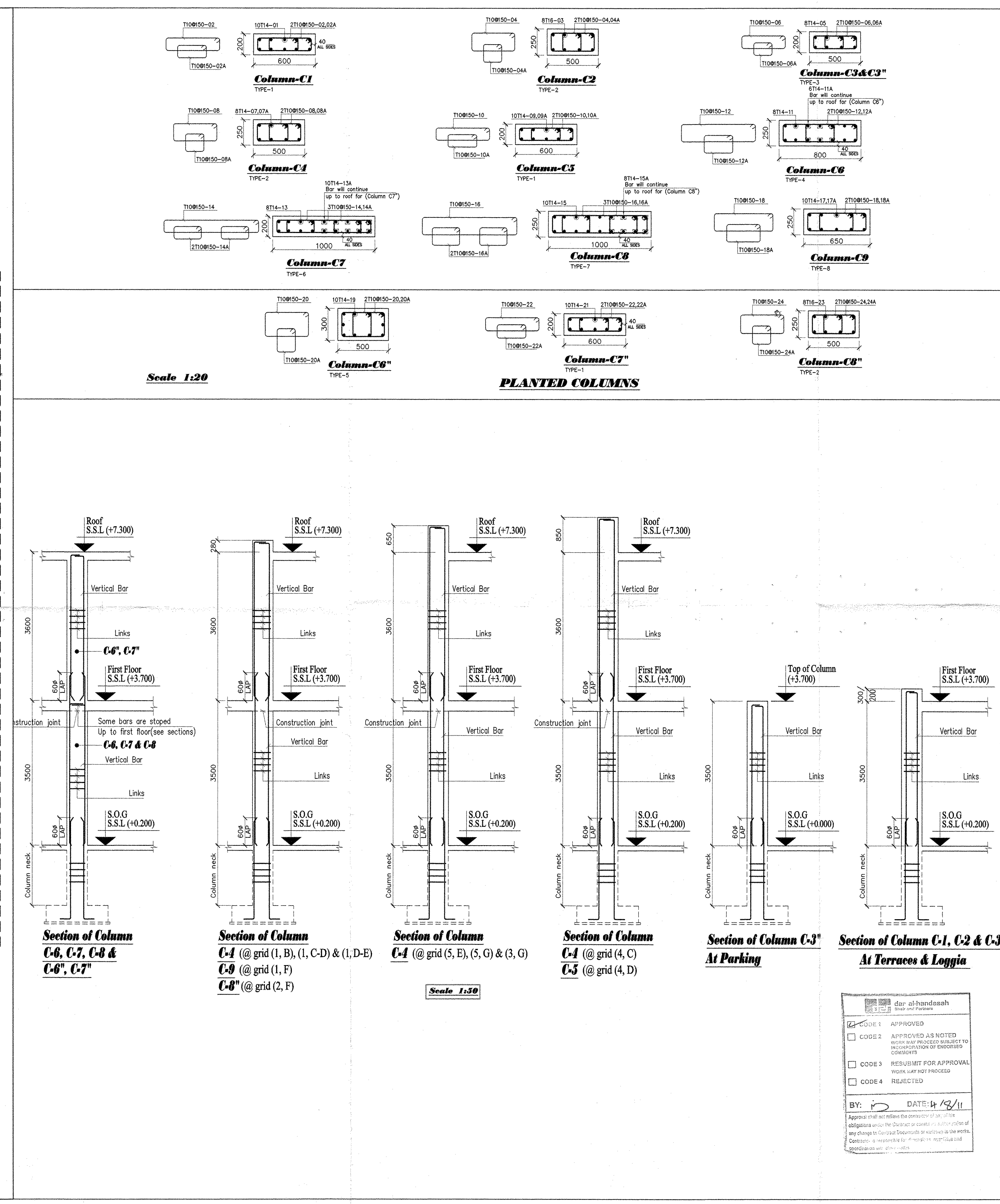
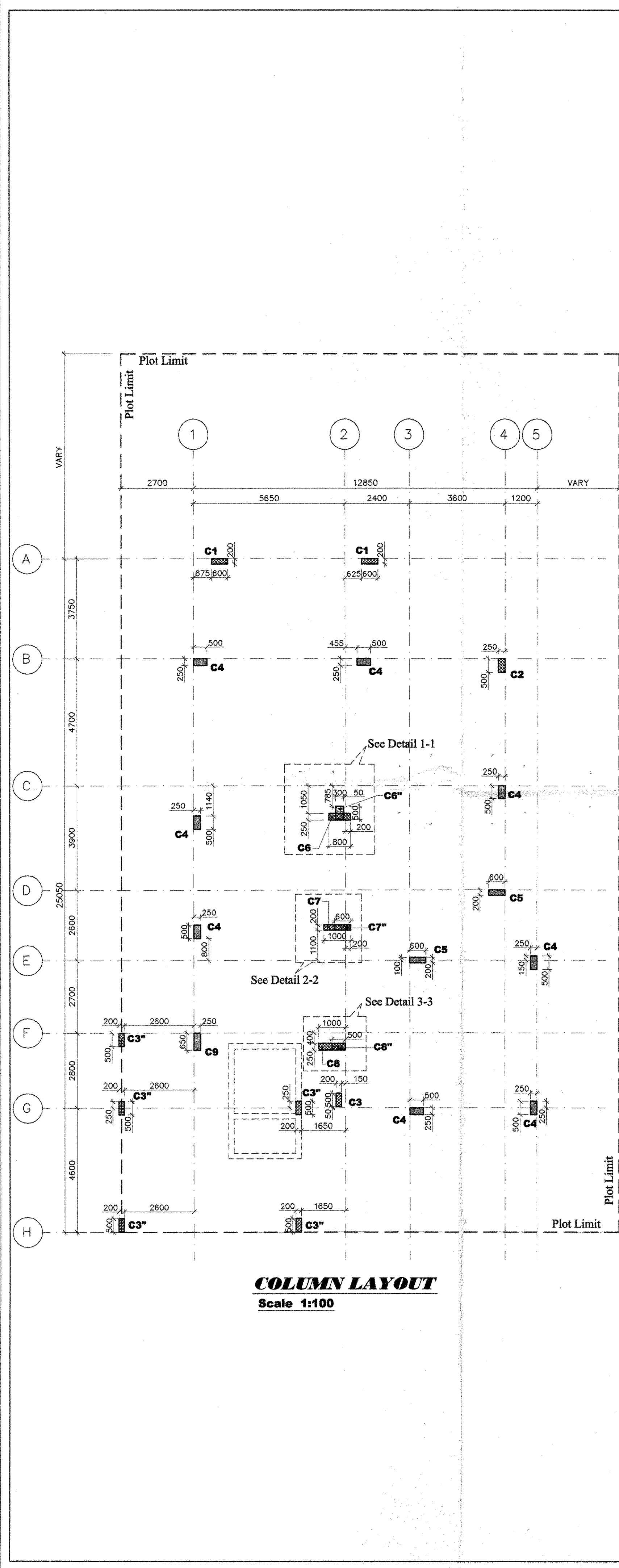




