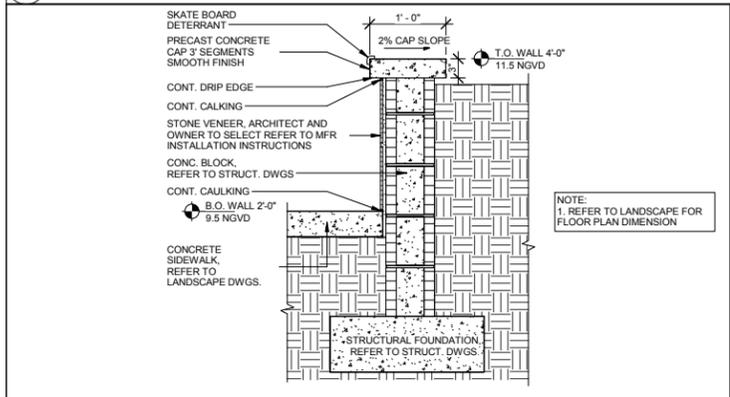
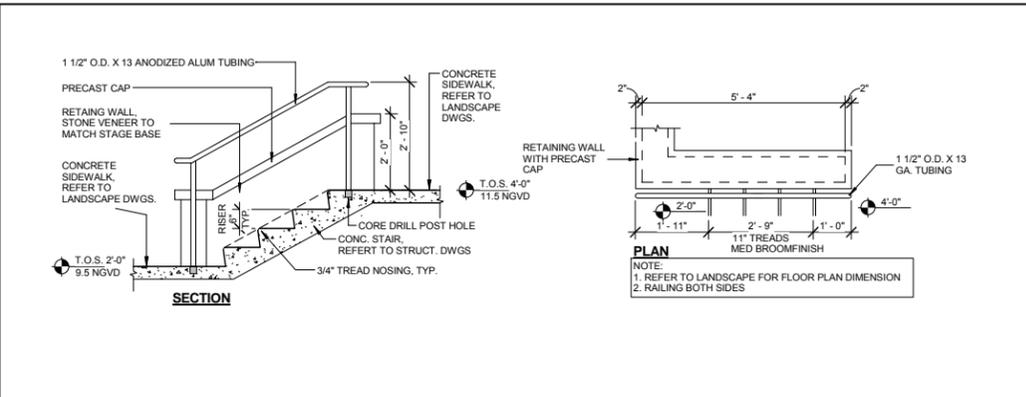


1 ARCHITECTURAL SITE PLAN  
A100 1:300



3 DETAIL - RETAINING WALL @ SITE  
A100 1" = 1'-0"



2 STAIR LANDING @ SITE - GUARDRAIL DETAIL  
A100 1/2" = 1'-0"

**ENVIRONMENTAL LAND USE CONTROLS NOTE:**  
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND/OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK

**NOTE:**  
SITE LIGHTING,  
(REFER TO ELECTRICAL DRAWINGS)



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Suite 1000  
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P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



PROJECT NAME:  
**TRUMAN WATERFRONT PARK AMPHITHEATER**  
PROJECT LOCATION/ADDRESS:  
TRUMAN WATERFRONT PARK  
WEST OF FORT STREET AND THE  
TRUMAN ANNEX DEVELOPMENT,  
NORTH OF KEY WEST NAVAL BASE  
SUB-CONSULTANT INFORMATION:

PROFESSIONAL SEAL:

SUBMITTAL DESCRIPTION / MILESTONE:

**BID SET**  
October 21, 2016

REVISIONS:

NO.	DESCRIPTION

DRAWING SHEET INFORMATION  
BA PROJECT NO.: 15086  
SCALE: As indicated  
DATE:

DRAWING TITLE:  
**ARCHITECTURAL SITE PLAN**  
SHEET NO.

**A100**



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SUB-CONSULTANT INFORMATION:

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SUBMITTAL DESCRIPTION / MILESTONE:

**BID SET**  
October 21, 2016

REVISIONS:

DRAWING SHEET INFORMATION

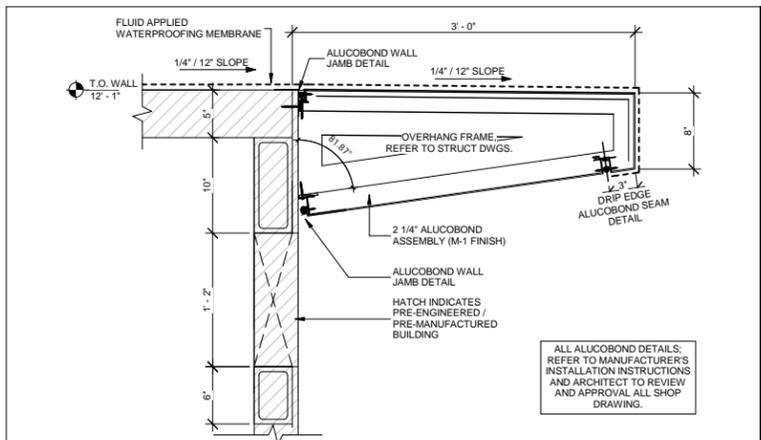
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SCALE: As indicated  
DATE:

DRAWING TITLE:  
**PRE-FAB BATHROOM AND DETAIL**

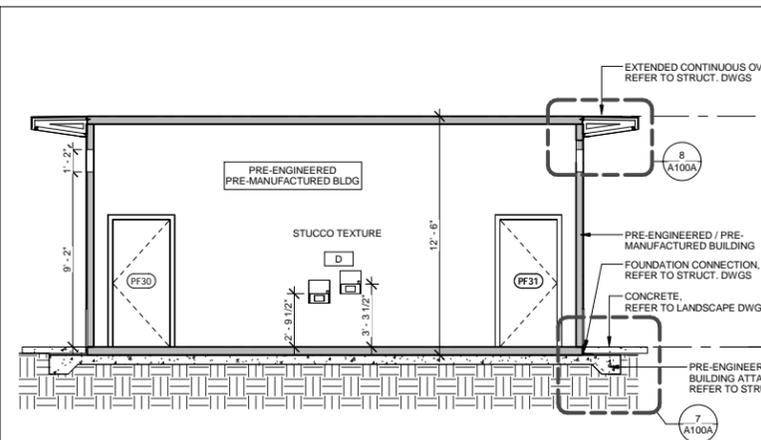
SHEET NO.

**A100A**

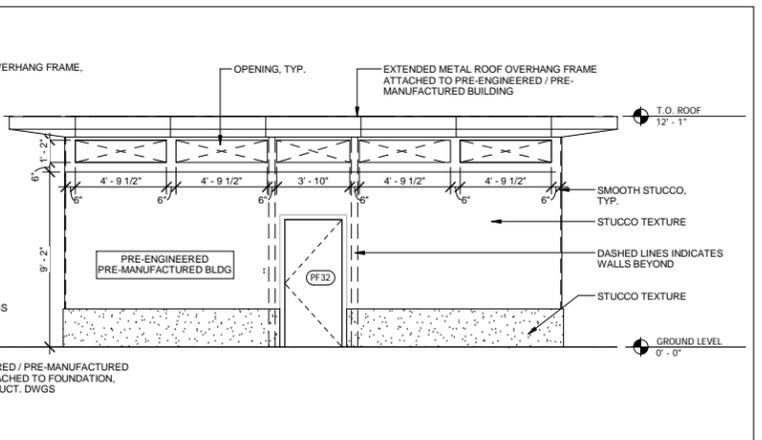
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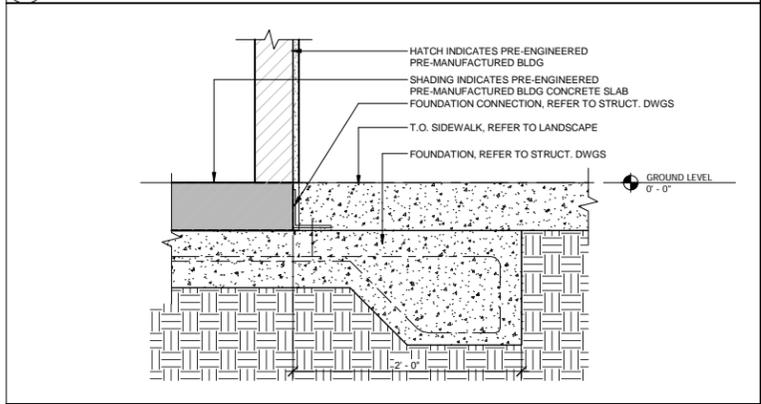
**8 DETAIL SECTION - EXTENDED CONT. ROOF OVERHANG FRAME**  
A100A/ 1 1/2\"/>



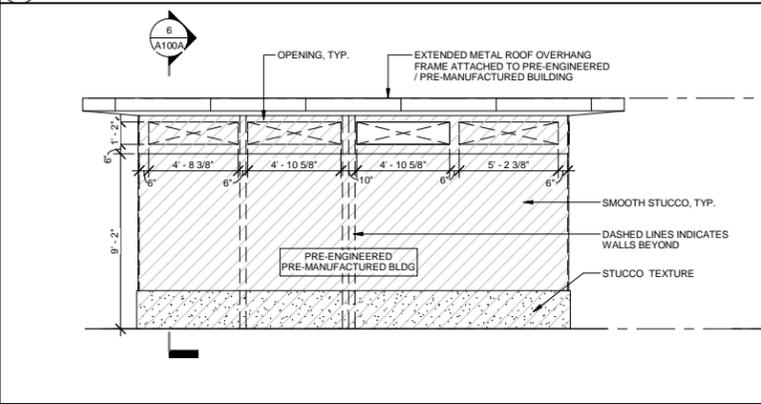
**6 PRE-FAB BATHROOM BUILDING SECTION**  
A100A/ 1/4\"/>



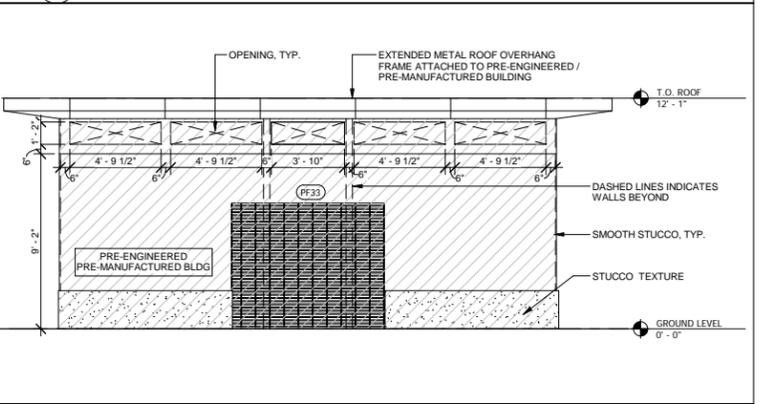
**5 PRE-FAB BATHROOM ELEVATION SOUTH**  
A100A/ 1/4\"/>



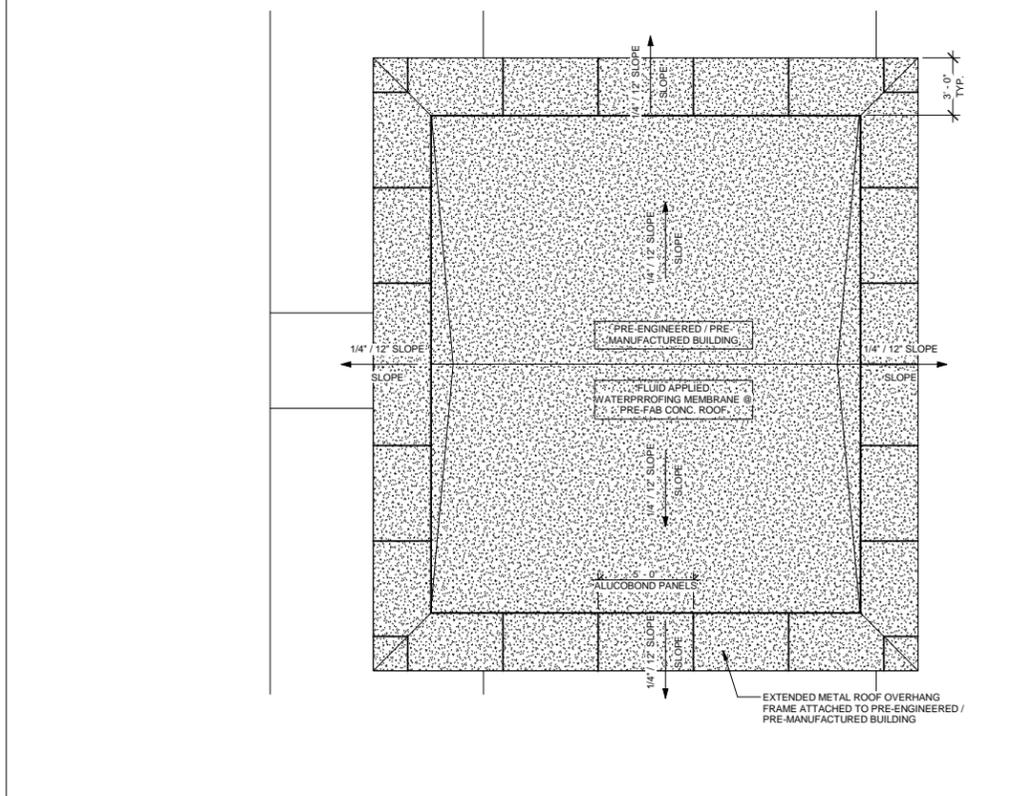
**7 DETAIL SECTION - FOUNDATION**  
A100A/ 1 1/2\"/>



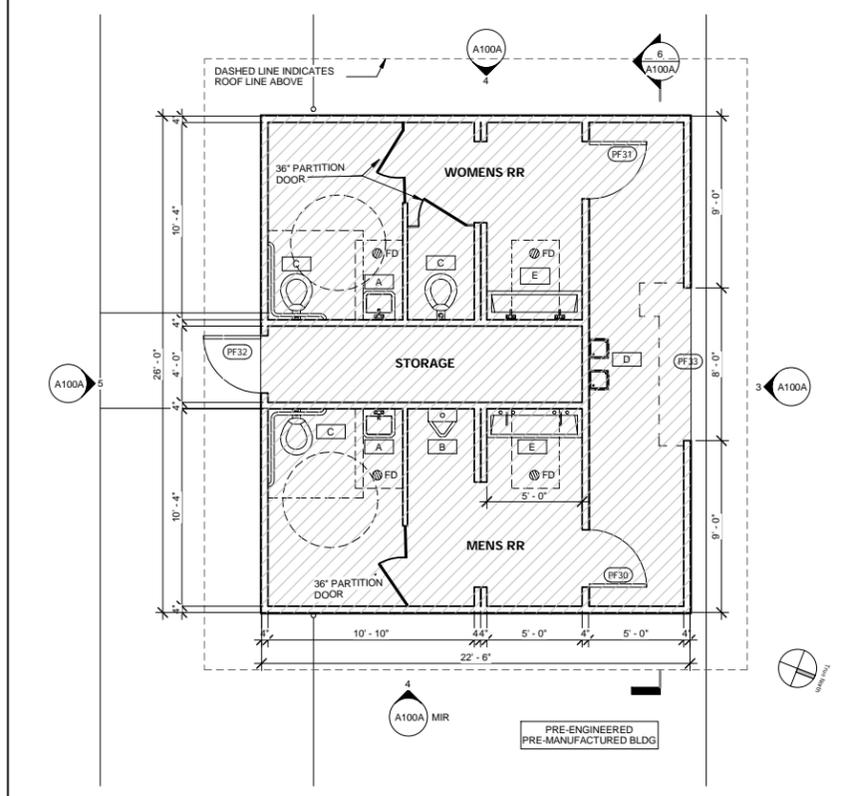
**6 PRE-FAB BATHROOM ELEVATION EAST AND WEST**  
A100A/ 1/4\"/>



**3 PRE-FAB BATHROOM ELEVATION NORTH**  
A100A/ 1/4\"/>



**2 PRE-FAB BATHROOM ROOF PLAN**  
A100A/ 1/4\"/>



**1 PRE-FAB BATHROOM FLOOR PLAN**  
A100A/ 1/4\"/>

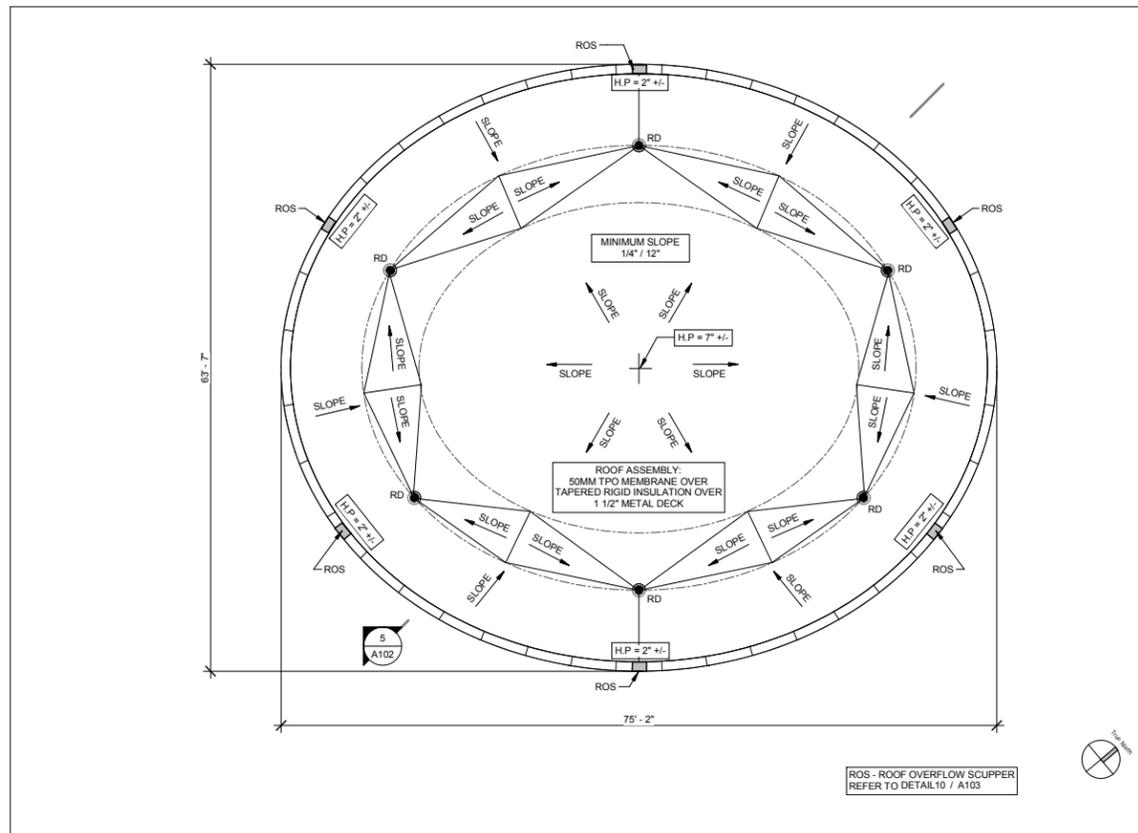
- NOTES:
- BATHROOMS ARE PRE-ENGINEERED / PRE-MANUFACTURED CONNECTED TO STRUCTURAL FOUNDATION, REFER TO STRUCT. DWGS.
  - EXTENDED METAL ROOF OVERHANG FRAME ATTACHED TO PRE-ENGINEERED / PRE-MANUFACTURED BUILDING, REFER TO STRUCT. DWGS.
  - ALL BATHROOM FIXTURES AND ACCESSORIES PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING INCLUDING SINKS, LAVATORIES, MIRROR, SOAP DISPENSER, TOILET PAPER DISPENSER AND GRAB BARS TO BE COMMERCIAL GRADE AND MEET ALL ADA CLEARANCE REQUIREMENTS. PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING NOA APPROVED FIBERGLASS DOORS AND FRAME. ALL ASSOCIATED HARDWARE TO BE NON-CORROSIVE MATERIAL INCLUDING ADA ACCESSIBLE THRESHOLD.
  - PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING ALUMINUM GRILL OVERHEAD DOOR INCLUDING TRACKS, COMPONENTS, ASSOCIATED FRAMING, FASTENERS, ETC. AS REQUIRED.
  - UNLESS OTHERWISE NOTED, ALL BATHROOM INTERIOR CMU WALLS ARE TILE AT 7'-4\"/>
  - COATING TO MEET VOC REQUIREMENTS OF 100GL MAX.
  - H.C. / ADA COMPLIANT HI-LO DRINKING FOUNTAIN WITH NO EXPOSED PLUMBING. PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING.
  - PHENOLIC RESTROOM PARTITION DOORS (3'-0\"/>
  - PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING CONTRACTOR TO COORDINATE WITH CITY AN ACCEPTABLE LOCATION FOR STAGING, EQUIPMENT AND LAY-DOWN AREA FOR ALL WORK.
  - REFER TO STRUCTURAL PLANS FOR ADDITIONAL DETAILS AND NOTES NOT SHOWN IN THIS PLAN.
  - EXPOSED PHG. NO CLG. / OPEN TO PTD. HIGH GLOSS SLAB ABOVE. PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING.
  - ALL LIGHTING PROVIDED BY PRE-ENGINEERED / PRE-MANUFACTURED BUILDING.
  - SHOP DRAWING FOR ALL PRE-ENGINEERED / PRE-MANUFACTURED COMPONENTS MUST BE SIGNED AND SEALED BY FLORIDA LICENSED ENGINEER

