

STRUCTURAL NOTES

GENERAL:
All dimensions shall be verified by contractor at the job site and in case of any discrepancy in drawings, architect and / or engineer shall be notified and obtain their approval before proceeding with work. Contractor shall comply with all the provisions of the 2017 Florida Building Code and the ACI 318-11 specifications. Coordination of the work of all trades (structural, plumbing, electrical, air conditioning and architectural) at the time of erecting the building structure is contractor's responsibility. No additional payments shall be made to the contractor, for the contractor's failure to correct conflicting field conditions after the structure has been erected. The engineers shall not be responsible for, nor have control or charge of construction means. Methods of sequence, or procedures, or for safety precautions and programs. All change orders must be signed and approved by the owners prior to approval by the architect and/or engineer. Structural calculations shall be based on wind velocity of 175 MPH in accordance with ASCE 7-10. Also needs to comply with the 2017 Florida Building Code.

CONCRETE:
Minimum compressive strength for all structural concrete shall be as follows. Minimum of 5 bags of cement per cubic yard of concrete (unless otherwise specified on the plans):

All structural concrete 5000 PSI @ 28 days

Cement shall be portland type I conforming to ASTM 150. Regular weight aggregates shall comply with ASTM C-39 and the 2017 Florida Building Code. Aggregate shall be clean and well graded with manufacturer's instruction. Admixture shall be free of calcium chloride. Provide Approved integral water repellent admixture in all slabs concrete elements at ground level & below grade. Concrete wet cure time of 7 days minimum, ACI 318, section 5.5.1. Segregation of concrete materials and retempered concrete are not allowed.

Contractor to use special form work for all exposed concrete, for providing smooth surface for all exposed concrete areas, including but not limited to exposed cantilever balconies, columns, fin walls and eyebrows.

Provide Volkay or similar waterproofing membrane to cover the foundation, slab and exterior walls of the mikveh up to the DFE (+8.00' N.G.V.D.)

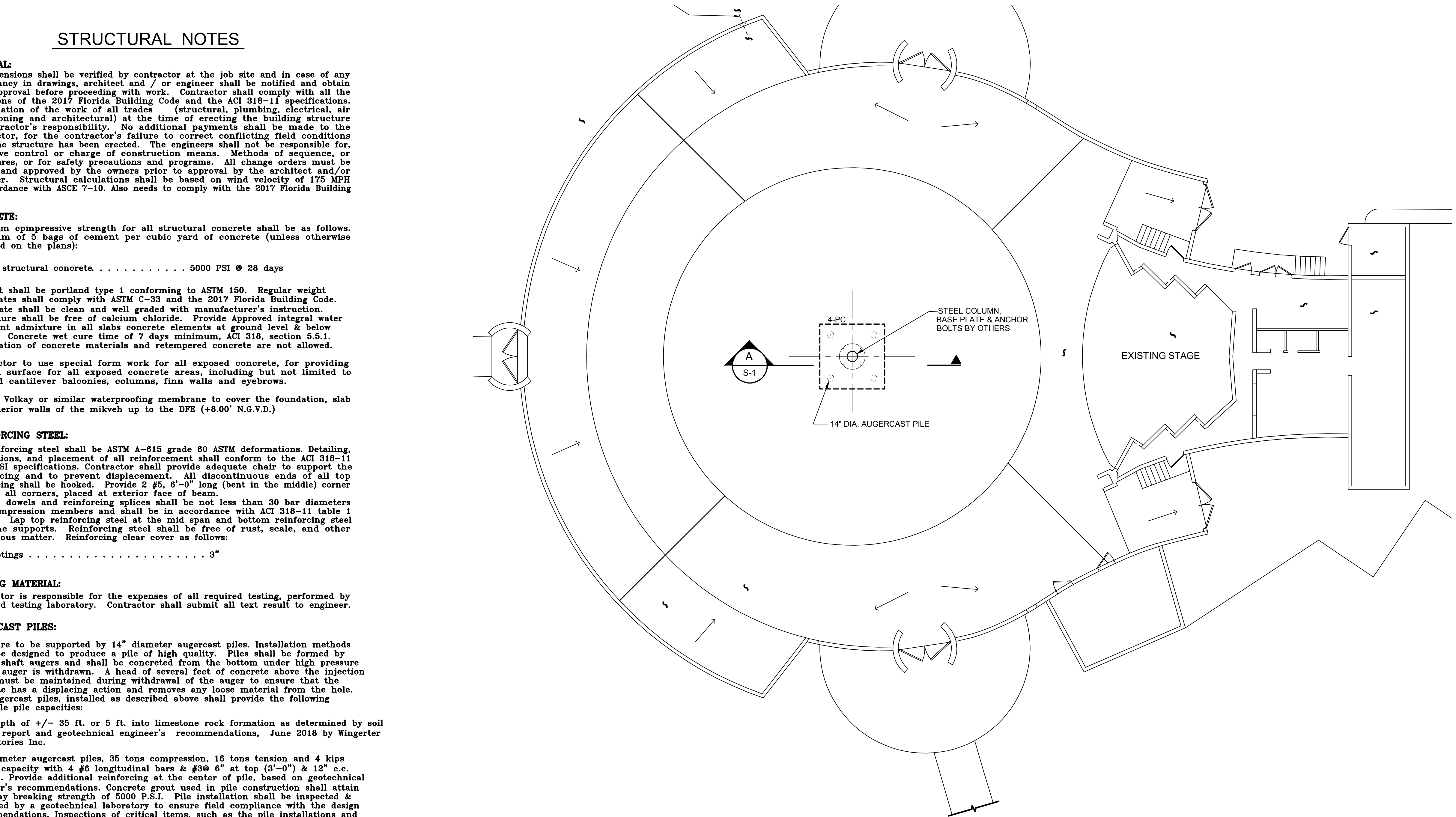
REINFORCING STEEL:
All reinforcing steel shall be ASTM A-615 grade 60 ASTM deformations. Detailing, fabrications, and placement of all reinforcement shall conform to the ACI 318-11 and CRSI specifications. Contractor shall provide adequate chair to support the reinforcing and to prevent displacement. All discontinuous ends of all top reinforcing shall be hooked. Provide 2 #5, 0'-0" long (bent in the middle) corner bars at all corners, placed at exterior face of beam. Column dowels and reinforcing splices shall be not less than 30 bar diameters (for compression members and shall be in accordance with ACI 318-11 table 1 thru 8. Lap top reinforcing steel at the mid span and bottom reinforcing steel over the supports. Reinforcing steel shall be free of rust, scale, and other deleterious matter. Reinforcing clear cover as follows:
Footings 3"

TESTING MATERIAL:
Contractor is responsible for the expenses of all required testing, performed by approved testing laboratory. Contractor shall submit all text result to engineer.

