UNHCR PAKISTAN

GGMS KALKATAK DROSH CHITRAL CONSTRUCTION DRAWINGS

FEB., 2022

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
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| Clearance Code | 4198/321/M/17(22) | Doc No. | 4189-01 | Rev No. | 0 |
SCHEDULE OF DOOR & WINDOWS

D1=4'-0" x 3'-0"
W1=8'-0" x 6'-3"
W2=3'-0" x 6'-3"

GROUND FLOOR PLAN

EL.(Y'-0"

UNHCR PAKISTAN
CONSTRUCTION OF GOMS KALOALKAT DJIBSH
CENTRAL
ARCHITECTURAL LAYOUTS
GROUND & FIRST FLOOR PLAN
6. FOUNDATION AND EARTHWORK

1. The contractor shall comply with the available electrical code regulations, procedures, and instructions for completing the work.

2. All electrical designs and installations shall be based on the recommendations and guidelines in the electrical engineering report.

3. Tenant and owner treatment shall be carried out in accordance with all specifications.

4. The type and configuration of all electrical, plumbing, and other services shall be carried out in accordance with the approved drawings.

5. Any electrical, plumbing, or other systems that will be installed shall be carried out in accordance with the approved drawings.

6. The contractor shall be responsible for ensuring that all electrical systems are properly installed and tested for compliance with all regulations.

7. All structural concrete structures shall be designed in accordance with the relevant codes and standards. The contractor shall be responsible for ensuring that all structures are properly designed and constructed.

8. Backfilling and compaction shall be carried out in accordance with the approved drawings and specifications.

9. Earthwork and ground improvements shall be carried out in accordance with the approved drawings and specifications.

10. The contractor shall coordinate the installation of all electrical, plumbing, and other systems with the structural engineer and architect.

11. Any deviations from the approved drawings shall be discussed with the structural engineer and architect prior to implementation.

12. Dissimilar materials that are to be used in the construction of the structures shall be approved by the structural engineer and architect.

13. All materials and workmanship shall comply with the specifications of the contract in accordance with all applicable codes and standards.

14. All materials and workmanship shall be subject to approval by the structural engineer and architect.

15. The contractor shall maintain and submit shop drawings, material samples, and test results to the structural engineer and architect for approval.

16. The contractor shall be solely responsible for the accuracy of the drawings and specifications. The contractor's approval shall not release the contractor from responsibility.

### Class

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<td>E</td>
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CONSTRUCTION OF GGMS KALKATAK DROSH

SCALE = 1"=8'

FOOTING SCHEDULE

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<tr>
<th>FOOTING MARK</th>
<th>SHORT SIZE (A)</th>
<th>LONG SIZE (B)</th>
<th>THICKNESS (C)</th>
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NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN "" SYSTEM, EXCEPT NOTED OTHERWISE.
4. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS OF GEOTECHNICAL INVESTIGATION REPORT.
5. ALL ISOLATED FOOTING SHALL BE PLACED CONCENTRIC WITH THE COLUMNS UNLESS NOTED OTHERWISE.
FRAMING PLAN AT EL+0'-0"

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN TFS SYSTEM EXCEPT NOTED OTHERWISE.
4. ALL EXTERNAL PLINTH BEAMS ARE 10"x24" EXCEPT NOTED OTHERWISE.
5. ALL INTERNAL PLINTH BEAMS ARE 10"x18" EXCEPT NOTED OTHERWISE.

SECTION 1-1

SECTION 2-2
CONSTRUCTION OF GGMS KALKATA DROSH
CHITRAL

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN "PSF" SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL FLOOR BEAMS ARE 10'-2" EXCEPT NOTED OTHERWISE.
5. ALL SLABS ARE 6'-0" THICK, EXCEPT NOTED OTHERWISE.

SCALE = 1"=8'
CONSTRUCTION OF GGMS KALKATA DROSH

UNHCR PAKISTAN

CHITRA

STRUCTURAL LAYOUTS

SLAB REINFORCEMENT PLAN AT EL.+11'-6"

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN "PSF" SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL FLOOR BEAMS ARE 10"x24" EXCEPT NOTED OTHERWISE.
5. ALL SLABS ARE 6"-TH. EXCEPT NOTED OTHERWISE.
6. ALL BINDER BARS SHALL BE 83-12" c/c.

