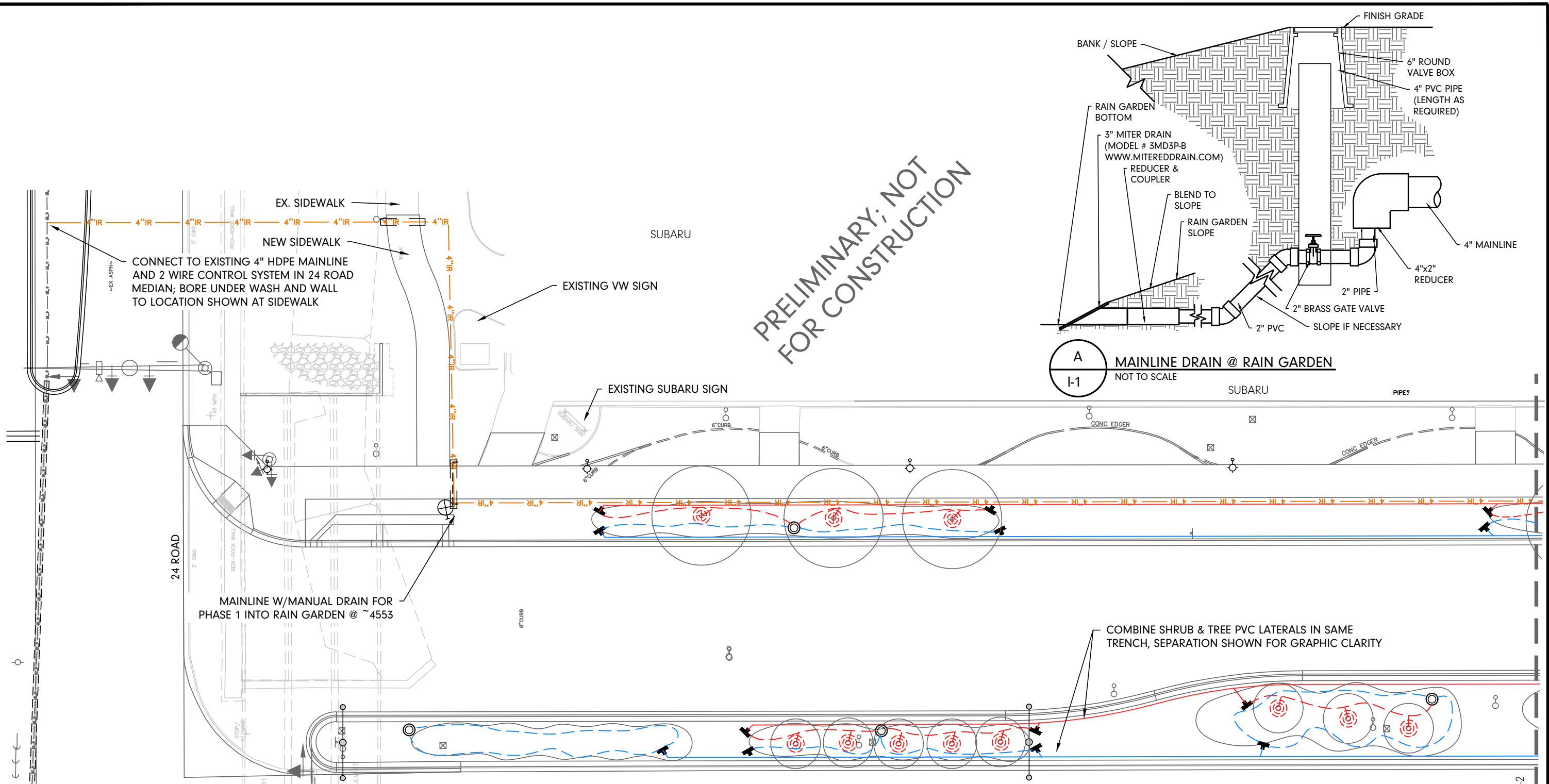


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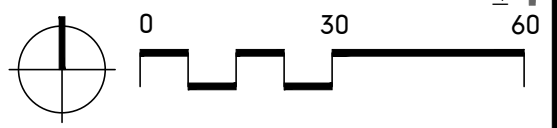
IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- PIPE SIZING

- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS
- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
- COMPRESSION "T" FITTING

- QUICK COUPLER VALVE DETAIL E/I-9
- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

- NOTES:
1. SEE SHEET I-4 FOR NOTES
 2. SEE SHEET I-9 FOR DETAILS
 3. SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
 4. DRAWINGS ARE PRELIMINARY; NOT FOR CONSTRUCT
- FINAL IRRIGATION PLAN TO BE ISSUED WITH ADDENDA.



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REVISION Δ			MH	10-31-23	
REVISION Δ			MR	10-31-23	
REVISION Δ			KAH		