**KEY PLAN**

**Package -2**

|  | A        | B                 | C            | D           |
|--|----------|-------------------|--------------|-------------|
|  | APPROVED | APPROVED AS NOTED | NOT APPROVED | INFORMATION |

Names & Position: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**NOTES:-**

- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE METERS UNLESS NOTED OTHERWISE.
- 2) ALL REINFORCEMENT EXCEPT TIES & STIRRUPS UNLESS OTHERWISE INDICATED TO BE HIGH TENSILE STEEL TO BS 4449 HAVING A MINIMUM YIELD STRESS  $f_y = 420$  MPa (DESIGNATED BY ...).
- 3) ALL REINFORCED CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS:  $f_c = 35$  MPa.
- 4) ALL PLAIN CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS:  $f_c = 14$  MPa.
- 5) COLUMNS ARE MADE WITH OPC.
- 6) ALL SPLICES OF REINFORCEMENT SHOULD BE MIN. 60 BAR DIAMETER.
- 7) UNLESS OTHERWISE NOTED, THE FOLLOWING NOMINAL CONCRETE COVER TO ALL REINFORCING BARS SHALL BE ADOPTED:  
a - FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER : 30mm.  
b - FOR BASEMENT WALLS : 50mm.  
c - FOR DROP BEAMS AND COLUMNS : 40mm.  
d - FOR FOUNDATIONS : 75mm.  
e - FOR ALL SURFACES IN CONTACT WITH WATER OR VAPOUR : 50mm.
- 8) FOOTING LEVELS AS PER APPROVED FOUNDATION FORMATION LEVEL.

**Legend**

- Column up to (+3.700)
- Column up to (+7.300)
- Planted Column from (+3.700) to (+7.300)

