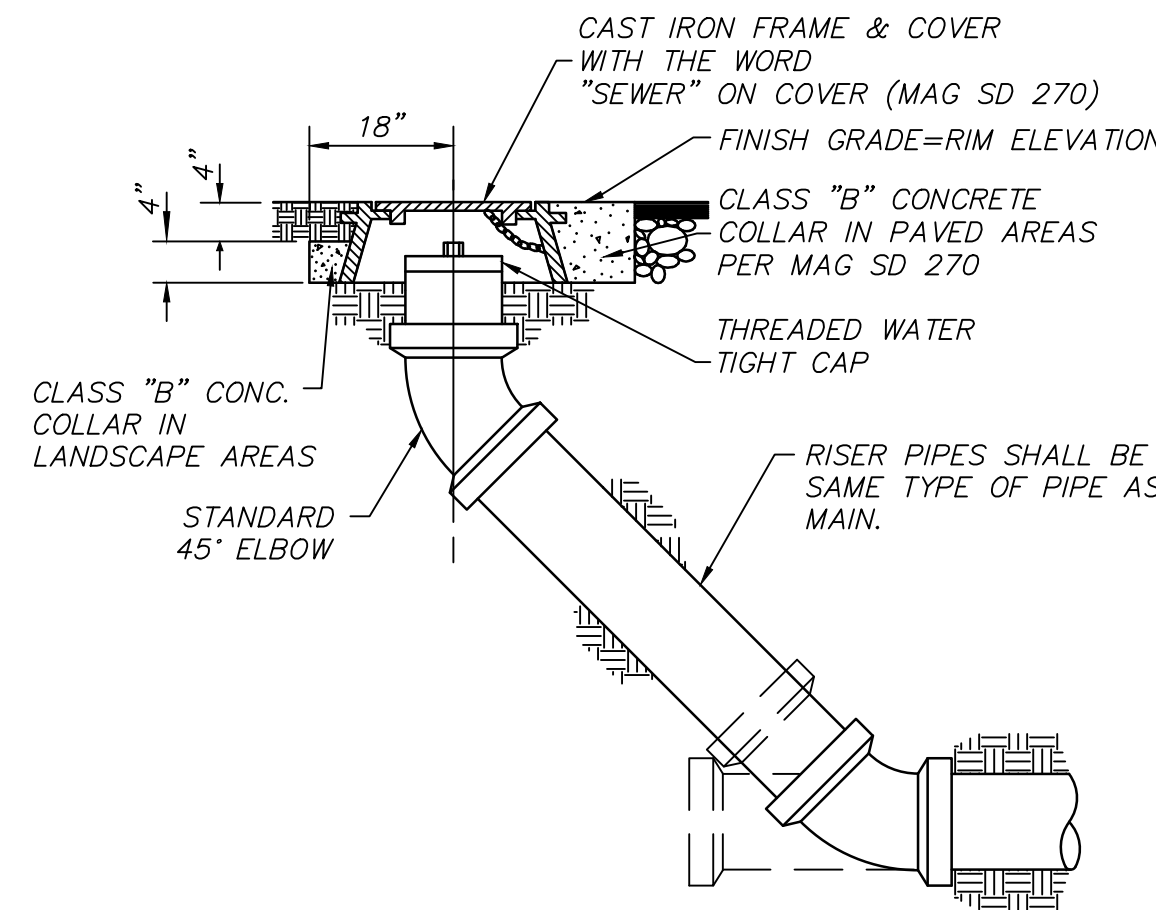


**ONSITE PRIVATE FIRE LINE
CONSTRUCTION NOTES:**

- 1 CONNECT TO BUILDING FIRE LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING AND/OR FIRE PROTECTION PLANS FOR EXACT LOCATION AND CONTINUATION.
- 2 INSTALL 4" P.V.C. (AWWA C-900, DR 18, PRESSURE CLASS 235) WATER LINE.
- 3 INSTALL 4"-90° BEND.
- 4 INSTALL AN 8" X 4" TAPPING SLEEVE AND 4" GATE VALVE, BOX AND COVER (MAG STANDARD DETAIL NO. 340, CITY OF PHOENIX STANDARD DETAIL NO. P1391, TYPE 'A' AND MAG SPECIFICATION SUBSECTION 630.4.2(A)(1). FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING FIRE LINE PRIOR TO THE START OF CONSTRUCTION. OF EXISTING FIRE LINE. NOTIFY DESIGN CIVIL ENGINEER OF ANY DISCREPANCIES FOR A POSSIBLE REDESIGN
- 5 INSTALL NEW DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY (CITY OF PHOENIX STANDARD DETAIL NO. P1352) ON EXISTING FIRE LINE. FIELD VERIFY LOCATION, ELEVATION AND MATERIAL OF EXISTING FIRE LINE PRIOR TO THE START OF CONSTRUCTION. SIZE OF DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY TO MATCH SIZE OF EXISTING FIRE LINE.

**PRIVATE DOMESTIC WATER
LINE CONSTRUCTION NOTES:**

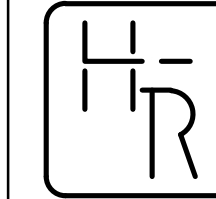
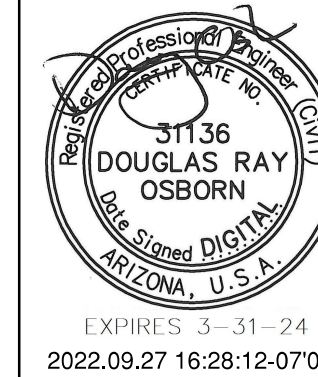
- 1 INSTALL 2.5" P.V.C. (SCHEDULE 40 WITH SOLVENT WELD JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND THRUST BLOCKS.
- 2 CONNECT TO BUILDING DOMESTIC WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 3 INSTALL 2.5" GATE VALVE WITH VALVE BOX AND COVER (CITY OF PHOENIX STANDARD DETAIL NO.'S P1391 AND P1391-1, TYPE "1" AND MAG STANDARD DETAIL NO. 270).
- 4 CONNECT TO EXISTING 3" WATER LINE WITH 3" X 3" X 2.5" TEE. POT HOLE AND FIELD VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO THE START OF CONSTRUCTION.
- 5 EXISTING GAS LINE TO REMAIN. PROTECT FROM DAMAGE. POT HOLE AND FIELD VERIFY LOCATION AND ELEVATION OF EXISTING GAS LINE PRIOR TO THE START OF CONSTRUCTION.



SEWER CLEANOUT
NOT TO SCALE

**DOMESTIC WATER LINE
THRUST BLOCK NOTE:**

ALL THRUST BLOCKS IN THE RIGHT-OF-WAY OR EASEMENT SHALL BE PER M.A.G. S.D. NO. 380. ALL THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL ONSITE DOMESTIC WATER LINE, THRUST BLOCKS SHALL BE INSTALLED AT ALL; CHANGES IN DIRECTION AS AT TEES AND BENDS, CHANGES IN SIZE AS AT REDUCERS, STOPS AS AT DEAD ENDS AND VALVES. THRUST BLOCK SIZING AND INSTALLATION SHALL FOLLOW IAPMO INSTALL STANDARD 8-92 OF THE ARIZONA STATE PLUMBING CODE, WHICH IS BASED ON THE 94 UPC WITH AMENDMENTS.



