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Information from Construction Documents Part 1

Google Doc Link to Part 1:
https://docs.google.com/document/d/1JPqNC6u5iOl3a9wKAF1ro2Nk4XybvobptF5MyeU81Ng/edit?usp=sharing

For all answers either list the Drawing sheet number and detail number or Specification page number

1. List the architectural firm and three (3) engineering firms and their major (one) responsibility. Architectural Firm - Bowe Lewis Thrower Architects, Structural Engineers - Keast & Hoco Co., MPE Engineers - BR+A Consulting Engineers, Civil Engineers - Gannett Fleming, **A101**
2. Do the exterior walls carry the building loads? **No**, steel columns are used to carry the loads. **S101E, S101W**
3. Does the building have a curtain wall? **Yes**, **A101**
4. Is the building supported by columns? If so, what material? Steel **S101E, S101W, S501**
5. Do any interior walls carry the building loads? **No**, the steel columns carry the loads. **S101E, S101W**
6. What is the General Building Structural Type (Concrete, Steel, Wood or what combination.) Steel **S101E, S101W**
7. What is the Basement (or lowest) structural Floor **Material** (concrete, wood...)? What is the depth/thickness? The lowest level is mainly carpet flooring with terrazzo in the vending area and corridors, and vinyl composite tile in closet/storage areas, **A710**
8. What is the Basement (or lowest) structural Floor **Support** (steel beam, concrete beam...)? What is the depth/thickness? Concrete grade beam that is 2’ thick **S100W in the NOTES**
9. What is a Upper structural Floor Material (structural - wood..)? What is the depth/thickness? concrete, S404
10. What is a Upper structural Floor Support (steel beam...)? What is the depth/thickness? steel beams range from 18-27” in depth, S104W
11. List two (2) materials for the front door and or frame. The door and frame are both painted (PTD) aluminum. A720 A101
12. What is the floor finish material for the floor inside of the building at the front door/s? Terrazzo flooring in the lobby (room F105) A101 A711
13. What is the wall finish material for the walls inside of the building at the front door/s? GWB, A711
14. What material/s are used for the windows? Aluminum curtain wall, 1 “ insulating glass, kynar finish, A411
15. List three (3) materials for the exterior finish of the building. 4” face brick, A451, aluminum curtain wall, metal panels, A309
16. How is the exterior finish attached to the building? galvanized steel brick ties 16” o.c., A451
17. What is the roof slope or pitch? slope varies on roof from -11” to -9 3/4” to -7”, A116
18. What is the Roof finish material (shingles, etc....) single ply roof membrane, ½” metal deck slope to drain, A413
19. What type and thickness of insulation is in the exterior wall system? 2” rigid insulation, A451
20. What type and thickness of insulation is used in the roof system? min. 3” rigid insulation, A413
21. Find and list the sheet number that has a revision, list the number, date and know it’s location on the sheet. A101 was reissued on 9/15/03, we could tell because Bulletin #2 was listed under the revisions in the title block, A101
22. What is the smallest floor to floor height? from the 3rd to the 4th floor the floor height is 13’4”, A311
23. What is the largest floor to floor height? 15’4” from lower level to 1st floor and from 1st floor to 2nd floor, A311
24. What is the thickness of the concrete floor for all floor types? Total slab thickness is 6-½” and the N.W.C is 4-½” S101W in the NOTES
25. What is the largest foundation footer/pad thickness/depth? 8” S302
Information from Construction Documents Part 2

Reference Architectural Graphic Standards and Building Construction Illustrated
Use your group’s CDs for this homework, except questions noted as NCS (National Cad Standard) or Sweets Catalog/Network online at http://sweets.construction.com/ (free registration at site) or the large green Sweets Catalogs.
This is a group homework. Try sharing a google document so all members can edit the file at the same time.
see https://support.google.com/drive/answer/2494822?hl=en

For all answers either list the Drawing sheet number and detail number or Specification page number

1. List one item that is listed in the specifications but would not be shown on the drawings. The soil/earth that the building is on
2. List one item that is shown on the drawings but would not be listed in the specifications. Floor Plans, Elevations, etc.
3. List a door number (with UL/fire rating) and find the material for the frame and door. What is the UL/fire rating? 125-2 with wood door and hollow metal frame A-720
4. Find and list 3 partition type symbols and list all of the materials for a bathroom wall from the partition/wall types. D21A, F3A, and M61
   1-hour fire rated GWB and 3” AC. batt  A111-A701
5. Where is the Bench Mark and what elevation is it? This was unable to be found in the drawings. Our set did not include surveying/mapping and was not included on any other drawings.
6. What is the minimum depth from exterior grade to the bottom of the footer for an exterior wall? 8” CMU brickshelf and 4” gravel fill A401
7. What is the design snow depth listed in IBC for the location where is building is built? 4’ 0” for State College
8. What is the width of the structural wall (metal studs, CMU’s, Concrete) used for a stair well? 1'-11" A451 #3

9. What is the smallest interior wall width? 9 ¾" A914

**NOTE:** Specs/info on manufactures was not included in our drawings, so we used another set of drawings for Biobehavioral Health building the on the O:/ drive

10. List a manufacturer for a finish floor material. Walton Uni, Marmoleum Dual

    *Specs Vol. 2*

11. List a manufacturer for gypsum wall board. Georgia-Pacific Gypsum LLC, National Gypsum Company, USG Corporation *Specs Vol. 2*

12. List a manufacturer of steel doors or steel frames. Schuco International Kg

    *Specs Vol. 2*

13. What is the strength of the reinforcing? Grade 60 reinforcement, 60,000 psi minimum *S-001*

14. List strength of the concrete? List all strengths/types/uses. Concrete in pile caps 3000 psi, concrete in piers 3500 psi concrete in all slabs 3500 psi *S-001*

15. What is the strength of the steel? Grade 50, 50,000 psi minimum *S-001*