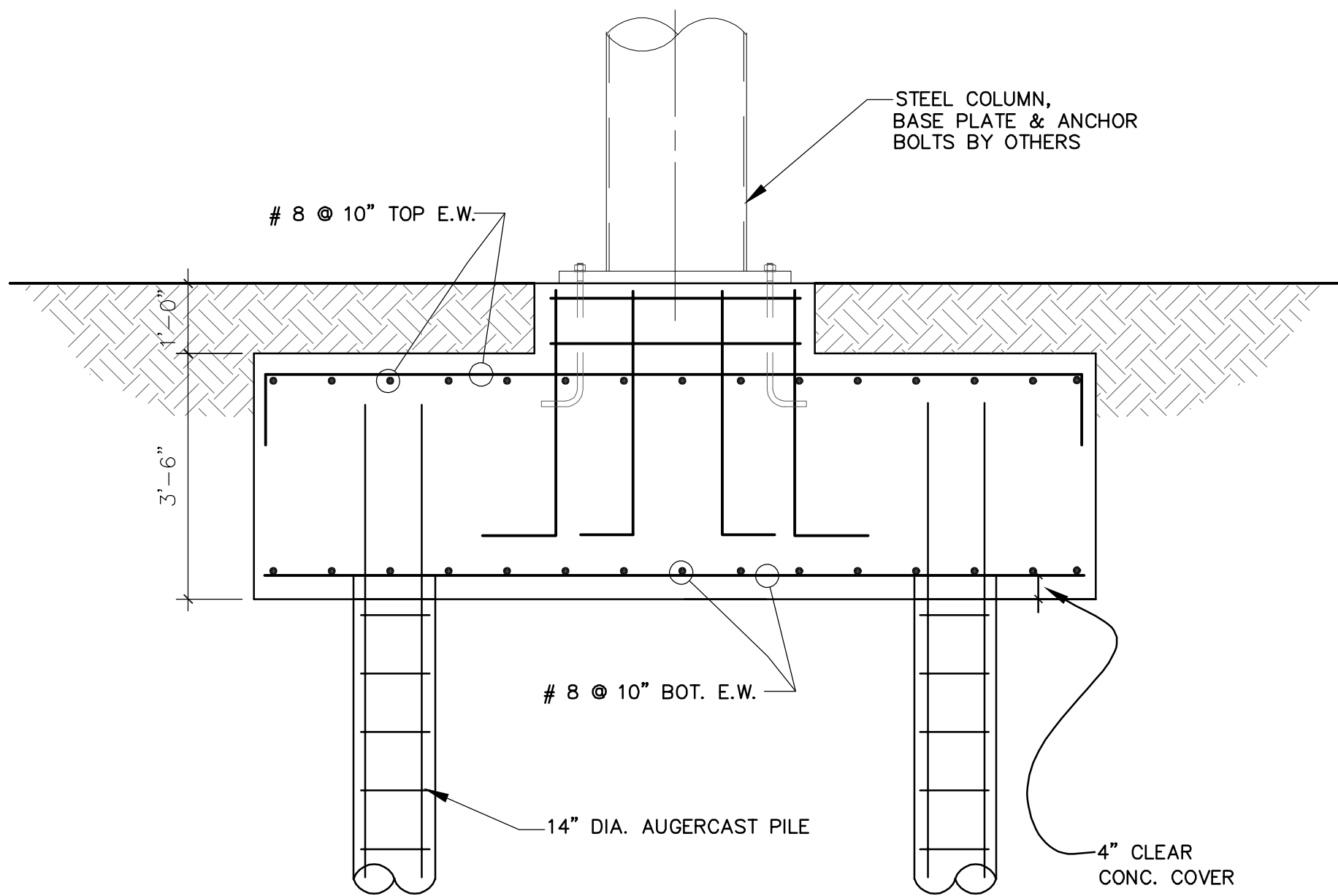
AUGERCAST PILES:
Structure to be supported by 14" diameter augercast piles. Installation methods must be designed to produce a pile of high quality. Piles shall be formed by hollow shaft augers and shall be concreted from the bottom under high pressure as the auger is withdrawn. A head of several feet of concrete above the injection point must be maintained during withdrawal of the auger to ensure that the concrete has a displacing action and removes any loose material from the hole. The augercast piles, installed as described above shall provide the following allowable pile capacities:

Pile depth of +/- 35 ft. or 5 ft. into limestone rock formation as determined by soil boring report and geotechnical engineer's recommendations, June 2018 by Wingerter Laboratories Inc.

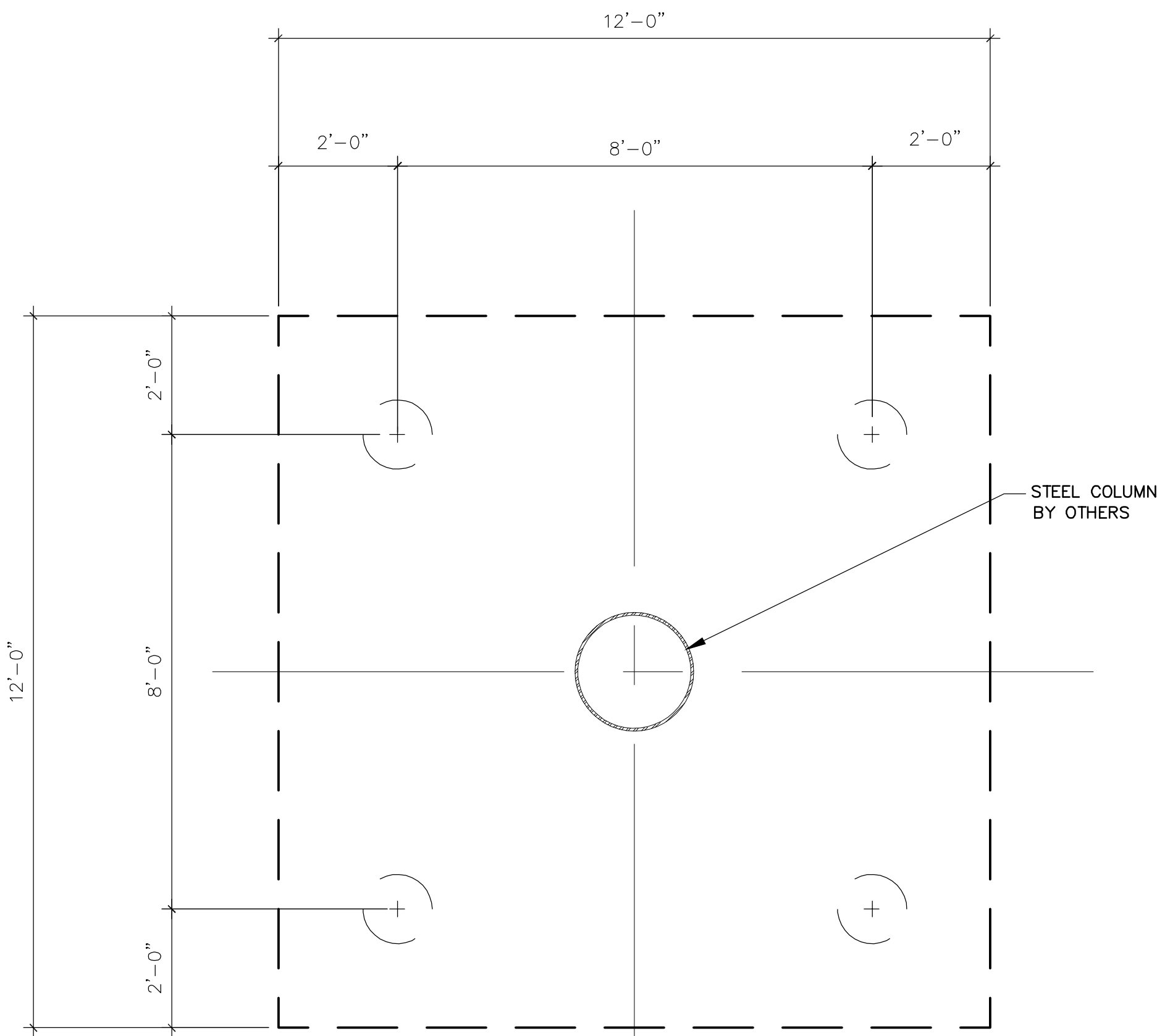
14" diameter augercast piles, 35 tons compression, 16 tons tension and 4 kips lateral capacity with 4 #6 longitudinal bars & #3 @ 6" at top (3'-0") & 12" c.c. balance. Provide additional reinforcing at the center of pile, based on geotechnical engineer's recommendations. Concrete grout used in pile construction shall attain a 28 day breaking strength of 6000 P.S.I. Pile installation shall be inspected & evaluated by a geotechnical laboratory to ensure field compliance with the design recommendations. Inspections of critical items, such as the pile installations and testing are regarded as an integral part of the work required.



