

NOTES:

1. UNTREATED BASE COURSE:
PROVIDE MATERIAL AS PER
SPECIFICATIONS. DO NOT USE
GRAVEL OR SEWER ROCK.
PLACE AS PER SPECIFICATIONS.
COMPACT AS STATED IN
SPECIFICATIONS TO A MODIFIED
PROCTOR DENSITY OF 95 PERCENT

OR GREATER.

MAXIMUM LIFT THICKNESS IS
8-INCHES BEFORE COMPACTION.

2. CONCRETE: SIDEWALKS SHALL BE CONSTRUCTED OF 4000 PSI CONCRETE AND BE A MINIMUM OF 6 INCHES THICK. PLACE PER SPECIFICATIONS.

A. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7

DAYS. USE CAUTION, HOWEVER AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES B. UNLESS SHOWN OTHERWISE, PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.

3. EXPANSION JOINTS: FULL DEPTH 1/2 INCH THICK TYPE F1 JOINT FILLER MATERIAL PER SPECIFICATIONS. SET TOP OF FILLER FLUSH WITH SURFACE FOR CONCRETE. PLACE JOINTS TO MATCH EXPANSION JOINT LOCATIONS IN SIDEWALK.

4. CONTRACTION JOINTS: MAKE
CONTRACTION JOINTS VERTICAL.
A. MAKE JOINTS AT LEAST 1/8 INCH
WIDE AND 1 INCH
DEEP OR 1/4 SLAB THICKNESS IF
THE SLAB IS GREATER THAN 4

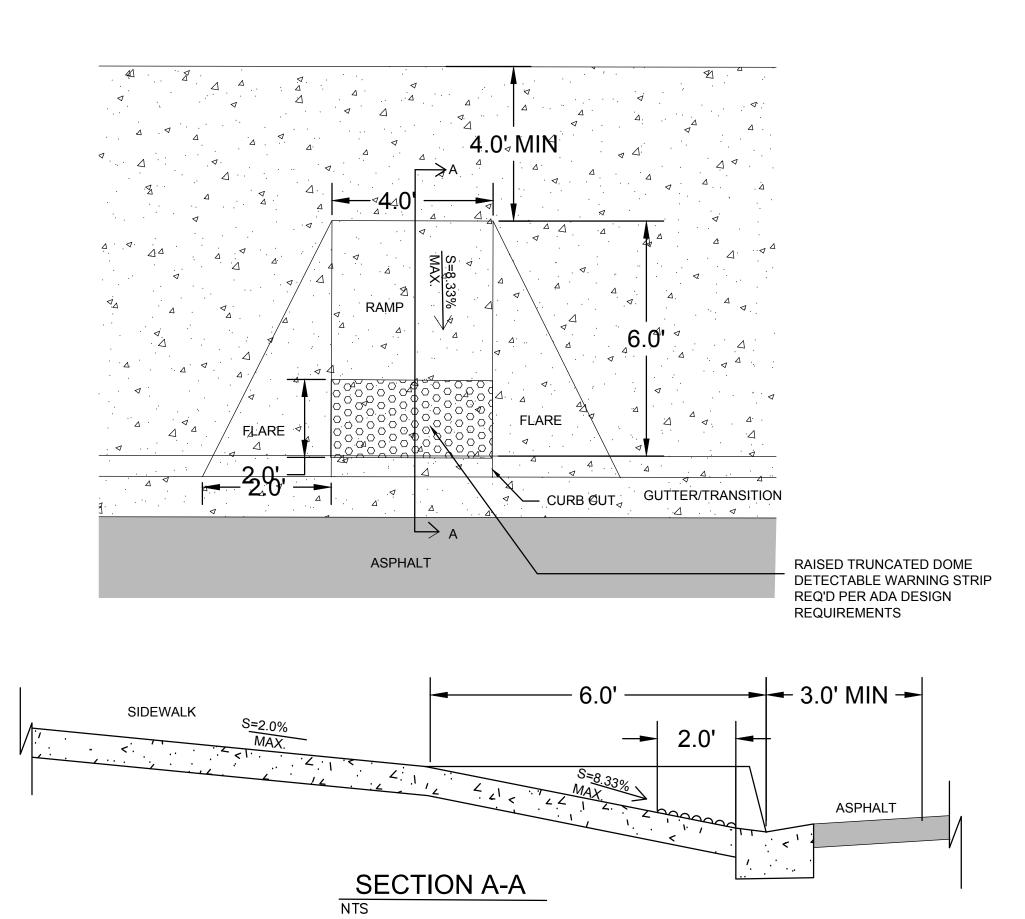
INCHES THICK.

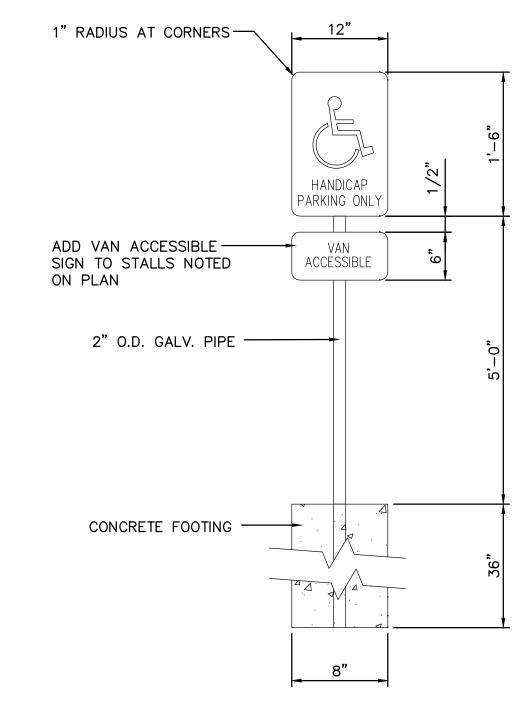
B. PROVIDE A 1/2 INCH RADIUS
TOOLED UP

C. MAXIMUM LENGTH TO WIDTH RATIO FOR NON SQUARE PANELS IS 1.5 TO 1.
D. MAXIMUM PANEL LENGTH IS 15

Concrete Sidewalk Detail

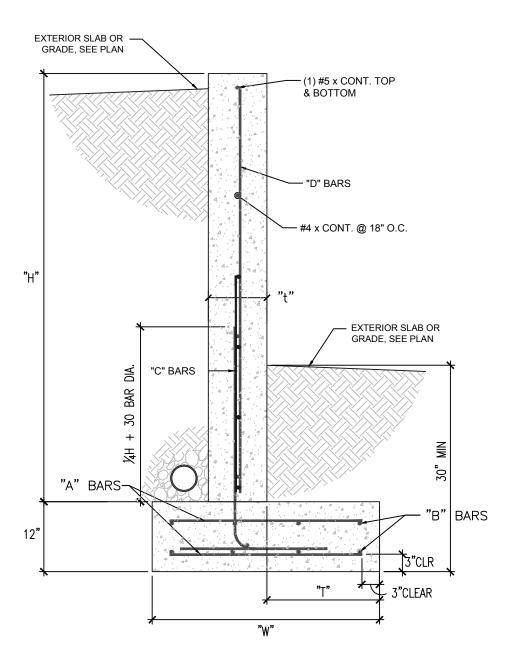
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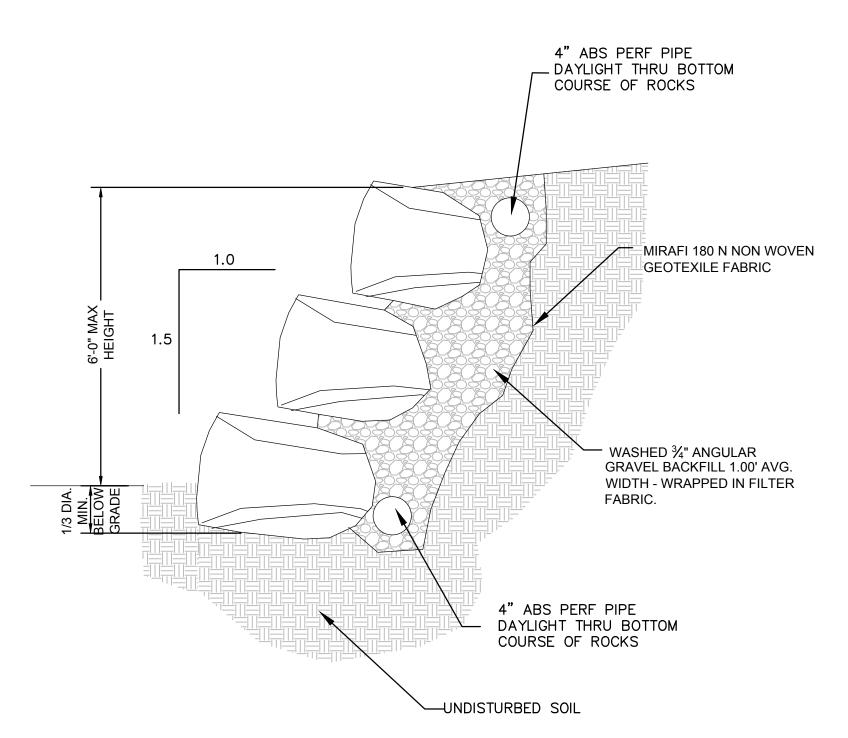




f'c=3,000 psi Fy=60,000 psi				RETAINING WALL SCHEDULE PRESSURE=1,500 psf			
"H"	"t"	"W"	"T"	"A" BARS	"B" BARS	"C" BARS	"D" BARS
4'-0"	8"	2'-0"	0'-9"	NA	(2)#4	#4@18" O.C	#4@18" O.C
6'-0"	8"	3'-3"	1'-6"	NA	(3)#4	#5@18" O.C	#4@18" O.C
8'-0"	8"	4'-6"	2'-0"	#4@18" O.C	(4)#4	#5@9" O.C	#4@18" O.C

