



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

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Project Title : CONSTRUCTION OF 3-CUBICLE TOILET BETWEEN ICT AND
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.

A.1 MOBILIZATION AND DEMOBILIZATION

AT ALL TIMES WHEN ON SITE, THE CONTRACTOR'S (AND ASSOCIATED SUBCONTRACTORS') EMPLOYEES SHALL CONSPICUOUSLY WEAR IDENTIFICATION (ID) BADGE STATING FIRM NAME, NAME OF BEARER, AREA CLEARANCE AND PERIOD OF VALIDITY.

THE CONTRACTOR AT HIS OWN COST SHALL PROVIDE THE NECESSARY ID TO ALL OF HIS EMPLOYEES AND OR SUBCONTRACTOR'S EMPLOYEES WORKING EITHER DIRECTLY OR INDIRECTLY UNDER ITS SUPERVISION. THE OWNER SHALL PROVIDE FOR DAILY REGISTRATION SHEETS TO INDICATE PRESENCE ON SITE. EACH EMPLOYEE OF THE CONTRACTOR IS OBLIGED TO SIGN HIS/HER PRESENCE ON AND OFF ON THE SHEET EVERY DAY.

AT THE REQUEST OF SITE SECURITY PERSONNEL OR SECURITY GUARD, ALL CONTRACTOR EMPLOYEES MAY BE SUBJECT TO SEARCH AND SUCH REQUEST MUST BE GRANTED.

ALL CONSTRUCTION ACTIVITIES ON SITE WILL BE MANAGED BY THE OWNER'S APPOINTED PROJECT ENGINEER. CONTRACTOR WILL BE ADVISED BY THE PERSON HOLDING THIS POSITION WHEN REQUESTING APPROVAL TO MOBILIZE TO SITE. THE CONTRACTOR'S APPOINTED ENGINEER, HEALTH &



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SAFETY OFFICER SHALL CONDUCT REGULAR INSPECTIONS AND SUBMIT REPORTS IN RESPONSE TO THE CONTRACTOR'S WORK PRACTICES AND SAFETY MANAGEMENT SYSTEMS IN CONJUNCTION WITH THE OWNER.

CONTRACTOR SHALL PROVIDE THE NEEDED PERSONNEL FOR THE PROJECT WITH THE COORDINATION OF THE OWNER'S SECURITY WITH RESPECT TO THE ENTRANCE OF THE OWNER'S PREMISES. THE CONTRACTOR MUST ABIDE TO THE RULES AND REGULATIONS WHEN IT COMES TO THE HEALTH AND SAFETY PROTOCOLS IMPLEMENTED BY THE OWNER.

A.2 DEMOLITION

GIVE SUFFICIENT NOTICE SO THAT INSPECTION MAY BE MADE OF ADJOINING STRUCTURES AND SERVICES BEFORE COMMENCEMENT OF DEMOLITION.

IF REQUIRED, PHOTOGRAPH THE AREAS ADJOINING THE DEMOLITION WORK FOR FUTURE REFERENCE. REFER TO PROJECT SPECIFIC REQUIREMENTS SECTION OF THE REQUEST FOR TENDER.

EXCEPT FOR MATERIALS TO BE RECOVERED AND RETAINED BY THE SUPERINTENDENT OR RE-USED, TAKE POSSESSION OF DEMOLISHED MATERIALS AND REMOVE THEM FROM THE SITE. DO NOT BURN OR BURY DEMOLISHED MATERIALS ON THE SITE. PREVENT SPILLAGE OF DEMOLISHED MATERIALS IN TRANSIT. REFER TO PROJECT SPECIFIC REQUIREMENTS SECTION OF THE REQUEST FOR TENDER.

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



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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).

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 $1.3 \times$ 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.

F. MASONRY

ALL MASONRY WALLS/CONCRETE HOLLOW BLOCKS SHALL BE LAID IN FLEMISH BOND (INTERLOCKING
COURSE) WITH FULL MORTAR BEDDING. STACK BOND SHALL BE USED ONLY WHEN
SPECIFIED. ALL CELLS SHALL BE FULLY FILLED WITH CONCRETE GROUT.

THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE HOLLOW BLOCK AT 28 DAYS SHALL BE 4.83
MPA (700 PSI) UNLESS OTHERWISE SPECIFIED.

