FRANCIS MARION UNIVERSITY

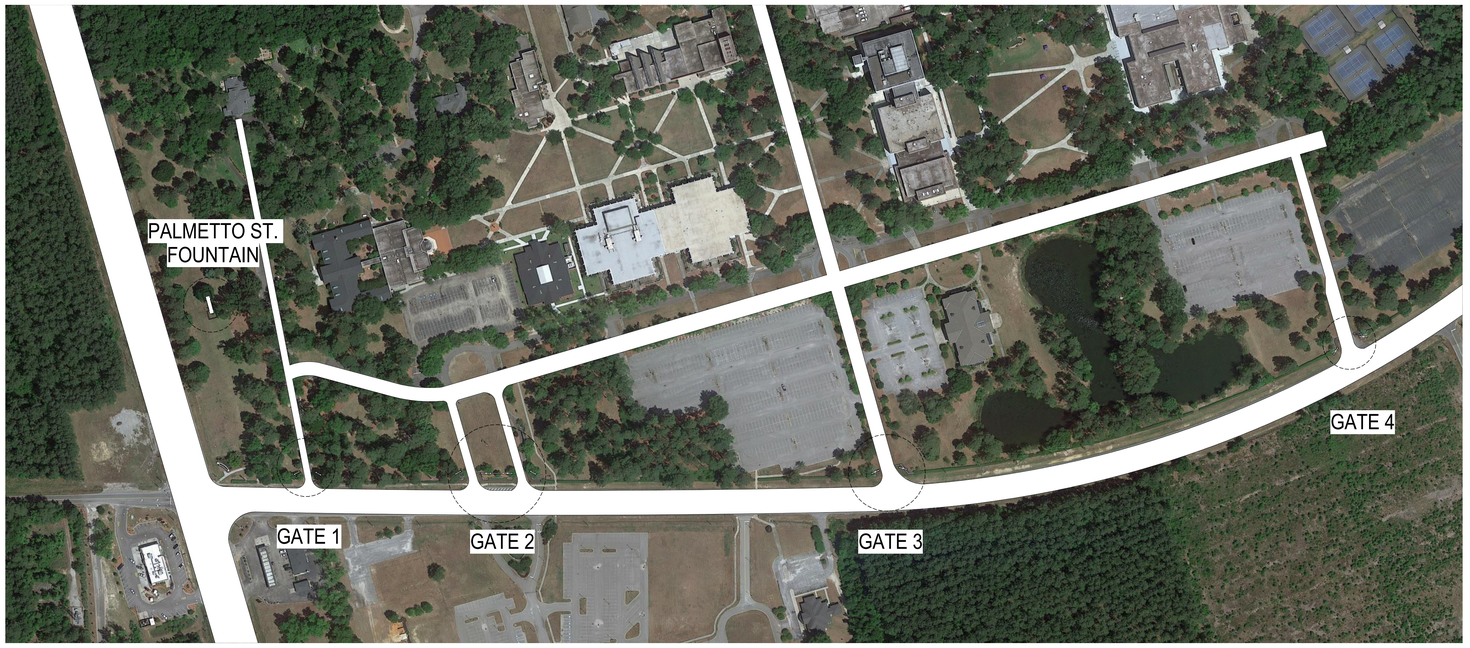
ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

Issue Date/ Description:

MPS Project No: 023087.00

Agency Review ID: H18-9583-SG-E



OWNER

FRANCIS MARION UNIVERSITY
4822 E PALMETTO STREET
FLORENCE, SOUTH CAROLINA 29506
843.661.1488.
taylor.hucks@fmarion.edu

Taylor L Hucks

ARCHITECT

McMILLAN PAZDAN SMITH ARCHITECTURE
1316 WASHINGTON STREET
COLUMBIA, SOUTH CAROLINA 29201
803.730.7014
state@mcmillanpazdansmith.com

J. Sanders Tate

CIVIL

ERVIN ENGINEERING
341 W EVANS STREET
FLORENCE, SC 29501
843.662.4941
bill@ervinengineering.com

Bill Ervin

ELECTRICAL

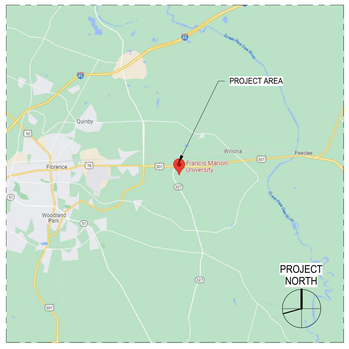
BELKA ENGINEERING ASSOCIATES.INC
2519A PLATT SPRINGS ROAD
WEST COLUMBIA, SC, 29169
803.731.0650
cstringfield@bea-consulting.com

Cliff Stringfield

LANDSCAPE

GRIMBALL COTTERILL
600 BELTLINE BLVD.
COLUMBIA, SC 29205
803.738.9525
mark@grimballcotterill.com

T. Mark Cotterill



SITE MAP

VICINITY MAP

DRAWING LIST

SHEET NO	SHEET NAME
GENERAL	
G001	COVER SHEET
CIVIL	
C100	SITE SURVEY
ARCHITECTURAL	
A010	EXISTING SITE PLAN
A011	DEMOLITION SITE PLAN
A012	ARCHITECTURAL SITE PLAN
A100	PALMETTO ST. PLAN AND ELEVATION - BASE BID
A102	PALMETTO ST. PLAN, ELEVATION AND SECTION - ALTERNATE 1
A110	GATE 1 PLAN AND ELEVATIONS
A120	GATE 2 PLAN AND ELEVATIONS
A121	GATE 2-2 PLAN AND ELEVATIONS
A130	GATE 3 PLANS AND ELEVATIONS
A140	GATE 4 PLANS AND ELEVATIONS
A330	WALL SECTIONS
A331	WALL SECTIONS
ELECTRICAL	
E001	ELECTRICAL NOTES & LEGENDS
E101	ELECTRICAL GATE PLANS
E102	ELECTRICAL GATE PLANS
FOUNTAIN	
F1	ENTRANCE SIGN FOUNTAIN FEATURE
F2	ENTRANCE SIGN FOUNTAIN FEATURE
F3	ENTRANCE SIGN FOUNTAIN FEATURE
IRRIGATION	
I01	IRRIGATION PLAN
I02	IRRIGATION DETAILS
LANDSCAPE	
L01	TREE REMOVAL PLANS
L02	PLANTING PLANS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

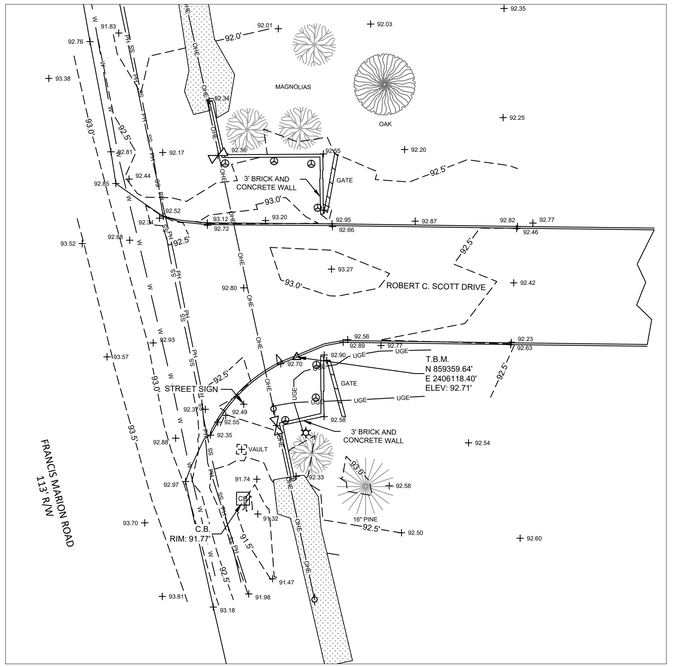
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

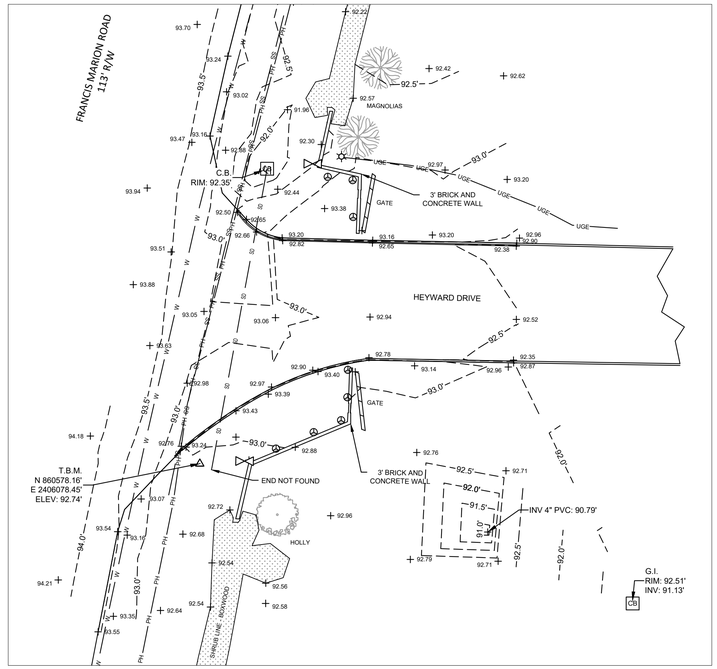
COVER SHEET

SHEET NO. G001

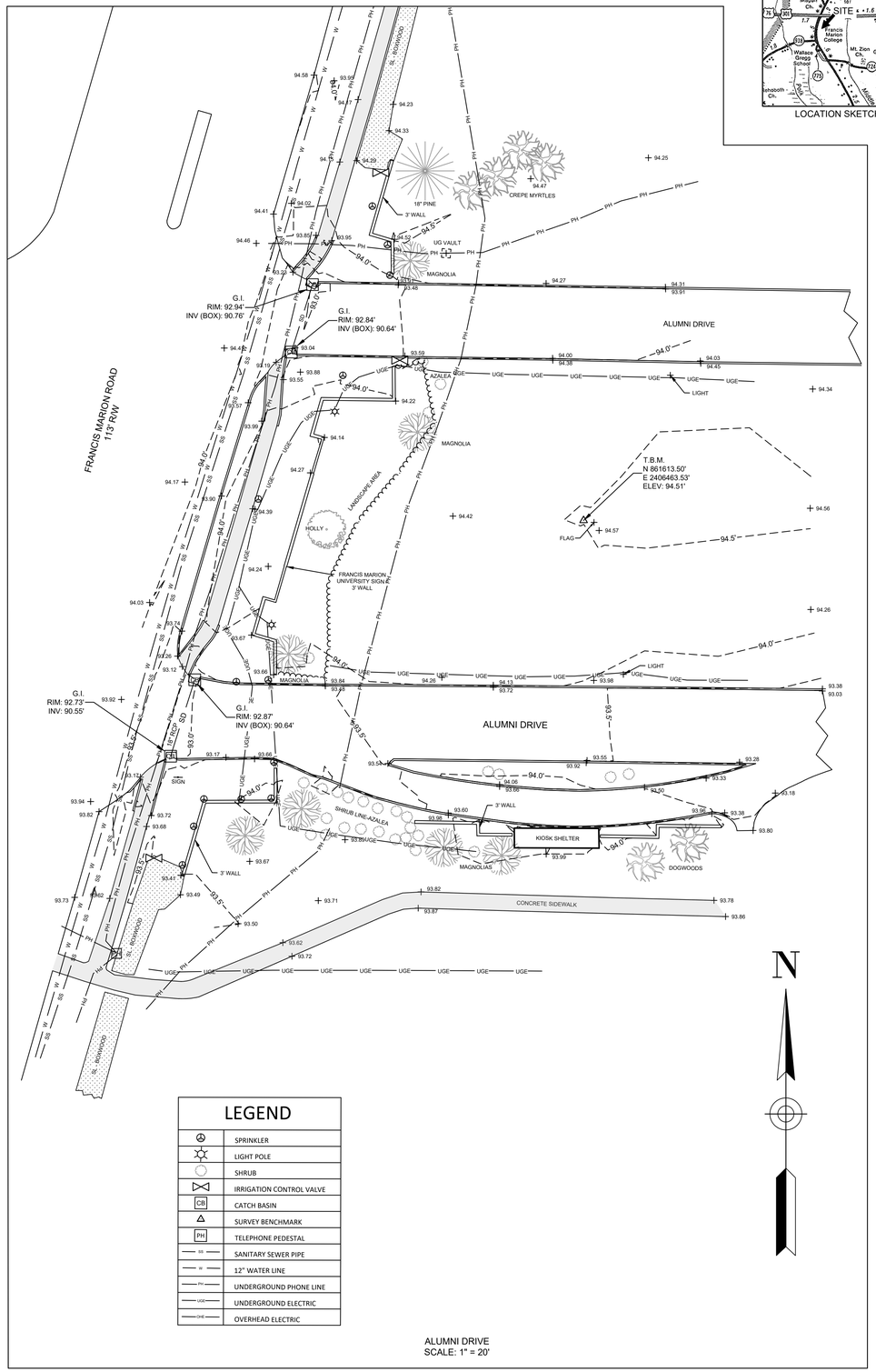
PROJ. NO. 023087.00



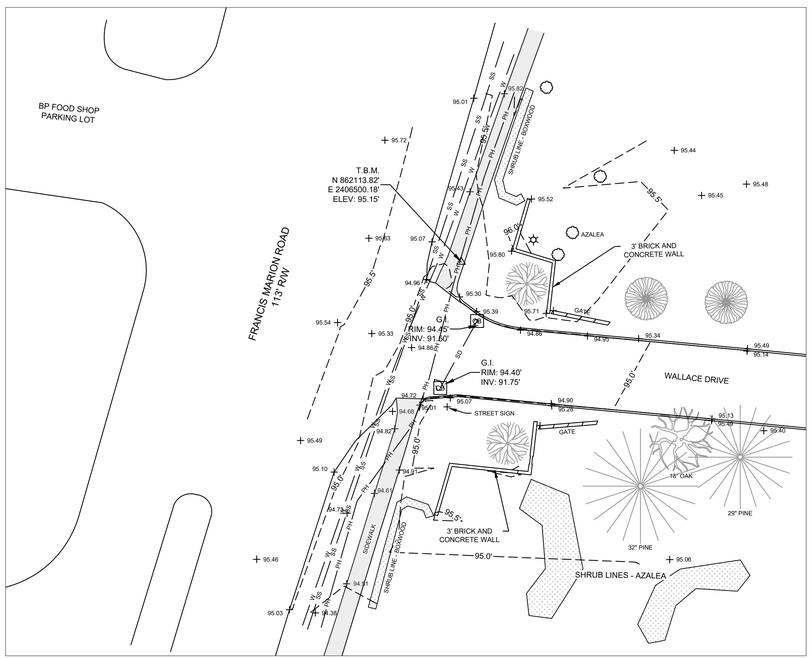
ROBERT C. SCOTT DRIVE
SCALE: 1" = 20'



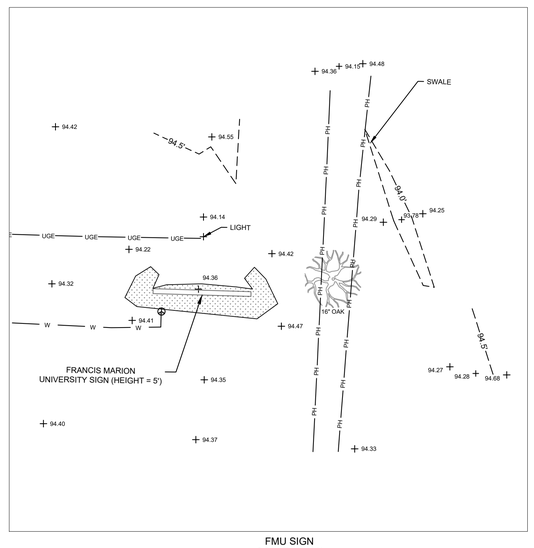
HEYWARD DRIVE
SCALE: 1"=20'



ALUMNI DRIVE
SCALE: 1" = 20'



WALLACE DRIVE
SCALE: 1"=20'



FMU SIGN
SCALE: 1"=20'

LEGEND

	SPRINKLER
	LIGHT POLE
	SHRUB
	IRRIGATION CONTROL VALVE
CB	CATCH BASIN
	SURVEY BENCHMARK
PH	TELEPHONE PEDESTAL
SS	SANITARY SEWER PIPE
W	12" WATER LINE
PH	UNDERGROUND PHONE LINE
UGE	UNDERGROUND ELECTRIC
OHE	OVERHEAD ELECTRIC

ERVIN ENGINEERING
ERVIN ENGINEERING CO., INC.
P.O. BOX 3 - 341 WEST EVANS ST.
FLORENCE, S.C. 29503
PHONE:(843) 662-4941
WWW.ERVINENGINEERING.COM

SOUTH CAROLINA FLORENCE COUNTY

PLAT

TOPOGRAPHIC SURVEY OF ENTRANCE GATES FOR

FRANCIS MARION UNIVERSITY

INCLUDES WALLACE DRIVE, ALUMNI DRIVE, HEYWARD DRIVE, ROBERT C. SCOTT DRIVE, AND THE SIGN FRONTING PALMETTO ST.

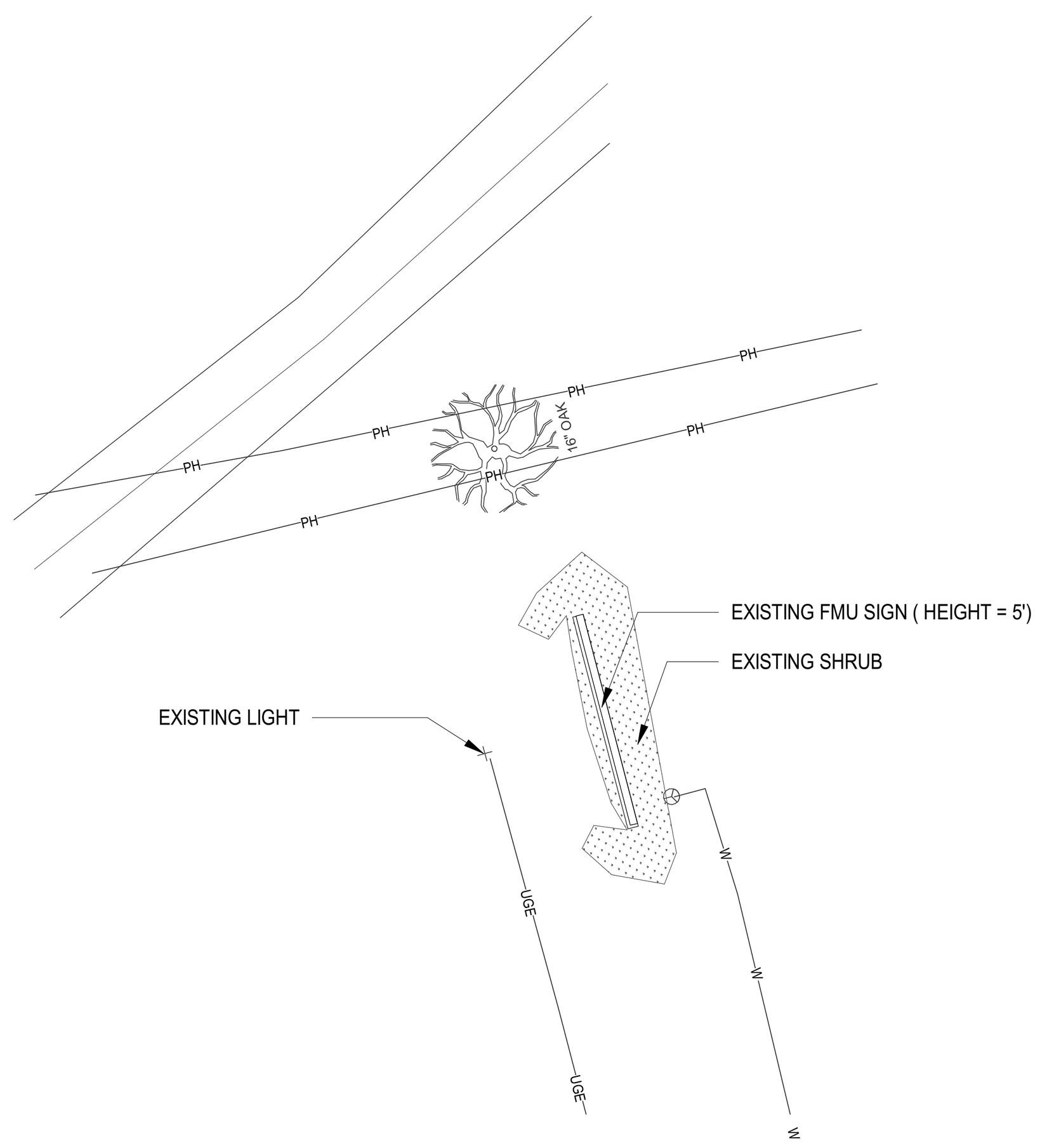
I HEREBY STATE THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARDS OF PRACTICE MANUAL FOR SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS A SURVEY AS SPECIFIED THEREIN; ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN. WE ALSO STATE THAT TO THE BEST OF OUR KNOWLEDGE AND IN OUR PROFESSIONAL OPINION THE REFERENCE PROPERTY DOES NOT LIE IN A 100-YEAR FLOOD ZONE AS SHOWN ON FEMA MAP 45041C 0158E & 45041C 0159E DATED 12/16/2014.

20 0 20
SCALE: 1"=20'

DRAWN BY:	KMA		
DATE:	06/19/2023		
REVISED BY:			
REV. DATE:			

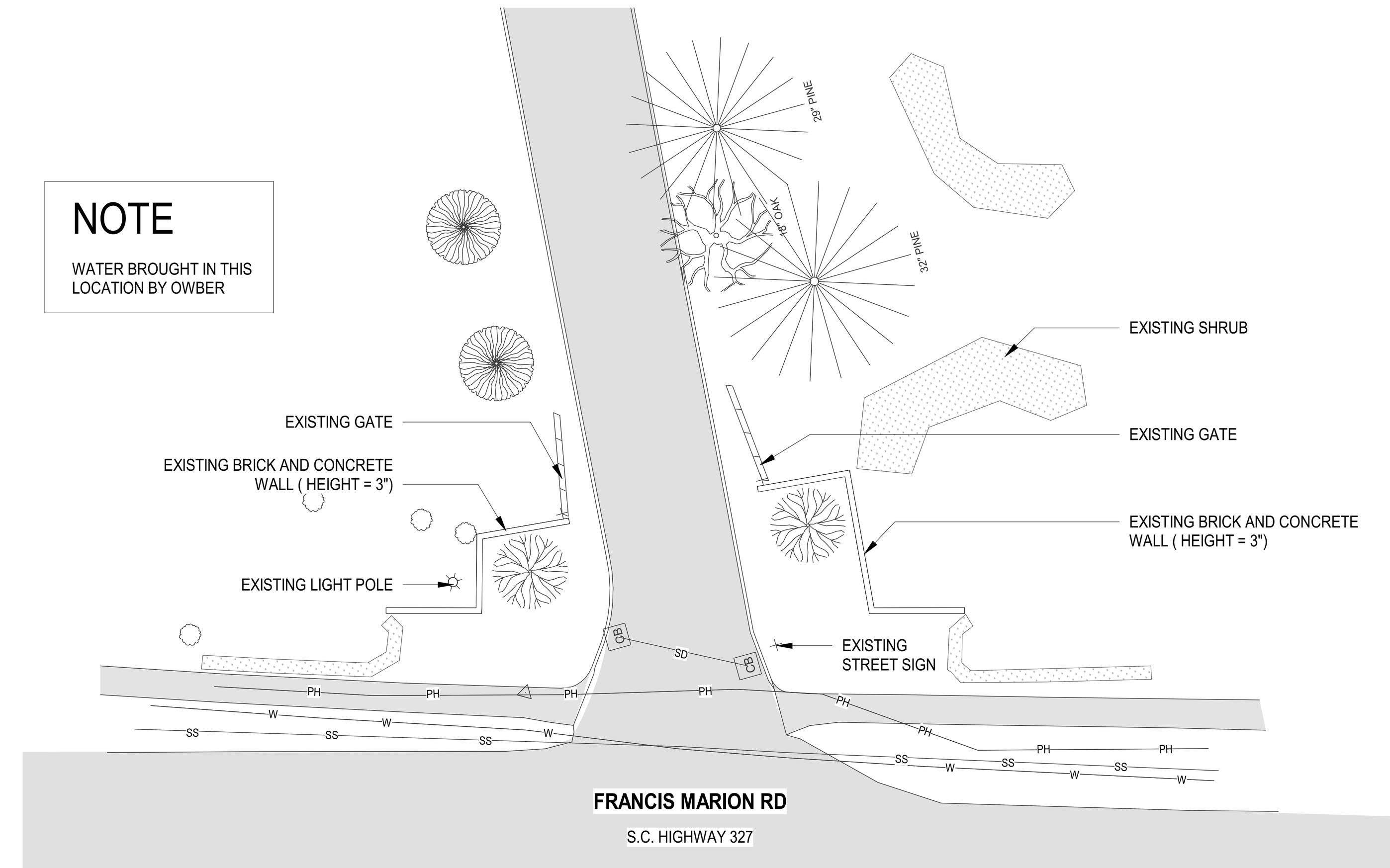
SOUTH CAROLINA ERVIN ENGINEERING COMPANY INC. NO. C00053 CERTIFICATE OF AUTHORITY

SOUTH CAROLINA REGISTERED PROFESSIONAL LAND SURVEYOR REGISTRATION NUMBER 23830 JACOB R. ERVIN, JR.



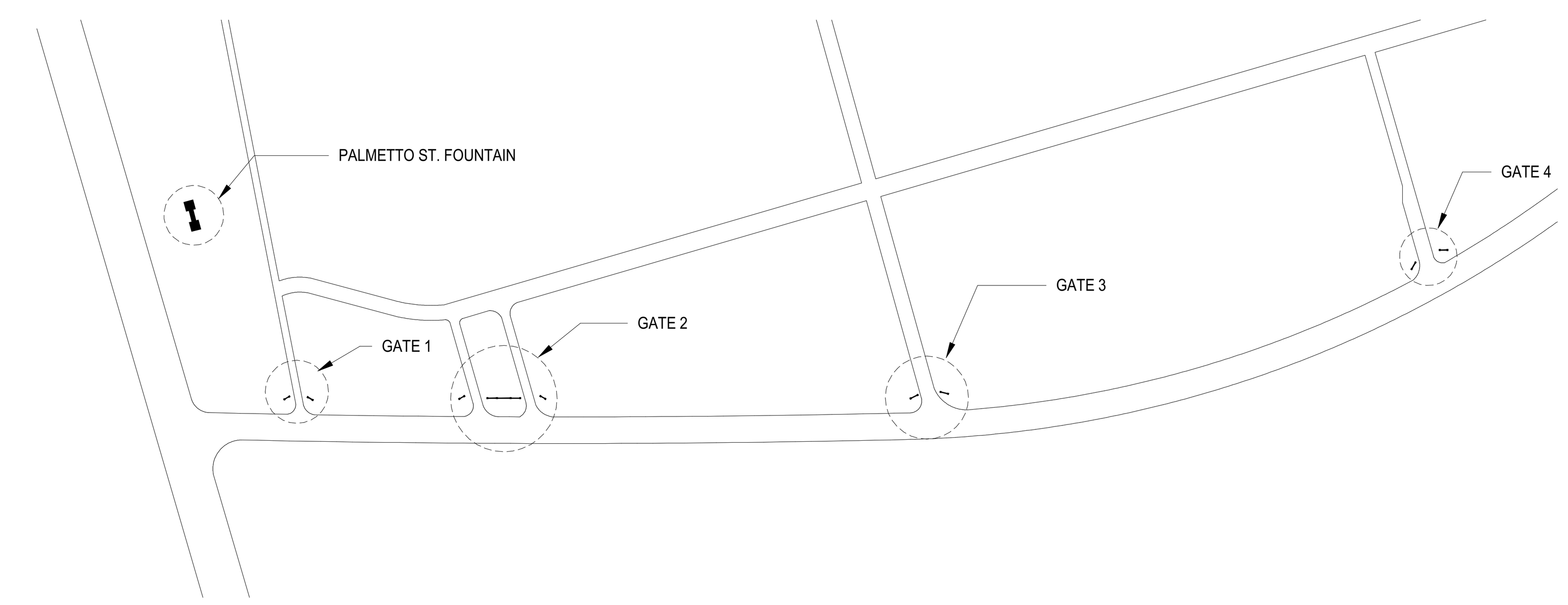
D5 A010 **PALMETTO STREET - EXISTING SITE PLAN**
1" = 20'-0"

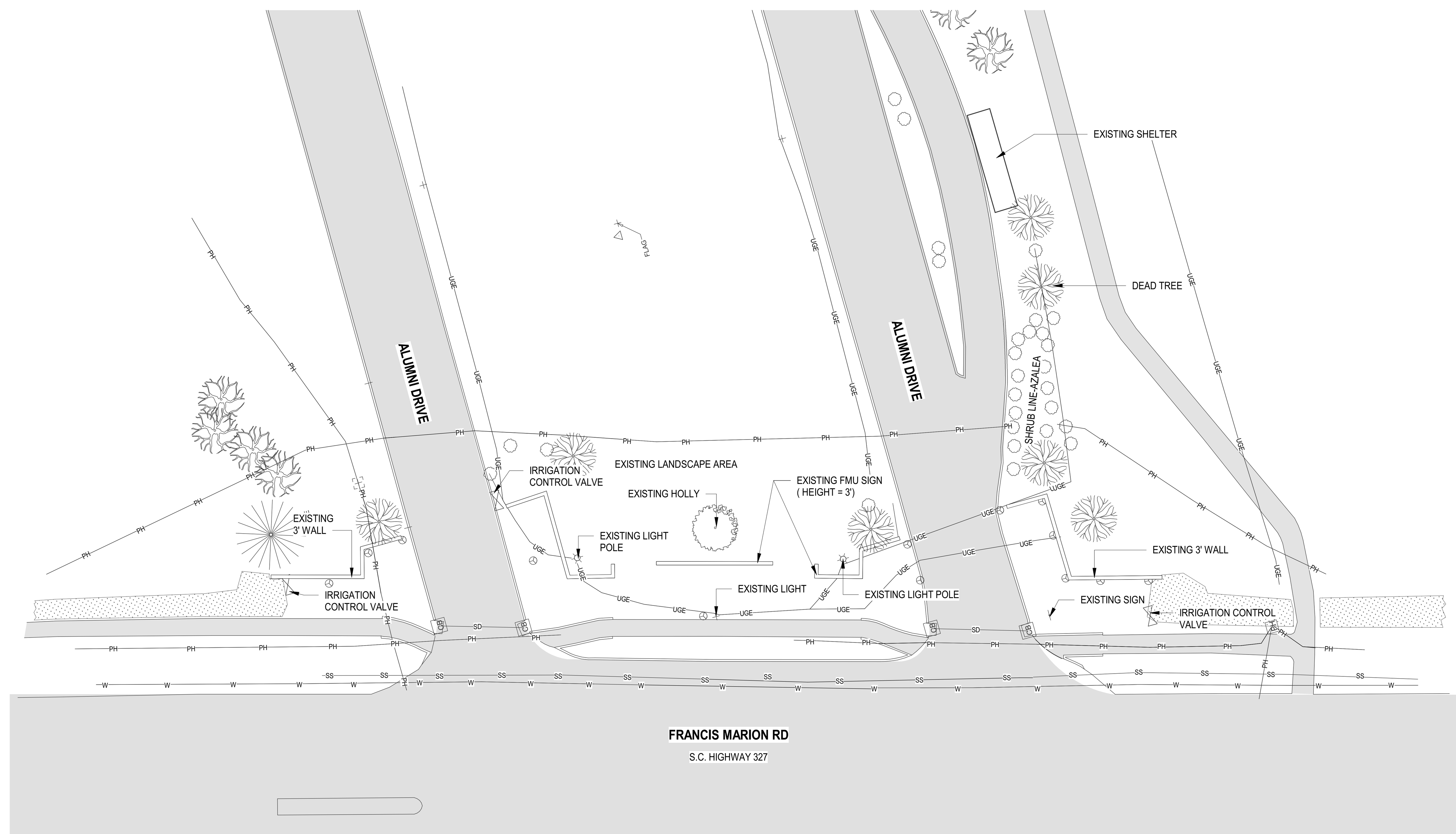
NOTE
WATER BROUGHT IN THIS LOCATION BY OWBER



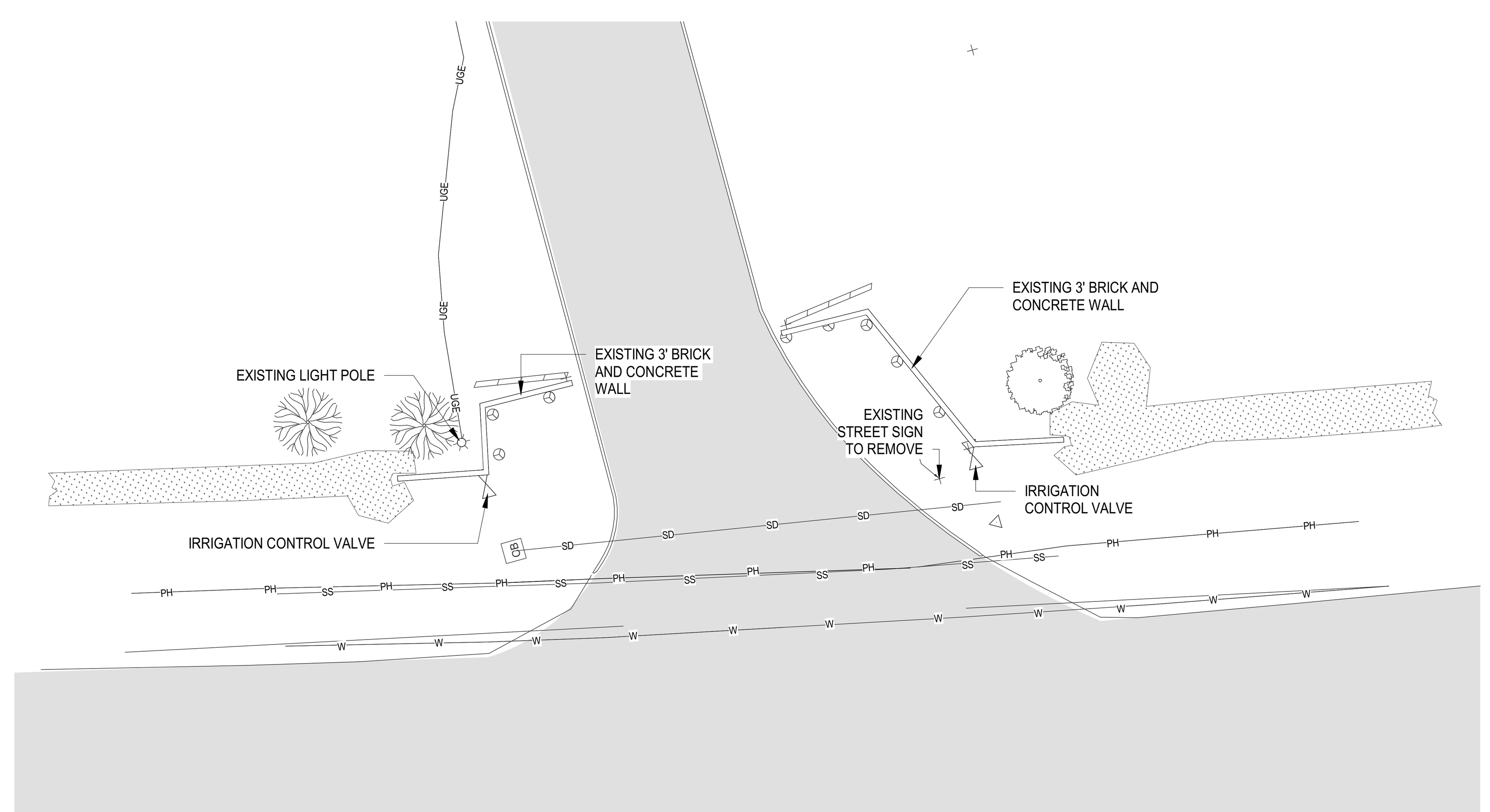
D3 A010 **GATE 1 - EXISTING SITE PLAN**
1" = 20'-0"

KEY PLAN

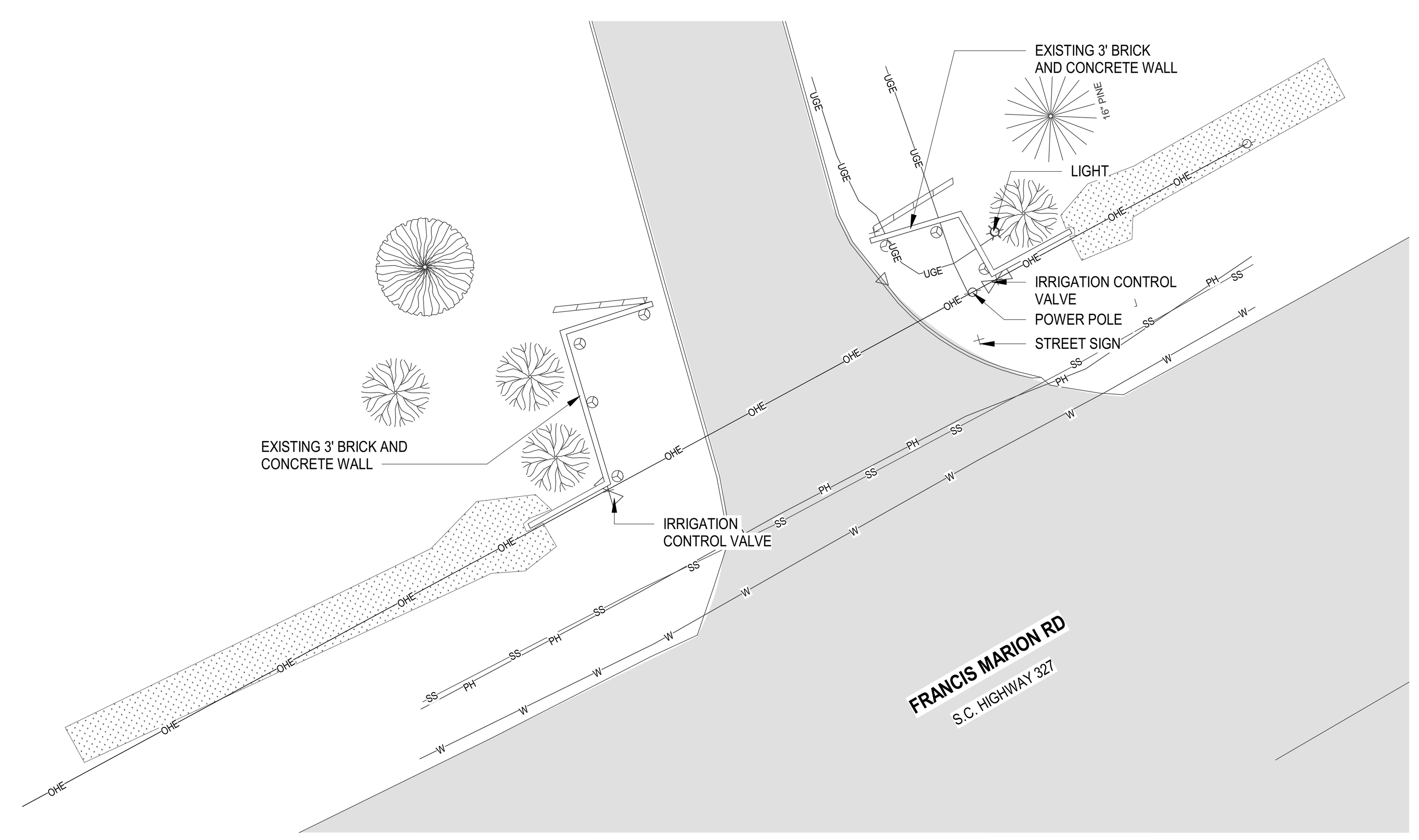




B5 A010 **GATE 2 - EXISTING SITE PLAN**
1" = 20'-0"



A5 A010 **GATE 3 - EXISTING SITE PLAN**
1" = 20'-0"



A3 A010 **GATE 4 - EXISTING SITE PLAN**
1" = 20'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA J. SANDERS TATE COLUMBIA, SC 2813 REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

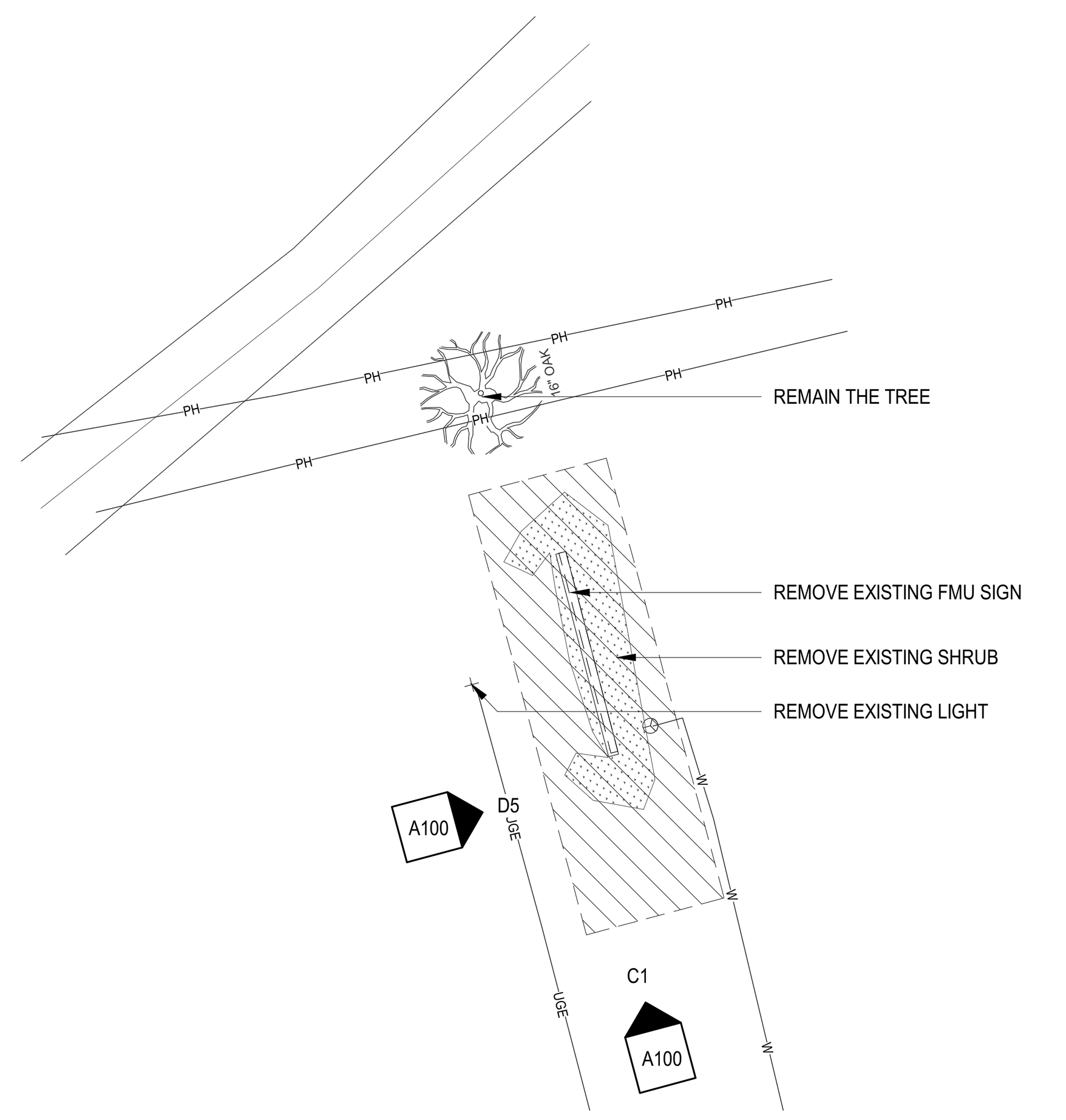
SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

