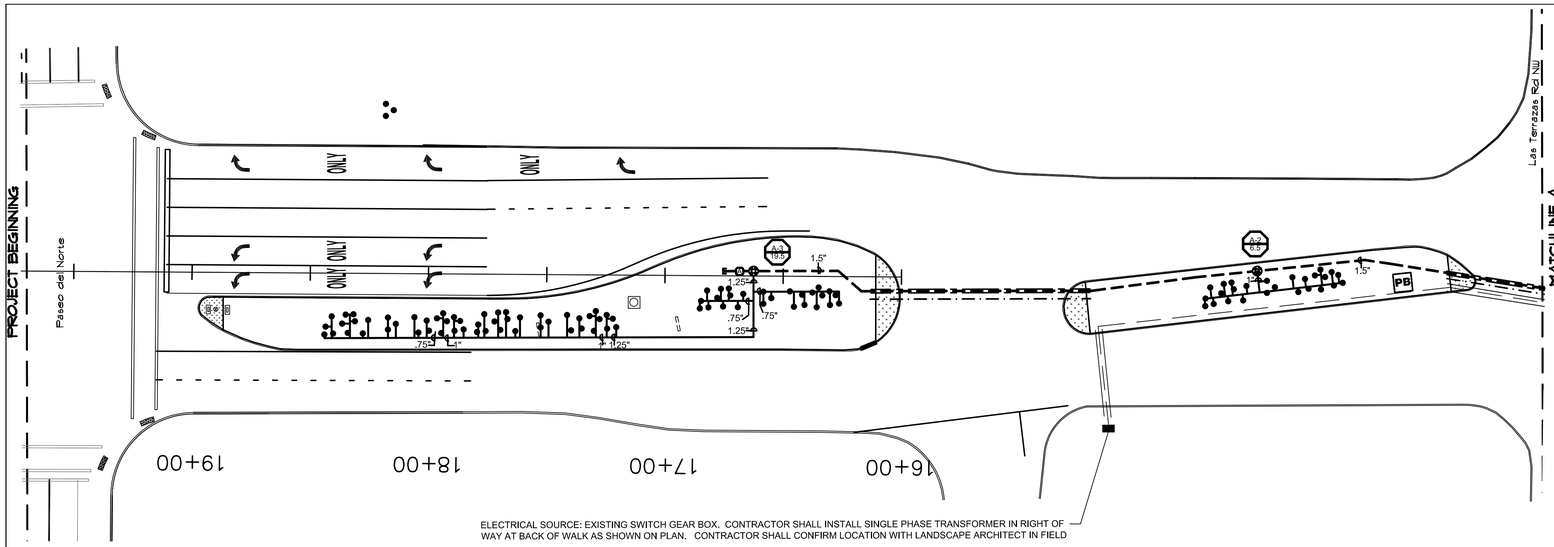
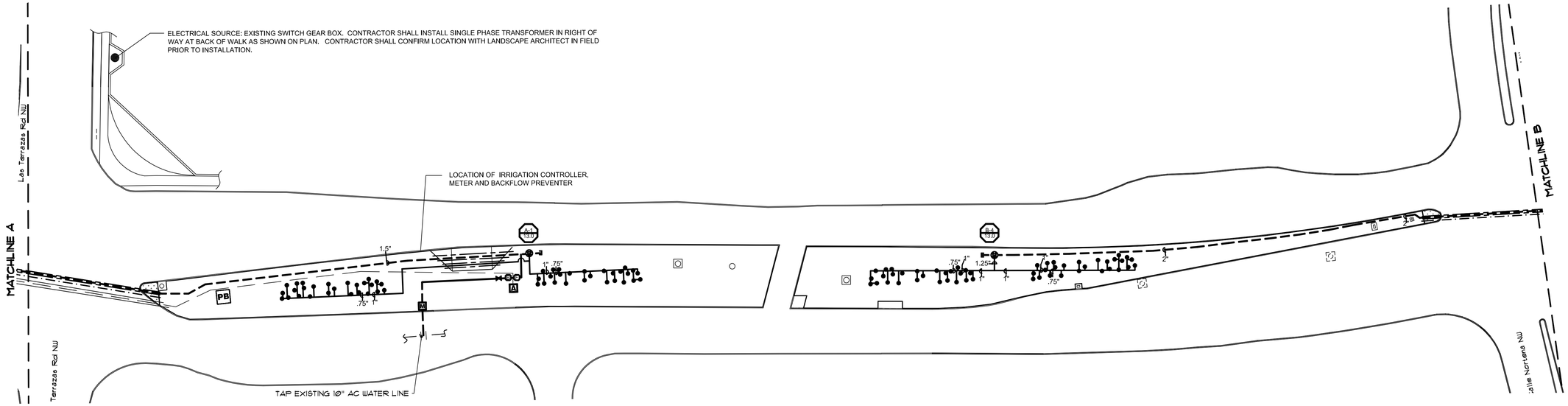


