

**GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES**

**MAJOR RENOVATION & MODERNIZATION
OF
FIRE AND EMERGENCY MEDICAL SERVICES DEPARTMENT
ENGINE HOUSE NO. 14**

Solicitation No.: DCAM-14-CS-0061

**Addendum No. 2
Issued: October 22, 2013**

This Addendum No. 2 is issued and hereby published on the DGS website on October 22, 2013. Except as modified hereby, the Request for Proposals (“RFP”) remains unmodified.

Item #1 Drawings

Engine House No. 14

The following Drawings have been revised under this Addendum (See Attached):

- A-102
- A-104
- A-301
- A-310
- A-312
- A-400
- A-504
- A-512
- A-601
- A-621
- S0-1
- S1.0
- S2.0
- S3.0
- M-101
- P1-01
- FP-101
- E-001
- ED-102
- E-102
- E-103
- E-601
- E-602
- FA-101
- FA-501

Drawing C2.01 Demolition Plan

The Scope of Work shall include identifying the location and removal of the existing underground Oil Water Separator tank.

Temporary Facility

The following Drawings have been revised under this Addendum (See Attached):

- C-201
- C-302
- G-003
- LS-101
- A-101
- M-101
- P-001
- P-101
- FP-101
- E-001
- E-101
- E-102
- FA-101

Item #2 Specifications

The following Specifications have been revised under this Addendum (See Attached):

- Table of Contents - Revised
- 072500- Weather Barriers - Section replaced in its entirety.
- 072700- Fluid Applied Weather Barriers - New Section
- 099600- High-Performance Coatings - Revised Section
- 105113- Metal Lockers - Revised Section
- 262726- Wiring Devices - Revised Section

Item #3 E.5.5 Key Personnel

Delete

Proposals should identify, at a minimum: (i) the Project Executive; (ii) the Field Superintendent (iii) the Project Manager (iv) and a safety manager responsible for the Project.

Insert

Proposals should identify, at a minimum: (i) the Project Executive; (ii) the Field Superintendent; (iii) the Project Manager; (iv) a Safety Manager; (v) and a Scheduler responsible for the Project.

By: 

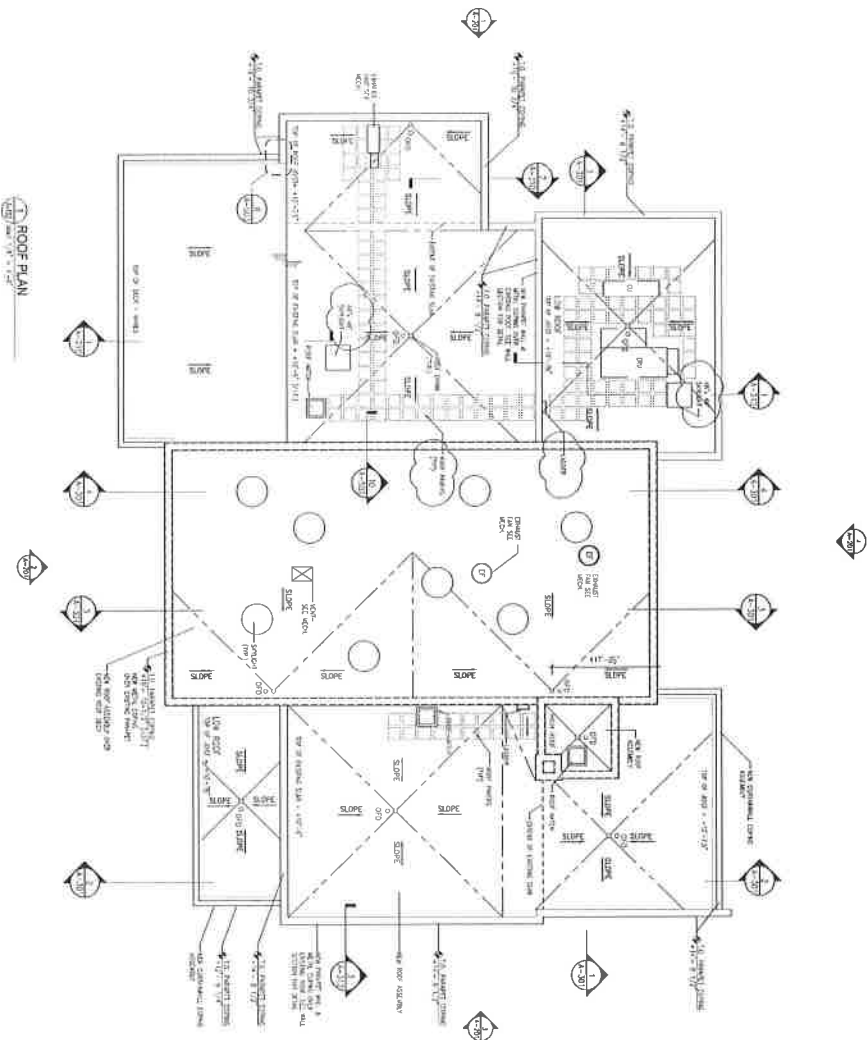
JW Erdum

Associate Director/Contracting Officer

Date: 10/21/13

ARCHITECTURAL
DRAWINGS

ENGINE HOUSE NO. 14



ROOF PLAN

GENERAL NOTES

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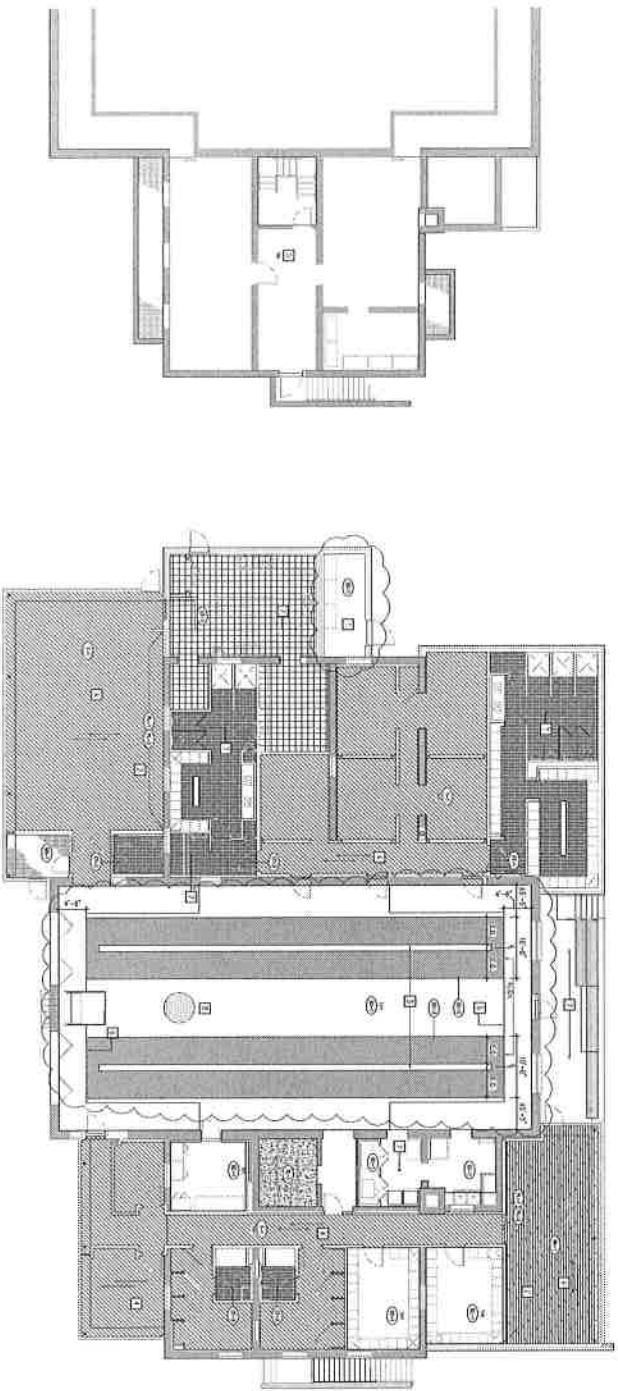


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GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF CAPITAL SERVICES

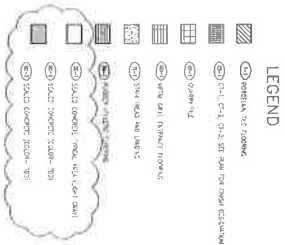
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A-102



1 FLOOR PATTERN AND FINISH PLAN-BASEMENT

2 FLOOR PATTERN AND FINISH PLAN



GENERAL NOTES

1. BASEMENT FLOOR FINISHES TO BE IDENTICAL TO ABOVE.
2. SEE NOTES REGARDING FLOOR FINISHES AND MATERIALS TO BE USED IN THE BASEMENT.
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KEY NOTES

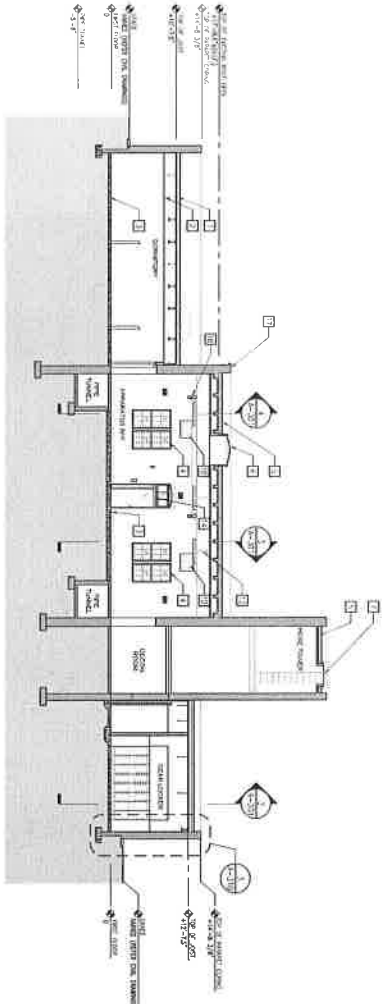
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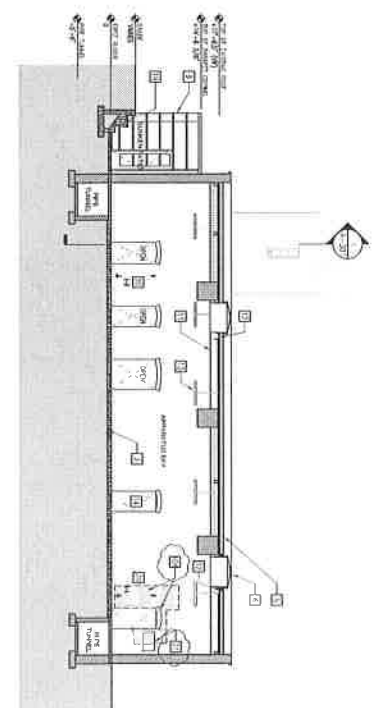
SONG ARCHITECTS
 ARCHITECTS
 480 NORTH CAPITOL ST. N.E.
 WASHINGTON, DC 20003
 P: 202.546.8445
 F: 202.546.8445
 WWW.SONGARCHITECTS.COM

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF GENERAL SERVICES
 ARCHITECTURAL
 A-104

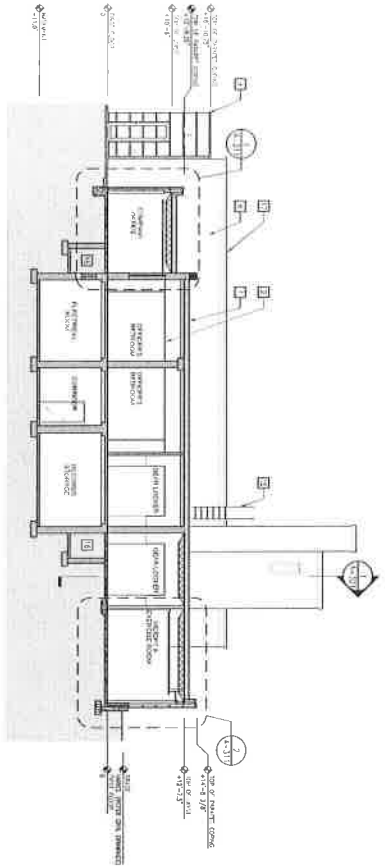




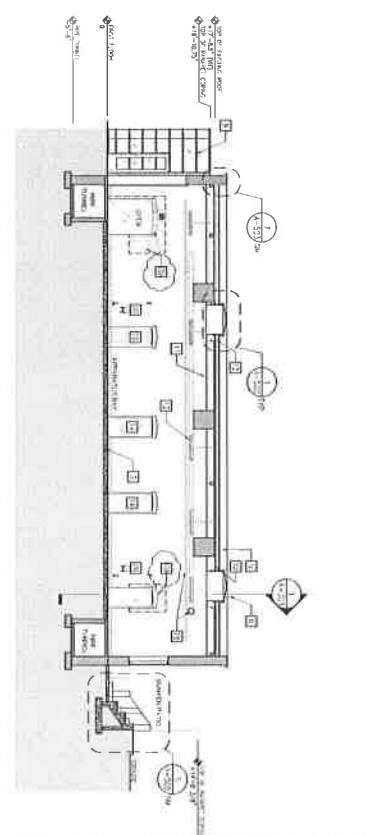
LONGITUDINAL SECTION



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APPARATUS BAY SECTION

KEY PLAN

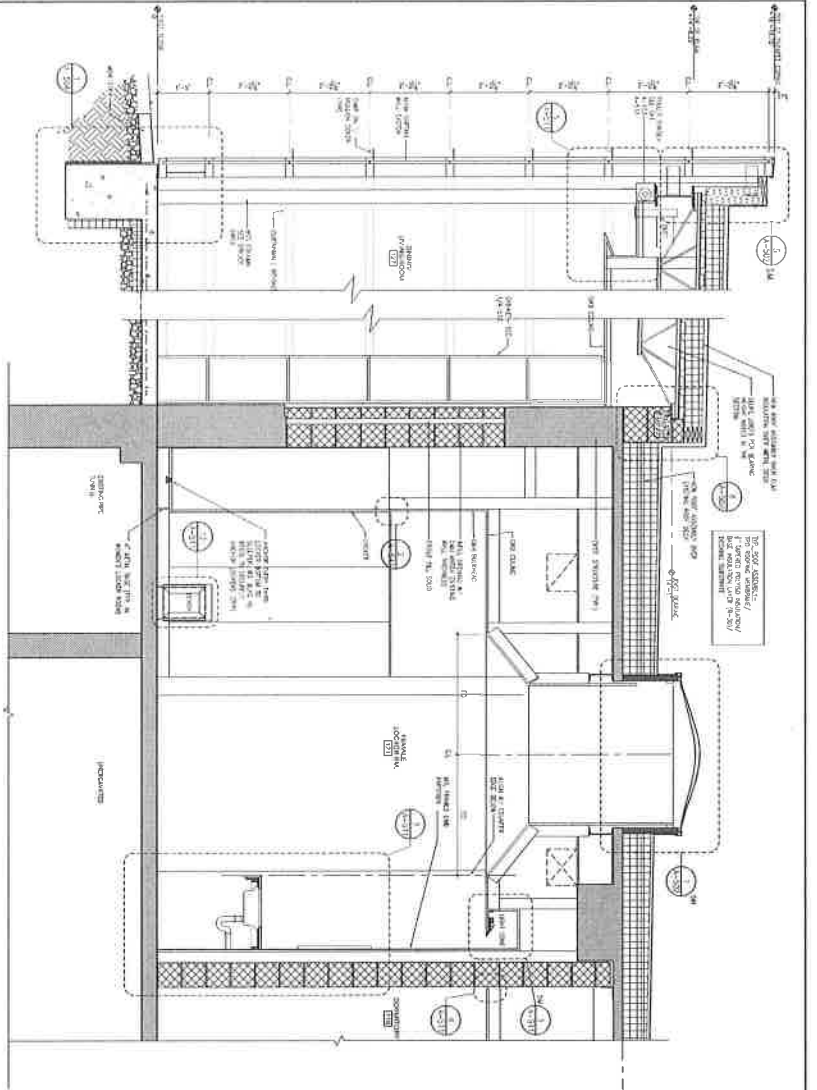
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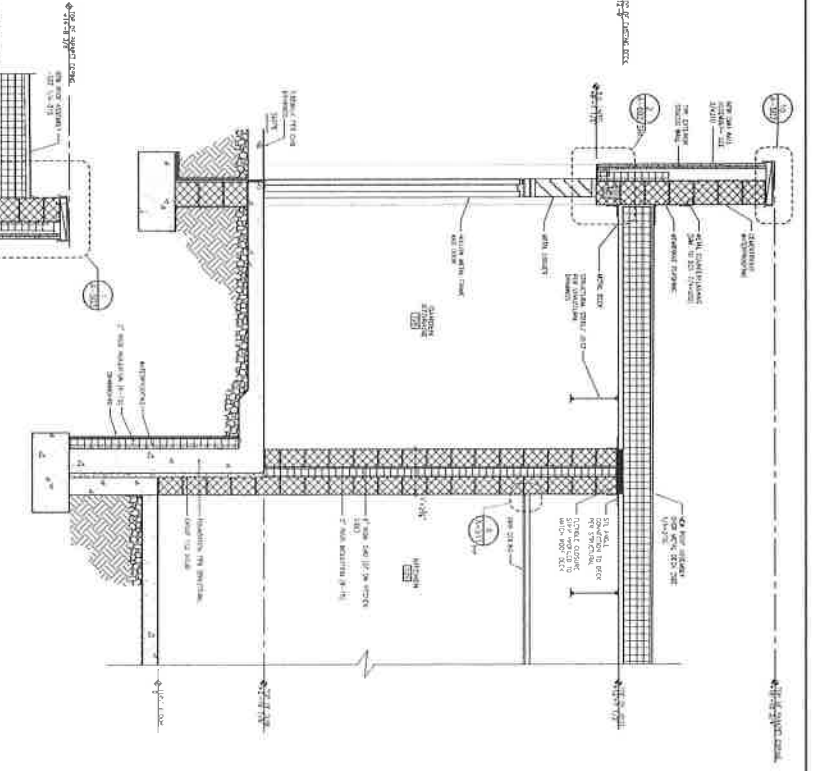
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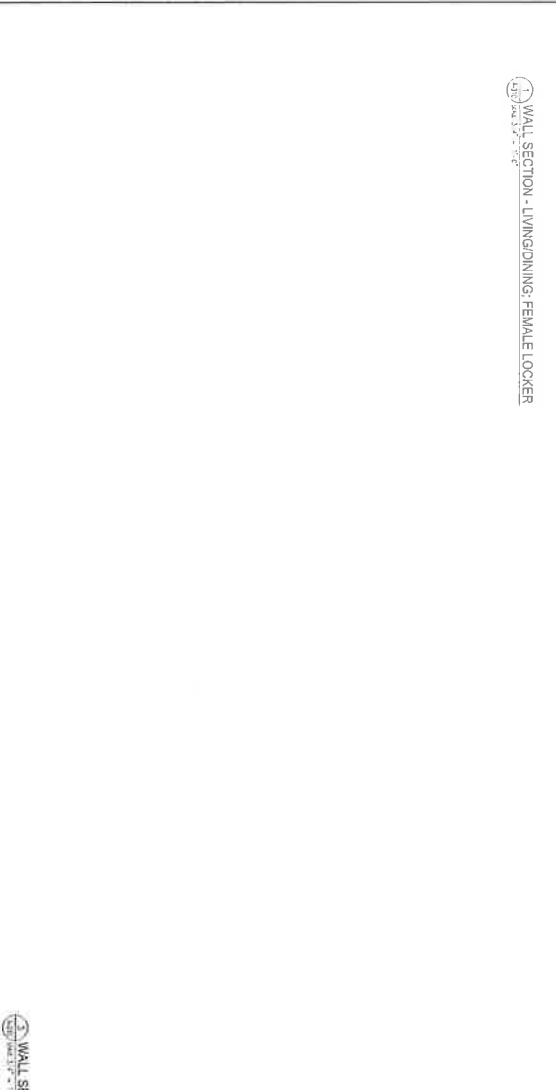
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CLIENT	GOVERNMENT OF THE DISTRICT OF COLUMBIA	ARCHITECT	SONG ARCHITECTS
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DATE	1/1/13	PROJECT NAME	MODERNIZATION OF TEAMS ENGINE HOUSE 14
SCALE	1/8" = 1'-0"	ARCHITECT	SONG ARCHITECTS
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DATE	1/1/13	ARCHITECT	SONG ARCHITECTS



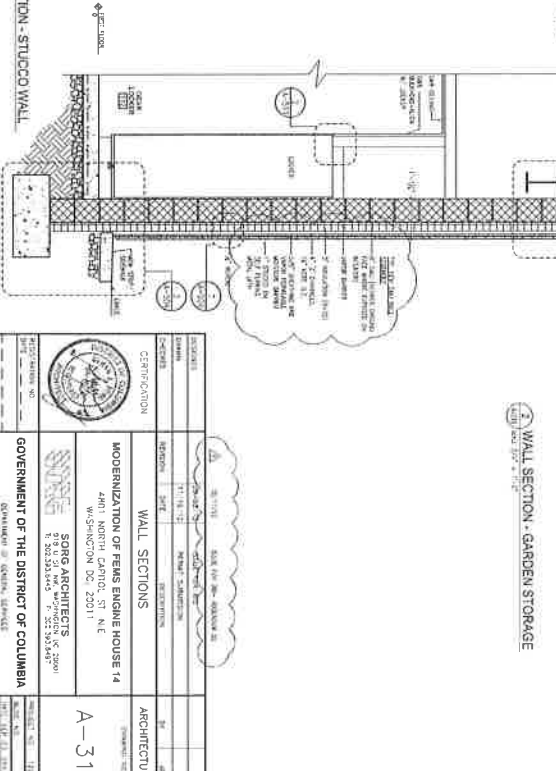
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2 WALL SECTION - GARDEN STORAGE



3 WALL SECTION - STUDIO WALL



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PROFESSIONAL SEAL

NO. 123456789

DATE: 01/15/2018

PROJECT: MODERNIZATION OF PEARS ENGINE HOUSE 14

LOCATION: 2401 WASHINGTON DC 20011

SCALE: AS SHOWN

GOVERNMENT OF THE DISTRICT OF COLUMBIA

DEPARTMENT OF GENERAL SERVICES

SOBRI ARCHITECTS P.C.

1500 M STREET, N.E.

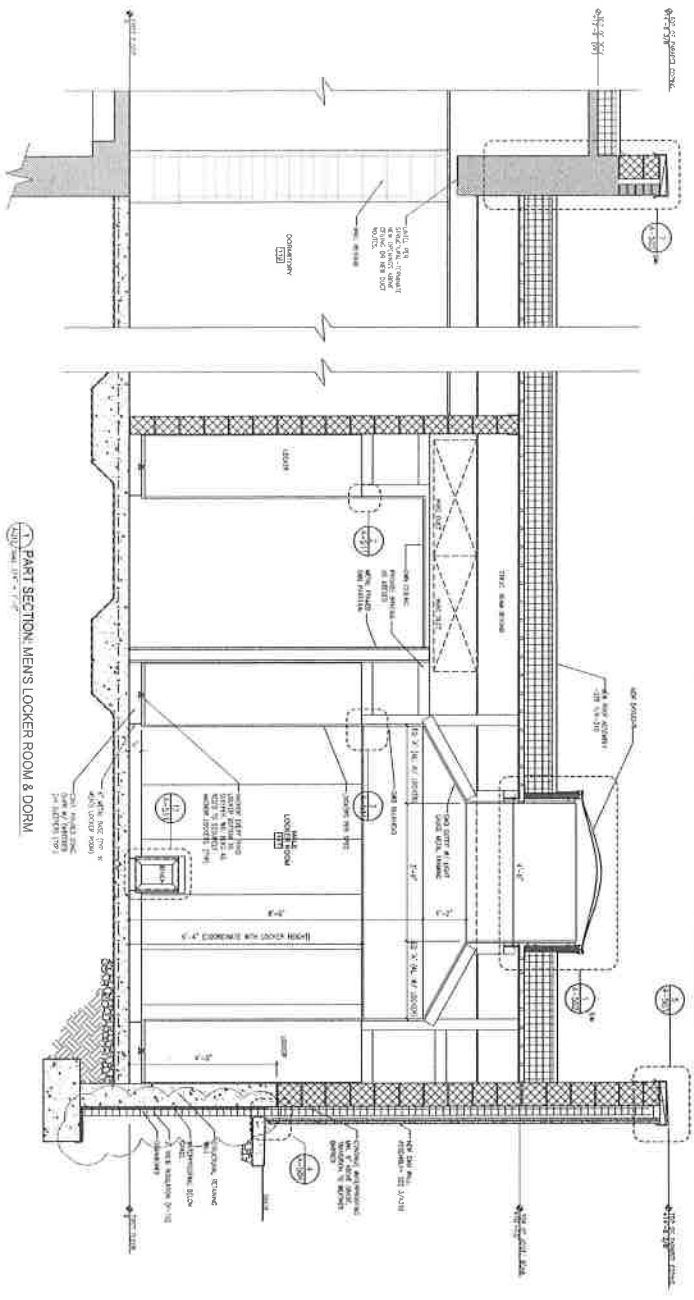
WASHINGTON, DC 20002

TEL: 202-555-5555

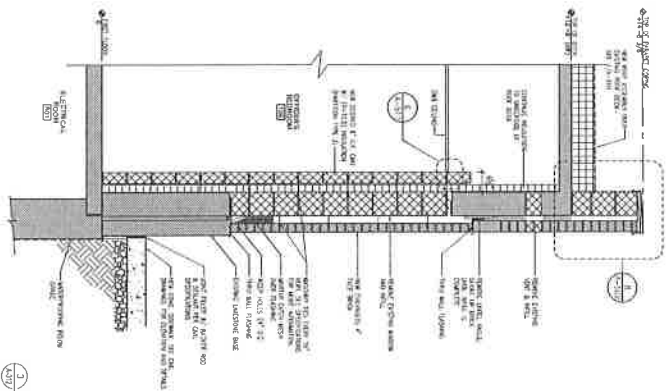
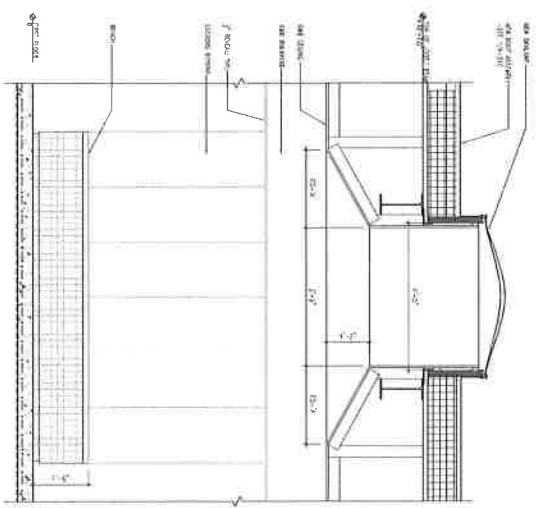
FAX: 202-555-5555

WWW.SOBRIARCHITECTS.COM

A-310

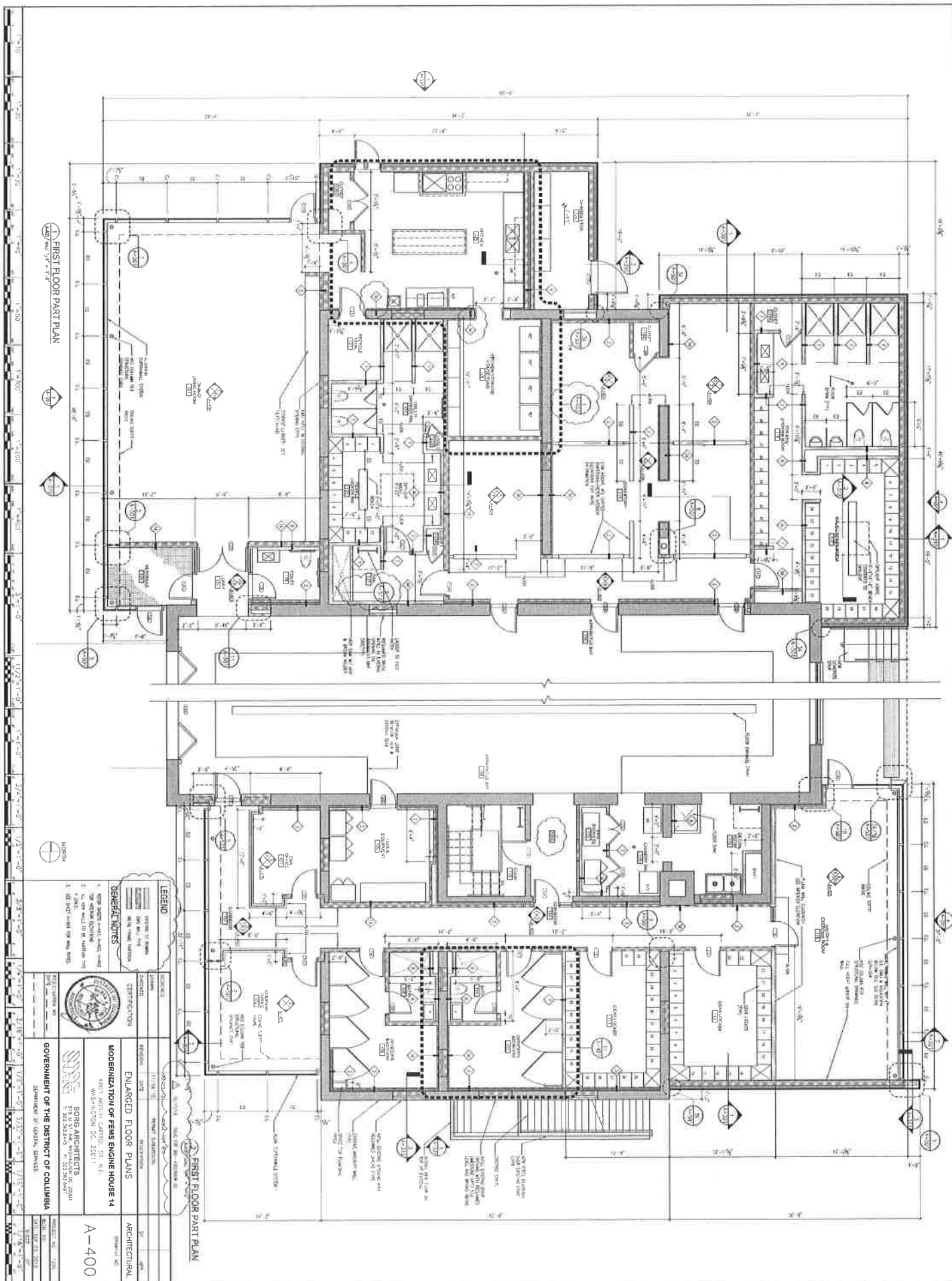


2. PART SECTION: MEN'S LOCKER ROOM



1. WALL SECTION

	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES
SONG ARCHITECTS ARCHITECTS 300 WASHINGTON, DC 20011 T 202.335.6445 F 202.335.6447	ARCHITECTURAL
MODERNIZATION OF PENS ENGINE HOUSE 14	A-312
WALL SECTIONS	
DATE FOR REVISIONS: 09/20/11 DATE FOR SET: 09/20/11	
DRAWN BY: [Name] CHECKED BY: [Name]	



1. FIRST FLOOR PART PLAN



- GENERAL NOTES**
1. REFER TO ALL DRAWINGS FOR NOTES.
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE DISTRICT OF COLUMBIA CODES AND REGULATIONS.
 3. SEE PART 1 FOR GENERAL NOTES.

