

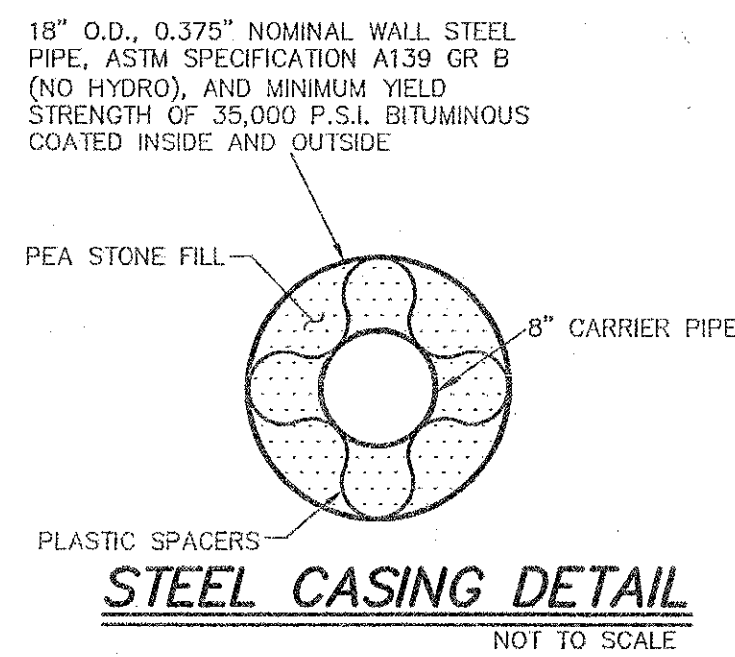


TABLE 1
SAFE BEARING LOADS OF
SOILS & MULTIPLICATION
FACTORS FOR MODIFICATION
OF THRUST BLOCK AREAS

SOIL	SAFE BEARING LOAD (LBS./SQ. FT.)	FACTOR
MUCK	0	0
SOFT CLAY	1000	2.0
SAND	2000	1.0
SAND AND GRAVEL	3000	0.67
SAND AND GRAVEL CEMENTED WITH CLAY SHALE	4000	0.50
CEMENTED WITH CLAY SHALE	10000	0.20

