SMRT

ARCHITECTURE
ENGINEERING
PLANNING

Date: November 10, 2003
Architect's Project No.: 03034

ADDENDUM NO. 4
TO
CONTRACT DRAWINGS AND SPECIFICATIONS
FOR
GULF OF MAINE RESEARCH LABORATORY
Portland, Maine

This addendum forms a part of the bidding and contract documents.

Bidders are required to acknowledge receipt of this addendum on their proposal. Failure to acknowledge all addenda may cause the bid to be considered not responsive to the invitation, which may require rejection of the bid.

PART I – QUESTIONS/ANSWERS/INFORMATION RELATING THE PROJECT:

These items provide supplemental information to the Contract without modification.

Part I-A – Attachments

None

Part I-B – Bidder Questions/Clarifications:

1. There is a plan to show what gets fireproofed however, there are a couple of details such as N11 & J11 on AE521: J1, J4, N11: AE522 which also indicate spray fireproofing on columns as typical. Could you please clarify. *RESPONSE: SF402 correctly shows those areas requiring fire protected columns and beams. Note that where fit of fire-protective spray is tight, rated gypsum board enclosures have been detailed. Note that with increased rating of stair enclosures, sprayed on fireproofing for steel supporting stairway walls must be two-hour. We now propose to use sprayed fireproofing only, and to furr out the walls for fit.*

PART II - MODIFICATIONS TO DRAWINGS AND MATERIAL SPECIFICATIONS:

Part II-A – Attachments.

The following items are attached to and are part of this Addendum. These items replace original items previously issued or are to be added to the Bidding and Construction Documents as indicated.

1. Sketches ADD4-C1, ADD4-SW1, ADD4-E1, ADD4-E2.

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Part II-B – Revisions by Reference:
The drawings and specifications are hereby revised as follows:

REVISIONS TO DRAWINGS:

1. Drawing Sheet GI003. Add interior partition type: "X3 2-Hour Rated Partition - UL Design U412/U420. Two layers 5/8" type X gypsum board, 2.5" metal studs, sound batt insulation, two layers of 5/8" type X gypsum board. Provide UL Design U420 for chase wall as required to provide complete enclosure. Provide full height fire separation with UL deflection head track."
2. Drawing Sheet CP101. Revise plotted drawing sheet to reflect information provided in Add. 2:
   A. ~~Change dimension of dumpster pad from 8' x 9' to 9' x 9'.~~ (Superseded)
   B. Add 5' – 0" high chain link fence continuous on the upland side of the existing guardrail from the existing Portland Fish Pier fence to the existing Coast Guard fence. Add correlating note: "11. Fence shall connect to existing fences in a secure fashion. Provide a 5' – 0" opening swing gate at the ramp and float location including latch with lock capability."
   C. Locate the "6' sidewalk to property line" at L/9 to align with the existing gate in the Portland Fish Pier fence.
3. Drawing LP101: Revise plotted drawing sheet to reflect information provided in Add. 2: Add note in Planting Schedule regarding Ginkgo Bilobas as follows: "Ginkgo biloba (8) shall be "upright" in form and shall be asexually propagated from male specimens. Certification from a qualified nursery, documenting such propagation, including examples of prior success with this procedure, shall be required. Bare Root specimens may be acceptable if transported to the area a year in advance of installation, planted in proper soil mix off-site, maintained, root pruned and balled & burlapped per specifications and American Standards for Nursery Stock prior to being moved to the site and installed. If Bare Root specimens are intended to be procured, the approval of the Architect shall be required."
4. Drawing Sheet A-002.
   A. Revise stair enclosure fire wall indication for stairs B and C on all floor levels to indicate two hour fire separation enclosures for stairs.
   B. General Notes. Add: "2. Provide two layers of 5/8" gypsum board on interior side of Stair C exterior walls for future fire rating."
5. Drawing Sheet AE101, AE105, MH101, etc. Reverse the swing of door 104B to be right hand reverse.
6. Drawing Sheets AE101 and AE105, Corridor 105. Add second wall recess and second set of lunch box shelving and hooks to corridor west wall. Add second elevation reference "K12/AE221".
7. Drawing Sheet AE103, General Notes. Add: "11. Provide 8-12" deep adjustable shelves on brackets in rooms 306A, 339, 341, and 343. Provide one 12" deep fixed shelf and a full width cloak hanging pole in rooms 348, and 349."
8. Drawing Sheets AE311, AE312, AE313, AE314, AE315. Revise location of foundation

insulation to be at foundation exterior wall side, deleting foundation insulation at interior of perimeter foundations. Stop top of insulation immediately below pavements, or 2" below finished earth grade as applicable and extend full thickness to bottom of foundation.

