



**SAN ANTONIO WATER SYSTEM**  
**CHILLED WATER PLANT IMPROVEMENTS PROJECT**

**SAWS JOB NUMBER 15-7502**

**ADDENDUM NO. 2**  
**December 17, 2015**

**To Respondent of Record:**

This addendum, applicable to work referenced above, is an amendment to the bidding documents and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the addendum number and issue date in the space provided in submitted copies of the proposal.

**A. Questions and Answers**

Q1. Invitation requires that sealed bids be received until 10:00 AM, December 30th, 2015. Can this bid date be extended to another time beyond the week between Christmas and New Years Eve?

A1. *No.*

Q2. Bid Proposal Page BP-3 requires that the Undersigned agrees to .....substantially complete the work in 50 calendar days. Please clarify the proposed project timeline that allows for all requirements of the contract be fulfilled within such a short duration.

A2. *All construction activities shall be completed within 60 calendar days.*

Q3. Specification 093000 is missing per the Table of Contents for the Chilled Water Plant Improvements.

A3. *Specification 093000 is not part of the project. Table of Contents was revised by Addendum 1.*

Q4. Is the completion time for this project 60 days?

A4. *Yes. See response to question #2.*

Q5. Please show how contractor is to access the site?

A5. *Contractor has two options to enter the construction site. Either through the gate located at the corner of Bowie St. and Market St. or through the main entrance located off Commerce St.*

Q6. Will an area be available for contractor parking during construction?

A6. *Yes. The contractor could use the existing parking lot next to the Chilled Water Plant.*

Q7. Will there be an area available for a contractor laydown yard?

*A7. Yes. The contractor could use a portion of the existing parking lot next to the Chilled Water Plant as a laydown area.*

Q8. The construction duration of 60 days is not sufficient to complete the scope of this project. There is a lot of work to be completed by multiple trades in a small area on an existing site. Along with the possibility that piping and electrical conduit may need to be rerouted as existing utilities are discovered. A construction duration of 120days would be more achievable for this project.

*A8. See response to question #2.*

Q9. No valves are shown on any of the piping, will any valves be required?

*A9. With regard to plumbing: Valves are required at the pump skid and at the filter/chlorinator skid as indicated on Details 2 and 3 on Sheet P2.1. The valves will need to be provided if the valves are not included as part of the skid assemblies.*

*With regard to irrigation: Valves are located on the irrigation plan sheets (L1.0-L1.3). Details for valves are located on the irrigation detail sheets (L2.1 and L2.2 [previously L5.1])*

## **B. Modifications to Drawings**

1. Sheet L1.2 (Irrigation Plan)

Replace previously issued sheet, dated 12/11/2015, with attached revised sheet dated **12/17/2015**

2. Sheet L1.3 (Irrigation Plan)

Replace previously issued sheet, dated 12/11/2015, with attached revised sheet dated **12/17/2015**

3. Sheet L5.1 (Irrigation details)

Replace previously issued irrigation detail sheet L5.1, dated 12/11/2015, with attached revised irrigation detail sheet L2.2 dated **12/17/2015**

4. Sheet L4.1 (Site Plan)

Replace previously issued site plan sheet, dated 12/11/2015, with attached revised sheet dated **12/17/2015**

5. Sheet L4.2 (Site Plan)

Replace previously issued site plan sheet, dated 12/11/2015, with attached revised sheet dated **12/17/2015**

6. Sheet L5.3 (Details)

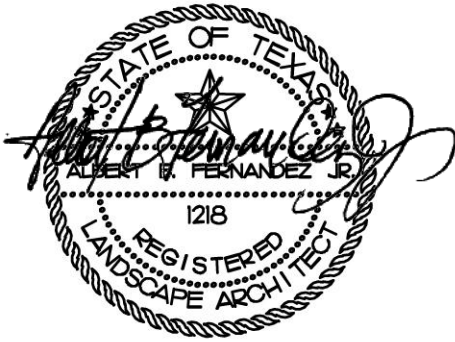
Replace previously issued detail sheet, dated 12/11/2015, with attached revised sheet dated **12/17/2015**

7. Sheet E1.1 (Site Lighting Plan)

See attached addendum form from Alderson & Associates

**ACKNOWLEDGMENT BY BIDDER**

Each respondent is requested to acknowledge receipt of this Addendum No. 2 by his/her signature affixed hereto and to file same with and attach to his/her proposal.



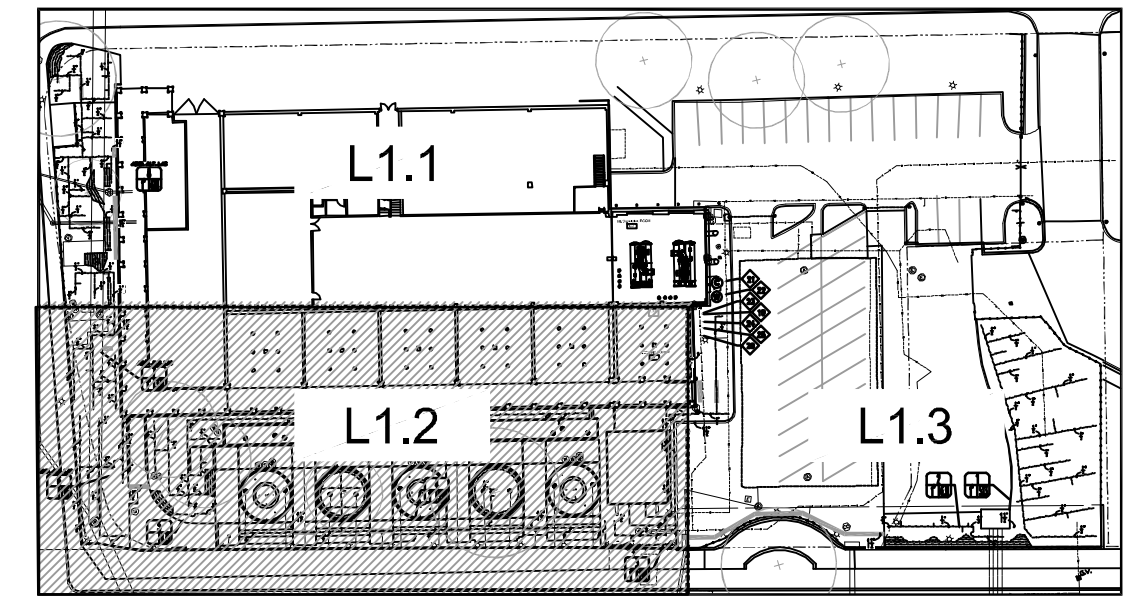
Albert Fernandez  
#1218  
CFZ Group, LLC  
Landscape Architect

The undersigned acknowledges receipt of this Addendum No. 2 and the proposal submitted herewith is in accordance with the information and stipulations set forth.

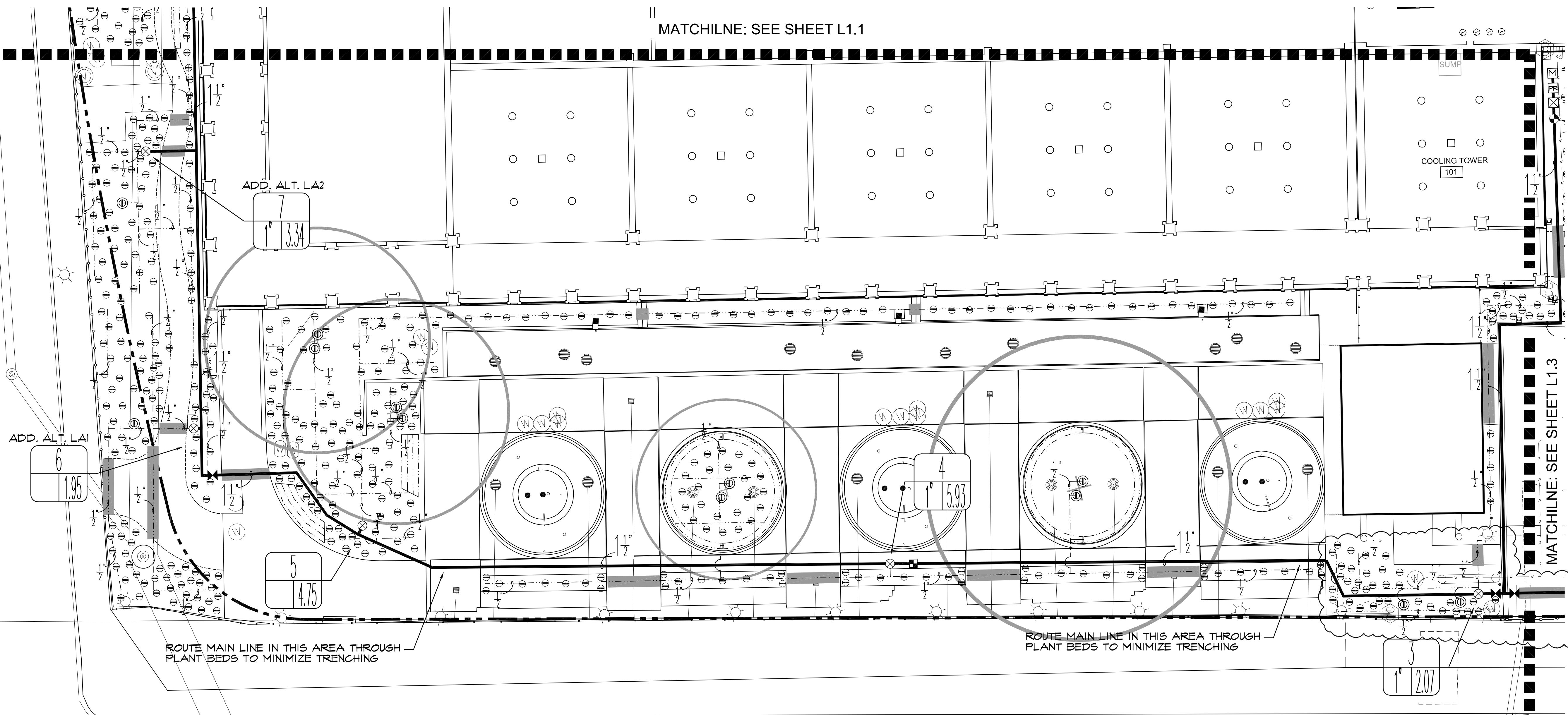
\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Bidder

MATCHLINE: SEE SHEET L1.1



KEY MAP  
(NOT TO SCALE)



ROUTE MAIN LINE IN THIS AREA THROUGH PLANT BEDS TO MINIMIZE TRENCHING

ROUTE MAIN LINE IN THIS AREA THROUGH PLANT BEDS TO MINIMIZE TRENCHING

**1 ENLARGED IRRIGATION PLAN**  
1"=10'-0"

**LEGEND**

- ⊙ TREE DRIP BUBBLER ASSEMBLY, SEE DTL. 9/L2.2
- ⊙ DRIP EMITTER, SEE DTL. 3/L2.2
- ⊙ DRIP REMOTE CONTROL VALVE, SEE DTL. 2/L2.2
- ⊙ MASTER CONTROL VALVE, SEE DTL. 7/L2.1
- ⊙ MANUAL VALVE, SEE DTL. 2/L2.1
- ⊙ QUICK COUPLER, SEE DTL. 8/L2.1
- ⊙ REDUCED PRESSURE BACKFLOW PREVENTER, SEE DTL. 1/L2.1
- ⊙ PRESSURE REDUCING VALVE, SEE DTL. 10/L2.1
- ⊙ 1" IRRIGATION SUBMETER, SEE DTL. 3/L2.1
- LATERAL PIPING, SEE DTL. 9/L2.1
- - - DRIP LINE, SEE DTL. 9/L2.1
- - - SUPPLY LINE, SEE DTL. 9/L2.1
- - - EXISTING SUPPLY LINE
- ⊙ IRRIGATION SLEEVE, SEE DTL. 10/L2.2
- ⊙ CONTROLLER, SEE DTL. 4/L2.1
- ⊙ WEATHER SENSORS, SEE DTL. 5/L2.1
- BED EDGER, SEE SHEET L5.1
- 17 VALVE DESIGNATION
- 147286 GALLONS PER MINUTE
- VALVE SIZE

**IRRIGATION NOTES (Keyed Note)**

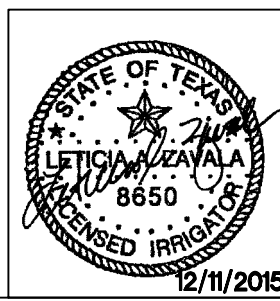
1. Irrigation contractor shall be responsible for making himself familiar with the specifications and all submittal requirements. It is the responsibility of the Irrigation contractor to notify the Landscape Architect for site inspections as specified in the specifications. Failure to notify the Landscape 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.
2. The irrigation contractor is required by law to notify Texas One Call (800-245-4545) and (800) DIG TESS (800-344-8311) 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.
3. 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.
4. Irrigation contractor shall be responsible for any coordination with other contractors as required to accomplish irrigation installation.
5. 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.
6. 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.
7. 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 8ch 40 PVC, sized twice the diameter of pipe or combination of pipes enclosed within the sleeve.
8. 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(XI) 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.
9. 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, 344.12-344.11.
10. If actual site static pressure exceeds design pressure by 10%, a pressure reducing valve shall be installed. See specifications.
11. Pressure at any point within a zone shall not vary by more than 10% from the design sprinkler operating pressure. See specifications for Testing.
12. All irrigation work shall be installed under the supervision of a licensed (in the State of Texas) Irrigation contractor.
13. Obtain coverage test approval from Landscape Architect or Owner's Representative prior to planting, sodding or seeding.
14. All undesignated end lateral piping shall be 1/2".
15. Irrigation Contractor is to provide 15-emitters and associated fittings and piping for use on irrigation zone(s) as directed in the field by Landscape Architect.
16. Refer to civil dugs for grading plan.
17. Statement of Area Coverage: Drawing does not provide for 100% coverage of the site. See plans and specifications for areas to be irrigated.
18. Irrigation system is a reuse water system. Install purple pipe, heads, valve box covers and signage per specifications.
19. New 1" irrigation submeter to be supplied by existing reuse water line. See dtl. 3/L2.1
20. 1-1/2" Master control valve. See dtl. 7/L2.1.
21. Locate controller in Mechanical Room. Contractor is responsible for coordinating with other trades as required to provide power.
22. Locate weather sensors at outside of Mechanical Room.
23. Point of connection
23. Pressure reducing valve, see dtl. 10/L2.1
23. Reduced pressure backflow preventer, see dtl. 1/L2.1

