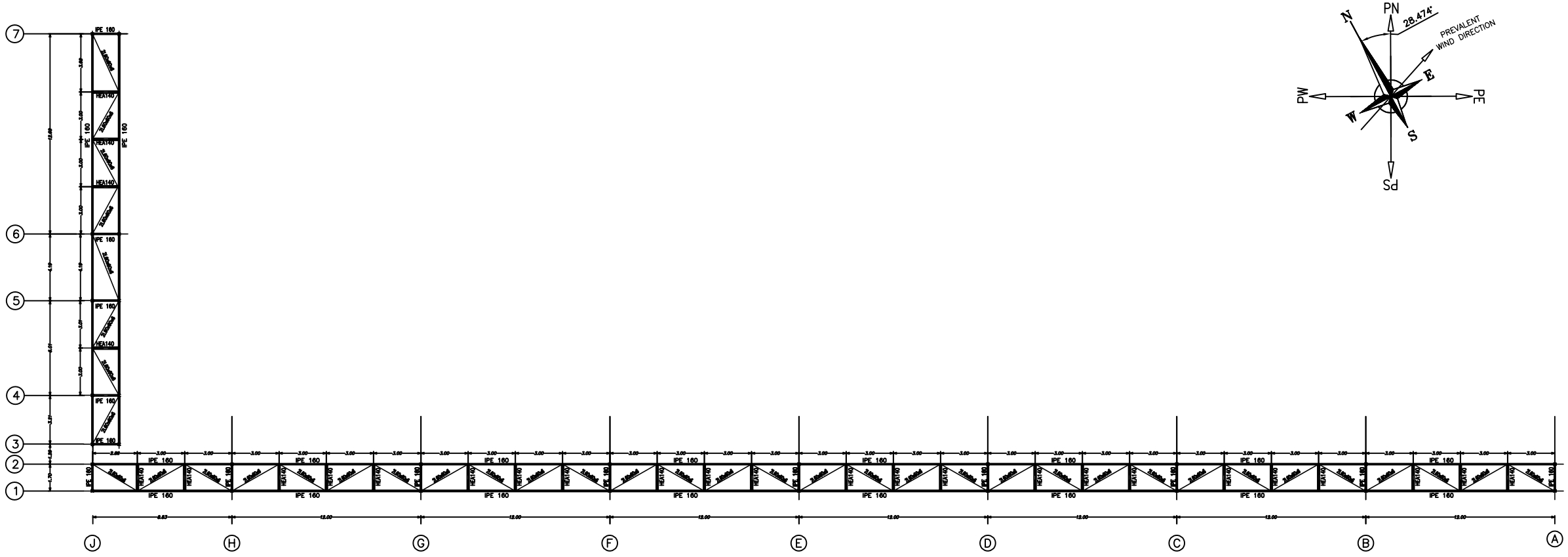
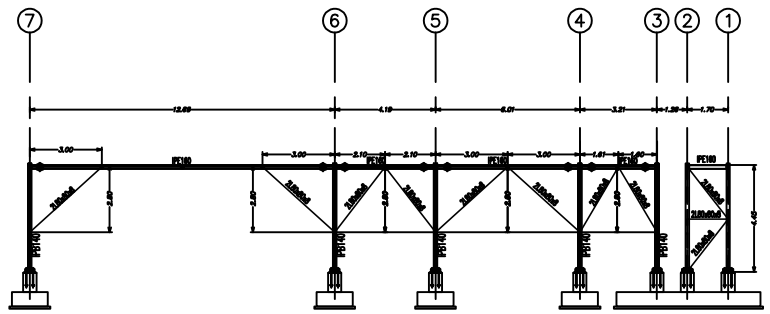
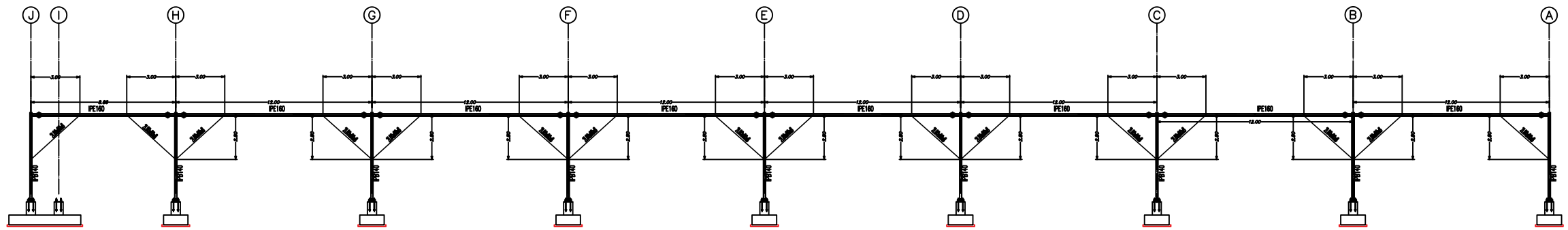






REFERENCES

DOC/DRAWING NO.