6" CONCRETE HOLLOW BLOCKS WILL BE USED FOR THE EXTERIOR WALLS AND 4" FOR THE INTERIOR
WALLS



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G. FINISHING WORK

G.1 Plastering

THE PRIMARY REQUIREMENT OF PLASTERWORK SHALL BE TO PROVIDE ABSOLUTELY WATERTIGHT ENCLOSURE, DENSE, SMOOTH AND HARD AND DEVOID TO ANY CRACK ON THE INTERIOR AND/OR EXTERIOR. THAT CONTACTOR SHALL DO ALL THE NECCESASRY TO ENSURE THAT THESE OBJECTIVE IS ACHIEVED. ALL PLASTERING SHALL BE FINISHED TO TRUE PLANE, WITHOUT ANY IMPERFECTIONS AND SHALL BE SQUARE WITH ADJOINING WORK AND FORM PROPER FOUNDATION FOR FINISHING MATERIALS SUCH AS PAINT

MASONRY AND CONCRETE SURFACE WHICH CALL FOR THE APPLICATIONS OF PLASTER SHALL BE CLEAN, FREE FROM EFFLORESCENCE, DAMP AND SUFFICIENTLY ROUGH AND KEYED TO ENSURE PROPOER BOND, SUBJECT TO THE APPROVAL OF THE PROJECT CONSULTANTS

SELECT THE MASONRY UNITS FOR UNIFORM WIDTH AND DOUBLE-FACE QUALITIES IN SINGLE LEAF MASONRY WITH FACEWORK BOTH SIDES. BEFORE COMMENCEMENT, OBTAIN A RULING AS TO WHICH IS THE PREFERRED WALL FACE, AND FAVOUR THAT FACE SHOULD A COMPROMISE BE UNAVOIDABLE.

G.2 Painting

PAINTING WORKS SHALL BE AS INDICATED ON DRAWINGS AND DESCRIBED IN THE BILL OF QUANTITIES. INCLUDES SUBSTRATE PREPARATION, APPLICATION OF NEUTRALIZERS, PUTTY, SANDING, CLEANING, PROTECTION, ETC. TO PROVIDE A STRONG OR DURABLE PAINT COATING, FOLLOWING MANUFACTURER'S WRITTEN INSTRUCTIONS AND ACCEPTABLE TRADE PRACTICES.

PROVIDE MATERIALS THAT ARE SUITABLE FOR THE JOB AND OR TYPE OF CONSTRUCTION. PAINT MATERIALS SHALL BE OF THE BRAND SPECIFIED HEREIN OR APPROVED EQUAL BY THE ARCHITECT. EXAMINE SUBSTRATE AND CONDITIONS UNDER WHICH PAINTING WILL BE PERFORMED. PROCEED WITH THE WORK ONLY WHEN CONDITIONS ARE SATISFACTORY.

DO NOT PAINT OVER DIRT, RUST, SCALE, GREASE, MOISTURE, SCUFFED SURFACES, OR CONDITIONS OTHERWISE DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM. CLEAN SURFACES TO BE

PAINTED BEFORE APPLYING PAINT OR SURFACE TREATMENTS. REMOVE OIL AND GREASE PRIOR TO MECHANICAL CLEANING. PROGRAM CLEANING AND PAINTING SO THAT CONTAMINANTS FROM CLEANING PROCESS WILL NOT FALL INTO WET, NEWLY-PAINTED SURFACES.

PERFORM PREPARATION AND CLEANING PROCEDURES IN ACCORDANCE WITH PAINT MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED, FOR EACH PARTICULAR SUBSTRATE CONDITION. FERROUS METALS: CLEAN NON-GALVANIZED FERROUS-METAL SURFACES THAT HAVE NOT BEEN SHOP COATED; REMOVE MORTAR, PLASTER, GREASE, DIRT, RUST, LOOSE MILL SCALE AND OTHER FOREIGN SUBSTANCES BY SOLVENT OR MECHANICAL CLEANING METHODS THAT COMPLY WITH THE RECOMMENDATIONS OF THE STEEL STRUCTURES PAINTING COUNCIL, BEFORE PRIMING COAT IS APPLIED.



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H. CEILING WORKS

THE GRID LAYOUT IS TO BE SUPER IMPOSED ON THE CEILING SERVICE DUCTING/CABLING LAYOUT AND GOT APPROVED FROM THE PROJECT CONSULTANTS.

