LAKE HAVASU CITY - DEVELOPMENT SERVICES DEPARTMENT RESIDENTIAL MASONRY RETAINING WALL DESIGN

Applicant												Date					
Address							Legal: Tract						_ Block r			ot	
Retaining: Length Height						t	Slope: None 5:1					4:1_	3:	1	2:1_		
Located in an Easement: No Yes, Utility Approv SUBMIT WITH A FULLY DIMENSIONED SITE PLA SUBMIT WITH A FULLY DIMENSIONED SITE PLA 1- # CONI. 1- # CONI. 2- # 64 JOHN REINI. 6- WIN. 3- 12- 05 CC. EACH WAT AT 9' FTG.									als Attached N AND UTILITY APPROVALS WHEN APPLICABLE 8' BOHD BEAM V/ 1- H CON1. 2- P3 GA JOINT REINF. 0 16' OC. 8' BOHD BEAM V/ 2- H CON1. 2' CLR. (TIP) 3" CL. 6' MIN. 1 3" CL.								
DEPTH OF KEYWAY (dc) WAY BE REDUCED 1' FOR EACH 1' EXCRESSE IN SOIL COVER. DEPTH OF SOIL COVER TO BE MAINTAINED FOR A DISTANCE 'N' MEASURED HORIZONTALLY FROM THE WALL FACE.								FOR he 8' ADO 1- 14 CONT. &									
h	df	bf	SLOPE	HORIZ	5:1	4:1	3:1	2:1	h	dſ	bf	SLOPE	HORIZ	5:1	4:1	3:1	2:1
1'-6"	8.	1'-0"	As dk	#4048 NA	#4048 NA	#4048 NA	#4045 NA	14048 NA	6'-0"	12"	3'-0"	As2	NA NA	NA AA	NA NA	#4024	#4024
2'-0"	9"	1'-4"	As	14048	#4048	#4048	#4048	14048	7'-0"	12-	3'-6"	As2	#4016	#4016	£4016	10° #4016	#4 6 8
2'-6"	9-	1'-4"	dk As	14048	NA #4 048	84048	NA #4048	14048	8'-0'	12*	4'-0"	dk As2	10° #5016	#568	1'-0' #568	1'-0' #5 6 8	1'-3° #608
30.	9"	1'-10"	dk As	NA #4048	NA #4€48	NA 4048	2° ∦4 0 48	3° /4048			L	dk	1'-0' #4024	1'-1" #4024	1'-2" #4024	1'-3"	1'-6
			dk As	NA £4648	2°	2° #4048	3' .#4048	4°	Asi				81021	# 4024	74024	#4024	# 4016
3'-6"	9,	1'-10"	ďk	3.	4"	4.	4*	6*		SYMBOL LEGEND							
4'-0"	g*	1'-10"	As dk	#4048 6	#4 0 48	#4 0 48	∦4048 7°	#4040 8*									
4'-6"	9*	2'-0'	As dk	€4040 6°	#4 0 40	#4040 7°	#4932 8°	#4032 10"	h: TOP OF FOOTING TO TOP OF WALL HEIGHT								
5'-0"	9.	2'-4"	As	#4024	#4024	#4024	#4024	₹4916	df. DEPTH OF FOOTING dk: DEPTH OF KEYWAY								
5'~6"	9*	2'-6'	dk As	7° #5 0 24	8° #5 0 724	8° ∦ 5024	9° #5016	#5 6 8					FOOTING				
		dk g' 10' 11' 11' 1'-1'						db. REINFORCING BAR DIAMETER									
6'-0"	12.	30,	AS dk	7.	8,	9'	NA AN	NA NA			As: VE	RTICAL	WALL REI	NFORCING	3		

NOTE: SEE REVERSE SIDE FOR MATERIAL STANDARDS AND CONSTRUCTION REQUIREMENTS.

NOTES

- Concrete: Conform to ASTM C 94; Minimum compressive strength f c = 2500 psi at 28 days.
- 2. Reinforcing: Conform to ASTM A 615, grade 40, deformed; Dowels to have standard hook, match and lap with vertical wall reinforcing; Vertical wall reinforcing to be secured in place prior to grouting by bar positioners spaced at 200 db o.c. max.; Lap splice length in concrete to be 32 db and 40 db in masonry; Wall horizontal joint reinforcing at 16 inches o.c., ladder or truss type, minimum yield strength Fy = 60 ksi, consisting of two deformed #9 ga. longitudinal wires with welded #9 ga. cross wires.
- 3. Masonry: Specified compressive strength of masonry f'm = 1500 psi; Concrete block conforming to ASTM C 90, normal weight, type 1, 1900 psi block unit compressive strength; Mortar conforming to ASTM C 270, type S, 28 day compressive strength f'c = 1800 psi; Grout conforming to ASTM C 476, compressive strength f'c = 2000 psi; Constructed with running bond, all cells filled solid with grout; Quality, prior to or at the time of delivery to the job site, letters of certification from the block manufacture and grout supplier assuring the materials conform to these requirements shall be forwarded to Building Department.
- 4. Backfill Material: Clean, granular, non expansive fines; Brace wall prior to compacting backfill adjacent to wall.
- 5. Bearing Soil: Class 4, 2000 psf allowable foundation pressure.
- 6. No surface surcharge loads over backfill material; Wall extensions or support fences which extend above the retaining wall height are not permitted.
- 7. Drainage: 1 inch diameter PVC weep pipe at base, 48 inches o.c., screen with 1 cubic foot of 1 inch diameter rock.
- 8. Use retaining wall height plus 1/2 privacy wall height for retaining wall design.
- 9. Privacy walls require #4 rebar at 4ft O.C. with 1-#4 at top of wall bond beam.