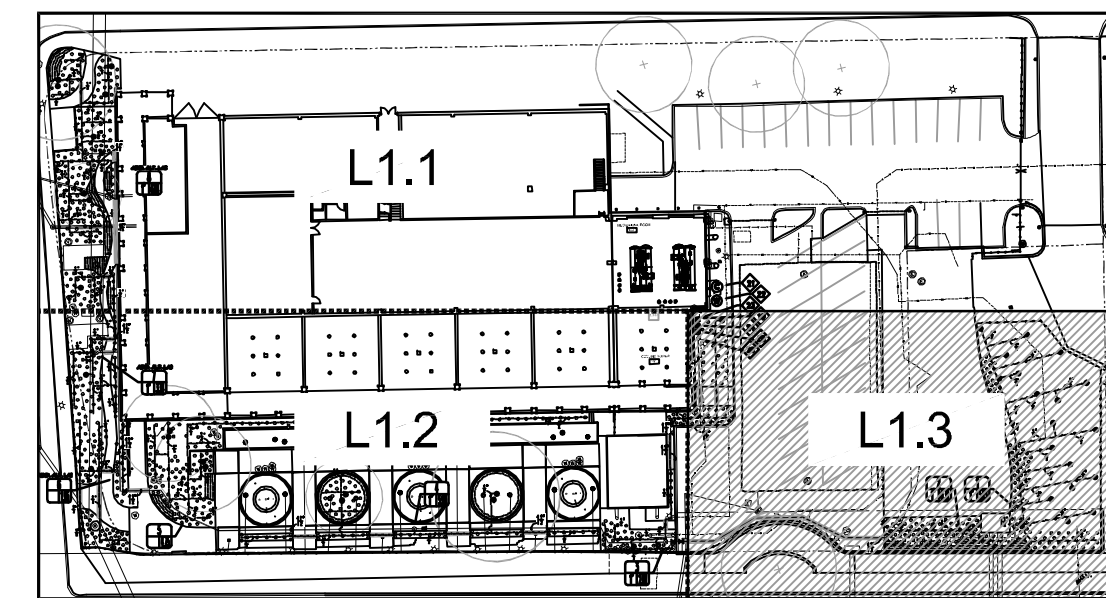
**C•F•Z Group LLC**  
Collins • Fernandez • Zavala  
Landscape Architecture  
& Planning  
7410 John Smith Dr., Suite 208  
San Antonio, Texas 78229  
210-366-1911/210-366-0044 fax

No.	Revision	Drawn	Approved	Date
2	ADDENDUM 2	SDT	ABFJR	12/17/15

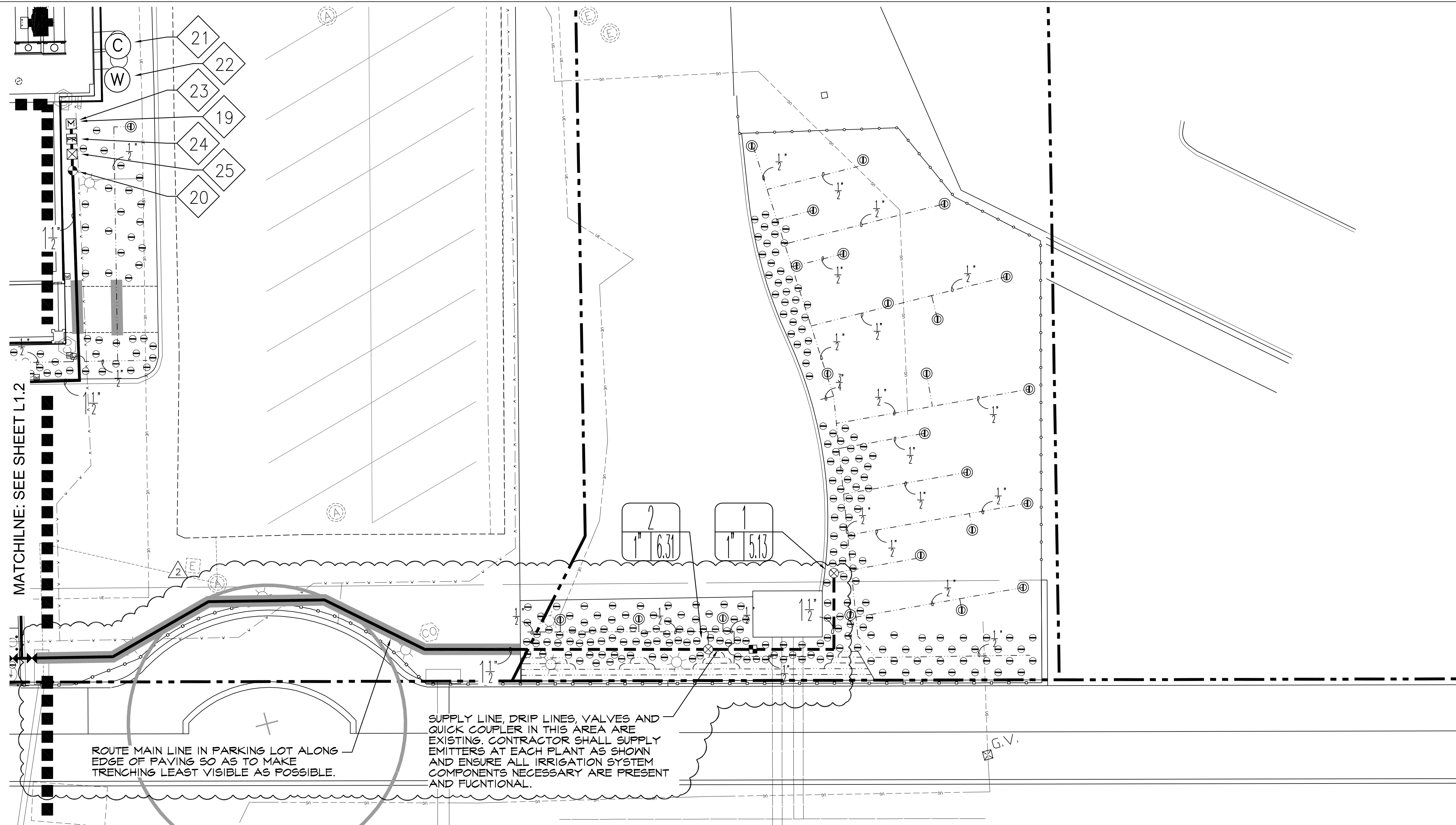
**CHILLED WATER  
PLANT IMPROVEMENTS  
IRRIGATION PLAN**

DEVELOPER: \_\_\_\_\_  
CONT. BUDGET PROJ.  
SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_  
MAP No. \_\_\_\_\_ SHEET  
SECT. No. \_\_\_\_\_ L12  
DR. SDT CK. ABF JOB No. 15-958 Of 20





KEY MAP  
(NOT TO SCALE)



**1 ENLARGED IRRIGATION PLAN**  
1"=10'-0"

**LEGEND**

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- BED EDGER, SEE SHEET L5.1
- 17 VALVE DESIGNATION
- 17/29.6 GALLONS PER MINUTE
- VALVE SIZE

**IRRIGATION NOTES (⊕ - Keyed Note)**

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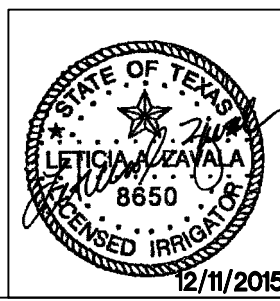
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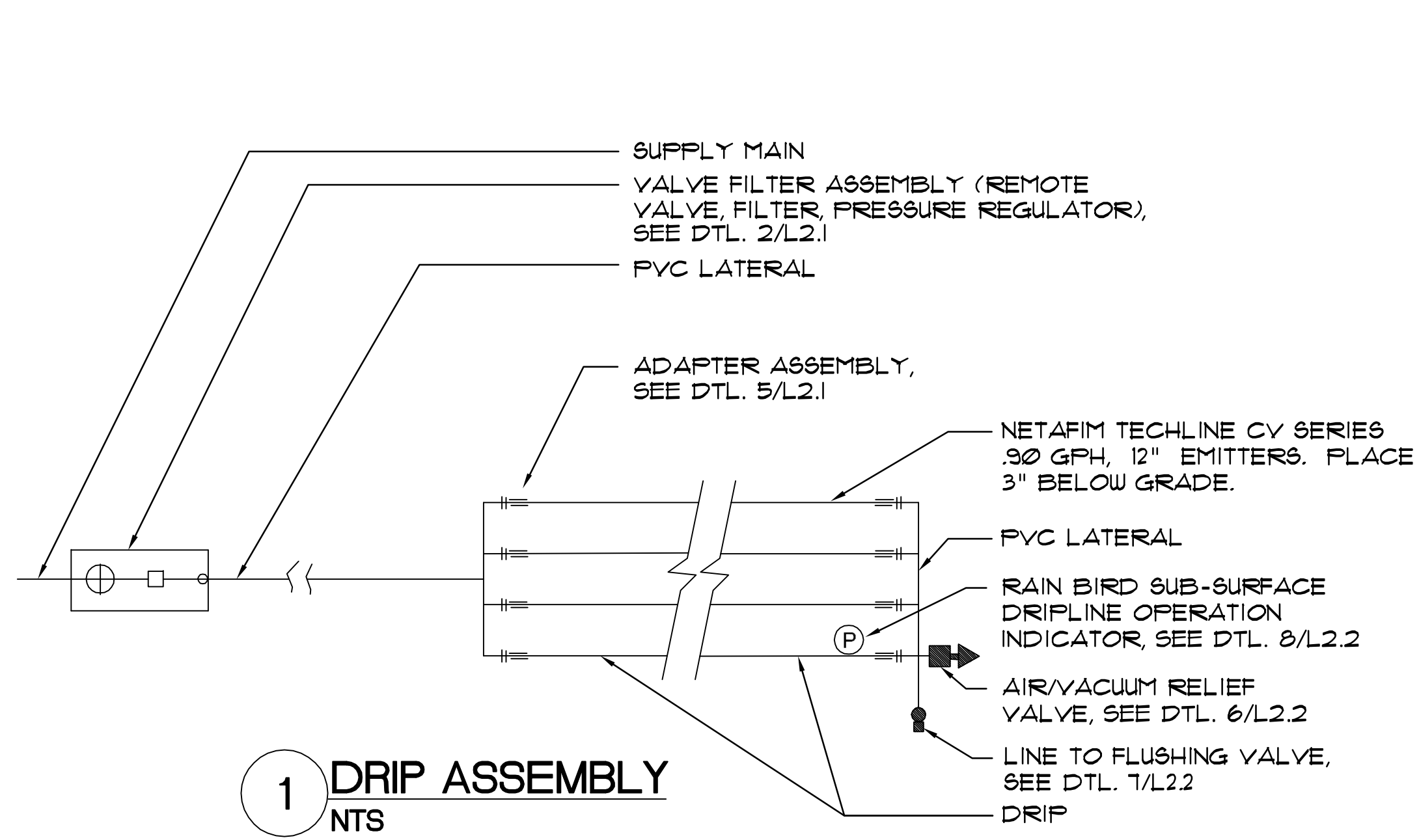
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No.	Revision	Drawn	Approved	Date
2	ADDENDUM 2	SDT	ABFJR	2/17/19

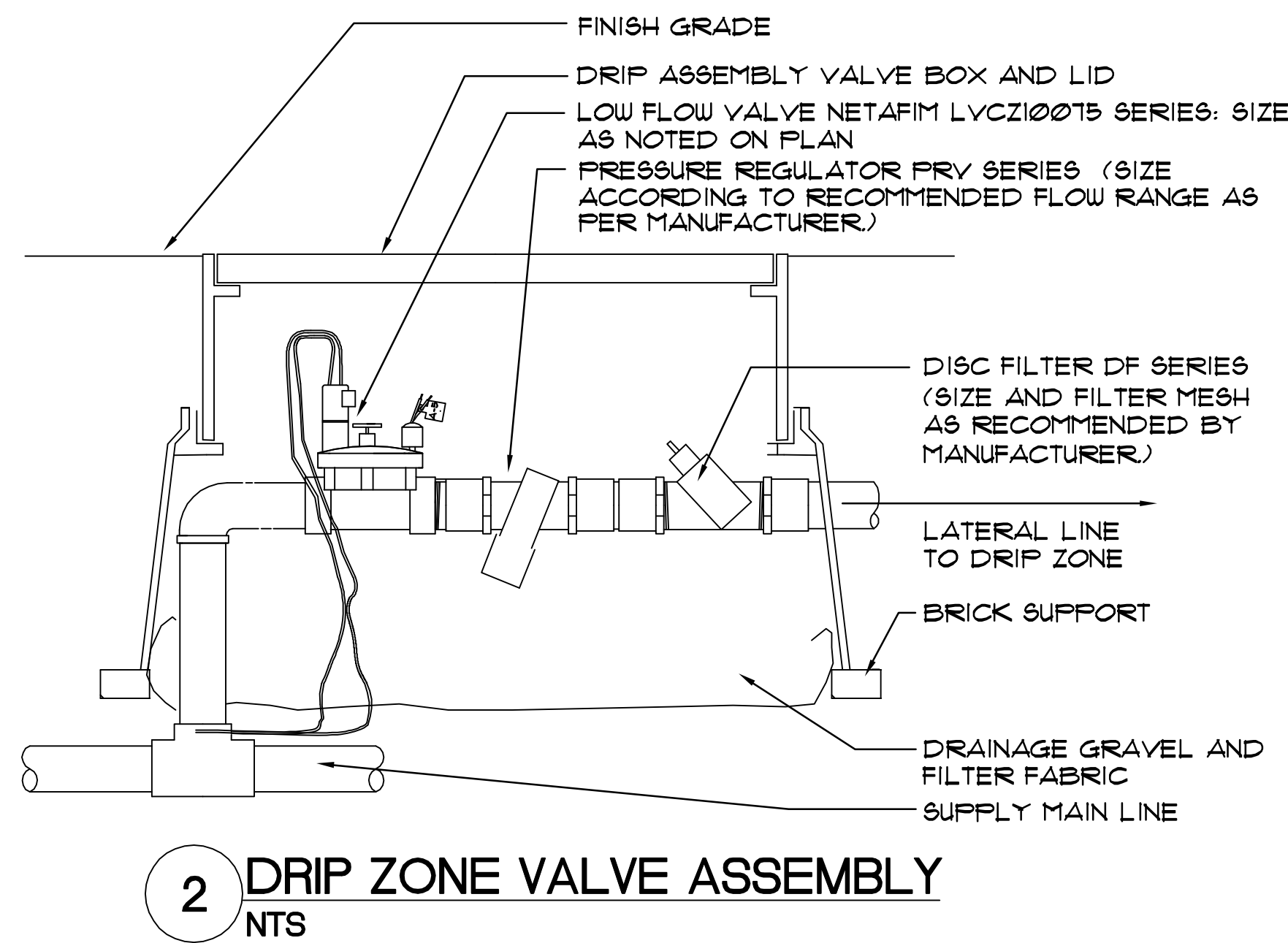
**CHILLED WATER  
PLANT IMPROVEMENTS  
IRRIGATION PLAN**

