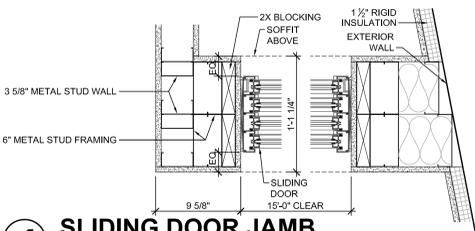
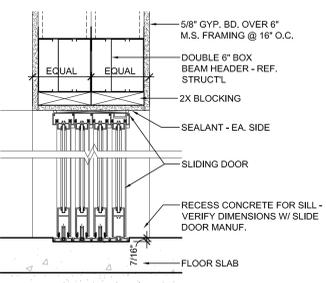


SYMBOLS LEGEND	
	EXTERIOR METAL STUD WALL W/ METAL PANEL SIDING
	INTERIOR METAL STUD WALL
	CAST-IN-PLACE CONCRETE WALL, TOP OF WALL = ELEV. 103'-4"
	8\"/>
	PRE-CAST CONCRETE PANEL WALL
	CAST IN PLACE WALL PER STRUCTURAL
	CAGEWORK (SHOWN SHADED) - SEE CAGEWORK DRAWINGS
	T.D. TRENCH DRAIN - REF. PLUMB'G
	F.D. FLOOR DRAIN - REF. PLUMB'G
	D.S. DOWNSPOUT
	WINDOW TAG - SEE WINDOW TYPES
	DOOR TAG - SEE DOOR SCHED.
	KEYNOTE - SEE KEYNOTE LEGEND
	RESTROOM KEYNOTE - SEE RESTROOM KEYNOTE LEGEND
	PARTITION TAG - SEE PARTITION SCHEDULE
	DETAIL - AS REF'D
	CEILING HEIGHT - CEILING MATERIAL
	ROOM NAME
	ROOM NUMBER
	ELEVATION TAG - AS REF'D
	COLUMN / WALL GRID LINE & TAG
	R.D. ROOF DRAIN
	O.R.D. OVERFLOW ROOF DRAIN



**1 SLIDING DOOR JAMB**  
SCALE: 1 1/2" = 1'-0"



**2 SLIDING DOOR SECTION**  
SCALE: 1 1/2" = 1'-0"

**A CONCESSIONS FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**NOTE**  
CONCESSIONS FINISH FLOOR ELEVATION 100'-0" (AS USED IN THESE 'A' SHEETS) EQUALS SITE ELEVATION 109.00 (VERIFY W/ SITE SHEETS)

**wcm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

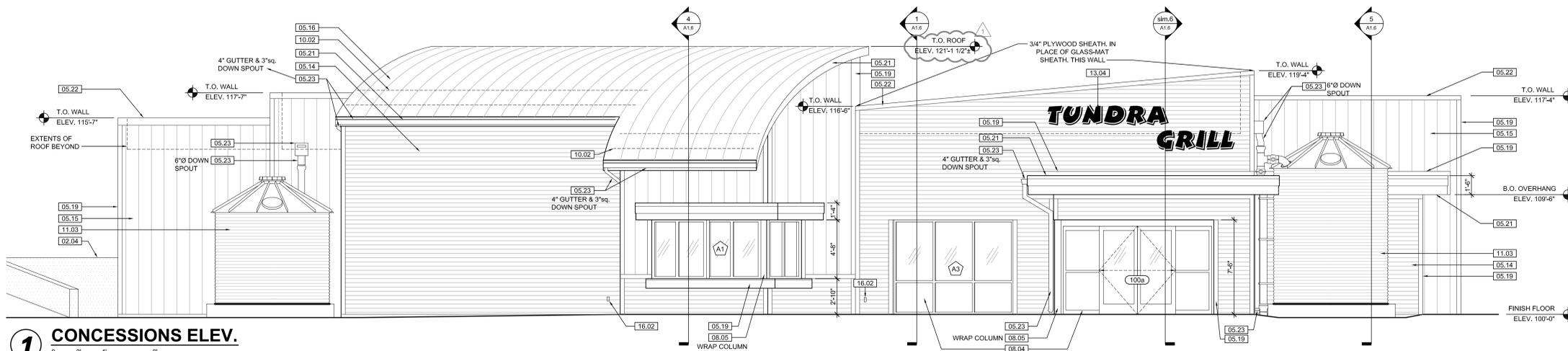
**we do more**  
**henry vilas**  
**ZOO**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Department of Public Works  
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PRINTS ISSUED  
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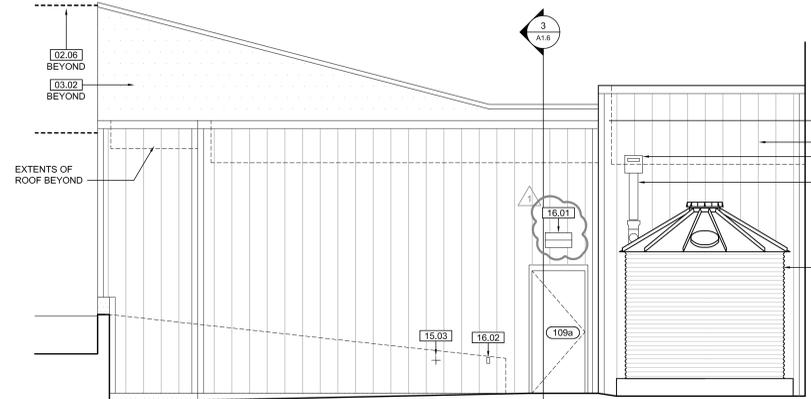
WDM No. 13046  
drawn: DS  
checked: SR  
RESTAURANT FLOOR PLAN

**A1.1**  
copyRIGHT 2013 WDM Architects P.A.



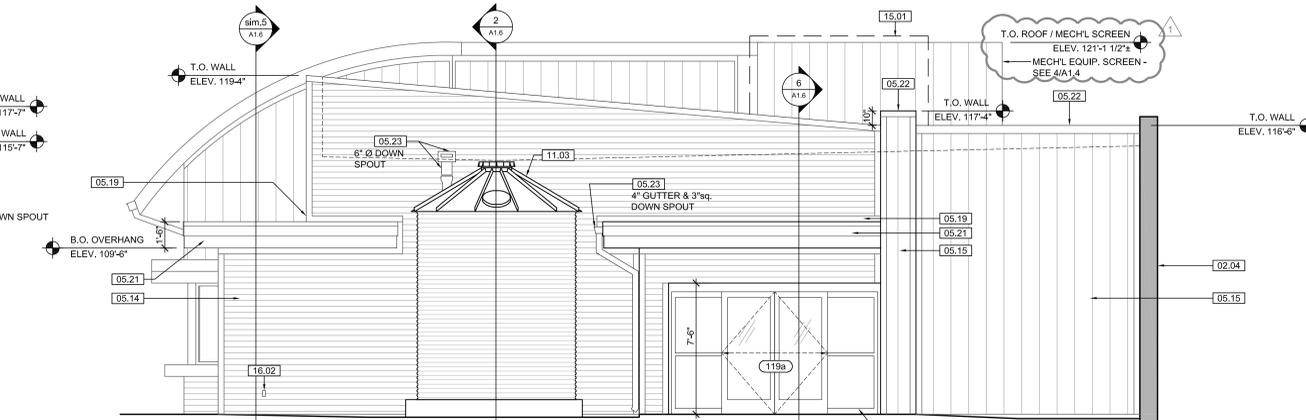
**1 CONCESSIONS ELEV.**

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



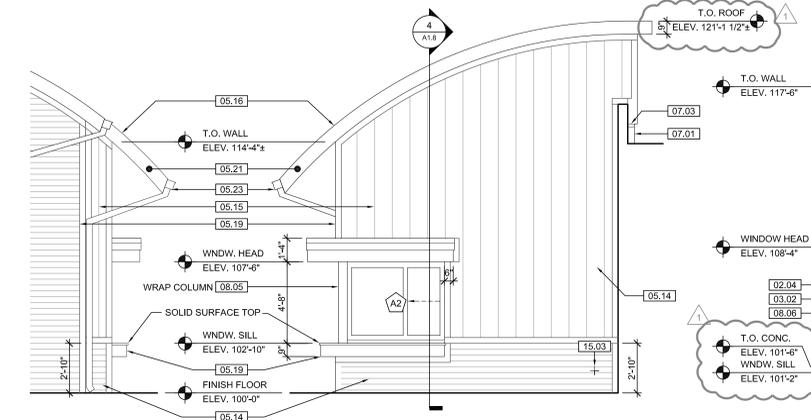
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SCALE: 1/4" = 1'-0"



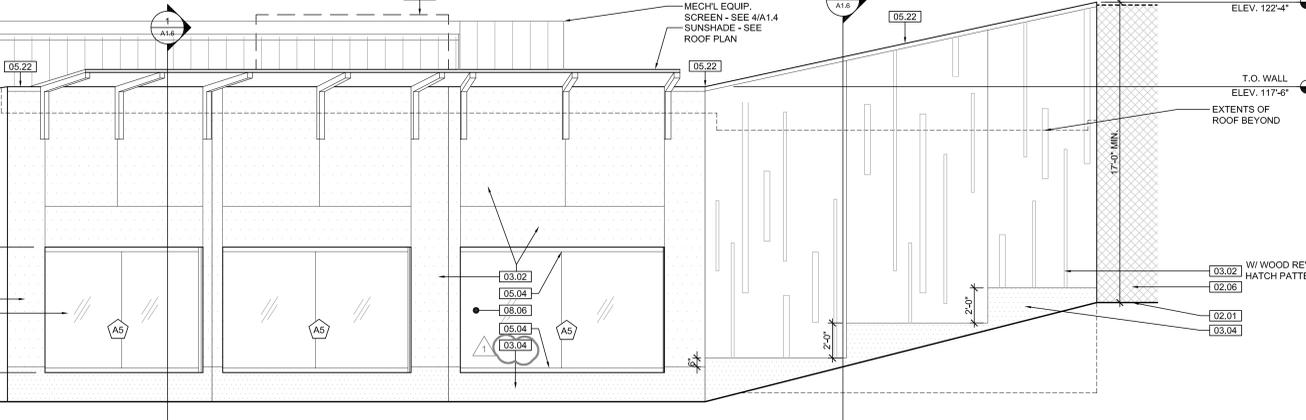
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SCALE: 1/4" = 1'-0"



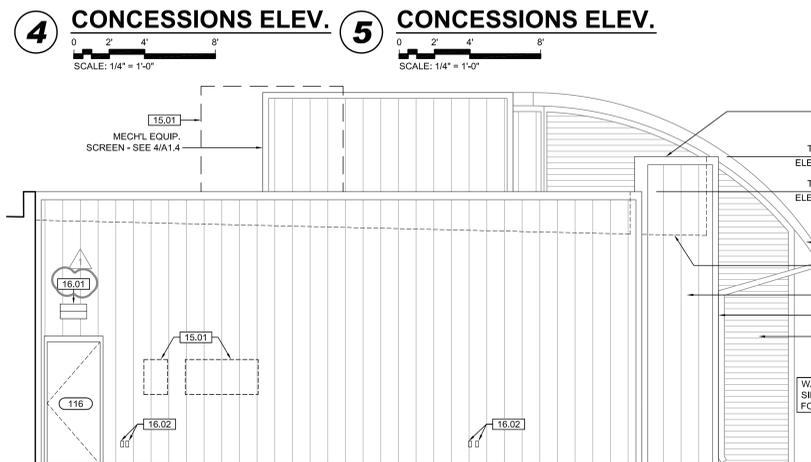
**4 CONCESSIONS ELEV.**

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



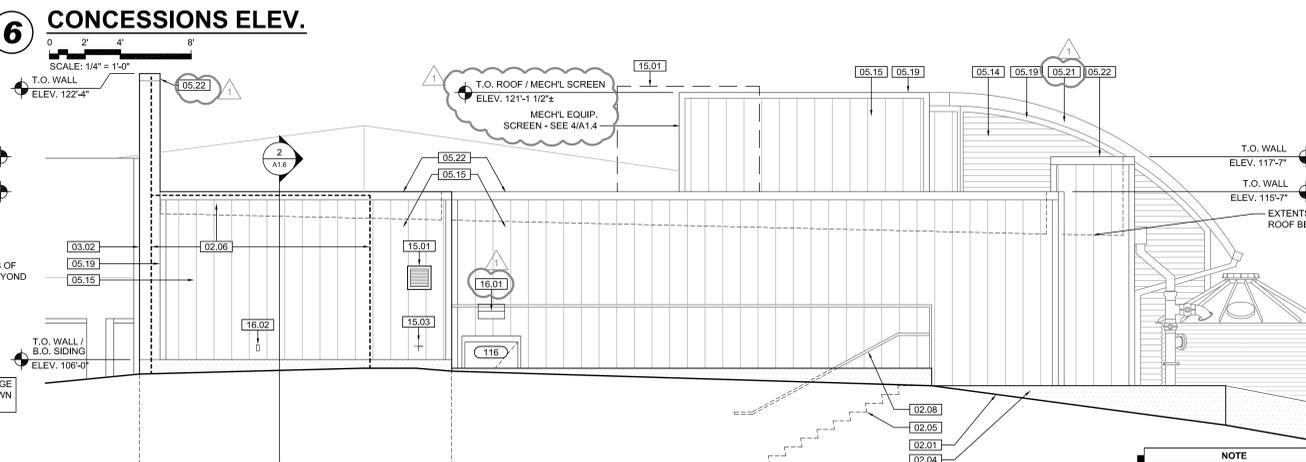
**5 CONCESSIONS ELEV.**

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



**6 CONCESSIONS ELEV.**

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



**7 CONCESSIONS ELEV.**

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



**8 CONCESSIONS ELEV.**

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

**KEYNOTE LEGEND:**  
BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS

<b>Division 01 - Existing Construction</b> 01.01 XXX	07.10 BATT INSULATION: R-19 MIN. TYPICAL, OR AS NOTED
<b>Division 02 - Site Construction</b> 02.01 GRADE - SEE SITE SHEETS	07.11 FOUNDATION INSULATION 48" BELOW GRADE
02.02 SIDEWALK OR SITE PAVING - SEE SITE SHEETS	07.12 EXPANSION JOINT
02.03 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	07.13 E.J. MATERIAL
02.04 SITE WALL - SEE SITE SHEETS	07.14 COLD APPLIED WATER PROOFING
02.05 SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	07.15 6" EXPANDABLE WATER STOP
02.06 CONTAINMENT FENCE - SEE SITE SHEETS	07.16 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
02.07 TRENCH DRAIN - SEE SITE SHEETS	07.17 SPRAY FOAM INSULATION R-30
02.08 HANDRAIL - SEE SITE SHEETS	<b>Division 08 - Doors &amp; Windows</b> 08.01 HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
<b>Division 03 - Concrete</b> 03.01 CONC. FOUNDATION / FOOTING - REF. STRUCTL.	08.02 R.F. DOOR / FRAME - SEE DOOR SCHEDULE
03.02 PRE-CAST CONCRETE WALL - REF. STRUCTL.	08.03 HOLLOW METAL WINDOW - SEE WINDOW TYPES
03.03 PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	08.04 STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
03.04 CAST-IN-PLACE CONCRETE WALL - REF. STRUCTL.	08.05 PRE-FINISHED BREAK METAL - MATCH STOREFRONT FINISH
03.05 REINF. CONC. SLAB ON GRANULAR FILL OVER VAPOR BARRIER - REF. STRUCTL & GEOTECH REPORT	08.06 GLASS / ACRYLIC - SEE WINDOW TYPES
03.06 GROUT FILL - REF. STRUCTL.	08.07 SKYLIGHT - SEE SPEC.
<b>Division 04 - Masonry</b> 04.01 CMU - 8"x8"x16" NORMAL WEIGHT (OR AS NOTED) - REF. STRUCTL.	<b>Division 09 - Finishes</b> 09.01 3/4" GYP. BD. (OR AS INDICATED)
<b>Division 05 - Metals</b> 05.01 STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	09.02 LAY-IN CEILING - SEE R.C.P.
05.02 STEEL COLUMN - REF. STRUCTL.	09.03 MILLWORK / CASEWORK - SEE MILLWORK SHEETS
05.03 STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	09.04 SOLID SURFACE - SEE FIN. SCHED.
05.04 STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	09.05 PAINT
05.05 STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	<b>Division 10 - Specialties</b> 10.01 THEMWORK - SEE THEMWORK SHEETS
05.06 STEEL LINTEL - REF. STRUCTL.	10.02 SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
05.07 METAL ROOF DECK - REF. STRUCTL.	<b>Division 11 - Equipment</b> 11.01 KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
05.08 3 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	11.02 EQUIPMENT BY OWNER - N.I.C.
05.09 6" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	11.03 WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
05.10 PRE-FINISHED METAL SOFFIT PANEL	<b>Division 12 - Furnishings</b> 12.01 XXX
05.11 METAL FRAMING AS REQ'D	<b>Division 13 - Special Construction</b> 13.01 2"x2"x1/2" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/SA7.1
05.12 HEADER - REF. STRUCTL.	13.02 CAGEWORK: 3/8" LACING BAR - SEE DETAILS FOR STANDOFF LOCNS.
05.13 COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	13.03 CAGEWORK: SEE CAGEWORK SHEETS
05.14 PRE-FINISHED HORIZONTAL METAL PANEL SIDING	13.04 SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
05.15 PRE-FINISHED VERTICAL METAL PANEL SIDING	<b>Division 14 - Conveying Systems</b> 14.01 XXX
05.16 PRE-FINISHED STANDING SNAP ON SEAM CURVED METAL ROOF	<b>Division 15 - Mechanical</b> 15.01 HVAC UNIT / EQUIPMENT / DUCT - REF. MECHL.
05.17 GALV. CORRUGATED METAL ROOFING	15.02 PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
05.18 FURRING PER METAL SIDING MANUF. RECOMMENDATION	15.03 HOSEBIB - REF. PLUMB'G
05.19 PRE-FINISHED MTL. FLASHING	15.04 BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
05.20 PRE-FINISHED MTL. SILL FLASHING	15.05 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
05.21 PRE-FINISHED MTL. FASCIA	<b>Division 16 - Electrical</b> 16.01 LIGHT FIXTURE - REF. ELECTL.
05.22 PRE-FINISHED MTL. PARAPET FLASHING	16.02 ELECTRICAL OUTLET - REF. ELECTL.
05.23 PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	16.03 LIGHT SWITCH - REF. ELECTL.
05.24 GALV. 6" HALF ROUND GUTTER & 1" DIAM. DOWNSPOUT	<b>Division 06 - Wood &amp; Plastics</b> 06.01 BLOCKING, 2X OR SIZE AS INDIC'D
05.25 PRE-FIN. METAL TRIM - PER SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS	06.02 WOOD BEAM / JOISTS - REF. STRUCTL.
<b>Division 07 - Thermal &amp; Moisture Membrane Roofing</b> 07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING	06.03 WOOD COLUMN - REF. STRUCTL.
07.02 FULLY ADHERED T.P.O. FLASHING STRIP	06.04 WOOD TRIM, 1X OR SIZE AS INDIC'D
07.03 TERMINATION BAR	06.05 PLYWOOD SHEATHING - 5/8" OR SIZE AS INDIC'D
07.04 SEALANT	06.06 1/2" GLASS-MAT ROOF COVER BD.
07.05 CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)	06.07 3/4" GLASS-MAT SHEATHING SHEATHING
07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	06.08 ROOF SHEATHING - REF. STRUCTL.
07.07 TAPERED INSULATION, 1/2" MIN.	06.09 2x FASCIA OR SIZE AS INDIC'D
07.08 ICE & WATER SHIELD	06.10 6" CEDAR SHIPLAP SIDING ON 1X SLEEPERS
07.09 WEATHER BARRIER	06.11 CEDAR TRIM

**NOTE**  
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WDM Architects P.A.  
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Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
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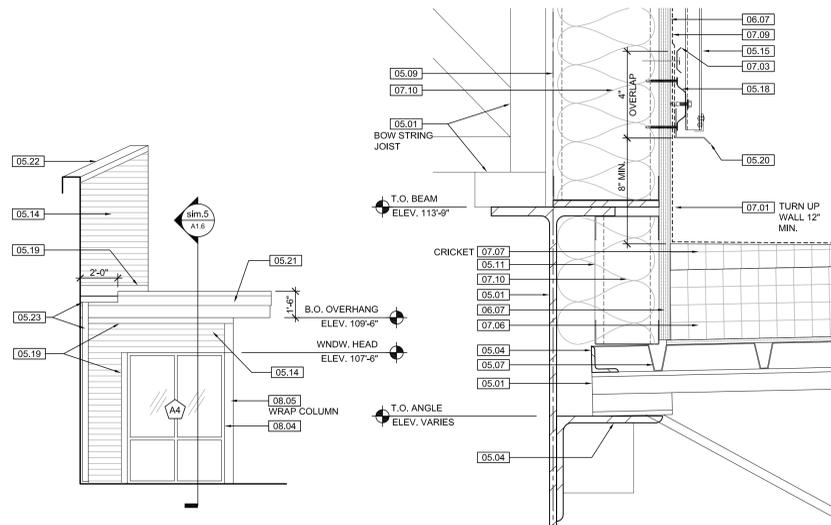
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11.25.2013 - Addendum #3

WDM No. 13046  
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checked: SR

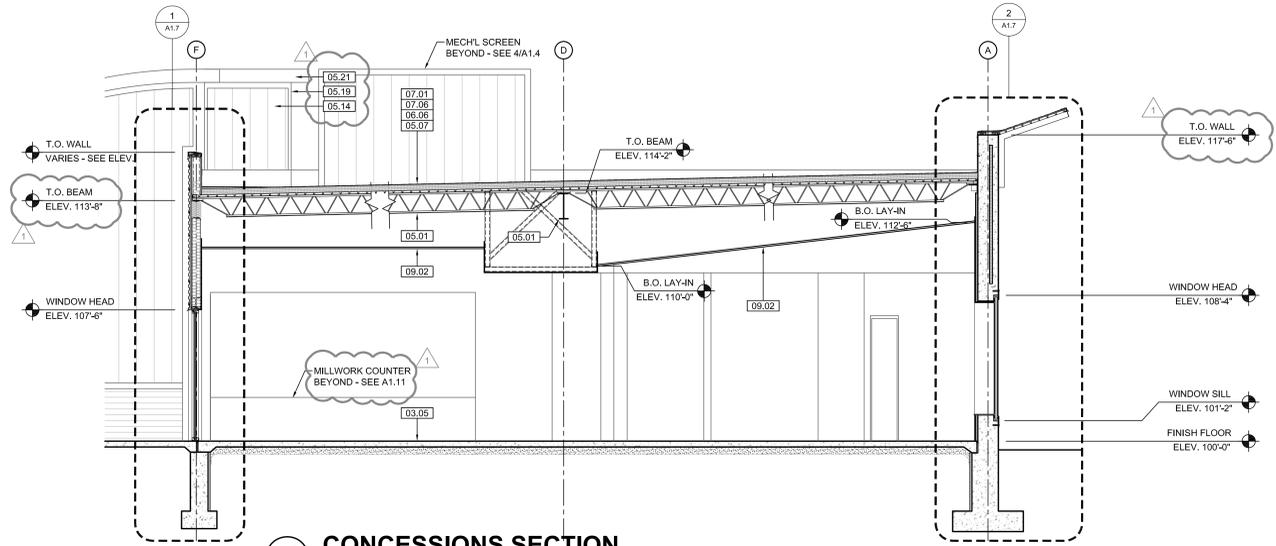
CONCESSIONS ELEVATIONS

**A1.5**

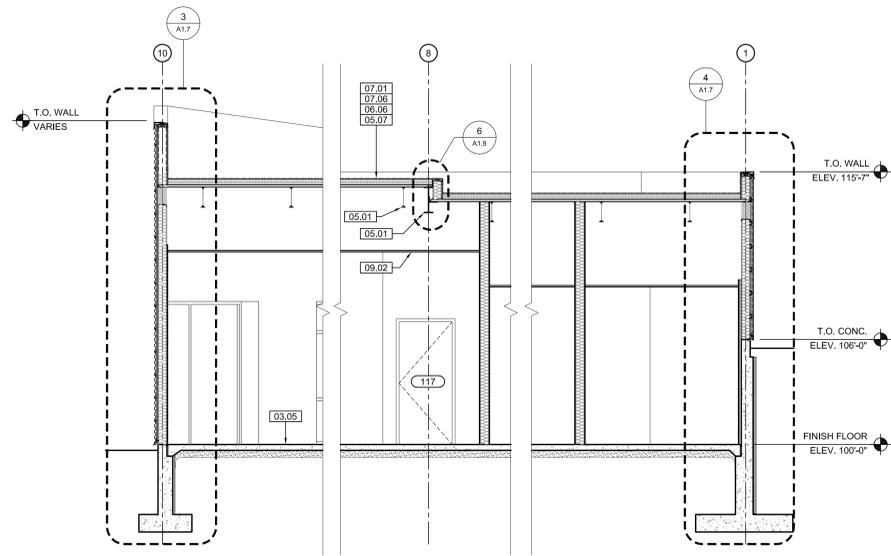


**A CONCESSIONS ELEVATION**  
SCALE: 1/4" = 1'-0"

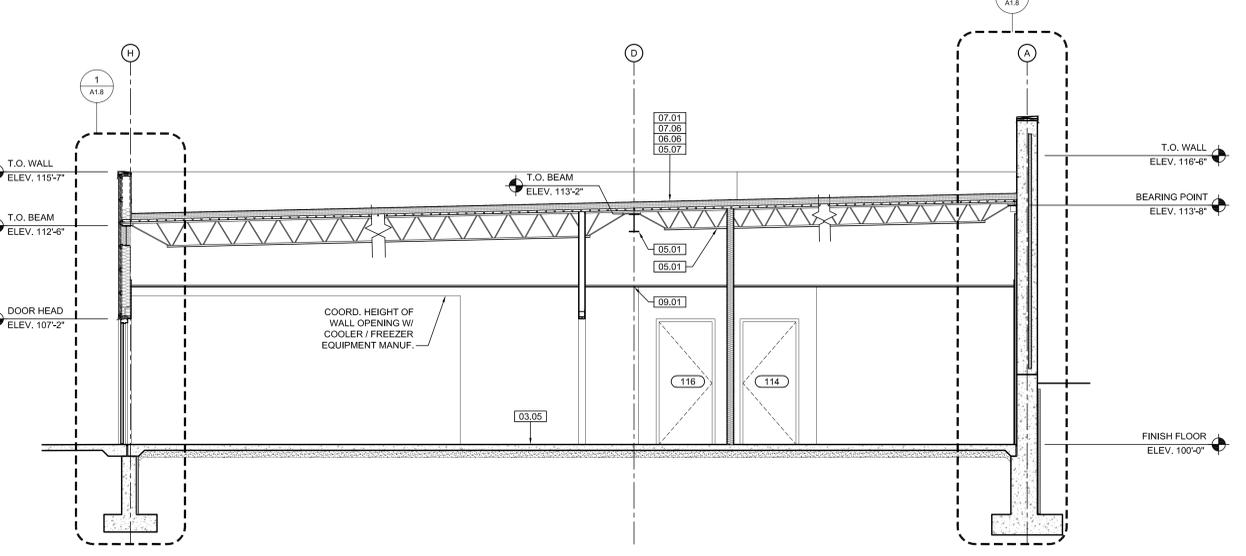
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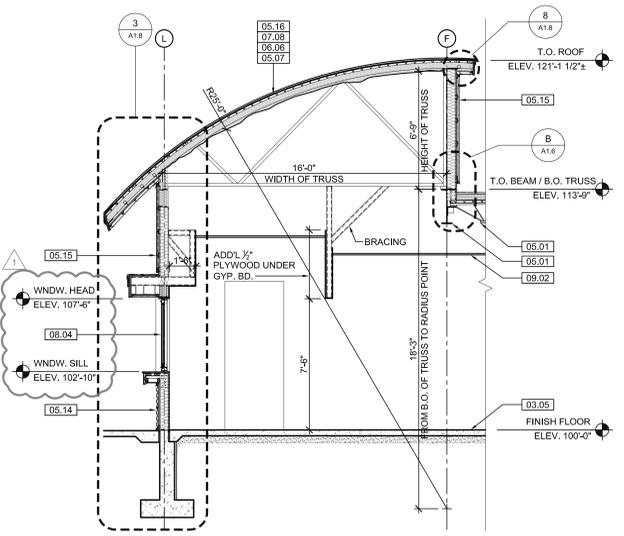
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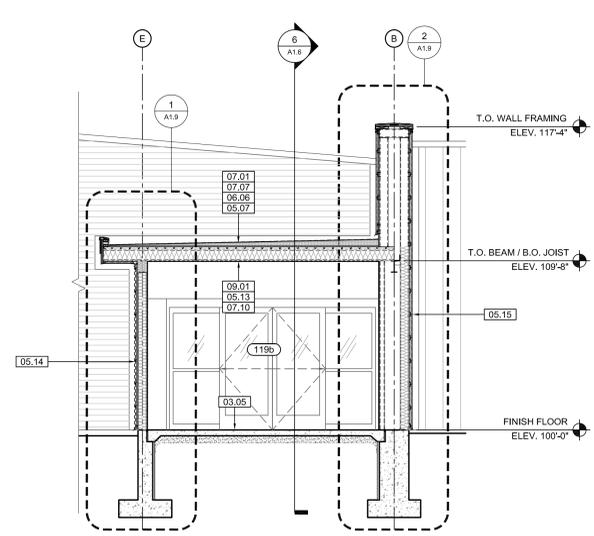
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SCALE: 1/4" = 1'-0"



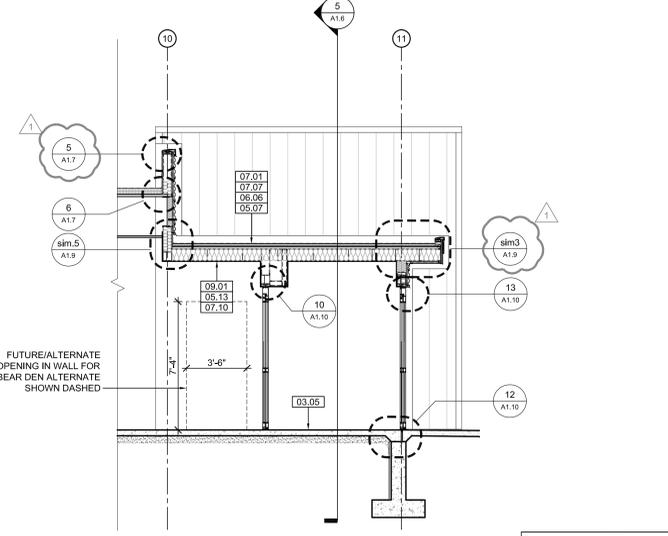
**3 CONCESSIONS SECTION**  
SCALE: 1/4" = 1'-0"



**4 CONCESSIONS SECTION**  
SCALE: 1/4" = 1'-0"



**5 CONCESSIONS SECTION**  
SCALE: 1/4" = 1'-0"



**6 CONCESSIONS SECTION**  
SCALE: 1/4" = 1'-0"

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**KEYNOTE LEGEND: BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS**

<b>Division 01 - Existing Construction</b> 01.01 XXX	07.10 BATT INSULATION R-19 MIN. TYPICAL, OR AS NOTED
<b>Division 02 - Site Construction</b> 02.01 GRADE - SEE SITE SHEETS	07.11 FOUNDATION INSULATION 48" BELOW GRADE
02.02 SIDEWALK OR SITE PAVING - SEE SITE SHEETS	07.12 EXPANSION JOINT
02.03 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	07.13 E.J. MATERIAL
02.04 SITE WALL - SEE SITE SHEETS	07.14 COLD APPLIED WATER PROOFING
02.05 SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	07.15 6" EXPANDABLE WATER STOP
02.06 CONTAINMENT FENCE - SEE SITE SHEETS	07.16 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
02.07 TRENCH DRAIN - SEE SITE SHEETS	07.17 SPRAY FOAM INSULATION R-30
02.08 HANDRAIL - SEE SITE SHEETS	<b>Division 08 - Doors &amp; Windows</b> 08.01 HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
<b>Division 03 - Concrete</b> 03.01 CONC. FOUNDATION / FOOTING - REF. STRUCTL.	08.02 F.R.P. DOOR / FRAME - SEE DOOR SCHEDULE
03.02 PRE-CAST CONCRETE WALL - REF. STRUCTL.	08.03 HOLLOW METAL WINDOW - SEE WINDOW TYPES
03.03 PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	08.04 STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
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03.06 GROUT FILL - REF. STRUCTL.	08.07 SKYLIGHT - SEE SPEC.
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<b>Division 05 - Metals</b> 05.01 STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	09.03 SOLID SURFACE - SEE FIN. SCHED.
05.02 STEEL COLUMN - REF. STRUCTL.	09.04 PAINT
05.03 STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	<b>Division 10 - Specialties</b> 10.01 THEMWORK - SEE THEMWORK SHEETS
05.04 STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	10.02 SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
05.05 STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	<b>Division 11 - Equipment</b> 11.01 KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
05.06 STEEL LINTEL - REF. STRUCTL.	11.02 EQUIPMENT BY OWNER - N.I.C.
05.07 METAL ROOF DECK - REF. STRUCTL.	11.03 WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
05.08 3 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>Division 12 - Furnishings</b> 12.01 XXX
05.09 6" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>Division 13 - Special Construction</b> 13.01 2"x2"x1/2" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/SA7.1
05.10 PRE-FINISHED METAL SOFFIT PANEL	13.02 CAGEWORK: 1/2" LACING BAR - SEE DETAILS FOR STANDOFF LOCNS.
05.11 METAL FRAMING AS REQ'D	13.03 CAGEWORK: SEE CAGEWORK SHEETS
05.12 HEADER - REF. STRUCTL.	13.04 SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
05.13 COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	<b>Division 14 - Conveying Systems</b> 14.01 XXX
05.14 PRE-FINISHED HORIZONTAL METAL PANEL SIDING	<b>Division 15 - Mechanical</b> 15.01 HVAC UNIT / EQUIPMENT / DUCT - REF. MECHL.
05.15 PRE-FINISHED VERTICAL METAL PANEL SIDING	15.02 PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
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05.17 GALV. CORRUGATED METAL ROOFING	15.04 BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
05.18 FURRING PER METAL SIDING MANUF. RECOMMENDATION	15.05 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
05.19 PRE-FINISHED MTL. FLASHING	<b>Division 16 - Electrical</b> 16.01 LIGHT FIXTURE - REF. ELECTL.
05.20 PRE-FINISHED MTL. SILL FLASHING	16.02 ELECTRICAL OUTLET - REF. ELECTL.
05.21 PRE-FINISHED MTL. FASCIA	16.03 LIGHT SWITCH - REF. ELECTL.
05.22 PRE-FINISHED MTL. PARAPET FLASHING	<b>Division 06 - Wood &amp; Plastics</b> 06.01 BLOCKING, 2X OR SIZE AS INDIC'D
05.23 PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	06.02 WOOD TRIM, 1X OR SIZE AS INDIC'D - SEE SPEC
05.24 GALV. 8" HALF ROUND GUTTER & 2" DIAM. DOWNSPOUT	06.03 WOOD BEAM / JOISTS - REF. STRUCTL.
<b>Division 07 - Thermal &amp; Moisture</b> 07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING	06.04 WOOD COLUMN - REF. STRUCTL.
07.02 FULLY ADHERED T.P.O. FLASHING STRIP	06.05 PLYWOOD SHEATHING - 3/4" OR SIZE AS INDIC'D
07.03 TERMINATION BAR	06.06 1/2" GLASS-MAT ROOF COVER BD.
07.04 SEALANT	06.07 3/4" GLASS-MAT SHEATHING SHEATHING
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07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	06.09 2x FASCIA OR SIZE AS INDIC'D
07.07 TAPERED INSULATION, 1/2" MIN.	06.10 4" CEDAR SHIP-LAP SIDING ON 1X SLEEPERS
07.08 ICE & WATER SHIELD	06.11 CEDAR TRIM
07.09 WEATHER BARRIER	



WDM Architects P.A.  
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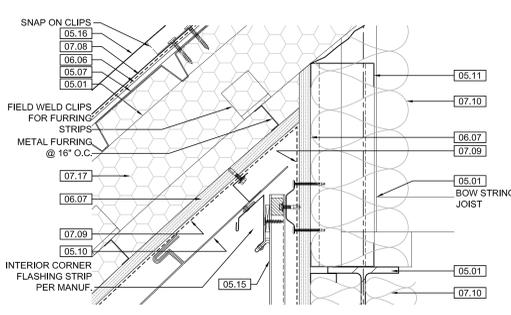
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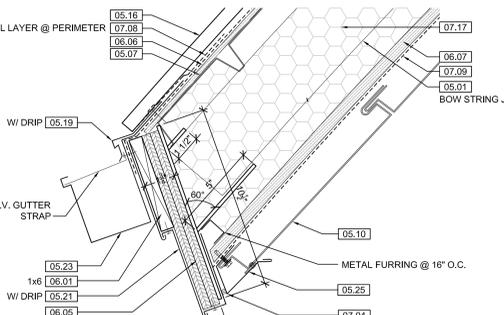
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CONCESSIONS SECTIONS

**A1.6**

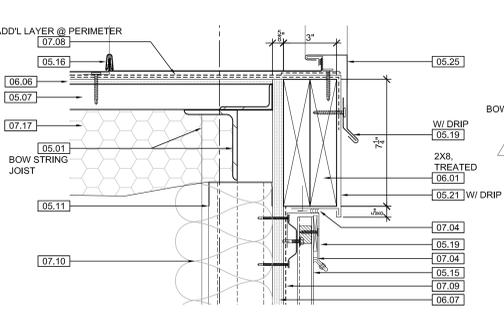




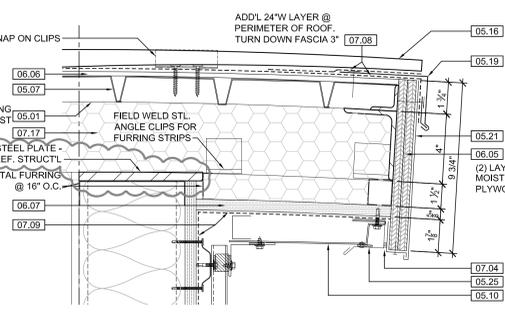
**5 BLDG. DETAIL** ALL METAL PANEL ROOF, SOFFIT, & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION  
SCALE: 3" = 1'-0"



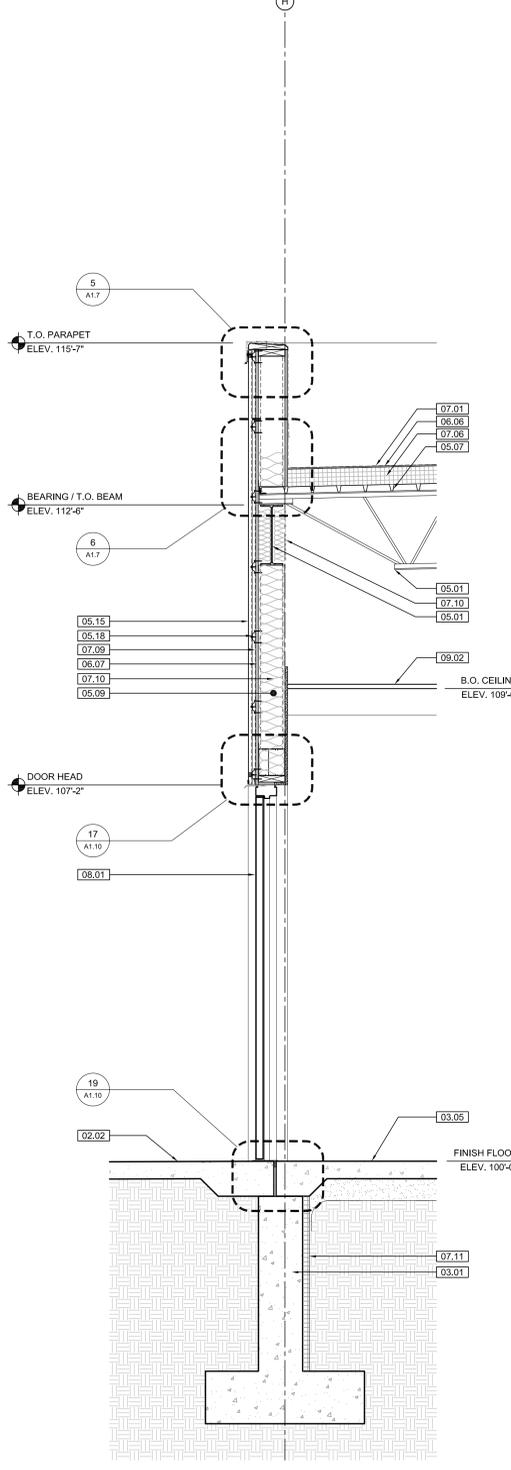
**6 BLDG. DETAIL** ALL METAL PANEL ROOF, SOFFIT, & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION  
SCALE: 3" = 1'-0"



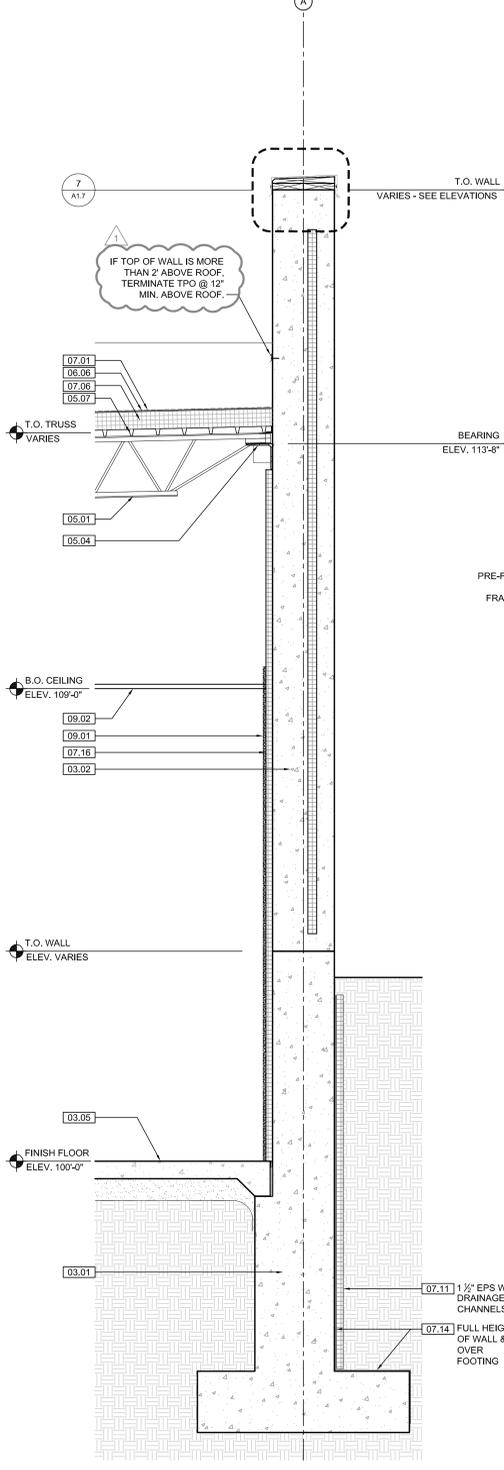
**7 BLDG. DETAIL** ALL METAL PANEL ROOF, SOFFIT, & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION  
SCALE: 3" = 1'-0"



