

SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPT
		21	FAN TEX ASH	FRAXINUS VELUNTINA	2*	10'		TREE	DECIDUOUS
		21	RAYWOOD ASH	FRAXINUS OXYCARPA	2*	10'		TREE	DECIDUOUS
			GRO	OUND COVERS					
4 4	CONCRE	TE WALK	PATH (15,260 SQ. FT.)						
	CANYON	RED RO	OCK W/NON WOVEN POLY	PROPYLENE WEED BARRIER (14	1,445 SQ. FT	.)	3/4"-1"	ROCK	GROUND COV

REDS 12/21/12

REDS 02/11/13

REDS 02/22/13



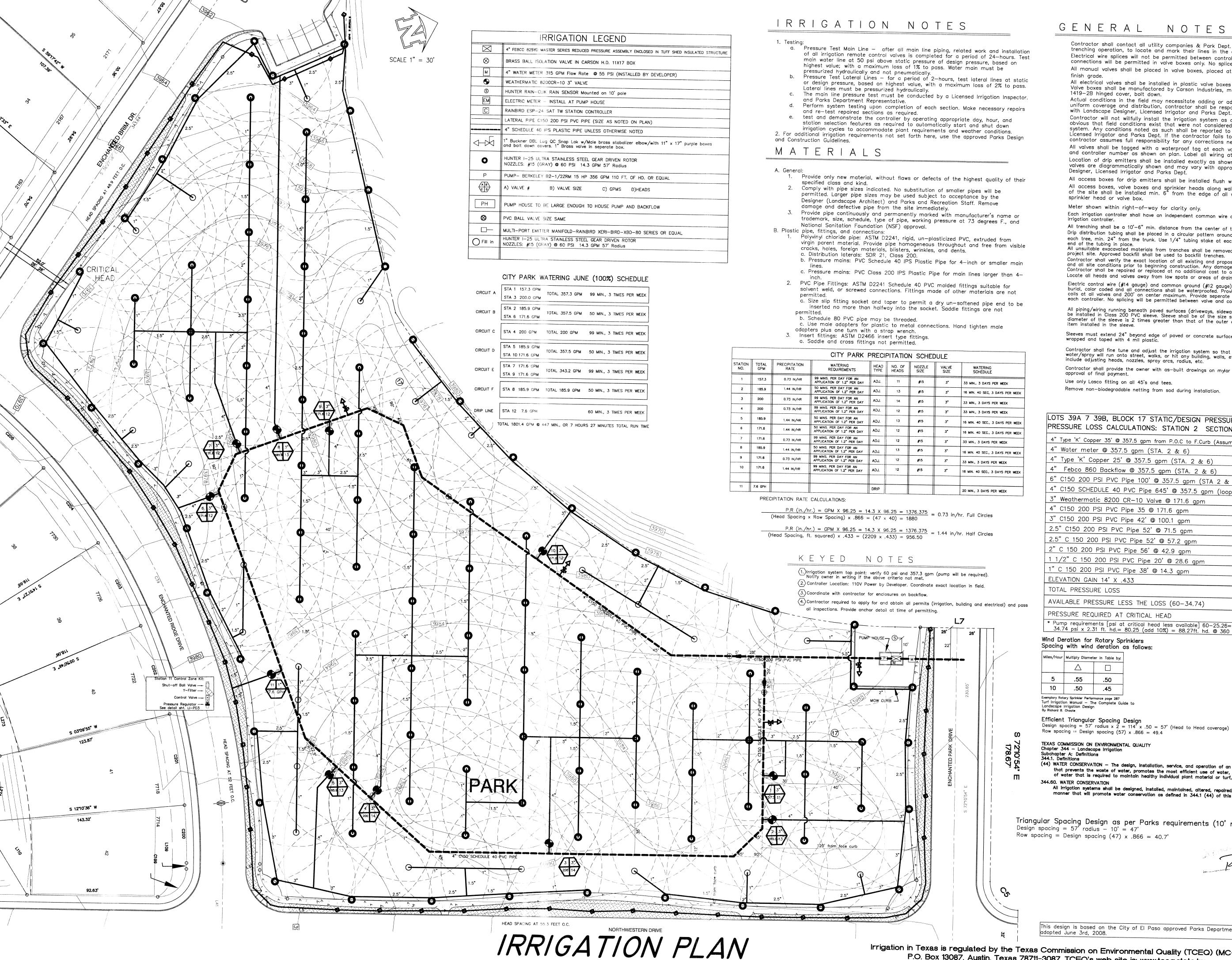
SIDEWALK SECTION ADJACENT TO CURB AND GUTTER
SCALE: NTS

- 4. SIDEWALK TO BE FINISHED 2" ABOVE ADJACENT FINISHED GRADE.

LANDSCAPE Drawn by: TMI Checked by: RV PROJECT: EH3LI20120706PARK PHASE: PRELIM-FINAL

Sheet no.

Sheet no. 1 of 3



GENERAL NOTES

Contractor shall contact all utility companies & Park Dept. before any trenching operation, to locate and mark their lines in the area of work. Electrical wire splices will not be permitted between controller and valves, all connections will be permitted in valve boxes only. No splices will be buried. All manual valves shall be placed in valve boxes, placed at proper depth in relation to

All electrical valves shall be installed in plastic valve boxes with locking covers. Valve boxes shall be manufactored by Carson Industries, model series 1419 box with 1419-2B hinged cover, bolt down. Actual conditions in the field may necessitate adding or adjusting heads to insure

uniform coverage and distribution, contractor shall be responsible for field changes with Landscape Designer, Licensed Irrigator and Parks Dept. Contractor will not willfully install the irrigation system as designed, when it is obvious that field conditions exist that were not considered at time of designing the system. Any conditions noted as such shall be reported to the Landscape Designer,

Licensed Irrigator and Parks Dept. If the contractor fails to do so, the contractor assumes full responsibility for any corrections needed. All valves shall be tagged with a waterproof tag at each valve showing valve number and controller number as shown on plan. Label all wiring at controllers and panel. Location of drip emitters shall be installed exactly as shown on plans. Piping and valves are diagrammatically shown and may vary with approval from Landscape Designer, Licensed Irrigator and Parks Dept.

All access boxes for drip emitters shall be installed flush with grade. All access boxes, valve boxes and sprinkler heads along walkways within interior grounds of the site shall be installed min. 6" from the edge of all walkways to the back of the sprinkler head or valve box.

Meter shown within right—of—way for clarity only. Each irrigation controller shall have an independent common wire of any other

All trenching shall be a 10'-6" min. distance from the center of the trunk of any Drip distribution tubing shall be placed in a circular pattern around the trunk of each tree, min. 24" from the trunk. Use 1/4" tubing stake at each tube to hold the end of the tubing in place. All unsuitable exacavated materials from trenches shall be removed from the project site. Approved backfill shall be used to backfill trenches.

Contractor shall verify the exact location of all existing and proposed utilities and all site conditions prior to beginning construction. Any damage caused by the Contractor shall be repaired or replaced at no additional cost to owner. Locate all heads and valves away from low spots or areas of drainage flow. Electric control wire (#14 gauge) and common ground (#12 gauge) shall be direct burial, color coded and all connections shall be waterproofed. Provide expansion coils at all valves and 200' on center maximum. Provide seperate common wire for each controller. No splicing will be permitted between valve and controller.

All piping/wiring running beneath paved surfaces (driveways, sidewalks, etc.) shall be installed in Class 200 PVC sleeve. Sleeve shall be of the size so that the inside diameter of the sleeve is 2 times greater than that of the outer diameter of the

Sleeves must extend 24" beyond edge of paved or concrete surfaces and ends wrapped and taped with 4 mil plastic.

Contractor shall fine tune and adjust the irrigation system so that no water/spray will run onto street, walks, or hit any building, walls, etc. This shall include adjusting heads, nozzles, spray arcs, radius, etc. Contractor shall provide the owner with as-built drawings on mylar prior to approval of final payment.

Remove non-biodegradable netting from sod during installation.

#### LOTS 39A 7 39B, BLOCK 17 STATIC/DESIGN PRESSURE 55/93 PSI PRESSURE LOSS CALCULATIONS: STATION 2 SECTION 171.6 GPM

4" Type 'K' Copper 35' @ 357.5 gpm from P.O.C to F.Curb (Assume	ed) 1.32	Psi	Loss
4" Water meter @ 357.5 gpm (STA. 2 & 6)			i Los
4" Type 'K' Copper 25' @ 357.5 gpm (STA. 2 & 6)	0.75	Psi	Loss
4" Febco 860 Backflow @ 357.5 gpm (STA. 2 & 6)			
6" C150 200 PSI PVC Pipe 100' @ 357.5 gpm (STA 2 & 6	6) 0.38	Psi	Loss
4" C150 SCHEDULE 40 PVC Pipe 645' @ 357.5 gpm (loope	d) 8.59	Psi	Loss
3" Weathermatic 8200 CR-10 Valve @ 171.6 gpm	3.51		
4" C150 200 PSI PVC Pipe 35 @ 171.6 gpm	0.23		
3" C150 200 PSI PVC Pipe 42' @ 100.1 gpm	0.33	 Psi	Loss
2.5" C150 200 PSI PVC Pipe 52' @ 71.5 gpm	0.59		
2.5" C 150 200 PSI PVC Pipe 52' @ 57.2 gpm	0.39		
2" C 150 200 PSI PVC Pipe 56' @ 42.9 gpm	0.69		
1 1/2" C 150 200 PSI PVC Pipe 20' @ 28.6 gpm	0.33	************	
1" C 150 200 PSI PVC Pipe 38' @ 14.3 gpm	1.00		
ELEVATION GAIN 14' X .433	(6.00		
TOTAL PRESSURE LOSS	34.74		
AVAILABLE PRESSURE LESS THE LOSS (60-34.74)			LUSS
	25.26	Psi	
PRESSURE REQUIRED AT CRITICAL HEAD	60.00		
* Pump requirements [psi at critical head less available] 60-25.26=3 34.74 psi x 2.31 ft. hd.= 80.25 (add 10%) = 88.27ft. hd. @ 360 G	4.74 psi		
, J.	// I <b>VI</b>		

Wind Deration for Rotary Sprinklers Spacing with wind deration as follows:

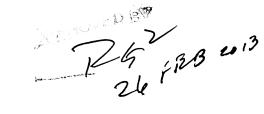
Miles/Hour Multiply Diameter in Table by  $\triangle$ 5 .55 10 .50 .45

Landscape Irrigation Design By Richard B. Choote

Row spacing := Design spacing (57)  $\times$  .866 = 49.4 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

(44) WATER CONSERVATION — The design, installation, service, and operation of an irrigation system in a manner that prevents the waste of water, promotes the most efficient use of water, and applies the least amount of water that is required to maintain healthy individual plant material or turf, reduce dust, and control erosion. All irrigation systems shall be designed, installed, maintained, altered, repaired, serviced, and operated in a manner that will promote water conservation as defined in 344.1 (44) of this title (relating to Definitions).

Triangular Spacing Design as per Parks requirements (10' minimum overspray) Design spacing = 57 radius - 10 = 47



This design is based on the City of El Paso approved Parks Department Design Standards

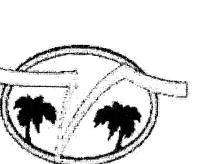
REDS 12/21/12

REDS 02/11/13

REDS 02/22/13

REDS 02/25/13

 $\mathcal{O}_{\mathbf{i}}$ ENCHANTED HILLS UNIT 3 PARK SITE 7700 ENCHANTED PARK DRIVE
a portion of Tract 9A, Laura E. Mundy Survey Notity of El Paso, El Paso, County, Texas TBKA: All of Lots 39A and 39B, Block 17
Enchanted Hills Unit Three (188,937 Sq. ft. or 4.3374 Ac.)

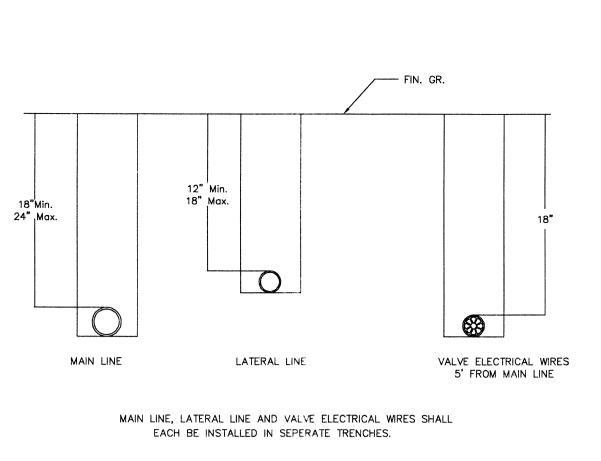


IRRIGATION Drawn by: TMI Checked by: RV PROJECT: EH3L120120709PARK PRELIM-FINAL

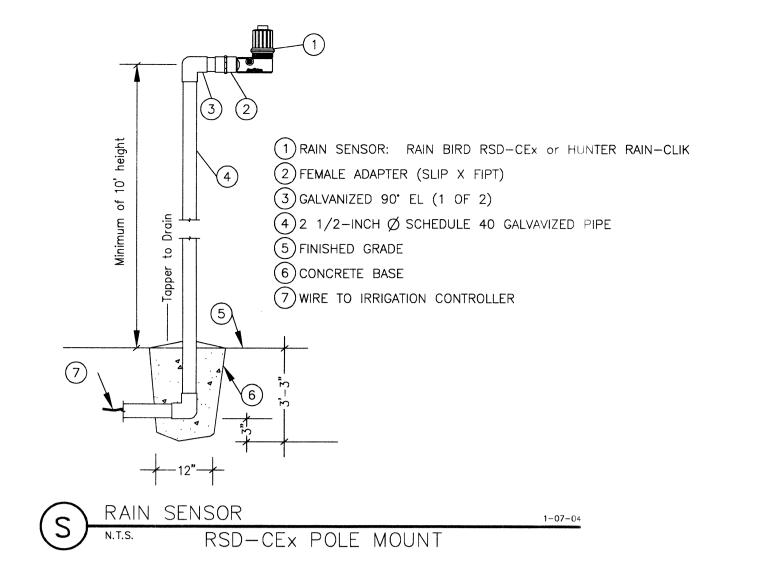
Sheet no.

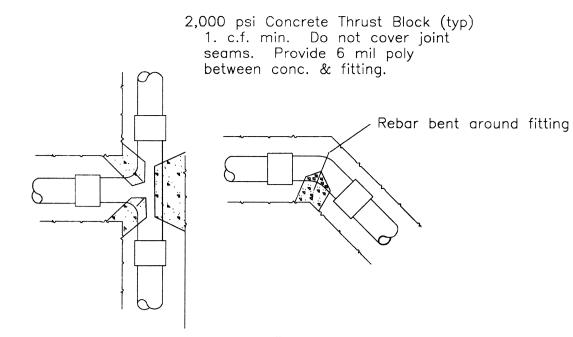
Sheet no. 2 of 3

Irrigation in Texas is regulated by the Texas Commission on Environmental Quality (TCEQ) (MC-178), P.O. Box 13087, Austin, Texas 78711-3087. TCEQ's web site is: www.tceq.state.tx.us.



TRENCHING STANDARD DETAIL NOT TO SCALE



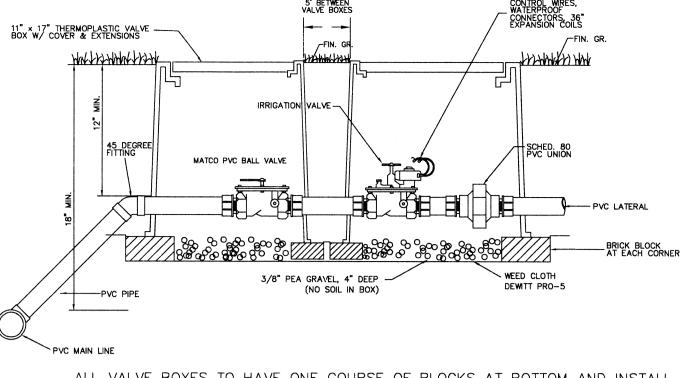


Thrust Blocks required on all 3" and Thrust Blocking Detail

NOT TO SCALE

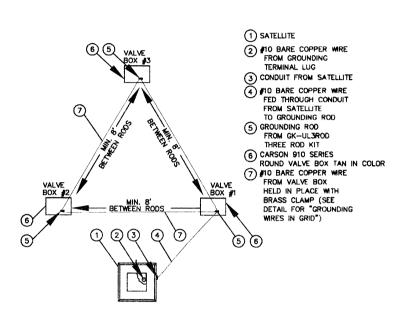
(1) FIELD SATELLITE CONTROLLER:

NOT TO SCALE

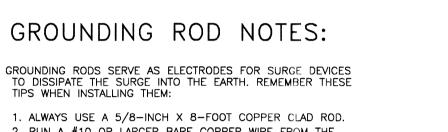


ALL VALVE BOXES TO HAVE ONE COURSE OF BLOCKS AT BOTTOM AND INSTALL EXTENSION BOXES TO SET TOP AT GRADE. INSURE THAT THERE IS A GAP BETWEEN VALVE BOX AND PIPE.

ELECTRIC CONTROL VALVE DETAIL NOT TO SCALE



TRIANGULAR GROUNDING GRID PLAN VIEW NOT TO SCALE



C-RSD-CEx POLE MOUNT.DWG

- 2. RUN A #10 OR LARGER BARE COPPER WIRE FROM THE DEVICE TO THE ROD.

  3. KEEP THE GROUND WIRES AS SHORT AND STRAIGHT AS POSSIBLE FROM THE DEVICE TO THE FIRST ROD.

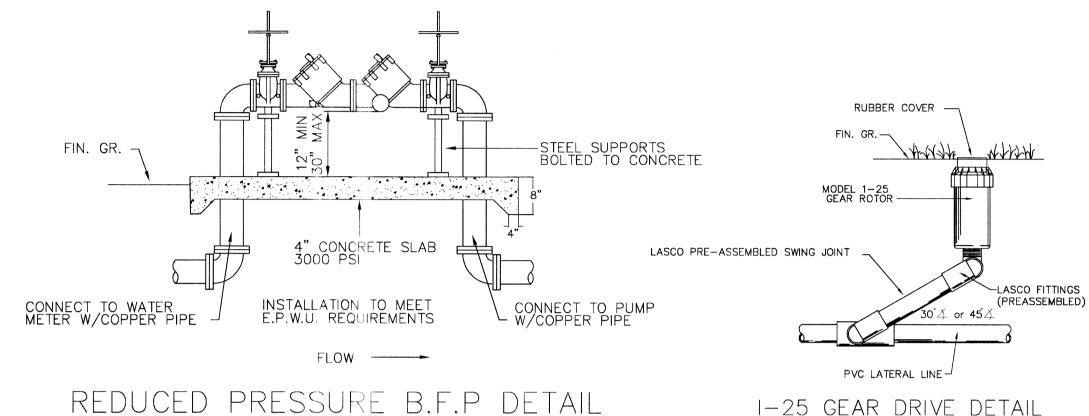
  4. CLAMP ALL WIRES TO THE GROUNDING ROD. DO NOT SOLDER OR TAPE THEM TO THE ROD.

  5. ALWAYS USE A SEPERATE CLAMP TO ATTACH EACH WIRE 6. TO INSTALL GROUNDING ROD, USE GK-TOOLS ROD
- 7. SPACE THREE RODS IN A TRIANGULAR GRID AT LEAST 8 FEET APART FROM THE OTHERS IN THE GRID. CONNECT ALL THREE RODS WITH A SOLID #10 COPPER WIRE. 8. WHEN TESTED WITH THE PROPER EQUIPMENT, GRIDS SHOULD HAVE AN EARTH RESISTANCE NO GREATER THAN 15 OHMS. 9. WHENEVER MORE THAN ONE WIRE IS ATTACHED TO A

GROUNDING ROD <u>ALWAYS</u> USE A SEPERATE CLAMP FOR EACH WIRE. TRYING TO INSTALL MORE THAN ONE

RESULTING IN HIGH RESDISTANCE LEVELS.

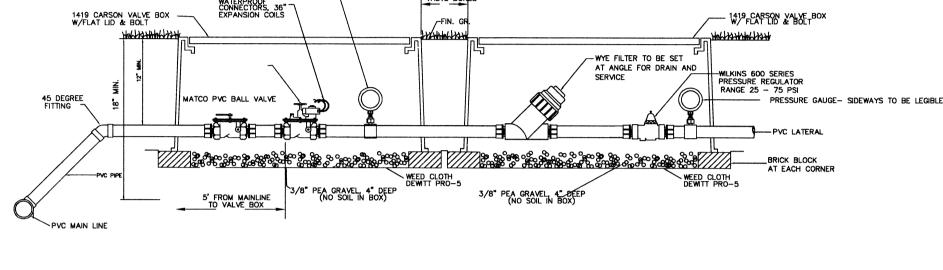
WIRE PER CLAMP COULD CAUSE A POOR CONNECTION



3/4" CDX grade plywood fastened to studs

in general area of pump(s).

Irrigation controllers shall be installed in water



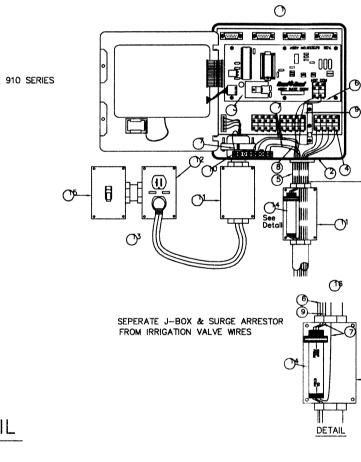
ALL WEED CLOTH AROUND VALVE AND EMITTER BOXES SHOULD BE TAPED AND SEALED AROUND PENETRATIONS TO PREVENT SOILS FROM ERODING INTO BOXES.

#### - FINISH GRADE CARSON VALVE BOX 910 SERIES W/LID & BOLT - #10 BARE COPPER WIRE FROM PREVIOUS ROD IN GRID - GROUNDING ROD FROM GK-UL3ROD THREE ROD KIT - #10 BARE COPPER WIRE CONTINUING TO

- BRASS CLAMP

SEE GROUNDING ROD NOTES FOR INSTALLATION INSTRUCTIONS.

