



CONSTRUCTION PLANS FOR:

# 'The Playful Puppy' Sculpture Plaza

City of Keller, Texas

**STAFF:**

**Mayor**  
Pat McGrail

**Mayor Pro Tem**  
Sean Hicks

**City Council**  
Mitch Holmes, Place 1  
Sheri Almond, Place 3  
Beckie Paquin, Place 4  
Chris Whatley, Place 5  
Tag Green, Place 6

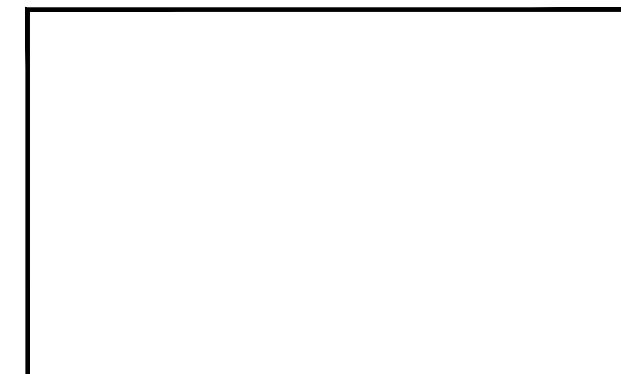
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APPROVALS



**AREA MAP:**



NOT TO SCALE

issue date:  
May 29, 2020

revisions:

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*Robert P. Stoffels*  
5/29/2020

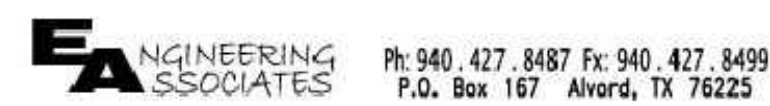
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PREPARED BY:



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### GENERAL LEGEND/ NOTES:

REF.	REFERENCE, REFER TO
TYP.	TYPICAL
MIN.	MINIMUM
MAX.	MAXIMUM

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE GOVERNING REGULATORY REQUIREMENTS. REQUIRED PERMITS SHALL BE OBTAINED BY THE CONTRACTOR.
- ALL CONSTRUCTION COVERED BY THESE CONTRACT DOCUMENTS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALL APPLICABLE CITY AND OSHA CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND AMENDMENTS AS ADOPTED BY CITY OF KELLER.
- CONTRACTOR TO VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EASEMENTS, BUILDINGS, ROADWAYS, CURB AND GUTTERS, UTILITIES AND OTHER INFORMATION AFFECTING THIS SCOPE OF WORK. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION ON HOW TO PROCEED IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THESE DRAWINGS.
- CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION AS DESIGNED IF OBSTRUCTIONS AND/OR DIFFERENCES EXIST ON SITE THAT WERE NOT APPARENT DURING THE COURSE OF DESIGN AND CONSTRUCTION DOCUMENTATION. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- EXCAVATION IN THE VICINITY OF UTILITIES SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SITE UTILITIES WITH LOCAL AUTHORITIES AND/OR OWNER'S REPRESENTATIVE PRIOR TO BEGINNING EXCAVATION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
- CONTRACTOR SHALL COORDINATE MATERIAL STORAGE, PARKING OF VEHICLES AND RESTRICTIONS ON WORK WITH OWNER'S REPRESENTATIVE. PARKING OF VEHICLES AND STORAGE OF MATERIALS SHALL NOT BE PERMITTED BENEATH THE CANOPIES OF EXISTING TREES.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO COMPLETE WORK AS SHOWN IN THESE DRAWINGS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR(S) IS RESPONSIBLE FOR REMOVAL OF TRASH AND REPAIR OF HAZARDOUS CONDITIONS ON A DAILY BASIS, BY END OF WORK DAY.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL APPROVAL, CONTRACTOR SHALL THOROUGHLY CLEAN PROJECT SITE OF ALL TRASH AND SCRAPS. CONTRACTOR SHALL REPAIR ALL DAMAGE TO FINISH GRADE, INCLUDING TAILINGS FROM EXCAVATIONS, WHEEL RUTS, ETC., CAUSED BY CONSTRUCTION.
- ANY REFERENCE TO DRAWING REVISIONS, EXPRESSED OR IMPLIED, ARE SHOWN FOR INFORMATION AND CONTRACTOR CONVENIENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR REVIEW AND ADHERENCE TO DRAWINGS ISSUED FOR CONSTRUCTION.

### SITWORK NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL GRADES, LINES, AND MEASUREMENTS NECESSARY TO THE PROPER PERFORMANCE AND CONTROL OF THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES AND SITE CONDITIONS BY A FIELD INSPECTION BEFORE SUBMITTING A BID.
- ALL LOGS, STONES, STUMPS, BRANCHES, ROOTS, RUBBISH, OR OTHER OBJECTIONABLE MATERIALS DISCOVERED IN THE SOIL DURING THE GRADING PROCESS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL MATERIALS AND CONSTRUCTION METHODS OF THE CONTRACT SHALL BE AS STATED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTITUTION, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG).
- ANY DAMAGE TO THE EXISTING STREET PAVING, CURB, OR OTHER EXISTING SITE ELEMENTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHOOTING ALL SPOT ELEVATIONS NECESSARY TO CONSTRUCT THE PROJECT.
- THE OWNER'S REPRESENTATIVE SHALL APPROVE THE STAKING OF ALL SITE ELEMENTS BEFORE WORK COMMENCES ON THESE ELEMENTS.
- IF DIMENSIONS NOTED TO BE FIELD VERIFIED VARY FROM THOSE NOTED ON THE PLAN, CONTACT THE LANDSCAPE ARCHITECT BEFORE PROCEEDING.
- THE LOCATION OF UNDERGROUND FACILITIES INDICATED ON THE PLANS ARE TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND FACILITIES. ANY FACILITIES/ UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. CONTACT DIGTESS - 811.
- ALL REINFORCING SHALL CONFORM TO SPECIFICATIONS AND BE SUPPORTED ON APPROVED CHAIRS.
- THE STAKING OF ALL PORTIONS OF THE WORK SHALL BE OBSERVED IN THE FIELD BY THE LANDSCAPE ARCHITECT, CITY STAFF, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF ADJUSTMENT IS REQUIRED, THE CONTRACTOR SHALL ADJUST THE STAKING IMMEDIATELY DURING STIPULATED SITE VISIT AND MAINTAIN STAKING THROUGH CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING AND PAYING ALL PERMITS AND INSPECTIONS FROM ALL JURISDICTIONAL AGENCIES AND CORPORATIONS. THE CONTRACTOR WILL NOT BE REQUIRED TO PAY FEES FOR PERMITS ISSUED BY THE CITY.
- THE CONTRACTOR SHALL MAKE THE DETERMINATION OF THE AMOUNT OF CUT AND FILL NECESSARY TO COMPLETE THE EARTHWORK AS SHOWN ON THE PLANS AND INCLUDE A FEE FOR COMPLETION OF THE EARTHWORK IN THE BASE BID. SOIL SHALL NOT CONTAIN ROCKS 3" OR LARGER IN ANY DIMENSION. THE TOP 6" OF SOIL SHALL NOT CONTAIN ROCKS LARGER THAN ONE INCH (1") IN THEIR LONGEST DIMENSION.
- THE 'WORK EXCLUSION ZONE' SHOWN SHALL NOT BE ENTERED BY THE CONTRACTOR'S WORKMEN OR SUB-CONTRACTOR'S WORKMEN OR MACHINERY OR EQUIPMENT OF ANY TYPE, ALL WORK SHALL OCCUR OUTSIDE OF THIS ZONE.
- PRUNING OF TREES SHALL ONLY OCCUR IF DIRECTED BY THE OWNER REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF TREES, SHRUBS, AND OTHER PLANT MATERIALS THAT ARE TO REMAIN WITHIN THE LIMITS OF WORK. PLANT MATERIALS WHICH ARE DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IF THE OWNER'S REPRESENTATIVE DETERMINES THAT DAMAGE COMMITTED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTORS, AGENTS, ETC. PRECLUDES MEASURES TO SAVE THE PLANTS. TREES SHALL BE REPLACED ON A CALIPER INCH PER CALIPER INCH BASIS; THE MINIMUM CALIPER REPLACEMENT TREES SHALL BE 3" CALIPER.
- ALL GRADES SHALL BE FIELD VERIFIED BY THE CONTRACTOR ON THE SITE AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- ALL WALKWAYS SHALL BE STAKED ON APPROVED FINISH GRADE, AND SHALL BE POURED TO ENSURE POSITIVE 1%- 2% SHEET DRAINAGE ACROSS WALKS, COMPLYING WITH THE NATURAL DRAINAGE PATTERNS ON-SITE.
- LONGITUDINAL SLOPE ON ALL PEDESTRIAN WALKWAYS AND TRAILS SHALL NOT EXCEED 4.9%. CROSS SLOPE ON ALL PEDESTRIAN PAVEMENTS SHALL NOT EXCEED 2%.
- ALL GRADING SHALL PROVIDE FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. FLOW LINES SHALL BE ACCURATELY SET AND SHALL NOT BE LESS THAN 1.0% GRADIENT IN LANDSCAPE AREAS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE DRAINAGE IN ALL PLANTING AND TURF AREAS.
- THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE TURFED.

### SITWORK NOTES CONTINUE:

- ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION.
- THE CONTRACTOR SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO PAINT, OIL, SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE LIMITS-OF-WORK. SUCH MATERIAL SHALL BE LEGALLY DISPOSED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL CONFORM ACTIVITIES TO THE SWPPP AS SPECIFIED, INCLUDING INSTALLING, MAINTAINING, AND REMOVING POLLUTION CONTROLS, CONDUCTING AND DOCUMENTING INSPECTIONS OF POLLUTION CONTROLS, SPRINKLING FOR DUST CONTROL, MAINTAINING SPILL RESPONSE EQUIPMENT ON-SITE, AND "GOOD HOUSEKEEPING". POLLUTION CONTROLS INCLUDE SILT FENCES (OR STRAW BALES), STABILIZED CONSTRUCTION ENTRANCE, ESTABLISHING GRASS, SPRINKLING FOR DUST CONTROL.
- THE CONTRACTOR SHALL MAINTAIN THE EXISTING WATER MAINS AND SERVICES IN OPERATION WHEN INSTALLING THE PROPOSED IRRIGATION SYSTEM. THIS SHALL INCLUDE ANY TEMPORARY CONNECTIONS, IF REQUIRED.
- THE CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING CITY UTILITIES PRIOR TO INSTALLING PROJECT ELEMENTS.
- DURING CONSTRUCTION, ALL DRAINAGE DITCHES, CHANNELS, ETC. SHALL BE KEPT DRAINED, INSOFAR AS PRACTICABLE, AND THE WORK SHALL BE CONDUCTED IN A NEAT WORKMANLIKE MANNER.
- DISCREPANCIES, IF ANY, SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE WORK COMMENCES.

#### TRAFFIC CONTROL GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL AND WATCHMEN TO COMPLETE THE PROPOSED WORK.
- PRIOR TO CLOSING ANY LANES ON RUFÉ SNOW DRIVE THE CONTRACTOR SHALL SUBMIT THEIR TRAFFIC CONTROL PLAN AND CONTACT THE CITY OF KELLER PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL ONLY CLOSE THE LANES OF RUFÉ SNOW DRIVE WHILE CONSTRUCTION IS IN PROGRESS. ALL LANES SHALL BE RETURNED TO SERVICE AT THE END OF EACH WORK DAY.

#### CONCRETE FLUSHING NOTES:

- THE CONTRACTOR SHALL FURNISH CONTAINMENT AREAS FOR RESIDUAL CONCRETE FROM CONCRETE TRUCKS AND FLUSHING OF CONCRETE CHUTES, PUMP HOSES ETC.

### EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING SOLID SOD COMMON BERMUDA GRASS TO ANY DISTURBED PORTIONS OF THE SITE. IF AREAS OUTSIDE OF THE LIMITS-OF-WORK ARE DISTURBED THE CONTRACTOR SHALL RETURN THE DISTURBED AREAS TO THEIR PRE-CONSTRUCTION CONDITION AS WELL AS PLACE AND ESTABLISH SOLID SOD COMMON BERMUDA GRASS ON THE DISTURBED AREAS.
- SILTATION BARRIERS IN SWALES SHALL BE PLACED WITHIN (2) DAYS OF COMPLETION OF ROUGH GRADING.
- THE CONTRACTOR IS RESPONSIBLE FOR INTERIM SEEDING OF THE DISTURBED PORTIONS OF THE SITE.
- DURING CONSTRUCTION THE CONTRACTOR SHALL PROHIBIT CLEANING, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS UNDER THE CANOPY OF ANY EXISTING TREES, REFERENCE NOTE #14 UNDER 'SITEWORK NOTES'.
- THE CONTRACTOR SHALL NOT ALLOW THE DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO PAINT, OIL, SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE LIMITS-OF-WORK. SUCH MATERIAL SHALL BE LEGALLY DISPOSED AT THE CONTRACTOR'S EXPENSE.
- TREE PROTECTION FENCING SHALL CONSIST OF FOUR-FOOT (4) HEAVY DUTY ORANGE PLASTIC FENCING WITH A DIAMOND MESH PATTERN. PLACE 6' METAL POST SUPPORTS AT 10' O.C., 2' MINIMUM EMBEDMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, FERTILIZING AND MAINTAINING GRASS UNTIL THE GRASS IS DEEMED ESTABLISHED
- ALL EROSION CONTROL MEASURES MUST BE REMOVED FROM THE SITE PRIOR TO FINAL ACCEPTANCE BY THE CITY, UNLESS OTHERWISE STIPULATED BY CITY STAFF.

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5/29/2020

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City of Keller, Texas

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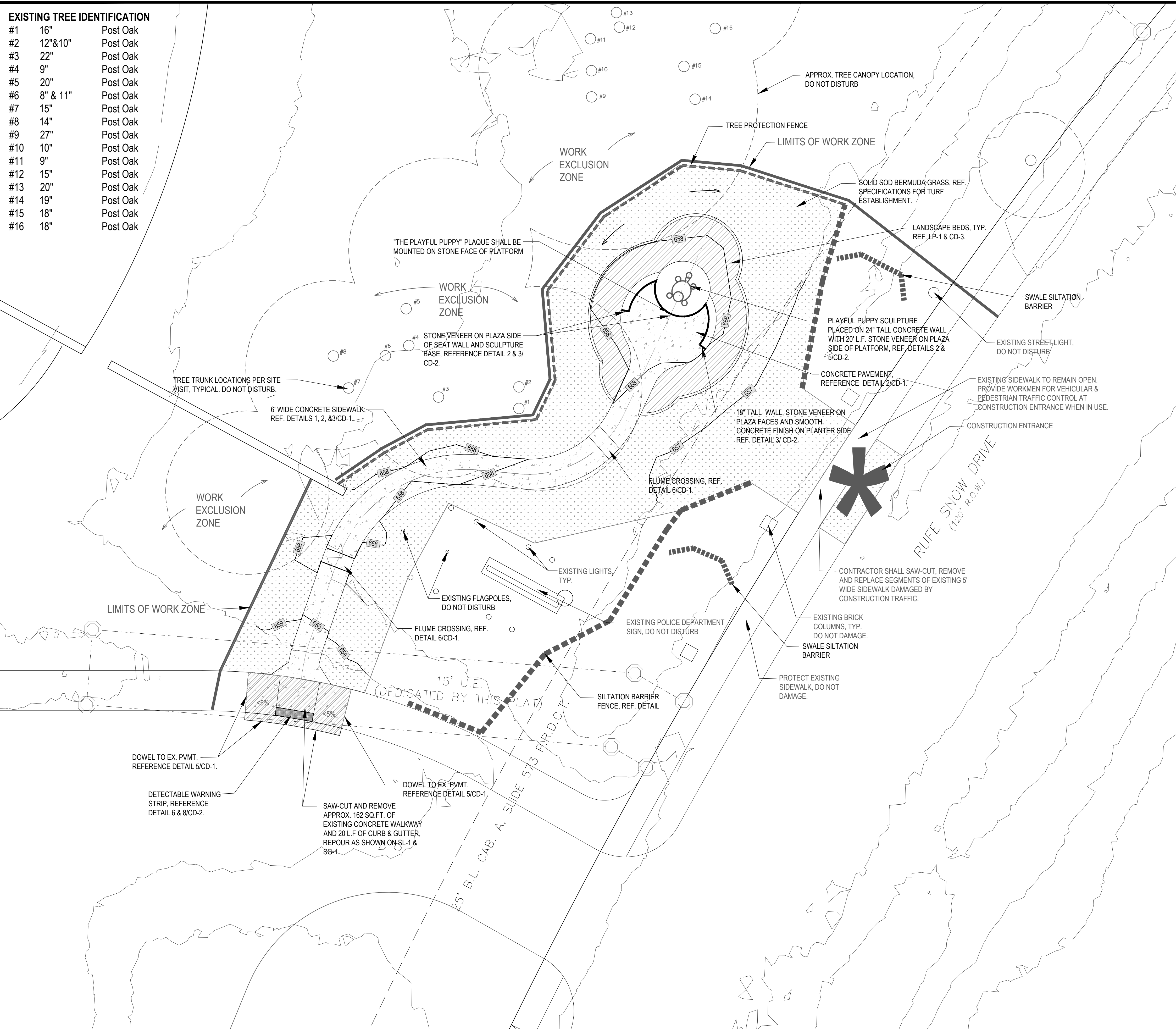
Revisions:  
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General Notes  
GN-1

Millstone Park Improvements

**EXISTING TREE IDENTIFICATION**

#1	16"	Post Oak
#2	12" & 10"	Post Oak
#3	22"	Post Oak
#4	9"	Post Oak
#5	20"	Post Oak
#6	8" & 11"	Post Oak
#7	15"	Post Oak
#8	14"	Post Oak
#9	27"	Post Oak
#10	10"	Post Oak
#11	9"	Post Oak
#12	15"	Post Oak
#13	20"	Post Oak
#14	19"	Post Oak
#15	18"	Post Oak
#16	18"	Post Oak



**SITE KEY MAP:**



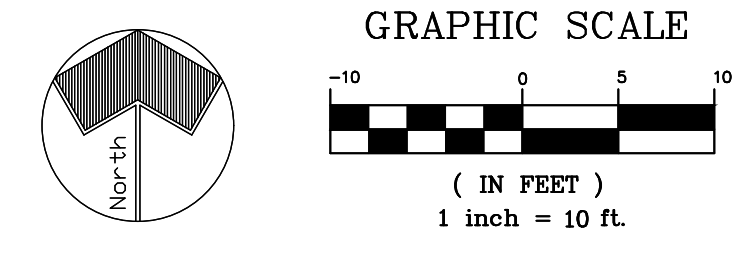
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**LEGEND**

- LIMITS OF WORK ZONE
- TREE PROTECTION FENCING
- SILTATION BARRIER
- SWALE SILTATION BARRIER
- SOLID SOD
- PROPOSED 5" THICK CONCRETE, 4,000 PSI, #3 REBAR 14" O.C.B.W.
- CONSTRUCTION ENTRANCE, REFERENCE DETAIL SHEET CD-5.

