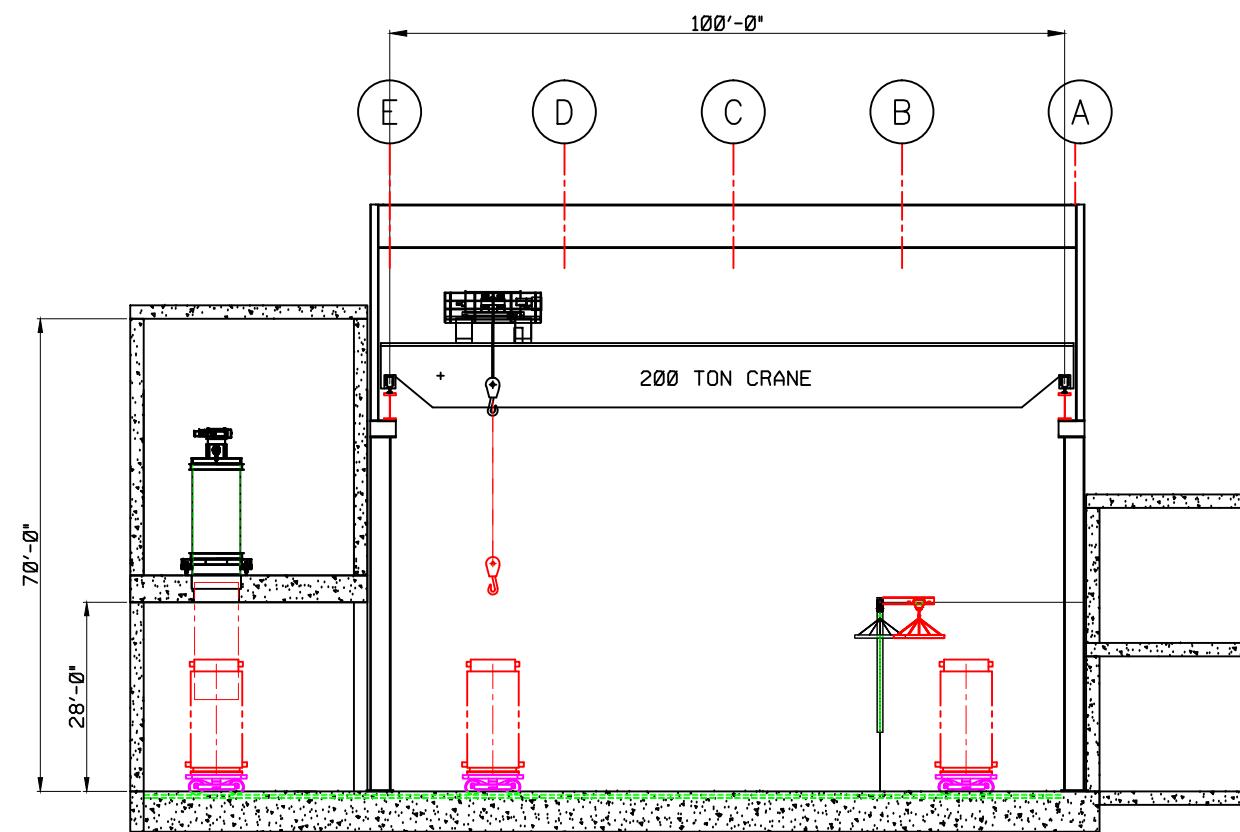
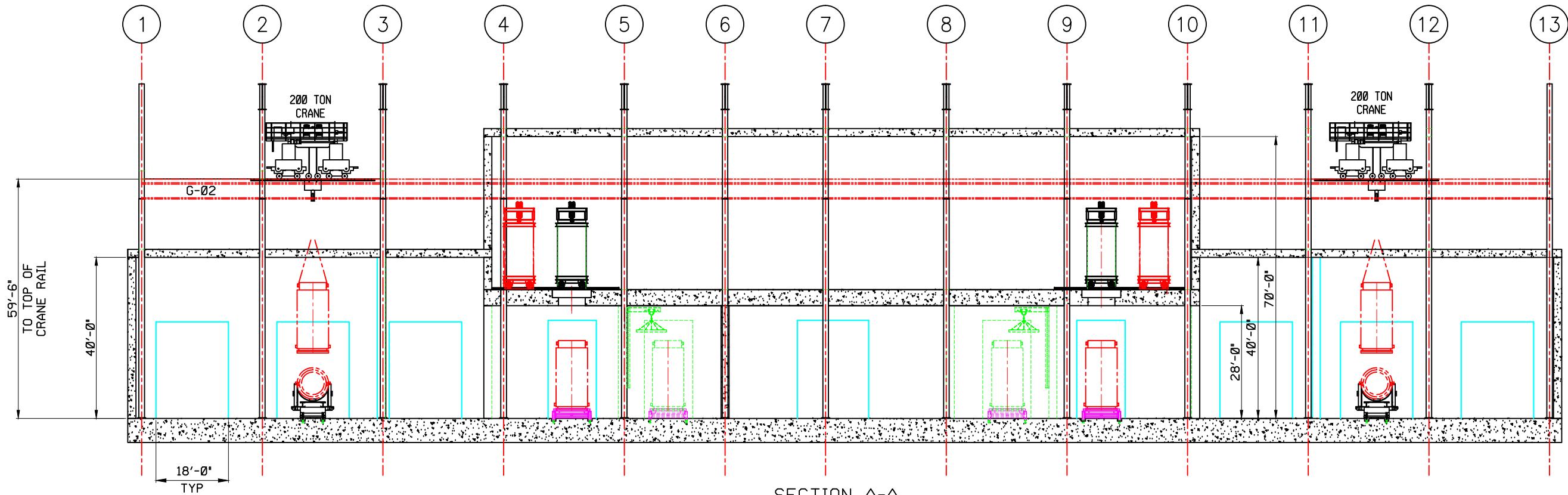


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CASK HANDLING BUILDING PLAN

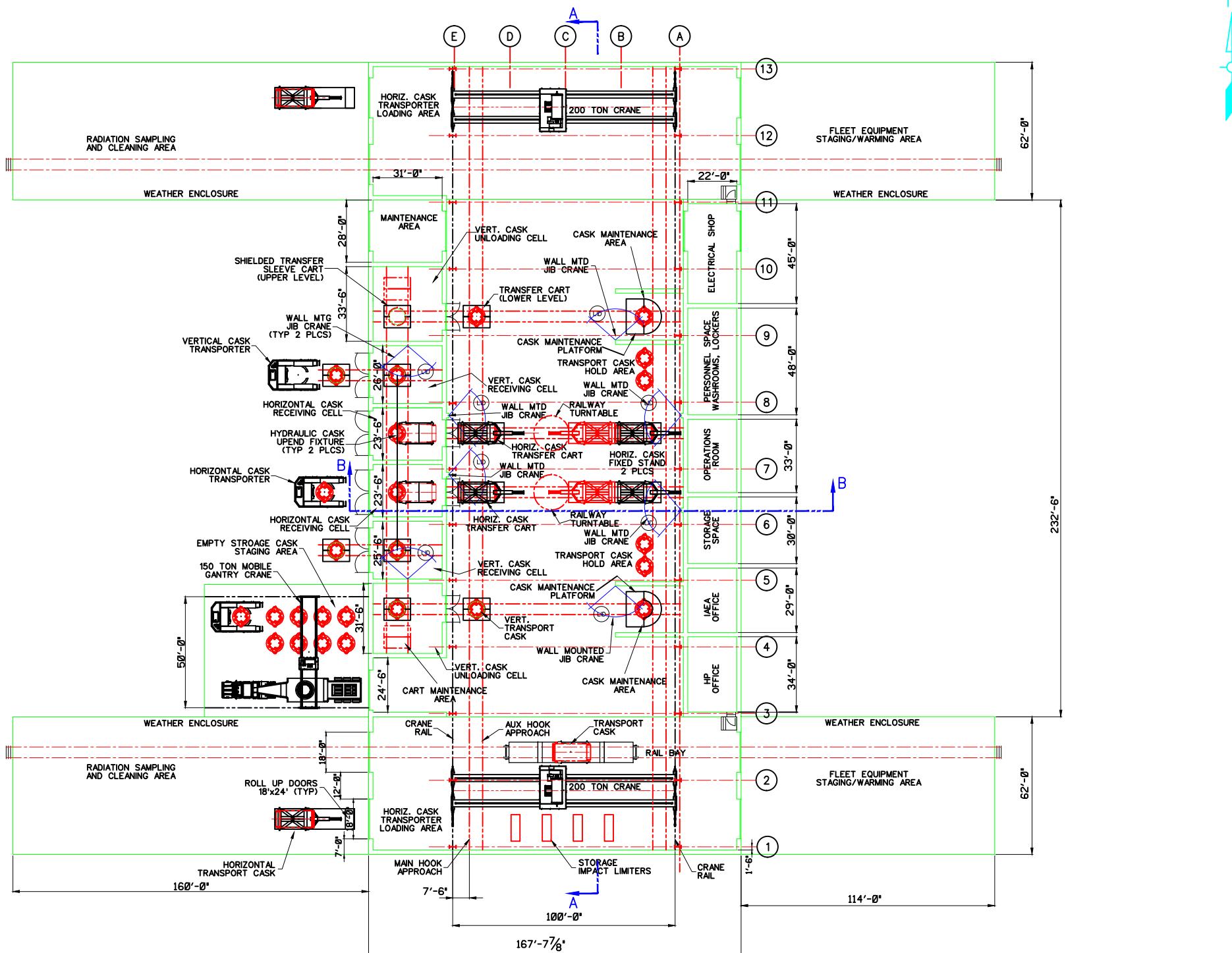
CHB-CPAD, CSTDB, CAGVD, CBGVD T016-S1-CPAD-CHB-1



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CASK HANDLING BUILDING ELEVATIONS

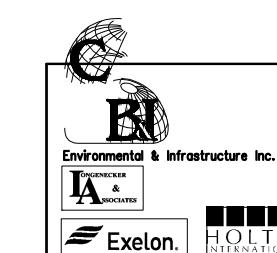
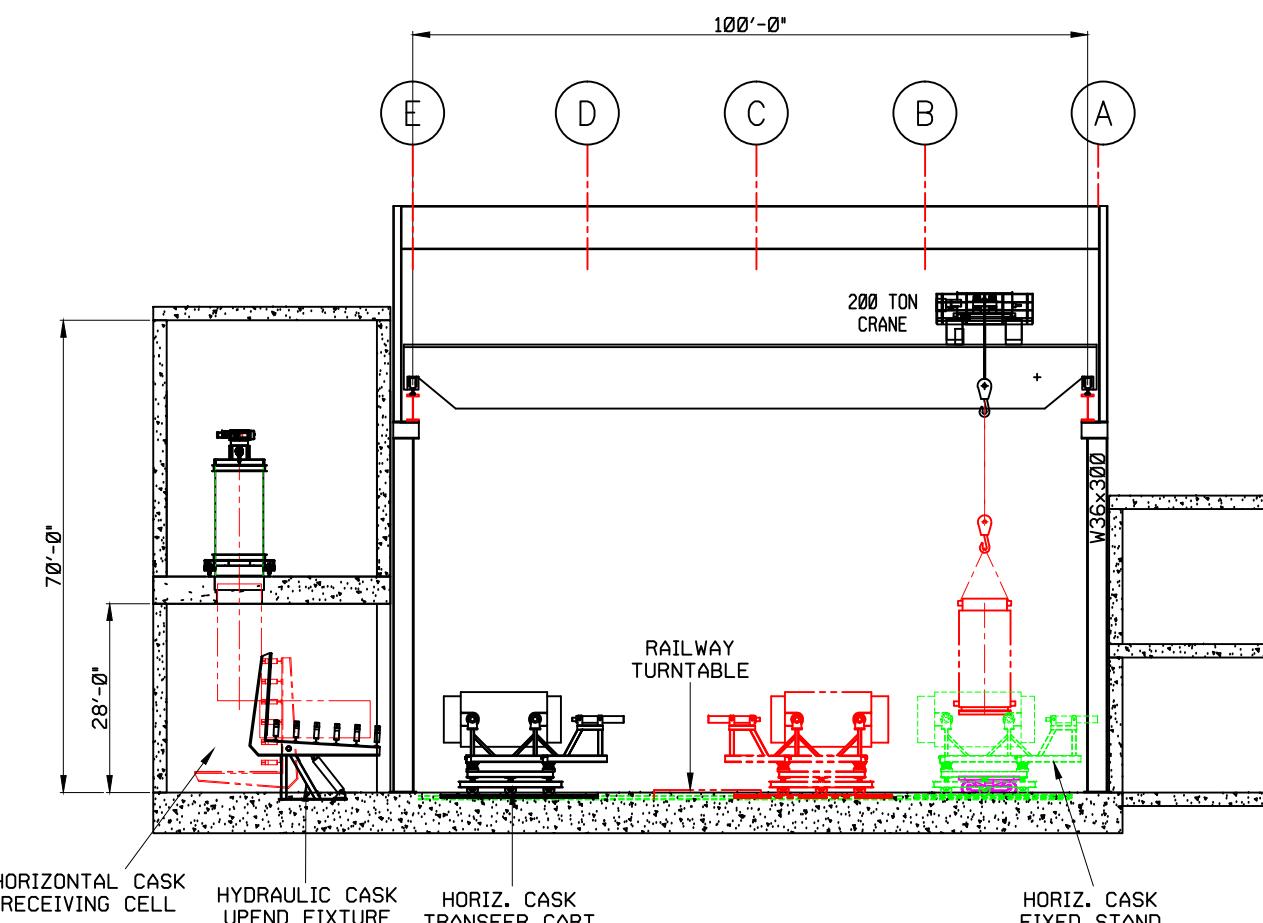
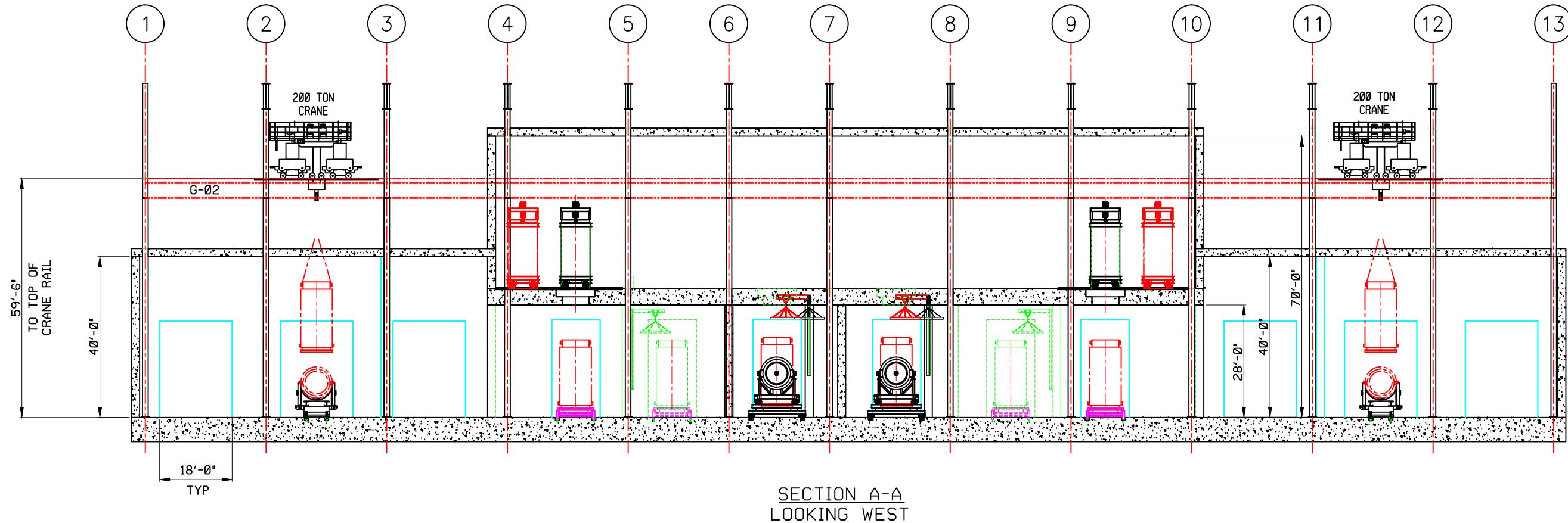
CHB-CPAD, CSTDB, CAGVD, CBGVD	T016-S1-CPAD-CHB-2
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CASK HANDLING BUILDING PLAN

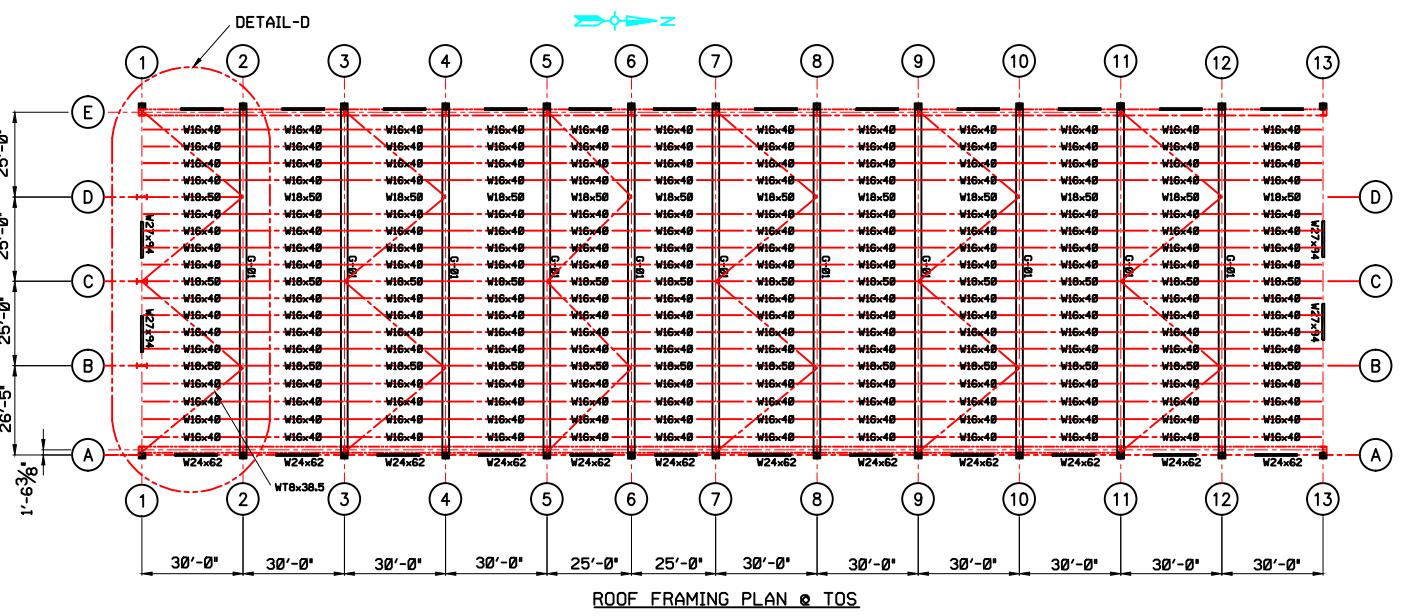
CHB-CSTDAs, CSTDCs, CUGS, CAGVC, CBGVC	T016-S1-CPAD-CHB-3
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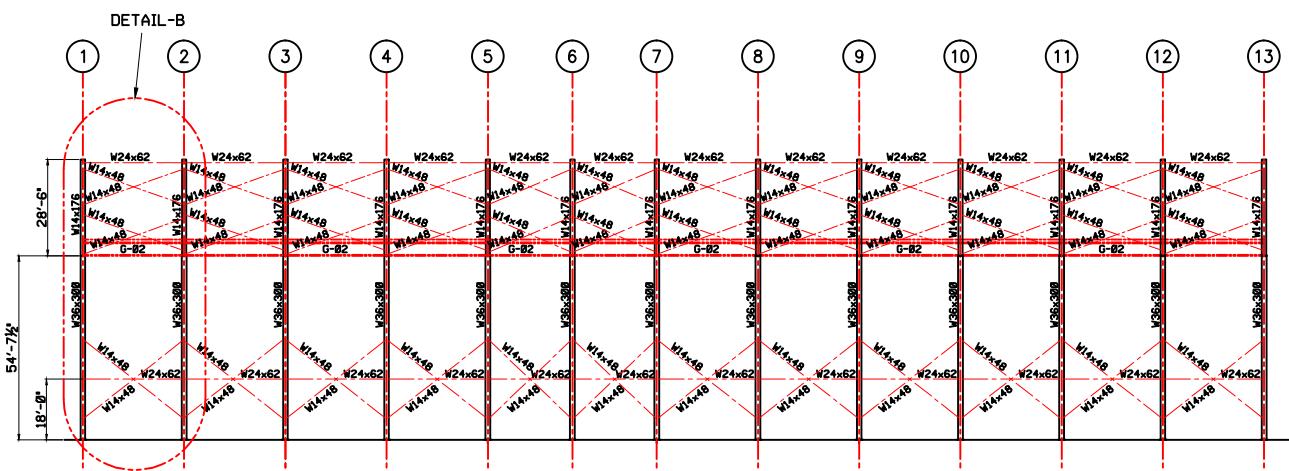
U.S. Department of Energy
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CASK HANDLING BUILDING ELEVATIONS

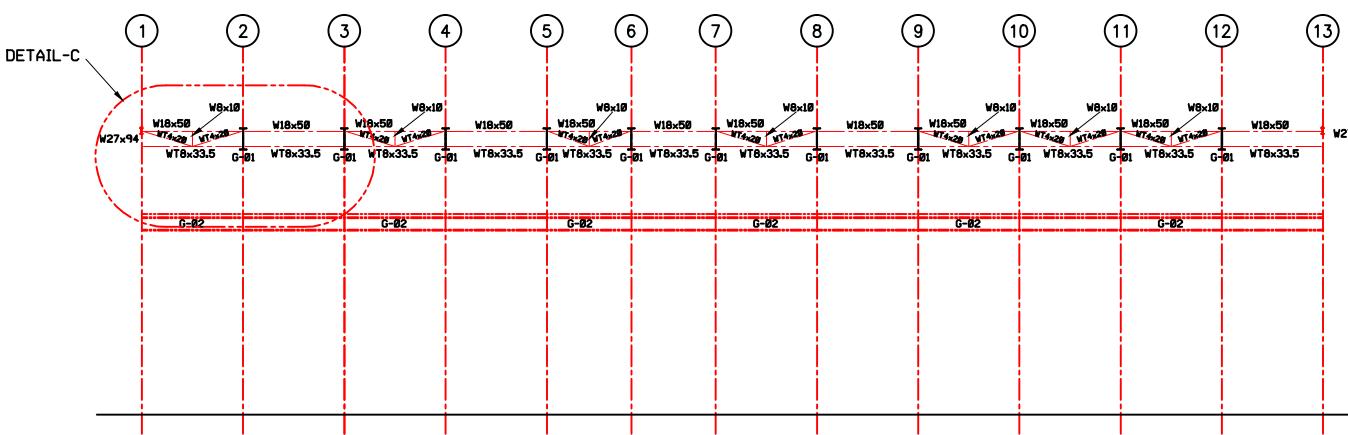
CHB-CSTDA,CSTDC,CUGS,CAGVC,CBGVC	T016-S1-CPAD-CHB-4
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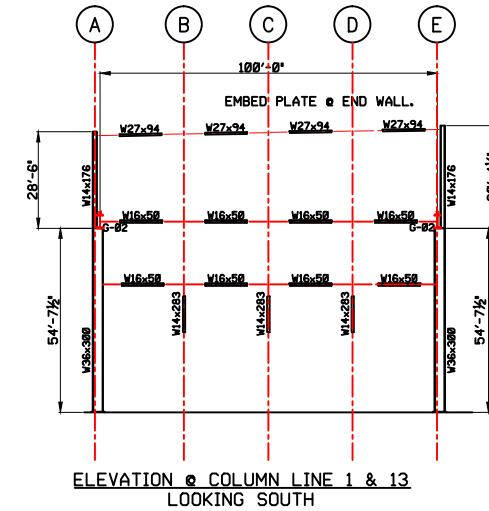
ROOF FRAMING PLAN & TOS



EL E V A T I O N & C O L U M N L I N E A
LOOKING WEST



ELEVATION @ COLUMN LINE B. C & D
LOOKING WEST



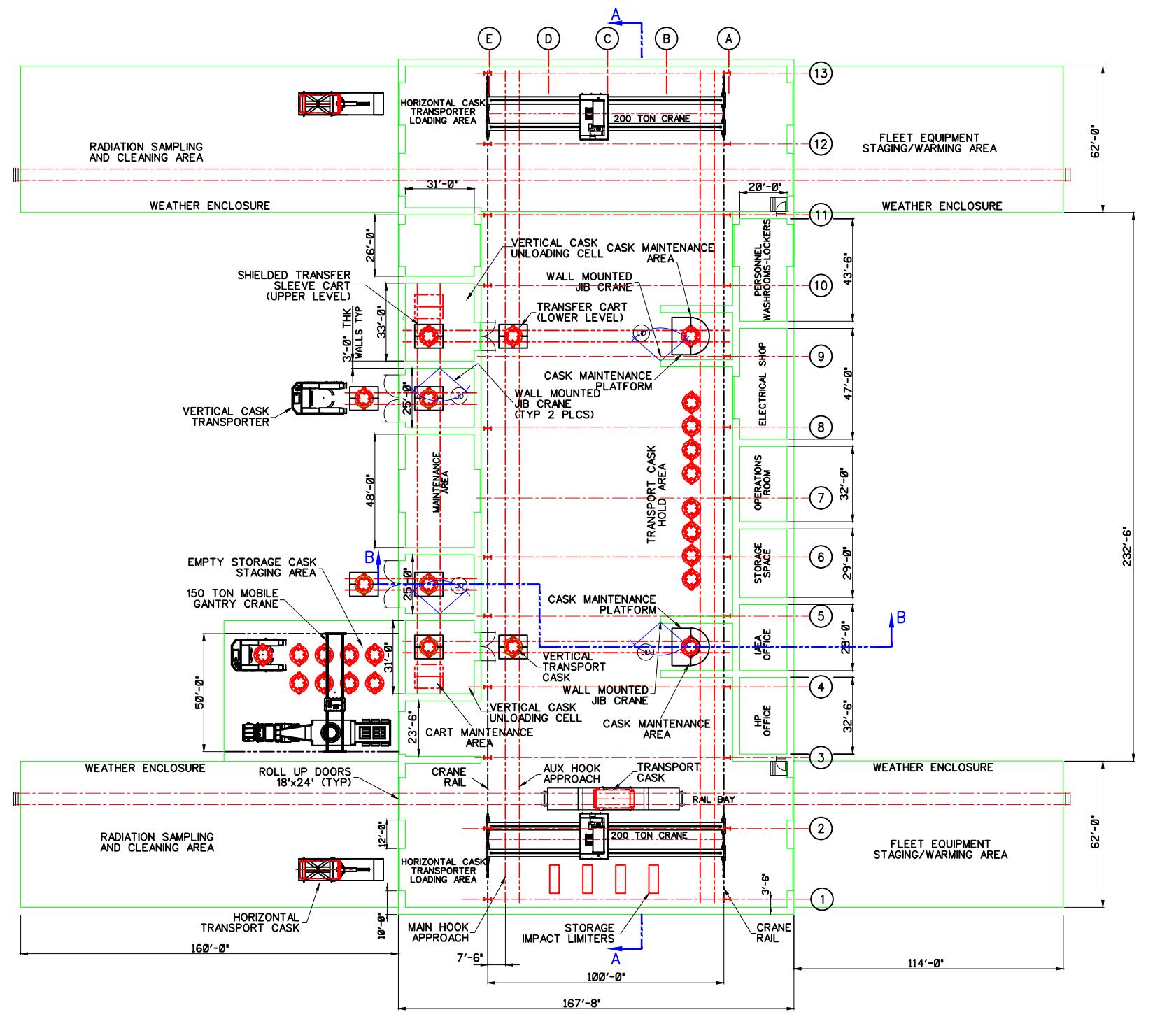
ELEVATION @ COLUMN LINE 1 & 13
LOOKING SOUTH



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CASK HANDLING BUILDING STRUCTURAL STEEL

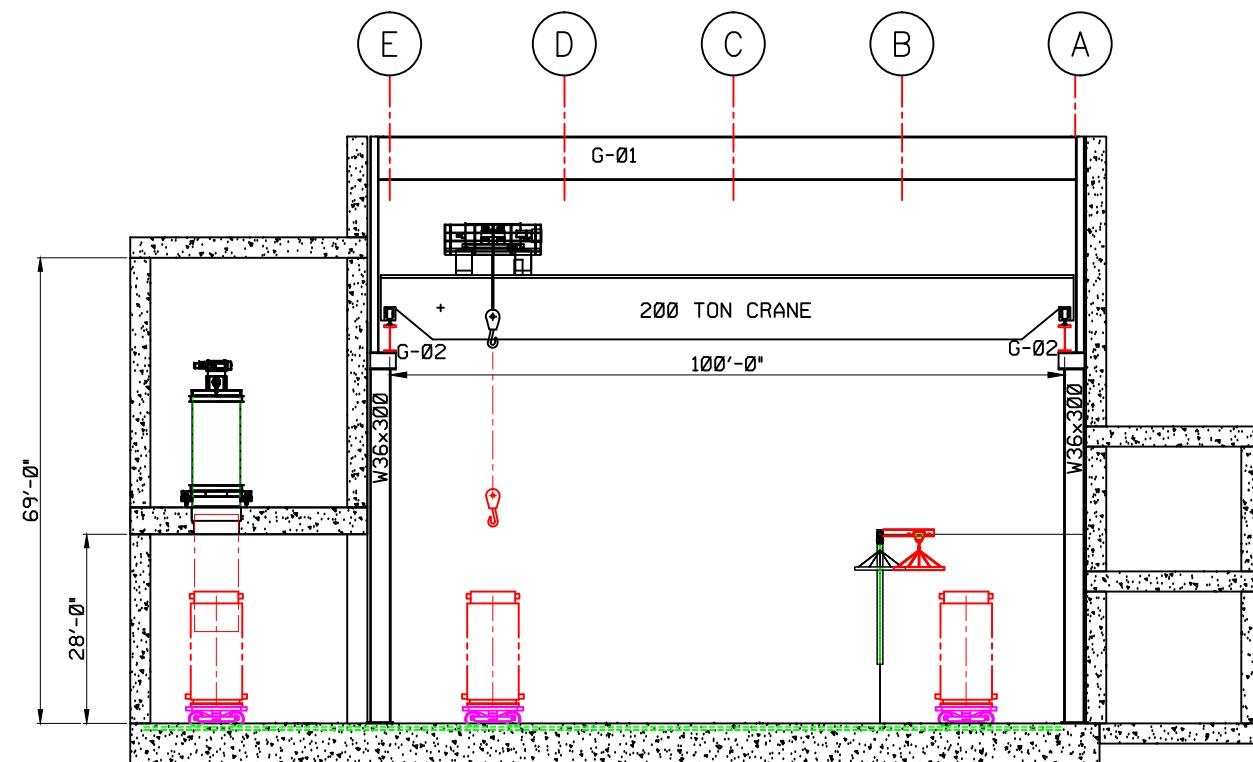
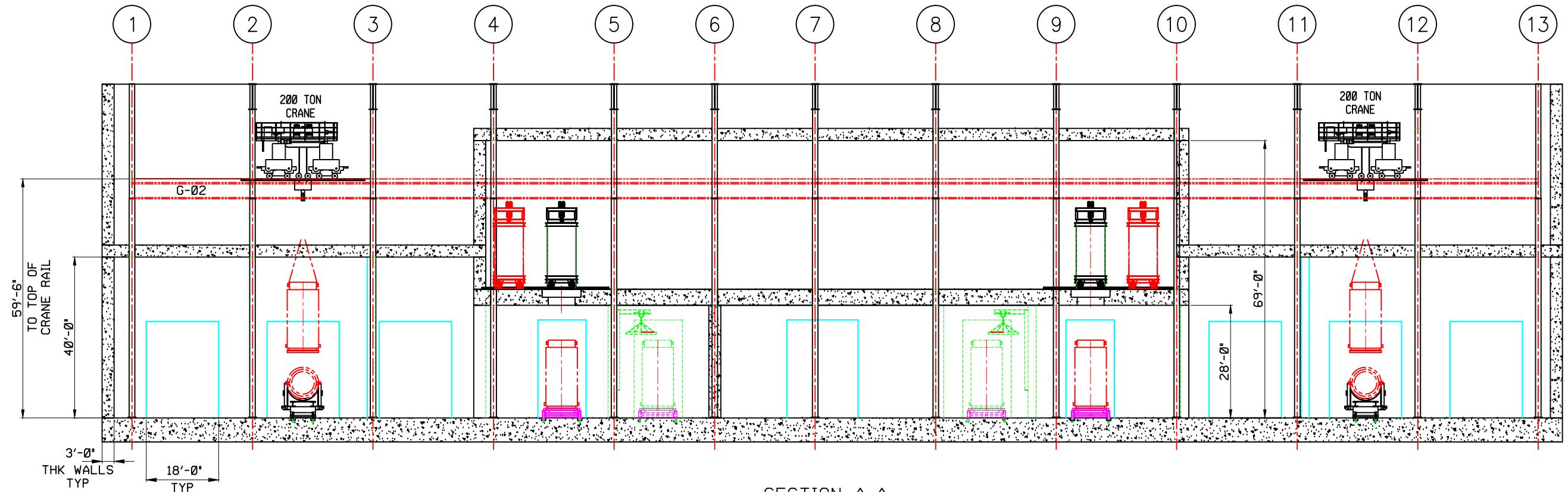
CPAD,CSTDA-B-C,CUGS,CAGVC-D,CBGVC-D T016-S1-CPAD-CHB-5



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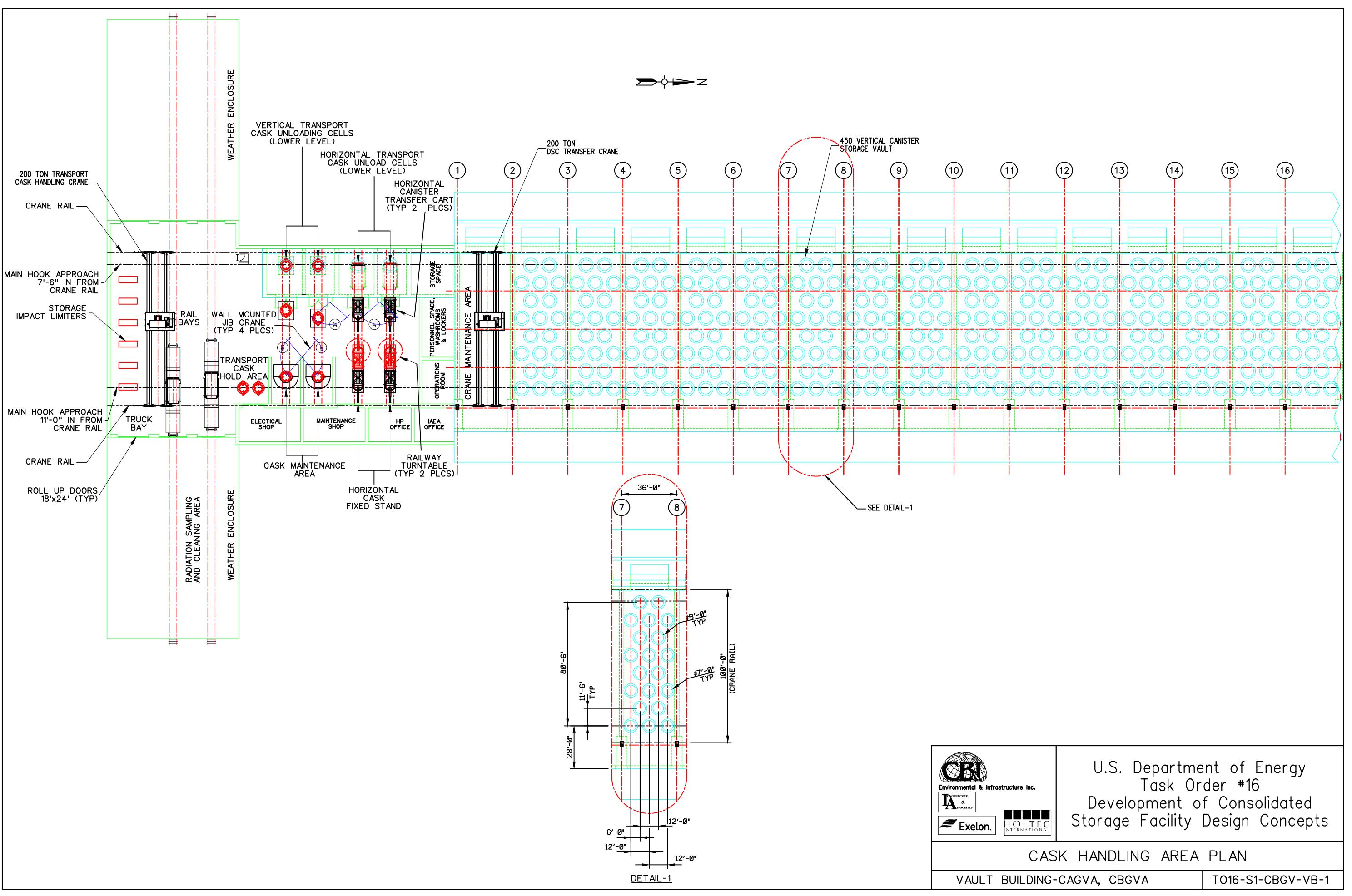
CASK HANDLING BUILDING-PLAN-HIGH SEISMIC

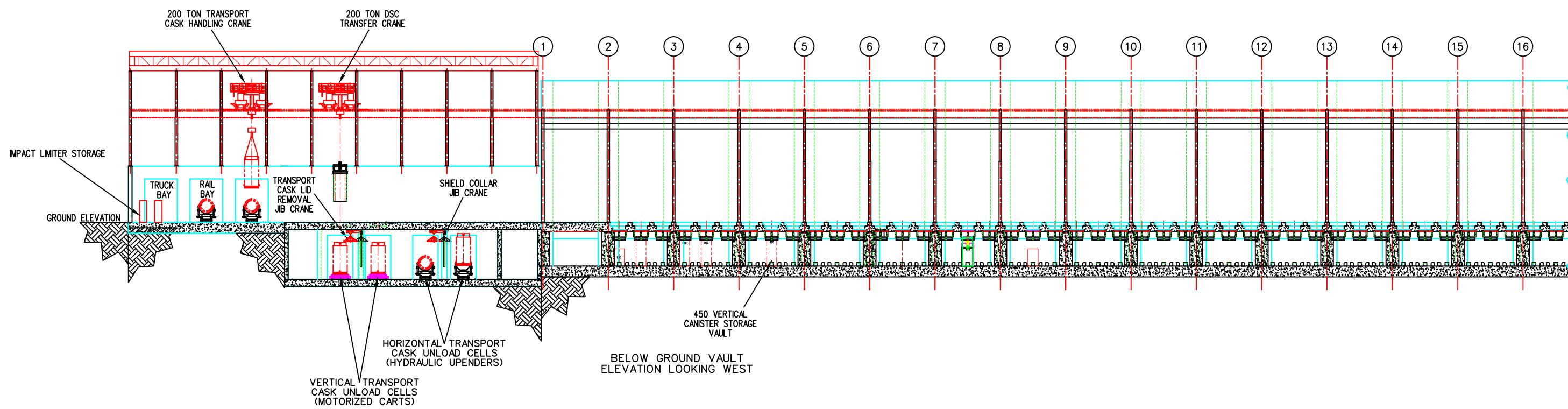
CPAD,CSTDA-B-C,CUGS,CAGVC-D,CBGVC-D T016-S1-CPAD-CHB-6



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CASK HANDLING BUILDING-ELEVATIONS-HIGH SEISMIC
CPAD,CSTDA-B-C,CUGS,CAGVC-D,CBGVC-D T016-S1-CPAD-CHB-7



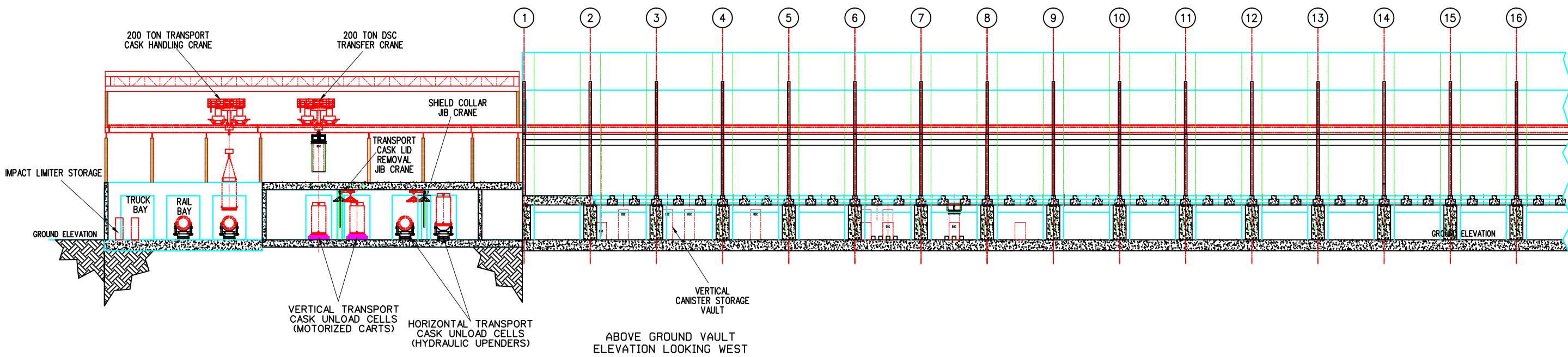


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CASK HANDLING AREA ELEVATION

VAULT BUILDING-CBGVA

T016-S1-CBGV-VB-2

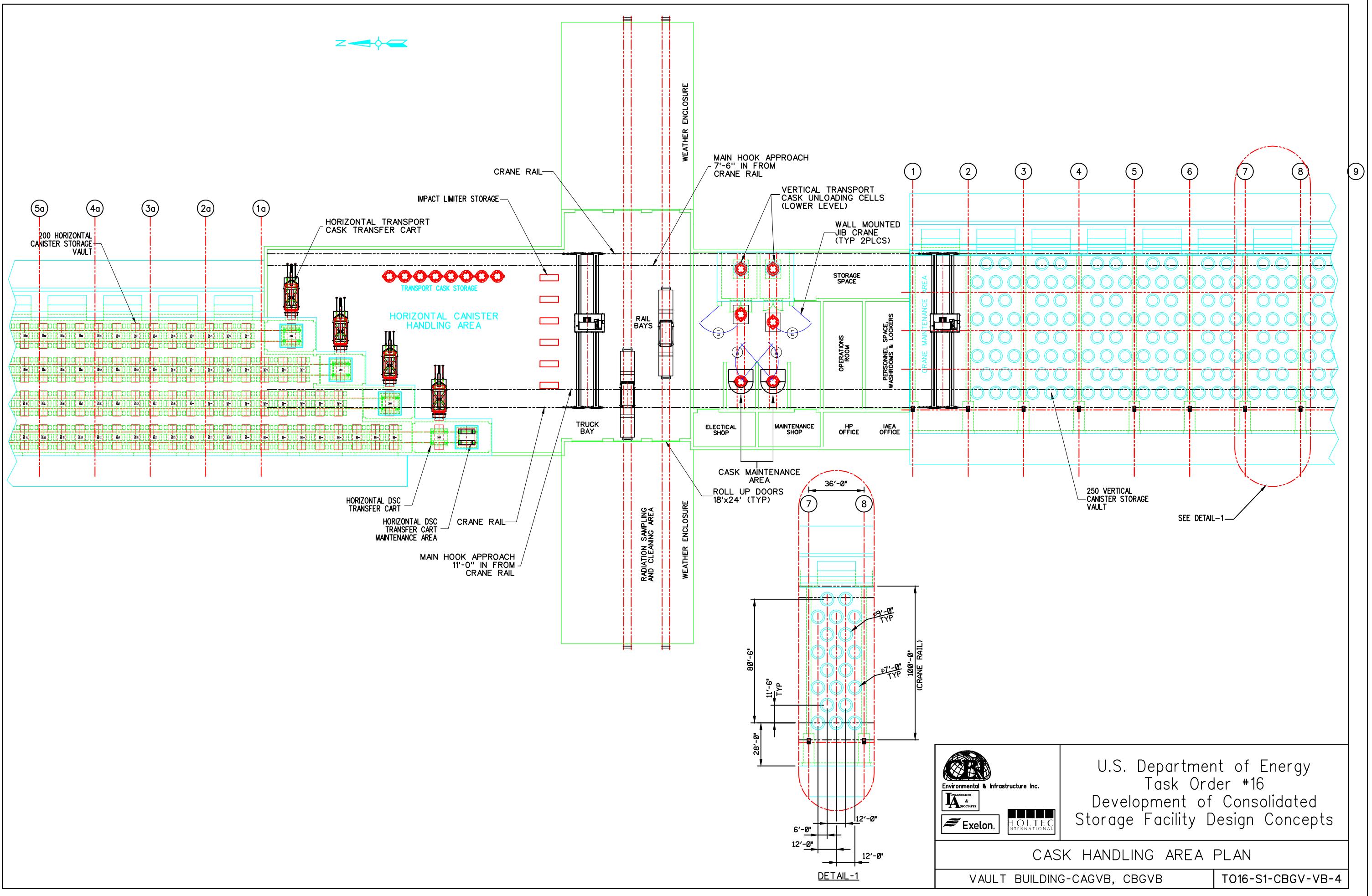


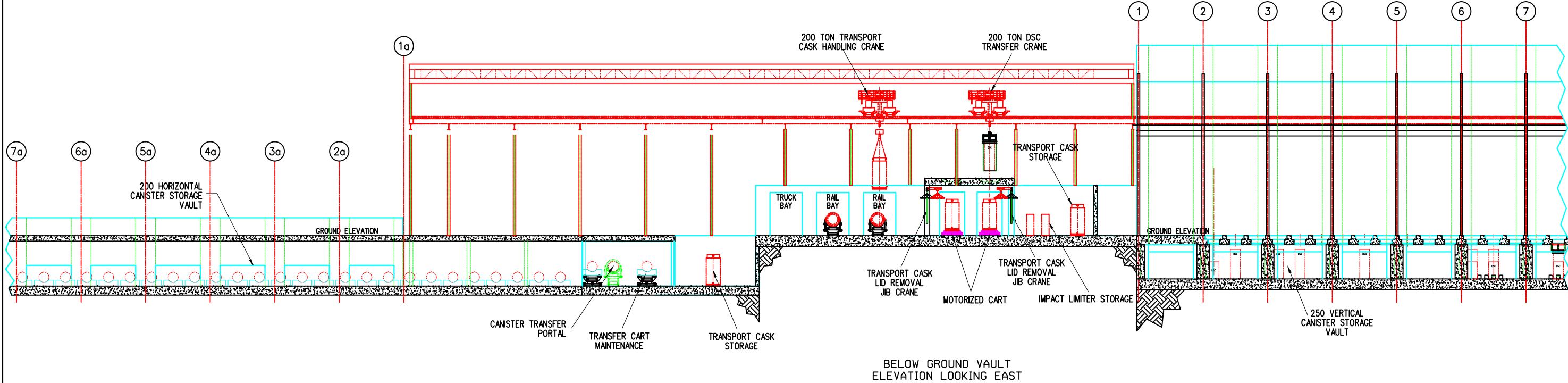
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CASK HANDLING AREA ELEVATION

VAULT BUILDING-CAGVA

T016-S1-CAGV-VB-3



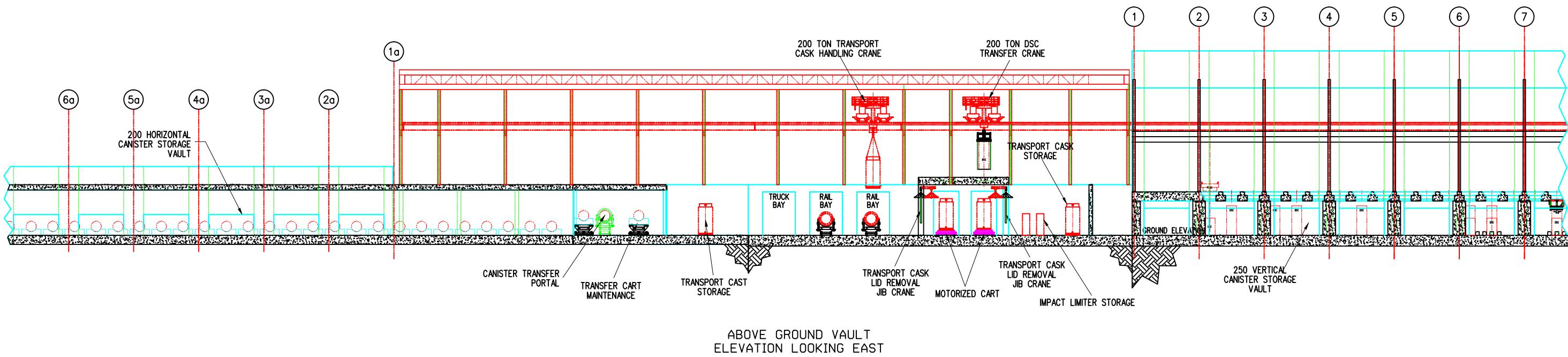


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CASK HANDLING AREA ELEVATION

VAULT BUILDING-CBGVB

T016-S1-CBGV-VB-5

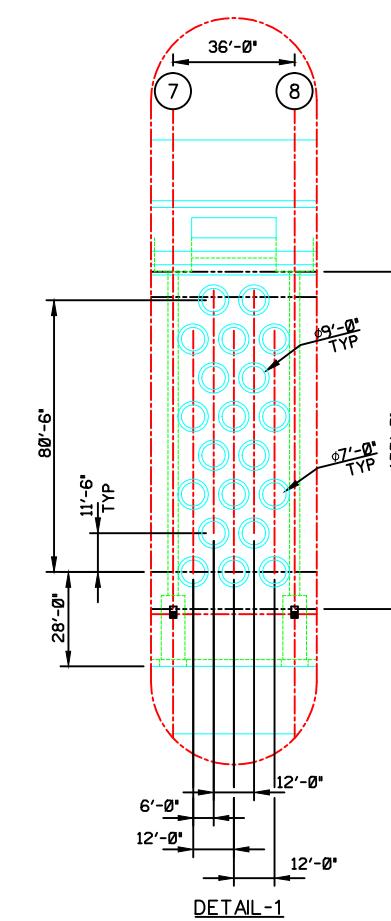
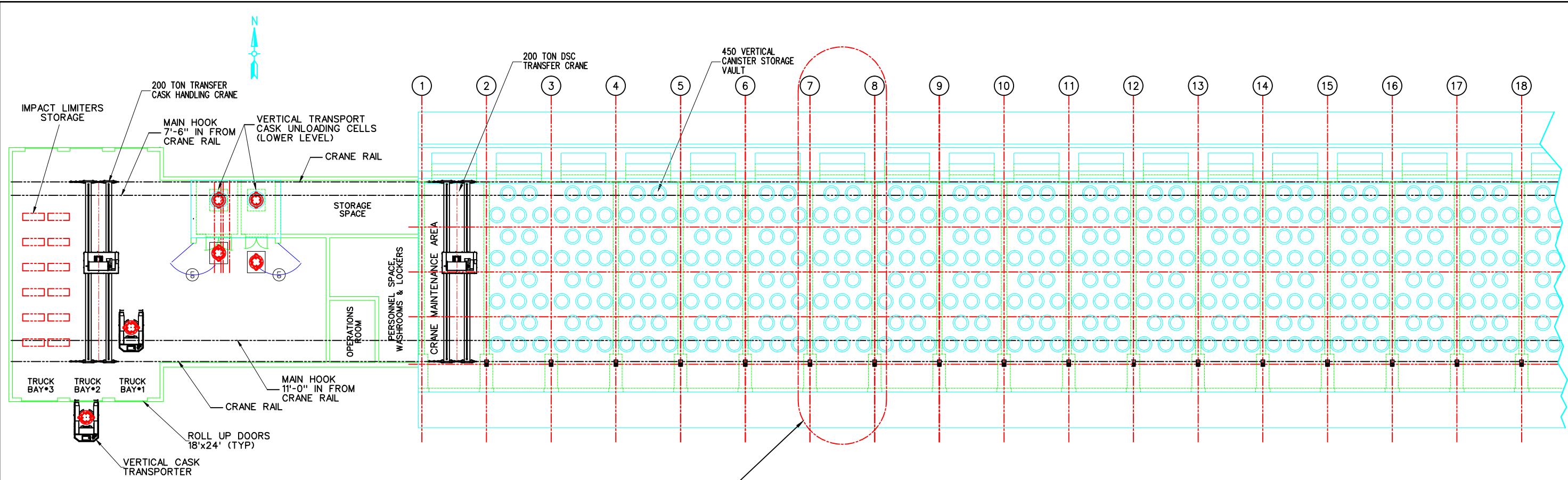


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CASK HANDLING AREA ELEVATION

VAULT BUILDING-CAGVB

T016-S1-CAGV-VB-6

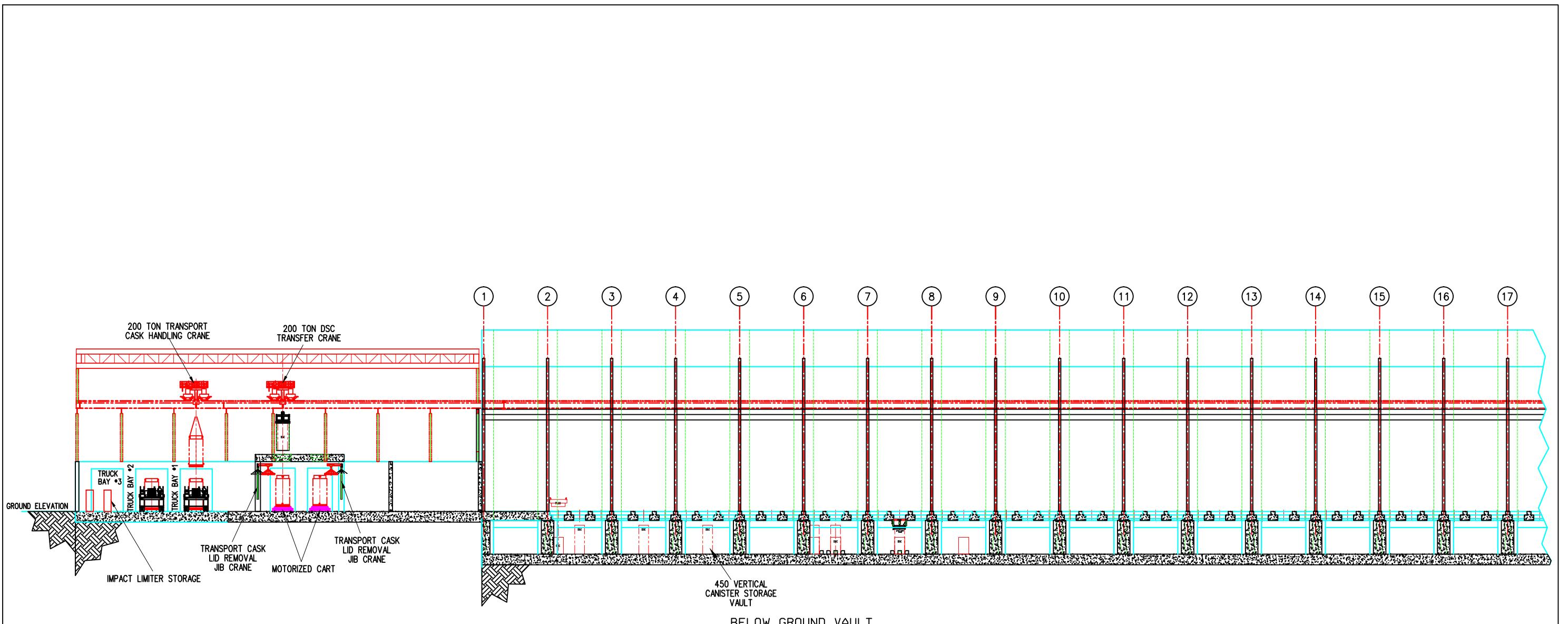


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CASK RECEIVING AREA PLAN

VAULT BUILDING-CAGVC, CBGVC

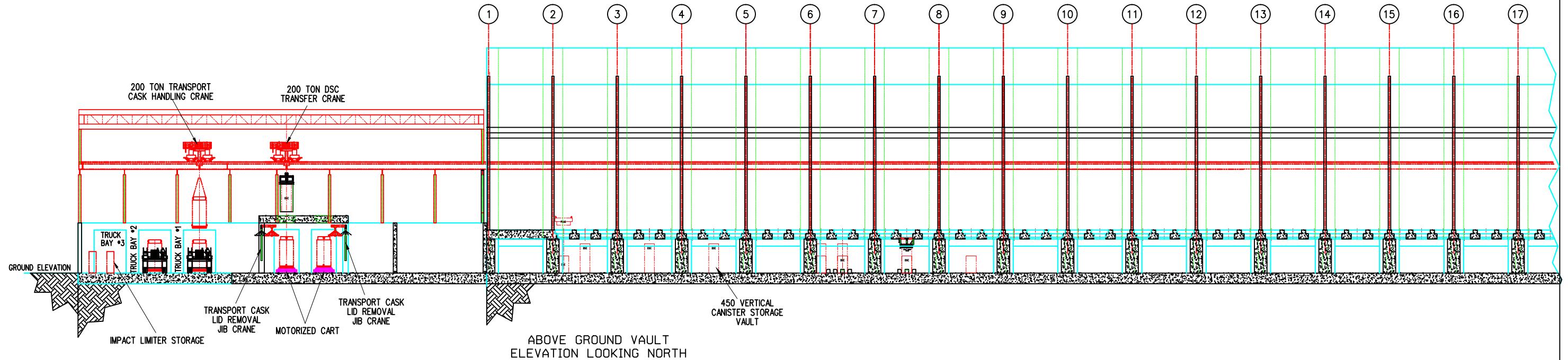
T016-S1-CBGV-VB-7



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CASK RECEIVING AREA ELEVATION

VAULT BUILDING-CBGVC	T016-S1-CBGV-VB-8
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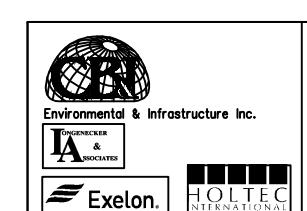
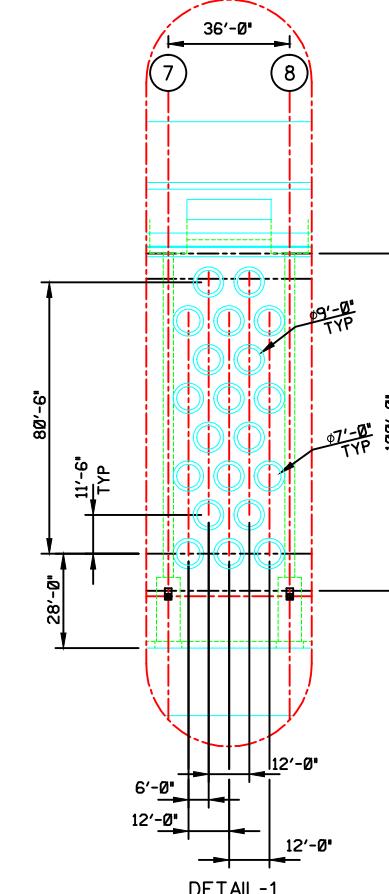
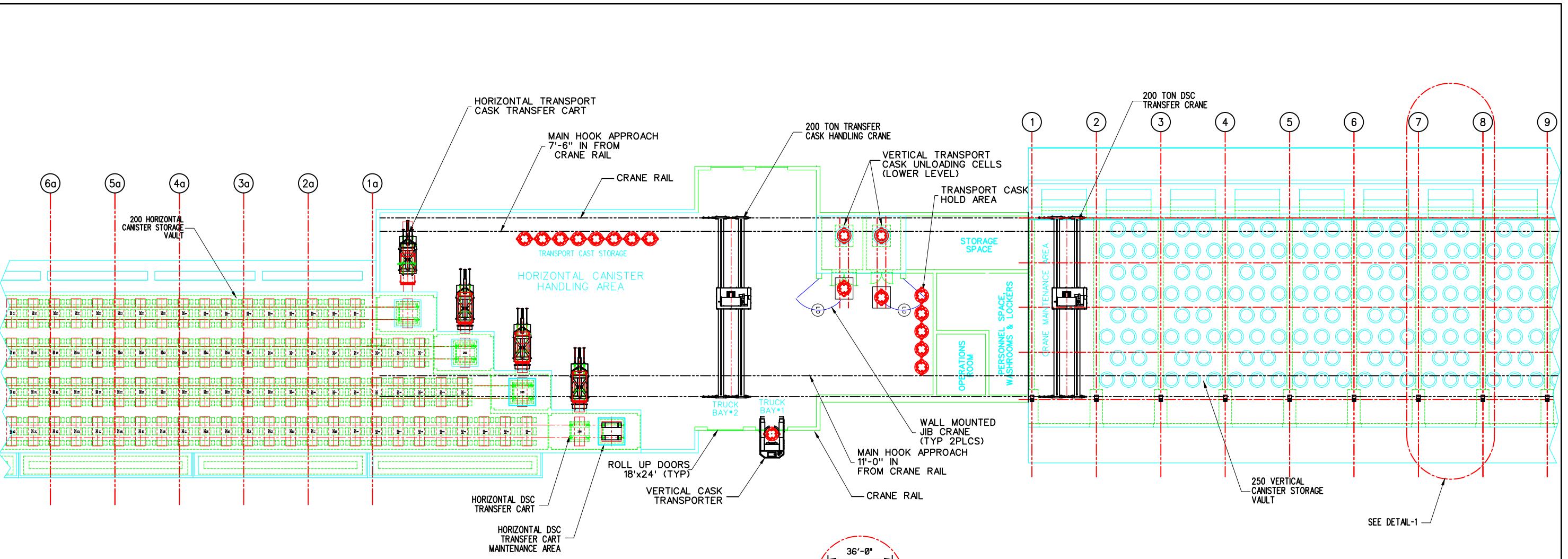


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CASK RECEIVING AREA ELEVATION

VAULT BUILDING-CAGVC

T016-S1-CAGV-VB-9

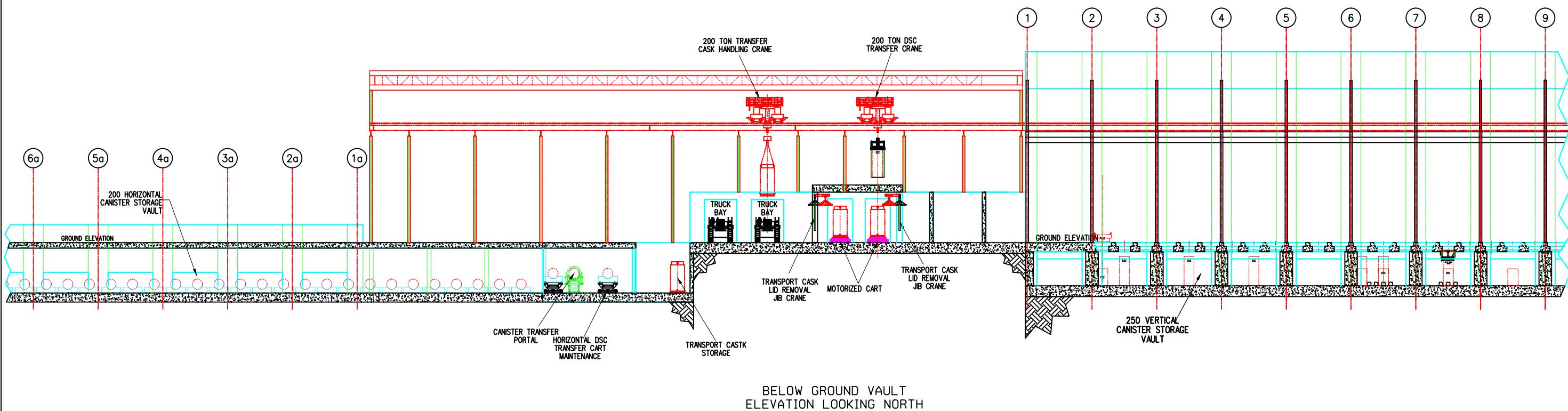


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CASK RECEIVING AREA PLAN

VAULT BUILDING-CAGVD, CBGVD

T016-S1-CBGV-VB-10

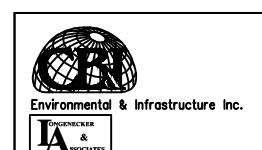
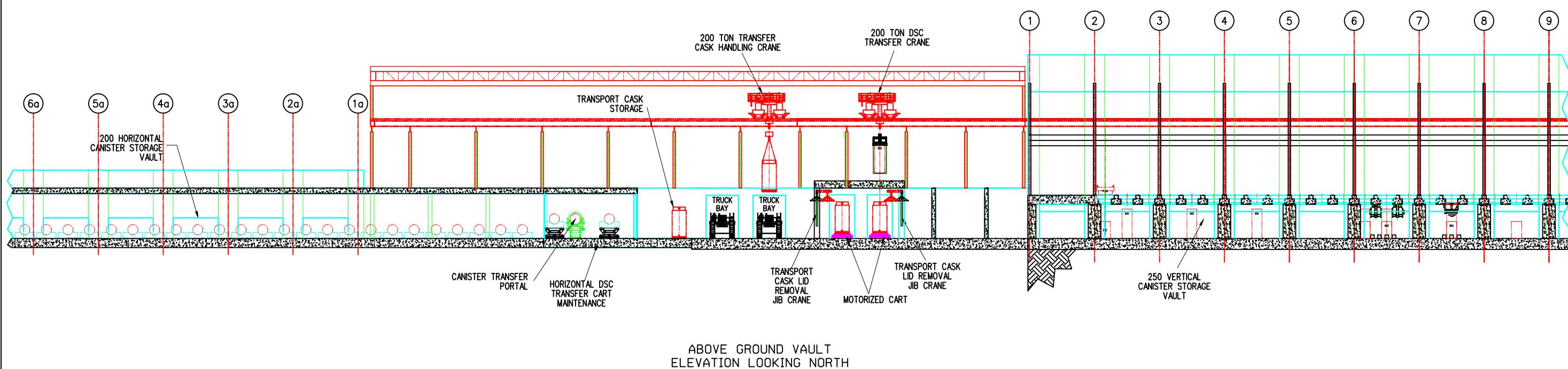


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CASK RECEIVING AREA ELEVATION

VAULT BUILDING-CBGVD

T016-S1-CBGV-VB-11

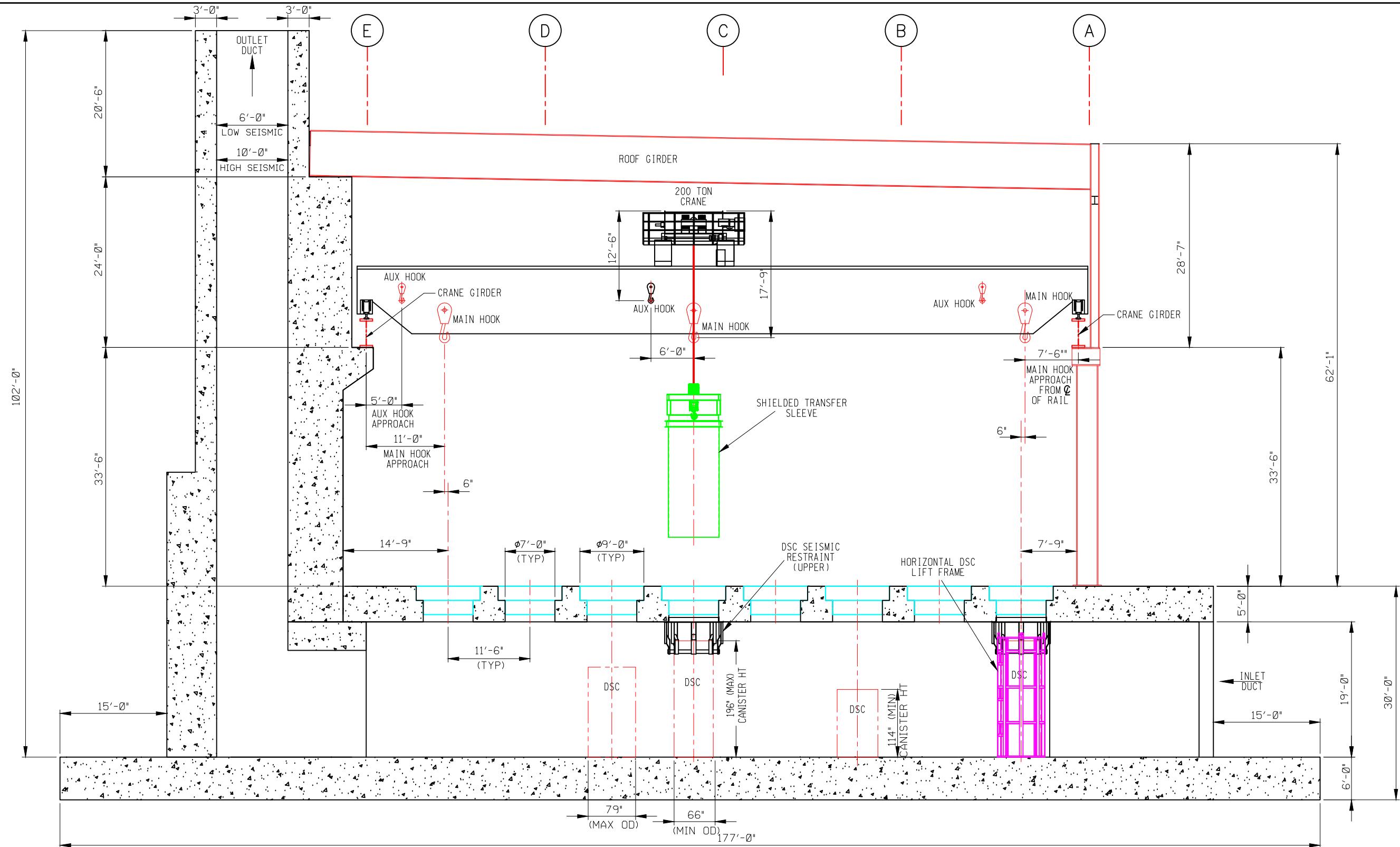


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CASK RECEIVING AREA ELEVATION

VAULT BUILDING-CAGVD

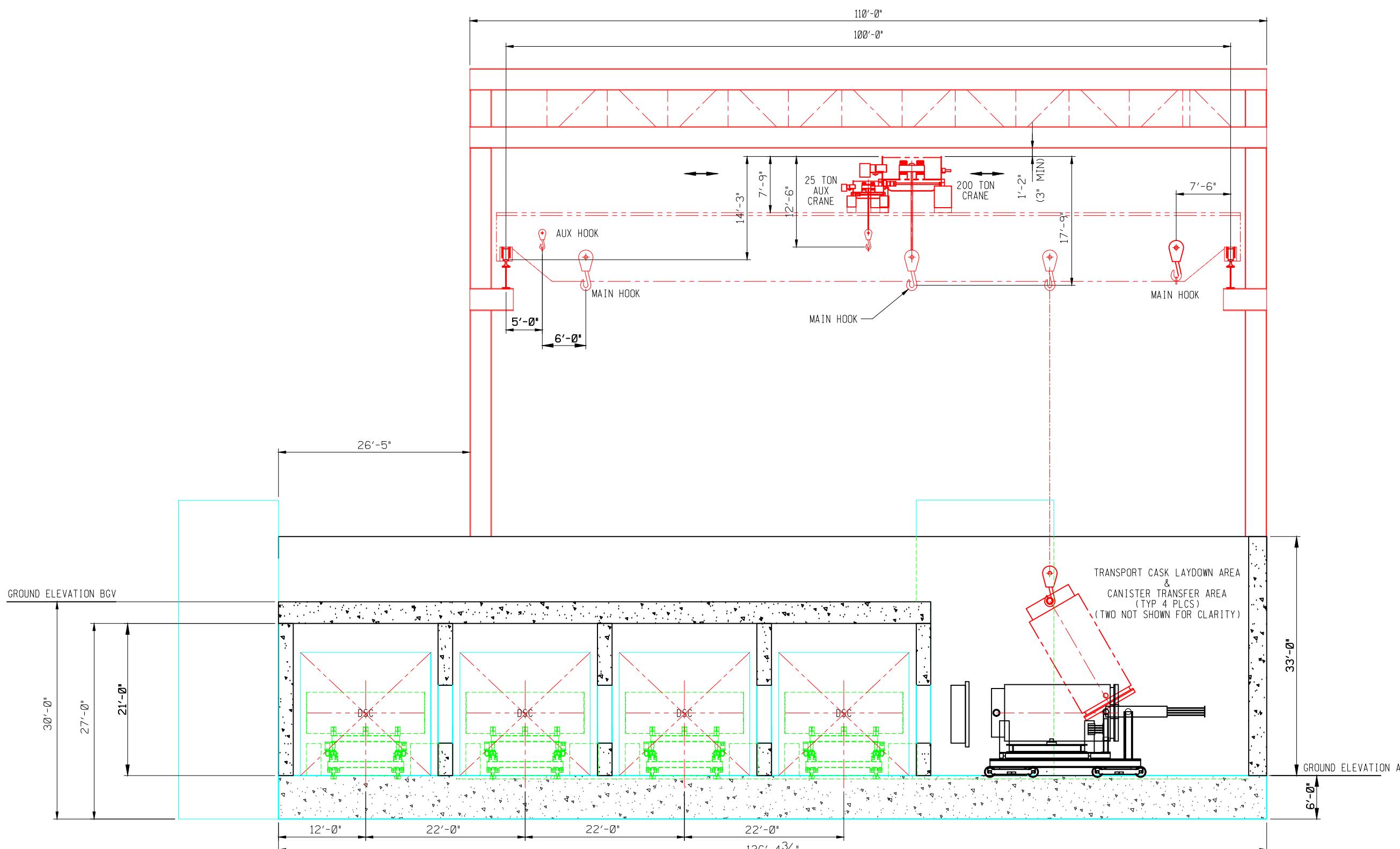
T016-S1-CAGV-VB-12



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VERTICAL STORAGE AREA ELEVATION

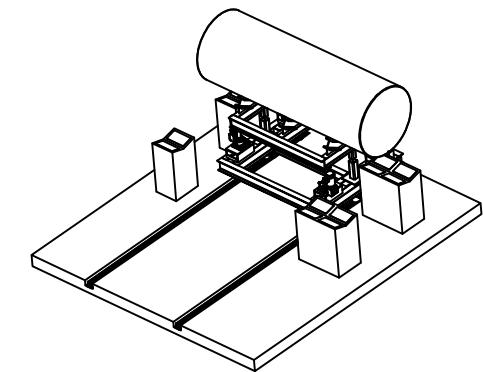
VAULT BUILDING-CAGVA-D, CBGVA-D | TO16-S1-CBGV-VB-13



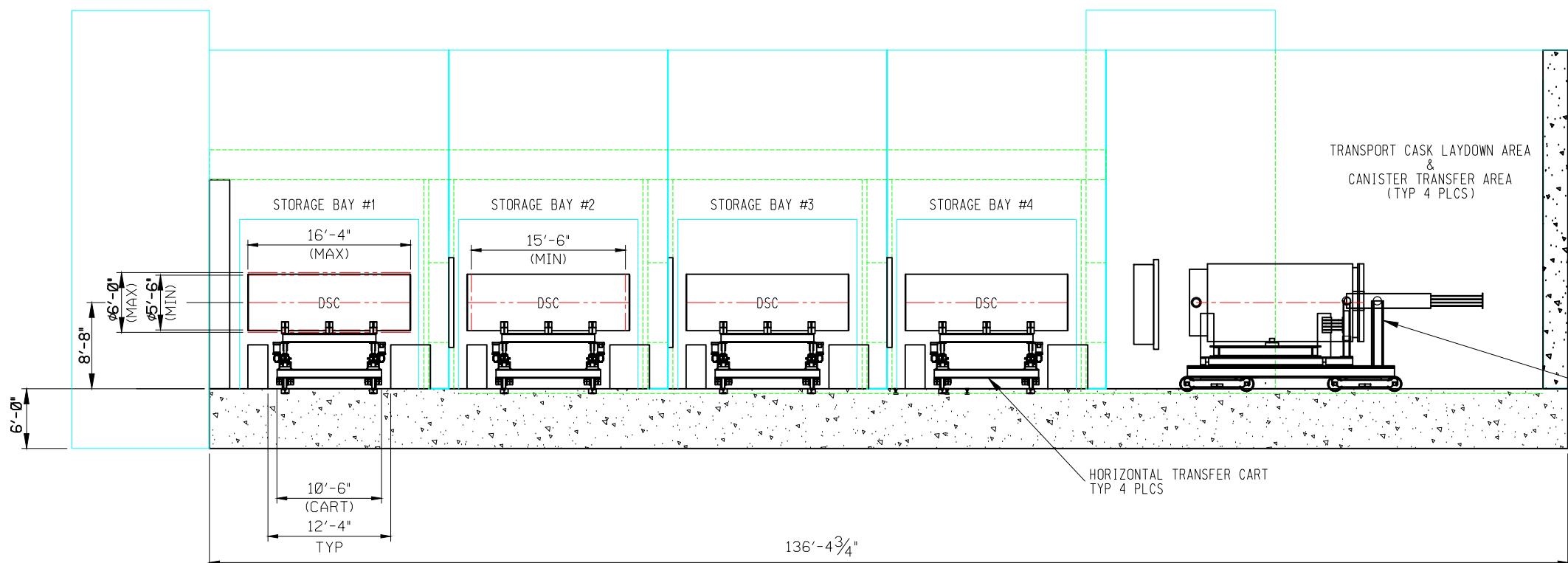
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HORIZONTAL TRANSFER AREA ELEVATION