**DOOR SCHEDULE - BATHROOM**

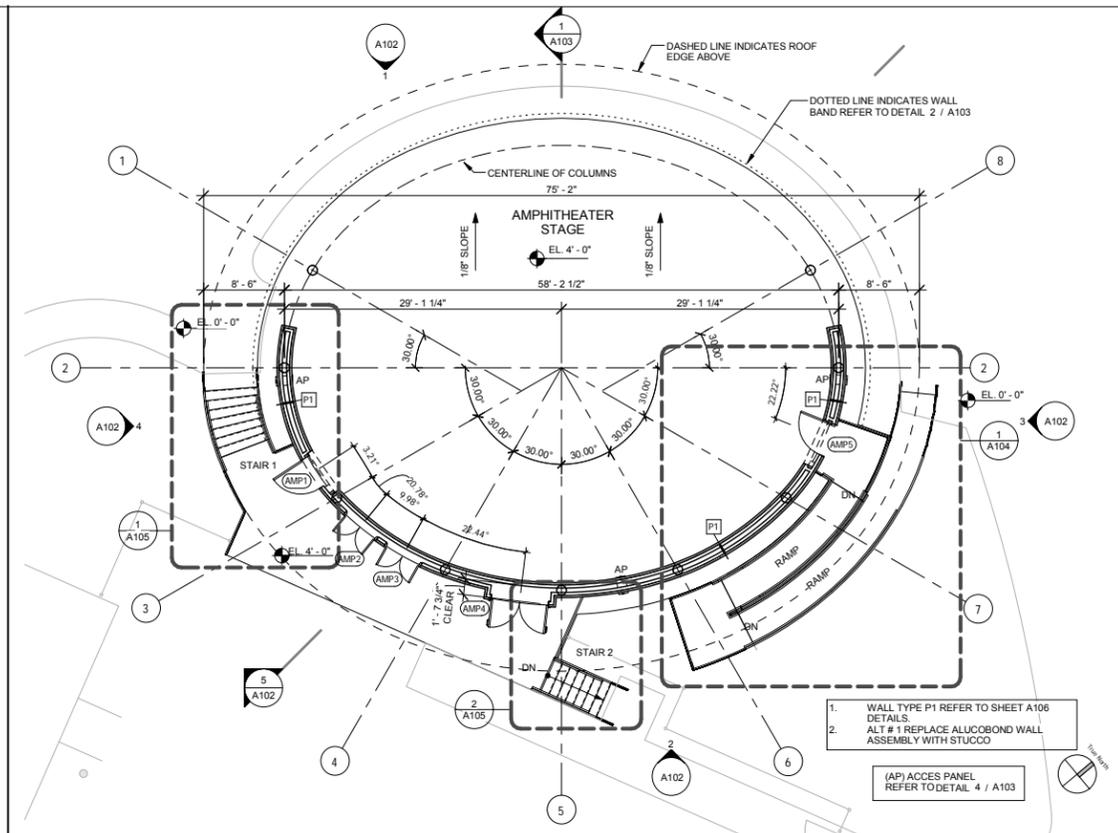
Tag	Door Size	Comments
PF30	36\"/>	
PF31	36\"/>	
PF32	36\"/>	
PF33	96\"/>	

**PLUMBING FIXTURE SCHEDULE**

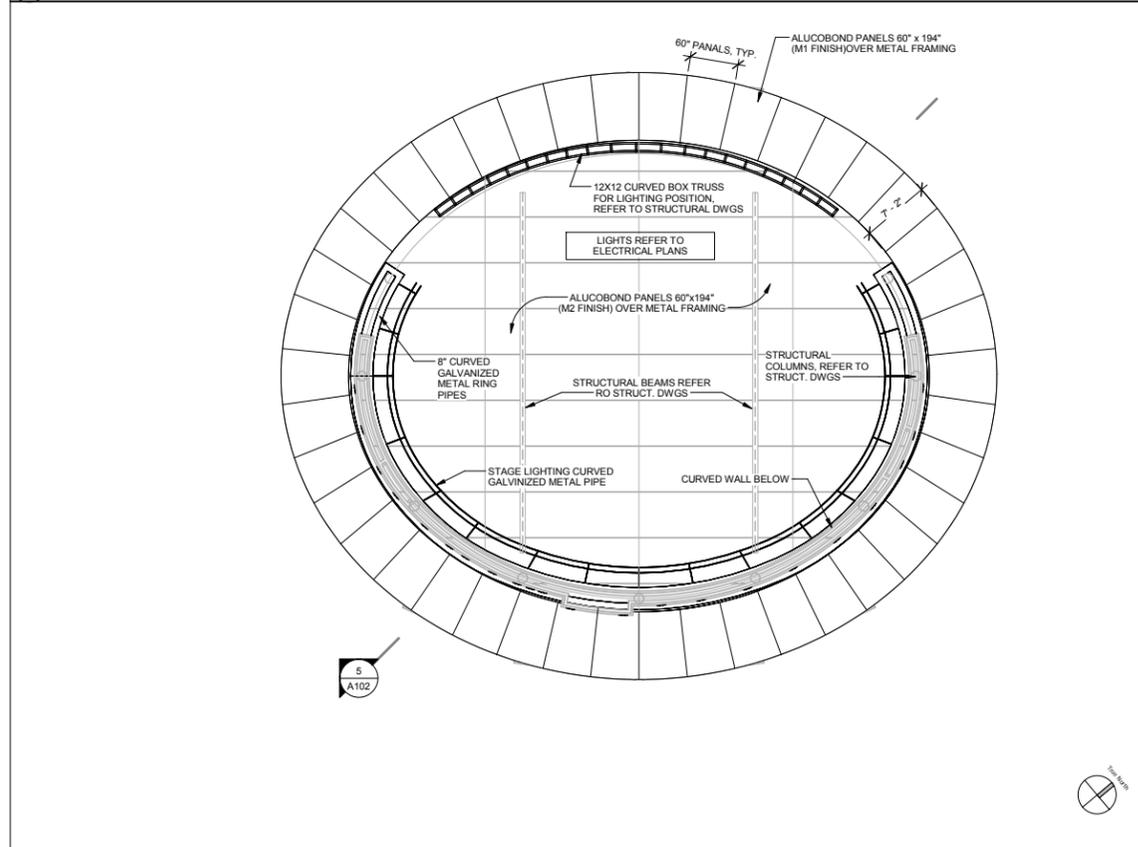
Mark	Description	Comments	Mfg Height
A	LAVATORY WALL MOUNTED	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	34\"/>
B	URINAL - WALL MOUNTED	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	17\"/>
C	TOILET WALL MOUNTED	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	18\"/>
D	DRINKING FOUNTAIN ADA	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	36\"/>
E	TROUGH SINK WALL MOUNTED	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	27\"/>
FD	FLOOR DRAIN	PRE-ENGINEERED / PRE-MANUFACTURED BUILDING	N/A



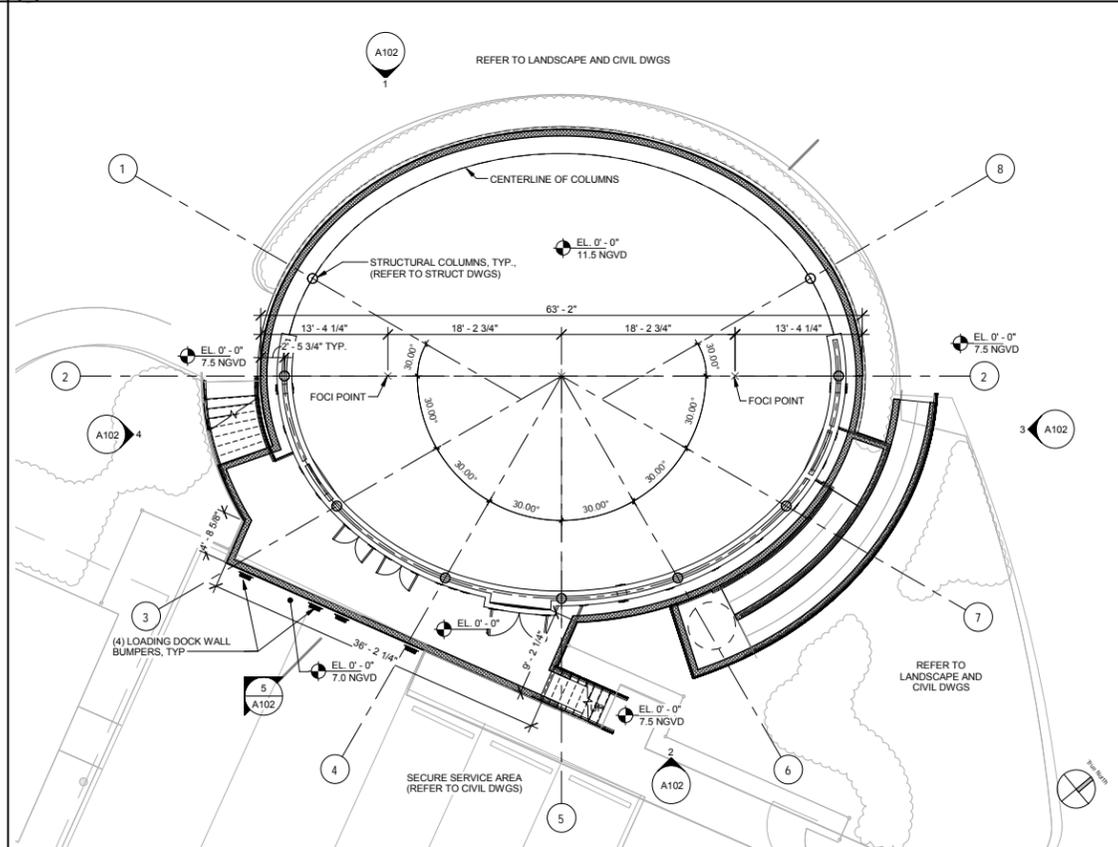
4. ROOF PLAN  
A101 1/8" = 1'-0"



2. FLOOR PLAN  
A101 1/8" = 1'-0"



3. RCP  
A101 1/8" = 1'-0"



1. FLOOR PLAN - GROUND LEVEL  
A101 1/8" = 1'-0"



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 SUB-CONSULTANT INFORMATION:

PROFESSIONAL SEAL:

SUBMITTAL DESCRIPTION / MILESTONE:

**BID SET**  
**October 21, 2016**

REVISIONS:


DRAWING SHEET INFORMATION  
 BA PROJECT NO.: 15086  
 SCALE: 1/8" = 1'-0"  
 DATE:

DRAWING TITLE:  
**AMPHITHEATER PLANS**

SHEET NO.  
**A101**



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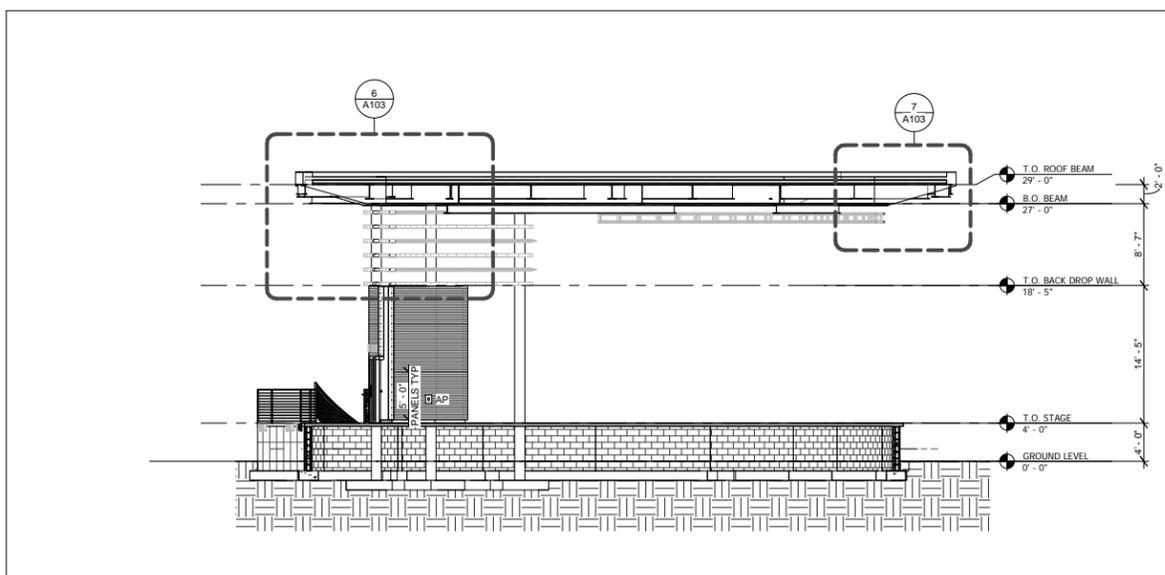
**BID SET**  
**October 21, 2016**

REVISIONS:

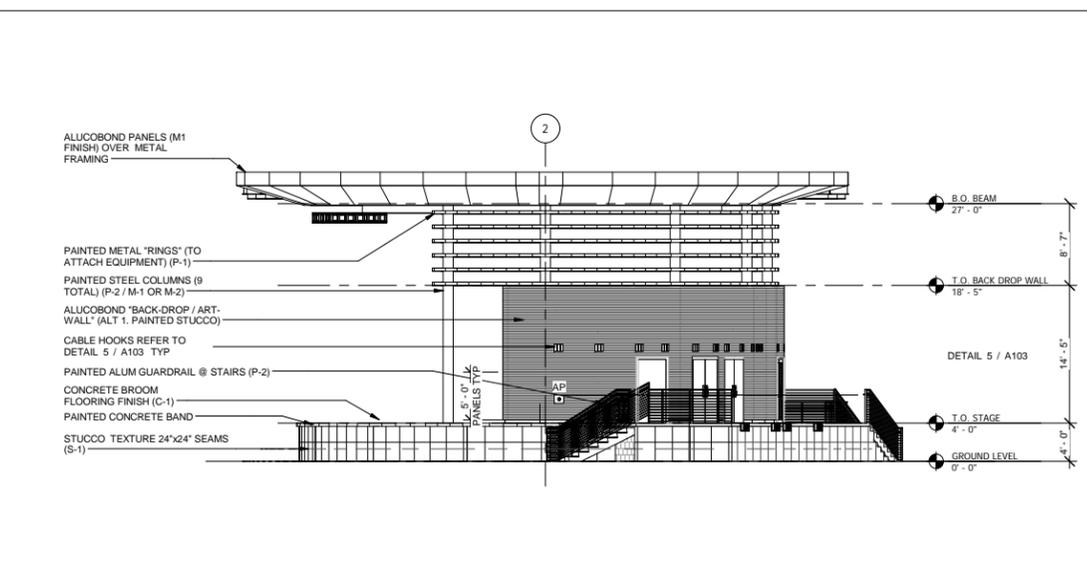
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BA PROJECT NO.: 15086  
SCALE: 1/8" = 1'-0"  
DATE:

DRAWING TITLE:  
**AMPHITHEATER ELEVATIONS AND SECTIONS**  
SHEET NO.