GROUNDING WIRES IN GRID DETAIL NOT TO SCALE



INSTALL IN NEMA2 APPROVED ENCLOSURE RAIN BIRD ESP-SAT WALL MOUNT (METAL/PLASTIC) FIELD SATELLITE CONTROLLER (4) WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES

NOT TO SCALE

- USE ESP-MC QUICK CONNECT TERMINAL STRIP. ALL WIRES TO BE LABELED IN CONJUNCTION WITH EACH IRRIGATION REMOTE CONTROL VALVE. PLACE A QUICK DISCONNECT IN THIS GENERAL LOCATION SEPERATE FROM THE ONE ON THE CLOCK (CONTROLLER) (5) CABLE CONDUIT - SIZE AS REQUIRED COMMON WIRE (BLACK) FROM MSP-1 SURGE ARRESTOR TO
- MAXICOM INTERFACE BOARD (MIB) ALL GROUND WRES (GREEN) TO GROUNDING BUSS BAR #10 COPPER GROUND WIRE FROM ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)
- INTERFACE BOARD (MIB) (7) ESP FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR JUNCTION BOX - SIZE AS REQUIRED 120 VOLT POWER SUPPLY W/ G.F.C.I. PROTECTION

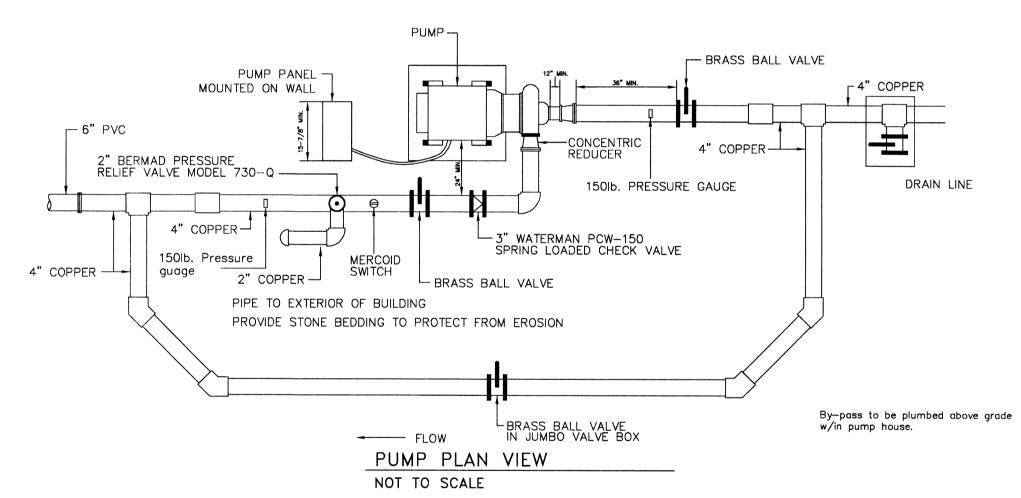
(9) HOT WIRE (RED) FROM MSP-1 SURGE ARRESTOR TO MAXICOM

7 REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS O4 RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR TO BE IN SEPERATE BOX WITH COVER POWER ON/OFF SWITCH

RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR ESP-24MCINSTALLATION DETAIL

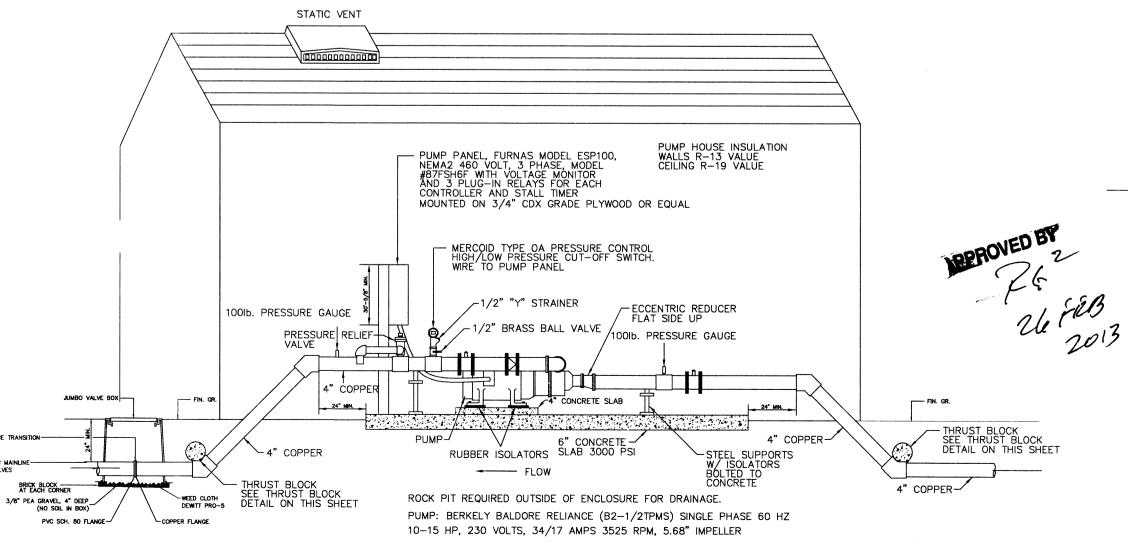
(2) CONCRETE FOOTING AROUND PUMP HOUSE: Surge arrestor (3) FINISH GRADE 2" BELOW CONCRETE PAD TO ACCEPT RUN—OFF PUMP STARTER 4 WIRES TO REMOTE CONTROL VALVES HIGH VOLTAGE (5) 3-INCH PVC SCH 40 CONDUIT, FITTINGS AND SWEEP ELL 6 1-INCH PVC SCH 40 CONDUIT, FITTINGS AND SWEEP ELL TO POWER SUPPLY ADJUSTABLE SPEED DRIVE

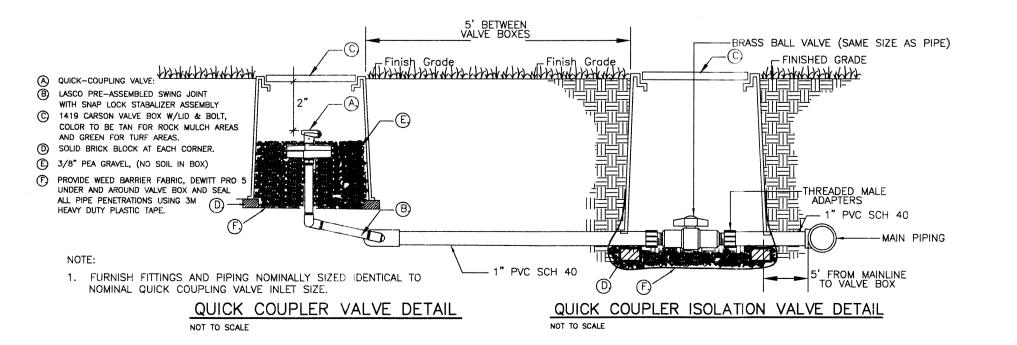
ELECTRIC CONTROL VALVE W/ FILTER & PRESSURE REGULATOR DETAIL NOT TO SCALE



PUMP ENCLOSURE TO BE A TUFF SHED OR EQUIVALENT INSULATED AND BOLTED ON CONCRETE FOOTING. SIZE OF TUFF SHED SHALL BE SIZED TO ACCOMODATE PUMP AND BACKFLOW.

FOOTING DETAIL TO BE SUBMITTED TO THE CITY AT TIME OF BUILDING PERMIT





#### **PUMPS**

12" CAUTION TAPE **/** 

A. Pump start relay shall be installed as required to meet pressure demands of system. B. Pump relays shall be minimum of 8' from irrigation controller.

TYPICAL PUMP, CONTROLLER PANEL INSIDE PUMP HOUSE

- C. Pump control wiring shall be on a separate circuits. D. Pumps shall be installed with high-pressure and low-pressure limit switches, relief
- valves, and pressure gauges on inlet and outlet sides of pump. Pumps shall be installed with cutoff valves on inlet and outlet sides. F. Pumps shall be installed with bypass piping and isolation valve.
  G. Pump houses shall be properly vented and allow for drainage to exterior of building.
- H. Pump relief valves shall be vented to exterior of pump houses.I. Irrigation controllers shall be installed in water tight NEMA rated, securable enclosures when set in general area of pump(s).

or placards that are fastened to electrical panels.

J. All electrical equipment and panels to be labeled with weather proof, permanent labels

PUMP DETAIL NOT TO SCALE

PARK

REDS 12/21/12

REDS 02/11/13

fundy Surventry, Texas

B, Block 1

portion of 'City of JTBKA: A

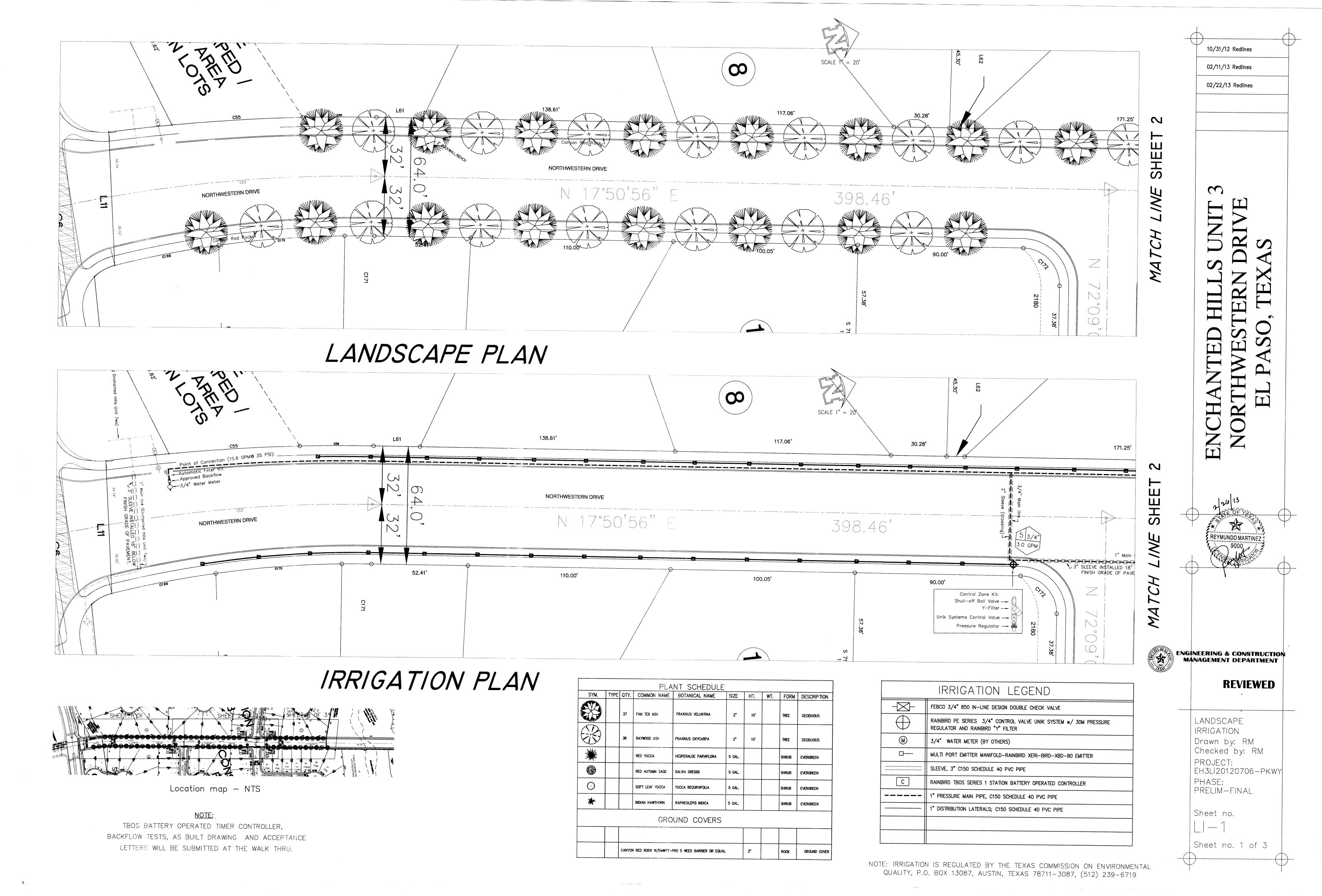
Drawn by: TMI Checked by: RV PROJECT:

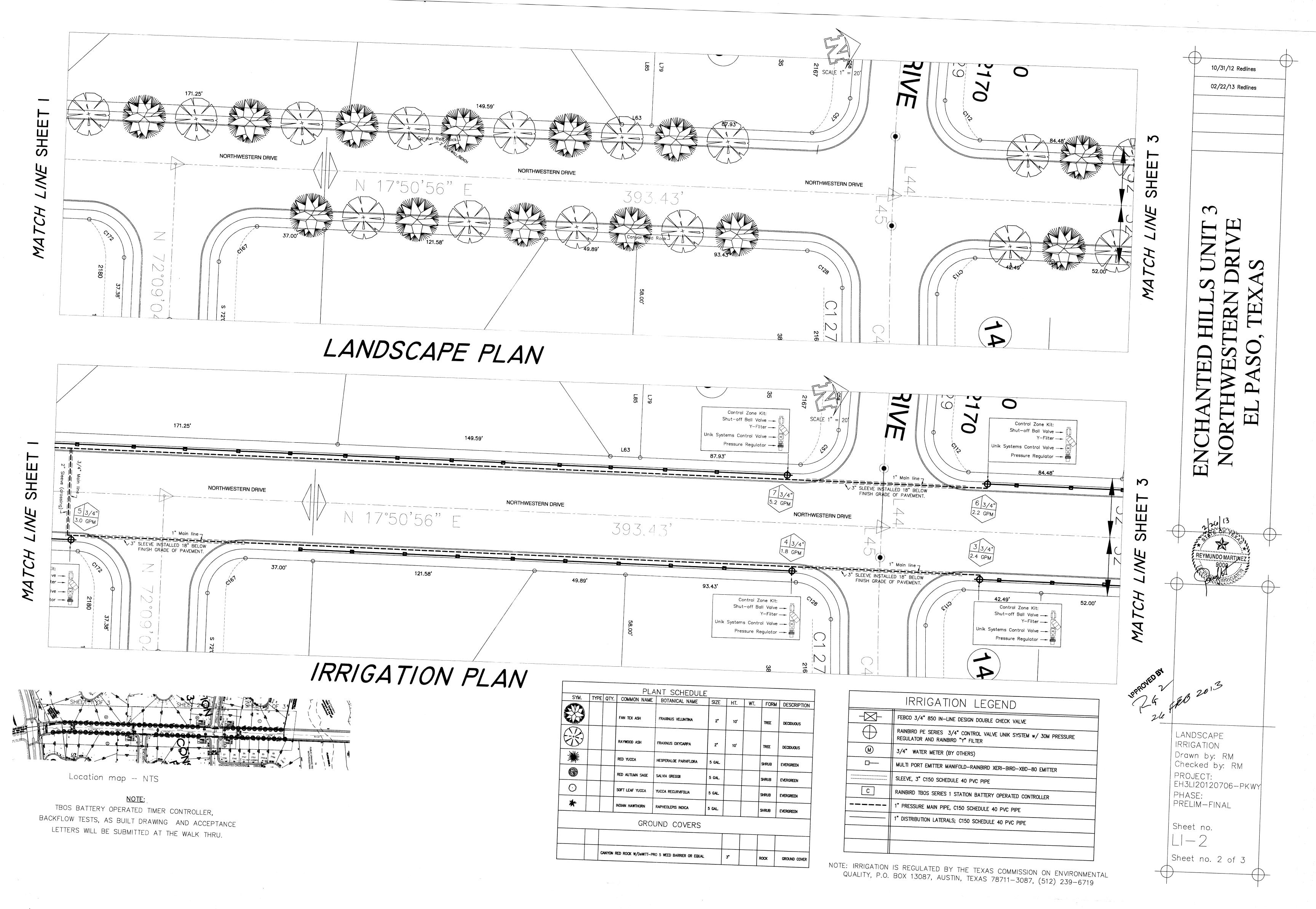
EH1LI20120709PARK PHASE:

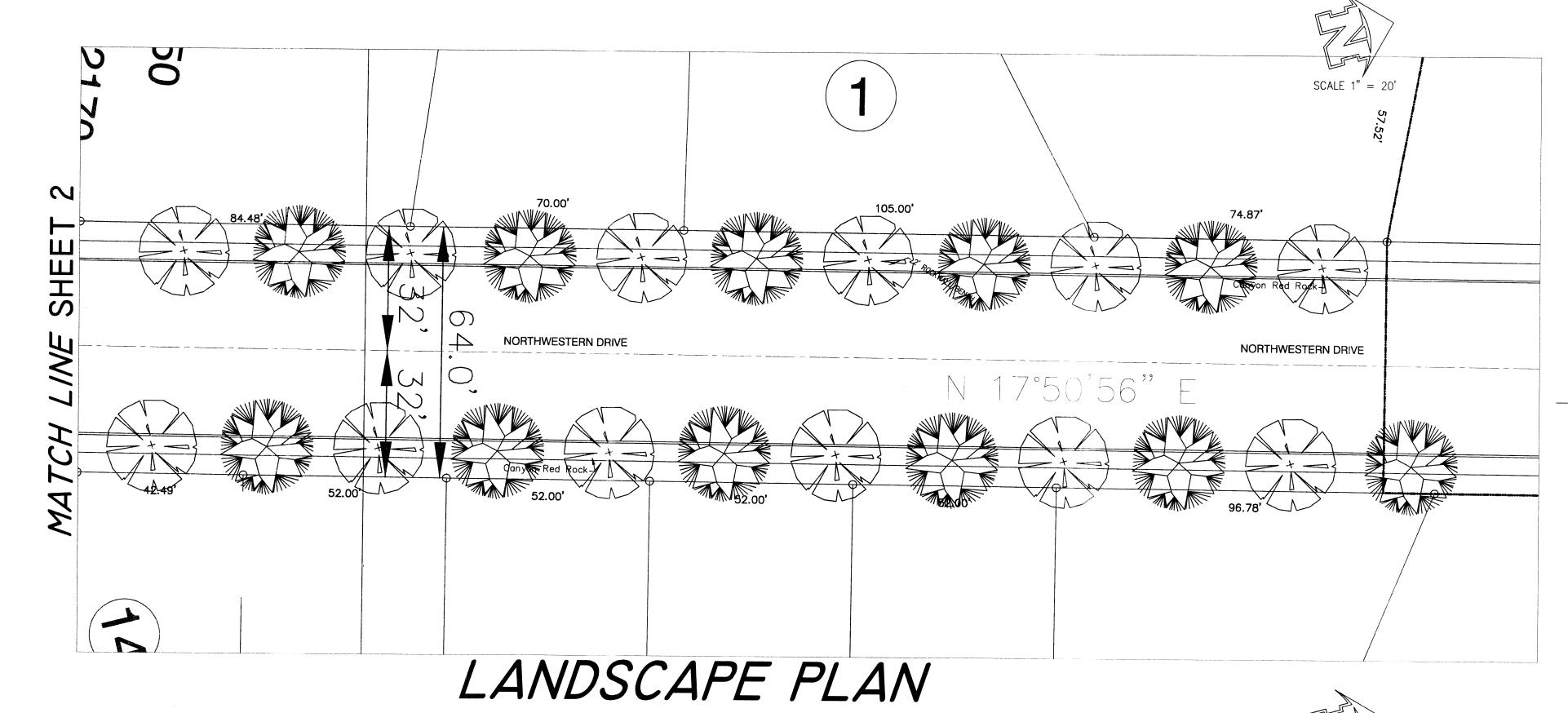
PRELIM-FINAL

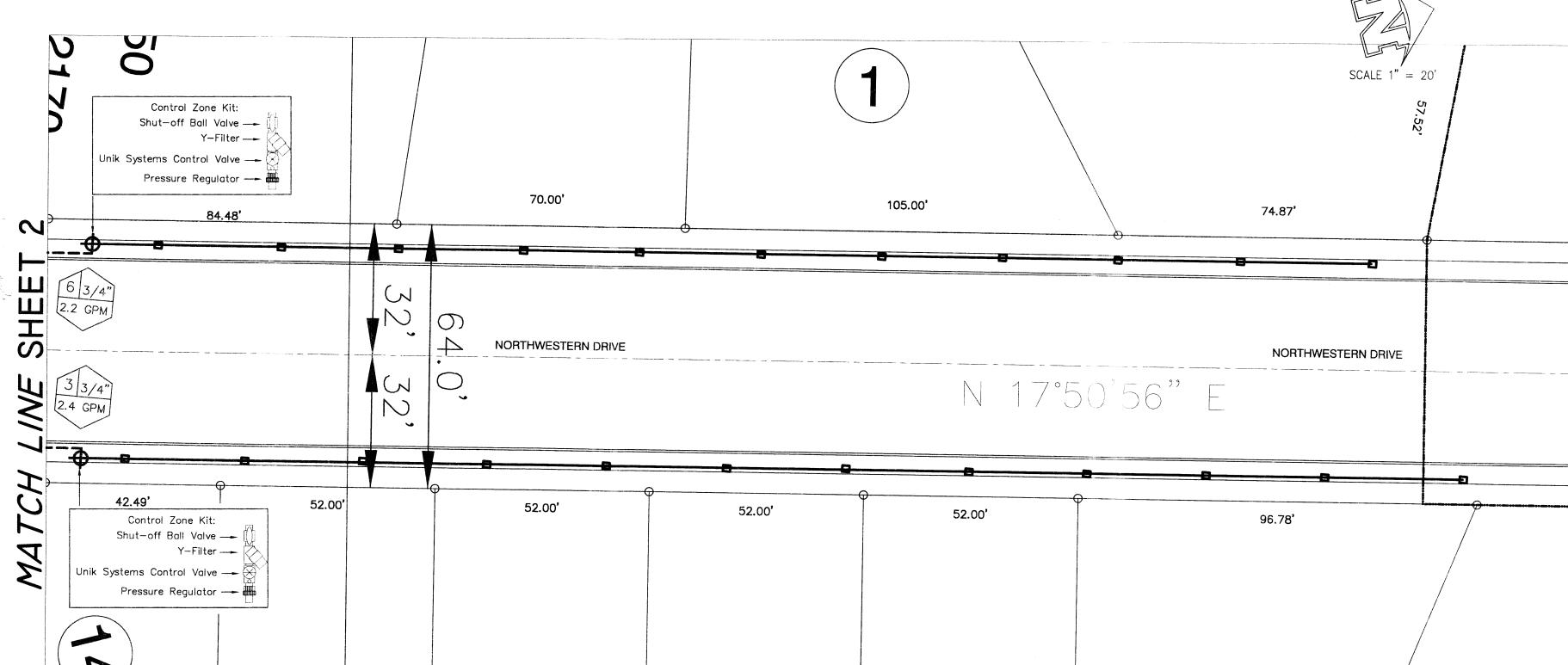
Sheet no.

Sheet no. 3 of 3

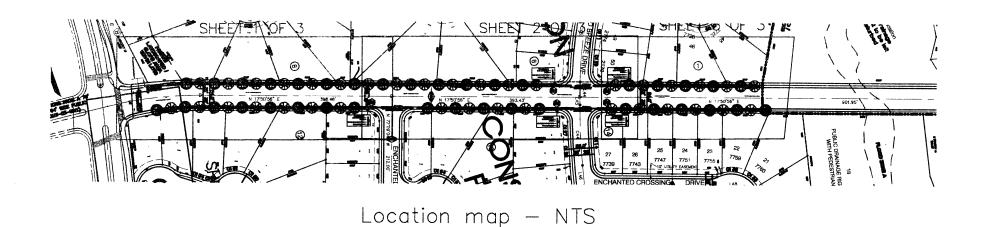








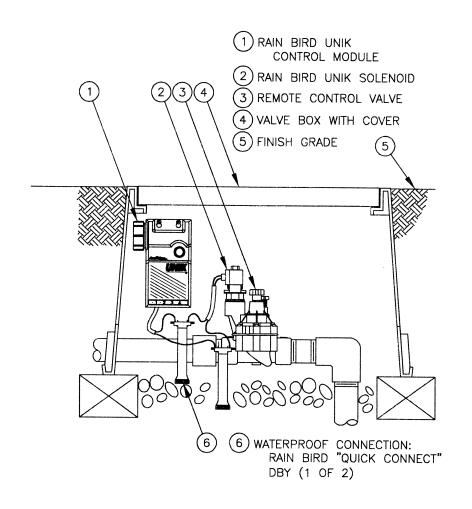




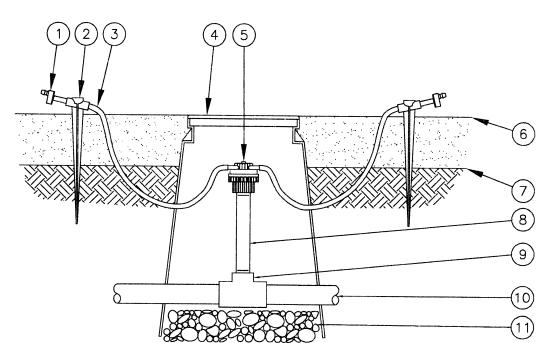
#### NOTE:

TBOS BATTERY OPERATED TIMER CONTROLLER, BACKFLOW TESTS, AS BUILT DRAWING AND ACCEPTANCE LETTERS WILL BE SUBMITTED AT THE WALK THRU.