**AS BUILT DRAWING**

**JUMAIRAH PARK**

**NAKHEEL**

**dar al-handasah**  
shair and partners

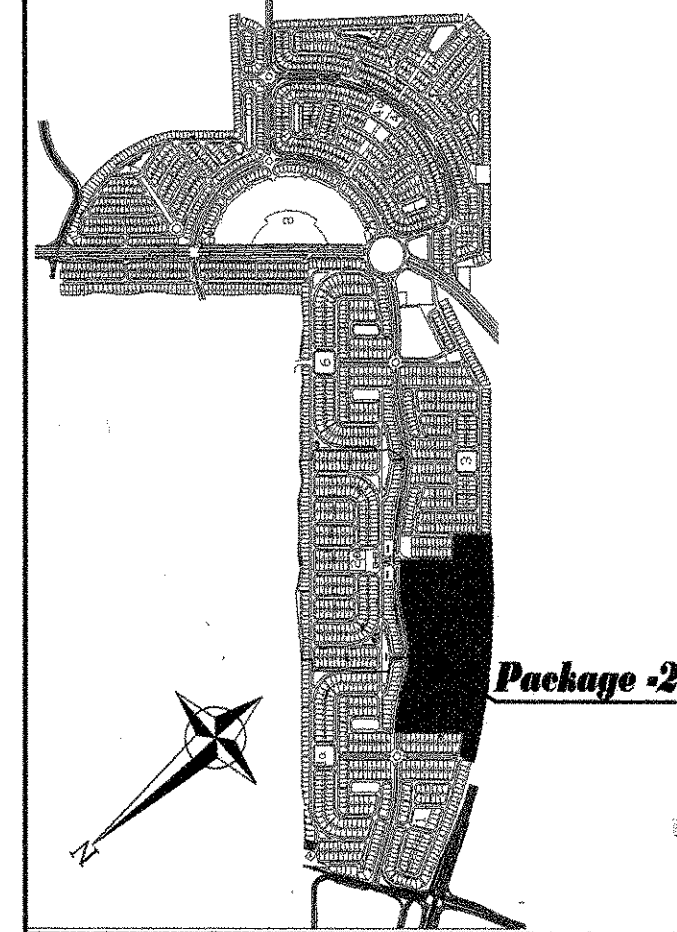
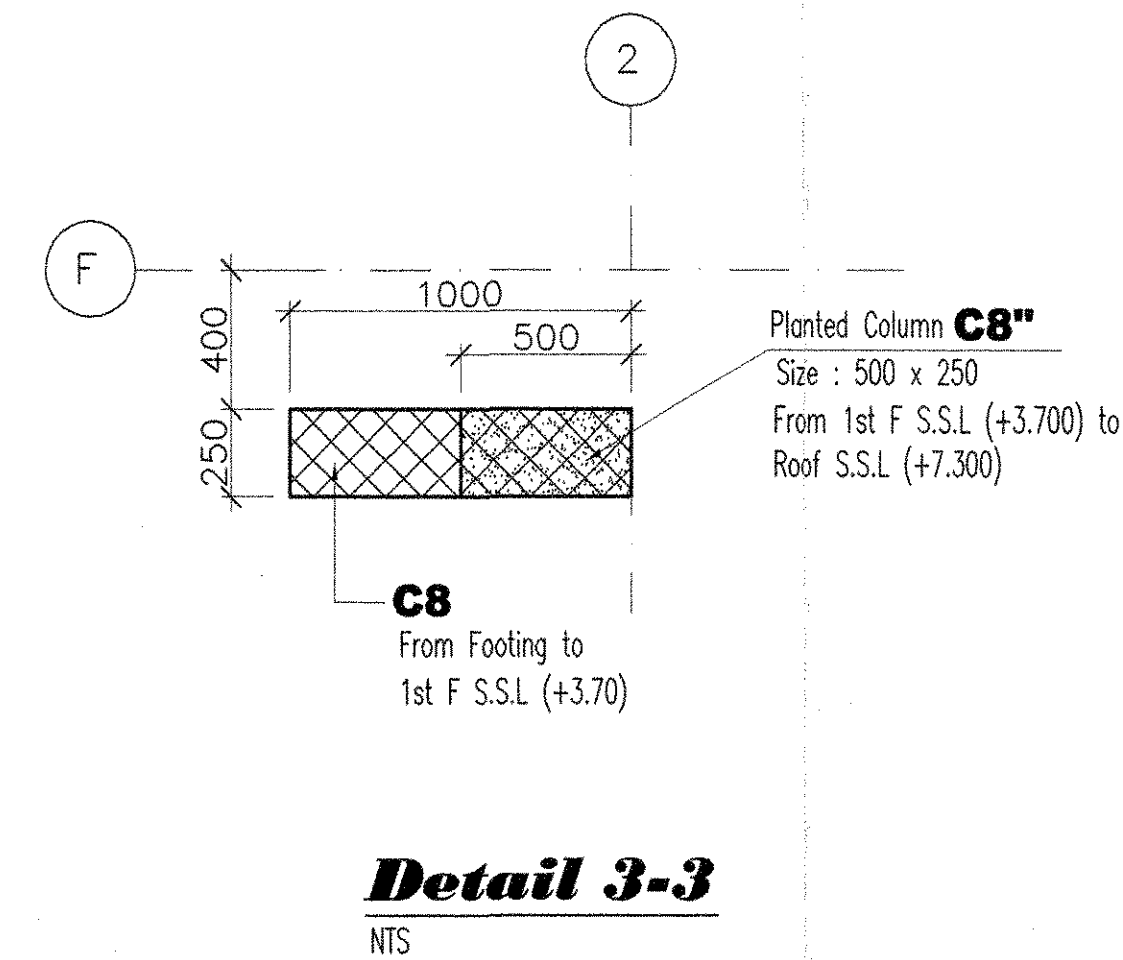
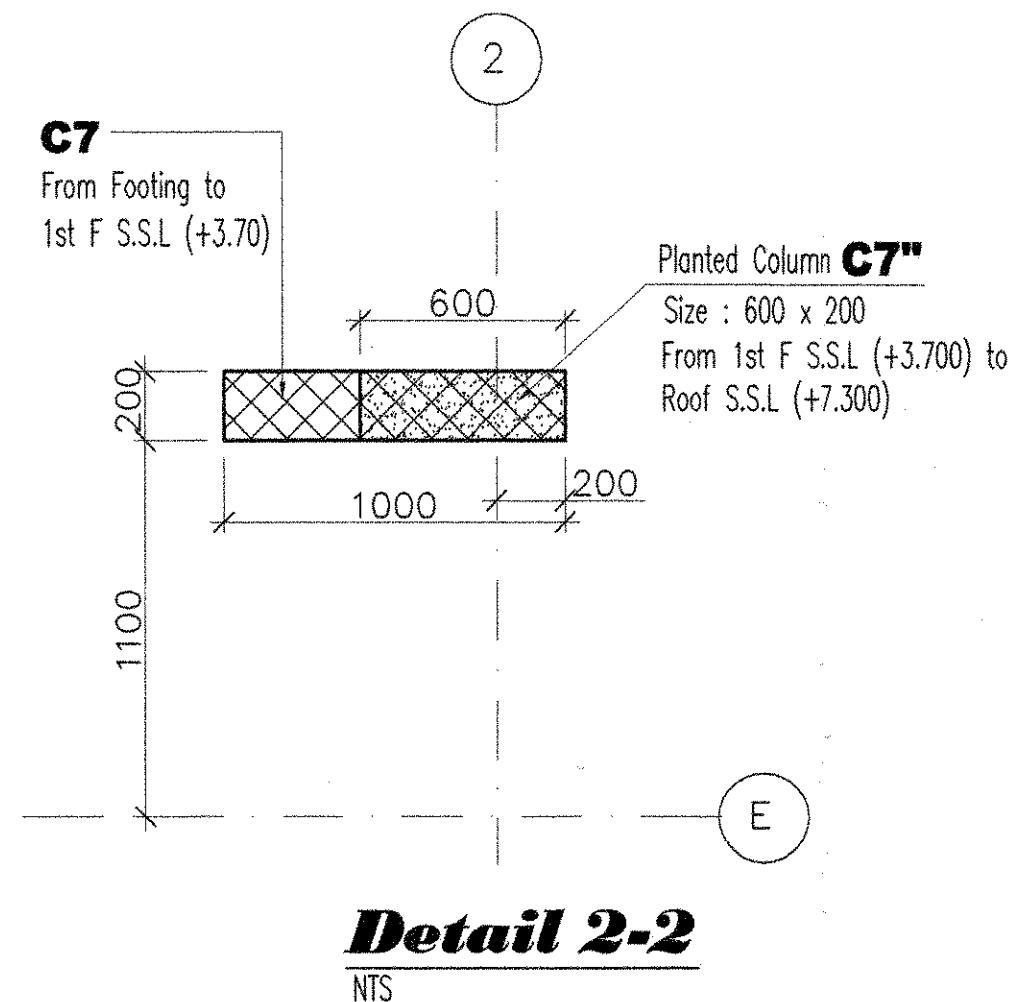
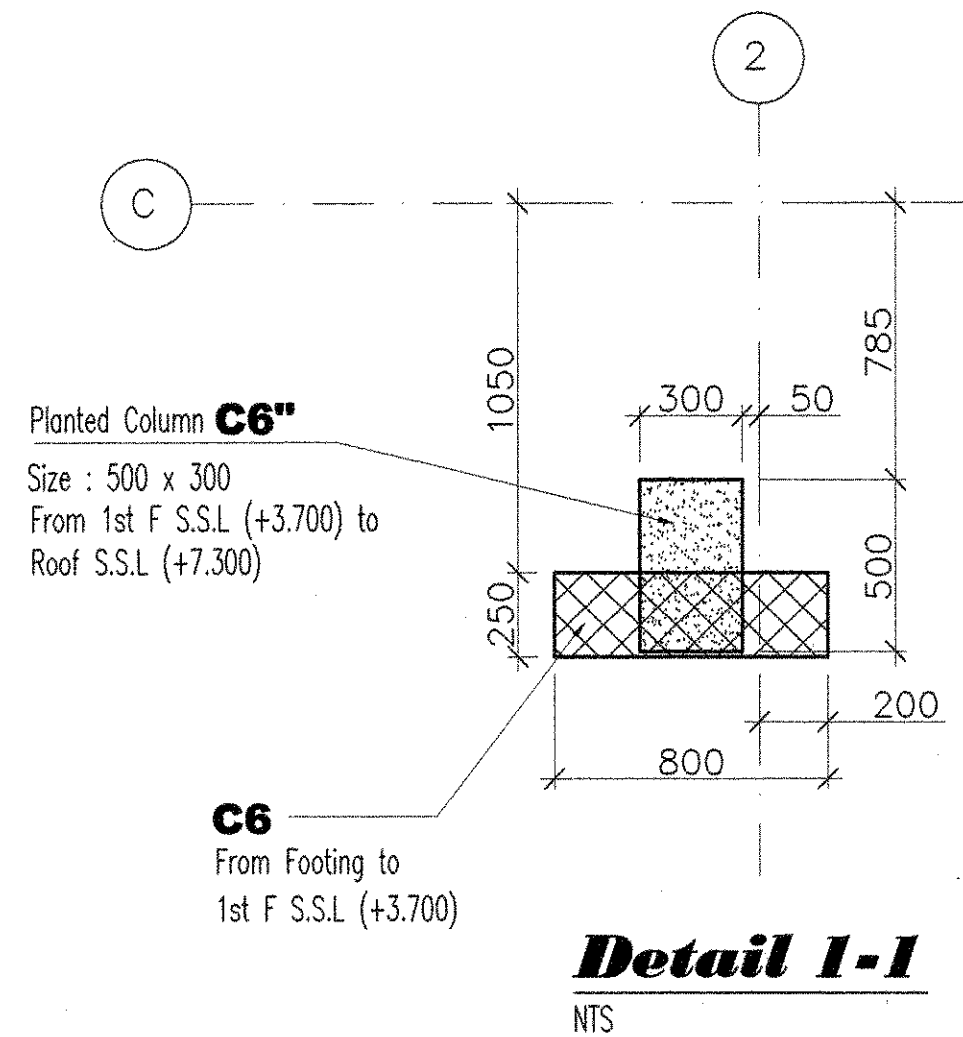
**Pauling Middle East**

**PACKAGE - 2**

**COLUMN LAYOUT**  
TYPE : LEGACY  
1 of 2

Drawn: T.Murugan Review: Eng. Zyed Eng. Ghassan Zeinoun  
Scale: AS SHOWN Date: 30-07-2011 Approved: \_\_\_\_\_

**PME / JP / AB / LEGACY / STR-04**



| KEY PLAN                 |   |                   |
|--------------------------|---|-------------------|
| <input type="checkbox"/> | A | APPROVED          |
| <input type="checkbox"/> | B | APPROVED AS NOTED |
| <input type="checkbox"/> | C | NOT APPROVED      |
| <input type="checkbox"/> | D | INFORMATION       |

| Name & Position | Signature | Date |
|-----------------|-----------|------|
| Designer        |           |      |

- NOTES:-**
- ALL DIMENSIONS ARE IN MM AND LEVELS ARE METERS UNLESS NOTED OTHERWISE.
  - ALL REINFORCEMENT EXCEPT TIES & STIRRUPS UNLESS OTHERWISE INDICATED TO BE HIGH TENSILE STEEL TO BS 4449 HAVING A MINIMUM YIELD STRESS  $f_y = 420 \text{ MPa}$  (DESIGNATED BY  $\Phi$ ).
  - ALL REINFORCED CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS:  $f_{cd} = 35 \text{ MPa}$ .
  - ALL PLAIN CONCRETE SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CYLINDER AT 28 DAYS:  $f_{cd} = 14 \text{ MPa}$ .
  - COLUMNS ARE MADE WITH OPC.
  - ALL SPLICES OF REINFORCEMENT SHOULD BE MIN. 60 BAR DIAMETER.
  - UNLESS OTHERWISE NOTED, THE FOLLOWING NOMINAL CONCRETE COVER TO ALL REINFORCING BARS SHALL BE ADOPTED:
    - a - FOR SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER: 30mm.
    - b - FOR BASEMENT WALLS: 50mm.
    - c - FOR DROP BEAMS AND COLUMNS: 40mm.
    - d - FOR FOUNDATIONS: 75mm.
    - e - FOR ALL SURFACES IN CONTACT WITH WATER OR VAPOUR: 50mm.
  - FOOTING LEVELS AS PER APPROVED FOUNDATION FORMATION LEVEL.