LEGEND	SYMBOLS	DESCRIPTION
	WINDOW	AS SHOWN
	DOOR	AS SHOWN
	WALL	AS SHOWN
	FLOOR FINISH	AS SHOWN
	CEILING FINISH	AS SHOWN
	WALL FINISH	AS SHOWN
	DOOR FINISH	AS SHOWN
	WINDOW FINISH	AS SHOWN
	FLOOR MATERIAL	AS SHOWN
	CEILING MATERIAL	AS SHOWN
	WALL MATERIAL	AS SHOWN
	DOOR MATERIAL	AS SHOWN
	WINDOW MATERIAL	AS SHOWN

MODERNIZATION OF PERS ENGINE HOUSE #14

300 WASHINGTON, DC 20011

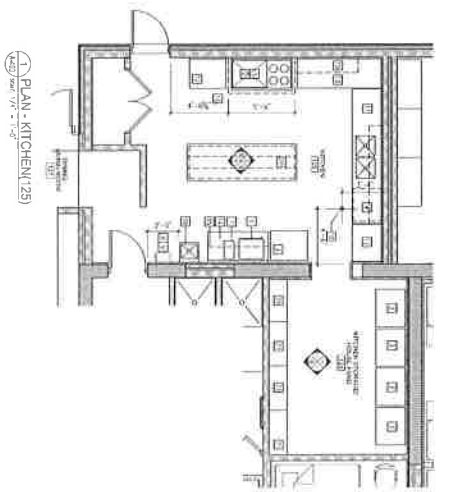
SOFG ARCHITECTS
 1100 19TH STREET, NW
 WASHINGTON, DC 20036

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF GENERAL SERVICES

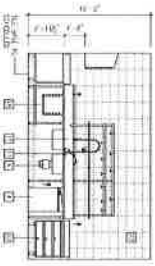
ARCHITECTURAL

A-400

DATE: 1/16/13



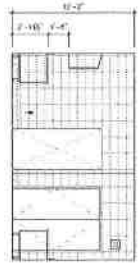
29 PLAN - KITCHEN (29)



125 INTERIOR ELEVATION-125



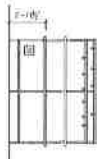
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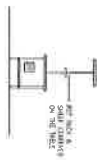
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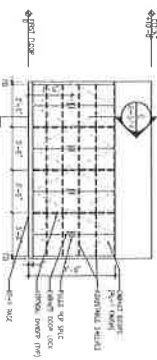
125 INTERIOR ELEVATION-125



125 ISLAND COUNTER-FRONT ELEVATION



125 ISLAND COUNTER-SIDE ELEVATION



125 INTERIOR ELEVATION-PANTRY CABINETS

GENERAL NOTES

1. ALL WORK SHALL BE ACCORDING TO THE LATEST EDITIONS OF THE NATIONAL BUILDING CODES AND ALL APPLICABLE REGULATIONS.
2. ALL WORK SHALL BE ACCORDING TO THE LATEST EDITIONS OF THE NATIONAL BUILDING CODES AND ALL APPLICABLE REGULATIONS.
3. ALL WORK SHALL BE ACCORDING TO THE LATEST EDITIONS OF THE NATIONAL BUILDING CODES AND ALL APPLICABLE REGULATIONS.
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9. ALL WORK SHALL BE ACCORDING TO THE LATEST EDITIONS OF THE NATIONAL BUILDING CODES AND ALL APPLICABLE REGULATIONS.
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REVISIONS

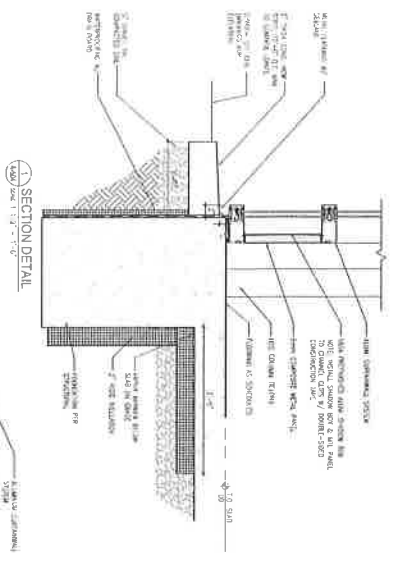
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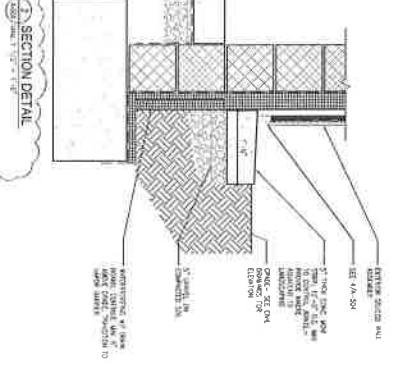
SONG ARCHITECTS
 ARCHITECTS
 1000 14TH AVENUE, SUITE 1000
 COLUMBIA, SC 29204
 (803) 733-1111
 WWW.SONGARCHITECTS.COM

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF CONSTRUCTION
 DIVISION OF PERMITS
 11/18/20

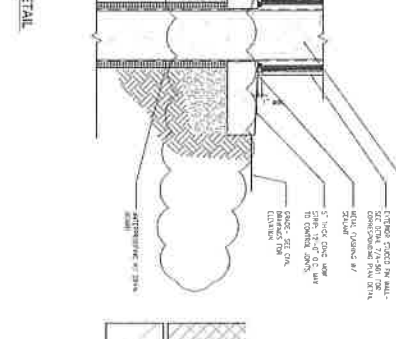
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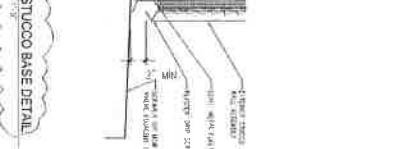
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1/2" SECTION
1/2" SECTION



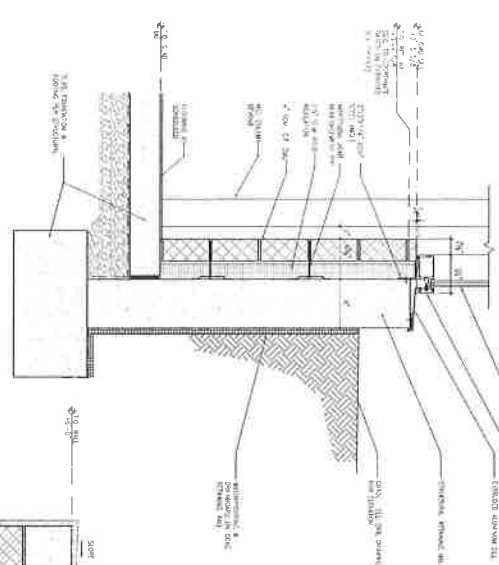
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1/2" SECTION
1/2" SECTION



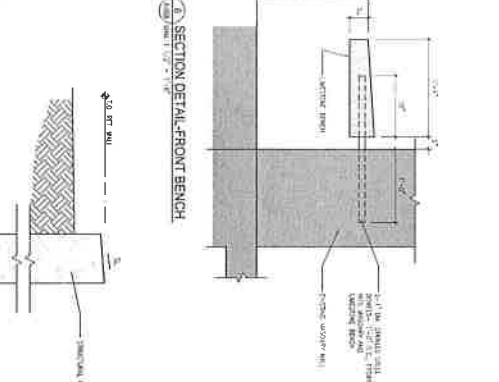
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1/2" SECTION
1/2" SECTION



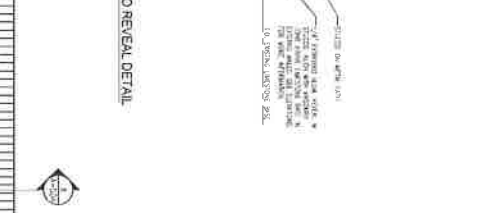
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1/2" SECTION
1/2" SECTION



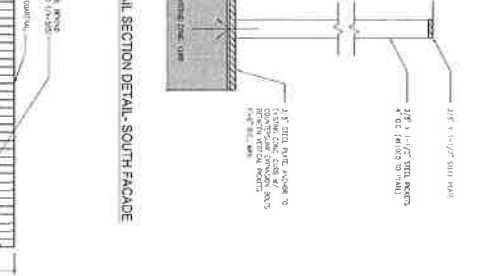
5 RETAINING WALL SECTION DETAIL
1/2" SECTION
1/2" SECTION



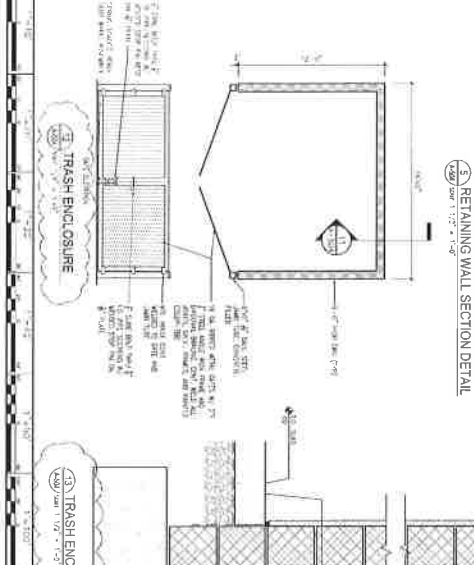
6 SECTION DETAIL-FRONT BENCH
1/2" SECTION
1/2" SECTION



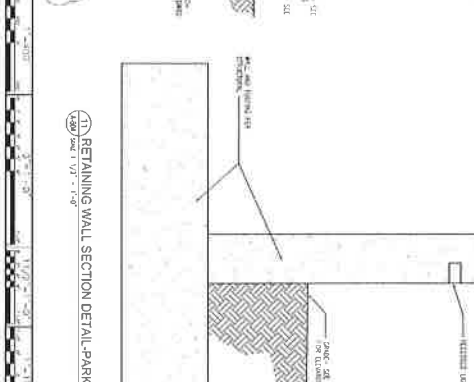
7 TYP. STUCCO REVEAL DETAIL
1/2" SECTION
1/2" SECTION



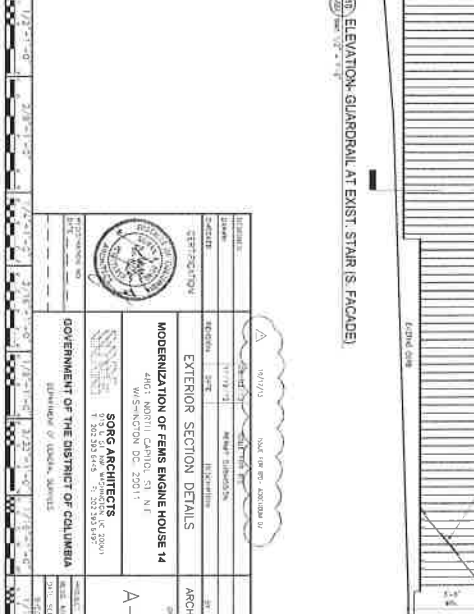
8 GUARDRAIL SECTION DETAIL-SOUTH FACADE
1/2" SECTION
1/2" SECTION



9 TRASH ENCLOSURE WALL
1/2" SECTION
1/2" SECTION

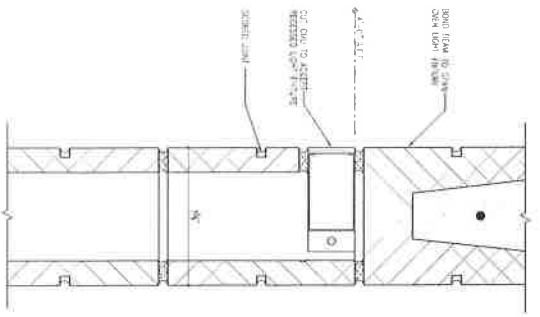


10 RETAINING WALL SECTION DETAIL-PARKING
1/2" SECTION
1/2" SECTION

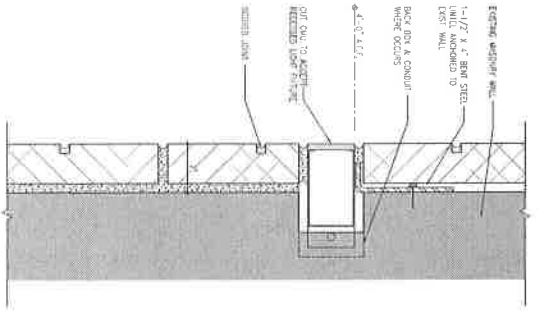


11 ELEVATOR GUARDRAIL AT EXIST. STAIR (S. FACADE)
1/2" SECTION
1/2" SECTION

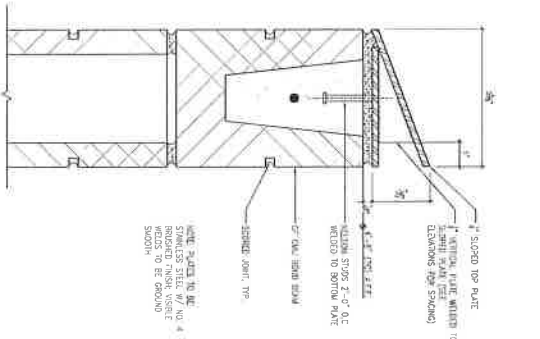
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14016	12/11/13	JL	JL
PROJECT NAME	ARCHITECT	OWNER	LOCATION
MODERNIZATION OF FEMS ENGINE HOUSE 14	SONG ARCHITECTS	GOVERNMENT OF THE DISTRICT OF COLUMBIA	WASHINGTON DC 20511
DESCRIPTION	DATE	REVISION	REVISION
EXTERIOR SECTION DETAILS	1/17/13	REPAIR CORRECTIONS	
A-504			



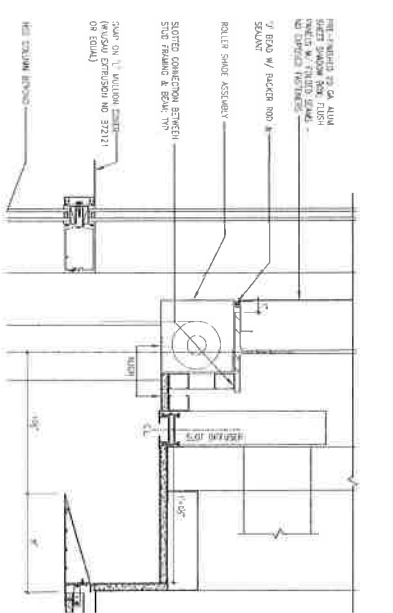
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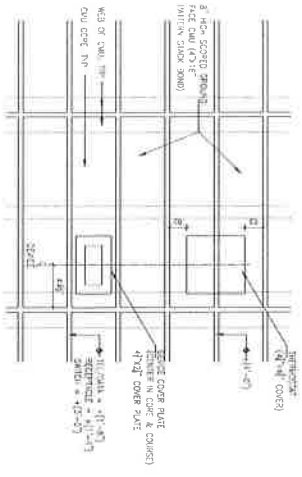
SECTION DETAIL @ DORM RM/ OFFICERS BEDROOM READING LIGHT



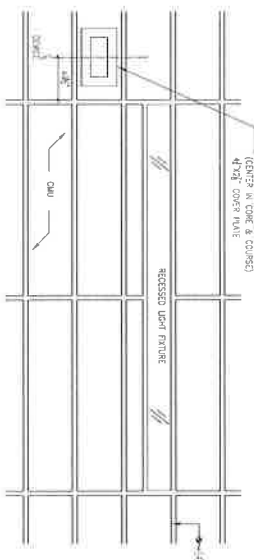
DORM ROOM PARTIAL HEIGHT PARTITION CAP



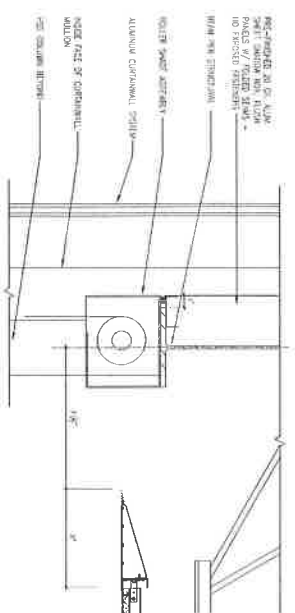
SOFFIT @ CURTAIN WALL W/ ROLLER SHADE (ROOM 127)



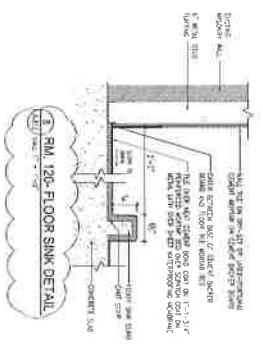
ELEVATION DETAIL - TYP. DEVICE LOCATIONS



ELEVATION DETAIL - TYP. RECESSED READING LIGHT/SWITCH



SOFFIT @ CURTAIN WALL W/ ROLLER SHADE (ROOM 102)



RM 120 - FLOOR SINK DETAIL

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MODERNIZATION OF FENS ENGINE HOUSE 14

 4801 NORTH CAPITOL, 5th N.E.

 WASHINGTON, DC 20003

 SOHO ARCHITECTS

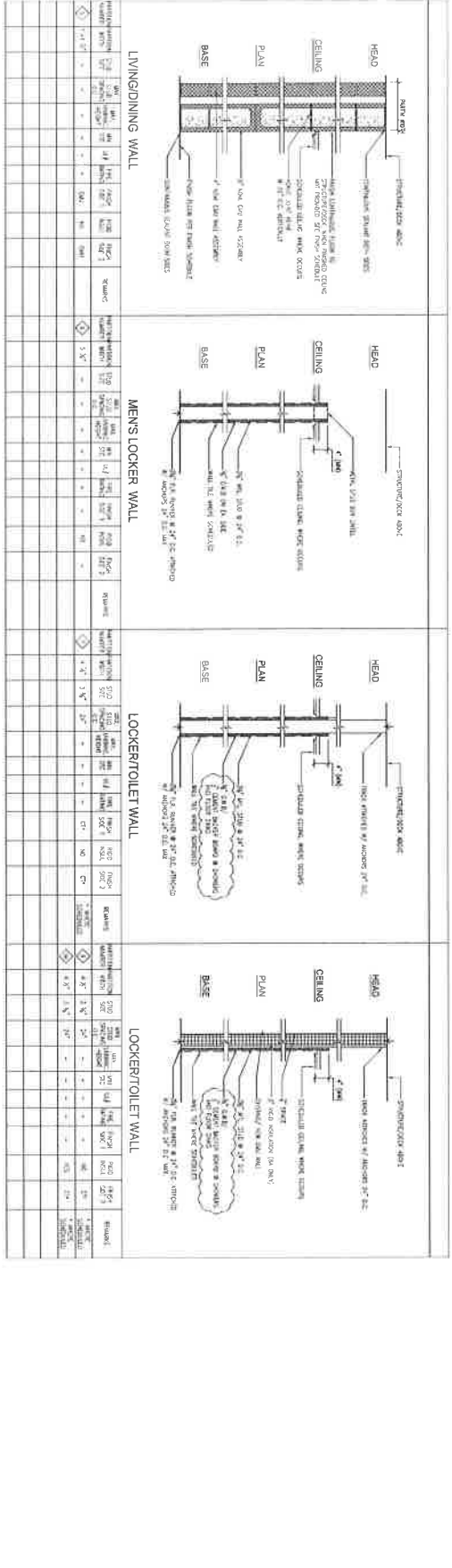
 1100 15th St NW, Suite 2000

 Washington, DC 20005

 A-512

PARTITION SCHEDULE

Room	Partition Type	Notes
Living Dining Wall	Living Dining Wall	...
Mens Locker Wall	Mens Locker Wall	...
Lockertollet Wall	Lockertollet Wall	...
Lockertollet Wall	Lockertollet Wall	...
CMU Wall	CMU Wall	...
Dormitory Wall	Dormitory Wall	...
Existing Wall	Existing Wall	...
Existing Wall	Existing Wall	...
Kitchen Storage Wall	Kitchen Storage Wall	...



GENERAL NOTES

1. ALL PARTITION WALLS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DISTRICT OF COLUMBIA ARCHITECTURAL CODE.
2. ALL PARTITION WALLS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DISTRICT OF COLUMBIA ARCHITECTURAL CODE.

GOVERNMENT OF THE DISTRICT OF COLUMBIA

ARCHITECTURAL

MODERNIZATION OF FEMS ENGINE HOUSE #4

SOONS ARCHITECTS
2700 R STREET, N.W.
WASHINGTON, D.C. 20007
202-338-5400

PROJECT NO. 1248

DATE: 08/20/2012

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

PROJECT: MODERNIZATION OF FEMS ENGINE HOUSE #4

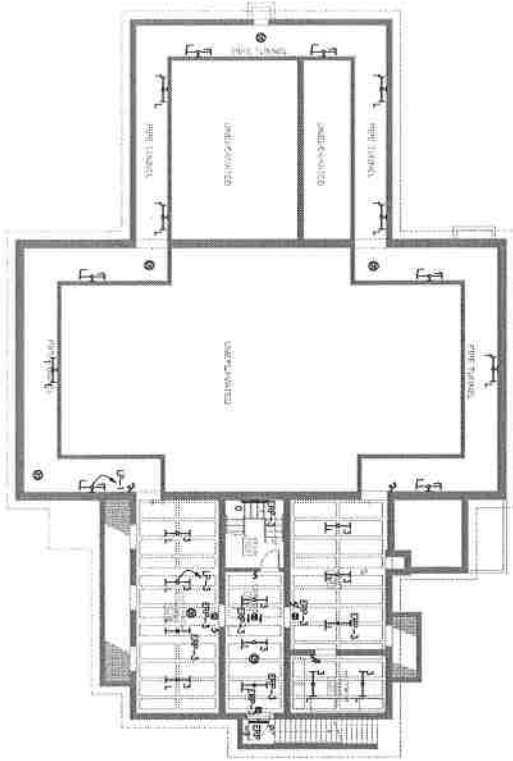
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SCALE: 1/4" = 1'-0"

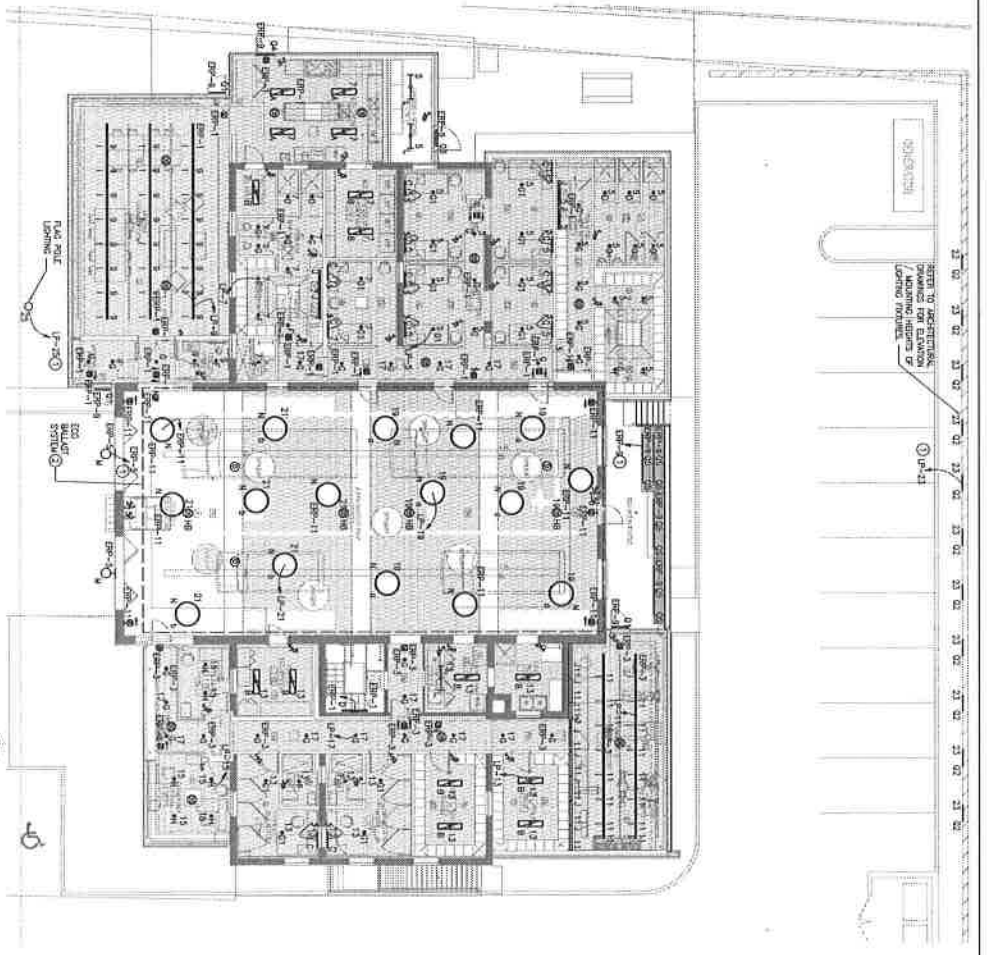
Room	Partition Type	Notes
Living Dining Wall	Living Dining Wall	...
Mens Locker Wall	Mens Locker Wall	...
Lockertollet Wall	Lockertollet Wall	...
Lockertollet Wall	Lockertollet Wall	...
CMU Wall	CMU Wall	...
Dormitory Wall	Dormitory Wall	...
Existing Wall	Existing Wall	...
Existing Wall	Existing Wall	...
Kitchen Storage Wall	Kitchen Storage Wall	...

MECHANICAL,
ENGINEERING,
PLUMBING, &
DRAWINGS

ENGINE HOUSE NO. 14



BASEMENT LIGHTING PLAN - NEW WORK
SCALE: 1/8" = 1'-0"



FIRST FLOOR LIGHTING PLAN - NEW WORK
SCALE: 1/8" = 1'-0"



- GENERAL NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOM SIZES, FINISHES, AND PARTITION WALLS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL WALLS, DOORS, AND WINDOWS.
 - REFER TO DRAWING E-402 FOR LIGHT FIXTURE SCHEDULE.
 - ROUTE LIGHTING CIRCUIT HOME RUNS THROUGH THE PRE-TUNNEL.
- NEW WORK KEY NOTES:**
- ROUTE HOME RUN TO LIGHTING TRAIL, CLOSET, AND DOWNFLOOR RIG. SEE OUTDOOR LIGHTING CONTROL SCHEDULE ON DRAWING E-401.
 - PROVIDE EOD BALLAST SYSTEM CONNECTED TO ASSOCIATED ACCESSORIES TO PROVIDE A MINIMUM OF 20 FOOT-CANDLES IN THE APPOINTMENT AREA.

- GENERAL NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOM SIZES, FINISHES, AND PARTITION WALLS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL WALLS, DOORS, AND WINDOWS.
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NO.	REVISION	DATE	BY	DESCRIPTION
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51	REVISION	02/15/18	SR	REVISIONS TO PERMIT
52	REVISION	03/15/18	SR	REVISIONS TO PERMIT
53	REVISION	04/15/18	SR	REVISIONS TO PERMIT
54	REVISION	05/15/18	SR	REVISIONS TO PERMIT
55	REVISION	06/15/18	SR	REVISIONS TO PERMIT
56	REVISION	07/15/18	SR	REVISIONS TO PERMIT
57	REVISION	08/15/18	SR	REVISIONS TO PERMIT
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63	REVISION	02/15/19	SR	REVISIONS TO PERMIT
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65	REVISION	04/15/19	SR	REVISIONS TO PERMIT
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98	REVISION	01/15/22	SR	REVISIONS TO PERMIT
99	REVISION	02/15/22	SR	REVISIONS TO PERMIT
100	REVISION	03/15/22	SR	REVISIONS TO PERMIT

PROJECT NO. 1288
DATE: 01/15/21
DRAWN BY: SR
CHECKED BY: SR
DATE: 01/15/21

SOBARCHITECTS
510 15th St. NW, Washington DC 20001
202.462.1111
www.sobarchitects.com

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

MODERNIZATION OF FEMS ENGINE HOUSE 14
4801 NORTH CAPITOL ST. N.E.
WASHINGTON DC, 20011

E-102

REVISIONS TO PERMIT
DATE: 01/15/21
DRAWN BY: SR
CHECKED BY: SR
DATE: 01/15/21

REVISIONS TO PERMIT
DATE: 01/15/21
DRAWN BY: SR
CHECKED BY: SR
DATE: 01/15/21

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

MECHANICAL EQUIPMENT SCHEDULE

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
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2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
1	MECHANICAL EQUIPMENT SCHEDULE								
2	...								
100	MECHANICAL EQUIPMENT SCHEDULE								

NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
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2	...								
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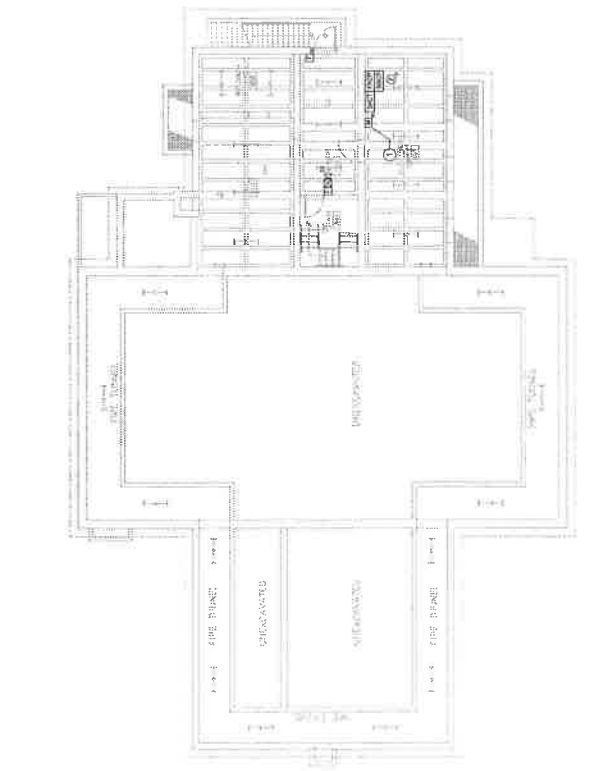
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2	...								
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NO.	DESCRIPTION	AMOUNT	UNIT	QTY	DATE	BY	REVISION	DATE	BY
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2	...								
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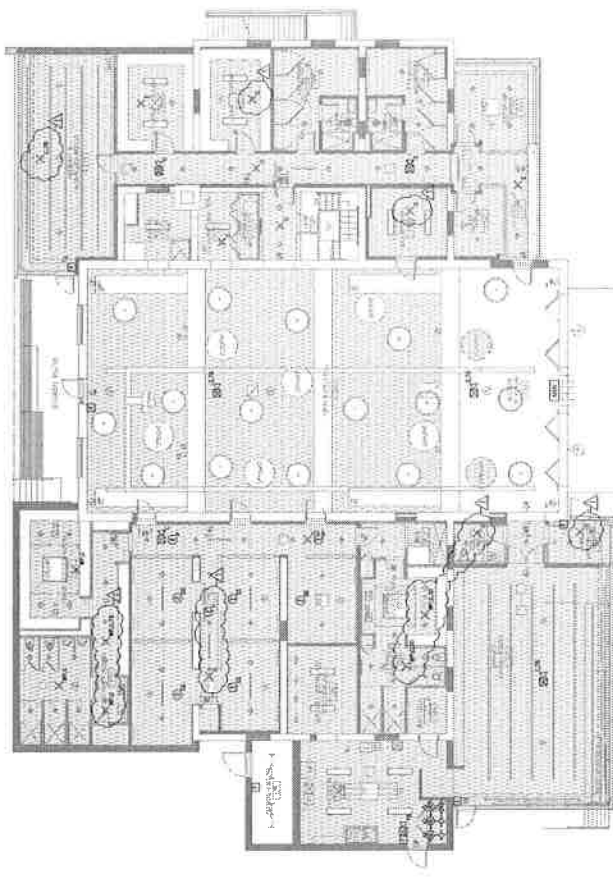


GOVERNMENT OF THE DISTRICT OF COLUMBIA
 OFFICE OF THE DEPARTMENT OF GENERAL SERVICES
 MODERNIZATION OF FEENS ENGINE HOUSE 14
 4801 NORTH CAPITOL ST. NE
 WASHINGTON DC, 20011

DESIGNER: SORS ARCHITECTS
 312 G ST. NE, WASHINGTON DC, 20002
 DATE: 06/24/2010
 DRAWING NO: 1200
 SHEET: MECHANICAL EQUIPMENT SCHEDULE
 OF: 602



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



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



FIRE ALARM KEY NOTES:

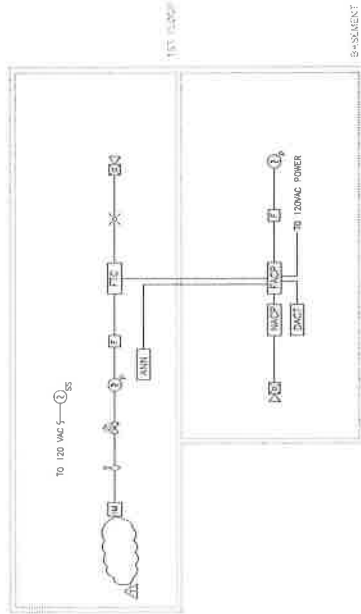
- ① INTERFACE MODULES TO MONITOR DEGENERATE RISE AND FALL. CONTACTS TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE EQUIPMENT, PROVIDE THE CONTACT AND DO WIRING BETWEEN THE MODULES AND GENERATOR. CONTACTS TO BE PROVIDED BY THE CONTRACTOR. CONTACTS TO BE PROVIDED BY THE CONTRACTOR. CONTACTS TO BE PROVIDED BY THE CONTRACTOR.

PROJECT NO.	191713	DATE FOR RECORD	11/18/14
CLIENT	MODERNIZATION OF FENS ENGINE HOUSE 14	PROJECT LOCATION	WASHINGTON, DC
DESIGNER	SONG ARCHITECTS	DATE	11/18/14
CERTIFICATION	MODERNIZATION OF FENS ENGINE HOUSE 14	DESCRIPTION	FIRE ALARM
DESIGNER'S ADDRESS	SONG ARCHITECTS 1100 15th St NW Washington, DC 20004	DATE	11/18/14
CLIENT'S ADDRESS	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES	DATE	11/18/14
PROJECT NO.	191713	DATE FOR RECORD	11/18/14
CLIENT	MODERNIZATION OF FENS ENGINE HOUSE 14	PROJECT LOCATION	WASHINGTON, DC
DESIGNER	SONG ARCHITECTS	DATE	11/18/14
CERTIFICATION	MODERNIZATION OF FENS ENGINE HOUSE 14	DESCRIPTION	FIRE ALARM
DESIGNER'S ADDRESS	SONG ARCHITECTS 1100 15th St NW Washington, DC 20004	DATE	11/18/14
CLIENT'S ADDRESS	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES	DATE	11/18/14
PROJECT NO.	191713	DATE FOR RECORD	11/18/14
CLIENT	MODERNIZATION OF FENS ENGINE HOUSE 14	PROJECT LOCATION	WASHINGTON, DC
DESIGNER	SONG ARCHITECTS	DATE	11/18/14
CERTIFICATION	MODERNIZATION OF FENS ENGINE HOUSE 14	DESCRIPTION	FIRE ALARM
DESIGNER'S ADDRESS	SONG ARCHITECTS 1100 15th St NW Washington, DC 20004	DATE	11/18/14
CLIENT'S ADDRESS	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES	DATE	11/18/14

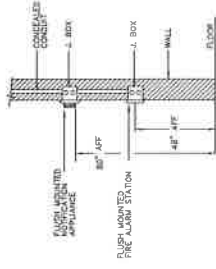
1	MANUAL FIRE ALARM STATION	•	•	•	•
2	SPOT-TYPE SMOKE DETECTOR	•	•	•	•
3	SPRINKLER WATERFLOW	•	•	•	•
4	DIFFERENTIAL PRESSURE	•	•	•	•
5	SYSTEM BURNOUT FAULT SIGNAL	•	•	•	•
6	SYSTEM TROUBLE SIGNAL	•	•	•	•

FIRE ALARM EVENT MATRIX

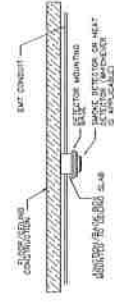
1 FIRE ALARM EVENT MATRIX
SCALE NONE



3 FIRE ALARM RISER DIAGRAM
SCALE NONE



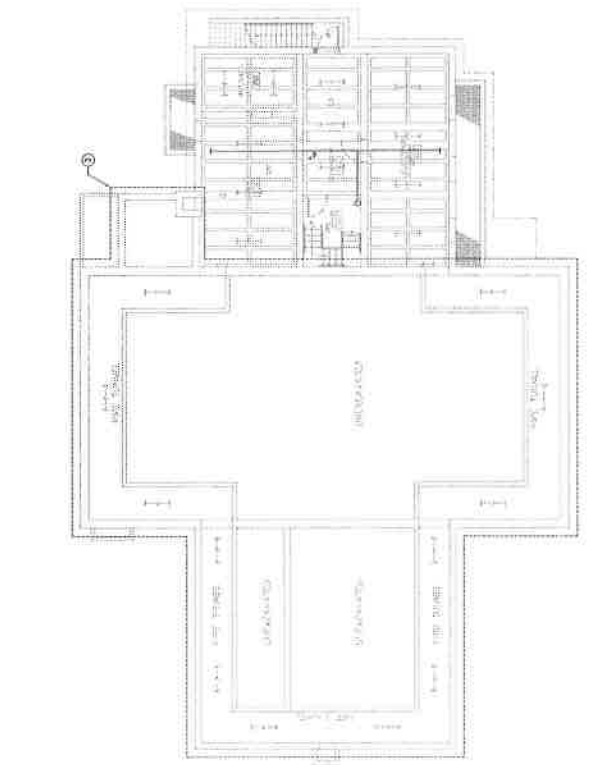
2 FLUSH MOUNT
MANUAL STATION, STROBE, HORN
SCALE NONE



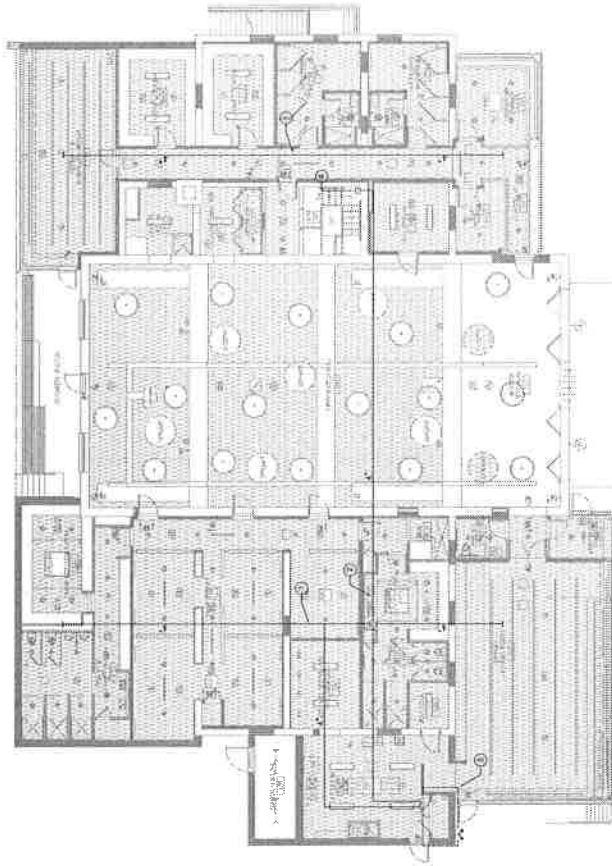
4 SMOKE DETECTOR
MOUNTING DETAIL - OPEN CEILING
SCALE NONE

DESIGNED	DATE	BY	CHECKED	DATE	BY
DRAWN	DATE	BY	REVISION	DATE	BY
CHECKED	DATE	BY	DESCRIPTION	DATE	BY
CERTIFICATION	FIRE ALARM INSTALLATION				
MODERNIZATION OF FEMS ENGINE HOUSE 14					
4801 NORTH CAPITOL ST. N.E.					
WASHINGTON DC 20011					
SORG ARCHITECTS					
1100 EIGHTH STREET N.W.					
WASHINGTON DC 20004					
GOVERNMENT OF THE DISTRICT OF COLUMBIA					
DEPARTMENT OF SOCIAL SERVICES					
PROJECT NO.	DATE	SCALE	DATE	SCALE	DATE
FA-501	7/18/07	1/8" = 1'-0"	7/18/07	1/8" = 1'-0"	7/18/07

100 Engineers, P.C.					
1000 Pennsylvania Avenue, N.W., Suite 2000					
Washington, D.C. 20004					
PROJ. NO.	DATE	SCALE	DATE	SCALE	DATE
100-00000000	7/18/07	1/8" = 1'-0"	7/18/07	1/8" = 1'-0"	7/18/07



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



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SPRINKLER KEY NOTES:

- ① 4-INCH SPRINKLER MAIN SERVING THE FIRST FLOOR. INSTALL A BRANDED SYSTEM TO SERVE THE FIRST FLOOR. CONNECT MAINS WITH BRANCHLINES (RUNNING ACROSS APPARATUS BAY).
- ② 4-INCH SPRINKLER MAIN SERVING THE BASEMENT LEVEL.
- ③ UNCOMBATED, USE/NOV-COMBUSTIBLE PIPE TUNNEL. SPRINKLER PROTECTION NOT REQUIRED PER NFPA 13.
- ④ 4-INCH CORNER TO SUSCEPT LEVEL. INSTALL REOR TIGHT TO CORNER OF STAIRWAY.
- ⑤ SEE SHEET FP-501 FOR DETAILED LAYOUT.

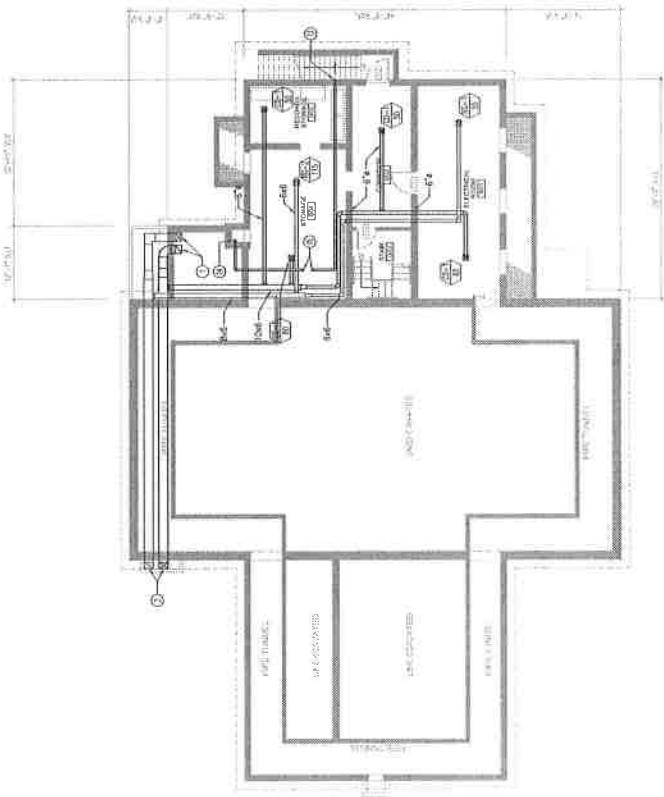
REVISION	DATE	BY	DESCRIPTION
1	10/17/13	MM	BASE FOR HD-AUTOMATIC IR
2	11/18/13	MM	HEAT SENSATION
3	11/18/13	MM	REVISION
4	11/18/13	MM	BASEMENT AND FIRST FLOOR PLANS
5	11/18/13	MM	REVISION
6	11/18/13	MM	REVISION
7	11/18/13	MM	REVISION
8	11/18/13	MM	REVISION
9	11/18/13	MM	REVISION
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98	11/18/13	MM	REVISION
99	11/18/13	MM	REVISION
100	11/18/13	MM	REVISION

MODERNIZATION OF FEMS ENGINE HOUSE 14
 4801 NORTH CAROL ST. N.E.
 WASHINGTON, DC 20511
SPRINKLER
 DRAWING NO. **FP-101**

SOORG ARCHITECTS
 1100 15TH ST. N.W.
 WASHINGTON, DC 20004
 PHONE: 202.331.8449 FAX: 202.331.8497

GOVERNMENT OF THE DISTRICT OF COLUMBIA
 DEPARTMENT OF BUDGET SERVICES

PROJECT NO. 1388
 DATE: 10/11/13
 DATE: 10/11/13
 DATE: 1/15/14



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

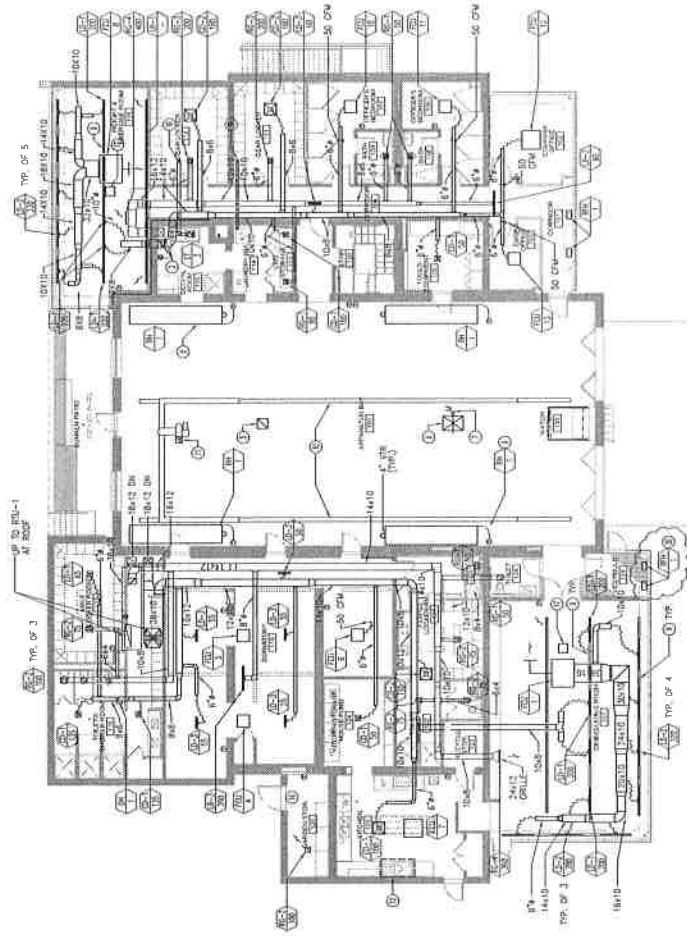


GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR PLACEMENT OF DEVICES IN CEILING.

DRAWING NOTES:

- ① 18x12 LP
- ② 18x12 UP
- ③ 18x12 DN
- ④ NOT USED
- ⑤ 21x21 OPENING TO EF-1
- ⑥ 28x40 OPENING TO LP-1
- ⑦ INTERLOCK TO EF-1
- ⑧ RADIANT HEAT UNITS, COORDINATE MOUNTING LOCATIONS W/ EXHAUST SYSTEM AND REQUIRED CLEARANCES (TYP. DF 4)
- ⑨ BLANKED OFF SECTION OF LINEAR DIFFUSER



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

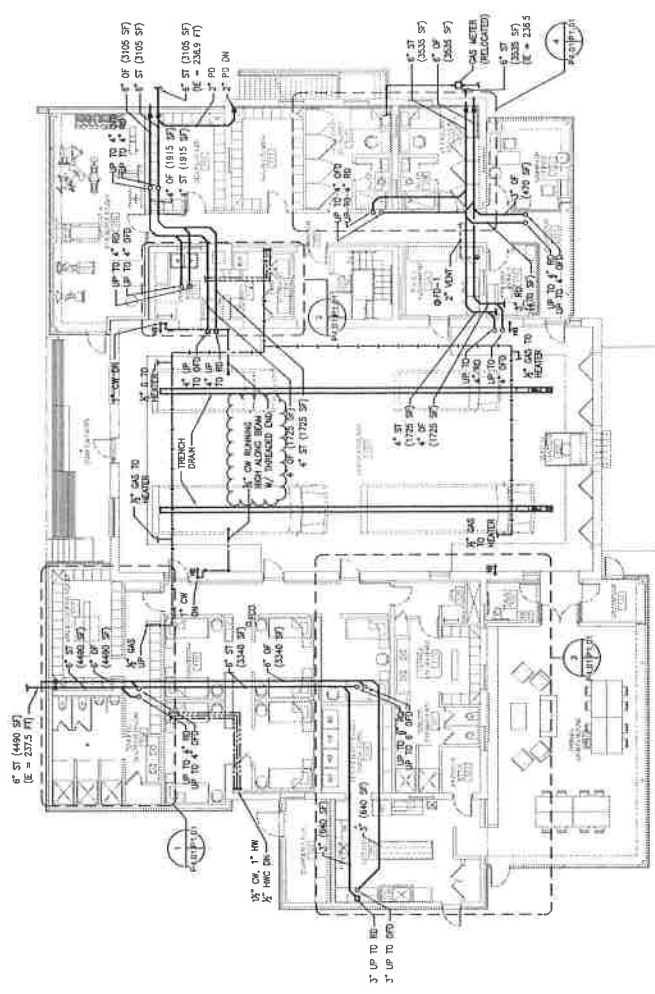


- ⑩ NEW VEHICLE EXHAUST EXTRACTION SYSTEM
- ⑪ 12x12 OPENING FOR VEHICLE EXHAUST FAN AT ROOF
- ⑫ SEE DWGS 401 & 402 FOR HOOD DETAILS
- ⑬ COMBUSTION AIR INTAKE FOR WATER HEATER
- ⑭ 4" FLE FOR WATER HEATER
- ⑮ 4" FLE/COMBUSTION AIR INTAKE, SEE PLUMBING DRAWINGS
- ⑯ LOWER ABOVE DOOR: 0-4, 5-F, FREE AREA
- ⑰ 18"x18" ACCESS HATCH
- ⑱ 6" EXHAUST DUCT, DISCHARGE AT ROOF, PROVIDE CAP.
- ⑲ 6" EXHAUST DUCT, DISCHARGE AT ROOF, PROVIDE CAP.
- ⑳ HEATER UNITS, COORDINATE MOUNTING LOCATIONS W/ EXHAUST SYSTEM AND REQUIRED CLEARANCES (TYP. DF 4)

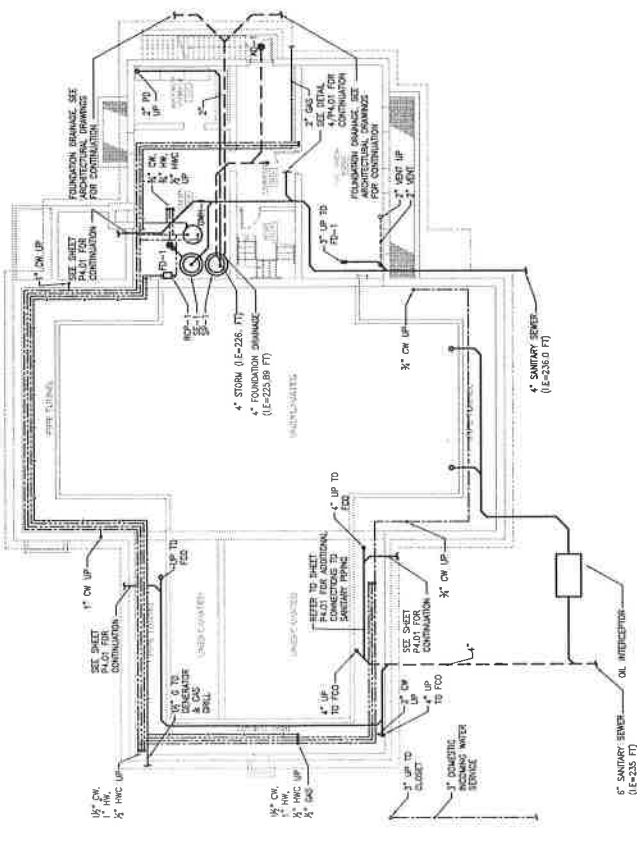
DATE	10/17/18	SCALE FOR REV. - ANNOTATION III
REVISION	11/18/18	REVISED DESCRIPTION
DESIGNED	MECHANICAL	MECHANICAL
CHECKED		
MODERNIZATION OF FEMS ENGINE HOUSE 14 4850 WASHINGTON, D.C. 20011 SOREN ARCHITECTS 1115 K ST. N.W. WASHINGTON, D.C. 20004 T: 202.253.8445 F: 202.253.5497		
GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES		

PROJECT NO.	118
BLDG. NO.	11811
SECTION	MECHANICAL
DRAWING NO.	M-101

1"=10'	1"=20'	1"=30'	1"=40'	1"=50'	1"=100'	1"=200'	1"=500'	1"=1000'
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FIRST FLOOR PLAN - NEW WORK
SCALE: 1/8" = 1'-0"



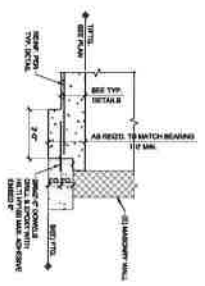
BASEMENT PLAN - NEW WORK
SCALE: 1/8" = 1'-0"

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3	01/24/13	ISSUE FOR BIDDING		
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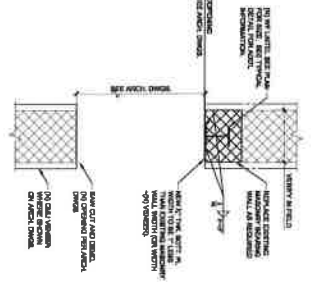
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ISSUE DATE	10/17/12
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DRAWN BY	JMP
CHECKED BY	JMP
TITLE	BIDDING AND FIRST FLOOR PLANS - NEW WORK
PROJECT LOCATION	MODERNIZATION OF FERMS ENGINE HOUSE 14
PROJECT ADDRESS	458 SOUTH WASHINGTON ST. N.E.
CITY	WASHINGTON DC, 20011
OWNER	GOVERNMENT OF THE DISTRICT OF COLUMBIA
OWNER ADDRESS	CONTRACT MANAGER'S OFFICE
CITY	WASHINGTON DC, 20011
OWNER PHONE	202-635-4444
OWNER FAX	202-635-4447
OWNER E-MAIL	
OWNER CONTACT	
OWNER CONTACT PHONE	
OWNER CONTACT FAX	
OWNER CONTACT E-MAIL	
PROJECT NO.	P.101
DATE	10/17/12
ISSUE NO.	1
ISSUE DATE	10/17/12
ISSUE DESCRIPTION	ISSUE FOR BIDDING
ISSUED BY	JMP
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OWNER CONTACT	
OWNER CONTACT PHONE	
OWNER CONTACT FAX	
OWNER CONTACT E-MAIL	

STRUCTURAL
DRAWINGS

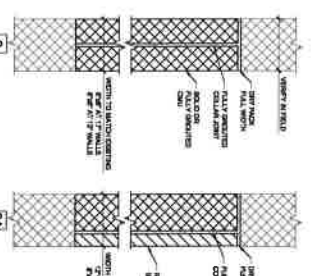
ENGINE HOUSE NO. 14



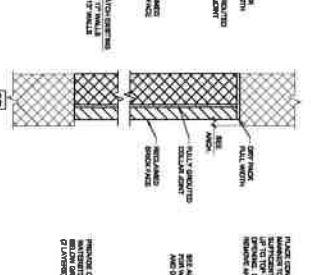
SECTION 1
TYPICAL NEW OPENING IN EXISTING WALL



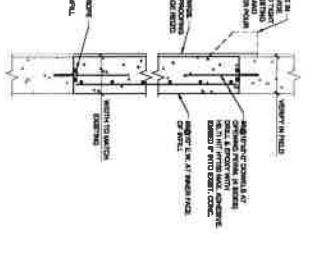
SECTION 2
TYPICAL CMU OPENING INFILL DETAIL



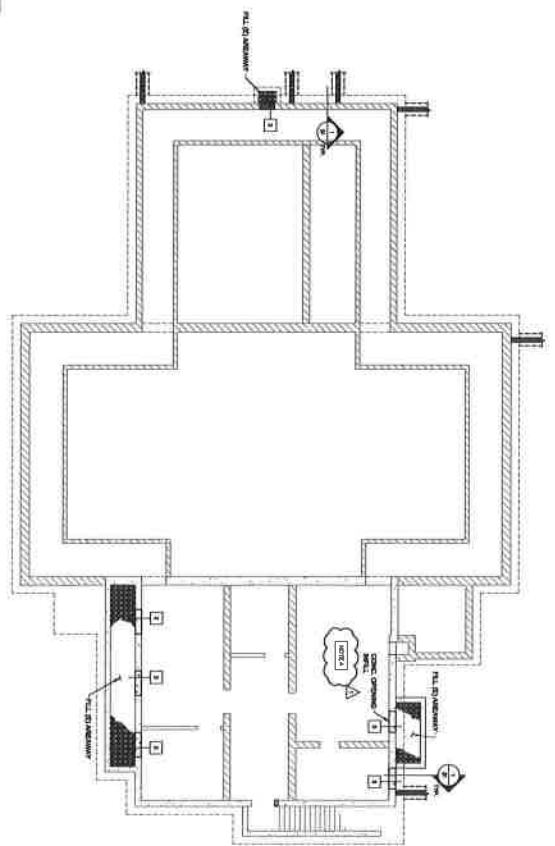
SECTION 2A
TYPICAL CONCRETE OPENING INFILL DETAIL



SECTION 2B
TYPICAL CONCRETE OPENING INFILL DETAIL



SECTION 3
TYPICAL CONCRETE OPENING INFILL DETAIL



BASEMENT/FOUNDATION PLAN
SCALE 1/8"=1'-0"

- 1. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 2. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 3. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 4. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 5. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 6. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
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- 16. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 17. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 18. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 19. FOUNDATION EXISTING UNDER THE EXISTING PLAN.
- 20. FOUNDATION EXISTING UNDER THE EXISTING PLAN.

NOTES:

- SEE S1.0 FOR DETAIL AND TYPICAL REINFORCEMENT.
- SEE S1.0 FOR DETAIL AND TYPICAL REINFORCEMENT.
- SEE S1.0 FOR DETAIL AND TYPICAL REINFORCEMENT.

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITS	01/15/2024
2	REVISED PER COMMENTS	02/01/2024
3	REVISED PER COMMENTS	02/15/2024
4	REVISED PER COMMENTS	03/01/2024
5	REVISED PER COMMENTS	03/15/2024
6	REVISED PER COMMENTS	04/01/2024
7	REVISED PER COMMENTS	04/15/2024
8	REVISED PER COMMENTS	05/01/2024
9	REVISED PER COMMENTS	05/15/2024
10	REVISED PER COMMENTS	06/01/2024
11	REVISED PER COMMENTS	06/15/2024
12	REVISED PER COMMENTS	07/01/2024
13	REVISED PER COMMENTS	07/15/2024
14	REVISED PER COMMENTS	08/01/2024
15	REVISED PER COMMENTS	08/15/2024
16	REVISED PER COMMENTS	09/01/2024
17	REVISED PER COMMENTS	09/15/2024
18	REVISED PER COMMENTS	10/01/2024
19	REVISED PER COMMENTS	10/15/2024
20	REVISED PER COMMENTS	11/01/2024

PROJECT INFORMATION:

OWNER: **GOVERNMENT OF THE DISTRICT OF COLUMBIA**

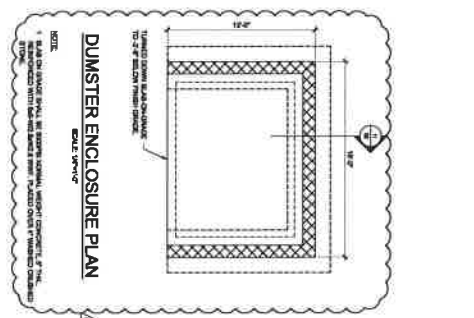
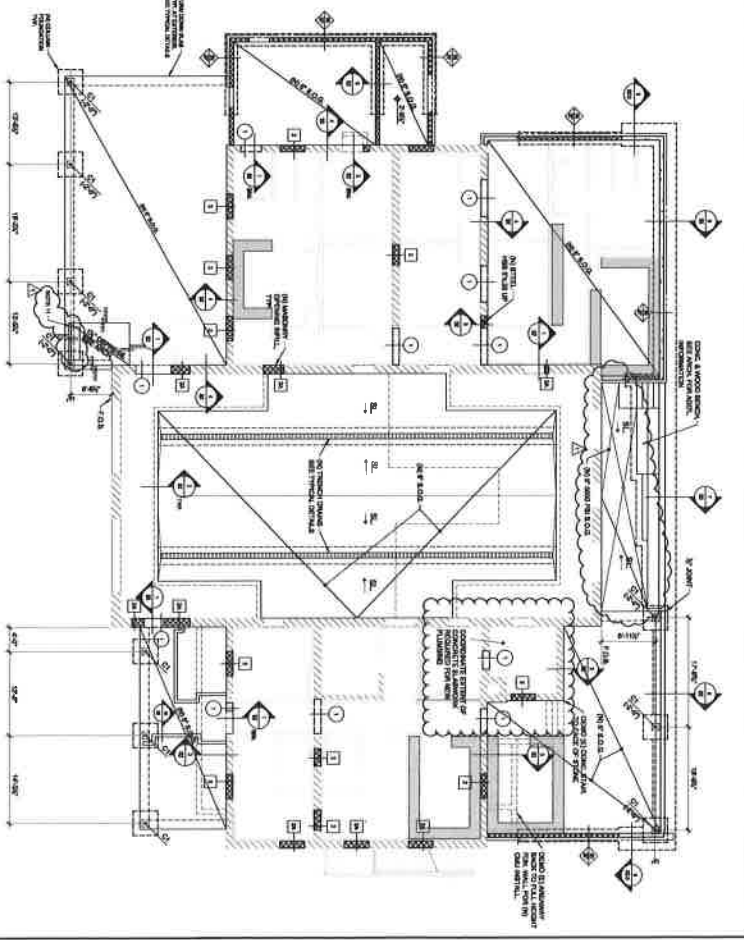
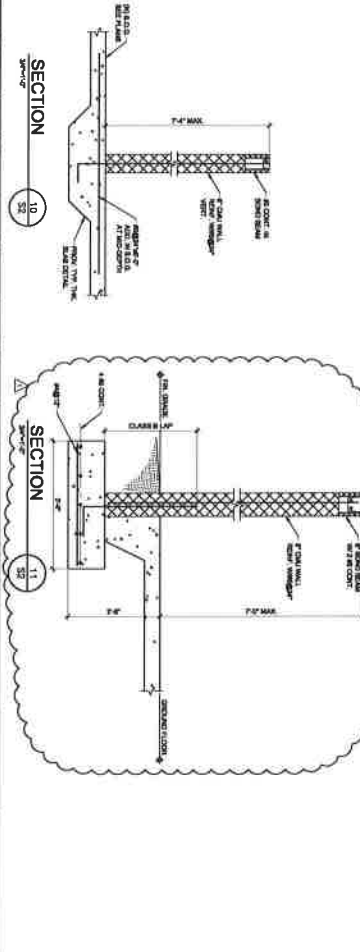
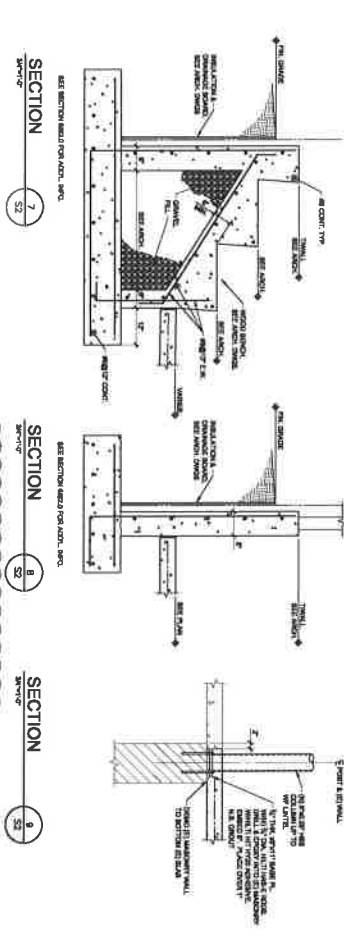
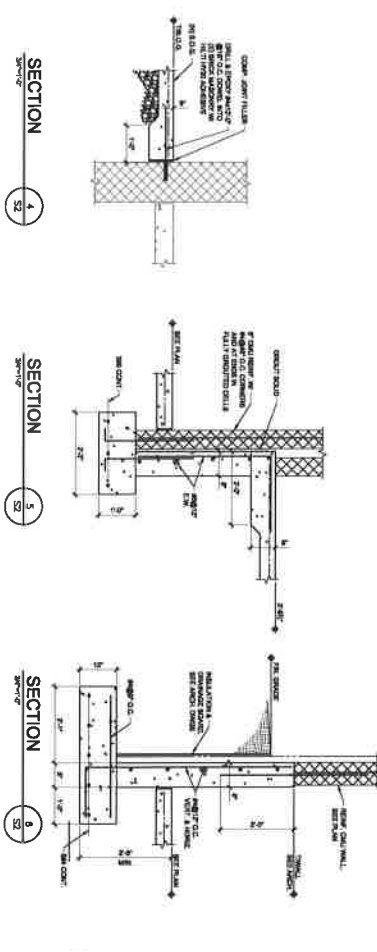
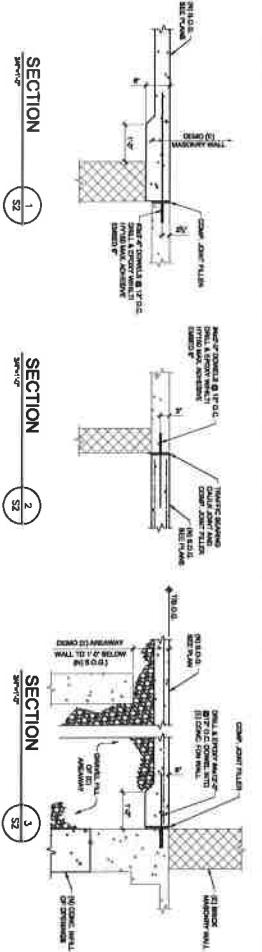
PROJECT: **MODERNIZATION OF FEWS ENGINE HOUSE 14**

LOCATION: **4801 NORTH CAPITOL STREET, WASHINGTON DC 20541**

ARCHITECT: **SONG ARCHITECTS**

ENGINEER: **SKKA**

S1.0

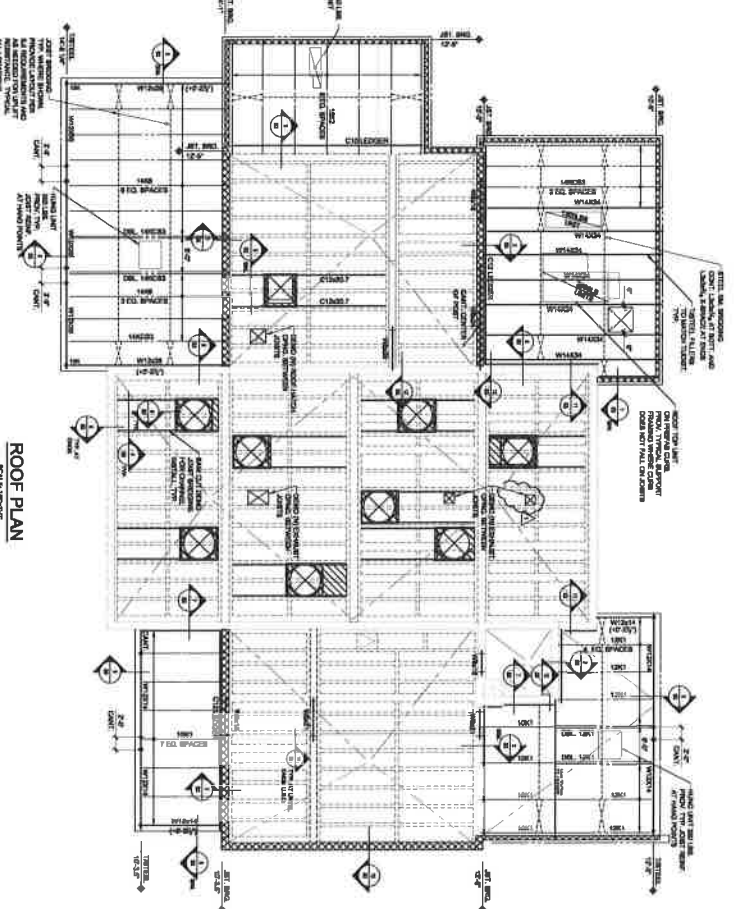
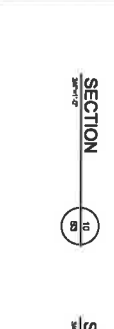
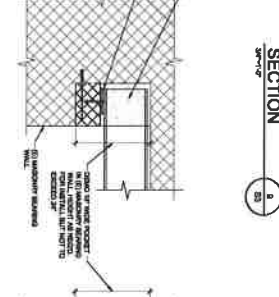
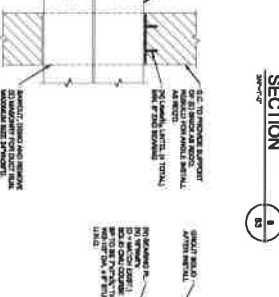
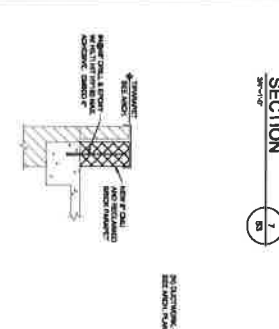
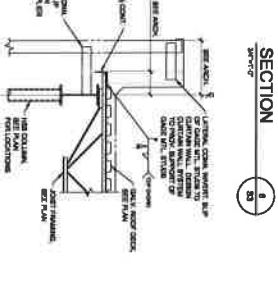
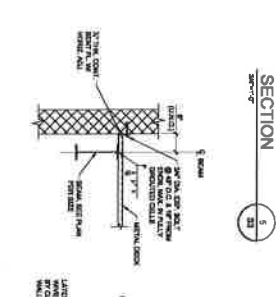
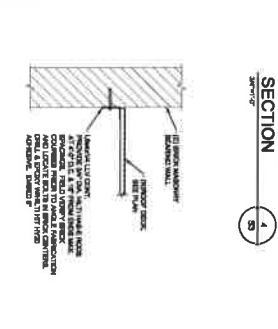
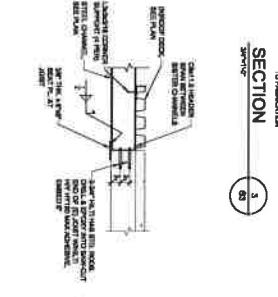
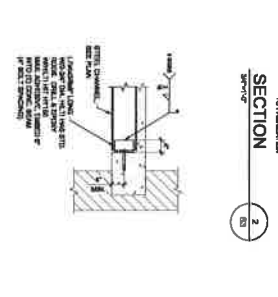
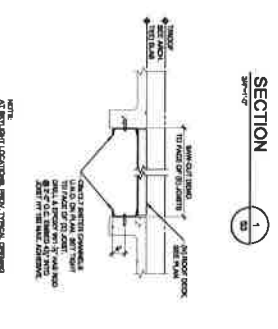
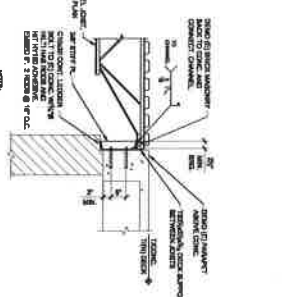
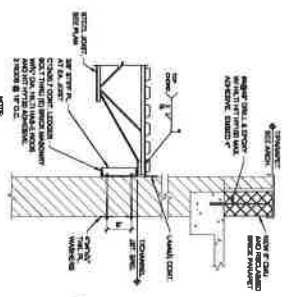
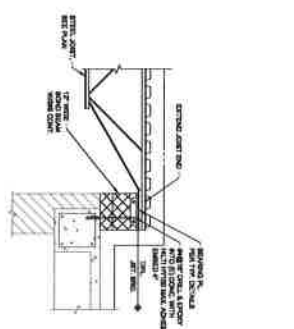


- NOTES:**
1. SLAB ON GRADE SHALL BE 8" THICK CONCRETE, REINFORCED WITH #4 BARS @ 18" ON CENTER. ALL REINFORCING SHALL BE PLACED OVER FINISHED GRADE.
 2. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.
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 20. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.

SKVA
SOLA Structural Engineers, PLLC
1000 Connecticut Ave., Suite 400
Washington, DC 20036
Tel: 202-462-1800

PROJECT NO.	1000
DATE	01/15/2010
DESIGNER	SKVA
CHECKED	SKVA
APPROVED	SKVA
CERTIFICATION	GROUND FLOOR PLAN
PROJECT NAME	MODERNIZATION OF FENS ENGINE HOUSE 14
CLIENT	4601 NORTH CAPITOL ST. NE WASHINGTON DC 20011
ARCHITECT	SONS ARCHITECTS 1100 15TH ST. N.W. WASHINGTON DC 20005
PROJECT NO.	1000
DATE	01/15/2010
DESIGNER	SKVA
CHECKED	SKVA
APPROVED	SKVA
CERTIFICATION	GROUND FLOOR PLAN
PROJECT NAME	MODERNIZATION OF FENS ENGINE HOUSE 14
CLIENT	4601 NORTH CAPITOL ST. NE WASHINGTON DC 20011
ARCHITECT	SONS ARCHITECTS 1100 15TH ST. N.W. WASHINGTON DC 20005
PROJECT NO.	1000
DATE	01/15/2010
DESIGNER	SKVA
CHECKED	SKVA
APPROVED	SKVA
CERTIFICATION	GROUND FLOOR PLAN
PROJECT NAME	MODERNIZATION OF FENS ENGINE HOUSE 14
CLIENT	4601 NORTH CAPITOL ST. NE WASHINGTON DC 20011
ARCHITECT	SONS ARCHITECTS 1100 15TH ST. N.W. WASHINGTON DC 20005

S2.0



- EXPLANATION:**
1. TYPICAL - VERTICAL LINES
 2. SEE DRAWING CONTINUOUS
 3. SEE DRAWING CONTINUOUS
 4. SEE DRAWING CONTINUOUS
 5. SEE DRAWING CONTINUOUS
 6. SEE DRAWING CONTINUOUS
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 10. SEE DRAWING CONTINUOUS
 11. SEE DRAWING CONTINUOUS
 12. SEE DRAWING CONTINUOUS
 13. SEE DRAWING CONTINUOUS

SECTION	10	11	12	13
SCALE	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"

SECTION	1	2	3	4	5	6	7	8	9
SCALE	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"	3/8" = 1'-0"

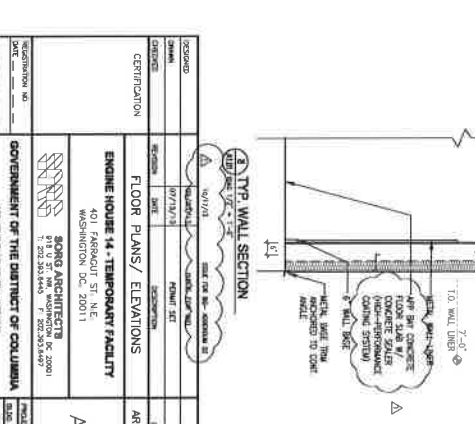
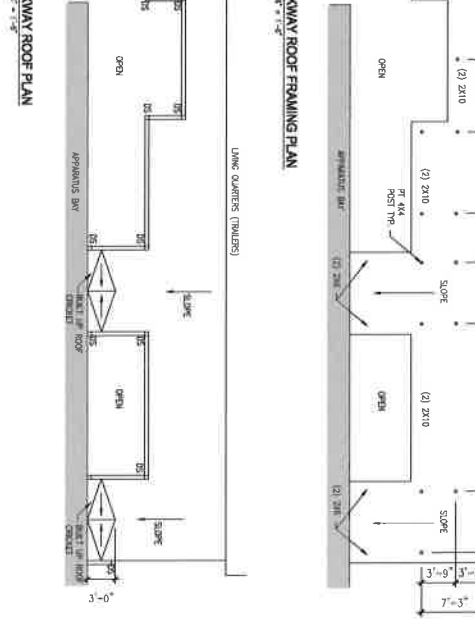
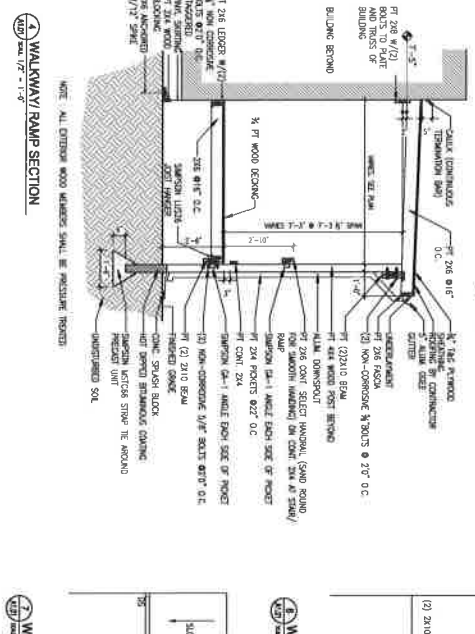
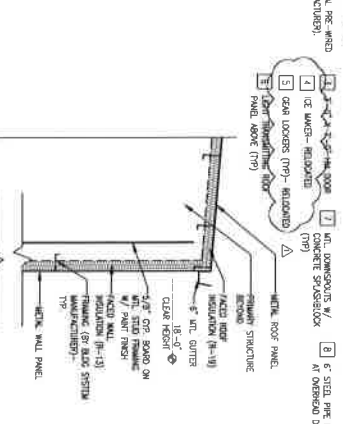
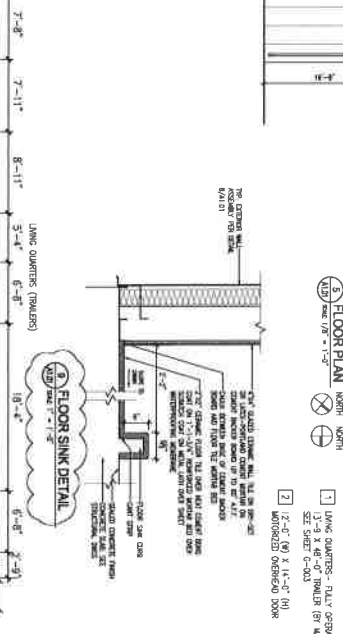
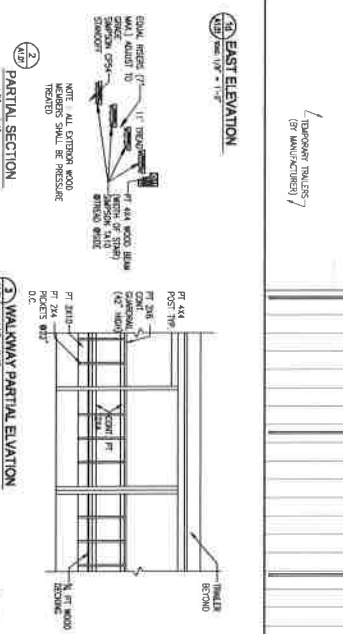
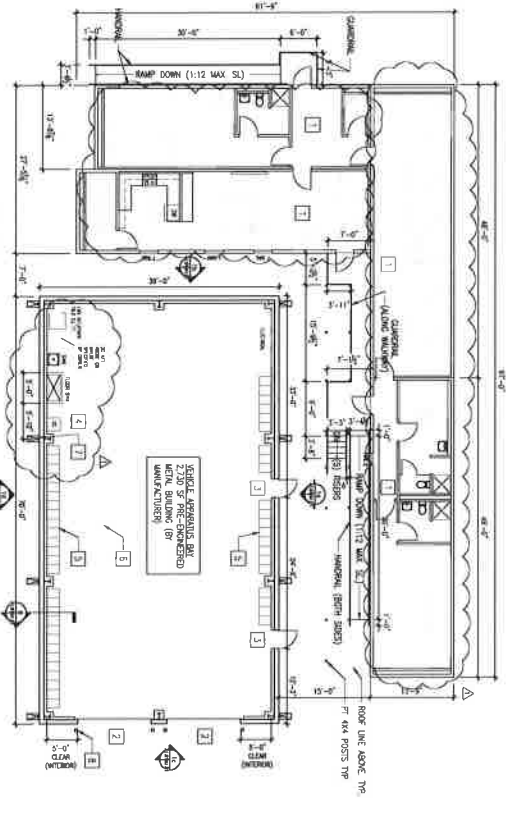
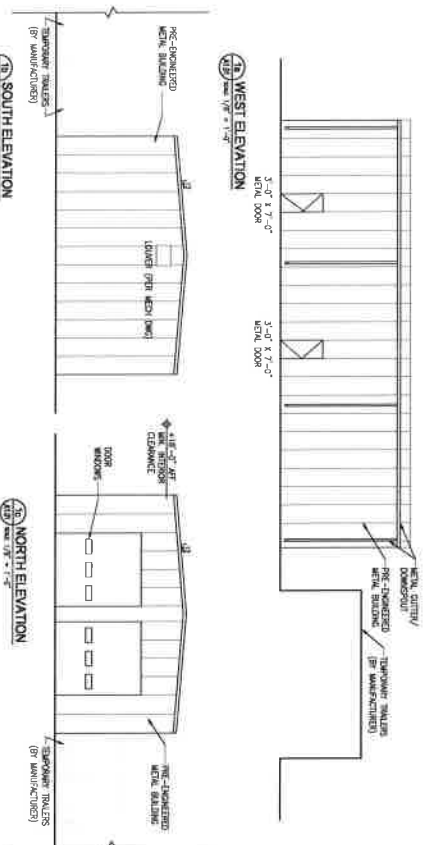
SKKA
SKKA Structural Engineering, PLLC
1000 Connecticut Avenue, Suite 800
Washington, DC 20036
Tel: 202-462-1000
www.skka.com

SONG ARCHITECTS
4801 NORTH CAPITOL STREET, N.E.
WASHINGTON, DC 20002
Tel: 202-462-1000
www.songarchitects.com

PROJECT NO.	14
DATE	11/11/10
SCALE	3/8" = 1'-0"
PROJECT NAME	MODERNIZATION OF FEANS ENGINE HOUSE 14
CLIENT	GOVERNMENT OF THE DISTRICT OF COLUMBIA
ARCHITECT	SONG ARCHITECTS
ENGINEER	SKKA
DESIGNER	SKKA
CHECKER	SKKA
DATE	11/11/10

ARCHITECTURAL
DRAWINGS

TEMPORARY
FACILITY



PROJECT NO.	1028
DATE	03/20/21
DESIGNER	ARCHITECTURAL
ENGINEER	ARCHITECTURAL
PROJECT NAME	ENGINE HOUSE 14 - TEMPORARY FACILITY
CLIENT	GOVERNMENT OF THE DISTRICT OF COLUMBIA
ADDRESS	WASHINGTON, DC 20011
PHONE	202-535-4445
FAX	202-535-4497
PROJECT NO.	A-101

CODE ANALYSIS SHEET

APPLICABLE CODES	International Existing Building Code (IBC), (2006); International Building Code (2006); 12A DCMR
BUILDING	International Existing Building Code (IBC), (2006); International Building Code (2006); 12A DCMR
ELECTRICAL	NEPA National Electrical Code (2005); 12C DCMR Code Supplement (2008)
MECHANICAL	International Mechanical Code (2006); 12E DCMR Code Supplement (2008)
PLUMBING	International Plumbing Code (2006); 12F DCMR Code Supplement (2008)
FIRE PREVENTION	International Fire Prevention Code (2006); 12H DCMR Code Supplement (2008)
ENERGY CONSERVATION	International Energy Conservation Code (2006); 12I DCMR Code Supplement (2008)
EXISTING BUILDING	International Existing Building Code (2006); 12J DCMR Code Supplement (2008)
REQUIREMENTS FOR PERSONS WITH DISABILITIES	2010 Americans with Disabilities Act DCMR Title 12A 2003/02A, 11 ANSI 117.1 - 2003
GROSS BUILDING AREA	Vehicle Appurtenance Bay: 2,730 sq ft Living Quarters (Trailer): 2,617 sq ft Total: 5,347 sq ft
BUILDING INFORMATION:	

IBC (2006)	Description	Required / Allowable	Provided
1004.1.1	Size of Doors: The minimum width of each door opening shall provide a clear width of not less than 32 inches. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop with the door open 90 degrees. Where this section requires a minimum clear width of 32 inches and a door opening includes two door leaves without a mullion, one door leaf shall provide a clear opening width of 32 inches. The maximum width of a swinging door leaf shall be 48 inches nominal.	100 ft.	Minimum 32 in. clear door openings provided on accessible and egress routes.
1016.1	Travel distance limitations: Egress shall be so located on each story such that the maximum length of egress travel, measured from the most remote point within a story to the entrance to an exit along the natural and unobstructed path of egress travel, shall not exceed the distances given in Table 1016.1.	R-2, with Sprinkler system = 250 ft.	See A-101
CHAPTER 11	Accessibility- Provisions are provided for areas accessible to the public.		

CHAPTER 8	CHAPTER 9	CHAPTER 10
601	503	1004.1
TYPE S OF CONSTRUCTION	GENERAL BUILDING HEIGHTS AND AREAS	MEANS OF EGRESS
Type V-8	Table 503 (Type V-8 Minimum Construction)	Table 1004.1.1 maximum floor area allowances per occupant
Fire Rating: All elements = 0 hrs	Height: 2 stories Area: 7,000 sf (R-2) 13,500 sf (S-2)	Accessory storage areas, mechanical equipment room Business areas Dormitories Exercise rooms Locker rooms Parking garages Residential
Fire Rating: 0 hrs	Height: 1 story Area: 2,617 sq ft	300 gross / occ 100 gross / occ 50 gross / occ 50 gross / occ 50 gross / occ 200 gross / occ 200 gross / occ
		Sprinkler system provided.
		With sprinkler system: 0.2 - Stairways 0.15 - other 3-0" Min.
		Occupancy in use group R-2, S-2:

ZONING ANALYSIS

BUILDING INFORMATION:

401 Fairport Street, N.E. Washington, DC 20011
 FEMA: Temporary Engine Company 14
 A temporary 2,730 SF metal pre-fabricated building for Emergency vehicle.
 Four (4) converted temporary 2,617 SF trailers for FEMA's Critical and 2,477 staff services.
 Light structural, HVAC, exhaust, plumbing and electrical to make these pre-fabricated units operational.
 Access driveway and site drainage system will be provided.

PROPERTY DESCRIPTION:

ZONE: R-5-A-M
 PARCEL: Square 3781 / Lot 0805
 LOT AREA: 319,000 sq ft
 EXISTING USE: DDOT Facility
 PROPOSED USE: Temporary Engine Company 14 (Fire Station)
 USE GROUP: R-2 S-1 (Over-Street Storage)

ZONING GUIDELINES:

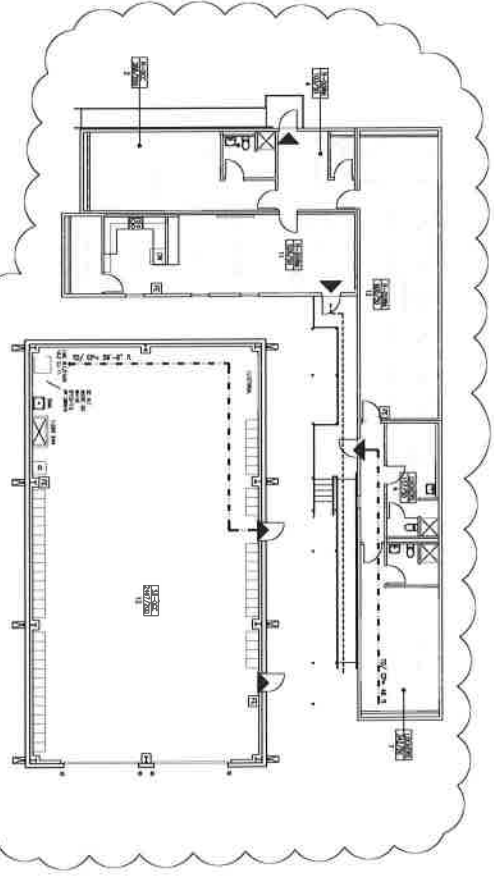
ALLOWED (MAX.)	PROVIDED
BUILDING HEIGHT:	20 ft. (1 story)
LOT OCCUPANCY %:	1.6% (new)
SETBACKS:	
FRONT:	306 ft.
REAR:	300 ft. / 200 ft.
SIDE:	

FIRE PROTECTION:

Fully Sprinklered Building

PARKING:

No New Parking Proposed



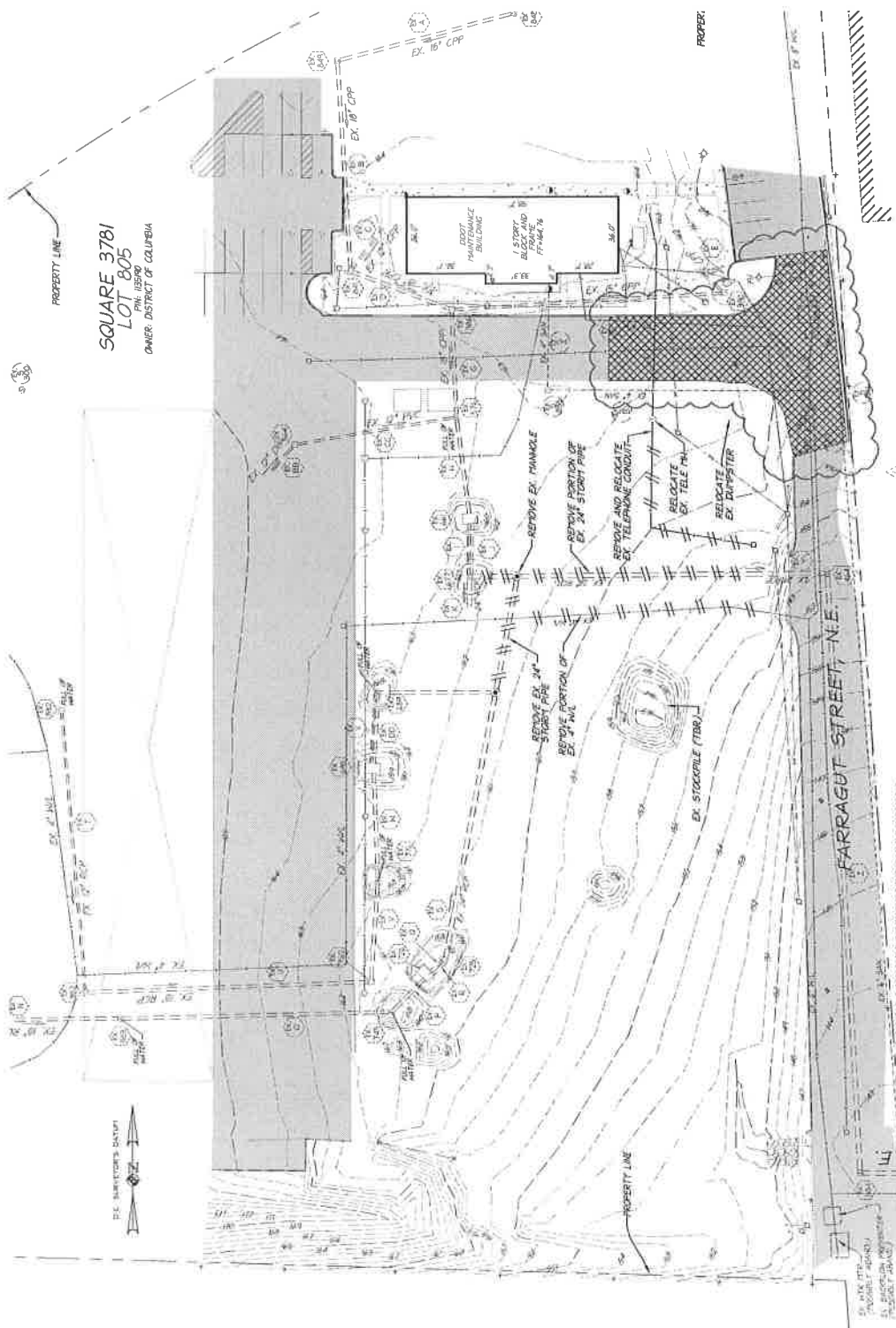
NO.	DATE	DESCRIPTION	BY	CHKD
1	03/10/11	ISSUED FOR PERMIT		
2	03/10/11	REVISION		

PROJECT NO. 1206	DATE: 03/10/11
SHEET NO. 03/101	
GOVERNMENT OF THE DISTRICT OF COLUMBIA	
DEPARTMENT OF PUBLIC SERVICES	
ENGINE HOUSE 14 - TEMPORARY FACILITY	
401 FAIRPORT ST. N.E. WASHINGTON, DC, 20011	
LS-101	
ARCHITECTURAL	
DRAWING NO.	



CIVIL
DRAWINGS

TEMPORARY
FACILITY



DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO DETERMINE LOCATION AND DEPTH OF ALL UTILITIES AND SERVICES AS REQUIRED. AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
2. CONTRACTOR SHALL REMOVE AND TRANSPORT ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM ALL DEMOLITION OPERATIONS TO A LEGAL OFF-SITE DISPOSAL FACILITY.
3. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO BID AND CONSTRUCTION. ANY DISCREPANCIES IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY IN WRITING, PRIOR TO FINAL BID AND STARTING ANY MARK.
4. CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS TO ENSURE PROPER CONNECTIONS WITH PROPOSED UTILITIES.
5. CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF DEMOLITION WORK. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR. CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
6. CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS TO ENSURE PROPER CONNECTIONS WITH PROPOSED UTILITIES.
7. IN AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE CARE TO PROTECT ALL UTILITIES FOUND DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF ANY CONTRACTOR. CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY OF ANY UTILITY FINDINGS WHICH DEVIATE FROM THE CONDITIONS SHOWN.
8. CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL EXISTING UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS TO ENSURE PROPER CONNECTIONS WITH PROPOSED UTILITIES.

DEMOLITION LEGEND

- TBR RECYCLABLES SITE FEATURE TO BE REMOVED
- EXISTING UTILITY LINE TO BE REMOVED
- [Cross-hatched box] EXISTING ABOVE GROUND SECTION TO BE REMOVED AND RE-PLACED WITH NEW UTILITY AS SHOWN ON SHEET C2.01

ENGINEERING SCALE
 1" = 20'
 ALL CONSTRUCTION SHALL COMPLY TO THE DISTRICT OF COLUMBIA, DC, REGULATIONS AND STANDARDS

christopher consultants
 INC.
 7022 WOODLEY BLVD., SUITE 200
 WASHINGTON, DC 20012
 TEL: 202.331.1234 FAX: 202.331.1235
 WWW.CHRCR.COM

PROJECT NO. 181010701
 SHEET NO. C2.01

DATE: 05/18/2011
 DESIGNER: ROBERT A. BENTLEY
 CHECKER: ROBERT A. BENTLEY

SQUARE 3781
 LOT 805
 F.W. HELDOR
 OWNER: F.W. HELDOR
 OWNER: F.W. HELDOR

EMERSON STREET, N.E.
 60' WIDE
 EX. 12" SW (UNREV)
 EX. 8" WEST SIDE (UNREV)
 EX. 12" SW (UNREV)

RECORD	DATE	BY	DESCRIPTION
DESIGNED	10/18/10	RA	UPDATE PER ISSUED FOR
CHECKED	07/12/10	RA	PERMIT SET
DATE	07/12/10	RA	DESCRIPTION
NO.	1	RA	DESCRIPTION

CERTIFICATION

DEMOLITION PLAN

ENGINEER NO. 0000000000

ENGINEER NAME: ROBERT A. BENTLEY

PROJECT NO. 181010701

DATE: 05/18/2011

PROJECT NO. 181010701

PROJECT NAME: ENGINEERING

PROJECT ADDRESS: ENGINEERING

PROJECT CITY: ENGINEERING

PROJECT STATE: ENGINEERING

PROJECT ZIP: ENGINEERING

PROJECT COUNTY: ENGINEERING

PROJECT DISTRICT: ENGINEERING

PROJECT WARD: ENGINEERING

PROJECT CONDEMNATION NO.: ENGINEERING

PROJECT PERMIT NO.: ENGINEERING

PROJECT PLAN NO.: ENGINEERING

PROJECT SHEET NO.: ENGINEERING

PROJECT SCALE: ENGINEERING

PROJECT DRAWING NO.: ENGINEERING

PROJECT DRAWING DATE: ENGINEERING

PROJECT DRAWING BY: ENGINEERING

PROJECT DRAWING CHECKER: ENGINEERING

PROJECT DRAWING DATE: ENGINEERING

PROJECT DRAWING BY: ENGINEERING

PROJECT DRAWING CHECKER: ENGINEERING

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PROJECT DRAWING CHECKER: ENGINEERING

PROJECT DRAWING DATE: ENGINEERING

PROJECT DRAWING BY: ENGINEERING

PROJECT DRAWING CHECKER: ENGINEERING

C2.01

ENGINE HOUSE #4, TEMPORARY FACILITY
 SQUARE 3781, LOT 805
 401 FARRAGUT ST., N.E.
 WASHINGTON, DC, 20011

SOLO ARCHITECTS
 1100 K STREET, N.W.
 WASHINGTON, DC 20004
 TEL: 202.331.1234 FAX: 202.331.1235

GOVERNMENT OF THE DISTRICT OF COLUMBIA

DEPARTMENT OF GENERAL SERVICES

PROJECT NO. 181010701

PROJECT NAME: ENGINEERING

PROJECT ADDRESS: ENGINEERING

PROJECT CITY: ENGINEERING

PROJECT STATE: ENGINEERING

PROJECT ZIP: ENGINEERING

PROJECT COUNTY: ENGINEERING

PROJECT DISTRICT: ENGINEERING

PROJECT WARD: ENGINEERING

PROJECT CONDEMNATION NO.: ENGINEERING

PROJECT PERMIT NO.: ENGINEERING

PROJECT PLAN NO.: ENGINEERING

PROJECT SHEET NO.: ENGINEERING

PROJECT SCALE: ENGINEERING

PROJECT DRAWING NO.: ENGINEERING

PROJECT DRAWING DATE: ENGINEERING

PROJECT DRAWING BY: ENGINEERING

PROJECT DRAWING CHECKER: ENGINEERING

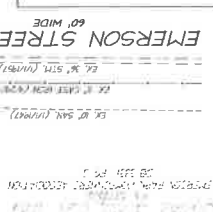
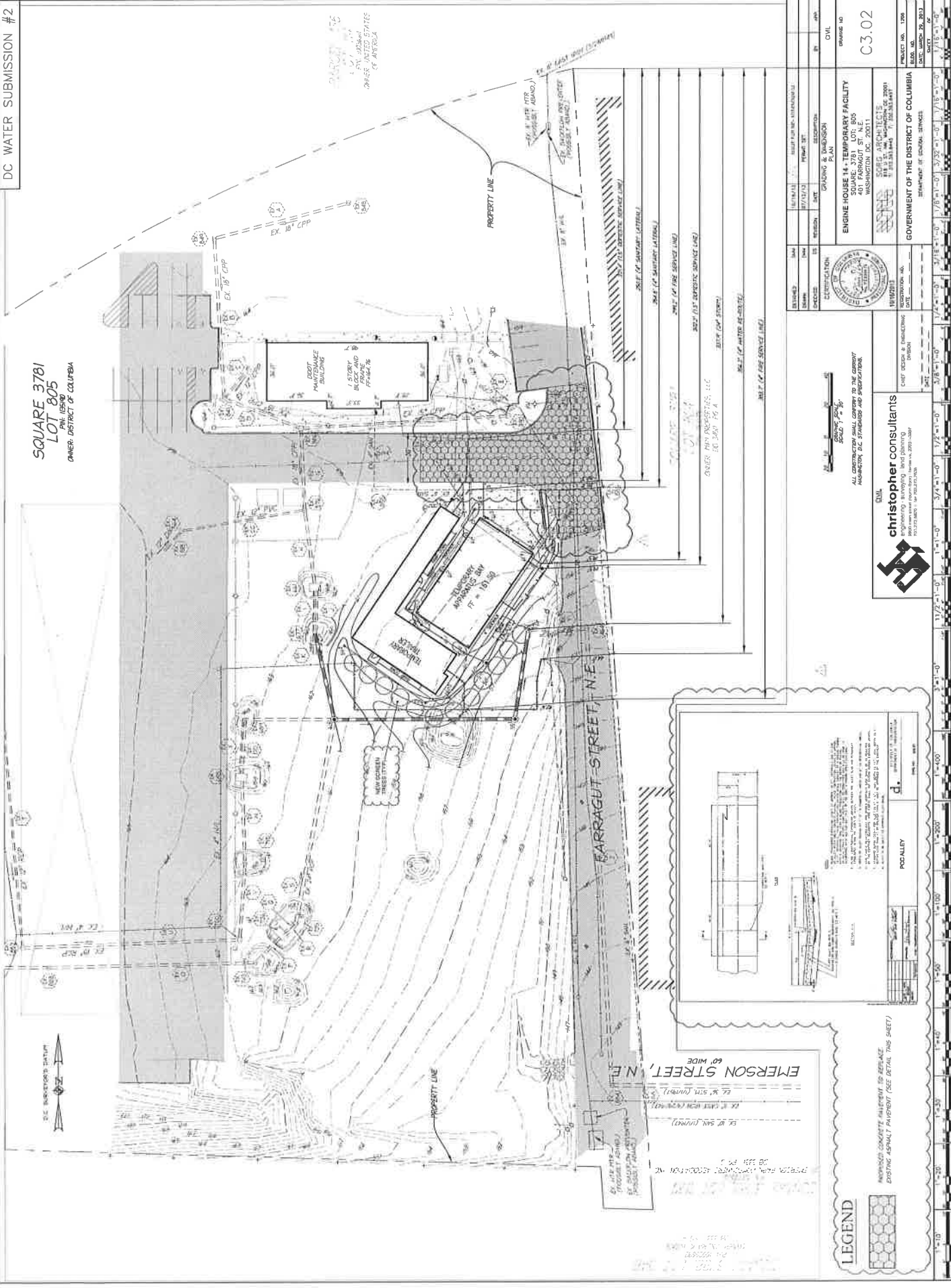
PROJECT DRAWING DATE: ENGINEERING

PROJECT DRAWING BY: ENGINEERING

PROJECT DRAWING CHECKER: ENGINEERING

SQUARE 3781
LOT 805
PIN 15890
OWNER: DISTRICT OF COLUMBIA

OWNER: UNITED STATES
OF AMERICA



LEGEND

	CONCRETE CURB
	COMPACTED SUBGRADE
	CONCRETE SIDEWALK
	COMPACTED SUBGRADE

NOTES:

- SEE ALL NOTES ON SHEET C3.01.
- SEE ALL NOTES ON SHEET C3.02.
- SEE ALL NOTES ON SHEET C3.03.
- SEE ALL NOTES ON SHEET C3.04.
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- SEE ALL NOTES ON SHEET C3.99.
- SEE ALL NOTES ON SHEET C3.100.

christopher consultants
ENGINEERING SURVEYING LAND PLANNING
1100 NEW YORK AVENUE, N.W.
WASHINGTON, D.C. 20004
TEL: 202.462.1000
WWW.CHRCR.COM

DCM
CHIEF DESIGN & DRAINAGE DESIGN
PROJECT NO. 15890
SHEET NO. 303
DATE 1/15/10

ALL CONSTRUCTION SHALL CONFORM TO THE DISTRICT OF COLUMBIA ENGINEERING REGULATIONS AND SPECIFICATIONS.
SIGNED: [Signature]
DATE: 1/15/10

DATE	BY	REVISION	DESCRIPTION
10/14/10	10/14/10	1	ISSUE FOR PERMITS
07/17/10	07/17/10	2	PERMIT SET
06/23/10	06/23/10	3	ISSUE FOR PERMITS
06/23/10	06/23/10	4	ISSUE FOR PERMITS
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06/23/10	06/23/10	95	ISSUE FOR PERMITS
06/23/10	06/23/10	96	ISSUE FOR PERMITS
06/23/10	06/23/10	97	ISSUE FOR PERMITS
06/23/10	06/23/10	98	ISSUE FOR PERMITS
06/23/10	06/23/10	99	ISSUE FOR PERMITS
06/23/10	06/23/10	100	ISSUE FOR PERMITS

ENGINE HOUSE 14, TEMPORARY FACILITY
SQUARE 3781 LOT 805
401 BARRAGUT ST. N.E.
WASHINGTON, DC 20011

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF PUBLIC WORKS

PROJECT NO. 15890
SHEET NO. 303
DATE 1/15/10

MECHANICAL,
ENGINEERING, &
PLUMBING
DRAWINGS

TEMPORARY
FACILITY

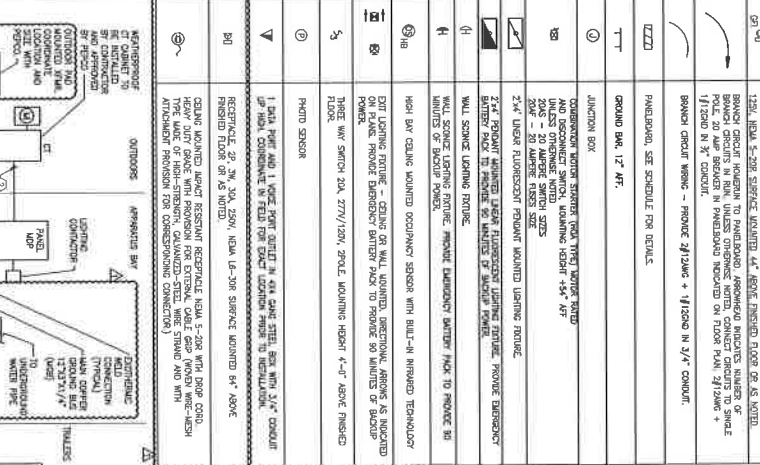
ABBREVIATIONS

Table with columns for symbol and description. Includes symbols for motor, approach, American wire gauge, conductor, ceiling, etc.

GENERAL NOTES

- 1. INSTALL PANELS AND WIRING ALL ELECTRICAL SYMBOLS AS SHOWN AND LOCATIONS SHOWN. ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
2. ALL ELECTRICAL SYMBOLS, DEVICES, EQUIPMENT, SERVICES AND SCHEDULES NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE SHOWN ON THE DRAWINGS.
3. APPLICABLE CODES, REGULATIONS AND PRACTICES ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
4. DRAWINGS ARE DIMENSIONAL AND REPRESENT THE INTENT OF THE PLANS AND SPECIFICATIONS. THE FIELD CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND APPROVED FROM OTHER MANUFACTURERS THAT MATCH OR EXCEEDS THE CHARACTERISTICS OF THE MATERIALS TO BE USED. APPROVALS SHALL BE OBTAINED FROM THE OWNER'S REPRESENTATIVE BEFORE ANY FIELD WORK IS BEGUN.
5. CONSULT PLANS AND DETAILS FOR TYPES OF CONSTRUCTION, FIELD ROAD, FINISHES, FINISHED FLOOR FINISHES, DIMENSIONS AND FINISHES. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED.
6. CORROSION RESISTANT MATERIALS SHALL BE USED FOR ALL WIRING IN CONTACT WITH WATER OR SOIL.
7. MATERIALS AND SUBSTITUTIONS THE CONTRACTOR SHALL SUBMIT LIST OF ALL MATERIALS AND SUBSTITUTIONS TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.
8. WORKING DIMENSIONS SHALL BE SHOWN ON THE DRAWINGS. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED.
9. ALL LIGHT FIXTURES SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
10. ALL LIGHT FIXTURES SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS. ALL LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
11. CONDUITS, ALL CONDUITS SHALL BE NEW AND SHALL BE CUT TO EXACT LENGTHS TO SET THE FIELD CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND APPROVED FROM OTHER MANUFACTURERS THAT MATCH OR EXCEEDS THE CHARACTERISTICS OF THE MATERIALS TO BE USED. APPROVALS SHALL BE OBTAINED FROM THE OWNER'S REPRESENTATIVE BEFORE ANY FIELD WORK IS BEGUN.
12. THE FIELD CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND APPROVED FROM OTHER MANUFACTURERS THAT MATCH OR EXCEEDS THE CHARACTERISTICS OF THE MATERIALS TO BE USED. APPROVALS SHALL BE OBTAINED FROM THE OWNER'S REPRESENTATIVE BEFORE ANY FIELD WORK IS BEGUN.
13. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
14. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
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23. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.
24. CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL ORDINANCES.

SYMBOLS



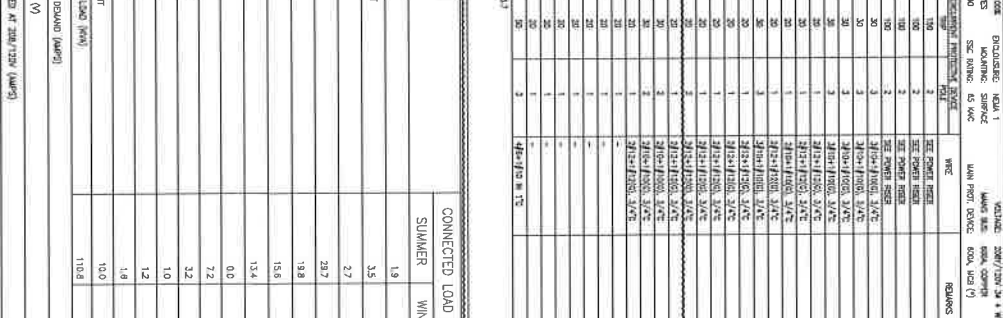
FEEDER SCHEDULE

Table with columns: No, Description, Ampacity, Notes. Lists feeders for various rooms and systems.

DESCRIPTION

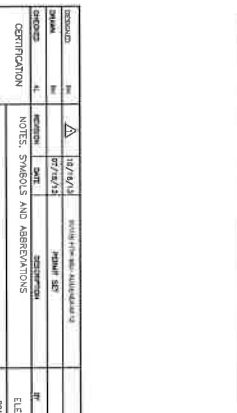
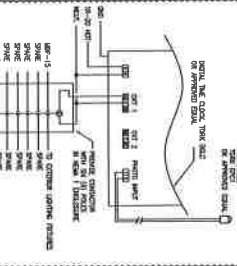
Table with columns: Description, Connected Load (KVA), Summer, Winter. Summarizes electrical load data.

ELECTRICAL RISER DIAGRAM



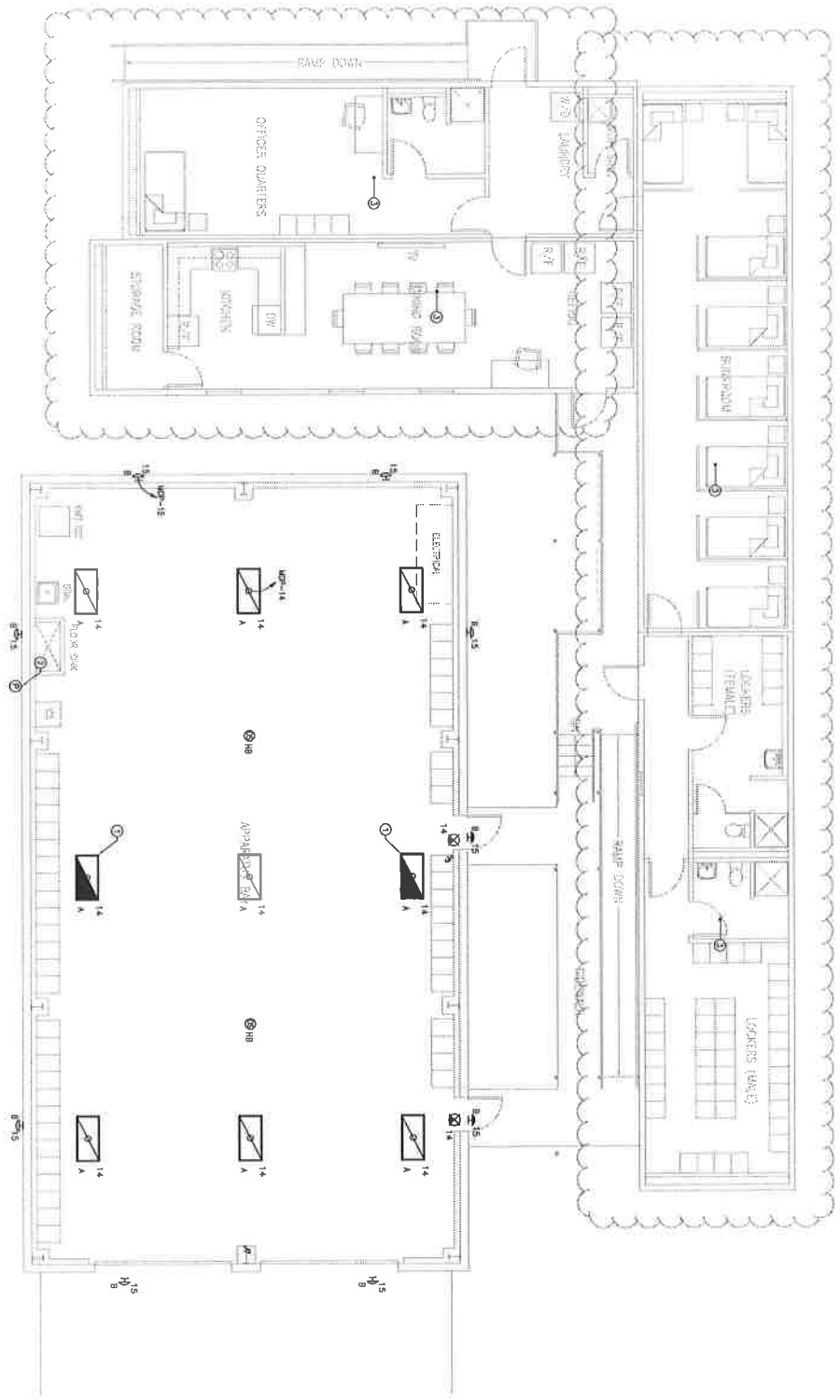
LIGHT FIXTURE SCHEDULE

Table with columns: Type, Manufacturer or Approved Equal, Catalog No., Description, Lighting, Qty., Type, Color, VOLT, Remarks. Lists lighting fixtures for the project.



- KEY NOTES
1. PROVIDE ENERGY STORAGE PACK TO PROVIDE 90 MINUTES OF BACKUP POWER FOR EMERGENCY LIGHTING FIXTURES (SEE LIGHTING PLAN FOR EMERGENCY LIGHTING FIXTURE LOCATIONS).
2. FIXTURES MOUNTED 50 FT FROM BOTTOM OF FRAME IS 1'-4" AFF.

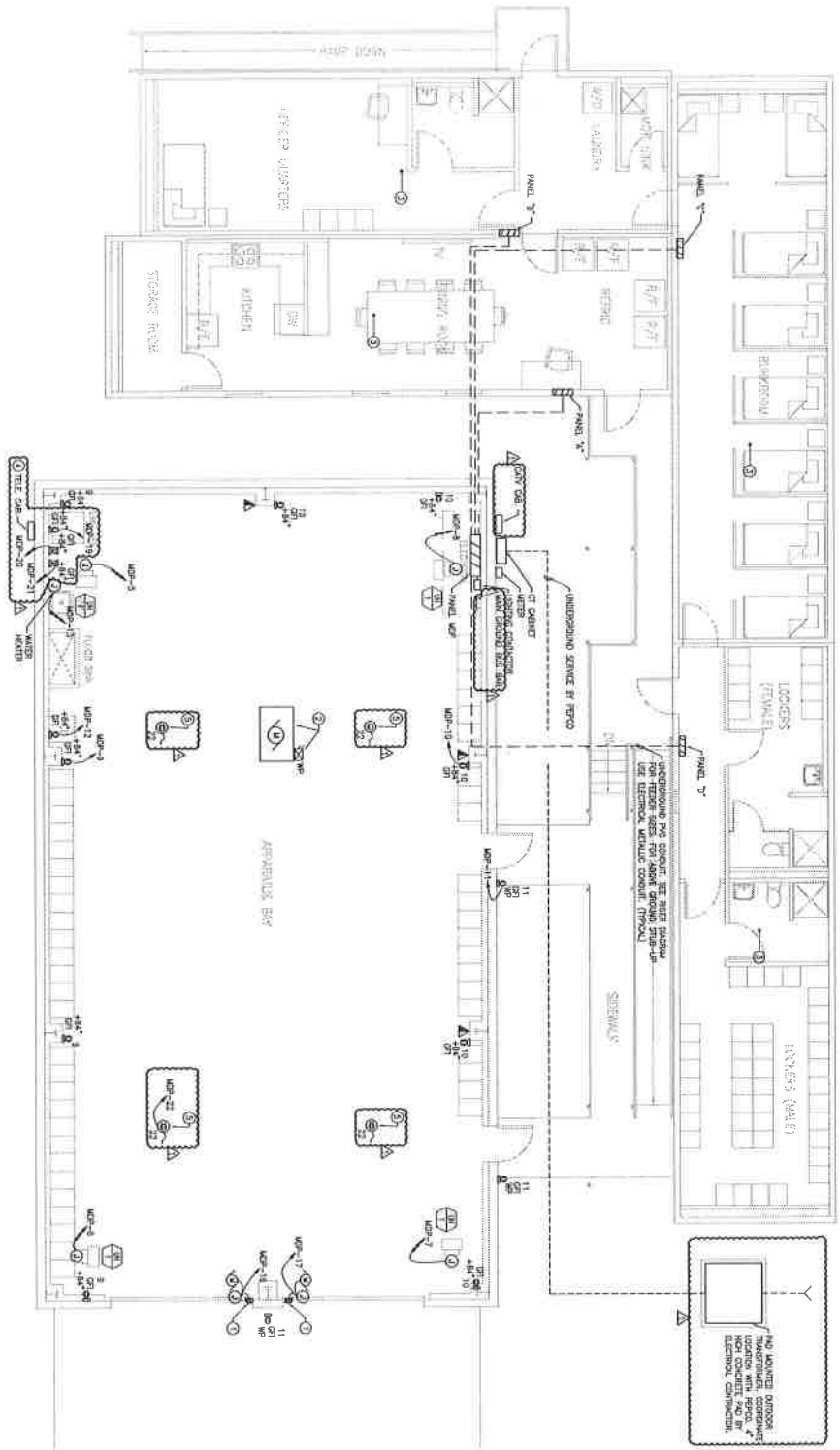
Project information including: SORG ARCHITECTS, ENGINE HOUSE 14 - TEMPORARY FACILITY, GOVERNMENT OF THE DISTRICT OF COLUMBIA, and various dates and scales.



FLOOR PLAN - LIGHTING NEW WORK
 SCALE: 1/8" = 1'-0"

- NOTES:
- ① EMERGENCY LIGHT FIXTURES TO BE CONTROLLED BY THE EMERGENCY LIGHTING SYSTEM AND NOT BY THE MAIN POWER.
 - ② CORNER PHOTO SENSOR TO DETECT LIGHT FIXTURES. SEE DETAIL ON E-001.
 - ③ A FULL SPECIAL ORDER IS TO BE PROVIDED BY TRADE MANUFACTURER.

REGISTRATION NO. ENGINEER'S SEAL DATE: 11/15/2011	PROJECT NO. 1359 DATE: 11/15/2011
CLIENT: GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES	PROJECT NAME: ENGINE HOUSE 14 - TEMPORARY FACILITY
ARCHITECT: SONG ARCHITECTS 401 PARKVIEW ST., N.E. WASHINGTON, DC, 20011 P: 202.556.1000 F: 202.556.1001	DRAWING NO. E-101
DESIGNER: DATE:	DISCIPLINE: ELECTRICAL
CHECKED: DATE:	SCALE:
CERTIFICATION: FLOOR PLAN - LIGHTING NEW WORK	SHEET NO. 1 OF 1



FLOOR PLAN - POWER NEW WORK
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

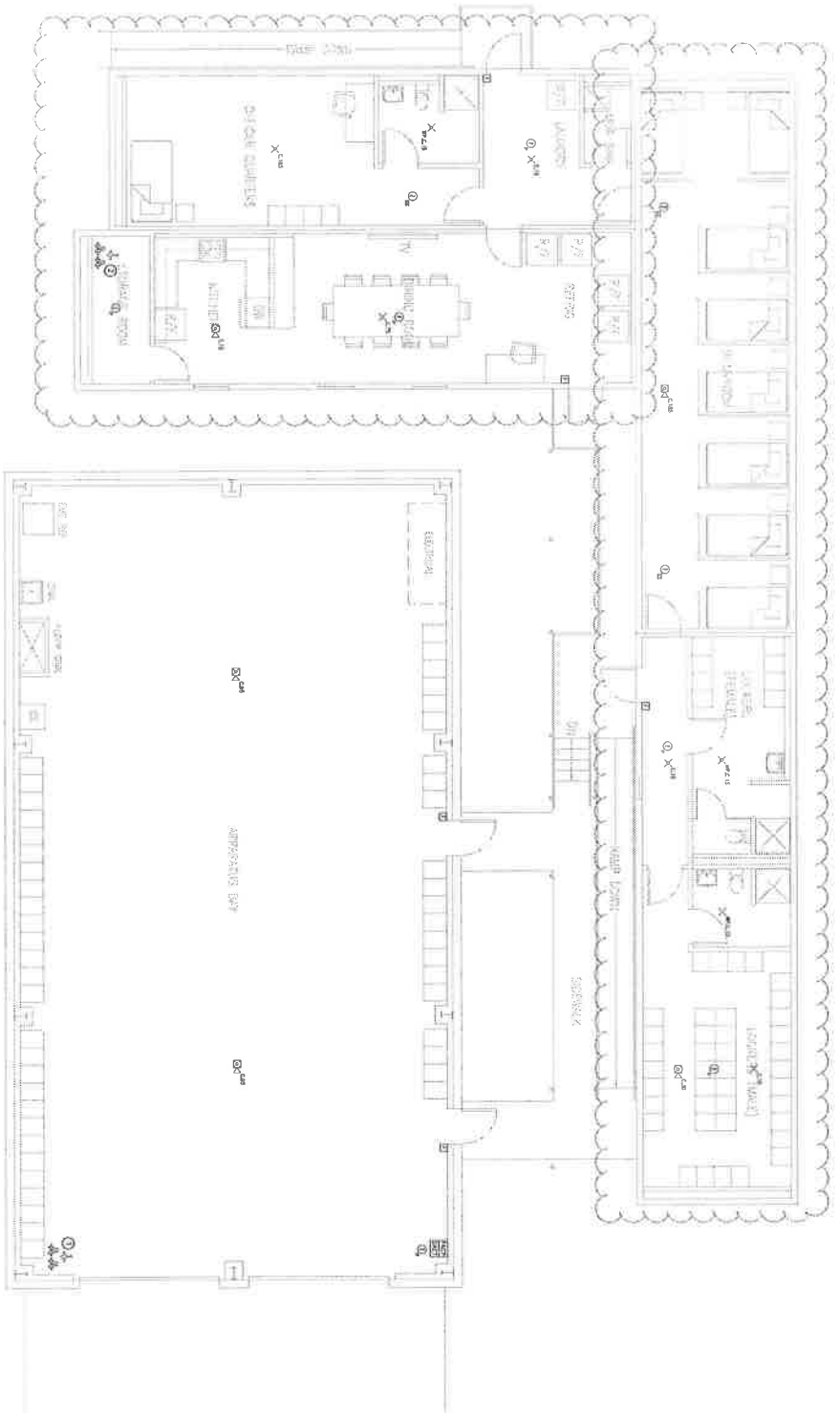
1. CONSULTATION TO COORDINATE WITH THE OWNER FOR THE INSTALLATION AND CONNECTION REQUIREMENTS (PERMITS).

NOTES:

1. CONSULTATION WITH SUPPLIER AND DISCONNECT SWITCH FOR ROLL-UP DOORS, 200, 400V, FUSED AT 200 A, INCLUSIVE.
2. PROVIDE POWER CONNECTION TO CHASSET PANEL ON THE ROOF. ALSO, PROVIDE CONSULTATION WITH SUPPLIER WITH HAND-OPERATING AND DISCONNECT SWITCHES WITH PARALLEL SCHEDULE. SEE DRAWING E-1011.
3. A BUS SYSTEM DESIGN IS TO BE PROVIDED BY TENDER MANUFACTURER.
4. COORDINATE EXISTING LOCATION OF DC-117 CABINET WITH THE OWNER.
5. LOCATE RESISTANT REFERENCE (UNDER ROOM CEILING AND NON REMEDIATED) SUPPLIER WITH OVERLAP RESISTANCE.

NO UNLATCHED DOOR/SLIDING WINDOW/SCREENED GLASS PARTITION LOCATED WITH PANEL. A ELECTRICAL CONNECTION SHALL BE MADE TO THE ELECTRICAL PANEL.

DESIGNED	DATE	BY	SCALE	PROJECT NO.
DRAWN	DATE	BY	SCALE	DATE PLOTTED
CHECKED	DATE	BY	SCALE	DATE PLOTTED
CERTIFICATION	DATE	BY	SCALE	DATE PLOTTED
<p>ENGINE HOUSE 14 - TEMPORARY FACILITY</p> <p>401 PRODUCE ST. NE WASHINGTON DC, 20011</p> <p>SONG ARCHITECTS R. 2002 2ND FLOOR 2002 2ND FLOOR</p> <p>GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES</p> <p>PROJECT NO. 1304 DATE: MARCH 28, 2013 ELECTRICAL E-102</p>				



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



- FIRE ALARM NEW WORK KEY NOTES:**
- ① INTERSPAC MOUNTS TO MONITOR BACULUM PRECEDENT WAFER SWITCHES AND PULL-ARMOUNT WIRELOAD SWITCH FOR APPARATUS AND SPOKEHEAD STAIRS.
 - ② INTERSPAC MOUNTS TO MONITOR BACULUM PRECEDENT WAFER SWITCHES AND PULL-ARMOUNT WIRELOAD SWITCH FOR PULLER AND SPOKEHEAD STAIRS. (COMMON TRN, OCCUPANT COMMON OF BLDGS)



REVISION NO.	DATE	DESCRIPTION
1	01/11/21	ISSUE FOR BIDDING
2	01/11/21	ISSUE FOR BIDDING
3	01/11/21	ISSUE FOR BIDDING
4	01/11/21	ISSUE FOR BIDDING
5	01/11/21	ISSUE FOR BIDDING
6	01/11/21	ISSUE FOR BIDDING
7	01/11/21	ISSUE FOR BIDDING
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100	01/11/21	ISSUE FOR BIDDING

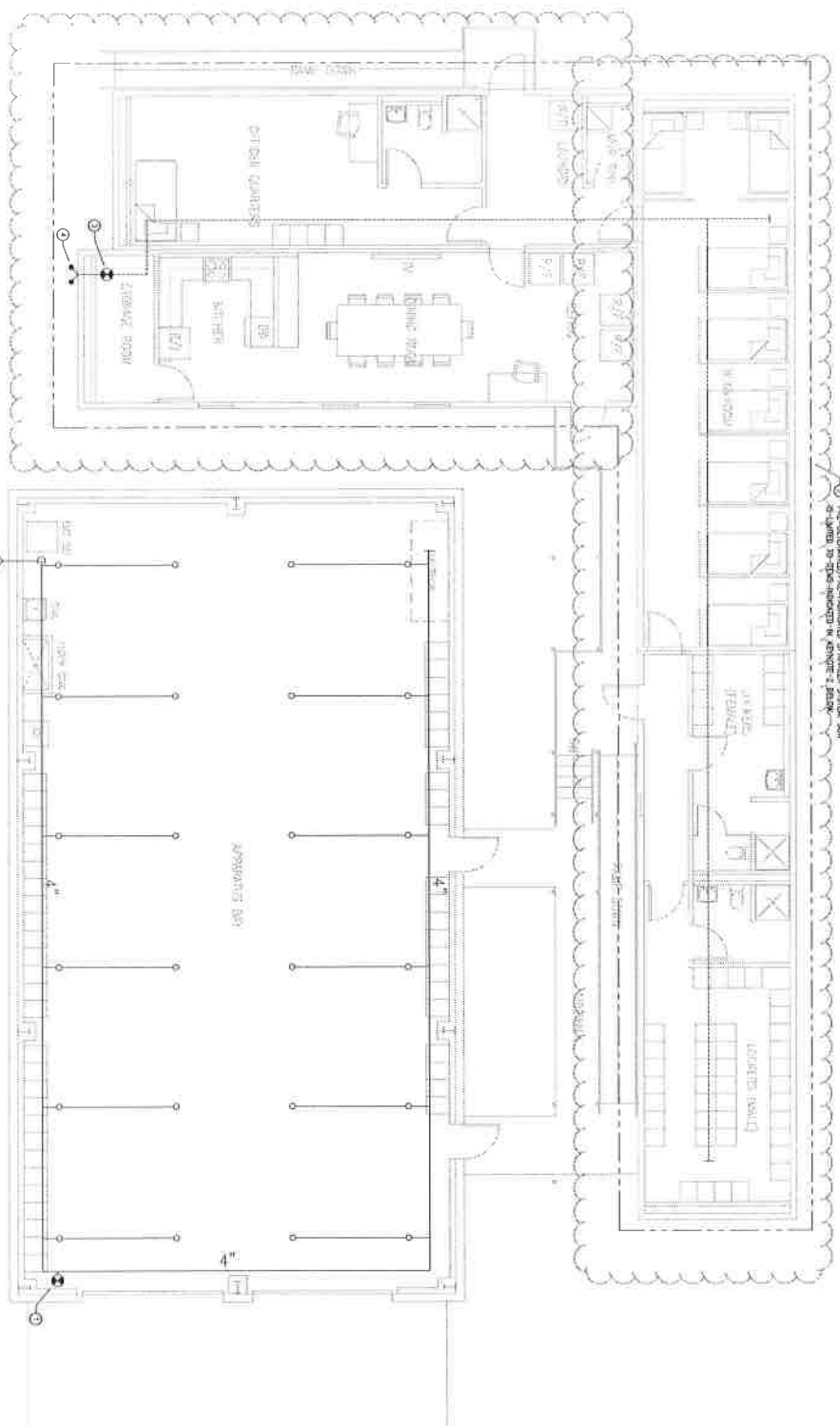
PROJECT NO. 108
SHEET NO. 101

ENGINE HOUSE 14, TEMPORARY FACILITY
WASHINGTON, DC 20011

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF GENERAL SERVICES

SONG ARCHITECTS
1400 K STREET, N.W.
WASHINGTON, DC 20004

THE UNBUILT PART IS SHOWN BY A
 DASHED LINE. THE UNBUILT PART IS
 TO BE CONSTRUCTED IN ACCORDANCE WITH THE
 REQUIREMENTS OF THE BUILDING CODE.



FIRE PROTECTION NEW WORK KEY NOTES:

- ① INSTALL NEW VERTICALLY-MOUNTED BROUQON PROTECTOR AND REAR-MOUNTED WATERFLOW SWITCH, COORDINATE WITH LOCATION OF EXISTING FIRE SERVICE.
- ② THIS BUILDING IS A WOOD-FRAME BUILDING WITH A BAL-IN-FIRE SPRINKLER SYSTEM. THE SCOPE OF WORK IN THIS BUILDING IS LIMITED TO:
 - INSTALL A NEW VERTICALLY-MOUNTED BROUQON PROTECTOR AND WATERFLOW SWITCH.
 - CONDUCT FIRE-TESTED SPRINKLER SYSTEM TO NEW BACKFLOW PREVENTER AND INDOOR WATER SUPPLY.
 - CONNECT SPRINKLER PIPING AT EACH FLOOR MODULE TO EXISTING WATER SUPPLY.
 - PERFORM ALL PRESSURIZING AND ACCEPTANCE TESTING.
- ③ INSTALL NEW VERTICALLY-MOUNTED BROUQON PROTECTOR AND REAR-MOUNTED WATERFLOW SWITCH, COORDINATE WITH LOCATION OF EXISTING FIRE SERVICE.
- ④ INSTALL FIRE WITH CHECK VALVE AND AUTOMATIC SHUT-OFFS.

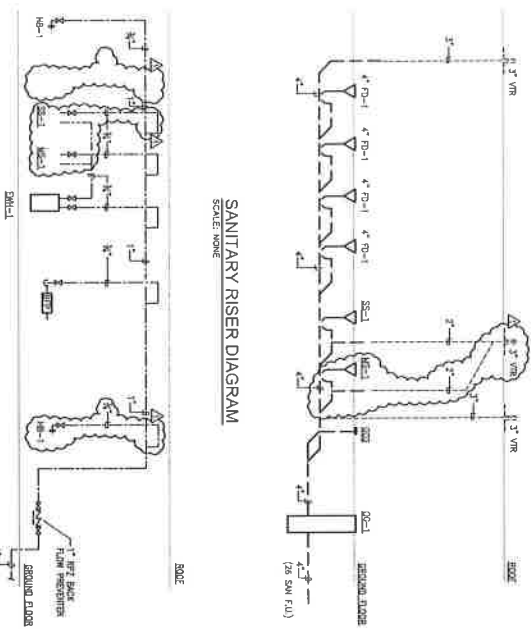
FIRST FLOOR PLAN



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



PROJECT NO.	FP-101
DATE	10/15/2011
PROJECT NAME	GOVERNMENT OF THE DISTRICT OF COLUMBIA
PROJECT ADDRESS	1100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20540
OWNER	GOVERNMENT OF THE DISTRICT OF COLUMBIA
DESIGNER	SONG ARCHITECTS
ARCHITECT	SONG ARCHITECTS
ENGINEER	SONG ARCHITECTS
DATE	10/15/2011
PROJECT NO.	FP-101
PROJECT NAME	GOVERNMENT OF THE DISTRICT OF COLUMBIA
PROJECT ADDRESS	1100 PENNSYLVANIA AVENUE, N.W. WASHINGTON, DC 20540
OWNER	GOVERNMENT OF THE DISTRICT OF COLUMBIA
DESIGNER	SONG ARCHITECTS
ARCHITECT	SONG ARCHITECTS
ENGINEER	SONG ARCHITECTS
DATE	10/15/2011



WATER RISER DIAGRAM
SCALE: NONE

SYMBOLS	
—	DOMESTIC COLD WATER PIPING
---	SANITARY WASTE PIPING (UNDER SLAB)
ABBREVIATIONS	
AF	APART FLOOR FLOOR
CO	CLOSET
DA	DAUGHTER
DCW	DOMESTIC COLD WATER
EM	ELECTRIC WATER HEATER
FD	FLOOR CLEANOUT
FD	FLOOR DRAIN
FD	FLOOR UNIT
FD	SPACE CLEANOUT
HD	HOSE BIB
HE	HEAT EXCHANGER
HE	HEATED HEAT EXCHANGER
SM	SMOKESTACK
SP	SPRINKLER
V	VENT THROUGH ROOF
V	VENT
W	WALL CLEANOUT
WC	W.C.