			PLA	NT SCHEDULE	<b>-</b> •				
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTION
			FAN TEX ASH	FRAXINUS VELUNTINA	2*	10°		TREE	<b>DECIDUO</b> US
			RAYWOOD ASH	FRAXINUS OXYCARPA	2"	10°		TREE	DECIDUOUS
**			RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
			red autumn sage	SALVIA GREGGII	5 GAL.			SHRUB	EVERGREEN
0			SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL			SHRUB	EVERGREEN
*			INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL.			SHRUB	EVERGREEN
			GRC	UND COVERS					
		CANYO	N RED ROCK W/DeWIT-	PRO 5 WEED BARRIER OR EQU	AL	3"		ROCK	GROUND COVER



#### CONTROL VALVE UNIK SYSTEM



- 1) SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER:
  RAIN BIRD XERI-BUG OR PC MODULE EMITTER:
  (1 OF 2 SHOWN, 6 POSSIBLE)
  2) UNIVERSAL ¼" TUBING STAKE:
  RAIN BIRD TS-025
  (1 OF 2 SHOWN, 6 POSSIBLE)
  2) 1/" DISTRIBUTION TUBING:
- (3) ¼" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED)
- (1 OF 2 SHOWN, 6 POSSIBLE)

  (4) SUBTERRANEAN EMITTER BOX:
  RAIN BIRD SEB 7XB

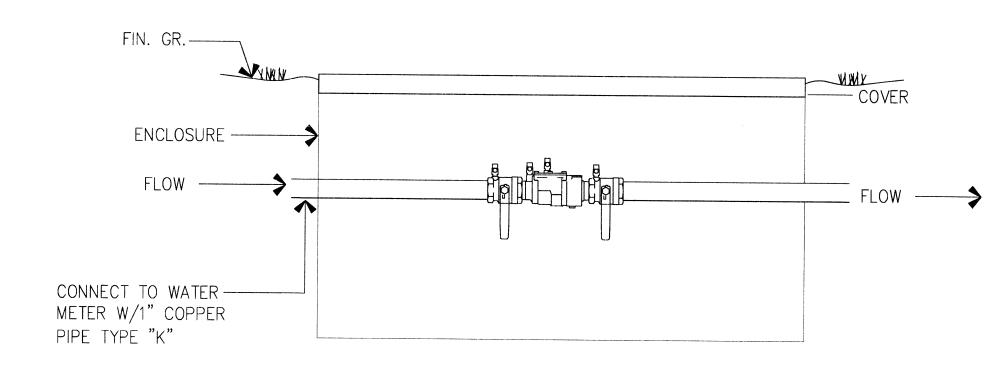
  (5) SIX OUTLET MANIFOLD:
  RAIN BIRD EMT. 6YERI
- RAIN BIRD EMT-6XERI

  6 TOP OF MULCH
- 7) FINISH GRADE
- 8 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
  9 PVC SCH 40 TEE OR ELL
- (10) PVC LATERAL PIPE
- (11) 3" MINIMUM DEPTH OF 34" WASHED GRAVEL

1. SHOULD THE EMITTER BECOME DISLODGED UNREGULATED FLOW WILL OCCUR.

2. THE 6 OUTLET MANIFOLD PROVIDES A CENTRALIZED WATER DISTRIBUTION CONNECTION FOR UP TO 6 EMISSION DEVICES. THE FOLLOWING EMITTERS CAN BE INSERTED INTO THE 14" TUBING FROM THE EMT-6XERI:

#### RAINBIRD XERI-BIRD 6 OUTLET MANIFOLD WITH EMITTER

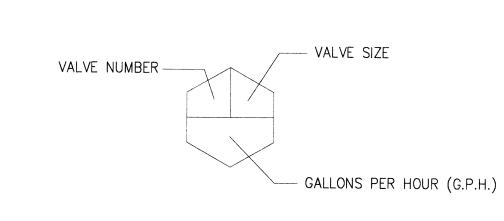


850 3/4" In—Line Design Double Check Valve Assembly

NOT TO SCALE

#### Pit Installation

	IRRIGATION LEGEND
->-	FEBCO 3/4" 850 IN-LINE DESIGN DOUBLE CHECK VALVE
$\bigoplus$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER
M	3/4" WATER METER (BY OTHERS)
D	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER
	SLEEVE, 3" C150 SCHEDULE 40 PVC PIPE
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER
	1" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE
	1" DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE



LANDSCAPE IRRIGATION Drawn by: RM Checked by: RM PROJECT: EH3L120120706-PKWY PHASE: PRELIM-FINAL Sheet no.

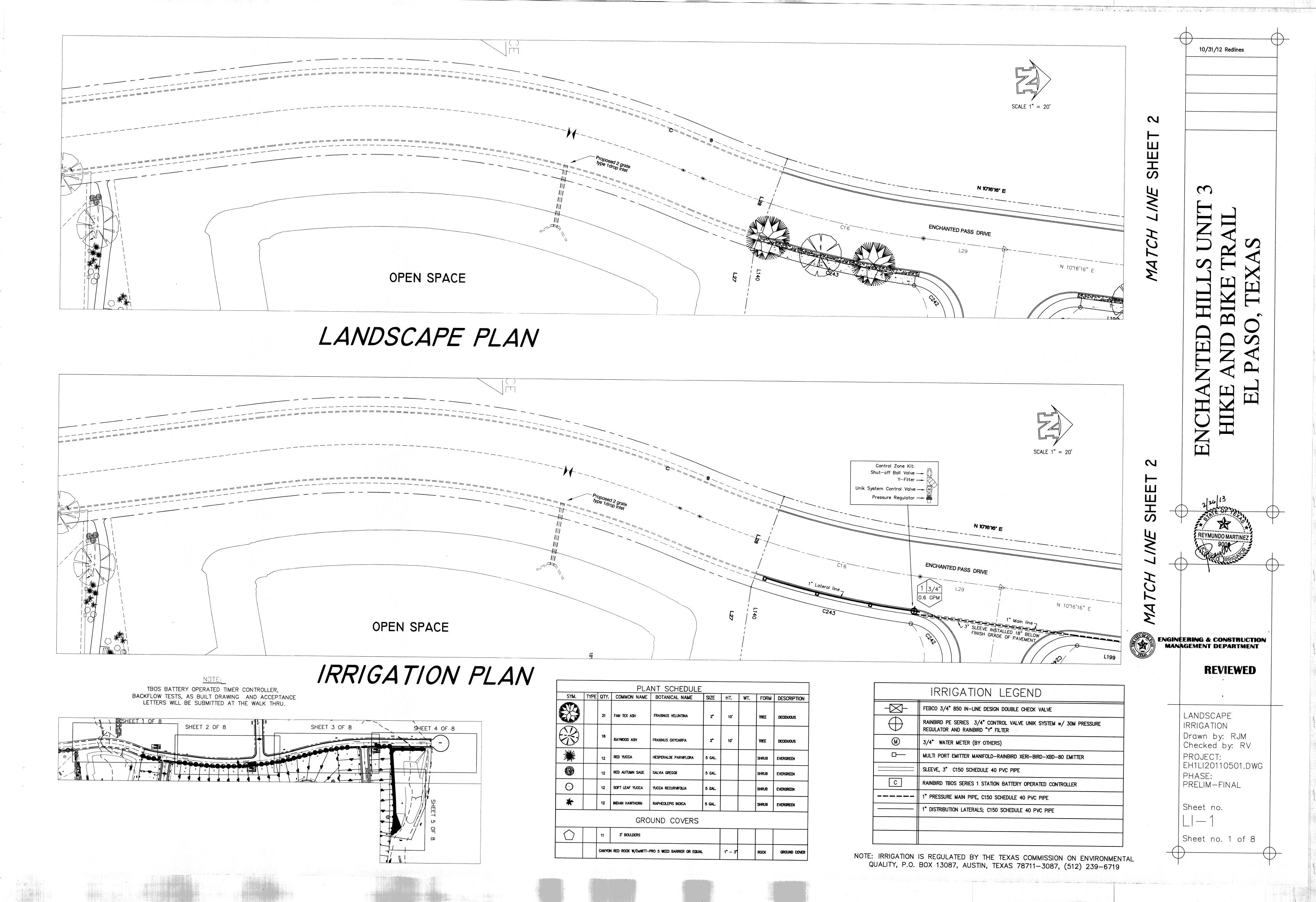
NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719

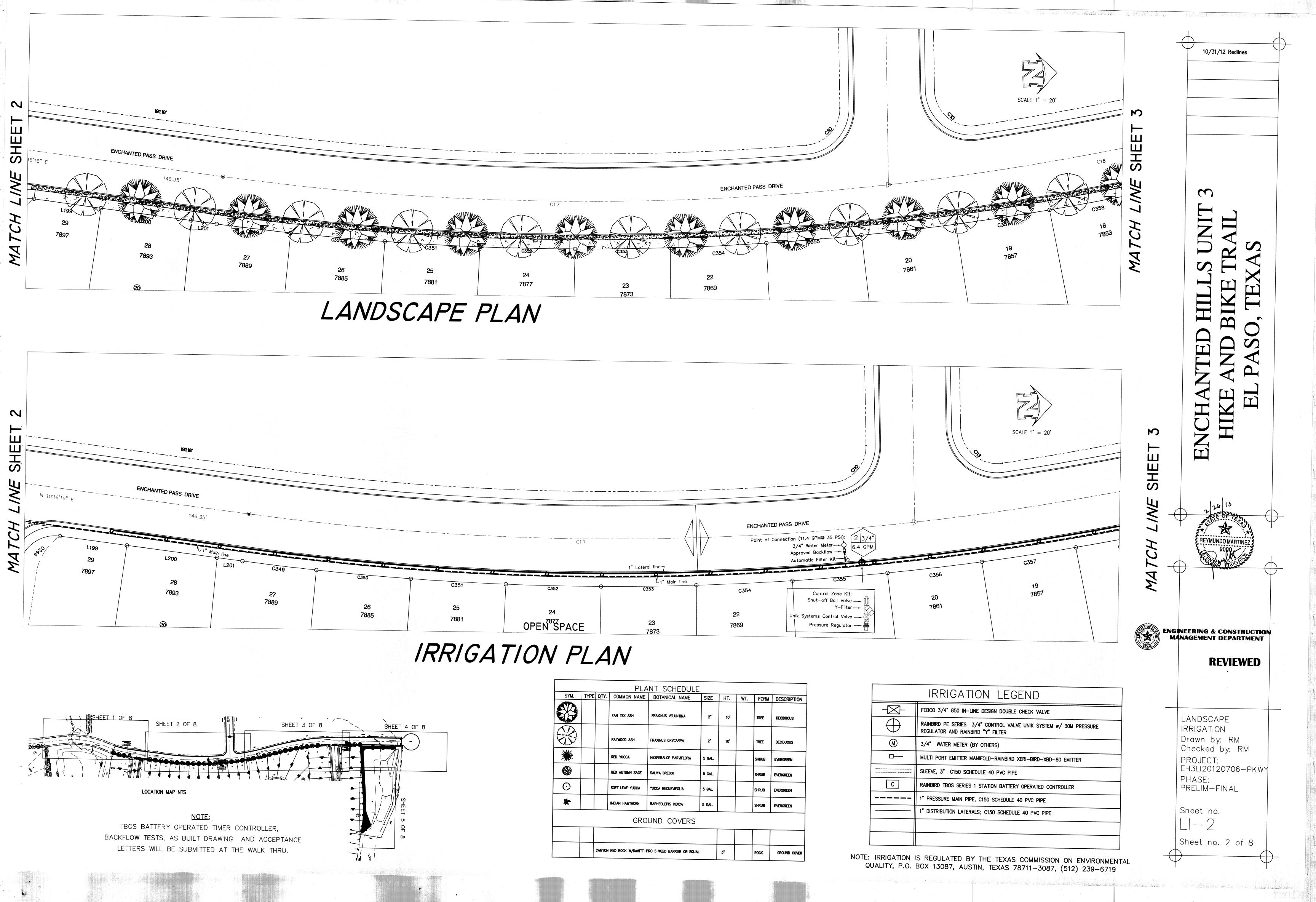
10/31/12 Redlines

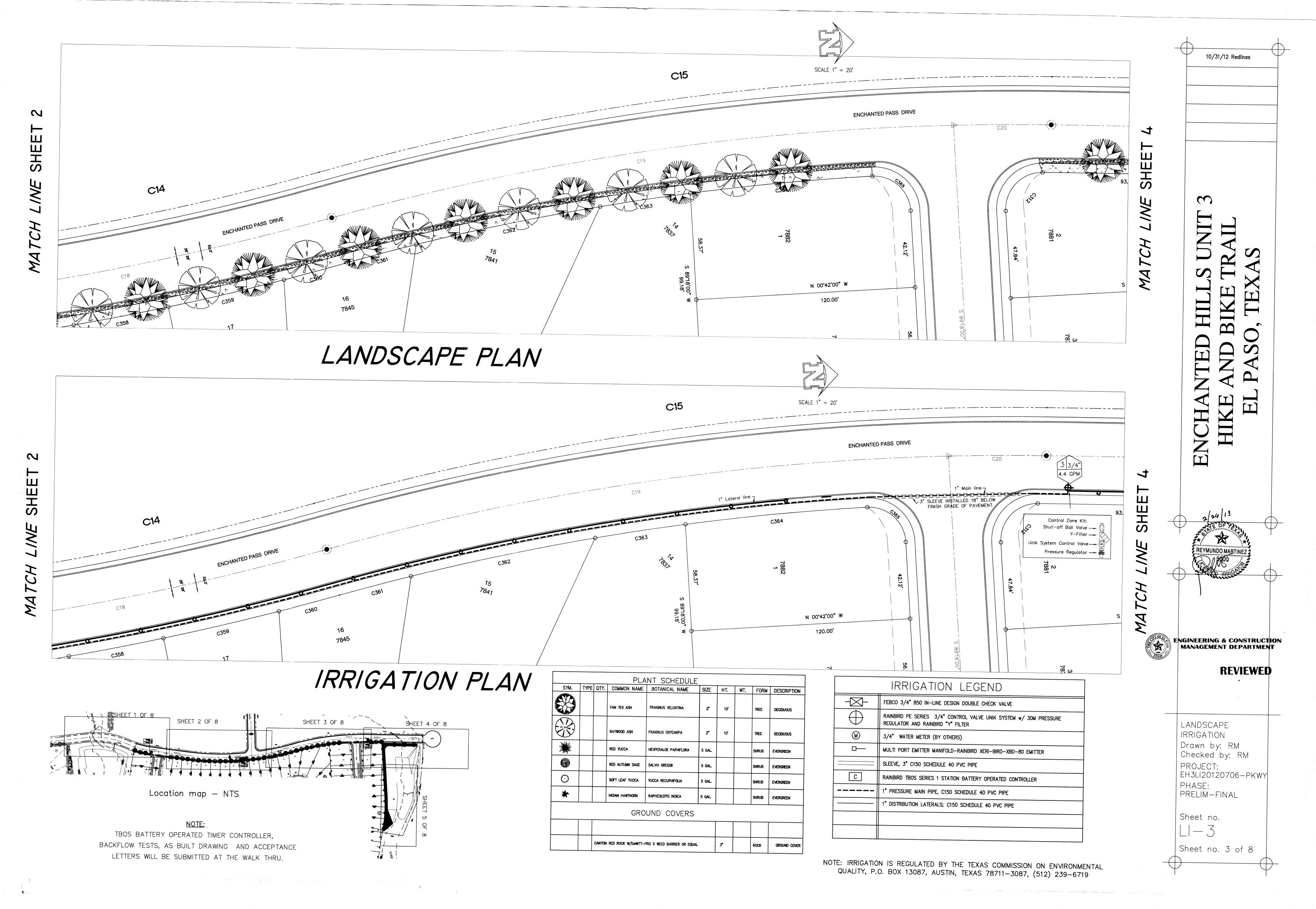
3

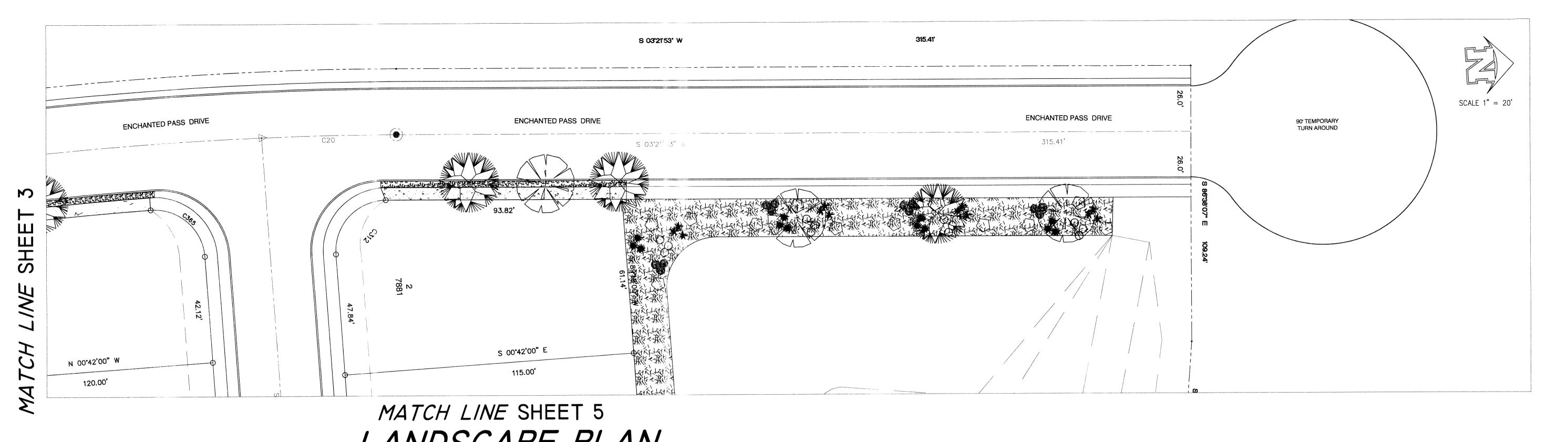
LI-3

Sheet no. 3 of 3

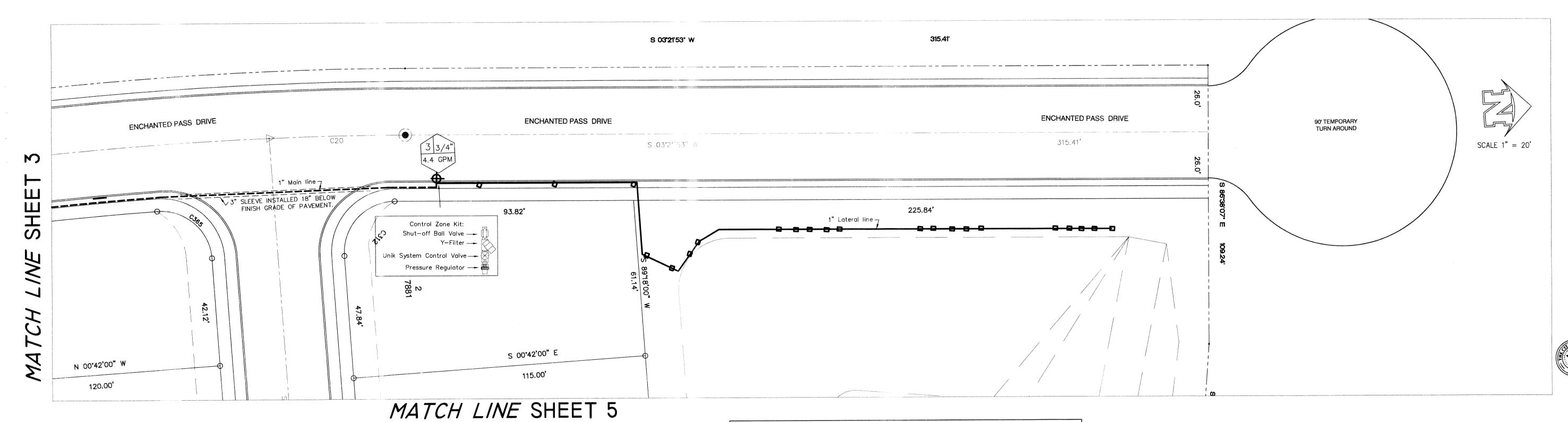




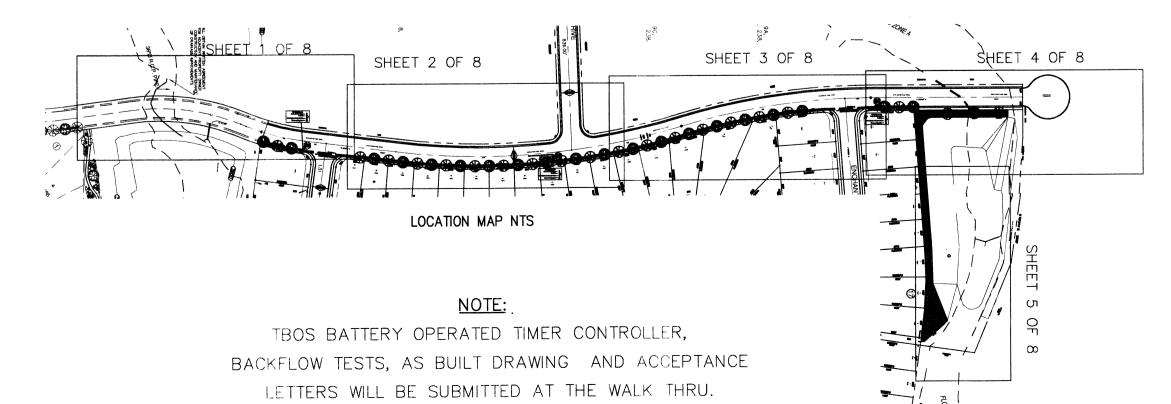




# LANDSCAPE PLAN



## IRRIGATION PLAN



SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTIO
		21	FAN TEX ASH	FRAXINUS VELUNTINA	2"	10'		TREE	DECIDUOUS
		18	RAYWOOD ASH	FRAXINUS OXYCARPA	2"	10'		TREE	DECIDUOUS
**		12	RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
		12	red autumn sage	SALVIA GREGGII	5 GAL			SHRUB	EVERGREEN
0		12	SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL.			SHRUB	EVERGREEN
*		12	INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL.			SHRUB	EVERGREEN
			GRO	OUND COVERS					
$\bigcirc$		11	3' BOULDERS						
		OANINO	N DED DOOK W/D-WITT	-PRO 5 WEED BARRIER OR EQUA		3"		ROCK	GROUND CO