KEY PLAN

GENERAL NOTE

NOTE:

1. *Detailed and accurate drawings must be prepared by the contractor after dimensioning and surveying. Existing drawings are preliminary and require changes.*

Unless another things is indicated:

THE DIAMETER OF HOLES MUST BE 2mm GREATER THAN SCREW NOMINAL SIZE.
THE ALLOWABLE TOLERANCE FOR HOLES LOCATION IS ±2mm
THE STRUCTURE TRIAL ASSEMBLY IS NECESSARY IN SHOP

Material:

PLATES AND PROFILES S-235JR,St37, ACCORDING TO DIN-EN 10025
ROUND BAR ACCORDING TO DIN 1013 L-SHAPES ACCORDING TO DIN 1028
IPE ACCORDING TO DIN 1025 P5 & IPB ACCORDING TO DIN 1025 P2
U-SHAPES ACCORDING TO DIN 1026
ALL SCREW,NUTS AND WASHERS ARE HOT GALVANIZED.

Welding:

UNLESS ANOTHER THINGS IS INDICATED:
0.75 △ OF MINIMUM THICKNESS TO JOIN
0.7 ⚠ OF MINIMUM THICKNESS TO JOIN
MINIMUM QUANTITIES OF IRANIAN NATIONAL BUILDING CODE (SUB CLAUSE 10)
SHOULD BE REGARDED IF ABOVE QUANTITIES ARE LESS THAN MINIMUM ALLOWABLE.
WELDING SYMBOLS ARE ACC TO AWS A2.4

TOLERANCES:

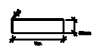
FOR MACHINING ACCORDING TO DIN EN2768-1 CLASS c & K
FOR WELDED CONSTRUCTIONS ACCORDING TO DIN EN13920 CLASS C & G

BOLT, NUT AND WASHER:

SC-Y AND FT-Y CONNECTION BOLTS, NUTS AND WASHERS MATERIAL SHOULD
BE GRADE 10.9 ACCORDING TO DIN 6914, 6915 & 6916
ST-N CONNECTION BOLTS, NUTS AND WASHERS MATERIAL SHOULD
BE GRADE 8.8 ACCORDING TO DIN 943, 934 AND 125-1

NOTE:

ALL BRACING CONNECTIONS, COLUMN SPLICES AND BEAM SPLICES CONNECTIONS SHOULD MEET REQUIREMENT OF SUP--CRITICAL CONNECTIONS (SC--X) AND SHOULD BE PRETENSIONED ACCORDING TO THE TABLE.
FAYING SURFACES FOR CONNECTIONS THAT MENTIONED ABOVE SHALL SATISFY THE REQUIREMENT OF CLASS B SURFACES FOR SUP--CRITICAL CONNECTIONS ACCORDING TO SECTION 10-2-9-3-5 OF IRANIAN NATIONAL BUILDING CODE (SUB CLAUSE 10).
NOTE: IF THE FREE EDGE OF GUSSET PLATE IS MORE THAN 25t (t=THICKNESS OF GUSSET PLATE)BELOW PLATE SHALL BE USED:



ABRIVIATION:

T.O.B.= TOP OF BEAM	OG.= CRANE GIRDER	H.P.P.=HIGH POINT PAVING
T.O.PED.= TOP OF PEDESTAL	T.O.BPL.= TOP OF BASE PLATE	B.P.=BASE PLATE
L= LENGTH	T.O.R.= TOP OF RAFTER	W.P.=WORK POINT
THK.= THICKNESS	N.G.= NATURAL GROUND	F.F.=FINISH FLOOR
PL.= PLATE	TYP.= TYPICAL	S.C.=SIMPLE CONNECTION
V.B.= VERTICAL BRACING	C.O.B.=CENTER OF BEAM	M.C.=MOMENT CONNECTION
PG.= PLATE GIRDER	B.O.BPL.=BOTTOM OF BASE PLATE	

TABLE FOR PRETENSION LOAD & TORQUE OF BOLTS GRADE(10.9)

BOLT	PRETENSION LOAD(KN)	TORQUE (KN.m)
M16	114	0.35
M20	179	0.60
M22	221	0.80
M24	257	1.10
M27	334	1.45
M30	408	2.20
M36	595	3.80

Customer Doc No.:

Project: TOOBA-OXYGEN AND NITROGEN

Plant: TGMM

Area: TGMM

Equipment: PIPERACK

Subgroup: N.A

Drawing Name: PIPERACK DRAWING

Sub Supplier
Sub Supplier Doc. No.

	Date	Name
Made by	4/04/2024	M.GH
Checked by	4/04/2024	M.GH
Approved by	5/04/2024	A. ZEYDABADI
Material		
Mass (kg)		
Security Level		
Status		
Document Type		
Scale		Size
Sheet	1/2	

Dwg. No.: GISD-LMPS-TON-PR-001 — Revision: 01

Client: شرکت توسعه آهن و فولاد گل گهر G.I.S.D.Co.

Contractor:

Consultants:

DWG Doc. No.:

Contractor Doc No.:

Rev.:

Page:

Document Title:

Date: