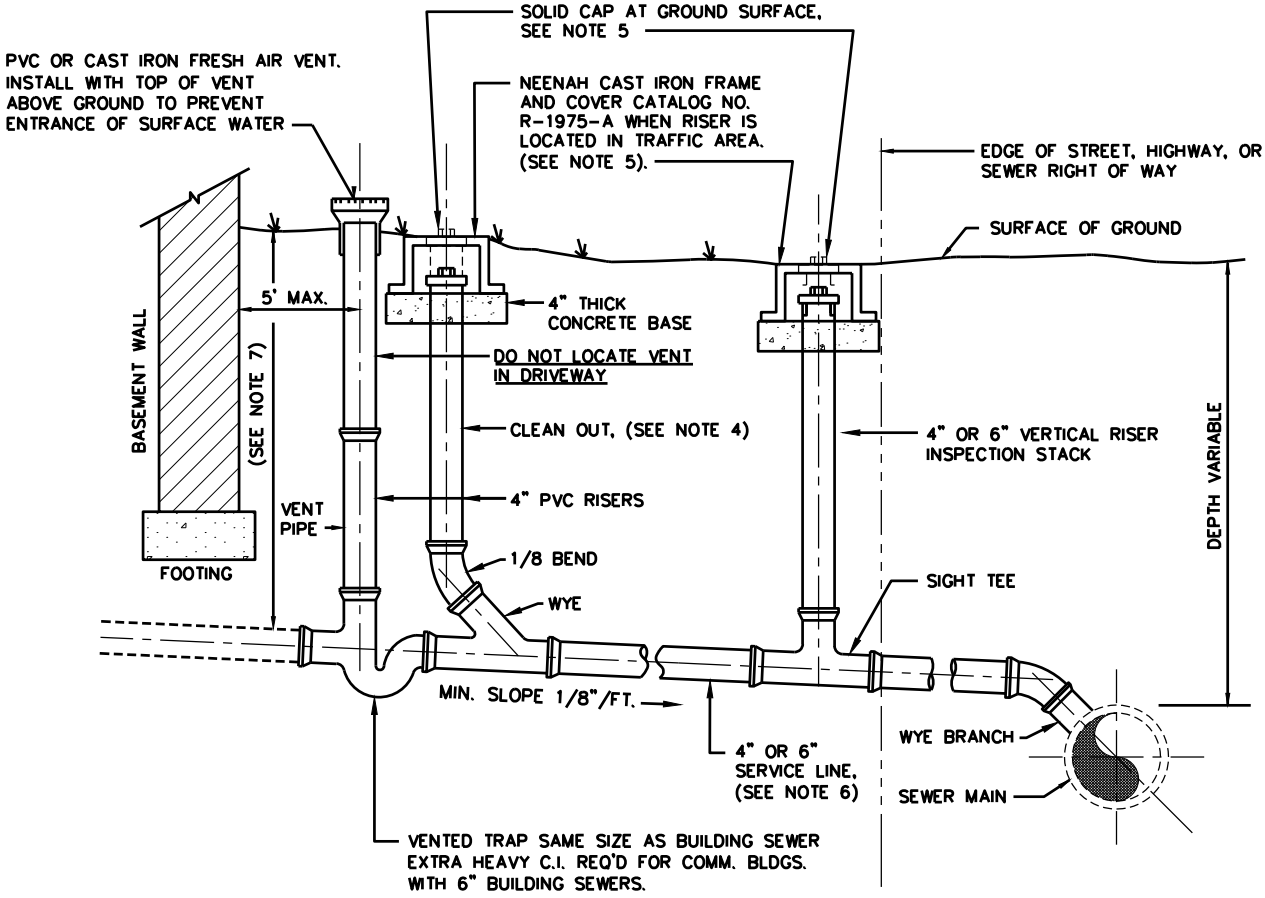
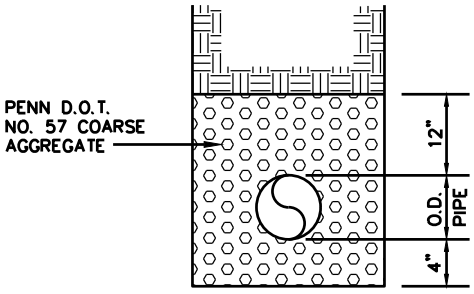




TRENCH SECTION

NOTES:

1. THE ENTIRE INSTALLATION MUST BE INSPECTED AND APPROVED BY THE ALLEGHENY COUNTY COUNTY HEALTH DEPARTMENT. CONNECTIONS TO THE PUBLIC SEWER MAIN MUST BE INSPECTED BY HARRISON TOWNSHIP.
2. ALL MATERIALS MUST BE INSTALLED IN ACCORDANCE WITH THE ALLEGHENY COUNTY PLUMBING CODE AND HARRISON TOWNSHIP STANDARDS AND SPECIFICATIONS.
3. BEFORE WORK IS STARTED A PLAN MUST BE FILED WITH THE ALLEGHENY COUNTY HEALTH DEPT. PLUMBING DIVISION AND AN APPLICATION MUST BE FILED WITH HARRISON TOWNSHIP.
4. CLEAN OUTS SHALL BE INSTALLED AT 50' MAXIMUM INTERVALS FOR 4" LINES OR 100' MAXIMUM INTERVALS FOR 6" LINES AND AT CHANGES OF DIRECTION GREATER THAN 45°.
5. WHEN CLEANOUT IS LOCATED IN VEHICULAR TRAFFIC AREA PROVIDE CAST IRON FRAME AND COVER AND CONCRETE BASE.
6. ALL PIPING AND FITTINGS SHALL BE SDR 35 PVC OR SCH. 40 PVC OR SCH. 40 ABS OR CAST IRON SOIL PIPE EXTRA HEAVY AND SERVICE WEIGHT.
7. THIS DETAIL (EXHIBIT I) IS APPLICABLE TO NEW BUILDING CONSTRUCTION WHERE LATERAL IS LESS THAN 6' DEPTH AND CONNECTIONS TO ALL EXISTING BUILDINGS.
8. ANY LINES INSTALLED IMPROPERLY OR COVERED WITHOUT INSPECTION MUST BE REMOVED OR UNCOVERED AT THE APPLICANTS EXPENSE.