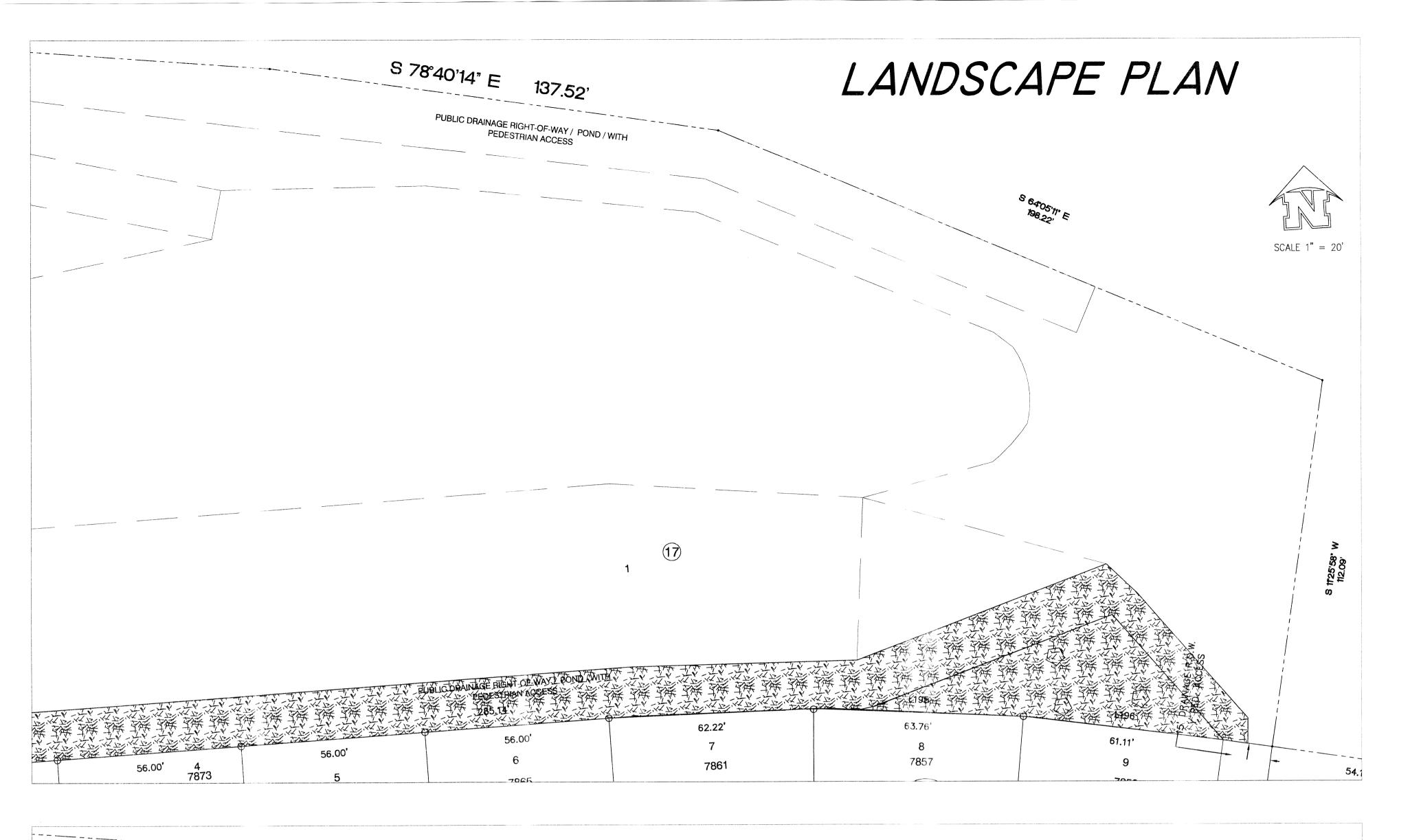
	IRRIGATION LEGEND
- >- -	FEBCO 3/4" 850 IN-LINE DESIGN DOUBLE CHECK VALVE
$\oplus$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER
M	3/4" WATER METER (BY OTHERS)
	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER
	SLEEVE, 3" C150 SCHEDULE 40 PVC PIPE
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER
	1" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE
	1" DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719

10/31/12 Redlines

ENGINEERING & CONSTRUCTION MANAGEMENT DEPARTMENT REVIEWED

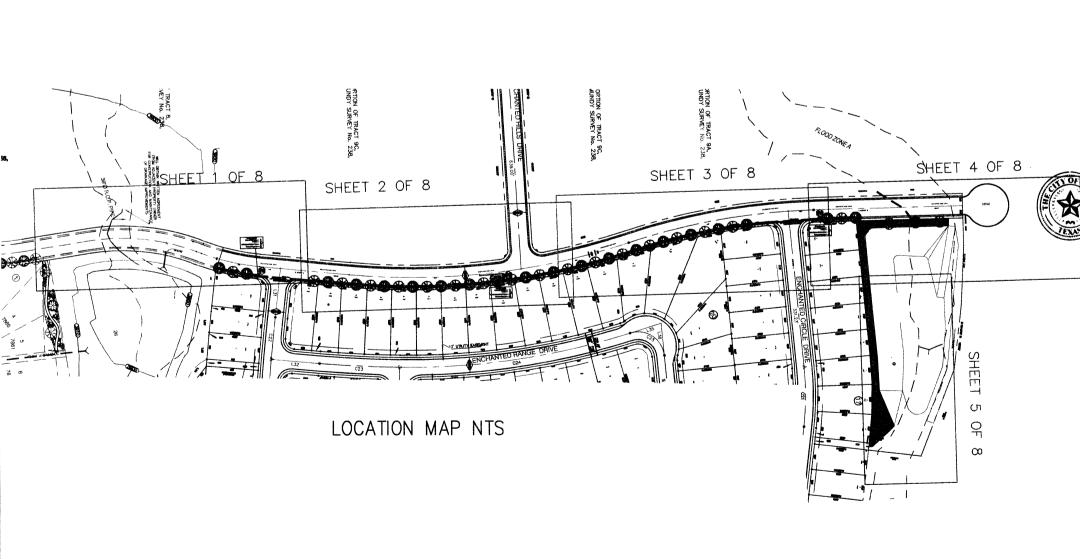
> LANDSCAPE IRRIGATION Drawn by: RM Checked by: RM PROJECT: EH3LI20120706-PKWY PHASE: PRELIM-FINAL Sheet no. Sheet no. 4 of 8



				NT SCHEDULE	T	Γ	Γ	T	
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	НТ.	WT.	FORM	DESCRIPTION
			FAN TEX ASH	FRAXINUS VELUNTINA	2"	10'		TREE	Deciduous
			RAYWOOD ASH	Fraxinus Oxycarpa	2"	10'		TREE	DECIDUOUS
**			RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
0			RED AUTUMN SAGE	SALVIA GREGGII	5 GAL.			SHRUB	EVERGREEN
0			SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL.			SHRUB	EVERGREEN
*			INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL.			SHRUB	EVERGREEN
			GRC	OUND COVERS			·		
Ver ages to the second		CANYO	N RED ROCK W/DeWITT-	PRO 5 WEED BARRIER OR EQUA	<u>.</u>	3"		ROCK	GROUND COVE

	IRRIGATION LEGEND
- >>	FEBCO 3/4" 850 IN-LINE DESIGN DOUBLE CHECK VALVE
$\oplus$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER
(M)	3/4" WATER METER (BY OTHERS)
	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER
**************************************	SLEEVE, 3" C150 SCHEDULE 40 PVC PIPE
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER
	1" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE
Management of the second secon	1" DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE

### 



### TBOS BATTERY OPERATED TIMER CONTROLLER, BACKFLOW TESTS, AS BUILT DRAWING AND ACCEPTANCE

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711—3087, (512) 239—6719

LETTERS WILL BE SUBMITTED AT THE WALK THRU.

# ENCHANTED HILLS UN HIKE AND BIKE TRAJ EL PASO, TEXAS

10/31/12 Redlines

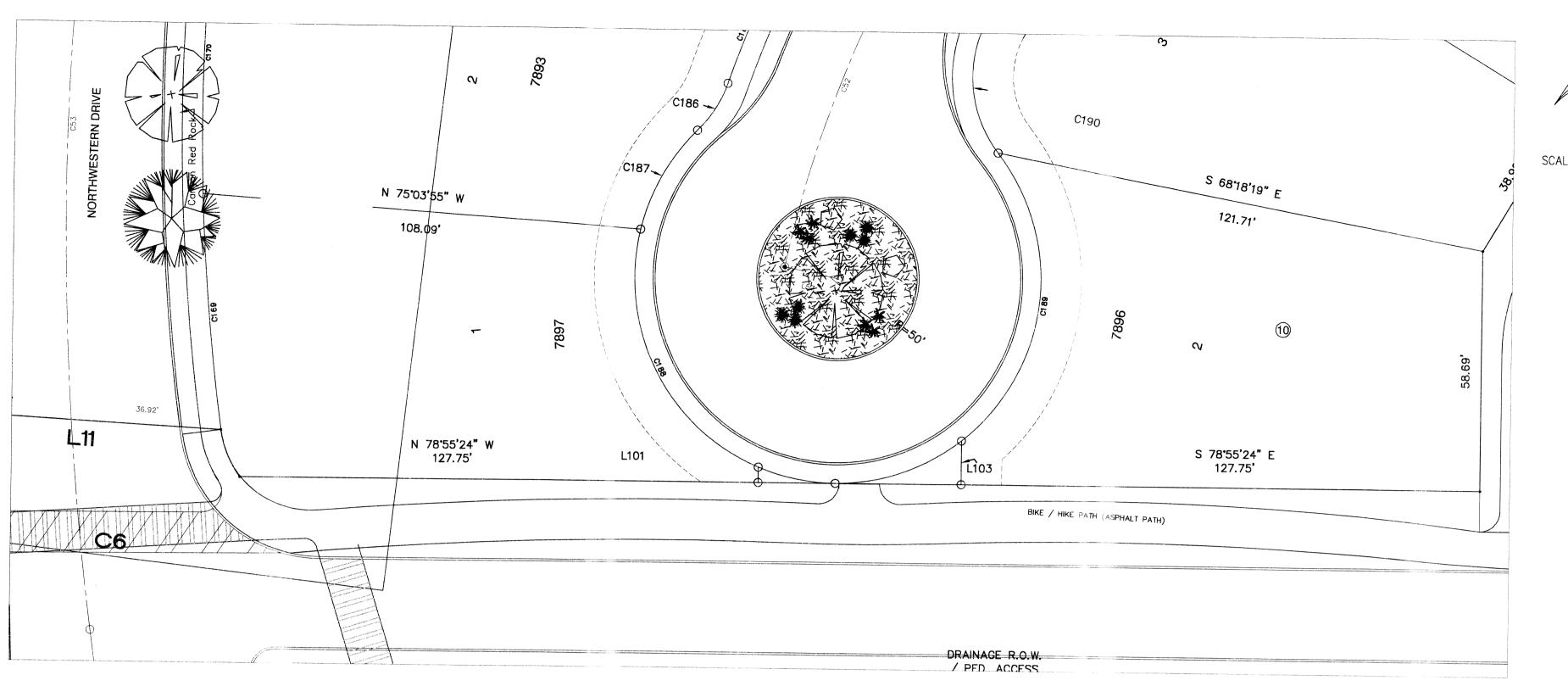
ENGINEERING & CONSTRUCTION MANAGEMENT DEPARTMENT

REVIEWED

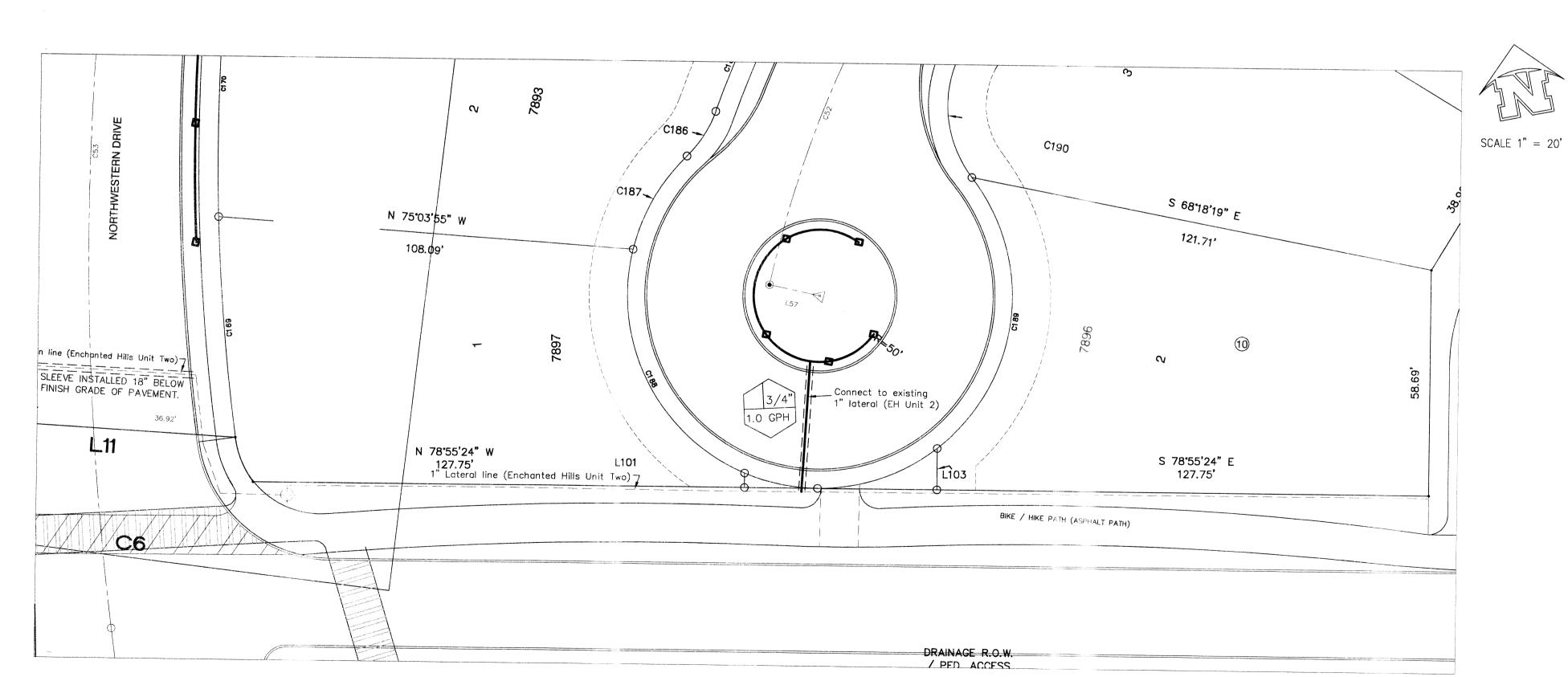
LANDSCAPE
IRRIGATION
Drawn by: RM
Checked by: RM
PROJECT:
EH3LI20120706-PKWY
PHASE:
PRELIM-FINAL

Sheet no.

Sheet no. 5 of 8



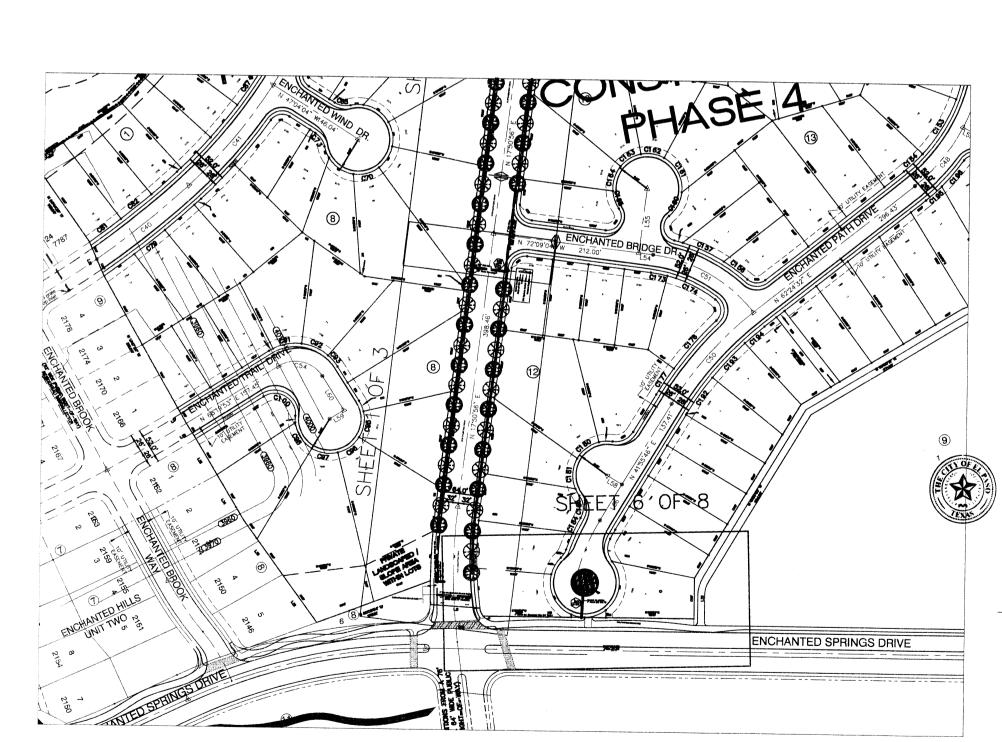




IRRIGATION PLAN

SYM.	TYPE	QTY.	COMMON NAME	NT SCHEDULE BOTANICAL NAME	7	T=	T	T ===::	T
WHILE.	1	Q11.	COMMON NAME	BUTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTION
			FAN TEX ASH	Fraxinus Veluntina	2*	10'		TREE	DECIDUOUS
			RAYWOOD ASH	FRAXINUS OXYCARPA	2"	10'		TREE	DECIDUOUS
**			RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
			red autumn sage	SALVIA GREGGII	5 GAL.			SHRUB	EVERGREEN
0			SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL			SHRUB	EVERGREEN
*			INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL			SHRUB	EVERGREEN
	T		GRO	UND COVERS					
		***************************************							
		CANYON	RED ROCK W/DeWITT-I	PRO 5 WEED BARRIER OR EQUAL	_	3"		ROCK	GROUND COVE

	IRRIGATION LEGEND
- >-	FEBCO 3/4" 850 IN-LINE DESIGN DOUBLE CHECK VALVE
$\oplus$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER
M	3/4" WATER METER (BY OTHERS)
· □	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER
	SLEEVE, 3" C150 SCHEDULE 40 PVC PIPE
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER
	1" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE
	1" DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE



LOCATION MAP NTS

NOTE:

TBOS BATTERY OPERATED TIMER CONTROLLER,

BACKFLOW TESTS, AS BUILT DRAWING AND ACCEPTANCE

LETTERS WILL BE SUBMITTED AT THE WALK THRU.

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719

10/31/12 Redlines

02/11/13 Redlines

02/22/13 Redlines

# ENCHANTED HILLS UNIT 3 HIKE AND BIKE TRAIL FI PAGO TEXAS

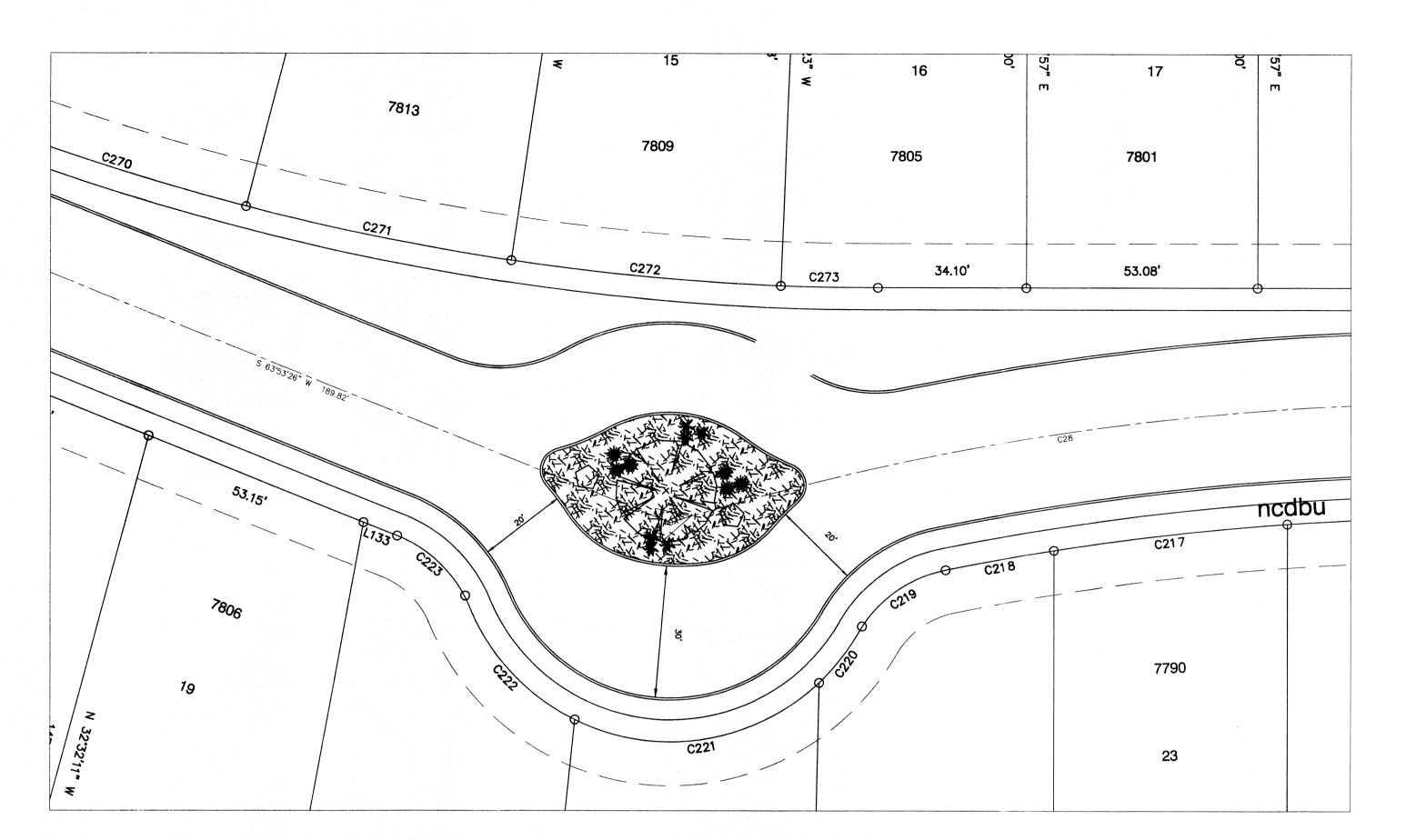


REVIEWED .

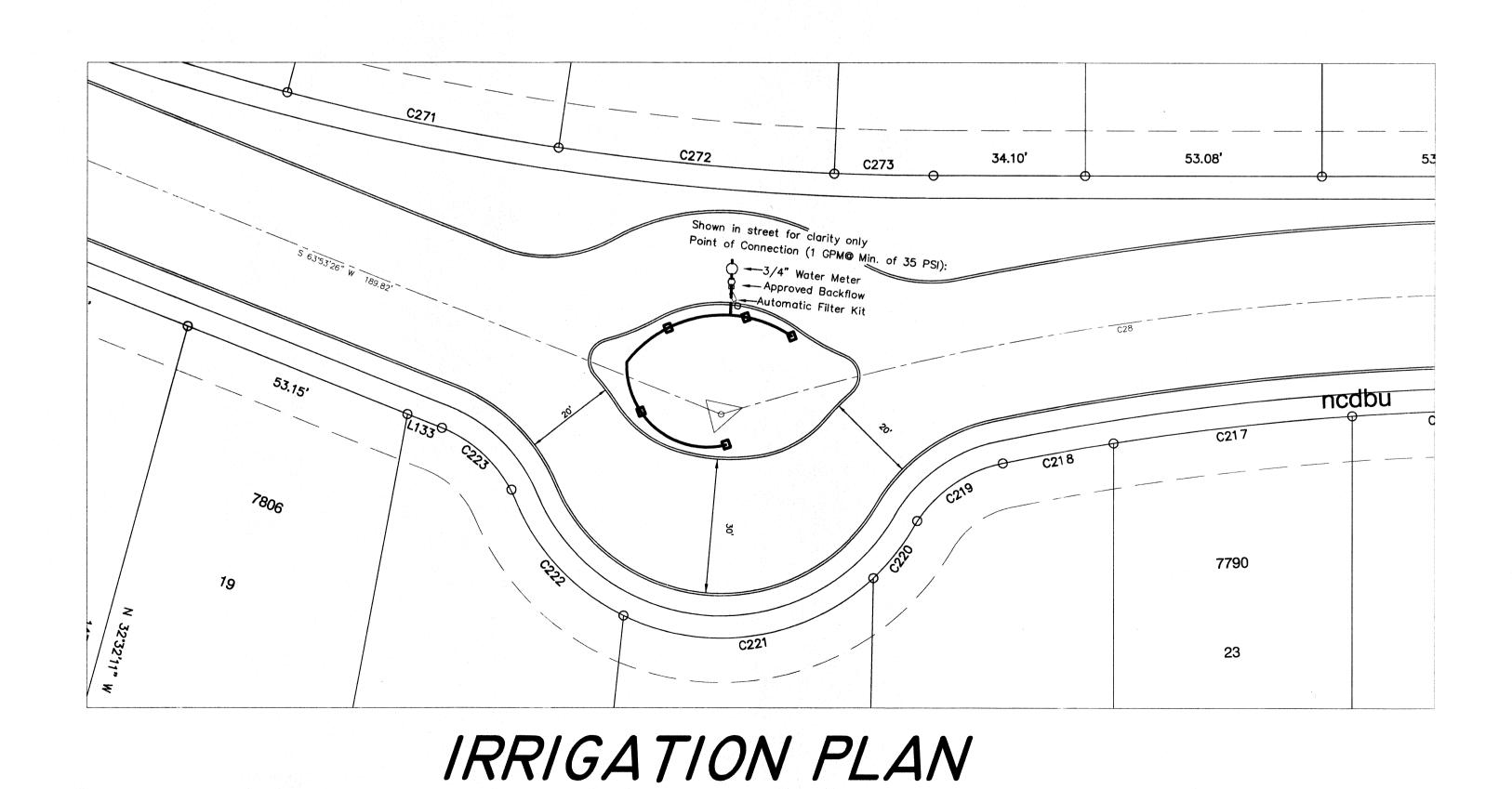
LANDSCAPE
IRRIGATION
Drawn by: RM
Checked by: RM
PROJECT:
EH3LI20120706-PKWY
PHASE:
PRELIM-FINAL

Sheet no.