THE CEILING SHALL INCLUDE PROVIDING AND FIXING G.I PERIMETER CHANNELS SIZE OF 0.55MM THICK HAVING ONE FLANGE 20MM AND ANOTHER FLANGE OF 30MM AND WEB OF 27MM ALONG THE PERIMETER OF THE CEILING, SCREW FIXED TO BRICK WALL / PARTITION WITH HELP OF NYLON SLEEVES AND SCREWS, AT 600MM CENTER. THE SUSPENDED GI. INTERMEDIATE CHANNEL WITH SIZE 45MM, 0.9MM THICK WITH TWO FLANGES OF 15MM EACH FROM THE SOFFIT AT 1200 MM CENTERS WITH CEILING ANGLES OF WIDTH 25MM X 10MM X 0.55 THICK FIXED TO SOFFIT WITH GI CLEAT AND STEEL EXPANSION FASTENERS. SCREW FIXED TO CEILING SECTION WITH 25MM DRY WALL SCREWS AT 230MM CENTERS

SCREW FIXING DONE MECHANICALLY EITHER WITH SCREW DRIVER OR DRILLING MACHINE WITH SUITABLE ATTACHMENT

I. ROOF WORKS

KEEP THE ROOFING AND RAINWATER SYSTEM FREE OF DEBRIS AND LOSE MATERIAL DURING CONSTRUCTION, AND LEAVE THEM CLEAN AND UNOBSTRUCTED ON COMPLETION. REPAIR DAMAGE TO THE ROOFING AND RAINWATER SYSTEM.

FORMED FROM G550 STEEL (OR G300 FOR CURVING) WITH AN AM 125 FINISH CONFORMING TO AS 1397. MINIMUM 0.48 MM BMT. PROTECTION: PROTECT THE ROOF SHEETS FROM DAMAGE DURING HANDLING AND STORAGE AND PREVENT DAMAGE BY MOISTURE IN STACKED SHEETS. USE MATERIAL WITH THE SAME FINISH AND FROM THE SAME MANUFACTURER AS THE ROOFING SHEETS. THICKNESS: 0.55 MM BMT STEEL SHEET.

ROOFING SHALL BE .5MM RIBBED TYPE COLORBONDED GI ROOFING PANELS LAPPING AS INDICATED IN THE PRODUCT BROCHURE SHALL BE STRICTLY FOLLOWED ROOFING SHALL BE FASTENED PROPERLY TO THE PURLINS BY A 2-½ INCH TEX SCREW.

SELF-DRILLING SCREWS: TO AS 3566.1 AND AS 3566.2, COMPLETE WITH WASHERS AND EDPM BLACK, NONCONDUCTIVE SEALS. PROVIDE FASTENERS WHICH ARE PREFINISHED WITH AN OVEN BAKED POLYMER COATING TO MATCH THE ROOFING MATERIAL.

CHECK AND ADJUST THE ALIGNMENT OF THE ROOF STRUCTURE BEFORE FIXING ANY SHEETS.

BATTENS: 2 mm maximum mismatch at abutting ends.

ROOF PLANE: 5 mm per metre maximum deviation

ACROSS THE BATTENS FROM A PLANE PARALLEL TO THE SPECIFIED ROOF SLOPE.

FOR THE FASCIA COVER STRATCO 0.55 MM BMT PREPAINTED STEEL 210 MM OR 185 MM DEEP TO SUIT THE PARTICULAR APPLICATION. FIX TO RAFTER ENDS WITH PROPRIETARY FIXING CLIPS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROVIDE CORNER TRIMS, END TRIMS AND CAPPINGS AS REQUIRED.



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J. TILE WORKS

ENSURE CONCRETE FLOOR AND SEALER ARE COMPATIBLE WITH ADHESIVE. IF AVAILABLE, PROVIDE PURPOSE-MADE BORDER TILES WITH THE EXPOSED EDGE (WHETHER ROUND, SQUARE OR CUSHION) GLAZED TO MATCH THE TILE FACE.

IF AVAILABLE, PROVIDE TILE ACCESSORIES SUCH AS ROUND EDGE CERAMIC TILES, COVE TILES, STEP TREADS AND NOSINGS TO STAIRS, LANDINGS, AND THRESHOLDS, SKIRTINGS, SILLS, COPINGS AND BATH VENTS, WHICH MATCH THE SURROUNDING TILES, COMPOSITION, COLOUR AND FINISH.

