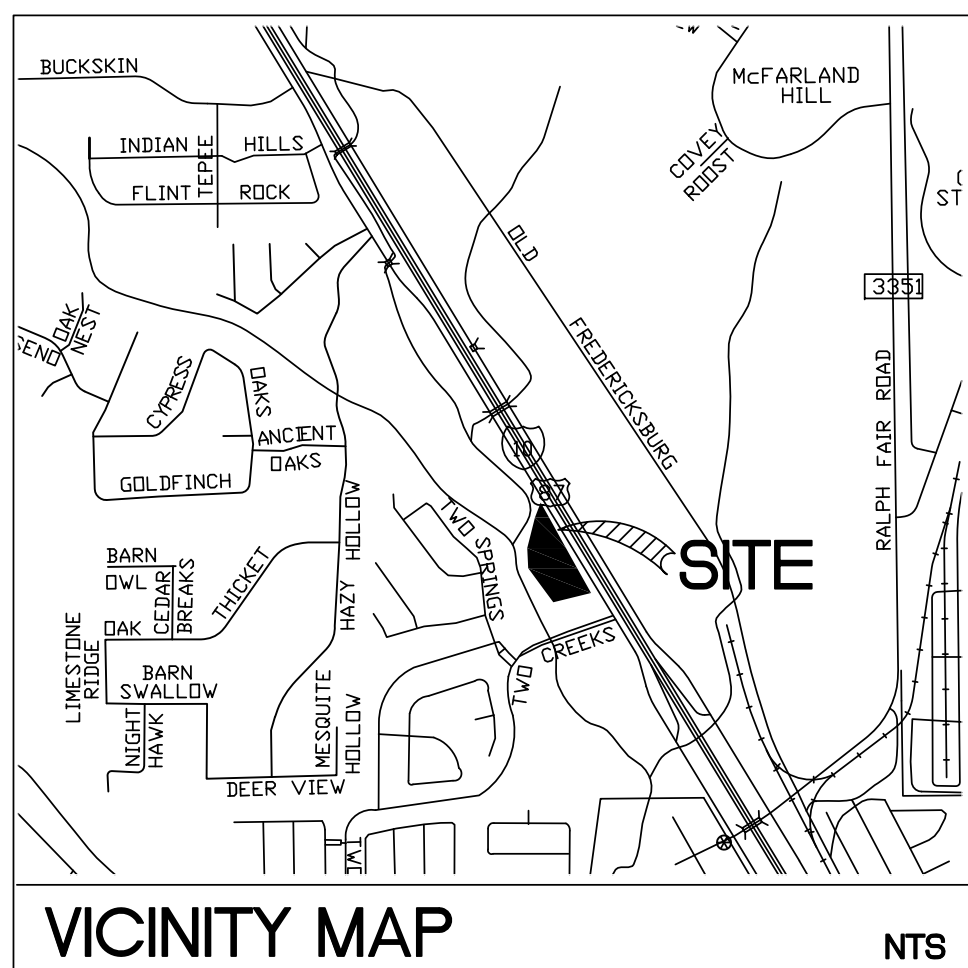


1 OVERALL TREE PRESERVATION PLAN  
SCALE: 1"=40'0"



LEGEND

- EXISTING TREES TO BE REMOVED
- EXISTING TREES TO REMAIN
- EXISTING HERITAGE TREES TO BE REMOVED
- EXISTING HERITAGE TREES TO REMAIN

- FLOOD PLAN (FP)
- ENVIRONMENTALLY SENSITIVE AREA (ESA)

NOTE:  
SEE SHEET L2.0 FOR TREE SCHEDULE AND DETAILS

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

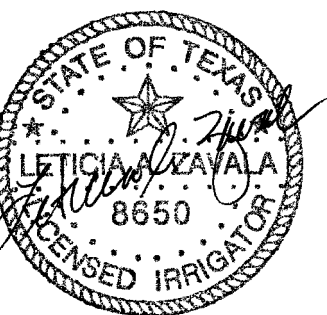
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I.H. 10 West  
Bexar County, Texas 78255

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08-15-22

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revisions  
1 CITY CMTS 3-28-23  
2 CITY CMTS 6-12-23

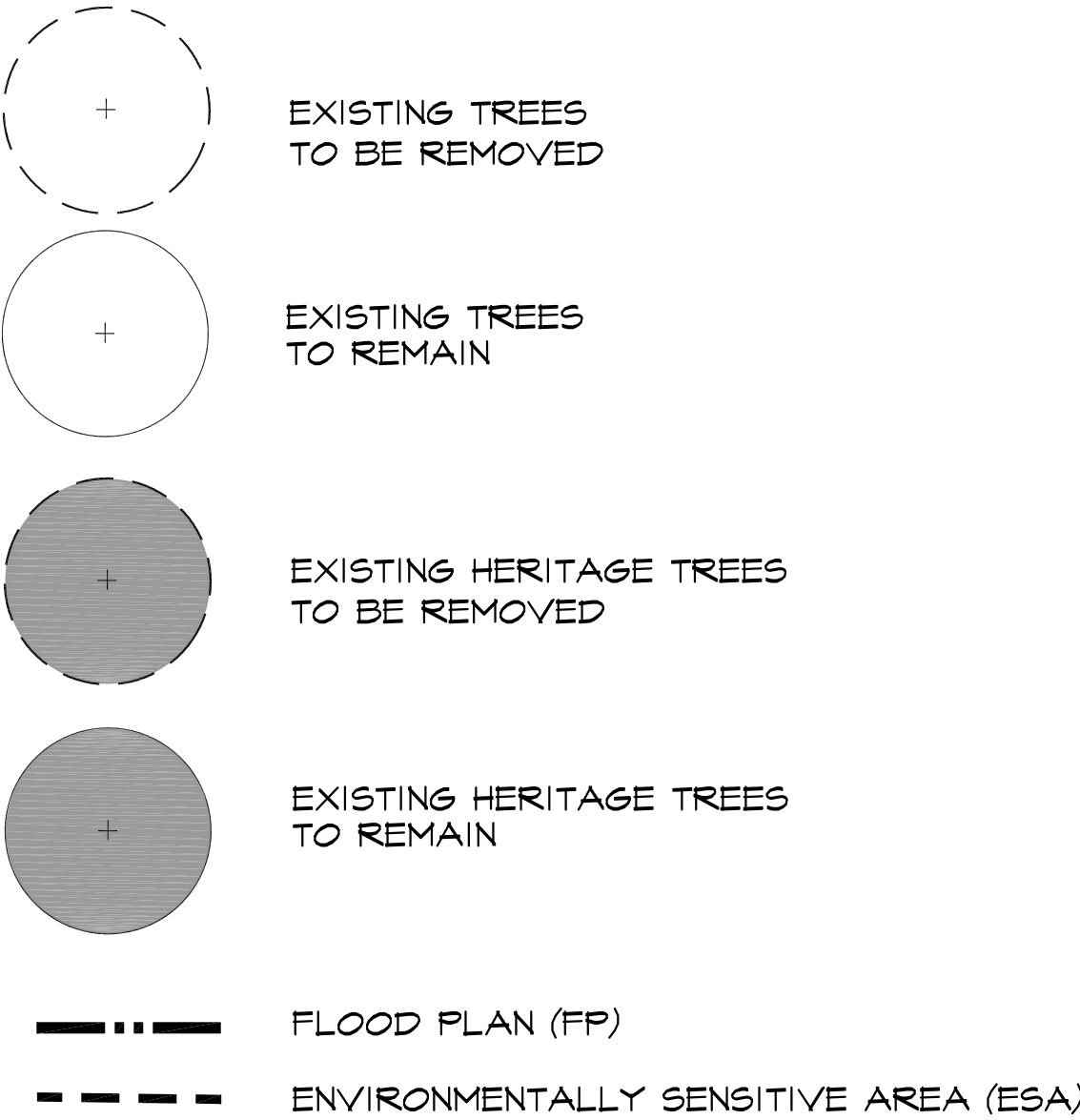
job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L1.0  
of:

**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax  
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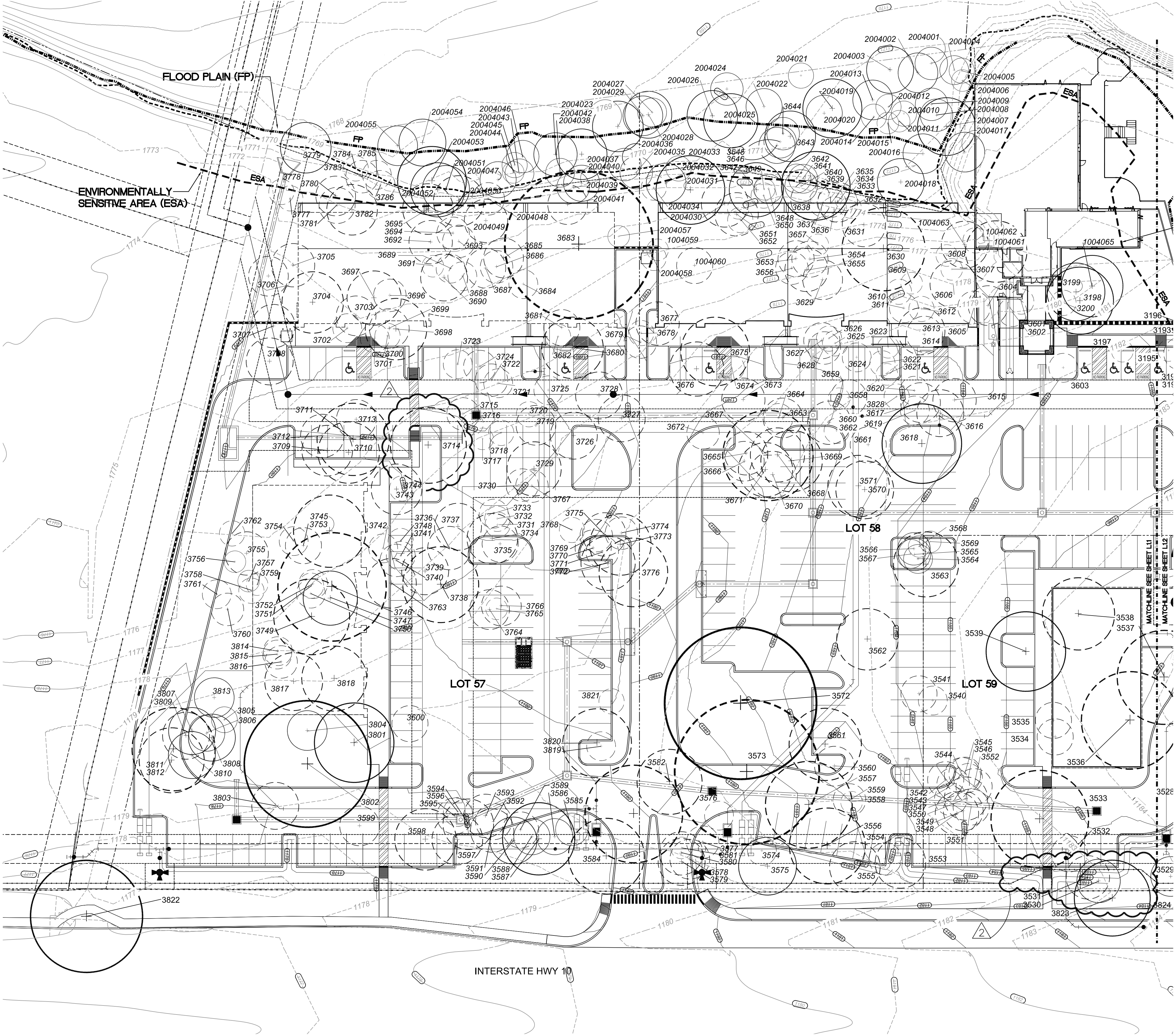
LEGEND



NOTE:  
SEE SHEET L20 FOR TREE SCHEDULE AND DETAILS

TREE PRESERVATION NOTE(S) ( # Keyed Notes)

- Tree survey information is based on Site Survey prepared by KFM Engineering, L.L.C., San Antonio, Tx.
- Barricade fencing shall be placed to protect RPZ of all trees to remain that are adjacent to construction or disturbed areas unless otherwise approved by Landscape Architect to provide access to work. In these instances the minimum distance for barricade fencing from trunk shall be equal to 50% minimum of RPZ. Five foot (5'-0") from trunk of tree or clump of trees is allowed on one side of the tree with approved alternative construction methods only. Full RPZ is required on other side. Approval from City Arborist/Tree Inspector is required. Refer to detail 3/L2.3 for tree barricade fencing.
- Root Protection Zone (RPZ): RPZ requirements are defined as 12" diameter per 1" caliper of trunk at 42" height (Diameter Breast Height, DBH). Minimum RPZ requirements are 6" to each 1" caliper at DBH or 5' to trunk whichever is greater.
- Protected & heritage trees shall be removed only under the following situations:
  - Approval from City Arborist (207-0278) is required for removal of any significant/heritage tree.
  - Cut/Fill greater than three (3") inches to take place beneath the dripline of a tree exceeds 50% of the Root Protection Zone (RPZ).
  - Construction of a building or other improvements require the removal of more than 30% of the viable portion of a tree crown.
  - Poor condition of tree.
- No equipment, vehicles or materials shall be operated or stored within the root protection zone. No clean-out areas will be constructed so that the material will be in or migrate to the root protection zone.
- Roots or branches in conflict with construction shall be cut cleanly according to proper pruning methods. All Oak wounds shall be painted within 30 minutes to prevent Oak Wilt Infection.
- Exposed roots shall be covered at the end of the work day using techniques such as covering with soil, mulch or wet burlap.
- All woody material to be removed may be chipped into mulch & distributed on site within RPZ's at trees adjacent to construction & natural areas.
- Trees which are damaged or lost due to contractor's negligence during construction shall be mitigated.
- In addition, existing protected trees on a project are to be maintained in a healthy condition at all times. This includes irrigating, fertilizing, pruning and other maintenance as needed on the project. Trees that die within twelve (12) months shall be replaced at a ratio of inch per inch for significant trees and at 3:1 for heritage trees per the Unified Development Code 35-523, Table 523-2.
- Per UDC Section 35-523(k)(4) Branch/Root Pruning and Wounded Trees: All broken branches and exposed roots two (2) inches in diameter or greater of significant, heritage or mitigation trees shall be cut cleanly and in accordance with ANSI-A300 standards.
- Contractor is responsible for providing a licensed tree maintenance professional throughout the project per City Ordinance, Part II, Chapter 21, Article VIII 21-171.



1 ENLARGED TREE PRESERVATION PLAN  
SCALE: 1"=30'0"

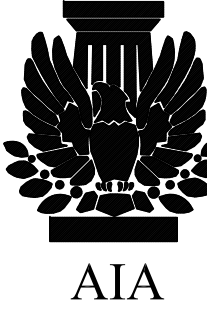


**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax  
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Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com

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I.H. 10 West  
Bexar County, Texas 78255

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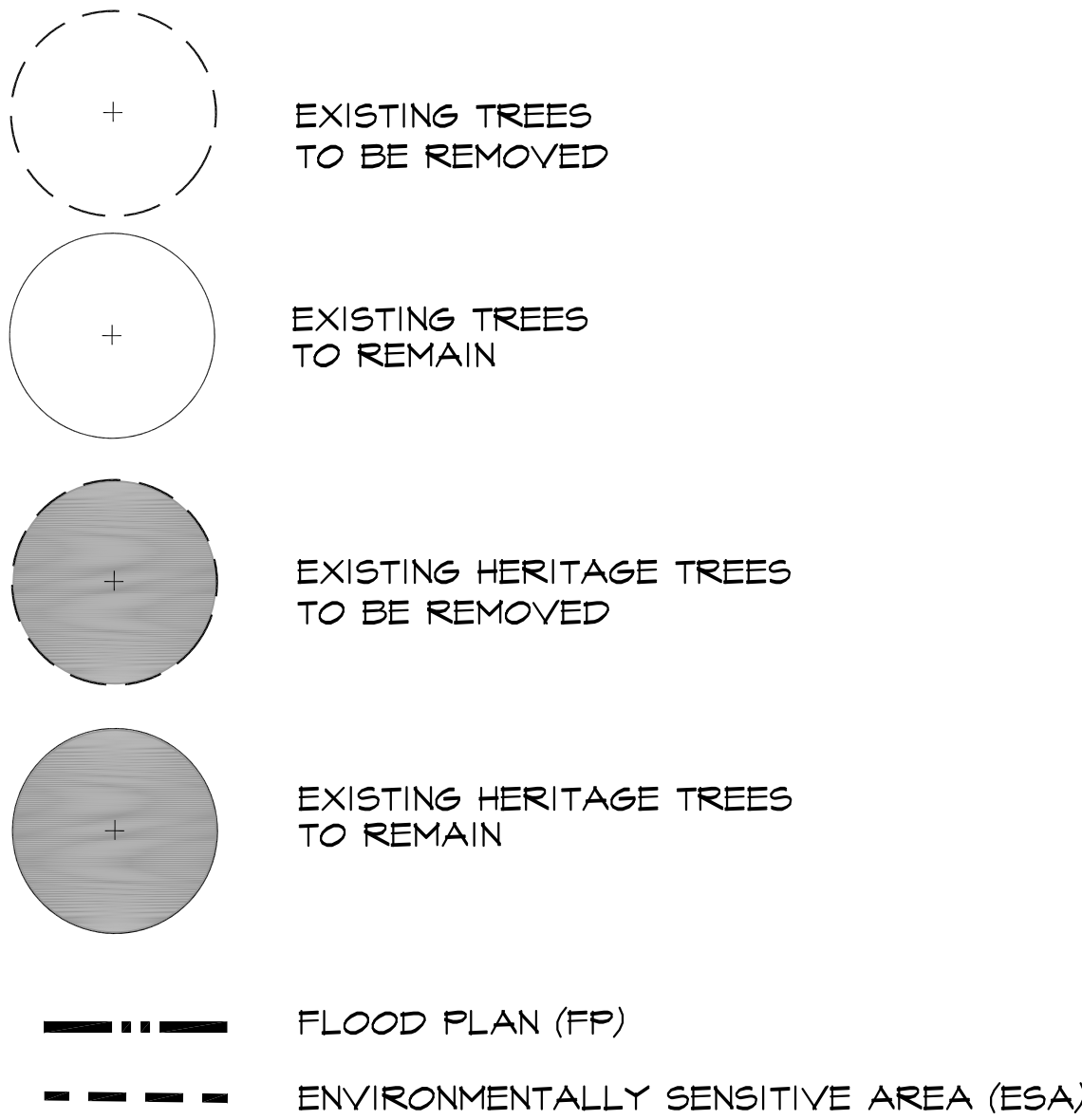
revisions  
CITY CMTS 3-28-23  
CITY CMTS 6-12-23

job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
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of:



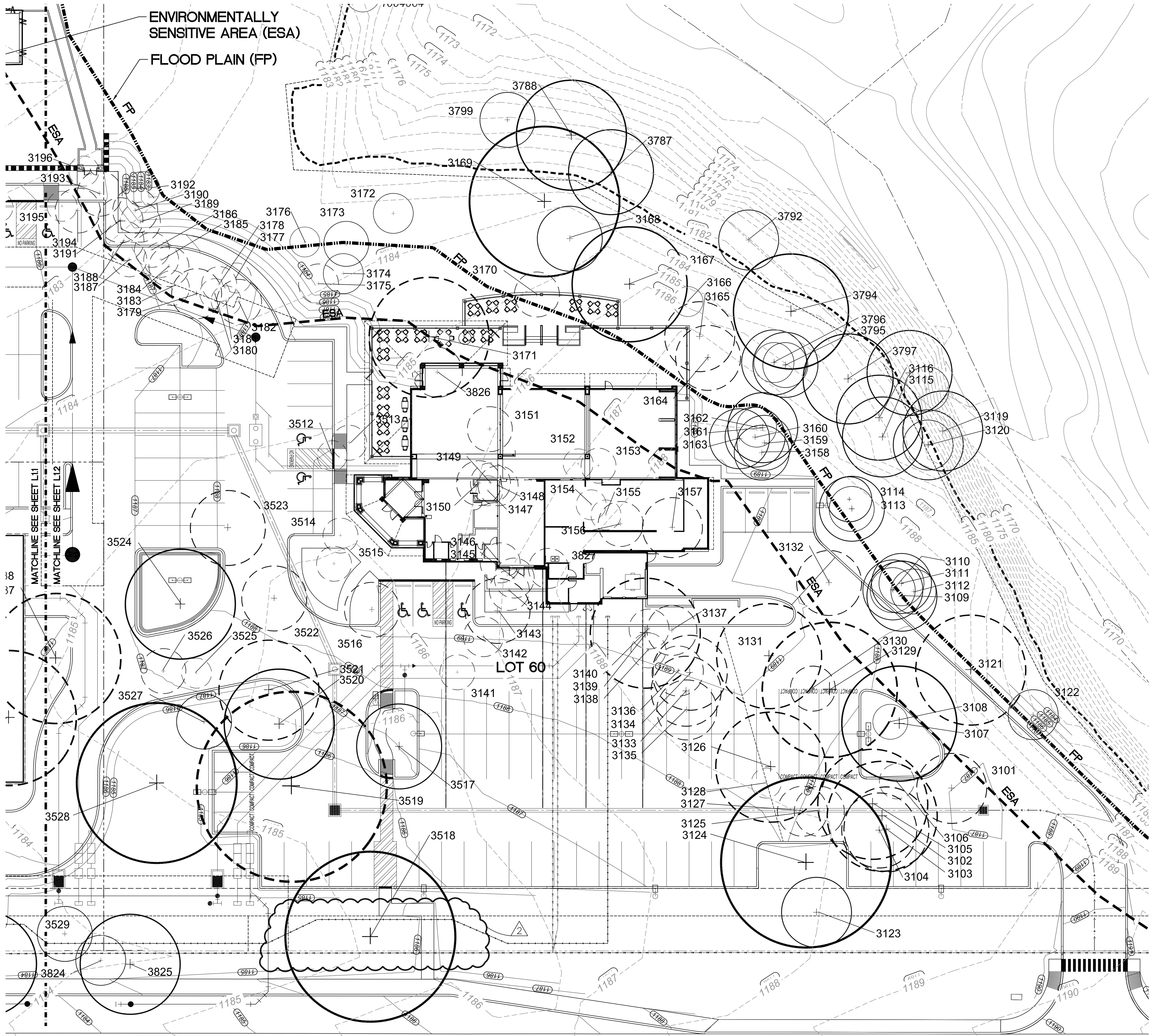
LEGEND



NOTE:  
SEE SHEET L2.0 FOR TREE SCHEDULE AND DETAILS

TREE PRESERVATION NOTE(S) (Keyed Notes)

- Tree survey information is based on Site Survey prepared by KFM Engineering, L.L.C., San Antonio, Tx.
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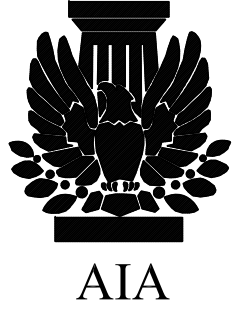
1 ENLARGED TREE PRESERVATION PLAN  
SCALE: 1"=20'0"

**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com

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I.H. 10 West  
Bexar County, Texas 78255

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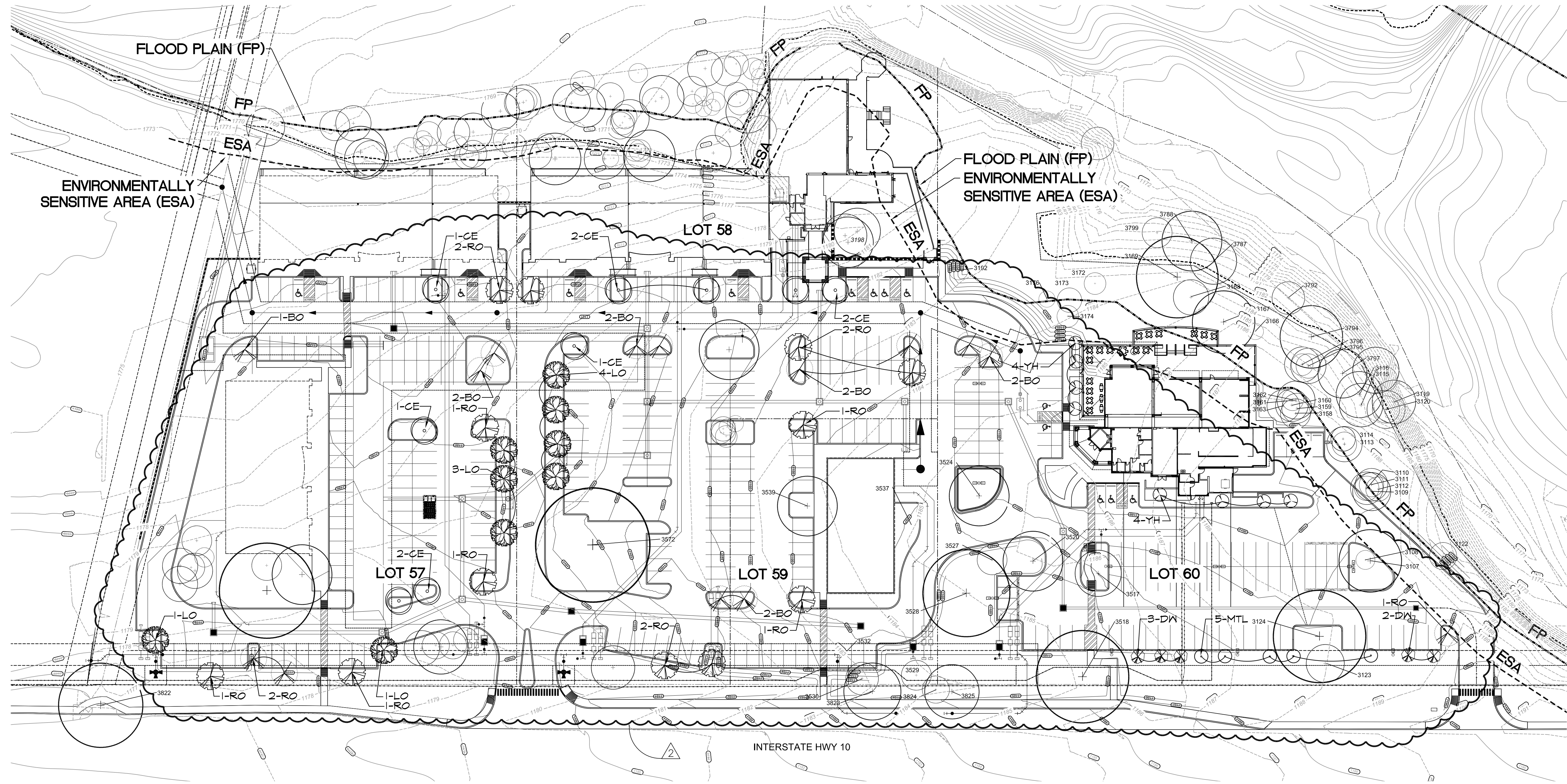
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REVISIONS  
CITY CMTS 3-28-23  
CITY CMTS 6-12-23

job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AM/LZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L12  
of:





**LEGEND**

EXISTING TREES TO REMAIN

EXISTING HERITAGE TREES TO REMAIN

CEDAR ELM (CE)  
3" CALIPER  
875 SF  
TOTAL: 9

LIVE OAK (LO)  
3" CALIPER  
875 SF  
TOTAL: 9

BUR OAK (BO)  
3" CALIPER  
1200 SF  
TOTAL: 13

SHUMARD RED OAK (RO)  
3" CALIPER  
1200 SF  
TOTAL: 13

DESERT WILLOW (DW)  
5'-6' HEIGHT  
275 SF  
TOTAL: 5

YAUPOH HOLLY (YH)  
5'-6' HEIGHT  
275 SF  
TOTAL: 8

TEXAS MT. LAUREL (MTL)  
4'-5' HEIGHT  
275 SF  
TOTAL: 5

--- FLOOD PLAN (FP)  
--- ENVIRONMENTALLY SENSITIVE AREA (ESA)

1 OVERALL TREE PLAN  
SCALE: 1"=40'0"



Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com

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revisions  
1 CITY CMTS 3-28-23  
2 CITY CMTS 8-15-23

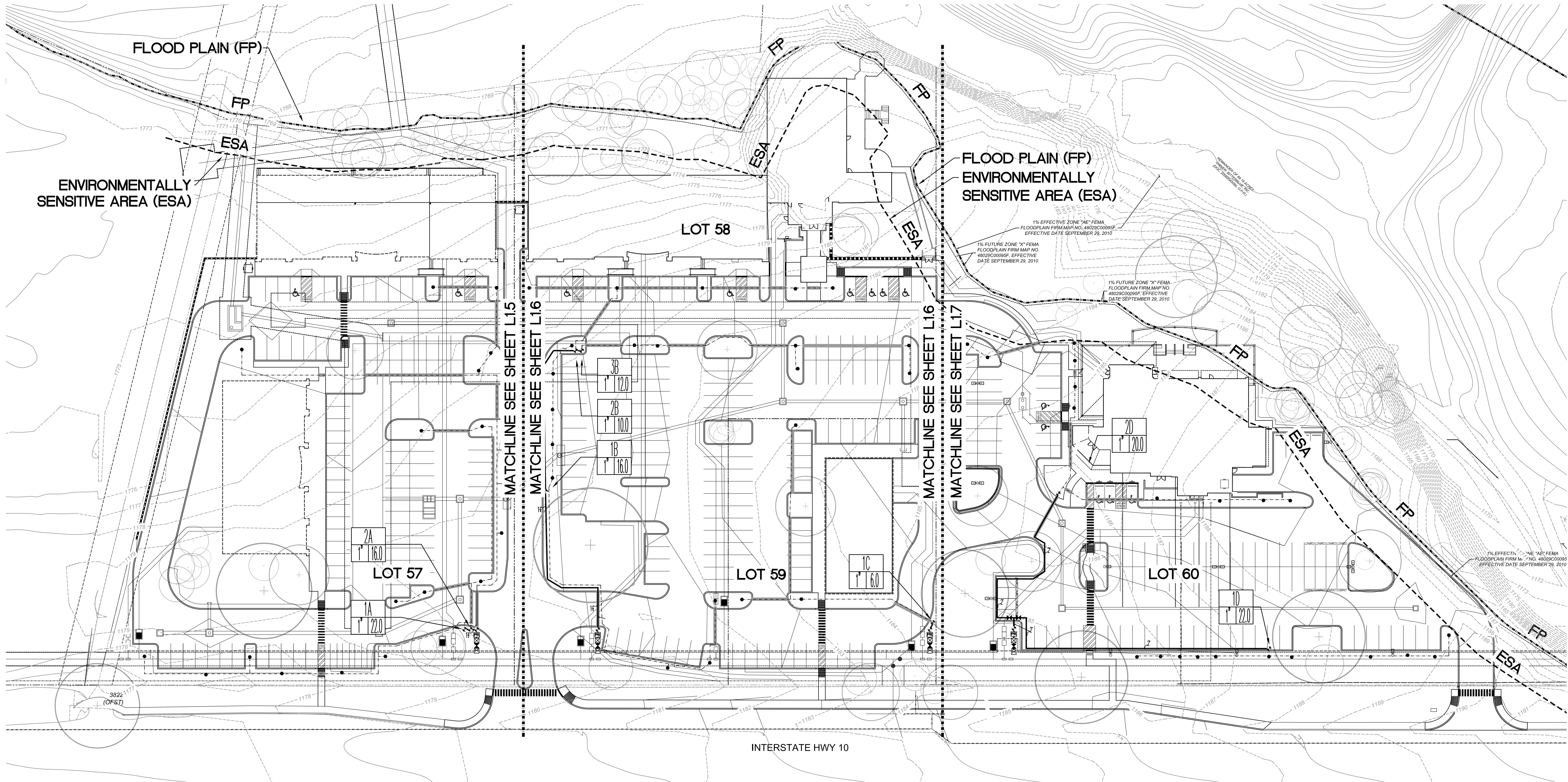
job no: 21-1196.2PN  
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drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
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Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

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L13  
of:





1 OVERALL IRRIGATION PLAN  
SCALE: 1"=40'-0"

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

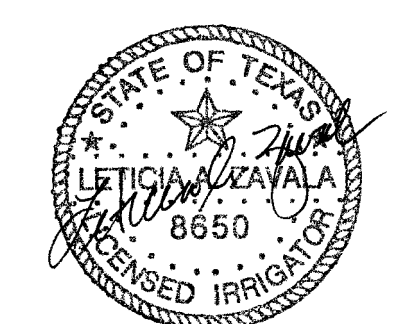
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**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

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LOT 57  
IRRIGATION DESIGN REQUIREMENTS:

PRESSURE:		
Static PSI:	90.0	
Design PSI:	53.91	
PRESSURE LOSS CALCULATIONS:		
GPM/ZONE:	22.0	1A
Service:	1"	4.75
Meter:	1"	2.7
Backflow Preventer:	1"	4.0
Master Control Valve:	1"	3.44
Elevation Loss:	0	0.0
Mainline:	1-1/2"	0.57
Remote Control Valve:	1"	3.44
Head PSI:		30.0
TOTAL LOSSES:		48.91

CONFORMITY LETTER:

I, Leticia Zavala, a licensed Irrigator in the State of Texas do certify that the irrigation plan submitted conforms to the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code and also complies with the requirements of chapter 344, 344.60, 344.61, 644.63, 344.10 - 344.12 of the Texas Administrative Code.

