BASELINE REQUIREMENTS

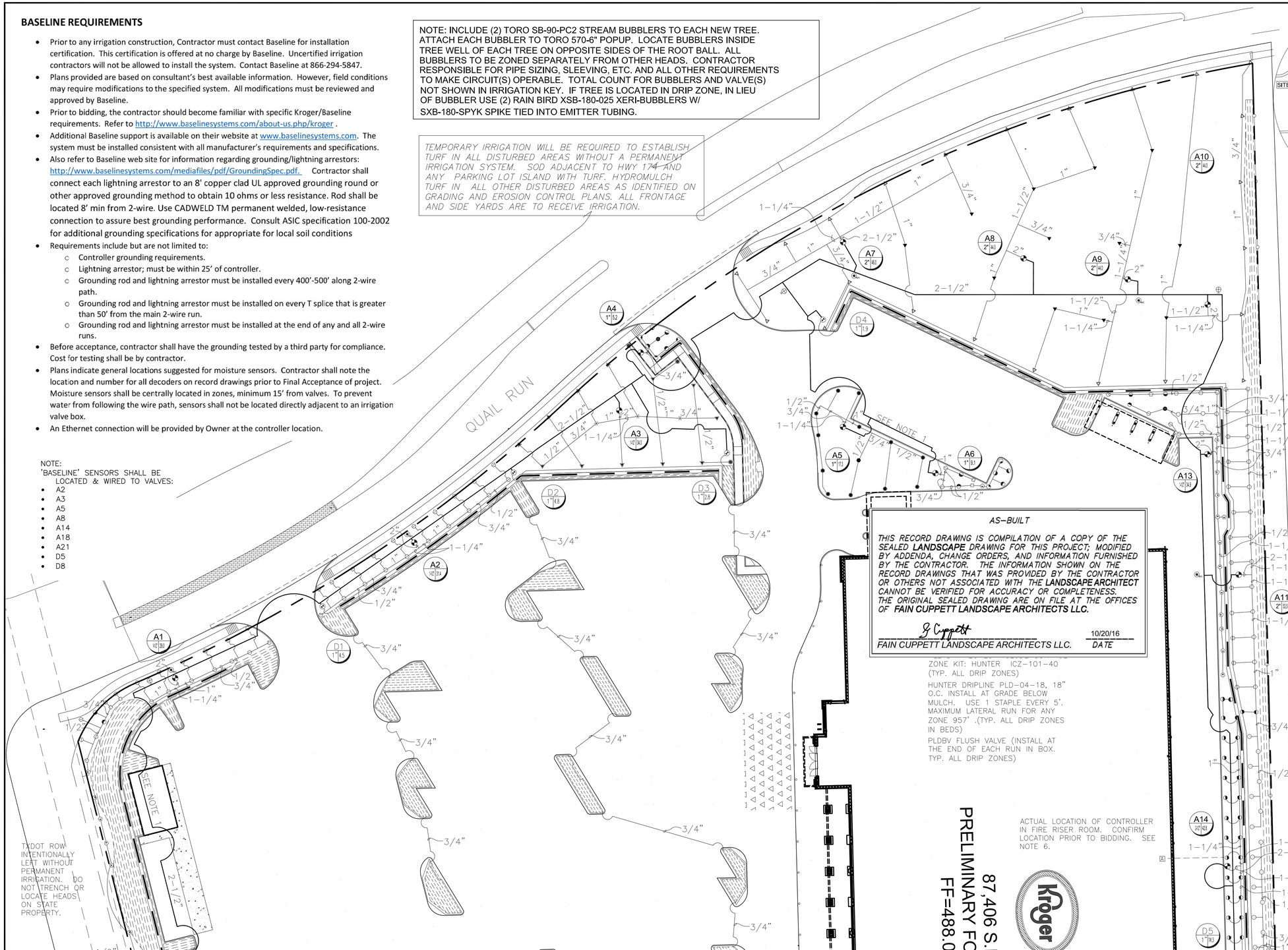
- Prior to any irrigation construction, Contractor must contact Baseline for installation certification. This certification is offered at no charge by Baseline. Uncertified irrigation contractors will not be allowed to install the system. Contact Baseline at 866-294-5847.
- Plans provided are based on consultant's best available information. However, field conditions may require modifications to the specified system. All modifications must be reviewed and approved by Baseline.
- Prior to bidding, the contractor should become familiar with specific Kroger/Baseline requirements. Refer to http://www.baselinesystems.com/about-us.php/kroger .
- Additional Baseline support is available on their website at www.baselinesystems.com. The system must be installed consistent with all manufacturer's requirements and specifications.
- Also refer to Baseline web site for information regarding grounding/lightning arrestors: http://www.baselinesystems.com/mediafiles/pdf/GroundingSpec.pdf. Contractor shall connect each lightning arrestor to an 8' copper clad UL approved grounding round or other approved grounding method to obtain 10 ohms or less resistance. Rod shall be located 8' min from 2-wire. Use CADWELD TM permanent welded, low-resistance connection to assure best grounding performance. Consult ASIC specification 100-2002 for additional grounding specifications for appropriate for local soil conditions
- Requirements include but are not limited to:
  - Controller grounding requirements.
  - Lightning arrestor; must be within 25' of controller.
  - Grounding rod and lightning arrestor must be installed every 400'-500' along 2-wire path.
  - Grounding rod and lightning arrestor must be installed on every T splice that is greater than 50' from the main 2-wire run.
  - Grounding rod and lightning arrestor must be installed at the end of any and all 2-wire runs.
- Before acceptance, contractor shall have the grounding tested by a third party for compliance. Cost for testing shall be by contractor.
- Plans indicate general locations suggested for moisture sensors. Contractor shall note the location and number for all decoders on record drawings prior to Final Acceptance of project. Moisture sensors shall be centrally located in zones, minimum 15' from valves. To prevent water from following the wire path, sensors shall not be located directly adjacent to an irrigation valve box.
- An Ethernet connection will be provided by Owner at the controller location.

NOTE:
'BASELINE' SENSORS SHALL BE LOCATED & WIRED TO VALVES:

- A2
- A3
- A5
- A8
- A14
- A18
- A21
- D5
- D8

NOTE: INCLUDE (2) TORO SB-90-PC2 STREAM BUBBLERS TO EACH NEW TREE. ATTACH EACH BUBBLER TO TORO 570-6" POPUP. LOCATE BUBBLERS INSIDE TREE WELL OF EACH TREE ON OPPOSITE SIDES OF THE ROOT BALL. ALL BUBBLERS TO BE ZONED SEPARATELY FROM OTHER HEADS. CONTRACTOR RESPONSIBLE FOR PIPE SIZING, SLEEVING, ETC. AND ALL OTHER REQUIREMENTS TO MAKE CIRCUIT(S) OPERABLE. TOTAL COUNT FOR BUBBLERS AND VALVE(S) NOT SHOWN IN IRRIGATION KEY. IF TREE IS LOCATED IN DRIP ZONE, IN LIEU OF BUBBLER USE (2) RAIN BIRD XSB-180-025 XERI-BUBBLERS W/ SXB-180-SPYK SPIKE TIED INTO EMITTER TUBING.

TEMPORARY IRRIGATION WILL BE REQUIRED TO ESTABLISH TURF IN ALL DISTURBED AREAS WITHOUT A PERMANENT IRRIGATION SYSTEM. SOD ADJACENT TO HWY 174 AND ANY PARKING LOT ISLAND WITH TURF. HYDROMULCH TURF IN ALL OTHER DISTURBED AREAS AS IDENTIFIED ON GRADING AND EROSION CONTROL PLANS. ALL FRONTAGE AND SIDE YARDS ARE TO RECEIVE IRRIGATION.



AS-BUILT

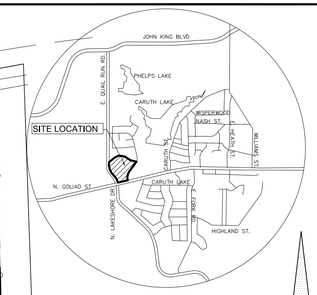
*THIS RECORD DRAWING IS COMPILATION OF A COPY OF THE SEALED **LANDSCAPE** DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE **LANDSCAPE ARCHITECT** CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWING ARE ON FILE AT THE OFFICES OF **FAIN CUPPETT LANDSCAPE ARCHITECTS LLC.***

J. Cuppett — 10/20/16
FAIN CUPPETT LANDSCAPE ARCHITECTS LLC. — DATE

ZONE KIT: HUNTER ICZ-101-40 (TYP. ALL DRIP ZONES)

HUNTER DRIPLINE PLD-04-18, 18" O.C. INSTALL AT GRADE BELOW MULCH. USE 1 STAPLE EVERY 5'. MAXIMUM LATERAL RUN FOR ANY ZONE 957' .(TYP. ALL DRIP ZONES IN BEDS)

PLDBV FLUSH VALVE (INSTALL AT THE END OF EACH RUN IN BOX. TYP. ALL DRIP ZONES)



VICINITY MAP

N

0' 15' 30' 60'
Scale 1"=30'

HYDRAULIC CALCULATIONS ROTOR ZONE A12

AVAILABLE PRESSURE 80 PSI (ESTIMATED)
55.2 GALLONS PER MINUTE

- 2" METER - 2.3 PSI
- 2" DCVA - 4.6 PSI
- 2" WYE - 0.4 PSI
- 2-1/2" MAIN LINE LOSS (3010') - 2.9 PSI
- ELECTRIC CONTROL VALVE - 1.3 PSI
- IN-LINE BALL VALVE - 0.5 PSI
- ZONE LOSS - 4.5 PSI
- ELEVATION CHANGE - 14.7 PSI
- FITTING ESTIMATE - 3.1 PSI

OPERATING PRESSURE - 45.7 PSI

HYDRAULIC CALCULATIONS DRIP ZONE D9

AVAILABLE PRESSURE 80 PSI (ESTIMATED)
13.6 GALLONS PER MINUTE

- 2" METER - 0.7 PSI
- 2" DCVA - 5.4 PSI
- 2" WYE - 0.1 PSI
- 2-1/2" MAIN LINE LOSS (3010') - 0.3 PSI
- IN-LINE BALL VALVE - 0.5 PSI
- ELEVATION CHANGE - 14.7 PSI
- FITTING ESTIMATE - 2.2 PSI

OPERATING PRESSURE AT VALVE - 56.1 PSI

CAUTION!!!
UNDERGROUND UTILITIES ARE LOCATED IN THIS AREA. 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTACT LINE LOCATES FOR FRANCHISE UTILITY INFO.
CALL BEFORE YOU DIG:
TEXAS EXCAVATION SAFETY SYSTEM (TESS)
1-800-344-8377
TEXAS ONE CALL SYSTEMS
1-800-245-4545
LONE STAR NOTIFICATION CENTER
1-800-669-8344 EXT. 5

BEFORE YOU DIG...

STATE OF TEXAS — JOHN R. FAIN — 5135 — LICENSED IRRIGATOR — 11/30/15

FAIN • CUPPETT LANDSCAPE ARCHITECTS, LLC
8233 Mid Cities Blvd. Suite B
North Richland Hills, TX 76182-4761 817-479-0730
PARKS AND OPEN SPACE PLANNING • LANDSCAPE ARCHITECTURE • IRRIGATION DESIGN

MATCH LINE, SHEET L-5

REF SHEET L-6 FOR IRRIGATION LEGEND. PIPE SIZES ARE LABELED AT TRANSITIONS ONLY

THIS ELECTRONIC DRAWING FILE IS RELEASED UNDER THE AUTHORITY OF JOHN R. FAIN LICENSED IRRIGATOR & LANDSCAPE ARCHITECT (LICENSED IRRIGATOR NUMBER 5135, LANDSCAPE ARCHITECT REGISTRATION NUMBER 805) ON 11/30/15 WHO MAINTAINS THE ORIGINAL FILE. THIS ELECTRONIC DRAWING FILE MAY BE USED AS A BACKGROUND DRAWING. PURSUANT TO RULE 3.103(F) OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS AND THE RULES AND REGULATIONS OF THE TEXAS DEPARTMENT OF LICENSING AND REGULATION. THE USER OF THIS ELECTRONIC DRAWING FILE AGREES TO ASSUME ALL RESPONSIBILITY FOR ANY MODIFICATION TO OR USE OF THIS DRAWING FILE THAT IS INCONSISTENT WITH THE REQUIREMENTS OF THE RULES AND REGULATIONS OF THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS AND THE TEXAS DEPARTMENT OF LICENSING AND REGULATION. NO PERSON MAY MAKE MODIFICATIONS TO THIS ELECTRONIC DRAWING FILE WITHOUT THE IRRIGATOR/LANDSCAPE ARCHITECT'S EXPRESS WRITTEN PERMISSION.

No.	DATE	REVISION	APPROV.
1.	12/18/2015	ISSUE FOR CONSTRUCTION	MB
2.			
3.			
4.			
5.			
6.			

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IRRIGATION PLAN
SEC N. GOLIAD ST. AND E. QUAIL RUN RD.
ROCKWALL, TEXAS

L-4