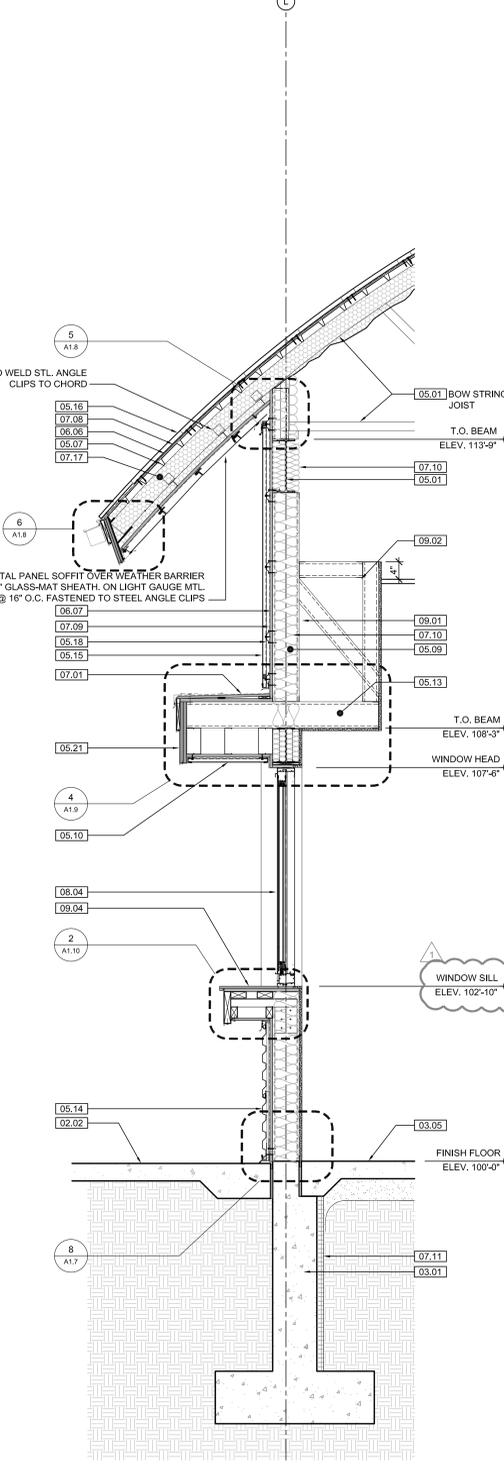
**8 BLDG. DETAIL** ALL METAL PANEL ROOF, SOFFIT, & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION  
SCALE: 3" = 1'-0"



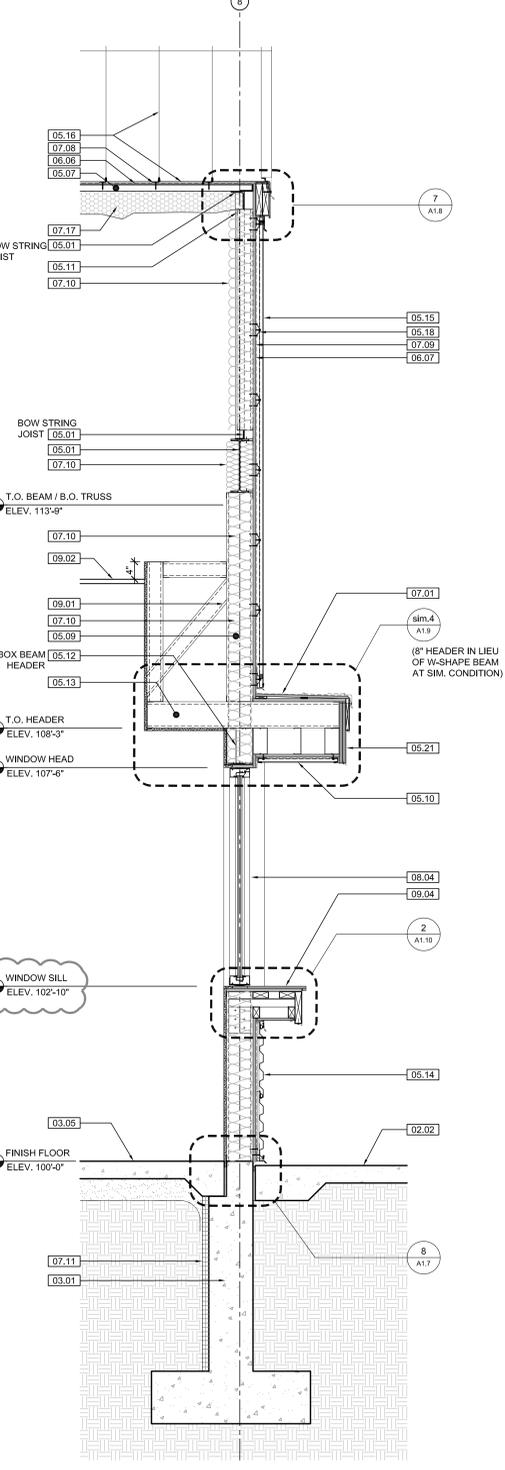
**1 CONCESSIONS WALL SECTION** SCALE: 3/4" = 1'-0"



**2 CONCESSIONS WALL SECTION** SCALE: 3/4" = 1'-0"



**3 CONCESSIONS WALL SECTION** SCALE: 3/4" = 1'-0"



**4 CONCESSIONS WALL SECTION** SCALE: 3/4" = 1'-0"

KEYNOTE LEGEND: BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS	
<b>Division 01 - Existing Construction</b>	<b>07.10</b> BATT INSULATION: R-19 MIN. TYPICAL, OR AS NOTED
<b>01.01</b> XXX	
<b>Division 02 - Site Construction</b>	<b>07.11</b> FOUNDATION INSULATION 48" BELOW GRADE
<b>02.01</b> GRADE - SEE SITE SHEETS	
<b>02.02</b> SIDEWALK OR SITE PAVING - SEE SITE SHEETS	<b>07.12</b> EXPANSION JOINT
	<b>07.13</b> E.J. MATERIAL
<b>02.03</b> 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	<b>07.14</b> COLD APPLIED WATER PROOFING
<b>02.04</b> SITE WALL - SEE SITE SHEETS	<b>07.15</b> 6" EXPANDABLE WATER STOP
<b>02.05</b> SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	<b>07.16</b> 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
<b>02.06</b> CONTAINMENT FENCE - SEE SITE SHEETS	<b>07.17</b> SPRAY FOAM INSULATION R-30
<b>02.07</b> TRENCH DRAIN - SEE SITE SHEETS	
<b>02.08</b> HANDRAIL - SEE SITE SHEETS	<b>Division 08 - Doors &amp; Windows</b>
	<b>08.01</b> HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
	<b>08.02</b> F.R.P. DOOR / FRAME - SEE DOOR SCHEDULE
	<b>08.03</b> HOLLOW METAL WINDOW - SEE WINDOW TYPES
	<b>08.04</b> STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
	<b>08.05</b> PRE-FINISHED BREAK METAL - MATCH STOREFRONT FINISH
	<b>08.06</b> GLASS / ACRYLIC - SEE WINDOW TYPES
	<b>08.07</b> SKYLIGHT - SEE SPEC.
<b>Division 03 - Concrete</b>	<b>Division 09 - Finishes</b>
<b>03.01</b> CONC. FOUNDATION / FOOTING - REF. STRUCTL.	<b>09.01</b> 1/2" GYP. BD. (OR AS INDICATED)
<b>03.02</b> PRE-CAST CONCRETE WALL - REF. STRUCTL.	<b>09.02</b> LAY-IN CEILING - SEE R.C.P.
<b>03.03</b> PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	<b>09.03</b> MILLWORK / CASEWORK - SEE MILLWORK SHEETS
<b>03.04</b> CAST-IN-PLACE CONCRETE WALL - REF. STRUCTL.	<b>09.04</b> SOLID SURFACE - SEE FIN. SCHED.
<b>03.05</b> REINF. CONC. SLAB ON GRANULAR FILL OVER VAPOR BARRIER - REF. STRUCTL & GEOTECH REPORT	<b>09.05</b> PAINT
<b>03.06</b> GROUT FILL - REF. STRUCTL.	<b>Division 10 - Specialties</b>
<b>Division 04 - Masonry</b>	<b>10.01</b> THEMWORK - SEE THEMWORK SHEETS
<b>04.01</b> CMU - 8"x8"x16" NORMAL WEIGHT (OR AS NOTED) - REF. STRUCTL.	<b>10.02</b> SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
<b>Division 05 - Metals</b>	<b>Division 11 - Equipment</b>
<b>05.01</b> STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	<b>11.01</b> KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
<b>05.02</b> STEEL COLUMN - REF. STRUCTL.	<b>11.02</b> EQUIPMENT BY OWNER - N.I.C.
<b>05.03</b> STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	<b>11.03</b> WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
<b>05.04</b> STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	<b>Division 12 - Furnishings</b>
<b>05.05</b> STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	<b>12.01</b> XXX
<b>05.06</b> STEEL LINTEL - REF. STRUCTL.	<b>Division 13 - Special Construction</b>
<b>05.07</b> METAL ROOF DECK - REF. STRUCTL.	<b>13.01</b> 2"x2"x1/2" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/SA7.1
<b>05.08</b> 3 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>13.02</b> CAGEWORK: 1/2" LACING BAR - SEE DETAILS FOR STANDOFF LOCNS.
<b>05.09</b> 6" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>13.03</b> CAGEWORK: SEE CAGEWORK SHEETS
<b>05.10</b> PRE-FINISHED METAL SOFFIT PANEL	<b>13.04</b> SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
<b>05.11</b> METAL FRAMING AS REQ'D	<b>Division 14 - Conveying Systems</b>
<b>05.12</b> HEADER - REF. STRUCTL.	<b>14.01</b> XXX
<b>05.13</b> COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	<b>Division 15 - Mechanical</b>
<b>05.14</b> PRE-FINISHED HORIZONTAL METAL PANEL SIDING	<b>15.01</b> HVAC UNIT / EQUIPMENT / DUCT - REF. MECHL.
<b>05.15</b> PRE-FINISHED VERTICAL METAL PANEL SIDING	<b>15.02</b> PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
<b>05.16</b> PRE-FINISHED STANDING SNAP ON SEAM CURVED METAL ROOF	<b>15.03</b> HOSEBIB - REF. PLUMB'G
<b>05.17</b> GALV. CORRUGATED METAL ROOFING	<b>15.04</b> BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
<b>05.18</b> FURRING PER METAL SIDING MANUF. RECOMMENDATION	<b>15.05</b> 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
<b>05.19</b> PRE-FINISHED MTL. FLASHING	<b>Division 16 - Electrical</b>
<b>05.20</b> PRE-FINISHED MTL. SILL FLASHING	<b>16.01</b> LIGHT FIXTURE - REF. ELECTL.
<b>05.21</b> PRE-FINISHED MTL. FASCIA	<b>16.02</b> ELECTRICAL OUTLET - REF. ELECTL.
<b>05.22</b> PRE-FINISHED MTL. PARAPET FLASHING	<b>16.03</b> LIGHT SWITCH - REF. ELECTL.
<b>05.23</b> PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	
<b>05.24</b> GALV. 6" HALF ROUND GUTTER & 2" DIAM. DOWNSPOUT	<b>Division 06 - Wood &amp; Plastics</b>
<b>05.25</b> PRE-FIN. METAL TRIM - PER SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS	<b>06.01</b> BLOCKING, 2X OR SIZE AS INDIC'D
<b>06.02</b> WOOD TRIM, 1X OR SIZE AS INDIC'D - SEE SPEC	<b>06.02</b> WOOD BEAM / JOISTS - REF. STRUCTL.
<b>06.03</b> WOOD COLUMN - REF. STRUCTL.	<b>06.04</b> WOOD COLUMN - REF. STRUCTL.
<b>06.04</b> WOOD COLUMN - REF. STRUCTL.	<b>06.05</b> PLYWOOD SHEATHING - 1/2" OR SIZE AS INDIC'D
<b>06.05</b> PLYWOOD SHEATHING - 1/2" OR SIZE AS INDIC'D	<b>06.06</b> 1/2" GLASS-MAT ROOF COVER BD.
<b>06.06</b> 1/2" GLASS-MAT ROOF COVER BD.	<b>06.07</b> 1/2" GLASS-MAT SHEATHING
<b>06.07</b> 1/2" GLASS-MAT SHEATHING	<b>06.08</b> ROOF SHEATHING - REF. STRUCTL.
<b>06.08</b> ROOF SHEATHING - REF. STRUCTL.	<b>06.09</b> 2x FASCIA OR SIZE AS INDIC'D
<b>06.09</b> 2x FASCIA OR SIZE AS INDIC'D	<b>06.10</b> 4" CEDAR SHIP LAP SIDING ON 1X SLEEPERS
<b>06.10</b> 4" CEDAR SHIP LAP SIDING ON 1X SLEEPERS	<b>06.11</b> CEDAR TRIM
<b>06.11</b> CEDAR TRIM	<b>Division 07 - Thermal &amp; Moisture</b>
<b>06.12</b> FULLY ADHERED T.P.O. MEMBRANE ROOFING	<b>07.01</b> FULLY ADHERED T.P.O. FLASHING STRIP
<b>07.02</b> FULLY ADHERED T.P.O. FLASHING STRIP	<b>07.03</b> TERMINATION BAR
<b>07.03</b> TERMINATION BAR	<b>07.04</b> SEALANT
<b>07.04</b> SEALANT	<b>07.05</b> CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)
<b>07.05</b> CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)	<b>07.06</b> ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)
<b>07.06</b> ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	<b>07.07</b> TAPERED INSULATION, 1/2" MIN.
<b>07.07</b> TAPERED INSULATION, 1/2" MIN.	<b>07.08</b> ICE & WATER SHIELD
<b>07.08</b> ICE & WATER SHIELD	<b>07.09</b> WEATHER BARRIER
<b>07.09</b> WEATHER BARRIER	

**NOTE**  
CONCESSIONS FINISH FLOOR ELEVATION 100'-0" (AS USED IN THESE 'A' SHEETS) EQUALS SITE ELEVATION 109.00 (VERIFY W/ SITE SHEETS)

**wcm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

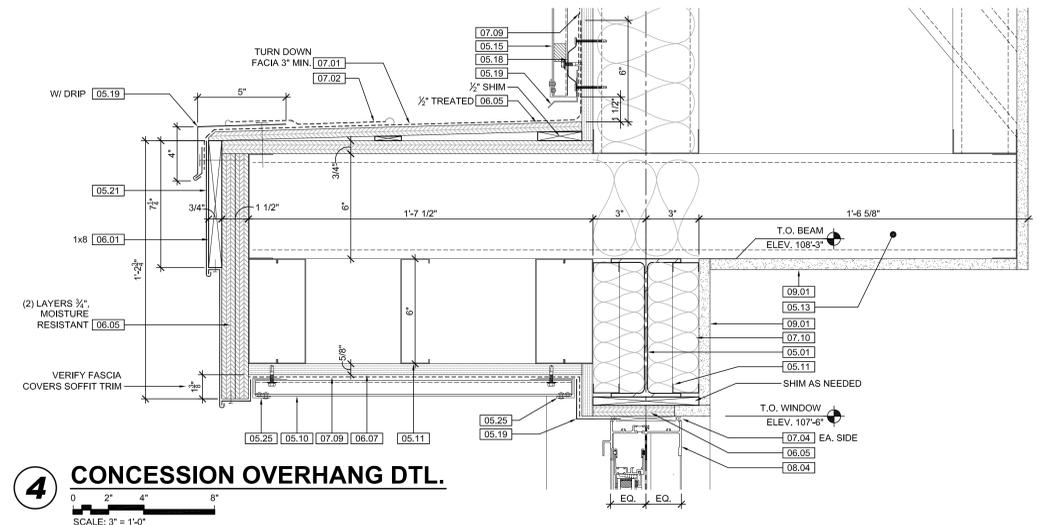
**we do more**  
**henry vilas**  
**ADP**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Department of Public Works  
Henry Vilas Zoo  
702 S Randall Ave  
Madison, Wisconsin

PRINTS ISSUED  
07.26.2013 - Schematic Design  
08.23.2013 - Design Development  
09.23.2013 - 65% CD's  
10.07.2013 - Pricing Set  
10.21.2013 - 95% CD's  
11.13.2013 - Bid Documents  
11.25.2013 - Addendum #3

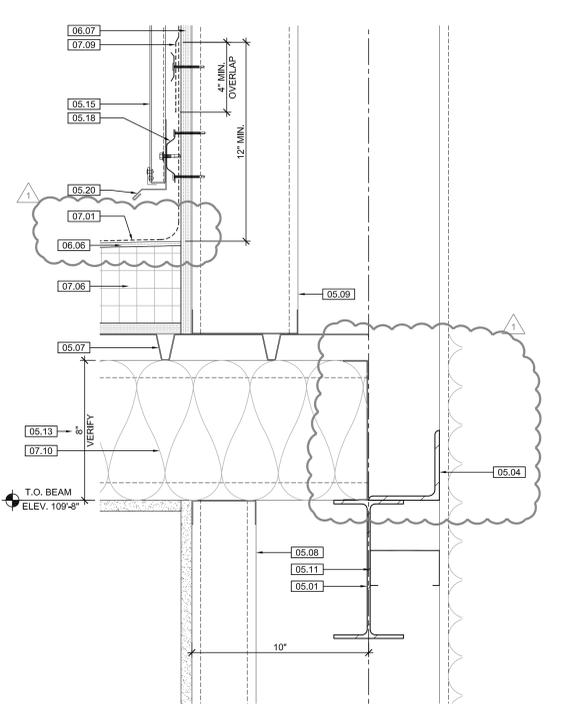
WDM No. 13046  
drawn: DS  
checked: SR  
CONCESSIONS DETAILS

**A1.8**

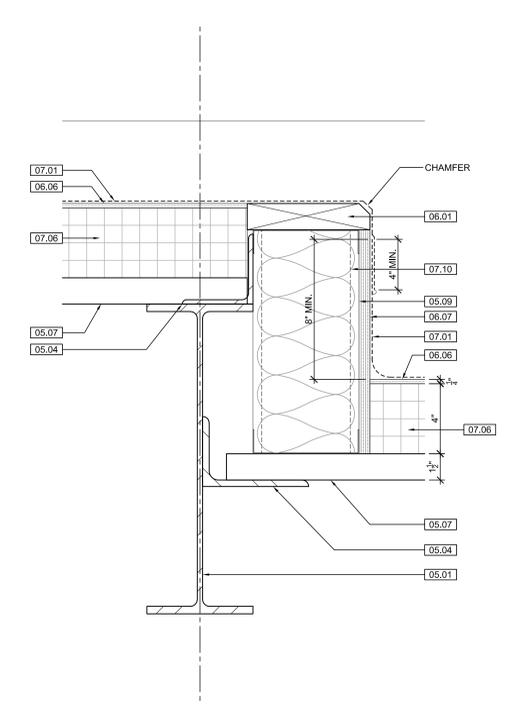


**4 CONCESSION OVERHANG DTL.**  
SCALE: 3/8" = 1'-0"

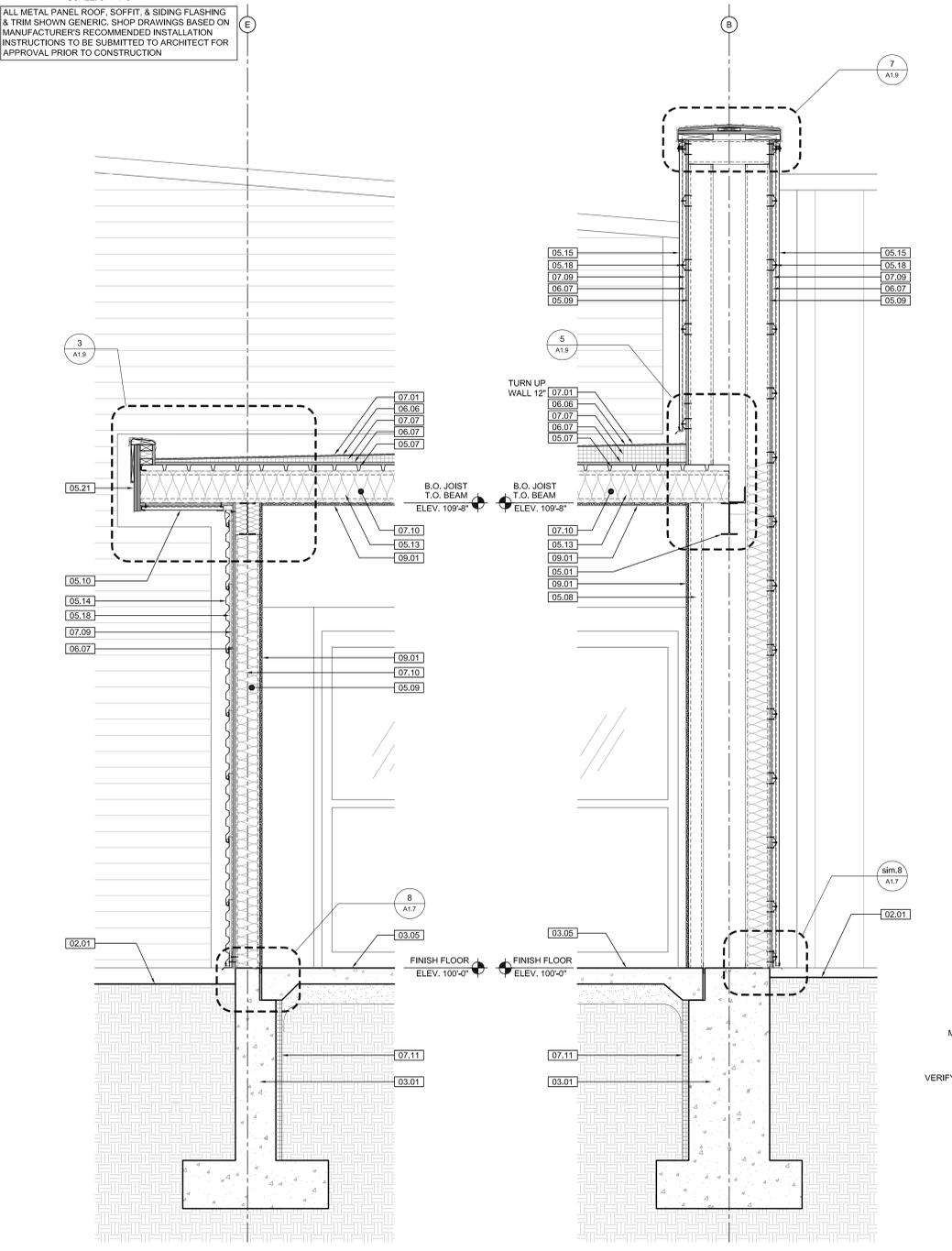
ALL METAL PANEL ROOF, SOFFIT & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION



**5 BLDG. DETAIL**  
SCALE: 3/8" = 1'-0"

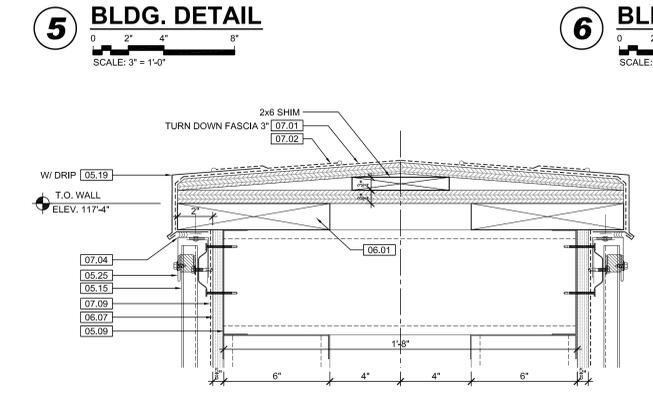


**6 BLDG. DETAIL**  
SCALE: 3/8" = 1'-0"



**1 CONCESSIONS WALL SECTION**  
SCALE: 3/4" = 1'-0"

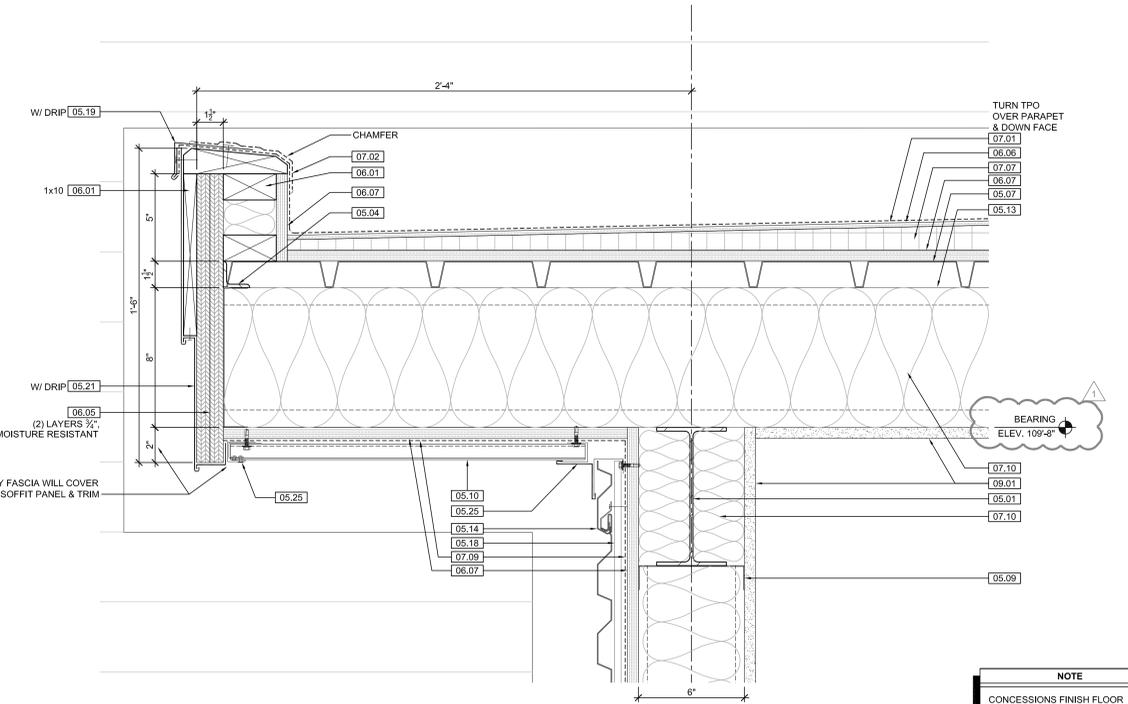
**2 CONCESSIONS WALL SECTION**  
SCALE: 3/4" = 1'-0"



**7 PARAPET DTL.**  
SCALE: 3/8" = 1'-0"



**8 NOT USED**  
SCALE: 3/8" = 1'-0"



**3 BLDG. DETAIL**  
SCALE: 3/8" = 1'-0"

ALL METAL PANEL ROOF, SOFFIT, & SIDING FLASHING & TRIM SHOWN GENERIC. SHOP DRAWINGS BASED ON MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION

KEYNOTE LEGEND: BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS	
Division 01 - Existing Construction	07.10 BATT INSULATION R-19 MIN. TYPICAL, OR AS NOTED
01.01 XXX	07.11 FOUNDATION INSULATION 48" BELOW GRADE
Division 02 - Site Construction	07.12 EXPANSION JOINT
02.01 GRADE - SEE SITE SHEETS	07.13 E.J. MATERIAL
02.02 SIDEWALK OR SITE PAVING - SEE SITE SHEETS	07.14 COLD APPLIED WATER PROOFING
02.03 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	07.15 6" EXPANDABLE WATER STOP
02.04 SITE WALL - SEE SITE SHEETS	07.16 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
02.05 SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	07.17 SPRAY FOAM INSULATION R-30
02.06 CONTAINMENT FENCE - SEE SITE SHEETS	Division 08 - Doors & Windows
02.07 TRENCH DRAIN - SEE SITE SHEETS	08.01 HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
02.08 HANDRAIL - SEE SITE SHEETS	08.02 F.R.P. DOOR / FRAME - SEE DOOR SCHEDULE
Division 03 - Concrete	08.03 HOLLOW METAL WINDOW - SEE WINDOW TYPES
03.01 CONC. FOUNDATION / FOOTING - REF. STRUCTL.	08.04 STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
03.02 PRE-CAST CONCRETE WALL - REF. STRUCTL.	08.05 PRE-FINISHED BREAK METAL - MATCH STOREFRONT FINISH
03.03 PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	08.06 GLASS / ACRYLIC - SEE WINDOW TYPES
03.04 CAST-IN-PLACE CONCRETE WALL - REF. STRUCTL.	08.07 SKYLIGHT - SEE SPEC.
03.05 REINF. CONC. SLAB ON GRANULAR FILL OVER VAPOR BARRIER - REF. STRUCTL & GEOTECH REPORT	Division 09 - Finishes
03.06 GROUT FILL - REF. STRUCTL.	09.01 1/2" GYP. BD. (OR AS INDICATED)
Division 04 - Masonry	09.02 LAY-IN CEILING - SEE R.C.P.
04.01 CMU - 8"x8"x16" NORMAL WEIGHT (OR AS NOTED) - REF. STRUCTL.	09.03 MILLWORK / CASEWORK - SEE MILLWORK SHEETS
Division 05 - Metals	09.04 SOLID SURFACE - SEE FIN. SCHED.
05.01 STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	09.05 PAINT
05.02 STEEL COLUMN - REF. STRUCTL.	Division 10 - Specialties
05.03 STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	10.01 THEMWORK - SEE THEMWORK SHEETS
05.04 STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	10.02 SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
05.05 STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	Division 11 - Equipment
05.06 STEEL LINTEL - REF. STRUCTL.	11.01 KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
05.07 METAL ROOF DECK - REF. STRUCTL.	11.02 EQUIPMENT BY OWNER - N.I.C.
05.08 3 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	11.03 WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
05.09 6" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	Division 12 - Furnishings
05.10 PRE-FINISHED METAL SOFFIT PANEL	12.01 XXX
05.11 METAL FRAMING AS REQ'D	Division 13 - Special Construction
05.12 HEADER - REF. STRUCTL.	13.01 2"x2"x1/2" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/SA7.1
05.13 COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	13.02 CAGEWORK: 3/8" LACING BAR - SEE DETAILS FOR LANDING LOCKS.
05.14 PRE-FINISHED HORIZONTAL METAL PANEL SIDING	13.03 CAGEWORK: SEE CAGEWORK SHEETS
05.15 PRE-FINISHED VERTICAL METAL PANEL SIDING	13.04 SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
05.16 PRE-FINISHED STANDING SNAP ON SEAM CURVED METAL ROOF	Division 14 - Conveying Systems
05.17 GALV. CORRUGATED METAL ROOFING	14.01 XXX
05.18 FURRING PER METAL SIDING MANUF. RECOMMENDATION	Division 15 - Mechanical
05.19 PRE-FINISHED MTL. FLASHING	15.02 PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
05.20 PRE-FINISHED MTL. SILL FLASHING	15.03 HOSEBIB - REF. PLUMB'G
05.21 PRE-FINISHED MTL. FASCIA	15.04 BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
05.22 PRE-FINISHED MTL. PARAPET FLASHING	15.05 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
05.23 PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	Division 16 - Electrical
05.24 GALV. 6" HALF ROUND GUTTER & 2" DIAM. DOWNSPOUT	16.01 LIGHT FIXTURE - REF. ELECTL.
05.25 PRE-FIN. METAL TRIM - PER SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS	16.02 ELECTRICAL OUTLET - REF. ELECTL.
05.26 BLOCKING, 2X OR SIZE AS INDIC'D	16.03 LIGHT SWITCH - REF. ELECTL.
06.02 WOOD TRIM, 1X OR SIZE AS INDIC'D - SEE SPEC	Division 07 - Thermal & Moisture
06.03 WOOD BEAM / JOISTS - REF. STRUCTL.	07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING
06.04 WOOD COLUMN - REF. STRUCTL.	07.02 FULLY ADHERED T.P.O. FLASHING STRIP
06.05 PLYWOOD SHEATHING - 3/4" OR SIZE AS INDIC'D	07.03 TERMINATION BAR
06.06 1/2" GLASS-MAT ROOF COVER BD.	07.04 SEALANT
06.07 5/8" GLASS-MAT SHEATHING SHEATHING	07.05 CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)
06.08 ROOF SHEATHING - REF. STRUCTL.	07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)
06.09 2x FASCIA OR SIZE AS INDIC'D	07.07 TAPERED INSULATION, 1/2" MIN.
06.10 6" CEDAR SHIPLAP SIDING ON 1X SLEEPERS	07.08 ICE & WATER SHIELD
06.11 CEDAR TRIM	07.09 WEATHER BARRIER
Division 07 - Thermal & Moisture	
07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING	
07.02 FULLY ADHERED T.P.O. FLASHING STRIP	
07.03 TERMINATION BAR	
07.04 SEALANT	
07.05 CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)	
07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	
07.07 TAPERED INSULATION, 1/2" MIN.	
07.08 ICE & WATER SHIELD	
07.09 WEATHER BARRIER	

**NOTE**  
CONCESSIONS FINISH FLOOR ELEVATION 100'-0" (AS USED IN THESE 'X' SHEETS) EQUALS SITE ELEVATION 109'-8" (VERIFY W/ SITE SHEETS)

**wcm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

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**ARCHITECTS**

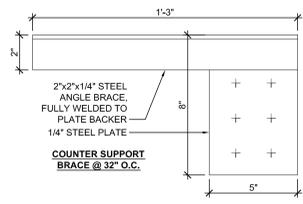
**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Department of Public Works  
Henry Vilas Zoo  
702 S Randall Ave  
Madison, Wisconsin  
1919 Alliant Energy Center Way  
Madison, Wisconsin

PRINTS ISSUED  
07.26.2013 - Schematic Design  
08.23.2013 - Design Development  
09.23.2013 - 65% CD's  
10.07.2013 - Pricing Set  
10.21.2013 - 95% CD's  
11.13.2013 - Bid Documents  
11.25.2013 - Addendum #3

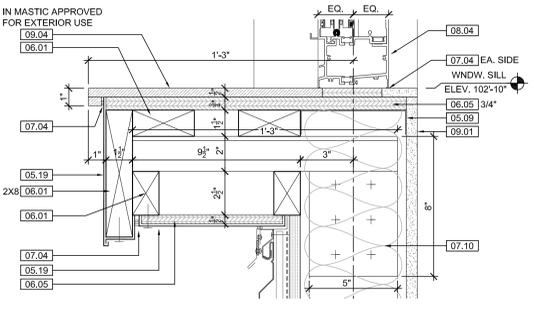
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drawn: DS  
checked: SR

CONCESSIONS DETAILS

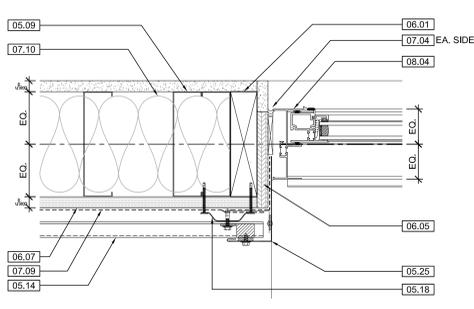
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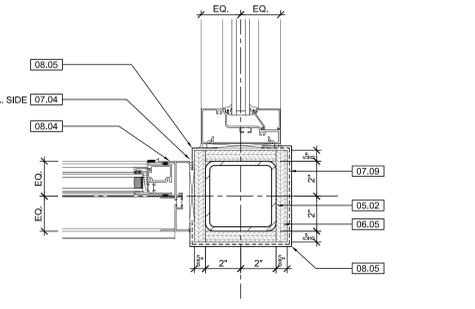
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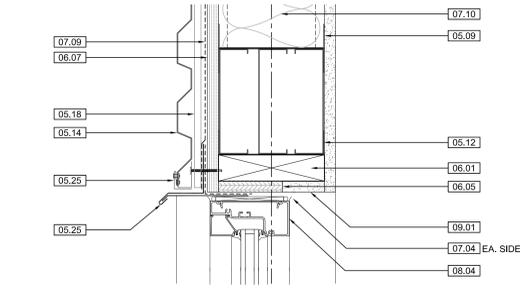
**2 CONCESSION WNDW. SILL DTL.**  
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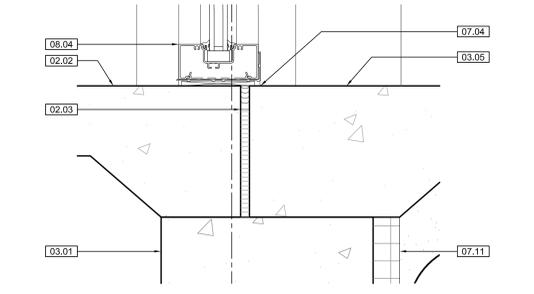
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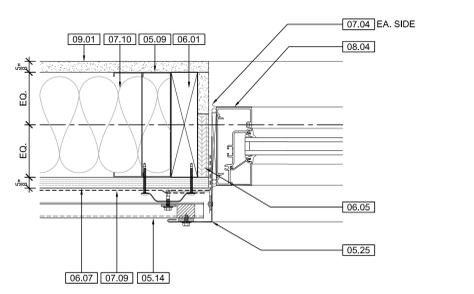
**4 CONCESSION WNDW. JAMB DTL.**  
3" = 1' - 0"



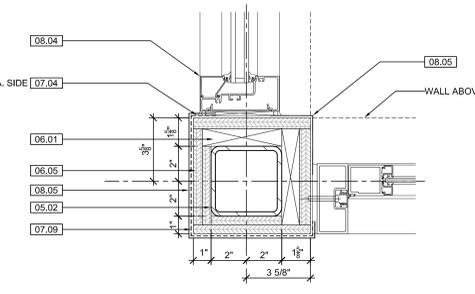
**5 TYPICAL WNDW. HEAD DTL.**  
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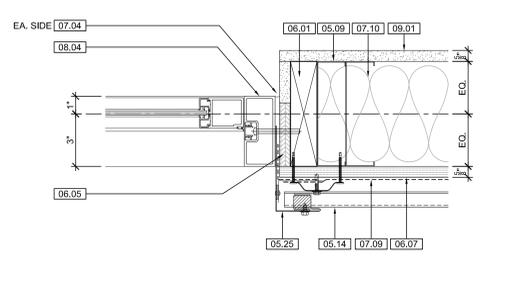
**6 TYP. WNDW. SILL DTL.**  
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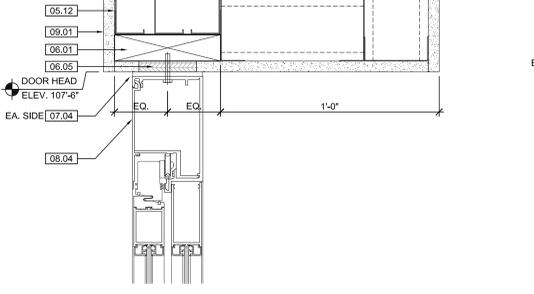
**7 TYP. WNDW. JAMB DTL.**  
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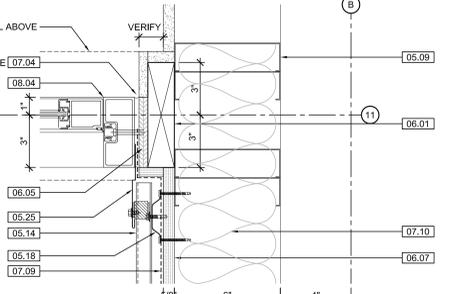
**8 WNDW. JAMB DTL. @ CORNER COL.**  
3" = 1' - 0"



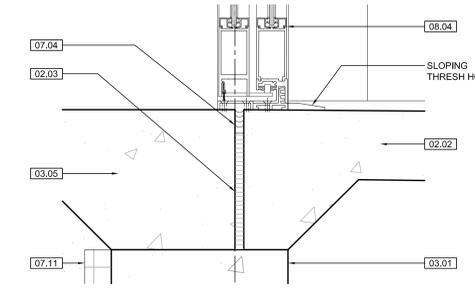
**9 SLIDE DOOR JAMB DTL.**  
3" = 1' - 0"



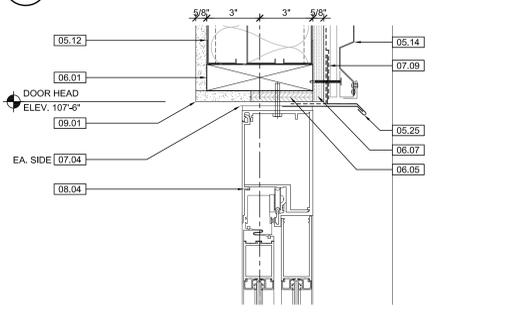
**10 INT. SLIDE DOOR HEAD DTL.**  
3" = 1' - 0"



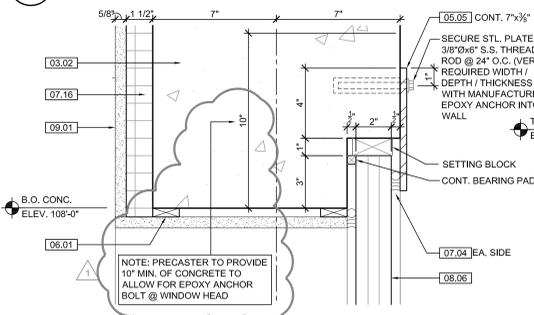
**11 SLIDE DOOR JAMB DTL.**  
3" = 1' - 0"



