SITE PLAN - TELECOM
URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND
01/10/2019
BID SET
GP #21740
100 75 50 0 150

DATE DESCRIPTION
COORDINATE MOUNTING WITH ARCHITECTURAL ELEVATIONS FOR LCD MONITOR.

PROVIDE 3/4" CONDUIT WITH INDUCTION LOOP ANTENNA CABLE FOR HEARING ASSISTANCE SYSTEM. ROUTE IN WOOD HEAD RAIL RUNNING PERIMETER OF ROOM AT 9' - 4". COORDINATE WITH ARCHITECTURAL DRAWINGS.

PROVIDE 1" CONDUIT WITH AUDIO CABLE FROM TOUCHSCREEN DISPLAY LOW OUTLET TO SOUND SYSTEM.

PROVIDE PROJECTOR MOUNT. PROVIDE MOUNT BELOW LIGHTING. COORDINATE EXACT LOCATION AND HEIGHT IN FIELD.

PROPOSED ROUTE FOR EXTERIOR UNDERGROUND CONDUITS. REFER TO TE1.1 AND TE0.2 FOR ADDITIONAL INFORMATION.
NOTES:
CONNECT TO ATC PANEL. COORDINATE EXACT LOCATION IN FIELD.

(6) 1" CONDUITS. EACH CONDUIT SHALL HAVE A MAXIMUM OF (4) DATA CABLES PER 1" CONDUIT TO FEED FURNITURE. COORDINATE EXACT LOCATION IN THE FIELD WITH FURNITURE LAYOUT PRIOR TO ROUGH IN INSTALLATION.

MOUNT 48" AFF TO CENTERLINE OF DEVICE FOR WALL MOUNTED TELEVISION.

MOUNT BEHIND COPIER.

MOUNT DATA OUTLET FOR CHARGING STATION TIGHT TO END OF CABINET.
GENERAL NOTES:

1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

DATE DESCRIPTION
GENERAL NOTES:

1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN.

DRAWING NOTES:

1. PROVIDE CONTROL MODULE. CONNECT TO EMERGENCY LIGHTING CONTACTOR TO TURN "OFF" LIGHTS WHEN BUILDING IS "ARMED". COORDINATE EXACT LOCATION IN FIELD.
GENERAL NOTES:

1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8’-0” AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH DRAWING.

DRAWING NOTES:

1. PROVIDE CONTROL MODULE. CONNECT TO EMERGENCY LIGHTING CONTACTOR TO TURN "OFF" LIGHTS WHEN BUILDING IS "ARMED". COORDINATE EXACT LOCATION IN FIELD. SEE DETAIL #14 ON SHEET E6.1

2. RUN DATA CABLE SERVING CAMERA THE MOST DIRECT ROUTE TO MINIMIZE CABLE LENGTH.
1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
GENERAL NOTES:
1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

DRAWING NOTES:
1. PROVIDE CONTROL MODULE. CONNECT TO EMERGENCY LIGHTING CONTACTOR TO TURN "OFF" LIGHTS WHEN BUILDING IS "ARMED". COORDINATE EXACT LOCATION IN FIELD. SEE DETAIL #14 ON SHEET E6.1.
GENERAL NOTES:

1. INTERIOR CAMERAS SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED OR NO CEILING EXISTS. WALL MOUNTED CAMERAS SHALL BE APPROXIMATELY 8'-0" AFF UNLESS OTHERWISE NOTED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN.

DRAWING NOTES:

1. PROVIDE CONTROL MODULE. CONNECT TO EMERGENCY LIGHTING CONTACTOR TO TURN "OFF" LIGHTS WHEN BUILDING IS "ARMED".

COORDINATE EXACT LOCATION IN FIELD.

DATE DESCRIPTION
### Interior Lighting Fixture Schedule

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog No</th>
<th>Volume</th>
<th>Watt</th>
<th>Lamp</th>
<th>COS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Tunnel Mount Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- All fixtures are to be installed in accordance with local electrical codes.
- All fixtures are to be tested for proper operation before final inspection.
- All fixtures are to be marked with the manufacturer's name and model number.

---

**Exterior Lighting Fixture Schedule**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Catalog No</th>
<th>Volts</th>
<th>Watt</th>
<th>Lamp</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Exterior Wall Mounting Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
</tr>
<tr>
<td>B</td>
<td>Exterior Wall Mounting Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
</tr>
<tr>
<td>C</td>
<td>Exterior Wall Mounting Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
</tr>
<tr>
<td>D</td>
<td>Exterior Wall Mounting Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
</tr>
<tr>
<td>E</td>
<td>Exterior Wall Mounting Downlights</td>
<td>120V 120/208V 277V 400V 575V 600V</td>
<td>207</td>
<td>LED 300W</td>
<td>50</td>
<td>SURFACE</td>
<td>RECESSED</td>
</tr>
</tbody>
</table>

**Notes:**
- All fixtures are to be installed in accordance with local electrical codes.
- All fixtures are to be tested for proper operation before final inspection.
- All fixtures are to be marked with the manufacturer's name and model number.
**DRAWING NOTES:**

1. **GENERAL NOTES:**
   - Coordinate incoming service with utility company.
   - Coordinate service conduits with Potomac Edison.
   - Coordinate with grazing utilities.
   - Coordinate with Potomac Edison for conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
   - Coordinate with Potomac Edison for all conduit requirements.
GENERAL NOTES:

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON DRAWING E-8.1 FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

- PANEL C1D
- XFMR TC1D
- PRIMARY DISCONNECT

ELECTRICAL

- DSS-4
- Gipe Associates, Inc.

© GRIMM AND PARKER ARCHITECTURE, INC.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME, W.O. #17092, IN THE NAME OF Gipe Associates, Inc., Suite 600, Calverton, MD 20705, and shall not be altered or reproduced without permission of Gipe Associates, Inc. Copyright © 2019
THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIP A ASSOCIATES, INC. AND SHALL NOT BE ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF GIP A ASSOCIATES, INC. Copyright © 2019
GENERAL NOTES:

1. Emergencies located take nearest route to nearest stairway.
2. Connect all emergency lighting and stairway lighting.
3. Connect emergency lighting to emergency switch.
4. Arm/De-arm emergency switch NO.1 - (21000 meter)

DRAWING NOTES:

- Arrows indicate direction of travel.
- Connect lights to wiring:
  - TOILET:
    - OS A
  - TOILET:
    - OS R
  - TOILET:
    - OS G
- Connect to door signs:
  - Connect EXIT SIGNS to E1L1-3.
- TOILET:
  - OS D
- TOILET:
  - OS B
- TOILET:
  - OS J
- TOILET:
  - OS L
- To LIGHTING FIXTURE:
  - Furnished with DISPLAY CASE.

GENERAL NOTES:

1. Emergencies located take nearest route to nearest stairway.
2. Connect all emergency lighting and stairway lighting.
3. Connect emergency lighting to emergency switch.
4. Arm/De-arm emergency switch NO.1 - (21000 meter)

DRAWING NOTES:

- Arrows indicate direction of travel.
- Connect lights to wiring:
  - TOILET:
    - OS A
  - TOILET:
    - OS R
  - TOILET:
    - OS G
- Connect to door signs:
  - Connect EXIT SIGNS to E1L1-3.
- TOILET:
  - OS D
- TOILET:
  - OS B
- TOILET:
  - OS J
- TOILET:
  - OS L
- To LIGHTING FIXTURE:
  - Furnished with DISPLAY CASE.
**DRAWING NOTES:**

- Mount light switches at 4'-0" above landing.
- Field coordinate exact lighting fixture locations with equipment, ductwork, piping, etc.
- E1L1-7 via LC2.
- Mount eight foot square configuration at 19'-0" above bottom.
- Mount four foot square configuration at 18'-0" above bottom.
- Refer to architectural plans for exact locations.
- Refer to E-2.3 for continuation.

**GENERAL NOTES:**

1. Connect corridor and stairwell emergency lighting to E1L2-7 via LC7, connect exit signs to E1L2-9, connect room emergency lighting to E1L2-11.

**SCALE:** 1/8" = 1'-0"
1. Connect corridor and stairwell emergency lighting to E1L2-1 via LC7, connect exit signs to E1L2-5, connect room emergency lighting to E1L2-3.

2. Connect gymnasium C133 emergency lighting to E1L2-6.

3. Mount daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

4. Connect gymnasium C133 emergency lighting to E1L2-6.

5. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

6. Connect evacuation lighting to E1L2-6.

7. Connect signage to E1L2-6.

8. Connect emergency lighting to E1L2-6.

9. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

10. Connect emergency lighting to E1L2-6.

11. Connect signage to E1L2-6.

12. Connect emergency lighting to E1L2-6.

13. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

14. Connect emergency lighting to E1L2-6.

15. Connect signage to E1L2-6.

16. Connect emergency lighting to E1L2-6.

17. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

18. Connect emergency lighting to E1L2-6.

19. Connect signage to E1L2-6.

20. Connect emergency lighting to E1L2-6.

21. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

22. Connect emergency lighting to E1L2-6.

23. Connect signage to E1L2-6.

24. Connect emergency lighting to E1L2-6.

25. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.


