SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY

- **CONSTRUCTION DETAILS**
- **CONSTRUCTION NOTES**
- **PUBLIC WORKS APPROVED MATERIALS LIST**

EFFECTIVE 2024

SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
CONSTRUCTION DETAILS

TABLE OF CONTENTS

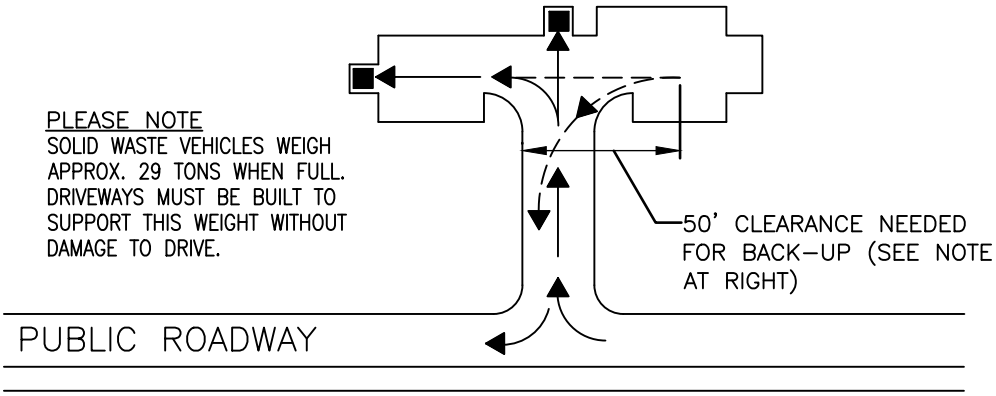
4400 SERIES: SEWER INFORMATION

4500 SERIES: IRRIGATION INFORMATION

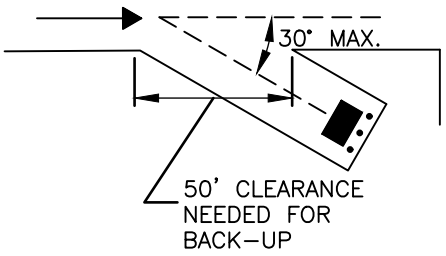
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY PUBLIC WORKS CONSTRUCTION NOTES

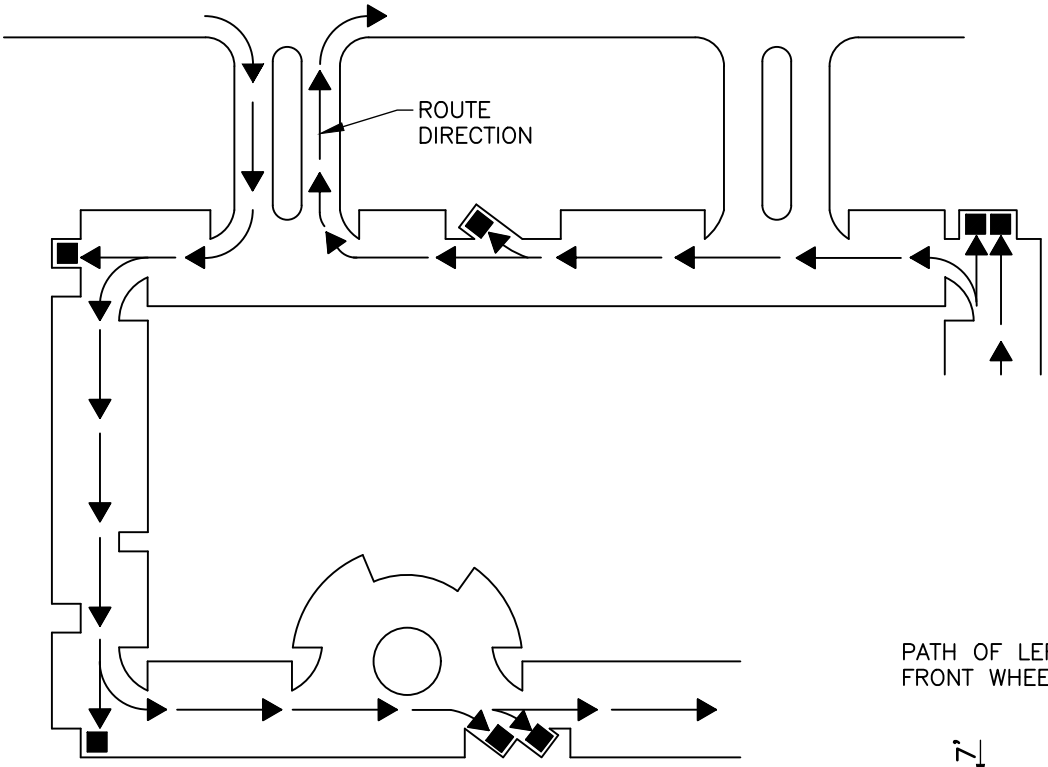
SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY PUBLIC WORKS APPROVED MATERIALS LIST

HAMMER HEAD DRIVE

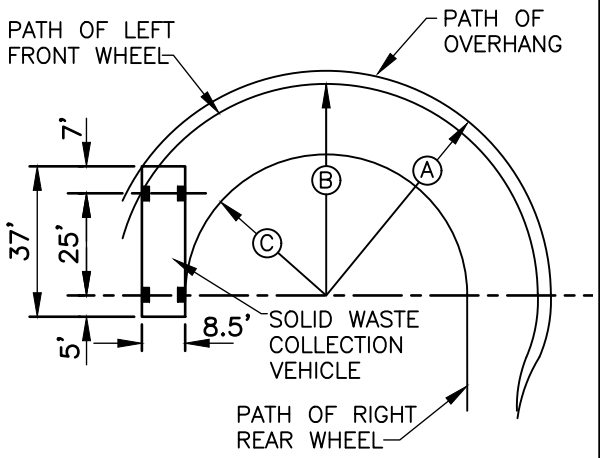


MAX. BIN DEVIATION





A TYPICAL SOLID WASTE COLLECTION ROUTE



SAFETY NOTE

BACKING UP MORE THAN 50' AFTER SERVICE TO A SOLID WASTE BIN IS PROHIBITED. THE 50' IS MEASURED FROM THE BACK OF THE SOLID WASTE COLLECTION VEHICLE. MAKE SURE THE AREA HAS THE PROPER TURNING RADIUS AND ACCESS AREA TO LEAVE SITE. THE VEHICLE IS APPROX. 37' LONG. SOLID WASTE COLLECTION VEHICLES WILL NOT TURN WHILE BACKING.

(A) 44' MIN. TURNING RADIUS
(B) 43'-2" TURNING RADIUS
(C) 29'-3" TURNING RADIUS

N.T.S.

STANDARDS FOR SOLID WASTE VEHICLE ACCESS

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	DETAIL NO.
2018	CONSTRUCTION DETAIL	4100-1

CLEARANCE REQUIREMENTS

NOTES

1. ALL CURBS ARE TO BE ALIGNED ON THE OUTSIDE OF ENCLOSURE WALLS. THE CURBS SHALL NOT INTERFERE WITH THE ROUTE OF THE SOLID WASTE COLLECTION VEHICLE.

2. IN GENERAL TERMS, ALL SOLID WASTE COLLECTION ROUTES SHALL MEET ENGINEERING DESIGN CRITERIA (STREET WIDTHS, TURNING RADIUS) IN A MANNER THAT ALLOWS SOLID WASTE COLLECTION VEHICLES ACCESS TO BIN ENCLOSURES. SITES SHALL BE DESIGNED SO COLLECTION VEHICLES CAN SAFELY ACCESS AND LIFT A BIN WITHOUT OBSTRUCTIONS (GROUND LEVEL AND AERIAL OBSTRUCTIONS).

3. FOR THE SAFETY OF OTHERS, SOLID WASTE COLLECTION VEHICLES WILL NOT BACK UP MORE THAN 50 FEET AFTER SERVICING A BIN AND WILL NOT MAKE ANY TURNS WHILE BACKING.

4. NO AWNINGS OR BUILDING PROJECTIONS ALLOWED IN SOLID WASTE COLLECTION VEHICLE ROUTES. MINIMUM OVERHEAD CLEARANCE OF 14' IS REQUIRED IN DRIVE, 20' OVER BARREL SERVICE LOCATION AND 25' OVER BIN ENCLOSURE AREA.

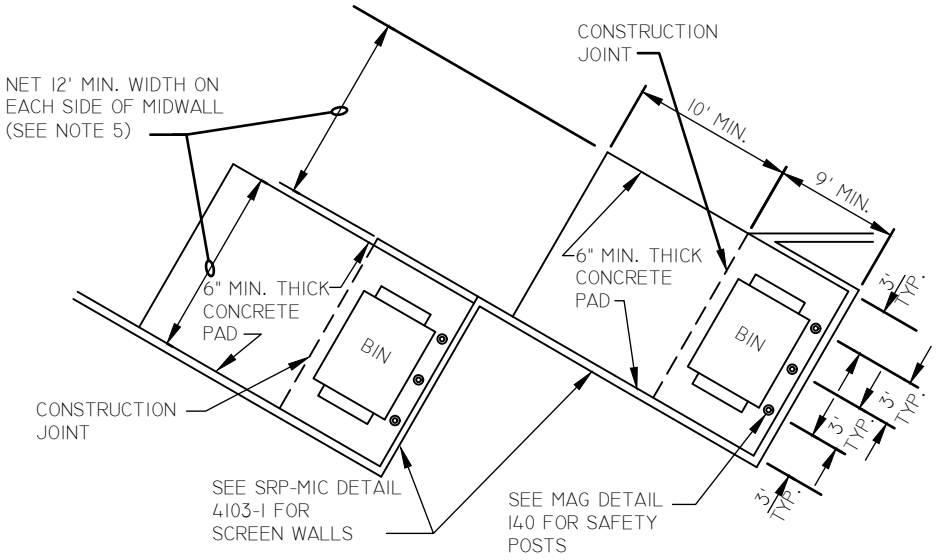
5. ROUTES SHALL BE CLEAR OF ALL OBSTRUCTIONS (CURBS, WALLS, OVERHEAD WIRES, AND AWNINGS) TO PREVENT DAMAGE FROM THE COLLECTION VEHICLE.

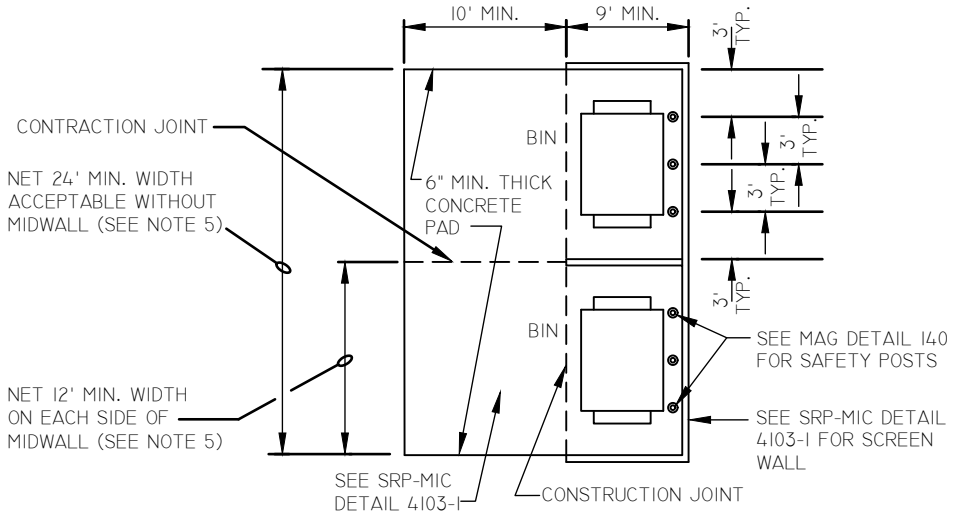
6. TAKE NOTE OF THE SOLID WASTE COLLECTION ROUTE. THE COLLECTION VEHICLE SHALL TRAVEL THROUGH A SITE ONCE WITHOUT BACKTRACKING.

7. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.

8. BIN ENCLOSURES SHALL BE LOCATED AWAY FROM ENTRANCES AND EXITS OR BUSINESS DRIVE–THRU'S SO SOLID WASTE COLLECTION VEHICLE DOES NOT CREATE A SAFETY HAZARD BY BLOCKING IN–COMING OR OUT–GOING TRAFFIC.

9. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE–WIDE BIN ENCLOSURES ARE ADDRESSED IN SRP–MIC DETAILS 4101–1, 4101–2, AND 4102.





DOUBLE-WIDE BIN ENCLOSURE CONFIGURATIONS

N.T.S.

DOUBLE–WIDE BIN ENCLOSURES

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2018		4101–1

NOTES

1. ALL COMMERCIAL PROPERTIES SHALL BE DESIGNED WITH ENCLOSURES TO ACCOMMODATE (1) REFUSE AND (1) RECYCLING ENCLOSURE FOR EVERY 20,000 SQUARE FEET OF BUILDING SPACE. RESTAURANTS WHICH ARE DESIGNED ON A SINGLE PAD SHALL HAVE A MINIMUM (1) REFUSE AND (1) RECYCLING ENCLOSURE. THE ENCLOSURES CAN BE SET UP AS DOUBLE OR SINGLE TO MAXIMIZE THE USE OF THE PROPERTY.

2. COMPACTORS CAN BE USED IN DEVELOPMENTS WHERE THE EMPLOYEES LOAD AND ACTIVATE THE COMPACTING EQUIPMENT. DEVELOPMENTS THAT ALLOW CUSTOMERS OR RESIDENTS ACCESS TO THE COMPACTING EQUIPMENT WILL NOT BE APPROVED.

3. SINGLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 12 FEET.

4. DOUBLE-WIDE BIN ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 24 FEET WITHOUT MIDWALLS. ALTHOUGH NOT PREFERRED, DOUBLE WIDE BIN ENCLOSURES CAN BE DESIGNED WITH MIDWALLS WITH A NET ENCLOSURE OPENING OF 12 FEET ON EACH SIDE OF MIDWALL.

5. GATES, HINGES, SAFETY POSTS, & MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MIN. 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.

6. DO NOT PLACE REFUSE ENCLOSURES AT THE END OF A DEAD END PARKING AISLE. LOCATE AND POSITION ENCLOSURES TO FACILITATE COLLECTION WITHOUT BACKTRACKING. LOCATE ENCLOSURES TO BE EASILY ACCESSIBLE FOR COLLECTION BY A SIMPLE ROUTE.

7. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING SO THERE IS A MINIMUM 12' WIDTH WITHIN EACH ENCLOSURE. DOUBLE ENCLOSURE GATES MUST BE ABLE TO OPEN SIMULTANEOUSLY.

8. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.

9. BINS THAT ARE VISIBLE FROM A PUBLIC ROADWAY SHALL HAVE ENCLOSURE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.

10. BIN ENCLOSURES TO BE A MINIMUM OF 3 FEET FROM ANY NON-COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT; 5 FEET FROM ANY COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT (PER 2015 IFC).

11. STANDARDS FOR SOLID WASTE VEHICLE ACCESS ARE ADDRESSED IN SRP-MIC DETAIL 4100-1 & 4100-2.

12. STANDARDS FOR TRIPLE WIDE ENCLOSURES ARE ADDRESSED IN SRP-MIC DETAIL 4102.

13. STANDARDS FOR BIN ENCLOSURE SCREEN WALLS, SAFETY POSTS, AND GATES ARE ADDRESSED IN SRP-MIC DETAIL 4103-1 & 4103-2.

14. RESTAURANTS MUST PROVIDE A SEPARATE ENCLOSED AREA TO ACCOMMODATE THEIR GREASE TRAP. THIS DESIGNATED AREA MUST NOT INTERFERE WITH THE TRASH/RECYCLING COLLECTION.

15. SOLID WASTE ENCLOSURES MAY INCLUDE WATER CONNECTIONS & DRAINS TO FACILITATE CLEANING OF DUMPSTERS. THESE SHOULD BE LOCATED TO NOT IMPEDE THE ENCLOSURE OPENING (AND GATING IF REQUIRED). ADDITIONAL ITEMS SUCH AS LANDSCAPING CONTROL BOXES AND LIGHTING MAY BE POSITIONED ON THE OUTSIDE OF THE ENCLOSURE WALLS.

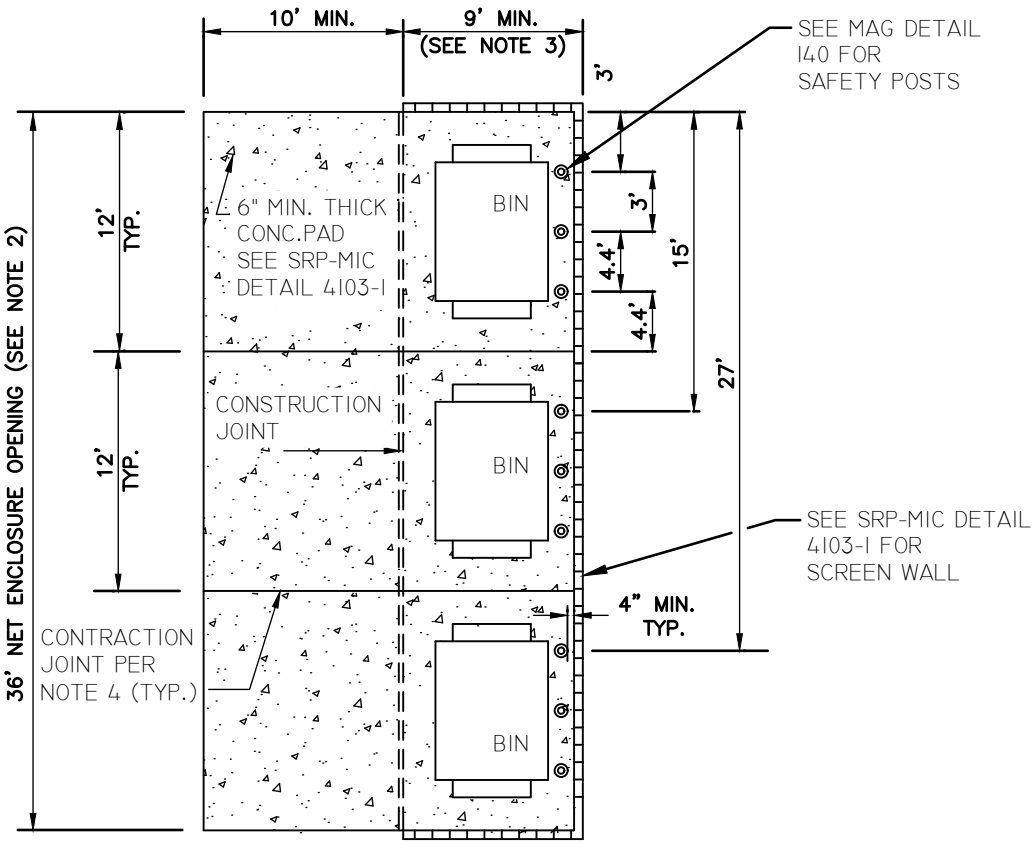
16. TREE PLANTING SHOULD NOT TAKE PLACE WITHIN TEN (10) FEET OF THE BIN ENCLOSURE AND SHOULD BE SPACED SO AS NOT TO CREATE AN AERIAL OBSTRUCTION FOR THE BIN DUMPING AT THE FINAL FULL GROWTH DIMENSIONS.

N.T.S.

SINGLE & DOUBLE-WIDE BIN ENCLOSURES - NOTES

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	DETAIL NO.
2018	CONSTRUCTION DETAIL	4101-2

TRIPLE-WIDE BIN ENCLOSURE



NOTES

1. MULTI-UNIT RESIDENTIAL DEVELOPMENTS MAY BE DESIGNED WITH A TRIPLE-WIDE ENCLOSURE TO ACCOMMODATE RECYCLING. ADDITIONAL ENCLOSURES MAY BE NECESSARY DEPENDING ON NUMBER OF UNITS.

2. TRIPLE-WIDE ENCLOSURES SHALL HAVE A NET ENCLOSURE OPENING OF 36 FEET AND SHALL BE DESIGNED WITHOUT MIDWALLS. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING. GATES MUST BE ABLE TO OPEN SIMULTANEOUSLY.

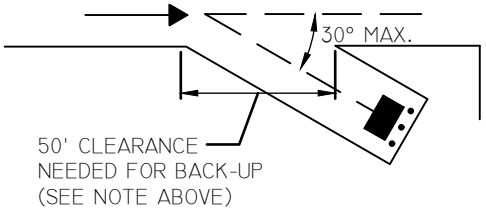
3. GATES, HINGES, SAFETY POSTS, AND MOUNTING HARDWARE SHALL BE INSTALLED SO THERE IS A MINIMUM 9 FOOT DEPTH CREATED WITHIN EACH ENCLOSURE.

4. BIN ENCLOSURES ARE TO BE ANGLED NO MORE THAN 30 DEGREES FROM THE CENTER LINE OF THE SOLID WASTE COLLECTION VEHICLE ROUTE.

5. CONTRACTION JOINTS MAY BE EITHER SCORED OR SAWCUT 1-INCH DEEP.

6. GATES, HINGES AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING SO THERE IS A MINIMUM 12' WIDTH CLEAR WITHIN EACH ENCLOSURE.