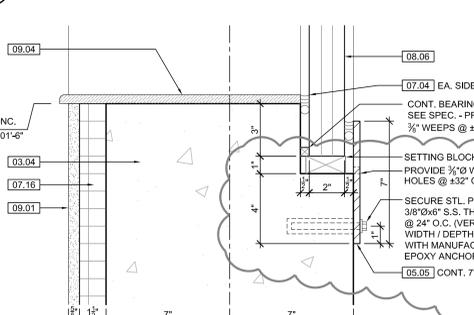
**12 SLIDE DOOR SILL DTL.**  
3" = 1' - 0"



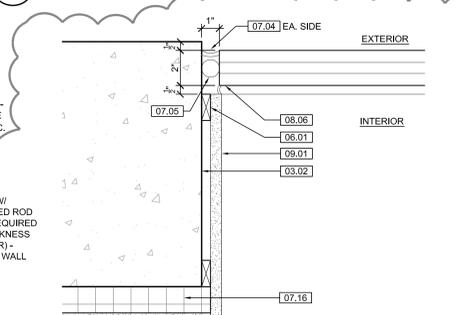
**13 SLIDE DOOR HEAD DTL.**  
3" = 1' - 0"



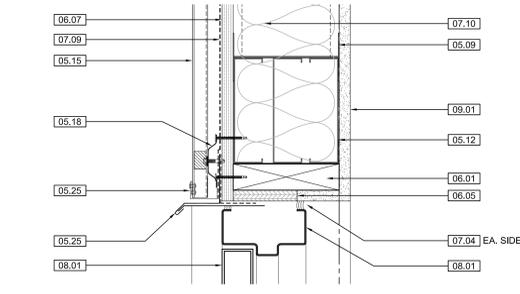
**14 BEAR WNDW. HEAD DTL.**  
3" = 1' - 0"



**15 BEAR WNDW. SILL DTL.**  
3" = 1' - 0"



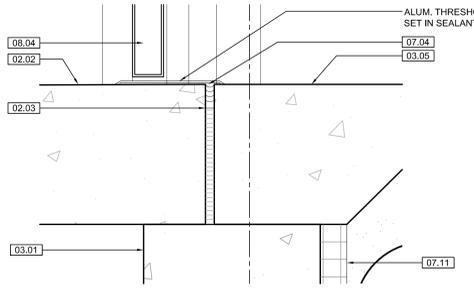
**16 BEAR WNDW. JAMB DTL.**  
3" = 1' - 0"



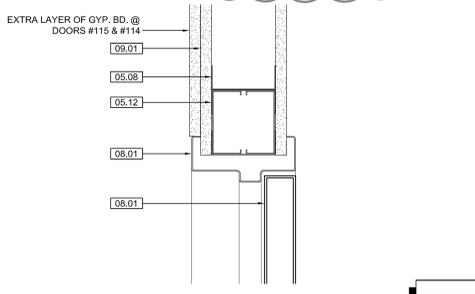
**17 DOOR HEAD DTL.**  
3" = 1' - 0"



**18 NOT USED**  
3" = 1' - 0"



**19 DOOR SILL DTL.**  
3" = 1' - 0"



**20 DOOR HEAD DTL.**  
3" = 1' - 0"

KEYNOTE LEGEND:	
BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS	
Division 01 - Existing Construction	07.10 BATT INSULATION R-19 MIN. TYPICAL, OR AS NOTED
01.01 XXX	07.11 FOUNDATION INSULATION 48" BELOW GRADE
Division 02 - Site Construction	07.12 EXPANSION JOINT
02.01 GRADE - SEE SITE SHEETS	07.13 E.J. MATERIAL
02.02 SIDEWALK OR SITE PAVING - SEE SITE SHEETS	07.14 COLD APPLIED WATER PROOFING
02.03 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	07.15 6" EXPANDABLE WATER STOP
02.04 SITE WALL - SEE SITE SHEETS	07.16 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
02.05 SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	07.17 SPRAY FOAM INSULATION R-30
02.06 CONTAINMENT FENCE - SEE SITE SHEETS	Division 08 - Doors & Windows
02.07 TRENCH DRAIN - SEE SITE SHEETS	08.01 HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
02.08 HANDRAIL - SEE SITE SHEETS	08.02 F.R.P. DOOR / FRAME - SEE DOOR SCHEDULE
Division 03 - Concrete	08.03 HOLLOW METAL WINDOW - SEE WINDOW TYPES
03.01 CONC. FOUNDATION / FOOTING - REF. STRUCTL.	08.04 STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
03.02 PRE-CAST CONCRETE WALL - REF. STRUCTL.	08.05 PRE-FINISHED BREAK METAL - MATCH STOREFRONT FINISH
03.03 PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	08.06 GLASS / ACRYLIC - SEE WINDOW TYPES
03.04 CAST-IN-PLACE CONCRETE WALL - REF. STRUCTL.	08.07 SKYLIGHT - SEE SPEC.
03.05 REINF. CONC. SLAB ON GRANULAR FILL OVER VAPOR BARRIER - REF. STRUCTL. & GEOTECH REPORT	Division 09 - Finishes
03.06 GROUT FILL - REF. STRUCTL.	09.01 1/2" GYP. BD. (OR AS INDICATED)
Division 04 - Masonry	09.02 LAY-IN CEILING - SEE R.C.P.
04.01 CMU - 8"x8"x16" NORMAL WEIGHT (OR AS NOTED) - REF. STRUCTL.	09.03 MILLWORK / CASEWORK - SEE MILLWORK SHEETS
Division 05 - Metals	09.04 SOLID SURFACE - SEE FIN. SCHED.
05.01 STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	09.05 PAINT
05.02 STEEL COLUMN - REF. STRUCTL.	Division 10 - Specialties
05.03 STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	10.01 THEMWORK - SEE THEMWORK SHEETS
05.04 STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	10.02 SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
05.05 STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	Division 11 - Equipment
05.06 STEEL LINTEL - REF. STRUCTL.	11.01 KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
05.07 METAL ROOF DECK - REF. STRUCTL.	11.02 EQUIPMENT BY OWNER - N.I.C.
05.08 3 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	11.03 WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
05.09 6" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	Division 12 - Furnishings
05.10 PRE-FINISHED METAL SOFFIT PANEL	12.01 XXX
05.11 METAL FRAMING AS REQ'D	Division 13 - Special Construction
05.12 HEADER - REF. STRUCTL.	13.01 2"x2"x1/8" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/5A.1
05.13 COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	13.02 CAGEWORK: 1/2" LACING BAR - SEE DETAILS FOR STANOFF LOCNS.
05.14 PRE-FINISHED HORIZONTAL METAL PANEL SIDING	13.03 CAGEWORK: SEE CAGEWORK SHEETS
05.15 PRE-FINISHED VERTICAL METAL PANEL SIDING	13.04 SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
05.16 PRE-FINISHED STANDING SNAP ON SEAM CURVED METAL ROOF	Division 14 - Conveying Systems
05.17 GALV. CORRUGATED METAL ROOFING	14.01 XXX
05.18 FURRING PER METAL SIDING MANUF. RECOMMENDATION	Division 15 - Mechanical
05.19 PRE-FINISHED MTL. FLASHING	15.01 HVAC UNIT / EQUIPMENT / DUCT - REF. MECHL.
05.20 PRE-FINISHED MTL. SILL FLASHING	15.02 PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
05.21 PRE-FINISHED MTL. FASCIA	15.03 HOSEBIB - REF. PLUMB'G
05.22 PRE-FINISHED MTL. PARAPET FLASHING	15.04 BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
05.23 PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	15.05 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
05.24 GALV. 1/2" HALF ROUND GUTTER & 1" DIAM. DOWNSPOUT	Division 16 - Electrical
05.25 PRE-FIN. METAL TRIM - PER SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS	16.01 LIGHT FIXTURE - REF. ELECTL.
Division 06 - Wood & Plastics	16.02 ELECTRICAL OUTLET - REF. ELECTL.
06.01 BLOCKING, 2X OR SIZE AS INDIC'D	16.03 LIGHT SWITCH - REF. ELECTL.
06.02 WOOD TRIM, 1X OR SIZE AS INDIC'D - SEE SPEC	Division 07 - Thermal & Moisture
06.03 WOOD BEAM / JOISTS - REF. STRUCTL.	07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING
06.04 WOOD COLUMN - REF. STRUCTL.	07.02 FULLY ADHERED T.P.O. FLASHING STRIP
06.05 PLYWOOD SHEATHING - 1/2" OR SIZE AS INDIC'D	07.03 TERMINATION BAR
06.06 1/2" GLASS-MAT ROOF COVER BD.	07.04 SEALANT
06.07 1/2" GLASS-MAT SHEATHING	07.05 CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)
06.08 ROOF SHEATHING - REF. STRUCTL.	07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)
06.09 2x FASCIA OR SIZE AS INDIC'D	07.07 TAPERED INSULATION, 1/2" MIN.
06.10 4" CEDAR SHIPLAP SIDING ON 1X SLEEPERS	07.08 ICE & WATER SHIELD
06.11 CEDAR TRIM	07.09 WEATHER BARRIER
Division 07 - Thermal & Moisture	
07.01 FULLY ADHERED T.P.O. MEMBRANE ROOFING	
07.02 FULLY ADHERED T.P.O. FLASHING STRIP	
07.03 TERMINATION BAR	
07.04 SEALANT	
07.05 CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)	
07.06 ACID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	
07.07 TAPERED INSULATION, 1/2" MIN.	
07.08 ICE & WATER SHIELD	
07.09 WEATHER BARRIER	

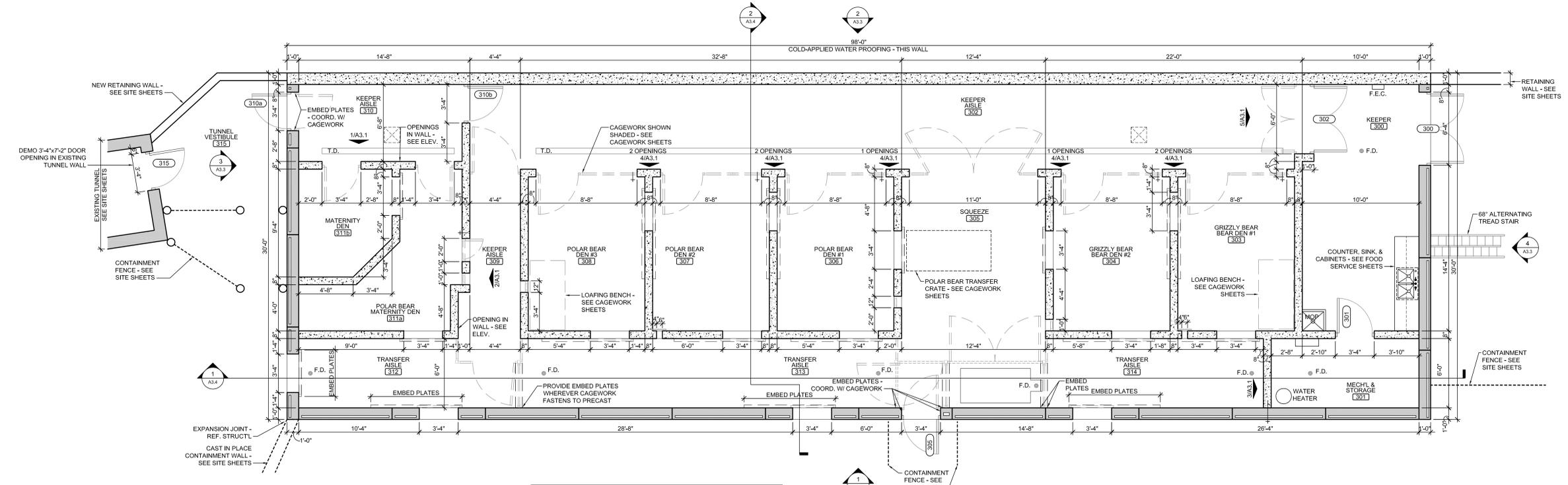
**NOTE**  
CONCESSIONS FINISH FLOOR ELEVATION 100'-0" (AS USED IN THESE 'N' SHEETS) EQUALS SITE ELEVATION 109.00 (VERIFY W/ SITE SHEETS)



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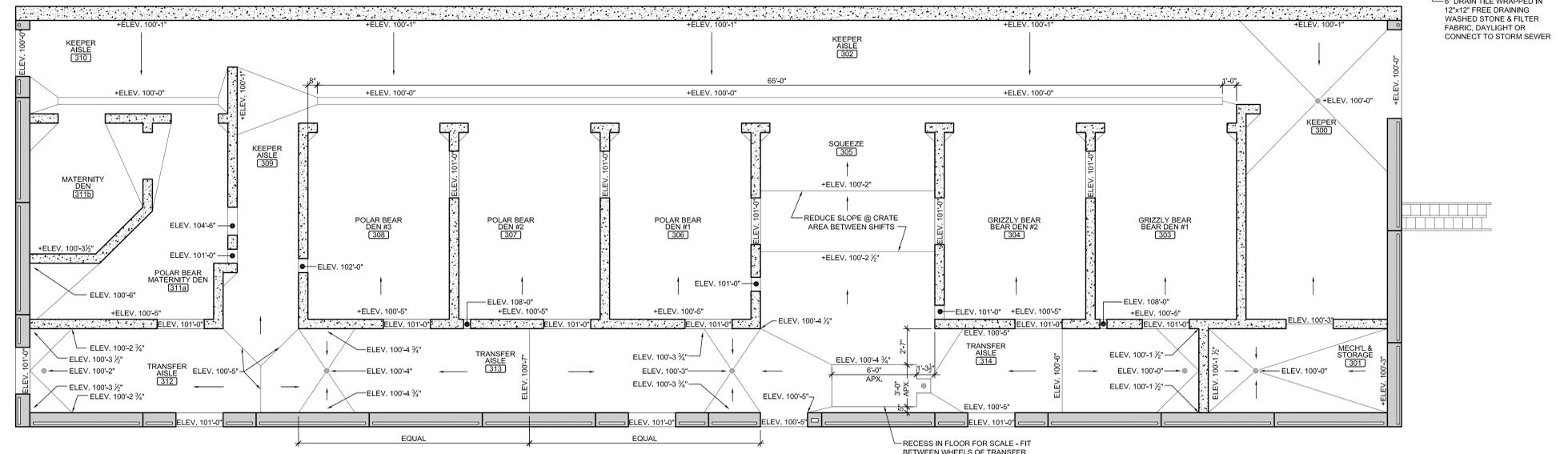
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checked: SR



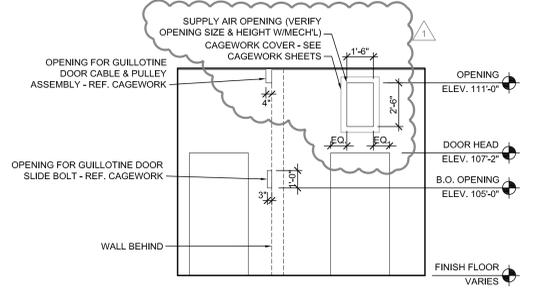
**A BEAR HOLDING FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

FINISH SCHEDULE	
ALL WALLS	SPECIAL COATING, SC-1, TINTED
ALL CEILINGS (CONC. STRUCTURE)	SPECIAL COATING, SC-1
CONC. FLOOR	SEALED, TROWELED SMOOTH FINISH EVERYWHERE EXCEPT BEAR DENS & TRANSFER AISLE WHICH ARE TO RECEIVE A LIGHT BROOM FINISH TO BE APPROVED BY OWNER.

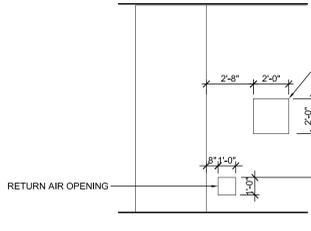
**NOTE**  
BEAR HOLDING FINISH FLOOR ELEVATION 100'-0" (AS USED IN THESE 'A' SHEETS) EQUALS SITE ELEVATION 114.30 (VERIFY W/ SITE SHEETS)



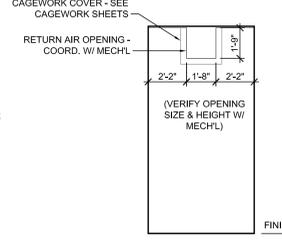
**B BEAR HOLDING FLOOR ELEVATION PLAN**  
SCALE: 1/4" = 1'-0"



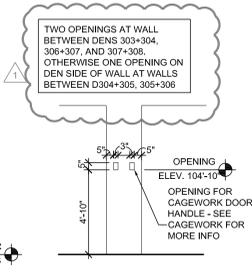
**1 INT. ELEV.**  
SCALE: 1/4" = 1'-0"



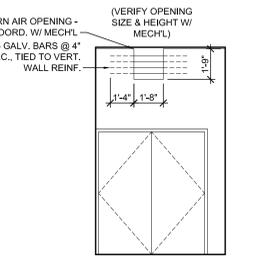
**2 INT. ELEV.**  
SCALE: 1/4" = 1'-0"



**3 INT. ELEV.**  
SCALE: 1/4" = 1'-0"



**4 INT. ELEV.**  
SCALE: 1/4" = 1'-0"



**5 INT. ELEV.**  
SCALE: 1/4" = 1'-0"

SYMBOLS LEGEND	
[Symbol]	EXTERIOR METAL STUD WALL W/ METAL PANEL SIDING
[Symbol]	INTERIOR METAL STUD WALL
[Symbol]	CAST-IN-PLACE CONCRETE WALL, TOP OF WALL = ELEV. 103'-4"
[Symbol]	8" CMU MASONRY WALL
[Symbol]	PRE-CAST CONCRETE PANEL WALL
[Symbol]	CAST IN PLACE WALL PER STRUCTURAL
[Symbol]	CAGework (SHOWN SHADED) - SEE CAGework DRAWINGS
[Symbol]	T.D. TRENCH DRAIN - REF. PLUMB'G
[Symbol]	F.D. FLOOR DRAIN - REF. PLUMB'G
[Symbol]	D.S. DOWNSPOUT
[Symbol]	WINDOW TAG - SEE WINDOW TYPES
[Symbol]	DOOR TAG - SEE DOOR SCHED. LEGEND
[Symbol]	KEYNOTE - SEE KEYNOTE LEGEND
[Symbol]	RESTROOM KEYNOTE - SEE PARTITION SCHEDULE
[Symbol]	DETAIL - AS REFD
[Symbol]	CEILING HEIGHT
[Symbol]	ROOM NAME
[Symbol]	ROOM NUMBER
[Symbol]	ELEVATION TAG - AS REFD
[Symbol]	COLUMN / WALL GRID LINE & TAG
[Symbol]	ROOF DRAIN
[Symbol]	OVERFLOW ROOF DRAIN

**wcm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

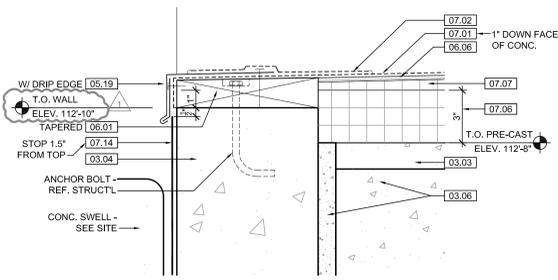
**we do more**  
**henry vilas ZOO**

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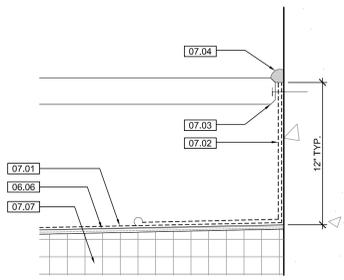
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WDM No. 13046  
drawn: DS  
checked: SR  
BEAR HOLDING FLOOR PLAN  
BEAR HOLD. FINISH SCHEDULE

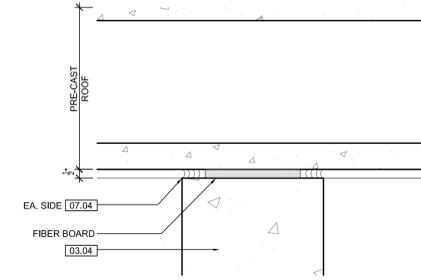
**A3.1**  
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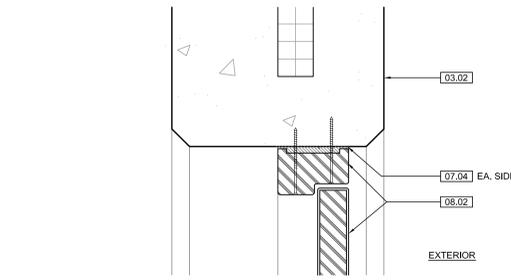
**5 BEAR BLDG. DETAIL**  
SCALE: 3" = 1'-0"



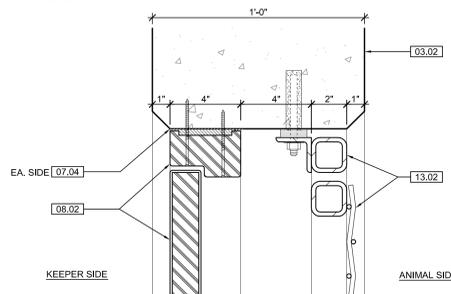
**6 BEAR BLDG. DETAIL**  
SCALE: 3" = 1'-0"



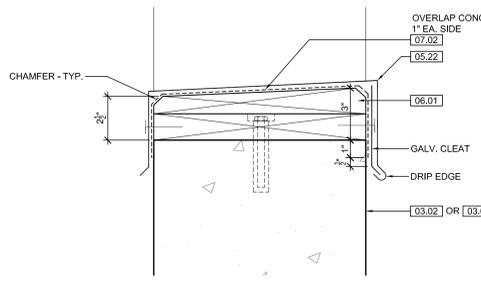
**7 BEAR BLDG. DETAIL**  
SCALE: 3" = 1'-0"



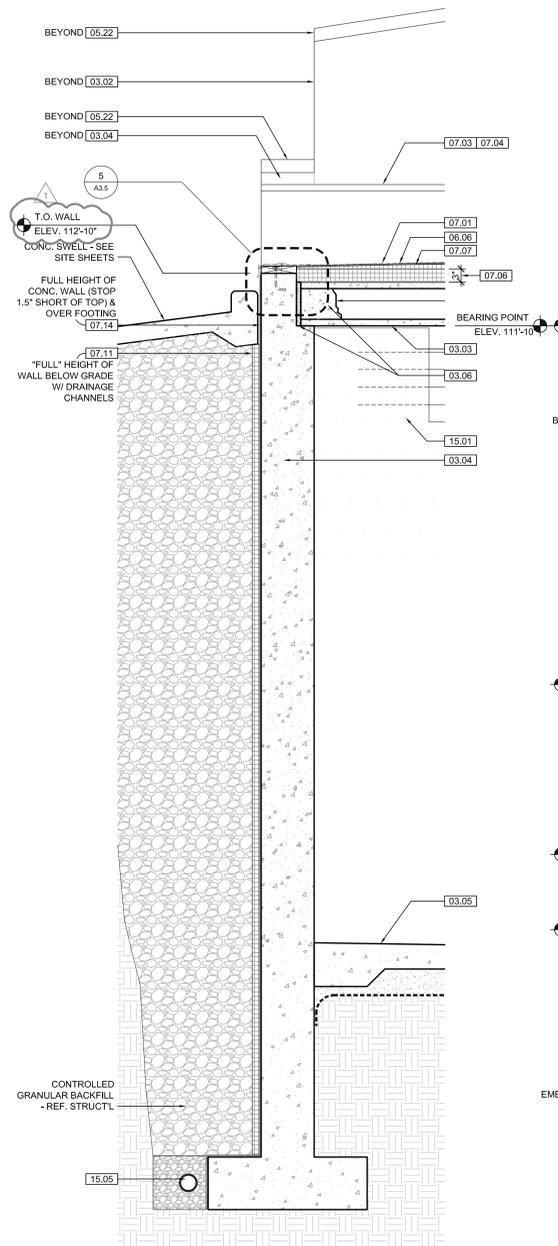
**8 DOOR DETAIL**  
SCALE: 3" = 1'-0"



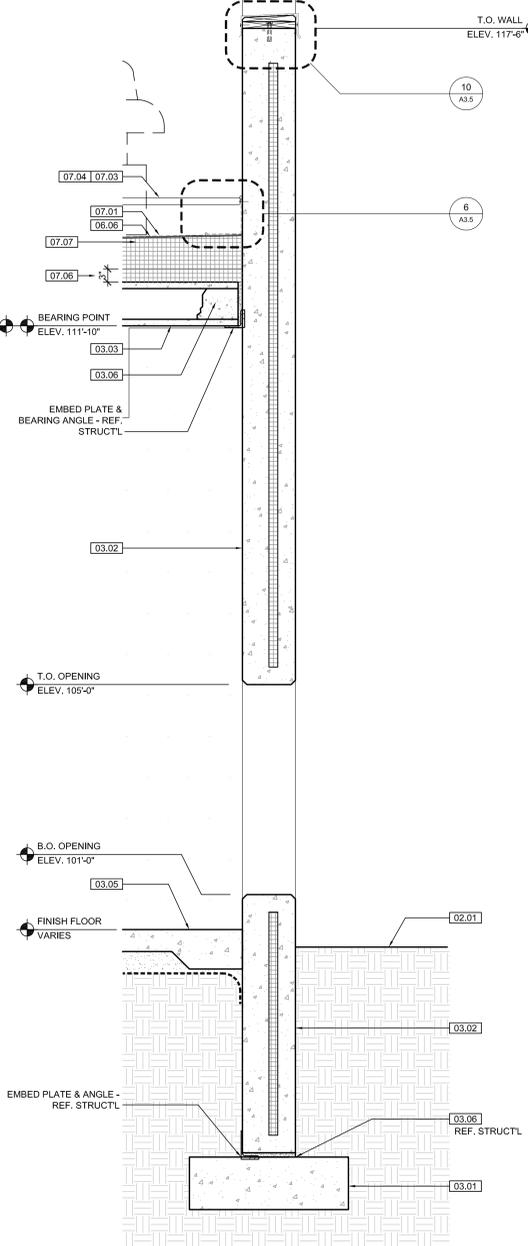
**9 DOOR DETAIL**  
SCALE: 3" = 1'-0"



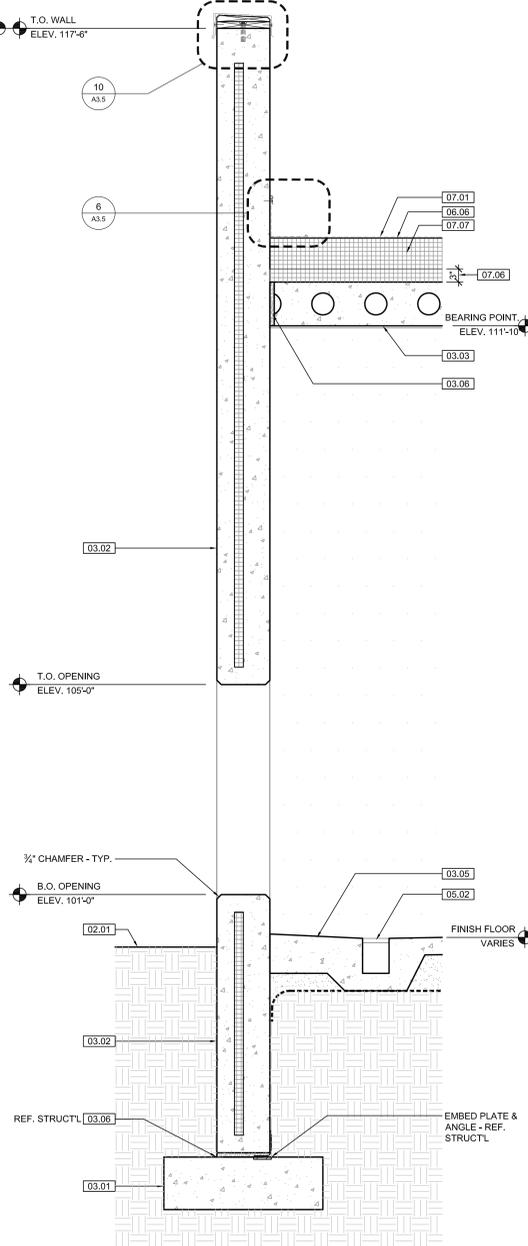
**10 PARAPET DETAIL**  
SCALE: 3" = 1'-0"



**1 BEAR HOLDING WALL SECTION**  
SCALE: 1/4" = 1'-0"



**2 BEAR HOLDING WALL SECTION**  
SCALE: 1/4" = 1'-0"



**3 BEAR HOLDING WALL SECTION**  
SCALE: 1/4" = 1'-0"

**4 NOT USED**  
SCALE: 1/4" = 1'-0"

KEYNOTE LEGEND: BUILDING ELEVATIONS, SECTIONS, WALL SECTIONS, & DETAILS	
<b>Division 01 - Existing Construction</b>	<b>07.10</b> BATT INSULATION: R-19 MIN. TYPICAL OR AS NOTED
<b>01.01</b> XXX	<b>07.11</b> FOUNDATION INSULATION 48" BELOW GRADE
<b>Division 02 - Site Construction</b>	<b>07.12</b> EXPANSION JOINT
<b>02.01</b> GRADE - SEE SITE SHEETS	<b>07.13</b> E.J. MATERIAL
<b>02.02</b> SIDEWALK OR SITE PAVING - SEE SITE SHEETS	<b>07.14</b> COLD APPLIED WATER PROOFING
<b>02.03</b> 1/2" E.J. W/ 1/2" FIBER BD. & SELF LEVELING SEALANT	<b>07.15</b> 6" EXPANDABLE WATER STOP
<b>02.04</b> SITE WALL - SEE SITE SHEETS	<b>07.16</b> 1 1/2" RIGID EPS INTERIOR INSULATION WITH FURRING AS REQUIRED
<b>02.05</b> SITE STAIR / RAMP / DOCK - SEE SITE SHEETS	<b>07.17</b> SPRAY FOAM INSULATION R-30
<b>02.06</b> CONTAINMENT FENCE - SEE SITE SHEETS	<b>Division 08 - Doors &amp; Windows</b>
<b>02.07</b> TRENCH DRAIN - SEE SITE SHEETS	<b>08.01</b> HOLLOW METAL DOOR / FRAME - SEE DOOR SCHEDULE
<b>02.08</b> HANDRAIL - SEE SITE SHEETS	<b>08.02</b> F.R.P. DOOR / FRAME - SEE DOOR SCHEDULE
<b>Division 03 - Concrete</b>	<b>08.03</b> HOLLOW METAL WINDOW - SEE WINDOW TYPES
<b>03.01</b> CONC. FOUNDATION / FOOTING - REF. STRUCTL.	<b>08.04</b> STOREFRONT WINDOW / DOOR - SEE WINDOW TYPES
<b>03.02</b> PRE-CAST CONCRETE WALL - REF. STRUCTL.	<b>08.05</b> PRE-FINISHED BREAK METAL - MATCH STOREFRONT FINISH
<b>03.03</b> PRE-CAST HOLLOW CORE CONC. ROOF SLAB - REF. STRUCTL.	<b>08.06</b> GLASS / ACRYLIC - SEE WINDOW TYPES
<b>03.04</b> CAST-IN-PLACE CONCRETE WALL - REF. STRUCTL.	<b>08.07</b> SKYLIGHT - SEE SPEC.
<b>03.05</b> REINF. CONC. SLAB ON GRANULAR FILL OVER VAPOR BARRIER - REF. STRUCTL. & GEOTECH REPORT	<b>Division 09 - Finishes</b>
<b>03.06</b> GROUT FILL - REF. STRUCTL.	<b>09.01</b> 1/2" GYP. BD. (OR AS INDICATED)
<b>Division 04 - Masonry</b>	<b>09.02</b> LAY-IN CEILING - SEE R.C.P.
<b>04.01</b> CMU - 8"x8"x16" NORMAL WEIGHT (OR AS NOTED) - REF. STRUCTL.	<b>09.03</b> MILLWORK / CASEWORK - SEE MILLWORK SHEETS
<b>Division 05 - Metals</b>	<b>09.04</b> SOLID SURFACE - SEE FIN. SCHED.
<b>05.01</b> STEEL BEAM / JOIST / TRUSS - REF. STRUCTL.	<b>09.05</b> PAINT
<b>05.02</b> STEEL COLUMN - REF. STRUCTL.	<b>Division 10 - Specialties</b>
<b>05.03</b> STEEL TUBE (SIZE AS NOTED) - REF. STRUCTL.	<b>10.01</b> THEMWORK - SEE THEMWORK SHEETS
<b>05.04</b> STEEL ANGLE (SIZE AS NOTED) - REF. STRUCTL.	<b>10.02</b> SNOW GUARDS - PER MANUF. RECOMMENDED LAYOUT - COLOR TO MATCH ROOF
<b>05.05</b> STEEL PLATE (SIZE AS NOTED) - REF. STRUCTL.	<b>Division 11 - Equipment</b>
<b>05.06</b> STEEL LINTEL - REF. STRUCTL.	<b>11.01</b> KITCHEN EQUIPMENT - SEE KITCHEN EQUIPMENT SHEETS
<b>05.07</b> METAL ROOF DECK - REF. STRUCTL.	<b>11.02</b> EQUIPMENT BY OWNER - N.I.C.
<b>05.08</b> 3/8" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>11.03</b> WATER STORAGE SILO - SEE SITE SHEETS (ANY PAINTED SIGNAGE BY OWNER)
<b>05.09</b> 1/2" METAL STUD FRAMING @ 16" O.C. - REF. STRUCTL.	<b>Division 12 - Furnishings</b>
<b>05.10</b> PRE-FINISHED METAL SOFFIT PANEL	<b>12.01</b> XXX
<b>05.11</b> METAL FRAMING AS REOD	<b>Division 13 - Special Construction</b>
<b>05.12</b> HEADER - REF. STRUCTL.	<b>13.01</b> 2"x2"x1/2" S.S. WOVEN WIRE MESH W/ BLACK OXIDE FINISH - SEE TYP. DETAIL F/SA7.1
<b>05.13</b> COLD ROLLED METAL JOISTS @ 16" O.C. (SIZE AS INDIC'D) - REF. STRUCTL.	<b>13.02</b> CAGEWORK: 3/4" LACING BAR - SEE DETAILS FOR STANDOFF LOGNS.
<b>05.14</b> PRE-FINISHED HORIZONTAL METAL PANEL SIDING	<b>13.03</b> CAGEWORK: SEE CAGEWORK SHEETS
<b>05.15</b> PRE-FINISHED VERTICAL METAL PANEL SIDING	<b>13.04</b> SIGNAGE (BY OWNER) - COORDINATE MOUNTING & ELECTRICAL REQUIREMENTS
<b>05.16</b> PRE-FINISHED STANDING SNAP ON SEAM CURVED METAL ROOF	<b>Division 14 - Conveying Systems</b>
<b>05.17</b> GALV. CORRUGATED METAL ROOFING	<b>14.01</b> XXX
<b>05.18</b> FURRING PER METAL SIDING MANUF. RECOMMENDATION	<b>Division 15 - Mechanical</b>
<b>05.19</b> PRE-FINISHED MTL. FLASHING	<b>15.01</b> HVAC UNIT / EQUIPMENT / DUCT - REF. MECHL.
<b>05.20</b> PRE-FINISHED MTL. SILL FLASHING	<b>15.02</b> PLUMBING EQUIPMENT / LINE / FLOOR DRAIN - REF. PLUMB'G
<b>05.21</b> PRE-FINISHED MTL. FASCIA	<b>15.03</b> HOSEBIB - REF. PLUMB'G
<b>05.22</b> PRE-FINISHED MTL. PARAPET FLASHING	<b>15.04</b> BEAR YARD FAN & DUCTWORK: MAIN DUCT IS 8" PVC PIPE W/ 3" PVC PIPE VENTS @ 12" O.C. - DUCTWORK CAST INTO CONC. WALL. REFERENCE MECHANICAL SHEETS FOR FAN EQUIPMENT.
<b>05.23</b> PRE-FIN. METAL GUTTER OR CONDUCTOR HEAD & DOWNSPOUT	<b>15.05</b> 12" LAYER CRUSHED CLEAR STONE, SURROUNDED BY NON-WOVEN GEO-TEXTILE FABRIC W/ SLOTTED DRAIN TILE
<b>05.24</b> GALV. 6" HALF ROUND GUTTER & 3" DIAM. DOWNSPOUT	<b>Division 16 - Electrical</b>
<b>05.25</b> PRE-FIN. METAL TRIM - PER SIDING MANUFACTURER'S INSTALLATION INSTRUCTIONS	<b>16.01</b> LIGHT FIXTURE - REF. ELECTL.
<b>Division 06 - Wood &amp; Plastics</b>	<b>16.02</b> ELECTRICAL OUTLET - REF. ELECTL.
<b>06.01</b> BLOCKING, 2X OR SIZE AS INDIC'D - SEE SPEC	<b>16.03</b> LIGHT SWITCH - REF. ELECTL.
<b>06.02</b> WOOD TRIM, 1X OR SIZE AS INDIC'D - SEE SPEC	
<b>06.03</b> WOOD BEAM / JOISTS - REF. STRUCTL.	
<b>06.04</b> WOOD COLUMN - REF. STRUCTL.	
<b>06.05</b> PLYWOOD SHEATHING - 3/4" OR SIZE AS INDIC'D	
<b>06.06</b> 1/2" GLASS-MAT ROOF COVER BD.	
<b>06.07</b> 3/4" GLASS-MAT SHEATHING SHEATHING	
<b>06.08</b> ROOF SHEATHING - REF. STRUCTL.	
<b>06.09</b> 2x FASCIA OR SIZE AS INDIC'D	
<b>06.10</b> 6" CEDAR SHIPLAP SIDING ON 1X SLEEPERS	
<b>06.11</b> CEDAR TRIM	
<b>Division 07 - Thermal &amp; Moisture</b>	
<b>07.01</b> FULLY ADHERED T.P.O. MEMBRANE ROOFING	
<b>07.02</b> FULLY ADHERED T.P.O. FLASHING STRIP	
<b>07.03</b> TERMINATION BAR	
<b>07.04</b> SEALANT	
<b>07.05</b> CONTINUOUS BACKER ROD (DOUBLE WHERE NOTED)	
<b>07.06</b> RIGID BASE INSULATION, 3" MIN. AT BEAR & SEAL HOLDING, 4" MIN. AT RESTAURANT (OR THICKNESS & R-VALUE AS INDICATED)	
<b>07.07</b> TAPERED INSULATION, 1/2" MIN.	
<b>07.08</b> ICE & WATER SHIELD	
<b>07.09</b> WEATHER BARRIER	

**NOTE**  
BEAR HOLDING FINISH FLOOR ELEVATION 107'-0" (AS USED IN THESE 'A' SHEETS) EQUALS SITE ELEVATION 114.30 (VERIFY W/ SITE SHEETS)



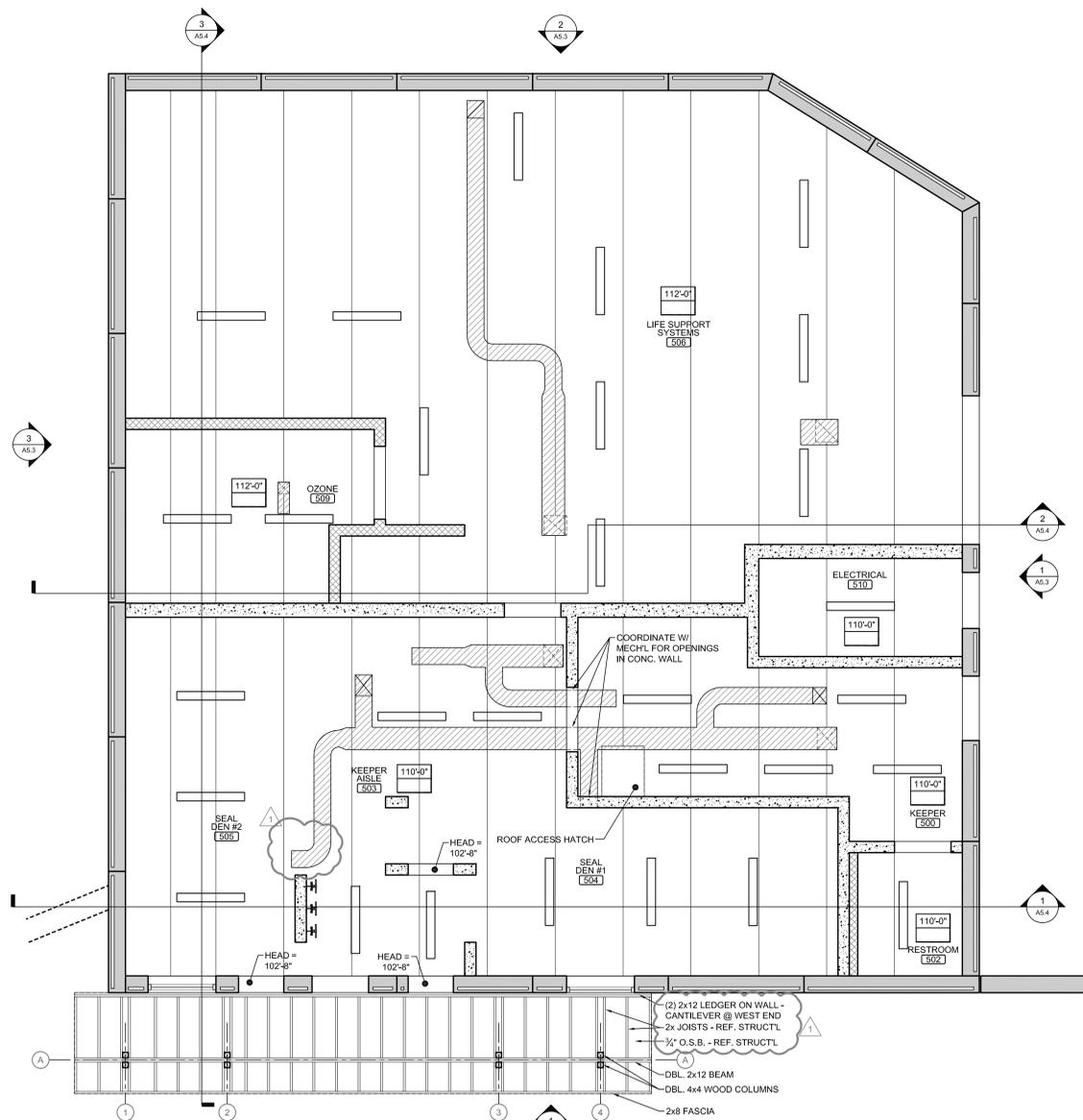
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105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

