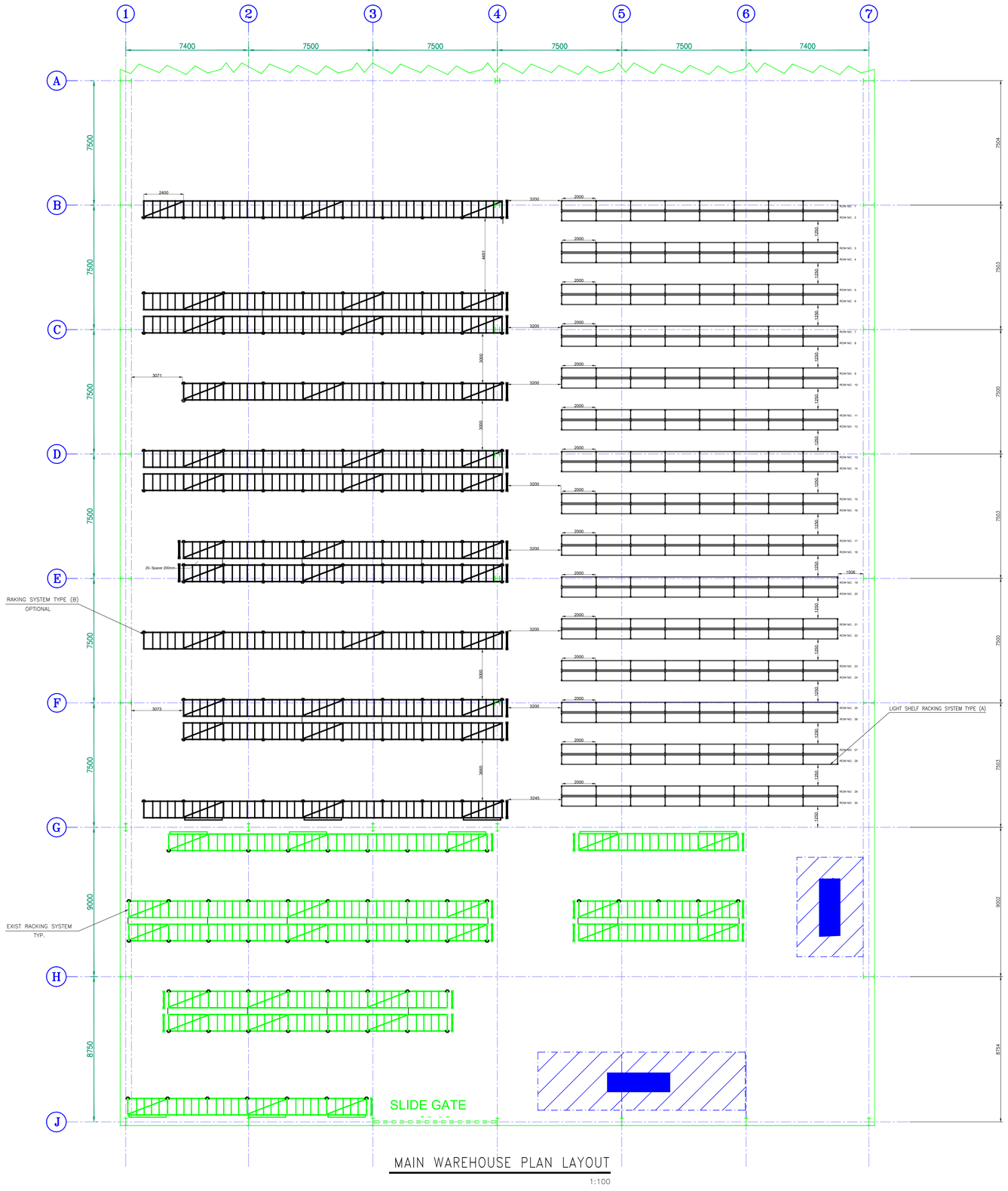


MAIN WAREHOUSE PLAN LAYOUT

1:100

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED (") IN INCHES.
2. ALL ELEVATIONS & COORDINATION'S POINTS ARE IN METERS.
3. DIMENSIONS SHALL DO NOT BE SCALED FROM DRAWING, ALL DIMENSIONS SHOULD BE READ OR COMPUTED.
4. IF THIS DRAWING IS ATTACHED TO TENDER DOCUMENTS , IT SHALL BE CONSIDERED AS A PART OF THE CONTRACT DOCUMENTS AND SHALL BE FULLY COMPLIED WITH SPECIFICATION, BOQS AND CONDITIONS OF CONTRACT.WHERE THERE EXISTS THE MORE STRINGENT REQUIREMENT.
5. THE DRAWINGS ACCOMPANYING TO TENDER PACKAGE ARE NOT CHECKED CONSTRUCTION ISSUE DRAWINGS AND MAY NOT NECESSARILY COMPLETE, THEY ARE PROVIDED TO SHOW THE SCOPE AND COMPLEXITY OF THE WORK , THE CONTRACTOR SHALL VERIFY, STUDY AND CHECK ALL THE DIMENSIONS , MATERIALS , WORK DETAILS , INSTALLATION AND ARRANGEMENT ACCORDING TO SITE AND INSTALLATIONS CONDITIONS , AND SHALL BE RESPONSIBLE FOR ALL NECESSARY ALLOWANCES FOR SUCH MATTERS AND FOR THE CORRECTNESS OF ALL DIMENSIONS AT THE SITE.
6. ALL NOTES ON THE DRAWINGS ISSUED BY THE EMPLOYER/ENGINEER ARE MANDATORY AND THE CONTRACTOR/BIDDER SHALL ABIDE FULLY BY THESE NOTES WITH NO EXCEPTIONS UNLESS GRANTED WRITTEN APPROVAL FROM THE EMPLOYER/ENGINEER. ANY NOTE MENTIONED ON DRAWING , IT SHALL BE CONSIDERED IN ALL REFERENCED DRAWINGS .
7. THE CONTRACTOR/EXECUTOR SHALL PERFORM A DETAILED SURVEY OF THE WORK LOCATIONS AND INSTALLATIONS, AND SHALL PROPOSE A WORKABLE SOLUTION FOR ANY WORK IF THE SITE SURVEY PROVES ANY OBSTACLES, CONFLICTS, INADEQUATE DETAILS AND/OR CANNOT BE INSTALLED AS PER TENDER DRAWINGS. IN THIS