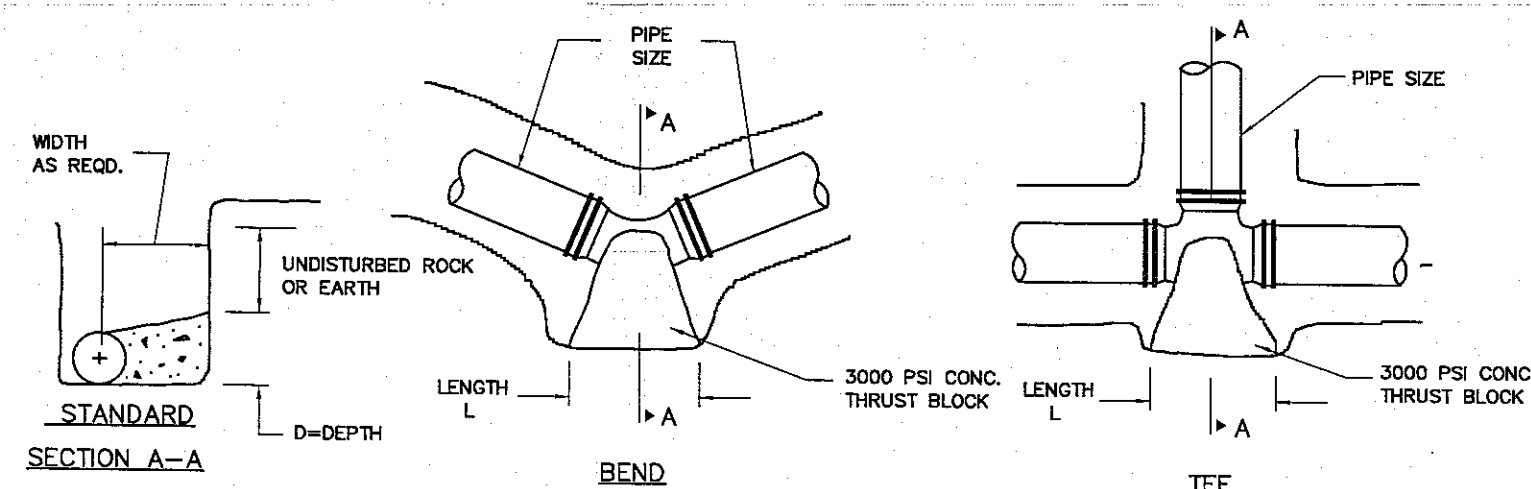


GABION RETAINING WALL DETAIL AT POND CROSSING
NO SCALE
IF REQUIRED



REQUIRED BEARING AREAS & DIMENSIONS FOR CONCRETE THRUST BLOCKS

PIPE SIZE (IN.)	AREA (Sq. Ft.)	Dimen. (Ft.)	80% 1/2 BEND	45% 1/2 BEND	25% 1/2 BEND	11-1/4% 1/2 BEND
4	1.4	1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.5
6	3.2	1.5 x 2.5	4.5	2.0 x 2.5	2.4	1.5 x 2.0
8	5.7	2.0 x 3.0	8.0	2.0 x 4.0	4.3	2.0 x 2.5
12	12.7	3.5 x 3.5	18.0	4.0 x 4.5	9.7	2.5 x 4.0

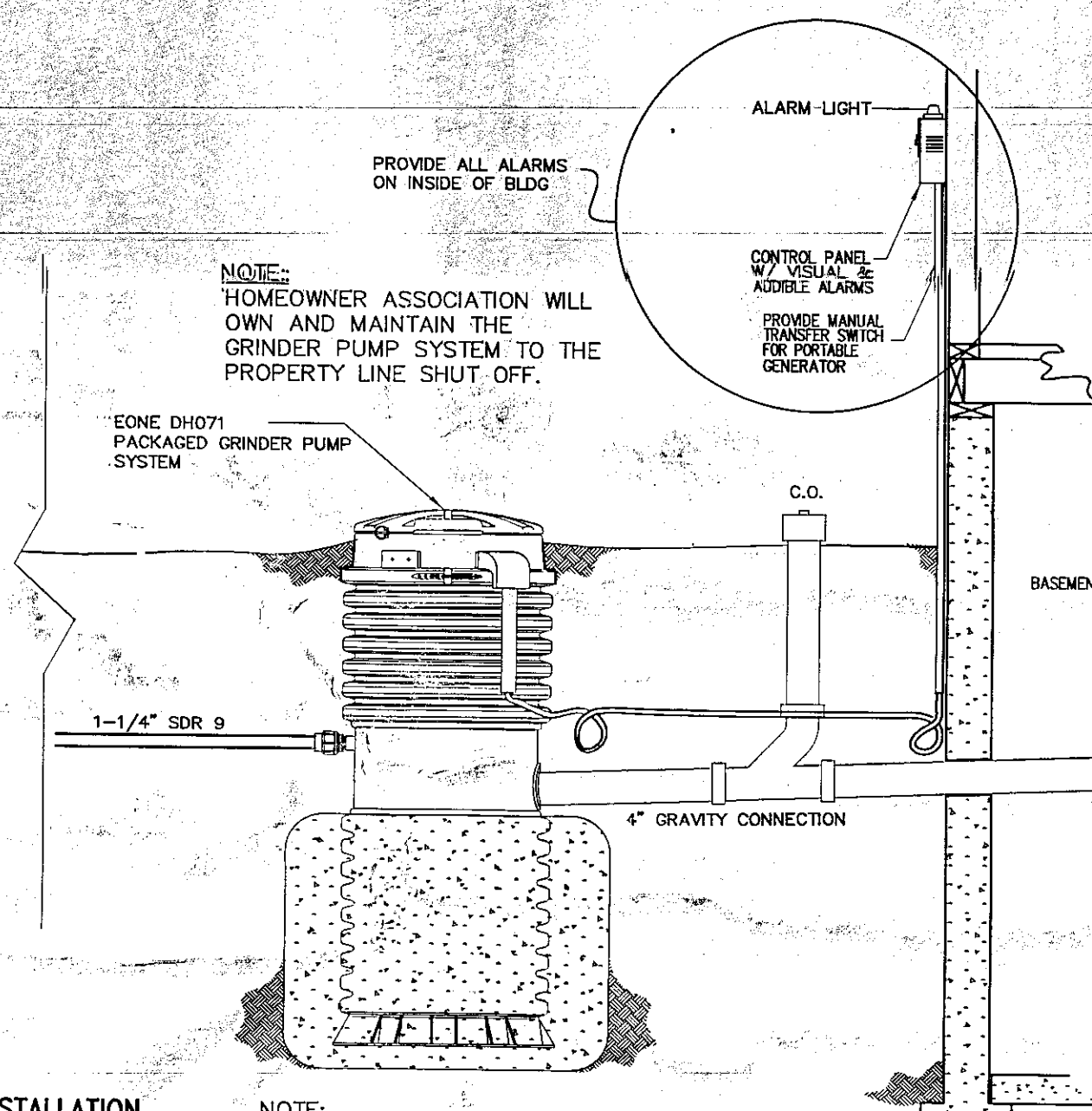
THURST BLOCK DETAILS

- NO SCALE
- 1) CONCRETE NOT TO OVERLAP ANY JOINT.
 - 2) CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.
 - 3) FOR REDUCERS USE MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.

HORIZONTAL SEPARATION: 10\"/>

WATER & SANITARY SEWER

CLEARANCE & SEPARATION NOTE



TYPICAL GRINDER PUMP INSTALLATION
(EXTERNAL GRINDER PUMP)
(INTERNAL GRINDER PUMP IS NOT ALLOWED)

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FLOW AT THE PROPERTY LINE SHUT OFF AND FINAL START UP OF THE GRINDER PUMP.

SANITARY SEWER

THE CONTRACTOR IS DIRECTED TO COMPLY WITH THE TOWN OF BETHLEHEM STANDARD SPECIFICATIONS WHEN INSTALLING THE SANITARY SEWER LATERALS, SANITARY SEWER COLLECTOR, AND MODIFYING EXISTING SANITARY SEWER FACILITIES. THE TOWN OF BETHLEHEM SHALL BE NOTIFIED 48 HOURS PRIOR TO UNDERTAKING ANY WORK ON SANITARY SEWER FACILITIES (EXISTING OR PROPOSED) IN NO CASE WILL SUMP PUMPS, ROOF DRAINS OR FOOTING DRAINS BE ALLOWED TO BE CONNECTED INTO THE SANITARY LINE. A PERMIT IS REQUIRED PRIOR TO INSTALLATION OF ANY SANITARY SEWER APPURTENANCES.