EXHIBIT I
SD-01

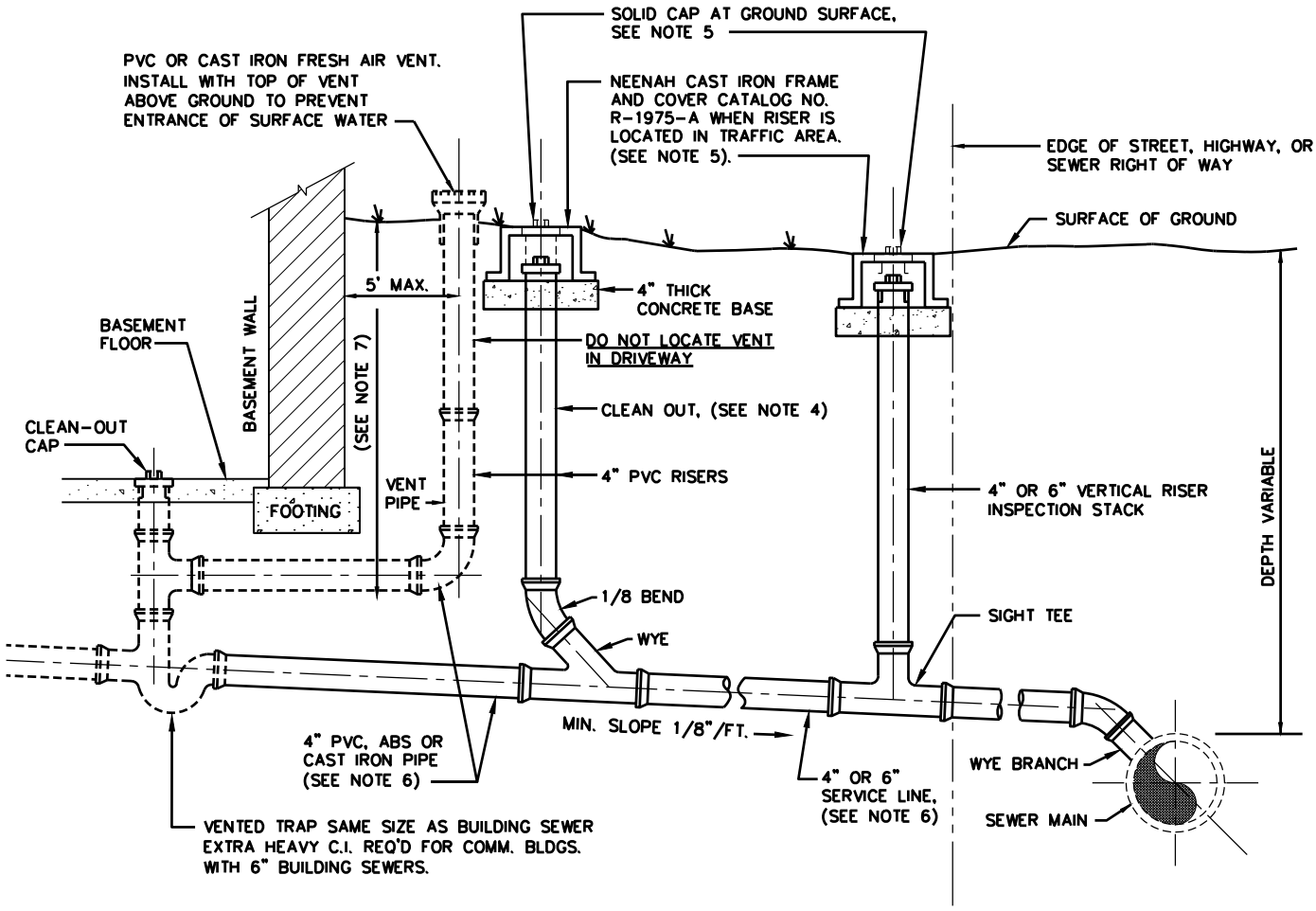
HARRISON TOWNSHIP

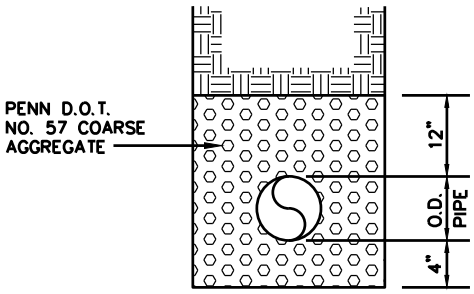
SANITARY SEWER LATERAL CONNECTION

NIRA Consulting Engineers, Inc.

OCTOBER, 2004

Hartwp SD-01.dwg





TRENCH SECTION

NOTES:

1. THE ENTIRE INSTALLATION MUST BE INSPECTED AND APPROVED BY THE ALLEGHENY COUNTY COUNTY HEALTH DEPARTMENT. CONNECTIONS TO THE PUBLIC SEWER MAIN MUST BE INSPECTED BY HARRISON TOWNSHIP.
2. ALL MATERIALS MUST BE INSTALLED IN ACCORDANCE WITH THE ALLEGHENY COUNTY PLUMBING CODE AND HARRISON TOWNSHIP STANDARDS AND SPECIFICATIONS.
3. BEFORE WORK IS STARTED A PLAN MUST BE FILED WITH THE ALLEGHENY COUNTY HEALTH DEPT. PLUMBING DIVISION AND AN APPLICATION MUST BE FILED WITH HARRISON TOWNSHIP.
4. CLEAN OUTS SHALL BE INSTALLED AT 50' MAXIMUM INTERVALS FOR 4" LINES OR 100' MAXIMUM INTERVALS FOR 6" LINES AND AT CHANGES OF DIRECTION GREATER THAN 45°.
5. WHEN CLEANOUT IS LOCATED IN VEHICULAR TRAFFIC AREA PROVIDE CAST IRON FRAME AND COVER AND CONCRETE BASE.
6. ALL PIPING AND FITTINGS SHALL BE SDR 35 PVC OR SCH. 40 PVC OR SCH. 40 ABS OR CAST IRON SOIL PIPE EXTRA HEAVY AND SERVICE WEIGHT.
7. THIS DETAIL (EXHIBIT I-A) IS APPLICABLE TO NEW BUILDING CONSTRUCTION WHERE LATERAL IS GREATER THAN 6' DEPTH.
8. ANY LINES INSTALLED IMPROPERLY OR COVERED WITHOUT INSPECTION MUST BE REMOVED OR UNCOVERED AT THE APPLICANTS EXPENSE.