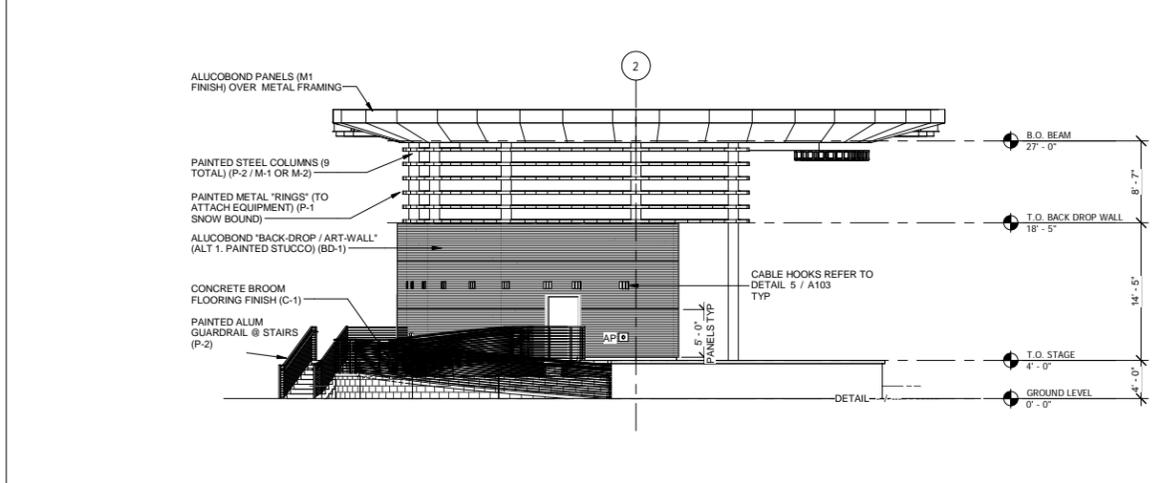
**A102**



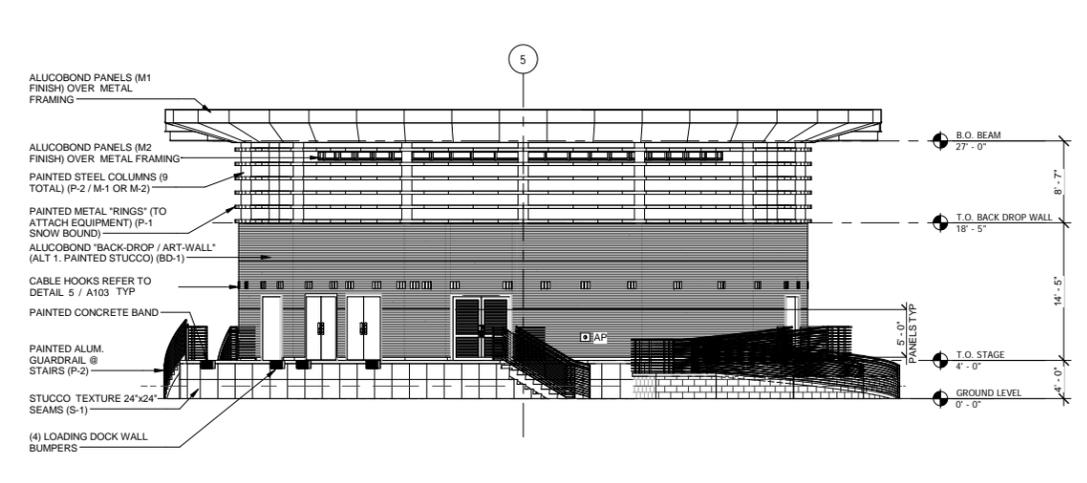
**5 BUILDING SECTION**  
A102 1/8" = 1'-0"



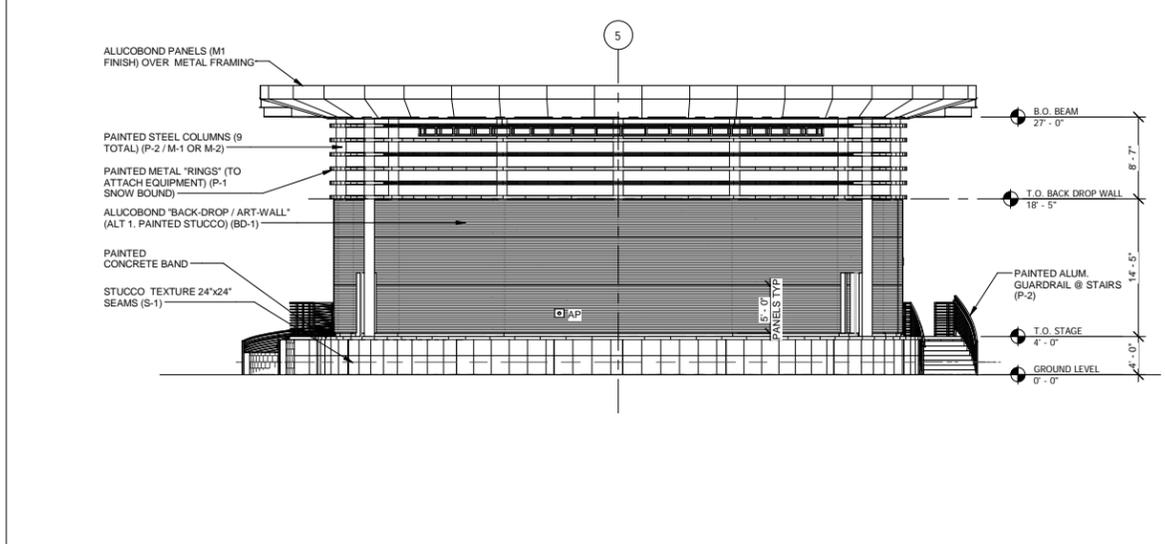
**4 BUILDING ELEVATION**  
A102 1/8" = 1'-0"



**3 BUILDING ELEVATION**  
A102 1/8" = 1'-0"



**2 BUILDING ELEVATION**  
A102 1/8" = 1'-0"



**1 BUILDING ELEVATION**  
A102 1/8" = 1'-0"

MATERIALS AND FINISHES				
MARK	FINISH	DESCRIPTION		
C-1	CONCRETE	BROOM FINISH		
M-1	METAL	ALUCOBOND BRILLIANT SLIVER METALLIC PVDF-3		
M-2	METAL	ALUCOBOND PLANTINUM MICA PVDF-2 / GLOSS 30		
P-1	PAINT	IVORY		
P-2	PAINT	SILVER GRAY		
S-1	STUCCO	SNOW BOUND		

DOOR SCHEDULE - AMPHITHEATER					
Door Number	Door Size	Finish		Fire Rating	Finish Comments
		Door	Frame		
AMP1	42' x 80'				STAGE SIDE ALLUCOBOND FINISH
AMP2	48' x 80'				NEMA 3R SPLASH AND RAIN PROTECTION
AMP3	48' x 80'				NEMA 3R SPLASH AND RAIN PROTECTION
AMP4	Louvered Door 6' x 6-8				LOUVERED
AMP5	42' x 80'				STAGE SIDE ALLUCOBOND FINISH

NOTE:  
ALL EXTERIOR / CLADDING COMPONENTS AS PART OF THE AMPHITHEATER / STAGE SHALL HAVE PRODUCTS APPROVAL / NOA'S APPLICABLE TO CURRENT FLORIDA BUILDING CODE 2014 5TH EDITION FOR IMPACT RESISTANT / WIND LOADS.

ALTERNATE #1  
ALL METAL WALLS ARE TO BE REPLACED WITH PLASTER REFER TO DETAL 3 / A106



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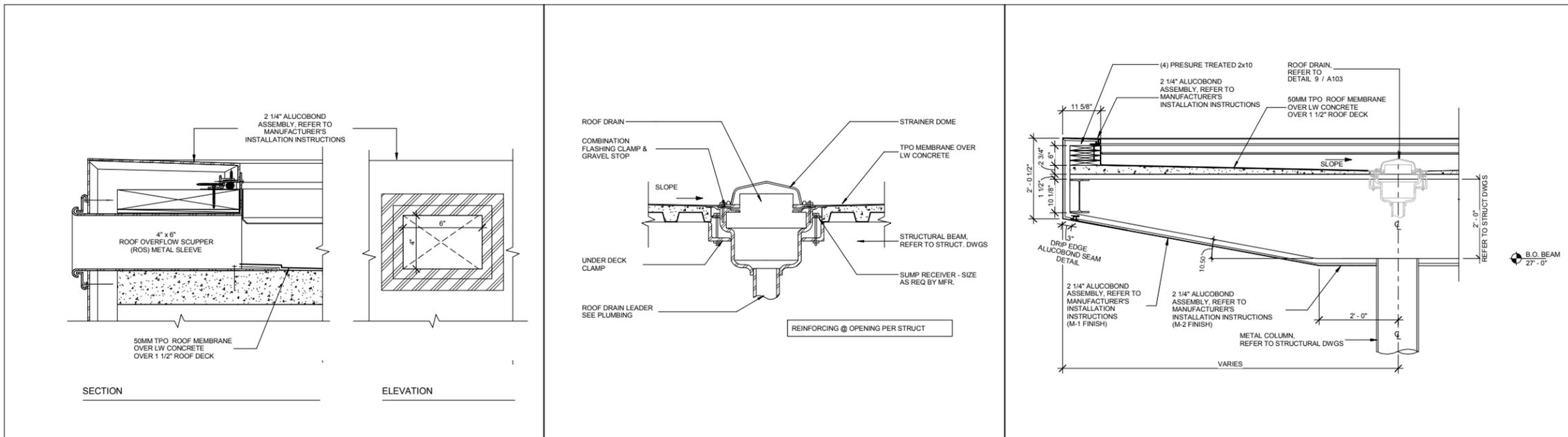
**BID SET**  
October 21, 2016

REVISIONS:

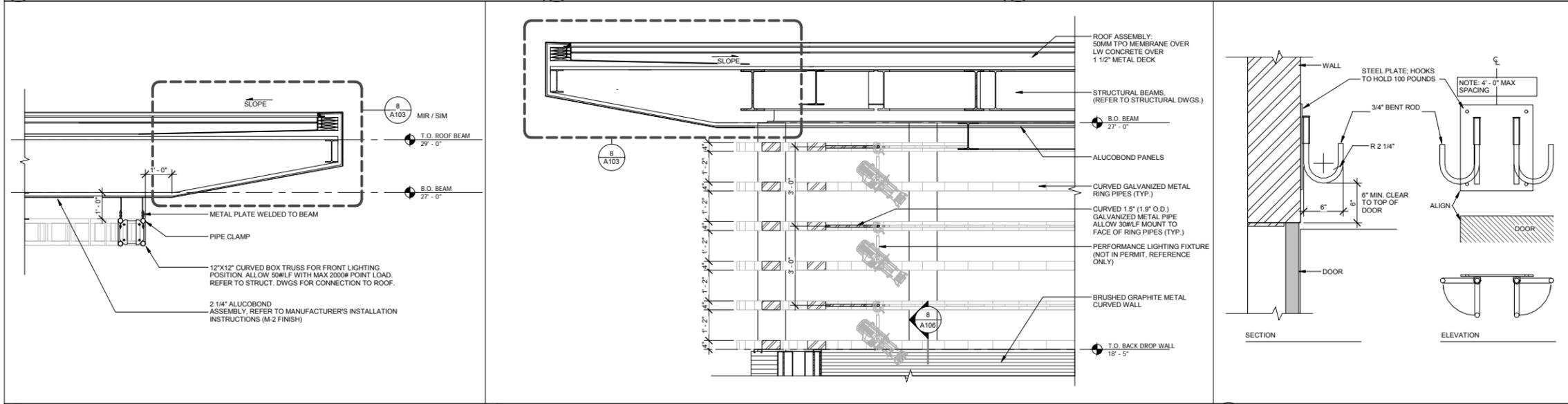

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BA PROJECT NO.: 15086  
SCALE: As indicated  
DATE:

DRAWING TITLE:  
**AMPHITHEATER DETAILS**  
SHEET NO.

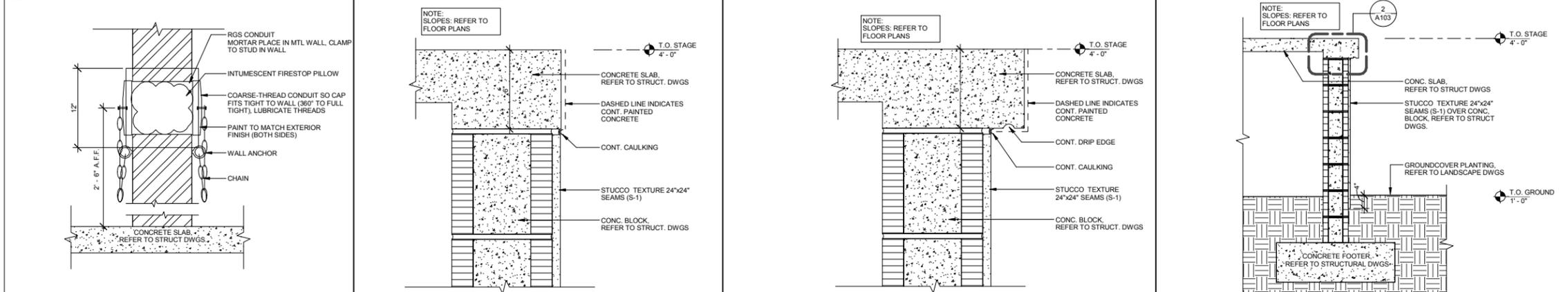
**A103**



10 DETAIL - ROOF OVERFLOW SCUPPER (ROS) 3" = 1'-0"  
9 ROOF DRAIN AND BACKUP 1 1/2" = 1'-0"  
8 DETAIL - ROOF CURB 3/4" = 1'-0"



7 DETAIL ROOF 2 1/2" = 1'-0"  
6 DETAIL - ROOF 1/2" = 1'-0"  
5 DETAIL - CABLE HOOKS 1 1/2" = 1'-0"



4 DETAIL - HORIZONTAL CABLE PASS DOUBLE CAP (AP) 1 1/2" = 1'-0"  
3 DETAIL - WALL BACK OF HOUSE 3" = 1'-0"  
2 DETAIL - WALL BAND @ STAGE 3" = 1'-0"  
1 DETAIL - WALL 3/4" = 1'-0"



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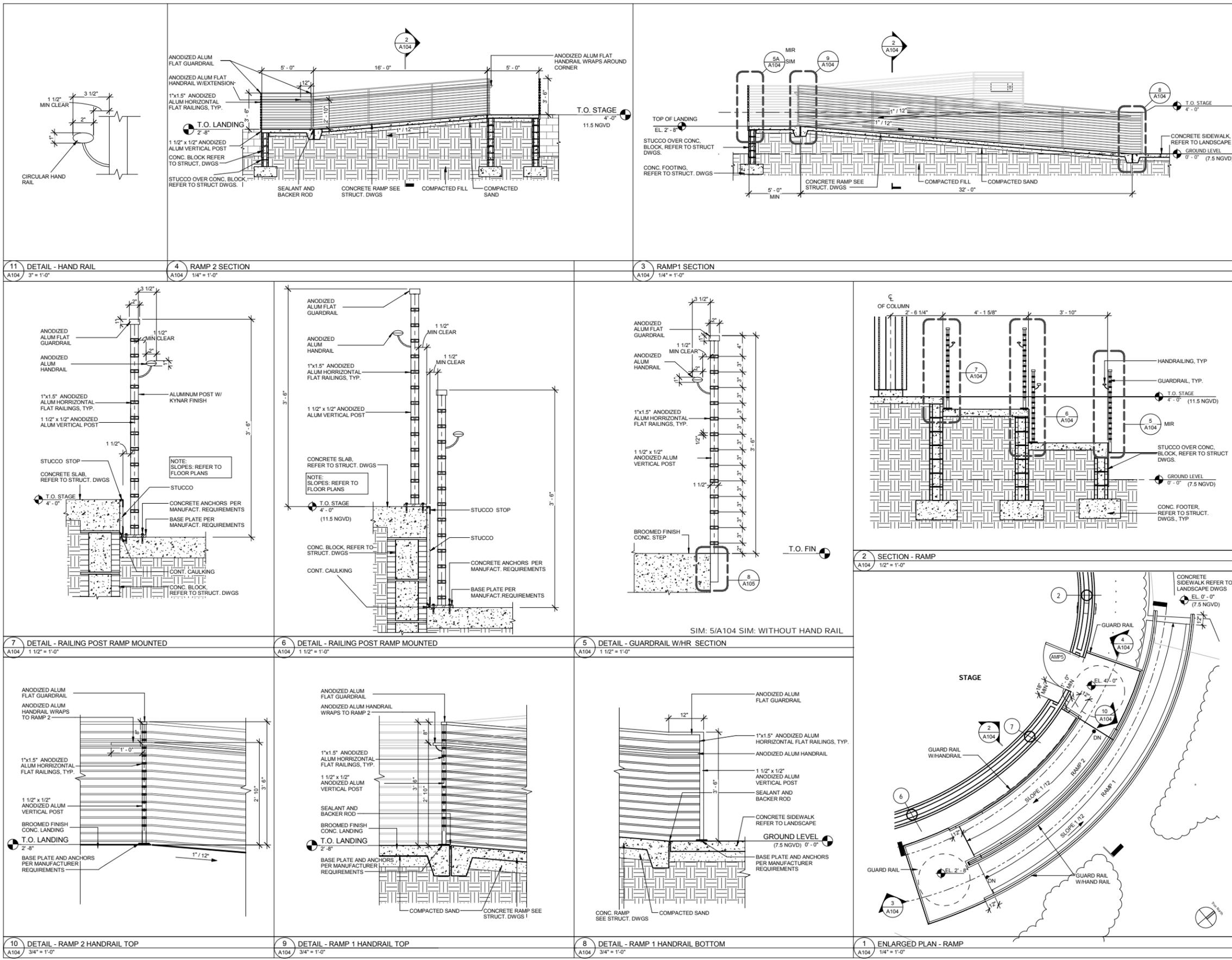

DRAWING SHEET INFORMATION  
BA PROJECT NO.: 15086  
SCALE: As indicated  
DATE:

DRAWING TITLE:  
**AMPHITHEATER RAMP**

SHEET NO.

**A104**

10/26/2016 4:20:09 PM





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SUBMITTAL DESCRIPTION / MILESTONE:

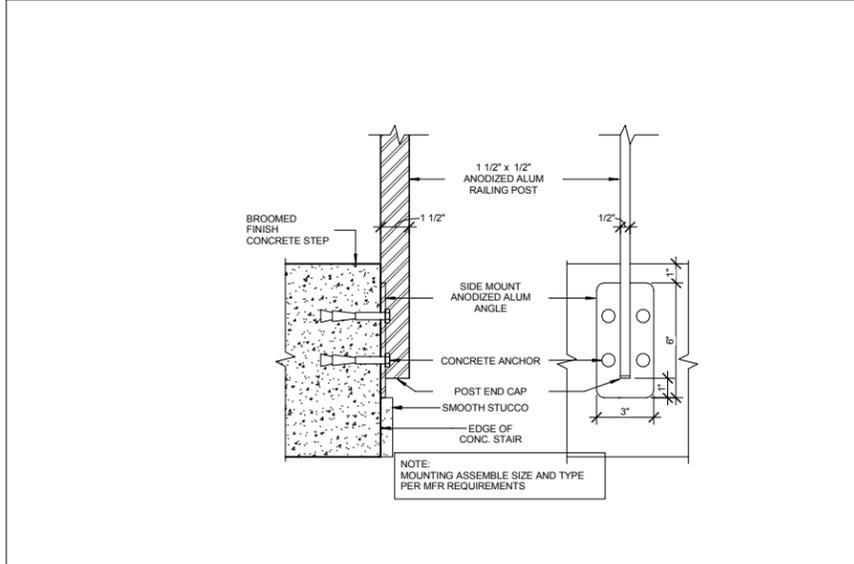
**BID SET**  
**October 21, 2016**

REVISIONS:

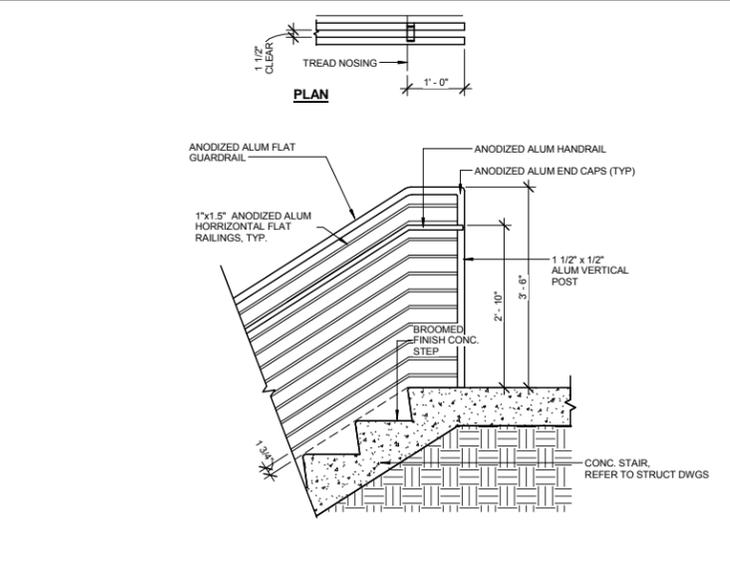

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 BA PROJECT NO.: 15086  
 SCALE: As indicated  
 DATE:

DRAWING TITLE:  
**AMPHITHEATER STEPS**  
 SHEET NO.