By, Leticia Zavala  
Licensed Irrigator's Number: #8650

- LEGEND**
- TREE BUBBLER ASSEMBLY, SEE DTL. 5/L3.0
  - ◐ REMOTE CONTROL VALVE, SEE DTL. /L3.0
  - ✕ MANUAL VALVE, SEE DTL. 2/L3.0
  - ◻ QUICK COUPLER, SEE DTL. 8/L2.0
  - ◻ BACKFLOW PREVENTER, SEE DTL. 1/L3.0
  - ◻ NEW 1" IRRIGATION WATER METER
  - PR PRESSURE REGULATOR, SEE DTL. 8/L3.0
  - TREE BUBBLER LATERAL PIPING, SEE DTL. 6/L3.0
  - SUPPLY LINE, SEE DTL. 6/L3.0
  - IRRIGATION SLEEVE, SEE DTL. 7/L2.0

- 1#  
1 1/2" 22.0
- VALVE DESIGNATION
  - LOT DESIGNATION
  - GALLONS PER MINUTE
  - VALVE SIZE
  - FLOOD PLAIN (FP)
  - ENVIRONMENTALLY SENSITIVE AREA (ESA)

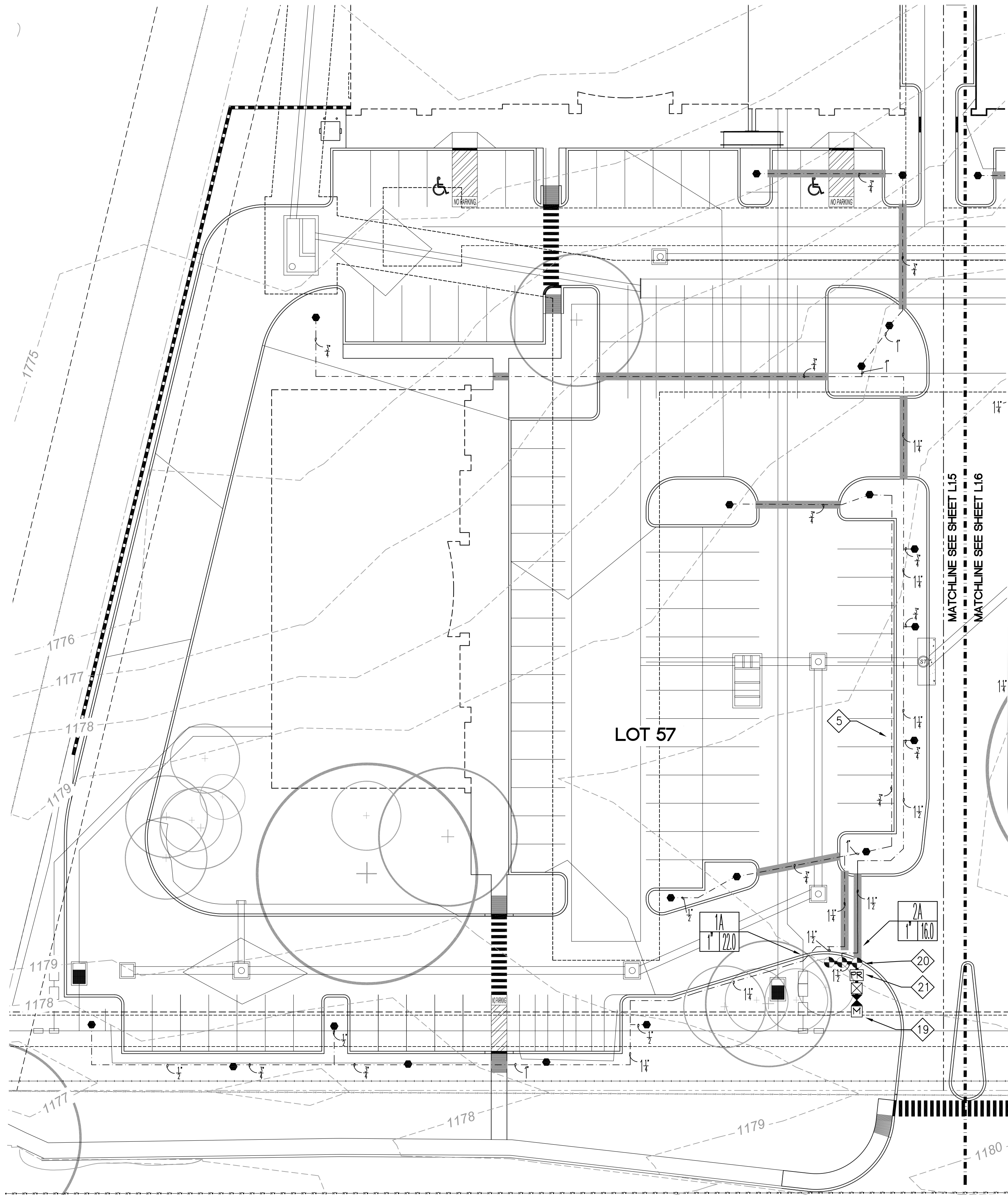
IRRIGATION NOTES ( # - Keyed Note)

- Irrigation contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the irrigation contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from inspection approval and will require the contractor to uncover work as required for approval at the cost of the contractor. Irrigation contractor is to inform Landscape Architect of the start date of work.
- The irrigation contractor is required by law to notify Texas One Call (800-245-4545) and (800) DIG TESS (800-344-8311) 12 hours prior to any excavation. Irrigation contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. Irrigation contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not Texas One Call is notified.
- Do not willfully proceed with construction as designed without verifying actual on-site water pressure from the source. Do not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect or Owner's Representative. The irrigation contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- Irrigation contractor shall be responsible for any coordination with other contractors as required to accomplish irrigation installation.
- Due to scale of drawings, it is not possible to indicate all offsets, fittings sleeves, etc., which may be required. Irrigation contractor shall carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation system, planting and architectural features. This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas and within property lines.
- It is the irrigation contractor's responsibility to coordinate piping with the landscape subcontractor to avoid conflict with planting beds. It will be the responsibility of the irrigation subcontractor to move piping to allow proper placement of plant material.
- Irrigation contractor shall be responsible for sleeves and chases wherever piping or conduit passes, under all paving, through walls, etc. All sleeve locations may not be shown on plan, coordinate with architectural and civil drawings, general contractor and other subcontractors as required. All sleeve and chase locations are not noted on plan. All sleeves shall be Sch 40 PVC, sized twice the diameter of pipe or combination of pipes enclosed within the sleeve.
- No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to the trunk than 1/2 the root protection zone radius in accordance with City of San Antonio UDC 35-523(1X1) unless done by hand. Trenching is to be done by hand or by tunneling under root system by method approved by Landscape Architect. Piping layout is diagrammatic and piping shall be routed around existing plant material to avoid damage to existing plants. Do not cut any root over 3/4" diameter. Any cuts made shall be clean and without frayed ends.
- All work will be in accordance with the requirements of the City of San Antonio Unified Development Code 35-510(j) and 35-511(c)(6) and the Texas Administrative Code Chapter 344, 344.60, 344.61, 644.63, 344.10-344.12.
- If actual site static pressure exceeds design pressure by 10%, a pressure reducing valve shall be installed. See specifications.
- Pressure at any point within a zone shall not vary by more than 10% from the design sprinkler operating pressure. See specifications for Testing.
- All irrigation work shall be installed under the supervision of a licensed (in the State of Texas) irrigation contractor.
- Obtain coverage test approval from Landscape Architect or Owner's Representative prior to planting, sodding or seeding.
- All undesignated end lateral piping shall be 1/2" in bubbler zones.
- Irrigation Contractor is to provide 2-spray heads and associated fittings and piping for use on irrigation zone(s) as directed in the field by Landscape Architect.
- Refer to civil dwgs. for grading plan.
- Per TAC Section 344.62 (d): Piping in irrigation systems must be designed and installed so that the flow of water in the pipe will not exceed a velocity of five feet per second for polyvinyl chloride (PVC).
- Statement of Area Coverage: Drawing does not provide for 100% coverage of the site. See plans and specifications for areas to be irrigated.
- New 1" irrigation meter to be supplied by existing water line along Interstate Hwy 10. Refer to Civil Dwg.
- 1" Master control valve.
- Pressure regulator. Same size as line.

VALVE SCHEDULE- LOT 57

BUB TREE BUBBLER ASSEMBLY ZONE				
STATION NO.	SIZE	GPM	•PRECIP. RATE	••SCHEDULE MIN. per DAY/WK
1A BUB	1"	22.0	3.7	10 min/3 days
2A BUB	1"	16.0	3.7	10 min/3 days

\*REQUIRED PRECIPITATION RATE = .275"/HOUR  
\*WATER SCHEDULE REQUIRED TO PROVIDE 1"/WEEK



1 IRRIGATION PLAN  
SCALE: 1"=20'-0"

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7410 John Smith Drive, Suite 208  
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revisions

job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L1.5  
of:



LOT 58  
IRRIGATION DESIGN REQUIREMENTS:

PRESSURE:  
Static PSI: 90.0  
Design PSI: 47.51

PRESSURE LOSS CALCULATIONS:	
GPM/ZONE:	12.0
Service:	2B
Meter:	1.55
Backflow Preventer:	0.79
Master Control Valve:	4.0
Elevation Loss:	2.0
Mainline:	-1
Remote Control Valve:	-0.433
Head PSI:	2.603
TOTAL LOSSES:	2.0
	30.0
	47.51

LOT 59  
IRRIGATION DESIGN REQUIREMENTS:

PRESSURE:  
Static PSI: 90.0  
Design PSI: 43.66

PRESSURE LOSS CALCULATIONS:	
GPM/ZONE:	6.0
Service:	1C
Meter:	0.43
Backflow Preventer:	0.28
Master Control Valve:	4.2
Elevation Loss:	1.75
Mainline:	0.0
Remote Control Valve:	-1
Head PSI:	-0.25
TOTAL LOSSES:	1.75
	30.0
	38.66

CONFORMITY LETTER:

I, Leticia Zavala, a licensed irrigator in the State of Texas do certify that the irrigation plan submitted conforms to the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code and also complies with the requirements of Chapter 344, 344.60, 344.61, 644.63, 344.70 - 344.72 of the Texas Administrative Code.

By, *Leticia Zavala*  
Licensed Irrigator's Number: #8650

IRRIGATION NOTES ( # - Keyed Note)

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- Irrigation contractor shall be responsible for any coordination with other contractors as required to accomplish irrigation installation.
- Due to scale of drawings, it is not possible to indicate all offsets, fittings sleeves, etc., which may be required. Irrigation contractor shall carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation system, planting and architectural features. This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas and within property lines.
- It is the irrigation contractor's responsibility to coordinate piping with the landscape subcontractor to avoid conflict with planting beds. It will be the responsibility of the irrigation subcontractor to move piping to allow proper placement of plant material.
- Irrigation contractor shall be responsible for sleeves and chases wherever piping or conduit passes, under all paving, through walls, etc. All sleeve locations may not be shown on plan, coordinate with architectural and civil drawings, general contractor and other subcontractors as required. All sleeve and chase locations are not noted on plan. All sleeves shall be 3ch 40 PVC, sized twice the diameter of pipe or combination of pipes enclosed within the sleeve.

VALVE SCHEDULE - LOT 58

BUB TREE BUBBLER ASSEMBLY ZONE

STATION NO.	SIZE	GPM	•PRECIP. RATE	••SCHEDULE MIN. per DAY/WK
1B BUB	1"	16.0	3.7	10 min./3 days
2B BUB	1"	10.0	3.7	10 min./3 days
3B BUB	1"	12.0	3.7	10 min./3 days

\*REQUIRED PRECIPITATION RATE = 215"/HOUR  
\*\*WATER SCHEDULE REQUIRED TO PROVIDE 1"/WEEK

VALVE SCHEDULE- LOT 59

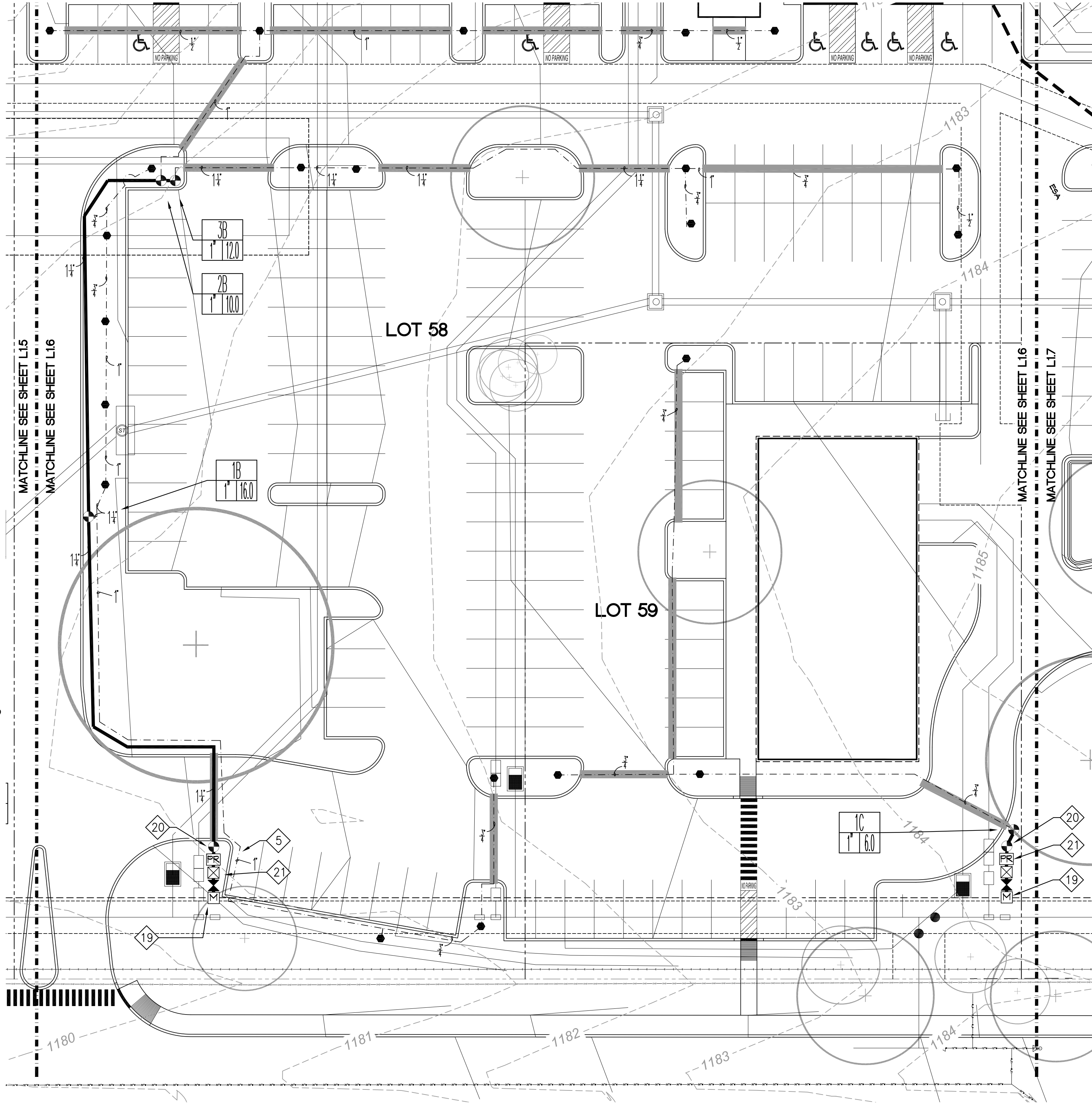
BUB TREE BUBBLER ASSEMBLY ZONE

STATION NO.	SIZE	GPM	•PRECIP. RATE	••SCHEDULE MIN. per DAY/WK
1C BUB	1"	6.0	3.7	10 min./3 days

\*REQUIRED PRECIPITATION RATE = 215"/HOUR  
\*\*WATER SCHEDULE REQUIRED TO PROVIDE 1"/WEEK

LEGEND

- TREE BUBBLER ASSEMBLY, SEE DTL. 5/L3.0
  - ◐ REMOTE CONTROL VALVE, SEE DTL. /L3.0
  - ✕ MANUAL VALVE, SEE DTL. 2/L3.0
  - QUICK COUPLER, SEE DTL. 8/L2.0
  - ⊠ BACKFLOW PREVENTER, SEE DTL. 1/L3.0
  - ⊞ NEW 1" IRRIGATION WATER METER
  - PR PRESSURE REGULATOR, SEE DTL. 8/L3.0
  - TREE BUBBLER LATERAL PIPING, SEE DTL. 6/L3.0
  - SUPPLY LINE, SEE DTL. 6/L3.0
  - IRRIGATION SLEEVE, SEE DTL. 7/L2.0
- 17#  
117/29.6  
— VALVE DESIGNATION  
— LOT DESIGNATION  
— GALLONS PER MINUTE  
— VALVE SIZE  
— FLOOD PLAIN (FP)  
- - - ENVIRONMENTALLY SENSITIVE AREA (ESA)



1 IRRIGATION PLAN  
SCALE: 1"=20'-0"

- Refer to civil dugs. for grading plan.
- Per TAC Section 344.62 (d): Piping in irrigation systems must be designed and installed so that the flow of water in the pipe will not exceed a velocity of five feet per second for polyvinyl chloride (PVC).
- Statement of Area Coverage: Drawing does not provide for 100% coverage of the site. See plans and specifications for areas to be irrigated.
- New 1" irrigation meter to be supplied by existing water line along Interstate Hwy 10. Refer to Civil Dwg.
- 1" Master control valve.
- Pressure regulator. Same size as line.

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

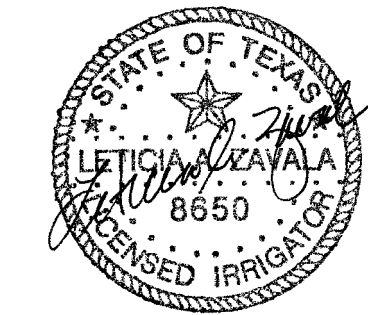
dan.muzquiz@dtmarchitects.com

NCARB CERTIFIED



The Crecent Tree Master Plan  
I.H. 10 West  
Bexar County, Texas 78255

CONSULTANTS



04-04-23

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revisions  
  
job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L16

of:

cfz C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

S:\22-1309\1\21309\1\LDWG



LOT 60  
IRRIGATION DESIGN REQUIREMENTS:

PRESSURE:		
Static PSI:	90.0	
Design PSI:	54.35	
PRESSURE LOSS CALCULATIONS:		
GPM/ZONE:	22.0	ID
Service:	1"	4.754
Meter:	1"	2.8
Backflow Preventer:	1"	4.0
Master Control Valve:	1"	3.0
Elevation Loss:	-2"	0.866
Mainline:	2"	0.930
Remote Control Valve:	1"	3.0
Head PSI:		30
TOTAL LOSSES:		49.35

CONFORMITY LETTER:

I, Leticia Zavala, a licensed irrigator in the State of Texas do certify that the irrigation plan submitted conforms to the Irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code and also complies with the requirements of Chapter 344, 344.60, 344.61, 644.63, 344.70 - 344.72 of the Texas Administrative Code.