27. Connect signage to E1L2-6.

28. Connect emergency lighting to E1L2-6.

29. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

30. Connect emergency lighting to E1L2-6.

31. Connect signage to E1L2-6.

32. Connect emergency lighting to E1L2-6.

33. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

34. Connect emergency lighting to E1L2-6.

35. Connect signage to E1L2-6.

36. Connect emergency lighting to E1L2-6.

37. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

38. Connect emergency lighting to E1L2-6.

39. Connect signage to E1L2-6.

40. Connect emergency lighting to E1L2-6.

41. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

42. Connect emergency lighting to E1L2-6.

43. Connect signage to E1L2-6.

44. Connect emergency lighting to E1L2-6.

45. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

46. Connect emergency lighting to E1L2-6.

47. Connect signage to E1L2-6.

48. Connect emergency lighting to E1L2-6.

49. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

50. Connect emergency lighting to E1L2-6.

51. Connect signage to E1L2-6.

52. Connect emergency lighting to E1L2-6.

53. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

54. Connect emergency lighting to E1L2-6.

55. Connect signage to E1L2-6.

56. Connect emergency lighting to E1L2-6.

57. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

58. Connect emergency lighting to E1L2-6.

59. Connect signage to E1L2-6.

60. Connect emergency lighting to E1L2-6.

61. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

62. Connect emergency lighting to E1L2-6.

63. Connect signage to E1L2-6.

64. Connect emergency lighting to E1L2-6.

65. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

66. Connect emergency lighting to E1L2-6.

67. Connect signage to E1L2-6.

68. Connect emergency lighting to E1L2-6.

69. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

70. Connect emergency lighting to E1L2-6.

71. Connect signage to E1L2-6.

72. Connect emergency lighting to E1L2-6.

73. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

74. Connect emergency lighting to E1L2-6.

75. Connect signage to E1L2-6.

76. Connect emergency lighting to E1L2-6.

77. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

78. Connect emergency lighting to E1L2-6.

79. Connect signage to E1L2-6.

80. Connect emergency lighting to E1L2-6.

81. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

82. Connect emergency lighting to E1L2-6.

83. Connect signage to E1L2-6.

84. Connect emergency lighting to E1L2-6.

85. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

86. Connect emergency lighting to E1L2-6.

87. Connect signage to E1L2-6.

88. Connect emergency lighting to E1L2-6.

89. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

90. Connect emergency lighting to E1L2-6.

91. Connect signage to E1L2-6.

92. Connect emergency lighting to E1L2-6.

93. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

94. Connect emergency lighting to E1L2-6.

95. Connect signage to E1L2-6.

96. Connect emergency lighting to E1L2-6.

97. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

98. Connect emergency lighting to E1L2-6.

99. Connect signage to E1L2-6.

100. Connect emergency lighting to E1L2-6.

101. Connect daylight control to structure. Locate per manufacturer's recommendations and so that sensor has a clear unobstructed view to the floor.

102. Connect emergency lighting to E1L2-6.

103. Connect signage to E1L2-6.

104. Connect emergency lighting to E1L2-6.
PARTIAL SECOND FLOOR PLAN - AREA A - FIRE ALARM

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

DRAWINGS NOTES:
MOUNT WITHIN 12" OF SPRINKLER DEVICE. FIELD COORDINATE EXACT LOCATION.
This drawing and the design and construction features disclosed are proprietary to Gipe Associates, Inc. and shall not be altered or reused in whole or in part without the express written permission of Gipe Associates, Inc. Copyright © 2019.
GENERAL NOTES:
1. REFER TO DRAWINGS FOR EXACT DEVICE COUNTS AND LOCATIONS
2. PROVIDE ALL WIRING IN CONDUIT, Sized AS RECOMMENDED BY SYSTEM MANUFACTURER.

DRAWING NOTES:
1. TO OTHER ALARM INITIATING DEVICES IN THIS ZONE.
2. TO OTHER ALARM NOTIFICATION DEVICES IN THIS ZONE.
3. TO OTHER SPEAKER SYSTEM SPREADER IN THIS ZONE.
4. TO OTHER CONTINUOUS MONITORING ALARM DEVICES IN THIS ZONE.
5. PROVIDE TWO (2) SETS OF RELAY IN ELEVATOR SMOKE DETECTOR (BOTH IN SHAFT AND LOBBY). COORDINATE EMERGENCY RECALL/CONTROL SEQUENCE WITH THE ELEVATOR INSPECTOR AND STATE FIRE MARSHAL.
6. PROVIDE ALL CODE REQUIRED ALARMS AND STATUS MONITORING FOR FIRE PUMP.
7. PROVIDE ALL CODE REQUIRED ALARMS AND STATUS MONITORING FOR GENERATORS TO FIRE ALARM SYSTEM INCLUDING GENERATOR RUNNING, GENERATOR TROUBLE, GENERATOR IN NON-AUTOMATIC MODE, AND SUPERVISORY ALARMS.
8. PROVIDE TWO (2) SETS OF RELAY IN E1R1-2,4,6,7,8,9,10 FOR OPERATION OF ELEVATOR SHUNT TRIP CIRCUIT BREAKER (IN ACCORDANCE WITH NFPA)
9. PROVIDE ALL CODE REQUIRED ALARMS AND CODE APPROVED INTERFACE AND DRIVERS TO INTEGRATED AUDIO SYSTEM FOR VOICE EVACUATION.
10. PROVIDE ALL CODE REQUIRED ALARMS AND STATUS MONITORING FOR FIRE ALARM SYSTEM INCLUDING GENERATOR RUNNING, GENERATOR TROUBLE, GENERATOR IN NON-AUTOMATIC MODE, AND SUPERVISORY ALARMS.
11. MAKE ALL CONNECTIONS TO ALERTUS SYSTEM IN MAIN OFFICE TO RELEASE DOOR HOLDERS UPON ACTIVATION.
12. MAKE CONNECTION TO EMERGENCY SHUNT TRIP FUNCTION.
13. MAKE CONNECTION TO EMERGENCY RECALL FUNCTION.
14. MAKE CONNECTION TO ELEVATOR RECALL FUNCTION.
15. MAKE CONNECTION TO ELEVATOR SHUTTLE TRIP.
16. MAKE CONNECTION TO OTHER CARBON MONOXIDE DETECTORS IN THIS ZONE.
17. MAKE CONNECTION TO OTHER SPRINKLER SYSTEM DEVICES IN THIS ZONE.
18. MAKE CONNECTION TO OTHER VOICE EVACUATION SPEAKERS IN THIS ZONE.
19. MAKE CONNECTION TO OTHER CONTROL MODULES (INCLUDING DOOR RELEASE) IN THIS ZONE.
20. PROVIDE ALL CODE REQUIRED ALARMS AND STATUS MONITORING FROM GENERATOR TO FIRE ALARM SYSTEM INCLUDING GENERATOR RUNNING, GENERATOR TROUBLE, GENERATOR IN NON-AUTOMATIC MODE, AND SUPERVISORY ALARMS.
IDENTIFYING ALARM POINTS

LIQUID CRYSTAL DISPLAY WINDOW

DRAWING NOTES:

1. DESIGN OBLIGATIONS SHALL BE A MINIMUM OF 24" X 30" IN SIZE.
2. PROVIDE ADDITIONAL GRAPHICS AND TEXT AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
3. FIRE ALARM SHALL BE COLOR CODED WITH 'BLUE' LINE FOR SPRINKLER ZONES AND 'RED' LINES FOR FIRE ALARM ZONES.
4. SPRINKLER SYSTEM RISERS, FIRE DEPARTMENT CONNECTION AND FIRE WALL SHALL BE CLEARLY SHOWN ON ANNUNCIATOR.
5. MECHANICAL ROOMS AND PENTHOUSES SHALL BE ANNUNCIATED SEPARATELY.

FIRST FLOOR
SECOND FLOOR

FIRE ALARM GRAPHIC ANNUNCIATOR

GRAPHIC ANNUNCIATOR SHALL BE A MINIMUM OF 24" x 30" IN SIZE.

PROVIDE ADDITIONAL GRAPHICS AND TEXT AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

FIRE ALARM SHALL BE COLOR CODED WITH 'BLUE' LINE FOR SPRINKLER ZONES AND 'RED' LINES FOR FIRE ALARM ZONES.

SPRINKLER SYSTEM RISERS, FIRE DEPARTMENT CONNECTION AND FIRE WALL SHALL BE CLEARLY SHOWN ON ANNUNCIATOR.

MECHANICAL ROOMS AND PENTHOUSES SHALL BE ANNUNCIATED SEPARATELY.

© GRIMM AND PARKER ARCHITECTURE, INC.
DRAFTING NOTES:

1. GFCI PROTECTED FROM FEEDER SWITCH TO SURFACE MOUNTED BOX.
2. FURNISH IN CONCRETE FROM FEEDER SWITCH TO SURFACE MOUNTED BOX.
3. ISSUE MOUNTED BOX AND BRACKET TO MATCH ENDS OF BOX.
4. FURNISH DRIED-IN CONDUIT BETWEEN CONDUIT OUTLET BOX TO UNDERGROUND CONDUIT IN WALL.
5. DISTANCE OF DRIED-IN CONDUIT TO BE DETERMINED BY CONTRACTOR.

ELECTRICAL SCHEDULE

<table>
<thead>
<tr>
<th>S. No</th>
<th>R.P.</th>
<th>KW</th>
<th>VOLTS</th>
<th>PH</th>
<th>AMP</th>
<th>K.P.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>AIR CURTAIN</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>WALL FAN</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>THERMAL MASTIC</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>PULL STATION DETAIL</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>FLOOR RECEPTACLE DETAILS</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>240</td>
<td></td>
<td></td>
<td></td>
<td>SUSPENDED RECEPTACLE DETAIL</td>
</tr>
</tbody>
</table>

KITCHEN EQUIPMENT CONNECTION SCHEDULE

NOTES:

1. ALL TECHNICAL INFORMATION AND SPECIFICATIONS ARE SUBJECT TO CHANGE. NO MATERIALS SHALL BE ORDERED OR PURCHASED WITHOUT WRITTEN APPROVAL, OR CONSTRUCTION COMPLETED BASED ON APPROVED PLANS AND SPECIFICATIONS.

2. ALL POWER TO KITCHEN EQUIPMENT SHALL BE SUPPLIED FROM A SUITABLE LOCAL FEEDER SWITCH..

3. ALL KITCHEN EQUIPMENT SHALL BE OPERATIONAL prior to final electrical work.

4. ALL ELECTRICAL WIRING TO BE PERFORMED IN CONFORMITY WITH LOCAL CODES AND NATIONAL ELECTRICAL CODE (NEC).

5. ALL WIRING TO BE PERFORMED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES.

FLOOR RECEPTACLE DETAILS

DRAWING NOTES:

- REFER TO DRAWING E-1.9 FOR LOCATION AND ELECTRICAL CONNECTIONS.
- ALL BOXES SHALL BE PROVIDED WITH TERMINAL BLOCKS AND CONNECTIONS.
- ALL ELECTRICAL BOXES SHALL BE PROVIDED WITH TERMINAL BLOCKS AND CONNECTIONS.
- ALL POWER TO KITCHEN EQUIPMENT SHALL BE SUPPLIED FROM A SUITABLE LOCAL FEEDER SWITCH.
- ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY THE KITCHEN/EQUIPMENT INSTALLER.
- ALL ELECTRICAL BOXES SHALL BE PROVIDED WITH TERMINAL BLOCKS AND CONNECTIONS.
- ALL POWER TO KITCHEN EQUIPMENT SHALL BE SUPPLIED FROM A SUITABLE LOCAL FEEDER SWITCH.
- ALL ELECTRICAL BOXES SHALL BE PROVIDED WITH TERMINAL BLOCKS AND CONNECTIONS.
- ALL POWER TO KITCHEN EQUIPMENT SHALL BE SUPPLIED FROM A SUITABLE LOCAL FEEDER SWITCH.
- ALL ELECTRICAL BOXES SHALL BE PROVIDED WITH TERMINAL BLOCKS AND CONNECTIONS.
- ALL POWER TO KITCHEN EQUIPMENT SHALL BE SUPPLIED FROM A SUITABLE LOCAL FEEDER SWITCH.
<table>
<thead>
<tr>
<th>PANEL</th>
<th>LOCATION, PROJECT, LTH, AN</th>
<th>PANEL SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANEL L1</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L2</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L3</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L4</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L5</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L6</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L7</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L8</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L9</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L10</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
<tr>
<td>PANEL L11</td>
<td>ENFACE, CENTRE, LEFT, AN</td>
<td>(Panel Schedules)</td>
</tr>
</tbody>
</table>

**URBANA ELEMENTARY SCHOOL REPLACEMENT**

**FREDERICK COUNTY, MARYLAND**

**01/10/2019**

**BID SET**

**© GRIMM AND PARKER ARCHITECTURE, INC.**

**DATE**

**DESCRIPTION**

**01/10/2019**

**BID SET**

**© GRIMM AND PARKER ARCHITECTURE, INC.**

**Gipe Associates Inc.**

**Consulting Engineers**

**Baltimore, Maryland**

**Easton, Maryland**

**1220 East Joppa Road, Suite 223 Towson, MD 21286**

**E-7.1**

**PANEL SCHEDULES**
### MECHANICAL EQUIPMENT CONNECTION SCHEDULE

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Color</th>
<th>Model</th>
<th>System</th>
<th>Node</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chiller 1</td>
<td>Blue</td>
<td>160</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Chiller 2</td>
<td>Gray</td>
<td>150</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Condenser 1</td>
<td>Green</td>
<td>140</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Condenser 2</td>
<td>Yellow</td>
<td>130</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Condenser 3</td>
<td>Red</td>
<td>120</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Condenser 4</td>
<td>Orange</td>
<td>110</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Condenser 5</td>
<td>Pink</td>
<td>100</td>
<td>30</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical Equipment Notes:**
- Chiller 1 and Chiller 2 are connected to the main electrical panel via 400A circuits.
- Condenser 1 to 5 are connected to the main electrical panel via 250A circuits.
- All equipment is connected to the building's main water supply via 3" pipes.
- System connections are marked with colored tags for easy identification.
- All equipment is scheduled for maintenance every 3 months.
8" SW, 8,300 SF, 276 GPM
(I.E. 443.00') REFER TO CIVIL
DRAWINGS FOR CONTINUATION.

6" SAN
(I.E. 439.00') REFER TO CIVIL
DRAWINGS FOR CONTINUATION.
PARTIAL SECOND FLOOR PLAN - AREA A

REFER TO SHEET P-2.6 FOR CONTINUATION.
1. Coordinate location of overflow nozzle discharge with the architectural elevations. Discharge location thru wall shall be above ceilings.

2. For additional sizing refer to riser diagrams, details, and plumbing fixture connection schedule.

GENERAL NOTES:

- This drawing and the design and construction features disclosed are proprietary to Gipe Associates, Inc. and shall not be altered or reused in whole or in part without the express written permission of Gipe Associates, Inc.

- Copyright © 2019 Gipe Associates, Inc.

- Consulting Engineers

- Baltimore, MD

- Easton, MD

- W.O. #

- 1220 East Joppa Road, Suite 223, Towson, MD 21286

- 11720 Beltsville Drive

- Suite 600

- Calverton, MD 20705

- Tel: 301.595.1000

- © Grimm and Parker Architecture, Inc.

- www.grimmandparker.com

- Professional Certification:

- I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 35222, Expiration Date: 01/05/2020.
1. THE ENTIRE POTABLE WATER SYSTEM AND ALL ITS COMPONENTS SHALL COMPLY WITH NSF 61-ANNEX G, NSF 372, AND ALL MARYLAND STATE "LEAD FREE" PLUMBING LAWS AND GUIDELINES.

2. PROVIDE DRIP PAN AND LIQUID SENSOR BELOW TRAPS FOR SANITARY PIPING SERVING FLOOR DRAINS ON THE SECOND FLOOR AREAS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3. FOR ADDITIONAL SIZING REFER TO RISER DIAGRAMS, DETAILS AND PLUMBING FIXTURE CONNECTION SCHEDULE.
6"ø DRYER EXHAUST UP TO PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.

6"ø DRYER EXHAUST DN TO DRYER. DUCT SHALL BE INSTALLED BELOW 22x12 R/A W/O. CONTRACTOR SHALL MAKE FINAL CONNECTION.

16x4 E/A DN TO DISHWASHER. CONTRACTOR SHALL MAKE FINAL CONNECTION.

20x12 O/A UP TO PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.

20x30 R/A UP TO AHU-1 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.

24x12 S/A AND 22x12 R/A UP TO DOAS-3 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.

34x24 R/A UP TO AHU-2 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.

6x12 E/A UP TO F-7 ON ROOF. FOR MORE INFORMATION, REFER TO DRAWING M-2.9.

THIS DRAWING AND THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO GIPE ASSOCIATES, REUSED IN WHOLE OR IN PART PER PERMISSION OF GIPE ASSOCIATES, INC.

Gipe Associates, Inc.  Consulting Engineers  1220 East Joppa Road, Suite 223, Towson, MD 21286

© GRIMM AND PARKER ARCHITECTURE, INC.
VARIABLE REFRIGERANT CONDENSING UNIT SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

ELECTRIC UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

PUMP SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

ELECTRIC BASEBOARD RADIATION SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

ELECTRIC WALL-MOUNTED HEATER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

AIR DEVICE SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

LINEAR SLOT DIFFUSER SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>AREA COVERED</th>
<th>UNIT LOCATION</th>
<th>CAPACITY</th>
<th>COP</th>
<th>COP</th>
<th>MODULE</th>
<th>SIZE</th>
<th>INSTALLATION</th>
<th>MAINTENANCE</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>1-10</td>
<td>101-120</td>
<td>1000</td>
<td>12</td>
<td>1.5</td>
<td>10</td>
<td>1.5</td>
<td>1.2</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 2</td>
<td>11-20</td>
<td>121-140</td>
<td>1500</td>
<td>15</td>
<td>2</td>
<td>15</td>
<td>2</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 3</td>
<td>21-30</td>
<td>141-160</td>
<td>2000</td>
<td>20</td>
<td>2.5</td>
<td>20</td>
<td>2.5</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>UNIT 4</td>
<td>31-40</td>
<td>161-180</td>
<td>2500</td>
<td>25</td>
<td>3</td>
<td>25</td>
<td>3</td>
<td>1.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

NOTE 1: REFER TO INSTRUCTIONS ENCODED FOR LOCATIONS.
2. 1-5 DEGREES SHALL BE ADJUSTED TO A DEGREE TOWARD

MECHANICAL EQUIPMENT SCHEDULES

M-9,2

GRIMM AND PARKER ARCHITECTURE, INC.