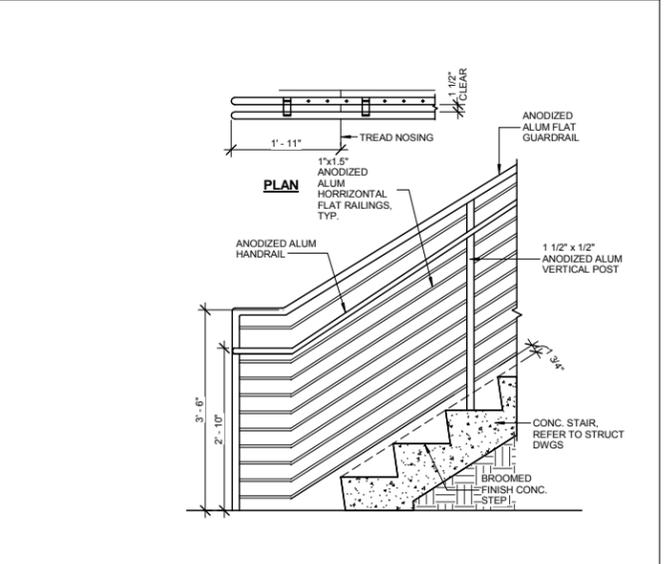
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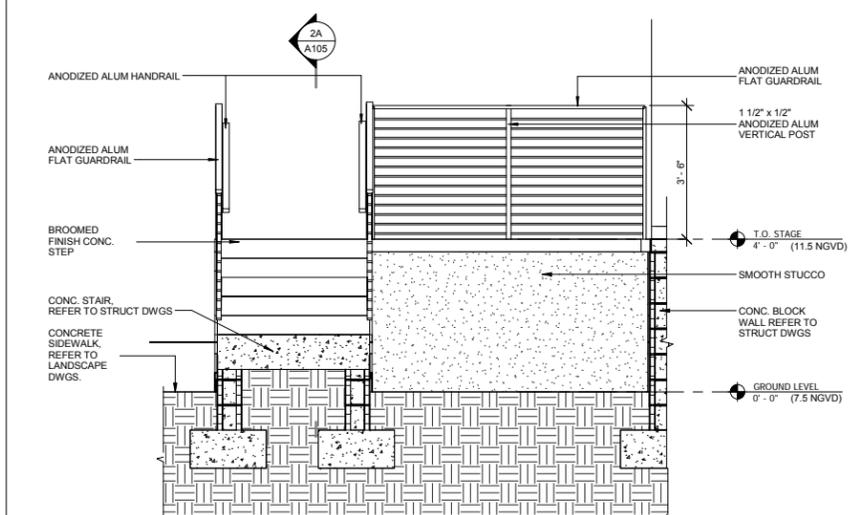
**8** DETAIL - GUARDRAIL POST SIDE MOUNT  
 A105 3" = 1'-0"



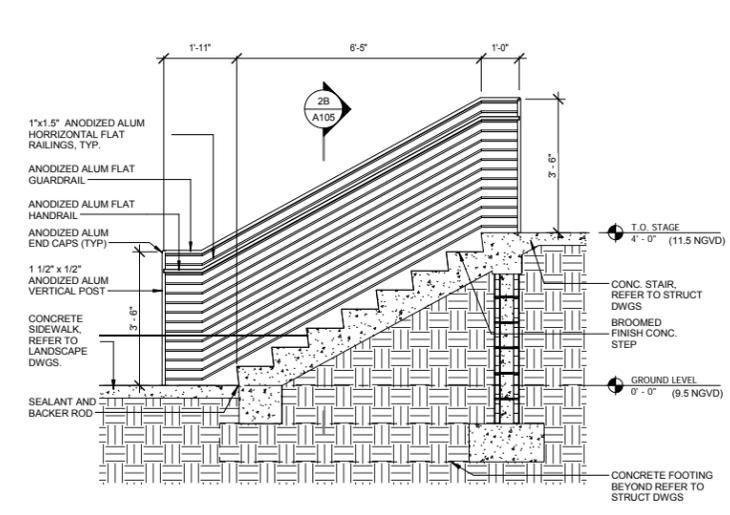
**7** STAIR LANDING GUARDRAIL DETAIL  
 A105 3/4" = 1'-0"



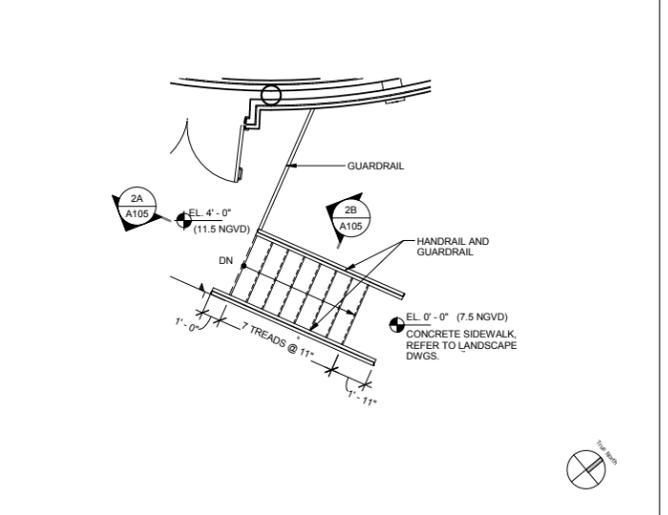
**6** STAIR LANDING GUARDRAIL DETAIL  
 A105 3/4" = 1'-0"



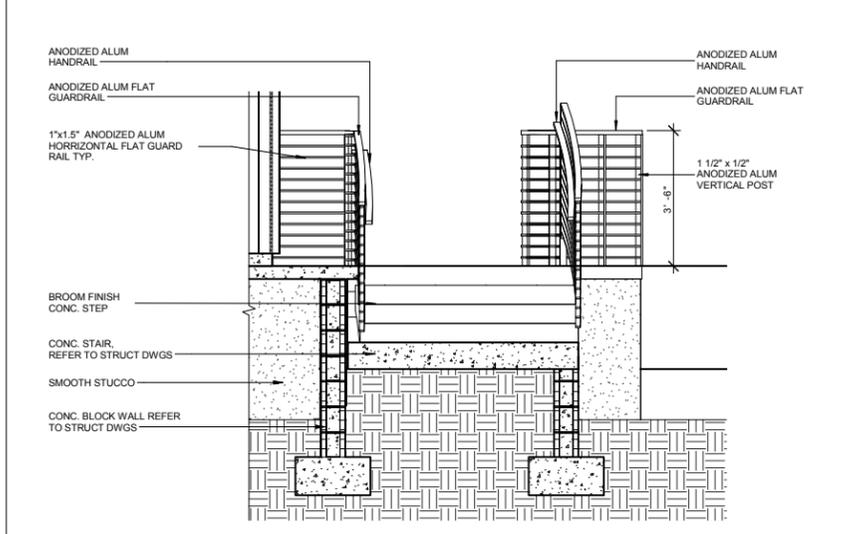
**2B** SECTION - STAIR #2  
 A105 1/2" = 1'-0"



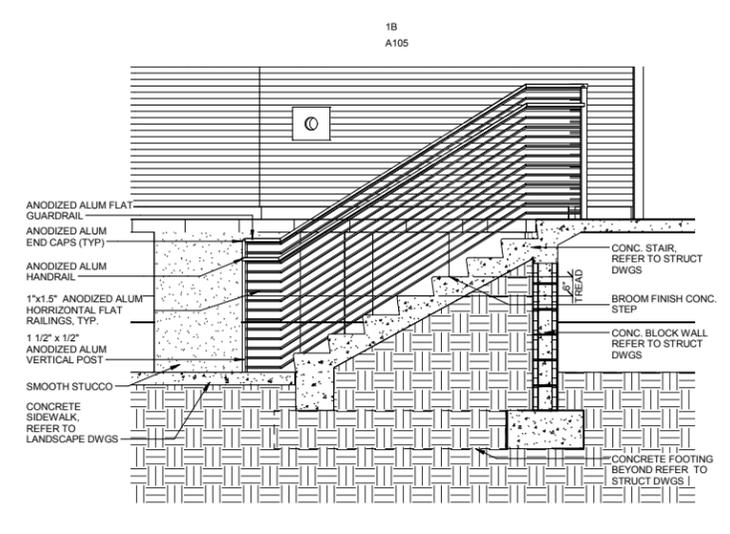
**2A** SECTION - STAIR #2  
 A105 1/2" = 1'-0"



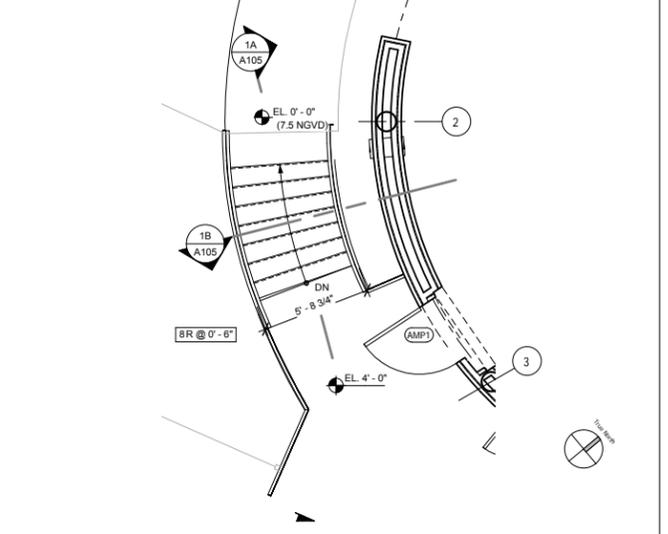
**2** ENLARGED PLAN - STAIR #2  
 A105 1/4" = 1'-0"



**1B** SECTION - RAMP STAIR #1A  
 A105 1/2" = 1'-0"



**1A** Detail STAIR #1  
 A105 1/2" = 1'-0"



**1** ENLARGED PLAN - STAIR #1  
 A105 1/4" = 1'-0"



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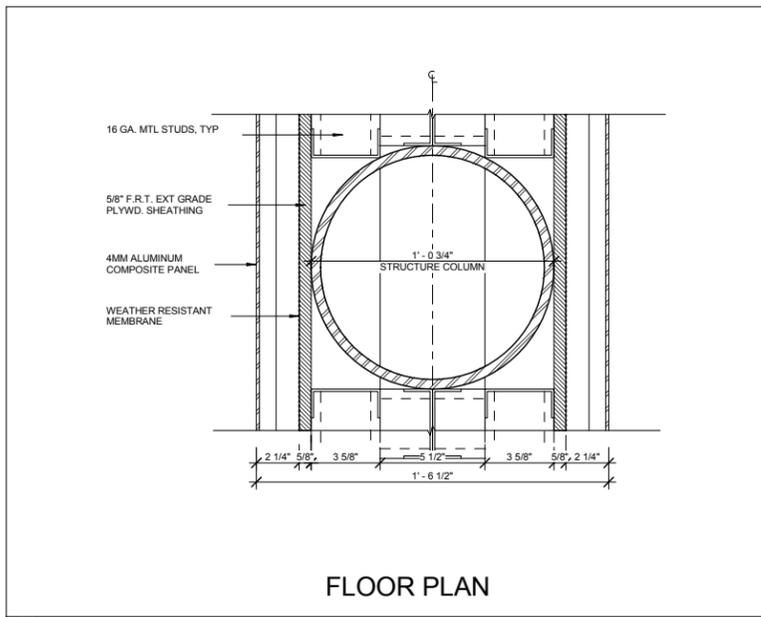
DRAWING TITLE:

**AMPHITHEATER WALL DETAILS**

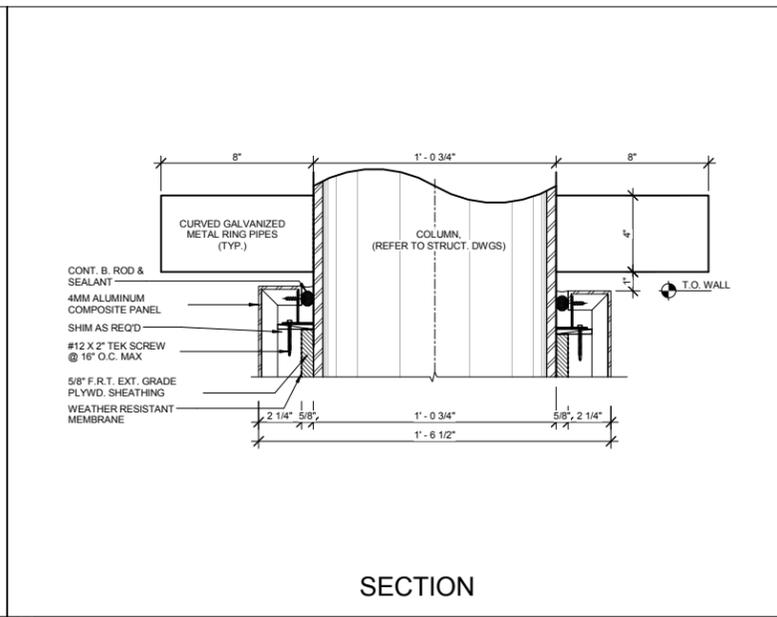
SHEET NO.

**A106**

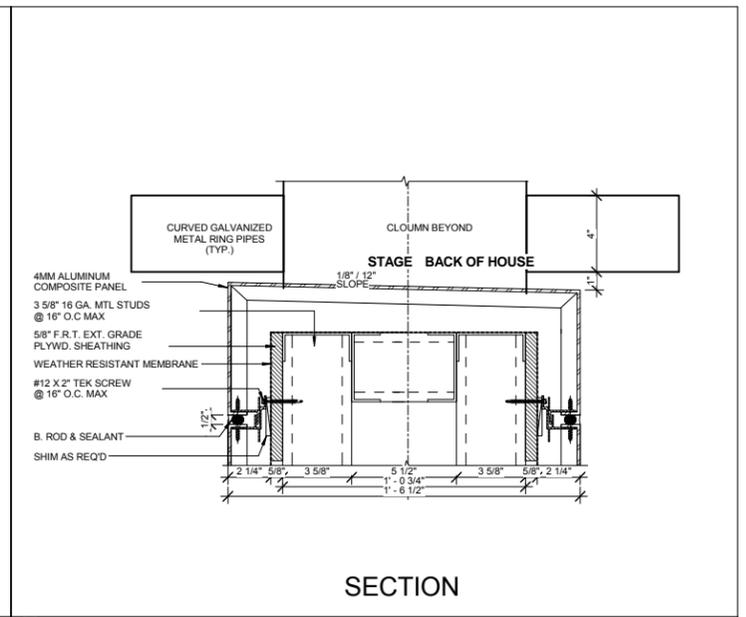
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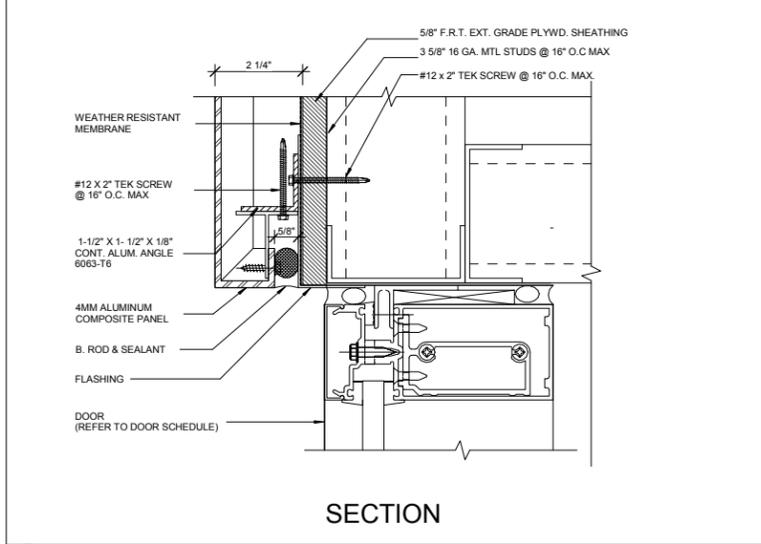
9 DETAIL PLAN SECTION - COLUMN W/ALUCOBOND  
A106 3\"/>



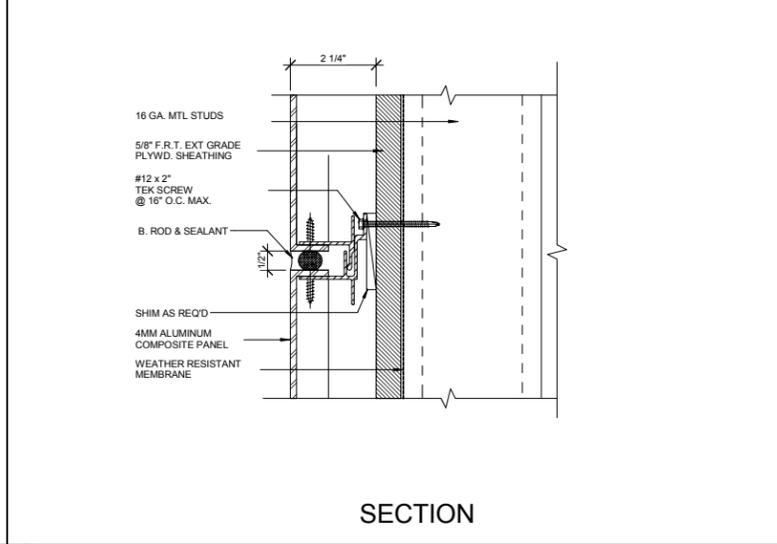
8 DETAIL SECTION - WALL CAP COLUMN W/ALUCOBOND  
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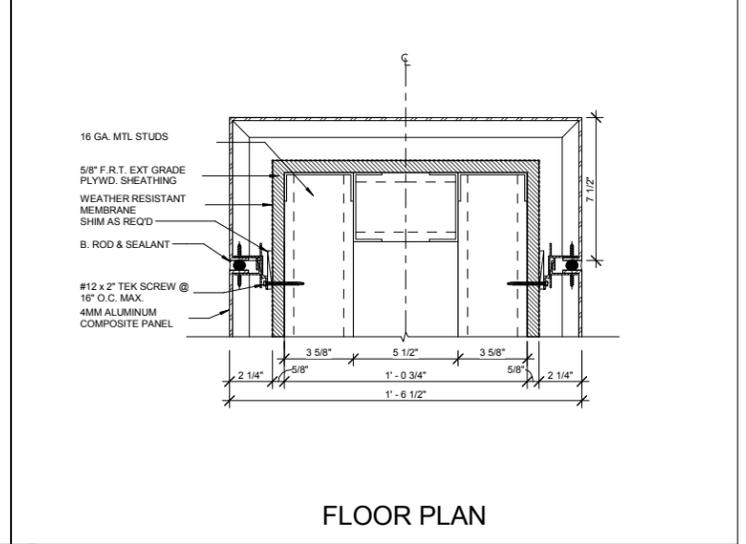
7 DETAIL SECTION - WALL CAP W/ALUCOBOND  
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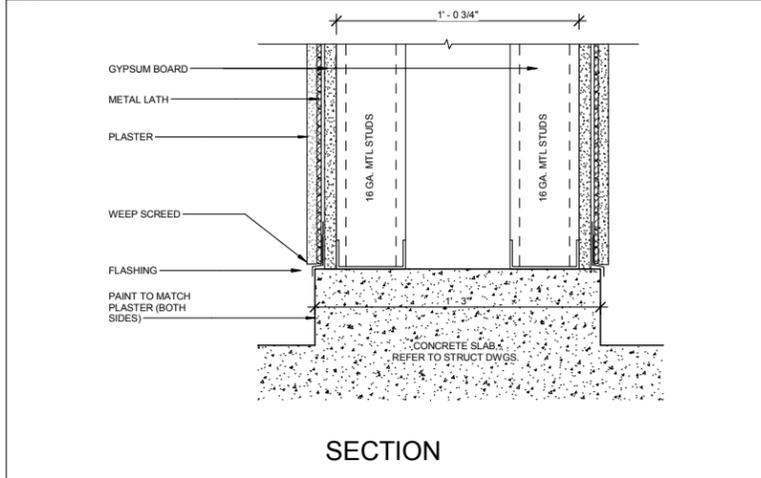
6 DETAIL SECTION - DOOR HEADER W/ALUCOBOND  
A106 6\"/>



