RELOCATED CONC. BLK. WALL

LINE OF BENCHES 4 3/4" 14 1/4"

LINE OF EAST COVERS 49 1/4" 49 1/4"

CAT. (20) 5 1/2"

ANIMAL QUARTERS & FIELD EQUIP. STOR.

GREENHOUSE

CONTRACT DRAWING

LORD & BURNHAM SHOP DRAWINGS

PART PLAN
SCALE 1/8" = 1'-0"

OUTLINE OF WORK:
REVISIION TO SUIT INCREASED
 quantites of steel, precast
 CONSTRUCTION (AS SPECIFIED)
in addition, refer to LORD & BURNHAM
shop drawings, as corrected.
In relocating the two concrete
block walls, provide the same
grading conditions (distance from
WALLS TO TOP OF SLOPES), AS SHOWN ON
the contract plans. Adjust slopes
as shown.

ARCHITECTURAL SUPPLEMENTARY
DRAWING NO. 51
CONTRACT NO. 1917
DATED 6-12-67
ABBREVIATION

LEGEND

CONCRETE
B.I.C.

GENERAL NOTES

1. Exterior dimensions are taken from face of wall, face of column or center line of columns.
2. Interior dimensions are taken to center line of partition, face of concrete, or face of block.
3. Exterior walls, partitions, and block are for general reference only and may be varied.
4. Exterior walls are to be finished with a concrete, block, or other finish as specified.
5. Interior walls are to be finished with a concrete, block, or other finish as specified.
6. Exterior doors and windows are to be as specified.
7. Interior doors and windows are to be as specified.
8. Exterior stairs and ramps are to be as specified.
9. Interior stairs and ramps are to be as specified.
10. Exterior railings and guardrails are to be as specified.
11. Interior railings and guardrails are to be as specified.
12. Exterior faucets and fixtures are to be as specified.
13. Interior faucets and fixtures are to be as specified.
14. Exterior light fixtures are to be as specified.
15. Interior light fixtures are to be as specified.
16. Exterior signs are to be as specified.
17. Interior signs are to be as specified.
18. Exterior doors and windows are to be as specified.
19. Interior doors and windows are to be as specified.
20. Exterior stairs and ramps are to be as specified.
21. Interior stairs and ramps are to be as specified.
22. Exterior railings and guardrails are to be as specified.
23. Interior railings and guardrails are to be as specified.
24. Exterior faucets and fixtures are to be as specified.
25. Interior faucets and fixtures are to be as specified.
26. Exterior light fixtures are to be as specified.
27. Interior light fixtures are to be as specified.
28. Exterior signs are to be as specified.
29. Interior signs are to be as specified.
30. Exterior doors and windows are to be as specified.
31. Interior doors and windows are to be as specified.
32. Exterior stairs and ramps are to be as specified.
33. Interior stairs and ramps are to be as specified.
34. Exterior railings and guardrails are to be as specified.
35. Interior railings and guardrails are to be as specified.
36. Exterior faucets and fixtures are to be as specified.
37. Interior faucets and fixtures are to be as specified.
38. Exterior light fixtures are to be as specified.
39. Interior light fixtures are to be as specified.
40. Exterior signs are to be as specified.
41. Interior signs are to be as specified.
42. Exterior doors and windows are to be as specified.
43. Interior doors and windows are to be as specified.
44. Exterior stairs and ramps are to be as specified.
45. Interior stairs and ramps are to be as specified.
46. Exterior railings and guardrails are to be as specified.
47. Interior railings and guardrails are to be as specified.
48. Exterior faucets and fixtures are to be as specified.
49. Interior faucets and fixtures are to be as specified.
50. Exterior light fixtures are to be as specified.
51. Interior light fixtures are to be as specified.
52. Exterior signs are to be as specified.
53. Interior signs are to be as specified.
54. Exterior doors and windows are to be as specified.
55. Interior doors and windows are to be as specified.
56. Exterior stairs and ramps are to be as specified.
57. Interior stairs and ramps are to be as specified.
58. Exterior railings and guardrails are to be as specified.
59. Interior railings and guardrails are to be as specified.
60. Exterior faucets and fixtures are to be as specified.
61. Interior faucets and fixtures are to be as specified.
62. Exterior light fixtures are to be as specified.
63. Interior light fixtures are to be as specified.
64. Exterior signs are to be as specified.
65. Interior signs are to be as specified.
66. Exterior doors and windows are to be as specified.
67. Interior doors and windows are to be as specified.
68. Exterior stairs and ramps are to be as specified.
69. Interior stairs and ramps are to be as specified.
70. Exterior railings and guardrails are to be as specified.
71. Interior railings and guardrails are to be as specified.
72. Exterior faucets and fixtures are to be as specified.
73. Interior faucets and fixtures are to be as specified.