VAULT BUILDING-CAGVA-D, CBGVA-D T016-S1-CBGV-VB-14



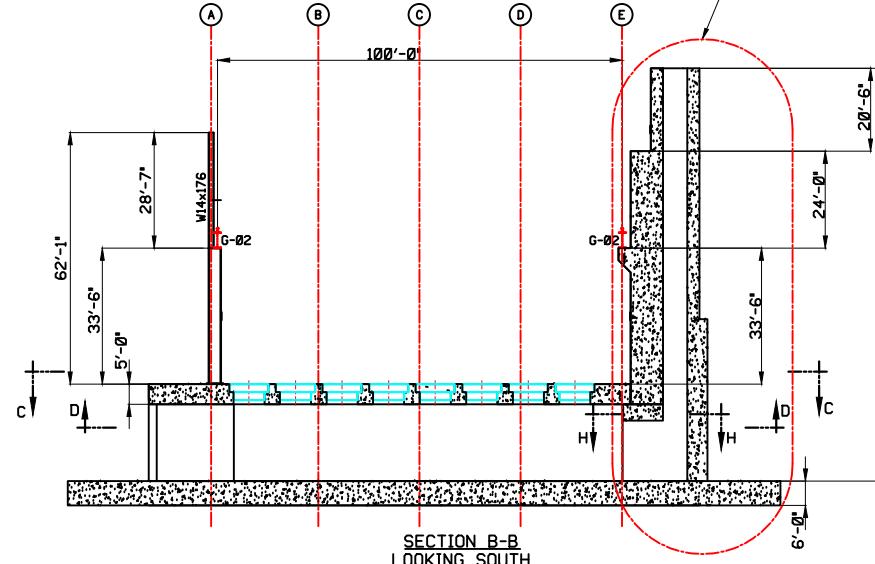
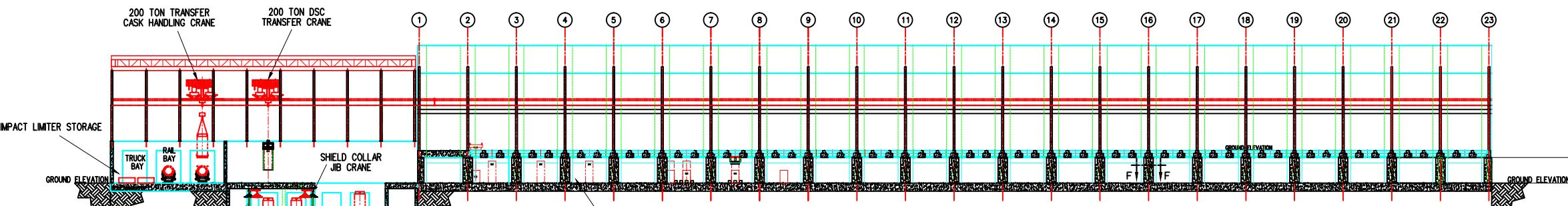
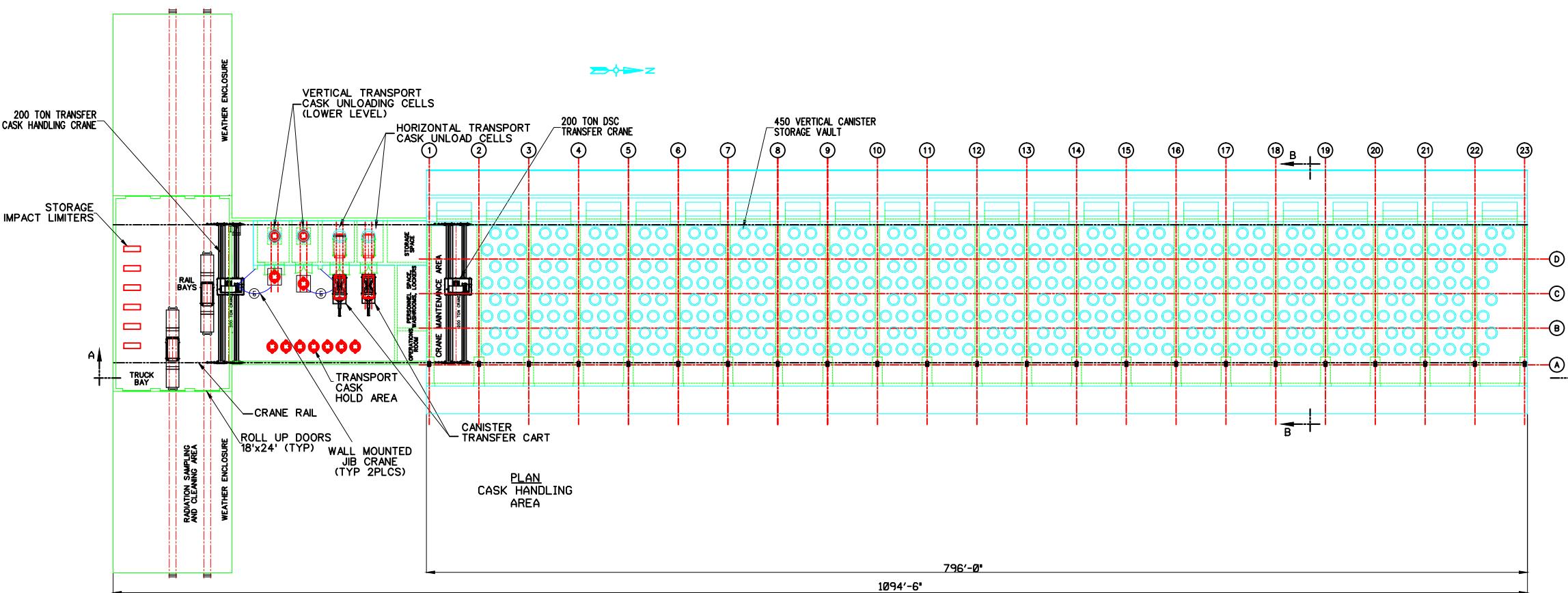
ISOMETRIC VIEW
HORIZONTAL TRANSFER CART



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HORIZONTAL STORAGE AREA ELEVATION

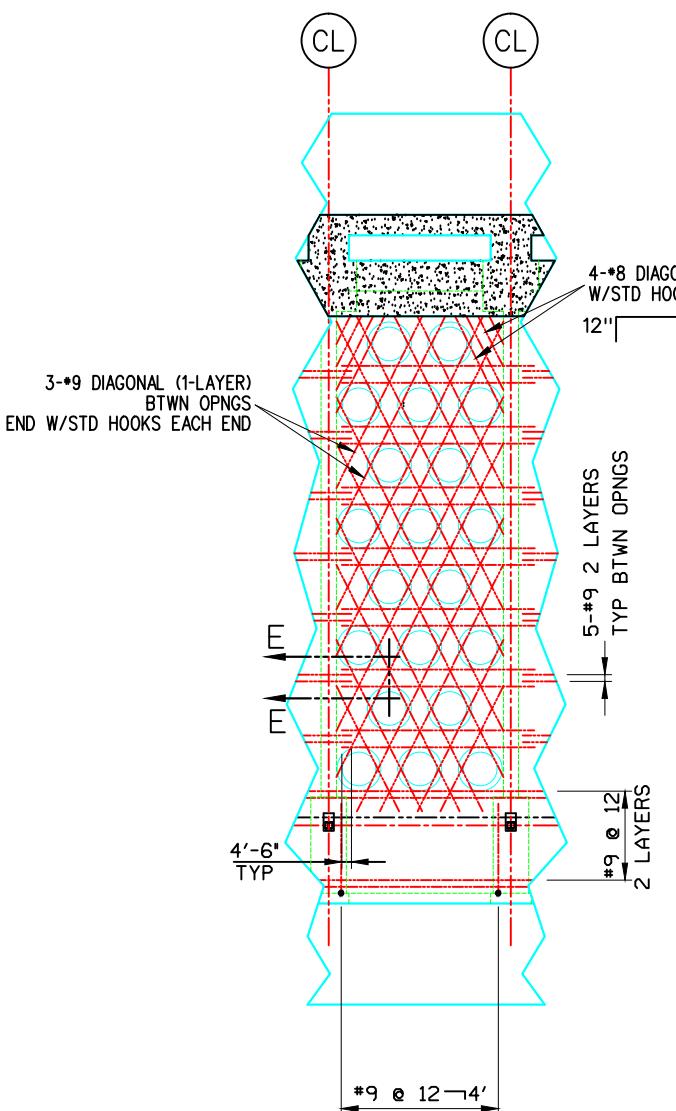
VAULT BUILDING-CAGVA-D, CBGVA-D | T016-S1-CBGV-VB-15



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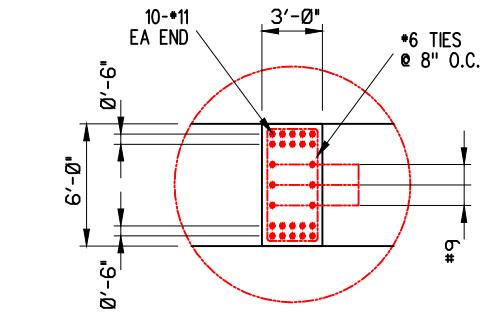
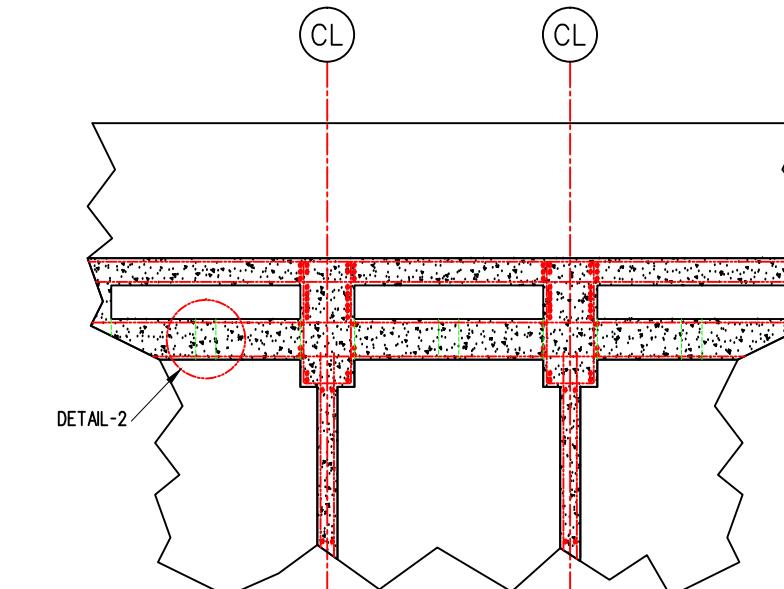
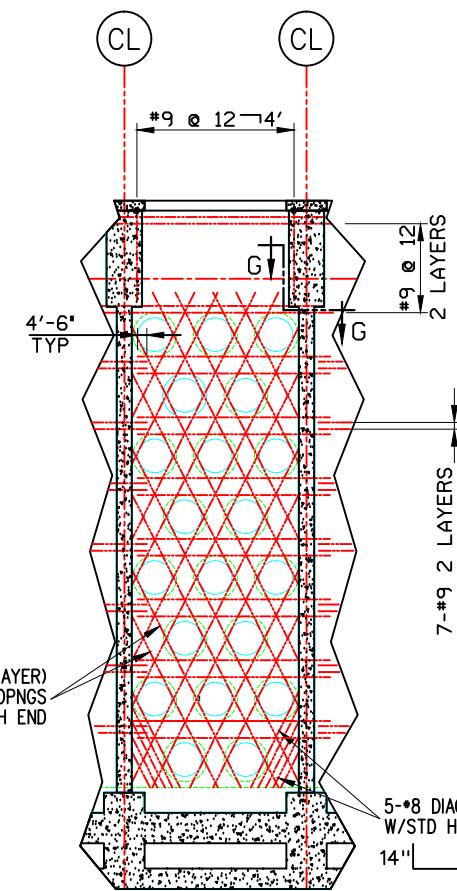
STRUCTURAL STEEL PLANS & ELEVATIONS

VAULT BUILDING-CAGVA-D, CBGVA-D | T016-S1-CAGV-VB-16



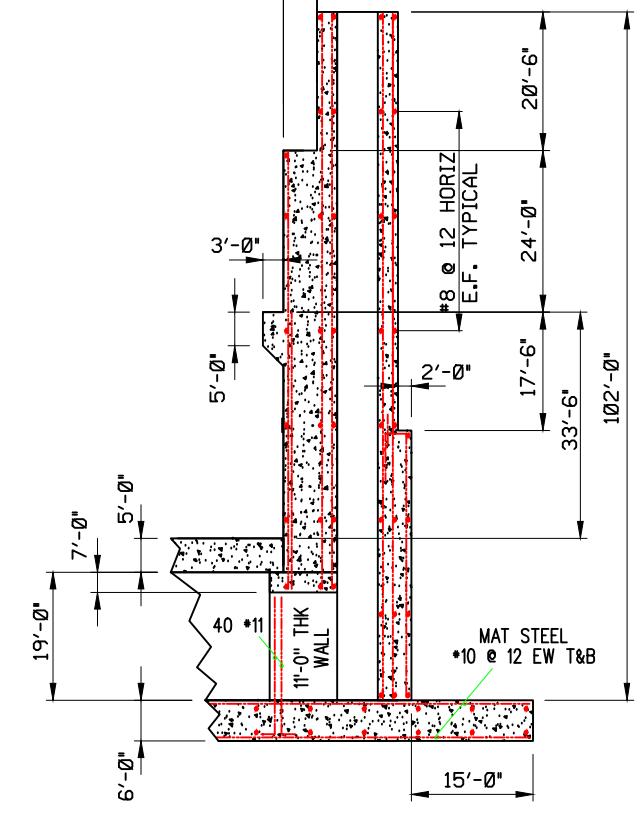
SECTION C-C
TOP FACE REINFORCEMENT

SECTION D-D
BOTTOM FACE REINFORCEMENT

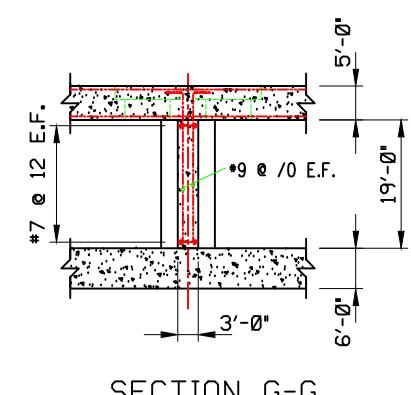
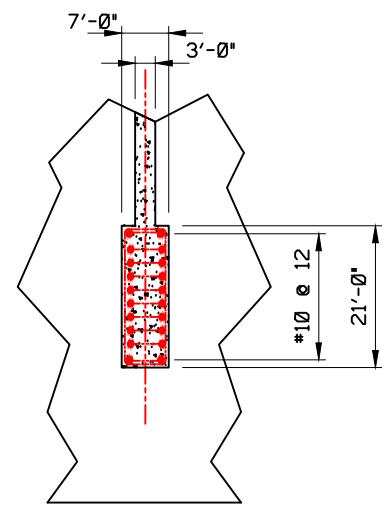


DETAIL-2
TYPICAL

HIGH SEISMIC
LOW SEISMIC
21'-0"
17'-0"
5'-0"
3'-0"
10'-0" HIGH SEISMIC
6'-0" LOW SEISMIC
3'-0"

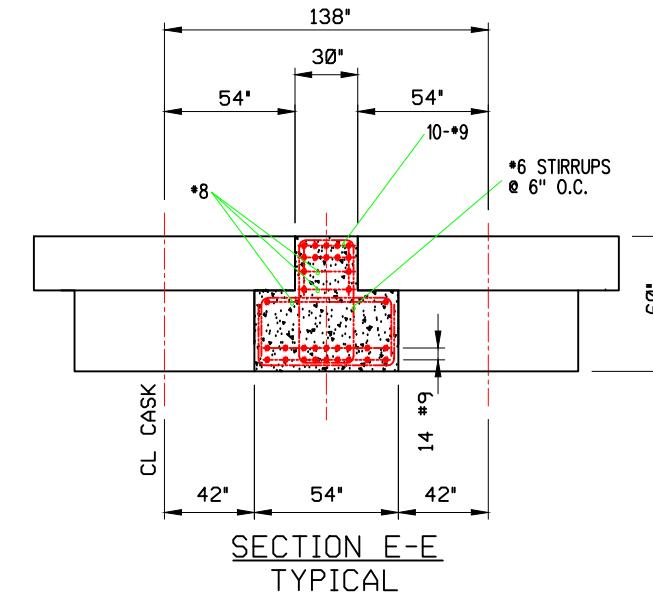


DETAIL-1



SECTION F-F
TYPICAL

SECTION G-G
TYPICAL



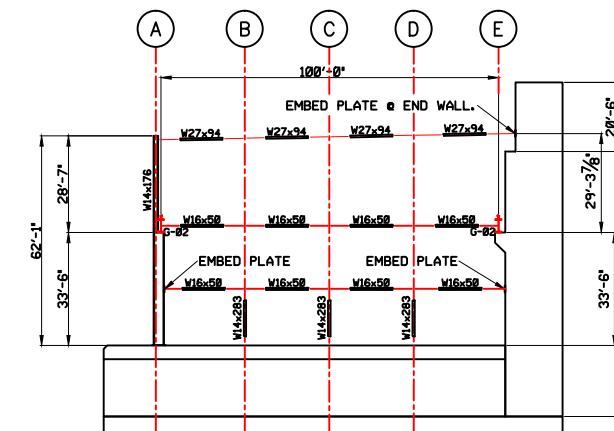
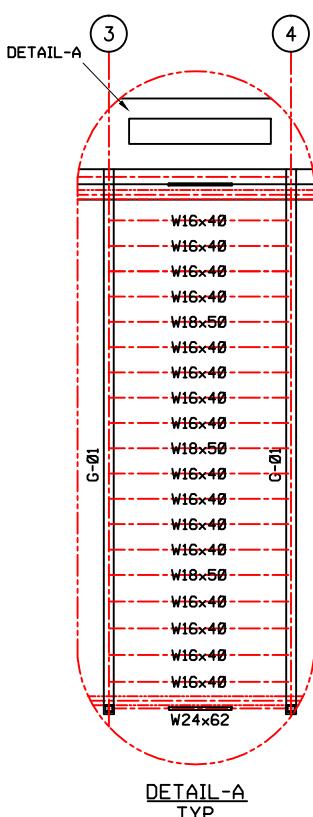
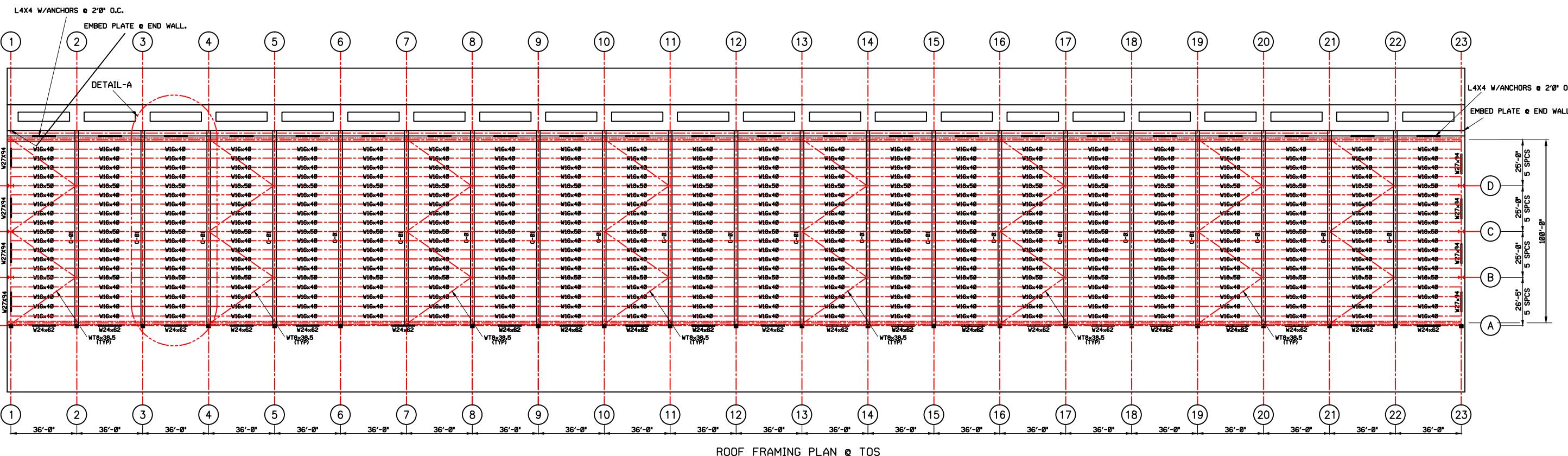
SECTION E-E
TYPICAL



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STRUCTURAL STEEL SECTIONS & DETAILS

VAULT BUILDING-CAGVA-D, CBGVA-D T016-S1-CAGV-VB-17



ELEVATION @ COLUMN LINE 23
LOOKING WEST

ROOF GIRDER:
G-01: $d = 77\frac{1}{8}''$
 $t_w = \frac{1}{2}''$
 $b_f = 23\frac{5}{8}''$
 $t_f = 1\frac{1}{16}''$

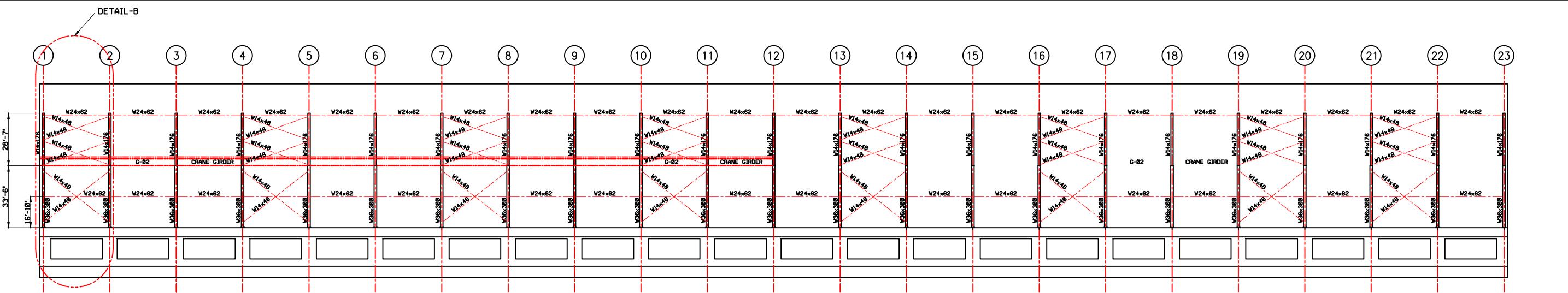
CRANE RAIL GIRDER:
G-02: $d = 48''$
 $t_w = \frac{1}{2}''$
 $b_f = 21\frac{1}{2}''$
 $t_f = 2\frac{1}{2}''$



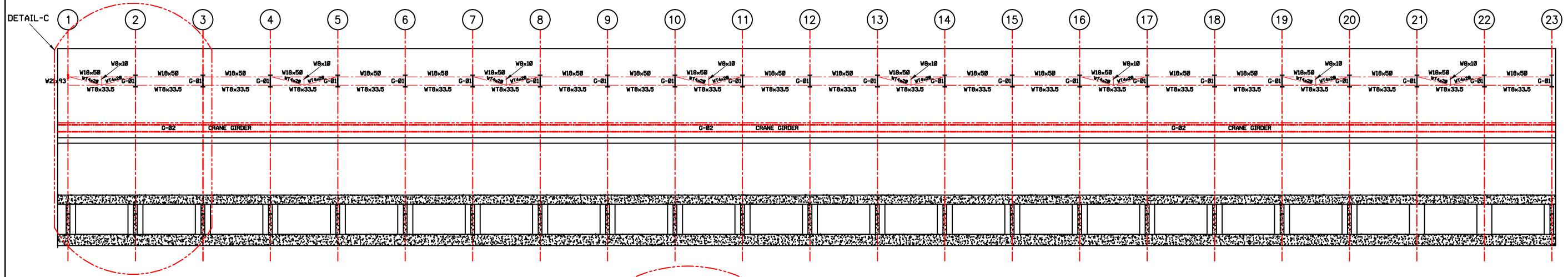
U.S. Department of Energy
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STRUCTURAL STEEL ROOF PLAN

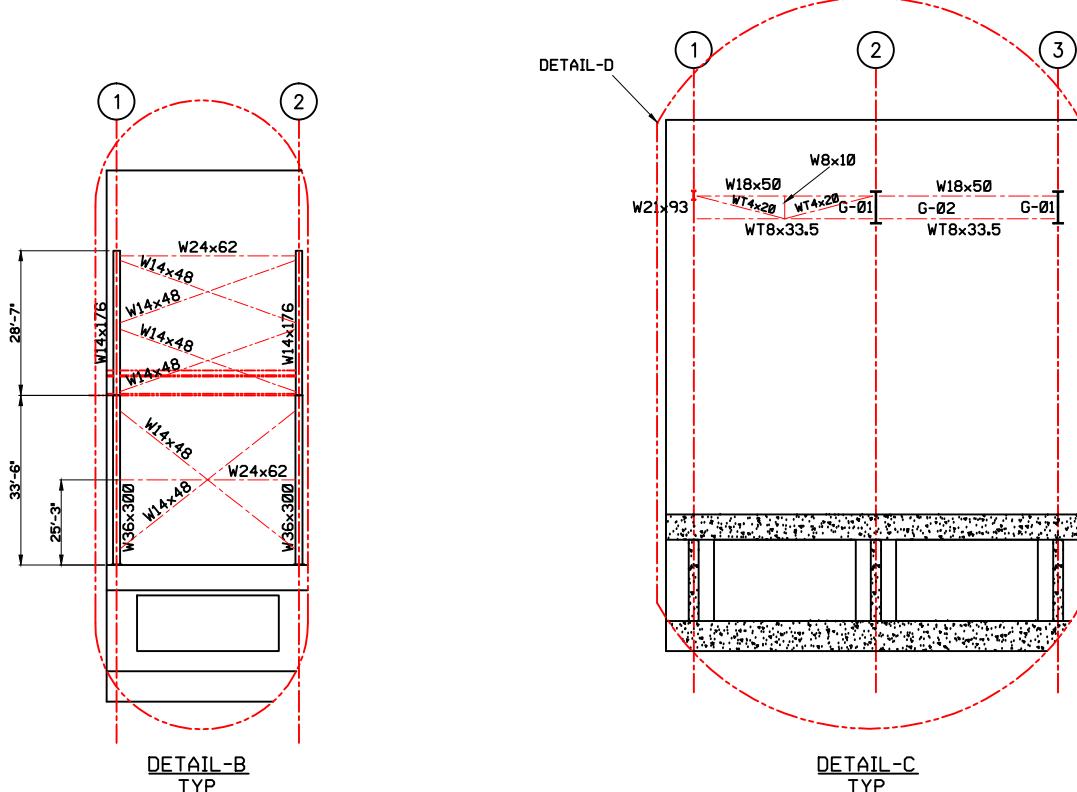
V A U L T B U I L D I N G - C A G V A - D , C B G V A - D T 0 1 6 - S 1 - C A G V - V B - 1 8



ELEVATION @ COLUMN LINE
LOOKING NORTH



ELEVATION @ COLUMN LINE B, C & D
LOOKING NORTH



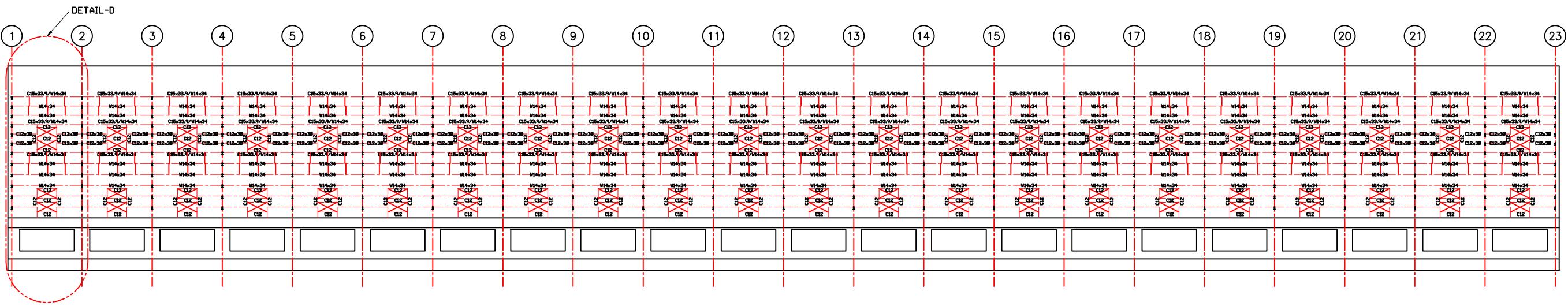
ROOF GIRDER:
 G-01: d = 77 $\frac{1}{8}$ "
 tw = $\frac{1}{2}$ "
 bf = 23 $\frac{5}{8}$ "
 tf = 1 $\frac{1}{8}$ "
CRANE RAIL GIRDER:
 G-02: d = 48"
 tw = $\frac{1}{2}$ "
 bf = 21 $\frac{1}{8}$ "
 tf = 3 $\frac{1}{8}$ "



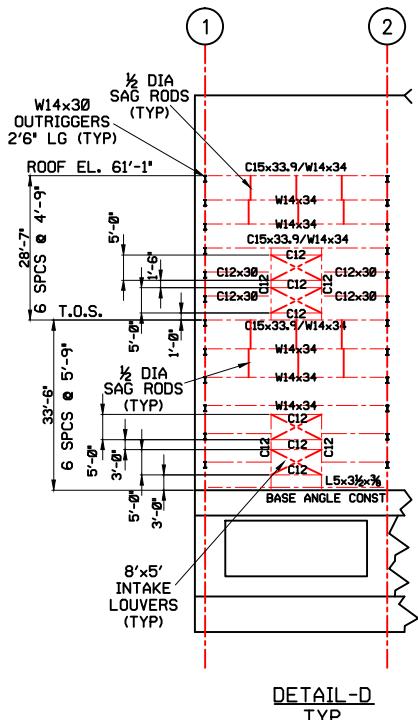
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STRUCTURAL STEEL ELEVATIONS

V A U L T B U I L D I N G - C A G V A - D , C B G V A - D T 0 1 6 - S 1 - C A G V - V B - 1 9



ELEVATION OUTSIDE OF COLUMN LINE A
LOOKING NORTH



DETAIL-D
TYP

ROOF GIRDER:
G-01: d= 77/8"
t_w= 1/2"
b_f= 239/16"
t_f= 13/16"
CRANE RAIL GIRDER:
G-02: d= 48"
t_w= 1/2"
b_f= 211/16"
t_f= 3/2"

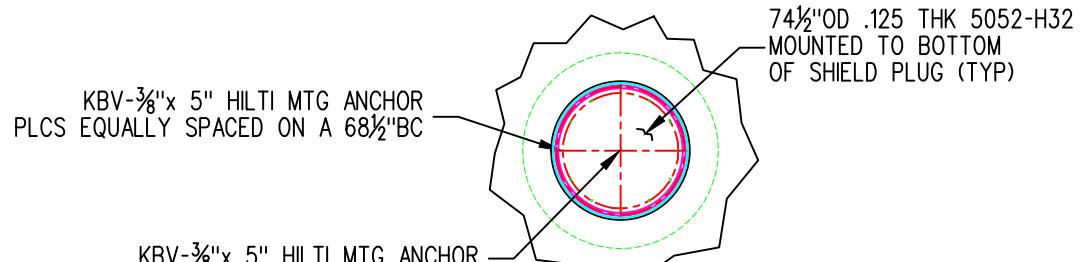


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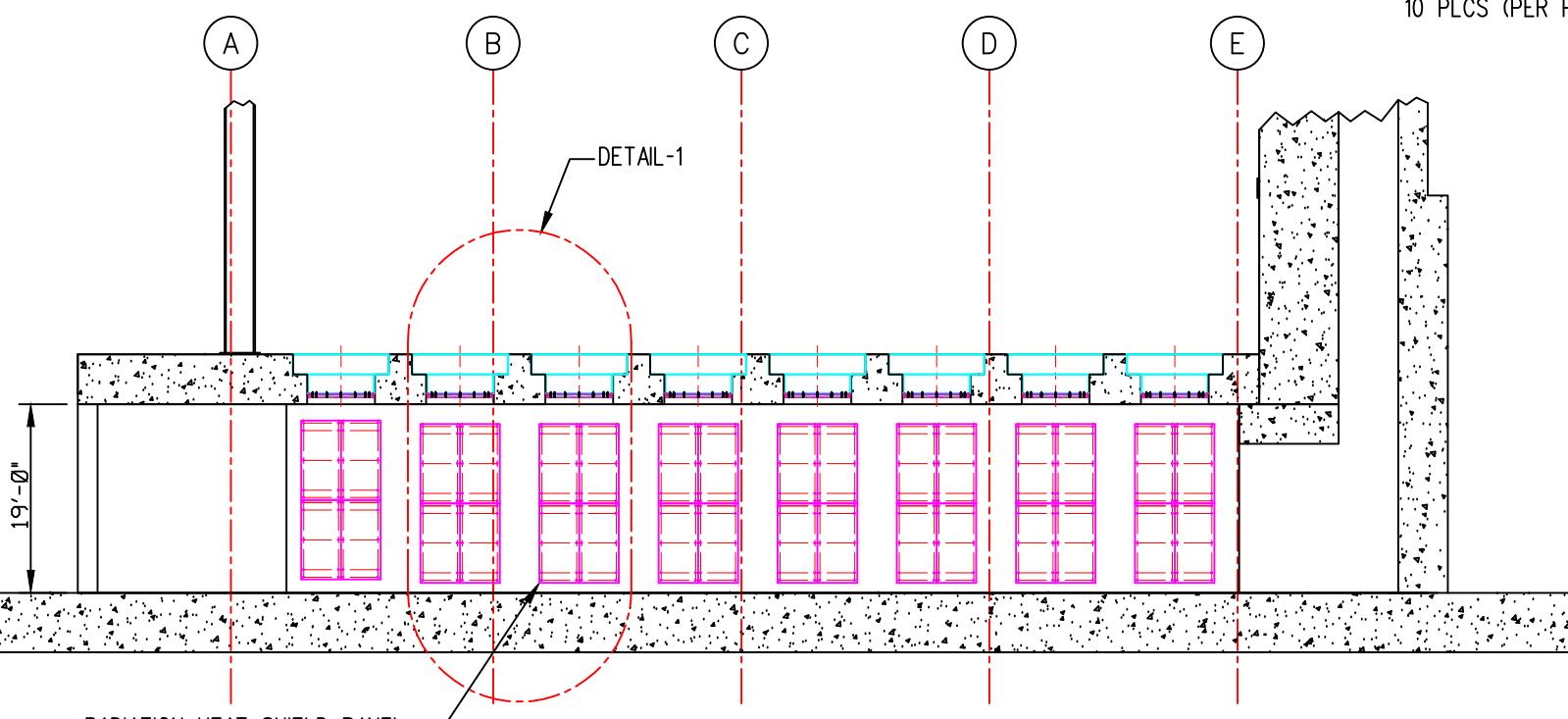
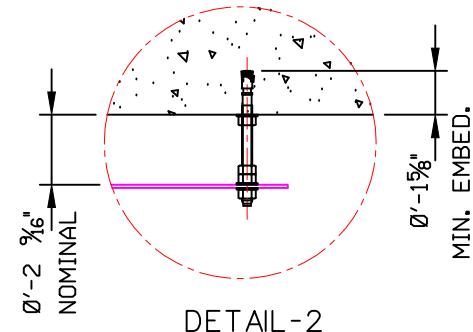
STRUCTURAL STEEL OUTSIDE ELEVATION

VAULT BUILDING-CAGVA-D, CBGVA-D

T016-S1-CAGV-VB-20



SECTION B-B
(TYP EACH SHIELD PLUG)

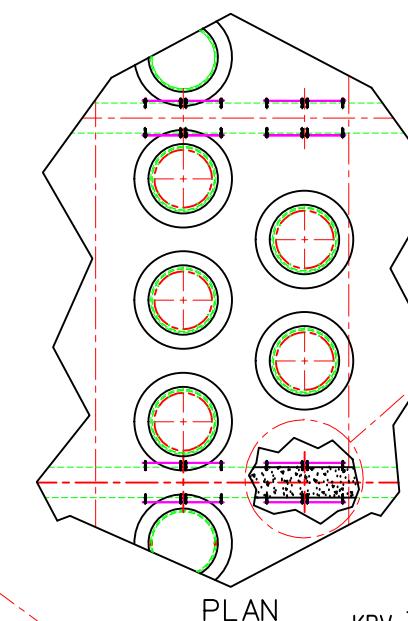


RADIATION HEAT SHIELD PANEL
8 PLCS SOUTH WALL PER BAY
8 PLCS NORTH WALL PER BAY

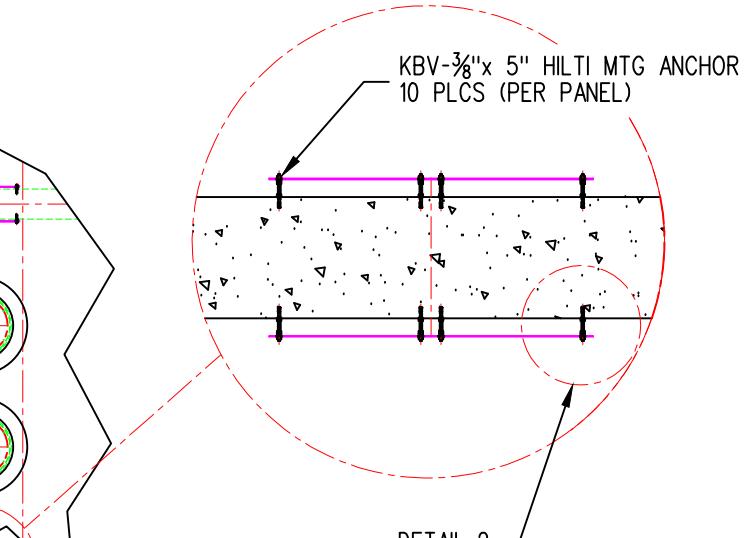
SECTION A-A
LOOKING SOUTH
FROM DWC: T016-S1-CBGV-VB-2

