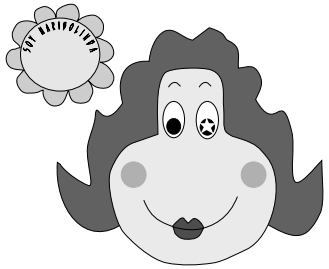
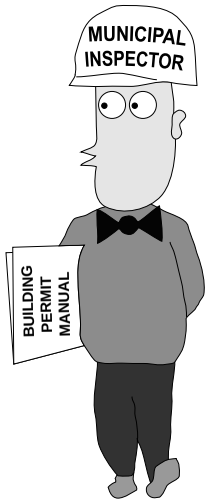
Appendix 11

LEAFLET OF PROTOTYPE DRAWINGS FOR SAFER HOUSING IN THE PROCESS OF BUILDING PERMIT

BUILDING PERMIT SYSTEM BY USING PROTOTYPE DRAWINGS FOR SAFER HOUSING

3-A11-1





JICA

PERÚ Ministerio de Vivienda, Construcción y Saneamiento

STEP 1 DISSEMINATING THE BUILDING PERMIT SYSTEM FOR SAFER HOUSING

STEP 2 SELECTING THE PROTOTYPE DRAWING FOR SAFER HHOUSING

STEP 3 PREPARING THE BUILDING PERMIT DOCUMENTS

STEP 4 RECEIVING THE BUILDING PERMIT DOCUMENTS

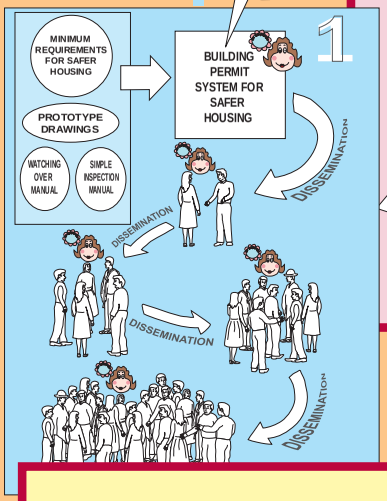
STEP 5 EVALUATING THE BUILDING PERMIT DOCUMENTS

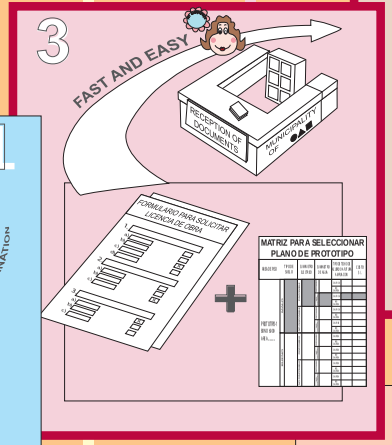
STEP 6 ISSUING THE BUILDING PERMIT

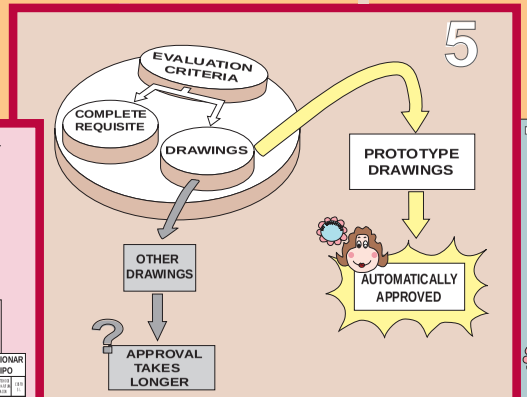
STEP 7 WATCHING OVER HOUSING CONSTRUCTION

