

SPECIFICATION FOR SURVEY OF SITE OF THE UNITED STATES POST OFFICE AT SAN BERNARDINO, CALIF.

THE SURVEY SHALL BE MADE IN ACCORDANCE WITH THE ABOVE SPECIFICATION FOR TOPOGRAPHICAL SURVEY AND SOIL INVESTIGATION OF SITE FOR FEDERAL BUILDING DATED JANUARY 30, 1925, AND THE ACCOMPANYING VENDOR'S SURVEY.

JAS. A. WETMORE,  
ACTING SUPERVISING ARCHITECT.

SPECIFICATION FOR TOPOGRAPHICAL SURVEY AND SOIL INVESTIGATION OF SITE FOR FEDERAL BUILDING.

TREASURY DEPARTMENT,  
OFFICE OF THE SUPERVISING ARCHITECT,  
WASHINGTON, D.C., JANUARY 30, 1925

1. WORK INCLUDED.—The work included in the following specification consists of making a complete topographical survey and soil investigation for the Federal Building site, named in the accompanying plat.
2. TIME TO COMPLETE.—Each bidder shall state upon the proposal sheet the time within which he will complete the contract. The successful bidder will be required to commence the work promptly when awarded and carry on same continually to its completion within the time stated.
3. SEQUENCE AND VERIFICATION OF WORK.—When the plat of survey has been completed, the test pit dug, shored, and covered, and the report thereon written, the contractor shall notify the office of the Supervising Architect by wire and an office representative will be detailed to visit the site, and, in conjunction with the contractor, to compare the survey and report with the actual conditions at the site, and any errors or omissions noted by the office representative must be corrected or supplied by the contractor, and will then forward the survey, report, and soil samples to the Supervising Architect.
4. ASSISTANCE TO OFFICE REPRESENTATIVE.—The contractor shall render such assistance to the office representative as is necessary to allow a satisfactory examination of the site, pit and boring.
5. PLAT AND COLORS.—The plat of the site must be made on tracing paper, 24 1/2 by 37 inches, cutting size, with border line 1/4 inch inside of each edge; use ink colors but black. Place name of the city and State in the lower right-hand corner in letters 1/4 inch high. All figures must be black and of such size as to insure legibility on blue prints. The survey shall be dated and signed by the contractor.

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING PARTICULARS:

6. VERIFY VENDOR'S SURVEY.—All data indicated on vendor's survey shall be verified.  
Show the courses and distance of the boundaries (measured horizontally with a steel tape and counting only clear building space, exclusive of all sidewalks, alleys, or any other encroachments), note the angles (measured with a transit) and the corner monuments and their referentials to boundaries, and to outside landmarks, and indicate them on the new plat of the survey, with description thereof. If any discrepancies between the accompanying plat of the vendor's survey and this surveyor's plat are found, the Supervising Architect shall be immediately informed relative to the nature of such discrepancies and the apparent cause for the same. This, however, must not delay the completion of the work called for by this specification.

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SPECIFICATION FOR TOPOGRAPHICAL SURVEY AND SOIL INVESTIGATION OF SITE FOR FEDERAL BUILDING.

7. MONUMENTS.—Each corner or change of direction in the boundaries of the site not already marked by a monument as hereinafter described must be indicated by a monument of stone or concrete 6 by 6 inches by 3 feet in size, permanently set, so as not to be disturbed by frost or accident, with the top of the monument flush with the surface. Such monuments must be set at the exact corners, with the outside faces of the monument as set coinciding precisely with the lot lines. Such monuments must be as near rectangular in section as the lot lines will permit. Measurements will be from that corner of the monument which is set exactly in the true corner of the lot. If the lot corner is not accessible, the monument must be set inside the Government lot within five feet of the true corner, and be so shown on the plat together with the exact distances and courses from the nearest corner of such monument to the true lot corner and the adjacent lot lines. Where buildings on the land preclude such setting inside the Government lot lines, such monument should be set in the lot line projected and be so noted on the plat. The survey plat must show the precise position and description of each monument.