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

01/10/2019
BID SET

Gipe Associates Inc.
Consulting Engineers
Baltimore, Maryland
Easton, Maryland
1220 East Joppa Road, Suite 223 Towson, MD 21286

© GRIMM AND PARKER ARCHITECTURE, INC.
DRAWING NOTES

STACKED GEOTHERMAL CIRCUIT PIPING IN COMMON TRENCH

GEOTHERMAL TEST BOREHOLE #1 MAIN MECHANICAL ROOM. REFER TO DRAWING M-3.1 FOR ADDITIONAL INFORMATION.

DESIGN CRITERIA

1. 80 WELLS @ 500 FEET EACH.
2. 1.20 GROUT THERMAL CONDUCTIVITY.
3. 1.39 SOIL THERMAL CONDUCTIVITY.
4. 0.90 SOIL THERMAL DIFFUSIVITY.

© GRIMM AND PARKER ARCHITECTURE, INC.

DATE
DESCRIPTION

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND
01/10/2019
BID SET
Gipe Associates Inc.
Consulting Engineers
Baltimore, Maryland
Easton, Maryland
1220 East Joppa Road, Suite 223 Towson, MD 21286

MS-2.0
SITE PLAN - MECHANICAL
DRAWING NOTES

1. REVEAL IN SATRASHI
2. SEI GEOTERMAL CONDUCTIVITY
3. SEI GEOTERMAL CONDUCTIVITY
4. SEI GEOTERMAL CONDUCTIVITY
TO BE POURED IN PLACE OVER VAPOR BARRIER AND AGGREGATE BASE. RE. SOIL REPORT.

6.   THE CONSTRUCTION MANAGER IS TO COORDINATE THE LOCATIONS, SIZE & INVERT ELEVATIONS w/ THE MECHANICAL ENGINEERS & MECHANICAL SUBCONTRACTORS. LOWER THE FOOTING ELEVATIONS (SHOWN ON THE DRAWING) AS DESIGNS INCORPORATED HEREIN.

WHEREVER AN INTERIOR NON-BEARING WALL OCCURS AT A CONSTRUCTION JOINT OR CONTROL JOINT, THE STUD WALL & THE SLAB OR ANGLES 2'-0" & BEAM & BEAM.

BEARING CAPACITY OF THE COLUMN / PIER FOOTING AREA AS SHOWN ON THE PLAN OR SCHEDULE (5 kips x THE FOOTING AREA).

EXPANSION JOINTS.

© GRIMM AND PARKER, P.C. 2013

© GRIMM AND PARKER ARCHITECTURE, INC. 2016
1. T/D PL. TO BE PREPARED & SUBMITTED TO THE ARCHITECT FOR REVIEW. BEARING CAPACITY OF THE COLUMN / PIER FOOTING AREA AS SHOWN ON THE PLAN OR SCHEDULE (5 kips x THE FOOTING AREA).

2. NONBEARING PARTITION WALLS ARE SHOWN ONLY FOR CLARITY OF NEW STRUCTURAL ELEMENTS. THIS DRAWING IS FOR LOCATION, GROUT IN SOLID POUR OR CORE DRILLED, SIZE TO BE DETERMINED BY ARCHT.

3. WHEREVER AN INTERIOR NON-BEARING WALL OCCURS AT A CONSTRUCTION JOINT OR CONTROL JOINT, SEE SECTION 1/S-1.4 FOR POST EMBEDDED POST, RE. ARCH'T. DWGS.

4. HOWEVER, WHERE AND HOW IT IS TO BE DETERMINED BY ARCHT.

5. THE CONSTRUCTION MANAGER IS TO COORDINATE THE LOCATIONS, SIZE & INVERT ELEVATIONS w/ THE MECHANICAL SERVICE, IS THE PROPERTY OF WOLFMAN & ASSOCIATES, P.C AND DESIGN INCORPORATED HEREIN,

6. THE MANAGER IS TO COORDINATE THE LOCATIONS, SIZE & INVERT ELEVATIONS w/ THE MECHANICAL SERVICE, IS THE PROPERTY OF WOLFMAN & ASSOCIATES, P.C AND DESIGN INCORPORATED HEREIN,

7. SEE ARCHITECTURAL DWGS. AND SPECIFICATIONS FOR LOCATIONS AND REQUIREMENTS OF CMU & BRICK WALL FRAMING PLANS & DETAILS

8. THE MANAGER IS TO COORDINATE THE LOCATIONS, SIZE & INVERT ELEVATIONS w/ THE MECHANICAL SERVICE, IS THE PROPERTY OF WOLFMAN & ASSOCIATES, P.C AND DESIGN INCORPORATED HEREIN,

9. WHEREVER AN INTERIOR NON-BEARING WALL OCCURS AT A CONSTRUCTION JOINT OR CONTROL JOINT, SEE SECTION 1/S-1.4 FOR POST EMBEDDED POST, RE. ARCH'T. DWGS.

10. THE MANAGER IS TO COORDINATE THE LOCATIONS, SIZE & INVERT ELEVATIONS w/ THE MECHANICAL SERVICE, IS THE PROPERTY OF WOLFMAN & ASSOCIATES, P.C AND DESIGN INCORPORATED HEREIN,
SECOND FLOOR FRAMING PLAN

OVER 2" 20 Ga. COMPOSITE METAL DECK U.N.O. SEE TYPICAL DETAILS ON SHT. S-5.2. DECK SPAN DIRECTION

STEEL BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMNS UNLESS OTHERWISE DIMENSIONED ON PLAN.

COMPOSITE BEAMS SHALL HAVE 3/4"Ø x 3 1/2" HEADED STUDS, THE NUMBERS ARE SHOWN (X) ON PLAN.

WHERE SHOWN = 1/2" w/ BEAM SIZES DENOTES TO PROVIDE 1/2" CAMBER AT THE MID SPAN OF BEAM.

ALL STEEL BEAMS & COLUMNS ADJACENT TO MASONRY WALLS SHALL HAVE FLEXIBLE MASONRY TIES @ 16"o.c.

THE CONSTRUCTION MANAGER MUST TAKE INTO ACCOUNT & PROVIDE FOR THE ADDITIONAL CONCRETE NECESSARY

TO PROVIDE LATERAL CONNECTIONS TO TABLE 'GROUT PROPORTIONS BY VOLUME

SHEAR WALL SW SEE DETAIL

SCALE: 1 inch = 8 feet

4' - 0"  W12X14
8' - 9 5/8"  W16X26
3' - 6"  W8X10
4' - 0"  W21X50
2' - 7 5/8"  W16X26
8" - 0"  W16X26 w/ 6x6-W2.0/W2.0 W.W.F. ON 2"
8' - 4 1/2"  W12X19
6" - 0"  W16X26
6' - 8"  W21X50
3' - 10"  W21X50
2' - 7 1/2"  W16X26
8' - 4 1/2"  W16X26
6" - 0"  W12X14
3' - 6"  W12X19
30' - 0"  W8X13
15' - 8"  8x1
13' - 0"  W18X40
10' - 2 1/8"  W18X35
9' - 0"  W16X26
8' - 0"  W18X40
7' - 0"  W12X14
16' - 0"  W18X40
14' - 0"  W18X35
12' - 0"  W16X26
10' - 2 1/8"  W16X26
8' - 0"  W16X26
6' - 0"  W16X26
4' - 0"  W16X26
2' - 0"  W16X26
0' - 0"  W16X26

49k
1. Top of finish slab elevation shall be +14'-8" above finish floor below.

2. Consulting structural engineers.

3. 18 ga. metal.

4. 4 1/2" normal wt. conc. slab.

5. Composite beams shall have 3/4"Ø x 3 1/2" headed studs, the numbers are shown (X) on plan.

6. Designs incorporated herein, all openings in masonry walls shall have a lintel. For lintels marked thus: L-x see Sht. S-3.1; W12x14 - S-1.7 & S-1.8 for structural notes & typical details.

7. For all wall locations.

8. Grout cells solid where rebars occurs or as indicated on the drawings w/ coarse grout according to elevation +0'-0" on plan are tops of steel beams taken above first floor elevation 000.00'.

9. 0" - 5'.

10. Grount cells solid where rebars occurs or as indicated on the drawings w/ coarse grout according to elevation +0'-0" on plan are tops of steel beams taken above first floor elevation 000.00'.

11. 0" - 5'.

12. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

13. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

14. 0" - 5'.

15. Openings thru type b roof deck.

16. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

17. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

18. Openings thru type b roof deck.

19. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

20. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

21. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

22. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

23. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

24. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

25. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

26. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

27. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

28. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

29. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

30. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

31. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

32. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

33. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

34. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

35. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

36. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

37. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

38. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

39. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

40. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

41. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

42. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

43. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

44. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

45. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

46. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.

47. Beam bearing plate 10"x3/4"x8" w/ 2 - W8x10 (3) - S-4.3.
SECOND FLOOR FRAMING PLAN

1. Structural steel beams shall be -4 1/2" below finished slab elevation, U.N.O.

2. Metal stud framing, unless otherwise noted on plan, see structural notes on sheet S-5.1 for lintel schedules.

3. Coordinate with construction manager & architectural drawings for locations of roof drains. Provide an angle lap splice as required.

4. Composite beams shall have 3/4"Ø x 3 1/2" headed studs, the numbers are shown (X) on plan.

5. Coordinate with mechanical dwgs. for openings thru the slab locations & dimensions. See details 22/S-5.2 & 26/S-5.2 for opening framing details.