FINE AGGREGATE WITH A LOW CLAY CONTENT SELECTED FOR GRADING, SHARP AND FREE FROM EFFLORESCING SALTS. F

OR BEDDING MORTAR USE PROPORTIONING: SELECT PROPORTIONS FROM THE RANGE 1:3 TO 1:4 CEMENT: SAND BY VOLUME TO OBTAIN SATISFACTORY ADHESION. USE MINIMUM WATER.

FOR GROUTING CEMENT BASED PROPRIETARY GROUT: MIX WITH WATER. FINE SAND MAY BE ADDED AS A FILLER IN WIDER JOINTS. PORTLAND CEMENT BASED GROUT: MIX WITH FINE SAND. USE MINIMUM WATER CONSISTENT WITH WORKABILITY.

PROPORTIONING:

- For joints up to 3 mm: 1:2 cement: sand.
- For joints over 3 mm: 1:3 cement: sand.

K. ELECTRICAL WORK

ALL SWITCHES, ISOLATORS AND SOCKET OUTLETS IN NONDOMESTIC INSTALLATIONS TO HAVE CIRCUIT NUMBER AND PHASE IDENTIFICATION.

WIRING: CONCEAL CABLES AND CONDUITS, INCLUDING UNDERGROUND CABLE OR CONDUIT ENTERING THE BUILDING, IN A MANNER THAT WILL ALLOW WIRING REPLACEMENT WITHOUT STRUCTURAL WORK OR THE REMOVAL OF CLADDING OR LINING. DO NOT PENETRATE DAMP-PROOF COURSES.

ELECTRICAL ACCESSORIES: INSTALL FLUSH MOUNTED ACCESSORIES IN WALL BOXES, IF REQUIRED, IN MASONRY AND IN MOUNTING BRACKETS IN STUD WALLS.

FIXED APPLIANCES: PROVIDE CONNECTIONS WITH SOCKET OUTLET AND FLUSH BLANK PLATE FOR FIXED AND STATIONARY APPLIANCES. EARTH ALL SLAB FABRIC.

LIGHT SWITCHES AND FAN CONTROLLERS: GENERALLY, 1 M ABOVE FINISHED FLOOR LEVEL (AFL).

SOCKET OUTLETS: GENERALLY, 300 MM AFL OR 200 MM ABOVE BENCH SURFACE.

THE LIGHTINGS INSTALLED IN THE COMFORT ROOMS ARE ONE LED CEILING LIGHT WITH THE MINIMUM AMPERAGE OF 15A



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L. PLUMBING WORK

EXCAVATE TO LOCATE AND EXPOSE THE CONNECTION POINTS AND CONNECT TO THE AUTHORITIES' MAINS. ON COMPLETION, BACKFILL AND COMPACT THE EXCAVATION AND REINSTATE SURFACES AND ELEMENTS WHICH HAVE BEEN DISTURBED SUCH AS ROADS, PAVEMENTS, KERBS, FOOTPATHS AND NATURE STRIPS.

FOR WATER SUPPLY LINES Copper pipe: To AS 1432, Type B.

JOINTING METHODS: Use capillary fittings, compression fittings, silver brazed slip joints or screwed joints.

GALVANIZED STEEL PIPE: To AS 1074, with screwed joints.

GENERALLY: Use copper pipes.

CORROSIVE WATER AREAS: Use Class 16 Polybutylene pipes, or Polyethylene equivalent, to AS/NZS 2642.2 and where exposed, use 316 stainless steel pipes including stainless steel

INSTALL PIPING IN STRAIGHT LINES AND TO UNIFORM GRADES. ARRANGE AND SUPPORT THE PIPING SO THAT IT REMAINS FREE FROM VIBRATION AND WATER HAMMER, WHILST PERMITTING THERMAL MOVEMENT. KEEP THE NUMBER OF JOINTS TO A MINIMUM. PREVENT DIRECT CONTACT BETWEEN INCOMPATIBLE METALS.

IF PRACTICABLE, CONCEAL PIPING AND FITTINGS REQUIRING MAINTENANCE OR SERVICING SO THAT THEY ARE ACCESSIBLE WITHIN NON-HABITABLE ENCLOSED SPACES SUCH AS ROOF SPACES, SUBFLOOR SPACES AND DUCTS. KEEP PIPELINE IN SUBFLOOR SPACES AT LEAST 150 MM ABOVE GROUND AND ENSURE ACCESS CAN BE PROVIDED THROUGHOUT FOR INSPECTION. PROVIDE AT LEAST 25 MM CLEARANCE BETWEEN ADJACENT PIPELINES (MEASURED FROM THE PIPING INSULATION WHERE APPLICABLE). EMBEDDED PIPES: DO NOT EMBED PIPES THAT OPERATE UNDER PRESSURE IN CONCRETE OR SURFACING MATERIAL. THE SAME AS THE PIPING, OR GALVANIZED OR NON-FERROUS METALS, WITH BONDED PVC OR GLASS FIBRE WOVEN TAPE SLEEVES WHERE NEEDED TO SEPARATE DISSIMILAR METALS.

THE ENTIRE WASTE WATER TREATMENT SYSTEM IS TO COMPLY WITH AS/NZS 1547 ON-SITE DOMESTIC WASTE WATER MANAGEMENT. A COMPREHENSIVE STUDY OF THE GROUND CONDITIONS IS TO BE COMPLETED.

PROVIDE THE ACCESSORIES AND FITTINGS NECESSARY FOR THE PROPER FUNCTIONING OF THE PLUMBING SYSTEMS, INCLUDING TAPS, VALVES, OUTLETS, PRESSURE AND TEMPERATURE CONTROL DEVICES, STRAINERS, GAUGES AND PUMPS

M. Doors, Windows and Fixtures

DOORS: DELIVER DOOR HARDWARE ITEMS, IN INDIVIDUAL COMPLETE SETS FOR EACH DOOR, AS FOLLOWS:

- Clearly labelled to show the intended location.
- In a separate dust and moisture proof package.
- Including the necessary templates, fixings and fixing instructions

PROVIDE 3-4 HINGES, ALUMINIUM HINGES: PROVIDE HIGH TENSILE ALUMINIUM HINGE, WITH FIXED STAINLESS-STEEL PINS IN NYLON BUSHES, AND WITH NYLON WASHERS TO EACH KNUCKLE JOINT. DOORS FITTED WITH CLOSERS: USE LOW FRICTION BEARING HINGES.



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PROVIDE MATERIALS COMPATIBLE WITH THE ITEM BEING FIXED, AND OF SUFFICIENT STRENGTH, SIZE AND QUALITY TO PERFORM THEIR FUNCTION.

FIX HINGES USING METAL THREAD SCREWS. INSTALL BUTT HINGES IN HOUSINGS EQUAL IN DEPTH TO THE THICKNESS OF THE HINGE LEAF (EXCEPT FOR HINGES DESIGNED FOR MOUNTING WITHOUT HOUSING), AND FIX WITH COUNTERSUNK SCREWS.

THE WINDOW AND DOOR FRAME SECTIONS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY TO SHOW THE REQUIRED RELATIONSHIPS BETWEEN OPENINGS AND ADJOINING SURFACES. PROVIDE SUB SEALS TO ALL WINDOWS. MAKE ACCURATELY FITTED TIGHT JOINTS SO THAT NEITHER FASTENERS NOR FIXING DEVICES SUCH AS PINS, SCREWS, ADHESIVES AND PRESSURE INDENTATIONS ARE VISIBLE ON EXPOSED SURFACES.

EACH CUBICLE WILL HAVE A ONE-PIECE WATER CLOSET, COUNTER TOP BASIN, UPVC DOOR SET, MIRROR, FAUCET AND A GLASS JALOUSIE 4- LEAVES WITH FRAME. THE QUALITY AND TYPE OF FIXTURES WILL BE PRESENTED TO THE OWNERS BEFORE INSTALLATION.

N. SEPTIC TANK

THE DESIGNER'S DRAWINGS SHALL SERVE AS BIDDING DRAWINGS FOR THE GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT. HOWEVER, LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, DUCTWORK AND PIPING ARE DIAGRAMMATIC, UNLESS SPECIFICALLY, DIMENSIONED, AND DO NOT NECESSARILY INDICATE EVERY REQUIRED FITTING, TRAP, ELBOW, TRANSITION, OR SIMILAR ITEMS REQUIRED FOR CONSTRUCTION OF THE WORK AND A COMPLETE INSTALLATION.

USE ONLY PRECAST CONCRETE OR GLASS FIBRE REINFORCED PLASTIC SEPTIC TANKS: TO AS/NZS 1546.1. EFFLUENT DISPOSAL: TO AS/NZS 1547 AND THE REQUIREMENTS OF THE ENVIRONMENTAL HEALTH BRANCH OF THE DEPARTMENT OF HEALTH.

Prepared by:

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