8. LANDMARKS OR REFERENCES.—The exact locations of two of such corner monuments must be indicated on the plat with reference to some permanent landmarks or monuments located near by, but on different courses and far enough outside the lot as to remain undisturbed by the construction of the proposed Federal Building. These references must be so completely made that said site monuments, if lost, could be thereby restored. The plat must show these monuments and outside landmarks, together with the measurements and courses between the latter and said referenced corners.

9. SCALE.—Plats of sites whose greatest dimensions exceed 150 feet shall be drawn to a scale of 1/16 inch = 1 foot. All other plats shall generally be drawn to a scale of 1/8 inch = 1 foot, except that where it is necessary to include features not immediately adjoining the site the scale may be reduced to 1/16 inch. The scale must be noted on the plat. In complying with the requirements of paragraph 7 (g) it will not be necessary to reduce the scale of plat.

SHOW ACCURATELY THE FOLLOWING ON THE PLAT:

10. SURROUNDING PROPERTY.—As much as possible of the surrounding properties, but with at least one of the principal streets placed parallel with the edge of the sheet, and if practicable place the northerly side of the site on the top of the sheet.
11. POSITION.—The magnetic and true north point. The angles at all corners and at all changes in direction of lot lines. The area of site in square feet.
12. BUILDINGS-ENCROACHMENTS.—Size and figured position (with reference to the lot lines) of all buildings, areas, retaining walls, etc., and of all overhanging canopies, signs, awnings, or other encroachments upon the site and the material composing

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TREASURY DEPARTMENT,  
OFFICE OF THE SUPERVISING ARCHITECT,  
WASHINGTON, D.C., JANUARY 30, 1925

13. OWNERS' NAMES.—The names of owners of lands adjoining site.
14. CELLARS.—Size, figured position and elevation of bottom of all excavations, cellars, pits, vaults, old walls, etc., and, where possible, the figured position and dimensions of all former excavations now filled up.
15. WELLS.—Figured position of all wells, cisterns, cess-pools, etc., with their size and depth, and the elevation of the surface of any water therein.
16. TREES.—Trees (in their actual measured positions), noting for each the kind and approximate diameter 4 feet above ground, and stating whether trees on site or on sidewalks are healthy and worth retaining; also indicate approximate spread of branches of trees.
17. STREETS AND ALLEYS.—(a) Give name and location of each street and alley abutting on site. If street names have been changed, give former name as well as present name.  
(b) Give figured width of each street and alley abutting on site whether public or private and open or to be officially created.  
(c) State whether streets and alley roadways are paved or not and state material used for paving such roadways and condition thereof.  
(d) Give the officially established elevations for abutting alleys at lot corners adjacent to the street or streets, at the inside corner and at any point where grade changes from a uniform slope.  
(e) If no elevations are officially established give existing elevations at each point where official alley elevations are required.  
(f) If grades of alleys are at established elevations, so state; if not, give in addition to the official elevations the existing elevations, noting as hereinafter stated which grades are established and which are actual.  
(g) Give the officially established elevation at center of each street upon which the Government site is situated, at a point one block each way from their intersection. Indicate by note "established elevation at center of street one block away" with arrow showing direction.

18. SIDEWALKS AND CURBS.—(a) Give the officially established elevation for abutting sidewalks at each corner on the lot line,

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At any intermediate angles, and at any point where grade changes from a uniform slope.

- (b) Give the officially established elevation for top of street curbs at points opposite each lot line extended to curb, at any intermediate angles, and at any point where grade changes from uniform slope.
- (c) If sidewalks and curbs in place are at established grade, so state and indicate the grades; if not at established grades, give in addition to the official elevation the existing elevation of walks and curbs at all points where established elevations are required, noting as hereinafter stated which grades are established and which are actual elevations.
- (d) If no walks or curbs are in place so state and give in addition to the established elevations the existing elevations of the ground at all points where established elevations are required.
- (e) Give officially established width for sidewalks and the established distance from lot line to outside of curb; also the actual measured width and location of walks and curbs in place.
- (f) Give officially established distance from top of curb to bed of gutter; also this distance, actual measurement, for curbs in place.
- (g) The exact point where officially established elevations occur must be plainly indicated on the plat by a large asterisk, thus (\*).
- (h) Note on plat the materials used for sidewalks and curbs and their condition.

- (i) Where elevations and widths of curbs, sidewalks, and elevations of alleys, etc., have not been officially established, confer with the city officials and have same officially established if possible. Advise the city officials that it is contrary to the policy of the Government to place permanent sidewalks and curbs adjacent to Federal building sites when elevations, grades, and widths of curbs and walks have not been officially established. State on the plat what action the city officials propose to take.

19. BUILDING LINE.—The officially established building line and its relation to the street and property line. If none exists, so state on survey.

20. RAILROAD STATIONS.—Indicate the direction and note the distance to the railroad stations by the shortest route over public highways and the street adjacent to Government site which gives access to such route. When such distance is 100 rods or less, actual measurement must be made from a designated lot corner of the Government site to the mail-receiving door of the

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TREASURY DEPARTMENT,  
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WASHINGTON, D.C., JANUARY 30, 1925

21. TRACKS.—Railways (electric or otherwise) crossing street or streets abutting the site.
22. PIPES, ETC.—The location of any right of way, sewer, ditch, conduit, gas, steam, or water pipes, tracks, or cables which may be upon, under, or over the site, together with their ownership and the terms of their rights, if any, to be there. If there is nothing of this character affecting the site, so state on plat.
23. WIRES.—Poles (telephone, telegraph, lightning, or trolley), telegraph poles, etc., stating to whom each pole belongs and what service is carried; giving location of nearest pole belonging to each telephone company in the city, if none appears within the limits of its service.
24. WIRES.—Overhead wires, cables, etc., and underground electric or other conduits, if none exist, so state.
25. MAINS.—Location, size, and designation of all gas, water, and heating mains, noting kind of gas or heat; if there are no such mains, so state.
26. HYDRANTS.—Hydrants, manholes, and catch basins, indicating connections.
27. SEWERS.—The location, size, actual elevation of invert (inside of bottom of sewer) to which the Federal building connection must be made, the rate of fall, and direction of flow of all adjacent sewers; state on survey whether used exclusively for sanitary wastes or roof water, or both; material of which each sewer is constructed; and whether each sewer is "public" or "private."

If elevations of the sewers as above required are not obtainable by actual measurements in manholes, excavations must be made to obtain these levels. Contractor must obtain all necessary permits for making excavations and must be responsible for backfilling, repairs to paving, or any other damage, etc.

28. LEVELS-BENCHMARK.—All levels shall be from city datum and take with a leveling instrument. A benchmark must be established on some permanent object not easily tampered with (as a fire-plug, hydrant, etc.), in a suitable place outside of but near the site and note such benchmark on the plat, together with its elevation.
29. CONTOURS.—Over such portions of the site and of the adjoining 100 foot wide strip of the surrounding lands as are not occupied by buildings, levels must be taken on parallel lines 20 feet apart in two directions, and the elevations at points of intersections, at changes in slopes and bottoms of gullies, excavations, etc., must be indicated on the plat, contour lines over said areas must also be placed on plat, for each difference

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In elevation of 1 foot, and the elevation of each contour line indicated.

30. CITY ENGINEER'S CERTIFICATE.—The plat, before being submitted to the Supervising Architect, must bear a personally signed certificate from the city engineer or other duly qualified and authorized city official (if there be no city engineer), that the true street and lot lines are properly shown, and the officially established grades of curbs, sidewalks, and sewers (and that the materials used in their construction) are also correctly given.