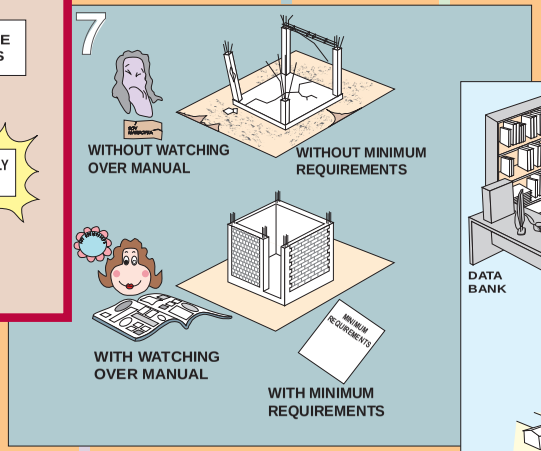
STEP 8 INSPECTING HOUSING CONSTRUCTION BY MUNICIPALITY OFFICERS

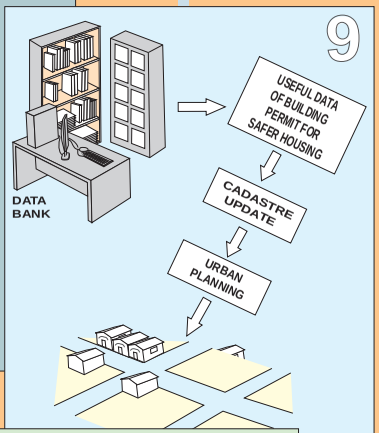
STEP 9 DATA BANKING FINISHED HOUSING

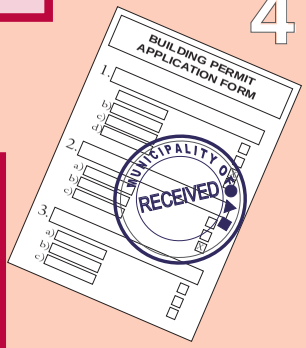


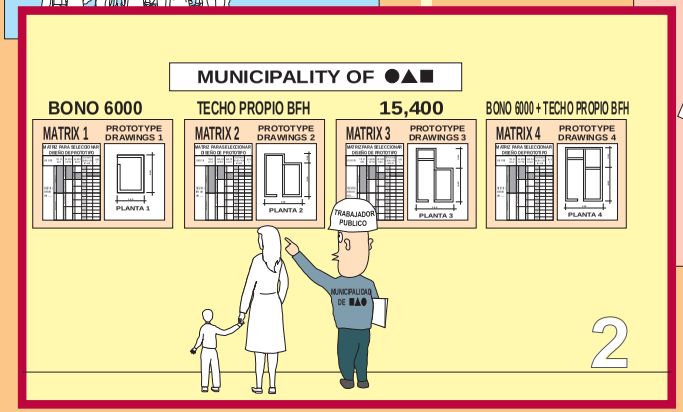


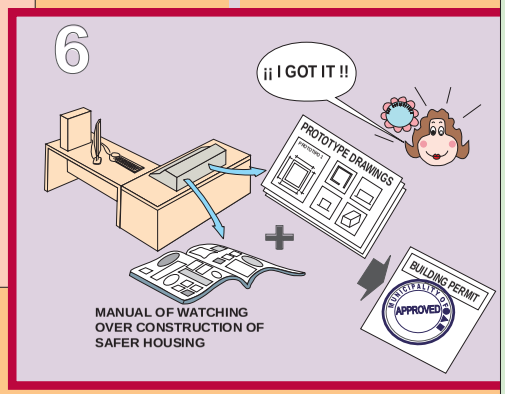


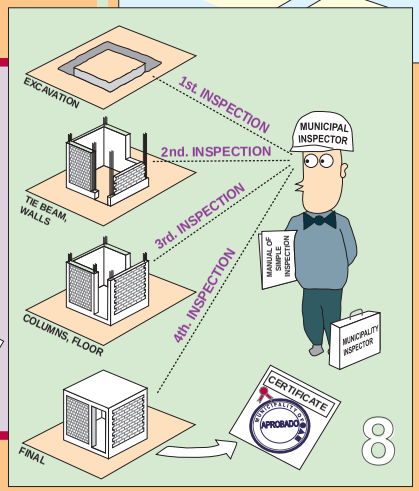












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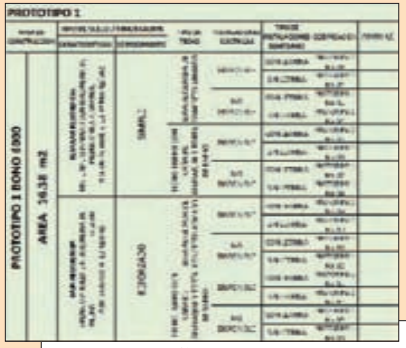
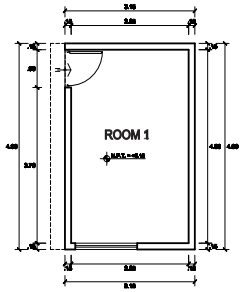
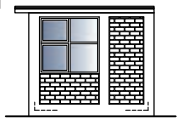
PROTOTYPE DRAWINGS FOR SAFER HOUSING

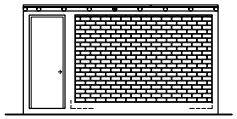




FIRST FLOOR PLANT

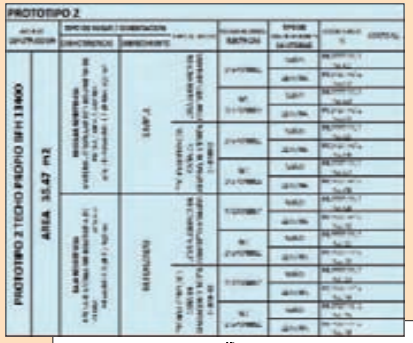


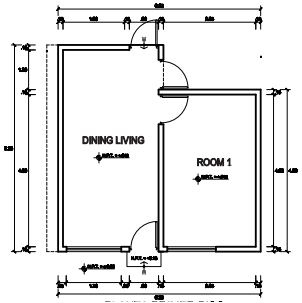
FRONTAL ELEVATION



LEFT ELEVATION

BONO 6000
S/. 6,000





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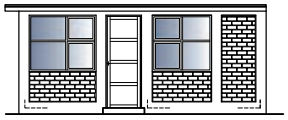

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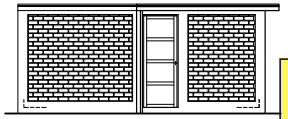
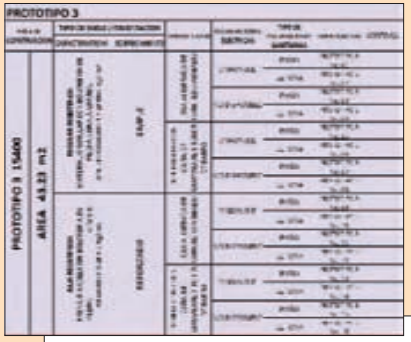
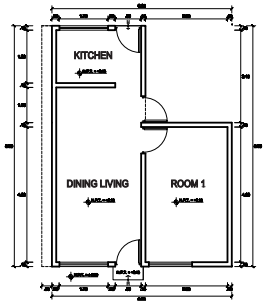


POSTERIOR ELEVATION

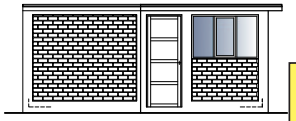
TECHO PROPIO BFH
S/. 13,400





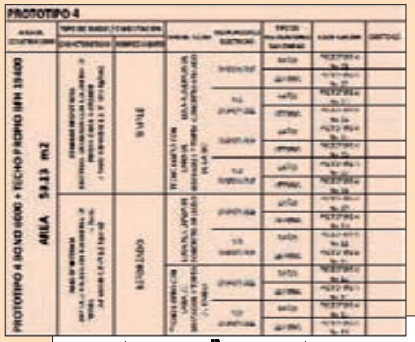
FIRST FLOOR PLANT

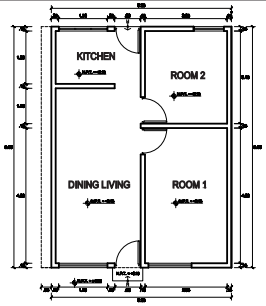
FRONTAL ELEVATION



POSTERIOR ELEVATION

S/. 15,400





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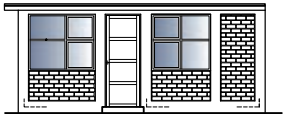
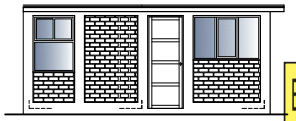


FRONTAL ELEVATION



POSTERIOR ELEVATION

BONO 6000 + TECHO PROPIO BFH
S/. 19,400

MINIMUM REQUIREMENTS FOR SAFER HOUSING

QUALITY OF MATERIALS

CONCRETO WOOD
MORTAR BRICK
FOUNDATION WATER

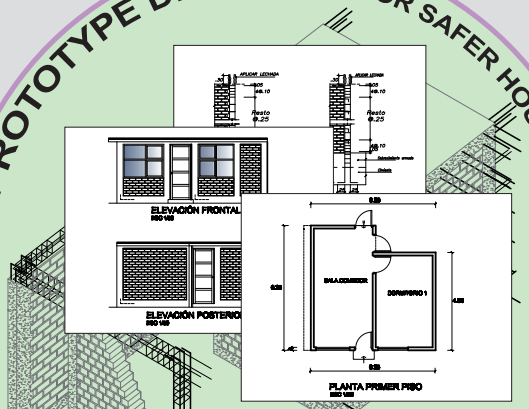
STRUCTURAL SECTION OF MAIN MEMBERS

FOUNDATION
SECTION OF MAIN MEMBERS REINFORCEMENT
MAXIMUM DISTANCE BETWEEN CONFINEMENT COLUMNS

CONECTION OF STRUCTURAL ELEMENTS

ANCHORING OF CONFINED COLUMN TO THE REINFORCED TIE BEAM AND RING BEAM
WALL-COLUMN CONNECTION
OVERLAPPING OF REINFORCEMENT BARS
THICKNESS OF MORTAR JOINT IN WALLS

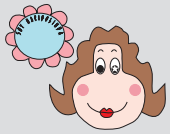
PROTOTYPE DRAWINGS FOR SAFER HOUSING



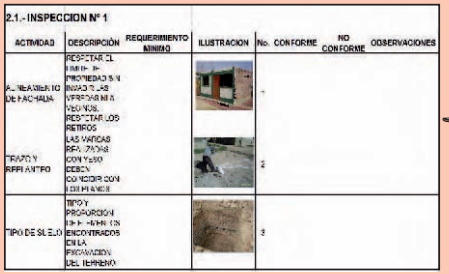
- AUTOMATICALLY APPROVED
- SAFER HOUSING
- AFFORDABLE COST

MANUAL OF WATCHING OVER THE CONSTRUCTION OF SAFER HOUSING

- WATCH OVER THE MASON´S PERFORMANCE
- WATCH OVER THE PROPER APPLICATION OF MINIMUM REQUIREMENTS



MANUAL OF SIMPLE INSPECTION FOR CONSTRUCTION OF SAFER HOUSING



- SIMPLE INSPECTION CONDUCTED DURING IMPORTANT STAGES OF THE CONSTRUCTION

Appendix 12

TEST SHEETS OF OJT FOR TECHNICAL OFFICERS OF PUBLIC WORK SECTION IN DISTRICT MUNICIPALITY

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

FIRST COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: BUILDING PERMIT MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What documents are necessary to submit in a Building Permit file?**
   a) Document that certify the property, Selection of prototype drawings, Fill in the corresponding form, pay the corresponding fees.
   b) Property title, pay the Building permit fee.
   c) Drawings selection, pay the building permit fee, fill in the form.
   d) None of the previously stated.

2. **What manual will be delivered to the owner when he ask for the building permit?**
   a) Building permit system manual for a safer housing.
   b) Simple inspection manual for safer housings construction.
   c) Watching manual for safer housing construction.
   d) None of the previously stated answers.

3. **How many steps does the Flow sheet of the Building Permit System for a safer housing have?**
   a) 6 steps
   b) 8 steps
   c) 9 steps
   d) None of the previously stated answers.

4. **Which is the STEP 2 of the Building Permit System Flow Sheet for a safer housing?**
   a) Difussion of the Building permit system for safer housing.
   b) Selection of prototype drawings for safer housing.
   c) Prepare the Building permit file.
   d) None of the previously stated answers.

JICA STUDY TEAM

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

SECOND COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: BUILDING PERMIT MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What do you understand by autoconstruction?**
   a) Building of a house performed by the land owner and with municipal inspection.
   b) Building of a house performed by the land owner and with municipal inspection. The owner is the responsable of the edification.
   c) Building of a house performed by the land owner and the owner is the responsable of the edification.
   d) None of the previously stated answers.

2. **In which law is the principle of CELERITY AND SIMPLICITY included?**
   a) Law Nº 27927 Municipality Organic Law.
   b) Law Nº 29090 Urban habilitation and building regulation law.
   c) Law Nº 27444 General administrative procedure law.
   d) None of the previously stated answers.