**NOTE:**  
THE EXACT PLACEMENT OF THE TREE PROTECTION AND SILTATION BARRIER SHALL BE DETERMINED ON-SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE THE TOTAL LENGTH OF SILTATION BARRIER REQUIRED VIA INSPECTION OF THE PLANS AND SITE VISITS.

ALL DISTURBED AREAS SHALL RECEIVE COMMON BERMUDA GRASS SOLID SOD.



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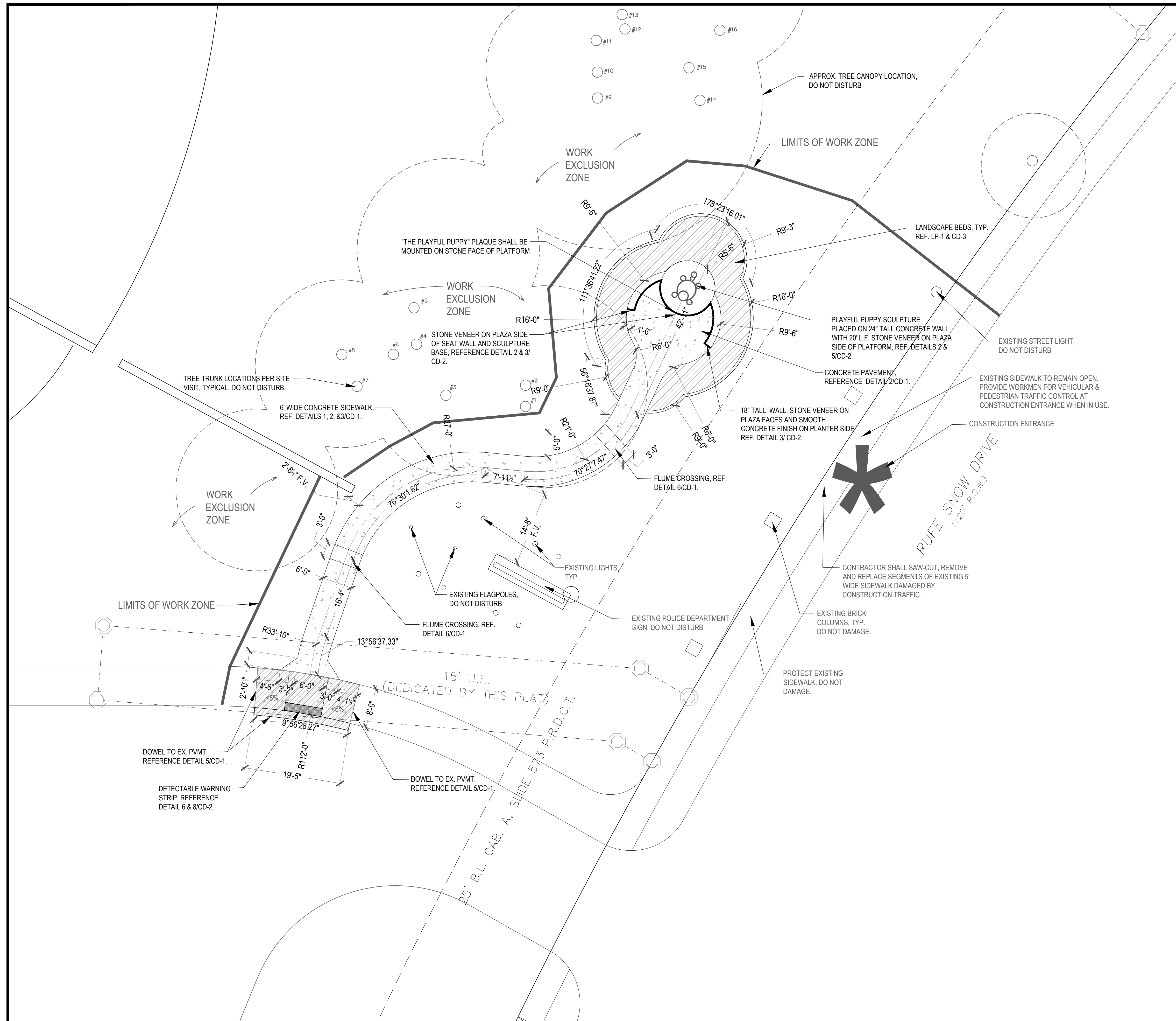
**'The Playful Puppy' Sculpture Plaza**  
City of Keller, Texas

Issue Date:  
MAY 29, 2020

Revisions:

Site Preparation/  
Erosion Control

SP/EC-1



**SITE KEY MAP:**



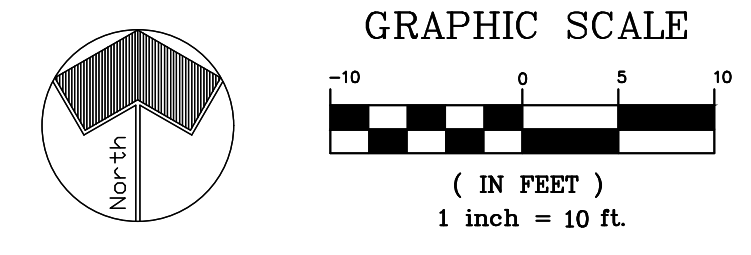
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**LEGEND**

- PROPOSED 5" THICK CONCRETE, 4,000 PSI, #3 REBAR 14" O.C.B.W.
- LIMITS OF WORK ZONE EXCLUSION FENCE
- F.V. FIELD VERIFY

**NOTE:**  
 ALL WALKWAY AND CONCRETE FLATWORK PAVEMENT SHALL BE 5" THICK MINIMUM.

ALL PORTIONS OF THE WALKWAY & CONCRETE FLATWORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE 2010 ADA'S STANDARD OF ACCESSIBLE DESIGN, U.S. DEPARTMENT OF JUSTICE AND THE 2012 TEXAS ACCESSIBILITY STANDARDS; SPECIFICALLY, BUT NOT EXCLUSIVELY THE MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED FIVE PERCENT (5%) THE MAXIMUM CROSS SLOPE SHALL NOT EXCEED TWO PERCENT (2%) AND AT THE INTERSECTION OF TRAILS THE SLOPE SHALL NOT EXCEED TWO PERCENT (2%) IN ANY DIRECTION; LONGITUDINAL, CROSS AND/OR DIAGONALLY.



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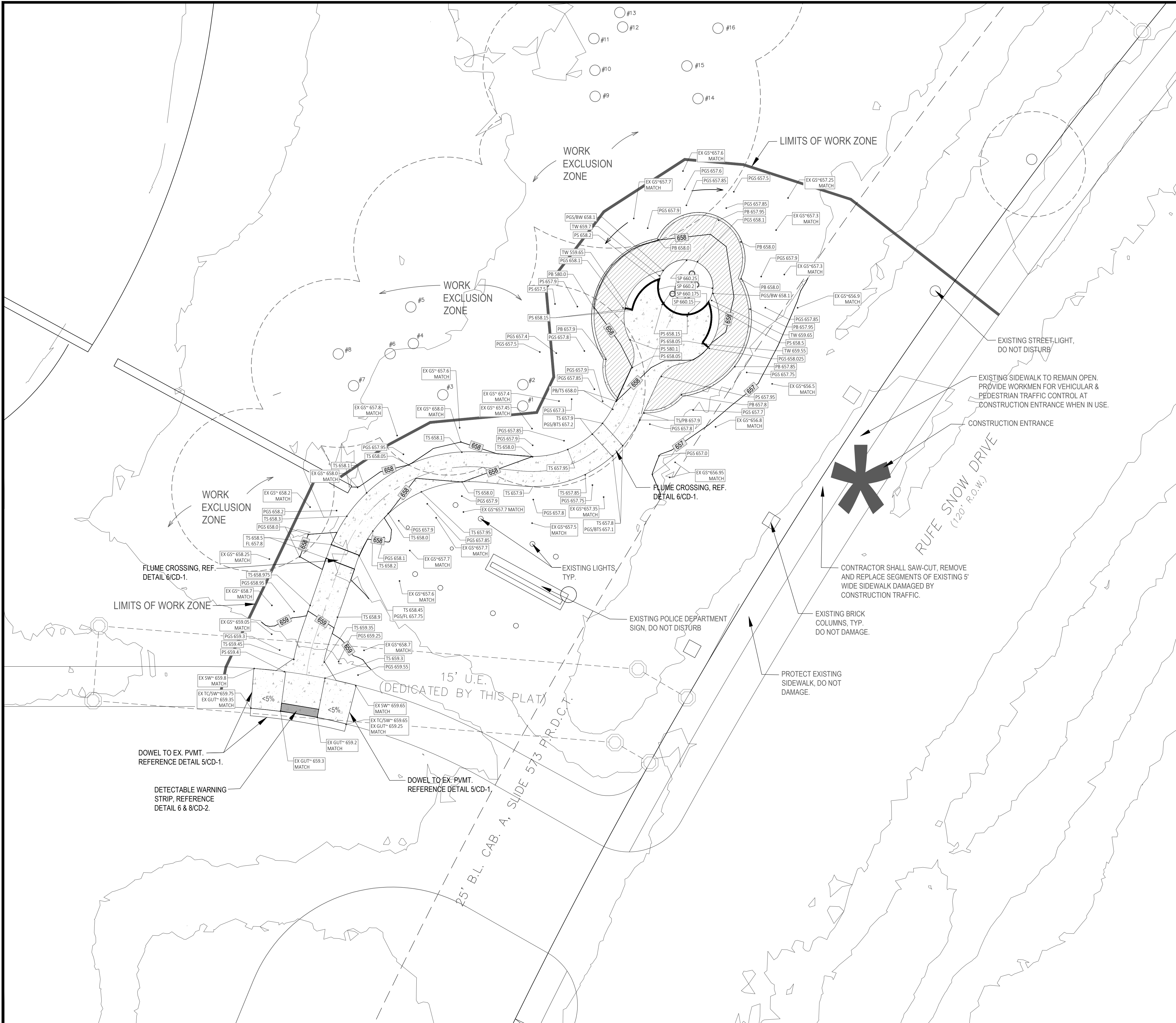
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Site Layout Plan

SL-1



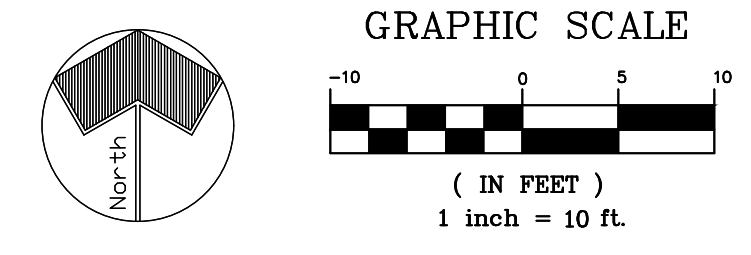
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**GRADING LEGEND**

- 101 PROPOSED CONTOUR
- 101 EXISTING CONTOUR
- PROPOSED 5" THICK CONCRETE, 4,000 PSI, #3 REBAR 14" O.C.B.W.
- PGS 583.8 PROPOSED SPOT ELEVATIONS
- PS PAVEMENT SURFACE
- TS TRAIL SURFACE
- PGS PROPOSED GROUND SURFACE
- EX EXISTING GROUND SURFACE
- SW SIDEWALK
- PB PLANTER BORDER SURFACE OF PLATFORM
- SP TOP OF WALL
- BW BOTTOM OF WALL
- LIMITS OF WORK ZONE



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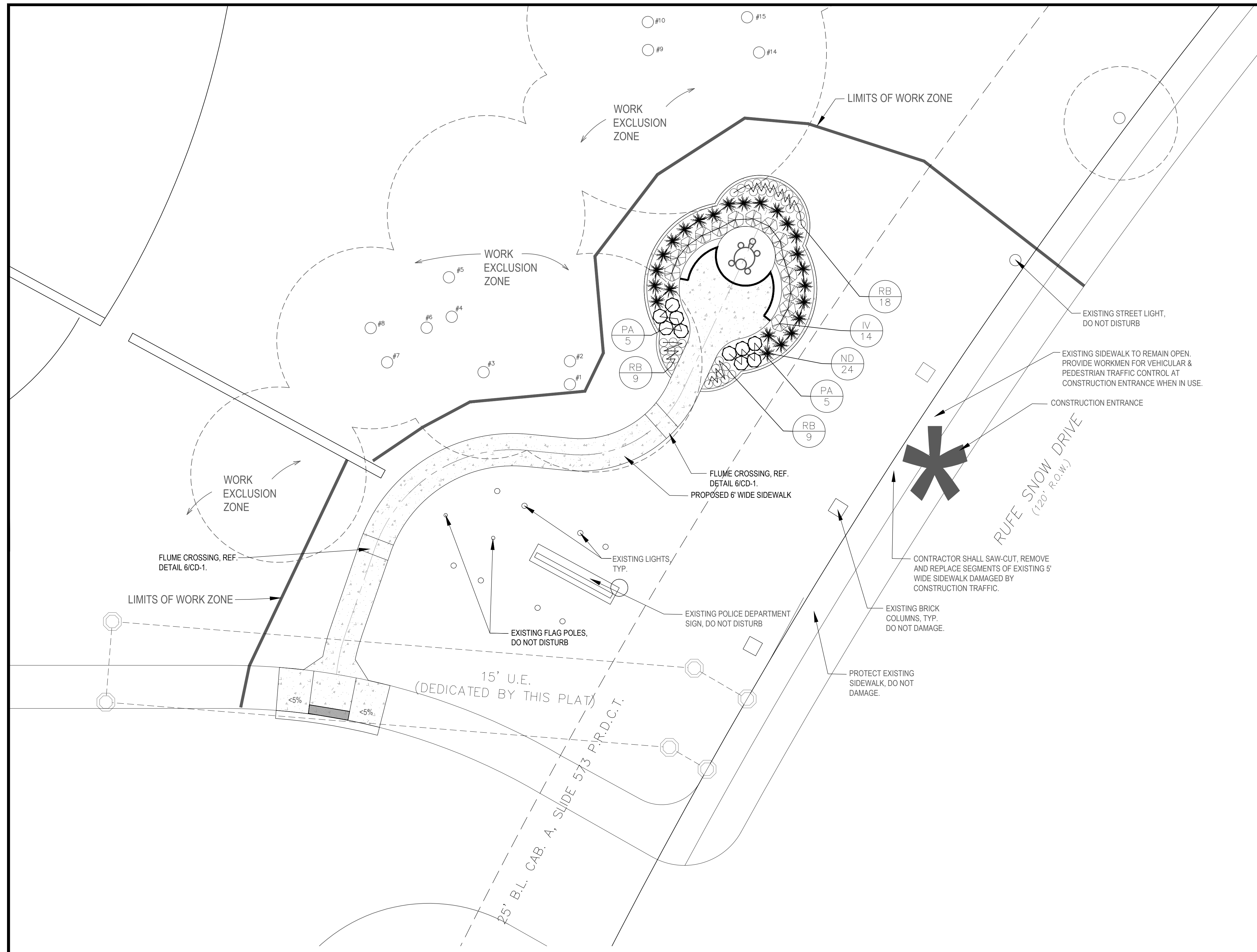
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Site Grading Plan

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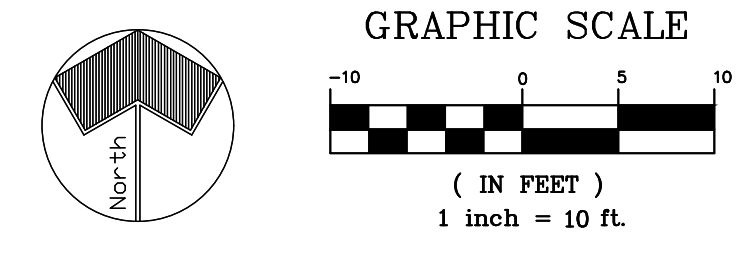
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**LANDSCAPE SYMBOL KEY & LEGEND**

Qty.	Sym.	Scientific Name	Common Name	Size
<i>Shrubs</i>				
14	IV	<i>Ilex vomitoria 'Nana'</i>	Dwf Yaupon Holly	5 Gal.
24	ND	<i>Nandina domestica 'Gulfstream'</i>	Gulfstream Nandina	5 Gal.
10	PA	<i>Pennisetum alopecuroides 'Moudry'</i>	Moudry Fountain Grass	10 Gal.
36	RB	<i>Ruellia brittoniana 'Kate'</i>	Mexican Petunia 'Kate'	1 Gal.