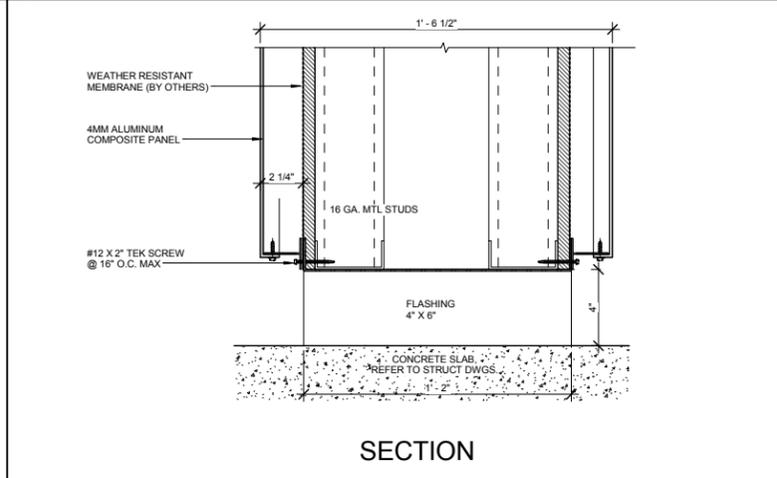
5 DETAIL SECTION - WALL HORIZONTAL JOINT W/ALUCOBOND  
A106 6\"/>



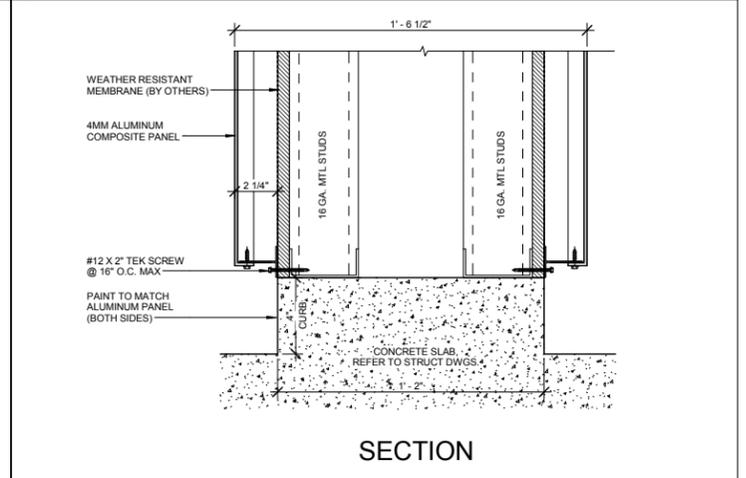
4 DETAIL FLOOR PLAN - END W/ALUCOBOND  
A106 3\"/>



3 DETAIL SECTION - WALL BASE W/PLASTER "BID ALTERNATE"  
A106 3\"/>



2 DETAIL SECTION - WALL BASE WITH SCUPPER W/ALUCOBOND  
A106 3\"/>



1 DETAIL SECTION - WALL BASE  
A106 3\"/>





**BERMEJO AJAMIL & PARTNERS, INC**

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayshore Drive  
Suite 1000  
Miami, Florida 33133  
(305) 859-2050  
Fax (305) 860-3700

PREPARED FOR/OWNER:  
**CITY OF KEY WEST, FL**  
P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



PROJECT NAME:  
**TRUMAN WATERFRONT PARK AMPHITHEATER**  
PROJECT LOCATION/ADDRESS:  
**TRUMAN WATERFRONT PARK**

SUB-CONSULTANT INFORMATION:  
**DDA ENGINEERS, P.A.**  
Consulting Engineers  
4930 S.W. 74th Court  
Miami, Florida, 33155  
Phone: 305.666.0711  
State of Florida - Authorization No.1306  
website: www.ddaeng.com

PROFESSIONAL SEAL:

PEDRO J. DUQUESNE P.E. #22764

SUBMITTAL DESCRIPTION / MILESTONE:

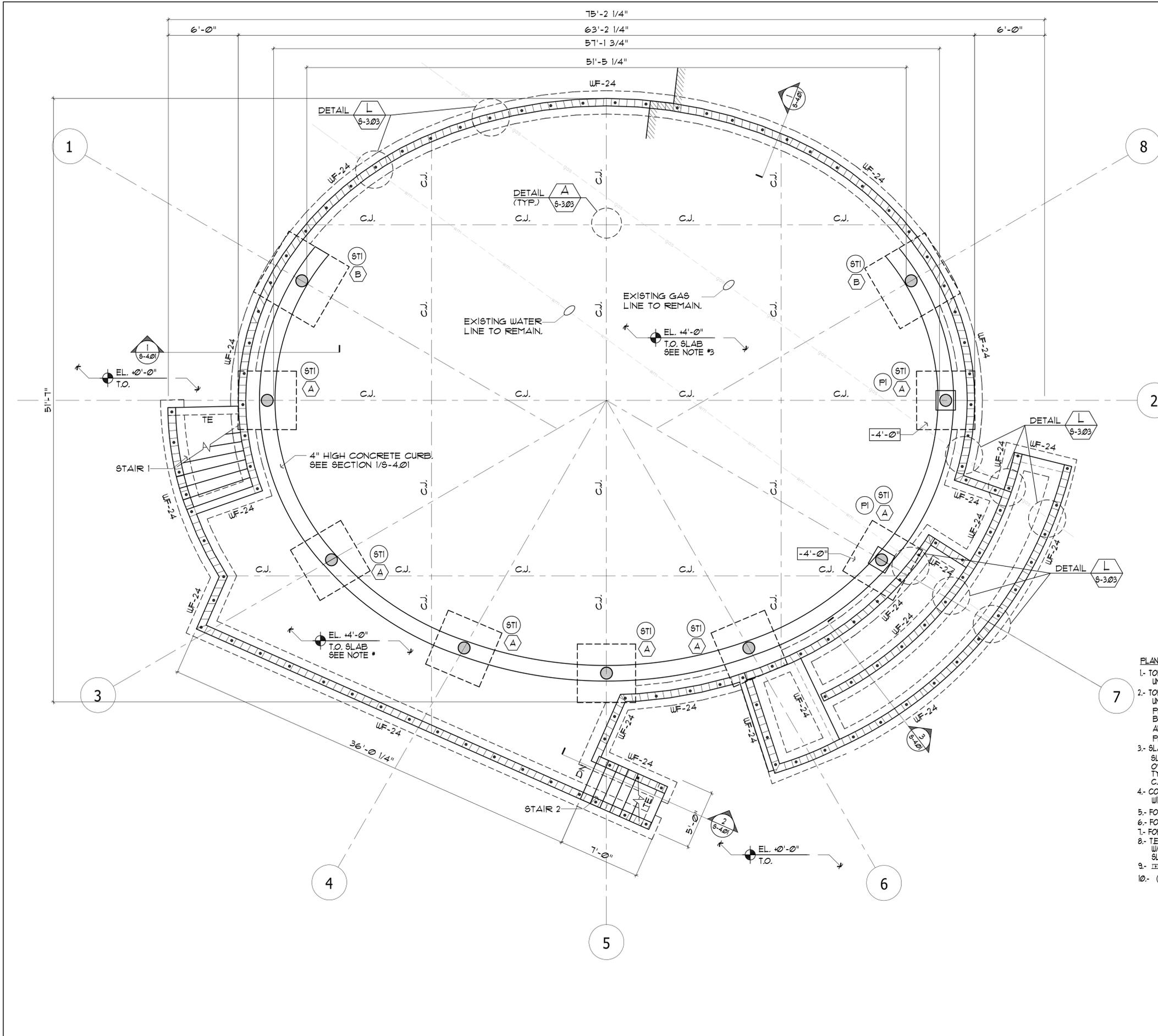
**BIT SET**  
October 21, 2016

REVISIONS:


DRAWING SHEET INFORMATION  
BA PROJECT NO.: 15086  
SCALE:  
DATE:

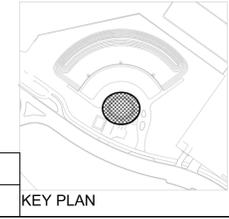
DRAWING TITLE:  
**AMPHITHEATER / STAGE FOUNDATION PLAN**

SHEET NO.  
**S-1.01**



- PLAN NOTES: GROUND FLOOR**
- 1- TOP OF SLAB ELEVATION = +4'-0" UNLESS OTHERWISE NOTED AS THIS EL.
  - 2- TOP OF FOOTING ELEVATION = -2'-0" UNLESS OTHERWISE NOTED AS THIS EL.
  - 3- SLAB NOTE:  
SLAB NOTE: 4" CONCRETE SLAB ON 10 MIL VAPOR BARRIER OVER COMPACTED FILL, REINFORCED W/ 6x6- W1.4 x W1.4 W.W.F. TYPICAL.  
C.J. DENOTES CONTROL JOINT, SEE DETAIL A/6-3.03.
  - 4- COORDINATE ALL SLAB OPENINGS AND DEPRESSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - 5- FOR GENERAL STRUCTURAL NOTES, SEE SHEET 6-3.01
  - 6- FOR COLUMN SCHEDULE, SEE SHEET 6-3.02
  - 7- FOR BLOCK WALL SCHEDULE SEE SHEET 6-3.02
  - 8- T.E. DENOTES 16"x8" DEEP THICKENED SLAB EDGE REINF. W/ (#4) TOP AND BOTTOM, TYP. AT ALL DISCONTINUOUS SLAB EDGES.
  - 9- [Symbol] DENOTES 8" CMU WALL TYPE BW-532
  - 10- (P) DENOTES CONCRETE PEDESTAL, SEE B/6-3.02.

**1 AMPHITHEATER / STAGE - FOUNDATION & GROUND FLOOR PLAN**  
S-1.01 SCALE: 1/4" = 1'-0"





**BERMELLO AJAMIL & PARTNERS INC**

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayshore Drive  
Suite 1000  
Miami, Florida 33133  
(305) 859-2050  
Fax (305) 860-3700

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PROJECT NAME:

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PROJECT LOCATION/ADDRESS:  
**TRUMAN WATERFRONT PARK**

SUB-CONSULTANT INFORMATION:



Consulting Engineers  
4930 S.W. 74th Court  
Miami, Florida 33155  
Phone: 305.666.0711  
State of Florida - Authorization No.1306  
website: www.ddaeng.com

PROFESSIONAL SEAL:

PEDRO J. DUQUESNE P.E. #22764

SUBMITTAL DESCRIPTION / MILESTONE:

**BIT SET**  
October 21, 2016

REVISIONS:

DRAWING SHEET INFORMATION

BA PROJECT NO.: 15086

SCALE:

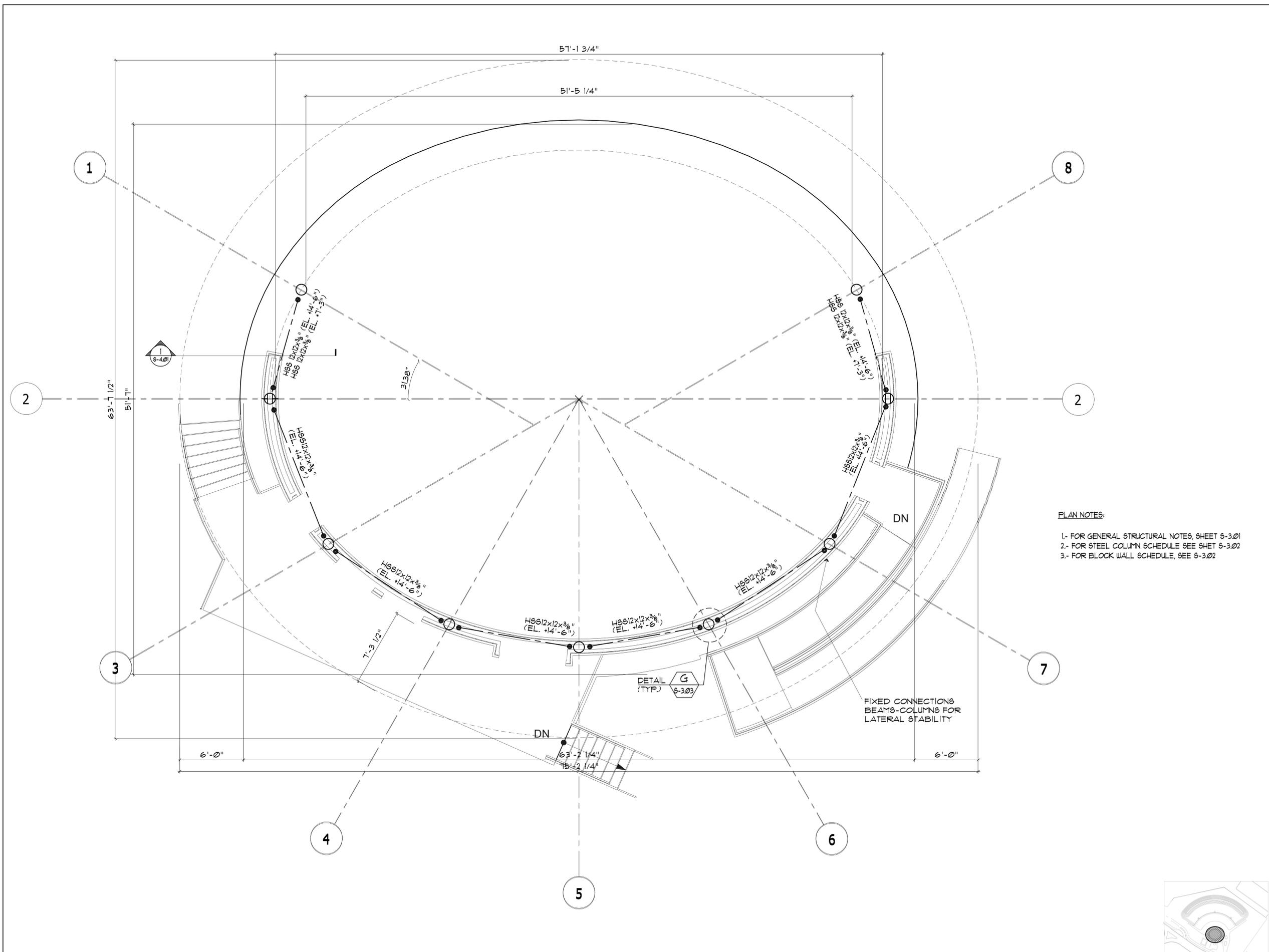
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DRAWING TITLE:

AMPHITHEATER / STAGE  
INTERM. FLOOR PLAN

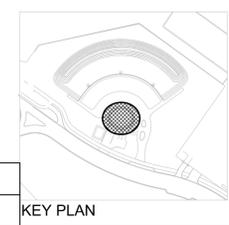
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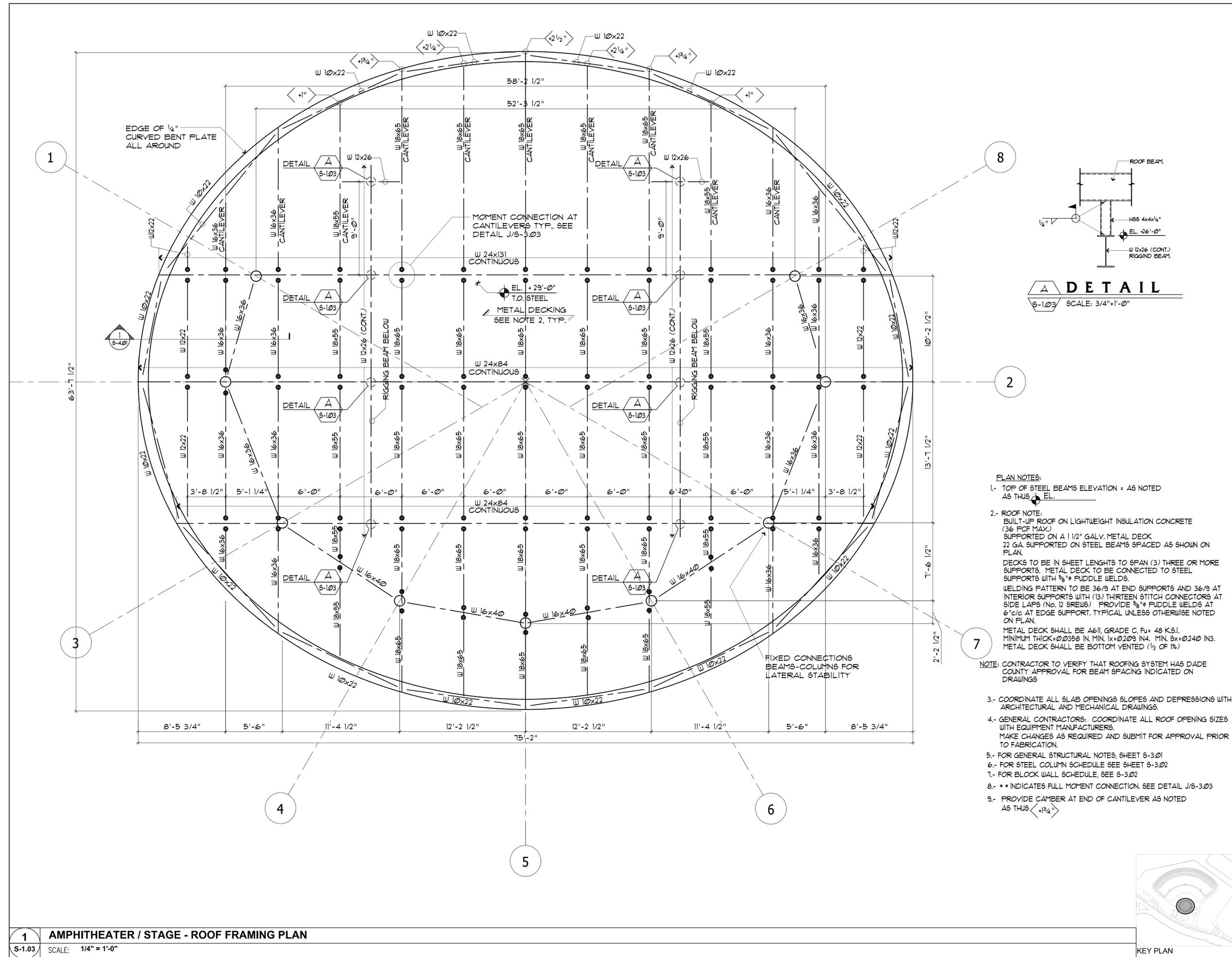
**S-1.02**



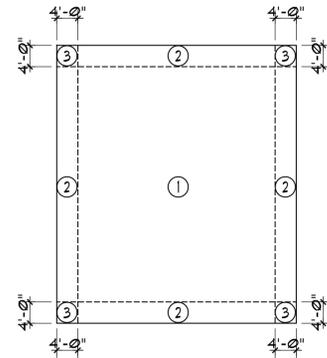
**PLAN NOTES:**  
1.- FOR GENERAL STRUCTURAL NOTES, SHEET S-3.01  
2.- FOR STEEL COLUMN SCHEDULE SEE SHET S-3.02  
3.- FOR BLOCK WALL SCHEDULE, SEE S-3.02

**1 AMPHITHEATER / STAGE - INTERM. FLOOR PLAN**  
S-1.01 SCALE: 1/4" = 1'-0"





**1** AMPHITHEATER / STAGE - ROOF FRAMING PLAN  
S-1.03 SCALE: 1/4" = 1'-0"



NOTE: VALUES INDICATED ARE NET UPLIFT.