DEVELOPER: \_\_\_\_\_  
CONT. [BUDGET PROJ.]  
SUBMITTED \_\_\_\_\_  
APPROVED \_\_\_\_\_  
MAP No. \_\_\_\_\_ SHEET  
SECT. No. \_\_\_\_\_ L13  
DR. SDT CK. ABF JOB No. 15-958 Of 20

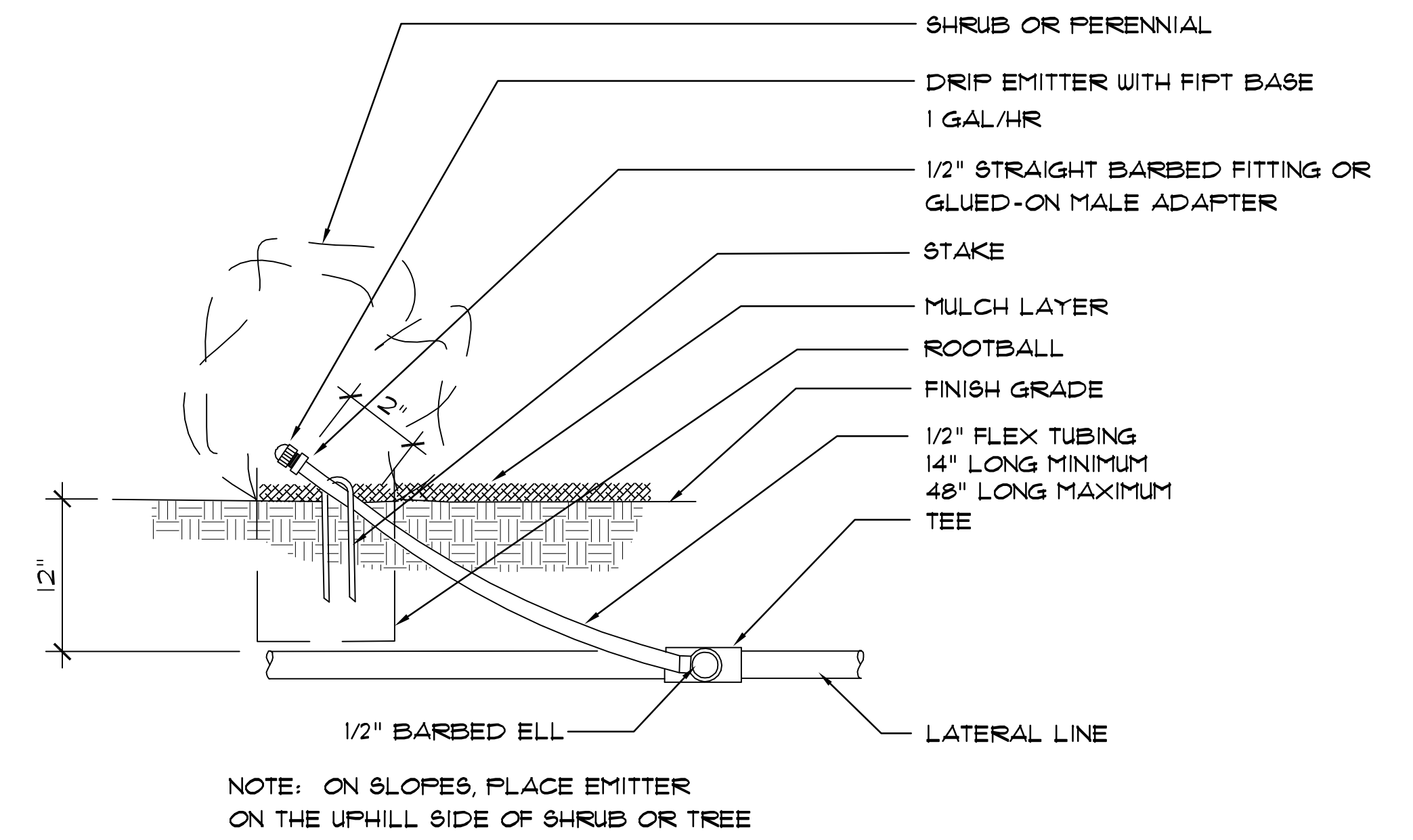




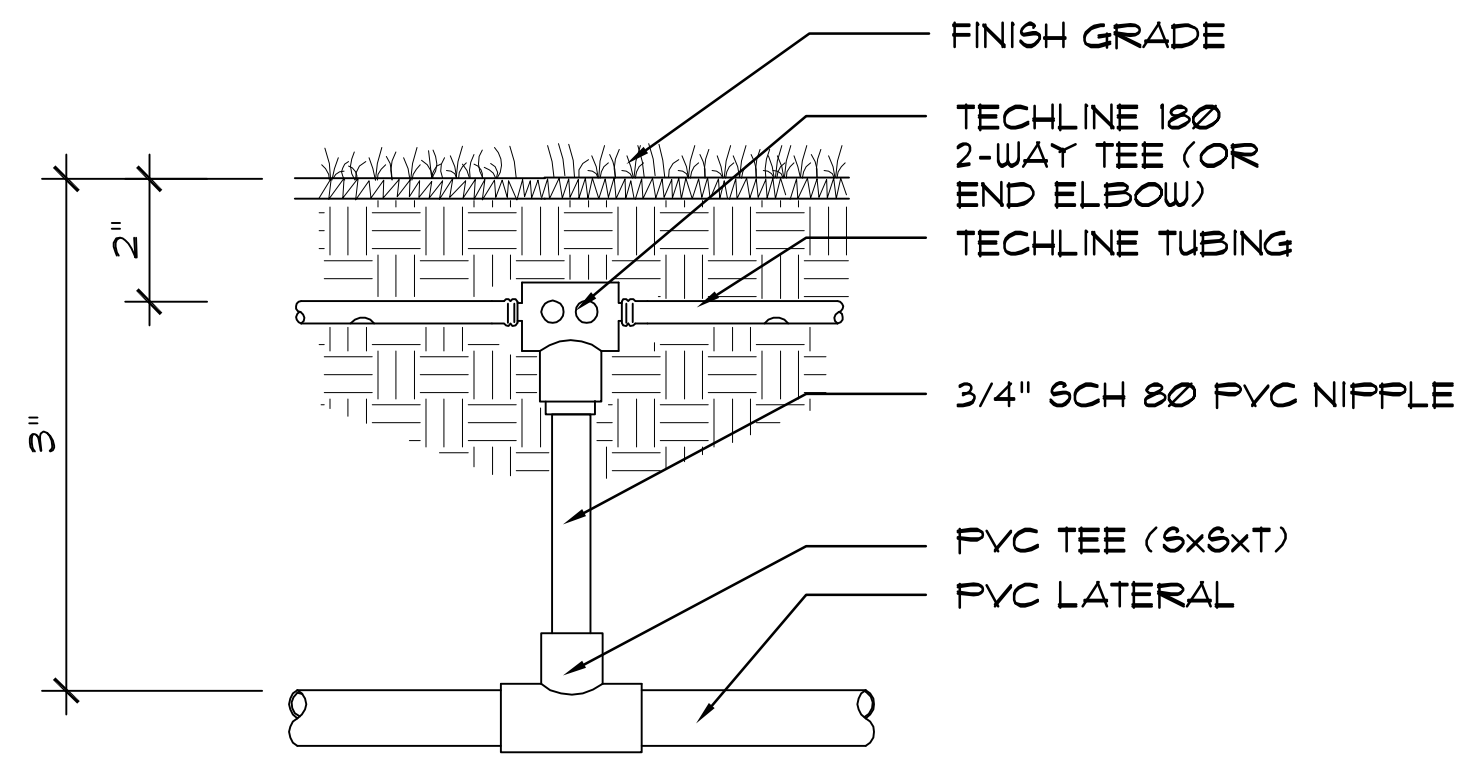
**1 DRIP ASSEMBLY**  
NTS



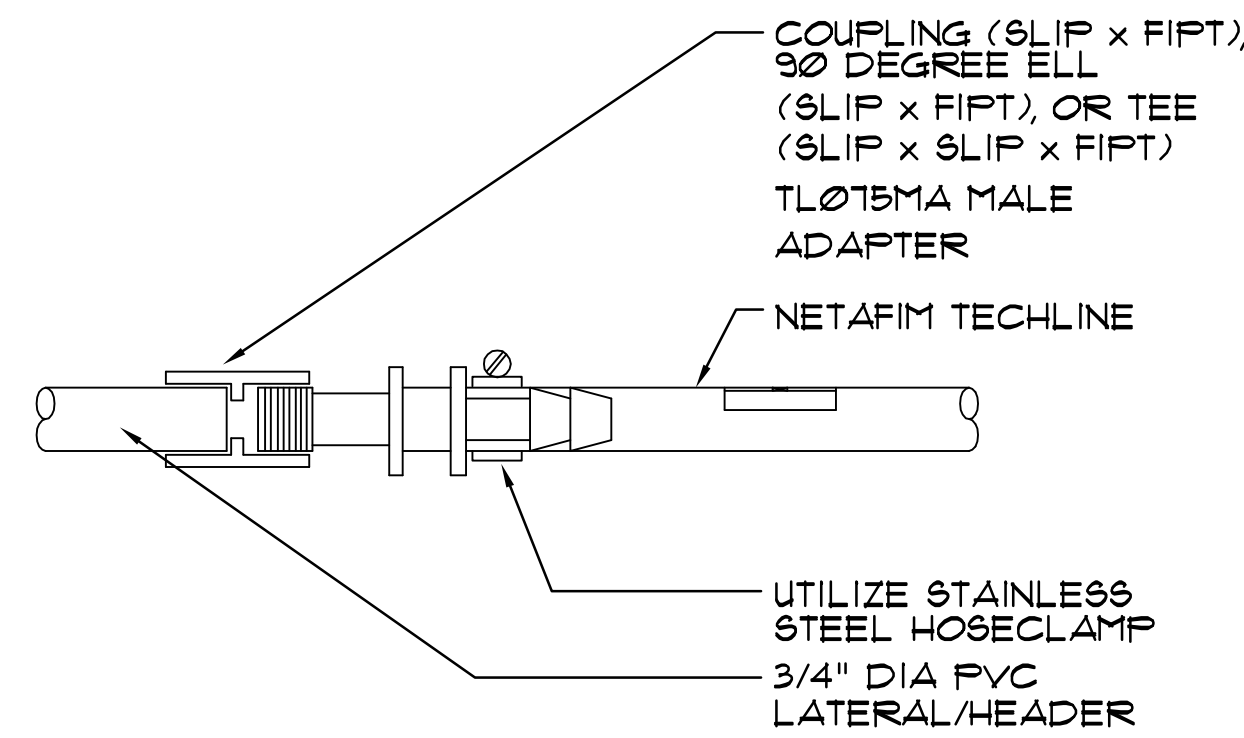
**2 DRIP ZONE VALVE ASSEMBLY**  
NTS



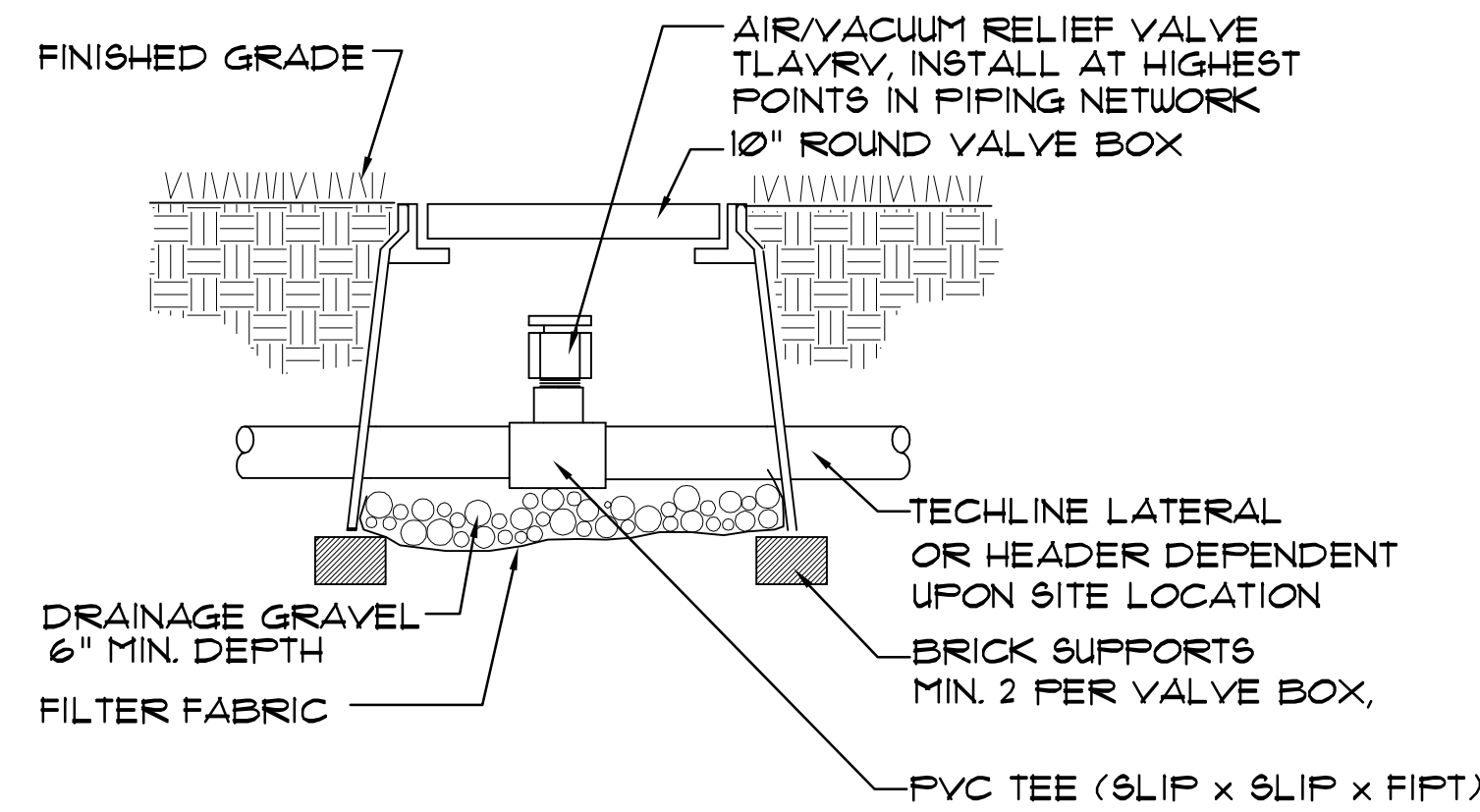
**3 DRIP EMITTER**  
NTS



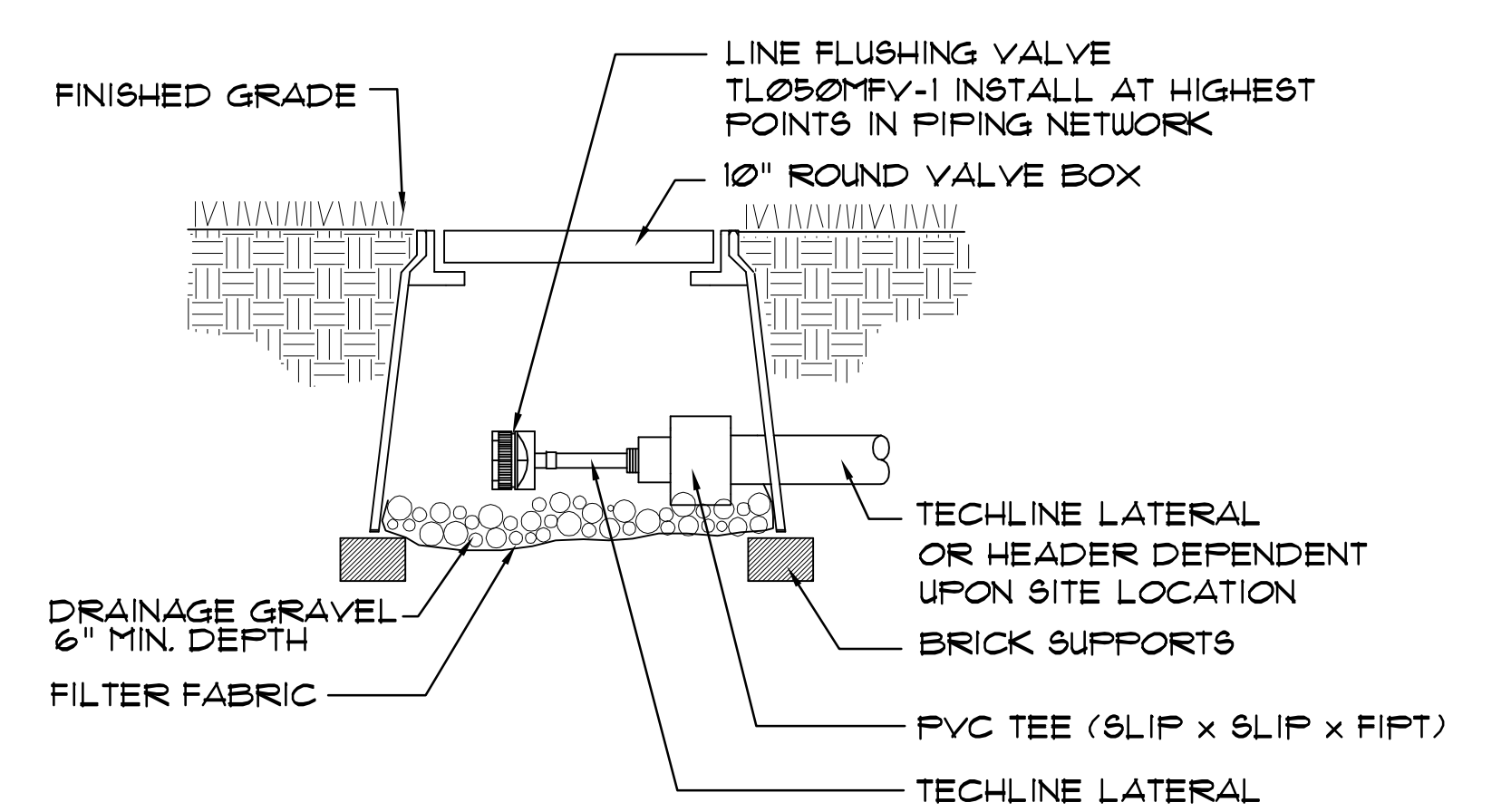
**4 MANIFOLD CONNECTION (PVC to TEE)**  
NTS