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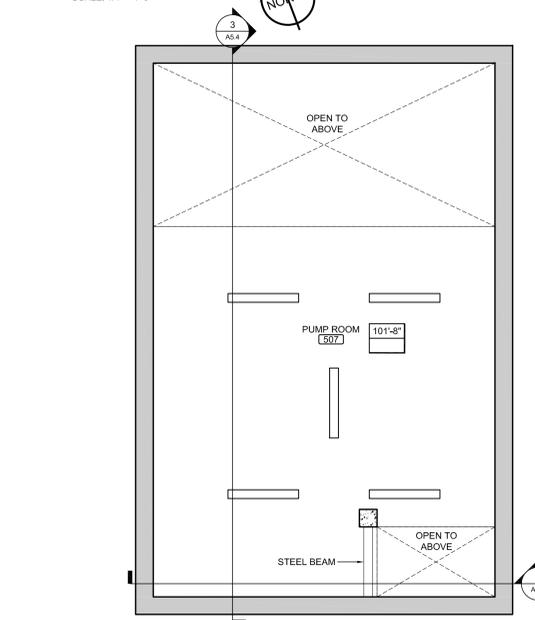
WDM No. 13046  
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checked: SR

BEAR HOLDING SECTIONS  
**A3.5**



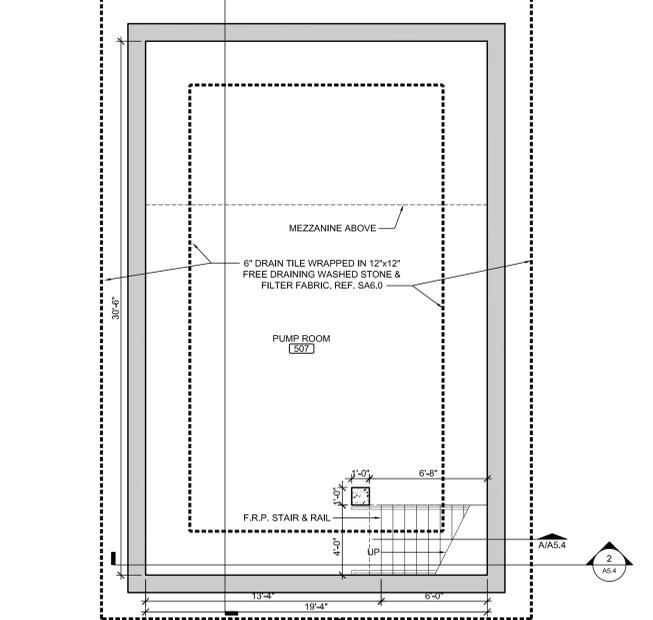
**B** SEAL HOLDING / LIFE SUPPORT BUILDING RCP

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



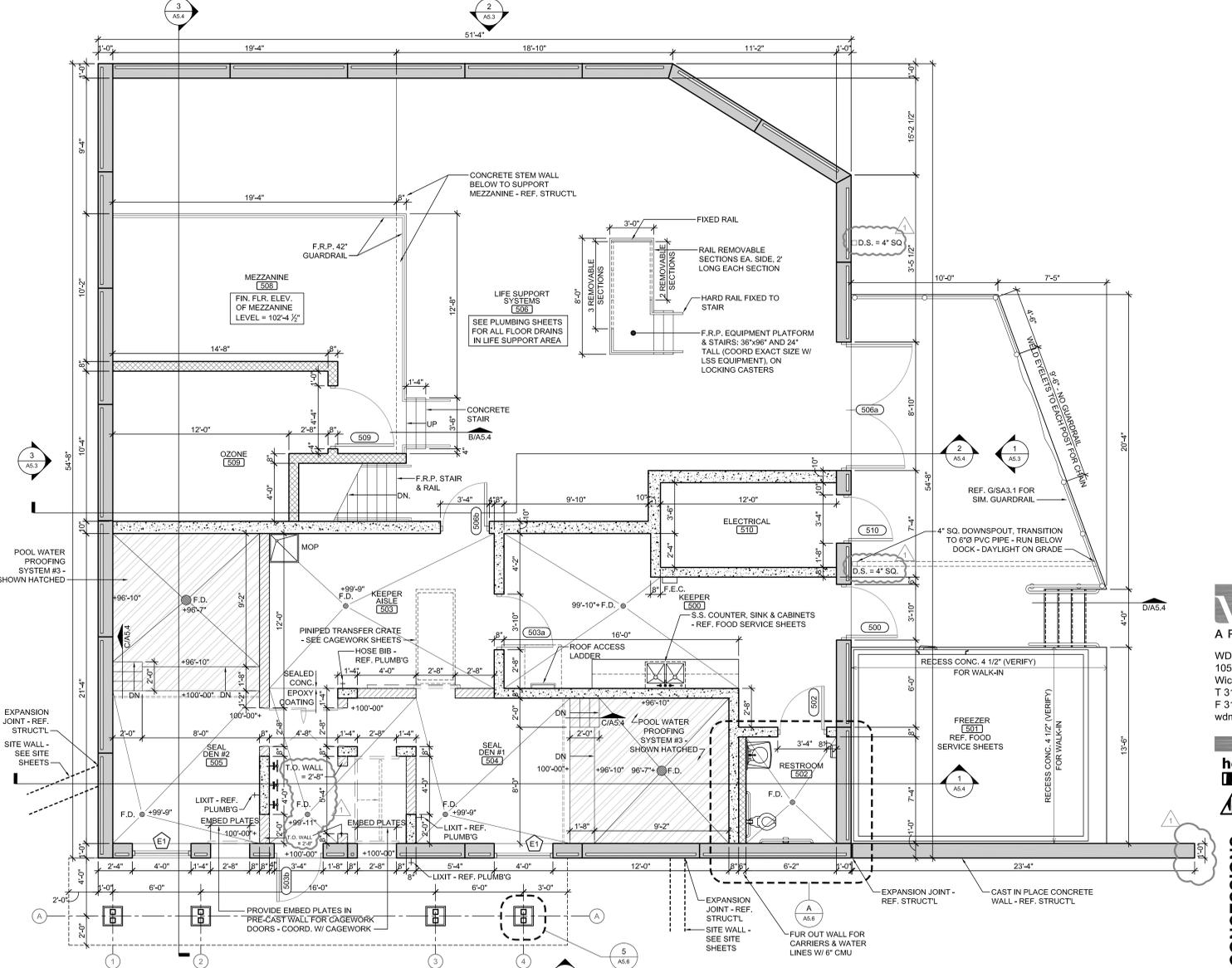
**D** SEAL HOLDING / LIFE SUPPORT BUILDING LOWER LVL RCP

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



**C** SEAL HOLDING / LIFE SUPPORT BUILDING LOWER LEVEL PLAN

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



**A** SEAL HOLDING / LIFE SUPPORT BUILDING FLOOR PLAN

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

FINISH SCHEDULE		ALTERNATE #7	NOTE
ALL WALLS	SPECIAL COATING, SC-1, TINTED	ROOMS 500, 502, 503, 504, 505	SEAL HOLDING FINISH FLOOR ELEVATION 110'-0" (AS USED IN THESE 'A' SHEETS) EQUALS SITE ELEVATION 114'-0" (VERIFY W/ SITE SHEETS)
ALL CEILINGS (CONC. STRUCTURE)	SPECIAL COATING, SC-1	DEDUCT THE FOLLOWING: EPOXY COATING ON WALLS & CEILING EPOXY FLOOR COATING IN 503, 504, 505 POOL WATER PROOFING 504, 505	
CONC. FLOOR (RMS #504, 505 & AISLE BETWEEN)	SPECIAL COATINGS, SC-1, TINTED, TROWELED SMOOTH FINISH		
POOLS #504 & 505	WATERPROOFING SYSTEM #3		
ALL OTHER FLOORS	SEALED CONCRETE		

SYMBOLS LEGEND	
[Symbol]	EXTERIOR METAL STUD WALL W/ METAL PANEL SIDING
[Symbol]	INTERIOR METAL STUD WALL
[Symbol]	CAST-IN-PLACE CONCRETE WALL, TOP OF WALL = ELEV. 103'-4" OR 2'-0" WHERE NOTED
[Symbol]	8" CMU MASONRY WALL
[Symbol]	PRE-CAST CONCRETE PANEL WALL
[Symbol]	CAST IN PLACE WALL PER STRUCTURAL
[Symbol]	CAGEWORK (SHOWN SHADED)- SEE CAGEWORK DRAWINGS
[Symbol]	TRENCH DRAIN - REF. PLUMB'G
[Symbol]	FLOOR DRAIN - REF. PLUMB'G
[Symbol]	D.S. DOWNSPOUT
[Symbol]	WINDOW TAG - SEE WINDOW TYPES
[Symbol]	DOOR TAG - SEE DOOR SCHED.
[Symbol]	KEYNOTE - SEE KEYNOTE LEGEND
[Symbol]	RESTROOM KEYNOTE - SEE RESTROOM KEYNOTE LEGEND
[Symbol]	PARTITION TAG - SEE PARTITION SCHEDULE
[Symbol]	DETAIL - AS REFD
[Symbol]	CEILING HEIGHT
[Symbol]	CEILING MATERIAL
[Symbol]	ROOM NAME
[Symbol]	ROOM NUMBER
[Symbol]	ELEVATION TAG - AS REFD
[Symbol]	COLUMN / WALL GRID LINE & TAG
[Symbol]	ROOF DRAIN
[Symbol]	OVERFLOW ROOF DRAIN

**wcm ARCHITECTS**

WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

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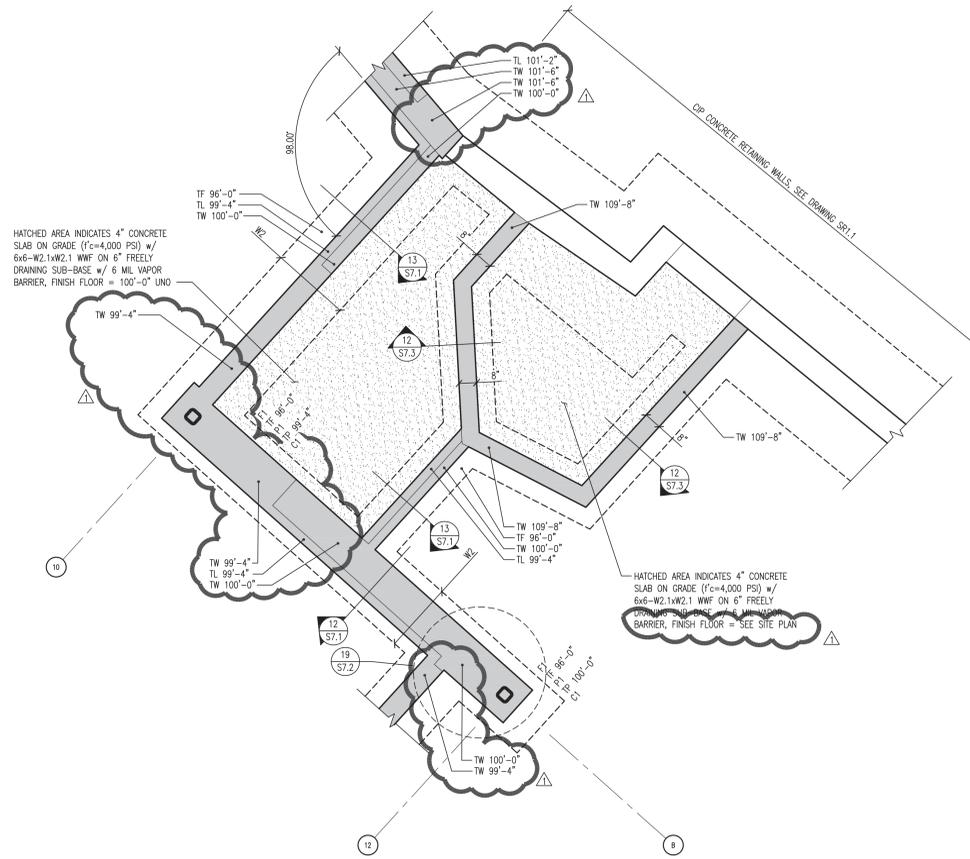




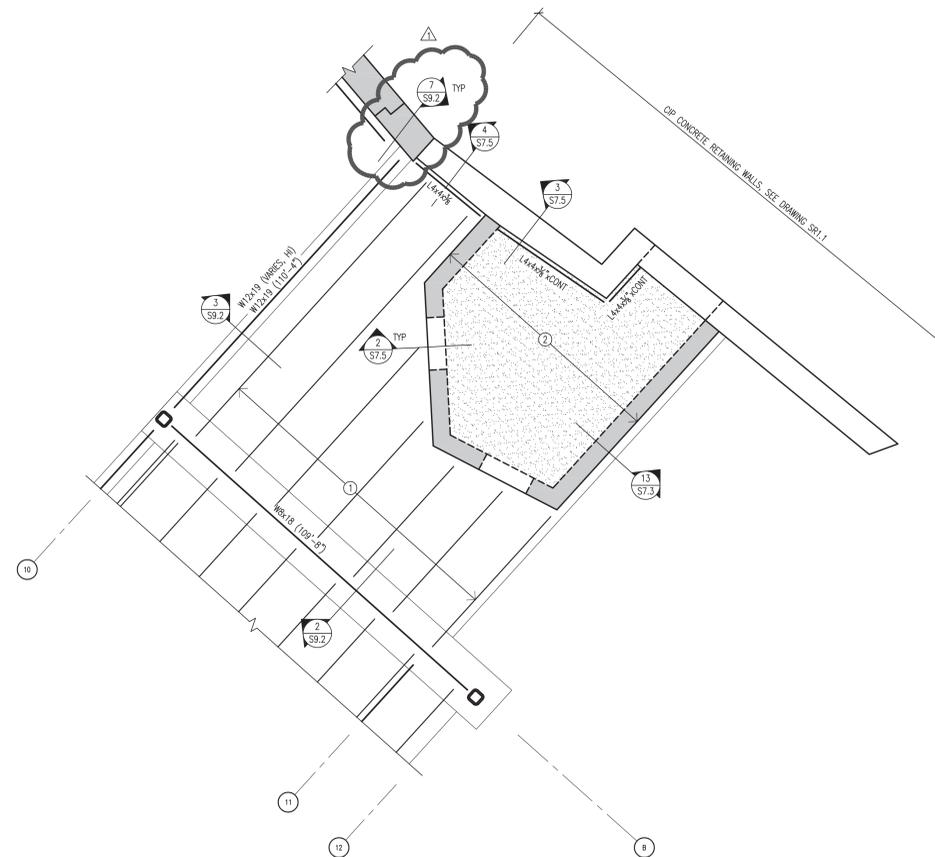


PLAN NOTES

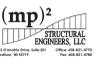
1. SEE SHEET S001 FOR ADDITIONAL NOTES.
2. ① 800S162-68 COLD FORM ROOF JOISTS @ 24"oc w/ 20 GA 1.5 B-DECK (D1)
3. ② 8" CAST-IN-PLACE STEEL REINFORCED SLAB



1 DEN FOUNDATION PLAN  
S2.1 SCALE: 3/8"=1'-0"



2 DEN ROOF FRAMING PLAN  
S2.1 SCALE: 3/8"=1'-0"



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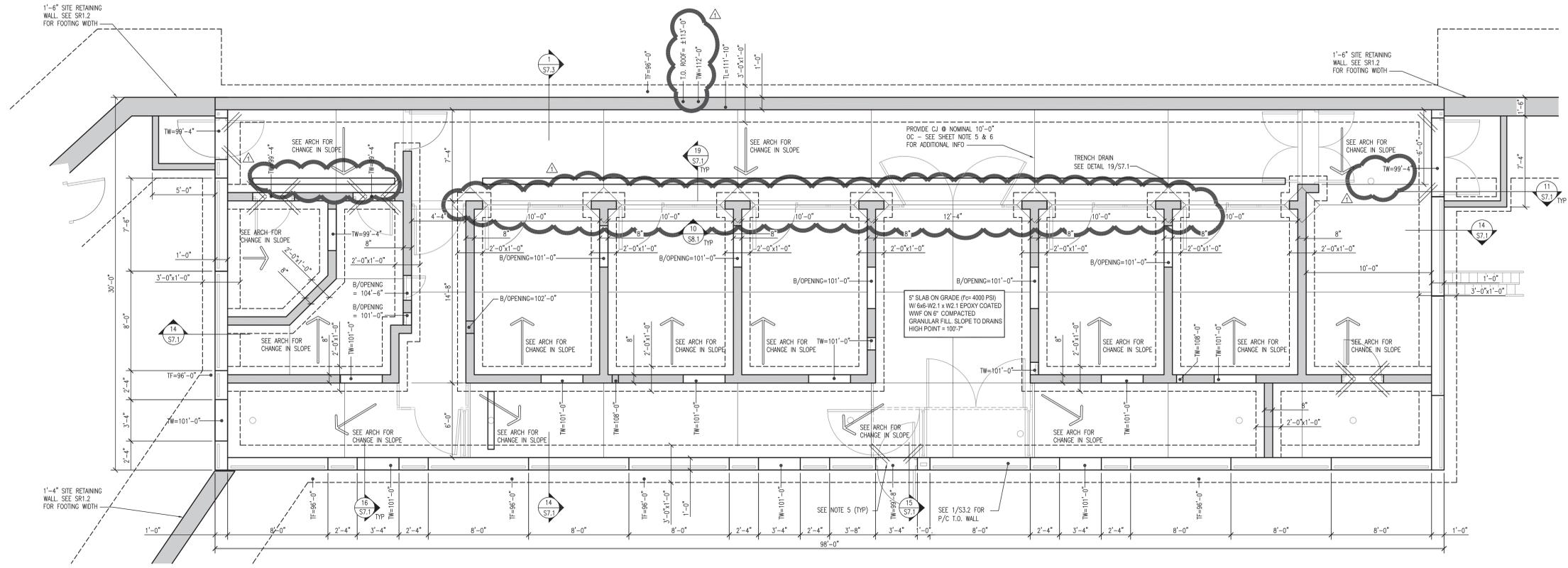
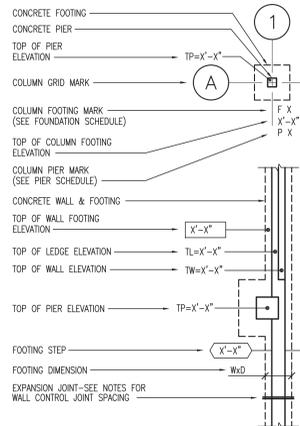
WDM No. 13046  
drawn: MP2  
checked: MP2  
DEN FOUNDATION PLAN  
DEN ROOF FRAMING PLAN

S2.1

**PLAN NOTES**

- SEE SHEET S0.1 FOR ADDITIONAL NOTES.
- SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
- SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION WALL CORNER REINFORCING.
- SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
- PROVIDE 2-#4 BARS AT ALL DEAD ENDS & REINTRANT CORNERS. SEE DETAIL 6/S7.1.
- SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'-0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
- SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
- SITE PLAN DATUM ELEVATION: 114.30' = 100'-0"
- SLOPE DRAIN AND MAINTAIN MINIMUM THICKNESS SHOWN. SEE A3.1 FOR FLOOR ELEVATIONS.
- SEE ARCH FOR ALL WALL OPENING LOCATIONS & DIMENSIONS.
- SEE A3.1 FOR WALL OPENING DETAILS NOT SPECIFICALLY SHOWN ON THIS SHEET.
- ALL BACKFILL AT FOUNDATION WALLS WITH UNBALANCED FILL LEVELS MUST BE GRANULAR BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER TO NOT EXCEED LOADS ASSUMED ON SHEET O.1.

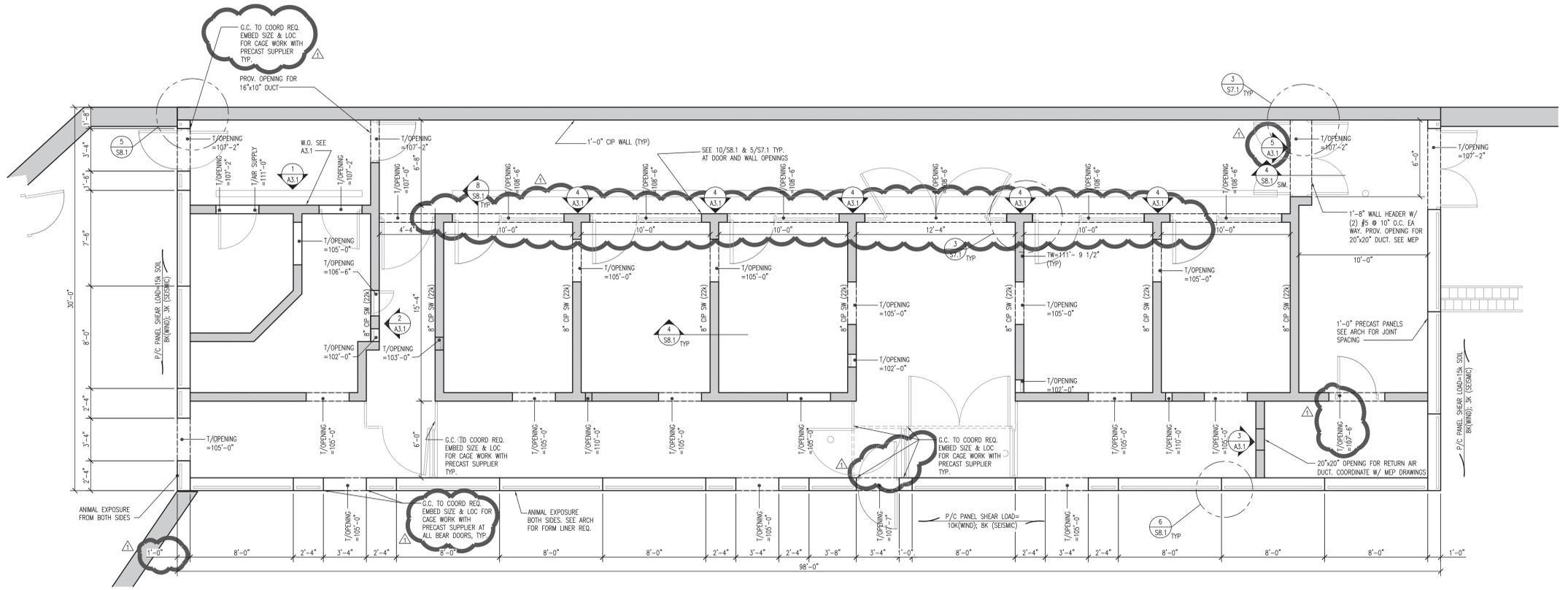
**FOUNDATION LEGEND**



**1 BEAR HOLDING FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"

**PRECAST FRAMING NOTES**

- SEE SHEET S0.1 FOR ADDITIONAL PRECAST REQUIREMENTS AND ENVIRONMENTAL LOADING REQUIREMENTS.
- STYLE OF PRECAST WALLS (SANDWICH PANEL OR INSULATED CORES) SHOWN AS CONCEPTUAL ONLY. ALL PRECAST WALL PANELS SHALL HAVE ARCHITECTURAL FINISH AND "R" INSULATION VALUES AS SPECIFIED BY ARCHITECT.
- PRECAST WYTHES EXPOSED TO ANIMAL ACTIVITY SHALL BE RIGID ENOUGH TO NOT CRACK WHEN ANIMAL LOADS ARE APPLIED (SEE NOTE 6 BELOW FOR LOADS).
- ALL PRECAST WALL PANELS EXPOSED TO ANIMAL ACTIVITY SHALL BE DESIGNED FOR ENVIRONMENTAL LOADS SHOWN ON SHEET S0.1 AND FOR (2) 2.0k IMPACT POINT LOADS APPLIED OVER A 0.5-52-FEET AREA AT 2'-0" APART AT ANY LOCATION IN THE BOTTOM 12'-0" ON THE EXTERIOR FACE OF THE WALL.
- PRECAST WALL SHALL BE DESIGNED AS SHEAR WALLS TO RESIST SOIL, WIND, SEISMIC FORCES PER PLAN.
- PROVIDE FORM LINER PER ARCHITECTURAL PLANS.
- ALL PRECAST WALLS TO EXTEND BELOW GRADE TO FOOTING TYP.
- G.C. TO COORDINATE REQUIRED EMBED PLATE SIZE AND LOCATION FOR CASTE WORK WITH PRECAST SUPPLIER AT ALL EXTERIOR DOORS AND ROOF PLANKS, TYP.



**2 BEAR HOLDING FRAMING PLAN**  
SCALE: 1/4"=1'-0"

**(mp)<sup>2</sup> STRUCTURAL ENGINEERS, LLC**  
**wdm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
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drawn: MP2  
checked: MP2  
BEAR HOLDING FOUNDATION PLAN & FRAMING PLAN

**S3.1**

**PLAN NOTES**

- SEE SHEET S.01 FOR ADDITIONAL NOTES.
- SEE ARCH FOR P/C WALL ELEVATIONS. ARCH DRAWINGS SHALL GOVERN FOR ANY DISCREPANCY IN ELEVATIONS.
- SEE ARCH AND MEP DRAWINGS FOR ALL ROOF OPENINGS AND NETU WEIGHTS.
- ALL SIMPSON WOOD CONNECTORS TO BE (ZMAX) COATED.
- SEE DETAIL 4 SHEET S10.1 FOR WOOD FASTENER SCHEDULE.
- G.C. TO COORDINATE REQUIRED EMBED PLATE SIZE AND LOCATION FOR CAGE WORK WITH PRECAST SUPPLIER AT ROOF PLANKS, TYP.

2x12 LEDGER TREATED  
MOUNT TO WALL W/ (2) 3/4" CALV. EPOXY  
ANCHORS @ 2'-0" O.C. (6" EMBED)

SIMPSON LUS28 (SLOPED)  
JOIST HANGER (ZMAX)

1 1/2" OSB EXTERIOR 1 W/  
METAL PANEL PER ARCH

BLOCKING

(2) 2x8 @ 24" O.C. TREATED

(2) 2x10 HEADER, TREATED

T.O. PARAPET = 115'-0" EXTEND IN 1FT  
FROM EDGE OF ROOF (VERIFY WITH ARCH)  
SEE DETAIL 5/S7.1 FOR ADDED BARS

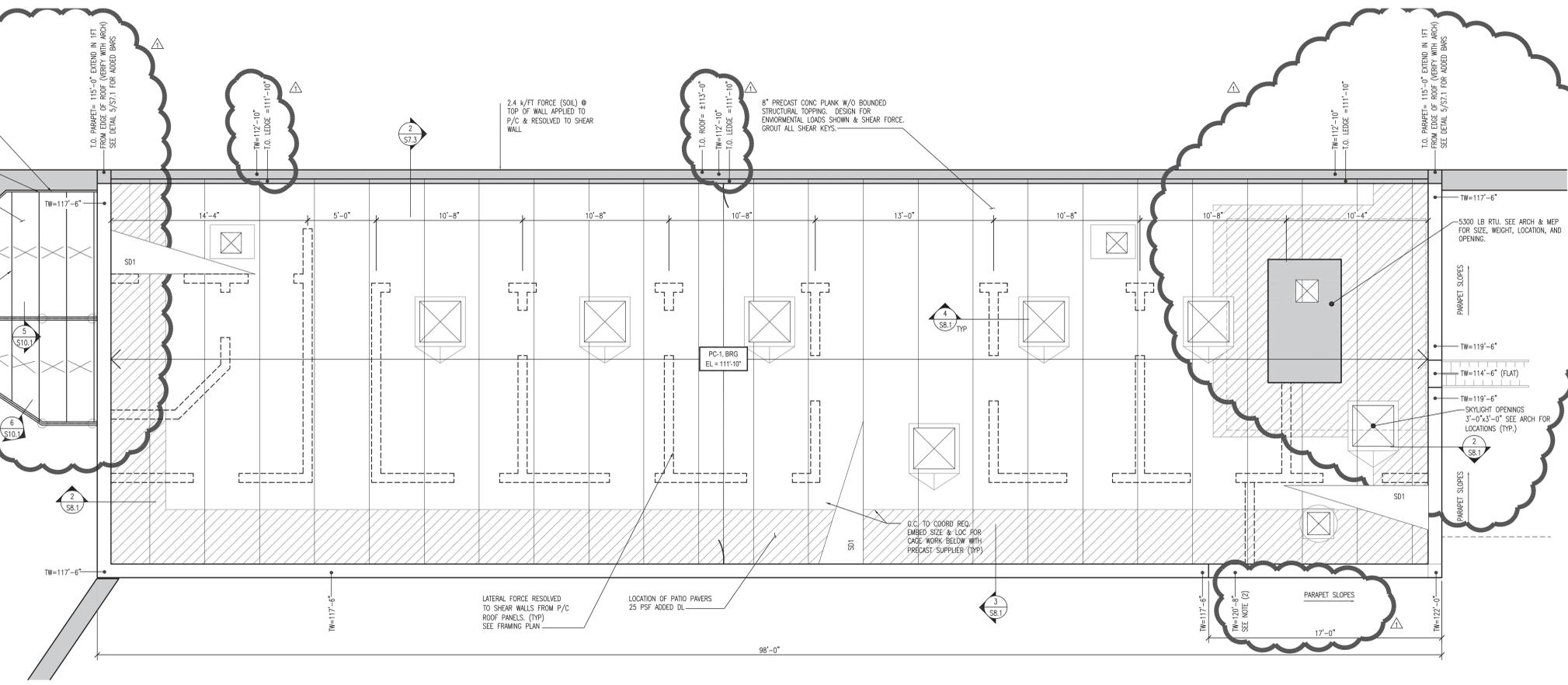
2.4 K/FT FORCE (SOIL) @  
TOP OF WALL APPLIED TO  
P/C & RESOLVED TO SHEAR  
WALL

8" PRECAST CONG PLANK W/O BOUNDED  
STRUCTURAL TOPPING. DESIGN FOR  
ENVIRONMENTAL LOADS SHOWN & SHEAR FORCE.  
GROUT ALL SHEAR KEYS.

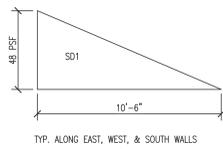
T.O. PARAPET = 115'-0" EXTEND IN 1FT  
FROM EDGE OF ROOF (VERIFY WITH ARCH)  
SEE DETAIL 5/S7.1 FOR ADDED BARS

MARK	PLANK DEPTH	TOPPING	LOAD INFORMATION			P/C BEARING ELEVATION
			DL & CC (psf)	LL (psf)	SL (psf)	
PC-1	10"	NONE	SELF WT. + 20	20	23.1 + DRIFT	111'-10"

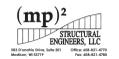
- NOTES:**
- SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.
  - GROUT ALL SHEAR KEYS FOR RIGID DIAPHRAGM.
  - PC SUPPLIER TO DESIGN FOR WEIGHT OF MECHANICAL UNITS, COORDINATE SIZE, LOCATION AND OPENINGS WITH MEP AND ARCH DRAWINGS.
  - PC SUPPLIER TO DESIGN FOR ADDED WALKWAY PAVERS AS SHOWN.
  - ROOF PLANK MUST BE DESIGNED TO TRANSMIT TOP OF NORTH WALL SOIL FORCE TO SHEAR WALLS.



**SNOW LOADING**



**BEAR HOLDING ROOF PLAN**  
SCALE: 1/4"=1'-0"



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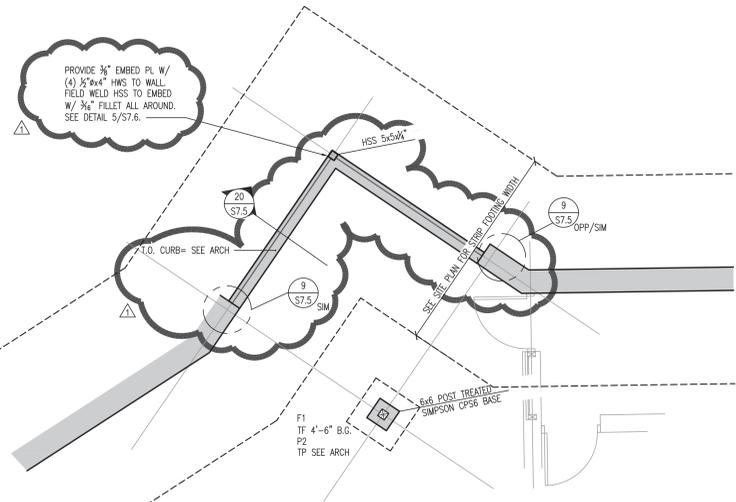
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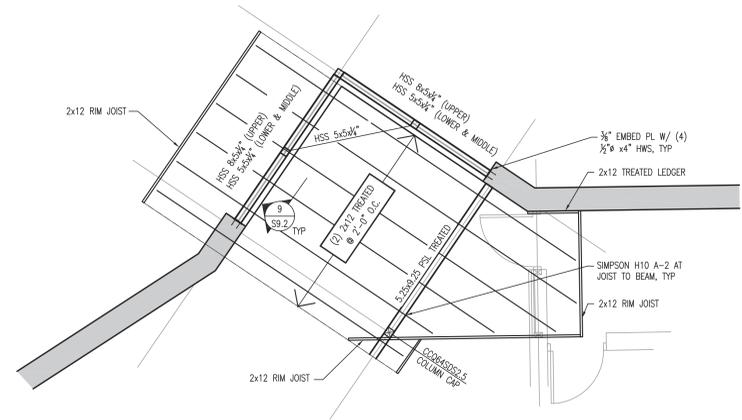
BEAR HOLDING  
ROOF FRAMING PLAN

**S3.2**

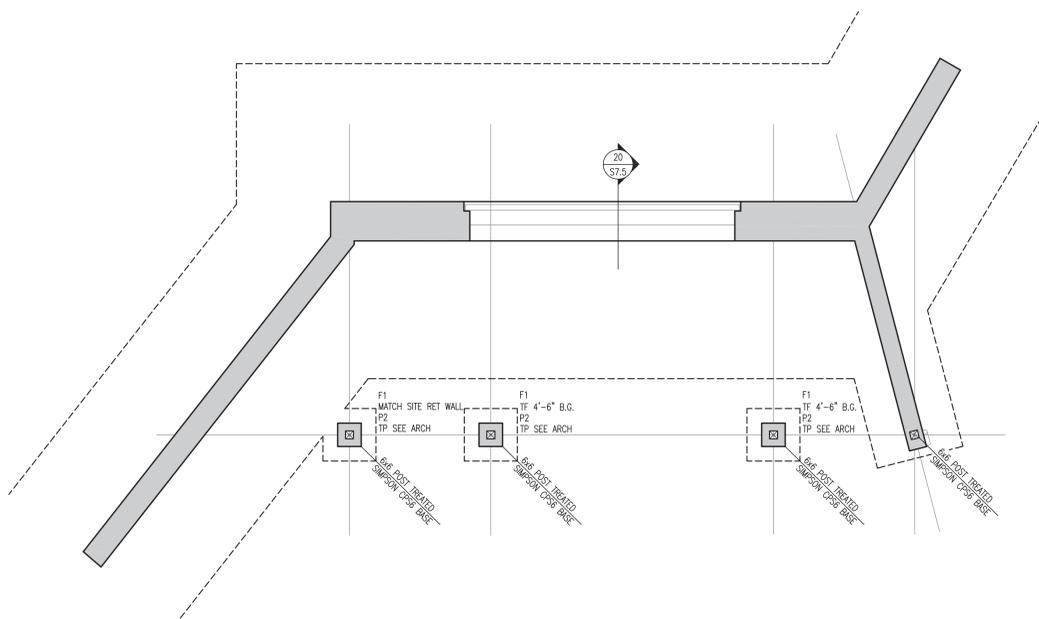
- PLAN NOTES**
- SEE SHEET S.01 FOR ADDITIONAL NOTES.
  - SEE ARCH FOR JOIST BEARING ELEVATION.
  - ROOF SHEATHING SHALL BE 1/2" APA RATED EXTERIOR GRADE. FASTEN TO FRAMING PER DETAIL 4 ON SHEET S10.1.
  - SEE DETAIL 4 SHEET S10.1 FOR WOOD FASTENER SCHEDULE.



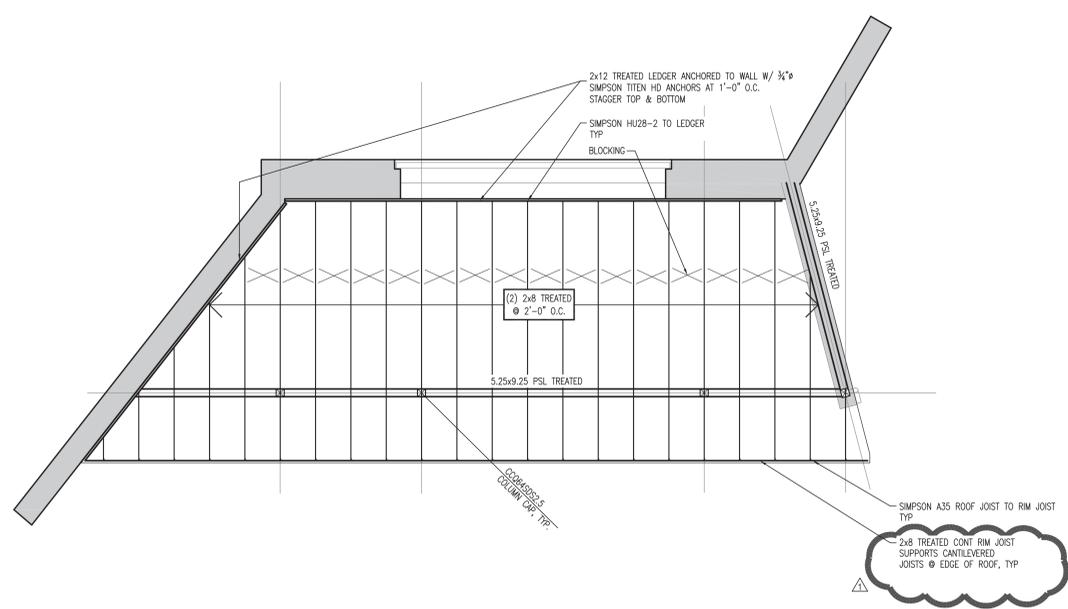
**1 BEAR EAST VIEWING FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**2 BEAR EAST VIEWING ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**3 BEAR UNDERWATER VIEWING FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



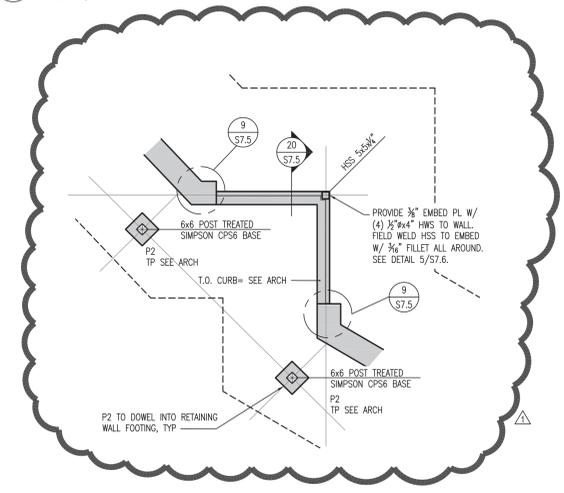
**4 BEAR UNDERWATER VIEWING FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"

FOOTING SCHEDULE		
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM
F1	3'-0" x 3'-0" x 1'-0"	3-#5 EA WAY

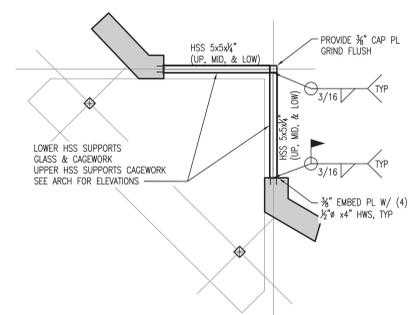
1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

PIER SCHEDULE			
PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE
P2	16"x16"	4-#6 VERT W/ #3 TIES @ 10"OC W/ (3) #3 TIES IN TOP 8"	A

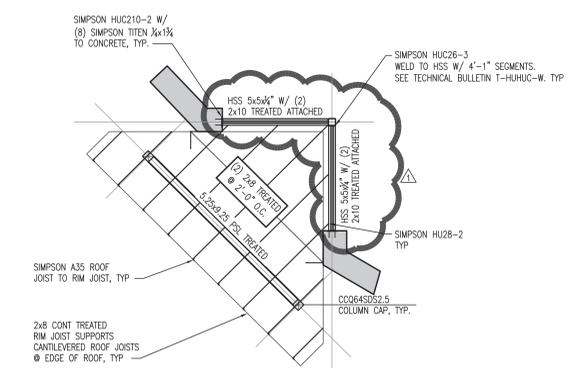
1. CENTER PIER UNDER COLUMN UNLESS NOTED OTHERWISE.