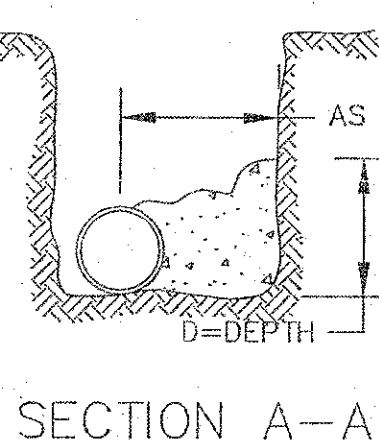
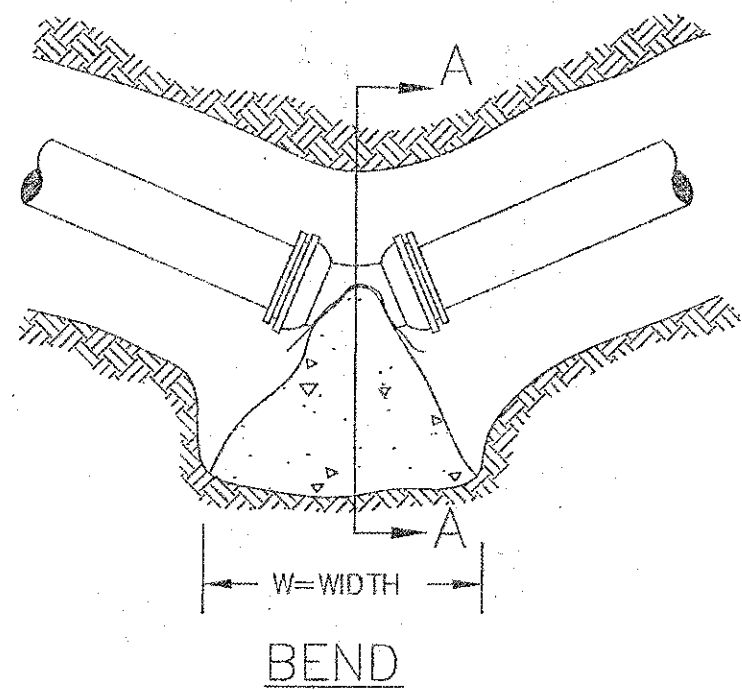
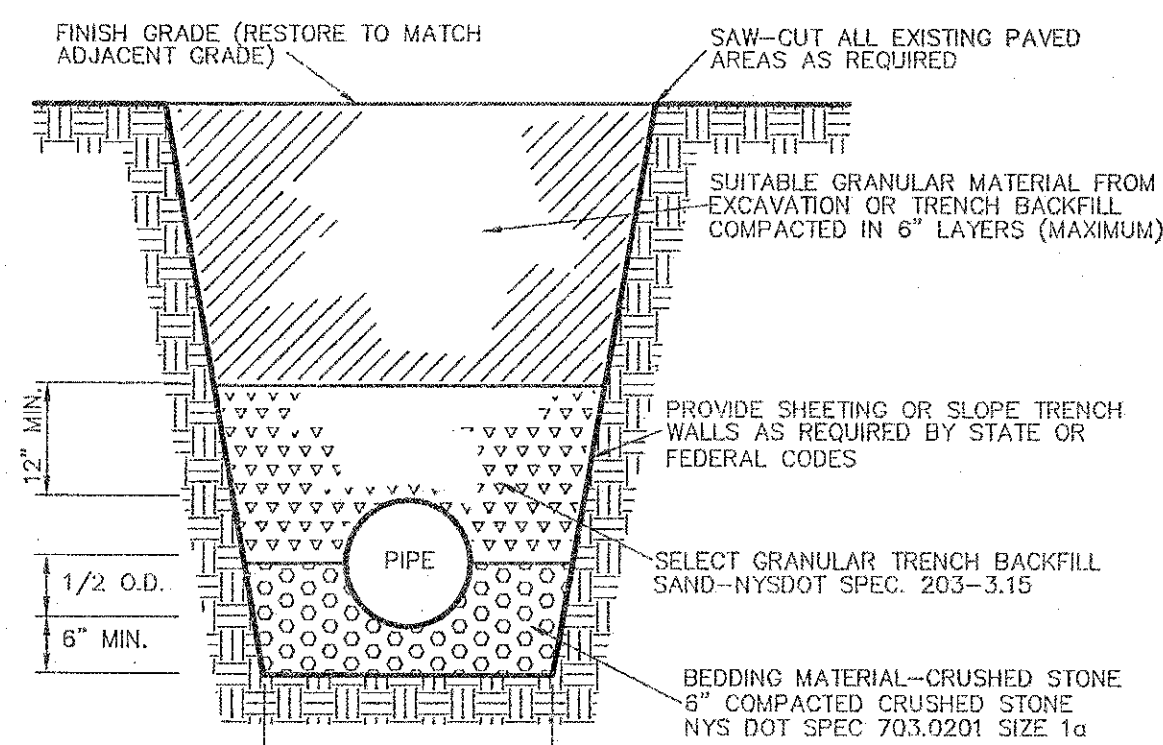
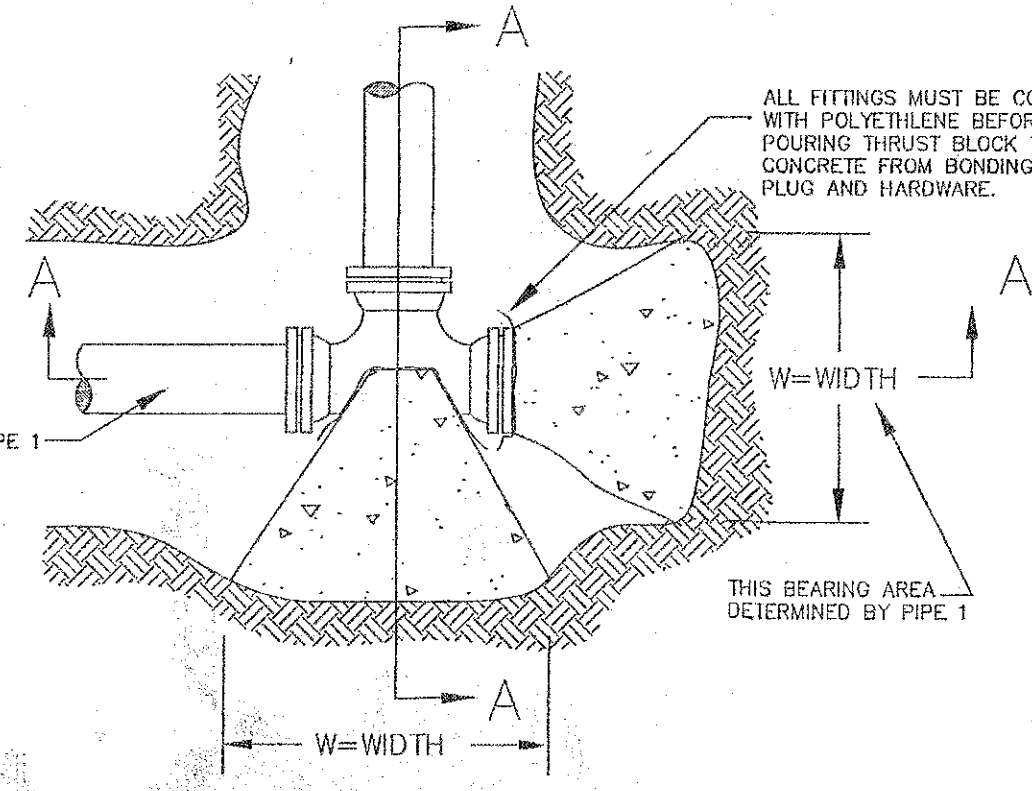
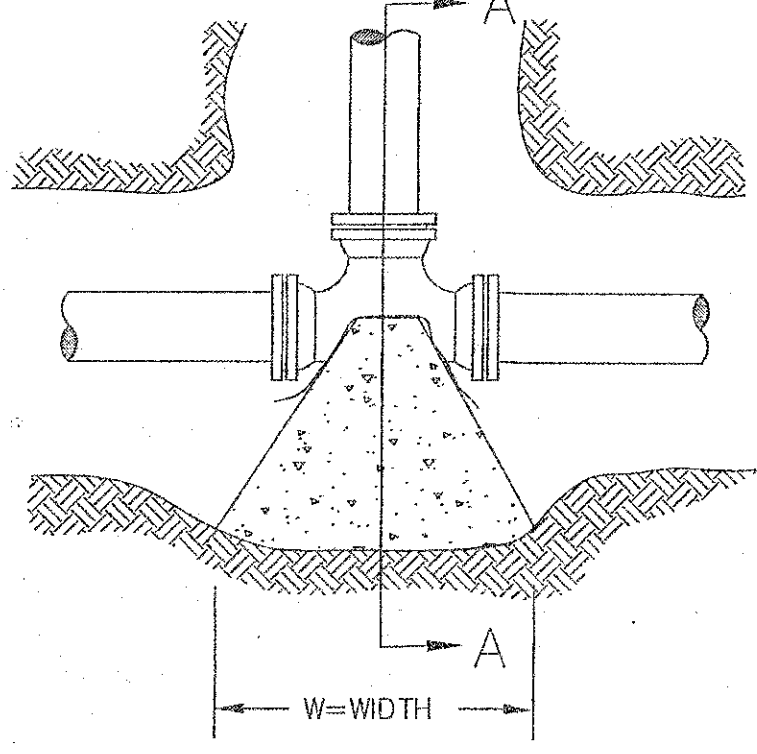


TABLE 2
REQUIRED BEARING AREAS & DIMENSIONS
FOR CONCRETE THRUST BLOCKS

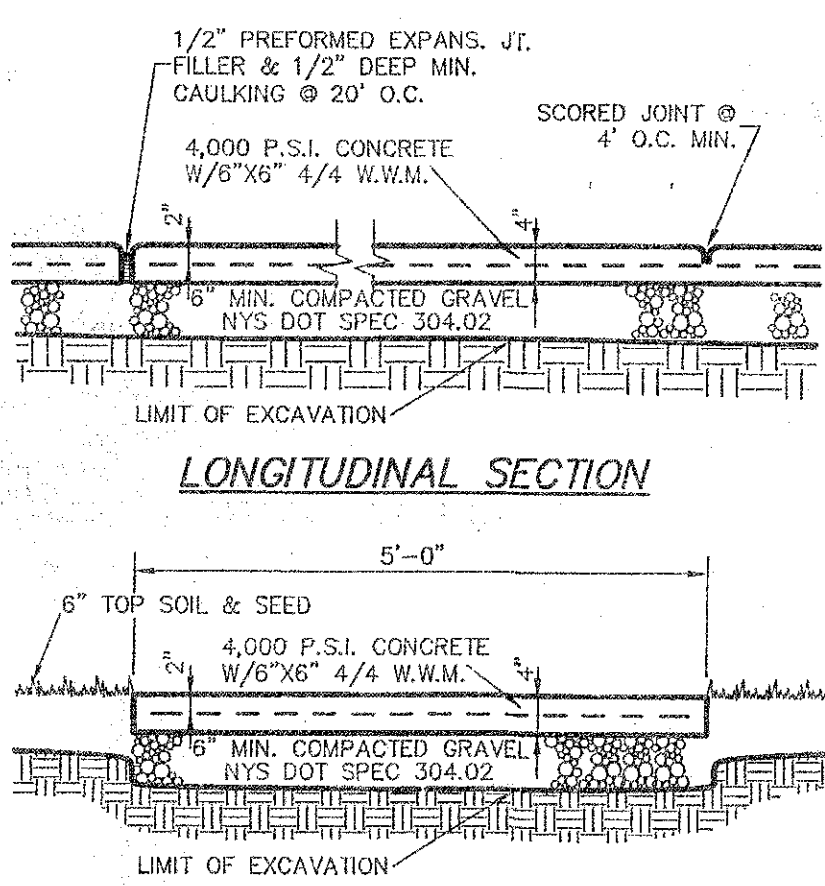
PIPE SIZE INCHES	TEE AREA sq. ft.	Dimensions DxW	90° (1/4) BEND AREA sq. ft.	Dimensions DxW	45° (1/8) BEND AREA sq. ft.	Dimensions DxW	22 1/2° (1/16) BEND AREA sq. ft.	Dimensions DxW	11-1/4° (1/32) BEND AREA sq. ft.	Dimensions DxW
8	5.7	2.0x3.0	8.0	2.0x4.0	4.3	2.0x2.5	2.2	1.5x1.5	1.1	1.0x1.5

NOTES

- FOR REQUIRED BEARING AREA AND DIMENSION D&W SEE TABLE 2. VALUES OF D&W OTHER THAN THOSE SHOWN IN THE TABLE, MAY BE USED PROVIDED THEY YIELD A BEARING AREA EQUAL TO OR LARGER THAN THAT REQUIRED.
- ALL THRUST BLOCKS SHALL BE 3000 P.S.I. POURED CONCRETE.
- CONCRETE NOT TO OVERLAP ANY JOINT.
- CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE HARDWARE.
- VALUES FOR TEE, ALSO APPLY TO END PLUGS, CAPS AND TAPPING SLEEVES.
- REQUIRED BEARING AREA ARE DUE TO THRUSTS CAUSED BY 150 P.S.I. WORKING PRESSURE PLUS 50% (75 P.S.I.) SURGE ALLOWANCE. RESULTING IN 225 P.S.I. TOTAL INTERNAL PRESSURE, NOMINAL PIPE DIAMETER USED.
- REQUIRED BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING CAPACITY OF 2000 LBS. PER SQ. FT. FOR SAND. DUE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS MAY BE MODIFIED BY THE ENGINEER BY MULTIPLYING THE AREA GIVEN IN TABLE 1 FOR THE APPROPRIATE PIPE SIZE AND FITTING BY THE LISTED CORRECTION FACTORS.
- IN MUCK, PEAT OR RECENTLY PLACED FILL, ALL THRUSTS SHALL BE RESISTED BY PILES OR ITS ROADS TO SOLID FOUNDATIONS OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS, ALL A.O.B.E.