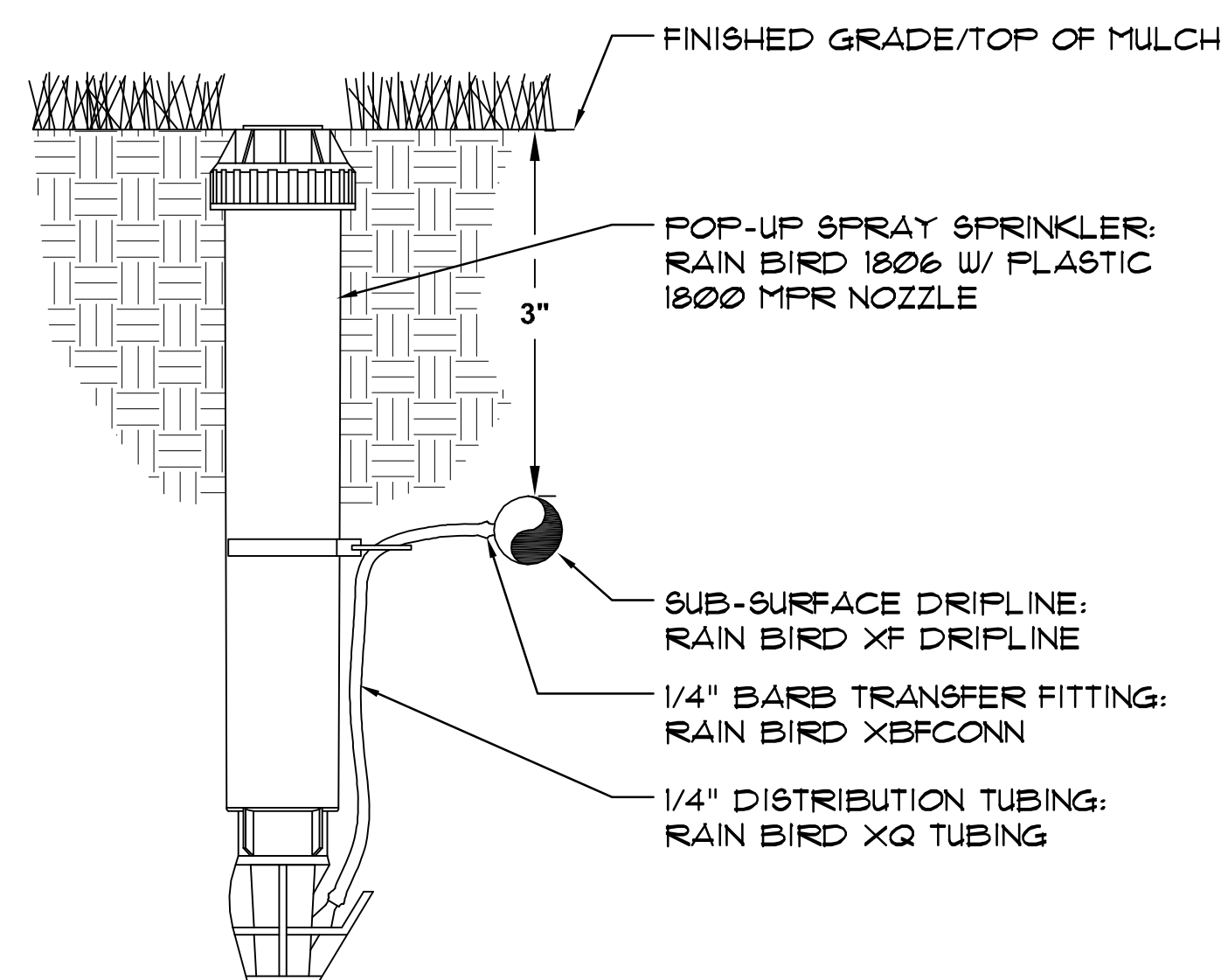
**5 ADAPTER ASSEMBLY**  
NTS



**6 AIR RELIEF VALVE**  
NTS

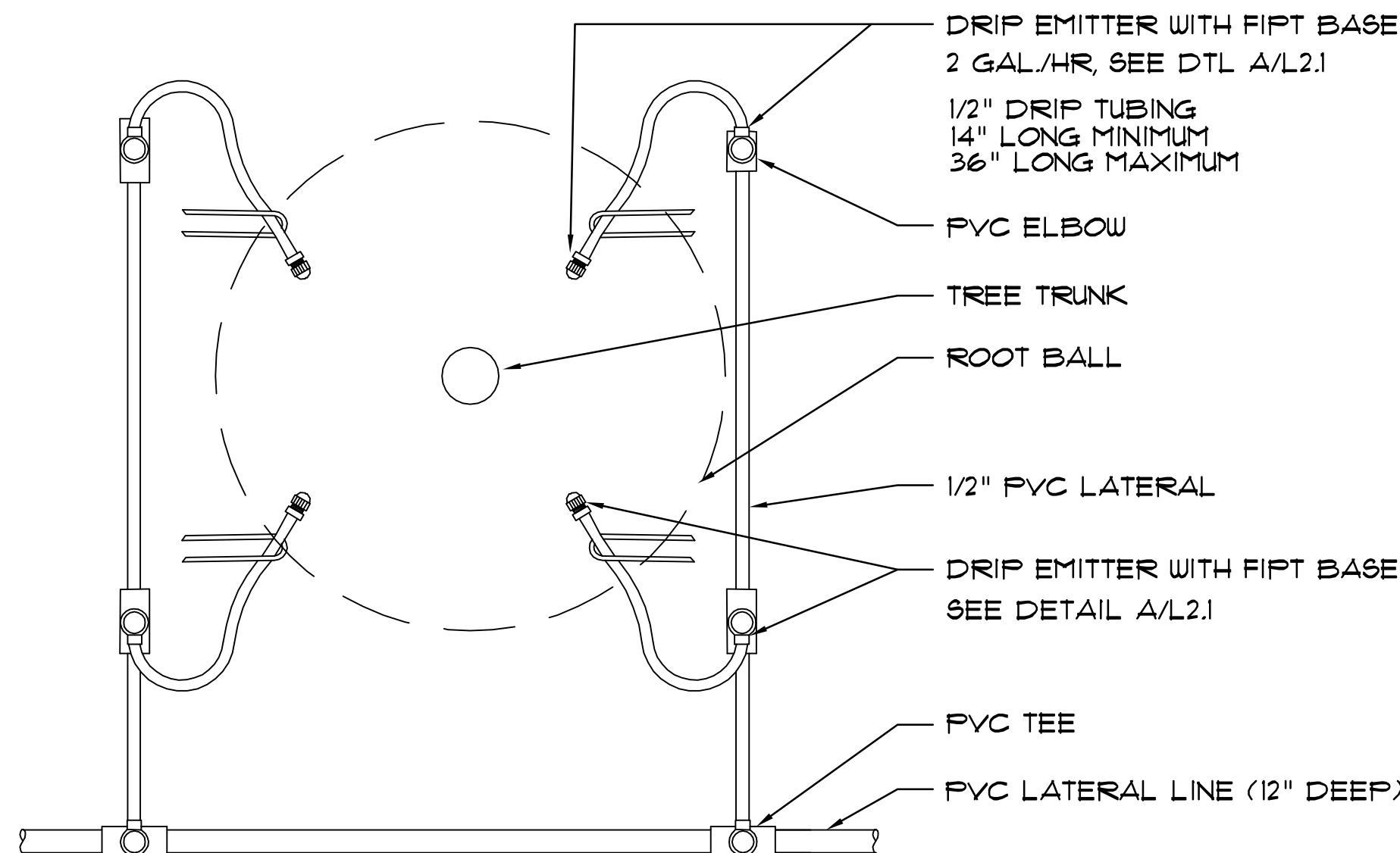


**7 FLUSHING VALVE**  
NTS



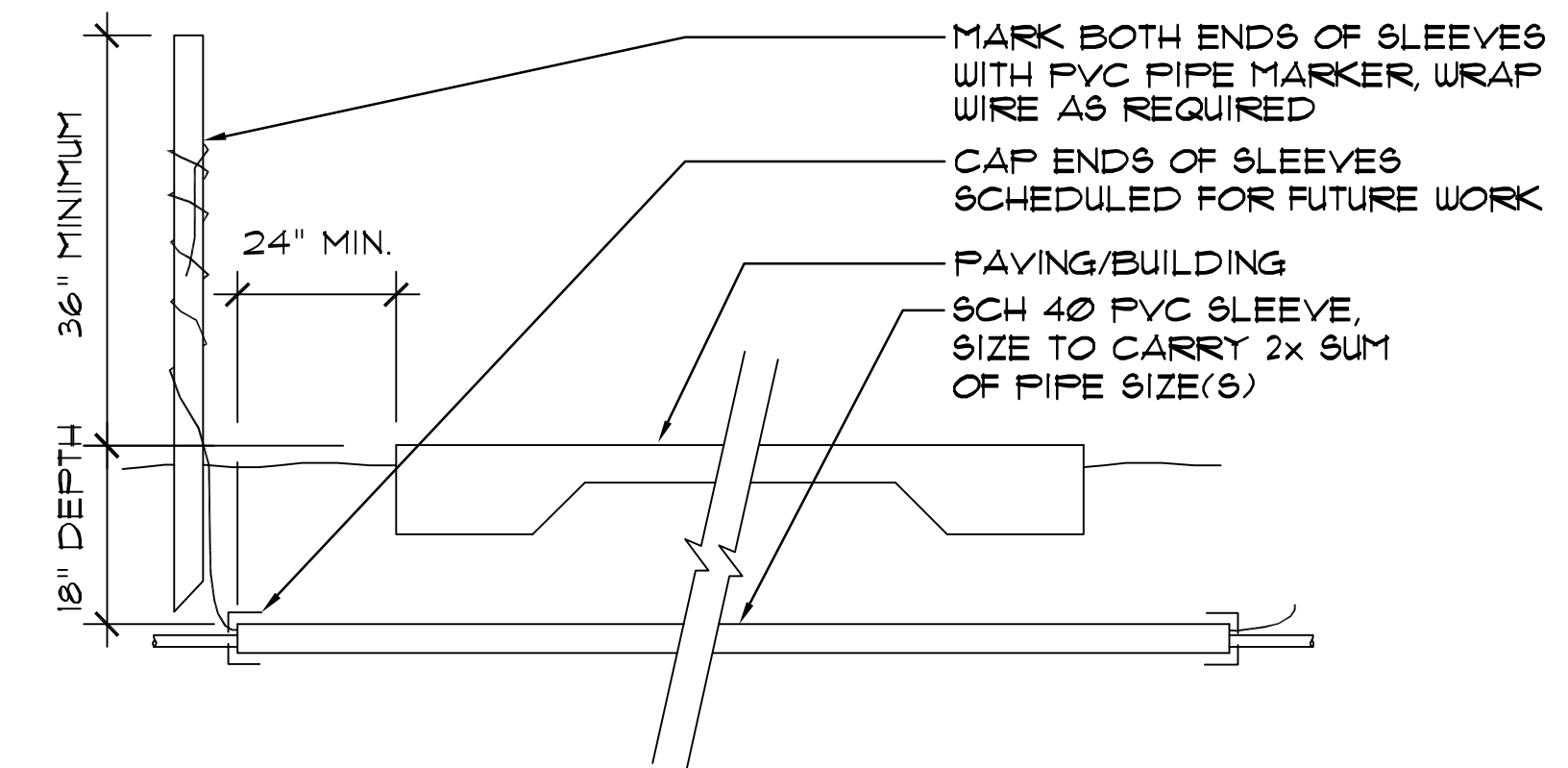
NOTE:  
1. USE XERIMAN TOOL XM-TOOL TO INSERT BARB TRANSFER FITTING DIRECTLY INTO DRIPLINE TUBING.

**8 DRIP SYSTEM OPERATION INDICATOR**  
NTS



NOTE:  
INSTALL 4 EMITTERS PER SHADE TREE,  
2 EMITTERS PER ACCENT TREE

**9 TREE EMITTER DETAIL**  
NTS



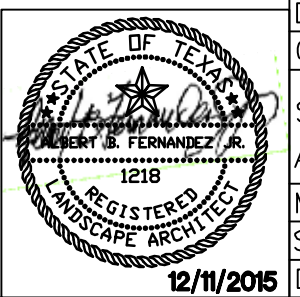
**10 IRRIGATION SLEEVE DETAIL**  
NTS

C•F•Z Group LLC  
Collins • Fernandez • Zavala  
Landscape Architecture  
& Planning  
7410 John Smith Dr., Suite 208  
San Antonio, Texas 78229  
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No.	Revision	Drawn	Approved	Date
2	ADDENDUM 2	SDT	ABFJR	12/17/15

REVISIONS  
**CHILLED WATER PLANT IMPROVEMENTS**  
**DRIP IRRIGATION DETAILS**

DEVELOPER: [ ]  
CONT. [ ] BUDGET PROJ.  
SUBMITTED [ ]  
APPROVED [ ]  
MAP No. [ ]  
SECT. No. [ ]



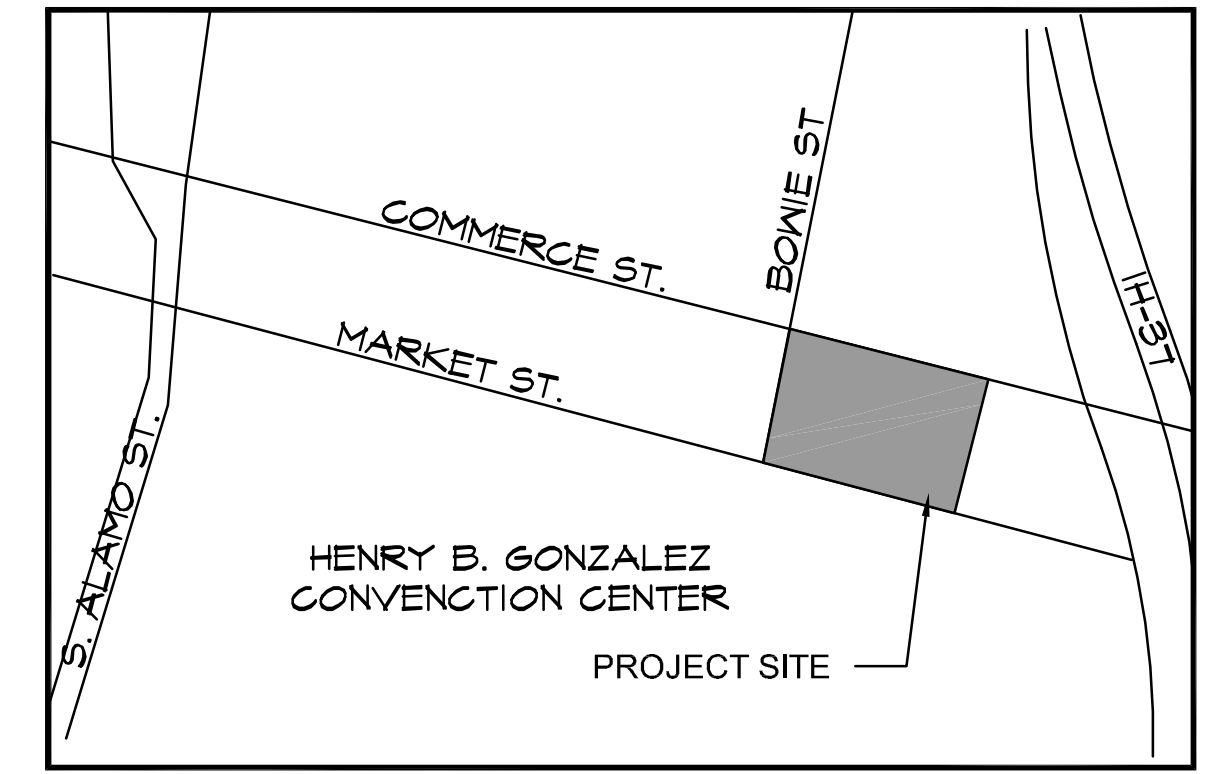
DEMOLITION/CONSTRUCTION NOTES (◆ - KEYED NOTES)

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- The contractor is required by law to notify Texas One Call (800-245-4545) 72 hours prior to any excavation. Contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures. 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 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 contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- Contractor shall be responsible for any coordination with other contractors as required to accomplish all construction operations. All piping, conduit, sleeves, etc. shall be set in place prior to installation of construction items.
- Refer to State/City Standard Plans and specifications where applicable.
- All existing improvements, materials, utilities and plant material to remain within the new construction area shall be properly and adequately protected from damage during demolition operations. It shall be the responsibility of the Contractor to restore to the original condition any of these existing items that are damaged or disturbed in any way. All existing trees within or near construction area are to be protected for duration of construction.

- Streets and adjacent property shall be protected throughout the work as required by local codes and regulations and approved by the Owner.
- During demolition operations, every effort shall be made to control dust per City requirements.
- The entire demolition area shall be grubbed. Grubbing shall include all stumps and root systems of removed plant material and any other deleterious items. Grubbing shall be to the depths as required to remove these items.
- All forms must be inspected and approved by the Landscape Architect prior to the installation of any construction.
- Install felt expansion joints, sealant and backer rod where paving abuts existing hardscape.
- All new paving shall match existing grade.
- EXISTING CONCRETE PAVING;  
ALT. FW2: STAINED CONCRETE PAVING
- NEW CONCRETE PAVING TO MATCH EXISTING, SEE DTL. 1/L5.3  
ALT. FW2: STAINED CONCRETE PAVING
- EXISTING CLAY PAVERS  
ALT. FW1: STAINED CONCRETE PAVERS  
NEW CLAY PAVERS TO MATCH EXISTING, SEE DTL. 2/L5.3  
ALT. FW1: STAINED CONCRETE PAVERS TO MATCH EXISTING
- COLORED ASPHALT (BY OTHERS)
- REFURBISHED EXISTING FOUNTAIN, SEE DTL. 8/L5.3
- REFURBISHED EXISTING REFLECTING POOL, SEE DTL. 9/L5.3

- NEW PLANTER, SEE DTL. 6/L5.3
- DECOMPOSED GRANITE, SEE DTL. 4/L5.1
- STEEL EDGING, SEE DTL. 2/L5.1
- EXISTING PLANTER, PROTECT IN PLACE
- FENCE, BY OTHERS
- EXISTING FENCE TO REMAIN
- EXISTING BUS STOP TO REMAIN
- EXISTING UTILITY TO REMAIN
- MAINTENANCE VEHICLE ACCESS
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING PAVERS, CONCRETE SUBSLAB AND BASE
- REMOVE EXISTING STEEL EDGING
- REMOVE EXISTING CONCRETE AS NEEDED FOR FOUNTAIN REPAIR. SEE MEP DWGS.
- REMOVE EXISTING CONCRETE PAVERS AS NEEDED FOR FOUNTAIN REPAIR. SEE MEP DWGS.
- REMOVE EXISTING TILE BENCH. REPAIR FOUNTAIN/PLANTER WALL AT BENCH LOCATIONS.

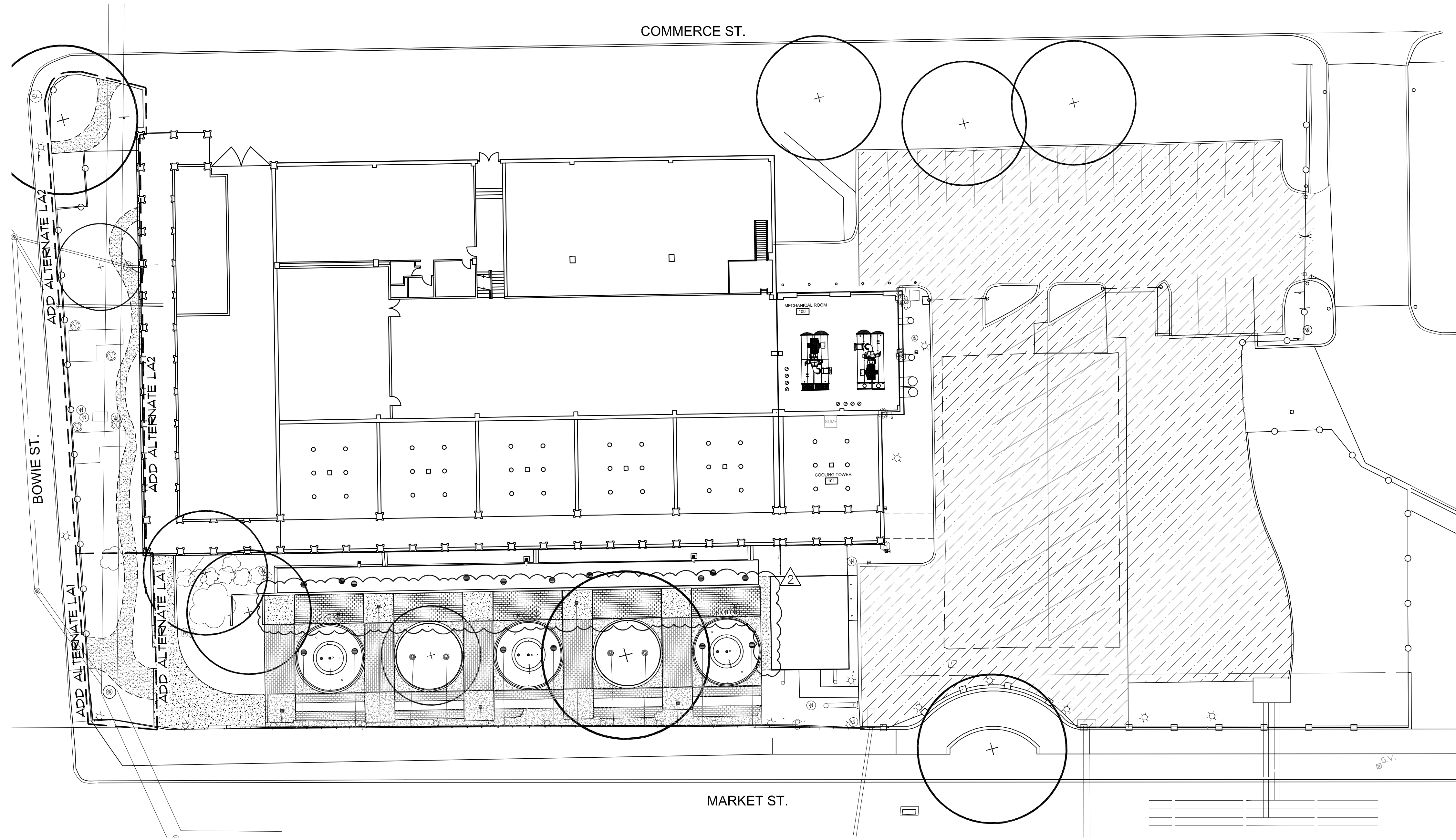
35. Paver pattern shown is for graphic representation only. New paver pattern shall match existing pattern.



