

NOTE:

1. ENSURE ALL DIMENSIONS AND CLEARANCES COMPLY WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS
2. INSTALLATION MUST BE APPROVED BY LOCAL PLUMBING INSPECTOR
3. ALL MATERIALS TO BE IN ACCORDANCE WITH CURRENT BC PLUMBING CODES
4. UTILITY BOX SHOWN FOR BACK FLOW PREVENTER IS DIAGRAMMATIC
5. PROVISIONS FOR FREEZING WINTER CONDITIONS ARE NOT SHOWN. WHERE CLIMATE REQUIRES, THEY SHALL BE ADDED TO MEET THE REQUIREMENTS OF THE CITY ENGINEER
6. INCLUDE WATTS PRESSURE REDUCING VALVE FOR 25mm LINE
7. RISERS (IF NEEDED, BY AE CONCRETE OR PRE-APPROVED EQUAL)



DRAWING
BACKFLOW PREVENTER

DATE
JUNE-2022

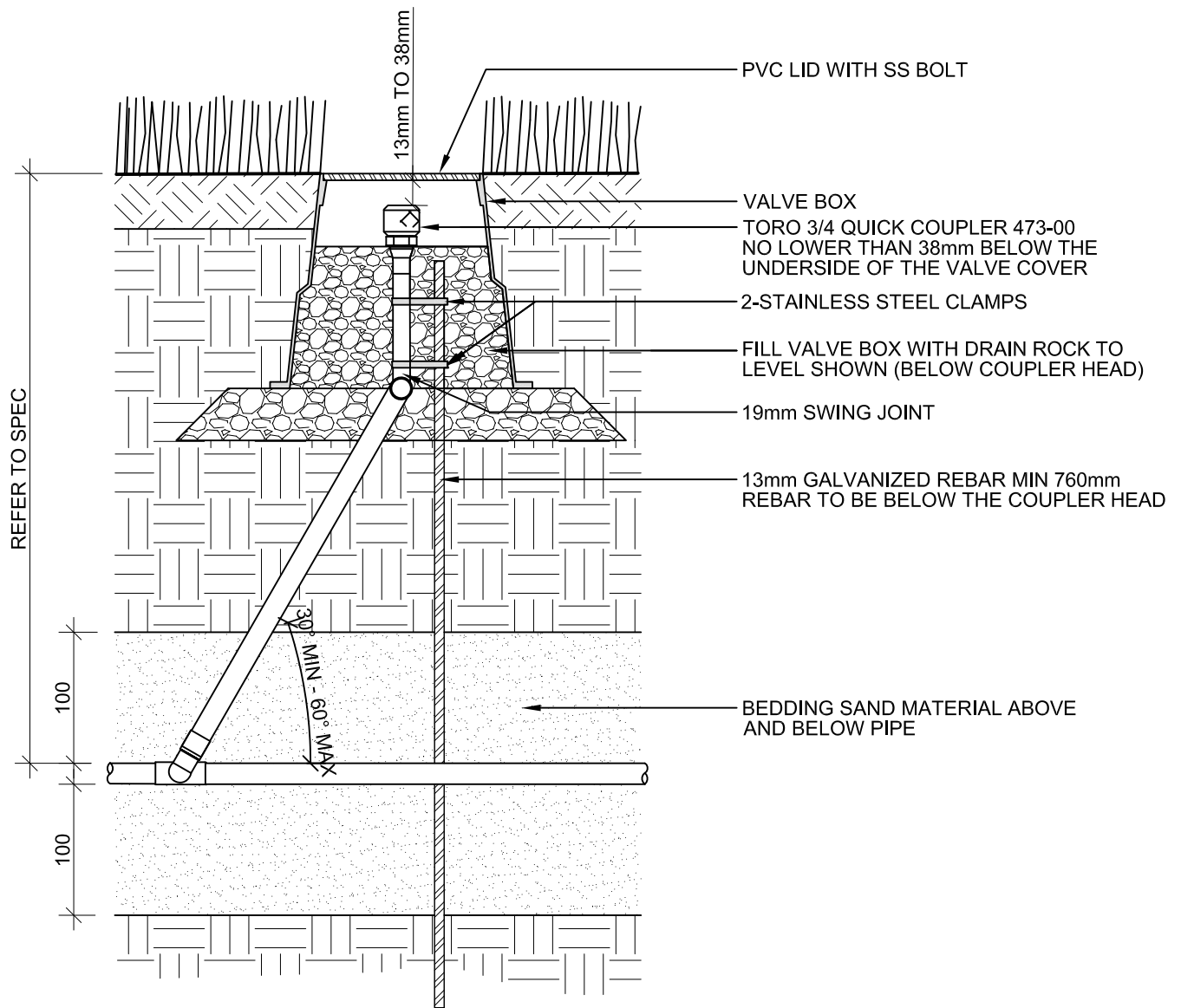
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NOTES

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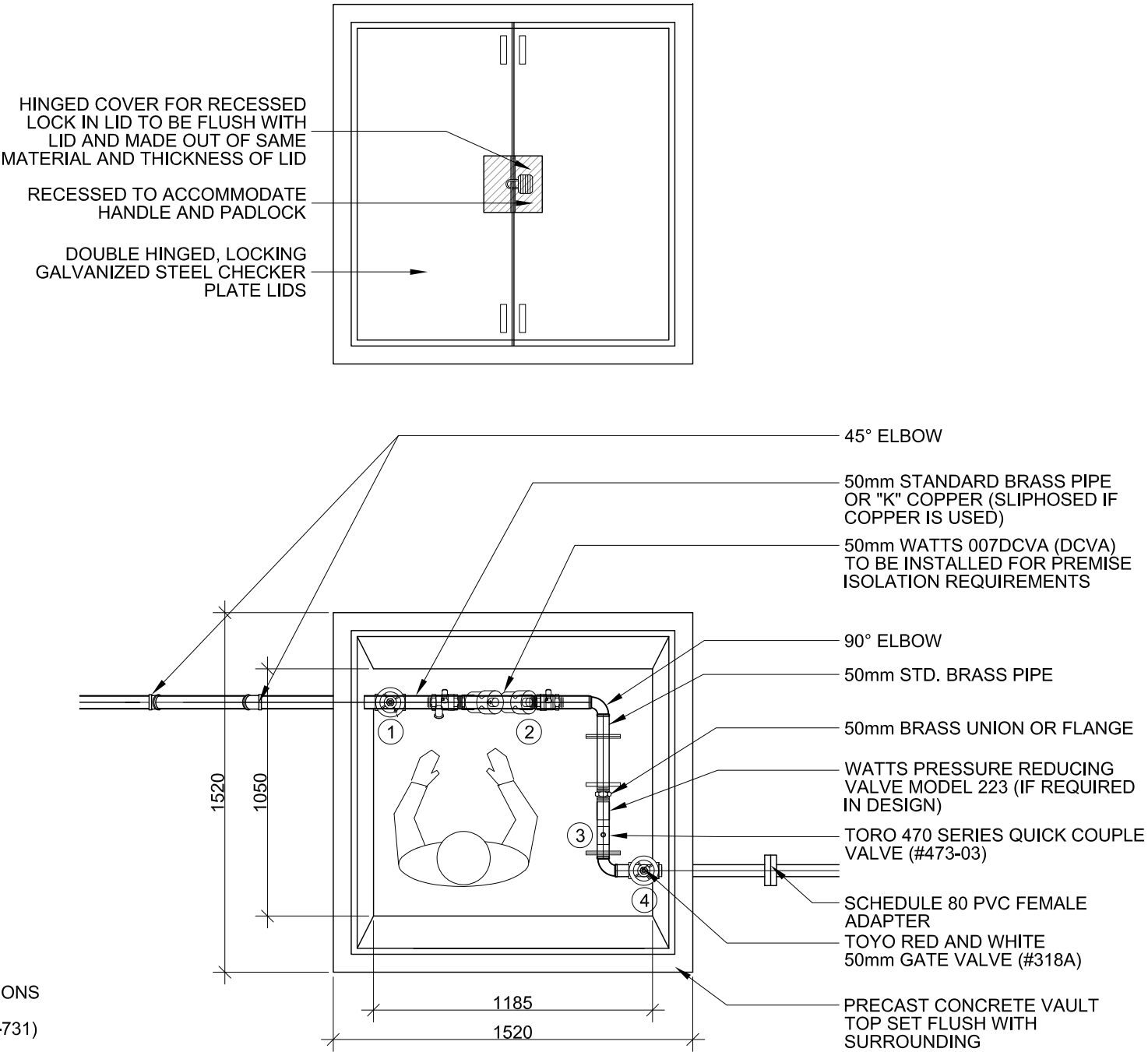
9-01