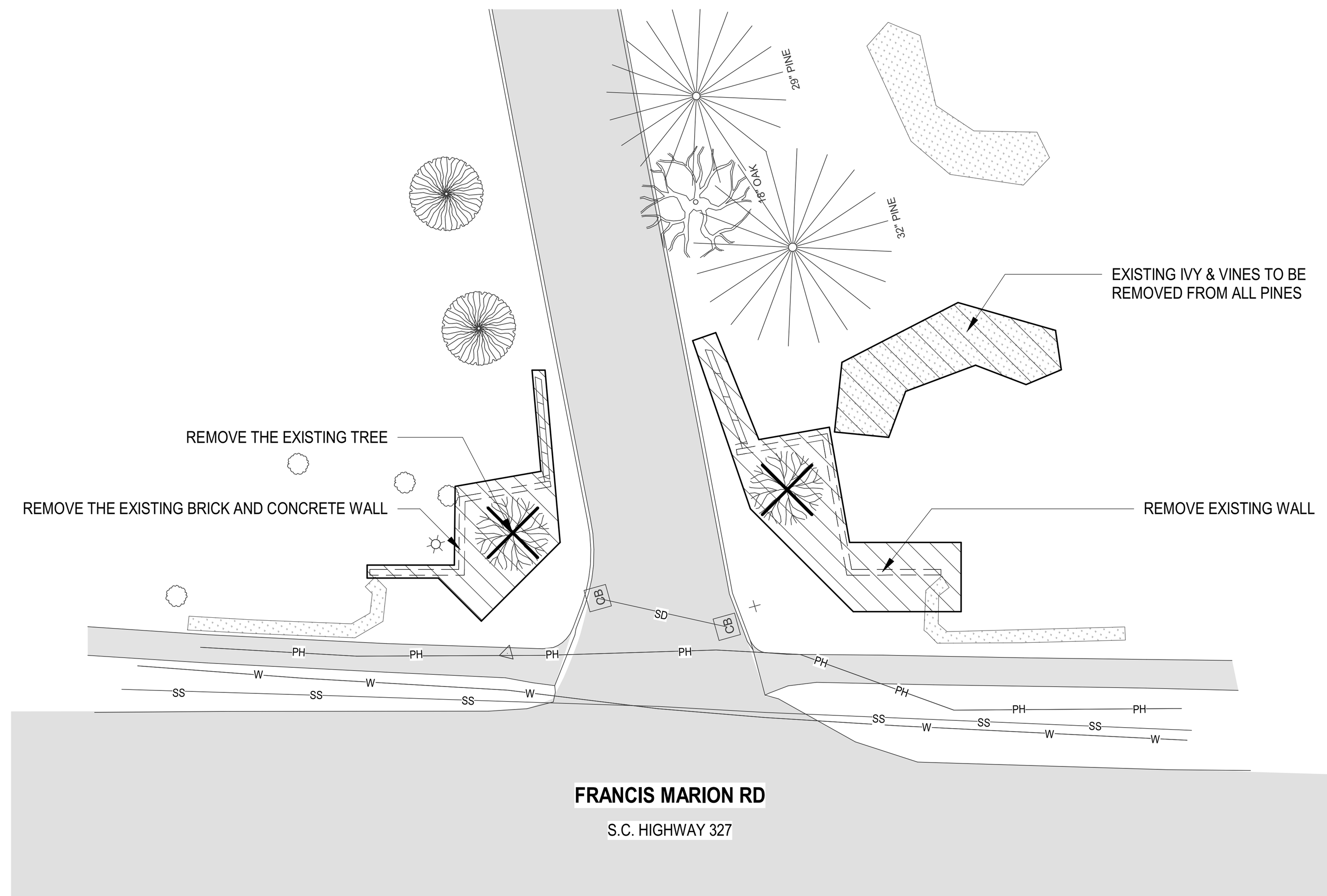
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:
EXISTING SITE PLAN

SHEET NO. A010
PROJ. NO. 023087.00

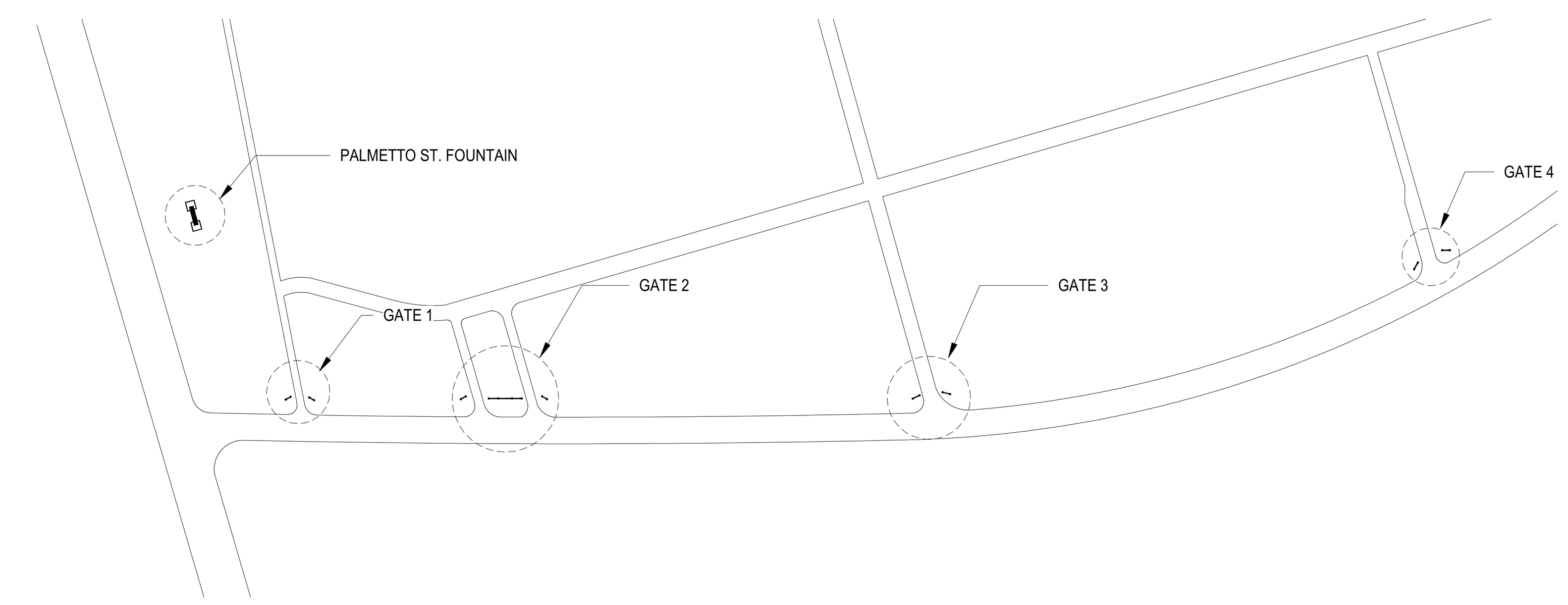


D5 A011 **PALMETTO STREET - DEMO SITE PLAN**
1" = 20'-0"



D3 A011 **GATE 1 - DEMO SITE PLAN**
1" = 20'-0"

KEY PLAN

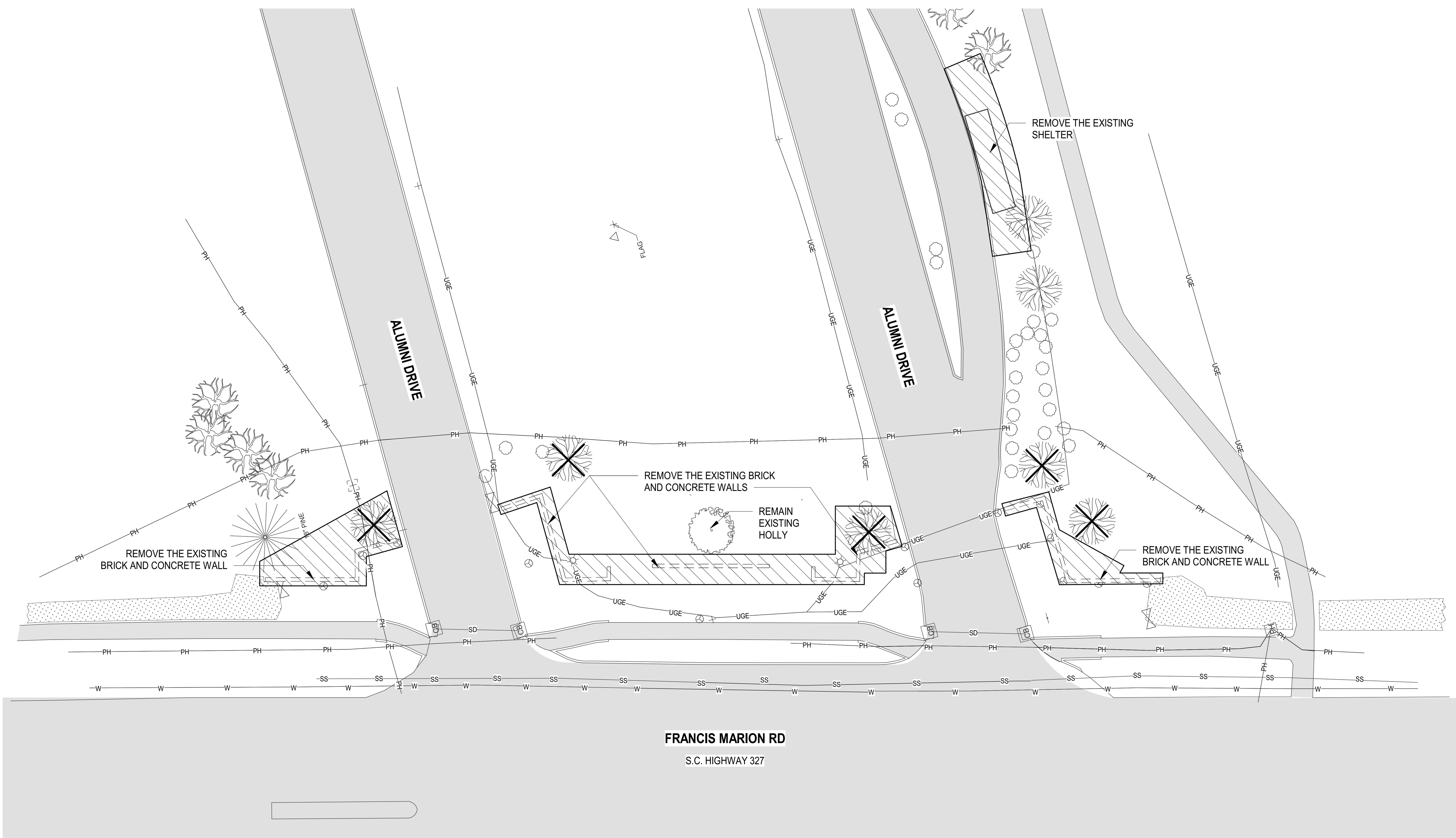


NOTE

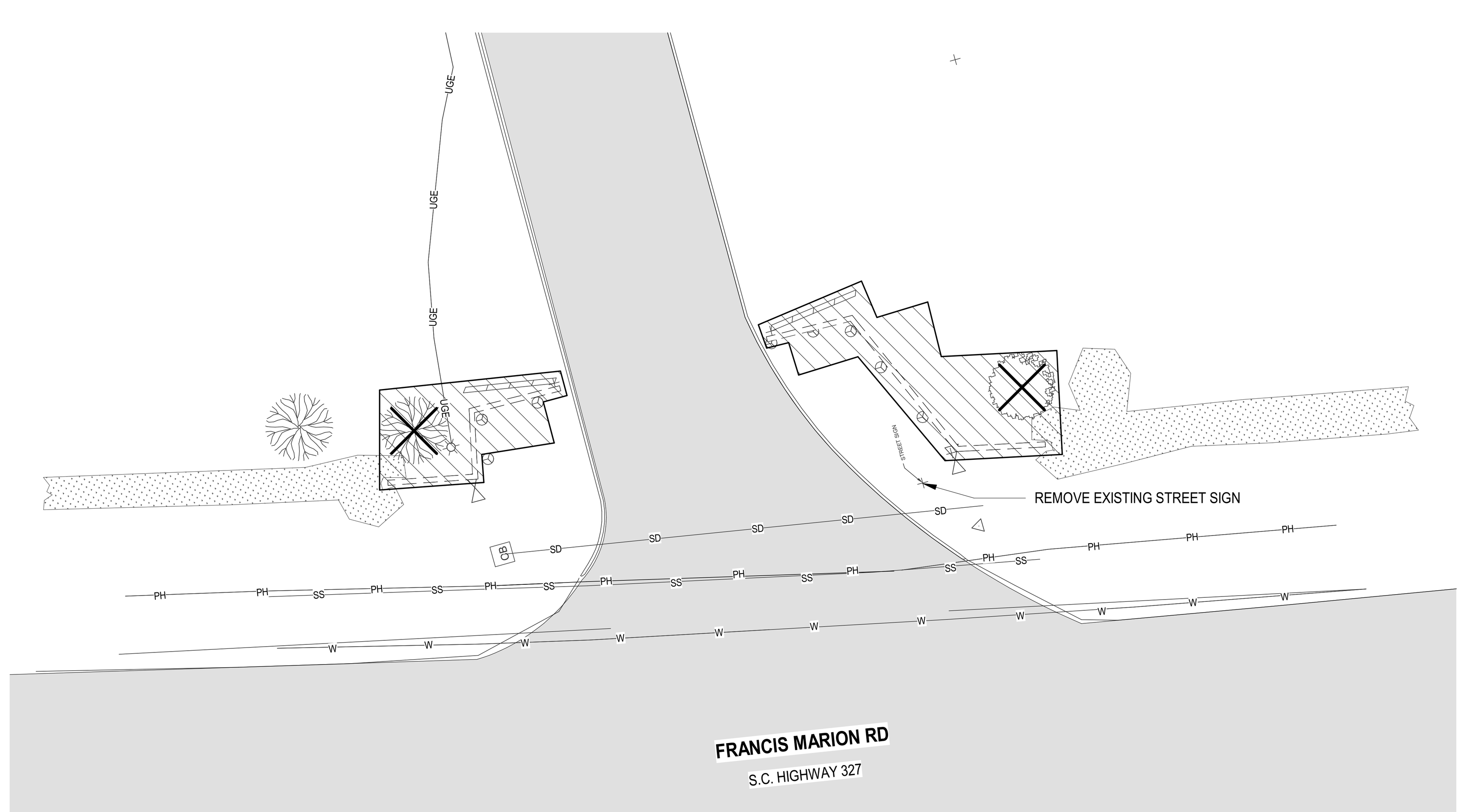
SEE LANDSCAPE DRAWINGS FOR TREE AND PLANT REMOVAL.

LEGENDS

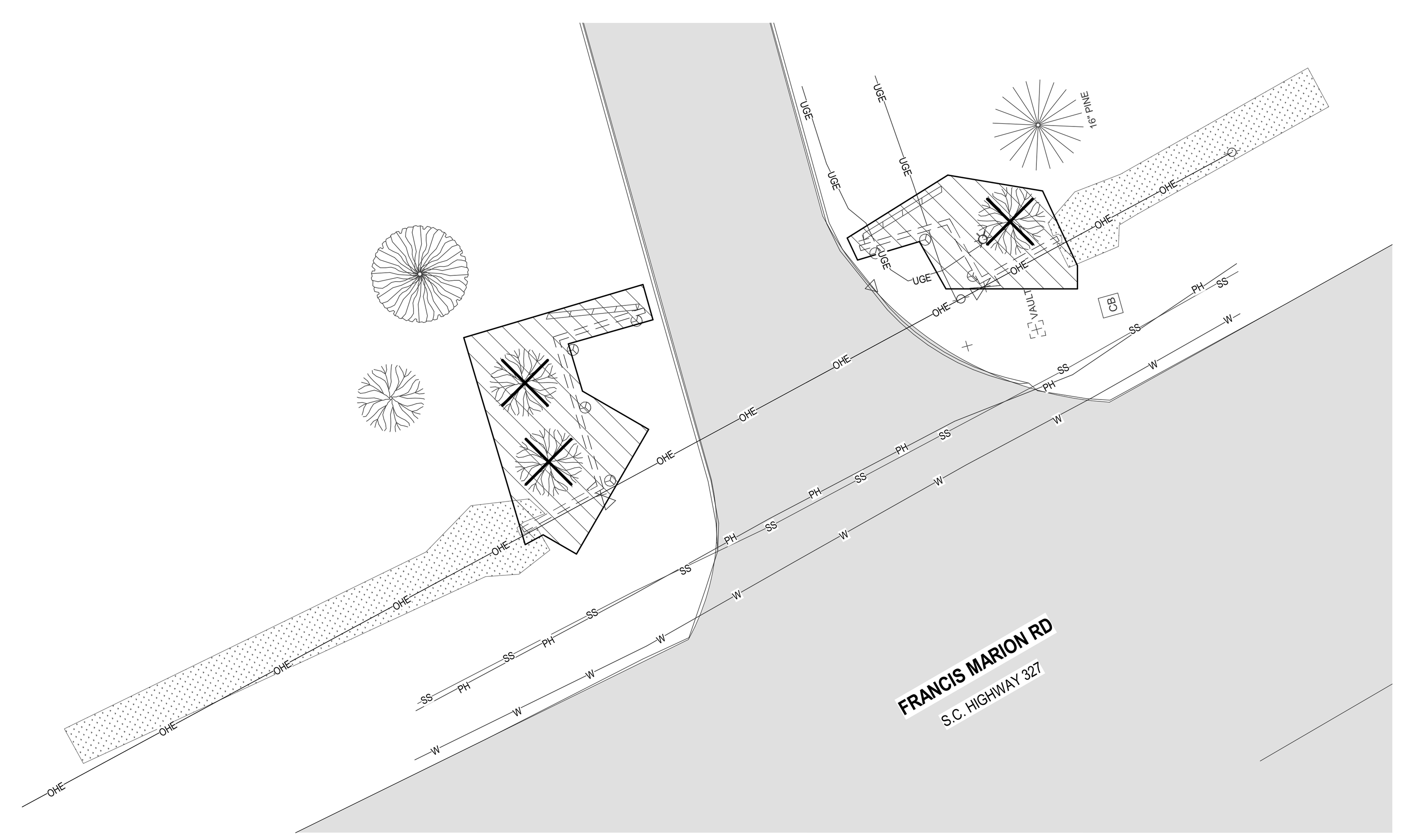
▨	REMOVE EXISTING FMU SIGN, VEGITATION
X	REMOVE EXISTING TREES



B5 A011 **GATE 2 - DEMO SITE PLAN**
1" = 20'-0"



A5 A011 **GATE 3 - DEMO SITE PLAN**
1" = 20'-0"



A3 A011 **GATE 4 - DEMO SITE PLAN**
1" = 20'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA J. SANDERS TATE COLUMBIA, SC 2813 REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

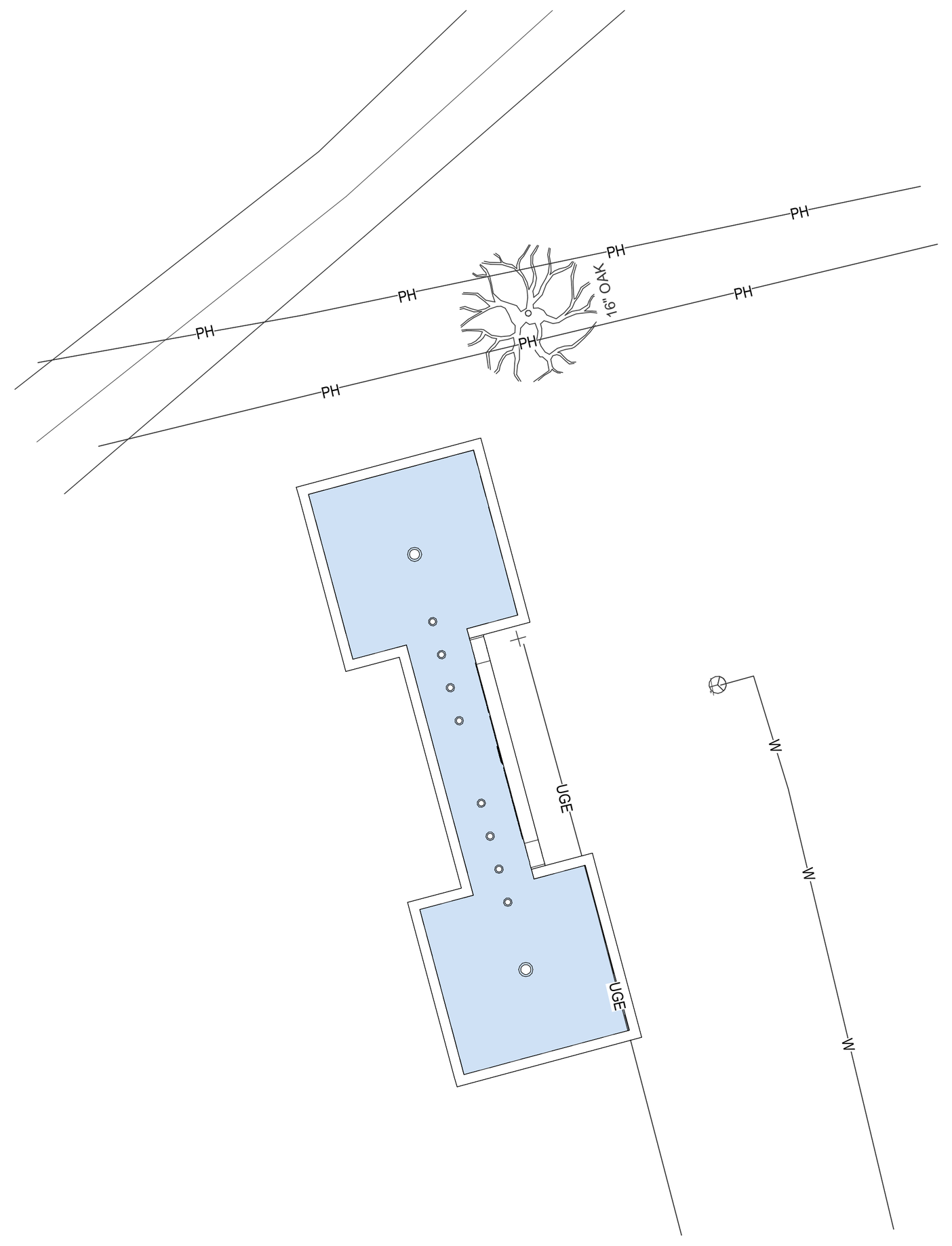
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

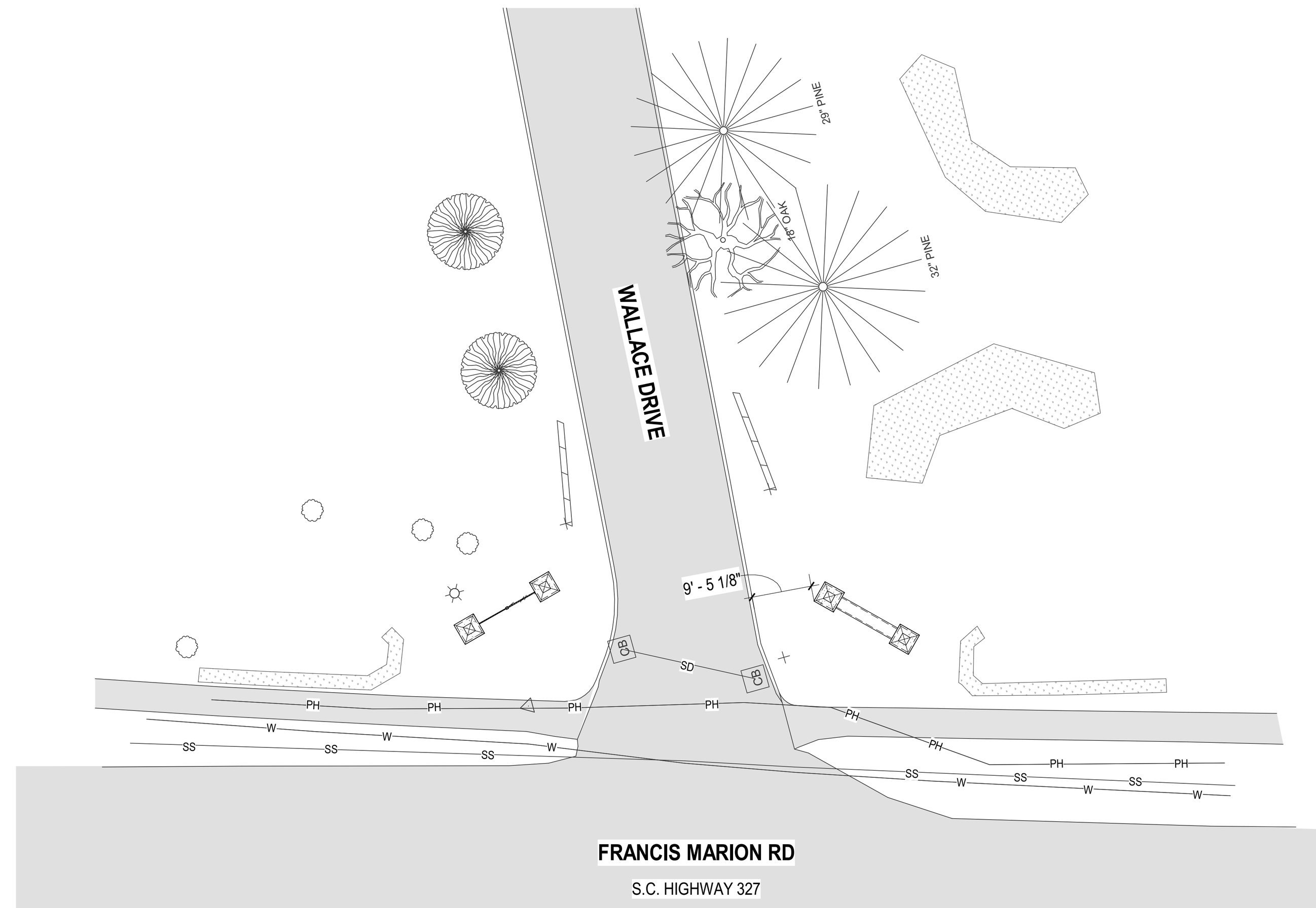
DEMOLITION SITE PLAN

SHEET NO. A011

PROJ. NO. 023087.00

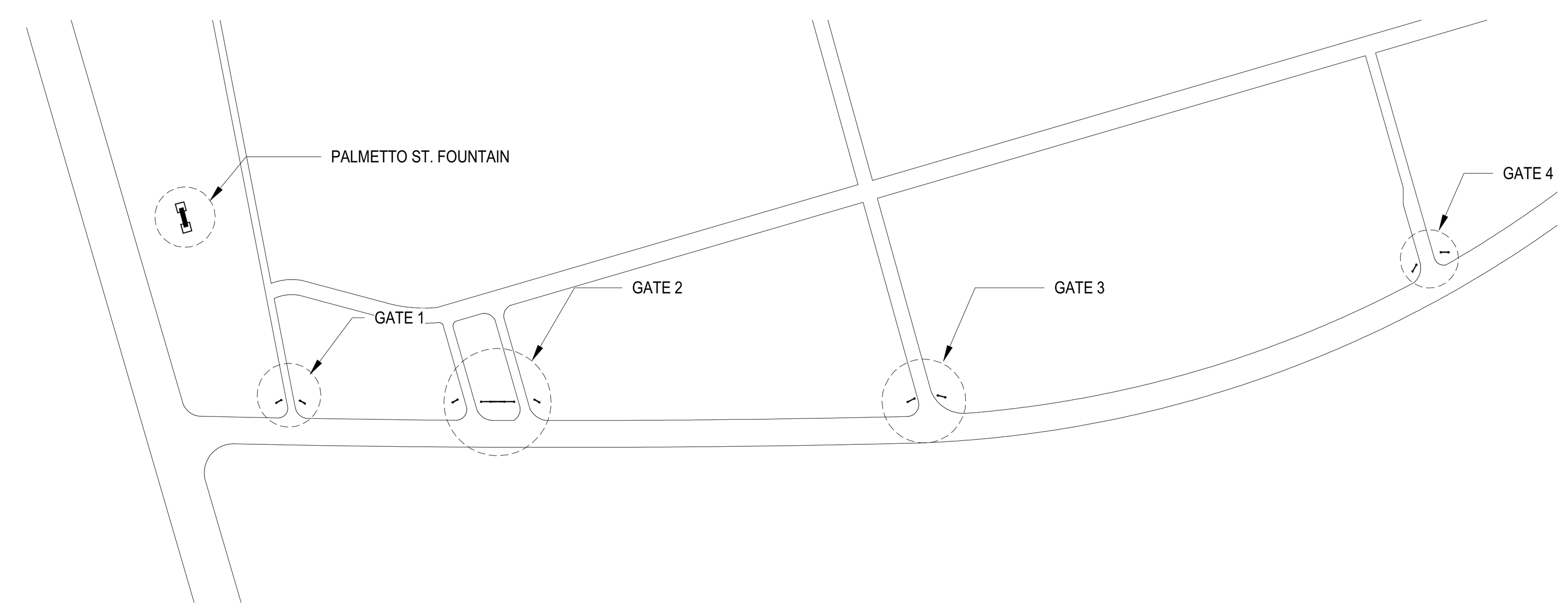


D5 / A012
PALMETTO STREET - ARCHITECTURAL SITE PLAN
1" = 20'-0"



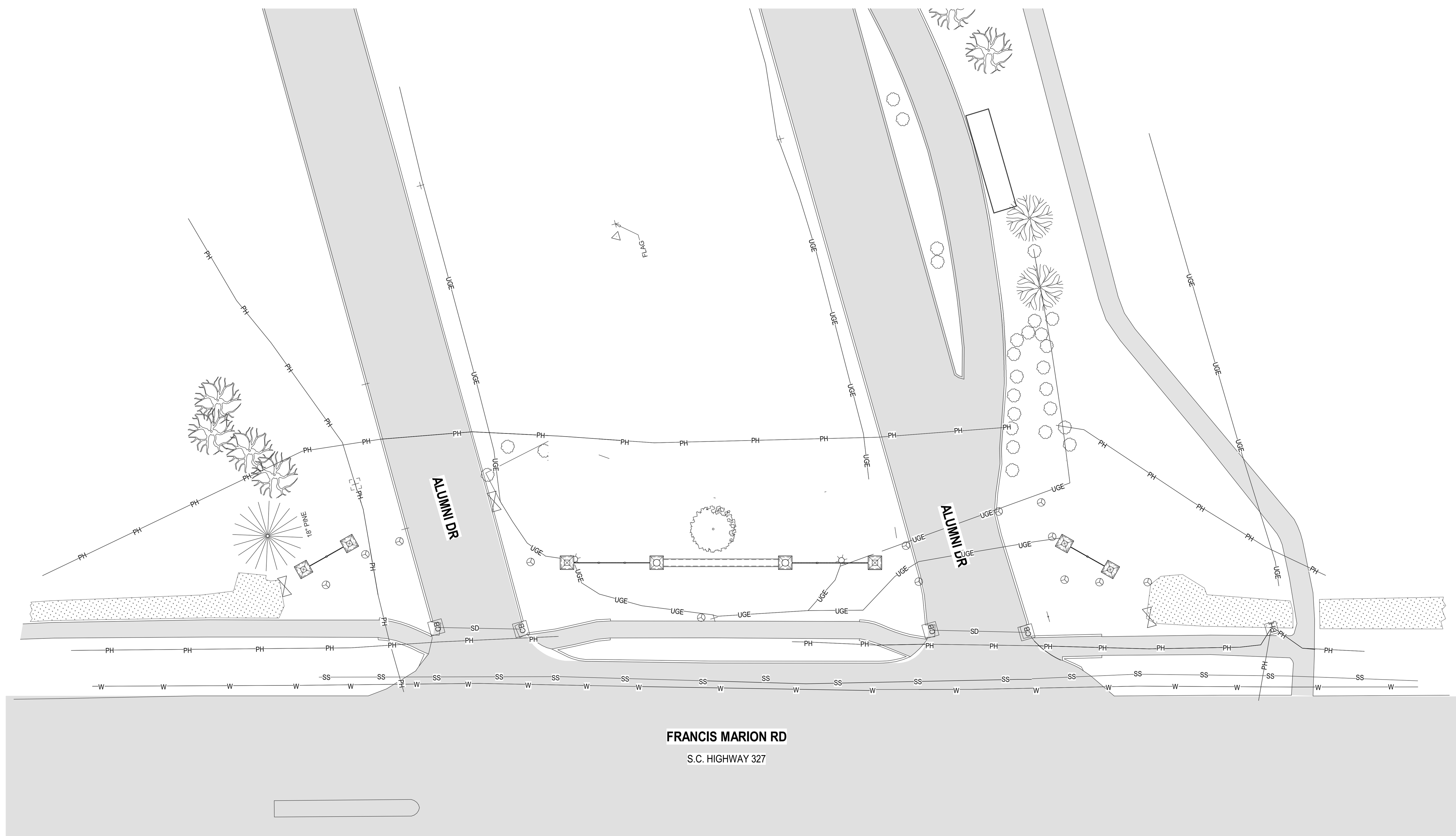
D3 / A012
GATE 1 - ARCHITECTURAL SITE PLAN
1" = 20'-0"

KEY PLAN

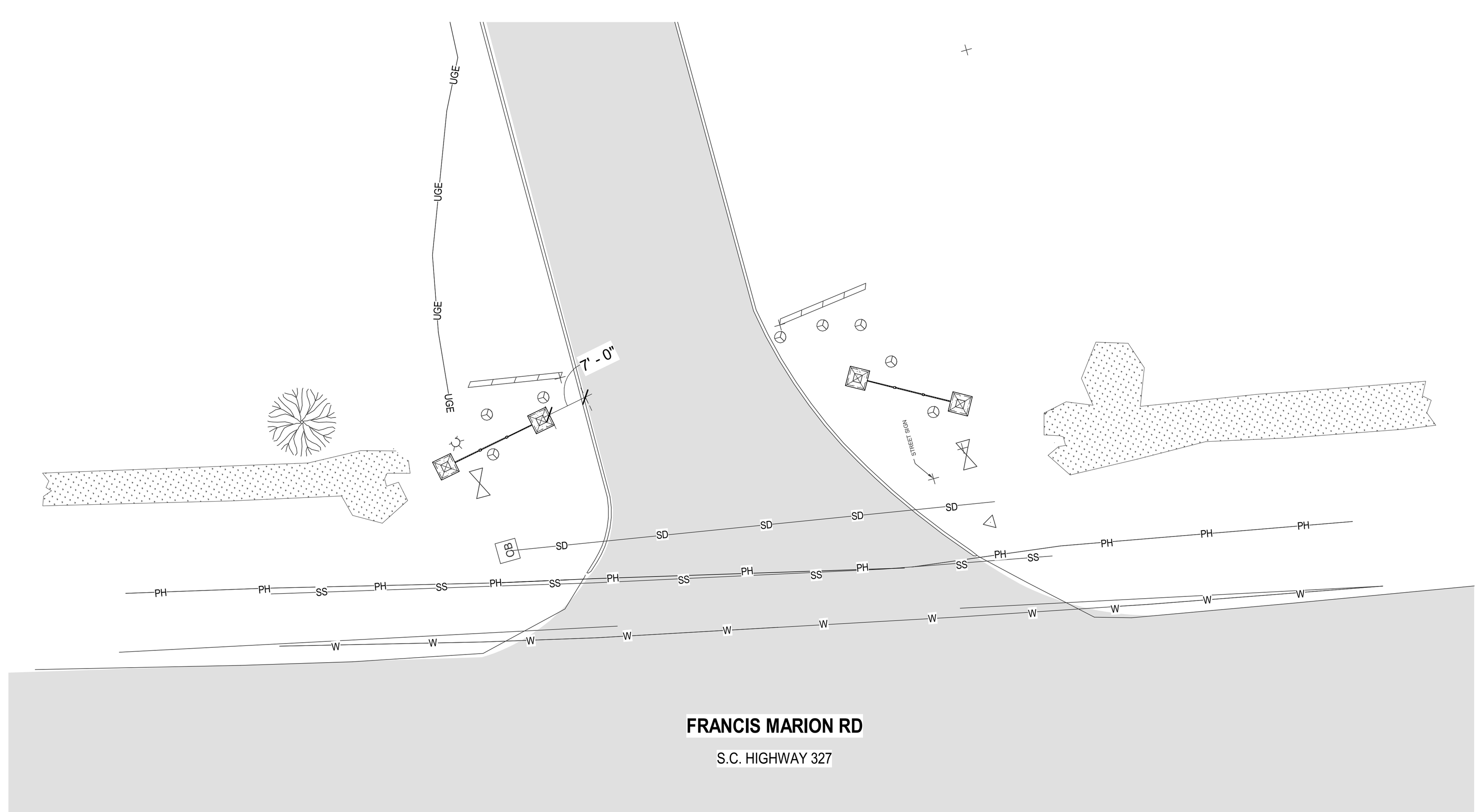


NOTE

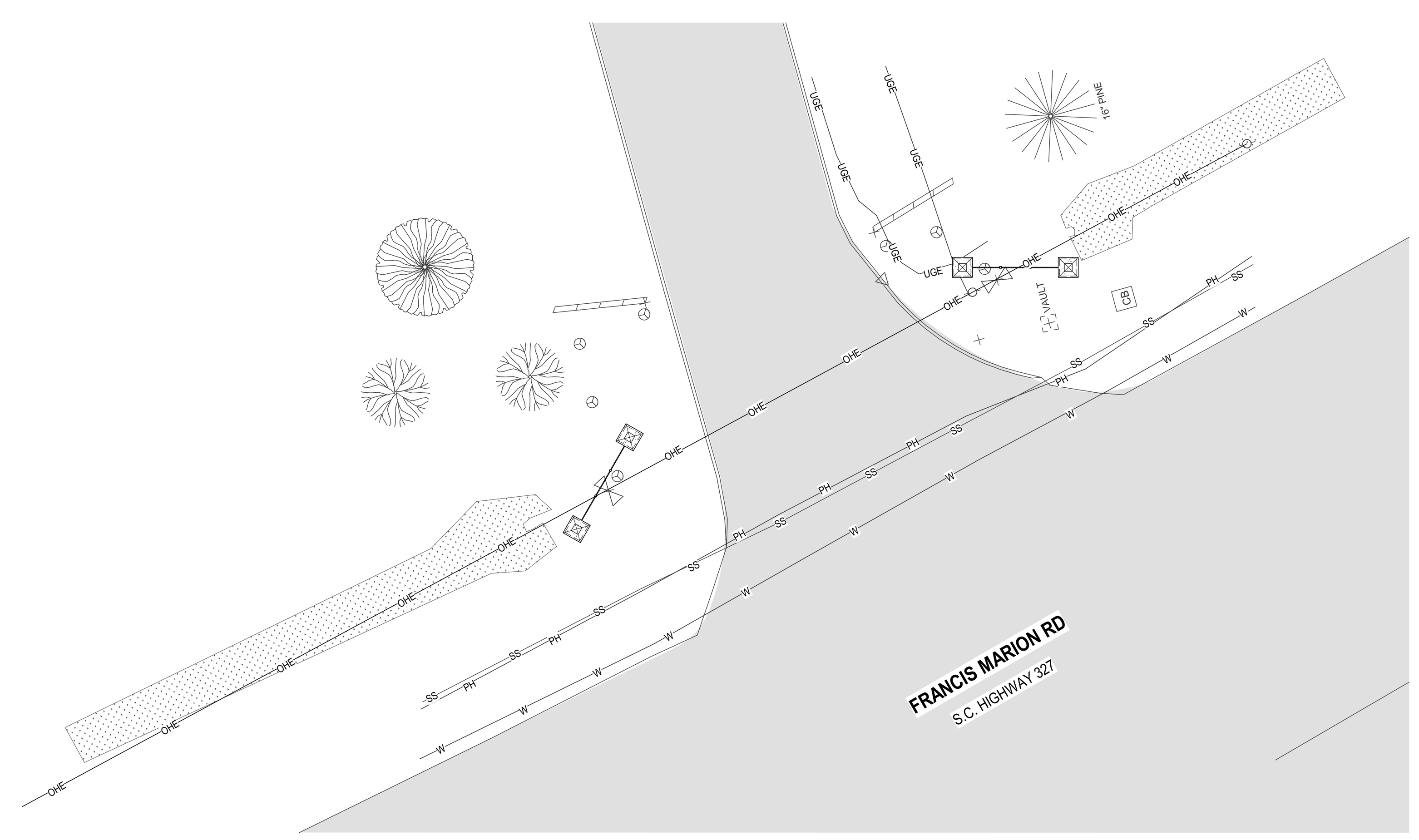
CONTRACTORS ARE SUPPOSED TO HAVE UNDERGROUND LINE LOCATES DONE BEFORE STARTING CONSTRUCTIONS