9. Drawing Sheet AE401. Revise stair enclosure partition types to be type X3. Revise stair enclosure fire rating to be two hour.
10. Drawing Sheet AE520, Details N7, N14, J14, E11. Revise to show sprayed on fireproofing on columns. Furr walls as necessary to conceal fire proofing.
11. Drawing Sheet AE522, Details N7, N14, J7, J11. Revise to show sprayed on fireproofing on columns. Furr walls as necessary to conceal fire proofing.
12. Drawing Sheet AE611, Doors 112B, 152A, 212, 246, 314, 353, 403, and 405. Revise door rating to be 90 minutes.
13. Drawing Sheet SB102, Note 2. Revise 12.74' to read 12.8'
14. Drawing Sheet SB501, Detail A5. Revise depth of sump in elevator pit to be 2'-0".
15. Drawing Sheet SF402, General Note 2. Revise note to read: "steel beams *and columns*".
16. Drawing Sheets MH102 and MH103. Where 4" PVC underslab vent rises up thru the third floor – Room 331 – move the vent to the east to fall within the wall between Recept 331 and CIO Office 330.
17. Drawing Sheet MP101 – Multi-Media Seawater Room 105 – Move thermostat from north wall to the south wall just west of the door frame.
18. Drawing Sheets PL101, Note 2. Revise 12.74' to read 12.8'
19. Drawing Sheet PL105 – Move FPHB outside Wet Workshop Room 157 north to align with wall between Wet Workshop 157 and Gear Room 154. Move compressed air outlet to room east wall.
20. Drawing Sheet PL105 – Revise reference for Enlarged Plan at grid coordinates A-10 to be J9/PL501.
21. Drawing Sheet SW103:
    A. Add note: "6. The three pipes which run under the floor slab from Room 115 to Room 122 shall be supported by pipe hangers attached to the under-side of the slab."
22. Drawing Sheet SW104:
    A. Change elevation of FSW and TSW piping from "APPROX. INV. EL. 108'-0"" to read: "APPROX. INV. EL. 108'-6"".
23. Drawing Sheet SW108. Delete detail "H – Seawater Riser Detail" and replace with detail "H – Seawater Riser Detail" as shown on attached sketch ADD4-SW1.
24. Drawing Sheet EP101. Multi-Media Seawater Room 115 area.
    A. Shift receptacle locations to accommodate revised door location.
    B. Revise power outlets and conduits as shown in attached sketch E1.
25 Drawing Sheet EL101. Multi-Media Seawater Room 115. Revise light switch location to be adjacent to revised door location.
26. Drawing Sheet EL103. Boardroom 305. Locate light switches SDg and SDf to vestibule south wall near other light switches.
27. Drawing Sheet EY101. Revise data outlets as shown in attached sketch E2.

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28. Drawing Sheet EY102. Mens Room 207. Delete fire alarm strobe over mirror.
29. Drawing Sheet EY103. Womens Room 210 and Mens Room 211. Relocate fire alarm strobe device to west wall east of door.
30. Drawing Sheet EP601. Revise panel LP1D to reflect load changes at the 3 lab venture stations in the Multi-Media Classroom 104.