CASE, THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SOLUTION ALONG WITH NECESSARY DESIGN/SHOP DRAWINGS WHEREVER NEEDED WITH ALL REQUIRED DETAILS FOR CONSTRUCTION, AND INSTALLATION, THE EMPLOYER/ENGINEER SHALL APPROVE THE SUBMITTAL DRAWINGS. NO CONSTRUCTION SHALL BE STARTED ON SITE WITHOUT APPROVED SHOP DRAWINGS. ALL DELAYS PRODUCED BY THE CONTRACTOR REGARDLESS IF TENDER DRAWINGS WERE ISSUED BY THE EMPLOYER/ENGINEER SHALL BE NC.
8. ANY CHANGES IN DESIGN OR DIMENSIONS DURING CONSTRUCTION SHALL BE APPROVED BY THE APC ENGINEER BEFORE PROCEEDING .
9. AFTER FINISHING CONSTRUCTION WORK , THE CONSTRUCTION PARTY SHALL PROVIDE DESIGN ENGINEER WITH ALL CHANGES IN DESIGN AND DIMENSIONS DURING CONSTRUCTION IN ORDER TO RE-ISSUE AS BUILT REVISION DRAWING, IN CASE IF JOB IS EXECUTED BY CONTRACTOR, THEN HE IS RESPONSIBLE TO PROVIDE THE APC WITH AS BUILT DRAWINGS.
10. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF THE EMPLOYER (ARAB POTASH CO. (HEREIN CALLED APC), AND THE CONTAINS INFORMATION WHICH IS PROPRIETY TO APC , IT IS NOT TO BE COPIED OR USED IN ANY MANNER AND FOR ANY PURPOSE OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT HAS BEEN PROVIDED WITHOUT THE PRIOR WRITTEN APPROVAL BY APC.
11. ALL MEANS OF FIXATION MATERIAL ARE DEEMED TO BE INCLUDED IN SCOPE OF WORK EVEN IF ARE NOT INDICATED IN DRAWINGS , FIXATION MATERIAL INCLUDES: BOLTS, WASHERS, FASTENERS ,NUTS, GASKETS , CLAMPS, CLIPS,ANCHORS AND ALL NECESSARY TO COMPLETE ASSEMBLY .
12. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELATED CONTRACT DRAWINGS. REFER SPECIALTY TO MECHANICAL & ELECTRICAL DRAWINGS.