ELECTRICAL SOURCE: EXISTING SWITCH GEAR BOX. CONTRACTOR SHALL INSTALL SINGLE PHASE TRANSFORMER IN RIGHT OF WAY AT BACK OF WALK AS SHOWN ON PLAN. CONTRACTOR SHALL CONFIRM LOCATION WITH LANDSCAPE ARCHITECT IN FIELD



IRRIGATION LEGEND

- RAINBIRD #1401 .25 GPM FULL CIRCLE TRICKLE PATTERN BUBBLER (SEE COA STANDARD DETAIL DRAWINGS: 2710, 2711, 2711-A & 2712)
- ZONE VALVE: RAINBIRD #100-PEB 1" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (SEE COA STANDARD DETAIL DRAWING: 2703)
- ZONE VALVE: RAINBIRD #150-PEB 1 1/2" PLASTIC ELECTRIC VALVE WITH FLOW CONTROL (SEE COA STANDARD DETAIL DRAWING: 2703)
- A — MOTOROLA SCORPIO-AC CONTROLLER WITH INTERSPEC ENCLOSURE, KEYPAD AND DOMED ANTENNA, UNIT SHALL COMMUNICATE ON COA RADIO FREQUENCY (WIDE BAND). (SEE DETAIL DRAWING: B/4 & D/4) (16 STATION OUTPUT)
- ISOLATION VALVE ASSEMBLY - 1 1/2" (SEE COA STANDARD DETAIL #2707)
- B — FEBCO #825YA 1.5" REDUCED PRESSURE BACKFLOW PREVENTER WITH 1.5" MASTER VALVE ASSEMBLY INSTALLED IN "CLAY" COLORED HOTBOX "HOT ROK" HEATED AND INSULATED BACKFLOW DEVICE ENCLOSURE. (SEE DETAIL DRAWING: C/4)
- F — MASTER METER INTERMEDIATE MULTIJET SERIES 1.5" FLOW METER WITH ELECTRICAL OUTPUT REGISTER - 1 PULSE = 1 GALLON (SEE DETAIL DRAWING: C/4)
- M — CITY WATER METER - 1.5" SENSUS SR SERIES (SEE COA STANDARD DETAIL DRAWING: 2362 OR 2363) WATER METER ADDRESS IS : 8300 1/2 GOLF COURSE RD
- A — CRISPEN #UL10.1 1" UNIVERSAL AIR RELEASE VALVE ASSEMBLY
- MAINLINE PIPING - 1 1/2" SCH.40 PVC SOLVENT WELD (SEE PLAN FOR SIZE)
- LATERAL PIPING - SCH.40 PVC SOLVENT WELD (SIZE INDICATED ON PLAN - UNSIZED PIPE IS 3/4")
- SLEEVE PIPING - CLASS 200 PVC (TWO SIZES LARGER THAN PIPE TO BE SLEEVED)
- 120 VOLT ELECTRICAL POWER WIRE ROUTE
- VALVE ID NUMBER
- FLOW IN GALLONS PER MINUTE
- C — SOLVENT WELD CAP SAME SIZE AS MAINLINE
- PB — ELECTRICAL PULL BOX

IRRIGATION NOTES

WATER PRESSURE:
THE WATER PRESSURE AT THIS SITE HAS BEEN REPORTED AND NOTED ON DRAWING BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL VERIFY WATER PRESSURE AT THE NEAREST AVAILABLE FIRE HYDRANT PRIOR TO BEGINNING INSTALLATION OF IRRIGATION SYSTEM.

SPECIFICATIONS AND DETAIL DRAWINGS:
THE CONTRACTOR SHALL REFER TO THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAIL DRAWINGS FOR IRRIGATION CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE PROJECT MANAGER.

PROXIMITY OF PIPING TO SHRUBS AND TREES:
THE PIPE ROUTING SHOWN ON THESE PLANS IS SCHEMATIC AND MAY REQUIRE FIELD ADJUSTMENTS BY THE CONTRACTOR. WHEN POSSIBLE THE CONTRACTOR SHALL INSTALL PIPING OUTSIDE OF ROOTZONE OF SHRUBS AND TREES.

IRRIGATION SATELLITE:
FOR SCORPIO SATELLITES, THE CONTRACTOR SHALL HAVE A RADIO SIGNAL STRENGTH SURVEY PERFORMED TO VERIFY PROPER RADIO COMMUNICATION FROM IRRINET CONTROLLER LOCATION TO PROPOSED SCORPIO CONTROLLER LOCATION. PRIOR TO THE INSTALLATION OF THE SCORPIO CONTROLLER, THE CONTRACTOR SHALL CONTACT: WATER RESOURCES, INC., (MARK MATHES) (505) 888-1366 FOR THIS SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RADIO SIGNAL STRENGTH SURVEY.

BUBBLER CHECK VALVES:
IT IS EXPECTED THAT THERE MAY BE LOW-HEAD DRAINAGE AT SOME OF THE BUBBLERS AT THE LOWER ELEVATIONS. IF PROBLEMATIC CONDITIONS APPEAR, THE CONTRACTOR SHALL INSTALL A RAINBIRD #ACV-050 CHECK VALVE ON ALL EFFECTED BUBBLERS. FOR BID OR PRICING PURPOSES THE CONTRACTOR SHALL ASSUME THE INSTALLATION OF CHECK VALVES ON ALL BUBBLERS AND INCLUDE THESE COSTS IN HIS BID.

ROAD CROSSINGS:
THE CONTRACTOR SHALL BORE ALL SLEEVE PIPE WHEN CROSSING PAVED SURFACES.

PROXIMITY OF PIPING AND WIRING TO LANDSCAPE PODS:
THE CONTRACTOR SHALL INSTALL ALL PIPING (LATERAL AND MAINLINE) AND WIRING AS CLOSE TO THE LANDSCAPE POD AS POSSIBLE IN ORDER TO PROVIDE ROOM FOR FUTURE ROADWAY EXPANSION.

MAINLINE EXPANSION JOINTS:
BECAUSE OF THE EXCEPTIONAL DISTANCE OF SOLVENT-WELD MAINLINE PIPE, IT IS RECOMMENDED THAT THE CONTRACTOR INSTALL FLOW-SPAN EXPANSION COUPLINGS IN 200' INTERVALS TO ACCOMMODATE EXPANSION AND CONTRACTION OF PIPE.

FRICTION LOSS CALCULATIONS

IRRIGATION COMPONENT @ 20.0 GPM TO WORST CASE		
SERVICE LINE FEEDING METER: <20' OF 1 1/2" TYPE-K COPPER (1.83 psi/100')		.36 PSI
WATER METER: 1 1/2" CITY WATER METER (SENSUS SR SERIES)		2.00 PSI
ISOLATION VALVE SPEARS SCH. 80 TRUE UNION BALL VALVE		1.00 PSI
BACKFLOW DEVICE: FEBCO 1 1/2" RP		11.0 PSI
FLOW METER: 1 1/2" MASTER METER INTERMEDIATE MULTIJET		2.00 PSI
MASTER VALVE: RAINBIRD 1 1/2" PEB SERIES (3.9 psi @ 20 gpm)		3.9 PSI
MAINLINE PIPE: 584' OF 1 1/2" SCH.40 PVC (1.10 psi/100' @ 20 gpm)	DISTANCE TO HIGHEST FLOW VALVE	6.42 PSI
ZONE VALVE: RAINBIRD 1" PEB SERIES (2.9 psi @ 20 gpm)		2.9 PSI
LATERAL PIPE FRICTION LOSS: (ESTIMATE 4.0 psi)		4.00 PSI
ELEVATION: 26' (UP HILL SLOPE TO HIGHEST FLOW VALVE)		-11.25 PSI
	PRESSURE LOSSES:	44.83 PSI
	EXPECTED WATER PRESSURE AT TAP:	80.00 PSI
	EXPECTED BUBBLER OPERATING PRESSURE:	35.17 PSI

0 15' 30' 60' 90'

SCALE: 1" = 30'

AS-BUILTS
1-21-09

MORROW REARDON WILKINSON, LTD., LANDSCAPE ARCHITECTS
210 La Veta NE, Albuquerque, NM 87108
505.268.2266 FAX 505.265.9637
mrw@mrwnm.com

AS-BUILT INFORMATION
CONTRACTOR SEQUOIA LANDSCAPING
WORK STAKED BY — DATE
INSPECTIONS PERFORMED BY — DATE
FIELD CORRELATION BY: JOE RUSSEL — DATE 1-21-09
DRAWINGS CORRECTED BY RAYMOND MOYA — DATE 1-21-09

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

ARCHITECTURAL SEAL

REVISIONS

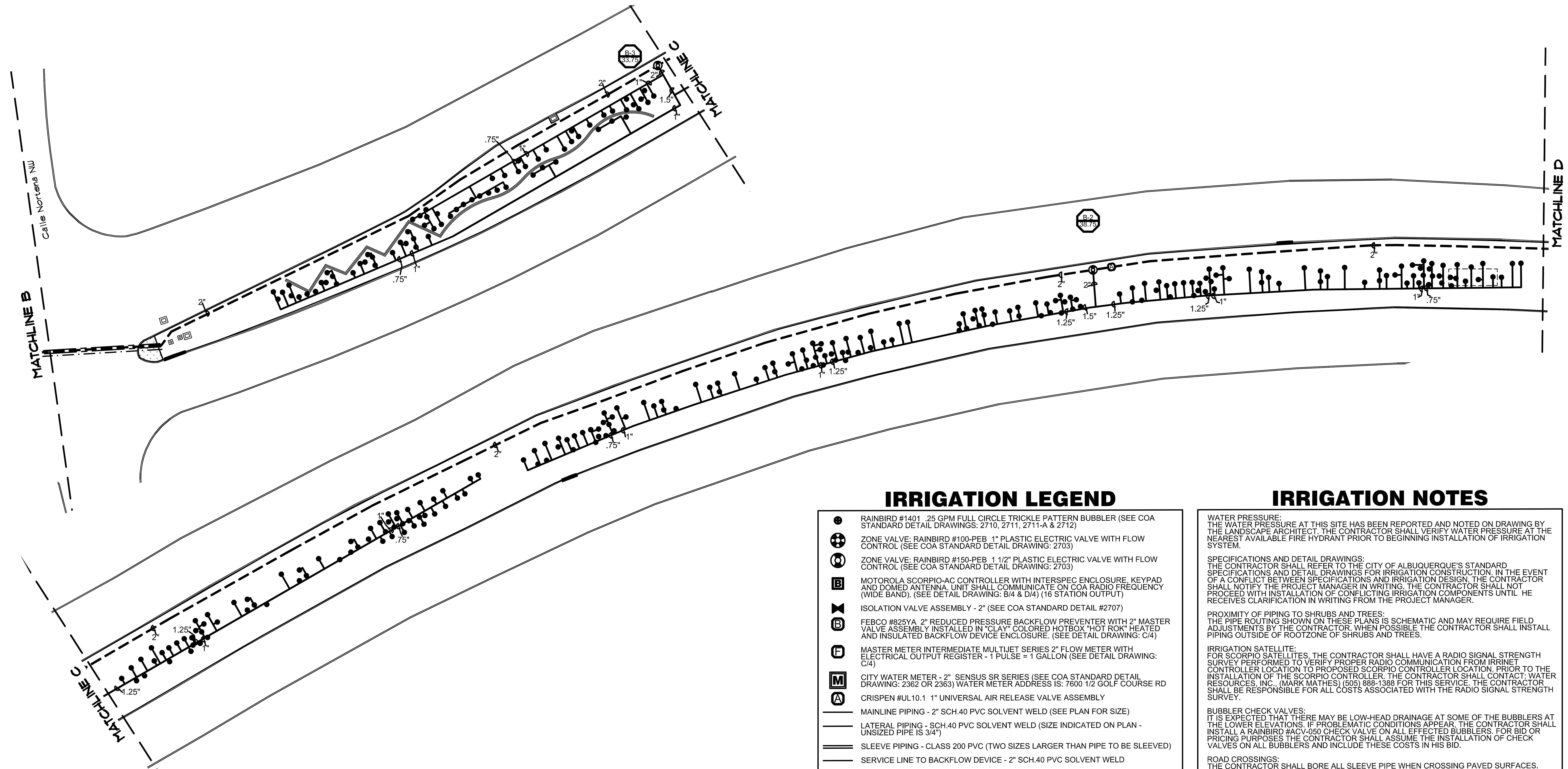
NO.	DATE	REMARKS	BY
	DATE 1/19/09	DESIGNED BY	RMM
	DATE 1/19/09	DRAWN BY	RMM
	DATE 1/19/09	CHECKED BY	RMM