**5 BEAR WEST VIEWING FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"



**6 BEAR WEST VIEWING- GLASS & CAGWORK**  
SCALE: 1/4"=1'-0"



**7 BEAR WEST VIEWING ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

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RFB No. 313086  
Henry Vilas Zoo - County of Dane  
Department of Public Works  
702 S Randall Ave  
Madison, Wisconsin

**PRINTS ISSUED**  
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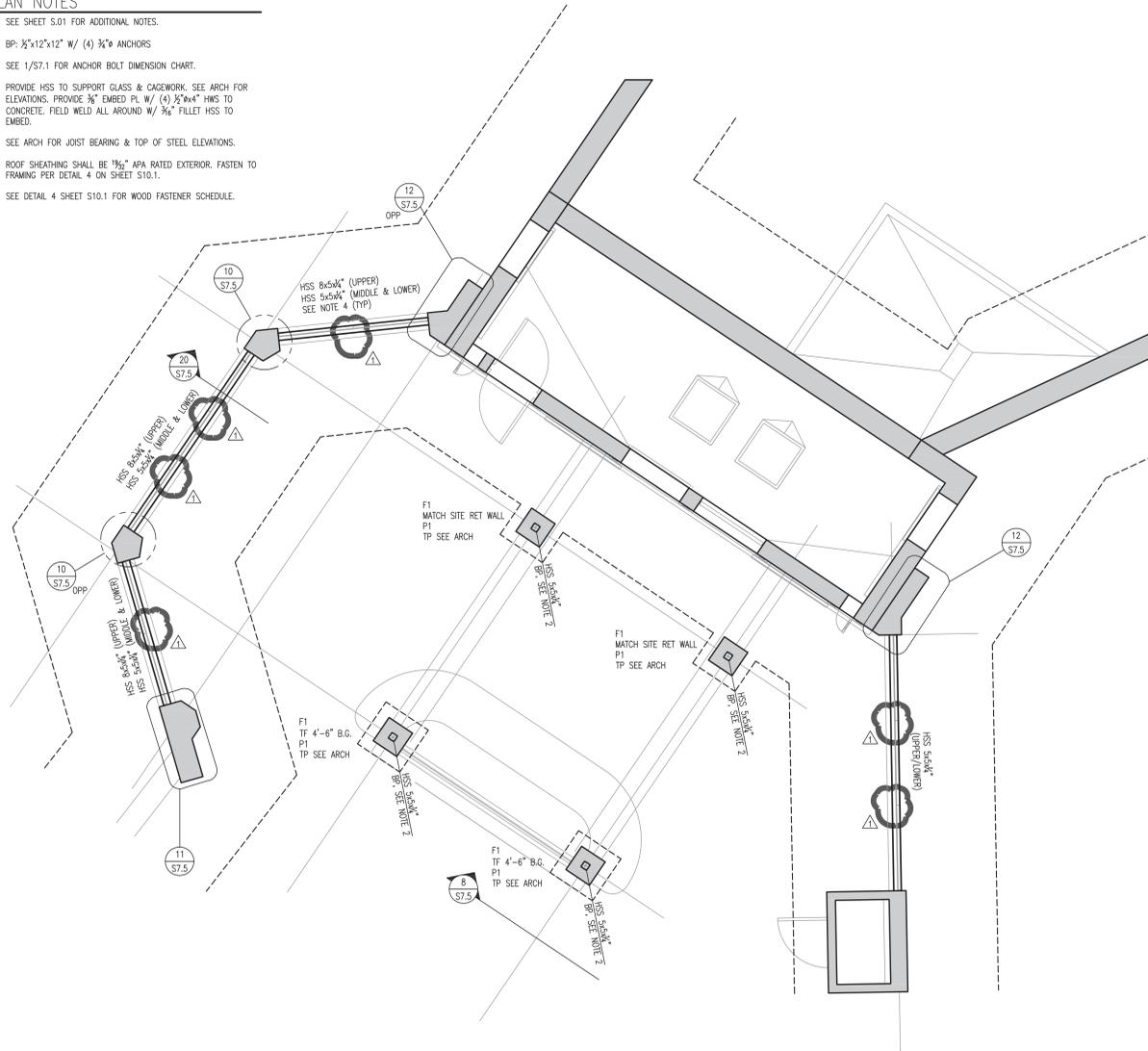
WDM No. 13046  
drawn: MP2  
checked: MP2

BEAR VIEWING  
FOUNDATION PLANS &  
FRAMING PLANS

**S4.1**

**PLAN NOTES**

- SEE SHEET S.01 FOR ADDITIONAL NOTES.
- BP: 3/8"x12"x12" W/ (4) 3/8" ANCHORS
- SEE 1/S7.1 FOR ANCHOR BOLT DIMENSION CHART.
- PROVIDE HSS TO SUPPORT GLASS & CAGEWORK. SEE ARCH FOR ELEVATIONS. PROVIDE 3/8" EMBED PL W/ (4) 3/8"x4" HWS TO CONCRETE. FIELD WELD ALL AROUND W/ 3/8" FILLET HSS TO EMBED.
- SEE ARCH FOR JOIST BEARING & TOP OF STEEL ELEVATIONS.
- ROOF SHEATHING SHALL BE 1/8" APA RATED EXTERIOR. FASTEN TO FRAMING PER DETAIL 4 ON SHEET S10.1.
- SEE DETAIL 4 SHEET S10.1 FOR WOOD FASTENER SCHEDULE.



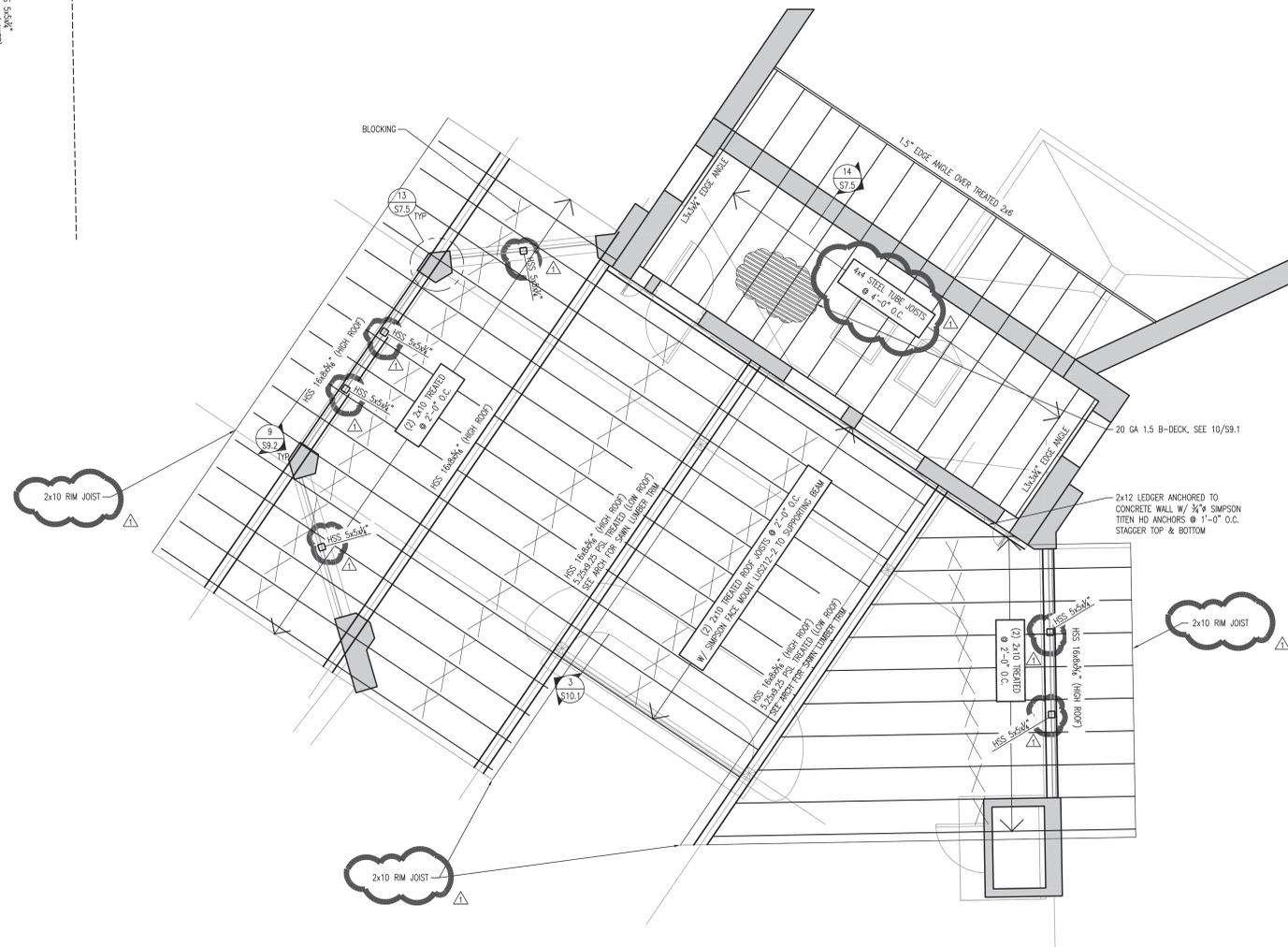
**1** BEAR VIEWING & TRAINING WALL FOUNDATION PLAN  
S4.2 SCALE: 1/4"=1'-0"

FOOTING SCHEDULE		
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM
F1	3'-0" x 3'-0" x 1'-0"	3-#5 EA WAY

1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

PIER SCHEDULE			
PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE
P1	20"x20"	6-#6 VERT W/ #3 TIES @ 10"OC W/ (3) #3 TIES IN TOP 8"	C

1. CENTER PIER UNDER COLUMN OR UNDER BEAM BEARING UNLESS NOTED OTHERWISE.



**2** BEAR VIEWING & TRAINING WALL ROOF FRAMING PLAN  
S4.2 SCALE: 1/4"=1'-0"



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11.25.2013 - Addendum #3

WDM No. 13046  
drawn: MP2  
checked: MP2  
BEAR VIEWING & TRAINING  
FOUNDATION PLANS &  
FRAMING PLANS

**S4.2**

**PLAN NOTES**

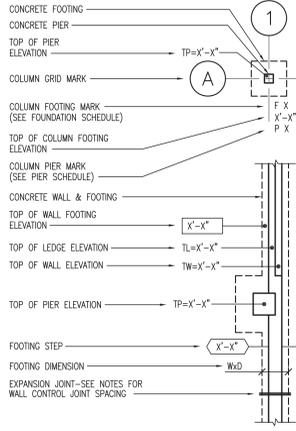
- SEE SHEET S.01 FOR ADDITIONAL NOTES.
- SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
- SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION WALL CORNER REINFORCING.
- SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
- PROVIDE 2-#4 BARS AT ALL DEAD ENDS & REINTRN CORNERS. SEE DETAIL 6/S7.1.
- SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'-0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
- SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
- SITE PLAN DATUM ELEVATION: 114.00' = 100'-0"
- SLOPE SLAB TO DRAINS. MAINTAIN SLAB THICKNESS.
- ALL FLOOR BARS AND WWF IN SEAL HOLDING AREA AND ALL WALL REINFORCEMENT SURROUNDING POOLS SHALL BE EPOXY COATED (WHETHER SHOWN OR NOT SHOWN IN DETAILS).
- SEE A-DRAWINGS FOR ALL DOOR AND INTERIOR WALL DIMENSIONS.
- G.C. TO COORDINATE REQ. EMBED SIZE & LOC FOR CAGE WORK WITH PRECAST SUPPLIER AT ALL NOTED DOORS, TYP.

**FOOTING SCHEDULE**

FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM
F1	3'-0" x 3'-0" x 1'-0"	4-#5 EA WAY

1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

**FOUNDATION LEGEND**



**PRECAST SCHEDULE**

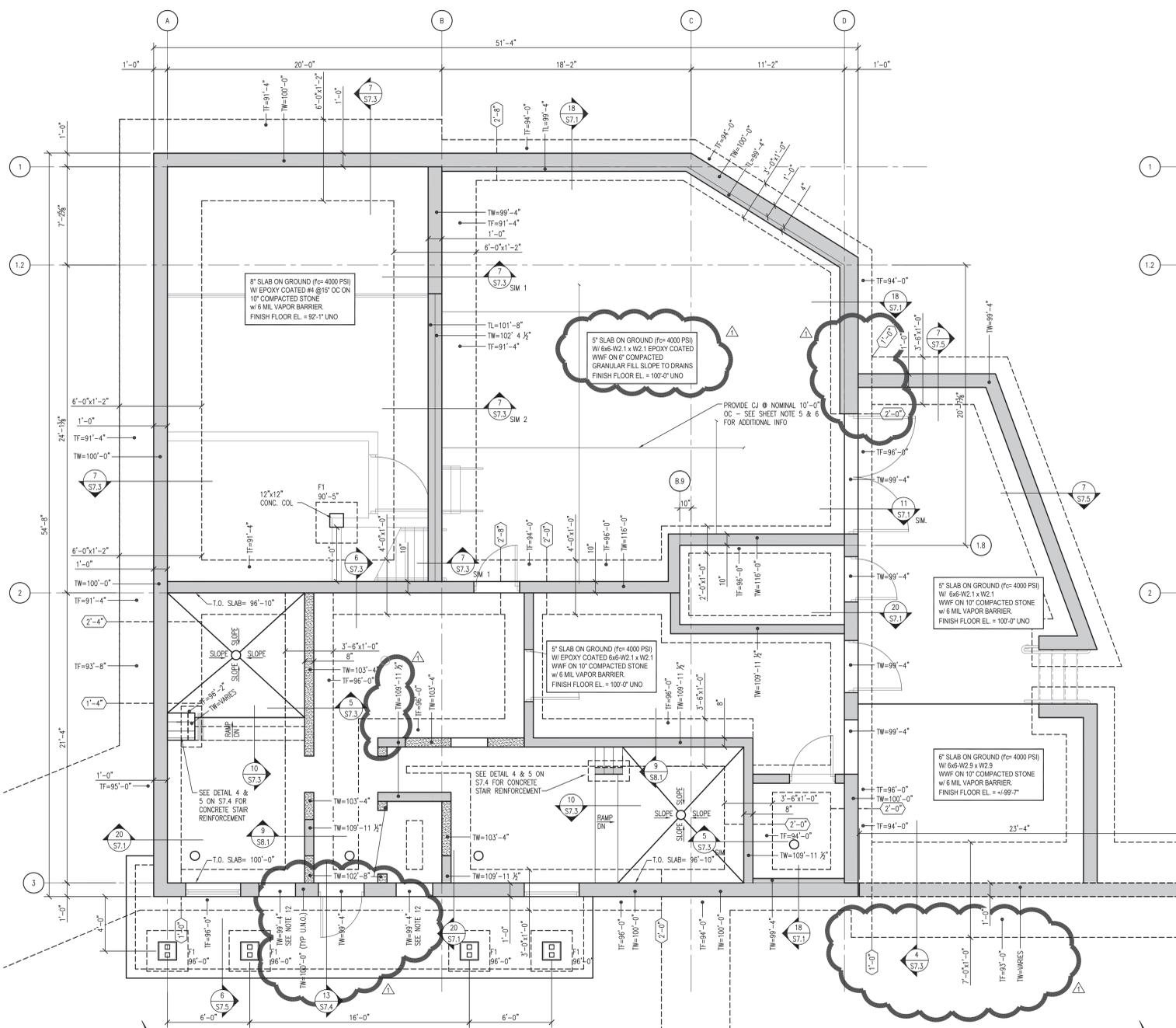
MARK	PLANK DEPTH	TOPPING	LOAD INFORMATION			P/C BEARING ELEVATION
			DL (psf)	LL (psf)	SL (psf)	
PC-1	8"	NONE	SELF WT. + 10	125	NONE	101'-8 1/2"

- NOTES:  
 1. SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.  
 2. GROUT ALL SHEAR KEYS AND TOOL SMOOTH

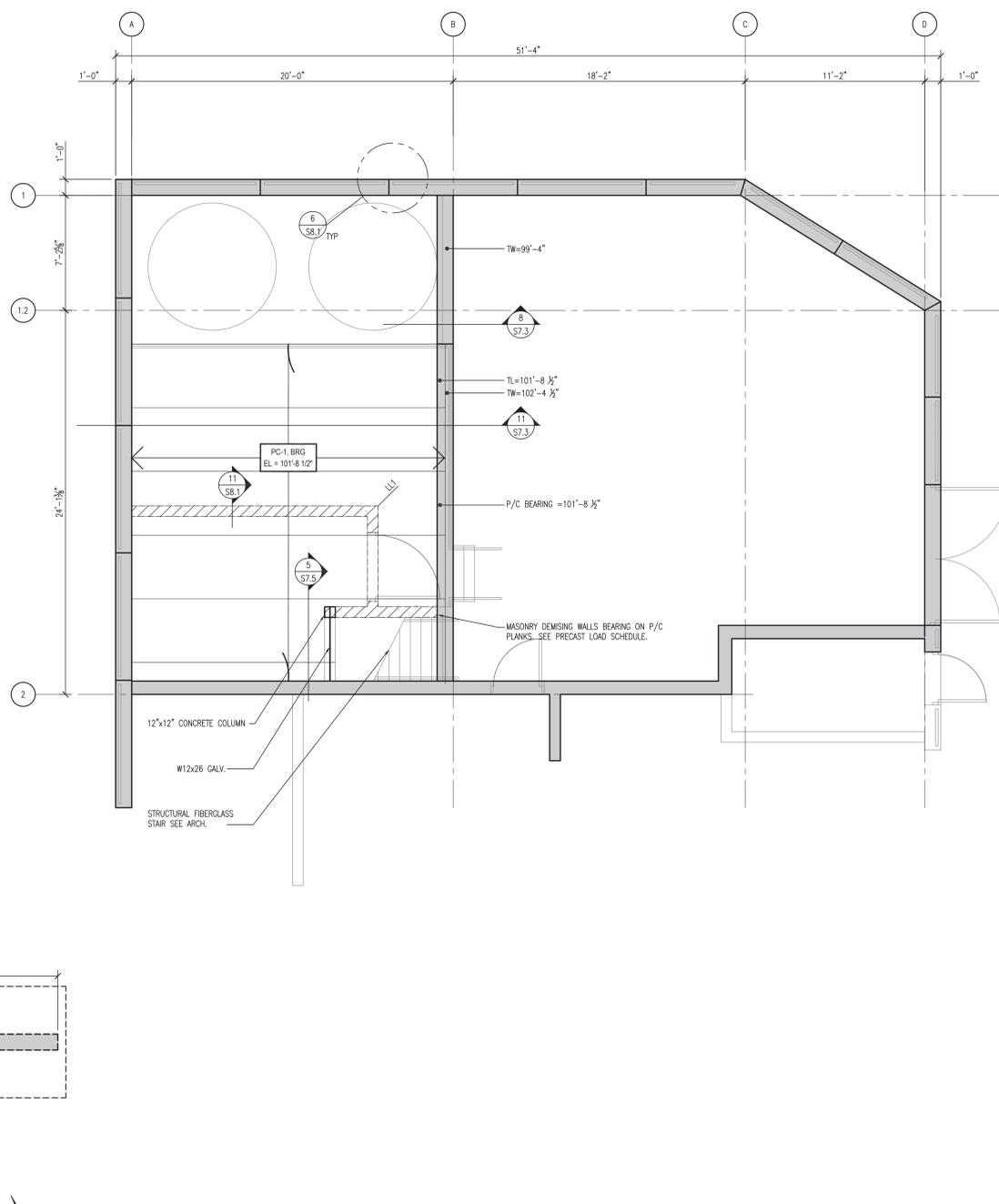
**PRECAST PLANK LOAD SCHEDULE**

MARK	DEAD LOAD (plf)	LIVE LOAD (plf)	SNOW LOAD (plf)
LL1	600	NONE	NONE

- NOTES:  
 1. ALL LOADS ARE SERVICE LOADS.



**1 SEAL HOLDING/LIFE SUPPORT FOUNDATION PLAN**  
 SCALE: 1/4"=1'-0"



**2 SEAL HOLDING/LIFE SUPPORT MEZZANINE**  
 SCALE: 1/4"=1'-0"

**(mp)<sup>2</sup>**  
**STRUCTURAL ENGINEERS, LLC**  
 WDM ARCHITECTS  
 WDM Architects P.A.  
 105 North Washington  
 Wichita, KS 67202-2815  
 T 316.262.4700  
 F 316.262.0002  
 wdmarchitects.com

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**WZOO**

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WDM No. 13046  
 draw: MP2  
 checked: MP2  
 SEAL HOLDING / LIFE SUPPORT  
 FOUNDATION PLAN  
 MEZZANINE FRAMING PLAN

**S5.1**

PLAN NOTES

- SEE SHEET S.01 FOR ADDITIONAL NOTES.

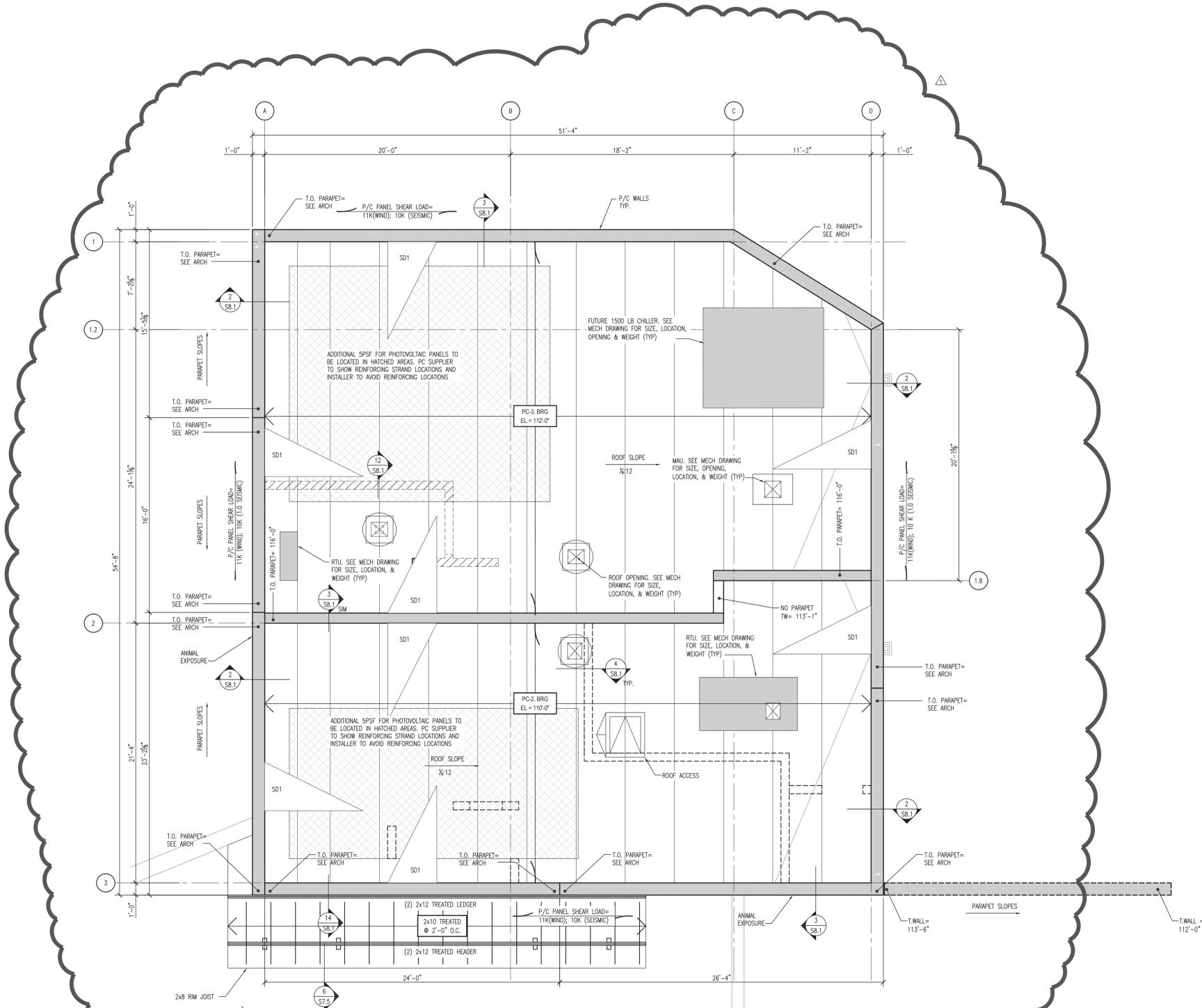
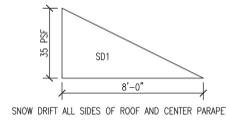
PRECAST NOTES

- ALL PRECAST ROOF PLANKS TO HAVE 2" MIN STRAND COVER.
- ALL PRECAST WALLS AND ROOF TO ACT AS DIAPHRAGM AND SHEAR WALLS. GROUT ALL ROOF PLANK SHEAR KEYS AND PROVIDE WALL PANEL TIES AS REQUIRED TO PREVENT UPLIFT AT PANEL BASE.
- SEE SHEET S.01 FOR ADDITIONAL PRECAST REQUIREMENTS AND ENVIRONMENTAL LOADING REQUIREMENTS.
- STYLE OF PRECAST WALLS (SANDWICH PANEL OR INSULATED CORES) SHOWN AS CONCEPTUAL ONLY. ALL PRECAST WALL PANELS SHALL HAVE ARCHITECTURAL FINISH AND "R" INSULATION VALUES AS SPECIFIED BY ARCHITECT.
- PRECAST WALLS EXPOSED TO ANIMAL ACTIVITY SHALL BE RIGID ENOUGH TO NOT CRACK WHEN ANIMAL LOADS ARE APPLIED (SEE NOTE 6 BELOW FOR LOADS). ALL WALLS OF BEAR BUILDING AND WEST & SOUTH WALLS OF SEAL BUILDING.
- ALL PRECAST WALL PANELS EXPOSED TO ANIMAL ACTIVITY SHALL BE DESIGNED FOR ENVIRONMENTAL LOADS SHOWN ON SHEET S.01 AND FOR (2) 2.0K IMPACT POINT LOADS APPLIED OVER A 0.5 SQ-FT AREA AT 2'-0" APART AT ANY LOCATION IN THE BOTTOM 12'-0" ON THE EXTERIOR FACE OF THE WALL.
- PRECAST WALL SHALL BE DESIGNED AS SHEAR WALLS TO RESIST SOIL, WIND, SEISMIC FORCES PER PLAN.
- PROVIDE FORM LINER PER ARCHITECTURAL PLANS.
- SEE A-DRAWINGS FOR WALL ELEVATION REQUIREMENTS & WALL OPENINGS. A-DRAWINGS SHALL GOVERN OVER STRUCTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS.

MARK	PLANK DEPTH	TOPPING	LOAD INFORMATION			P/C BEARING ELEVATION
			DL (psf)	LL (psf)	SL (psf)	
PC-2	8"	NONE	SELF WT. + 10	20	23.1 + DRIFT	110'-0"
PC-3	10"	NONE	SELF WT. + 10	20	23.1 + DRIFT	112'-0"

- NOTES:
- SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.
  - GROUT ALL SHEAR KEYS AND TOOL SMOOTH

SNOW LOADING



1 SEAL HOLDING/LIFE SUPPORT ROOF FRAMING PLAN  
SCALE: 1/4"=1'-0"

(mp)<sup>2</sup> STRUCTURAL ENGINEERS, LLC  
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WDM No. 13046  
 draw: MP2  
 checked: MP2  
 SEAL HOLDING / LIFE SUPPORT  
 ROOF FRAMING PLAN

**S5.2**

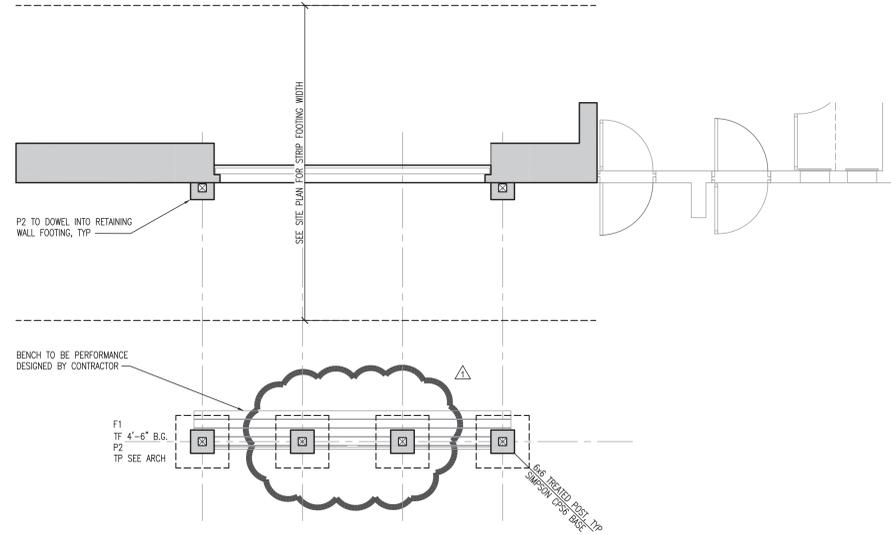
- PLAN NOTES**
- SEE SHEET S.01 FOR ADDITIONAL NOTES.
  - SEE ARCH FOR JOIST BEARING ELEVATION.
  - ROOF SHEATHING SHALL BE 1/2" APA RATED EXTERIOR GRADE. FASTEN TO FRAMING PER DETAIL 4 ON SHEET 10.1.
  - SEE DETAIL 4 SHEET S10.1 FOR WOOD FASTENER SCHEDULE.

FOOTING SCHEDULE		
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM
F1	3'-0" x 3'-0" x 1'-0"	3-#5 EA WAY

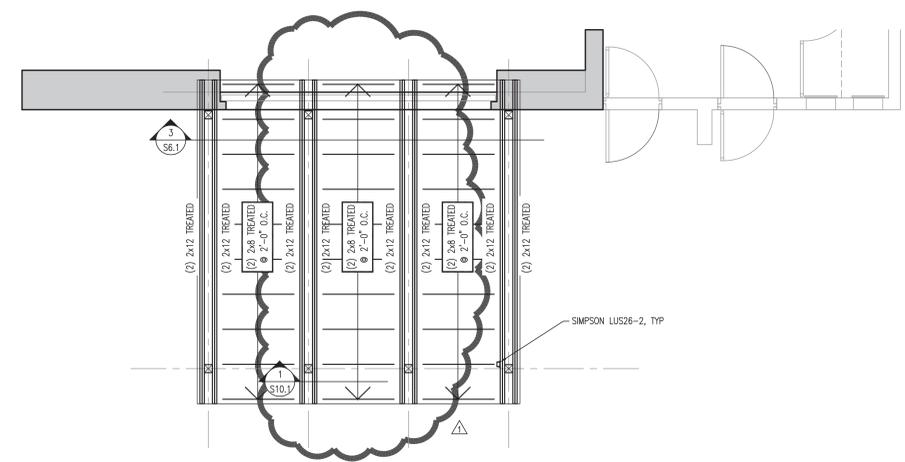
1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

PIER SCHEDULE			
   			
PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE
P2	16"x16"	4-#6 VERT W/ #3 TIES @ 10"OC W/ (3) #3 TIES IN TOP 8"	A

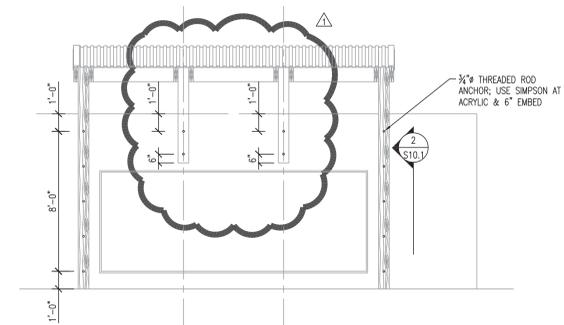
1. CENTER PIER UNDER COLUMN OR UNDER BEAM BEARING UNLESS NOTED OTHERWISE.



1 SEAL VIEWING FOUNDATION PLAN  
SCALE: 1/4"=1'-0"



2 SEAL VIEWING ROOF FRAMING PLAN  
SCALE: 1/4"=1'-0"



3 SEAL VIEWING ELEVATION  
SCALE: 1/4"=1'-0"

**(mp)<sup>2</sup>**  
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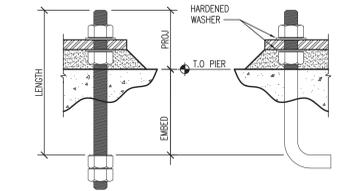
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WDM No. 13046  
drawn: MP2  
checked: MP2

SEAL VIEWING  
FOUNDATION PLAN &  
ROOF FRAMING PLAN

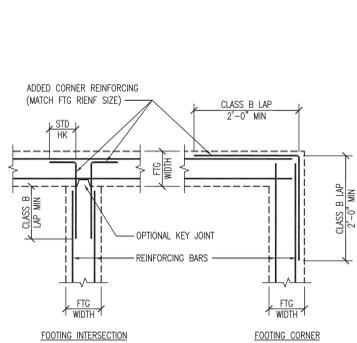
**S6.1**



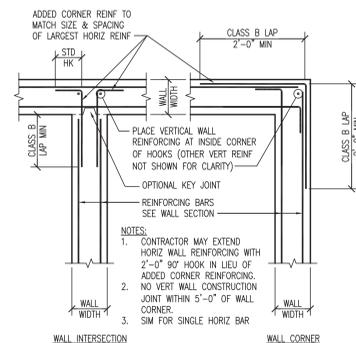
DIMENSION CHART					
DIAMETER	LENGTH	EMBED	HOOK	PROJECTIONS	NOTES
1/2	12	8	2	4	1,2
3/4	16	12	3	4	1,2
1	19	15	4	4	1,2

NOTES:  
 1. ALL ANCHORS F1554, GRADE 36.  
 2. LENGTH = 1'-0" AT INTERIOR COLUMN FOOTINGS WITH 12" DEPTH.

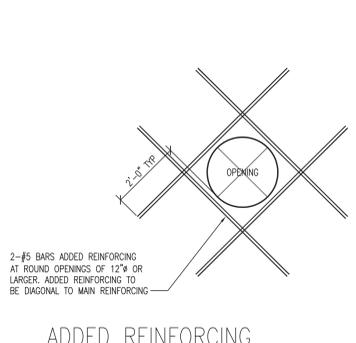
1 ANCHOR BOLT DIMENSION CHART  
 SCALE: NTS



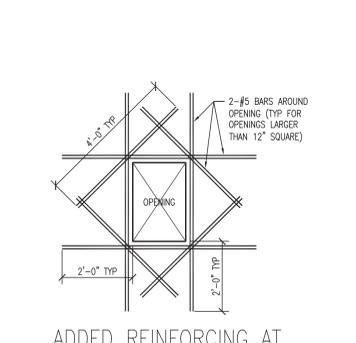
2 FOOTING CORNER REINFORCING  
 SCALE: 3/4"=1'-0"



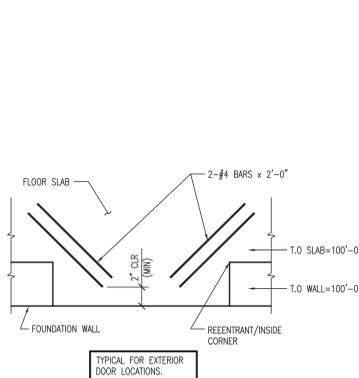
3 WALL CORNER REINFORCING  
 SCALE: 3/4"=1'-0"



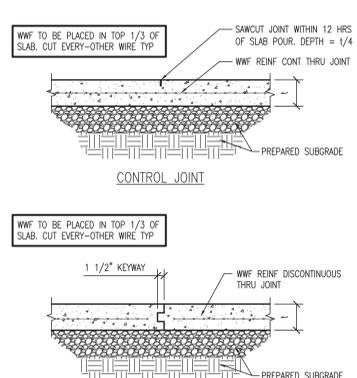
4 ADDED REINFORCING AT ROUND OPENINGS  
 SCALE: 1/2"=1'-0"



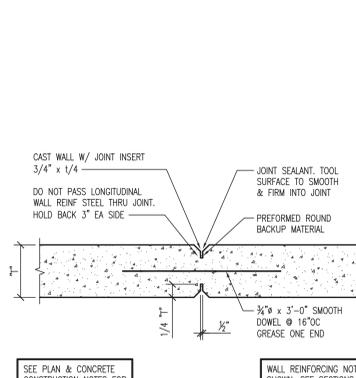
5 ADDED REINFORCING AT RECTANGULAR OPENINGS  
 SCALE: 1/2"=1'-0"



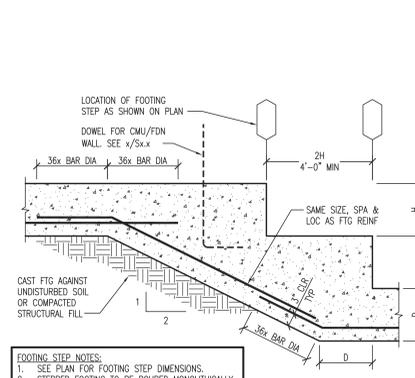
6 SLAB REINF AT REENTRANT CORNERS W/O CONTROL JTS  
 SCALE: 3/4"=1'-0"



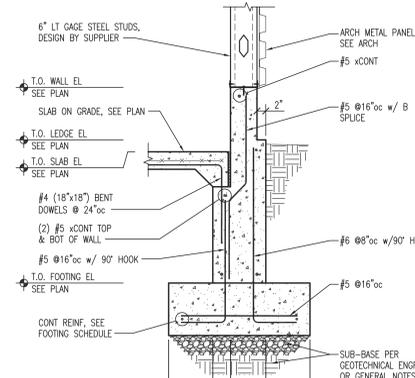
7 SLAB JOINTS  
 SCALE: 3/4"=1'-0"



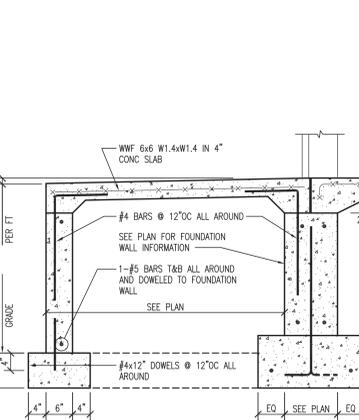
8 WALL CONTROL JOINT  
 SCALE: 3/4"=1'-0"



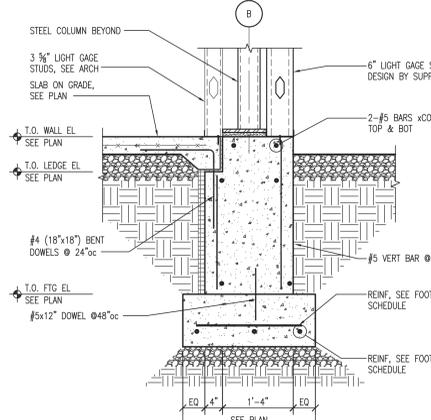
9 FOOTING STEP DETAIL  
 SCALE: 3/4"=1'-0"



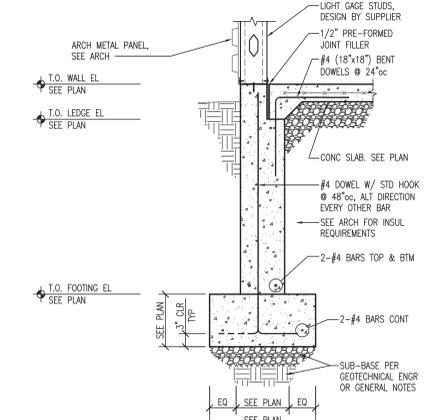
10 FOUNDATION WALL DETAIL  
 SCALE: 3/4"=1'-0"



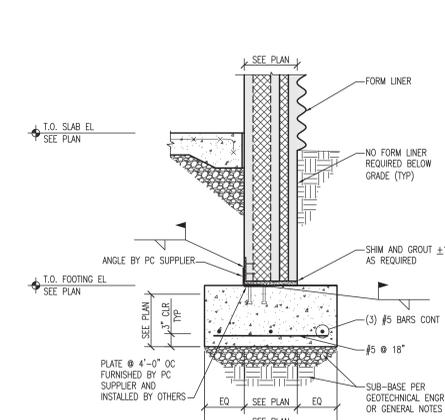
11 STOOP AT DOOR/WINDOW  
 SCALE: 3/4"=1'-0"



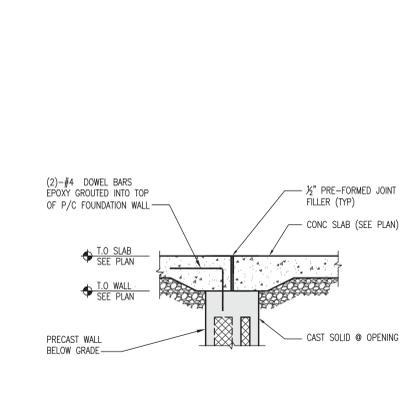
12 WALL FOOTING DETAIL  
 SCALE: 3/4"=1'-0"



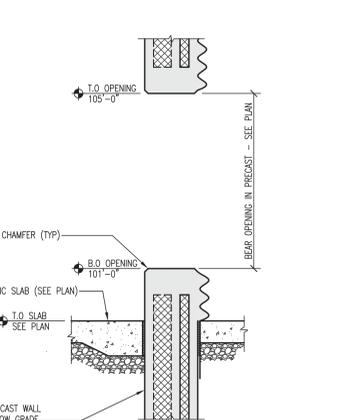
13 TYPICAL FOUNDATION WALL  
 SCALE: 3/4"=1'-0"



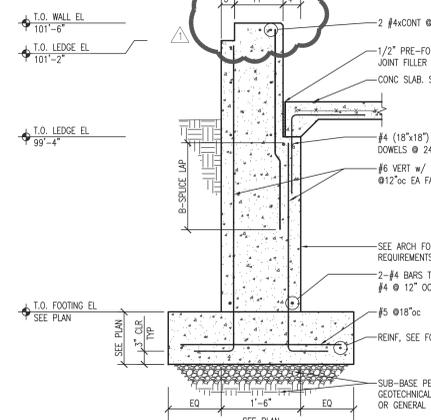
14 PC FOUNDATION WALL  
 SCALE: 3/4"=1'-0"



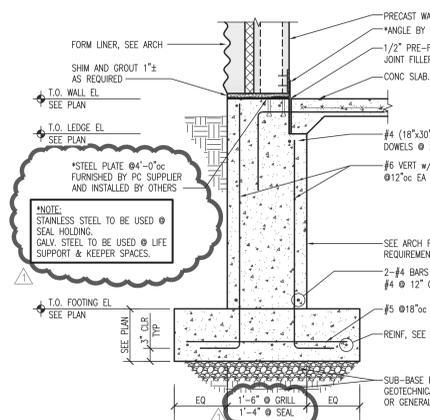
15 PC WALL AT DOOR  
 SCALE: 3/4"=1'-0"



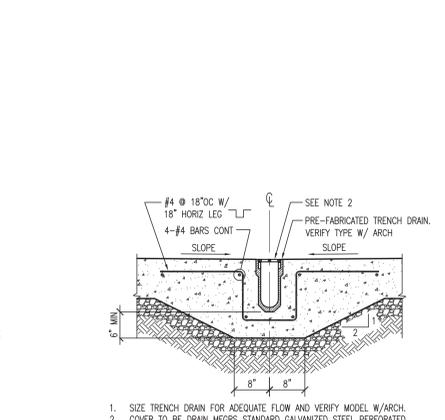
16 PC WALL AT BEAR OPENING  
 SCALE: 3/4"=1'-0"