RETAINING WALL DETAIL

NTS



**5** Boulder Retaining Wall Detail

CHECKED BY -

C403

Colony

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CONSULTANT

OWNER

Lehi City Corporation 153 North 100 East Lehi, Utah 84043

PROJECT TITLE

Shadow Ridge Park

| SHEET TITLE

**DETAILS** 

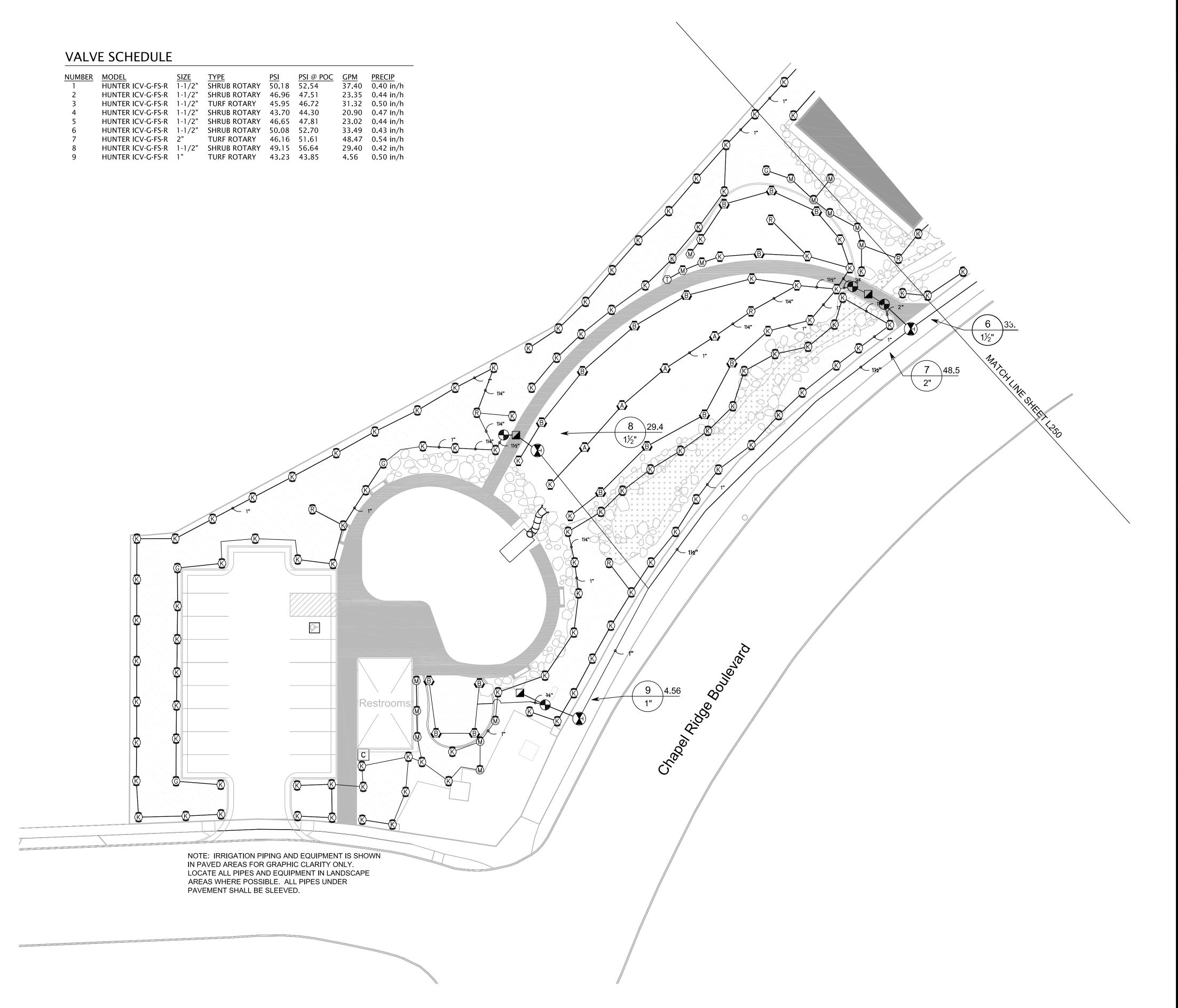
REVISIONS

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MARK | DATE | DESCRIPTION

ISSUE DATE 27 MAR 2014
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SCALE AS NOTED

LC-TP



<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	PSI
₩Φ	HUNTER MP1000 PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40
K©R	HUNTER MP2000 PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40
<b>₿</b> �� <b></b>	HUNTER MP3000 PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.	40
T	HUNTER MP CORNER PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.	40
<b>M</b> 0	HUNTER MP1000 PROS-12-CV-R SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.	40
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<u>SYMBOL</u>	MANUFACTURER/MODEL/DESCRIPTION	
	HUNTER ICV-G-FS-R 1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION, AND	

FILTER SENTRY FACTORY INSTALLED OPTION, AND RECLAIMED WATER ID, PURPLE HANDLE.

QUICK COUPLER VALVE, PURPLE RUBBER LOCKING COVER FOR RECLAIMED WATER USE. RED BRASS AND STAINLESS STEEL, WITH 1" NPT INLET, 2-PIECE BODY. ACME KEY WITH ANTI-ROTATION WINGS.

HUNTER HQ-44LRC-AW-R

NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"

WEATHERTRAK ET PRO3 - WTPRO3-C-12-SPH WEATHER TRAK PRO3 SERIES CONTROLLER, 12 STATION, HEAVY DUTY STAINLESS ENCLOSURE, GROUNDED PER MANUFACTURERS RECOMENDATION, INCLUDE REMOTE CONTROL, ONE YEAR SUBSCRIPTION TO WEATHERTRAK SERVICE, INCLUDE WEATHERTRAK FLOW LINK SYSTEM (WTFL-ST). CONTRACTOR TO VERIFY COMMUNICATION AND CONTROLLER COMPONENTS WITH LEHI CITY STAFF PRIOR TO PURCHASE.

**HUNTER HFS-208** FLOW SENSOR FOR USE WITH ACC CONTROLLER, 2" SCHEDULE 80 SENSOR BODY, 24 VAC, 2 AMP.

AMIAD M102C AUTOMATIC SELF CLEANING FILTER AUTOMATIC FILTER WITH STRONG BOX ENCLOSURE MODEL SBBC-40ALHP

P.O.C. POINT OF CONNECTION 2"

IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.