Sheet no. 6 of 8



LANDSCAPE PLAN







	·		<del></del>	NT SCHEDULE	<del></del>		<del></del>		
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	нт.	WT.	FORM	DESCRIPTION
		· ·	FAN TEX ASH	Fraxinus Veluntina	2"	10'		TREE	DECIDUOUS
		1	RAYWOOD ASH	FRAXINUS OXYCARPA	2*	10°		TREE	DECIDUOUS
**		6	RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
			red autumn sage	SALVIA GREGGII	5 GAL			SHRUB	EVERGREEN
0			SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL.			SHRUB	EVERGREEN
*		6	INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL			SHRUB	EVERGREEN
			GRC	OUND COVERS					
y .									
ななな		CANYO	N RED ROCK W/DeWITT-	PRO 5 WEED BARRIER OR EQUA	V.	3"		ROCK	GROUND COVER

	IRRIGATION LEGEND
->>	FEBCO 3/4" 850 IN-LINE DESIGN DOUBLE CHECK VALVE
$\bigoplus$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER
M	3/4" WATER METER (BY OTHERS)
<u> </u>	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER
	SLEEVE, 3" C150 SCHEDULE 40 PVC PIPE
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER
	1" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE
	1" DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE
	# 1 에 가는 그는 그는 이 사람들이 되면 되었다. 그는 사람들이 되어 되는 사람들이 되었다. 그는 사람들이 다 되었다. 그는 사람들이 되었다.





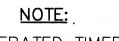


REVIEWED

LANDSCAPE IRRIGATION Drawn by: RJM Checked by: RV PROJECT: EH3LI20120706-PKWY PHASE: PRELIM—FINAL

Sheet no. 1\_1-7

Sheet no. 7 of 8

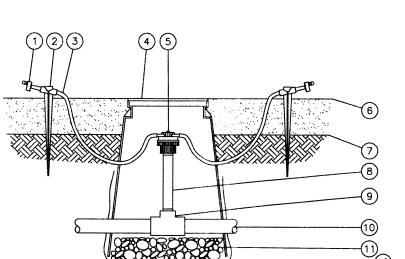


TBOS BATTERY OPERATED TIMER CONTROLLER, BACKFLOW TESTS, AS BUILT DRAWING AND ACCEPTANCE LETTERS WILL BE SUBMITTED AT THE WALK THRU.

NOTE: IRRIGATION IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, P.O. BOX 13087, AUSTIN, TEXAS 78711-3087, (512) 239-6719

			PLA	NT SCHEDULE					
SYM.	TYPE	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	HT.	WT.	FORM	DESCRIPTION
			FAN TEX ASH	FRAXINUS VELUNTINA	2"	10*		TREE	DECIDUOUS
			RAYWOOD ASH	FRAXINUS OXYCARPA	2"	10'		TREE	DECIDUOUS
*			RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.			SHRUB	EVERGREEN
			RED AUTUMN SAGE	SALVIA GREGGII	5 GAL.			SHRUB	EVERGREEN
$\odot$			SOFT LEAF YUCCA	YUCCA RECURVIFOLIA	5 GAL.			SHRUB	EVERGREEN
*			INDIAN HAWTHORN	RAPHEOLEPIS INDICA	5 GAL.			SHRUB	EVERGREEN
			GRC	OUND COVERS					
		PARK	BENCH		**************************************				THE RESERVE AND A SECURITION OF THE PERSON O
		CANYO	N RED ROCK W/DeWITT-	PRO 5 WEED BARRIER OR EQUA	L	3"		ROCK	GROUND COVER

	IRRIGATION LEGEND			
->-	FEBCO 850YA; MASTER SERIES IN LINE DESIGN DOUBLE CHECK VALVE			
$\bigcirc$	RAINBIRD PE SERIES 3/4" CONTROL VALVE UNIK SYSTEM w/ 30M PRESSURE REGULATOR AND RAINBIRD "Y" FILTER			
M	3/4" WATER METER (BY OTHERS)			
	MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER			
	SLEEVE, 2 1/2" C150 SCHEDULE 40 PVC PIPE			
С	RAINBIRD TBOS SERIES 1 STATION BATTERY OPERATED CONTROLLER			
	1 1/4" PRESSURE MAIN PIPE, C150 SCHEDULE 40 PVC PIPE			
	DISTRIBUTION LATERALS; C150 SCHEDULE 40 PVC PIPE (SIZE AS NOTED)			



1) SINGLE-OUTLET BARB INLET X BARB OUTLET EMITTER:
RAIN BIRD XERI-BUG OR PC MODULE EMITTER:
(1 OF 2 SHOWN, 6 POSSIBLE)
2) UNIVERSAL 1/4" TUBING STAKE:
RAIN BIRD TS-025 (1 OF 2 SHOWN, 6 POSSIBLE) (3)  $\chi$  DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED) (1 OF 2 SHOWN, 6 POSSIBLE)

(4) SUBTERRANEAN EMITTER BOX: CARSON 910 SERIES (TAN COLOR)
(5) SIX OUTLET MANIFOLD: RAIN BIRD EMT-6XERI FINISH GRADE

8 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9 PVC SCH 40 TEE OR ELL (10) PVC LATERAL PIPE

(11) 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL 12 WEED CLOTH-TAPED WITH 3M PLASTIC TAPE

NOTES:
1. SHOULD THE EMITTER BECOME DISLODGED UNREGULATED FLOW WILL OCCUR. 2. THE 6 OUTLET MANIFOLD PROVIDES A CENTRALIZED WATER DISTRIBUTION CONNECTION FOR UP TO 6 EMISSION DEVICES. THE FOLLOWING EMITTERS CAN BE INSERTED INTO THE 14" TUBING FROM THE EMT-6XERI:

RAIN BIRD XERI-BUG BARB X BARB EMITTERS: XB-05PC 0.5 GPH XB-10PC 1.0 GPH XB-20PC 2.0 GPH RAIN BIRD PC MODULE BARB X BARB EMITTERS: PC-10 10 GPH PC-24 24 GPH

MULTI PORT EMITTER MANIFOLD-RAINBIRD XERI-BIRD-XBD-80 EMITTER

#### TREES, SHRUBS AND GROUND COVERS

- 2. The contractor shall coordinate the construction activities with Parks department.
- 3. Identify field changes of tress, plants and shrubs on final asbuilt drawing.

5 x ROOT BALL DIA.

TREE PLANTING DETAIL

3" BARK MULCH, 5' DIA .-

TABLETS. 5 GAL=3, 15 GAL=5, 24" BOX=8

FLUSH WITH NATIVE GROUND

FIN. GR. -

NOTE: SET ROOT BALL

- 4. A complete list of plants, including sizes, quantity, and other requirements to be shown on drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- 5. The irrigation system will be installed prior to planting. Locate and maintain the irrigation system during planting operations.

PROPERLY REMOVE ALL

WIRE & BURLAP AROUND ROOT BALL ONCE TREE

HAS BEEN SET IN PLACE. ROOT BALL IS NOT TO BE DISTURBED.

BACKFILL MIX:
1 PART ORGANIC
MATERIAL
2 PART NATIVE

UNDISTURBED ----NATIVE SOIL

1/4" CAPILLARY TUBING-

NOTE: DRIP EMITTER- RAINBIRD XBT-20-6, 6 OUTLET EMITTER, 2GPH, WITH CAPILLARY TUBING, E.O.C.V. & TUBING STAKE. INSTALL 2 EMITTERS PER SHRUB AND 6 PER TREE AND ENCLOSE IN ACCESS SLEEVE

EMITTER OUTLET PLACEMENT DETAIL

NOTE: SET ROOT BALL

GROUND

FLUSH WITH NATIVE

VALVE NUMBER ---

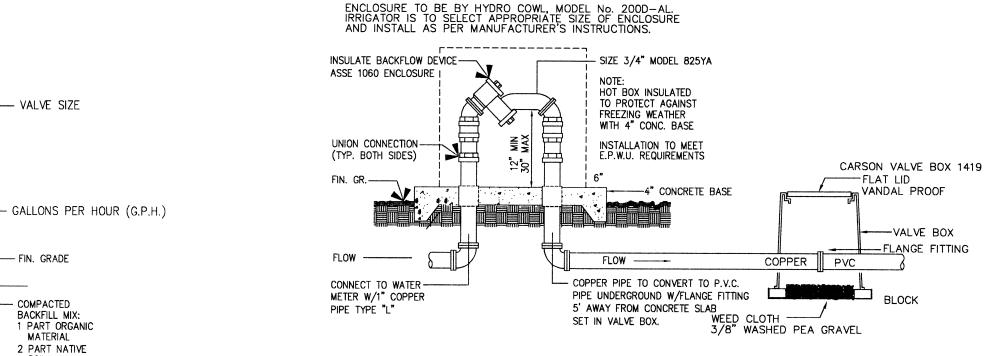
5 x ROOT BALL DIA.

SHRUB PLANTING DETAIL

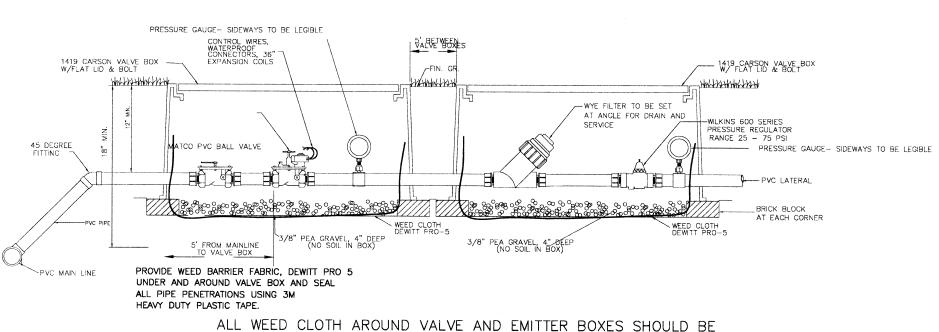
- Repair irrigation system components, damaged during planting operation, at Contractor's expense.
  1. Provide plant materials record drawings
  6. Warranty plant material to remain alive and be in healthy, vigorous condition for a period of 1 year after acceptance. 7. Warranty shall not include damage or loss of trees, plants, or ground covers caused by fires, floods, freezing, rains, lightning storms, or winds over 75 miles per hour, winter kill caused by extreme cold and sever winter conditions
- not typical of planting area; acts of vandalism or negliegence on the part of the Owner.

#### IRRIGATION NOTES:

- 1. Irrigation system layout is diagrammatic. Exact locations of piping, sprinkler heads, valves, and
- components shall be established by Contractor in the field at time of installation.
- 2. Minor adjustments in system layout will be permitted to clear existing fixed obstructions.
- Final system layout shall be acceptable to Parks & Recreation Department.
- 3. Backflow prevent devices shall be reduced pressure device manufactured by FEBCO or equivalent. Remote control valves shall be manufactured by Rain Bird for 1.25" or smaller.
- 4. Valve boxes shall be model 1419 heavy duty, with flat lid and secured by tamper proof bolt as manufactured by Carson. Valve box and lids must be sized accordingly.
- 5. All pipe assembly fittings must be schedule 40 PVC pipe fittings.
- 6. Copper tubing for feed from the water meter shall be used on all installations from meter past BFP.



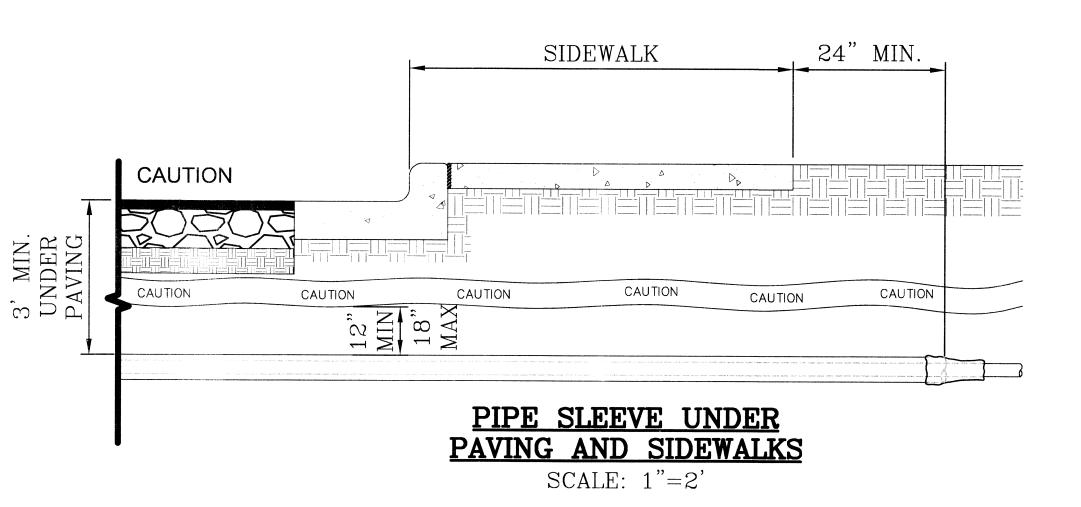
BACKFLOW DEVICE DETAIL



ALL WEED CLOTH AROUND VALVE AND EMITTER BOXES SHOULD BE TAPED AND SEALED AROUND PENETRATIONS TO PREVENT SOILS FROM ERODING INTO BOXES.

#### ELECTRIC CONTROL VALVE W/ FILTER & PRESSURE REGULATOR DETAIL

NOTE: Lateral lines for irrigation valves to have union valves on both intake and discharge sides of the valve for lines smaller than three (3") inches. Flanges to be used on lines larger than three (3") inches. Insure the valve fittings are accommodated within the 1419 Carson valve box.



TBOS BATTERY OPERATED TIMER CONTROLLER. BACKFLOW TESTS, AS BUILT DRAWING AND ACCEPTANCE LETTERS WILL BE SUBMITTED AT THE WALK THRU.

# 3

10/31/12 Redlines

02/26/13 Comments



**ENGINEERING & CONSTRUCTION** MANAGEMENT DEPARTMENT

REVIEWED

LANDSCAPE IRRIGATION Drawn by: RJM Checked by: RV PROJECT: EH1LI20110501.DWG PHASE: PRELIM-FINAL Sheet no.