FLOOR PLAN
3/32" = 1'-0"

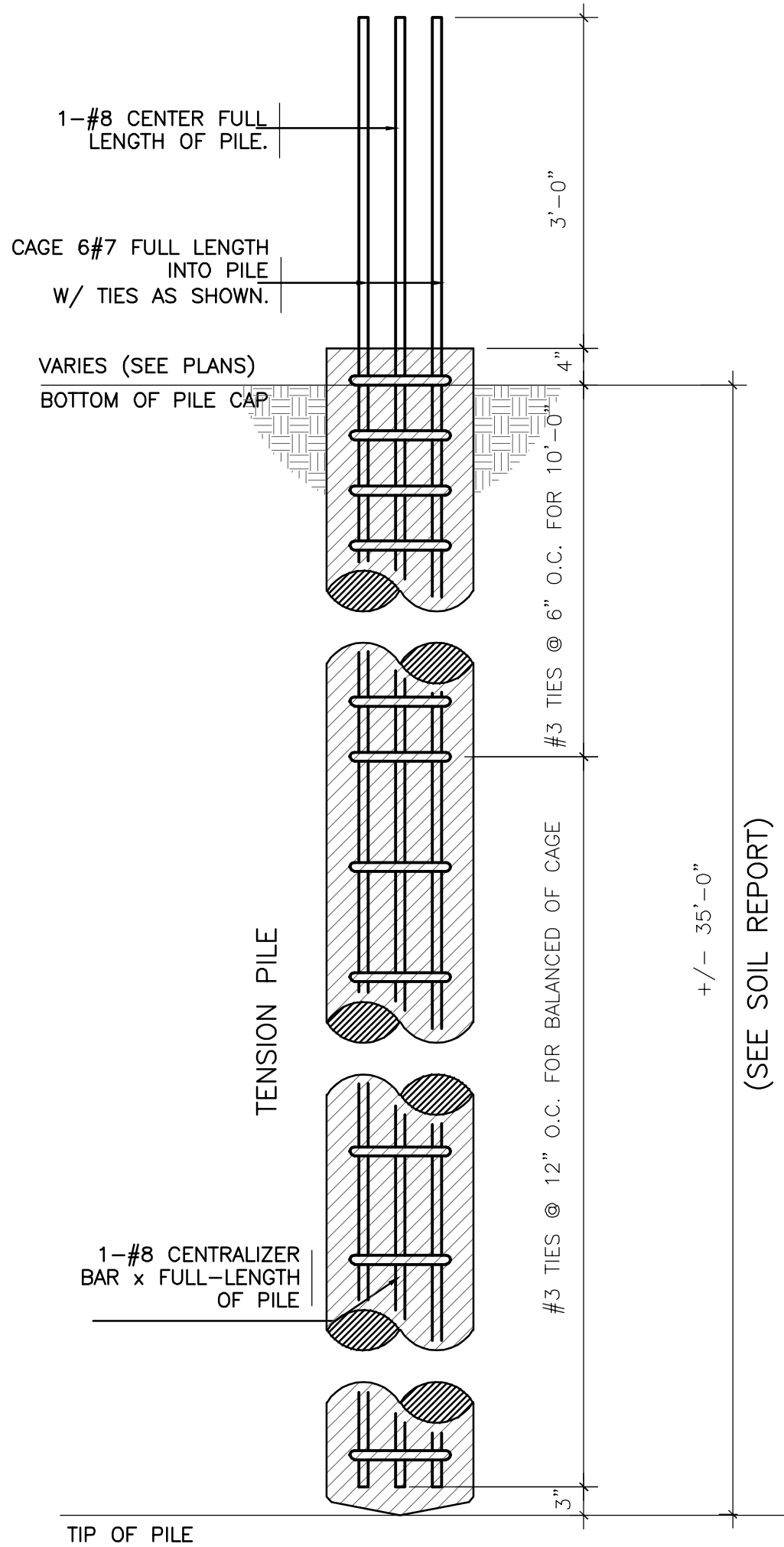


SECTION
SCALE: 1/2" = 1'-0"