MAX. BIN DEVIATION

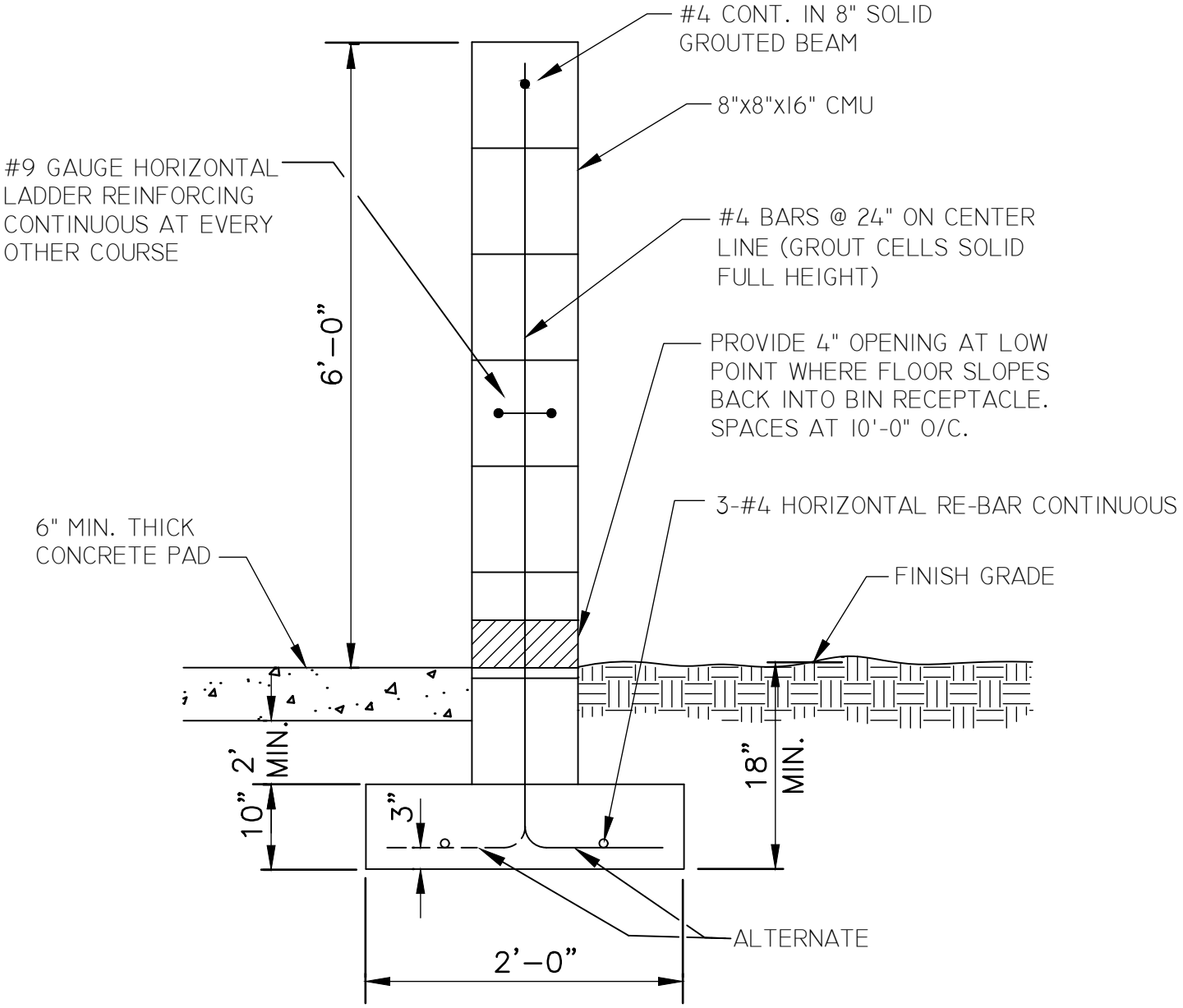


N.T.S.

STANDARDS FOR TRIPLE WIDE BIN ENCLOSURES

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2018	CONSTRUCTION DETAIL	4102

6-FOOT MASONRY SCREEN WALL



NOTE:

1. DESIGN SHOULD ENSURE STANDARD HAS AN APPLICABLE SOIL SITE CONDITION.

N.T.S.

STANDARDS FOR BIN ENCLOSURE WALL AND GATE		
REVISED 2018	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4103–1

NOTES

1. TRASH AND RECYCLING BIN AREA SHALL BE SCREENED WITH A SIX FOOT MIN. (6' MIN.) MASONRY WALL PER SRP-MIC DETAIL 4103-1.

2. EXTERIOR FINISH OF 6 FOOT MASONRY SCREEN WALLS SHALL BE COORDINATED ARCHITECTURALLY WITH PRIMARY BUILDING FINISHES.

3. BIN ENCLOSURE TO BE A MINIMUM OF 3 FEET FROM ANY NON-COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT, AND 5 FEET FROM ANY COMBUSTIBLE PLANNED OR EXISTING STRUCTURE AT ITS CLOSEST POINT (PER 2015 IFC).

4. BINS THAT ARE VISIBLE FROM A PUBLIC ROADWAY SHALL HAVE ENCLOSURE GATES THAT SCREEN THE BINS FROM PUBLIC VIEW.

5. EACH ENCLOSURE GATE SHALL HAVE DROP PINS INSTALLED AND HOLES DRILLED IN THE CONCRETE AT BOTH THE OPEN AND CLOSED POSITIONS TO PREVENT GATES FROM CLOSING INTO THE COLLECTION VEHICLE.

6. BIN ENCLOSURES SHALL HAVE (3) 6" DIAMETER STEEL SAFETY POSTS INSTALLED IN THE BACK OF THE ENCLOSURE ONLY PER MAG DETAIL 140.

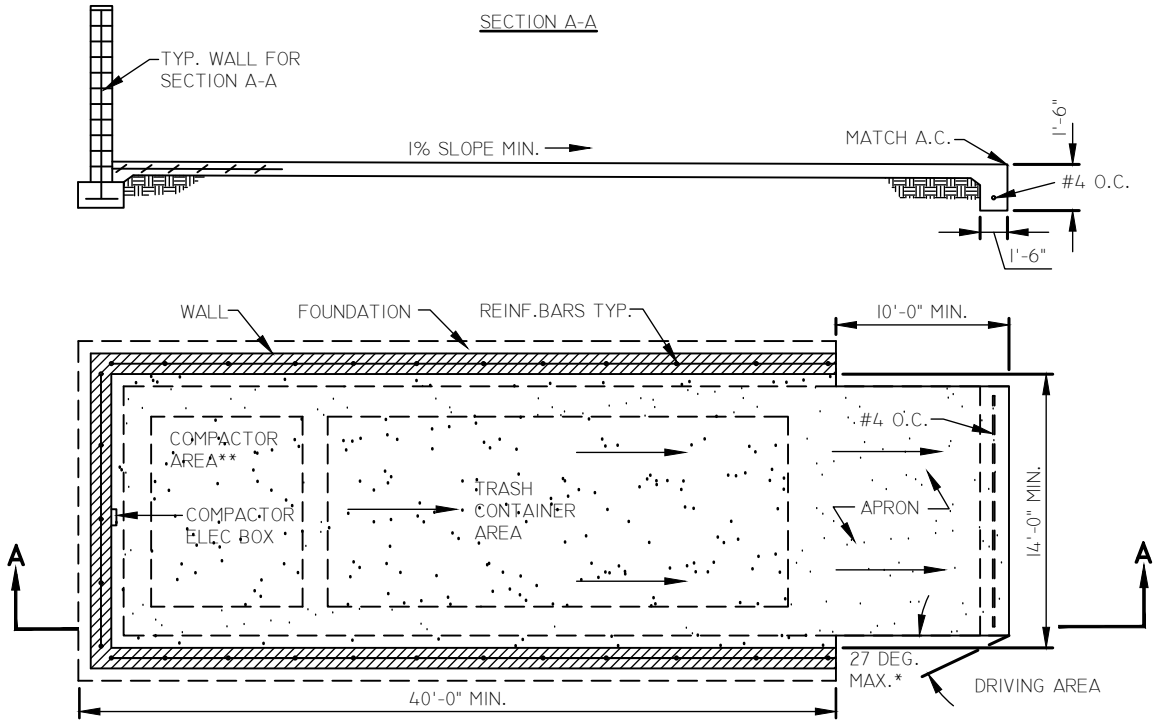
7. STANDARDS FOR SOLID WASTE VEHICLE ACCESS ARE ADDRESSED IN SRP-MIC DETAIL 4100-1 AND 4100-2.

8. STANDARDS FOR SINGLE, DOUBLE, AND TRIPLE-WIDE BIN ENCLOSURES ARE ADDRESSED IN SRP-MIC DETAILS 4101-1, 4101-2 AND 4102.

STANDARDS FOR BIN ENCLOSURE WALL AND GATE–NOTES

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2018	CONSTRUCTION DETAIL	4103–2

LARGE COMPACTOR REFUSE AREA

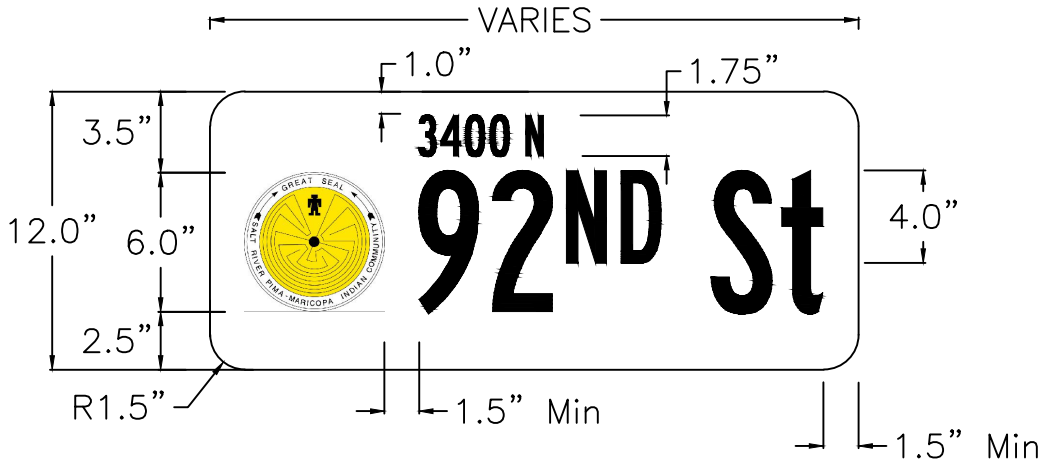


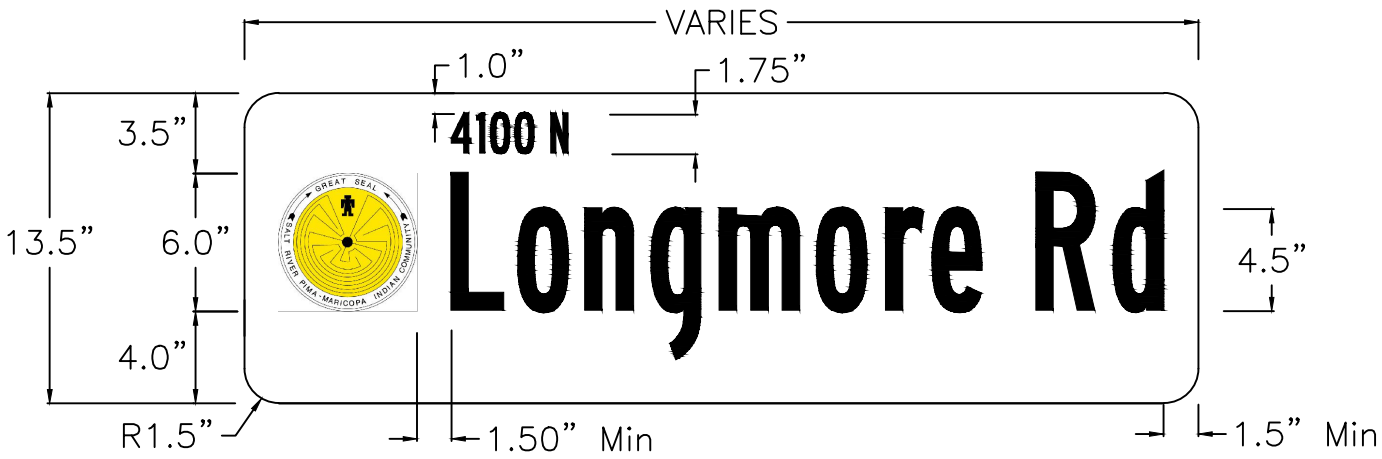
NOTES:

1. ALL INTERIOR PAD DIMENSIONS ARE MINIMUMS.
2. WALL HEIGHT DETERMINED BY COMPACTOR HEIGHT (6'-0" MIN.).
3. FINAL LOCATION AND ORIENTATION TO BE DETERMINED BY THE SRP-MIC PUBLIC WORKS DEPARTMENT.
4. PROVIDE PEDESTRIAN ACCESS TO THIS AREA (THRU WALL).
5. SAFETY POSTS, WHEEL STOPS, & GUIDE RAILS SECURED TO CONCRETE SLAB, ARE REQUIRED FOR ALL ENCLOSURES. SAFETY POSTS ARE ADDRESSED IN MAG DETAIL 140.
6. RINSE AND WASH WATER FROM CLEANING WASTE CONTAINERS INTO A SANITARY SEWER. DO NOT DISCHARGE WASH WATER TO THE STREET OR STORM DRAIN. CLEAN IN DESIGNATED WASH AREA THAT DRAINS TO A CLARIFIER.
7. ANY DOORS PROVIDED (NOT SHOWN ON THIS DETAIL) SHALL BE SELF-CLOSING AND SELF-LATCHING.
8. GATES (NOT SHOWN ON THIS DETAIL) SHALL BE PROVIDED FOR SCREENING PURPOSES ACROSS THE FRONT OF THE ENCLOSURE. STANDARDS FOR GATES ARE ADDRESSED IN SRP-MIC DETAILS 4103-1 AND 4103-2.
9. GATES, HINGES, AND MOUNTING HARDWARE SHALL NOT INTRUDE UPON MINIMUM NET ENCLOSURE OPENING.
10. ENCLOSURES SHALL HAVE A MINIMUM OPENING OF 14'.
11. SOME COMPACTORS MAY HAVE COMPACTOR AREA IN FRONT (PREFERRED METHOD). SELF LOADING FRONT LOAD COMPACTOR PREFERRED.

STANDARDS FOR LARGE COMPACTOR REFUSE AREA

REVISED 2018	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4104





1. SIGN SHALL BE .125" FLAT SHEET ALUMINUM.
2. SIGN SHALL MEASURE 12" HEIGHT OR 13.5" HEIGHT FOR TEXT CONTAINING DESCENDING CHARACTERS.
3. ALL LEGEND FONT SHALL BE BLACK HIGHWAY GOTHIC FHWA SERIES "B"
4. SHEETING SHALL BE ASTM D-4956-19 TYPE XI SHEETING (3M DG3 4090 SERIES OR EQUIVALENT)
5. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED WITH INK.
6. LOGO SHALL BE COLOR AND SCREEN PRINTED
7. ALL SIGNS SHALL HAVE A 3M 1160 OR EQUIVALENT ANTI-GRAFFITI OVERLAY FILM
8. NEGATIVE KERNING MAY BE USED IN SPECIAL CIRCUMSTANCES TO REDUCE SIGN WIDTH, BUT SHALL NOT EXCEED 25%.
9. SIGN POST FABRICATION SHALL FOLLOW SRPMIC SUPP. DETAIL 4107.
10. BLOCK NUMBERING SHALL DESIGNATE THE ADDRESS ALONG THE NAMED ROADWAY.

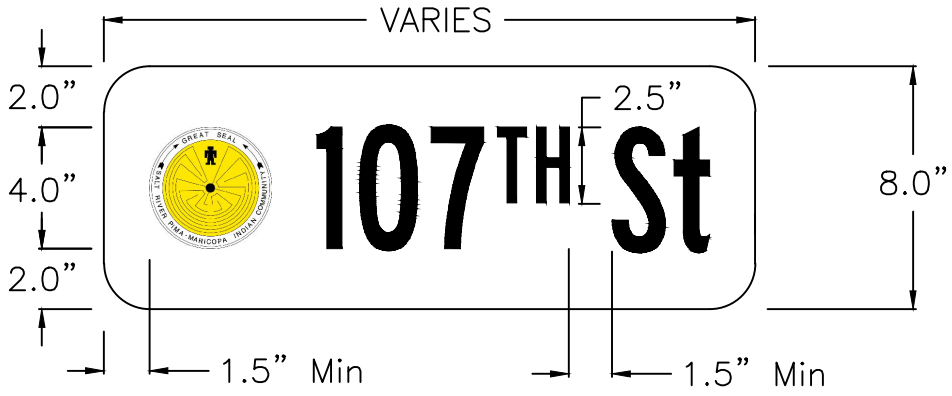
INTENDED USAGE:

TYPE "A" STREET NAME SIGNS SHALL BE USED ON ALL COLLECTOR OR ARTERIAL STREET DESIGNATIONS WHICH ARE GENERALLY LOCATED ON THE MID-SECTION AND SECTION LINES.

N.T.S.

STREET NAME SIGNS – TYPE A

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4105



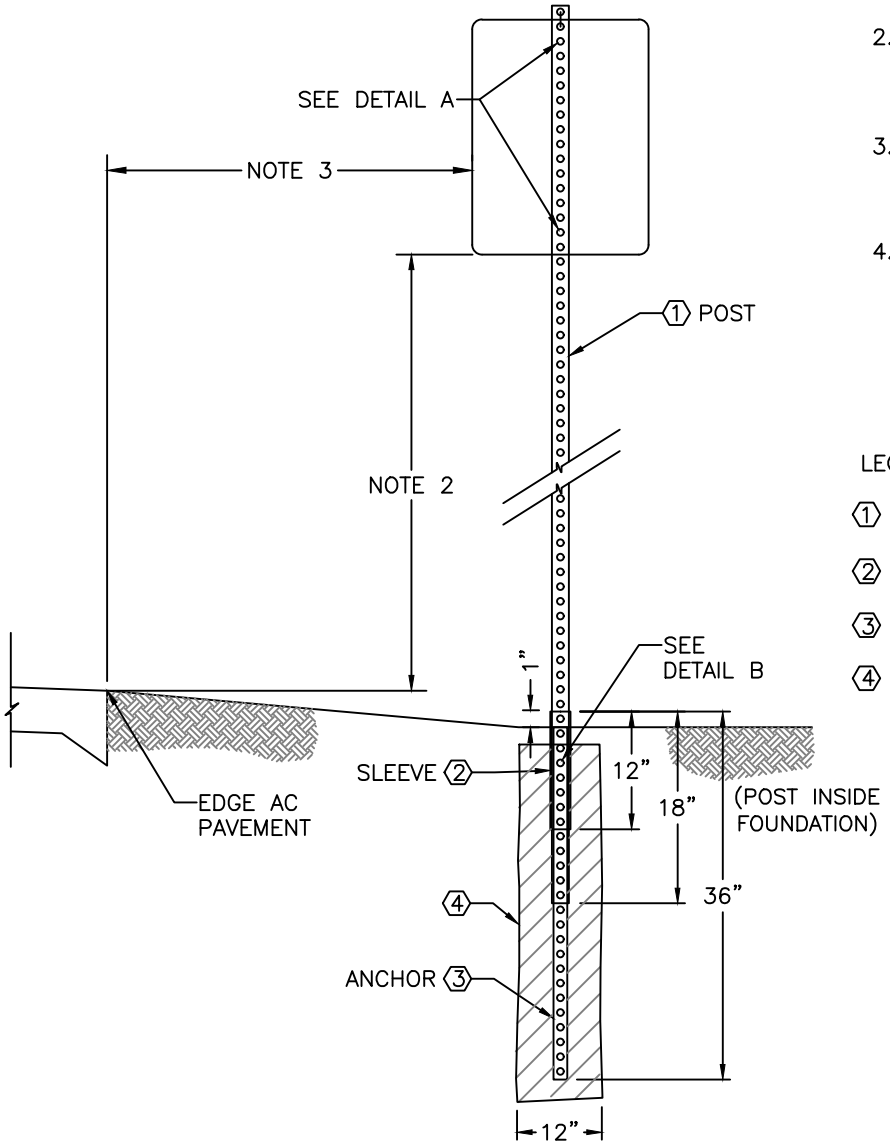
1. SIGN SHALL BE .125" FLAT SHEET ALUMINUM.
2. SIGN SHALL MEASURE 8" HEIGHT OR 9" HEIGHT FOR TEXT CONTAINING DESCENDING CHARACTERS.
3. ALL LEGEND FONT SHALL BE BLACK HIGHWAY GOTHIC FHWA SERIES "B"
4. SHEETING SHALL BE ASTM D–4956–19 TYPE XI SHEETING (3M DG3 4090 SERIES OR EQUIVALENT)
5. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED WITH INK.
6. LOGO SHALL BE COLOR AND SCREEN PRINTED
7. ALL SIGNS SHALL HAVE A 3M 1160 OR EQUIVALENT ANTI–GRAFFITI OVERLAY FILM
8. NEGATIVE KERNING MAY BE USED IN SPECIAL CIRCUMSTANCES TO REDUCE SIGN WIDTH, BUT SHALL NOT EXCEED 25%.
9. SIGN POST FABRICATION SHALL FOLLOW SRPMIC SUPP. DETAIL 4107.
10. TYPE B STREET NAME SIGNS DO NOT CONTAIN BLOCK NUMBERING.

INTENDED USAGE:
TYPE "B" STREET NAME SIGNS SHALL BE USED ON ALL LOCAL STREET DESIGNATIONS WHICH ARE GENERALLY LOCATED ON THE QUARTER–SECTION LINE OR LESS.

N.T.S.

STREET NAME SIGNS – TYPE B

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4106



N.T.S.

NOTES:

1. TWO POSTS ARE REQUIRED FOR SIGNS THAT ARE 48" OR WIDER.
2. WHEN APPROPRIATE, SIGN MOUNTING HEIGHT SHALL BE 7'–0" MIN. (TOP OF PAVEMENT TO BOTTOM OF SIGN). WHEN NO STOP SIGN IS REQUIRED, THE STREET NAME IS MOUNTED AT 9'–6".
3. SIGN FACE SHOULD BE 12'–0" MIN. FROM EDGE OF PAVEMENT ON RURAL ROADS WITHOUT CURBS. FOR ROADS WITH CURBS LOCATE FACE OF SIGN 2'–0" MIN. BEHIND BACK OF CURB OR SIDEWALK.
4. STREET NAME SIGNS SHALL USE THE FOLLOWING:

SIGN LENGTH	BRACKET SIZE
6" ≤ L ≤ 18"	6"
18" < L ≤ 36"	12"
36" < L ≤ 48"	18"
L > 48"	24"

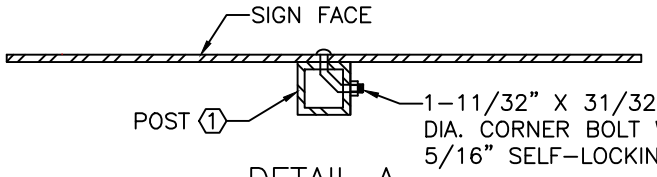
LEGEND:

1 POST: 2"x2"x12' SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING.

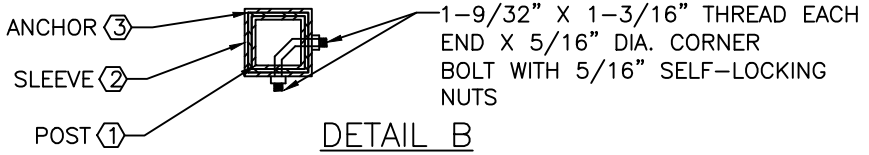
2 SLEEVE: 2½"x2½"x18" SQUARE PERFORATED GALVANIZED STEEL TUBING.