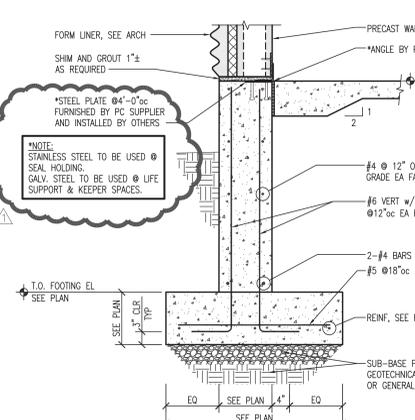
17 FOUNDATION WALL @ WINDOW  
 SCALE: 3/4"=1'-0"



18 FOUNDATION WALL @ PC WALLS  
 SCALE: 3/4"=1'-0"



19 TRENCH DRAIN DETAIL  
 SCALE: 3/4"=1'-0"



20 FOUNDATION WALL @ PC WALLS  
 SCALE: 3/4"=1'-0"

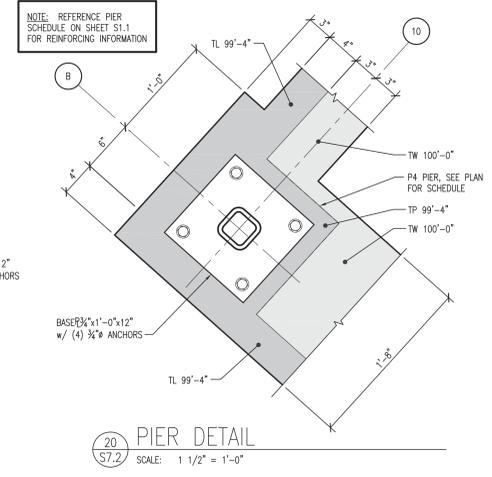
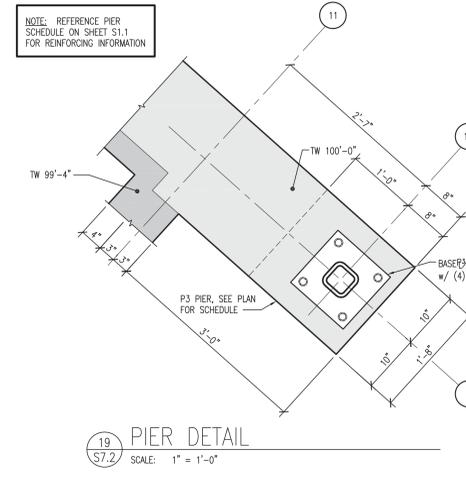
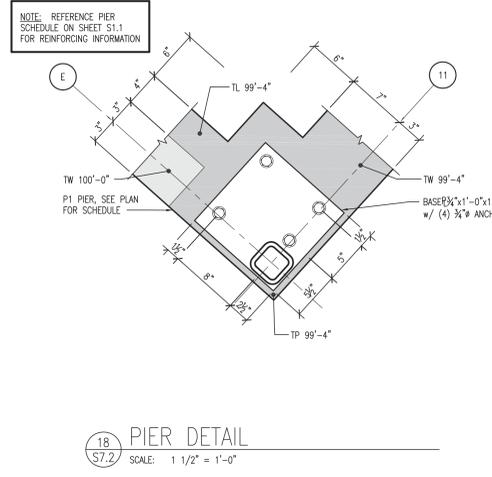
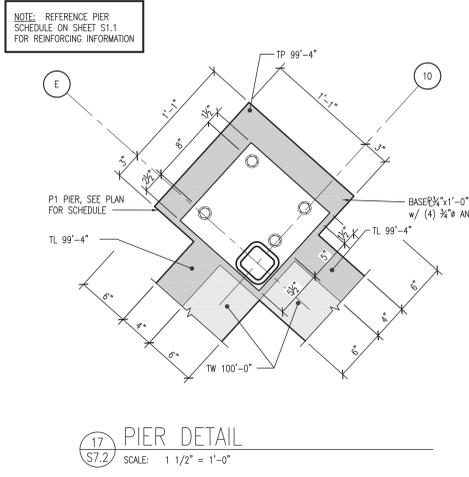
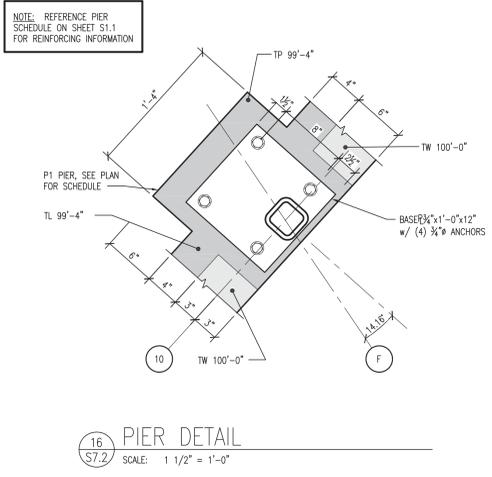
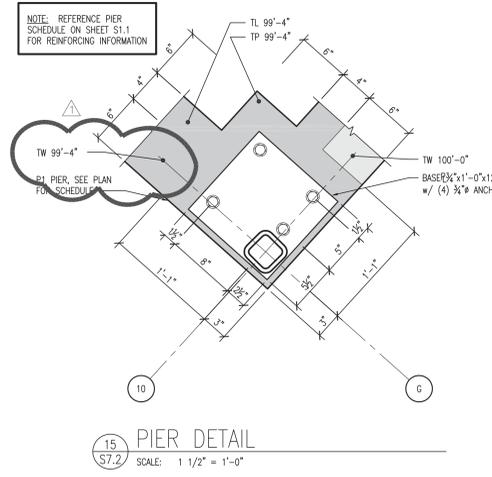
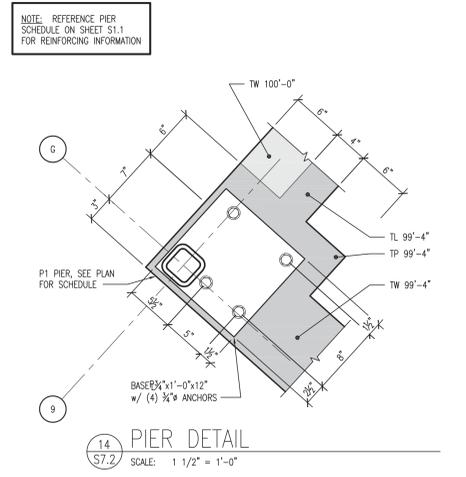
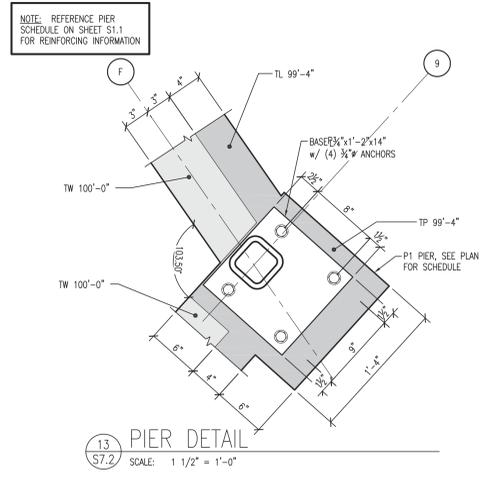
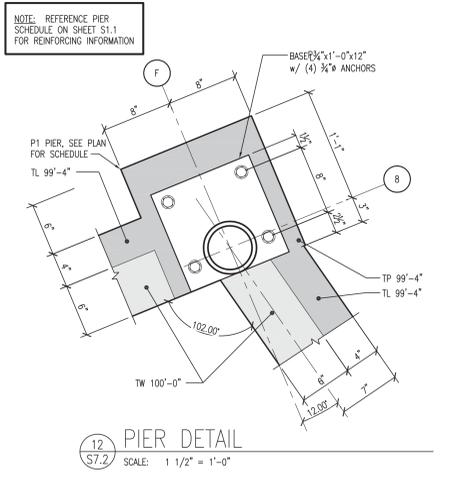
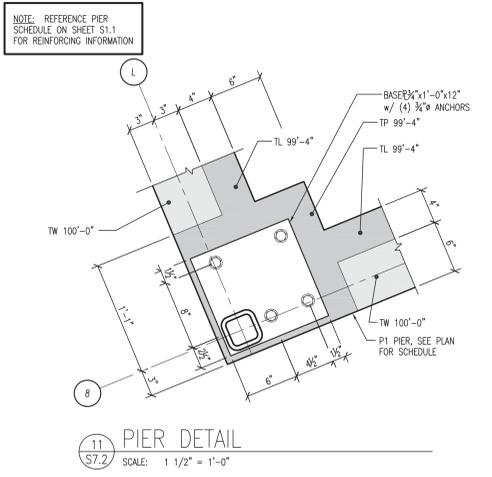
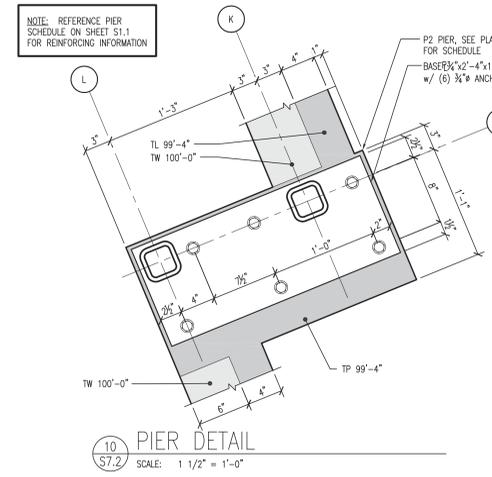
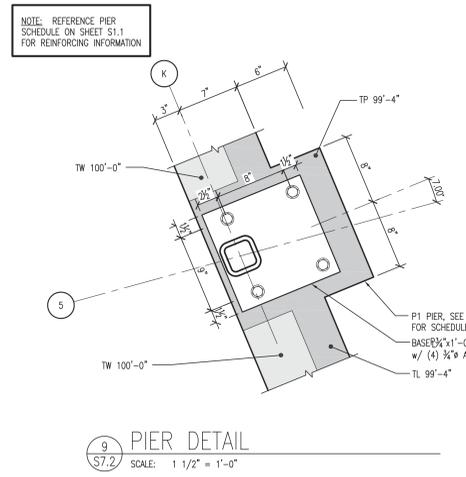
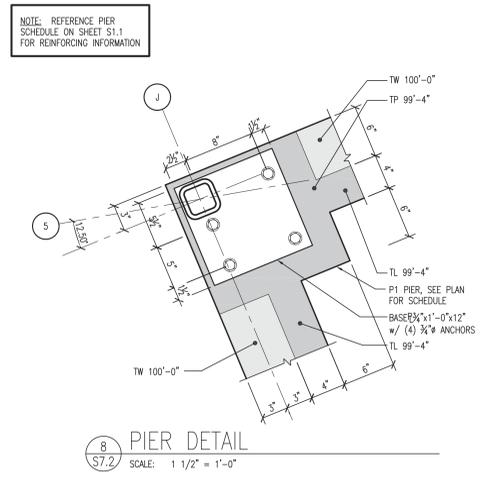
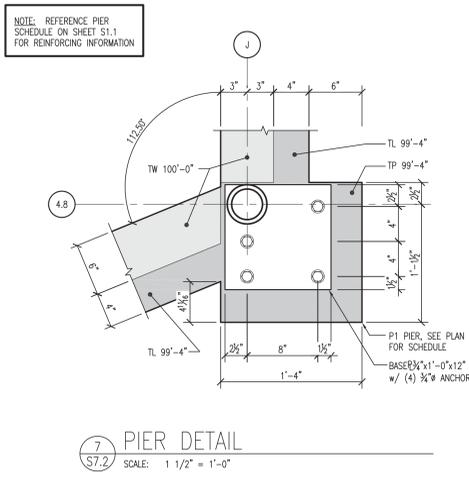
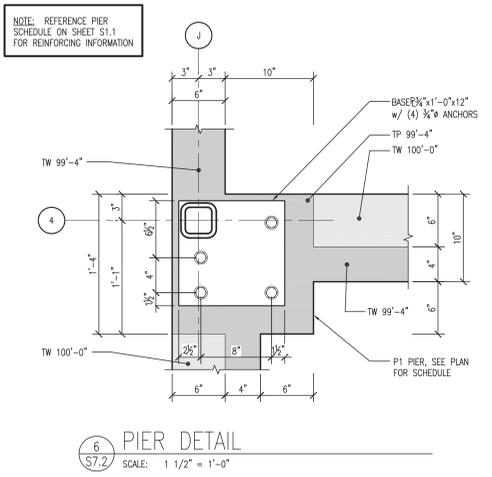
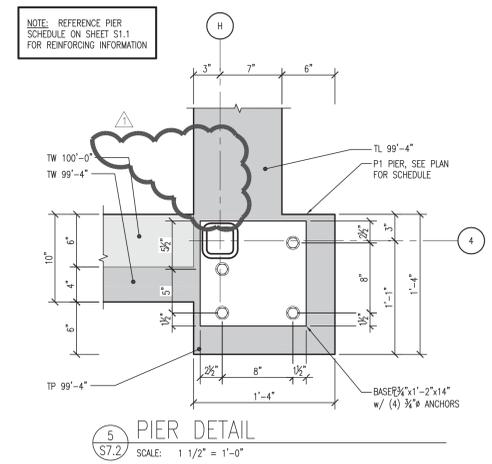
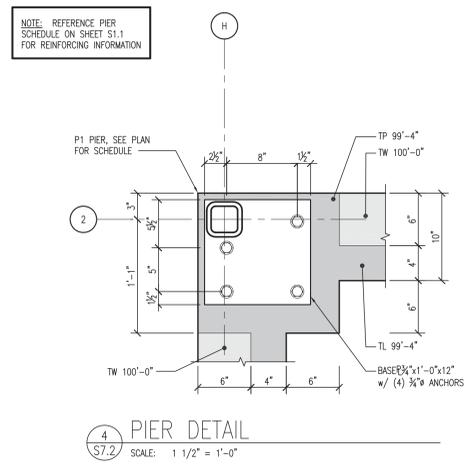
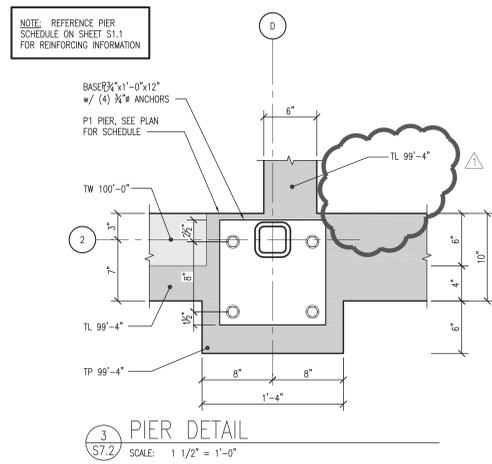
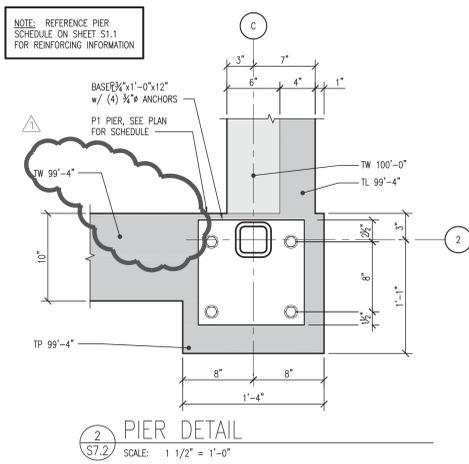
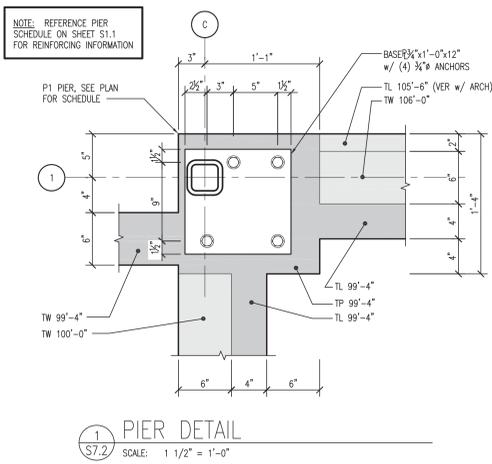


ARCTIC ANIMAL EXHIBIT AND CONCESSIONS  
 RFB No. 313086  
 Henry Vilas Zoo - County of Dane  
 Henry Vilas Zoo  
 702 S Randall Ave  
 Madison, Wisconsin  
 Department of Public Works  
 1919 Alliant Energy Center Way  
 Madison, Wisconsin

PRINTS ISSUED  
 07.26.2013 - Schematic Design  
 08.23.2013 - Design Development  
 09.23.2013 - 95% CD  
 10.07.2013 - Pricing Set  
 10.21.2013 - 95% CD's  
 11.13.2013 - Bid Documents  
 11.25.2013 - Addendum #3

WDM No. 13046  
 draw: MP2  
 checked: MP2  
 FOUNDATION DETAILS

S7.1



**(mp)<sup>2</sup>**  
STRUCTURAL  
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ARCHITECTS

WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

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PRINTS ISSUED

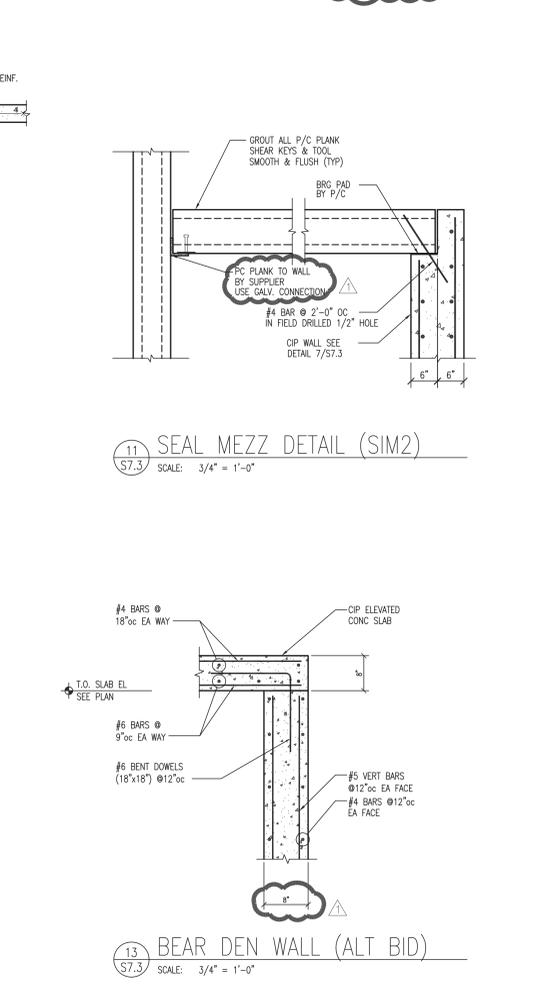
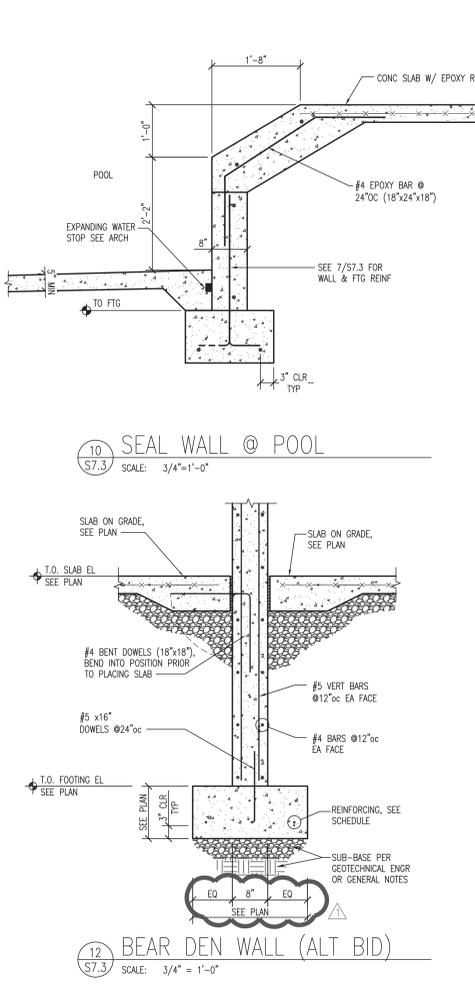
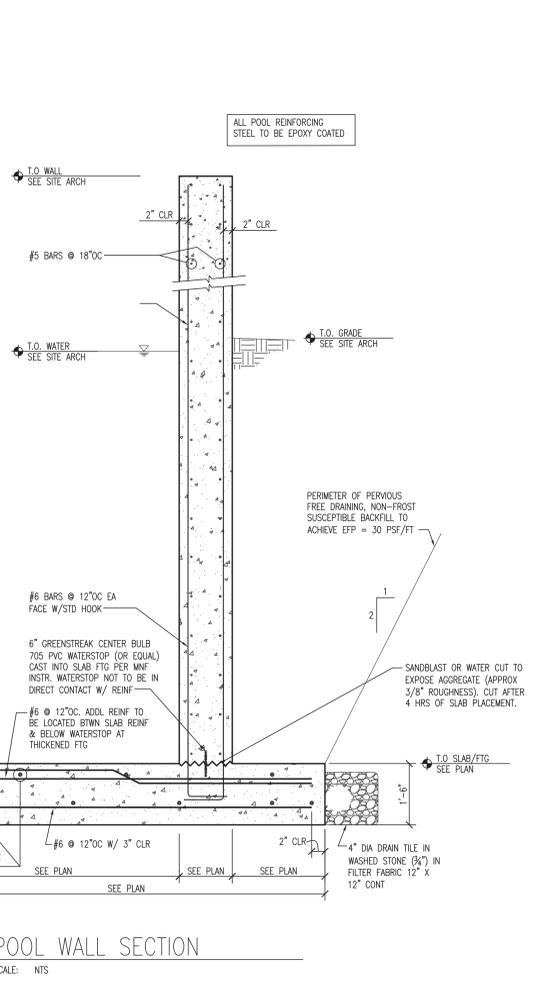
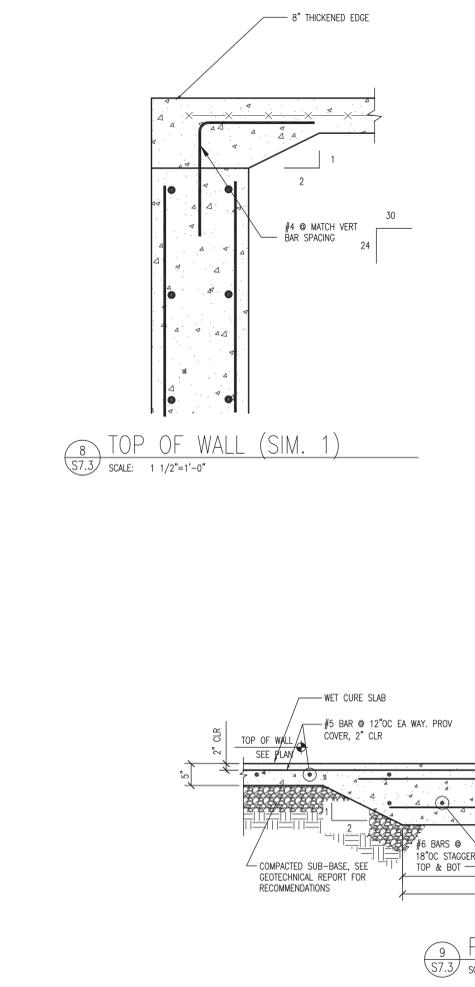
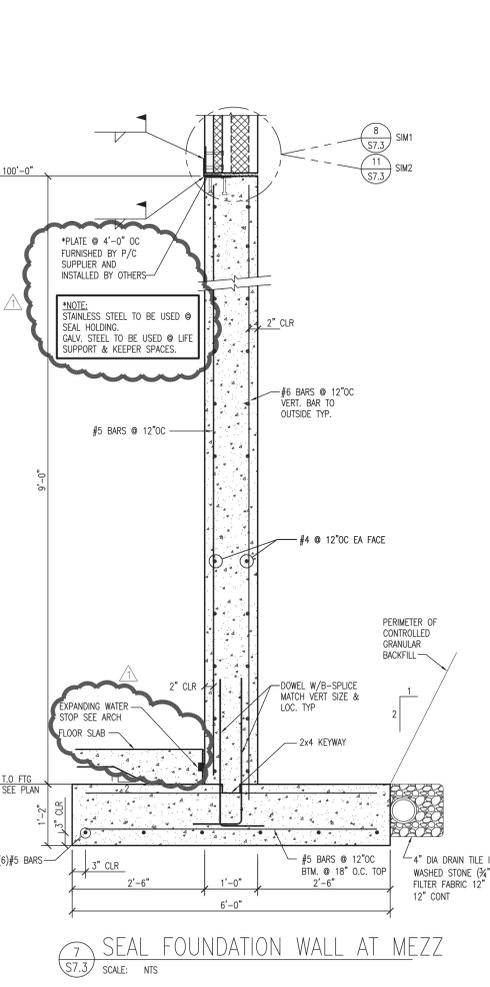
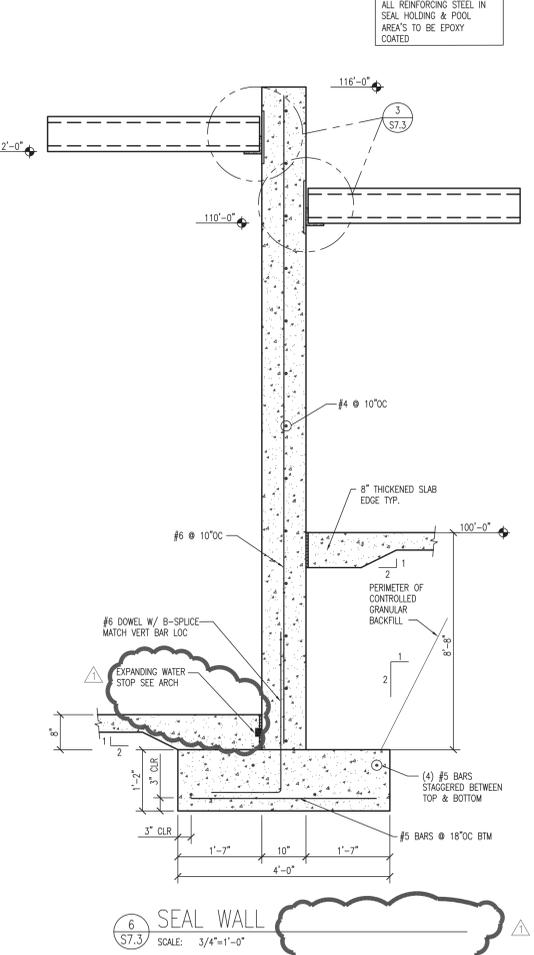
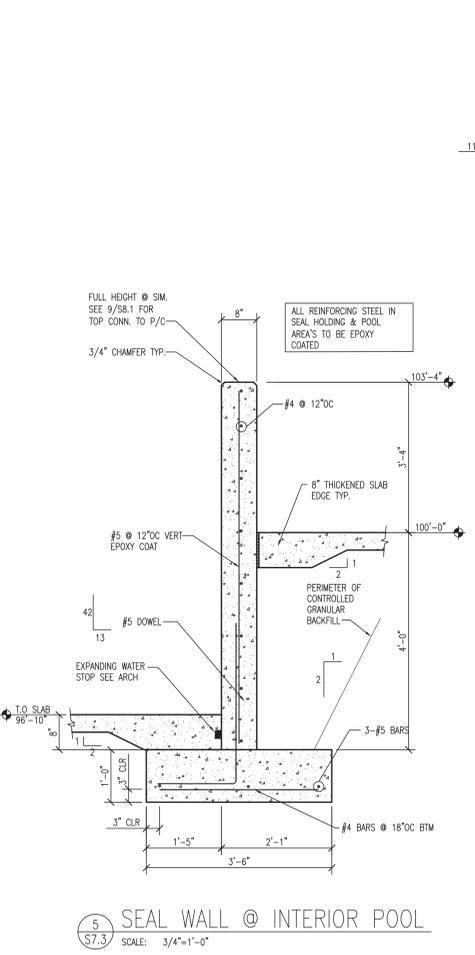
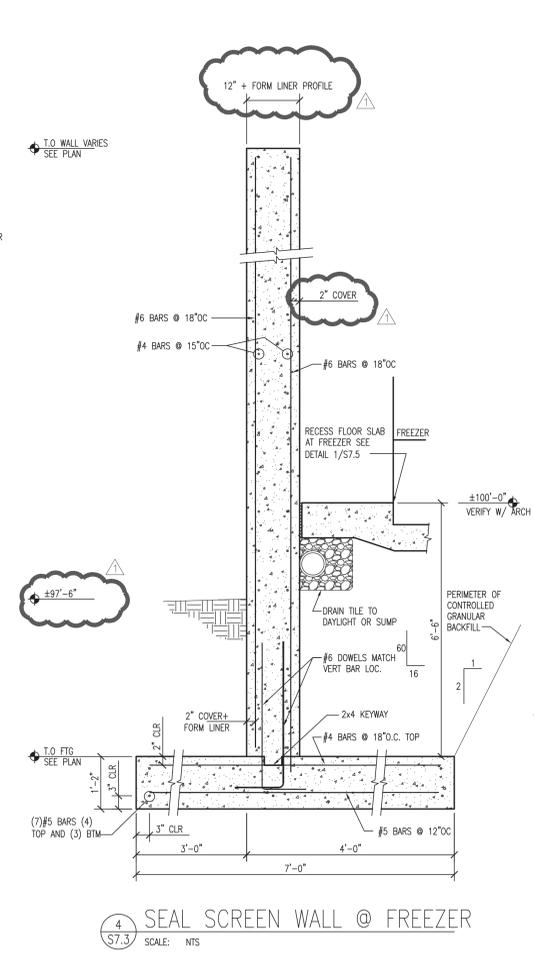
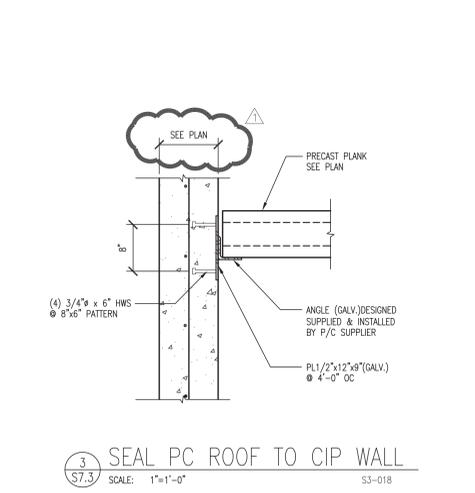
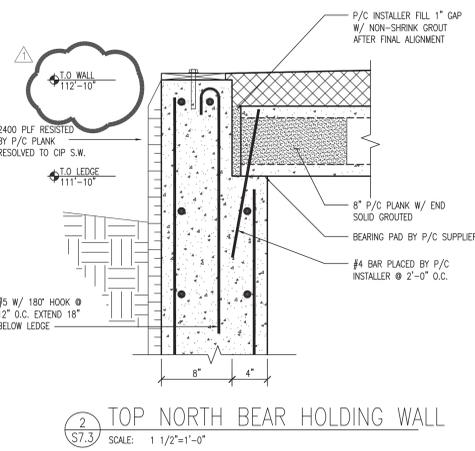
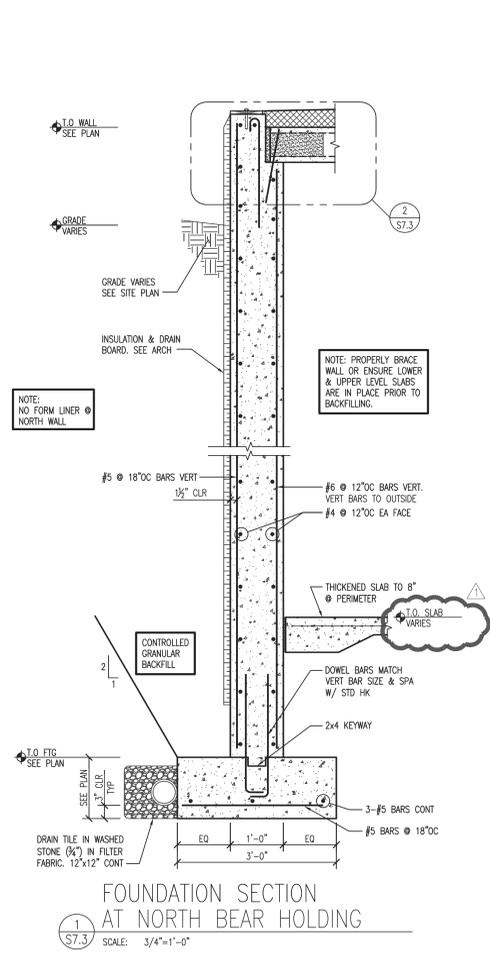
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WDM No. 13046  
drawn: MP2  
checked: MP2

FOUNDATION DETAILS

**S7.2**

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ALL REINFORCING STEEL IN SEAL HOLDING & POOL AREA'S TO BE EPOXY COATED

**wdm ARCHITECTS**  
 WDM Architects P.A.  
 105 North Washington  
 Wichita, KS 67202-2815  
 T 316.262.4700  
 F 316.262.0002  
 wdmarchitects.com

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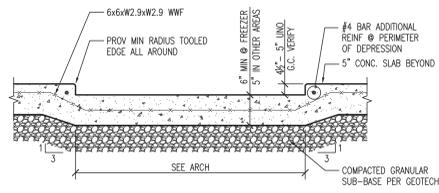
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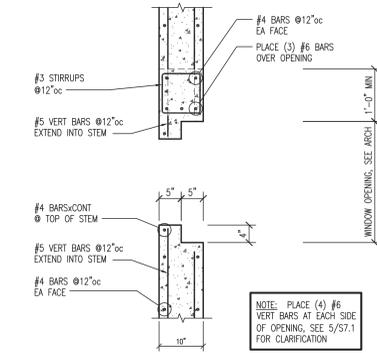
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 FOUNDATION DETAILS

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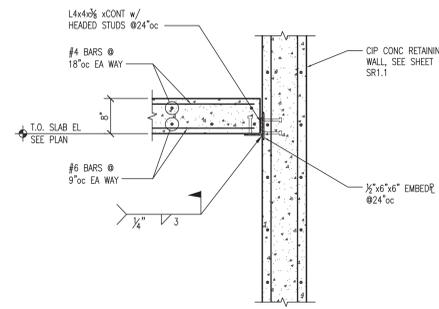
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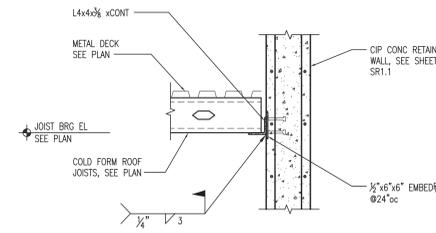
1 SECTION @ SLAB DEPRESSION  
S7.5 SCALE: 3/4" = 1'-0"



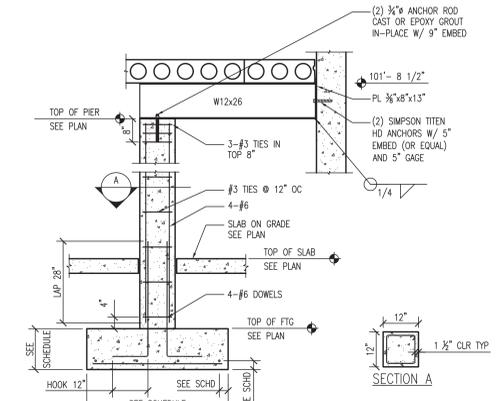
2 BEAR DEN WINDOW (ALT BID)  
S7.5 SCALE: 3/4" = 1'-0"



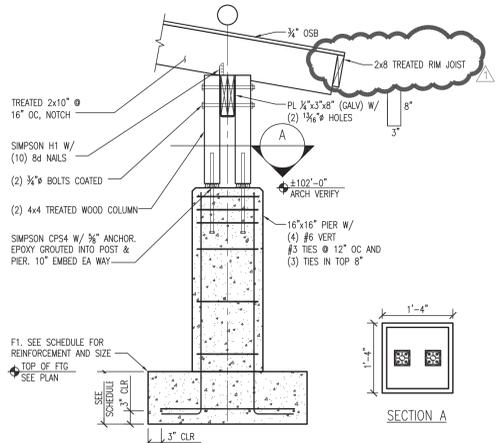
3 BEAR DEN ROOF (ALT BID)  
S7.5 SCALE: 3/4" = 1'-0"



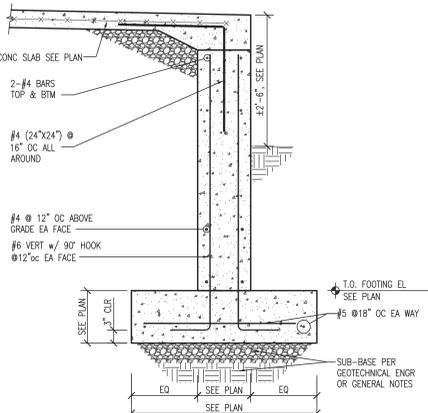
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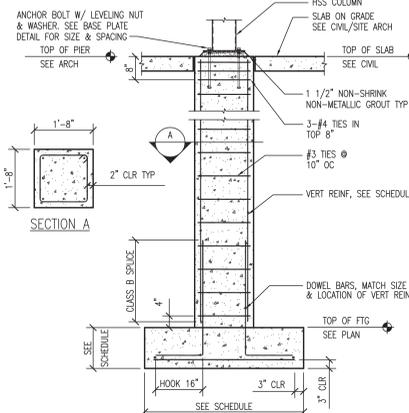
5 INTERIOR COLUMN PIER  
S7.5 SCALE:



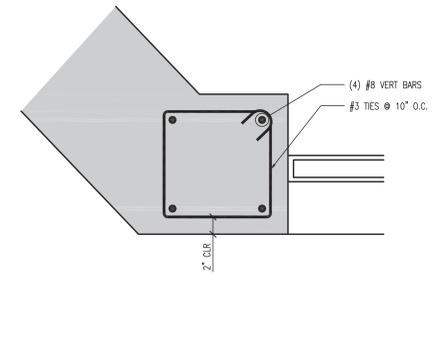
6 SEAL POST DETAIL  
S7.5 SCALE: 3/4" = 1'-0"



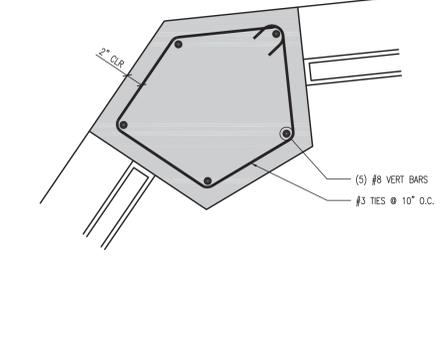
7 SEAL LOADING DOCK  
S7.5 SCALE: 3/4" = 1'-0"



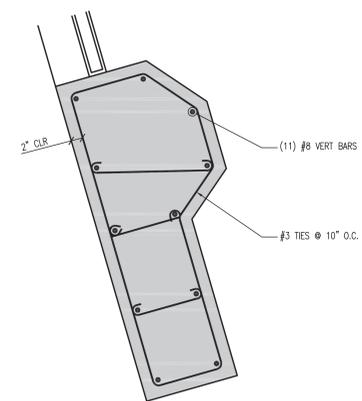
8 COLUMN PIER/ FOOTING  
S7.5 SCALE:



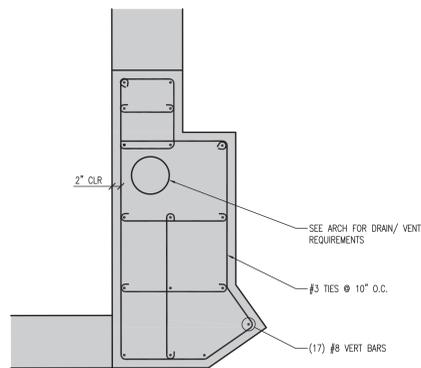
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S7.5 SCALE: 1 1/2" = 1'-0"



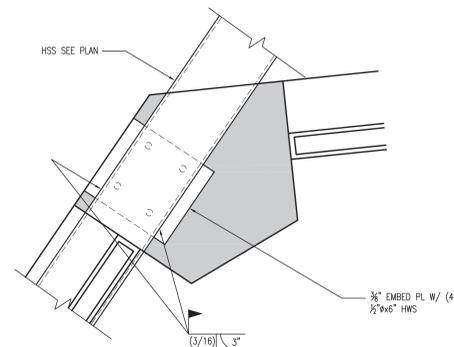
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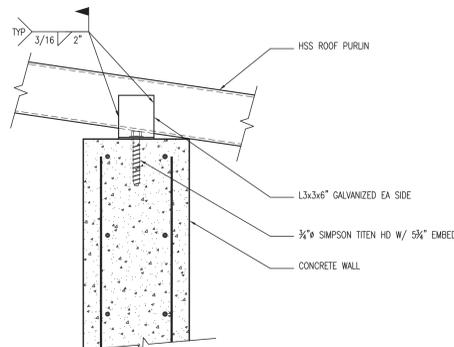
11 PIER REINFORCING  
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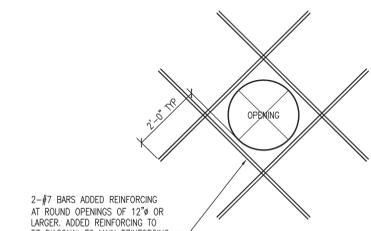
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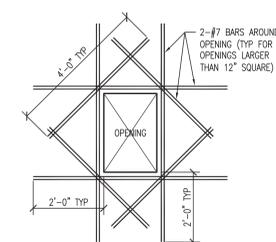
13 HSS TO CONCRETE PIER  
S7.5 SCALE: 1 1/2" = 1'-0"