WIND DESIGN CRITERIA  
 V = 100 MPH  
 EXPOSURE D  
 Kd = 0.85  
 ht = 32 ft.  
 PARTIALLY ENCLOSED BUILDING

ZONE	WIND LOAD PRESSURES FOR ROOFING DESIGN
①	-44 P.S.F.
②	-79 P.S.F.
③	-122 P.S.F.

AREA	ZONE ④		ZONE ⑤	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
10 ft. <sup>2</sup> to 25 ft. <sup>2</sup>	48 P.S.F.	51 P.S.F.	48 P.S.F.	63 P.S.F.
26 ft. <sup>2</sup> to 50 ft. <sup>2</sup>	45 P.S.F.	49 P.S.F.	45 P.S.F.	58 P.S.F.
51 ft. <sup>2</sup> to 100 ft. <sup>2</sup>	43 P.S.F.	47 P.S.F.	43 P.S.F.	54 P.S.F.
101 ft. <sup>2</sup> to 150 ft. <sup>2</sup>	41 P.S.F.	44 P.S.F.	41 P.S.F.	49 P.S.F.
151 ft. <sup>2</sup> AND UP	39 P.S.F.	43 P.S.F.	39 P.S.F.	47 P.S.F.

NOTES:  
 1.- ZONE ⑤ IS DEFINED AS ANY DOOR OR WINDOW WITHIN 4'-0" FROM ANY CORNER OF THE BUILDING. ALL OTHER LOCATIONS ARE DEFINED AS ZONE ④  
 2.- VALUES INDICATED CAN BE INTERPOLATED.

PRECAST CONCRETE FLOOR BY CXT

L6x6x1/2x0'-8" GALV. W/ (2)-1/2" EXP. BOLTS 3" OF EMBEDMENT TO SLAB AND TO PRECAST STRUCTURE (3 EACH SIDE)

CONCRETE SLAB ON GRADE, SEE PLAN.

NOTE: VERIFY LOCATION OF PT CABLES IN THE PRECAST STRUCTURE TO AVOID WITH THE EXPANSION BOLTS.

**DETAIL**  
 S-2.01 SCALE: 1" = 1'-0"

OVERHANG L3x3x1/4 GALV. FRAME @ 3'-0" O.C. ANGLES TO BE WELDED ALL AROUND AT EACH END, USE 3/8" FILLET WELD.

ALUCOBOND COVER PROVIDE ISOLATION BETWEEN STEEL AND ALUMINUM MATERIALS.

STEEL TUBE BY CXT.

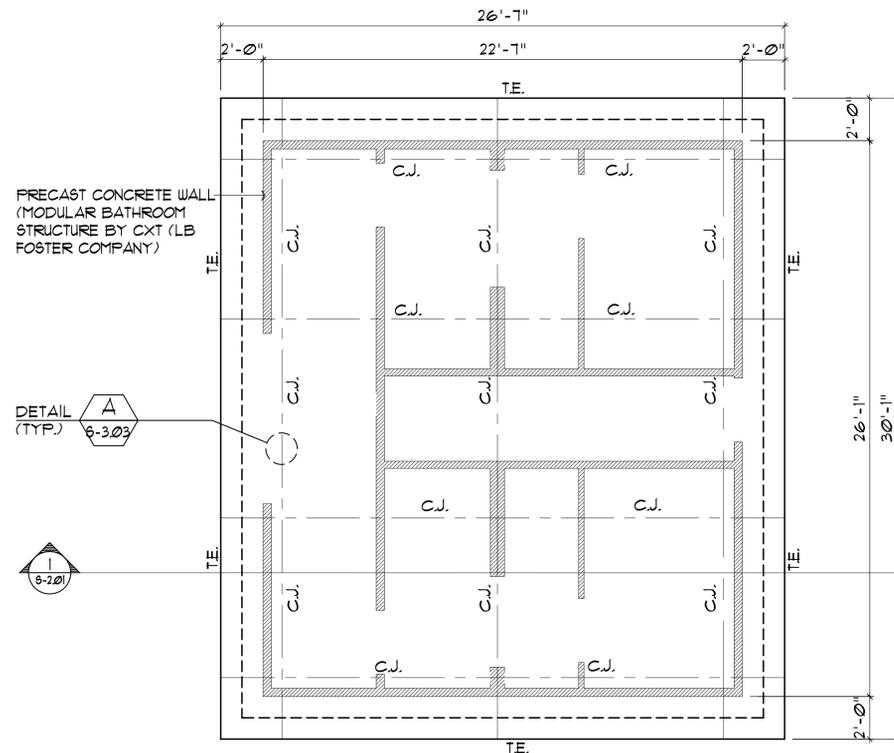
PRECAST CONCRETE WALL (MODULAR BATHROOM STRUCTURE BY CXT (LB FOSTER COMPANY))

CONCRETE POUR ALL AROUND. SIDEWALK, SEE CIVIL DRAWINGS

CONCRETE FOOTING, SEE PLAN.

NOTE: VERIFY LOCATION OF PT CABLES IN THE PRECAST STRUCTURE TO AVOID WITH THE EXPANSION BOLTS.

**SECTION**  
 S-2.01 SCALE: 1/2" = 1'-0"



DETAIL (TYP.) S-3.03

S-2.01

PLAN NOTES: GROUND FLOOR

1.- TOP OF SLAB ELEVATION = 0'-0" UNLESS OTHERWISE NOTED AS THIS  $\phi$  EL.

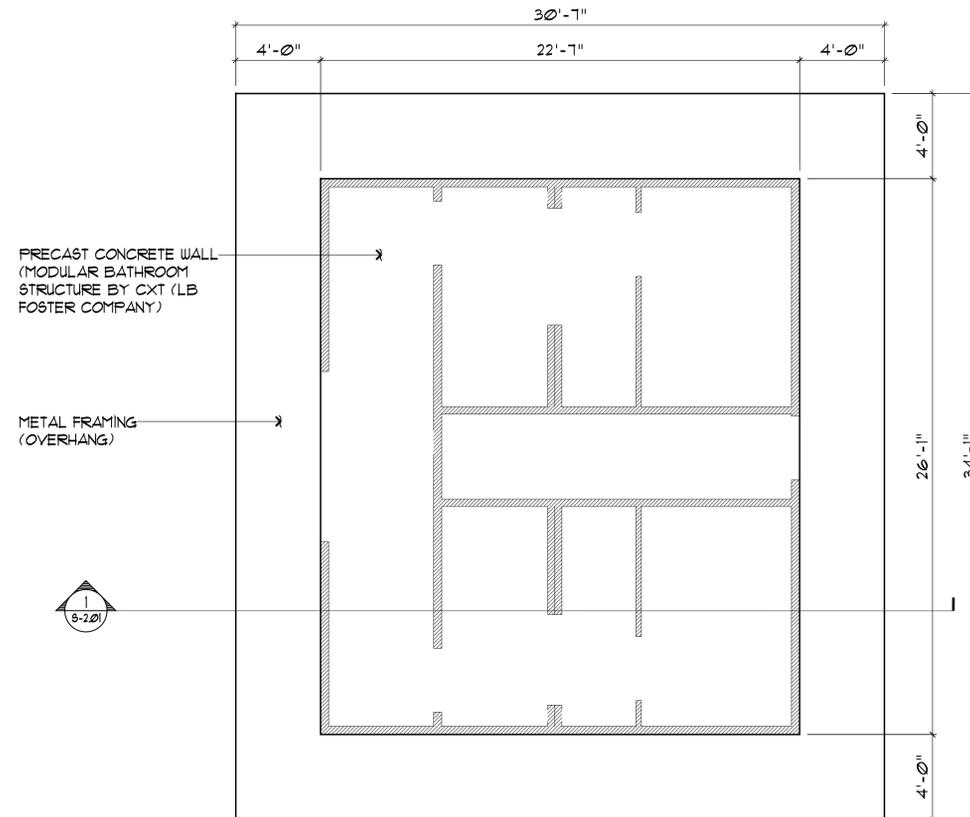
2.- SLAB NOTE:  
 SLAB NOTE: 6" CONCRETE SLAB ON 10 MIL VAPOR BARRIER OVER COMPACTED FILL, REINFORCED W/ 6x6 - W2.1 x W2.1 WWF. TYPICAL.  
 C.J. DENOTES CONTROL JOINT, SEE DETAIL A/S-3.03.

3.- COORDINATE ALL SLAB OPENINGS AND DEPRESSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

4.- FOR GENERAL STRUCTURAL NOTES, SEE SHEET S-3.01

5.- FOR COLUMN SCHEDULE, SEE SHEET S-3.02

6.- T.E. DENOTES 16"x8" DEEP THICKENED SLAB EDGE REINF. W/ (1) #4 TOP AND BOTTOM, TYP. AT ALL DISCONTINUOUS SLAB EDGES.



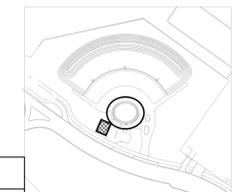
PRECAST CONCRETE WALL (MODULAR BATHROOM STRUCTURE BY CXT (LB FOSTER COMPANY))

METAL FRAMING (OVERHANG)

S-2.01

**BATHROOM - METAL OVERHANG FRAMING PLAN**

S-2.01 SCALE: 1/4" = 1'-0"



KEY PLAN



**BERMELLO AJAMIL & PARTNERS INC.**

Architecture • Engineering • Planning  
 Interior Design • Landscape Architecture  
 2601 South Bayshore Drive  
 Suite 1000  
 Miami, Florida 33133  
 (305) 859-2050  
 Fax (305) 860-3700

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 CITY OF KEY WEST, FL  
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SUB-CONSULTANT INFORMATION:



Consulting Engineers  
 4930 S.W. 74th Court  
 Miami, Florida, 33155  
 Phone: 305.666.0711  
 State of Florida - Authorization No. 1306  
 website: www.ddaeng.com

PROFESSIONAL SEAL:

PEDRO J. DUQUESNE P.E. #22764

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 October 21, 2016

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DATE:

DRAWING TITLE:  
 BATHROOM  
 FOUNDATION AND GROUND  
 FLOOR PLAN AND ROOF  
 FRAMING PLAN.

SHEET NO.

**S-2.01**

**BATHROOM - FOUNDATION PLAN**

S-2.01 SCALE: 1/4" = 1'-0"

**GENERAL STRUCTURAL NOTES**

**1. GENERAL:**

THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSIONS, SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK. CONTRACTOR TO PROVIDE ADEQUATE TIME FOR RESPONSE FROM ARCHITECT/ENGINEER.

CONTRACTOR AGREES THAT HE WILL HOLD OWNER, ARCHITECT, ENGINEERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, HARMLESS FROM ANY AND ALL DAMAGE AND CLAIMS WHICH MAY ARISE BY REASON OF ANY NEGLIGENCE ON THE PART OF THE CONTRACTOR, OR ANY OF HIS SUBCONTRACTORS, OR ANY MATERIAL AND EQUIPMENT SUPPLIERS, AND/OR ANY OF THEIR EMPLOYEES OR AGENTS, IN THE PERFORMANCE OF THIS CONTRACT. IN CASE ANY ACTION IS BROUGHT AGAINST THE OWNER, OR ARCHITECT, OR ENGINEER, OR ANY OF THEIR EMPLOYEES OR AGENTS, CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DEFENSE THEREOF, TO THE FULL SATISFACTION OF THE LATTER PARTY.

**2. DESIGN LOADS: THE FOLLOWING SUPERIMPOSED LOADS WERE USED (UNO):**

ROOF:  
DEAD LOAD = 30 PSF  
LIVE LOAD = 30 PSF

FLOOR:  
DEAD LOAD = 5 PSF  
LIVE LOAD = 100 PSF

WIND LOADS AS PER ASCE 7-10:  
DESIGN WIND SPEED = 180 MPH  
EXPOSURE CATEGORY = D  
Kd = 0.85

DESIGN WIND PRESSURE ON ROOFING AS INDICATED ON THE DRAWINGS. STRUCTURAL SYSTEM FOR THE BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2014 EDITION.

**3.- SITE AND SOIL PREPARATION:**

GENERAL CONTRACTOR MUST PERFORM THE SITE PREPARATION AND EXCAVATION WORK IN ACCORDANCE WITH THE RECOMMENDATIONS ON SOILS AND FOUNDATIONS INVESTIGATION PREPARED BY: NUTTING ENGINEERS, THE GEOTECHNICAL ENGINEERS FOR SHALLOW FOUNDATIONS, PRIOR TO FOUNDATION WORK. A COPY OF THE SOIL REPORT DATED: JUNE 6, 2014, TO BE OBTAINED BY GENERAL CONTRACTOR FOR ANY ADDITIONAL INFORMATION PERTAINING TO THE FOUNDATIONS. SOIL PREPARATION SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER TO CERTIFY THE INDICATED SOIL BEARING CAPACITY.

**4.- FOUNDATIONS:**

BASED ON SOIL BORINGS AND RECOMMENDATIONS MADE BY NUTTING ENGINEERS, THE FOUNDATIONS HAVE BEEN DESIGNED WITH SHALLOW FOOTINGS FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 P.S.F. GENERAL CONTRACTOR IS TO OBTAIN A COPY OF SOIL REPORT BY NUTTING ENGINEERS, DATED ON JUNE 6, 2014 TO COMPLETE THE SOIL PREPARATION INSTRUCTIONS.

**5. DEWATERING (IF APPLICABLE):**

MUST EVACUATE ALL WATER FROM WITHIN FORMWORK BEFORE PLACEMENT OF ANY CONCRETE, AFTER DEWATERING AND BEFORE PLACING CONCRETE, MUST RINSE THE REINFORCING STEEL CLEAN OF ALL DELETERIOUS MATERIAL IF PREVIOUSLY LEFT SUBMERGED.

**6. EXCAVATIONS:**

GENERAL CONTRACTOR TO NOT EXCAVATE ADJACENT TO OR NEAR NEW STRUCTURES AFTER THEY HAVE BEEN CONSTRUCTED, EXCAVATIONS FOR UTILITIES ADJACENT TO OR NEAR NEW STRUCTURES TO BE COMPLETED BEFORE THE NEW STRUCTURES ARE CONSTRUCTED. COORDINATE ALL UTILITIES WITH STRUCTURAL DRAWINGS. IF CONFLICTS EXIST CONTACT ARCHITECT AND STRUCTURAL ENGINEER.

GENERAL CONTRACTOR TO EXERCISE CAUTION DURING EXCAVATIONS ADJACENT TO THE EXISTING STRUCTURES. IF THERE EXIST A DEVIATION OF THE EXISTING FOUNDATION FROM WHAT IS SHOWN IN THESE PLANS, CONTACT ARCHITECT AND STRUCTURAL ENGINEER. LATERAL SUPPORT, AND FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE CONSTRUCTION.

**7. SLABS ON FILL:**

FILL AND BACKFILL TO BE COMPACTED UNDER THE SUPERVISION OF A SPECIALTY ENGINEER TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY FOR ALL LAYERS AS VERIFIED BY FIELD DENSITY TESTS. TESTS SHALL BE MADE IN ACCORDANCE WITH METHODS OF TESTS FOR MOISTURE DENSITY RELATIONS OF SOILS, ASTM D-1557 MODIFIED TO USE 25 BLOWS ON FIVE LAYERS WITH A 10 POUND HAMMER DROPPING 18 INCHES. IN ADDITION, A MINIMUM OF ONE IN-PLACE FIELD DENSITY TEST SHALL BE PERFORMED FOR EACH 25000 SQUARE FEET, OR FRACTION THEREOF, FOR EACH LIFT OF COMPACTED SOIL, AND SUCH TESTING SHALL BE PERFORMED IN ACCORDANCE WITH EITHER ASTM D 1556, STANDARD TEST METHOD FOR DENSITY OF SOIL IN-PLACE BY THE SAND CONE; OR ASTM D 2922, STANDARD TEST METHODS FOR DENSITY OF SOIL AND SOIL AGGREGATE IN PLACE BY NUCLEAR METHODS OR OTHER APPROVED METHODS. CONFACTION LAYERS NOT TO EXCEED 12". BACKFILL MATERIAL TO BE APPROVED BY SOIL ENGINEER. SLABS TO BE PLACED CONTINUOUSLY, HOWEVER, MUST BE SAW CUT SAME DAY IT IS PLACED AND LIMITED TO 200 SF, AND 15 FEET IN ANY DIRECTION. PROVIDE VAPOR BARRIER BELOW ALL SLABS ON FILL (10 MIL). REFER TO ARCHITECTURE FOR REQUIRED SOIL POISONING BENEATH ALL SLABS ON GRADE.

**8. CONCRETE (SHOP DRAWINGS REQUIRED):**

CONCRETE TO ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS AND W/C RATIO OF 0.25. AGGREGATES TO BE CLEAN AND WELL GRADED, MAXIMUM SIZE 1". CONCRETE SLUMP: 3" MIN. TO 5" MAX. VERTICAL CONCRETE DROP NOT TO EXCEED 8".

**9. CONCRETE TESTING:**

AN INDEPENDENT TESTING LABORATORY, RETAINED BY THE CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS ON CAST-IN-PLACE CONCRETE: ASTM C 143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE" ASTM C 39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS". ONE TEST SHALL BE PERFORMED ON EACH CLASS OF CONCRETE PER EVERY 500 CUBIC YARDS, OR FRACTION THEREOF, PLACED PER DAY, PER EACH TYPE OF CONCRETE MIX. A SET OF FIVE CYLINDERS SHALL BE TAKEN, THE SAMPLES SHALL BE TESTED AT AGE OF 3 DAYS (ONE), 7 DAYS (ONE), 28 DAYS (TWO) AND 56 DAYS (REMAINING SAMPLE SHALL BE TESTED ONLY IF 28-DAY OLD CONCRETE FAILED TO ATTAIN ITS SPECIFIED DESIGN STRENGTH).

**10. REINFORCING STEEL (SHOP DRAWINGS REQUIRED):**

TO BE NEW HIGH STRENGTH STEEL DEFORMED AS PER ASTM A 615, GRADE 60 (OR ASTM A 706 GRADE 60 WHERE WELDING IS ANTICIPATED). ALL REINFORCING SHALL BE FREE OF SCALE, RUST OR OIL. REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCING CONCRETE STRUCTURES", AND THE A.C.I. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318, LATEST EDITION. MECHANICAL OR WELDED SPLICES SHALL DEVELOP A MINIMUM OF 125 PERCENT OF THE SPECIFIED YIELD STRENGTH.

**REQUIRED CLEAR CONCRETE COVER TO REINFORCEMENT**

	BOTTOM	TOP	SIDES
FOOTINGS	3"	2"	3"
GRADE BEAMS	3"	2"	2"
WALLS	---	---	1 1/2"
COLUMNS	---	---	1 1/2"
BEAMS	1 1/2"	1 1/2"	1 1/2"
SLABS	1"	1"	1"

ALL REINFORCEMENT SHALL BE SUPPORTED ON CHAIRS (SLAB-ON-GRADE, FOOTING OR PILE CAP REINFORCEMENT MAY BE SUPPORTED ON CONCRETE BRICKS), PROVIDE FULL TENSION SPLICE AT ALL REINFORCEMENT NOTED ON DRAWINGS AS CONTINUOUS, UNLESS DRAWINGS SPECIFICALLY CALL FOR HEAVIER REINFORCEMENT, FREE EDGES OF ALL CONCRETE SLABS (SLABS-ON-GRADE, REINFORCED OR POST-TENSIONED SLABS, STAIR SLABS, ETC.) SHALL BE REINFORCED WITH (1/4" CONT. TOP AND BOTTOM.