3 ANCHOR: 2¼"x2¼"x36" SQUARE PERFORATED 0.105" GALVANIZED STEEL TUBING

4 ANCHOR ASSEMBLY ENCASED WITH CLASS B CONCRETE, MINIMUM 12" DIAMETER, 2" BELOW FINAL GRADE.



DETAIL A
SIGN MOUNTING



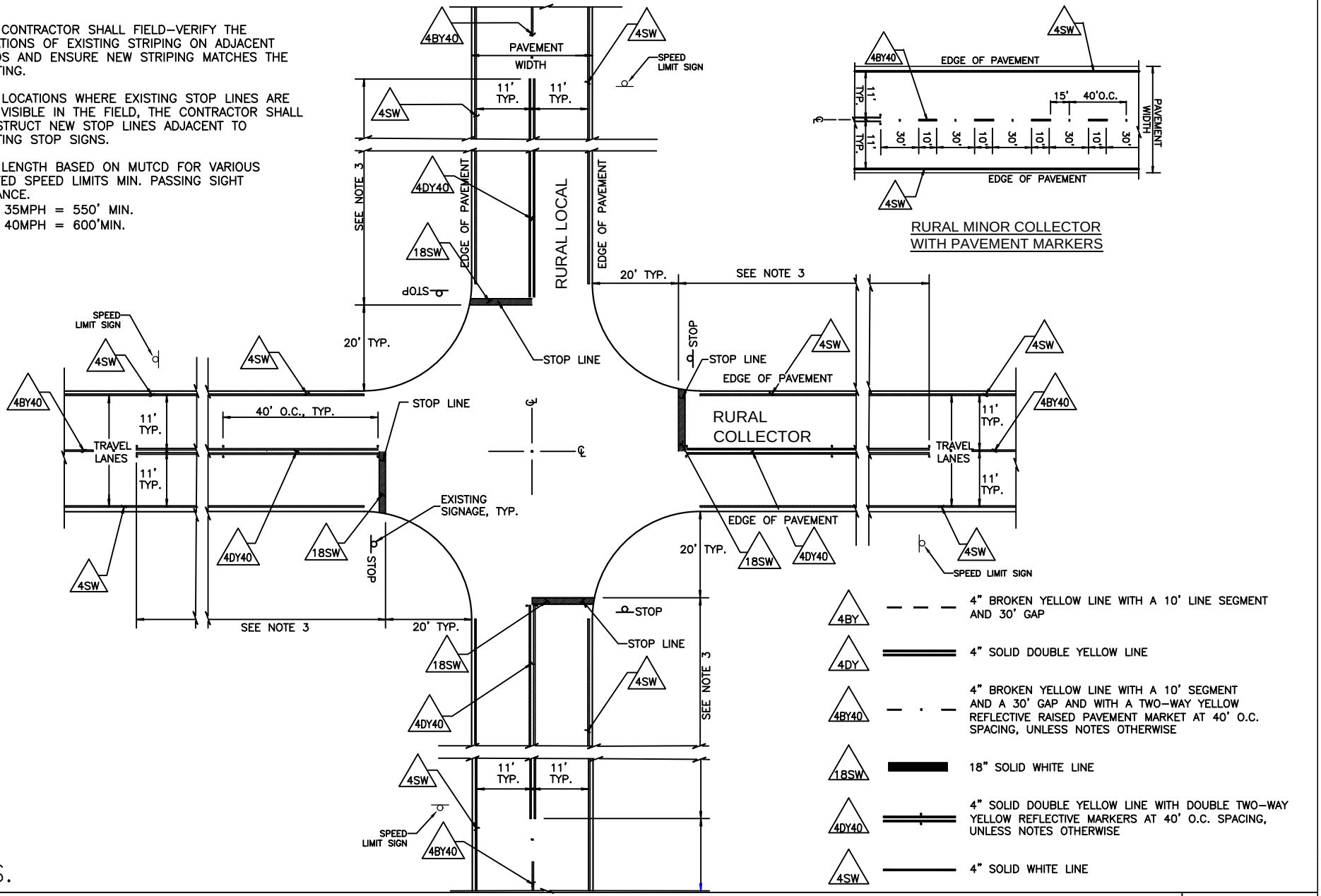
DETAIL B
ANCHOR ASSEMBLY

SIGN POST INSTALLATION

REVISED	STANDARD DETAIL	DETAIL NO.
2024	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	4107

NOTES:

1. THE CONTRACTOR SHALL FIELD–VERIFY THE LOCATIONS OF EXISTING STRIPING ON ADJACENT ROADS AND ENSURE NEW STRIPING MATCHES THE EXISTING.
2. FOR LOCATIONS WHERE EXISTING STOP LINES ARE NOT VISIBLE IN THE FIELD, THE CONTRACTOR SHALL CONSTRUCT NEW STOP LINES ADJACENT TO EXISTING STOP SIGNS.
3. 4DY LENGTH BASED ON MUTCD FOR VARIOUS POSTED SPEED LIMITS MIN. PASSING SIGHT DISTANCE.
   35MPH = 550' MIN.
   40MPH = 600'MIN.



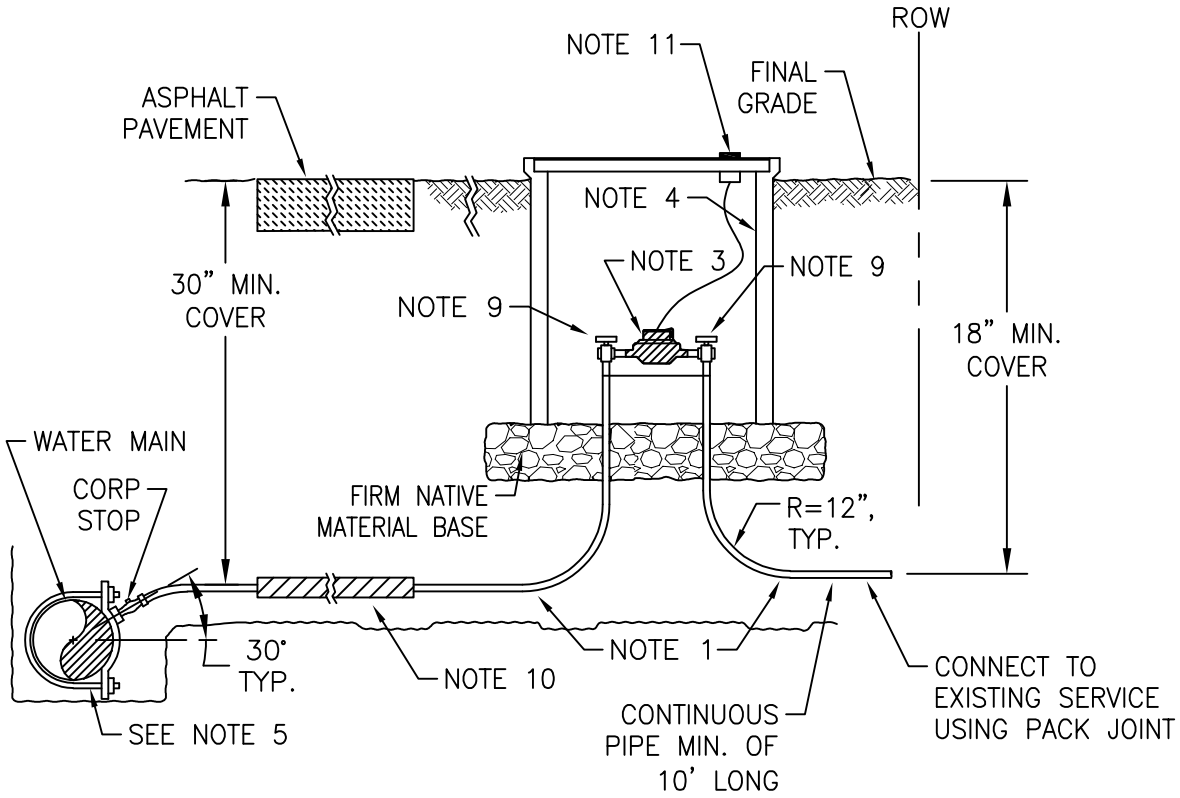
RURAL MINOR COLLECTOR WITH PAVEMENT MARKERS

4BY	4" BROKEN YELLOW LINE WITH A 10' LINE SEGMENT AND 30' GAP
4DY	4" SOLID DOUBLE YELLOW LINE
4BY40	4" BROKEN YELLOW LINE WITH A 10' SEGMENT AND A 30' GAP AND WITH A TWO–WAY YELLOW REFLECTIVE RAISED PAVEMENT MARKET AT 40' O.C. SPACING, UNLESS NOTES OTHERWISE
18SW	18" SOLID WHITE LINE
4DY40	4" SOLID DOUBLE YELLOW LINE WITH DOUBLE TWO–WAY YELLOW REFLECTIVE MARKERS AT 40' O.C. SPACING, UNLESS NOTES OTHERWISE
4SW	4" SOLID WHITE LINE

N.T.S.

STRIPING PLAN
TYP. 4-WAY INTERSECTION & PAVED ROAD (RURAL)

REVISED	STANDARD DETAIL	DETAIL NO.
2024	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	4108



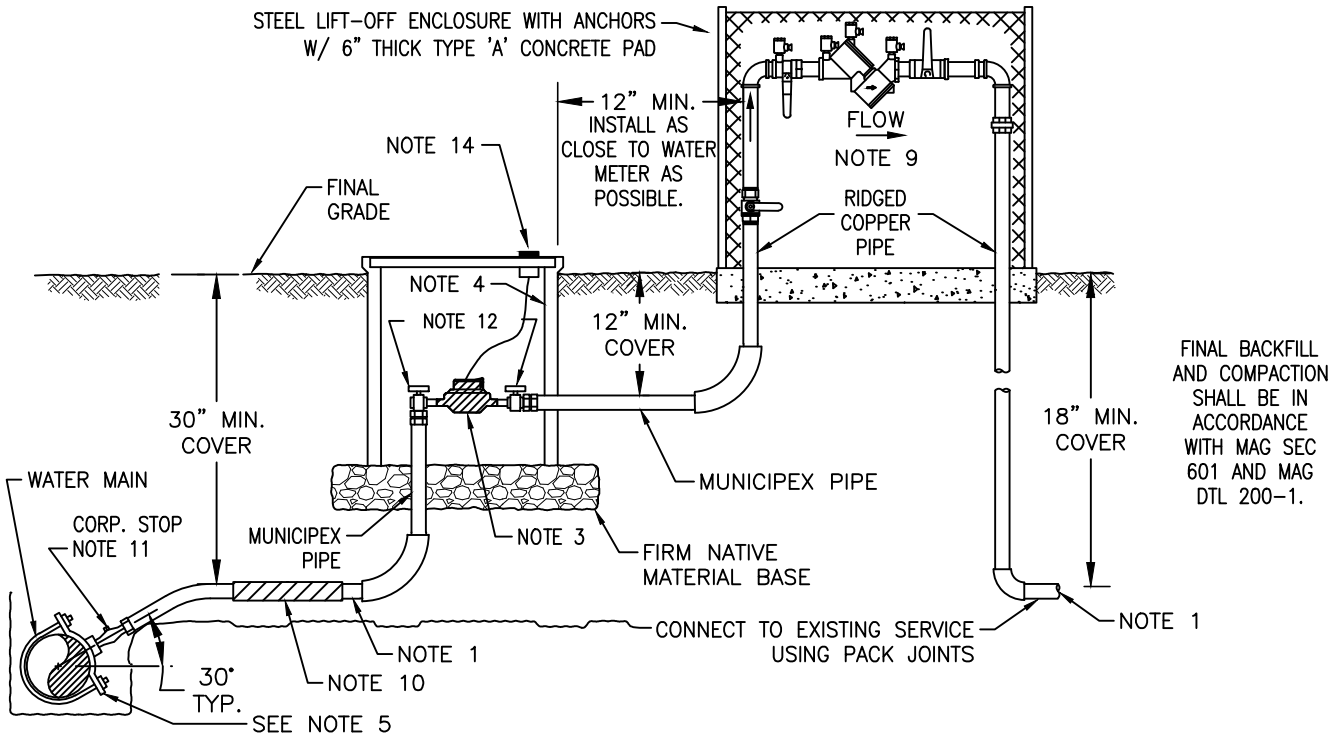
NOTES:

1. WATER SERVICE SHALL BE INSTALLED WITH BLUE MUNICIPEX PIPE, 1" DIA. (EXCEPT AS NOTED). 1" DIA PIPE FOR SERVICE RUNS OF 100' OR LESS, 2" DIA PIPE FOR SERVICE RUNS OF 100' OR MORE. BEDDING, HAUNCHING, AND INITIAL BACKFILL MATERIAL SHALL BE ABC, COMPACTED MIN 95% DENSITY PER MAG DTL 200–3. 3/4" MINUS NATIVE MATERIAL SHALL ONLY BE USED WITH COMMUNITY APPROVAL. FINAL BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH MAG SECTION 601, AND MAG DTL 200–1.
2. MUNICIPEX SERVICE LINES THAT CROSS STREETS SHALL BE ONE CONTINUOUS PIECE. ANY JOINTS SHALL BE APPROVED BY SRP–MIC.
3. 3/4" WATER METER (SENSUS iPERL), FURNISHED BY SRP–MIC PUBLIC WORKS DEPARTMENT AFTER PAYMENT OF FEES.
4. WATER METER BOX AND LID SHALL BE DFW PLASTICS INC., DFW A2C–12–1 (22"X14"X12").
5. FOR DIP, PVC, AND ACP PIPE INSTALLATION USE DOUBLE–STRAP BRONZE SERVICE SADDLE WITH BRONZE FULL CIRCLE CLAMP. WRAP SADDLE AND CORP STOP WITH 6–MIL POLYWRAP. FOR PVC PIPE INSTALLATION USE FOUR BOLT SADDLE WITH WIDE STAINLESS STEEL STRAP.
6. SERVICE TAPS SHALL BE MADE PRIOR TO ANY TESTING.
7. CONTRACTORS SHALL COORDINATE SHUTDOWN OF EXISTING LINES WITH SRP–MIC PUBLIC WORKS, MINIMUM THREE (3) WORKING DAYS NOTICE 480–362–5600 OR E–MAIL TO (PWCUSTOMERSERVICE@SRPMIC–NSN.GOV).
8. METER SHALL BE LOCATED WITHIN THE ROAD ROW. IF NOT POSSIBLE THEN METER SHALL BE LOCATED NO FURTHER THAN 2' OUTSIDE ROW.
9. FORD BRASS ANGLE KEY METER VALVE KV43–342–W–G OR APPROVED EQUAL.
10. CASING FOR WATER SERVICE THAT CROSS EXISTING ASPHALT PAVEMENT. CASING WILL BE PVC SCH–40 PIPE, 2X THE WATER SERVICE PIPE DIAMETER AND EXTEND 5' MIN. BEYOND ROADWAY EDGE. SEAL ENDS OF CASING WITH FOAM.
11. DRILL ONE 2" DIA. HOLE IN METER LID FOR MXU AND WIRING. LOCATION OF HOLE TO BE ON OPPOSITE SIDE OF PICK HOLE AND IN THE CORNER OF THE LID, COORDINATE WITH WATER RESOURCES. MXU AND WIRING TYPICALLY SUPPLIED AND INSTALLED BY SRP–MIC PUBLIC WORKS.

N.T.S.

WATER SERVICE CONNECTION
RESIDENTIAL WATER ASSEMBLY

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4300



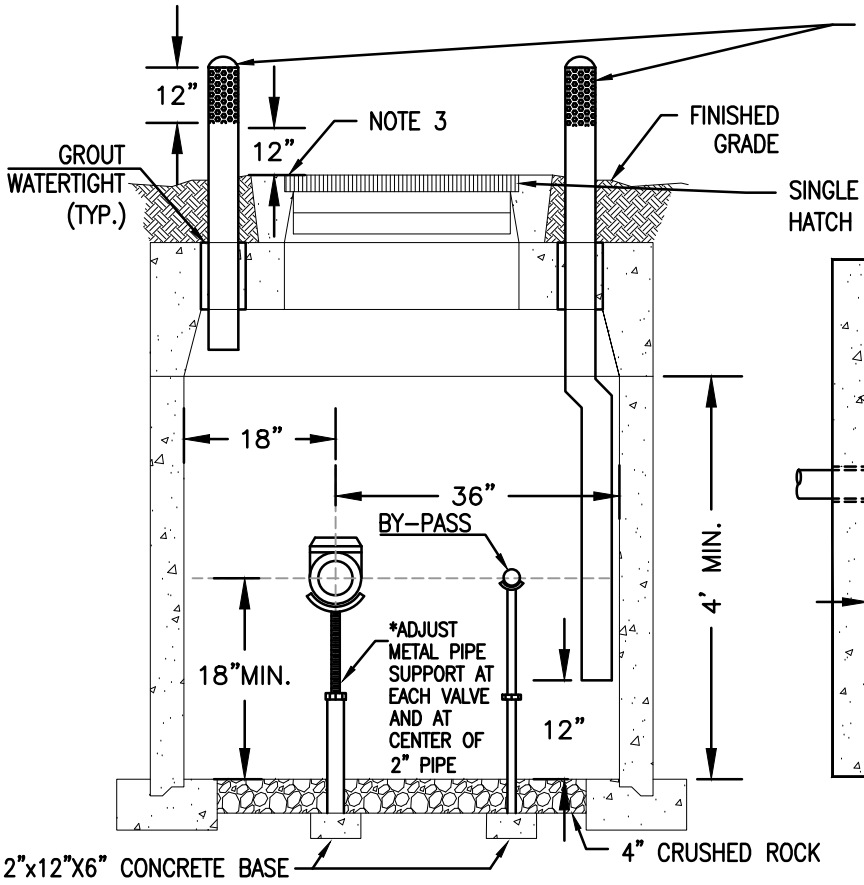
NOTES:

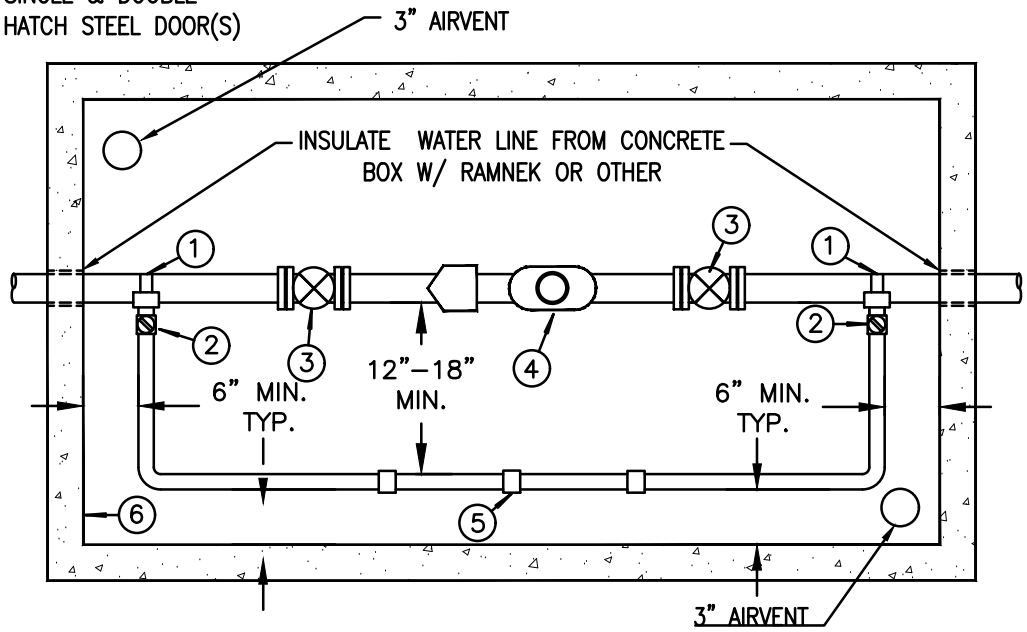
1. WATER SERVICE, 1" AND 2" DIA. (EXCEPT AS NOTED) INSTALL WITH MUNICIPEX PIPE. BEDDING, HAUNCHING, AND INITIAL BACKFILL MATERIAL SHALL BE ABC COMPACTED TO MIN 95% DENSITY PER MAG DTL 200-3. 3/4" MINUS NATIVE MATERIAL SHALL ONLY BE USED WITH COMMUNITY APPROVAL.
2. MUNICIPEX SERVICE LINES THAT CROSS STREETS SHALL BE ONE CONTINUOUS PIECE. ANY JOINTS SHALL BE APPROVED BY SRP-MIC PUBLIC WORKS DEPARTMENT.
3. 1" SENSUS IPERL OR 1" OR 2" SENSUS OMNI T2 WATER METER FURNISHED BY SRP-MIC PUBLIC WORKS DEPARTMENT AFTER PAYMENT OF FEES.
4. WATER METER BOX AND LID SHALL BE DFW PLASTICS INC., DFW 1730C-18-1 (17"X30"X18").
5. FOR 1" SERVICE ON DIP AND ACP PIPE INSTALLATION, INSTALL DOUBLE-STRAP BRONZE SERVICE SADDLE WITH BRONZE FULL CIRCLE CLAMP. WRAP SADDLE AND CORP STOP WITH 6-MIL POLYWRAP. FOR PVC PIPE INSTALLATION INSTALL FOUR BOLT SADDLE WITH WIDE STAINLESS STEEL STRAP. FOR 2" SERVICES, REFER TO DTL 4310 FOR CONNECTION TO MAIN.
6. SERVICE TAPS SHALL BE MADE PRIOR TO ANY TESTING.
7. CONTRACTORS SHALL COORDINATE SHUTDOWN OF EXISTING LINES WITH SRP-MIC PUBLIC WORKS, THREE (3) WORKING DAYS NOTICE 480-362-5600 OR E-MAIL TO (PWCUSTOMERSERVICE@SRPMIC-NSN.GOV).
8. METER SHALL BE LOCATED WITHIN THE ROAD ROW. IF NOT POSSIBLE THEN METER SHALL BE LOCATED NO FURTHER THAN 2' OUTSIDE ROW.
9. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, PER SRP-MIC DETAIL 4304.
10. CASING FOR WATER SERVICE THAT CROSS EXISTING ASPHALT PAVEMENT. CASING WILL BE PVC SCH-40 PIPE, 2X THE WATER SERVICE PIPE DIAMETER AND EXTEND 5' MIN. BEYOND ROADWAY EDGE. SEAL ENDS OF CASING WITH FOAM.
11. FORD CORP STOP FB1100 OR APPROVED EQUAL. FOR 2" GATE VALVE REFER TO DTL 4310.
12. FORD ANGLE KEY METER VALVE KV43 FOR 1" METER AND FORD ANGLE KEY FLANGE METER VALVE FV43 FOR 2" METER OR APPROVED EQUAL.
13. FORD ANGLE METER COUPLING L34 FOR 1" METER AND FLANGE METER ELBOW LF34 FOR 2" METER OR APPROVED EQUAL.
14. DRILL ONE 2" DIA. HOLE IN METER LID FOR MXU AND WIRING. LOCATION OF HOLE TO BE ON OPPOSITE SIDE OF PICK HOLE AND IN THE CORNER OF THE LID, COORDINATE WITH PW WATER RESOURCES. MXU AND WIRING TYPICALLY SUPPLIED AND INSTALLED BY SRP-MIC PUBLIC WORKS.

N.T.S.

NONRESIDENTIAL WATER SERVICE CONNECTION
1" AND 2" WATER METER ASSEMBLY

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4301





NOTE:

1. METER SHALL BE CENTERED LONGITUDINALLY UNDER VAULT ACCESS.
2. THE PIPE SLOT AT BOTH ENDS OF THE VAULT SHALL BE SEALED, BLOCKING THE SLOT W/ SUITABLE MATERIAL AND THEN WRAPPING THE PIPE W/ 10 MIL POLYWRAP/TAPE AND FINISHING W/ NON-SHRINK MORTAR PRIOR TO BACKFILLING AND COMPACTING.
3. DRILL ONE 2" HOLE IN METER LID FOR SENSUS 520R METER TRANSMITTER (TRANSMITTER TO BE INSTALLED BY SRP-MIC PUBLIC WORKS).

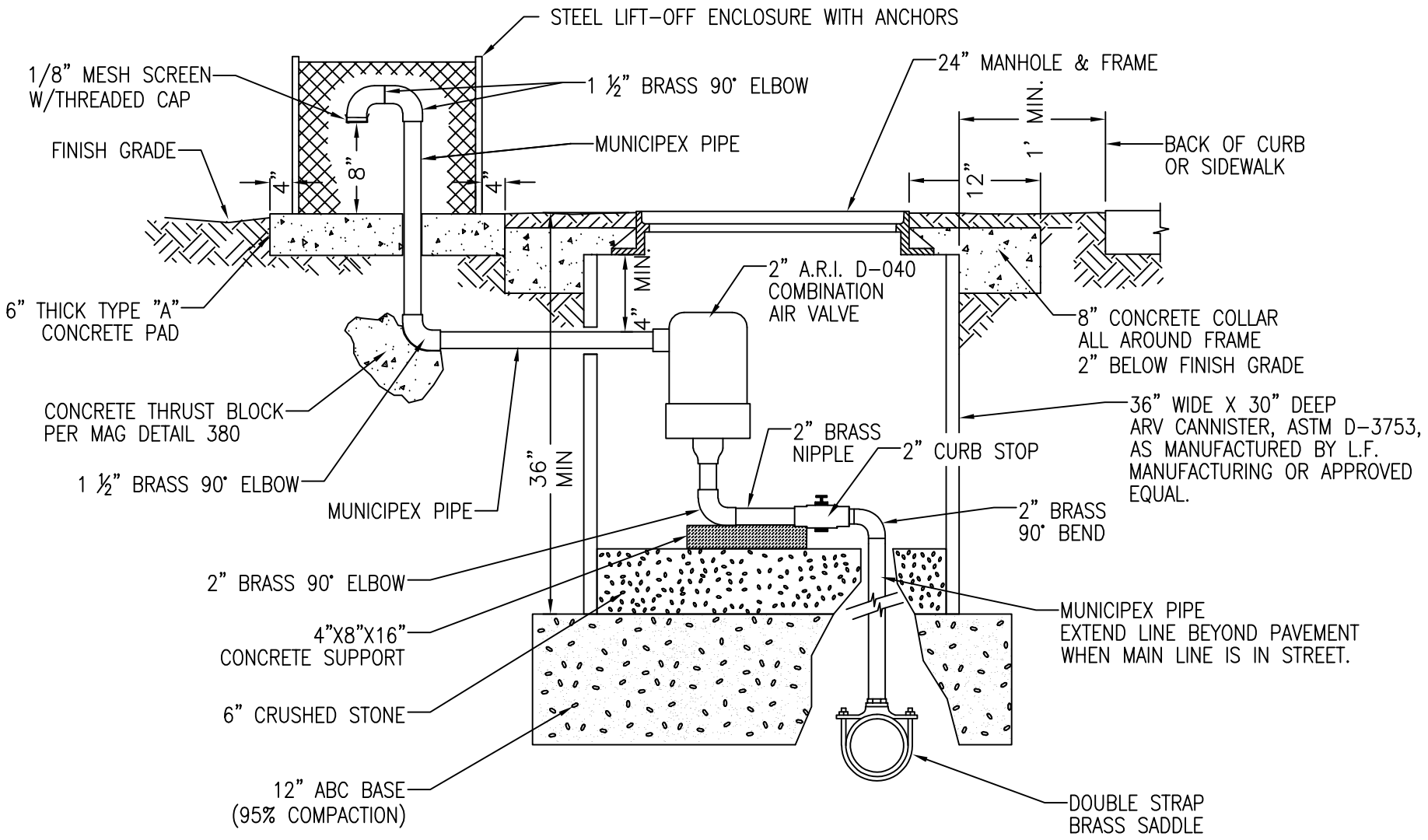
N.T.S.

LEGEND

① DOUBLE STRAP ALL BRONZE SERVICE SADDLE
② CORP STOP, 2" (BALL TYPE)
③ GATE VALVE, FLANGED WITH HAND WHEEL, OPEN LEFT.
④ SENSUS OMNI T2 METER W/ STRAINER OR SENSUS CORDONEL.
⑤ PIPE SUPPORT AT CENTER OF PIPE.
⑥ METER VAULT PER MAG STANDARD DTL 345-1. VAULT CONSTRUCTION SHALL BE PER MAG 321.

3", 4", AND 6" WATER METER

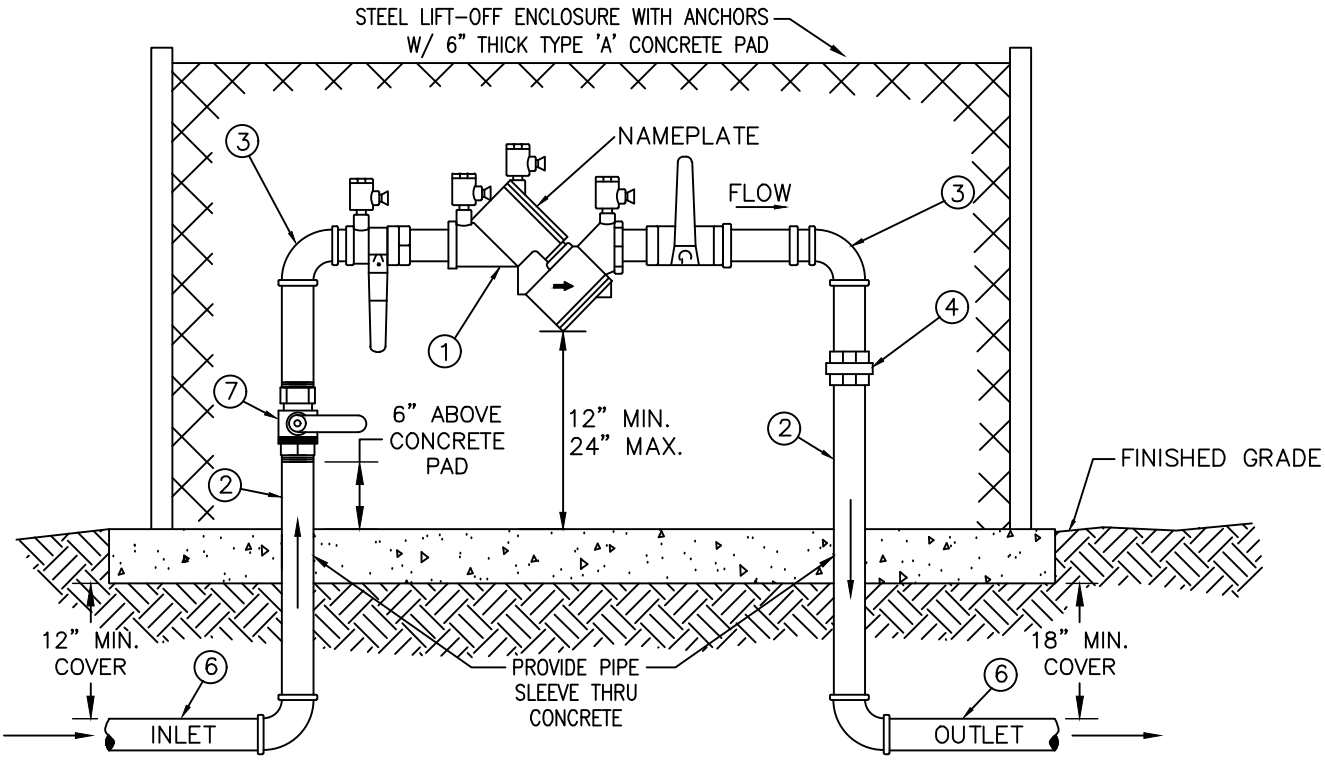
REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4302



N.T.S.

2" AIR/VACUUM RELEASE VALVE

REVISED 2024	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4303



INLET AS CLOSE TO SERVICE CONNECTION AS POSSIBLE (IMMEDIATELY AFTER WATER METER). HARD COPPER ON INLET SIDE.

LIST OF MATERIALS

① WATTS, WILKINS OR SRPMIC APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY, BALL VALVES INCLUDED.
② TYPE "K" HARD COPPER, ¾" THRU 2-½". THREADED X PACK JOINT FITTING.
③ 90° EL, COPPER ¾" THRU 2-½".
④ PIPE UNION, BRASS OR COPPER.
⑤ TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH CAPS INSTALL. (4 REQUIRED).
⑥ MUNICIPEX PIPE
⑦ STAINLESS STEEL BALL VALVE, AND ROTATE HANDLE TO THE SIDE OF HOUSING WALL. PJCTS ADAPTOR FORD 94-13 OR APPROVED EQUAL. SIZE ACCORDING TO PIPING.

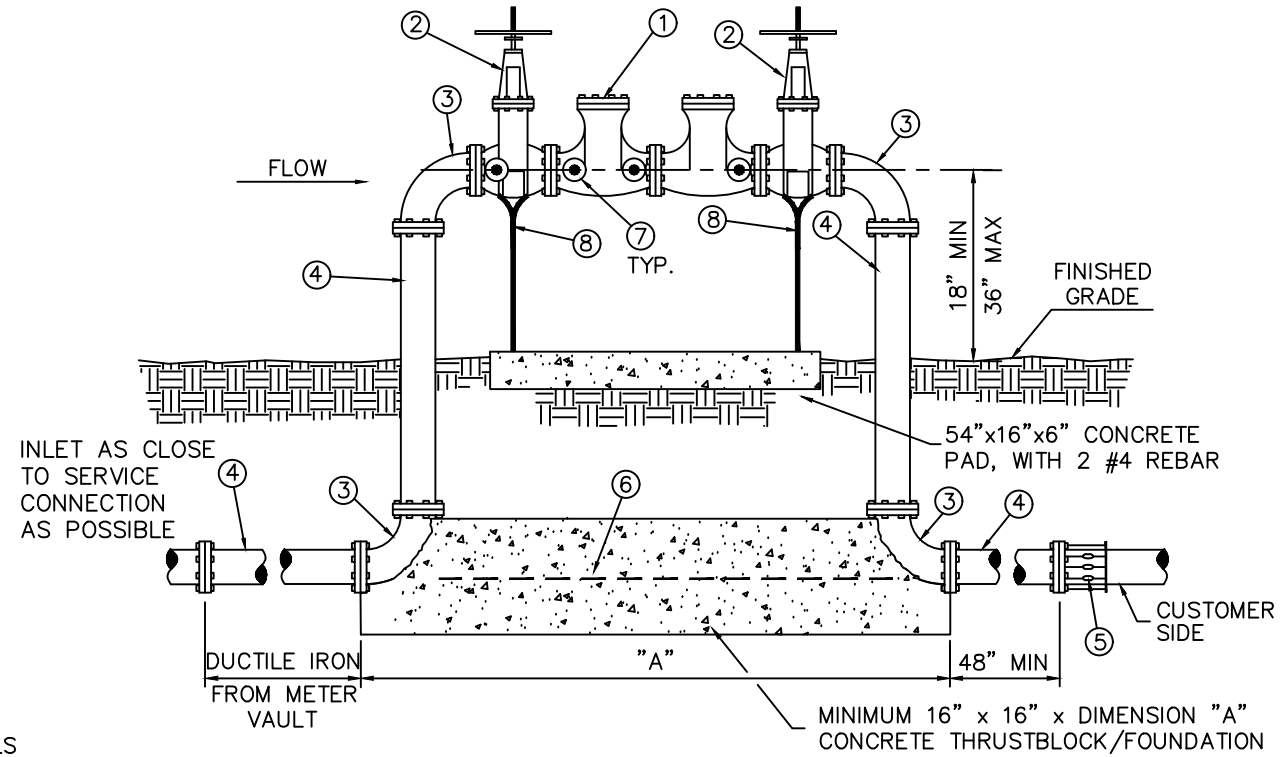
GENERAL NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE SALT RIVER PIMA MARICOPA INDIAN COMMUNITY.
2. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
3. ALL NIPPLES TO BE COPPER OR BRASS.
4. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
5. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.
6. BACKFLOW SHALL BE INSTALLED WITH CONCRETE EQUIPMENT PAD AND LIFT OFF ENCLOSURE. ENCLOSURE SHALL BE PAINTED TAN.
7. COPPER PIPE SHALL BE SLEEVED WHERE IT PENETRATES THE CONCRETE.
8. PROVIDE 12" MINIMUM CLEARANCE BETWEEN BACKFLOW PREVENTION ASSEMBLY AND PERMANENT STRUCTURES OR LANDSCAPE VEGETATION.
9. BACKFLOW PREVENTER COPPER PIPE AND ENCLOSURE SHALL BE PAINTED TO MATCH THE COLOR OF THE CLOSEST BLOCK WALL OR BUILDING.

N.T.S.

BACKFLOW PREVENTION ASSEMBLY FOR 3/4" AND 2-1/2" ASSEMBLIES

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4304



LIST OF MATERIALS

1. WATTS OR APPROVED EQUAL DOUBLE CHECKED VALVE BACKFLOW PREVENTION ASSEMBLY.
2. RESILIENT SEATED GATE VALVE. O.S. & Y (FIRE LINE CONNECTION) N.R.S. (NON FIRE LINE).
3. 90° ELBOW, FLANGED D.I.P. 3" THRU 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
4. PIPE SPOOL, FLANGED D.I.P., MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
5. FLANGED ADAPTOR (WHEN REQUIRED).
6. 2–#4 REBAR (CONT.)
7. TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH CAPS INSTALLED. (4 REQUIRED).
8. ADJUSTABLE METAL PIPE SUPPORTS AND CONCRETE BLOCK SUPPORTS WITH 1" ADJUSTING ROD AND NUT ON ASSEMBLIES 4" AND LARGER. INSTALLED ABOVE GRADE.

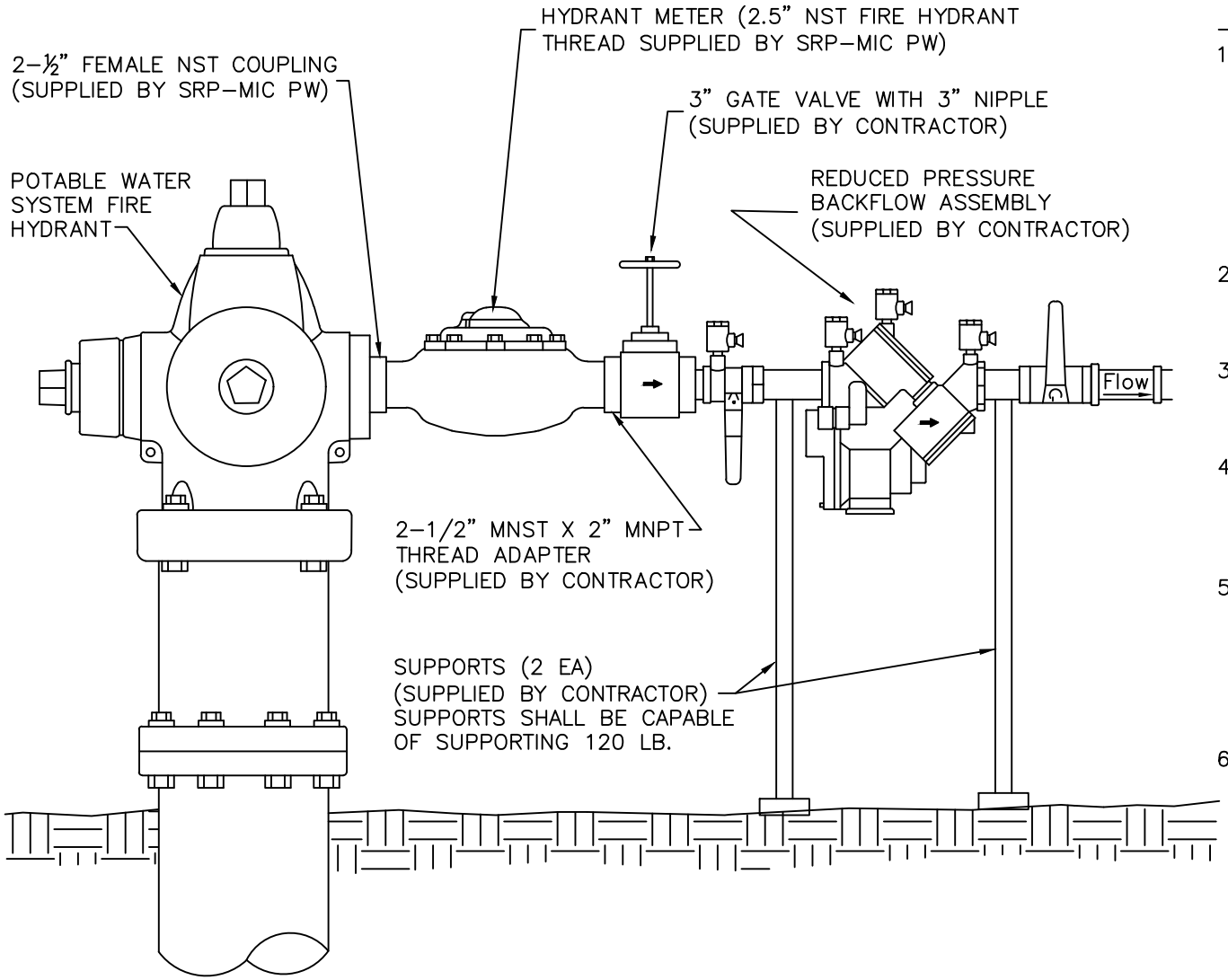
N.T.S.

GENERAL NOTES

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY.
2. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
3. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILL TRENCH.
4. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL OF APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3" TO 10"

REVISED 2018	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4305



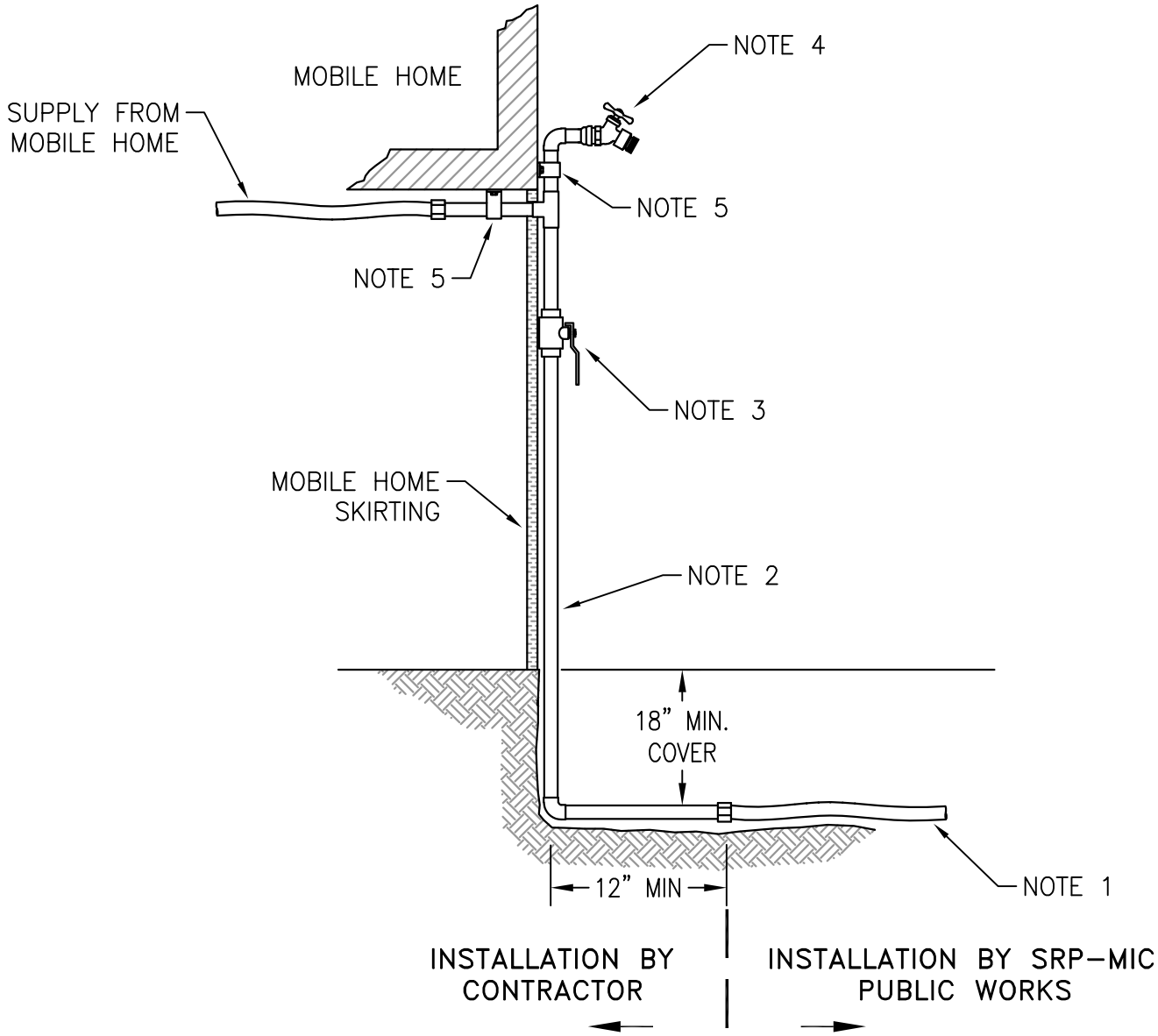
N.T.S.