3. **How many approval courses has the law 29090?**
   a) 4 courses
   b) 6 courses
   c) 3 courses
   d) None of the previously stated answers.

4. **The course that adjust to housing constructionby BONOS is…**
   a) Course C.
   b) Course D.
   c) Course A.
   d) None of the previously stated answers.

5. **According to the law 29090, the Course A of approval of Building permit is…**
   a) Automatic approval (Unifamiliar housing up to 120.00 m2)
   b) Automatic approval with the sign of responsible profesional (Building up to 5 floors with a máximum of 3,000 m2)
   c) Approval with previous evaluation of the Project by urban auditor sor Technical Commission (building larger than 5 floors)
   d) None of the previously stated answers.

6. **Residential habilitations are included in the NORM…**
   a) Norm E.030
   b) Norm TH.010
   c) Norm a.020.
   d) None of the previously stated answers.

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

SECOND COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: INSPECTION MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What to do in case of construction error detected during a Simple Inspection?**
   a) No Conformity is checked, the owner is informed and the correction is checked in the next visit.
   b) The Observation is checked, the owner is informed and the correction is checked in the next visit.
   c) No Conformity is checked, The Obsevation is checked, the owner is informed and the correction is checked in the next visit.
   d) None of the previously stated.

2. **¿What jobs are checked on the third visit in the Simple Inspection?**
   a) Finishing jobs are checked.
   b) Roof jobs are checked.
   c) Wall jobs are checked.
   d) Foundation jobs are checked.

3. **Where can we consult in case of doubts about any building term?**
   a) We will consult the Technical Terms List from the Simple Inspection Manual.
   b) We will consult in the Watching Manual.
   c) We will consult in the Building Permit Manual.
   d) None of the previously stated.

4. **What documents are necessary for Simple Inspection training?**
   a) Minimum Requirements Poster and Verification List.
   b) Prototype drawings, Minimum Requirements Poster and Verification List.
   c) Prototype drawings and Verification List.
   d) Prototype drawings, Minimum Requirements Poster, Verification List and Building Permit application.

5. **Why is ti important that the owner communicate to the municipality the construction beggining date?**
   a) It is important in order that the municipality gets the corresponding charge.
   b) It is important because municipality can prepare the Simple Inspection Chronogram for that edification.
   c) It is important so that the municipality can assign a code number for that edification.
   d) None of the previously stated

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

FIRST COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: INSPECTION MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What do you understand by Simple Inspection?**
   a) Faster way of Building verification Process
   b) Building verification Process that allows the municipality to determine the correct building execution.
   c) Building verification Process that reduce cost.
   d) None of the previously stated.

2. **Which are the Verification List ítems?**
   a) Activity, Minimum Requirement, Conformity, No Conformity and Observations.
   b) Description, Minimum Requirements, Conformity, No Conformity and Observations.
   c) Descripción, Actividad, Conformity, No Conformity and Observations.
   d) Activity, Description, Minimum Requirements, Conformity, No Conformity and Observations.

3. **Who and how they participate in the Simple Inspection training process?**
   a) JICA to a Profesional Technician; Municipality Technician and unicipality profesional technician to a municipality worker
   b) JICA to a Profesional Technician; and municipality Professional Technician to a district inhabitant.
   c) JICA to a inhabitant and inhabitant to his neighbors.
   d) JICA t a Municipality worker and Municipality worker to an inhabitant.

4. **How many visits are proposed in the Simple Inspection chronogram?**
   a) 3 visits are proposed.
   b) 5 visits are proposed.
   c) 4 visits are proposed.
   d) None of the previously stated

5. **In what building stages are proposed the Simple Inspection visits?**
   a) In the works of walls, roof, finishings and at the building end.
   b) In the Works of foundation, walls, roof and at the building end
   c) In the works of foundation, walls, roof, finishings and at the building end.
   d) In the works of walls, roof and finishings

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

FIRST COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: MINIMUM REQUIREMENTS

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. What do you understand by safer house?
   a) they are more expensive
   b) they can resist earthquakes and protect my life
   c) they are more modern
   d) Answers (a), (b) and (c) are all correct.

2. Which are the 3 factors that are the basis for minimum requirements?
   a) Good mason, good land and good material quality
   b) Material quality, structure dimensión and connections
   c) Structure dimension, good drawings and a good mason
   d) Answers (a), (b) and (c) are all correct.

3. How much important is the quantity of water in the safer house building?
   a) Very much, because I obtain good durability in the concrete
   b) It's indifferent
   c) Little, because water is not important
   d) The only important fact is that water is should be clean

4. Which is the foundation mínimum depth according to Minimum Requirements?
   a. 80 cm b) 75 cm c) 70 cm d) 65 cm

5. Which is the mínimum distribution of hoops in a confined column?
   a) 1 at 5cm, 3 at 10cm, 2 at 15cm and the rest at 20cm
   b) 1 at 5cm, 2 at 10cm, 2 at 15cm and the rest at 25cm
   c) 1 at 5cm, 4 at 10cm and the rest at 25cm
   d) All at 20cm

6. How much thick should the mortar mix in a confined masonry wall?
   a. Less than 1.0 cm.
   b. from 1.0 to 1.5 cm.
   c. More than 1.50 cm.
   d. All the previous stated answers are correct.

JICA STUDY TEAM

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

SECOND COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: MINIMUM REQUIREMENTS

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What do you understand by safer house?**
   a. they are more expensive
   b. they can resist earthquakes and protect my life
   c. they are more modern
   d. Answers (a), (b) and (c) are all correct.