**11. CONSTRUCTION JOINTS (SHOP DRAWINGS REQUIRED):**

SLABS-ON-GRADE: LOCATION OF A CONSTRUCTION JOINT SHALL COINCIDE WITH THAT OF A CONTRACTION JOINT, PROVIDE A CONTINUOUS 1/2" DEEP X 1/2" DEPTH OF SLAB CONTINUOUS SHEAR KEY AT MID-DEPTH. PROVIDE RECESS ALONG TOP OF JOINT SIMILAR TO CONTRACTION JOINT, UNLESS NOTED OTHERWISE ON PLAN. DISCONTINUE SLAB REINFORCEMENT THROUGH THE JOINT. PROVIDE (1/4" CONT. PARALLEL TO JOINT WITHIN NEW SLAB) DISCONTINUE AT TRANSVERSE CONTRACTION JOINTS. CONSTRUCTION JOINTS TO HAVE A MAXIMUM SPACING OF 2 TO 3 TIMES THE SLAB THICKNESS.

**12. WELDED WIRE FABRIC:**

SHALL CONFORM TO ASTM A 185 AND BE FREE OF SCALE, RUST OR OIL. SPLICE SHEETS ONE-AND-A-HALF SPACE LENGTHS (MINIMUM).

**13. WEATHER RESISTANCE:**

TOP OF FLAT CONCRETE SURFACES REMAINING EXPOSED TO THE ELEMENTS THROUGHOUT THE LIFE OF THE STRUCTURE ARE TO BE TREATED WITH A CLEAR, NON-FLAMMABLE PENETRATING SEALER (SOMEHOW PENETRATING SEALER 20, HYDROZO ENVIROSEAL 20 OR AN ENGINEER APPROVED SUBSTITUTE). COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION (COMPATIBILITY WITH FINISHES).

**14. PENETRATIONS:**

UNLESS CLEARLY SHOWN ON STRUCTURAL DRAWINGS, NO PENETRATIONS SHALL BE MADE IN ANY PART OF THE STRUCTURE WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IDENTIFY SUCH PENETRATIONS BASED ON INFORMATION PROVIDED BY ALL SUBCONTRACTORS AND TO SUBMIT DETAILED AND DIMENSIONED FLOOR PLANS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY LABOR AND MATERIALS ASSOCIATED WITH ADDITIONAL REINFORCEMENT OF STRUCTURAL MEMBERS RESULTING FROM INTRODUCTION OF SUCH PENETRATIONS.

**15. MASONRY:**

- A. ALL CONCRETE BLOCK TO BE GRADE N-2, CONFORMING TO ASTM C-90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1300 PSI, AND A PRISM STRENGTH OF 1500 PSI (MINIMUM). MORTAR SHALL BE TYPE M, WITH A MINIMUM STRENGTH OF 2500 PSI (USE PORTLAND TYPE CEMENT). TEST MASONRY UNITS AND MORTAR BY TESTING LAB AT A RATE OF EVERY 10000 SQUARE FEET OF WALLS ERECTED.
- B. MASONRY WALLS SHALL BE REINFORCED HORIZONTALLY WITH 8 GAUGE DEFORMED GALVANIZED STEEL, SPACED AT 16" C/C VERT. EXTEND HORIZONTAL REINFORCING 4" INTO ADJACENT COLUMNS. PROVIDE TRUSS TYPE FOR NON-REINFORCED MASONRY AND LADDER TYPE FOR REINFORCED MASONRY.
- C. FOR VERTICAL REINFORCEMENT, SEE SCHEDULE AND LAP 48 BAR DIAMETERS MINIMUM. PROVIDE FULL BED OF MORTAR FOR REINFORCED MASONRY.
- D. AT ALL INTERIOR NON-BEARING BLOCK WALLS, MUST PROVIDE A TIE- BEAM 8" X 12", WITH FOUR #5 CONT. AND #3 TIES AT 48" C/C.
- E. PROVIDE CLEANOUTS WHEN GROUTING BLOCK CELLS, AND CLEAN OUT BLOCK CELLS OF ALL MORTAR DROPPINGS. MAXIMUM VERTICAL DROP FOR GROUTING IS 4'-0".
- F. AT THE END OF EACH DAY COVER ALL MASONRY WALLS.

**16. CONCRETE TIE COLUMNS (IF APPLICABLE):**

THE COLUMNS SHALL BE CAST AGAINST PRE-ERECTED MASONRY WALLS. HORIZONTAL WALL REINFORCEMENT SHALL EXTEND 4" INTO CONCRETE TIE COLUMNS, UNLESS SHOWN OTHERWISE. ALL TIE COLUMNS SHALL EXTEND TO THE UNDERSIDE OF SLAB/ BEAM OF THE FLOOR ABOVE (DO NOT TERMINATE AT INTERMEDIATE CONCRETE BEAMS OR TIE BEAMS) AND SPLICE VERTICAL REINFORCEMENT 62 BAR DIAMETERS IF DISCONTINUED WITH VERTICAL REINFORCEMENT CONTINUOUS THROUGH OR DEVELOPED INTO THE SLAB/B EAM.

**17. CONCRETE TIE BEAMS (IF APPLICABLE):**

THE BEAMS SHALL BE CAST ON TOP OF PRE-ERECTED MASONRY WALLS. CORNER BARS SHALL BE PROVIDED AT ALL CORNERS AND INTERSECTIONS OF TIE BEAMS (MINIMUM LAP SPLICE 48 BAR DIA). ALL LONGITUDINAL TIE BEAM REINFORCEMENT SHALL BE CONTINUOUS THRU INTERMEDIATE TIE COLUMNS (MINIMUM SPLICE 62 BAR DIAMETERS) OR HOOK AT FAR FACE OF END TIE COLUMNS WHERE TIE BEAM TERMINATES AT CONCRETE COLUMN OR WALL. PROVIDE ONE #6 BAR X 4'-6" BETWEEN EACH PAIR OF LONGITUDINAL BARS (EPOXY 45" INTO CONCRETE AND ROUGHEN FACE OF CONCRETE TO 1/4" AMPLITUDE PRIOR TO PLACEMENT OF CONCRETE) WHERE REQUIRED. BOTTOM OF THE BEAM MAY BE DROPPED TO SERVE AS A LITEL WITH ADDITIONAL #5 HORIZONTAL BARS AT 12" C/C VERTICAL SPACING PROVIDED AT EACH FACE OF THE BEAM.

**18. LINTELS (IF APPLICABLE):**

UNLESS NOTED OTHERWISE ON THE DRAWINGS, CONCRETE LINTELS SPANNING OPENINGS UP TO 3'-4" IN WIDTH SHALL BE 8"x8" WITH (1/4" EF. AT MID-DEPTH CONCRETE LINTELS SPANNING OPENINGS UP TO 1'-4" IN WIDTH SHALL BE 8"x12" WITH (2) #5 TOP AND BOTTOM AND #3 AT 12" C/C STIRRUPS. CONCRETE LINTELS SPANNING OPENINGS UP TO 12'-0" IN WIDTH SHALL BE 8"x16" WITH (2)#5 TOP AND BOTTOM AND #3 AT 6" C/C STIRRUPS. ALL LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END (2" FOR 16" DEEP LINTELS). PRECAST LINTELS SHALL BE NOTCHED AT ENDS IN ORDER TO FACILITATE PLACEMENT OF VERTICAL REINFORCEMENT IN MASONRY WALLS. LINTELS ABUTTING CONCRETE COLUMNS SHALL BE CAST IN PLACE. AT CONTRACTOR'S OPTION UTILIZED PRECAST LINTELS SHALL BE DESIGNED FOR GRAVITY AND LATERAL LOADS AS PER SOUTH FLORIDA BUILDING CODE. SHOP DRAWING SUBMITTAL, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, SHALL INCLUDE CALCULATIONS INDICATING CLEARLY VERTICAL AND HORIZONTAL ALLOWABLE LOAD CAPACITIES.

**19. SILLS (IF APPLICABLE):**

UNLESS NOTED OTHERWISE ON THE DRAWINGS, BOTTOM OF EACH OPENING WITHIN MASONRY WALL SHALL RECEIVE AN 8"x8" CAST-IN-PLACE CONCRETE SILL REINFORCED WITH (1/4" EF. AT MID-DEPTH, EACH END OF SILL AT OPENINGS EXCEEDING 5'-0" IN WIDTH SHALL HAVE A (1/5" X 2'-6" CENTER DOUVE). (EPOXY 4" INTO ADJACENT MASONRY OR CONCRETE). SILLS AT OPENINGS EXCEEDING 8'-0" IN WIDTH SHALL BE 8"x12" WITH (2)#5 TOP AND BOTTOM AND #3 STIRRUPS AT 48" C/C.

**20. DETAILS AND SECTIONS:**

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, UNLESS A DIFFERENT DETAIL, OR SECTION, IS SHOWN.

**21. WINDOW/SLIDING DOORS/OVERHEAD (SHOP DRAWINGS REQUIRED):**

WINDOW/SLIDING DOORS/OVERHEADS WITH CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED BY THE SPECIALTY ENGINEER FOR LOADS AS PER THE FLORIDA BUILDING CODE (WITH CALCULATIONS), SHALL INCLUDE PLANS AND DETAILS CLEARLY INDICATING DESIGN LOADS, MATERIALS USED, FINISHES, FASTENERS AS WELL AS LOADS IMPOSED BY THE WINDOW/SLIDING GLASS DOOR/OVERHEAD ON THE STRUCTURE. SIDES OF ALL SLIDING GLASS DOORS AND FULL-HEIGHT WINDOWS SHALL BE DESIGNED AS MILLIONS AND BE CAPABLE OF SPANNING FULL-HEIGHT WITHOUT ASSISTANCE FROM ADJACENT CONCRETE/MASONRY (ALTHOUGH SUCH MILLIONS MAY BE DETAILED AS FASTENED TO SIDES OF OPENING).

**22. ANCHORING ADHESIVES:**

ADHESIVE ANCHORS FOR USE IN CONCRETE SHALL:

- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
- B) BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS PER ACI 318-II D.2.2.
- C) BE INSTALLED IN DRY HOLES THAT ARE 1/8" LARGER THAN THE DIAMETER OF THE REINFORCING STEEL OR THREADED ROD UNLESS OTHERWISE NOTED IN THESE PLANS, OR UNLESS OTHERWISE NOTED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
- D) HAVE A MAXIMUM IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAXIMUM IN-SERVICE LONG-TERM TEMPERATURE OF 110°F (ACI 318-II D.9.2.1). FOR ANCHORING REINFORCING STEEL OR THREADED ROD IN EXISTING CONCRETE USE "HIT-HY 2000" BY HILTI, "SET-XP" OR "AT-XP" BY SIMPSON OR EQUAL. OTHER AVAILABLE ADHESIVES ARE MADE BY ITU/RED HEAD, ULTRA BOND OR FOLIERS FASTENERS. DRILLED HOLES SHALL BE CLEANED BEFORE DISPENSING THE ADHESIVE PER THE MPII. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS SHALL BE INSTALLED IN CONCRETE CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM IN ACCORDANCE WITH ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT, AND SHALL REQUIRE CONTINUOUS SPECIAL INSPECTION (ACI 318-II D.9.2.2 AND D.9.2.4).

**23. EXPANSION BLOTS:**

EXPANSION BOLTS FOR USE IN CONCRETE SHALL:

- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ACI 308.2 AND ICC-ES AC108 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
- B) BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). EXPANSION BOLTS NOTED IN PLANS SHALL BE "KIWI BOLT T2" BY HILTI, "STRONG-BOLT 2" BY SIMPSON OR EQUAL. FOR SUBSTITUTION, SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

**24. HEAVY DUTY SCREW ANCHORS:**

SCREW ANCHORS FOR USE IN CONCRETE SHALL:

- A) HAVE BEEN QUALIFIED IN ACCORDANCE WITH ICC-ES AC103 FOR CRACKED AND UN-CRACKED CONCRETE RECOGNITION.
- B) BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SCREW ANCHORS NOTED IN PLANS SHALL BE "KIWI HUS-EZ" BY HILTI, "TITEN HD" BY SIMPSON OR EQUAL. FOR SUBSTITUTION, SUBMIT TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

**25. SHOP DRAWINGS:**

NO SHOP DRAWING SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING, AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR, AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS, AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER, AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH SHOP DRAWINGS.

**26. SPECIALTY ENGINEER ITEMS ON THIS PROJECT INCLUDE:**

- STEEL TO STEEL CONNECTIONS.
- PRECAST CONCRETE.
- RAILINGS / FENCES/ METAL STAIRS.
- EXTERIOR METAL PANEL SYSTEMS.
- METAL CLADDING.

**27.- STRUCTURAL STEEL:**

- A. SHALL CONFIRM TO ASTM A992, GRADE 50, DETAILED, FABRICATED AND ERECTION IN ACCORDANCE ALSO SPECIFICATIONS, LATEST EDITION. STEEL TUBES TO CONFORM TO A-5002 GRADE B (11.46 KS). SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION. ALL STRUCTURAL STEEL TO BE HOT DIPPED GALVANIZED.
- B. FABRICATE AND ERECTION STRUCTURAL STEEL IN CONFORMANCE WITH SPECIFICATION SECTION 05122 AND ALSO SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS WITH COMMENTARY. FABRICATOR TO BE AISC CATEGORY Ccd (2) CERTIFIED. USE THE FOLLOWING:
  - ROLLED SHAPES: ASTM A992 OR ASTM A572 GR. 50.
  - PLATES AND BARS: ASTM A36
- C. WELD ALL SHOP CONNECTIONS, U.O.N. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D11, LATEST EDITION. REQUIRE ALL SHOP WELDS TO BE SHOWN ON THE FABRICATION DRAWINGS AND ALL FIELD WELDS ON THE ERECTION DRAWINGS. FIELD WELD ON GALVANIZED MEMBERS SHALL BE PROTECTED WITH COLD GALVANIZING PAINT.

D. ALL WELDING PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS PROCEDURES FOR THE WELDING PROCESS AND WELDING POSITION USED. SUBMIT CERTIFICATES TO ARCHITECT/ENGINEER FOR THEIR RECORDS BEFORE BEGINNING WELDING.

E. USE ELECTRODES CONFORMING TO AWS D11, E70 SERIES U.O.N.

F. A325 BOLTS: 2) SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS? R.C.S.C. 11-13-85 INCLUDING COMMENTARY.

- A325 BOLTS SHALL CONFORM TO ASTM A325 TYPE I, HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS. DO NOT USE TYPE 2 BOLTS.

- PROVIDE HARDENED WASHERS CONFORMING TO ASTM F436 PLACE HARDENED WASHERS UNDER PART BEING TURNED.

- PROVIDE ALL BOLTS, NUTS AND WASHERS IN SETS THAT ARE NEW AND DOMESTICALLY MANUFACTURED. DO NOT REUSE BOLTS. USE ONLY NON-GALVANIZED NUTS AND BOLTS THAT ARE CLEAN, RUST-FREE AND WELL LUBRICATED. BOLTS AND NUTS SHALL BE WAX DIPPED BY THE BOLT SUPPLIER OR LUBRICATED WITH JOHNSON'S STICK WAX 140.

- BEARING-TYPE BOLTS (A-325N, A-325X, A-490X) SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH.

- SLIP-CRITICAL BOLTS (A-325SC AND A-490SC) SHALL BE TIGHTENED TO THE MINIMUM FASTENER TENSION INDICATED IN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A-325 OR ASTM A-490 BOLTS, SECTION 5, TABLE 3. TENSION SHALL BE DETERMINED SOLELY BY USE OF DIRECT HARDENED WASHERS SHALL BE USED FOR SLIP-CRITICAL BOLTS. PROVIDE ONLY DOMESTICALLY MANUFACTURED D.T.I'S.

G. USE A-307 BOLTS FOR ALL ERECTION BOLTS AND ALL BOLTS LESS THAN 1" DIAMETER, U.O.N.

H. CUT, DRILL OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES. DO NOT FLAME CUT HOLES OF ENLARGE HOLES BY BURNING.

J. SPLICING OF STRUCTURAL STEEL MEMBERS IN THE FIELD OR IN THE SHOP IS PROHIBITED EXCEPT WHERE INDICATED ON THE DRAWINGS.



**BERMELLO AJAMIL & PARTNERS-INC**

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayshore Drive  
Suite 1000  
Miami, Florida 33133  
(305) 859-2050  
Fax (305) 860-3700

**PREPARED FOR/OWNER:**

CITY OF KEY WEST, FL  
P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



**PROJECT NAME:**

**TRUMAN WATERFRONT PARK AMPHITHEATER**

**PROJECT LOCATION/ADDRESS:**

TRUMAN WATERFRONT PARK

**SUB-CONSULTANT INFORMATION:**



Consulting Engineers  
4930 S.W. 74th Court  
Miami, Florida, 33155  
Phone: 305.666.0711  
State of Florida - Authorization No. 1306  
website: www.ddaeng.com

**PROFESSIONAL SEAL:**

PEDRO J. DUQUESNE P.E. #22764

**SUBMITTAL DESCRIPTION / MILESTONE:**

**BIT SET  
October 21, 2016**

**REVISIONS:**


**DRAWING SHEET INFORMATION**

BA PROJECT NO.: 15096  
SCALE:  
DATE:

DRAWING TITLE:  
GENERAL STRUCTURAL NOTES.

SHEET NO.

**S-3.01**



**BERMELLO AJAMIL & PARTNERS-INC**

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayshore Drive  
Suite 1000  
Miami, Florida 33133  
(305) 859-2050  
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BA PROJECT NO.: 15086

SCALE:

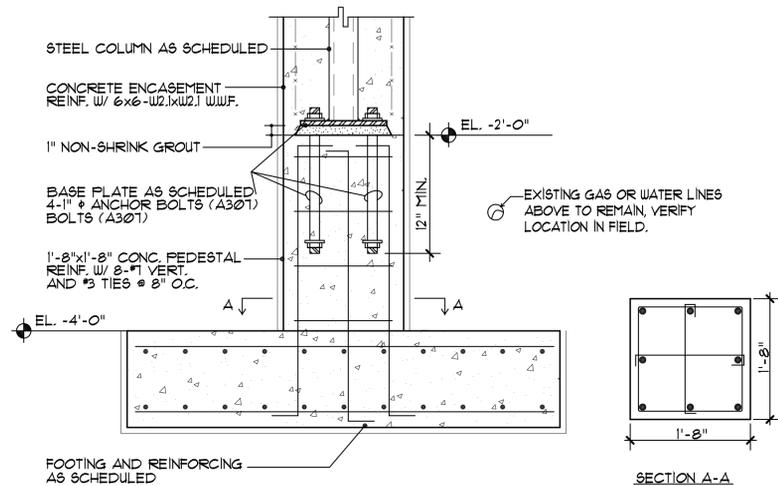
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SCHEDULES AND  
TYPICAL DETAILS

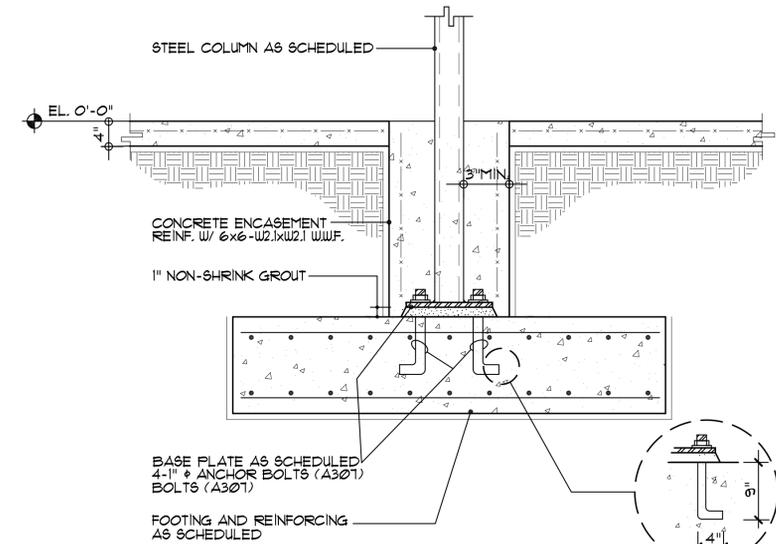
SHEET NO.