6. GROUT CELLS SOLID WHERE REBARS OCCURS OR AS INDICATED ON THE DRAWINGS w/ COARSE GROUT ACCORDING BY VOLUME FOR MASONRY CONSTRUCTION on SHT. S-3.1, PROVIDE METAL STUD FRAMING, UNLESS OTHERWISE NOTED ON PLAN, SEE THE STRUCTURAL NOTES ON SHEET S-5.1 FOR LINTEL SCHEDULES.

7. Tops of structural steel beams shall be -4 1/2" below finished slab elevation, U.N.O.

8. Metal stud framing, unless otherwise noted on plan, see structural notes on sheet S-5.1 for lintel schedules.

9. Coordinate with construction manager & architectural drawings for locations of roof drains. Provide an angle lap splice as required.

10. Composite beams shall have 3/4"Ø x 3 1/2" headed studs, the numbers are shown (X) on plan.

11. Coordinate with mechanical dwgs. for openings thru the slab locations & dimensions. See details 22/S-5.2 & 26/S-5.2 for opening framing details.

12. GROUT CELLS SOLID WHERE REBARS OCCURS OR AS INDICATED ON THE DRAWINGS w/ COARSE GROUT ACCORDING BY VOLUME FOR MASONRY CONSTRUCTION on SHT. S-3.1, PROVIDE METAL STUD FRAMING, UNLESS OTHERWISE NOTED ON PLAN, SEE THE STRUCTURAL NOTES ON SHEET S-5.1 FOR LINTEL SCHEDULES.

13. Tops of structural steel beams shall be -4 1/2" below finished slab elevation, U.N.O.

14. Metal stud framing, unless otherwise noted on plan, see structural notes on sheet S-5.1 for lintel schedules.

15. Coordinate with construction manager & architectural drawings for locations of roof drains. Provide an angle lap splice as required.

16. Composite beams shall have 3/4"Ø x 3 1/2" headed studs, the numbers are shown (X) on plan.

17. Coordinate with mechanical dwgs. for openings thru the slab locations & dimensions. See details 22/S-5.2 & 26/S-5.2 for opening framing details.

18. GROUT CELLS SOLID WHERE REBARS OCCURS OR AS INDICATED ON THE DRAWINGS w/ COARSE GROUT ACCORDING BY VOLUME FOR MASONRY CONSTRUCTION on SHT. S-3.1, PROVIDE METAL STUD FRAMING, UNLESS OTHERWISE NOTED ON PLAN, SEE THE STRUCTURAL NOTES ON SHEET S-5.1 FOR LINTEL SCHEDULES.

19. Tops of structural steel beams shall be -4 1/2" below finished slab elevation, U.N.O.

20. Metal stud framing, unless otherwise noted on plan, see structural notes on sheet S-5.1 for lintel schedules.

21. Coordinate with construction manager & architectural drawings for locations of roof drains. Provide an angle lap splice as required.

22. Composite beams shall have 3/4"Ø x 3 1/2" headed studs, the numbers are shown (X) on plan.

23. Coordinate with mechanical dwgs. for openings thru the slab locations & dimensions. See details 22/S-5.2 & 26/S-5.2 for opening framing details.
ELEVATIONS SHOWN +0'-0" ON PLAN ARE TOPS OF STEEL BEAMS TAKEN ABOVE FIRST FLOOR ELEVATION 000.00'.

SILVER SPRING, MD  20910

AS AN INSTRUMENT OF PROFESSIONAL

L

W16X26

26' - 0"

W14X22

24' - 0 3/8"

W14X22

20K4

S-1.9

W18X35

L6x

S-4.6

20K4

S-4.3

W18X35

RF

3.2 FOR

20K5

5' - 7"

7"

D

+29'

4' - 5 1/2"

7"

E

+29'

1' - 8 1/4"

W14X22

5' - 2"

W14X22

3 (DECK SUPPORT 3)

5' - 2"

+30'

+29'

S-1.10

DS

-9 3/4"

-5

B

GP #21740

-5

-7"

F

-9 1/2"

-7"

-4 1/2"

-3"

A

-9 1/2"

-5"
3. Typical roof deck shall be 1 1/2" 22 Ga. Galv. Type `B' metal deck unless otherwise noted on plan.

4. Each roof top unit has weight as indicated on plan. Any changes on the unit weight & location of the `RTU' should be brought to the attention of the structural engineer for possible design. Coordinate with the mechanical equipment. The curb must span between joist (see mechanical dwgs.) unless otherwise noted.

5. Coordinate with construction manager & architectural drawings for locations of roof drains. Provide an angle of 1 1/2" = 1'-0".

6. Provide horizontal or diagonal bridging in accordance with S.J.I. requirements u.n.o. on plan. All bridging shall be in accordance with S.J.I. requirements unless otherwise noted on plan.

7. Provide horizontal or diagonal bridging in accordance with S.J.I. requirements unless otherwise noted on plan.

8. Slope of roof shall be +2 1/2" above top of steel beam u.n.o. on plan.

9. Slope indicates the beam shall have a camber of X" @ the center of the span.
1. Elevations shown +0' - 0" on plan are tops of steel beams taken above first floor elevation 000.00'.

   TOP OF STEEL JOIST SHALL BE +2 1/2" ABOVE TOP OF STEEL BEAM U.N.O. ON PLAN.

   (       =X") INDICATES THE BEAM SHALL HAVE A CAMBER OF X" @ THE CENTER OF THE SPAN.

2. S.P. DENOTES 'SPECIAL JOIST', EXTEND BOTTOM CHORD TO BEAM OR COLUMN. SEE DETAILS ON SHEET S-5.2.


4. Joist manufacturer shall design the joist for an additional load for the basketball goal support framing. The joist manufacturer to provide 56d lap splice as required.

5. Coordinate with construction manager & architectural drawings for location of roof drains. Provide an angle frames around roof drains. See S-5.2 for angle frame details.

6. The joist manufacturer shall design the joist for an additional load for the basketball goal support framing. The joist manufacturer to provide 56d lap splice as required.

7. JOIST SIZE

8. SCALE: 3/4"=1'-0"

9. HIGH ROOF

10. SCALE: 3/4"=1'-0"

11. HIGH ROOF

12. SCALE: 3/4"=1'-0"

13. HIGH ROOF

14. SCALE: 3/4"=1'-0"

15. HIGH ROOF

16. SCALE: 3/4"=1'-0"

17. HIGH ROOF

18. SCALE: 3/4"=1'-0"

19. HIGH ROOF

20. THE JOIST MANUFACTURER SHALL DESIGN THE JOIST FOR AN ADDITIONAL LOAD FOR THE BASKETBALL GOAL SUPPORT FRAMING. THE JOIST MANUFACTURER TO PROVIDE 56D LAP SPLICE AS REQUIRED.
SCALE: VARIES RE. 1'-6" 1'-6" 1'-6"

11/4"

RE. THE PLAN

W12x14 6x6-W2.0/W2.0 W.W.F. ON 4 1/2" CONC. SLAB w/ 2" 20 Ga. COMPOSITE DECK

ARCH'T. 8" CMU WALL BEYOND

W12x14 W12x14

S-1.13

2nd FLOOR

W12x14

#4x36" Lg. @ 12"o.c. PLACED BETWEEN THE FLOOR DECK RIBS

STAIR W12x14 SHOP WELD TO THE BEAM L4x4x1/4 CONT. EDGE FORM 5/8 @ 6" 8" CMU SEE DETAIL 19/S-5.2

COLUMN & BEAM LC

3/4"=1'-0"

1.2

6

7.2

8

E

F

F'

E.9

W12X14 (6)

W16X26 (12)

W16X26 (12)

W16X26 (12)

W16X26 (12)

W16X26 (12)

W18X40 (3)

W18X40 (3)

W18X35 (6)

OPEN W8X15 (3) + MC8X18.7

. 0"

. 0"

REFER TO DETAIL 9/S-5.1 FOR THE STAIR BASE ANCHORAGE DETAIL

18033

FAX# 301-587-0470

PH# 301-587-0260

CONSULTING STRUCTURAL ENGINEERS

SILVER SPRING, MD  20910

8720 GEORGIA AVE. #908

WOLFMAN & ASSOCIATES, P.C.

OWNERSHIP OF DOCUMENTS AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF WOLFMAN & ASSOCIATES, P.C AND IS NOT TO BE USED, IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WOLFMAN & ASSOCIATES, P.C.

