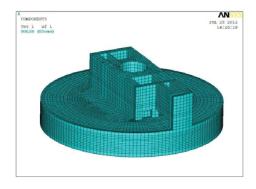
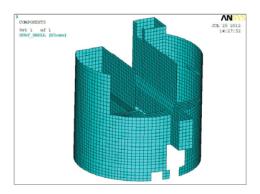


Figure 3.8A-23 Full FE Model for the RCB Internal Structuer

3.8A-102 Rev. 0



(a) Solid Element Model (PSW, IRWST, and Fill Concrete)



(b) Shell Element Model (SSW)



(c) Beam Element Model (RCS)

Figure 3.8A-24 Solid, Shell, And Beam Element Model for RCB Internal Structure

3.8A-103 Rev. 0

Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-25 Location of Critical Sections of the AB at EL. 100'-0"

3.8A-104 Rev. 0

Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-26 Location of Critical Sections of the AB at EL. 120'-0"

3.8A-105 Rev. 0

Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-27 Location of Critical Sections of the AB at EL. 137'-6"

3.8A-106 Rev. 0

Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-28 Location of Critical Sections of the AB at EL. 156'-0"

3.8A-107 Rev. 0

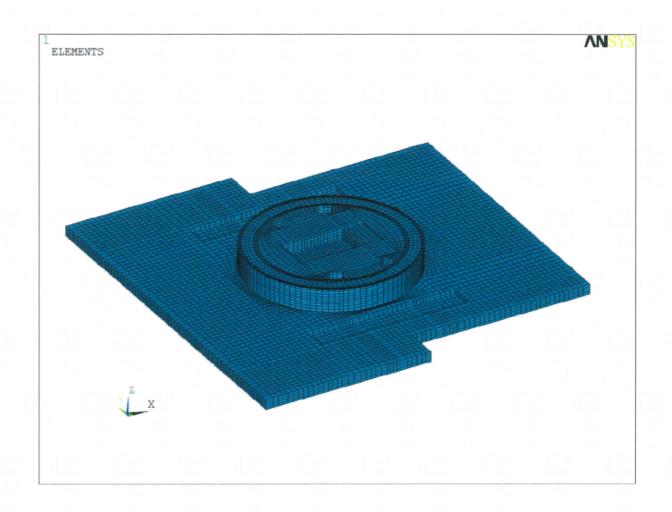


Figure 3.8A-29 Solid Element Model of NI Common Basemat

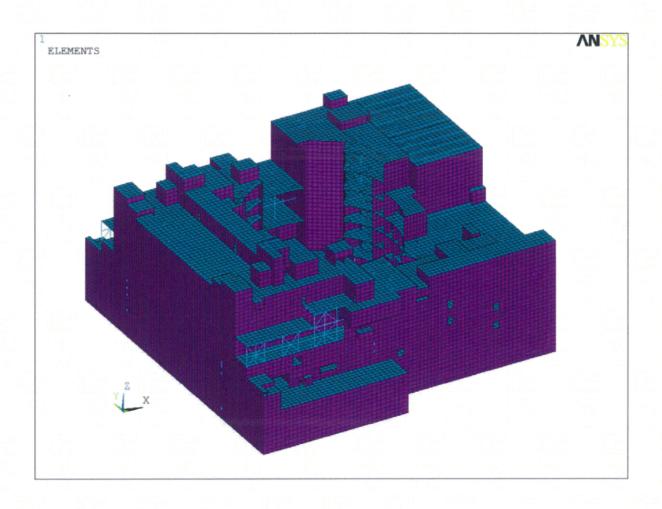


Figure 3.8A-30 3-D View of FE Model for AB Superstructure

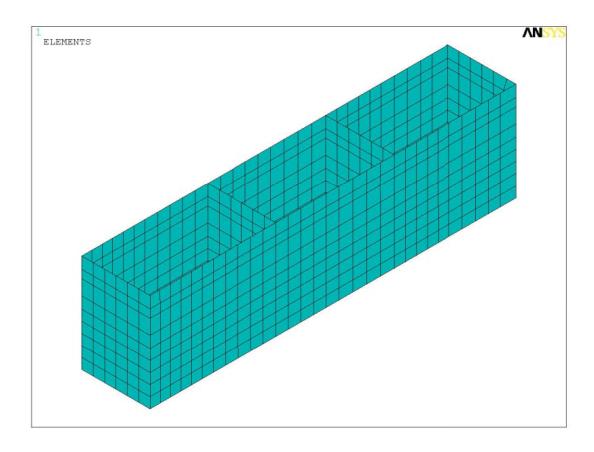


Figure 3.8A-31 Components of FE Model For Rectangular AFW Tank in AB

3.8A-110 Rev. 0

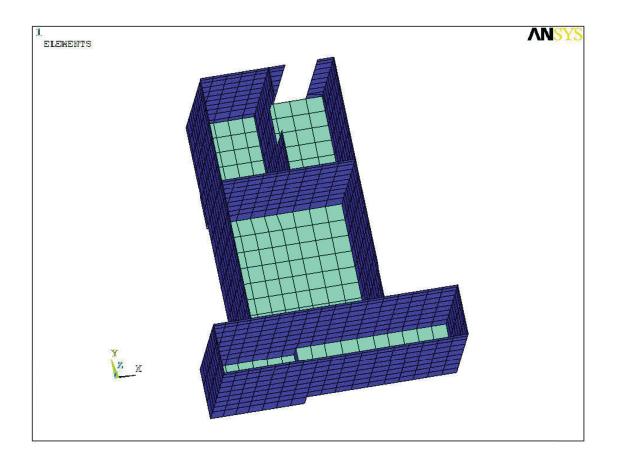


Figure 3.8A-32 Partial FE Model for FHA Pools in AB

3.8A-111 Rev. 0

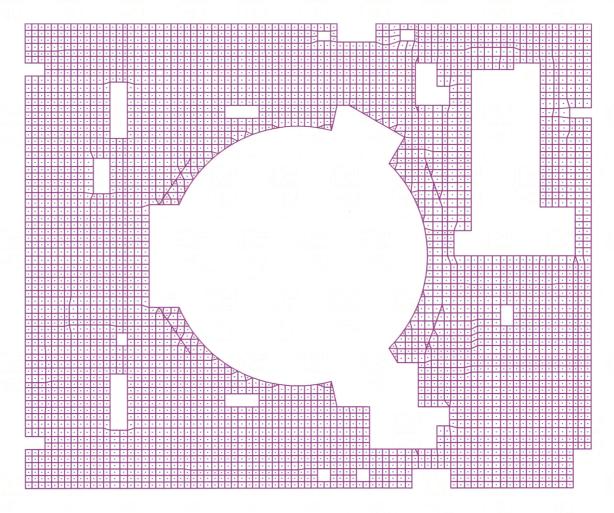


Figure 3.8A-33 FE Model for AB Slab Design at EL. 157'-6"