EXHIBIT I-A
SD-01A

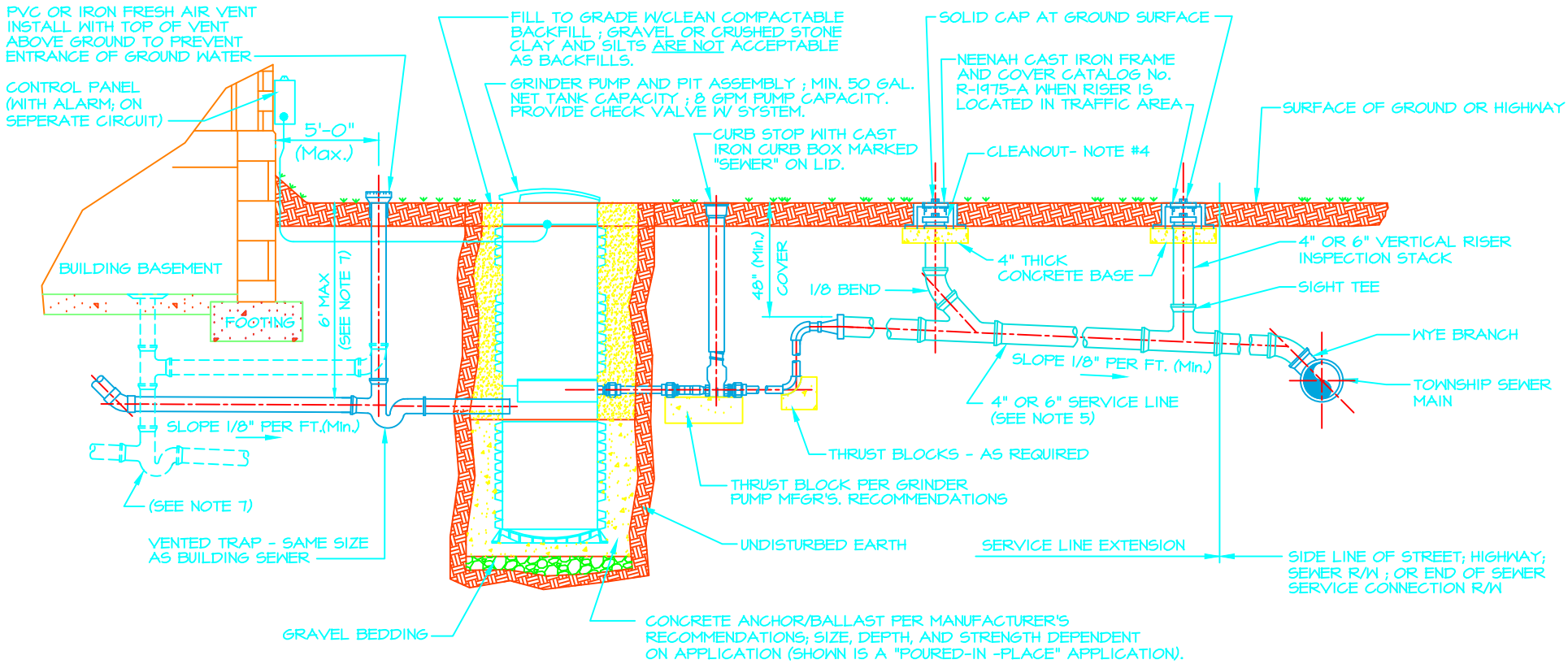
HARRISON TOWNSHIP

SANITARY SEWER LATERAL CONNECTION

NIRA Consulting Engineers, Inc.

OCTOBER, 2004

Hartwp SD-01A.dwg



NOTES:

1. THE ENTIRE INSTALLATION MUST BE INSPECTED AND APPROVED BY THE ALLEGHENY COUNTY HEALTH DEPARTMENT PLUMBING DIVISION. CONNECTIONS TO THE PUBLIC SEWER MAINS MUST BE INSPECTED BY HARRISON TOWNSHIP PUBLIC WORKS DEPARTMENT.
2. THE GRAVITY SANITARY SEWER LATERAL CONNECTION MUST BE INSTALLED IN ACCORDANCE WITH THE HARRISON TOWNSHIP STANDARDS AND SPECIFICATIONS. SEE EXHIBITS 1 & 1-A.
3. BEFORE WORK IS STARTED, A PLAN MUST BE FILED WITH THE ALLEGHENY COUNTY HEALTH DEPARTMENT PLUMBING DIVISION AND AN APPLICATION MUST BE FILED WITH HARRISON TOWNSHIP.
4. CLEANOUTS SHALL BE INSTALLED ON GRAVITY LATERALS AT 50' MAXIMUM INTERVALS FOR 4" PIPE OR 100' MAXIMUM INTERVALS FOR 6" PIPE, AND AT CHANGES IN DIRECTIONS GREATER THAN 45°, AND WHEN DEPTH EXCEEDS 4'.
5. ALL GRAVITY PIPING & FITTINGS SHALL BE SDR 35 PVC OR SCH. 40 PVC, OR SCH. 40 ABS OR CAST IRON SOIL PIPE EXTRA HEAVY AND SERVICE WEIGHT.
   ALL PRESSURE PIPING & FITTINGS SHALL BE MIN. 1 1/4" AND PRESSURE RATED TO SYSTEM PRESSURE WITH A SAFETY FACTOR OF NOT LESS THAN 1.5 AND SHALL BE FIELD PRESSURE TESTED.
6. ANY LINES INSTALLED IMPROPERLY OR COVERED WITHOUT INSPECTION MUST BE REMOVED OR UNCOVERED AT THE APPLICANTS EXPENSE.
7. WHERE LATERAL IS GREATER THAN SIX (6) FEET IN DEPTH PROVIDE INTERIOR TRAP WITH OUTSIDE VENT AS INDICATED IN DASHED LINEWORK AS SHOWN ABOVE.

