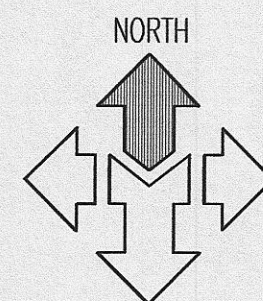
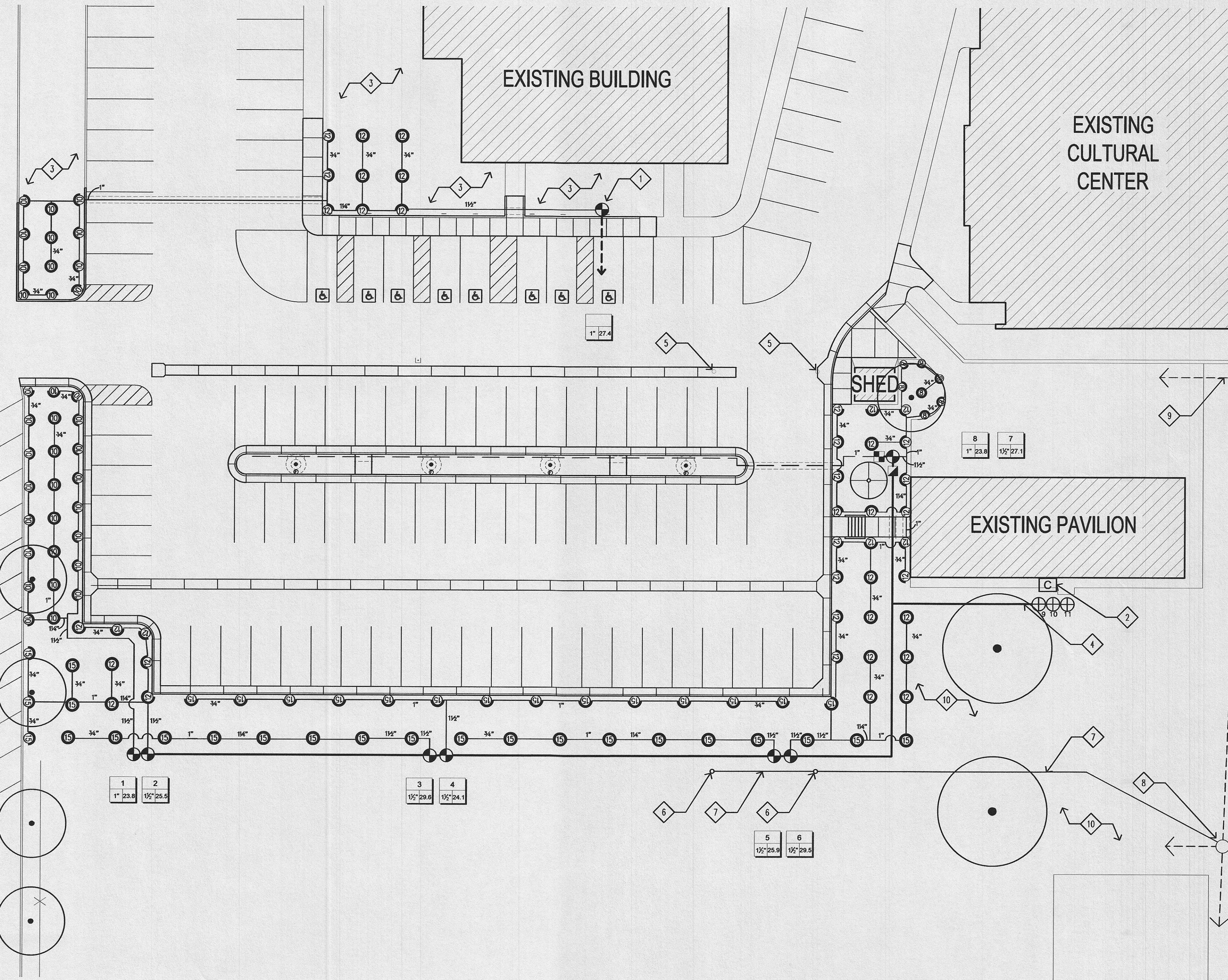


MCNEIL ENGINEERING - CIVIL, L.C. MCNEIL ASPEN CONSULTANTS, L.C. MCNEIL ENGINEERING STRUCTURAL, L.C. MCNEIL ENGINEERING - SURVEYING, L.C.