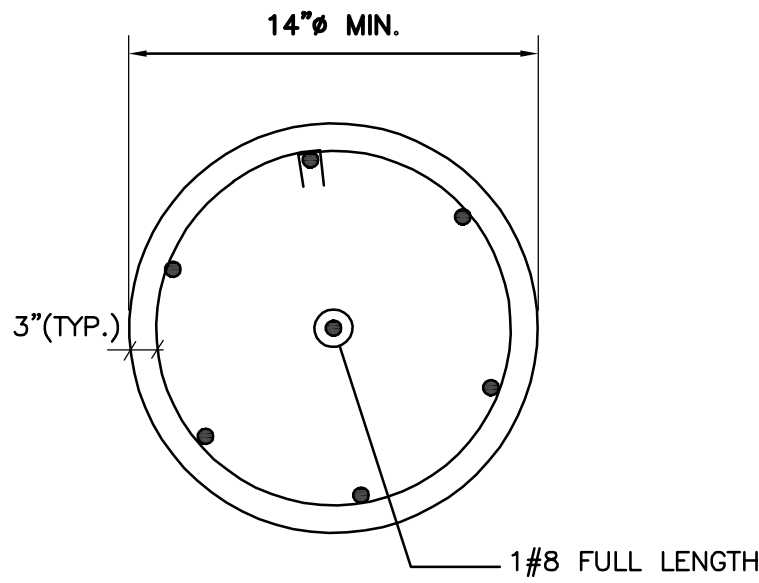


4-PC
DEPTH = 42"
#8 @ 10" C.C. TOP &
BOT. EACH WAY

FOUR PILES CAP
SCALE: 1/2" = 1'-0"



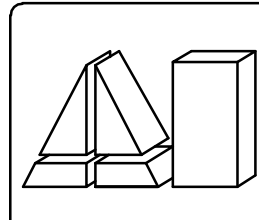
Typ. 14"Ø Augercast Tension Pile
w/ f'c = 5000psi
Capacity in Tension = 35 Tons



PLAN - AUGERCAST PILE
14" DIAMETER MIN ALLOWABLE
FOR TENSION PILES
(35 TONS)
VERT: 6 #7
TIES: #3 @ 6"o/c for 10'-0"
#3 @ 12" o/c Remain
FOR FULL DEPTH OF PILE

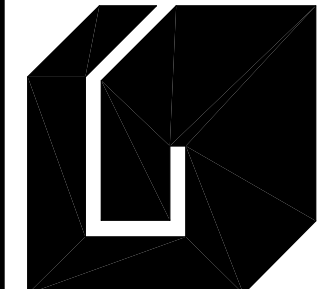
TYPICAL 14" Ø AUGERCAST PILE
NOTE: ALL SPLICES SHALL BE STAGGERED

30% REVIEW SUBMITTAL




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NORTH SHORE BANDSHELL CANOPY
CITY OF MIAMI BEACH
7251 COLLINS AVENUE
MIAMI BEACH, FLORIDA