RESIDENTIAL GRINDER PUMP TO GRAVITY SANITARY MAIN

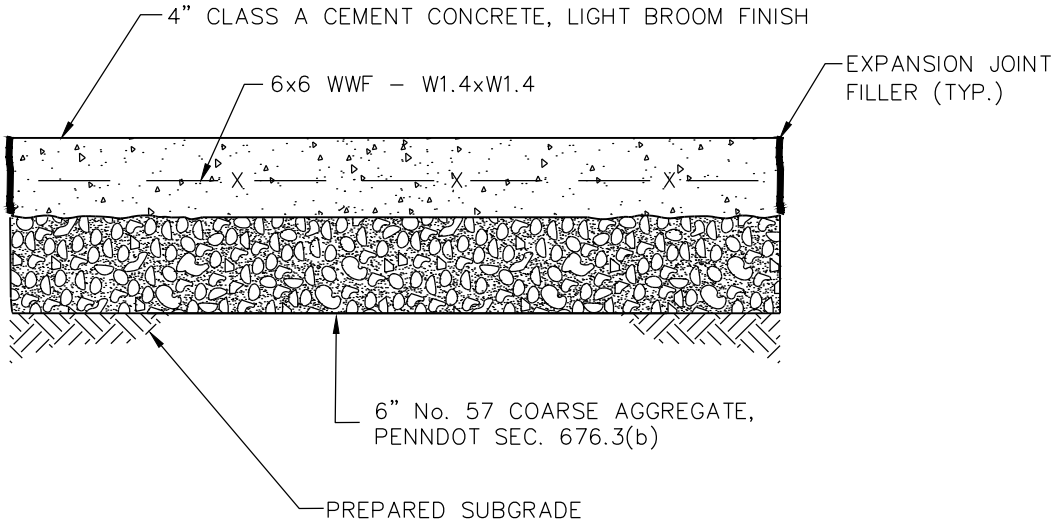
PIPE SIZES AND PUMP MODELS FOR EQUIPMENT DEPENDENT ON APPLICATION

SD-02

HARRISON TOWNSHIP

RESIDENTIAL GRINDER PUMP TO GRAVITY SANITARY MAIN

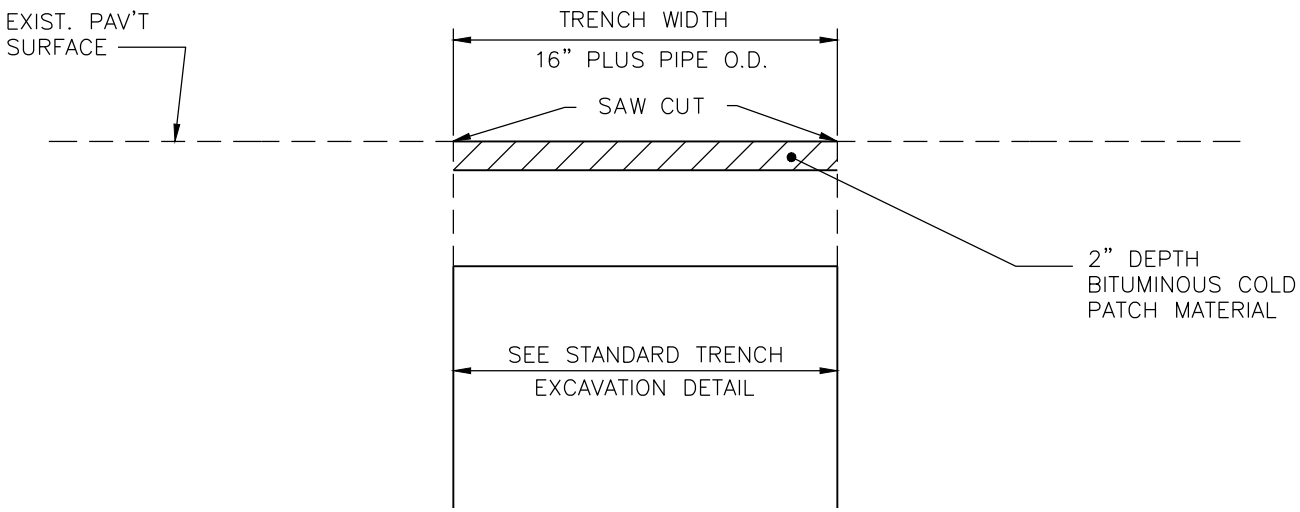
NIRA Consulting Engineers, Inc.
950 Fifth Avenue
Coraopolis, PA 15108



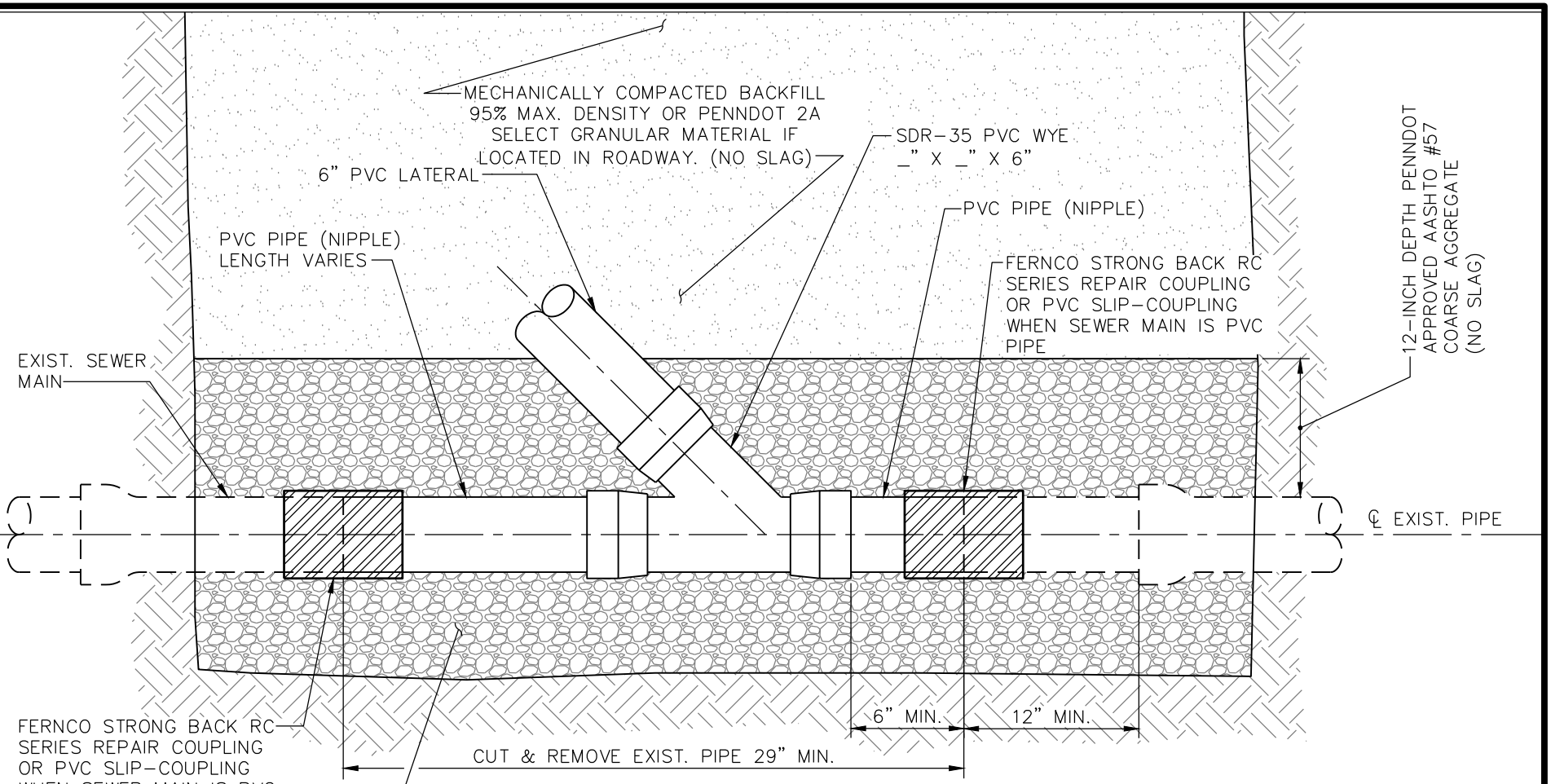
STANDARD SIDEWALK REPLACEMENT/INSTALLATION DETAIL

NOTES:
1. SIDEWALK WIDTH – 5'–0", REPLACE LENGTH JOINT TO JOINT
2. FORM OUTSIDE EDGES AND JOINTS WITH 1/4" RADIUS EDGING TOOL.
3. FORM TRANSVERSE DUMMY JOINTS @ 5 FOOT INTERVALS, APPROX. 1/8" WIDE AND AT LEAST 1 INCH DEEP
4. WHEN BUTTING INTO EXISTING CONCRETE, SAW CUT CONCRETE AND USE 1/2" PREMOLDED EXPANSION FILLER FULL DEPTH OF SIDEWALK.
5. EXPANSION JOINT @ 20'–0" MAX. SPACING. SEAL JOINTS WITH APPROVED CAULKING MATERIAL.
6. PROTECT WET/NEW CONCRETE FROM FREEZING
7. PROVIDE CROSS SLOPE TO MATCH EXISTING WALK OR 1/8"/FT.
8. OPTIONAL: "FIBERMESH" PARTICLE REINFORCEMENT
9. OPTIONAL: CONCRETE CURING COMPOUND

HARRISON TOWNSHIP	
STANDARD SIDEWALK REPLACEMENT/INSTALLATION DETAIL	
NIRA Consulting Engineers, Inc.	
DR. G.T.C.	DATE: OCTOBER, 2010
APPR: R.H.A., JR.	DWG FILE: HARTWP SD–03



TOWNSHIP OF HARRISON	
TEMPORARY TRENCH PAVEMENT REPLACEMENT DETAIL	
NIRA Consulting Engineers, Inc.	
DATE: DEC. 2014	FILE: HarTWP SD-04



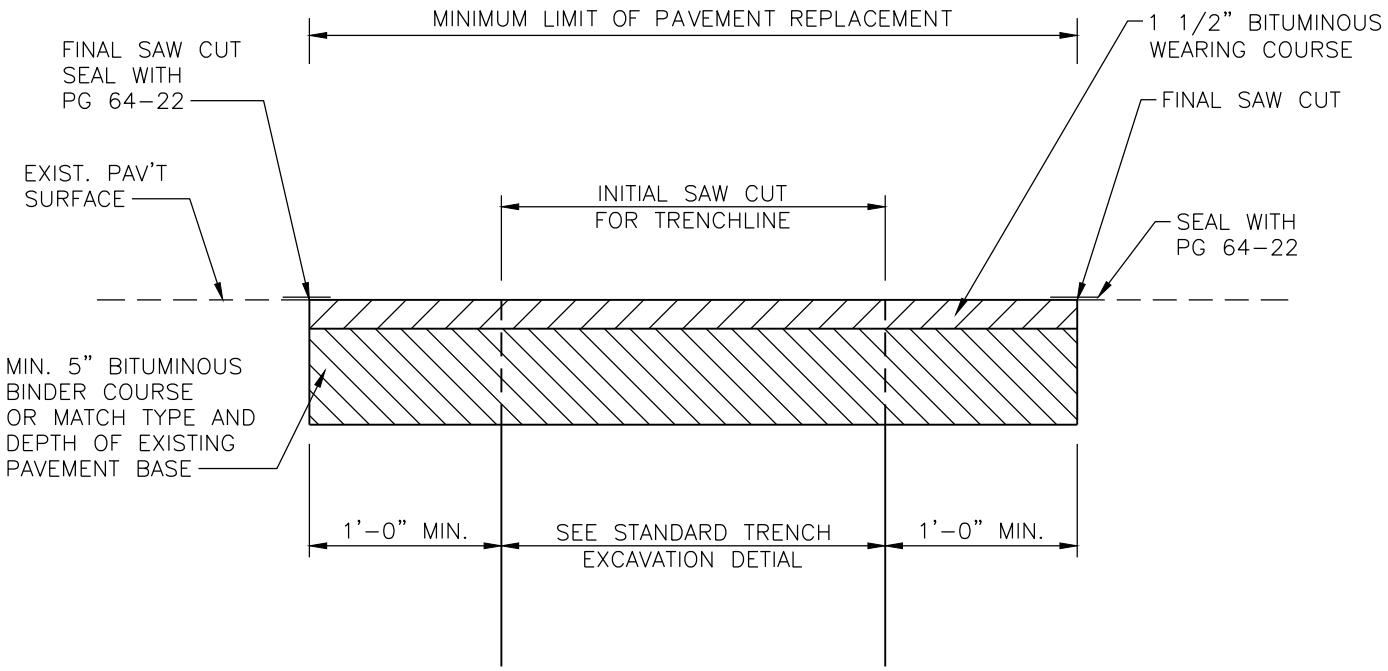
NOTES:

1. ALL NEW PIPE SHALL BE POLYVINYL CHLORIDE (PVC)
   4"-15" A.S.T.M. D 3034 (SDR-35)
   18-27" A.S.T.M. F 679 T-1 (SDR-35)
2. THE PROPOSED WYE IS SHOWN AT 90° FROM HORIZONTAL (12 O'CLOCK) FOR ILLUSTRATION PURPOSES ONLY. IT IS DESIRABLE TO HAVE THE NEW WYE INSTALLED AT 45° FROM HORIZONTAL. REFER TO THE "LATERAL INSTALLATION DETAIL".
3. THE PROPERTY OWNER IS RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS INCLUDING STREET OPENING AND COMPLETING ALL REQUIRED RESTORATION WORK.
4. THE PROPERTY OWNER SHALL PERFORM ALL REQUIRED EXCAVATION, SUPPLY ALL REQUIRED MATERIALS, AND NOTIFY OTHER UTILITY COMPANIES IN ACCORDANCE WITH PA. ACT 172.
5. THE INSTALLATION SHALL BE INSPECTED BY ALLEGHENY COUNTY HEALTH DEPARTMENT PRIOR TO BACKFILLING.

TYPICAL NEW SERVICE WYE/LATERAL CONNECTION TO EXISTING SEWER MAIN

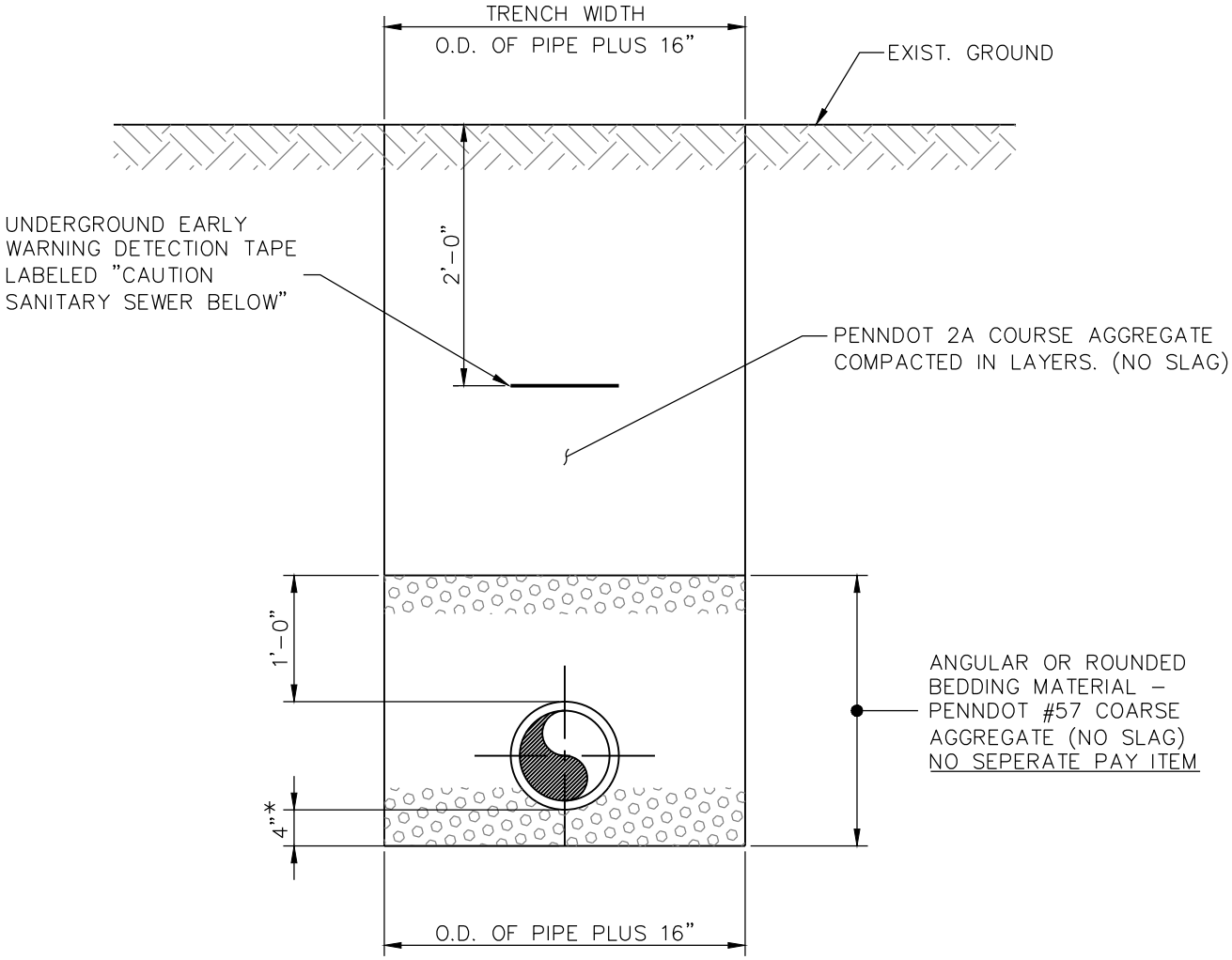
NIRA Consulting Engineers, Inc.

DWG FILE: Hartwp SD-05



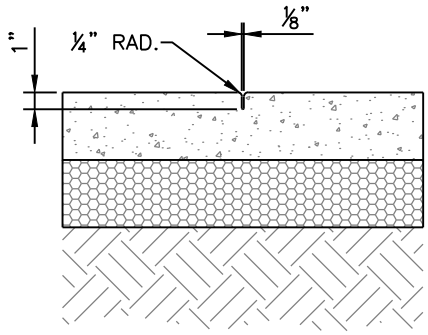
NOTES:
TWO (2) SEPARATE SAW CUTS REQUIRED
ONE (1) PRIOR TO TRENCH EXCAVATION
ONE (1) PRIOR TO FINAL PAVING

TOWNSHIP OF HARRISON	
PERMANENT TRENCH PAVEMENT REPLACEMENT DETAIL	
NIRA Consulting Engineers, Inc.	
DATE: DEC. 2014	FILE: Hartwp SD-06

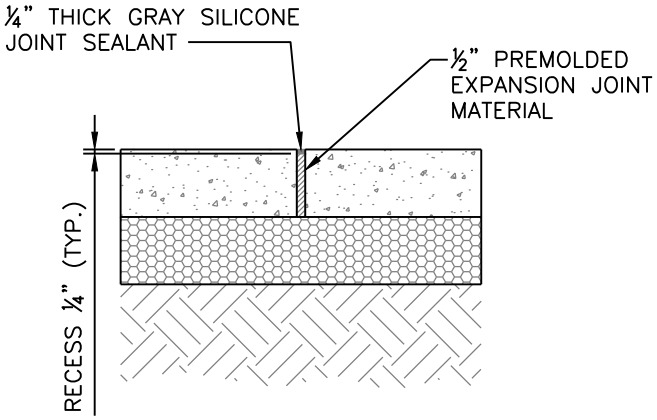


* = 6" OVERBREAK IN ROCK OR UNSUITABLE MATERIAL

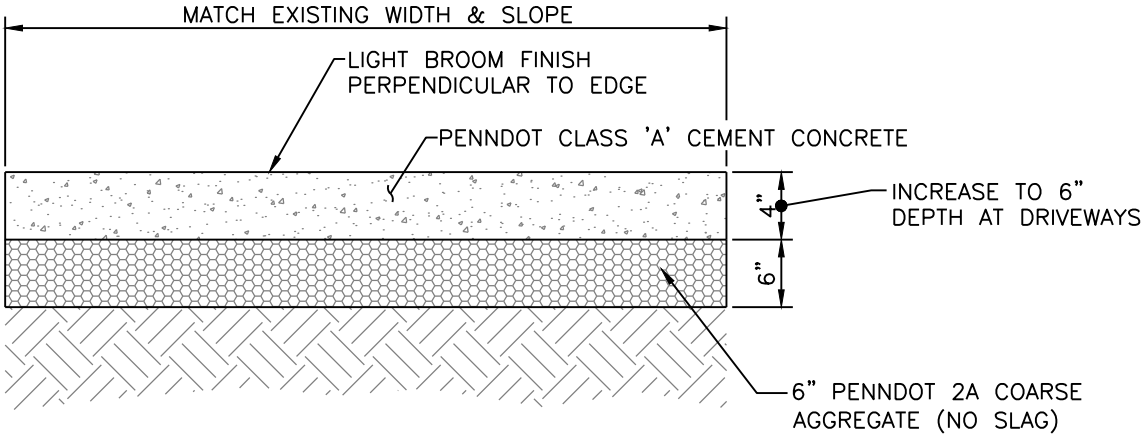
TOWNSHIP OF HARRISON	
STANDARD TRENCH EXCAVATION DETAIL	
NIRA Consulting Engineers, Inc.	
DATE: DEC. 2014	FILE: Hartwp SD-07



CONTROL JOINT
(FORMED AT 5' INTERVALS)



EXPANSION JOINT
(PLACE OPPOSITE EXPANSION JOINTS IN ADJACENT CURBS, BETWEEN THE SIDEWALK AND CURB, BETWEEN THE SIDEWALK AND RIGID STRUCTURES, AND AT END OF DAYS WORK.)



NOTES:

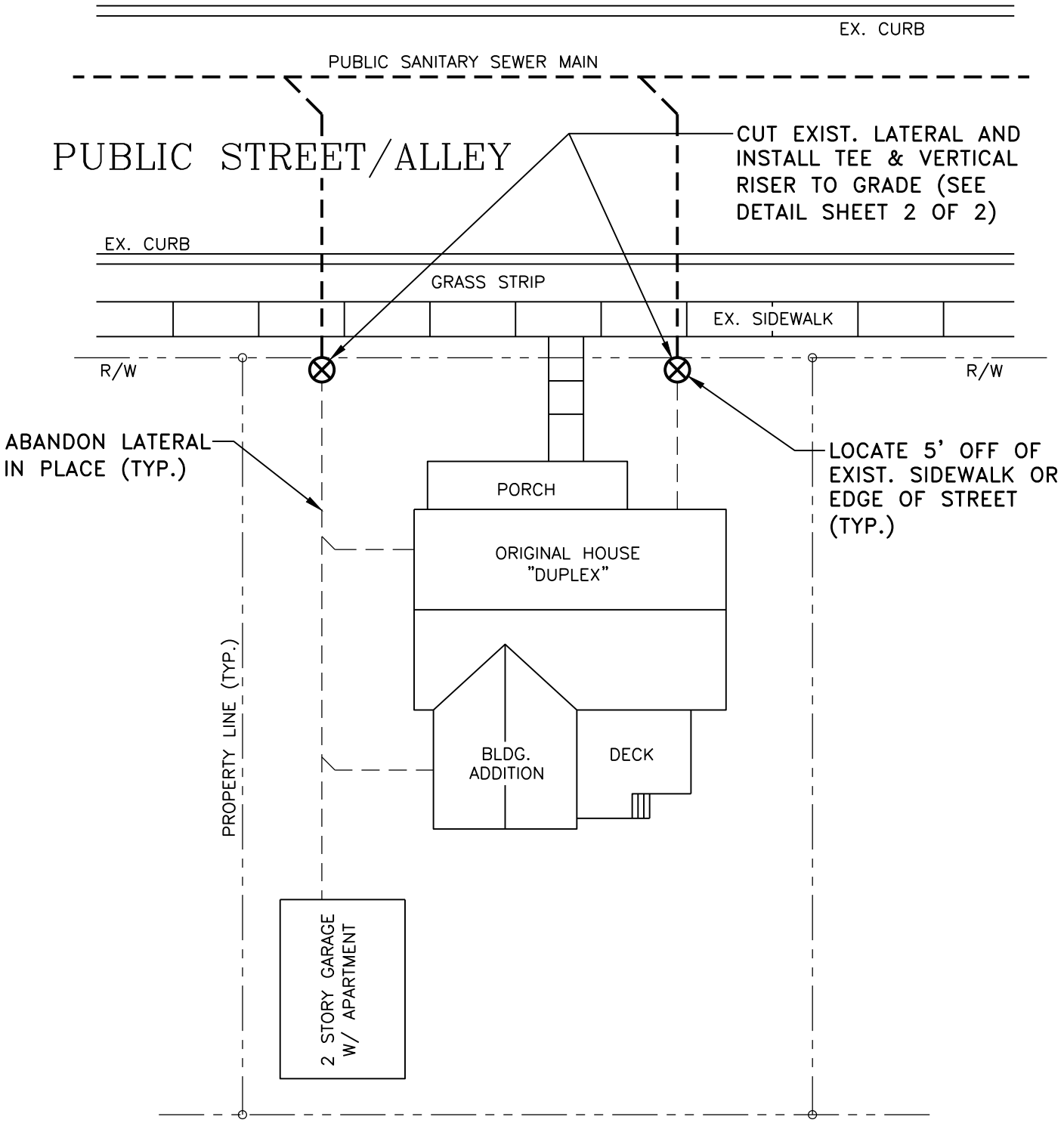
1. CLEAN JOINTS OF ALL SCALE, DIRT, CURING COMPOUND, AND OTHER FOREIGN MATERIAL WITH A MECHANIZED BRUSH PRIOR TO SEALING.