4100 WEST STREET



IRRIGATION PLAN

SCALE: 1" = 20'-0"

IRRIGATION NOTES

- INSTALL VARIABLE ARC NOZZLES (OF THE SAME SERIES SHOWN ON THE PLAN) ALONG ARCS AND OTHER AREAS WHERE FIXED ARC NOZZLES WON'T WORK PROPERLY AS REQUIRED FOR COMPLETE AND EFFICIENT COVERAGE.
- REMOVE EXISTING CONTROLLER AND RETURN TO OWNER. INSTALL THE NEW CONTROLLER IN THE SAME LOCATION AS EXISTING CONTROLLER. IF NEEDED COORDINATE WITH OWNER AND ELECTRICAL CONTRACTOR FOR POWER SUPPLY AT CONTROLLER LOCATION. ALSO, INSTALL WIRELESS RAIN SENSOR AND ASSOCIATED COMPONENTS COMPLETE WITH PROPER LINK TO CONTROLLER. COORDINATE ACTUAL LOCATION OF RAIN SENSOR WITH OWNER AND OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- MAINTAIN AND PROTECT AS MUCH OF THE EXISTING IRRIGATION SYSTEM AS POSSIBLE AND FEASIBLE THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD TO PRESERVE ALL EXISTING PLANT MATERIAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR TO ENSURE THAT ALL EXISTING PLANT MATERIAL REMAIN IN HEALTHY CONDITION AND TO MAKE ALL THE NECESSARY ACCOMMODATIONS TO ACCOMPLISH THIS. ALL PLANT MATERIAL DEEMED BY THE LANDSCAPE ARCHITECT TO BE DAMAGED SHALL BE REPLACED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- REMOVE AND PROPERLY DISPOSE OF ALL EXISTING IRRIGATION EQUIPMENT THAT IS NOT A PART OF THE NEW SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONTROL VALVES, VALVE BOXES, HEADS, AND OTHER IRRIGATION COMPONENTS AT GRADE. ALL BELOW GRADE ITEMS SUCH AS PIPE AND FITTINGS SHALL REMAIN UNLESS ENCOUNTERED DURING CONSTRUCTION OPERATIONS. DO NOT SALVAGE ANY OF THE EXISTING EQUIPMENT FOR THE NEW IRRIGATION SYSTEM.
- WHERE POSSIBLE, EXISTING TURF SHALL BE CUT WITH CLEAN AND STRAIGHT EDGES AND PRESERVED PROPERLY DURING TRENCHING OPERATIONS. IT MAY BE NECESSARY TO IMPORT SOD AT AREAS WHERE EXISTING TURF IS UNHEALTHY OR WHEN EXISTING TURF THAT HAS BEEN CUT HAS NOT SURVIVED. ALL SOD SHALL BE LAD TIGHTLY TOGETHER SO AS TO PREVENT GAPS AND SHALL BE INSTALLED AT THE PROPER ELEVATION TO BLEND SMOOTHLY WITH ADJACENT GRADES.
- SOME OF THE IRRIGATION EQUIPMENT IS SHOWN WITHIN HARDSCAPE AREAS FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN THE LANDSCAPED AREA.

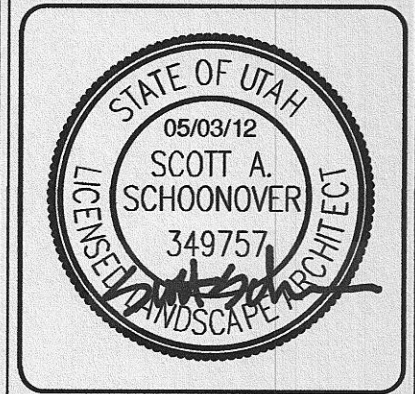
REFERENCE NOTES

- CONNECT NEW CONTROL VALVE TO EXISTING MAINLINE AT THIS POINT (FIELD VERIFY SIZE AND LOCATION). INSTALL EXISTING WIRE TO NEW CONTROL VALVE AS REQUIRED.
- LOCATION OF EXISTING CONTROLLER - SEE IRRIGATION NOTE 2. INSTALL NEW WIRES THROUGH EXISTING CONDUIT AND CONNECT EXISTING WIRES TO NEW CONTROLLER.
- REPAIR ALL EXISTING IRRIGATION COMPONENTS DAMAGED UNDER THIS CONTRACT. ADJUST AND REPLACE SPRAY HEADS AS NEEDED TO ACHIEVE HEAD TO HEAD COVERAGE.
- CONNECT NEW MAINLINE INTO EXISTING MAINLINE (FIELD VERIFY LOCATION AND SIZE).
- EXISTING FLOOD IRRIGATION RISERS TO BE REUSED AND RELOCATED (FIELD VERIFY LOCATION). SEE REFERENCE NOTE 6.
- NEW LOCATION OF EXISTING RISERS. INSTALL AS PER LOCAL IRRIGATION COMPANY'S STANDARDS AND DETAILS.
- NEW PIPE TO MATCH EXISTING SIZE, TYPE AND DEPTH. INSTALL PIPE AS PER LOCAL IRRIGATION COMPANY'S STANDARDS AND DETAILS.
- INSTALL NEW PIPE INTO DIVERSION CULVERT AT THE SAME ELEVATION AS THE EXISTING PIPES. INSTALL PIPE AS PER LOCAL IRRIGATION COMPANY'S STANDARDS AND DETAILS.
- INSTALL A NEW CAP OVER THE EXISTING PIPE ON THE INSIDE OF DIVERSION CULVERT (FIELD VERIFY SIZE).
- REPAIR ALL DAMAGE TO LANDSCAPE AND IRRIGATION SYSTEM BACK TO ORIGINAL CONDITION.