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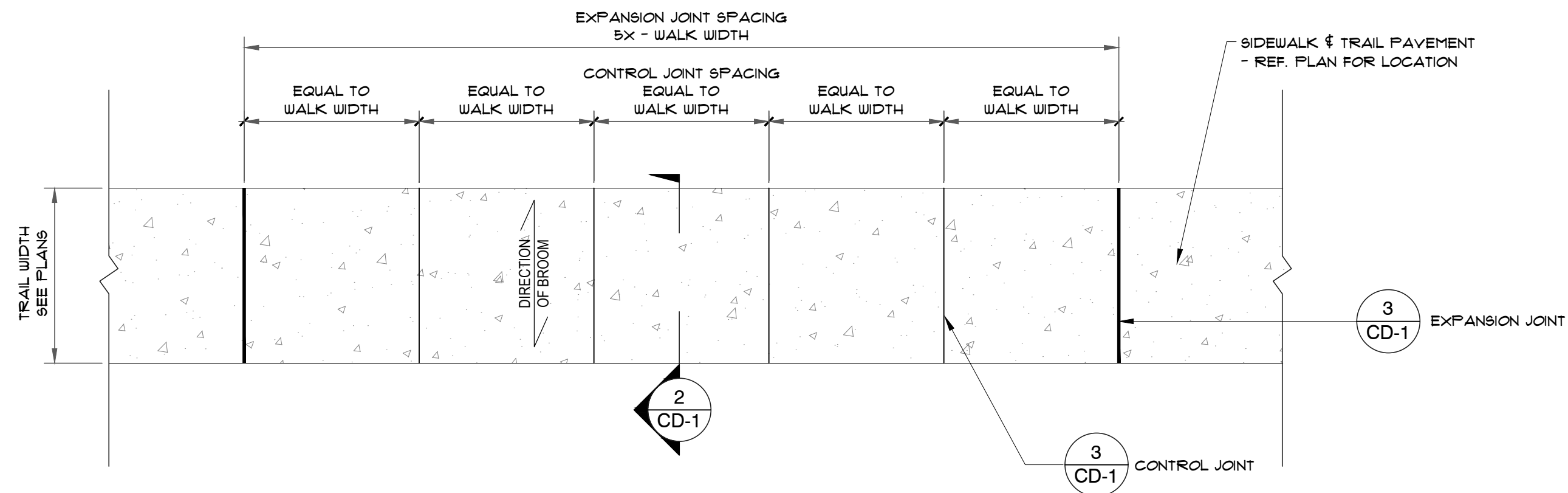
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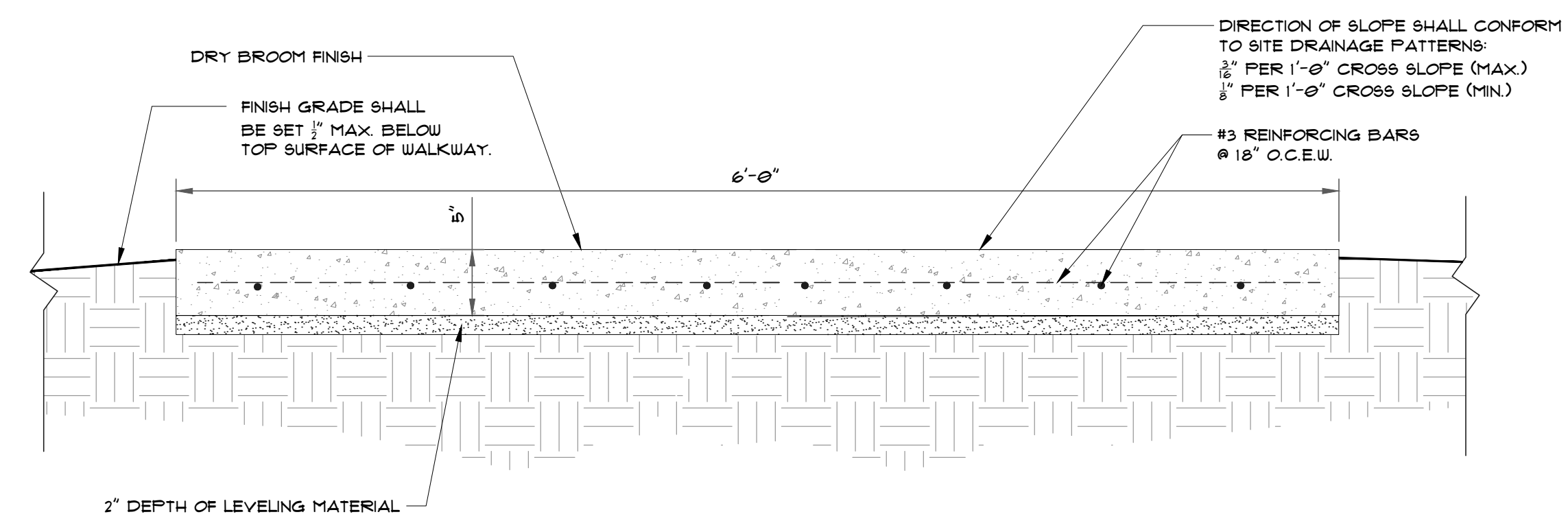
**Site Landscaping Plan**

**LP-1**

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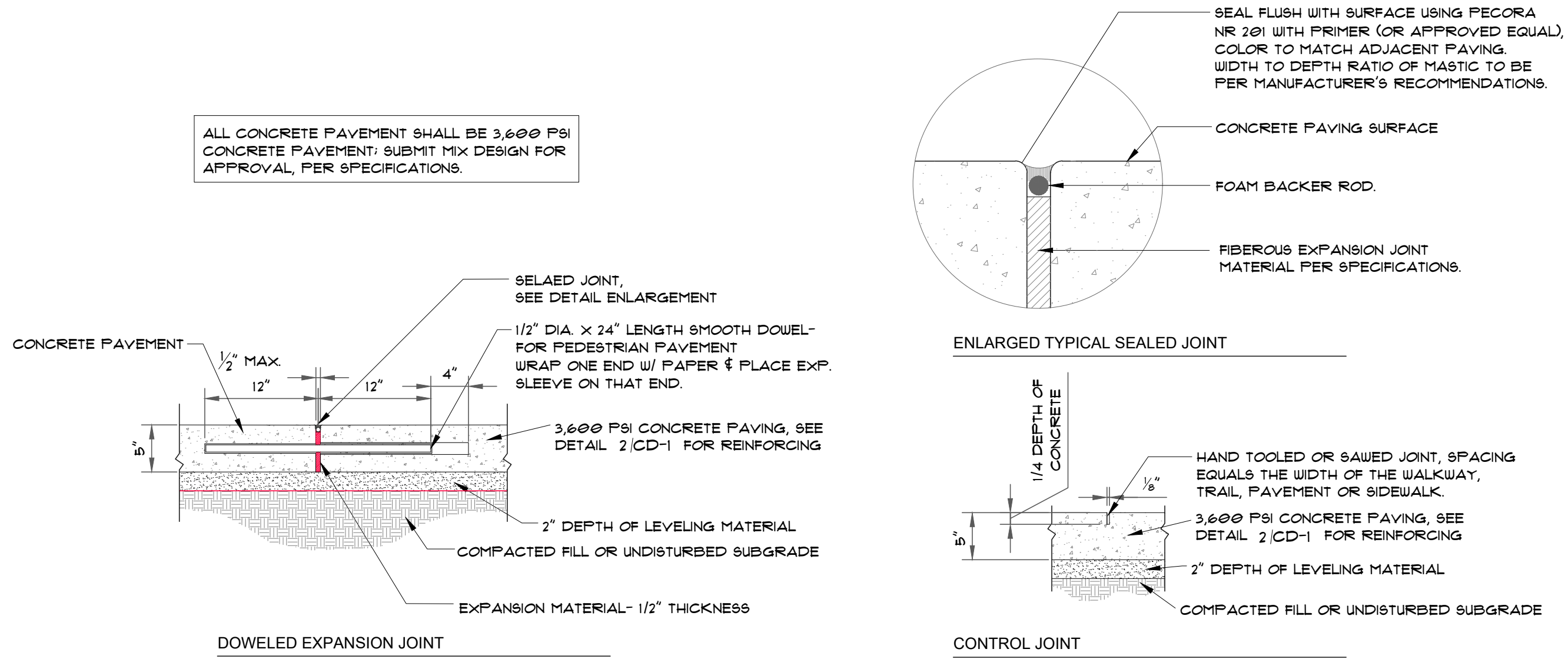


**1** PLAN: TYPICAL WALKWAY/SIDEWALK/TRAIL PAVEMENT  
 $3/8" = 1'-0"$   
 P-WI-03

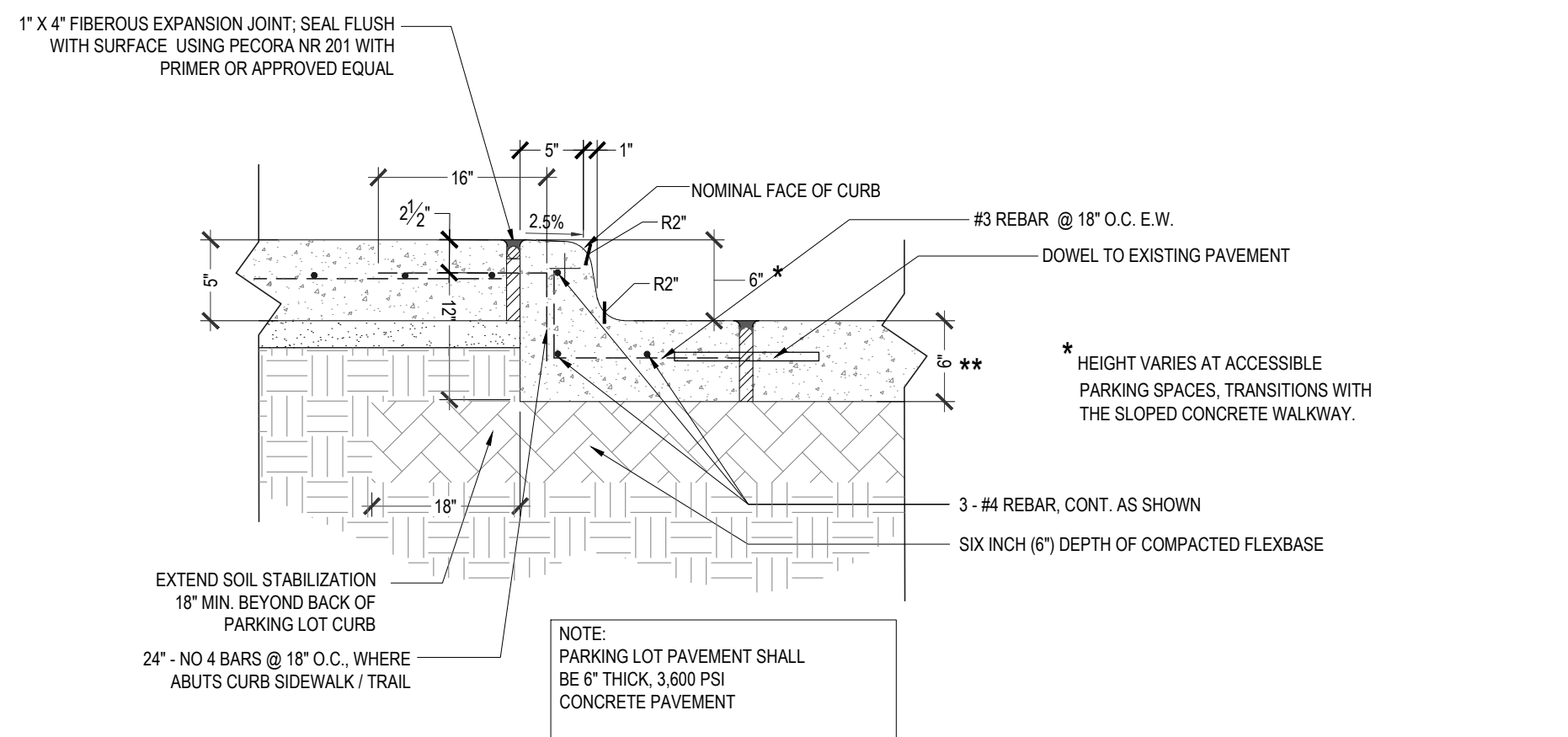


**2** SECTION: CONCRETE PLAZA / WALKWAY PAVEMENT  
 $1/12" = 1'-0"$   
 P-WI-04

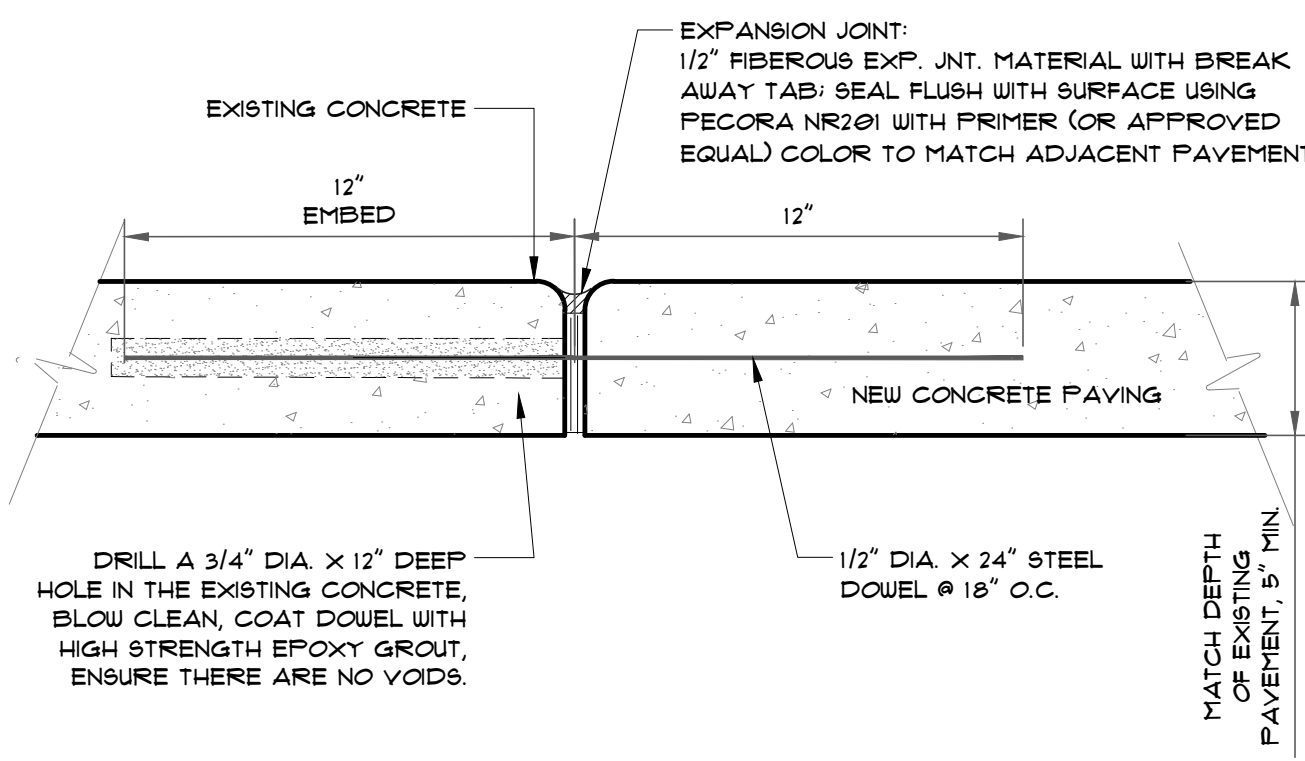
ALL CONCRETE PAVEMENT SHALL BE 3,600 PSI  
 CONCRETE PAVEMENT. SUBMIT MIX DESIGN FOR  
 APPROVAL, PER SPECIFICATIONS.



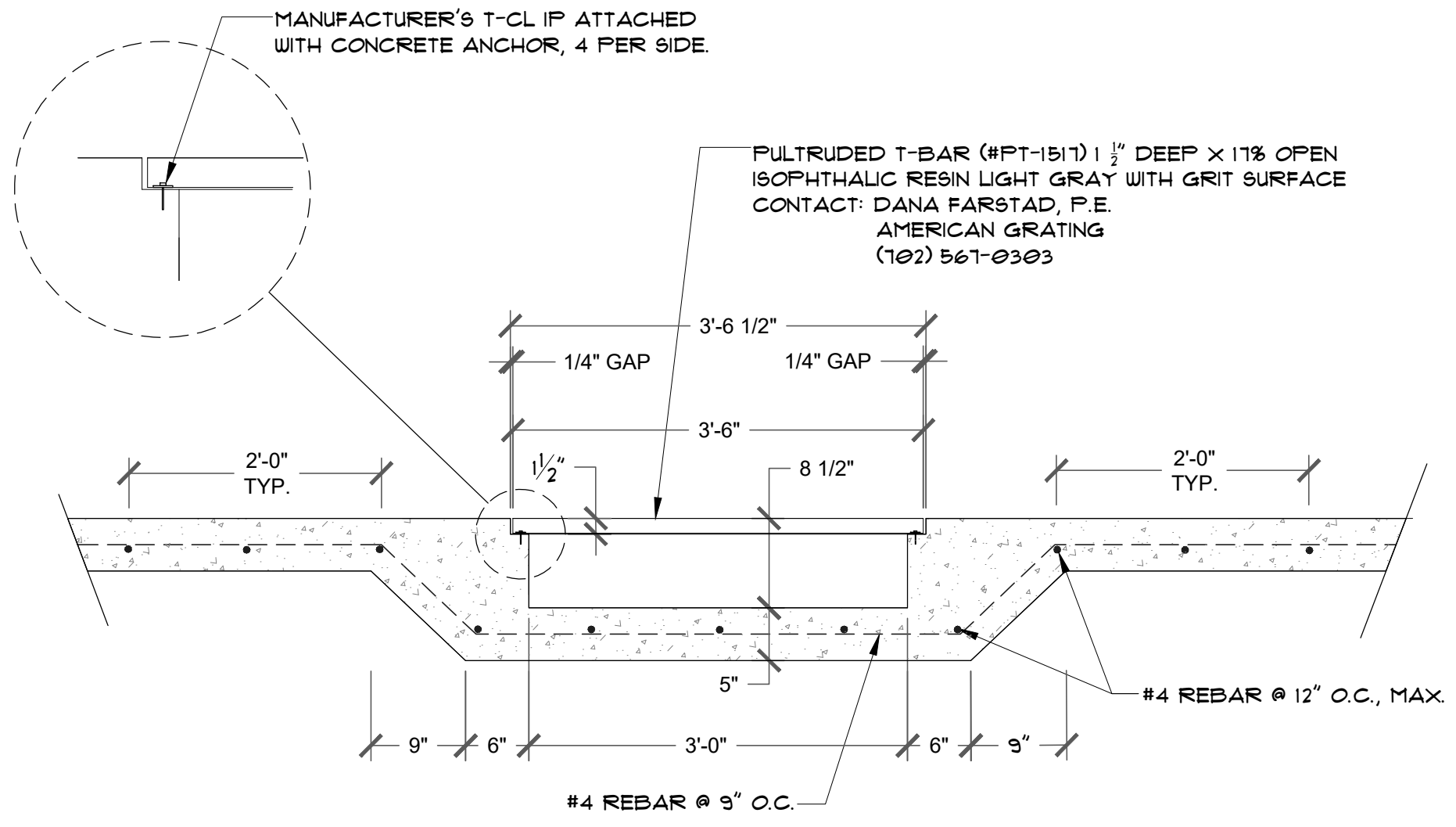
**3** DETAIL: CONCRETE PLAZA / WALKWAY PAVEMENT JOINTING  
 $1" = 1'-0"$   
 P-WI-05



**4** SECTION: ADJACENT TO WALKWAY CURB  
 $1" = 1'-0"$   
 32131316-03



**5** CONCRETE JOINT AT EXISTING PAVEMENT  
 $3" = 1'-0"$   
 32131313-03



**6** SECTION: FLUME CROSSING  
 SCALE:  $1" = 1'-0"$

**Dunkin  
 Sims  
 Stoffels,  
 Inc.**

LANDSCAPE ARCHITECTS/PLANNERS  
 622 WEST STATE STREET  
 GARLAND, TEXAS 75040  
 PHONE: (214) 593-5118  
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5/29/2020  
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 ROBERT P. STOFFELS, LA #1025 ON MAY 28, 2020.

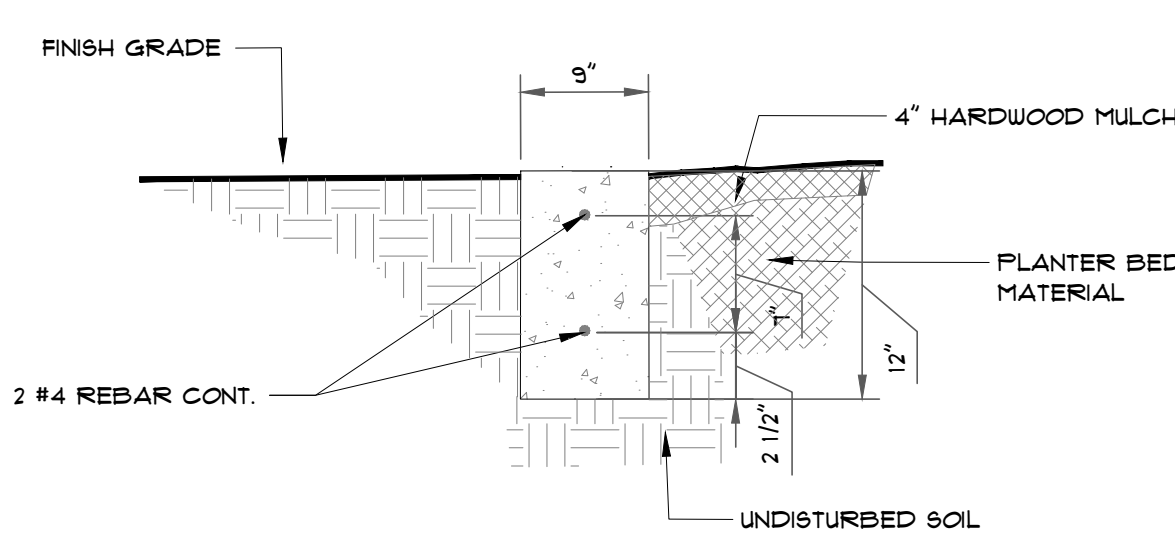
**'The Playful Puppy' Sculpture Plaza**  
 City of Keller, Texas

Issue Date:  
 MAY 29, 2020

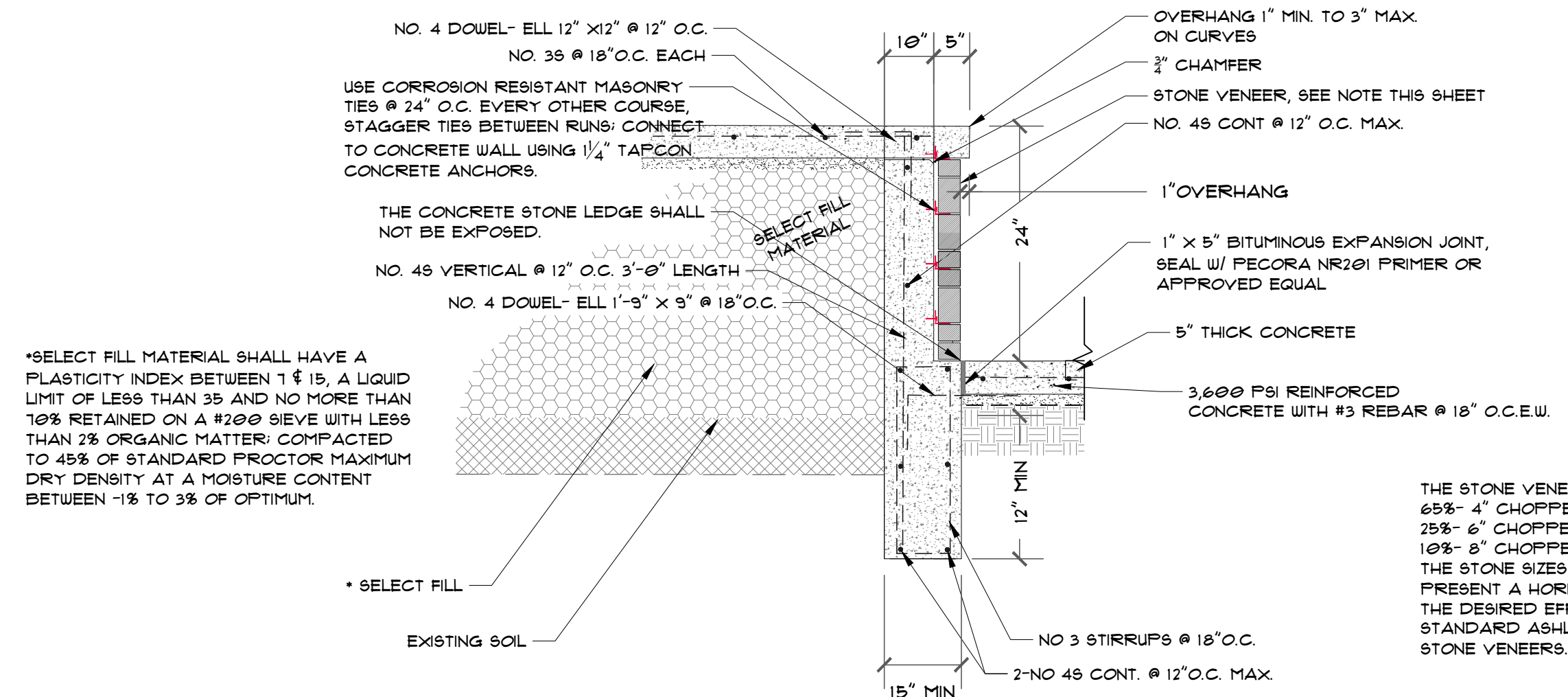
Revisions:  
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Construction Details  
**CD-1**

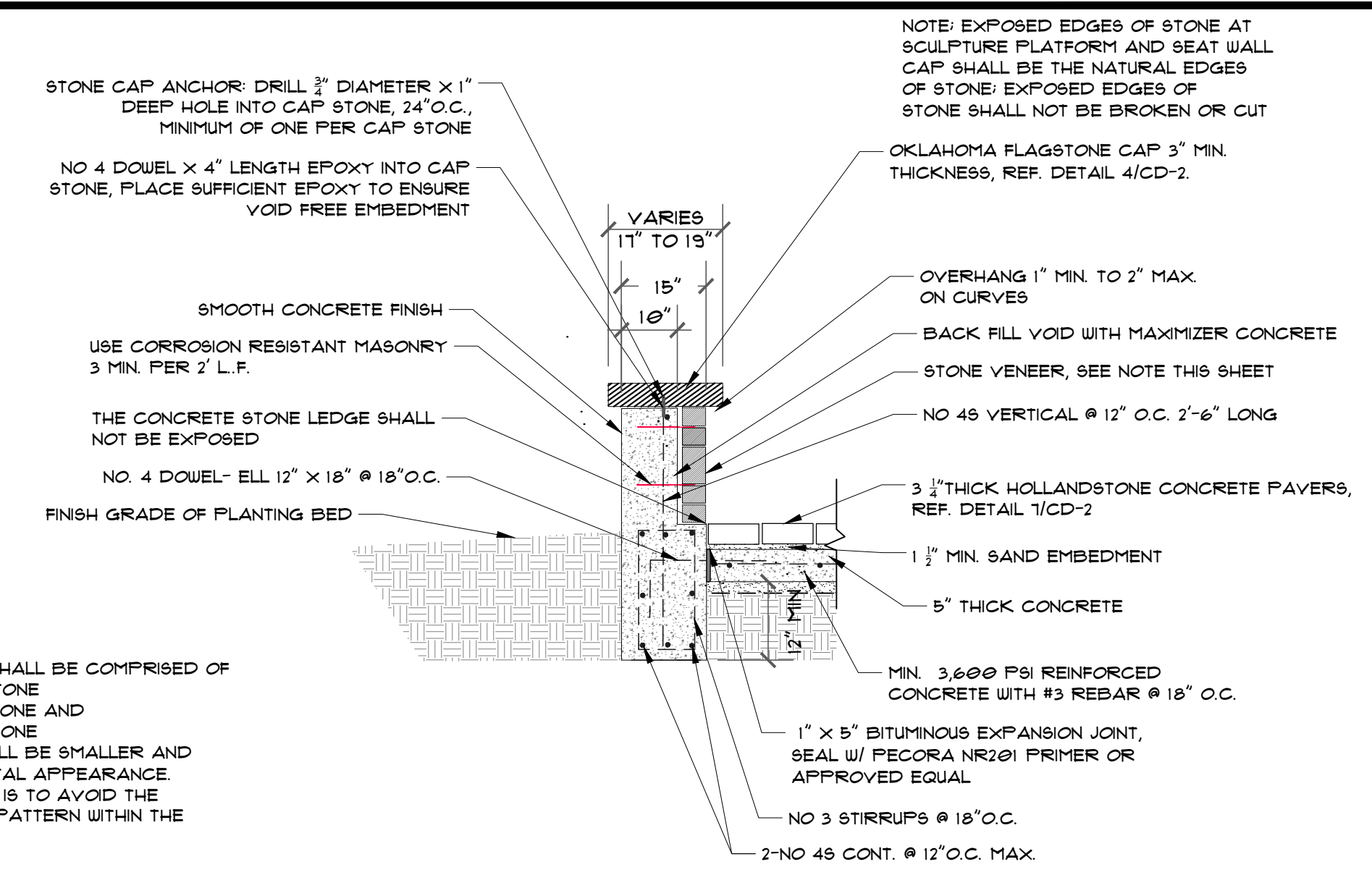
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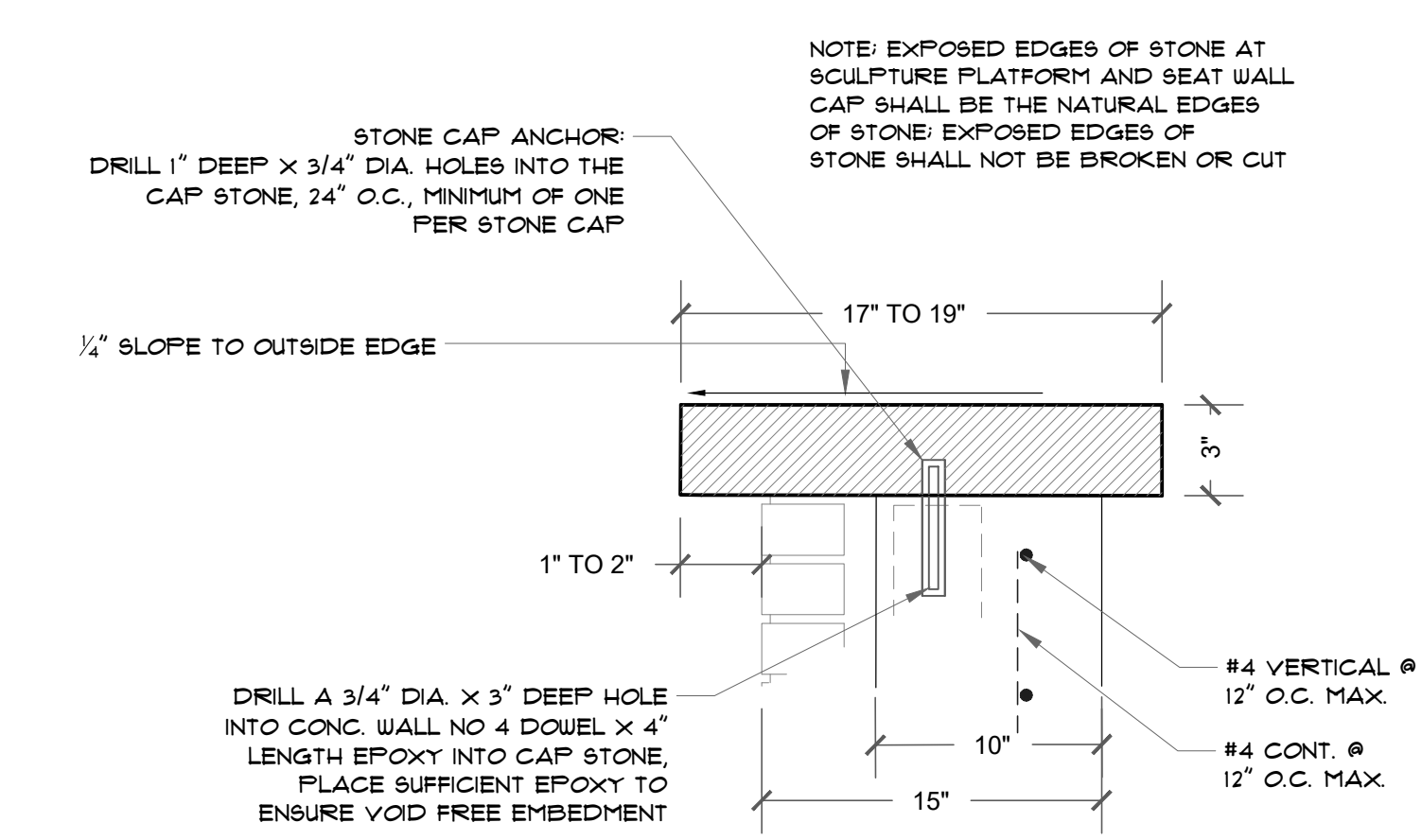
**1** SECTION: PLANTER BED BORDER  
N.T.S. DETAIL-FILE



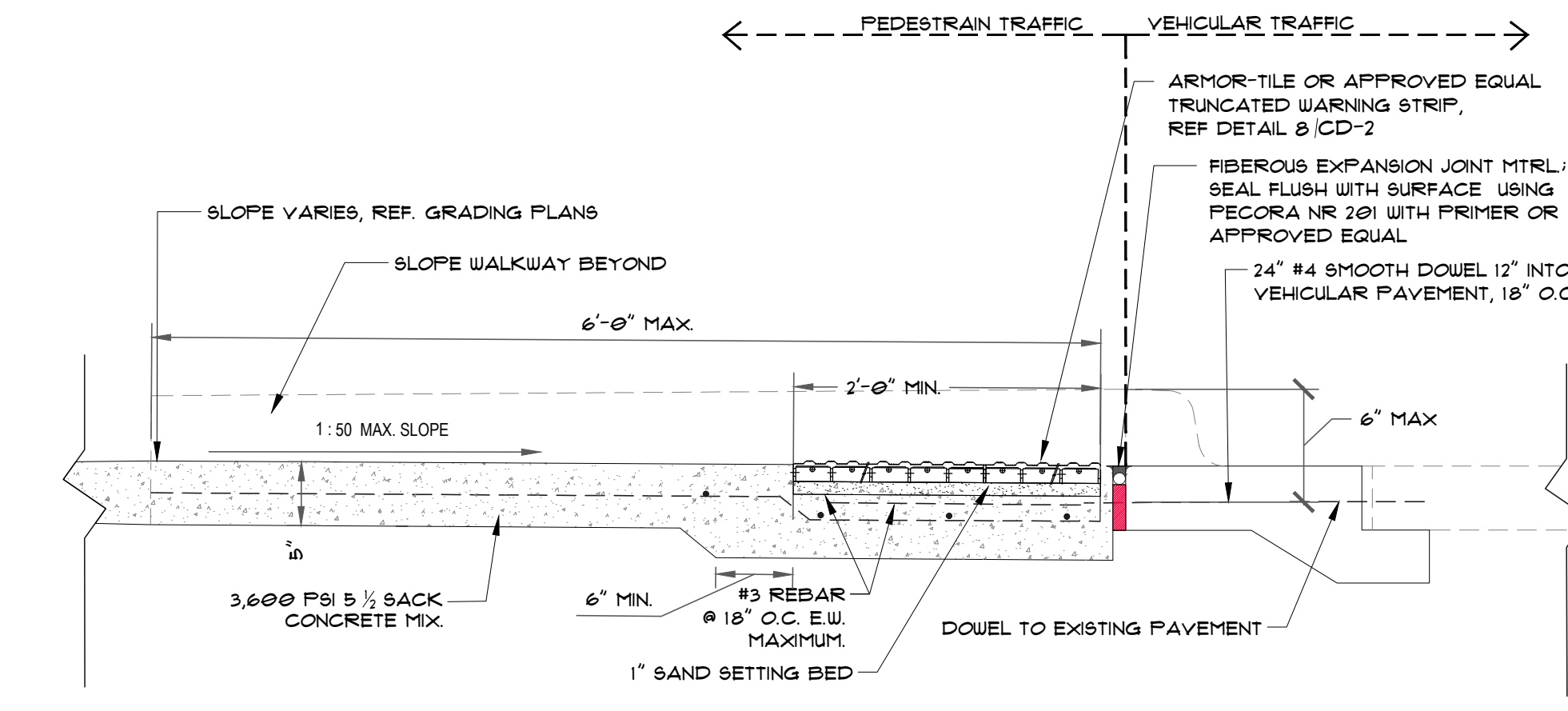
**2** SECTION: SCULPTURE PLATFORM @ PLAZA  
N.T.S.



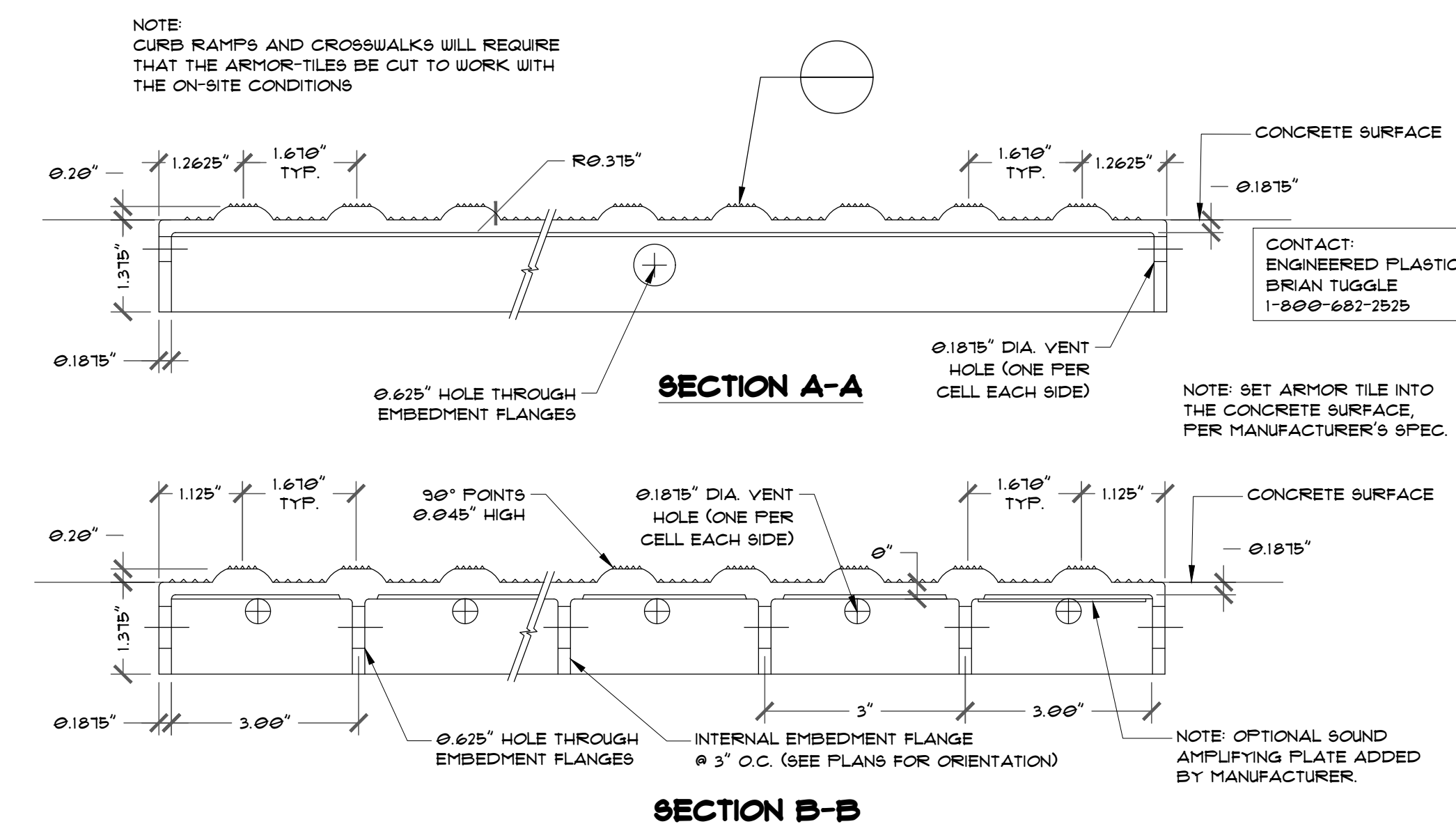
**3** SECTION: SHORT WALL DETAIL  
N.T.S.



**4** DETAIL: STONE CAP  
N.T.S.



**5** DETAIL: WALKWAY AT PARKING LOT  
1" = 1'-0" P-MI-35



**6** SECTION: \* ARMOR-TILE - DETECTABLE WARNING STRIPS  
6" = 1'-0" \* OR APPROVED EQUAL P-MI-34

**Dunkin Sims Stoffels, Inc.**  
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REGISTERED LANDSCAPE ARCHITECT  
 ROBERT P. STOFFELS  
 STATE OF TEXAS  
 1025  
 5/29/2020  
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'The Playful Puppy' Sculpture Plaza  
 City of Keller, Texas

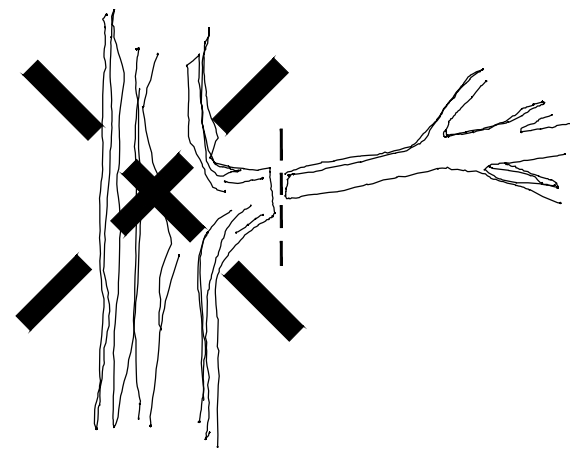
Issue Date:  
 MAY 29, 2020

Revisions:  
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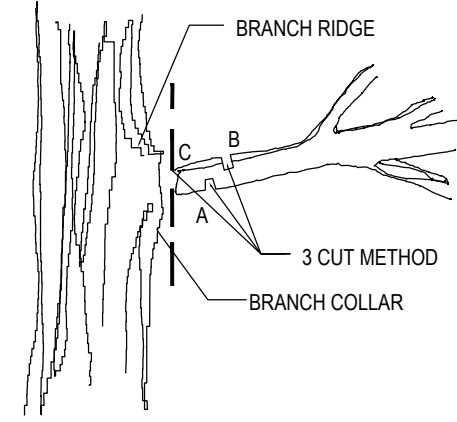
Construction Details  
 CD-2



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INCORRECT

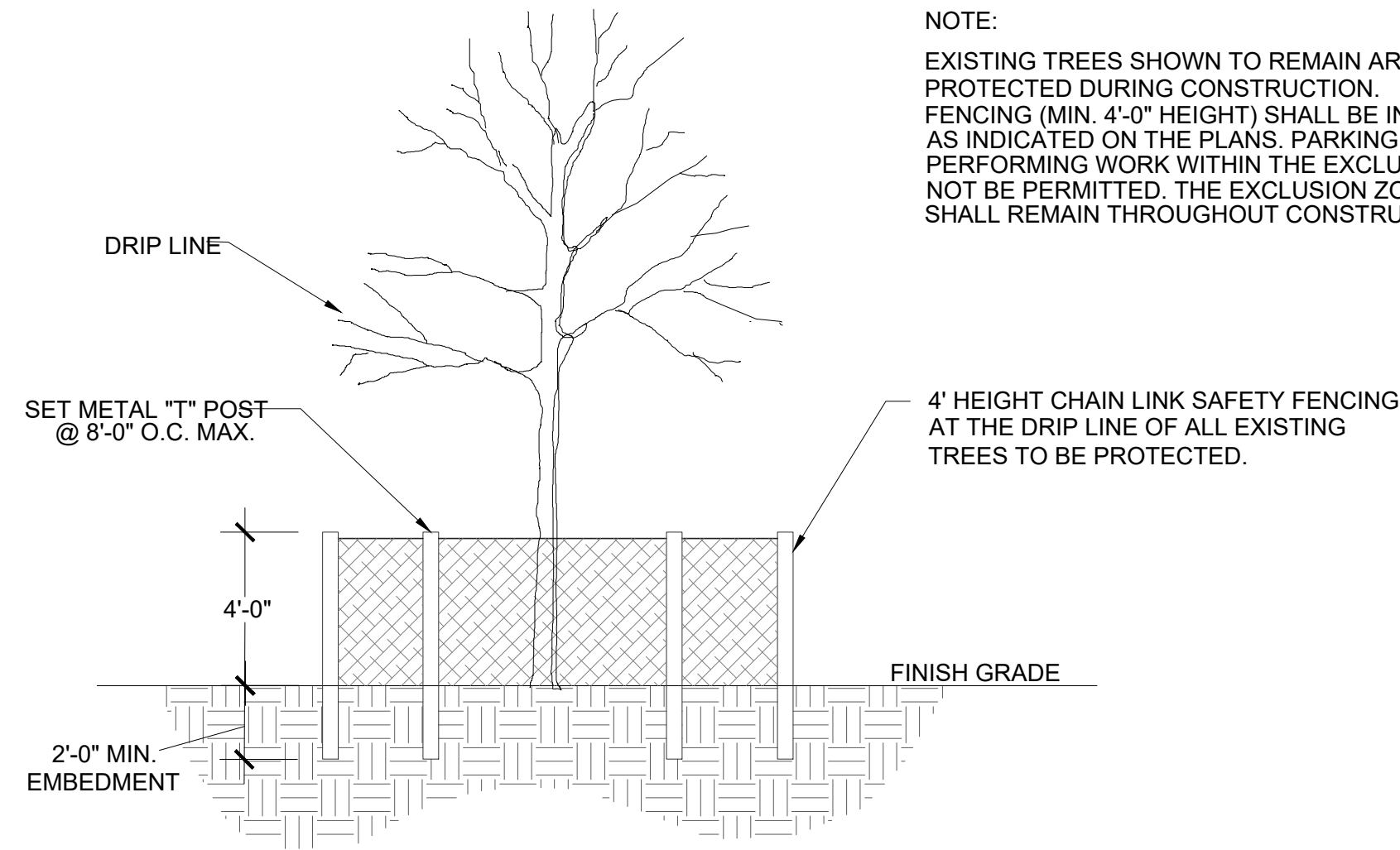


CORRECT

**PRUNING NOTES:**

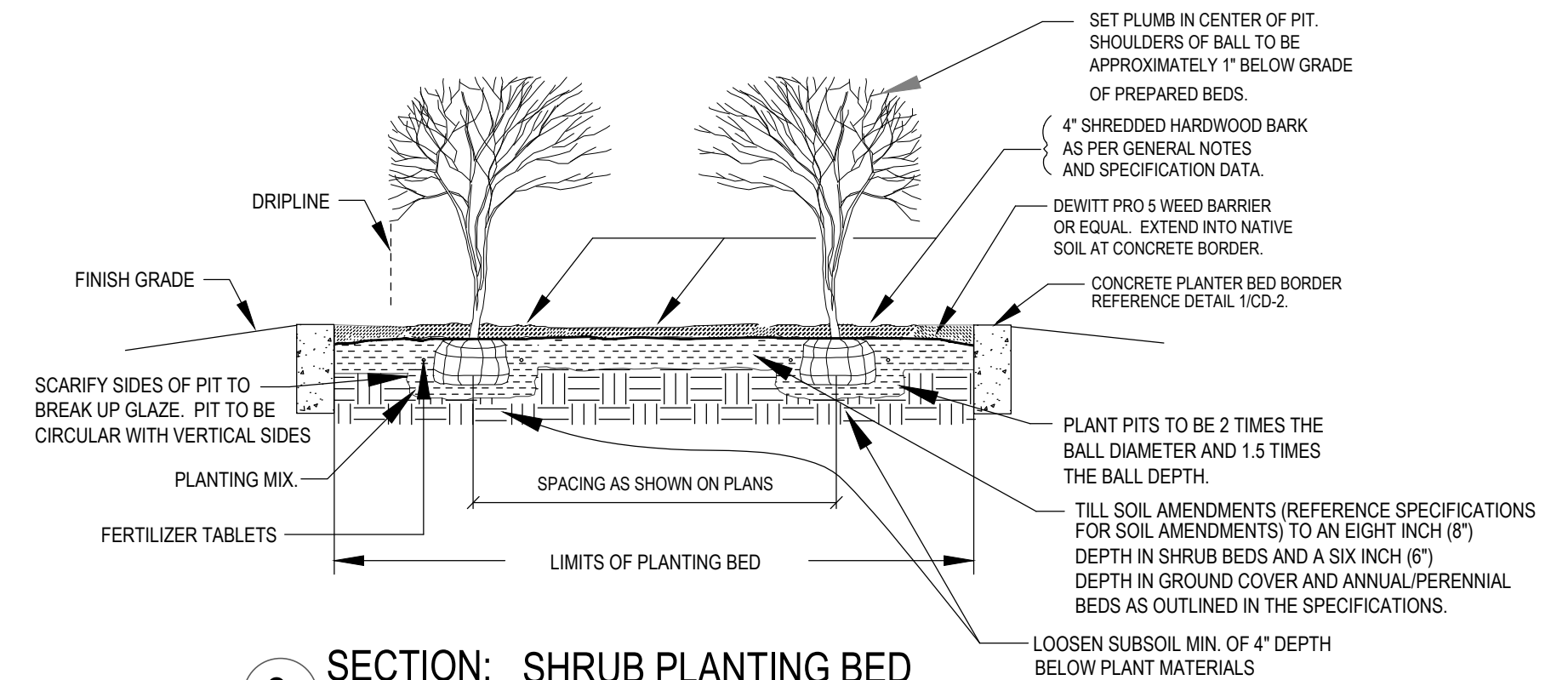
1. REMOVE ALL BROKEN, DISEASED, OR WEAK BRANCHES.
2. MAKE ALL CUTS AS CLOSE TO THE BRANCH COLLAR AS POSSIBLE-LEAVE NO STUBS.
3. DO NOT CUT A LEADER.
4. PRUNE SO AS TO RETAIN THE NATURAL FORM OF THE TREE.
5. REMOVE APPROXIMATELY 1/3 OF INTERIOR BRANCHING.
6. DO NOT TIP PRUNE.
7. CONTACT LANDSCAPE ARCHITECT PRIOR TO PRUNING FOR FURTHER INSTRUCTIONS.
8. CUTS OVER 1 1/2" DIAMETER MADE TO TREES OF THE OAK FAMILY (RED OAK, LIVE OAK, BUR OAK, ETC.) FROM FEBRUARY 15 - DECEMBER 15 SHALL BE PAINTED WITH TREE PRUNING PAINT IMMEDIATELY FOLLOWING PRUNING (1 HOUR MAX). APPLY SUFFICIENT COATS TO ENSURE SEALING OF THE CUT.
9. REMOVE LARGE LIMBS BY PERFORMING THE 3-CUT METHOD.

**1 DETAIL: TREE PRUNING**  
NOT TO SCALE



**2 SECTION: EXCLUSION ZONE FENCING**  
NOT TO SCALE

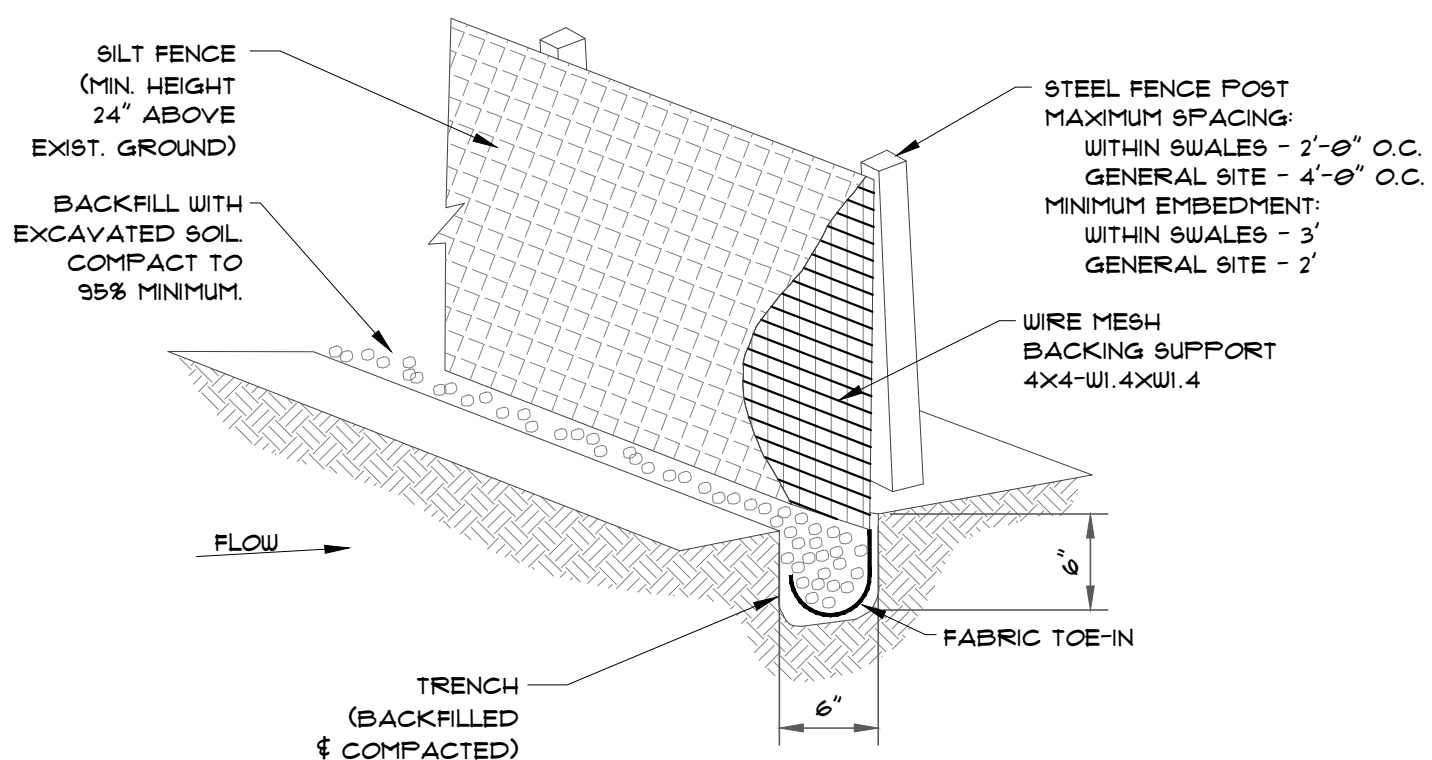
**NOTE:**  
EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AS INDICATED ON THE PLANS. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THE EXCLUSION ZONE WILL NOT BE PERMITTED. THE EXCLUSION ZONE FENCING SHALL REMAIN THROUGHOUT CONSTRUCTION.



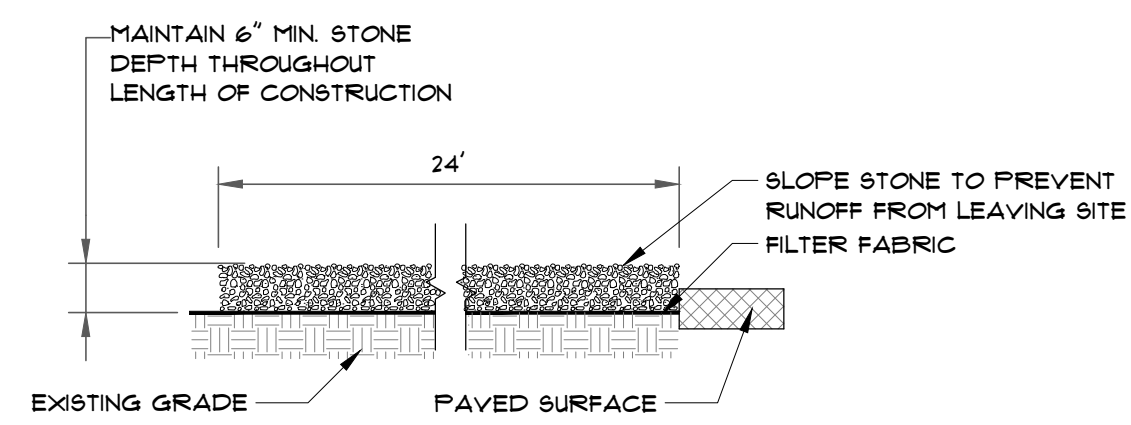
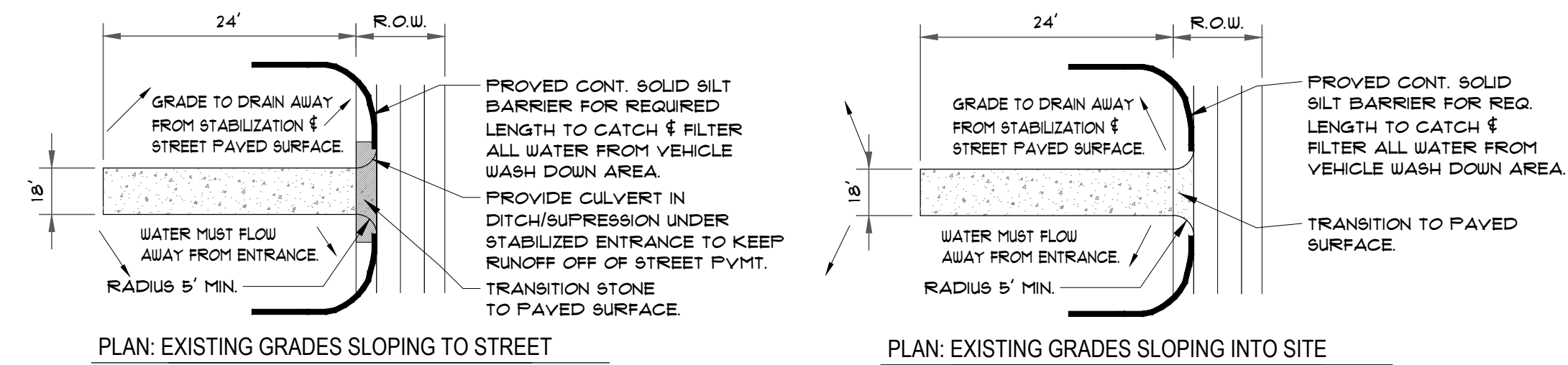
**3 SECTION: SHRUB PLANTING BED**  
NO SCALE

**FERTILIZER SCHEDULE: PLANTING**

TREES	SHRUBS AND PERENNIALS:
5-GALLON TREES 2 AGRIFORM 21 GRAM TABLETS	1-GALLON AND SMALLER 1 AGRIFORM 21 GRAM TABLET
15-GALLON TREES 3 AGRIFORM 21 GRAM TABLETS	3 TO 5-GALLON AND B&B MATERIAL WITH SPREADS TO THREE (3) FT. 2 AGRIFORM 21 GRAM TABLETS
>30-GALLON AND ALL B&B MATERIAL 1 AGRIFORM 21 GRAM TABLET PER EACH ONE-HALF (1/2) INCH DIAMETER	15-GALLON AND B&B MATERIAL WITH SPREADS GREATER THAN THREE (3) 3 AGRIFORM 21 GRAM TABLETS
SPACE TABLETS EVENLY AROUND ROOT BALL APPROX. 8" BELOW GRADE. PLACE NEXT TO BALL	PLACE TABLETS AT A DEPTH APPROX. 1/3 BALL DEPTH AND NEXT TO BALL.
* OR APPROVED EQUAL	* OR APPROVED EQUAL.



**4 SECTION: SILTATION BARRIER FENCE**  
1" = 1'-0"



**5 DETAIL: STABILIZED CONSTRUCTION ENTRANCE/EXIT**  
N.T.S.

THE STABILIZED CONSTRUCTION ENTRANCE/EXIT MAY BE USED AS A VEHICLE WASH DOWN AREA FOR DEBRIS AND SOIL REMOVAL BEFORE EXITING THE SITE ONTO THE EXISTING ROADWAY.  
LOCATION FOR INSTALLATION WILL BE DETERMINED AT EACH SITE. ALTERNATE LOCATION(S) MUST BE APPROVED BY OWNER OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE TOP DRESSED WITH ADDITIONAL STONE AS NECESSARY.  
THE CONTRACTOR SHALL EXCAVATE, REMOVE, AND LEGALLY DISPOSE ALL CONSTRUCTION ENTRANCE STONE UPON COMPLETION OF PROJECT.

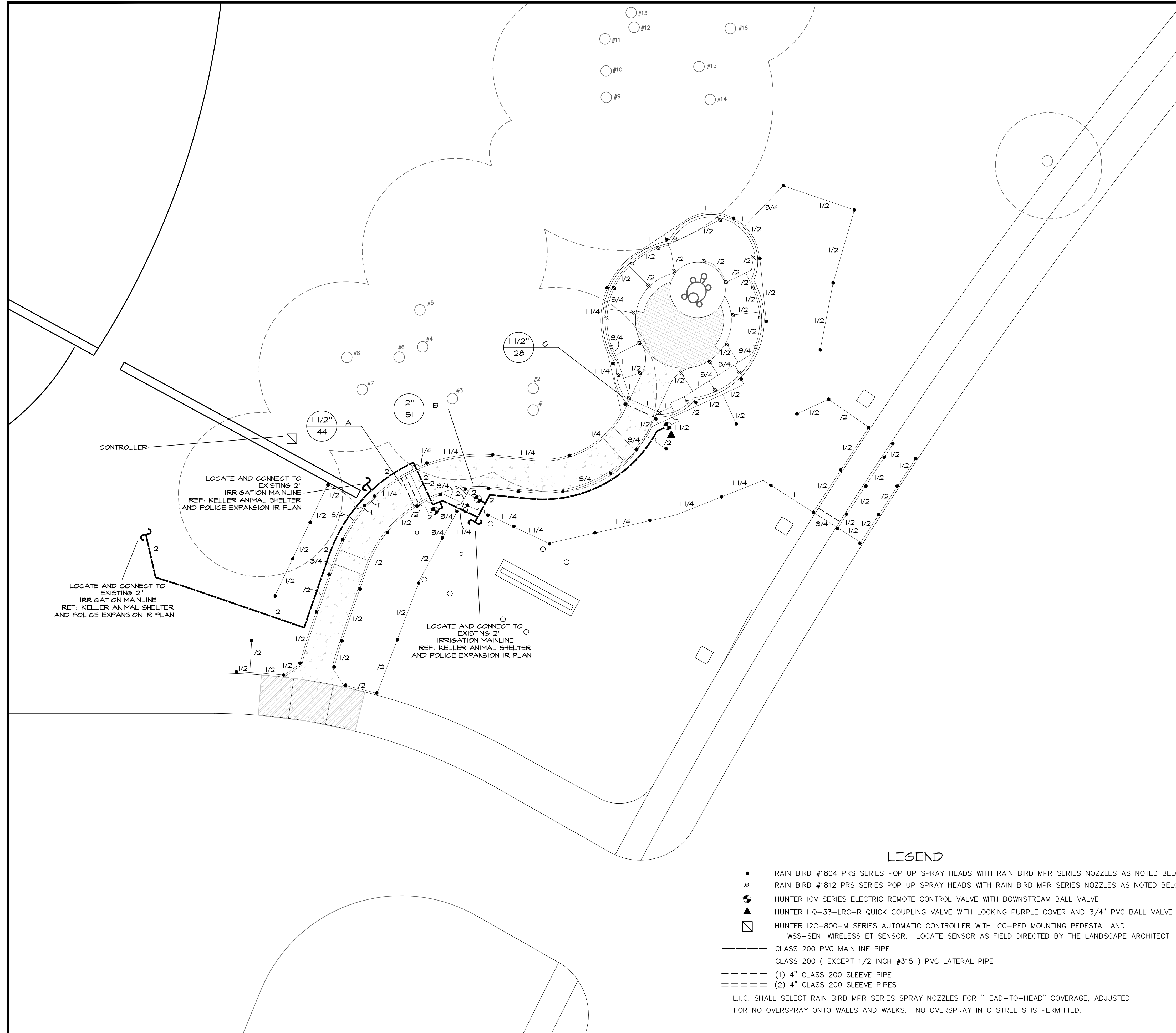
**Dunkin Sims Stoffels, Inc.**  
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REGISTERED LANDSCAPE ARCHITECT  
ROBERT P. STOFFELS  
STATE OF TEXAS  
1025  
5/29/2020  
THIS DRAWING IS RELEASED FOR PERMITTING AND/OR BIDDING UNDER THE AUTHORITY OF ROBERT P. STOFFELS, LA #1025 ON MAY 29, 2020.

**'The Playful Puppy' Sculpture Plaza**  
City of Keller, Texas

Issue Date:  
MAY 29, 2020  
Revisions:

Construction Details  
CD-3

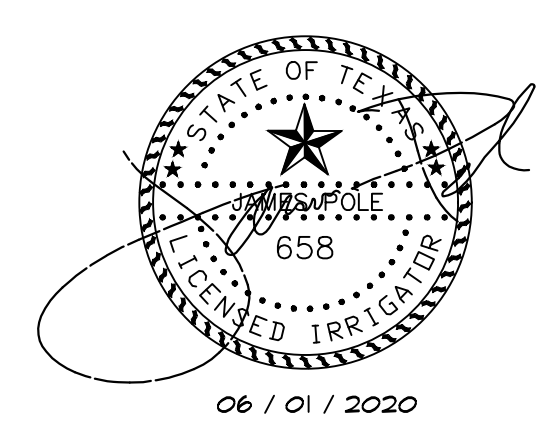


**SITE KEY MAP:**

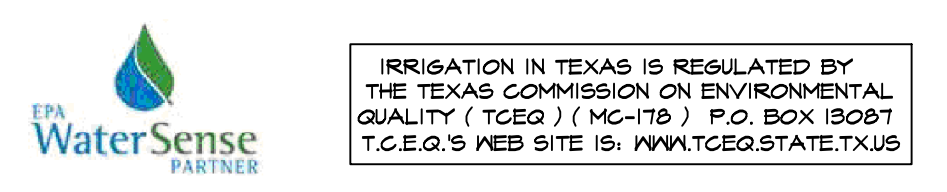


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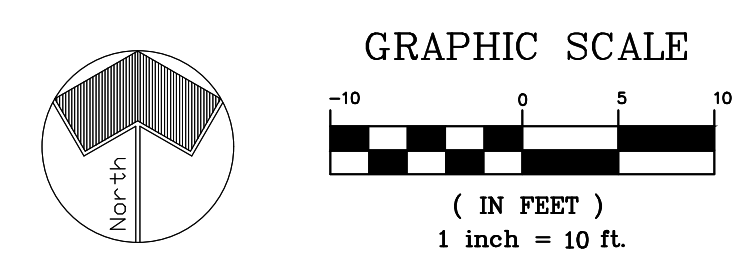
**'The Playful Puppy' Sculpture Plaza**  
City of Keller, Texas



**James Pole**  
IRRIGATION CONSULTANTS  
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james.pole@irrigation.com



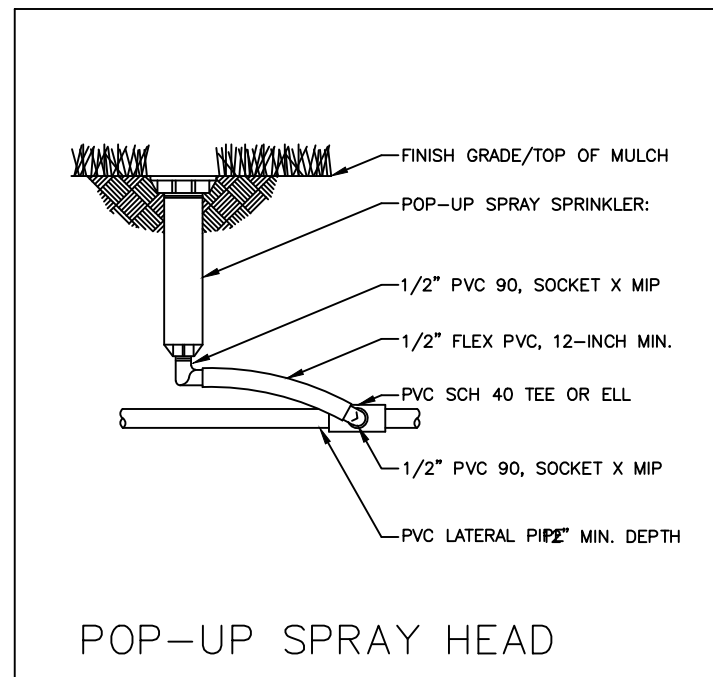
- LEGEND**
- RAIN BIRD #1804 PRS SERIES POP UP SPRAY HEADS WITH RAIN BIRD MPR SERIES NOZZLES AS NOTED BELOW
  - ⊙ RAIN BIRD #1812 PRS SERIES POP UP SPRAY HEADS WITH RAIN BIRD MPR SERIES NOZZLES AS NOTED BELOW
  - ⊕ HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH DOWNSTREAM BALL VALVE
  - ▲ HUNTER HQ-33-LRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
  - ◻ HUNTER I2C-800-M SERIES AUTOMATIC CONTROLLER WITH ICC-PED MOUNTING PEDESTAL AND 'WSS-SEN' WIRELESS ET SENSOR. LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT
  - CLASS 200 PVC MAINLINE PIPE
  - - - CLASS 200 ( EXCEPT 1/2 INCH #315 ) PVC LATERAL PIPE
  - - - (1) 4" CLASS 200 SLEEVE PIPE
  - - - (2) 4" CLASS 200 SLEEVE PIPES
- L.I.C. SHALL SELECT RAIN BIRD MPR SERIES SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.



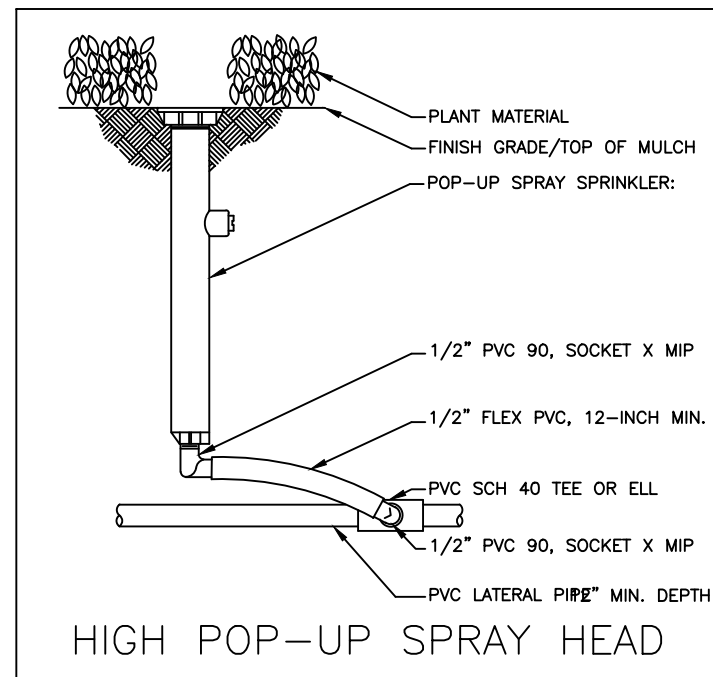
Issue Date:  
JUNE 1, 2020

Revisions:

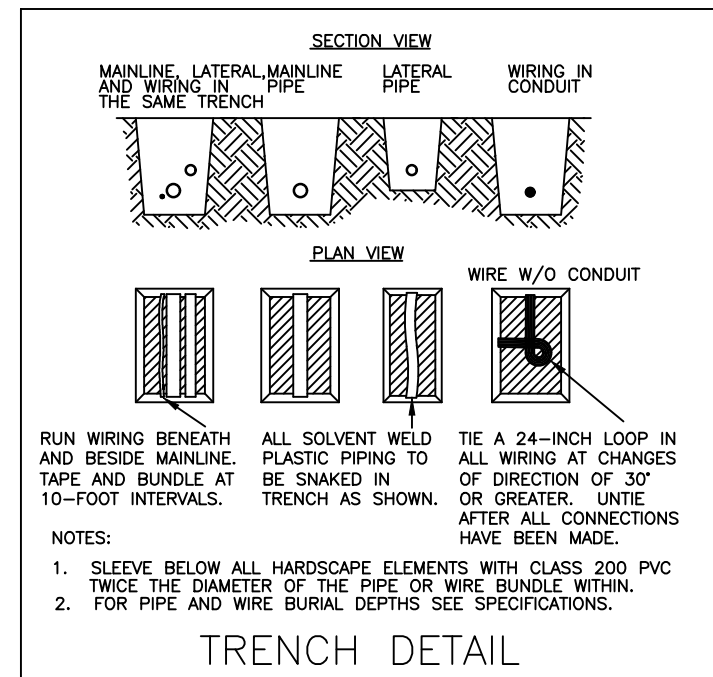
Site Irrigation Plan  
**SI-1**



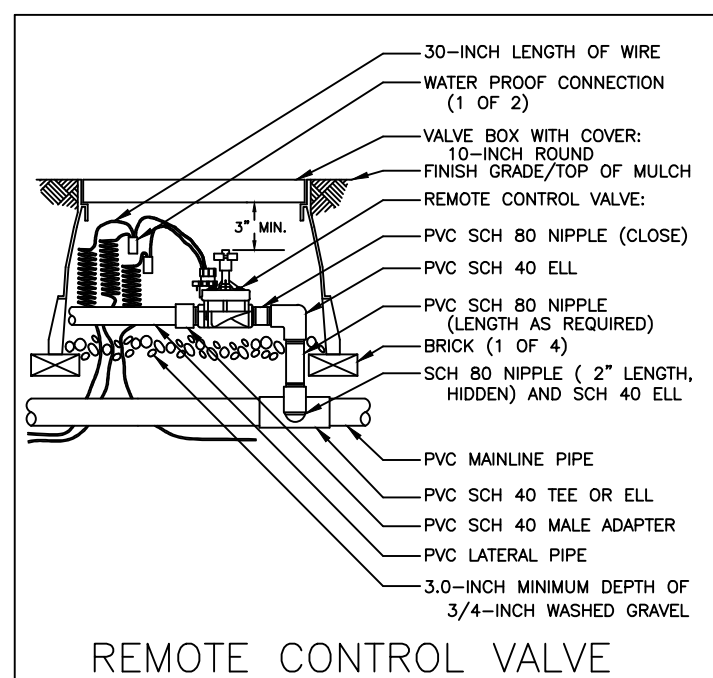
POP-UP SPRAY HEAD



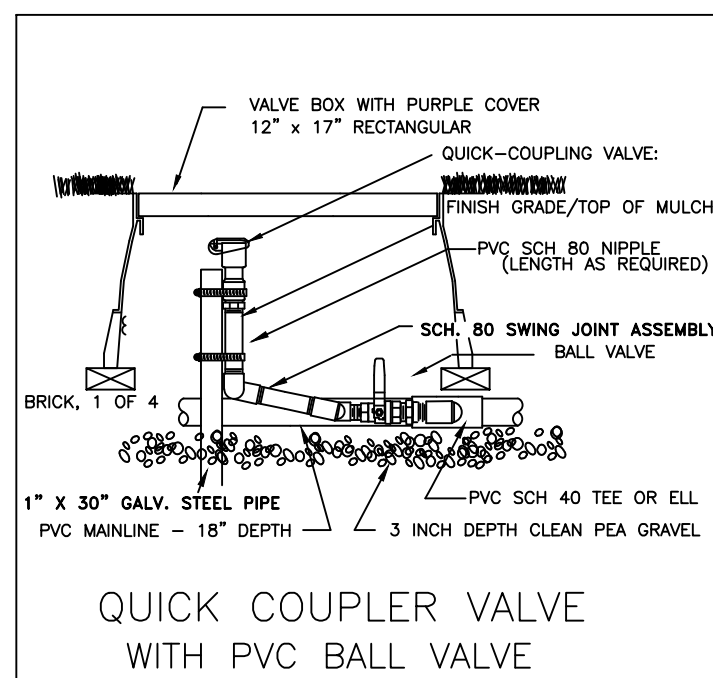
HIGH POP-UP SPRAY HEAD



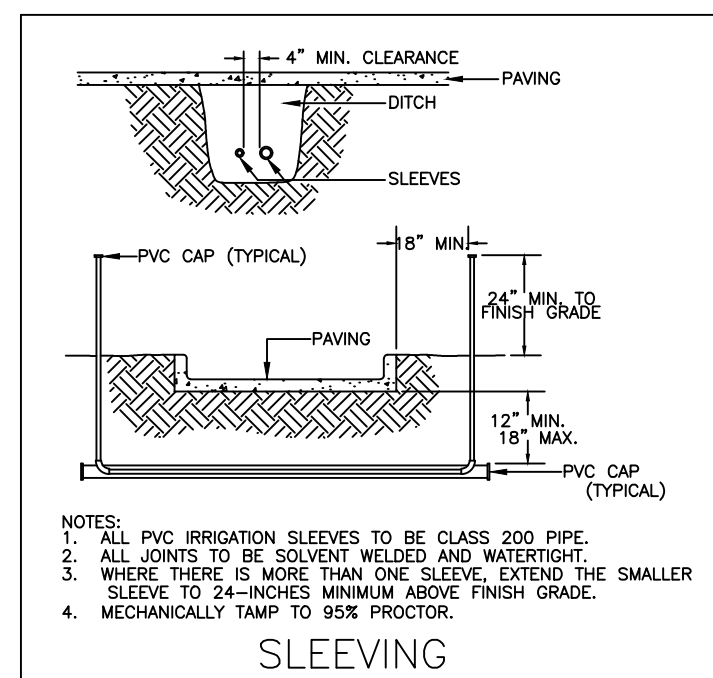
TRENCH DETAIL



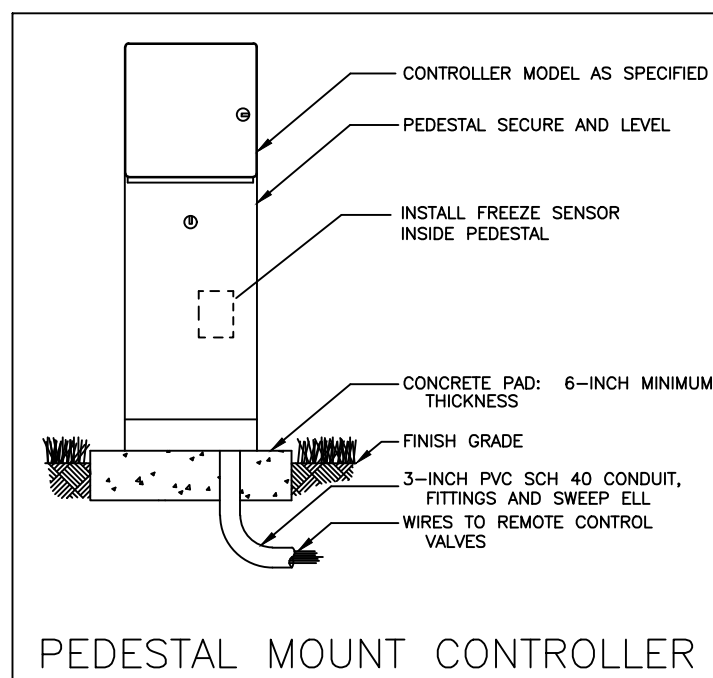
REMOTE CONTROL VALVE



QUICK COUPLER VALVE WITH PVC BALL VALVE

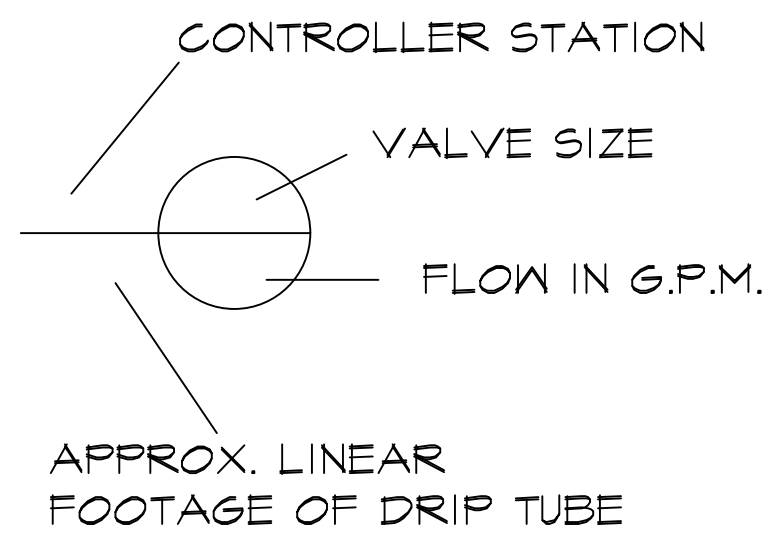


SLEEVE



PEDESTAL MOUNT CONTROLLER

MINIMUM STATIC PRESSURE : 60 PSI  
DESIGN PRESSURE : 59 PSI



LEGEND

- RAIN BIRD #1804 PRS SERIES POP UP SPRAY HEADS WITH RAIN BIRD MPR SERIES NOZZLES AS NOTED BELOW
- RAIN BIRD #1812 PRS SERIES POP UP SPRAY HEADS WITH RAIN BIRD MPR SERIES NOZZLES AS NOTED BELOW
- ⊙ HUNTER ICV SERIES ELECTRIC REMOTE CONTROL VALVE WITH DOWNSTREAM BALL VALVE
- ▲ HUNTER HQ-33-LRC-R QUICK COUPLING VALVE WITH LOCKING PURPLE COVER AND 3/4" PVC BALL VALVE
- HUNTER I2C-800-M SERIES AUTOMATIC CONTROLLER WITH ICC-PED MOUNTING PEDESTAL AND "WSS-SEN" WIRELESS ET SENSOR. LOCATE SENSOR AS FIELD DIRECTED BY THE LANDSCAPE ARCHITECT
- CLASS 200 PVC MAINLINE PIPE
- - - CLASS 200 ( EXCEPT 1/2 INCH #315 ) PVC LATERAL PIPE
- - - - (1) 4" CLASS 200 SLEEVE PIPE
- == == == (2) 4" CLASS 200 SLEEVE PIPES

L.I.C. SHALL SELECT RAIN BIRD MPR SERIES SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

INSTALLATION NOTES

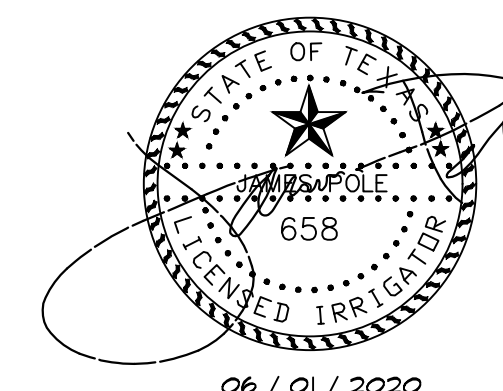
1. COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
2. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES, AND WILL SECURE ALL REQUIRED PERMITS. L.I.C. SHALL PAY ANY ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN AND SHALL BE ADDRESSED BEFORE ANY CONSTRUCTION BEGINS.
3. CONFIRM MINIMUM STATIC WATER PRESSURE OF 60 PSI AT THE HIGHEST ELEVATION OF THE SYSTEM LIMITS, AND MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE LOWEST ELEVATION OF THE SYSTEM LIMITS AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS OUTSIDE THE RANGE STATED ABOVE, DO NOT PROCEED UNTIL DIRECTED BY THE LANDSCAPE ARCHITECT.
4. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES. NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN EXISTING TREE ROOT ZONES. WHEN HAND - TRENCHING WITHIN EXISTING TREE ROOT ZONES, NO ROOTS LARGER THAN 1" DIAMETER SHALL BE CUT.
5. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY ONLY. INSTALL THESE PIPES IN ADJACENT LANDSCAPED AREAS.
6. LOCATE EXISTING IRRIGATION CONTROLLER. CONNECT NEW VALVES TO UNUSED STATIONS.
7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". WIRE SPLICES SHALL INCLUDE DBY CONNECTORS AS MANUFACTURED BY SM COMPANY. ALL FIELD SPLICES SHALL BE LOCATED IN A ROUND VALVE BOX OF SUFFICIENT SIZE TO ALLOW INSPECTION.
8. VALVE BOXES SHALL BE INSTALLED FLUSH WITH GRADE, SUPPORTED BY BRICKS IF NEEDED, WITH 3 INCHES OF CLEAN PEA GRAVEL LOCATED BELOW THE VALVE. USE 12" X 17" RECTANGULAR VALVE BOXES WITH PURPLE LID FOR QUICK COUPLING VALVES, AND 10" ROUND BOXES FOR ELECTRIC VALVES UNLESS NOTED OTHERWISE. D.C.A., WITH UPSTREAM BALL VALVE AND WYE FILTER SHALL BE BOXED AND LOCATED ACCORDING TO LOCAL CODE.
9. USE RIGID SCH. 80 PVC SWING JOINT ASSEMBLIES TO CONNECT ALL ROTARY HEADS AND QUICK COUPLERS.
10. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12" MINIMUM LENGTH OF 1/2" FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 PVC FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER.
11. PROVIDE ONE QUICK COUPLER KEY WITH SWIVEL HOSE ELL FOR EVERY SIX Q.C. VALVES. ( MINIMUM ONE SET ).
12. CONTRACTOR IS TO CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
13. COORDINATE WITH EXISTING IRRIGATION. REFERENCE KELLER ANIMAL SHELTER AND POLICE EXPANSION IRRIGATION PLAN.
14. THE PROPOSED LOCATIONS OF ALL ABOVE-GROUND EQUIPMENT INCLUDING BACKFLOW PREVENTORS, CONTROLLERS, AND WEATHER SENSORS SHALL BE STAKED BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE BEFORE THESE ITEMS ARE INSTALLED.
15. ALL HEADS SHALL BE INSTALLED A MINIMUM OF 4" FROM PAVEMENT EDGES. ( 6" OR GREATER WHERE REQUIRED BY LOCAL CODE ) FINAL HEAD ADJUSTMENTS BY THE CONTRACTOR SHALL INCLUDE THE ADDITION OF CHECK VALVES WHERE NEEDED TO PREVENT EXCESSIVE LOW HEAD DRAINAGE. THE CONTRACTOR SHALL BUDGET FOR, AND INSTALL CHECK VALVES FOR UP TO 10% OF THE TOTAL NUMBER OF HEADS WHEN NEEDED, WITH NO ADDITIONAL COST TO THE OWNER.

COORDINATION WITH EXISTING IRRIGATION

THE CONTRACTOR SHALL VISIT THE SITE BEFORE CONSTRUCTION BEGINS TO BECOME FAMILIAR WITH THE EXISTING SYSTEM LAYOUT. REROUTE, REPAIR, OR REINSTALL EXISTING EQUIPMENT, INCLUDING MAINLINE AND CONTROL WIRES AS REQUIRED TO MAINTAIN CONTINUED AUTOMATIC OPERATION OF ALL AREAS OUTSIDE THE LIMITS OF WORK. PROTECT EXISTING EQUIPMENT WITHIN THE LIMITS OF WORK, WHICH IS INTENDED TO REMAIN.

COORDINATION WITH EXISTING TREES

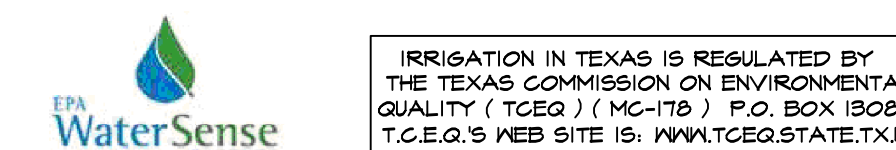
NO MACHINE TRENCHING SHALL BE PERMITTED WITHIN THE ROOT ZONE OF EXISTING TREES. HAND-DIG ONLY, WITHIN THE ROOT ZONES OF EXISTING TREES. NO ROOTS OVER 1" DIAMETER SHALL BE CUT. STAKE ALL PROPOSED TRENCH ROUTES NEAR EXISTING TREES FOR APPROVAL BY THE LANDSCAPE ARCHITECT BEFORE DIGGING BEGINS. NO TRENCHING THROUGH THE EXCLUSION ZONE BENEATH EXISTING POST OAK TREES SHALL BE PERMITTED. ALL NEW TRENCHES ADJACENT TO THE EXCLUSION ZONE SHALL BE LOCATED ALONG THE EXISTING SIDEWALK.



**James Pole**  
IRRIGATION CONSULTANTS

IRRIGATION DESIGN, CONSULTING, AND LANDSCAPE WATER MANAGEMENT

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Fax (214) 553-5781

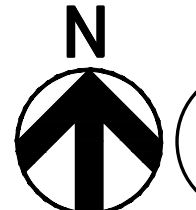
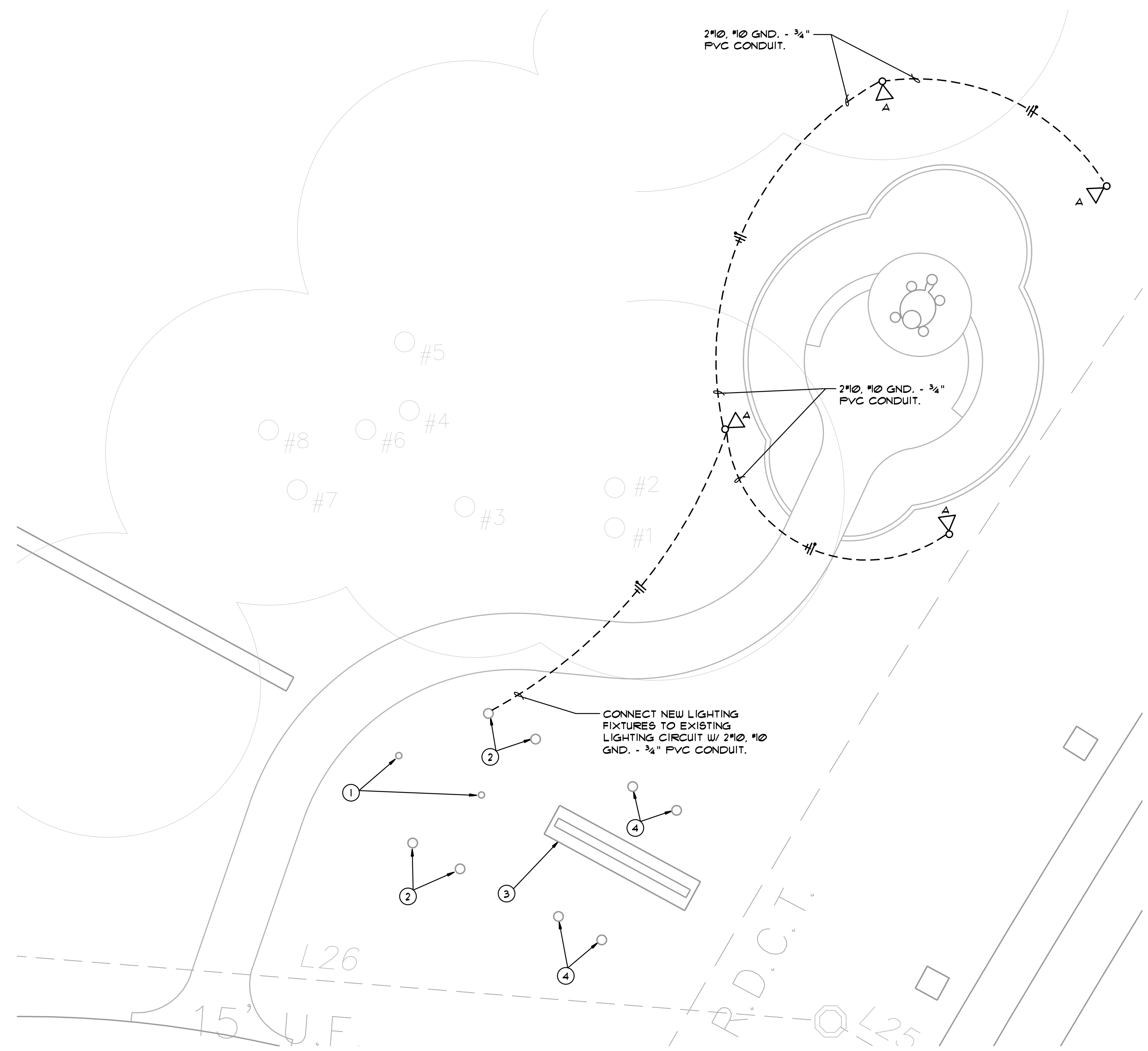
'The Playful Puppy' Sculpture Plaza  
City of Keller, Texas

Issue Date:  
JUNE 1, 2020

Revisions:

Site Irrigation  
Details

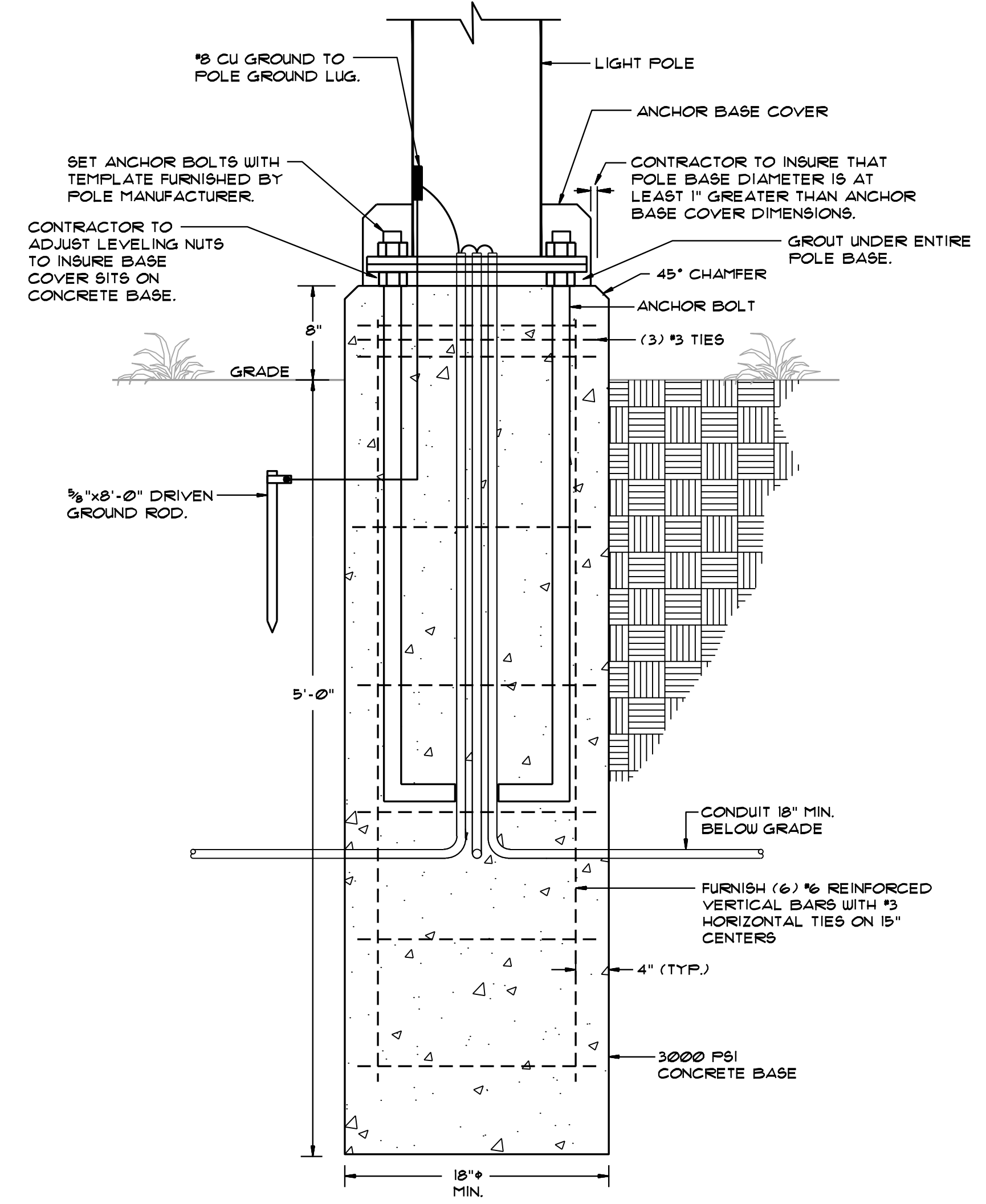
SI-2



**1 PARTIAL SITE PLAN - ELECTRICAL**  
SCALE: 1/8" = 1'-0"

**SITE PLAN NOTES BY SYMBOL 'O'**

- ① EXISTING FLAG POLES TO REMAIN.
- ② EXISTING FLAG POLE LIGHTS TO REMAIN.
- ③ EXISTING SIGN TO REMAIN.
- ④ EXISTING GROUND MOUNTED SIGN LIGHTS TO REMAIN.



**3 FIXTURE TYPE 'A' POLE BASE DETAIL**  
SCALE: NONE

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MANUFACTURER/MODEL #	VOLTAGE	WATTAGE	LAMPS	REMARKS
A	POLE MOUNTED LED FLOOD LIGHT ON ROUND NON TAPERED ALUMINUM POLE	KIM #KFLZ-24L-10-5K8-M-UNV-K-BL-6F-H6-FT POLE - VALMONT #R14005050504-PT1-DBL W/ BASE COVER	277	10	LED6 FURNISHED	REFER 3/E-2 FOR POLE BASE DETAIL

ELECTRICAL SYMBOL LEGEND			
NOTE: NOT ALL SYMBOLS APPEAR ON ALL DRAWINGS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Pole Mounted LED Area Light Fixture		Conduit In Ceiling Or Wall
	Ground Mounted LED Linear Light Fixture		Conduit In Or Under Floor / Grade
	Ground Mounted LED Flood Light Fixture		Homerun To Panelboard In Ceiling Or Wall
	Wire Run Indicating Ground Wire, Phase And Neutral Conductors		Homerun To Panelboard In Or Under Floor / Grade



May 05, 2020  
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**'The Playful Puppy' Sculpture Plaza**  
 City of Keller, Texas

Issue Date:  
 May 2020

Revisions:  
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## DIVISION 16

### ELECTRICAL SPECIFICATIONS:

#### A. GENERAL:

1. PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, ETC. FOR COMPLETE OPERATING ELECTRICAL SYSTEMS FOR LIGHTING, POWER AND CONTROL AS DESCRIBED HEREIN AND ILLUSTRATED ON THE DRAWINGS.
2. EXISTING EQUIPMENT, OUTLETS, AND/OR LIGHTING FIXTURES WHICH ARE TO BE REMOVED SHALL BE DISCONNECTED FROM THEIR SOURCE OF SUPPLY.
3. EXISTING LIGHTING BRANCH CIRCUITS MAY BE EXTENDED AND REUSED TO SERVE NEW LIGHTING CIRCUITS.

#### B. SCOPE OF WORK:

1. WORK INCLUDED: PROVIDE COMPLETE ELECTRICAL WORK WHERE SHOWN ON DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING SUMMARY OF WORK:
  - a. DEMOLITION OF EXISTING GROUND MOUNTED LIGHTING FIXTURES.
  - b. NEW GROUND MOUNTED LIGHTING FIXTURES.
  - c. UNDERGROUND TELEPHONE SERVICE ENTRANCE.
  - d. POLE MOUNTED FLOOD LIGHTING FIXTURES.
  - e. LIGHTING CONTROLS.
  - f. WIRING DEVICES AND BRANCH CIRCUIT WIRING.
  - g. OTHER ITEMS AND SERVICES REQUIRED TO COMPLETE THE SYSTEMS.

#### C. CODE COMPLIANCE:

1. ELECTRICAL WORK TO CONFORM WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND APPLICABLE LOCAL ORDINANCES.

#### D. RACEWAYS:

1. RACEWAYS SHALL BE SIZED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE N.E.C. TO PREVENT DAMAGE TO THE CONDUCTORS. DO NOT USE RACEWAYS SIZED LESS THAN 3/4" UNLESS SPECIFIED OTHERWISE.
2. PROVIDE GALVANIZED RIGID METAL RACEWAY FOR ALL USES IN DAMP AND WET LOCATIONS, IN HAZARDOUS AREAS AND IN LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
3. ALL CONDUIT ENTERING BOXES SHALL BE SECURED WITH INSULATING THROAT CONNECTORS AND LOCKNUTS.
4. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT CONNECTION FOR FINAL CONNECTION TO EACH MOTOR, NOT TO EXCEED 36" INCHES IN LENGTH.
5. ALL EXPOSED RACEWAYS SHALL BE INSTALLED WITH RUNS PARALLEL AND/OR PERPENDICULAR WITH STRUCTURAL MEMBERS AND WALLS.
6. PROVIDE FIRE SEALING MATERIALS FOR ALL RACEWAYS PASSING THROUGH FIRE RATED PARTITIONS, WALLS AND FLOORS.

#### E. WIRE AND CABLES:

1. ELECTRICAL CONDUCTORS SHALL BE OF SOFT DRAWN COPPER WITH CONDUCTIVITY 98% OF PURE COPPER, EQUAL TO GENERAL CABLE COMPANY.
2. ELECTRICAL CONDUCTORS SHALL BE SOLID FOR #10 AND SMALLER, STRANDED FOR #8 AND LARGER.
3. WIRE AND CABLE FOR ALL BRANCH CIRCUITS, FEEDERS, SUB-FEEDERS, MOTOR CIRCUITS AND HIGH AMBIENT LOCATIONS SHALL BE TYPE THW/THHN.
4. ALL LIGHTING AND POWER CIRCUITS SHALL BE #12 OR LARGER.
5. FOR 120V CIRCUITS: HOME RUNS OVER 100' LONG, USE #10 CONDUCTORS.
6. FOR 120V CIRCUITS: HOME RUNS OVER 200' LONG, USE #8 CONDUCTORS.
7. CONSISTENTLY COLOR CODE WIRING CONTINUOUS THROUGHOUT THE WORK:
  - a. MATCH EXISTING.
8. BRANCH CIRCUIT WIRING MAY BE COMBINED INTO A SINGLE RACEWAY IN ACCORDANCE WITH NOTE 8 TO TABLES 310-16 THROUGH 310-31 OF THE N.E.C., UNLESS OTHERWISE NOTED.
9. FEEDER WIRING SHALL NOT BE COMBINED INTO A SINGLE RACEWAY.

#### F. SPLICES AND TAPS:

1. STRANDED CONDUCTORS, #8 OR LARGER, SHALL BE SPLICED AND TAPPED WITH CAST COPPER SOLDERLESS PRESSURE CONNECTORS WITH MOLDED PHENOLIC INSULATING COVERS, O.Z. TYPE XTP OR FM, OR INSULATED WITH RUBBER END FRICTION TAPE.
2. SOLID CONDUCTORS, #10 AND SMALLER, SHALL BE SPLICED WITH INSULATED SPRING CONNECTORS, IDEAL OR 3M COMPANY.

#### G. GROUNDING:

1. GROUND ALL ELECTRICAL APPARATUS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
2. PROVIDE TWO-HOLE, PAD TYPE COMPRESSION CONNECTORS, T4B COLOR-KEYED TYPE OR BURNDY.
3. ENSURE CONTINUOUS BOND WHERE FLEXIBLE CONDUIT IS USED.

#### H. OUTLET BOXES:

1. GENERAL ELECTRIC, APPLETON, STEEL CITY OR RACO HOT DIPPED GALVANIZED STEEL BOXES, OR EQUAL, UNLESS SPECIFIED OTHERWISE.
2. PROVIDE SIZE, TYPE, DESIGN, TO SUIT STRUCTURAL CONDITIONS.
3. ADEQUATE TO ACCOMMODATE SIZE AND NUMBER OF RACEWAYS, CONDUCTORS, AND DEVICE OR FIXTURE SERVED BY IT.
4. PROVIDE PLASTER RINGS AND/OR COVERS ON BOXES WHERE REQUIRED.
5. ON EXPOSED WORK, PROVIDE APPROVED CAST FERROUS ALLOY OUTLET, JUNCTION BOXES AND FITTINGS.
6. FIXTURE OR DEVICE COVER SHALL COMPLETELY CONCEAL THE TYPE OUTLET BOX USED.
7. RECEPTACLES SHALL BE MOUNTED 18 INCHES ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.

#### I. FULL AND JUNCTION BOXES:

1. SHEET METAL BOXES: ANSINEMA OS 1: GALVANIZED STEEL.
2. SHEET METAL BOXES LARGER THAN 12 INCHES IN ANY DIMENSION SHALL HAVE A HINGED ENCLOSURE.
3. CONCRETE BOXES FOR UNDERGROUND INSTALLATIONS: TYPE 4, OUTSIDE FLANGED, RECESSED COVER BOX FOR FLUSH MOUNTING, PLAIN COVER WITH NEOPRENE GASKET AND STAINLESS STEEL COVER SCREWS.
4. LOCATE FULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS OR IN UNFINISHED AREAS.
5. SUPPORT FULL AND JUNCTION BOXES INDEPENDENT OF CONDUIT.
6. SET UNDERGROUND FULL AND JUNCTION BOXES LEVEL AND FLUSH WITH FINISHED GRADE.
7. PROVIDE COVERPLATES FOR ALL JUNCTION BOXES.
8. INDICATE ON COVERPLATES, WITH PERMANENT MARKER, CIRCUITS CONTAINED WITHIN JUNCTION BOXES.

#### J. LIGHTING FIXTURES:

1. ALL LIGHTING FIXTURES SHOWN ON THE DRAWINGS ARE FURNISHED AND INSTALLED BY THIS CONTRACTOR. INCLUDE ALL COSTS NECESSARY FOR THE INSTALLATION INCLUDING MOUNTING, SUPPORTS AND FOUNDATIONS.
2. FURNISH ALL ACCESSORIES REQUIRED FOR EACH AND EVERY FIXTURE. PROVIDE APPROPRIATE HANGER, BARS, ETC. OF NON-FERROUS OR CADMIUM PLATED STEEL MATERIALS, TO SUPPORT FIXTURES.
3. REFERENCE NEW LIGHTING FIXTURE SCHEDULE.

#### K. SUBMITTALS:

1. PRODUCT DATA: SUBMIT THE FOLLOWING:
  - a. MATERIALS LIST OF ITEMS PROPOSED TO BE PROVIDED UNDER DIVISION 16.
  - b. MANUFACTURER'S SPECIFICATIONS AND OTHER DATA NEEDED TO PROVE COMPLIANCE WITH THE SPECIFIED ITEMS.
2. SUBMITTALS REQUIRED OF MATERIALS AND EQUIPMENT UNDER THIS SECTION INCLUDE THE FOLLOWING:
  - a. LIGHTING FIXTURES.
  - b. CONDUCTORS.
  - c. CONDUIT AND FITTINGS.
  - d. CONTACTORS, RELAYS TIMECLOCKS, AND CONTROLS.

#### L. SUBSTITUTIONS:

1. SUBMITTALS FOR "EQUAL" ITEMS SHALL, WHERE APPLICABLE, INCLUDE THE FOLLOWING DATA WHICH ARE NOT NECESSARILY REQUIRED FOR SPECIFIED ITEMS:
  - a. PERFORMANCE CHARACTERISTICS
  - b. MATERIALS
  - c. FINISH
  - d. CERTIFICATION OF CONFORMANCE WITH SPECIFIED CODES AND STANDARDS.
2. SUBMITTALS OF "EQUAL" COMPONENTS OR SYSTEMS MAY BE REJECTED IF:
  - a. THE MATERIALS OR EQUIPMENT WOULD NECESSITATE THE ALTERATION OF ANY PORTION OF THE MECHANICAL, ELECTRICAL, ARCHITECTURAL OR STRUCTURAL DESIGN.
  - b. DIMENSIONS VARY FROM THE SPECIFIED MATERIAL OR EQUIPMENT IN SUCH A MANNER THAT THE ACCESSIBILITY OR CLEARANCES ARE IMPAIRED OR THE WORK OF OTHER TRADES IS ADVERSELY AFFECTED.
3. PROPOSED SUBSTITUTIONS FOR MATERIALS OR EQUIPMENT MUST BE SUBMITTED TEN (10) DAYS PRIOR TO FINAL BID DATE FOR CONSIDERATION AS APPROVED EQUALS. OTHERWISE, SUCH SUBSTITUTIONS WILL NOT BE PERMITTED. PROPOSALS FOR SUBSTITUTIONS SHALL BE MADE ONLY BY THE BIDDERS, MANUFACTURERS, DISTRIBUTORS AND SUBCONTRACTORS SHALL NOT MAKE PROPOSALS TO THE OWNER FOR SUBSTITUTIONS.
4. NO SUBSTITUTIONS SHALL BE MADE UNLESS AUTHORIZED IN WRITING BY THE OWNER. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED, AND WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL REPLACE THIS MATERIAL OR EQUIPMENT WITH MATERIAL OR EQUIPMENT SPECIFIED, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE OWNER.

#### M. GUARANTEE:

1. GUARANTEE ENTIRE INSTALLATION TO BE IN GOOD REPAIR AND PROPER WORKING ORDER FOR A PERIOD OF ONE-YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.

#### N. CLOSE OUT DOCUMENTS

1. PROVIDE OWNER WITH AS-BUILT DRAWINGS, MANUFACTURER'S WARRANTIES AT FINAL ACCEPTANCE OF INSTALLATION.

END OF SPECIFICATION



May 05, 2020



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Electrical  
Specifications

E-2