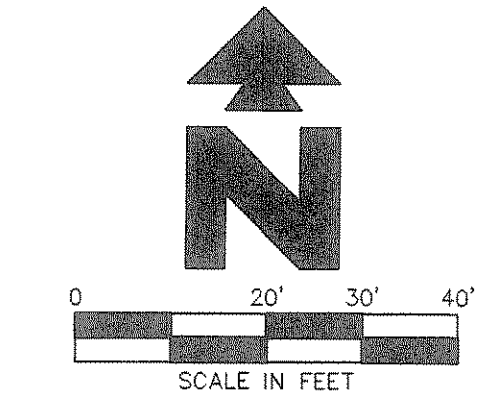


IRRIGATION DETAILS

SYMBOL	DETAIL	MANUFACTURE/MODEL/DESCRIPTION
61A	WIRE CONNECTION	14 GAUGE SINGLE-STRAND DIRECT BURIAL NOT SHOWN ON PLANS.
61E	MASTER VALVE	RAINBIRD PEB-150 (1.0") <ul style="list-style-type: none"> VALVE BOXES: 12" STANDARD-SIZE, SPECIFICATION GRADE, UV-RESISTANT PLASTIC VALVE BOX (2 VALVES PER BOX MAXIMUM). USE GREEN BOX LIDS FOR TURF AND GROUNDCOVER-PLANTED AREAS AND TAN FOR EXPOSED ROCK AREAS. LOCATE VALVES AT LEAST 18" AWAY FROM FACE OF CURB AND AVOID PLACEMENT AT OR PAST CURB RADIUS ALONG VEHICULAR ROUTES. VALVE TAGS: T. CHRISTY ENTERPRISE'S STANDARD-SIZE, SINGLE SIDED, YELLOW IRRIGATION IDENTIFICATION TAGS MODEL NO. ID-STD-YI.
62C	MANUAL DRAIN VALVE	NOT SHOWN ON PLANS.
64A	PIPE AND WIRE TRENCHING	NOT SHOWN ON PLANS.
78A	CONTROLLER	ET WATER SYSTEMS, LLC SMART CONTROLLER, MODEL NO. 205W RAIN/ FREEZER FEATURES INCLUDED. CONTROLLER PEDESTAL: V.I.T. PRODUCTS / STRONGBOX, MODEL NO. SB-16SS CONTROLLER MOUNTING PAD: V.I.T. PRODUCTS / QUICKPAD, MODEL NO. OP-16.
78C	FLOW SENSOR	CREATIVE SENSOR TECHNOLOGIES, INC. 1-1/2" FLOW SENSOR, MODEL NO. FST-115-001. <ul style="list-style-type: none"> RUN CONTINUOUS FLOW SENSOR WIRE FROM FLOW SENSOR TERMINAL, THROUGH DEDICATED FLOW SENSOR CONDUIT BACK TO IRRIGATION CONTROLLER PEDESTAL. FLOW SENSOR CABLE: TWO-STRAND, SHIELD CABLE P-7162D. LOCATE INSIDE A 3/4" PVC CONDUIT.
78D	REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY	WATTS SERIES 009 OR 919 WITH VERTICALLY-ORIENTED BALL-TYPE ISOLATION VALVE. ENCLOSURE: LOCKABLE, PAD-MOUNTED FIBERGLASS ENCLOSURE, HOTBOX INC. SERIES OR EQUAL. LOKBOX SERIES OR EQUAL FOR AREAS WITH ANNUAL FREEZES.
78E	DRIP VALVE ASSEMBLY	RAINBIRD XCZ-100-B-COM VALVE BOXES: 12" STANDARD-SIZE, SPECIFICATION GRADE, UV-RESISTANT PLASTIC VALVE BOX (2 VALVES PER BOX MAXIMUM). <ul style="list-style-type: none"> USE GREEN BOX LIDS FOR TURF AND GROUNDCOVER-PLANTED AREAS AND TAN FOR EXPOSED ROCK AREAS. LOCATE VALVES AT LEAST 18" AWAY FROM FACE OF CURB AND AVOID PLACEMENT AT OR PAST CURB RADIUS ALONG VEHICULAR ROUTES. VALVE TAGS: T. CHRISTY ENTERPRISE'S STANDARD-SIZE, SINGLE SIDED, YELLOW IRRIGATION IDENTIFICATION TAGS MODEL NO. ID-STD-YI.
78F	BOWSMITH MULTI-OUTLET 200 SERIES DRIP EMITTER (ML200)	IN A 6" DIA. ROUND VALVE BOX INSTALLED 3' FROM TREE TRUNK. INSTALL 1 PER TREES. <ul style="list-style-type: none"> LARGE TREE= 12 GPH TOTAL ORNAMENTAL TREE= 6 GPH TOTAL PALM TREE= 6 GPH TOTAL
78G	SUBSURFACE DRIP IRRIGATION	NETAFIM TECHLINE CV DRIPLINE WITH INTEGRAL PRESSURE-COMPENSATING, SELF-CLEANING, ANTI-SIPHON CHECK VALVE. <ul style="list-style-type: none"> BURIED 2" MINIMUM-6" MAXIMUM DEPTH. EMITTER OUTPUT (GPH): 0.26 GPH ON CENTER SPACING: 18" DRIPLINE SPACING: 18" (SEASONAL COLOR) EMITTER OUTPUT (GPH): 0.9 GPH ON CENTER SPACING: 12" DRIPLINE SPACING: 12"
78K	FERTILIZER INJECTOR	EZ-FLO SYSTEM MAINLINE/COUPLER INSTALLATION. LOCATE UNIT AFTER THE HYDROMETER ON A BY-PASS LOOP OFF THE MAINLINE. MODEL #: EZ001-OX
78J	MANUAL LINE FLUSHING VALVE	TRUBO PLUMBER TO TUBING <ul style="list-style-type: none"> NIBCO LINE-SIZE TRUE-UNION BALL TIP 24" LENGTH FLEX-TUBING COILED IN A 6" DIA. INSTALL ONE (1) IN EACH ISOLATED PLANTER AREA AT LOW POINT IN SYSTEM, AT EXHAUST HEADER. BOUND VALVE BOX: INSTALL ONE IN EACH ISOLATED PLANTER AREA AT LOW POINT IN SYSTEM OPPOSITE LOW-FLOW VALVE ASSEMBLY.



