NO.	REVISION	BY	CH	SUP	APPROVED	DATE
1	REVISED PER ECN-5013 STAIRS RELOCATED MACHINE CENTER RELOCATED. DELETED LP-192. REF DWGS & NOTES ADDED.	RVK	AL	JS	AL	8/2/05
2	REVISED PER ECN-5027 REV'D PD NO'S FOR WIREWAY PWW505	JS	JN	JS	AL	10/17/05

PLAN NORTH
TRUE NORTH

2 | 2.3 | 2.7 | 3

MACHINE CENTER

25' | 25' | 25'

K | L | M | N

NCSX TEST CELL
FLOOR ELEVATION 98'-0"

EMBEDDED COPPER PLATE CUT LINES

LP-189 CKT-1 20A

LP-189 CKT-1 20A

UP

MEZZANINE COLUMNS

SHIELD WALL (LOWER BLOCK COURSES)

PENETRATION (TYP)

LP-189 CKT-1 20A

LP-189 CKT-1 20A

30004M-2 1/2" AL (UP TO JB B-AC-1015)

LP-185 (CATEGORY 2)

30004X-2 1/2" AL

WIREWAY PWW509 (PD-408, PD-409, PD-410) SEE VIEW A-A (G13)

30004V-2 1/2" AL (UP TO WIREWAY PWW510)

30004H-1 1/2" AL (UP TO JB B-AC-1012)

LP-189 (CATEGORY 1)

LP-189, CKT 1 20A

LP-189, CKT-2 30A

LP-189, CKT-24, 20A (MTD BELOW PANEL)

12' | 4' | 9'

MACHINE CENTER

VACUUM SUPPORT DUCT

UP

LP-189 CKT-3 20A

NITROGEN EVACUATION SYSTEM

LP-195 CKT-3 20A

LP-195 CKT-2 30A

LP-195 CKT-3 20A

30004T-2 1/2" AL (UP TO WIREWAY PWW504)

WIREWAY PWW503 (PD-390, PD-391, PD-392)

30003R-2 1/2" AL

LP-195 CKT-4 20A

LP-195 CKT-4 20A

LP-195 CKT-4 20A

A | 2' | A (G13)

LP-195 CKT-3 20A

35'

NB SUPPORT

VACUUM PUMP DUCT

NB SUPPORT

NB SUPPORTS

LP-195, CKT-24, 20A (MTD BELOW PANEL)

LP-195 CKT-3 20A

30004A-2 1/2" AL (UP TO JB B-AC-1008)

LP-181 (CATEGORY 3)

30004U-2 1/2" AL (UP TO WIREWAY PWW508)

7' | 30' | 10'

WIREWAY PWW507 (PD-402, PD-403, PD-404) SEE VIEW A-A (H13)

30003U-2 1/2" AL

UP

LP-195 CKT-1 20A

FUTURE BLOCK WALL

35'

LP-195 CKT-1 20A

LP-195 CKT-1 20A

2'

LP-182 (CATEGORY 3)

30004F-2 1/2" AL (UP TO JB B-AC-1011)

7' | 3' | 3'-7"

LP-186 (CATEGORY 2)

30004Q-2 1/2" AL

WIREWAY PWW505 (PD-396,PD-397,PD-398) SEE VIEW A-A (G13)

30003N-2 1/2" AL

30004S-2 1/2" AL (UP TO WIRWAY PWW506)

LP-195 (CATEGORY 1)

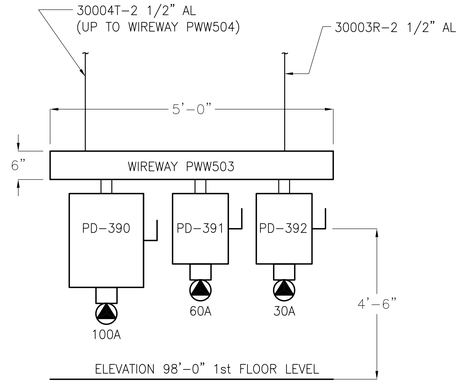
30004P-1 1/2" AL

PLT-333 | LCB-28 | LD-93 | LD-94 | LD-95 | LD-96 | LDP-142 | PLT-141 | PP-141 | PLT-142 | LDP-143

MG BLDG

B | B (DWG S410E003)

GENERAL ARRGT PLAN VIEW
TEST CELL FIRST FLOOR LEVEL 98'-0"
SCALE -1/4"=1'-0"



