



West Visayas State University

JANIUAY CAMPUS

PLANNING AND DEVELOPMENT OFFICE

(Formerly Janiuay Polytechnic College, Don Tiburcio A. Lutero National
Comp. High School, Janiuay Nat'l Comp. High School, Janiuay National
Vocational High School, Janiuay High School)

Janiuay, Iloilo, Philippines

*Trunkline: (063) (033) 330-3485

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Project Title : PROPOSED RETAINING WALL FOR THE TIRADOR BUILDING

Location : WVSU-JANIUAY CAMPUS, JANIUAY, ILOILO

BUILDING SPECIFICATION

A. GENERAL REQUIREMENTS

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, THE ARCHITECTURAL, CIVIL, PLUMBING, ELECTRICAL AND MECHANICAL DRAWINGS.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE, WHICH SHALL INCLUDE THE DIMENSION AND LOCATION OF OPENINGS, GROOVES, REGLETS, PIPE SLEEVES, CONDUITS AND EMBEDDED OR ATTACHED ITEMS TO CONCRETE, ET CETERA.

3. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW CONSTRUCTION. THIS SHALL INCLUDE BUT NOT LIMITED TO BRACING AND SHORING FOR LOAD IMPOSED DURING CONSTRUCTION.

4. ALL FOUNDATIONS SHALL REST ON 50MM THICK LEAN CONCRETE AT $f'c = 6.895$ MPA (1000 PSI) UNLESS NOTED OTHERWISE.

5. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS SHOWN OR NOTED OTHERWISE.

6. ALL BAR DIAMETERS AND SPACINGS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

7. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS, SECTIONS AND DETAILS. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.

B. EXCAVATION

LIMIT CLEARING TO AREAS OF CUT AND FILL AND AREAS TO BE OCCUPIED BY WORKS, SUCH AS STRUCTURES PAVING, EXCAVATION, REGRADING, AND LANDSCAPE WORK OR TO OTHER DESIGNATED AREAS TO BE CLEARED.

AREAS OF CUT OR FILL AND AREAS OCCUPIED BY STRUCTURES, PAVEMENT AND EMBANKMENTS.
MAXIMUM DEPTH: 200 MM.

C. BACKFILL

STOCKPILE SITE TOPSOIL REQUIRED FOR RE-USE AND IMPORTED TOPSOIL WHERE NECESSARY. ESTABLISH STOCKPILES TO A MAXIMUM HEIGHT OF 1.5 M. PROTECT STOCKPILES FROM CONTAMINATION BY OTHER EXCAVATED MATERIAL, WEEDS AND BUILDING DEBRIS.

GROUND UNSUITABLE FOR THE PURPOSES OF THE WORKS, INCLUDING FILL LIABLE TO SUBSIDENCE, GROUND CONTAINING CAVITIES, FAULTS OR FISSURES, GROUND CONTAMINATED BY HARMFUL SUBSTANCES AND GROUND WHICH IS OR BECOMES SOFT, WET OR UNSTABLE.

D. CONCRETE WORKS

UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAYS CYLINDER COMPRESSIVE OF CONCRETE $f'c$ SHALL BE



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4.0 CONCRETE

- a.) FOOTINGS, FOOTING TIE BEAMS, RETAINING WALLS 20.7Mpa (3000 Psi). AND BASEMENT WATER TANK.
- b.) COLUMNS, PEDESTALS, AND SHEAR WALLS 20.7Mpa (3000 Psi).
- c.) FLOOR SLABS, BEAMS AND GIRDERS 20.7Mpa (3000 Psi).
- d.) DECK FLOORS, CANOPIES 20.7Mpa (3000 Psi).
- e.) PARTITIONS, CURTAIN WALLS, BEDDED SLABS 17.0Mpa (2500 Psi).

SIDEWALKS, CURBS, AND GUTTER & OTHER NON-STRUCTURAL ELEMENTS

- f.) LEAN CONCRETE 10.0Mpa (1500 Psi).

CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE -HANDLING OR FLOWING, PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS.

NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR

USUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

c.) AGGREGATE SIZE SHALL BE AS FOLLOWS:

- a.) 20 mm. SUSPENDED SLABS, BEAMS, GIRDERS, WALLS AND COLUMNS.
- b.) 40 mm. FOOTING, THICKENED SLABS AND SLAB ON GRADE.
- d.) MINIMUM COVERING OF CONCRETE FOR REINFORCING BARS SHALL NOT BE LESS THAN:
 - 75mm. UNIFORMED CONCRETE DEPOSITED AGAINST GROUND.
 - 50mm. FORMED CONCRETE AGAINST GROUND OR EXPOSED TO WEATHER FOR BARS LARGER THAN 16MM. IN DIAMETER.
 - 40mm. FORMED CONCRETE AGAINST GROUND OR EXPOSED TO WEATHER FOR BARS 16MM. IN DIAMETER AND SMALLER.
 - 40mm. BEAMS AND COLUMNS NOT EXPOSED TO GROUND OR TO WATER.
 - 20mm. SLABS AND WALLS NOT TO EXPOSED TO GROUND OR TO WEATHER.
 - 75mm. CONCRETE EXPOSED TO WEATHER.

WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A185.

PRIOR TO PLACING CONCRETE, ALL REINFORCING STEEL ANCHOR BOLTS, DOWELS, EMBEDDED STRUCTURAL STEEL SHAPES, BARS, PLATES, OR OTHER INSERTS SHALL BE WELL SECURED IN POSITION AND APPROVED BY THE ENGINEER.

EXPOSED EDGES OF CONCRETE SHALL HAVE 25 MM. (1") CHAMFER UNLESS OTHERWISE NOTED OR DETAILED. CONSTRUCTION JOINTS IN ALL FLOORS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF SLABS, BEAMS, JOINTS, GIRDERS SHALL BE OFFSET A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING LINES

E. REINFORCED STEEL

GRADE: ASTM A 615 GRADE 40 12 DIA. TO 25 DIA. ASTM A 615 GRADE 33 10 DIA. 10 DIA. AND SMALLER ASTM A 185 OR BS 4483 SLAB ON GRADE

DEFORMED BARS ($f_y=276$ Mpa) DEFORMED BARS ($f_y=230$ Mpa) WELDED WIRE FABRIC ($f_y=500$ Mpa)

ALL BARS SHALL BE BENT COLD UNLESS PERMITTED BY THE STRUCTURAL ENGINEER.

ALL REINFORCING SHALL BE SUPPORTED IN CONFORMANCE WITH THE MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURE (ACI 315 LATEST EDITION).



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ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.

ALL WELDING OF REINFORCEMENT SHALL CONFORM TO THE PROVISIONS OF THE STRUCTURAL WELDING CODE REINFORCING STEEL, AWS D 1.4.

A FULL MECHANICAL CONNECTION (REBAR SPLICER) SHALL DEVELOP IN TENSION OR COMPRESSION AS REQUIRED AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH f_y OF THE REBAR IF USED, SUBMIT SAMPLE FOR APPROVAL OF THE DESIGNER.

UNLESS SHOWN OTHERWISE ON PLANS, SPLICES, SHALL BE LOCATED AS FOLLOWS:

a.) INTERMEDIATE BEAMS, TOP BARS SHOULD BE SPLICED AT MIDSPAN AND BOTTOM BARS AT THE SUPPORT.

b.) BEAMS FRAMING TO COLUMNS: TOP AND BOTTOM BARS SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICE LENGTH SHALL NOT BE LESS THAN 1.3 x THE DEVELOPMENT LENGTH (L_d).

c.) COLUMNS LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT AND THE SPLICE BAR SPLICE SHALL BE 0.60 M. IF STAGGARD SPLICING IS USED.

d.) CMU WALLS: PROVIDE DOWELS ON R.C COLUMNS, BEAMS, FOOTINGS, AND FOOTINGS TIE- BEAMS TO MATCH CMU WALL REINFORCEMENT.

UNLESS INDICATED OTHERWISE ALL BEAMS TERMINATING AT COLUMN SHALL HAVE TOP & BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN.

TERMINATING IN A STANDARD 90 DEGREE HOOK OF ANCHORAGE SHALL NOT BE LESS THAN 0.60 M.

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