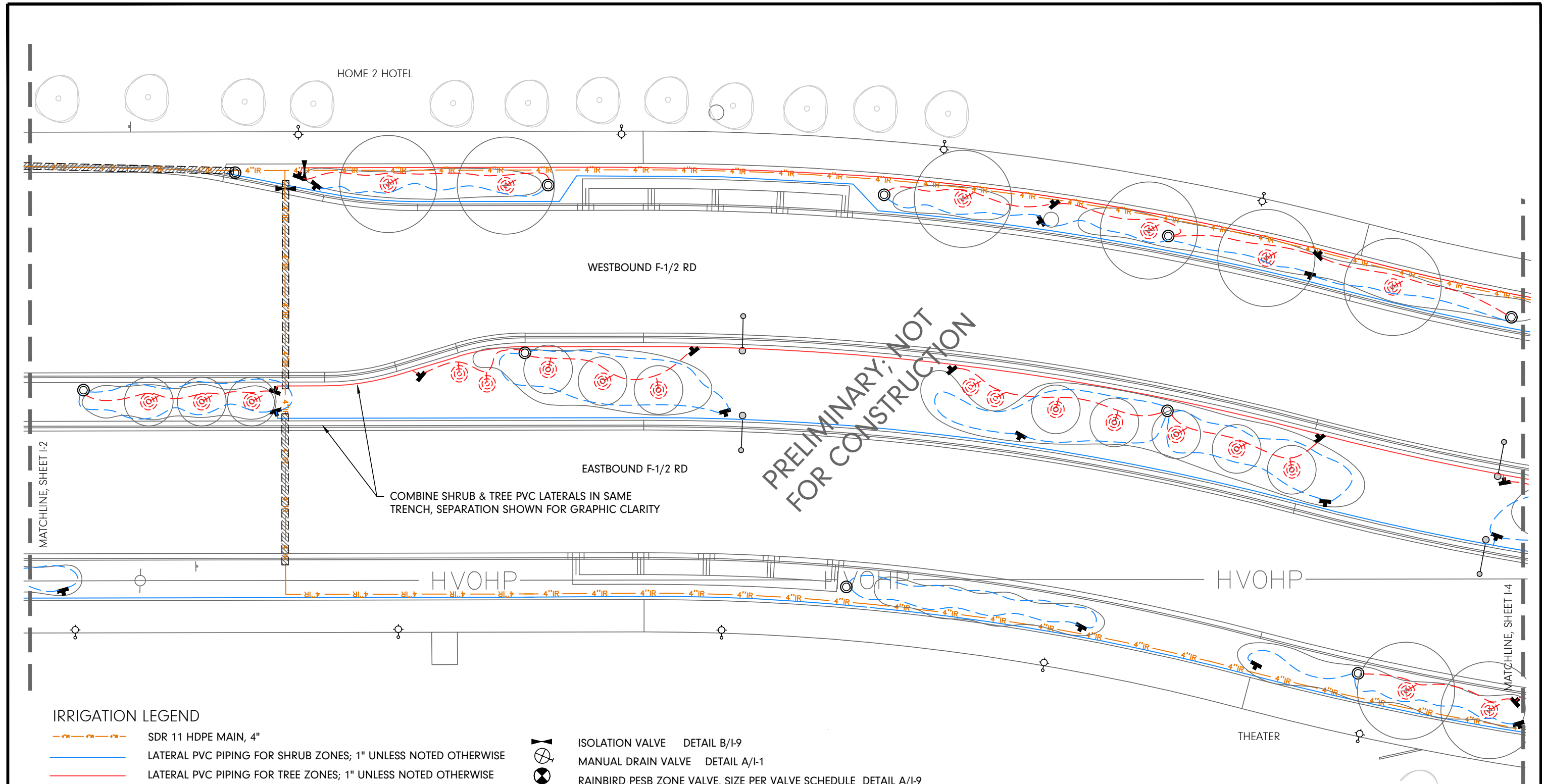


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ENGINEERING DIVISION**
PROJECT NO. F2103306

**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-1
November 03, 2023**



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HOME 2 HOTEL

WESTBOUND F-1/2 RD

EASTBOUND F-1/2 RD

COMBINE SHRUB & TREE PVC LATERALS IN SAME TRENCH, SEPARATION SHOWN FOR GRAPHIC CLARITY

HVOHP

PRELIMINARY; NOT FOR CONSTRUCTION

HVOHP

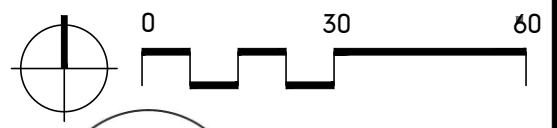
THEATER

IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- 1-1/2" PIPE SIZING
- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS

- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
- COMPRESSION "T" FITTING
- QUICK COUPLER VALVE DETAIL E/I-9
- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

- NOTES:
- SEE SHEET I-4 FOR NOTES
 - SEE SHEET I-9 FOR DETAILS
 - SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
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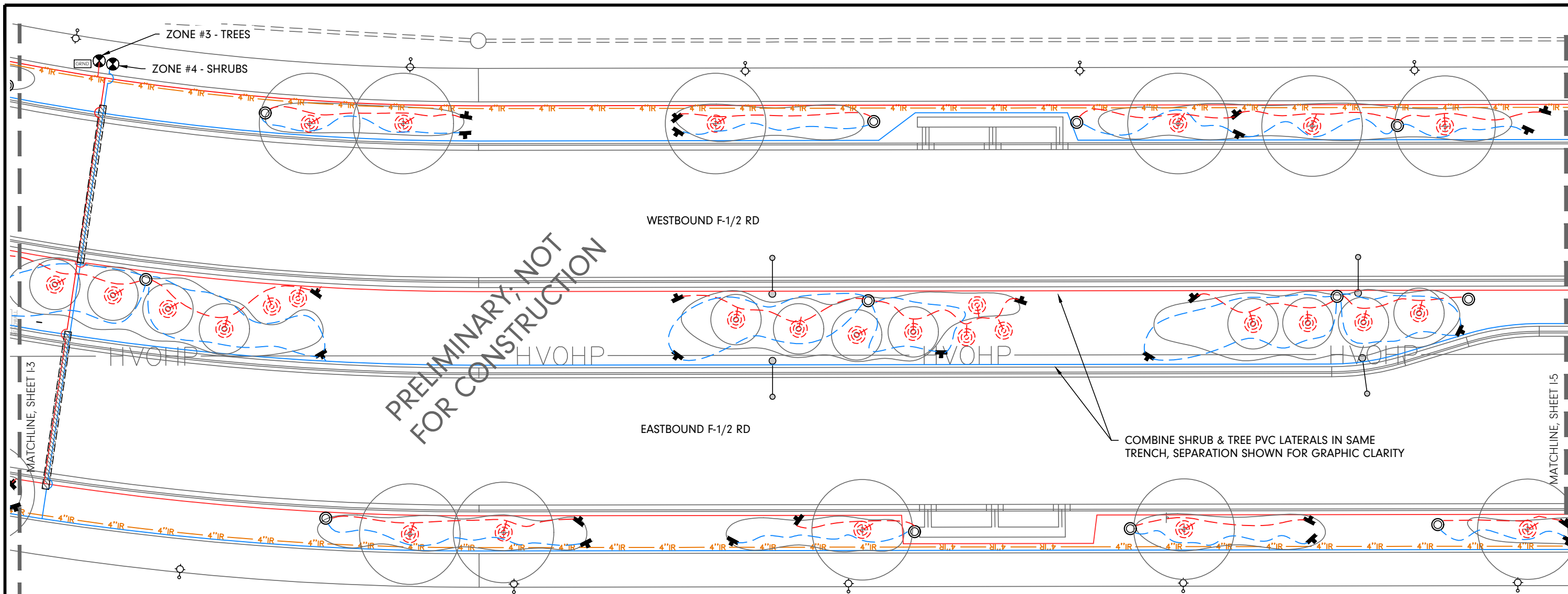
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REVISION Δ			MR	10-31-23	
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PROJECT NO. F2103306