74. Exterior light fixtures are to be as specified.
75. Interior light fixtures are to be as specified.
76. Exterior signs are to be as specified.
77. Interior signs are to be as specified.
78. Exterior doors and windows are to be as specified.
79. Interior doors and windows are to be as specified.
80. Exterior stairs and ramps are to be as specified.
81. Interior stairs and ramps are to be as specified.
82. Exterior railings and guardrails are to be as specified.
83. Interior railings and guardrails are to be as specified.
84. Exterior faucets and fixtures are to be as specified.
85. Interior faucets and fixtures are to be as specified.
86. Exterior light fixtures are to be as specified.
87. Interior light fixtures are to be as specified.
88. Exterior signs are to be as specified.
89. Interior signs are to be as specified.
90. Exterior doors and windows are to be as specified.
91. Interior doors and windows are to be as specified.
92. Exterior stairs and ramps are to be as specified.
93. Interior stairs and ramps are to be as specified.
94. Exterior railings and guardrails are to be as specified.
95. Interior railings and guardrails are to be as specified.
96. Exterior faucets and fixtures are to be as specified.
97. Interior faucets and fixtures are to be as specified.
98. Exterior light fixtures are to be as specified.
99. Interior light fixtures are to be as specified.
100. Exterior signs are to be as specified.
101. Interior signs are to be as specified.
102. Exterior doors and windows are to be as specified.
103. Interior doors and windows are to be as specified.
104. Exterior stairs and ramps are to be as specified.
105. Interior stairs and ramps are to be as specified.
106. Exterior railings and guardrails are to be as specified.
107. Interior railings and guardrails are to be as specified.
108. Exterior faucets and fixtures are to be as specified.
109. Interior faucets and fixtures are to be as specified.
110. Exterior light fixtures are to be as specified.
111. Interior light fixtures are to be as specified.
112. Exterior signs are to be as specified.
113. Interior signs are to be as specified.
114. Exterior doors and windows are to be as specified.
115. Interior doors and windows are to be as specified.
116. Exterior stairs and ramps are to be as specified.
117. Interior stairs and ramps are to be as specified.
118. Exterior railings and guardrails are to be as specified.
119. Interior railings and guardrails are to be as specified.
120. Exterior faucets and fixtures are to be as specified.
121. Interior faucets and fixtures are to be as specified.
122. Exterior light fixtures are to be as specified.
123. Interior light fixtures are to be as specified.
124. Exterior signs are to be as specified.
125. Interior signs are to be as specified.
126. Exterior doors and windows are to be as specified.
127. Interior doors and windows are to be as specified.
128. Exterior stairs and ramps are to be as specified.
129. Interior stairs and ramps are to be as specified.
130. Exterior railings and guardrails are to be as specified.
131. Interior railings and guardrails are to be as specified.
132. Exterior faucets and fixtures are to be as specified.
133. Interior faucets and fixtures are to be as specified.
134. Exterior light fixtures are to be as specified.
135. Interior light fixtures are to be as specified.
136. Exterior signs are to be as specified.
137. Interior signs are to be as specified.
138. Exterior doors and windows are to be as specified.
139. Interior doors and windows are to be as specified.
140. Exterior stairs and ramps are to be as specified.
141. Interior stairs and ramps are to be as specified.
142. Exterior railings and guardrails are to be as specified.
143. Interior railings and guardrails are to be as specified.
144. Exterior faucets and fixtures are to be as specified.
145. Interior faucets and fixtures are to be as specified.
146. Exterior light fixtures are to be as specified.
147. Interior light fixtures are to be as specified.
148. Exterior signs are to be as specified.
149. Interior signs are to be as specified.
150. Exterior doors and windows are to be as specified.
151. Interior doors and windows are to be as specified.
152. Exterior stairs and ramps are to be as specified.
153. Interior stairs and ramps are to be as specified.
154. Exterior railings and guardrails are to be as specified.
155. Interior railings and guardrails are to be as specified.
156. Exterior faucets and fixtures are to be as specified.
157. Interior faucets and fixtures are to be as specified.
158. Exterior light fixtures are to be as specified.
159. Interior light fixtures are to be as specified.
160. Exterior signs are to be as specified.
161. Interior signs are to be as specified.
162. Exterior doors and windows are to be as specified.
**PRESTRESSED BEAM NOTES**

1. Concrete for prestressed beams shall develop a minimum compressive strength of 5000 psi at 28 days.
2. Final prestress force is the force that shall remain after all losses due to creep and shrinkage.
3. Contractor shall take all precautions necessary to prevent excessive tension of prestressed beams.
### JOIST SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>MAIN REINFORCEMENT</th>
<th>REMARKS AND SPECIAL SECTIONS</th>
<th>MARK</th>
<th>MAIN REINFORCEMENT</th>
<th>REMARKS AND SPECIAL SECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>J201</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J301</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 24</td>
<td></td>
<td></td>
<td>78' x 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J202</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J302</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 24</td>
<td></td>
<td></td>
<td>78' x 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J203</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J303</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 24</td>
<td></td>
<td></td>
<td>78' x 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J204</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J304</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 24</td>
<td></td>
<td></td>
<td>78' x 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J205</td>
<td>Not Used</td>
<td></td>
<td>J305</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 24</td>
<td></td>
<td></td>
<td>78' x 24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J206</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J306</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 27</td>
<td></td>
<td></td>
<td>78' x 27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J207</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J307</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 27</td>
<td></td>
<td></td>
<td>78' x 27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J208</td>
<td>1/2&quot; 6-12</td>
<td></td>
<td>J308</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>78' x 27</td>
<td></td>
<td></td>
<td>78' x 27</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SLAB SCHEDULE

<table>
<thead>
<tr>
<th>SLAB</th>
<th>REINFORCING</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1/2&quot; 6-12</td>
<td></td>
</tr>
</tbody>
</table>

### TYPICAL JOIST DETAIL

1. All joists shall be spaced 24" on centers.
2. Joists shall be supported at ends and at supports.
3. Joists shall be connected to girders with 1/2" 6-12 stirrups at supports.
4. Joists shall be connected to girders with 1/2" 6-12 stirrups at supports.

### TYPICAL SLAB DETAILS

- [Diagram of typical slab reinforcement and connections]
- [Legend for reinforcement symbols]
- [Instructions for installation and connections]

---

NOTES:
- Stagger joists where possible.
- Ensure proper support at all joist ends.
- Check for local codes and regulations.
- Consult with structural engineer for final design.

---

[Ref: Structural Engineering Manual, 2023]
[Project: Biological Science Building]
[Date: May 2023]
CONNECT TO TOP

EXIST 2" P.R. FROM BIO-SCIENCE BLDG

EXIST 3" P.R.

REMOVE EXIST. HPDT DISCHARGE CONNECTION AND PLUG OPENING

1" G.V.

DISCONNECT 1/2" HPDT DISCHARGE FROM 3" P.R. AND RECONNECT TO EJECTOR.

PENBERTY G3A FLUID OPERATED EJECTOR, OR EQ.

NOT TO SCALE

CHANGE ORDER

CONTRACT No.

S-0866

NO ADDITIONAL CHANGES

PROJECT
BIOLOGICAL SCIENCE BUILDING

CLIENT
TRUSTEES OF THE CALIFORNIA STATE COLLEGES

LOCATION
CALIFORNIA STATE POLYTECHNIC COLLEGE, SAN LUIS OBISPO