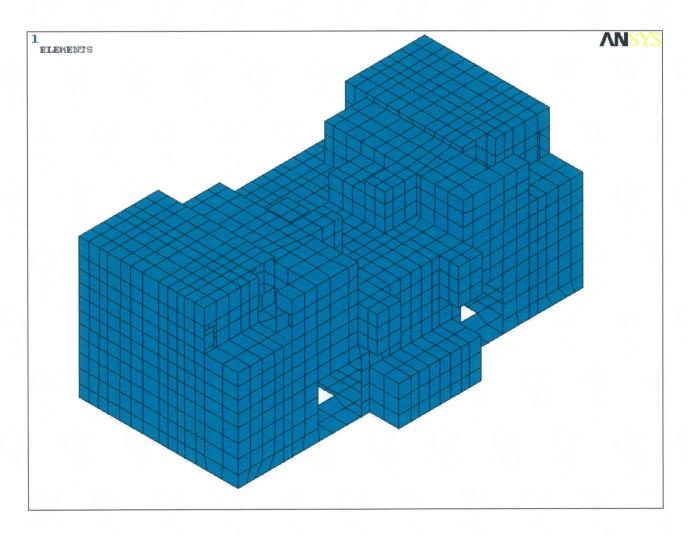


Figure 3.8A-34 Full FE Model for the EDG Building

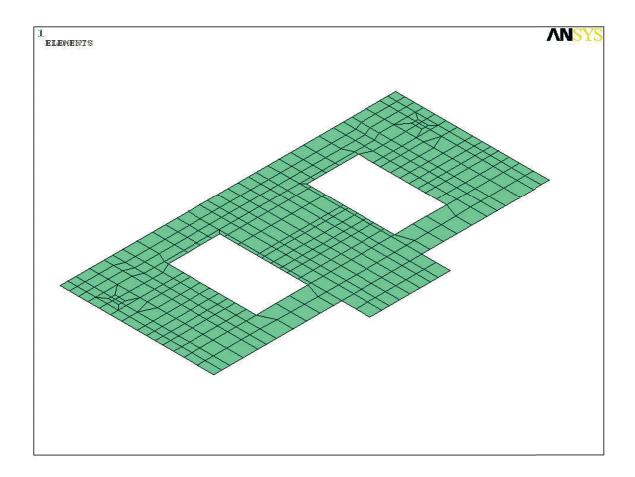


Figure 3.8A-35 FE Model For the EDG Building Basemat

3.8A-114 Rev. 0

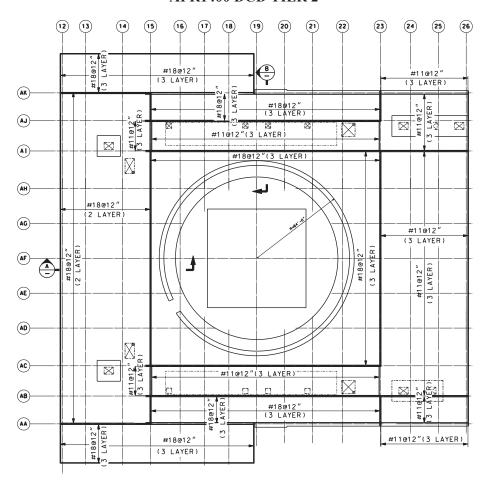


Figure 3.8A-36 Reinforcement Arrangement of the AB Basemat

3.8A-115 Rev. 0

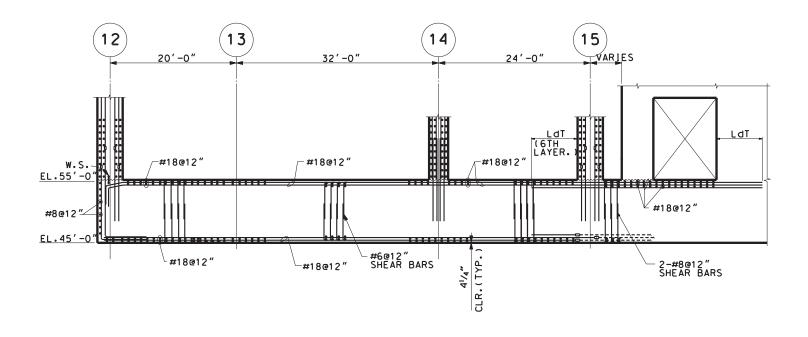


Figure 3.8A-37 Typical Reinforcement of the AB Basemat (Section A)

3.8A-116 Rev. 0

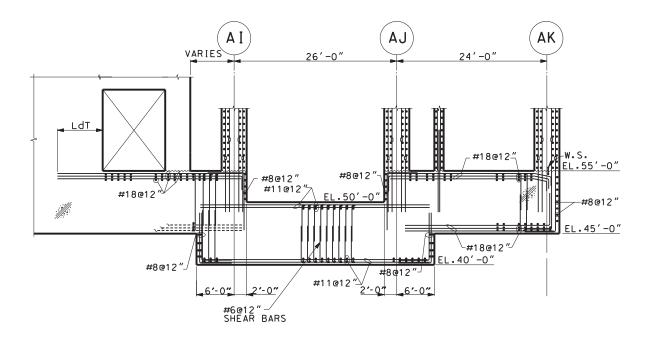
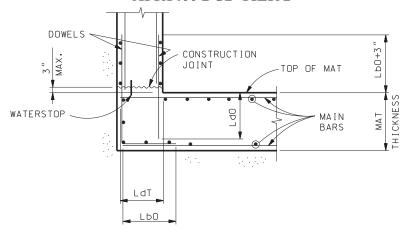
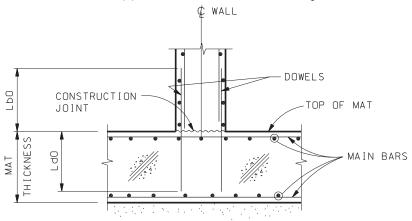


Figure 3.8A-38 Typical Reinforcement of the AB Basemat (Section B)

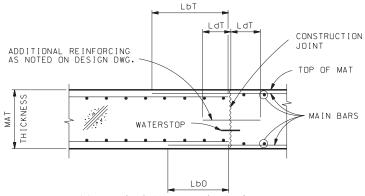
3.8A-117 Rev. 0



(a) Exterior Wall with Waterstop



(b) Interior Wall



(c) Typical Construction Joint

Note: L_{dT} - development length for top horizontal bar (reinforcement location factor = 1.3, [ACI 349 12.2.4)]*

 L_{bT} - lap splice length for top horizontal bar

 L_{dO} - development length for other bars

 L_{bO} - lap splice length for other bars

Figure 3.8A-39 Typical Reinforcement Details of Basemat 3.8A-118

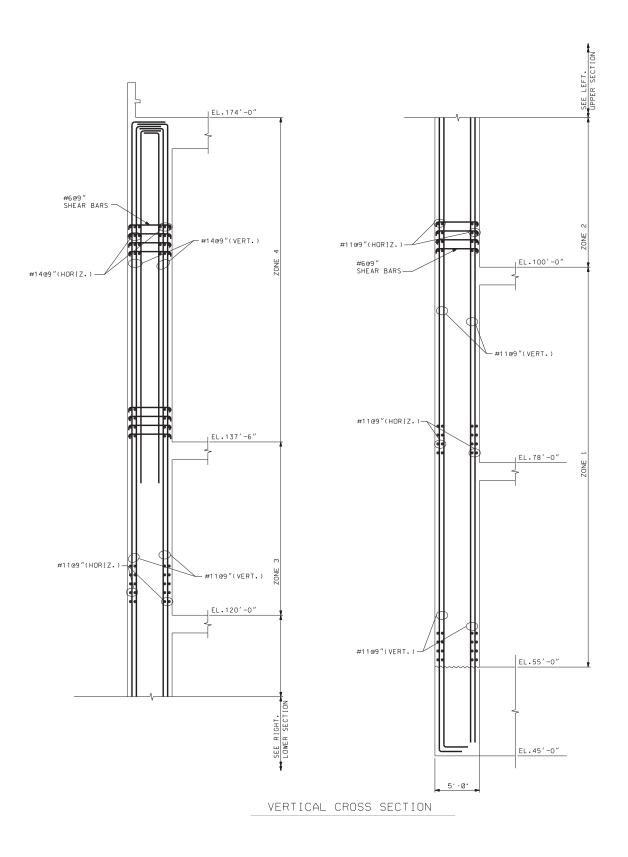
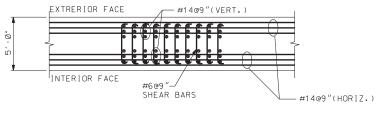
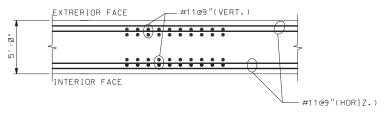


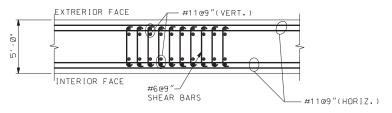
Figure 3.8A-40 Reinforcement Arrangement of the AB MSIV House Wall (Section 1)
3.8A-119 Rev. 0



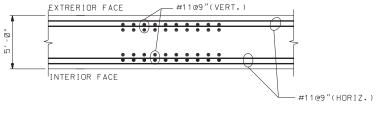
ZONE 4 [EL.137'-6" TO EL.174'-0"]



ZONE 3 [EL.120'-0" TO EL.137'-6"]



ZONE 2 [EL.100'-0" TO EL.120'-0"]

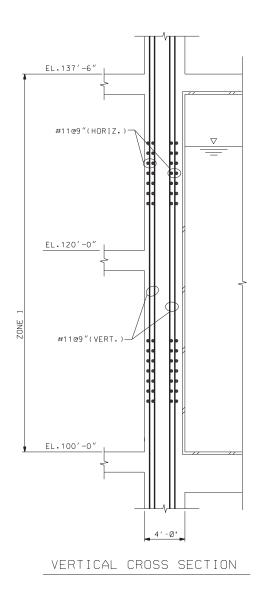


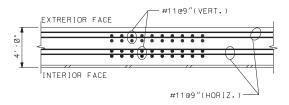
ZONE 1 [EL.55'-0" TO EL.100'-0"]