B5 / A012
GATE 2 - ARCHITECTURAL SITE PLAN
1" = 20'-0"



A5 / A012
GATE 3 - ARCHITECTURAL SITE PLAN
1" = 20'-0"



A3 / A012
GATE 4 - ARCHITECTURAL SITE PLAN
1" = 20'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA — J. SANDERS TATE — COLUMBIA, SC — 2813 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

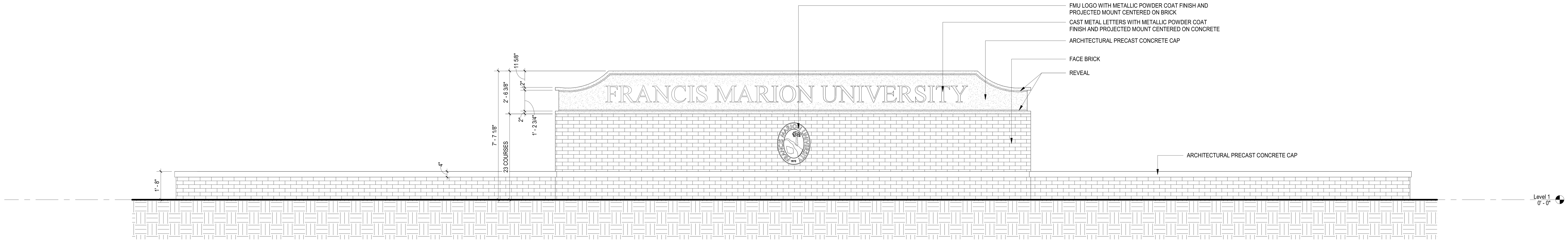
NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

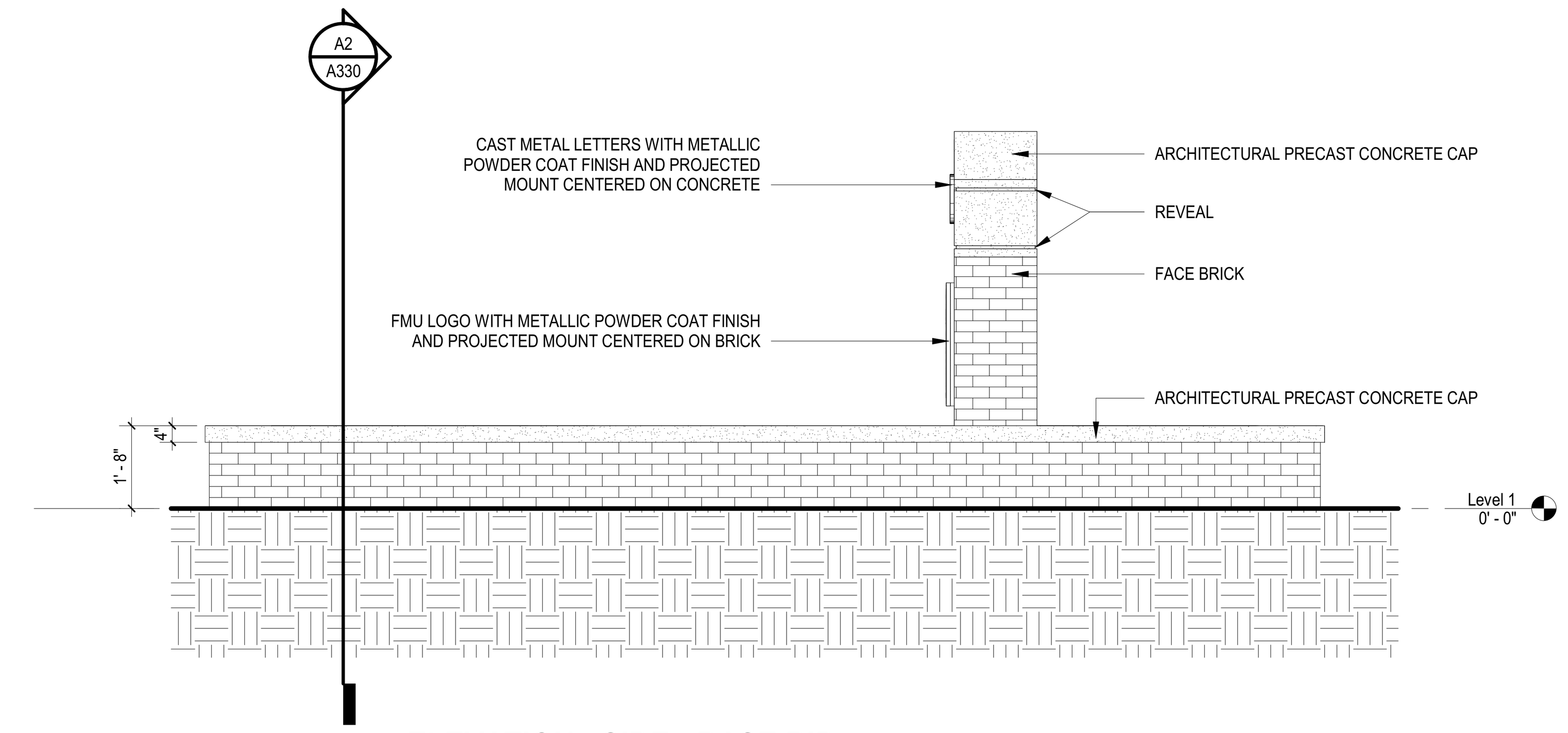
SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NO. A012

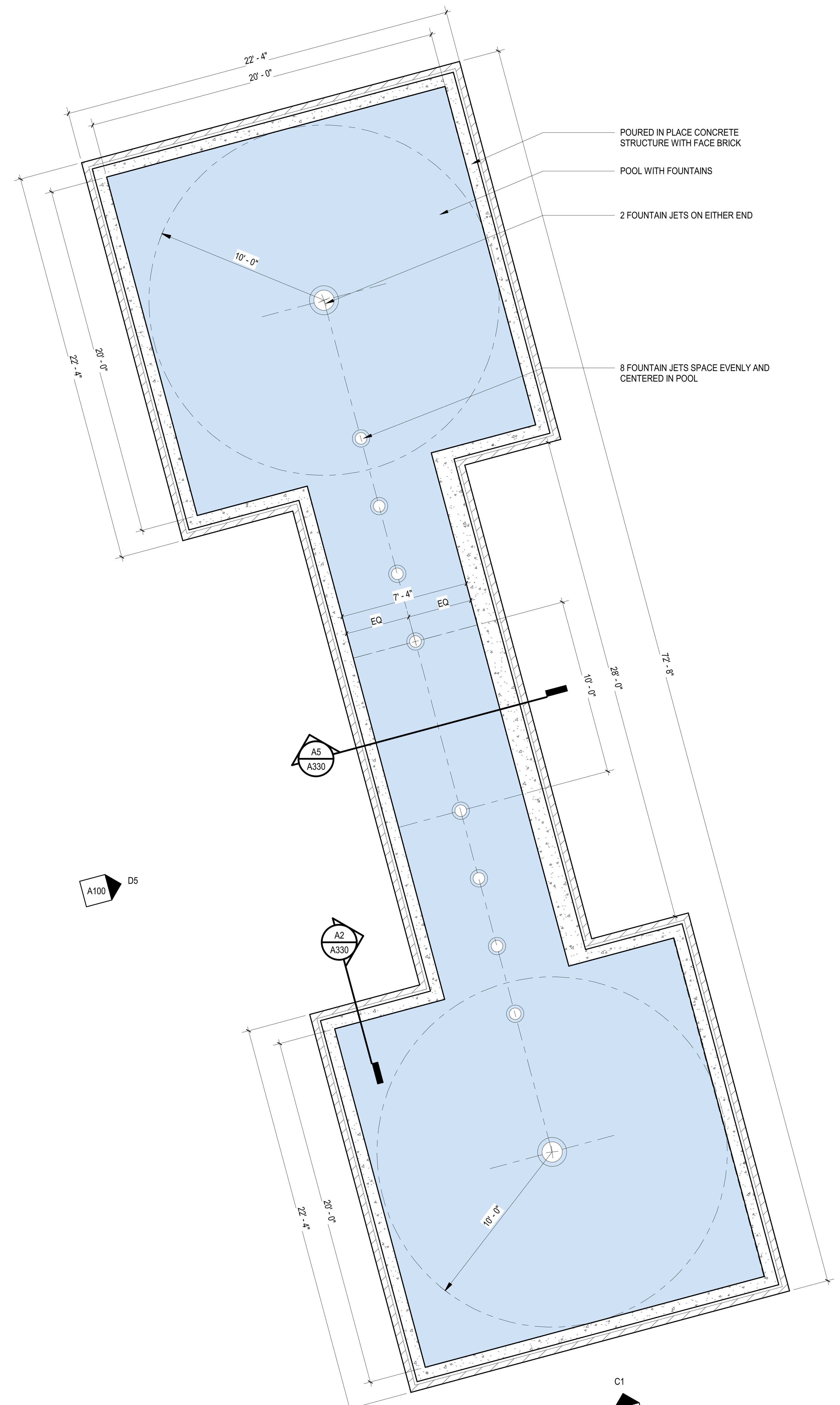
PROJ. NO. 023087.00



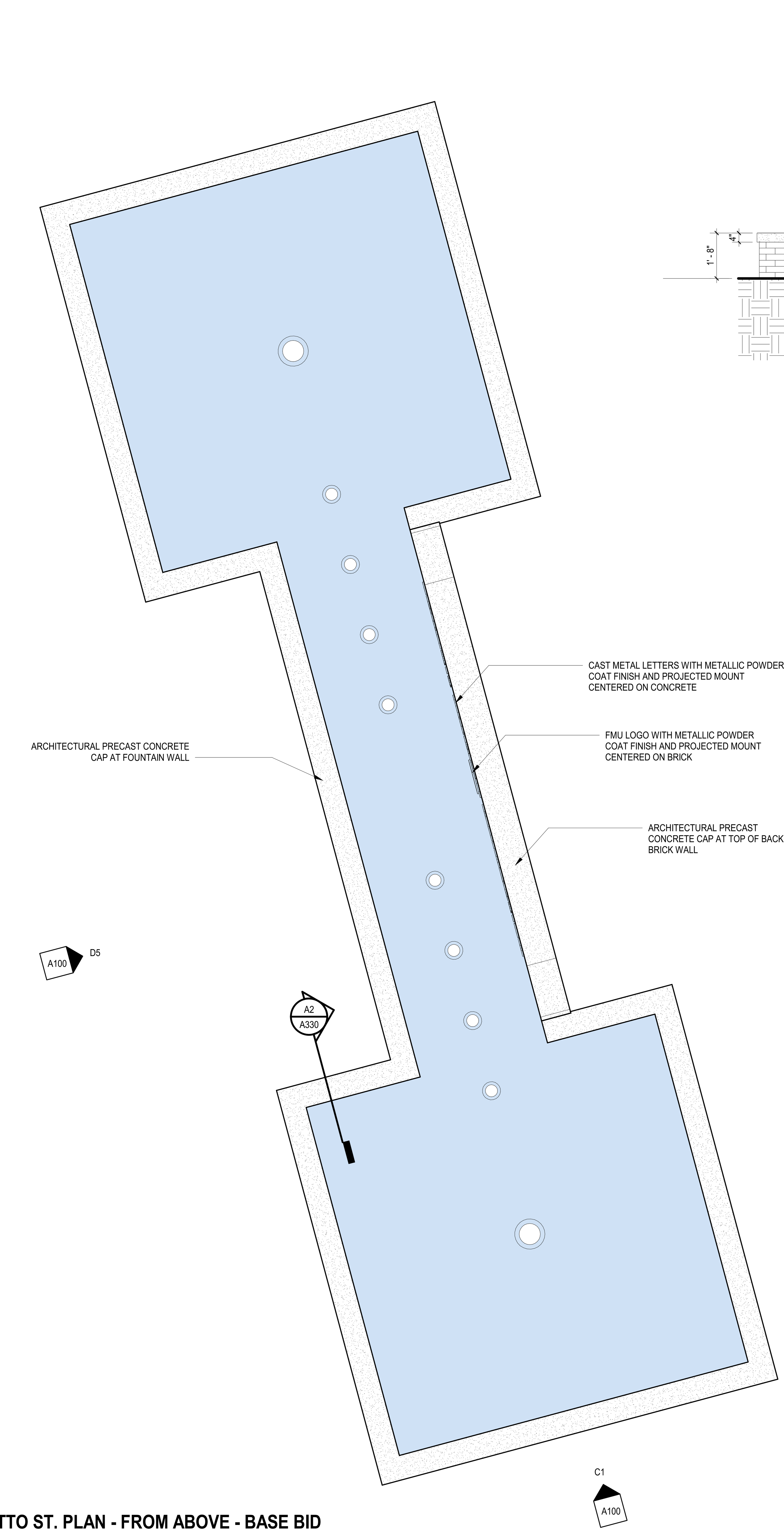
D5 A100 **ELEVATION - FRONT - BASE BID**
3/8" = 1'-0"



C1 A100 **ELEVATION - SIDE - BASE BID**
3/8" = 1'-0"



A5 A100 **PALMETTO ST. PLAN - SECTION - BASE BID**
1/4" = 1'-0"



A3 A100 **PALMETTO ST. PLAN - FROM ABOVE - BASE BID**
1/4" = 1'-0"

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA
J. SANDERS TATE
COLUMBIA, SC
2813
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
McMILLAN PAZDAN SMITH, LLC
GREENVILLE, SC
100573
REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

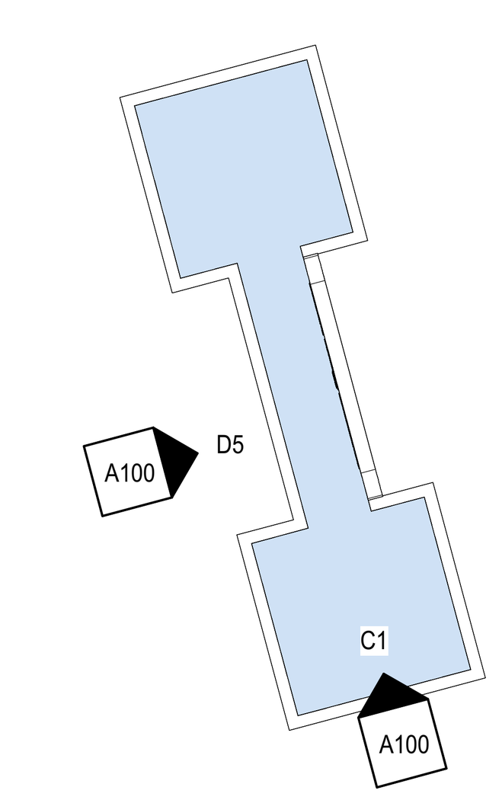
ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

KEY PLAN



PROJECT NORTH

PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

PALMETTO ST. PLAN AND ELEVATION - BASE BID

SHEET NO. A100

PROJ. NO. 023087.00

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

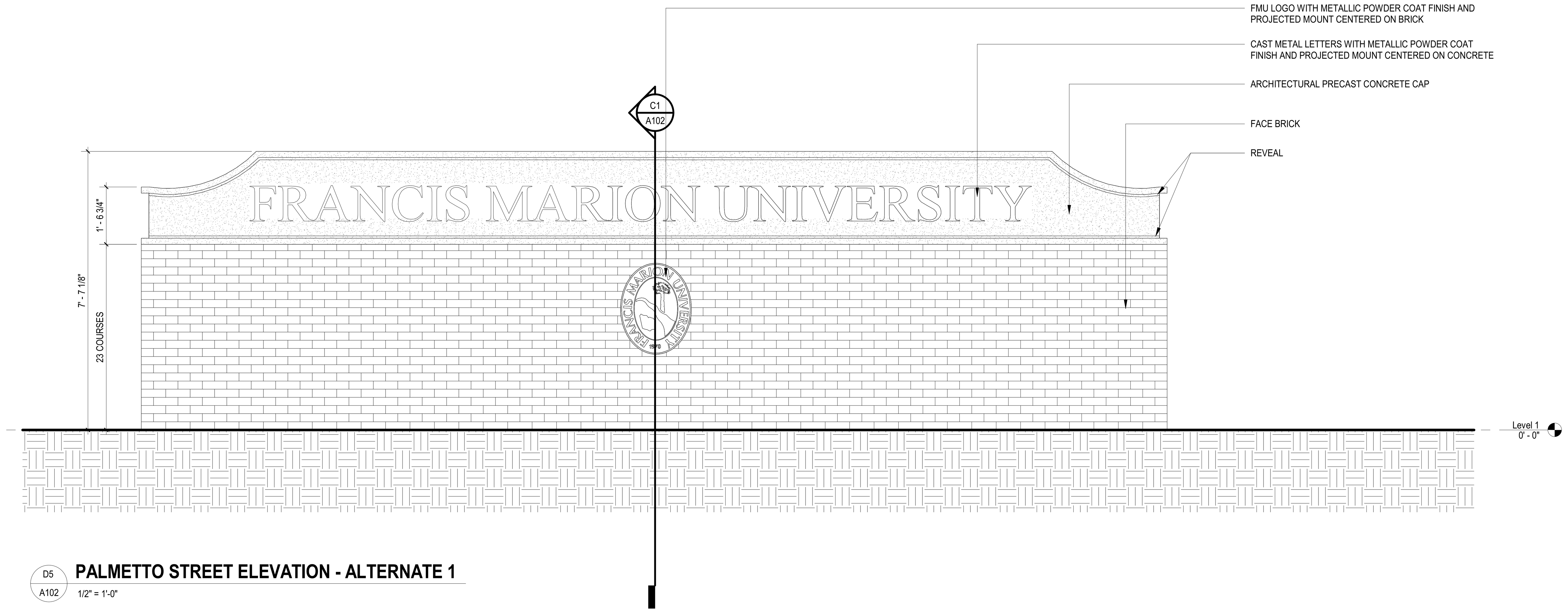
STATE OF SOUTH CAROLINA J. SANDERS TATE COLUMBIA, SC 2813 REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

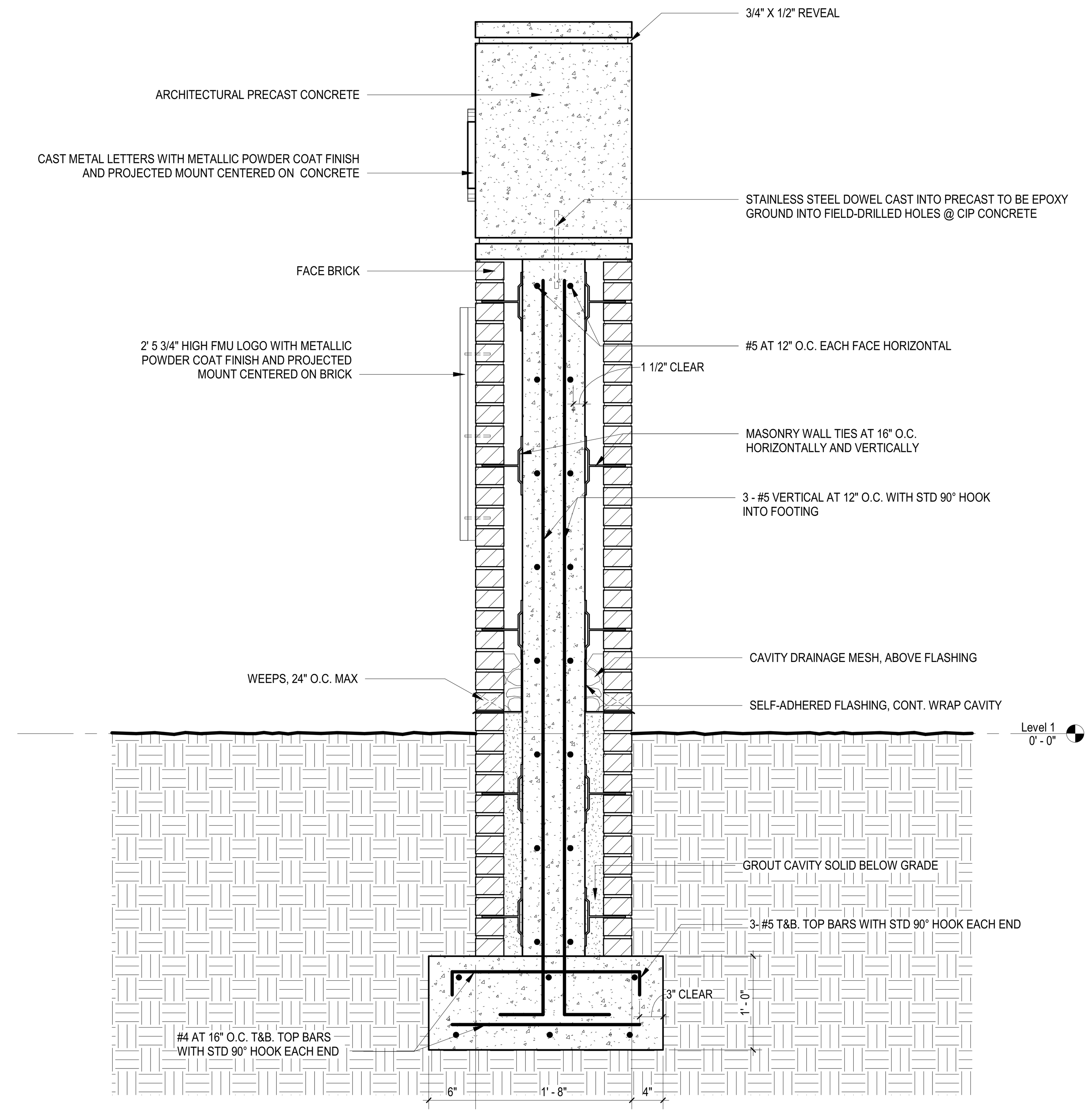
ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA



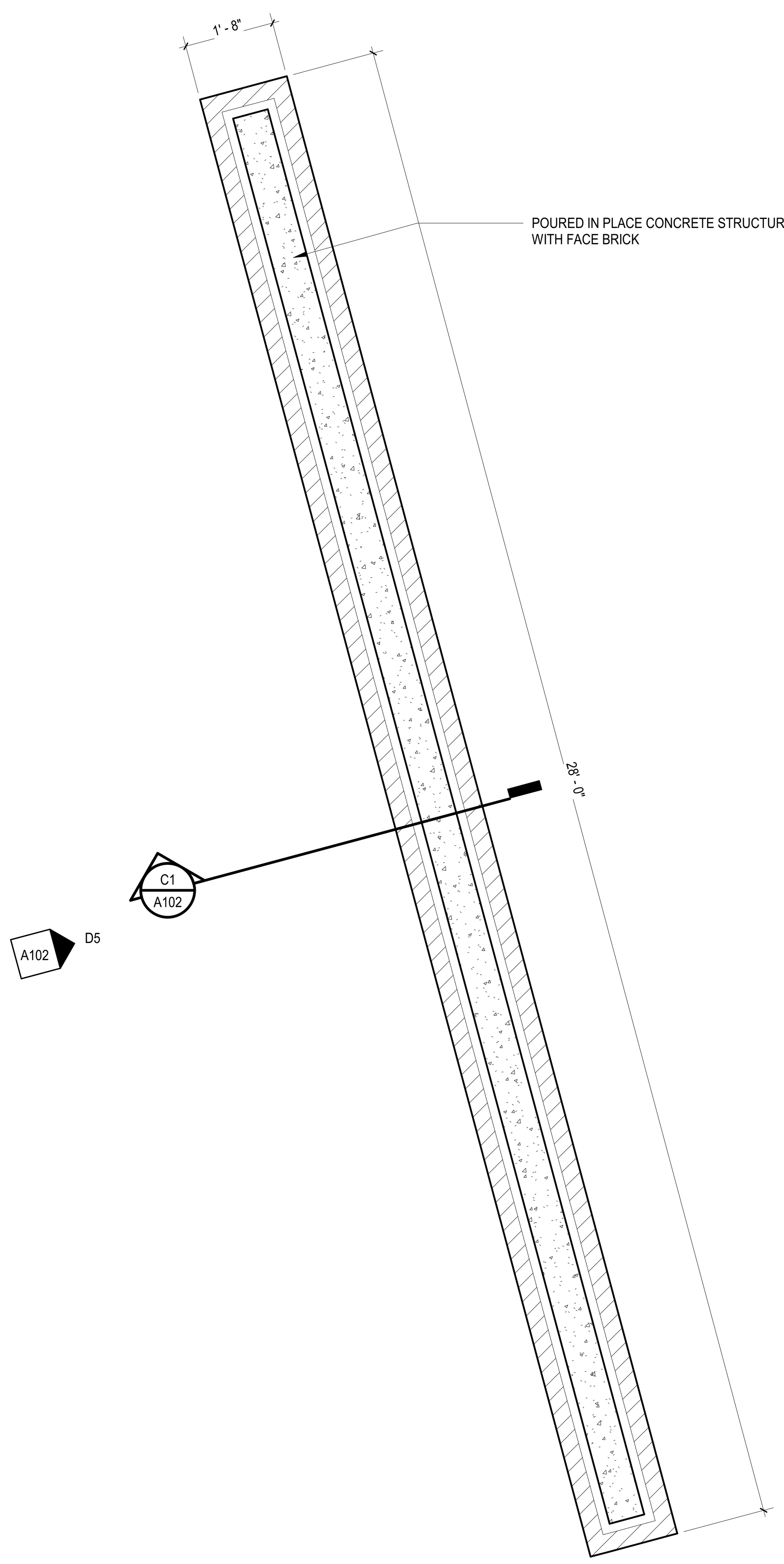
D5 A102 **PALMETTO STREET ELEVATION - ALTERNATE 1**

1/2" = 1'-0"



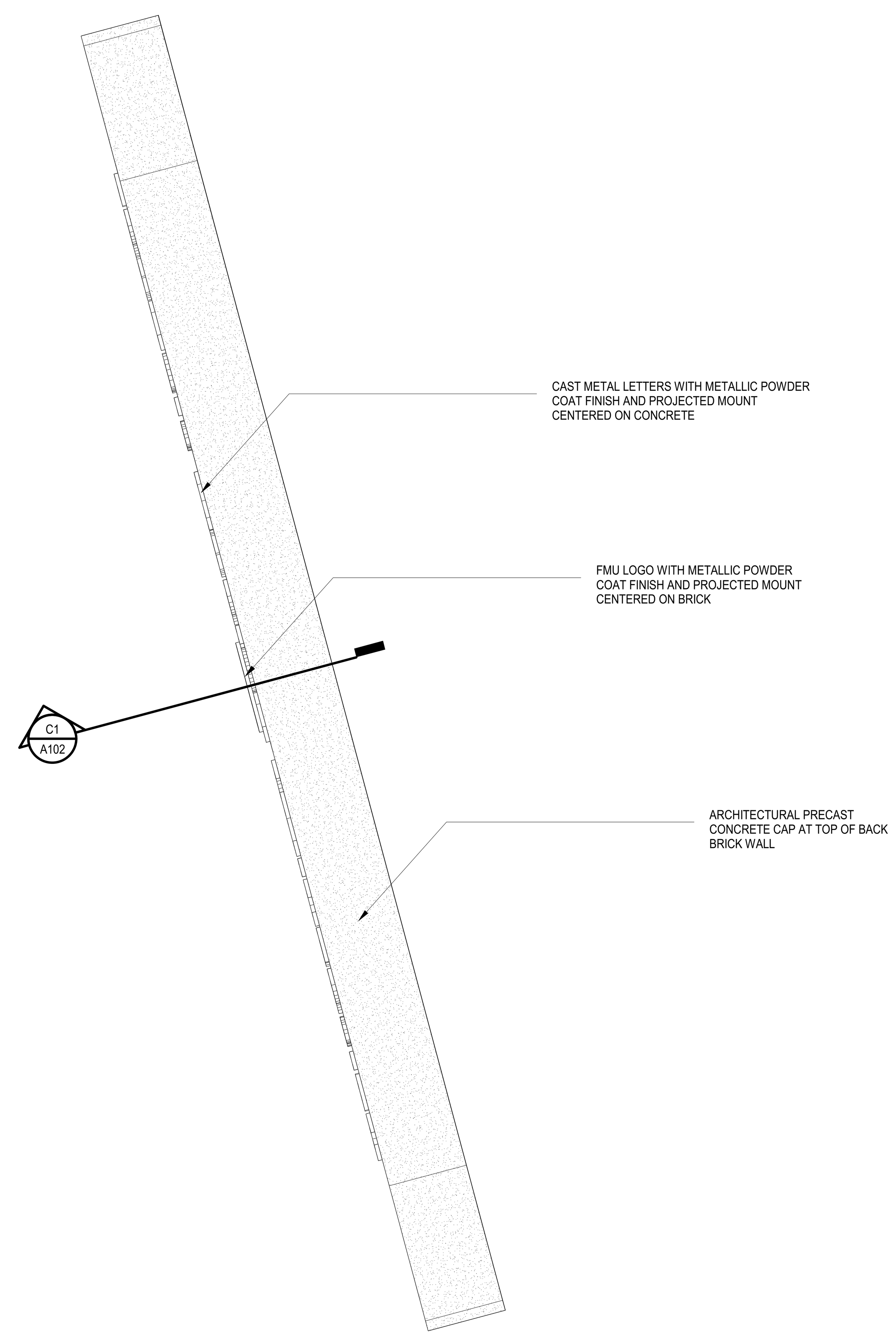
C1 A102 **WALL SECTION - ALTERNATE 1**

1" = 1'-0"



C4 A102 **PALMETTO ST. PLAN - SECTION - ALTERNATE 1**

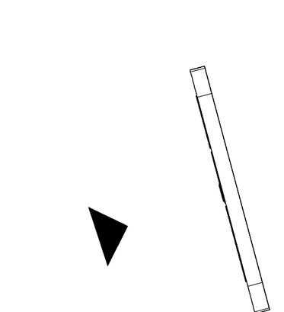
1/2" = 1'-0"



C3 A102 **PALMETTO ST. PLAN - FROM ABOVE - ALTERNATE 1**

1/2" = 1'-0"

KEY PLAN



SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE:	S TATE
PROJECT ARCHITECT:	S TATE
DRAWN BY:	X GAO

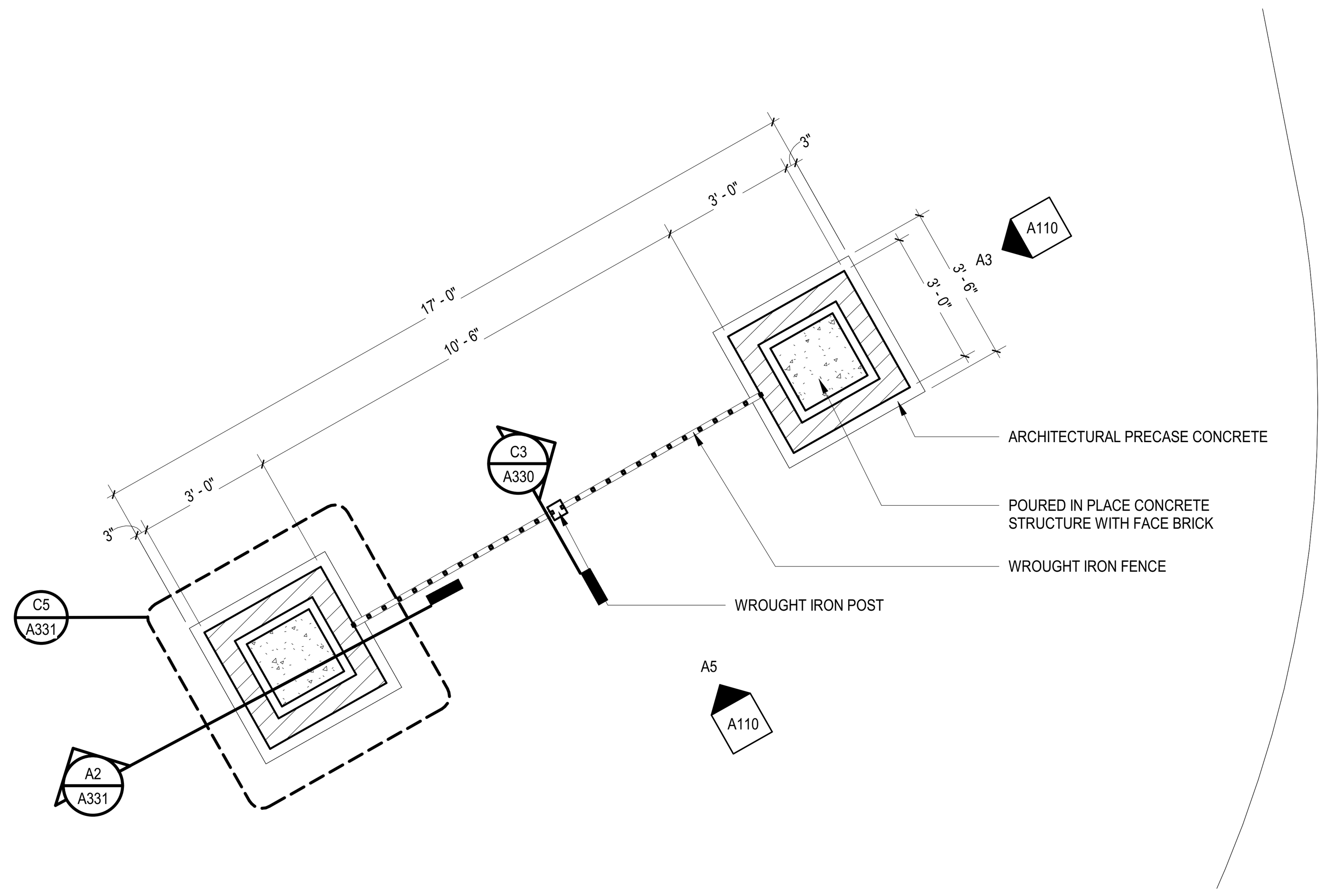
SHEET TITLE:

PALMETTO ST. PLAN, ELEVATION AND SECTION - ALTERNATE 1

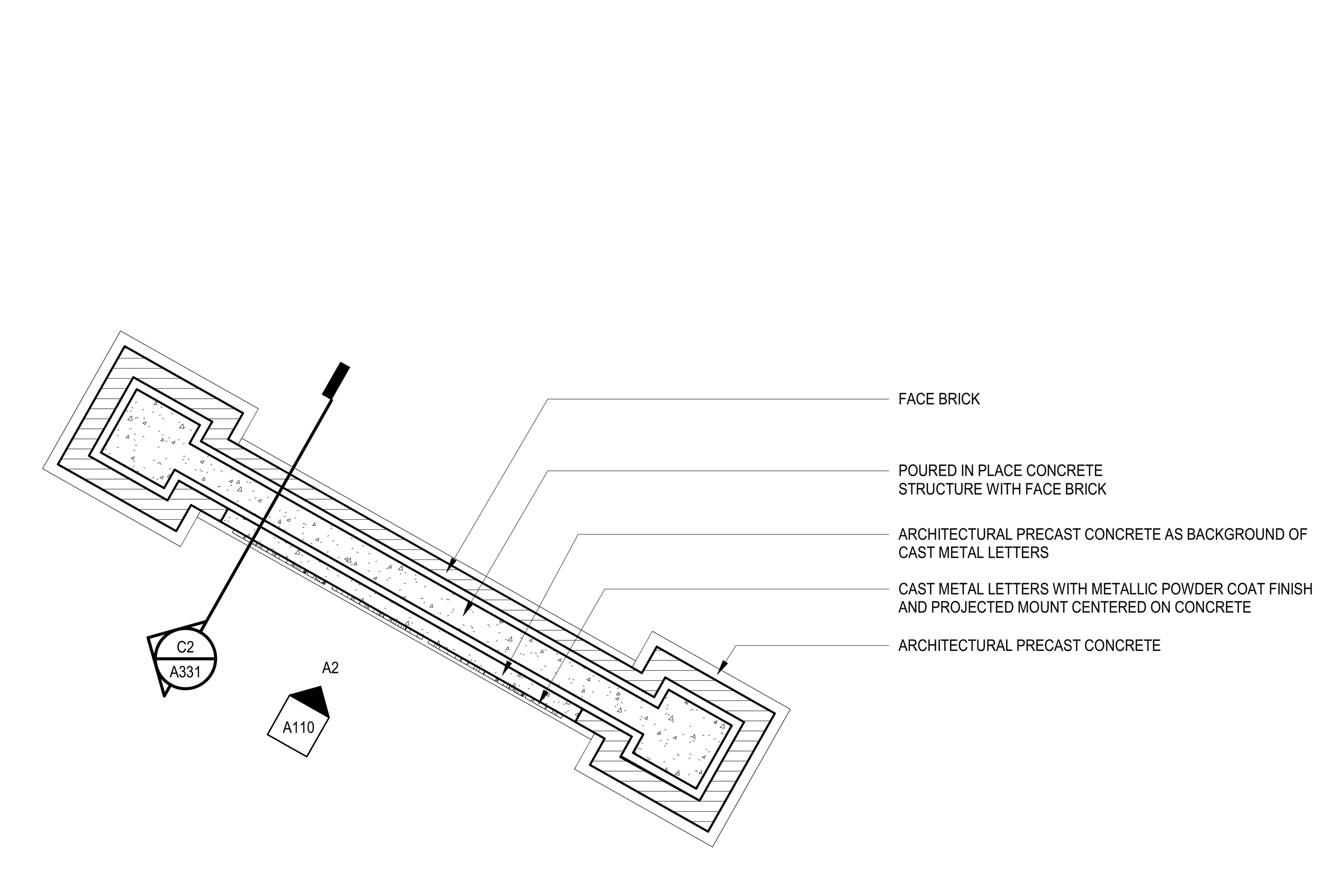
PROJ. NO. 023087.00

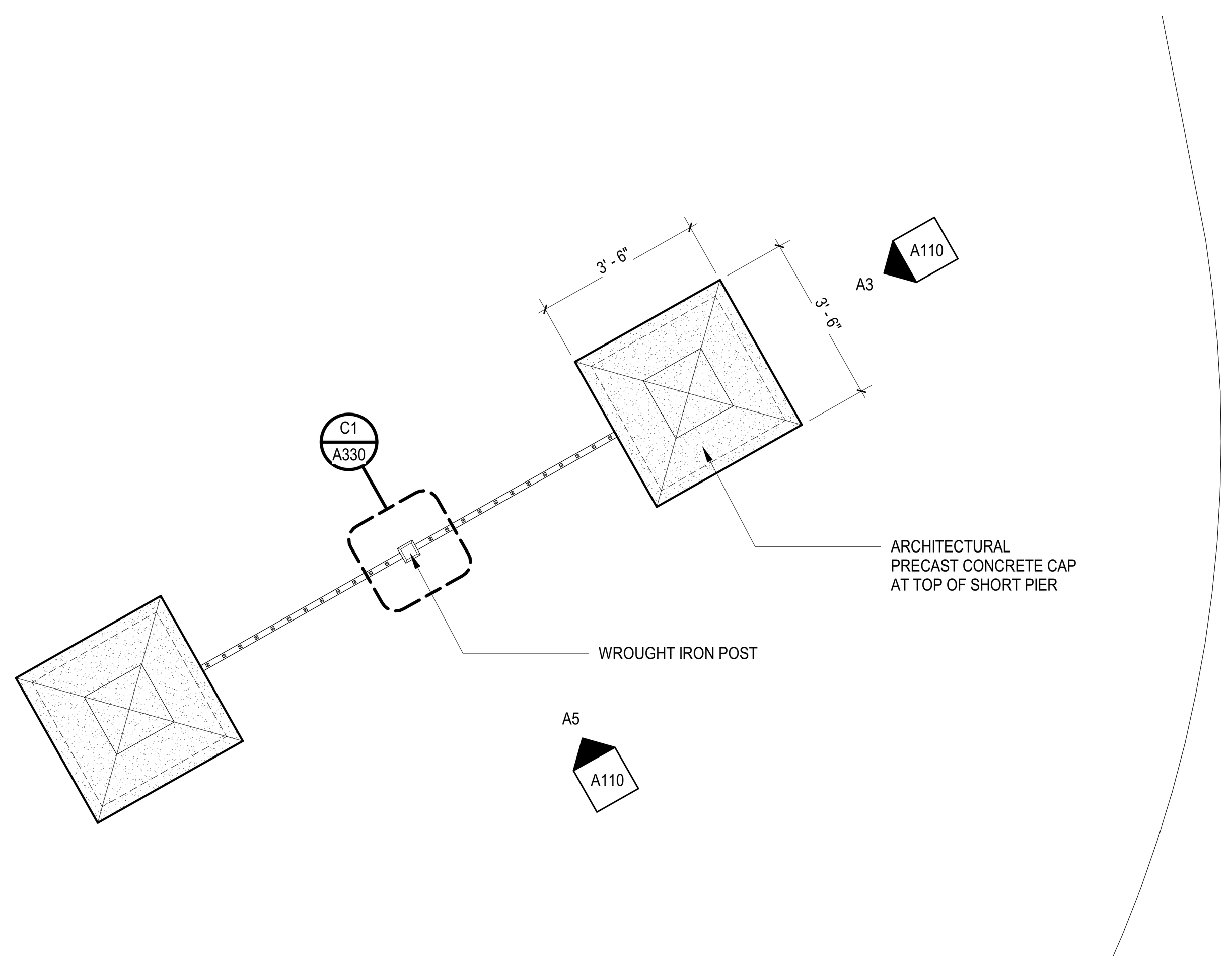
PROJECT NORTH

A102

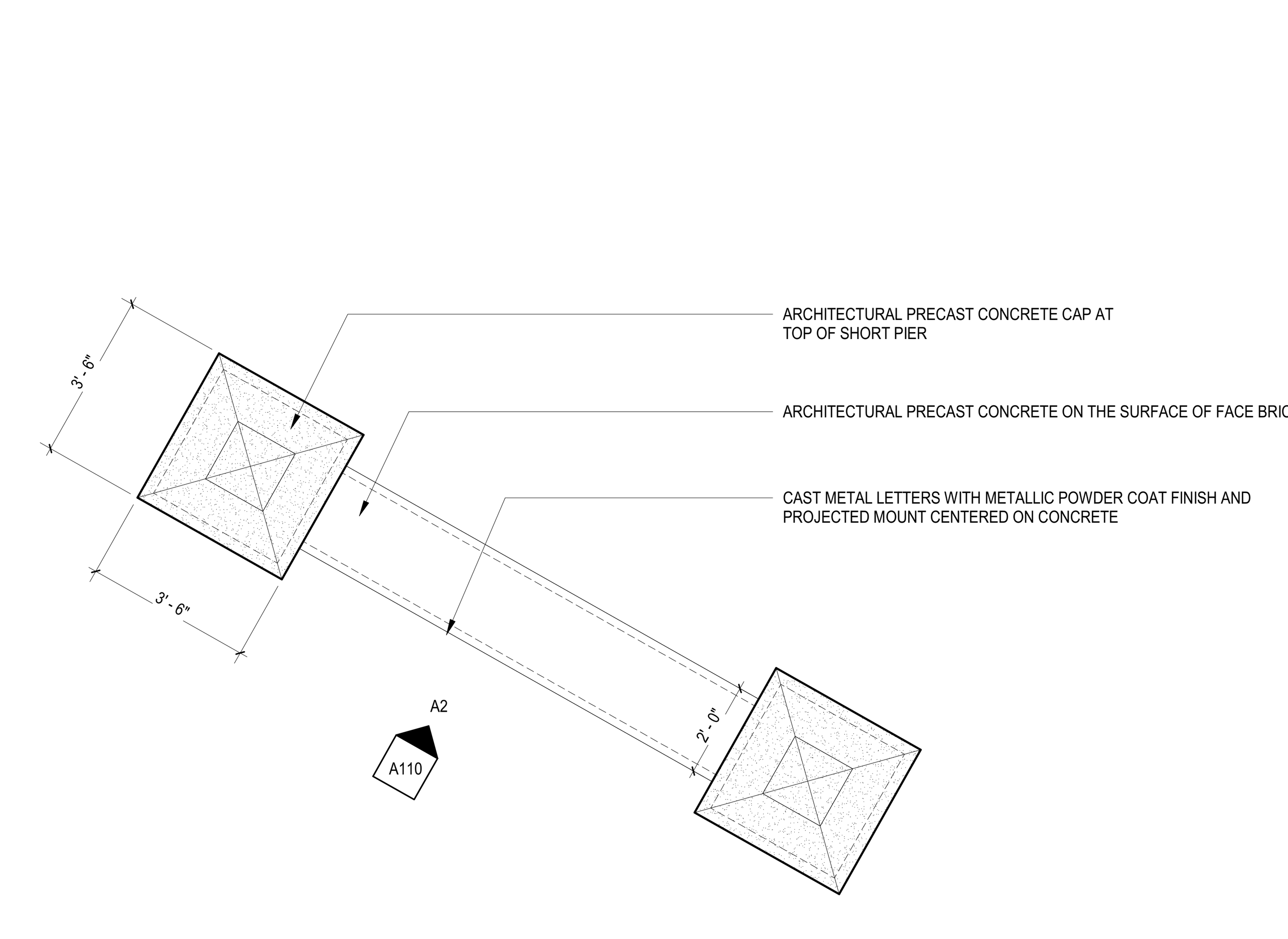


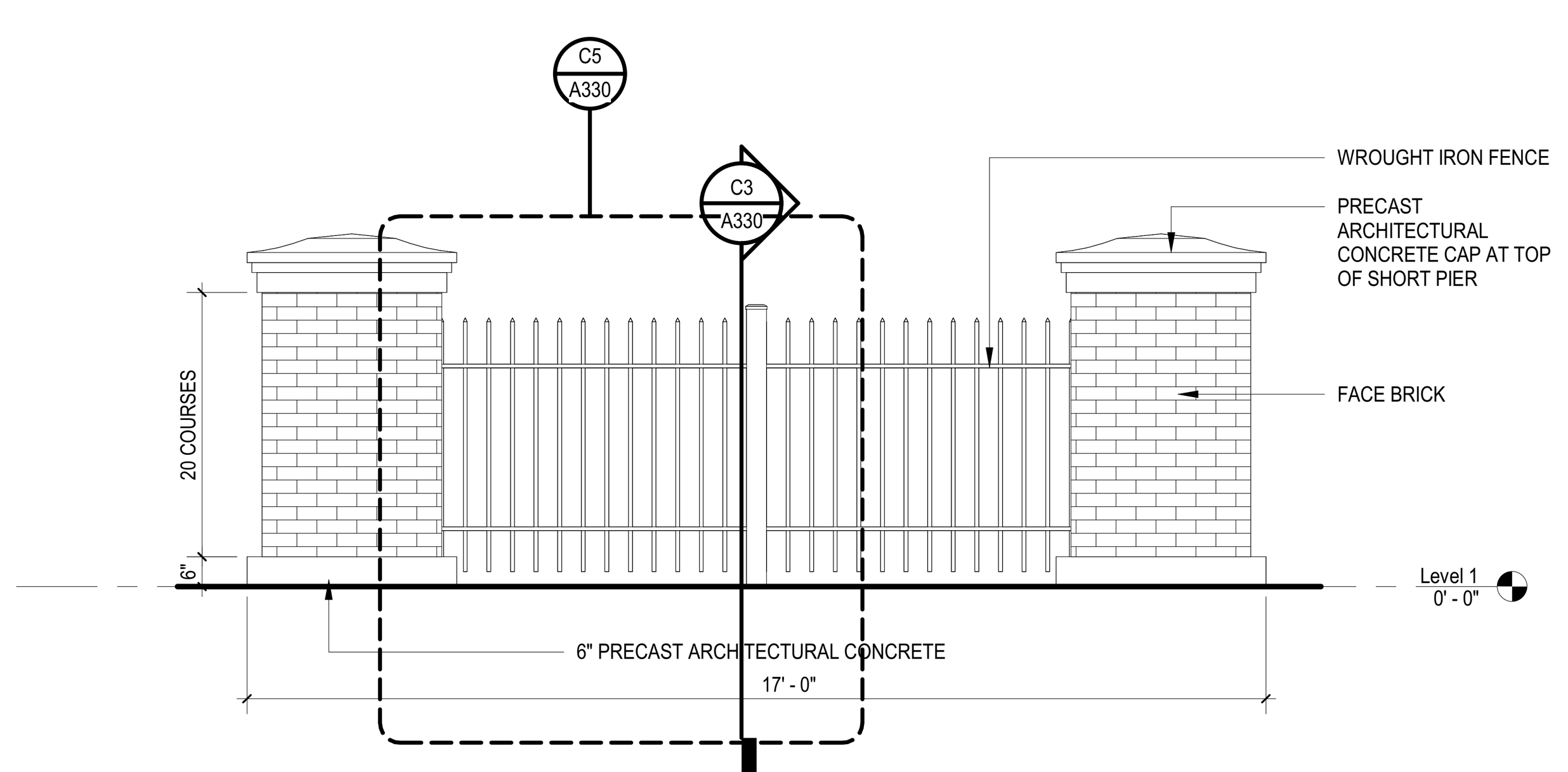
D5 / A110 **GATE 1 - 1 & GATE 1 - 2 - PLAN - SECTION**
3/8" = 1'-0"



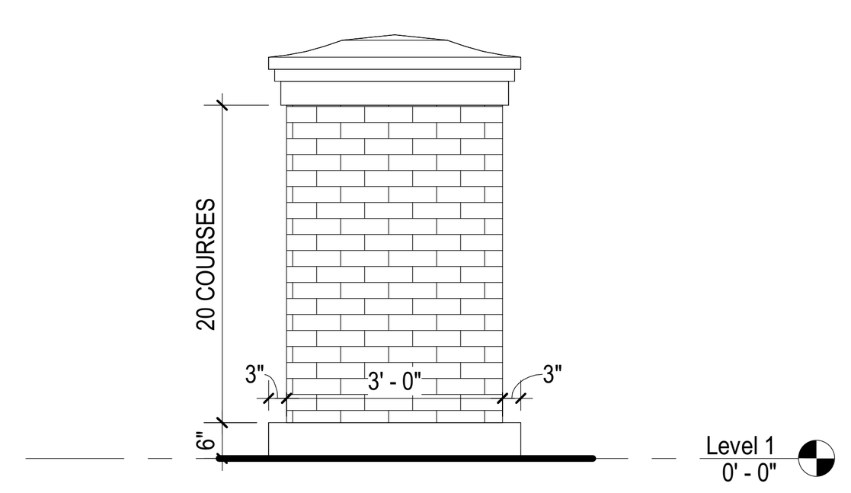


C5 / A110 **GATE 1 - 1 & GATE 1 - 2 - PLAN - FROM ABOVE**
3/8" = 1'-0"

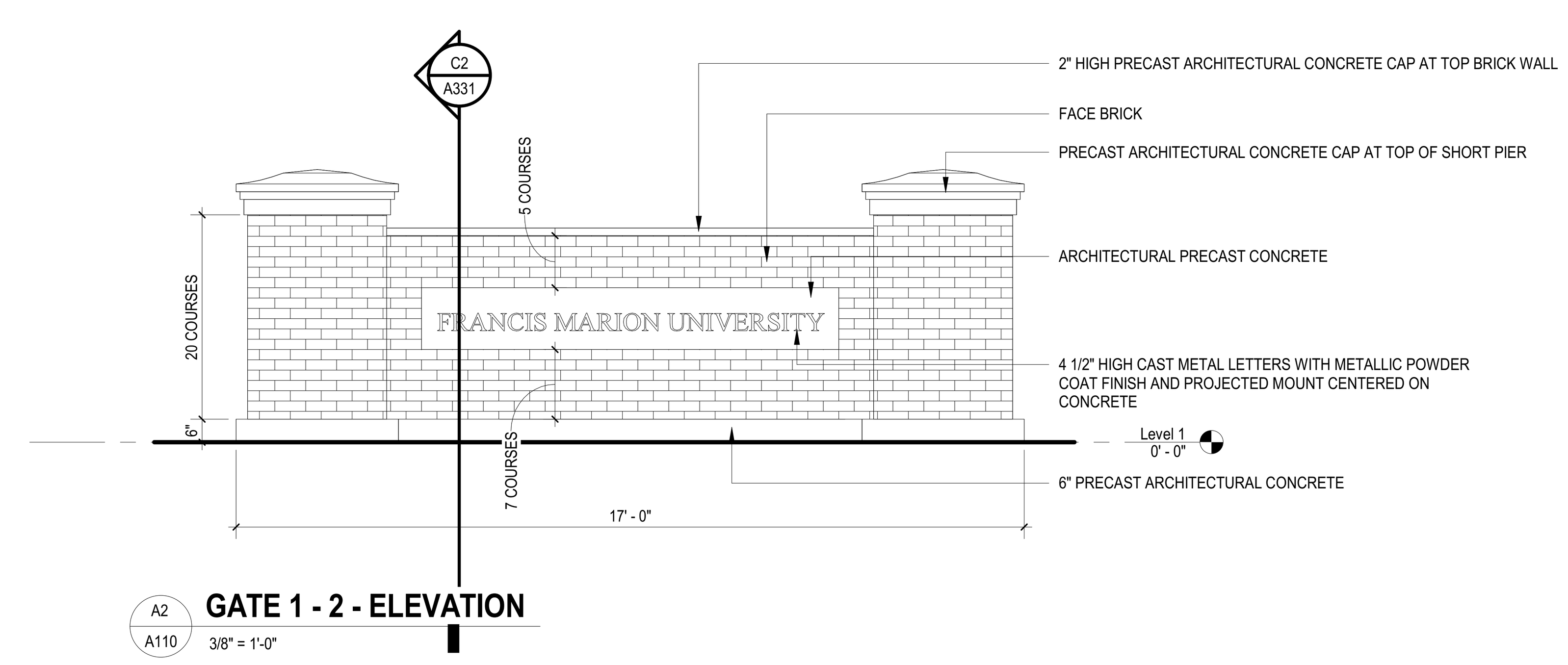




A5 / A110 **GATE 1 - 1 - ELEVATION**
3/8" = 1'-0"

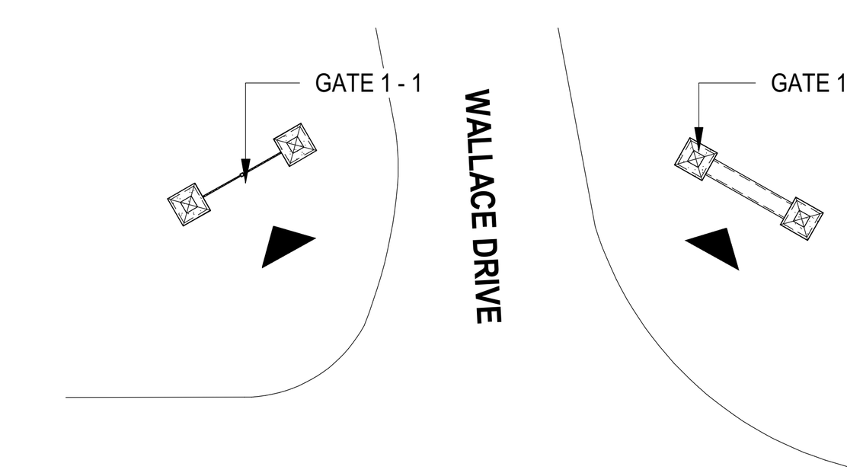


A3 / A110 **SHORT PIER ELEVATION**
3/8" = 1'-0"



A2 / A110 **GATE 1 - 2 - ELEVATION**
3/8" = 1'-0"

KEY PLAN



FRANCIS MARION RD
S.C. HIGHWAY 327

PROJECT NORTH

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA J. SANDERS TATE COLUMBIA, SC 2813 REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

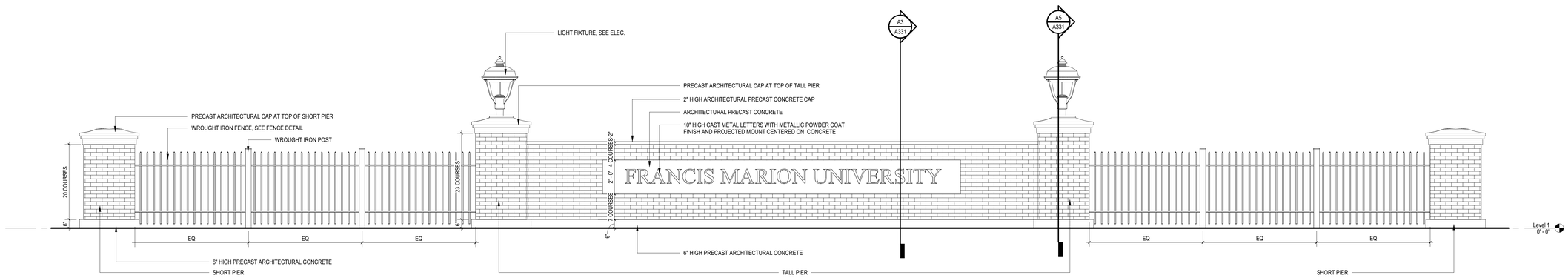
SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

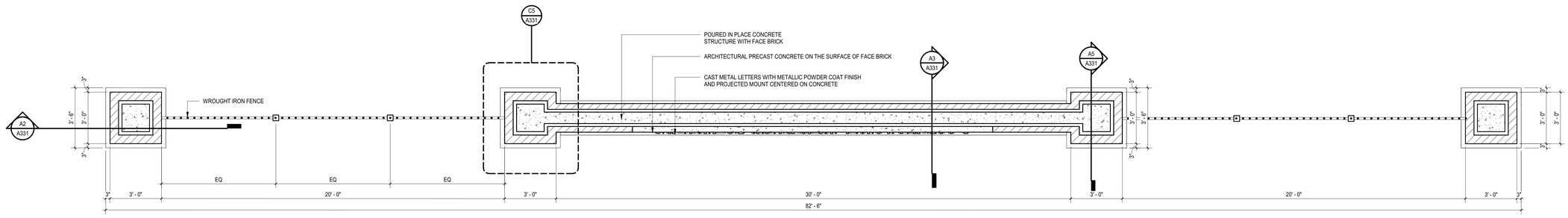
SHEET TITLE:
GATE 1 PLAN AND ELEVATIONS

SHEET NO. A110
PROJ. NO. 023087.00



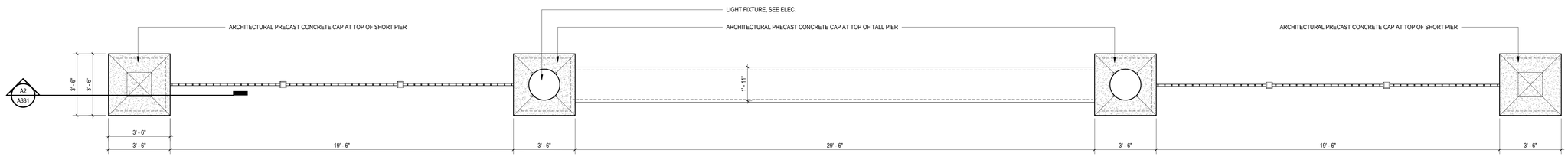
D5 A120 **GATE 2 - CENTER GATE ELEVATION**

3/8" = 1'-0"



C5 A120 **GATE 2 PLAN - SECTION**

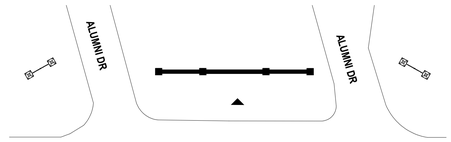
3/8" = 1'-0"



B5 A120 **GATE 2 PLAN - FROM ABOVE**

3/8" = 1'-0"

KEY PLAN



FRANCIS MARION RD
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PROJECT NORTH

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CONSULTANT LOGO

SEALS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

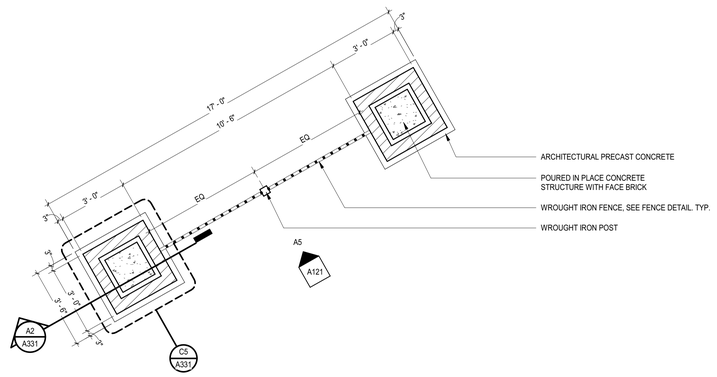
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

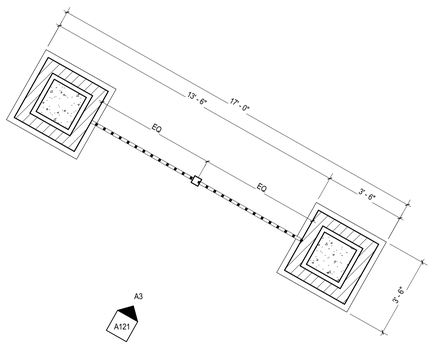
GATE 2 PLAN AND ELEVATIONS

SHEET NO. A120

PROJ. NO. 023087.00



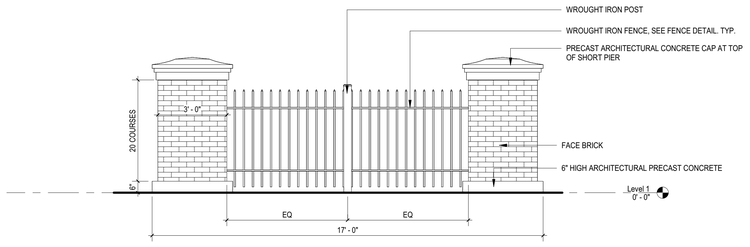
C5 / A121 **GATE 2 - 2 - 1 PLAN - SECTION**
3/8" = 1'-0"



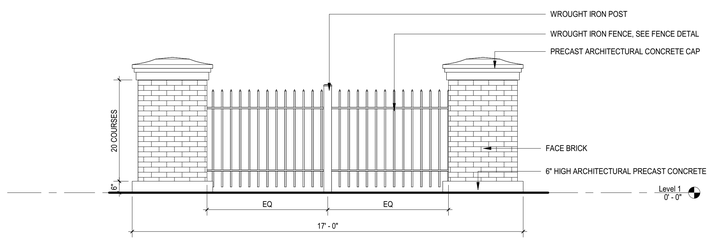
C3 / A121 **GATE 2 - 2 - 2 PLAN - SECTION**
3/8" = 1'-0"

B5 / A121 **GATE 2 - 2 - 1 PLAN - FROM ABOVE**
3/8" = 1'-0"

B3 / A121 **GATE 2 - 2 - 2 PLAN - FROM ABOVE**
3/8" = 1'-0"

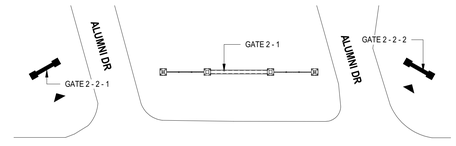


A5 / A121 **GATE 2 - 2 - 1 ELEVATION**
3/8" = 1'-0"



A3 / A121 **GATE 2 - 2 - 2 ELEVATION**
3/8" = 1'-0"

KEY PLAN



PROJECT NORTH

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA
V. SANDERS STATE
COLUMBIA, SC
2813
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
McMILLAN PAZDAN SMITH, LLC
GREENVILLE, SC
100573
REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

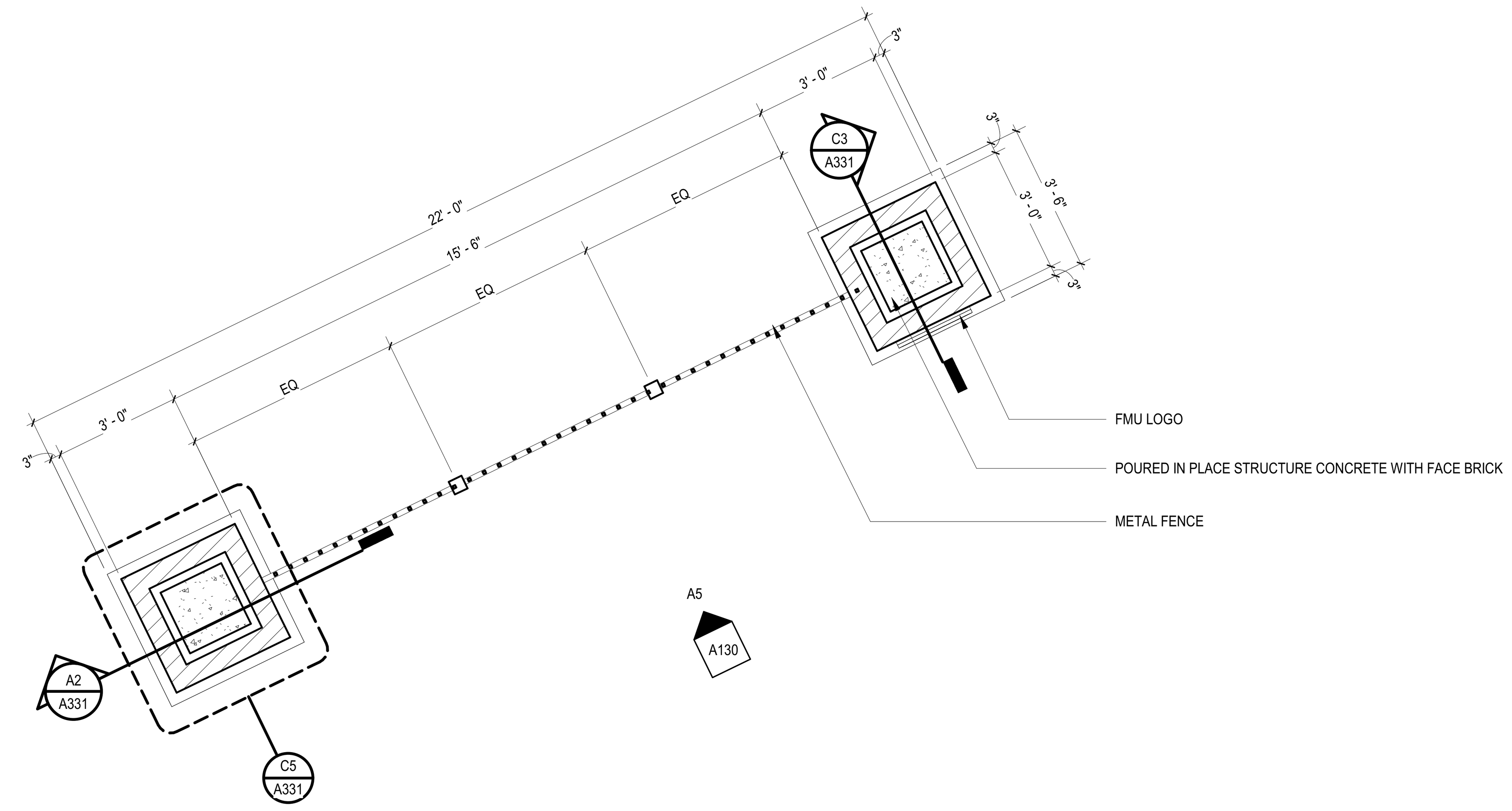
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

GATE 2-2 PLAN AND ELEVATIONS

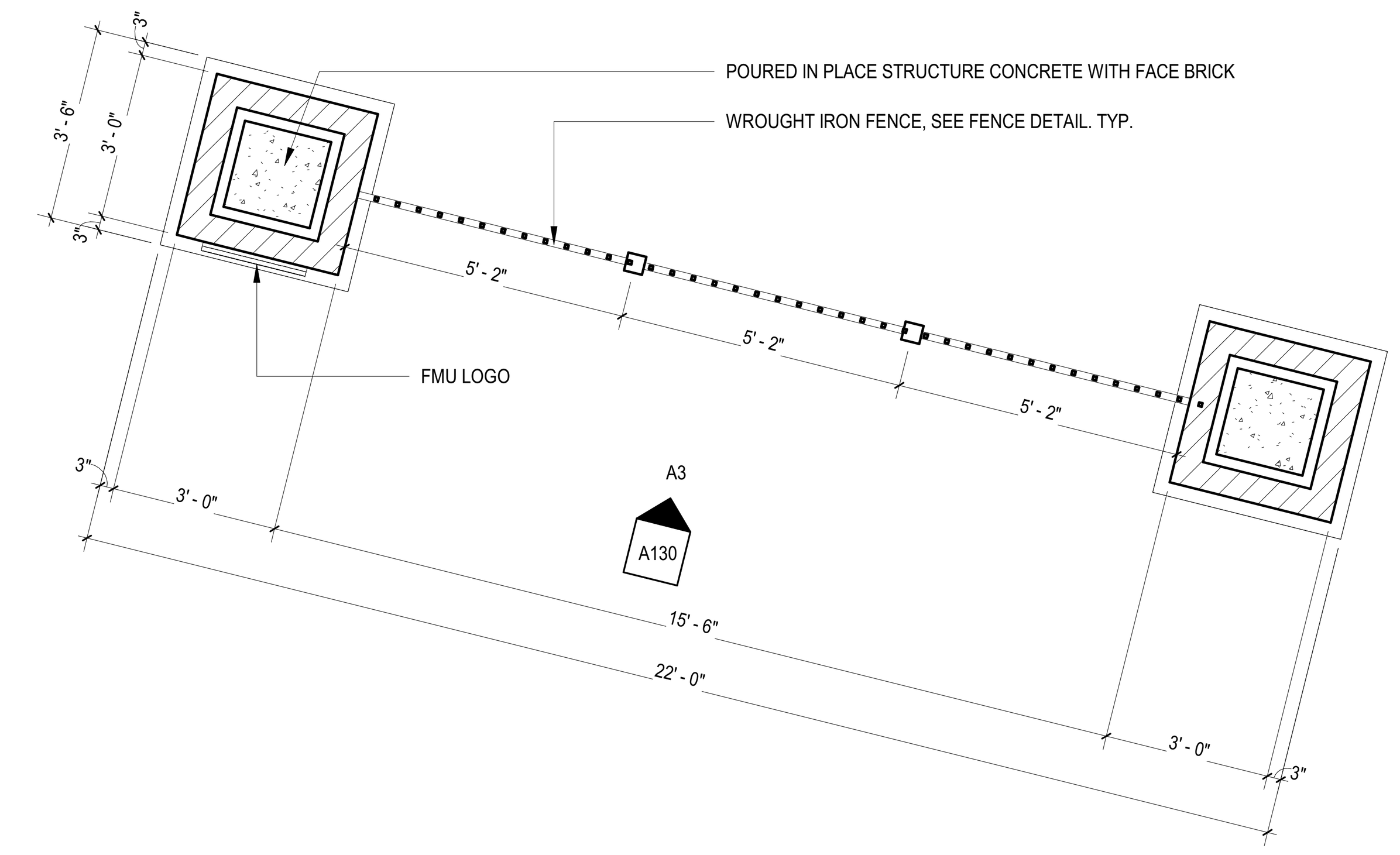
SHEET NO. A121

PROJ. NO. 023087.00



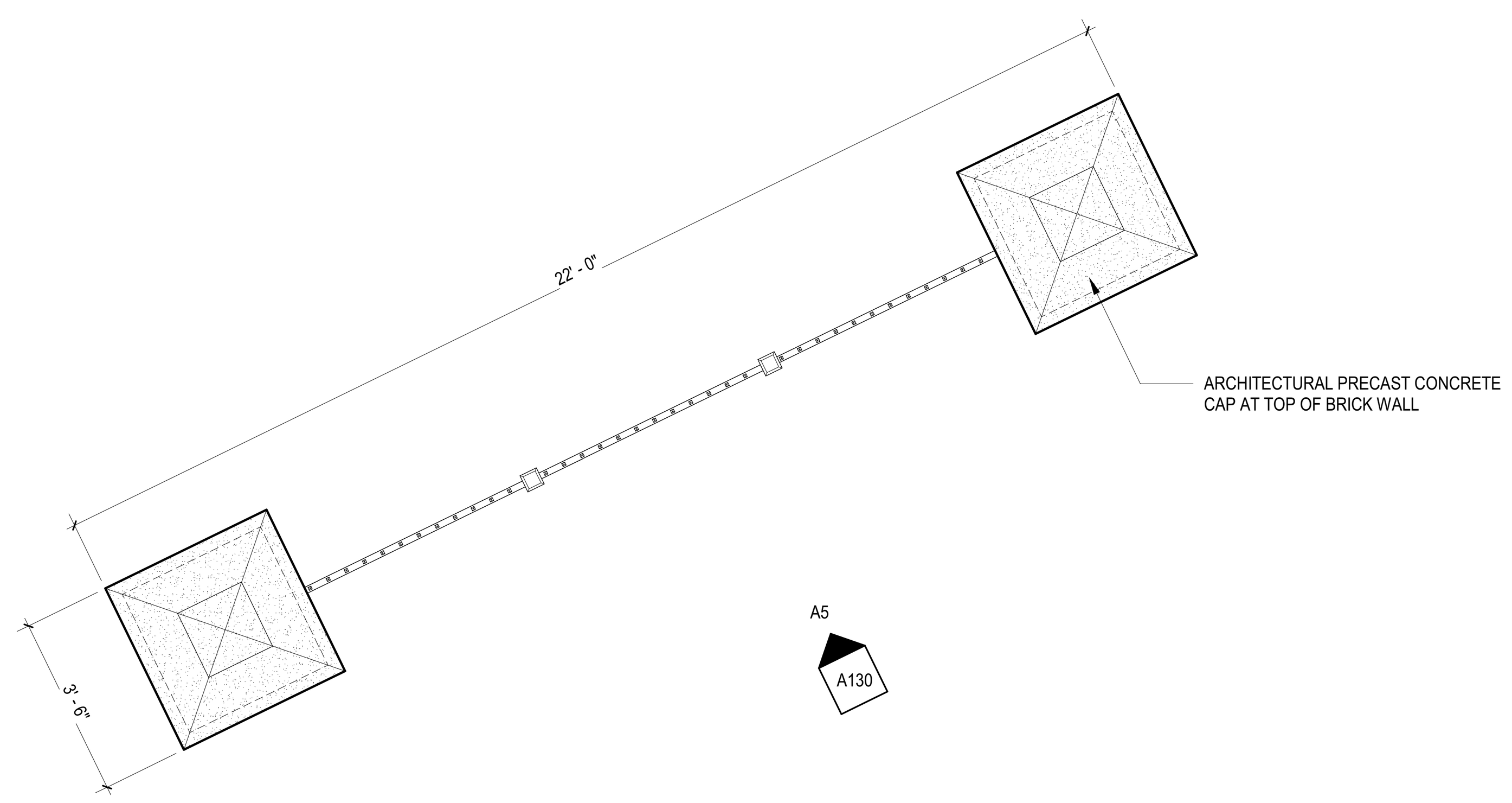
GATE 3-1 PLAN - SECTION

D5 / A130 — 3/8" = 1'-0"



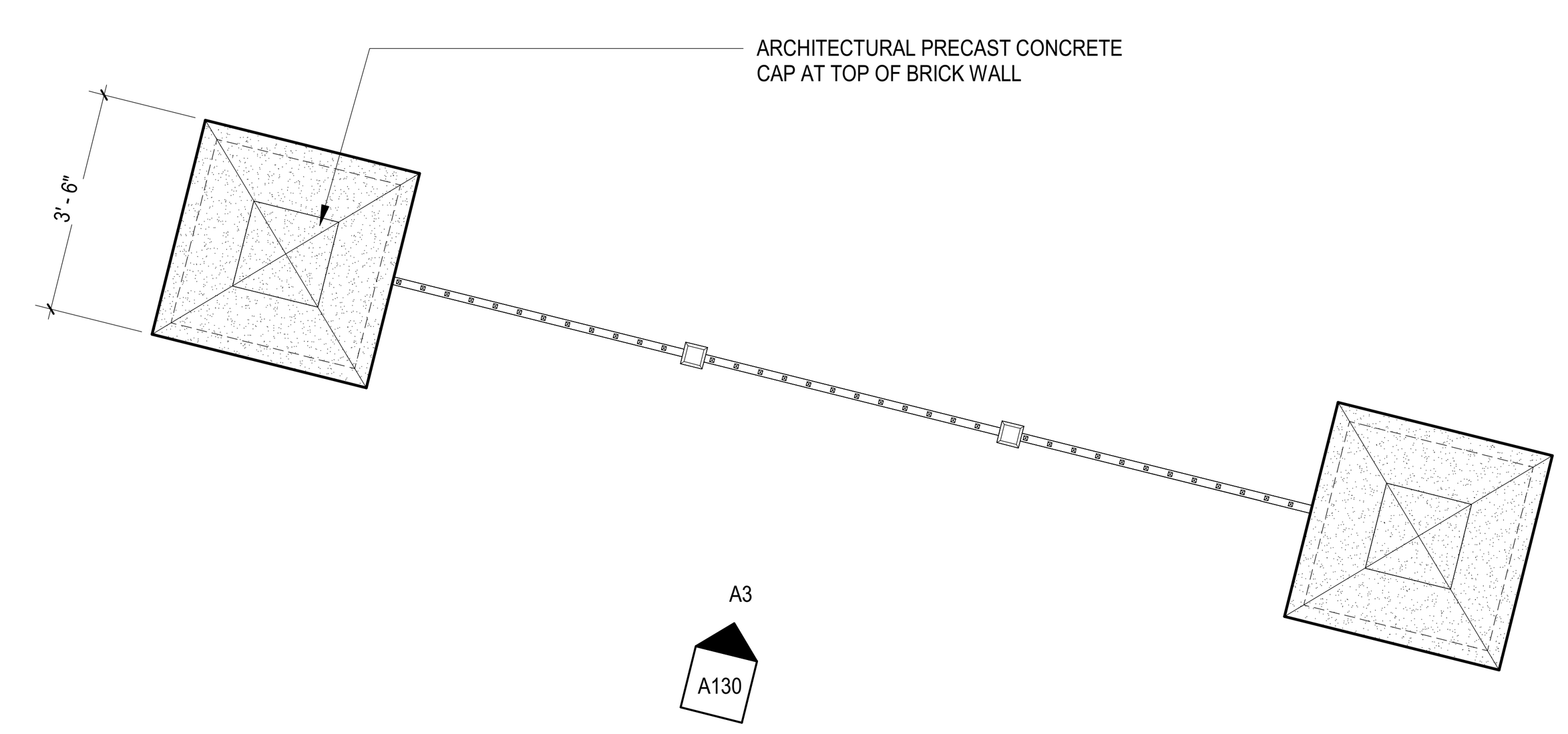
GATE 3 - 2 PLAN - SECTION

D3 / A130 — 3/8" = 1'-0"



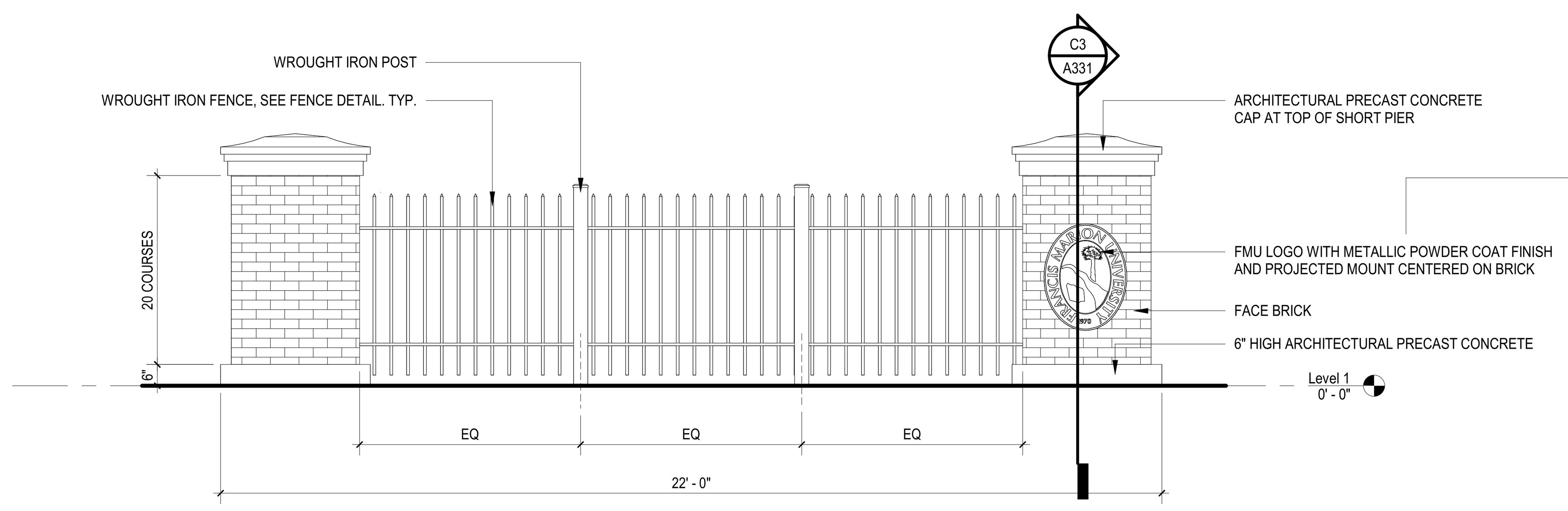
GATE 3 - 1 PLAN - FROM ABOVE

C5 / A130 — 3/8" = 1'-0"



GATE 3 - 2 PLAN - FROM ABOVE

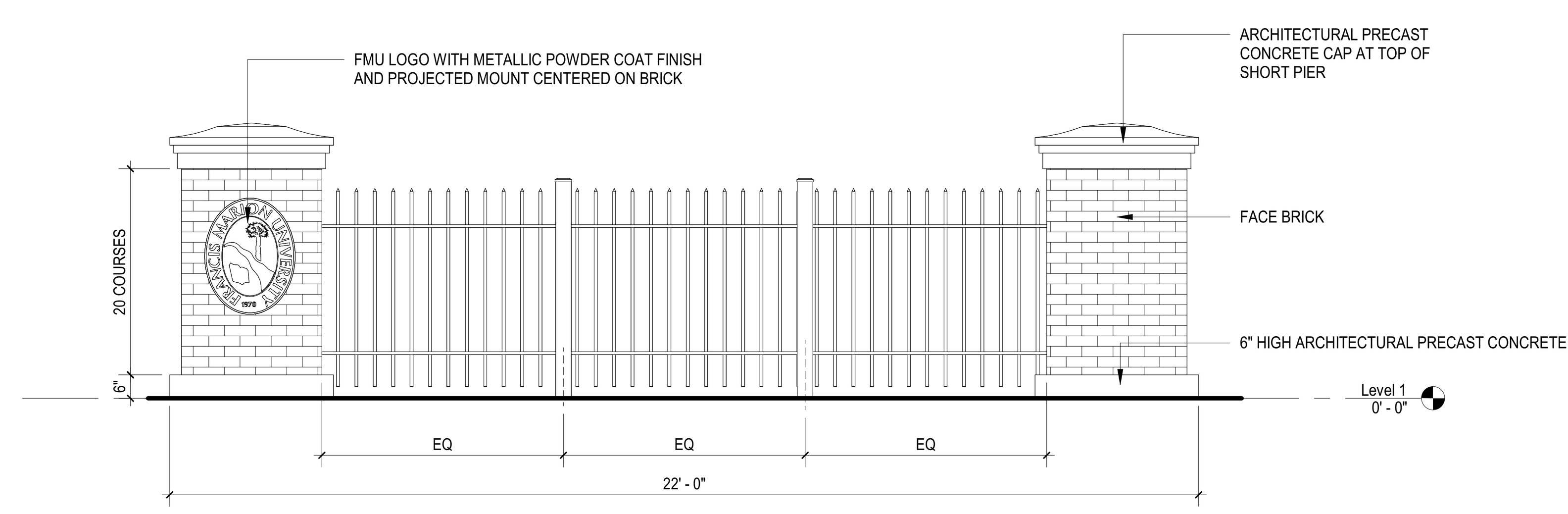
C3 / A130 — 3/8" = 1'-0"



WROUGHT IRON POST
WROUGHT IRON FENCE, SEE FENCE DETAIL, TYP.
C3
A331
ARCHITECTURAL PRECAST CONCRETE
CAP AT TOP OF SHORT PIER
FMU LOGO WITH METALLIC POWDER COAT FINISH
AND PROJECTED MOUNT CENTERED ON BRICK
FACE BRICK
6" HIGH ARCHITECTURAL PRECAST CONCRETE
20 COURSES
Level 1
0' - 0"
EQ
EQ
EQ
22' - 0"
FRANCIS MARION UNIVERSITY
1970