Sheet no. 8 of 8

LINE TABLE LINE	TABLE	CURVE TABLE		CURVE TABLE	CURVE TABLE
L1 S 77*32'49" E 57.36' L137 N 63'	EARING LENGTH 153'26" E 19.09'	CURVE         RADIUS         LENGTH         TANGENT         CHORD         BEARING           C1         50.00         60.85'         34.84'         57.16'         N 72'32'43'         E	DELTA 69'43'50"	CURVE         RADIUS         LENGTH TANGENT         CHORD         BEARING         DELTA           C132         65.00         45.15'         23.53'         44.25'         S 20'21'40"         W 39'48'01"	CURVE         RADIUS         LENGTH         TANGENT         CHORD         BEARING         DELTA           C263         4419.04         42.14         21.08'         42.14'         N 84'53'44"         W 0'32'47"
L3 S 69'51'37" E 118.05' L139 S 78'	*52'35" E 10.05' *52'35" E 46.77' *40'15" W 73.80'	C3 532.16 219.47' 111.32' 217.91' N 63'13'10 E C4 368.86 216.22' 111.32' 213.14' N 34'36'41 E C5 20.00 31.41' 19.99' 28.28' N 62'50'01 E	23'37'46" 33'35'11" 89'58'10"	C133 65.00 40.41' 20.88' 39.76' S 58'04'21" W 35'37'21" C134 65.00 44.14' 22.96' 43.30' N 84'39'44" W 38'54'28" C135 65.00 7.75' 3.88' 7.74' N 61'47'36" W 6'49'48"	C264     581.05     11.96     5.98'     11.96'     N 85'45'32" W     1'10'47"       C265     581.05     63.96     32.01'     63.92'     N 89'30'07" W     618'24"       C266     581.05     62.18     31.12'     62.15'     S 84'16'45" W     6'07'52"
L5 S 57*36'26" E 136.50' L141 N 78"	'40'15" W 11.41'	C6 25.00 12.61 6.44 12.48 S 11'20'31 E C7 992.93 34.49 17.25 34.48 S 10'25'59 W	28*54'09" 1*59'24"	C136 20.00 7.19' 3.64' 7.16' N 68'41'01' W 20'36'39" C137 20.00 2.22' 1.11' 2.22' N 82'10'31" W 6'22'19"	C267 581.05 62.18 31.12' 62.15' S 78'08'53" W 6'07'52" C268 581.05 62.18 31.12' 62.15' S 72'01'01" W 6'07'52"
L7 N 17'49'06" E 69.99' L143 N 79' L8 S 72'09'04" E 64.00' L144 N 80'	12'45" W 5.80' 10'09" W 51.00'	C8 449.00 79.98' 40.10' 79.87' N 15'22'27 E C9 1445.02 378.46' 190.32' 377.37' N 02'46'05 E	10'12'22" 15'00'21"	C138 20.00 5.07 2.55' 5.05' \$ 87'22'51" W 14'30'58" C139 65.00 42.22' 21.88' 41.48' N 81'16'10" W 37'12'56"	C269     581.05     62.18     31.12'     62.15'     S 65'53'09" W     6'07'52"       C270     581.05     62.18     31.12'     62.15'     S 59'45'17" W     6'07'52"
L10 S 11°04'36" W 58.69' L146 S 09°	'10'09" W 15.00' '49'51" W 109.72'   '49'51" E 109.74'	C10 20.00 29.25' 17.94' 26.71' N 46'37'58 W C11 30.00 46.14' 29.03' 41.72' S 47'24'46 W C12 30.00 48.11' 31.00' 43.12' S 42'35'14 E	83*37'58" 88*06'46" 91*53'14"	C140 65.00 40.41' 20.88' 39.76' N 44'51'01" W 35'37'22"  C141 65.00 43.96' 22.86' 43.13' N 07'39'49" W 38'45'03"  C142 65.00 14.19' 7.12' 14.16' N 17'57'55" E 12'30'23"	C271     581.05     62.18     31.12'     62.15'     \$ 53*37'25"     \$ 6'07'52"       C272     581.05     62.18     31.12'     62.15'     \$ 47*29'33"     \$ 6'07'52"       C273     581.05     22.24     11.12'     22.24'     \$ 43*19'50"     \$ 211'34"
L12 N 2516'56" W 83.39' L148 N 46'	*50'49" W 39.05'	C13 20.00 34.89 23.81 30.63 N 41'29'56 E C14 1445.02 116.62' 58.34' 116.58' N 10'47'01 W	99 <b>*</b> 56'27" 4 <b>*</b> 37'26"	C143 20.00 7.29' 3.69' 7.25' N 13'46'28' E 20'53'17" C144 30.00 43.10' 26.23' 39.49' S 37'49'46" E 82'19'10"	C274 2485.01 24.00 12.00' 24.00' S 42'30'39" W 0'33'12" C275 2485.01 51.32 25.66' 51.32' S 43'22'45" W 1'11'00"
L14 N 19'58'46" W 76.61' L150 N 75' L15 N 19'58'46" W 60.52' L151 N 81'	*22'19" W 47.94' *06'23" W 7.23'	C15 1414.49 406.36' 204.59' 404.97' S 04'51'55 E C16 475.00 85.82' 43.02' 85.70' N 15'26'48 E	16'27'37" 10'21'05"	C145 30.00 43.54' 26.62' 39.82' S 59'25'48" W 83'09'43" C146 285.47 50.51' 25.32' 50.44' N 08'23'55" E 10'08'13"	C276     2485.01     51.32     25.66'     51.32'     \$ 44'33'45"     \$ 1'11'00"       C277     2485.01     36.70     18.35'     36.69'     \$ 45'34'38"     \$ 0'50'46"       C278     20.00     30.53'     19.13'     27.65'     \$ 02'16'01"     \$ 87'27'59"
L17 N 18*55'11" W 26.03' L153 S 09*	*52'35" W 58.19' *58'02" W 36.89' *58'02" W 19.36'	C17     1471.02     426.60'     214.81'     425.11'     N 01'57'47     E       C18     1471.02     173.21'     86.76'     173.21'     N 09'43'13     W       C19     1388.49     345.33'     173.56'     344.44'     S 05'58'14'     E	16'36'58" 3'45'02" 14'15'00"	C147         233.47         23.56'         11.79'         23.55'         S 06'12'08" W         5'46'53"           C148         233.47         87.36'         44.20'         86.86'         S 19'48'47" W         21'26'24"           C149         285.47         53.66'         26.91'         53.59'         N 18'51'09" E         10'46'14"	C278         20.00         30.53         19.13'         27.65'         S 02'16'01" W         87'27'59"           C279         20.00         31.57         20.15'         28.39'         N 86'40'49" W         90'25'43"           C280         2485.01         37.48'         18.74'         37.48'         S 48'32'15" W         0'51'51"
L19 N 32'55'30" W 100.62' L155 S 38' L20 S 79'40'12" W 60.47' L156 S 51'	*27'58" E 22.88' *32'02" W 23.11'	C20         1388.49         53.56'         26.79'         53.56'         S 02'15'35'         W           C21         600.00         127.06'         63.77'         126.82'         N 84'38'01         W	2*12'37" 12*07'58"	C150 285.47 25.67 12.84 25.66 N 2648'49" E 5'09'06" C151 20.00 32.15 20.75 28.80 N 16'39'37" W 92'05'59"	C281     2485.01     53.01     26.51'     53.01'     S 49'34'50" W     1'13'20"       C282     2485.01     58.21     29.11'     58.21'     S 50'51'46" W     1'20'32"
L22 N 84'43'56" W 55.33' L158 N 17'	*09'04" W 4.26' *49'06" E 17.99' *32'02" W 110.63'	C22     4445.04     89.70'     44.85'     89.70'     \$ 79'27'16'     E       C23     2367.23     170.33'     85.20'     170.29'     N 07'54'22'     E       C24     1531.85     495.07'     249.71'     492.92'     N 03'24'50'     W	1*09'22" 4*07'21" 18*31'02"	C152	C283     20.00     31.42     20.00'     28.28'     \$ 06*32'02"     W 90*00'00"       C284     30.00     6.72     3.37'     6.70'     \$ 44*52'56"     E 12*49'56"       C285     50.00     26.28     13.45'     25.98'     \$ 36*14'34"     E 30*06'39"
L24 N 46'50'49" W 39.05' L160 N 41'	27'58" W 63.26'	C25 56.00 99.67 69.12 87.02 S 381849 W C26 4445.04 398.48 199.37 398.35 S 823603 E	101°58'20" 5°08'11"	C155 20.00 27.95 16.80 25.73 N 77'33'42" W 80'03'32" C156 246.46 42.96 21.53 42.90 N 42'31'31" W 9'59'10"	C286 50.00 86.3 58.52' 76.03' N 23'06'08" W 98'58'27" C287 30.00 33.96 19.06' 32.17' N 06'02'26" W 64'51'03"
L27 N 78*40'15" W 85.20' L163 N 36'	*27'58" E   110.97'   *46'17" W   11.12'   *46'17" W   42.29'	C27 607.05 327.86' 168.03' 323.89' N 79'21'31 E C28 630.40 185.92' 93.64' 185.25' S 33'47'06' W C29 2459.01 205.62' 102.87' 205.56' S 44'37'47' W	30*56'40" 16*53'54" 4*47'28"	C157     246.46     65.62'     33.00'     65.42'     N 55'08'43"     W 15'15'14"       C158     246.46     12.71'     6.36'     12.71'     N 64'15'00"     W 2'57'21"       C159     20.00     44.43'     40.37'     35.84'     N 02'04'48"     W 127'17'46"	C288     50.00     51.3     28.21'     49.14'     \$ 0814'47"     \$ 58'52'03"       C289     20.00     28.74       C290     467.97     193.6     98.21'     192.22'     \$ 71'03'12"     \$ 23'42'14"
L29 N 10°16'16" E 44.83' L165 N 41°	*27'58" W 16.56' *27'58" W 36.67'	C30 334.92 317.06 171.54 305.35 N 69'21'15 E C31 589.14 54.21 27.12 54.19 S 43'49'40 E	54'14'23" 5'16'19"	C160 50.00 39.67 20.95 38.64 N 38'50'12" E 45'27'46" C161 50.00 58.28 32.96 55.03 N 17'17'08" W 66'46'53"	C291         467.97         203.7         103.50'         202.12'         N 84'37'22"         W 24'56'37"           C292         20.00         31.42         20.00'         28.28'         S 62'50'56"         W 90'00'00"
L32 N 09'58'02" E 102.49' L168 N 41'	'31'13" W 23.28' '31'13" W 30.88'	C32 589.14 293.28' 149.75' 290.26' S 26'55'49" E C33 589.14 207.47' 104.82' 206.40' S 02'34'49" E C34 939.22 44.13' 22.07' 44.12' N 77'13'17' W	28*31'23" 20*10'38" 2*41'31"	C162       50.00       34.74'       18.10'       34.04'       N 70'34'46"       W 39'48'24"         C163       50.00       34.74'       18.10'       34.04'       S 69'36'51"       W 39'48'23"         C164       50.00       37.57'       19.72'       36.70'       S 28'11'00"       W 43'03'19"	C293     20.00     31.45     20.01'     28.29'     S 27'09'59" E     90'01'50"       C294     965.22     9.40     4.70'     9.40'     N 41'44'42" W     0'33'28"       C295     965.22     52.15     56.08'     52.14'     N 43'34'18" W     3'05'44"
L34 N 07'30' E 57.88' L170 N 43'	*34'18" W 27.64' *34'18" W 30.71' *40'03" W 41.77'	C35 939.22 564.05' 290.82' 555.61' N 58'40'15 W C36 375.00 383.72' 210.56' 367.20' S 17'08'58 E	34*24'33" 58*37'43"	C166 20.00 46.03' 44.77' 36.52' S 41'55'20" W 131'51'13"	C296     965.22     52.15     26.08'     52.14'     N 46'40'02" W     3'05'45"       C297     965.22     52.15     26.08'     52.14'     N 49'45'47" W     3'05'44"
L36 N 89'18'00" E 69.12' L172 N 46' L37 S 46'27'50" E 54.74' L173 N 49'	'40'03" W 46.19' '45'45" W 58.36'	C37 56.00 86.69' 54.74' 78.29' N 02'06'53 W C38 2459.01 193.50' 96.80' 193.45' S 49'16'47 W	88'41'53" 4'30'31"	C167 20.00 31.42' 20.00' 28.28' N 27'09'04" W 90'00'00" C168 25.00 12.61' 6.44' 12.48' N 11'20'31" W 28'54'09"	C298 965.22 52.15 26.08' 52.14' N 52'51'31" W 3'05'44" C299 965.22 52.15 26.08' 52.14' N 55'57'15" W 3'05'44"
L39 N 51'32'02" E 50.00' L175 S 57'	'58'49" W 38.95' ''36'26" E 19.66' ''58'49" E 38.95'	C39 441.97 415.29' 224.40' 400.18' S 80'55'49' W C40 1344.03 170.46' 85.35' 170.35' N 61'51'45' E C41 708.80 189.24' 95.18' 188.67' N 50'34'51' E	53*50'14" 7*16'00" 15*17'49"	C169   553.16   57.51'   28.78'   57.49'   N 06'05'16" E   5'57'25"   C170   553.16   68.70'   34.40'   68.66'   N 12'37'27" E   7'06'58"   C171   553.16   16.18'   8.09'   16.17'   N 17'01'12" E   1'40'32"	C300 965.22 52.15 26.08' 52.14' N 59'02'59" W 3'05'44"  C301 965.22 52.15 26.08' 52.14' N 62'08'43" W 3'05'44"  C302 965.22 52.15 26.08' 52.14' N 65'14'27" W 3'05'44"
L41 S 72'09'04" E 56.26' L177 S 49' L42 N 17'50'56" E 45.97' L178 S 46'	'45'45" E 58.36' '40'03" E 58.36'	C42 708.80 106.40' 53.30' 106.30' N 38'37'55 E C43 732.13 210.61' 106.04' 209.89' S 63'54'35 E	8*36'04" 16*28'56"	C172 20.00 31.42 20.00 28.28 N 62'50'56" E 90'00'00" C173 194.46 24.41 12.22 24.39 S 68'33'20" E 7'11'28"	C303 965.22 52.15 26.08' 52.14' N 68'20'11" W 3'05'45" 26.08' 52.14' N 71'25'56" W 3'05'44"
L44 N 72°09'04" W 32.00' L180 S 41	5'34'18" E 58.35' *31'13" E 54.16' *27'58" E 53.23'	C44     1302.15     126.67'     63.38'     126.62'     S 74'56'16'     E       C45     56.00     81.28'     49.69'     74.33'     S 59'25'48'     W       C46     56.00     80.46'     48.95'     73.71'     N 37'49'46'     W	5'34'25" 83'09'43" 82'19'10"	C174     194.46     77.75'     39.40'     77.23'     \$ 53'30'20"     E     22'54'32"       C175     20.00     34.57'     23.44'     30.43'     \$ 07'28'17"     W     99'02'42"       C176     526.00     92.99'     46.62'     92.87'     \$ 51'55'45"     W     10'07'44"	C305 965.22 52.15 26.08' 52.14' N 74'31'40" W 3'05'44" 20.99' 41.97' S 77'19'17" E 2'29'30" 21.63' 43.24' N 88'43'16" W 3'57'29"
L46 S 77'43'28" E 43.25' L182 S 36	3.46'17" E 53.41' 18'00" W 11.04'	C47 259.47 158.01 81.54 155.58 N 20'46'34 E C48 259.47 109.53' 55.59' 108.72' N 50'18'56 E	34*53'31" 24*11'12"	C177 526.00 45.31 22.67 45.30 S 44'23'49" W 4'56'08" C178 30.00 35.19 19.93 33.20 S 75'31'47" W 67'12'03"	C308 626.00 53.8b 26.96' 53.86' N 84'16'35" W 4'55'52" C309 626.00 35.44 17.72' 35.43' N 80'11'20" W 3'14'37"
L49 N 78'59'21" W 49.69' L185 N 78'	'34'02" W 19.17' '34'02" W 15.00'	C49         150.00         91.35'         47.14'         89.94'         S 69'13'26         E           C50         500.00         178.72'         90.32'         177.77'         S 52'10'09         W           C51         220.46         171.45'         90.33'         167.17'         N 49'52'16         W	34°53'31" 20°28'46" 44°33'36"	C179         50.00         19.86'         10.06'         19.73'         N 82'14'50"         W 22'45'18"           C180         50.00         40.44'         21.40'         39.35'         S 63'12'15"         W 46'20'32"           C181         50.00         45.99'         24.76'         44.38'         S 13'41'02"         W 52'41'54"	C310 574.00 36.1b 18.10' 36.17' S 88'53'40" E 3'36'40" C311 574.00 85.3 42.76' 85.29' S 82'49'41" E 8'31'18" C312 20.00 32.8 21.47' 29.27' N 43'40'03" W 94'03'53"
L51 N 78'59'21" W 48.95' L187 N 89	134'02" E 10.38' 118'00" E 19.82' 134'02" E 28.53'	C52 282.78 94.13' 47.51' 93.70' S 32'23'34 W C53 773.05 143.89' 72.15' 143.68' S 12'31'00' W	19'04'22" 10'39'52"	C182 50.00 11.17' 5.61' 11.15' S 19'03'51" E 12'47'53" C183 30.00 34.14' 19.19' 32.33' S 07'08'21" W 65'12'18"	C313 20.00 30.00 18.67' 27.30' S 35'31'46" E 86'04'32" C314 20.00 32.79 21.42' 29.24' N 54'28'14" E 93'55'28"
L54 N 72°09'04" W 20.78' L192 S 07°	"30'30" E 8.61' "30'30" W 14.93'	C54 46.00 72.26' 46.00' 65.05' N 66'40'07 W C55 992.93 71.27' 35.65' 71.25' S 13'29'03 W	90'00'00"	C184 308.78 23.99' 12.00' 23.99' S 37'30'57" W 4'27'07" C185 308.78 26.26' 13.14' 26.25' S 32'51'14" W 4'52'18" C186 30.00 13.77' 7.01' 13.65' S 43'34'13" W 26'18'17"	C315 20.00 29.50 18.17' 26.90' S 36'18'18" E 84'31'28"  C316 20.00 36.25 25.53' 31.49' N 55'29'31" E 103'51'26"  C317 913.22 110.55 55.36' 110.52' S 69'06'37" E 6'56'18"
L56 N 41.55'46" E 60.92' L194 N 78	*27'50" W 31.02' *34'02" W 15.00' *16'35" W 63.76'	C56         992.93         40.03'         20.02'         40.03'         \$ 16'41'43'         W           C57         20.00         30.90'         19.49'         27.92'         \$ 26'24'53'         E           C58         758.13         36.06'         18.03'         36.06'         \$ 69'18'56'         E	2*18'36" 88*31'38" 2*43'31"	C186         30.00         13.77'         7.01'         13.65'         \$ 43'34'13"         W         26'18'17"           C187         50.00         28.20'         14.49'         27.83'         \$ 40'33'56"         W         32'18'51"           C188         50.00         70.68'         42.70'         64.94'         \$ 16'05'15"         E         80'59'32"	C317 913.22 110.55 55.36' 110.52' S 69'06'37" E 6'56'18" C318 913.22 90.2 45.17' 90.23' S 62'48'34" E 5'39'48" C319 913.22 56.76 28.39' 56.75' S 58'11'50" E 3'33'40"
L58 N 48'04'14" W 25.00' L196 N 79' L59 N 68'19'53" E 24.00' L197 S 89'	'40'49" W 61.11' '18'00" W 55.00'	C59         758.13         50.68'         25.35'         50.67'         \$ 66'02'17 E           C60         758.13         50.67'         25.35'         50.67'         \$ 62'12'29 E	3°49'48" 3°49'47"	C189 50.00 78.74' 50.20' 70.85' N 17'41'52" E 90'13'30" C190 30.00 34.56' 19.49' 32.68' N 05'35'30" E 66'00'47"	C320 913.22 56.46 28.24 56.45 S 54'38'44" E 3'32'33" 28.17 56.30 S 51'06'28" E 3'31'59"
L61 N 17'50'56" E 25.25' L199 N 10	'18'00" W 22.85'   0'16'16" E 37.06'   0'16'16" E 49.89'	C61     758.13     36.06'     18.03'     36.05'     S 58'55'51'     E       C62     20.00     30.75'     19.35'     27.81'     N 78'22'54'     E       C63     734.80     65.49'     32.77'     65.47'     N 36'53'05'     E	2°43'30" 88°06'01" 5°06'25"	C191     256.78     14.93'     7.47'     14.93'     N 4015'50" E     319'52"       C192     474.00     63.81'     31.95'     63.76'     N 45'47'09" E     7'42'47"       C193     474.00     68.43'     34.27'     68.37'     N 53'46'42" E     8'16'18"	C322 913.22 56.24 28.13' 56.23' S 47'34'37" E 3'31'43" C323 913.22 56.21 28.12' 56.20' S 44'02'57" E 3'31'36" C324 913.22 13.0 6.53' 13.06' N 41'52'34" W 0'49'11"
L63 S 17'50'56" W 16.36' L201 N 10 L64 N 47'04'04" W 35.06' L202 62'	016'16" E 14.07' 17'52" W 3.34'	C64         20.00         30.20'         18.82'         27.41'         N 03'48'53         W           C65         30.00         23.86'         12.60'         23.24'         N 69'51'15'         W	86'30'22" 45'34'22"	C194 474.00 37.18' 18.60' 37.17' N 60'09'42" E 4'29'41" C195 285.47 30.30' 15.17' 30.29' N 59'22'05" E 6'04'54"	C325 349.00 51.38 25.74' 51.34' N 00'39'16" W 8'26'08" 43.48' 86.28' N 11'58'23" W 14'12'05"
L66 S 47*04'04" E 9.25' L204 N 11*	*03'52" W 4.49' *01'22" W 68.70' *01'22" W 14.28'	C66         50.00         18.76'         9.49'         18.66'         N 81'53'21'         W           C67         50.00         45.34'         24.36'         43.80'         N 45'09'44'         W           C68         50.00         36.14'         18.90'         35.36'         N 01'31'10'         E	21°30′11″ 51°57′02″ 41°24′46″	C196         285.47         49.01'         24.56'         48.95'         N 51'24'33" E         950'09"           C197         20.00         26.44'         15.55'         24.55'         N 84'21'37" E         75'44'16"           C198         175.00         88.27'         45.09'         87.33'         S 72'13'13" E         28'53'55"	C327 349.00 73.95 37.11' 73.81' N 25'08'37" W 12'08'24" C328 349.00 67.44 33.83' 67.34' N 36'44'59" W 11'04'20" C329 349.00 25.45 12.73' 25.44' N 44'22'29" W 4'10'41"
L68 S 3419'53" W 23.48' L206 N 16'	'22'51" W 19.67'	C69         50.00         36.14'         18.90'         35.36'         N 42'55'5E         E           C70         50.00         39.22'         20.68'         38.22'         N 86'06'29         E	41°24'47" 44°56'18"	C199 20.00 31.42 20.00 28.28 S 27'09'04" E 90'00'00" C200 415.97 41.18 20.61 41.16 S 74'59'14" E 5'40'20"	C330 615.14 24.24 12.12' 24.24' S 06'22'45" W 2'15'29" C331 615.14 49.4 24.75' 49.46' S 02'56'47" W 4'36'28"
L71 S 44'28'52" E 21.18' L209 S 46	"27'50" E 35.68' "27'50" E 47.75'	C71         50.00         43.53'         23.25'         42.17'         \$ 46'28'57'         E           C72         50.00         17.49'         8.84'         17.41'         \$ 11'31'06         E           C73         30.00         23.86'         12.60'         23.24'         \$ 24'16'52'         E	49*52'50" 20*02'51" 45*34'23"	C201     415.97     65.42'     32.78'     65.35'     S 82'19'45" E     9'00'41"       C202     415.97     65.42'     32.78'     65.35'     S 88'39'34" W     9'00'41"       C203     415.97     65.42'     32.78'     65.35'     N 79'38'53" E     9'00'41"	C332 615.14 50.6 25.32' 50.60' S 01'42'52" E 4'42'50" 18.89' 37.75' S 05'49'48" E 3'31'01" 22.56' 29.93' S 40'51'21" W 96'53'18"
L73 N 68'01'42" E 36.25' L211 5 46	'27'50" E 55.00' '27'50" E 53.00' '27'50" E 61.00'	C74 20.00 30.20' 18.82' 27.41' N 89'40'46 E C75 734.80 82.71' 41.40' 82.66' N 49'39'03' E	86°30'21" 6°26'57"	C204 415.97 65.42' 32.78' 65.35' N 793833 E 900'41"  C205 415.97 65.42' 32.78' 65.35' N 61'37'31" E 9'00'41"	C335 30.00 11.20 5.66° 11.13′ N 80'00'26" W 21'23'08" C336 70.00 12.81 6.44′ 12.83′ N 74'34'20" W 10'30'55"
L75         N 21'40'07" W         30.96'         L213         S 46'           L76         N 55'40'07" W         64.20'         L214         S 42'	27'50" E 25.00' 38'34" E 55.01'	C76 734.80 68.66' 34.36' 68.64' N 55'33'08' E C77 1370.03 13.14' 6.57' 13.14' N 58'30'14 E	5*21'13" 0*32'58"	C206         415.97         40.55'         20.29'         40.54'         N 54'19'37" E         5'35'09"           C207         2433.01         22.55'         11.27'         22.55'         S 51'16'06" W         0'31'52"           C208         2433.01         53.88'         26.94'         53.88'         N 50'22'06" E         1'16'08"	C337     70.00     35.08     17.92'     34.71'     \$ 85'48'51" W     28'42'43"       C338     70.00     39.18     20.12'     38.67'     \$ 55'25'31" W     32'03'57"       C339     70.00     44.98     23.30'     44.21'     \$ 20'59'02" W     36'49'03"
L78 N 66'02'17" W 58.02' L216 5 04'	*09'40" W 57.93' *09'40" W 20.26' 3'11'12" E 31.33'	C78     1370.03     55.99'     28.00'     55.99'     N 59'56'58'     E       C79     1370.03     55.99'     28.00'     55.99'     N 62'17'28'     E       C80     1370.03     54.10'     27.05'     54.09'     N 64'35'35'     E	2*20'30" 2*20'29" 2*15'45"	C208     2433.01     53.88'     26.94'     53.88'     N 50'22'06" E     1'16'08"       C209     2433.01     53.88'     26.94'     53.88'     N 49'05'58" E     1'16'08"       C210     2433.01     53.88'     26.94'     53.88'     N 47'49'50" E     1'16'08"	C340 70.00 44.6 23.11 43.89 S 15'41'47" E 36'32'34"  C341 30.00 2.84 1.42' 2.83' N 31'15'36" W 5'24'55"
L80 S 55'40'07" E 64.20' L218 S 03 L81 S 62'12'29" E 3.67' L219 S 10	3*11'12" E 35.27' 3*18'53" E 16.43'	C81 1318.03 56.27' 28.14' 56.26' S 64'02'08 W C82 1318.03 56.27' 28.14' 56.26' S 61'35'22 W	2°26'46" 2°26'46"	C211 2433.01 15.54' 7.77' 15.54' N 47'00'47" E 0'21'58" C212 2433.01 33.51' 16.75' 33.51' N 42'37'44" E 0'47'21"	C342 30.00 8.58 4.32' 8.55' S 20'21'36" E 16'23'06" C343 1505.85 38.0t 19.03' 38.06' S 11'26'36" E 1'26'53"
L83 S 66*02'17" E 17.46' L221 S 18	118'53" E 50.19' 115'34" E 52.18' 115'34" E 12.68'	C83 1318.03 49.16' 24.59' 49.16' \$ 59'17'52' W C84 682.80 7.69' 3.85' 7.69' \$ 57'54'23' W C85 682.80 60.92' 30.48' 60.90' \$ 55'01'40' W	2*08'14" 0*38'43" 5*06'44"	C213       2433.01       53.88'       26.94'       53.88'       N 43'39'28" E       116'08"         C214       2433.01       53.88'       26.94'       53.88'       N 44'55'36" E       116'08"         C215       2433.01       53.88'       26.94'       53.88'       N 46'11'44" E       116'08"	C344     1505.85     54.19     27.10'     54.19'     S 09'41'18" E     2'03'43"       C345     1505.85     57.12     28.57'     57.13'     S 07'34'14" E     2'10'26"       C346     1505.85     57.19     28.59'     57.18'     S 05'23'44" E     2'10'33"
L85 S 72'09'04" E 63.55' L223 S 25 L86 N 78'12'29" E 72.14' L224 S 25	5*23'16" E 39.94' 5*23'16" E 26.66'	C86 682.80 60.92' 30.48' 60.90' \$ 49'54'56 W C87 682.80 60.92' 30.48' 60.90' \$ 44'48'12 W	5'06'44" 5'06'44"	C216         604.40         41.69'         20.86'         41.69'         N 40'15'29" E         3'57'09"           C217         604.40         53.88'         26.96'         53.87'         N 35'43'39" E         5'06'29"	C347 1505.85 61.49 30.75 61.49 S 03'08'17" E 2'20'23" C348 1505.85 59.11 29.56 59.10 S 00'50'37" E 2'14'56"
L88 S 34119'53" W 32.01' L226 S 37	"05'36" E 26.44' "05'36" E 40.02' "05'26" E 13.08'	C88 682.80 60.92' 30.48' 60.90' \$ 39'41'28 W C89 682.80 33.41' 16.71' 33.41' \$ 35'44'00' W C90 72.00 6.54' 3.27' 6.53' N 70'55'55 E	5*06'44" 2*48'13" 5*12'05"	C218     604.40     25.27'     12.64'     25.27'     N 31'58'32"     E     2'23'45"       C219     30.00     25.32'     13.47'     24.57'     N 06'35'57"     E     48'21'26"       C220     50.00     14.56'     7.33'     14.51'     N 09'14'20"     W 16'40'52"	C349     1497.02     40.73     20.37'     40.73'     N 09'29'30" E     1'33'32"       C350     1497.02     52.04     26.02'     52.03'     N 07'42'59" E     1'59'30"       C351     1497.02     52.14     26.07'     52.13'     S 05'43'22" W     1'59'44"
L90 N 42'45'00" E 58.12' L228 S 46	*27'50" E 55.65'	C91 72.00 42.66' 21.98' 42.04' N 89:29'31 W C92 72.00 42.66' 21.98' 42.04' N 55:32'28 W	33'57'03" 33'57'03"	C221         50.00         60.30'         34.42'         56.71'         N 33'38'56" E         69'05'40"           C222         50.00         36.01'         18.83'         35.24'         N 88'49'48" E         41'16'03"	C352   1497.02   52.2   26.11'   52.20'   S 03'43'34" W   1'59'53"   C353   1497.02   52.2   26.12'   52.23'   N 01'43'38" E   1'59'57"
L92     N 77'43'28" W     29.03'     L230     5 46       L93     N 78'59'21" W     15.00'     L231     3 46	"27'50" E 55.65' "27'50" E 60.02'	C93     72.00     21.23'     10.69'     21.16'     N 30'07'02     W       C94     50.00     16.82'     8.49'     16.75'     N 12'01'44'     W       C95     50.00     38.94'     20.52'     37.96'     N 19'55'18'     E	16.53'49" 19.16'47" 44.37'16"	C223         30.00         23.86'         12.60'         23.24'         N 86'40'38" E         45'34'23"           C224         633.05         32.80'         16.40'         32.79'         N 65'22'14" E         2'58'07"           C225         633.05         51.88'         25.96'         51.87'         N 69'12'10" E         4'41'44"	C354     1497.02     52.7     26.35'     52.70'     N 00'16'51" W     2'01'02"       C355     1497.02     52.2     26.11'     52.20'     N 02'17'18" W     1'59'53"       C356     1497.02     52.05     26.03'     52.05'     N 04'17'01" W     1'59'32"
L95 S 79"19'10" E 43.63' L233 S 46	1.05'26" E 52.74' 1.27'50" E 1.95' 1.15'34" E 1.76'	C96         50.00         38.94'         20.52'         37.96'         N 64'32'34'         E           C97         50.00         38.94'         20.52'         37.96'         S 70'50'10         E	44'37'16" 44'37'15"	C226         633.05         51.88'         25.96'         51.87'         N 73:53'54" E         4'41'45"           C227         633.05         51.88'         25.96'         51.87'         N 78:35'39" E         4'41'44"	C357 1497.02 52.05 26.03' 52.05' N 06"16"33" W 1"59"32" 26.37' 52.72' N 08"16"51" W 2"01"05"
L97 S 21'54'22" W 39.86' L235 N 46' L98 N 21'54'22" E 39.86' L236 N 42	'27'50" W 13.95' 2'14'03" E 14.81'	C98         50.00         46.24'         24.92'         44.61'         S 22'01'51         E           C99         50.00         9.64'         4.83'         9.62'         S 09'59'13'         W           C100         30.00         66.59'         60.41'         53.74'         S 48'04'47'         E	52°59'24" 11°02'43" 127°10'41"	C228     633.05     51.88'     25.96'     51.87'     N 83'17'23" E     4'41'44"       C229     633.05     51.88'     25.96'     51.87'     N 87'59'08" E     4'41'45"       C230     633.05     49.70'     24.86'     49.68'     \$ 87'25'04" E     4'29'52"	C359     1497.02     65.00     32.51'     65.00'     N 10'32'02" W     2'29'16"       C360     1497.02     34.43'     17.21'     34.43'     N 12'26'12" W     1'19'04"       C361     1362.49     40.58'     20.29'     40.57'     N 12'14'32" W     1'42'23"
L100 S 84'04'40" W 9.72' L238 S 83	2'14'03" E 9.05' 3'31'33" E 8.34' 1'52'48" W 70.16'	C100 30.00 66.99 60.41 53.74 \$ 48.04 47 E C101 30.00 21.87' 11.45' 21.39' \$ 13'26'34 W C102 30.00 1.99' 0.99' 1.99' \$ 09'20'38 E	41'46'39" 3'47'44"	C230 633.03 49.70 24.86 49.68 S 87.25 04 E 429.52 C231 4471.01 2.23' 1.12' 2.23' S 85.09'17" E 0'01'43" C232 4471.04 53.28' 26.64' 53.28' S 84'47'56" E 0'40'58"	C362   1362.49   103.0   51.54'   103.00'   N 09"13'23"   W   4"19'57"   25.00'   50.00'   N 06'00'19"   W   2"06'10"
L102 N 78'55'24" W 50.00' L240 5 40' L103 N 10'50'01" E 10.74' L241 5 42'	'52'48" W 36.89' '14'03" W 59.22'	C103         50.00         50.90'         27.90'         48.73'         S 17:55'26         W           C104         50.00         44.83'         24.05'         43.34'         S 72'46'25         W	51'22'04"	C233         4471.04         53.28'         26.64'         53.28'         \$ 84.06'58"         \$ 0.40'58"           C234         4471.04         53.30'         26.64'         53.28'         \$ 83.26'00"         \$ 0.40'59"	C364 1362.49 100.0 50.06' 100.05' S 02'50'59" E 412'30" 20.06' 20.02' 28.30' S 4416'38" W 90'02'44"
L105 N 62*24'32" E 21.88' L243 5 42'	"14'03" W 64.00' "14'03" W 54.00' "14'03" W 54.00'	C105         50.00         40.44'         21.40'         39.35'         N 58'22'22         W           C106         50.00         48.50'         26.35'         46.62'         N 07'24'50         W           C107         50.00         51.95'         28.59'         49.64'         N 50'08'24'         E		C235     4471.04     53.28'     26.64'     53.28'     S 82.45'01"     E 0.40'58"       C236     4471.04     53.28'     26.64'     53.28'     S 82'04'03"     E 0.40'58"       C237     4471.04     53.28'     26.64'     53.28'     S 81'23'05"     E 0.40'58"	C367 20.00 30.62 19.22 27.72 N 39'40'01" W 87'43'05" C368 1557.85 91.02 45.53 91.01 N 02'31'06" E 3'20'52"
L107 S 69'35'18" W 15.12' L245 S 42' L108 S 27'35'28" E 127.66' L246 S 45'	"14'03" W 34.18' "00'42" W 19.84'	C108 30.00 23.86' 12.60' 23.24' N 57'07'04' E C109 20.00 32.17' 20.77' 28.81' N 11'44'45' W	92'09'16"	C238         4471.04         53.22'         26.61'         53.22'         \$ 80'42'09" E         0'40'55"           C239         4471.04         15.00'         7.50'         15.00'         \$ 80'15'55" E         0'11'32"	C369 1557.85 56.59 28.30' 56.58' N 00'11'47" W 2'04'53" C370 1557.85 51.10 25.55' 51.10' N 02'10'36" W 1'52'46"
L110 S 75'49'43" W 60.40' L248 S 45'	*00'42" W 65.06' *00'42" W 17.51' \$'41'21" W 50.01'	C110 706.13 47.48' 23.75' 47.47' N 59'44'57' W C111 706.13 61.88' 30.96' 61.86' N 64'11'09 W C112 20.00 32.00' 20.59' 28.69' S 63'41'03 W	5*01'15"	C240     4471.04     55.45'     27.72'     55.44'     S 79'48'50" E     0'42'38"       C241     4471.04     45.43'     22.72'     45.43'     S 79'10'03" E     0'34'56"       C242     20.00     31.64'     20.23'     28.44'     N 55'47'58" E     90'38'54"	C371     1557.85     54.96     27.48'     54.95'     N 04'07'37" W     2'01'16"       C372     1557.85     55.38     27.69'     55.38'     N 06'09'22" W     2'02'13"       C373     1557.85     55.66'     27.84'     55.66'     N 08'11'53" W     2'02'50"
L112 S 51'32'02" W 30.24' L250 S 56 L113 S 28'28'41" W 36.54' L251 S 68'	3'41'21" W 50.61' 3'57'05" W 17.01'	C113 20.00 31.98' 20.57' 28.68' N 27'57'39 W C114 1276.15 89.60' 44.82' 89.58' N 75'46'56 W	91°37'11" 4°01'22"	C243         501.00         89.87'         45.05'         89.74'         N 15'36'50" E         10'16'38"           C244         20.00         31.12'         19.70'         28.07'         N 34'18'10" W         89'08'51"	C374 1557.85 55.81 27.91' 55.81' N 10"14'53" W 2'03'10" C375 1557.85 38.01 19.01' 38.01' N 11'58'24" W 1'23'53"
L115 S 59*48'10" W 52.04' L253 S 68'	"57'05" W 67.46' "57'05" W 16.14' "12'49" W 51.56'	C115 20.00 29.45' 18.12' 26.86' S 60'01'40 W C116 20.00 33.36' 22.05' 29.63' N 29'56'16 W C117 50.00 18.05' 9.12' 17.95' N 67'22'56 W	95*34'25"	C245         4419.04         42.98'         21.48'         42.96'         N 79'09'18" W         0'33'26"           C246         20.00         31.63'         20.21'         28.43'         S 55'16'01" W         90'35'57"           C247         2341.23         37.47'         18.74'         37.47'         S 09'30'31" W         0'55'01"	C376 30.00 53.39 37.03' 46.62' N 38'18'49" E 101'58'21" C377 20.00 26.00 15.25' 24.25' S 53'22'38" E 74'38'45" C378 615.14 38.19 19.10' 38.18' S 17'49'58" E 3'33'26"
L117 S 59'48'10" W 51.18' L255 S 81' L118 N 31'53'07" E 54.50' L256 N 87	12'49" W 49.06' 7'18'11" W 18.67'	C118 50.00 38.21' 20.09' 37.29' N 35'08'47 W C119 50.00 38.21' 20.09' 37.29' N 08'38'28 E	43*47'15"	C248         2341.23         55.50'         27.75'         55.50'         S 08'22'16"         W 1'21'30"           C249         2341.23         55.31'         27.66'         55.31'         S 07'00'54"         W 1'21'13"	C379 615.14 52.9 26.50' 52.95' S 22'04'42" E 4'56'02" C380 615.14 105.49 52.88' 105.36' S 29'27'29" E 9'49'33"
L119 N 31'53'07" E 51.50' L257 N 87 -120 S 65'30'13" W 46.43' L258 N 87	7*18'11" W 65.50' 7*18'11" W 18.39'	C120         50.00         40.03'         21.16'         38.97'         N 53'28'21         E           C121         50.00         42.17'         22.43'         40.93'         S 79'25'43'         E           C122         50.00         38.37'         20.18'         37.43'         S 33'17'06'         E	45*52'31" 48*19'22" 43*57'52"	C250         1505.85         35.24'         17.62'         35.24'         N 05'10'28" E         1'20'27"           C251         2341.23         20.17'         10.08'         20.17'         N 06'05'30" E         0'29'37"           C252         1505.85         55.48'         27.74'         55.48'         N 03'26'54" E         2'06'39"	C381 30.00 52.3 35.69' 45.93' S 15'34'37" W 99'53'45" C382 50.00 14.48 7.29' 14.43' S 57'13'43" W 16'35'33" C383 50.00 40.65 21.52' 39.54' S 25'38'26" W 46'35'00"
_122 S 28'28'41" W 32.23' L260 N 82'	"29'56" W 36.66' "29'56" W 55.01' "29'56" W 55.01'	C123 30.00 32.55' 18.09' 30.98' S 42'23'2' E C124 30.00 2.22' 1.11' 2.22' N 75'36'04 W	62*10'30"	C253         1505.85         55.51'         27.76'         55.51'         S 01'20'13" W         2'06'44"           C254         2393.23         33.58'         16.79'         33.58'         N 09'33'55" E         0'48'14"	C384 50.00 39.05 20.58' 38.06' S 20'01'30" E 44'44'51" C385 50.00 39.05 20.58' 38.06' S 64'46'20" E 44'44'50"
L124 S 40'44'38" W 50.51' L262 N 82' L253 N 82'	"29'56" W 55.01" "29'56" W 55.01"	C125 1328.15 5.51' 2.76' 5.51' N 77'36'20 W C126 1328.15 50.13' 25.07' 50.13' S 76'24'19 E	0°14'16" 2°09'46"	C255         2393.23         92.50'         46.25'         92.48'         N 08'03'22"         E         2'12'52"           C256         20.00         31.63'         20.21'         28.43'         N 35'19'56"         W 90'35'57"	C386 50.00 44.3. 23.73' 42.88' N 67'27'39" E 50'47'12" C387 50.00 8.56 4.29' 8.55' N 37'09'56" E 9'48'14"
_127 S 40*44'38" W 53.54' L265 5 43	29'56" W 62.65' 3'08'07" E 46.19' 5'01'37" E 49.52'	C127     1328.15     38.56'     19.28'     38.56'     \$ 74'29'31     \$ C128       C128     20.00     30.89'     19.48'     27.91'     \$ 62'05'40'     \$ C129'       C129     706.13     46.64'     23.33'     46.63'     \$ 8'35'19'     \$ W	1*39'49" 88*29'27" 3*47'03"	C257         4419.04         37.15'         18.58'         37.15'         N 80'52'22" W         0'28'54"           C258         4419.04         54.14'         27.06'         54.14'         N 81'27'53" W         0'42'07"           C259         4419.04         54.12'         27.06'         54.12'         N 82'09'59" W         0'42'06"	C389 20.00 34.08 22.86' 30.10' S 02'21'15" W 97'38'09" C390 308.92 60.30 30.25' 60.20' S 56'45'49" W 11'11'01"
L129 S 40'44'38" W 53.54' L267 N 42 -130 S 12'20'30" W 61.73' L268 N 28	2*14'50" E 49.70' 3*58'29" E 50.99'	C130         20.00         7.19'         3.64'         7.16'         S 07'32'37'         W           C131         65.00         3.66'         1.83'         3.66'         S 01'09'01'         E		C260         4419.04         54.12'         27.06'         54.12'         N 82'52'05" W         0'42'06"           C261         4419.04         54.12'         27.06'         54.12'         N 83'34'11" W         0'42'06"	C391 308.92 82.34 41.39' 82.06' \$ 69*59*15" W 15*15*51" C392 308.92 82.24 41.36' 82.00' \$ 85*14*46" W 15*15*11"
L132 N 4214'03" E 11.86' L270 N 20	4'42'13" E 52.00' 0'54'30" E 53.46' 5'43'53" E 54.87'			C262 4419.04 54.14' 27.06' 54.12' N 8416'17" W 0.42'07"	C393   308.92   19.4.   9.71'   19.41'   N 85'19'36" W   3'36'05"
L134 S 89'11'15" W 79.86' L272 5 77 L135 S 62'25'37" W 70.12' L273 N 84	"40'18" W 46.71' 13'04" W 46.71' 3'43'05" W 48.42'				

	CURVE TABLE						
	CURVE	RADIUS	LENGTH TANGENT CHOR		CHORD	BEARING	DELTA
	C394	30.00	46.44	29.3 <b>3'</b>	41.94	S 02*06'53" E	88*41'53"
Ī	C395	20.00	31.87	20.46	28.60'	S 87*53'07" W	91 <b>'</b> 18'07"
	C396	563.14	25.90	12.95'	25.89'	N 45'08'47" W	2'38'05"
	C397	563.14	65.54	32.81	65.51	N 40°29'42" W	6'40'07"
	C398	563.14	65.54	32.81	65.51'	N 33'49'35" W	6'40'07"
	C399	563.14	65.54	32.81	65.51'	N 27'09'28" W	6'40'06"
[	C400	563.14	65.54	32.81	65.51'	N 20'29'21" W	6'40'07"
	C401	563.14	65.54	32.81	65.51'	N 13'49'14" W	6'40'07"
[	C402	563.14	65.54	32.81	65.51'	N 07'09'08" W	6'40'07"
[	C403	563.14	65.54	32.81	65.51'	N 00°29'01" W	6'40'07"
	C404	563.14	45.78	22.90'	45.77	N 05'10'46" E	4'39'27"
	C405	401.00	38.10	19.06'	38.08'	S 03°14'07" W	5'26'37"
	C406	401.00	51.79	25.9 <b>3'</b>	51.76	S 03'11'12" E	7'24'02"
	C407	401.00	51.79	25.9 <b>3'</b>	51.76	S 10'35'13" E	7*24'01"
	C408	401.00	51.79	25.9 <b>3'</b>	51.76	S 17*59'14" E	7*24'01"
	C409	401.00	51.79	25.9 <b>3'</b>	51.76	S 25°23'16" E	7*24'01"
	C410	401.00	<b>51.</b> 79'	25.9 <b>3'</b>	51.76	S 32'47'17" E	7'24'02"
	C411	401.00	51.79	25.9 <b>3'</b>	51.76'	S 40°11'18" E	7*24'01"
	C412	401.00	18.02	9.01	18.02'	S 45'10'34" E	2*34'31"
	C413	30.00	13.15	6.68'	13.04'	N 59*01'13" W	25'06'47"
	C414	70.00	18.72'	9.42'	18.66'	N 63*55'00" W	15 <b>°</b> 19'14"
	C415	70.00	44.07	22.79'	43.35'	N 38*13'14" W	36°04'17"
	C416	70.00	39.01	20.02'	38.50'	N 04"13'16" W	31*55'41"
	C417	70.00	41.63'	21.45	41.02	N 28'46'46" E	34'04'22"
	C418	70.00	26.31	13.3 <b>1'</b>	26.15	N 56°34'54" E	21°31'54"
	C419	30.00	13.15	6.68	13.04	N 54'47'27" E	25*06'47"
	C420	360.92	42.59	21.32	42.57	N 45*36'54" E	6*45'41"
	C421	360.92	51.16	25.6 <b>3'</b>	51.12'	N 53°03'24" E	8'07'20"
	C422	360.92	51.16	25.6 <b>3'</b>	51.12'	N 61"10'44" E	8'07'20"
	C423	360.92	51.17	25.6 <b>3'</b>	51.12'	N 69'18'05" E	8*07'21"
	C424	360.92	51.16	25.6 <b>3'</b>	51.12'	N 77°25'25" E	8'07'20"
	C425	360.92	51.16	25.6 <b>3'</b>	51.12'	N 85*32'45" E	8'07'20"
	C426	360.92	43.26	21.65	43.23'	S 86'57'34" E	6'52'02"
	C427	441.97	19.11	9.56	19.11'	S 52*46'22" W	2'28'40"