VICINITY MAP  
(NOT TO SCALE)

LEGEND

- EXISTING TREE
- EXISTING SHRUB TO REMAIN
- EXISTING SHRUB TO BE REMOVED
- EXISTING CONCRETE
- EXISTING PAVERS
- PAVING TO BE REMOVED
- NEW CONCRETE
- NEW PAVERS
- COLORED ASPHALT
- DECOMPOSED GRANITE
- STEEL EDGING



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No.	Revision	Drawn	Approved	Date
2	ADDENDUM 2	SDT	ABFJR	12/17/15

REVISIONS

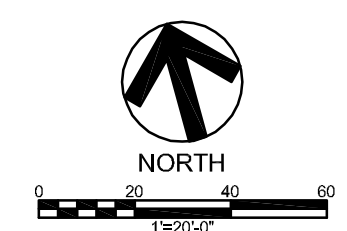
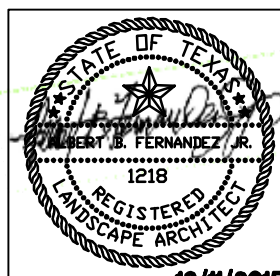
CHILLED WATER PLANT IMPROVEMENTS  
SITE PLAN

DEVELOPER: [ ]  
CONT. [ ] BUDGET PROJ.

SUBMITTED [ ]  
APPROVED [ ]

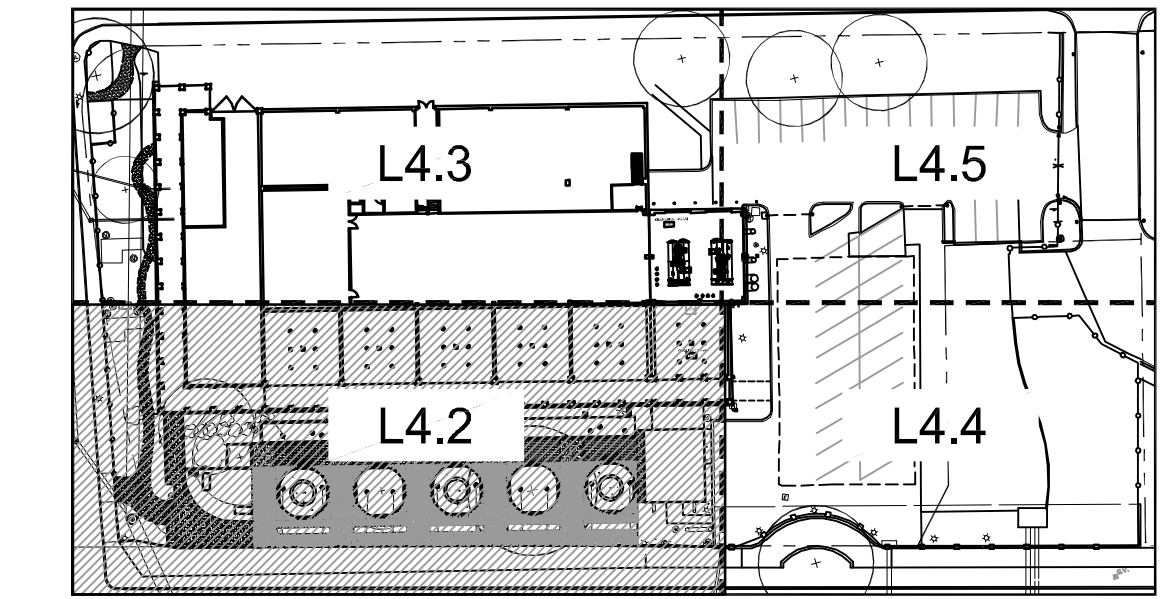
MAP No. [ ] SHEET L41  
SECT. No. [ ] OF 20

12/11/2015 DR. SDT | CK. ABF | JOB No. 15-958



**DEMOLITION/CONSTRUCTION NOTES KEY NOTES**

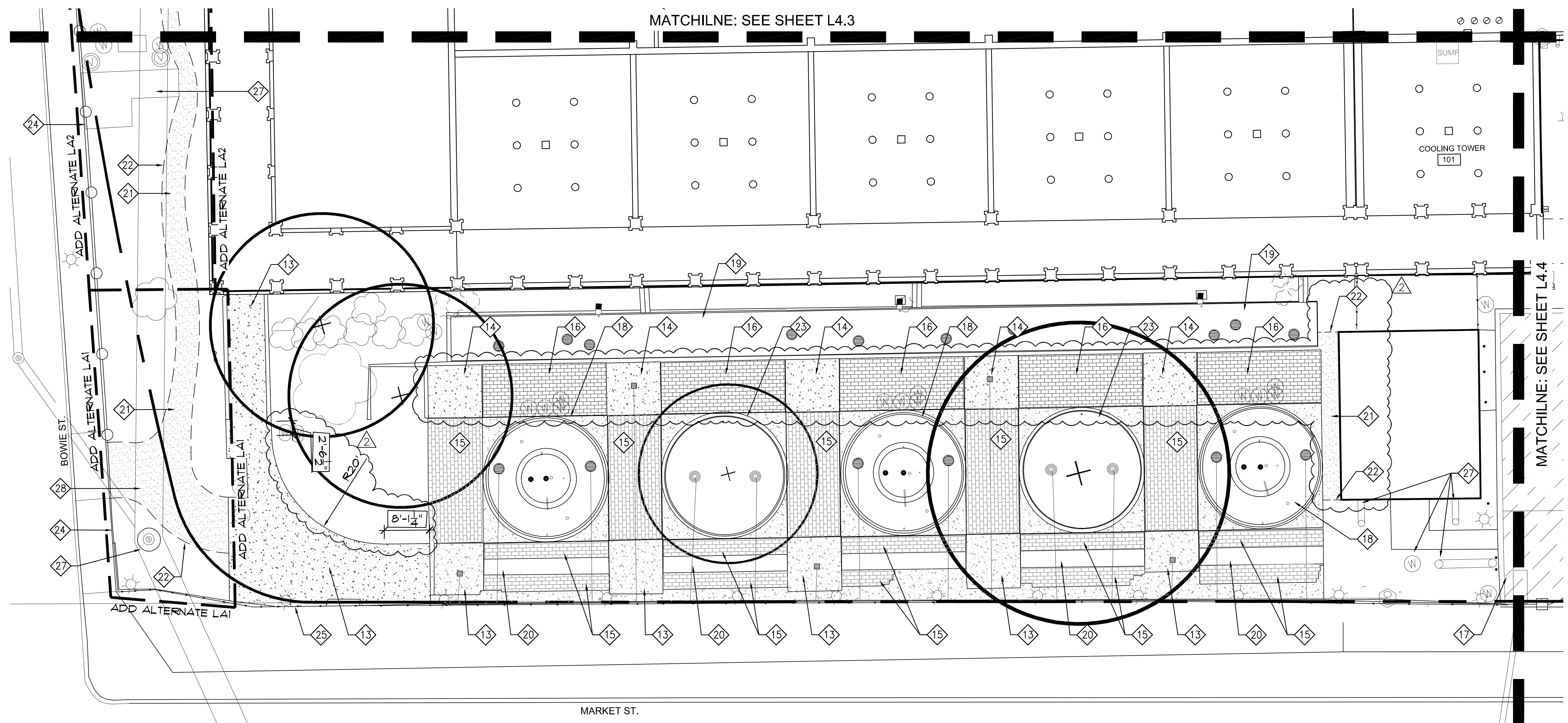
- 13 EXISTING CONCRETE PAVING;  
ALT. FIN2: STAINED CONCRETE PAVING
- 14 NEW CONCRETE PAVING TO MATCH EXISTING, SEE DTL. 1/L5.3  
ALT. FIN2: STAINED CONCRETE PAVING
- 15 EXISTING CLAY PAVERS  
ALT. FIN1: STAINED CONCRETE PAVERS
- 16 NEW CLAY PAVERS TO MATCH EXISTING, SEE DTL. 2/L5.3  
ALT. FIN1: STAINED CONCRETE PAVERS TO MATCH EXISTING
- 17 COLORED ASPHALT (BY OTHERS)
- 18 REFURBISHED EXISTING FOUNTAIN, SEE DTL. 8/L5.3
- 19 REFURBISHED EXISTING REFLECTING POOL, SEE DTL. 9/L5.3
- 20 NEW PLANTER, SEE DTL. 6/L5.3
- 21 DECOMPOSED GRANITE, SEE DTL. 4/L5.1
- 22 STEEL EDGING, SEE DTL. 2/L5.1
- 23 EXISTING PLANTER, PROTECT IN PLACE
- 24 FENCE, BY OTHERS
- 25 EXISTING FENCE TO REMAIN
- 26 EXISTING BUS STOP TO REMAIN
- 27 EXISTING UTILITY TO REMAIN
- 28 MAINTENANCE VEHICLE ACCESS
- 29 REMOVE EXISTING CONCRETE
- 30 REMOVE EXISTING PAVERS, CONCRETE SUBSLAB AND BASE
- 31 REMOVE EXISTING STEEL EDGING
- 32 REMOVE EXISTING CONCRETE AS NEEDED  
FOR FOUNTAIN REPAIR. SEE MEP DWGS.
- 33 REMOVE EXISTING CONCRETE PAVERS AS  
NEEDED FOR FOUNTAIN REPAIR. SEE MEP DWGS.
- 34 REMOVE EXISTING TILE BENCH. REPAIR  
FOUNTAIN/PLANTER WALL AT BENCH LOCATIONS.
- 35. Paver pattern shown is for graphic representation only. New paver  
pattern shall match existing pattern.



**KEY MAP**  
(NOT TO SCALE)

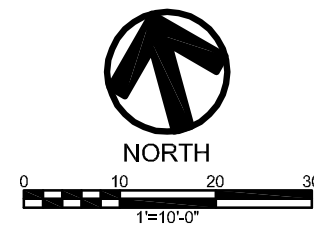
**LEGEND**

- EXISTING TREE
- EXISTING SHRUB TO REMAIN
- EXISTING SHRUB TO BE REMOVED
- EXISTING CONCRETE
- EXISTING PAVERS
- PAVING TO BE REMOVED
- NEW CONCRETE
- NEW PAVERS
- COLORED ASPHALT
- DECOMPOSED GRANITE
- STEEL EDGING

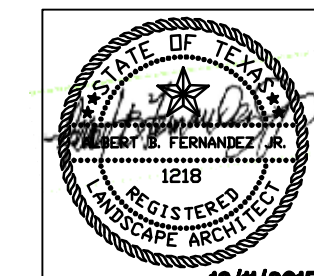


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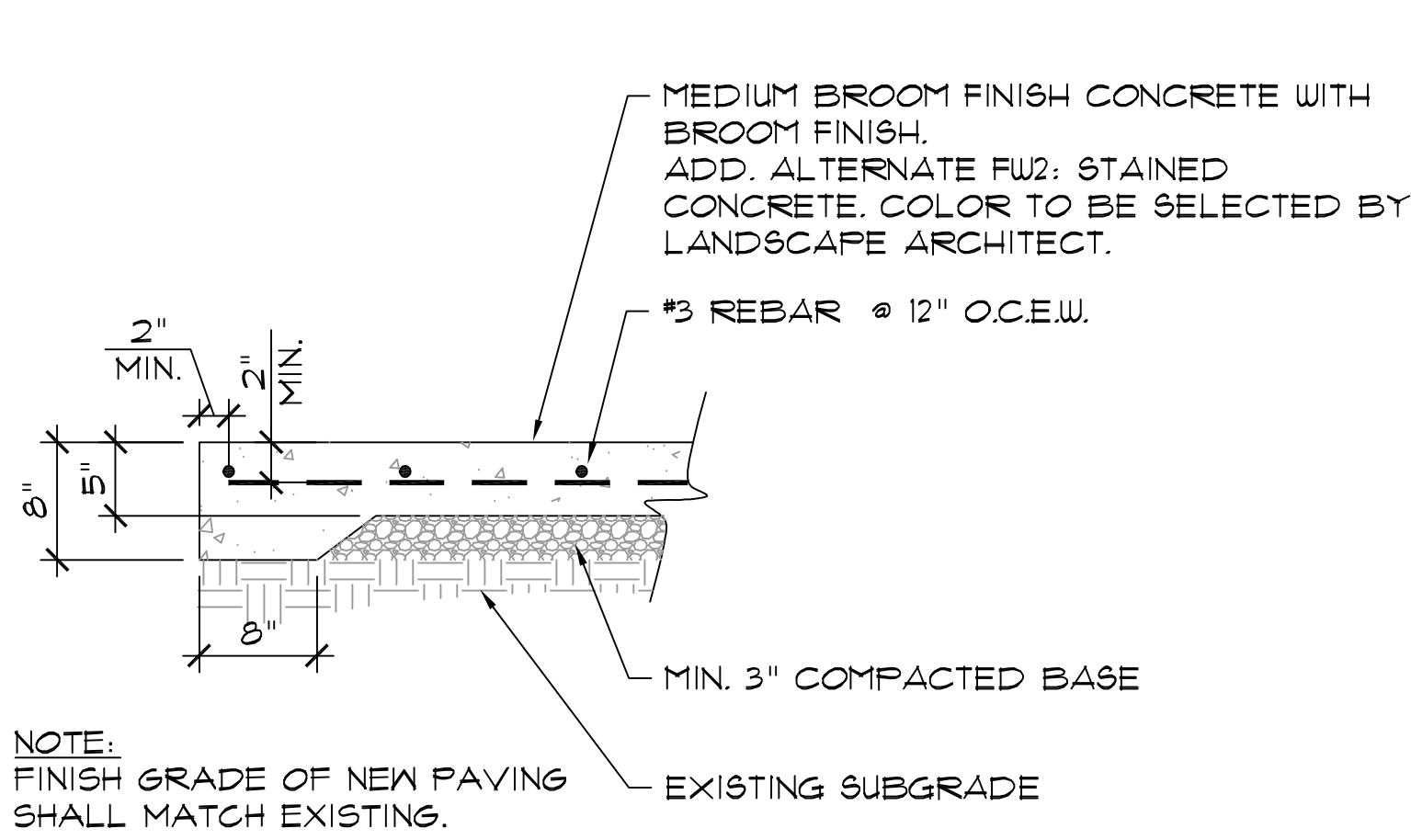
**CHILLED WATER  
PLANT IMPROVEMENTS  
SITE PLAN**