GATE 3 - 1 ELEVATION

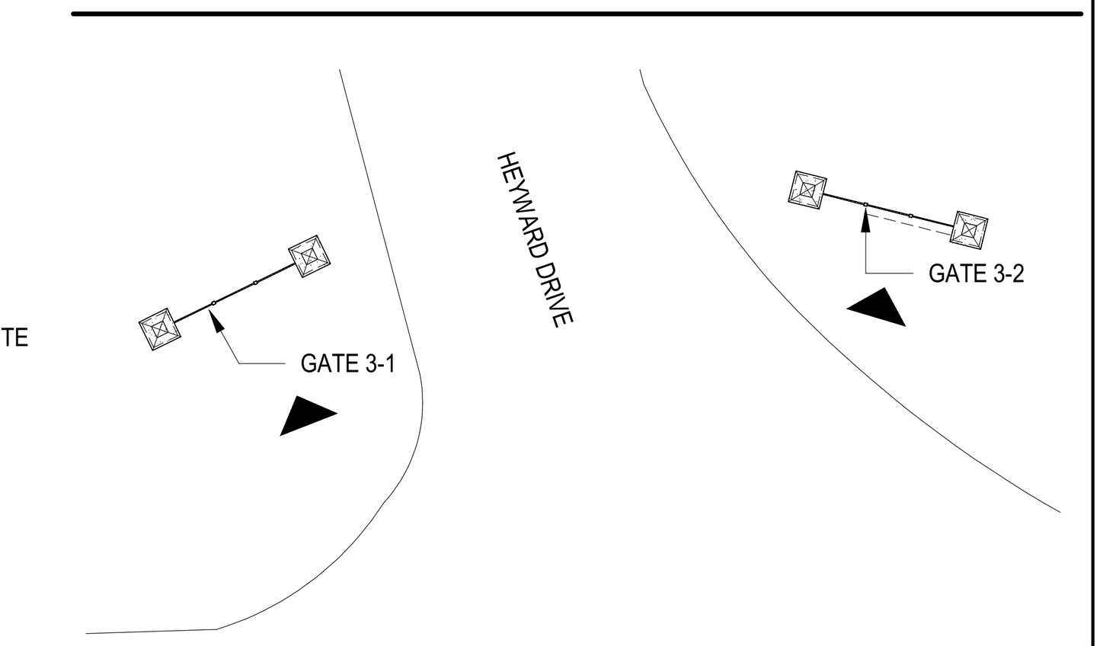
A5 / A130 — 3/8" = 1'-0"



GATE 3 - 2 ELEVATION

A3 / A130 — 3/8" = 1'-0"

KEY PLAN



FRANCIS MARION RD

S.C. HIGHWAY 327

PROJECT NORTH

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA — J. SANDERS TATE — COLUMBIA, SC — 2813 — REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA — McMILLAN PAZDAN SMITH, LLC — GREENVILLE, SC — 100573 — REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

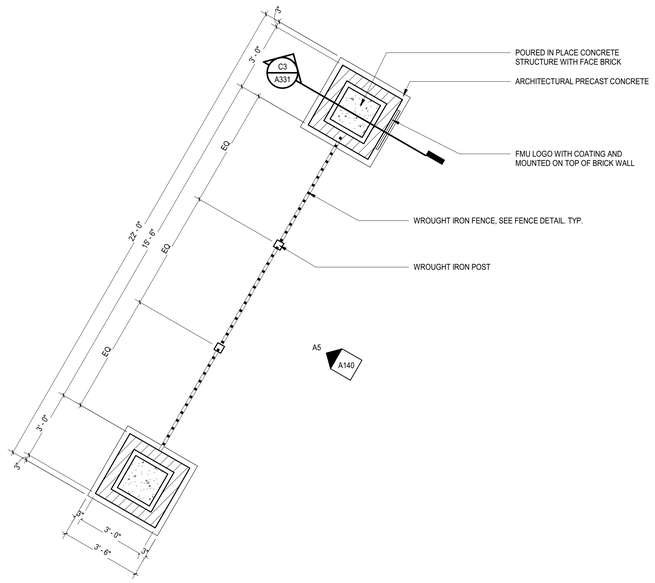
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

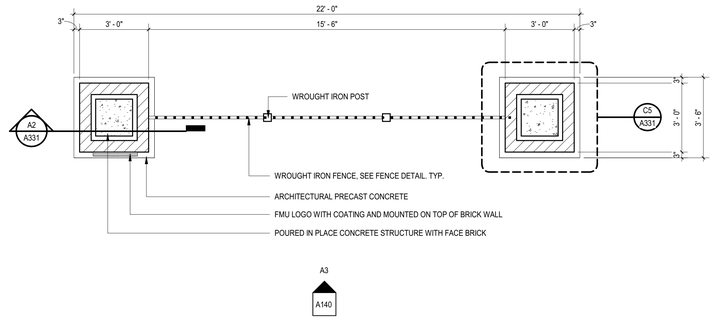
GATE 3 PLANS AND ELEVATIONS

SHEET NO.: A130

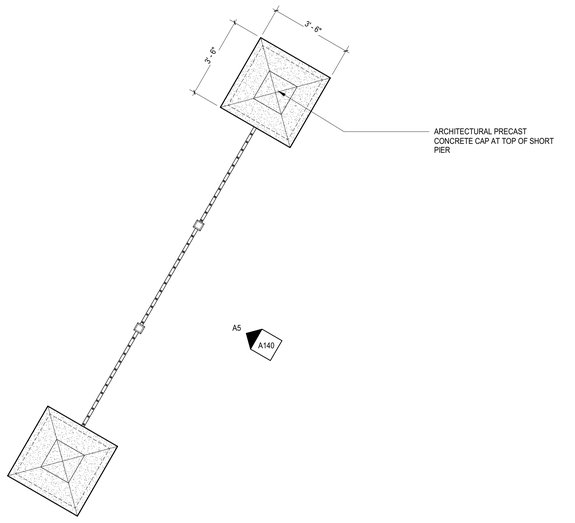
PROJ. NO.: 023087.00



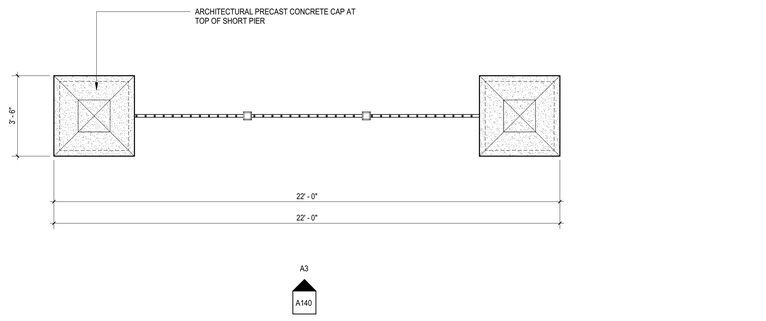
C5 / A140 **GATE 4-1 PLAN -SECTION**
3/8" = 1'-0"



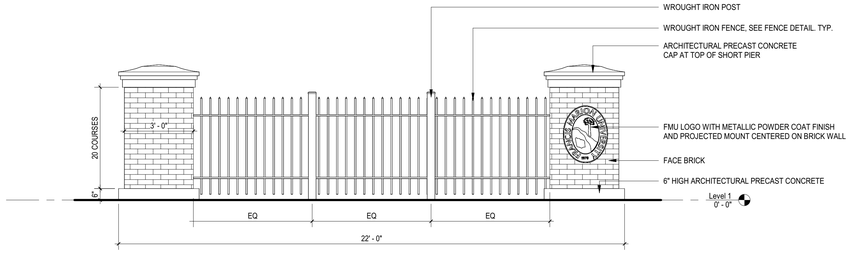
C3 / A140 **GATE 4-2 PLAN - SCETION**
3/8" = 1'-0"



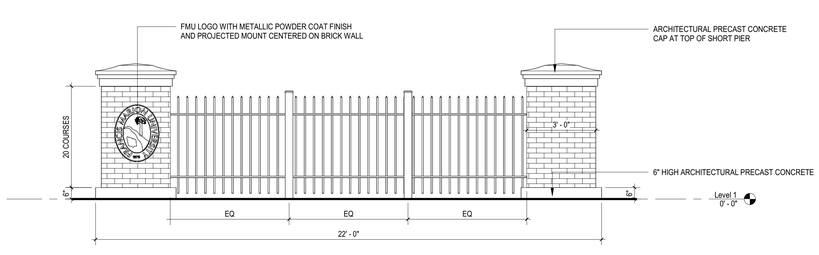
B5 / A140 **GATE 4-1 PLAN - FROM ABOVE**
3/8" = 1'-0"



B3 / A140 **GATE 4-2 PLAN - FROM ABOVE**
3/8" = 1'-0"

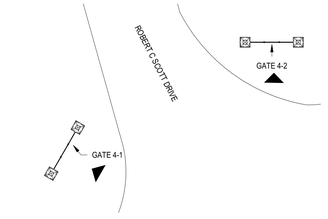


A5 / A140 **GATE 4-1 ELEVATION**
3/8" = 1'-0"



A3 / A140 **GATE 4-2 ELEVATION**
3/8" = 1'-0"

KEY PLAN



PROJECT NORTH

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA
V. SANDERS STATE
COLUMBIA, SC
2813
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
McMILLAN PAZDAN SMITH, LLC
GREENVILLE, SC
100573
REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

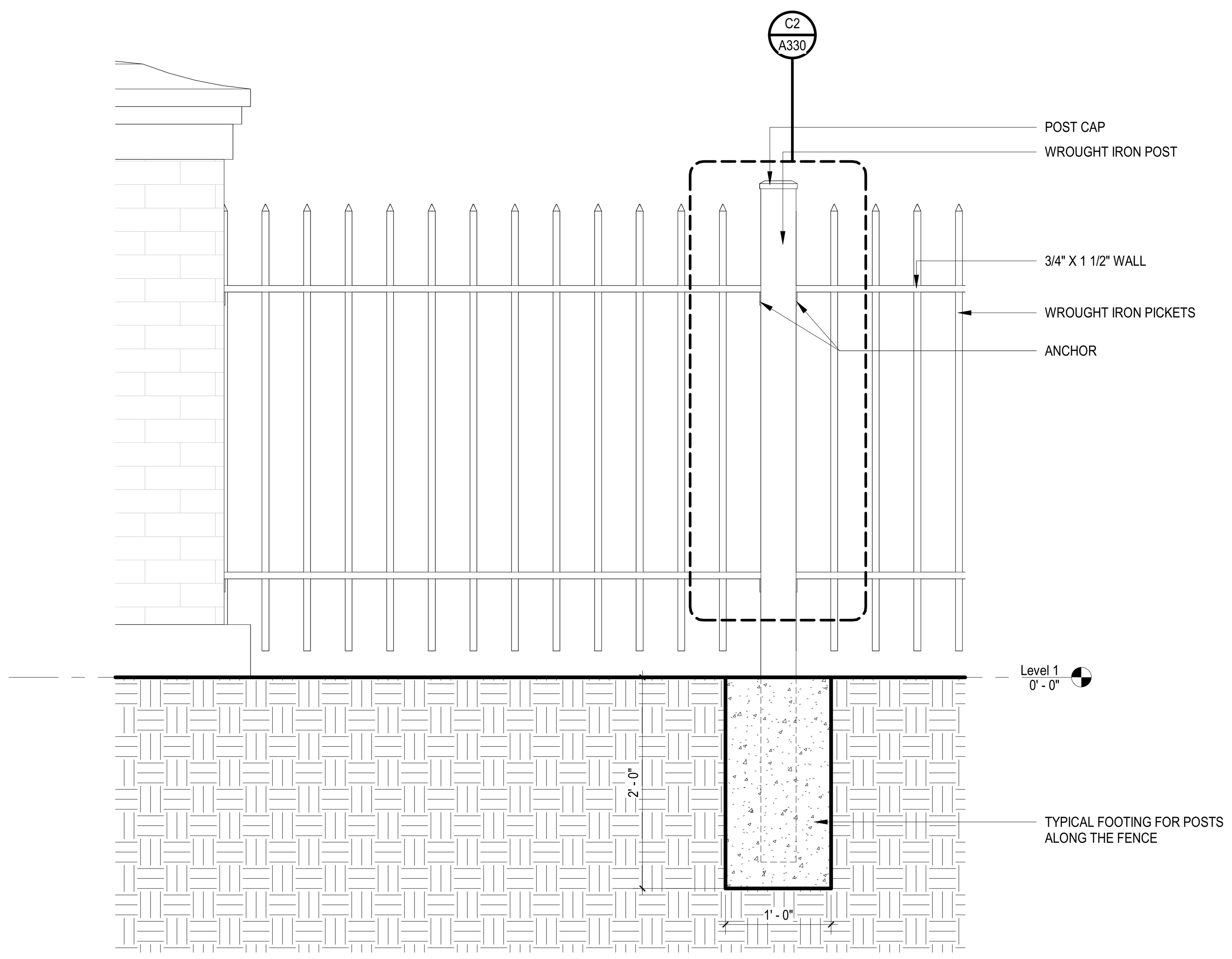
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

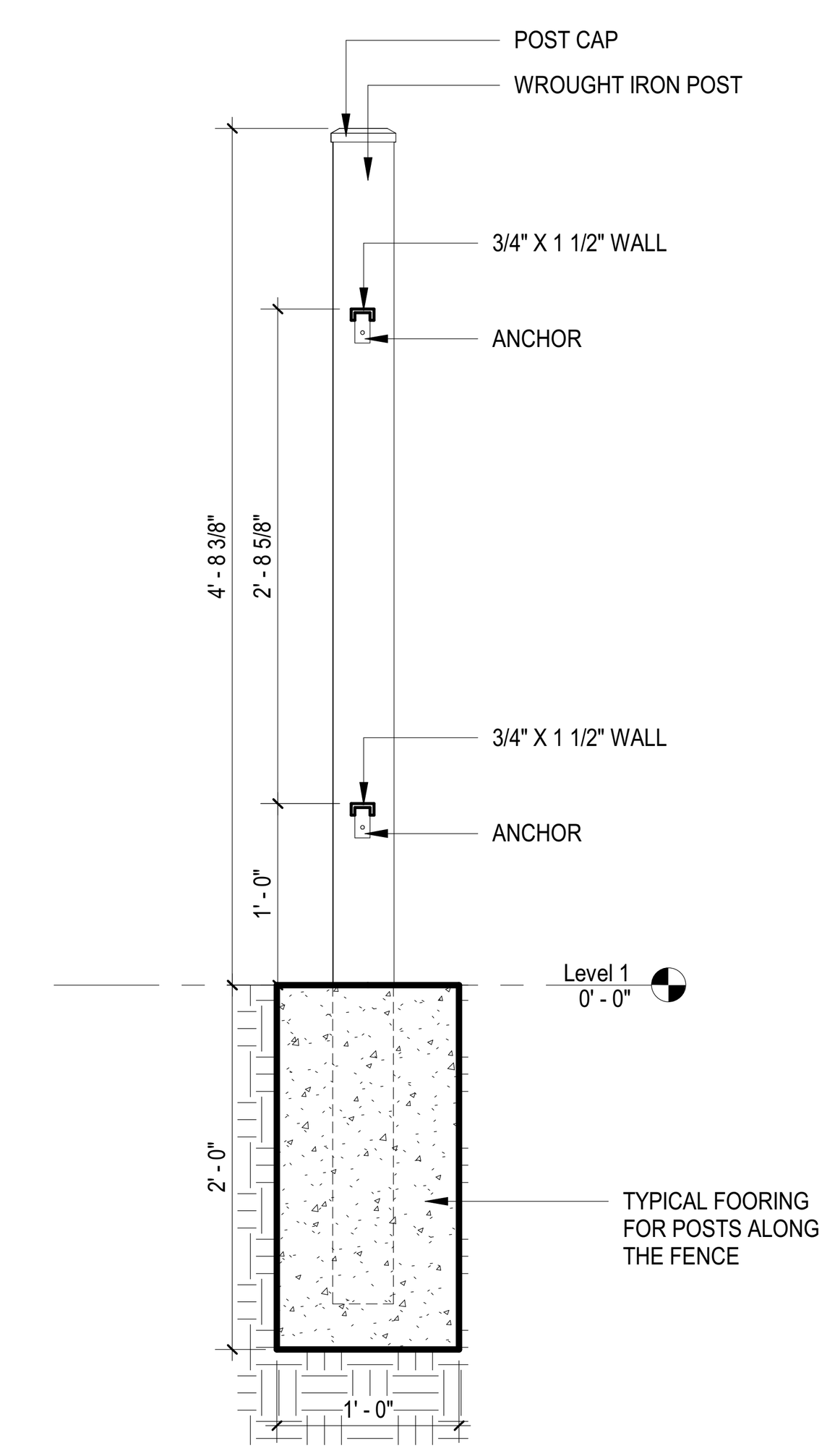
GATE 4 PLANS AND ELEVATIONS

SHEET NO. A140

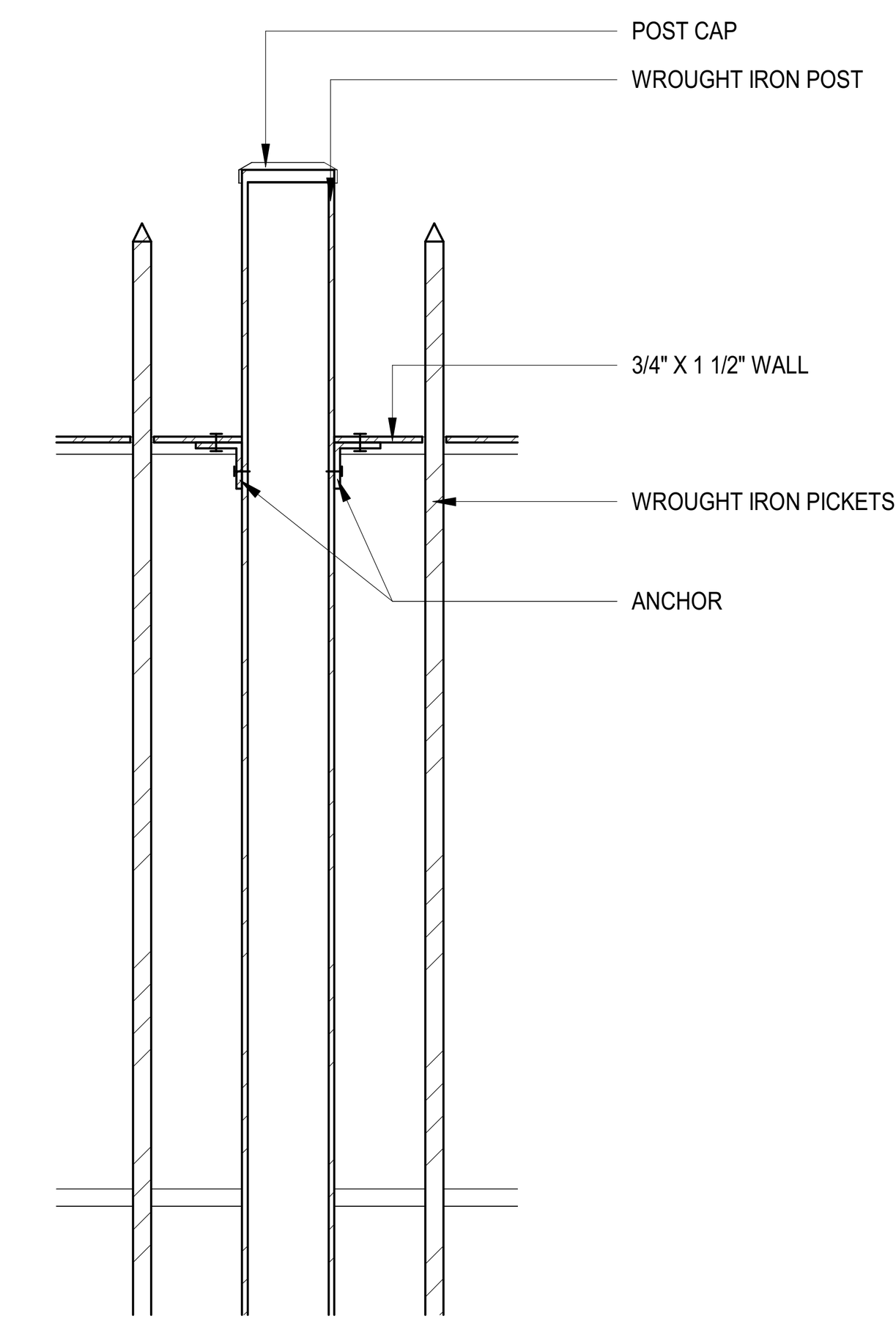
PROJ. NO. 023087.00



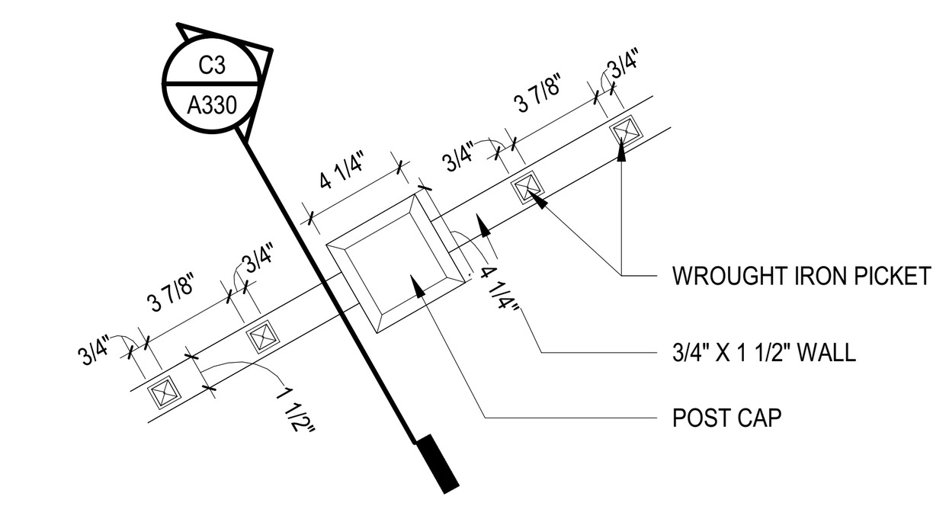
C5 A330 **FENCE DETAIL ELEVATION**
1" = 1'-0"



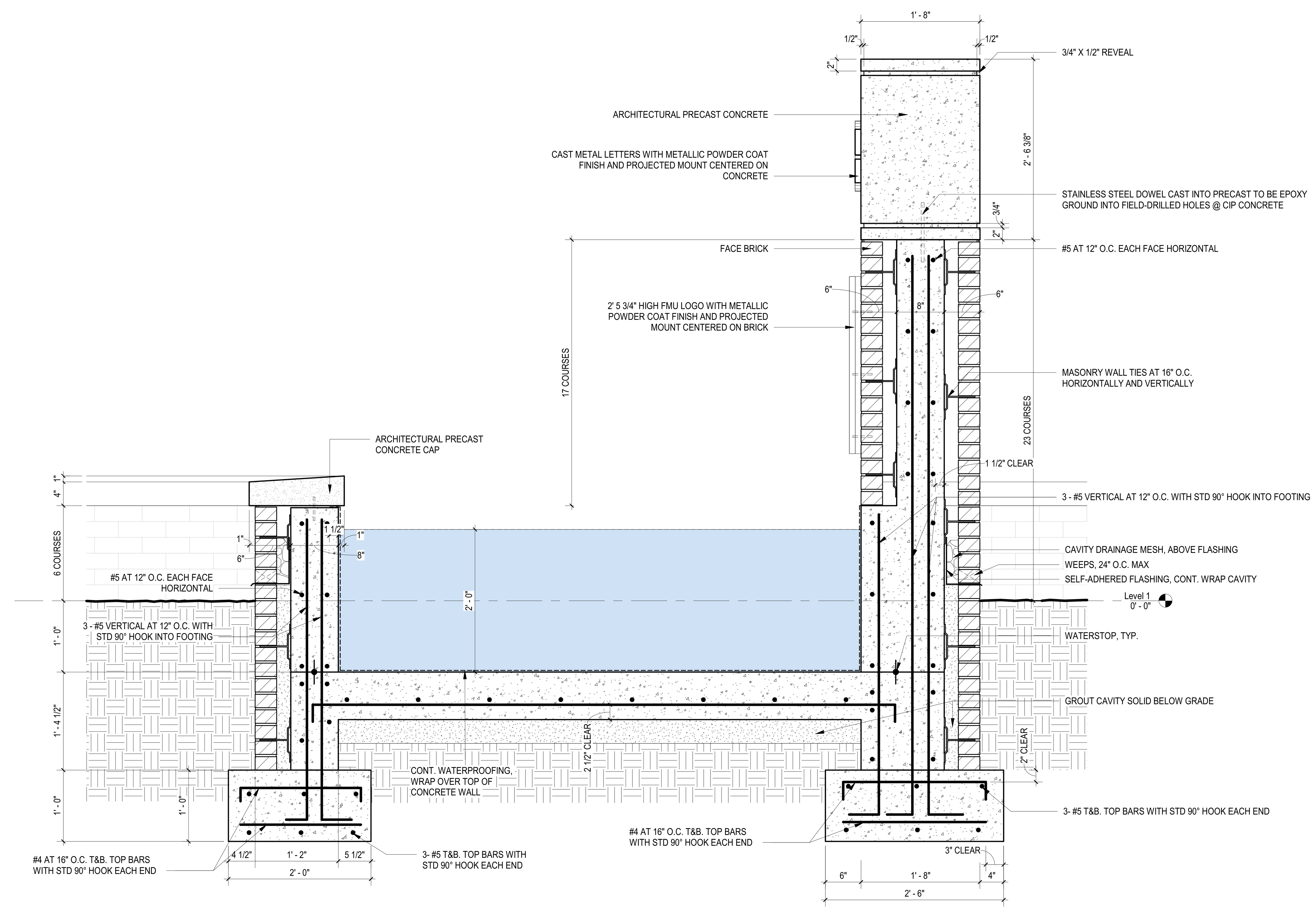
C3 A330 **FENCE SECTION**
1" = 1'-0"



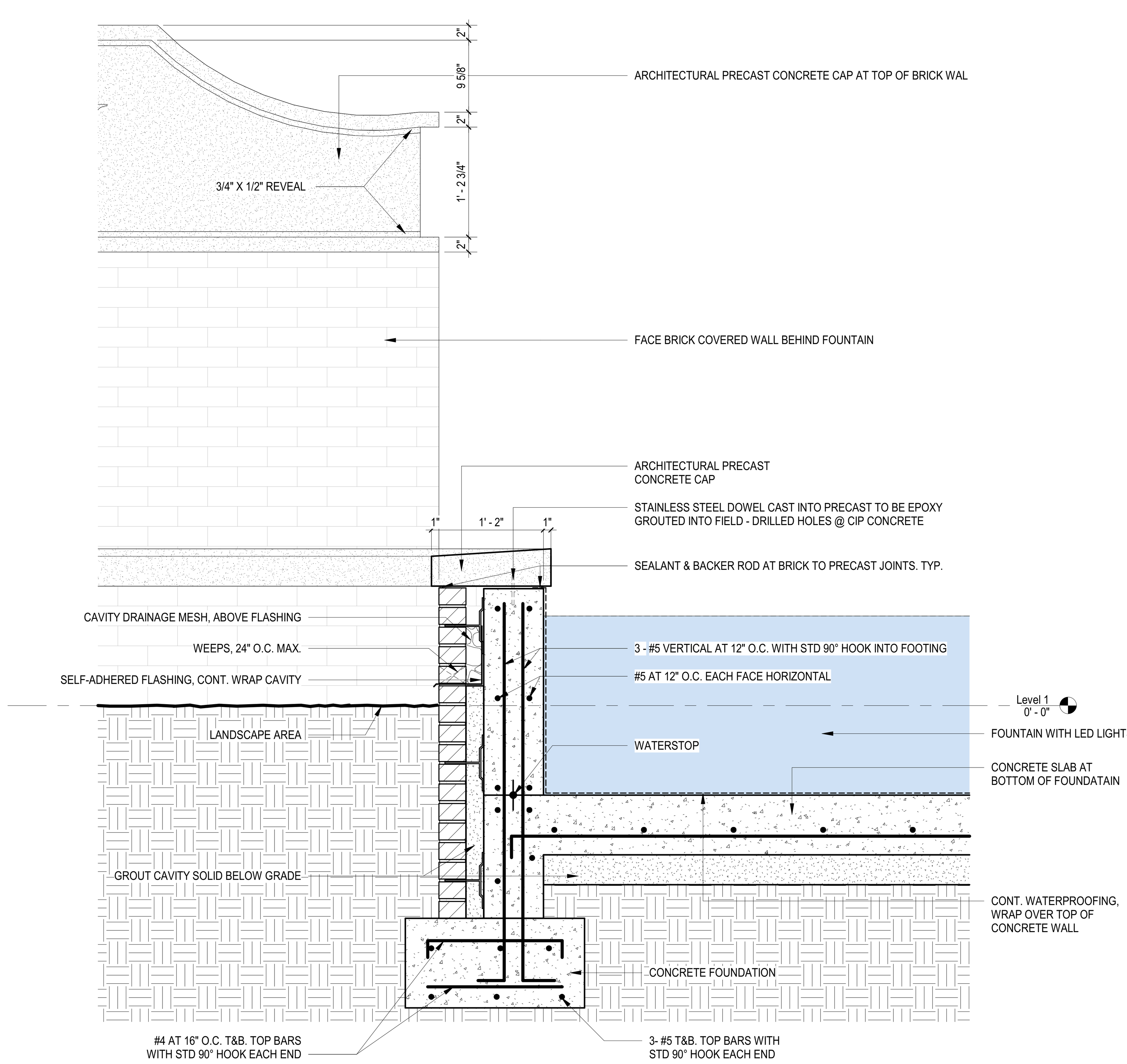
C2 A330 **FENCE DETAIL SECTION**
1 1/2" = 1'-0"



C1 A330 **ENLARGED FENCE PLAN**
1 1/2" = 1'-0"



A5 A330 **FOUNTAIN SECTION**
1" = 1'-0"



A2 A330 **FOUNTAIN SECTION 2**
1" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA J. SANDERS TATE COLUMBIA, SC 2813 REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573 REGISTERED ARCHITECTS

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

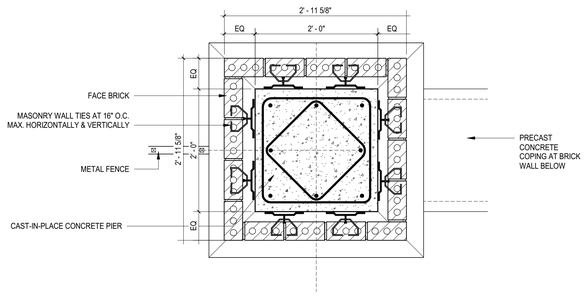
PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

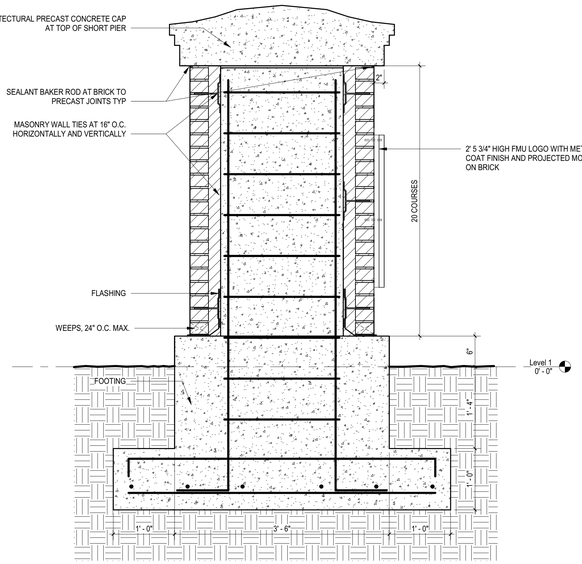
WALL SECTIONS

SHEET NO. PROJ. NO. 023087.00

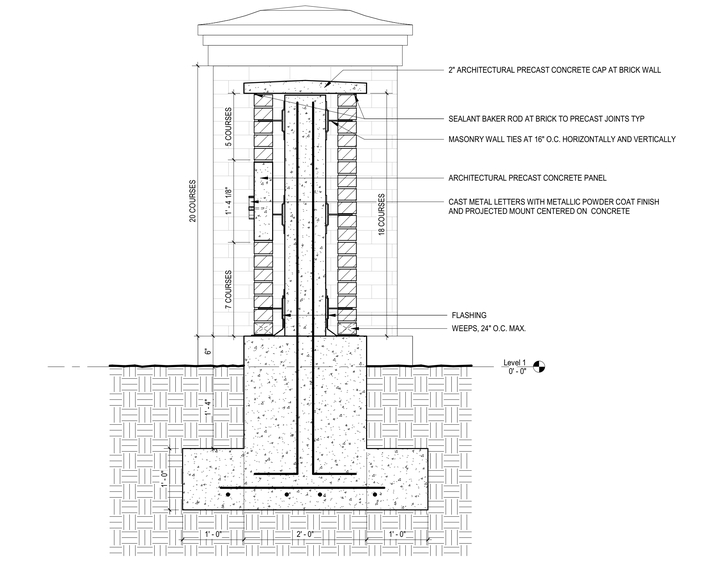
A330



C5 A331 **ENLARGE PIER PLAN DETAIL**
1" = 1'-0"



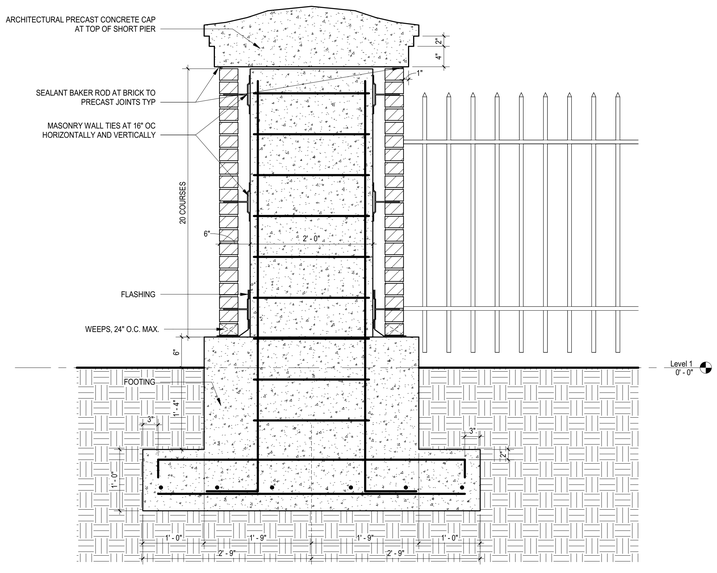
C3 A331 **SHORT PIER WITH LOGO**
1" = 1'-0"



C2 A331 **SHORT PIER WITH BRICK WALL - SECTION**
1" = 1'-0"

A5 A331 **TALL PIER SECTION**
1" = 1'-0"

A3 A331 **GATE 2 - WALL SECTION**
1" = 1'-0"



A2 A331 **SHORT PIER SECTION**
1" = 1'-0"

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CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA
V. SANDERS STATE
COLUMBIA, SC
2813
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STATE OF SOUTH CAROLINA
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FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS - GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE: S TATE
PROJECT ARCHITECT: S TATE
DRAWN BY: X GAO

SHEET TITLE:

WALL SECTIONS

SHEET NO. A331

PROJ. NO. 023087.00

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE (WALL MOUNTED @ 18"AFF)	SPD	SURGE PROTECTION DEVICE
	DUPLEX RECEPTACLE (GFI TYPE @ 18"AFF)		ELECTRICAL UTILITY METER & C/T CABINET
	DUPLEX RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)		PANELBOARD (SURFACE MOUNTED)
	QUAD RECEPTACLE (GFI TYPE @ 18"AFF)		PANELBOARD (RECESS MOUNTED)
	QUAD RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)		CONTROL PANEL (SURFACE MOUNTED)
	MULTI-PHASE RECEPTACLE (AS NOTED ON PLAN)		DISCONNECT SWITCH, (REFER TO EQUIPMENT CONNECTION SCHEDULE)
	JUNCTION BOX (WALL MTD)		DISCONNECT SWITCH, (NON PROTECTED)
#	KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET)	HH	HANDHOLE

GENERAL "ELECTRICAL" NOTES

1 BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.

2 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4"C.

3 PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.

4 FEEDER CONDUITS AND BRANCH CIRCUITS ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.

5 THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:

5.1 A COMMON NEUTRAL SHALL NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS UNLESS DIRECTION IS PROVIDED BY THE ENGINEER IN WRITTING FOR A SPECIFIC APPLICATION.

5.2 MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.

5.3 BRANCH CIRCUIT, FEEDER & COMMUNICATION CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.

5.4 A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.

6 COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUIT WITH UNDERGROUND UTILITIES.

7 THE USE OF MC CABLE IS NOT ALLOWED.

8 WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL".

9 ELECTRICAL CONTRACTOR SHALL PROVIDE WATER PROOFING FOR ALL CONDUIT.

GENERAL "DEMOLITION" NOTES

1 ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

2 REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.

3 ELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.

4 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION

5 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE-INSTALLED ON NEW CEILING IN SAME LOCATION.

GENERAL EXISTING CONDITION NOTES

1 AREAS OF WORK EXIST FOR THIS PROJECT WHICH ARE NOT ACCESSIBLE OR HAVE LIMITED ACCESS DURING DESIGN. AS SUCH CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.

5 WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.

10 WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

GENERAL "POWER" NOTES

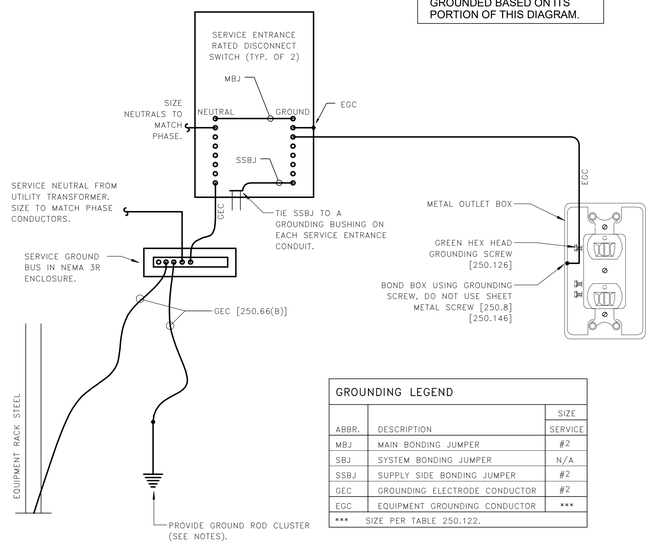
1 ALL BRANCH CIRCUITS INDICATED ON THESE PLANS TO BE LARGER THAN NO. 12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.

2 PROVIDE AND INSTALL AN ENGRAVED LAMINATED PLASTIC NAMEPLATE ON EACH ITEM OF ELECTRICAL EQUIPMENT SERVING MECHANICAL EQUIPMENT WHICH MATCH MECHANICAL DESCIPTIONS, TO INDICATE THE DESIGNATION OF THE UNIT ON THE PLANS & THE BRANCH CIRCUIT SERVING THE EQUIPMENT.

3 PROVIDE NEMA CONFIGURATION RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.

4 PROVIDE ENGRAVED FACEPLATES USING 1/8" HIGH BLACK LETTERS ON COVER PLATE OF ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS CONNECTED.

DIAGRAM PROVIDES OVERALL VIEW OF BUILDING GROUNDING SYSTEM. EQUIPMENT SHALL BE GROUNDED BASED ON ITS PORTION OF THIS DIAGRAM.



GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE SERVICE
MBJ	MAIN BONDING JUMPER	#2
SBJ	SYSTEM BONDING JUMPER	N/A
SSBJ	SUPPLY SIDE BONDING JUMPER	#2
GEC	GROUNDING ELECTRODE CONDUCTOR	#2
EGC	EQUIPMENT GROUNDING CONDUCTOR	***

*** SIZE PER TABLE 250.122.

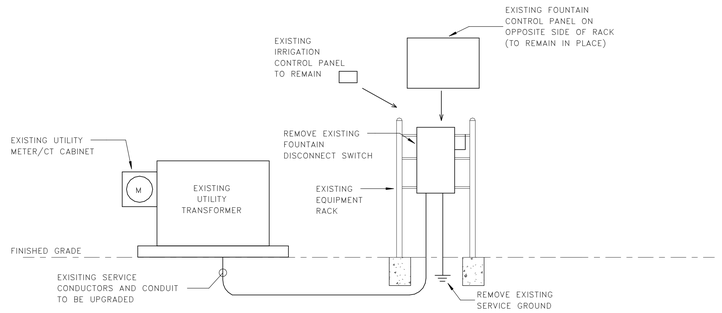
GROUNDING NOTES:

1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. THE GROUND ROD CLUSTER FOR THE SERVICE GROUND SHALL CONSIST OF THREE 3/4" X 10'-0" COPPER CLAD STEEL GROUND RODS. THEY SHALL BE DRIVEN IN A TRIANGULAR CONFIGURATION APPROXIMATELY 20' APART AND INTER-CONNECTED IN DELTA WITH A NO. 4/0 BARE COPPER CONDUCTOR WELDED TO RODS. TOPS OF THE RODS SHALL BE 12" BFG. CONNECTION TO THE RODS SHALL BE WITH EXOTHERMIC WELDS. PROVIDE TEST WELL COVER AT ALL ROD LOCATIONS.
4. PROVIDE A GROUND WIRE IN ALL CONDUITS.
5. EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT.
6. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
7. PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS, SIZE AS A GEC [250.80]. THIS INCLUDES RIGID STEEL ELBOWS ON PVC CONDUIT.
8. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
9. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148] OR WHERE A DEVICE IS INSTALLED.
10. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

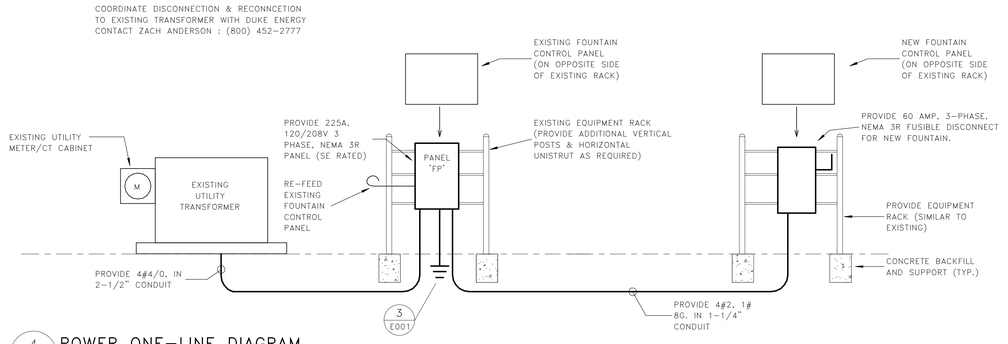
3 E001 GROUNDING DETAIL
NOT TO SCALE

ABBREVIATIONS

ABR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACK BOARD
cd	CANDELA
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSS BAR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
LCS	LIGHTING CONTROL SYSTEM
NEC	NATIONAL ELECTRIC CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SPD	SURGE PROTECTION DEVICE
TGB	TELEPHONE GROUNDING BUSS BAR
UNO	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER



1 E001 EXISTING POWER ONE-LINE DIAGRAM
NOT TO SCALE



4 E001 POWER ONE-LINE DIAGRAM
NOT TO SCALE

LIGHT FIXTURE SCHEDULE

SYMBOL	FIXTURE SPECIFICATIONS TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	LAMPING LUMENS	LAMPING COLOR TEMP	ELECTRICAL FIXT. LOAD	ELECTRICAL VOLTS	MOUNTING REMARKS	NOTES
	FA	LED ACCENT NARROW FLOOD LIGHTING	CURRENT	VP-F-1-132L-39-4K8-2X2-480-K-BLT	5500	4000K	39	480 V	IN GRADE	
	FB	LED ACCENT MEDIUM FLOOD LIGHTING	CURRENT	VP-F-1-132L-39-4K8-4X4-480-K-BLT	5500	4000K	39	480 V	IN GRADE	
	FC	LED ACCENT MEDIUM FLOOD LIGHTING	CURRENT	VP-F-1-132L-39-4K8-4X4-UNV-K-BLT	5500	4000K	39	208 V	IN GRADE	
	PP	LED PIER TOP LIGHT FIXTURE	CURRENT	DMR-1-T5-32L-35-40K 8-HV-	3338	4000K	33	480 V	PIER TOP	

LIGHT FIXTURE SCHEDULE NOTES

1 LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.

2 LUMENS LISTED IN SCHEDULE REPRESENT DELIVERED LUMENS OF FIXTURES.

ELECTRICAL DRAWING INDEX	
#	SHEET NAME
E001	ELECTRICAL NOTES & LEGENDS
E101	ELECTRICAL GATE PLANS
E102	ELECTRICAL GATE PLANS

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811 CONSIDERABLE EFFORT HAS BEEN MADE TO DETERMINE THE EXTENT OF UNDERGROUND UTILITIES. SOME LOCATIONS ARE ACTUAL FIELD MEASUREMENTS AND SOME ARE TAKEN FROM UTILITY RECORDS. THIS PLAN DOES NOT WARRANT THAT UTILITIES ARE SHOWN ACCURATELY NOR THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES PRIOR TO BEGINNING DIGGING OPERATIONS. CALL PALMETTO UTILITIES LOCATION SERVICE AT 811 A MINIMUM OF 3 WORKING DAYS BEFORE DIGGING. ANY UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. ADDITIONALLY, THE CONTRACTOR SHALL CONFIRM THE CONNECTION POINTS OF NEW UTILITIES TO EXISTING UTILITIES PRIOR TO BEGINNING NEW CONSTRUCTION.

mcmillan pazdan smith ARCHITECTURE
CONSULTANT LOGO

SEALS

BELKA ENGINEERING ASSOC. INC. No. C00953 CERTIFICATE OF AUTHORIZATION SOUTH CAROLINA

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 26181 10-04-23 JASON L. AREVEN

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY

PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY: PDB

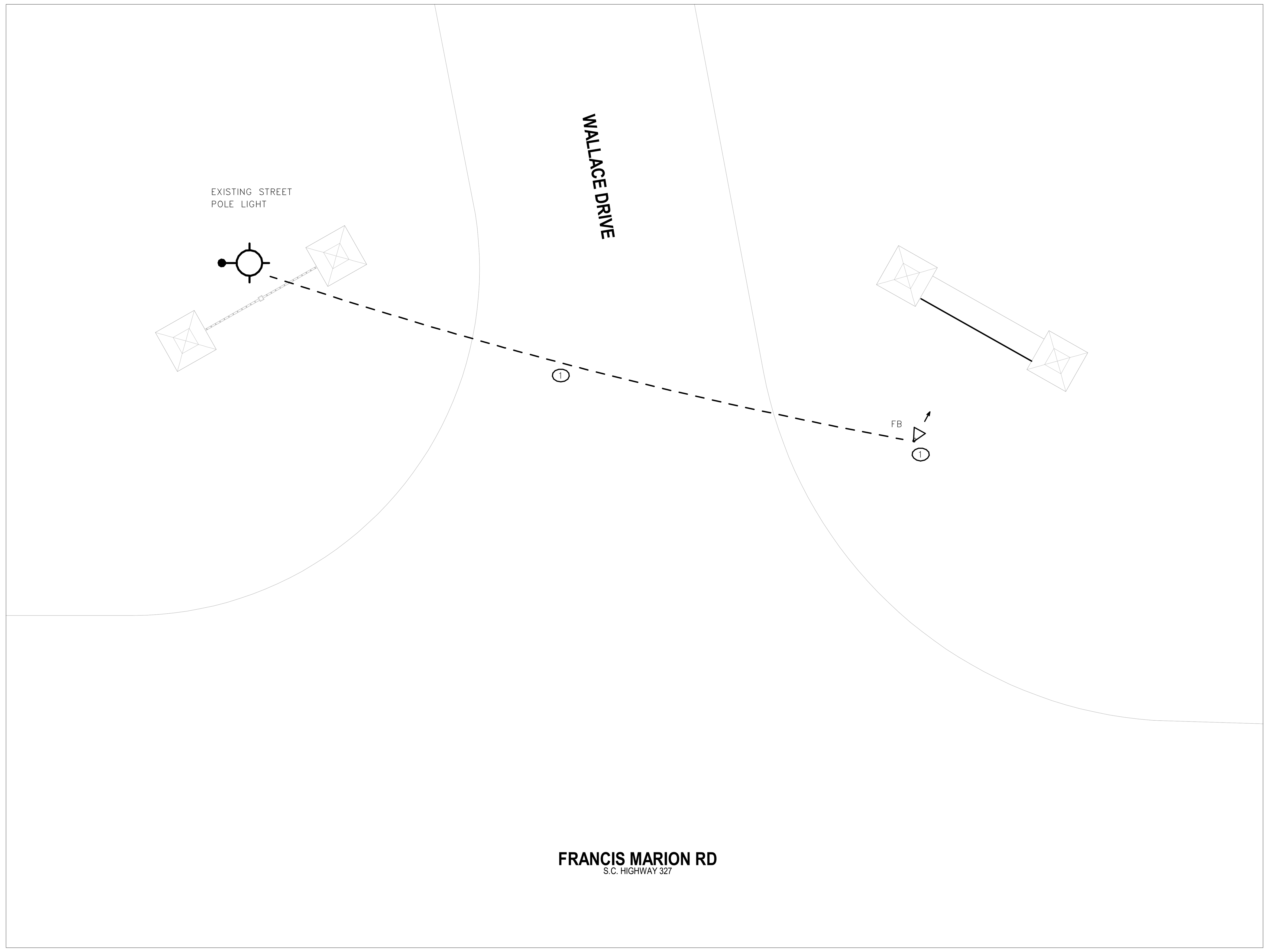
SHEET TITLE:

ELECTRICAL NOTES & LEGENDS

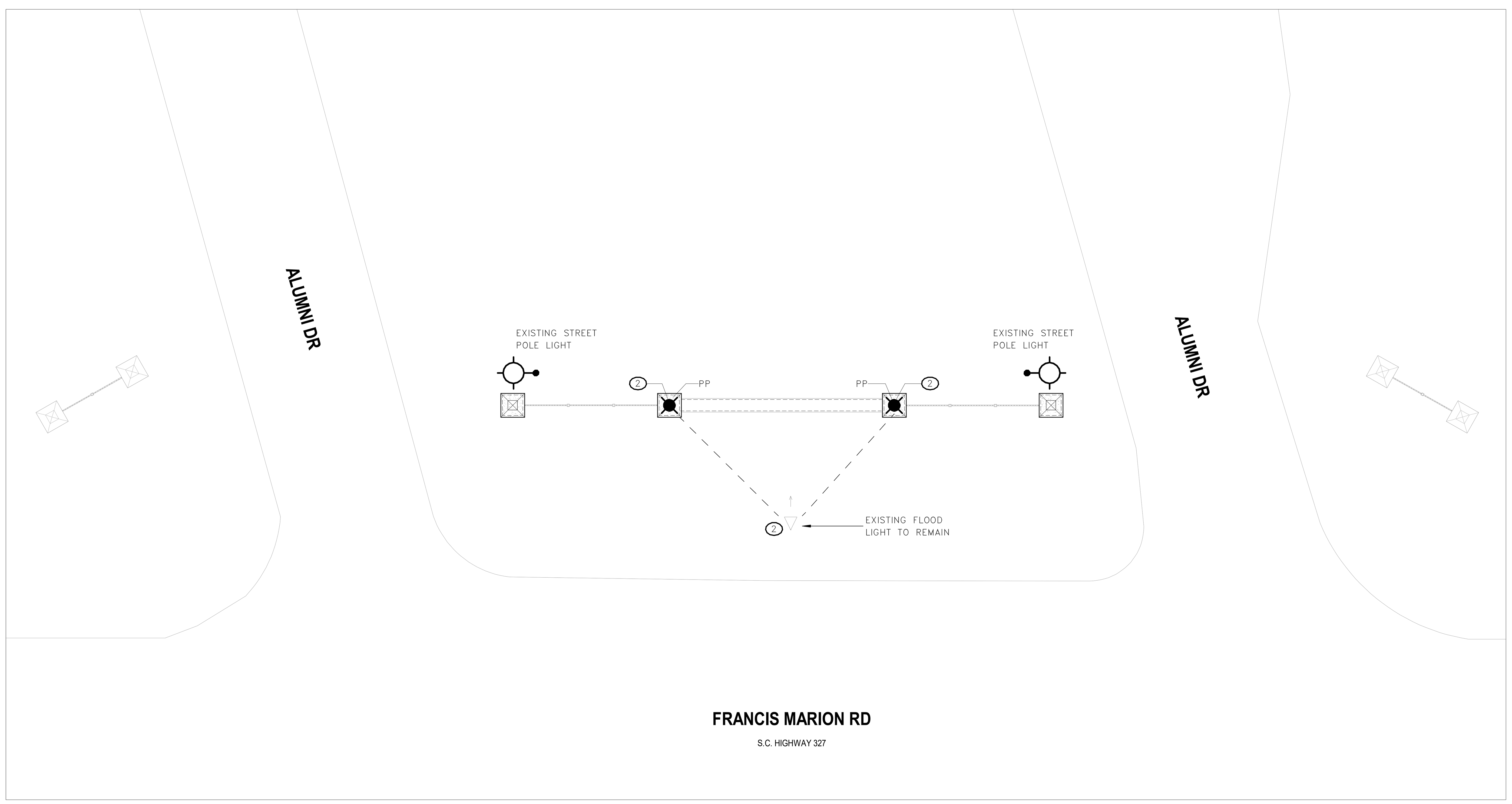
SHEET NO. E001

PROJ. NO. 023087.00

PLOTTED: 11/28/23 7:00:57 AM Autodesk Docs://023087.00 FMU Entrance Gate Renovation/MP22302_FMU Gate.rvt Florence, SOUTH CAROLINA By: pdb



2 / E101 WALLACE DRIVE (GATE 1) ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"



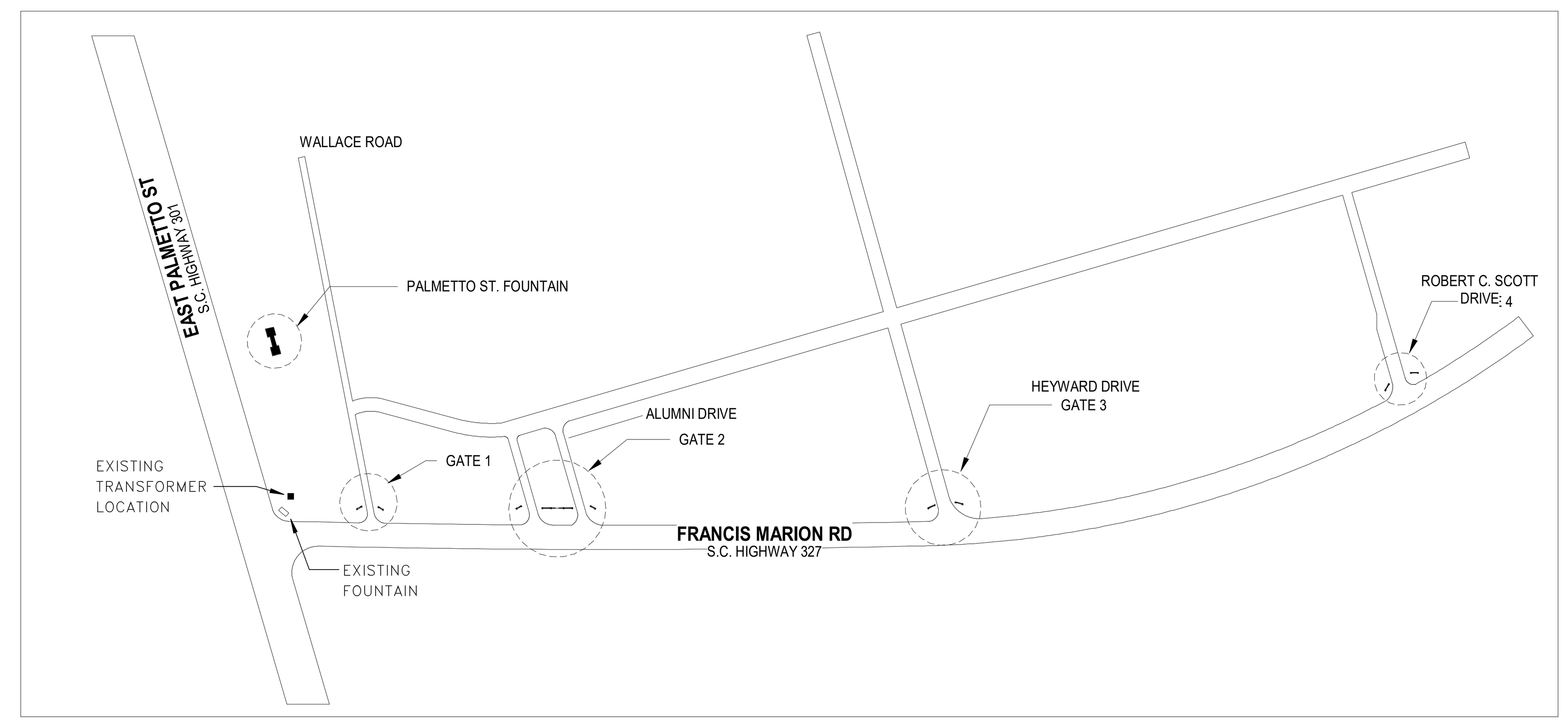
1 / E101 ALUMNI DRIVE (GATE 2) ELECTRICAL PLAN
SCALE: 1" = 10'-0"

PANELBOARD: FP
SUPPLIED FROM: UTILITY
MOUNTING: SURFACE
DISTRIBUTION: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: Type 1
A.I.C. RATING: 10,000
MAINS RATING: 225 A
MCB RATING: 225 A
SE RATED

WIRE SIZE	NTS	CKT	DESCRIPTION	BKR	P	A	A	B	B	C	C	P	BKR	DESCRIPTION	CKT	NTS	WIRE SIZE
3-#4, 1-#4, 1-#10	1	1	EXISITNG CORNER FOUNTAIN	60	3	5.2	5.2					3	60	FOUNTAIN	2	2	3-#2, 1-#2, 1-#6
		3						5.2	5.2						4		
		5								5.2	5.2				6		
1-#10, 1-#10, 1-#12		7	FOUNTAIN RECEP.	20	1	0.2	0.0					1	20	EXISTING IRRIGATION CONTROLS	8	1	--
--		9	SPARE	20	1			0.0	0.0			1	20	SPARE	10		--
--		11	SPARE	20	1					0.0	0.0	1	20	SPARE	12		--
--		13	PREPARED SPACE	--	1	--	--					1	--	PREPARED SPACE	14		--
--		15	PREPARED SPACE	--	1			--	--			1	--	PREPARED SPACE	16		--
--		17	PREPARED SPACE	--	1					--	--	1	--	PREPARED SPACE	18		--
			TOTAL PER PHASE KVA:			10.5		10.4		10.4				CONNECTED KVA:	31.3		
			TOTAL PER PHASE AMPACITY:			88		86		86				CONNECTED AMPACITY:	87		

NOTES (NTS COLUMN):
1) PROVIDE BREAKER AS SHOWN TO REFEED EXISTING EQUIPMENT
2) COORDINATE FEEDER SIZE WITH SINGLE LINE DIAGRAM

CONDUIT SCHEDULE	
BRANCH CIRCUIT RATING	CONDUIT SIZE
20A-40A	3/4"
45A-55A	1"
60A-110A	1 1/4"
125A-150A	1 1/2"
175A-200A	2"
225A-300A	2 1/2"
350A	3"
400A	3 1/2"



3 / E101 KEY PLAN
SCALE: 1" = 300'-0"

KEY NOTES

1 AT WALLACE DRIVE, PROVIDE FLOODLIGHT FOR SIGNAGE AND EXTEND EXISTING 480V CIRCUIT FROM EXISTING STREET POLE LIGHT. PROVIDE #10 CONDUCTORS IN 1" CONDUIT AND BORE UNDER ROADWAY FOR ROUTING. COORDINATE EXACT LOCATION AND AIMING OF FLOODLIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE MOCKUP OF FIXTURE IN EVENING HOURS TO HELP ESTABLISH LOCATION. PROVIDE 12" DIAMETER X 24" DEEP CONCRETE BASE FOR CONDUIT STUB UP. TOP OF BASE SHALL BE 4" ABOVE FINISHED GRADE.

2 AT ALUMNI DRIVE, PROVIDE TWO (2) PIER MOUNTED FIXTURES ON TOP OF SIGNAGE AND EXTEND EXISTING 480V CIRCUIT FROM EXISTING FLOODLIGHT. PROVIDE 12" X 12" HANDHOLE AT EXISTING FLOODLIGHT TO DISTRIBUTE THE WIRING. PROVIDE #10 CONDUTCTORS IN 1" CONDUIT UNDERGROUND AND TRANSITION TO A 4" DIAMETER CONDUIT IN SIGNAGE STRUCTURE TO MOUNT FIXTURE.

0 300'-0" 600'-0" 900'-0" 1200'-0"
SCALE: 1"= 300' - 0"

0 5'-4" 10'-8" 16'-0" 21'-4"
SCALE: 3/16"= 1' - 0"

0 10'-0" 20'-0" 30'-0" 40'-0"
SCALE: 1" = 10'-0"

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PLAN NORTH

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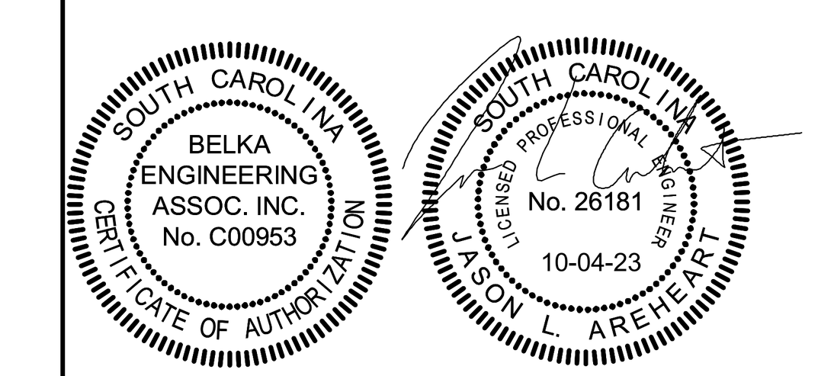
CONSULTANT LOGO

SEALS



FRANCIS MARION UNIVERSITY
ENTRANCE GATE RENOVATIONS
FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

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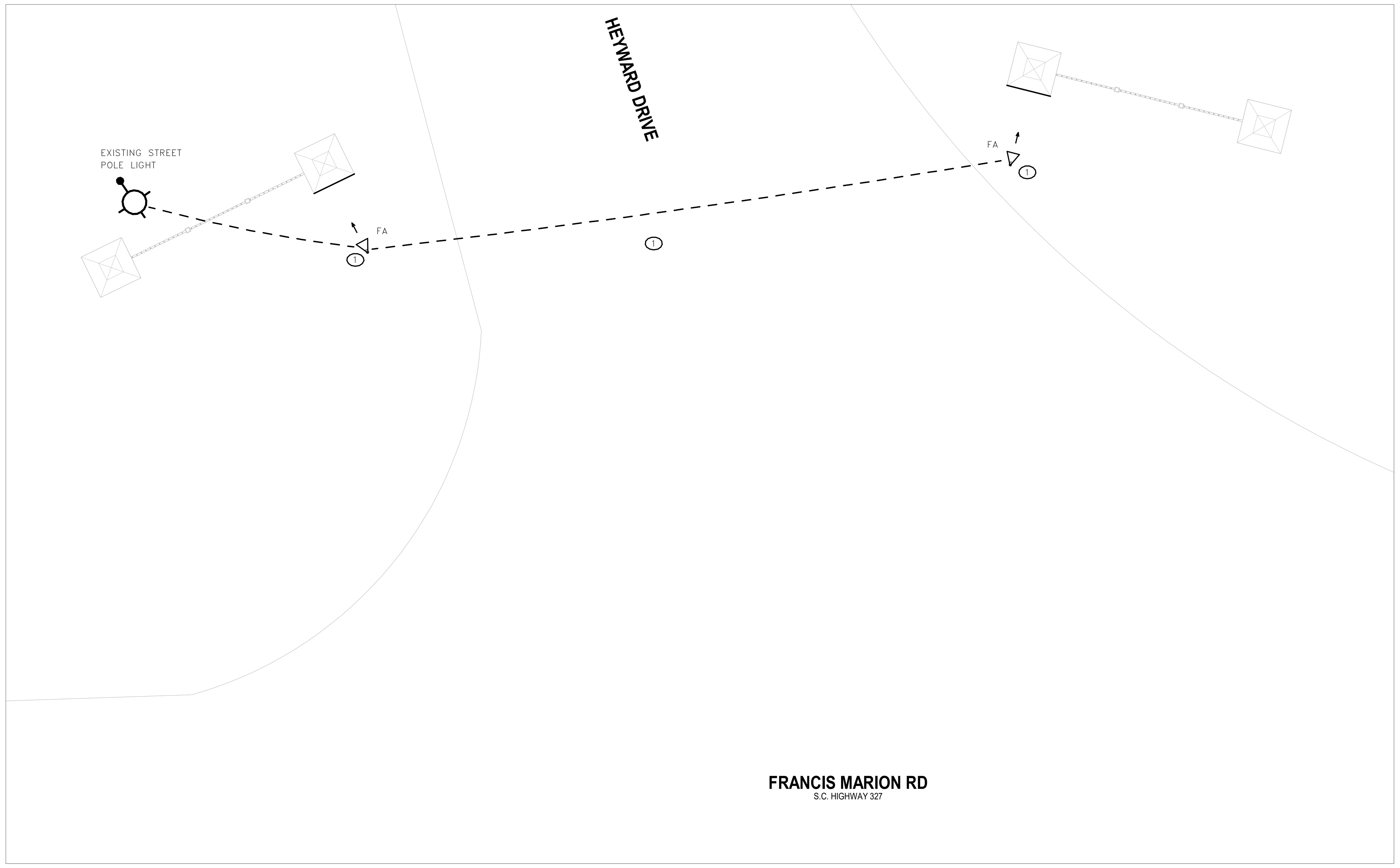
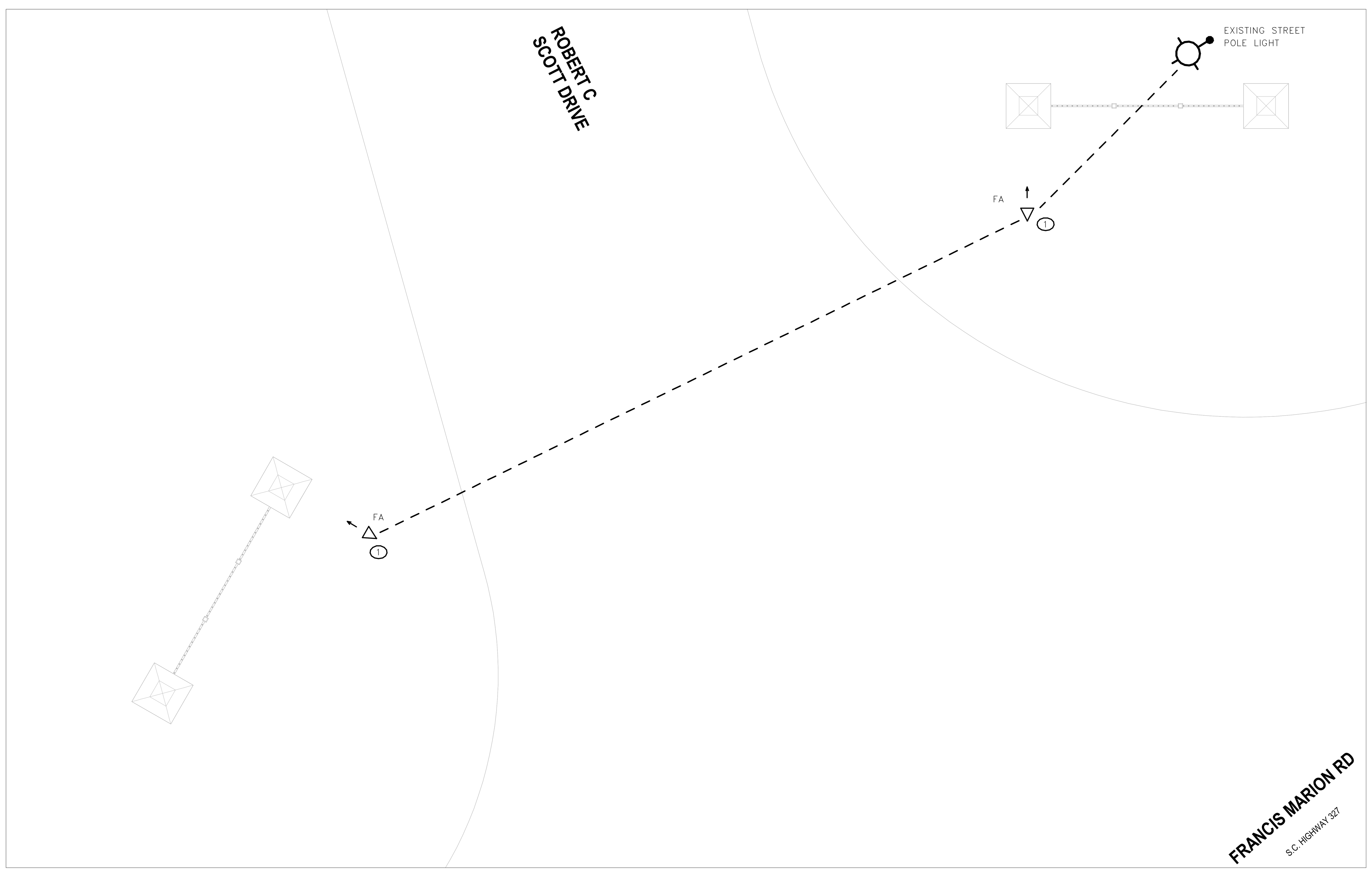
ELECTRICAL GATE PLANS

SHEET NO. E101
PROJ. NO. 023087.00



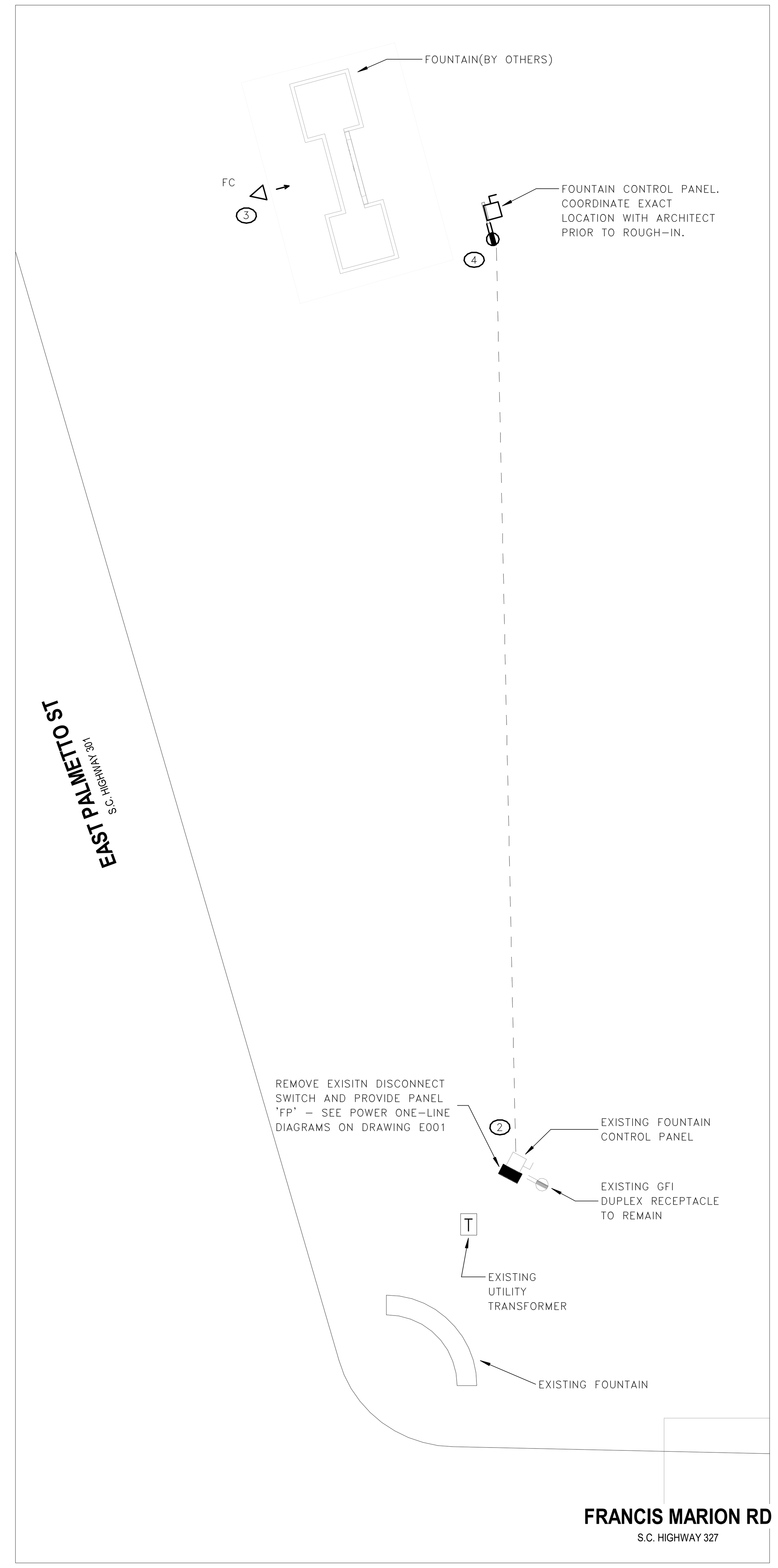
1 E102 HEYWARD DRIVE (GATE 3) ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"



2 E102 ROBERT C SCOTT DRIVE (GATE 4) ELECTRICAL PLAN
SCALE: 3/16" = 1'-0"

KEY NOTES

1. AT HEYWARD AND ROBERT C. SCOTT DRIVES, PROVIDE FLOODLIGHTS FOR SIGNAGE AND EXTEND EXISTING 208V CIRCUIT FROM EXISTING STREET POLE LIGHT. PROVIDE #10 CONDUCTORS IN 1" CONDUIT AND BORE UNDER ROADWAY FOR ROUTING. COORDINATE EXACT LOCATION AND AIMING OF FLOODLIGHT WITH ARCHITECT AND OWNER BEFORE ROUGH IN. PROVIDE MOCKUP OF FIXTURE IN EVENING HOURS TO HELP ESTABLISH LOCATION. PROVIDE 12" DIAMETER X 24" DEEP CONCRETE BASE FOR CONDUIT STUB UP. TOP OF BASE SHALL BE 4" ABOVE FINISHED GRADE.
2. AT EAST PALMETTO STREET/FRANCIS MARION ROAD, REMOVE EXISTING SERVICE DISCONNECT SWITCH FEEDING EXISTING FOUNTAIN CONTROL PANEL AND PROVIDE SERVICE RATED PANEL "FP" (SEE POWER ONE-LINE DIAGRAMS FOR MORE DETAILS OF SCOPE). ROUTE BRANCH CIRCUIT UNDERGROUND FROM PANEL "FP" TO NEW FOUNTAIN CONTROL PANEL AND MISCELLANEOUS LOADS (I.E. FLOODLIGHT, CONVENIENCE RECEPTACLE, ETC.).
3. ADJACENT TO NEW FOUNTAIN/SIGNAGE, PROVIDE EQUIPMENT RACK FOR CONTROL PANEL AND DISCONNECT SWITCH. COORDINATE EXACT LOCATION WITH OWNER AND FOUNTAIN CONTRACTOR. PROVIDE ONE 20 AMP DUPLEX GFI RECEPTACLE WITH METALLIC "WHILE-IN-USE" WEATHERPROOF COVER, MOUNTED ON EQUPMENT RACK.
4. PROVIDE FLOODLIGHT FOR NEW FOUNTAIN SIGNAGE. PROVIDE #10 CONDUCTORS IN 1" CONDUIT FROM PANEL "FP". COORDINATE EXACT LOCATION AND AIMING OF FLOODLIGHT WITH ARCHITECT AND OWNER BEFORE ROUGH IN. PROVIDE MOCKUP OF FIXTURE IN EVENING HOURS TO HELP ESTABLISH LOCATION. PROVIDE 12" DIAMETER X 24" DEEP CONCRETE BASE FOR CONDUIT STUB UP. TOP OF BASE SHALL BE 4" ABOVE FINISHED GRADE.



3 E102 FOUNTAIN ELECTRICAL PLAN
SCALE: 1" = 30'-0"

0 30'-0" 60'-0" 90'-0" 120'-0"
SCALE: 1"= 30' - 0"

0 5'-4" 10'-8" 16'-0" 21'-4"
SCALE: 3/16"= 1' - 0"

PLAN NORTH

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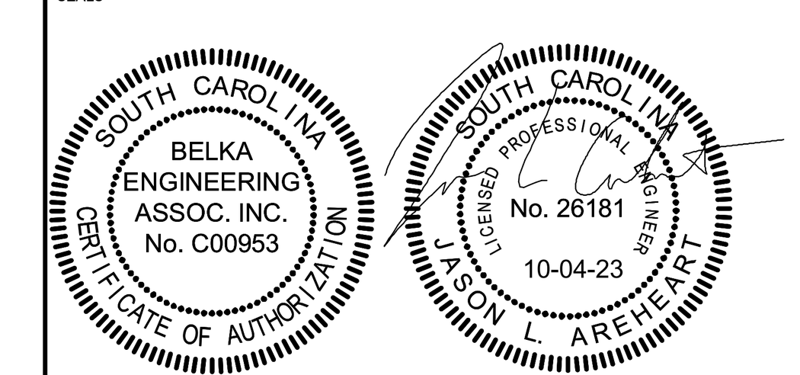
CONSULTANT LOGO

SEALS



FRANCIS MARION UNIVERSITY
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FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

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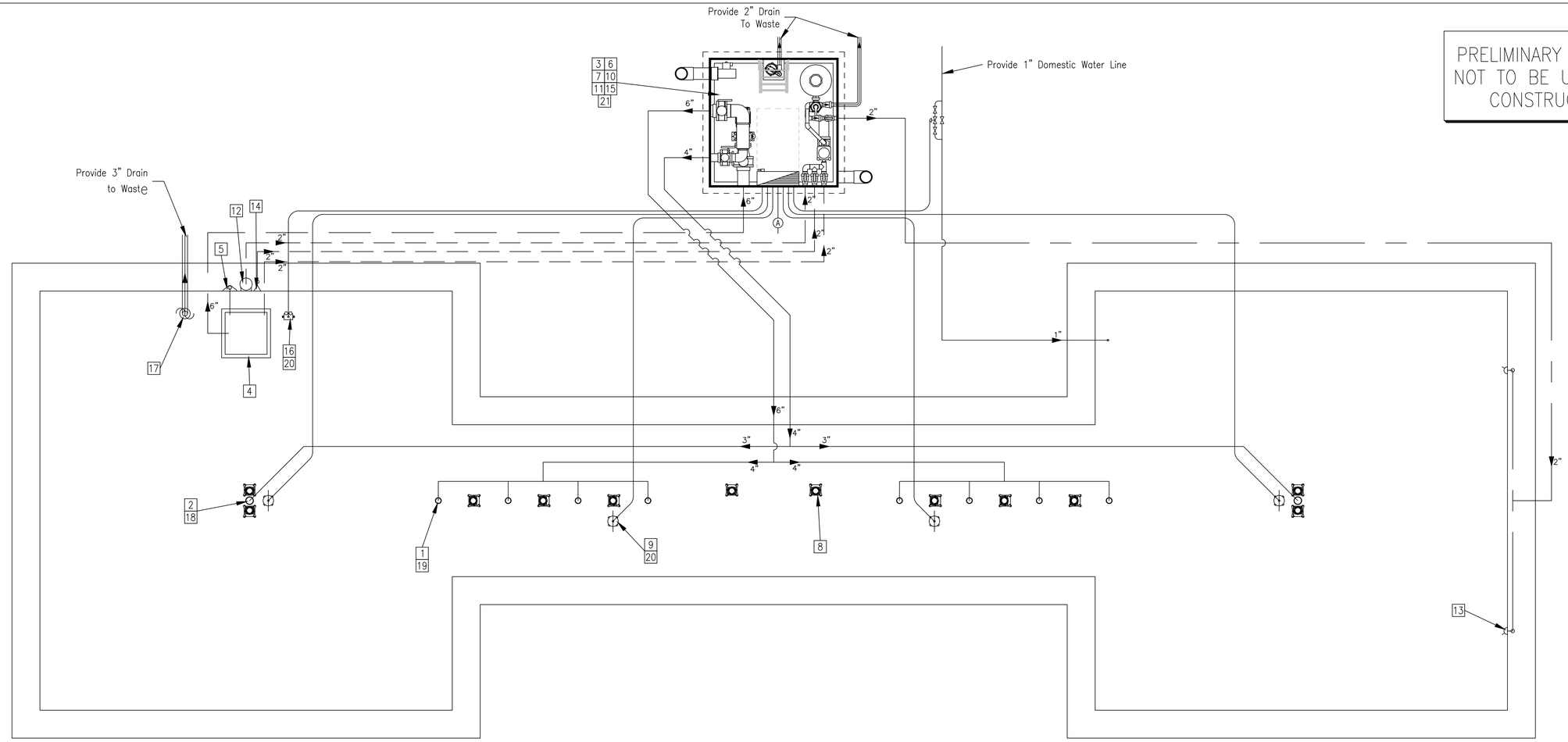
DRAWN BY: PDB

SHEET TITLE:
ELECTRICAL GATE PLANS

SHEET NO. E102
PROJ. NO. 023087.00

PRELIMINARY DRAWING
NOT TO BE USED FOR CONSTRUCTION



Fountain Mechanical/Electrical Plan

GRAPHIC SCALE
0 2' 4' 6' 8' 10' 12'

Equipment by Hall

ITEM	QTY	DESCRIPTION
1	2	JC400 CAST BRONZE & BRASS CASCADE JET – features 4" discharge to 10', 2" FPT inlet with swivel joint, 2" brass close nipple, 2" bronze valve with copper handle, and 2" brass riser.
2	8	JC300 CAST BRONZE & BRASS CASCADE JET – features 3" discharge to 4', 1-1/2" FPT inlet with swivel joint, 1-1/2" brass close nipple, 1-1/2" bronze valve with copper handle, and 1-1/2" brass riser.
3	1	7-1/2 HP CENTRIFUGAL FEATURE PUMP – cast iron, close coupled, flooded-end suction pump with mechanical shaft seal, dynamically balanced impeller, and drip proof 7-1/2 HP, 1800 RPM, 230/460 volt 3 phase motor with grease lubricated ball bearings and moisture resistant insulation. Intake and discharge are flanged 4" x 3".
4	1	PCS2X2 INTAKE SCREEN – fabricated for a 2' x 2' sump. Features a 1-1/2" x 3/16" stainless steel angle frame with locking lugs that pours in sump edge, and a perforated stainless steel sheet with 1/4" dia. holes, spot welded to a 1-1/2" x 3/16" stainless steel angle frame, with cross members and lifting handles, that bolts into frame in pool floor.
5	1	SV200F SIDEWALL SUMP VENT FITTING – features cast bronze construction with a bolished brass grate, stainless fasteners and 2" FPT inlet.
6	1	FEATURE INTAKE MANIFOLD – with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
7	1	FEATURE DISCHARGE MANIFOLD – with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
8	12	SL40-LED UL LISTED CAST BRONZE SUBMERSIBLE LED LIGHT – free-standing fixture with thermal protection, swivel base, machined surface with lens clearance for even gasket compression, 4" acrylic clear lens, neoprene gaskets, bronze cord seal, class 2 LED driver and stainless steel fastenings. Includes 36W., 120V. 4000K LED, with 10' 16/3 type ST cord. Cord entry is encapsulated in epoxy to prevent the entrance of moisture. Air tested, and assembled ready for installation.
9	4	JB1S UL LISTED CAST BRONZE UNDERWATER JUNCTION BOX – features neoprene lid gasket, stainless steel fastenings, four threaded side openings with cord seals and neoprene grommets (for 16/3 type ST cord), delrin plugs (for unused openings), and a 1" FPT bottom conduit entrance. Supplied with potting paraffin as per section 680 of the National Electrical Code.
10	1	TR40 SAND FILTER WITH MULTIPORT VALVE – features seamless fiberglass construction and a six position multi-port valve with 1-1/2" FPT ports. Total filter area is 1.9 sq. ft. and is rated for 38 GPM flow rate. Requires 150 lbs. of filter sand media (NOT SUPPLIED).
11	1	3/4 HP CENTRIFUGAL FILTER PUMP – features a one-piece Noryl strainer and volute assembly, high performance volute design, Noryl high efficiency impeller and quiet funnel diffuser. The 3/4 HP, 3600 RPM motor with thermal overload protection is rated for 120 volt single phase power. The pump intake and discharge are both 2" PVC FPT connections.

Equipment by Hall

ITEM	QTY	DESCRIPTION
12	1	FA150J FRONT ACCESS POOL SKIMMER – constructed of rugged black cycolac with a heavy duty cast bronze face plate and removable basket.
13	2	EB200 EYEBALL RETURN FITTING – is a receptacle fitting featuring rugged black cycolac construction having 2" PVC insider slip connection.
14	1	VF200 VACUUM FITTING – features rugged black cycolac construction having a 2" PVC insider slip connection, flush mounted plug and gasket.
15	1	FOUNTAIN CONTROLLER – with a main disconnect and door handle, a three phase full-voltage starter, with overload protection, contactors, timers, circuit breakers (standard or GFI), and other controls, pre-wired to a terminal bar through pan-duct wiring trough and mounted on a removable backing plate in a NEMA Type 3R enclosure. Power is supplied from a remote breaker panel (by others).
16	1	JB4W 1 & 2 LOW VOLTAGE WATER LEVEL/LOW WATER CUTOFF SENSOR – is a dual-purpose in-pool electronic sensor mounted on twin adjustable brass sensor rods with titanium probes all mounted to a cast bronze submersible junction box with two brass cord seals for 16/3 submersible cable and 3/4" conduit hub.
17	1	OD300 COMBINATION OVERFLOW & DRAIN FITTING – features PVC molded base with 3" slip inlet, cast bronze adjustable floor fitting with O-ring seal, and stainless steel standpipe with nickel/bronze dome.
18	2	2" THREADED BRASS COUPLING – to be used as a water supply stubup for the fountain jet/feature supplied by Hall Fountains.
19	8	1-1/2" THREADED BRASS COUPLING – to be used as a water supply stubup for the fountain jet/feature supplied by Hall Fountains.
20	5	1" X 6" RED BRASS NIPPLE – to be used as an electrical conduit stubup to the underwater junction box supplied by Hall Fountains.
21	1	6'x6' FOUNTAIN EQUIPMENT PIT – fabricated from reinforced fiberglas with a hinged access cover, ladder, drainage sump, automatic sump pump, exhaust fan, and utility receptacle. All components are supplied prewired & preplumbed with PVC sleeves and condulets on the outside for all connections to pit.

Legends

PLUMBING LEGEND

- BUTTERFLY VALVE (FLANGED)
- BALL OR GATE VALVE (THREADED, OR PVC)
- WAFER STYLE CHECK VALVE (FLANGED)
- SWING TYPE CHECK VALVE (THREADED, OR PVC)
- REDUCER/BUSHING (THREADED, OR PVC)
- MAIN SUCTION PIPING (SCH 40 PVC) *
- MAIN DISCHARGE PIPING (SCH 40 PVC) *
- FILTER SUCTION PIPING (SCH 40 PVC) *
- FILTER DISCHARGE PIPING (SCH 40 PVC) *
- CITY WATER SUPPLY PIPING (SCH 40 PVC) *
- DRAINAGE PIPING (DWV PVC)
- FLOW DIRECTION AND PIPE SIZE INDICATOR (4")

* SCHEDULE 80 PVC PIPING IS REQUIRED FOR USE UNDER CONCRETE SLABS AND FOOTINGS. WORKING PRESSURES ALLOW THE USE OF SCHEDULE 40 PVC PIPING AND FITTINGS.

ELECTRICAL LEGEND

- CONDUIT: 115 VAC, 208 VAC OR 230 VAC, 1PH, 3W
- CONDUIT: 208-230/460 VAC, 3W OR 4W
- CONDUIT: LOW VOLTAGE SENSOR OR CONTROL
- VOLTAGE CONDUCTOR (SHORT STROKE)
- NEUTRAL CONDUCTOR (LONG STROKE)
- GROUNDING CONDUCTOR (LONG STROKE WITH DOT)
- SOLENOID VALVE

CONDUIT LEGEND

- (A) PROVIDE A 60A, 120/208 VAC, 3PH, 4W ELECTRICAL SERVICE TO CONTROLLER
- (B) 1"C, 2#12 & BOND, 15A, 120 VAC, GFCI LIGHTING "LT1"
- (C) 1"C, 2#12 & BOND, 15A, 120 VAC, GFCI LIGHTING "LT2"
- (D) 1"C, 2#12 & BOND, 15A, 120 VAC, GFCI LIGHTING "LT3"
- (E) 1"C, 2#12 & BOND, 15A, 120 VAC, GFCI LIGHTING "LT4"
- (F) 1"C, 6#12 & BOND, LV WATER LEVEL SENSOR "C1"
- (G) 1/2"C, 2#12, 24 VAC CONTROL "C1"

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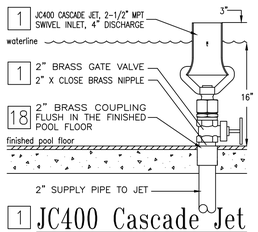
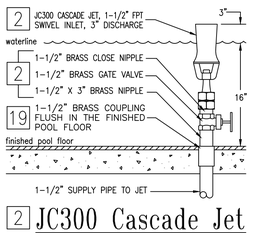
DRWG. NO.: H-15195



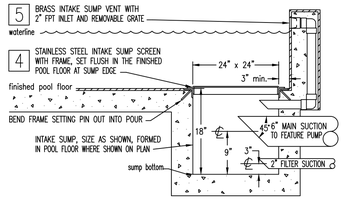
1 JC400 Cascade Jet

N.T.S. Typical Installation Detail



2 JC300 Cascade Jet

N.T.S. Typical Installation Detail



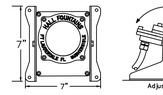
4 PCS 24" x 24" Sump Screen

N.T.S. Typical Installation Detail

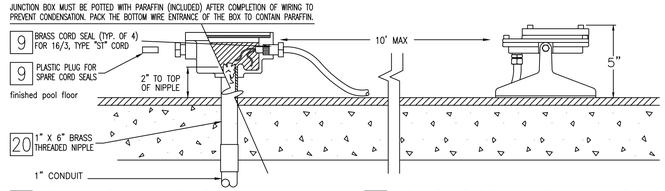
CAUTION: REQUIRES A 1" MINIMUM WATER LEVEL CLEARANCE ABOVE THE TOP OF THE LENS. DO NOT REMOVE EXCESS CABLE, LOOP AROUND THE BASE OF THE FIXTURE TO FACILITATE RELAMPING.

CORDS LONGER THAN THE STANDARD 10 FEET ARE AVAILABLE UPON REQUEST

* INCLUDES 38 WATT, 120V, 4000K LED
* UL LISTED FOR UNDERWATER USE
* CAST BRONZE FIXTURE WITH STAINLESS STEEL FASTENERS
* 16/3 WATER RESISTANT CABLE
* FREE STANDING FIXTURE HAS AN ADJUSTABLE BASE



JUNCTION BOX MUST BE POTTED WITH PARAFFIN (INCLUDED) AFTER COMPLETION OF WIRING TO PREVENT CONDENSATION. PACK THE BOTTOM WIRE ENTRANCE OF THE BOX TO CONTAIN PARAFFIN.



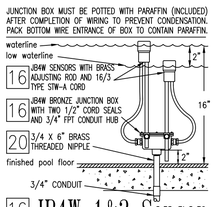
9 JB1S Submersible Junction Box

N.T.S. Typical Installation Detail

8 SL40-LED Submersible Light Fixture 38 Watt LED

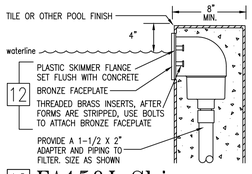
N.T.S. Typical Installation Detail

JUNCTION BOX MUST BE POTTED WITH PARAFFIN (INCLUDED) AFTER COMPLETION OF WIRING TO PREVENT CONDENSATION. PACK BOTTOM WIRE ENTRANCE OF BOX TO CONTAIN PARAFFIN.



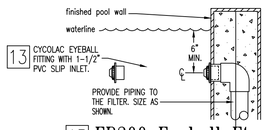
16 JB4W 1&2 Sensor

N.T.S. Typical Installation Detail



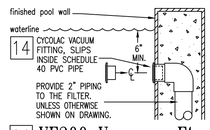
12 FA150J Skimmer

N.T.S. Typical Installation Detail



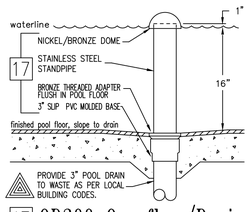
13 EB200 Eyeball Ftg.

N.T.S. Typical Installation Detail



14 VF200 Vacuum Ftg.

N.T.S. Typical Installation Detail



17 OD300 Overflow/Drain

N.T.S. Typical Installation Detail

Equipment by Hall

ITEM	QTY	DESCRIPTION
1	2	JC400 CAST BRONZE & BRASS CASCADE JET – features 4" discharge to 10', 2" FPT inlet with swivel joint, 2" brass close nipple, 2" bronze valve with copper handle, and 2" brass riser.
2	8	JC300 CAST BRONZE & BRASS CASCADE JET – features 3" discharge to 4', 1-1/2" FPT inlet with swivel joint, 1-1/2" brass close nipple, 1-1/2" bronze valve with copper handle, and 1-1/2" brass riser.
3	1	7-1/2 HP CENTRIFUGAL FEATURE PUMP – cast iron, close coupled, flooded-end suction pump with mechanical shaft seal, dynamically balanced impeller, and drip proof 7-1/2 HP, 1800 RPM, 230/460 volt 3 phase motor with grease lubricated ball bearings and moisture resistant insulation. Intake and discharge are flanged 4" x 3".
4	1	PCS2X2 INTAKE SCREEN – fabricated for a 2' x 2' sump. Features a 1-1/2" x 3/16" stainless steel angle frame with locking lugs that pours in sump edge, and a perforated stainless steel sheet with 1/4" dia. holes, spot welded to a 1-1/2" x 3/16" stainless steel angle frame, with cross members and lifting handles, that bolts into frame in pool floor.
5	1	SV200F SIDEWALL SUMP VENT FITTING – features cast bronze construction with a bolished brass grate, stainless fasteners and 2" FPT inlet.
6	1	FEATURE INTAKE MANIFOLD – with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
7	1	FEATURE DISCHARGE MANIFOLD – with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
8	12	SL40-LED UL LISTED CAST BRONZE SUBMERSIBLE LED LIGHT – free-standing fixture with thermal protection, swivel base, machined surface with lens clearance for even gasket compression, 4" acrylic clear lens, neoprene gaskets, bronze cord seal, class 2 LED driver and stainless steel fastenings. Includes 36W., 120V. 4000K LED, with 10' 16/3 type ST cord. Cord entry is encapsulated in epoxy to prevent the entrance of moisture. Air tested, and assembled ready for installation.
9	4	JB1S UL LISTED CAST BRONZE UNDERWATER JUNCTION BOX – features neoprene lid gasket, stainless steel fastenings, four threaded side openings with cord seals and neoprene grommets (for 16/3 type ST cord), delrin plugs (for unused openings), and a 1" FPT bottom conduit entrance. Supplied with potting paraffin as per section 680 of the National Electrical Code.
10	1	TR40 SAND FILTER WITH MULTIPORT VALVE – features seamless fiberglass construction and a six position multi-port valve with 1-1/2" FPT ports. Total filter area is 1.9 sq. ft. and is rated for 38 GPM flow rate. Requires 150 lbs. of filter sand media (NOT SUPPLIED).
11	1	3/4 HP CENTRIFUGAL FILTER PUMP – features a one-piece Noryl strainer and volute assembly, high performance volute design, Noryl high efficiency impeller and quiet funnel diffuser. The 3/4 HP, 3600 RPM motor with thermal overload protection is rated for 120 volt single phase power. The pump intake and discharge are both 2" PVC FPT connections.
12	1	FA150J FRONT ACCESS POOL SKIMMER – constructed of rugged black cycolac with a heavy duty cast bronze face plate and removable basket.
13	2	EB200 EYEBALL RETURN FITTING – is a receptacle fitting featuring rugged black cycolac construction having 2" PVC insider slip connection.
14	1	VF200 VACUUM FITTING – features rugged black cycolac construction having a 2" PVC insider slip connection, flush mounted plug and gasket.
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PRELIMINARY DRAWING
NOT TO BE USED FOR
CONSTRUCTION

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REVISION LOG

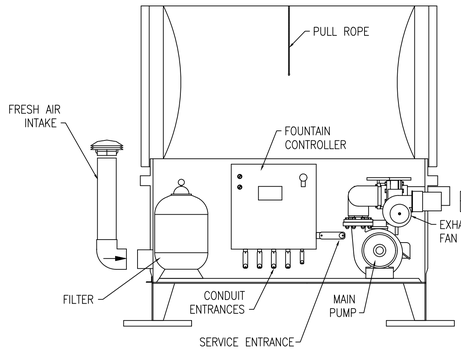
date	description	drawn/checked
09/29/23	WORKING	TAH

DATE: 09/29/23

SHEET: F2 OF 3

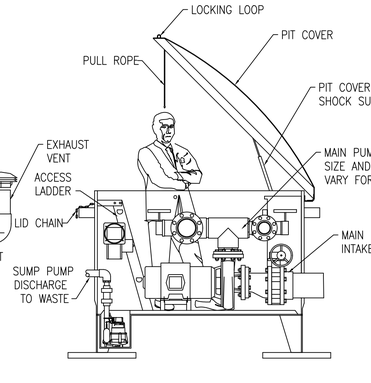
DRWG. NO.: H-15195

Typical Equipment Pit Installation and Layout (Pit Size and Equipment Installed Will Vary)



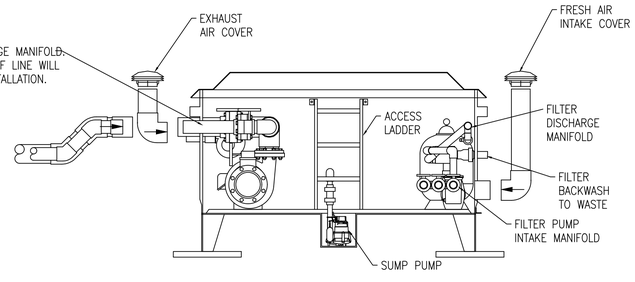
Elevation Toward Controller

GRAPHIC SCALE 0 2' 4' 6'



Elevation Toward Main Pump

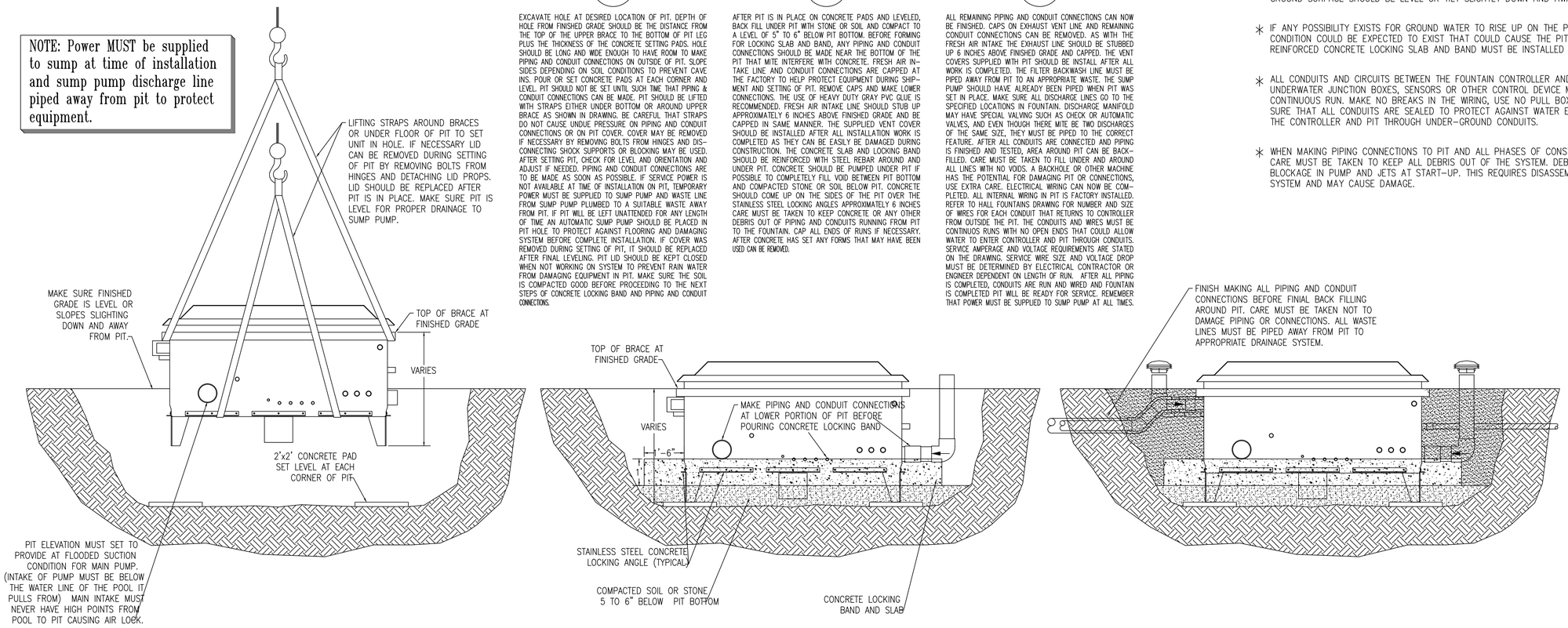
GRAPHIC SCALE 0 2' 4' 6'



Elevation Toward Ladder

GRAPHIC SCALE 0 2' 4' 6'

NOTE: Power MUST be supplied to sump at time of installation and sump pump discharge line piped away from pit to protect equipment.



A Excavate and Set Pit

GRAPHIC SCALE 0 2' 4' 6'

EXCAVATE HOLE AT DESIRED LOCATION OF PIT. DEPTH OF HOLE FROM FINISHED GRADE SHOULD BE THE DISTANCE FROM THE TOP OF THE UPPER BRACE TO THE BOTTOM OF PIT LEG PLUS THE THICKNESS OF THE CONCRETE SETTING PADS. HOLE SHOULD BE LONG AND WIDE ENOUGH TO HAVE ROOM TO MAKE PIPING AND CONDUIT CONNECTIONS ON OUTSIDE OF PIT. SLOPE SIDES DEPENDING ON SOIL CONDITIONS TO PREVENT CAVE INS. POUR OR SET CONCRETE PADS AT EACH CORNER AND LEVEL. PIT SHOULD NOT BE SET UNTIL SUCH TIME THAT PIPING & CONDUIT CONNECTIONS CAN BE MADE. PIT SHOULD BE LIFTED WITH STRAPS EITHER UNDER BOTTOM OR AROUND UPPER BRACE AS SHOWN IN DRAWING. BE CAREFUL THAT STRAPS DO NOT CAUSE UNDUE PRESSURE ON PIPING AND CONDUIT CONNECTIONS OR ON PIT COVER. COVER MAY BE REMOVED IF NECESSARY BY REMOVING BOLTS FROM HINGES AND DISCONNECTING SHOCK SUPPORTS OR BLOCKING MAY BE USED. AFTER SETTING PIT, CHECK FOR LEVEL AND ORIENTATION AND ADJUST IF NEEDED. PIPING AND CONDUIT CONNECTIONS ARE TO BE MADE AS SOON AS POSSIBLE. IF SERVICE POWER IS NOT AVAILABLE AT TIME OF INSTALLATION ON PIT, TEMPORARY POWER MUST BE SUPPLIED TO SUMP PUMP AND WASTE LINE FROM SUMP PUMP PLUMBED TO A SUITABLE WASTE AWAY FROM PIT. IF PIT WILL BE LEFT UNATTENDED FOR ANY LENGTH OF TIME AN AUTOMATIC SUMP PUMP SHOULD BE PLACED IN PIT HOLE TO PROTECT AGAINST FLOORING AND DAMAGING SYSTEM BEFORE COMPLETE INSTALLATION. IF COVER WAS REMOVED DURING SETTING OF PIT, IT SHOULD BE REPLACED AFTER FINAL LEVELING. PIT LID SHOULD BE KEPT CLOSED WHEN NOT WORKING ON SYSTEM TO PREVENT RAIN WATER FROM DAMAGING EQUIPMENT IN PIT. MAKE SURE THE SOIL IS COMPACTED GOOD BEFORE PROCEEDING TO THE NEXT STEPS OF CONCRETE LOCKING BAND AND PIPING AND CONDUIT CONNECTIONS.

B Install Lower Piping and Concrete Locking Band

GRAPHIC SCALE 0 2' 4' 6'

AFTER PIT IS IN PLACE ON CONCRETE PADS AND LEVELED, BACK FILL UNDER PIT WITH STONE OR SOIL AND COMPACT TO A LEVEL OF 5" TO 6" BELOW PIT BOTTOM. BEFORE FORMING FOR LOCKING SLAB AND BAND, ANY PIPING AND CONDUIT CONNECTIONS SHOULD BE MADE NEAR THE BOTTOM OF THE PIT THAT MITE INTERFERE WITH CONCRETE. FRESH AIR INTAKE LINE AND CONDUIT CONNECTIONS ARE CAPPED AT THE FACTORY TO HELP PROTECT EQUIPMENT DURING SHIPMENT AND SETTING OF PIT. REMOVE CAPS AND MAKE LOWER CONNECTIONS. THE USE OF HEAVY DUTY GRAY PVC GLUE IS RECOMMENDED. FRESH AIR INTAKE LINE SHOULD STUB UP APPROXIMATELY 6 INCHES ABOVE FINISHED GRADE AND BE CAPPED IN SAME MANNER. THE SUPPLIED VENT COVER SHOULD BE INSTALLED AFTER ALL INSTALLATION WORK IS COMPLETED AS THEY CAN BE EASILY BE DAMAGED DURING CONSTRUCTION. THE CONCRETE SLAB AND LOCKING BAND SHOULD BE REINFORCED WITH STEEL REBAR AROUND AND UNDER PIT. CONCRETE SHOULD BE PUMPED UNDER PIT IF POSSIBLE TO COMPLETELY FILL VOID BETWEEN PIT BOTTOM AND COMPACTED STONE OR SOIL BELOW PIT. CONCRETE SHOULD COME UP ON THE SIDES OF THE PIT OVER THE STAINLESS STEEL LOCKING ANGLES APPROXIMATELY 6 INCHES CARE MUST BE TAKEN TO KEEP CONCRETE OR ANY OTHER DEBRIS OUT OF PIPING AND CONDUITS RUNNING FROM PIT TO THE FOUNTAIN. CAP ALL ENDS OF RUNS IF NECESSARY. AFTER CONCRETE HAS SET ANY FORMS THAT MAY HAVE BEEN USED CAN BE REMOVED.

C Final Piping and Back Filling

GRAPHIC SCALE 0 2' 4' 6'

ALL REMAINING PIPING AND CONDUIT CONNECTIONS CAN NOW BE FINISHED. CAPS ON EXHAUST VENT LINE AND REMAINING CONDUIT CONNECTIONS CAN BE REMOVED. AS WITH THE FRESH AIR INTAKE THE EXHAUST LINE SHOULD BE STUBBED UP 6 INCHES ABOVE FINISHED GRADE AND CAPPED. THE VENT COVERS SUPPLIED WITH PIT SHOULD BE INSTALL AFTER ALL WORK IS COMPLETED. THE FILTER BACKWASH LINE MUST BE PIPED AWAY FROM PIT TO AN APPROPRIATE WASTE. THE SUMP PUMP SHOULD HAVE ALREADY BEEN PIPED WHEN PIT WAS SET IN PLACE. MAKE SURE ALL DISCHARGE LINES GO TO THE SPECIFIED LOCATIONS IN FOUNTAIN. DISCHARGE MANIFOLD MAY HAVE SPECIAL VALVING SUCH AS CHECK OR AUTOMATIC VALVES, AND EVEN THOUGH THERE MITE BE TWO DISCHARGES OF THE SAME SIZE, THEY MUST BE PIPED TO THE CORRECT FEATURE. AFTER ALL CONDUITS ARE CONNECTED AND PIPING IS FINISHED AND TESTED, AREA AROUND PIT CAN BE BACKFILLED. CARE MUST BE TAKEN TO FILL UNDER AND AROUND ALL LINES WITH NO VOIDS. A BACKHOLE OR OTHER MACHINE HAS THE POTENTIAL FOR DAMAGING PIT OR CONNECTIONS, USE EXTRA CARE. ELECTRICAL WIRING CAN NOW BE COMPLETED. ALL INTERNAL WIRING IN PIT IS FACTORY INSTALLED. REFER TO HALL FOUNTAINS DRAWING FOR NUMBER AND SIZE OF WIRES FOR EACH CONDUIT THAT RETURNS TO CONTROLLER FROM OUTSIDE THE PIT. THE CONDUITS AND WIRES MUST BE CONTINUOS RUNS WITH NO OPEN ENDS THAT COULD ALLOW WATER TO ENTER CONTROLLER AND PIT THROUGH CONDUITS. SERVICE AMPERAGE AND VOLTAGE REQUIREMENTS ARE STATED ON THE DRAWING. SERVICE WIRE SIZE AND VOLTAGE DROP MUST BE DETERMINED BY ELECTRICAL CONTRACTOR OR ENGINEER DEPENDENT ON LENGTH OF RUN. AFTER ALL PIPING IS COMPLETED, CONDUITS ARE RUN AND WIRED AND FOUNTAIN IS COMPLETED PIT WILL BE READY FOR SERVICE. REMEMBER THAT POWER MUST BE SUPPLIED TO SUMP PUMP AT ALL TIMES.

* IMPORTANT NOTES:

* THIS DRAWING IS SUBJECT TO THE PROJECT ARCHITECTS AND/OR ENGINEER'S APPROVAL.
* LOCAL BUILDING CODES VARY FROM MUNICIPALITY TO MUNICIPALITY AND MAY OVERRIDE NATIONAL CODES. COMPLIANCE WITH LOCAL CODES MUST BE INDEPENDENTLY VERIFIED BY OWNER'S ARCHITECT AND/OR ENGINEER. ANY DEVIATION FROM LOCAL CODES MUST BE BROUGHT TO THE ATTENTION OF HALL FOUNTAINS, INC. IMMEDIATELY.
* PIT COMES WITH ALL NECESSARY EQUIPMENT INSTALLED, PRE-PLUMBED, AND PRE-WIRED WITH EXTERNAL FITTING READY FOR HOOK-UP TO FOUNTAIN PIPING AND ELECTRICAL CONDUITS THAT ARE BY THE INSTALLATION CONTRACTOR.
* PIT MUST BE SET LEVEL FOR PROPER REMOVAL OF ANY WATER THAT MAY ENTER
* ORIENT PIT TO THE FOUNTAIN POOL FOR THE MUST EFFICIENT ROUTING OF PIPING. NORMALLY THE MAIN SUCTION INTAKE WILL GO DIRECTLY TO THE POOL. USE THE LEAST AMOUNT OF FITTING POSSIBLE. SCHEDULE 80 PVC PIPING IS REQUIRED UNDER CONCRETE SLABS AND FOOTINGS. WORKING PRESSURES ALLOW THE USE OF SCHEDULE 40 PVC PIPING AND FITTINGS
* CARE MUST BE TAKEN DURING THE INSTALLATION OF THE PIT AND CONSTRUCTION PHASES OF THE FOUNTAIN TO PROTECT AGAINST WATER ENTERING THE PIT. IF MAIN POWER SUPPLY IS NOT AVAILABLE AT TIME OF INSTALLATION, TEMPORARY POWER MUST BE SUPPLIED TO THE SUMP PUMP TO PROTECT THE EQUIPMENT AND THE SUMP WASTE LINE MUST RUN TO DRAIN. NEVER LEAVE ANY PIPING OR CONDUITS OPEN THAT WOULD ALLOW WATER TO ENTER PIT DURING RAIN OR FLOODING. NEVER LEAVE PIT UNATTENDED WITH COVER OPEN AS EXCESS RAIN COULD DAMAGE EQUIPMENT.
* NEVER INSTALL PIT IN A LOW AREA WHERE WATER CAN PUDDLE AND CAUSE FLOODING. GROUND SURFACE SHOULD BE LEVEL OR TILT SLIGHTLY DOWN AND AWAY FROM PIT.
* IF ANY POSSIBILITY EXISTS FOR GROUND WATER TO RISE UP ON THE PIT OR A RAIN CONDITION COULD BE EXPECTED TO EXIST THAT COULD CAUSE THE PIT TO FLOAT, A REINFORCED CONCRETE LOCKING SLAB AND BAND MUST BE INSTALLED AS SHOWN.
* ALL CONDUITS AND CIRCUITS BETWEEN THE FOUNTAIN CONTROLLER AND ANY IN POOL UNDERWATER JUNCTION BOXES, SENSORS OR OTHER CONTROL DEVICE MUST BE A CONTINUOUS RUN. MAKE NO BREAKS IN THE WIRING, USE NO PULL BOXES. MAKE SURE THAT ALL CONDUITS ARE SEALED TO PROTECT AGAINST WATER ENTERING THE CONTROLLER AND PIT THROUGH UNDER-GROUND CONDUITS.
* WHEN MAKING PIPING CONNECTIONS TO PIT AND ALL PHASES OF CONSTRUCTION, CARE MUST BE TAKEN TO KEEP ALL DEBRIS OUT OF THE SYSTEM. DEBRIS CAN CAUSE BLOCKAGE IN PUMP AND JETS AT START-UP. THIS REQUIRES DISASSEMBLY OF THE SYSTEM AND MAY CAUSE DAMAGE.

HALL FOUNTAINS, INC.

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www.hallfountains.com

Installation of equipment is to be BY OTHERS

Only the items listed under the heading "Equipment by HALL" are to be supplied by HALL FOUNTAINS, INC.

[H] Indicates an item that is to be supplied by HALL Refer to the corresponding item number under the heading "Equipment by HALL".

Francis Marion University

Florence
South Carolina

Entrance Sign
Fountain Feature

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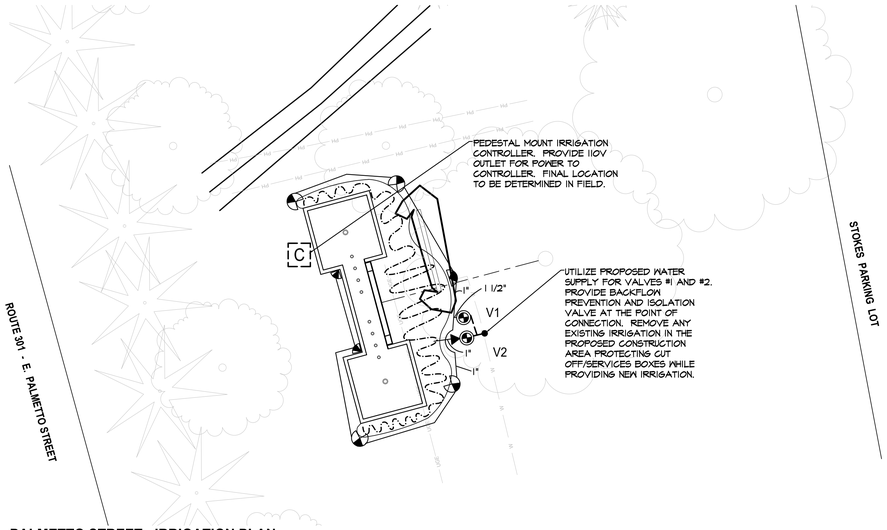
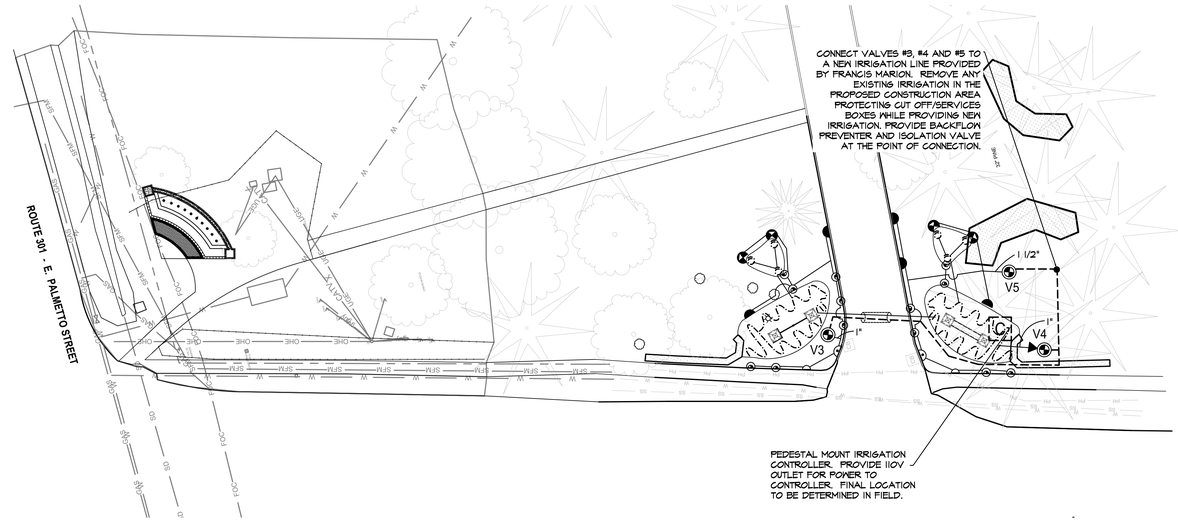
SHEET: F3 OF 3

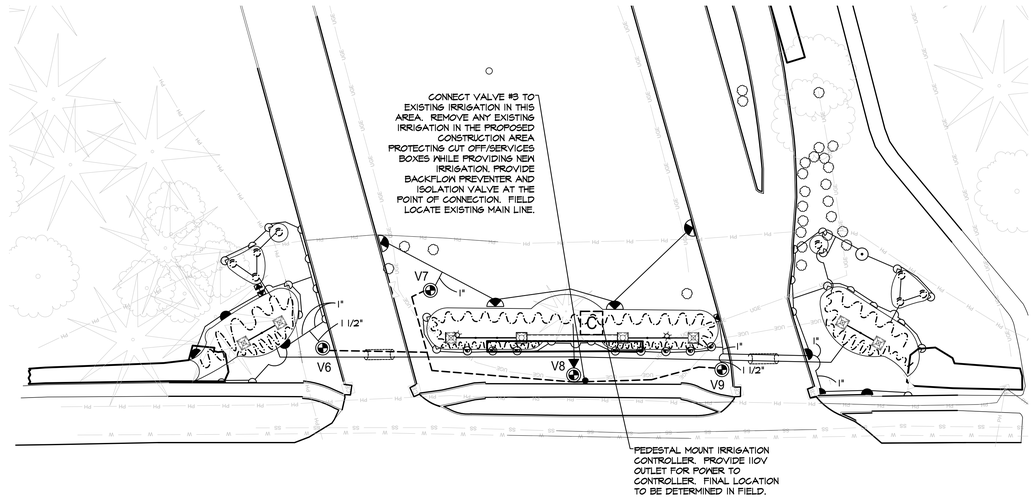
DRWG. NO.: H-15195



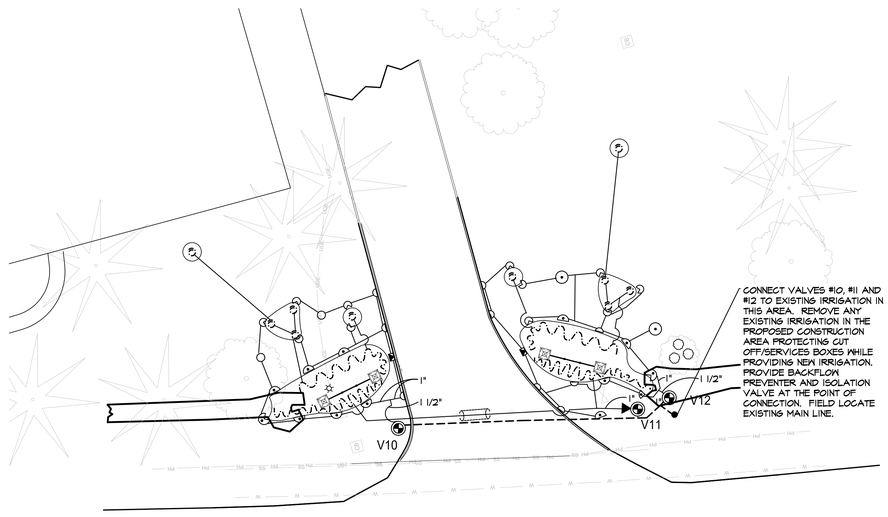
D5 / L02 **PALMETTO STREET - IRRIGATION PLAN**
1" = 20'-0"



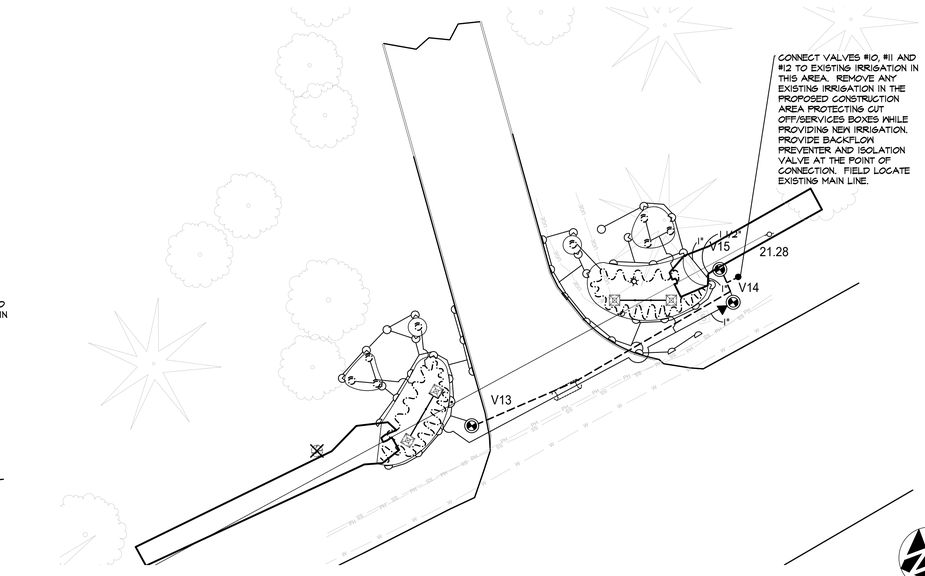
D3 / L02 **GATE 1 - IRRIGATION PLAN**
1" = 20'-0"



B5 / L02 **GATE 2 - IRRIGATION PLAN**
1" = 20'-0"



A5 / L02 **GATE 3 - IRRIGATION PLAN**
1" = 20'-0"



A3 / L02 **GATE 4 - IRRIGATION PLAN**
1" = 20'-0"

IRRIGATION LEGEND

- POINT OF CONNECTION
- C — RAINBIRD ESP-LXME CONTROLLER WITH RAIN SENSOR
- RAINBIRD PGA-100 SERIES ELECTRIC VALVE
- XCZ-100-B-COM
- RAINBIRD 5000 SERIES POP-UP ROTOR HEAD
  - 2.0 NOZ
  - 3.0 NOZ
  - 6.0 NOZ
- RAINBIRD SERIES POP-UP SPRAY HEAD
  - 8H
  - 10H
  - 10TQ
  - 10F
  - 12Q
  - 12H
  - 12TQ
  - 12F
  - 15TQ
  - 15H
  - 1556T
- 1 1/2" MAINLINE
- CLASS 160 OR 200 PVC PIPING SIZE AS NOTED
- RAINBIRD DRIP TUBING WITH RAIN-BUG EMITTERS
- 4" SCH. 40 PVC SLEEVING

VALVE SCHEDULE

VALVE	SIZE	TYPE	GPM
V1	1"	5004	23.17
V2	1"	DRIP	5±
V3	1"	1804	15.22
V4	1"	DRIP	10±
V5	1"	1804	16.28
V6	1"	1804	18.22
V7	1"	5004	12.66
V8	1"	DRIP	15±
V9	1"	1804	30.13
V10	1"	1804	22.81
V11	1"	DRIP	10±
V12	1"	1804	26.04
V13	1"	1804	18.07
V14	1"	DRIP	10±
V15	1"	1804	21.28

IRRIGATION NOTES

1. ALL IRRIGATION TO BE AS SPECIFIED OR APPROVED EQUAL.
2. SYSTEM DESIGNED TO RUN AT 35 GPM WITH 65 PSI.
3. CONTRACTOR TO COORDINATE WITH OWNER CONCERNING IRRIGATION METER PRIOR TO COMMENCEMENT OF WORK SO AS NOT TO DELAY COMPLETION OF IRRIGATION.
4. CONTRACTOR SHALL PERFORM PRESSURE AND FLOW TESTS AT PROPOSED POINT OF CONNECTION PRIOR TO INSTALLATION TO VERIFY THAT ADEQUATE DESIGN CRITERIA IS PRESENT.
5. ADJUSTMENT OF SPRINKLER HEADS AND DRIP LINES WILL BE NECESSARY IN THE FIELD.
6. DRIP TUBE SYMBOLS AND IRRIGATION PIPING LAYOUT PROVIDED FOR GENERAL LOCATIONS IN THE FIELD ONLY. SYMBOLS DO NOT NECESSARILY PORTRAY AN ACCURATE QUANTITY. THE DESIGN INTENT IS TO PROVIDE 100% HEAD TO HEAD COVERAGE. IF THIS CANNOT BE ACHIEVED, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
7. UTILIZE EMITTER DISTRIBUTION TUBING AS DETAILED.
8. INSTALL AUTO FLUSH VALVES ON DRIP TUBE AT ENDS AS NEEDED TO DRAIN DRIP TUBE AFTER EACH USE.
9. ALL DRIP TUBE TO BE INSTALLED UNDER MULCH.
10. WHERE IRRIGATION PIPING CROSSES SIDEWALKS, THE CONTRACTOR SHALL SHALL BE RESPONSIBLE FOR PLACING A SLEEVE 2 SIZES LARGER THAN THE CROSSING PIPE.
11. IRRIGATION CONTRACTOR TO ADJUST SPRAY PATTERNS TO SURROUNDING PLANT BEDS. OVERSPRAY ONTO BUILDINGS AND SIDE WALKS SHALL BE AVOIDED AS MUCH AS POSSIBLE.

GRAPHIC SCALE 1" = 20'-0"
0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

SOUTH CAROLINA — GRIMBALL COTTERILL & ASSOCIATES No.049 — CERTIFICATE OF AUTHORIZATION

STATE OF SOUTH CAROLINA — REGISTERED LANDSCAPE ARCHITECT — No. 1279 — MARK COTTERILL

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS
GATES 2, 3, AND 4
FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

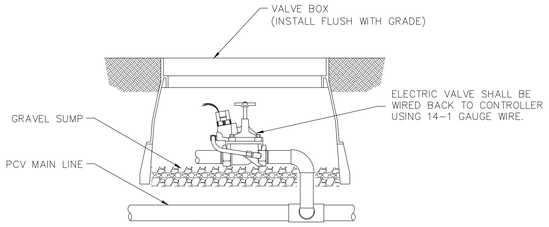
NO.	DATE	DESCRIPTION	BY
	10/03/23	100% FINAL REVIEW	

PRINCIPAL IN CHARGE: TMC
PROJECT L. ARCHITECT: BAK
DRAWN BY: SKC

SHEET TITLE:
IRRIGATION PLANS

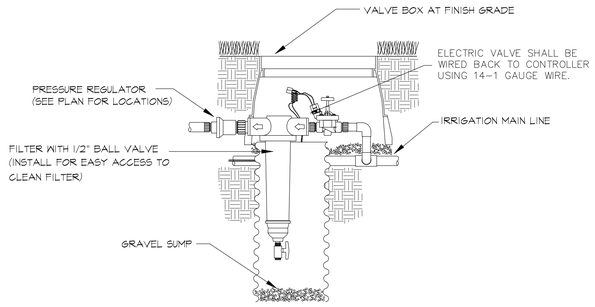
SHEET NO.
I01

PROJ. NO.
H18-9583-SG-E



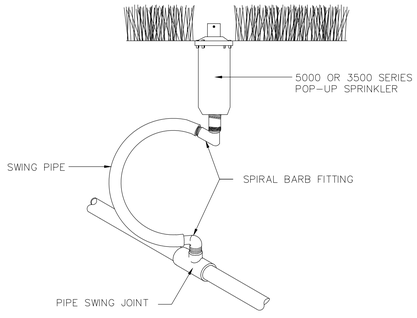
A / I02 **ELECTRIC VALVE**

SECTION NOT TO SCALE



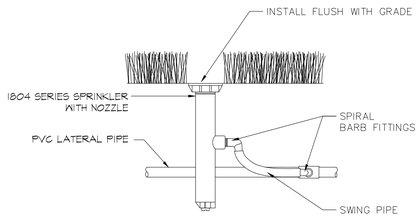
B / I02 **ELECTRIC VALVE-DRIP ZONE**

SECTION NOT TO SCALE



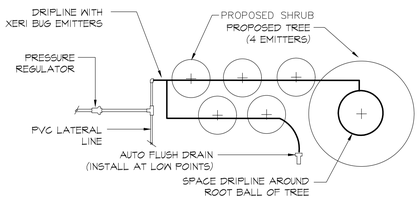
C / I02 **POP-UP ROTOR SPRINKLER**

SECTION NOT TO SCALE



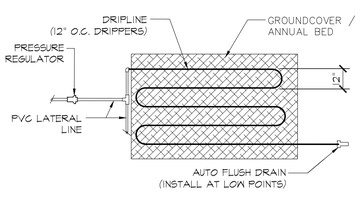
D / I02 **POP-UP SPRAY SPRINKLER**

SECTION NOT TO SCALE



E / I02 **DRIPLINE IN SHRUBS**

PLAN NOT TO SCALE



F / I02 **DRIPLINE IN GROUNDCOVER**

PLAN NOT TO SCALE

IRRIGATION NOTES

1. ALL PLASTIC PIPE FITTINGS TO BE MINIMUM SCHEDULE 40 PVC.

2. ALL MAIN LINES TO BE SCHEDULE 40 PVC OR SCHEDULE 200 PVC.

3. ALL LATERAL LINES TO BE SCHEDULE 200 PVC OR SCHEDULE 160 PVC.

4. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF SCHEDULE 40 PVC PIPE UNDER PAVED SURFACES AS NOTED ON THE DRAWINGS TO BE UTILIZED FOR IRRIGATION SLEEVING. THE LOCATION OF SLEEVING IS MARKED ON THE IRRIGATION PLAN. DEVIATIONS MAY OCCUR DURING CONSTRUCTION.

5. TRENCHES FOR PVC PIPE MAINLINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 18" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS. TRENCHES FOR PVC PIPE LATERAL SPRINKLER LINES SHALL BE EXCAVATED TO SUFFICIENT DEPTH OF 12" MINIMUM AND AN SUFFICIENT WIDTH TO PERMIT PROPER HANDLING AND INSTALLATION OF PIPE AND FITTINGS.

6. ALL CONTROL VALVES SHALL BE INSTALLED IN A VALVE BOX IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7. ALL WIRING TO BE USED FOR CONNECTING THE AUTOMATIC REMOTE CONTROL VALVE TO THE AUTOMATIC CONTROLLERS SHALL BE TYPE "UF", 14-1 STRANDED OR SOLID COPPER, SINGLE CONDUCTOR WIRE WITH PVC INSULATION AND BEAR UL APPROVAL FOR DIRECT UNDERGROUND BURIAL FEEDER CABLE. WIRE CONNECTIONS TO REMOTE CONTROL ELECTRIC VALVES AND SPLICES OF WIRE IN THE FIELD SHALL BE PEN-TITE WIRE CONNECTORS OR APPROVED EQUAL AND SCALING CEMENT.

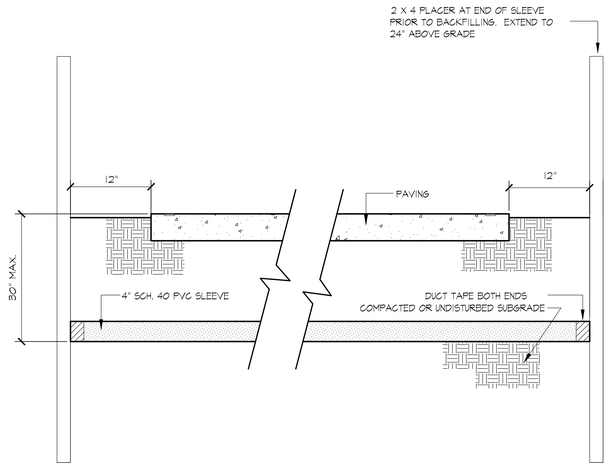
8. THE IRRIGATION CONTRACTOR SHALL CONNECT ALL VALVE WIRING TO A SPECIFIED CONTROLLER LOCATED AS NOTED ON THIS PLAN.

9. ALL CONTROL VALVE CABLES SHALL BE INSTALLED BY DIRECT BURIAL AT A MINIMUM DEPTH OF 12", WHERE PRACTICAL, THE WIRE SHALL BE INSTALLED IN THE SAME TRENCH AS THE MAINLINE PIPE.

10. AFTER COMPLETION OF THE PIPING INSTALLATION, THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" DRAWING SHOWING ALL SPRINKLER HEADS, VALVES, DRAINS AND PIPE LINES TO SCALE WITH DIMENSIONS WHERE REQUIRED. INSTRUCTION SHEETS AND PARTS LISTS COVERING ALL OPERATING EQUIPMENT WILL BE BOUND INTO A FOLDER AND FURNISHED TO THE OWNER IN DUPLICATE.

11. FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY FURNISH, WITHOUT COST TO THE OWNER, ANY AND ALL PARTS AND LABOR WHICH PROVE DEFECTIVE IN MATERIAL OR WORKMANSHIP.

12. DURING THE LAST MONTH OF THE GUARANTEE PERIOD, THE LANDSCAPE ARCHITECT AND CONTRACTOR SHALL INSPECT THE INSTALLATION TO DETERMINE THE CONDITION OF THE COMPLETE SYSTEM. A LIST OF DEFECTIVE MATERIALS OR INSTALLATIONS TO BE REPLACED SHALL BE MADE BY THE CONTRACTOR WITHIN THIRTY DAYS OF RECEIVING WRITTEN NOTIFICATION. REPLACED MATERIALS AND INSTALLATION SHALL BE IN ACCORD WITH THESE SPECIFICATIONS, DRAWINGS AND OR SCHEDULES.



G / I02 **SLEEVING DETAIL**

SECTION NOT TO SCALE

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
GRIMBALL COTTERILL & ASSOCIATES No.049

SEALS

STATE OF SOUTH CAROLINA LANDSCAPE
T. Mark Cotterill
MARK COTTERILL

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS
GATES 2, 3, AND 4
FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

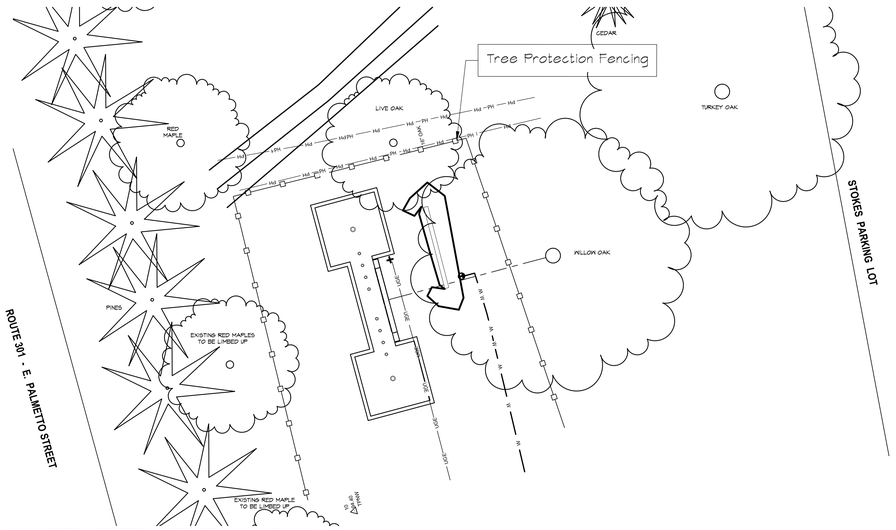
NO.	DATE	DESCRIPTION	BY
	10/03/23	100% FINAL REVIEW	

PRINCIPAL IN CHARGE: TMC
PROJECT L. ARCHITECT: BAK
DRAWN BY: SKC

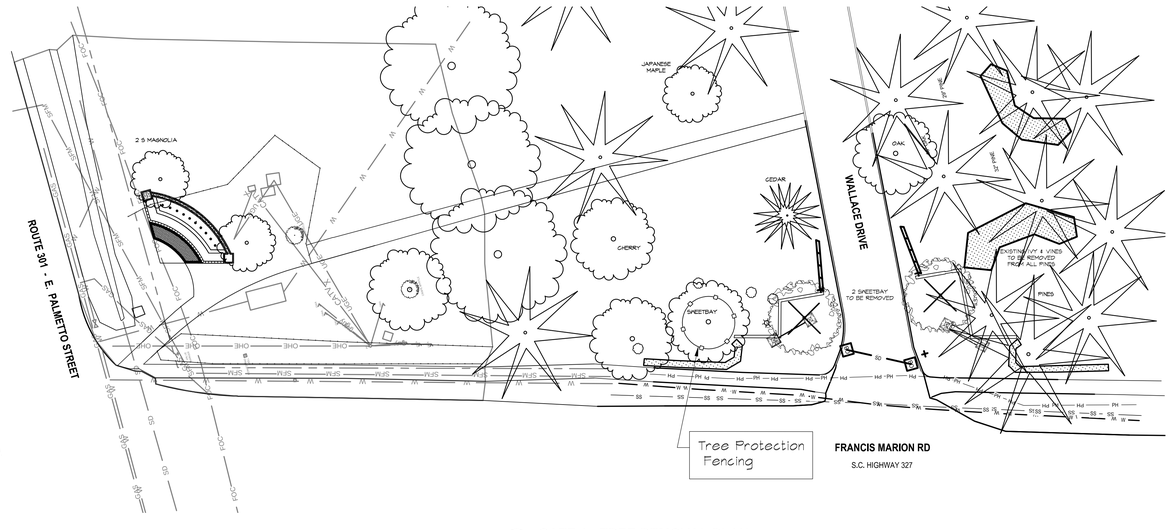
SHEET TITLE:
IRRIGATION DETAILS

SHEET NO. I02

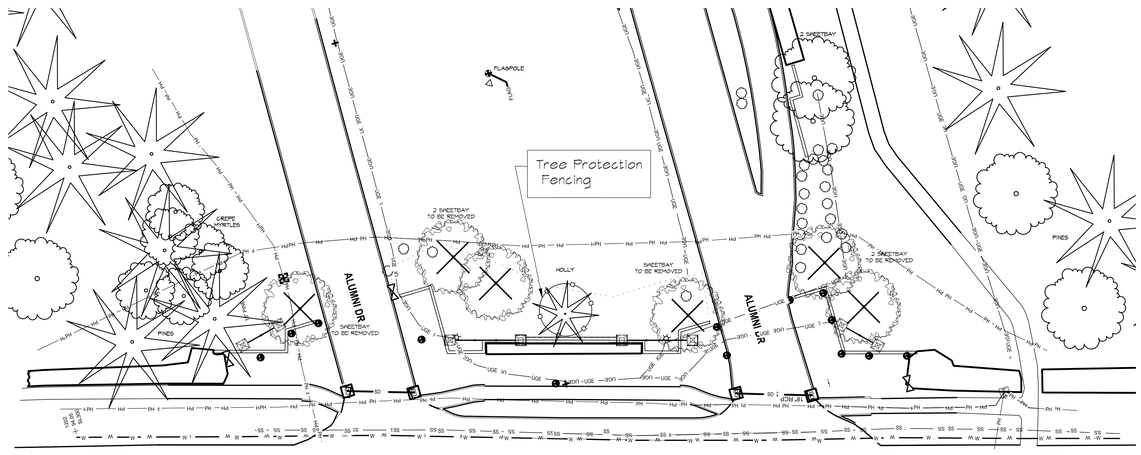
PROJ. NO. H18-9583-SG-E



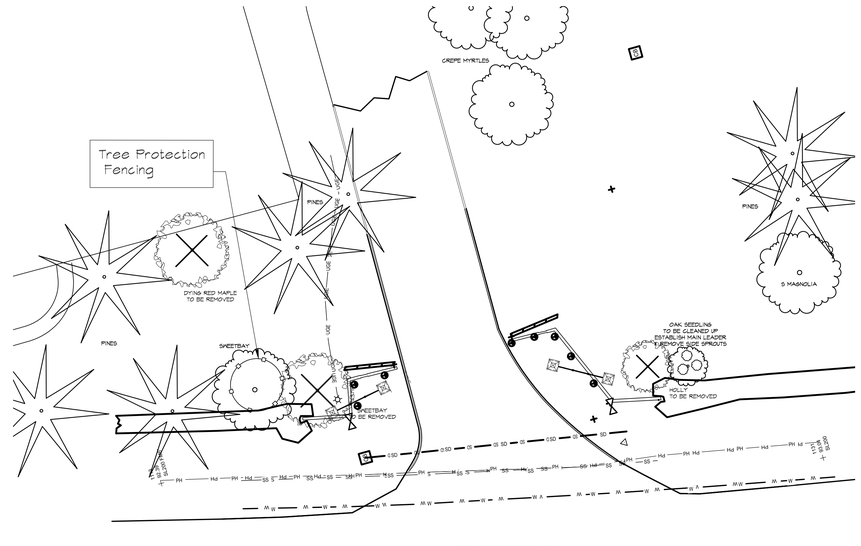
05 / L01 **PALMETTO STREET - TREE REMOVAL PLAN**
1" = 20'-0"



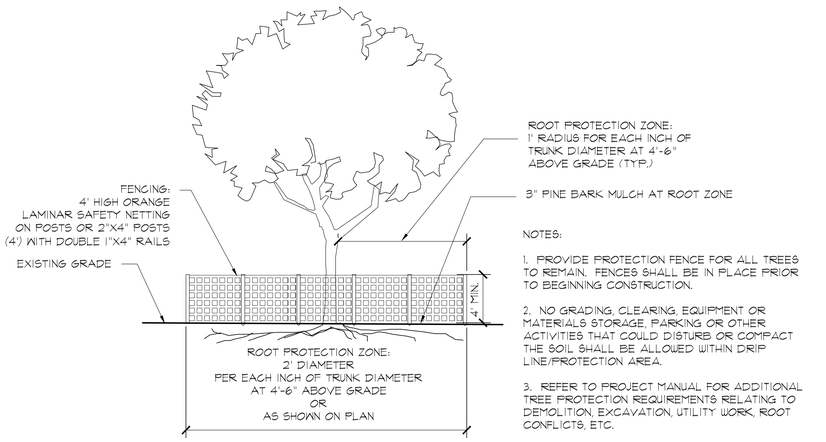
03 / L01 **GATE 1 - TREE REMOVAL PLAN**
1" = 20'-0"



05 / L01 **GATE 2 - TREE REMOVAL PLAN**
1" = 20'-0"



A5 / L01 **GATE 3 - TREE REMOVAL PLAN**
1" = 20'-0"



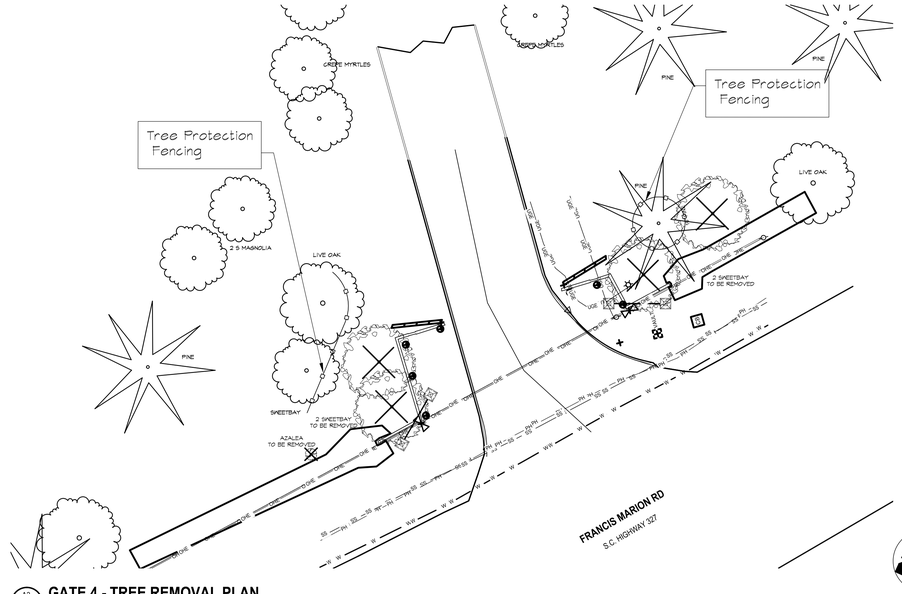
NOTES:

1. PROVIDE PROTECTION FENCE FOR ALL TREES TO REMAIN. FENCES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.

2. NO GRADING, CLEARING, EQUIPMENT OR MATERIALS STORAGE, PARKING OR OTHER ACTIVITIES THAT COULD DISTURB OR COMPACT THE SOIL SHALL BE ALLOWED WITHIN DRIP LINE/PROTECTION AREA.

3. REFER TO PROJECT MANUAL FOR ADDITIONAL TREE PROTECTION REQUIREMENTS RELATING TO DEMOLITION, EXCAVATION, UTILITY WORK, ROOT CONFLICTS, ETC.

A / L01 **TREE PROTECTION FENCING**
NOT TO SCALE



A3 / L01 **GATE 4 - TREE REMOVAL PLAN**
1" = 20'-0"

GRAPHIC SCALE 1" = 20'-0"
0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

SEALS

GRIMBALL COTTERILL & ASSOCIATES No.049
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA

STATE OF SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
No. 170
MARK COTTERILL

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
	10/03/23	100% FINAL REVIEW	

PRINCIPAL IN CHARGE: TMC
PROJECT L. ARCHITECT: BAK
DRAWN BY: BAK

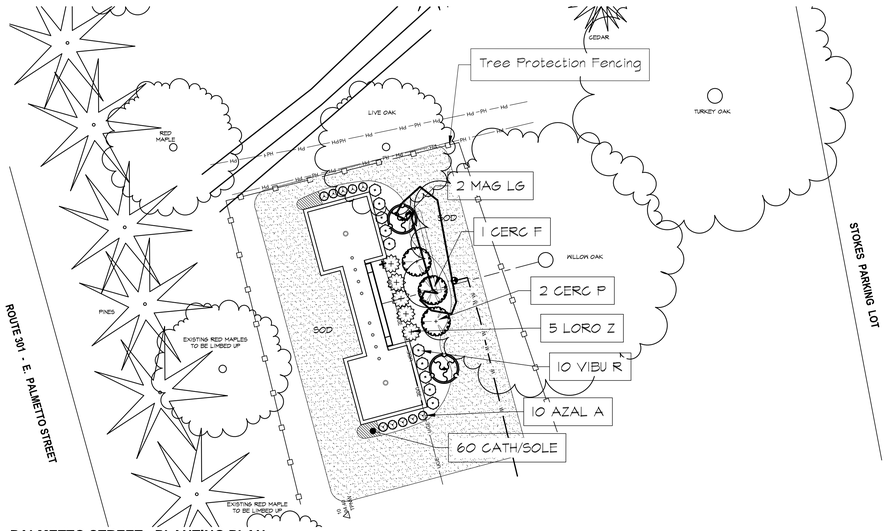
SHEET TITLE:

TREE REMOVAL PLANS

SHEET NO.

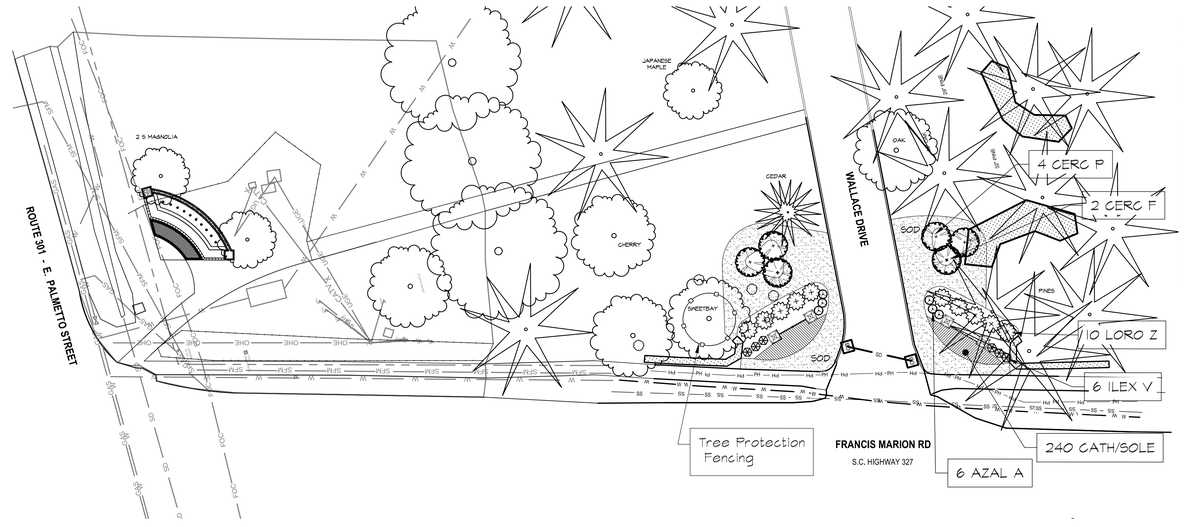
L01

PROJ. NO.
H18-9583-SG-E



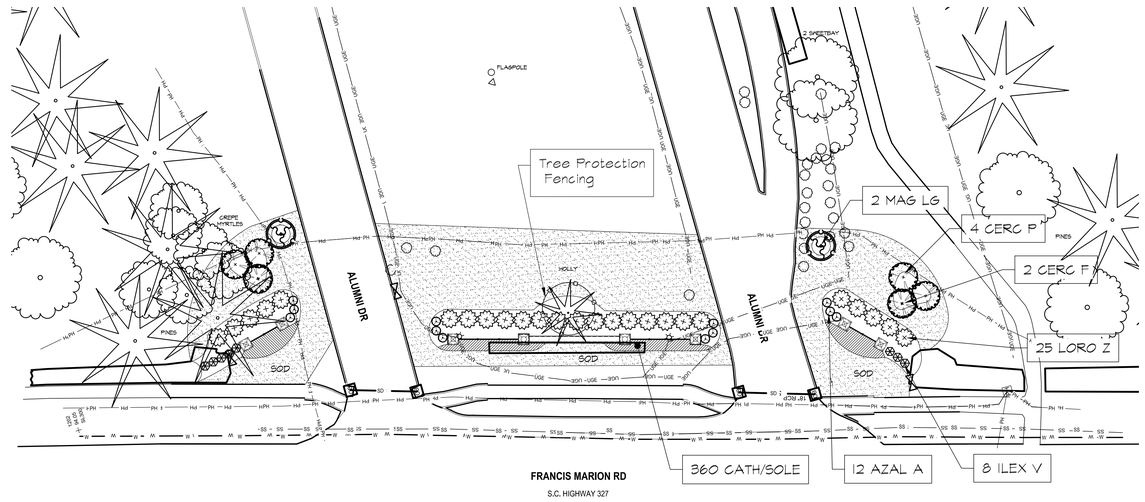
D5 L02 **PALMETTO STREET - PLANTING PLAN**

1" = 20'-0"



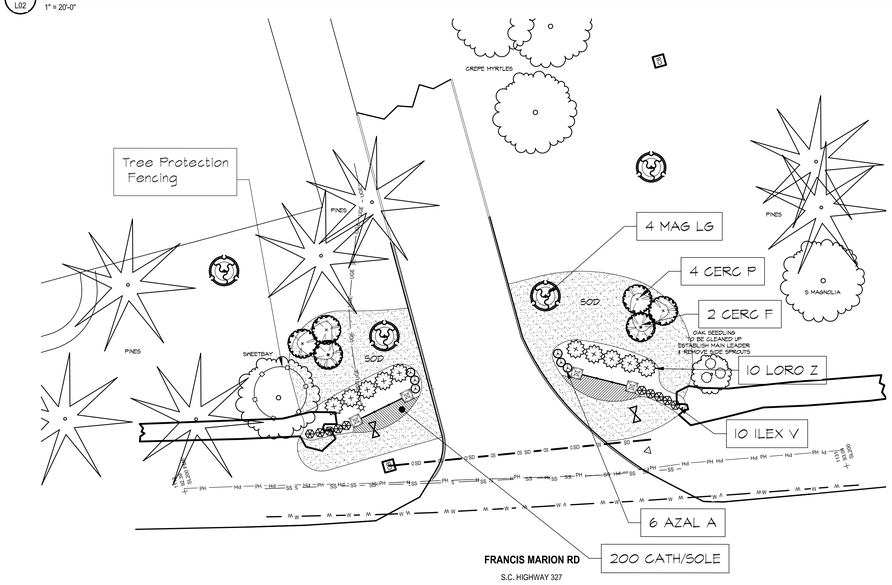
D3 L02 **GATE 1 - PLANTING PLAN**

1" = 20'-0"



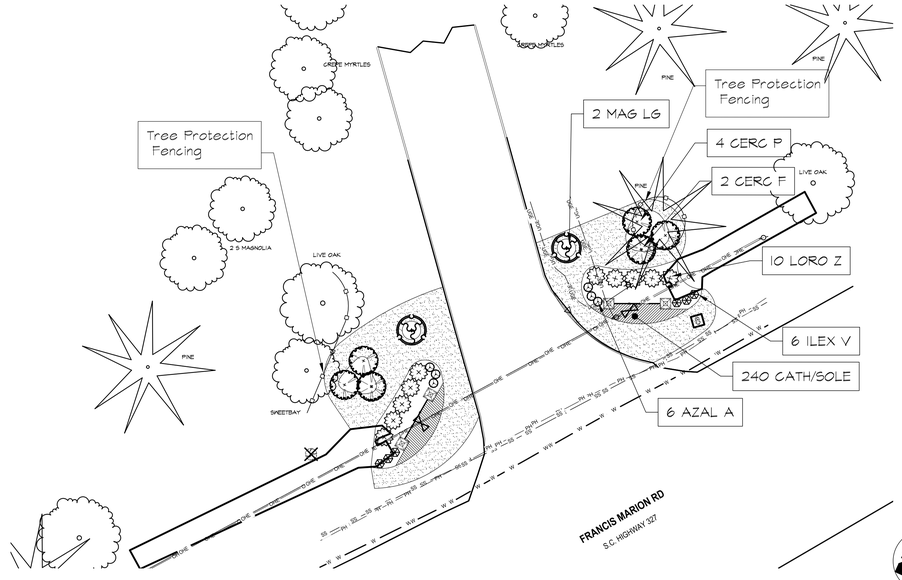
B5 L02 **GATE 2 - PLANTING PLAN**

1" = 20'-0"



A5 L02 **GATE 3 - PLANTING PLAN**

1" = 20'-0"



A3 L02 **GATE 4 - PLANTING PLAN**

1" = 20'-0"

PLANT LIST

	ABBR.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	SPREAD	HEIGHT	BALL DIA	NO. CANES	COMMENTS	QTY.
TREES	CERC P	CERCIS CAN. 'FOREST PANSY' or 'BLACK PEARL'	PURPLE LEAF REDBUD	1"		8'	20"	1	SPECIMEN	20
	CERC F	CERCIS CANADENSIS 'FLAME THROWER'	FLAME THROWER REDBUD	1"		8'	20"	1	SPECIMEN	10
	MAG LG	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	2 ½"	6'	12'	28"	1	SPECIMEN	10
SHRUBS	AZAL A	AZALEA x ENCORE 'AUTUMN EMBERS'	AUTUMN EMBERS ENCORE AZALEA		18"	18"	7 GAL.	3-5	PLANT 3' O.C.	40
	ILEX V	ILEX VOMITORIA 'CONDEAUX'	DWARF YAUPON HOLLY		24"	24"	10 GAL.	3-5	PLANT 3' O.C.	30
	LORO Z	LOROPETALUM CHINENSE 'ZHUZHOU'	ZHUZHOU LOROPETALUM		36'	4'	10 GAL.	2-3	PLANT 6' O.C.	60
	VIBU R	VIBURNUM OBOVATUM 'RAULSTON HARDY'	RAULSTON DWARF VIBURNUM		24"	24"	7 GAL.	3-5	MATCHING, SPECIMEN	10
GROUND COVERS	CATH	CATHARANTHUS ROSEUS	VINCA				QT.		PLANT 18" O.C.	550
	SOLE	SOLENOSTEMON MIX	SUN COLEUS				QT.		PLANT 18" O.C.	550
	SOD	CYNODON DACTYLON	BERMUDA GRASS - TIFFWAY 419						WELL ROOTED	19,000 SF/ AS REQ'D

NOTES:

1. EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANTS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT MAY BE NECESSARY.
2. PROPOSED PLANTING HEIGHT TAKES PRECEDENT OVER CONTAINER SIZE.
3. PROPOSED PLANTING REQUIRES INSTALLATION OF MECHANICAL IRRIGATION SYSTEM.
4. AREA TAKE OFFS AND QUANTITIES ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY AND ALERT LANDSCAPE ARCHITECT TO ALL DISCREPANCIES.
5. ALL DISTURBED AREAS NOT COVERED BY SITE IMPROVEMENTS, OR PLANT BEDS SHALL BE SODDED AND IRRIGATED. IT IS UP TO THE CONTRACTOR TO LIMIT SITE DISTURBANCE.

GRAPHIC SCALE 1" = 20'-0"

0' 10' 20' 40' 60'

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

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SEALS

GRIMBALL COTTERILL & ASSOCIATES No.049
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA

STATE OF SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
No. 1179
MARK COTTERILL

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
	10/03/23	100% FINAL REVIEW	

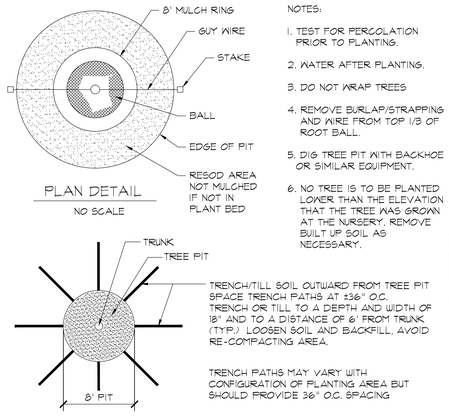
PRINCIPAL IN CHARGE: TMC
PROJECT L. ARCHITECT: BAK
DRAWN BY: BAK

SHEET TITLE:

PLANTING PLANS

SHEET NO. L02

PROJ. NO. H18-9583-SG-E



PLAN DETAIL

NO SCALE

PLAN DETAIL: ROOT PATH TRENCHES

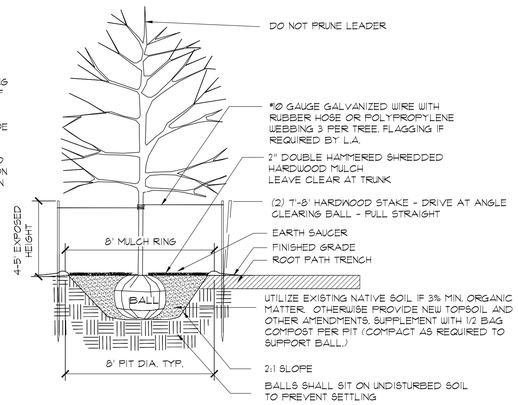
NO SCALE

NOTES:

1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. WATER AFTER PLANTING.
3. DO NOT WRAP TREES
4. REMOVE BURLAP/STRAPPING AND WIRE FROM TOP 1/3 OF ROOT BALL.
5. DIG TREE PIT WITH BACKHOE OR SIMILAR EQUIPMENT.
6. NO TREE IS TO BE PLANTED LOWER THAN THE ELEVATION THAT THE TREE WAS GROWN AT THE NURSERY. REMOVE BUILT UP SOIL AS NECESSARY.

TRENCH/TILL SOIL OUTWARD FROM TREE PIT SPACE TRENCH PATHS AT 36" O.C. TRENCH OR TILL TO A DEPTH AND WIDTH OF 18" AND TO A DISTANCE OF 6' FROM TRUNK (TYP.) LOOSEN SOIL AND BACKFILL, AVOID RE-COMPACTING AREA.

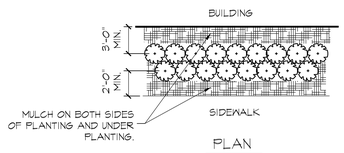
TRENCH PATHS MAY VARY WITH CONFIGURATION OF PLANTING AREA BUT SHOULD PROVIDE 36" O.C. SPACING



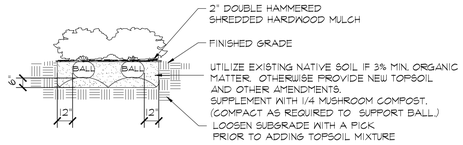
SECTION

A L03 TREE PLANTING AND STAKING

NOT TO SCALE



PLAN



NOTES:
1. TEST FOR PERCOLATION PRIOR TO PLANTING.
2. REMOVE PAPER, PLASTIC OR METAL CONTAINER THAT MAY BE AROUND ROOTS
3. WATER AFTER PLANTING
4. DO BED PREPARATION ON ALL SHRUB & GROUNDCOVER AREAS

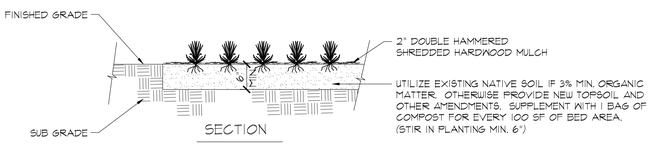
SECTION

B L03 SHRUB PLANTING

NOT TO SCALE

PLAN

NOTE:
TILL COMPOST 6" DEEP. REMOVE ALL STICKS, STONES, ETC. RAKE SMOOTH PRIOR TO PLANTING.



SECTION

C L03 TYPICAL GROUNDCOVER PLANTING

NOT TO SCALE

INSTRUCTIONS FOR PERFORMING A PERCOLATION TEST

1. WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. HOLE DIAMETER SHOULD BE A MINIMUM OF 4 INCHES. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT.
2. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO PRE-WET THE SOIL.
3. REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.
4. TO AID IN MEASUREMENT, PLACE A STICK ACROSS THE TOP OF THE HOLE AND USE A RULER OR MEASURING TAPE TO MARK PERIODIC DROPS IN WATER LEVEL.
5. ALLOW THE HOLE TO DRAIN FOR AT LEAST ONE HOUR. A LONGER PERIOD OF TIME (2 TO 3 HOURS) WILL GIVE A MORE ACCURATE READING OF AVERAGE PERCOLATION RATES.
6. DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR AND REFER TO THE TABLE BELOW TO INTERPRET RESULTS.

HOW TO INTERPRET RESULTS	
IF WATER LEVEL IN HOLE DROPS...	SITE IS...
LESS THAN ONE-HALF INCH PER HOUR	POORLY DRAINED AND SUITED TO WET -SITE SPECIES
ONE HALF-INCH TO ONE INCH PER HOUR	MODERATELY WELL DRAINED AND ACCEPTABLE FOR MANY SPECIES INCLUDING WET SITE SPECIES
MORE THAN ONE INCH PER HOUR	WELL DRAINED AND SUITABLE FOR ALL SPECIES INCLUDING SENSITIVE SPECIES

PERCOLATION TEST HOLE

D L03 PERCOLATION TEST

ISOMETRIC

NOT TO SCALE

GENERAL NOTES

1. EXISTING ECOLOGY AND AESTHETICS WILL OFTEN CAUSE ADJUSTMENT OF THESE PLANS TO FIT THE SITE. STAKE-OUT BY THE CONTRACTOR AND ADJUSTMENT BY THE LANDSCAPE ARCHITECT IS ABSOLUTELY NECESSARY.

2. LOCATIONS OF THOSE UTILITIES SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE RESULTING FROM THE FAILURE TO DO SO. CONTACT PALMETTO UTILITY PROTECTION SERVICE AT 1-888-721-7877 AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION.

3. CONTRACTOR SHALL INFORM LANDSCAPE ARCHITECT IF PROPOSED DESIGN IS IN CONFLICT WITH EXISTING OR PROPOSED UTILITIES. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ADJUST PROPOSED DESIGN OR UTILITIES AS NECESSARY TO RESOLVE CONFLICTS.

PLANTING NOTES

1. PLANTS LABELED N/G ARE NOT IN CONTRACT AND ARE NOT A PART OF THIS PHASE OF WORK. PLANTING FOR MUCH OF THIS PROJECT WILL BE DONE IN PREVIOUSLY PAVED AREAS. IT IS CRITICAL THAT THE CONTRACTOR BREAK UP COMPACTED SOIL THOROUGHLY, REMOVE INORGANIC SUBSOIL, AND PROVIDE NEW TOPSOIL AND PLANTING AMENDMENTS AS REQUIRED TO ENSURE FUTURE PLANT HEALTH.

2. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.

3. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.

4. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS' VERTICAL GROWTH (TOP CANDLE).

5. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.

6. THE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE LANDSCAPE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO OPENING ANY PLANTING PITS.

7. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL DO PERCOLATION TEST AS DETAILED ON DETAIL D/L03. THE OWNER OR LANDSCAPE ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT GIVEN AREA DOES NOT DRAIN PROPERLY, A PVC DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.

8. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PANS, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE LANDSCAPE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE, THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.

9. PLANTING PITS FOR TREE AND SHRUBS SHALL BE PREPARED AS PER DETAILS.

10. DOUBLE HAMMERED SHREDDED HARDWOOD MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. SHREDDED HARDWOOD MULCH SHALL BE TWO INCHES DEEP. A SAMPLE OF MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.

11. ALL TREES ARE TO BE STAKED IMMEDIATELY AFTER PLANTING AS DETAILED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF STAKING HOSES, ETC. AT THE END OF THE ONE YEAR GUARANTEE PERIOD.

12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THE PROJECT.

13. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FINAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THE CONTRACTOR DURING THE ONE YEAR GUARANTEE PERIOD.

14. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE AND SHALL BE SUBJECT TO A ONE (1) YEAR GUARANTEE FROM THE DATE OF SATISFACTORY REPLACEMENT.

15. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT OPEN OR UNATTENDED OVERNIGHT.

16. PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.

17. ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS (WHETHER SHOWN ON THE PLANS OR NOT) SHALL BE STABILIZED AND EITHER SEEDED, SODDED, OR MULCHED BY CONTRACTOR, AS DIRECTED BY OWNER, AT NO ADDITIONAL COST TO CONTRACT.

GRASSING SCHEDULE (PER 1000 SF)

NOTE: SEED ALL DISTURBED AREAS DUE TO GRADING OR TRENCHING AND ALL AREAS NOT TO BE PLANTED OR SODDED.

FROM MAY 1 - AUGUST 31

1 LB. BROWNTOP MILLET
1 LB. HULLED BERMUDA
6 OUNCES CENTIPEDE GRASS
25 LBS. 10-10-10 FERTILIZER (50% SLOW RELEASE NITROGEN)
75 LBS. LIMESTONE

FROM SEPTEMBER 1 - APRIL 30

2 LB. ANNUAL RYE
1 LB. UNHULLED BERMUDA
6 OUNCES CENTIPEDE GRASS
25 LBS. 10-10-10 FERTILIZER (50% SLOW RELEASE NITROGEN)
75 LBS. LIMESTONE

GRIMBALL COTTERILL
LANDSCAPE ARCHITECTS & LAND PLANNERS

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

GRIMBALL COTTERILL & ASSOCIATES No.049 — SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION

SEALS

STATE OF SOUTH CAROLINA — LANDSCAPE — J. Mark Cotterill — MARK COTTERILL

FRANCIS MARION UNIVERSITY

ENTRANCE GATE RENOVATIONS
GATES 2, 3, AND 4

FLORENCE, SOUTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
	10/03/23	100% FINAL REVIEW	

PRINCIPAL IN CHARGE: TMC
PROJECT L. ARCHITECT: BAK
DRAWN BY: BAK

SHEET TITLE:

PLANTING DETAILS

SHEET NO. L03

PROJ. NO. H18-9583-SG-E