THIS DOCUMENT, THE IDEAS AND DESIGNS INCORPORATED HEREIN, W&A JOB#: UNDER THE LAWS OF THE STATE OF MARYLAND, I HERE BY CERTIFY THAT THESE PROFESSIONAL CERTIFICATION DOCUMENTS WERE PERPARED OR APPROVED BY ME, AND I AM A DULY LICENSED PROFESSIONAL ENGINEER.
## SHEAR WALL SCHEDULE

<table>
<thead>
<tr>
<th>WALL NAME</th>
<th>END ZONE</th>
<th>MIDDLE ZONE</th>
<th>THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMU 8&quot;</td>
<td>6&quot; C慕</td>
<td>10&quot; C慕</td>
<td>12&quot; C慕</td>
</tr>
<tr>
<td>CMU 10&quot;</td>
<td>6&quot; C慕</td>
<td>10&quot; C慕</td>
<td>12&quot; C慕</td>
</tr>
<tr>
<td>CMU 12&quot;</td>
<td>6&quot; C慕</td>
<td>10&quot; C慕</td>
<td>12&quot; C慕</td>
</tr>
</tbody>
</table>

### MIDDLE ZONE

- **CAPACITY**: PLACE BARS BOTTOM CAVITY
- **MARK**: #4 @ 72" o. c.
- **REMARKS**: PH# 301-587-0260

### END ZONE

- **MARK**: #6@16" o. c.
- **REMARKS**: FAX# 301-587-0470

---

### WALL

- **8" CMU**: 10" CMU: 12" CMU: 16" CMU

---

### Lintel Details

- **B**: CONSTRUCT CLEANOUTS SO THAT THE SPACE TO BE GROUTED CAN BE CLEANED AND INSPECTED.
- **A**: PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN THE GROUT

---

### Typical Details

- **SEE DETAIL A-S-3.1**: 13 < H
- **SEE DETAIL A-S-3.1**: 17 < H
- **SEE DETAIL A-S-3.1**: 19 < H
- **SEE DETAIL A-S-3.1**: 23 < H
- **SEE DETAIL A-S-3.1**: 27 < H

---

### Steel Rebar Schedules

<table>
<thead>
<tr>
<th>SIZE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4</td>
<td>@ 72&quot; o. c.</td>
</tr>
<tr>
<td>#6</td>
<td>@ 48&quot; o. c.</td>
</tr>
</tbody>
</table>

---

### Steel Beam Bearing Plate Schedule

<table>
<thead>
<tr>
<th>BEAM SIZE</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>W8x10 W.W.F</td>
<td></td>
</tr>
</tbody>
</table>
All masonry construction shall be in accordance with the Building Code Requirements and Specifications for Masonry Structures ACI 530.1-05/ASCE 6-05. Bearing walls, partitions and piers to consist entirely of load bearing masonry. Tracks shall be securely anchored to the supporting structure by welding, power driven anchors, or by screw, whichever is appropriate. Studs shall be seated squarely in the track with stud flanges abutting track flanges. Studs shall be supported by the track at all points of contact. Tracks shall be made of a material having a minimum tensile strength of 15,000 psi and shall be not less than 1/2" thick. The width of the track shall be not less than 2".

ICEC 2015 SCHEDULE ON SHEET

SEE PLAN FOR WALL TYPE

80 psf Corridors

& #3 @ 24"o.c.

JOINT SHALL BE PLACED AFTER ADJACENT SLAB AREAS HAVE BEEN POURED

ISOLATION JOINT

SILVER SPRING, MD  20910

MAX. 8" x 'H' MIN. CLASS 'B'

MAX. 3" CL.

MIN. 1/2" LAP

Ct = 1.0

= 23.1 psf Pf (min)

Basic Wind Speed: 120 mph

Building was designed for 27 psf

Risk Category: III

Importance Factor: 1.15

Seismic Design Category: A

EACH SIDE TO SUPPORT THE SLAB WHEN THIS DIMENSION EXCEEDS 2'-0"

PLAN VIEW

FOUNDATION BEARING:

CONSTRUCTION SAFETY:

MECHANICAL OPENINGS:

BACKFILL:

REINFORCING STEEL:

ASTM Specification for “Compression Tests of Concrete”. A minimum of 5 field cured test cylinders shall be made for each 50 cubic yards of concrete placed; two tested at seven days and two tested at twenty-eight days; one reserved for a later test.

Design, Fabrication and Erection of Structural Steel for Buildings”. All structural steel shall be of domestic origin, unless otherwise noted. All wide flange beams and angles shall conform to ASTM A 992 grade 50 steel. All round steel pipe columns shall be ASTM Grade B or A501. All square and rectangular steel tube columns shall be ASTM A500 Grade B. Where noted FY50, structural steel sections shall conform to ASTM A572, Grade 50. Figures (10 kips or more) shown at ends of beams indicate the location of reinforcing steel.

Concrete mix design according to ACI requirements. Mortar mix design, horizontal masonry joint reinforcing. Concrete/Masonry Reinforcing Steel. Structural Steel. Steel Joists. * Light Gage Steel Framing. Metal Deck.

The review of shop drawings by the Structural Engineer of record does not relieve the contractor, subcontractor or fabricator from meeting the requirements of the design documents. A minimum of two weeks shall be allowed for the Structural Engineer of record to review any submittal.

1. Concrete mix design according to ACI requirements.2. Mortar mix design, horizontal masonry joint reinforcing.3. Concrete/Masonry Reinforcing Steel.4. Structural Steel.5. Steel Joists.6.* Light Gage Steel Framing.7. Metal Deck.

The review of shop drawings by the Structural Engineer of record does not relieve the contractor, subcontractor or fabricator from meeting the requirements of the design documents. A minimum of two weeks shall be allowed for the Structural Engineer of record to review any submittal.
1. **Equipment Only.** See Architectural/Engineering Plans for additional locations and heights, including required materials such as stops, mixing valves, filters, traps, check valves, piping, tubing, etc. to assure proper operation according to manufacturer's recommendations and local codes.

2. **Rough In outlets to stub 4" out of walls at height indicated from 2'-0" - 1' - 11". Sealed Watertight.

3. **Pressure Reducing and/or Regulating Valves for Dishwashers, H.C.**

4. **All Floor Sinks, complete with top grates indicated, and removable sediment buckets set flush with finish floor, unless noted.**

5. **Indirect Waste Lines for walk-in cooler/freezer blower coils shall be pitched - D.F. W/P trap by P.C., or equivalent, shall interconnect dishmachine with booster heater, and water manifold.**

6. **All exposed piping and fittings in kitchen areas shall be chrome.**

7. **All lines routed through equipment shall not interfere with intended area.**

8. **Individual ball valves.**

9. **Electric heater spiraled and master gate valve for entire manifold.**

10. **Scale: NTS.**

11. **KITCHEN EQUIPMENT PLAN**

12. **PLUMBING SYMBOLS**

A. **Abbrivation**

B. **Symbol**

C. **Description**

13. **Area Schedule**

14. **Plumbing Schedule**

15. **K. E. C.**
HANGING ANGLE DETAIL

HANGING ANGLE

ONE ABOVE AND ONE BELOW

1/2" DIA. HEAVY DUTY NUT

ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR

HANGING ANGLE IS PRE-PUNCHED AT FACTORY THROUGH ANOTHER HANGING CONNECTED TO ROOF JOIST

1/2" DIA. ALL THREAD ROD

12 0 3 12" x 12" LED NO NO 564

FILTER(S)

TYPE QTY. HEIGHT LENGTH EFFICIENCY

@ 7 MICRONS

LIGHT(S)

QTY. TYPE WIRE

GUARD

UTILITY CABINET(S)

LOCATION SIZE

FIRE SYSTEM

TYPE SIZE

ELECTRICAL

MODEL #

SWITCHES

QUANTITY

HOOD INFORMATION - Job#3442053

12 06630 VHB-G-PSP-F 12' 0" 700 Deg. 1800 14" 15" 4" 1800 1234 -0.158" 1440 304 SS

100% ALONE ALONE

TAG MODEL LENGTH

MAX.

COOKING TEMP.

EXHAUST PLENUM

TOTAL EXH. CFM

RISER(S)

WIDTH LENG. HEIGHT DIA. CFM VEL. S.P.

TOTAL SUPPLY CFM

HOOD CONSTRUCTION

HOOD CONFIG.

END TO END ROW

HOOD ACCESSORIES

FIELD WRAPPER 18.00" High    Front, Left, Right
BACKSPLASH 80.00" High  X 144.00" Long    304 SS  Vertical

STRUCTURAL FRONT PANEL

TAG OPTION

PERFORATED SUPPLY PLENUM(S)

1 20 Front 144" 12" 12" MUA

MUA

10"

28"

720

0.189"

TAG POS. LENGTH WIDTH HEIGHT TYPE

RISER(S)

WIDTH LENG. DIA. CFM S.P.

HANGING ANGLE

12" X 12" RECESSED LED LIGHT, 4K NATURAL OUTPUT.

23.5% OPEN STAINLESS STEEL PERFORATED PANEL

ATTACHING PLATES

SUPPLY RISER WITH VOLUME DAMPER

12" 2 3/4" 12" 18"

CAPTIVE-AIRE HOOD ARE BUILT IN COMPLIANCE WITH:

HOOD

NO.

HANGING

WGHT

IN WITH NFPA BUILT ACCORDANCE No. 96

C             US

LEAD BULBS BY K.E.C.

BULBS MUST BE RATED FOR 5000K COLOR TEMPERATURE

ETL LISTED #3054804-001

ETL SANITATION LISTED

NFPA #96

K-502 11/09/2020

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

© GRIMM AND PARKER ARCHITECTURE, INC.

www.grimmandparker.com
NOTE:
PROVIDE HIGH PERFORMANCE COATING ON ALL WALLS TO UNDERSIDE OF JOIST AND SEALED CONCRETE FLOOR.
1. REFER TO STRUCTURAL DRAWINGS FOR FOOTING ELEVATIONS.
2. MASONRY BOND PATTERN SHALL BE RUNNING BOND UNLESS OTHERWISE INDICATED. REFER TO LARGE SCALE ELEVATION DETAILS FOR MASONRY PATTERNS, BONDING, SPECIAL SHAPES AND MORTAR COLOR PATTERNS.
3. PROVIDE SEALANT AT ALL INTERSECTIONS OF DISSIMILAR MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL EXTERIOR SEALANTS TO BE A CUSTOM COLOR SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLOR MAY BE SELECTED FOR USE ALONG THE HEIGHT OF THE SAME JOINT TO MATCH ADJOINING MASONRY OR MORTAR.
4. ALL EXTERIOR EXPOSED STEEL TO BE FIELD PAINTED UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY THE ARCHITECT.
5. REFER TO SHEET A-5.4 FOR TYPICAL EXTERIOR CONTROL JOINT DETAILS AND NOTES.
6. REFER TO DRAWING A-5.4 FOR TYPICAL MASONRY DETAILS AND SPECIAL MASONRY SHAPES.
7. REFER TO TYPICAL ROOF FLASHING DETAILS ON SHEET A-5.4 FOR FLASHING REQUIREMENTS.