C4x7.25x 74 1/2" DIA ID
(HEAT SHIELD MTG RING)
KBV-3/8" x 5" HILTI MTG ANCHOR
12 PLCS EQUALLY SPACED
TYP EACH PLUG

B ↑
C4x7.25 ↑
B ↓



PLAN



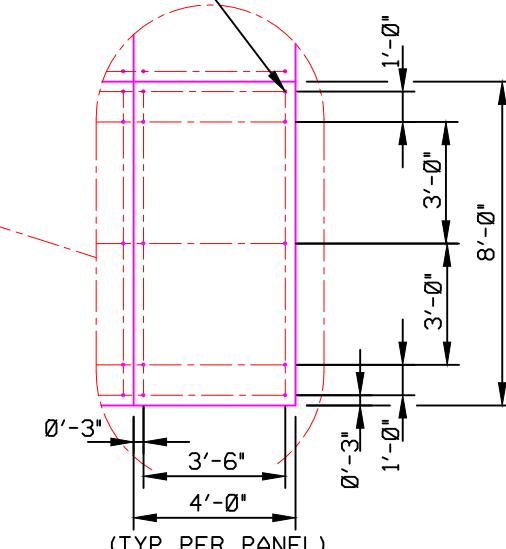
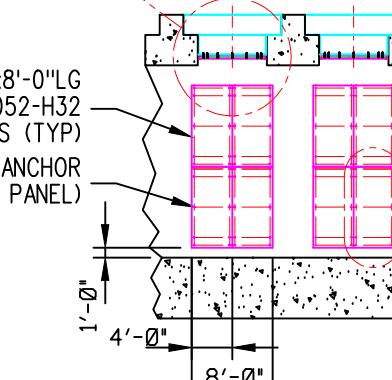
DETAIL-2

4'-0"Wx8'-0"LG
.125 THK 5052-H32
4 PLCS (TYP)

KBV-3/8" x 5" HILTI MTG ANCHOR
10 PLCS (PER PANEL)

ELEVATION
(ALUMINUM HEAT SHIELD)

DETAIL-1



(TYP PER PANEL)



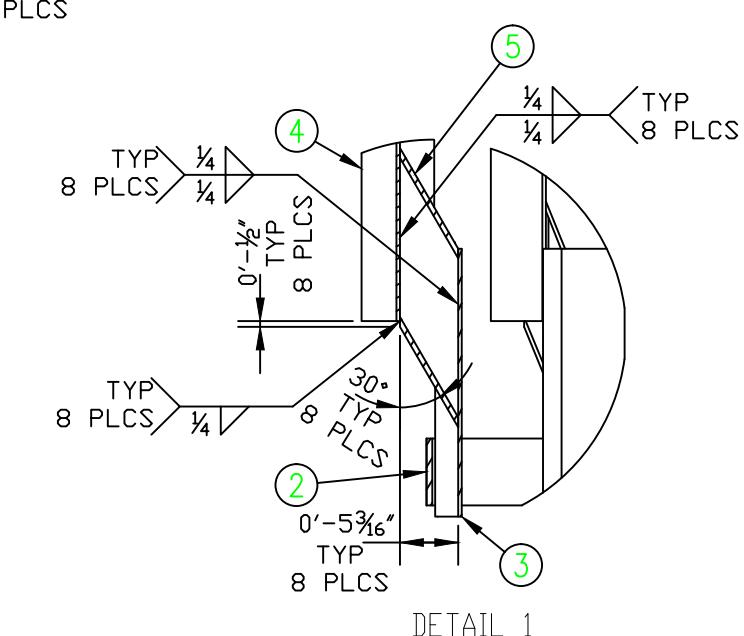
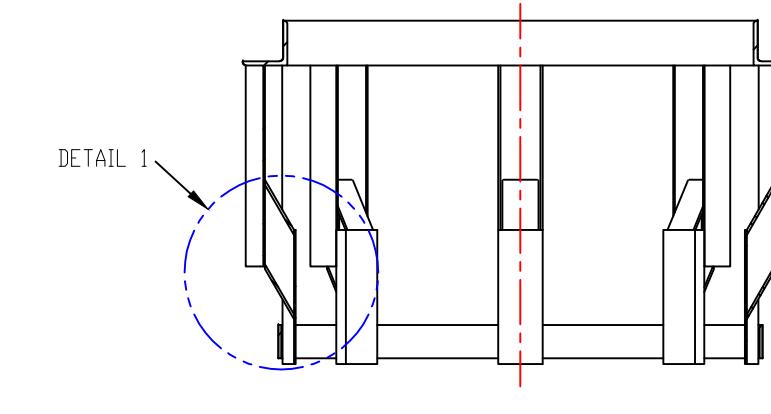
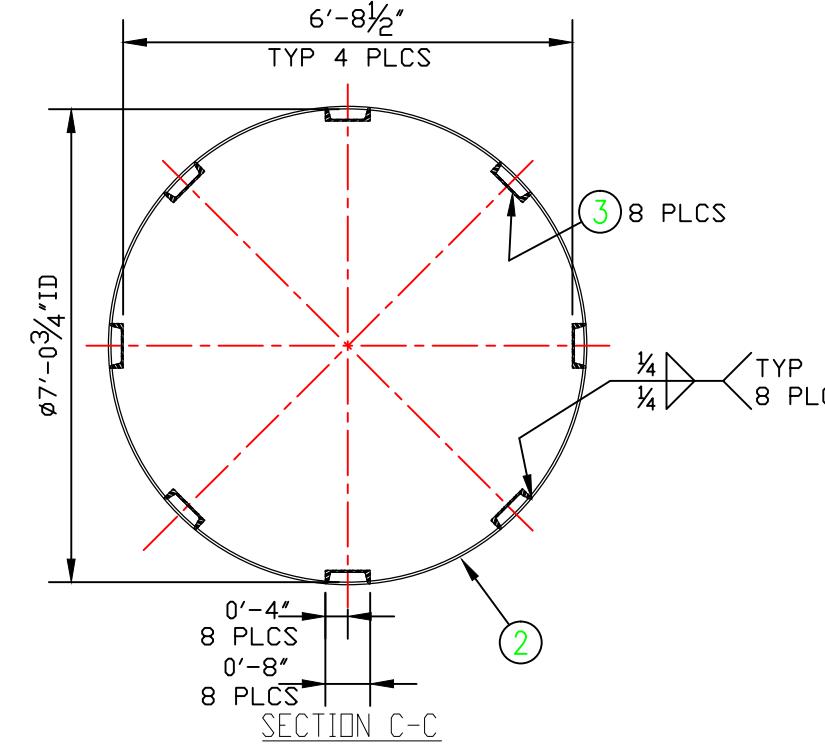
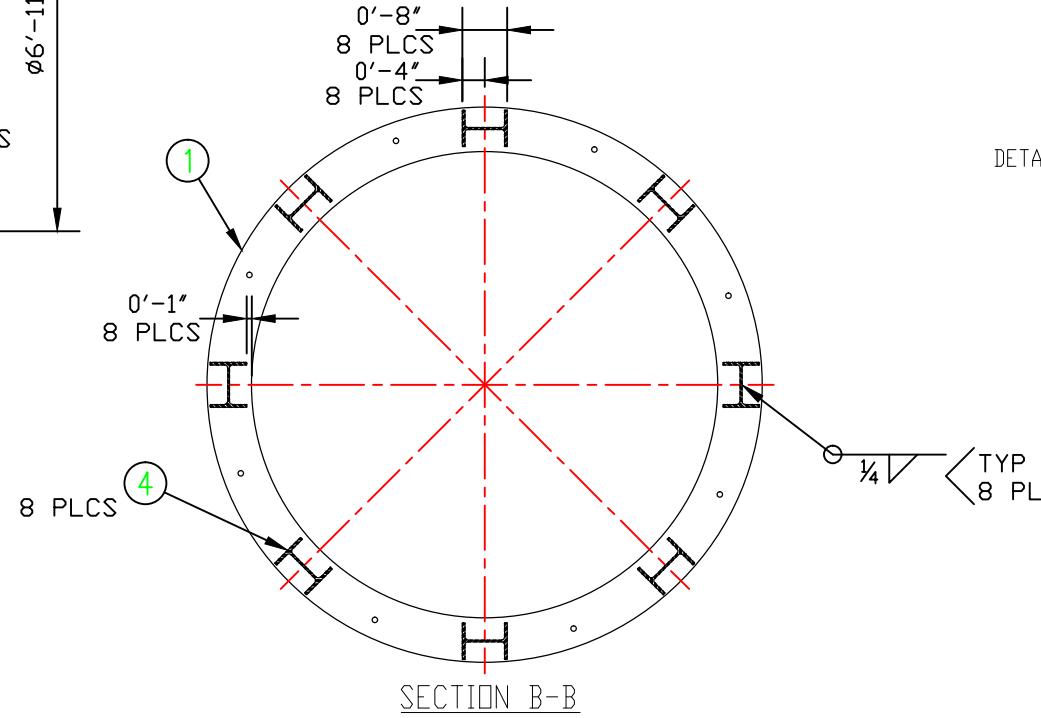
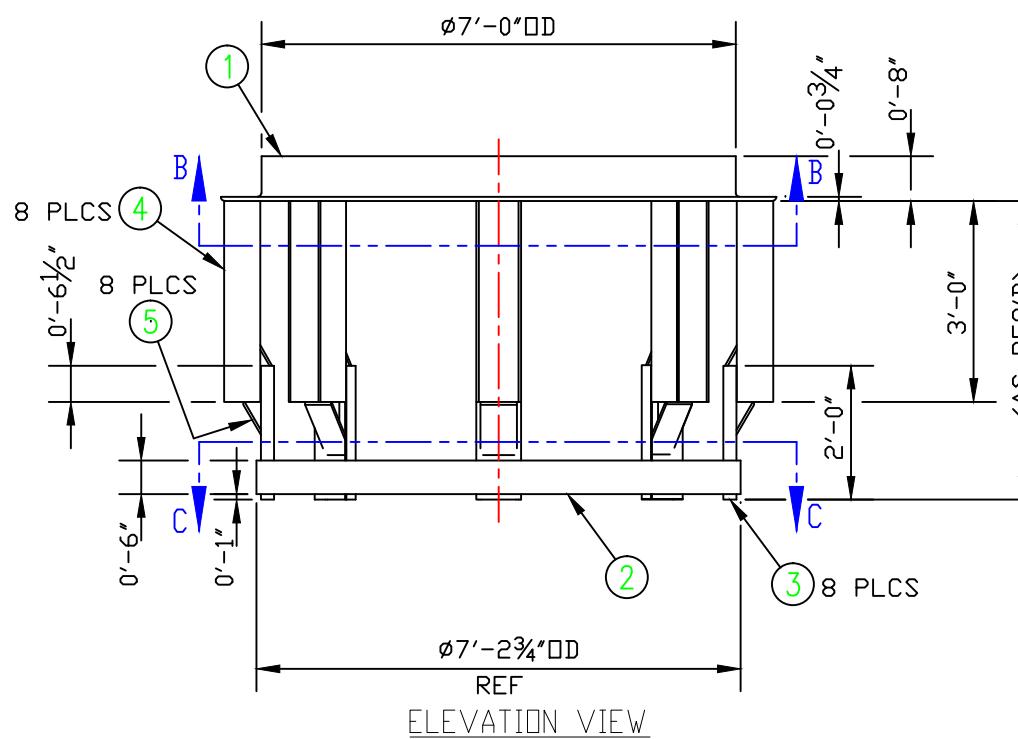
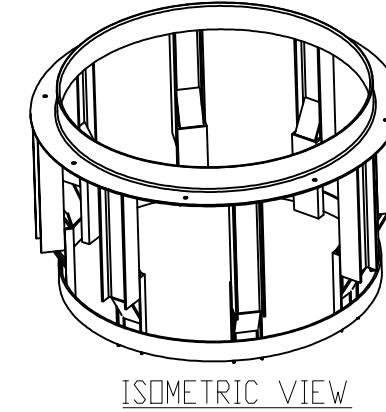
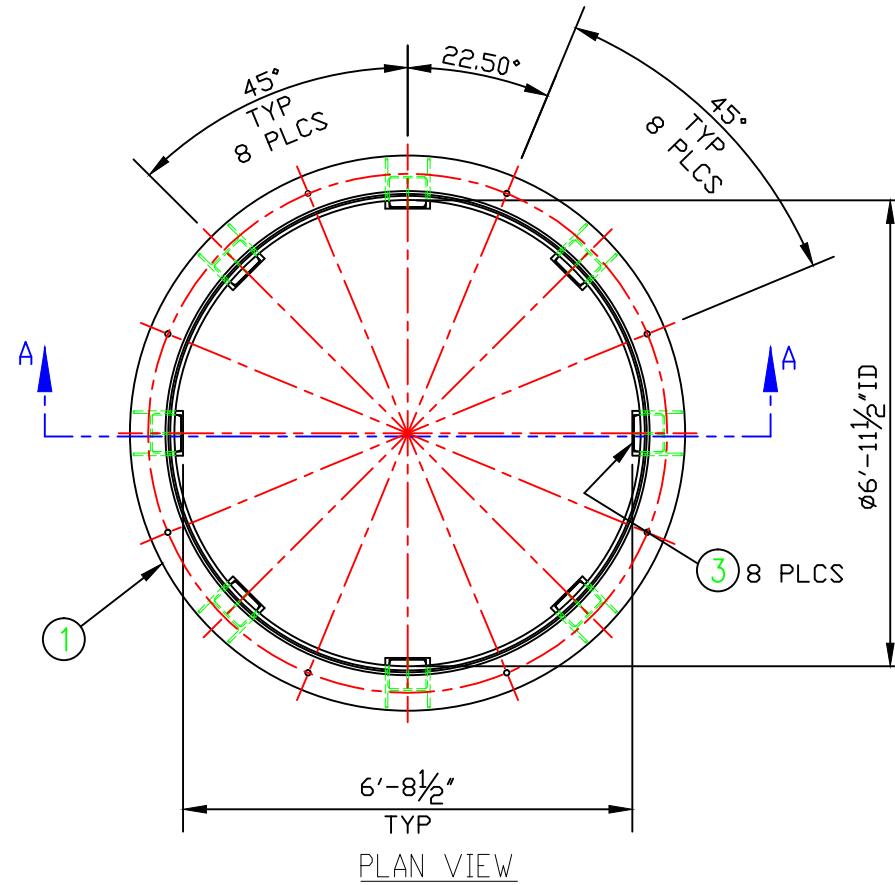
U.S. Department of Energy
Task Order #16
Development of Consolidated
Storage Facility Design Concepts

RADIATION HEAT SHIELDING SECTIONS & DETAILS

Vault Building-CAGVA-D, CBGVA-D | T016-S1-CBGV-VB-21

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL/MANUFACTURE	REMARKS
1	1	TOP MOUNTING ANGLE	ANGLE: L8x8x $\frac{3}{4}$ ", ASTM A 36	
2	1	BOTTOM SUPPORT RING	PLATE: 6"x $\frac{1}{2}$ " THK, ASTM A 36	
3	8	VERTICAL GUIDE CHANNEL	CHANNEL: C8x13.75x2'-0"LG ASTM A 36	
4	8	VERTICAL SUPPORT FLANGE	WIDE FLANGE: W8x28x3'-0"LG ASTM A 36	
5	8	ANGLE SUPPORT FLANGE	WIDE FLANGE: W8x28x2'- $\frac{1}{4}$ "LG ASTM A 36	



U.S. Department of Energy
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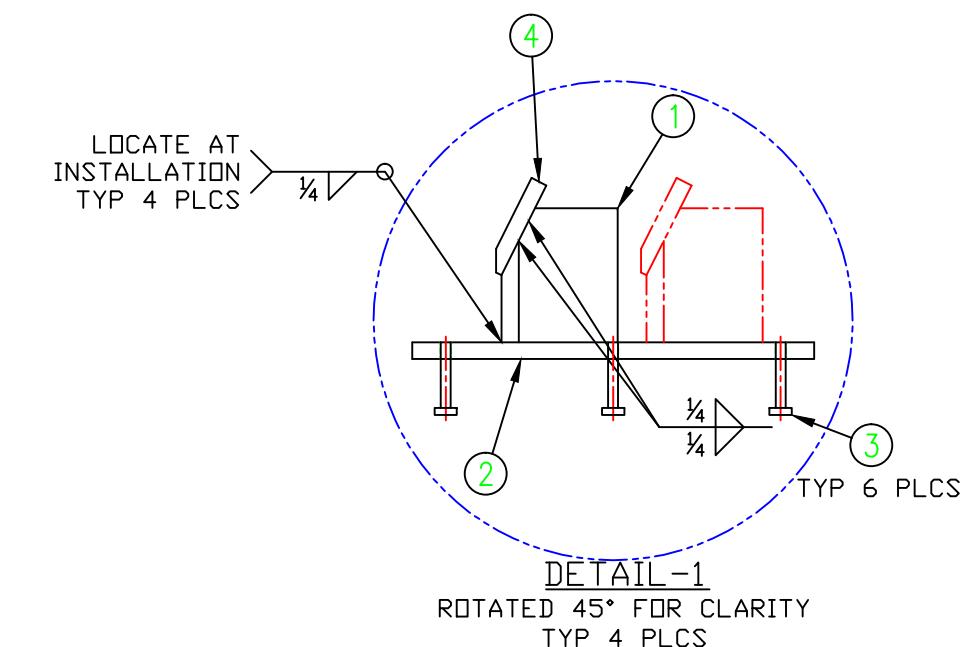
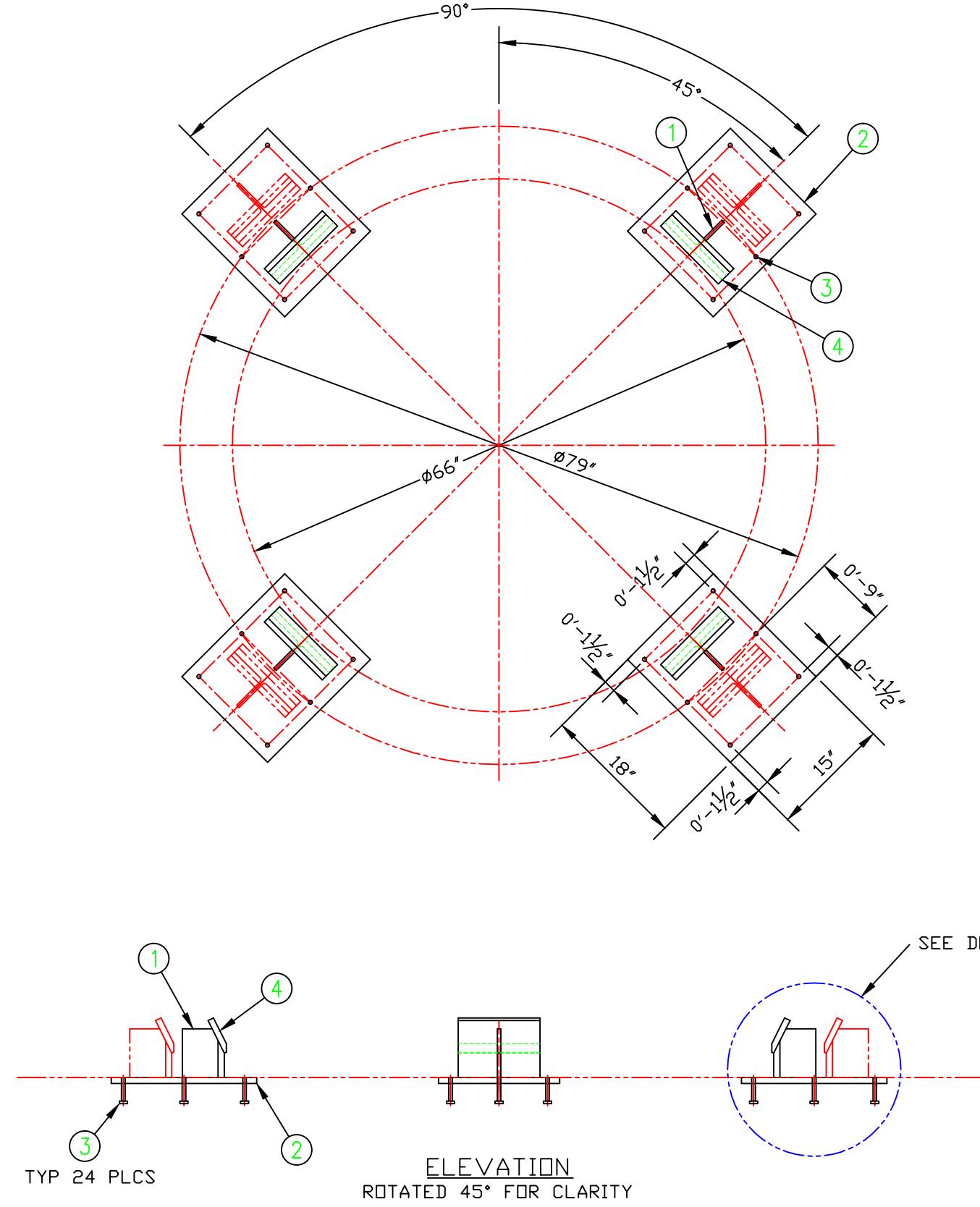
DSC SEISMIC RESTRAINTS-UPPER

VAULT BUILDING-CAGVA-D, CBGVA-D

T016-S1-CBGV-VB-22

BILL OF MATERIAL

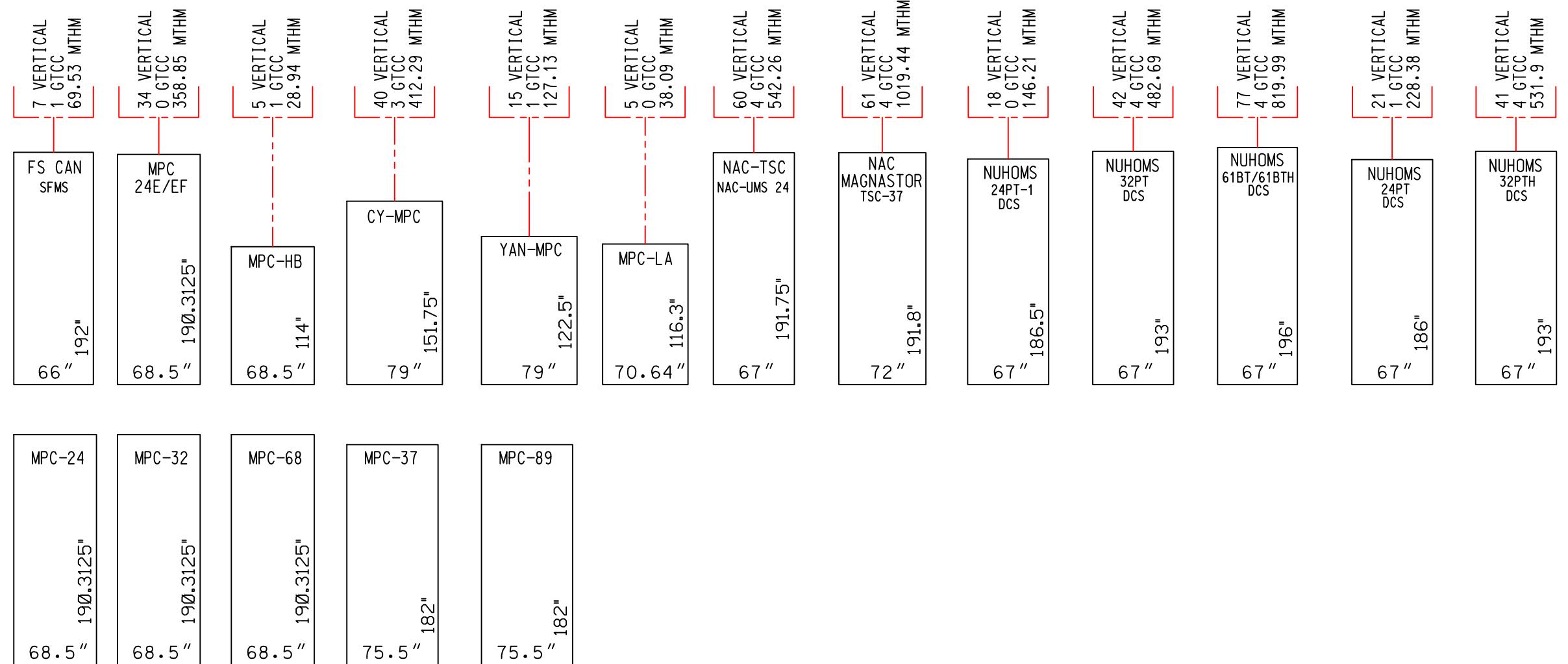
ITEM	QTY	DESCRIPTION	MATERIAL/MANUFACTURE	REMARKS
1	4	VERTICAL MOUNTING TEE	TEE: WT5x34, ASTM A 36	
2	4	BASE PLATE	PLATE: 18"x15"x $\frac{3}{4}$ " THK, ASTM A 36	
3	24	MOUNTING STUDS	H4L $\frac{1}{2}$ "DIAx4 $\frac{1}{8}$ "LG	
4	4	GUIDE PLATE	PLATE: 5"x4 $\frac{1}{2}$ "x $\frac{3}{4}$ " THK, ASTM A 36	



U.S. Department of Energy
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Storage Facility Design Concepts

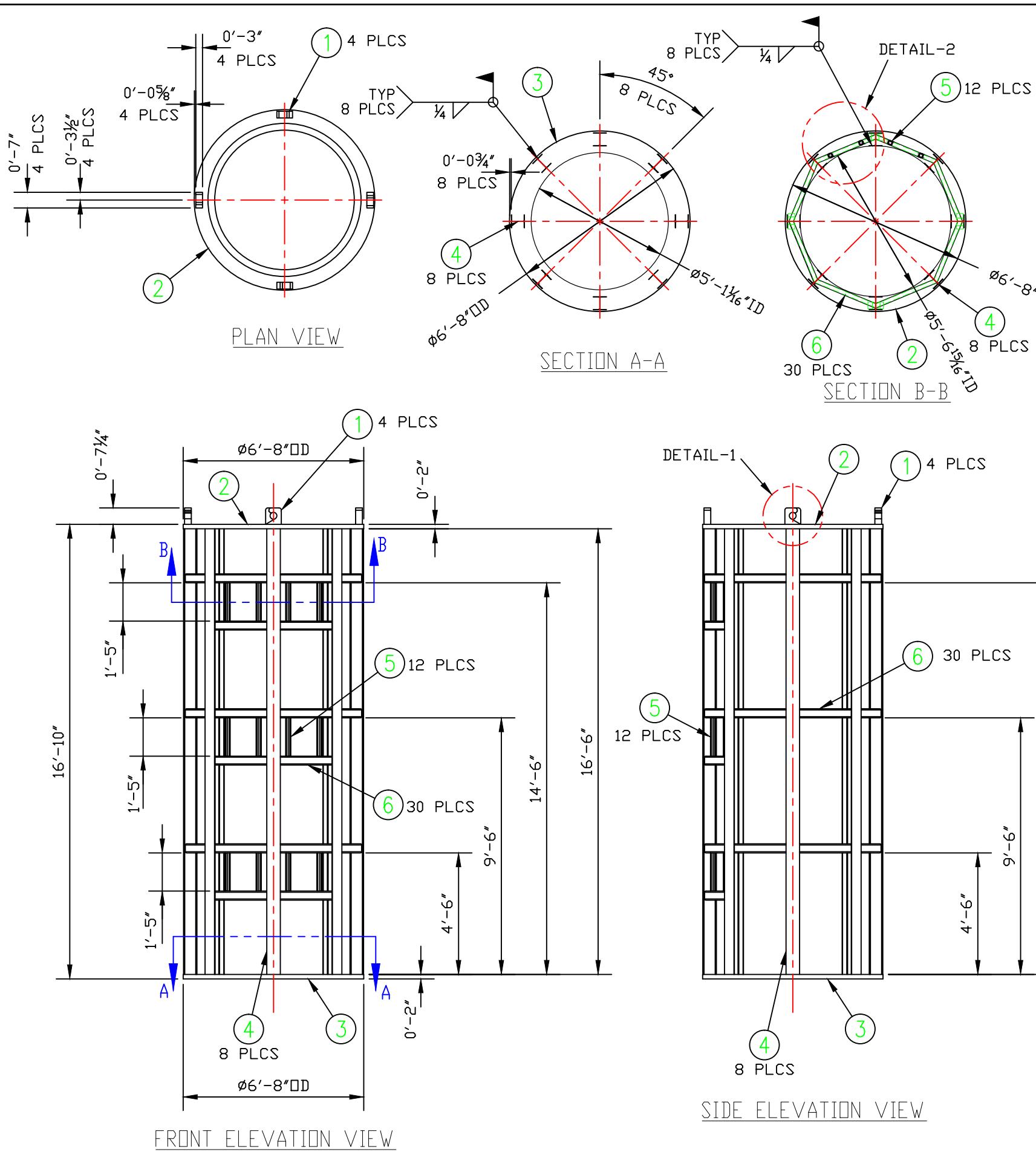
DSC SEISMIC RESTRAINTS-LOWER

VAULT BUILDING-CAGVA-D, CBGVA-D | T016-S1-CBGV-VB-23

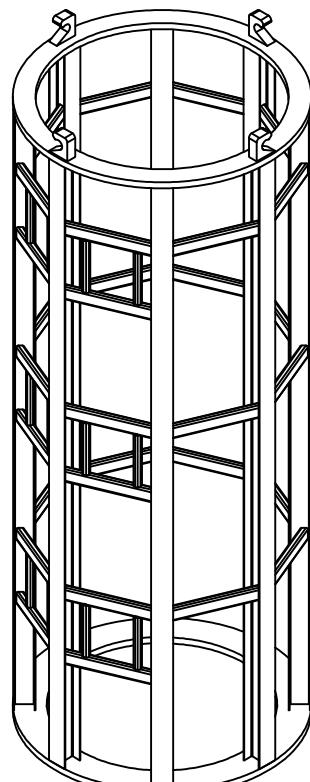
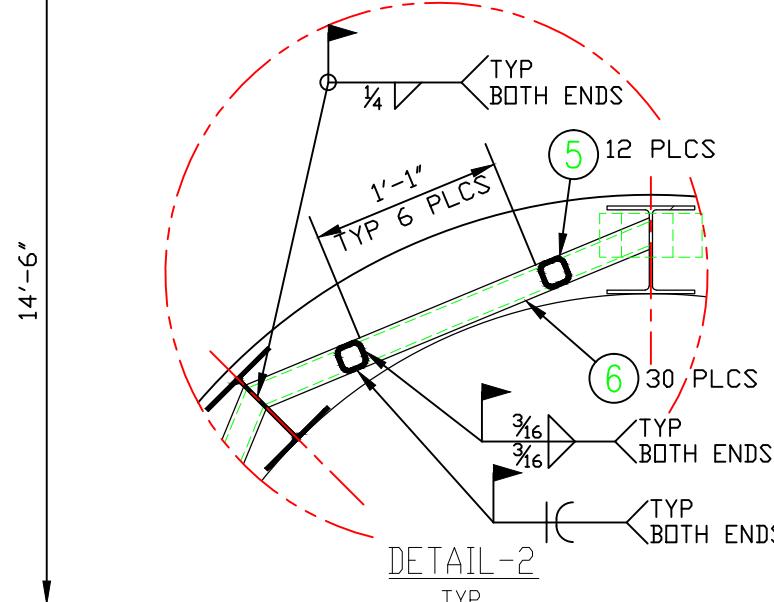
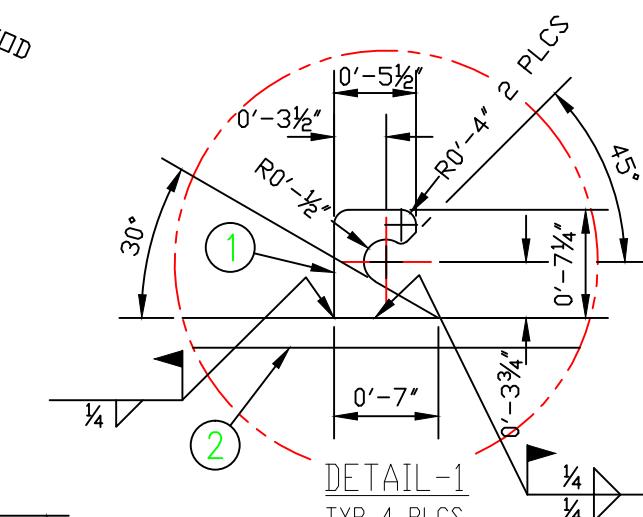


U.S. Department of Energy
Task Order #16
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DRY STORAGE CANISTERS-PILOT & EXPANSION ISF	ISF CONTAINERS	T016-S1-CPAD-CON-1
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BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MATERIAL/MANUFACTURE	REMARKS
PLCS	1	LIFT HOOK	BAR: 7"x3" THK, ASTM A 36	
	2	TOP SUPPORT RING	PLATE: Ø6'-8"x2" THK, ASTM A 36	
	3	BOTTOM SUPPORT RING	PLATE: Ø6'-8"x2" THK, ASTM A 36	
	4	VERTICAL SUPPORT COLUMN	WIDE FLANGE: W6x15x6'-6"LG ASTM A 36	
	5	VERTICAL SUPPORT BAR	SQ TUBING: 4"x4"x $\frac{1}{2}$ "THK x1"-5"LG ASTM A 500	
	6	HORIZONTAL CROSS BAR	SQ TUBING: 4"x4"x $\frac{1}{2}$ "THK x2"-5 $\frac{3}{4}$ "LG ASTM A 500	



ISOMETRIC VIEW

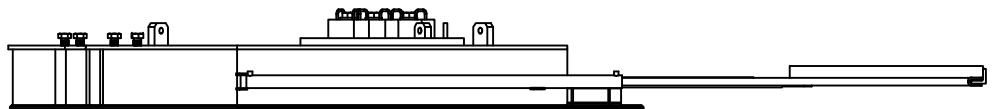
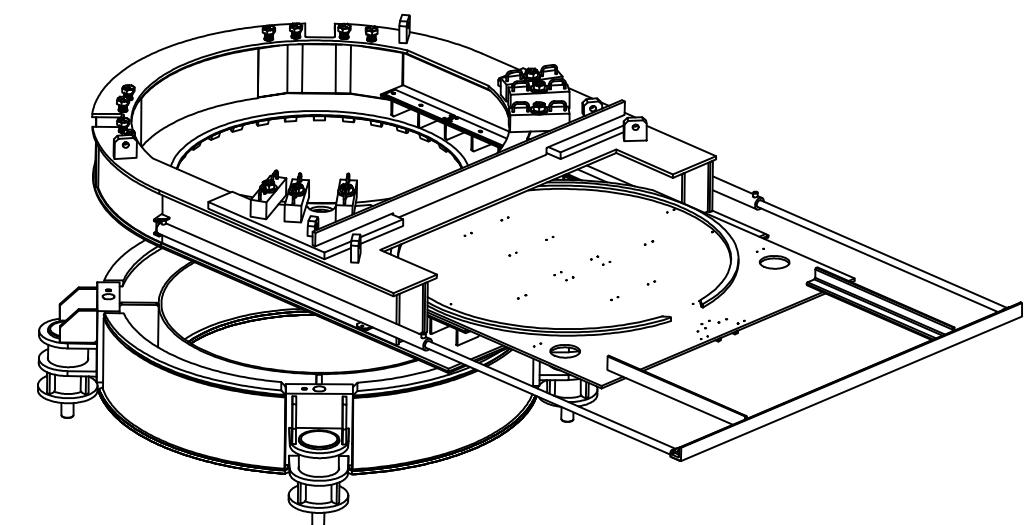
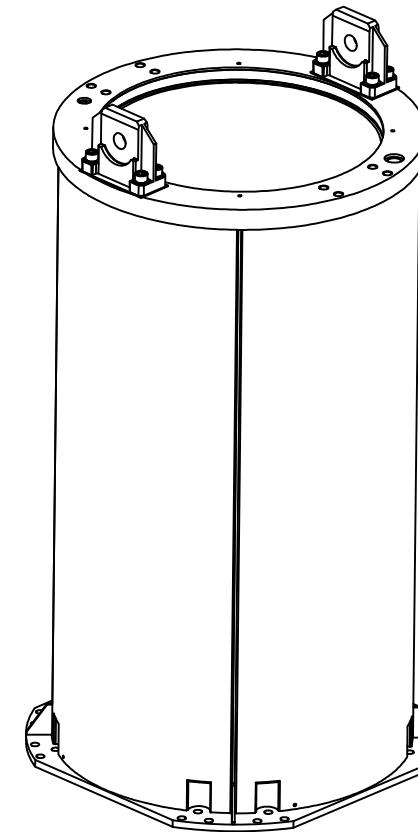
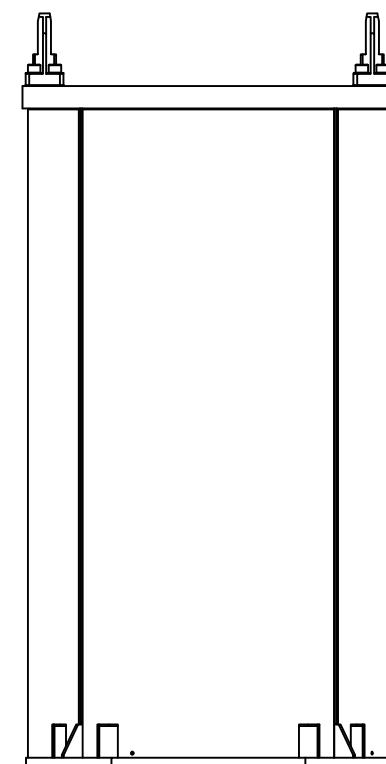
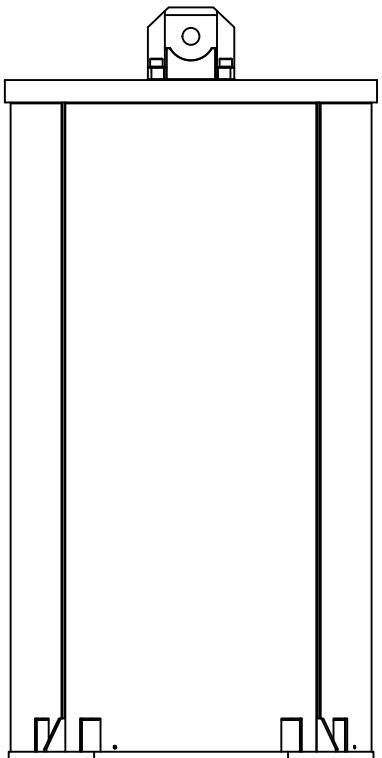
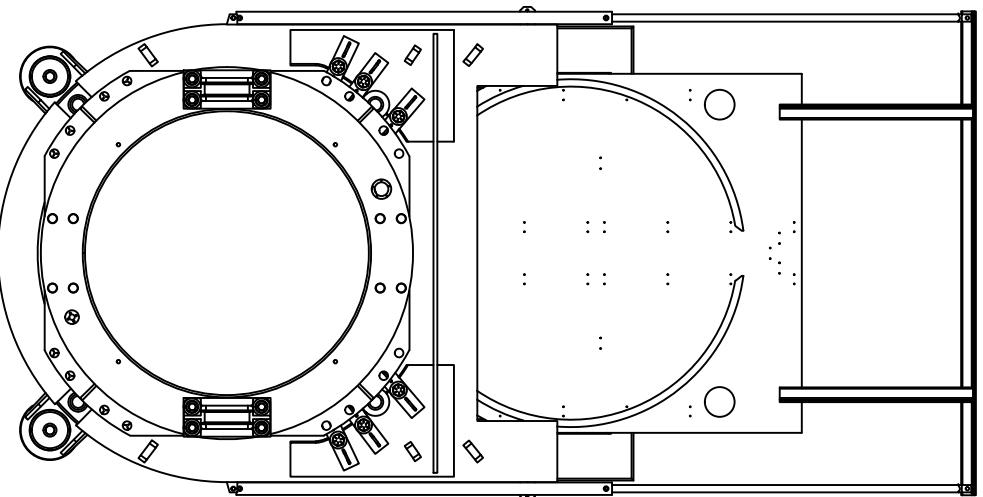


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Task Order #16
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Storage Facility Design Concepts

HORIZONTAL DSC LIFT FRAME

ISF CONTAINERS

T016-S1-CPAD-CON-2

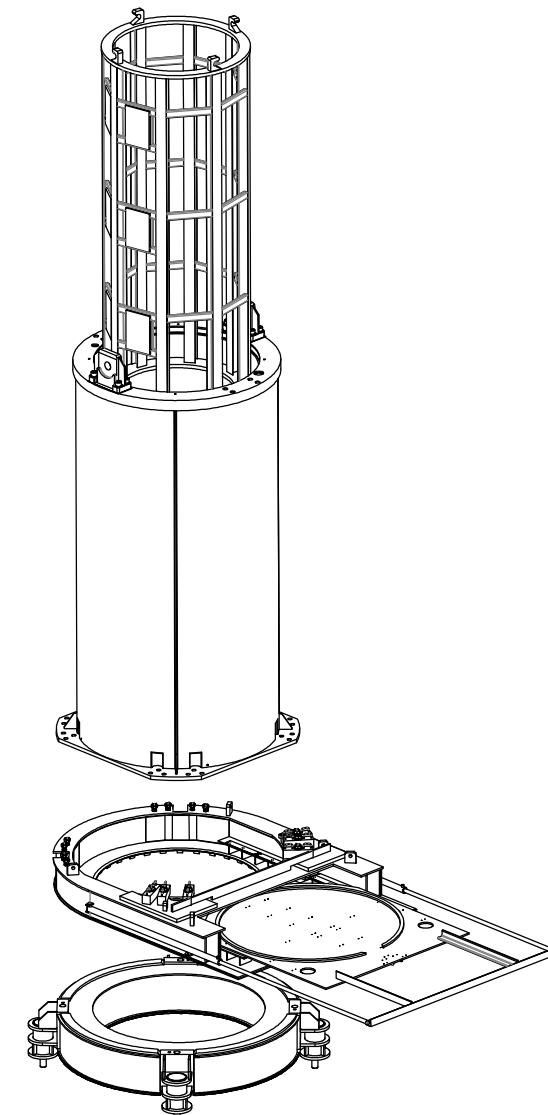
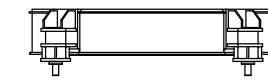
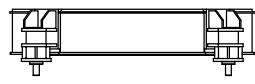
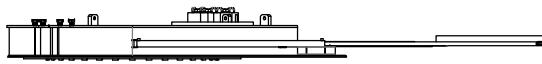
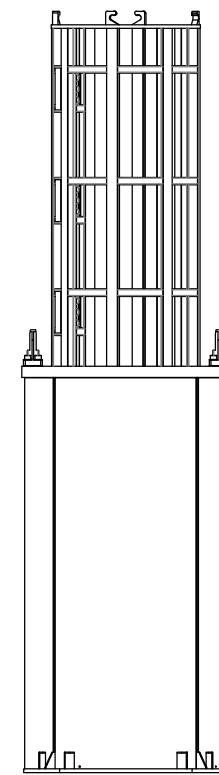
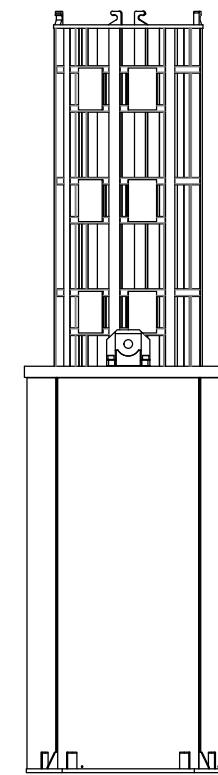
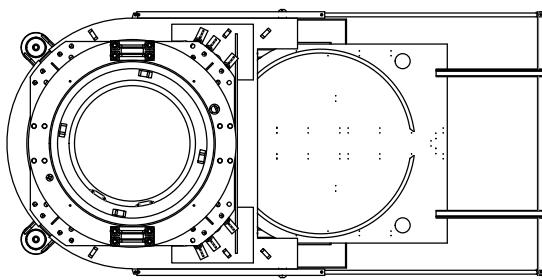


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Task Order #16
Development of Consolidated
Storage Facility Design Concepts

VERTICAL TRANSFER CASK-MATING DEVICE ADAPTER ASS'Y

ISF CONTAINERS

TO-S1-CPAD-CON-3

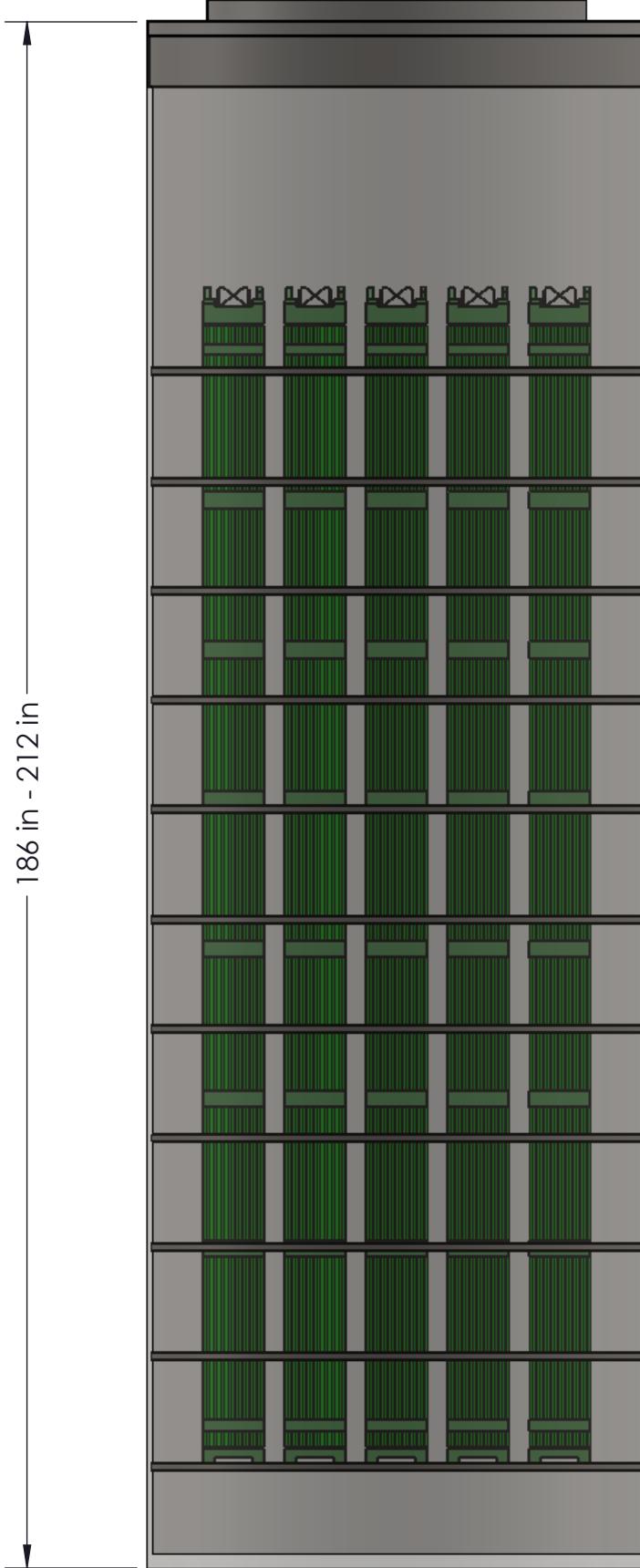


U.S. Department of Energy
Task Order #16
Development of Consolidated
Storage Facility Design Concepts

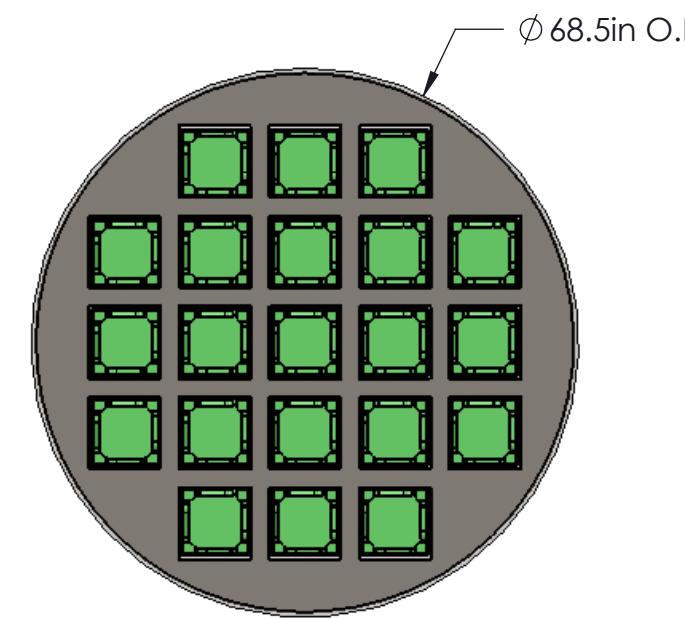
HORIZONTAL TRANSFER CASK-MATING DEVICE ADAPTER ASS'Y

ISF CONTAINERS

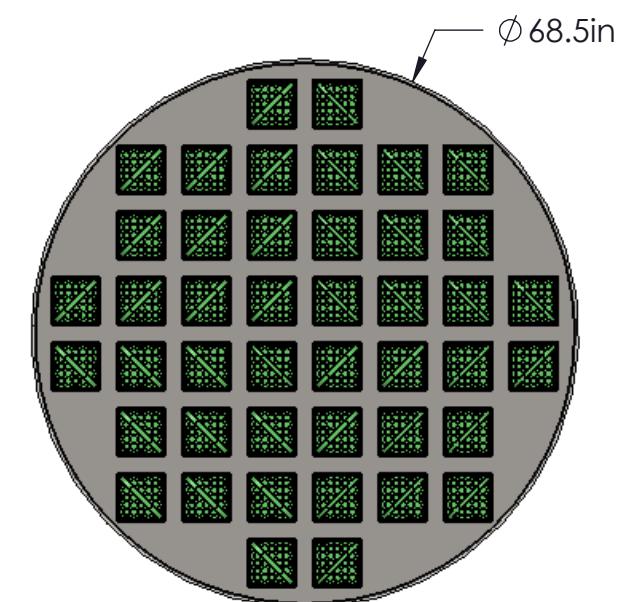
TO-S1-CPAD-CON-4



Large STAD Canister



Large STAD Canister
21 PWR



Large STAD Canister
44 BWR



Large STAD Canister
21 PWR



Large STAD Canister
44 BWR

MAX. WEIGHT W/FUEL = 108,500 LBS.

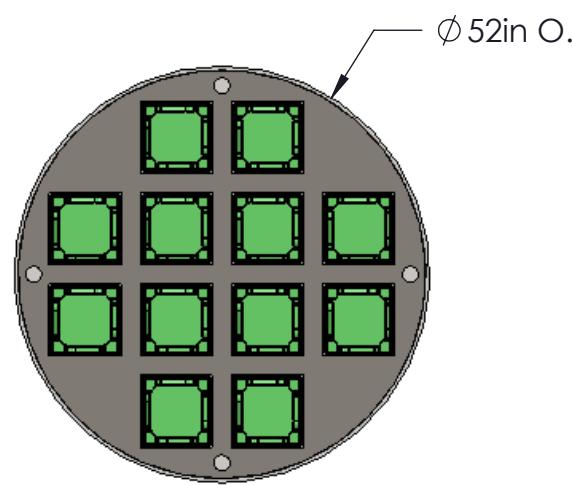
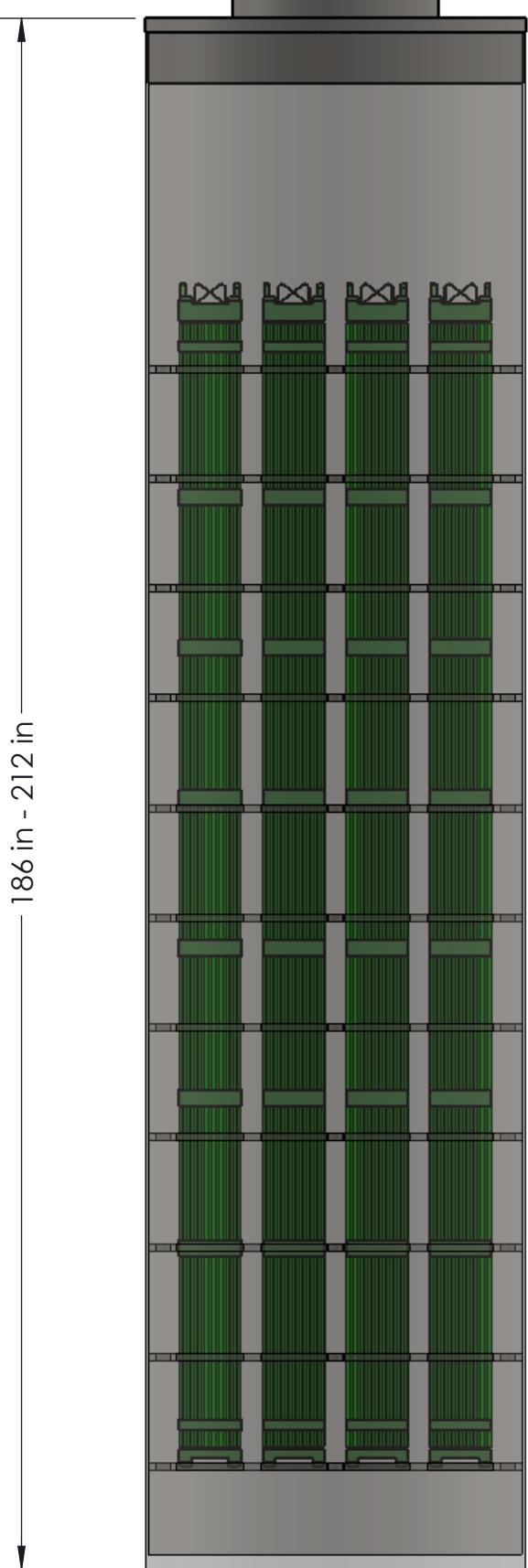


U.S. Department of Energy
Task Order #16
Development of Consolidated
Storage Facility Design Concepts

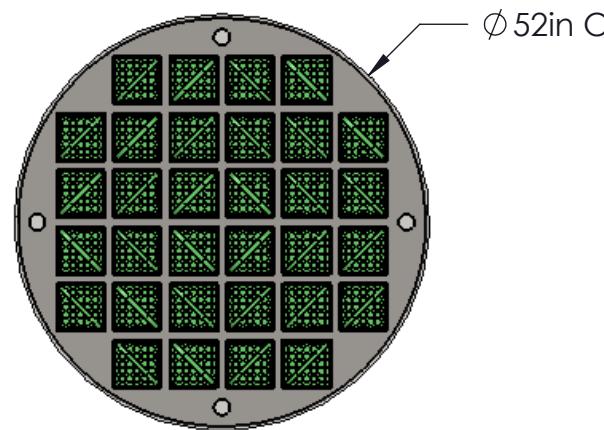
LARGE STAD CANISTER

ISF CONTAINERS

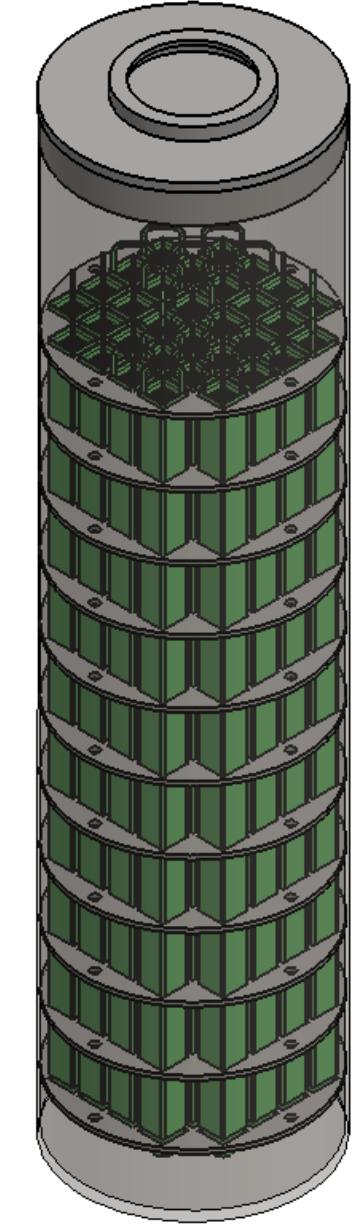
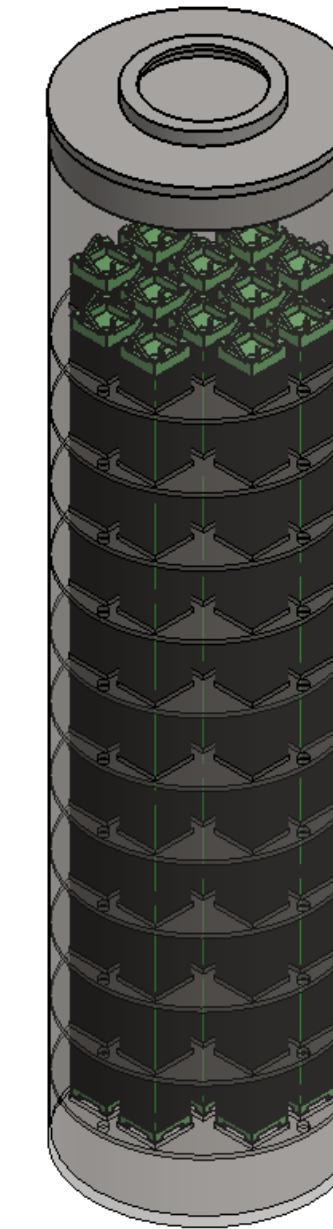
TO16-S1-CPAD-CON-5



Medium STAD Canister
12 PWR



Medium STAD Canister
32 BWR



Medium STAD Canister

MAX. WEIGHT W/FUEL = 50,000 LBS.



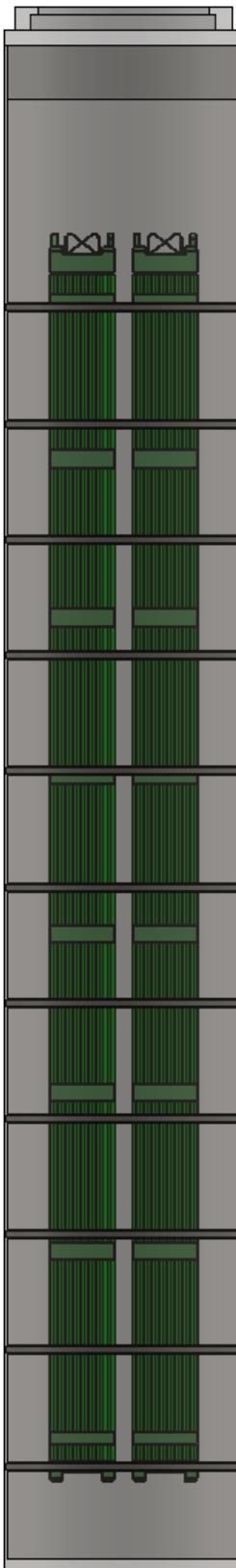
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Storage Facility Design Concepts

MEDIUM STAD CANISTER

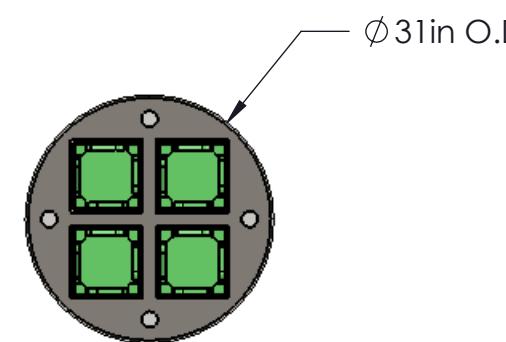
ISF CONTAINERS

TO16-S1-CPAD-CON-6

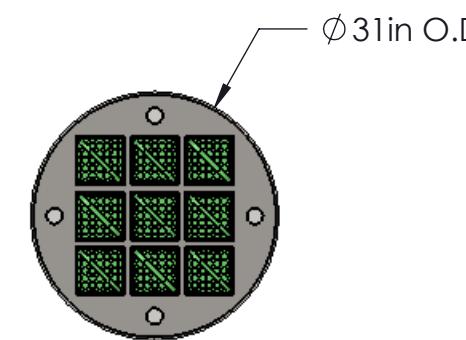
186 in - 212 in



Small STAD Canister
4 PWR



Small STAD Canister
9 BWR



Small STAD Canister



Small STAD Canister
4 PWR



Small STAD Canister
9 PWR

MAX. WEIGHT W/FUEL = 16,600 LBS.

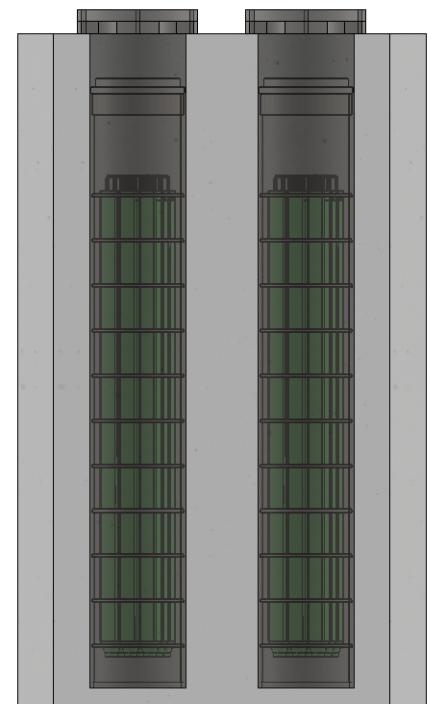
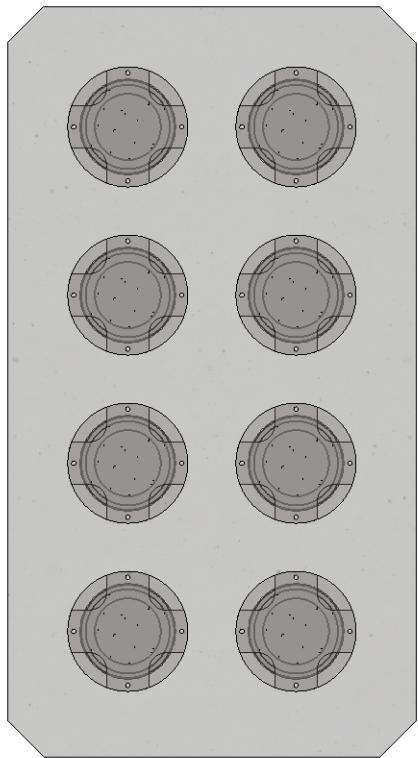


U.S. Department of Energy
Task Order #16
Development of Consolidated
Storage Facility Design Concepts

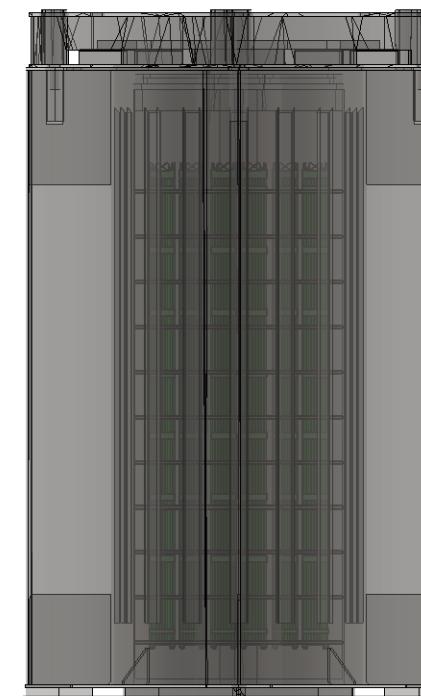
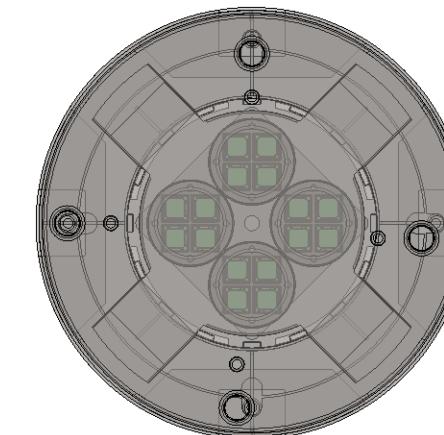
SMALL STAD CANISTER

ISF CONTAINERS

TO16-S1-CPAD-CON-7



8 BLOCK OVERPACK
W/ 8 Small STAD Canisters



VERTICAL OVERPACK
W/ 4 Small STAD Canisters

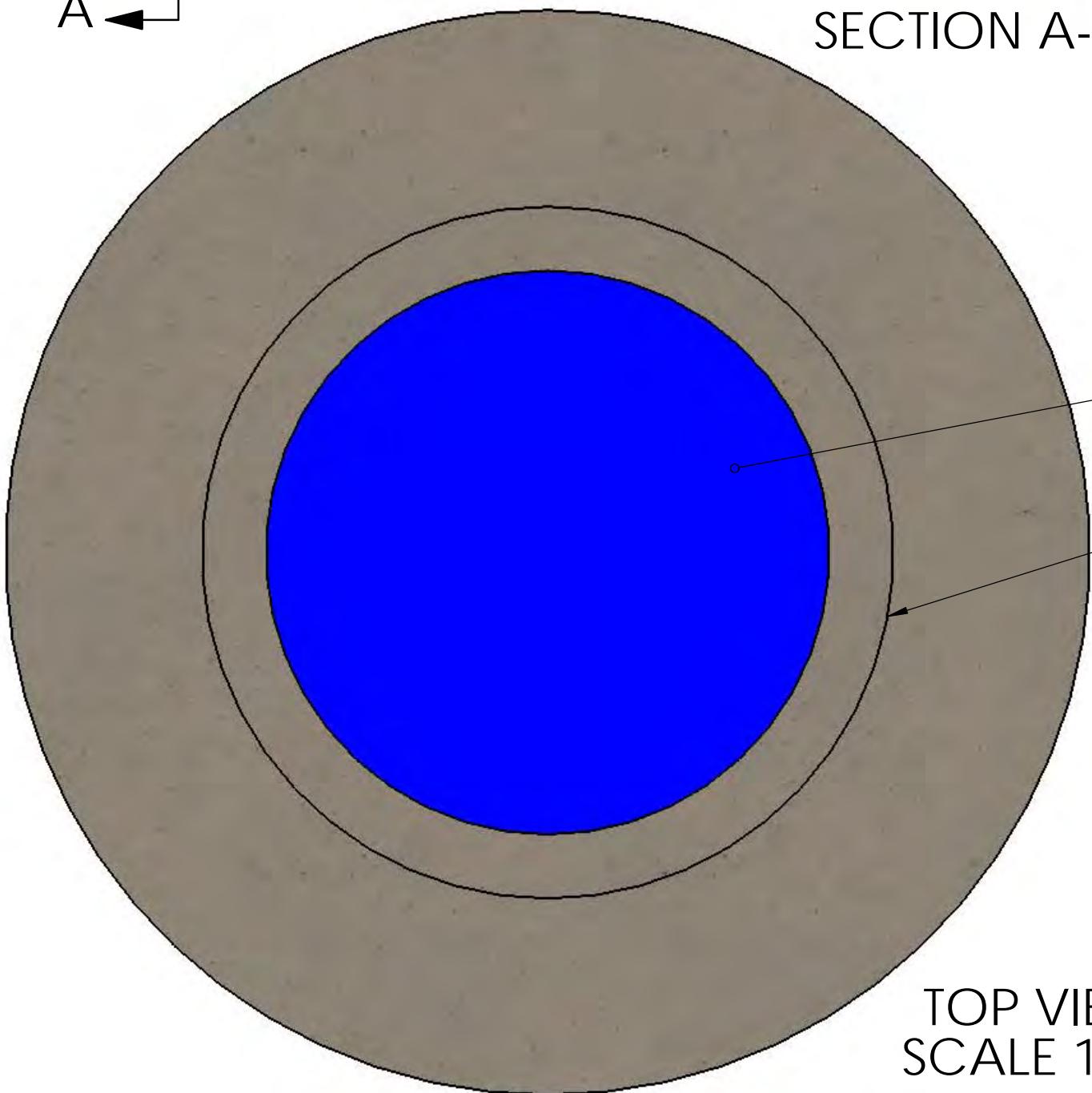
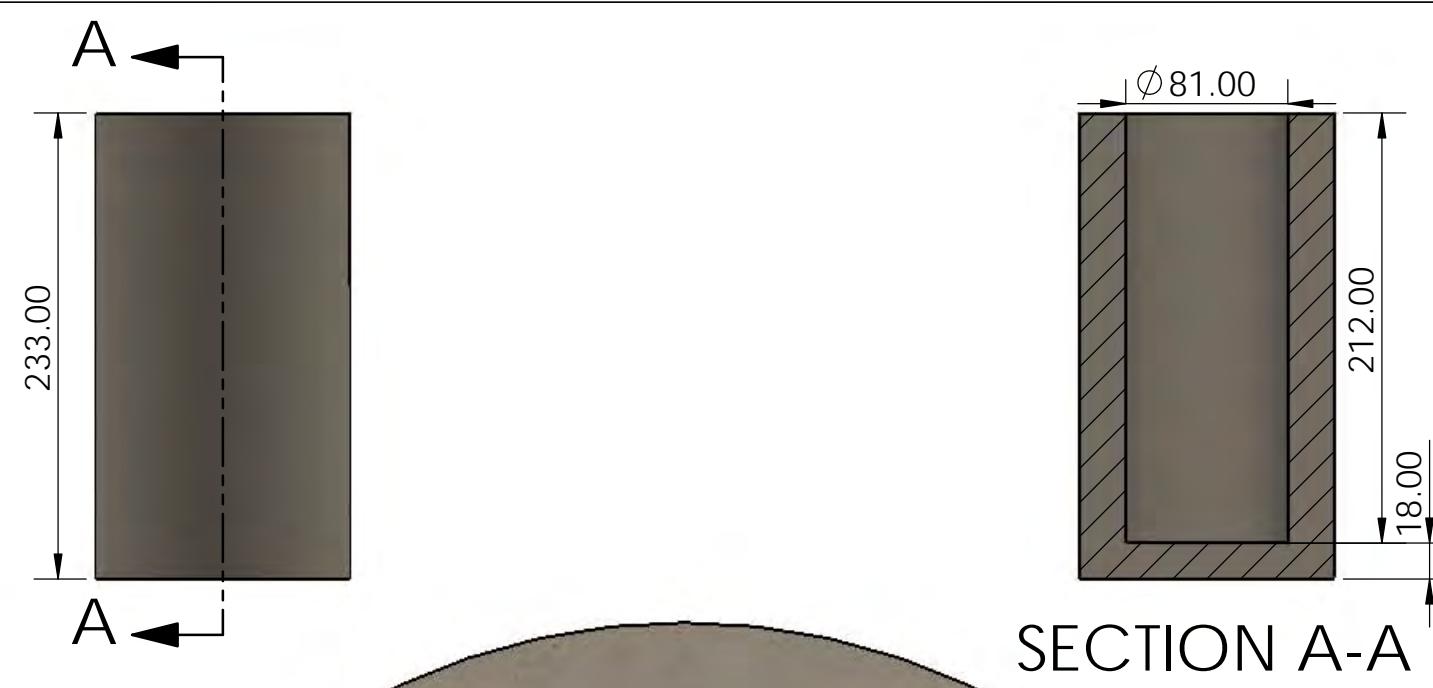


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Task Order #16
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Storage Facility Design Concepts

SMALL STAD MULTI-CAN ALTERNATIVES

ISF CONTAINERS

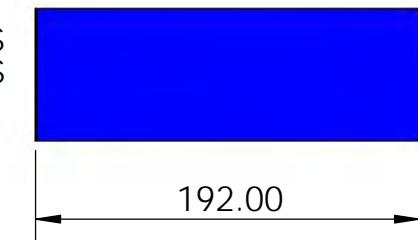
TO16-S1-CPAD-CON-8



66.00" DIAMETER
ENERGY SOLUTIONS SFMS

81.00" CASK INNER DIAMETER

ENERGY SOLUTIONS
SMFS

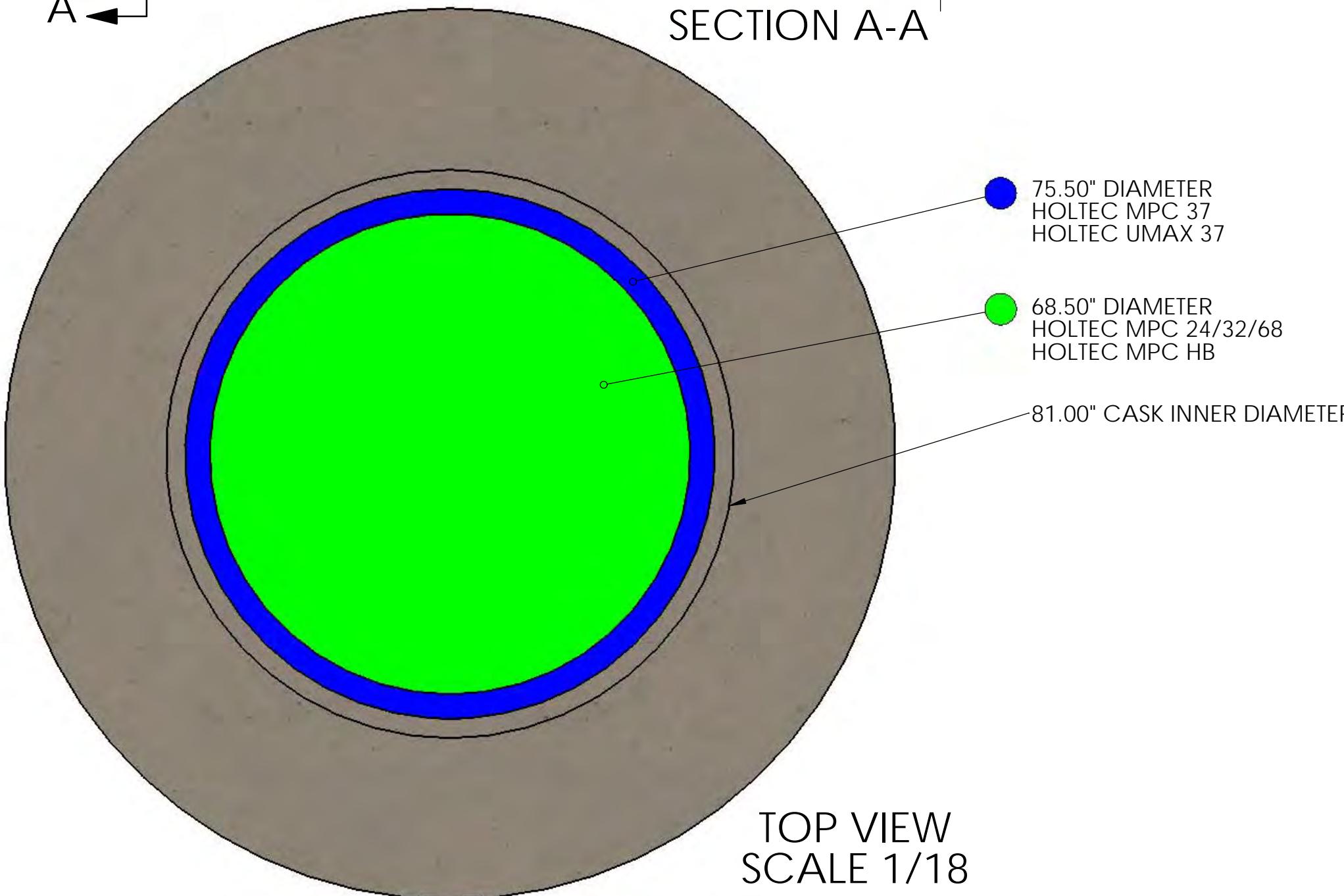
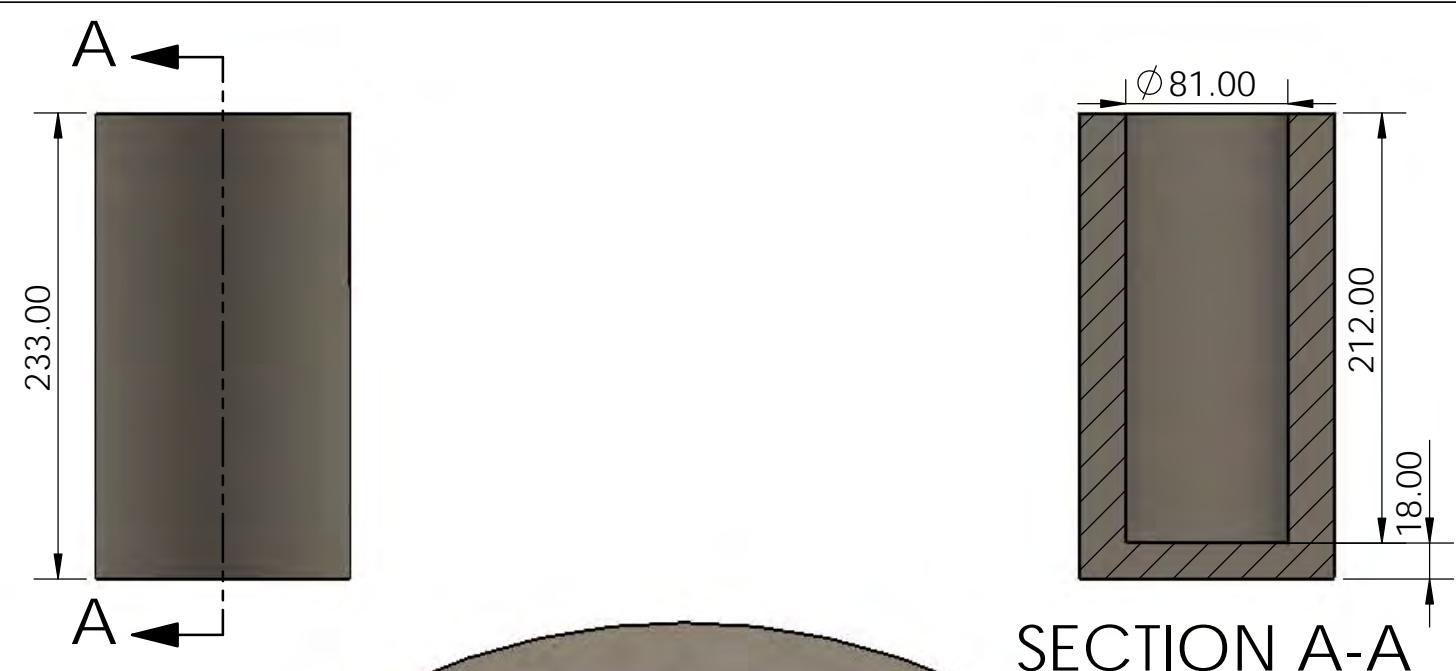


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Storage Facility Design Concepts

ENERGY SOLUTIONS VERTICAL STANDARD OVERPACK

ISF CONTAINERS

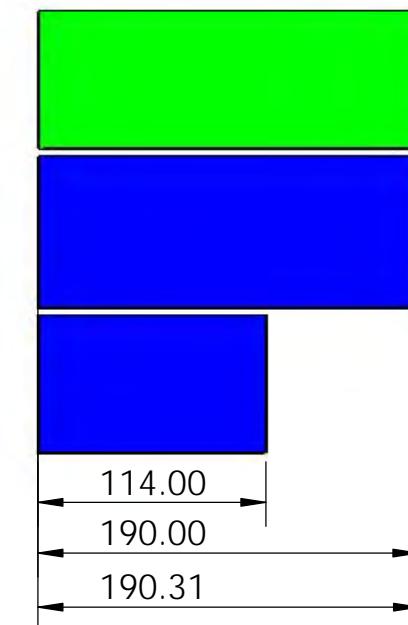
TO16-S1-CSTD-CON-9



HOLTEC MPC-37
UMAX 37

HOLTEC MPC 24/
32/68

HOLTEC MPC HB

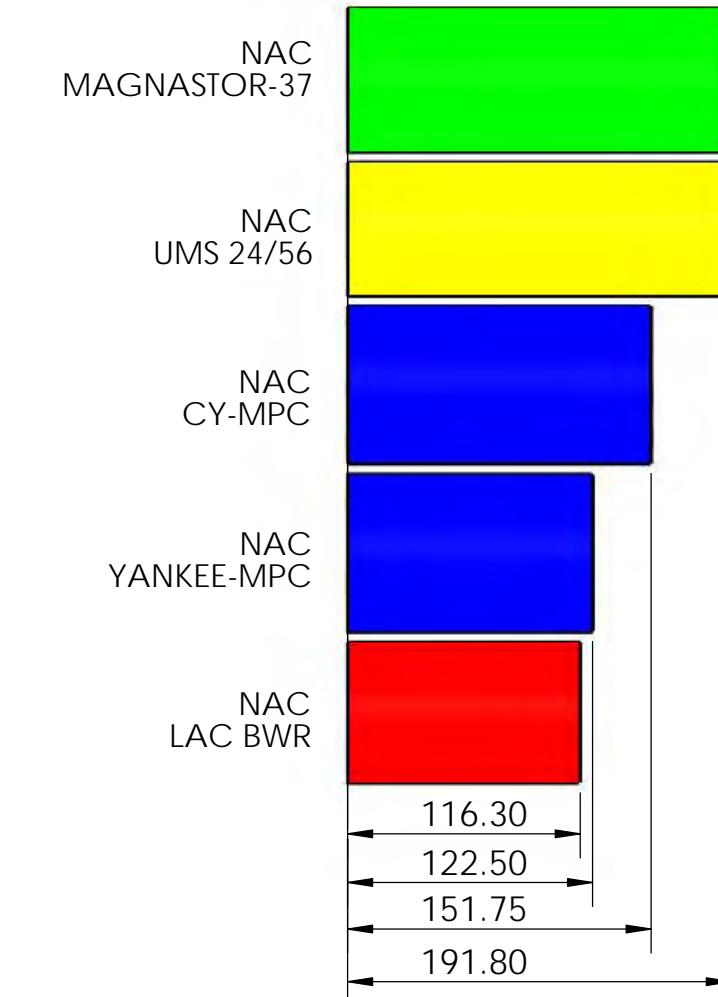
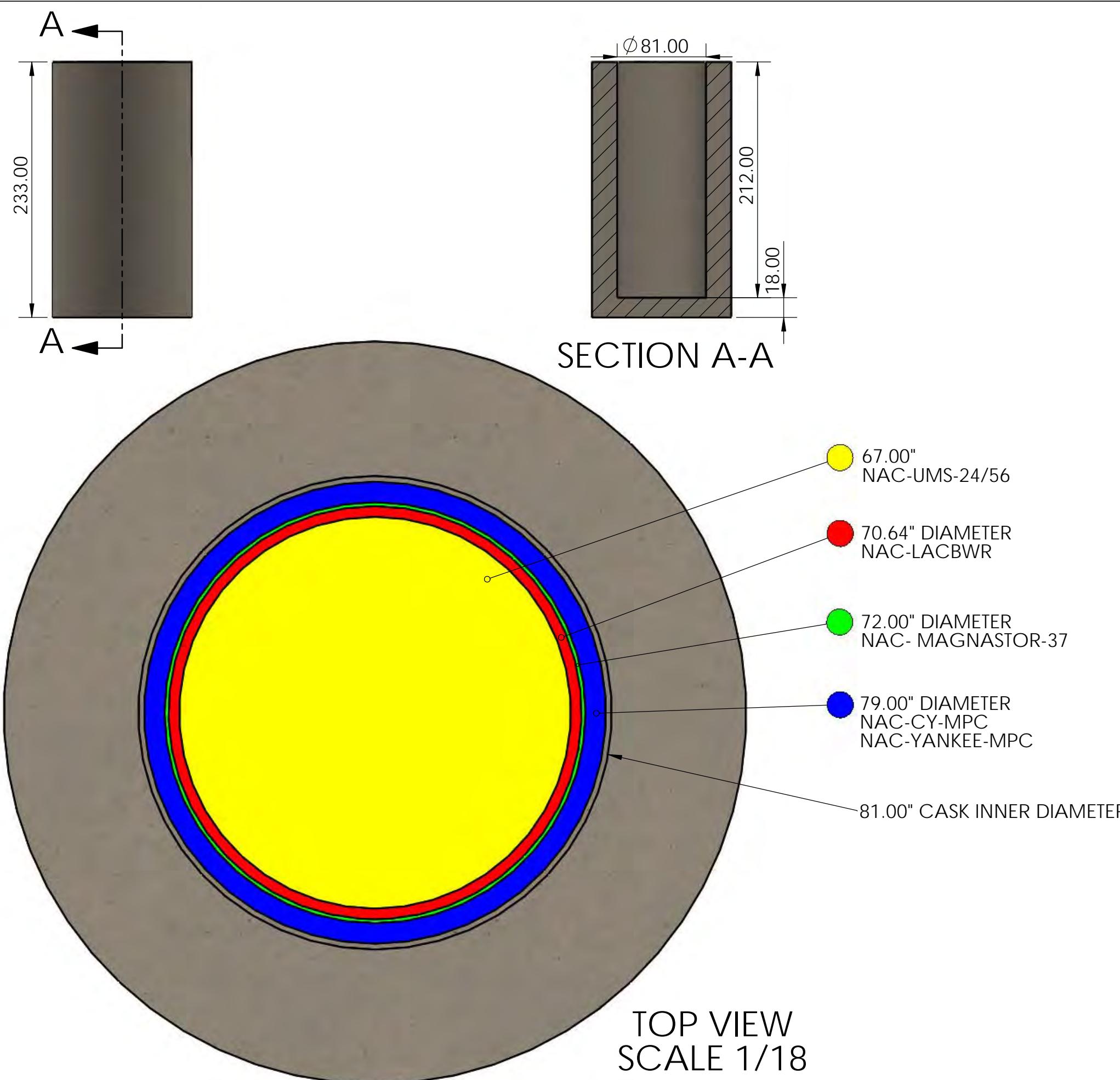


U.S. Department of Energy
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Storage Facility Design Concepts

HOLTEC VERTICAL STANDARD OVERPACK

ISF CONTAINERS

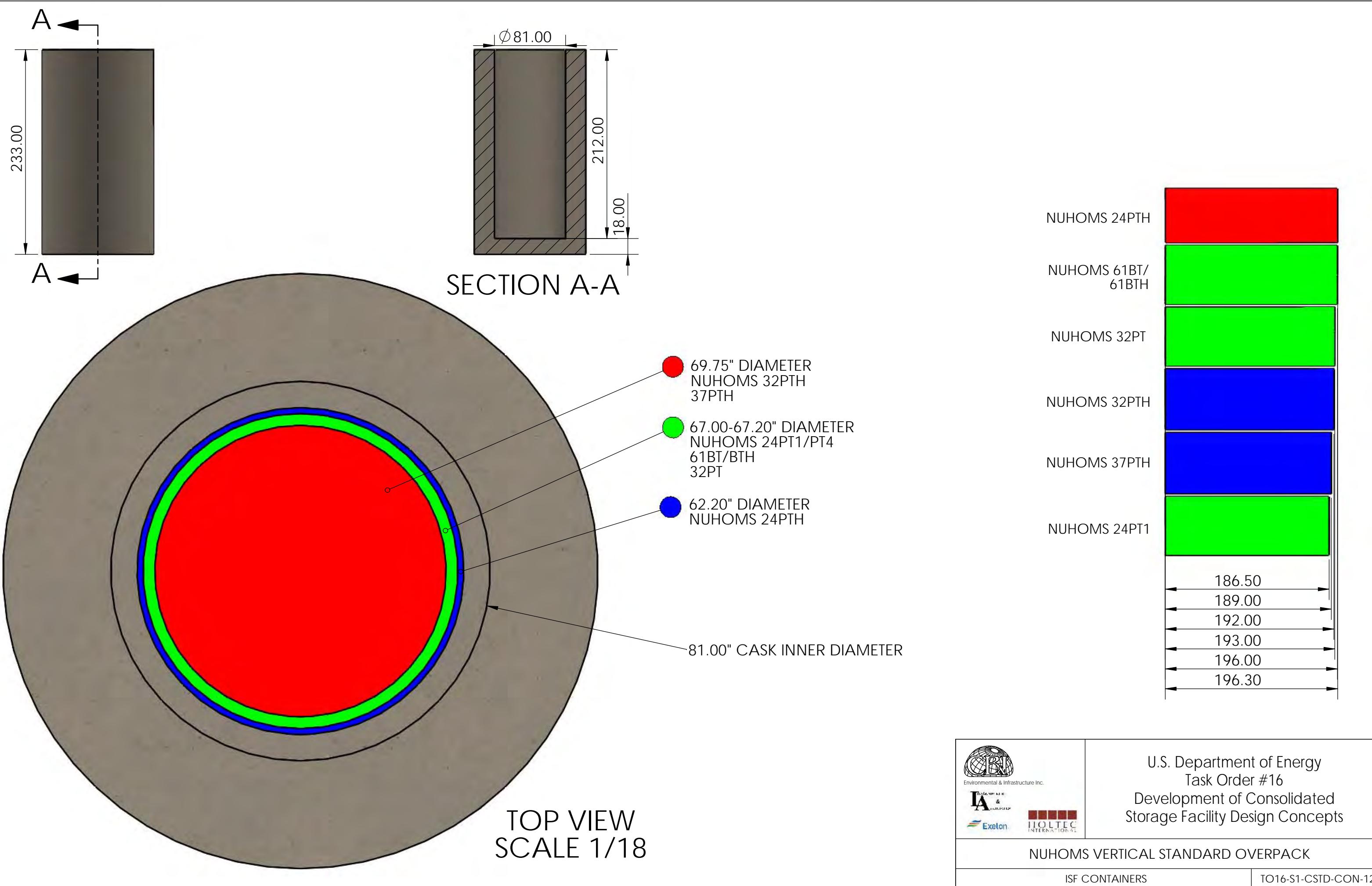
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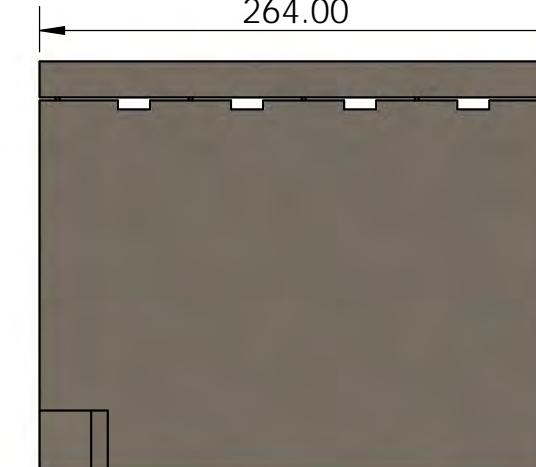
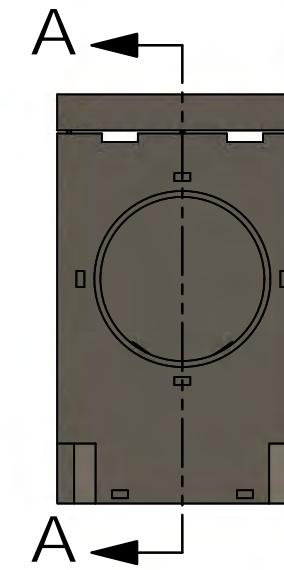
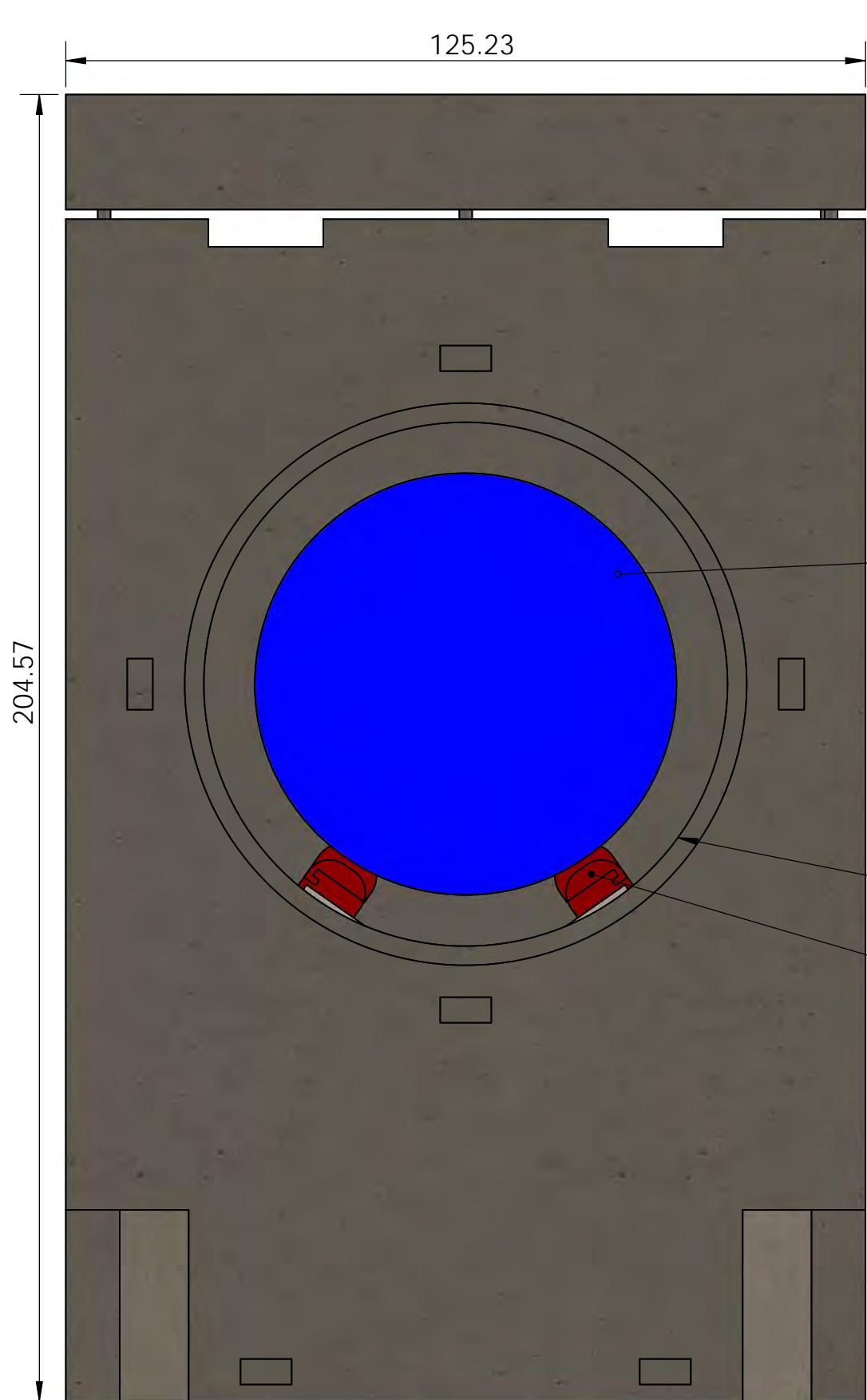


NAC VERTICAL STANDARD OVERPACK

ISF CONTAINERS

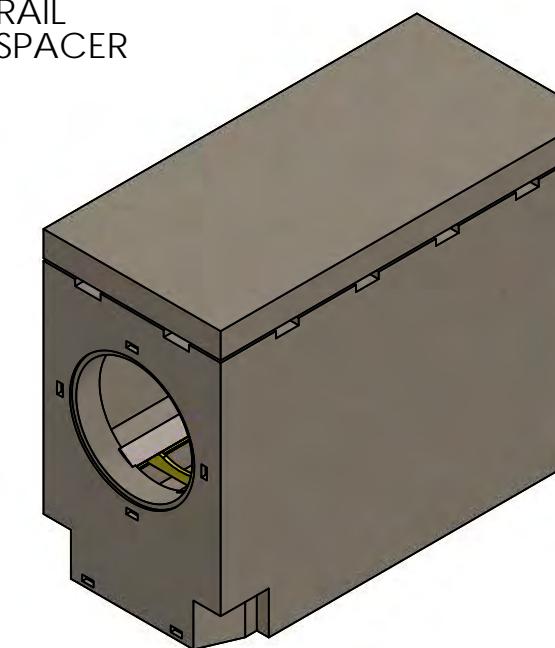
TO16-S1-CSTD-CON-11



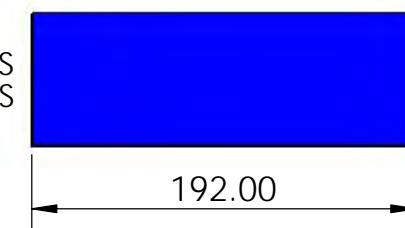


66.00" DIAMETER
ENERGY SOLUTIONS SFMS

81.00" MAXIMUM
CASK DIAMETER
ADJUSTABLE
RAIL
SPACER



ENERGY SOLUTIONS
SMFS



FRONT ELEVATION
SCALE 1:24

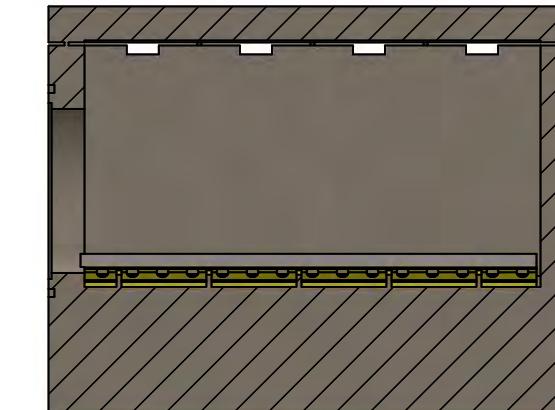
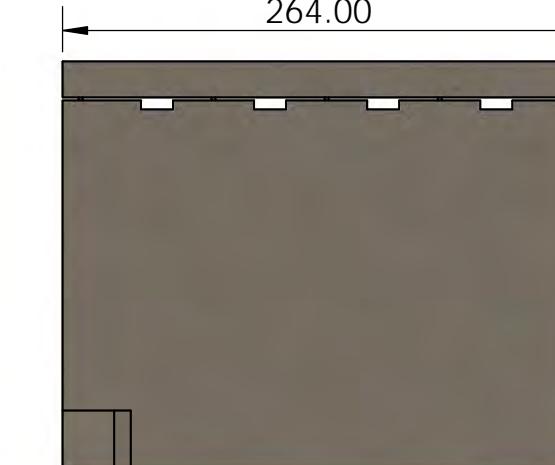
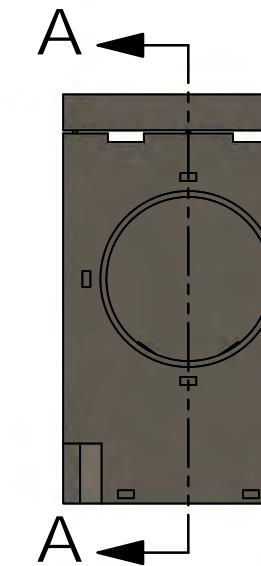
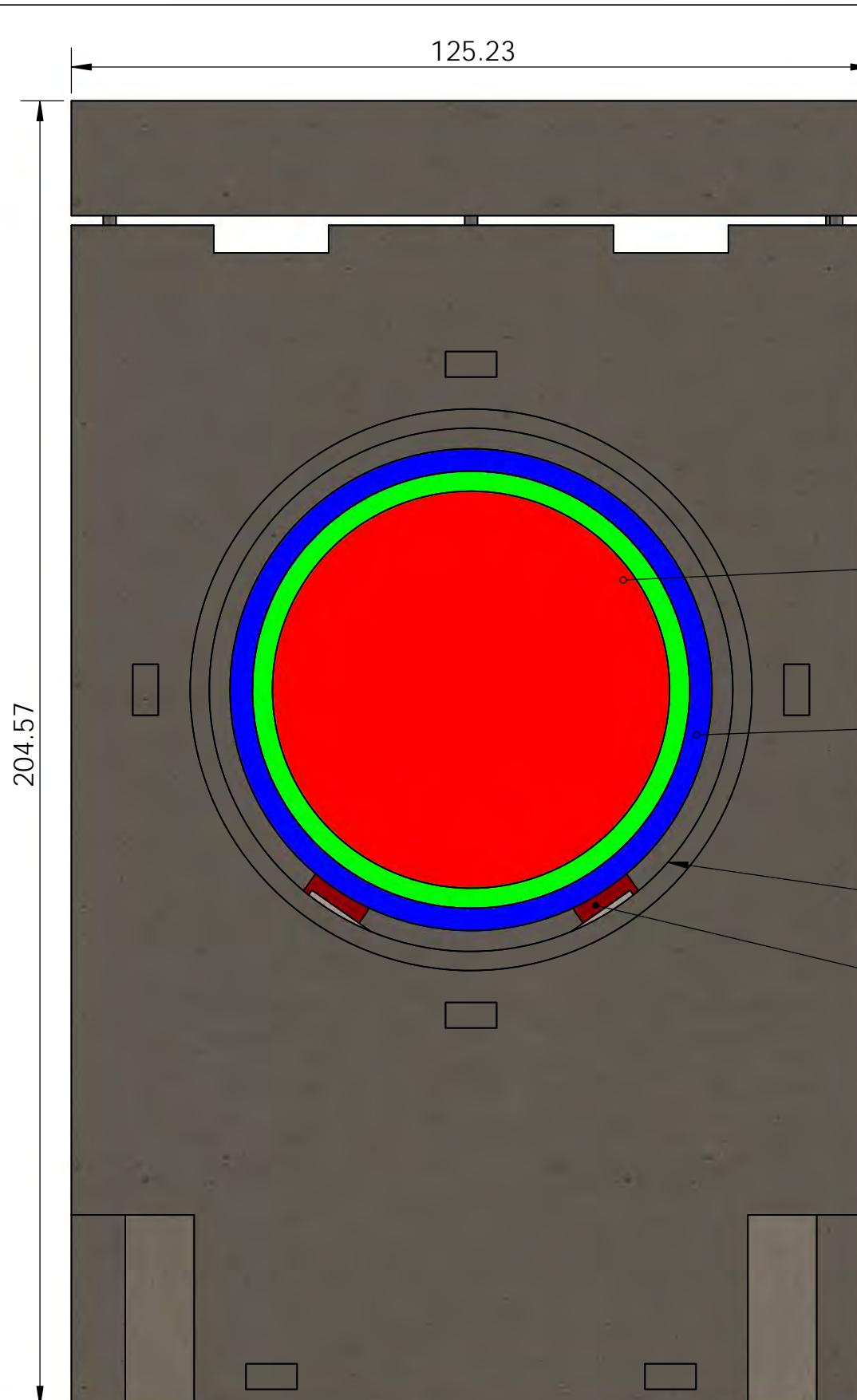


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ENERGY SOLUTIONS HORIZONTAL STANDARD OVERPACK

ISF CONTAINERS

TO16-S1-CSTD-CON-13

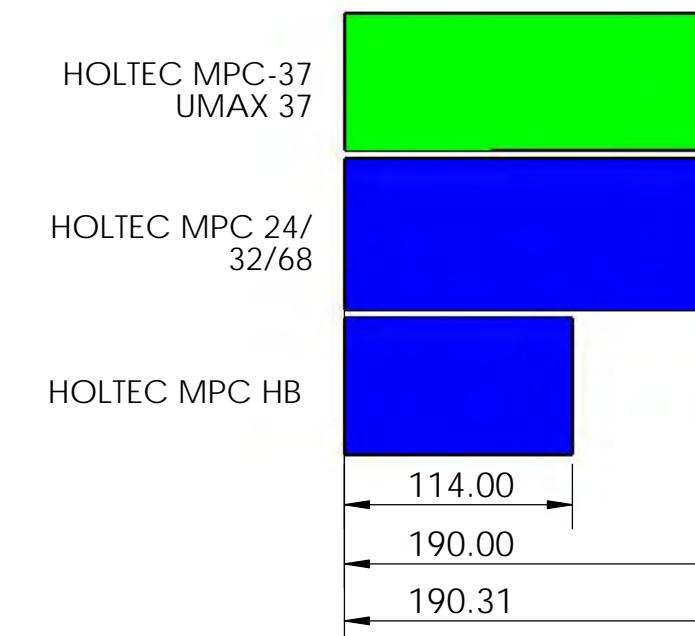
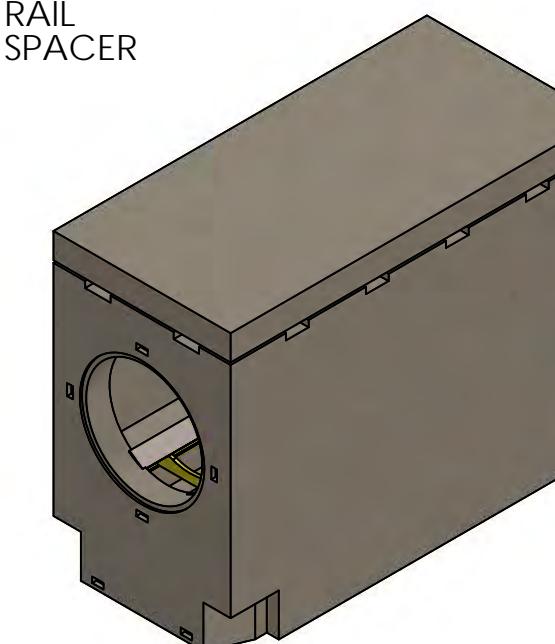


68.50" DIAMETER
HOLTEC MPC 24/32/68
HOLTEC MPC HB

75.50" DIAMETER
HOLTEC MPC 37
HOLTEC UMAX 37

81.00" MAXIMUM
CASK DIAMETER

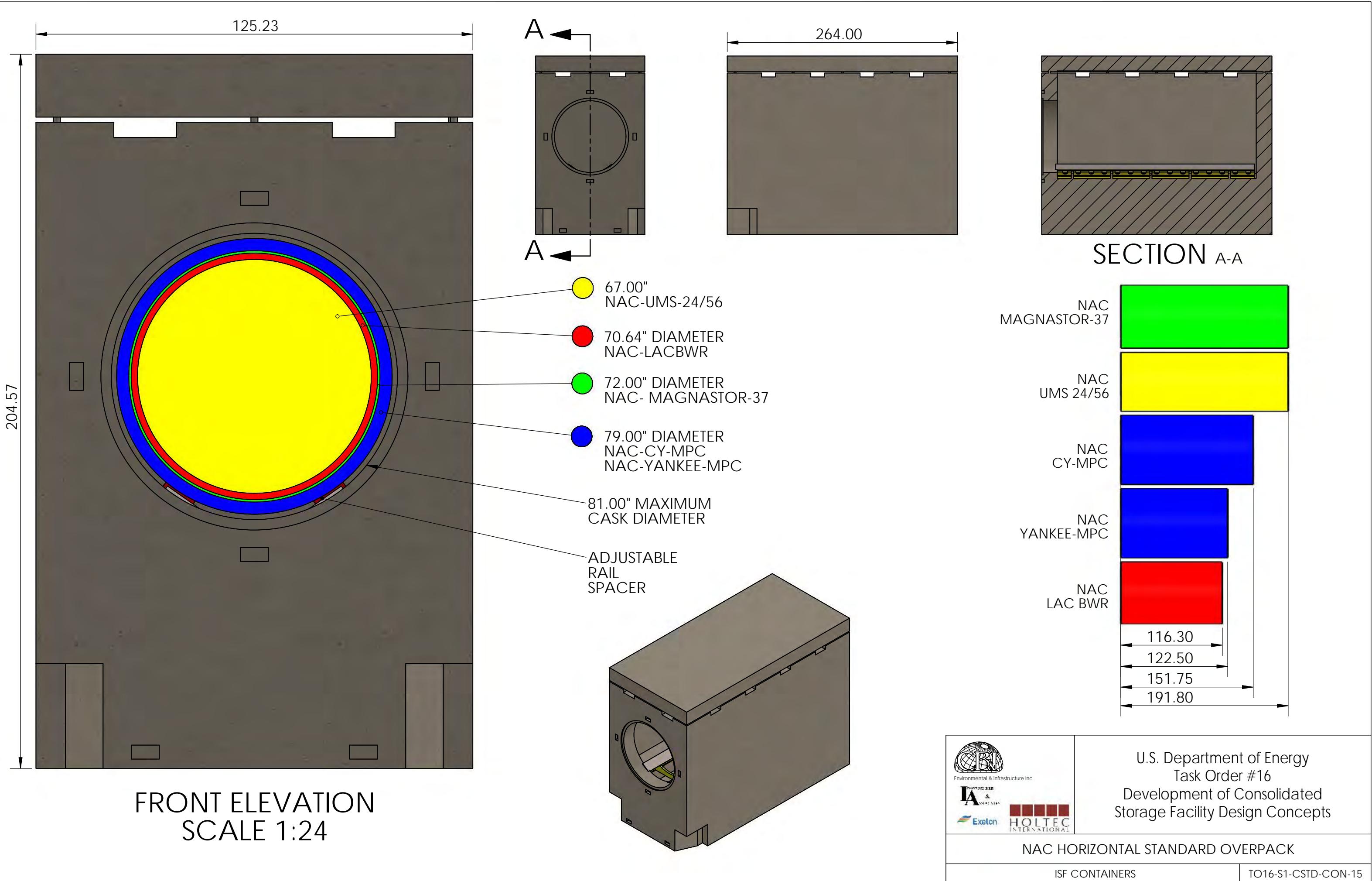
ADJUSTABLE
RAIL
SPACER

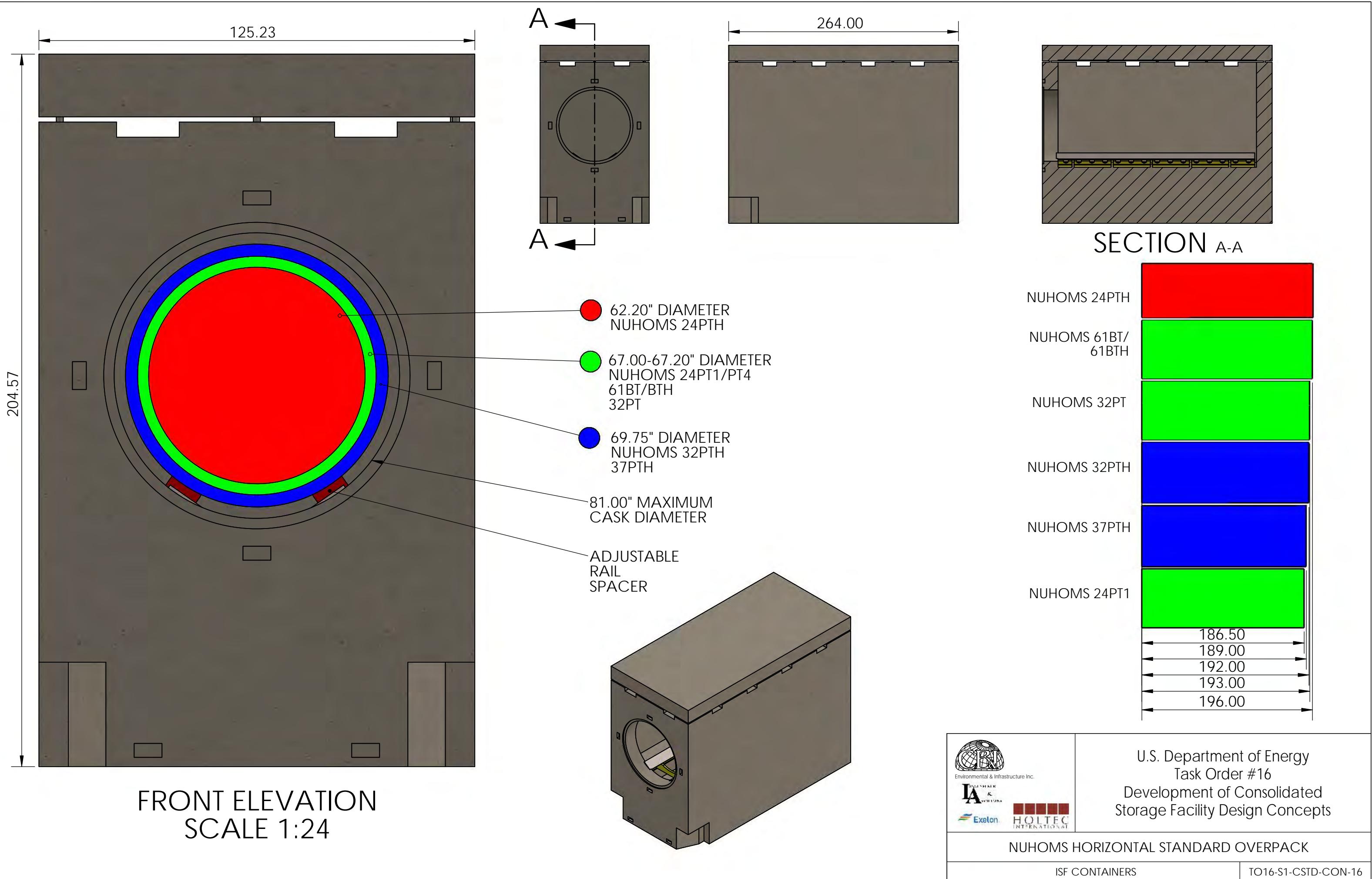


HOLTEC HORIZONTAL STANDARD OVERPACK

ISF CONTAINERS

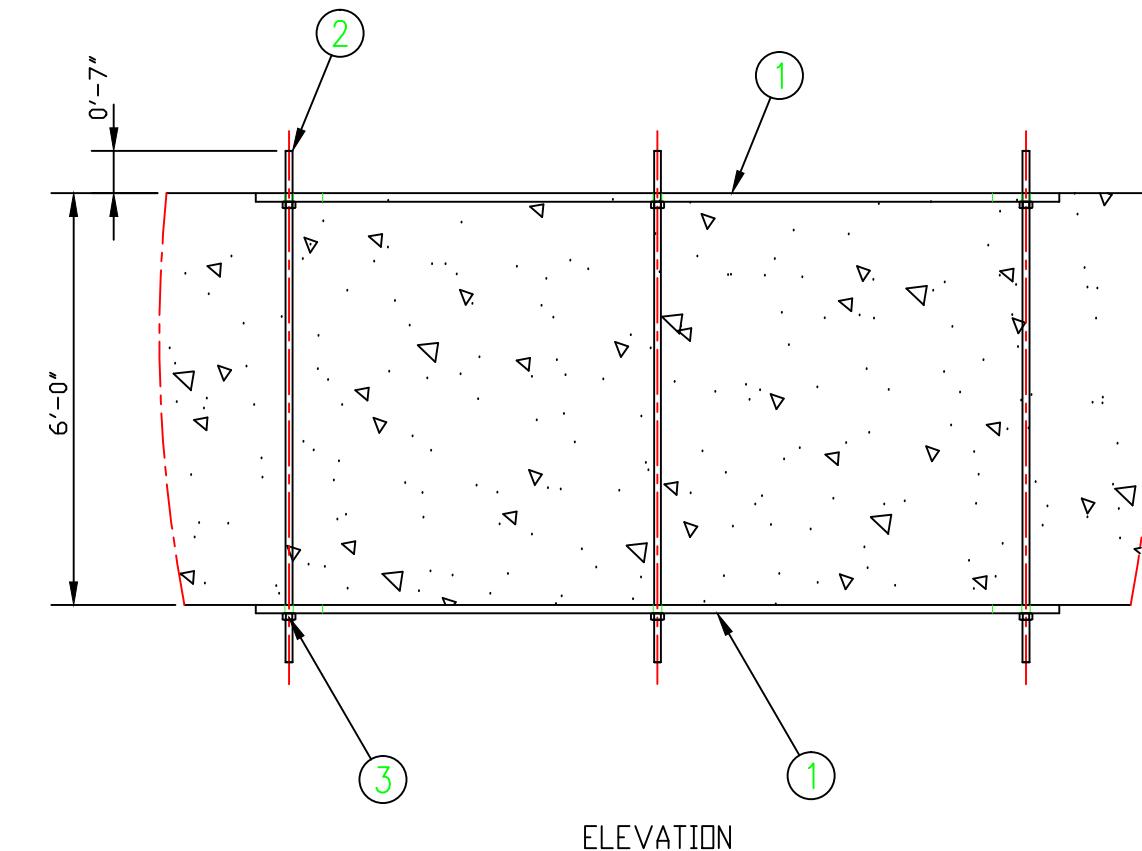
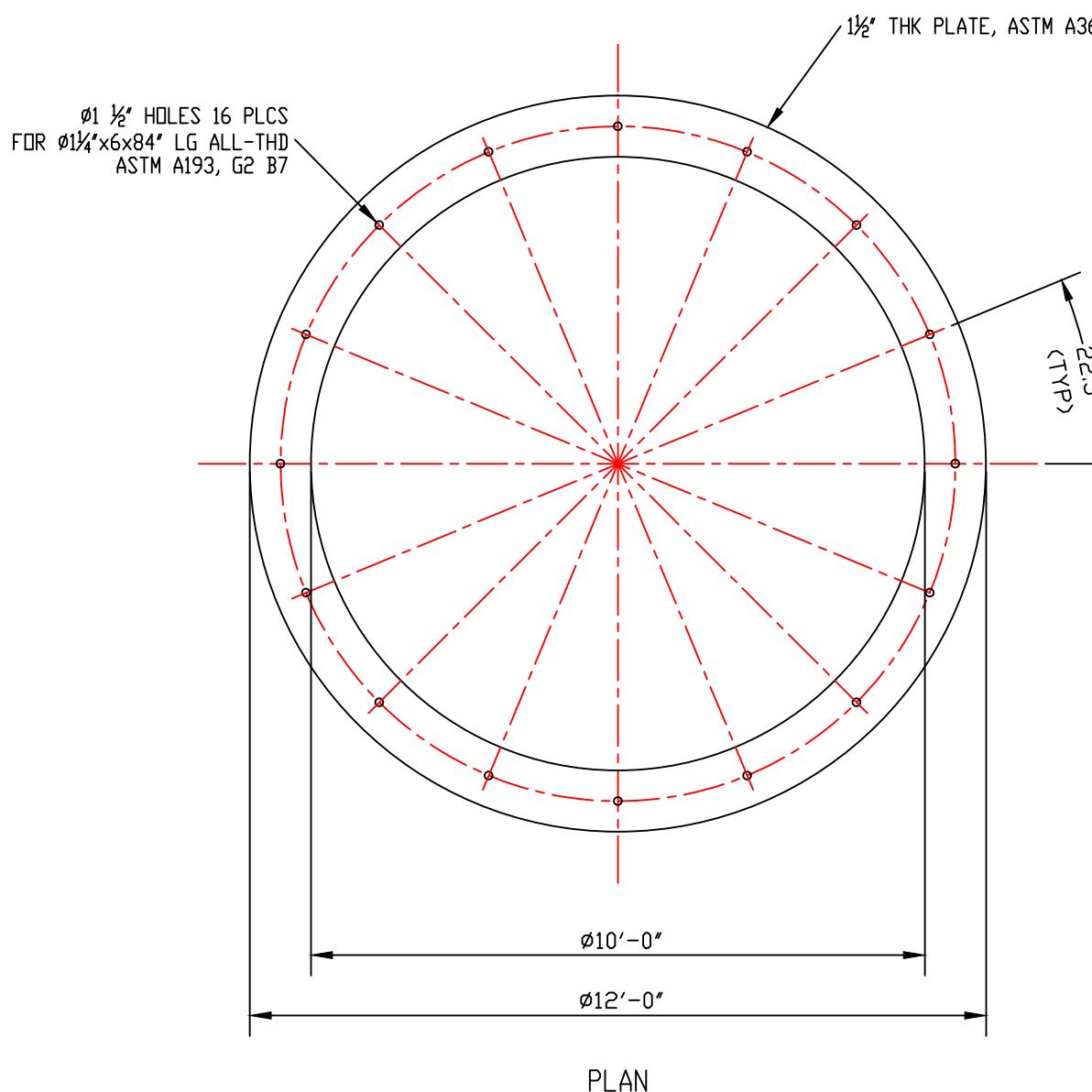
TO16-S1-CSTD-CON-14





