

# NMMC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID



## MARINE CORPS BASE, QUANTICO VIRGINIA

CONSTRUCTION CONTRACT NO.  
PUBLIC WORKS NO. 2015199



**SUMMER CONSULTANTS INCORPORATED**  
7900 Westpark Dr. | Suite A405 | McLean, VA 22102  
(703) 556-8820 | www.summerconsultants.com

APPROVED  
FOR COMMANDER NAVFAC  
ACTIVITY  
SATISFACTORY TO DATE  
DES EP DRW EP CRK SJS  
BRANCH MANAGER  
CHIEF ENGINEER

NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO, VIRGINIA  
QUANTICO, VA  
NMMC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID  
COVER SHEET

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<i>[Signature]</i>	6/17/16	CUSTOMER
<i>[Signature]</i>	6/17/16	ROICC
<i>[Signature]</i>	6/17/16	PWO
<i>[Signature]</i>	6/17/16	DIRECTOR OF ENGINEERING
<i>[Signature]</i>	6/17/16	FACILITIES MAINTENANCE OFFICER
<i>[Signature]</i>	6/17/16	BASE FIRE SAFETY
<i>[Signature]</i>	6/17/16	NREA BRANCH
<i>[Signature]</i>	6/17/16	BASE SAFETY

SCALE: AS NOTED  
PROJECT NO. PWS 2015199  
CONSTR. CONTR. NO.  
NAVFAC DRAWING NO. 3190246  
SHEET 1 OF 26  
G-001



1

2

3

4

5

D

C

B

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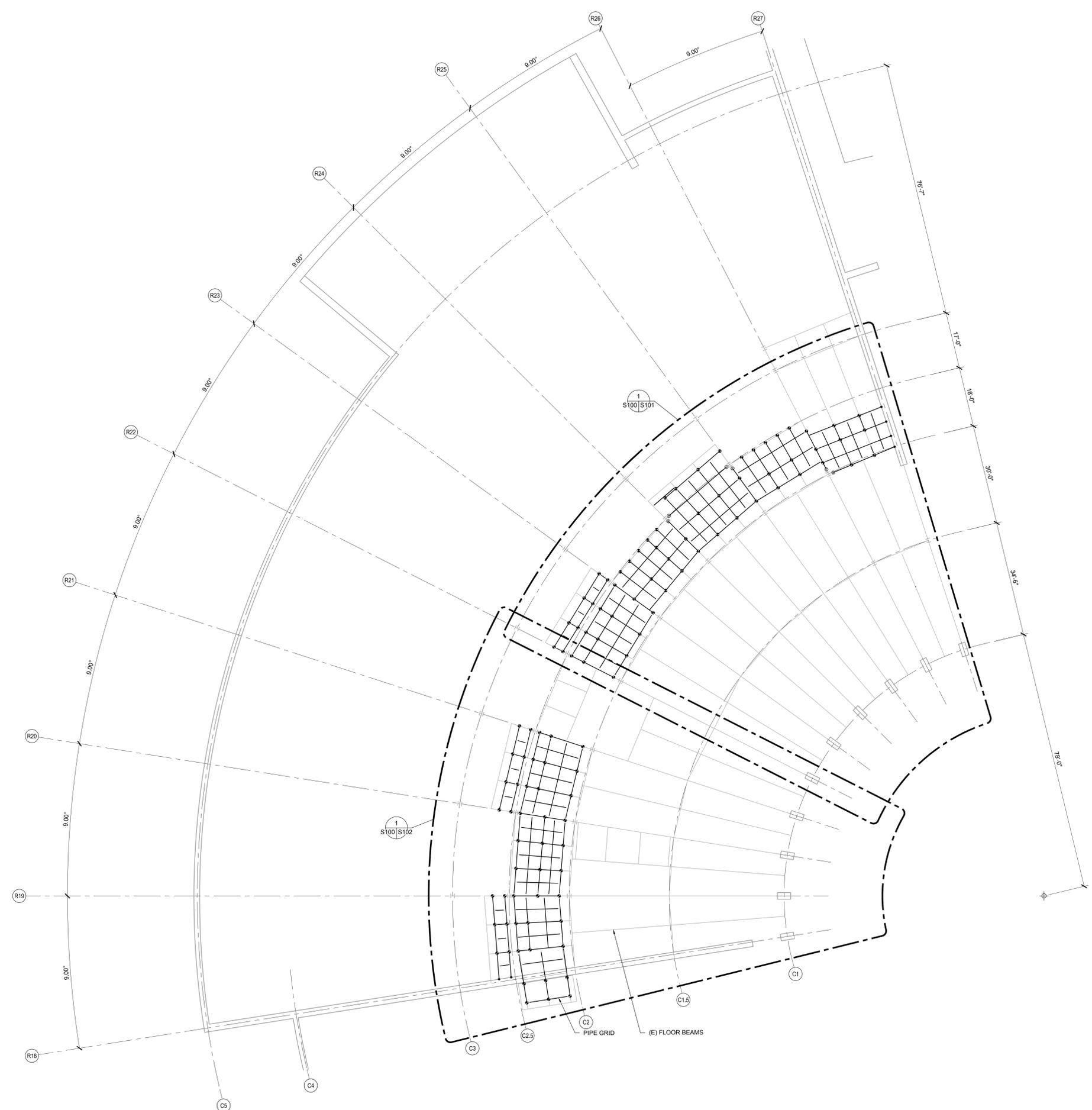
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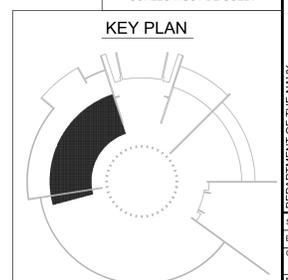
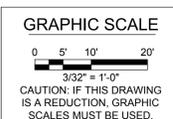
B

A

NOTES:  
 1. CONTRACTOR SHALL VERIFY EXISTING STEEL LOCATIONS AND NOTIFY NAVFAC PROJECT MANAGER OF ANY DISCREPANCIES FROM THESE DRAWINGS PRIOR TO INSTALLATION OF GRID SUPPORTS.



1 BASE BID - PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK  
 S-100 | S-100 SCALE: 3/32" = 1'-0"



**WOODS • PEACOCK**  
 ENGINEERING CONSULTANTS  
 5255 Cherokee Ave., Suite 420, Alexandria, VA 22312-2052

SYMBOL	DESCRIPTION	DATE	APPROVED



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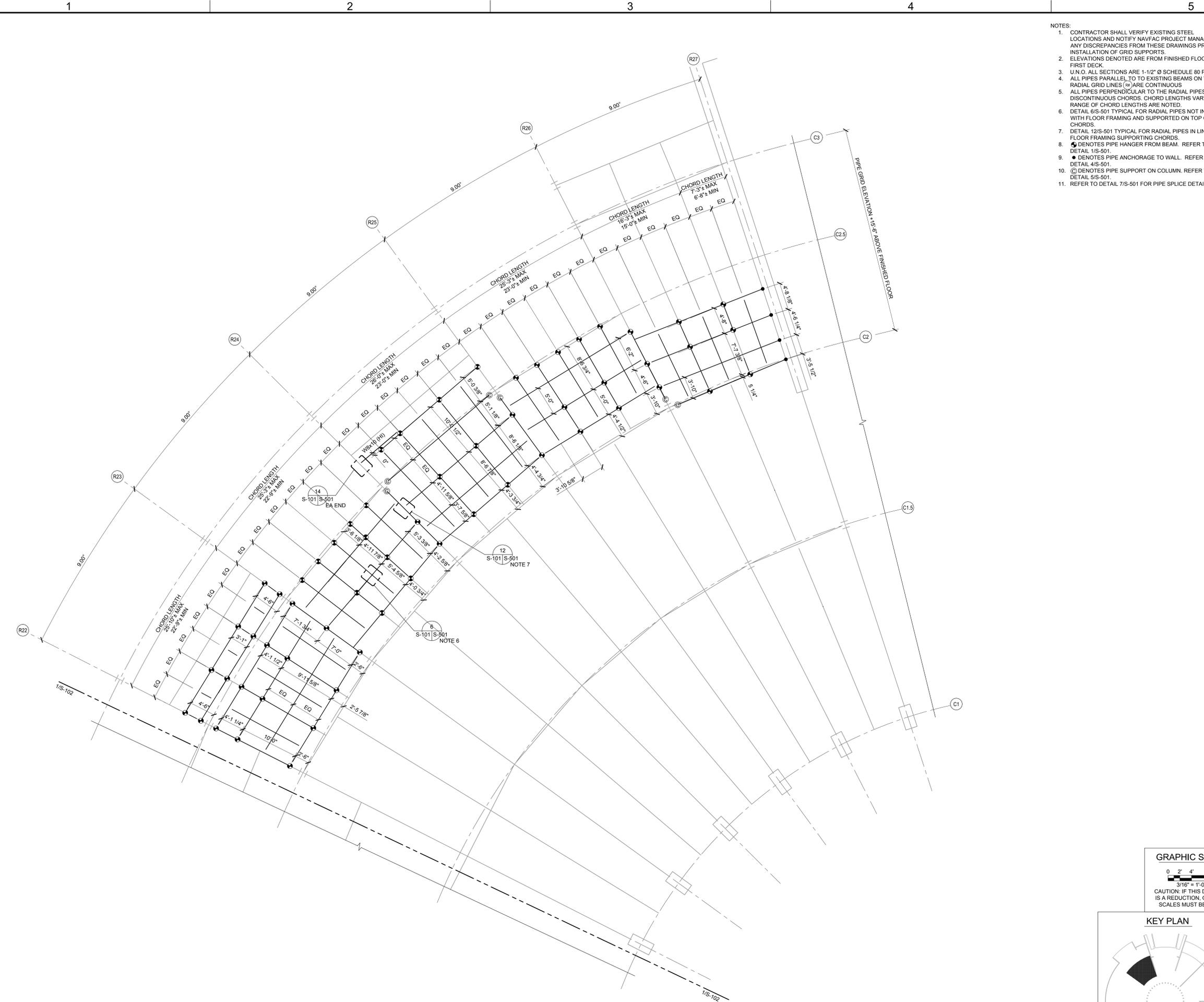
APPROVED: \_\_\_\_\_  
 FOR COMMANDER NAVFAC  
 ACTIVITY: \_\_\_\_\_  
 SATISFACTORY TO: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DES: ANG DRW CAD CHK TMP  
 CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
 PUBLIC WORKS DEPARTMENT  
 MARINE CORPS BASE QUANTICO, VIRGINIA  
 QUANTICO, VA

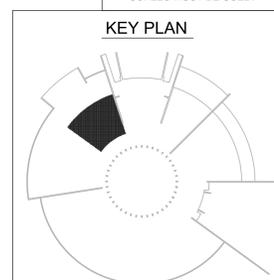
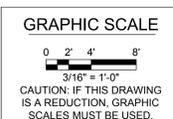
**NMVC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**  
 PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK - BASE BID

SCALE: AS NOTED  
 PROJECT NO: FNB 2015199  
 CONSTR. CONTR. NO.: \_\_\_\_\_  
 NAVFAC DRAWING NO.: 3190248  
 SHEET 3 OF 26

**S-100**



- NOTES:
1. CONTRACTOR SHALL VERIFY EXISTING STEEL LOCATIONS AND NOTIFY NAVFAC PROJECT MANAGER OF ANY DISCREPANCIES FROM THESE DRAWINGS PRIOR TO INSTALLATION OF GRID SUPPORTS.
  2. ELEVATIONS DENOTED ARE FROM FINISHED FLOOR OF FIRST DECK.
  3. U.N.O. ALL SECTIONS ARE 1-1/2" Ø SCHEDULE 80 PIPE.
  4. ALL PIPES PARALLEL TO TO EXISTING BEAMS ON THE RADIAL GRID LINES (R) ARE CONTINUOUS.
  5. ALL PIPES PERPENDICULAR TO THE RADIAL PIPES ARE DISCONTINUOUS CHORDS. CHORD LENGTHS VARY. RANGE OF CHORD LENGTHS ARE NOTED.
  6. DETAIL 6/S-501 TYPICAL FOR RADIAL PIPES NOT IN LINE WITH FLOOR FRAMING AND SUPPORTED ON TOP OF PIPE CHORDS.
  7. DETAIL 12/S-501 TYPICAL FOR RADIAL PIPES IN LINE WITH FLOOR FRAMING SUPPORTING CHORDS.
  8. (H) DENOTES PIPE HANGER FROM BEAM. REFER TO DETAIL 1/S-501.
  9. (A) DENOTES PIPE ANCHORAGE TO WALL. REFER TO DETAIL 4/S-501.
  10. (C) DENOTES PIPE SUPPORT ON COLUMN. REFER TO DETAIL 5/S-501.
  11. REFER TO DETAIL 7/S-501 FOR PIPE SPLICE DETAIL.



1 BASE BID - PARTIAL PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK  
S-100 | S-101 SCALE: 3/16" = 1'-0"

SYMBOL	DESCRIPTION	DATE	APPROVED



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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES: ANG DRW: CAD CHK: TMP

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO  
QUANTICO, VA

**NMVC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**

PARTIAL PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK - BASE BID

SCALE: AS NOTED  
PROJECT NO: PWB2015199  
CONSTR. CONTR. NO:

NAVFAC DRAWING NO: 3190249  
SHEET 4 OF 26

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**S-101**

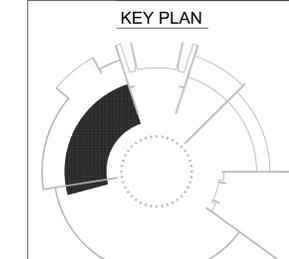
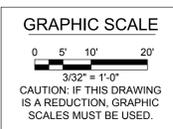
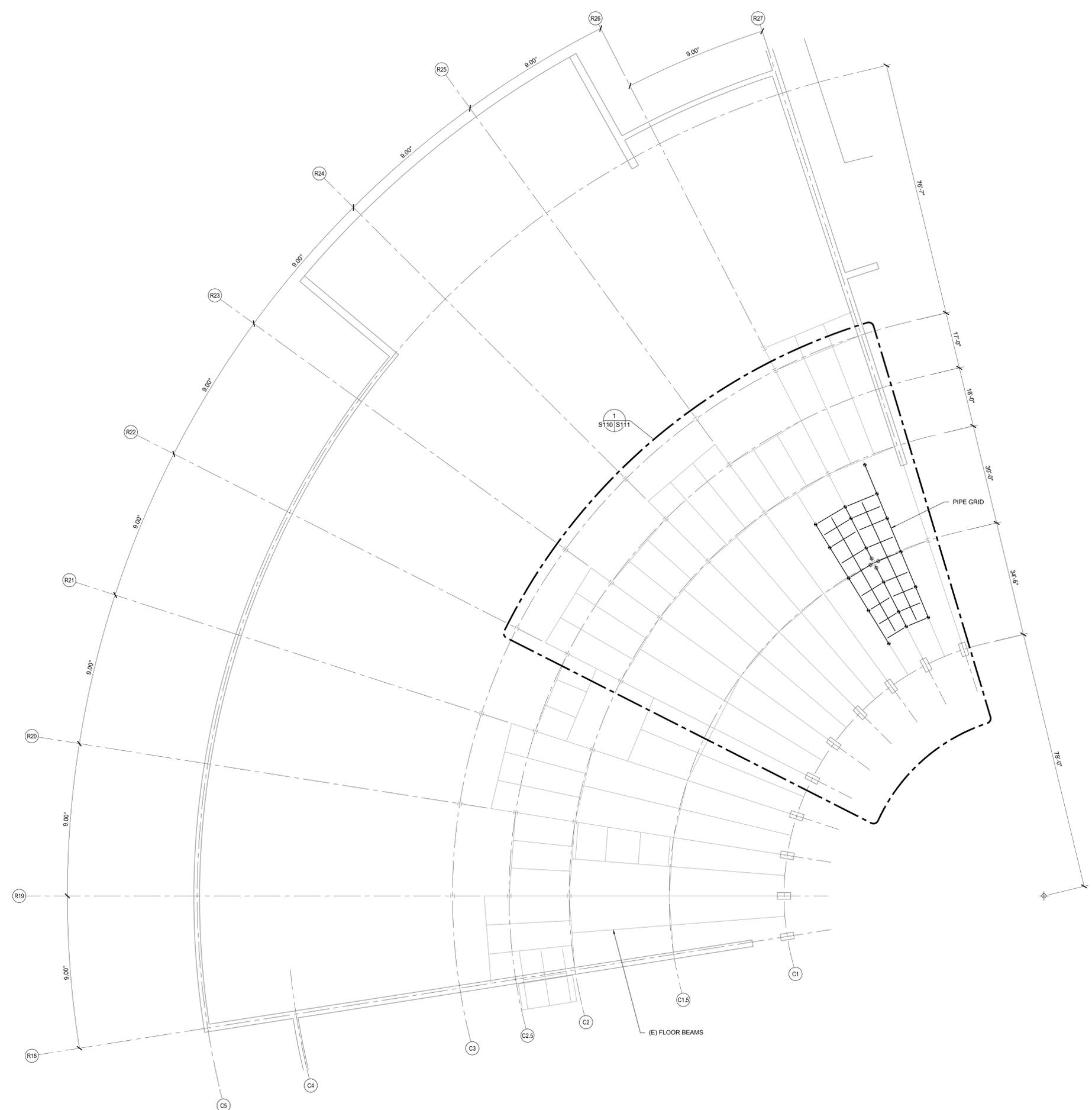






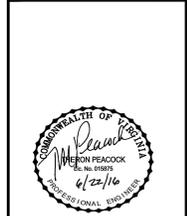
NOTES:  
1. CONTRACTOR SHALL VERIFY EXISTING STEEL LOCATIONS AND NOTIFY NAVFAC PROJECT MANAGER OF ANY DISCREPANCIES FROM THESE DRAWINGS PRIOR TO INSTALLATION OF GRID SUPPORTS.

D  
C  
B  
A



1 BID OPTION 1 - PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK  
S-110/S-110 SCALE: 3/32" = 1'-0"

SYMBOL	DESCRIPTION	DATE	APPROVED



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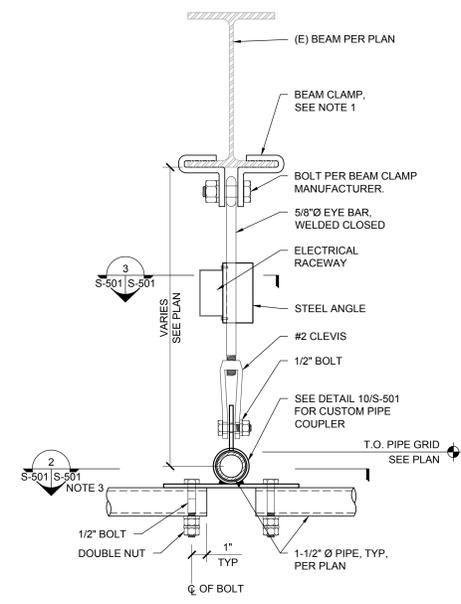
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QUANTICO, VA  
**NMVC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**  
PIPE GRID FRAMING PLAN AT UNDERSIDE OF SECOND DECK - BID OPTION 1

SCALE: AS NOTED  
PROJECT NO: FNB-2013199  
CONSTR. CONTR. NO:  
NAVFAC DRAWING NO: 3190253  
SHEET 8 OF 26  
**S-110**

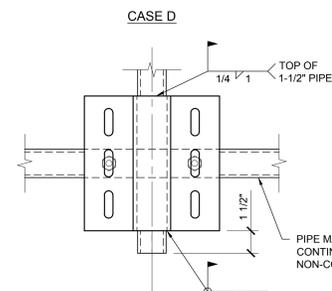
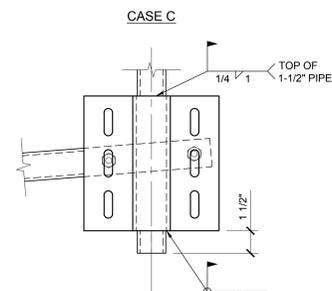
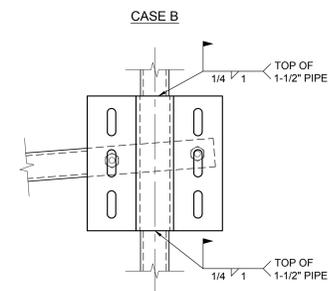
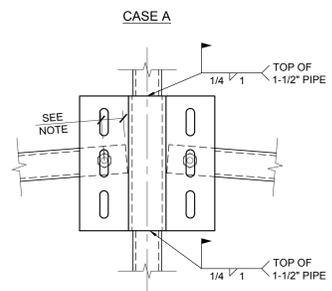
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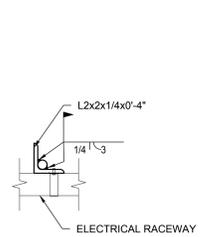
NOTES:  
 1. BEAM CLAMP RATED TO RESIST 3000 POUNDS FACTORED TENSION LOAD. (BASIS OF DESIGN: B-LINE BY EATON PART #B3050)  
 2. ORIENTATION OF HANGER PIECE RELATIVE TO BEAM VARIES.  
 3. HANGING PIPE CONDITIONS VARY. REFER TO 2/S-501 FOR MULTIPLE HANGING PIPE CONDITIONS.

1 DETAIL - PIPE HANGER FROM STEEL BEAM  
 S-101 S-501 SCALE: 3" = 1'-0"

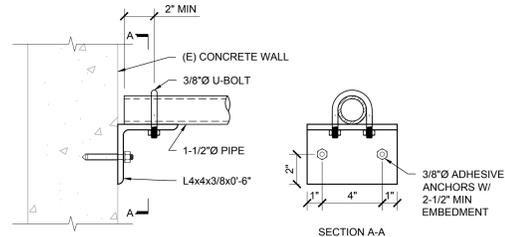


NOTES:  
 1. ALL BOLTS SHALL BE 1/2" Ø AND ALL BOLT HOLES DRILLED IN 1-1/2" Ø PIPE SHALL BE 1" AWAY FROM EDGE OF PIPES.  
 2. ALL BOLTS SHALL BE DOUBLE NUTTED.

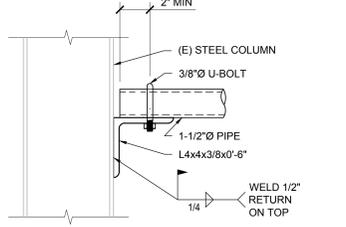
2 DETAIL - PIPE HANGER TOP VIEW  
 S-501 S-501 SCALE: 3" = 1'-0"



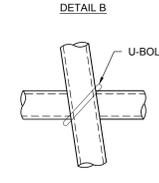
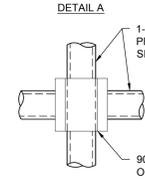
3 DETAIL - ELECTRICAL RACEWAY BRACKET  
 S-501 S-501 SCALE: 3" = 1'-0"



4 DETAIL - CONNECTION TO WALL  
 S-101 S-501 SCALE: 3" = 1'-0"

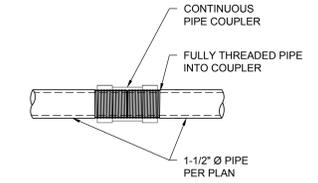


5 DETAIL - CONNECTION TO STEEL COLUMN  
 S-101 S-501 SCALE: 3" = 1'-0"

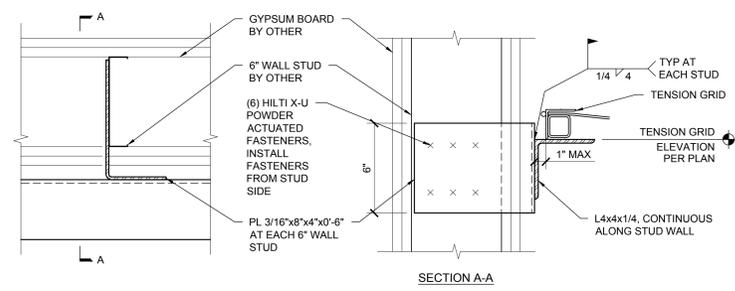


NOTES:  
 1. PIPES RUNNING PARALLEL TO EXISTING STEEL BEAMS RUN ON TOP OF PIPES RUNNING PERPENDICULAR TO BEAMS.  
 2. EITHER DETAIL A OR DETAIL B CAN BE USED BASED UPON FIELD CONDITIONS.

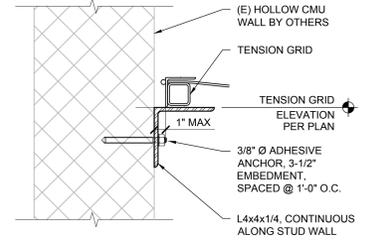
6 DETAIL - PIPE COUPLER  
 S-101 S-501 SCALE: 3" = 1'-0"



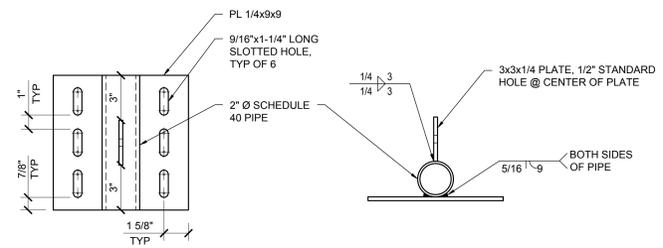
7 DETAIL - TYPICAL PIPE SPLICE  
 S-501 S-501 SCALE: 3" = 1'-0"



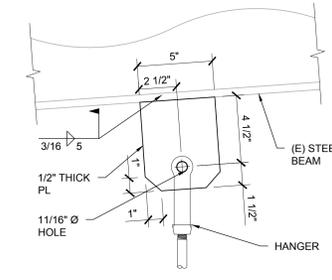
8 DETAIL - TENSION GRID SILL  
 S-104 S-501 SCALE: 3" = 1'-0"



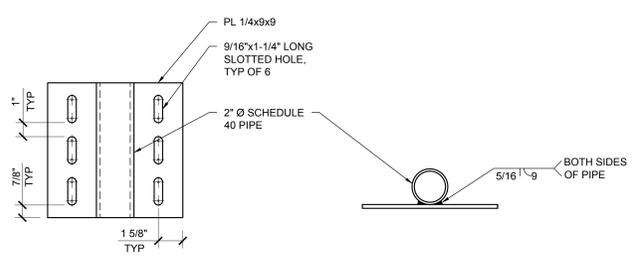
9 DETAIL - TENSION GRID SILL  
 S-104 S-501 SCALE: 3" = 1'-0"



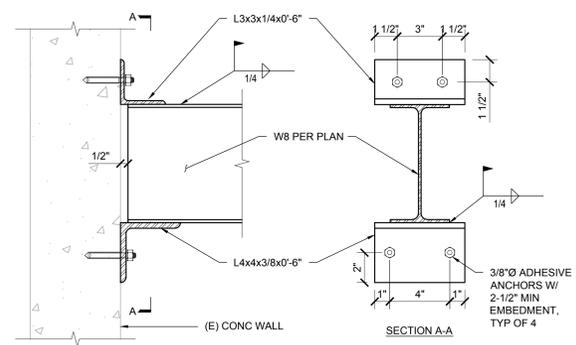
10 DETAIL - PIPE HANGER PLATE  
 S-501 S-501 SCALE: 3" = 1'-0"



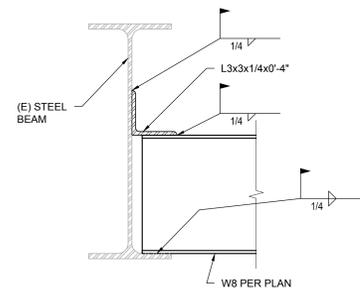
11 DETAIL - TENSION GRID HANGER POINT  
 S-104 S-501 SCALE: 3" = 1'-0"



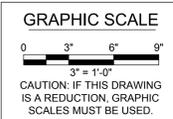
12 DETAIL - PIPE COUPLER PLATE  
 S-101 S-501 SCALE: 3" = 1'-0"



13 DETAIL - CONNECTION TO WALL  
 S-123 S-501 SCALE: 3" = 1'-0"



14 DETAIL - CONNECTION TO BEAM  
 S-101 S-501 SCALE: 3" = 1'-0"



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NAVAL FACILITIES ENGINEERING COMMAND  
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 PUBLIC WORKS DEPARTMENT  
 MARINE CORPS BASE QUANTICO  
 QUANTICO, VA  
**NMVC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID SECTIONS AND DETAILS**

SCALE:	AS NOTED
PROJECT NO.	FWB 2015199
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	3190255
SHEET	10 OF 26
<b>S-501</b>	







### FINISH MATERIALS

#### SCHEDULE NOTATIONS

MATERIAL AND COLOR DESIGNATIONS:  
 MATERIALS AND COLORS ARE NOTED BY ALPHANUMERIC DESIGNATORS CONSISTING OF TWO ELEMENTS. THE FIRST ELEMENT IDENTIFIES THE GENERIC MATERIAL. THE SECOND ELEMENT IDENTIFIES THE SPECIFIC TYPE, SIZE, COLOR AND/OR PATTERN. FOR EXAMPLE, THE DESIGNATOR CFT-1 IS INTERPRETED TO MEAN:  
 CFT = CERAMIC FLOOR TILE  
 -1 = TYPE (REFER TO SPECIFICATIONS SECTION DESCRIBING CERAMIC TILE FOR TYPE AND SIZE) AND COLOR OR PATTERN SELECTION (REFER TO SCHEDULE BELOW)

ELEMENT ONE OF THE DESIGNATOR IS SPECIFIED ELSEWHERE IN THESE SPECIFICATIONS. ELEMENT TWO IS SPECIFIED IN THE SCHEDULE OF COLORS AND FINISHES BELOW.

WHERE SCHEDULED COLOR SELECTIONS INCLUDE A GENERIC COLOR IN PARENTHESES, I.E. F90R24G; 90R24G; 90R24G; 70CFC; G-4778; 808; CF 1497CBEF57CFD; 90R50R; CFA54CB; ONLY, AND IS NOT INTENDED TO REPRESENT A PROPRIETARY COLOR NAME OR DESIGNATION.

MANUFACTURERS: COLOR NOTATIONS CONTAINED HEREIN INCLUDE THE NAME OF THE MANUFACTURER FROM WHOSE STANDARD COLOR CHARTS THE SELECTIONS WERE MADE. WHERE MORE THAN ONE ACCEPTABLE MANUFACTURER HAS BEEN SPECIFIED, EQUIVALENT COLORS OF THE OTHER SPECIFIED MANUFACTURERS WILL BE CONSIDERED UPON SUBMISSION. C. 65ADMG; CF 1495F7-4477H; SLEFC158; CH-OF-A-SH; 57H; P9FCQ; E88SF8; COLORS ARE NOT APPROVED. PROVIDE CUSTOM COLORS TO MATCH THE SELECTED COLORS NOTED HEREIN, AT NO ADDITIONAL COST TO THE OWNER.

CUSTOM COLORS: WHERE SCHEDULED COLOR SELECTIONS HAVE BEEN SELECTED FROM THE 60418A58H; 57H; P9FCQ; BCBG; E88SF8; CF 71; QCA; 70CFC; K; 9F9; BCBG; 6G; 171; QCA; 70CFC; 68F7; 4477H; 4774; 80; 30E884K; 3597C; 71; QCA; 70CFC; B; THE CONTRACT SUM.

#### SCHEDULE OF COLORS AND FINISHES

##### II. INTERIOR FINISHES

###### DIVISION 03

SECTION 03 3000 CAST-IN-PLACE CONCRETE  
 SEALED CONCRETE:  
 SC-1: SMOOTH TROWEL  
 SC-2: BROOM FINISH

###### DIVISION 06

SECTION 06 6400 PLASTIC PANELING  
 FRP-1: CRANE COMPOSITES, COLOR 84 IVORY TO MATCH EXISTING

###### DIVISION 09

SECTION 09 6500 RESILIENT SHEET VINYL FLOORING  
 RF-1: TO MATCH EXISTING, LONSEAL, LONPLATE PATNA, COLOR: 538 EMPIRE SILVER.

SECTION 09 6513 RESILIENT WALL BASE AND ACCESSORIES  
 RESILIENT WALL BASE: JOHNSONITE  
 RB-1: TAS COLONIAL GRAY  
 RB-2: TBI PEPPER CORN  
 RB-3: TAS BEDROCK

TRANSITION STRIPS: TO MATCH ADJACENT RB COLOR

###### SECTION 09 6813 TILE CARPETING

CT-1: TANDUS  
 COLOR: IMPERIAL 45213  
 PATTERN: TENERA 04120  
 INSTALLATION METHOD: UNIDIRECTIONAL

###### SECTION 09 6816 SHEET CARPETING

C-1: ATLAS  
 COLOR: CH 19 NEUTRAL TAUPE  
 PATTERN: CHARLESTON

###### SECTION 09 9123 INTERIOR PAINTING

P-1: GYP PRIMER  
 P-2: BENJAMIN MOORE, 2120-10 JET BLACK, FLAT (EXPOSED CEILING, THEATER)  
 P-3: BENJAMIN MOORE, OC-39 TMD WHITE, EGGSHELL (TYPICAL WALL)  
 P-4: BENJAMIN MOORE, OC-45 SWISS COFFEE, FLAT (TYPICAL CEILING)  
 P-8: BENJAMIN MOORE, 1007 ENGLEWOOD CLIFFS (RAILINGS, FEATURE STAIR)  
 P-9: BENJAMIN MOORE, 2124-30 DEEP SILVER, SEMI GLOSS (NT HM DOORS & FRAMES)

###### DIVISION 10

SECTION 10 1153 VISUAL DISPLAY SYSTEMS  
 ARTWORK SUPPORT RAILS: AL-2, CLEAR ANODIZED ALUMINUM  
 BANNER DISPLAY SYSTEM: AL-2, CLEAR ANODIZED ALUMINUM

###### SECTION 10 2600 WALL AND DOOR PROTECTION

WP-1:  
 MANUFACTURER: KOROGUARD  
 1MM 51 SC-50H  
 FINISH: PUMICE  
 TRM: TO MATCH SHEET FINISH  
 CG-1:  
 FINISH: STAINLESS NO.4 FINISH

### ROOM FINISH TYPES

F-01: PUBLIC SPACES, I.E. CIRCULATION, WITH FINISHES TOO COMPLICATED TO SCHEDULE. INTERIOR FLOOR FINISHES PLANS, REFLECTED CEILING PLANS, \*\*D INTERIOR ELEVATIONS FOR MATERIAL FINISH DESIGNATIONS.

F-02: GALLERY/EXHIBIT SPACE  
 FLOOR: SEALED CONCRETE FLOORING SC-1  
 BASE: NONE  
 WALLS: PATCHED, SANDED, PRIMED P-1  
 CEILING: EXPOSED, PAINTED P-2

F-03: UTILITY SPACES (MECHANICAL, ELECTRICAL, IT, STORAGE, JANITOR CLOSETS ETC)  
 FLOOR: SEALED CONCRETE FLOORING SC-1  
 BASE: RESILIENT WALL BASE RB-1  
 WALLS: PAINTED P-3  
 CEILING: OPEN TO STRUCTURE N/A  
 OTHER: STAINLESS STEEL CORNER GUARD; FIBERGLASS REINFORCED PLASTIC CG-1 (FULL HEIGHT, OUTSIDE CORNERS ONLY); FRP-1 (FULL HEIGHT, JANITOR CLOSETS ONLY)

F-12: OVERLOOK/DECK 2 CORRIDOR  
 FLOOR: CARPET CT-1  
 BASE: RESILIENT WALL BASE RB-3  
 WALLS: PAINT P-3  
 CEILING: EXPOSED P-2  
 OTHER: ARTWORK SUPPORT RAIL AL-2 (WHERE OCCURS)

F-18: UTILITY CORRIDOR  
 FLOOR: SEALED CONCRETE SC-1  
 BASE: RESILIENT WALL BASE RB-2  
 WALLS: PAINT P-3  
 CEILING: EXPOSED, PAINTED P-2  
 OTHER: WALL PROTECTION CORNER GUARDS WP-1 (TO 38" AFF) CG-1 (FULL HEIGHT, OUTSIDE CORNERS)

F-30: MONUMENTAL STAIR  
 FLOOR: SEALED CONCRETE SC-1  
 BASE: NONE  
 WALLS: PATCHED, SANDED, PRIMED P-1  
 CEILING: EXPOSED, PAINTED P-2  
 OTHER: RAILINGS, PAINTED P-8  
 TREAD & LANDING RF-1  
 NOSING RESILIENT

F-31: EXIT STAIR  
 FLOOR: SEALED CONCRETE SC-2  
 BASE: RESILIENT WALL BASE RB-1  
 WALLS: PAINT P-9  
 CEILING: PAINTED, GYP P-4  
 OTHER: RAILINGS, PAINTED P-8

F-32: ACTIVITY AREA/CHILDREN'S GALLERY/HALL OF VALOR  
 FLOOR: SEALED CONCRETE SC-2  
 BASE: NONE N/A  
 WALLS: PAINT P-1 PRIMER  
 CEILING: PAINTED, GYP P-2

F-33: COMBAT ART GALLERY  
 FLOOR: SEALED CONCRETE SC-2  
 BASE: 5" OAK (NIC) N/A  
 WALLS: PAINT P-1 PRIMER  
 CEILING: PAINTED GYP P-2

### FINISH SCHEDULE - FIRST DECK

ROOM NUMBER	ROOM NAME	ROOM FINISH TYPE
FIRST DECK		
102X	ACTIVITY AREA	F-32
111X	EXHIBIT	F-02
117X	ELEC.	F-03
119X	EXHIBIT SPACE	F-02
120X	CORR	F-02
123X	A/V	F-03
125X	CHANGING GALLERY	F-02
152X B	STAIR 04	F-30

### FINISH SCHEDULE - SECOND DECK

ROOM NUMBER	ROOM NAME	ROOM FINISH TYPE
SECOND DECK		
200X	COMBAT ART GALLERY	F-33
201X	CIRCULATION	F-12
209X	A/V	F-03
218X	ELEC.	F-03
246	CIRCULATION	F-01

### GENERAL NOTES

- ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST.", OR "E".
- VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.
- DRAWING INDICATES TYPES OF FINISH FOR EACH SPACE. ANY FINISH DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS SCHEDULED.



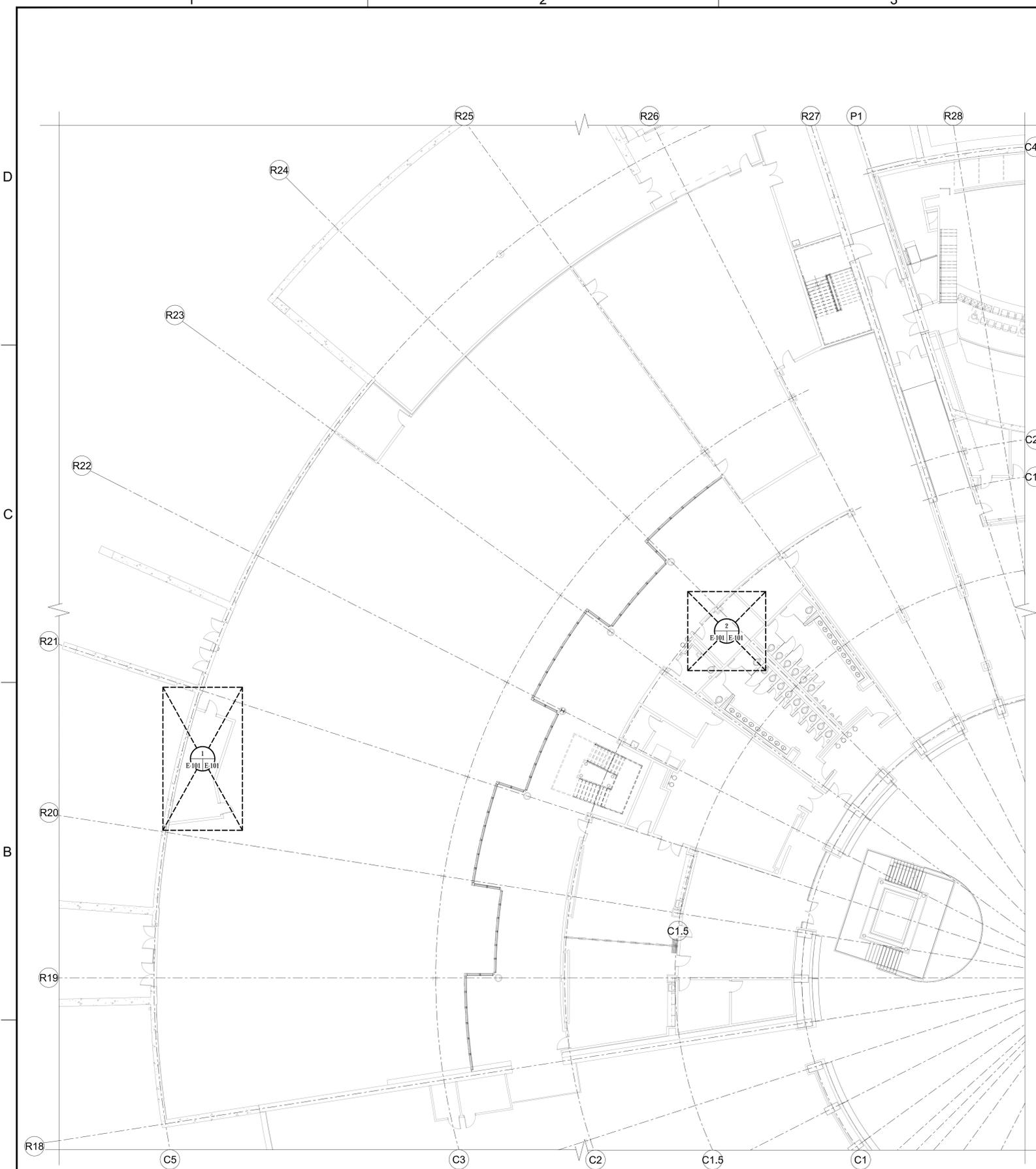
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 ACTIVITY  
 SATISFACTORY TO DATE  
 DES EP DRW EP CRK SJS  
 BRANCH MANAGER  
 CHIEF ENGINEER

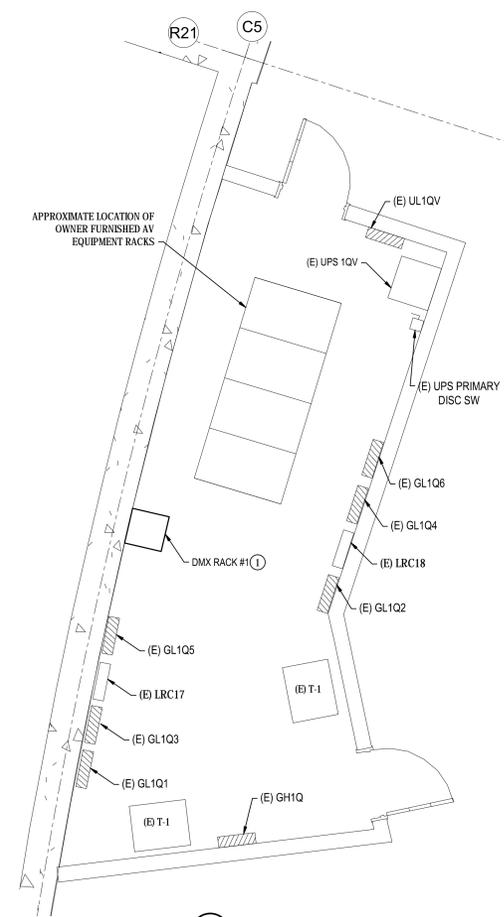
DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
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 PUBLIC WORKS DEPARTMENT  
 NAVAL CORPS BASE QUANTICO  
 QUANTICO, VA  
**NMCC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**  
 ARCHITECTURAL FINISHES

SCALE: AS NOTED  
 PROJECT NO. PWS 2015199  
 CONSTR. CONTR. NO.  
 NAVFAC DRAWING NO. 3190259  
 SHEET 14 OF 26

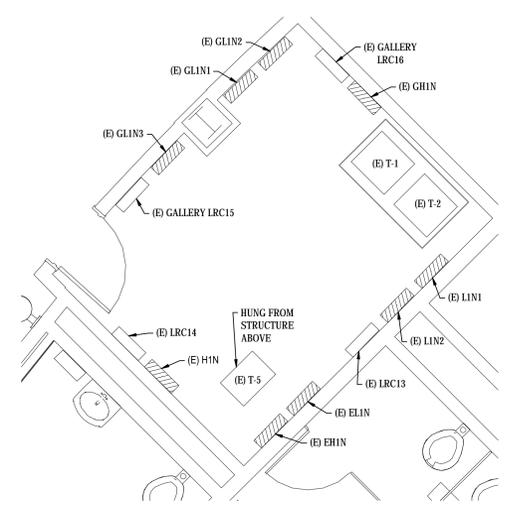




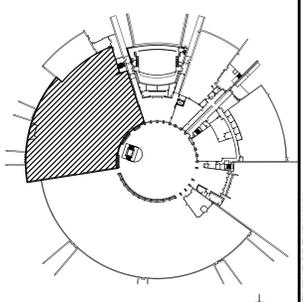
**FIRST FLOOR PLAN**  
SCALE: 3/32"=1'-0"



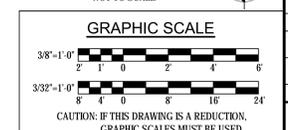
**1**  
**DETAIL 1**  
GALLERY AV ROOM 123X  
SCALE: 3/8"=1'-0"



**2**  
**DETAIL 2**  
ELECTRICAL ROOM 117X  
SCALE: 3/8"=1'-0"



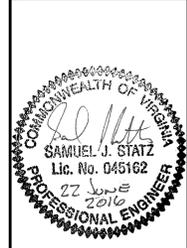
**KEY PLAN**  
NOT TO SCALE



CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALES MUST BE USED.

- GENERAL NOTES**
- ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXST.", OR "IE".
  - VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.
- NOTES**
- PROVIDE DMX EQUIPMENT RACK #1. SEE DETAIL 1/E-101E-001.
  - ELECTRICAL ROOMS ARE CURRENTLY UNDER CONSTRUCTION. VERIFY LOCATION OF EXISTING EQUIPMENT PRIOR TO START OF CONSTRUCTION.

SYMBOL	DESCRIPTION	DATE	APPROVED



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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	EP	DRW	EP	CHK	SJS
-----	----	-----	----	-----	-----

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO  
QUANTICO, VA

**NMCC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**

FIRST FLOOR PLAN

SCALE: AS NOTED

PROJECT NO. PWS 2015199

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 3190261

SHEET 16 OF 26

**E-101**

DRAWING REVISION: 11 MARCH 2009



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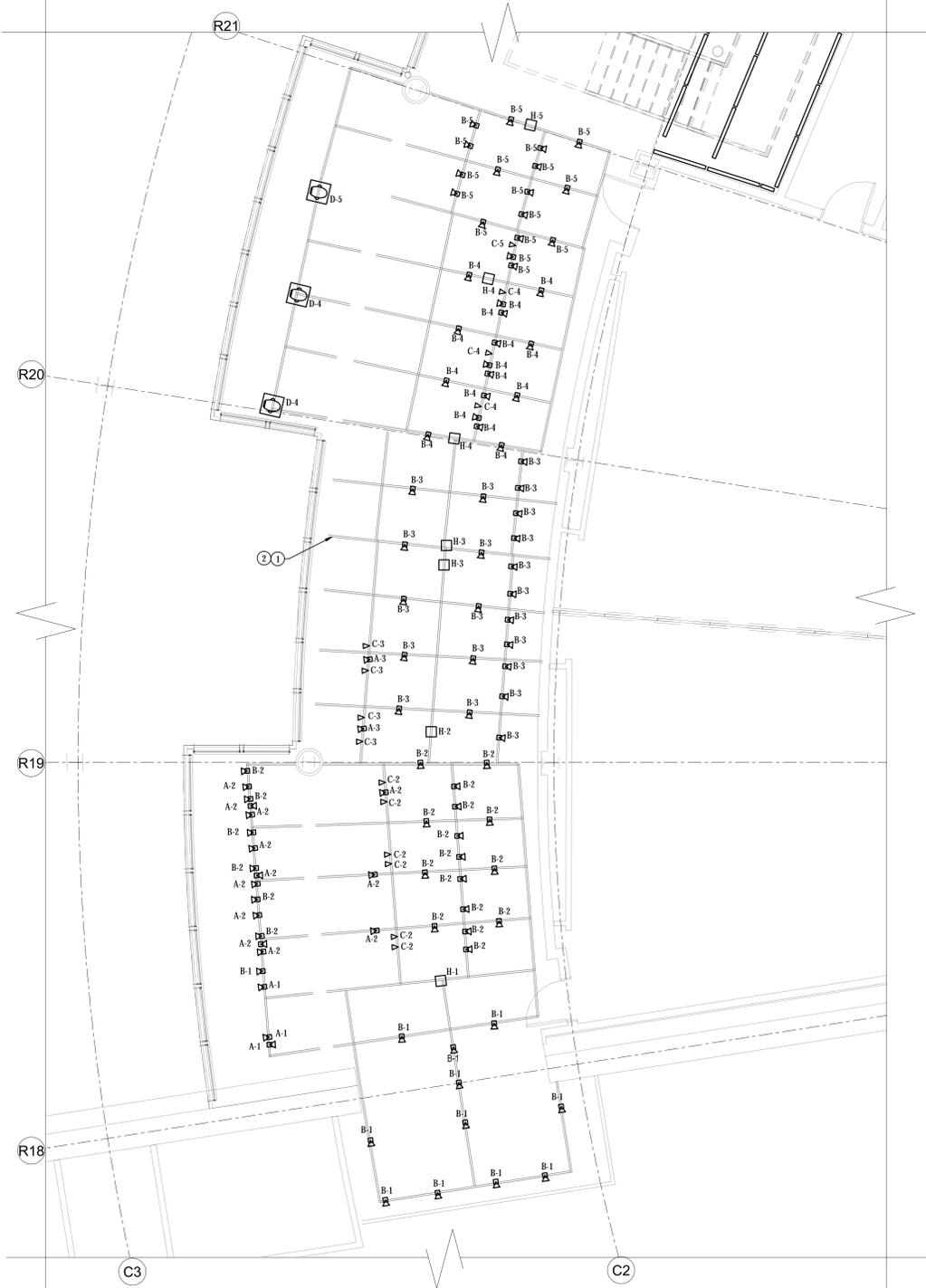
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### GENERAL NOTES

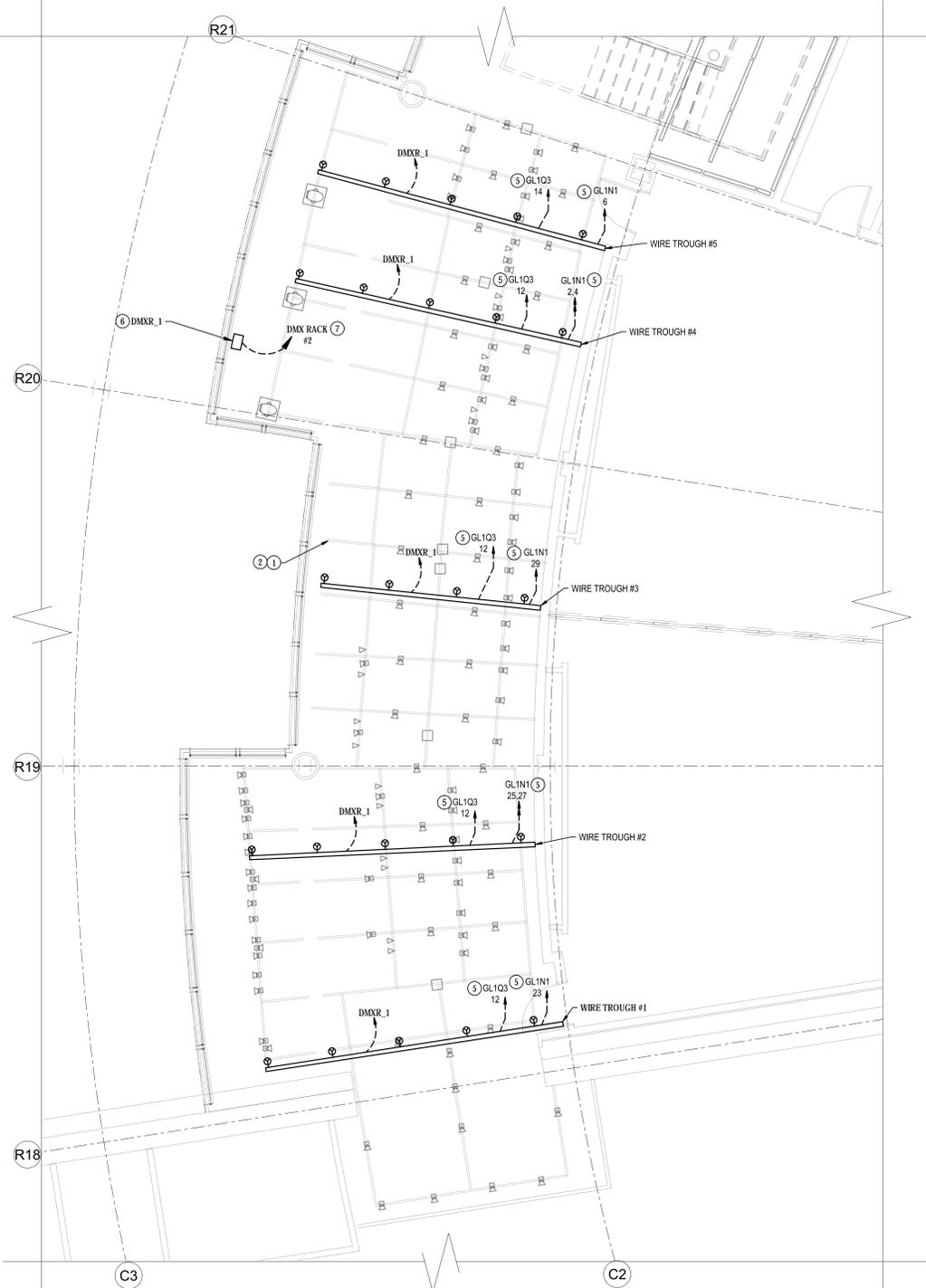
- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXST.", OR "EY".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

### NOTES

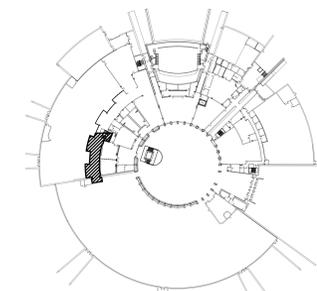
- 1. SUSPENDED LIGHTING GRID AT 17'-0" AFF.
- 2. REPAIR SPRAYED FIRE RESISTIVE CEMENTITIOUS MATERIAL AFFECTED DURING CONSTRUCTION.
- 3. LIGHTING FIXTURE ATTACHED TO THE PIPE GRID SHALL BE ATTACHED USING A CLAMP. CLAMP SHALL HAVE A LOCKING MECHANISM AND INCLUDE SAFETY CABLE TO ATTACH TO THE PIPE GRID.
- 4. PAINT ALL EXPOSED RACEWAYS, PIPES, HANGER ELEMENTS, AND CONDUIT MATTE BLACK.
- 5. MOUNT CONDUIT TYPE TO STRUCTURE OF PIPE GRID.
- 6. MOUNT DMX REPEATER ABOVE PIPE GRID.
- 7. ROUTE DMX CABLE IN 3/4" EMT CONDUIT.



①③ FIRST FLOOR PLAN  
PIPE GRID- LIGHTING  
SCALE: 1/4"=1'-0"



① FIRST FLOOR PLAN  
PIPE GRID- POWER  
SCALE: 1/4"=1'-0"

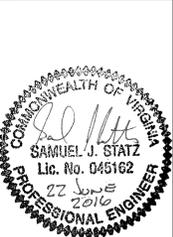


KEY PLAN  
NOT TO SCALE



CAUTION: IF THIS DRAWING IS A REDUCTION,  
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DES EP DRW EP CIRK SJS
BRANCH MANAGER
CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO  
QUANTICO, VA

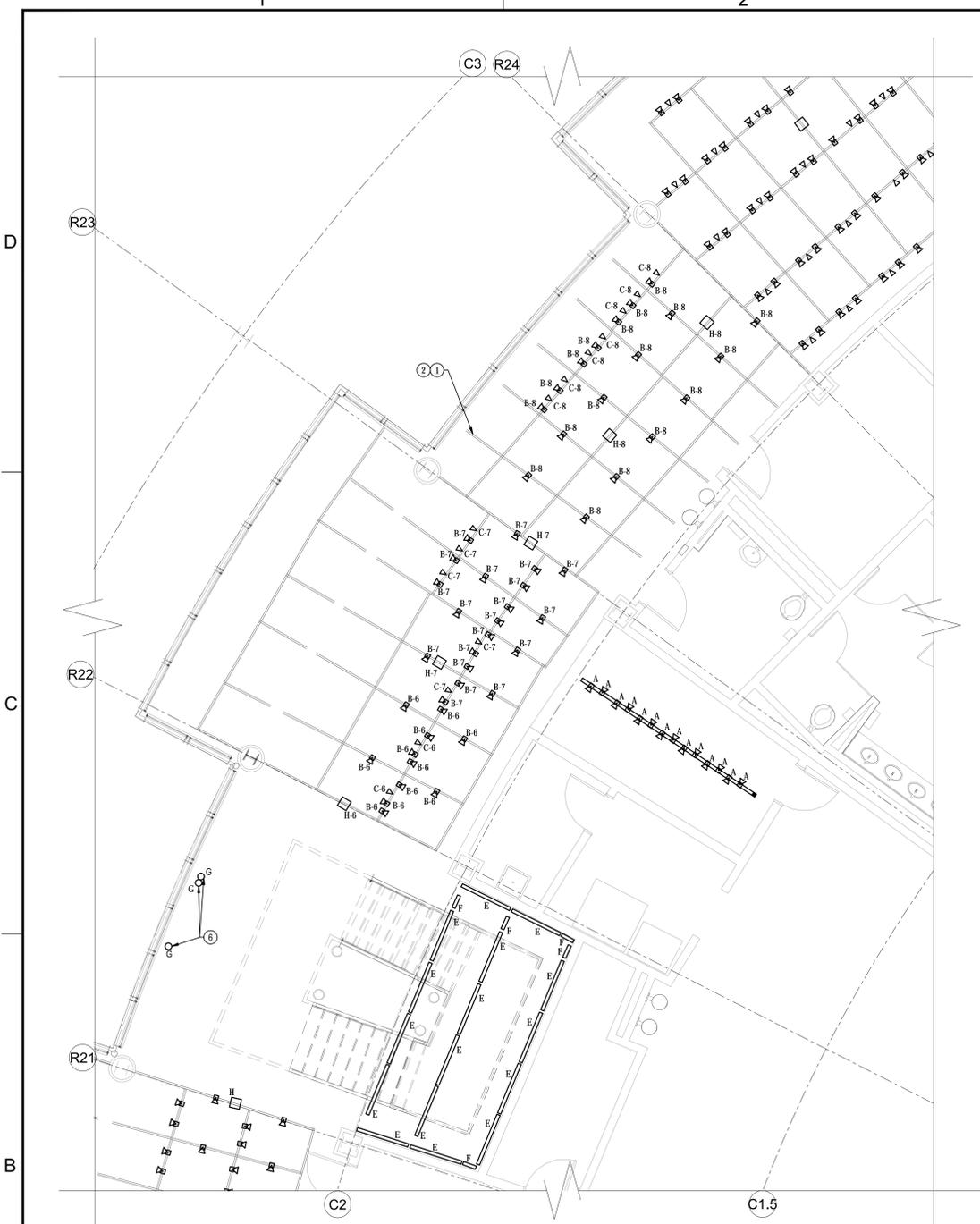
NMNC LIGHTING DISPLAY  
LIGHTING, PIPE GRID AND TENSION GRID  
FIRST FLOOR PLAN- PIPE GRID

SCALE: AS NOTED  
PROJECT NO. PWB 2015199  
CONSTR. CONTR. NO.

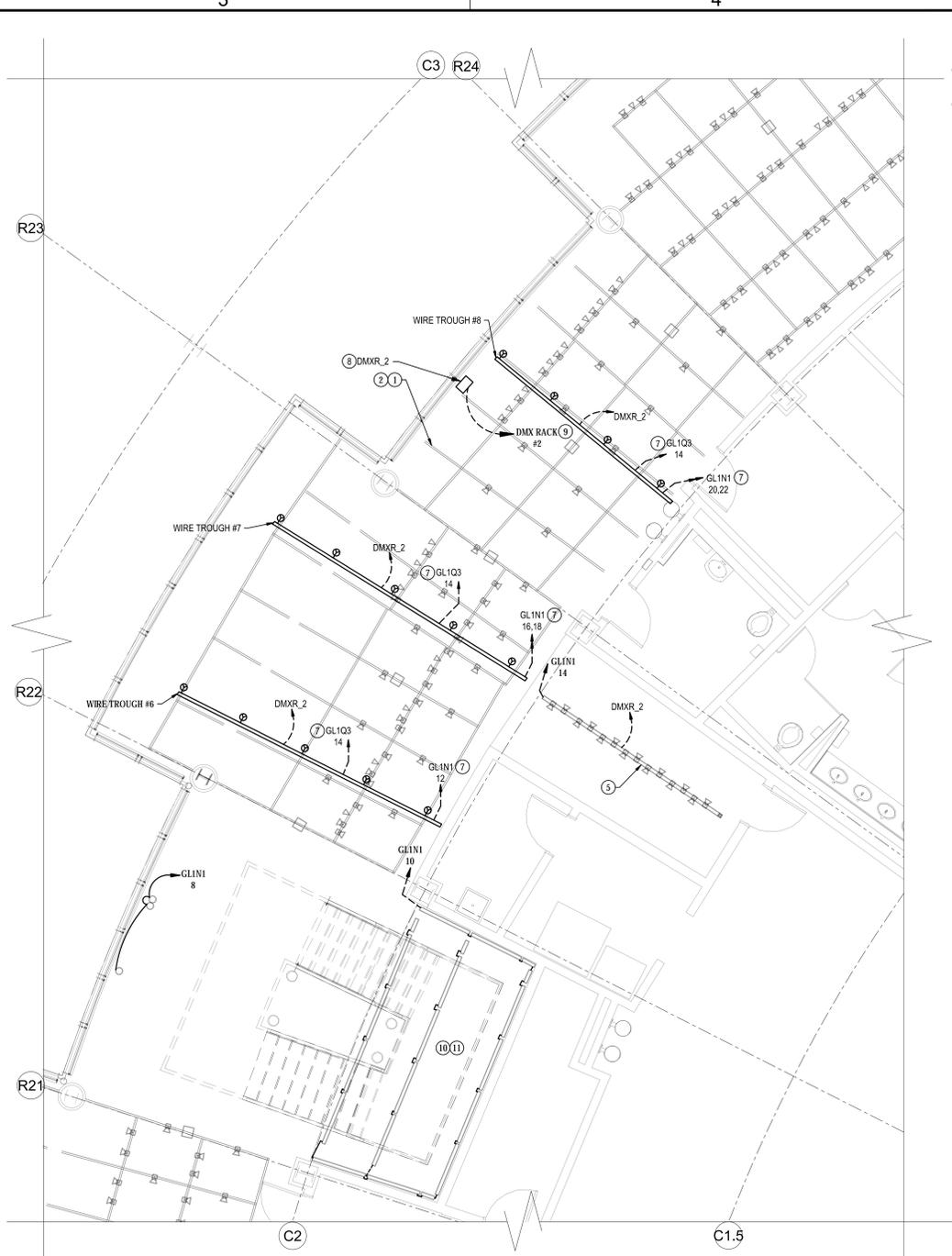
NAVFAC DRAWING NO. 3190263  
SHEET 18 OF 26

E-103

DRAWING REVISION: 13 MARCH 2009



① FIRST FLOOR PLAN  
PIPE GRID-LIGHTING  
SCALE: 1/4"=1'-0"

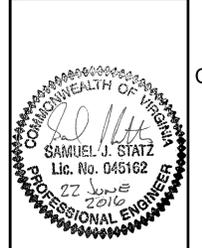


② FIRST FLOOR PLAN  
PIPE GRID-POWER  
SCALE: 1/4"=1'-0"

**GENERAL NOTES**

- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXST.", OR "EY".
  - G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.
- NOTES**
1. SUSPENDED LIGHTING GRID AT 17'-0" AFF.
  2. REPAIR SPRAYED FIRE RESISTIVE CEMENTITIOUS MATERIAL AFFECTED DURING CONSTRUCTION.
  3. LIGHTING FIXTURE ATTACHED TO THE PIPE GRID SHALL BE ATTACHED USING A CLAMP. CLAMP SHALL HAVE A LOCKING MECHANISM AND INCLUDE SAFETY CABLE TO ATTACH TO THE PIPE GRID.
  4. PAINT ALL EXPOSED RACEWAYS, PIPES, HANGER ELEMENTS, AND CONDUIT MATTE BLACK.
  5. PROVIDE CIRCUITING TO DMX TRACK.
  6. LIGHT FIXTURES RECESSED IN SOFFIT CEILING.
  7. MOUNT CONDUIT TYPE TO STRUCTURE OF PIPE GRID.
  8. MOUNT DMX REPEATER ABOVE PIPE GRID.
  9. ROUTE DMX CABLE IN 3/4" EMT CONDUIT.
  10. PROVIDE MINIMAL NOMINAL 1 1/4" X 1 1/4" U CHANNEL SUPPORT TO SPAN BETWEEN BEAMS. ATTACH U CHANNEL TO BEAM. MOUNT LIGHT FIXTURE TO U CHANNEL SUPPORT.
  11. PROVIDE TWO HOLE PIPE STRAPS FOR TIGHT MOUNTING TO SURFACE.

SYMBOL	DESCRIPTION	DATE	APPROVED



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ACTIVITY

SATISFACTORY TO	DATE
DES EP	DRW EP
CHK SJS	

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO  
QUANTICO, VA

NMMC LIGHTING DISPLAY  
LIGHTING, PIPE GRID AND TENSION GRID  
FIRST FLOOR PLAN - PIPE GRID



**KEY PLAN**  
NOT TO SCALE



CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALES MUST BE USED.

SCALE:	AS NOTED
PROJECT NO.	P19 2015199
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	3190264
SHEET	19 OF 26
<b>E-104</b>	





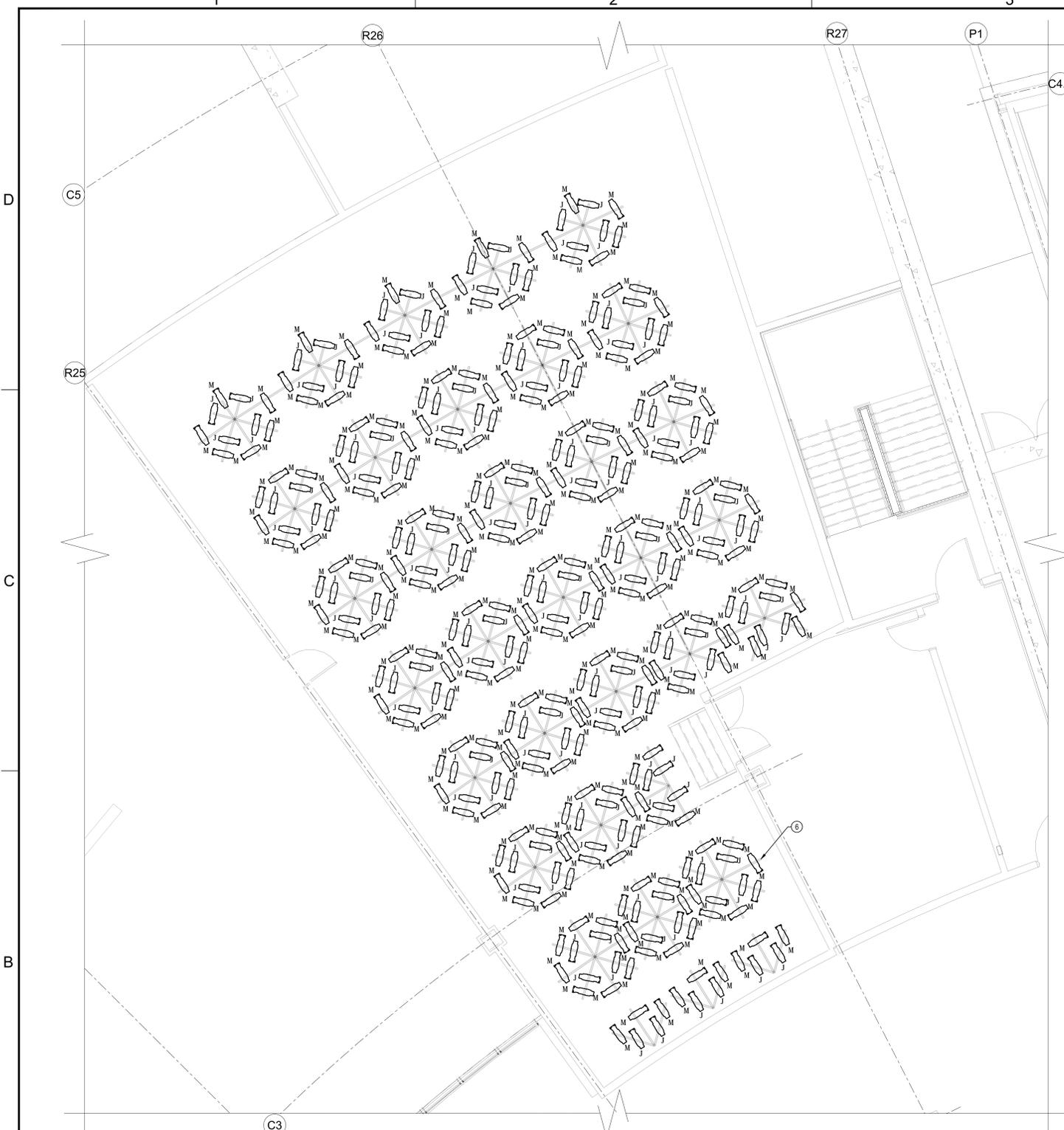
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2

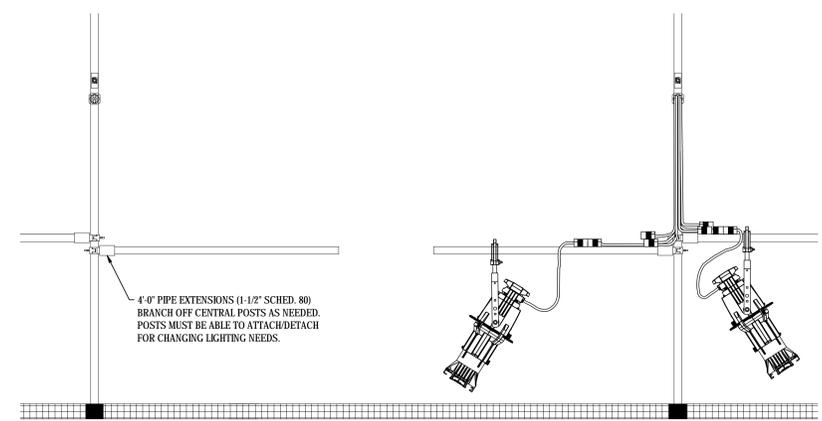
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4

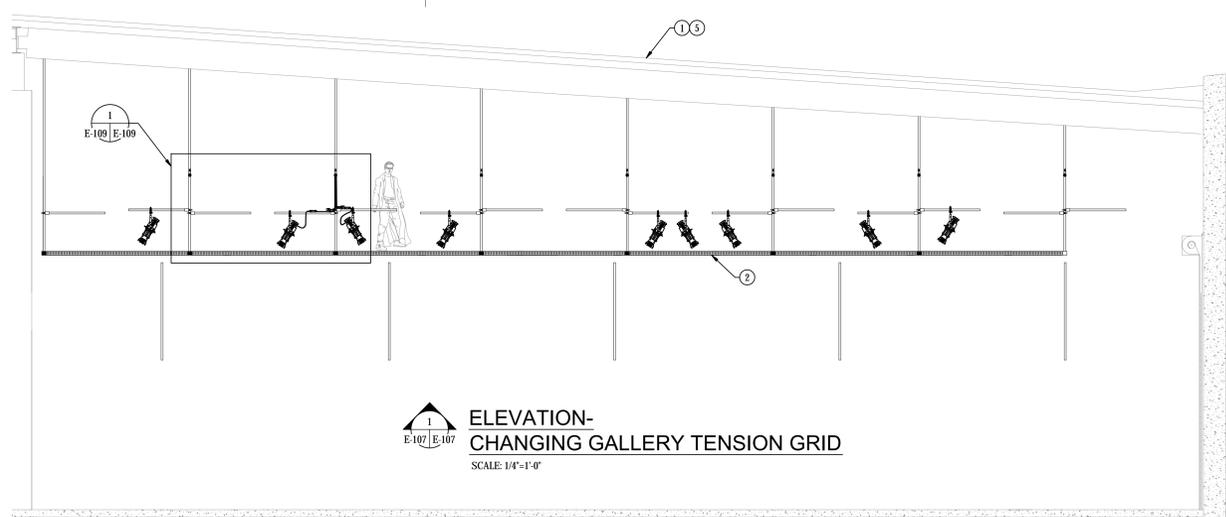
5



**3.1 SECOND FLOOR PLAN  
CHANGING GALLERY- LIGHTING**  
SCALE: 1/4"=1'-0"



**DETAIL-  
CHANGING GALLERY TENSION GRID**  
SCALE: 1"=1'-0"



**ELEVATION-  
CHANGING GALLERY TENSION GRID**  
SCALE: 1/4"=1'-0"

**GENERAL NOTES**

- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXST.", OR "IE".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

**NOTES**

- 1. SLOPE FOR CEILING IN AREA IS 13/16" /12".
- 2. WALKABLE LIGHTING GRID SYSTEM AT 17'-0" AFF.
- 3. ELEVATION VARIES UNIFORMLY. REFER TO S-104 FOR PIPE GRID ELEVATION.
- 4. LIGHTING FIXTURE ATTACHED TO THE PIPE EXTENSIONS SHALL BE ATTACHED USING A CLAMP. CLAMP SHALL HAVE A LOCKING MECHANISM AND INCLUDE SAFETY CABLE TO ATTACH TO THE PIPE EXTENSION.
- 5. ELEVATION DOES NOT DEPICT FINAL LIGHTING FIXTURE LAYOUT.
- 6. PAINT ALL EXPOSED RACEWAYS, PIPES, HANGER ELEMENTS, AND CONDUIT MATTE BLACK.



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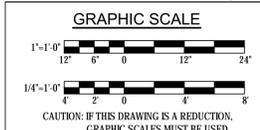
SATISFACTORY TO		DATE	
DES	EP	DRW	EP
EP	EP	EP	SJS
BRANCH MANAGER			
CHIEF ENGINEER			

NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO, VIRGINIA  
QUANTICO, VA

**NMNC LIGHTING DISPLAY  
LIGHTING, PIPE GRID AND TENSION GRID**

SECOND FLOOR PLAN CHANGING GALLERY - LIGHTING

**KEY PLAN**  
NOT TO SCALE



CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALES MUST BE USED.

SCALE:	AS NOTED
PROJECT NO.	PWS 2015199
CONSTR. CONTR. NO.	
NAVAFAC DRAWING NO.	3190267
SHEET	22 OF 26

**E-107**

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5



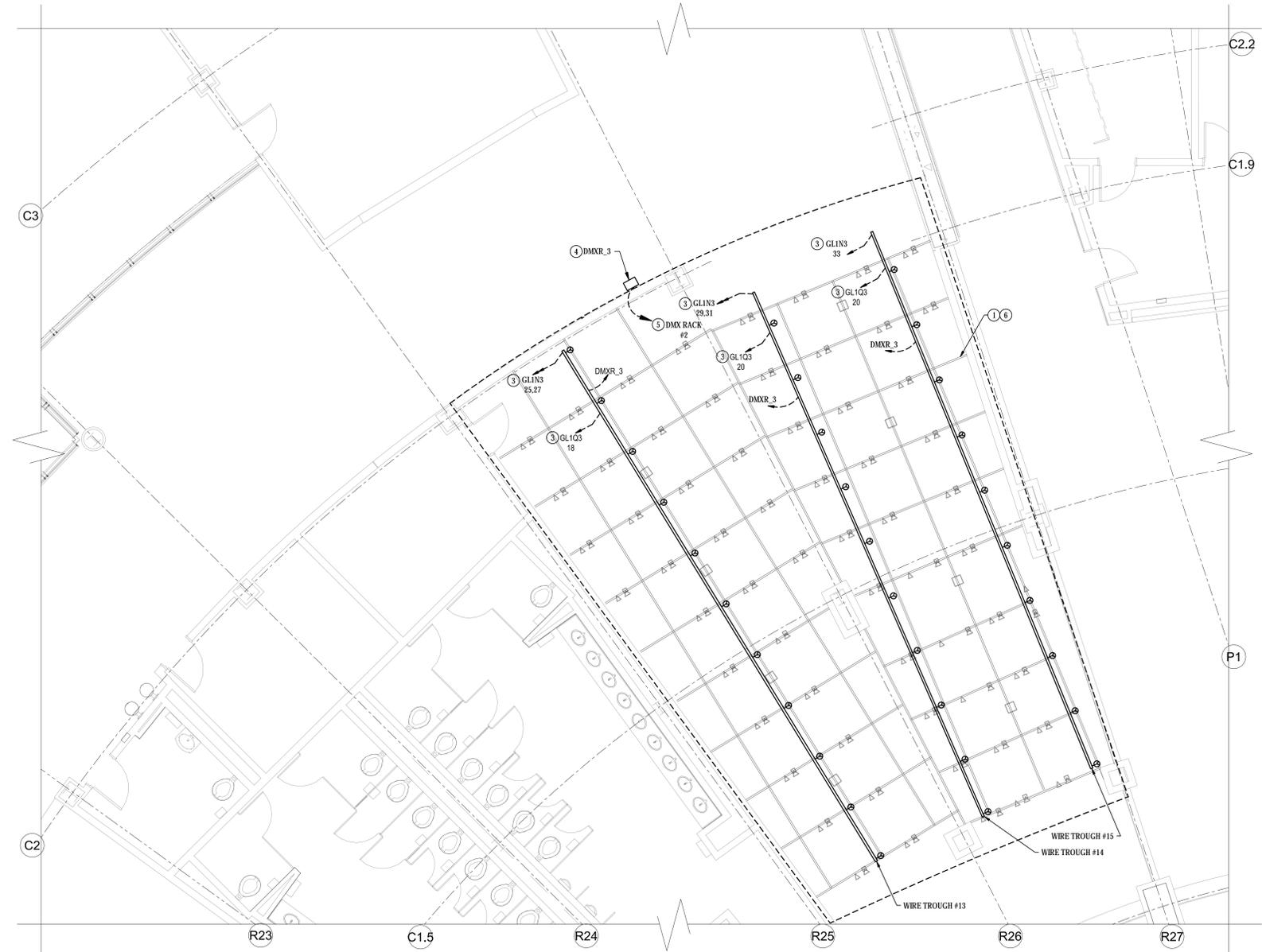


GENERAL NOTES

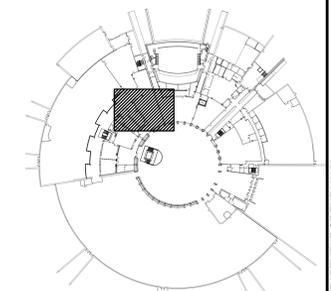
- G1. ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXST.", OR "IE".
- G2. VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.

NOTES

- 1. REPAIR SPRAYED FIRE-RESISTIVE CEMENTITIOUS MATERIAL AFFECTED DURING CONSTRUCTION.
- 2. PAINT ALL EXPOSED RACEWAYS, PIPES, HANGER ELEMENTS, AND CONDUIT MATTE BLACK.
- 3. MOUNT CONDUIT TYPE TO STRUCTURE OF PIPE GRID.
- 4. DMX REPEATER PROVIDED IN BASE BID.
- 5. ROUTE DMX CABLE IN 3/4" EMT CONDUIT.
- 6. SUSPENDED LIGHTING GRID AT 15'-0" AFF.



② FIRST FLOOR PLAN  
 PIPE GRID- POWER- OPTION 1  
 SCALE: 1/4"=1'-0"



KEY PLAN  
 NOT TO SCALE



CAUTION: IF THIS DRAWING IS A REDUCTION, GRAPHIC SCALES MUST BE USED.

SYMBOL	DESCRIPTION	DATE	APPROVED



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ACTIVITY					
SATISFACTORY TO	DATE				
DES	EP	DRW	EP	CHK	SJS
BRANCH MANAGER					
CHIEF ENGINEER					

DEPARTMENT OF THE NAVY  
 NAVAL FACILITIES ENGINEERING COMMAND  
 NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
 PUBLIC WORKS DEPARTMENT  
 MARINE CORPS BASE QUANTICO  
 QUANTICO, VA

**NMNC LIGHTING DISPLAY LIGHTING, PIPE GRID AND TENSION GRID**  
 FIRST FLOOR PLAN PIPE GRID- POWER- OPTION 1

SCALE: AS NOTED  
 PROJECT NO. PWS 2015199  
 CONSTR. CONTR. NO.  
 NAVFAC DRAWING NO. 3190270  
 SHEET 25 OF 26  
**E-111**

**(E) PANEL GL1Q3 SCHEDULE**

120/208 VOLTS, 3Ø, 4W  
150A MAIN CIRCUIT BREAKER  
BOLT-ON BRANCH CIRCUIT BREAKERS

MOUNTING: SURFACE  
LOCATION: AV ROOM 123X  
ENCLOSURE: NEMA 1

DESCRIPTION	CIRCUIT BREAKER FRAME/TRIP/KAC	CIRCUIT BREAKER FRAME/TRIP/KAC	DESCRIPTION
SPARE- OPTION 2	100-20110-1	2 100-20110	SPARE- OPTION 2
SPARE- OPTION 2	100-20110-3	4 100-20110	SPARE- OPTION 2
SPARE- OPTION 2	100-20110-5	6 100-20110	SPARE- OPTION 2
SPARE- OPTION 2	100-20110-7	8 100-20110	SPARE- OPTION 2
SPARE- OPTION 2	100-20110-9	10 100-20110	SPARE- OPTION 2
SPARE- OPTION 2	100-20110-11	12 100-20110	WORK LIGHTS GALLERY 5 (1)
SPARE- OPTION 2	100-20110-13	14 100-20110	WORK LIGHTS GALLERY 5 (1)
SPARE- OPTION 2	100-20110-15	16 100-20110	WORK LIGHTS GALLERY 5 (1)
SPARE- OPTION 2	100-20110-17	18 100-20110	WORK LIGHTS GALLERY 5 (1)
SPARE- OPTION 2	100-20110-19	20 100-20110	WORK LIGHTS GALLERY 5 (1)
SPARE- OPTION 2	100-20110-21	22 100-20110	SPORTS WORK LIGHTS (1)
SPARE- OPTION 2	100-20110-23	24 100-20110	EXHIBIT WT #1 WORK LGT (1)
SPARE- OPTION 2	100-20110-25	26 100-20110	EXHIBIT WT #2 WORK LGT (1)
SPARE- OPTION 2	100-20110-27	28 100-20110	EXHIBIT WT #3 WORK LGT (1)
SPARE- OPTION 2	100-20110-29	30 100-20110	EXHIBIT WT #4 WORK LGT (1)
SPARE	100-20110-31	32 100-20110	EXHIBIT WT #5 WORK LGT (1)
SPARE	100-20110-33	34 100-20110	EXHIBIT WT #6 WORK LGT (1)
SPARE	100-20110-35	36 100-20110	EXHIBIT WT #7 WORK LGT (1)
SPACE ONLY	100-20110-37	38 100-20110	SPACE ONLY
SPACE ONLY	100-20110-39	40 100-20110	SPACE ONLY
SPACE ONLY	100-20110-41	42 100-20110	SPACE ONLY

**(E) PANEL GL2NV1 SCHEDULE**

120/208 VOLTS, 3Ø, 4W  
150A MAIN CIRCUIT BREAKER  
BOLT-ON BRANCH CIRCUIT BREAKERS

MOUNTING: SURFACE  
LOCATION: EQUIP RM 209X  
ENCLOSURE: NEMA 1

DESCRIPTION	CIRCUIT BREAKER FRAME/TRIP/KAC	CIRCUIT BREAKER FRAME/TRIP/KAC	DESCRIPTION
CHANGING GALLERY LGT (1)	100-20110-1	2 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-3	4 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-5	6 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-7	8 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-9	10 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-11	12 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-13	14 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-15	16 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-17	18 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-19	20 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-21	22 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-23	24 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-25	26 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-27	28 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-29	30 100-20110	CHANGING GALLERY LGT (1)
CHANGING GALLERY LGT (1)	100-20110-31	32 100-20110	CHANGING GALLERY LGT (2)
SPACE ONLY	100-20110-33	34 100-20110	SPACE ONLY
CHANGING GALLERY LGT (1)	100-20110-35	36 100-20110	SPACE ONLY
SPACE ONLY	100-20110-37	38 100-20110	SPACE ONLY
SPACE ONLY	100-20110-39	40 100-20110	SPACE ONLY
SPACE ONLY	100-20110-41	42 100-20110	SPACE ONLY

**(E) PANEL GL1N3 SCHEDULE**

120/208 VOLTS, 3Ø, 4W  
150A MAIN CIRCUIT BREAKER  
BOLT-ON BRANCH CIRCUIT BREAKERS

MOUNTING: SURFACE  
LOCATION: ELEC RM 117X  
ENCLOSURE: NEMA 1

DESCRIPTION	CIRCUIT BREAKER FRAME/TRIP/KAC	CIRCUIT BREAKER FRAME/TRIP/KAC	DESCRIPTION
CHILDRENS GALLERY LTG	100-20110-1	2 100-20110	WIRE TROUGH #10 (1)
CHILDRENS GALLERY LTG	100-20110-3	4 100-20110	WIRE TROUGH #11 (1)
CHILDRENS GALLERY LTG	100-20110-5	6 100-20110	WIRE TROUGH #11 (1)
CHILDRENS GALLERY LTG	100-20110-7	8 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-9	10 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-11	12 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-13	14 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-15	16 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-17	18 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-19	20 100-20110	SPACE
CHILDRENS GALLERY LTG	100-20110-21	22 100-20110	SPACE
WIRE TROUGH #12 (1)	100-20110-23	24 100-20110	SPACE
WIRE TROUGH #13 (1)	100-20110-25	26 100-20110	SPACE
WIRE TROUGH #13 (1)	100-20110-27	28 100-20110	SPACE
WIRE TROUGH #14 (1)	100-20110-29	30 100-20110	SPACE
WIRE TROUGH #14 (1)	100-20110-31	32 100-20110	SPACE
WIRE TROUGH #15 (1)	100-20110-33	34 100-20110	SPACE
WIRE TROUGH #10 (1)	100-20110-35	36 100-20110	SPACE
SPACE ONLY	100-20110-37	38 100-20110	SPACE ONLY
SPACE ONLY	100-20110-39	40 100-20110	SPACE ONLY
SPACE ONLY	100-20110-41	42 100-20110	SPACE ONLY

- GENERAL NOTES**
- ALL WORK SHALL BE NEW AND PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY MARKED "EXISTING", "EXIST.", OR "IE".
  - VERIFY LOCATION AND DIMENSIONS OF EXISTING EQUIPMENT AND COORDINATE ALL WORK PRIOR TO THE START OF CONSTRUCTION.
- NOTES**
- CONNECT TO SPARE CIRCUIT BREAKER AND LABEL AS NOTED.
  - PROVIDE CIRCUIT BREAKER IN EXISTING SPACE AND LABEL AS NOTED.

**(E) PANEL GL2NV2 SCHEDULE**

120/208 VOLTS, 3Ø, 4W  
100A MAIN CIRCUIT BREAKER  
BOLT-ON BRANCH CIRCUIT BREAKERS

MOUNTING: SURFACE  
LOCATION: EQUIP RM 209X  
ENCLOSURE: NEMA 1

DESCRIPTION	CIRCUIT BREAKER FRAME/TRIP/KAC	CIRCUIT BREAKER FRAME/TRIP/KAC	DESCRIPTION
CHANGING GALLERY LGT (1)	100-20110-1	2 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-3	4 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-5	6 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-7	8 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-9	10 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-11	12 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-13	14 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-15	16 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-17	18 100-20110	SPACE
CHANGING GALLERY LGT (1)	100-20110-19	20 100-20110	SPACE
SPACE	100-20110-21	22 100-20110	SPACE
SPACE	100-20110-23	24 100-20110	SPACE
SPACE	100-20110-25	26 100-20110	SPACE
SPACE	100-20110-27	28 100-20110	SPACE
SPACE	100-20110-29	30 100-20110	SPACE
SPACE	100-20110-31	32 100-20110	SPACE
SPACE	100-20110-33	34 100-20110	SPACE
SPACE	100-20110-35	36 100-20110	SPACE
SPACE ONLY	100-20110-37	38 100-20110	SPACE ONLY
SPACE ONLY	100-20110-39	40 100-20110	SPACE ONLY
SPACE ONLY	100-20110-41	42 100-20110	SPACE ONLY

**(E) PANEL GL1N1 SCHEDULE**

120/208 VOLTS, 3Ø, 4W  
400A MAIN CIRCUIT BREAKER  
BOLT-ON BRANCH CIRCUIT BREAKERS

MOUNTING: SURFACE  
LOCATION: ELEC RM 117X  
ENCLOSURE: NEMA 1

DESCRIPTION	CIRCUIT BREAKER FRAME/TRIP/KAC	CIRCUIT BREAKER FRAME/TRIP/KAC	DESCRIPTION
TRACK-102X (LRC)	100-20110-1	2 100-20110	WIRE TROUGH #4 (1)
TRACK-102X (LRC)	100-20110-3	4 100-20110	WIRE TROUGH #4 (1)
TRACK-102X (LRC)	100-20110-5	6 100-20110	WIRE TROUGH #5 (1)
TRACK-102X (LRC)	100-20110-7	8 100-20110	STAIRWELL LIGHTING (1)
TRACK-102X (LRC)	100-20110-9	10 100-20110	STAIRWELL LIGHTING (1)
J-BOX IN 102X (LRC)	100-20110-11	12 100-20110	WIRE TROUGH #6 (1)
J-BOX IN 102X (LRC)	100-20110-13	14 100-20110	HALLWAY LIGHTING (1)
J-BOX IN 102X (LRC)	100-20110-15	16 100-20110	WIRE TROUGH #7 (1)
J-BOX IN 102X (LRC)	100-20110-17	18 100-20110	WIRE TROUGH #7 (1)
J-BOX IN 102X (LRC)	100-20110-19	20 100-20110	WIRE TROUGH #8 (1)
J-BOX IN 102X (LRC)	100-20110-21	22 100-20110	WIRE TROUGH #8 (1)
WIRE TROUGH #1 (1)	100-20110-23	24 100-20110	WIRE TROUGH #9 (1)
WIRE TROUGH #2 (1)	100-20110-25	26 100-20110	WIRE TROUGH #9 (1)
WIRE TROUGH #2 (1)	100-20110-27	28 100-20110	SPACE
WIRE TROUGH #3 (1)	100-20110-29	30 100-20110	SPACE
SPACE ONLY	100-20110-31	32 100-20110	SPACE ONLY
SPACE ONLY	100-20110-33	34 100-20110	SPACE ONLY
SPACE ONLY	100-20110-35	36 100-20110	SPACE ONLY
SPACE ONLY	100-20110-37	38 100-20110	SPACE ONLY
SPACE ONLY	100-20110-39	40 100-20110	SPACE ONLY
SPACE ONLY	100-20110-41	42 100-20110	SPACE ONLY

**LIGHTING FIXTURE SCHEDULE**

TYPE	LAMPS	VOLTAGE	DESCRIPTION/MOUNTING	WEIGHT
A	INCL (LED)	120V	MIRO CUBE WNC/TRACK MOUNTED	2.4 LBS
B	INCL (LED)	120V	MIRO CUBE 4C/TRACK MOUNTED	2.1 LBS
C	INCL (LED)	120V	LR38 VN5P LED LAMP, THEMED ARCHITECTURAL LIGHTING SPOT/FLOODLIGHT SERIES	9.6 OZS
D	INCL (LED)	120V	AYRTON WILDBEAM-R AUTOMATED LUMINAIRE-SUSPENDED	19.2 LBS
E	INCL (LED)	120V	FW GRAZE MK POWERCORE/CEILING MOUNTED	9.5 LBS
F	INCL (LED)	120V	FW GRAZE MK POWERCORE/CEILING MOUNTED	9.5 LBS
G	INCL (LED)	120V	UAT IC BOX SMART 115 A LED 0-10V 500MA, SMART LOTS 115 ADJUSTABLE LED C/ RECESSED	0.95 LBS
H	INCL (LED)	120V	RAYMAX LED HIGH BAY PENDANTS BLU/ PENDANT	NA
M	INCL (LED)	120V	SOURCE FOUR LED TUNGSTEN WITH SHUTTER BARREL BLACK/ PIPE GRID MOUNTED	18.3 LBS
J	INCL (LED)	120V	SOURCE FOUR LED LUSTR- WITH SHUTTER BARREL BLACK/ PIPE GRID MOUNTED	18.3 LBS

APPR DATE SYM DESCRIPTION SYM




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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES EP DRW EP CTR SJS

BRANCH MANAGER

CHIEF ENGINEER

DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
NAVAL FACILITIES ENGINEERING COMMAND - WASHINGTON  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE QUANTICO  
QUANTICO, VA

NMNC LIGHTING DISPLAY  
LIGHTING, PIPE GRID AND TENSION GRID

PANEL SCHEDULES

SCALE: AS NOTED  
PROJECT NO. PWS 2015199  
CONSTR. CONTR. NO.  
NAVFAC DRAWING NO. 3190271  
SHEET 26 OF 26

E-501

DRAWING REVISION: 11 MARCH 2009