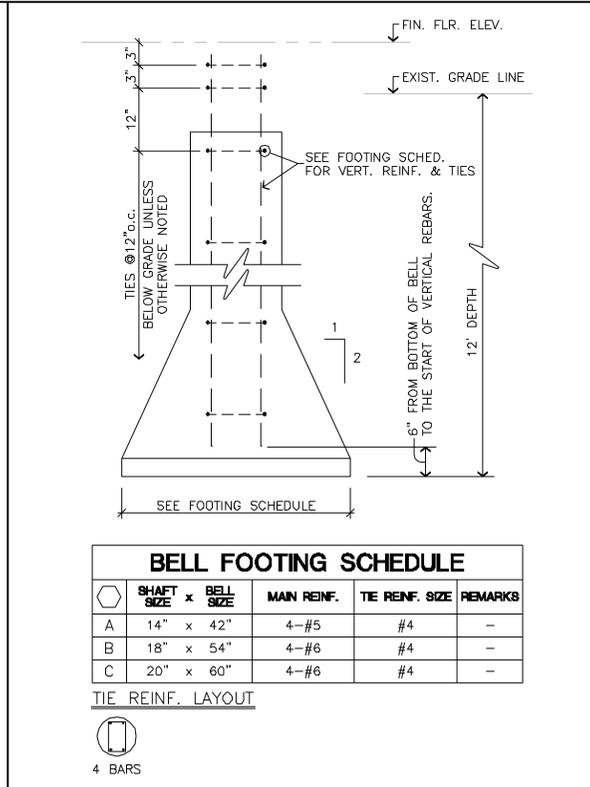


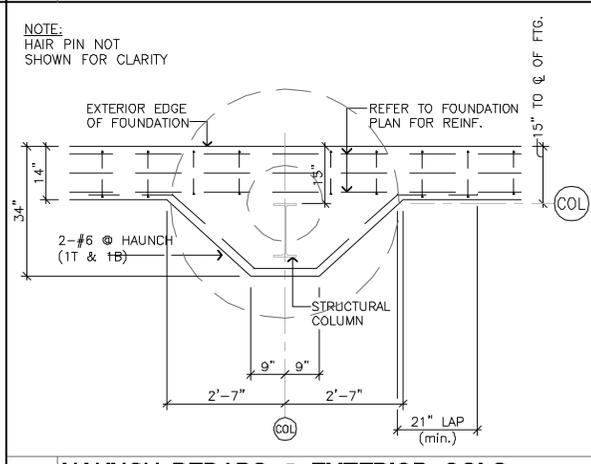
1 FOUNDATION PLAN SCALE: 1/8" = 1'-0"

- ALL CONCRETE SHALL HAVE SAND AND GRAVEL AGGREGATE TYPE '1' PORTLAND CEMENT AND SHALL HAVE A COMPRESSIVE STRENGTH (f_c) OF 3,000 PSI AT 28 DAYS.
- ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, #3 BARS AND SMALLER MAY BE GRADE 40.
- ALL CONTINUOUS REINFORCEMENT SHALL LAP AT SPLICES BY 36 TIMES ITS BAR DIAMETER OR CALCULATED IN ACCORDANCE WITH ACI-318.
- ALL REINFORCING BARS FORMED AGAINST GROUND SHALL HAVE A MINIMUM CONCRETE COVER OF 3-INCHES AT BEAMS, 1-3/4-INCHES AT SLABS.
- PROVIDE CORNER BARS EQUAL IN SIZE AND NUMBER TO THE ONE IT LAPS WITH. CORNER BARS TO BE 3FT. LONG (EACH LEG), IN EXTERIOR FACE OF BEAMS.
- ADDITIONAL FILL MATERIAL WITHIN THE BUILDING AREA SHOULD BE A SILTY OR SANDY CLAY HAVING A PLASTICITY INDEX (P.I.) OF TEN(10) TO TWENTY(20) AND A LIQUID LIMIT OF 28 OR MORE. FILL MATERIALS SHOULD BE PLACED IN SIX(6) TO EIGHT(8) INCH LOOSE LIFTS AND COMPACTED TO NINETY-FIVE(95) PERCENT OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698). PLEASE REFER TO SOILS REPORT REQUIREMENTS IN THE SPECIFICATIONS.
- ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATION, SPADING, OR RODDING TO WORK THE CONCRETE AROUND THE REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS. ELIMINATING AIR OR STONE POCKETS WHICH MAY CAUSE HONEYCOMBS. CARE SHALL BE TAKEN TO AVOID OVER VIBRATION AND CAUSE SEGREGATION.
- CONCRETE CONTRACTOR SHALL VERIFY FOUNDATION DRAWINGS WITH ARCHITECTURAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR COORDINATION.
- ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI-318.
- PROVIDE POSITIVE DRAINAGE ALLOWING STORM WATER TO SLOPE AWAY FROM THE BUILDING OR CONCRETE PAVED AREAS.
- STRIP AND REMOVE ALL SURFACE ORGANICS, TOPSOIL AND UNSUITABLE MATERIALS FROM ALL BUILDING AND PAVING AREAS.
- PROOF ROLL THE SUBGRADE TO DETECT ANY WET, SOFT, OR PUMPING AREAS. TREAT THESE AREAS WITH DRYING OR STABILIZING AGENTS AS NECESSARY, OR REMOVE AND REPLACE THEM WITH A SUITABLE FILL MATERIAL.
- COMPACT THE SUBGRADE TO A MINIMUM OF NINETY-FIVE(95) PERCENT OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).
- CONTRACTOR SHALL POUR CONCRETE ON PIERS AND/OR SPREAD FOOTINGS AS SOON AS POSSIBLE TO MINIMIZE THE DANGER OF LEAVING OPEN HOLES ON THE SITE.
- FOUNDATION DESIGN BASED ON SOILS REPORT BY: ASSOCIATED TESTING LABORATORIES, INC. REFER TO SPECIFICATIONS, IF APPLICABLE, FOR ADDITIONAL INFORMATION.