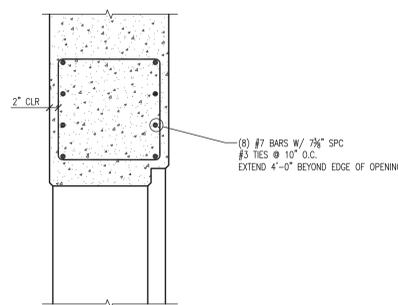
14 LIGHT GAGE PURLIN TO CONC WALL  
S7.5 SCALE: 1 1/2" = 1'-0"



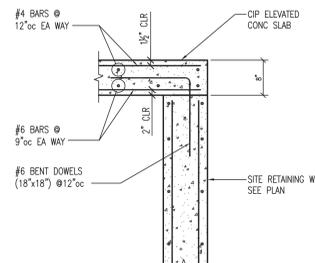
15 ADDED REINFORCING AT ROUND OPENINGS @ SITE RET. WALLS  
S7.5 SCALE: 1 1/2" = 1'-0"



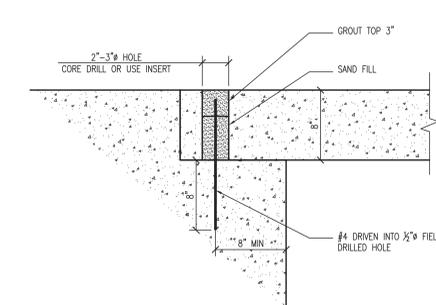
16 ADDED REINFORCING AT RECTANGULAR OPENINGS @ SITE RET. WALLS  
S7.5 SCALE: 1 1/2" = 1'-0"



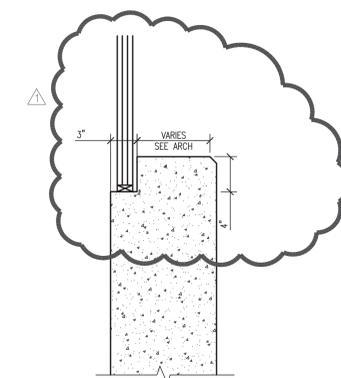
17 HEADER @ UNDERWATER VIEWING  
S7.5 SCALE: 3/4" = 1'-0"



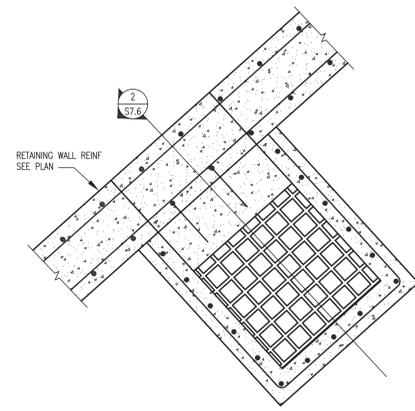
18 SITE BEAR DEN LID  
S7.5 SCALE: 3/4" = 1'-0"



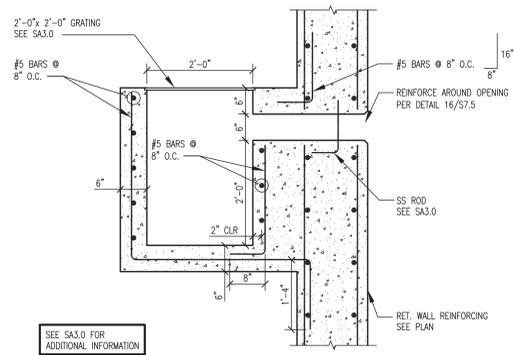
19 BRIDGE AT "ROCK"  
S7.5 SCALE: 1 1/2" = 1'-0"



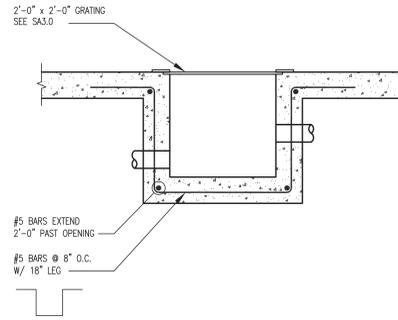
20 DETAIL BELOW VIEWING  
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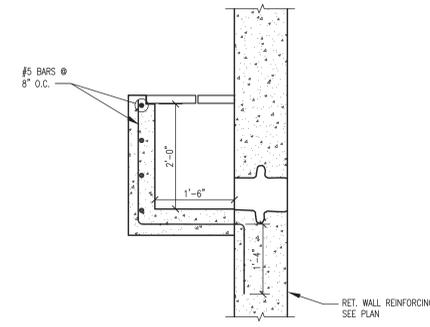
1 PLAN VIEW AT SKIMMER  
SCALE: 3/4"=1'-0"



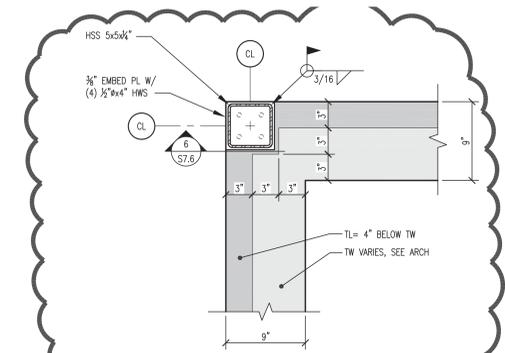
2 TYPICAL SKIMMER SECTION  
SCALE: 3/4"=1'-0"



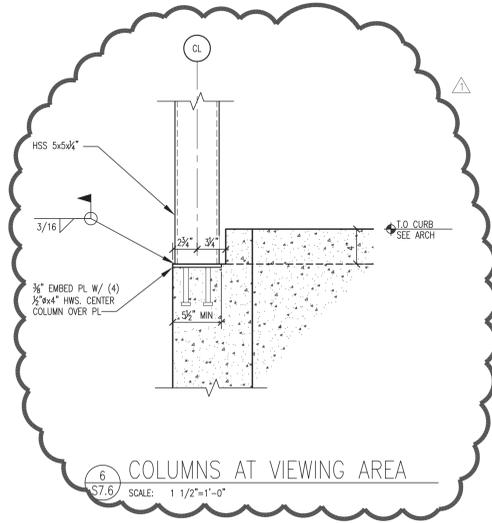
3 POOL DRAIN  
SCALE: 3/4"=1'-0"



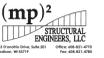
4 POOL LEVEL SENSOR  
SCALE: 3/4"=1'-0"



5 COLUMNS AT VIEWING AREA  
SCALE: 1 1/2"=1'-0"



6 COLUMNS AT VIEWING AREA  
SCALE: 1 1/2"=1'-0"



WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
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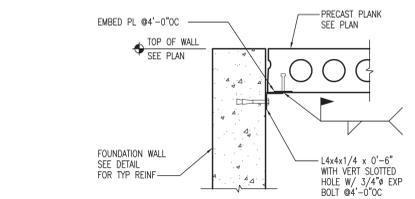
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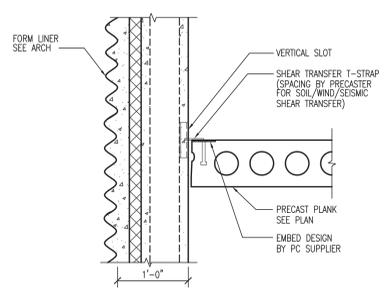
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FOUNDATION DETAILS

**S7.6**

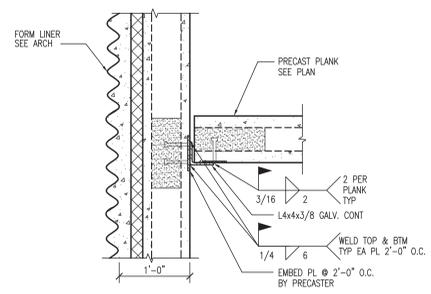
1 PRECAST PLANK AT NON-BEARING WALL  
SCALE: 3/4" = 1'-0"



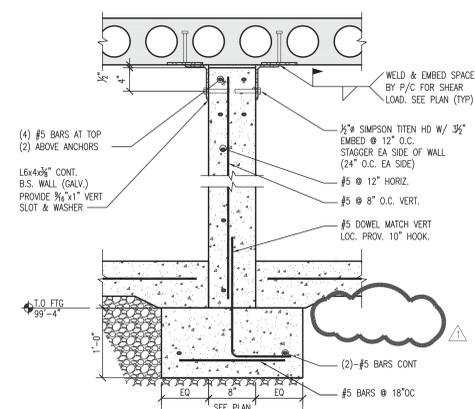
2 PRECAST DETAIL  
SCALE: 1" = 1'-0"



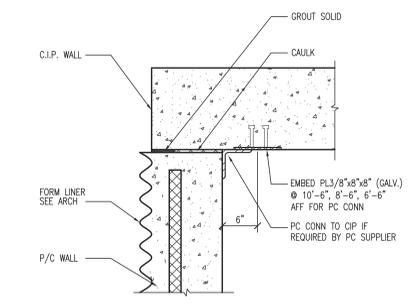
3 PRECAST DETAIL  
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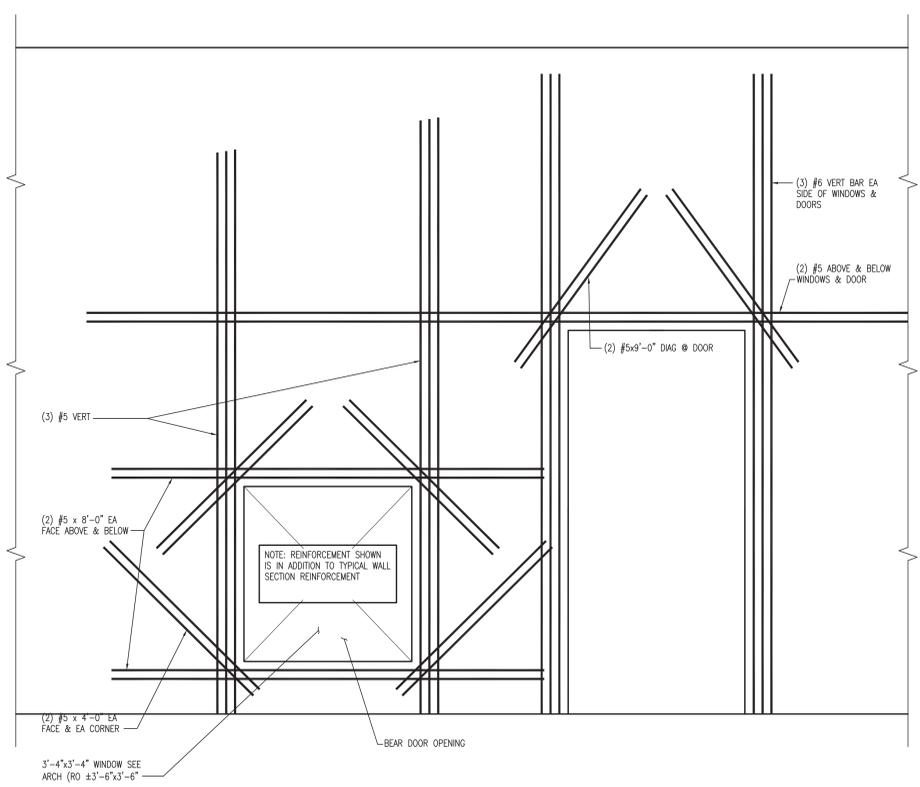
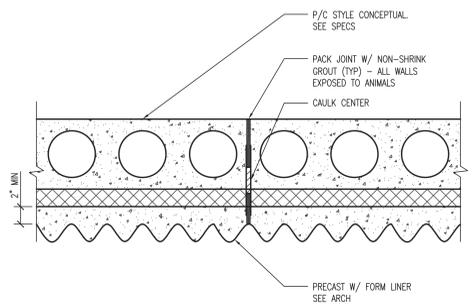
4 INTERIOR WALL @ BEAR HOLDING  
SCALE: 1" = 1'-0"



5 CIP TO PC AT BEAR HOLDING  
SCALE: 1" = 1'-0"

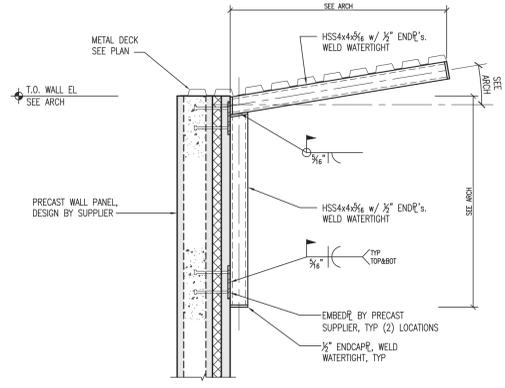


6 PRECAST JOINT DETAIL @ ANIMAL EXPOSURE  
SCALE: 1 1/2" = 1'-0"

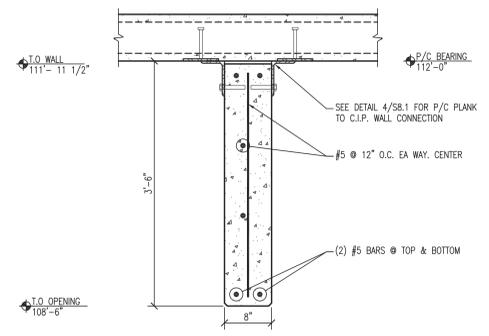


10 ADDITIONAL CONCRETE WALL REINFORCING AT OPENINGS  
SCALE: NTS

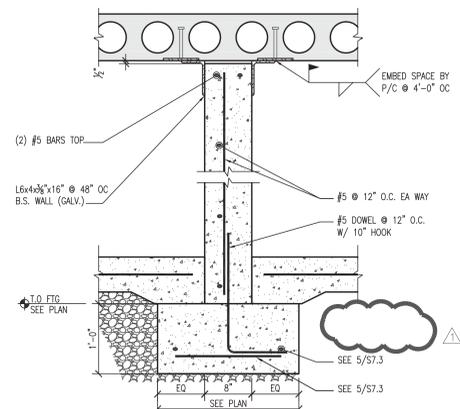
7 SUN SHADE FRAME DETAIL  
SCALE: 3/4" = 1'-0"



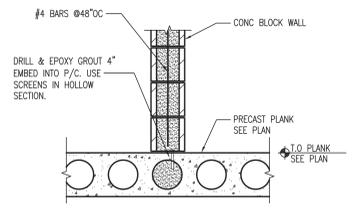
8 HEADER @ BEAR HOLDING  
SCALE: 1" = 1'-0"



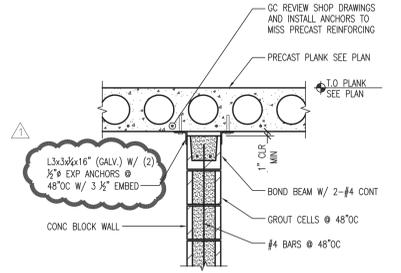
9 INTERIOR WALL @ SEAL  
SCALE: 1" = 1'-0"



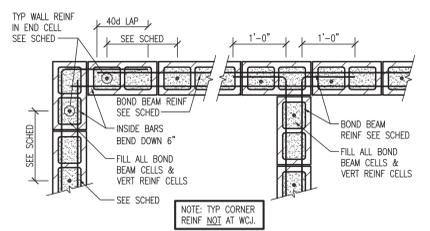
11 MASONRY WALL SECTION  
SCALE: 3/4" = 1'-0"



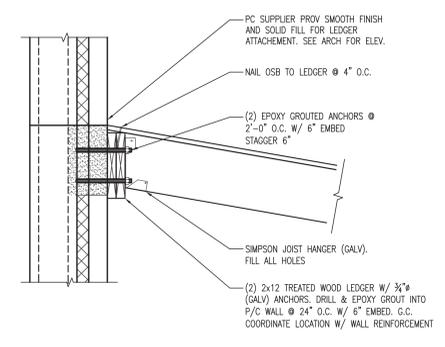
12 MASONRY WALL SECTION  
SCALE: 3/4" = 1'-0"



13 MASONRY CORNER REINFORCING  
SCALE: 3/4" = 1'-0"



14 CANOPY TO PC WALL  
SCALE: 1" = 1'-0"



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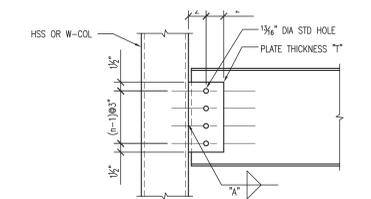
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WDM No. 13046  
drawn: MP2  
checked: MP2  
PRECAST FRAMING DETAILS

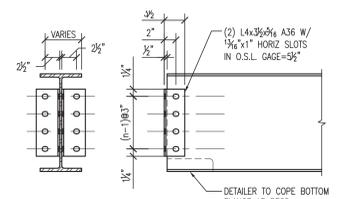
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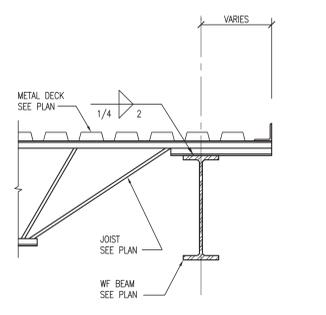
BOLTING SCHEDULE FOR SINGLE PLATE CONNECTIONS (WELD-BOLT)			
ROWS OF 3/4" A325N BOLTS (n)	NOMINAL BEAM DEPTH	PLATE THICKNESS "T" (in)	WELD SIZE "A" (in)
2	W8 - W10	3/8	5/16
3	W12 - W14	3/8	5/16
4	W16 - W18	3/8	5/16
5	W21 - W24	3/8	5/16
N/A	W27 - W30		
N/A	W33 - W36		

1 BEAM TO COLUMN SINGLE PLATE CONNECTION  
SCALE: NTS

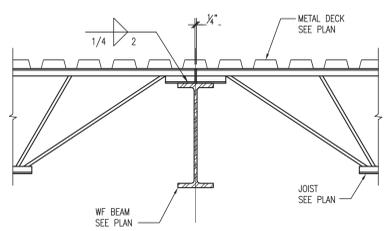


DOUBLE ANGLE CONNECTION (BOLT-BOLT)	
ROWS OF 3/4" A325N BOLTS (n)	NOMINAL BEAM DEPTH
2	W8 - W10
3	W12 - W14
4	W16 - W18
5	W21 - W24
6	W27 - W30
7	W33 - W36

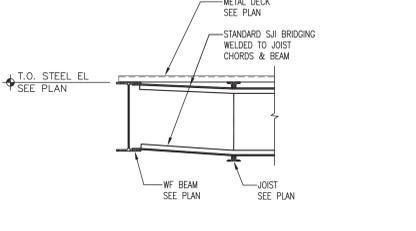
2 BEAM TO BEAM DOUBLE ANGLE CONNECTION  
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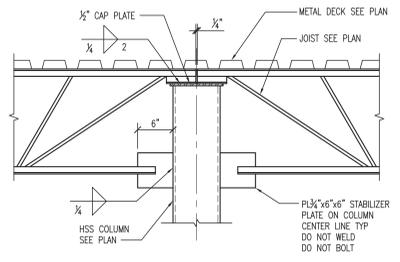
3 STEEL SECTION  
SCALE: 1"=1'-0"



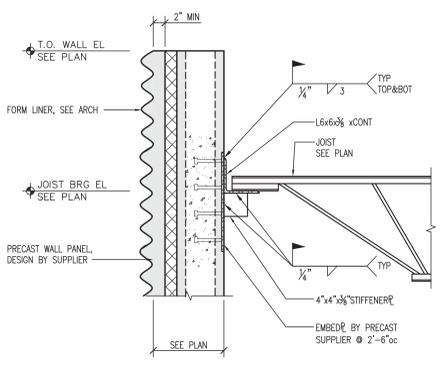
4 STEEL SECTION  
SCALE: 1"=1'-0"



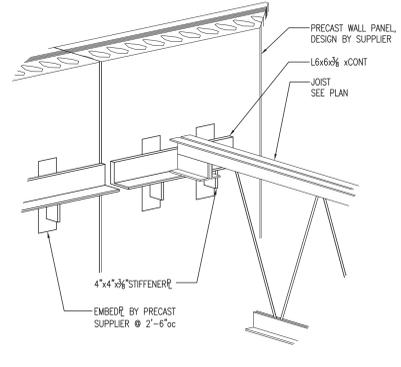
5 BRIDGING ANCHORAGE DETAIL  
SCALE: 3/4"=1'-0"



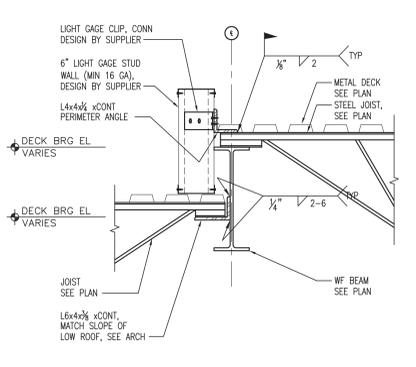
6 STEEL SECTION  
SCALE: 1"=1'-0"



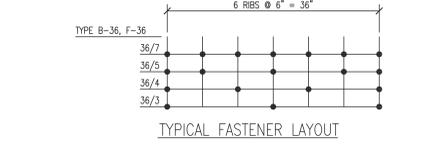
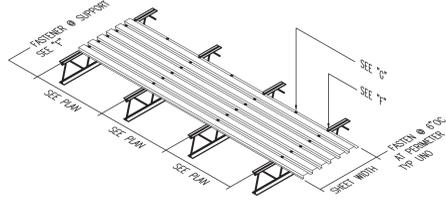
7 JOIST BRG ON PRECAST WALL  
SCALE: 1"=1'-0"



8 JOIST BRG ON PRECAST WALL  
SCALE: 1"=1'-0"



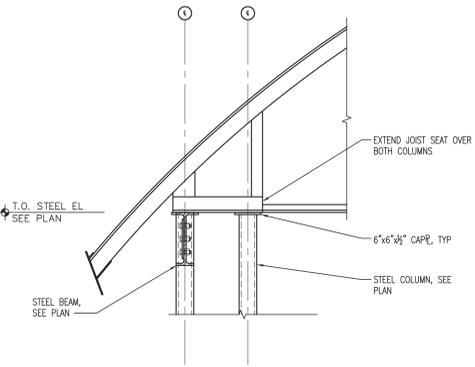
9 STEEL SECTION  
SCALE: 1"=1'-0"



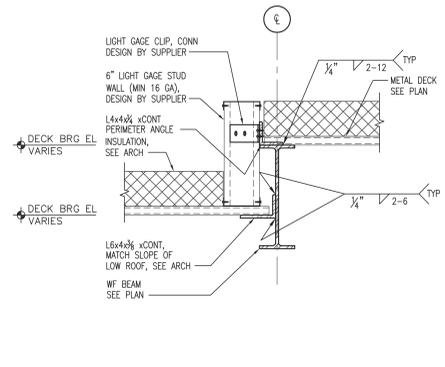
TYPICAL FASTENER LAYOUT									
DECK ID	DECK TYPE (DEPTH)	MIN SECTION PROPERTIES	DESIGN # OF SPANS	SUPPORT CONN PATTERN	SIDELAP CONN (PER SPAN)	NOTES	H		
								Sx pos	Sx neg
D1	ROOF DECK	1.5B	20	0.235 IN <sup>3</sup>	0.247 IN <sup>3</sup>	3	36/5	2-#12 SELF-DRILLING SCREWS OR WELD	1.3

- NOTES:  
 1. ALL DECK PROPERTIES SHOWN SHALL BE WITHIN ± 3%  
 2. SEE ARCHITECTURAL PLAN FOR PITCH CHANGES & FINISH.  
 3. PROVIDE BULDEX SCREW PER BULDEX REPORT NO. 845 FOR SELF-DRILLING SCREWS.  
 4. ENLAPMENTS SHALL OCCUR AT SUPPORT POINTS.

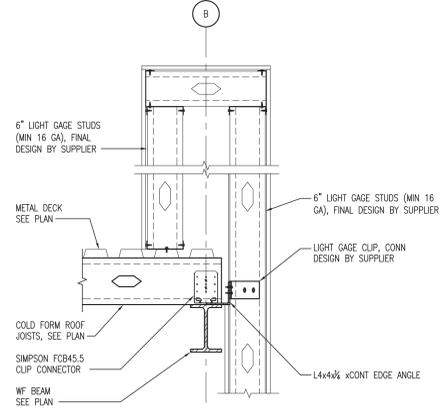
10 METAL DECK SCHEDULE AND DECK ATTACHMENT  
SCALE: NTS



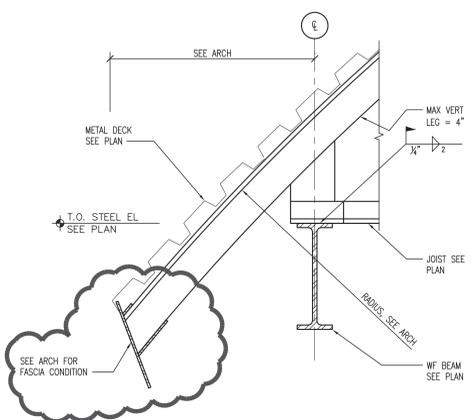
11 JOIST COLUMN CONNECTION  
SCALE: 3/4"=1'-0"



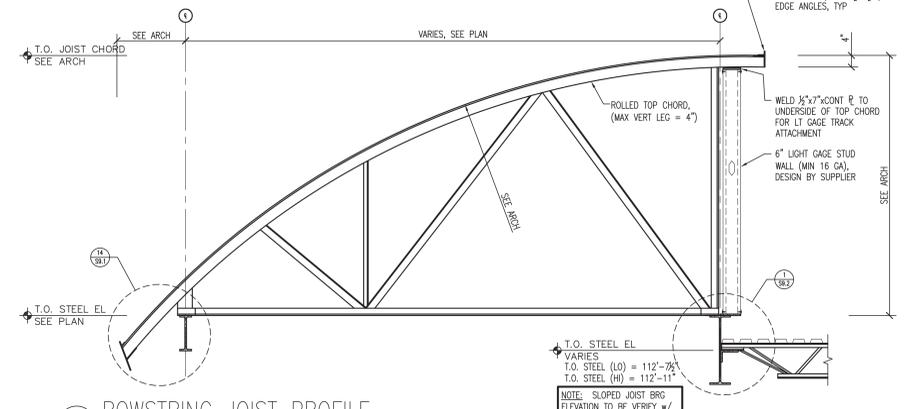
12 DECK BRG @ SLOPING BEAM  
SCALE: 1"=1'-0"



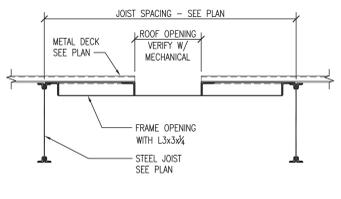
13 ROOF FRAMING DETAIL  
SCALE: 1"=1'-0"



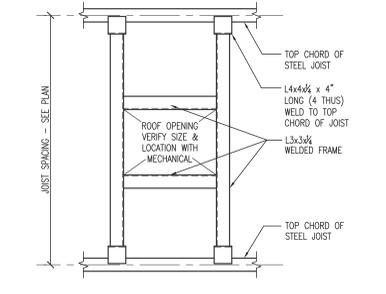
14 BOWSTRING JOIST TAIL DETAIL  
SCALE: 1 1/2"=1'-0"



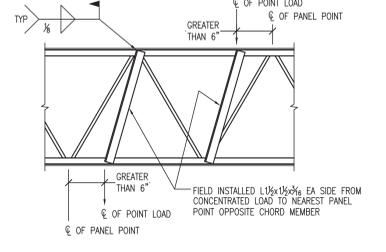
15 BOWSTRING JOIST PROFILE  
SCALE: 1/2"=1'-0"



16 FRAMING AT ROOF OPENING  
SCALE: 3/4"=1'-0"



17 FRAMING AT ROOF OPENING  
SCALE: 3/4"=1'-0"



18 TYP JOIST REINFORCEMENT AT CONCENTRATED LOADS  
SCALE: NTS

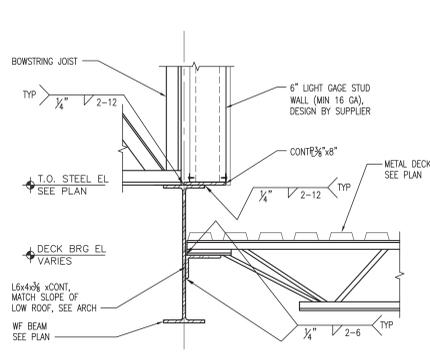
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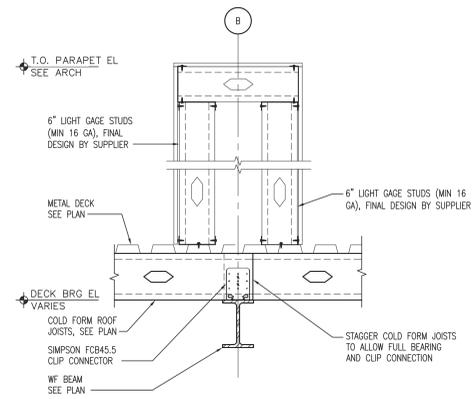
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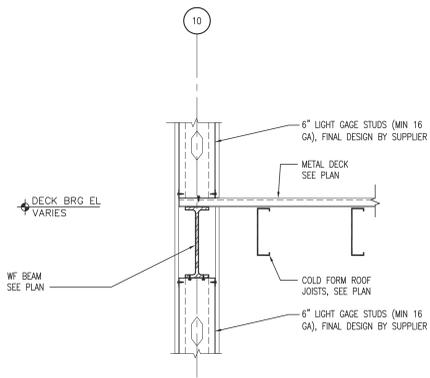
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 draw: MP2  
 checked: MP2  
 STEEL FRAMING DETAILS



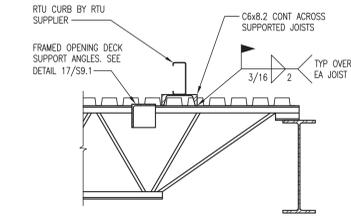
1 SECTION @ HI/LO ROOF  
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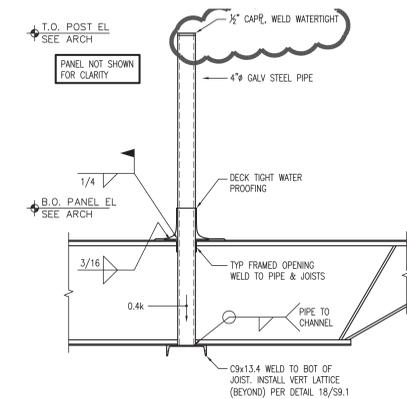
2 ROOF FRAMING DETAIL (ALT BID)  
SCALE: 1"=1'-0"



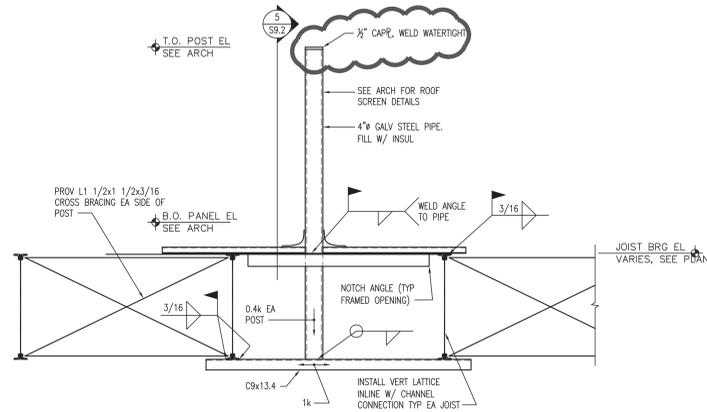
3 ROOF FRAMING DETAIL (ALT BID)  
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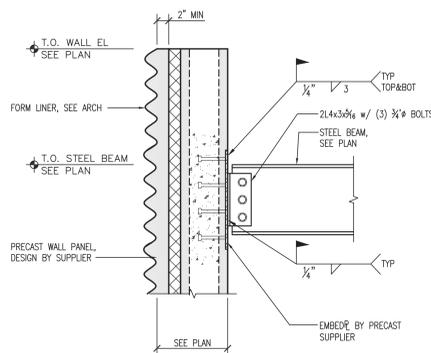
4 RTU SUPPORT  
SCALE: 1"=1'-0"



5 SHELF ANGLE BRACKET  
SCALE: 3/4"=1'-0"

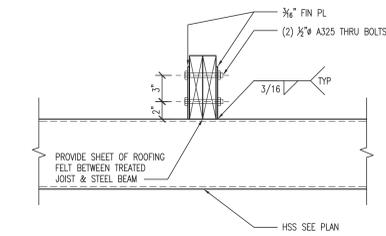


6 SHELF ANGLE BRACKET  
SCALE: 3/4"=1'-0"



7 STEEL BEAM @ PC WALL  
SCALE: 1"=1'-0"

8 NOT USED  
SCALE: NTS



9 ROOF JOIST TO HSS BEAM  
SCALE: 1 1/2"=1'-0"



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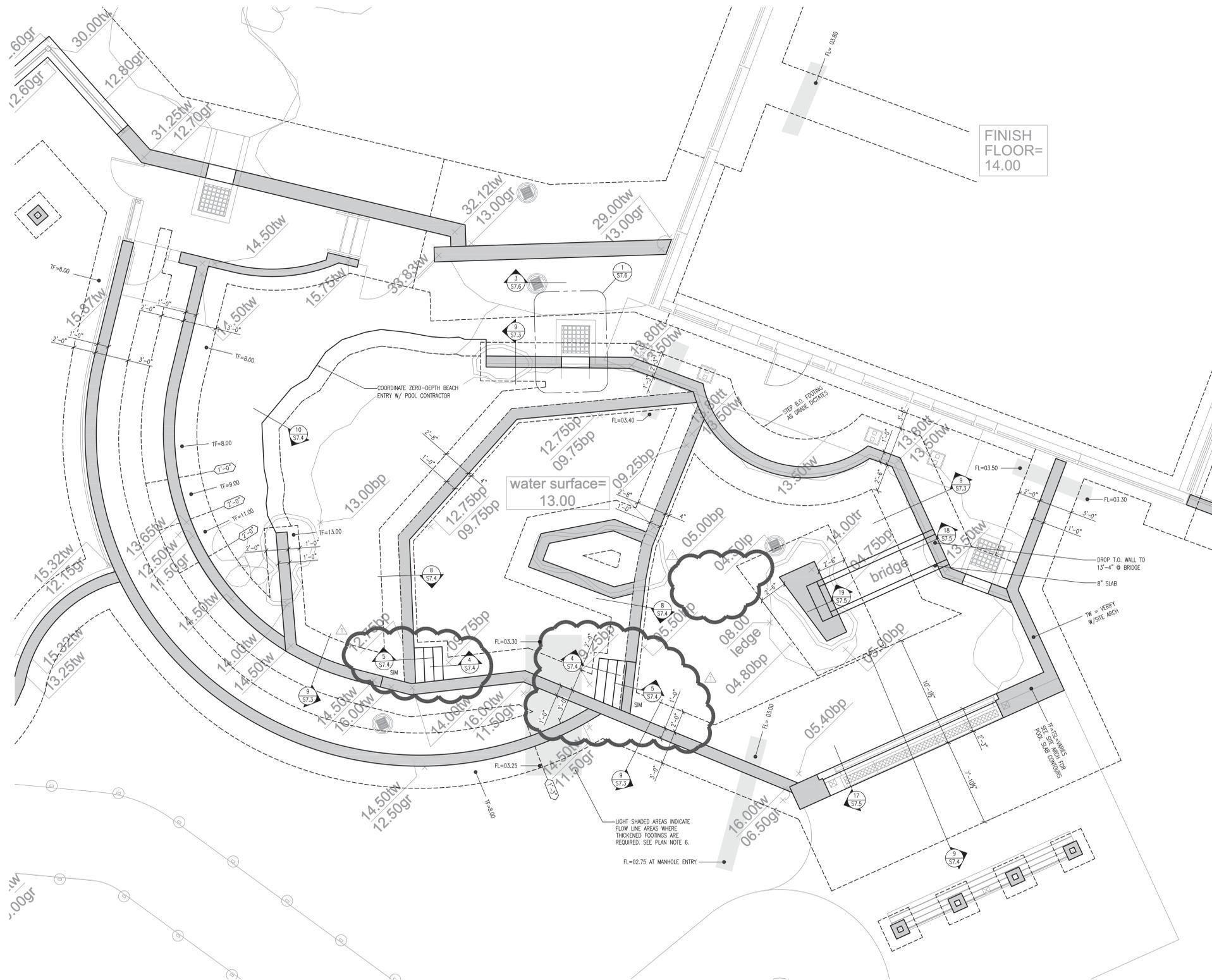
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checked: MP2

STEEL FRAMING DETAILS

S9.2





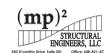
**PLAN NOTES**

1. RETAINING WALLS SIZED USING THE FOLLOWING PRESUMPTIVE PARAMETERS:  
 ALLOWABLE BEARING PRESSURE = 2,000 PSF  
 ETP (ACTIVE) = 30 PSF
2. WALL THICKNESS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED & DOES NOT INCLUDE FORM LINER PROFILE. INCREASE WALL THICKNESS AS REQUIRED TO ACCOMMODATE FORM LINER. SEE ARCH FOR FORM LINER SPECIFICATION.
3. GEOTECHNICAL INFORMATION TAKEN FROM CGC EXPLORATION REPORT. SEE SD.1.
4. SEE SHEET S7.4 DETAIL 11 FOR EXTENSION AT EXISTING SITE RETAINING WALLS.
5. SEE SHEET S7.4 DETAIL 12 FOR TYPICAL EXISTING CAST-IN-PLACE WALL OPENING INFILL REQUIREMENTS.
6. THICKEN FOOTING IN LOCATIONS INDICATED TO ACHIEVE 6" CONCRETE BELOW FLOW LINE ELEVATIONS PER S46.0 UNDERSLAB DRAINAGE PLAN.
7. SEE SHEET S7.5 DETAILS 15 & 16 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS, UNLESS NOTED OTHERWISE.
8. REFERENCE SITE ARCH FOR ALL WALL OPENING LOCATIONS & SIZES.
9. SEE SHEET S7.4 DETAIL 1 FOR CONTROL JOINT & EXPANSION JOINT REQUIREMENTS.
10. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & WALL CORNER REINFORCING.
11. SEE SHEET S7.6 DETAIL 4 FOR REINFORCEMENT AT POOL LEVEL SENSOR.

LIGHT SHADED AREAS INDICATE FLOW LINE AREAS WHERE THICKENED FOOTINGS ARE REQUIRED. SEE PLAN NOTE 6.

FL=02.75 AT MANHOLE ENTRY

**1 SEAL POOL WALL PLAN**  
 SCALE: 1/4" = 1'-0"



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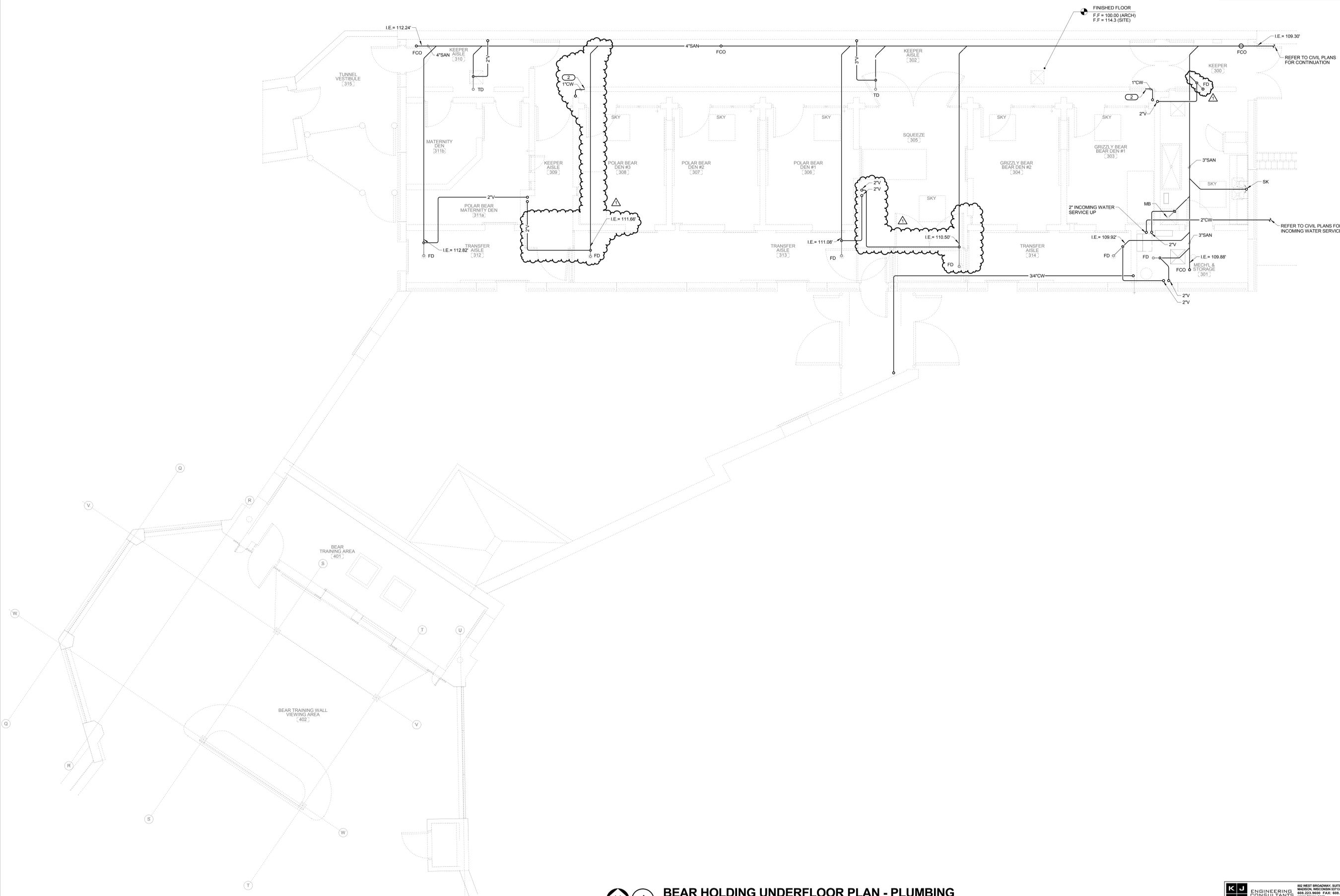
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 draw: MP2  
 checked: MP2

SEAL POOL WALL PLAN

**SR1.4**

GENERAL NOTES:  
 1. ALL PIPE INVERTS ARE WITH RESPECT TO SITE ELEVATIONS.  
 2. CONNECT 1" CW TO TRENCH DRAIN.