REVISIONS TO SPECIFICATIONS

1. Section 02100 – Site Preparation
   A. Page 4, Part 3.5, Add: "The building pad preparation shall be completed in accordance with any recommendations set forth in the R.W. Gillispie Geotechnical Investigation reports completed for the project. This shall include, but is not limited to, stripping of overburden materials, subgrade preparation and proof-rolling when required, and minimization of disturbances to subgrade soils during the progress of work."
2. Section 02511 – Asphaltic concrete paving
   A. Delete Parts 1, 2, and 3 of this specification section in their entirety and replace with note: "Provide paving per Appendix A – Section 401-Hot Mix Asphalt Pavement."
3. Section 02525 – Curbs and Sidewalks
   A. Page 7, Part 3.8.D shall be deleted in its entirety.
   B. Page 7, Part 3.9.B Revise: "Install 6" minimum thickness of lean concrete behind curbing sections at curb joints to minimize curb tipping." to read: "The Granite curb shall be installed per the City of Portland Technical Standards, that require the use of a filter strip behind each joint and the filling of joints with CONPRO Set mix."
4. Section 07410, Page 4.
   A. Part 2.3A. Delete subparagraph 1.
5. Section 07620, Page 3, Part 2.4B1. Revise 26 oz. to read 16 oz.
6. Section 07811, Page 9, Part 3.7. Revise "1-hr." to read: "2-hr.", typ. two locations.
7. Section 09900, Page 12. Add 3.7:
   "E. Exposed Structures/Mechanical: Provide the following finish system over exposed construction for ceilings:
   1. Eggshell Gloss, Self-Priming Modified Alkyd Finish: Two coats.
      a. Tnemic Series 15 or equal by listed manufacturer.
      b. Dry Film Thickness: 5 mil"
8. Specification Section 15142 – Seawater System Piping & Equipment
   A. Page 4, Part 2.1.D.1. Delete paragraph "a." and replace with:
   "a. At a minimum each pipe run shall have a flange where the pipe enters a room and exits a room. In addition, the pipe shall have a flange, union or true union valve at least every 10 feet and at every direction change. Socket weld fittings may be used in between flanged fittings, unions or true union valves. Screwed fittings shall only be used where shown on the drawings."
   B. Page 6, Part 2.5, Add:

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"D. All pipe hangers, support rods, fasteners, etc. for above ground and below ground seawater piping shall be manufactured from 316L stainless steel (or 316 stainless steel if 316L is not available) or fiberglass reinforced plastic (FRP) or a combination of these materials. The above references to other specification sections are to provide guidance in the hanger style, strength, spacing, non-metallic items such as pads, installation procedures for pipe hangers, etc. All pipe hangers shall be installed in accordance with manufacturer's instructions."

C. Page 16, Part 2.10, Delete paragraph "A." and replace with:
"A. All fasteners such as nuts, bolts, studs, washers, etc. shall be 316L stainless steel. If 316L stainless steel is not available then 316 stainless steel may be used."

D. Page 16, Part 2, Add 2.11:
"2.11 MECHANICAL IDENTIFICATION
A. Equipment and pipes shall be identified as specified in Section 15075, Mechanical Identification. Text and color for labels shall be as directed by Architect."

E. Page 17, Part 3, Section 3.3.B, Delete paragraph "2." Replace with:
"2. At a minimum each pipe run shall have a flange where the pipe enters a room and exits a room. In addition, the pipe shall have a flange, union or true union valve at least every 10 feet and at every direction change. Socket weld fittings may be used in between flanged fittings, unions or true union valves. Screwed fittings shall only be used where shown on the drawings."

