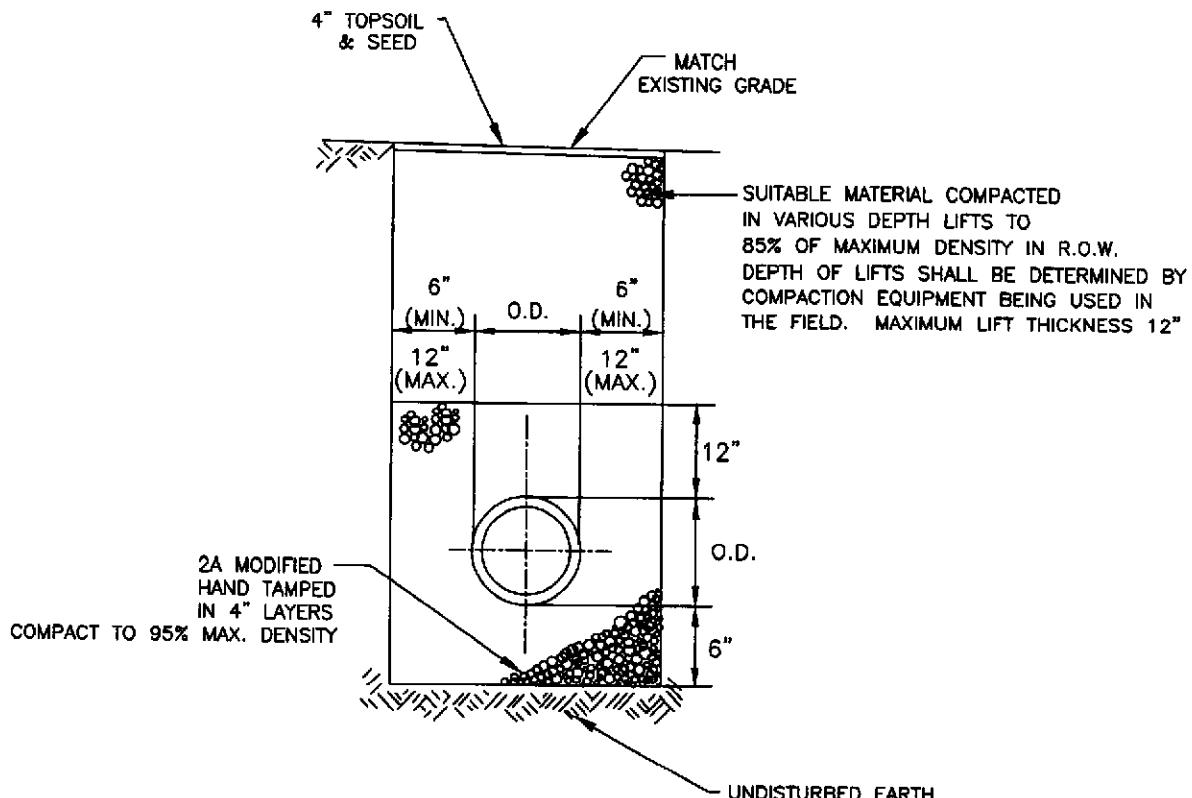
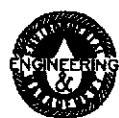


(FINAL GRADING AND SEEDING SHALL BE IN  
ACCORDANCE WITH SECTION 02485 OF THE SPECIFICATIONS)



NOTES:

- 1.) DETAIL FOR PIPE  
4" AND LARGER
- 2.) CONTRACTOR TO PROVIDE  
UNIFORM GRADE FROM  
EDGE OF EXISTING R-O-W



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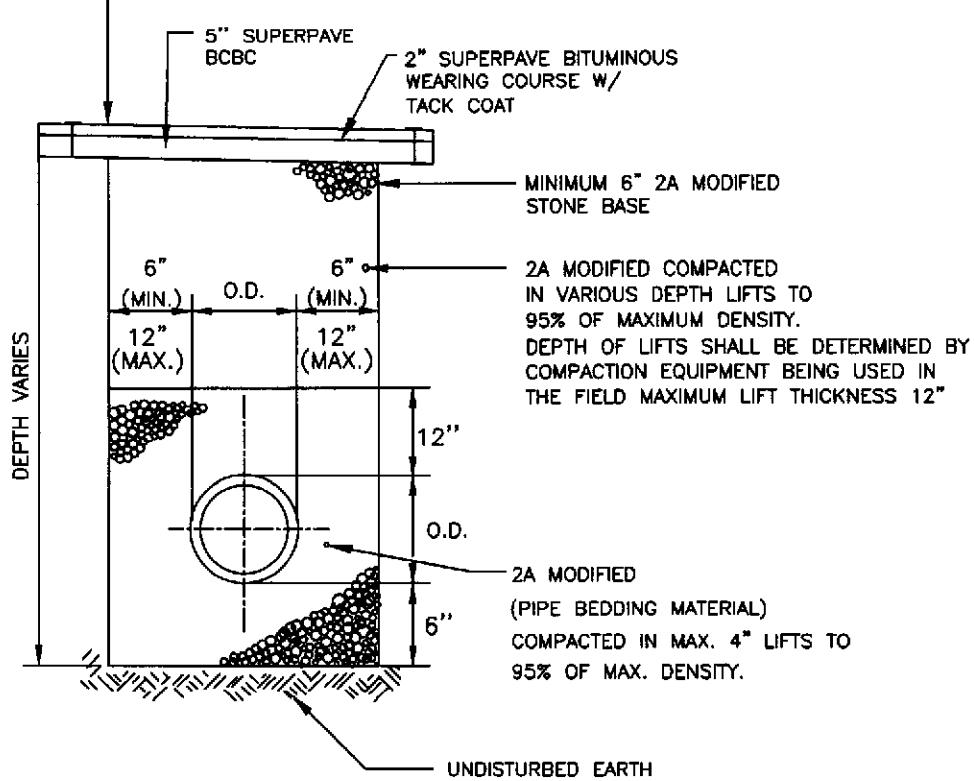
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
NON ROADWAY  
PERMANENT RESTORATION

DETAIL NO. 1

DATE: AUG 12, 2016

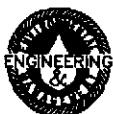
SCALE: N.T.S.

APPLY JOINT SEALANT - 4" WIDE  
CENTERED ON SAW CUT LOCATIONS



NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, FORM 408 LATEST EDITION.
2. CONTRACTOR TO PROVIDE UNIFORM GRADE FROM EDGE OF EXISTING PAVING.
3. ALL TRENCHES IN BOROUGH STREETS ARE TO BE CLOSED AT THE END OF EACH WORKDAY BY COMPLETION OF RESTORATION OR BY COVERING WITH A PLATE.
4. IF TEMPORARY RESTORATION IS PERMITTED ON BOROUGH STREETS, INSTALL 8" 2A MODIFIED AND 2" COLD PATCH IN LIEU OF BCBC AND SUPERPAVE.



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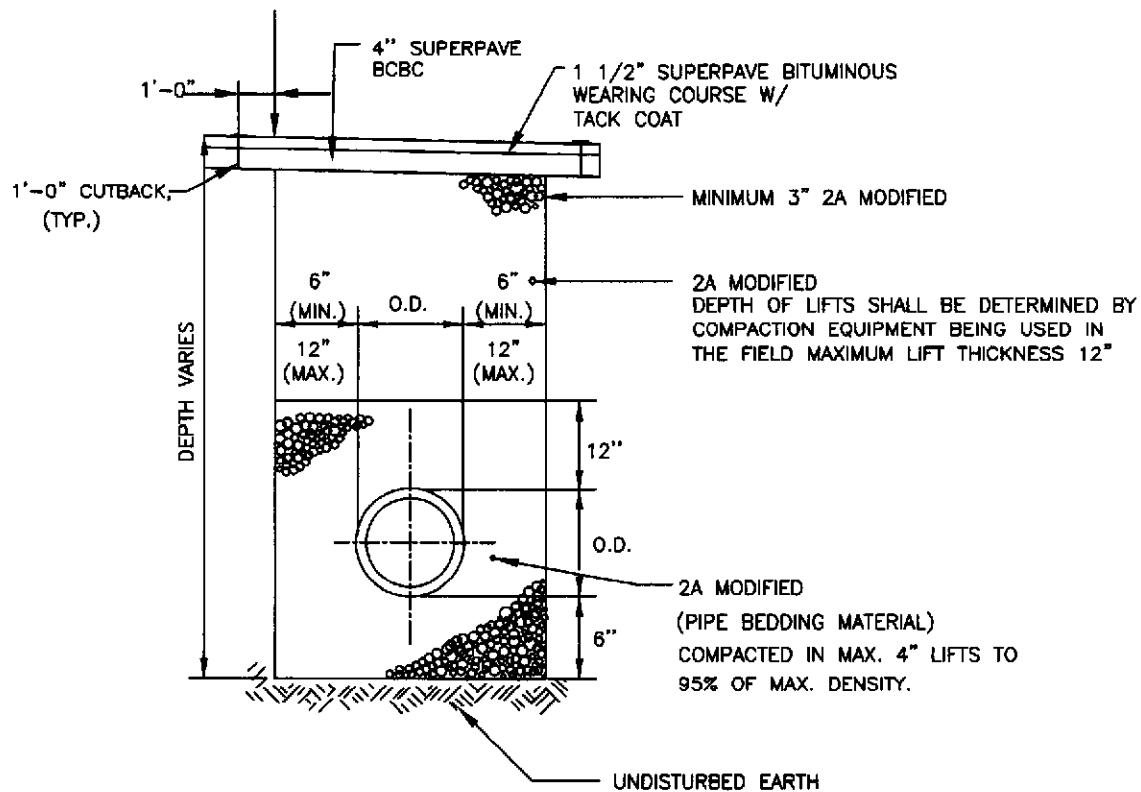
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PERMANENT RESTORATION  
IN BOROUGH STREETS

DETAIL NO. 2

DATE: AUG 12, 2016

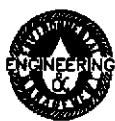
SCALE: N.T.S.

APPLY JOINT SEALANT - 4" WIDE  
CENTERED ON SAW CUT LOCATIONS



NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, FORM 408 LATEST EDITION.
2. CONTRACTOR TO PROVIDE UNIFORM GRADE FROM EDGE OF EXISTING PAVING.
3. ALL TRENCHES IN TOWNSHIP ROADS/ STREETS ARE TO BE CLOSED AT THE END OF EACH WORKDAY BY COMPLETION OF RESTORATION OR BY COVERING WITH A PLATE.



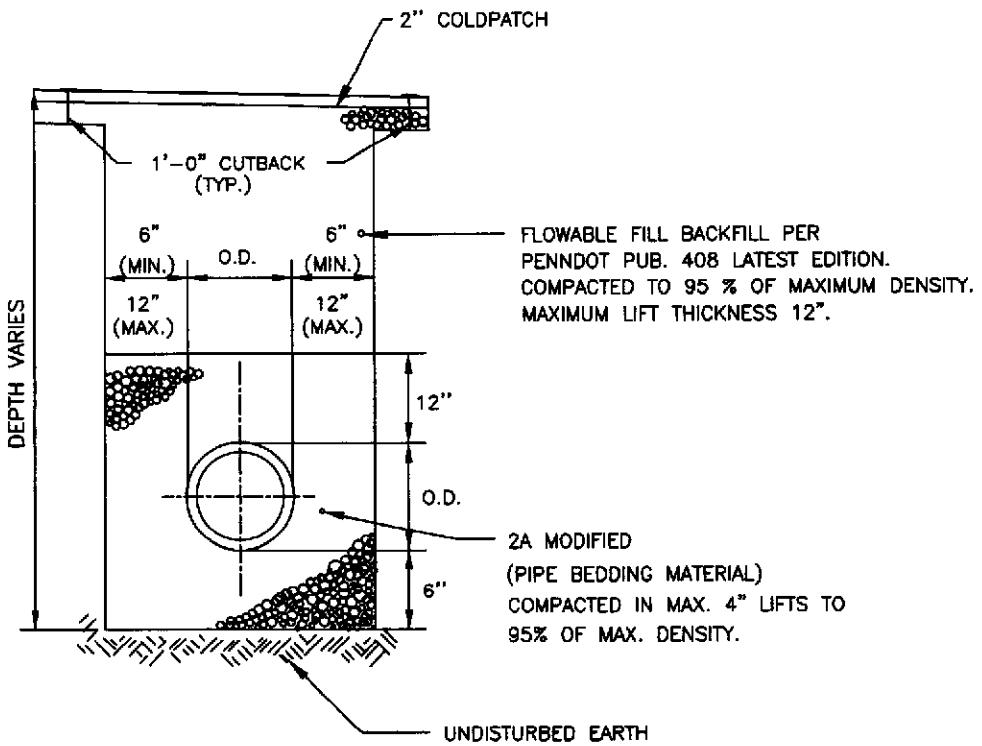
ENVIRONMENTAL ENGINEERING  
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PERMANENT RESTORATION  
IN TOWNSHIP ROADS

DETAIL NO. 2A

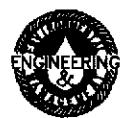
DATE: AUG 12, 2016

SCALE: N.T.S.



NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, FORM 408 LATEST EDITION AND RC STANDARDS AS REQUIRED BY PERMIT.
2. CONTRACTOR TO PROVIDE UNIFORM GRADE FROM EDGE OF EXISTING PAVING.
3. TEMPORARY PAVING TO REMAIN FOR 60 TO 90 DAYS.



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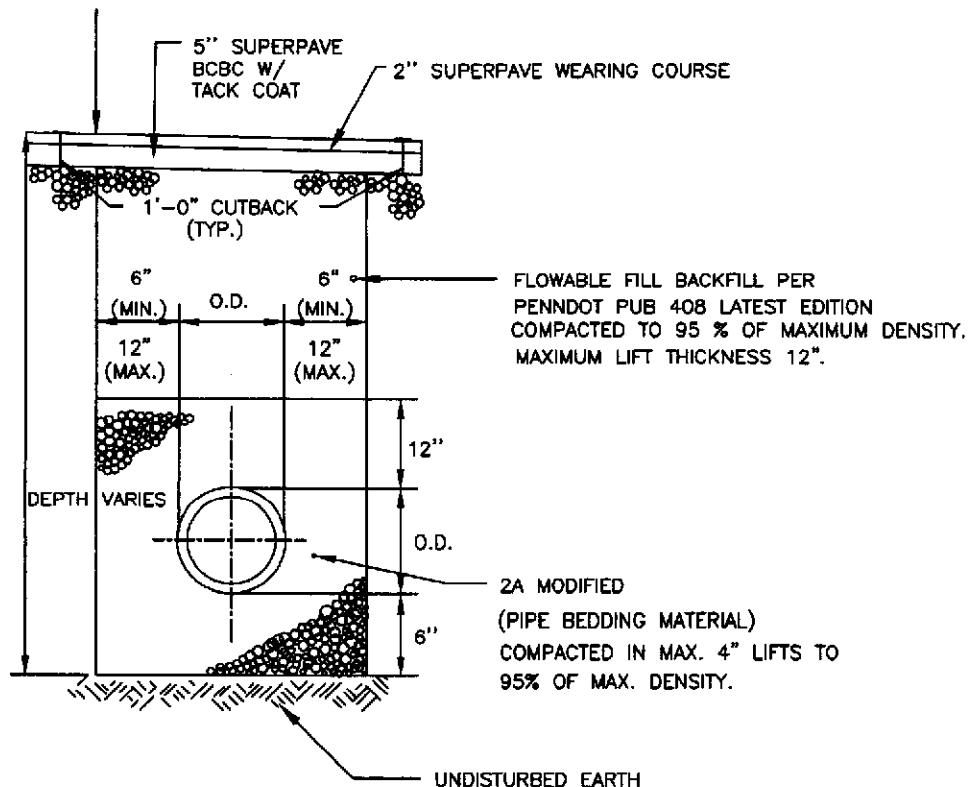
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
TEMPORARY RESTORATION  
STATE ROADS

DETAIL NO. 3

DATE: AUG 12, 2016

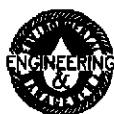
SCALE: N.T.S.

APPLY JOINT SEALANT - 4" WIDE  
CENTERED ON SAW CUT LOCATIONS



NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, FORM 408 LATEST EDITION AND RC STANDARDS AS REQUIRED BY PERMIT.
2. CONTRACTOR TO PROVIDE UNIFORM GRADE FROM EDGE OF EXISTING PAVING
3. ALL DIMENSIONS SHALL BE IN CONFORMANCE WITH PERMIT ISSUED FOR EACH SPECIFIC LOCATION



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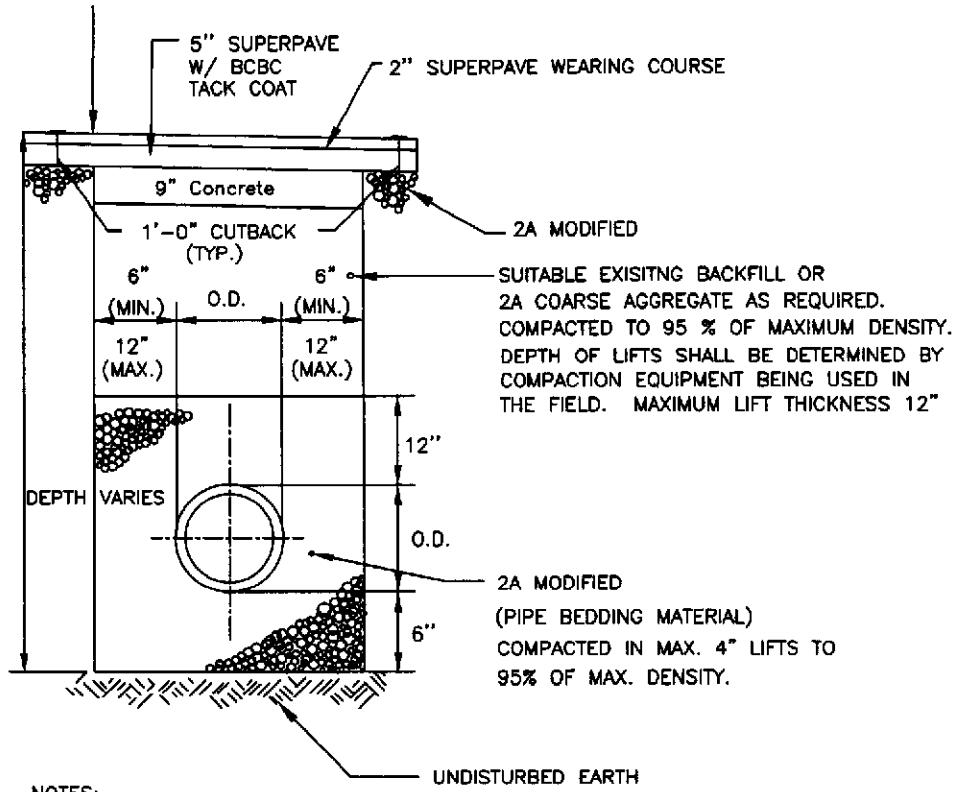
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PERMANENT RESTORATION  
BITUMINOUS STATE ROADS

DETAIL NO. 3A

DATE: AUG 12, 2016

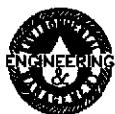
SCALE: N.T.S.

APPLY JOINT SEALANT - 4" WIDE  
CENTERED ON SAW CUT LOCATIONS



NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, FORM 408 LATEST EDITION AND RC STANDARDS AS REQUIRED BY PERMIT.
2. CONTRACTOR TO PROVIDE UNIFORM GRADE FROM EDGE OF EXISTING PAVING
3. DURASET CONCRETE SHALL SET WITHIN 4 HOURS.
4. ALL DIMENSIONS SHALL BE IN CONFORMANCE WITH PERMIT ISSUED FOR EACH SPECIFIC LOCATION.



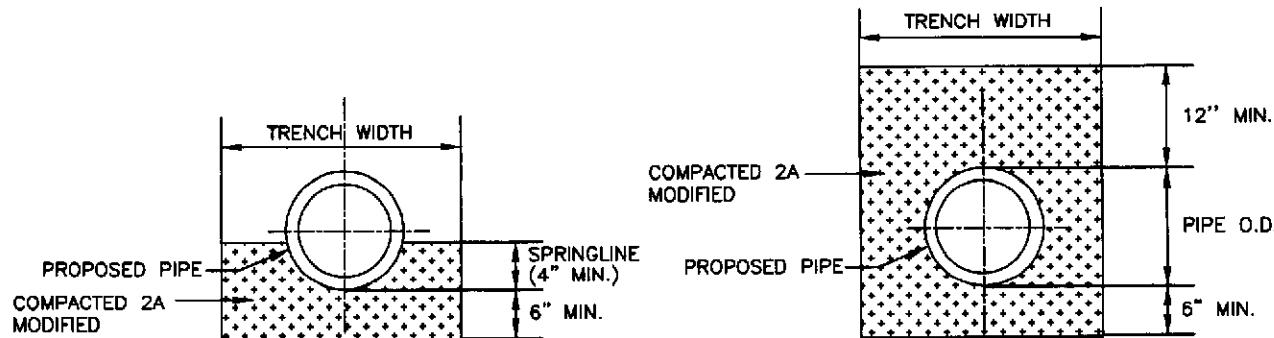
ENVIRONMENTAL ENGINEERING  
&  
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PERMANENT RESTORATION  
CONCRETE BASE STATE ROADS

DETAIL NO. 38

DATE: AUG 12, 2016

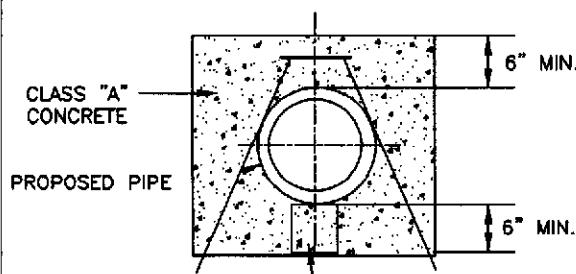
SCALE: N.T.S.



CRUSHED STONE CRADLE  
(MINIMUM FOR DUCTILE IRON PIPE)

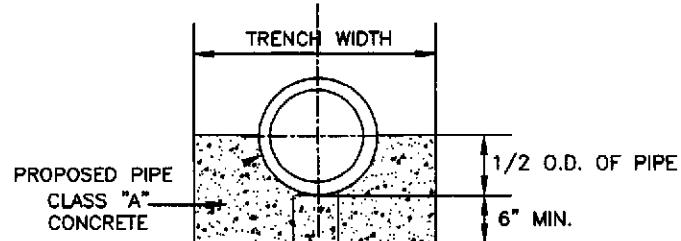
CRUSHED STONE ENCASEMENT  
(MIN. FOR PVC & CAST IRON PIPE)

SECURE PIPE USING NO.5 STEEL  
REINFORCING RODS WITH WIRE,  
SPACED AS REQUIRED TO PREVENT  
PIPE MOVEMENT



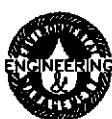
PROVIDE MASONRY SUPPORTS  
AS REQUIRED TO PREVENT  
PIPE DISPLACEMENT

CONCRETE ENCASEMENT DETAIL



PROVIDE MASONRY SUPPORTS  
AS REQUIRED TO PREVENT  
PIPE DISPLACEMENT

CONCRETE CRADLE



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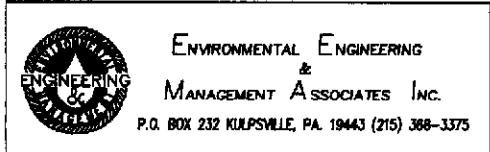
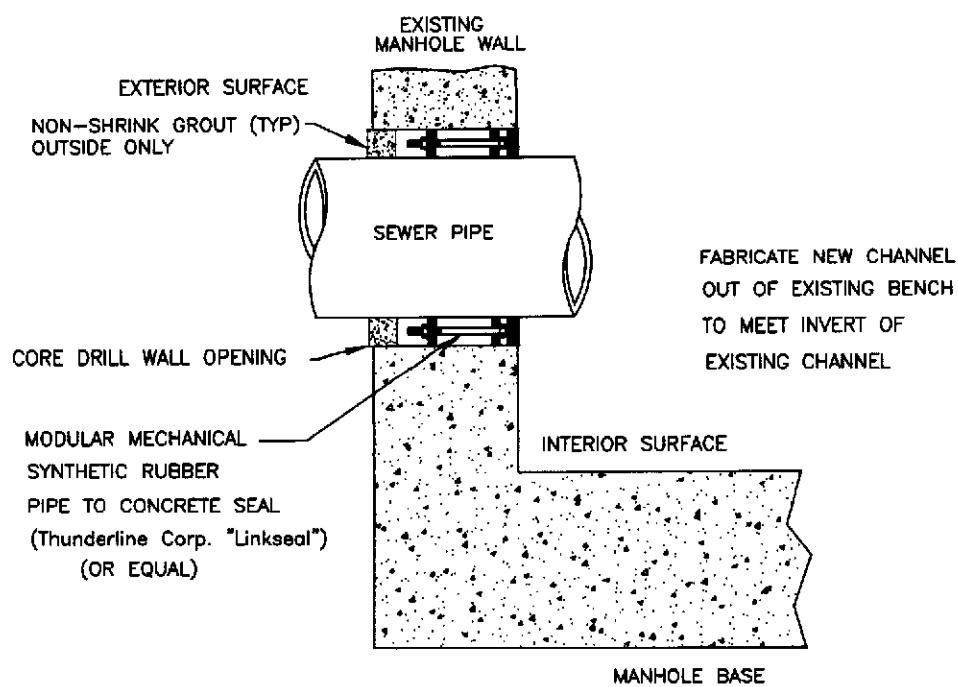
NAZARETH BOROUGH MUNICIPAL AUTHORITY