> IRRIGATION MAINLINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE. **Valve Callout**

— Valve Number – Valve Size

FS



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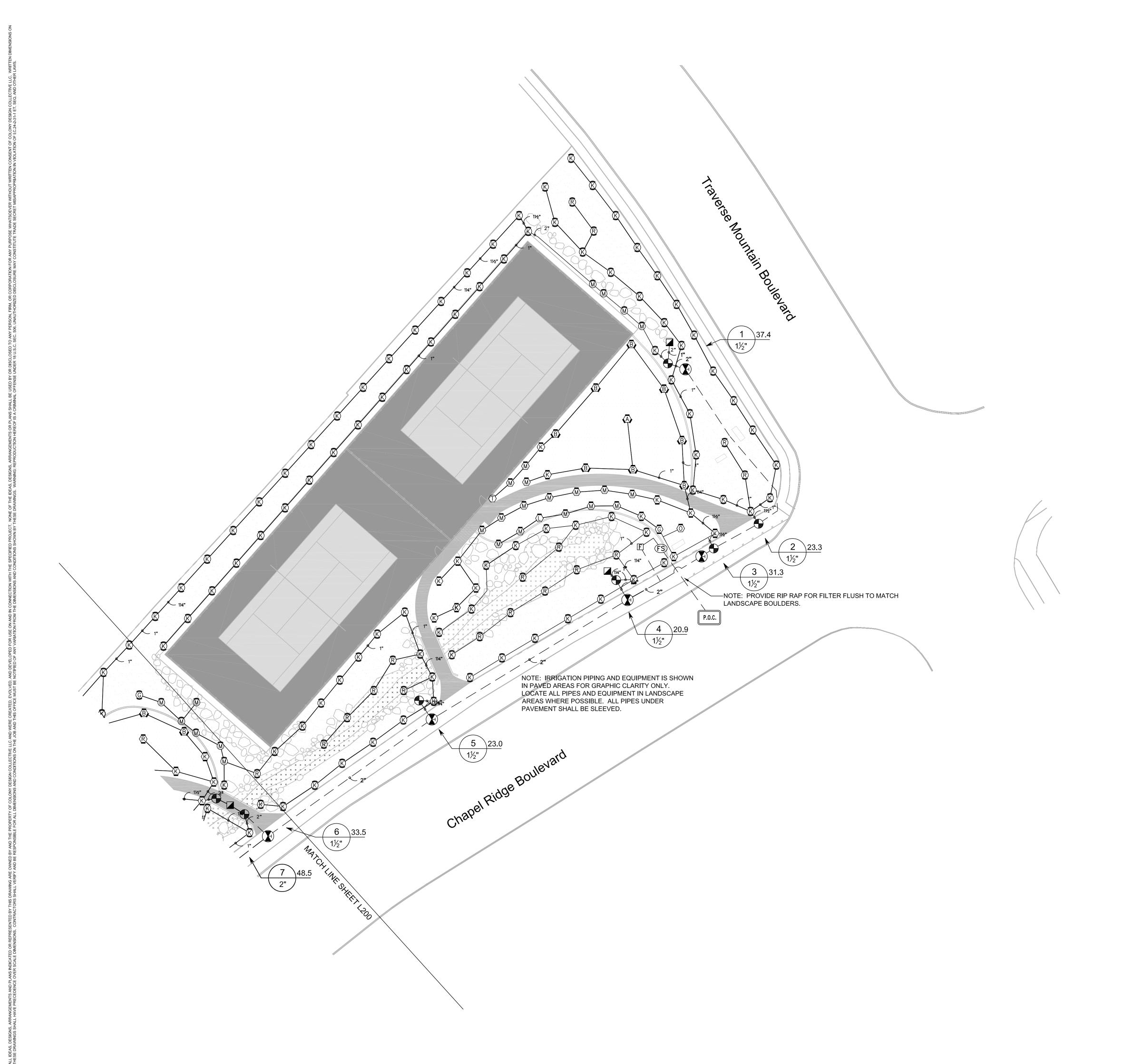
| SHEET TITLE IRRIGATION PLAN

| REVISIONS

| MARK | DATE | DESCRIPTION

ISSUE DATE 27 MAR 14 ISSUE TITLE 100% CD SCALE AS NOTED DRAWN BY EJS CHECKED BY PJB

> LC-TP L500



## IRRIGATION SCHEDULE

MANUFACTURER/MODEL/DESCRIPTION HUNTER MP1000 PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY.

M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.

HUNTER MP2000 PROS-06-CV-R

TURF ROTATOR, 6" (15.24 CM) POP-UP WITH CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270,

R=RED 360 ARC.

HUNTER MP3000 PROS-06-CV-R 40 TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210,

Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.

HUNTER MP CORNER PROS-06-CV-R TURF ROTATOR, 6" (15.24 CM) POP-UP WITH FACTORY INSTALLED CHECK VALVE, RECLAIMED BODY CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE ON PRS40 BODY. T=TURQUOISE ADJ ARC 45-105.

HUNTER MP1000 PROS-12-CV-R

SHRUB ROTATOR, 12" (30.48 CM) POP-UP WITH CHECK VALVE, PURPLE CAP, PRESSURE REGULATED TO 40 PSI (2.76 BAR), MP ROTATOR NOZZLE. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC ON PRS40 BODY.

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<u>SYMBOL</u> MANUFACTURER/MODEL/DESCRIPTION

HUNTER ICV-G-FS-R

1", 1-1/2", 2", AND 3" PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION, AND RECLAIMED WATER ID, PURPLE HANDLE.

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CONTROL. ONE YEAR SUBSCRIPTION TO WEATHERTRAK (WTFL-ST). CONTRACTOR TO VERIFY COMMUNICATION AND CONTROLLER COMPONENTS WITH LEHI CITY STAFF PRIOR TO PURCHASE.

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IRRIGATION MAINLINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE. Valve Callout

