LAKE HILLS BLVD TURF & SPLICE BOX TURF TURF BED PLAY REST ROOM AREA **TURF** PRIVATE PROPERTY 70 PLAY TURF SPORT COURT TURF (D2)-TURF TURF -WATER METER SE 8TH ST

EVERGREEN PARK

IRRIGATION SYSTEM UPGRADES 15655 LAKE HILLS BLVD BELLEVUE, WA 98008

PROJECT DESCRIPTION:

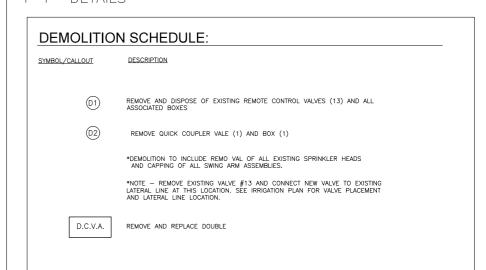
THIS PROJECT INVOLVES THE REPLACEMENT OF IRRIGATION SYSTEM COMPONENTS INCLUDING P.O.C., MAINLINE, LATERAL LINES, VALVES, WIRING, SWING ARM ASSEMBLIES AND SPRINKLER HEADS. THE SCOPE OF WORK INCLUDES MOBILIZATION, SITE PREPARATION, TEMPORARY EROSION AND SEDIMENTATION CONTROL, DEMOLITION, TRENCHING, PVC PIPE INSTALLATION, LOW VOLTAGE WIRING INSTALLATION AND SITE RESTORATION.

ESTIMATED PROJECT TIMELINE:

SEPTEMBER 3, 2019 - OCTOBER 31, 2019

SHEET INDEX:

- -1 COVER, EXISTING CONDITIONS & DEMOLITION PLAN
- -2 IRRIGATION PLAN
- I-3 DETAILS
- I-4 DETAILS





VICINITY



CITY OF BELLEVUE
PARKS & COMMUNITY
SERVICES DEPARTMENT
P.O. BOX 90012
BELLEVUE, WA 98009-9012

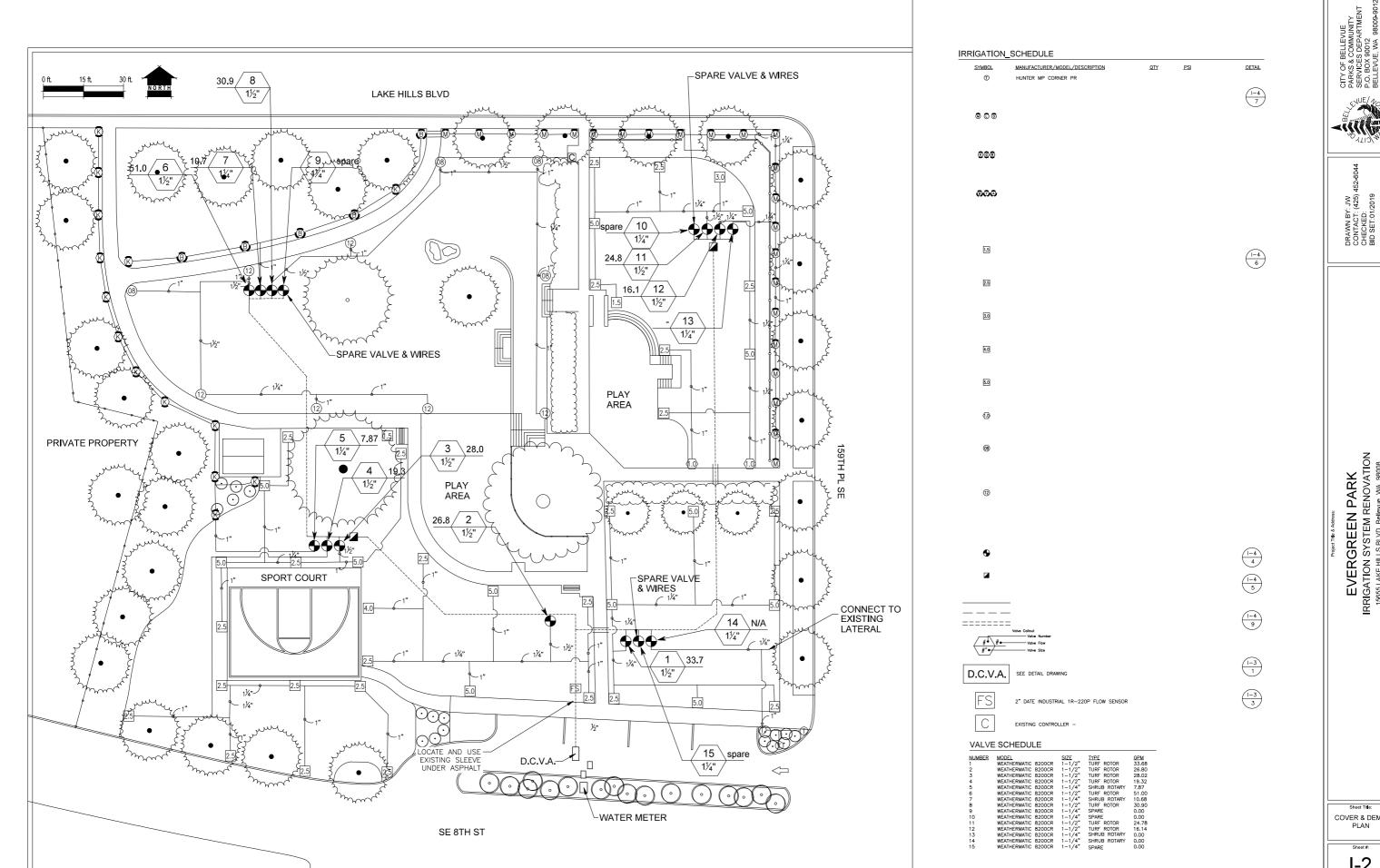


RAWN BY: JW ONTACT: (425) 452-6044 HECKED: D SET:01/2019

EVERGREEN PARK
IRRIGATION SYSTEM RENOVATION
15655 LAKE HILLS BLVD, Bellevue, WA, 98008

Sheet Title: COVER & DEMO PLAN





CITY OF BELLEVUE
PARKS & COMMUNITY
SERVICES DEPARTMENT
P.O. BOX 90012
BELLEVUE, WA 98009-9012

EVERGREEN PARK IRRIGATION SYSTEM RENOVATION 15655 LAKE HILLS BLVD, Bellevue, WA, 98008

Sheet Title: COVER & DEMO

I-2

IRRIGATION NOTES:

- PROVIDE AND INSTALL ALL IRRIGATION IN CONFORMANCE WITH THE CITY OF BELLEVUE STANDARDS. IN THE EVENT OF CONFLICT BETWEEN NOTES, DETAILS OR TECHNICAL SPECIFICATIONS, THE STANDARD DETAILS SHALL TAKE PRECEDENCE.
 CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND SAFETY REGULATIONS. DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO UTILITIES, TREES, VEGETATION, STRUCTURES OR OTHER EXISTING CONDITIONS.

- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO START
- LOCATE AUTOMATIC CONTROL VALVES AT POINTS OF EASY ACCESS. OWNER TO REVIEW AND
- APPROVE FINAL LOCATIONS PRIOR TO START OF WORK.

 HEAD LOCATION SHALL BE ADJUSTED IN THE FIELD TO ACCOUNT FOR EXISTING SITE

 CONDITIONS. SPRAY PATTERN SHALL BE ADJUSTED AS NECESSARY TO ACHEIVE MAXIMUM

 COVERAGE AND MINIMAL OVER SPRAY. IN TURF AREAS, LOCATE HEADS 6" FROM EDGE OF

 HARD SURFACES. OWNER TO INSPECT AND APPROVE FINAL HEAD LAYOUT PRIOR TO
- INSTALLATION.
 PIPES TO SHARE COMMON TRENCHES WHERE APPLICABLE. SEPARATE COMMON PIPING BY A MINIMUM OF 3" APART WITH NO MORE THAN 4 PER TRENCH.