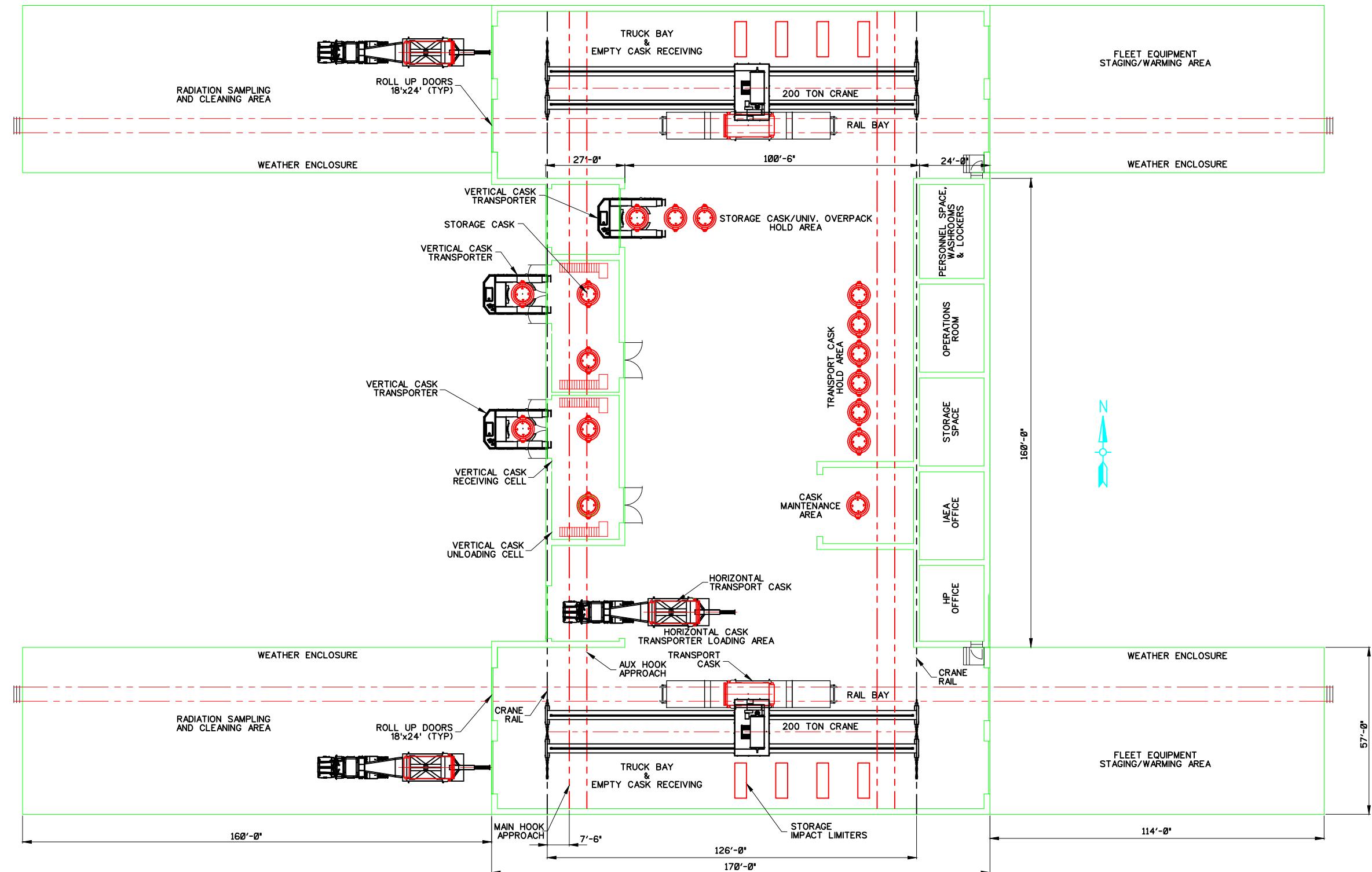
BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL/MANUFACTURE	REMARKS
1	2	SUPPORT RING	PLATE $\phi 12' \times 1\frac{1}{2}$ " THK ASTM A36	
2	16	TIE ROD	$\phi 1\frac{1}{4}-6 \times 84"$ LG ALL THD ROD ASTM A193 GR B7	
3	32	HEX NUT	$\phi 1\frac{1}{4}-6$ HEX NUT ASTM A194 GR B7	



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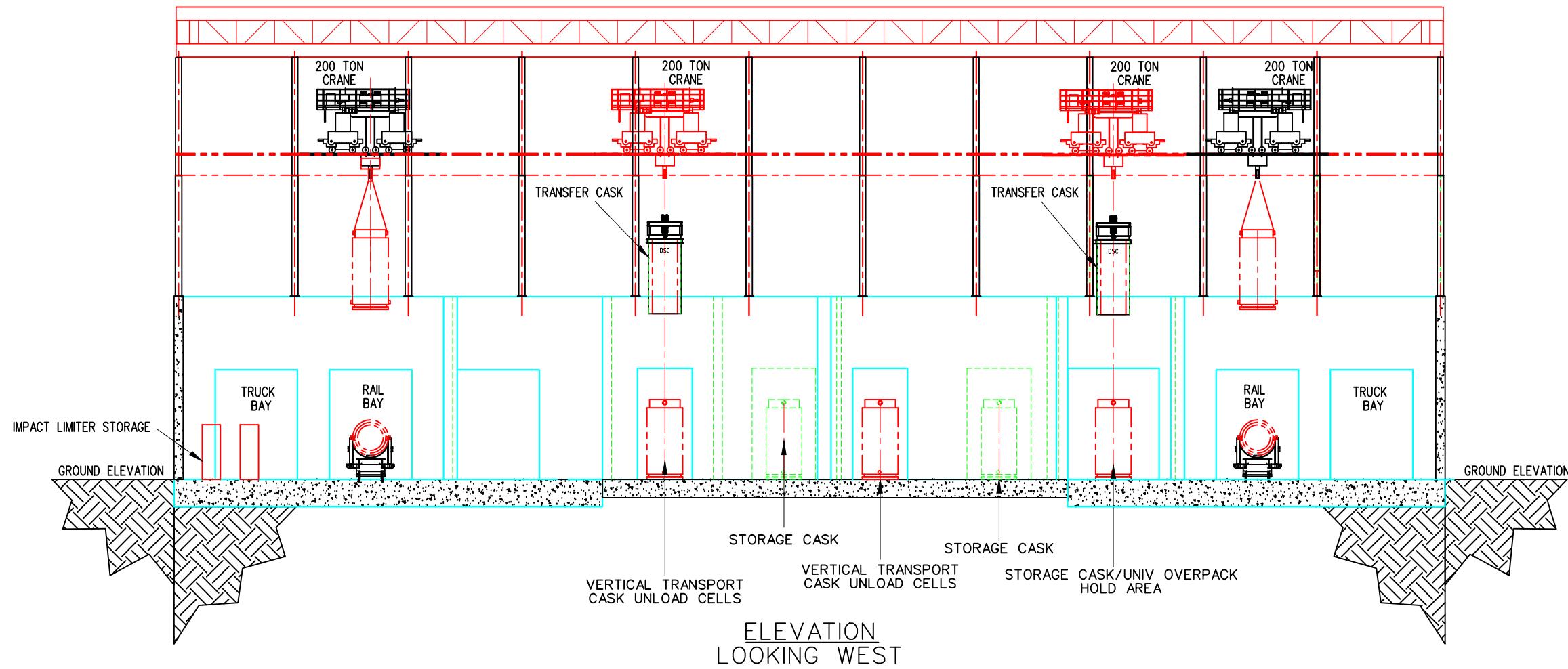
VERTICAL STORAGE CASK PAD SEISMIC RESTRAINTS	ISF CONTAINERS	TO16-S1-CPAD-DET-17
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Task Order #16
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Storage Facility Design Concepts

CASK HANDLING BUILDING-PLAN-CONVENTIONAL

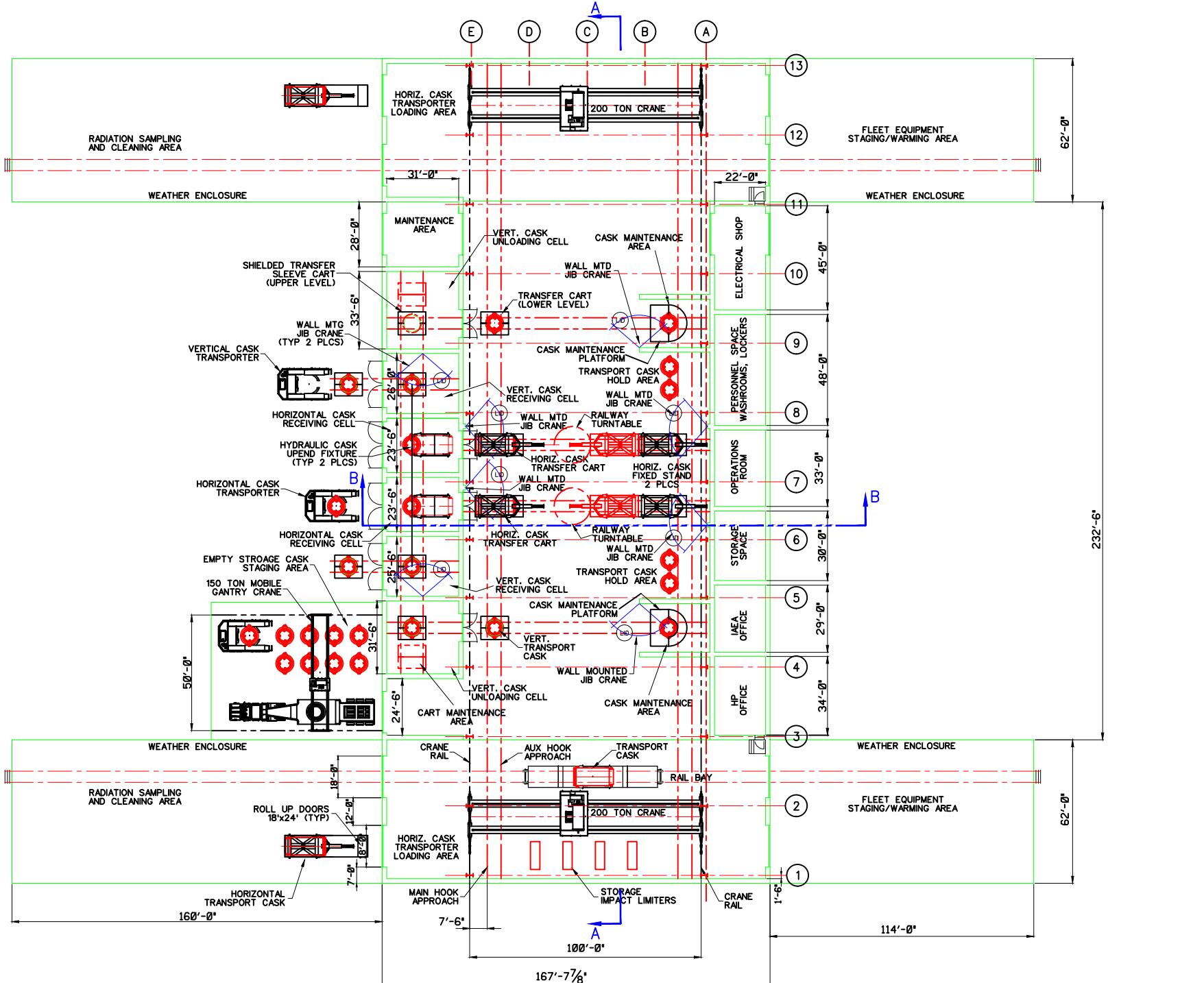
STUDY #2-ALTERNATIVE CASK HANDLING METHODS | T016-S2-COPS-CHB-1



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CASK HANDLING BUILDING-ELEV-CONVENTIONAL

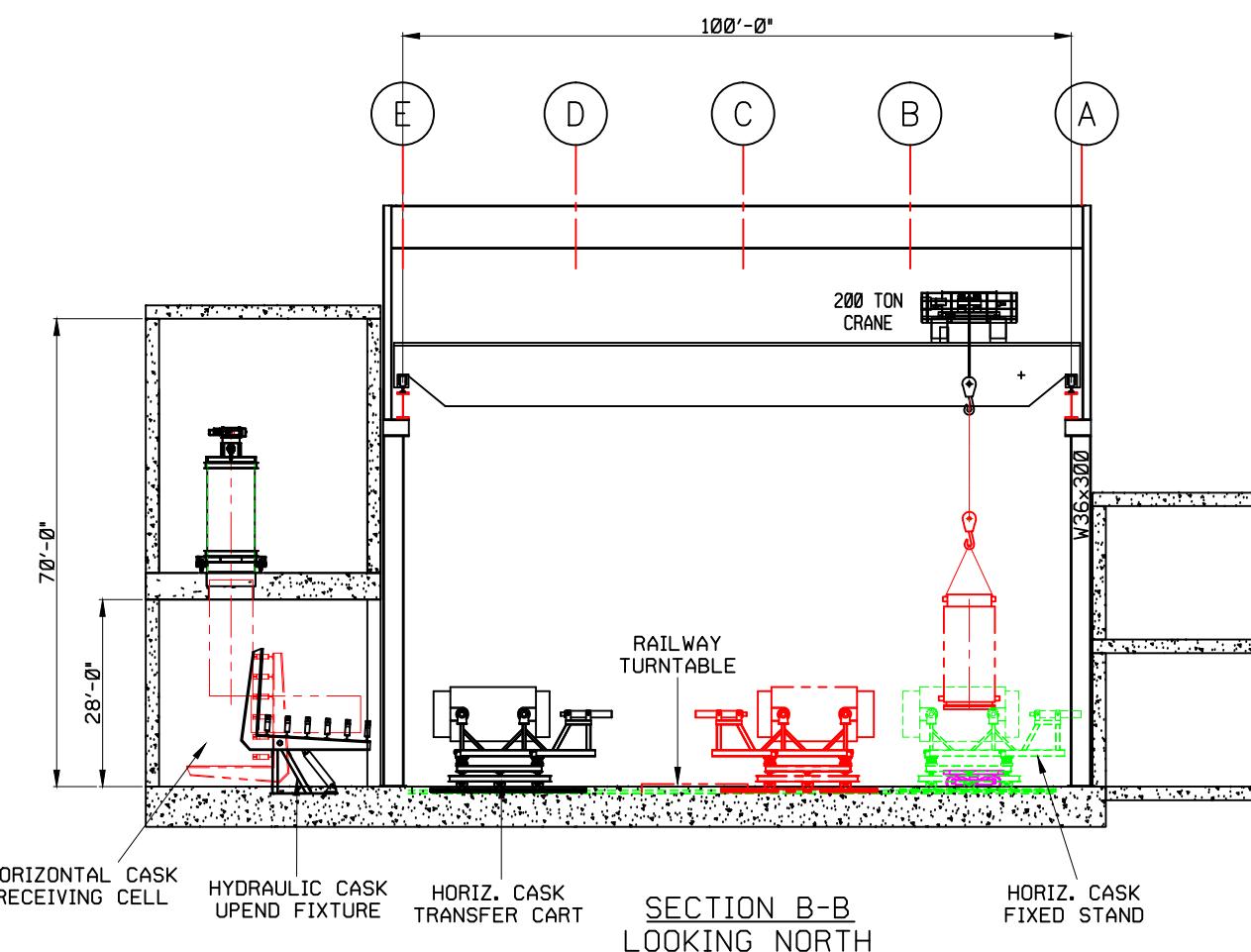
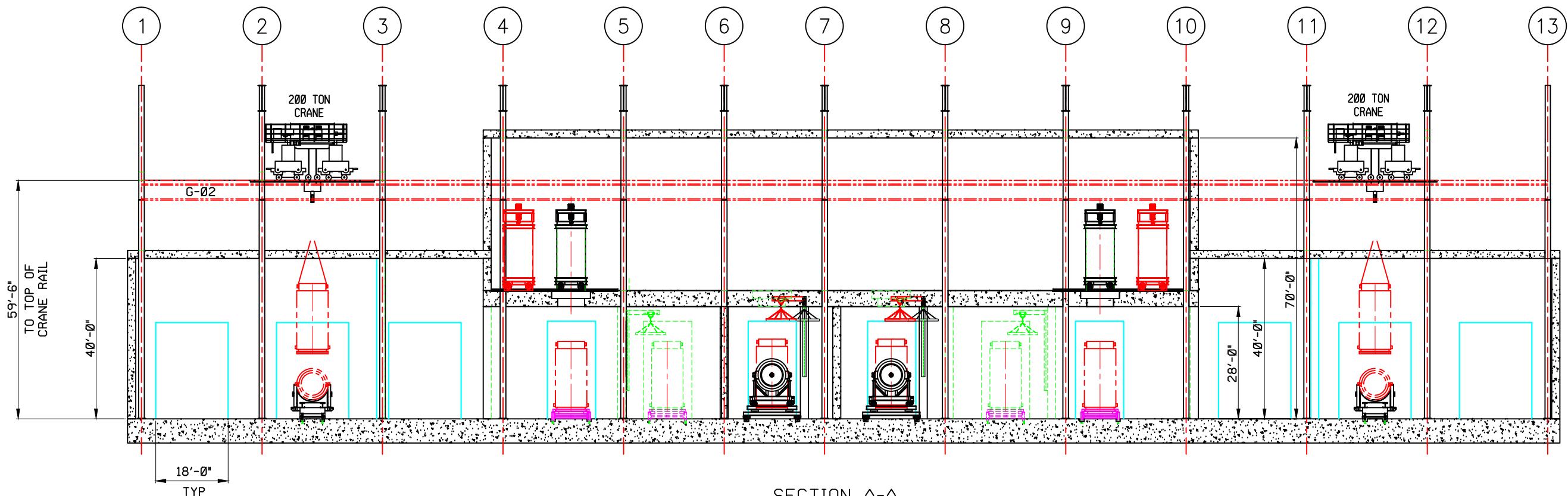
STUDY #2-ALTERNATIVE CASK HANDLING METHODS T016-S2-COPS-CHB-2



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CASK HANDLING BUILDING PLAN-AUTOMATED

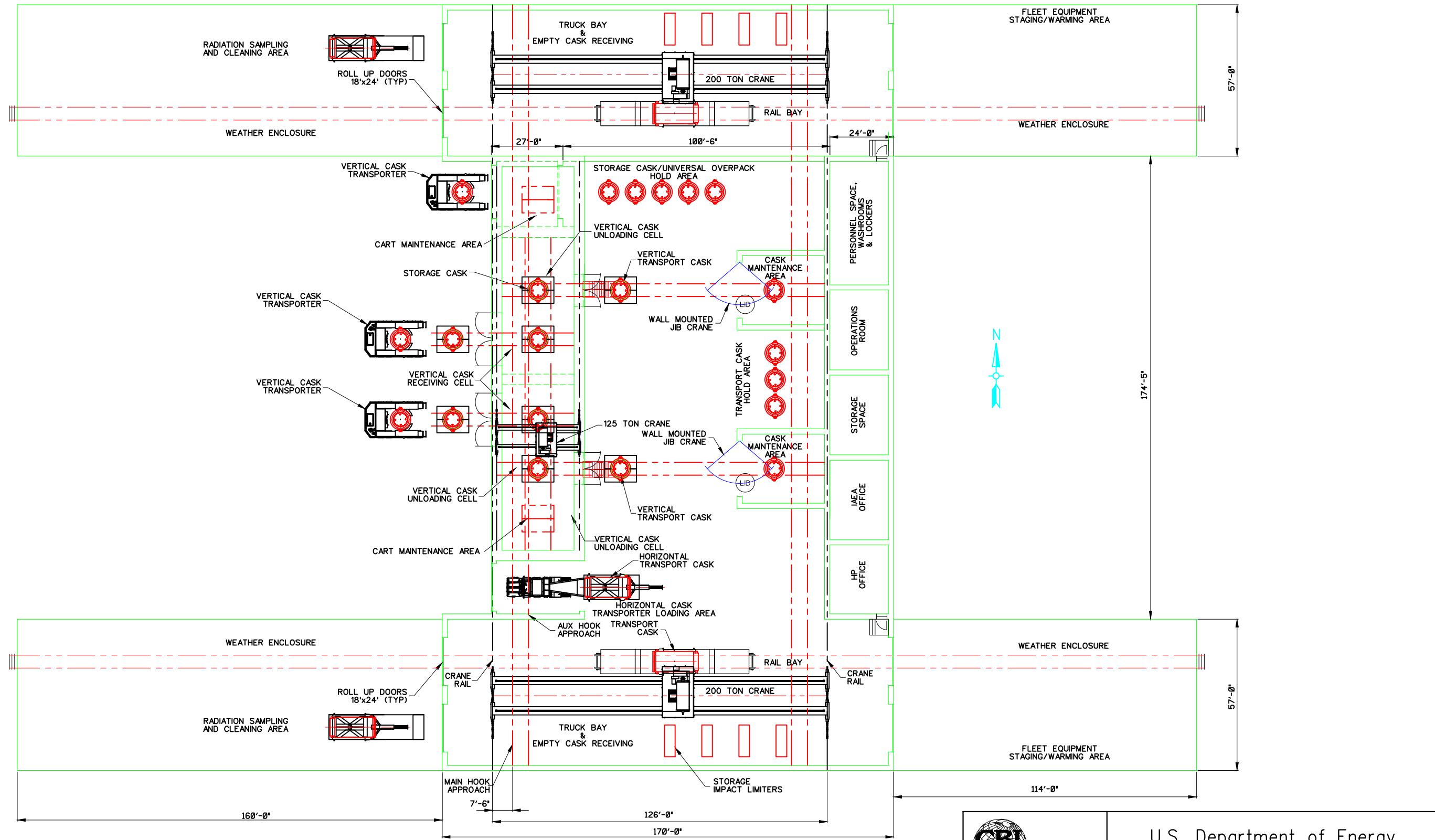
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CASK HANDLING BUILDING-ELEV-CONVENTIONAL

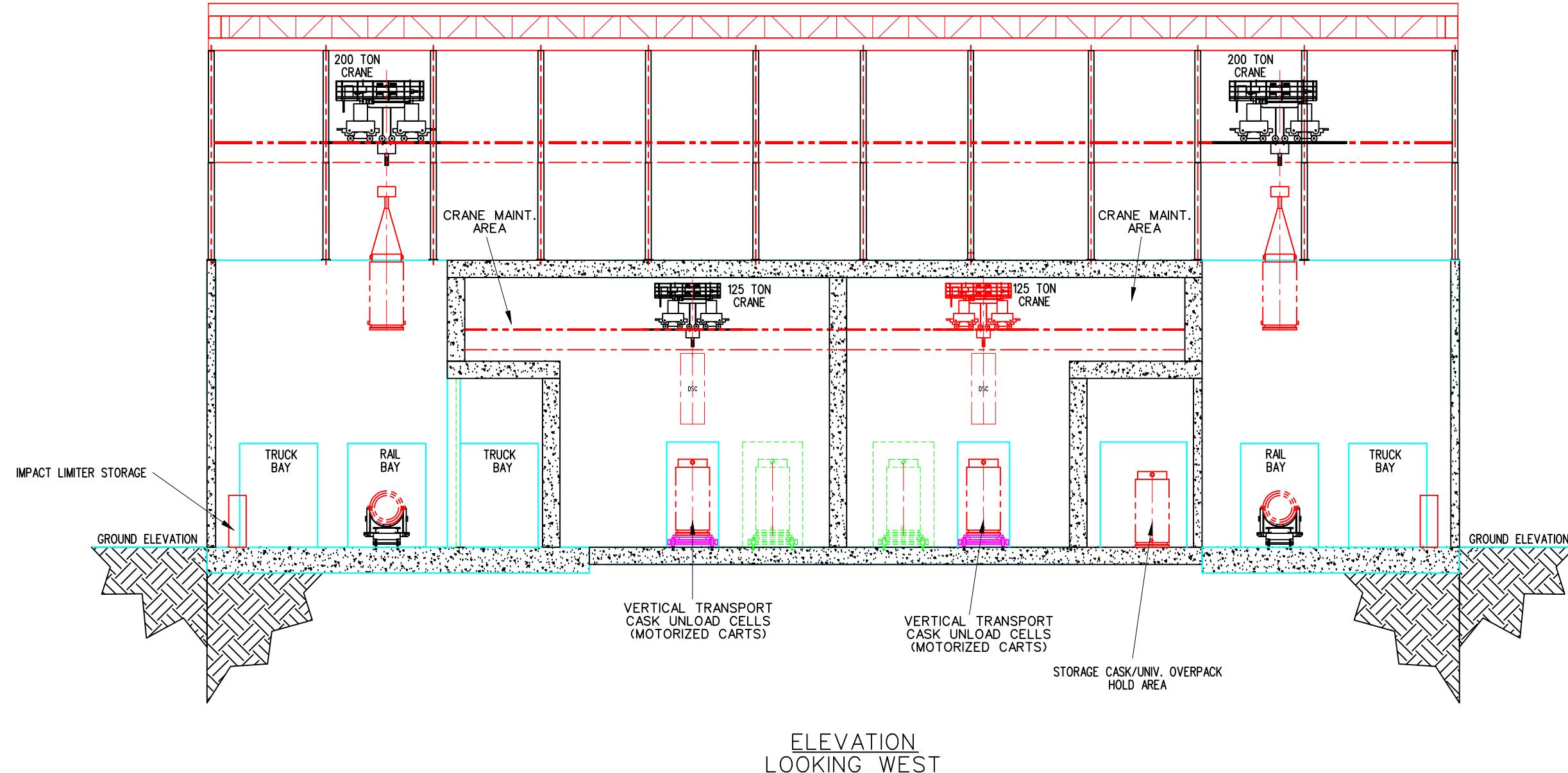
STUDY #2-ALTERNATIVE CASK HANDLING METHODS T016-S2-AOPS-CHB-4



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Storage Facility Design Concepts

CASK HANDLING BUILDING-PLAN-REMOTE

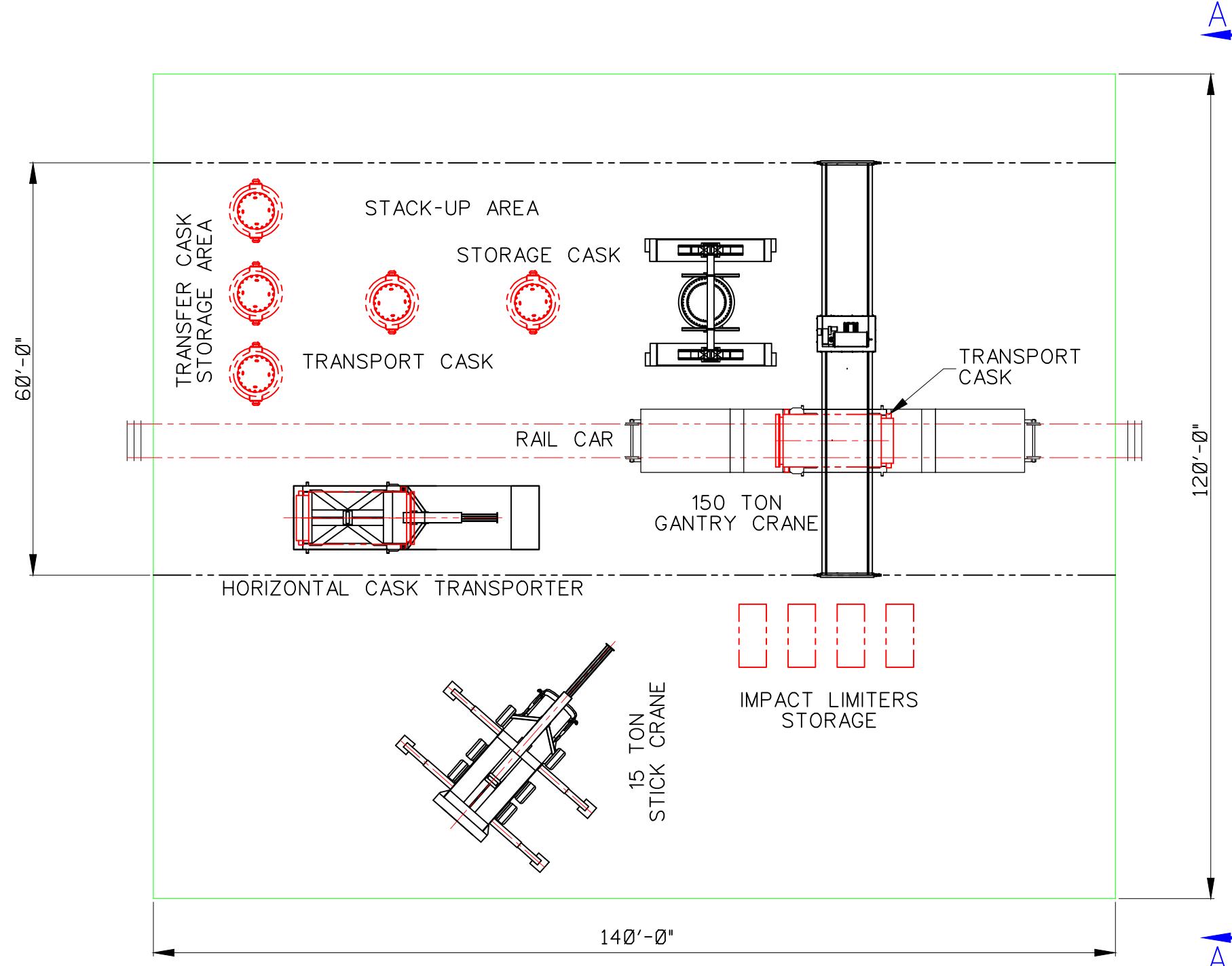
STUDY #2-ALTERNATIVE CASK HANDLING METHODS T016-S2-ROPS-CHB-5



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CASK HANDLING BUILDING ELEV REMOTE

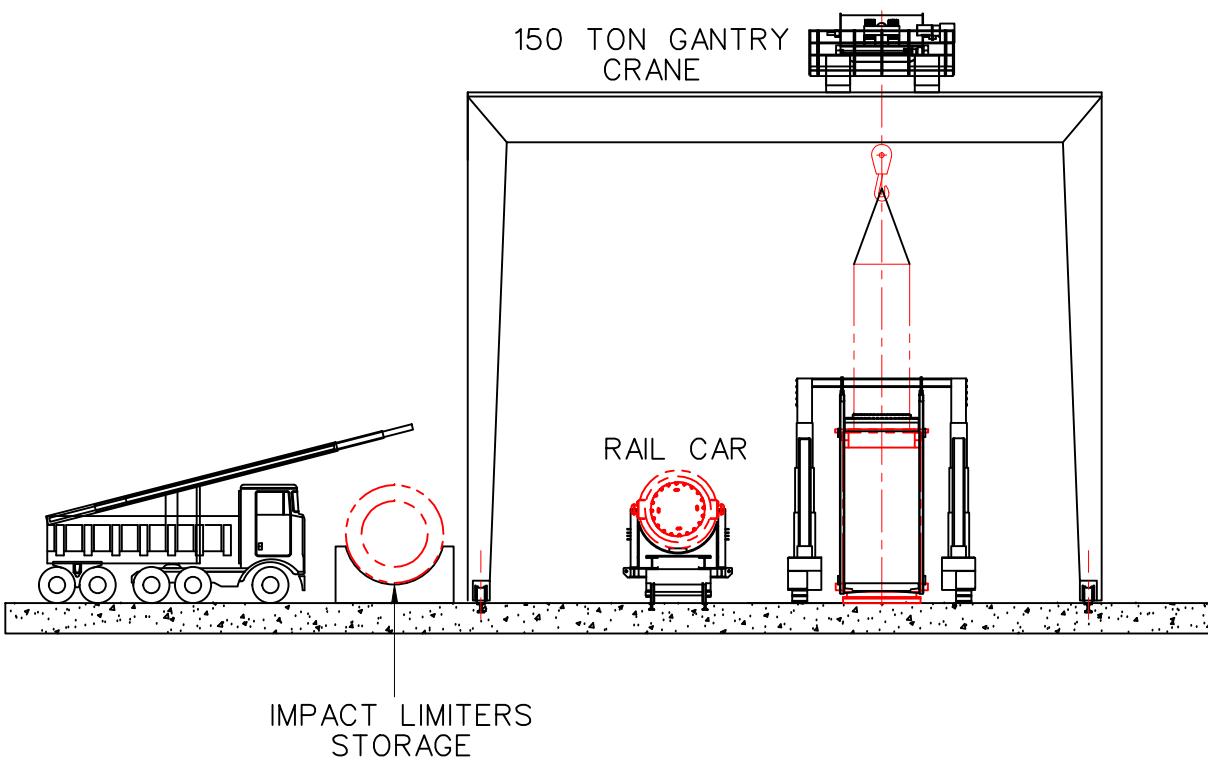
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CASK HANDLING PAD-PLAN-BASIC

STUDY #2-ALTERNATIVE CASK HANDLING METHODS | T016-S2-SOPS-CHB-7



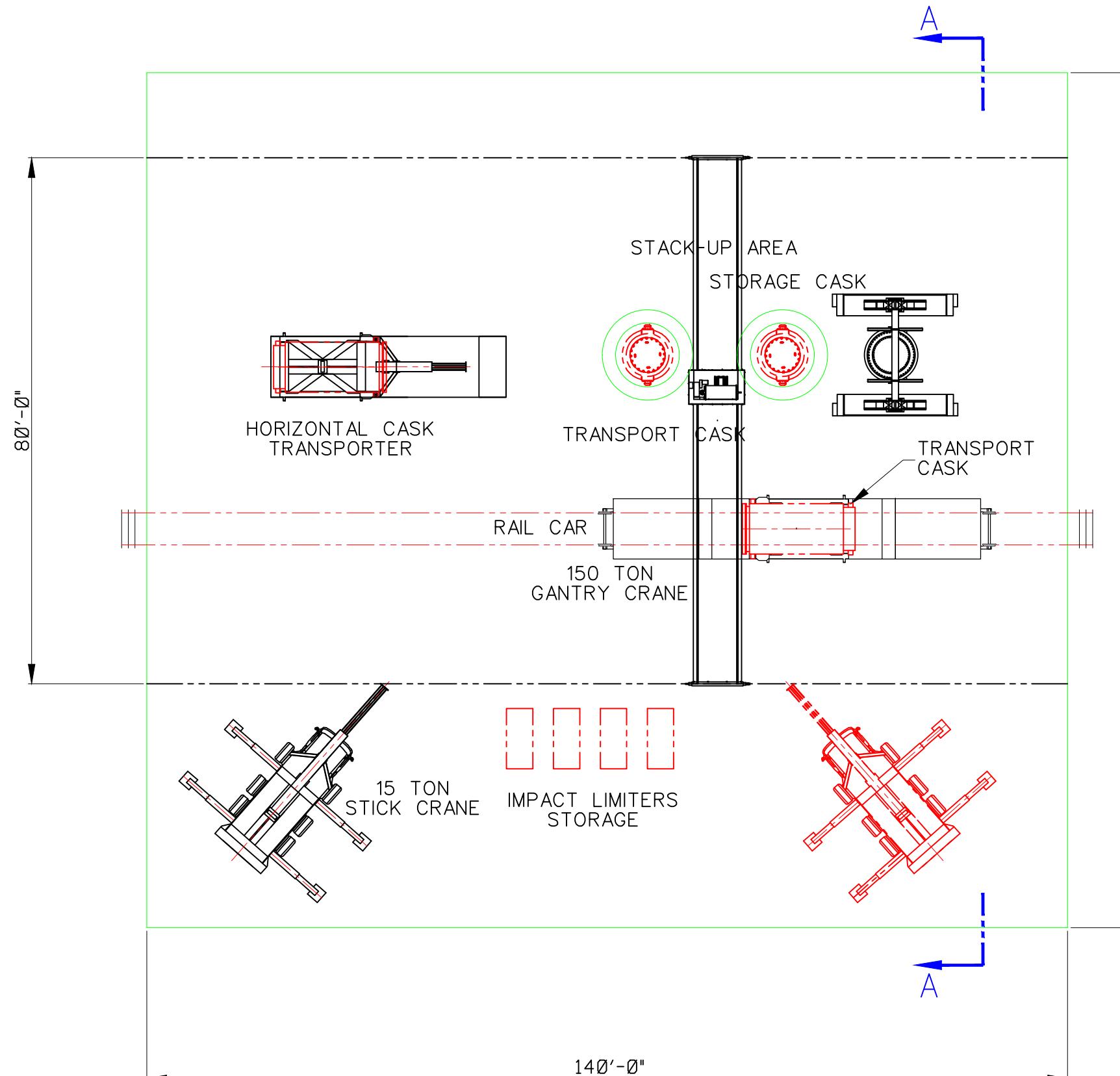
SECTION A-A



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CASK HANDLING PAD-ELEVATION-BASIC

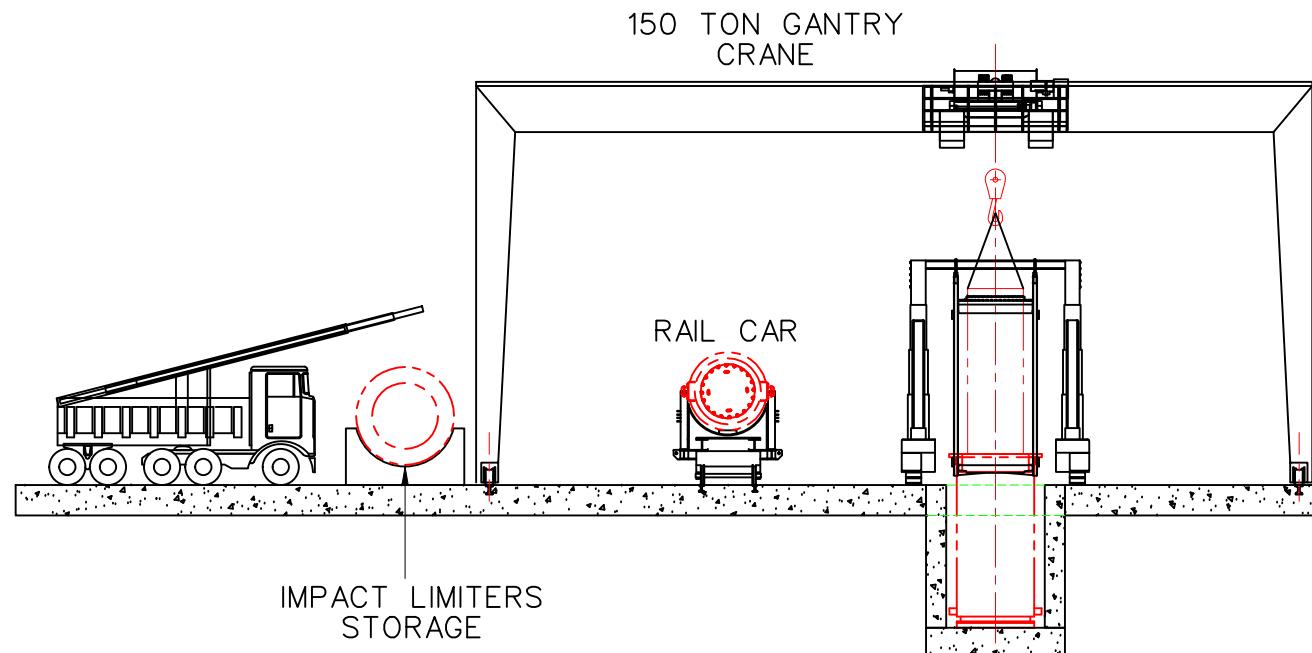
STUDY #2-ALTERNATIVE CASK HANDLING METHODS | T016-S2-SOPS-CHB-8



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CASK HANDLING PIT-PLAN-BASIC

STUDY #2-ALTERNATIVE CASK HANDLING METHODS | T016-S2-SOPS-CHB-9



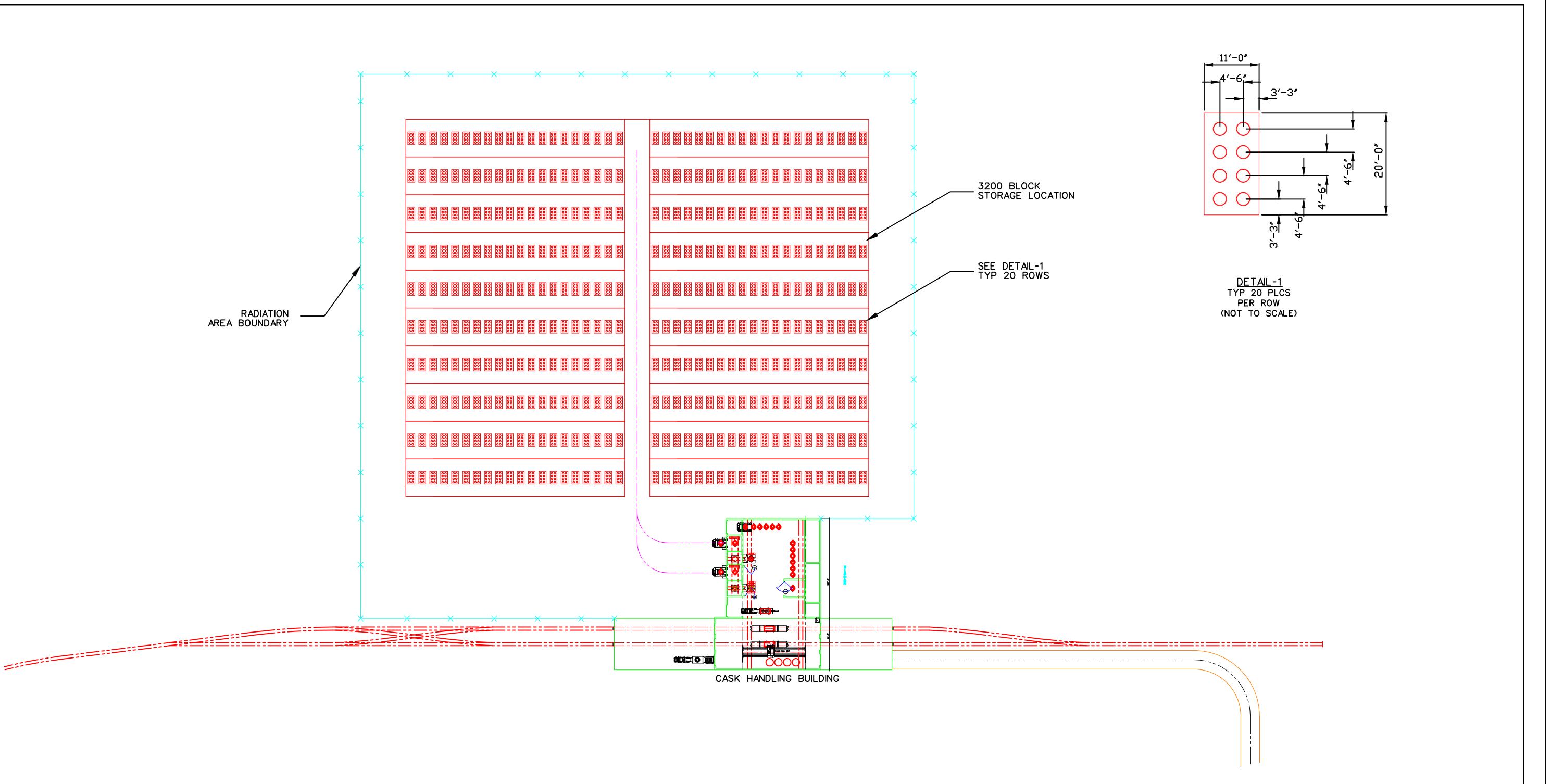
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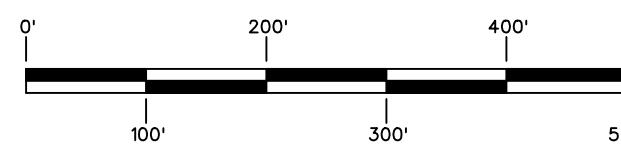
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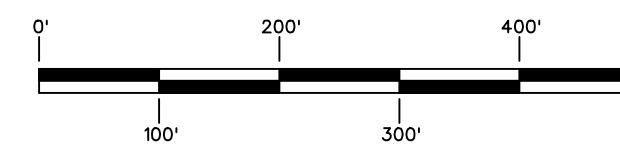
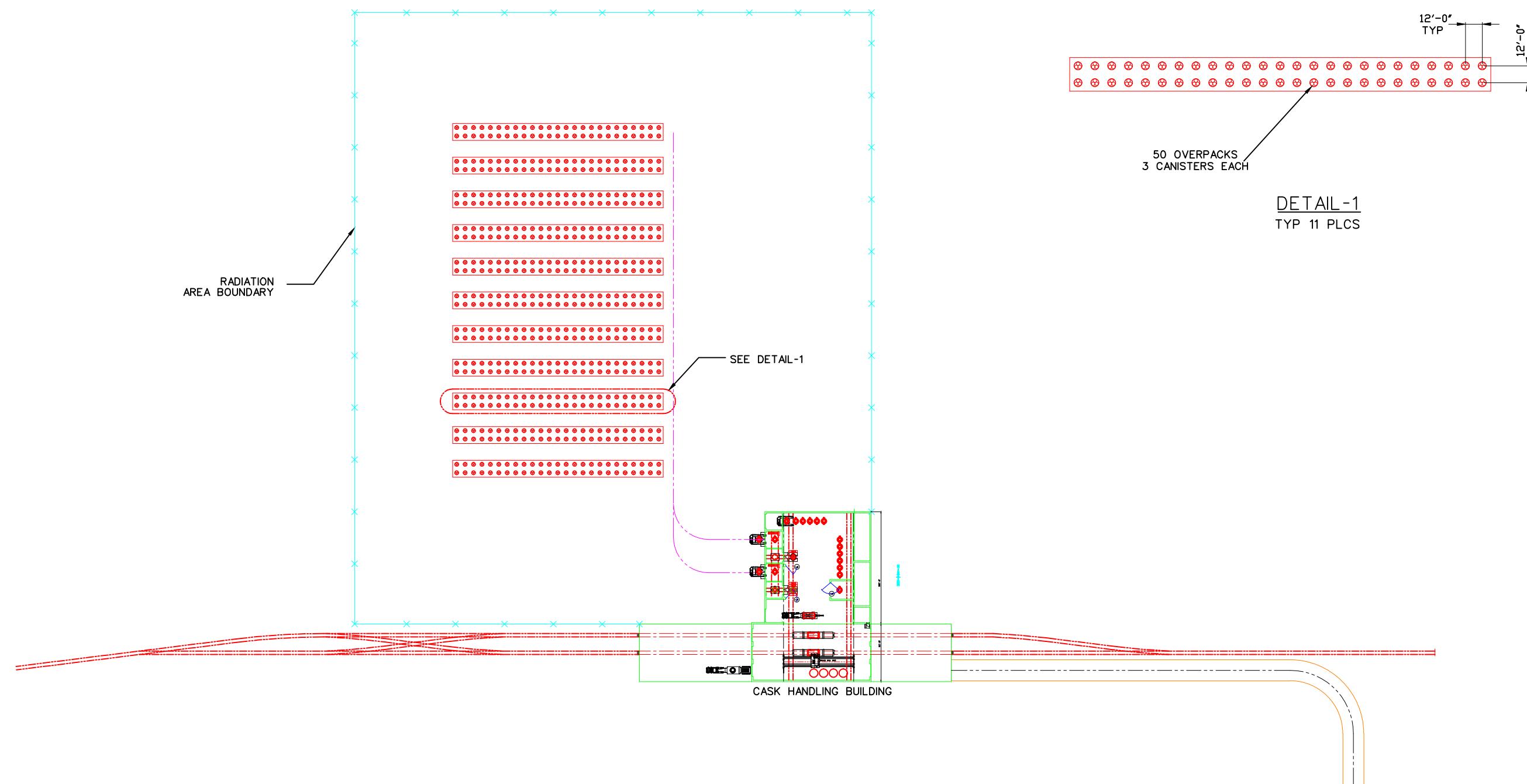
CASK HANDLING PIT-ELEVATION-BASIC

STUDY #2-ALTERNATIVE CASK HANDLING METHODS T016-S2-SOPS-CHB-10



 Environmental & Infrastructure Inc. IA ASSOCIATES	 Exelon	 HOLTEC INTERNATIONAL	U.S. Department of Energy Task Order #16 Development of Consolidated Storage Facility Design Concepts	
PARTIAL SITE PLAN-PAD-SMALL STAD STORAGE				
5000 MTU PILOT ISF-SPADA				T016-S3-SPAD-SP-1



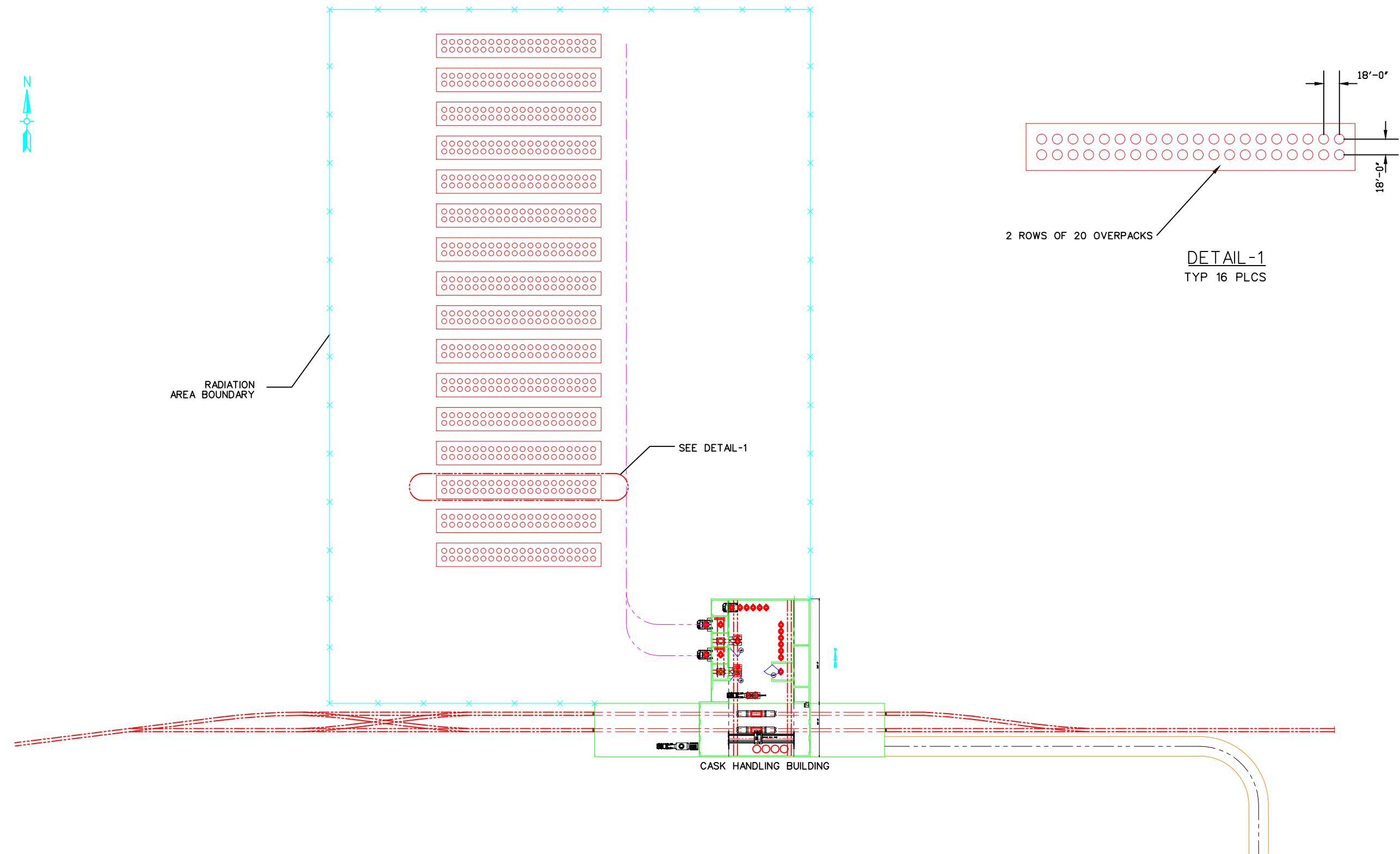


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PARTIAL SITE PLAN-PAD-SMALL STAD-MULTI CAN STORAGE

5000 MTU PILOT ISF-SPADA

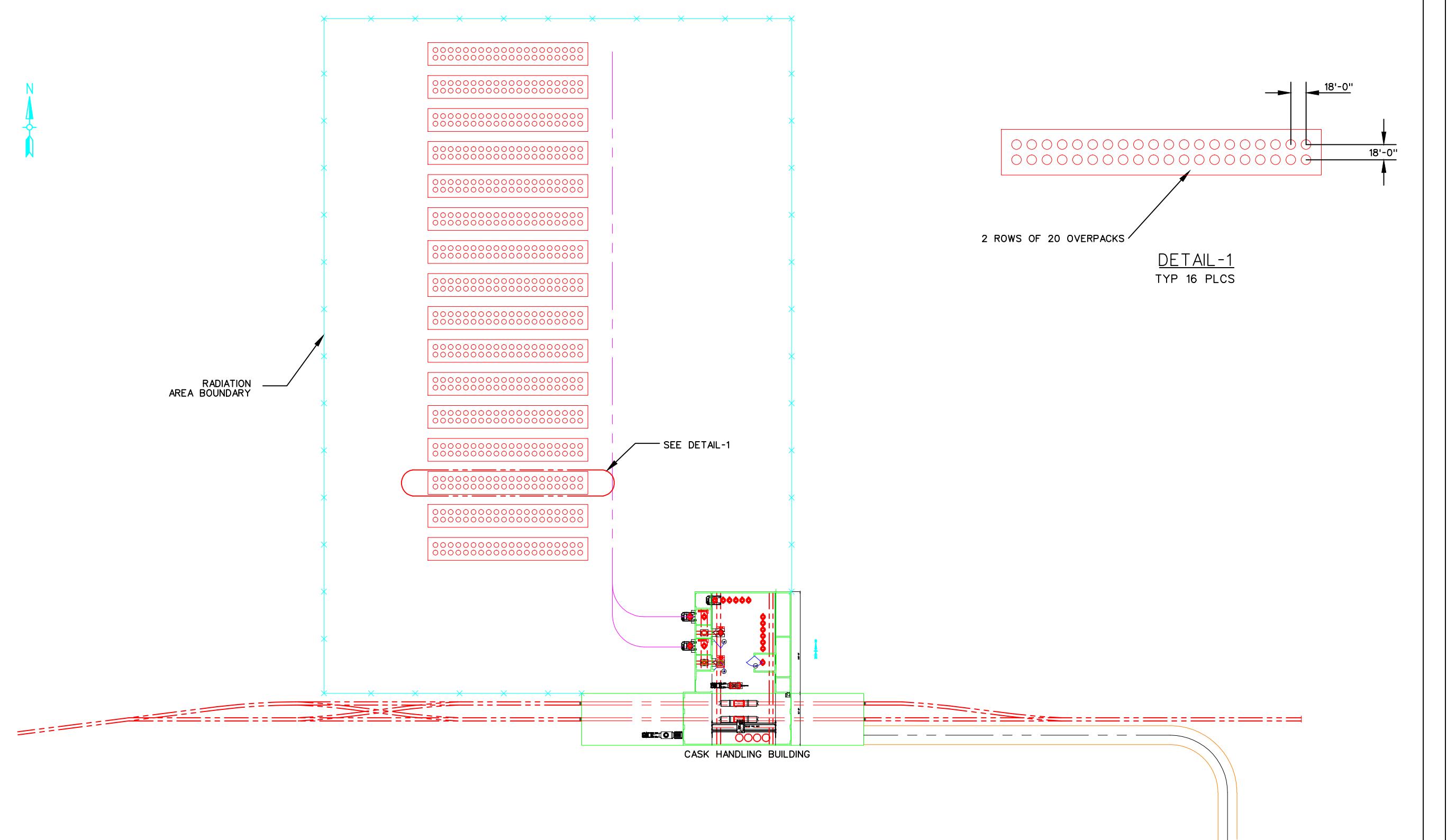
TO16-S3-SPAD-SP-2



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PARTIAL SITE PLAN-PAD-MEDIUM STAD

5000 MTU PILOT ISF-SPADB T016-S3-SPAD-SP-3



0'
 100'
 200'
 300'
 400'
 500'



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PARTIAL SITE PLAN-PAD-LARGE STAD

5000 MTU PILOT ISF-SPADC	T016-S3-SPAD-SP-4
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NUISANCE
FENCE

17'-6"

1180'-0"

236'-0"

RADIATION
AREA BOUNDARY

446'-0"

70'-0"

446'-0"

PROTECTED AREA BOUNDARY

3250 UNDERGROUND
STORAGE LOCATIONS

CASK HANDLING BUILDING

0' 100' 200' 300' 400' 500'

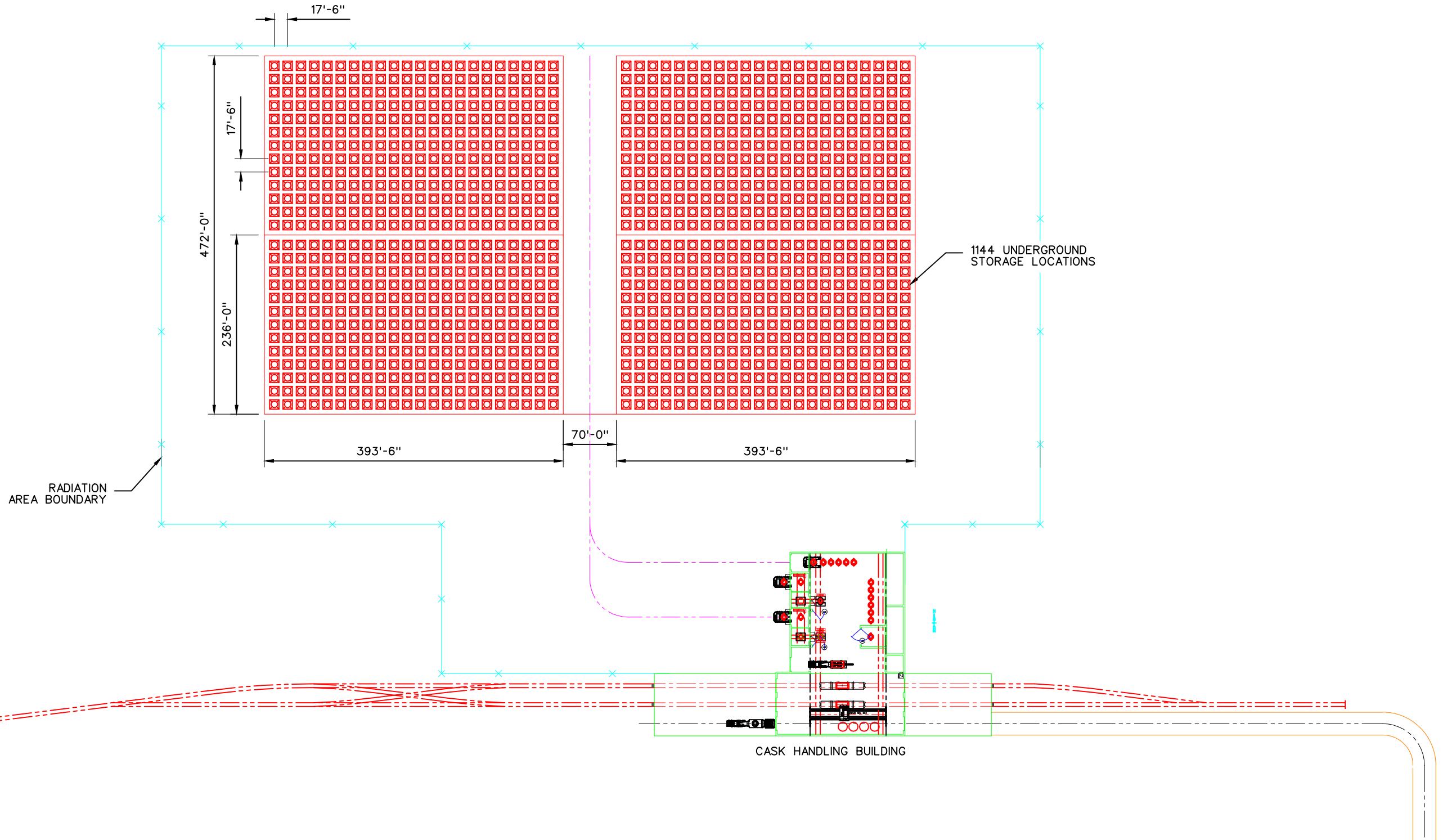


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PARTIAL SITE PLAN-UNDERGROUND-SMALL STAD

5000 MTU PILOT ISF-SUGSA

T016-S3-SUGS-SP-5



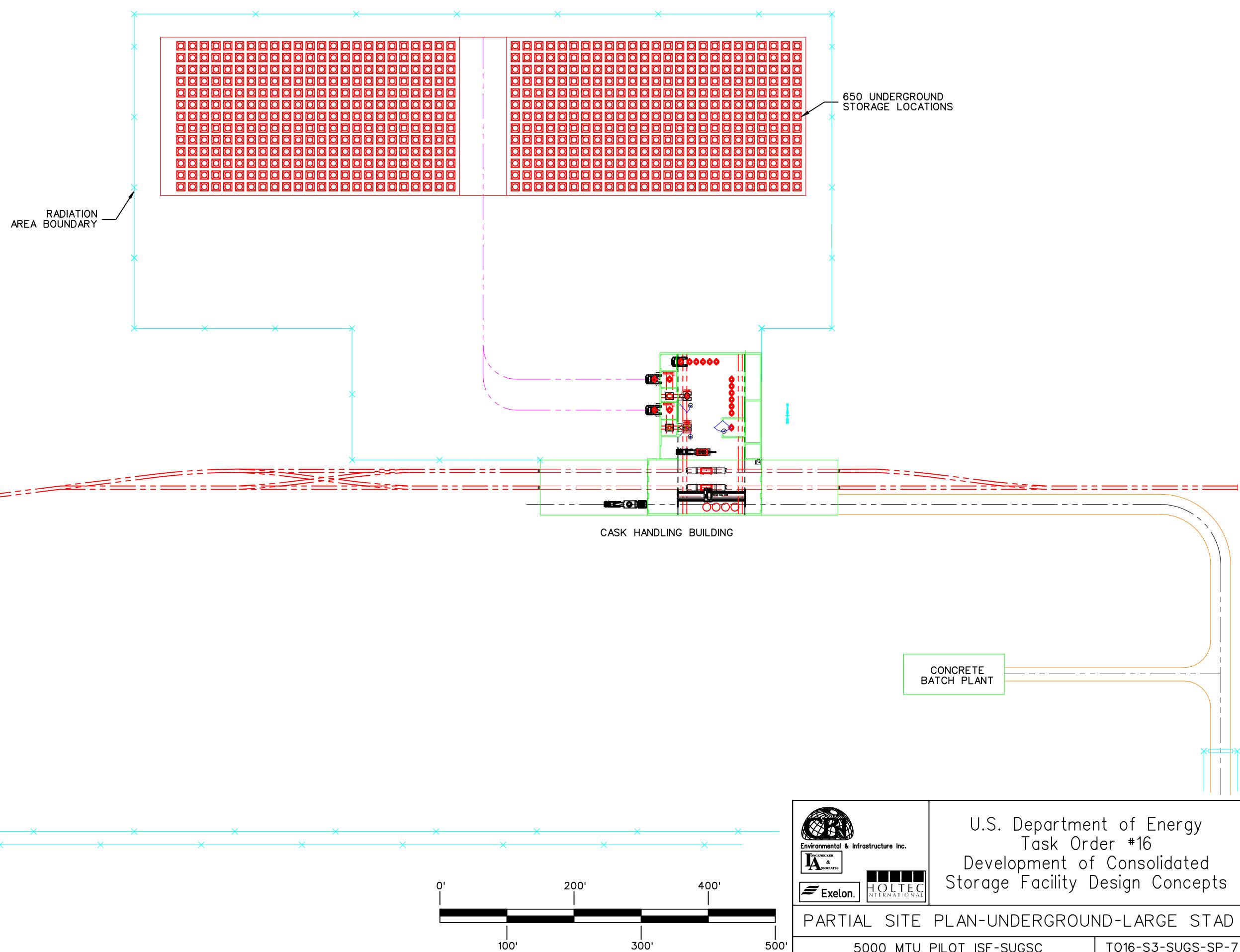
0'
100'
200'
300'
400'
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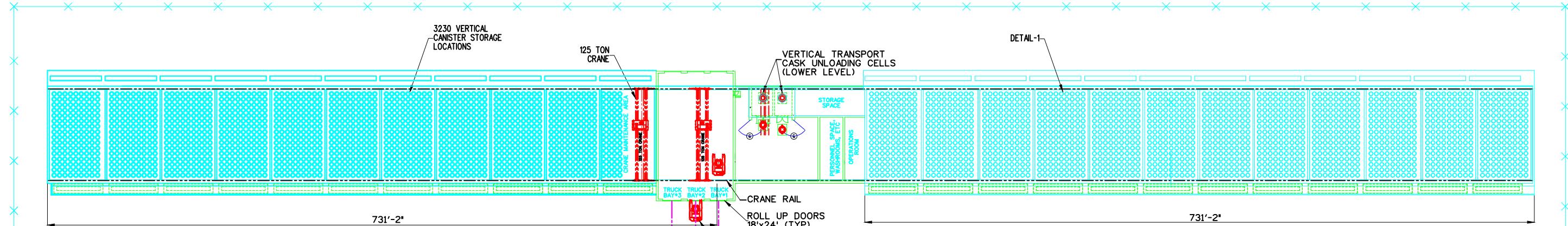


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PARTIAL SITE PLAN-UNDERGROUND-MEDIUM STAD

5000 MTU PILOT ISF-SUGSB T016-S3-SUGS-SP-6





RADIATION
AREA BOUNDARY

144 VERTICAL
CANISTER STORAGE
LOCATIONS PER VAULT

DETAIL-1
TYP

CASK HANDLING BUILDING

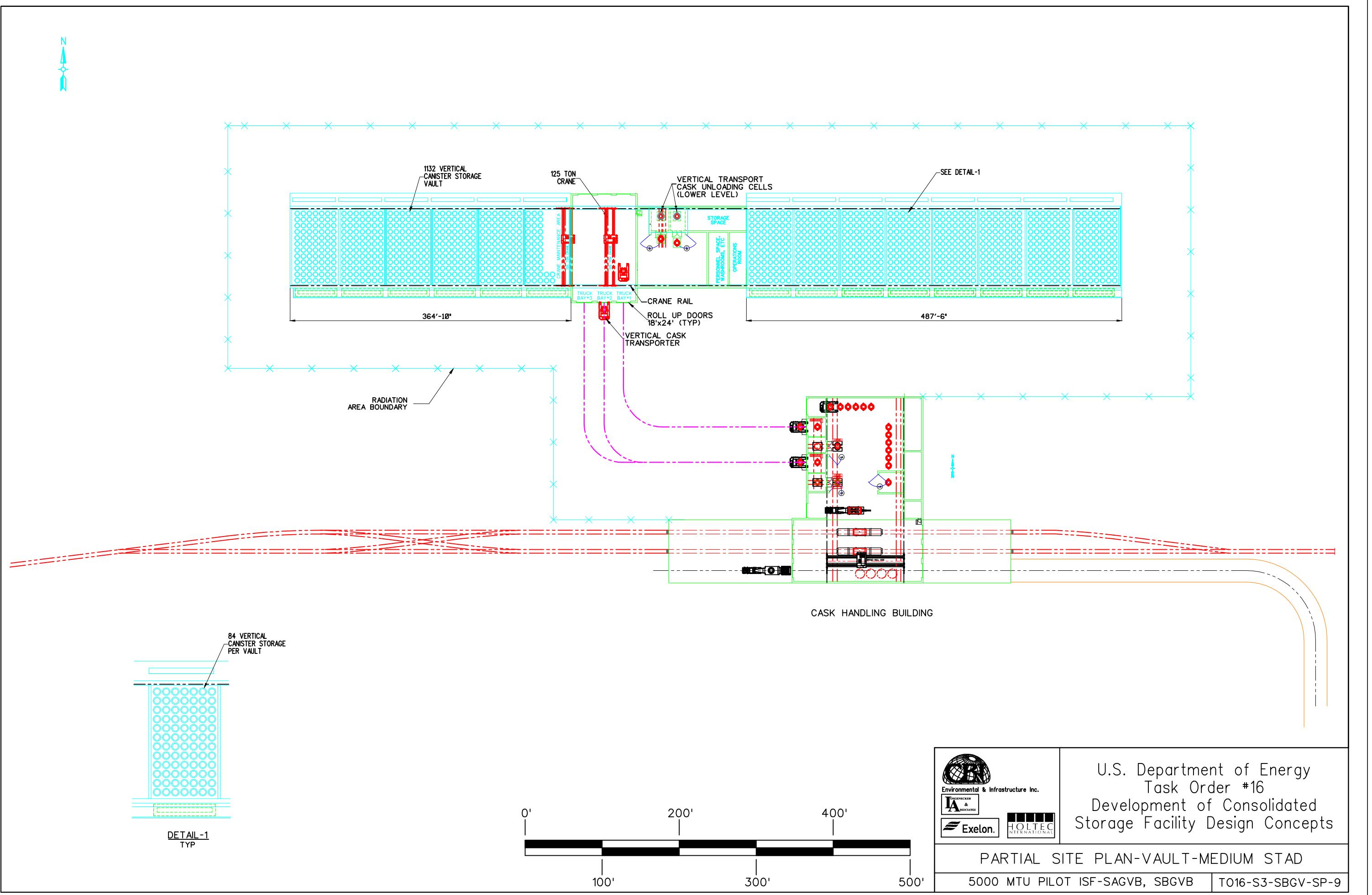
0'
100'
200'
300'
400'
500'



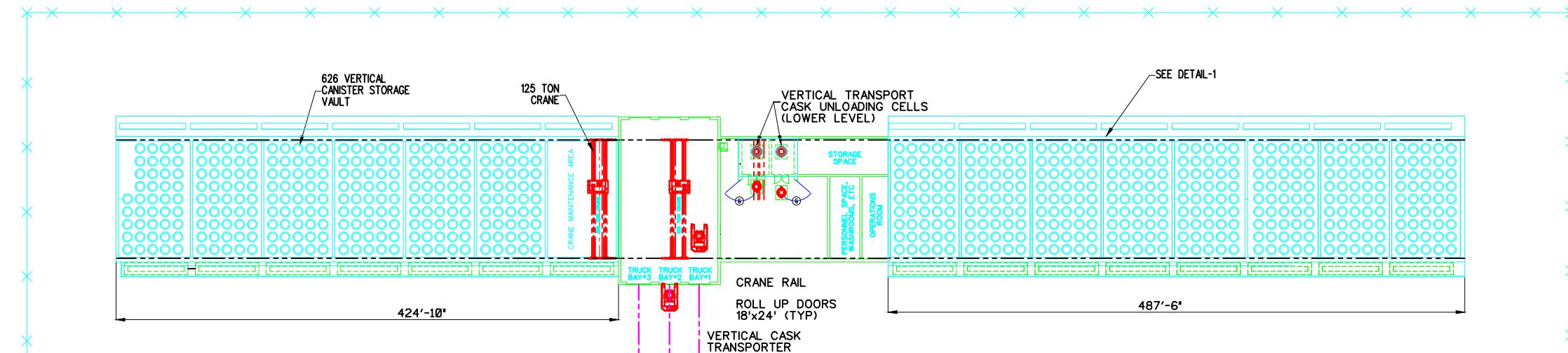
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Storage Facility Design Concepts

PARTIAL SITE PLAN-VAULT-SMALL STAD

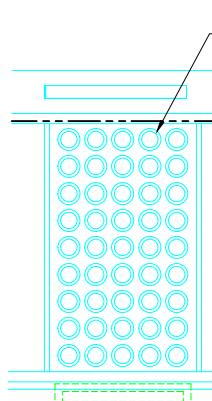
5000 MTU PILOT ISF-SAGVA, SBGVA | T016-S3-SBGV-SP-8



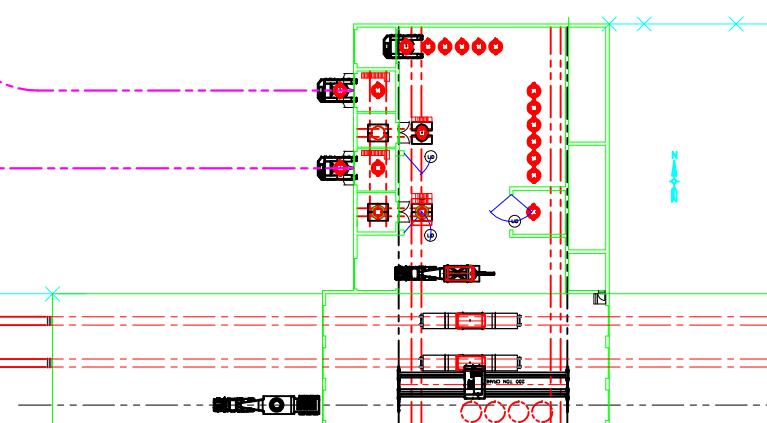
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RADIATION
AREA BOUNDARY



DETAIL-1
TYP



CASK HANDLING BUILDING

0'
100'
200'
300'
400'
500'



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PARTIAL SITE PLAN-VAULT-LARGE STAD

5000 MTU PILOT ISF-SAGVC, SBGVC | T016-S3-SBGV-SP-10