HESS - ROUNTREE, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
9831 SOUTH 51ST STREET, SUITE C110
PHOENIX, ARIZONA 85044 (480)496-0244

DES. **VR** DRN. **ANM** CKD **DRO** JOB NO. **2205-16**

**PRIVATE SANITARY SEWER
LINE CONSTRUCTION NOTES:**

- 1 INSTALL 6" P.V.C. (ASTM D3034, SDR-35) SEWER LINE. INSTALL AT A MINIMUM 0.50% SLOPE. NOTIFY DESIGN CIVIL ENGINEER PRIOR TO INSTALLATION OF NEW 6" SEWER LINE IF A MINIMUM SLOPE OF 0.50% IS NOT ACHIEVABLE PER FIELD VERIFIED CONDITIONS.
- 2 INSTALL SANITARY SEWER CLEANOUT (SEE DETAIL ON THIS SHEET).
- 3 CONNECT TO BUILDING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE BUILDING PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 4 CONNECT NEW 6" SEWER LINE TO EXISTING 6" SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING SEWER LINE PRIOR TO THE START OF CONSTRUCTION. NOTIFY DESIGN CIVIL ENGINEER OF ANY DISCREPANCIES FOR A POSSIBLE REDESIGN.
- 5 REMOVE EXISTING SANITARY SEWER LINE BETWEEN THE LIMITS SHOWN.
- 6 SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (M.A.G. SECTION 336 AND C.O.P. DETAIL NO. P-1200 TYPE B OR REPLACE IN KIND, WHICHEVER IS GREATER).
- 7 INSTALL A 6" TO 4" REDUCER.
- 8 INSTALL 4" P.V.C. (ASTM D3034, SDR-35) SEWER LINE. INSTALL AT A MINIMUM 1.04% SLOPE. NOTIFY DESIGN CIVIL ENGINEER PRIOR TO INSTALLATION OF NEW 4" SEWER LINE IF A MINIMUM SLOPE OF 1.04% IS NOT ACHIEVABLE PER FIELD VERIFIED CONDITIONS.
- 9 EXISTING SANITARY SEWER LINE TO REMAIN. PROTECT FROM DAMAGE.
- 10 REMOVE EXISTING SANITARY SEWER CLEANOUT.
- 11 EXISTING CONCRETE SINGLE CURB TO REMAIN. IF DAMAGED DURING SEWER LINE INSTALLATION, REPLACE PER MAG STANDARD DETAIL NO. 222, TYPE 'A'.
- 12 IF THE EXISTING ELECTRICAL LINE IS TO REMAIN PER ELECTRICAL DRAWINGS, PROTECT FROM DAMAGE.
- 13 SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE FIRE LANE PAVEMENT (7" THICK CONCRETE PAVEMENT (MAG CLASS AA) OR REPLACE IN KIND, WHICHEVER IS GREATER).

LEGEND

- Onsite Fire Lane Asphalt & Utilities
- Onsite Fire Lane Concrete

SELF-CERTIFIED BY:
JENIFER WESKALNIES AIA, LEED AP, NCARB 9-26-22
(INSERT NAME OF SELF-CERTIFIED PROFESSIONAL) DATE
• PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL.
• PLANS ARE COMPLETE.
• THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN COMPLIANCE WITH CITY OF PHOENIX BUILDING, CIVIL, SITE, AND ZONING CODES, ORDINANCES, AND ALL OTHER APPLICABLE LAWS.

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF BUCKEYE AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

NOTE:

ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

NOTE:

ALL EXISTING UTILITIES TO REMAIN AND BE PROTECTED FROM DAMAGE, UNLESS NOTED OTHERWISE. POT HOLE AND FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES CROSSING THE NEW UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. NOTIFY DESIGN CIVIL ENGINEER OF ANY DISCREPANCIES FOR A POSSIBLE REDESIGN.

SCALE: 1"=10'



**PRIVATE DOMESTIC WATER, PRIVATE SANITARY
SEWER AND PRIVATE FIRE LINE PLAN**

CARTWRIGHT ELEMENTARY SCHOOL DISTRICT
BUILDING ADDITION AND TRACK IMPROVEMENTS AT
FRANK BORMAN ELEMENTARY SCHOOL

DRAWING STATUS	SHEET	OF	
100% CD SET	1	1	WS-1
DATE:	09-27-22		