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DEPARTMENT OF MUNICIPAL DEVELOPMENT

PROTOTYPE MEDIAN AND INTERSTATE LANDSCAPES FY08-A
GOLF COURSE: PASEO DEL NORTE to BUTTERFIELD TRAIL NW - WORK ORDER #3

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 790403 | Zone Map No. C12,D12 | Sheet 1 OF 2



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	ISOLATION VALVE ASSEMBLY - 2" (SEE COA STANDARD DETAIL #2707)
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	SERVICE LINE TO BACKFLOW DEVICE - 2" SCH.40 PVC SOLVENT WELD
	120 VOLT ELECTRICAL POWER WIRE ROUTE
XX / XXX	VALVE ID NUMBER / FLOW IN GALLONS PER MINUTE
[	SOLVENT WELD CAP SAME SIZE AS MAINLINE
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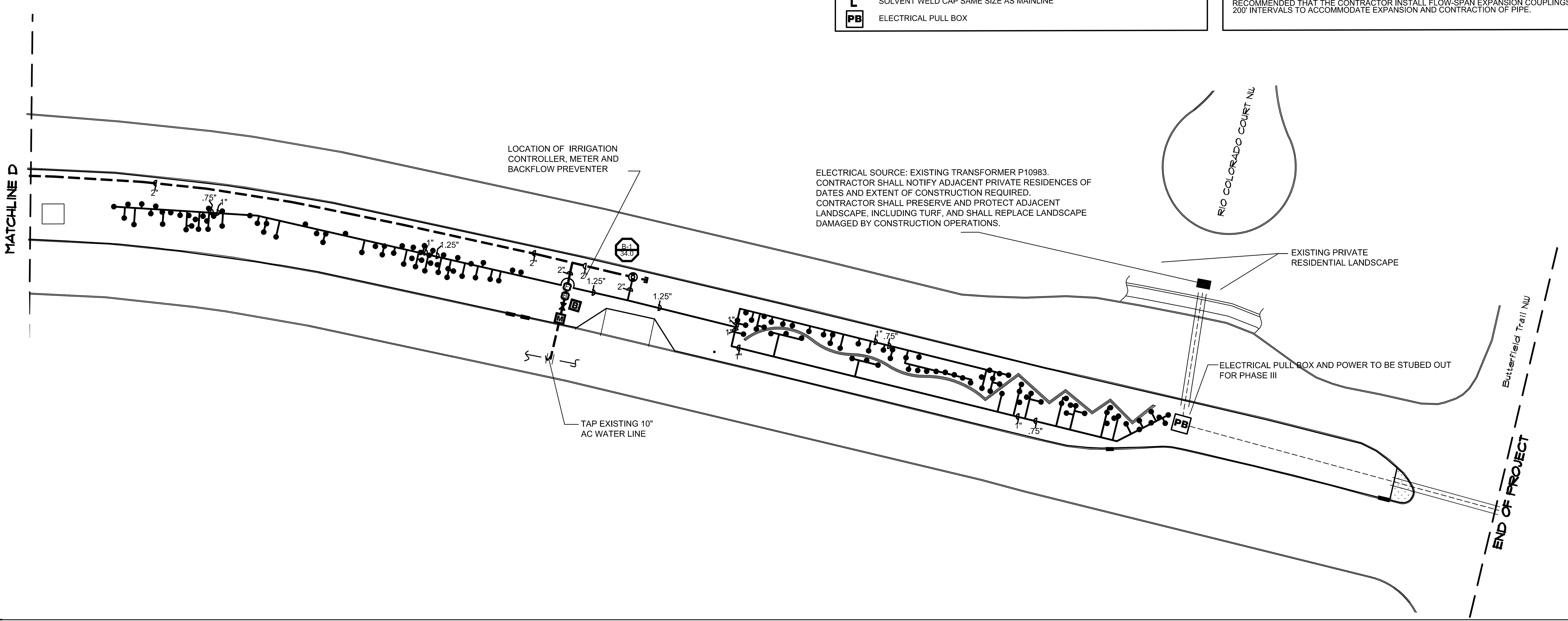
FRICTION LOSS CALCULATIONS