2. DO NOT REMOVE SIDE FORMS UNTIL AT LEAST 12 HOURS AFTER PLACING CONCRETE. AFTER REMOVAL OF FORMS, FILL MINOR HONEYCOMBED AREAS WITH MORTAR. AS DIRECTED, REMOVE AND REPLACE DEFECTIVE MAJOR HONEYCOMBED AREAS.

3. AFTER THE CONCRETE HAS CURED FOR AT LEAST 72 HOURS, BACKFILL SPACES ADJACENT TO THE SIDEWALK, USING ACCEPTABLE EMBANKMENT MATERIAL.

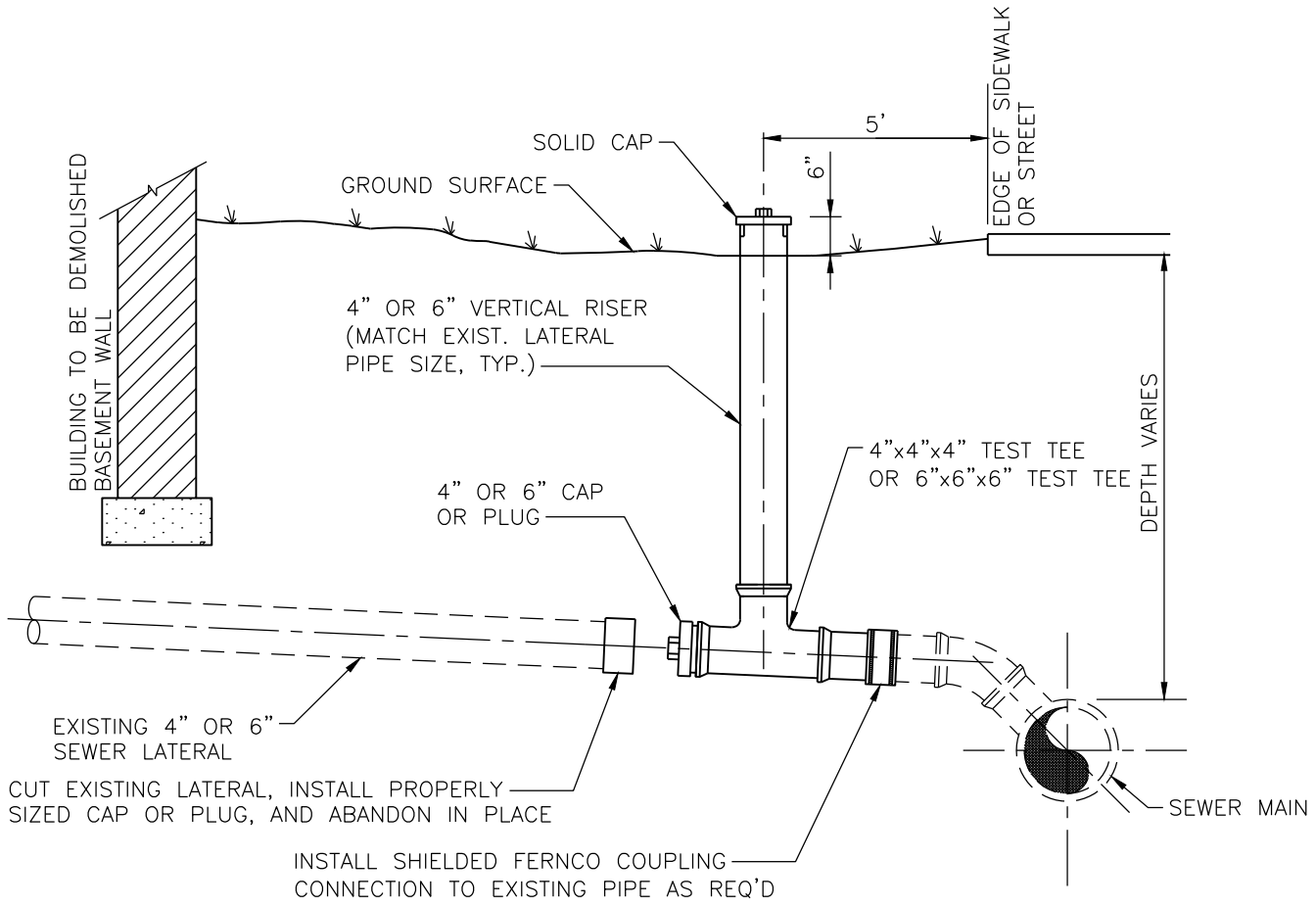
NIRA Consulting Engineers, Inc.	**CONCRETE SIDEWALK DETAIL**	DR. BY: CJR	DATE: OCTOBER, 2017
		CK. BY: RHA, JR.	SCALE: N.T.S.
	HARRISON TOWNSHIP	DWG #: SD-08	SHT #: 1 OF 1

HARTWP SD-08.DWG, 7/26/2018 11:09 AM, jbrunner



HARRISON TOWNSHIP	
LATERAL TERMINATION DETAIL 1 OF 2	
NIRA Consulting Engineers, Inc.	
DR. BY: CJR	DATE: 05-15-08
CK. BY: RHA, JR.	SCALE: N.T.S.

SEWER TERMINATION DETAILS.DWG, 7/26/2018 11:10 AM, jbrunner



NOTES:

1. THE NEW PIPE & COMPONENTS SHALL MATCH THE PIPE SIZE OF THE EXISTING SERVICE LATERAL.

2. THE LATERAL TERMINATION MUST BE INSPECTED AND APPROVED BY HARRISON TOWNSHIP. CONTACT RANDY MARTINKA, PUBLIC WORKS SUPERINTENDANT AT (724) 321-0991 TO COORDINATE THIS INSPECTION.

3. ALL PIPING & FITTINGS SHALL BE: PVC SDR 35; PVC SCH. 40; ABS SCH. 40; CAST IRON EXTRA HEAVY & SERVICE WEIGHT; OR APPROVED EQUAL.

HARRISON TOWNSHIP	
LATERAL TERMINATION DETAIL 2 OF 2	
NIRA Consulting Engineers, Inc.	
DR. BY: CJR	DATE: 04-16-13
CK. BY: RHA, JR.	SCALE: N.T.S.

SEWER TERMINATION DETAILS.DWG, 7/26/2018 11:10 AM, jbrunner