31. NOTE.—All data required by the above specification and location, etc., of the test pit hereinafter referred to must be indicated on the plat. Surveys not in accordance with this specification in every detail will not be accepted.

SOIL INVESTIGATION AND REPORT.

32. TEST PIT.—Dig one test pit to an elevation of approximately 10 feet below the approximate elevation of the curb on the principal street opposite center of site (but not less than 10 feet below surface of the earth), and in the bottom of the pit make a boring with post hole or earth auger extending 5 feet below bottom of pit.

33. ROCK.—If rock is encountered, extend pit to solid rock, remove all thin strata encountered, drill at least 2 feet into solid rock without encountering layers of earth.

34. LOCATION AND SECTION.—Locate the pit on such portion of the lot as will least likely be occupied by the proposed building. Exact size and location of pit and a section through pit showing the different strata encountered shall be shown on survey of site.

35. SHORING AND BACKFILLING.—The pits are to be substantially shored and covered, and must be backfilled when ordered in writing, after the report shall have been verified by a representative of the office of the Supervising Architect, in conjunction with the contractor.

36. SAMPLES.—Forward, express prepaid, samples of the various strata of soil or rock encountered in the pit, in hermetically sealed cans (glass jars not being acceptable) of at least one quart capacity each. Each sample can shall be marked for identification, showing at what elevation sample was taken, together with the name of the city in which the site is located. Samples must be taken and packed in the presence of the office representative and labels must be initialed by him.

37. REPORT.—Upon the features set forth below, submit a report in triplicate (typewritten on paper 8 by 10 1/2 inches), arranged in accordance with the following numbered paragraphs: (One copy of report to be given to office representative in

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TREASURY DEPARTMENT,  
OFFICE OF THE SUPERVISING ARCHITECT,  
WASHINGTON, D.C., JANUARY 30, 1925

1. WORK INCLUDED.—The work included in the following specification consists of making a complete topographical survey and soil investigation for the Federal Building site, named in the accompanying plat.
2. TIME TO COMPLETE.—Each bidder shall state upon the proposal sheet the time within which he will complete the contract. The successful bidder will be required to commence the work promptly when awarded and carry on same continually to its completion within the time stated.
3. SEQUENCE AND VERIFICATION OF WORK.—When the plat of survey has been completed, the test pit dug, shored, and covered, and the report thereon written, the contractor shall notify the office of the Supervising Architect by wire and an office representative will be detailed to visit the site, and, in conjunction with the contractor, to compare the survey and report with the actual conditions at the site, and any errors or omissions noted by the office representative must be corrected or supplied by the contractor, and will then forward the survey, report, and soil samples to the Supervising Architect.
4. ASSISTANCE TO OFFICE REPRESENTATIVE.—The contractor shall render such assistance to the office representative as is necessary to allow a satisfactory examination of the site, pit and boring.
5. PLAT AND COLORS.—The plat of the site must be made on tracing paper, 24 1/2 by 37 inches, cutting size, with border line 1/4 inch inside of each edge; use ink colors but black. Place name of the city and State in the lower right-hand corner in letters 1/4 inch high. All figures must be black and of such size as to insure legibility on blue prints. The survey shall be dated and signed by the contractor.

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING PARTICULARS:

6. VERIFY VENDOR'S SURVEY.—All data indicated on vendor's survey shall be verified.  
Show the courses and distance of the boundaries (measured horizontally with a steel tape and counting only clear building space, exclusive of all sidewalks, alleys, or any other encroachments), note the angles (measured with a transit) and the corner monuments and their references to boundaries, and to outside landmarks, and indicate them on the new plat of the survey, with description thereof. If any discrepancies between the accompanying plat of the vendor's survey and this surveyor's plat are found, the Supervising Architect shall be immediately informed relative to the nature of such discrepancies and the apparent cause for the same. This, however, must not delay the completion of the work called for by this specification.

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SHOW ACCURATELY THE FOLLOWING ON THE PLAT:

10. SURROUNDING PROPERTY.—As much as possible of the surrounding properties, but with at least one of the principal streets placed parallel with the edge of the sheet, and if practicable place the northerly side of the site on the top of the sheet.
11. POSITION.—The magnetic and true north point. The angles at all corners and at all changes in direction of lot lines. The area of site in square feet.
12. BUILDINGS-ENCROACHMENTS.—Size and figured position (with reference to the lot lines) of all buildings, areas, retaining walls, etc., and of all overhanging canopies, signs, awnings, or other encroachments upon the site and the material composing

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16. TREES.—Trees (in their actual measured positions), noting for each the kind and approximate diameter 4 feet above ground, and stating whether trees on site or on sidewalks are healthy and worth retaining; also indicate approximate spread of branches of trees.
17. STREETS AND ALLEYS.—(a) Give name and location of each street and alley abutting on site. If street names have been changed, give former name as well as present name.  
(b) Give figured width of each street and alley abutting on site whether public or private and open or to be officially created.  
(c) State whether streets and alley roadways are paved or not and state material used for paving such roadways and condition thereof.  
(d) Give the officially established elevations for abutting alleys at lot corners adjacent to the street or streets, at the inside corner and at any point where grade changes from a uniform slope.  
(e) If no elevations are officially established give existing elevations at each point where official alley elevations are required.  
(f) If grades of alleys are at established elevations, so state; if not, give in addition to the official elevations the existing elevations, noting as hereinafter stated which grades are established and which are actual.  
(g) Give the officially established elevation at center of each street upon which the Government site is situated, at a point one block each way from their intersection. Indicate by note "established elevation at center of street one block away" with arrow showing direction.

18. SIDEWALKS AND CURBS.—(a) Give the officially established elevation for abutting sidewalks at each corner on the lot line,

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At any intermediate angles, and at any point where grade changes from a uniform slope.

- (b) Give the officially established elevation for top of street curbs at points opposite each lot line extended to curb, at any intermediate angles, and at any point where grade changes from uniform slope.
- (c) If sidewalks and curbs in place are at established grade, so state and indicate the grades; if not at established grades, give in addition to the official elevation the existing elevation of walks and curbs at all points where established elevations are required, noting as hereinafter stated which grades are established and which are actual elevations.
- (d) If no walks or curbs are in place so state and give in addition to the established elevations the existing elevations of the ground at all points where established elevations are required.
- (e) Give officially established width for sidewalks and the established distance from lot line to outside of curb; also the actual measured width and location of walks and curbs in place.
- (f) Give officially established distance from top of curb to bed of gutter; also this distance, actual measurement, for curbs in place.
- (g) The exact point where officially established elevations occur must be plainly indicated on the plat by a large asterisk, thus (\*).
- (h) Note on plat the materials used for sidewalks and curbs and their condition.
- (i) Where elevations and widths of curbs, sidewalks, and elevations of alleys, etc., have not been officially established, confer with the city officials and have same officially established if possible. Advise the city officials that it is contrary to the policy of the Government to place permanent sidewalks and curbs adjacent to Federal building sites when elevations, grades, and widths of curbs and walks have not been officially established. State on the plat what action the city officials propose to take.

