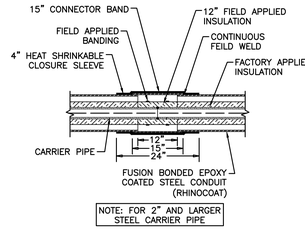
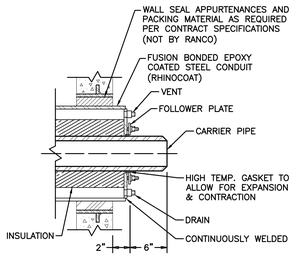
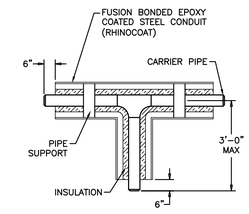


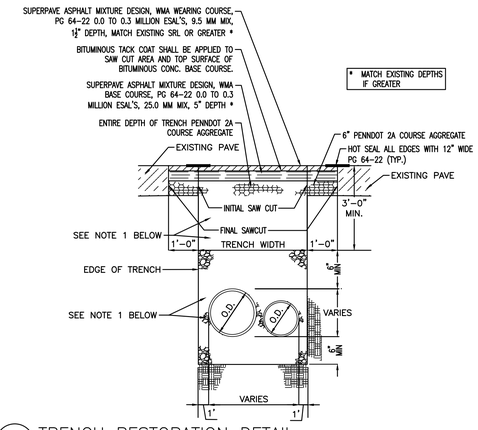
1 H-18 CONDUIT FIELD JOINT DETAIL
SCALE: N.T.S.



2 H-18 CONDUIT GLAND SEAL DETAIL
SCALE: N.T.S.



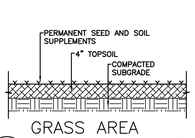
3 H-18 CONDUIT TEE DETAIL
SCALE: N.T.S.



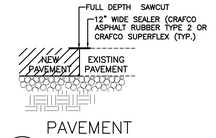
4 H-18 TRENCH RESTORATION DETAIL
SCALE: N.T.S.

NOTES:

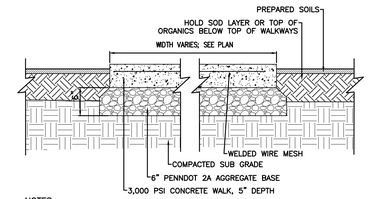
1. BEDDING MATERIALS FOR PIPE BEDDING AND BACKFILL (TO 1'-0" ABOVE THE PIPE) SHALL COMPLY WITH ANY OF THE FOLLOWING:
   a) PENNDOT 2A COURSE AGGREGATE
2. BACKFILL MATERIAL FOR TRENCHES OUTSIDE PAVEMENT AREA SHALL BE CLEAN
   a) ACCEPTABLE EARTH MATERIAL.
   b) BACKFILL MATERIAL FOR TRENCHES INSIDE PAVEMENT AREAS SHALL BE SELECT GRANULAR MATERIAL (2RC)
3. EXPOSED VERTICAL AND HORIZONTAL SURFACES HALL BE PREPARED AS PER PUB 408 SECT. 413.3(9).
4. MINIMUM 1' PAVEMENT CUTBACK, EXCAVATE OLD AND TEMPORARY MATERIAL RECOMPACT SUBBASE. TACK COAT ALL VERTICAL EDGES. INTALL ONLY BASE COURSE IN ONE DAY.
5. ALL PAVEMENT SHALL MEET THE REQUIREMENTS AS DETAILED PENNDOT PUB. 408 LATEST EDITION



5 H-18 GRASS AREA RESTORATION DETAIL
SCALE: N.T.S.

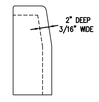


6 H-18 PAVEMENT SAWCUT DETAIL
SCALE: N.T.S.

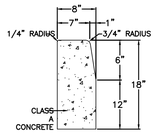


NOTES:
- CONTRACTOR SHALL CONFORM WITH LATEST PENNDOT 408 SPECIFICATION.
- CEMENT CONCRETE MIXTURE OF PORTLAND CEMENT, TYPE IA AIR-ENTRAINING CEMENT, FINE AGGREGATE, COURSE AGGREGATE, AND WATER AS SPECIFIED IN PUB. 408, SECTION 704, TABLE A

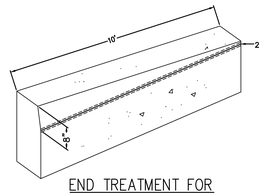
7 H-18 TYPICAL CONCRETE WALK
SCALE: N.T.S.



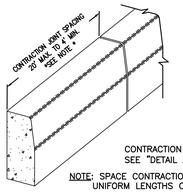
DETAIL A
CONTRACTION JOINT



TYPICAL CROSS SECTION



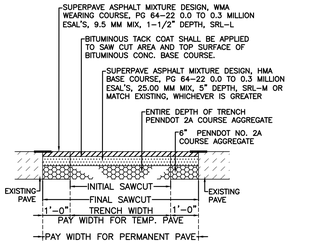
END TREATMENT FOR PROPOSED CONCRETE CURB
NOT TO SCALE



CONTRACTION JOINT SEE "DETAIL A"

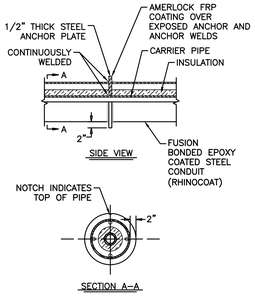
NOTE: SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS

PLAIN CONCRETE CURB
NOT TO SCALE

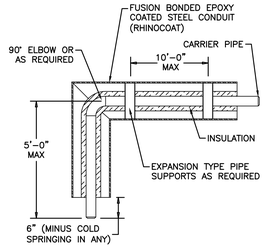


NOTES:
1. ALL PAVEMENT SHALL MEET THE REQUIREMENTS AS DETAILED IN PENNDOT PUBL. 408 LATEST EDITION.

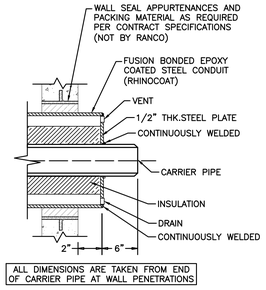
12 H-18 PAVEMENT RESTORATION DETAIL
SCALE: N.T.S.



8 H-18 CONDUIT ANCHOR DETAIL
SCALE: N.T.S.

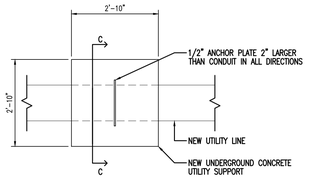


9 H-18 CONDUIT MITERED ELBOW DETAIL
SCALE: N.T.S.

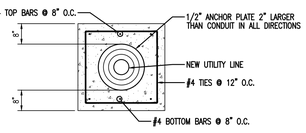


ALL DIMENSIONS ARE TAKEN FROM END OF CARRIER PIPE AT WALL PENETRATIONS

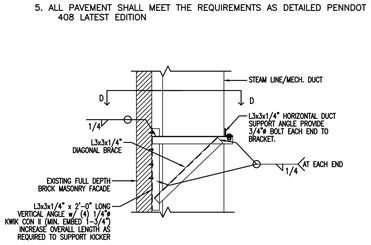
10 H-18 CONDUIT END SEAL DETAIL
SCALE: N.T.S.



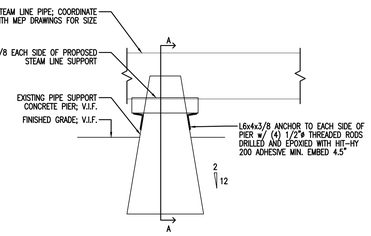
TYPICAL SECTION AT NEW UNDERGROUND STEAM LINE SUPPORT PIER
13 H-18 SCALE: 1/2" = 1'-0"



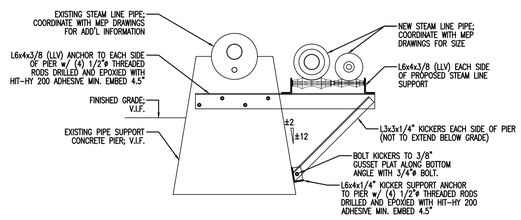
SECTION C-C: AT NEW UNDERGROUND STEAM LINE SUPPORT PIER
14 H-18 SCALE: 1/2" = 1'-0"



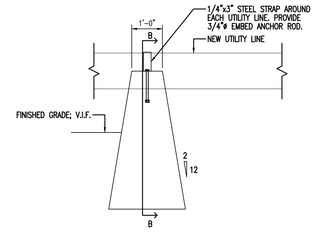
TYPICAL SECTION AT DUCT/PIPE SUPPORT BRACKET
15 H-18 SCALE: 1/2" = 1'-0"



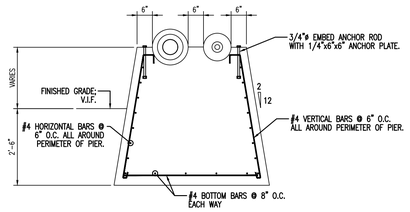
TYPICAL SECTION AT STEAM LINE SUPPORT PIER
16 H-18 SCALE: 1/2" = 1'-0"



SECTION A-A: STEAM LINE SUPPORT PIER
17 H-18 SCALE: 1/2" = 1'-0"

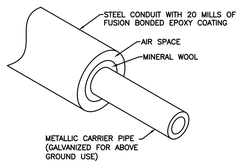


TYPICAL SECTION AT NEW STEAM LINE SUPPORT PIER
18 H-18 SCALE: 1/2" = 1'-0"



SECTION B-B: NEW STEAM LINE SUPPORT PIER
19 H-18 SCALE: 1/2" = 1'-0"

STRUCTURAL GENERAL NOTES:
1. ALL EXTERIOR STEEL SHALL BE HOT-DIPPED GALVANIZED.
2. ALL HARDWARE SHALL BE GALVANIZED.
3. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI
4. ALL REINFORCING STEEL SHALL BE 60 KSI.
5. COORDINATE WITH THE GENERAL STRUCTURAL NOTES FOR ANY ADDITIONAL INFORMATION.



PIPING NOTES:

STEAM PIPING
a. 6" STD WTA 53B ERW DOM. STEEL X 2" MINERAL WOOL X14" 10GA 20 MIL FUSION BONDED EPOXY COATED CONDUIT (40' LENGTHS)
b. 3" STD WTA 53B ERW DOM. STEEL X 2" MINERAL WOOL X10" 10GA 20 MIL FUSION BONDED EPOXY COATED CONDUIT (40' LENGTHS)
c. 2" STD WTA 53B ERW DOM. STEEL X 2" MINERAL WOOL X8" 10GA 20 MIL FUSION BONDED EPOXY COATED CONDUIT (40' LENGTHS)

CONDENSATE PIPING
a. 3" XS A53B ERW DOM. STEEL X 1" MINERAL WOOL X8" 10GA 20 MIL FUSION BONDED EPOXY COATED CONDUIT (40' LENGTHS)
b. 2" XS A53B ERW DOM. STEEL X 1" MINERAL WOOL X6" 10GA 20 MIL FUSION BONDED EPOXY COATED CONDUIT (40' LENGTHS)

19 H-18 STEAM AND CONDENSATE PIPING DETAIL
SCALE: N.T.S.

REBID SUBMISSION
FEBRUARY 26, 2024

RECORD REVISIONS

RICHARD SZATKOWSKI
ENGINEER
No. 044441-E
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER

02-26-2024
SIGNATURE DATE

ARRIS ENGINEERING GROUP, LTD.
667 SOUTH RIVER STREET
PLAINS, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF GENERAL SERVICES
HARRISBURG, PENNSYLVANIA

D.G.S. PROJECT No.
C-0304-0015 PHASE 2

ELIZABETHTOWN TRAINING ACADEMY - RENOVATE BOILER PLANT AND DOMESTIC / FIRE PROTECTION PIPING
DEPARTMENT of CORRECTIONS
ELIZABETHTOWN, LANCASTER COUNTY, PA

SITE STEAM & CONDENSATE PIPING DETAILS

VERIFY SCALE
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 — 1
IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.

DRAWN BY	DATE	DRAWING No.
D NEVEL	FEB 2023	H-18
CHECKED BY	SCALE	
R SZATKOWSKI	AS NOTED	

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