- GENERAL NOTES**
1. SIZES, FINISHES, ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES AND SCHEDULES SUPERVISION AND INSPECTION SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.
 2. ACCESS, LADDERS, & STEPS, SHALL BE PROVIDED FOR ALL NECESSARY FINISHES AND PROTECTIVE WORK.
 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ANY REGULATIONS SET FORTH IN THE PROJECT SPECIFICATIONS, PERMITS, ORDINANCES AND STANDARDS ON THIS PROJECT WHICH ARE NOT LIMITED TO THE FOLLOWING:
 - A. ICC INTERNATIONAL BUILDING CODE 2006
 - B. ICC INTERNATIONAL MECHANICAL CODE 2006
 - C. ICC INTERNATIONAL PLUMBING CODE 2006
 - D. ICC INTERNATIONAL ENERGY CONSERVATION CODE 2006
 - E. ASHRAE 90.1-2005
 - F. IFC 2006
 - G. DISTRICT OF COLUMBIA BUILDING CODE SUPPLEMENT OF 2008
 4. MATERIALS, MANUFACTURERS AND MODEL NUMBERS ARE LISTED THROUGHOUT THESE DRAWINGS. EQUIPMENT FROM OTHER MANUFACTURERS THAT MATCH OR EXCEEDS THE CHARACTERISTICS OF THOSE LISTED SHALL BE ACCEPTABLE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE.
 5. SUBMITTALS AND INSTALLATION: CONTRACTOR SHALL PROVIDE PRODUCT INFORMATION, SHOP DRAWINGS, AND INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT AND MATERIALS. ALL SUBMITTALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING. SUBSTITUTE MATERIAL SHALL BE COMPARABLE WITH OTHER COMPONENTS OF THE SYSTEM OF THE AREA. RESISTANCE OF EQUIPMENT, PIPING, FINISHES, ETC. SHALL BE AS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL CONTROL TO THE LATEST TRADE PRACTICES, REFER TO APPROPRIATE DRAWINGS TO VERIFY EXACT LOCATION OF EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED.
 6. FINISHES AND MATERIALS: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED.
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 10. FINISHES AND MATERIALS: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EQUIPMENT TO BE INSTALLED.

RESOLUTION	FEATURE	DESCRIPTION	MANUFACTURER	MODEL	PIPE SIZE	
					OD	INCH
RS-1	SERVICE SINK	24"OD-11" DIA. ENAMELED CAST IRON SINK	JANCOB SINKS	JMS-008	2 1/2"	2"
US-1	FLOOR WIP SINK	24"OD-11" DIA. ENAMELED CAST IRON SINK	JANCOB SINKS	JMS-008	2 1/2"	2"
EM-1	ELECTRIC WATER HEATER, 40 GPM	40 GPM ELECTRIC WATER HEATER, 120 VAC, 12.0 KW	AMERICAN WATER HEATERS	AWH-40	1 1/2"	2"
FD-1	FLOOR DRAIN	4" DIA. BRASS FLOOR DRAIN	BRASS FLOOR DRAINS	BF-4"	4"	4"
OC-1	OUTLET INTERCEPTOR	4" DIA. BRASS OUTLET INTERCEPTOR	BRASS OUTLET INTERCEPTORS	OIC-4"	4"	4"
HS-1	HOT WATER SINK	24"OD-11" DIA. ENAMELED CAST IRON SINK	JANCOB SINKS	JMS-008	2 1/2"	2"

PLUMBING FIXTURE SCHEDULE

11. **PLUMBING MATERIALS:** ALL PLUMBING MATERIALS SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

12. **PIPE:** ALL PIPE SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

13. **VALVES:** ALL VALVES SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

14. **FLANGES:** ALL FLANGES SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

15. **CONNECTIONS:** ALL CONNECTIONS SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

16. **WELDS:** ALL WELDS SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

17. **INSULATION:** ALL INSULATION SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

18. **PAINTS:** ALL PAINTS SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

19. **FINISHES:** ALL FINISHES SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

20. **TESTING:** ALL TESTING SHALL BE AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS.

GOVERNMENT OF THE DISTRICT OF COLUMBIA

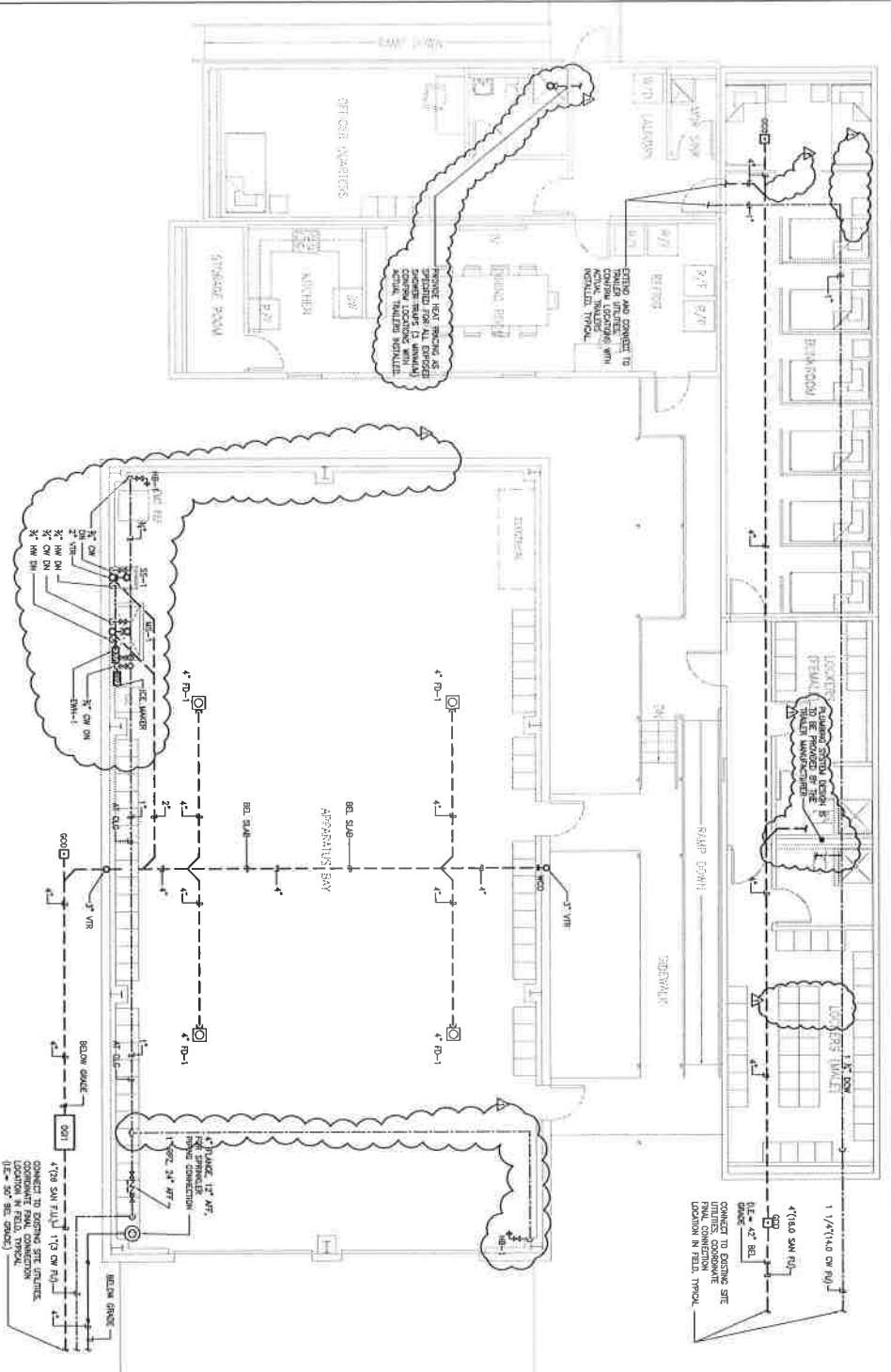
ENGINE HOUSE 14 - TEMPORARY FACILITY

401 PARKOURT ST. N.E.
WASHINGTON DC, 20011

SPORG ARCHITECTS
1100 15TH ST. N.W.
WASHINGTON DC, 20005

PLUMBING

DATE: 10/1/11
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]



FLOOR PLAN - PLUMBING NEW WORK
 SCALE: 1/8" = 1'-0"

GENERAL NOTE:
 SET DRAWING P-001 FOR RSEP
 DWG/PANS

DESIGNED BY	DATE	BY	DATE
DRAWN BY	DATE	BY	DATE
CHECKED BY	DATE	BY	DATE
CERTIFICATION	DATE	BY	DATE
ENGINE HOUSE 14 - TEMPORARY FACILITY PLUMBING			
PROJECT NO. 204 DATE: MARCH 29, 2013			

REGISTRATION NO. **P**
 PROJECT NO. 204
 DATE: MARCH 29, 2013
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF WASHINGTON
 LICENSE NO. 14000
 EXPIRES 12/31/2015
 REGISTERED PROFESSIONAL ARCHITECT
 STATE OF WASHINGTON
 LICENSE NO. 20000
 EXPIRES 12/31/2015
 REGISTERED PROFESSIONAL MECHANICAL ENGINEER
 STATE OF WASHINGTON
 LICENSE NO. 10000
 EXPIRES 12/31/2015

SPECIFICATIONS

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SPECIFICATIONS

ISSUE FOR BID
Addendum 02 - 10/17/13

07 OCTOBER 2013

**MODERNIZATION of FEMS ENGINE HOUSE #14
AND TEMPORARY FACILITY**

4801 North Capitol Street, NE, WASHINGTON, DC
401 Farragut Street, NE, WASHINGTON, DC

FOR:

Government of the District of Columbia
Capital Construction
Department of General Services
1250 U Street, NW
Washington DC 20009

PREPARED BY:



Christopher Consultants
Civil/ Landscape

SKA Structural Engineers, PLLC
Structural Engineering

JVP Engineers P.C.
Mechanical/ Electrical/ Plumbing

ECS Mid-Atlantic
Geotechnical and Hazmat

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01-2600	CONTRACT MODIFICATIONS	09/03/13
01-2900	PAYMENT PROCEDURES	09/03/13
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01-3200	CONSTRUCTION PROGRESS DOCUMENTATION	09/03/13
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01-3500	SPECIAL PROCEDURES	09/03/13
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**Modernization and Temp. Facility
FEMS Engine House #14**

Govt. of the District of Columbia
Dept. of General Services

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040120.64	BRICK MASONRY REPOINTING	09/03/13
042113	BRICK MASONRY	09/03/13
042200	CONCRETE UNIT MASONRY	09/03/13

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END OF TOC

SECTION 072500

WEATHER BARRIERS

SECTION 072500 - WEATHER BARRIERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Sheet applied, vapor permeable moisture barrier stucco wrap on sheathing behind plaster.
2. Flexible flashing.

B. Related Requirements:

1. Section 061600 "Sheathing" for sheathing joint and penetration treatment.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. For building wrap, include data on air and water-vapor permeance based on testing according to referenced standards.

PART 2 - PRODUCTS

2.1 WATER-RESISTIVE, VAPOR PERMEABLE AIR BARRIER

A. Building Wrap: ASTM E 1677, Type I air barrier; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E 84; UV stabilized; and acceptable to authorities having jurisdiction.

1. **Products:** Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dow Chemical Company (The); Styrofoam Weathermate Plus Brand Housewrap.
 - b. DuPont (E. I. du Pont de Nemours and Company); Tyvek CommercialWrap or StuccoWrap (at stucco conditions).
 - c. Ludlow Coated Products; Barricade Building Wrap.
 - d. Pactiv, Inc.; GreenGuard Ultra Wrap.
 - e. Raven Industries Inc.; Fortress Pro Weather Protective Barrier.
 - f. Reemay, Inc.; Typar HouseWrap.
2. Water-Vapor Permeance: Not less than 675 ng/Pa x s x sq. m per ASTM E 96/E 96M, Desiccant Method (Procedure A).
3. Air Penetration: no less than 0.004 cfm/ft² at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
4. Allowable UV Exposure Time: Not less than three months.

- B. Building-Wrap Tape: Pressure-sensitive plastic tape recommended by building-wrap manufacturer for sealing joints and penetrations in building wrap.

2.2 MISCELLANEOUS MATERIALS

- A. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber or rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.6 mm.

- 1. **Products:** Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

- a. DuPont (E. I. du Pont de Nemours and Company); DuPont Flashing Tape.
 - b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Butyl Self Adhered Flashing.
 - c. Protecto Wrap Company; BT-25 XL.
 - d. Raven Industries Inc.; Fortress Flashshield.
 - e. Advanced Building Products Inc.; Wind-o-wrap.
 - f. Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - g. Fiberweb, Clark Hammerbeam Corp.; Aquaflash 500.
 - h. Fortifiber Building Systems Group; Fortiflash 40.
 - i. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Plus Self-Adhered Flashing or Vycor V40 Self-Adhered Flashing.
 - j. MFM Building Products Corp.; Window Wrap.
 - k. Polyguard Products, Inc.; Polyguard JT-30 Tape.
 - l. Sandell Manufacturing Co., Inc.; Presto-Seal.

- B. Primer for Flexible Flashing: Product recommended by manufacturer of flexible flashing for substrate.

- C. Nails and Staples: ASTM F 1667.

PART 3 - EXECUTION

3.1 WATER-RESISTIVE BARRIER INSTALLATION

- A. Cover exposed exterior surface of sheathing with water-resistive barrier securely fastened to framing immediately after sheathing is installed.

- B. Cover sheathing with water-resistive barrier as follows:

- 1. Cut back barrier 13 mm on each side of the break in supporting members at expansion- or control-joint locations.
 - 2. Apply barrier to cover vertical flashing with a minimum 100-mm overlap unless otherwise indicated.

- C. Building Wrap: Comply with manufacturer's written instructions.

1. Seal seams, edges, fasteners, and penetrations with tape.
2. Extend into jambs of openings and seal corners with tape.

3.2 FLEXIBLE FLASHING INSTALLATION

- A. Apply flexible flashing where indicated to comply with manufacturer's written instructions.**
1. Prime substrates as recommended by flashing manufacturer.
 2. Lap seams and junctures with other materials at least 100 mm except that at flashing flanges of other construction, laps need not exceed flange width.
 3. Lap flashing over water-resistive barrier at bottom and sides of openings.
 4. Lap water-resistive barrier over flashing at heads of openings.
 5. After flashing has been applied, roll surfaces with a hard rubber or metal roller to ensure that flashing is completely adhered to substrates.

END OF SECTION 07250

SECTION 072700

FLUID APPLIED
WEATHER BARRIERS

SECTION 072700 - FLUID APPLIED WEATHER BARRIERS

PART 1 - GENERAL

1.1 SUMMARY

- A. **Work Included:** Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
1. Fluid-applied, vapor-retarding membrane air/moisture barrier on exterior face of concrete masonry walls.
 2. Self-Adhering Flexible Flashing
 3. Transition strips to adjacent and penetrating materials.

1.2 DEFINITIONS

- A. **Air Barrier Assembly:** The collection of air barrier materials and auxiliary materials applied to an opaque wall or soffit, including joints and junctions to abutting construction, to control air movement through the wall.

1.3 PERFORMANCE REQUIREMENTS

- A. **General:** Air barrier shall be capable of performing as a continuous vapor-retarding air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. Air barrier assemblies shall be capable of accommodating substrate movement and of sealing substrate expansion and control joints, construction material changes, penetrations, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits.
- B. **Air Barrier Assembly Air Leakage:** Not to exceed 0.03 cfm/sq. ft. of surface area at 1.57 lbf/sq. ft., ASTM E 283.

1.4 PRECONSTRUCTION TESTING

- A. **Mockup Testing:** Air barrier assemblies shall comply with performance requirements indicated, as evidenced by reports based on mockup testing by a qualified testing agency.
1. The Owner may engage a qualified testing agency.
 2. **Qualitative Air Leakage Testing:** Testing of the mockup for air leakage will be conducted not to exceed the test pressure differential, positive and negative, indicated in "Performance Requirements" Article for air barrier assembly air leakage when tested according to ASTM E 1186.
 3. Notify Architect and the Owner a minimum of seven days in advance of the dates and times when mockup testing will take place.
 4. Mock-up testing to be accomplished in general accordance with Testing Agency's Air Barrier Test Plan.

1.5 SUBMITTALS

- A. **Product Data:** Include manufacturer's written instructions for evaluating, preparing, and treating substrate; technical data; and tested physical and performance properties of air barrier.
- B. **Shop Drawings:** Show locations and extent of air barrier. Include details for substrate joints and cracks, counterflashing strip, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
 - 1. Include details of interfaces with other materials that form part of air barrier.
 - 2. Include details of mockups.
- C. **Product Certificates:** For air barriers, certifying compatibility of air barrier and accessory materials with Project materials that connect to or that come in contact with air barrier; signed by product manufacturer.
- D. **Qualification Data:** For Applicator.
- E. **Product Test Reports:** Based on evaluation of comprehensive tests performed by a qualified testing agency, for air barriers. Provide evidence that Air Barrier Assembly meets performance requirements stated in 1.3.B. when tested under ASTM E283 and ASTM E2357.

1.6 QUALITY ASSURANCE

- A. **Applicator Qualifications:** A firm experienced in applying air barrier materials similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. **Mockups:** Before beginning installation of air barrier, build mockups of exterior wall assembly 150 sq. ft., incorporating backup wall construction, external cladding, window, door frame and sill, insulation, and flashing to demonstrate surface preparation, crack and joint treatment, and sealing of gaps, terminations, and penetrations of air barrier membrane.
 - 1. Coordinate construction of mockup to permit inspection by Owner's testing agency of air barrier before external insulation and cladding is installed.
 - 2. Include junction with roofing membrane, building corner condition, and foundation wall intersection.
 - 3. If the Architect determines mockups do not comply with requirements, reconstruct mockups and apply air barrier until mockups are approved.
 - 4. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. **Preinstallation Conference:** Conduct conference at Project site.
 - 1. Include installers of other construction connecting to air barrier, such as roofing, waterproofing, architectural precast concrete, masonry, joint sealants, windows, glazed curtain walls, and door frames.
 - 2. Review air barrier requirements including surface preparation, substrate condition and pretreatment, minimum substrate curing period, forecasted weather conditions, special

details and sheet flashings, mockups, installation procedures, sequence of installation, testing and inspecting procedures, and protection and repairs.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store liquid materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by air barrier manufacturer.
- B. Remove and replace liquid materials that cannot be applied within their stated shelf life.
- C. Store rolls according to manufacturer's written instructions.
- D. Protect stored materials from direct sunlight.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Apply air barrier within the range of ambient and substrate temperatures recommended by air barrier manufacturer. Protect substrates from environmental conditions that affect performance of air barrier. Do not apply air barrier to a damp or wet substrate or during snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 FLUID-APPLIED MEMBRANE AIR/MOISTURE BARRIER

- A. Fluid-Applied, Vapor-Retarding Membrane Air/Moisture Barrier: Elastomeric, modified bituminous or synthetic polymer membrane.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Elastomeric Modified Bituminous Membrane:
 - 1) Carlisle Coatings & Waterproofing; Barriseal.
 - 2) Henry Company; Air-Bloc 06.
 - 3) Meadows, W. R., Inc.; Air-Shield LM.
 - 4) Tremco Incorporated; ExoAir.
 - b. Synthetic Polymer Membrane:
 - 1) Grace, W. R. & Co.; Perm-A-Barrier Liquid.
 - 2) Henry Company; Air-Bloc 32.
 - 3) Rubber Polymer Corporation; Rub-R-Wall Airtight.
 - 2. Physical and Performance Properties:
 - a. Membrane Air Permeance: Not to exceed 0.004 cfm x sq. ft. of surface area at 1.57-lbf/sq. ft. pressure difference; ASTM E 2178.
 - b. Membrane Vapor Permeance: Not to exceed 0.1 perm; ASTM E 96.

2.2 AUXILIARY MATERIALS

- A. General: Auxiliary materials recommended by air barrier manufacturer for intended use and compatible with air barrier. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Primer: Liquid waterborne or solvent-borne primer recommended for substrate by manufacturer of air barrier material.
- C. Self-Adhering Flexible Flashing and Counterflashing Strip: Modified bituminous 40-mil-thick, self-adhering sheet consisting of 32 mils of rubberized asphalt laminated to an 8-mil-thick, crosslaminated polyethylene film with release liner backing.
- D. Butyl Strip at Termination with EPDM or TPO Roofing Membrane: Vapor-retarding, 30- to 40-mil-thick, self adhering; polyethylene-film-reinforced top surface laminated to layer of butyl adhesive, with release liner backing.
- E. Modified Bituminous Strip To Cover Cracks and Joints and Terminate Air Barrier to Compatible Roofing Membrane: Vapor-retarding, 40-mil-thick, smooth-surfaced, self-adhering; consisting of 36 mils of rubberized asphalt laminated to a 4-mil- polyethylene film with release liner backing.
- F. Termination Mastic: Cold fluid-applied elastomeric liquid; trowel grade.
- G. Substrate Patching Membrane: Manufacturer's standard trowel-grade substrate filler.
- H. Adhesive and Tape: Air barrier manufacturer's standard adhesive and pressure-sensitive adhesive tape.
- I. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, 0.0187 inch thick, and Series 300 stainless-steel fasteners.
- J. Sprayed Polyurethane Foam Sealant to Fill Gaps at Penetrations and Openings: 1- or 2-component, foamed-in-place, polyurethane foam sealant, 1.5 to 2.0 lb/cu. ft. density; flame spread index of 25 or less according to ASTM E 162; with primer and noncorrosive substrate cleaner recommended by foam sealant manufacturer.
- K. Modified Bituminous Transition Strip to Seal Air Barrier Terminations with Glazing Systems: Vapor-retarding, 40-mil-thick, smooth-surfaced, self-adhering; consisting of 36 mils of rubberized asphalt laminated to a 4-mil-thick polyethylene film with release liner backing.
- L. Preformed Silicone-Sealant Extrusion to Seal Air Barrier Terminations with Glazing Systems: Manufacturer's standard system consisting of cured low-modulus silicone extrusion, sized to fit opening widths, with a single-component, neutral-curing, Class 100/50 (low-modulus) silicone sealant for bonding extrusions to substrates.
 - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dow Corning Corporation, 123 Silicone Seal.

- b. GE Silicone, UltraSpan US1100.
 - c. Pecora Corporation, Sil-Span.
 - d. Tremco, Incorporated, Spectrem EZ Simple Seal.
 - e. Or approved equal.
- M. Joint Sealant: ASTM C 920, single-component, neutral-curing silicone; Class 100/50 (low-modulus), Grade NS, Use NT related to exposure, and, as applicable to joint substrates indicated, Use O. Comply with Section 079200 - JOINT SEALANTS.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.
- 1. Verify that substrates are sound and free of oil, grease, dirt, excess mortar, or other contaminants.
 - 2. Verify that concrete has cured and aged for minimum time period recommended by air barrier manufacturer.
 - 3. Verify that concrete is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
 - 4. Verify that masonry joints are flush and completely filled with mortar.
 - 5. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. Clean, prepare, and treat substrate according to manufacturer's written instructions. Provide clean, dust-free, and dry substrate for air barrier application.
- B. Mask off adjoining surfaces not covered by air barrier to prevent spillage and overspray affecting other construction.
- C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.
- D. Remove fins, ridges, mortar, and other projections and fill honeycomb, aggregate pockets, holes, and other voids in concrete with substrate-patching membrane.
- E. Remove excess mortar from masonry ties, shelf angles, and other obstructions.
- F. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks according to ASTM D 4258.
- 1. Install modified bituminous strips and center over treated construction and contraction joints and cracks exceeding a width of 1/16 inch.
- G. Bridge and cover isolation joints expansion joints and discontinuous deck-to-wall and deck-to-deck joints with overlapping modified bituminous strips.

- H. At changes in substrate plane, apply sealant or termination mastic beads at sharp corners and edges to form a smooth transition from one plane to another.
- I. Cover gaps in substrate plane and form a smooth transition from one substrate plane to another with stainless-steel sheet mechanically fastened to structural framing to provide continuous support for air barrier.

3.3 JOINT TREATMENT IN PREPARATION FOR INSTALLATION OF FLUID-APPLIED MEMBRANE

- A. Concrete and Masonry: Prepare, treat, rout, and fill joints and cracks in substrate according to ASTM C 1193 and air barrier manufacturer's written instructions. Remove dust and dirt from joints and cracks complying with ASTM D 4258 before coating surfaces.
 - 1. Prime substrate and apply a single thickness of preparation coat strip extending a minimum of 3 inches along each side of joints and cracks. Apply a double thickness of air barrier membrane and embed a joint reinforcing strip in preparation coat.
- B. Gypsum Sheathing: Fill joints greater than 1/4 inch with sealant according to ASTM C 1193 and with air barrier manufacturer's written instructions. Apply first layer of fluid air barrier membrane at joints. Tape joints with joint reinforcing strip after first layer is dry. Apply a second layer of fluid air barrier membrane over joint reinforcing strip.

3.4 TRANSITION STRIP INSTALLATION

- A. Install strips, transition strips, and auxiliary materials according to air barrier manufacturer's written instructions to form a seal with adjacent construction and maintain a continuous air barrier.
 - 1. Coordinate the installation of air barrier with installation of roofing membrane and base flashing to ensure continuity of air barrier with roofing membrane.
 - 2. Install butyl or modified bituminous strip on roofing membrane or base flashing so that a minimum of 3 inches of coverage is achieved over both substrates.
- B. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by air barrier sheet in same day. Reprime areas exposed for more than 24 hours.
 - 1. Prime glass-fiber-surfaced gypsum sheathing with number of prime coats needed to achieve required bond, with adequate drying time between coats.
- C. Connect and seal exterior wall air barrier membrane continuously to roofing membrane air barrier, concrete below-grade structures, floor-to floor construction, exterior glazing and window systems, glazed curtain-wall systems, storefront systems, exterior louvers, exterior door framing, and other construction used in exterior wall openings, using accessory materials.
- D. At end of each working day, seal top edge of strips and transition strips to substrate with termination mastic.

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- E. Apply joint sealants forming part of air barrier assembly within manufacturer's recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
 - F. Wall Openings: Prime concealed perimeter frame surfaces of windows, curtain walls, storefronts, and doors. Apply manufacturer's recommended transition strip so that a minimum of 3 inches of coverage is achieved over both substrates. Maintain 3 inches of full contact over firm bearing to perimeter frames with not less than 1 inch of full contact.
 - 1. Transition Strip: Roll firmly to enhance adhesion.
 - 2. Elastomeric Flashing Sheet: Apply adhesive to wall, frame, and flashing sheet. Install flashing sheet and termination bars, fastened at 6 inches o.c. Apply lap sealant over exposed edges and on cavity side of flashing sheet.
 - 3. Preformed Silicone-Sealant Extrusion: Set in full bed of silicone sealant applied to walls, frame, and membrane.
 - G. Fill gaps in perimeter frame surfaces of windows, curtain walls, storefronts, and doors, and miscellaneous penetrations of air barrier membrane with foam sealant.
 - H. Seal strips and transition strips around masonry reinforcing or ties and penetrations with termination mastic.
 - I. Seal top of through-wall flashings to air barrier with an additional 6-inch-wide, modified bituminous strip.
 - J. Seal exposed edges of strips at seams, cuts, penetrations, and terminations not concealed by metal counterflashings or ending in reglets with termination mastic.
 - K. Repair punctures, voids, and deficient lapped seams in strips and transition strips. Slit and flatten fishmouths and blisters. Patch with transition strips extending 6 inches beyond repaired areas in strip direction.
- 3.5 INSTALLATION OF FLUID-APPLIED MEMBRANE AIR/MOISTURE BARRIER
- A. Apply air/moisture barrier membrane to form a seal with strips and transition strips and to achieve a continuous air barrier according to air barrier manufacturer's written instructions.
 - B. Apply air barrier membrane within manufacturer's recommended application temperature ranges.
 - C. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by air barrier sheet in same day. Reprime areas exposed for more than 24 hours.
 - 1. Prime glass-fiber-surfaced gypsum sheathing with number of prime coats needed to achieve required bond, with adequate drying time between coats.
 - D. Apply a continuous unbroken air barrier to substrates according to the following minimum thickness. Apply membrane in full contact around protrusions such as masonry ties.
 - 1. Vapor-Retarding Membrane Air/Moisture Barrier: 60-mil dry film thickness.

