

GENERAL CONSTRUCTION NOTES

REINFORCING CONCRETE INTEL BEAMS IN CONCRETE BLOCK WALLS

TABLE 'A'
TENSION BARS

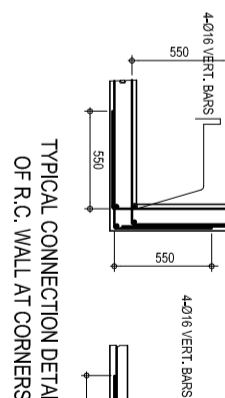
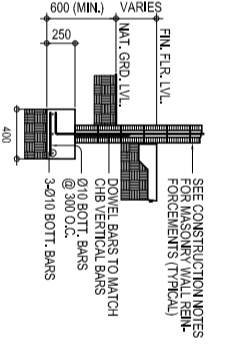
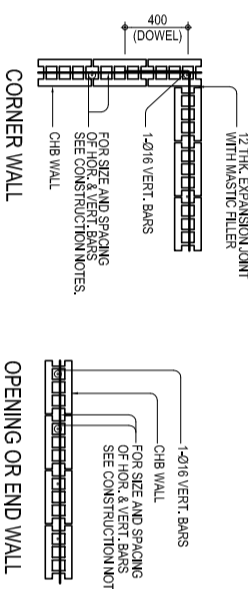
BAR SIZES (distribution bar)	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø10	300	300	300	300
Ø12	300	300	300	300
Ø16	300	400	300	400
Ø20	400	500	300	500
Ø25	600	500	500	700
Ø28	700	1000	600	600
Ø32	900	1300	600	1100

TABLE 'B'
COMPRESSION BARS

BAR SIZES (distribution bar)	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø10	225	300	200	300
Ø12	275	300	250	300
Ø16	300	300	325	400
Ø20	450	500	475	500
Ø25	500	500	500	625
Ø28	625	675	625	675
Ø32	700	775	700	775

INTELS IN BLOCK WALLS

CLEAR SPAN (L)	TOTAL LENGTH (L+400MM)	MIN. I _c ' (M ³ /M)	HEIGHT OF INTEL (mm)	REINFORCEMENT
1.20M	1.68M	1.81M	200	Ø6 mm @ 200mm
1.50M	1.98M	1.91M	200	Ø6 mm @ 200mm
1.80M	2.28M	1.91M	200	Ø6 mm @ 200mm
2.10M	2.58M	2.10M	250	Ø6 mm @ 200mm
2.40M	2.88M	2.40M	250	Ø6 mm @ 200mm
2.70M	3.18M	2.70M	250	Ø6 mm @ 200mm
3.00M	3.48M	3.00M	300	Ø6 mm @ 200mm
3.30M	3.78M	3.30M	300	Ø6 mm @ 200mm
3.60M	4.08M	3.60M	300	Ø6 mm @ 200mm

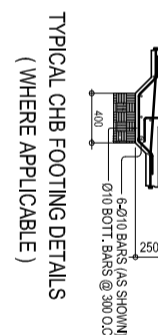


NOTES ON WELDS

- USE E60XX ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISION OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM WITH E60 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 BOLTS.