LEGEND

EXISTING		CONTROLLING MONUMENT	
○	LIGHT POLE - 1 IN LINE LAMP	○	EAST
○	MONITORING WELL	○	NORTH
○	PK NAIL SET	○	SOUTH
○	PK NAIL FOUND	○	WEST
○	PARKING SPACE COUNT	---	BOUNDARY LINE
○	BILLBOARD/PYLON	---	NATURAL GAS
○	RISE TRAFFIC SIGNAL	---	SANITARY SEWER LINES
○	SIGN	---	WATER LINES
○	SEWER MANHOLE	---	OVERHEAD ELECTRIC
○	SIGN-TELEPHONE WARNING	○	"X" CUT
○	TRAFFIC SIGNAL	○	DRAINAGE MANHOLE
○	UTILITY POLE	○	VAULT ELECTRIC
○	WATER METER	○	FIRE HYDRANT
○	WATER VALVE	○	SIGN-FIBER OPTIC WARNING
○	DEED RECORDS COLLIN COUNTY, TEXAS	○	GAS RISER
○	FLAT RECORDS COLLIN COUNTY, TEXAS	○	GUARD POST
○	IRON ROD FOUND	○	GUY WIRE
○	5/8" IRON ROD W/YELLOW CAP	○	HANDICAPPED FACILITY
○	STAMPED "CEI" SET	○	IRON ROD FOUND
		○	IRON ROD SET
		○	CORRUGATED PLASTIC PIPE
		○	MANHOLE UNKNOWN TYPE

IRRIGATION NOTES

SYMBOL	NOTE	MANUFACTURE/MODEL/DESCRIPTION
○	78A	IRRIGATION METER: X METER (SEE CIVIL PLANS FOR EXACT LOCATION).
---	78B	IRRIGATION LATERAL LINE: PVC CLASS 200. SEE IRRIGATION PIPE SCHEDULE.
---	78C	IRRIGATION MAINLINE: 1" PVC SCHEDULE 40.
---	78D	IRRIGATION SLEEVE: PVC SCHEDULE 40 TYPICAL. SLEEVE SHALL ALLOW FOR IRRIGATION PIPING AND THERE RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18" BEYOND EDGES OF PAVING OR CONSTRUCTION LIMITS.
		PROVIDE ONE (1) ADDITIONAL 4" DIA. SCHEDULE 40 PVC SLEEVE BETWEEN ALL ISLANDS FOR FUTURE USE.
		PROVIDE 3/4" DIA. SCHEDULE 80 PVC BETWEEN IRRIGATION CONTROLLER AND HYDROMETER/FLOW SENSOR FOR FLOW SENSOR WIRE.
○	78E	Y-STRAINER WILKINS-ZURN MODEL NO 500
○	78F	ISOLATION VALVE KING BROS INDUSTRIES (OR EQUAL). SIZE COMMERCIAL GRADE, SCHD 80 FULL-PORT
○	78G	BRASS BALL VALVE WILKINS-ZURN MODEL NO 850
○	78H	1/2" SCHEDULE 80 PVC FLOW SENSOR WIRE CONDUIT FROM FLOW SENSOR LOCATION TO IRRIGATION CONTROLLER PEDESTAL. CONTRACTOR MUST PROVIDE PULL STRING.
○	78I	CONTRACTOR TO INSTALL A GATE VALVE AND A BOX WITH WATER PROOF WIRING FOR FUTURE ZONE CONNECTION.