2. **Which are the 3 factors that are the basis of minimum requirements?**
   a. Good mason, good land and good material quality
   b. Material quality, structure dimensión and connections
   c. Structure dimension, good drawings and a good mason
   d. Answers (a), (b) and (c) are all correct.

3. **In what type of soil is not good to build your house?**
   a. Sandy
   b. Clayish
   c. Organic and/or lime
   d. Answers (a), (b) and (c) are all correct.

4. **Why should the fresh concrete be homogenized immediately after pouring?**
   a. Because it is a tradition.
   b. It is indiferent.
   c. Because the honeycombs are avoided.
   d. None of the previous stated answers is correct.

1. **What is the foundation mínimum depth according to Minimum Requirements?**
   a) 80 cm b) 75 cm c) 70 cm d) 65 cm

2. **What is the foundation mínimum width according to Minimum Requirements?**
   a) 70 cm b) 65 cm c) 60 cm d) 55 cm

5. **Which is the mínimum distribution of hoops in a confined column?**
   a. 1 at 5cm, 3 at 10cm, 2 at 15cm and the rest at 20cm
   b. 1 at 5cm, 2 at 10cm, 2 at 15cm and the rest at 25cm
   c. 1 at 5cm, 4 at 10cm and the rest at 25cm
   d. All at 20cm

6. **When do you should reinforce a tie beam?**
   a. Rockish soil

b. Gravish soil
c. Sandy and/or clayish soil
d. Answers (a), (b) and (c) are all correct.

7. What should be the concrete proportion to be used in a foundation?
a. 1 (cement), 8 (hormigon), 3 (big stone less than 10") y 1.0 (water)
b. 1 (cement), 10 (hormigon), 3 (big stone less than 10") y 1.5 (water)
c. 1 (cement), 12 (hormigon), 3 (big stone less than 10") y 1.5 (water)
d. 1 (cement), 10 (hormigon), 4 (big stone less than 10") y 1.0 (water)

8. What should be the concrete dosification to use in a RC tie beam?
a. 1 (cement), 2 (coarse sand), 4 (crushed stone 1/2") y 1.5 (water)
b. 1 (cement), 3 (coarse sand), 3 (crushed stone 1/2") y 1.5 (water)
c. 1 (cement), 3 (coarse sand), 4 (crushed stone 1/2") y 1.0 (water)
d. 1 (cement), 2 (coarse sand), 4 (crushed stone 1/2") y 1.0 (water)

9. What should be the concrete dosification to use in a confined column, ring beam and light slab?
a. 1 (cemento), 2 (arena gruesa), 3 (piedra chancada 1/2") y 1.0 (agua)
b. 1 (cemento), 3 (arena gruesa), 3 (piedra chancada 1/2") y 1.5 (agua)
c. 1 (cemento), 3 (arena gruesa), 4 (piedra chancada 1/2") y 1.0 (agua)
d. 1 (cemento), 2 (arena gruesa), 3 (piedra chancada 1/2") y 1.5 (agua)

10. How long should the maximum distance between confined columns be in case of bricks installed in the stretcher bond mode? (soga)
a. 4.5 m b) 4.0 m c) 3.5 m d) 3.0 m

11. How much thick should the mortar mix in a confined masonry wall?
a. Less than 1.0 cm.
b. from 1.0 to 1.5 cm.
c. More than 1.50 cm.
d. All the previous stated answers are correct.

12. How thick should be the concrete covering in structural elements when the finishing is with plaster or with polished surface?
a. 2.0 cm / 2.0 cm b) 2.5 cm / 2.5 cm c) 2.0 cm / 3.0 cm d) 3.0 cm / 3.0 cm

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

FIRST COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: PROTOTYPE DRAWINGS

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **Locate the prototype drawing.**
   Available money: S/. 19,000.00 — Land front: 6.30 m.
   Soil Type: granular — Available area: 35.00 m2
   Roof type: light slab — Electric Installations: available
   Sanitary installations: toilet — Answer: _____

2. **Locate the prototype drawing.**
   Available money: S/. 15,000.00 — Land front: 6.30 m.
   Soil type: Sandy — Área Available: 55.00 m2
   Roof type: cane — Electric installations: Available
   Sanitary installations: septic tank — Answer: _____

3. **Locate the prototype drawing.**
   Available money: S/. 15,000.00 — Land front: ample land
   Soil type: granular — Área Available: ample land
   Roof type: light — I.E.: Available
   Sanitary installations: toilet — Answer: _____

4. **Locate the prototype drawing.**
   Available money: There is no data — Frente del terreno: no information available
   Soil type: Sandy — Área Available: 35 m2
   Roof type: cane — Electric installations: Available
   Sanitary installations: septic tank — Answer: _____

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

SECOND COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: PROTOTYPE DRAWINGS

Name and Last names:_____

Province: _____ District: _____ Date: / /

Se debe determinar varias alternativas de prototipos según costos, áreas disponibles, etc., es decir no existe una sola solución.

1. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 14,000.00 — Available area: 10 x 25.00 m2.
   Soil Type: sandy — Roof type: light
   Electric installation: available — Sanitary Installations: septic tank

2. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 17,000.00 — Available area: 9 x 17.00 m2.
   Soil Type: sandy — Roof type: light
   Electric installation: available — Sanitary Installations: septic tank

3. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 14,000.00 — Available area: 10 x 25.00 m2.
   Soil Type: sandy — Roof type: light
   Electric installation: available — Sanitary Installations: septic tank

4. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 17,000.00 — Available area: 9.00 x 17.00 m2.
   Soil Type: sandy — Roof type: light
   Electric installation: available — Sanitary Installations: toilet

5. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 20,000.00 — Available area: 9.00 x 20.00 m2.
   Soil Type: sandy — Roof type: indifferent if it's light or cane
   Electric installation: available — Space necessity: two bedrooms

6. **Locate the prototype drawing that satisfy the following conditions:**
   Available money: S/. 12,000.00 — Available area: 10 x 25.00 m2.
   Soil Type: sandy — Roof type: indifferent if it's light or cane
   Electric installation: available — Sanitary Installations: toilet

7. **Find inside the prototype drawings Folder the number of the prototype located in the question 3. Print out in the adequate scale.**

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

FIRST COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: WATCHING MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **What does depth and width of foundation depend? (Do not misunderstand with excavation depth)**
   a) Soil quality and weight of the house.
   b) It's about the earthquake threat
   c) It depends only of the soil.
   d) Options a) and b) are correct.

2. **Why do you have to draw crossed lines on the foundation surface during the forge (before hardening)?**
   a) Because it's a tradition
   b) It isn't important to draw line son the foundation surface.
   c) In order that foundation becomes more resistant.
   d) In order to have a better adherence with tie beam.

3. **Where does the column critical zone begin? so from this point hoops have to be installed.**
   a) In the foundation upper surface, that is in the foundation and tie beam contact zone.
   b) In the tie beam upper surface, that is in the tie beam and wall contact zone.
   c) From the half of the tie beam height, that is at the height of the floor level.
   d) None of the previously stated answer is correct.

4. **What does it means "emplantillar" (install the first rows of bricks)**
   a) Show two brick rows without mortar.
   b) Make a model and install at the wall sides.
   c) Install the "escantillón with the cord that indicates the horizontal level of the brick row.
   d) None of the previously stated answer is correct.

5. **When is a wall considered as a confined masonry wall?**
   a) When the four sides of the wall are in contact with concrete elements.
   b) When the wall is "head" type.
   c) When the wall longitude is longer than 1.2 m. y and less than 5.0 m.
   d) Options b) and c) are correct.

STUDY ON HOUSING RECONSTRUCTION WITH SEISMIC-RESISTANCE HOUSES IN THE REPUBLIC OF PERU

PILOT PROJECT 1.0 : FACILITATION OF SAFER HOUSING RECONSTRUCCION

SECOND COMPREHENSION TEST OF THE ON THE JOB TRAINING
Subject: WATCHING MANUAL

Name and Last names:_____

Province: _____ District: _____ Date: / /

1. **If the ditch bottom soil is difficult to level, What solution can you give?**
   a) Continue excavating until it can be levelled.
   b) Excavate 10 cm more and pour a poor concrete mix of 1:12 (cement:hormigon)
   c) Aggregate more wáter to the bottom of the foundation.
   d) None of the previous stated answers

2. **What does depth and width of foundation depend? (Do not misunderstand with excavation depth)**
   a) Soil quality and weight of the house.
   b) It's about the earthquake threat
   c) It depends only of the soil.
   d) Options a) and b) are correct.

3. **What shall be done when the foundation or tie beam pooring has to be stopped?**
   a) Make a vertical joint leaving some protruding stones.
   b) Make a horizontal joint leaving some protruding stones
   c) Make a diagonal joint leaving some protruding stones
   d) Joints should not be made, it is not recommended to stop pouring.

4. **Which is the better procedure to prepare a concrete?**
   a) Mix cement with wáter and then the aggregates
   b) Mix the aggregates with wáter and then the cement.
   c) Mix all the materials together.
   d) Mix cement with aggregates and then wáter

5. **Why is it important to wet the concrete (curing) after the formwork is retired?**
   a) Because it is a custom.
   b) Because plaster adheres better.
   c) Because concrete will have a better hardening (at least 7 days)
   d) Because concrete will have a better finishing.

6. **Concrete pouring in a confined column is considered from …**
   a) The foundation bottom level.
   b) The bottom of the tie beam (contact zone between foundation and tie beam)
   c) The level of the wall bottom (contact zone between the tie beam and the wall)
   d) At half of the foundation.

7. Is it possible to joint reinforcement steel in a confined column of the first floor of a house?

a)yes b) No c) It's indifferent d)Yes, but with conditions

8. **How much should be the reinforcement steel bending of a structural element when it is anchored to another structural elemnt?**

a) 10 cm. b) 15 cm. c) 20 cm. d) 25 cm.

9. Where does the column critical zone begin? so from this point hoops have to be installed.

a) In the foundation upper surface, that is in the foundation and tie beam contact zone.
b) In the tie beam upper surface, that is in the tie beam and wall contact zone.
c) From the half of the tie beam height, that is at the height of the floor level.
d) None of the previously stated answer is correct.

10. In what zones can the structural elements steel be overlapped? (except in the first floor confined column)

a) At any place.
b) In the intermediate part of the structural elements.
c) At the third of the structural elements.
d) In the joint zone of the confined columns and ring beam.

11. What does it means "emplantillar" (install the first rows of bricks)

a) Show two brick rows without mortar.
b) Make a model and install at the wall sides.
c) Install the "escantillón with the cord that indicates the horizontal level of the brick row.
d) None of the previously stated answer is correct.

12. Why is it important to make a model of confined wall before building it?

a) Because the quantity of rows in a wall can be determined
b) Because it can be determined the uniformity of the horizontal joints.
c) Because it can be defined the uniformity of the vertical joints and how will be the joint of the wall with confined column.

13. Which is the best connection between a wall and a confinement column?

a) Dented connection.
b) Connection at the same level with two ¼" steel bars every four brick rows.
c) Option b) is valid only whe I need to make enlargements.
d) Options a) and b) are valid válidas por igual

14. Why should not be built more than 1.20 m. wall height in a day?

a) Because the fresh mortar of the first rows can be damaged.
b) Because a stand is needed.
c) Because in that way more yield is obtained.
d) None of the previous answers are correct

15. Why is it important to pour concrete at the same time in the ring beam and light slab?

a) Because the slab and the ring beams should form a monolythic element.
b) The slab can be poured independently of the ring beams.
c) Because the slab load is transferred better to the ring beams.
d) Options a) and c) are correct.

