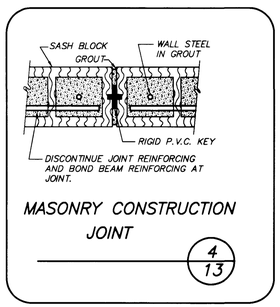
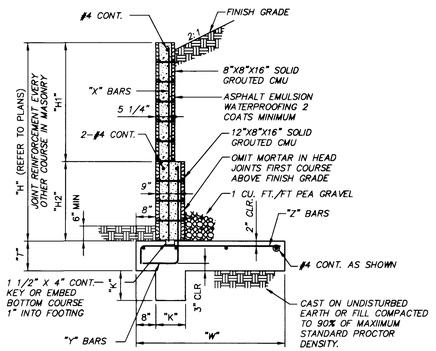


MASONRY CONSTRUCTION JOINT

4
13



RETAINING WALL SCHEDULE

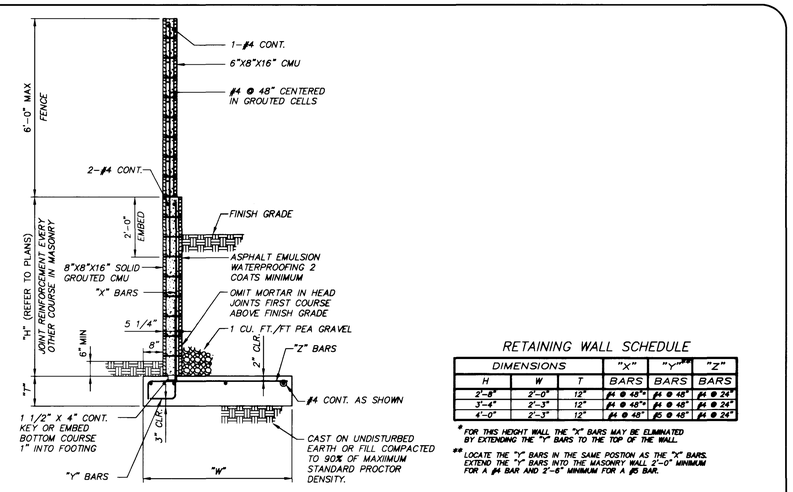
DIMENSIONS						"X"	"Y"**	"Z"
H	H1	H2	W	T	K	BARS	BARS	BARS
2'-8"	2'-8"	–	2'-8"	12"	–	#4 @ 48"*	#4 @ 48"*	#4 @ 24"
3'-4"	3'-4"	–	2'-0"	12"	8"	#4 @ 48"*	#4 @ 48"*	#4 @ 24"
4'-0"	4'-0"	–	2'-4"	12"	8"	#4 @ 48"	#4 @ 24"*	#4 @ 24"
4'-8"	4'-8"	–	2'-9"	12"	12"	#4 @ 48"	#5 @ 16"*	#4 @ 16"
5'-4"	5'-4"	–	3'-4"	12"	12"	#4 @ 48"	#4 @ 24"	#4 @ 24"
6'-0"	6'-0"	–	4'-0"	12"	12"	#4 @ 48"	#5 @ 24"	#5 @ 24"

* FOR THIS HEIGHT WALL THE "X" BARS MAY BE ELIMINATED BY EXTENDING THE "Y" BARS TO THE TOP OF THE WALL.

** WHEN "H2" DOES NOT EXIST LOCATE THE "Y" BARS IN THE SAME POSITION AS THE "X" BARS. EXTEND THE "Y" BARS INTO THE MASONRY WALL 2'-0" MINIMUM FOR A #4 BAR AND 2'-6" MINIMUM FOR A #5 BAR.

TYPE 2 RETAINING WALL SECTION

2
13



RETAINING WALL SCHEDULE

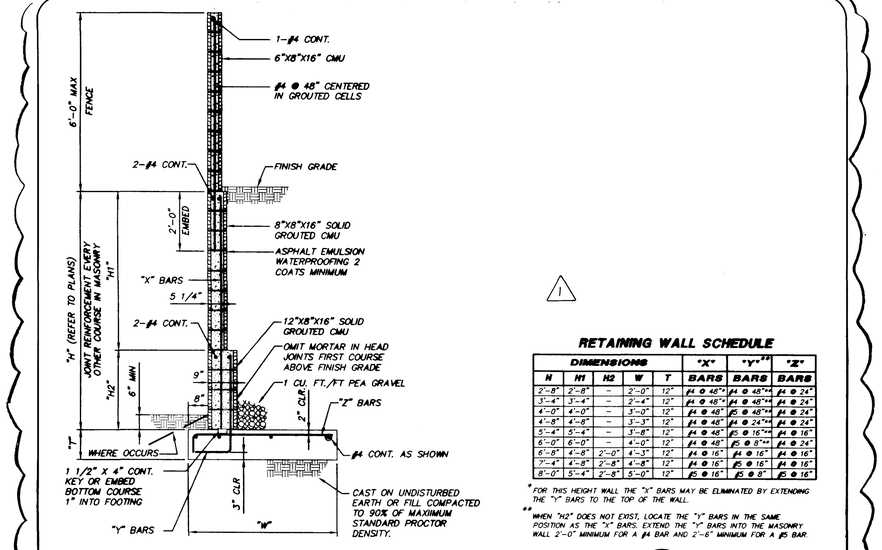
DIMENSIONS		"X"	"Y"**	"Z"
H	W	T	BARS	BARS	BARS
2'-8"	2'-0"	12"	#4 @ 48"*	#4 @ 48"	#4 @ 24"
3'-4"	2'-3"	12"	#4 @ 48"*	#4 @ 48"	#4 @ 24"
4'-0"	2'-3"	12"	#4 @ 48"	#5 @ 48"	#4 @ 24"