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IRRIGATION PLAN

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SECTION 32 8400 - PLANTING IRRIGATION
PART 1 GENERAL
1.1 SUMMARY
    A. SECTION INCLUDES:
     1. IRRIGATION SYSTEM: SPRINKLER SYSTEM
   B. RELATED SECTIONS:
     1. SECTION 32 9000 - PLANTING
1.2 REFERENCES
   A. AMERICAN SOCIETY OF TESTING MATERIALS (ASTM):
     1. D1784 RIGID POLY (VINYL CHLORIDE) (PVC) COMPOUNDS AND CHLORINATED POLY (VINYL CHLORIDE) (CPVC) COMPOUNDS
     2. D2241 POLY (VINYL CHLORIDE) (PVC) PRESSURE_RATED PIPE (SDR SERIES)
     3. D2466 POLY (VINYL CHLORIDE) (PVC) PLASTIC PIPE FITTINGS, SCHEDULE 40
   B. AMERICAN WELDING SOCIETY (AWS)
     1. D1.1 "STRUCTURAL WELDING CODE - STEEL"
1.3 DEFINITIONS
    A.CIRCUIT PIPING: DOWNSTREAM FROM CONTROL VALVES TO SPRINKLERS, SPECIALTIES, AND DRAIN VALVES. PIPING IS UNDER
     PRESSURE DURING FLOW.
    B. DRAIN PIPING: DOWNSTREAM FROM CIRCUIT-PIPING DRAIN VALVES. PIPING IS NOT UNDER PRESSURE.
    C.PRESSURE PIPING: DOWNSTREAM FROM POINT OF CONNECTION TO WATER DISTRIBUTION PIPING TO AND INCLUDING CONTROL VALVES.
     PIPING IS UNDER WATER DISTRIBUTION SYSTEM PRESSURE.
   D. THE FOLLOWING ARE INDUSTRY ABBREVIATIONS FOR PLASTIC MATERIALS:
     1. PVC: POLYVINYL CHLORIDE PLASTIC
1.4 SYSTEM DESCRIPTION
    A.ALL IRRIGATION SYSTEMS TO BE FURNISHED AND INSTALLED AS A SUBCONTRACT TO SECTION 32 9000 - PLANTING.
   B. DESIGN REQUIREMENTS FOR LAWN SPRINKLER SYSTEM:
     1. PROVIDE 100% COVERAGE AS DESCRIBED IN DESIGN GUIDELINE STANDARDS, UNLESS OTHERWISE SPECIFIED HEREIN. LAYOUT
       PORTIONS OF IRRIGATION SYSTEM NOT INDICATED ON DRAWINGS TO MEET SPECIFIED COVERAGE IN COMPLIANCE WITH LOCAL
     2. PROVIDE COMPLETE IRRIGATION SYSTEM INCLUDING TRENCHING AND BACKFILLING FOR ALL PIPES, VALUES AND DRAIN PITS,
       PROVIDING MAINS, LATERALS, RISERS, FITTINGS, SPRINKLER HEADS, VALUES, CONTROLLERS, ELECTRIC WIRING, AND NECESSARY
       SPECIALTIES AND ACCESSORIES.
     3. PROVIDE SLEEVES BENEATH WALKWAYS, AND DRIVEWAYS WHERE REQUIRED.
      4. REGULATE AND ADJUST SPRINKLER HEADS, TIMED SEQUENCE CONTROL DEVICES, SECTIONAL VALVES AND RAIN OVERRIDER.
     5. EACH ZONE SHALL BE COMPRISED OF APPROXIMATELY EQUAL WATER DEMAND. PRESSURE SHALL BE SUCH THAT VELOCITY WILL NOT
     6. ALL SPRINKLER HEADS WITHIN A SINGLE ZONE SHALL HAVE THE SAME PRECIPITATION RATE.
      7. PROVIDE 100 PERCENT COVERAGE BY LOCATING HEADS AS RECOMMENDED BY THE MANUFACTURER. PROPER OVERLAP SHALL
       PREVENT "SCALLOPING". AVOID THROW OVER WALKS, DRIVES OR BUILDINGS.
     8. LOCATE HEADS DISCRETELY USING RISERS ONLY IN SHRUB BEDS.
     9. HEADS ADJACENT TO PAVEMENT SHALL BE INSTALLED ON SWING JOINTS.
     10. CONSIDER ALL PLANT HEIGHTS AND GRADE CHANGES IN DESIGN AND INSTALLATION OF THE IRRIGATION SYSTEM.
1.5 SUBMITTALS
    A.PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA WITH INSTALLATION AND STORAGE INSTRUCTIONS FOR EACH PRODUCT
   A.SHOP DRAWINGS:
      1. IRRIGATION SYSTEM:
       a. INDICATE LOCATION OF IRRIGATION HEADS TO MATCH SPECIFIED WATER COVERAGE. INDICATE VALVES, PIPING AND ACCESSORIES,
         SHOW DESIGN PRESSURE, VALVE SIZE, PIPE SIZE, GPM REQUIREMENTS, DRAINS VALVES, AND SLEEVES.
       b. SHOW LOCATION AND SIZE OF CITY/COUNTY MAIN, SIZE OF TAP TO BE MADE, WATER METER LOCATION, AND BACKFLOW
        PREVENTION SIZE AND LOCATION.
    B. CLOSEOUT SUBMITTALS __ IRRIGATION SYSTEM: SECTION 01 7000 __ CONTRACT CLOSEOUT.
      1. OPERATING AND MAINTENANCE INSTRUCTIONS: PROVIDE TWO COPIES INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF SYSTEM
       AND CONTROLS, SEASONAL ACTIVATION AND SHUTDOWN, AND MANUFACTURER'S PARTS CATALOG.
       a. INCLUDE WINTERIZATION PROCEDURES.
       b. INDICATE LENGTH OF TIME EACH VALVE IS TO BE OPEN TO PRODUCE A GIVEN AMOUNT OF WATER DELIVERY.
   D. RECORD DRAWINGS
      1. INDICATE LOCATIONS, SIZES AND KINDS OF EQUIPMENT INSTALLED.
     2. DIMENSION FROM 2 PERMANENT POINTS OF REFERENCE (BUILDING CORNERS, SIDEWALK, OR ROAD INTERSECTIONS, ETC.) THE
       LOCATION OF THE FOLLOWING ITEMS:
       a. CONNECTION TO WATER LINES.
       b. CONNECTION TO ELECTRICAL POWER.
       c. GATE VALVES.
       d. ROUTING OF SPRINKLER PRESSURE LINES (DIMENSION MAX. 100' ALONG ROUTING)
       e, SIGNIFICANT CHANGES IN ROUTING OF LATERAL LINES FROM THOSE INDICATED ON DRAWINGS.
       f. SPRINKLER CONTROL VALVES
       g. ROUTING OF CONTROL WIRING
       h. YARD HYDRANTS AND QUICK COUPLING VALVES
     3. CONTROLLER CHARTS:
       a. RECORD DRAWINGS SHALL BE APPROVED BY THE OWNER BEFORE CONTROLLER CHARTS ARE PREPARED.
       b. SUBMIT 1 CONTROLLER CHART FOR EACH CONTROLLER.
       c. SHOW THE AREA CONTROLLED BY THE AUTOMATIC CONTROLLER. IT SHALL BE THE MAXIMUM SIZE WHICH THE CONTROLLER
         ENCLOSURE DOOR WILL ALLOW.
       d. THE CHART SHALL BE A REDUCED DRAWING OF THE ACTUAL AS BUILT SYSTEM. IF CONTROLLER SEQUENCE IS NOT LEGIBLE WHEN
         THE DRAWING IS REDUCED, ENLARGED SIZE THAT WILL BE READABLE WHEN REDUCED.
             USE A DIFFERENT COLOR TO INDICATE THE AREA OF COVERAGE FOR EACH STATION.
             WHEN APPROVED, HERMETICALLY SEAL CHART BETWEEN 2 PIECES OF PLASTIC AND SECURELY MOUNT TO CONTROLLER
          ENCLOSURE
1.6 QUALITY ASSURANCE
    A.ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING
     AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
     . COMPLY WITH REQUIREMENTS OF UTILITY SUPPLYING WATER AND AUTHORITIES HAVING JURISDICTION FOR PREVENTING BACKFLOW
     AND BACK SIPHONAGE.
    C,COMPLY WITH ASTM F645, ... GUIDE FOR SELECTION, DESIGN, AND INSTALLATION OF THERMOPLASTIC WATER PRESSURE PIPING
   D. COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE, FOR ELECTRICAL CONNECTIONS BETWEEN WIRING AND ELECTRICALLY
     OPERATED DEVICES.
1.7 PROJECT CONDITIONS
    A.EXISTING UTILITIES:
     1. BE RESPONSIBLE FOR LOCATING AND IDENTIFYING EXISTING UTILITIES. NOTIFY OWNER OF ANY CONFLICTS WHICH AFFECT THE
       APPROVED IRRIGATION LAYOUT
    B. OBSTRUCTIONS BELOW GRADE:
     1. IF OBSTRUCTIONS SUCH AS ROCK OR UNDERGROUND CONSTRUCTION WORK ARE ENCOUNTERED IN ANY IRRIGATION EXCAVATION
       WORK, ALTERNATE LOCATIONS WILL BE SELECTED. WHERE LOCATIONS CANNOT BE CHANGED, REMOVE OBSTRUCTION. THE
       OBSTRUCTION SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN 3 FEET BELOW GRADE.
     1. BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, PLANTS, WALKS, ROADS, BUILDING PIPING SYSTEM, ELECTRICAL SYSTEMS, AND
       THEIR EQUIPMENT AND CONTENTS CAUSED BY LEAKS IN PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED.
     1. BE RESPONSIBLE FOR LOCATION STAKING. IRRIGATION HEAD LOCATIONS SHALL BE DETERMINED BY CALCULATING DIMENSIONS FROM
       APPROVED SHOP DRAWINGS. ADJUSTMENTS MAY BE NECESSARY TO AVOID INTERFERENCE WITH UNDERGROUND OBSTRUCTIONS.
    A.COORDINATE SPRINKLER PIPING WITH WORK SPECIFIED IN DIVISION 02 SECTION , LANDSCAPING.
   B. COORDINATE SPRINKLER PIPING WITH UTILITY WORK.
1.9 WARRANTY
   A.MATERIALS AND EQUIPMENT SHALL BE WARRANTED BY THE RESPECTIVE MANUFACTURERS.
   B. REPAIR ANY SETTLING OF BACKFIELD TRENCHES WHICH MAY OCCUR DURING THE WARRANTY PERIOD.
    C.RESTORE DAMAGED PLANTINGS, PAVING, OR IMPROVEMENTS RESULTING FROM FAULTY IRRIGATION SYSTEM WITHIN THE WARRANTY
1.10 EXTRA MATERIALS
   A.FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE
     COVERING FOR STORAGE WITH LABELS DESCRIBING CONTENTS. DELIVER EXTRA MATERIALS TO THE OWNER.
     1. REFER TO SECTION 01 7843.
1.11 MAINTENANCE TOOLS
   A.REFER TO SECTION 01 7843.
PART 2 PRODUCTS
2.1 MANUFACTURERS
   A.UNLESS NOTED OTHERWISE, PROVIDE PRODUCTS BY THE FOLLOWING:
     1. APPROVED MANUFACTURERS:
       a. RAIN BIRD CORPORATION (520-741-6100)
       b. HUNTER INDUSTRIES, INC. (800-476-0260)
       c. APPROVED SUBSTITUTION
2.2 PIPE AND PIPE FITTINGS
    A.IRRIGATION MAINS:
     1. PIPE: ASTM D1784, PVC CLASS_200, SDR_21, 260 PSI MAXIMUM.
     2. JOINT: ASTM D2241 BELL END TYPE.
     3. FITTINGS: SCHEDULE 40, ASTM D2466 SOLVENT CEMENT TYPE.
   B. ZONE LATERAL LINES:
     1. PIPE: ASTM D1784, PVC CLASS_200, SDR_21.
     2. JOINTS: ASTM D2241 BELL END.
     3. FITTINGS: ASTM D2466 SOCKETTYPE
   C.PIPE SHALL BE MARKED CONTINUOUSLY AND PERMANENTLY WITH THE FOLLOWING INFORMATION: MANUFACTURER'S NAME, NOMINAL
     PIPE SIZE, CLASS OR SCHEDULE, AND NSF APPROVAL, AND TYPE OF PIPE.
     1. 3 INCH AND LARGER: IRON BODY, NON RISING STEM, THREADED ENDS.
     2. 2 1/2 INCH AND SMALLER: TYPE 1, CLASS 150 PSI, THREADED ENDS.
   B. STATION CONTROL VALVES:
     1. VALVE TYPE: REMOTE CONTROL VALVES.
       a. "ESP SERIES"; RAIN BIRD CORPORATION (520-741-6100)
       b., PGV SERIES, ; HUNTER INDUSTRIES, INC. (800-476-0260)
2.4 SPRINKLER HEADS
    A.SMALL AREA HEADS (FOR USE IN SMALL LAWN/SHRUB AREAS):
     1. EACH HEAD SHALL HAVE AN INTERCHANGEABLE NOZZLE (AVAILABLE IN DIFFERENT PATTERNS AND DISTANCES OF THROW)
     2. EACH HEAD SHALL HAVE A BASKET SCREEN.
      3. PROVIDE PRESSURE COMPENSATING SCREENS (P.C.S.) AS INDICATED ON DRAWINGS.
       a. SMALL AREA HEADS:
        1), MP SERIES, ; HUNTER INDUSTRIES, INC. (800-476-0260)
2.5 AUTOMATIC CONTROLLERS
    A.PRODUCT:
     1. PER DRAWINGS. RAIN BIRD CORPORATION (520-741-6100)
     2. PER DRAWINGS. HUNTER INDUSTRIES, INC. (800-476-0260)
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B. STATIONS: CONTROL STATIONS AS SHOWN ON SHOP DRAWINGS.

D.DAY PROGRAMMING: PROGRAMMING DIALS ENCOMPASSING 14 DAY CYCLE.

C.STATION TIMING: INDEPENDENT FOR EACH STATION WITH EACH INFINITELY ADJUSTABLE FROM 0 TO 60 MINUTES.

E. OPERATION: CAPABLE OF AUTOMATIC, SEMI AUTOMATIC OR MANUAL FUNCTION AS SELECTED BY OPERATOR.

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F. POWER REQUIREMENTS:
      1. INPUT: 115 VOLT AC.
     2. OUTPUT TO VALVES: 24 VOLTS AC.
   G.PROVIDE RESET CIRCUIT BREAKER FOR OVERCURRENT PROTECTION.
   H.PROVIDE MASTER MANUAL ON_OFF SWITCH.
2.7 VALVE BOXES
   A. APPROVED MANUFACTURERS:
     1. ARMORCAST PRODUCTS COMPANY (818-982-3600)
     2. CARSON INDUSTRIES LLC (800-735-5566)
     3. NATIONWIDE PLASTICS, INC. (800-782-1836)
     4. OLDCASTLE, INC. (800-899-8455)
     5. USFILTER/PLYMOUTH PRODUCTS, INC. (800-348-7558)
   B. DESCRIPTION: BOX AND COVER, WITH OPEN BOTTOM AND OPENINGS FOR PIPING; DESIGNED FOR INSTALLING FLUSH WITH GRADE.
     1. SIZE: AS REQUIRED FOR VALVES AND SERVICE.
     2. SHAPE: SQUARE.
      3. SIDEWALL MATERIAL: PE, ABS, OR FRP.
     4. COVER MATERIAL: PE. ABS, OR FRP.
     5. LETTERING: "IRRIGATION...
      6. PAINT BOX COVERS MATTE BLACK WITH PAINT SPECIFIED IN SECTION 09 9000 _ PAINTING.
   A,SCHEDULE 40 PIPE WITH INSERT TO MALE THREAD COMBINATION ELBOWS. THE SWING JOINT SHALL ALLOW FAR PRECISE ADJUSTMENTS
     OF EACH HEAD TO GRADE AS WELL AS PROTECTING BOTH THE HEAD AND THE PIPE FROM DAMAGE IF STRUCK BY UNUSUAL FORCE.
   A.#14 AWG SOLID COPPER, SINGLE CONDUCTOR RATED "U.F." WITH "U.L." LISTING, WITH 600 VOLT PVC INSULATION. MAKE SPLICES WITH
      WIRE NUTS AND TOTALLY ENCASED IN DBY DIRECT BURIAL SPLICE KITS.
2.10 QUICK COUPLING VALVES
   A.MOUNT QUICK COUPLING VALVES ON 3/4 INCH GALVANIZED TRIPLE SWING JOINTS. SWING JOINTS SHALL BE ASSEMBLED USING TWO TO
      THREE WRAPS OF TEFLON TAPE. FURNISH THREE QUICK COUPLING KEYS AND THREE 3/4 INCH HOSE SWIVELS.
   B. APPROVED MANUFACTURERS:
        MODEL 3RC.; RAIN BIRD CORPORATION (520-741-6100)
        HQ QUICK-COUPLING; ; INDUSTRIES, INC. (800-476-0260)
       3. APPROVED SUBSTITUTION
PART 3 EXECUTION
3.1 INSTALLATION
     1. LAYOUT AND STAKE LOCATIONS OF SYSTEM COMPONENTS.
     2. REVIEW LAYOUT REQUIREMENTS WITH OTHER AFFECTED WORK. COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO
       ACCOMMODATE SYSTEM.
   B. SEQUENCING:
     1. INSTALL SLEEVES UNDER ROADS & PAVEMENT PRIOR TO COMMENCEMENT OF PAVING.
     2. INSTALL SPRINKLER SYSTEM AFTER COMPLETION OF SITE GRADING.
   C.MINIMUM COVER BELOW FINISHED GRADE:
     1. ZONE LATERAL PIPE: NOT LESS THAN 12 INCHES.
     2. MAINS: NOT LESS THAN 24 INCHES.
   D. CLEARANCE HORIZONTALLY BETWEEN LINES:
     1. PIPE 2 INCHES AND SMALLER: 4 INCHES.
     2. PIPE 2 1/2 INCHES AND LARGER: 12 INCHES.
      3. OTHER SERVICES: 12 INCHES.
    E. MAINTAIN A MINIMUM 1 INCH VERTICAL CLEARANCE BETWEEN LINES CROSSING AT AN ANGLE GREATER THAN 45 DEGREES.
   F. TRENCH WIDTH: NOT LESS THAN 6 INCHES.
   G.INSTALL UNDERGROUND PIPING SO THAT IT IS NOT IN CONTACT WITH CONCRETE, EXISTING PIPING OR OTHER HARD OBJECTS. PROVIDE
     A MINIMUM CLEARANCE OF 2 INCHES BETWEEN PIPING AND HARD OBJECT.
   H. THRUST BLOCKS: CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON THE THRUST SIDE OF MAINS.
   I. BACKFILL: SECTION 31 2000 - EARTH MOVING.
      1. MATERIAL SHALL NOT CONTAIN BRICK, ROCK, LUMBER OR ORGANIC MATERIALS SUBJECT TO DECOMPOSING.
     2. TRENCHES, AFTER BACKFILLING, SHALL BE WATER FILLED AND SETTLED TO PREVENT AFTERSETTLING.
      LEVEL WITH FINISHED GRADE
     4. AFTER BACKFILLING AND WATER SETTLING, SOIL, AROUND POP_UP HEADS SHALL BE TAMPED AND HEADS LEFT LEVEL WITH GRADE
       AND PLUMB.
    J. PIPING INSTALLATION:
      1. INSTALL PLASTIC PIPE IN A MANNER TO PROVIDE FOR EXPANSION AND CONTRACTION.
     2. CUT PLASTIC PIPE WITH A HAND SAW. ENSURE A SQUARE CUT. REMOVE BURRS AT CUT ENDS PRIOR TO INSTALLATION.
      3. PLASTIC TO PLASTIC JOINTS SHALL BE SOLVENT_WELDED. SOLVENT COMPATIBLE WITH PIPE AND ABLE TO WITHSTAND SPECIFIED
       PRESSURE REQUIREMENTS.
     4. SOLVENT WELDED JOINTS:
       a. THOROUGHLY CLEAN PIPE AND FITTING WITH ALL PURPOSE PRIMER/CLEANER AND CLEAN DRY CLOTH.
       b. APPLY A UNIFORM COAT OF SOLVENT TO THE OUTSIDE OF THE PIPE.
       c. APPLY SOLVENT TO THE FITTING.
       d. RE_APPLY A LIGHT COAT OF SOLVENT TO THE PIPE AND QUICKLY INSERT INTO THE FITTING.
       e. GIVE THE PIPE OR FITTING A QUARTER TURN TO ENSURE EVEN DISTRIBUTION OF THE SOLVENT AND MAKE SURE THE PIPE IS
         INSERTED TO THE FULL DEPTH OF THE FITTING SOCKET.
       f. HOLD IN POSITION FOR 15 SECONDS.
       g. WIPE OFF EXCESS SOLVENT THAT APPEARS AT THE OUTER SHOULDER OF THE FITTING.
       h. ALLOW JOINTS TO SET AT LEAST 24 HOURS BEFORE PRESSURE IS APPLIED TO THE SYSTEM.
      1. MANUAL VALVES: INSTALL MANUAL VALVES IN A VALVE BOX EXTENDING FROM GRADE TO VALVE BODY, WITH MINIMUM OF 4 INCH
       COVER MEASURED FROM GRADE TO TOP OF VALVE STEM.
     2. AUTOMATIC VALVES:
       a. INSTALL AUTOMATIC VALVES PLUMB TO WITHIN 1/16 INCH, IN A VALVE BOX EXTENDING FROM GRADE TO VALVE BODY, WITH MINIMUM
        OF 4 INCH COVER MEASURED FROM GRADE TO TOP OF VALVE STEM.
         . AUTOMATIC VALVES INSTALLED UNDER SPRINKLER HEADS MAY BE INSTALLED WITHOUT VALVE BOX.
       c. AUTOMATIC DRAINS VALVES: LOCATE DOWNSTREAM OF EACH CONTROL VALVE AT THE LOW POINT.
   L. SPRINKLERS AND QUICK COUPLER:
      1. INSTALL PLUMB TO WITHIN 1/16 INCH.
     2. HEADS AT WALKS AND CURBS: SET FLUSH TO WITHIN 1/8 INCH.
     3. LOWER SPRINKLER HEADS TO FINISHED GRADE AFTER LAWN HAS BECOME ESTABLISHED AND HAS SETTLED.
   M.CONTROL WIRE:
     1. BURY WIRES TAPED TO SIDE OF PIPE IN SAME TRENCH.
     2. BUNDLE MULTIPLE WIRES AND TAPE TOGETHER MAXIMUM 10 FEET ON CENTER.
      3. PROVIDE A 10 INCH LOOP IN WIRE AT EACH VALVE WHERE CONTROLS ARE CONNECTED.
     4. PROVIDE 10 INCH LOOP IN WIRES AT NOT OVER 100 FOOT INTERVALS.
     5. MAKE ELECTRICAL SPLICES WATERPROOF.
   N. AUTOMATIC CONTROLLER: MOUNT ON REAR OF LANDSCAPE MAINTENANCE BUILDING IN ACCORDANCE WITH MANUFACTURER'S
     RECOMMENDATIONS.
   O.INTERFACE WITH OTHER WORK:
     1. LOCATE AND COORDINATE IRRIGATED SYSTEM WORK WITH UNDERGROUND UTILITIES.
     2. COORDINATE IRRIGATION SYSTEM WORK WITH LANDSCAPING WORK.
     3. COORDINATE IRRIGATION SYSTEM SLEEVE INSTALLATION WITH CURBING AND PAVEMENT WORK.
3.2 FIELD QUALITY CONTROL
     1. DO NOT CLOSE OR COVER ANY WORK UNTIL IT HAS BEEN OBSERVED, TESTED AND ACCEPTED BY THE OWNER.
     2. INSPECTION SCHEDULE:
       a. NOTIFY OWNER 48 HOURS IN ADVANCE FOR:
              PRE JOB CONFERENCE.
              TRENCHING.
              PRESSURE SUPPLY LINE INSTALLATION AND TESTING.
              LATERAL LINE AND ELECTRICAL VALVES.
              COVERAGE TESTS.
              PRE MAINTENANCE AND FINAL INSPECTION.
       b. DO NOT BACKFILL UNTIL INSPECTIONS AND TESTING HAVE BEEN COMPLETED AND APPROVED BY THE OWNER.
       c. PROVIDE RECORD DRAWINGS BEFORE FINAL INSPECTION.
   B. TESTING AND FLUSHING:
     1. FLUSHING:
       a. AFTER ALL PIPING, RISERS, AND VALVES ARE IN PLACE AND CONNECTED, BUT PRIOR TO INSTALLATION OF SPRINKLER HEADS, YARD
         HYDRANT ASSEMBLIES, AND HOSE VALVES, THOROUGHLY FLUSH PIPING SYSTEM UNDER A FULL HEAD OF WATER.
       b. MAINTAIN FLUSHING FOR 3 MINUTES THOUGH FURTHERMOST VALVE.
       c. AFTER FLUSHING, CAP ALL RISERS.
      2. ADJUSTING:
       a. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS,
       b. IF IT IS DETERMINED THAT ADJUSTMENTS IN THE IRRIGATION EQUIPMENT WILL PROVIDE PROPER AND MORE ADEQUATE COVERAGE,
         MAKE SUCH ADJUSTMENTS PRIOR TO PLANTING. ADJUSTMENTS MAY INCLUDE CHANGES IN NOZZLE SIZES AND DEGREES OF ARC AS
       c. LOWER RAISED SPRINKLER HEADS WITHIN 10 DAYS AFTER NOTIFICATION BY OWNER.
     3. TESTING:
       a. TEST PRESSURE LINES UNDER HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH. PROVE WATER TIGHTNESS.
       b. TESTING OF PRESSURE MAIN LINES SHALL OCCUR PRIOR TO INSTALLATION OF ELECTRIC CONTROL VALVES.
      c. SUSTAIN PRESSURE IN LINES FOR NOT LESS THAN 2 HOURS. IF LEAKS DEVELOP, REPLACE JOINTS AND REPEAT TEST UNTIL ENTIRE
         SYSTEM HAS BEEN ACCEPTED.
       d. FURNISH FORCE PUMP AND ACCESSORY TEST EQUIPMENT.
      e. WHEN THE IRRIGATION SYSTEM IS COMPLETED, PERFORM A COVERAGE TEST IN THE PRESENCE OF THE OWNER TO DETERMINE IF
         THE WATER COVERAGE FOR PLANTING AREAS IS COMPLETE AND ADEQUATE. CORRECT INADEQUACIES OF COVERAGE DUE TO
         DEVIATIONS FROM DRAWINGS. COMPLETE TEST BEFORE PLANTING IS STARTED.
3.3 DEMONSTRATION
   A.OPERATION:
      1. OPERATE THE COMPLETED SYSTEM FOR THE OWNER'S PUNCHLIST INSPECTION FOR SUBSTANTIAL COMPLETION AT WHICH TIME EACH
       SPRINKLER HEAD SHALL BE VISUALLY CHECKED FOR COVERAGE, ADJUSTMENT, INSTALLATION AND PERFORMANCE. VALVES SHALL BE
       INSPECTED FOR ADJUSTMENT INSTALLATION, AND PROPER AUTOMATIC OR MANUAL CONTROL. RECORD DOCUMENTS SHALL BE
       CHECKED FOR ACCURACY. CLEANUP OF SITE SHALL BE PERFORMED. GENERAL ITEMS SUCH AS MANUAL DRAIN VALVES, CONTROLLER
       AND QUICK COUPLE VALVES SHALL BE INSPECTED FOR THE MAINTENANCE PERIOD.
      1. INSTRUCT OWNER'S PERSONNEL OR DESIGNATED REPRESENTATIVE IN COMPLETE OPERATION AND MAINTENANCE OF THE IRRIGATION
       SYSTEM INCLUDING BUT NOT LIMITED TOH THE CONTROLLER OPERATION, MAINTENANCE OF THE SYSTEM'S FILTERS, ADJUSTMENT OF
       HEADS, AND WINTERIZATION OF SYSTEM.
    C.MAINTENANCE:
     1. AFTER SUBSTANTIAL COMPLETION OF THE INSTALLATION OF LANDSCAPE RELATED MATERIALS, MAINTAIN SYSTEM FOR 60 DAYS.
                                                                                                                                        SCALE
END OF SECTION 32 8400
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CONSULTANT

Lehi City Corporation 153 North 100 East Lehi, Utah 84043

PROJECT TITLE

Shadow Ridge Park

SHEET TITLE

**IRRIGATION SPECIFICATIONS** 

REVISIONS

MARK | DATE | DESCRIPTION

ISSUE DATE 27 MAR 14 ISSUE TITLE DRAWN BY CHECKED BY PJB

100% CD AS NOTED ASB

2" AMIAD MODEL M102C AUTOMATIC FLUSH FILTER WITH 130 MICRON SCREEN STRONG BOX ENCLOSURE MODEL SBBC-40ALHP - VERIFY SIZE TO FIT FILTER SPECIFIED. INSTALL PER MANUFACTURER'S SPECIFICATIONS. – FL ELL (TYP.) - SAME AS LINE SIZE OUTLET FL WAFER BUTTERFLY VALVE -SAME SIZE AS MAIN LINE -3/4" BRASS HOSE BIB AND SADDLE FL X PE, SPOOL LENGTH AS REQUIRED (TYP.) 6", TYP.<del>⊁</del> - FINISH GRADE I" THICK CONCRETE PAD, TYP. (SIZE AS REQUIRED) 18" MIN. -FL ELL (TYP.) - SAME AS LINE SIZE FLOW — **INSTA-FLANGE ADAPTER** SAME AS LINE SIZE CONCRETE THRUST BLOCKS (TYP.). WRAP PIPES W/ 10 MIL TAPE, CAST AGAINST UNDISTURBED SOIL FILTER ASSEMBLY

1. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT POINT OF CONNECTION AND OPERATING PRESSURE AT EACH HEAD AS INDICATED. INSUFFICIENT PRESSURE CONCERNS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY.

2. ALL HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE.

3. ALL MAINLINE CONNECTIONS TO THE EXISTING METER OR WATER SERVICE LINE SHALL HAVE BACKFLOW PREVENTION AS REQUIRED BY LOCAL MUNICIPALITY CODES AND ORDINANCES.

4. ALL VALVES SHALL BE LOCATED IN GROUPS WHERE SHOWN ON DRAWINGS. VALVES SHALL BE LOCATED 3' AWAY FROM ANY FENCE, MOWSTRIP, WALK, CURB, OR BUILDING.

5. ALL VALVES SHALL BE WIRED USING #14 U.F. WIRE OR MANUFACTURERS RECOMMENDED 2 WIRE WIRE AND PEN-TITE WATER RESISTANT WIRE CONNECTORS. CONTROL CABLE SHALL FOLLOW THE MAINLINE IN THE SAME TRENCHES. TAPE AND BUNDLE 2 FT. OF CABLE EVERY 100 FT., AT EACH TURN IN THE MAINLINE TRENCH, AND AT EACH VALVE.

6. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WIRE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. TIE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES.

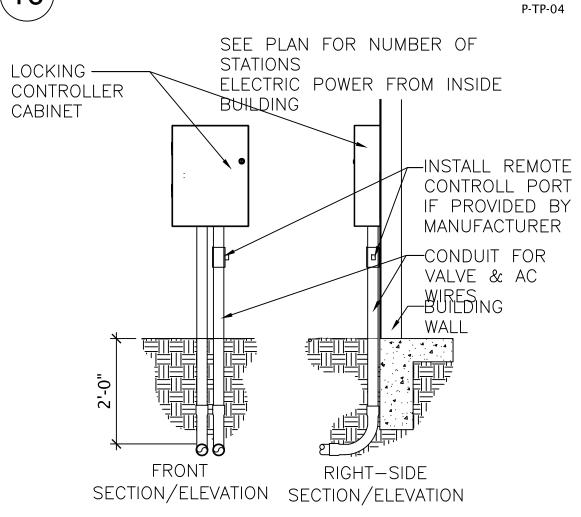
7. THE IRRIGATION DESIGN IS SCHEMATIC. ALL PIPING, VALVES, HEADS, ETC., SHOWN OUTSIDE OF THE PLANTING AREA IS FOR GRAPHIC CLARITY ONLY AND SHALL BE INSTALLED WITHIN THE PLANTING AREA. COORDINATE IRRIGATION, PLANTING AND OTHER SITE OPERATIONS. VERIFY AVAILABLE WATER PRESSURE AND FLOW AT SUPPLY SOURCE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF ALL CONSTRUCTED ITEMS, BUILDINGS DIFFERENCES IN ACTUAL AND DRAWN DIMENSIONS, UNDERGROUND SERVICES, ETC. PRIOR TO BEGINNING CONSTRUCTION. CALL UTILITY SERVICE, FOR MARKING LOCATION OF ALL UNDERGROUND SERVICES.

8. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF IRRIGATION LAYOUT SHOWS ANY DISCREPANCY BETWEEN DESIGNED IRRIGATION SYSTEM AND ACTUAL SITE CONDITIONS, FOR ANY DECISIONS WHICH ARE DEEMED NECESSARY FOR ADJUSTMENT OF DESIGNED SYSTEM. NO MAJOR CHANGES OR SUBSTITUTIONS SHALL BE MADE TO THE IRRIGATION SYSTEM WITHOUT WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.

9. INSTALL SLEEVES AND PIPING IN A PARALLEL OR PERPENDICULAR MANNER, FOLLOWING THE GENERAL LAYOUT OF THE PAVING DESIGN. THE CONTRACTOR SHALL ENSURE COMPLETE SPRINKLER COVERAGE FOR ALL PLANTED AREAS, AND SHALL ADJUST THE IRRIGATION HEADS TO ACCOMPLISH SUCH. FLUSH AND ADJUST HEADS TO ENSURE NO OVERTHROW ONTO WALLS, WALKS, STREETS, OR OTHER HARD SURFACES.

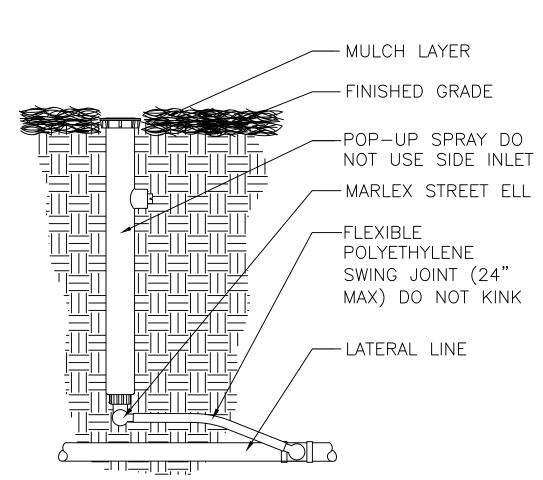
10. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES BY A LICENSED LANDSCAPE CONTRACTOR AND EXPERIENCED WORKERS. ALL PERMITS SHALL BE OBTAINED AND FEES PAID BY THE CONTRACTOR.





WALL MOUNTED CONTROLLER

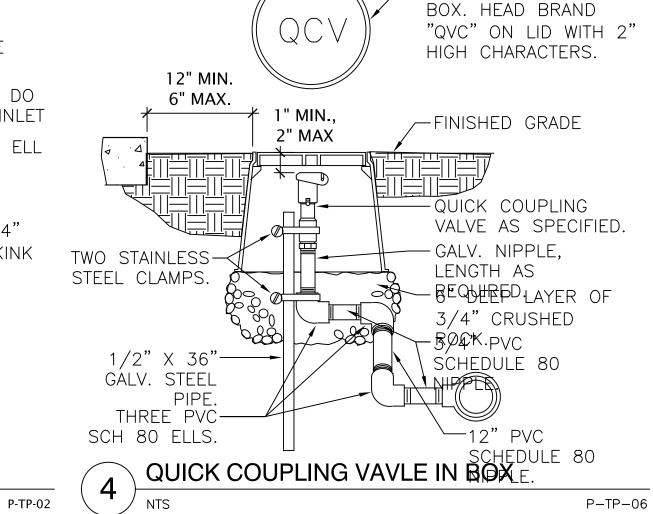
P-TP-78



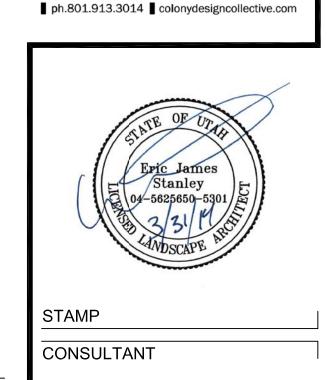
PLANTING AREA POP-UP SPRAY HEAD

8

3" = 12"



-10" DIAMETER VALVE

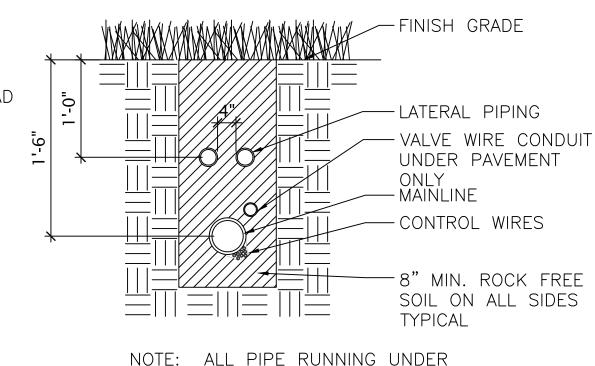


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-FINISHED GRADE -POP-UP SPRAY HEAD - MARLEX STREET ELL FLEXIBLE POLYETHYLENE SWING JOINT (24" MAX) DO NOT KINK LATERAL LINE

LAWN AREA POP-UP SPRAY HEAD



PAVEMENT SHALL BE IN SLEEVING, SIZE

AS REQUIRED.

TRENCH SECTION

OWNER Lehi City Corporation 153 North 100 East Lehi, Utah 84043

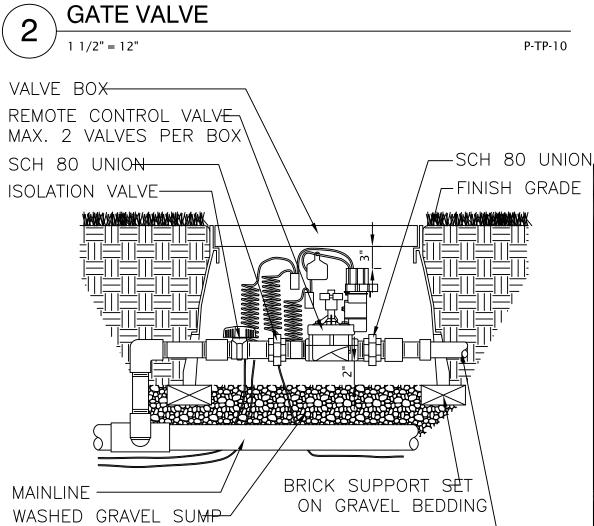
3" = 1'-0"P-TP-03 VALVE BOX LID,— SET BOX 2"-HEAD BRAND "J ABOVE GRADE BOX" ON LID J BOX AT SHRUBS WITH 2" HIGH SET BOX FLUSH-TO GRADE AT, STANDARD BOX LAWM WITH T TYPE BOX: COIL 30" LENGTH \AND I.D. TAG LOOP, BUNDLE, AND LABEL WIRES THAT ARE TO CONTROLLER CONTINUE, AS **OCCURS** TWO 6X2X16 CONCRETE BLOCK ONE ON EACH SIDE OF BOX. -MAIN LINE AS OCCURS WIRE BUNDLE JUNCTION BOX

02810-86001

10" ROUND VALVE BOX WITH T TYPE —PVC SLEEVE (SIZE 6" MIN. PEA GRAVEL AND LENGTH AS LAYER UNDER REQUIRED). NOTCH ENTIRE BOX AND IN OVER VALVE FOR BOX TO STABALIZE STABILITY. SLEEVE -BRICK SUPPORT -MAINLINE AS PER -VALVE WITH RESILIENT WEDGE (SAME SIZE AS MAINLINE)

| PROJECT TITLE Shadow Ridge Park SHEET TITLE

P-TP-09



**VALVE ASSEMBLY** 

 $1 \ 1/2" = 1'-0"$ 

LATERAL LINE-

| REVISIONS MARK | DATE | DESCRIPTION **ISSUE DATE** 27 MAR 14

ISSUE TITLE

P-TP-11

**IRRIGATION** 

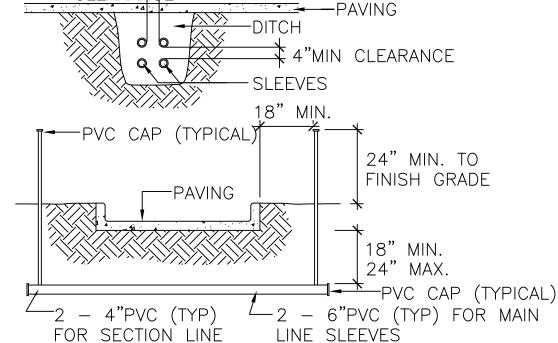
**DETAILS** 

SCALE AS NOTED DRAWN BY EJS CHECKED BY PJB LC-TP L575

100% CD

4" MIN. CLEARANCE

1 1/2" = 1'-0"

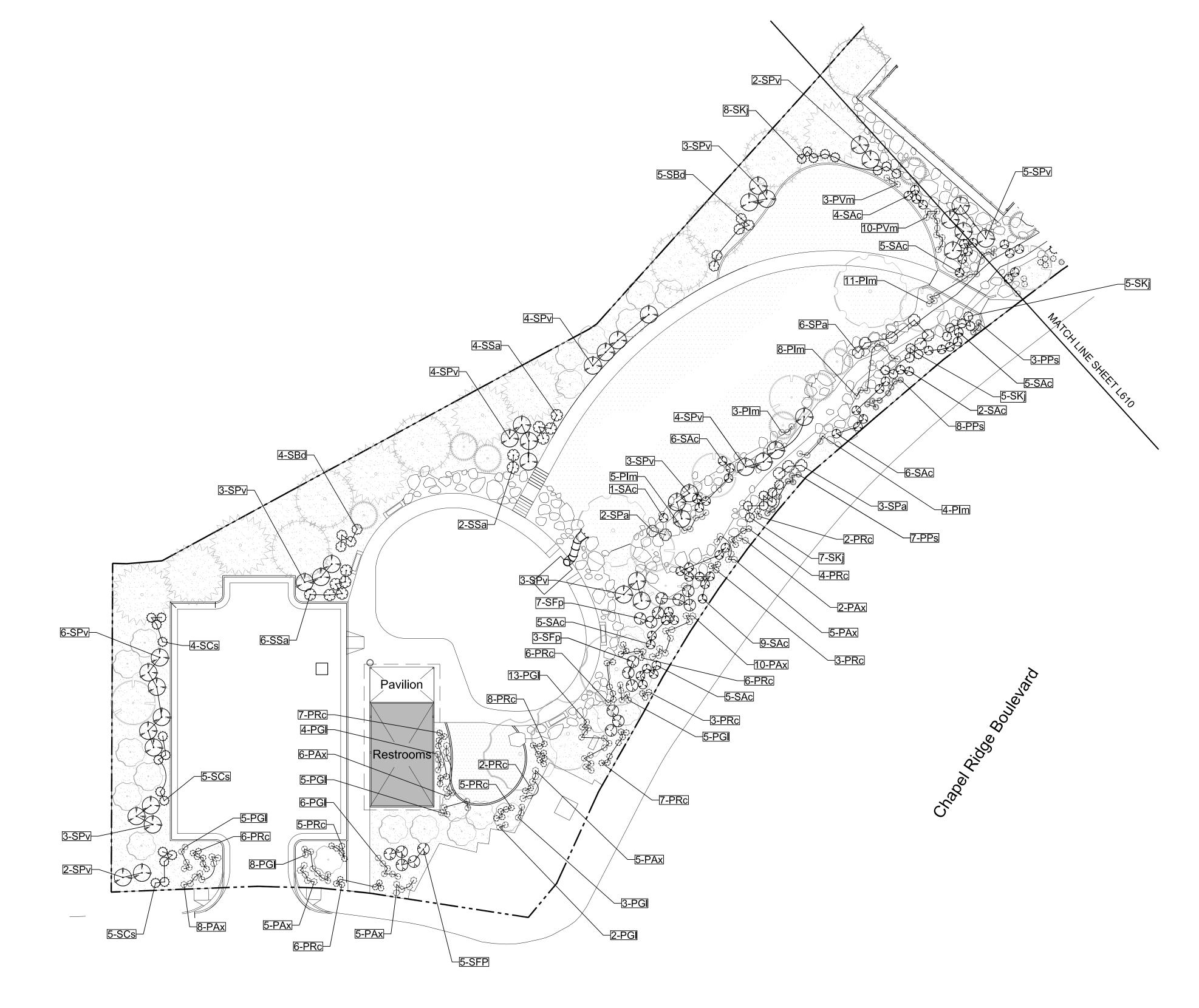


NOTES: SLEEVES TO BE SCH. 40 PIPE (MIN. SIZE AS INDICATED ON PLAN). ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE.

MECHANICALLY TAMP TO 95% PROCTOR.

SLEEVING P-TP-12

P-TP-08 1/2" = 1'-0"





PLANTING SCHEDULE 2

L600

PLANTING PLAN UNDERSTORY, W. 1

Scale: 1" = 20'-0" L600

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STAMP

CONSULTANT

OWNER

Lehi City Corporation
153 North 100 East
Lehi, Utah 84043

| PROJECT TITLE

Shadow Ridge Park

PLANTING PLAN
UNDERSTORY, W.

REVISIONS

MARK | DATE | DESCRIPTION

ISSUE DATE 27 MAR 14
ISSUE TITLE 100% CD

ISSUE TITLE 100% CD
SCALE AS NOTED
DRAWN BY ASB
CHECKED BY PJB

LC-TP L600