16. What have to do when you need to stop the pouring of a light slab?

a) Make a vertical joint.
b) Make a horizontal joint.
c) Make a diagonal joint.
d) Pouring should never be stopped.

Appendix 13

TESTS RESULTS OF ON-JOB-TRAINING FOR TECHNICAL OFFICERS OF PUBLIC WORK SECTION IN DISTRICT MUNICIPALITY

SHEET OF CONTROL OF PARTICIPANTS IN OJT

Province: ICA

District: LA TINGUIÑA

Municipal worker on OJT	Time of training (hours)					First Test (grade)					Remarks of the trainer	Second Test (grade)				
	Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching	Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching		Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching
TEOFILO FLORES TORRES	10	10	8	6	10	15	20	20	12	8	CHIEF OF PUBLIC WORKS SAID THAT MUNICIPALITY IS INTERESTED. HIS RESPONSABILITIES DONT LET HIM BE MORE TIME IN OJT	14	17	14	16	12
SANDRA ORE HURTADO	12	10	10	8	12	11	20	15	20	16	ENGINEER VERY INTERESTED IN THE ISSUES OF OJT. SHE WAS MORE TIMES IN OJT THAN OTHERS	20	20	17	16	14
JUSTO CARGUAS HUAMAN	8	8	8	6	10	16	17	15	8	16	FULL TIME PERSONEL IN CHARGE OF CADASTRE OFFICE. HIS JOB DONT LET HIM BE MUCH TIME IN OJT. UNDERSTOOD ALL THE ISSUES, HE SAID THAT THIS INFORMATION WILL BE DISEMINATED EVEN AFTER THE PERMANENCE OF THE MAYOR IN MUNICIAPALITY	14	17	14	20	14

SHEET OF CONTROL OF PARTICIPANTS IN OJT

Province: CHINCHA | District: PUEBLO NUEVO | Date: 09/11/08

Municipal worker on OJT	Time of training (hours)					First Test (grade)					Remarks of the trainer	Second Test (grade)				
	Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching	Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching		Prototype Drawings	Minimum Requirements	Manual of Building Permit	Manual of Inspection	Manual of Watching
1. RAUL ALBERTO LEANDRO ORTEGA	6	4	4	1.5	4	3.0	13.0	10.0	12.0	16.0	Participant is interested and wants to learn. He asisted all sesions of OJT and was punctual. Have some problems in the selecction of prototype drawings.	11.0	14.0	15.0	12.0	14.0
2. CESAR VERGARA CARDENAS	6	4	2	1.5	4	13.0	20.0	15.0	12.0	8.0	Only engineer in OJT. Show positive attitude and learn fast, even hes an agronomist engineer. Get good qualifications but had some mistakes in test of watching manual and building permit manual.	16.0	16.0	5.0	12.0	12.0
3. JESUS VELASQUEZ FLORES	2	[redacted]	2	[redacted]	2	13.0			12.0		Doesnt have regularity in OJT. The results of tests are positive. Claims lot of work		16.0	10.0		14.0
4. JAIME GALA TASAYCO	2	4	2	[redacted]	4	9.0	17.0		12.0		Had some absents in the OJT. Took 3 tests with acceptable results. Absent last OJT		14.0	20.0	12.0	10.0
5. MODESTA VELARDE CAMPOS	6	4	4	1.5	4	14.0	17.0	15.0	8.0	16.0	Good participation in all OJT. As a secretary, shee knows very well the administrative work. Good qualifications and learn fast	17.0	14.0	15.0	8.0	9.0
6. HECTOR HERNANDEZ PACHAS	6	4	2	1.5	4	9.0	17.0	15.0	8.0	12.0	Good participation in all OJT	16.0	13.0	5.0	12.0	8.0

3-A13-2

SHEET OF CONTROL OF PARTICIPANTS IN OJT

Province: PISCO

District: INDEPENDENCIA

Municipal worker on OJT	Time of training (hours)					First Test (grade)					Remarks of the trainer	Second Test (grade)				
	Prototype Drawings	Minimum Requirements	Manual of Building	Manual of Inspection	Manual of Watching	Prototype Drawings	Minimum Requirements	Manual of Building	Manual of Inspection	Manual of Watching		Prototype Drawings	Minimum Requirements	Manual of Building	Manual of Inspection	Manual of Watching
1. JULIO HUAYTA	10	14	10	12	10	10	20	20	20	16	PROFESSIONAL VERY COLABORATOR AND HAVE PREDISPOSITION FOR THE OJT. TAKE PART IN THE OJT AND FORMULATE GOOD QUESTIONS REGARDING THE TRAINING. GIVE SOME COMMENTS OF THE CONSTRUCTION IN THE AREA	15	20	16	20	16
2. ORLANDO LUZA	10	14	10	12	10	15	16	20	12	16	PROFESSIONAL VERY COLABORATOR AND HAVE PREDISPOSITION FOR THE OJT. ANALIZE AND THINK ABOUT THE CONSECUENCES POSITIVES AND NEGATIVES OF THE PROJECTS. GOOD QUESTIONS. GOOD ORGANIZATION	15	16	16	16	15

Appendix 14

MUNICIPALITY RESOLUTION OF PROJECT BANK

MUNICIPALIDAD DISTRITAL DE INDEPENDENCIA

PISCO - ICA

LEY Nº 9637 DEL 29 DE OCTUBRE DE 1942

ACUERDO DE CONCEJO Nº 085-2008-ALC-MDI/P.

Independencia, 24 de Octubre del 2008

VISTOS:

En la Sesión Ordinaria de fecha 24 de Octubre del año 2008, celebrado por el Pleno del Concejo Municipal del Distrito de Independencia ha debatido la necesidad de Aprobar la creación del Banco de PROYECTO DE LA Municipalidad Distrital de Independencia promovida por la corporación Japonesa JICA , que permitirá a la Municipalidad un mejor desenvolvimiento en la elaboración de proyectos , Perfiles y todo lo necesario para dotar de una mejor infraestructura para el desarrollo institucional., y

CONSIDERANDO:

Que, el Art. 194º de la Constitución Política del Estado, modificado por la Ley de Reforma Constitucional Nº 27680, y concordante con el Art. II del título preliminar de la Ley Orgánica de Municipalidades Nº 27972, quienes prescriben que las Municipalidades gozan de autonomía política, económica y administrativa en los asuntos de su competencia y de acuerdo a la ley de la materia.

Que, en la Sesión de la fecha; la Municipalidad ha debatido la necesidad de Aprobar la creación del Banco de Proyecto de la Municipalidad Distrital de Independencia promovida por la corporación Japonesa JICA, que permitirá a la Municipalidad un mejor desenvolvimiento en la elaboración de Proyectos, Perfiles, Estudio de Proyectos para beneficio de la Población por tal razón se ha visto con buenos ojos la creación de un Banco técnico con dicho fin

Que, asimismo debe tenerse presente que el citado Banco de Proyectos reforzara el sistema de Obras tanto al que va a construir, así como adecuar y mejorar un mejor servicio a través de la Unidad de Obras , por lo que siendo ello así debe aprobarse el citado Banco de Proyecto para los efectos antes indicado.

Estando a lo expuesto por los Artículos 9º y 32º de la Ley Orgánica de Municipalidades Nº 27972 y luego del debate correspondiente y con la aprobación unánime de los señores miembros del magno Concejo de la Municipalidad Distrital de Independencia.

SE ACUERDA:

ARTICULO UNICO: APROBAR La Creación de un Banco de Proyectos para la Municipalidad Distrital de Independencia, la misma que estar adscrita al área de Obras de la entidad antes citada; el citado Banco de Proyectos estará a cargo del Ingeniero JOAN HUGO GUARDIA, quien coordinará estrechamente con el área de Obras, para la evaluación y elaboración de Estudios y Proyectos, Elaboración de Perfiles y otros de vital importancia.-

REGISTRESE COMUNIQUESE Y CUMPLASE.

MUNICIPALIDAD DISTRITAL DE
PUEBLO NUEVO
PROVINCIA DE CHINCHA

RESOLUCION N° 4377-A-MDPN/2008

Pueblo Nuevo, 19 de Noviembre de 2008

EL ALCALDE DE LA MUNICIPALIDAD DISTRITAL DE PUEBLO NUEVO

VISTO:

La Carta de JICA-SS-051/2008, presentado por el Ing. ICHIRO KOBAYACHI, representante del Equipo Técnico de JICA, solicitando Aprobación de Proyectos Típicos de edificaciones a construirse en el Distrito de Pueblo Nuevo, elaborado por MASTER BUILDING INGENIEROS SAC., los mismos que integraran el Banco de Proyectos de la Municipalidad.

CONSIDERANDO:

Que, el proponente presenta 4 Proyectos de Construcción de una vivienda para su ejecución en 4 etapas. En el área mencionada se considera los siguientes ambientes:

Prototipo N° 1 (16 Tipos de 3.00 x 4.90=16.38 m²)

- Dormitorio

Prototipo N° 2 (16 Tipos de 6.25 x 6.25=35.47 m²)

- Sala – Comedor
- Dormitorio (1)
- SS.HH.

Prototipo N° 3 (16 Tipos de 6.25 x 8.20=43.23 m²)

- Sala – Comedor
- Dormitorio (1)
- SS.HH.
- Cocina

Prototipo N° 4 (16 Tipos de 6.25 x 8.20=53.13 m²)

- Sala – Comedor
- Dormitorio (2)
- SS.HH.
- Cocina

Que, derivado el Proyecto a la camisión Revisiora esta aprueba los planos del proyecto de acuerdo a las especialidades: Arquitectura, Estructura, Instalaciones Eléctricas e Instalaciones Sanitarias.

Lic. LUCIO JUAREZ OCHOA
ALCALDE

Dirección: Av. Óscar R. Benavides N° 699
Plaza de Armas - Pueblo Nuevo

Teléfono: (056)262301
Telefax : (056)265459

SE RESUELVE:

Artículo Primero: Aprobar los Planos de los 4 Prototipos de Módulos de Viendas Típicos de 1 nivel de área techada del: Prototipo N° 1 de 16.38 m², Prototipo N° 2 de 35.47 m²., Prototipo N° 3 de 43.23 m². y Prototipo N° 4 de 53.13 m²., los mismos que estarán a disposición de los moradores del Distrito en forma gratuita y de acuerdo a su disponibilidad económica.

Artículo Segundo: Los Planos de los Prototipos de los Módulos de Viviendas aprobados, formarán parte del Banco de Proyectos de la Municipalidad Distrital de Puevlo Nuevo.

Regístrese, comuníquese y archívese.

C.c
- Solicitante
- Rentas
- Obras
- Archivo

MUNICIPALIDAD DISTRITAL DE PUEBLO NUEVO
PROVINCIA DE CHINCHA

Lic. LUCIO JUÁREZ OCHOA
ALCALDE