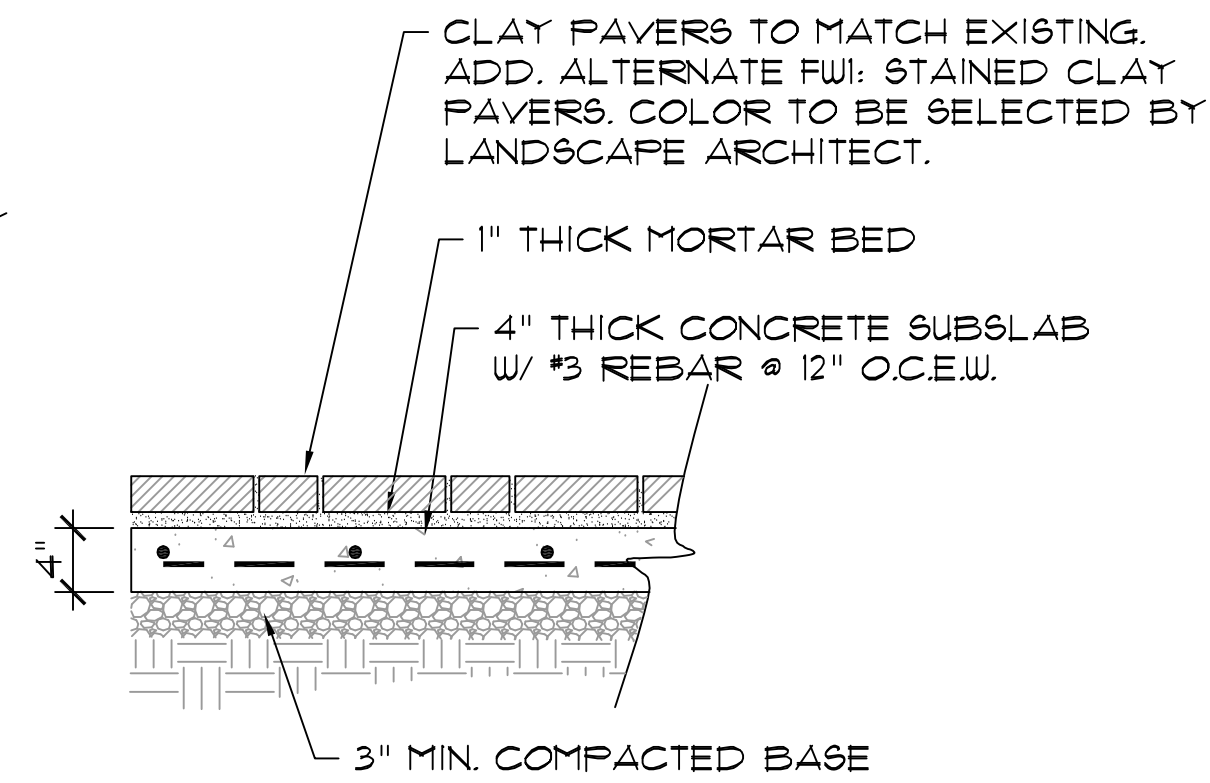
DEVELOPER:  
CONT. [BUDGET PROJ.]  
SUBMITTED  
APPROVED  
MAP No.  
SECT. No.  
DR. SDT | CK. ABF | JOB No. 15-958

SHEET  
**L42**  
OF 20

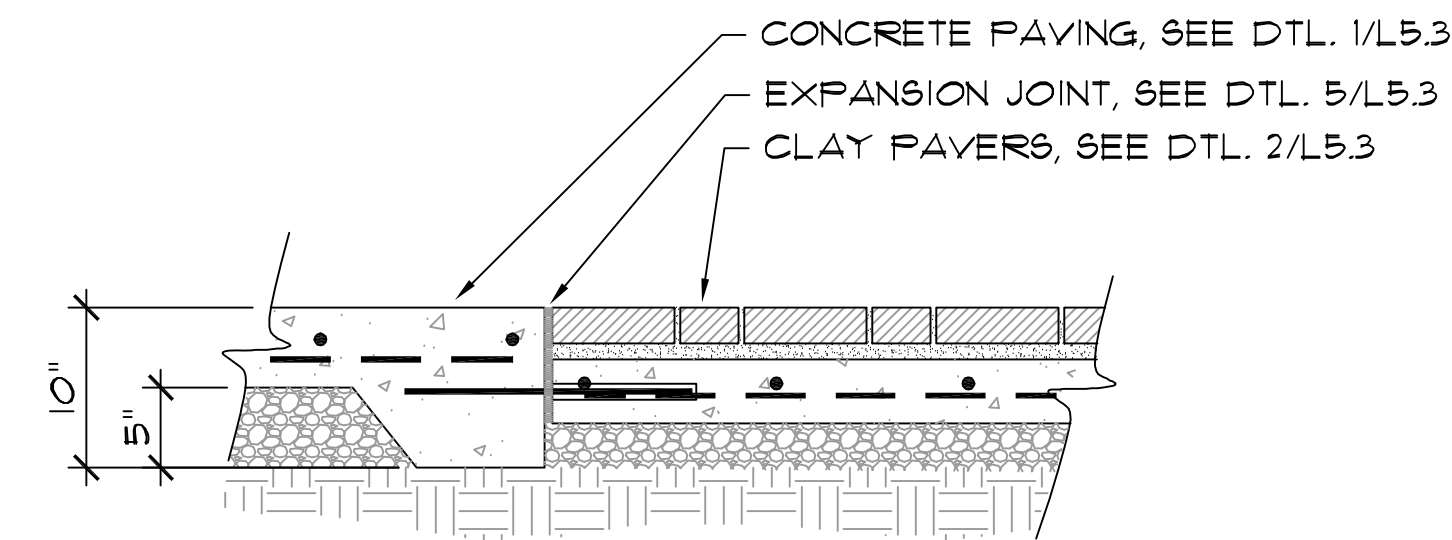




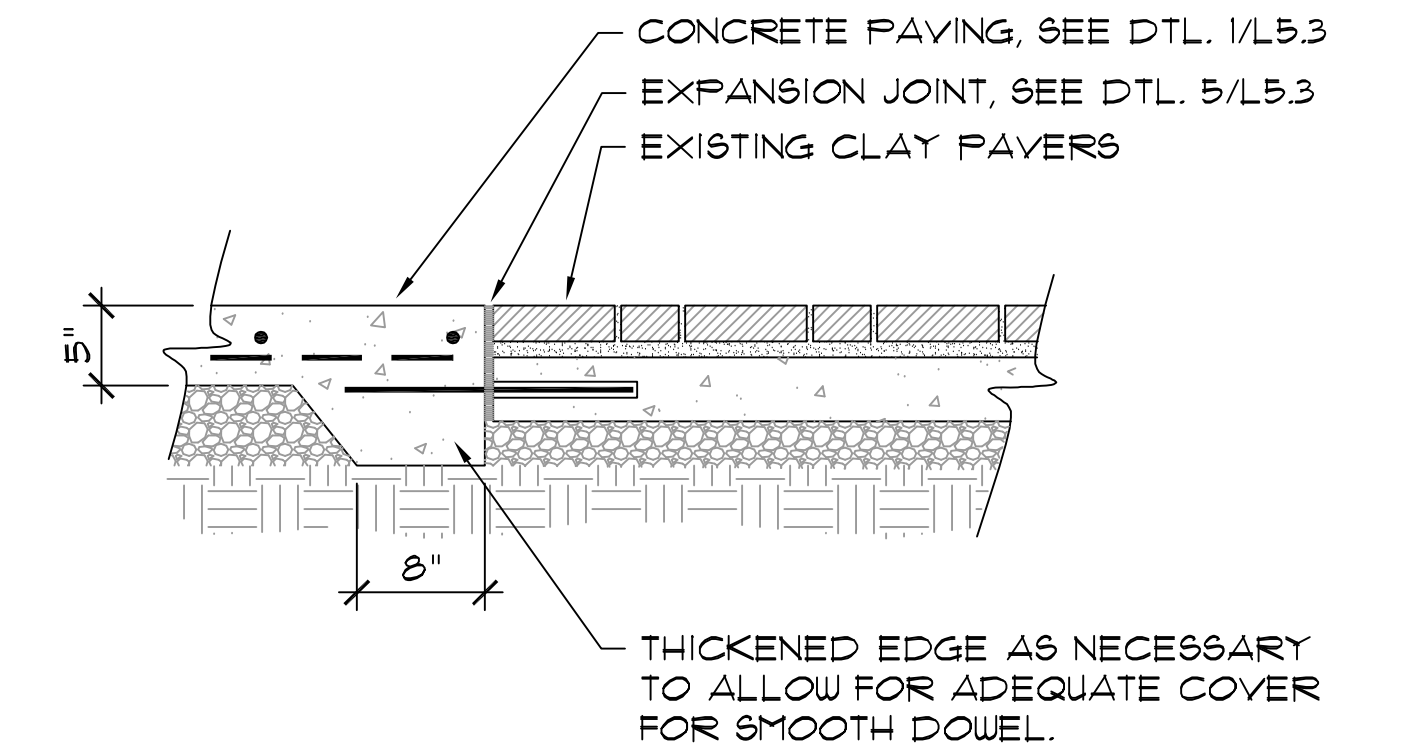
**1 CONCRETE PAVING**  
SCALE: 1"=1'-0"



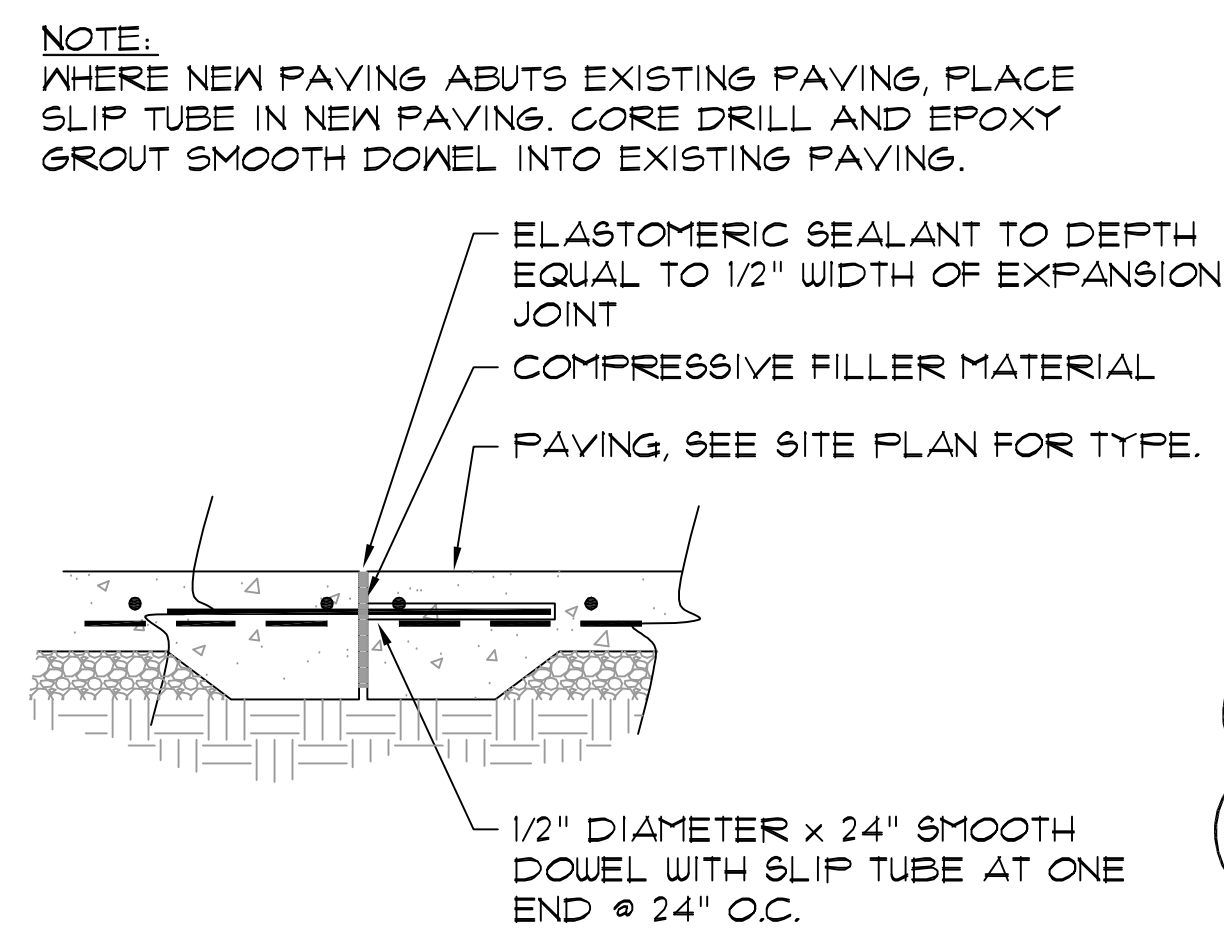
**2 CLAY PAVERS ON CONCRETE BASE**  
SCALE: 1"=1'-0"