IRRIGATION COMPONENT @ 39.0 GPM TO WORST CASE	
SERVICE LINE FEEDING METER: <20' OF 1 1/2" TYPE-K COPPER (6.59 psi/100')	1.32 PSI
WATER METER: 2" CITY WATER METER (SENSUS SR SERIES)	1.00 PSI
ISOLATION VALVE ASSY SPEARS 2" SCH. 80 TRUE UNION BALL VALVE	1.00 PSI
BACKFLOW DEVICE: FEBCO 2" RP	11.0 PSI
FLOW METER: 2" MASTER METER INTERMEDIATE MULTIJET	6.00 PSI
MASTER VALVE: RAINBIRD 2" PEB SERIES (0 psi @ 40 gpm)	0 PSI
MAINLINE PIPE: 1,010' OF 2" SCH.40 PVC (.89 psi/100' @ 35 gpm) DISTANCE TO FURTHEST FLOW VALVE	8.98 PSI
ZONE VALVE: RAINBIRD 2" PEB SERIES (0 psi @ 35 gpm)	0 PSI
LATERAL PIPE FRICTION LOSS: (ESTIMATE 4.0 psi)	4.00 PSI
ELEVATION: 4' (UP-HILL SLOPE TO VALVE #B-3)	- 1.73 PSI
PRESSURE LOSSES:	35.03 PSI
EXPECTED WATER PRESSURE AT TAP:	73.00 PSI
EXPECTED BUBBLER OPERATING PRESSURE:	37.97 PSI



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SCALE: 1" = 30'

AS-BUILTS
1-21-09

AS-BUILT INFORMATION
CONTRACTOR SEQUOIA LANDSCAPING
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY JOE RUSSEL — DATE 1-21-09
DRAWINGS CORRECTED BY RAYMOND MOYA — DATE 1-21-09

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO.	BY	DATE

ARCHITECTURAL SEAL

REVISIONS
NO.	DATE	REMARKS	BY

DESIGNED BY RMM DATE 1/19/09
DRAWN BY RMM DATE 1/19/09
CHECKED BY RMM DATE 1/19/09

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PROTOTYPE MEDIAN AND INTERSTATE LANDSCAPES FY08-A
GOLF COURSE: PASEO DEL NORTE to BUTTERFIELD TRAIL NW - WORK ORDER #3

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 790403 | Zone Map No. C12,D12 | Sheet 2 OF 2

P:\$Year-2005\3205\3205-acad\3205-GOLF COURSE RD\Phase 2\3205-acad\3205-AS-BUILTS\AS-BUILTS.dwg, PHASE 2 - SHEET 2, 9/20/2011 3:31:57 PM, atrevizo, ARCHD, 1:1