PROPOSED

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	STORM DRAIN
○	ZONE DESIGNATION
○	VALVE SIZE
○	DESIGN PRESSURE - POUNDS PER SQUARE INCH
○	DESIGN DEMAND - GALLONS PER MINUTE

IRRIGATION PIPE SCHEDULE

PIPE SIZE	G.P.M.
3/4"	6-10
1"	11-18
1-1/8"	19-27
1-1/2"	28-36
2"	37-57
2-1/2"	58-80
3"	81-120

NOTE: IN SOME CASES, IRRIGATION PIPE SIZES SHOWN ON IRRIGATION PLANS ARE LARGER THAN THE SIZE SHOWN ON PIPE SCHEDULE DUE TO HYDRAULIC LOSSES. USE PIPE SIZES AS SHOWN ON IRRIGATION PLANS IF PROVIDED.

CONSTRUCTION SET	DATE	LWY	FOA	PHY	PHY
		PRN	PM	DES	DRW
	7/20/11				

DRIVE-THRU RESTAURANT

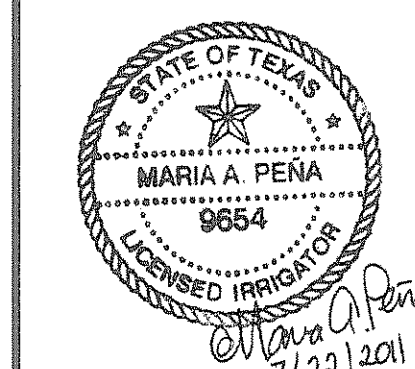
CEI Engineering Associates, Inc.
 ENGINEERS • PLANNERS • SURVEYORS
 LANDSCAPE ARCHITECTS • ENVIRONMENTAL SCIENTISTS

3030 LBJ Freeway, Suite 100 (972)488-3737
 Dallas, TX 75234 (972)488-6732

IRRIGATION PLAN
 1106 E. I. H. 30 TX
 ROCKWALL, TX

DATE: 07-22-11
 TIME: 2:20 PM
 REV: 7

SHEET NO. L3



APPROVED FOR CONSTRUCTION
 AND CODE COMPLIANCE
 SUBJECT TO FIELD INSPECTION
 DATE: 7/21/11
 BY: [Signature]
 CITY OF ROCKWALL
 BUILDERS COPY
 Keep on Job Site At All Times
 For Inspector's Use

CALL 771-7760 FOR INSPECTION
 SITE PLAN - Subject to field inspection
 per approved drainage guidelines. Flowlines
 wells and a final grade survey may be
 required, prior to testing & final inspection.

INTERSTATE HIGHWAY 30
 (A VARIABLE WIDTH RIGHT-OF-WAY)
 (EAST BOUND SERVICE ROAD)

LOT 3, BLOCK 1
 ROCKWALL CENTRE
 CORNERS ADDITION
 CAB. G, SLIDE 299
 ZONING: C
 (VACANT)

LOT 5, BLOCK 1
 ROCKWALL CENTRE
 CORNERS ADDITION
 CAB. G, SLIDE 299
 ZONING: C
 (VACANT)

LOT 4, BLOCK 1
 ROCKWALL CENTRE
 CORNERS ADDITION
 CAB. G, SLIDE 299
 ZONING: C
 (VACANT)

LOT 1, BLOCK 1
 ROCKWALL CENTRE
 CORNERS ADDITION
 CAB. G, SLIDE 299
 ZONING: C
 (VACANT)

RECEIVED
 SEP 23 2011
 BY: [Signature]

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 BY: [Signature]