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**13046** checked: RKJ  
 BEAR HOLDING UNDERFLOOR  
 PLAN - PLUMBING

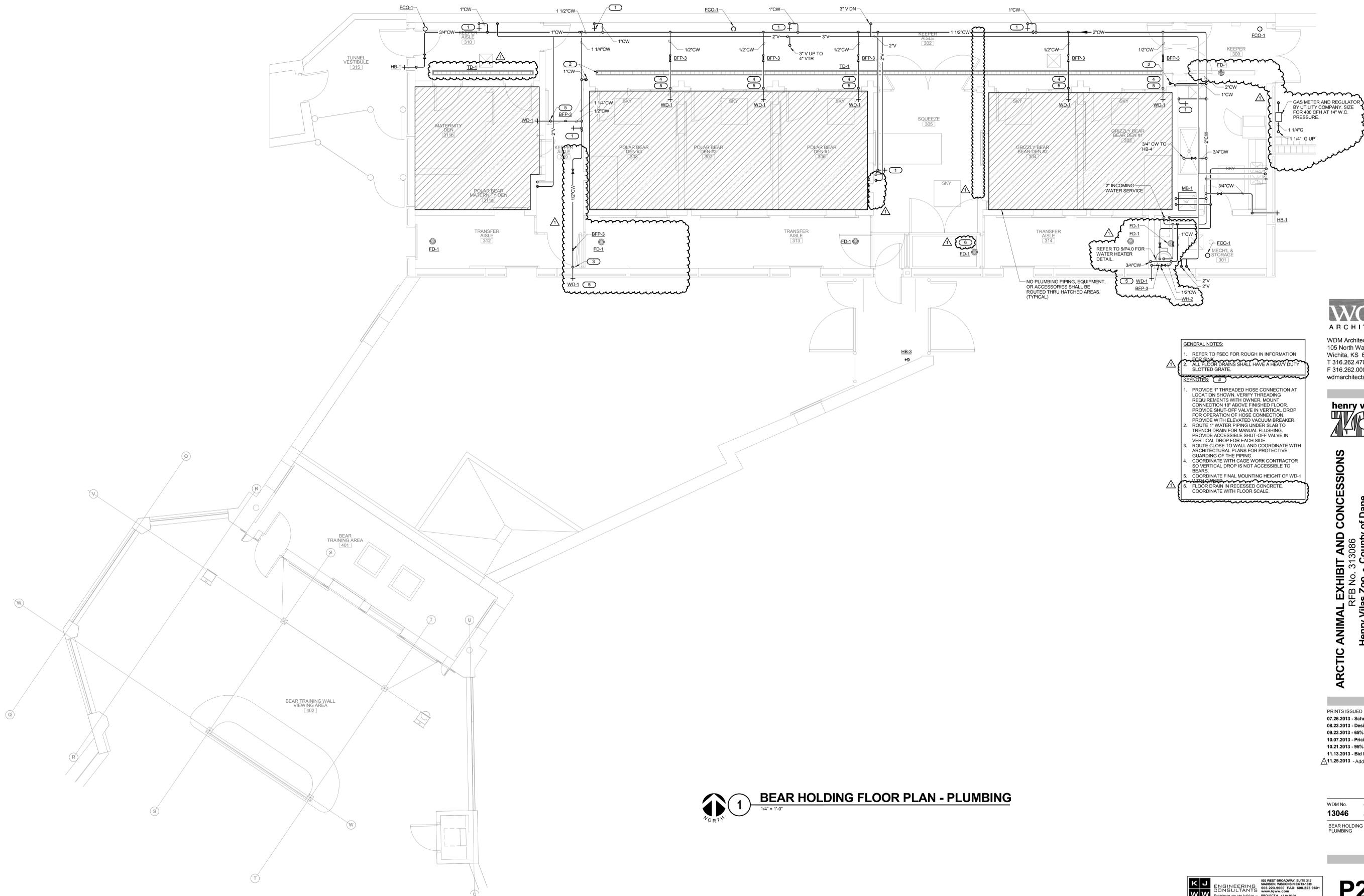
**1** BEAR HOLDING UNDERFLOOR PLAN - PLUMBING  
 1/4" = 1'-0"

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**P2.0**



- GENERAL NOTES:**
1. REFER TO FSEC FOR ROUGH IN INFORMATION FOR SLOPE
  2. ALL FLOOR DRAINS SHALL HAVE A HEAVY DUTY SLOTTED GRATE
- REMARKS:**
1. PROVIDE 1" THREADED HOSE CONNECTION AT LOCATION SHOWN. VERIFY THREADING REQUIREMENTS WITH OWNER. MOUNT CONNECTION 18" ABOVE FINISHED FLOOR. PROVIDE SHUT-OFF VALVE IN VERTICAL DROP FOR OPERATION OF HOSE CONNECTION. PROVIDE WITH ELEVATED VACUUM BREAKER.
  2. ROUTE 1" WATER PIPING UNDER SLAB TO TRENCH DRAIN FOR MANUAL FLUSHING. PROVIDE ACCESSIBLE SHUT-OFF VALVE IN VERTICAL DROP FOR EACH SIDE.
  3. ROUTE CLOSE TO WALL AND COORDINATE WITH ARCHITECTURAL PLANS FOR PROTECTIVE GUARDING OF THE PIPING.
  4. COORDINATE WITH GAGE WORK CONTRACTOR SO VERTICAL DROP IS NOT ACCESSIBLE TO BEARS.
  5. COORDINATE FINAL MOUNTING HEIGHT OF WD-1 WITH ARCHITECTURAL PLANS.
  6. FLOOR DRAIN IN RECESSED CONCRETE. COORDINATE WITH FLOOR SCALE.

**1 BEAR HOLDING FLOOR PLAN - PLUMBING**  
1/4" = 1'-0"



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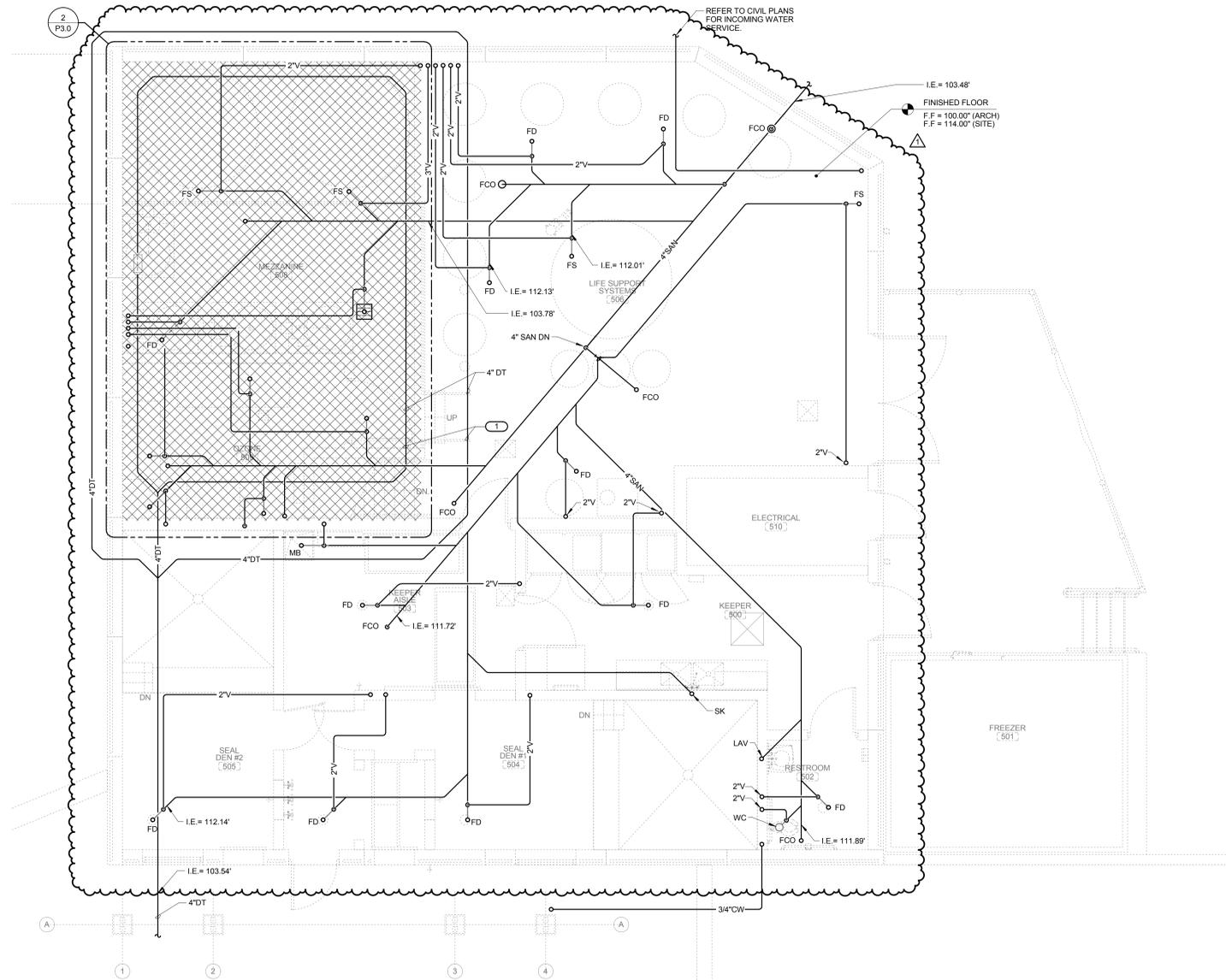
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BEAR HOLDING FLOOR PLAN - PLUMBING

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**P2.1**



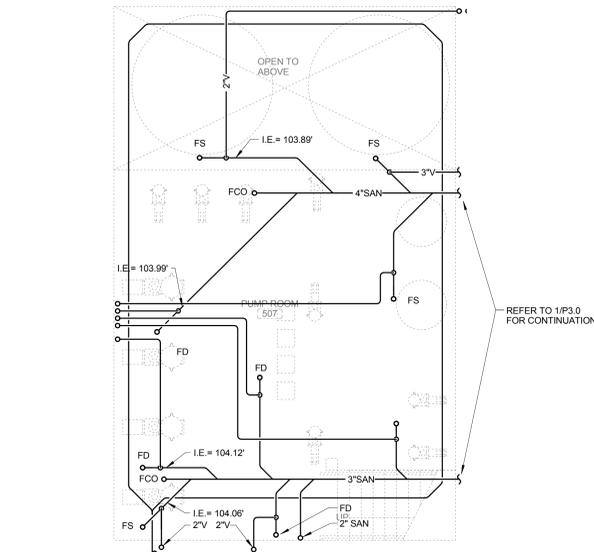
**GENERAL NOTES:**

1. ALL PIPE INVERTS ARE WITH RESPECT TO SITE ELEVATIONS.

**KEYNOTES:** #

1. PROVIDE 4\"/>

**1 SEAL HOLDING UNDERFLOOR PLAN - PLUMBING**  
1/4\"/>



**2 SEAL UNDERFLOOR LOWER LEVEL PLAN - PLUMBING**  
1/4\"/>



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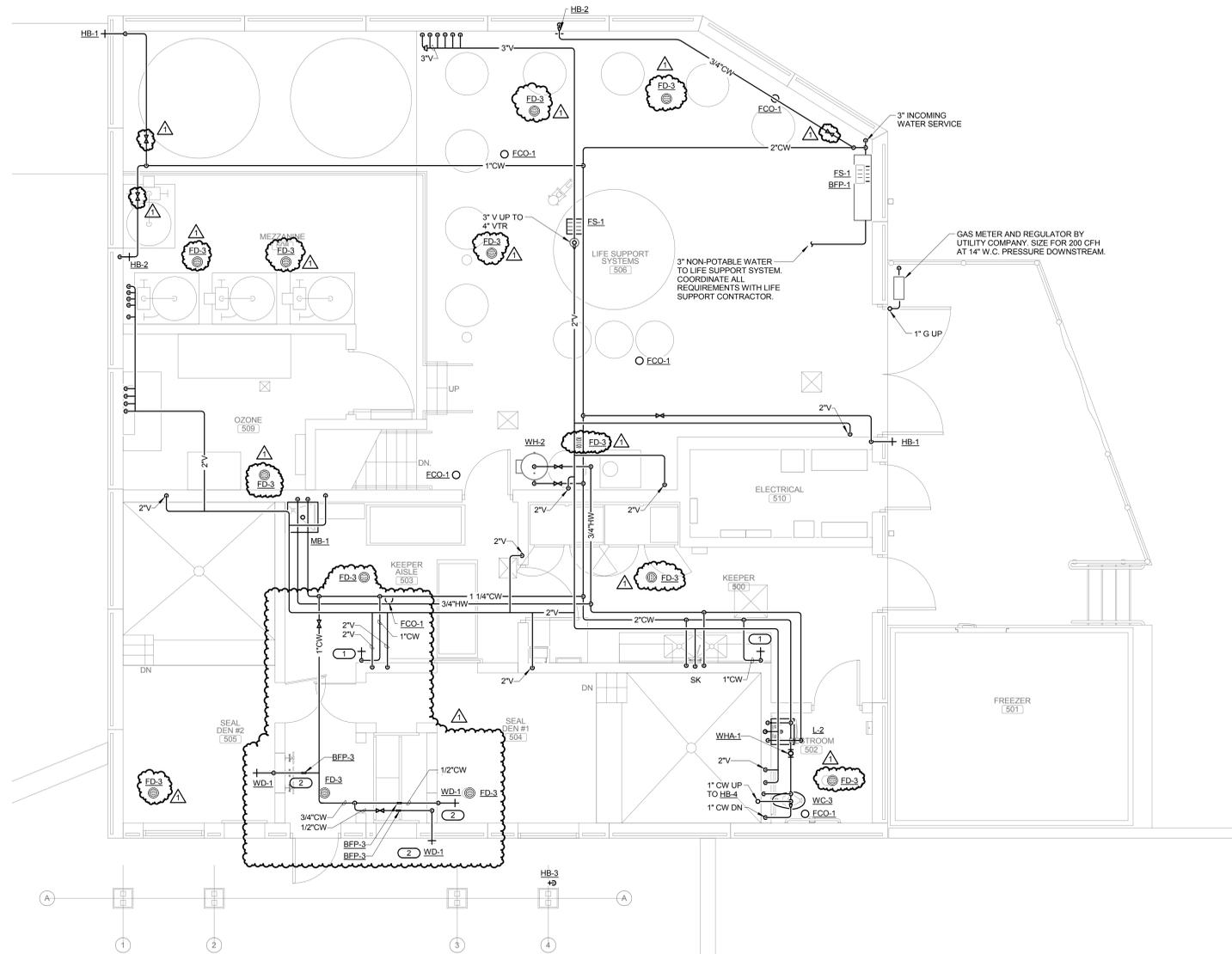
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SEAL HOLDING UNDERFLOOR  
PLAN - PLUMBING

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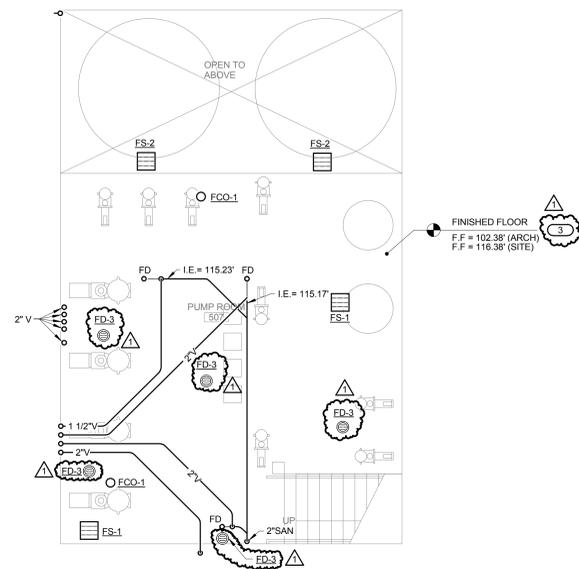
REFERENCE SCALE IN INCHES  
0 1 2 3

**P3.0**



- GENERAL NOTES:**
- REFER TO FSEC FOR ROUGH IN INFORMATION FOR SINK.
  - ALL HANGERS SHALL BE SUITABLE FOR SALT WATER ENVIRONMENT. REFER TO SPECIFICATION FOR DETAILS.
- KEYNOTES:** ( # )
- PROVIDE 1" THREADED HOSE CONNECTION AT LOCATION SHOWN. VERIFY THREADING REQUIREMENTS WITH OWNER. MOUNT CONNECTION 18" ABOVE FINISHED FLOOR. PROVIDE SHUT-OFF VALVE IN VERTICAL DROP FOR OPERATION OF HOSE BIBB. PROVIDE WITH ELEVATED VACUUM BREAKER.
  - COORDINATE FINAL MOUNTING HEIGHT OF WD-1 TO THE FINISHED FLOOR OF THE MEZZANINE.

**1 SEAL HOLDING FLOOR PLAN - PLUMBING**  
1/4" = 1'-0"



**2 SEAL LOWER LEVEL PLAN - PLUMBING**  
1/4" = 1'-0"

**wdm**  
ARCHITECTS

WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com

**henry vilas**  
**700**

**ARCTIC ANIMAL EXHIBIT AND CONCESSIONS**  
RFB No. 313086  
**Henry Vilas Zoo - County of Dane**  
**Henry Vilas Zoo - Department of Public Works**  
702 S Randall Ave  
Madison, Wisconsin

**PRINTS ISSUED**

- 07.26.2013 - Schematic Design
- 08.23.2013 - Design Development
- 09.23.2013 - 65% CD's
- 10.07.2013 - Pricing Set
- 10.21.2013 - 95% CD's
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- 11.25.2013 - Addendum #3

WDM No. drawn: MRE  
**13046** checked: RKJ

SEAL HOLDING FLOOR PLAN - PLUMBING

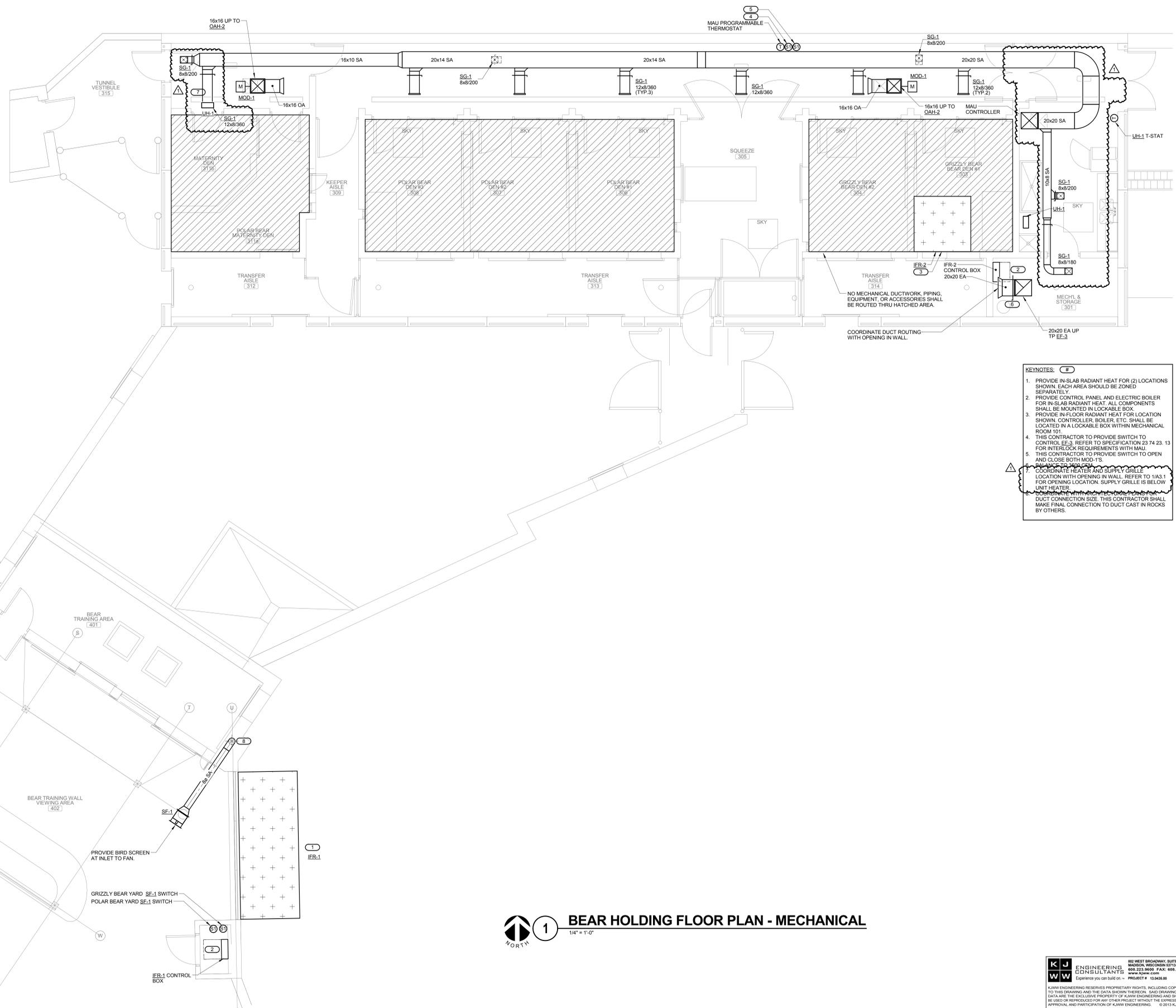
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REFERENCE SCALE IN INCHES  
0 1 2 3

**P3.1**



- KEYNOTES:**
1. PROVIDE IN-SLAB RADIANT HEAT FOR (2) LOCATIONS SHOWN. EACH AREA SHOULD BE ZONED SEPARATELY.
  2. PROVIDE CONTROL PANEL AND ELECTRIC BOILER FOR IN-SLAB RADIANT HEAT. ALL COMPONENTS SHALL BE MOUNTED IN LOCKABLE BOX.
  3. PROVIDE IN-FLOOR RADIANT HEAT FOR LOCATION SHOWN. CONTROLLER, BOILER, ETC. SHALL BE LOCATED IN A LOCKABLE BOX WITHIN MECHANICAL ROOM 101.
  4. THIS CONTRACTOR TO PROVIDE SWITCH TO CONTROL EE-3. REFER TO SPECIFICATION 23.74.23.13 FOR INTERLOCK REQUIREMENTS WITH MAU.
  5. THIS CONTRACTOR TO PROVIDE SWITCH TO OPEN AND CLOSE BOTH MOD-1'S.
  6. PROVIDE TO BEA DEN.
  7. COORDINATE HEATER AND SUPPLY GRILLE LOCATION WITH OPENING IN WALL. REFER TO 1A3.1 FOR OPENING LOCATION. SUPPLY GRILLE IS BELOW UNIT HEATER.
- NO MECHANICAL DUCTWORK, PIPING, EQUIPMENT, OR ACCESSORIES SHALL BE ROUTED THRU HATCHED AREA.
- COORDINATE DUCT ROUTING WITH OPENING IN WALL.



WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
wdmarchitects.com



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**Henry Vilas Zoo - Department of Public Works**  
702 S Randall Ave  
Madison, Wisconsin 53706  
1919 Alliant Energy Center Way  
Madison, Wisconsin

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BEAR HOLDING FLOOR PLAN - MECHANICAL

**1 BEAR HOLDING FLOOR PLAN - MECHANICAL**  
1/4" = 1'-0"

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**M2.1**

11/25/2013 4:11:04 PM

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- KEYNOTES:**
1. BFP-1FP SHALL BE INSTALLED IN VERTICAL ORIENTATION IN MECH ROOM TO CONSERVE SPACE.
  2. PROVIDE DRY-TYPE SPRINKLER (SPR-3) IN WALK-IN COOLER AND FREEZER.
  3. ROUTE MAIN FP DRAIN TO EXTERIOR AT THIS LOCATION.
  4. PROVIDE SIDEWALL TYPE SPRINKLER (SPR-4) IN TECHNOLOGY ROOM.
  5. ROUTE PIPING DOWN IN COLUMN ENCLOSURE FROM HIGH CEILING. ROUTE HORIZONTALLY IN WALL CAVITY AS SHOWN.
  6. ROUTE PIPING IN SOFFIT. REFER TO ARCH PLANS FOR SOFFIT DETAIL. PROVIDE SIDEWALL SPRINKLERS (SPR-4) TO COVER VESTIBULE. NO SPRINKLER PIPING SHALL BE EXPOSED IN VESTIBULE.

**2 ALTERNATE DEN FLOOR PLAN - FIRE PROTECTION**  
1/4" = 1'-0"

**1 RESTAURANT FLOOR PLAN - FIRE PROTECTION**  
1/4" = 1'-0"



WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
T 316.262.4700  
F 316.262.0002  
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WDM No. 13046  
drawn: MRE  
checked: RKJ

RESTAURANT FLOOR PLAN - FIRE PROTECTION

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MADISON, WISCONSIN 53703-1038  
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REFERENCE SCALE IN INCHES  
1 2 3

**F1.1**

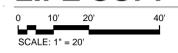


- GENERAL NOTES:**
1. ENLARGED POOL PIPING PLANS ARE SHOWN ON LSS2.0
  2. ANGLES OF POOL PIPING ARE APPROXIMATE. POOL PIPING SHALL BE INSTALLED WITH MANUFACTURED FITTINGS HAVING STANDARD ANGLES. PIPING SHALL NOT BE TORQUED INTO NON-STANDARD ANGLES.
  3. CHANGES IN DIRECTION OF HORIZONTAL PIPE SHALL BE MADE WITH FITTINGS OF 45° OR LESS.
  4. LINK-SEALS SHALL BE INSTALLED AT ALL LIFE SUPPORT PIPING PENETRATIONS THROUGH FORMED CONCRETE WITH WATER ON ONE OR BOTH SIDES. SEE DETAIL 5/LSS4.0.
  5. LS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING REQUIRED TO MAKE LS SYSTEM COMPLETE AND FULLY OPERATIONAL.
  6. UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING 4" AND LARGER SHALL BE PRESSURE PIPE CLASS 150, SDR 18, AWWA C900.
  7. UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING SHALL BE ROUTED TO AND FROM THE POOLS BELOW THE FROST LINE (APPROX. 48" BELOW GRADE).
  8. UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING SMALLER THAN 4" SHALL BE SCHEDULE 80 PVC.
  9. LIFE SUPPORT CONTRACTOR (LSC) MUST SUBMIT ON AND MEET QUALIFICATION REQUIREMENTS TO BE A VALID SUBCONTRACTOR ON THIS PROJECT. SEE LS SPECIFICATION SECTION 223300, 1.5 FOR REQUIREMENTS TO QUALIFY AS LS2 ON THIS PROJECT.

**FLAG NOTES**

1. ROUTE LEVEL SENSOR CONTROL WIRING (22 GAUGE OR LARGER, TWO-WIRE PER LEVEL SENSOR MANUFACTURER REQUIREMENTS) IN WATER TIGHT NONMETALLIC CONDUIT ALONG THE PATH OF THE SKIMMER RETURN PIPING. THE WIRING SHALL NOT EXCEED 1000 FEET BETWEEN THE LEVEL SENSOR AND THE CONTROLLER IN THE SEAL BUILDING LIFE SUPPORT SPACE. ALL SENSOR CONDUIT SHALL BE AT LEAST 48 INCHES BELOW GRADE. SEE DETAIL 1/LSS4.3.

**LIFE SUPPORT SYSTEM SITE PIPING PLAN**



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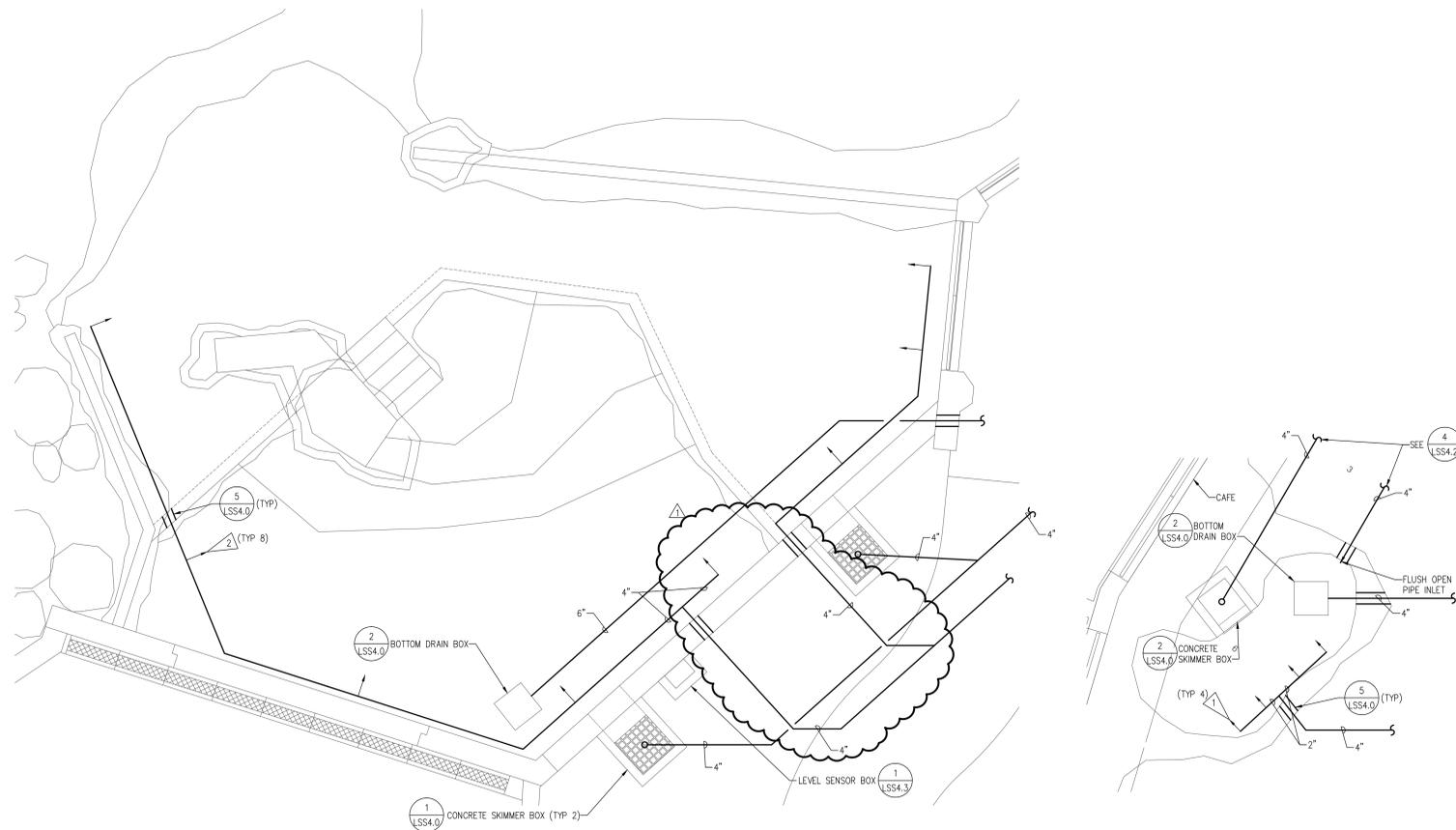


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 Henry Vilas Zoo Department of Public Works  
 702 S Randall Ave  
 Madison, Wisconsin  
 1919 Alliant Energy Center Way  
 Madison, Wisconsin

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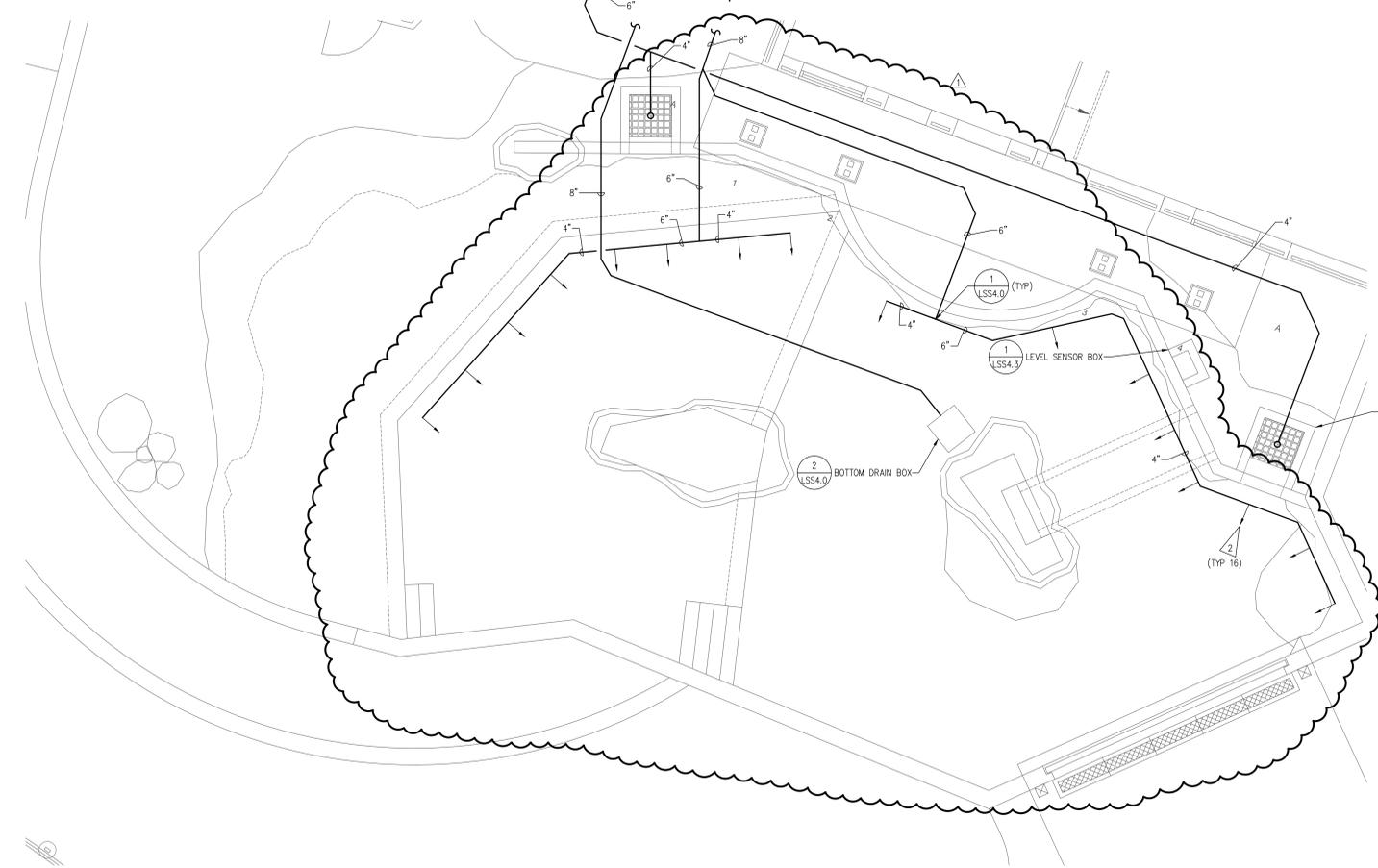
WDM No. 13046 drawn: CPJ  
 checked: STA  
 LIFE SUPPORT SYSTEM SITE PLAN

**LSS1.0**

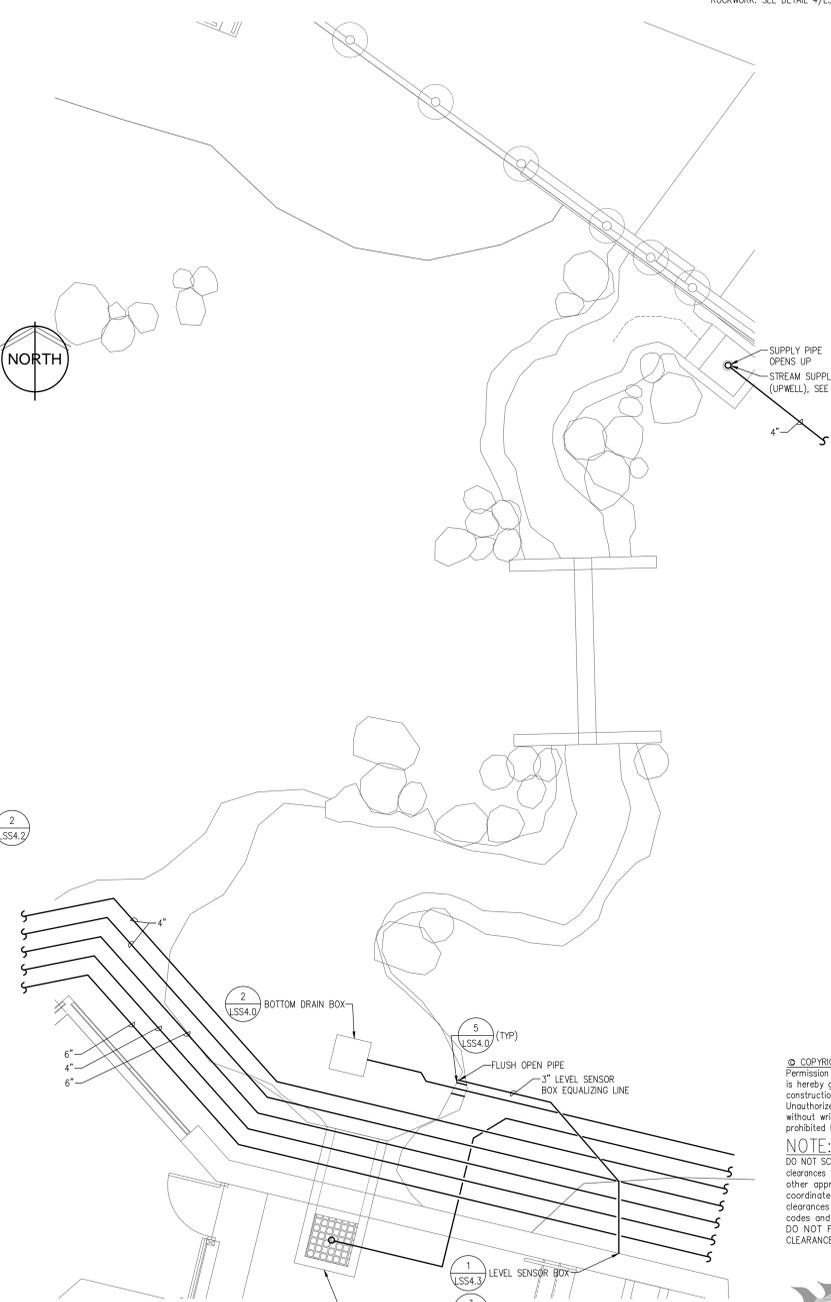


**A ENLARGED POLAR BEAR POOL PLAN**  
BASE BID  
SCALE: 1/4" = 1'-0"  
NORTH

**B ENLARGED POLAR BEAR POOL PLAN**  
BASE BID  
SCALE: 1/4" = 1'-0"  
NORTH



**D ENLARGED SEAL POOL PLAN**  
ALT. 7  
SCALE: 1/4" = 1'-0"  
NORTH



**C ENLARGED GRIZZLY BEAR POOL PLAN**  
BASE BID  
SCALE: 1/4" = 1'-0"  
NORTH

- GENERAL NOTES:**
- ANGLES OF POOL PIPING ARE APPROXIMATE. POOL PIPING SHALL BE INSTALLED WITH MANUFACTURED FITTINGS HAVING STANDARD ANGLES. PIPING SHALL NOT BE TORQUED INTO NON-STANDARD ANGLES.
  - CHANGES IN DIRECTION OF HORIZONTAL PIPE SHALL BE MADE WITH FITTINGS OF 45° OR LESS.
  - LINK-SEAL MODULAR SEALS IN CENTURY-LINE SLEEVES (WWW.LINKSINK.COM) SHALL BE USED AT ALL LOCATIONS WHERE PIPE PENETRATIONS ARE CAST INTO THE POOL CONCRETE WALLS OR FLOORS. SEE DETAIL 5/LSS4.0.
  - LS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING REQUIRED TO MAKE LS SYSTEM COMPLETE AND FULLY OPERATIONAL.
  - UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING 4" AND LARGER SHALL BE PRESSURE PIPE (CLASS 150, SDR 18, AWWA C900).
  - UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING SMALLER THAN 4" SHALL BE SCHEDULE 80 PVC.
  - UNLESS OTHERWISE NOTED, ALL LIFE SUPPORT SITE PIPING SHALL BE ROUTED TO AND FROM THE POOLS BELOW THE FROST LINE (APPROX. 46" BELOW GRADE).
  - PIPING SHALL PENETRATE WALLS OR FOOTINGS PERPENDICULAR TO THE FACE OF THESE OBJECTS. COORDINATE ALL SUCH PENETRATIONS WITH THE CONCRETE CONTRACTOR.
  - SEE THE LIFE SUPPORT SYSTEM SITE PIPING PLAN ON SHEET LSS1.0 FOR CONTINUATION OF ALL PIPES.
  - LIFE SUPPORT CONTRACTOR (LSC) MUST SUBMIT ON AND MEET QUALIFICATION REQUIREMENTS TO BE A VALID SUBCONTRACTOR ON THIS PROJECT. SEE LS SPECIFICATION SECTION 225300, 1.5 FOR REQUIREMENTS TO QUALIFY AS LSC ON THIS PROJECT.

- FLAG NOTES**
- THIS ARROW REPRESENTS ONE 1-1/2" OPEN PIPE INLET WHICH SUPPLIES APPROXIMATELY 20 GPM. THE PIPE SHALL BE TRIMMED FLUSH WITH THE ROCKWORK. SEE DETAIL 4/LSS4.0.
  - THIS ARROW REPRESENTS ONE 2" OPEN PIPE INLET WHICH SUPPLIES APPROXIMATELY 50 GPM. THE PIPE SHALL BE TRIMMED FLUSH WITH THE ROCKWORK. SEE DETAIL 4/LSS4.0.

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**Alvine Aquatics**  
www.alvineaquatics.com  
1102 Douglas on the Hill  
Omaha, Nebraska 68102  
402.346.7007  
F: 402.346.9376

**wdm ARCHITECTS**  
WDM Architects P.A.  
105 North Washington  
Wichita, KS 67202-2815  
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LIFE SUPPORT ENLARGED POOL PLANS

**LSS2.0**