GENERAL NOTES

1. GATE VALVE, BACKFLOW ASSEMBLY, AND CERTIFICATION SHALL BE INSTALLED/PROVIDED WITHIN 24 HOURS AFTER HYDRANT METER IS INSTALLED. BACKFLOW ASSEMBLY SHALL BE TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER BEFORE USING AND ALSO EACH TIME THE METER IS MOVED.
2. USER MUST REMOVE GATE VALVE AND BACKFLOW ASSEMBLY WHEN HYDRANT METER IS REMOVED OR RELOCATED.
3. USER IS LIABLE FOR ANY DAMAGE TO THE HYDRANT AND ALL ATTACHMENTS TO THE HYDRANT.
4. USER MUST USE GATE VALVE TO CONTROL FLOW OF WATER, NOT THE HYDRANT VALVE ASSEMBLY.
5. HYDRANT METER REQUEST AND APPLICABLE FEES SHALL BE MADE IN PERSON AT FINANCE DEPT. CASHIERS WINDOW, 1ST FLOOR, TWO WATERS COMPLEX, BLDG A, 10005 E. OSBORN RD. SCOTTSDALE, AZ 85256 (480) 362–7720.
6. HYDRANT METER LOCATION SHALL BE PRE–APPROVED BY PUBLIC WORKS PRIOR TO APPLICATION FOR HYDRANT METER REQUEST. CALL PUBLIC WORKS AT (480) 362–5600 FOR QUESTIONS.

FIRE HYDRANT METER ASSEMBLY

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4306



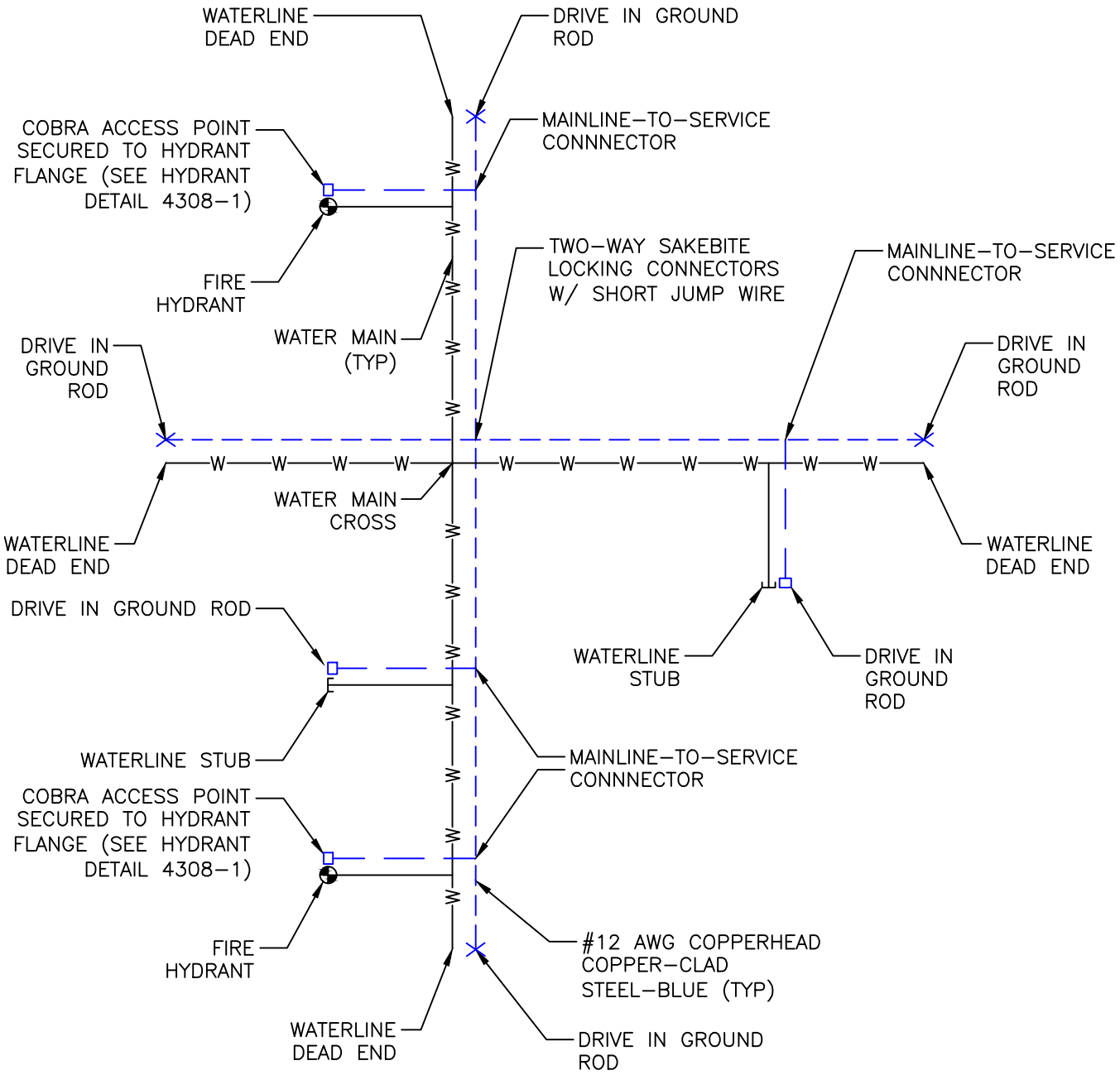
NOTES:

1. WATER SERVICE, 1" DIA. (EXCEPT AS NOTED) INSTALL WITH MUNICIPEX PIPE. SERVICE LINE PER SRP-MIC STANDARD DETAIL 4300.
2. 3/4" MINIMUM COPPER WATER SERVICE LINE ASSEMBLY, NSF61 COMPLIANT WITH I.R.C.
3. FULL WAY VALVE (GATE OR BALL) FOR BUILDING SHUTOFF.
4. LEAD FREE HOSE BIB WITH VACUUM BREAKER.
5. SECURE ASSEMBLY TO MOBILE HOME EXTERIOR.

N.T.S.

MOBILE HOME WATER SERVICE CONNECTION
RESIDENTIAL WATER ASSEMBLY (NO FIRE SPRINKLER)

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4307



SAMPLE PLAN (WATER)

GENERAL NOTES:

WIRE SHOWN AWAY FROM THE PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON TOP OF WATER LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH 10 MIL TAPE.

N.T.S.

COPPERHEAD WATERLINE LOCATING SYSTEM

REVISED	STANDARD DETAIL	DETAIL NO.
2024	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	4308–2

GENERAL NOTES:

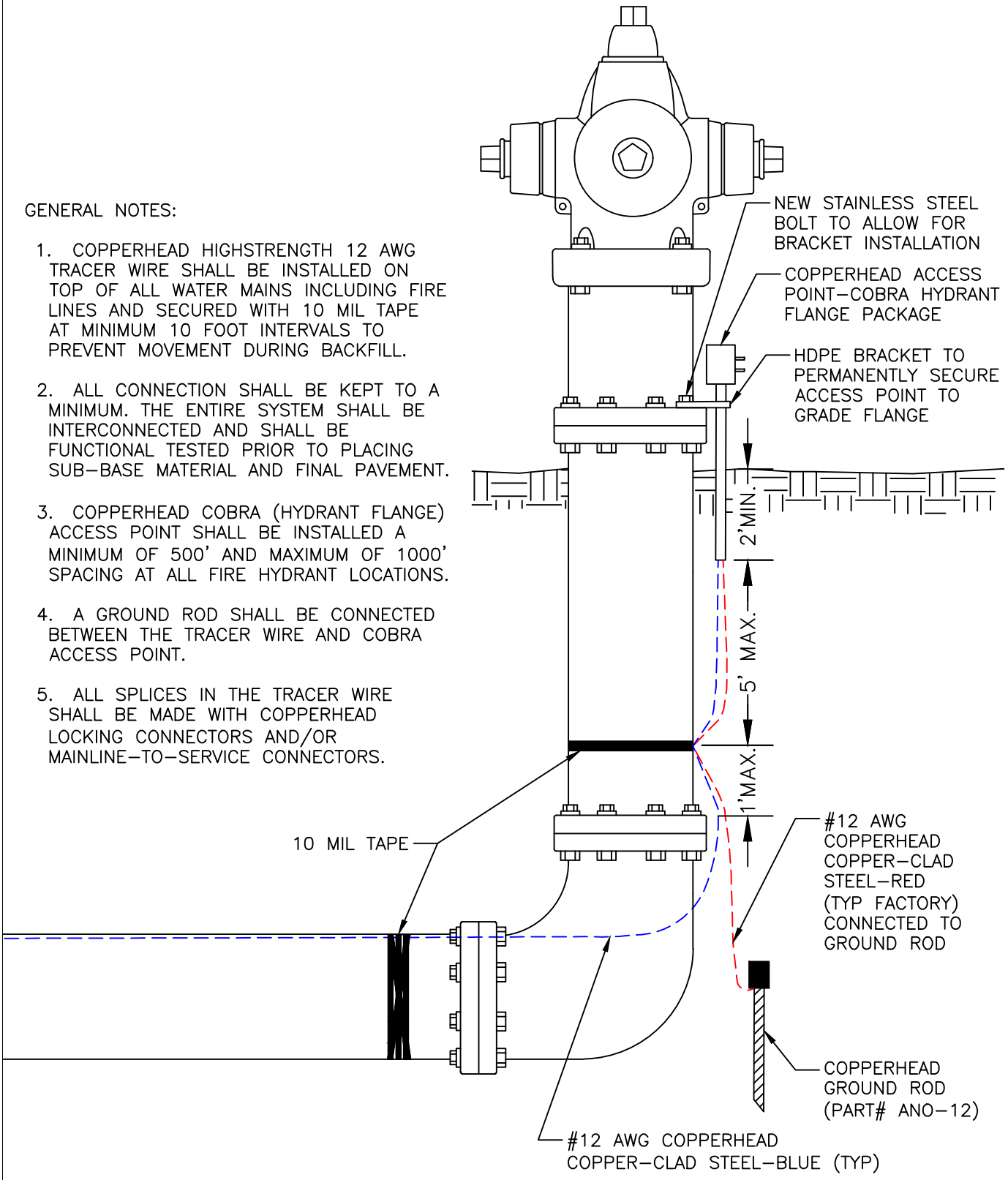
1. COPPERHEAD HIGHSTRENGTH 12 AWG TRACER WIRE SHALL BE INSTALLED ON TOP OF ALL WATER MAINS INCLUDING FIRE LINES AND SECURED WITH 10 MIL TAPE AT MINIMUM 10 FOOT INTERVALS TO PREVENT MOVEMENT DURING BACKFILL.

2. ALL CONNECTION SHALL BE KEPT TO A MINIMUM. THE ENTIRE SYSTEM SHALL BE INTERCONNECTED AND SHALL BE FUNCTIONAL TESTED PRIOR TO PLACING SUB-BASE MATERIAL AND FINAL PAVEMENT.

3. COPPERHEAD COBRA (HYDRANT FLANGE) ACCESS POINT SHALL BE INSTALLED A MINIMUM OF 500' AND MAXIMUM OF 1000' SPACING AT ALL FIRE HYDRANT LOCATIONS.

4. A GROUND ROD SHALL BE CONNECTED BETWEEN THE TRACER WIRE AND COBRA ACCESS POINT.

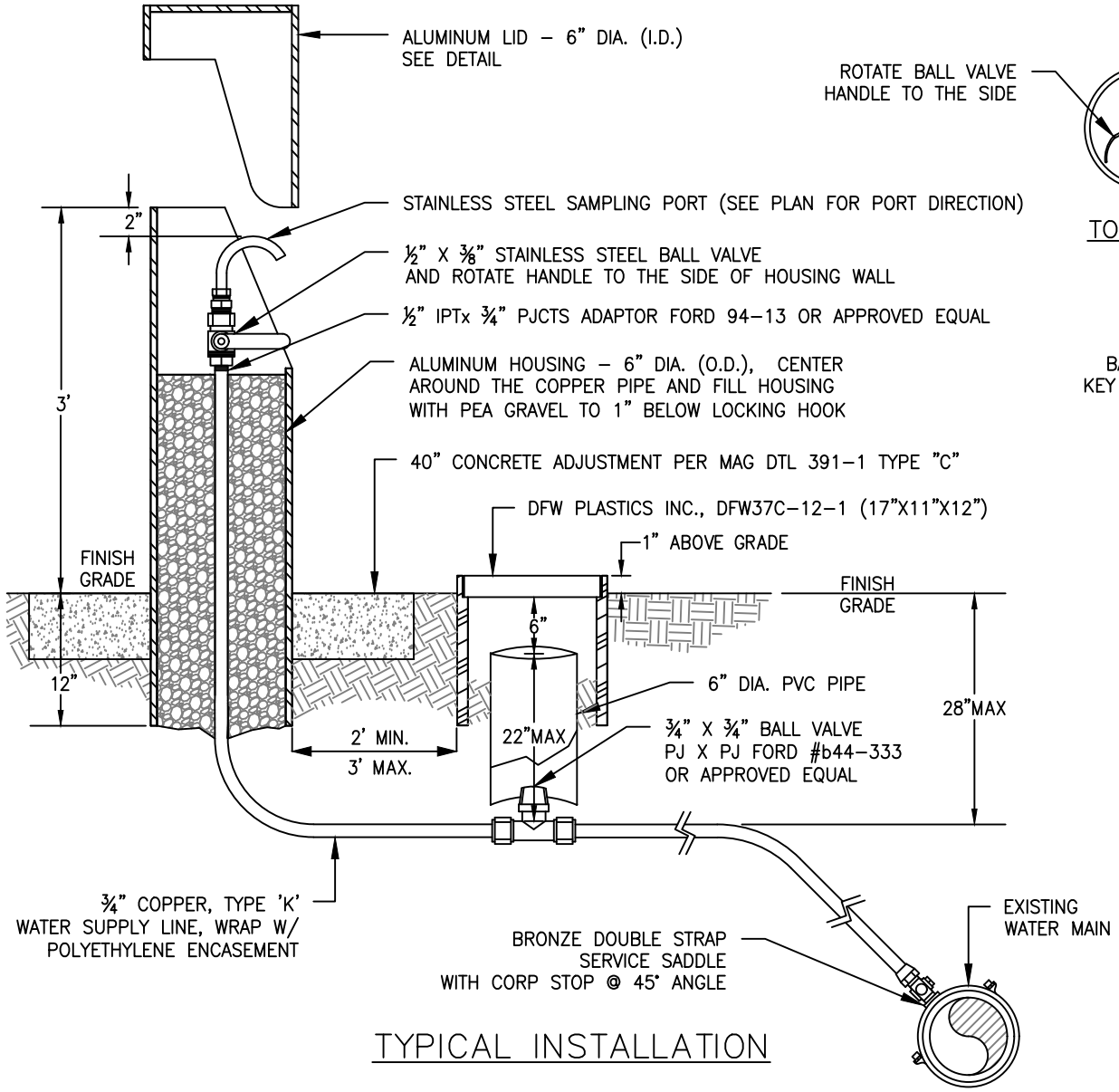
5. ALL SPLICES IN THE TRACER WIRE SHALL BE MADE WITH COPPERHEAD LOCKING CONNECTORS AND/OR MAINLINE-TO-SERVICE CONNECTORS.



N.T.S.

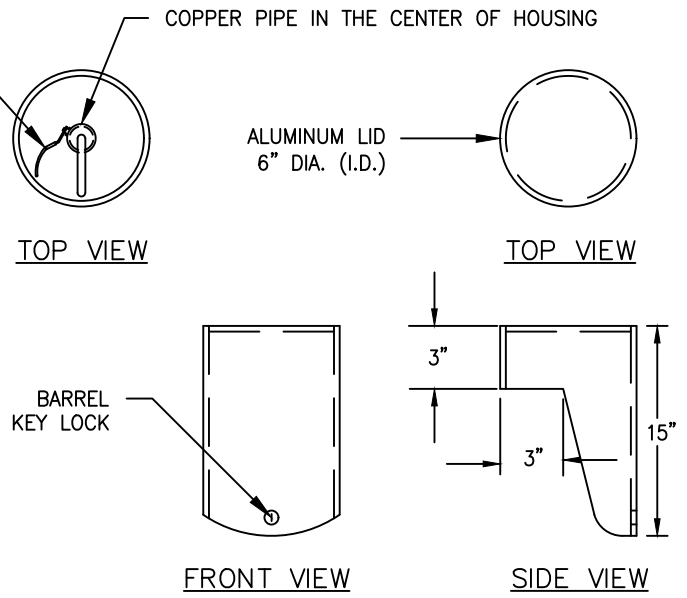
COPPERHEAD WATERLINE LOCATING SYSTEM FIRE HYDRANT DETAIL

REVISED		DETAIL NO.
2024	STANDARD DETAIL SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	4308-1



TYPICAL INSTALLATION

N.T.S.



LID DETAILS

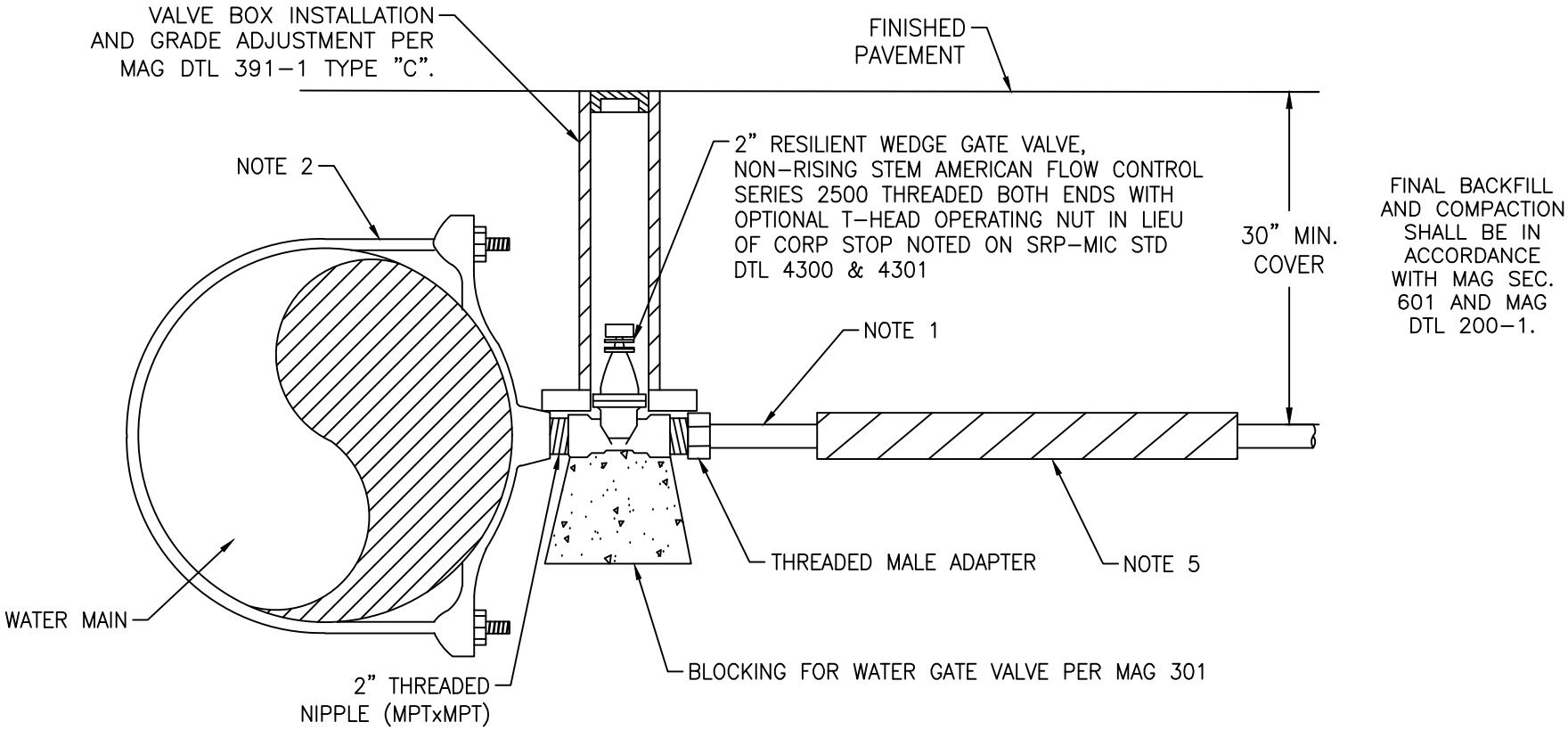
N.T.S.

NOTES:

1. WATER QUALITY SAMPLING STATION TO BE KORALEEN STATION GUARD XLT OR APPROVED EQUAL.
2. KEYS TO LOCKS SHALL BE DELIVERED TO SRP–MIC PUBLIC WORKS WATER RESOURCES UPON ACCEPTANCE.
3. WRAP ALL COPPER W/ POLYETHYLENE ENCASEMENT.

WATER SAMPLING STATION

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4309



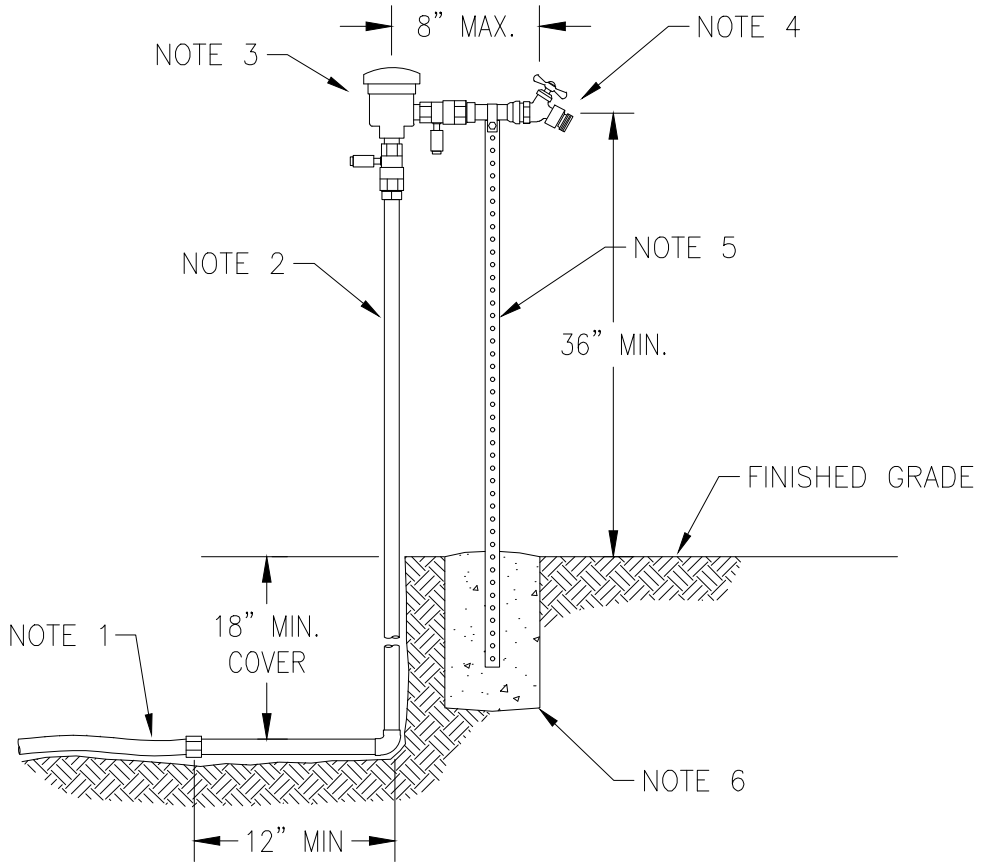
NOTES:

1. WATER SERVICE, 2" DIA. INSTALL WITH MUNICIPEX PIPE. BEDDING, HAUNCHING, AND INITIAL BACKFILL MATERIAL SHALL BE ABC COMPACTED TO MIN 95% DENSITY PER MAG DTL 200-3. 3/4" MINUS NATIVE MATERIAL SHALL ONLY BE USED WITH COMMUNITY APPROVAL.
2. FOR DIP AND ACP PIPE INSTALLATION INSTALL DOUBLE-STRAP BRONZE SERVICE SADDLE WITH BRONZE FULL CIRCLE CLAMP. WRAP SADDLE AND CORP STOP WITH 10-MIL POLYWRAP. FOR PVC PIPE INSTALLATION INSTALL FOUR BOLT SADDLE WITH WIDE STAINLESS STEEL STRAP.
3. SERVICE TAPS SHALL BE MADE PRIOR TO ANY TESTING.
4. CONTRACTORS SHALL COORDINATE SHUTDOWN OF EXISTING LINES WITH SRP-MIC PUBLIC WORKS, THREE (3) WORKING DAYS NOTICE 480-362-5600 OR E-MAIL TO (PWCUSTOMERSERVICE@SRPMIC-NSN.GOV).
5. CASING FOR WATER SERVICE THAT CROSS EXISTING ASPHALT PAVEMENT. CASING WILL BE PVC SCH-40 PIPE, 2X THE WATER SERVICE PIPE DIAMETER AND EXTEND 5' MIN. BEYOND ROADWAY EDGE. SEAL ENDS OF CASING WITH FOAM.

N.T.S.

2" WATER CONNECTION TO MAIN

REVISED 2024	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4310



NOT TO SCALE

NOTES:

1. WATER SERVICE, 1" DIA. (EXCEPT AS NOTED) INSTALL WITH BLUE MUNICIPEX PIPE. SERVICE LINE PER SRP–MIC STANDARD DETAIL 4300.

2. ¾" MINIMUM COPPER WATER SERVICE LINE ASSEMBLY, NSF61 COMPLIANT WITH I.R.C.

3. ¾" WILKINS PRESSURE VACUUM BREAKER ASSEMBLY.

4. ¾" LEAD FREE HOSE BIB.

5. 1–⅝" SLOTTED STANDARD STRUT CHANNEL STAINLESS STEEL, STRAP CONNECTION AT HOSE BIB AND BASE EMBEDDED IN CONCRETE, 8" MIN DEPTH.

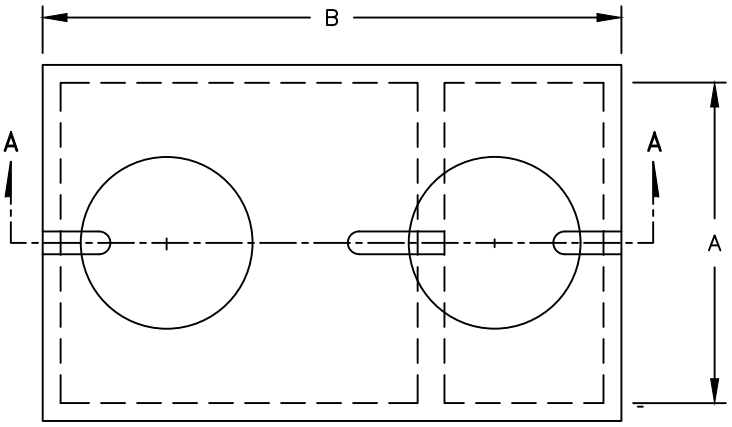
6. 10" DIA. x 12" DEPTH CONCRETE BASE, USE 10" DIA. CONCRETE FORM TUBE TO POUR THE BASE.

N.T.S.

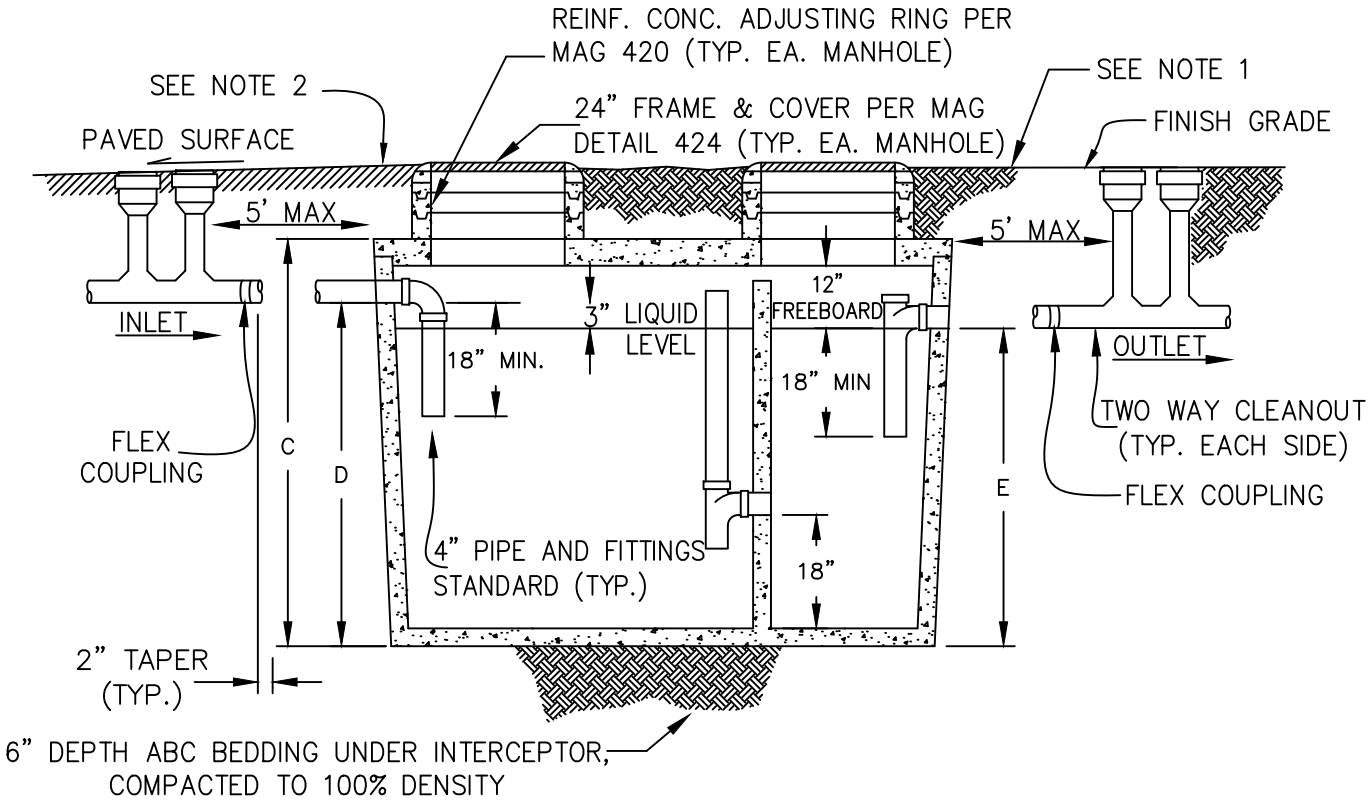
3/4" HOSE BIB W /PRESSURE VACUUM BREAKER
RESIDENTIAL HOME

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4311

PLAN VIEW
(COVERS AND RINGS NOT SHOWN)



SECTION A–A



TANK SIZE	A	B	C	D	E
500	4'–0"	6'–0"	5'–10"	4'–10"	4'–7"

N.T.S.

500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED 2018	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO. 4400–1

NOTES

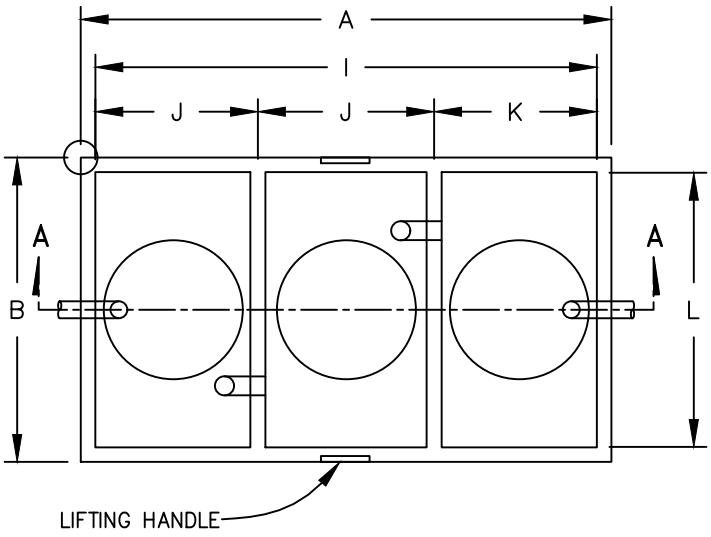
1. NOT APPROVED FOR USE INSIDE AN ENCLOSED BUILDING.
2. DIMENSIONS SHOWN ARE THE MINIMUM ALLOWABLE FOR THIS TYPE OF INTERCEPTOR.
3. CONSTRUCTED OF IMPERVIOUS MATERIAL BEING WATERTIGHT AND CAPABLE OF WITHSTANDING ABRUPT AND EXTREME WEATHER CHANGES.
4. PRE-CAST TO BE REINFORCED WITH 3000 PSI CONCRETE AS REQUIRED TO MEET STRUCTURAL REQUIREMENTS.
5. EXCAVATION MUST ALLOW FOR A MINIMUM OF 12" CLEARANCE AROUND TANK. EXCAVATION AND BACKFILL SHALL BE PER MAG SECTION 206 OR HALF SACK SLURRY FILL.
6. ELEVATE SIDEWALLS ABOVE SURROUNDING GROUND SURFACE, AS SHOWN IN DETAIL TO EXCLUDE SURFACE WATERS.
7. IF INSTALLED IN A PAVED AREA, SLOPE SURFACE TO PROTECT AGAINST THE ENTRANCE OF SURFACE WATER RUN-OFF. COVERS SHALL BE WATERTIGHT AND TRAFFIC RATED WHEN REQUIRED.
8. GRADE RING/RISER EXTENSION MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT. RISER EXTENSIONS SHALL BE CONSTRUCTED OF BRICK, PRE-CAST, OR CAST IN PLACE.
9. EQUIPPED WITH EASILY REMOVABLE COVERS. WHEN BOLTED COVERS ARE REQUIRED THEY SHALL BE GAS AND WATER TIGHT.
10. A TWO-WAY CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE INTERCEPTOR INLET AND OUTLET.
11. INLET AND OUTLET TO BE WATER TIGHT, MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT.
12. INLET – 90° ELBOW. FLEX COUPLING BETWEEN TWO-WAY CLEANOUT AND INLET. INLET MUST BE 2" HIGHER THAN OUTLET.

N.T.S.

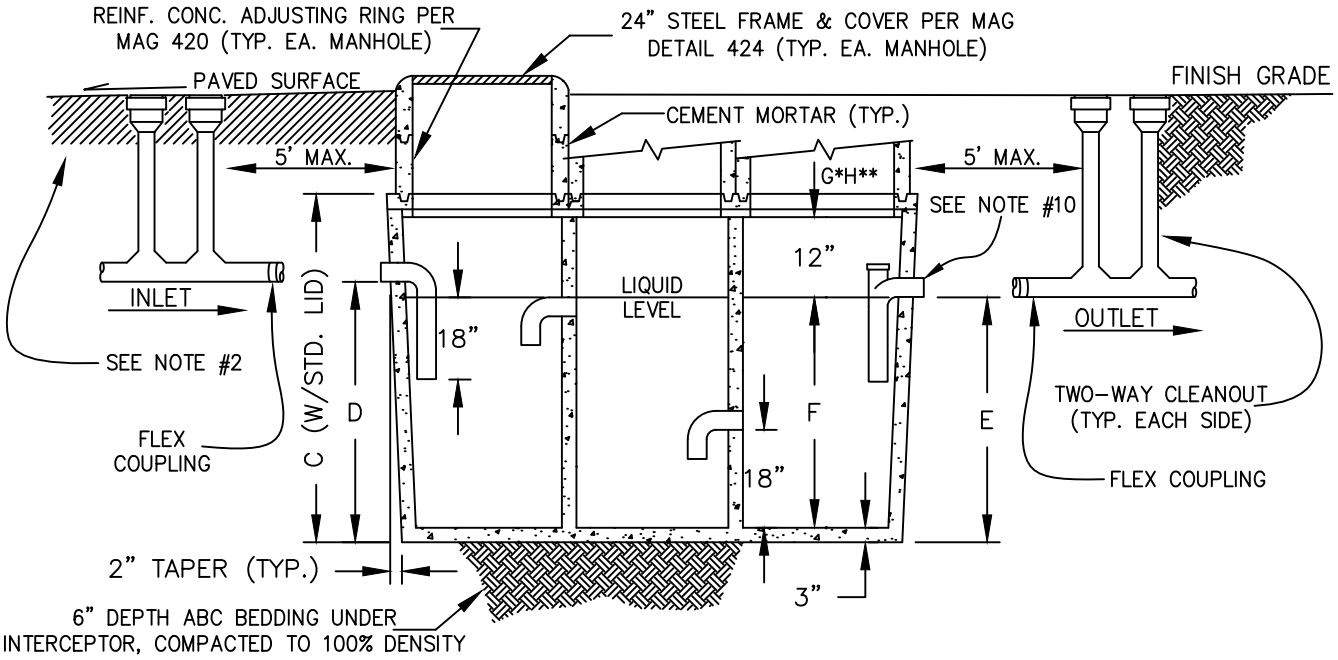
500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2018		4400-2

PLAN VIEW



SECTION A–A



TANK SIZE	A	B	C	D	E	F	G	H	I	J	K	L
750	102"	50"	69"	54"	51"	48"	6"	6"	96"	31"	31"	44"
1050	125"	61"	64"	48"	46"	43"	6"	8"	119"	40"	39"	55"
1250	125"	61"	72"	56"	54"	51"	6"	8"	119"	40"	39"	55"
1500	125"	61"	82"	66"	64"	61"	6"	8"	119"	40"	39"	55"
2000	156"	81"	71"	53"	51"	48"	8"	10"	150"	51"	48"	75"
2500	156"	81"	80"	62"	60"	57"	8"	10"	150"	51"	48"	75"

N.T.S.

750 – 2500 GALLON GRAVITY GREASE INTERCEPTOR

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2018		4401–1

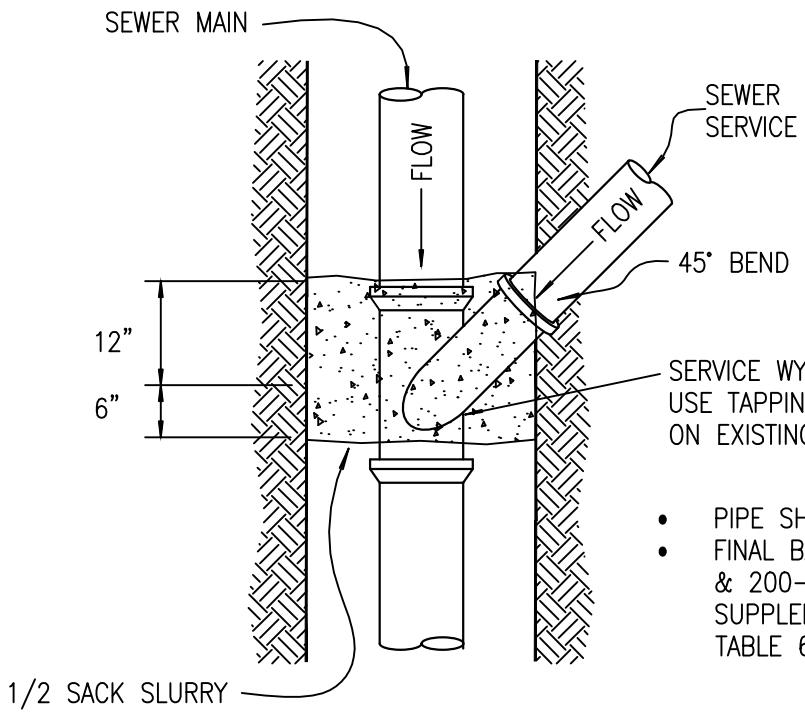
NOTES

1. NOT APPROVED FOR USE INSIDE AN ENCLOSED BUILDING.
2. DIMENSIONS SHOWN ARE THE MINIMUM ALLOWABLE FOR THIS TYPE OF INTERCEPTOR.
3. CONSTRUCTED OF IMPERVIOUS MATERIAL BEING WATERTIGHT AND CAPABLE OF WITHSTANDING ABRUPT AND EXTREME WEATHER CHANGES.
4. PRE-CAST TO BE REINFORCED WITH 3000 PSI CONCRETE AS REQUIRED TO MEET STRUCTURAL REQUIREMENTS.
5. EXCAVATION MUST ALLOW FOR A MINIMUM OF 12" CLEARANCE AROUND TANK. EXCAVATION AND BACKFILL SHALL BE PER MAG SECTION 206 OR HALF SACK SLURRY FILL.
6. ELEVATE SIDEWALLS ABOVE SURROUNDING GROUND SURFACE, AS SHOWN IN DETAIL TO EXCLUDE SURFACE WATERS.
7. IF INSTALLED IN A PAVED AREA, SLOPE SURFACE TO PROTECT AGAINST THE ENTRANCE OF SURFACE WATER RUN-OFF. COVERS SHALL BE WATERTIGHT AND TRAFFIC RATED WHEN REQUIRED.
8. GRADE RING/RISER EXTENSION MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT. RISER EXTENSIONS SHALL BE CONSTRUCTED OF BRICK, PRE-CAST, OR CAST IN PLACE.
9. EQUIPPED WITH EASILY REMOVABLE COVERS. WHEN BOLTED COVERS ARE REQUIRED THEY SHALL BE GAS AND WATER TIGHT.
10. A TWO-WAY CLEANOUT SHALL BE INSTALLED WITHIN 5 FEET OF THE INTERCEPTOR INLET AND OUTLET.
11. INLET AND OUTLET TO BE WATER TIGHT, MUST BE GROUTED WITH NON-SHRINK AND WATER PROOF GROUT.
12. INLET – 90° ELBOW. FLEX COUPLING BETWEEN TWO-WAY CLEANOUT AND INLET. INLET MUST BE 2" HIGHER THAN OUTLET.

N.T.S.

750 – 2500 GALLON GRAVITY GREASE INTERCEPTOR

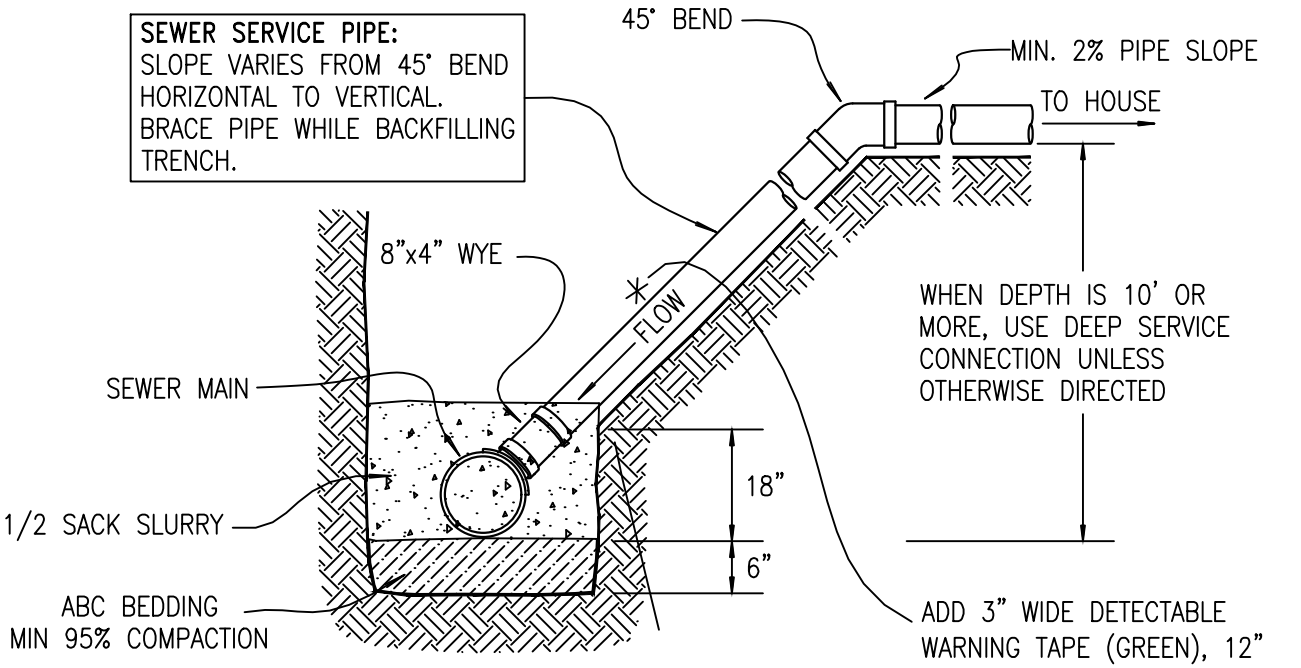
REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2018		4401-2



- PIPE SHALL BE PVC SDR 26
- FINAL BACKFILL PER MAG DETAIL 200-1 & 200-2 AND PER SRP-MIC SUPPLEMENTS TO MAG SPECIFICATIONS TABLE 601-2.

ELECTRONIC GREEN MARKING BALL (3M MODEL 1424-XR/ID 4" D14 SELF LEVELING) 2'-4' DEPTH BELOW FINISH GRADE

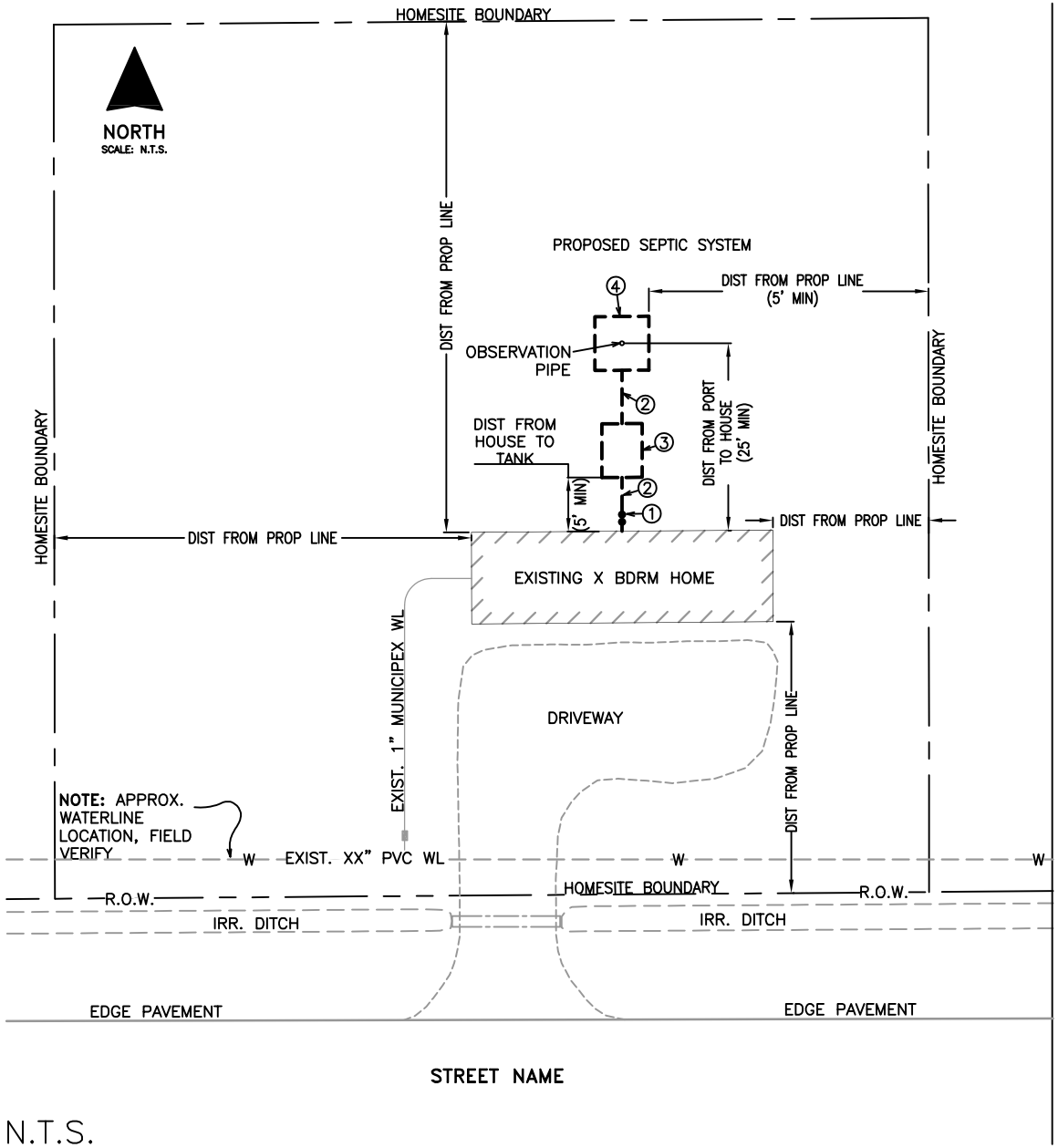
SEWER SERVICE PIPE:
SLOPE VARIES FROM 45° BEND HORIZONTAL TO VERTICAL.
BRACE PIPE WHILE BACKFILLING TRENCH.



N.T.S.

DEEP SEWER SERVICE

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4402



N.T.S.

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

–CONTACT SRP–MIC PUBLIC WORKS, FIVE WORKING DAYS BEFORE YOU DIG (480) 362–5600

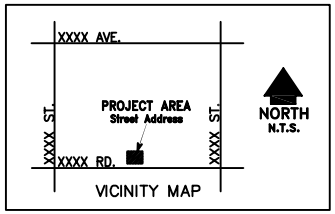
SEPTIC SYSTEM CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
①	INSTALL 4" TWO WAY CLEAN OUT, PER DETAIL "A", SEPTIC TANK & DRYWELL DETAIL.	EA	XX
②	INSTALL 4" SDR 26 PVC PIPE @ ¼" PER FOOT MIN. SLOPE. (2%)	LF	XX
③	INSTALL XXXX GAL. CONCRETE SEPTIC TANK PER DETAIL "D", SEPTIC TANK & DRY WELL DETAIL.	EA	XX
④	INSTALL DRYWELL PER DETAIL "C" & "D", SEPTIC TANK AND DRYWELL DETAIL.	EA	XX

NOTE:

1. PREFERRED LOCATION OF SEPTIC SYSTEM IS IN THE BACK YARD OR SIDE YARD AWAY FROM VEHICULAR TRAFFIC AREAS. SRPMIC PUBLIC WORKS MAY APPROVE ALTERNATE LOCATIONS ON A CASE BY CASE BASIS.

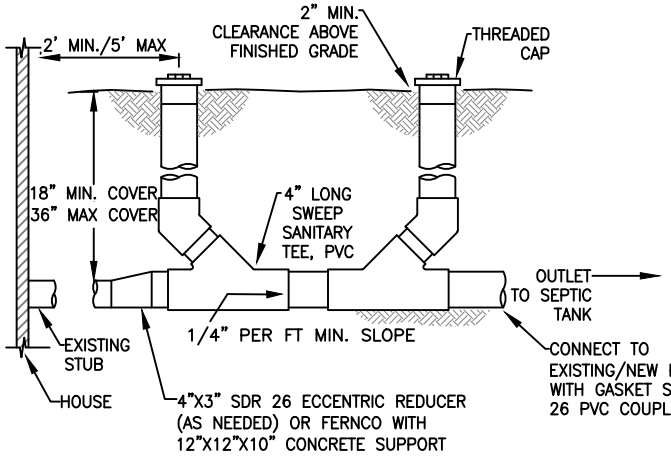
MINIMUM HORIZONTAL SEPARATION DISTANCES FOR DRYWELLS/SOIL ABSORPTION SYSTEM	
ELEMENT	DISTANCE (FT.)
HABITABLE BUILDING, BELOW–GRADE FOUNDATION	25
HABITABLE BUILDING, SLAB–ON–GRADE	15
LOT LINE	5
RESERVIOR	50
ROADWAY DITCHES	10
STREAMS OR WATERCOURSES	50
SWIMMING POOL	15
UNINHABITED BUILDING	10
WATER MAIN	50
WATER SERVICE	10
WATER WELL	50

MINIMUM HORIZONTAL SEPARATION DISTANCES FOR SEPTIC TANKS	
ELEMENT	DISTANCE (FT.)
BUILDING	5
FOUNDATION WALL	5
LOT LINE	2
POND	25
RESERVOIR	25
STREAMS OR WATERCOURSES	25
SWIMMING POOL	15
WATER SERVICE	5
WELL	25

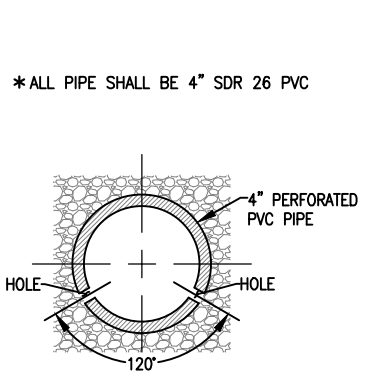


RESIDENTIAL SEPTIC TANK & DRYWELL PLAN

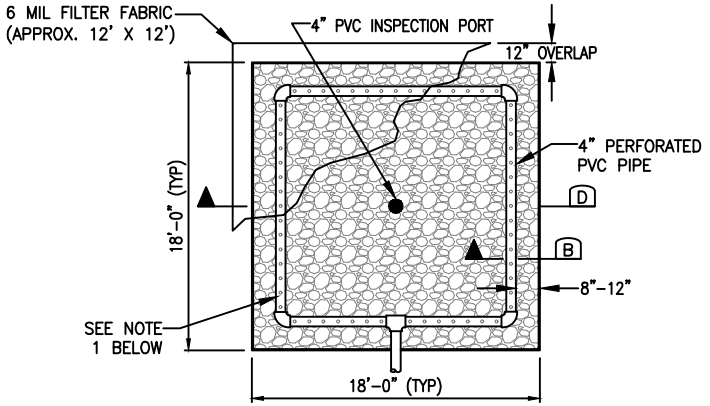
REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4403–1



TWO-WAY CLEANOUT DETAIL (A)
N.T.S.

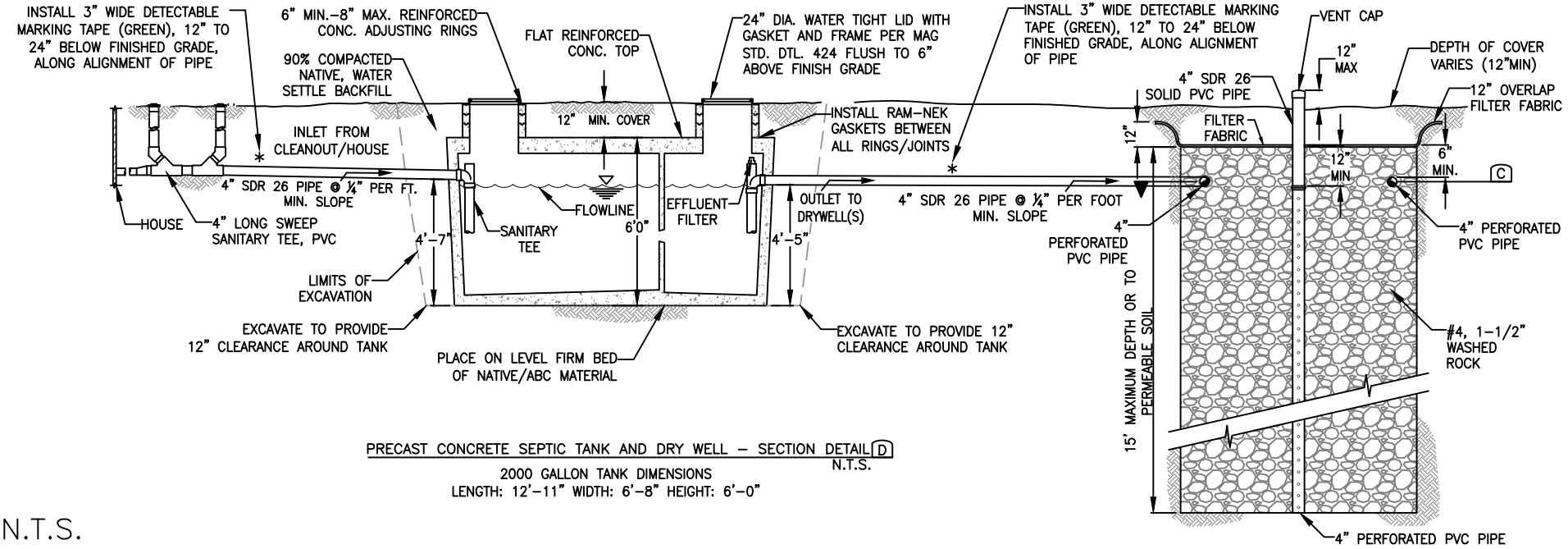


4" PERFORATED PIPE SECTION (B)
N.T.S.



NOTE:
1. 4" PERFORATED PIPE SHALL BE INSTALLED AT 1-2% SLOPE.

DRYWELL - TOP VIEW (C)
N.T.S.



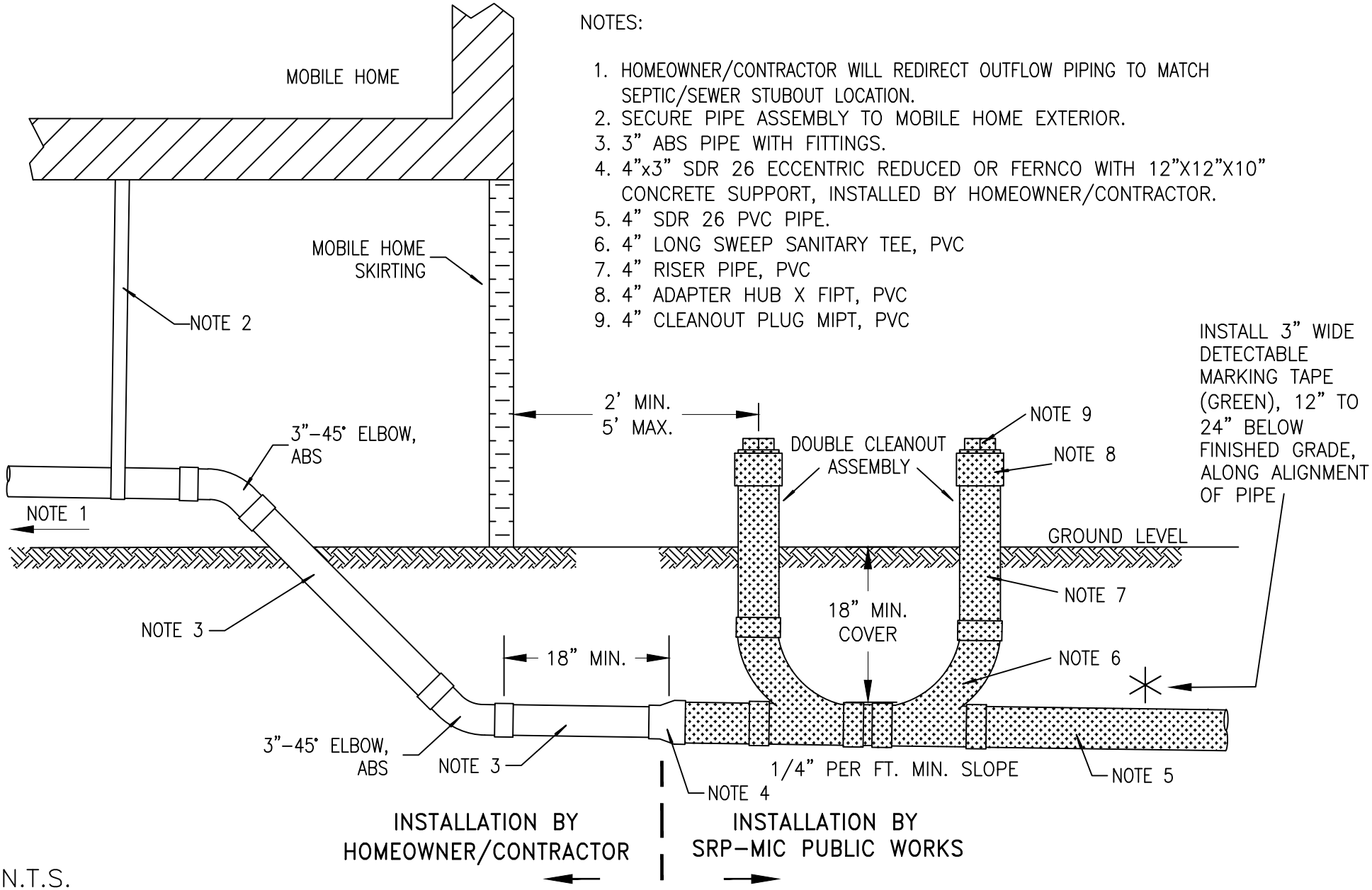
PRECAST CONCRETE SEPTIC TANK AND DRY WELL - SECTION DETAIL (D)
N.T.S.

2000 GALLON TANK DIMENSIONS
LENGTH: 12'-11" WIDTH: 6'-8" HEIGHT: 6'-0"

N.T.S.

RESIDENTIAL SEPTIC TANK & DRYWELL

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4403-2



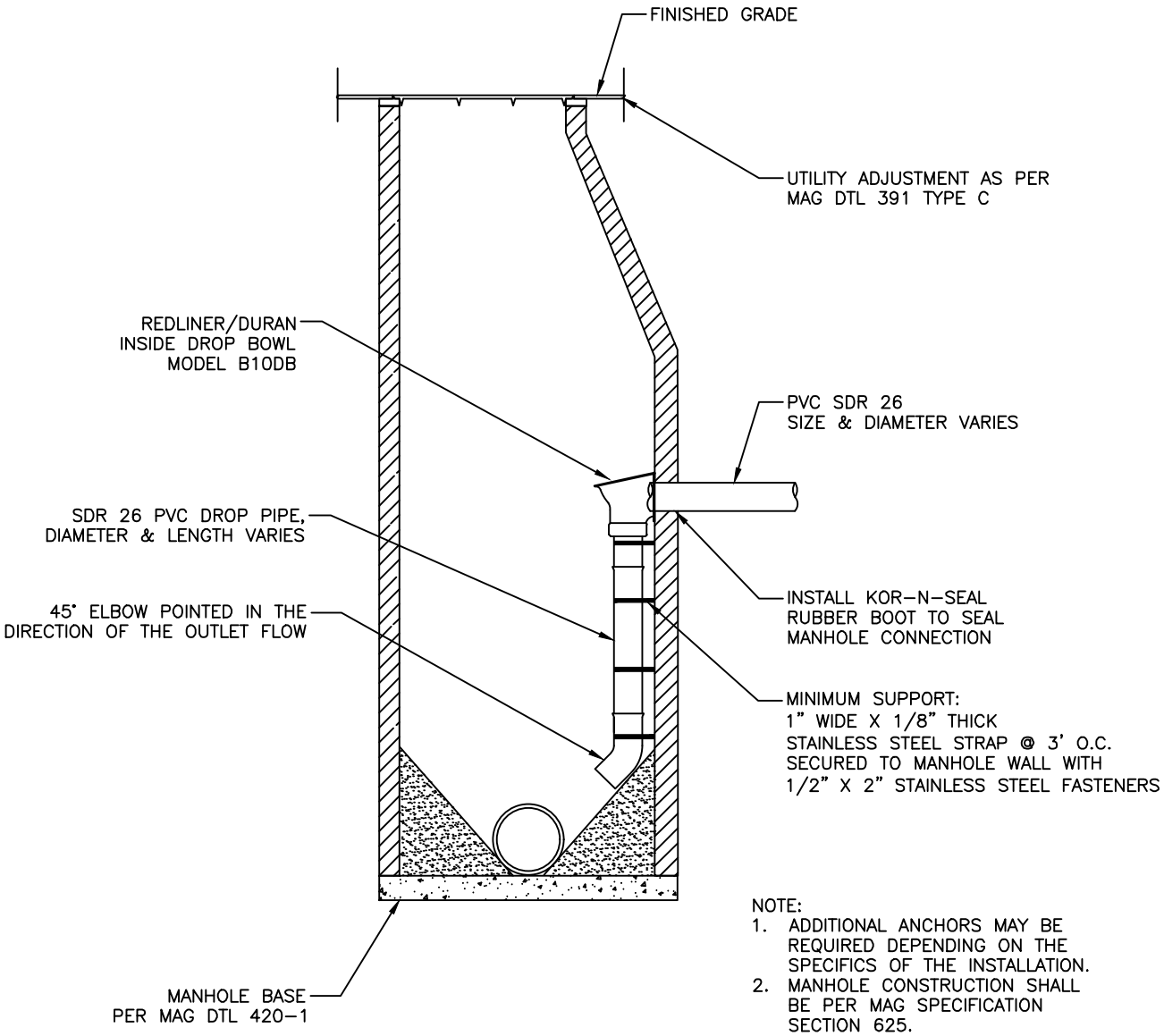
NOTES:

1. HOMEOWNER/CONTRACTOR WILL REDIRECT OUTFLOW PIPING TO MATCH SEPTIC/SEWER STUBOUT LOCATION.
2. SECURE PIPE ASSEMBLY TO MOBILE HOME EXTERIOR.
3. 3" ABS PIPE WITH FITTINGS.
4. 4"x3" SDR 26 ECCENTRIC REDUCED OR FERNCO WITH 12"X12"X10" CONCRETE SUPPORT, INSTALLED BY HOMEOWNER/CONTRACTOR.
5. 4" SDR 26 PVC PIPE.
6. 4" LONG SWEEP SANITARY TEE, PVC
7. 4" RISER PIPE, PVC
8. 4" ADAPTER HUB X FIPT, PVC
9. 4" CLEANOUT PLUG MIPT, PVC

N.T.S.