IRRIGATION LEGEND

- RAINBIRD 1804-SAM-PRS POP-UP WITH 15 SERIES PLASTIC NOZZLE @ 30 PSI - SEE DETAILS A&B/L5.02 AND IRRIGATION NOTE 1
 - 15" FULL CIRCLE
 - 15" THREE QUARTER CIRCLE
 - 15" TWO THIRDS CIRCLE
 - 15" HALF CIRCLE
 - 15" THIRD CIRCLE
 - 15" QUARTER CIRCLE
- RAINBIRD 1804-SAM-PRS POP-UP WITH 12 SERIES PLASTIC NOZZLE @ 30 PSI - SEE DETAILS A&B/L5.02 AND IRRIGATION NOTE 1
 - 12" FULL CIRCLE
 - 12" THREE QUARTER CIRCLE
 - 12" TWO THIRDS CIRCLE
 - 12" HALF CIRCLE
 - 12" THIRD CIRCLE
 - 12" QUARTER CIRCLE
- RAINBIRD 1804-SAM-PRS POP-UP WITH 10 SERIES PLASTIC NOZZLE @ 30 PSI - SEE DETAILS A&B/L5.02 AND IRRIGATION NOTE 1
 - 10" FULL CIRCLE
 - 10" HALF CIRCLE
 - 10" THIRD CIRCLE
 - 10" QUARTER CIRCLE
- RAINBIRD 1804-SAM-PRS POP-UP WITH 8 SERIES PLASTIC NOZZLE @ 30 PSI - SEE DETAILS A&B/L5.02 AND IRRIGATION NOTE 1
 - 8" FULL CIRCLE
 - 8" HALF CIRCLE
 - 8" THIRD CIRCLE
 - 8" QUARTER CIRCLE
- RAINBIRD PEB SERIES PLASTIC REMOTE CONTROL VALVE - SEE DETAIL F/L5.02
 - SIZE AS SHOWN
- RAINBIRD KCZ-100-B-COM DRIP SYSTEM CONTROL VALVE - SEE DETAIL H/L5.02
 - 1"
- RAINBIRD 33DRC TWO PIECE QUICK COUPLING VALVE - SEE DETAIL E/L5.02
 - 3/4"
- RAINBIRD ESP MODULAR IRRIGATION CONTROLLER COMPLETE WITH WIRELESS RAIN SENSOR - SEE IRRIGATION NOTE 2
 - 24 STATION
- SCHEDULE 40 PVC MAINLINE - SEE DETAIL C/L5.02
 - 1-1/2"
- SCHEDULE 40 PVC LATERAL LINE - SEE DETAIL C/L5.02
 - SIZE AS SHOWN
- SCHEDULE 40 PVC DRIP SYSTEM SUPPLY LINE (1/2" RIGID POLYPIPE (SALCO) AND EMITTERS NOT SHOWN ON PLAN FOR GRAPHIC CLARITY) - SEE DETAILS E&F/L5.03.
 - 1"
- PVC PIPE/WIRE SLEEVE - SEE DETAIL D/L5.02
 - SIZE AS REQUIRED
- EXISTING VALVES TO REMAIN
 - ⊕
- TREE DRIP RING, METAFIM TECHLINE TLOC9-12 PRESSURE COMPENSATING INLINE EMITTER TUBING - SEE DETAIL A/L5.03
 - 0.9 GPH @ 12" O.C.
- CONTROL VALVE DESIGNATION
 - # - VALVE NUMBER
 - # - VALVE FLOW
 - # - VALVE SIZE

McNEIL GROUP
Designing for the Future Since 1983™
 8610 So. Sandy Parkway, Suite 200 Sandy, Utah 84070
 TEL. (801) 255-7700 FAX (801) 255-8071
 E-MAIL info@mcneileng.com WEB SITE A.T. www.mcneil-group.com



WEST WEBER 1, 2
The Church of Jesus Christ of Latter-Day Saints
 4080 WEST 900 SOUTH
 WEST WEBER, UTAH

REVISIONS	DESCRIPTION
REV	DATE

PROJECT NO:	11358
CAD DWG. FILE:	11358-PLN.dwg
DRAWN BY:	NMD
PROPERTY NO:	502-2681
DESIGNED BY:	BE
FIELD CREW:	RJD
CHECKED BY:	SS
DATE:	MAY 2012

SHEET TITLE
IRRIGATION PLAN

L2.01
 SHEET 14 OF 17

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY.

Call Digs

1-800-662-4111

NOTICE:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.