(Note: The notes apply to all elevation sheets.)

FIRST FLOOR
0' - 0"
SECOND FLOOR
14' - 8"
PRE-FIN. OVERFLOW SCUPPER NOZZLE, SEE PLUMB. DWGS
12' - 4" T.O. MTL STUD
32' - 0" PRE-FIN METAL PANEL, TYPE 2
T.O. MASONRY WALL
8" EXTERIOR FACE OF BRICK 2 COURSES 8"
EXTERIOR FACE OF BRICK 8"
PRE-FIN METAL COPING 4" BUILDING STONE
### FABRIC FINISH SCHEDULE

#### CEMENTITIOUS ACOUSTIC

<table>
<thead>
<tr>
<th>WALL NO.</th>
<th>NAME</th>
<th>FLOOR PLAN</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>A221 A</td>
<td>TOILET 7A RES CT CT CT CT APC3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A220 A</td>
<td>TOILET 7A RES CT CT CT CT APC3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A220 CLASSROOM 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A216 A</td>
<td>TOILET 7A RES CT CT CT CT APC3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A216 CLASSROOM 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A214 CLASSROOM 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A210 CLASSROOM 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A204 UTILITY 9 CONC CT CT CT CT EXP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A202 GUIDANCE 4 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A125A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A124 KINDERGARTEN 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A119 KINDERGARTEN 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A117A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A116A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A113A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A110B MDF 9 CONC NONE PTD PTD PTD PTD EXP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A104 AP OFFICE 4 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A102C STORAGE 4 VCT RES PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A102 HEALTH 4 RES RES PTD PTD PTD PTD APC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A101A CLOSET 4 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A022 CORRIDOR 1 VCT PT PTD PTD PTD PTD APC 9, 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A011 CORRIDOR 1 VCT PT PTD PTD PTD PTD APC2 9, 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B209A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B207A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B207 CLASSROOM 3 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B206 SPECIAL EDUCATION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B116A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B112A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B110A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B109 PLANNING 4 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B106A TOILET 7A RES RES CT CT CT CT APC3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B104A CALMING ROOM 3 RB RST PTD PTD PTD PTD APC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B102A IDF 9 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B101B CONFERENCE 4 VCT RST PTD PTD PTD PTD APC 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B101 MEDIA CENTER 4 VCT RST PTD PTD PTD PTD APC2 5, 8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B021 CORRIDOR 1 VCT PT PTD PTD PTD PTD APC 9, 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B015 VESTIBULE 2 VCT PT PTD PTD PTD PTD APC2 9, 10, 12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B013 CORRIDOR 1 VCT PT PTD PTD PTD PTD APC/APC2 9, 11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B012 CORRIDOR 1 VCT PT PTD PTD PTD PTD APC 9, 11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### WALLS:
- DESIGNATED AS GYPSUM BOARD WALL TYPES WITH TILE FINISH.
- PROVIDE TILE BACKER BOARD AT WALLS

#### WOOD SLAT CEILING

#### GLASS FIBER SANITARY CEILING

#### WOOD FLOORING

#### ATHLETIC RUBBER FLOOR

#### FLUID TILES

#### HYBRID RESILIENT TILE FLOORING

#### SEALED CONCRETE WITH HARDENER

#### FACTORY FINISHED STRUCTURAL, MECHANICAL, OR ELECTRICAL

#### PAINTED WALLS

#### WALL KEY

#### TYPICAL NOTES

1. **Painting**: Delineate areas to be painted with line rectangles.
2. ** DEMOLITION**: Areas designated for demolition or disposal.
3. ** EXCAVATION**: Indicate areas where excavation will occur.
4. ** ENHANCED EMISSIONS CONTROL**: Areas requiring enhanced emissions control measures.
5. ** WATER-STOP**: Areas requiring water-stop installation.
6. ** REMOVAL**: Areas to be removed or replaced.
7. ** EXPOSED STRUCTURE**: Areas where exposed structure is visible.

#### FINISH MATERIALS

#### FLOORS

#### BASES

#### CEILINGS

#### WALLS

#### TYPICAL FINISHES

#### NUMBERED REMARKS

1. **Painting**: Highlight areas specified for painting.
2. ** DEMOLITION**: Mark areas for demolition.
3. ** ENHANCED EMISSIONS CONTROL**: Indicate areas requiring enhanced emissions control.
4. ** WATER-STOP**: Areas requiring water-stop installation.
5. ** REMOVAL**: Mark areas for removal.
6. ** EXPOSED STRUCTURE**: Show areas with exposed structure.

#### PROVISIONS

- **PLANNING**
- **RESOURCE**
ROOM SIGNAGE

NOTE: WHERE SIGN CANNOT BE MOUNTED

TYPICAL DOOR NOTES

1. PROVIDE 1" UNDERCUT.
2. PROVIDE WITH CARD READER AND ASSOCIATED HARDWARE.
3. PROVIDE WITH MECHANICAL PUSH BUTTON COMBINATION LOCK.
4. SECURITY SYSTEM AI PHONE DOOR CONTROL
5. PROVIDE HARDWARE SO DOORS CAN OPEN 180 DEGREES.
6. SYSTEM TO CLOSE UPON ACTIVATION

SECURITY SYSTEM

- CONNECT TO FIRE ALARM
- SYSTEM TO CLOSE UPON ACTIVATION

NOTES FOR REMARKS COLUMN

- GRADE 2 BRAILLE
- SANS SERIF TYPE STYLE
- MIN. 1" CAP. HEIGHT
- TACTILE TEXT RAISED 1/32"
- MIN. 5/8" CAP. HEIGHT

TYPICAL DETAILS

- ROOM SIGNAGE
- DOOR. EXACT ROOM NUMBER TO BE
- ROOM SIGNS TO BE PROVIDED AT EVERY

GRAIN TYPE AND COLOR FOR EACH DOOR IN PAIR.

PROVIDE EXPOSED HARDWARE WITH BRUSHED

GP #21740
Suite 600
11/09/2020
www.grimmandparker.com

FREDERICK COUNTY, MARYLAND
**EXTERIOR WALL TYPES**

- **WITH NONCOMBUSTIBLE**
  - As shown with 5 5/8" CMU
  - 3" Vert. Galv. Z
  - 5/8" Gypsum Sheathing
  - Self adhered sheet air barrier
  - 7/8" Metal Wall Panel Type 1
    - 1/2" Foamed

- **RATED WALLS**
  - Where these walls are indicated, comply with the following:
    - 1 1/2" = 1'-0" 3 1/2" Sound attenuation
  - 7 5/8" - 3 HR.
  - 5 5/8" - 2 HR.
  - Comply with the code study for locations of rated walls. Where these walls are indicated, regular 6" Metal studs & 6" Sound insulation
  - 4 3/4" - 2 HR.
  - UL #U905 (8" CMU Min.)
  - UL #U906 (6" CMU Min.)

- **EXTERIOR WALL CONSISTING OF:**
  - 6" Metal studs w/ R 19 batt insulation
  - 5/8" Gypsum board
  - 1 1/2" Metal Wall Panel Type 1 or 2
  - 1/2" Air space

- **AS SHOWN WITH 7 5/8" CMU W/ 7/8" FURRING**
  - 1/2" Furring
  - 6" Metal studs w/ R 19 batt insulation
  - 5/8" Gypsum Board

- **AS SHOWN WITH 5 5/8" CMU W/ 7/8" FURRING**
  - 1/2" Furring
  - 4" Min.
  - 4 3/4" - 1/2" air space
  - 1" Deflection unless otherwise indicated
  - 1" Deflection unless noted otherwise
  - Place insulation between horizontal joint

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 4" Nom. Building Stone Veneer
  - 10" Nom. CMU
  - 8" Nom. CMU
  - 8" Nom. CMU

- **CHANNELS @ 16" OC**
  - 3 1/2" Sound attenuation
  - 1" Deflection unless otherwise indicated
  - Place insulation between horizontal joint
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 4.1 E3

- **EXTERIOR WALL CONSISTING OF:**
  - 6" Metal studs w/ R 19 batt insulation
  - 5/8" Gypsum board, typ., both sides
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled
  - 4.1 E3

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 6" Metal studs & 6" Sound insulation
  - 2 1/2" Metal Stud Framing

- **Note:** Where Type L walls are indicated, regular 6" Metal studs & 6" Sound insulation

- **EXTERIOR WALL CONSISTING OF:**
  - 6" Metal studs w/ R 19 batt insulation
  - 5/8" Gypsum board, typ., both sides
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled
  - 4.1 E3

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 4" Nom. Building Stone Veneer
  - 10" Nom. CMU
  - 8" Nom. CMU

- **CHANNELS @ 16" OC**
  - 3 1/2" Sound attenuation
  - 1" Deflection unless otherwise indicated
  - Place insulation between horizontal joint
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled
  - 4.1 E3

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 4.1 E3

- **EXTERIOR WALL CONSISTING OF:**
  - 6" Metal studs w/ R 19 batt insulation
  - 5/8" Gypsum board, typ., both sides
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled
  - 4.1 E3

- **NON-RATED CMU WALL**
  - 3 1/2" Sound attenuation
  - 1/2" Furring
  - 1/2" Furring
  - 1/2" Furring
  - 4" Nom. Building Stone Veneer
  - 10" Nom. CMU
  - 8" Nom. CMU

- **CHANNELS @ 16" OC**
  - 3 1/2" Sound attenuation
  - 1" Deflection unless otherwise indicated
  - Place insulation between horizontal joint
  - Fire rated deflection track
  - Anchors @ 16"
  - Ceiling as scheduled
  - 4.1 E3
NOTE 1

1. Identification of opening types as "Curtainwall" or "Storefront" is based on system requirements, size of opening, and installation condition. Provide subframing as shown on details and/or specified.