NOTES ON EMBEDDED PIPES

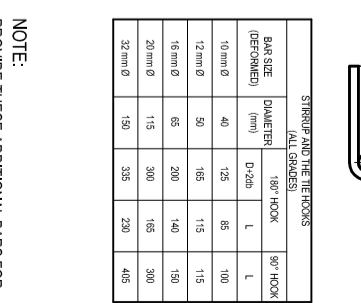
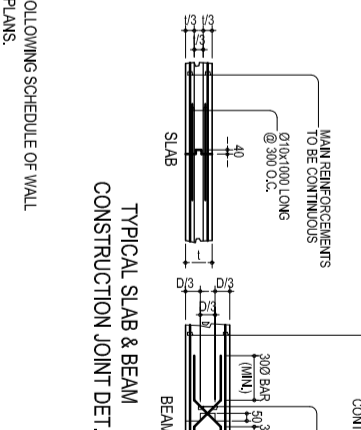
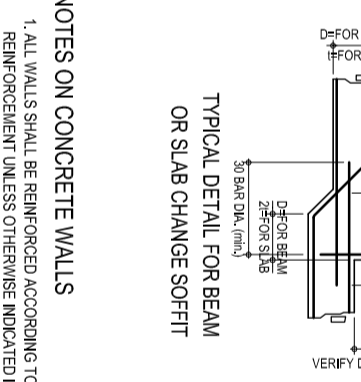
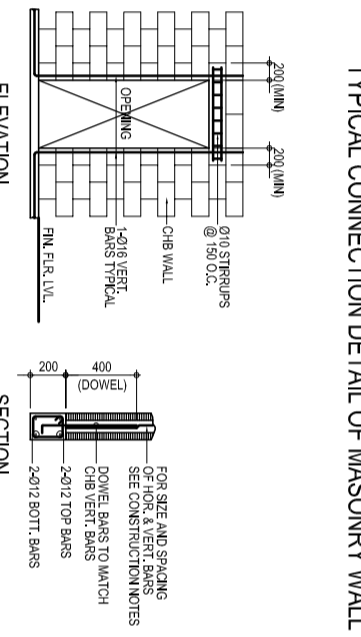
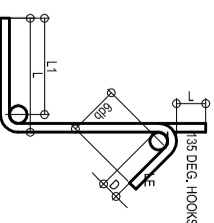
- ALL EMBEDDED PIPES FOR UTILITIES ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN COLUMNS.

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LANTJNE AND STANDING WATER REMOVED SHEAR KEY SHALL BE PROVIDED AT THE JOINT.

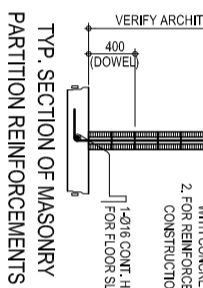
STRIP AND TIE THE HOOKS (ALL CASES)

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK	90° HOOK
10mm Ø	40	125	85
12mm Ø	50	155	115
16mm Ø	65	200	140
20mm Ø	85	250	185
25mm Ø	110	300	230
32mm Ø	140	375	290



NOTES ON CONCRETE HOLLOW BLOCK WALLS REINFORCEMENTS

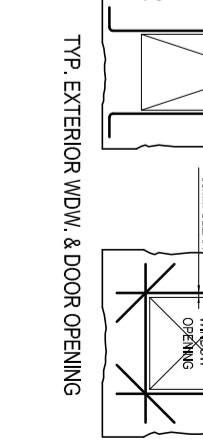
BLOCK THICKNESS	HORIZONTAL REINFORCEMENT	NOTES
75 mm	10mm Ø EVERY 3RD LEVEL	A. MINIMUM LAPS AT SPICE=0.25M
125 mm	10mm Ø EVERY 3RD LEVEL	B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92 IN LONG
150 mm	10mm Ø EVERY 3RD LEVEL	C. WHERE CHB OR CER. BLK. WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENT SHALL BE PROVIDED
200 mm	12mm Ø EVERY 3RD LEVEL	10mm Ø @ 800mm O.C.



NOTES ON CONCRETE WALLS

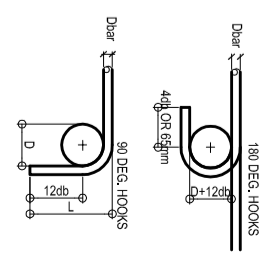
- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT	REMARKS
100mm	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGED OUT
125mm	Ø10mm @ 200mm O.C.	Ø10mm @ 250mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGED OUT
150mm	Ø12mm @ 250mm O.C.	Ø12mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGED OUT



NOTES ON STRIPUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TIES & CLOSE STRIPUPS MUST BE AT 135°.



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UNDERSECRETARY FOR ADMINISTRATION

PROJECT TITLE :
MODIFIED STANDARD DEPED ONE (1) STOREY, THREE (3) CLASSROOM SCHOOL BUILDING (WITH COMMON TOILETS @ ONE SIDE)

PROJECT CODE:

OWNERS :
DEPARTMENT OF EDUCATION
DepEd

SHEET NO. :
S-2
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