SHEET TITLE:
STRUCTURAL PLAN,
SECTION, DETAILS,
NOTES

SHEET #
S-1
1

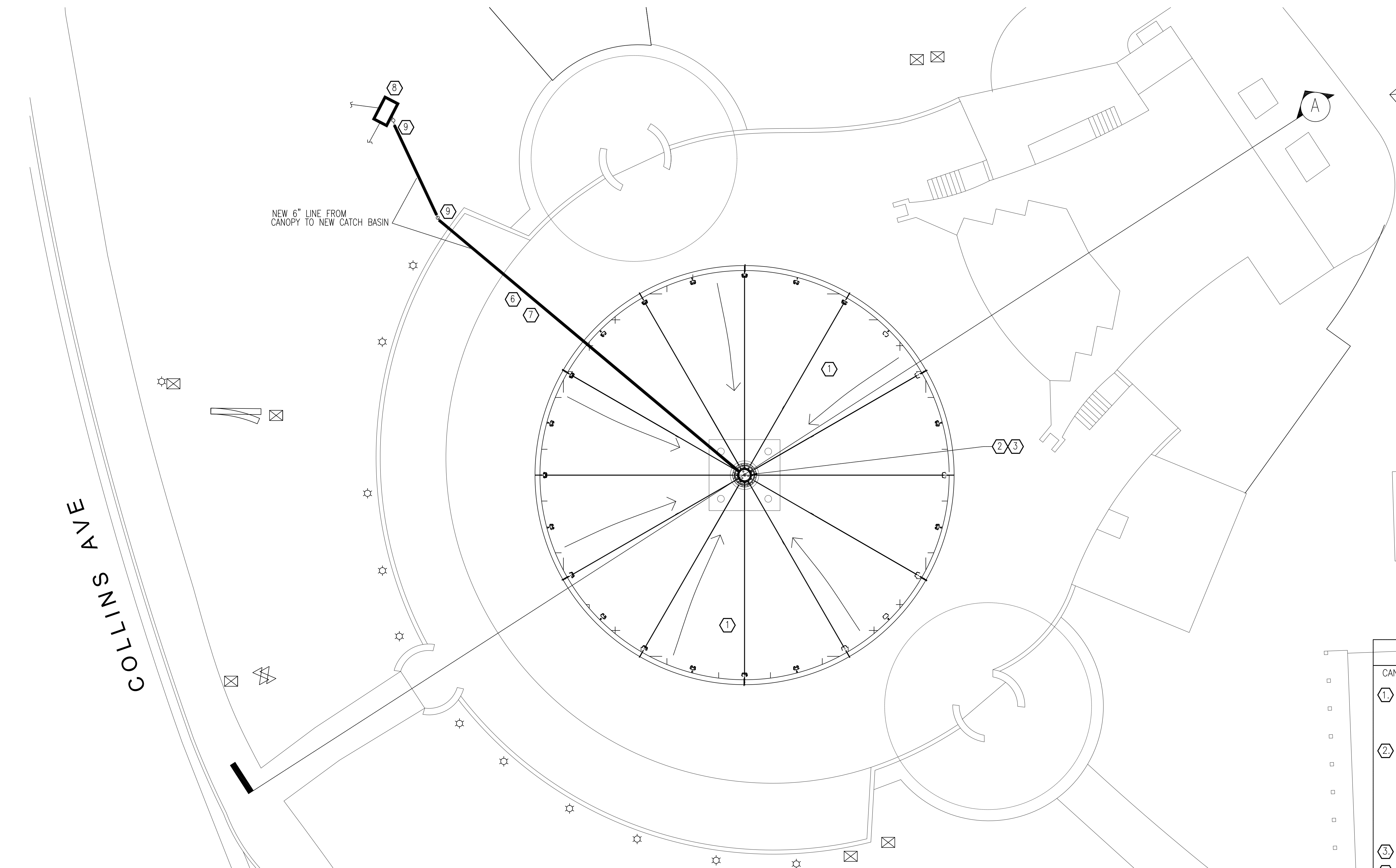
ARCH COAM #
18107

DATE:
3/11/19

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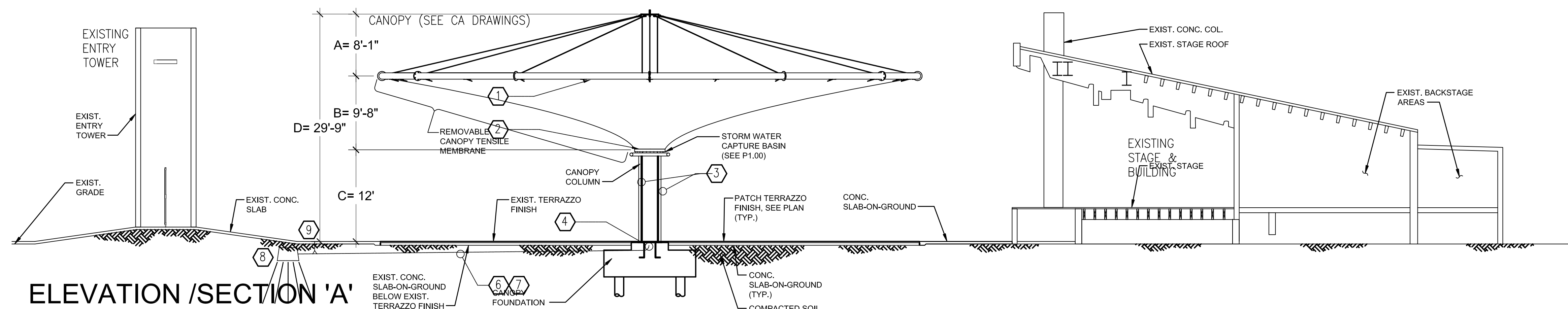
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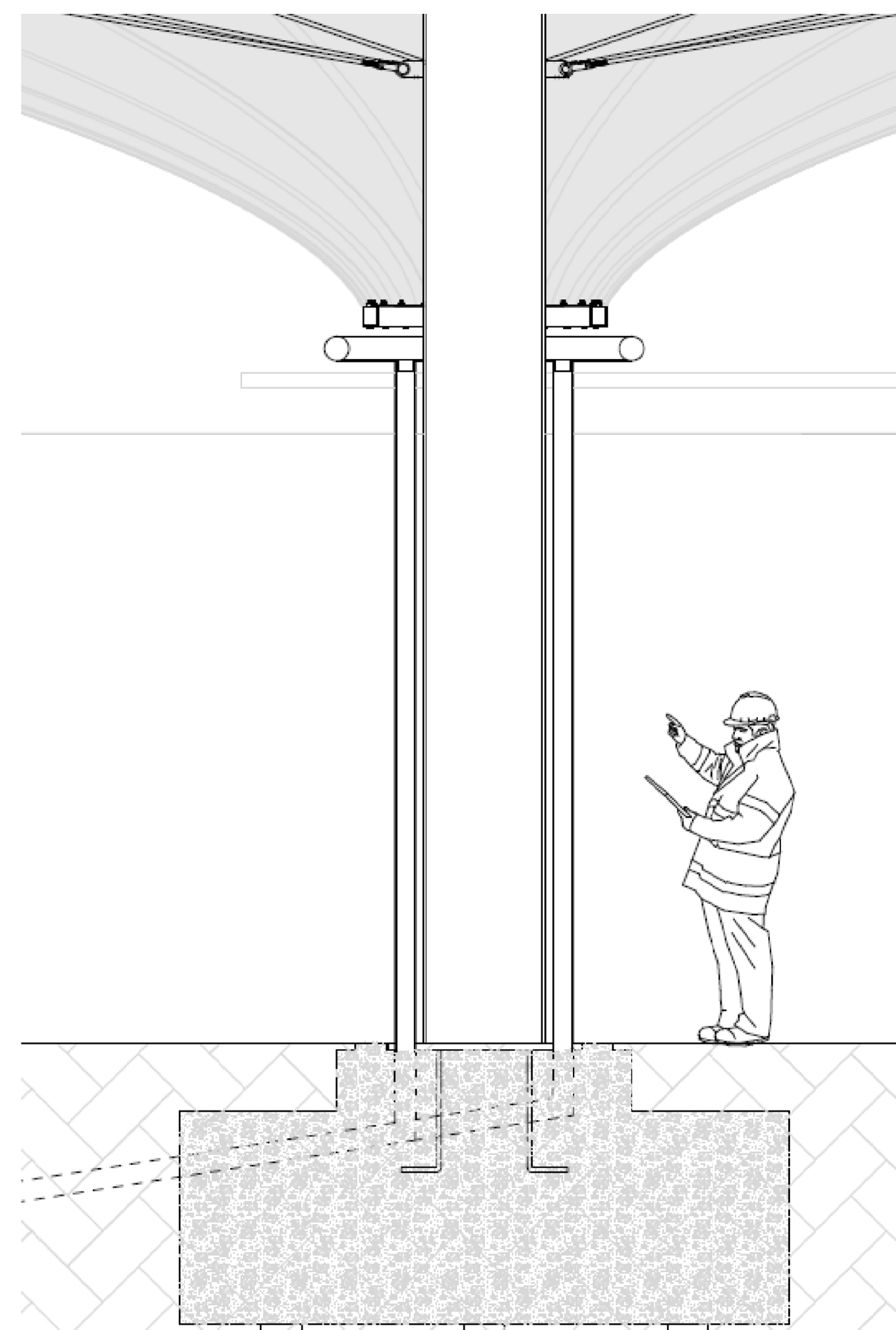
PLUMBING PLAN

SCALE: 1/8" = 1'-0"



ELEVATION /SECTION 'A'

SCALE: 1/8" = 1'-0"



DRAINAGE SYSTEM

NOT TO SCALE

PLUMBING SCOPE OF WORK

1. PROVIDE 2-4" DIA DRAIN PIPES CONNECTED TO STORM WATER COLLECTOR RING AT MAST
2. PROVIDE 6" UNDERGROUND LATERAL FROM BASE OF MAST TO FRENCH DRAIN CATCH BASIN.
3. HORIZONTAL BORE LATERAL UNDER EXISTING CONCRETE & TERRAZZO FLOOR

KEYED NOTES

- CANOPY PLUMBING
1. CANOPY ROOF SLOPE SHALL DIRECT STORM RAIN WATER TO CENTER COLUMN CAPTURE BASIN.
 2. TOP PORTION OF CENTER COLUMN SHALL BE FITTED AND INSTALLED WITH A STORM WATER CAPTURE BASIN ABLE TO DIRECT STORMWATER DRAIN THROUGH DEVICE DOWN TO RISER.
 3. 2-4" DIA DOWNSPOUT
 4. COLUMN RISER CONNECTED TO NEW LATERAL BELOW GRADE.
 5. RESERVED
 6. UNDERGROUND STORMWATER LATERAL SHALL BE INSTALLED USING HORIZONTAL BORING MACHINE METHOD.
 7. HORIZONTAL BORING SHALL EXTEND FROM CATCH BASIN TO COLUMN WITHOUT DISTURBING EXISTING DECK OR CONCRETE
 8. COORDINATE WITH CIVIL DESIGN FOR PROPOSED CATCH BASIN LOCATION AND ACCOMMODATE AS NECESSARY.
 9. PROVIDE GRADE CLEANOUT ON UNDERGROUND LATERAL ADJACENT TO CATCH BASIN.

PLUMBING GENERAL NOTES

1. ALL MATERIALS USED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS UNDER WHICH THE MATERIALS ARE ACCEPTED & APPROVED PER FBC P2609.2 AND PER MANUFACTURER INSTRUCTIONS.
2. ABOVE GROUND STORM WATER PIPE SHALL CONFORM TO STANDARDS LISTED IN TABLE FBC P3002.1(1). UNDERGROUND PIPE SHALL CONFORM TO STANDARDS LISTED IN TABLE FBC P3002.1(2).
3. DRAINAGE FITTINGS: SHALL HAVE A SMOOTH INT WATERWAY OF SAME DIA AS PIPING SERVED. FITTINGS SHALL CONFORM TO TYPE OF PIPE. FITTINGS SHALL HAVE NO LEDGES, SHOULDERS OR REDUCTIONS WHICH RETARD OR OBSTRUCT FLOW PER FBC P3002.3.1.
4. HORIZONTAL DRAINAGE PIPING: SHALL BE SLOPED PER FBC P3005.3.
5. PER FBC P2603.4, PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A RELIEVING ARCH, OR, A PIPE SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. SLEEVE SHALL BE 2 SIZES GREATER THAN PIPE PASSING THROUGH WALL.
6. DRAINAGE PIPE CLEANOUTS (CO) SHALL COMPLY WITH FBC P3005.2.1 THROUGH P3005.2.11 PER FBC P3005.2.

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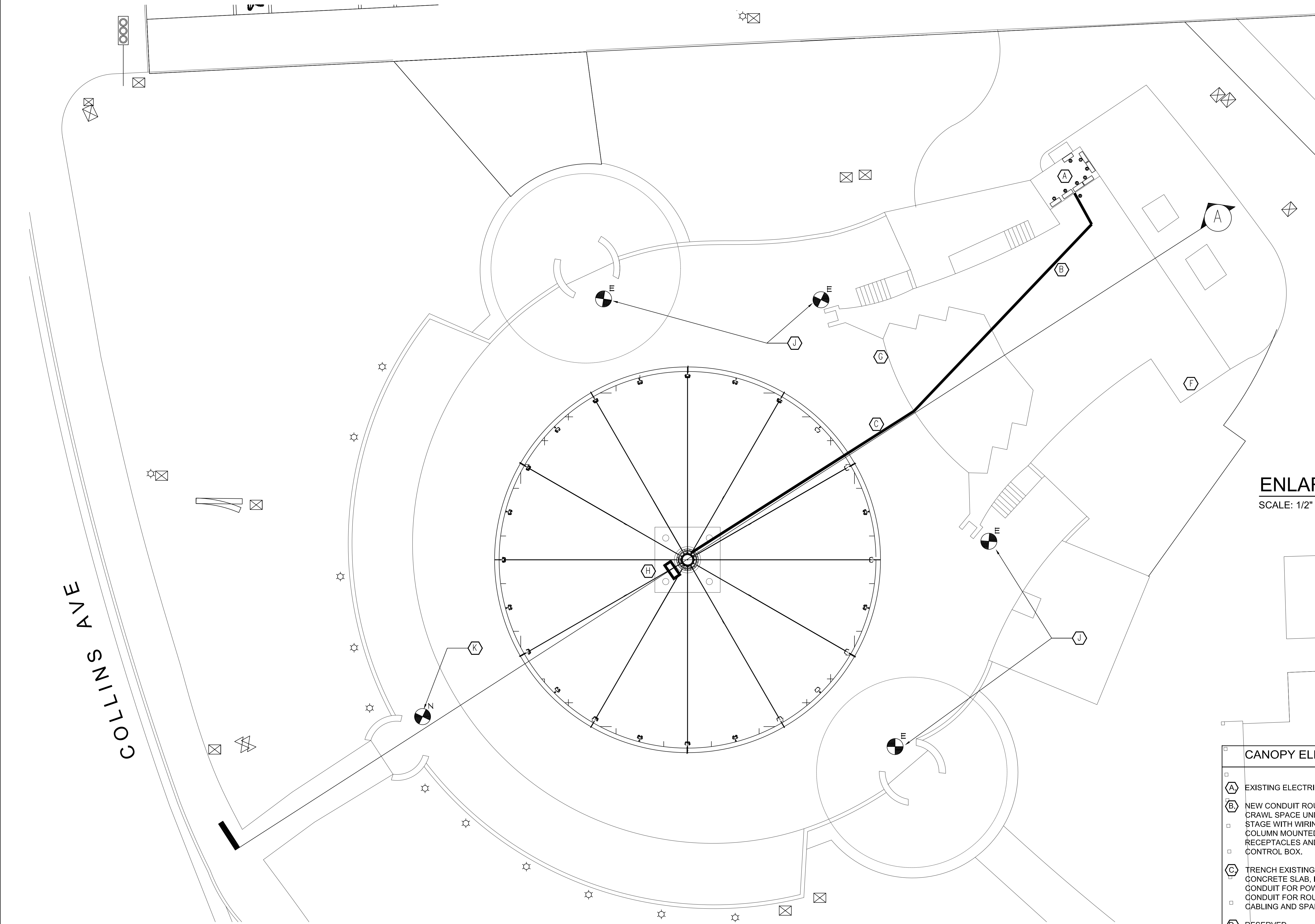
**NORTH SHORE BANDSHELL CANOPY
CITY OF MIAMI BEACH**