By, Leticia Zavala  
Licensed Irrigator's Number: #8650

VALVE SCHEDULE - LOT 60

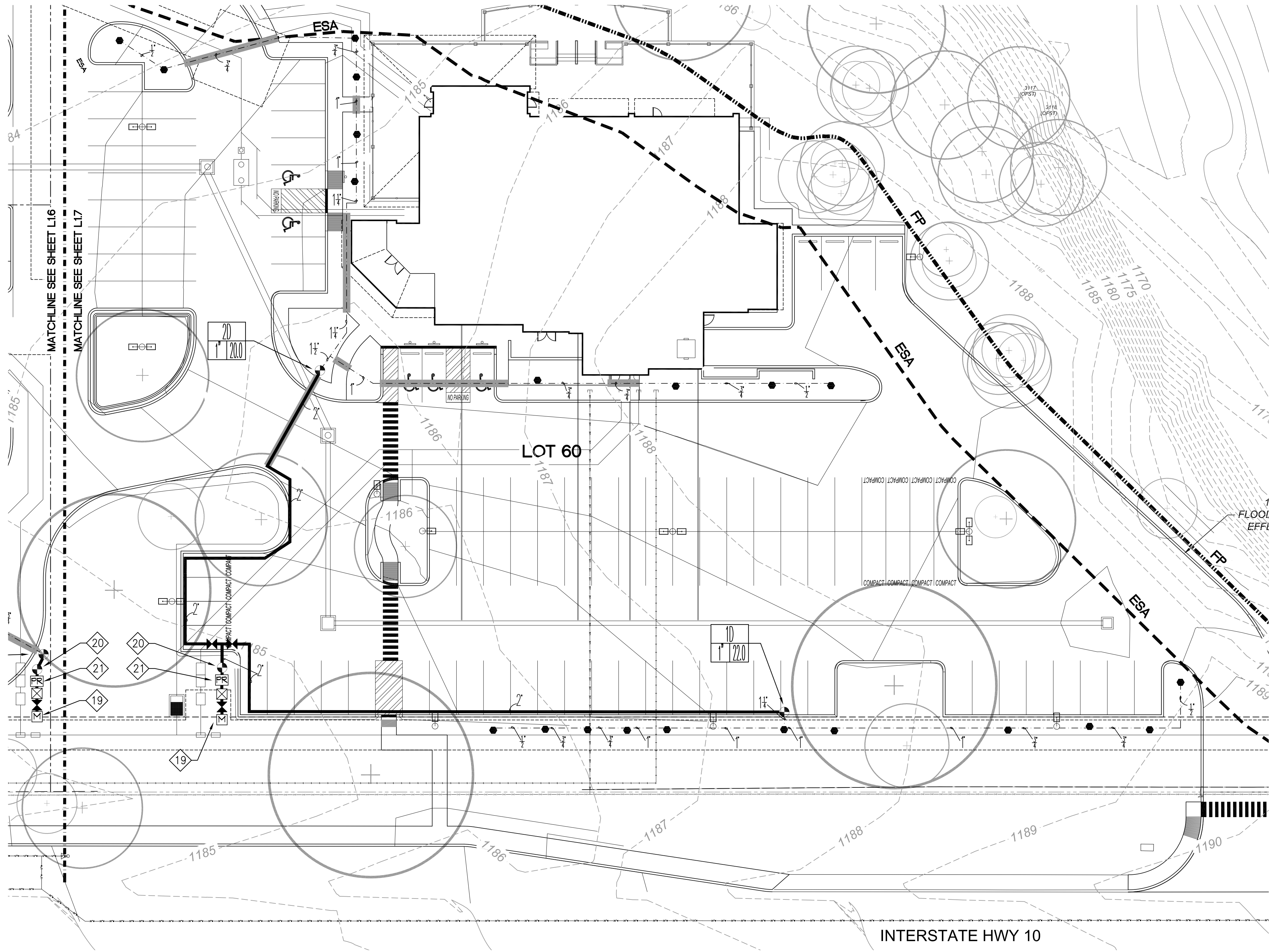
BUB TREE BUBBLER ASSEMBLY ZONE

STATION NO.	SIZE	GPM	*PRECIP. RATE	**SCHEDULE MIN. per DAY/WK
1D BUB	1"	22.0	3.1	10 min./3 days
2D BUB	1"	20.0	3.1	10 min./3 days

\*REQUIRED PRECIPITATION RATE = .275"/HOUR  
\*\*WATER SCHEDULE REQUIRED TO PROVIDE 1"/WEEK

LEGEND

- TREE BUBBLER ASSEMBLY, SEE DTL. 5/L3.0
- ⊗ REMOTE CONTROL VALVE, SEE DTL. 1/L3.0
- ⊕ MANUAL VALVE, SEE DTL. 2/L3.0
- ⊞ QUICK COUPLER, SEE DTL. 8/L2.0
- ⊠ BACKFLOW PREVENTER, SEE DTL. 1/L3.0
- ⊡ NEW 1" IRRIGATION WATER METER
- ⊞ PRESSURE REGULATOR, SEE DTL. 8/L3.0
- TREE BUBBLER LATERAL PIPING, SEE DTL. 6/L3.0
- SUPPLY LINE, SEE DTL. 6/L3.0
- IRRIGATION SLEEVE, SEE DTL. 7/L2.0
- 17# 147 23.6 VALVE DESIGNATION
- LOT DESIGNATION
- GALLONS PER MINUTE
- VALVE SIZE
- FLOOD PLAIN (FP)
- ENVIRONMENTALLY SENSITIVE AREA (ESA)



1 IRRIGATION PLAN  
SCALE: 1"=20'-0"

IRRIGATION NOTES ( # - Keyed Note)

- Irrigation contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Irrigation contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape Architect does not relieve the contractor from inspection approval and will require the contractor to uncover work as required for approval at the cost of the contractor. Irrigation contractor is to inform Landscape Architect of the start date of work.
- The Irrigation contractor is required by law to notify Texas One Call (800-245-4545) and (800) DIG TESS (800-344-8377) 72 hours prior to any excavation. Irrigation contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. Irrigation contractor shall take sole responsibility for any cost incurred due to damage of said utilities whether or not Texas One Call is notified.
- Do not willfully proceed with construction as designed without verifying actual on-site water pressure from the source. Do not willfully proceed with construction as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect or Owner's Representative. The Irrigation contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- Irrigation contractor shall be responsible for any coordination with other contractors as required to accomplish irrigation installation.

- Due to scale of drawings, it is not possible to indicate all offsets, fittings sleeves, etc., which may be required. Irrigation contractor shall carefully investigate the structural and finished conditions affecting all of his work and plan his work accordingly, furnishing such fittings, etc., as may be required to meet such conditions. Drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation system, planting and architectural features. This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only and shall be installed in planting areas and within property lines.
- It is the Irrigation contractor's responsibility to coordinate piping with the landscape subcontractor to avoid conflict with planting beds. It will be the responsibility of the Irrigation subcontractor to move piping to allow proper placement of plant material.
- Irrigation contractor shall be responsible for sleeves and chases wherever piping or conduit passes, under all paving, through walls, etc. All sleeve locations may not be shown on plan, coordinate with architectural and civil drawings, general contractor and other subcontractors as required. All sleeve and chase locations are not noted on plan. All sleeves shall be Sch 40 PVC, sized twice the diameter of pipe or combination of pipes enclosed within the sleeve.
- No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to the trunk than 1/2 the root protection zone radius in accordance with City of San Antonio UDC 35-523.1(X1) unless done by hand. Trenching is to be done by hand or by tunneling under root system by method approved by Landscape Architect. Piping layout is diagrammatic and piping shall be routed around existing plant material to avoid damage to existing plants. Do not cut any root over 3/4" diameter. Any cuts made shall be clean and without frayed ends.
- All work will be in accordance with the requirements of the City of San Antonio Unified Development Code 35-510(j) and 35-511(c)(6) and the Texas Administrative Code Chapter 344, 344.60, 344.61, 644.63, 344.70-344.72.
- If actual site static pressure exceeds design pressure by 10%, a pressure reducing valve shall be installed. See specifications.
- Pressure at any point within a zone shall not vary by more than 10% from the design sprinkler operating pressure. See specifications for Testing.
- All irrigation work shall be installed under the supervision of a licensed (in the State of Texas) Irrigation contractor.
- Obtain coverage test approval from Landscape Architect or Owner's Representative prior to planting, sodding or seeding.
- All undesignated end lateral piping shall be 1/2" in bubbler zones.
- Irrigation Contractor is to provide 2-spray heads and associated fittings and piping for use on irrigation zone(s) as directed in the field by Landscape Architect.
- Refer to civil dugs, for grading plan.
- Per TAC Section 344.62 (d): Piping in irrigation systems must be designed and installed so that the flow of water in the pipe will not exceed a velocity of five feet per second for polyvinyl chloride (PVC).
- Statement of Area Coverage: Drawing does not provide for 100% coverage of the site. See plans and specifications for areas to be irrigated.

- 19 New 1" irrigation meter to be supplied by existing water line along Interstate Hwy 10. Refer to Civil Dug.
- 20 1" Master control valve.
- 21 Pressure regulator. Same size as line.

**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

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Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com

NCARB CERTIFIED



The Crecent Tree Master Plan  
I.H. 10 West  
Bexar County, Texas 78255

CONSULTANTS



04-04-23

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revisions  
  
job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AMLZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L17

of:







TREE PRESERVATION SCHEDULE - SITE				TREES 6"+		SMALL TREE SPECIES 2"+		TREES 2.5" - <6"	TREE CANOPY SQUARE FOOTAGE	Tree Preservation Incentive (Significant Tree Canopy Credit: 5x)	LANDSCAPE ORDINANCE APPLICATION
TREE	DIAMETER BREAST		FIELD	SIGNIFICANT TREES 6" - <24" (@40% MIN.)	SIGNIFICANT TREES 10" - <24" (@40% MIN.)	HERITAGE TREES 24" + (@100%)	SIGNIFICANT TREES 5" - <12" (@40% MIN.)	HERITAGE TREES 12" + (@100%)			
3711	20"	Live Oak		20							
3712	12"	Live Oak		12							
3713	11"	Live Oak		11							
3714*	21"	Live Oak		21							
3715	9"	Cedar Elm		9							
3716	6"	Live Oak		6							
3717	6"	Live Oak		6							
3718	7"	Live Oak		7							
3719	11"	Live Oak		11							
3720	7"	Live Oak		7							
3721	8"	Live Oak		8							
3722	9"	Cedar Elm		9							
3723	8"	Live Oak		8							
3724	9"	Live Oak		9							
3725	8"	Live Oak		8							
3726	13"	Spanish Oak		13							
3727	13"	Cedar Elm		13							
3728	13"	Spanish Oak		13							
3729	10"	Live Oak		15							
3730	9"	Live Oak		9							
3731	7"	Live Oak		7							
3732	7"	Live Oak		7							
3733	8"	Live Oak		8							
3734	7"	Live Oak		7							
3735	10"	Live Oak		10							
3736	12"	Live Oak		12							
3737	13"	Live Oak		13							
3738	21"	Live Oak		21							
3739	13"	Live Oak		13							
3740	9"	Live Oak		9							
3741	8"	Live Oak		8							
3742	8"	Live Oak		8							
3743	14"	Live Oak		14							
3744	7"	Live Oak		7							
3745	20"	Live Oak		20							
3746	30"	Live Oak				30					
3747	10"	Live Oak		15							
3748	7"	Live Oak		7							
3749	21"	Live Oak		21							
3750	8"	Live Oak		8							
3751	7"	Live Oak		7							
3752	8"	Live Oak		8							
3753	10"	Live Oak		10							
3754	9"	Live Oak		8							
3755	11"	Live Oak		11							
3756	6"	Live Oak		6							
3757	6"	Live Oak		6							
3758	7"	Live Oak		7							
3759	6"	Live Oak		6							
3760	9"	Live Oak		9							
3761	8"	Live Oak		8							
3762	7"	Live Oak		7							
3763	12"	Live Oak		12							
3764	11"	Live Oak		11							
3765	6"	Live Oak		6							
3766	11"	Live Oak		11							
3767	9"	Spanish Oak		9							
3768	7"	Live Oak		7							
3769	9"	Spanish Oak		9							

TREE PRESERVATION SCHEDULE - FLOODPLAIN				TREES 6"+								SMALL TREE SPECIES 2"+				TREES 2.5" - <6"		TREE CANOPY SQUARE FOOTAGE	Tree Preservation Incentive (Significant Tree Canopy Credit .5x)	LANDSCAPE ORDINANCE APPLICATION
TREE NUMBER	DIAMETER BREAST HEIGHT	SPECIES	FIELD NOTE	SIGNIFICANT TREES 6" - <24" (@80% MIN.)		SIGNIFICANT TREES 10" - <24" (@80% MIN.)		HERITAGE TREES 24"+ (@100%)			SIGNIFICANT TREES 5" - <12" (@40% MIN.)		HERITAGE TREES 12"+ (@100%)		TO REMAIN					
				TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED (3:1)	TO BE REMOVED (1:1)	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED						
3111****	9"	Live Oak		9																
3112	9"	Live Oak		9																
3113	13"	Live Oak		13																
3114	8"	Live Oak		8																
3115	16"	Live Oak		16																
3116	17"	Live Oak		17																
3119	16"	Cedar Elm		16																
3120	14"	Spanish Oak		14																
3122	10"	Juniper Cedar				10														
3164	13"	Live Oak			13															
3165	14"	Live Oak			14															
3166	6"	Live Oak		6																
3167**	23"	Live Oak		23																
3168	13"	Hackberry				13														
3169	30"	Live Oak						30												
3170	9"	Live Oak			9															
3172	8"	Live Oak		8																
3173	9"	Live Oak		9																
3176	6"	Live Oak		6																
3787	17"	Live Oak		17																
3788	22"	Live Oak		22																
3792	12"	Juniper Cedar				12														
3794	23"	Live Oak		23																
3795	13"	Live Oak		13																
3796	13"	Live Oak		13																
3797	19"	Live Oak		18																
3799	11"	Juniper Cedar				11														
3800	12"	Cedar Elm		12																
1004064	7"	Cedar Elm		7																
2004001	9"	Live Oak		9																
2004002	11"	Juniper Cedar				11														
2004003	13"	Live Oak		13																
2004004	8"	Live Oak		8																
2004005	6"	Live Oak		6																
2004006	6"	Live Oak		6																
2004007	15"	Live Oak		15																
2004008	9"	Live Oak		9																
2004009	9"	Live Oak		9																
2004010	7"	Spanish Oak		7																
2004011	9"	Live Oak		9																
2004012	7"	Live Oak		7																
2004013	11"	Cedar		11																
2004014	7"	Live Oak		7																
2004015	6"	Live Oak		6																
2004019	15"	Cedar Elm		15																
2004020	9"	Cedar Elm		9																
2004021	7"	Cedar Elm		7																
2004022	10"	Live Oak		10																
2004023	14"	Live Oak		14																
2004024	9"	Live Oak		9																
2004025	15"	Live Oak		15																
2004026	14"	Live Oak		14																
2004027	8"	Cedar Elm		8																
2004028	13"	Live Oak		13																
2004029	11"	Cedar Elm		11																
2004054	13"	Cedar Elm		13																
2004055	11"	Live Oak		11																
SUB-TOTAL INCHES:				550	36	47	10	30	0	0	0	0	0	0	0	0	0	0		
TOTAL ON-SITE INCHES:				643					30			0		0						
MIN. REQUIRED PRESERVED INCHES:				514					30			0		0						
% INCHES PRESERVED:				92.85%					100.00%			0.00%		0.00%						
SURPLUS INCHES:				83					0			0		0						
INCHES TO BE MITIGATED:				0					0			0		0						
LESS INCHES MITIGATED W/ EXTG. TREES:				0					0			0		0						
TOTAL SURPLUS INCHES:				83					0			0		0						
TOTAL MITIGATED INCHES PROVIDED:				0					0			0		0						
TOTAL MITIGATED INCHES REMAINING:				0					0			0		0						
TOTAL PAYMENT TO TREE MITIGATION FUND:				\$0					\$0											
TOTAL PAYMENT TO TREE CANOPY FUND:				\$0					\$0											

LEGEND:  
 \*EXISTING TREES SCHEDULED TO REMAIN, BUT NOT INCLUDED IN TO REMAIN CALCULATIONS  
 \*\*EXISTING HERITAGE TREES TO RECEIVE TREE WARRANTY  
 \*\*\*INVASIVE TREE SPECIES, DOES NOT COUNT IN CALCULATIONS  
 \*\*\*\*EXISTING TREE TO REMAIN, NO WORK OCCURS CLOSER THAN 5' FROM TRUNK.  
 \*\*\*\*\*SITE IS IN THE CRAG, 15% CANOPY COVERAGE IS REQUIRED

(ROW) = TREES IN RIGHT OF WAY, DO NOT COUNT IN CALCULATIONS  
(EASE) = TREES IN EASEMENT, DO NOT COUNT IN CALCULATIONS  
(NOP) = NOT ON PROPERTY  
ST = EXISTING TREES TO BE USED FOR STREET TREE ELECTIVE  
PLS = EXISTING TREES TO BE USED FOR PARKING LOT SHADING ELECTIVE  
EXT = EXISTING TREES TO BE USED FOR PRESERVATION ELECTIVE  
MIT = EXISTING TREES LESS THAN 6" TO BE USED FOR MITIGATION PURPOSES  
CMIT = TREES TO BE USED FOR TREE CANOPY MITIGATION

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

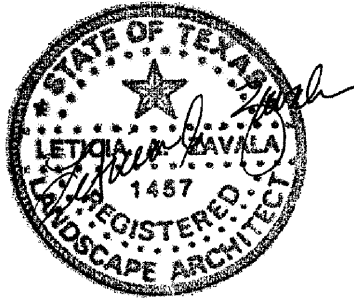
dan.muzquiz@dtmarchitects.com

NCARB CERTIFIED



**The Crecent Tree Master Plan**  
**I.H. 10 West**  
**Bexar County, Texas 78255**

## CONSULTANTS



08-15-22

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revisions

1 CITY CMTS 4-4-23

2 REVISIONS 4-26-23

7 CITY CLERK 6 10 22

5 CITY CMIS 6-12-23

4 CITY CMTS 9-21-23

job no: 21-1196.2PN

date: 08-15-22

drawn by: AM/LZ

checked by: LZ

proj. arch.: LZ

## L2.1

of:

**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 200  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

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TREE PRESERVATION SCHEDULE - ENVIRONMENTALLY SENSITIVE AREA				TREES 6"+					SMALL TREE SPECIES 2"+					TREES 2.5" - <6"		TREE CANOPY SQUARE FOOTAGE	Tree Preservation Incentive (Significant Tree Canopy Credit: .5x)	LANDSCAPE ORDINANCE APPLICATION
TREE NUMBER	DIAMETER BREST HEIGHT	SPECIES	FIELD NOTE	SIGNIFICANT TREES 6" - <24" (@80% MIN.)		SIGNIFICANT TREES 10" - <24" (@80% MIN.)		HERITAGE TREES 24"+ (@100%)			SIGNIFICANT TREES 5" - <12" (@40% MIN.)		HERITAGE TREES 12"+ (@100%)		TO REMAIN			
				TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED (3:1)	TO BE REMOVED (1:1)	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED				
3109*	14"	Live Oak																
3110*	12"	Live Oak			14													
					12													
3121	23"	Live Oak			23													
3132	13"	Live Oak			13													
3158	11"	Live Oak			11													
3159	11"	Live Oak			11													
3160	12"	Live Oak			12													
3161	14"	Live Oak			14													
3162	8"	Live Oak			8													
3163	12"	Live Oak			12													
3171	24"	Live Oak																
3174	8"	Live Oak			8													
3175	8"	Live Oak			8													
3177	6"	Live Oak			6													
3178	7"	Live Oak			7													
3179	10"	Live Oak			10													
3180	6"	Live Oak			6													
3181	6"	Live Oak			6													
3182	9"	Live Oak			9													
3183	7"	Live Oak			7													
3184	8"	Live Oak			8													
3185	7"	Live Oak			7													
3186	7"	Live Oak			7													
3187	7"	Live Oak			7													
3188	8"	Live Oak			8													
3189	8"	Live Oak			8													
3190	9"	Live Oak			9													
3191	9"	Live Oak			9													
3192	7"	Live Oak			7													
3193	9"	Live Oak			9													
3196	6"	Live Oak			6													
3641	8"	Live Oak			8													
3642	8"	Live Oak			8													
3643	13"	Live Oak			13													
3644	9"	Live Oak			9													
3645	8"	Live Oak			8													
3646	10"	Live Oak			10													
3779	14"	Live Oak			14													
3780	11"	Cedar Elm			11													
3783	9"	Live Oak			9													
3784	7"	Live Oak			7													
3785	8"	Cedar Elm			8													
3786	8"	Live Oak			8													
2004016	11"	Cedar Elm			11													
2004017	10"	Cedar Elm			10													
2004018	13"	Juniper Cedar					13											
2004033	7"	Live Oak			7													
2004034	7"	Live Oak			7													
2004035	14"	Live Oak			14													
2004036	9"	Cedar Elm			9													
2004037	14"	Live Oak			14													
2004038	8"	Cedar Elm			8													
2004039	9"	Live Oak			9													
2004040	10"	Live Oak			10													
2004042	12"	Juniper Cedar					12											
2004043	8"	Cedar Elm			8													
2004044	6"	Cedar Elm			6													
2004045	7"	Live Oak			7													
2004046	9"	Live Oak			9													
2004047	10"	Cedar Elm			10													
2004048	9"	Cedar Elm			9													
2004050	14"	Live Oak			14													
2004051	13"	Live Oak			13													
2004052	15"	Live Oak			15													
2004053	19"	Cedar Elm			19													
SUB-TOTAL INCHES:				356	248	629	25	0	0	0	0	0	0	0	0	0	0	
TOTAL ON-SITE INCHES:																		
MIN. REQUIRED PRESERVED INCHES:						503												
% INCHES PRESERVED:						60.57%												
SURPLUS INCHES:						0												
INCHES TO BE MITIGATED:						122												
LESS INCHES MITIGATED W/ EXTG. TREES:						0												
TOTAL SURPLUS INCHES:						0												
TOTAL MITIGATED INCHES PROVIDED:						0												
TOTAL MITIGATED INCHES REMAINING:						122												
TOTAL PAYMENT TO TREE MITIGATION FUND:						\$24,400												
TOTAL PAYMENT TO TREE CANOPY FUND:						\$24,400												

LEGEND:  
\*EXISTING TREES SCHEDULED TO REMAIN, BUT NOT INCLUDED IN TO REMAIN CALCULATIONS.  
\*\*EXISTING HERITAGE TREES TO RECEIVE TREE WARRANTY  
\*\*\*INVASIVE TREE SPECIES, DOES NOT COUNT IN CALCULATIONS  
\*\*\*\*EXISTING TREE TO REMAIN, NO WORK OCCURS CLOSER THAN 5' FROM TRUNK.  
\*\*\*\*\*SITE IS IN THE DRAG, 15% CANOPY COVERAGE IS REQUIRED

(ROW) = TREES IN RIGHT OF WAY, DO NOT COUNT IN CALCULATIONS  
(EASE) = TREES IN EASEMENT, DO NOT COUNT IN CALCULATIONS  
(NOP) = NOT ON PROPERTY  
ST = EXISTING TREES TO BE USED FOR STREET TREE ELECTIVE  
PLS = EXISTING TREES TO BE USED FOR PARKING LOT SHADING ELECTIVE  
EXT = EXISTING TREES TO BE USED FOR PRESERVATION ELECTIVE  
MIT = EXISTING TREES LESS THAN 6" TO BE USED FOR MITIGATION PURPOSES  
CMT = TREES TO BE USED FOR TREE CANOPY MITIGATION

R.O.W. TREE PRESERVATION SCHEDULE				TREES 6"+							SMALL TREE SPECIES 2"+			
TREE NUMBER	DIAMETER BREAST HEIGHT	SPECIES	FIELD NOTE	SIGNIFICANT TREES 6" - <24" (@100%)		SIGNIFICANT TREES 10" - <24" (@100% MIN.)		HERITAGE TREES 24" - (@100%)			SIGNIFICANT TREES 5" - <12" (@100% MIN.)		HERITAGE TREES 12" - (@100%)	
				TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED (3:1)	TO BE REMOVED (1:1)	TO REMAIN	TO BE REMOVED	TO REMAIN	TO BE REMOVED
3822	31"	Live Oak	(ROW)					31						
3823	20"	Live Oak	(ROW)	20										
3824	10"	Live Oak	(ROW)	10										
3825	20"	Live Oak	(ROW)	20										
SUB-TOTAL INCHES:				50	0	0	0	31	0	0	0	0	0	0
TOTAL ON-SITE INCHES:					50				31			0		0
MIN. REQUIRED PRESERVED INCHES:					50				31			0		0
% INCHES PRESERVED:					100.00%				100.00%			0.00%		0.00%
SURPLUS INCHES:					0				0			0		0
INCHES TO BE MITIGATED:					0				0			0		0
LESS INCHES MITIGATED W/ EXTG. TREES:					0				0			0		0
TOTAL SURPLUS INCHES:					0				0			0		0
TOTAL MITIGATED INCHES PROVIDED:					0				0			0		0
TOTAL MITIGATED INCHES REMAINING:					0				0					
PAYMENT TO TREE MITIGATION FUND:					\$0				\$0			\$0		
TOTAL PAYMENT TO TREE MITIGATION FUND FOR ROW:					\$0									

LEGEND:  
\*EXISTING TREES SCHEDULED TO REMAIN, BUT NOT INCLUDED IN TO REMAIN CALCULATIONS.  
\*\*EXISTING HERITAGE TREES TO RECEIVE ALTERNATIVE CONSTRUCTION METHODS  
\*\*\*INVASIVE TREE SPECIES, DOES NOT COUNT IN CALCULATIONS

(ROW) = TREES IN RIGHT OF WAY

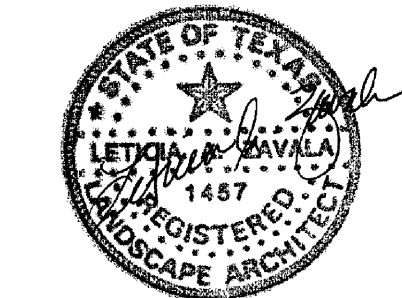
Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com



The Crecent Tree Master Plan  
I.H. 10 West  
Bexar County, Texas 78255

CONSULTANTS



08-15-22

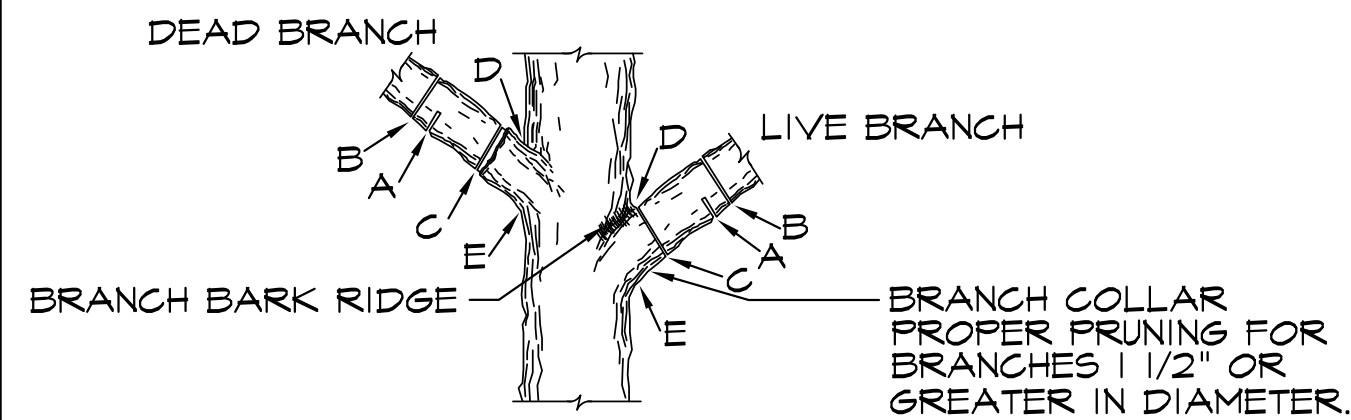
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revisions	
1 CITY CMTS	4-4-23
2 REVISIONS	4-26-23
4 CITY CMTS	9-21-23

job no: 21-1196.2PN  
date: 08-15-22  
drawn by: AM/LZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L2.2  
of:



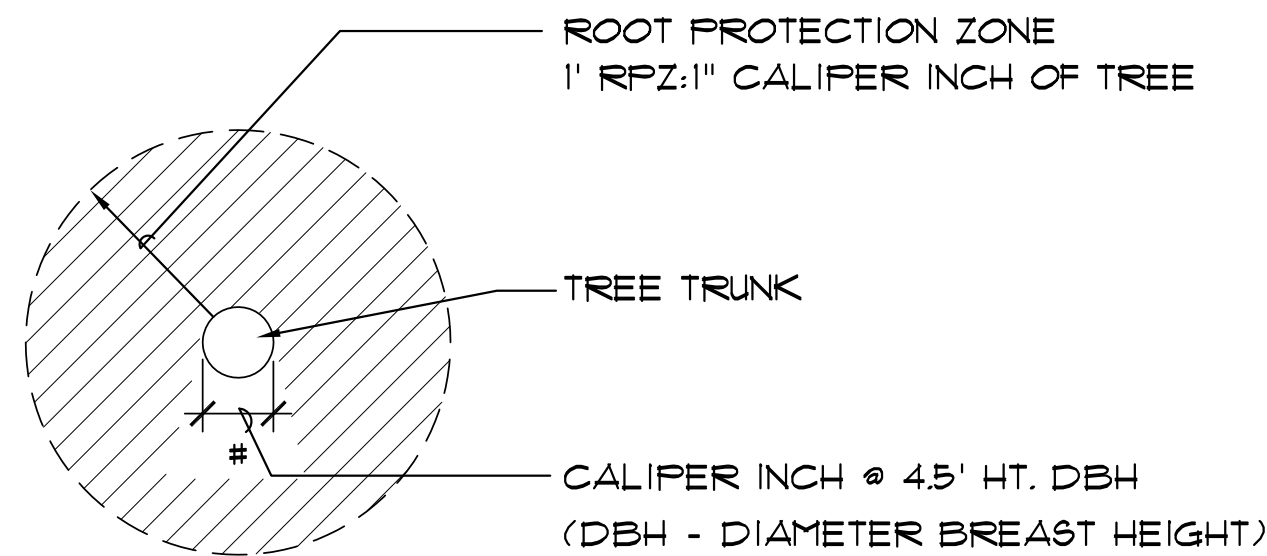


NOTE: DO NOT CUT FROM D to E.

- FIRST CUT - TO PREVENT THE BARK FROM BEING FEELED WHEN THE BRANCH FALLS.
- SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
- FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
- BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.

FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 30 MIN TO PREVENT THE SPREAD OF OAK WILT.