PIPE BEDDING DETAILS

DETAIL NO. 4

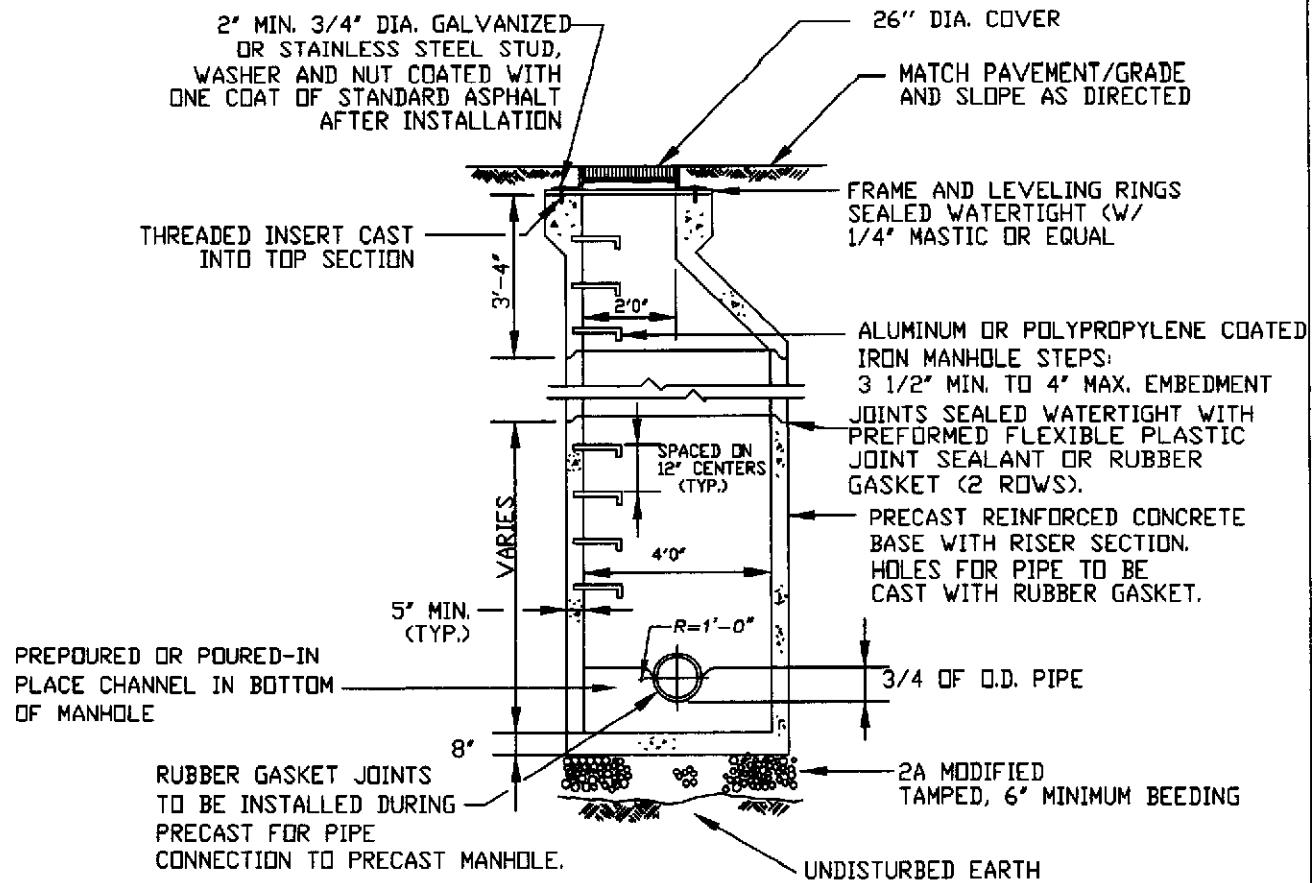
DATE: AUG 12, 2016

SCALE: N.T.S.



NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PIPE CONNECTION TO  
AN EXISTING MANHOLE

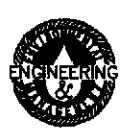
DETAIL NO. 5
DATE: AUG 12, 2016
SCALE: N.T.S.



## SECTION

NOTES:

1. THIS MANHOLE UTILIZED FOR RIM TO INVERT DEPTH LESS THAN SEVEN FEET.
2. PIPES SHALL PROTRUDE 2" INSIDE MANHOLE WALL.
3. STEEL TEMPLATE TO BE SUPPLIED BY MANHOLE MFR. IN ORDER TO FORM PROPER RECESS IN CONCRETE
4. RISERS TO BE OF MULTIPLE LENGTHS OF 1', IN ORDER TO SUIT VARIATIONS IN ELEVATION
5. ALL EXTERIOR CONCRETE SURFACES SHALL BE COATED WITH BIOMASTIC SUPER SERVICE BLACK AS MANUFACTURED BY CARBOLINE INC. OR COOPERS CREEK. COATING, 2 COATS, TOTAL 24 ML. DRY THICKNESS.
6. ALL INTERIOR CONCRETE SURFACES SHALL BE COATED WITH 2 COATS OF EPOXY-AMINE ADDUCT, MULTI-MILL, TWO COMPONENT, CATALYZED EPOXY WITH TOTAL SOLIDS VOLUME OF 49-51%.



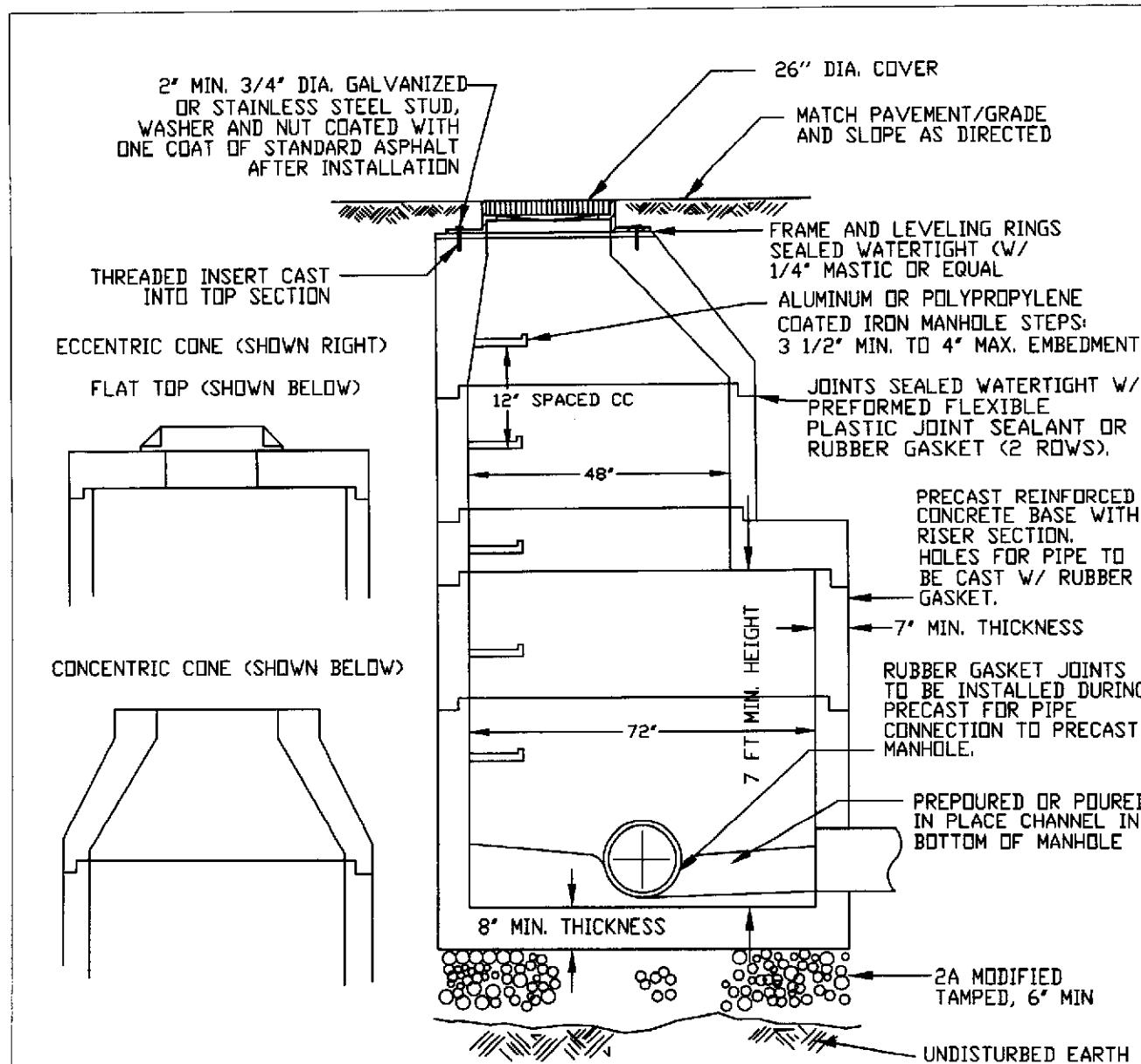
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PRECAST CONCRETE MANHOLE  
WITH PRECAST BASE (CONE TOP)

DETAIL NO. 6

DATE: AUG 12, 2016

SCALE: N.T.S.



NOTES:

1. THIS MANHOLE UTILIZED FOR RIM TO INVERT DEPTH EXCEEDING TEN FEET.
2. PIPES SHALL PROTRUDE 2" INSIDE MANHOLE WALL.
3. STEEL TEMPLATE TO BE SUPPLIED BY MANHOLE MFR. IN ORDER TO FORM PROPER RECESS IN CONCRETE
4. RISERS TO BE OF MULTIPLE LENGTHS OF 1', IN ORDER TO SUIT VARIATIONS IN ELEVATION

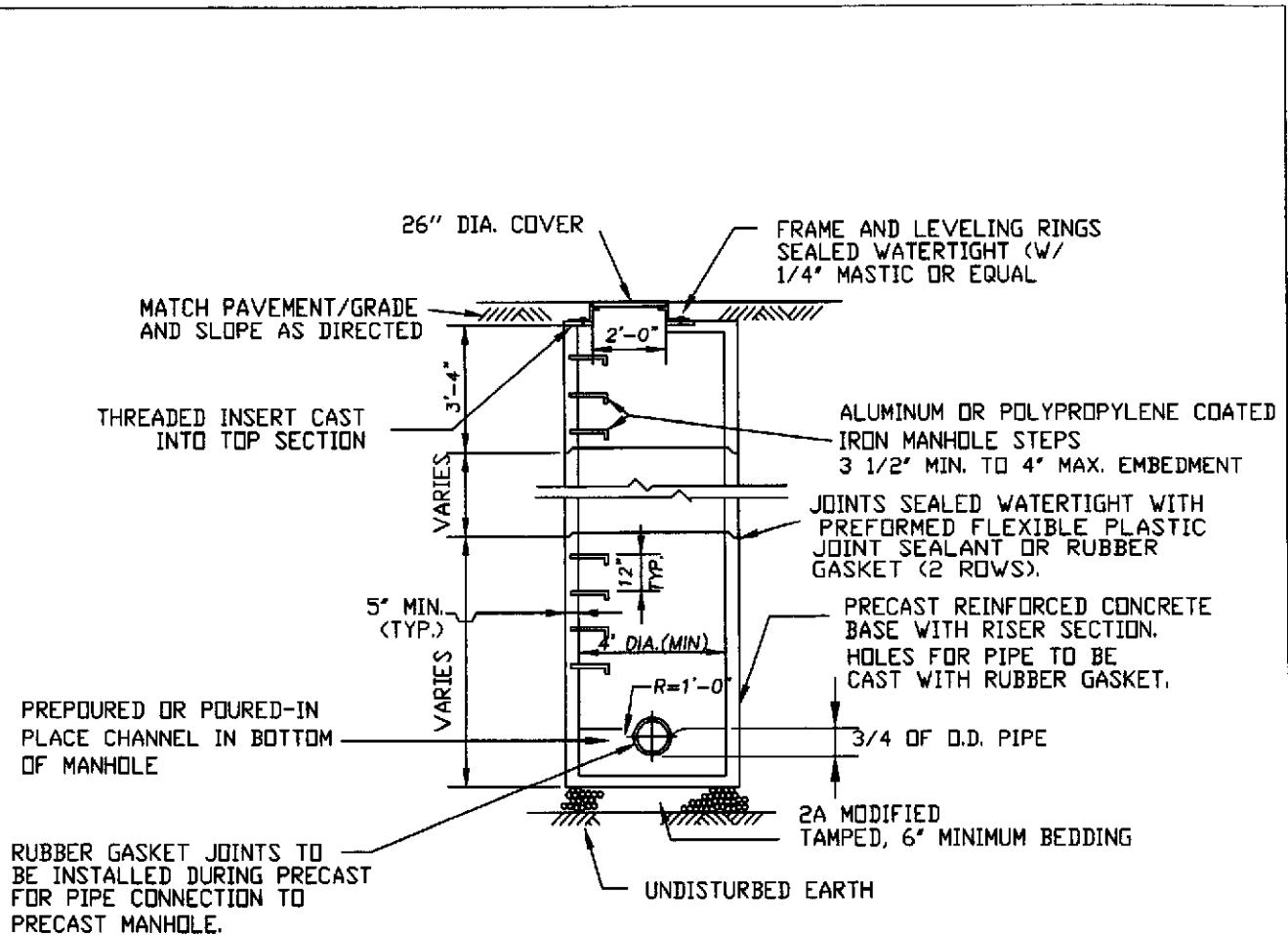
5. ALL EXTERIOR CONCRETE SURFACES SHALL BE COATED WITH BIOMASTIC SUPER SERVICE BLACK AS MANUFACTURED BY CARBOLINE INC. OR COOPERS CREEK. COATING, 2 COATS, TOTAL 24 ML. DRY THICKNESS.
6. ALL INTERIOR CONCRETE SURFACES SHALL BE COATED WITH 2 COATS OF WHITE EPOXY-AMINE ADDUCT, MULTI-MILL, TWO COMPONENT, CATALYZED EPOXY WITH TOTAL SOLIDS VOLUME OF 49-51%.



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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
6 FT PRECAST CONCRETE  
MANHOLE WITH PRECAST BASE

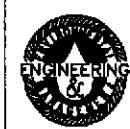
DETAIL NO. 6A
DATE: AUG 12, 2016
SCALE: N.T.S.



## SECTION

NOTES:

1. THIS MANHOLE UTILIZED FOR RIM TO INVERT DEPTH LESS THAN SEVEN FEET.
2. RISERS TO BE OF MULTIPLE LENGTHS OF 1', IN ORDER TO SUIT VARIATIONS IN ELEVATION
3. PIPES SHALL PROTRUDE 2' INSIDE MANHOLE WALL.
4. STEEL TEMPLATE TO BE SUPPLIED BY MANHOLE MFR. IN ORDER TO FORM PROPER RECESS IN CONCRETE.
5. ALL EXTERIOR CONCRETE SURFACES SHALL BE COATED WITH BIOMASTIC SUPER SERVICE BLACK AS MANUFACTURED BY CARBOLINE INC. OR COOPERS CREEK COATING, 2 COATS, TOTAL 24 ML. DRY THICKNESS.
6. ALL INTERIOR CONCRETE SURFACES SHALL BE COATED WITH 2 COATS OF EPOXY-AMINE ADDUCT, MULTI-MILL, TWO COMPONENT, CATALYZED EPOXY WITH TOTAL SOLIDS VOLUME OF 49-51%.



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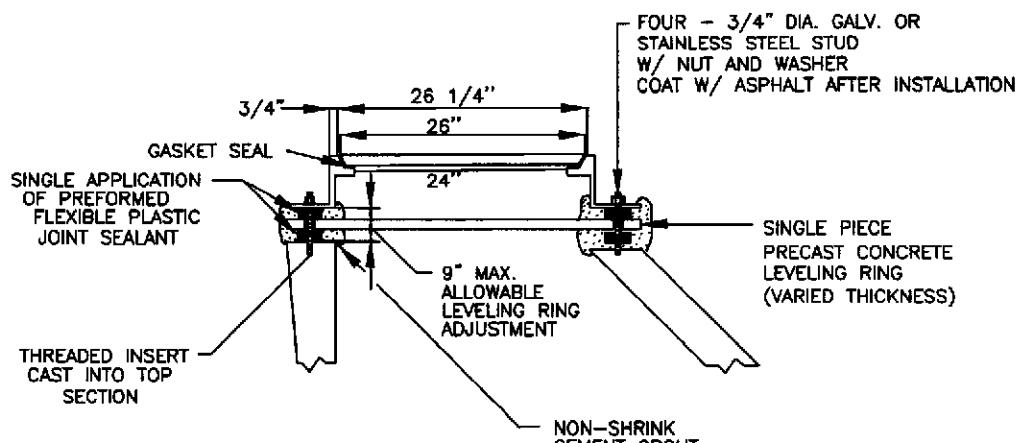
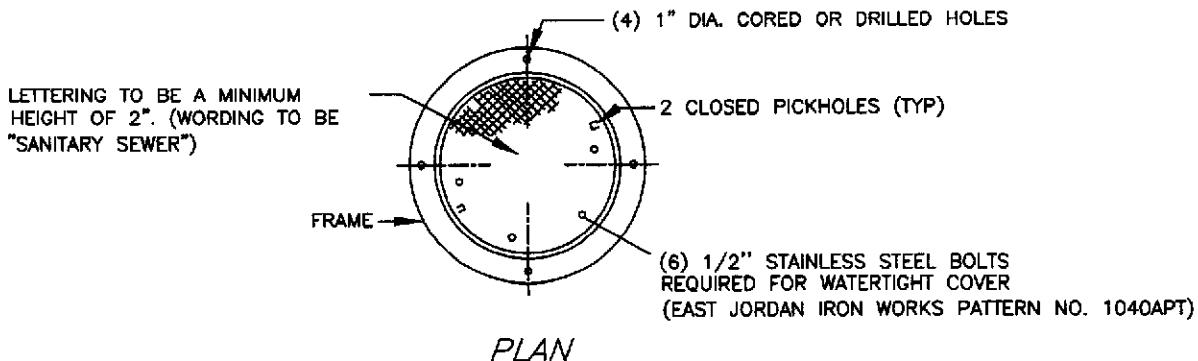
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
PRECAST CONCRETE MANHOLE  
WITH PRECAST BASE (FLAT TOP)

DETAIL NO. 7

DATE: AUG 12, 2016

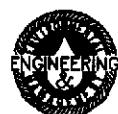
SCALE: N.T.S.

CASTING TO BE SUPPLIED WITH COVERS,  
MACHINED BEARING SURFACE AND  
FLAT NEOPRENE RUBBER GASKET



NOTES:

1. MANHOLE FRAMES AND COVERS SHALL BE EAST JORDAN IRON WORKS PATTERN NO. 1040AGS OR EQUAL.
2. MINIMUM COMBINED WEIGHT OF FRAME AND COVER SHALL BE 365 #
3. WHEN ADDITIONAL CONCRETE LEVELING RINGS ARE USED, CONTRACTOR MUST DRILL THREADED INSERTS IN TOP RING TO SECURE FRAME.



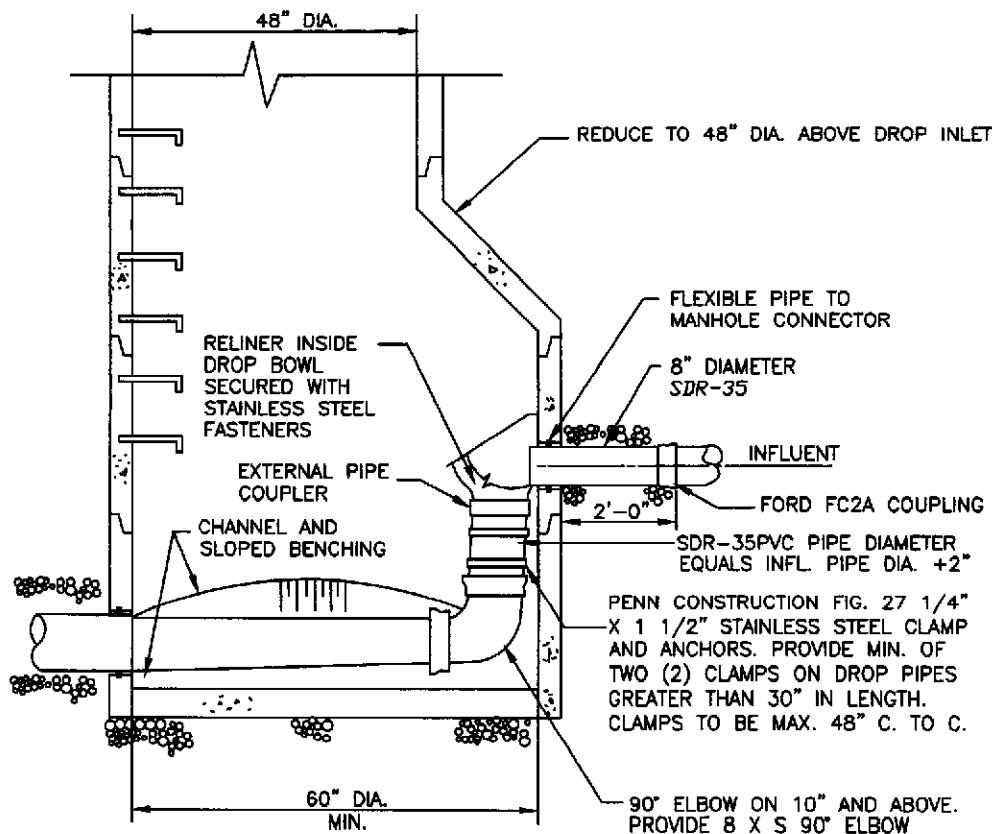
ENVIRONMENTAL ENGINEERING  
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
CAST IRON MANHOLE  
FRAME AND COVER

DETAIL NO. B

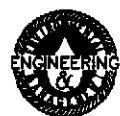
DATE: AUG 12, 2016

SCALE: N.T.S.



NOTES:

1. SEE DETAIL NO. 6 FOR MANHOLE SPECIFICATIONS.



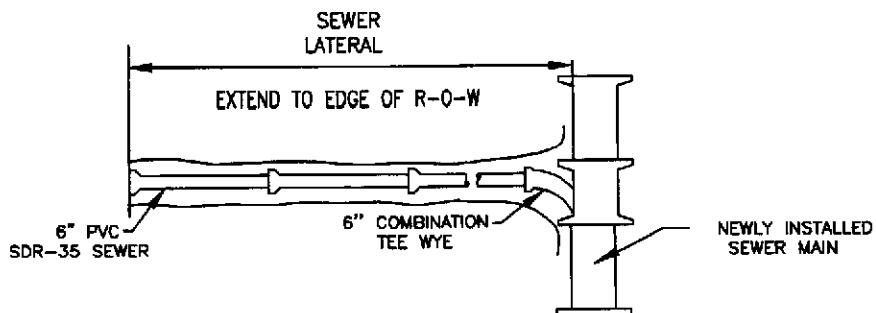
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
MANHOLE DROP CONNECTION  
(INSIDE)

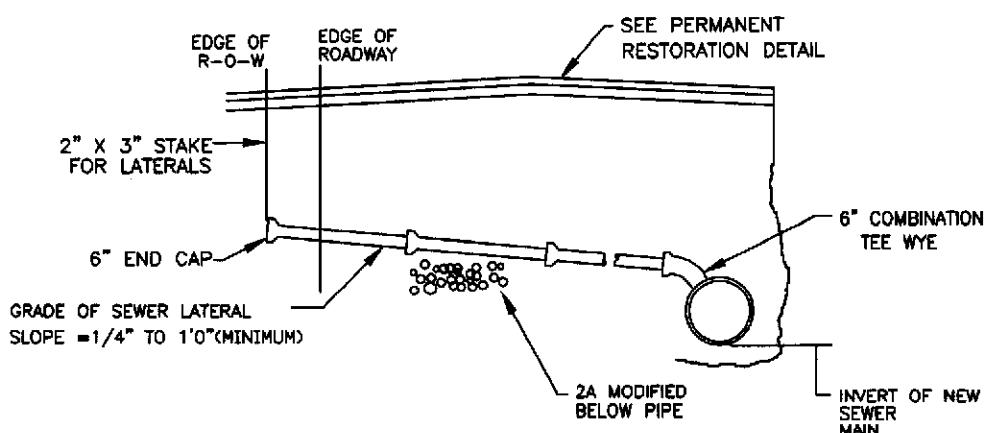
DETAIL NO. 9

DATE: AUG 12, 2016

SCALE: N.T.S.



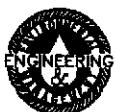
PLAN



PROFILE

NOTES :

1. TOP OF SEWER LATERAL  
SHALL BE A MIN. OF 3'0" BELOW  
FINISHED GRADE.
2. THE CONTRACTOR SHALL MARK THE END OF ALL  
LATERALS WITH A 2" X 3" STAKE
3. THE CONTRACTOR SHALL PROVIDE "AS-BUILT"  
CUT SHEETS INDICATING STATION, DEPTH, AND  
LOCATION OF ALL ENDS OF LATERALS  
TO AUTHORITY.
4. LATERALS SHALL BE 6-INCH PVC SDR-35 PIPE  
UNLESS OTHERWISE APPROVED BY AUTHORITY



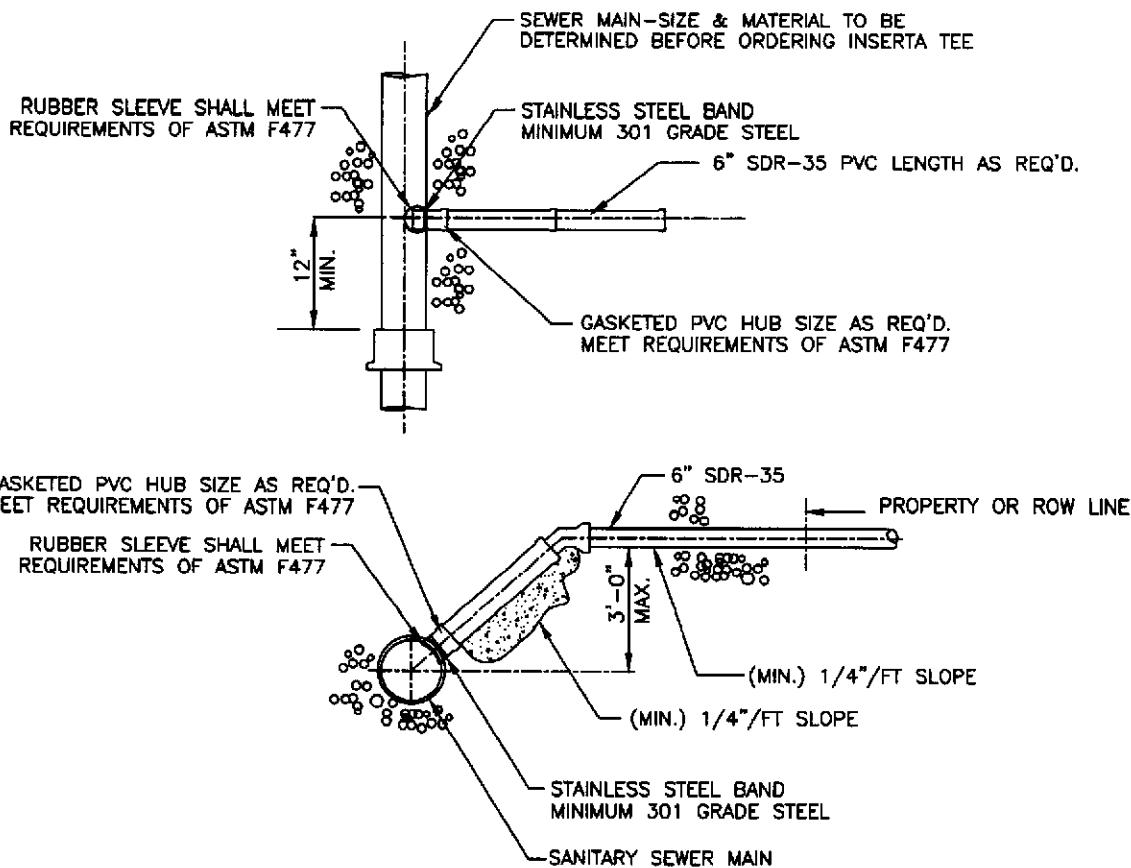
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
SEWER LATERAL & TEE WYE  
BRANCH IN NEW MAINS

DETAIL NO. 10

DATE: AUG 12, 2016

SCALE: N.T.S.



NOTES :

1. HOLE FOR INSERTA TEE IN SEWER MAIN TO BE CORE DRILLED, USING INSERTA TEE HOLE SAW OR EQUAL. NO OTHER METHOD IS ACCEPTABLE.
2. LATERAL PIPE CONNECTION TO SEWER MAIN SHALL BE MADE USING INSERTA TEE.
3. INSERTA TEE AS MANUFACTURED BY INSERTA TEE. GASKET PORTION TO BE SUITABLE FOR EXISTING PIPE MATERIAL AND WALL THICKNESS.
4. THE WATER BASED SOLUTION PROVIDED BY MANUFACTURER SHALL BE USED DURING ASSEMBLY. DO NOT USE PIPE LUBE.
5. MAXIMUM CONNECTION SIZE SHALL BE TWO (2) INCHES IN DIAMETER SMALLER THAN THE SEWER MAIN.
6. EXTRACTED "COUPON" TO BE GIVEN TO THE AUTHORITY.
7. TOP OF SEWER LATERAL SHALL BE A MINIMUM 3'-0" BELOW FINISHED GRADE AT R/O/W.
8. THE CONTRACTOR SHALL MARK THE END OF ALL LATERALS WITH A 2" X 3" STAKE.
9. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" CUT SHEETS INDICATING STATION, DEPTH, AND LOCATION OF ALL ENDS OF LATERALS TO AUTHORITY.
10. LATERALS SHALL BE 6-INCH PVC SDR-35 PIPE UNLESS OTHERWISE APPROVED BY AUTHORITY.



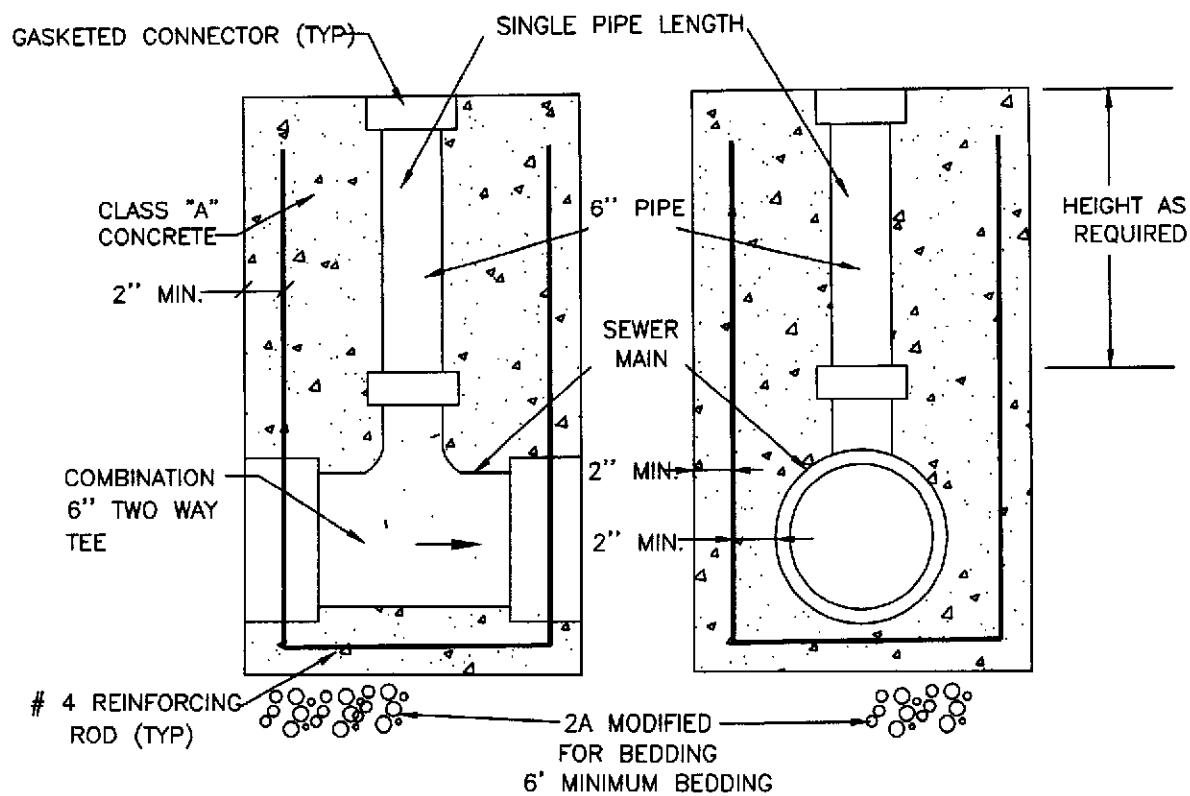
ENVIRONMENTAL ENGINEERING  
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MANAGEMENT ASSOCIATES INC.  
P.O. BOX 232 KULPSVILLE, PA. 19443 (215) 386-3375

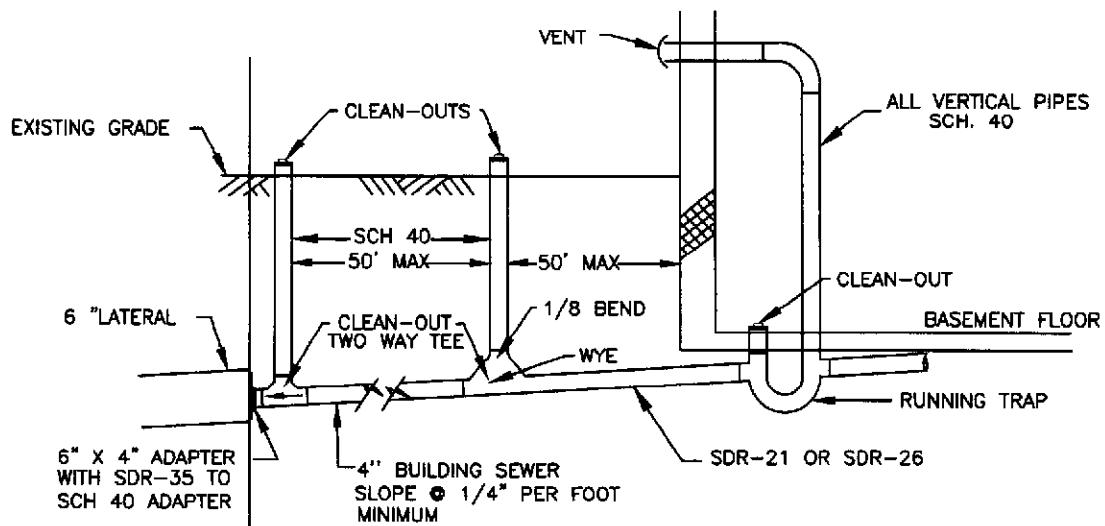
NAZARETH BOROUGH MUNICIPAL AUTHORITY  
SEWER LATERAL &  
TEE WYE BRANCH  
TO EXISTING MAIN

DETAIL NO. 10A

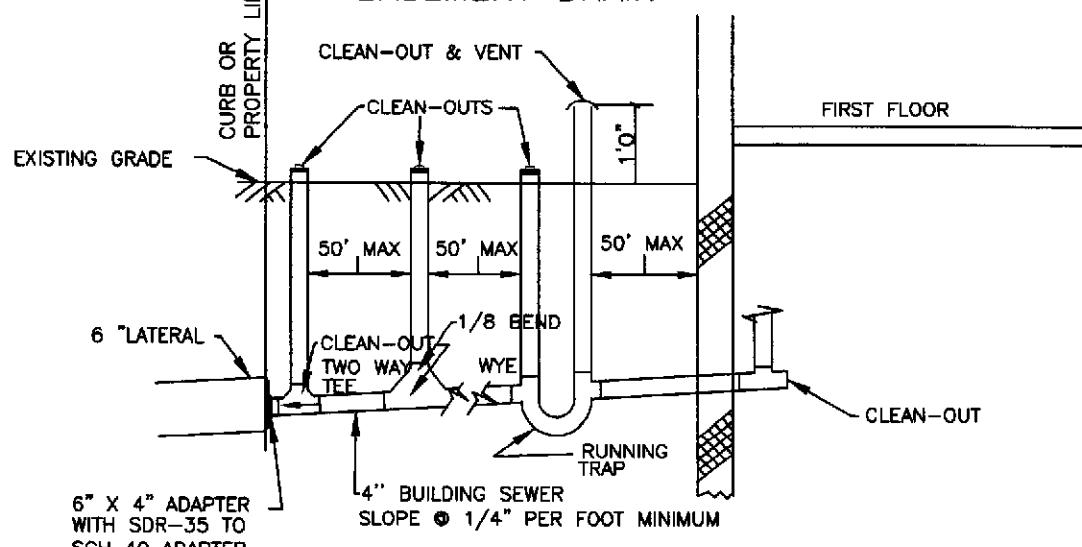
DATE: AUG 12, 2016

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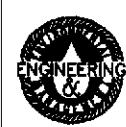
### BASEMENT DRAIN



### FIRST FLOOR DRAIN

#### NOTES:

1. ALL CLEAN-OUTS TO BE FLUSH WITH GRADE.
2. CLEANOUTS BE COVERED WITH A METAL SEWER COVER.  
SEE DETAIL NO. 12A AND 12B.
3. CLEAN-OUTS TO BE TWO WAY TEES.



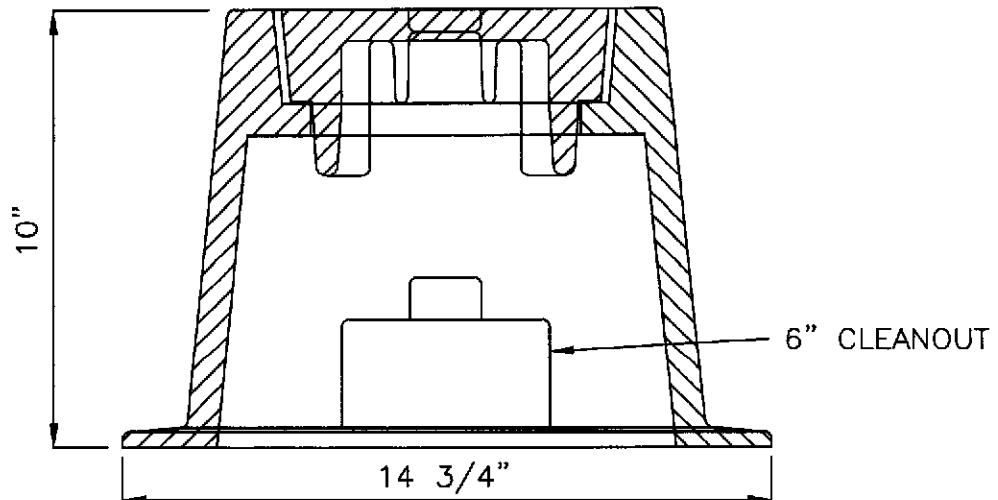
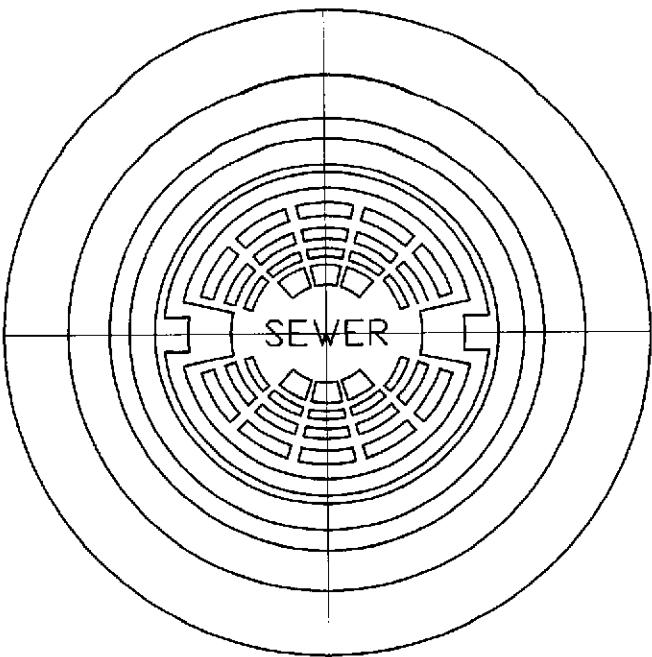
ENVIRONMENTAL ENGINEERING  
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P.O. BOX 232 KULPSVILLE, PA. 19443 (215) 368-3375

NAZARETH BOROUGH MUNICIPAL AUTHORITY  
STANDARD HOUSE CONNECTION

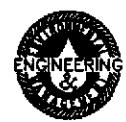
DETAIL NO. 12

DATE: AUG 12, 2016

SCALE: N.T.S.



AS MANUFACTURED BY THE GENERAL ENGINEERING  
COMPANY OR APPROVED EQUAL.



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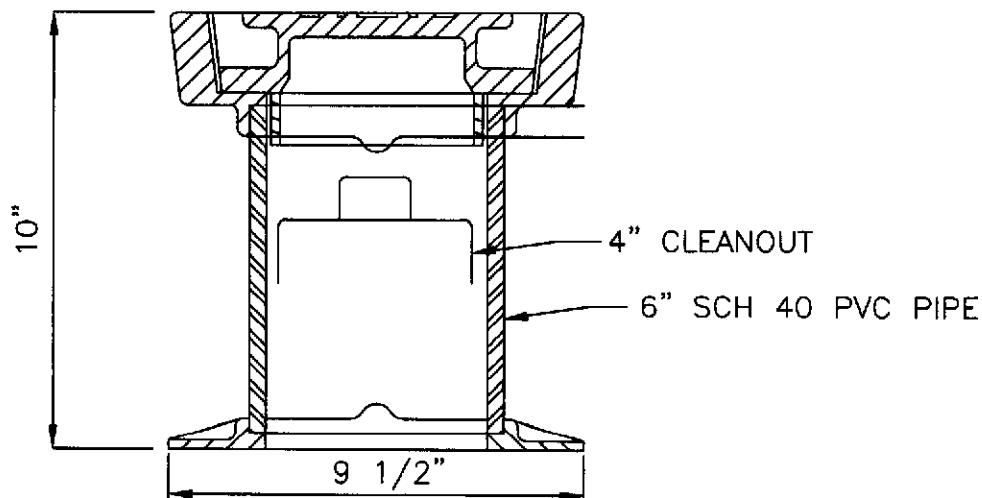
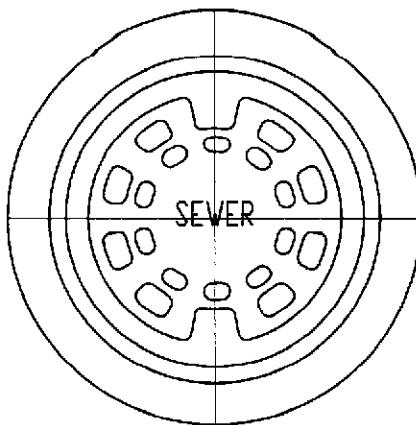
NAZARETH BOROUGH MUNICIPAL AUTHORITY

COVER FOR 6" CLEANOUT

DETAIL NO. 12A

DATE: AUG 12, 2016

SCALE: N.T.S.



AS MANUFACTURED BY THE GENERAL ENGINEERING  
COMPANY OR APPROVED EQUAL.



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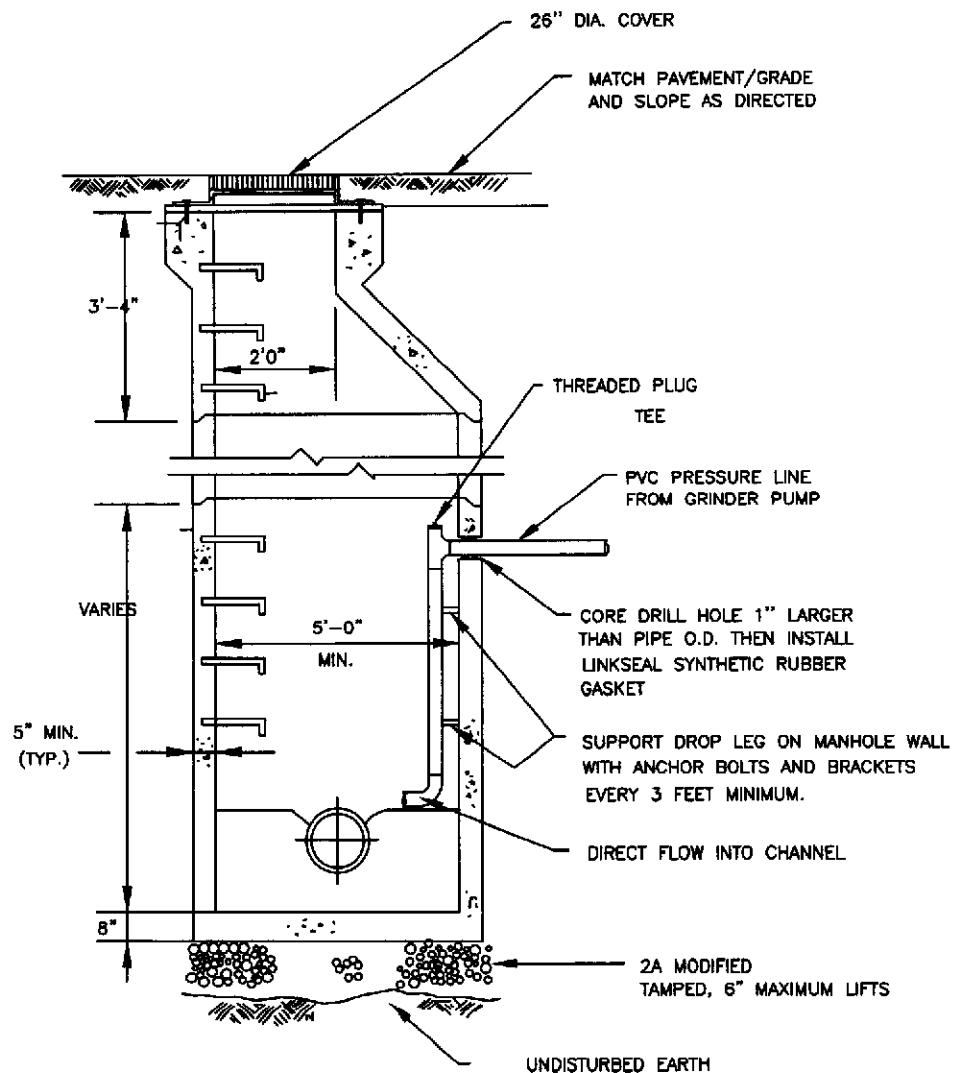
NAZARETH BOROUGH MUNICIPAL AUTHORITY

COVER FOR 4" CLEANOUT

DETAIL NO. 12B

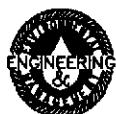
DATE: AUG 12, 2016

SCALE: N.T.S.



NOTES:

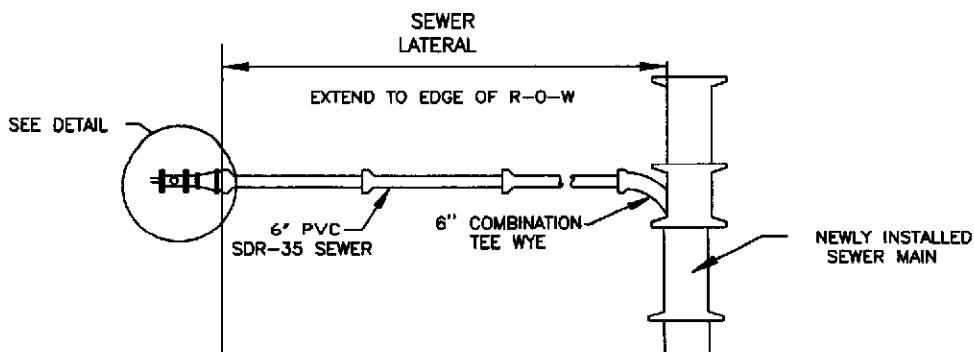
1. SEE DETAIL NO. 6 FOR MANHOLE SPECIFICATIONS.



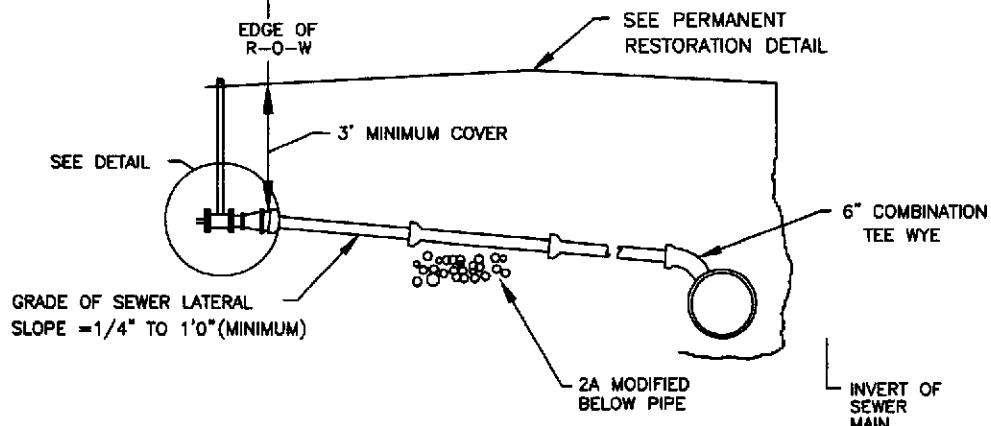
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&  
MANAGEMENT ASSOCIATES INC.  
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
GRINDER PUMP FORCE MAIN  
CONNECTION TO MANHOLE

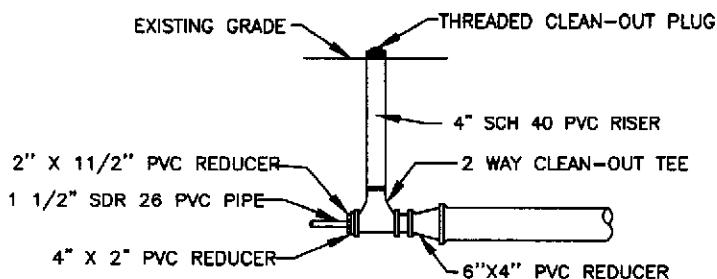
DETAIL NO. 13
DATE: AUG 12, 2016
SCALE: N.T.S.



PLAN



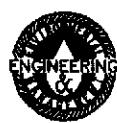
PROFILE



CLEAN-OUT DETAIL

NOTE:

ALL PIPE SHALL BE A MINIMUM OF SCHEDULE 40 PVC UNLESS OTHERWISE NOTED



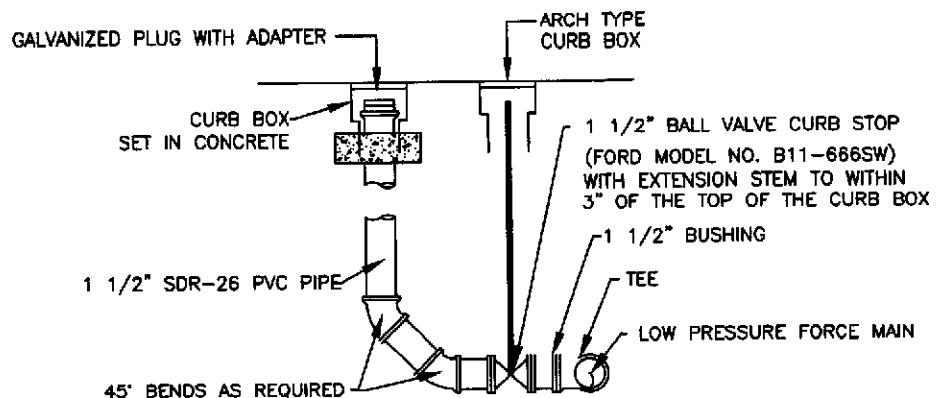
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
GRINDER PUMP FORCE MAIN  
TO SEWER LATERAL

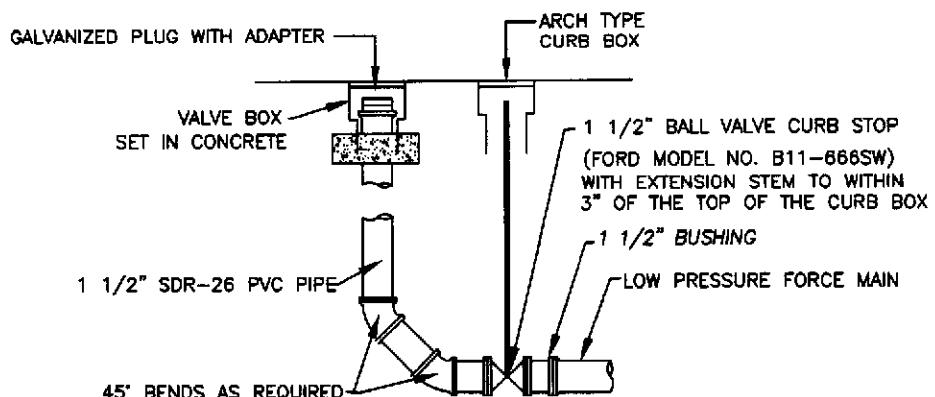
DETAIL NO. 14

DATE: AUG 12, 2016

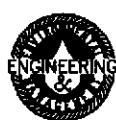
SCALE: N.T.S.



1 1/2" FORCE MAIN  
IN-LINE FLUSHING STATION



1 1/2" FORCE MAIN  
END-LINE FLUSHING STATION



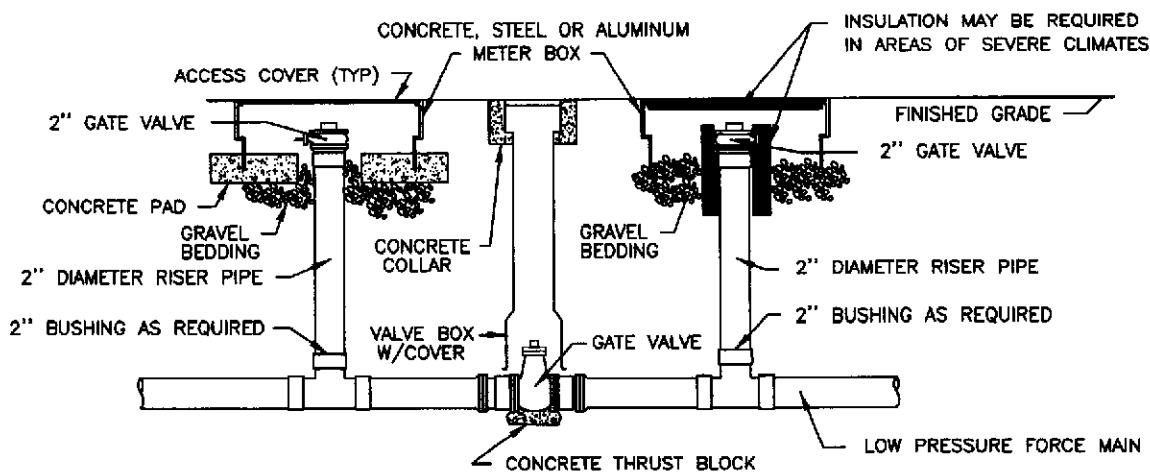
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
FORCE MAIN END  
FLUSHING CONNECTIONS

DETAIL NO. 15

DATE: AUG 12, 2016

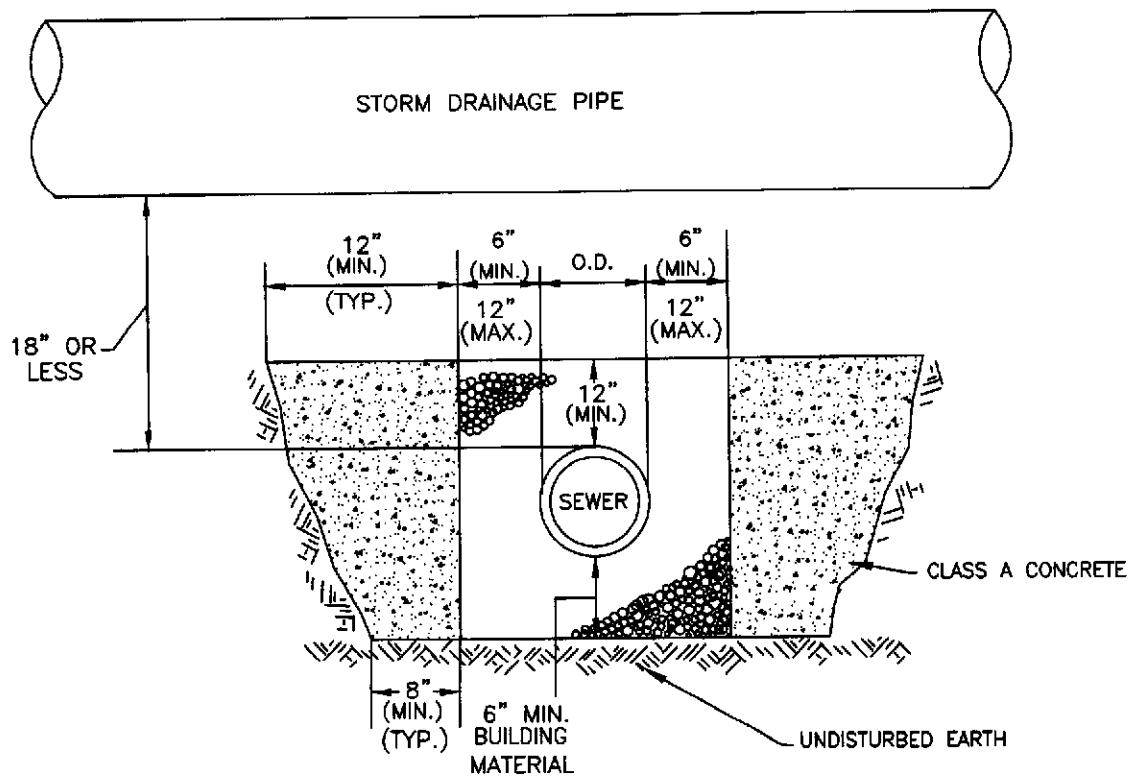
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NOTES:

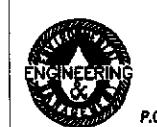
1. CONCRETE BEDDING REQUIRED FOR METER BOX INSTALLATIONS IN PAVED SURFACES.
2. USE 3000 PSI CLASS A CONCRETE
3. METER BOX ACCESS COVERS SHALL BE BOLT DOWN TYPE.
4. LOW PRESSURE FORCE MAIN SHALL BE A MINIMUM 3' DEEP.
5. SUPPLY 2" THREADED HOSE NIPPLE & CAP FOR 2" GATE VALVE.

 <p>ENVIRONMENTAL ENGINEERING &amp; MANAGEMENT ASSOCIATES INC. P.O. BOX 232 KULPSVILLE, PA 19443 (215) 368-3375</p>	<p>NAZARETH BOROUGH MUNICIPAL AUTHORITY FORCE MAIN IN-LINE FLUSHING CONNECTION</p>	<p>DETAIL NO. 16 DATE: AUG 12, 2016 SCALE: N.T.S.</p>
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NOTES:

1. PIERS TO BE 5 FT. LONG CENTERED ON STORM DRAIN.
2. USE 3000 PSI CLASS A CONCRETE.
3. FORM PIERS AGAINST SOLID TRENCH WALLS.
4. PIERS REQUIRED WHEN CLEARANCE BETWEEN PIPES IS LESS THAN 18".
5. THE AUTHORITY, AND/OR THE AUTHORITY'S REPRESENTATIVE RESERVES THE RIGHT TO INCREASE/DECREASE THE CLEARANCE DISTANCE REQUIRED FOR PIER SUPPORTS.
6. ALL SANITARY SEWER PIPE CROSSINGS WILL NEED TO BE VERIFIED FOR PIPE CLEARANCE BY THE AUTHORITY AND/OR THE AUTHORITY'S REPRESENTATIVE.



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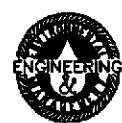
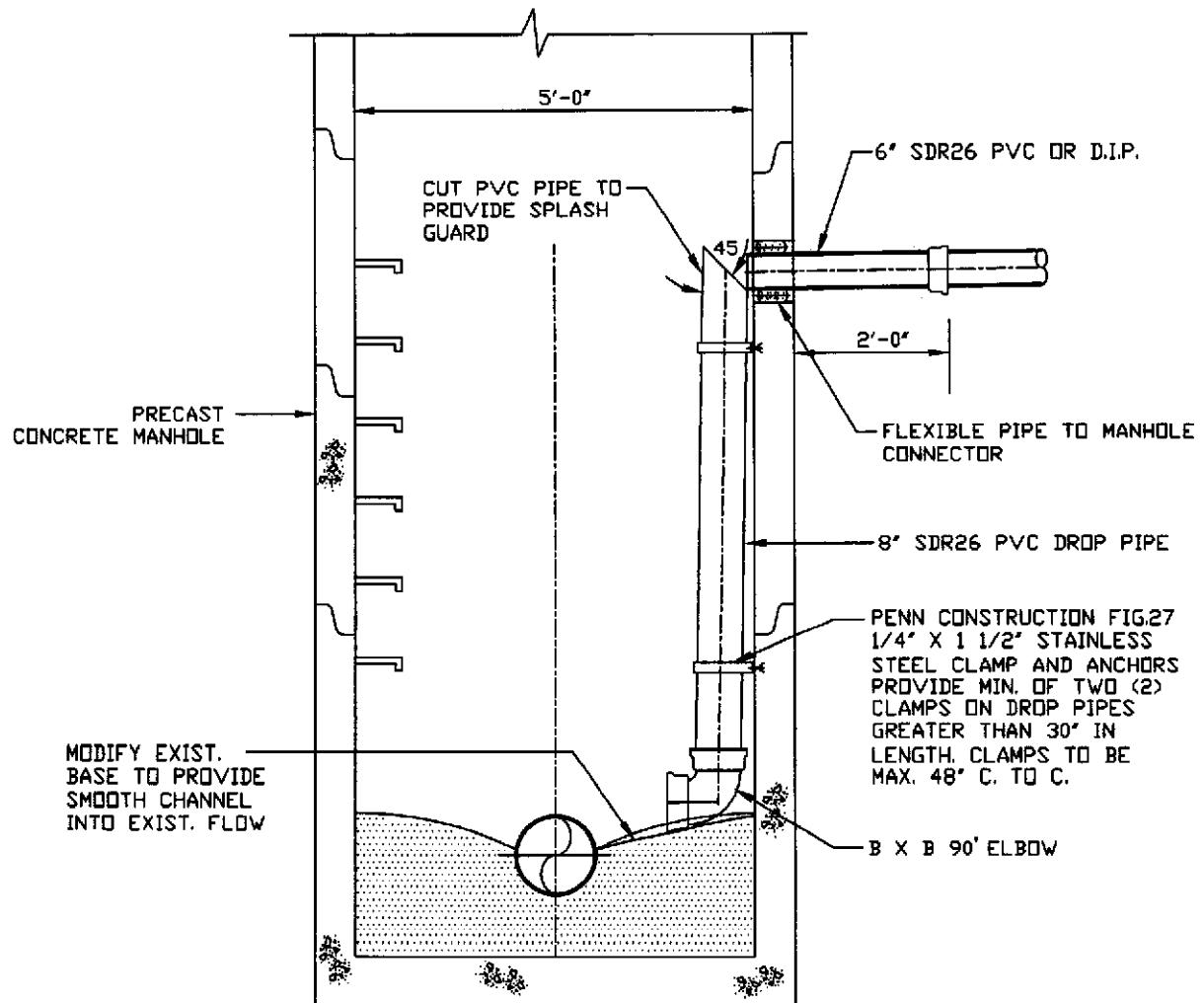
NAZARETH BOROUGH MUNICIPAL AUTHORITY

PIER SUPPORTS

DETAIL NO. 17

DATE: AUG 12, 2016

SCALE: N.T.S.



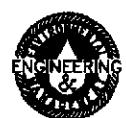
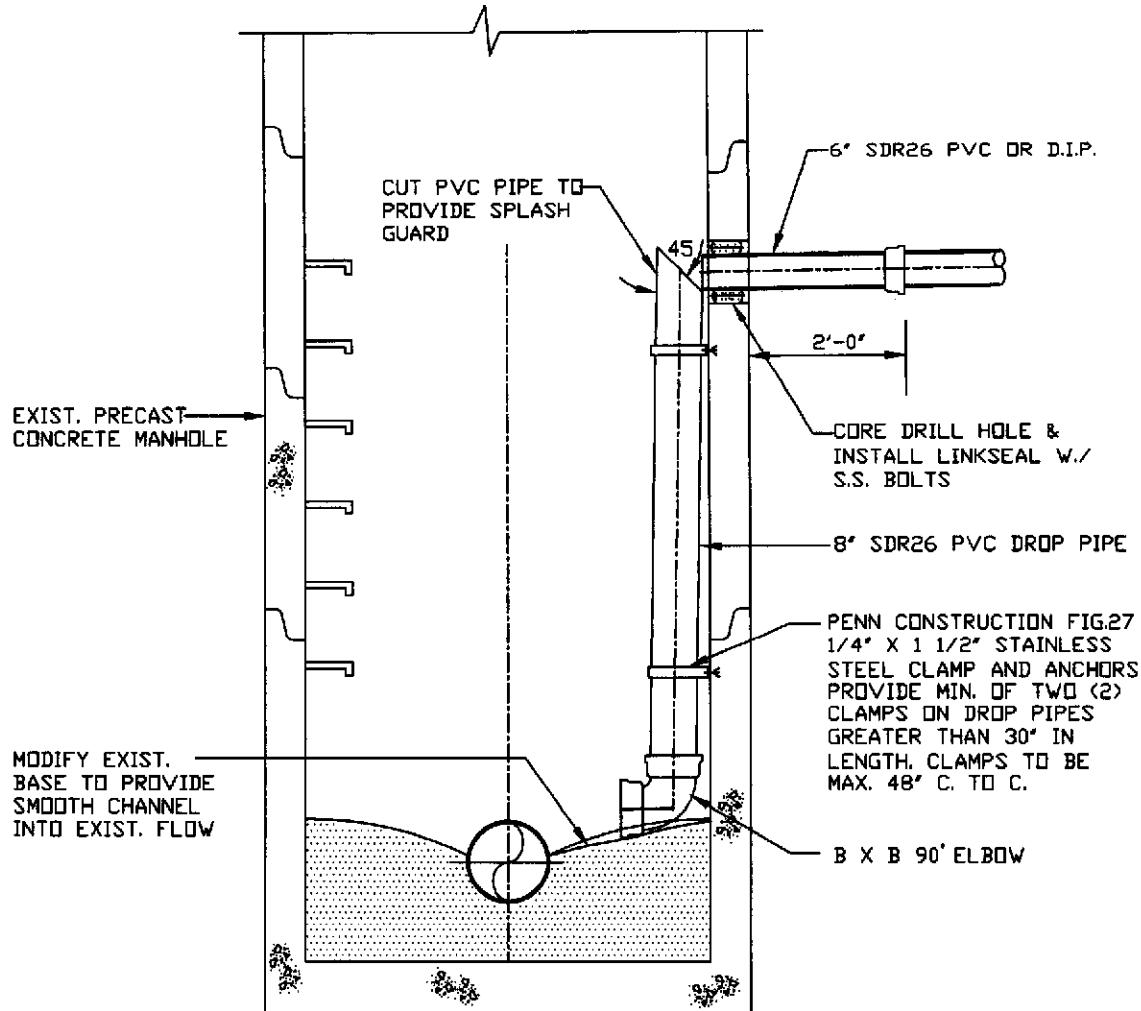
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NAZARETH BOROUGH MUNICIPAL AUTHORITY  
LATERAL CONNECTION  
TO MANHOLE

DETAIL NO. 18

DATE: AUG 12, 2016

SCALE: N.T.S.



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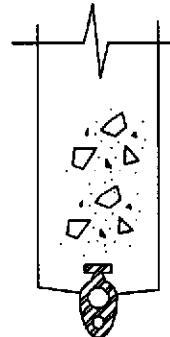
NAZARETH BOROUGH MUNICIPAL AUTHORITY

LATERAL CONNECTION  
TO EXISTING MANHOLE

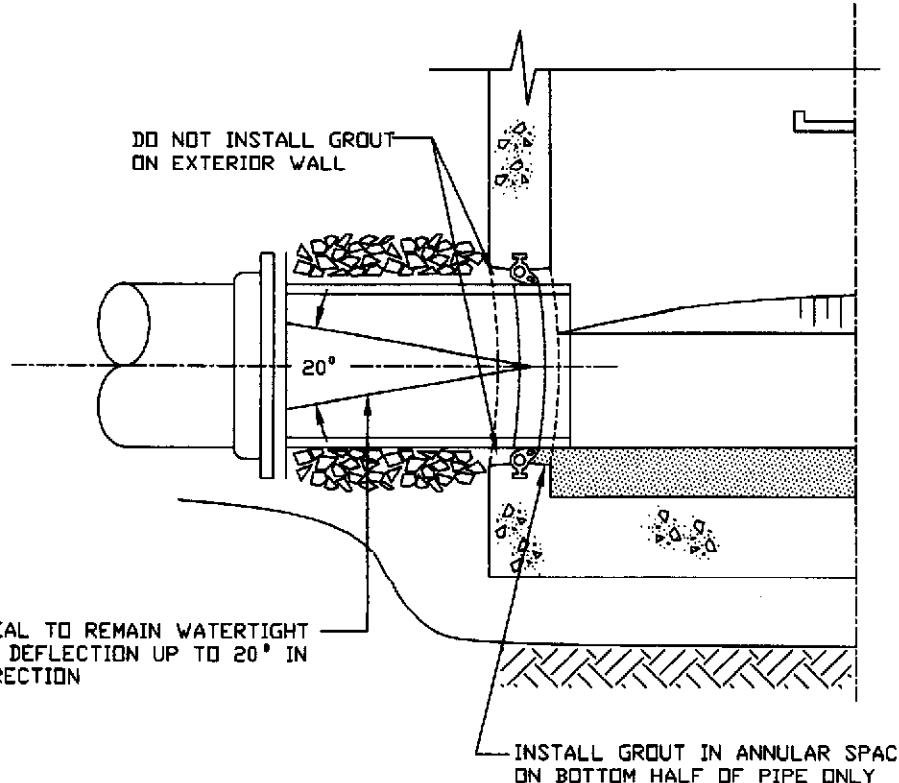
DETAIL NO. 19

DATE: AUG 12, 2016

SCALE: N.T.S.



INTEGRAL PIPE GASKET  
(BEFORE INSTALLATION)



NAZARETH BOROUGH MUNICIPAL AUTHORITY

MANHOLE PIPE GASKET

DETAIL NO. 20

DATE: AUG 12, 2016

SCALE: N.T.S.