**7251 COLLINS AVENUE
MIAMI BEACH, FLORIDA**

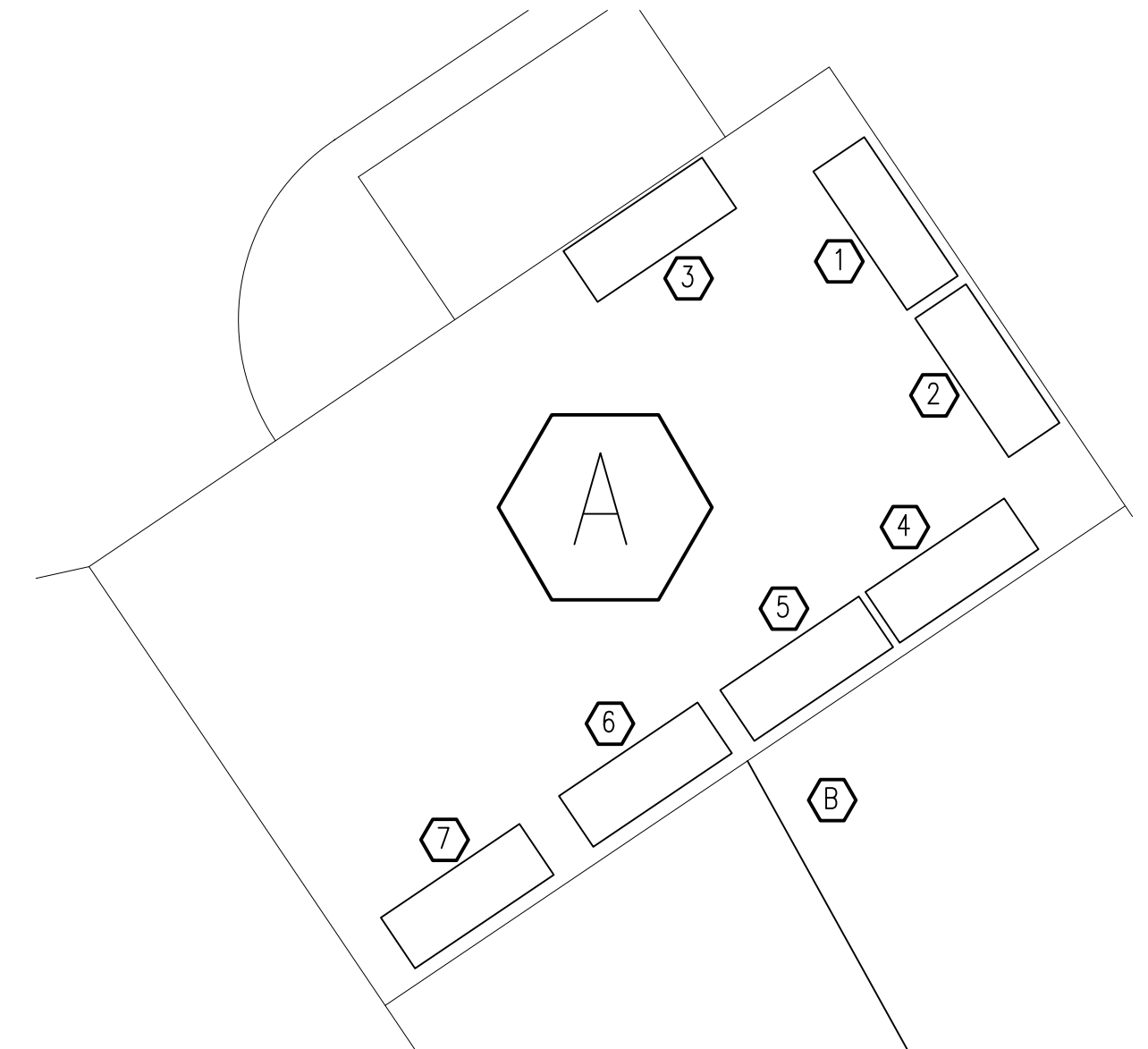
**SITE PLAN -
PLUMB & NOTES**

P-1

SHEET TITLE:
DATE: 3/11/19
ARCH. CO. # 18107



ELECTRICAL RM. KEYED NOTES	
①	EXISTING 1200 AMP SERVICE DISCONNECT
②	EXISTING CT CABINET
③	EXISTING 1200 AMP DISTRIBUTION PANEL MDP
④	EXISTING PANEL A
⑤	EXISTING PANEL TH
⑥	EXISTING CRESTRON RELAY PANEL
⑦	EXISTING DIMMING PANEL D

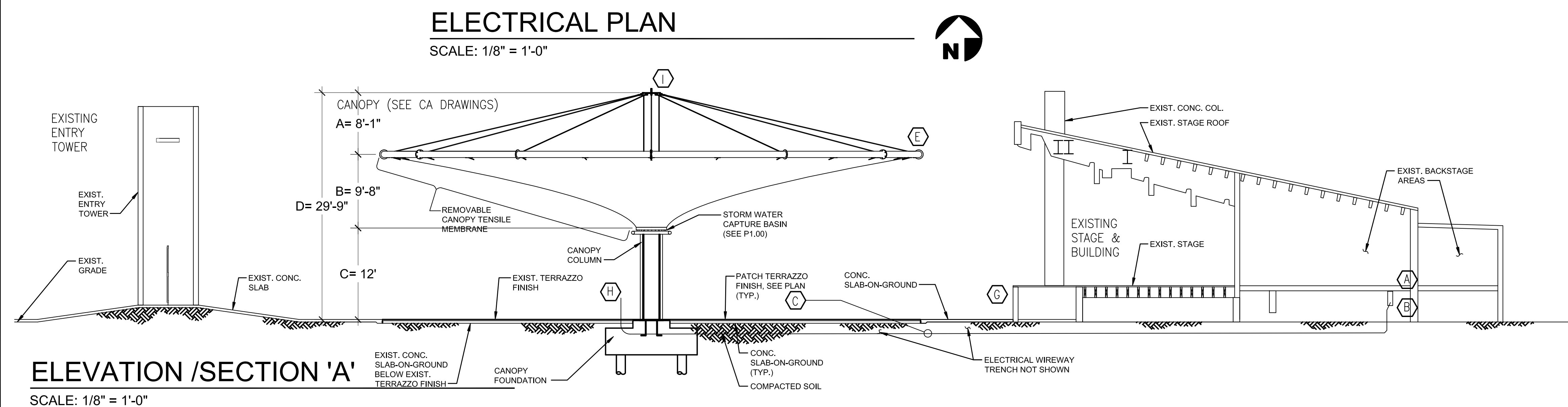


ENLARGED EXIST ELECTRICAL RM
SCALE: 1/2" = 1'-0"



CANOPY ELECTRICAL NOTES	
①	EXISTING ELECTRICAL ROOM.
②	NEW CONDUIT ROUTED WITHIN CRAWL SPACE UNDER BUILDING AND STAGE WITH WIRING TO SERVE NEW COLUMN MOUNTED 30 AMP RECEPTACLES AND AV - LIGHTING CONTROL BOX.
③	TRENCH EXISTING TERRAZZO AND CONCRETE SLAB. INSTALL 1" CONDUIT FOR POWER AND 2" CONDUIT FOR ROUTING CONTROL CABLING AND SPARE 2" CONDUIT.
④	RESERVED
⑤	SOLAR POWER BATTERY/LIGHTS
⑥	EXISTING HOUSE LIGHTING CONTROL BOARD LOCATION.
⑦	CRAWL SPACE ACCESS PANEL AT FACE OF STAGE.
⑧	(10) ELECTRICAL POWER RECEPTACLES AT BASE OF CANOPY COLUMN FOR OPERATOR USE TO ACCOMMODATE ACCENT LIGHTS, SOUND SYSTEM COMPONENTS, AND ANY OTHER TEMPORARY SET UPS DURING A PRESENTATION. (2) 30 AMP L15-30R RECEPTACLES.
⑨	PROVIDE CANOPY WITH LIGHTNING PROTECTION SYSTEM.
⑩	REPLACE EXIST EXIT LIGHT WITH BATTERY BACKUP COMBO EXIT/EMERGENCY LIGHT (TYP OF 4)
⑪	NEW BATTERY BACKUP COMBO EXIT/EMERGENCY LIGHT (TYP OF 1)