**S-3.02**



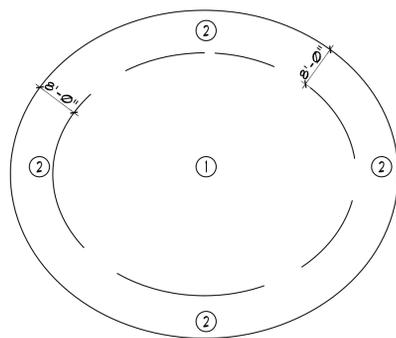
**CONCRETE PEDESTAL (P1) DETAIL**

SCALE: N.T.S.



**STEEL COLUMN SCHEDULE DETAIL**

SCALE: N.T.S.



NOTE: VALUES INDICATED ARE NET UPLIFT.

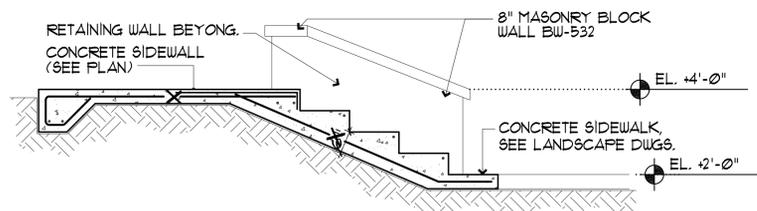
ZONE	WIND LOAD PRESSURES FOR ROOFING DESIGN
①	-50 P.S.F.
②	-90 P.S.F.

WIND DESIGN CRITERIA  
V = 180 MPH  
EXPOSURE D  
kd = 0.85  
h = 32 ft.  
PARTIALLY ENCLOSED BUILDING

AREA	ZONE (4)		ZONE (5)	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
10 ft. <sup>2</sup> to 25 ft. <sup>2</sup>	13 P.S.F.	11 P.S.F.	13 P.S.F.	90 P.S.F.
26 ft. <sup>2</sup> to 50 ft. <sup>2</sup>	10 P.S.F.	14 P.S.F.	10 P.S.F.	84 P.S.F.
51 ft. <sup>2</sup> to 100 ft. <sup>2</sup>	61 P.S.F.	12 P.S.F.	61 P.S.F.	80 P.S.F.
101 ft. <sup>2</sup> to 150 ft. <sup>2</sup>	65 P.S.F.	69 P.S.F.	65 P.S.F.	75 P.S.F.
151 ft. <sup>2</sup> AND UP	63 P.S.F.	68 P.S.F.	63 P.S.F.	72 P.S.F.

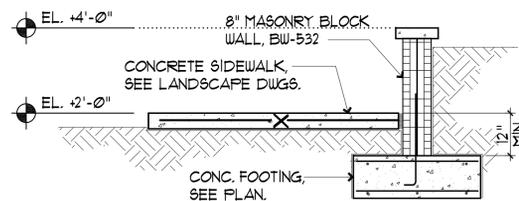
NOTES:  
1- ZONE (5) IS DEFINED AS ANY DOOR OR WINDOW WITHIN 8'-0" FROM ANY CORNER OF THE BUILDING. ALL OTHER LOCATIONS ARE DEFINED AS ZONE (4)  
2- VALUES INDICATED CAN BE INTERPOLATED.

**ROOFING AND WALL WIND PRESSURE FOR AMPHITHEATER**



**SECTION 2**

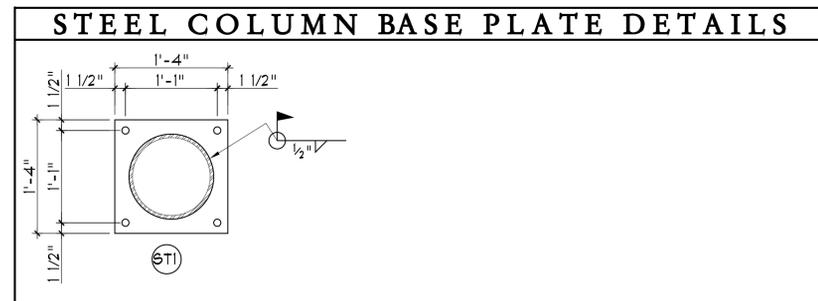
SCALE: 1/2"=1'-0"



**SECTION 1**

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

MARK	STEEL COLUMN			REMARKS
	SIZE	BASE PLATE	CAP PLATE	
(ST1)	HSS12.75x0.500	16"x16"x1" W/(4) 1" AB	16"x16"x3/4"	



MARK	SIZE	REINFORCEMENT	REMARKS
(A)	6'-0" x 6'-0" x 1'-4"	(6)-#5 EACH WAY TOP & BOTTOM	
(B)	9'-0" x 9'-0" x 1'-8"	(8)-#6 EACH WAY TOP & BOTTOM	
TE	8" x 12"	2-#5 LONG #3@48" C/C TRANSV.	
WF-24	24" x 12" DEEP	(3)-#5 BOTTOM, CONTINUOUS #5@12" c/c BOTTOM, TRANSVERSE	
WF-36	36" x 12" DEEP	(3)-#5 BOTTOM, CONTINUOUS, (2) #5 TOP CONT. #5@12" c/c TOP AND BOTTOM, TRANSVERSE	

MARK	THICKNESS	REINFORCEMENT		REMARKS
		VERTICAL	HORIZONTAL	
BW-532	8"	#5@32" c/c	NO. 3 GAGE DUR-O-WALL LADDER TYPE #16"	FILL REINFORCED CELLS WITH GROUT.



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BA PROJECT NO.: 15086

SCALE:

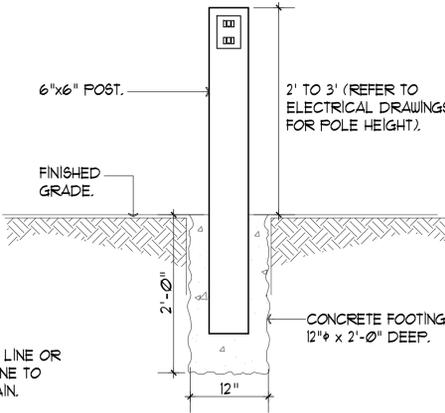
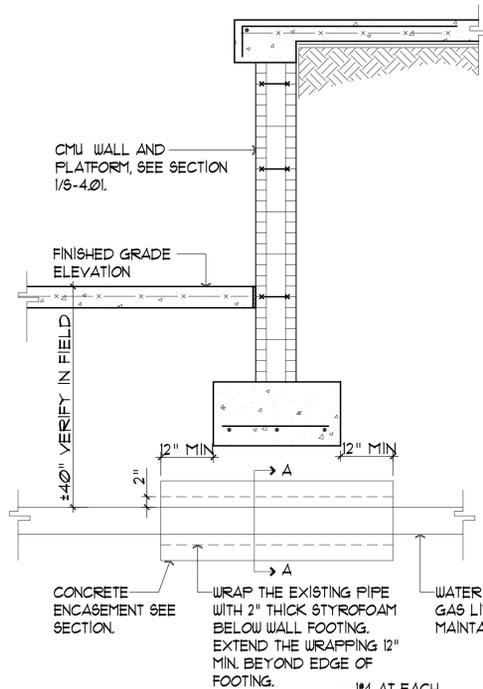
DATE:

DRAWING TITLE:

SCHEDULES AND  
TYPICAL DETAILS

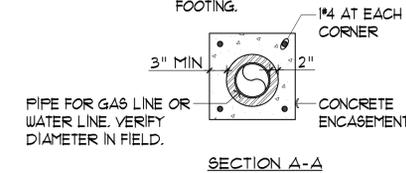
SHEET NO.

**S-3.03**



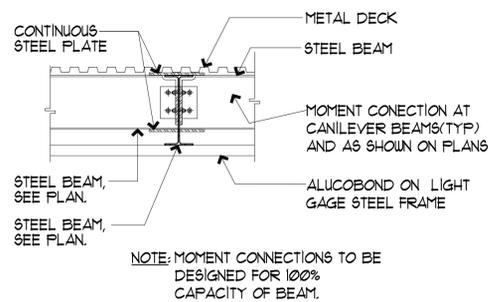
**TYPICAL OUTLET POST DETAIL**

**K DETAIL**  
6-3.03 SCALE: N.T.S.



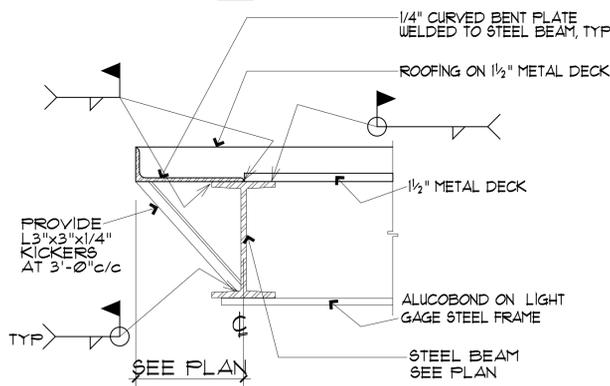
SECTION A-A

**L DETAIL**  
6-3.03 SCALE: N.T.S.



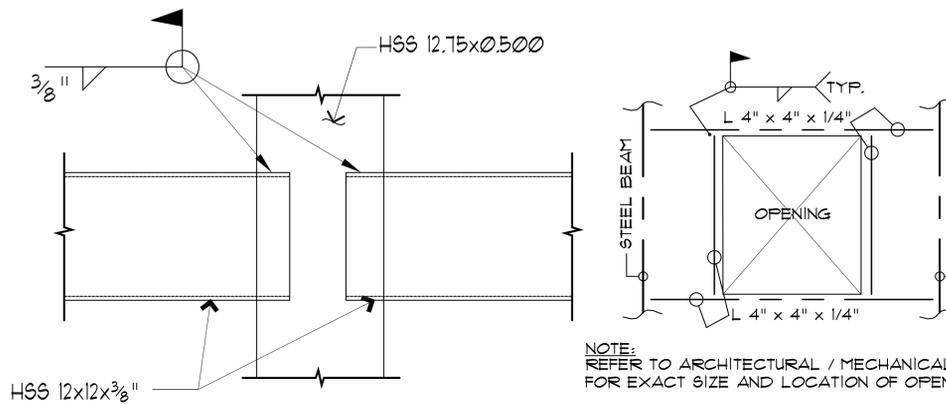
NOTE: MOMENT CONNECTIONS TO BE DESIGNED FOR 100% CAPACITY OF BEAM.

**J DETAIL**  
6-3.03 SCALE: N.T.S.



**TYPICAL EDGE DETAIL**

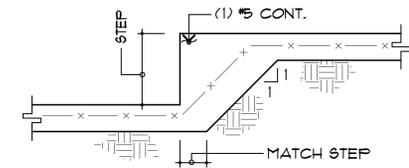
**H DETAIL**  
6-3.03 SCALE: N.T.S.



NOTE: REFER TO ARCHITECTURAL / MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION OF OPENINGS.

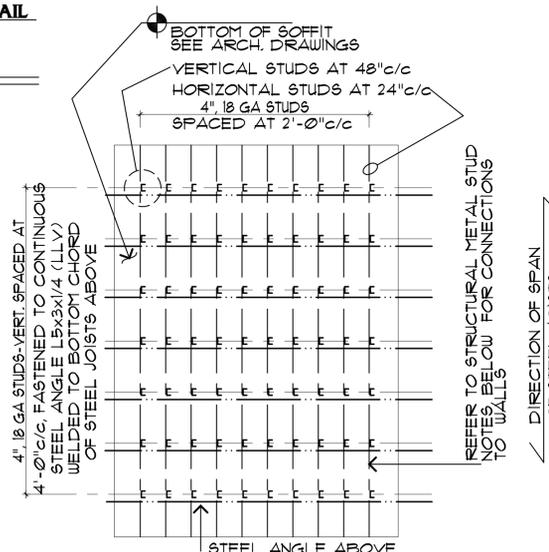
**TYPICAL OPENING DETAIL AT ROOF**

**E DETAIL**  
6-3.03 SCALE: N.T.S.



**TYPICAL DETAIL OF STEP IN SLAB**

**B DETAIL**  
6-3.03 SCALE: N.T.S.

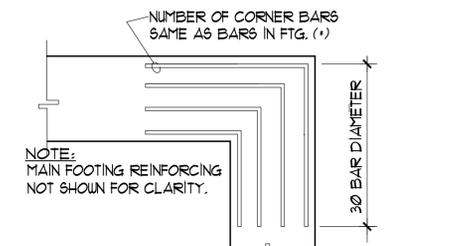


**STRUCTURAL METAL STUD NOTES:**

- 1- ALL METAL STUDS SHALL BE 4" STANDARD, 1/8" FLANGE WIDTH, 18 GAGE, SPACED AT 16"(IN) CENTER TO CENTER.
- 2- ALL METAL STUD TRACKS SHALL BE 3 3/8" STD, 18 GAGE, TYPICAL UNLESS OTHERWISE NOTED.
- 3- ALL DIAGONAL BRACING SHALL BE 6" STD, 18 GAGE, SPACED AT 2'-8" CENTER TO CENTER, TYPICAL UNLESS OTHERWISE NOTED ON PLAN. (IF APPLICABLE)
- 4- ALL DIAGONAL STUD BRACING CONNECTIONS TO VERTICAL STUDS TO BE MADE WITH FOUR (4) No. 10-16 SCREWS, TYPICAL UNLESS OTHERWISE NOTED.
- 5- ALL STUD TO STUD CONNECTIONS SHALL BE MADE WITH TWO (2) No. 10-16 SCREWS, 0.153 DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.
- 6- ALL METAL TRACK CONNECTIONS TO CONCRETE TO BE MADE WITH TWO (2)-0.111(IN) SHANK DIAMETER POWER DRIVEN FASTENERS AT 16" CENTER TO CENTER, TYPICAL UNLESS OTHERWISE NOTED.
- 7- ALL VERTICAL STUD TO ANGLE CONNECTION TO BE MADE WITH 3/16" FILLET WELD, 3" LONG, EACH SIDE OF VERTICAL FLANGE.

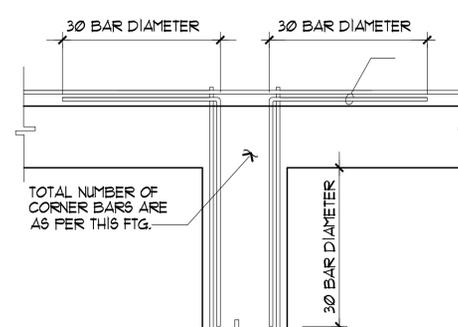
**EXTERIOR CEILING SOFFIT DETAIL FOR STEEL JOIST FRAMING**

**F DETAIL**  
6-3.03 SCALE: N.T.S.



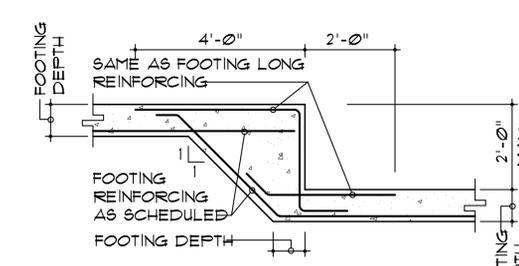
NOTE: MAIN FOOTING REINFORCING NOT SHOWN FOR CLARITY.

**FOOTING CORNER BAR DETAILS AT 'L' SECTION**



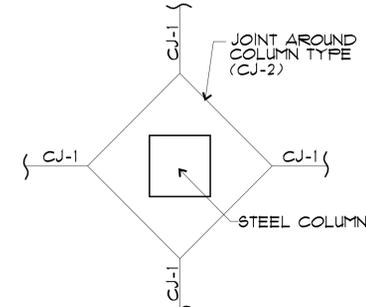
**FOOTING CORNER BAR DETAILS AT 'T' SECTION**

**D DETAIL**  
6-3.03 SCALE: N.T.S.

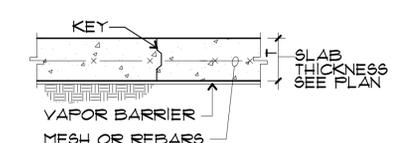


**TYPICAL STEPPED FOOTING DETAIL**

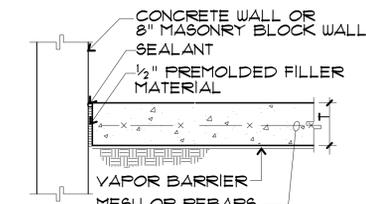
**C DETAIL**  
6-3.03 SCALE: N.T.S.



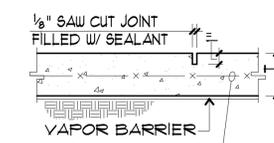
**TYPICAL CONTROL JOINT DETAIL AT STEEL COLUMN**



**CONTROL JOINT (CJ-3) AT EXPANSION JOINTS AND TERMINATED FOORS**



**ISOLATION JOINT (CJ-2) AT ALL SLABS ADJACENT TO MASONRY WALLS**



**CONTROL JOINT (CJ-1) FOR DIAMOND SAWCUTS AT FREE STANDING COLUMNS AND FOR FLOOR SAWCUTS.**

**TYPICAL CONTROL JOINT DETAILS**

**A DETAIL**  
6-3.03 SCALE: N.T.S.



**BERMELLO AJAMIL & PARTNERS INC.**

Architecture • Engineering • Planning  
Interior Design • Landscape Architecture  
2601 South Bayshore Drive  
Suite 1000  
Miami, Florida 33133  
(305) 859-2050  
Fax (305) 860-3700

PREPARED FOR/OWNER:  
CITY OF KEY WEST, FL  
P. O. BOX 1409  
3140 FLAGLER AVENUE  
KEY WEST, FL 33041



PROJECT NAME:

**TRUMAN WATERFRONT PARK AMPHITHEATER**

PROJECT LOCATION/ADDRESS:  
TRUMAN WATERFRONT PARK

SUB-CONSULTANT INFORMATION:



Consulting Engineers  
4930 S.W. 74th Court  
Miami, Florida, 33155  
Phone: 305.686.0711  
State of Florida - Authorization No. 1306  
website: www.ddaeng.com

PROFESSIONAL SEAL:

PEDRO J. DUQUESNE P.E. #22764

SUBMITTAL DESCRIPTION / MILESTONE:

**BIT SET**  
October 21, 2016

REVISIONS:

NO.	DESCRIPTION

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BA PROJECT NO.: 15086

SCALE:

DATE:

DRAWING TITLE:

TYPICAL SECTIONS

SHEET NO.

**S-4.01**