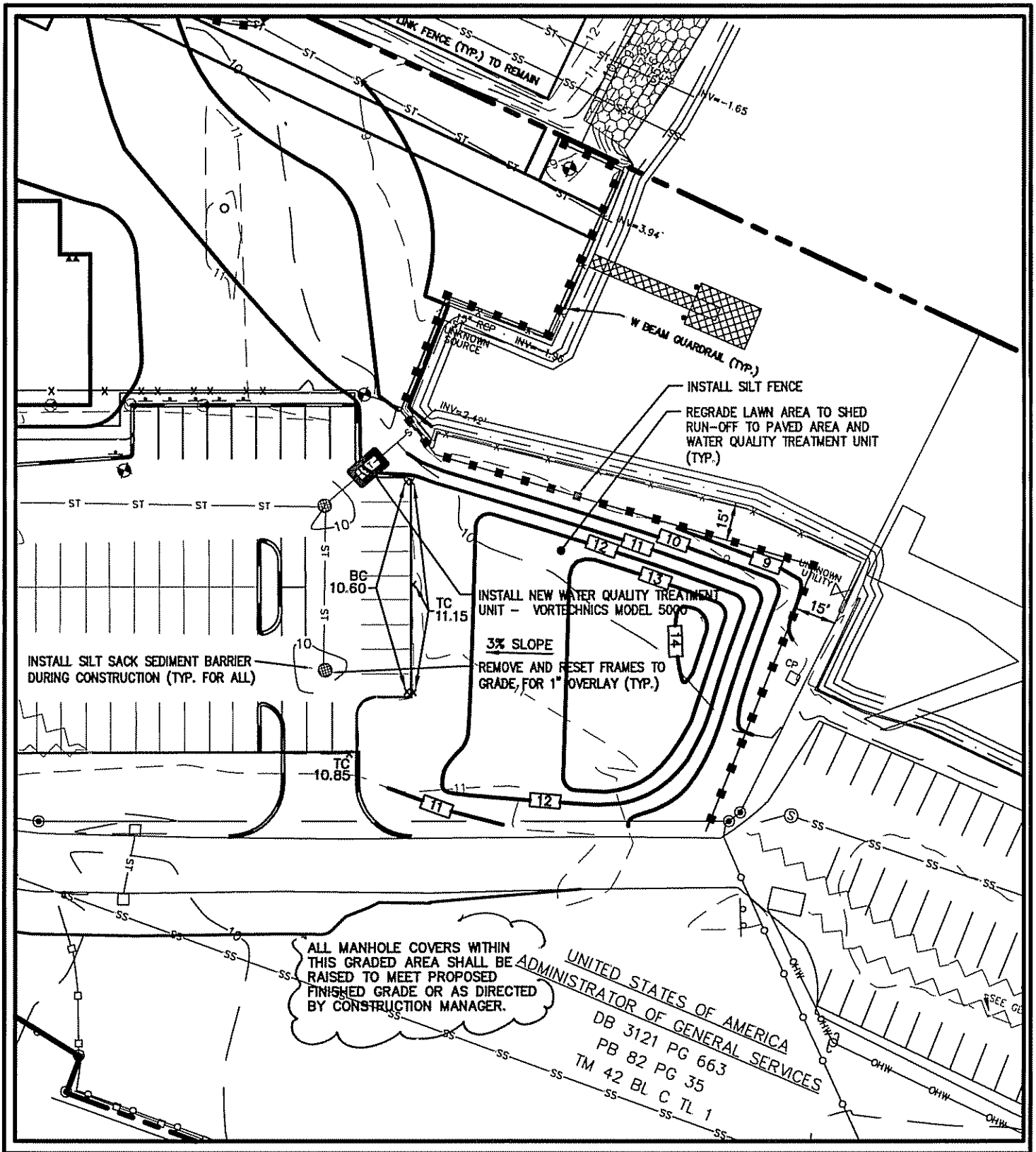
END OF ADDENDUM NO. 4

Issued by SMRT, Inc.

David Lay
Project Manager

cc: Ouellet Associates, Inc. for distribution to document holders, Don Perkins, Mark Jordan, Steve Bushey, Steve Dangermond, DVJ, DRL, ADB, JPP, DBR, Stick Set, File 31

This addendum consists of 9 - 8.5" x 11" sheets.



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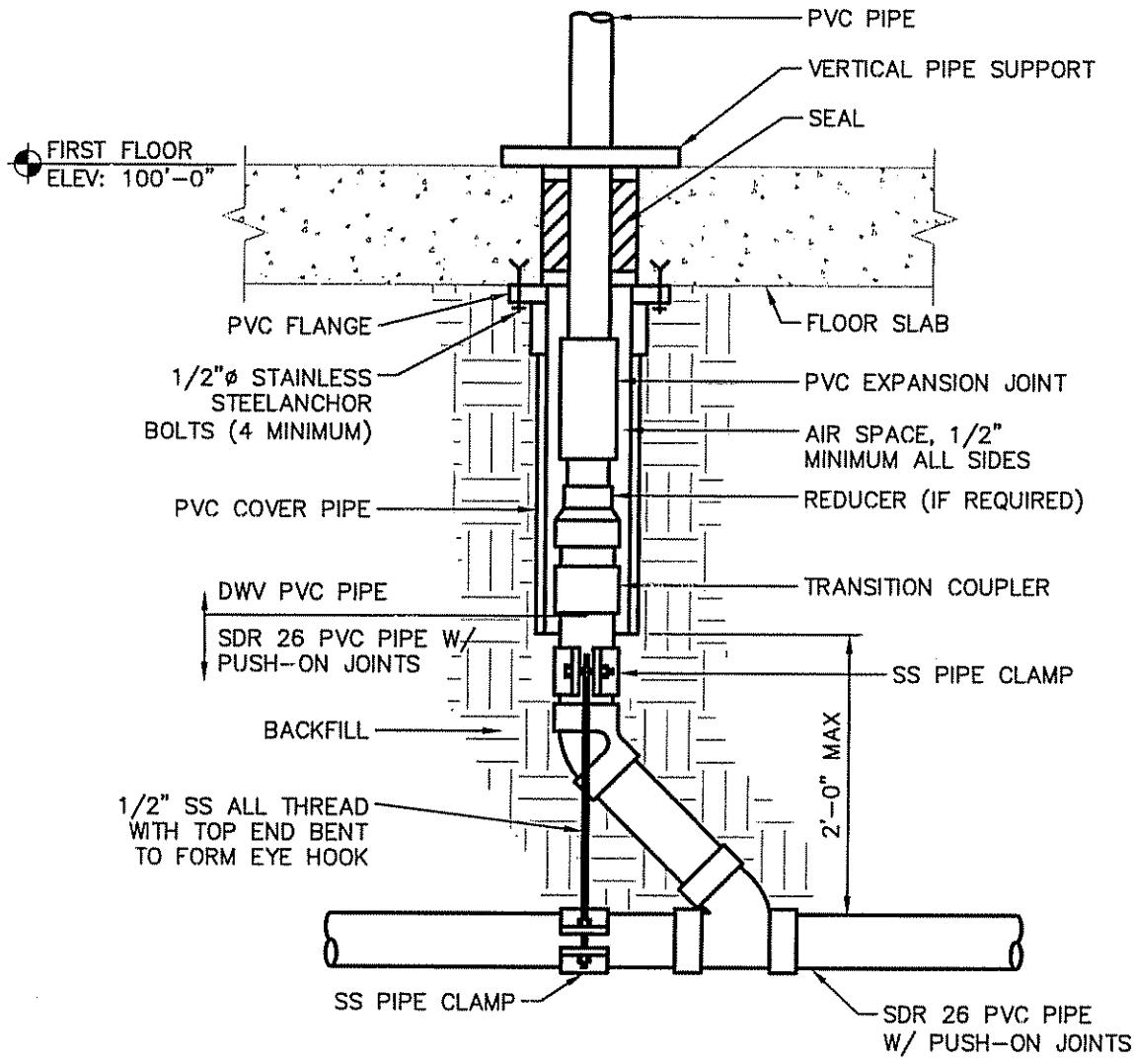
SCALE:	1"=40'
CAD FILE:	CAD#
PROJECT No.	03034
REF. SHEET:	CG101-03034
PM: DRL	BID/PERMIT/CONSTRUCTION ADD-4
A/E: A/E	SKETCH No. C-1
DATE: 11/6/03	

PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE

SUBJECT: REGRADING REVISIONS TO CG101



H
SW114

SEAWATER RISER DETAIL

SCALE: NTS

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REF: SW108

PROJECT No. 03034

PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE

PM: DRL

11.7.03

ADD-4

SW1

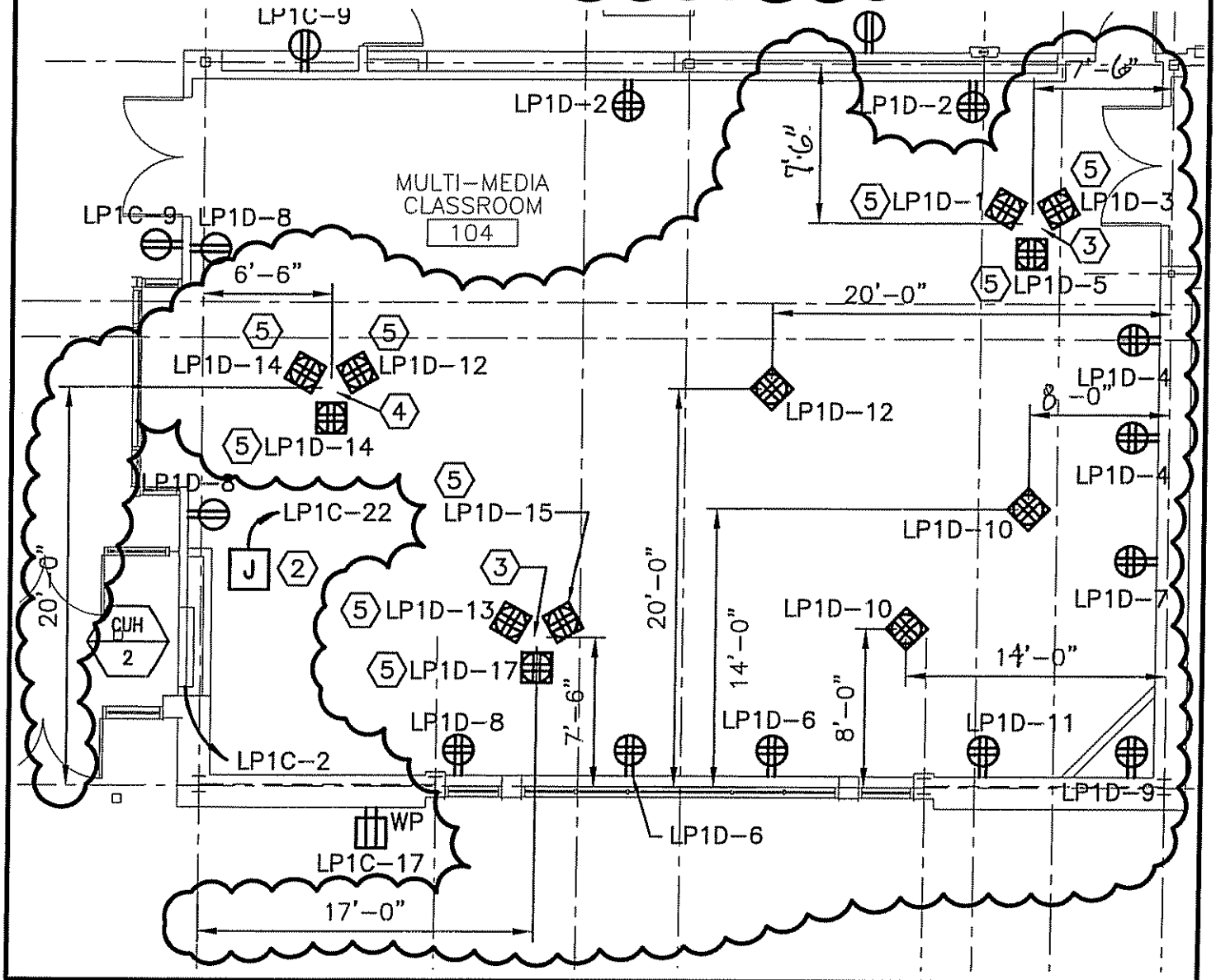
REVISED DETAIL H/SW108

KEYED NOTES:

(3) PROVIDE (1) – 1" CONDUIT BETWEEN ELECTRICAL RM. 103 AND LAB VENTURE STATION.

(4) PROVIDE (1) – 1" CONDUIT BETWEEN RM. 115 AND SCHOOLING TANKS.

(5) PROVIDE (2) DUPLEX RECEPTACLES AND NO VOICE/DATA OUTLETS.



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SCALE:	1/8"=1'-0"
CAD FILE:	EP101-03034
PROJECT No.	03034
REF. SHEET:	EP101
PM: DRL	ADDENDUM No. ADD-4
A/E: JPP	SKETCH No. E-1
DATE: 11-10-03	

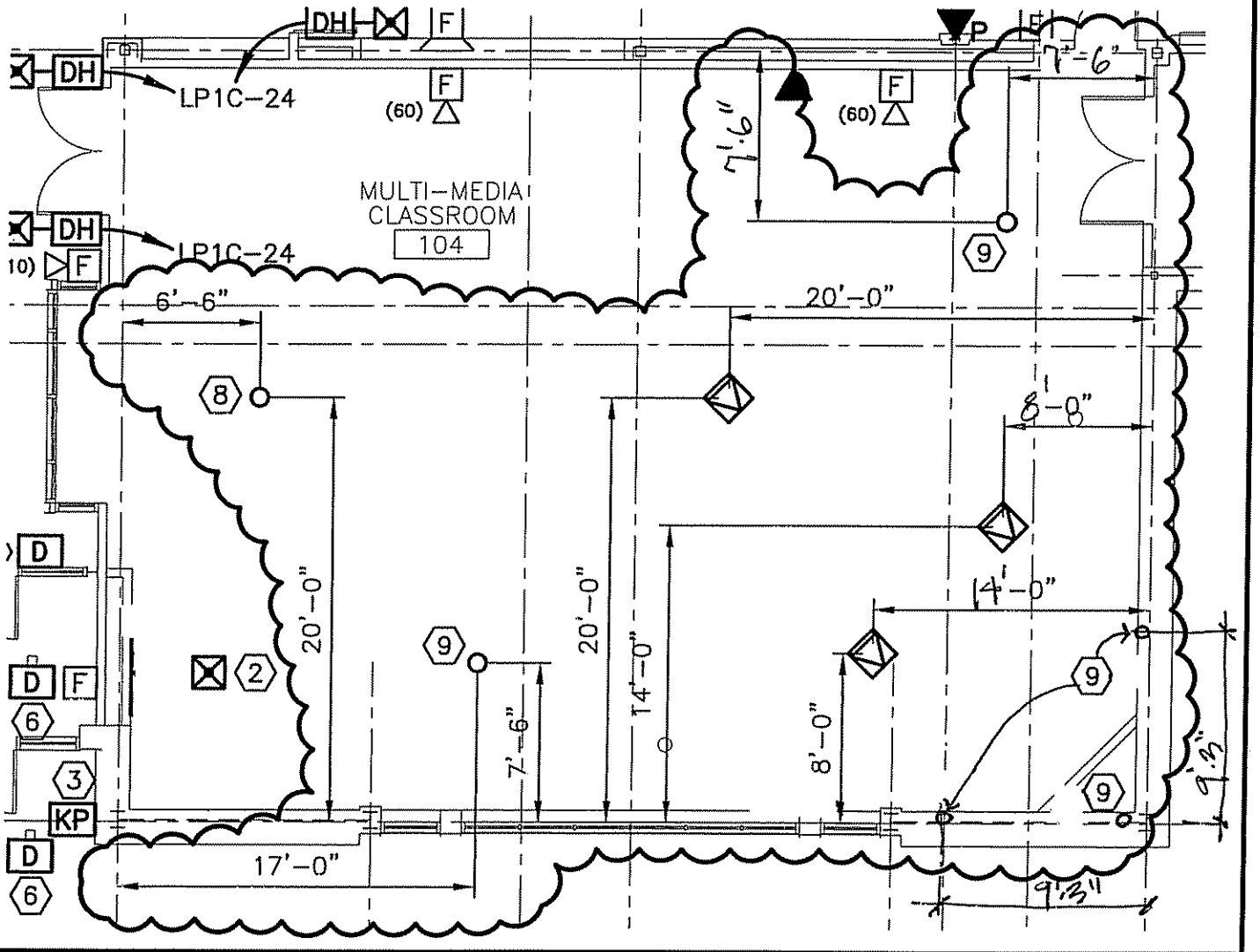
PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE

SUBJECT: FIRST FLOOR POWER PLAN

KEYED NOTES:

(8) PROVIDE (2)–2" CONDUITS BETWEEN SCHOOLING TANK AND EQUIPMENT RM. 202

(9) PROVIDE (1)–1" CONDUIT BETWEEN LAB VENTURE STATION AND EQUIPMENT RM. 202



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SCALE:	1/8"=1'–0"
CAD FILE:	EY101–03034
PROJECT No.	03034
REF. SHEET:	EY101
PM: DRL	ADDENDUM No. ADD–4
A/E: JPP	SKETCH No. E–2
DATE: 11–10–03	

PROJECT: THE GULF OF MAINE RESEARCH INSTITUTE

SUBJECT: FIRST FLOOR SYSTEMS PLAN