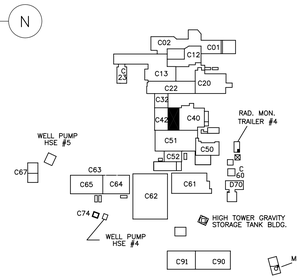
VIEW A-A (D8)
N.T.S.
TYPICAL FOR WIREWAYS PWW503, PWW505, PWW507 & PWW509

REFERENCE DRAWINGS:

6864-D-263-0L	AC POWER SYSTEMS, 480V POWER PANEL PP-141 ONE LINE DIAGRAM
6864-D-264-0L	AC POWER SYSTEMS, 208/120V POWER PANEL LDP-142 ONE LINE DIAGRAM
6864-D-265-0L	AC POWER SYSTEMS, 208/120V POWER PANEL LDP-143 ONE LINE DIAGRAM
6864-B-768-PL	LP-181 CATEGORY 3
6864-B-769-PL	LP-182 CATEGORY 3
6864-B-772-PL	LP-185 CATEGORY 2
6864-B-773-PL	LP-186 CATEGORY 2
6864-B-776-PL	LP-189 CATEGORY 1
6864-B-779-PL	LP-195 CATEGORY 1
SE710-002	SHIELD WALL, WALL BASE STEEL CHANNEL
SE710-014	SHIELD WALL, WALL FOOTING CHANNELS 32" WIDTH
SE710-013	SHIELD WALL, WALL FOOTING CHANNELS 40" WIDTH
SE710-011	SHIELD WALL, WALL BASE BLOCK
SE710-002	SHIELD WALL, LOWER BLOCK COURSES
SE410-002	AC PWR SYS, TC ARRANGEMENT, AC PWR DISTRIBUTION PLATFORM PLAN ELEVATION AT 110'.

NOTES:

1. ALL 480V, 3ø, RECEPTACLES MUST BE CROUSE-HINDS.
2. ALL RECEPTACLE BOXES SHALL BE CENTERED (18") ABOVE FINISHED FLOOR.
3. ELECTRICAL PANELS LP-181, LP-182, LP185, LP-186, LP-189 AND LP-195 SHALL BE CENTERED APPROXIMATELY 60" ABOVE FINISHED FLOOR.
4. CATEGORY 1 DENOTES GENERAL PURPOSE AC POWER AT BUILDING STEEL GROUND.
5. CATEGORY 2 DENOTES GENERAL PURPOSE AC POWER DIAGNOSTIC/INSTRUMENTATION (NOISE ISOLATION REQUIRED) AT SINGLE POINT GROUND.
6. CATEGORY 3 DENOTES DEDICATED AC POWER NEUTRAL BEAM SYSTEMS AT BLDG STEEL GND.
7. ALL CATEGORY 2 PANELS (LP-185, LP-186) AND ASSOCIATED CONDUIT SHALL BE ISOLATED FROM BUILDING STEEL.



WELDING ENGINEER
APPV'D: _____ DATE _____

03	02	01	PART NO.	NOMENCLATURE OR DESCRIPTION	DRAWING NO.	MATERIAL

COMPUTER GENERATED DRAWING
MANUAL CHANGES NOT PERMITTED

CENTRAL FILES:

UNLESS OTHERWISE SPECIFIED

AutoCAD2000

DIMENSIONS ARE IN INCHES
MACHINE SURFACES 125

DO NOT VERIFY INFORMATION BY SCALING DRAWING

BREAK SHARP EDGES .005/.020

PRINCETON PLASMA PHYSICS LABORATORY
PRINCETON UNIVERSITY
NATIONAL COMPACT STELLERATOR EXPERIMENT
AC POWER SYSTEMS
TEST CELL ARRANGEMENT
AC POWER DISTRIBUTION
1st FLOOR PLAN ELEVATION AT 98'-0"

SCALE: 1:48

TOLERANCES NON-CUMULATIVE

DIV: ELECTRICAL

DATE: 4/19/04

CADD FILE: S410E001R2.DWG

NEXT ASSEMBLY

DECIMAL-INCH		FRACTIONS	
X	± .100	0"-12"	±1/16
XX	± .030	12"-72"	±1/8
.XXX	± .005	72"-120"	±1/4
ANGULAR	±0°-15'	OVER 120"	±1/2

ENG: R. RAMAKRISHNAN

APPROVED
T. LANGELLA

DWN: J. NELSON

CHK: F. JONES

CHK F.J. | SUPV J.S.

S410E001

SHEET 1 OF 1 | REV 2

MechEalze1
1:48

S410E001