**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-3
November 03, 2023**

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COMBINE SHRUB & TREE PVC LATERALS IN SAME TRENCH, SEPARATION SHOWN FOR GRAPHIC CLARITY

IRRIGATION NOTES:

1. ALL WORK SHALL BE PER EXISTING COUNTY OR STATE CODE AND IS SUBJECT TO INSPECTION AND APPROVAL BY APPROPRIATE INSPECTORS AND THE OWNER'S REPRESENTATIVE.
2. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. MAIN LINE SLEEVING TO OCCUR WHERE SHOWN. MAIN LINE SLEEVING TO BE 8" X 1/4" STEEL WITH SPECIFIED SPACERS.
4. ALL LATERAL AND MAIN LINES IN SYSTEM WILL BE CONTAINED IN SLEEVES WHEREVER CONCRETE IS TO BE OVERLAID.
5. CONTRACTOR TO VERIFY LOCATION OF EXISTING IRRIGATION CABLE IN 24 ROAD MEDIAN AND CONNECT NEW IRRIGATION VALVES. ENSURE CONTINUED SUPPLY AND CONTROL TO EXISTING 24 ROAD AND BRIDGE AREA IRRIGATION ZONES.
6. MAXIMUM LENGTH OF SWING PIPE ON ALL HEADS SHALL BE 10 FT., MINIMUM LENGTH SHALL BE 2 FT.
7. ALL MAINS SHALL BE BURIED AT A MINIMUM DEPTH OF 24 IN. ALL LATERALS AT A DEPTH OF 18 IN. ALL VALVE WIRING SHALL BE BUNDLED BY TAPING AT 25 FT. INTERVALS AND PLACED BELOW IRRIGATION PIPING FOR PROTECTION.
8. CONTRACTOR TO INSTALL MANUAL DRAIN VALVES AT LOW POINT ON ALL MAIN LINES.
9. SEE SHEET I-9 - I-10 FOR DETAILS.
10. SYSTEM IS DESIGNED TO OPERATE AT 40 PSI, PROVIDING MINIMUM 35 PSI AT ZONE VALVES.
11. WHERE IRRIGATION IS TO BE LOCATED ADJACENT TO FENCING, LATERALS SHALL BE LOCATED 12 INCHES FROM BACK OF WALK AND 3 INCHES FROM FACE OF FENCE.
12. DRIP EMITTERS TO BE NETAFIM WPC, 1 GPM EMITTERS. FOR TREE DRIPPER LINES, SEE DETAIL, SHEET F/I-9
13. PIPE FROM CONTROL VALVE TO FIRST "TEE" TO USE 1/2" LARGER THAN VALVE UNLESS NOTED OTHERWISE
14. PIPE SIZE NOTATION INDICATES MINIMUM PIPE SIZE DOWNSTREAM FROM THAT POINT.
15. THRUST BLOCKING TO BE PROVIDED AS NOTED IN SPECIFICATIONS.

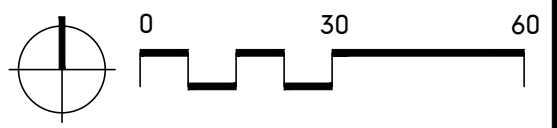
IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- 1-1/2" PIPE SIZING
- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS
- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
- COMPRESSION "T" FITTING
- QUICK COUPLER VALVE DETAIL E/I-9

- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

NOTES:

1. SEE SHEET I-4 FOR NOTES
2. SEE SHEET I-9 FOR DETAILS
3. SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
4. DRAWINGS ARE PRELIMINARY; NOT FOR CONSTRUCTION. FINAL IRRIGATION PLAN TO BE ISSUED WITH ADDENDA.



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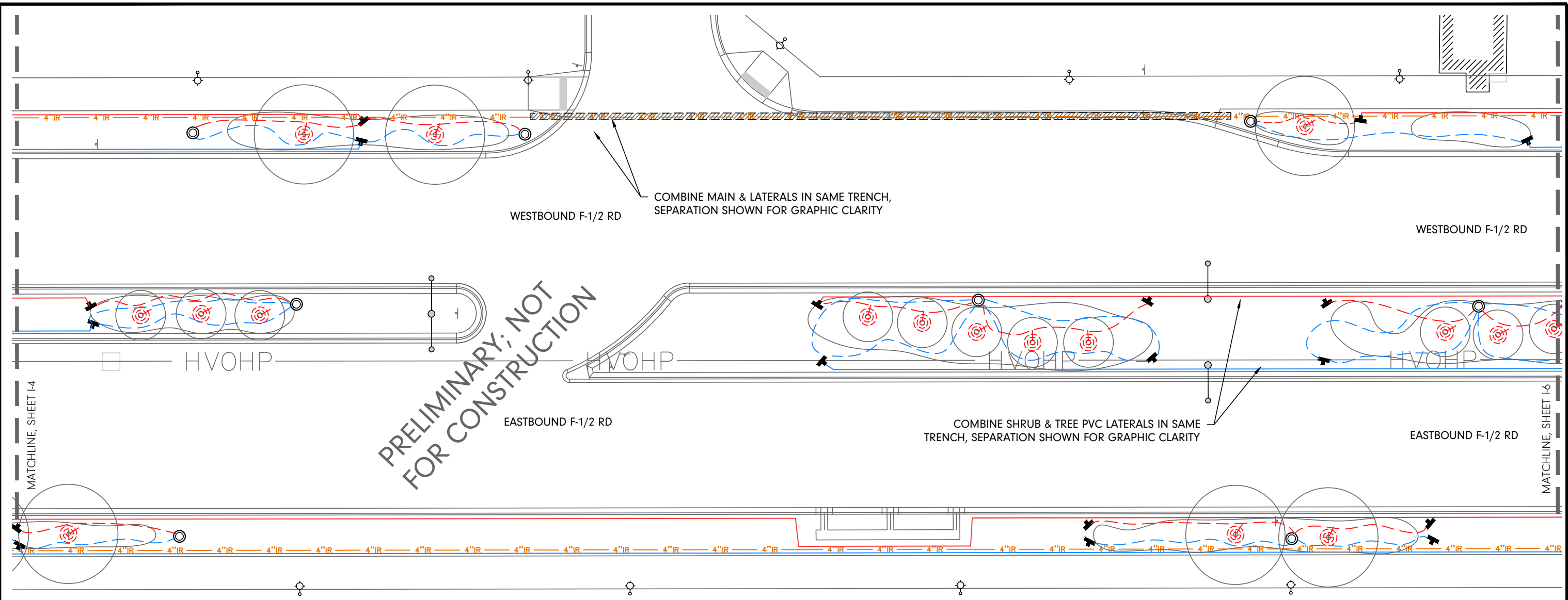