	PARCEL TABL		107	PARCEL TABL	
B1, L27	SQUARE FOOTAGE 187,402.25 sq. ft.	ACRES 4.3022 acres	B14, L21	SQUARE FOOTAGE 12,887.50 sq. ft.	ACRES 0.2959 acres
B1, L28	7,400.18 sq. ft.	0.1699 acres	B14, L22	8,827.57 sq. ft.	0.2027 acres
B1, L29	7,202.84 sq. ft.	0.1654 acres	B14, L23	6,646.49 sq. ft.	0.1526 acres
B1, L30	7,003.29 sq. ft.	0.1608 acres	B14, L24	6,656.00 sq. ft.	0.1528 acres
B1, L31	7,153.56 sq. ft.	0.1642 acres	B14, L25	6,656.00 sq. ft.	0.1528 acres
B1, L32	7,153.56 sq. ft. 7,072.91 sq. ft.	0.1642 acres 0.1624 acres	B14, L26 B14, L27	6,656.00 sq. ft. 7,518.87 sq. ft.	0.1528 acres 0.1726 acres
B1, L34	6,991.79 sq. ft.	0.1605 acres	B15, L1	7,441.96 sq. ft.	0.1708 acres
B1, L35	6,878.03 sq. ft.	0.1579 acres	B15, L2	6,162.50 sq. ft.	0.1415 acres
B1, L36	6,773.46 sq. ft.	0.1555 acres	B15, L3	6,163.95 sq. ft.	0.1415 acres
B1, L37 B1, L38	7,087.34 sq. ft. 7,865.00 sq. ft.	0.1627 acres 0.1806 acres	B15, L4	6,795.24 sq. ft. 7,377.96 sq. ft.	0.1560 acres 0.1694 acres
B1, L39	7,020.00 sq. ft.	0.1606 deres	B15, L6	7,524.87 sq. ft.	0.1694 deres
B1, L40	7,020.00 sq. ft.	0.1612 acres	B15, L7	7,593.54 sq. ft.	0.1743 acres
B1, L41	9,737.76 sq. ft.	0.2235 acres	B15, L8	7,698.28 sq. ft.	0.1767 acres
B1, L42	9,834.41 sq. ft.	0.2258 acres	B15, L9	7,839.23 sq. ft.	0.1800 acres
B1, L43	11,237.12 sq. ft. 10,008.76 sq. ft.	0.2580 acres	B15, L10	7,996.17 sq. ft. 8,601.54 sq. ft.	0.1836 acres
B1, L44 B1, L45	10,008.76 sq. ft. 11,197.06 sq. ft.	0.2298 acres 0.2570 acres	B15, L11	8,708.59 sq. ft.	0.1975 acres 0.1999 acres
B1, L46	8,786.82 sq. ft.	0.2017 acres	B15, L13	8,778.05 sq. ft.	0.2015 acres
B1, L47	9,451.12 sq. ft.	0.2170 acres	B15, L14	9,030.02 sq. ft.	0.2073 acres
B1, L48	6,657.78 sq. ft. 6,296.25 sq. ft.	0.1528 acres	B15, L15	9,304.08 sq. ft. 9,229.17 sq. ft.	0.2136 acres
B1, L49 B1, L50	6,606.37 sq. ft.	0.1445 acres 0.1517 acres	B15, L16	9,229.17 sq. ft. 8,816.22 sq. ft.	0.2119 acres 0.2024 acres
B8, L7	8,236.62 sq. ft.	0.1891 acres	B15, L18	8,658.58 sq. ft.	0.1988 acres
B8, L8	10,499.31 sq. ft.	0.2410 acres	B15, L19	9,840.43 sq. ft.	0.2259 acres
B8, L9	24,667.07 sq. ft.	0.5663 acres	B15, L20	10,724.91 sq. ft.	0.2462 acres
B8, L10 B8, L11	21,902.43 sq. ft. 10,713.80 sq. ft.	0.5028 acres 0.2460 acres	B15, L21	9,950.30 sq. ft. 10,193.97 sq. ft.	0.2284 acres 0.2340 acres
B8, L12	11,681.04 sq. ft.	0.2682 acres	B15, L23	9,350.10 sq. ft.	0.2146 acres
B8, L13	13,634.30 sq. ft.	0.3130 acres	B15, L24	8,688.29 sq. ft.	0.1995 acres
B8, L14	10,936.21 sq. ft.	0.2511 acres	B15, L25	8,633.71 sq. ft.	0.1982 acres
B8, L15	10,641.46 sq. ft.	0.2443 acres	B15, L26	8,559.19 sq. ft.	0.1965 acres
B8, L16 B8, L17	6,037.06 sq. ft. 5,716.96 sq. ft.	0.1386 acres 0.1312 acres	B15, L27	8,484.66 sq. ft. 8,184.62 sq. ft.	0.1948 acres 0.1879 acres
B8, L18	5,531.93 sq. ft.	0.1312 deres	B15, L29	8,091.01 sq. ft.	0.1879 deres
B8, L19	7,107.36 sq. ft.	0.1632 acres	B15, L30	7,932.94 sq. ft.	0.1821 acres
B8, L20	7,009.45 sq. ft.	0.1609 acres	B15, L31	7,192.00 sq. ft.	0.1651 acres
B8, L21	7,424.00 sq. ft.	0.1704 acres	B15, L32	7,041.20 sq. ft. 7,558.61 sq. ft.	0.1616 acres
B8, L22 B8, L23	11,415.08 sq. ft. 6,243.27 sq. ft.	0.2621 acres 0.1433 acres	B15, L33	7,558.61 sq. ft. 8,013.00 sq. ft.	0.1735 acres 0.1840 acres
B8, L24	6,389.68 sq. ft.	0.1467 acres	B15, L35	7,741.03 sq. ft.	0.1840 dcres
B8, L25	7,848.20 sq. ft.	0.1802 acres	B15, L36	7,044.57 sq. ft.	0.1617 acres
B8, L26	15,282.32 sq. ft.	0.3508 acres	B15, L37	6,851.88 sq. ft.	0.1573 acres
B8, L27 B8, L28	14,509.46 sq. ft. 12,560.01 sq. ft.	0.3331 acres 0.2883 acres	B15, L38	6,828.37 sq. ft. 6,694.23 sq. ft.	0.1568 acres 0.1537 acres
B8, L29	10,328.46 sq. ft.	0.2371 acres	B15, L40	6,792.07 sq. ft.	0.1559 acres
B8, L30	7,275.06 sq. ft.	0.1670 acres	B15, L41	7,369.96 sq. ft.	0.1692 acres
B8, L31	7,236.18 sq. ft.	0.1661 acres	B15, L42	7,513.63 sq. ft.	0.1725 acres
B8, L32 B8, L33	6,385.57 sq. ft. 5,960.02 sq. ft.	0.1466 acres	B16, L1	6,163.01 sq. ft. 5,997.03 sq. ft.	0.1415 acres 0.1377 acres
B8, L34	5,960.02 sq. ft. 5,960.02 sq. ft.	0.1368 acres 0.1368 acres	B16, L3	6,030.21 sq. ft.	0.1377 deres
B8, L35	6,372.35 sq. ft.	0.1463 acres	B16, L4	6,029.32 sq. ft.	0.1384 acres
B10, L2	8,019.24 sq. ft.	0.18 <b>41 acres</b>	B16, L5	5,994.35 sq. ft.	0.1376 acres
B10, L3	8,291.66 sq. ft.	0.1904 acres	B16, L6	5,925.27 sq. ft. 5,938.31 sq. ft.	0.1360 acres
B10, L4	6,968.00 sq. ft. 6,968.00 sq. ft.	0.1600 acres 0.1600 acres	B16, L7	5,938.31 sq. ft. 6,333.28 sq. ft.	0.1363 acres 0.1454 acres
B10, L6	6,968.00 sq. ft.	0.1600 acres	B16, L9	6,282.46 sq. ft.	0.1442 acres
B10, L7	7,638.23 sq. ft.	0.175 <b>3</b> acres	B16, L10	6,282.46 sq. ft.	0.1442 acres
B10, L8	7,489.10 sq. ft.	0.1719 acres	B16, L11	6,282.46 sq. ft.	0.1442 acres
B10, L9	6,737.23 sq. ft. 7,407.93 sq. ft.	0.1547 acres 0.1701 acres	B16, L12	6,282.46 sq. ft. 6,282.46 sq. ft.	0.1442 acres 0.1442 acres
B10, L11	7,807.10 sq. ft.	0.1792 acres	B16, L14	6,282.46 sq. ft.	0.1442 acres
B10, L12	8,205.35 sq. ft.	0.1884 acres	B16, L15	6,269.55 sq. ft.	0.1439 acres
B10, L13	8,590.08 sq. ft.	0.1972 acres	B16, L16	6,028.93 sq. ft. 5,838.91 sq. ft.	0.1384 acres
B10, L14	9,268.19 sq. ft. 12,000.15 sq. ft.	0.2128 acres 0.2755 acres	B16, L17	5,838.91 sq. ft. 5,838.91 sq. ft.	0.1340 acres 0.1340 acres
B10, L16	10,877.28 sq. ft.	0.2497 acres	B16, L19	5,838.91 sq. ft.	0.1340 acres
B10, L17	9,520.32 sq. ft.	0.2186 acres	B16, L20	5,838.91 sq. ft.	0.1340 acres
B12, L1 B12, L2	7,270.16 sq. ft. 8,147.72 sq. ft.	0.1669 acres 0.1870 acres	B16, L21	5,838.91 sq. ft. 5,841.68 sq. ft.	0.1340 acres 0.1341 acres
B12, L2	9,411.14 sq. ft.	0.2160 acres	B16, L23	5,902.68 sq. ft.	0.1355 acres
B12, L4	9,939.45 sq. ft.	0.2282 acres	B16, L24	5,865.60 sq. ft.	0.1347 acres
B12, L5	17,844.55 sq. ft.	0.4097 acres	B16, L25	6,320.61 sq. ft.	0.1451 acres
B12, L6 B12, L7	13,260.18 sq. ft. 8,053.06 sq. ft.	0.3044 acres 0.1849 acres	B16, L26	6,411.34 sq. ft. 6,403.57 sq. ft.	0.1472 acres 0.1470 acres
B12, L8	6,202.56 sq. ft.	0.1424 acres	B16, L28	6,656.20 sq. ft.	0.1528 acres
B12, L9	5,784.22 sq. ft.	0.1328 acres	B16, L29	6,863.20 sq. ft.	0.1576 acres
B12, L10	5,775.59 sq. ft.	0.1326 acres	B16, L30	6,906.05 sq. ft.	0.1585 acres
B12, L11	6,231.17 sq. ft. 7,943.14 sq. ft.	0.1430 acres 0.1823 acres	B16, L31	6,765.90 sq. ft. 6,443.62 sq. ft.	0.1553 acres 0.1479 acres
B13, L1	10,638.41 sq. ft.	0.1823 acres 0.2442 acres	B16, L32	5,941.05 sq. ft.	0.14/9 acres 0.1364 acres
B13, L3	13,845.32 sq. ft.	0.3178 acres	B16, L34	6,683.01 sq. ft.	0.1534 acres
B13, L4	8,613.81 sq. ft.	0.1977 acres	B16, L35	8,489.68 sq. ft.	0.1949 acres
B13, L5 B13, L6	11,747.24 sq. ft. 7,958.59 sq. ft.	0.2697 acres 0.1827 acres	B16, L36	7,653.88 sq. ft. 6,008.26 sq. ft.	0.1757 acres 0.1379 acres
B13, L7	7,162.44 sq. ft.	0.1644 acres	B16, L38	5,995.90 sq. ft.	0.1379 deres
B13, L8	5,860.61 sq. ft.	0.1345 acres	B16, L39	6,248.30 sq. ft.	0.1434 acres
B13, L9	12,061.25 sq. ft.	0.2769 acres	B16, L40	6,600.00 sq. ft.	0.1515 acres
B13, L10	11,176.44 sq. ft. 8,0.1932 sq. ft.	0.2566 acres	B16, L41	6,360.00 sq. ft. 6,139.49 sq. ft.	0.1460 acres
B13, L11	8,717.01 sq. ft.	0.1932 acres 0.2001 acres	B16, L42	7,323.09 sq. ft.	0.1409 acres 0.1681 acres
B13, L13	8,180.97 sq. ft.	0.1878 acres	B16, L44	12,267.20 sq. ft.	0.2816 acres
B13, L14	6,711.55 sq. ft.	0.1541 acres	B16, L45	7,626.87 sq. ft.	0.1751 acres
B13, L15	5,938.04 sq. ft. 5,938.04 sq. ft.	0.1363 acres	B16, L46	6,481.26 sq. ft. 6,210.00 sq. ft.	0.1488 acres
B13, L16	5,938.04 sq. ft. 5,938.04 sq. ft.	0.1363 acres 0.1363 acres	B16, L47	6,210.00 sq. ft. 6,210.00 sq. ft.	0.1426 acres 0.1426 acres
B13, L18	5,938.04 sq. ft.	0.136 <b>3 acres</b>	B16, L49	6,200.47 sq. ft.	0.1423 acres
B13, L19	5,938.04 sq. ft.	0.1363 acres	B16, L50	6,615.38 sq. ft.	0.1519 acres
B13, L20 B13, L21	6,477.04 sq. ft. 7,662.68 sq. ft.	0.1487 acres 0.1759 acres	B16, L51	6,777.68 sq. ft. 6,812.18 sq. ft.	0.1556 acres
B13, L21	7,562.68 sq. ft.	0.1759 acres 0.1738 acres	B16, L52	6,790.63 sq. ft.	0.1564 acres 0.1559 acres
B13, L23	7,687.43 sq. ft.	0.1765 acres	B16, L54	6,858.18 sq. ft.	0.1539 dcres
B13, L24	6,569.42 sq. ft.	0.1508 acres	B16, L55	6,872.82 sq. ft.	0.1578 acres
B13, L25	6,569.42 sq. ft.	0.1508 acres	B16, L56	6,768.27 sq. ft.	0.1554 acres
B13, L26	6,569.42 sq. ft. 6,605.10 sq. ft.	0.1508 acres 0.1516 acres	B16, L57	6,467.28 sq. ft. 6,427.17 sq. ft.	0.1485 acres 0.1475 acres
B13, L27	11,280.32 sq. ft.	0.1516 acres	B16, L59	6,372.94 sq. ft.	0.14/5 acres 0.1463 acres
B13, L29	14,820.73 sq. ft.	0.3402 acres	B16, L60	6,318.71 sq. ft.	0.1451 acres
B13, L30	8,515.28 sq. ft.	0.1955 acres	B16, L61	6,264.48 sq. ft.	0.1438 acres
B13, L31	9,899.55 sq. ft. 8,464.56 sq. ft.	0.2273 acres	B16, L62	6,786.06 sq. ft. 90,261.65 sq. ft.	0.1558 acres
B13, L32 B13, L33	8,481.80 sq. ft.	0.1943 acres 0.1947 acres	B17, L1 B17, L2	7,399.64 sq. ft.	2.0721 acres 0.1699 acres
B13, L34	6,861.32 sq. ft.	0.1575 acres	B17, L3	6,440.00 sq. ft.	0.1699 dcres 0.1478 acres
B13, L35	6,597.51 sq. ft.	0.1515 acres	B17, L4	6,440.00 sq. ft.	0.1478 acres
B13, L36	6,353.27 sq. ft. 6,493.07 sq. ft.	0.1459 acres	B17, L5	6,440.00 sq. ft. 6,440.00 sq. ft.	0.1478 acres 0.1478 acres
B13, L37	6,519.69 sq. ft.	0.1491 acres 0.1497 acres	B17, L6	6,674.99 sq. ft.	0.14/8 acres 0.1532 acres
B14, L1	8,085.79 sq. ft.	0.1856 acres	B17, L8	6,735.96 sq. ft.	0.1532 dcres
B14, L2	6,258.44 sq. ft.	0.1437 acres	B17, L9	6,634.32 sq. ft.	0.1523 acres
B14, L3	5,794.40 sq. ft.	0.1330 acres	B17, L10	6,231.45 sq. ft.	0.1431 acres

# ENCHANTED HILLS

#### UNIT THREE

BEING A PORTION OF TRACTS 8, 9C AND 9A, LAURA E. . MUNDY SURVEY No. 238, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING IN ALL 4,287,108.46 SQ. FT. OR 98.4185 ACRES OF LAND MORE OR LESS

1. FOR CURVE, LINE AND PARCEL TABLES SEE SHEET 3 OF 3. 2. SUBDIVISION TO BE SERVICED BY THE U.S. POSTAL SERVICE, ANY ALTERNATE AND / OR ADDITIONAL NCDBU LOCATION IS TO BE COORDINATED WITH THE GROWTH MANAGEMENT DIVISION OF THE U.S. POSTAL SERVICE.

- 3. SIDEWALKS FOR ALL STREETS WITHIN AND ABUTTING THIS SUBDIVISION WILL BE PROVIDED BY BUILDER AND DEVELOPER (SEE STREET IMPROVEMENT PLANS).
- 4. RESTRICTIVE COVENANTS FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY CLERK, DEED AND RECORD SECTION, INSTRUMENT No.
- THE ABOVE REFERENCED SUBDIVISION IS WITHIN ZONES "A" and "C". EXPLANATION OF ZONE "A": AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARDS NOT DETERMINED NONE OF THE RESIDENTIAL LOTS ARE WITHIN ZONE "A". EXPLANATION OF ZONE "C": AREA OF MINIMAL FLOODING ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS, AS PER AREA COMMUNITY PANEL NO. 480214 0011 C, DATED FEBRUARY 5, 1986.
- 6. VEHICULAR ACCESS TO LOT 1, BLOCK 15, LOT 2, BLOCK 17, LOTS 1 AND 14-29, BLOCK 20 ABUTTING ENCHANTED PASS DRIVE, LOTS 45-47 AND 50, BLOCK 1, LOTS 10-13,26-29,AND 35, BLOCK 8, LOTS 1-5 AND 11, BLOCK 12, LOTS 1-3 AND 38, BLOCK 13, LOTS 21-27, BLOCK 14, LOT 42, BLOCK 15 ABUTTING NORTHWESTERN DRIVE, LOT 2, BLOCK 10 AND LOT 1, BLOCK 12, ABUTTING ENCHANTED SPRINGS SHALL BE FROM OTHER DEDICATED STREETS ONLY. THE INSTRUMENT ASSURING RELEASE OF ACCESS IS FILED IN EL PASO COUNTY
- "THIS IS TO CERTIFY THAT WATER AND SEWER SERVICES WILL BE PROVIDED TO ENCHANTED HILLS UNIT THREE BYTHE EL PASO PUBLIC SERVICE BOARD IN ACCORDANCE WITH THEIR RULES AND REGULATIONS AND WITH SECTION 16.343 OF THE TEXAS WATER CODE. WATER AND SEWER SERVICES WILL BE EXTENDED TO THE SUBDIVISION FROM EXISTING FACILITIES LOCATED ON DESERT BOULEVARD NORTH, AND WILL BE CONSTRUCTED TO SERVE THIS SUBDIVISION WITHIN TWO (2) YEARS OF DATE OF THE FILING OF THIS PLAT

INSTRUMENT NO.\_

8. THIS SUBDIVISION LIES WITHIN THE CANUTULEO INDEPENDENT SCHOOL DISTRICT

This property is subject to impact fees. Impact fees shall be calculated based on the table below:

, L4 5,720.00 sq. ft.
, L5 5,720.00 sq. ft.
, L6 5,720.00 sq. ft.
, L7 5,720.00 sq. ft.
, L8 5,720.00 sq. ft.
, L9 5,720.00 sq. ft.
, L9 5,720.00 sq. ft.
, L10 5,915.28 sq. ft.
, L11 7,821.12 sq. ft.
, L12 12,700.11 sq. ft.
, L13 6,935.98 sq. ft.
, L14 5,719.91 sq. ft.
, L15 5,720.00 sq. ft.
, L16 5,720.00 sq. ft.
, L17 5,720.00 sq. ft.
, L18 74,438.07 sq. ft.
, L19 5,698.50 sq. ft.
, L20 7,444.21 sq. ft.

Chapter 395 of the Texas Local Government Code authorizes the City of El Paso to adopt and impose water and wastewater impact fees. This plat note fulfills an obligation mandated by Chapter 395 and sets the assessment of the impact fees in accordance with the impact fee schedule adopted by City Council as set forth below. The collection of the impact fee for this subdivision shall be prior to the time a building permit is issued if development is within the city limits or at the time of the meter connection if development is outside the city limits.

WESTSIDE SERVICE AREA						
METER SIZE	METER CAPACITY RATIO	WATER	WASTEWATER			
LESS THAN 1 INCH	1.00	\$659.00	\$927.00			
1 INCH	1.67	\$1,101.00	\$1,548.00			
1 1/2 INCH	3.33	\$2,195.00	\$3,087.00			
2 INCH	5.33	\$3,514.00	\$4,941.00			
3 INCH	10.00	\$6,593.00	\$9,270.00			
4 INCH	16.67	\$10,990.00	\$15,453.00			
6 INCH	33.33	\$21,973.00	\$30.897.00			
8 INCH	53.33	\$35,158.00	\$49,437.00			
10 INCH	76.67	\$50,545.00	\$71,073.00			
12 INCH	143.33	\$94,490.00	\$132,867.00			

\* Fees do not apply to water meter or connections made for standby fire protection service

WESTSIDE SERVICE AREA						
METER SIZE	METER CAPACITY RATIO	WATER	WASTEWATER			
LESS THAN 1 INCH	1.00	\$659.00	\$927.00			
1 INCH	1.67	\$1,101.00	\$1,548.00			
1 1/2 INCH	3.33	\$2,195.00	\$3,087.00			
2 INCH	5.33	\$3,514.00	\$4,941.00			
3 INCH	10.00	\$6,593.00	\$9,270.00			
4 INCH	16.67	\$10,990.00	\$15,453.00			
6 INCH	33.33	\$21,973.00	\$30.897.00			
8 INCH	53.33	\$35,158.00	\$49,437.00			
10 INCH	76.67	\$50,545.00	\$71,073.00			
12 INCH	143.33	\$94,490.00	\$132,867.00			
Fees do not apply to water meter or connections made for						

**REVIEWED** 

ENGINEERING & CONSTRUCTION

MANAGEMENT DEPARTMENT

modifying the document, without written permission from Roe Engineering, L.C., for the specific purpose intended may be a violation of law. Unauthorized use of this material may result in vil and/or criminal penalties.

This document, whether in hard copy or machine readable format, is owned by

Roe Engineering, L.C. and an instrument of services in respect to the project for which it

was prepared. This document is not intended or authorized for reuse by any party on

extensions of such project or any other project. Any reuse, including copying and/or

:\projects\011509-1 A Encanted Hills\dwg\Plats\Jnit Three\01042011 EH3 PRE-CLOTH 02112013\_FINAL PLAT.DWG 02/27/13 1:41PM

Roe Engineering, L.C.

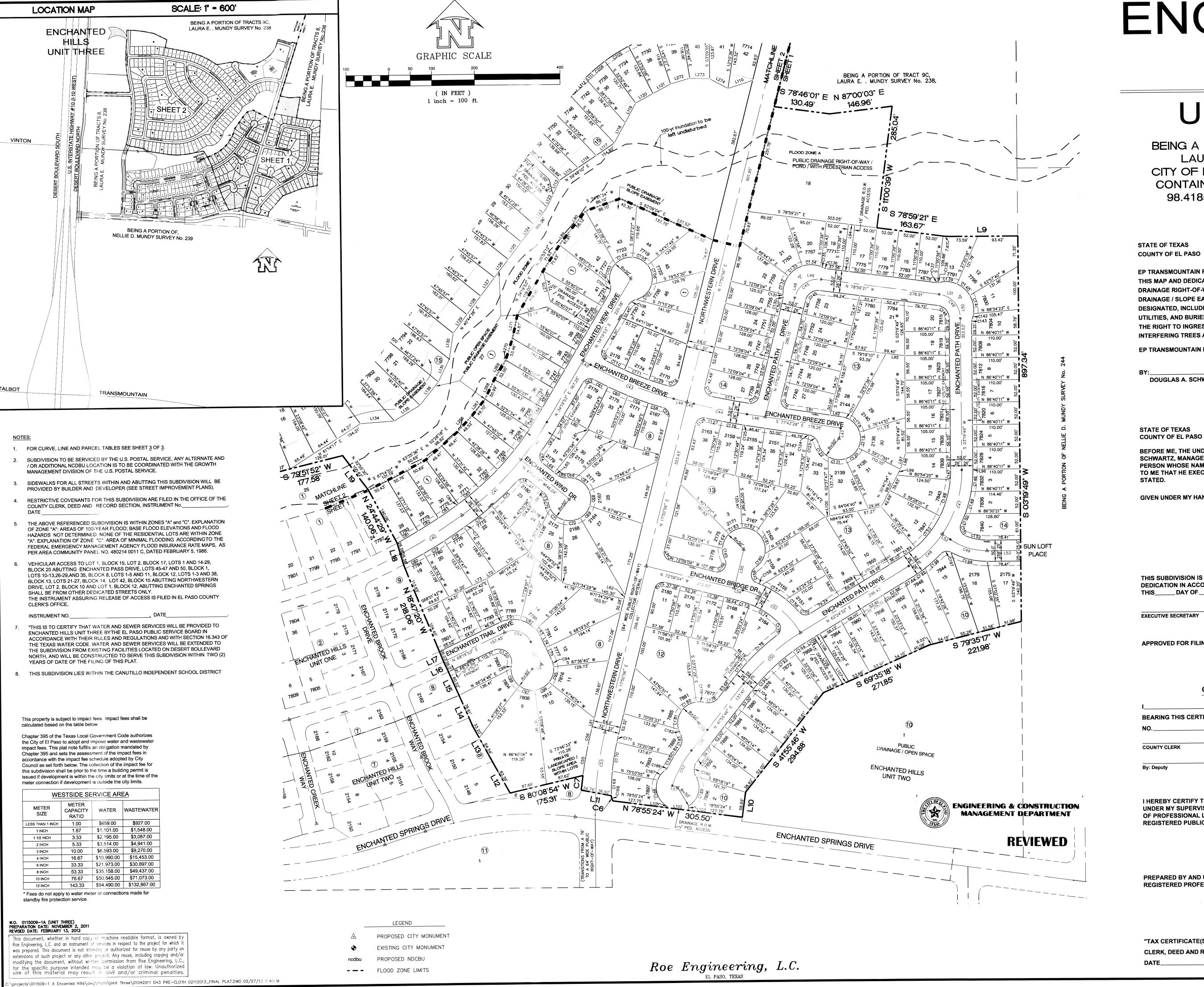
LEGEND

PROPOSED CITY MONUMENT

EXISTING CITY MONUMENT

PROPOSED NDCBU

FLOOD ZONE LIMITS



# ENCHANTED HILLS

#### UNIT THREE

BEING A PORTION OF TRACTS 8, 9C AND 9A, LAURA E. . MUNDY SURVEY No. 238, CITY OF EL PASO, EL PASO COUNTY, TEXAS CONTAINING IN ALL 4,287,108.46 SQ. FT. OR 98.4185 ACRES OF LAND MORE OR LESS

#### **OWNER'S DEDICATION, CERTIFICATION**

STATE OF TEXAS

EP TRANSMOUNTAIN RESIDENTIAL, L.L.C., PROPERTY OWNER(S) OF THIS LAND HEREBY PRESENT THIS MAP AND DEDICATE TO THE USE OF THE PUBLIC THE STREET RIGHT-OF-WAYS, PUBLIC DRAINAGE RIGHT-OF-WAYS / PONDS / WITH PEDESTRIAN ACCESS, PUBLIC OPEN SPACE, PUBLIC DRAINAGE / SLOPE EASEMENT, PARKS AND UTILITY EASEMENTS AS HEREON LAID DOWN AND DESIGNATED, INCLUDING EASEMENTS FOR OVERHANG OF SERVICE WIRES FOR POLE TYPE UTILITIES, AND BURIED SERVICE WIRES CONDUITS AND PIPES FOR UNDERGROUND UTILITIES AND THE RIGHT TO INGRESS AND EGRESS FOR SERVICE AND CONSTRUCTION AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS.

EP TRANSMOUNTAIN RESIDENTIAL L.L.C.

DOUGLAS A. SCHWARTZ, MANAGER

#### **ACKNOWLEDGMENT**

STATE OF TEXAS

SCHWARTZ, MANAGER OF EP TRANSMOUNTAIN RESIDENTIAL, L.L.C., KNOWN BY ME TO BE THE TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN

, 2013 A.D. GIVEN UNDER MY HAND AND SEAL THIS \_\_\_\_\_DAY OF \_

> NOTARY PUBLIC IN AND FOR EL PASO COUNTY, TEXAS MY COMMISSION EXPIRES\_

#### CITY PLAN COMMISSION

THIS SUBDIVISION IS HEREBY APPROVED AS TO THE PLATTING AND AS TO THE CONDITIONS OF THE DEDICATION IN ACCORDANCE WITH CHAPTER 212 OF THE LOCAL GOVERNMENT CODE OF TEXAS THIS\_\_\_\_\_DAY OF \_\_\_\_

APPROVED FOR FILING THIS \_

CITY DEVELOPMENT DIRECTOR

#### COUNTY CLERK'S RECORDING CERTIFICATE

, COUNTY CLERK OF EL PASO COUNTY, CERTIFY THAT THE PLAT BEARING THIS CERTIFICATE WAS FILED AND RECORDED UNDER THE INSTRUMENT

, IN THE PLAT RECORDS OF THE EL PASO COUNTY.

I HEREBY CERTIFY THAT THIS PLAT REPRESENTS A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND IS IN COMPLIANCE WITH THE CURRENT TEXAS BOARD OF PROFESSIONAL LAND SURVEYING, PROFESSIONAL AND TECHNICAL STANDARDS, **REGISTERED PUBLIC LAND SURVEYOR No. 2449** 

PREPARED BY AND UNDER THE SUPERVISION OF BRADLEY ROE **REGISTERED PROFESSIONAL ENGINEER No. 31886** 

BRADLEY ROE, P.E. 31886

ENGINEERING FIRM F-2103 "TAX CERTIFICATE(S) FOR THIS SUBDIVISION ARE FILED IN THE OFFICE OF THE COUNTY

CLERK, DEED AND RECORDS SECTION, INSTRUMENT NO.

SHEET 1 OF 3