- Legend**
- Column up to (+3.700)
  - Column up to (+7.300)
  - Planted Column from (+3.700) to (+7.300)



## AS BUILT DRAWING

Project  
**JUMAIRAH PARK**

Employer  
**NAKHEEL**

Consultant  
**dar al-handasah**  
wharafa partners

Main Contractor  
**Pauling Middle East**

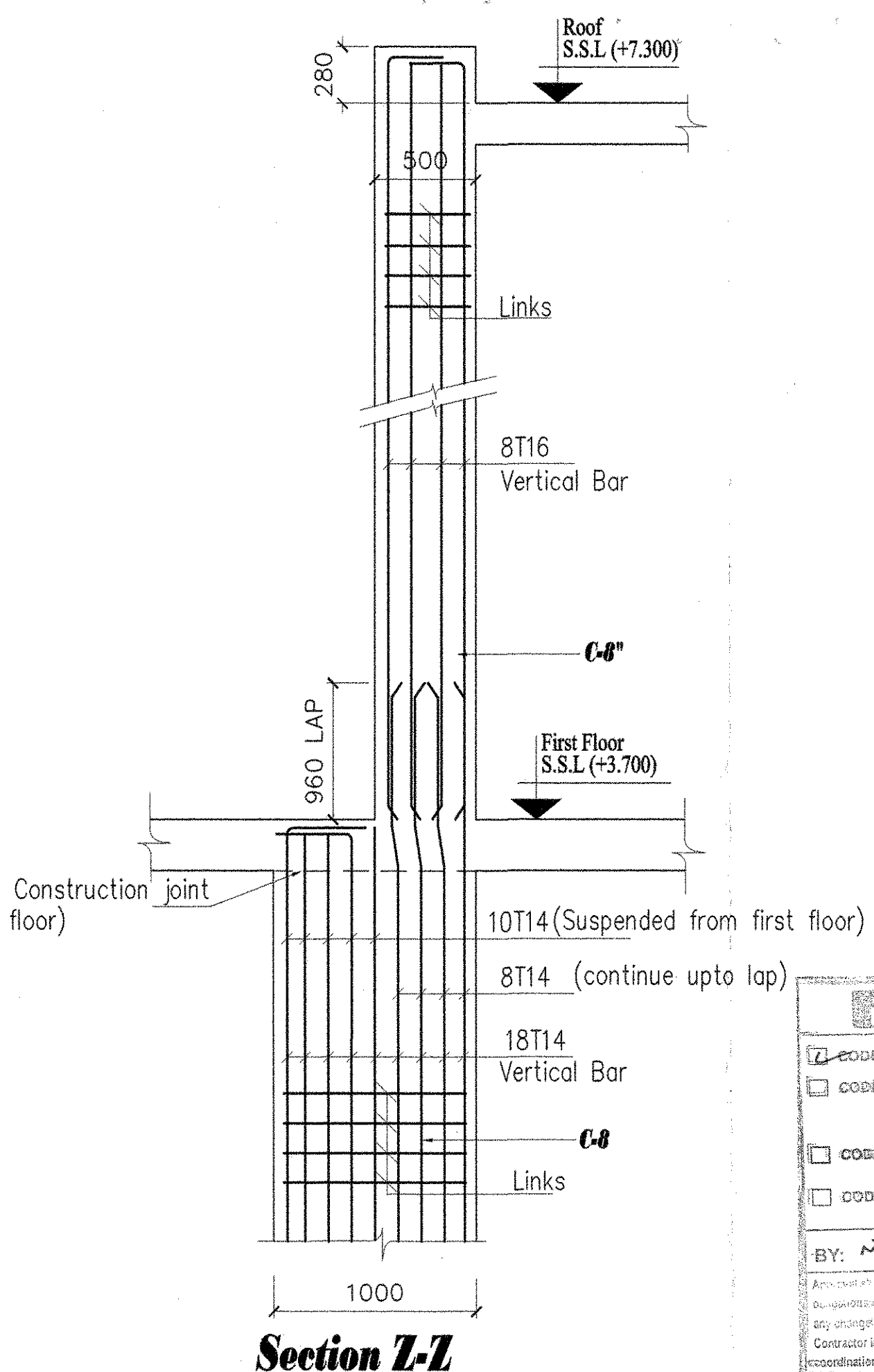
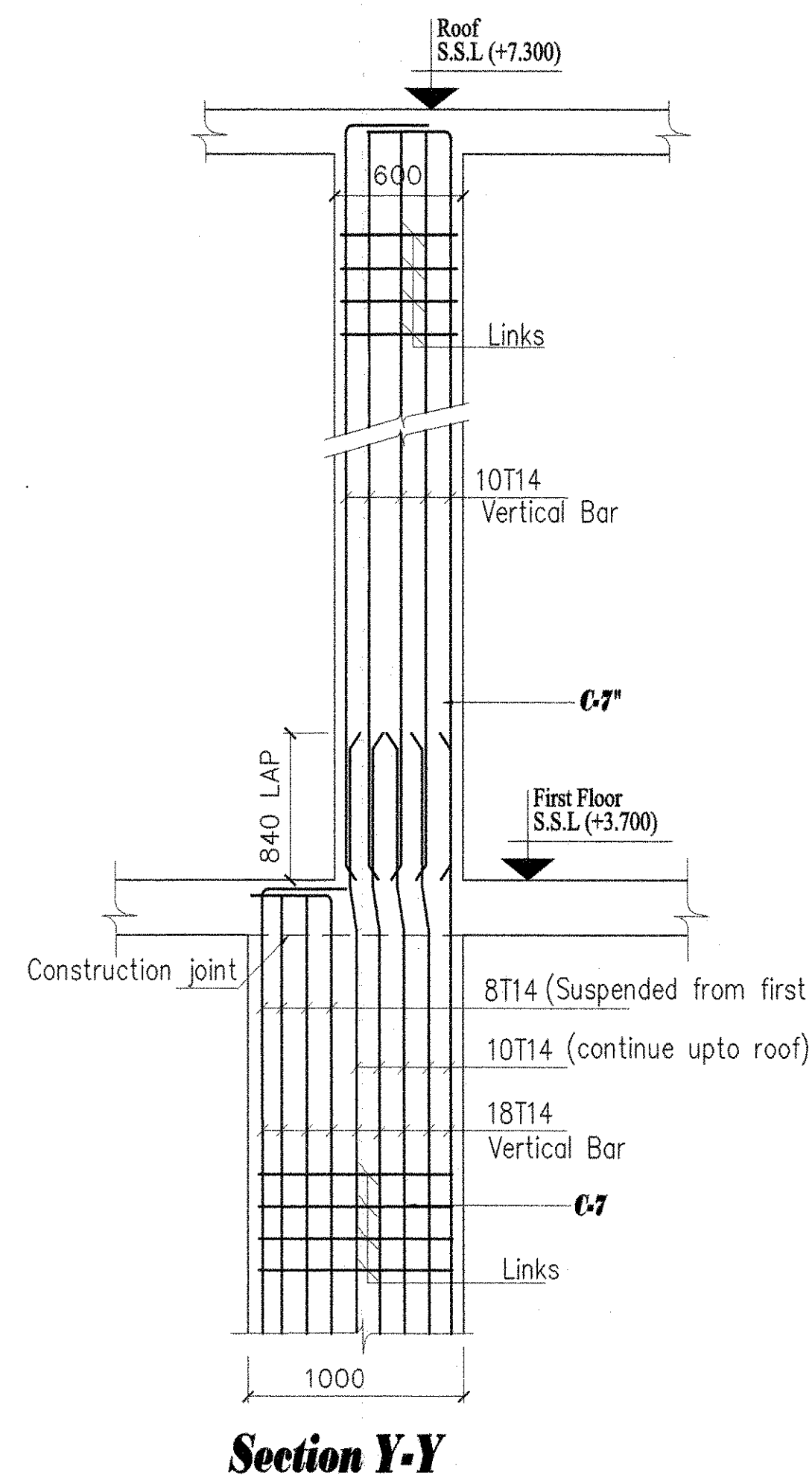
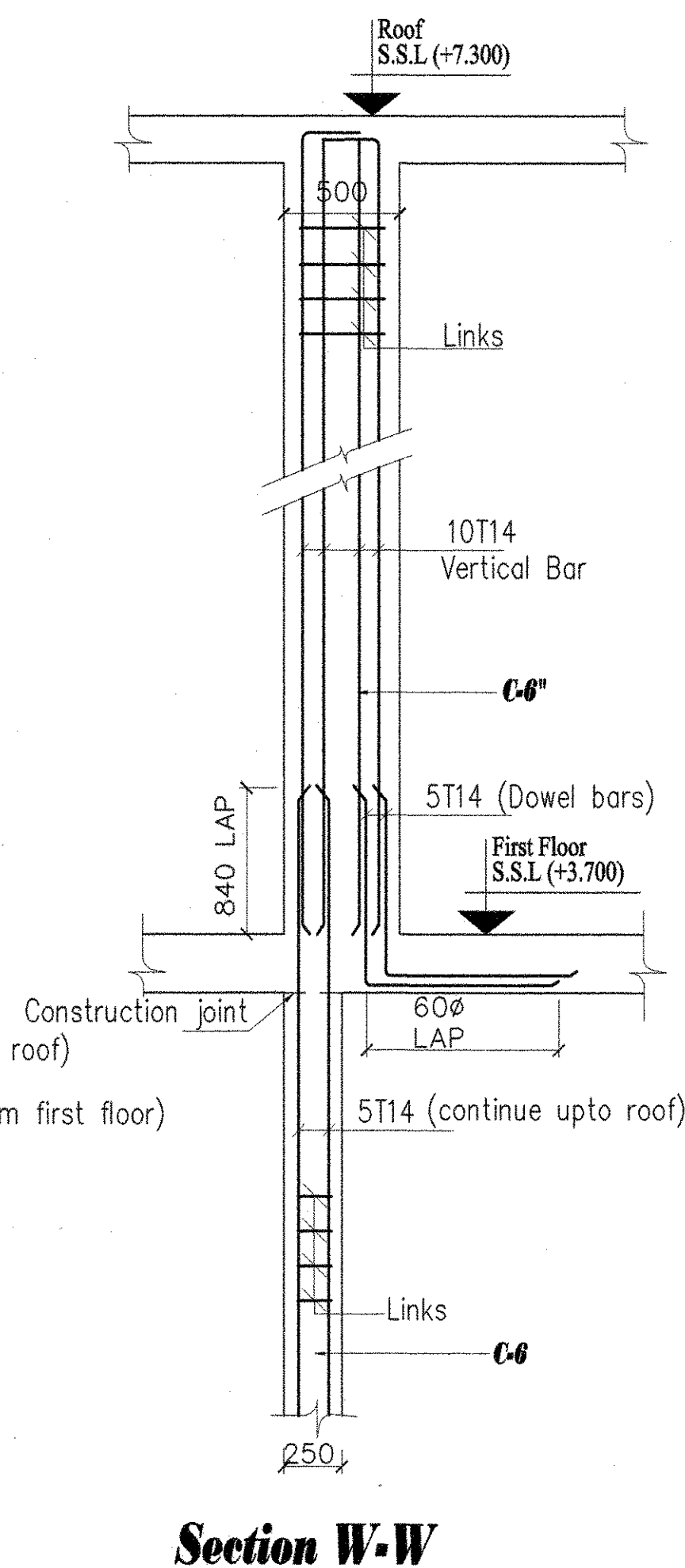
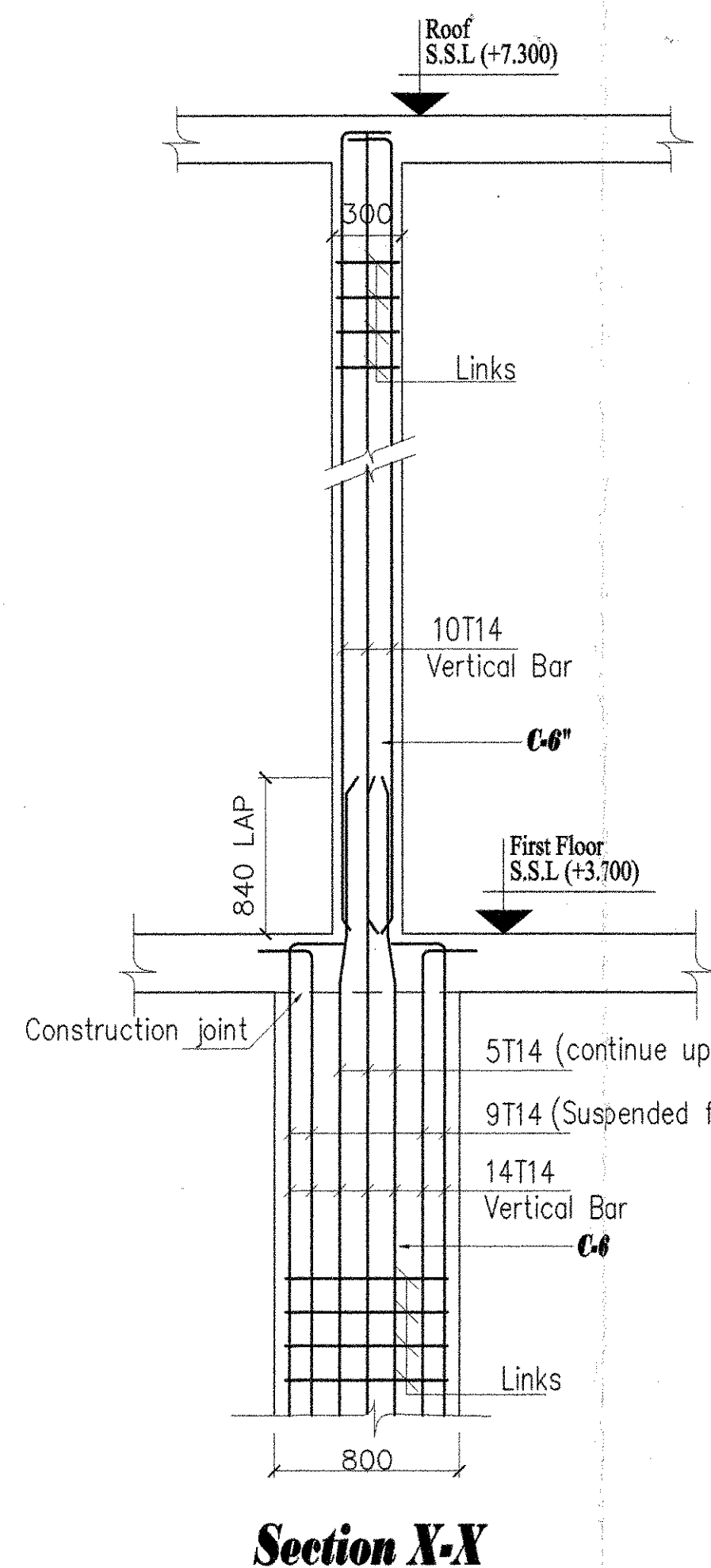
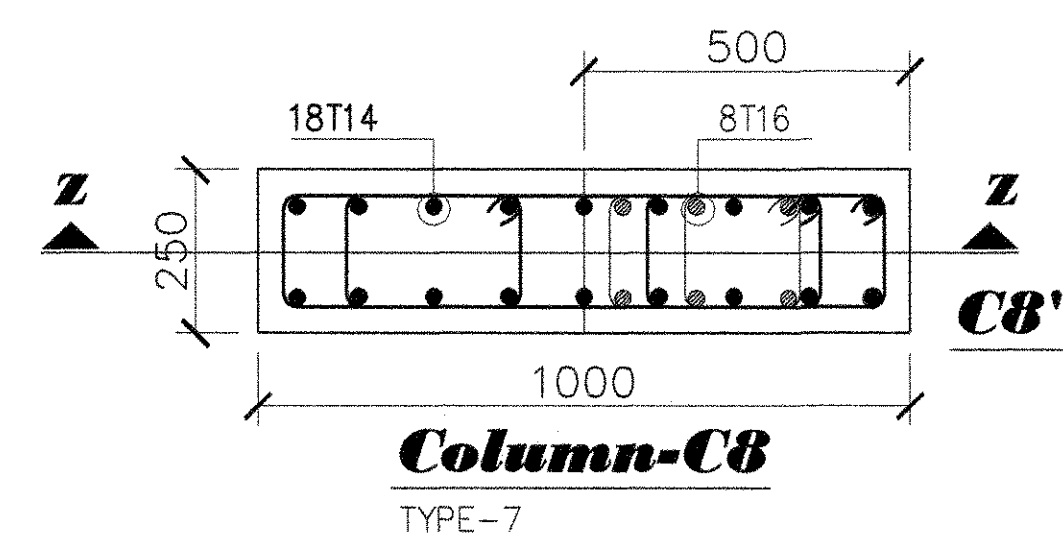
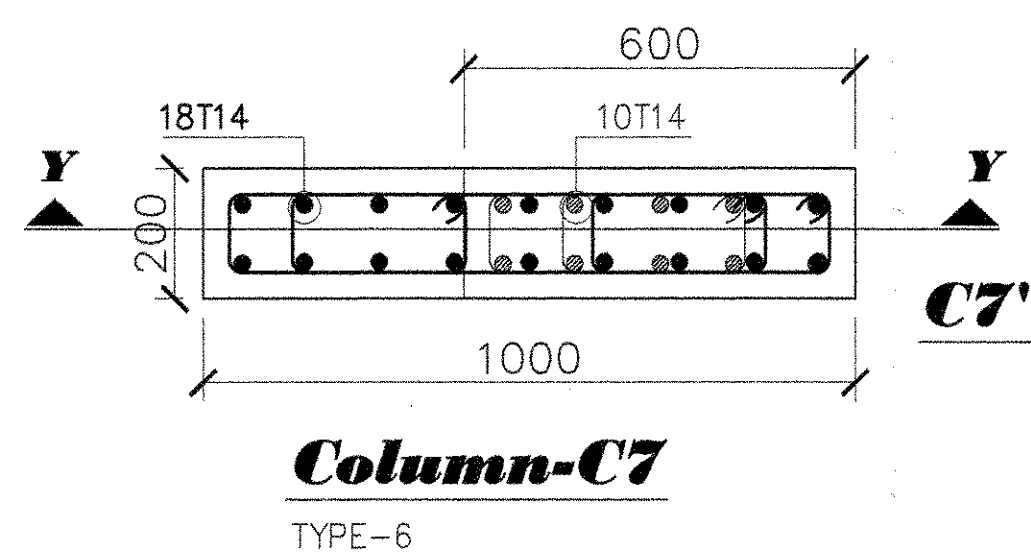
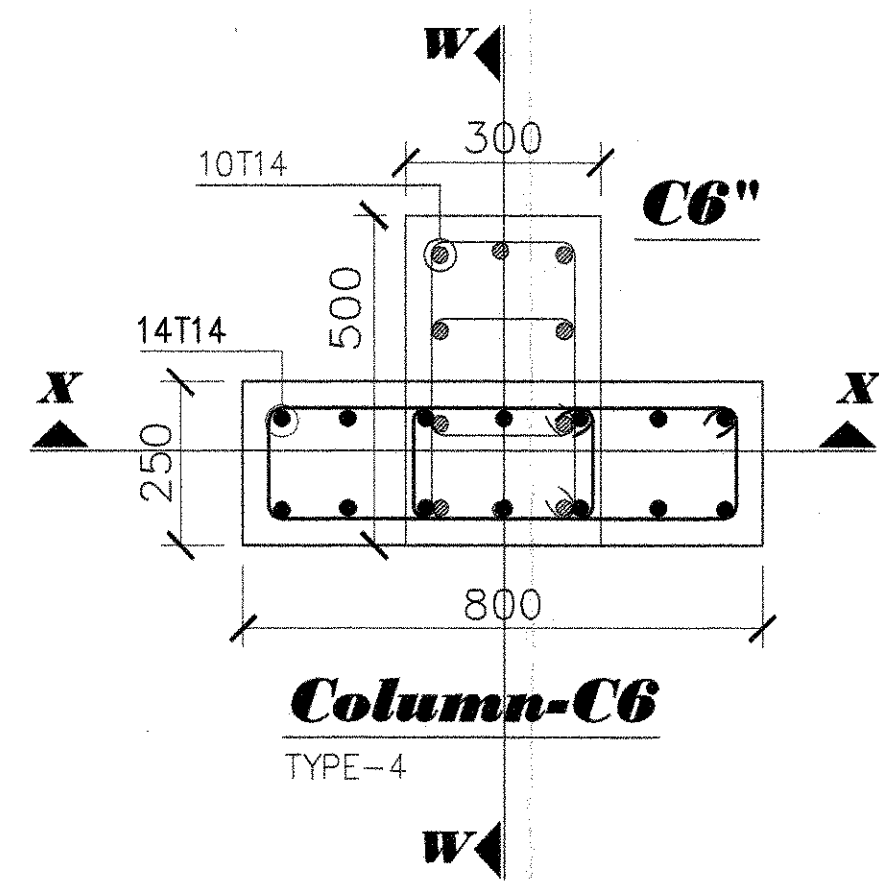
Package  
**PACKAGE - 2**

Drawing Title  
**COLUMN LAYOUT  
TYPE : LEGACY**

2 of 2

|                    |                      |                                |
|--------------------|----------------------|--------------------------------|
| Drawn<br>T.Murugan | Revise<br>Eng. Ziyad | Check<br>Eng. Ghassan Zahraoui |
| Scale<br>AS SHOWN  | Date<br>30-07-2011   | Approved                       |

Package Title  
**PME / JP / AB / LEGACY / STR-04**



**dar al-handasah**  
Sign and Partners

☒ CODE 1 APPROVED  
☐ CODE 2 APPROVED AS NOTED  
☐ CODE 3 RESUBMIT FOR APPROVAL  
☐ CODE 4 REJECTED

BY: *[Signature]* DATE: 4/8/11

Approval is given for the contractor of any of the above mentioned work to proceed subject to the incorporation of endorsed comments.

Contractor is requested to file the work with the relevant authorities for their consideration with other trades.