1. VERTICAL SEPARATION- MINIMUM 18\"/>

WATER SUPPLY

ALL WATER LINES SHALL BE 5 FEET DEEP FROM FINISHED GRADE TO THE TOP OF THE PIPE AS A MINIMUM. THE CONTRACTOR SHALL CONSTRUCT THE WATER LINE SO THAT ALL CROSSING WITH OTHER UTILITIES HAVE THE REQUIRED CLEARANCES. INVERTS AT THE WATER AND SEWER CROSSINGS ARE NOTED ON THE PLANS.

WATER LINES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER.

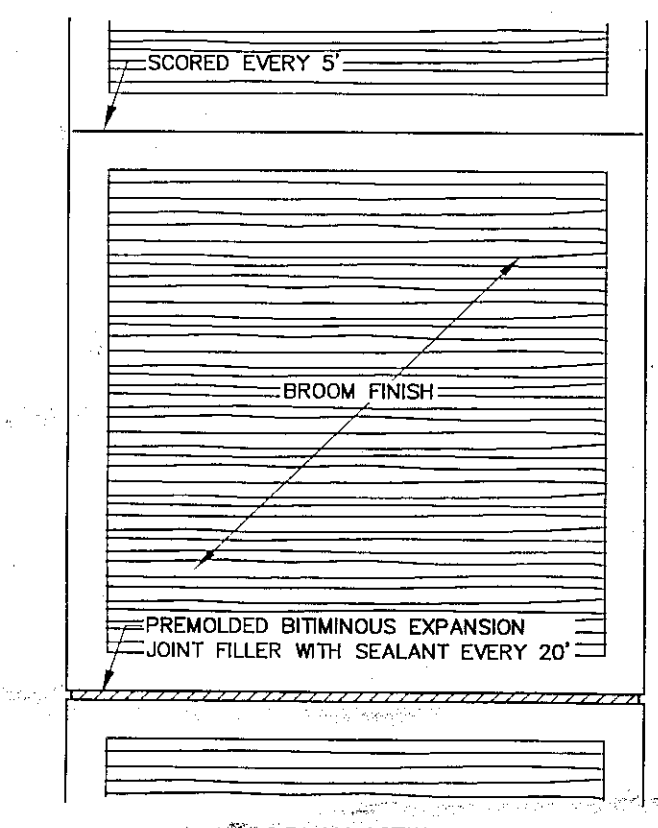
THE CONTRACTOR IS DIRECTED TO COMPLY WITH CLIFTON PARK WATER AUTHORITY (CPWA) STANDARD SPECIFICATIONS, AND REQUIREMENTS OF THE N.Y.S. DEPARTMENT OF HEALTH FOR INSTALLATION OF WATER MAINS. THE CPWA AND THE ENGINEER ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO UNDERTAKING WORK ON WATER FACILITIES.

WATER MAINS ARE TO BE INSPECTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651 OR OTHER METHOD ACCEPTABLE TO THE CPWA.

WATER MAINS AND APPURTENANCES ARE TO BE INSPECTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD FOR DISINFECTING WATER MAINS, C-651-92, WITH THE EXCEPTION OF SECTION 5.1, "TABLET METHOD".

PRESSURE TESTING PROCEDURES FOR THE WATER MAINS WILL COMPLY WITH THE TOWN OF CLIFTON PARK WATER DISTRICT, AND WITH AWWA STANDARD C-600, LATEST EDITION.

CHLORINATED WATER GENERATED FROM THE WATERMAIN DISINFECTION PROCESS WILL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE TOWN OF CLIFTON PARK WATER DISTRICT AND NYDEC.



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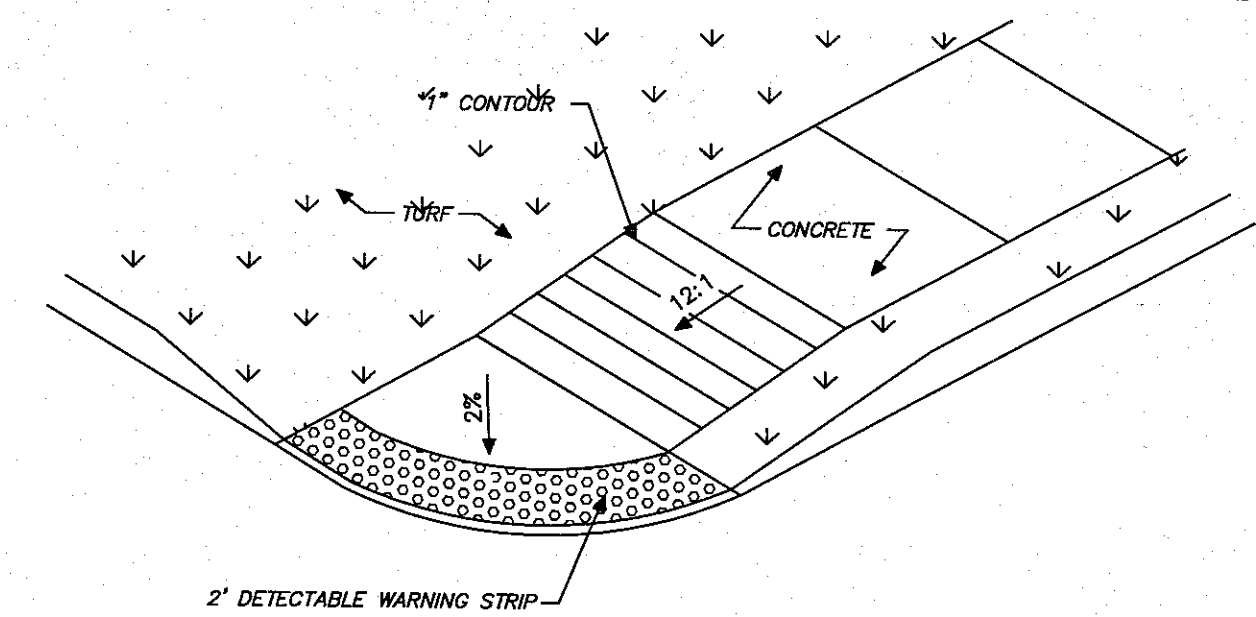
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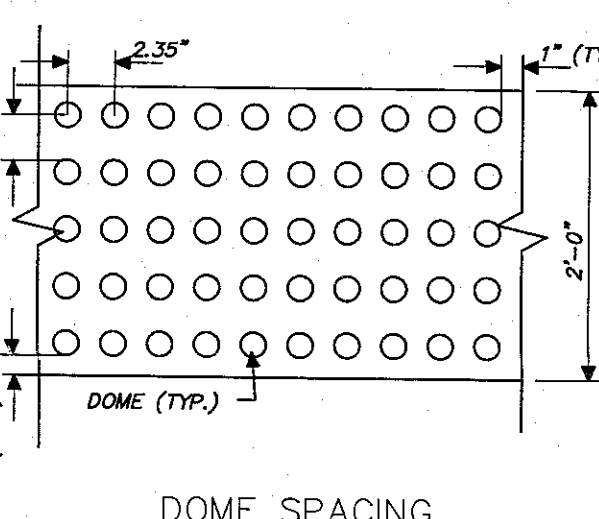
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- SIDEWALK HANDICAP ACCESS CRITERIA
1. THE MAXIMUM SLOPE OF A SIDEWALK HANDICAP ACCESS IN NEW CONSTRUCTION SHALL BE 1:12.
 2. THE MINIMUM WIDTH OF A SIDEWALK HANDICAP ACCESS SHALL BE FIVE FEET, EXCLUSIVE OF FLARED SIDES.
 3. ALL SIDEWALK HANDICAP ACCESS SHALL HAVE FLUSH SMOOTH TRANSITIONS TO THE ADJACENT STREET OR HIGHWAY SURFACE.
 4. DETECTABLE WARNINGS SHALL BE INSTALLED THE FULL WIDTH AND DEPTH OF THE RAMP PER A.D.A. STANDARDS.

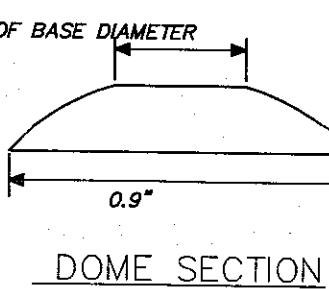


SIDEWALK HANDICAP ACCESS

NO SCALE



DOME SPACING



DOME SECTION

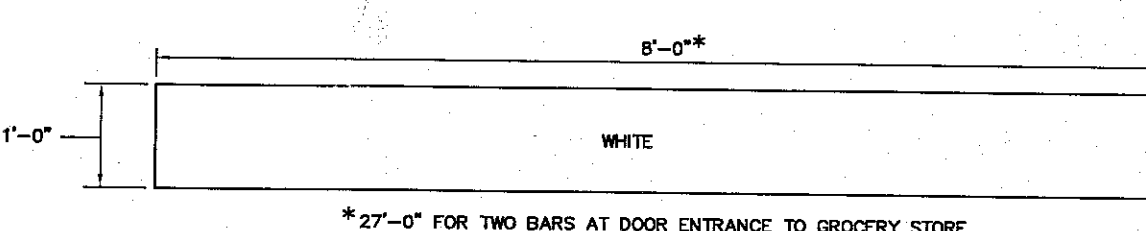
NYSDOT DETECTABLE WARNING STRIP DETAIL

NO SCALE

WARNING STRIP TO CONTRAST VISUALLY WITH ADJACENT SURFACES. EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (AASAC, Section 4.29.2)

ON SITE CROSSWALK DETAIL

NOTE: 1. ALL CROSSWALK MARKINGS SHALL BE WHITE.



ON SITE STOP BAR PAINT STRIPING DETAIL

NO SCALE

ON SITE TRAFFIC CONTROL SIGN DETAIL

NO SCALE

NOTE: 1. ALL POSTS SHALL BE OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT \"MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES\" FOR STREETS AND HIGHWAYS.

2. ALL POSTS SHALL BE EMBEDDED 4\"/>

3. ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT AND HOLES PUNCHED AND DRILLED BEFORE GALVANIZING. GALVANIZING SHALL BE IN CONFORMANCE WITH CURRENT A.S.T.M. SPECIFICATION A123-90 FOR LATEST REVISION.

4. POSTS MAY BE STEEL, ALUMINUM OR TWO-PIECE U-POST IN CONFORMANCE WITH THE NOTES BELOW.

5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBERS AS SHOWN ON THIS DETAIL AND DIRECTIONAL SIGN SHEET.

6. ADJACENT STEEL POSTS SHALL NOT BE CLOSER THAN 8\"/>

7. ADJACENT STEEL POSTS CLOSER THAN 8\"/>

8. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4\"/>

9. ALL TRAFFIC AND PEDESTRIAN SIGNAGE AND LOCATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALL CURRENT AMENDMENTS.

DETAILS AND STANDARDS

THE CONTRACTOR IS REQUIRED TO CONFORM TO THE TOWN OF BETHLEHEM DETAILS AND STANDARDS.

SHOP DRAWINGS REQUIRED FOR ALL STRUCTURES AND MATERIALS

NO.	REVISION	DATE	BY	DATE	BY
1	PRELIMINARY PLANS	1/19/12	TCA	1/19/12	TCA
2	TOWN & DE COMMENTS	2/29/12	TCA	2/29/12	TCA
3	TOWN & DE COMMENTS	3/14/12	TCA	3/14/12	TCA
4	TOWN & DE COMMENTS	4/26/12	TCA	4/26/12	TCA
5	TOWN & DE COMMENTS	5/21/12	TCA	5/21/12	TCA
6	TOWN & DE COMMENTS	7/9/12	TCA	7/9/12	TCA
7	TOWN & DE COMMENTS	7/23/12	TCA	7/23/12	TCA
8	ENGINEERING COMMENTS	8/16/12	TCA	8/16/12	TCA
9	FINAL STAMPING PLAN	8/17/12	TCA	8/17/12	TCA

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

ALBANY COUNTY DEPT. OF HEALTH

CONSTRUCTION DETAILS
LEGENDS PRESERVE
CONSERVATION SUBDIVISION
JOLLEY ROAD

TOWN OF BETHLEHEM COUNTY OF ALBANY

STATE OF NEW YORK

ABD ENGINEERS & SURVEYORS

411 Union Street, Schenectady, N.Y. 12305

518-377-0315 Fax 518-377-0379

DATE: OCTOBER 1, 2012 SCALE: NONE DWS: 2833-SITE SHEET: 20 OF 21