- E. Apply strip and transition strip a minimum of 1 inch onto cured air membrane or strip and transition strip over cured air membrane overlapping 3 inches onto each surface according to air barrier manufacturer's written instructions.
- F. Do not cover air barrier until it has been tested and inspected by Owner's testing agency.
- G. Correct deficiencies in or remove air barrier that does not comply with requirements; repair substrates and reapply air barrier components.

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and prepare test reports.
- B. Inspections: Air barrier materials and installation are subject to inspection for compliance with requirements. Inspections may include the following:
 - 1. Continuity of air barrier system has been achieved throughout the building envelope with no gaps or holes.
 - 2. Continuous structural support of air barrier system has been provided.
 - 3. Masonry and concrete surfaces are smooth, clean, and free of cavities, protrusions, and mortar droppings.
 - 4. Site conditions for application temperature and dryness of substrates have been maintained.
 - 5. Maximum exposure time of materials to UV deterioration has not been exceeded.
 - 6. Surfaces have been primed.
 - 7. Laps in sheet materials have complied with the minimum requirements and have been shingled in the correct direction (or mastic applied on exposed edges), with no fishmouths.
 - 8. Termination mastic has been applied on cut edges.
 - 9. Air barrier has been firmly adhered to substrate.
 - 10. Compatible materials have been used.
 - 11. Transitions at changes in direction and structural support at gaps have been provided.
 - 12. Connections between assemblies (membrane and sealants) have complied with requirements for cleanliness, preparation, and priming of surfaces, structural support, integrity, and continuity of seal.
 - 13. All penetrations have been sealed.
- C. Tests:
 - 1. Qualitative Testing: Whole building air barrier systems will be tested for evidence of air leakage according to ASTM E 1186.
 - 2. Whole building qualitative testing to be accomplished in general accordance with Testing Agency's Air Barrier Test Plan.
- D. Remove and replace deficient air barrier components and retest as specified above.

3.7 CLEANING AND PROTECTION

- A. Protect air barrier system from damage during application and remainder of construction period, according to manufacturer's written instructions.
 - 1. Protect air barrier from exposure to UV light and harmful weather exposure as required by manufacturer. Remove and replace air barrier exposed to these conditions for more than 30 days.
 - 2. Protect air barrier from contact with creosote, uncured coal-tar products, TPO, EPDM, flexible PVC membranes, and sealants not approved by air barrier manufacturer.

- B. Clean spills, stains, and soiling from adjacent construction that would be exposed in the completed work using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION

SECTION 099600

HIGH PERFORMANCE
COATINGS

SECTION 099600 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes surface preparation and application of high-performance coating systems on the following substrates:

1. Apparatus Bay Concrete Floor Slabs

- B. Related Sections include the following:

1. Division 1 Section "Leed Requirements" for general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed.
2. Division 1 Section "Construction Waste Management" for administrative and procedural requirements for salvaging, recycling and disposing of non-hazardous construction waste.
3. Division 9 painting Sections for special-use coatings and general field painting.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Verification: For each type of coating system and in each color and gloss of finish coat indicated.
1. Submit Samples on rigid backing, 8 inches (200 mm) square.
 2. Step coats on Samples to show each coat required for system.
 3. Label each coat of each Sample.
 4. Label each Sample for location and application area.
- C. Product List: For each product indicated. Cross-reference products to coating system and locations of application areas. Use same designations indicated on Drawings and in schedules.
- D. LEED Submittals:
1. Product Data for Credit EQ 4.2: For coatings, including printed statement of VOC content.

1.3 QUALITY ASSURANCE

- A. Master Painters Institute (MPI) Standards:
1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
 2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and coating systems indicated.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.5 PROJECT CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and surrounding air temperatures are between 50 and 95 deg F (10 and 35 deg C).

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.
 - 1. Quantity: Furnish an additional 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

PART 2 - PRODUCTS

2.1 HIGH-PERFORMANCE COATINGS, GENERAL

- A. Material Compatibility:
 - 1. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. Provide products of same manufacturer for each coat in a coating system.
- B. VOC Content of Field-Applied Interior Paints and Coatings: Provide products that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - 1. Flat Paints, Coatings, and Primers: VOC content of not more than 50 g/L.
 - 2. Nonflat Paints, Coatings, and Primers: VOC content of not more than 150 g/L.
 - 3. Anticorrosive and Anti-Rust Paints Applied to Ferrous Metals: VOC content of not more than 250 g/L.
- C. Colors: As indicated in color schedule.

2.2 EPOXY COATINGS

- A. Epoxy Coating: MPI #82.

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Basis-of Design: Euclid Chemical Company; Duralkote 240
 - b. Approved Equal
2. VOC Content: 0 g/L
3. Colors per Finish Schedule

2.3 POLYURETHANE COATINGS – Temporary Facility

A. Two-Component, Aliphatic Polyurethane, Clear: MPI #78.

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Benjamin Moore & Co.; Aliphatic Acrylic Urethane Clear, CM7400
 - b. BLP Mobile Paint Manufacturing Company, Inc.; Mothane; Polyurethane Enamel - Clear, 72-AF-1.
 - c. Cloverdale Paint; ClovaThane, 834 Series.
 - d. Columbia Paint & Coatings; DuPont, Imron Polyurethane Clear Enamel, 610P.
 - e. Frazee Paint; Amershield Gloss Urethane.
 - f. General Paint, Ameron; Amershield, 96 Line.
 - g. Griggs Paint; Hi-Solids Polyurethane Clear, 100C18.
 - h. ICI Paints; Devco Coatings, DevthaneAlphatic Urethane, 369K-379K.
 - i. Insl-x; Insl-Tron, Acrylic, Aliphatic Polyurethane, AU0500.
 - j. Kryton Canada Corporation; Vikadeck 13-320, K-822.
 - k. M.A.B. Paints; Anti Graffiti Coating, 052-007/8.
 - l. Miller Paint; PPG Pitt-Thane Ultra - Clear Gloss, 95-8000.
 - m. PARA Paints; Insl-x, Insl-Tron, AU-0300.
 - n. Parker Paint Mfg. Co. Inc.; DuPont, Imron Polyurethane Enamel - Clear, 610P.
 - o. PPG Architectural Finishes, Inc.; Pitthane, Polyurethane Aliphatic 2 Comp. Clear, 95-8000.
 - p. Tamms Industries, Inc.; Dural 1004C.
2. VOC Content: Minimum E Range of E2.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
 1. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
 2. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.

3. Coating application indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove plates, machined surfaces, and similar items already in place that are not to be coated. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and coating.
 1. After completing coating operations, reinstall items that were removed; use workers skilled in the trades involved.
- C. Clean substrates of substances that could impair bond of coatings, including dirt, oil, grease, and incompatible paints and encapsulants.
 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce coating systems indicated.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions.
 1. Use applicators and techniques suited for coating and substrate indicated.
 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
 3. Coat back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
- B. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- C. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

- C. Protect work of other trades against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.5 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE

A. Steel Substrates:

- 1. Polyurethane, Pigmented Coating System:
 - a. Prime Coat: Cold-curing epoxy primer, MPI #101.
 - b. Intermediate Coat: Polyurethane, two-component, pigmented, gloss, MPI #72.
 - c. Topcoat: Polyurethane, two-component, pigmented, gloss, MPI #72.
- 2. Polyurethane, Pigmented, Over High-Build Epoxy Coating System:
 - a. Prime Coat: Cold-curing epoxy primer, MPI #101.
 - b. Intermediate Coat: High-build epoxy marine coating, low gloss, MPI #108.
 - c. Topcoat: Polyurethane, two-component, pigmented, gloss, MPI #72.

END OF SECTION 099600

SECTION 105113
METAL LOCKERS

SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Standard metal lockers.
2. Gear Lockers

B. Related Section:

1. Division 1 Section "Leed Requirements" for general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed.
2. Division 1 Section "Construction Waste Management" for administrative and procedural requirements for salvaging, recycling and disposing of non-hazardous construction waste.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal locker.
- B. Shop Drawings: For metal lockers. Include plans, elevations, sections, details, and attachments to other work.
1. Show locker trim and accessories.
 2. Include locker identification system and numbering sequence.
- C. Samples for Verification: For metal lockers, in manufacturer's standard sizes.
- D. Qualification Data: For qualified Installer.
- E. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.
- F. Warranty: Sample of special warranty.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain metal lockers, and accessories from single source from single manufacturer.

- C. Regulatory Requirements: Where metal lockers are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities".

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver metal lockers until spaces to receive them are clean, dry, and ready for their installation.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of recessed openings by field measurements before fabrication.

1.6 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that metal lockers can be supported and installed as indicated.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.

- 1. Failures include, but are not limited to, the following:

- a. Structural failures.
- b. Faulty operation of latches and other door hardware.

- 2. Damage from deliberate destruction and vandalism is excluded.

- 3. Warranty Period for Knocked-Down Metal Lockers: Two years from date of Substantial Completion.

1.8 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

- 1. Full-size units of the following metal locker hardware items equal to 10 percent of amount installed for each type and finish installed, but no fewer than five units:

- a. Locks.
- b. Identification plates.
- c. Hooks.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- B. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.
- C. Anchors: Material, type, and size required for secure anchorage to each substrate.
 - 1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls, and elsewhere as indicated, for corrosion resistance.
 - 2. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

2.2 GEAR LOCKERS

- A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Penco Products, Inc.; Patriot Lockers.
 - 2. Lyon Workspace Products, LLC
 - 3. Republic Storage Systems Company
- B. **Locker Arrangement: Single tier, 18"x 21"x 76" (WxDxH)**
- C. Material: Cold-rolled steel sheet.
- D. Body: Heavy Duty All-Welded Gear Lockers:
 - 1. 16 gauge body with diamond perforated sides.
- E. Frames: Channel formed; fabricated from 0.060-inch (1.52-mm) nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral door strike full height on vertical main frames.
- F. Doors: One piece; fabricated from 14 gauge (0.067-inch (1.52-mm)) nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
 - 1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches (381 mm) wide; welded to inner face of doors.
 - 2. Stiffeners: Manufacturer's standard full-height stiffener fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet; welded to inner face of doors.
 - 3. Door Style: Vented panel as follows: Diamond Perforated
- G. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.

1. Continuous Hinge
- H. Recessed Door Handle and Latch: Stainless-steel cup with integral door pull, recessed so locking device does not protrude beyond face of door; pry and vandal resistant.
 1. Multipoint Latching: Finger-lift latch control designed for use with built-in combination locks, built-in key locks, or padlocks; positive automatic latching and prelocking.
 - a. Latch Hooks: Equip doors 48 inches (1219 mm) and higher with three latch hooks fabricated from 0.105-inch (2.66-mm) nominal-thickness steel sheet; welded or riveted to full-height door strikes; with resilient silencer on each latch hook.
 - b. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact, and incorporating a prelocking device that allows locker door to be locked while door is open and then closed without unlocking or damaging lock or latching mechanism.
 - ~~I. Built-in Combination Locks: Key controlled, three-number dialing combination locks; capable of at least five combination changes made automatically with a control key.~~
 - ~~1. Bolt Operation: Manually locking deadbolt.~~
- J. Accessories:
 1. Welded legs.
 - a. Height: 4 inches (102 mm).
 2. Recess Trim: Fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
 3. Filler Panels: Fabricated from manufacturer's standard thickness, but not less than 0.036-inch (0.91-mm) nominal-thickness steel sheet.
 4. Coat rod with coat hooks.
 5. Helmet Shelf
 6. Number Plate
 7. Name Card Holder
- K. Finish: 2 mil Powder Coat Plus Paint Finish
 1. Color(s): **Body- 722 Patriot Red, Door- 99 Jet Black**

2.3 PERSONNEL LOCKERS

- A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 1. Penco Products, Inc.; Vanguard Lockers.
 2. Lyon Workspace Products, LLC
 3. Republic Storage Systems Company
- B. Locker Arrangement: Single and double tier, 18"x 21"x 76" (WxDxH)

- C. Material: Cold-rolled steel sheet.
- D. Body: Heavy Duty All-Welded Gear Lockers
 - 1. 16 gauge welded center partition and solid sides.
- E. Frames: Channel formed; fabricated from 0.060-inch (1.52-mm) nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral door strike full height on vertical main frames.
- F. Doors: One piece; fabricated from 14 gauge (0.067-inch (1.52-mm)) nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
 - 1. Doors less than 12 inches (305 mm) wide may be fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
 - 2. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches (381 mm) wide; welded to inner face of doors.
 - 3. Stiffeners: Manufacturer's standard full-height stiffener fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet; welded to inner face of doors.
 - 4. Door Style: Vented panel as follows: Louvered
- G. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.
 - 1. Continuous Hinge
- H. Recessed Door Handle and Latch: Stainless-steel cup with integral door pull, recessed so locking device does not protrude beyond face of door; pry and vandal resistant.
 - 1. Multipoint Latching: Finger-lift latch control designed for use with built-in combination locks, built-in key locks, or padlocks; positive automatic latching and prelocking.
 - a. Latch Hooks: Equip doors 48 inches (1219 mm) and higher with three latch hooks fabricated from 0.105-inch (2.66-mm) nominal-thickness steel sheet; welded or riveted to full-height door strikes; with resilient silencer on each latch hook.
 - b. Latching Mechanism: Manufacturer's standard, rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact, and incorporating a prelocking device that allows locker door to be locked while door is open and then closed without unlocking or damaging lock or latching mechanism.
- I. Built-in Combination Locks: Key-controlled, three-number dialing combination locks; capable of at least five combination changes made automatically with a control key.
 - 1. Bolt Operation: Manually locking deadbolt.
- J. Accessories:
 - 1. Welded Channel Base.

- a. Height: 4 inches (102 mm).
 2. Recess Trim: Fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
 3. Filler Panels: Fabricated from manufacturer's standard thickness, but not less than 0.036-inch (0.91-mm) nominal-thickness steel sheet.
 4. Finished End Panels: Fabricated from 0.024-inch (0.61-mm) nominal-thickness steel sheet.
 5. Single Tier - 9" wide coat rod (left hand side of partition)
 6. Single Tier - 2 half shelves (right hand side of partition)
 7. Double Tier - Coat rod and hooks at each tier.
 8. Helmet Shelf
 9. Number Plate
 10. Name Card Holder
- K. Finish: 2 mil Powder Coat Plus Paint Finish
1. Color(s): As selected by Architect from manufacturer's full range.

2.4 FABRICATION

- A. Fabricate metal lockers square, rigid, and without warp and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.
 2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.
- B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.
- C. Hooks: Manufacturer's standard ball-pointed type, aluminum or steel; zinc plated.
- D. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch (9 mm) high.
- E. Recess Trim: Fabricated with minimum 2-1/2-inch (64-mm) face width and in lengths as long as practical; finished to match lockers.
- F. Filler Panels: Fabricated in an unequal leg angle shape; finished to match lockers. Provide slip-joint filler angle formed to receive filler panel.
- G. Finished End Panels: Designed for concealing unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.
1. Provide one-piece panels for double-row (back-to-back) locker ends.

2.5 STEEL SHEET FINISHES

- A. Factory finish steel surfaces and accessories except stainless-steel and chrome-plated surfaces.
- B. Baked-Enamel Finish: Immediately after cleaning, pretreating, and phosphatizing, apply manufacturer's standard thermosetting baked-enamel finish. Comply with paint manufacturer's written instructions for application, baking, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install level, plumb, and true; shim as required, using concealed shims.
 - 1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches (910 mm) o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
 - 2. Anchor single rows of metal lockers to walls near top and bottom of lockers.
 - 3. Anchor back-to-back metal lockers to floor.
- B. Knocked-Down Metal Lockers: Assemble with standard fasteners, with no exposed fasteners on door faces or face frames.
- C. Equipment and Accessories: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
 - 1. Attach hooks with at least two fasteners.
 - 2. Attach door locks on doors using security-type fasteners.
 - 3. Identification Plates: Identify metal lockers with identification indicated on Drawings.
 - a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
 - 4. Attach recess trim to recessed metal lockers with concealed clips.
 - 5. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.
 - 6. Attach sloping-top units to metal lockers, with closures at exposed ends.

7. Attach finished end panels with fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers.

3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding. Verify that integral locking devices operate properly.
- B. Protect metal lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.
- C. Touch up marred finishes, or replace metal lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION 105113

SECTION 262726
WIRING DEVICES

SECTION 262726 - WIRING DEVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Receptacles, receptacles with integral GFCI, and associated device plates.
 - 2. Weather-resistant receptacles.
 - 3. Snap switches and wall-box dimmers.
 - 4. Wall-switch and exterior occupancy sensors.
 - 5. Communications outlets.
 - 6. Pendant cord-connector devices.

1.3 DEFINITIONS

- A. EMI: Electromagnetic interference.
- B. GFCI: Ground-fault circuit interrupter.
- C. Pigtail: Short lead used to connect a device to a branch-circuit conductor.
- D. RFI: Radio-frequency interference.
- E. TVSS: Transient voltage surge suppressor.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Receptacles for Owner-Furnished Equipment: Match plug configurations.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.6 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For wiring devices to include in all manufacturers' packing-label warnings and instruction manuals that include labeling conditions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles, also see Wall Plates article for Basis-of-Design:
 - 1. Cooper Wiring Devices; Division of Cooper Industries, Inc. (Cooper).
 - 2. Hubbell Incorporated; Wiring Device-Kellems (Hubbell).
 - 3. Leviton Mfg. Company Inc. (Leviton).
 - 4. Pass & Seymour/Legrand (Pass & Seymour).
- B. Source Limitations: Obtain each type of wiring device and associated wall plate from single source from single manufacturer.

2.2 GENERAL WIRING-DEVICE REQUIREMENTS

- A. Wiring Devices, Components, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with NFPA 70.
- C. Devices that are manufactured for use with modular plug-in connectors may be substituted under the following conditions:
 - 1. Connectors shall comply with UL 2459 and shall be made with stranding building wire.
 - 2. Devices shall comply with the requirements in this Section.

2.3 STRAIGHT-BLADE RECEPTACLES

- A. Convenience Receptacles, 125 V, 20 A: Comply with NEMA WD 1, NEMA WD 6 Configuration 5-20R, UL 498, and FS W-C-596.
 - 1. Products: Subject to compliance with requirements, provide one of the following available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Cooper; 5351 (single), CR5362 (duplex).

- b. Hubbell; HBL5351 (single), HBL5352 (duplex).
- c. Leviton; 5891 (single), 5352 (duplex).
- d. Pass & Seymour; 5361 (single), 5362 (duplex).

2.4 GFCI RECEPTACLES

A. General Description:

- 1. Straight blade, non-feed-through type.
- 2. Comply with NEMA WD 1, NEMA WD 6, UL 498, UL 943 Class A, and FS W-C-596.
- 3. Include indicator light that shows when the GFCI has malfunctioned and no longer provides proper GFCI protection.

B. Duplex GFCI Convenience Receptacles, 125 V, 20 A:

- 1. Products: Subject to compliance with requirements, provide one of the following available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Cooper; VGF20.
 - b. Hubbell; GFR5352L.
 - c. Pass & Seymour; 2095.
 - d. Leviton; 7590.

2.5 PENDANT CORD-CONNECTOR DEVICES

A. Description:

- 1. Matching, locking-type plug and receptacle body connector.
- 2. NEMA WD 6 Configurations L5-20P and L5-20R, heavy-duty grade, and FS W-C-596.
- 3. Body: Nylon, with screw-open, cable-gripping jaws and provision for attaching external cable grip.
- 4. External Cable Grip: Woven wire-mesh type made of high-strength, galvanized-steel wire strand, matched to cable diameter, and with attachment provision designed for corresponding connector.

2.6 TOGGLE SWITCHES

A. Comply with NEMA WD 1, UL 20, and FS W-S-896.

B. Switches, 120/277 V, 20 A:

- 1. Products: Subject to compliance with requirements, provide one of the following available products that may be incorporated into the Work include, but are not limited to, the following:
 - 1) Single Pole:

- 2) Cooper; AH1221.
- 3) Hubbell; HBL1221.
- 4) Leviton; 1221-2.
- 5) Pass & Seymour; CSB20AC1.

- 6) Two Pole:
 - 7) Cooper; AH1222.
 - 8) Hubbell; HBL1222.
 - 9) Leviton; 1222-2.
 - 10) Pass & Seymour; CSB20AC2.

- 11) Three Way:
 - 12) Cooper; AH1223.
 - 13) Hubbell; HBL1223.
 - 14) Leviton; 1223-2.
 - 15) Pass & Seymour; CSB20AC3.

2.7 WALL-BOX DIMMERS

- A. Dimmer Switches: Modular, full-wave, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters.
- B. Control: Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472.
- C. Fluorescent Lamp Dimmer Switches: Modular; compatible with dimmer ballasts; trim potentiometer to adjust low-end dimming; dimmer-ballast combination capable of consistent dimming with low end not greater than 20 percent of full brightness.

2.8 WALL PLATES - Engine House 14

- A. Products: Provide the following product or approved equal:
 1. Lutron Architectural Style Series, Satin Nickel plate with black controls
- B. Single and combination types shall match corresponding wiring devices.
 1. Plate-Securing Screws: Metal with head color to match plate finish.
 2. Material for Finished Spaces: Smooth, high-impact thermoplastic.
 3. Material for Unfinished Spaces: Galvanized steel.
 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in wet and damp locations.
- C. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with Type 3R, weather-resistant, die-cast aluminum with lockable cover.

2.9 WALL PLATES - Temporary Facility

- A. Single and combination types shall match corresponding wiring devices.
 - 1. Plate-Securing Screws: Metal with head color to match plate finish.
 - 2. Material for Finished Spaces: Smooth, high-impact thermoplastic.
 - 3. Material for Unfinished Spaces: Galvanized steel.
 - 4. Material for Damp Locations: Cast aluminum with spring-loaded lift cover, and listed and labeled for use in wet and damp locations.
- B. Wet-Location, Weatherproof Cover Plates: NEMA 250, complying with Type 3R, weather-resistant, die-cast aluminum with lockable cover.

2.10 FINISHES - Temporary Facility

- A. Device Color:
 - 1. Wiring Devices Connected to Normal Power System: Ivory unless otherwise indicated or required by NFPA 70 or device listing.
 - 2. Wiring Devices Connected to Emergency Power System: Red.
- B. Wall Plate Color: For plastic covers, match device color.

2.11 FINISHES - Engine House 14

- A. Device Color:
 - 1. Wiring Devices Connected to Normal Power System: **Black** unless otherwise indicated or required by NFPA 70 or device listing.
 - 2. Wiring Devices Connected to Emergency Power System: Red.
- B. **Wall Plate Color: Satin Nickel.**

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with NECA 1, including mounting heights listed in that standard, unless otherwise indicated.
- B. Coordination with Other Trades:
 - 1. Protect installed devices and their boxes. Do not place wall finish materials over device boxes and do not cut holes for boxes with routers that are guided by riding against outside of boxes.
 - 2. Keep outlet boxes free of plaster, drywall joint compound, mortar, cement, concrete, dust, paint, and other material that may contaminate the raceway system, conductors, and

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3. Install device boxes in brick or block walls so that the cover plate does not cross a joint unless the joint is troweled flush with the face of the wall.
4. Install wiring devices after all wall preparation, including painting, is complete.

C. Conductors:

1. Do not strip insulation from conductors until right before they are spliced or terminated on devices.
2. Strip insulation evenly around the conductor using tools designed for the purpose. Avoid scoring or nicking of solid wire or cutting strands from stranded wire.
3. The length of free conductors at outlets for devices shall meet provisions of NFPA 70, Article 300, without pigtails.
4. Existing Conductors:
 - a. Cut back and pigtail, or replace all damaged conductors.
 - b. Straighten conductors that remain and remove corrosion and foreign matter.
 - c. Pigtailling existing conductors is permitted, provided the outlet box is large enough.

D. Device Installation:

1. Replace devices that have been in temporary use during construction and that were installed before building finishing operations were complete.
2. Keep each wiring device in its package or otherwise protected until it is time to connect conductors.
3. Do not remove surface protection, such as plastic film and smudge covers, until the last possible moment.
4. Connect devices to branch circuits using pigtails that are not less than 6 inches (152 mm) in length.
5. When there is a choice, use side wiring with binding-head screw terminals. Wrap solid conductor tightly clockwise, two-thirds to three-fourths of the way around terminal screw.
6. Use a torque screwdriver when a torque is recommended or required by manufacturer.
7. When conductors larger than No. 12 AWG are installed on 15- or 20-A circuits, splice No. 12 AWG pigtails for device connections.
8. Tighten unused terminal screws on the device.
9. When mounting into metal boxes, remove the fiber or plastic washers used to hold device-mounting screws in yokes, allowing metal-to-metal contact.

E. Receptacle Orientation:

1. Install ground pin of vertically mounted receptacles up, and on horizontally mounted receptacles to the left.
2. Install hospital-grade receptacles in patient-care areas with the ground pin or neutral blade at the top.

F. Device Plates: Do not use oversized or extra-deep plates. Repair wall finishes and remount outlet boxes when standard device plates do not fit flush or do not cover rough wall opening.

G. Dimmers:

1. Install dimmers within terms of their listing.
2. Verify that dimmers used for fan speed control are listed for that application.

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3. Install unshared neutral conductors on line and load side of dimmers according to manufacturers' device listing conditions in the written instructions.

- H. Arrangement of Devices: Unless otherwise indicated, mount flush, with long dimension vertical and with grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
- I. Adjust locations of floor service outlets and service poles to suit arrangement of partitions and furnishings.

3.2 GFCI RECEPTACLES

- A. Install non-feed-through-type GFCI receptacles where protection of downstream receptacles is not required.

3.3 IDENTIFICATION

- A. Comply with Section 260553 "Identification for Electrical Systems."
- B. Identify each receptacle with panelboard identification and circuit number. Use hot, stamped, or engraved machine printing with black-filled lettering on face of plate, and durable wire markers or tags inside outlet boxes.

3.4 FIELD QUALITY CONTROL

- A. Perform the following tests and inspections:
 1. Test Instruments: Use instruments that comply with UL 1436.
 2. Test Instrument for Convenience Receptacles: Digital wiring analyzer with digital readout or illuminated digital-display indicators of measurement.
- B. Tests for Convenience Receptacles:
 1. Line Voltage: Acceptable range is 105 to 132 V.
 2. Percent Voltage Drop under 15-A Load: A value of 6 percent or higher is unacceptable.
 3. Ground Impedance: Values of up to 2 ohms are acceptable.
 4. GFCI Trip: Test for tripping values specified in UL 1436 and UL 943.
 5. Using the test plug, verify that the device and its outlet box are securely mounted.
 6. Tests shall be diagnostic, indicating damaged conductors, high resistance at the circuit breaker, poor connections, inadequate fault current path, defective devices, or similar problems. Correct circuit conditions, remove malfunctioning units and replace with new ones, and retest as specified above.
- C. Wiring device will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

END OF SECTION 262726