MATERIALS GENERAL NOTES:

1. UNLESS OTHERWISE NOTED , MATERIAL OF CONSTRUCTION SHALL BE NEW AND APPLICABLE TO THE FOLLOWING:
2. CARBON STEEL PLATES AND STEEL STRUCTURAL SECTIONS CONFORMING TO ASTM A36 OR ST37 TO DIN 17100 (OR APPROVED EQUAL) HAVING A MINIMUM YIELD STRESS OF 245 N/mm².
3. CARBON STEEL PIPING SHALL BE ASTM A-53 B , CONFORM TO ANSI B36.10 , PIPE SCH WILL BE AS SHOWN ON THE DRAWING . FOR 2" PIPES AND BELOW : PIPES SHALL BE SCH. 80 AS MIN. PIPES NOZZLE FLANGES SHALL BE ASTM A-105 CONFORM TO ANSI B16.5 , FLANGE CLASS 150 POUND UNLESS OTHERWISE MENTIONED . THE WELDED PIPE FITTING SHALL CONFORM ASTM A-234 , THREADED FITTINGS SHALL BE GALVANIZED STEEL CLASS 400 AS MIN FOR PIPES SIZES 2" AND BELOW , ALL CONFORM TO ANSI B16.11 STANDARD .
4. CONNECTION BOLTS : UNLESS NOTED OTHERWISE ON DRAWINGS BOLTS AND NUTS SHALL BE HEAVY HEXAGON HEAD SERIES : GALVANIZED STEEL, FRICTION TYPE, HIGH STRENGTH ASTM A325/A325M BOLTS , OR GRADE 8.8 GALVANIZED STEEL DIN 8131 AT LEAST .
   WHERE SPECIFIED FOR USING HIGHER GRADES , BOLTS SHALL BE TO ASTM A490/A490M, TYPE 1 OR DIN 6914 GRADE 10.9 HEAVY HEX STEEL STRUCTURAL BOLTS .
5. EQUAL OR "SUPERIOR" MATERIAL MAY BE APPROVED BASED ON THE ENGINEER'S REVIEW. ANY DELAY/COST IMPLICATION DUE TO SUCH SUBSTITUTION IS TO BE BORNE BY THE CONTRACTOR.
6. GRP PIPES SPECIFICATION :
   GLASSFIBRE REINFORCED POLYESTER PIPE DN1200 MM , PN 10 BAR, SN STIFFNESS 5000 N/M² , THE FITTINGS WILL BE COMPLETELY MADE OF THE MATERIALS USING RESIN TYPE "EPOXY VANIL ESTER OR EQUIVALENT FOR CHEMICAL RESISTANT , SUITABLE FOR WATER OF THE DEAD SEA AREA , MIN LENGTH OF PIPE 6M OR LENGTH , PIPE SECTIONS SHALL BE LAMINATED TOGETHER UTILIZING AN EXTERNAL LONG INTERNALS LAY-UP "BUTT-STRAP" CONSISTING OF LAYERS OF FIBERGLASS MATS AND FABRICS IMPREGNATED WITH POLYESTER RESIN. THE STRENGTH OF THE LAY-UP EXCEEDS THE PIPE WALL STRENGTH FOR LEAK-FREE SERVICE PERFORMANCE

CONCRETE & CIVIL WORKS NOTES:

1. STRUCTURAL AND CIVIL WORK DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ALL RELATED CONTRACT DRAWINGS. REFER SPECIALTY TO MECHANICAL & ELECTRICAL DRAWINGS.
2. PRIOR EARTH AND EXCAVATION WORKS, THE CONTRACTOR SHALL SURVEY ALL EXISTING UNDERGROUND UTILITIES (DRAINAGE, ELECTRICAL CABLES, PIPES..), REPORT THE SAME TO THE APC/ENGINEER AND PROPOSE NEW LOCATING VIA SHOP AND FABRICATION DRAWINGS SUBMITTED TO THE APC ENGINEER'S REVIEW AND APPROVAL.
3. BEFORE PLACING CONCRETE THE SOIL UNDER THE THE FOUNDATION SHALL BE RE-COMPACTED TO A DRY DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST (ASTM D 1557).
4. CONCRETE MIX SHALL BE DESIGNED BY CONTRACTOR AND APPROVED BY APC ENGINEER & CONCRETE MIX SHOULD BE DESIGNED TO ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 37.5 MPA AT 28 DAYS WITH MAXIMUM WATER CEMENT RATIO SHALL BE 0.45 , MAX SIZE OF GRAVEL 25 20MM. POTABLE WATER SHALL BE USED FOR MIXING AND CURING AND MANUAL MIXING IS ALLOWED, ONLY READY MIX IS ACCEPTED .MIXED CONCRETE SUPPLIER SHALL BE APPROVED PRIOR TO DELIVERING.
5. ALL CONCRETE SURFACES SHALL BE FAIR FACE FINISH .
6. ALL REINFORCED CONCRETE ELEMENT SHOULD HAVE A MINIMUM CRUSHING STRENGTH ON CUBE AT 28 DAYS: FCU=450Kg/cm² MIN.
7. CONCRETE SHALL BE CURED FOR 7 DAYS WITH POTABLE WATER.
8. STEEL REBARS SHALL BE NEW AS PER THE DIMENSIONS AND SIZE MENTIONED ON THE ATTACHED DRAWING AND SHALL BE OF HIGH TENSILE STEEL, HAVING A MINIMUM YIELD STRESS Fy=4200Kg/cm².
9. WHEN REINFORCEMENT SHOWN ON PLAN: FULL LINES DENOTE BOTTOM REINFORCEMENT & DASHED LINES DENOTE TOP REINFORCEMENT.
10. THE CONTRACTOR SHALL PREPARE PLACEMENT DRAWINGS AND BAR BENDING SCHEDULES.
11. STEEL REINFORCEMENT SHOULD BE EMBEDDED NOT LESS THAN 70 MM FROM THE SURFACE AND NOT LESS THAN 100 MM AT CORNERS.
12. ALL STRUCTURAL ELEMENTS IN CONTACT WITH SOIL SHALL BE PROTECTED BY SBS-MODIFIED BITUMINOUS SHEET WATERPROOFING.
13. ALL PRE-SET ANCHOR STUD BOLTS TO ASTM F1554, GRADE 105 WELDABLE OR GR 10.9 MIN AS PER SPECIFIED DIMENSIONS.
14. ONLY WHERVEVER SPECIFIED ON THE RELATED DRAWINGS FOR USING POST-INSTALLED ANCHORS , ANCHORS TO BE OR 8.8 MIN AS PER SPECIFIED DIMENSIONS, AND TO BE FIXED INTO CONCRETE FOUNDATION USING EPOXY RESIN BASED GROUT (SIKADUR 42 OR EQUIVALENT)FOR EMBEDDED LENGTH OF 100MM MIN .
15. GROUTING
   GROUTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION. ALL COLUMNS BASE , BASE PLATES , LEVELING PLATES AND BEARING PLATES SHALL BE PROMPTLY GROUTED WITH GROUTING THICKNESS OF 40MM UNLESS OTHERWISE NOTED, THAT AFTER THEY ARE SET AND CHECKED FOR LINE AND GRADE AS TEMPORARILY SUPPORTED ON LEVELING NUTS AND WASHERS, SHIMS OR OTHER SIMILAR LEVELING DEVICES, SHALL BE PROMPTLY GROUTED AFTER THE STRUCTURAL STEEL FRAME OR PORTION THEREOF HAS BEEN PLUMBED.
   NON-SHRINK GROUTS SHALL HAVE HIGH COMPRESSIVE STRENGTH OF 90 MPA MIN. 28 DAYS , FOR CRITICAL INSTALLATIONS, REQUIRE GROUT MANUFACTURER TO PROVIDE FIELD ASSISTANCE TO CONTRACTOR.
   SHRINKAGE-RESISTANT GROUT: ASTM C 1107, FACTORY-PACKAGED, AGGREGATE GROUT, NON-CORROSIVE AND NON-STAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION WITHIN 30 MINUTES.
16. ABBREVIATIONS: ALL REINFORCED CONCRETE (c) HIGH TENSILE STEEL (CTS) CENTER TO CENTER, (t) TOP (B) BOTTOM (EL) HIGHEST POINT OF FINISHED SURFACE, (CRS) CORROSION RESISTANCE STEEL, (TOS) TOP OF STEEL, (TOC) ELEVATION, (TOG) TOP OF GROUT/GROUND, (CS) CARBON STEEL, (SS) STAINLESS STEEL, (℄) CENTERLINE, N.T.S. NOT TO SCALE, W.P.(I)E. WORKING POINT ELEVATION, U.N.O.: UNLESS NOTED OTHERWISE ,

CAD 2010 DWG-NO MANUAL CHANGES PERMITTED

- REVISIONS SERIES ORDER FOR COMMENTING ISSUANCE- A, B, C, D...
- REVISIONS SERIES ORDER FOR FINAL ISSUANCE (CONSTRUCTION/BIDS): 0, 1, 2...

REV.	DATE	DESCRIPTION
3	03.08.2026	ISSUED FOR BIDS
2	30.07.2026	ISSUED FOR COMMENTS
A	12.07.2026	ISSUED FOR COMMENTS

DRAWN	STRUCTURAL DESIGNED	CAD SUPERVISOR	REVIEWED	APPROVED
AHMAD.T	AHMAD.T	SULEMAN.R	HADI.Y	BASSAM.M

البوتاس العربية Arab Potash

HASHEMITE KINGDOM OF JORDAN
ARAB POTASH COMPANY
PROJECTS DIRECTORATE
ENGINEERING & DEVELOPMENT DEP.

MAIN WAREHOUSE:

NEW RACKING SYSTEMS AT THE MAIN WAREHOUSE (GENERAL ARRANGEMENT)

SCALE	PROJECT NO	ASS./TAG NO	DRAWING NO	REV
AS SHOWN	PRO.0000	-	9317-A0	3