## 1 BRANCH PRUNING NTS

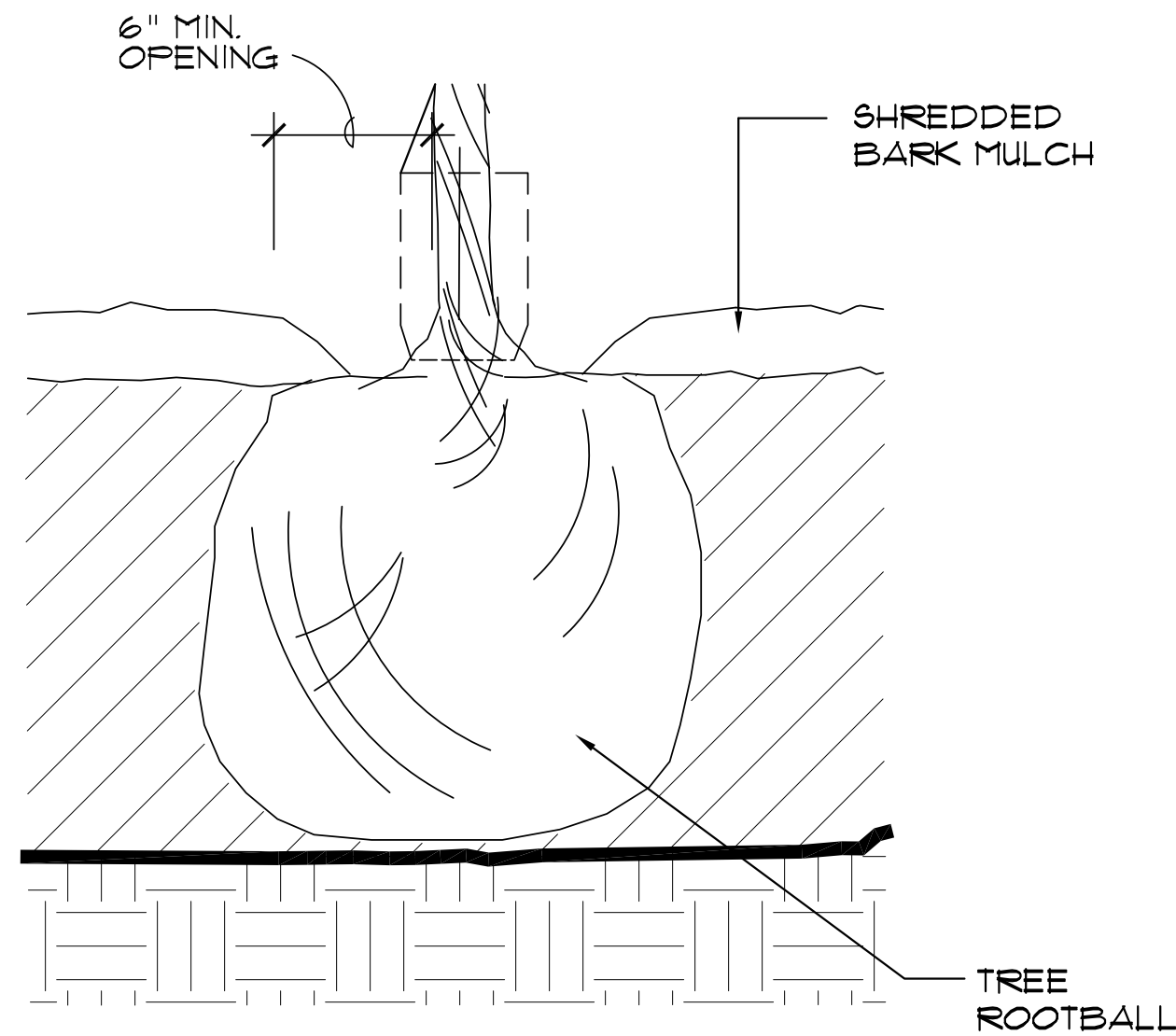


### PLAN VIEW

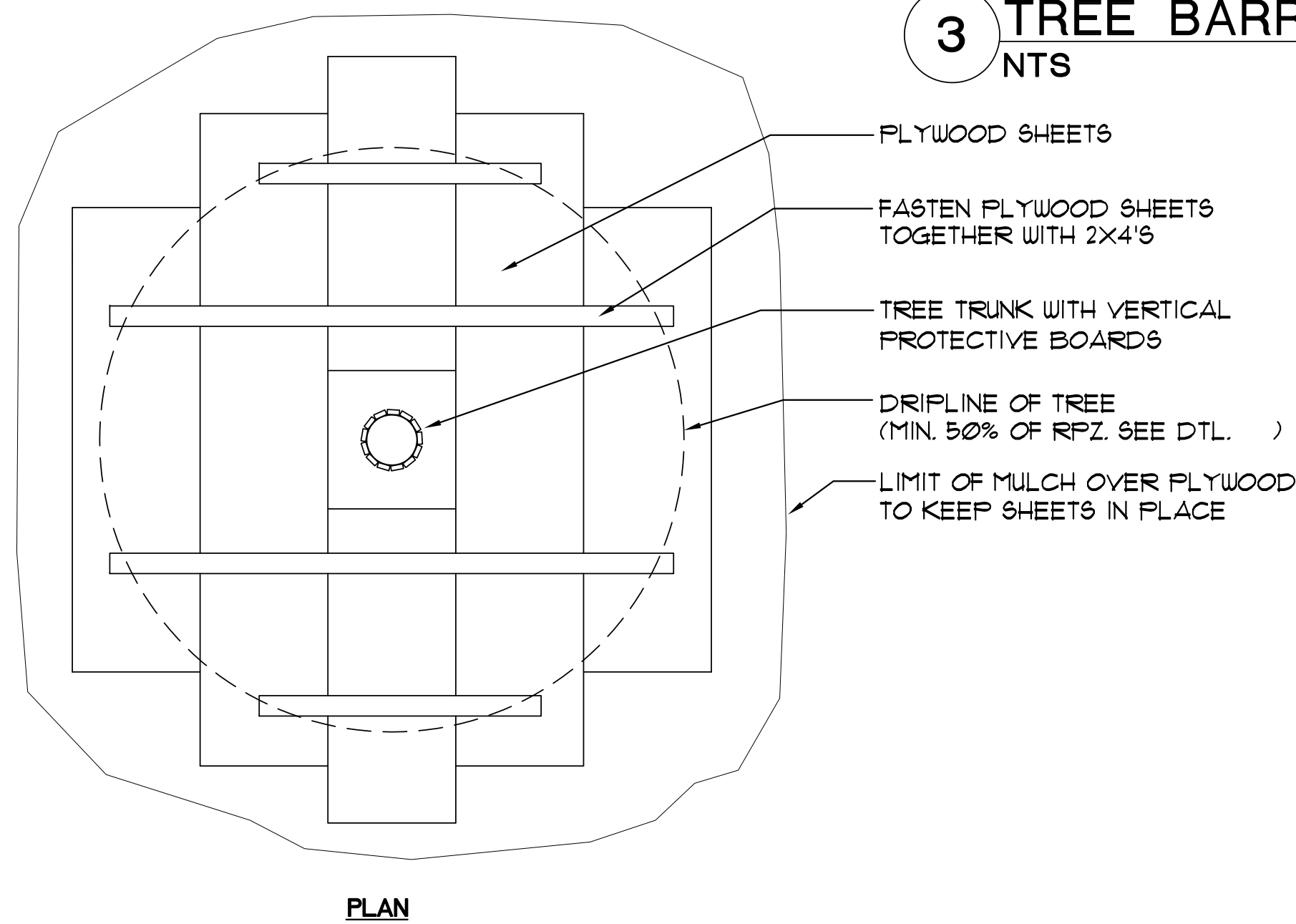
#### TREE PROTECTION NOTES:

- All trees to be preserved shall be protected against injury or damage, including soil compaction, breaking or skinning of roots, trunks, or branches during construction operations. A minimum of 50% of the RPZ shall be preserved at natural grade. No cutting, filling, trenching, root disturbance, soil disturbance, or construction impacts shall occur closer to the trunk than 1/2 the RPZ radius.
- Protect designated tree with a temporary min. 4' ht fencing. See Detail 3/L2.1.
- Erect temporary fencing before commencing site preparation work. Maintain fencing during full construction period. Remove fencing only when all hardscape construction work is completed.
- Protect all existing trees from disposal or storage of construction materials or vehicle parking. Protect trees from spreading of spoiled soil over RPZ.
- Install and maintain minimum of 6" mulch at RPZ. See Detail 3/L2.1.
- Repair preserved trees damaged by construction operations per arborist industry standards. All broken branches and exposed roots of existing trees shall be cut cleanly. All oak species must be painted with tree wound dressing within 30 minutes.
- The proposed finished grade and elevation within the RPZ of any existing tree shall not be raised or lowered more than three (3) inches. Finished grade and elevation above or below 3" shall included tree wells/retaining walls outside the RPZ.
- Replace trees scheduled to remain that are removed or damaged beyond repair by construction operations, as determined by Landscape Architect or City Representative, with tree(s) of similar size and species. Cost for tree replacement shall be determined in accordance with the Tree Evaluation Formula as described in "A Guide to the Professional Evaluation of Landscape Trees, Specimen Shrubs, and Evergreens" as published by the International Society of Arboriculture.
- All costs for repair and replacement of preserved trees damaged by construction operations or lack of adequate protection during construction shall be borne by Contractor.
- City of San Antonio Tree Maintenance license required for Contractor/Subcontractor employed to prune, treat or remove trees.
- A Certified Arborist is required for Contractor/Subcontractor employed to prune, treat or remove trees.