MOBILE HOME SEPTIC/SEWER CONNECTION

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4404

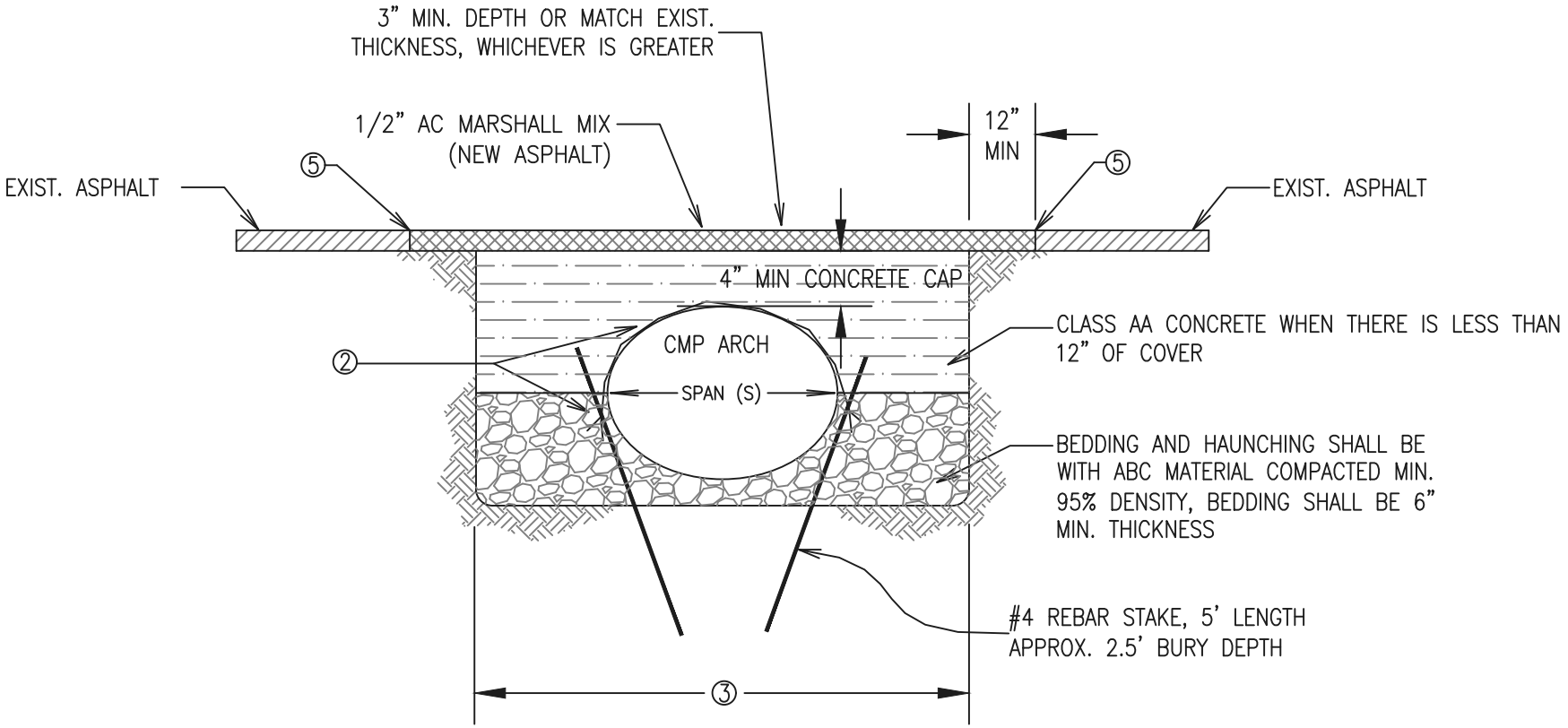


NOTE:
1. ADDITIONAL ANCHORS MAY BE REQUIRED DEPENDING ON THE SPECIFICS OF THE INSTALLATION.
2. MANHOLE CONSTRUCTION SHALL BE PER MAG SPECIFICATION SECTION 625.
3. THIS DETAIL CAN ME USED IN PLACE OF MAG 426 UPON APPROVAL BY THE COMMUNITY.

N.T.S.

DROP MANHOLE CONNECTION

REVISED	STANDARD DETAIL	DETAIL NO.
2024	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY	4405



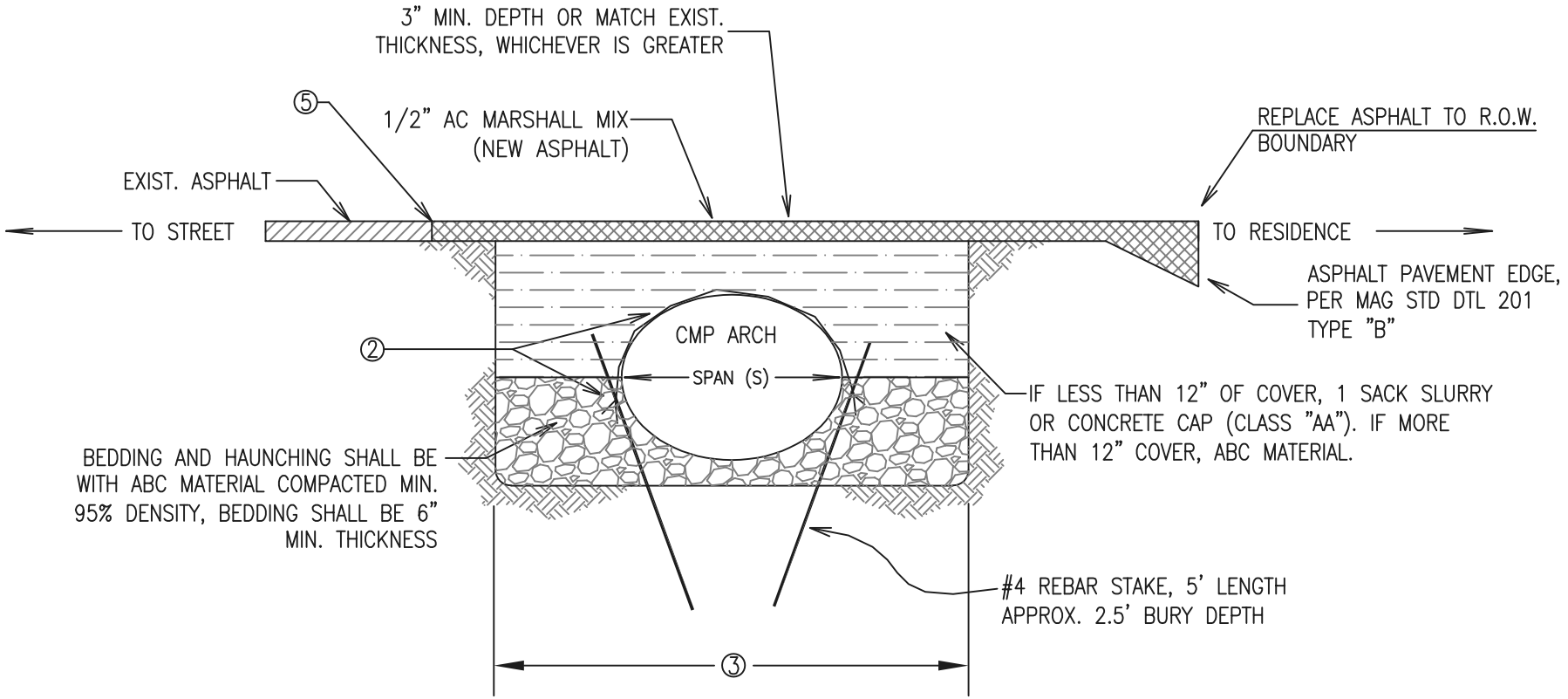
NOTE:

1. THE REBAR STAKES AND TIE WIRE ARE REQUIRED TO PREVENT THE FLOTATION OF THE CULVERT DURING THE CONCRETE POUR.
2. SECURELY WRAP TIE WIRE AROUND CULVERT AND REBAR STAKE. PLACE STAKES APPROXIMATELY 2' FROM END PIPE, THEN PLACE EVERY 5'.
3. MINIMUM TRENCH WIDTH MUST ALLOW FOR PROPER COMPACTION OF MATERIALS UNDER THE PIPE. MINIMUM TRENCH WIDTH SHALL BE 1.5S +12", WHERE S IS THE SPAN OF THE PIPE.
4. PIPE SHALL BE PLACED IN THE CENTERLINE OF THE TRENCH.
5. SAWCUT EDGE & TACK, CRACK FILL ALL NEW SEAMS PER SRP-MIC MAG SUPPLEMENT SECT. 336 & MAG SECT. 337
6. END SECTIONS FOR PIPE ARCH, TYPE-2.
7. 30" MINIMUM DIAMETER EQUIVALENT CMP ARCH X 44' LENGTH, UNLESS APPROVED BY THE COMMUNITY.
8. OBJECT MARKERS ARE REQUIRED WHEN END SECTIONS ARE WITHIN THE CLEAR ZONE.

N.T.S.

MAJOR STREET CROSS SECTION

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4500



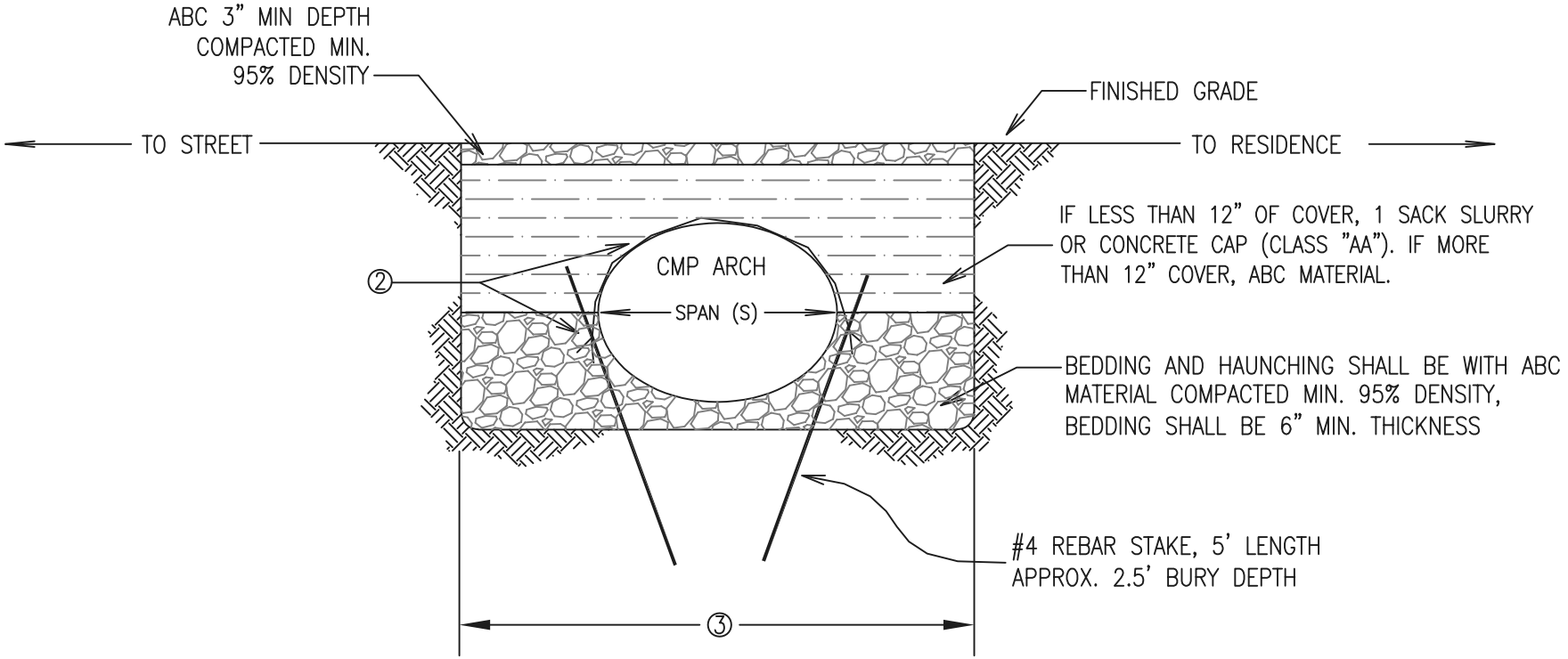
NOTE:

1. THE REBAR STAKES AND TIE WIRE ARE REQUIRED TO PREVENT THE FLOTATION OF THE CULVERT DURING THE SLURRY POUR.
2. SECURELY WRAP TIE WIRE AROUND CULVERT AND REBAR STAKE. PLACE STAKES APPROXIMATELY 2' FROM END PIPE, THEN PLACE EVERY 5'.
3. MINIMUM TRENCH WIDTH MUST ALLOW FOR PROPER COMPACTION OF MATERIALS UNDER THE PIPE. MINIMUM TRENCH WIDTH SHALL BE 1.5S +12", WHERE S IS THE SPAN OF THE PIPE.
4. PIPE SHALL BE PLACED IN THE CENTERLINE OF THE TRENCH.
5. SAWCUT EDGE & TACK, CRACK FILL ALL NEW SEAMS PER SRP-MIC MAG SUPPLEMENT SECT. 336 & MAG SECT. 337
6. 30" MINIMUM DIAMETER EQUIVALENT CMP ARCH X 30' LENGTH FOR PRIVATE DRIVEWAYS.
7. END SECTIONS FOR PIPE ARCH, TYPE-2.

N.T.S.

RESIDENTIAL ASPHALT DRIVEWAY CROSS SECTION

REVISED	SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY CONSTRUCTION DETAIL	DETAIL NO.
2024		4501



NOTE:

1. THE REBAR STAKES AND TIE WIRE ARE REQUIRED TO PREVENT THE FLOTATION OF THE CULVERT DURING THE SLURRY POUR.
2. SECURELY WRAP TIE WIRE AROUND CULVERT AND REBAR STAKE. PLACE STAKES APPROXIMATELY 2' FROM END PIPE, THEN PLACE EVERY 5'.
3. MINIMUM TRENCH WIDTH MUST ALLOW FOR PROPER COMPACTION OF MATERIALS UNDER THE PIPE. MINIMUM TRENCH WIDTH SHALL BE 1.5S +12", WHERE S IS THE SPAN OF THE PIPE.
4. PIPE SHALL BE PLACED IN THE CENTERLINE OF THE TRENCH.
5. 30" MINIMUM DIAMETER EQUIVALENT CMP ARCH X 30' LENGTH FOR PRIVATE DRIVEWAYS.
6. END SECTIONS FOR PIPE ARCH, TYPE–2.

N.T.S.

RESIDENTIAL GRAVEL DRIVEWAY CROSS SECTION

REVISED	SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY	DETAIL NO.
2024	CONSTRUCTION DETAIL	4502

General Notes:

The following notes are to appear on applicable plans submitted to ECS Compliance:

A construction permit is required to commence any construction.

1. All construction within roadway Right-of-Way shall conform to the latest MAG Uniform Standard Specifications and Details and the SRPMIC Supplement to MAG Uniform Standard Specifications and Details and SRPMIC Standards and Details.
2. The Contractor shall maintain a copy of the current approved construction plans, specifications, project documents, SRPMIC Supplement to MAG Uniform Standard Specifications and Details for Public Works Construction and construction permit on-site at all times.
3. The Contractor shall contact SRPMIC Cultural/EPNR prior to any ground disturbance (480) 362-7500.
4. When Community water is requested to be used for construction, access and supply must be from an approved and available fire hydrant. All water use shall be metered through a Community supplied hydrant meter. The contractor shall be required to start a hydrant meter account for each new hydrant meter requested with the SRPMIC Public Work Department - Water Resources. Application and information can be found at https://www.srpmic-nsn.gov/government/public-works/commercial/#ObtainHydrantMeter
5. The Contractor shall schedule inspection with the SRPMIC Engineering and Construction Services (ECS) Compliance Division 24 hours in advance for all onsite and offsite construction (480) 362-7910.
6. After Hour Inspections: Requested after hour inspections shall be charged $200.00 per hour at a 3 hour minimum. Fees shall be paid to ECS Compliance in advance of requested inspections during normal working hours. No refunds will be given for unused inspection fees.
7. The Contractor shall schedule inspections 48 hours in advance with the Community Inspector and Salt River Fire Department for all fire hydrants, fire lines and FDCs prior to placing pipe shading and for pressure testing the fire lines. (480) 362-7290.
8. Contractor shall schedule a pre-construction meeting a minimum of five (5) days prior to commencing all major phases of work. Include: SRPMIC Compliance Division, Public Works Department and all affected government agencies, utility companies and contractors. A pre-construction meeting cannot be scheduled until the required SRPMIC permits are obtained.
9. Any work performed without the knowledge and approval of the Community is subject to removal and replacement at the contractor's expense.
10. In addition to contacting Arizona 811 at (602) 659-7500, the Contractor shall contact SRP-MIC PWD at (480) 362-5600 or pwcustomerservice@srpmic-nsn.gov five working days prior to any construction to locate and mark Tribal utilities.
11. Contractor shall submit traffic control plans to Public Works Department (Richard.alvarado@srpmic-nsn.gov) for review, three (3) days prior to any construction affecting public traffic. Traffic Control Plans shall meet the requirements of the MUTCD, latest edition.
12. Truck and haul routes shall comply with Council approved truck route. A copy of approved haul routes may be obtained from ECS Compliance Division. The Contractor shall obtain haul permits as required by ECS Compliance Division.
13. The Contractor shall prevent any dust nuisance due to construction operations in accordance with MAG Section 104 Scope of Work-Cleanup and Dust Control.
14. Contractor shall contact EPNR at (480) 362-7639 and comply with all dust control requirements.
15. When engaged in a fugitive dust generating operation, the Contractor shall install, maintain, and use dust control measures, if applicable. The Contractor shall implement control measures before, after, and while conducting fugitive dust operations, including weekends, after work hours, and on holidays. If requested, the Contractor shall submit a Dust Control Plan to the Project Manager prior to beginning operations. Contractor shall not begin operations until Dust Control Plan has been approved by the Environmental Protection and Natural Resources (EPNR).

SALT RIVER PIMA–MARICOPA INDIAN COMMUNITY
PUBLIC WORKS CONSTRUCTION NOTES

16. SRPMIC reserves the right to request additional tests. Where nuclear density tests are used, one sand cone test shall be conducted at the beginning of testing and for every ten tests thereafter.
17. A minimum of one temporary fire department access roadway shall be installed prior to and during construction of every facility, building or portion of building and maintain a roadway 16 feet wide, with minimum 4-inch thickness of aggregate base course or decomposed granite compacted to 90% density where natural soil will not meet compaction requirements. The temporary fire department access roadway shall be constructed as to allow fire department personnel access to the entire perimeter of the entire construction site from their public roadway. Reference SRFD IFC 503.14.
18. The contractor shall provide As-Builts in accordance with section 105.15 of the SRPMIC Supplement to MAG Specifications.

Water, Sewer and Storm Drain Notes:

1. Only Community Public Works Department personnel shall operate existing valves. The Community Public Works Department personnel will close existing valves, but will not guarantee a bone-dry shutdown. For existing water valve operation, the contractor shall contact SRPMIC Public Works Department with a minimum of three (3) working days' notice 480-362-5600 or e-mail to (pwcustomerservice@srpmic-nsn.gov).
2. Water lines shall not be hydrostatic tested for acceptance until all the underground utilities have been installed and backfilled and prior to placement of the finish surface material.
3. Sewer lines shall not be tested for acceptance until all the underground utilities have been installed and backfilled and prior to placement of the finish surface material.
4. The Community requires 100 percent of the entire installation to be tested by low pressure air test, deflection test (5%) for HDPE and PVC Pipe and Video Inspection (CCTV) as per MAG Spec. 611.3. Cost of repairs or corrections necessary to confirm to the testing requirements will be borne by the Contractor at no additional cost to the Community.
5. The Community requires 100 percent of the new manholes to be exfiltration (vacuum) and spark tested. Cost of repairs or corrections necessary to confirm to the testing requirements will be borne by the Contractor at no additional cost to the Community.
6. Storm drain drywell systems shall adhere to the Community's Drywell Program Requirements, Registration and Approval Process and SRPMIC Drywell Registration Form shall be submitted to EPNR. Storm Drain Drywells shall be installed per the approved Maxwell Plus Drainage System Detail manufactured by Torrent Resources.

Roads Notes:

1. Concrete curb contraction joint spacing shall be five (5) feet.
2. Class AA concrete shall be used for all valley gutters and utility adjustments and as specified on the plans.
3. Class A concrete shall be used for concrete structures, either reinforced or non-reinforced, for all curb, gutter, sidewalks, sidewalk ramps, and driveway and exposed structures except as may be specified otherwise.
4. Class B concrete may be used for thrust blocks, encasements, fill or over excavation, etc.
5. At least 48 hours prior to the installation of any permanent pavement markings, the Contractor shall be responsible for scheduling an on-site meeting with the Project Manager to review pavement layout markings. Approval and sign-off of pavement layout markings by Compliance must be obtained by the Contractor prior to the installations of any permanent pavement markings.

Public Works Approved Material List

Water Pipe:

4 inch through 12 inch diameter pipe shall be AWWA C150 ductile iron or AWWA C900 Polyvinyl Chloride (PVC) class 235.

16 inch and larger pipe shall be either AWWA C150 class 250 ductile iron or AWWA C905 Polyvinyl Chloride (PVC) class 200.

1” to 2” diameter pipe shall be MUNICIPEX pipe.

Water Pipe Fittings:

ROMAC Industries Alpha restraint coupling.

Fire Hydrant:

Waterous Pacer with APLHA base (5-1/4 inch) by American Flow control.

Water Meter:

1" or smaller-Sensus iPerl

2" or 3" meters-Sensus Omni T2

Water Meter Box and Lid:

Residential Water Meter Assembly DFW Plastics Inc., DFW-A2C-12-1 (22"x14"x12")

1” and 2” Water Meter Assembly DFW Plastics Inc., DFW 1730C-18-1 (17"x30"x18")

Water Sampling Station Station DFW Plastics Inc., DFW 37C-12-1 (17"x11"x12")

Gate Valves:

American Flow Control or SRPMIC approved equal.

Domestic/Landscape Services Backflow Preventer:

Watts, Wilkins, or SRPMIC approved equal per SRP-MIC Detail 4303.

Fire Protection Service Double Check Valve Backflow Prevention Assembly:

Watts or SRPMIC approved equal per SRPMIC Detail 4305.

Copperhead Tracer Wire:

Copperhead High Strength Tracer Wire Twelve (12) gauge Copper Clad Steel (part # 1230-HS-Blue color).

Copperhead Access Point Cobra Hydrant Flange Package two terminal (part # T2*FLPKG).

Copperhead Ground Rod (part # ANO-12).

Copperhead Snake Bite Locking Connectors (part # LSC1230C).

Copperhead Mainline-to-Service Connector (part # 3WB-01).

Marking Tape:

Detectable marking tape, minimum four (4) mil thick, three (3) inches wide, inert polyethylene plastic that is impervious to all know alkalis, acids, chemical reagents and solvents likely to be encountered in the soil. Tracer wire and marking tape shall be the APWA color code and utility legend printed with “Potable Water Line” (blue) and “Sewer Line” (green).

Sewer Pipe:

Polyvinylchloride (PVC) SDR 26.

Sewer Pipe Fittings:

SDR 26 PVC gassket solid coupling

SDR 26 PVC gasket joint wye

SDR 26 gasket eccentric reducer

Coating for Sanitary Manholes:

Sauereisen corrosion-clad polymer lining No. 210/F-120 manufactured by Sauereisen Cements, Pittsburgh, PA 15238.

Sewer Shield 150 topcoat with C120 calcium aluminate cement underlayment as manufactured by Environmental Coasting, Mesa, AZ 85207.

Ravem 405/405FS by Raven Lining Systems, Broken Arrow, OK 74012.

Insecticide Coating by Insecta Marketing, Inc.

Asphalt Concrete Mixes:

½" and ¾" MAG Marshall Mix

½" and ¾" EVAC Marshall Mix