* FOR THIS HEIGHT WALL THE "X" BARS MAY BE ELIMINATED BY EXTENDING THE "Y" BARS TO THE TOP OF THE WALL.

** LOCATE THE "Y" BARS IN THE SAME POSITION AS THE "X" BARS. EXTEND THE "Y" BARS INTO THE MASONRY WALL 2'-0" MINIMUM FOR A #4 BAR AND 2'-6" MINIMUM FOR A #5 BAR.

TYPE 5 RETAINING WALL SECTION

3
13



RETAINING WALL SCHEDULE

DIMENSIONS					"X"	"Y"**	"Z"
H	H1	H2	W	T	BARS	BARS	BARS
2'-8"	2'-8"	–	2'-0"	12"	#4 @ 48"*	#4 @ 48"*	#4 @ 24"
3'-4"	3'-4"	–	2'-4"	12"	#4 @ 48"*	#4 @ 48"*	#4 @ 24"
4'-0"	4'-0"	–	3'-0"	12"	#4 @ 48"	#5 @ 48"*	#4 @ 24"
4'-8"	4'-8"	–	3'-3"	12"	#4 @ 48"	#4 @ 24"*	#4 @ 24"
5'-4"	5'-4"	–	3'-8"	12"	#4 @ 48"	#5 @ 16"*	#4 @ 16"
6'-0"	6'-0"	–	4'-0"	12"	#4 @ 48"	#5 @ 8"*	#4 @ 24"
6'-8"	4'-8"	2'-0"	4'-3"	12"	#4 @ 16"	#4 @ 16"	#4 @ 16"
7'-4"	4'-8"	2'-8"	4'-8"	12"	#4 @ 16"	#5 @ 16"	#4 @ 16"
8'-0"	5'-4"	2'-8"	5'-0"	12"	#5 @ 16"	#5 @ 8"	#5 @ 16"

* FOR THIS HEIGHT WALL THE "X" BARS MAY BE ELIMINATED BY EXTENDING THE "Y" BARS TO THE TOP OF THE WALL.

** WHEN "H2" DOES NOT EXIST, LOCATE THE "Y" BARS IN THE SAME POSITION AS THE "X" BARS. EXTEND THE "Y" BARS INTO THE MASONRY WALL 2'-0" MINIMUM FOR A #4 BAR AND 2'-6" MINIMUM FOR A #5 BAR.

TYPE 1 RETAINING WALL SECTION

1
13

NOTES:

1. MASONRY UNITS SHALL BE ASTM C-90, GRADE N-1 HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS: f'm = 1500 PSI (HALF STRESSES ARE USED UNLESS SPECIAL INSPECTION IS CALLED FOR.)
2. MORTAR SHALL BE ASTM C270, TYPE "M" OR "S", WITH A MINIMUM STRENGTH OF 1800 psi AT 28 DAYS.
3. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2000 PSI AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150.
4. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150. (DESIGN BASED ON fc = 2500 psi, WITH NO SPECIAL INSPECTION).
5. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
6. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL CONFORM TO THE UNIFORM BUILDING CODE, LATEST EDITION, AND PER STANDARD SPECIFICATIONS FOR THE CITY OF LAS VEGAS, NEVADA.
7. SOLID GROUT ALL MASONRY UNITS BELOW HIGHEST FINISH GRADE AT THE WALL.
8. ALL WALLS ARE SUBJECT TO APPROVAL BY THE CITY OF LAS VEGAS, NEVADA BUILDING DEPARTMENT.
9. WALLS SHALL BE STEPPED ONLY AS SHOWN ON THE PLANS.
10. ALL CORNERS OR ANGLES SHALL BE TIED TOGETHER WITH REINFORCING STEEL AND GROUTED SOLID.
11. HORIZONTAL JOINT REINFORCING SHALL BE 9-GA. LADDER TYPE WITH LAP SPLICES OF 12" MINIMUM. INCLUDING CORNERS AND INTERSECTIONS
12. BOND BEAMS AND JOINT REINFORCING SHALL NOT BE CONTINUOUS THROUGH WALL CONSTRUCTION JOINTS.
13. WHERE VERTICAL GROUT LIFTS ARE NOT CONTINUOUS FOR THE ENTIRE HEIGHT OF THE WALL, TERMINATE LIFT 1" BELOW TOP OF TOP BLOCK TO FORM A KEY FOR FUTURE LIFTS.
14. LOCATE KEYED JOINT IN RETAINING WALL AT A MAXIMUM SPACING OF 24'-0".
15. BACKFILL BEHIND WALLS SHALL BE COMPACTED TO 90% OF STANDARD PROCTOR DENSITY.
16. IF ACTUAL HEIGHT OF WALL IS NOT LISTED IN TABLE BELOW, USE STEEL AND DIMENSIONS FOR NEXT HIGHEST WALL LISTED.
17. PROJECT SOILS REPORT: TERRACON CONSULTANTS WESTERN, INC.
PROJECT NO. 64965223
JUNE 28, 1996

ALLOWABLE SOILS BEARING PRESSURE = 1500 psf (2000 psf W/18" MIN DEPTH BELOW FINISH GRADE)

SOIL ACTIVE PRESSURE = 35 pcf (LEVEL)
SOIL PASSIVE PRESSURE = 250 psf/ft
COEFFICIENT OF FRICTION = 0.4

REV	DATE	DESCRIPTION	CLV	DATE
1	5/14/96	REV. DETAIL 1/13		

RECOMMENDED FOR APPROVAL — P.E. NO. 8255 — DATE

RUSSELL D. WALLACE — STATE OF NEVADA — PROFESSIONAL ENGINEER

G.C. WALLACE, INC.
Engineering/Architecture
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89102

COLEMAN HOMES
OAK HILLS AT SUMMERLIN
RETAINING WALL DETAILS

SHEET 13 OF 13 SHEETS

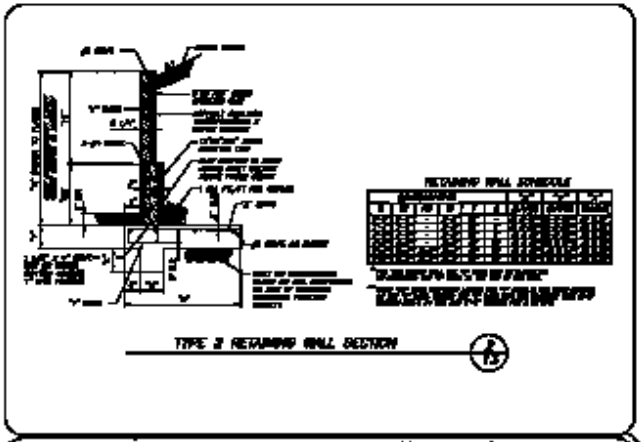
JOB NO. 743.160 PLOTTED: 11/20/97 3:45 pm DRAWING: Ohill-13.dwg BY: R.J.R.

15744

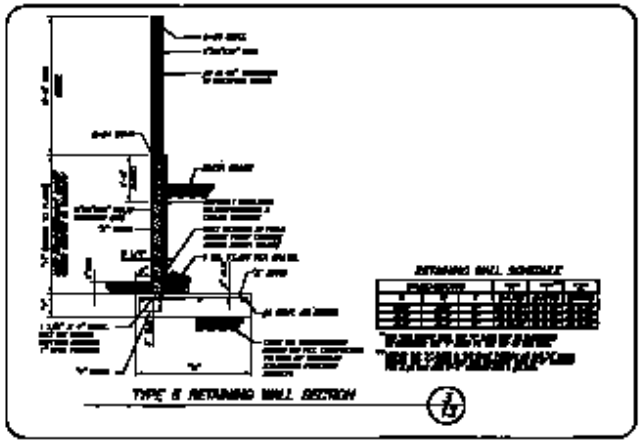
6175 5

107Y-4506-2

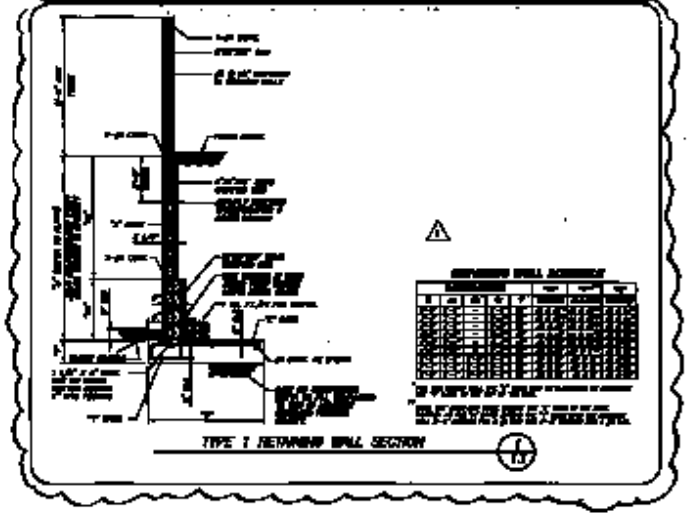
MASONRY CONSTRUCTION JOINT



TYPE 2 RETAINING WALL SECTION



TYPE 5 RETAINING WALL SECTION



TYPE 1 RETAINING WALL SECTION