19. BUILDING LINE.—The officially established building line and its relation to the street and property line. If none exists, so state on survey.
20. RAILROAD STATIONS.—Indicate the direction and note the distance to the railroad stations by the shortest route over public highways and the street adjacent to Government site which gives access to such route. When such distance is 100 rods or less, actual measurement must be made from a designated lot corner of the Government site to the mail-receiving door of the

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TREASURY DEPARTMENT,  
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- STATION. State the distance approximately when same exceeds 100 feet.
21. TRACKS.—Railways (electric or otherwise) crossing street or streets abutting the site.
22. PIPES, ETC.—The location of any right of way, sewer, ditch, conduit, gas, steam, or water pipes, tracks, or cables which may be upon, under, or over the site, together with their ownership and the terms of their rights, if any, to be there. If there is nothing of this character affecting the site, so state on plat.
23. POLES.—Poles (telephone, telegraph, lightning, or trolley), telegraph poles, etc., stating to whom each pole belongs and what service is carried; giving location of nearest pole belonging to each telephone company in the city, if none appears within the limits of its service.
24. WIRES.—Overhead wires, cables, etc., and underground electric or other conduits, if none exist, so state.
25. MAINS.—Location, size, and designation of all gas, water, and heating mains, noting kind of gas or heat; if there are no such mains, so state.
26. HYDRANTS.—Hydrants, manholes, and catch basins, indicating connections.
27. SEWERS.—The location, size, actual elevation of invert (inside of bottom of sewer) to which the Federal building connection must be made, the rate of fall, and direction of flow of all adjacent sewers; state on survey whether used exclusively for sanitary wastes or roof water, or both; material of which each sewer is constructed; and whether each sewer is "public" or "private."

If elevations of the sewers as above required are not obtainable by actual measurements in manholes, excavations must be made to obtain these levels. Contractor must obtain all necessary permits for making excavations and must be responsible for backfilling, repairs to paving, or any other damage, etc.

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29. CONTOURS.—Over such portions of the site and of the adjoining 100 foot wide strip of the surrounding lands as are not occupied by buildings, levels must be taken on parallel lines 20 feet apart in two directions, and the elevations at points of intersections, at changes in slopes and bottoms of gullies, excavations, etc., must be indicated on the plat, contour lines over said areas must also be placed on plat, for each difference

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IN ELEVATION OF 1 FOOT, AND THE ELEVATION OF EACH CONTOUR LINE INDICATED.

30. CITY ENGINEER'S CERTIFICATE.—The plat, before being submitted to the Supervising Architect, must bear a personally signed certificate from the city engineer or other duly qualified and authorized city official (if there be no city engineer), that the true street and lot lines are properly shown, and the officially established grades of curbs, sidewalks, and sewers (and that the materials used in their construction) are also correctly given.
31. NOTE.—All data required by the above specification and location, etc., of the test pit hereinafter referred to must be indicated on the plat. Surveys not in accordance with this specification in every detail will not be accepted.

SOIL INVESTIGATION AND REPORT.

32. TEST PIT.—Dig one test pit to an elevation of approximately 10 feet below the approximate elevation of the curb on the principal street opposite center of site (but not less than 10 feet below surface of the earth), and in the bottom of the pit make a boring with post hole or earth auger extending 5 feet below bottom of pit.
33. ROCK.—If rock is encountered, extend pit to solid rock, remove all thin strata encountered, drill at least 2 feet into solid rock without encountering layers of earth.
34. LOCATION AND SECTION.—Locate the pit on such portion of the lot as will least likely be occupied by the proposed building. Exact size and location of pit and a section through pit showing the different strata encountered shall be shown on survey of site.
35. SHORING AND BACKFILLING.—The pits are to be substantially shored and covered, and must be backfilled when ordered in writing, after the report shall have been verified by a representative of the office of the Supervising Architect, in conjunction with the contractor.
36. SAMPLES.—Forward, express prepaid, samples of the various strata of soil or rock encountered in the pit, in hermetically sealed cans (glass jars not being acceptable) of at least one quart capacity each. Each sample can shall be marked for identification, showing at what elevation sample was taken, together with the name of the city in which the site is located. Samples must be taken and packed in the presence of the office representative and labels must be initialed by him.
37. REPORT.—Upon the features set forth below, submit a report in triplicate (typewritten on paper 8 by 10 1/2 inches), arranged in accordance with the following numbered paragraphs. (One copy of report to be given to office representative in charge