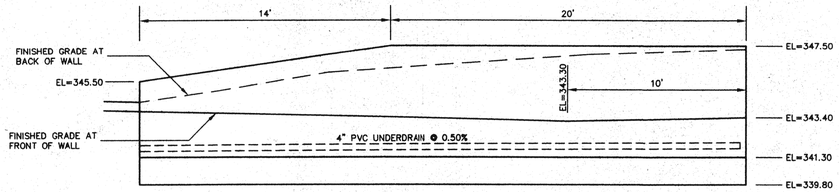
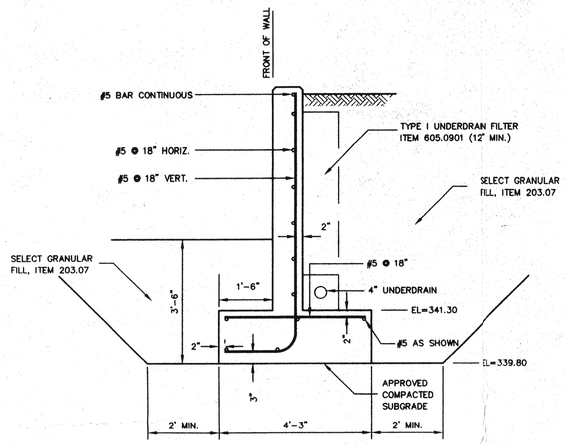


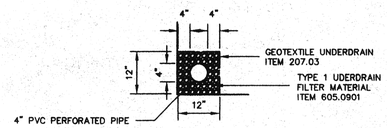
WALL ELEVATION

SCALE: 1/4" = 1'0"



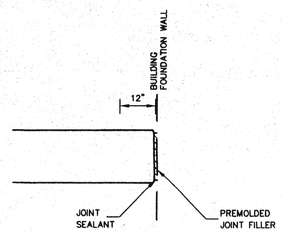
TYPICAL WALL SECTION

SCALE: 1/2" = 1'0"



UNDERDRAIN DETAIL

NOT TO SCALE



VERTICAL EXPANSION JOINT

NOT TO SCALE

CANTILEVER RETAINING WALL NOTES:

1. ALL POURED IN PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (LATEST EDITION), GRADE 60.
3. LONGITUDINAL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN CONSTRUCTION JOINTS.
4. VERTICAL CONTROL JOINTS SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS.
5. FOOTINGS SHALL BEAR UPON APPROVED COMPACTED SUBGRADE CAPABLE OF SUPPORTING A MINIMUM OF 3,000 PSF AS DETERMINED BY THE SOILS ENGINEER. IF BEARING PRESSURE CANNOT BE ACHIEVED THEN THE ENGINEER SHALL BE ADVISED FOR RESOLUTION.
6. WALLS SHALL NOT BE BACKFILLED UNTIL A MINIMUM OF 85% OF COMPRESSIVE STRENGTH IS ACHIEVED. THE BACKFILL TIME MAY BE REDUCED BASED ON TEST CYLINDER COMPRESSIVE STRENGTH RESULTS AND AS PERMITTED BY THE ENGINEER.
7. THE GENERAL BACKFILL PLACED BEHIND THE RETAINING WALLS SHALL BE GRANULAR SOIL, SAND AND GRAVEL CONTAINING LESS THAN 20% SILT AND SHALL BE PLACED IN LAYERS NOT TO EXCEED ONE (1) FOOT THICK. EACH LAYER SHALL BE COMPACTED USING A HAND GUIDED VIBRATORY COMPACTOR TO 92% MAXIMUM MODIFIED DENSITY (ASTM D 1557). EXCESSIVE COMPACTION ADJACENT TO THE RETAINING WALL SHALL BE AVOIDED. ALL LAYERS SHALL BE TESTED AND APPROVED PRIOR TO THE PLACEMENT OF SUBSEQUENT LAYERS. LARGE COMPACTION EQUIPMENT SHALL NOT BE USED WITHIN 10 FEET OF THE NEW WALLS TO PREVENT POTENTIAL DAMAGE TO THE WALLS. THE USE OF EXCAVATED MATERIAL AS BACKFILL WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE SOILS ENGINEER.
8. EXISTING FILL WHERE ENCOUNTERED AT OR BELOW THE FOUNDATION OR BASE BEARING ELEVATION SHALL BE COMPLETELY REMOVED FROM BENEATH THE WALL AND REPLACED WITH NEW COMPACTED FILL. NEW COMPACTED FILL SHALL BE CLEAN SAND AND GRAVEL CONTAINING LESS THAN 20% SILT MEETING WITH THE APPROVAL OF THE SOILS ENGINEER. NEW COMPACTED FILL SHALL BE PLACED IN 6- TO 12-INCH LAYERS COMPACTED TO 95% MAXIMUM MODIFIED DENSITY.
9. ALL LAP SPLICES SHALL BE A MINIMUM OF 36 INCHES.

Concrete Retaining Wall – Design Data Table

Item	Section #C1-A
1. Stem Design Height	6'-3"
2. Footing Thickness	1'-6"
3. Stem Thickness ("T")	10"
4. fc'	4,000 psi
5. Fy	60,000 psi
6. Allowable Bearing Pressure (Minimum)	3,000 psf
7. Backfill Soil Unit Weight	125 pcf
8. Soil Friction Angle	32°
9. Surcharge	None
10. Ftg/Soil Friction (Coef. of Friction)	0.35 (On Soil)
11. Footing Width ("W")	4'-3"
12. Toe Projection ("P")	1'-6"

NO.	REVISION	DATE
1	SUBMITTED FOR AMENDED SPA	12/19/01

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534 FURNACE DOCK ROAD

AMENDED SITE PLAN APPROVAL

Town of Cortlandt, NY

TITLE:

RETAINING WALL DETAILS

STATE OF NEW YORK · NICKLAS F. PANAYOTOU · NO. 43563 · LICENSED PROFESSIONAL ENGINEER

NICKLAS F. PANAYOTOU, PE
NY PE 43563

SCALE:	AS SHOWN
DATE:	12/19/01
DRAWN BY:	AutoCAD
CHECKED BY:	NFP
PROJECT:	31825
DRAWING NO.:	C-6

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