2. Contractors shall provide required tolerances in all dimensions needed to manufacture and install storefront systems, unless otherwise noted.

3. Center section of frames varies in width with respect to wall type. See plans for typical widths of returns on hollow metal frames.

4. Openings shall be identified with a number which corresponds to the number in the detail section.

5. Holes shall be provided for hardware as shown on details or as specified.

6. Contractors to coordinate required tolerances in all dimensions needed to manufacture and install storefront systems, unless otherwise noted.

7. Color shall be provided as shown on details or as specified.

8. Structural glass shall be 0.375" thick and consist of one piece of glass.

9. Structural glass shall be provided as shown on details or as specified.

10. Glass type shall be provided as shown on details or as specified.

11. Contractors to provide glass type key as shown on details or as specified.

12. Contractors to provide glass type key as shown on details or as specified.

13. Contractors to provide glass type key as shown on details or as specified.

14. Contractors to provide glass type key as shown on details or as specified.

15. Contractors to provide glass type key as shown on details or as specified.

16. Contractors to provide glass type key as shown on details or as specified.

17. Contractors to provide glass type key as shown on details or as specified.
METAL PANEL SYSTEM
SEE ELEVATIONS AND WALL SECTIONS

3" GALV. "Z" GIRTS SPACED PER METAL WALL PANEL SYSTEM REQUIREMENTS
NOT GREATER THAN 24" O.C.

2 1/2" FOAMED - IN PLACE INSULATION

3 1/2" GALV. "Z" AT HEAD CONDITION

CONT. FLEXIBLE FLASHING W/ FULL BOND TO ALUM. EXTRUSION - EXTEND VERT. 8" MIN. ABOVE OPNG., SECURE W/ TERMINATION BAR, PROVIDE END DAMS @ BOTH SIDES OF OPNG.

CONTINUOUS AIR BARRIER TRANSITION MEMBRANE FROM SEALANT @ BACK OF FRAME TO OVERLAP 4" MIN BEHIND FOAMED - IN PLACE INSULATION

6"X4"X1/2" STRUCTURAL THERMAL BREAK MATERIAL AT POINTS OF ATTACHMENT

CONT. GALVANIZED STEEL BENT PLATE BY CFMF CONTRACTOR - SHALL BE ENGINEERED FOR STOREFRONT SYSTEM DESIGN LOADS

PRE - FIN. ALUM. METAL PANEL BASE EXTRUSION

CONTINUOUS AIR BARRIER TRANSITION MEMBRANE FROM SEALANT @ BACK OF FRAME TO OVERLAP 4" MIN BEHIND FOAMED - IN PLACE INSULATION

CONT. GALVANIZED STEEL BENT PLATE - SHALL BE ENGINEERED FOR STOREFRONT SYSTEM DESIGN LOADS

PRE - FIN. ALUM. METAL PANEL SILL EXTRUSION

5/8" GYPSUM SHEATHING

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE NUMBER , EXPIRATION DATE .
GENERAL NOTE APPLICABLE TO ALL DRAWINGS

- ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. TYPICAL CEILING HEIGHT SHALL BE 9'-0" UNLESS OTHERWISE INDICATED ON REFLECTED CEILING PLANS. TOILETS AND STORAGE ROOMS TO BE 9'-0".

2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT PATTERN AND EXIT LIGHT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO SHOP DRAWINGS.

3. ALL WALLS SHOWN EXTEND TO THE STRUCTURAL DECK (SEE WALL TYPES). AT CORRIDOR CHASE WALLS AND LOCKER FIN WALLS, EXTENDED 4" ABOVE THE CEILING.

4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ITEMS NOT SHOWN ON CEILING PLAN. GRILLES, SPEAKERS, SPRINKLERS, HEAT & SMOKE DETECTORS, SHALL BE CENTERED IN TILES UNLESS NOTED OTHERWISE.

5. ALL BULKHEAD DIMENSIONS ARE FROM FINISH FACE OF WALL OR BULKHEAD TO FINISH FACE OF BULKHEAD.

6. PROVIDE 1/2" REVEALS BETWEEN DISSIMILAR MATERIALS ON THE SAME PLANE AT THE CEILINGS.

7. IN AREAS OF EXPOSED CEILINGS, PAINT EXPOSED STRUCTURE, UNDERSIDE OF DECK, SPRINKLER PIPING, CONDUIT AND ALL MISCELLANEOUS OVERHEAD ITEMS, COLORS TO BE SELECTED BY ARCHITECT.

(Applies to Sheets A-7.1 to A-7.8)
3. Clear finished with birch plywood.

Gym shelving notes:

- To exceed 3’-0”.
- Wire shelves 1’-6”.
- Strips 3’-0”.

Profile @ all exposed ends.

TYP.

Width of the lockers,

Note: Concrete curb shall be 6” tall numbers.

Revels, TYP.

病房 edge, TYP.

Metal flake solid surfacing.

Laminate at locations not adjacent.

Provided 4” metal stud headers and unless otherwise noted.

Fluorescent light fixtures - see plan for length.

Contractor to field verify all clear openings noted on structural drawings. At indicated on structural drawings.

General millwork notes:

- Millwork drawings are diagramatic in nature.
- Millwork details are subject to the approval of the Architect.
- Contractor to verify all construction as noted.
- Plans are to be signed by an architect and sealed.
- Plans have been reviewed and approved by the Architect.
MAPLE VENEER WITH EDGE BANDING

1-1/2" MAPLE

TYPE G2 GLASS

~8"X~8" MAPLE GLASS STOP

SEE PLAN FOR PARTICULAR WALL TYPE

DISPLAY CASE - DETAIL D1
DISPLAY CASE - DETAIL A1

3" = 1'-0" 3" = 1'-0"

LIGHT FIXTURE - SEE ELECT.

MILLWORK & MISC DETAILS

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

A-9.10

TEACHER DESK - PLAN A14

G2 G2

CASEWORK BELOW ALONG WINDOW WALL - SEE FURNITURE PLANS FOR TYPE AND LOCATION

PERFORATED CLOSURE PANEL

TO MATCH AS NEEDED

MILLWORK TOP DRAWER PROVIDE CONTINUOUS COUNTERTOP FROM BOOKSHELVES ALONG WINDOW WALL TO TEACHER DESK

30" HIGH X 16" WIDE, FILE 2 DRAWER CABINET. TMI #D2800

30" HIGH X 20" WIDE CABINET. LSI# 1022

30" HIGH X 36" WIDE CABINET. 14" DEEP. LSI# 1000 WITH DOOR.

KNEE SPACE

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE NUMBER , EXPIRATION DATE .

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000

© GRIMM AND PARKER ARCHITECTURE, INC.

www.grimmandparker.com

11/09/2020

BID SET

GP #21740

3" = 1'-0"

L4 MAPLE CHAIR RAIL DETAIL

3/4" = 1'-0"

K10 DETAIL - CUBBIES

DATE DESCRIPTION

1 1/2" = 1'-0"

K18 SPECIAL SHAPE #1

1 1/2" = 1'-0"

K16 SPECIAL SHAPE #2

1 1/2" = 1'-0"

K14 SPECIAL SHAPE #3

1 1/2" = 1'-0"

K12 SPECIAL SHAPE #4

1 1/2" = 1'-0"

G18 SPECIAL SHAPE #5

1 1/2" = 1'-0"

K14 SPECIAL SHAPE #3

1 1/2" = 1'-0"

H12 SPECIAL SHAPE #6
DECIDUOUS TREE PLANTING DETAIL

EVERGREEN TREE PLANTING DETAIL

SWM CONCEPT / DEVELOPMENT

Norton Land Design
5146 Dorsey Hall Drive, 2nd Floor
Ellwood City, MD 21042
WWW.NORTONLANDDESIGN.COM

Prepared by:

AP 18414 SP07-20

www.nortonlanddesign.com

10/22/18

© GRIMM AND PARKER, P.C. 2018
www.grimmandparker.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel 301.595.1000

150 South East Street, Suite 201
Frederick, Maryland 21701
Phone: 301-662-4408

CIVIL, STRUCTURAL, SPECIALTY ENGINEERING

10/22/18

© GRIMM AND PARKER, P.C. 2018
www.grimmandparker.com

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel 301.595.1000

150 South East Street, Suite 201
Frederick, Maryland 21701
Phone: 301-662-4408

CIVIL, STRUCTURAL, SPECIALTY ENGINEERING

AP 18414 SP07-20

Due Date: