

**LEGAL DESCRIPTION**  
 BEING LOT 2, BLOCK 4, C.B. 4707, FAIR OAKS VILLAGE, BEXAR COUNTY, TEXAS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 9574, PAGE 136 OF THE DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

**BENCHMARKS**  
 BM # 301  
 SET MAG NAIL IN CURB AT ELEVATION: 1424.68' SET BY KFW SURVEYING.  
 BM # 302  
 SET MAG NAIL IN CURB AT ELEVATION: 1421.57' SET BY KFW SURVEYING.  
 BM # 303  
 SET MAG NAIL IN PAVEMENT AT ELEVATION: 1428.27' SET BY KFW SURVEYING.

- COORDINATION NOTE:**
- CONTACT SPECTRUM TO COORDINATE CABLE TV SERVICE. (844)-584-2058.
  - CONFIRM REQUIREMENTS AND COORDINATE WITH CPS (CITY PUBLIC SERVICE) FOR INSPECTIONS AND CONDUIT SIZES FOR PRIMARY AND SECONDARY ELECTRICAL SERVICES. (210)-353-2256.
  - CONTACT AT&T TO COORDINATE TELEPHONE SERVICE. 1-800-449-7928.
  - CONTRACTOR TO COORDINATE WITH CPS (CITY PUBLIC SERVICE) TO PLAN GAS SERVICES. (210)-353-2256.
  - CONTRACTOR TO COORDINATE WITH SAWS (SAN ANTONIO WATER SYSTEM) TO PLAN WATER AND SANITARY SEWER SERVICES. (210)-233-2009.
  - CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.

**LEGEND**

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING CONCRETE
- EXISTING CURB
- EXISTING FIRE HYDRANT
- SITE BENCHMARK  
SEE DESCRIPTION THIS SHEET
- EXISTING SIGN
- EXISTING GAS MARKER
- EXISTING IRR VALVES
- EXISTING WATER METER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM MANHOLE
- EXISTING GAS VALVES
- EXISTING OVERHEAD UTILITY AND POWER POLE
- EXISTING UNDERGROUND UTILITY
- EXISTING GUY WIRE
- EXISTING TREES
- PROPOSED CURB
- PROPOSED RIBBON CURB
- PROPOSED SAW TOOTH CURB
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE
- TREE PROTECTION FENCE

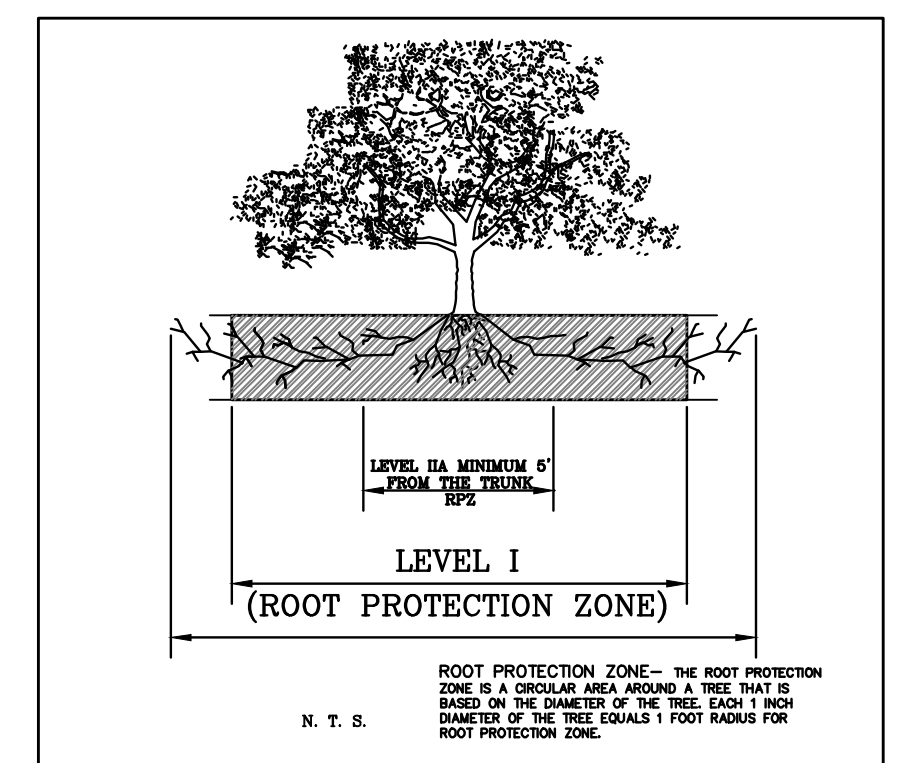
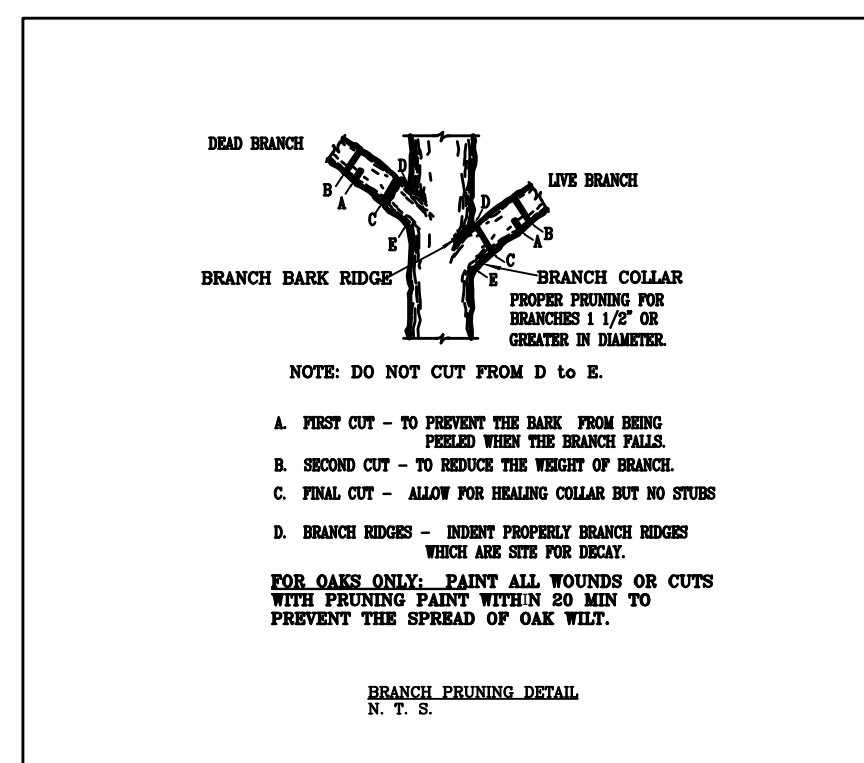
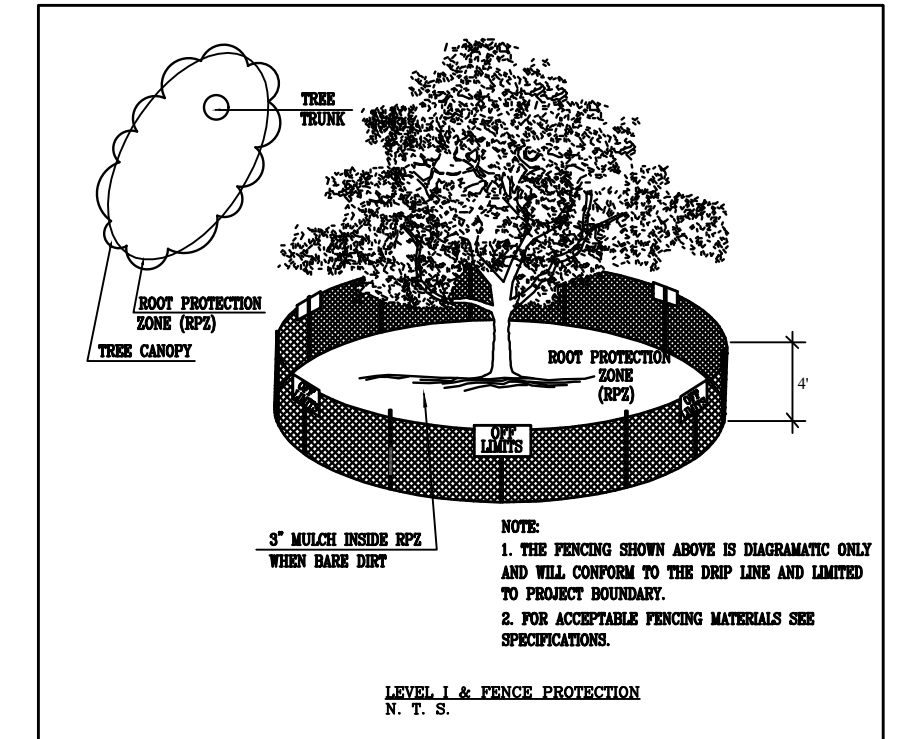
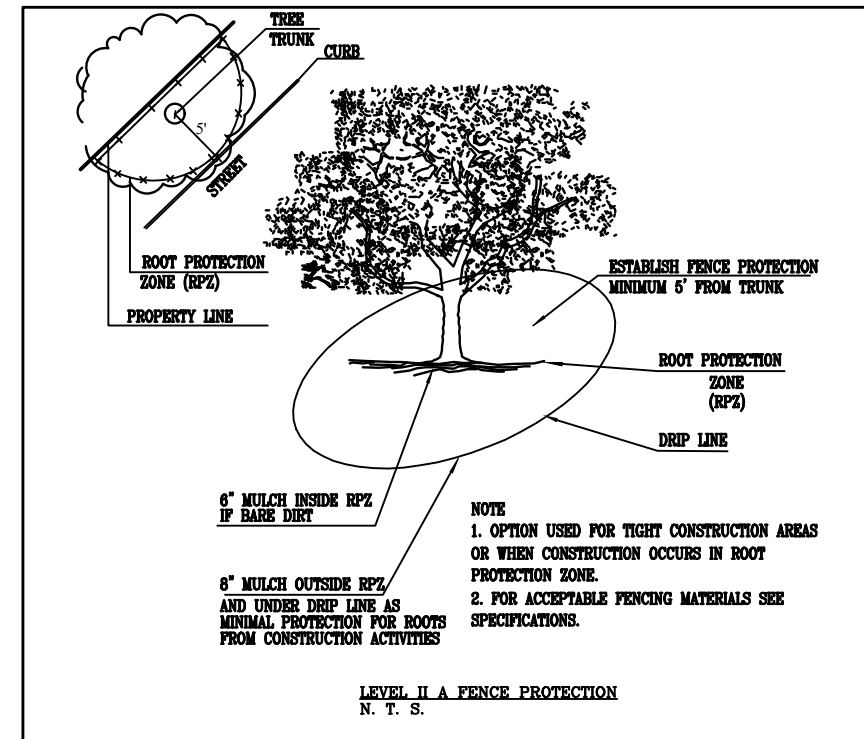
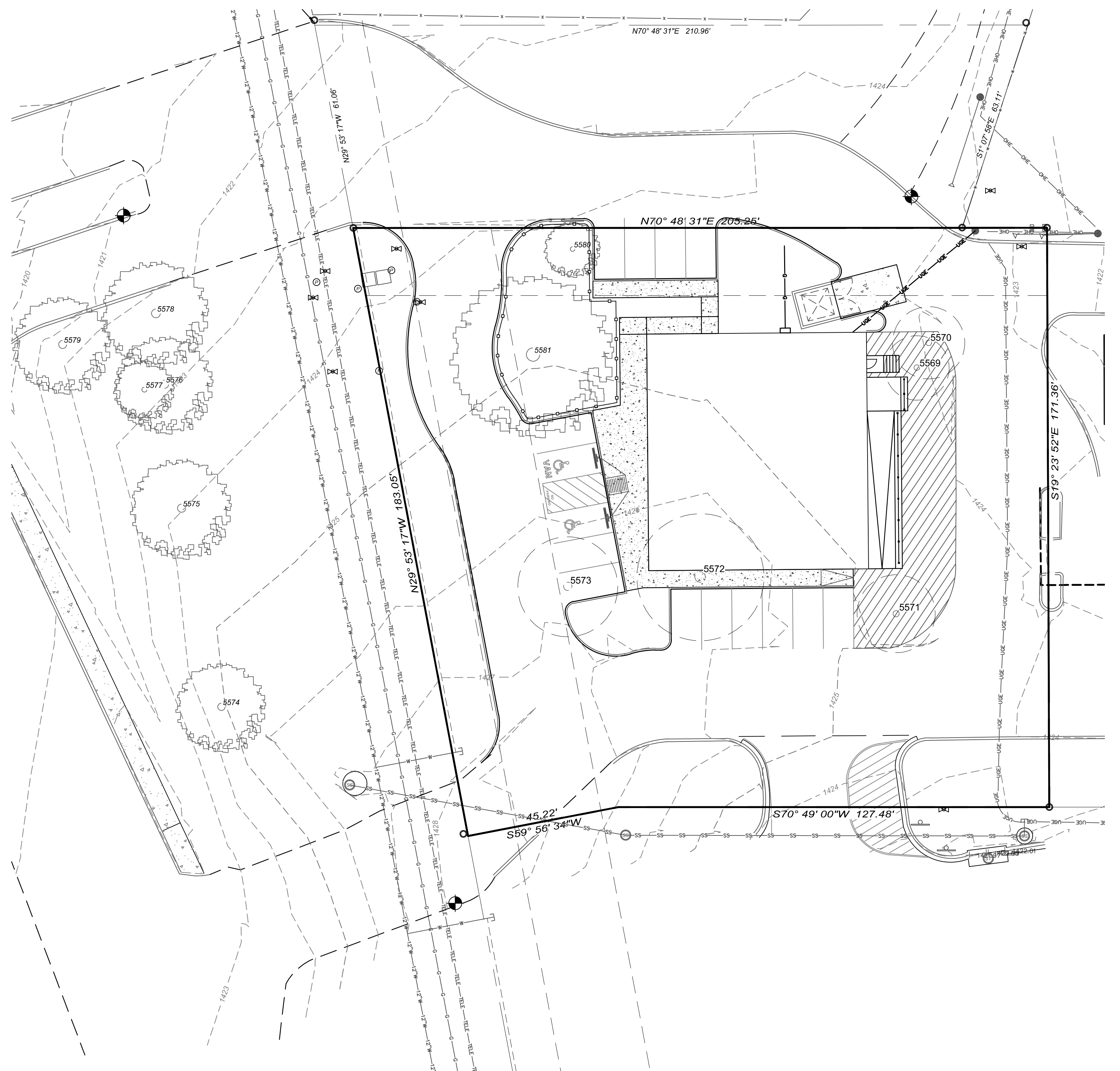
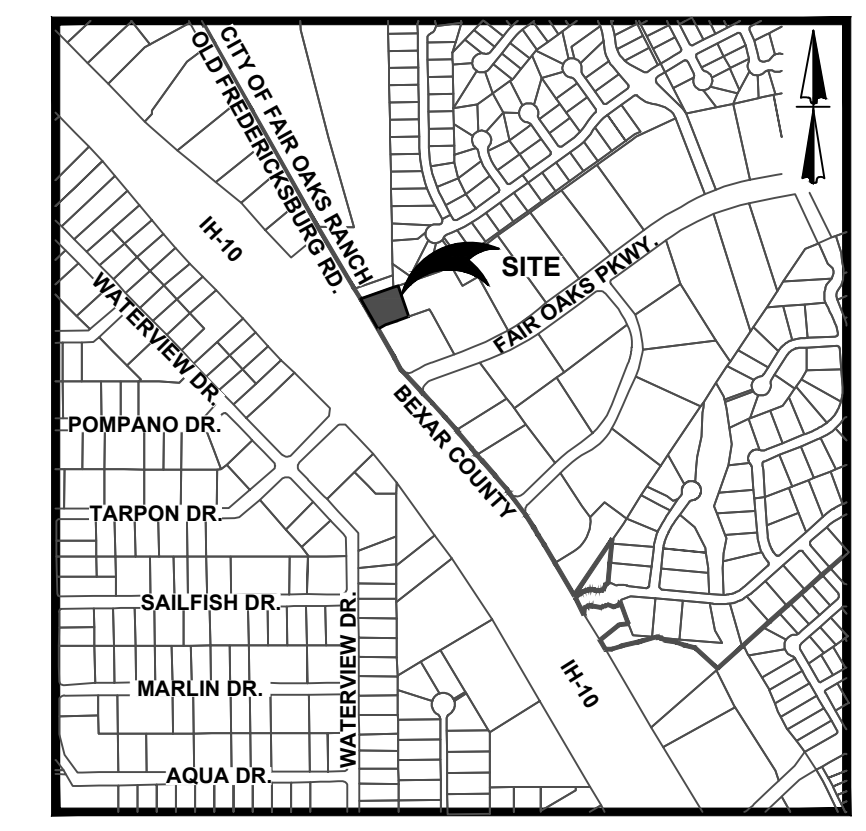
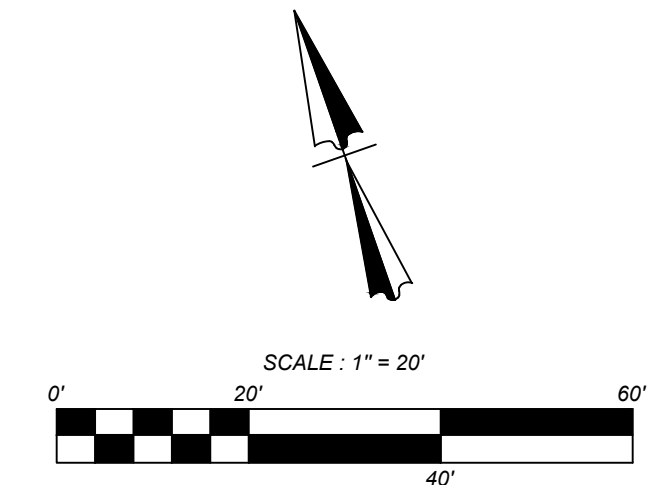
- TREE PRESERVATION NOTES**
- A ROOT PROTECTION ZONE WILL BE ESTABLISHED AROUND EACH TREE OR ANY VEGETATION TO BE PRESERVED TO MEET THE LANDSCAPE OR TREE PRESERVATION ORDINANCES. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY THE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH DIAMETER INCH AT BRESTH HEIGHT (4.5') OF THE TREE. A 10-INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
  - NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED, AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING WILL BE A MINIMUM 4' HEIGHT.
  - ALL ROOTS LARGER THAN ONE-INCH IN DIAMETER ARE TO BE CUT CLEANLY AND OAK WOUNDS PAINTED WITHIN 30 MINUTES.
  - EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
  - 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.
  - NO GRADE CHANGE MORE THAN 3" IS ALLOWED WITHIN 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.
  - TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED.
  - TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE ROOT PROTECTION ZONE AN/OR WASHING FOLIAGE.
  - NO WIRES, NAILS OR OTHER MATERIALS MAY BE ATTACHED TO PROTECTED TREES.

TREE NUMBER	SPECIES	CALIPER	TC	PRESERVED	REMOVED	NOTES
5569	LIVE OAK	9.1	28.2		28.2	
5570	LIVE OAK	10.3	31.8		31.8	
5571	LIVE OAK	11.0	34.1		34.1	
5572	LIVE OAK	18.5	57.4		57.4	Building footprint
5573	LIVE OAK	18.4	56.9		56.9	Multi-trunk
5580	LIVE OAK	12.7	39.4	39.4		Multi-trunk
5581	LIVE OAK	23.7	73.5	73.5		

112.8    208.3

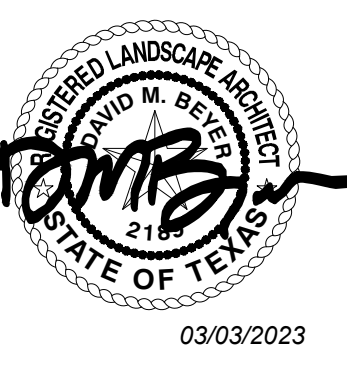
**MITIGATION**  
 Tree TC to be Removed    208.3  
 Tree Caliper Equivalent    67.2  
 (3) 3" Cal. Tree Proposed    -9  
 Tree Caliper Needed    58.2  
 Number 3" trees    20

*Due to the lack of space within the limits of this project, additional mitigation to be provided by planting new trees offsite*



**KFW**  
**ENGINEERS + SURVEYING**  
 Phone #: (210) 979-5444 • Fax #: (210) 979-5441  
 TBPES Firm #: 0513 • TBPES Firm #: 0123200

NO.	REVISION / ISSUE	DATE



SHERWIN WILLIAMS  
 IH-10 AND FAIR OAKS PKWY., FAIR OAKS RANCH, TX  
 TREE PRESERVATION PLAN

JOB NO.: 1008-06-01  
 DATE: FEBRUARY 2023  
 DRAWN: JB CHECKED: DB  
 SHEET NUMBER:

**L1.0**



**LEGAL DESCRIPTION**

BEING LOT 2, BLOCK 4, C.B. 4107, FAIR OAKS VILLAGE, BEXAR COUNTY, TEXAS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 9574, PAGE 136 OF THE DEED AND PLAT RECORDS OF BEXAR COUNTY, TEXAS.

**BENCHMARKS**

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**COORDINATION NOTE:**

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**LEGEND**

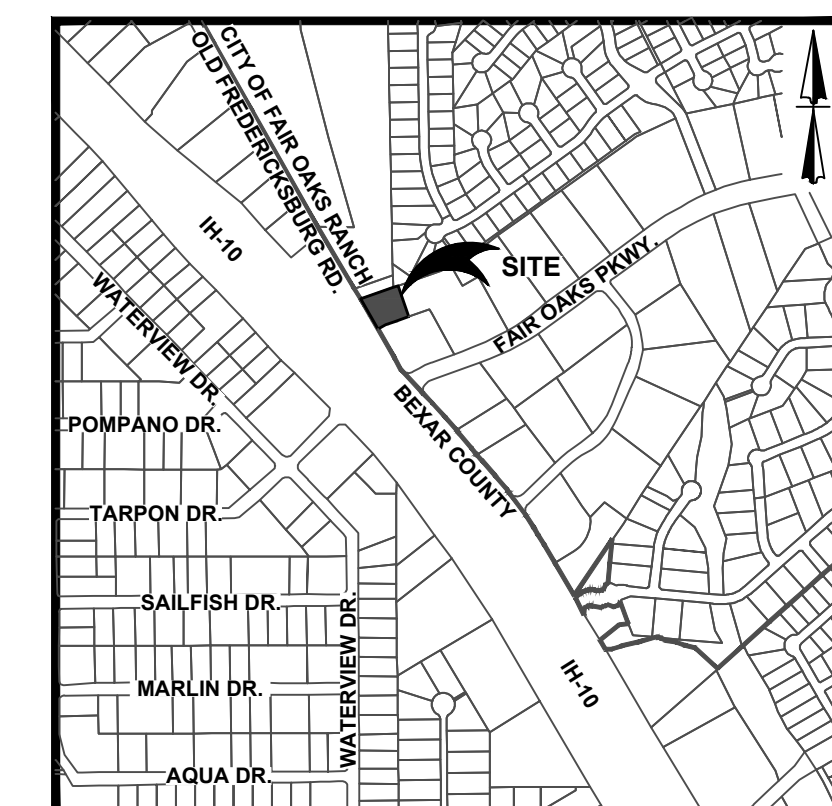
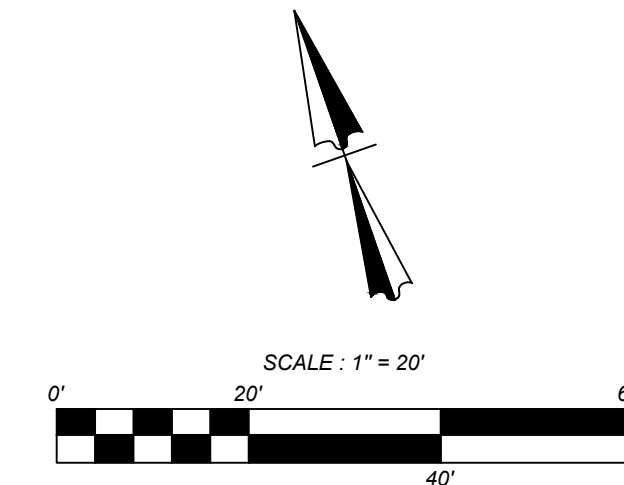
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EXISTING CONCRETE	▬▬▬▬▬▬
EXISTING CURB	▬▬▬▬▬▬
EXISTING FIRE HYDRANT	⊗
SITE BENCHMARK SEE DESCRIPTION THIS SHEET	⊙
EXISTING SIGN	⊕
EXISTING GAS MARKER	⊙
EXISTING IRR VALVES	DK
EXISTING WATER METER	⊕
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING STORM MANHOLE	⊕
EXISTING GAS VALVES	DK
EXISTING OVERHEAD UTILITY AND POWER POLE	—O—O—O—O—O—O—
EXISTING UNDERGROUND UTILITY	—U—U—U—U—U—U—
EXISTING GUY WIRE	—T—T—T—T—T—T—
EXISTING TREES	⊙
PROPOSED CURB	▬▬▬▬▬▬
PROPOSED RIBBON CURB	▬▬▬▬▬▬
PROPOSED SAW TOOTH CURB	▬▬▬▬▬▬
PROPOSED RETAINING WALL	▬▬▬▬▬▬
PROPOSED CONCRETE	▬▬▬▬▬▬

**PLANT SCHEDULE**

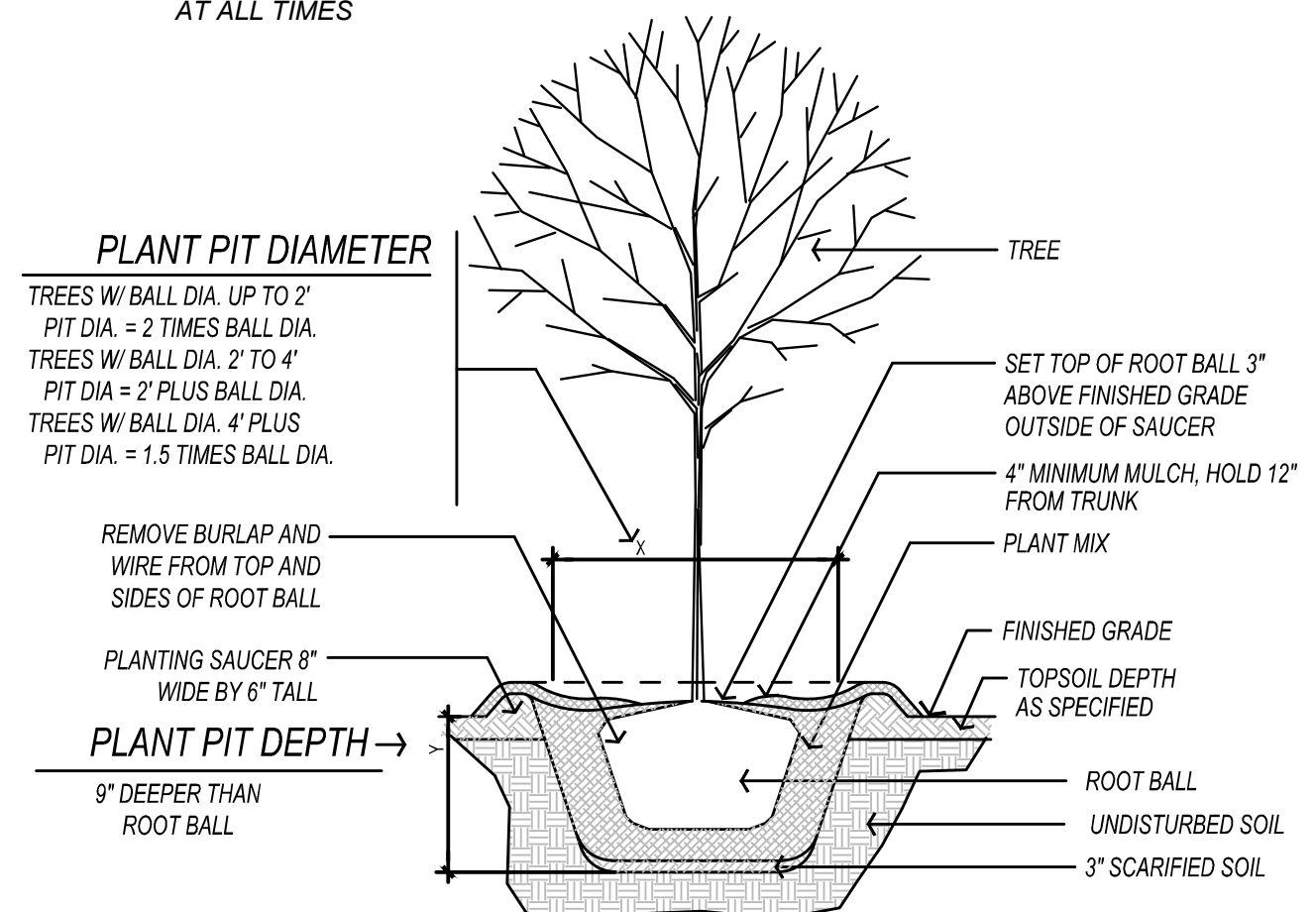
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
Qm	1	Quercus polymorpha 'Monterey'	Monterey Oak	B & B	3" Cal.
Qv	3	Quercus virginiana	Southern Live Oak	B & B	3" Cal.
Uc	1	Ulmus crassifolia	Cedar Elm	B & B	3" Cal.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
Bc	9	Bignonia capreolata	Cross Vine	1 gal	
Db	20	Dietes bicolor	Fortnight Lily	5 gal	
Lp	6	Lantana montevdensis	Purple Trailing Lantana	5 gal	
Lh	21	Lantana x 'New Gold'	New Gold Lantana	5 gal	
Mg	21	Muhlenbergia capillaris 'Gulf Coast'	Gulf Coast Pink Muhly Grass	5 gal	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
Cc	4,386 sf	Cynodon dactylon 'Celebration'	Celebration Bermudagrass	flat	

**LANDSCAPE REQUIREMENTS:**

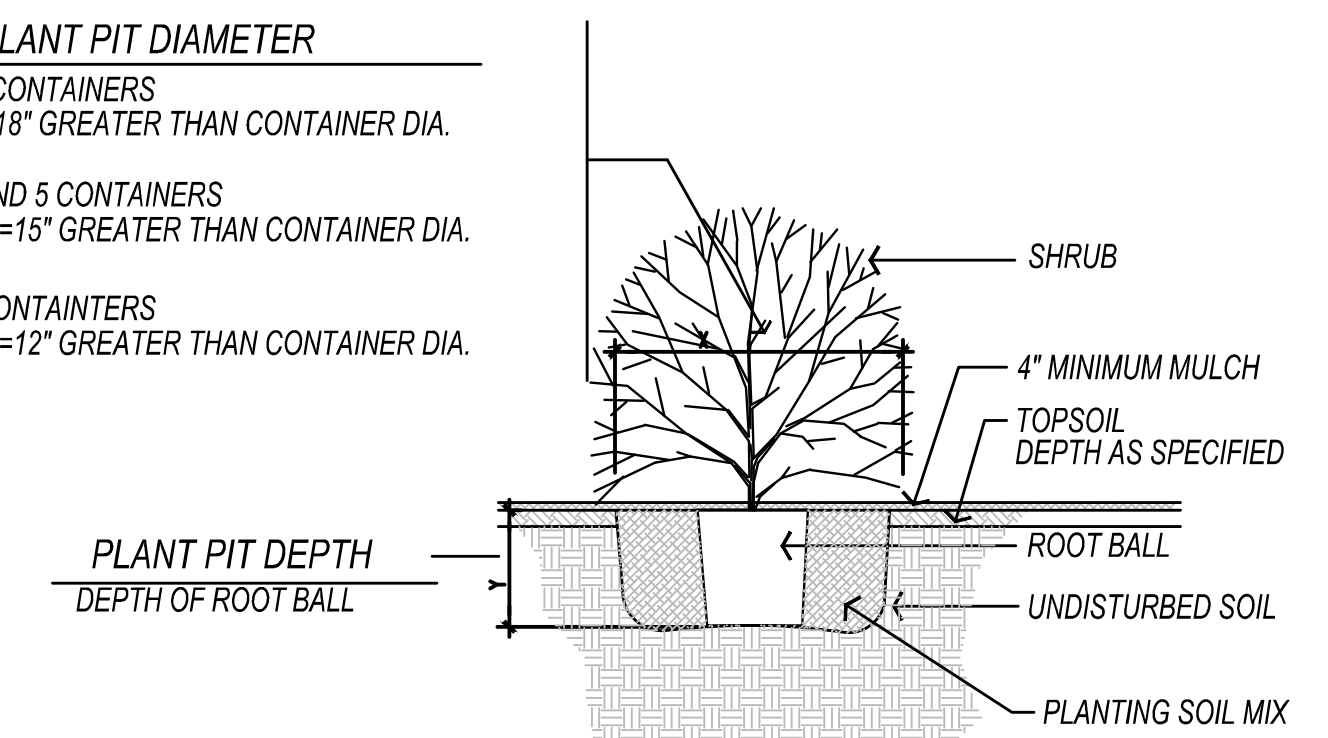
- 15% OF SITE TO BE LANDSCAPED  
32,645 TOTAL SF X 15% = 4,896 SF REQ.  
**7,225 SF PROVIDED**
- PARKING LOTS  
FRONT: 10% LANDSCAPE AREA, ONE TREE PER 12 SPACES  
968 PARKING LOT SF X 10% = 97 SF REQ.  
**485 SF PROVIDED & 1 TREE FOR 5 SPACES**  
SIDE: 3% LANDSCAPE AREA, ON TREE PER 30 SPACES  
1606 PARKING LOT SF X 3% = 48 SF REQ.  
**441 SF PROVIDED & 1 TREE FOR 10 SPACES**



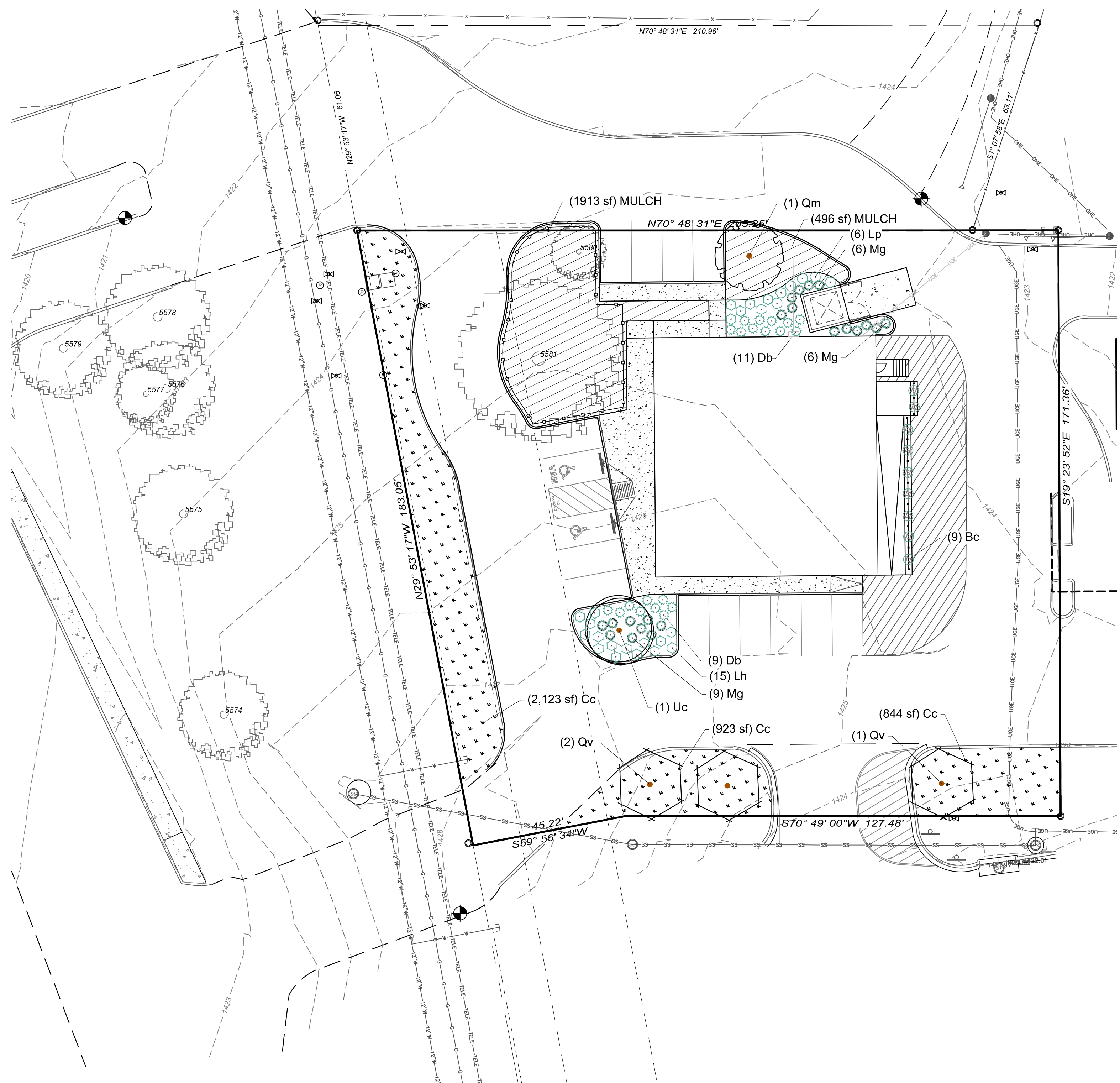
- ALL QUANTITIES SHOWN ON PLANS TO BE VERIFIED BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL LABELED PLANT MATERIAL ON PLANS (NOT TABULATION).
- LANDSCAPE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LANDSCAPE PLAN AND EXISTING SITE CONDITIONS.
- LANDSCAPE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UNDERGROUND UTILITIES AND EASEMENTS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT EXISTING UTILITIES AT ALL TIMES. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED CONDUITS OR UTILITIES AT CONTRACTOR'S EXPENSE.
- LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY QUESTIONS REGARDING APPLICATION OF PROPOSED PLANT MATERIAL PRIOR TO INSTALLATION - ESPECIALLY QUESTIONS THAT MAY AFFECT OR ALTER THE WARRANTY OF SAID MATERIAL.
- ALL DISTURBED AREAS SHALL BE RE-VEGETATED
- PLANT MATERIAL MUST MEET THE SPECIFICATIONS AS SHOWN IN THE PLANT LIST. IF PLANT MATERIAL IS NOT AVAILABLE IN THE SIZE OR QUANTITY SHOWN, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT.
- ALL TREES AND PLANTING AREAS TO BE MULCHED TO A DEPTH OF 4 INCHES WITH DOUBLE-SHREDDED HARDWOOD BARK MULCH RESULTING FROM REQUIRED SITE CLEARING. MAINTAIN A 1 FT CLEAR AREA FROM THE BASE OF THE TREE FREE OF MULCH TO ALLOW OXYGEN EXCHANGE. IF SUFFICIENT QUANTITY OF HARVESTED MULCH IS NOT AVAILABLE TO MEET THE REQUIREMENTS OF THE PROJECT, USE SHREDDED TEXAS NATIVE MULCH BY NEW EARTH OR EQUIVALENT. SUBMIT SAMPLE.
- VERIFY EXISTENCE OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR SITE WORK AND PLANTING.
- CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT EXISTING UTILITIES AT ALL TIMES



**1 SECTION: TREE PLANTING**  
N.T.S.



**2 SHRUB/GROUNDCOVER PLANTING**  
N.T.S.



**KFW**  
ENGINEERS + SURVEYING  
Phone #: (210) 979-5444 • Fax #: (210) 979-5441  
TBE Firm #: 9513 • TBEPLS Firm #: 1012300

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LANDSCAPE ARCHITECT  
**WILLIAMS**  
SHERWIN WILLIAMS  
STATE OF TEXAS  
03/03/2023

SHERWIN WILLIAMS  
IH-10 AND FAIR OAKS PKWY., FAIR OAKS RANCH, TX  
LANDSCAPE PLAN

JOB NO.: 1008-06-01  
DATE: FEBRUARY 2023  
DRAWN: JB CHECKED: DB  
SHEET NUMBER:

**L1.0**

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**BENCHMARKS**

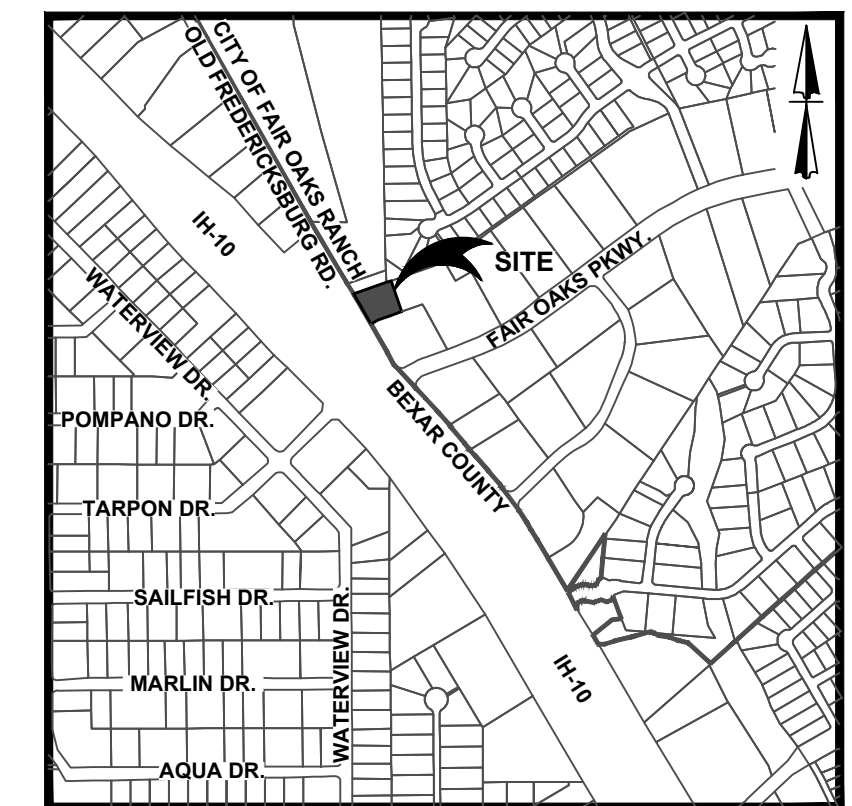
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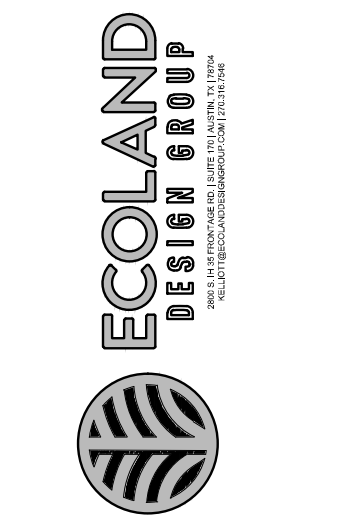
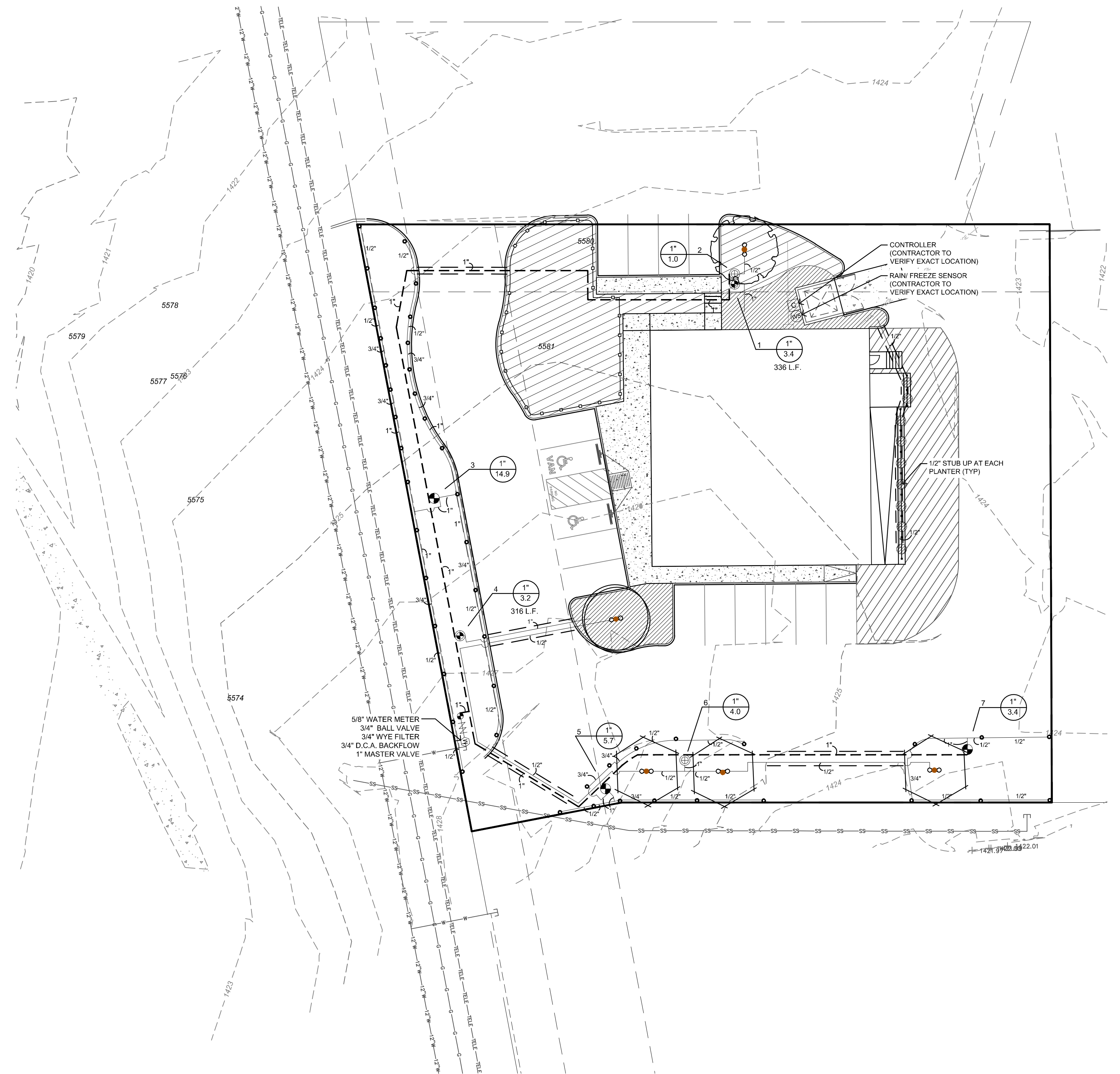
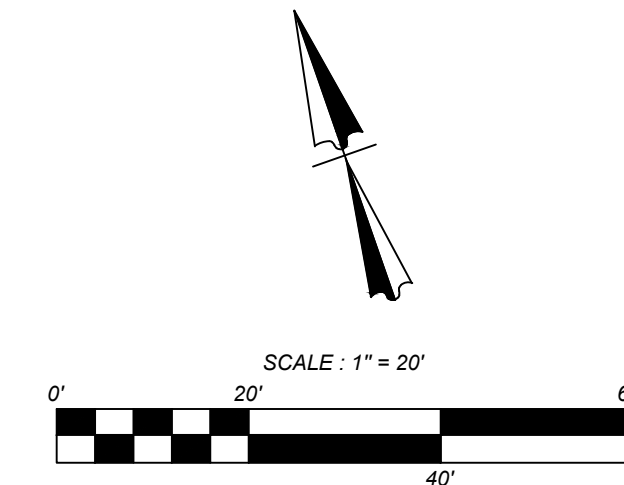
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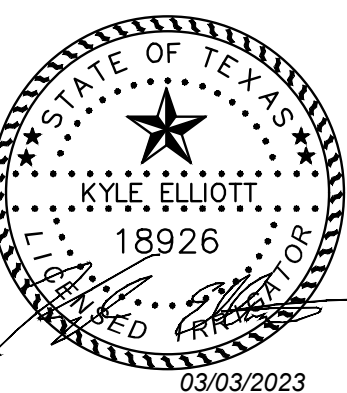
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**LOCATION MAP  
NOT TO SCALE**



NO.	REVISION / ISSUE	DATE



**SHERWIN WILLIAMS**  
**IH-10 AND FAIR OAKS PKWY., FAIR OAKS RANCH, TX**  
**IRRIGATION PLAN**

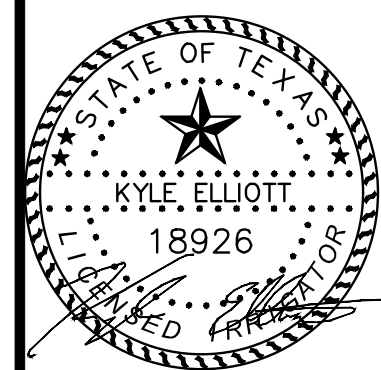
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SHEET NUMBER:  
**L1.2**

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**SHERWIN WILLIAMS**  
**IH-10 AND FAIR OAKS PKWY., FAIR OAKS RANCH, TX**  
**IRRIGATION DETAILS**

JOB NO.: 1008-06-01  
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**SHEET NUMBER:**  
**L1.3**

**IRRIGATION CONSTRUCTION NOTES**

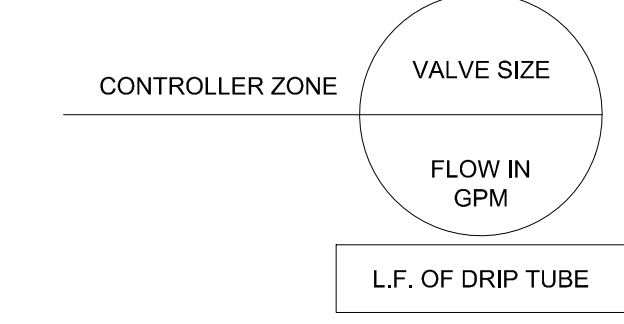
- IRRIGATION INSTALL TO BE COORDINATED WITH LANDSCAPE PLAN AND FIELD CONDITIONS TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS. CONTRACTOR TO ENSURE COMPLETE HEAD TO HEAD COVERAGE W/ MINIMUM TO NO OVERSPRAY ON ALL IMPERVIOUS SURFACES. ALL ADJUSTMENTS TO BE MADE BY CONTRACTOR AT NO ADDITIONAL COST.
- ALL STATE OF TEXAS, TCEQ, AND LOCAL CODES, ORDINANCES, LAWS, AND RULES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WEATHER SHOWN OR NOT. THESE CODES, ORDINANCES, LAWS, AND RULES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE CODES, ORDINANCES, LAWS, AND RULES CONCERNING LANDSCAPE IRRIGATION.
- A LICENSED IRRIGATION CONTRACTOR (L.I.C.) SHALL SECURE ANY AND ALL NECESSARY PERMITS REQUIRED FOR THEIR SCOPE. A L.I.C. OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED.
- L.I.C. TO CONFIRM MINIMUM STATIC WATER OF 85 P.S.I. AT THE DISCHARGE SIDE OF THE IRRIGATION METER OR POINT OF CONNECTION. AND A MAXIMUM STATIC WATER PRESSURE OF 90 P.S.I. AT THE DISCHARGE SIDE OF THE IRRIGATION METER OR POINT OF CONNECTION. CONTACT CLIENT/ GENERAL CONTRACTOR IF STATIC PRESSURE IS OUTSIDE OF MINIMUM/MAXIMUM RANGE.
- MAINLINE PIPING SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18" AND LATERAL LINE PIPING SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12". CONTRACTOR TO USE WELD-ON #8 PURPLE PRIMER AND WELD-ON #705 SOLVENT ON THESE CONNECTIONS AND FITTINGS.
- PIPES TO BE SIZED PER MANUFACTURER'S RECOMMENDATIONS WITH FLOW TO NOT EXCEED A VELOCITY OF (5) FEET PER SECOND.
- HAND TRENCHING OR AIR SPADE ALLOWED ONLY IN EXISTING ROOT ZONES WITH MACHINE TRENCHING STRICTLY PROHIBITED.
- CONTRACTOR TO PROVIDE SLEEVES UNDER ALL HARDSCAPE, PAVING, WALKS, ETC. SLEEVES SHALL BE SCH. 40 PVC A MINIMUM OF TWO (2) SIZES LARGER THAN TOTAL PIPE SIZES. ALL SLEEVES FOR TEMPORARY IRRIGATION TO BE PERMANENT.
- ELECTRICAL POWER (120V) SHALL BE PROVIDED BY THE GENERAL CONTRACTOR WITHIN FIVE (5) FEET OF FINAL CONTROLLER LOCATION. L.I.C. TO PROVIDE FINAL INSTALLATION OF CONTROLLER AFTER FIVE (5) FEET. L.I.C. TO VERIFY EXACT LOCATION OF THE IRRIGATION CONTROLLER WITH CLIENT/GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL VALVE WIRE SHALL BE A MINIMUM OF 24 VOLT, #14 GAUGE, SINGLE CONDUCTOR "IRRIGATION WIRE" U.F. APPROVED FOR DIRECT BURIAL. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. ALL WIRE SPLICES SHALL INCLUDE 3M-DBV PERMANENT AND WATERPROOF PER MANUFACTURERS SPECIFICATIONS. ALL SPLICES SHALL BE LOCATED IN VALVE BOXES FOR FIELD INSPECTION.
- IF DECODERS ARE INSTALLED A DECODER GROUND ROD SHALL BE INSTALLED WITHIN A VALVE BOX AT A MINIMUM OF EVERY 500 L.F..
- ALL VALVE BOXES TO BE INSTALLED FLUSH WITH FINISH GRADE.
- ALL ROTARY HEADS TO BE INSTALLED WITH RIGID SCH. 80 PVC SWING JOINTS PER DETAIL SHOWN. USE WELD-ON #48 PURPLE PRIMER AND WELD-ON #705 SOLVENT ON THESE CONNECTIONS.
- NEW IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE-GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 48 INCHES NOT INCLUDING THE IMPERVIOUS SURFACES IN EITHER LENGTH OR WIDTH AND WHICH CONTAIN IMPERVIOUS PEDESTRIAN OR VEHICULAR TRAFFIC SURFACES ALONG TWO OR MORE PERIMETERS. IF POP-UP SPRAYS OR ROTARY SPRINKLER HEADS ARE USED IN A NEW IRRIGATION SYSTEM, THE SPRINKLER HEADS MUST DIRECT FLOW AWAY FROM ANY ADJACENT SURFACE AND SHALL NOT BE INSTALLED CLOSER THAN SIX (6) INCHES FROM A HARDSCAPE (OR AS REQUIRED BY ORDINANCE), SUCH AS, BUT NOT LIMITED TO, A BUILDING FOUNDATION, FENCE, CONCRETE, ASPHALT, PAVERS, OR STONES SET WITH MORTAR.
- ALL PLANTING BED DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED 2-INCHES (2") BELOW FINISH GRADE. ALL DRIPLINE TO BE STAKED WITH BEND GALVANIZED THE DOWN STAKES INSTALLED EVERY 4'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.
- ALL TURF DRIPLINE AND DISTRIBUTION TUBING TO BE INSTALLED 2-INCHES (2") BELOW FINISH GRADE. ALL DRIPLINE TO BE STAKED WITH BEND GALVANIZED THE DOWN STAKES INSTALLED EVERY 4'-0" ON CENTER ALONG LENGTH OF TUBING AND A MINIMUM OF 24" FROM ANY FITTINGS.
- INCLUDE THE FOLLOWING ALLOWANCES FOR PROVIDING AND INSTALLING AIR RELIEF VALVES AND FLUSH VALVES FOR THE DRIP SYSTEM. EXACT QUANTITY AND LOCATION OF THESE DEVICES WILL BE DETERMINED AT THE TIME OF INSTALLATION. IN GENERAL, ALL AIR RELIEF VALVES WILL BE INSTALLED AT THE HIGH POINTS AND FLUSH VALVES WILL BE INSTALLED AT THE LOW POINTS. ALLOW FOR APPROXIMATELY TWO (2) AIR RELIEF VALVES AND APPROXIMATELY TWO (2) FLUSH VALVES FOR EACH DRIP ZONE KIT.
- CHECK VALVES TO BE USED AS NEEDED TO PREVENT LOW-HEAD DRAINAGE.
- FINAL LOCATION OF BACKFLOW PREVENTER, CONTROLLER AND WEATHER SENSORS SHALL BE APPROVED BY BOTH THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT/OWNERS REPRESENTATIVE.
- L.I.C. TO CONTACT LOCAL 811 AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.

**IRRIGATION LEGEND**

- HUNTER PCB-50 SERIES PRESSURE COMPENSATING BUBBLER NOZZLE (2) PER TREE
- HUNTER PROS-04 SERIES POP UP SPRAY HEAD WITH HUNTER MP ROTATOR SERIES NOZZLES
- NETAFIM TECHLINE TLCV6-12 SERIES DRIP TUBE SPACED 18" IN PLANT BEDS INSTALLED AT 2" BELOW GRADE
- HUNTER ICV-G SERIES ELECTRIC REMOTE CONTROL VALVE WITH FLOW CONTROL (INSTALL ICD-100 SINGLE STATION DECODER W/ VALVE ON 2-WIRE SYSTEMS)
- HUNTER ICV-G SERIES ELECTRIC REMOTE CONTROL VALVE WITH FLOW CONTROL (INSTALL ICD-100 SINGLE STATION DECODER W/ VALVE ON 2-WIRE SYSTEMS) - "TREE BUBBLER ZONE"
- HUNTER ICZ SERIES ELECTRIC REMOTE CONTROL VALVE WITH FLOW CONTROL (1" ICV-101-LF) (1-1/2" ICV-151-XL) (INSTALL ICD-100 SINGLE STATION DECODER W/ VALVE ON 2-WIRE SYSTEMS) - "LANDSCAPE DRIP ZONE" SET PRESSURE REGULATOR TO 30 P.S.I.
- IRRIGATION WATER METER AND TAP, SIZE AS NOTED ON THE PLAN
- FENCO 850-100 SERIES D.C.A. INSTALLED PER CITY CODE, WITH SAME SIZE WATTS 8000 SERIES BRONZE BALL VALVE AND WATTS 777 SERIES BRONZE WYE FILTER WITH STAINLESS STEEL SCREEN
- HUNTER I-CORE IC-600-M CONTROLLER W/ ICM-600 MODULES AS NEEDED, PLUS DUAL 48M FOR 2-WIRE SYSTEMS - LOCATED AS FIELD DIRECTED BY G.C.
- HUNTER WRF-CLK WIRELESS RAIN/FREEZE SENSOR - LOCATED AS FIELD DIRECTED BY G.C.
- CLASS 200 PVC MAINLINE PIPE (REF. PLAN FOR SIZE)
- CLASS 200 LATERAL LINE PIPE (CLASS 315 FOR 1/2" PIPE) (REF. PLAN FOR SIZE)
- SCH 40 SLEEVE PIPES (2) SIZES LARGER THAN TOTAL PIPE SIZES

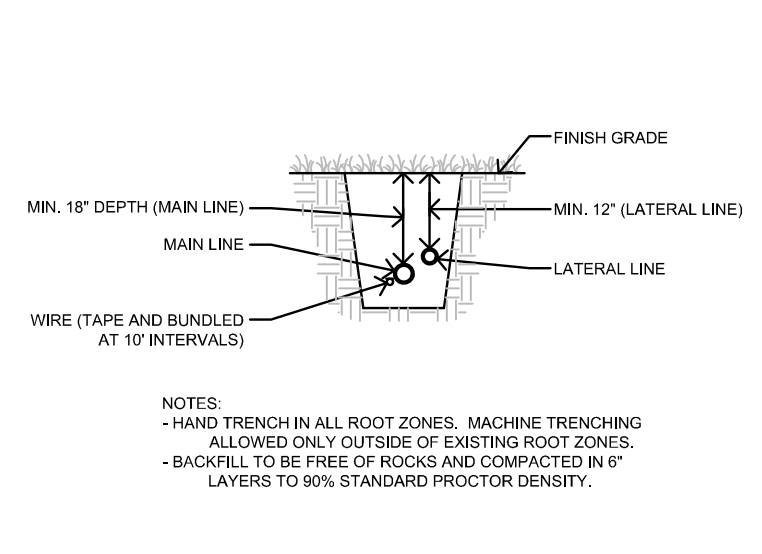
\*\* L.I.C. SHALL SELECT APPROPRIATE NOZZLES AS TO HAVE HEAD TO HEAD COVERAGE FOR MINIMUM OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.

**VALVE KEY**

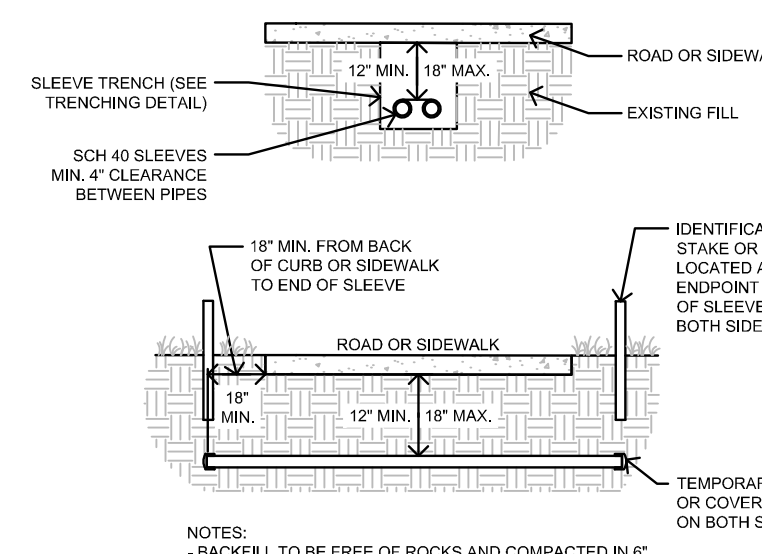


**PRESSURE CALCULATIONS**

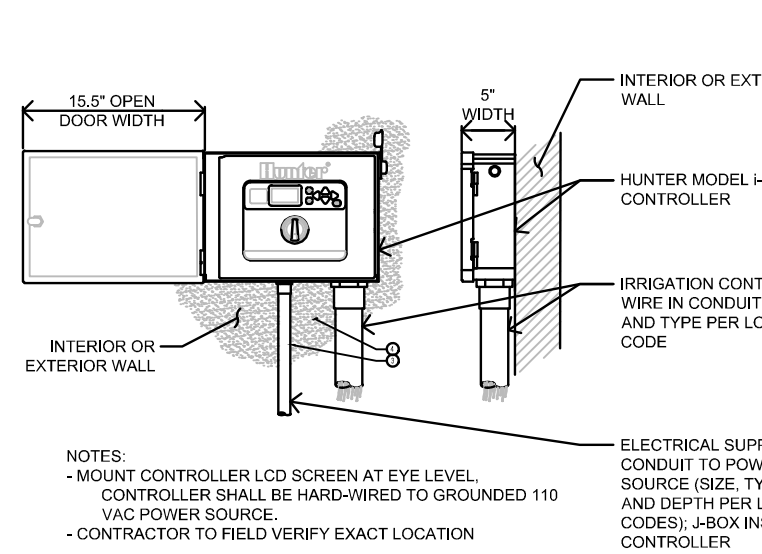
ZONE 3			
	SIZE	CALCULATIONS	PRESSURE LOSS
WATER METER	1"		8.3
DCA BACKFLOW	1"		6.9
MASTER VALVE	1"		3.0
MAIN LINE	1"	.7 x 2.7	1.9
ZONE VALVE	1"		3.0
LATERAL LINES	VARIABLES		1.7
TOTAL LOSS			24.8
RECOMMENDED PRESSURE			30
DESIGN PRESSURE			60.0
ACTUAL HEAD PRESSURE			35.2



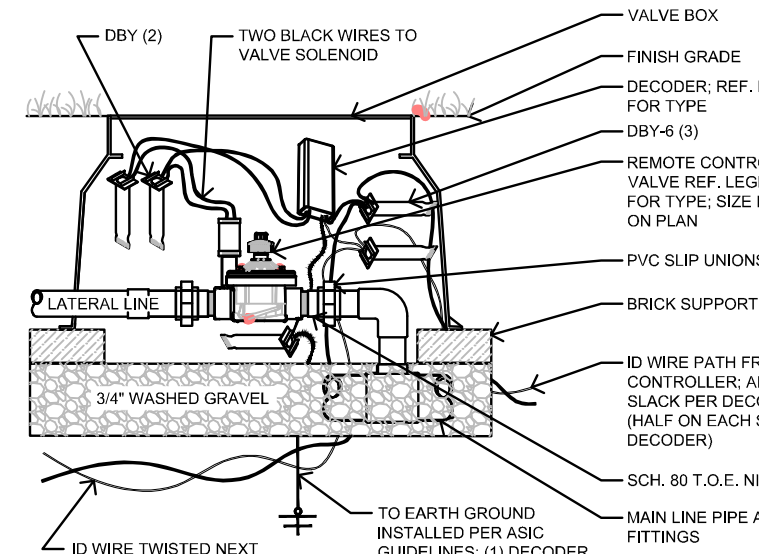
**TRENCH DETAIL**  
NOT TO SCALE



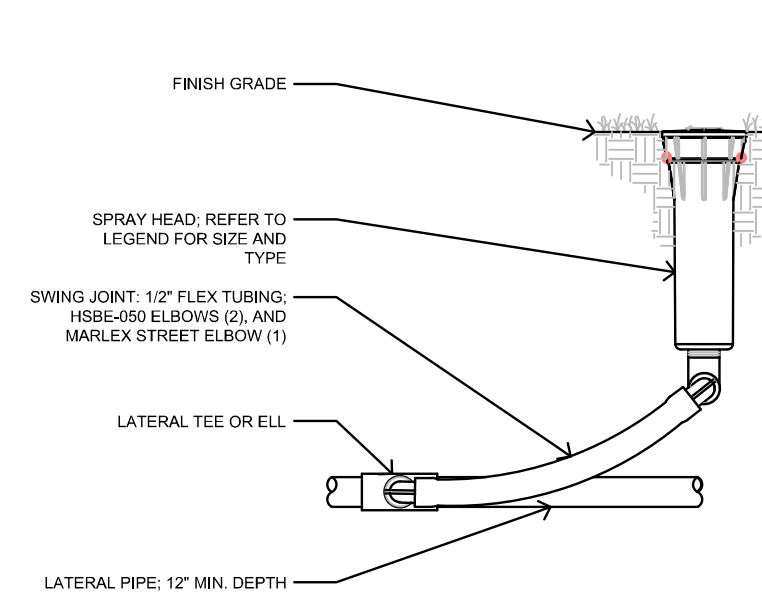
**SLEEVE DETAIL**  
NOT TO SCALE



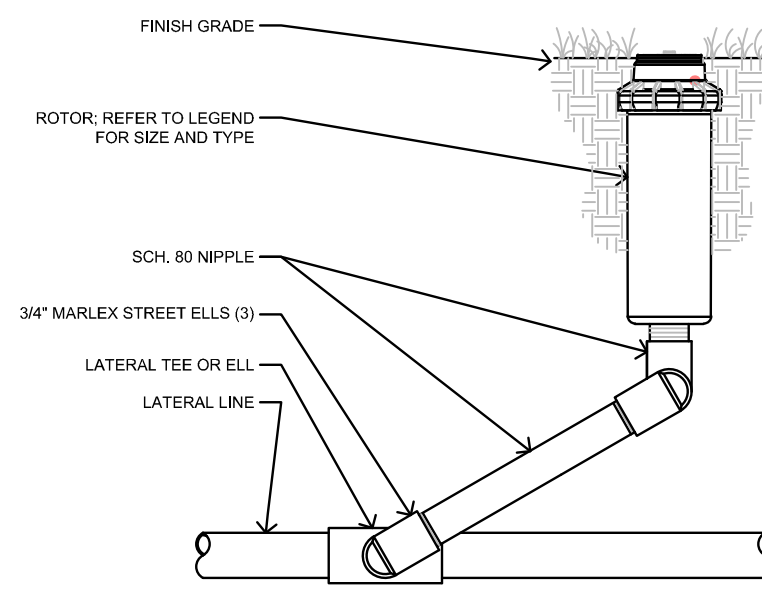
**HUNTER I-CORE WALL MOUNTED CONTROLLER**  
NOT TO SCALE



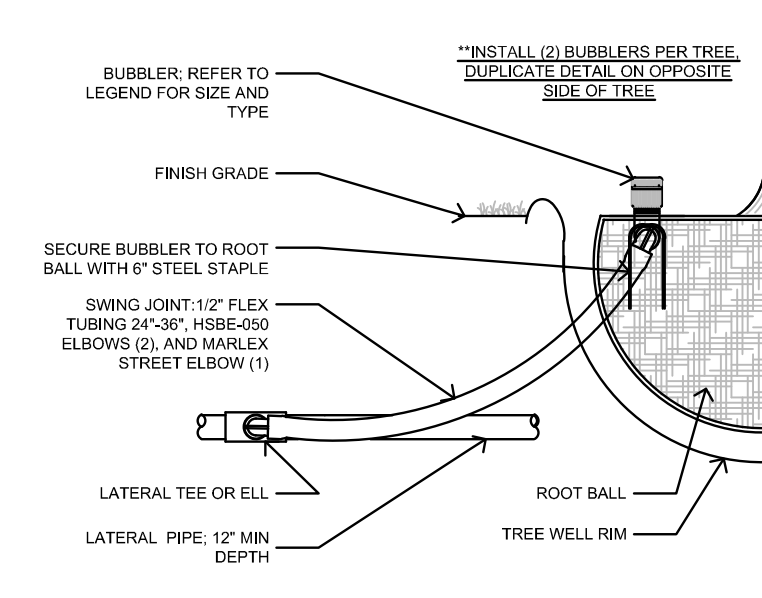
**VALVE ASSEMBLY W/ OPTIONAL DECODER**  
NOT TO SCALE



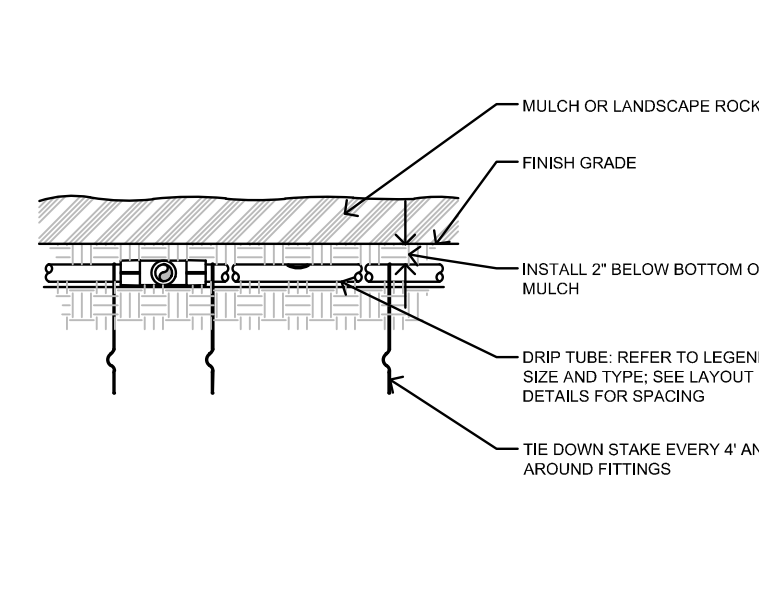
**POP-UP SPRAY HEAD DETAIL**  
NOT TO SCALE



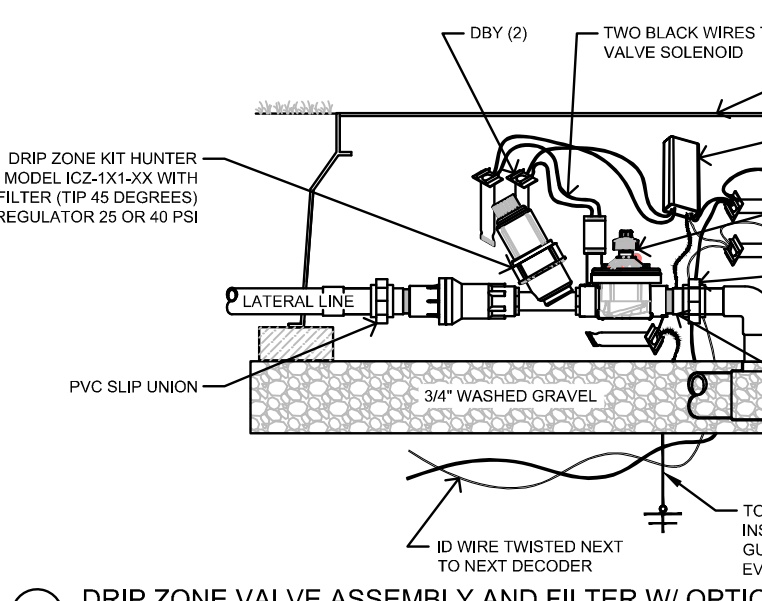
**ROTOR HEAD DETAIL**  
NOT TO SCALE



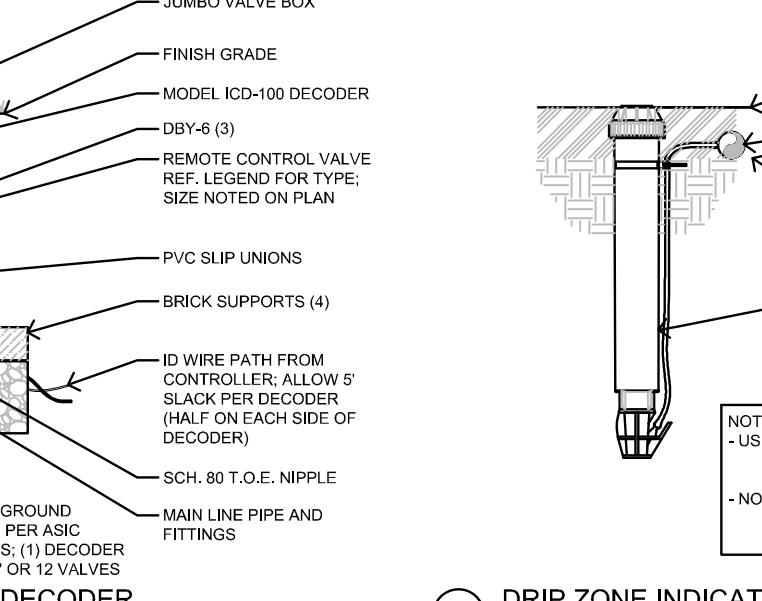
**TREE BUBBLER DETAIL**  
NOT TO SCALE



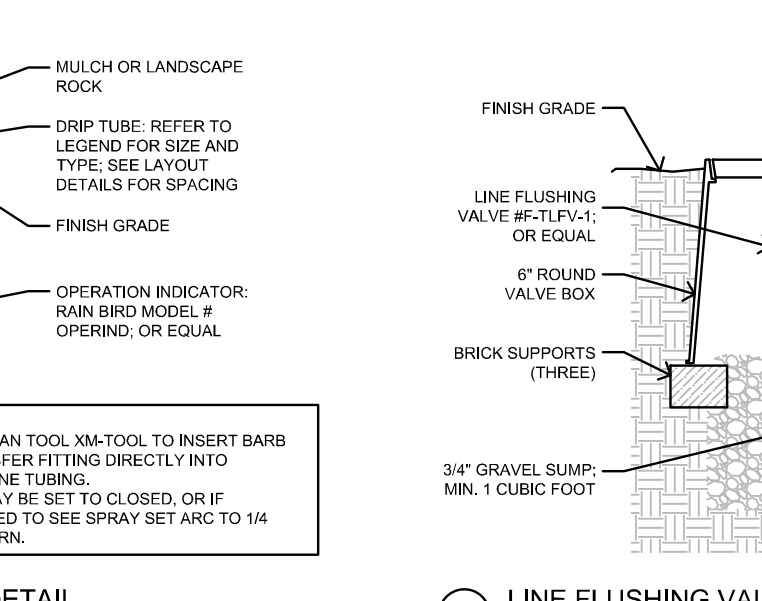
**DRIP DETAIL**  
NOT TO SCALE



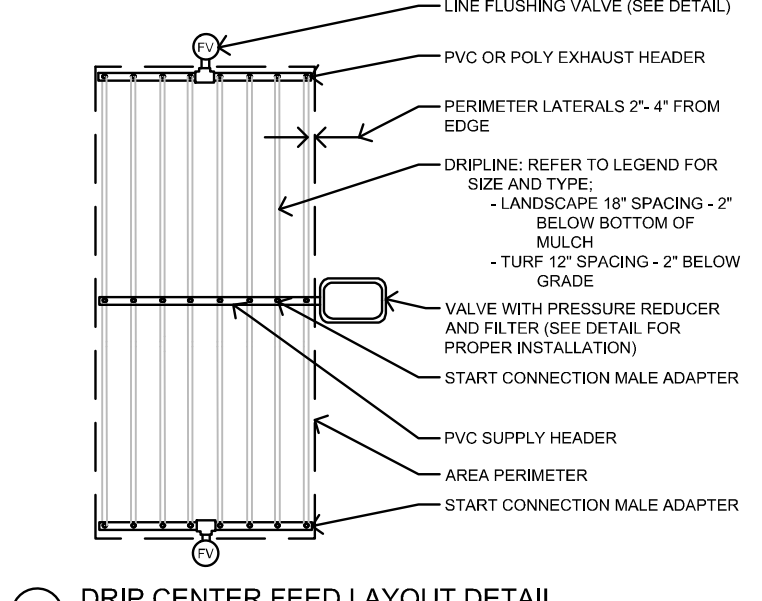
**DRIP ZONE VALVE ASSEMBLY AND FILTER W/ OPTIONAL DECODER**  
NOT TO SCALE



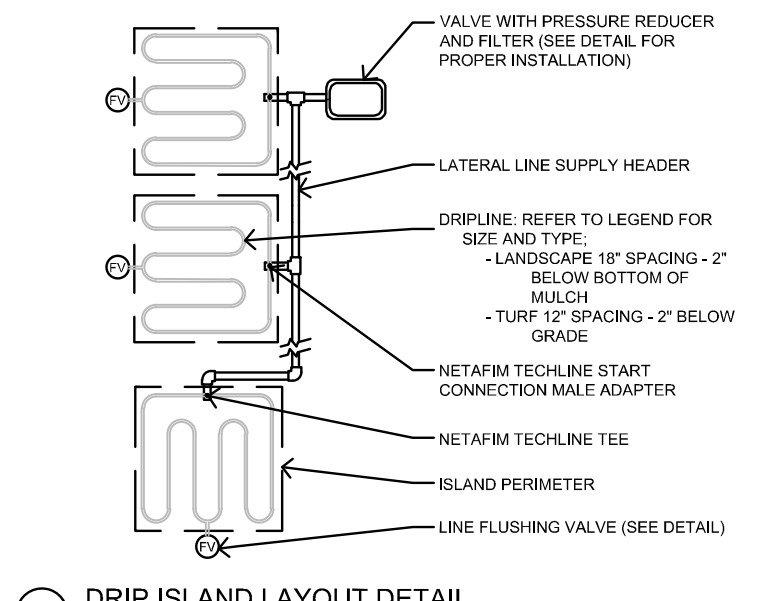
**DRIP ZONE INDICATOR DETAIL**  
NOT TO SCALE



**LINE FLUSHING VALVE DETAIL**  
NOT TO SCALE

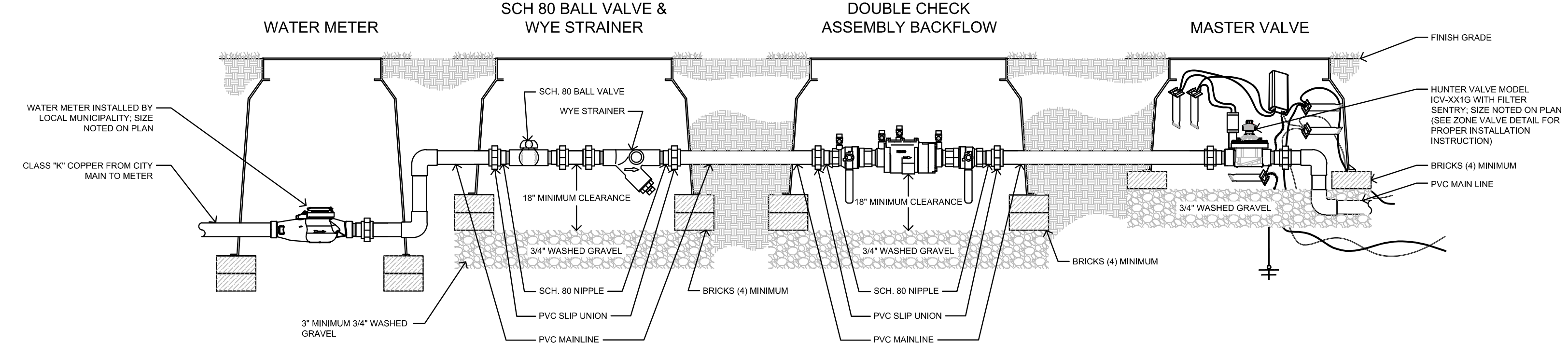


**DRIP CENTER FEED LAYOUT DETAIL**  
NOT TO SCALE



**DRIP ISLAND LAYOUT DETAIL**  
NOT TO SCALE

**\*\* CONFIRM WITH LOCAL MUNICIPALITY CODES AND REQUIREMENTS BEFORE INSTALLATION**



**WATER SOURCE LAYOUT DETAILS: WATER METER - BALL VALVE - WYE STRAINER - BACKFLOW ASSEMBLY - MASTER VALVE**  
NOT TO SCALE