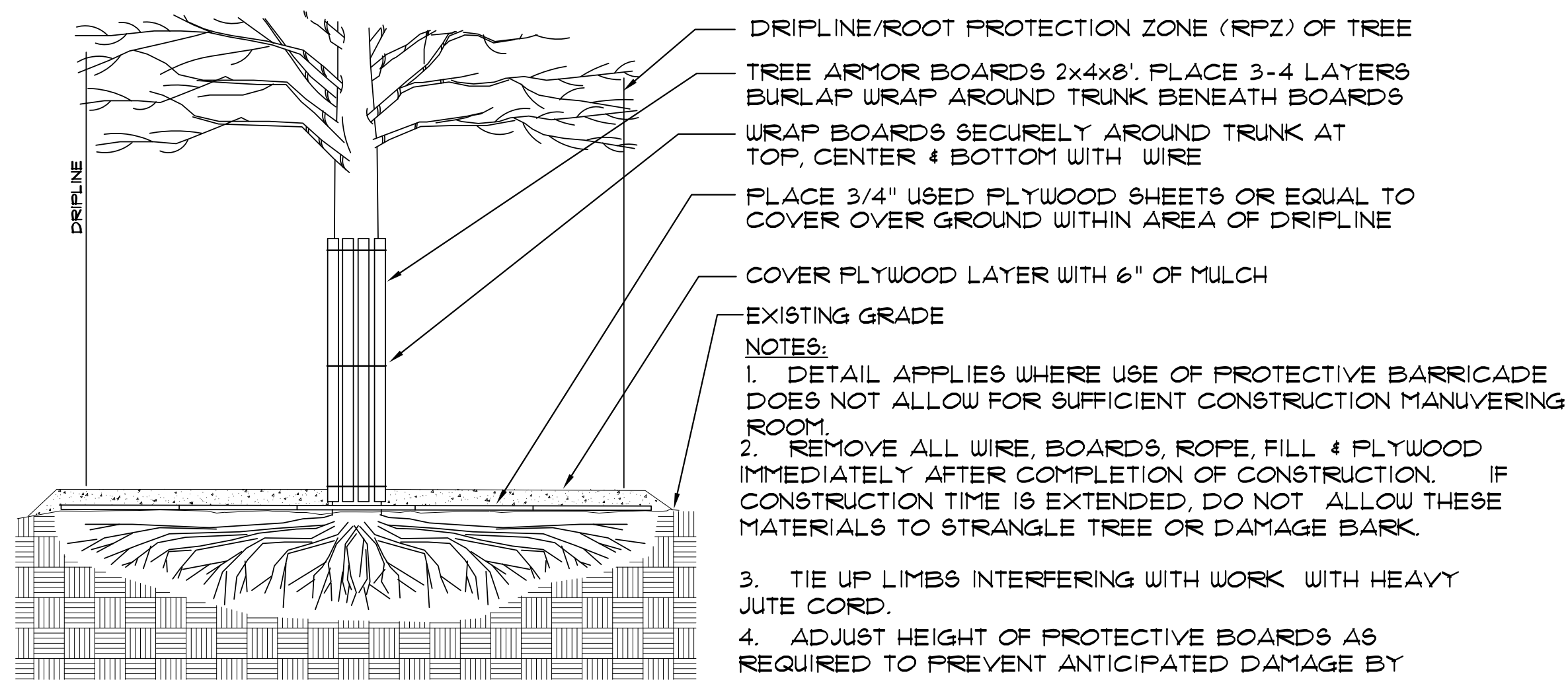
## 4 ROOT PROTECTION ZONE (RPZ) NTS



## 2 TREE MULCH DETAIL NTS

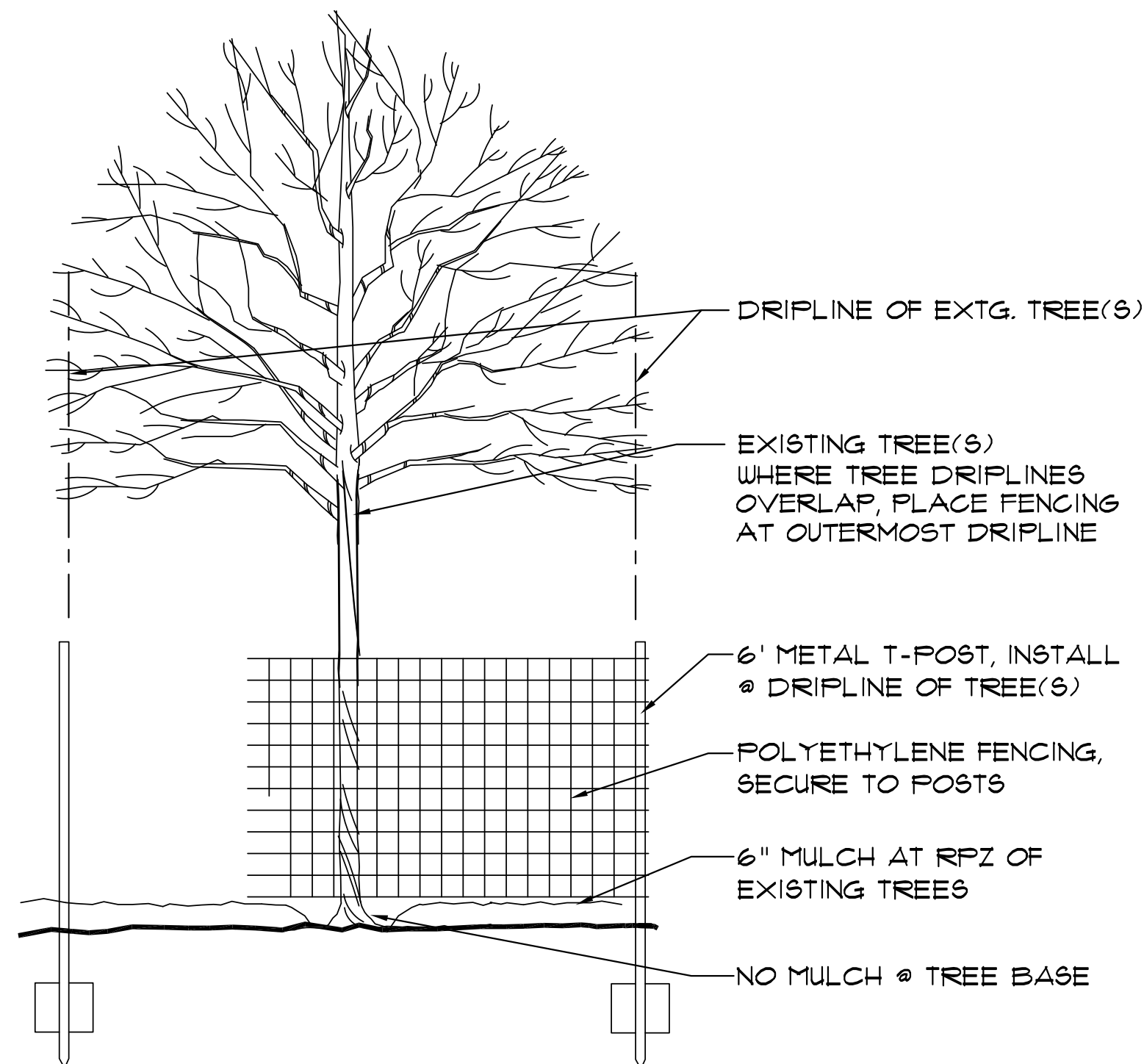


### PLAN

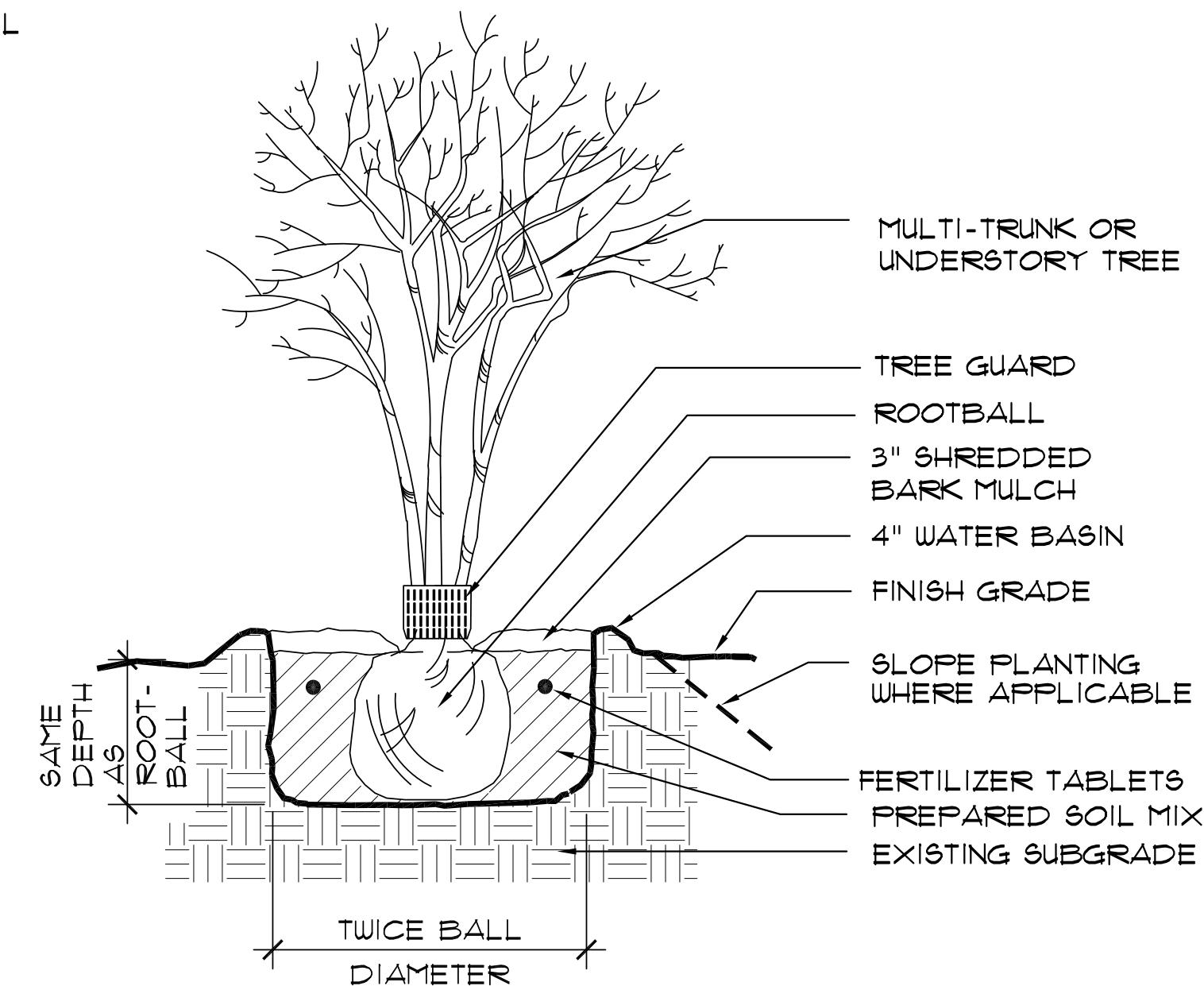


### ELEVATION

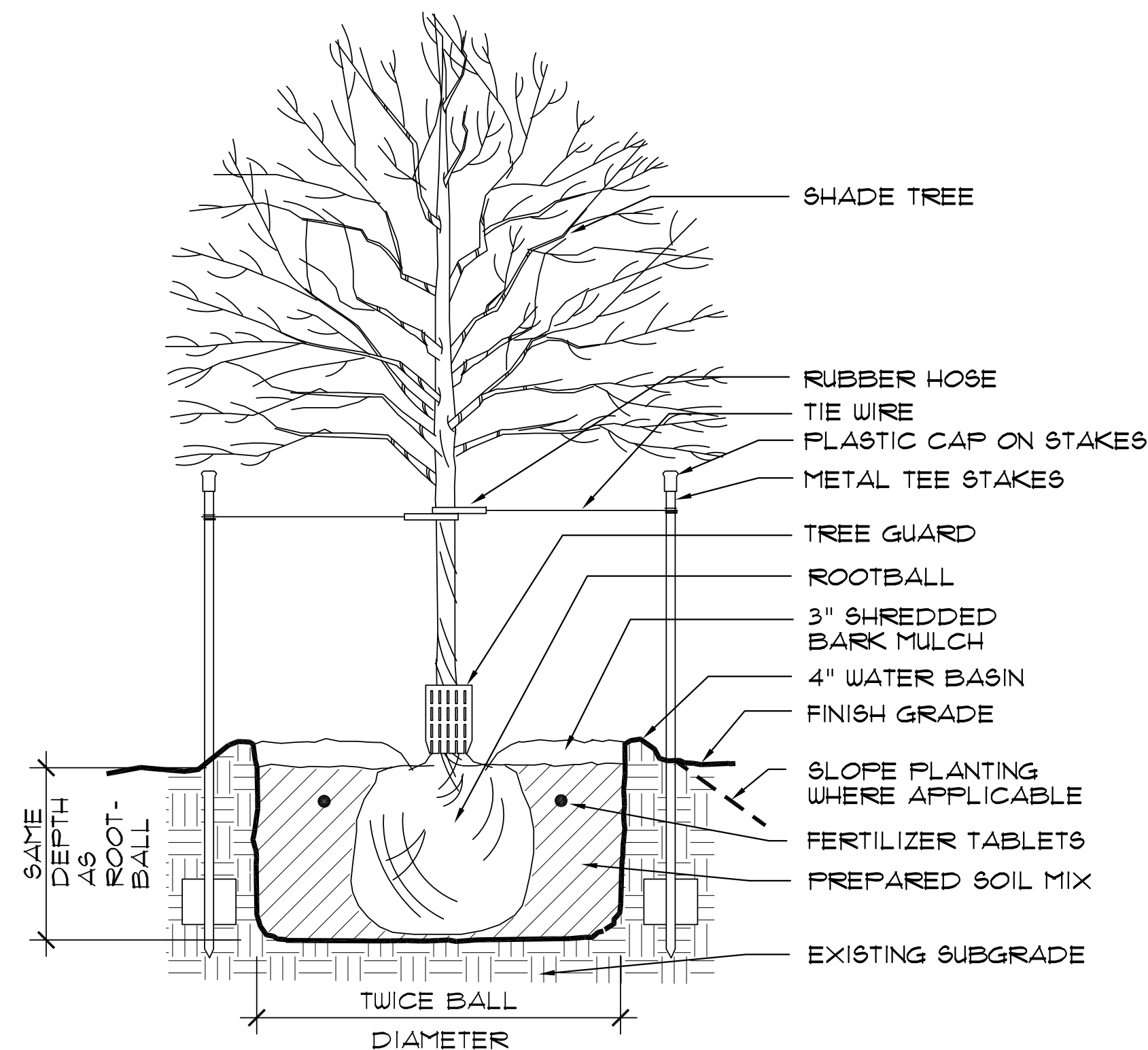
## 5 TREE ARMOR NTS



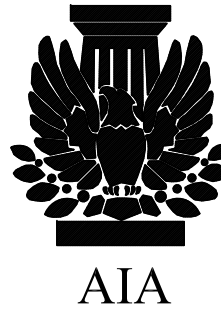
## 3 TREE BARRICADE FENCING NTS



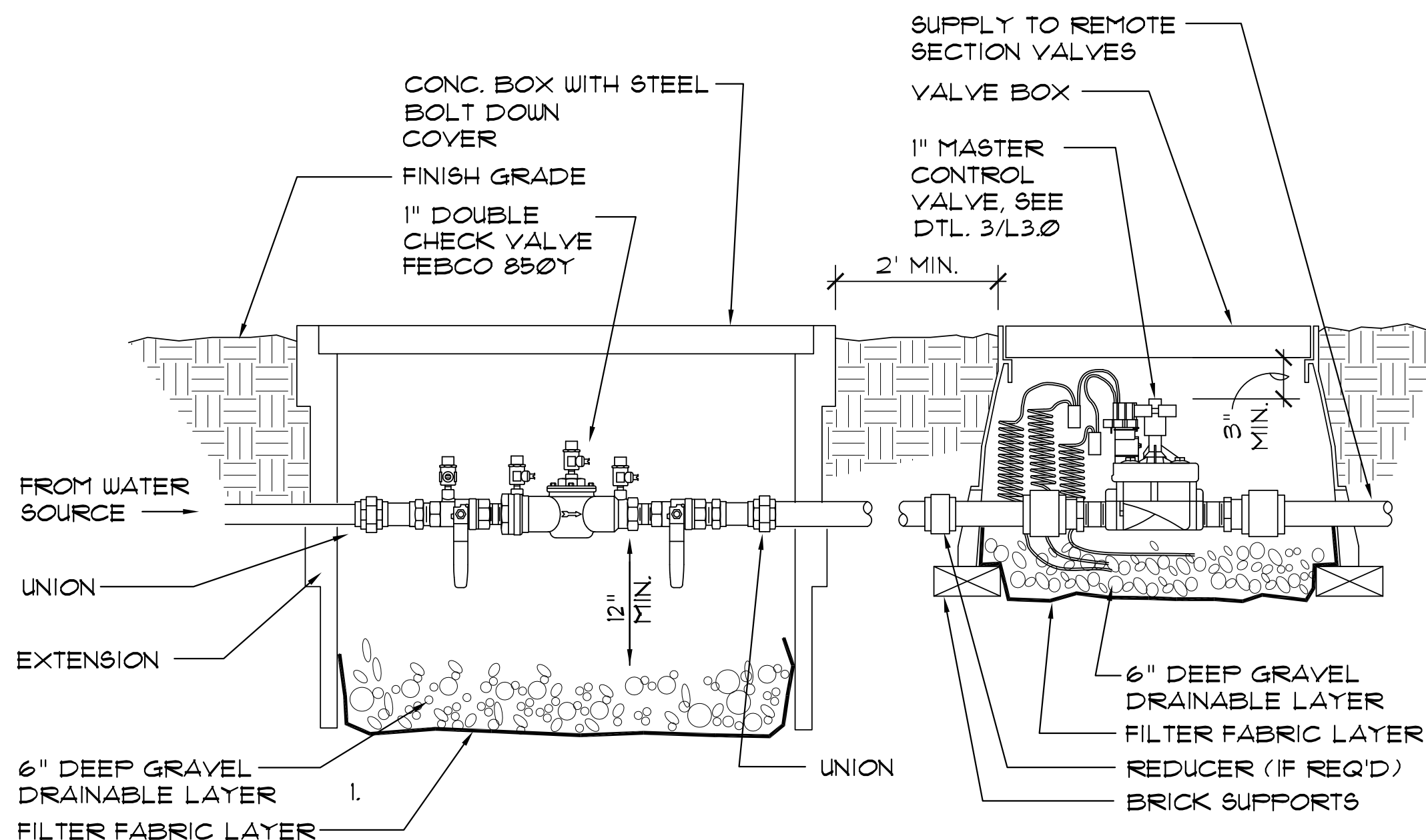
## 6 MULTI-TRUNK TREE PLANTING NTS



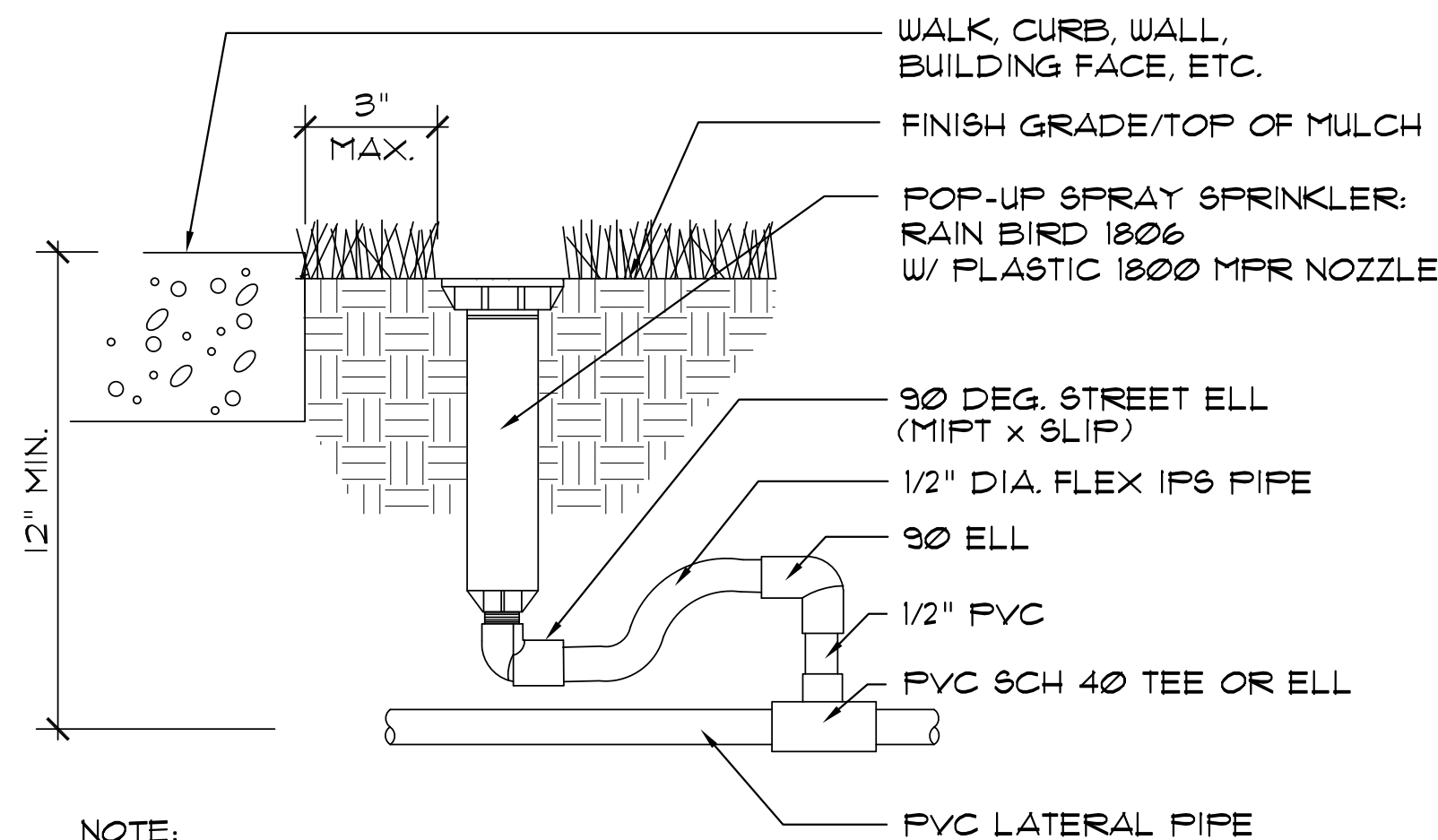
## 7 SHADE TREE PLANTING NTS





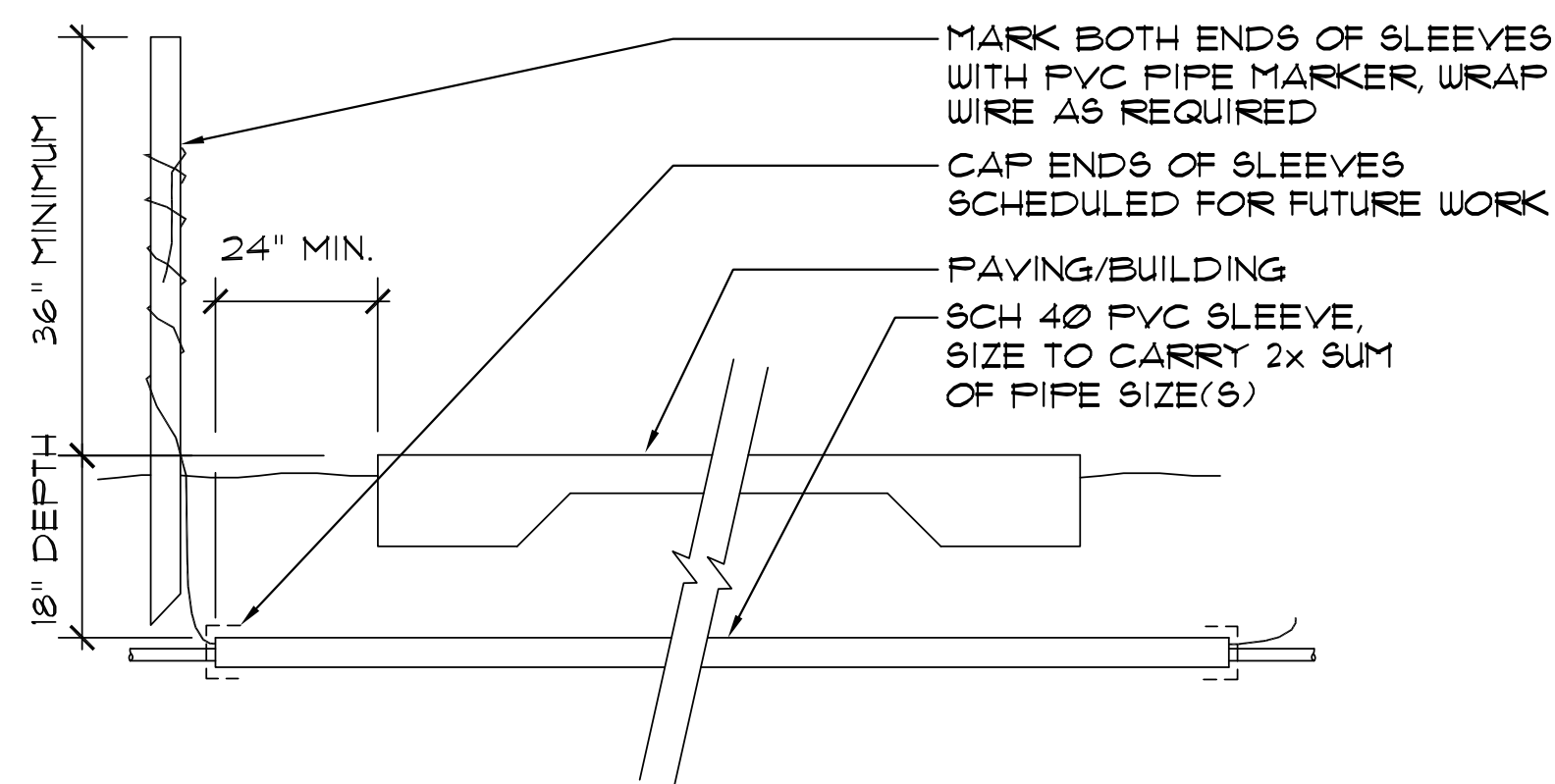


**1 IRRIGATION CONNECTION SEQUENCE**  
NTS

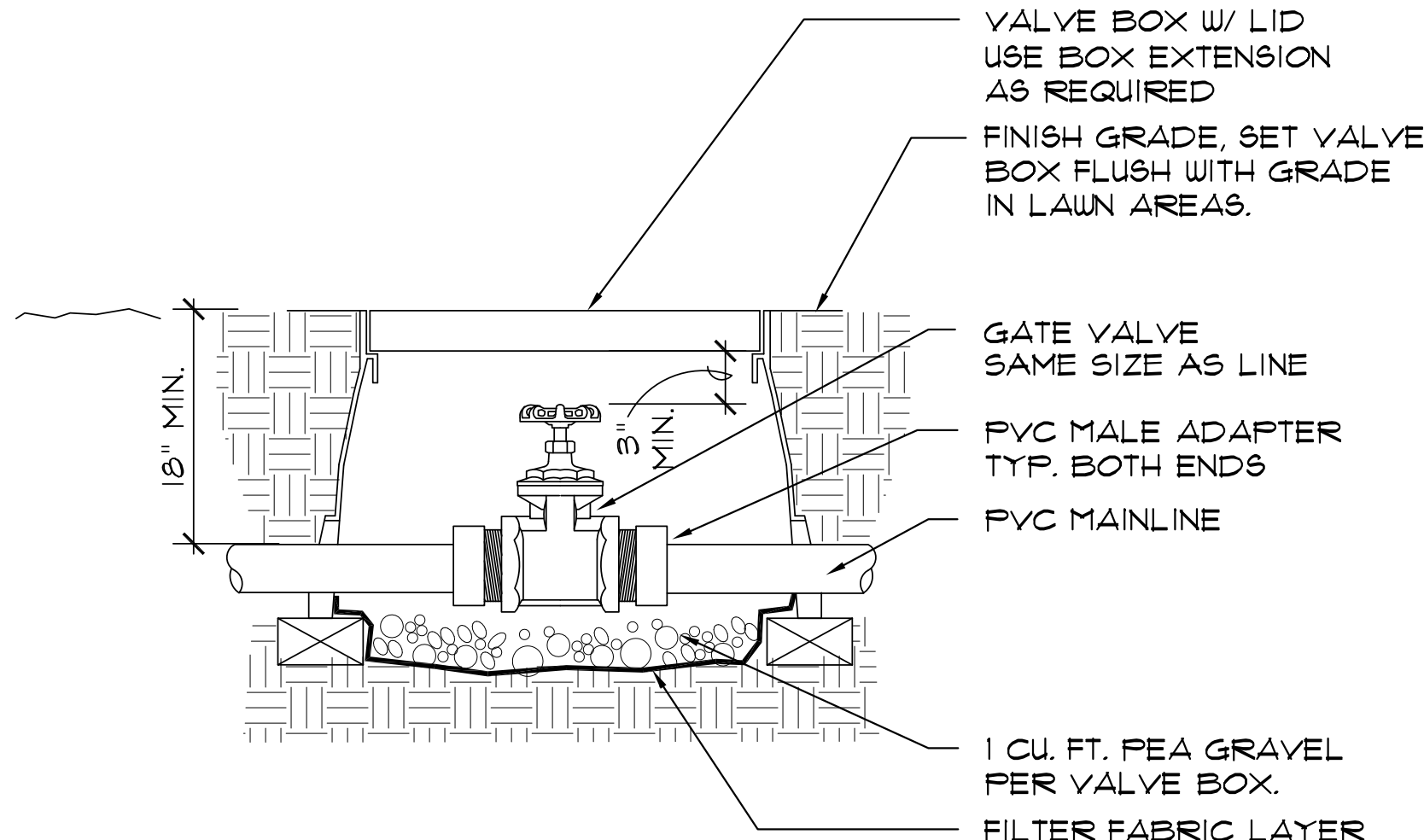


- NOTE:**
1. PROVIDE HEADS W/ FACTORY INSTALLED DRAIN CHECK VALVE AT EDGES OF ALL PAVING/CURBS AND WHERE LOW HEAD DRAINAGE OCCURS.
  2. PROVIDE VARIABLE ARC SPRAY NOZZLES WHERE HEADS ARE LOCATED NEXT TO A BUILDING.