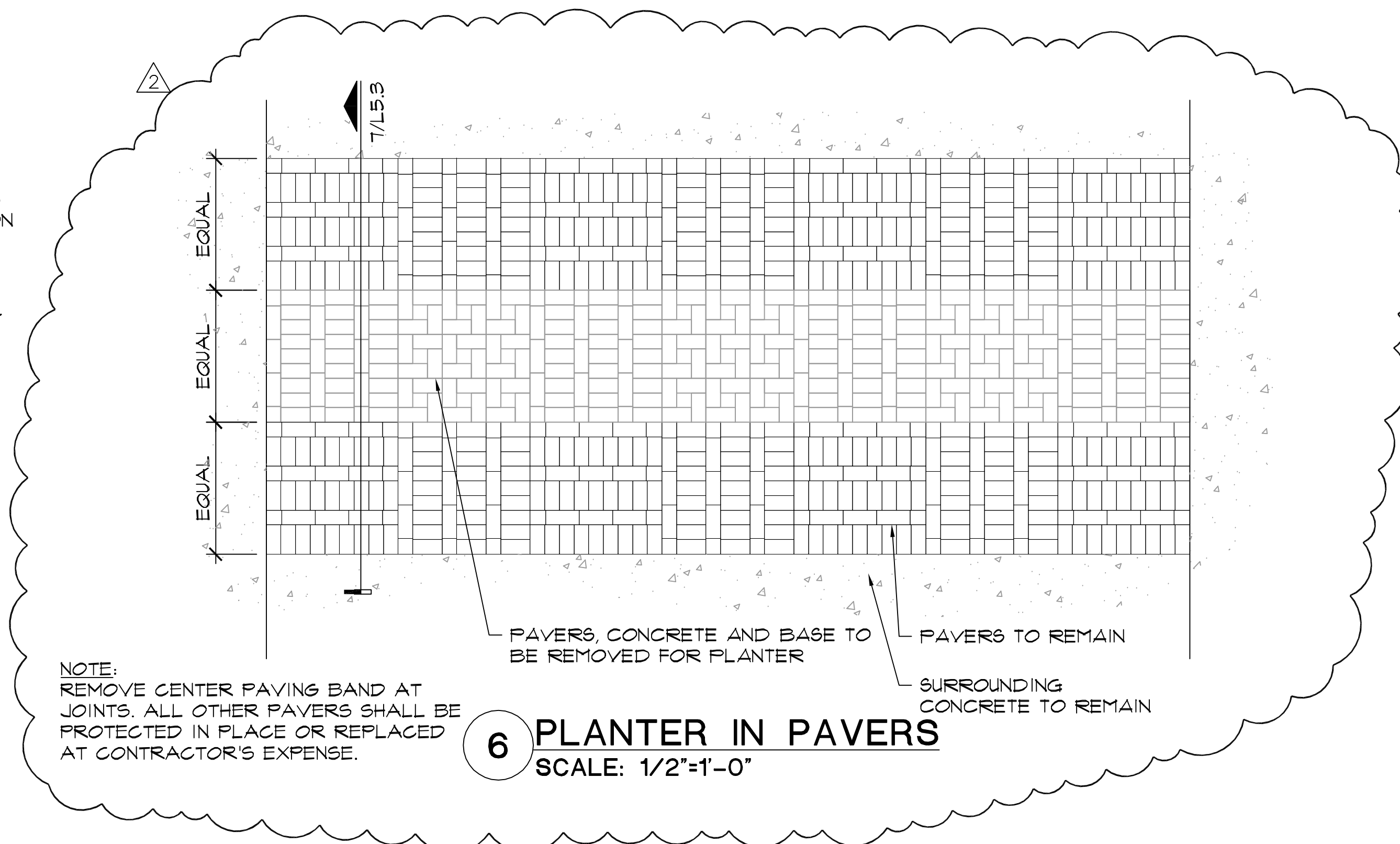
**3 NEW CONCRETE @ NEW PAVERS**  
SCALE: 1"=1'-0"



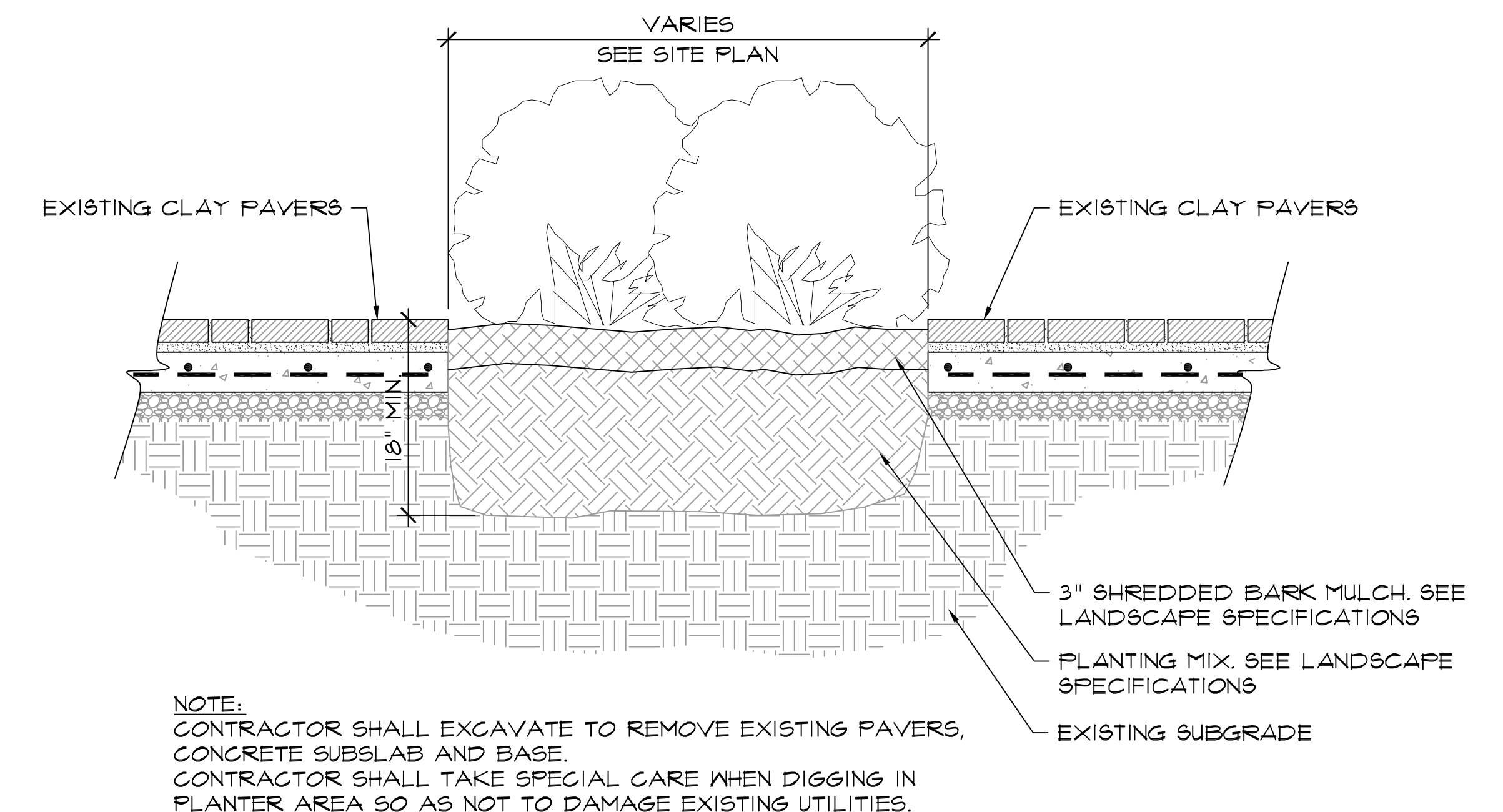
**4 NEW CONCRETE @ EXISTING PAVERS**  
SCALE: 1"=1'-0"



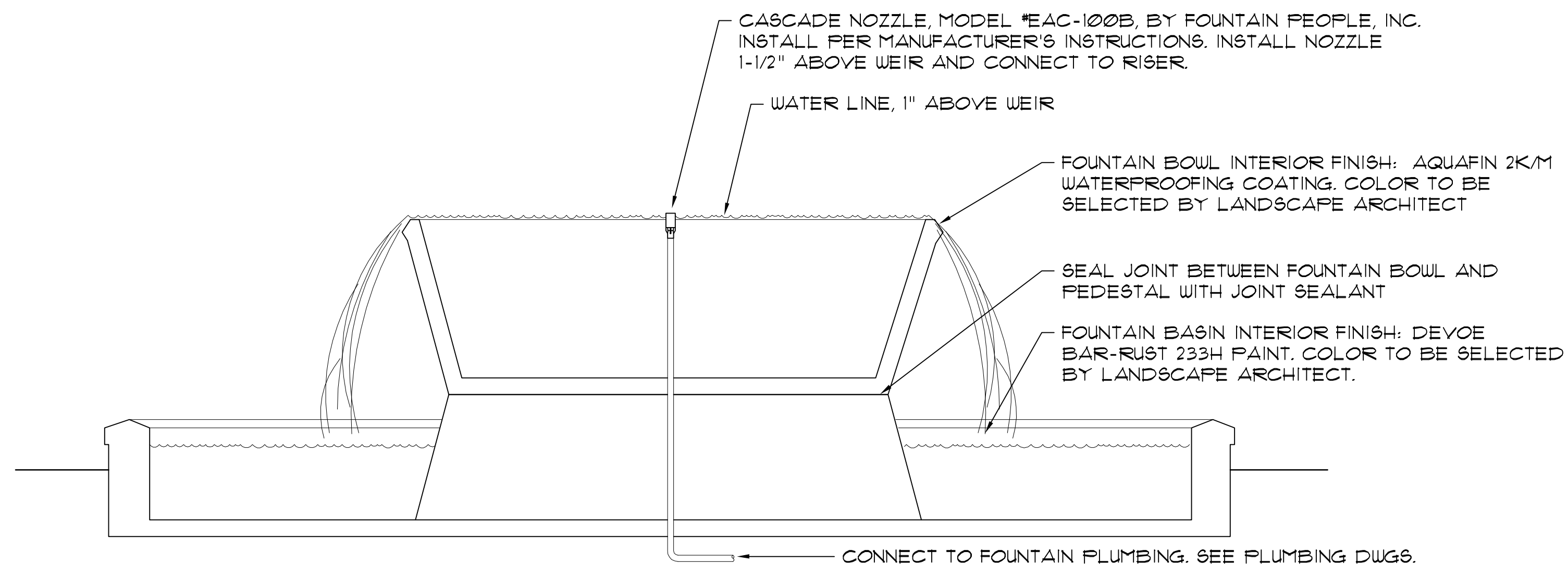
**5 EXPANSION JOINT**  
SCALE: 1"=1'-0"



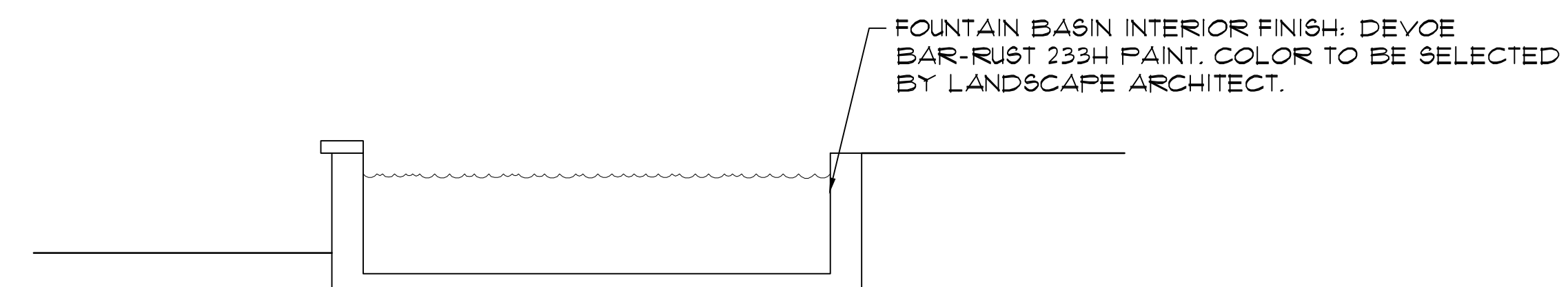
**6 PLANTER IN PAVERS**  
SCALE: 1/2"=1'-0"



**7 PLANTER IN PAVERS-SECTION**  
SCALE: 1"=1'-0"



**8 FOUNTAIN FINISH DETAIL**  
NOT TO SCALE



**9 REFLECTING POOL FINISH DETAIL**  
NOT TO SCALE

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REVISIONS

**CHILLED WATER PLANT IMPROVEMENTS**

**HARDSCAPE DETAILS**

DEVELOPER: \_\_\_\_\_

CONT. [ ] BUDGET PROJ. [ ]

APPROVED: \_\_\_\_\_

MAP No. \_\_\_\_\_ SHEET **L53**

SECT. No. \_\_\_\_\_ OF 20

12/11/2015 DR. SDT CK. ABF JOB No. 15-958

Date: December 17, 2015  
Client: SAWS  
Project Name: Chilled Water Plant  
Project Number: Improvements 15-7502 (AAI)

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This addendum is generally separated into sections for convenience; however, all contractors, subcontractors, material men and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any part affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project.

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#### PLAN ITEMS

##### RE: Plan Sheet E1.1:

- Item 1: Add 120V, 20A Circuit #'L2-8' for power to Rainbird Controller (irrigation controls).  
See Drawing Sheet L1.3 for location of Rainbird Controller.



END OF ITEMS FOR ADDENDUM