

JANUARY 27, 2025

INDEX TO DRAWINGS

TYPICAL DETAILS

KEY PLAN

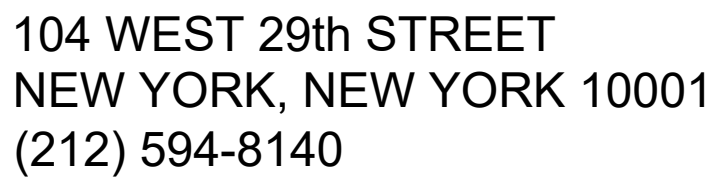
SCALE: N.T.S.

REF: GIS VIEWER, SUFFOLK COUNTY, NY



SCALE: N.T.S

REF: USGS SOUTHDOLD, NY AND GREENPORT, NY (2023



Warning: It is a violation of the NYS Education Law Article 145 for any person, unless he/she is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

Altered By: _____

Signature: _____

Description of Alteration: _____


CHECKED BY: PDM	DRAWING
SCALE: AS NOTED	S-001.00
REVISION NO.	SHEET NO. 1 OF 5
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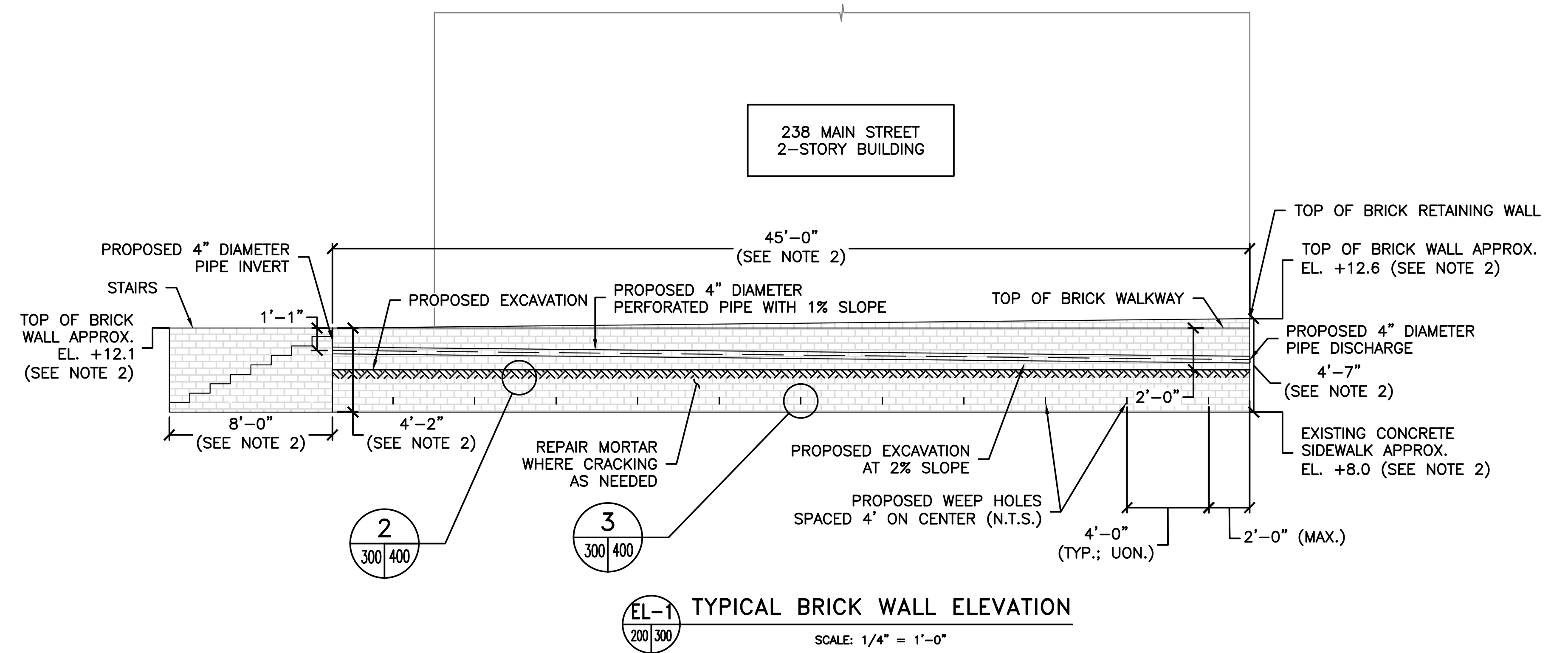
1. DIMENSIONS AND ELEVATIONS OF EXISTING CONDITIONS SHOWN ARE BASED ON FIELD OBSERVATIONS AND MEASUREMENTS OBTAINED BY GZA ON OCTOBER 31, 2024.
2. ELEVATIONS SHOWN ON THESE DRAWINGS ARE PROVIDED IN FEET AND ARE REFERENCED TO THE NAVD88 DATUM WHICH CONSIDERS THE TOP OF EXISTING SIDEWALK GRADE EL.=8.0'.
3. ALL REQUIRED PERMITS AND APPROVALS SHALL BE OBTAINED PRIOR TO CONSTRUCTION. NOTIFICATIONS TO MUNICIPALITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION SHALL BE DONE AS REQUIRED AND IN ACCORDANCE WITH GOVERNING REGULATIONS.
4. REPORT ANY CHANGES IN CONTRACT DOCUMENTS SO THAT THE EFFECT ON THE RETAINING WALL DESIGN CAN BE EVALUATED.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.
6. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE FEDERAL REGISTER BY THE DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, 29 CFR PART 1926, FOR EXCAVATIONS. CONTRACTOR SHALL INSTALL ALL ANCILLARY ITEMS SUCH AS HANDRAILS WHICH ARE REQUIRED BY OSHA BUT NOT SHOWN ON THE DRAWINGS.
7. CONTRACTOR SHALL MANAGE SURFACE WATER SUCH THAT WATER DOES NOT DISTURB SUBGRADES.

1. **DRAINAGE ELEMENTS:**
 - 1.1. ALL BACKFILL MATERIAL SHALL BE FREE-DRAINING CRUSHED AGGREGATE, CONTAINING UP TO 5 PERCENT BY WEIGHT MATERIAL PASSING THROUGH NO. 4 SIEVE AND A MAXIMUM PARTICLE SIZE OF 1 INCH. THE GRADATION SHOULD BE SUBMITTED TO GZA FOR REVIEW.
 - 1.2. PERFORATED DRAINAGE PIPE SHALL BE 4" DIAMETER POLYVINYL CHLORIDE PIPE (PVC) WITH 6 TO 12 HOLES PER FOOT, OR APPROVED EQUIVALENT.
 - 1.3. FILTER FABRIC MATERIAL CUT SHEET SHALL BE SUBMITTED TO GZA FOR REVIEW.
2. **RETAINING WALL REPAIR ELEMENTS:**
 - 2.1. ALL DOWELS SHALL BE $\frac{5}{8}$ " DIA. ASTM A36 THREADED RODS, OR APPROVED EQUIVALENT.
 - 2.2. ALL EPOXY FOR DOWELS SHALL BE HILTI-HIT RE 500 V3 EPOXY, OR APPROVED EQUIVALENT.
 - 2.3. ALL MORTAR, GROUT, AND CEMENT MIXTURES MUST BE SUBMITTED TO GZA FOR REVIEW.

1. FIELD LOCATE ALL UTILITIES AND EXISTING STRUCTURES WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION AND SUPPORT OR RELOCATE AS REQUIRED. NOTIFY GZA SO THAT ANY EFFECTS ON THE DESIGN MAY BE EVALUATED AND THE DESIGN MODIFIED AS REQUIRED. CONTACT GZA IF ADDITIONAL TEMPORARY UTILITY/STRUCTURE SUPPORT IS REQUIRED.
2. CONFIRM THAT APPLICABLE AGENCIES ARE NOTIFIED AND REQUIRED APPROVALS/PERMITS OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY HISTORICAL/LANDMARKED STRUCTURES IN THE VICINITY OF PROPOSED CONSTRUCTION AREA SHOULD BE CHECKED AND APPLICABLE AGENCIES SHOULD BE NOTIFIED IF REQUIRED.
3. WEEP HOLE INSTALLATION SEQUENCE:
 - 3.1. IDENTIFY WEEP HOLE LOCATIONS ON RETAINING WALL. WEEP HOLES SHALL BE APPROXIMATELY 6-INCHES FROM THE BASE OF THE WALL AND SPACED 4- FEET ON CENTER, AS SHOWN ON SHEET S-300. WEEP HOLE SPACING MAY BE SLIGHTLY ADJUSTED BASED ON BRICK DIMENSIONS. CONFIRM MODIFIED LOCATIONS WITH GZA (IF APPLICABLE) PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - 3.2. CAREFULLY CHIP, DRILL AND SHAVE OFF MORTAR BETWEEN BRICKS WHERE WEEP HOLES WILL BE INSTALLED. PENETRATE ALL BRICK WYTHES AND CONFIRM WEEP HOLE MAKES CONTACT WITH RETAINED SOIL.
 - 3.3. CLEAR SEDIMENTS AND OBSTRUCTIONS FROM WEEP HOLE.
 - 3.4. INSTALL STAINLESS STEEL BRICK WEEP HOLE COVERS PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
4. DRAINAGE PIPE INSTALLATION SEQUENCE:
 - 4.1. DEMOLISH EXISTING BRICK PAVEMENT AND EXCAVATE 2 FEET OF SOIL USING HAND TOOLS. PREPARE AND INSPECT SUBGRADE BY CLEARING LOOSE SOILS, DEBRIS, AND/OR OBSTRUCTIONS, PUMPING OUT SURFACE WATER, AND COMPACT USING HAND TAMPING EQUIPMENT.
 - 4.2. PREP AND INSTALL FILTER FABRIC ACROSS ENTIRE SUBGRADE PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. INSTALL 6" LOOSE LIFT OF CRUSHED STONE, OR APPROVED EQUIVALENT, AND COMPACT UNTIL IT IS DENSE AND UNYIELDING USING HAND TAMPING EQUIPMENT.
 - 4.3. INSTALL THE 4" DIAMETER PERFORATED POLYVINYL CHLORIDE PIPES (PVC). THE PERFORATED PVC PIPE SHALL BE INSTALLED WITH A MINIMUM 1% PITCH SLOPING DOWN FROM NORTH TO SOUTH ALONG THE ENTIRE LENGTH OF THE RETAINING WALL. THE DISCHARGE LOCATION SHALL BE EXCAVATED ON THE SOUTH FACE OF THE WALL AND APPROXIMATELY 6" ABOVE THE BOTTOM OF INSTALLATION.
 - 4.4. PLACE CRUSHED STONE IN 6" THICK LOOSE LIFTS AND CAREFULLY COMPACT UNTIL IT IS DENSE AND UNYIELDING USING HAND TAMPING EQUIPMENT. THE PERFORATED DRAINING PIPES, AND ADJACENT BRICK WALL AND BUILDING FOUNDATION WALL SHALL NOT BE DAMAGED DURING THE REMAINING FILL PLACEMENT AND COMPACTION.
 - 4.5. RESTORE BRICK SURFACE.
5. RETAINING WALL REPAIR SEQUENCES:
 - 5.1. BRICK RETAINING WALL
 - 5.1.1. LOCATE CRACKED SURFACE(S) AND PREP AND CLEAN SURROUNDING AREA.
 - 5.1.2. FOR CRACKS THAT ARE THROUGH WALLS, REPLACE ALL WYTHES OF BRICK ON EACH SIDE OF THE CRACK TO FIRST MORTAR JOINT.
 - 5.1.3. FOR CRACKS THAT ARE ONLY IN OUTER WYTHE, REPLACE ONLY OUTER WYTHE.
 - 5.1.4. FOR CRACKS THAT ARE OPEN AND $\frac{1}{4}$ " OR LESS AND IS ONLY PRESENT IN OUTER WYTHE AND ONLY IN JOINTS, RAKE AND REPOINT JOINTS ONLY.
 - 5.1.5. REPLACE LOOSE AND CRACKED BRICKS.
 - 5.2. CONCRETE RETAINING WALL
 - 5.2.1. LOCATE CRACKED SURFACE(S) AND PREP AND CLEAN SURROUNDING AREA.
 - 5.2.2. SAWCUT AROUND THE EXISTING CRACK(S) TO FACILITATE REINFORCING BAR INSTALLATION. #5 REINFORCING BARS SHALL BE SPACED 6" ON CENTER AND BE EMBEDDED 6" FROM THE EDGE OF THE CRACK(S) ON EACH SIDE. REINFORCING BARS SHALL BE SECURED USING HILTI-HIT RE 500 V3 EPOXY, OR APPROVED EQUIVALENT.
 - 5.2.3. AFTER EPOXY HAS CURED, FILL IN VOID WITH MORTAR OR CEMENT MIX. FINISHED SURFACE TO MATCH EXISTING CONCRETE WALL SURFACE.

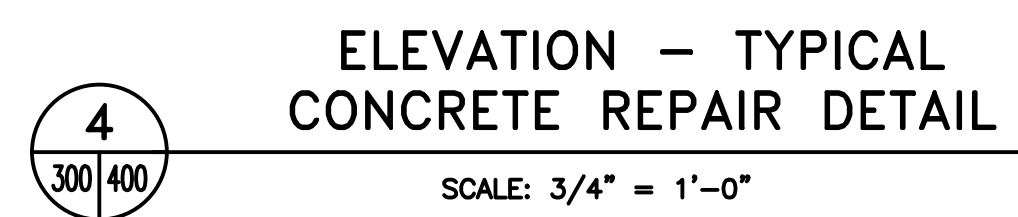
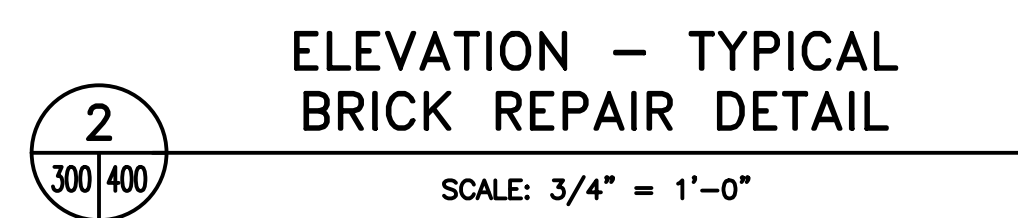
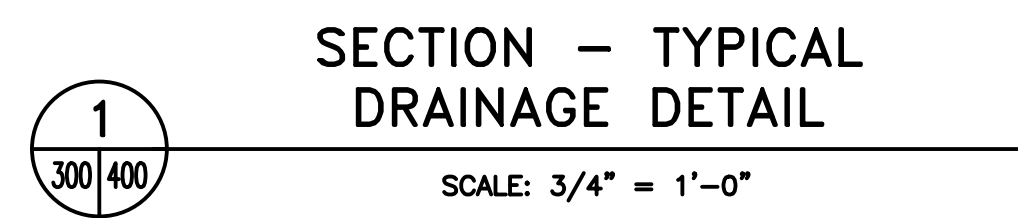
1. CLEAN 4" DIAMETER PERFORATED PVC DRAINAGE PIPES AND WEEP HOLES AS REQUIRED TO AVOID SEDIMENT BUILDUP AND DRAIN CLOGGING.
2. CHECK VEGETATION IN VICINITY OF RETAINING WALLS AND REMOVE AS REQUIRED.
3. PERIODICALLY CHECK THE STABILITY OF MORTAR BETWEEN BRICKS AND THE CONCRETE REINFORCING BAR REPAIR ALONG RETAINING WALLS.

1	ISSUED FOR REVIEW	PM	1/27/2025
NO.	ISSUE/DESCRIPTION	BY	DATE
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<p>238 MAIN STREET GREENPORT, NEW YORK</p>			
<p>NOTES</p> <p>RETAINING WALL REPAIR DRAWINGS</p>			
<p>PREPARED BY: GZA GeoEnvironmental  104 West 29th Street, 10th Floor New York, New York 10001 (212) 594-8140</p>		<p>PREPARED FOR: STONEFIELD ENGINEERING AND DESIGN 584 BROADWAY, SUITE 310 NEW YORK, NY</p>	
<p>PROJ. MGR: TSS DESIGNED BY: NW DATE: JANUARY, 2025</p>	<p>REVIEWED BY: TSS DRAWN BY: NW PROJECT NO. 01.01636360</p>	<p>CHECKED BY: PDM SCALE: AS NOTED REVISION NO. --</p>	<p>DRAWING S-100.00 SHEET NO. 2 OF 5</p>



1. SEE DWGS S-100 FOR GENERAL NOTES, MATERIAL NOTES, AND GENERAL CONSTRUCTION SEQUENCE.
2. DIMENSIONS AND ELEVATIONS OF EXISTING CONDITIONS SHOWN ARE BASED ON FIELD OBSERVATIONS AND MEASUREMENTS OBTAINED BY GZA ON OCTOBER 31, 2024. ELEVATIONS OBTAINED FROM USGS TOPOGRAPHIC MAP, DATUM NAVD 88.
3. SURFACE WATER DRAINAGE SHALL BE ADDRESSED BY THE CONTRACTOR DURING CONSTRUCTION.
4. INFORM GZA IF THE EXISTING BUILDING AND WALL ELEVATION VARIES FROM THAT SHOWN.

1	ISSUED FOR REVIEW			PM	1/27/2025		
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<p style="text-align: center;">238 MAIN STREET, GREENPORT, NY</p> <h3 style="text-align: center;">TYPICAL SECTIONS AND DETAIL RETAINING WALL REPAIR DRAWINGS</h3>							
PREPARED BY: GZA GeoEnvironmental of New York 104 West 29th Street, Fifth Floor New York, New York 10001 (212) 594-6140				PREPARED FOR: STONEFIELD ENGINEERING AND DESIGN 584 BROADWAY, SUITE 310 NEW YORK, NY			
PROJ MGR: TSS		REVIEWED BY: TSS		SCHEDULED BY: PDM		<div>DRAWING</div> <div style="font-size: 2em; font-weight: bold; margin-top: -10px;">S-300.00</div> <div>SHEET NO. 4 OF 5</div>	
DESIGNED BY: NW		DRAWN BY: NW		CHECKED AS: NOTED			
DATE: January, 2025		PROJECT NO: 41.0163360.00		REVISION NO: --			

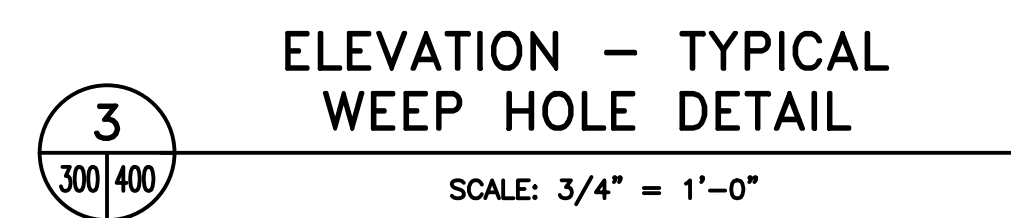


SECTION - ALTERNATE DRAINAGE DETAIL

ALT 1

300 400

SCALE: 3/4" = 1'-0"




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238 MAIN STREET
GREENPORT, NEW YORK

TYPICAL DETAILS
RETAINING WALL REPAIR DRAWINGS

PREPARED BY: GZA GeoEnvironmental  of New York 104 West 29th Street, 1001 Floor New York, New York 10001 (212) 594-8140	PREPARED FOR: STONEFIELD ENGINEERING AND DESIGN 584 BROADWAY, SUITE 310 NEW YORK, NY
PROJ. MGR: TSS DESIGNED BY: NW DATE: JANUARY, 2025	CHECKED BY: PDM SCALE: AS NOTED REVISION NO. -- TSS REVIEWED BY: TSS DRAWN BY: TSS PROJECT NO. 41.01636300

DRAWING
\$-400.00
SHEET NO. 5 OF 5