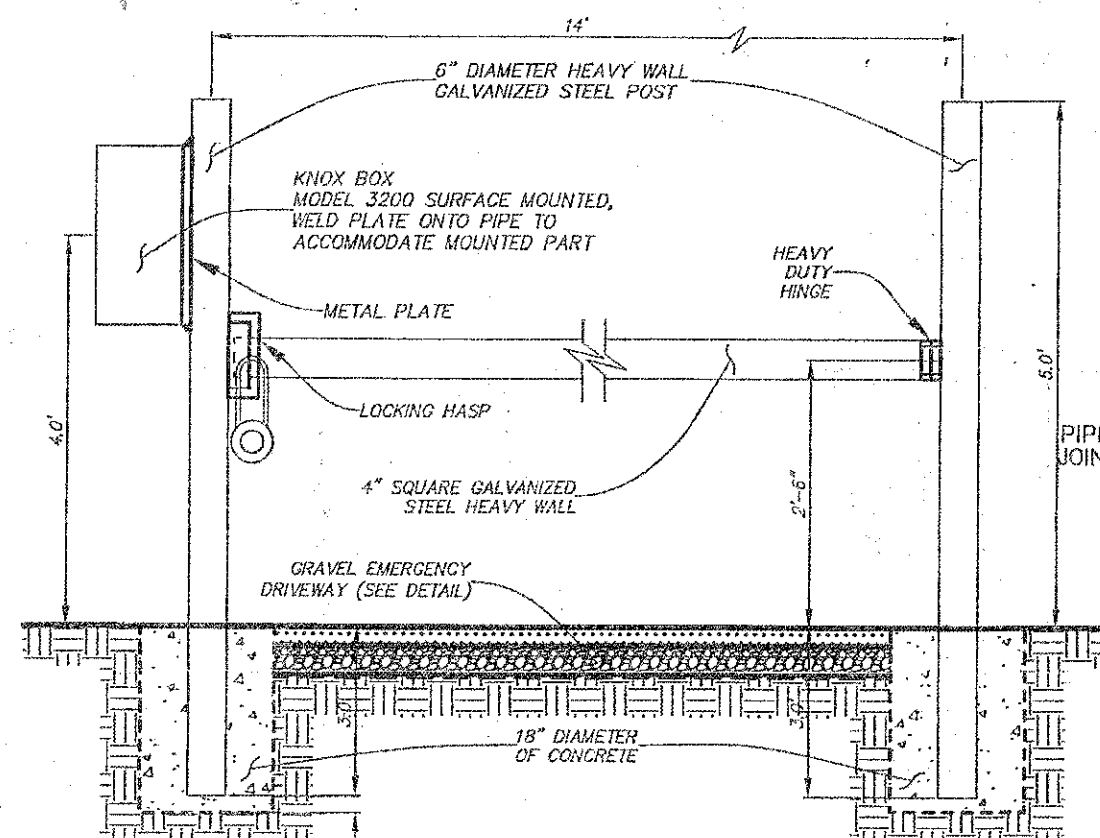
**TYPICAL POURED IN PLACE CONCRETE
THRUST BLOCK DETAILS**
NOT TO SCALE



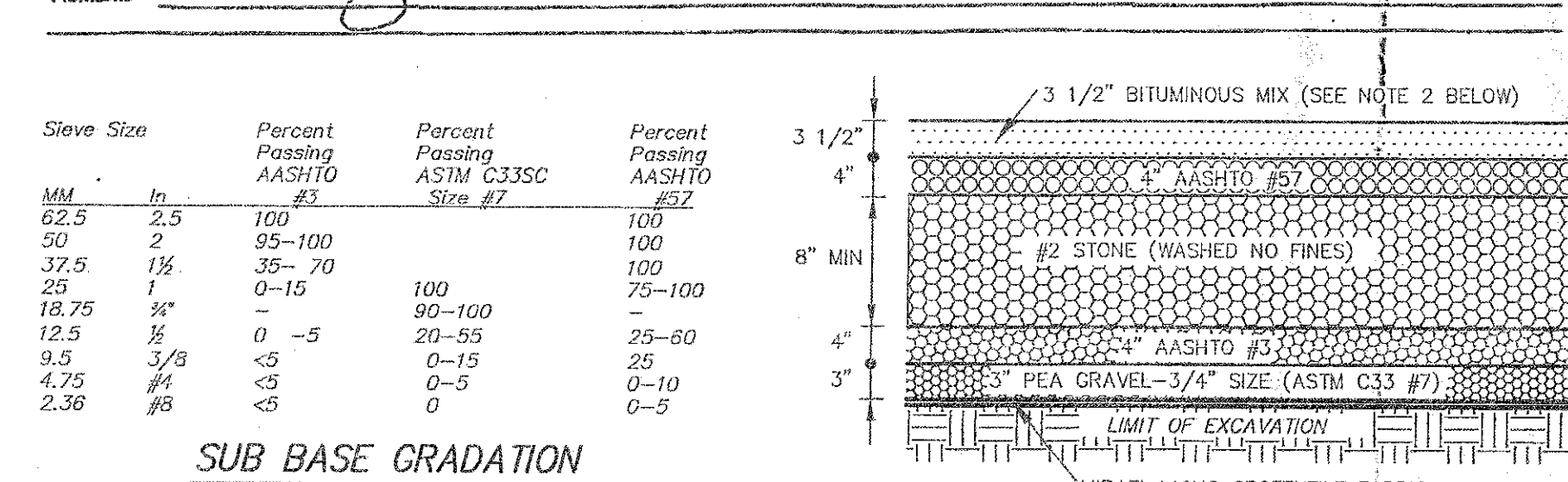
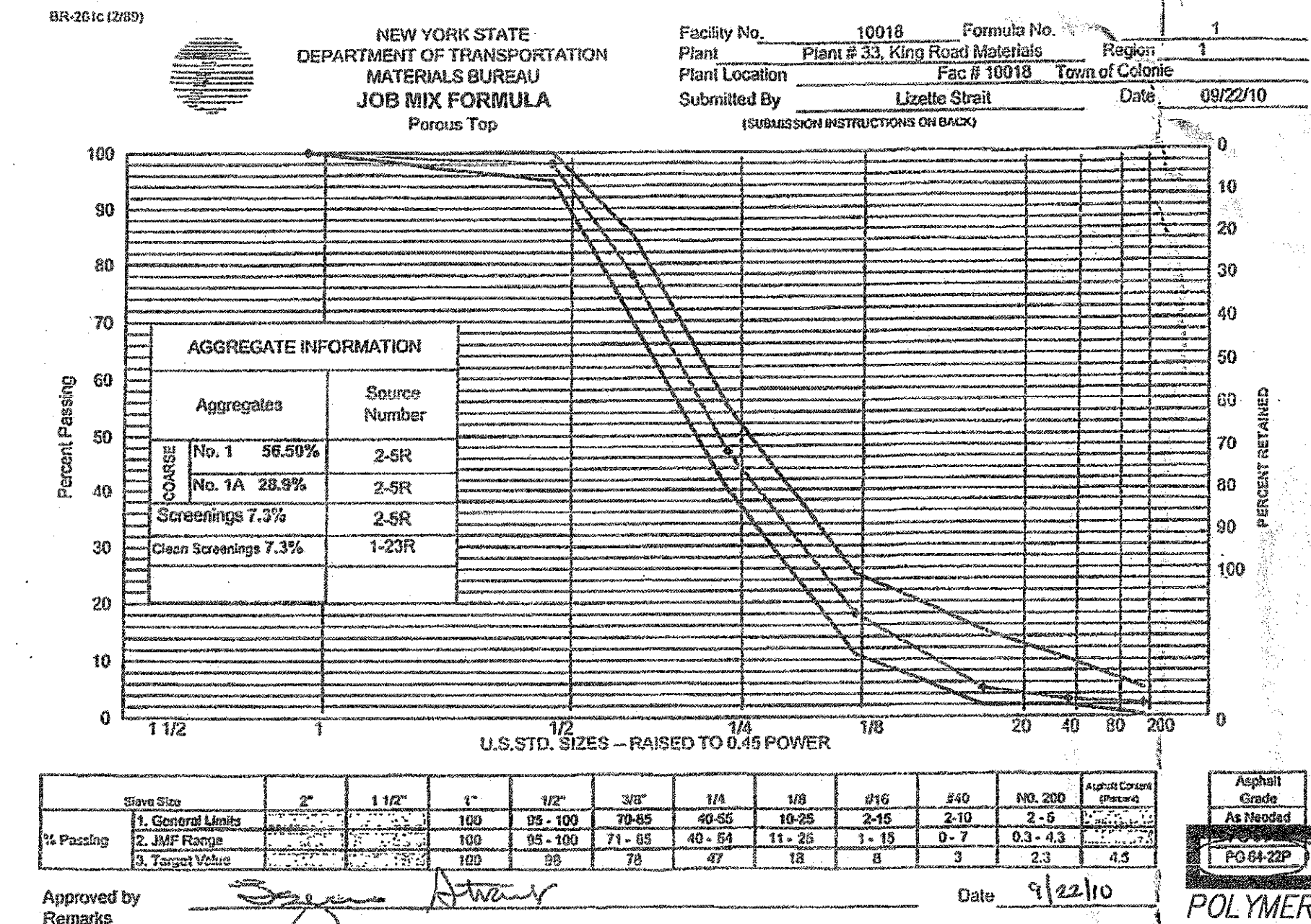
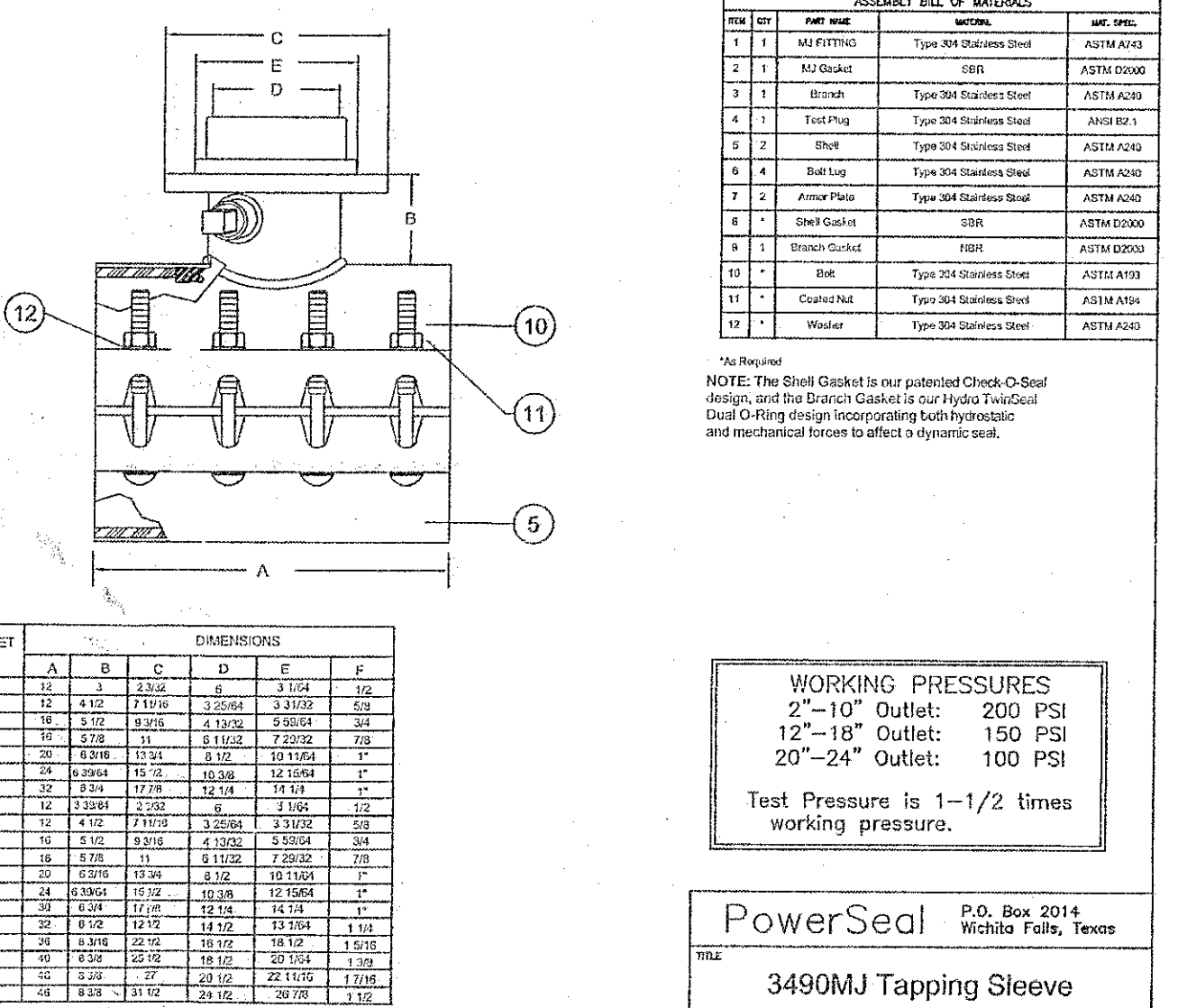
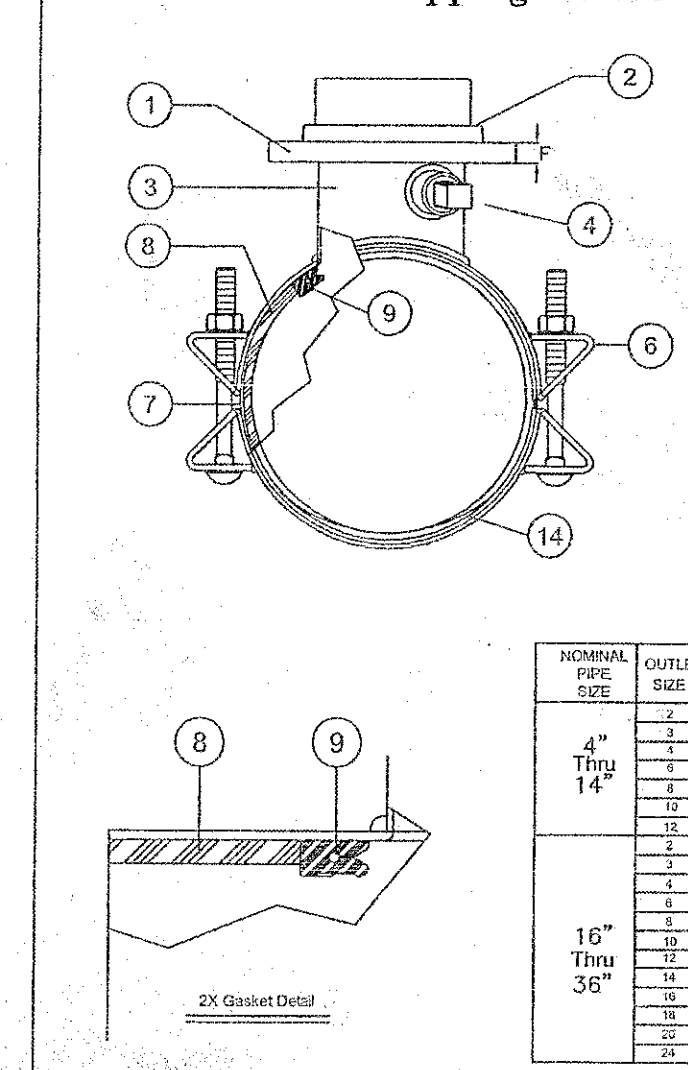
CROSS SECTION
W=WIDTH

CONCRETE WALK DETAIL
NOT TO SCALE

**TAPPING VALVE & SLEEVE
INSTALLATION DETAIL**
NOT TO SCALE



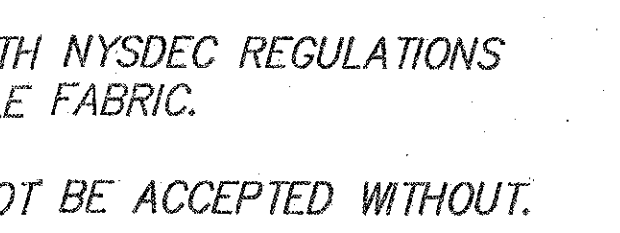
Reference: 3490 MJ Tapping Sleeve



CRITICAL POROUS PAVEMENT NOTES:

- SUB GRADE MUST BE DECOMPACTED IN ACCORDANCE WITH NYSDEC REGULATIONS IMMEDIATELY PRIOR TO INSTALLATION OF THE GEOTEXTILE FABRIC.
- DESIGN MIX MUST HAVE POLYMER ADDITIVE AND WILL NOT BE ACCEPTED WITHOUT.

PAVEMENT SECTION



STANDARD PAVEMENT DETAIL
NOT TO SCALE

**CONCRETE CURB
(CAST IN PACE) DETAIL**
NOT TO SCALE

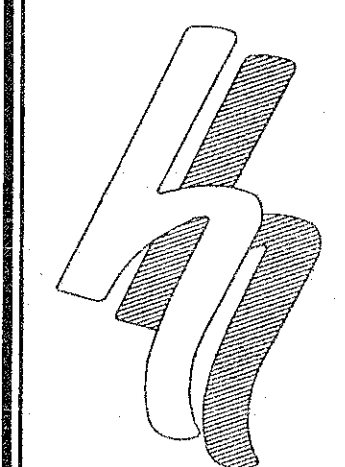
GRAVEL EMERGENCY DRIVEWAY
NOT TO SCALE

ALBANY COUNTY HEALTH DEPARTMENT APPROVAL

**ALBANY COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES**
By direction of the Commissioner of Health, these plans are hereby approved. See first sheet for date and signature.

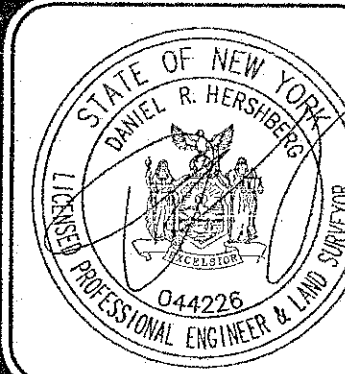
**PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK**
By direction of the Chairman, these drawings are hereby approved. See sheet(s) for date and signature.

RELEASED FOR CONSTRUCTION



HERSHBERG & HERSHBERG
Consulting Engineers
and Land Surveyors
18 Locust Street
Albany, New York 12203

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, IS ILLEGAL.



DATE	REVISIONS
12/29/13	1. REVISION AS PER 12/24/13 REVIEW LETTER
2/19/14	2. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	3. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	4. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	5. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	6. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	7. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	8. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	9. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	10. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	11. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	12. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	13. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	14. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	15. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	16. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	17. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	18. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	19. REVISION AS PER 2/19/14 REVIEW LETTER
2/19/14	20. REVISION AS PER 2/19/14 REVIEW LETTER

REVISIONS

SITE DETAILS
GLENMONT ABBEY VILLAGE
(FKA-GLENMONT VILLAGE SENIOR HOUSING)
GLENMONT ROAD
TOWN OF BETHLEHEM, NEW YORK

APPLICANT: VAN WIES VILLAGE, LLC
United Development Corp
300 Jordan Road
Troy, New York 12180

DATE: 12/12/13
SCALE: 1"=60'
FILE: 120265

C-7