ELECTRICAL SCOPE OF WORK	
CANOPY ELECTRICAL	
INSTALL POWER FOR OUTLETS INDICATED. POWER TO BE FED FROM EXISTING PANELS AND CONTROLS TO BE INTERFACED WITH EXISTING LIGHTING CONTROL BOARD. PANEL TH HAS AVAILABLE SPACE TO ADD THE BREAKERS NEEDED FOR THE NEW LOADS.	
TO BE INCLUDED IN CONTRACT	
SOLAR LIGHTING: FLEXIBLE SOLAR PANELS ON THE CANOPY TENSILE MEMBRANE ALONG WITH NECESSARY COMPONENTS TO PROVIDE FUNCTIONING SYSTEM FOR THE COLLECTION, ELECTRICAL STORAGE AND ELECTRICAL USE ON SITE WITH CONNECTION TO THE UTILITY ELECTRICAL POWER GRID TO PROVIDE POWER WHEN STORED ELECTRICITY IS DEPLETED.	
LIGHTNING PROTECTION: SYSTEM SHALL INCLUDE TOPSIDE ANTENNA AT CROWN OF STEEL POLE MAST, GROUNDING AT PILE CAP FOUNDATION REINFORCEMENT STEEL	



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**NORTH SHORE BANDSHELL CANOPY
CITY OF MIAMI BEACH**
7251 COLLINS AVENUE
MIAMI BEACH, FLORIDA

**SITE PLAN -
ELECT & NOTES**
SHEET # **E-1**
ARCH. COORD. # 18107

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FROM STAGE, LOOKING SOUTHWEST



EXTERIOR, LOOKING SOUTH



EXTERIOR, LOOKING EAST



FROM STAGE, LOOKING WEST



FROM 73RD STREET ENTRY TOWER, LOOKING SOUTHEAST



FROM COLLINS ENTRY TOWER, LOOKING EAST

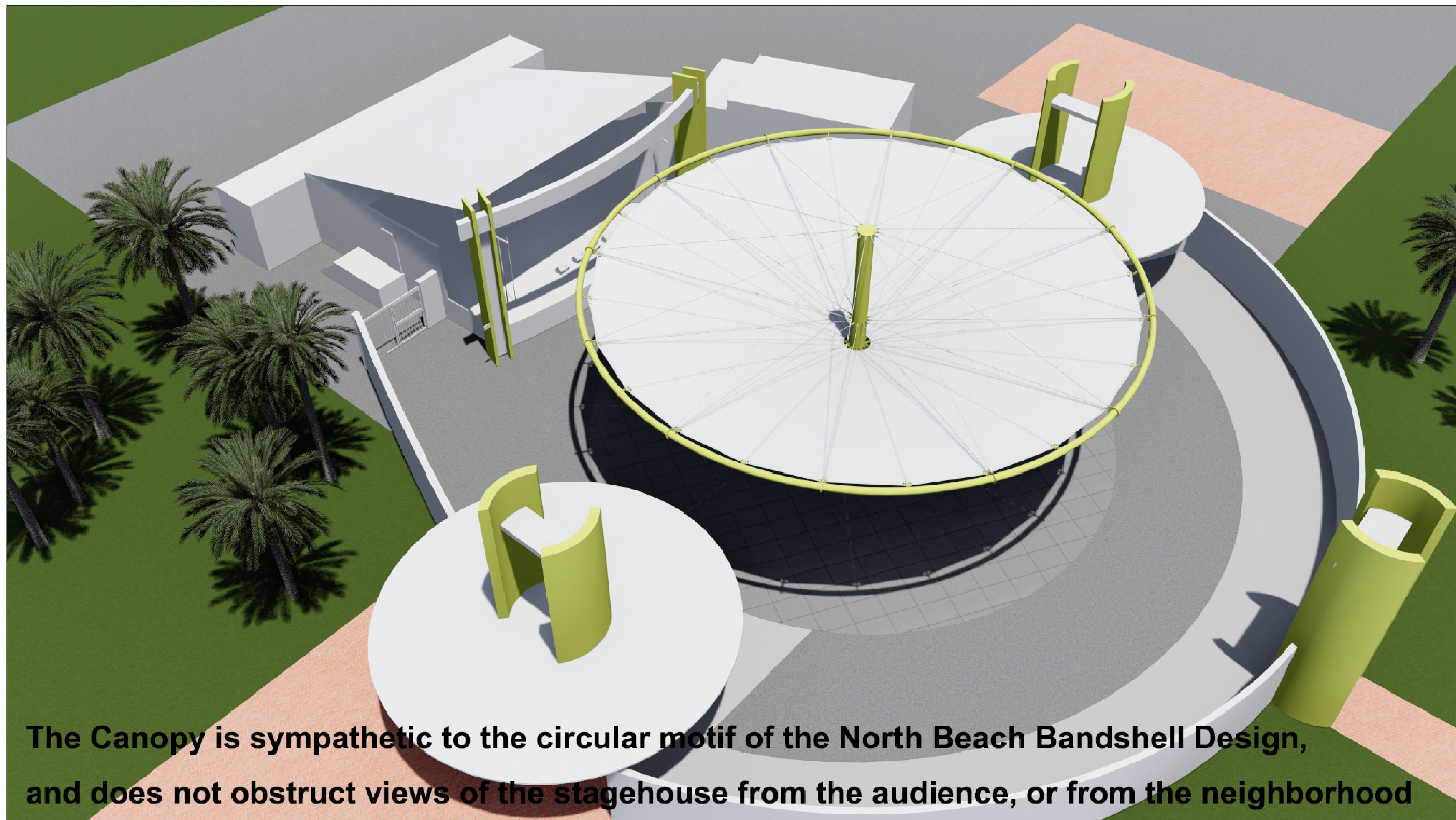
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<p>SHEET # PH-1</p>	<p>SHEET TITLE: COLOR PHOTOS EXIST BLDG</p>
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The Canopy is sympathetic to the circular motif of the North Beach Bandshell Design, and does not obstruct views of the stagehouse from the audience, or from the neighborhood