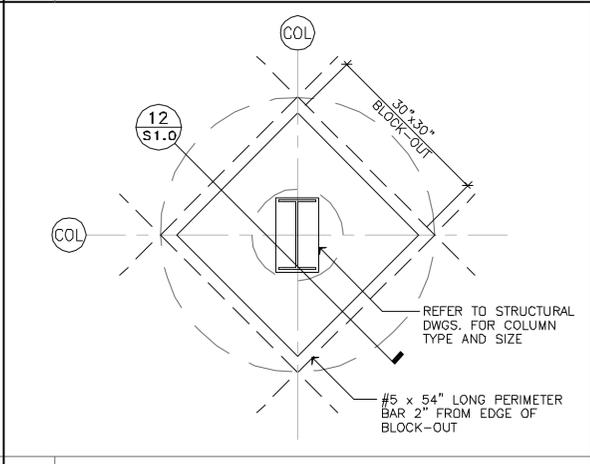
2 FOUNDATION GENERAL NOTES



7 HAUNCH REBARS @ EXTERIOR COLS. SCALE: 1/2" = 1'-0"



11 BLOCKOUT DET. @ INTERIOR COLS. SCALE N.T.S.



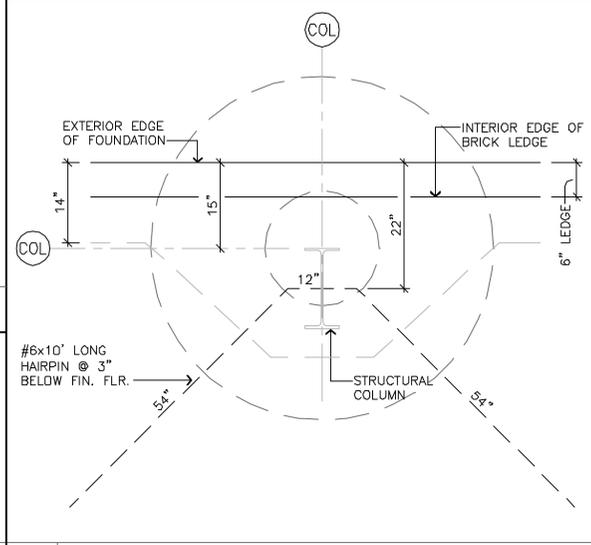
4 GRADE BEAM SCHEDULE

GRADE BEAM #	GR. BEAM SIZE		BOTTOM BARS	TOP BARS	INTERM. BARS	STIRRUP BARS	STIRRUP SPACING TO 4' FROM @ FTG.	REMAINING STIRRUP SPACING	REMARKS
	width (w)	depth (d)							
GB-01	14"	30"	3-#6	3-#6	-	#3	12" o.c.	24" o.c.	

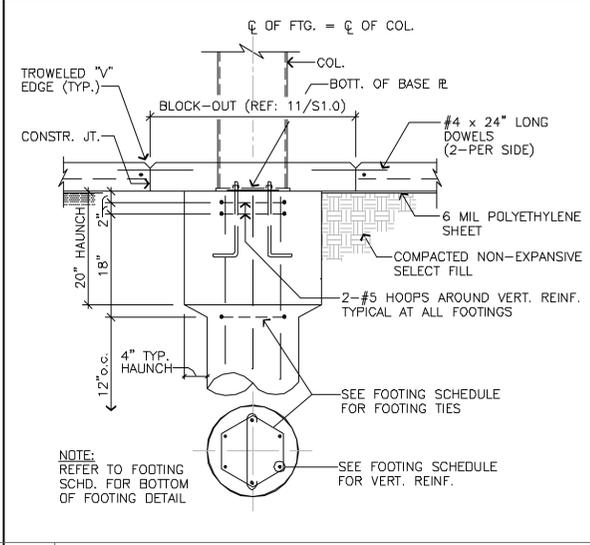
3 BELL FOOTING DET. & SCHEDULE SCALE N.T.S.

GRADE BEAM #	GR. BEAM SIZE	BOTTOM BARS	TOP BARS	INTERM. BARS	STIRRUP BARS	STIRRUP SPACING TO 4' FROM @ FTG.	REMAINING STIRRUP SPACING	REMARKS
GB-01	14" x 30"	3-#6	3-#6	-	#3	12" o.c.	24" o.c.	

8 TYP. HAIRPIN PLACEMENT DET. SCALE: 3/4" = 1'-0"



12 BLOCKOUT SECT. @ INTERIOR COLS. SCALE N.T.S.



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CITY OF HOUSTON FIRE DEPARTMENT
FIRE STATION #20 - ADDITION
 6902 NAVIGATION BLVD., HOUSTON, TEXAS

SEAL:

LAY-SU Architects & Engineers
 HOUSTON, TEXAS 77031
 TEXAS ENGINEERING FIRM #F-5215

0	WARNING	1
1	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	
REV.	DATE	REMARKS
	04/16/10	Issued for Bid
DESIGNED BY: RLS	DRAWN BY: RAY	SCALE: AS SHOWN
DATE: SEPTEMBER 2009		

FOUNDATION PLAN & DETAILS

S1.0