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ENGINEERING DIVISION**
PROJECT NO. F2103306

**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-4
November 03, 2023**



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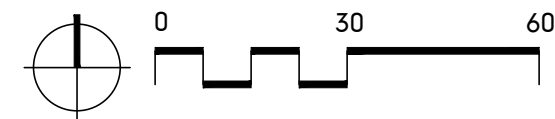
IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- 1-1/2" PIPE SIZING
- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS

- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-1
- COMPRESSION "T" FITTING
- QUICK COUPLER VALVE DETAIL E/I-9
- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

NOTES:

1. SEE SHEET I-4 FOR NOTES
2. SEE SHEET I-9 FOR DETAILS
3. SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
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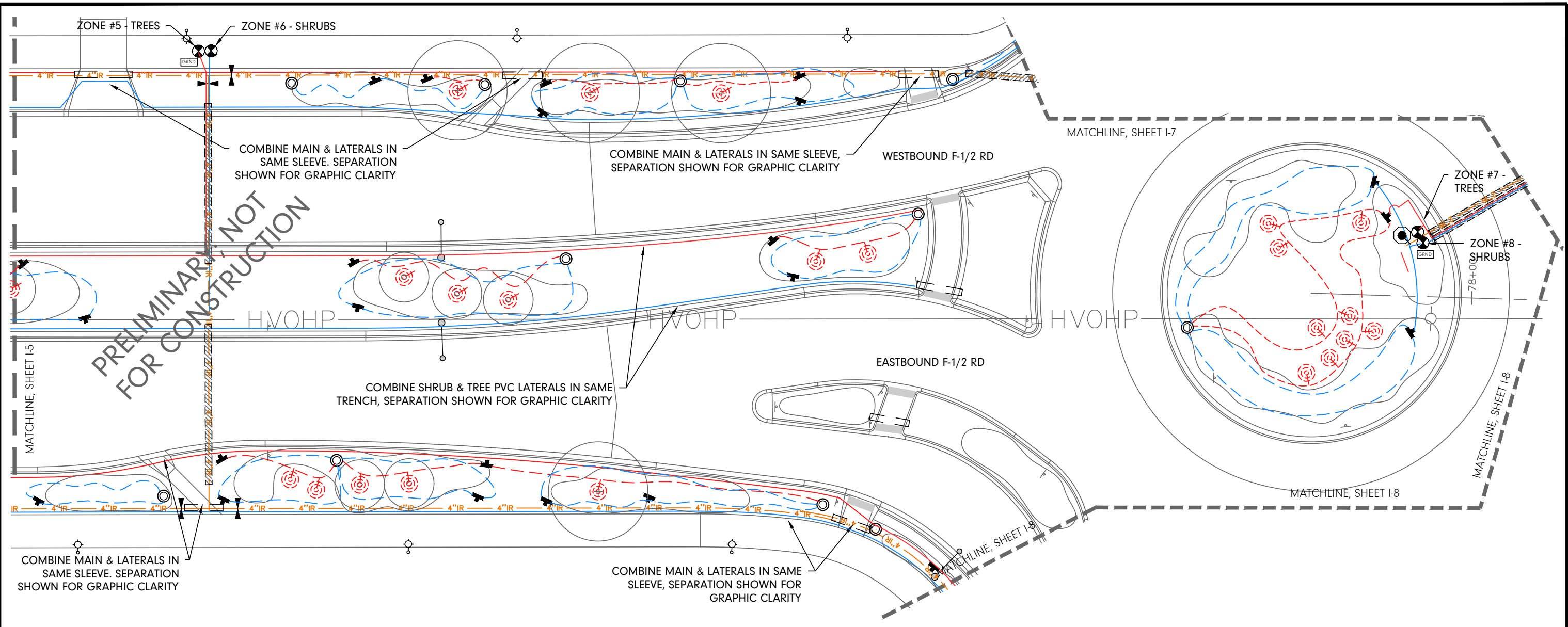


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PROJECT NO. F2103306

**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-5
November 03, 2023**



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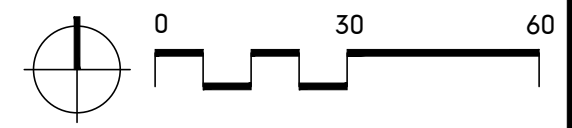


IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- 1-1/2" PIPE SIZING
- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS

- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
- COMPRESSION "T" FITTING
- QUICK COUPLER VALVE DETAIL E/I-9
- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

- NOTES:**
- SEE SHEET I-4 FOR NOTES
 - SEE SHEET I-9 FOR DETAILS
 - SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
 - DRAWINGS ARE PRELIMINARY; NOT FOR CONSTRUCTION. FINAL IRRIGATION PLAN TO BE ISSUED WITH ADDENDA.



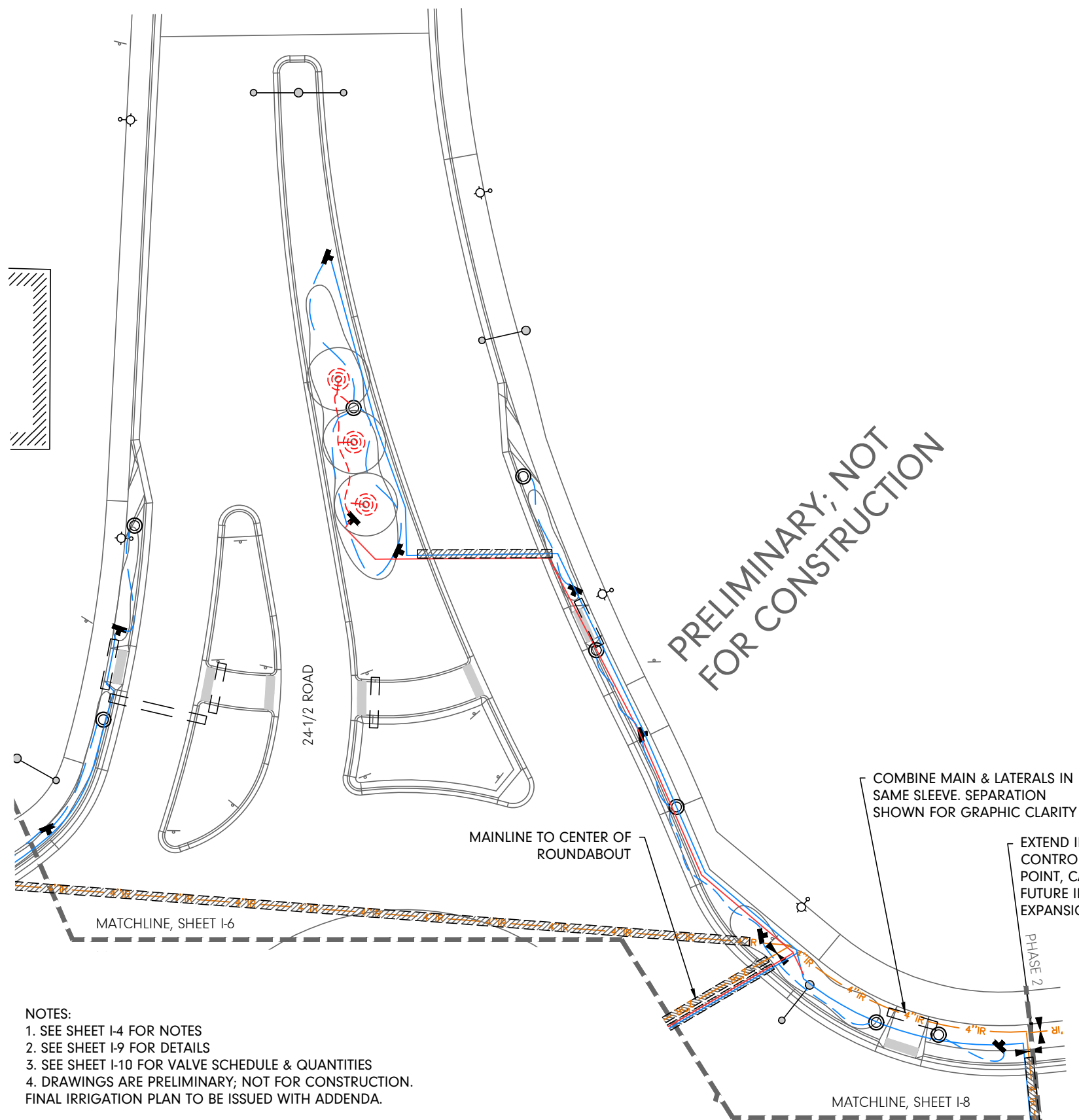
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REVISION Δ			MR	10-31-23	
REVISION Δ			KAH		



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**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-6
November 03, 2023**

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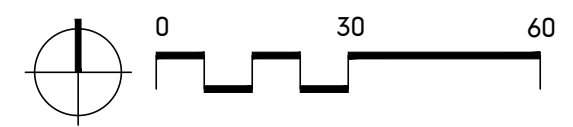


PRELIMINARY; NOT FOR CONSTRUCTION

IRRIGATION LEGEND

- SDR 11 HDPE MAIN, 4"
- LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
- LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
- TREE DRIPPER LINE DETAIL F/I-9
- SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
- 1/2" DRIP TUBE FOR SHRUB ZONES
- 1/2" DRIP TUBE FOR TREE ZONES
- 1-1/2" PIPE SIZING
- 6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
- 4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS
- ISOLATION VALVE DETAIL B/I-9
- MANUAL DRAIN VALVE DETAIL A/I-1
- RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
- COMPRESSION "T" FITTING
- QUICK COUPLER VALVE DETAIL E/I-9
- DRIP ZONE FLUSH BOX DETAIL F/I-9
- IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
- PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

- NOTES:
1. SEE SHEET I-4 FOR NOTES
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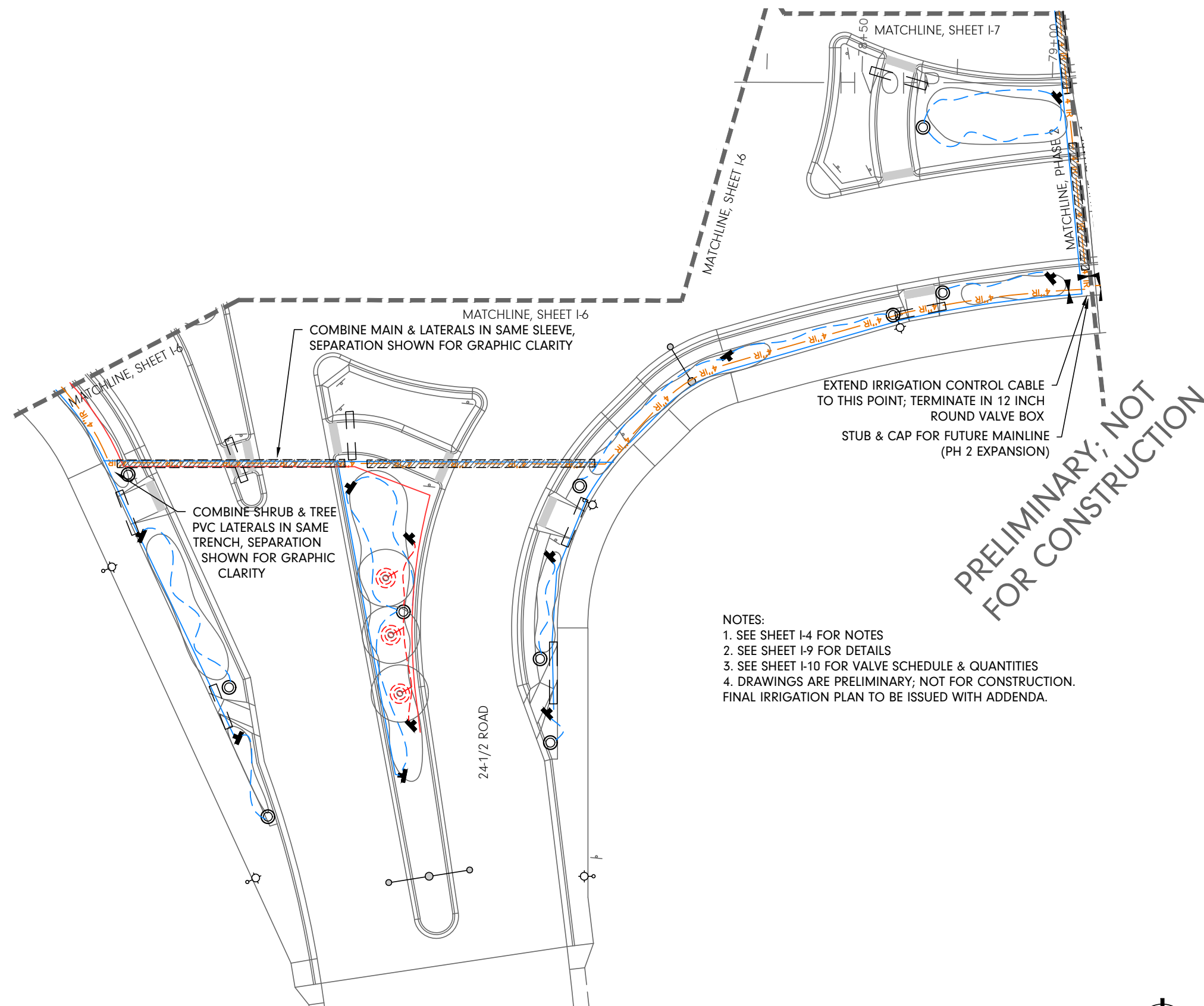
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△			KAH		










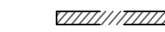
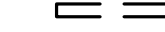









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**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-7
November 03, 2023**

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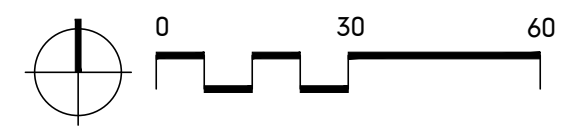


IRRIGATION LEGEND

-  SDR 11 HDPE MAIN, 4"
-  LATERAL PVC PIPING FOR SHRUB ZONES; 1" UNLESS NOTED OTHERWISE
-  LATERAL PVC PIPING FOR TREE ZONES; 1" UNLESS NOTED OTHERWISE
-  TREE DRIPPER LINE DETAIL F/I-9
-  SHRUB DRIPPER LINE DETAIL F/I-9; (MAYBE USE)
-  1/2" DRIP TUBE FOR SHRUB ZONES
-  1/2" DRIP TUBE FOR TREE ZONES
-  PIPE SIZING
-  6" SCHED. 80 IRRIGATION SLEEVE, DETAIL C/I-9
-  4" PVC SLEEVING AT 30" BURY UNDER ROADWAYS, 18" UNDER WALKS
-  ISOLATION VALVE DETAIL B/I-9
-  MANUAL DRAIN VALVE DETAIL A/I-1
-  RAINBIRD PESB ZONE VALVE, SIZE PER VALVE SCHEDULE DETAIL A/I-9
-  COMPRESSION "T" FITTING
-  QUICK COUPLER VALVE DETAIL E/I-9
-  DRIP ZONE FLUSH BOX DETAIL F/I-9
-  IRRIGATION CONTROL SYSTEM GROUND, DETAIL L/_-9
-  PRESSURE/AIR RELIEF VALVE ASSEMBLY DETAIL D/I-9

- NOTES:
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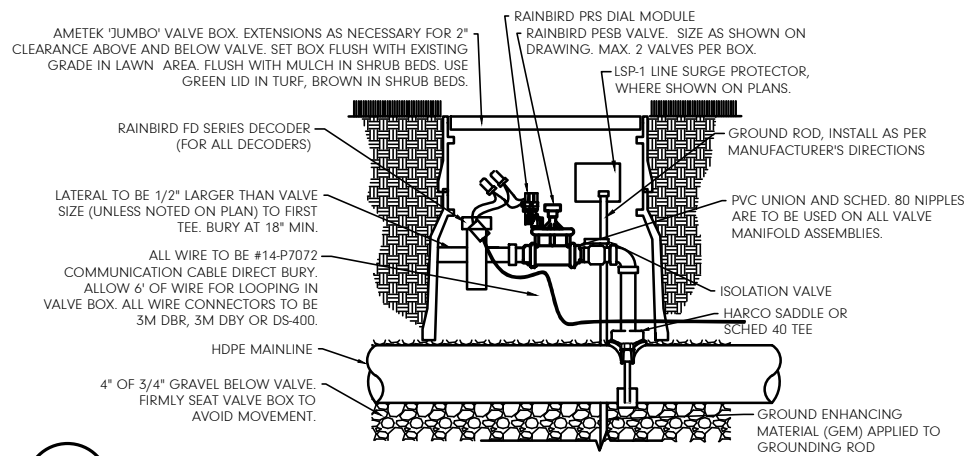
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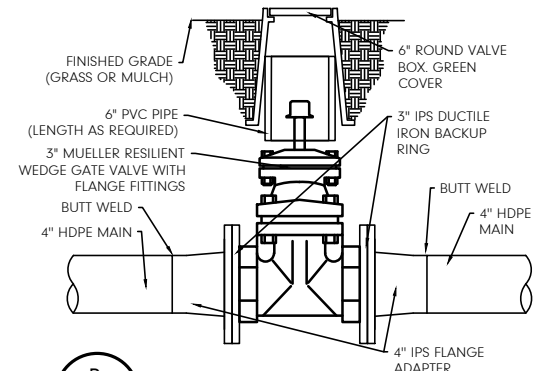
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**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION PLAN-8
November 03, 2023**

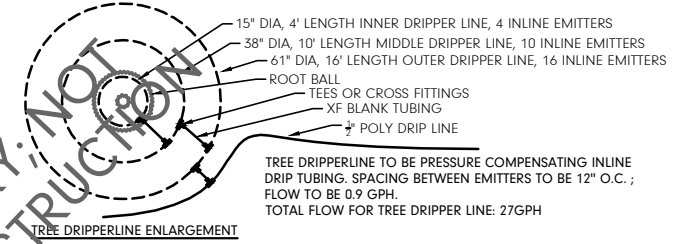
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A RAINBIRD PESB VALVE W/ 2 WIRE CONTROL
1-9 NOT TO SCALE



B ISOLATION VALVE
1-9 NOT TO SCALE



TUBING PLACEMENT AND LIMITS

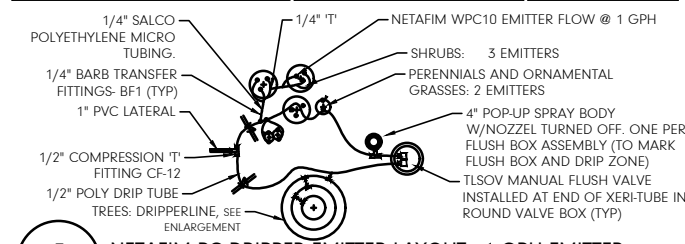
1/2" DISTRIBUTION TUBE: MAX. 200 GPH PER LENGTH (200 EMITTERS) LESS 27 GPH PER TREE. MAX. 200' LENGTH. EACH BRANCH TO END WITH FLUSH CAP IN 6" ROUND VALVE BOX.
1/4" DISTRIBUTION TUBE: MAX. 12 GPH PER LENGTH (12 EMITTERS). MAX. 10' LENGTH. CONNECTION WITH 1/2" TUBE TO BE 1/4" COUPLER, NOT PC DRIPPER. ALL TUBING TO BE PLACED BELOW WEED CONTROL FABRIC (WHERE FABRIC OCCURS). TUBING TO BE STAKED AT EMITTER AND AT MAX 5' INTERVALS WITH MIN. 8" STAPLES. 1/4" TUBING TO BE SALCO POLYETHYLENE MICRO TUBING.

EMITTER PLACEMENT

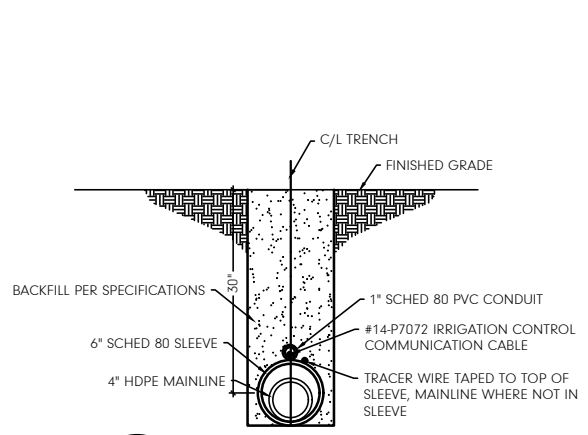
ALL EMITTERS ARE TO BE PLACED AND STAKED AT PERIMETER OF ROOT BALL. EVENLY SPACE EMITTERS AROUND ROOT BALL PERENNIALS AND ORNAMENTAL GRASSES: TWO (2) PC DRIPPERS PER PLANT
SHRUBS: THREE(3) PC DRIPPERS PER PLANT
TREES: 3 DRIPPER LINE RINGS: 7-1/2", 19" & 30" FROM CENTER OF ROOTBALL, TUBE IS TECHLINE CV, 12" DRIPPER SPACING, 0.9 GPH INLINE EMITTERS, 27 GPH PER TREE

FLUSHBOX LOCATION

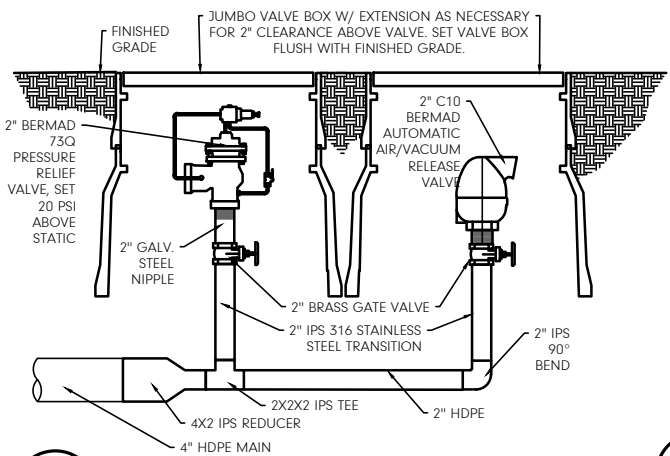
MINIMIZE NUMBER OF FLUSH BOXES. LOCATE ADJACENT TO WALKS OR DRIVES FOR MAINTENANCE ACCESS. INSTALL 1800 SPRAY W/NOZZLE CLOSED. SPRAY HEAD IS TO INDICATE WHEN ZONE IS ON AND LOCATION OF FLUSH BOX.



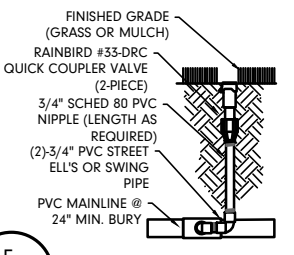
F NETAFIM PC DRIPPER EMITTER LAYOUT - 1 GPH EMITTER
1-9 NOT TO SCALE



C IRRIGATION MAINLINE/CONTROL CABLE TRENCH DETAIL
1-9 NOT TO SCALE



D AIR RELIEF AND PRESSURE RELIEF VALVES
1-9 NOT TO SCALE



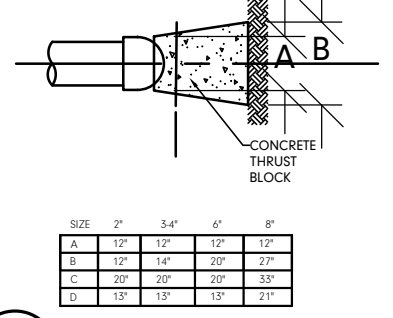
E QUICK COUPLER VALVE
1-9 NOT TO SCALE

NOTE:
1. DO NOT POUR CONCRETE THRUST BLOCK OVER PIPE, ONLY OVER FITTINGS
2. BEARING SURFACE OF THRUST BLOCKS TO BEAR ON UNDISTURBED SOIL ONLY. OVER EXCAVATION WILL REQUIRE LARGER THRUST BLOCKS.
3. THRUST BLOCKS SHOWN ARE MINIMUM SIZES.

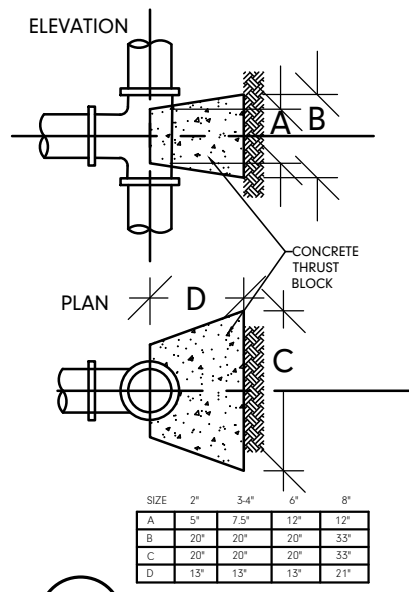
MINIMUM THRUST BLOCK AREA

SIZE	TEE, CAP, 90° EL.	60° - 11.5° EL.
2"	1 SP*	0.5 SP*
3"	1 SP*	0.5 SP*
4"	1.5 SP*	1 SP*
5"	2 SP*	1.5 SP*

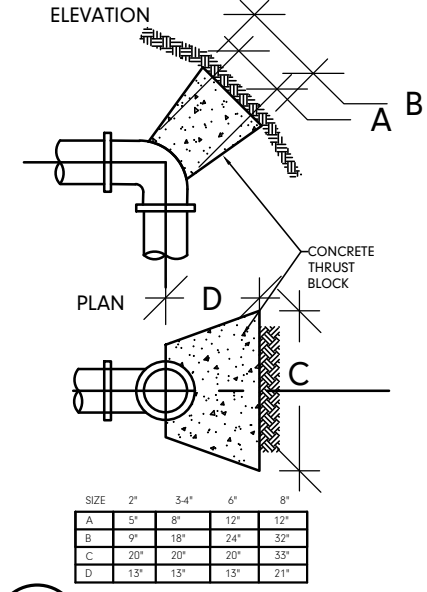
PLAN & ELEVATION



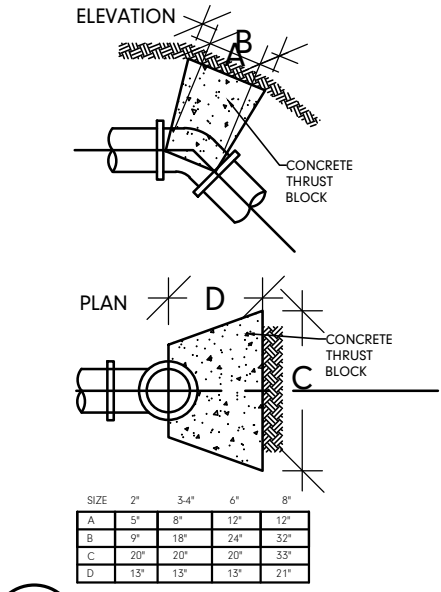
J THRUST BLOCK, PVC CAP
1-9 NOT TO SCALE



G THRUST BLOCK, PVC TEE
1-9 NOT TO SCALE



H THRUST BLOCK, PVC 90° ELBOW
1-9 NOT TO SCALE



I THRUST BLOCK, PVC 11.5°-60° ELBOW
1-9 NOT TO SCALE

NOTES:
1. SEE SHEET I-4 FOR NOTES
2. SEE SHEET I-9 FOR DETAILS
3. SEE SHEET I-10 FOR VALVE SCHEDULE & QUANTITIES
4. DRAWINGS ARE PRELIMINARY; NOT FOR CONSTRUCTION. FINAL IRRIGATION PLAN TO BE ISSUED WITH ADDENDA.



REVISION	DESCRIPTION	DATE	DRAWN BY	DATE	SCALES
REVISION Δ			MH	10-31-23	
REVISION Δ			MH	10-31-23	
REVISION Δ			MR	10-31-23	
REVISION Δ			KAH		



PUBLIC WORKS ENGINEERING DIVISION
PROJECT NO. F2103306

F 1/2 ROAD PARKWAY, PH 1 IRRIGATION DETAILS-9
November 03, 2023

TABULATION OF IRRIGATION QUANTITIES, PHASE ONE

ITEM #	BID ITEM	UNIT	QUANTITY
1	Connect to Existing Main in 24 Road Median	LS	1
2	Bore under existing wash and ready rock wall	LF	122
3	4 Inch PVC Irrigation Sleeve, 18" bury under walks	LF	200
4	4 Inch PVC Irrigation Sleeve, 30" bury under roadways	LF	30
5	6 Inch SDR 80 Irrigation Sleeve, 18" bury under walks	LF	160
6	6 Inch SDR 80 Irrigation Sleeve, 30" bury under roadways	LF	300
7	4" HDPE Mainline	LF	5,333
8	1 Inch PVC Lateral Pipe	LF	9,314
9	1-1/2 Inch PVC Lateral Pipe	LF	3,102
10	Tracer Wire for all Mainline and PVC Lateral Pipes	LF	17,749
11	3/4 Inch Quick Coupler Valve	EACH	1
12	1 Inch Automatic Control Valve	EACH	8
13	2-wire Control Wire	LF	5,333
14	2-wire Control - decoders, grounding	LS	8
15	Jumbo Valve Box	EACH	4
16	Isolation Valves	EACH	15
17	Manual Drain Valves	EACH	1
18	Riser Assembly to Compression Tee (not incl. tree rings)	EACH	124
19	1/2" Drip Tubing, no emitters	LF	9,706
20	Netafim Drip Emitters	LF	4,135
21	Tree Ring Assembly	EACH	120
22	1/2 Inch Flush Box Assembly	EACH	76
23	Air Relief/Pressure Relief Assembly	EACH	1

*Quantities are approximate

PRELIMINARY; NOT FOR CONSTRUCTION

IRRIGATION VALVE SCHEDULE, PHASE ONE

VALVE #	SIZE	ZONE TYPE	# OF EMITTERS	SHRUB DRIP RINGS	TREE DRIP RINGS	GAL/HR	GAL/MIN
#1	1"	TREE DRIP	—	—	0	—	—
#2	1"	SHRUB DRIP	—	0	—	—	—
#3	1"	TREE DRIP	—	—	0	—	—
#4	1"	SHRUB DRIP	—	0	—	—	—
#5	1"	TREE DRIP	—	—	0	—	—
#6	1"	SHRUB DRIP	—	0	—	—	—
#7	1"	TREE DRIP	—	—	0	—	—
#8	1"	SHRUB DRIP	—	0	—	—	—

NOTES:

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REVISION	△	—	MH	10-31-23	
REVISION	△	—	MH	10-31-23	
REVISION	△	—	MR	10-31-23	
REVISION	△	—	KAH	—	



**PUBLIC WORKS
ENGINEERING DIVISION**
PROJECT NO. F2103306

**F 1/2 ROAD PARKWAY, PH 1
IRRIGATION DETAILS-10
November 03, 2023**

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