HORIZONTAL CROSS SECTION

Figure 3.8A-41 Reinforcement Arrangement of the AB MSIV House Wall (Section 2)

3.8A-120 Rev. 0





ZONE 1 [EL.100'-0" TO EL.137'-6"]
HORIZONTAL CROSS SECTION

Figure 3.8A-42 Reinforcement Arrangement of the AB AFWST Wall

3.8A-121 Rev. 0

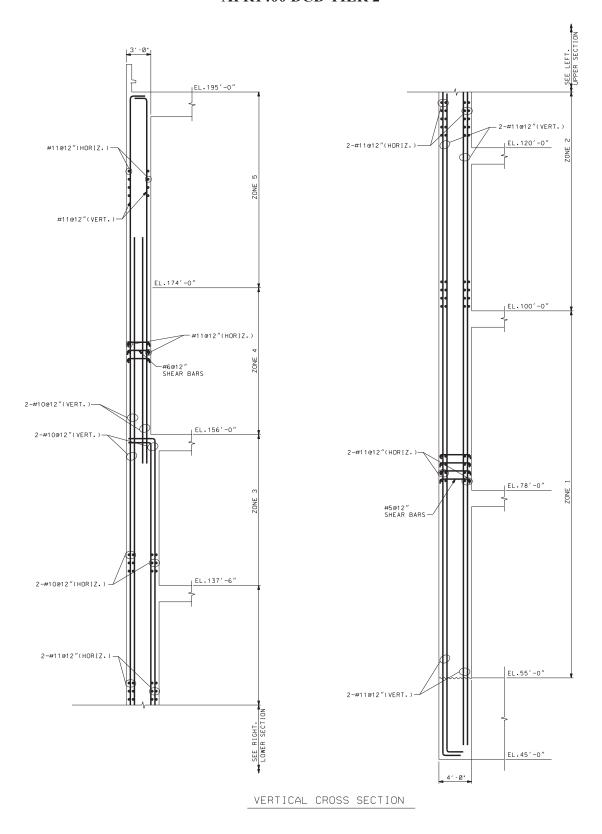
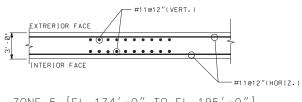
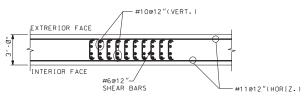


Figure 3.8A-43 Reinforcement Arrangement of the AB MCR Wall (Section 1)

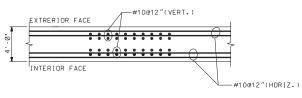
3.8A-122 Rev. 0



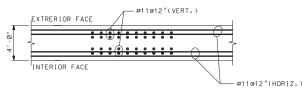
ZONE 5 [EL.174'-0" TO EL.195'-0"]



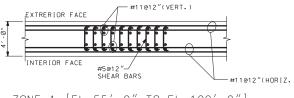
ZONE 4 [EL.156'-0" TO EL.174'-0"]



ZONE 3 [EL.137'-6" TO EL.156'-0"]



ZONE 2 [EL.100'-0" TO EL.137'-6"]



ZONE 1 [EL.55'-0" TO EL.100'-0"]

HORIZONTAL CROSS SECTION

Figure 3.8A-44 Reinforcement Arrangement of the AB MCR Wall (Section 2)

3.8A-123 Rev. 0

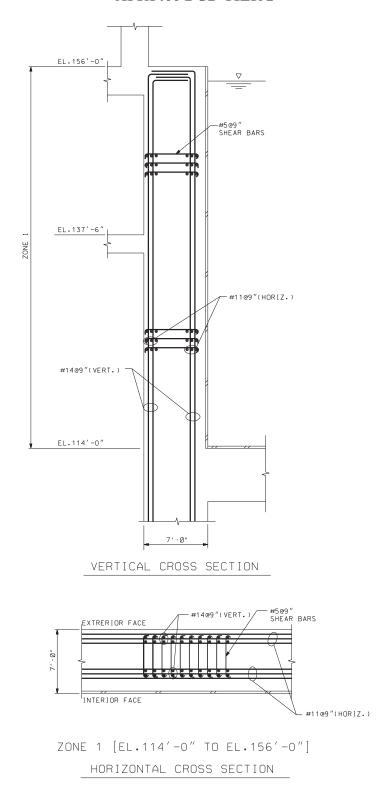
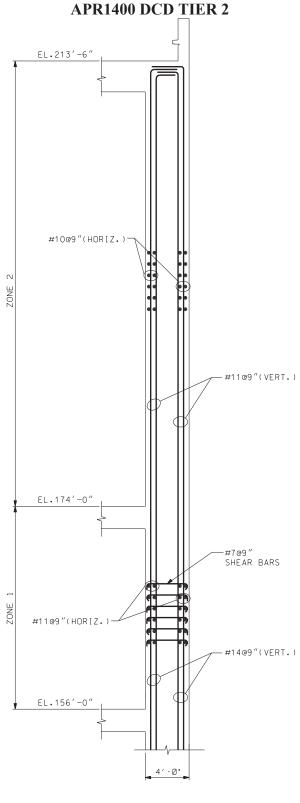


Figure 3.8A-45 Reinforcement Arrangement of the AB SFP Wall

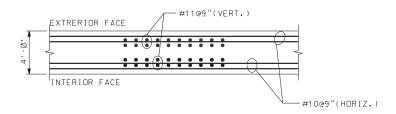
3.8A-124 Rev. 0



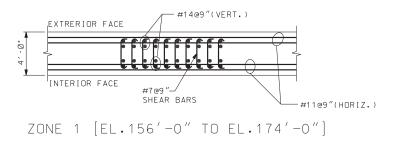
VERTICAL CROSS SECTION

Figure 3.8A-46 Reinforcement Arrangement of the AB FHA Wall (Section 1)

3.8A-125 Rev. 0



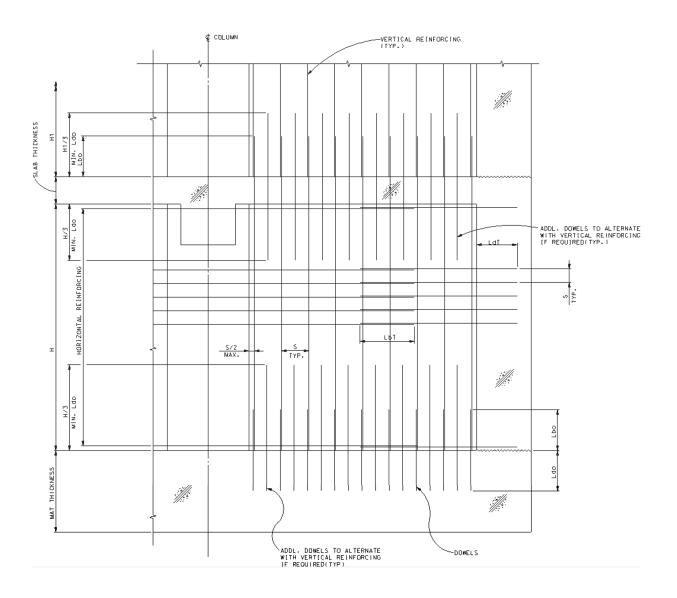
ZONE 2 [EL.174'-0" TO EL.213'-6"]



HORIZONTAL CROSS SECTION

Figure 3.8A-47 Reinforcement Arrangement of the AB FHA Wall (Section 2)

3.8A-126 Rev. 0



Note: L_{dT} - development length for top horizontal bar (reinforcement location factor = 1.3, [ACI 349 12.2.4)]*

 L_{bT} - lap splice length for top horizontal bar

 $L_{\text{\tiny dO}}$ - development length for other bars

 $L_{\mbox{\scriptsize bO}}$ - lap splice length for other bars

Figure 3.8A-48 Typical Shearwall Reinforcement Arrangement Detail

3.8A-127 Rev. 0

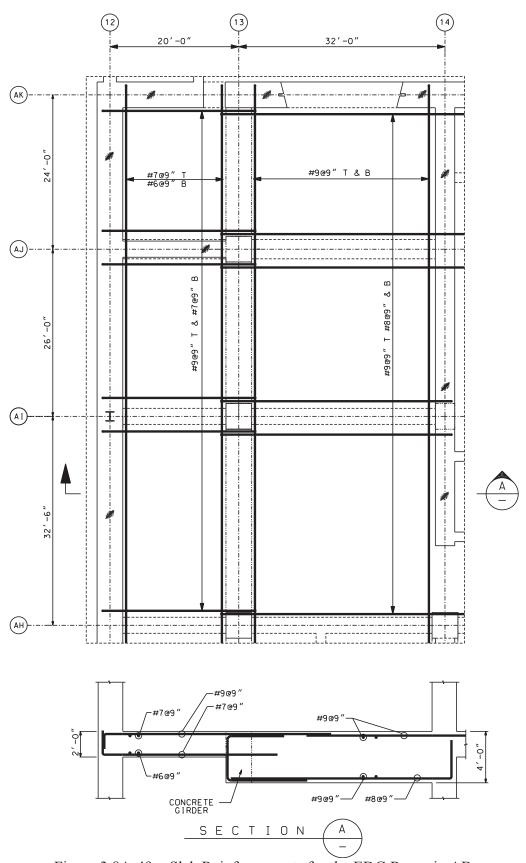


Figure 3.8A-49 Slab Reinforcements for the EDG Room in AB

3.8A-128 Rev. 0

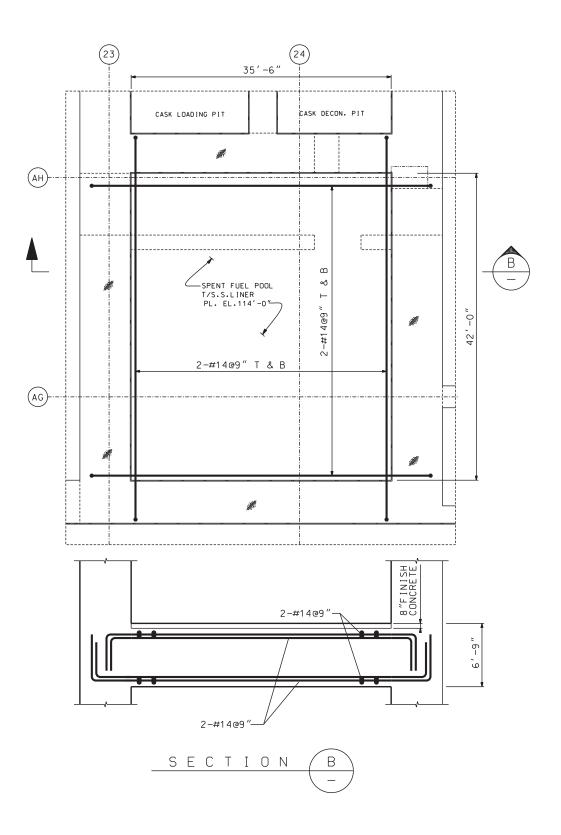


Figure 3.8A-50 Slab Reinforcements for the SFP in AB

3.8A-129 Rev. 0

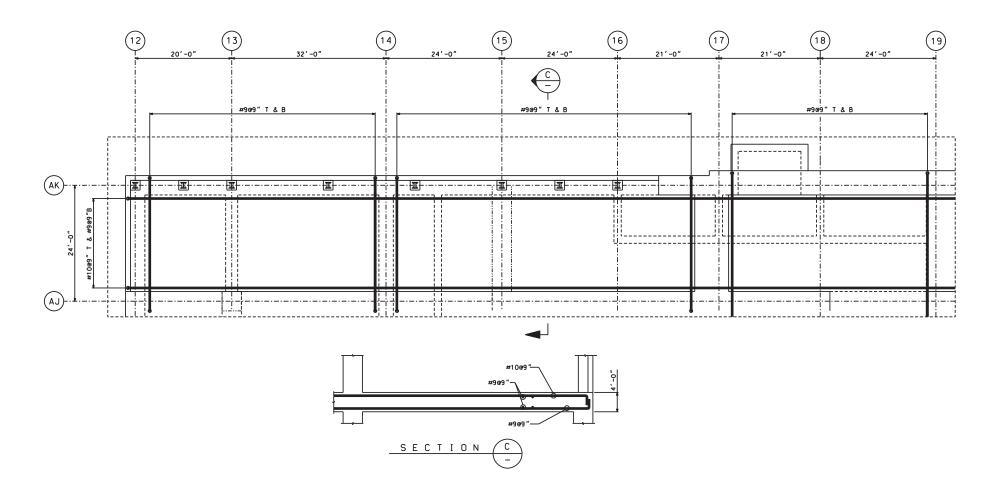
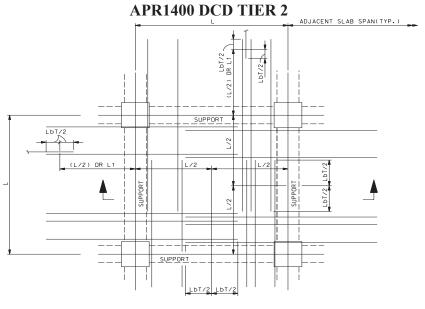
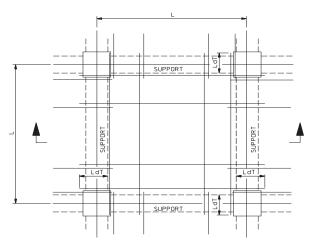


Figure 3.8A-51 Slab Reinforcements for the MSE in AB

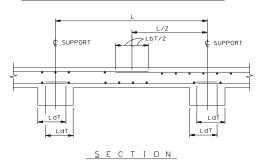
3.8A-130 Rev. 0



TYPICAL TOP LAYER REINFORCEMENT



TYPICAL BOTTOM LAYER REINFORCEMENT



Note: L_{dT} - development length for top horizontal bar (reinforcement location factor = 1.3, [ACI 349 12.2.4)]*

 L_{bT} - lap splice length for top horizontal bar

 $L_{\text{\tiny dO}}$ - development length for other bars

 L_{bO} - lap splice length for other bars

Figure 3.8A-52 Typical Slab Reinforcement Arrangement Detail

3.8A-131 Rev. 0

Security-Related Information – Withheld Under 10 CFR 2.390

Figure 3.8A-53 Location of Critical Sections of the EDG Building

3.8A-132 Rev. 0

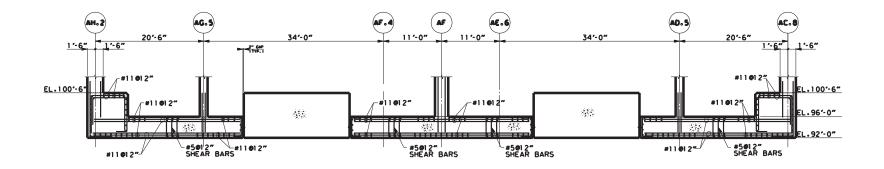


Figure 3.8A-54 Typical Reinforcement of the EDG Building Basemat

3.8A-133 Rev. 0

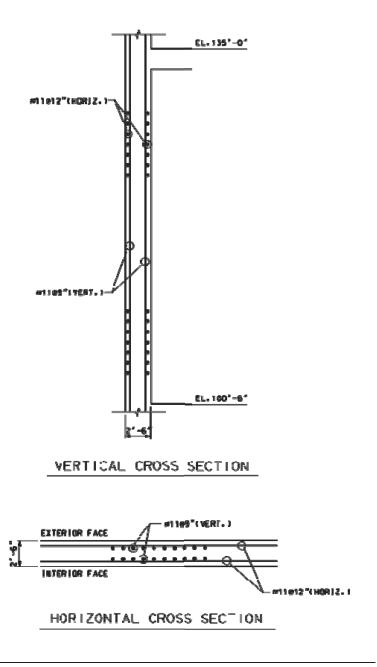


Figure 3.8A-55 Reinforcement Arrangement of Center Wall of the EDG Building

3.8A-134 Rev. 0

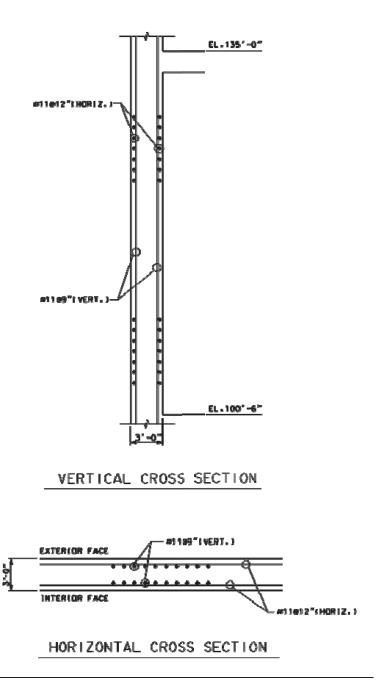


Figure 3.8A-56 Reinforcement Arrangement of the West Wall of the EDG Building

3.8A-135 Rev. 0