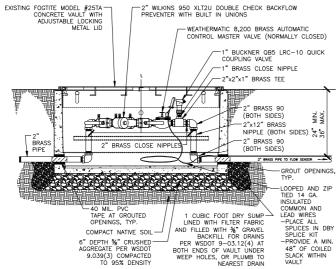
- LETTERS ON PIPING SHALL BE ROTATED TO FACE UP.
 USE NO MALE OR FEMALE ADAPTERS.
 ALL IRRIGATION VALVE WIRING SHALL BE INSULATED, SINGLE STRAND, 14-GAUGE. ONE SPARE WIRE SHALL BE INSTALLED FOR EACH 4 ZONES UNLESS OTHERWISE SPECIFIED ON THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE((S) AWAY STRAND FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE FARTHEST VALVE FOR THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE PLAN. ALL SPARE WIRES SHALL BE INSTALLED TO THE PLAND FOR THE
- FROM CONTROLLER.

 OWNER SHALL HAVE OPPORTUNITY TO INSPECT ALL GLUE JOINTS PRIOR TO BACKFILLING.

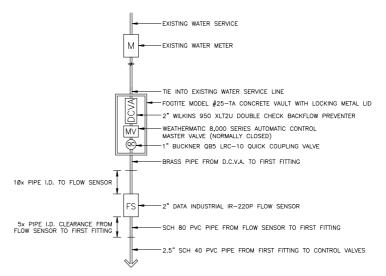
 OWNER MAY REQUEST GLUE JOINT TEST AT ANY TIME DURING COURSE OF CONSTRUCTION.

 CONTRACTOR SHALL PERFORM PRESSURE TEST OF MAINLINE TO 150 PSI IN PRESENCE OF

 OWNER PRIOR TO FINAL ACCEPTANCE. A SUCCESSFUL TEST WILL HAVE 0 PSI LOSS IN ONE HALF HOLIR TIME PERIOD
- CONTRACTOR SHALL PERFORM LEAK DOWN TEST OF ALL LATERAL LINES (WITH SWING ARMS CAPPED) UP TO STATIC PRESSURE WITH OWNER PRESENT PRIOR TO FINAL ACCEPTANCE. A SUCCESSFUL LEAK DOWN TEST WILL HAVE LESS THAN 5 PSI PRESSURE LOSS WITHIN A 15 MINUTE TIME PERIOD.
- ALL LATERAL LINES SHALL BE THOROUGHLY FLUSHED PRIOR TO THE INSTALLATION OF SPRINKLER HEADS AND NOZZLES.
 TRENCH LINES TO BE RESTORED PER DETAILS 8 AND 9 ON SHEET I-4.

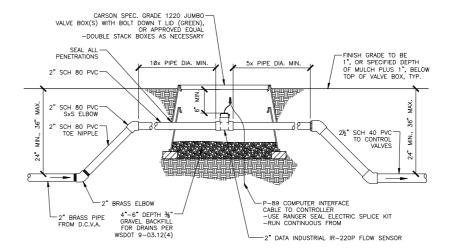


POINT OF CONNECTION ASSEMBLY 3/4" = 1'-0"DETAIL-EVERGREEN



POINT OF CONNECTION SCHEMATIC

DETAIL-EVERGREEN



FLOW SENSOR ASSEMBLY ິ3 `

1" = 1'-0" DETAIL -FVFRGREEN

IRRIGATION DETAILS

I-3

JW (425) DRAWN BY: , CONTACT: (4 CHECKED: BID SET: 04-(

EVERGREEN PARK IRRIGATION SYSTEM RENOVATION 15655 LAKE HILLS BLVD, Bellevue, WA, 98008

IRRIGATION Sheet #:

Sheet Title:

I-4

CARSON SPEC. GRADE 1220 JUMBO VALVE-BOX(S) WITH BOLT DOWN T LID (GREEN), OR APPROVED EQUAL -DOUBLE STACK BOXES AS NECESSARY -DO NOT CUT PIPE OPENINGS LOOPED AND ZIP TIED 14 GA. COMMON (WHITE). LEAD (BLACK) AND SPARE WIRES (ORANGE)

-PLACE ALL SPLICES IN DBY SPLICE KIT

-PROVIDE A MIN. 48" OF SLACK COILED WITHIN BOX RED AND WHITE BRASS GATE VALVE -SCH 80 PVC CLOSE NIPPLE— (4 TOTAL ACROSS ASSEMBLY) MAX. WEATHERMATIC 8,000 SERIES BRASS AUTOMATIC CONTROL VALVE FINISH GRADE TO BE-1", OR SPECIFIED DEPTH OF MULCH PLUS 1", BELOW TOP OF VALVE BOX, TYP. SCH 80 PVC TxT UNION, TO LOOSEN OUTWARD AWAY FROM VALVE COMPACT NATIVE SOIL SCH 80 PVC NIPPLE, LENGTH AS REQUIRED SCH 80 PVC TxT 90 (4) PAVING BRICKS AT CORNERS SCH 80 PVC NIPPLE,-LENGTH AS REQUIRED -SCH 80 PVC SxT BUSHING -AS NECESSARY SCH 80 PVC SxT BUSHING -AS NECESSARY -SCH 40 PVC LATERAL LINE, 18" MIN.- 24" MAX. DEPTH FROM TOP OF PIPE TO FINISHED GRADE SCH 40 PVC SxSxS-OR SxSxT TEE SCH 40 PVC MAINLINE,— 24" MIN.— 36" MAX. DEPTH FROM TOP OF PIPE TO FINISHED GRADE -4"-6" DEPTH %" GRAVEL BACKFILL FOR DRAINS PER WSDOT 9-03.12(4) DRAINS PER WSDOT 91. ASSEMBLY SIZE DETERMINED BY VALVE INLET SIZE.
2. ALL THREADED FITTINGS TO RECEIVE TEFLON TAPE (3 WRAPS MIN.).
3. ALL VALVES TO RECEIVE CHRISTY'S 2½ "x½" YELLOW I.D. TAGS WITH BLACK LETTERS (BOTH SIDES) WITH CONTROLLER STATION NUMBER, OR APPROVED EQUIAL.

AUTOMATIC CONTROL VALVE ASSEMBLY

DETAIL-EVERGREEN

-SET HEAD AT GRADE

%"x2" SCH 80 PVC NIPPLE

-½"x12" SCH 80 PVC NIPPLE -AT 45" ANGLE FOR 6" HEAD, TYP -LAYING FLAT FOR 12" HEAD, TYP.

-FINISH GRADE

CARSON SPEC. GRADE 910 ROUND BOX WITH BOLT DOWN T LID (GREEN), OR APPROVED EQUAL 1" BUCKNER OR5 LRC-10 OLUCK-COUPLING VALVE CENTERED WITHIN BOX AND PLUMBED VERTICALLY -FINISH GRADE TO BE 1", OR SPECIFIED DEPTH OF MULCH PLUS 1", BELOW TOP OF VALVE BOX _COMPACT_NATIVE_SOIL -14 GA. INSULATED LOCATOR WIRE (BLUE) FROM QUICK COUPLER LINE OR MAINLINE WITH TERMINAL END IN DBY -4"-6" DEPTH %" GRAVEL BACKFILL FOR DRAINS PER WSDOT 9-03.12(4) -(2) PAVING BRICKS 1" BRASS TxT 90--3' STEEL FARM FENCE POST WITH 3 EA SS CLAMPS, PLUMBED VERTICALLY 1"x12" BRASS NIPPLE AT 45"-ANGLE IN RELATION TO QUICK COUPLER LINE SCH 40 PVC QUICK— COUPLER LINE OR MAINLINE WITH SXS 90 OR SXSXS TEE, 24" MIN. – 36" MAX. FROM TOP OF PIPE TO FINISHED GRADE -1" BRASS TxT 90 1"x3" BRASS NIPPLE SCH 80 PVC SxT BUSHING

QUICK COUPLER VALVE ASSEMBLY

1 1/2" = 1'-0" DETAIL-EVERGREEN

RESTORE WITH $^{6}\%_{0}$ TOPSOIL AND HYDRO-SEED IN TURF AREAS, MEDIUM FINE BARK MULCH IN PLANTING AREAS -CLEAN, SUITABLE BACKFILL MATERIAL -3" MIN. SEPARATION BETWEEN PIPE SHARING COMMON TRENCHES, ORIENTED SIDED BY SIDE (NO STACKING) 14 GA. INSULATED LOCATOR WIRE TAPED TO TOP OF LATERAL LINES (BLUE) SCH 40 PVC LATERAL LINES, SIZED PER PLAN -NO MORE THAN 4 PER COMMON TRENCH, TYP. SCH 40 PVC MAINLINE, SIZED PER PLAN -BUNDLE CONTROL WIRES BELOW MAINLINE IN SNAKE LIKE FASHION TO PROVIDE SLACK -COVER WITH 2" OF CLEAN SUITABLE BACKFILL PRIOR TO PLACINE MAINLINE -TAPE WIRES TOGETHER, BUT DO NOT TAPE BUNDLED WIRES TO MAINLINE -LEAD=BLACK, COMMON=WHITE, SPARE=ORANGE

36

TYPICAL TRENCH SECTION 8

1 1/2" = 1'-0" DETAIL-EVERGREEN

-FINISH GRADE -PATCH CROSSINGS WITH CLASS "B" HMA OR 3000 PSI CONCRETE TO MATCH EXISTING HARD SURFACE % CRUSHED AGGREGATE COMPACTED TO 95% DENSITY SCH 40 PVC LATERAL LINE WITH BLUE LOCATOR WIRE IN SLEEVE SCH 40 PVC MAINLINE IN SLEEVE RUN CONTROL WIRES-SEPARATELY IN ELECTRICAL CONDUIT, TYP.

NOTES:

1. SILEEVING MATERIAL SHALL BE SCH 40 PVC PIPE AND SHALL BE LARGE ENOUGH TO ALLOW IRRIGATION PIPE AND ASSOCIATED COUPLINGS TO EASILY SLIP THROUGH SLEEVING MATERIAL, TYPICALLY 2x DIAMETER OF IRRIGATION PIPE.

2. ONLY 1 IRRIGATION PIPE PER SLEEVE, TYP.

3. USE DUCTLIE IRON WHEN CROSSING UNDER HEAVILY TRAVELED ARTERIAL ROADWAYS.

4. EXTEND SLEEVING MATERIAL 18" BEYOND EDGE OF PAVEMENT.

5. PROVIDE 48" COILED SLACK WHERE CONTROL WIRES ENTER AND EXIT THE SLEEVE.

SUITABLE COMPACT NATIVE SOIL

SCH 80 PVC NIPPLE, LENGTH AS REQUIRED

DETAIL-EVERGREEN

NOTES:

1. SWING ARM ASSEMBLY SIZE DETERMINED BY HEAD INLET SIZE.

2. ALL THREADED FITTINGS TO RECEIVE TEFLON TAPE (3 WRAPS MIN.).

MAX.

18" 24"

SCH 80 PVC-TxT 90

HEAD & SWING ARM ASSEMBLY - ROTOR

TYPICAL SLEEVE SECTION ໌9`

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

HEAD & SWING ARM ASSEMBLY - SPRAY 3" = 1' - 0"

MIN.

18" 24"

DETAIL-EVERGREEN

"x2" SCH 80 PVC NIPPLE