TYPICAL SLAB REINFORCEMENT PLAN
FRAMING PLAN AT EL +23'-0"
& BASE PLATE LAYOUT PLAN

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01001 & 01002.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FIS' SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL ROOF BEAMS ARE 10"X24" EXCEPT NOTED OTHERWISE.

SCALE = 1"=8'

CONSTRUCTION OF GGMS KALIKATK DROSH
STRUCTURAL LAYOUTS & BASE PLATE LAYOUT PLAN & DETAILS

UNHCR PAKISTAN
CHITRAL
PAKISTAN (PVT.) LTD. ISLAMABAD

DRAWING NO.
4199/323/C/01G07

2022
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**NOTES:**
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN "IP" SYSTEM, EXCEPT NOTED OTHERWISE.
4. FOR FINAL COLUMN ELEVATION, SEE RESPECTIVE FRAMING PLANS.
## Plinth Beam Schedule

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<tr>
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<th>Type</th>
<th>Longitudinal Reinforcement</th>
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### Notes
1. For general notes, refer drawing No. 4199/333/C/01061 & 01062.
2. This drawing is in conjunction with all the relevant project drawings.
3. Alldimensions are in "ft" unless otherwise noted.
4. For support conditions refer framing plan.
5. Prior to splicing shall be placed at 2' from the face of support.
6. Note 1 & 2 for lap locations.
7. See typical plan for different settings of beams.
8. See typical elevation-2 & 3 for different settings of beams.
9. See typical elevation-3 for lap location.
10. Bars #2 & #1 shall be provided in second layer unless otherwise noted.
11. The location of laps shown in Type PB & LB is indicated only if the bars are not continuous.
12. Bars of No. 4 & 6 shall be provided at location shown on the typical elevations using maximum available length.
13. For tie bars, an continuous end of two beams, the greater of the two shall be provided.
FLOOR & ROOF BEAM SCHEDULE

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<th>TYPE</th>
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<th>c2</th>
<th>h</th>
<th>f</th>
<th>d</th>
<th>r</th>
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SPECIAL NOTE: - 
THE LAY LOCATIONS SHOWN ARE ERECTION ONLY THEY MAY BE ELIMINATED ALONG WITH OR ADJUSTED WHILE PREPARING BAR SCHEDULING 
SCHEDULE WITH STRICT ADHERENCE TO THESE LAY LOCATIONS IN ALL SPANS.

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01/001 & 0002.
2. PLOT THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT 
PROJECT DRAWINGS.
3. ALL DIMENSIONS ARE IN """" UNLESS NOTED OTHERWISE.
4. FOR SUPPORT CONDITION REFER DRAWING PLAN.
5. PROLONG STIRRUP SHALL BE PLACED AT 2"""" FROM THE FACE OF SUPPORT.
6. """" = """" IN ALL LAY LOCATIONS.
7. SEE TYPICAL PLAN FOR DIFFERENT SETTING OF BEAMS.
8. SEE TYPICAL ELEVATION-1 FOR DIFFERENT SETTING OF BEAMS.
9. SEE TYPICAL ELEVATION-2 & 3 FOR DIFFERENT SETTING OF BEAMS.
10. LAY LOCATIONS SHALL BE PROVIDED IN SECOND LAYER UNLESS 
NOTED OTHERWISE.
11. THE LOCATION OF ERPS SHOWN IN TYPICAL REPS IS INDICATED ONLY 
WHEN LAY ARE ELIMINATED.
12. LAY LOCATIONS SHOWN ARE ELIMINATED AT LOCATION SHOWN ON THE 
TYPICAL ELEVATIONS USING MAXIMUM AVAILABLE LENGTH.
13. FOR TYPICAL AT COMMON CONTINUOUS END OF TWO BEAMS THE 
REMARKS OF THE TWO REPS SHALL BE PROVIDED.
TRUSS BOTTOM CHORD LAYOUT PLAN

MATERIAL SPECIFICATIONS OF STEEL WORKS

1. ALL FABRICATION, ERECTION AND QUALITY CONTROL IS TO BE DONE IN ACCORDANCE WITH THE LATEST ASTM SPECIFICATIONS.

2. STRUCTURAL STEEL SHALL BE ASTM A-36 STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-36 OR EQUIVALENT.

3. ALL WELDING SHALL BE FILLET WELDING CONFORMING TO THE REQUIREMENTS OF AMERICAN WELDING SOCIETY AWS SPECIFICATIONS. THE WELD STRENGTH SHALL BE OF GRADE E-70 HAVING YIELD STRENGTH AT LEAST 70,000 PSI.

4. ALL BOLTS SHALL BE MECHANICAL ANCHORS CONFORMING TO AEC STANDARD.

5. MINIMUM EDGE DISTANCE FROM THE CENTER OF BOLT = 2" UNLESS OTHERWISE SPECIFIED.

6. STANDARD HOLE DIA. = BOLT DIA. + 1/16"

7. ALL STEEL SHALL BE GIVEN ONE SHOP COAT OF RED LEAD OXIDE PRIMER AND FIELD TOUCHUP EXCEPT FOR SURFACES TO BE EMBEDDED IN CONCRETE OR CONTACT SURFACES OF FRICTION BOLTED CONNECTIONS.

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THE DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.
TOP CHORD/PURLIN/SAG ROD LAYOUT PLAN

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G12 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.

SECTION X-X

DETAIL "A"

(TOP. CONNECTION OF PURLINS WITH TOP CHORD)

DETAIL "B"

MEMBER MARK | MEMBER SIZE
-------------|---------------------
1            | 3"x3/8"x1/4"
2            | 3/8"x3/8"x1/4"
3            | 23/32"x23/32"x1/4"
PURLIN       | C5x6.7
SAG ROD      | 3/4" 2M BARS

UNHCR PAKISTAN
CONSTRUCTION OF GGMS KALKATAK DROSH
CHITRAL
STRUCTURAL LAYOUTS
TRUSS TOP CHORD/PURLIN/SAG ROD LAYOUT PLAN

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT.) LTD. ISLAMABAD
CONSTRUCTION OF GGMS KALKATA DROSH
CHITRAL
STRUCTURAL LAYOUTS
ELEVATION OF TRUSS T-2 & J-2

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN 'FPS' SYSTEM, EXCEPT NOTED OTHERWISE.

TYPICAL CONNECTION DETAIL OF CGI SHEET AND PURLINS AT CROWN LOCATION
CONSTRUCTION OF GGMS KALKATAK DROSH
STRUCTURAL LAYOUTS
FOUNDATION, COLUMN & PLINTH BEAM
LAYOUT PLAN AND DETAILS

FOOTING SCHEDULE

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<tr>
<th>FOOTING MARK</th>
<th>SHORT SIZE (A)</th>
<th>LONG SIZE (B)</th>
<th>THICKNESS (C)</th>
<th>REINFORCEMENT</th>
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NOTES:
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2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT
   PROJECT DRAWINGS.
3. ALL UNITS ARE IN "FT" SYSTEM, EXCEPT NOTED OTHERWISE.
4. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS OF GEO-TECHNICAL
   INVESTIGATION REPORT.
5. ALL ISOLATED FOOTING SHALL BE PLACED CONCRETE WITH THE COLUMNS
   UNLESS NOTED OTHERWISE.
6. ALL EXTERNAL PLINTH BEAMS ARE 10" x 24" EXCEPT NOTED OTHERWISE.
7. ALL INTERNAL PLINTH BEAMS ARE 10" x 24" EXCEPT NOTED OTHERWISE.
FRAMING PLAN AT EL. +9'-0" 
& BASE PLATE LAYOUT PLAN

DETAIL A - A

DETAIL B - B

TYP. SECTION OF ROOF BEAMS

NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01001 & 01002.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT PROJECT DRAWINGS.
3. ALL UNITS ARE IN "PS" SYSTEM, EXCEPT NOTED OTHERWISE.
4. ALL ROOF BEAMS ARE 10"X20" EXCEPT NOTED OTHERWISE.

CONSTRUCTION OF GGMS KALKATAK DROSH
CHITRAL
STRUCTURAL LAYOUTS
FRAMING PLAN AT EL.+23'-0"
& BASE PLATE LAYOUT PLAN & DETAILS

UNHCR PAKISTAN

SCALE = 1"=8'
CONSTRUCTION OF GGMS KALKATAK DROSH

UNHCR PAKISTAN
CHITRAL

SCALE = 1" = 8'

ELEVATION OF TRUSS T-1

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<td>PURLIN C</td>
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<tr>
<td>SAG ROD</td>
<td>3/4&quot; DIA BARS</td>
</tr>
</tbody>
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NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G1 & 01G2.
2. READ THIS DRAWING IN CONJUNCTION WITH ALL THE RELEVANT
   PROJECT DRAWINGS.
3. ALL UNITS ARE IN "PS" SYSTEM, EXCEPT NOTED OTHERWISE.