BILL OF MATERIALS			COMPONENT MODEL NUMBER FOR REQUIRED PIPE SIZES		
ITEM	QTY	DESCRIPTION	38mm	50mm	76mm
1	2	45 ° ELBOW	-	-	-
2	-	50mm STANDARD BRASS PIPE	-	-	-
3	1	WATTS 007 (DCVA) 50mm DOUBLE CHECK VALVE ASSEMBLY	950 XLT	950 XLT	350
4	1	OR "ALTERNATIVE ACCEPTABLE WILKINS (DCVA)" 90° ELBOW	-	-	-
5	1	1.5m SERVICE VAULT - K/O (A.E.CONCRETE PRECAST PRODUCTS)	-	-	*
6	1	RAINBIRD PEB	910P	910P	910P
7	1	TORO 470 SERIES QUICK COUPLE VALVE	473-03	473-03	473-03
8	2	TOYO RED AND WHITE 50mm GATE VALVE	318A	318A	272A
9	1	SCHEDULE 80 PVC FEMALE ADAPTER	-	-	-
10	2	PIPE SUPPORTS TO BE BOLTED TO BASE	-	-	-
11	1	MAINLINE BACKFLOW TERMINAL VALVE AND ASSEMBLY	4963P	49663P	4963P
12	1	WATTS PRESSURE REDUCING VALVE (IF REQUIRED IN DESIGN)	223	223	N223B
13	1	470 QUICK COUPLER WITH TRIPLE SWING JOINT.	-	-	-
14	2	UNISTRUTS AND CLAMPS	-	-	-
15	1	IPEX DWV HUB # 017494	-	-	-

NOTE:

1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE INDICATED
2. VAULT SIZE MAY VARY DUE TO PIPE SIZE AND COMPONENTS REQUIRED
3. SITE MEASURED CONCRETE VAULT TO CONFIRM DIMENSIONS PRIOR TO FABRICATION
4. WIRING TO BE #12AWG, COPPER STANDARD, COLOR CODED IN ACCORDANCE WITH SPECIFICATIONS
5. RIGID PVC TO BE CONTINUOUS BETWEEN KIOSK AND VAULT
6. 50mm METER TO BE INSTALLED (CALL DAN WALKER TO ARRANGE METER INSTALLATION 604-873-731)
7. ALL BREAKS OR IN CONCRETE TO BE PARGED WITH GROUT. VAULT TO BE MASTIC COATED
8. PADLOCK POCKET TO BE WELDED TO FRAME
9. ALL PIPING ENTERING AND EXITING THE VAULT SHOULD BE COPPER OR BRASS



DATE
JUNE-2022

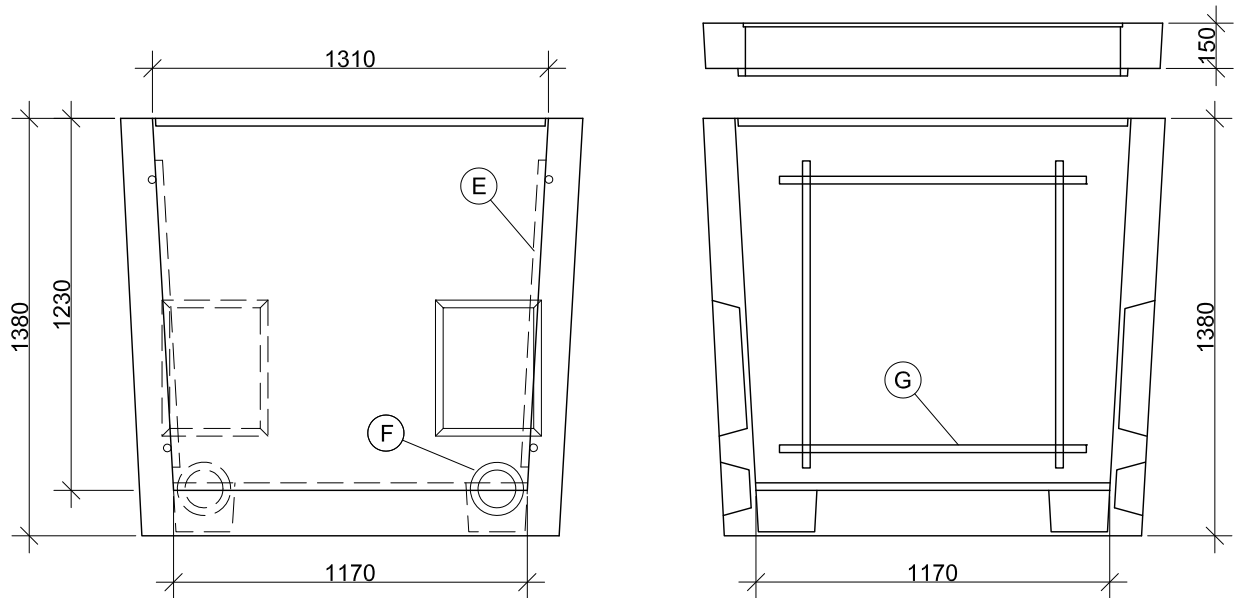
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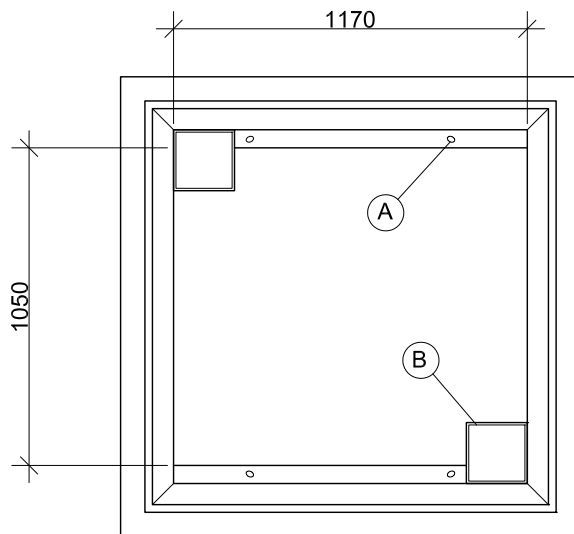
DRAWING
IRRIGATION VAULT
PAGE 1 OF 2

SHEET

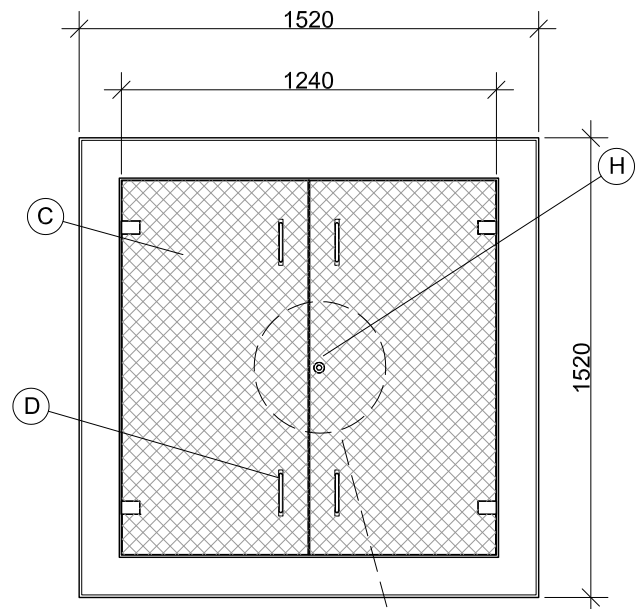
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SECTION



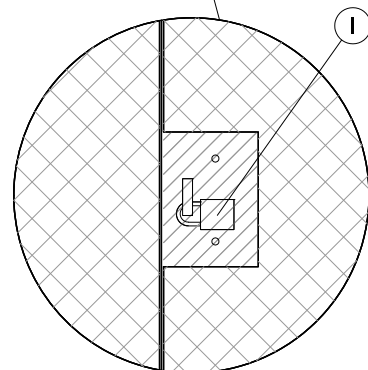
PLAN



- A. 25mm INSERT TYP OF 4
- B. SUMP
- C. GALVANIZED STEEL CHECKER PLATE COVER
- D. LIFTING HANDLE
- E. 4 PIECES CABLE RACKING (1015mm LONG)
- K. K/OUT
- G. 4 PIECES UNISTRUT P-3270 (1015mm LONG)
- H. BOLT DOWN COVER AND RECESSED LOCK
CONFIGURATION TO BE DETERMINED BY VPB
- I. OPTIONAL RECESSED PADLOCK WITH GALVANIZED
STEEL COVER PLATE

NOTE:

1. SUPPLIER: AE CONCRETE PRECAST PRODUCTS LTD.



DRAWING
1.5M SERVICE VAULT

DATE
JUNE-2022

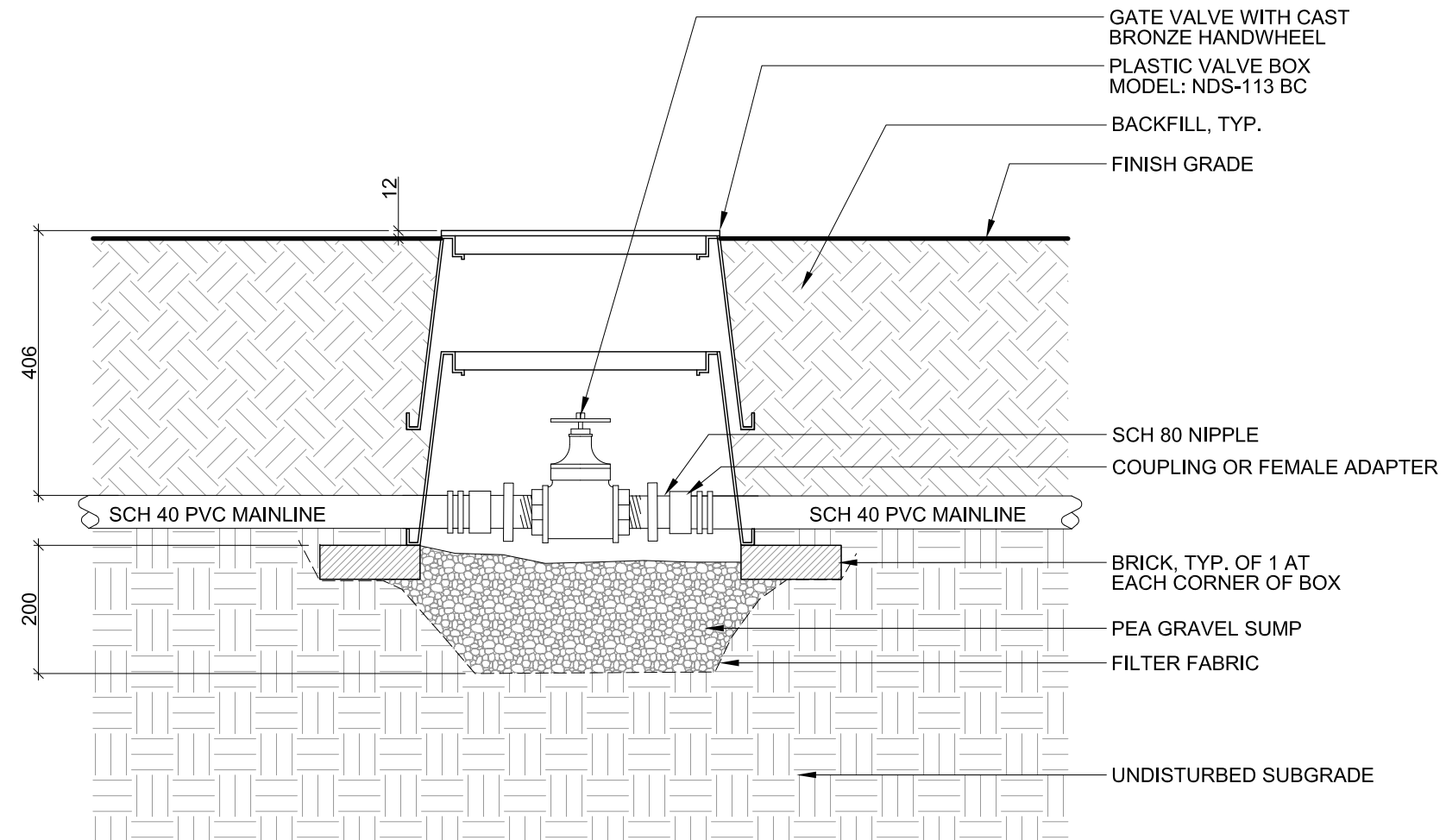
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NOTES

SHEET

9-04



DATE
JUNE-2022

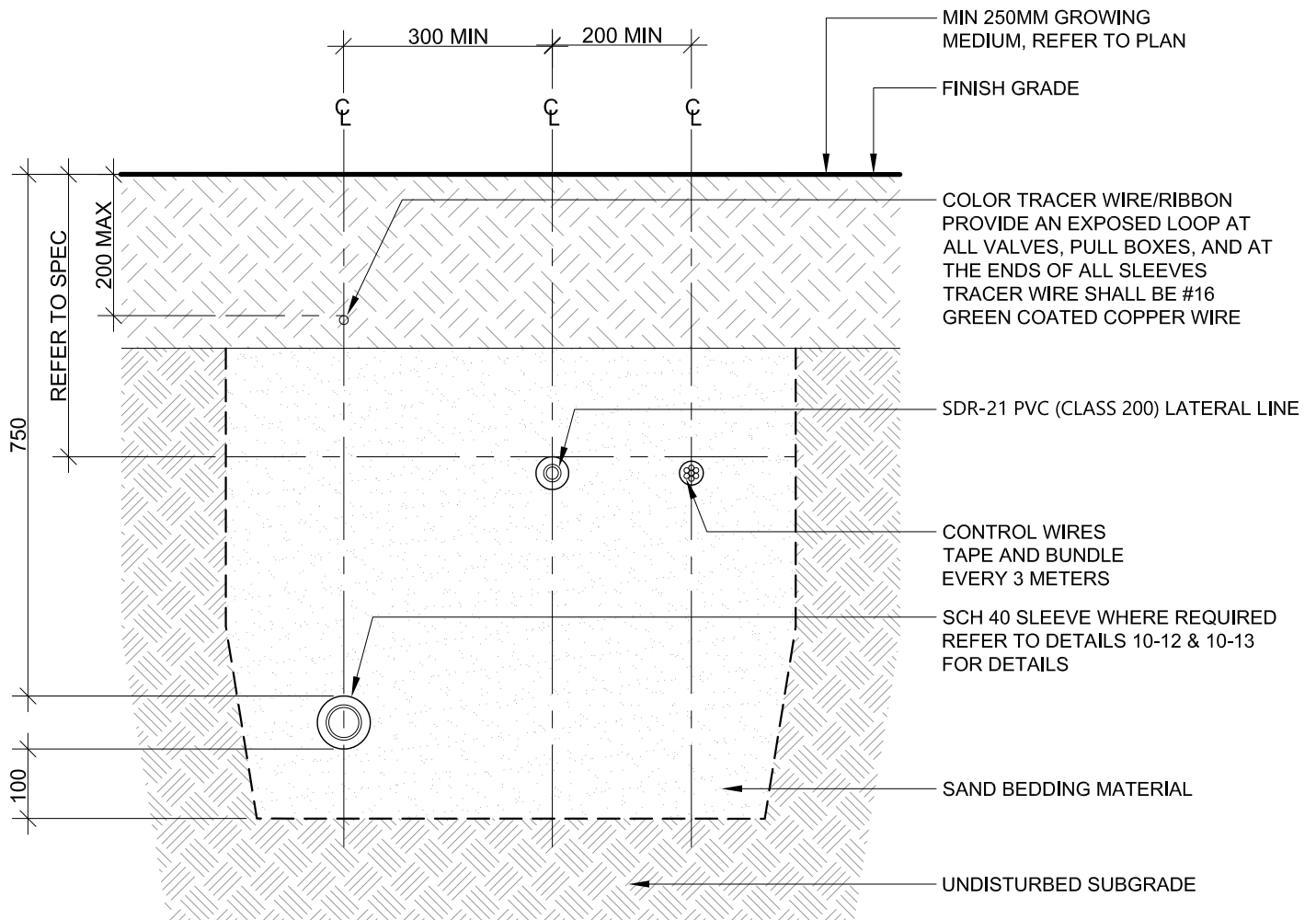
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DRAWING
IRRIGATION MAINLINE
ISOLATION VALVE

SHEET

9-05



NOTES:

1. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. IRRIGATION PIPING TO BE SLEEVED AT ALL LOCATIONS WHERE INSTALLED UNDER PAVED SURFACES.
REFER TO DETAILS 10-12 & 10-13 FOR SLEEVING DETAILS.



DRAWING
IRRIGATION TRENCHING

DATE
JUNE-2022

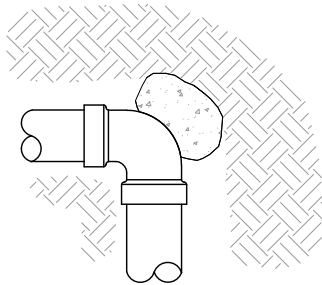
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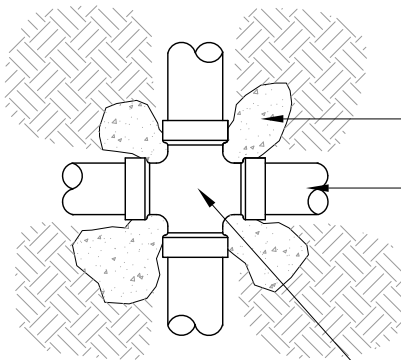
NOTES

SHEET

9-06



ELL

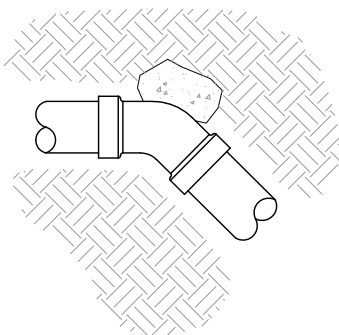


CROSS

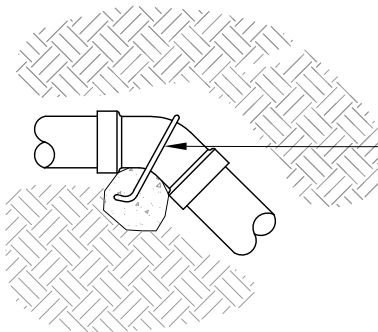
CONCRETE THRUST BLOCK
(TYP.)

PIPE (TYP.)

FITTING (TYP.)

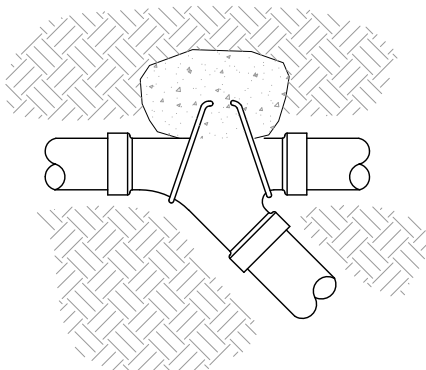


45° ELL

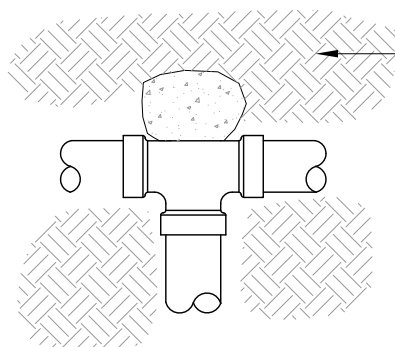


45° ELL

ANCHOR ROD (TYP.)



WYE



TEE

UNDISTURBED SOIL
(TYP.)

NOTES:

1. PLASTIC PIPE SHALL BE INSTALLED ACCORDING TO THESE DETAILS, UNLESS OTHERWISE NOTED ON THE PLANS.
2. SUPPLY LINES 50mm OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
3. ALL ANCHOR RODS SHALL BE GALVANIZED STEEL, MIN. 12mm Ø.
4. SIZE OF THRUST BLOCK: 50mm-75mm PIPE = 4 CU. FT., 100mm PIPE = 5 CU. FT., 150mm PIPE = 6 CU. FT.
5. WRAP ALL EPOXY COATED FITTING W/ 6 MIL PLASTIC PRIOR TO POURING THRUST BLOCK.
6. ALL THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.



DRAWING
THRUST BLOCKS

DATE
JUNE-2022

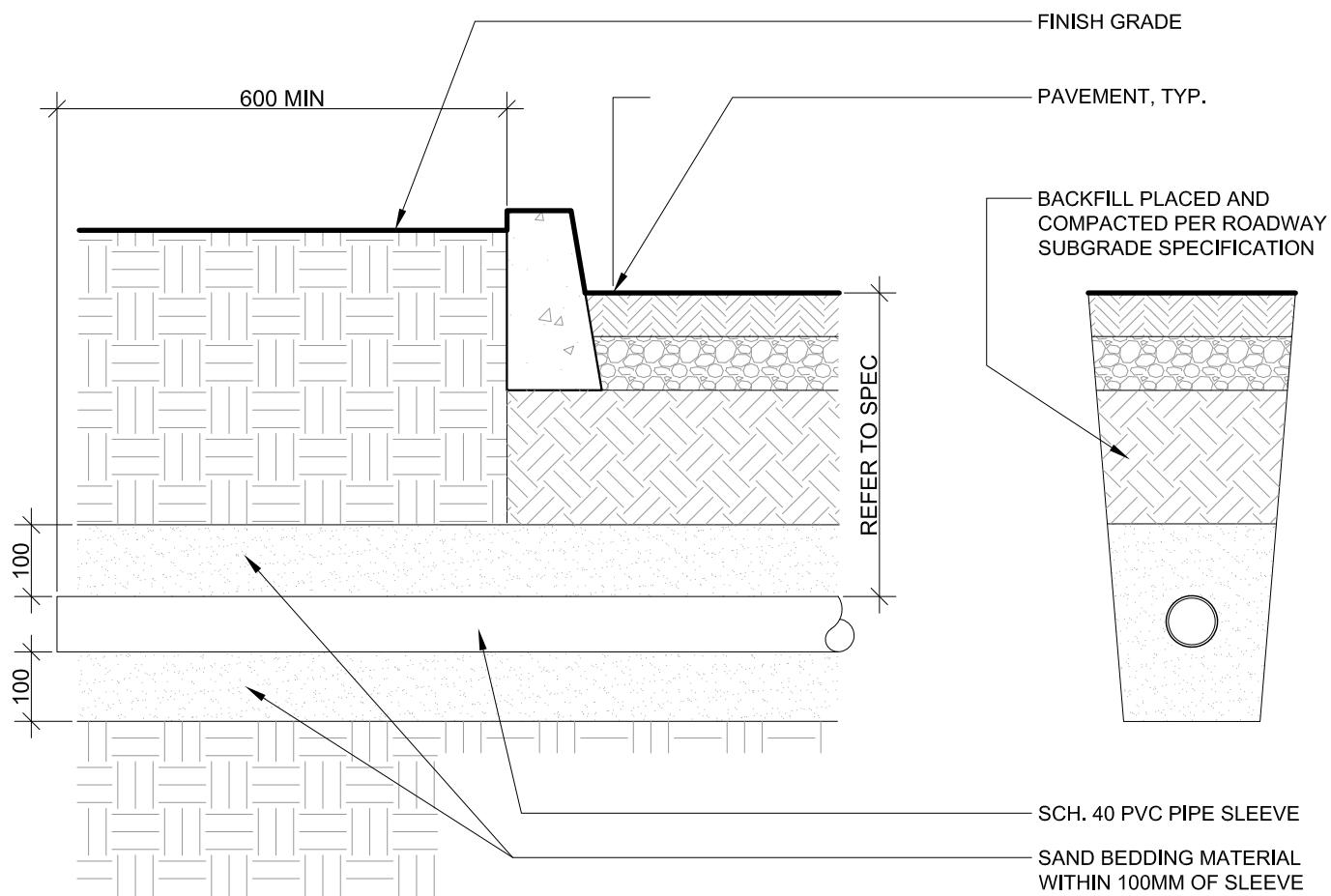
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SCALE
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NOTES

SHEET

9-07



NOTE:

1. DIAMETER OF SLEEVE PIPE TO BE 25mm LARGER THAN DIAMETER OF IRRIGATION PIPE. IF SLEEVING MULTIPLE PIPES, SLEEVE DIAMETER TO BE 25mm LARGER THAN THE COMBINED TOTAL OF ALL PIPES.



DRAWING
SLEEVE AT STREET OR
PARKING

DATE
JUNE-2022

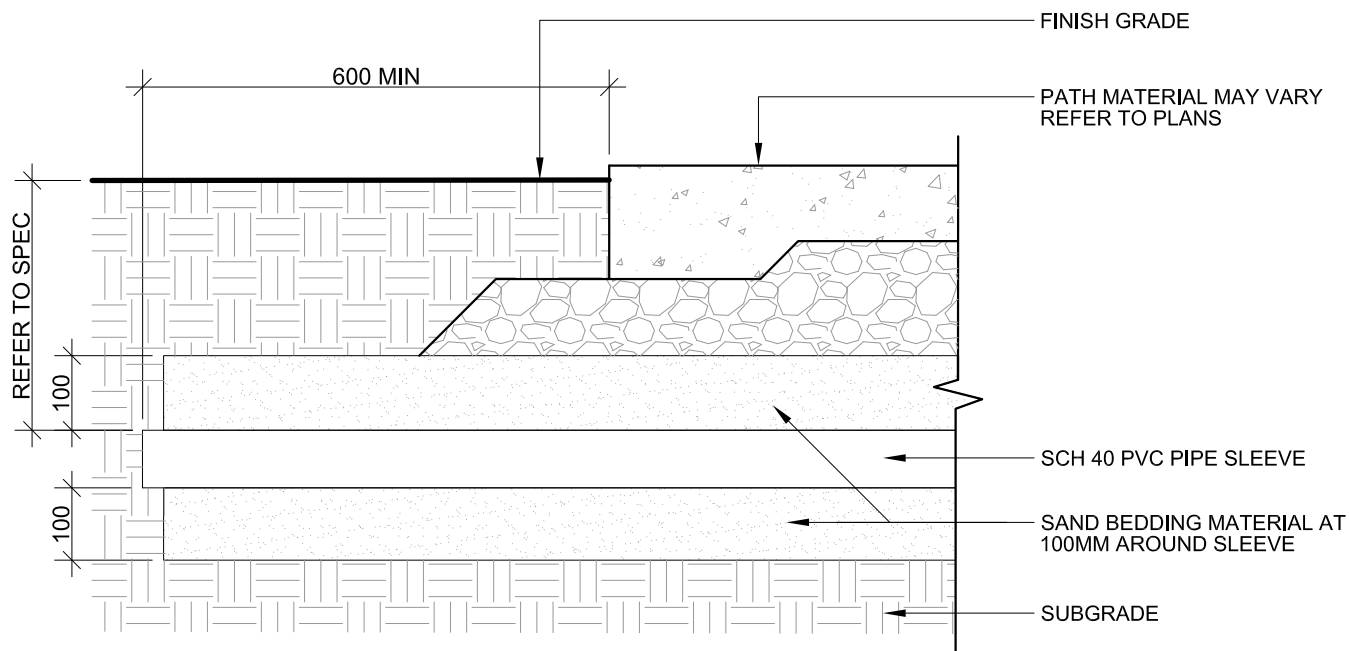
REV

SCALE
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NOTES

SHEET

9-08



NOTE:

1. DIAMETER OF SLEEVE PIPE TO BE 2X LARGER THAN DIAMETER OF IRRIGATION PIPE.
2. IF SLEEVING MULTIPLE PIPES, SLEEVE DIAMETER TO BE 25mm LARGER THAN THE COMBINED TOTAL OF ALL PIPES.
3. WIRES TO BE LOCATED IN SEPARATE CONDUIT
4. PVC SLEEVING IS ACCEPTABLE, EXCEPT IN VEHICULAR PATHWAYS



DRAWING
SLEEVE AT PATH

DATE
JUNE-2022

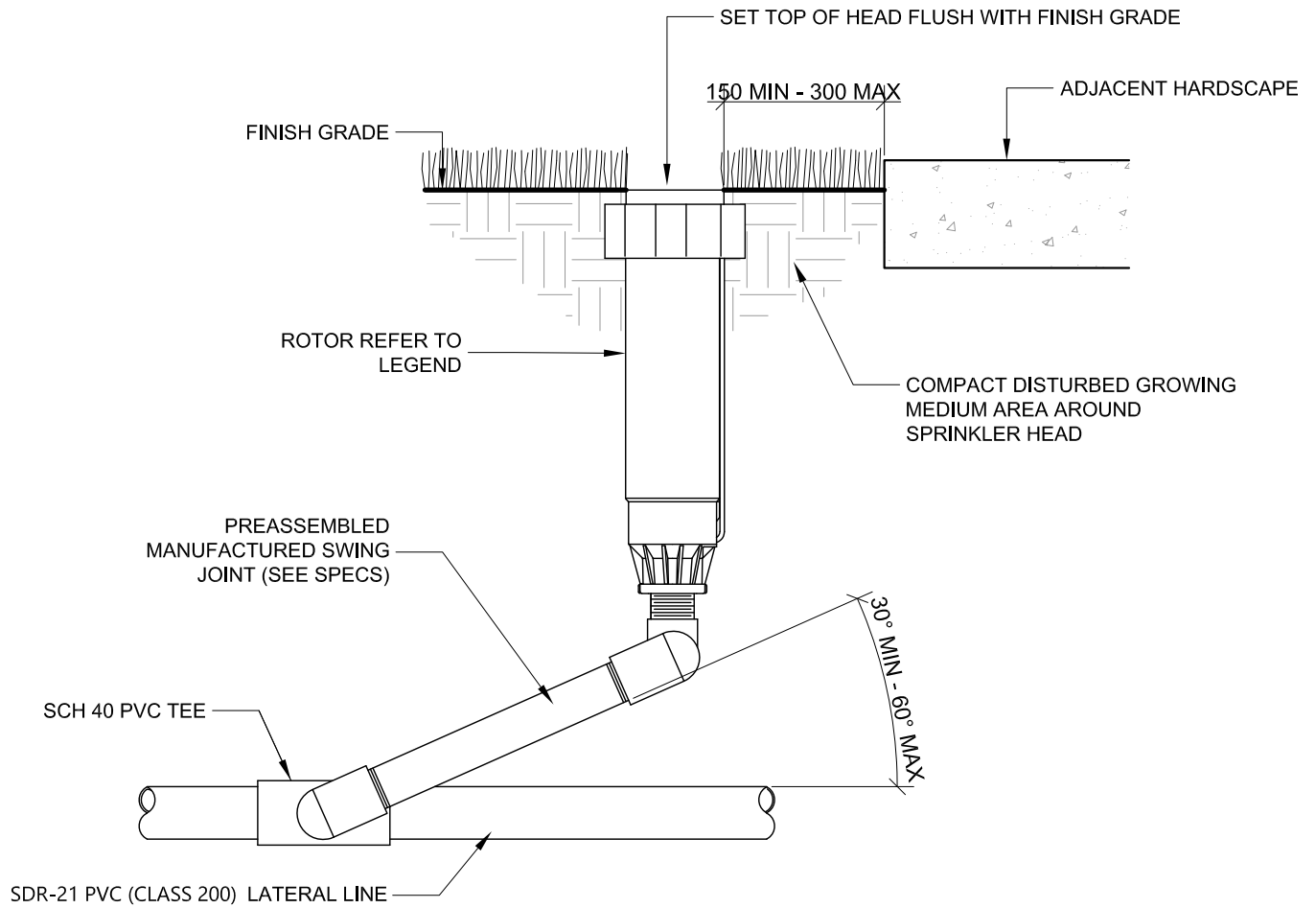
REV

SCALE
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NOTES

SHEET

9-09



NOTE: STREET ELBOW SIZE TO INLET OF SPRAY HEAD



DRAWING
ROTOR SPRAY HEAD

DATE
JUNE-2022

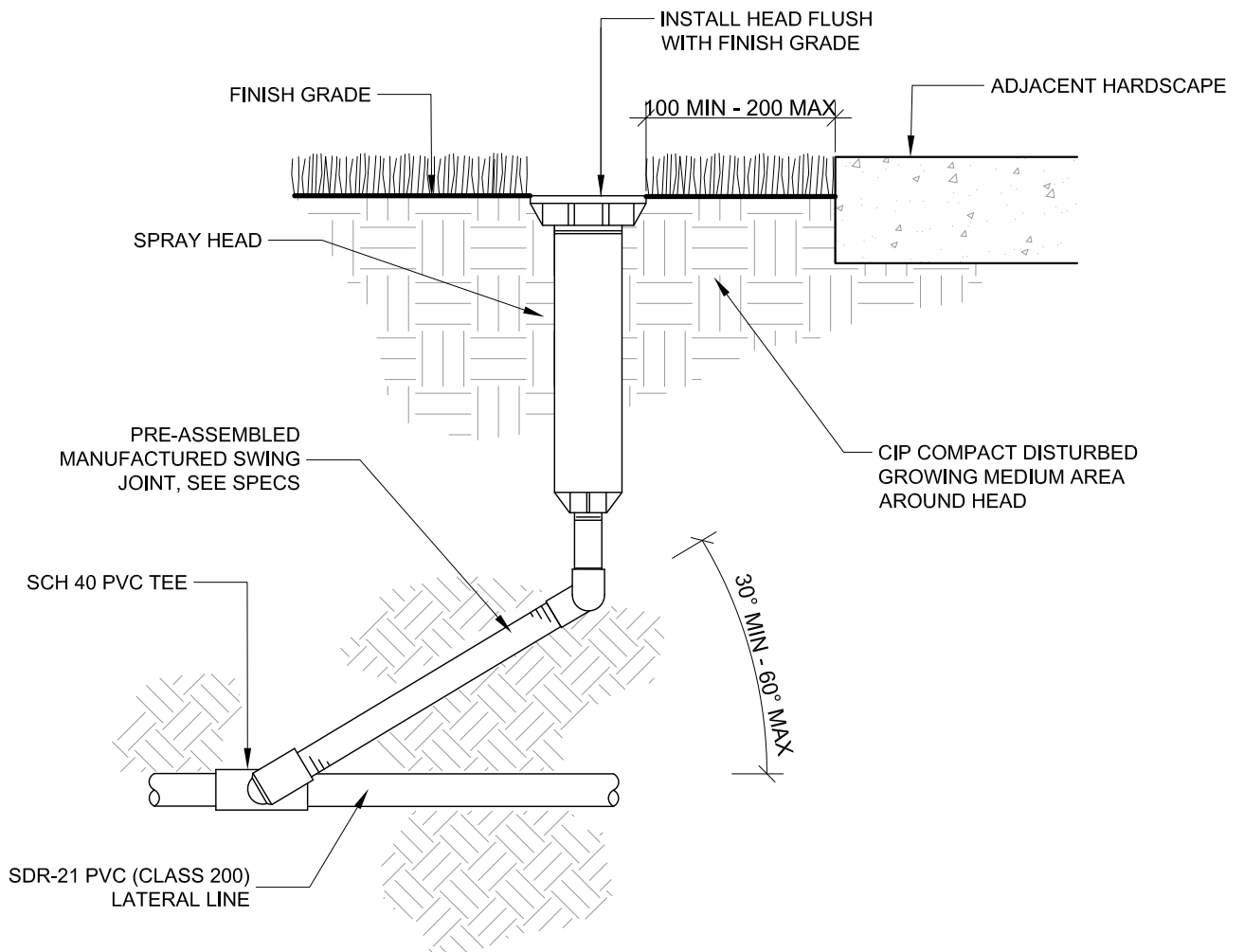
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SCALE
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NOTES

SHEET

9-10



NOTE: STREET ELBOW SIZE TO INLET OF SPRAY HEAD



DRAWING
POP-UP SPRAY HEAD

DATE
JUNE-2022

REV

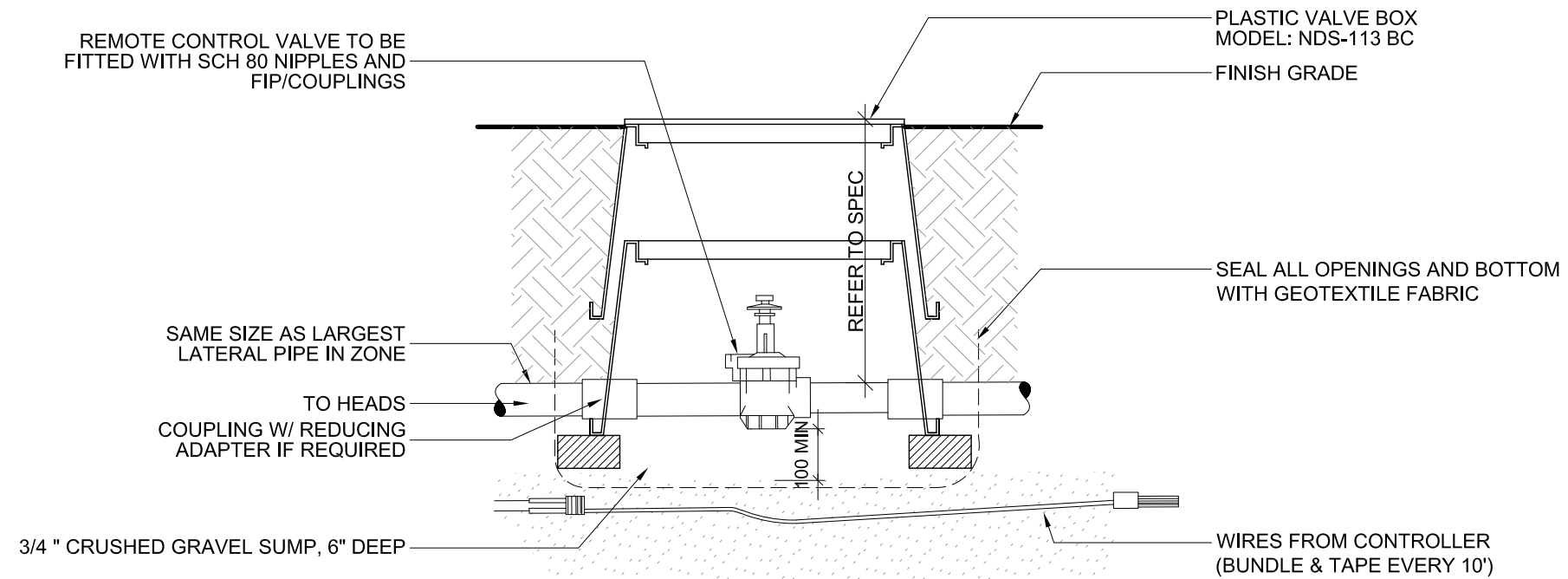
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NOTES

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SHEET

9-11



NOTES:

1. ALL WIRE TO BE INSTALLED & SUPPLIED PER LOCAL CODE.
2. PROVIDE EXPANSION COIL AT EACH CONNECTION IN VALVE BOX (COIL WIRE AROUND 1/2" PIPE 10 TIMES).
3. VALE WILL BE SIZED ACCORDING TO FLOW REQUIRED.

DATE
JUNE-2022

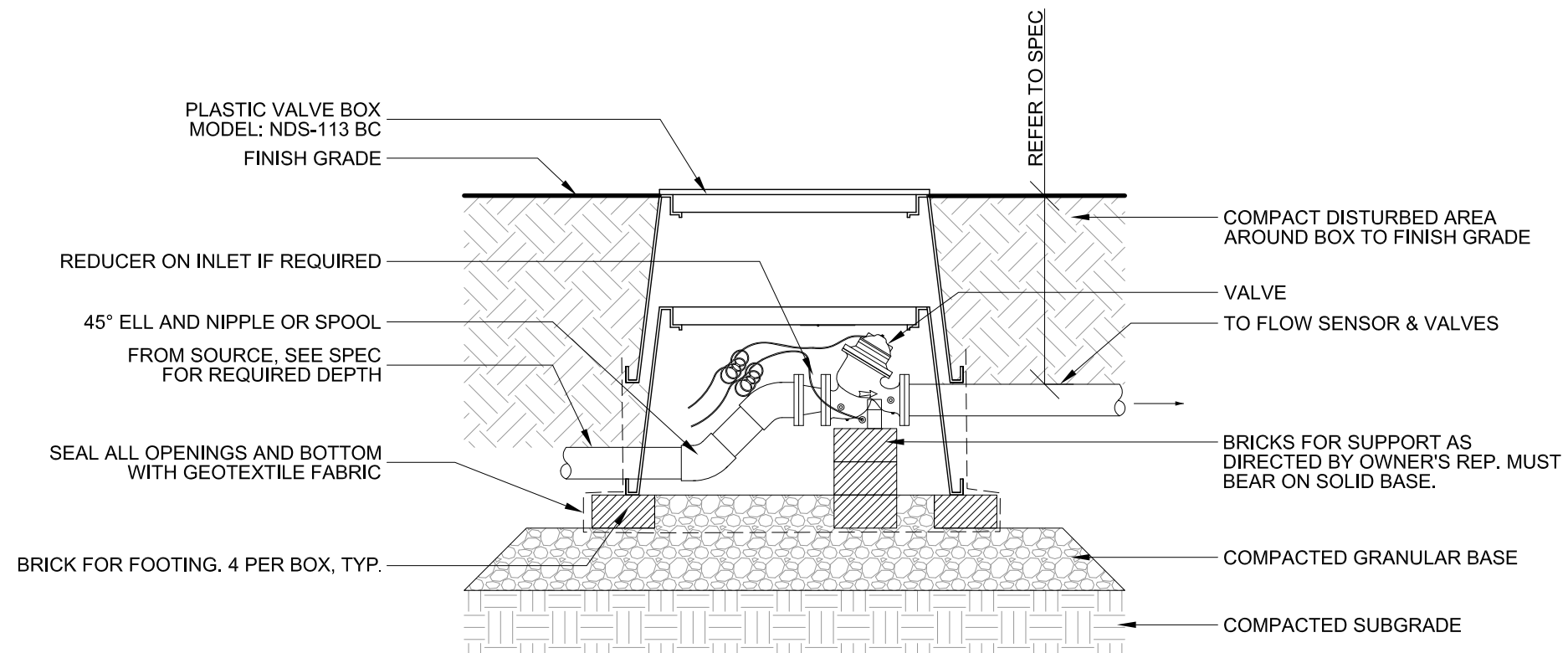
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DRAWING
REMOTE CONTROL
VALVE ASSEMBLY

SHEET

9-12



NOTES:

1. SEE PLAN & SPECIFICATIONS FOR OPTIONS REQUIRED ON VALVE APPLICATIONS (SUCH AS, N.O./N.C./PRESS. REG., LOW WATT SOLENOIDS)
2. FOR VALVES 3" AND LARGER USE FLANGED MASTER VALVE IRON FITTINGS INCLUDING 45° ELLS AND REDUCERS. FOR VALVES 2 1/2" AND SMALLER USE THREADED MASTER VALVE AND SCH. 80 PVC FITTINGS. 45° ELLS TO BE SxS.

DATE
JUNE-2022

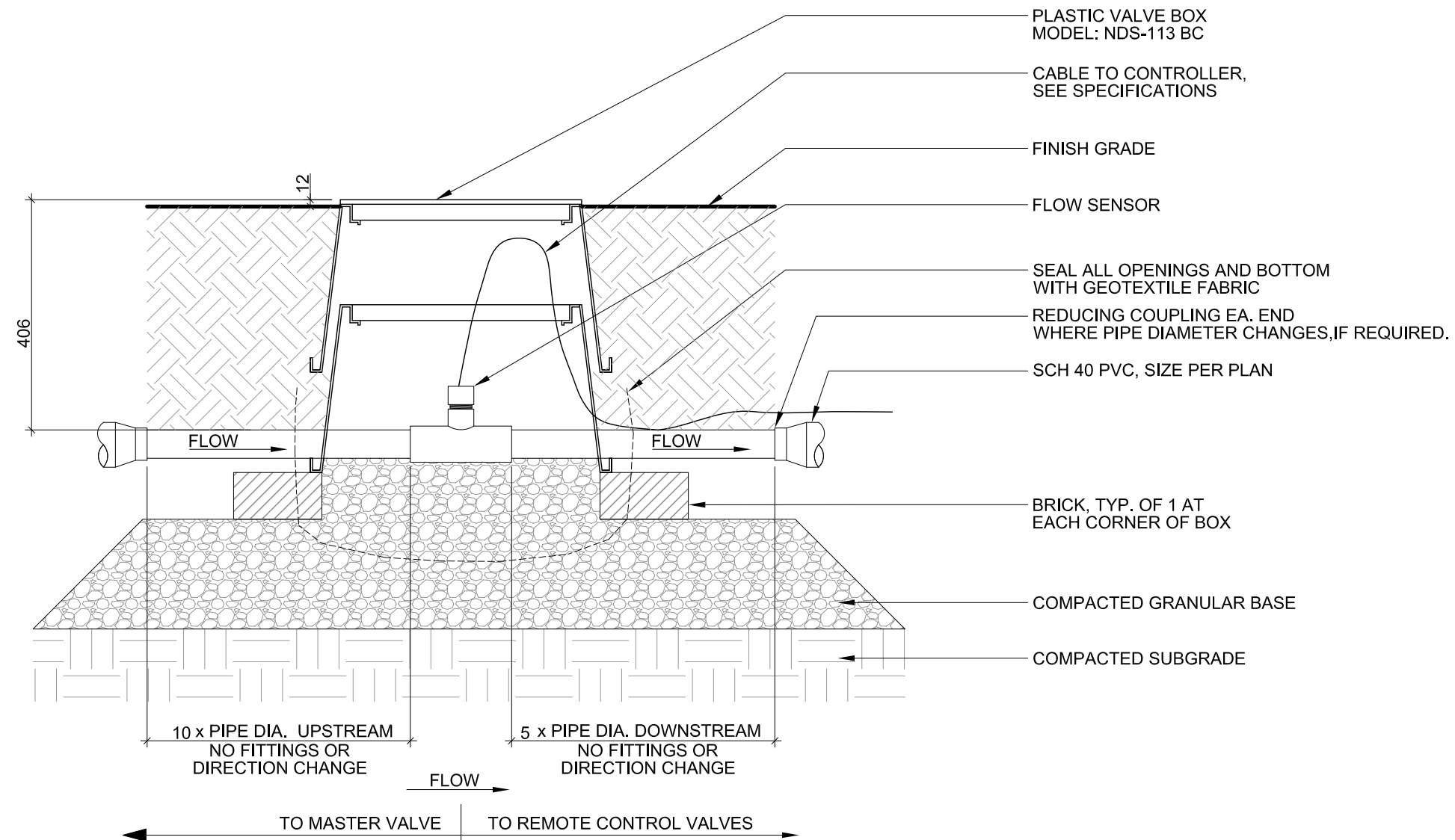
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DRAWING
MASTER VALVE
ASSEMBLY

SHEET

9-13



NOTE:

STREET ELBOW SIZE TO INLET OF SPRAY HEAD

DATE
JUNE-2022

REV

SCALE
1:10

DRAWING
FLOW SENSORY
ASSEMBLY

SHEET

9-14