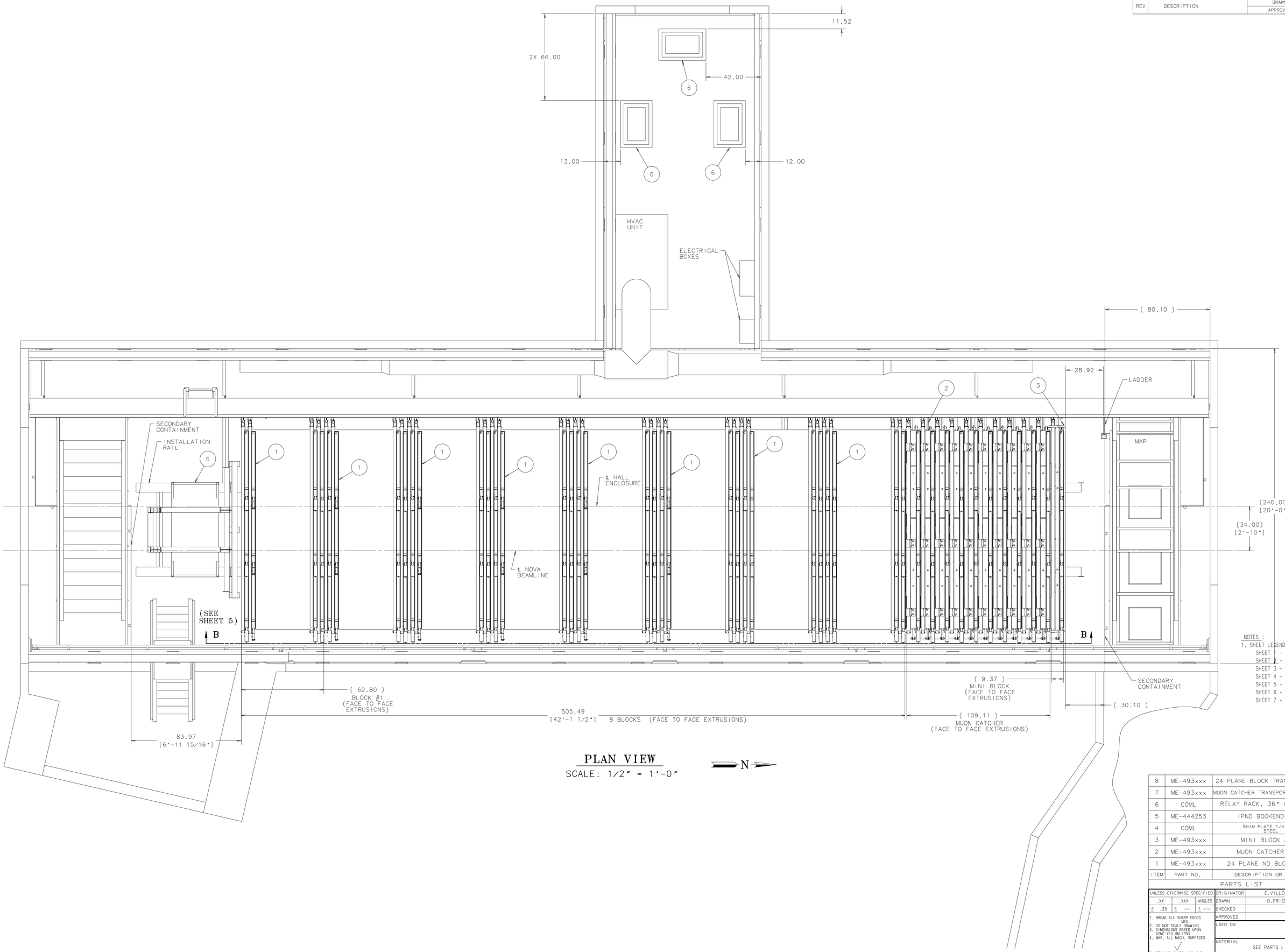
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



PLAN VIEW

SCALE: 1/2" = 1'-0"

N

NOTES :
1. SHEET LEGEND:
SHEET 1 - PLAN VIEW
SHEET 2 - EAST ELEVATION
SHEET 3 - SOUTH ELEVATION
SHEET 4 - SECTION A-A
SHEET 5 - SECTION B-B
SHEET 6 - ISOMETRIC VIEW
SHEET 7 - BLOCK & MUON CATCHER TRANSPORT

ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.
8	ME-493xxx	24 PLANE BLOCK TRANSPORT ASSY	1
7	ME-493xxx	MUON CATCHER TRANSPORT FRAME ASSY	1
6	COML	RELAY RACK, 36" X 24" X 87"	3
5	ME-444253	IPND BOOKEND ASSY	1
4	COML	SHIM PLATE 1/4" THK STEEL	AS REQD
3	ME-493xxx	MINI BLOCK ASSY	1
2	ME-493xxx	MUON CATCHER ASSY	1
1	ME-493xxx	24 PLANE ND BLOCK ASSY	8

PARTS LIST

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
			APPROVED		

1. BREAK ALL SHARP EDGES MAX.
2. DO NOT SCALE DRAWING.
3. DIMENSIONS BASED UPON ASME Y14.5M-1994
4. MAX. ALL MACH. SURFACES
5. DRAWING UNITS: U.S. INCH

USED ON

MATERIAL: SEE PARTS LIST ABOVE

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

PRELIMINARY 22-JAN-2013

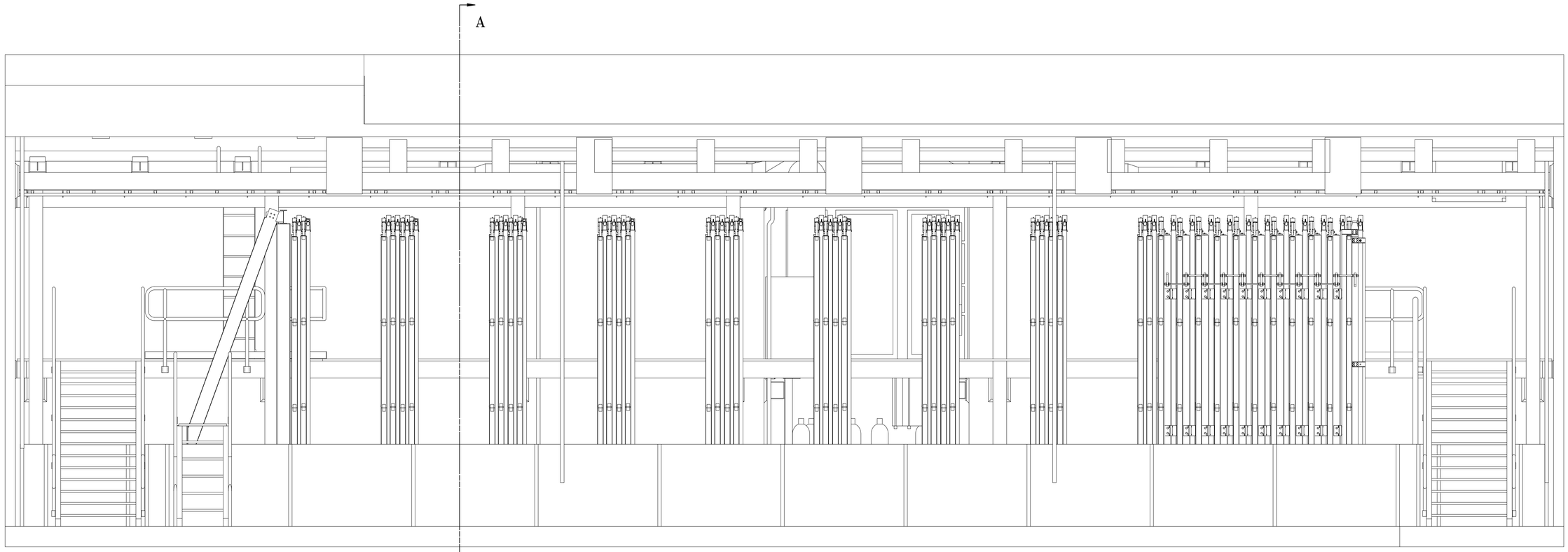
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	1 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:37:56 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



(SEE SHEET 4)

EAST ELEVATION

SCALE: 1/2"=1'-0"

PRELIMINARY
22-JAN-2013

UNLESS OTHERWISE SPECIFIED		ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S. INCH					

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

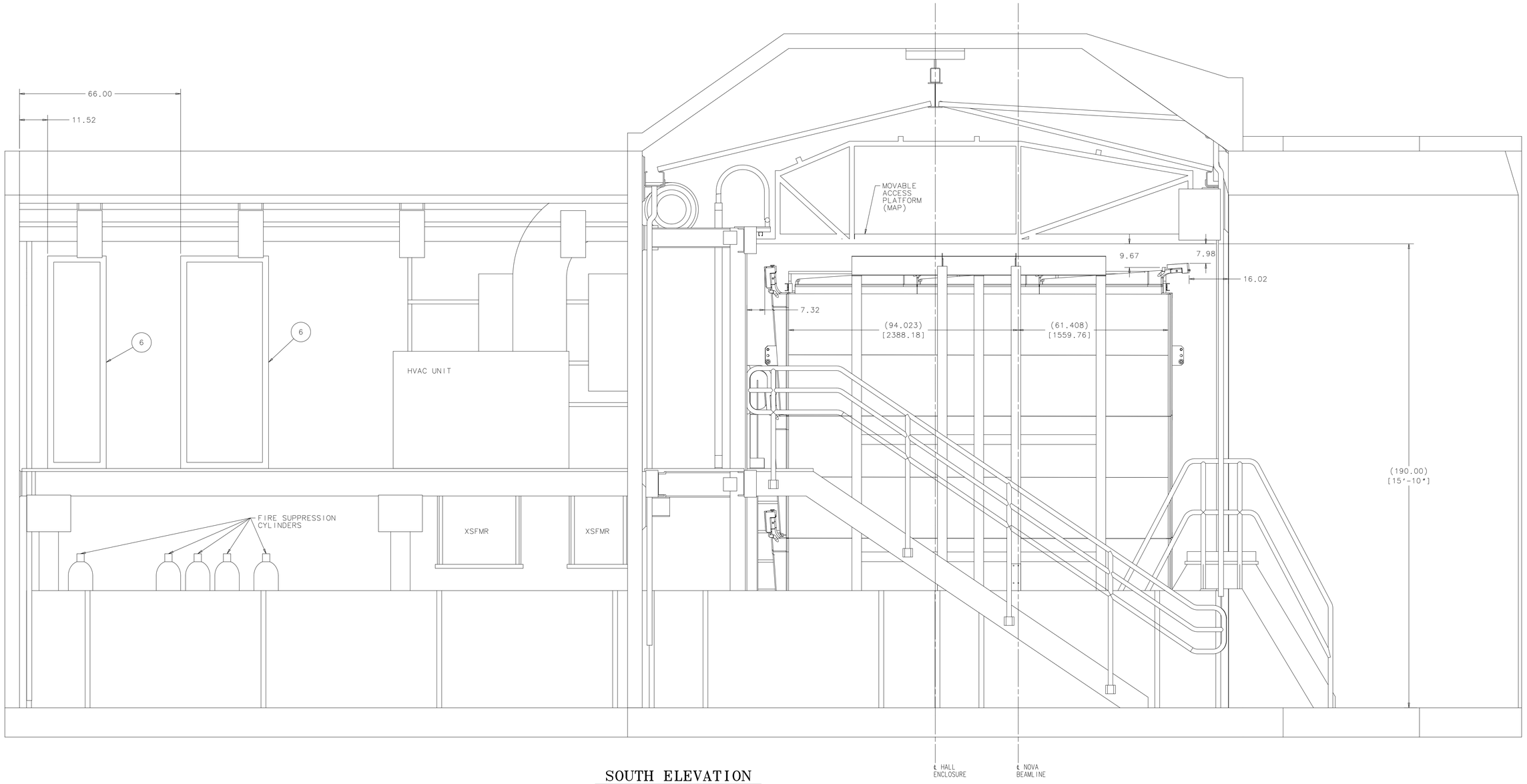
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	2 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:38:09 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



SOUTH ELEVATION

SCALE: 3/4"=1'-0"

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX			APPROVED		
2. DO NOT SCALE DRAWING. 3. DIMENSIONS BASED UPON ASME Y14.5M-1994 4. MAX. ALL MACH. SURFACES			USED ON		
5. DRAWING UNITS: U.S. INCH			MATERIAL	SEE PARTS LIST ABOVE	

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

PRELIMINARY
22-JAN-2013

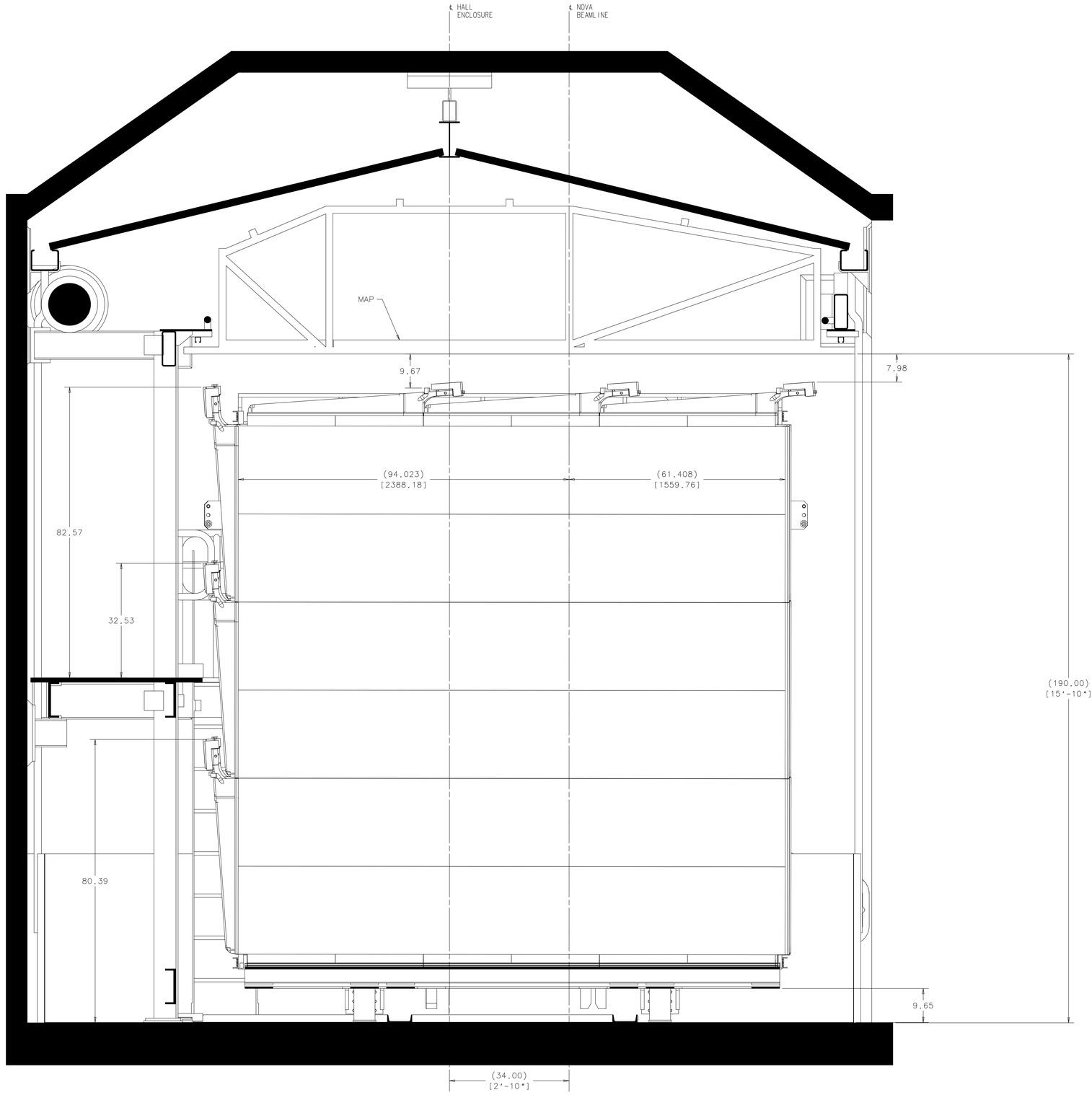
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	3 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:38:19 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



SECTION A-A

SCALE: 1"=1'-0"

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S.INCH					

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

PRELIMINARY
22-JAN-2013

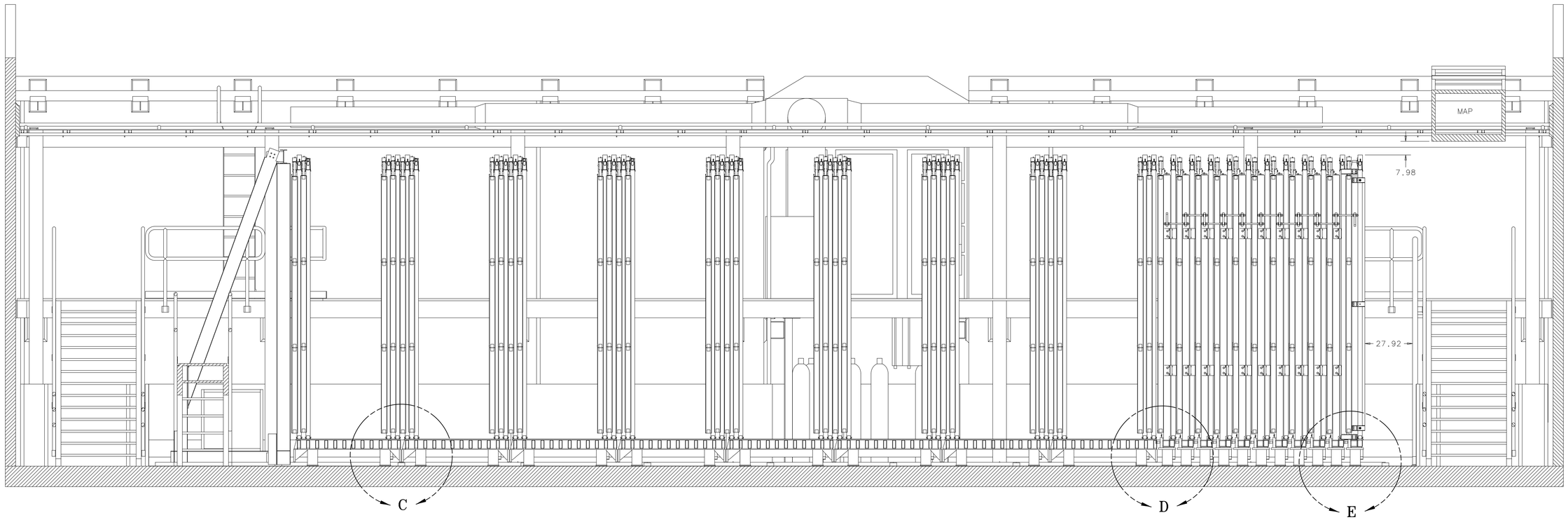
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	4 OF 7	

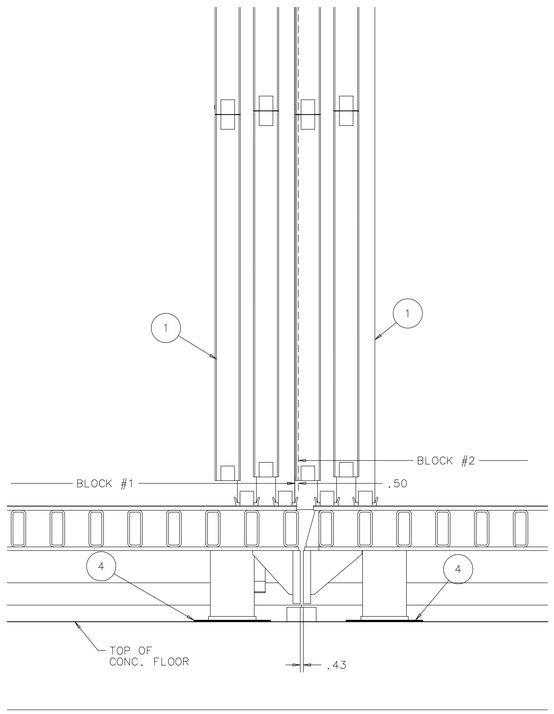
CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:38:27 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL

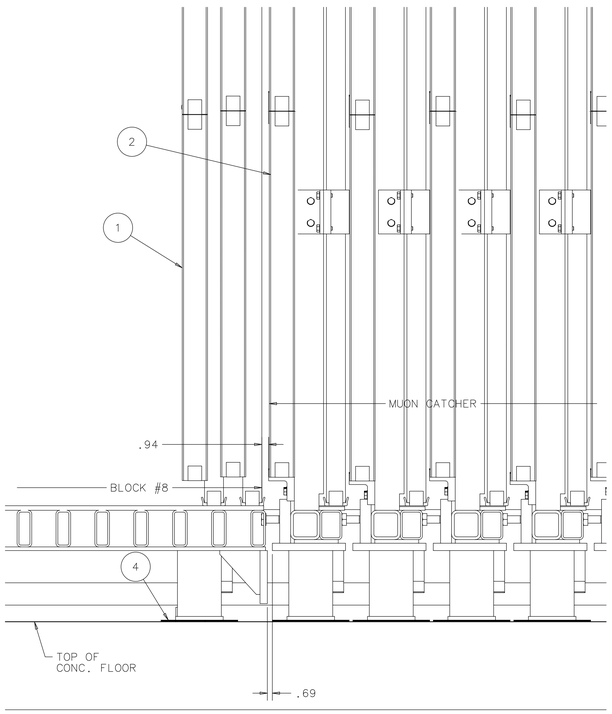
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



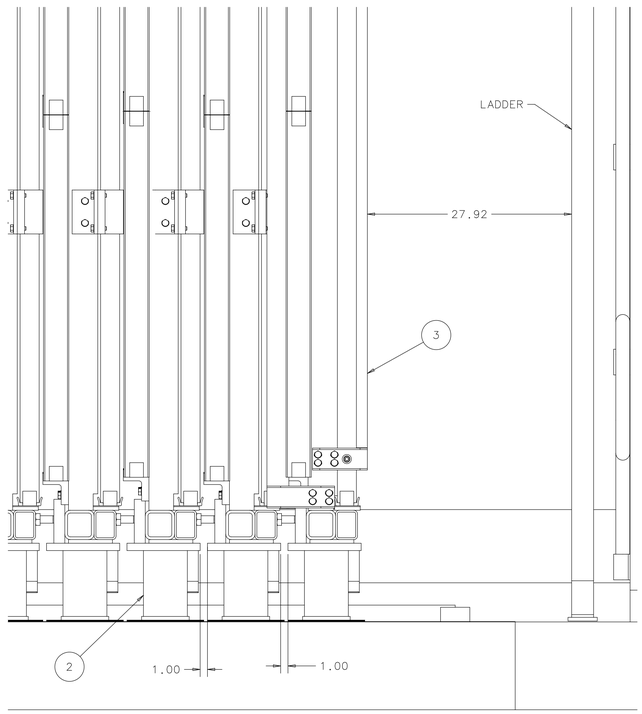
SECTION B-B
SCALE: 1/2" = 1'-0"



DETAIL C
SCALE: 1:8



DETAIL D
SCALE: 1:8



DETAIL E
SCALE: 1:8

PRELIMINARY
22-JAN-2013

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S. INCH					

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

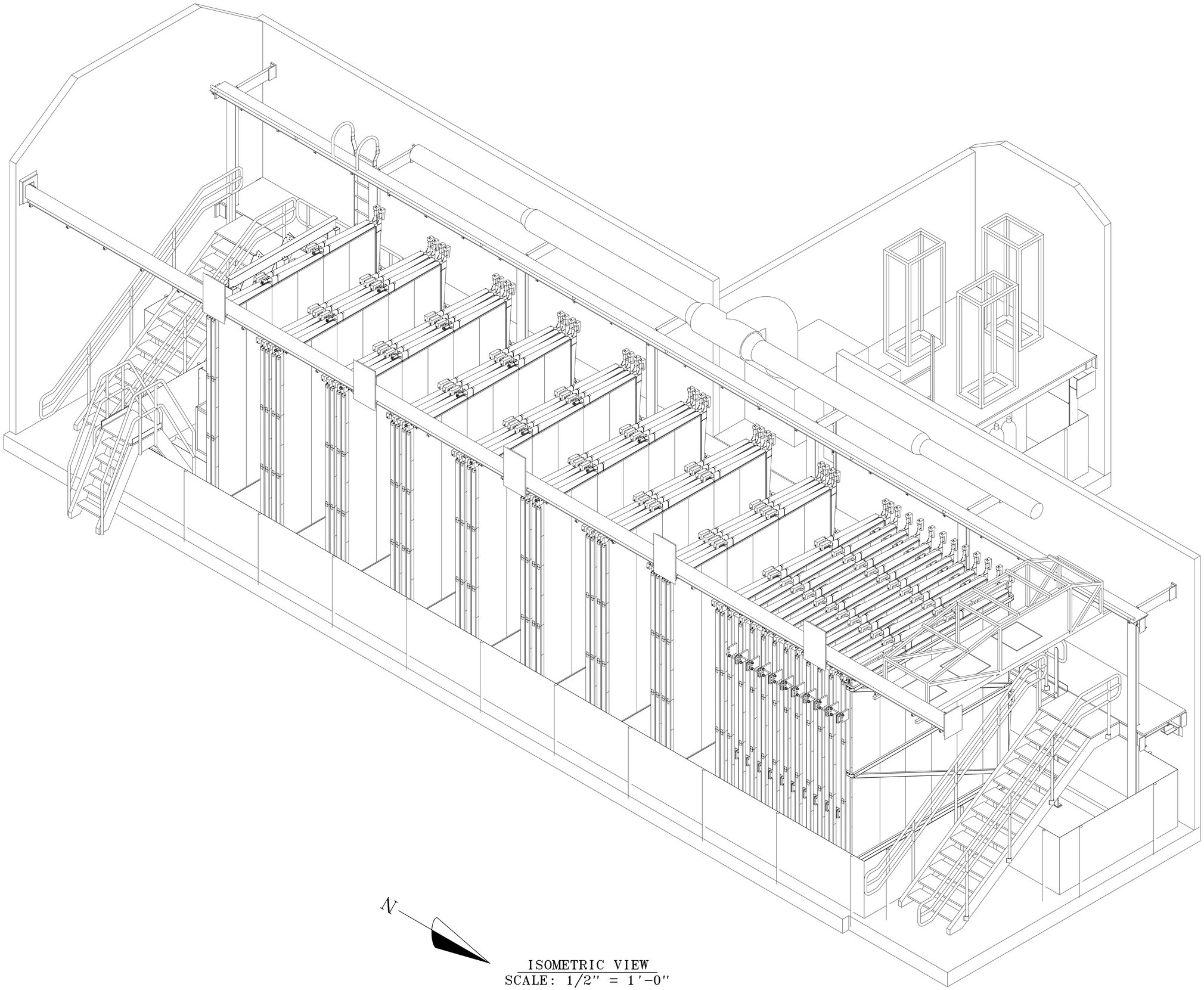
NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	5 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:38:35 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



N

ISOMETRIC VIEW
SCALE: 1/2" = 1'-0"

PRELIMINARY
22-JAN-2013

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING.			USED ON		
3. DIMENSIONS BASED UPON ASME Y14.5M-1994					
4. MAX. ALL MACH. SURFACES			MATERIAL	SEE PARTS LIST ABOVE	
5. DRAWING UNITS: U.S.INCH					

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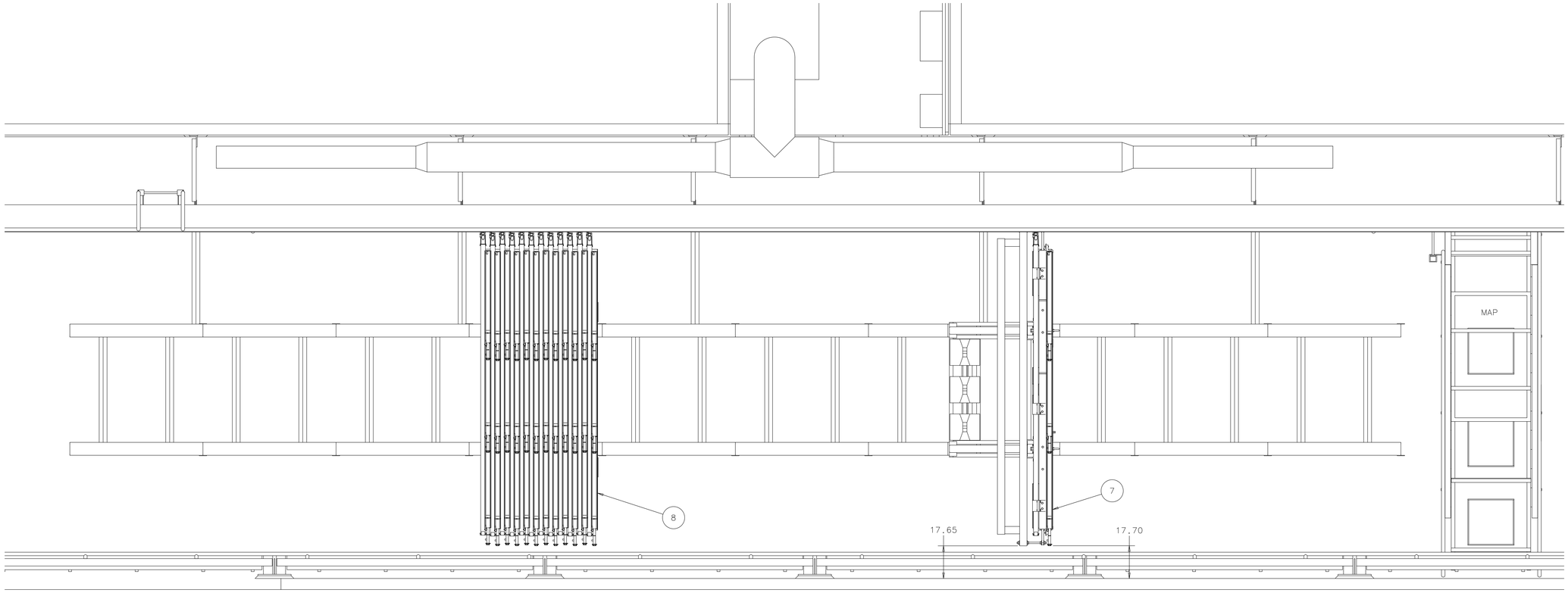
UNITED STATES DEPARTMENT OF ENERGY

NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

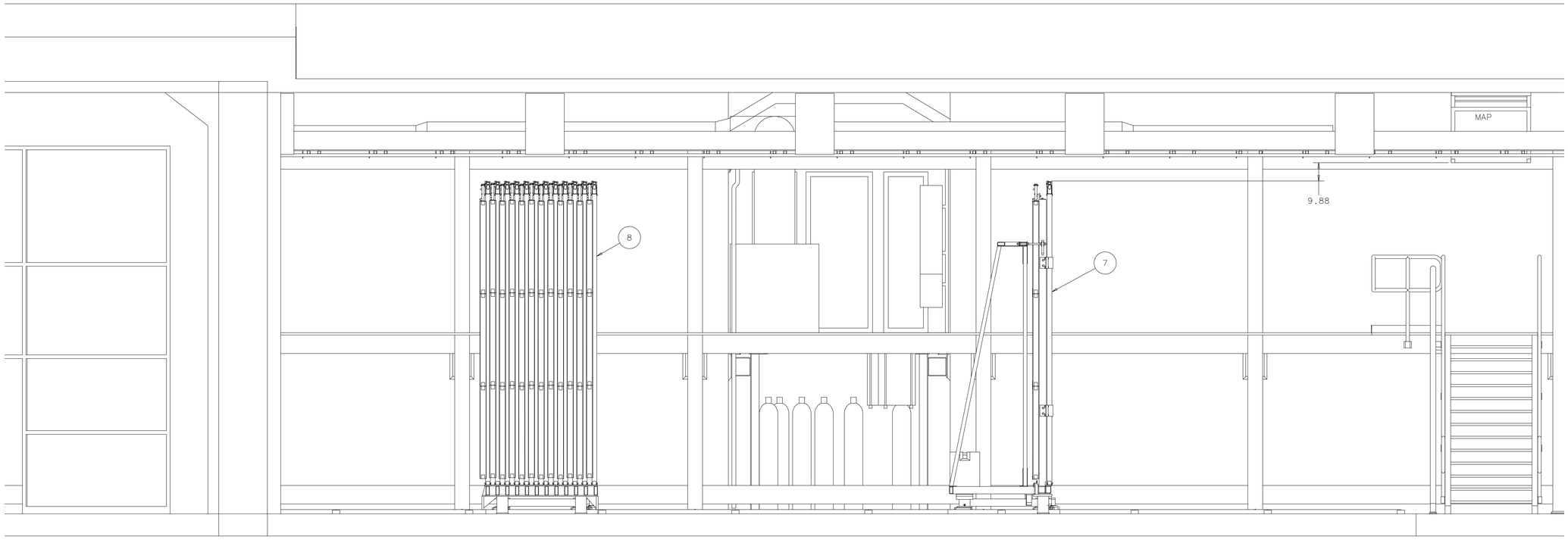
SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	6 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



PLAN VIEW
MUON CATCHER MODULE
& 24 PLANE BLOCK TRANSPORT
ASSEMBLIES
SCALE: 1/2"=1'-0"



PLAN VIEW
MUON CATCHER MODULE
& 24 PLANE BLOCK TRANSPORT
ASSEMBLIES
SCALE: 1/2"=1'-0"

PRELIMINARY
22-JAN-2013

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	E.VILLEGAS	22-JAN-2013
.XX	.XXX	ANGLES	DRAWN	D.FRIEND	22-JAN-2013
± .25	± ---	± ---	CHECKED		
1. BREAK ALL SHARP EDGES MAX.			APPROVED		
2. DO NOT SCALE DRAWING. 3. DIMENSIONS BASED UPON ASME Y14.5M-1994 4. MAX. ALL MACH. SURFACES			USED ON		
5. DRAWING UNITS: U.S.INCH			MATERIAL	SEE PARTS LIST ABOVE	

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UNITED STATES DEPARTMENT OF ENERGY

NOVA-NEAR_DETECTOR
NEAR DETECTOR INSTALLATION
ND CAVERN ASSEMBLY LAYOUT

SCALE	DRAWING NUMBER	SHEET	REV
AS NOTED	3929.330-ME-493175	7 OF 7	

CREATED WITH : Ideas12NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT

Created: 14:39:09 on 22-01-13 (D-M-Y) By: friend State: 1-INITIAL