MATERIAL SPECIFICATIONS OF STEEL WORKS

1. ALL FABRICATION, ERECTION AND QUALITY CONTROL
   IS TO BE DONE IN ACCORDANCE WITH THE LATEST
   ASTM SPECIFICATIONS.

2. STRUCTURAL STEEL SHALL BE ASTM A–36 STEEL
   CONFORMING TO THE REQUIREMENTS OF ASTM
   A–36 OR EQUIVALENT.

3. ALL WELDING SHALL BE FILLET WELDING CONFORMING
   TO THE REQUIREMENTS OF AMERICAN WELDING
   SOCIETY AWS SPECIFICATIONS. THE WELD
   STRENGTH SHALL BE OF GRADE E–70 HAVING
   YIELD STRENGTH AT LEAST 70,000 PSI.

4. ALL BOLTS SHALL BE MECHANICAL ANCHORS
   CONFORMING TO AISC STANDARD.

5. MINIMUM EDGE DISTANCE FROM THE CENTER OF
   BOLT = 2" UNLESS OTHERWISE SPECIFIED.

6. STANDARD HOLE DIA. = BOLT DIA. + 1/16".

7. ALL STEEL SHALL BE GIVEN ONE SHOP COAT OF
   RED LEAD OXIDE PRIMER AND FIELD TOUCHUP
   EXCEPT FOR SURFACES TO BE EMBEDDED IN
   CONCRETE OR CONTACT SURFACES OF FRICTION
   BOLTED CONNECTIONS.
NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01G01 & 01G02.
2. READ THIS DRAWING IN CONJUNCTION WITH THE RELEVANT PLUMBING AND OTHER SERVICES DRAWINGS.
3. ALL STRUCTURAL CONCRETE SHALL BE CLASS "C" HAVING MINIMUM 28-DAYS CUBE STRENGTH OF 2,400.00 psi.
4. LEAN CONCRETE SHALL BE TYPE "E" TYPE HAVING MINIMUM 28-DAYS CUBE STRENGTH OF 1200 psi.
5. ALL REINFORCING BARS SHALL BE GRADE 40 DEFORMED STEEL HAVING MINIMUM YIELD STRENGTH OF 40,000 psi CONFORMING TO ASTM A615.
6. CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER:
   BOTTOM SLAB = 1/2" (ALL FACES)
   TOP SLAB = 3/4" (ALL FACES)
   WALLS = 1/2" (BOTH FACES)
7. BACKFILLING AGAINST THE WALLS SHALL NOT BE DONE UNTIL TOP SLAB IS CAST AND CURED.
8. ALL THE STRUCTURAL SURFACES AGAINST WHICH EARTH IS TO BE FILLED SHALL BE COATED WITH TWO (02) COATS OF HIT BITUMEN AS PER SPECIFICATIONS.
NOTES:
1. FOR GENERAL NOTES, REFER DRAWING NO. 4199/323/C/01061 & 01062.
2. READ THIS DRAWING IN CONJUNCTION WITH THE RELEVANT PLUMBING AND OTHER SERVICES DRAWINGS.
3. ALL STRUCTURAL CONCRETE SHALL BE Class 'C' HAVING MINIMUM 28- DAYS CUBE STRENGTH OF 2,400.00 psi.
4. ALL REINFORCING BARS SHALL BE GRADE-40 DEFORMED STEEL HAVING MINIMUM YIELD STRENGTH OF 40,000 psi, CONFORMING TO ASTM A615.
5. CLEAR COVER TO REINFORCEMENT SHALL BE AS UNDER:
   SLAB = 3/4" (ALL FACES)
   BEAMS = 1½"
DB-GF

16 SWG SHEET STEEL, POWDER PAINTED, RECESSED IN WALL

2 CORE 6 Sqmm PVC
+1 CORE 66qmm PVC ECC

0-500 VAC

V.S.S

32 AMPS
DP MCB
RC=10KA

in = 20 AMPS, Isc = 10KA

220VAC P & N & E COPPER BUS BARS 50 HZ, 10KA

3x2/2A

'R'

10 AMPS
SP MCB
RC=10KA

09x10A SP MCB

10 AMPS
SP MCB
RC=10KA

06x10A SP MCB