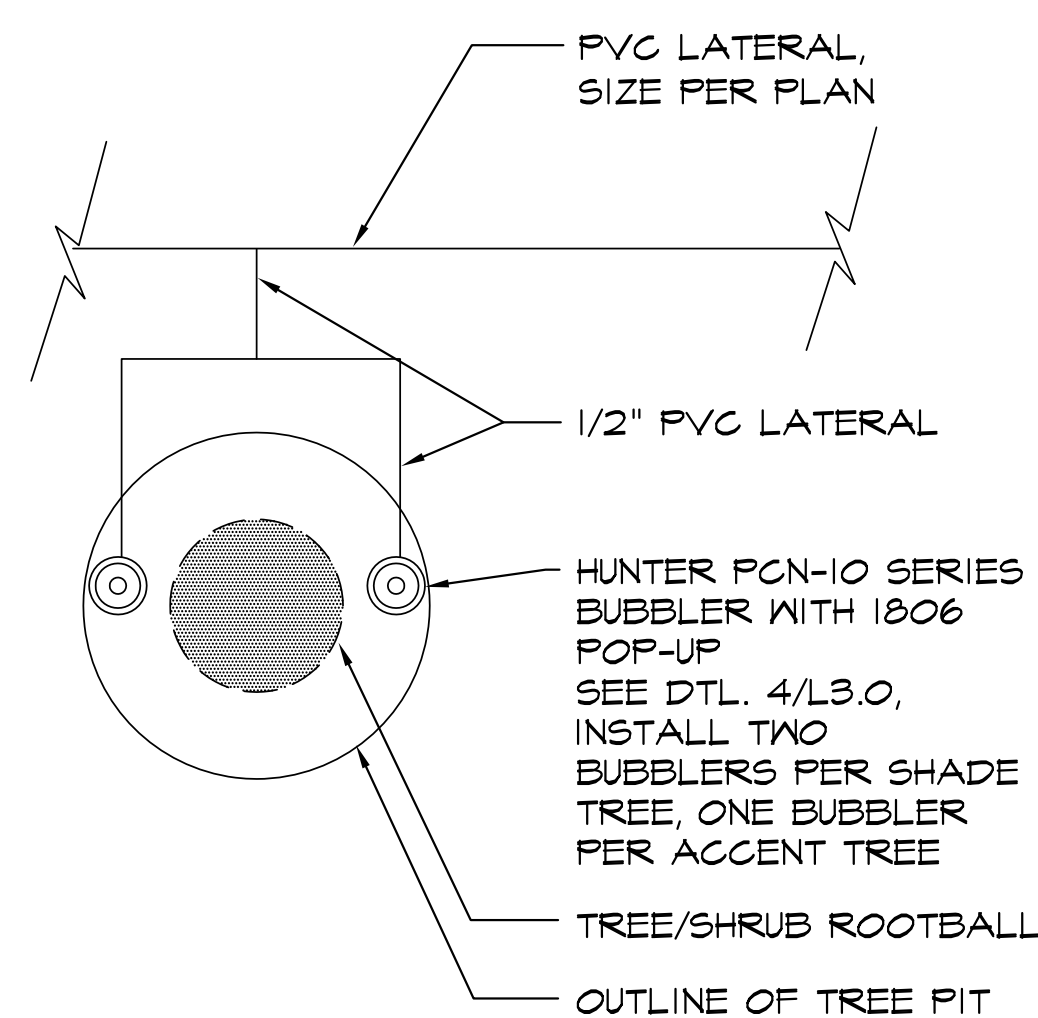
**4 POP-UP SPRAY HEAD**  
NTS



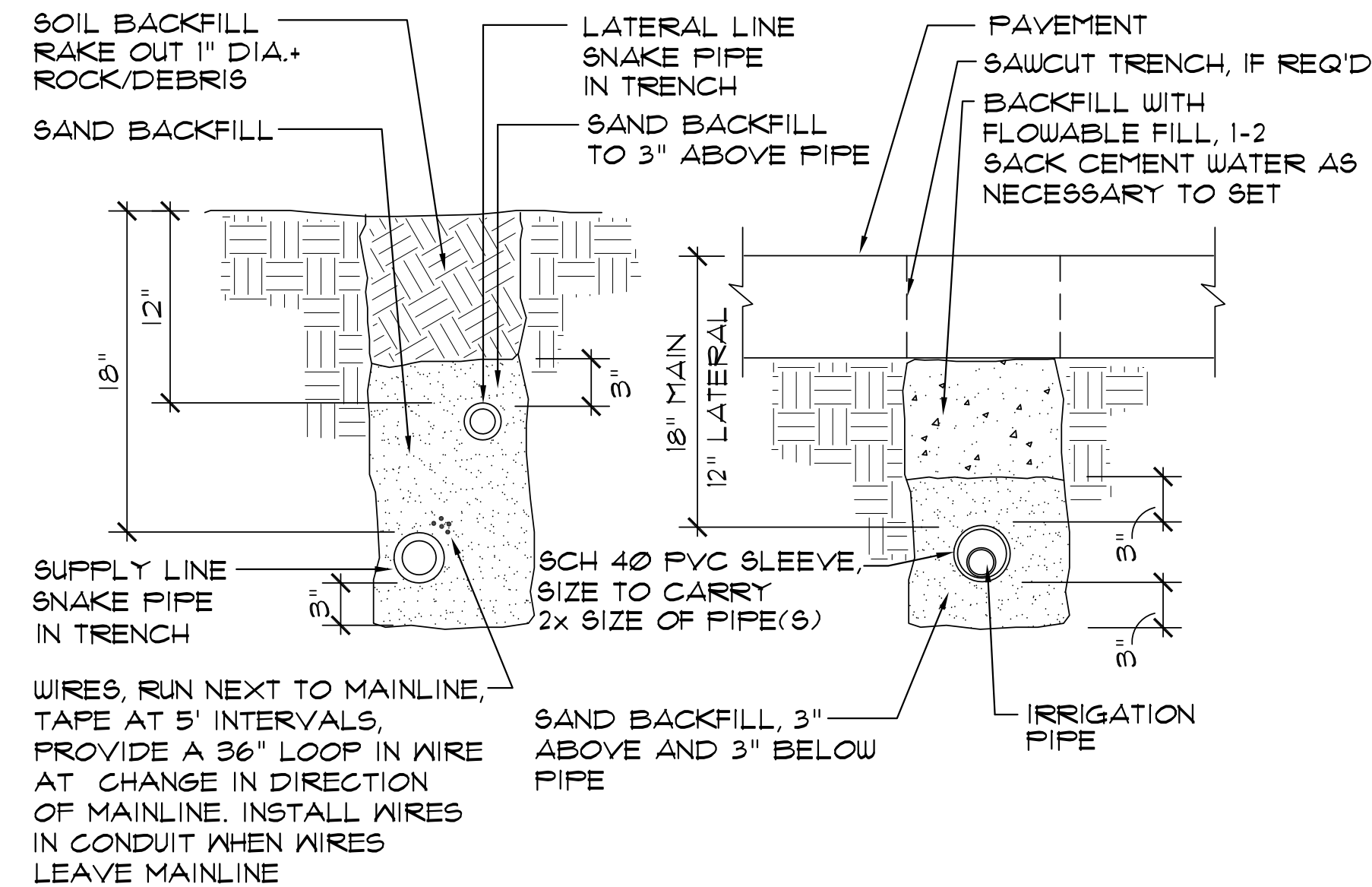
**7 IRRIGATION SLEEVE DETAIL**  
NTS



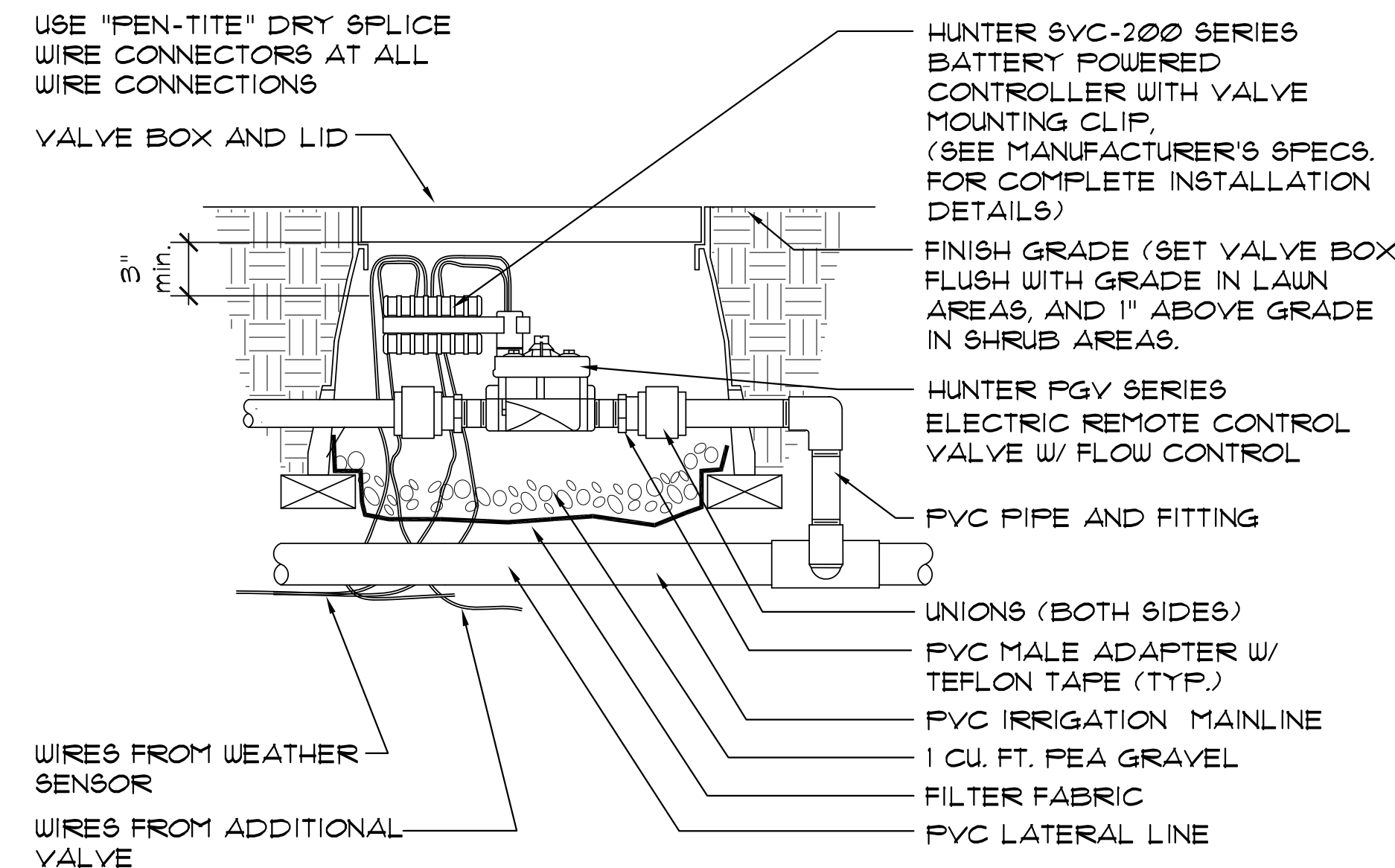
**2 GATE VALVE**  
NTS



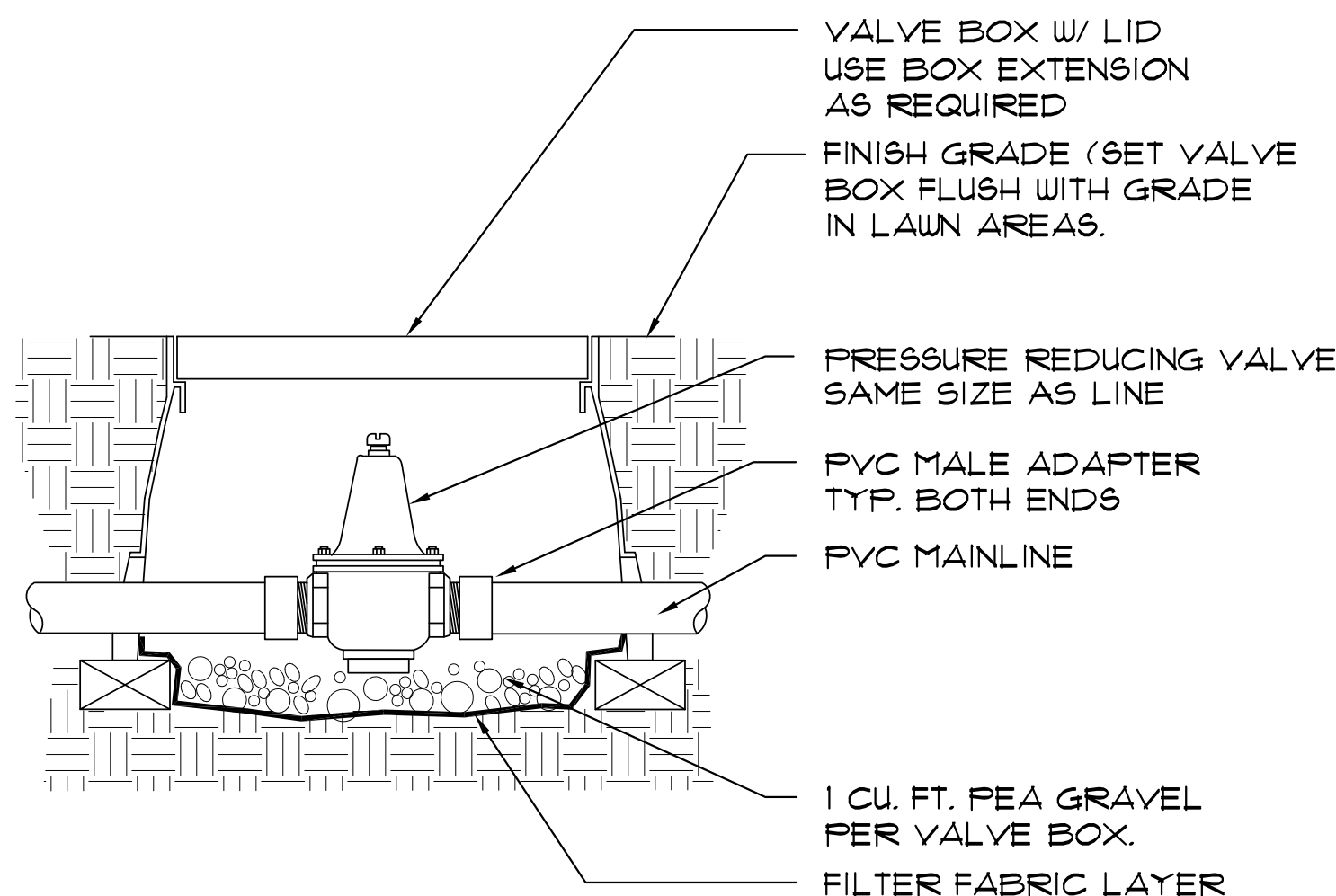
**5 TREE BUBBLER**  
NTS



**6 TYP. TRENCH DETAILS**  
NTS



**3 BATTERY OPERATED VALVE**  
NTS



**8 PRESSURE REGULATOR VALVE**  
NTS

Daniel T. Muzquiz  
204 Sunway Drive  
San Antonio, Texas 78232  
Tel. 210.340.0077

dan.muzquiz@dtmarchitects.com

NCARB CERTIFIED



The Crescent Tree Master Plan  
I.H. 10 West  
Bexar County, Texas 78255

CONSULTANTS



04-04-23

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revisions

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date: 08-15-22  
drawn by: AM/LZ  
checked by: LZ  
proj. arch.: LZ  
sheet

L3.0

of:

**cfz** C•F•Z Group LLC  
Landscape Architecture  
& Planning  
7410 John Smith Drive, Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax  
S:\22-1309\1\21309L3.DWG