8282

Original

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. ..... *Office No.* T-8282

LOCALITY

State Maryland

General locality Eastern Shore

Locality Sudlersville

194 4

CHIEF OF PARTY

Ray L. Schoppe - Field
Kenneth G. Crosby - Compilation

LIBRARY & ARCHIVES

DATE June 24, 1946

8-1870-1 (1)++

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Form T-1

DATA RECORD

T- 8282

Quadrangle (II): T-8282 Project No. (II): CS 288 A

Sudlersville
N 3907.5 W 7545/7.5

Field Office: War Mapping Field Party #2 Chief of Party: Ray L. Schoppe

Compilation Office: Tampa, Florida Chief of Party: Kenneth G. Crosby

Instructions dated (II III): May 13, 1943
May 13, 1943

Copy filed in Descriptive Report No. T- (VI)

Completed survey received in office: 2/44

Reported to Nautical Chart Section: 4/44

Reviewed: 4/18/44 Applied to chart No. Date:

Redrafting Completed: 6/44

Registered: 5/46 Published: 1/45

Compilation Scale: 1:20,000 Published Scale: 1:31680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L. 1929

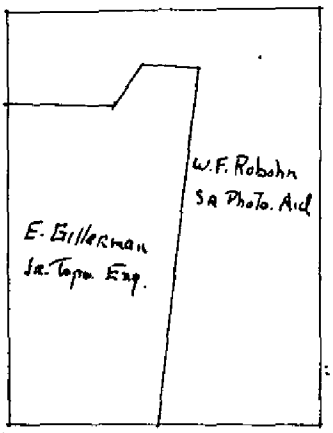
Reference Station (III): Barclay, 1896

Lat.:	Long.:	Adjusted ~~Unadjusted~~
39° 08' 33.682"(1038.7m)	75°51'03.244"(77.9m)	

State Plane Coordinates (VI): Maryland - Single Zone

X = 1,125,911.72 Ft. Y = 478,894.78 Ft.

Military Grid Zone (VI) A


W.F. Robohn
SA Photo. Aid
E. Billerman
Jr. Topo. Eng.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
12746	Dec. 4,1942	----	1:20,000	Inshore Sheet
12747	"	"	"	
12762	"	"	"	
12763	"	"	"	

Tide from (III): ----

Mean Range: ----- Spring Range: ----

Camera: (Kind or source) U.S.C. & G.S. Nine Lens

Field Inspection by: E. Gillerman date: November, 1943
W. F. Robohn December, 1943
4 Contours

Field Edit by: date:

Date of Mean High-Water Line Location (III): ----

Projection and Grids ruled by (III) Washington Off. date: June 1943

" " " checked by: " " date: "

Control plotted by: E. C. Andrews, Photo Aid date: Oct.7,1943

Control checked by V.F. Simmons,Sr.Photo. Aid date: Oct.8,1943

Radial Plot by: Tampa Office Personnel date: Oct. 20,1943

Detailed by: Alpha E. Abbitt, Ass't Engr.Drafts. date:Nov.1943-Jan.1944

Reviewed in compilation office by: A.L.Kidwell, Jr.Topo.Engr. date: Feb.1944
J.H.S.Billmyer,Ass't Photo.Engr.

Elevations on Field Edit Sheet checked by: C. M. Shinn, Jr. date: December, 1943

STATISTICS (III)

Land Area (Sq. Statute Miles): 57.8

Shoreline (More than 200 meters to opposite shore): 1.5 st. mis.

Shoreline (Less than 200 meters to opposite shore): 27.6 " "

Number of Recoverable Topographic Stations established: ----

Number of Temporary Hydrographic Stations located by radial plot: ----

Leveling (to control contours) - miles: 84.7

Roman numberals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 288 A was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Baltimore~~ Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blueline" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DESCRIPTIVE REPORT TO ACCOMPANY
QUADRANGLE T-8282
PROJECT CS 288 B
Ray L. Schoppe, Comdr., Chief of Party

1. Description of the Area. The area involved is a 7½-minute quadrangle, bounded on the west by west longitude 75°52½', on the north by north latitude 39°15', on the south by north latitude 39°07½', and on the east by west longitude 39°45'. It is located in Kent, Caroline, and Queen Anne's counties, Maryland, and Kent county, Delaware.

Except for the northern portion, which slopes toward the Chester River, and where the land is cut by smaller streams and ditches, this is a flat level plain, rising gently to the south and east. The highest portion is slightly over 80 feet in elevation. Originally, much of the eastern half of the quadrangle was swampy, with no drainage. However, most of the swamps have now been drained by small ditches, and many larger streams have been deepened to aid in the reclaimation of the swamplands. There are still, in this particular part of the quadrangle, many depressions with no drainage outlet.

The eastern, swampy portion of the quadrangle is covered with dense woods, mostly deciduous. The remainder of the quadrangle is in cultivation.

The towns of Sudlersville and Barclay lie within the limits of this quadrangle.

2. Completeness of Field Inspection. Field inspection in the town of Sudlersville was completed on nine lens photograph number 12803. With this exception, all field inspection for the clarification and classification of detail was done on nine lens photographs numbers 12745, 12746, 12747, 12748, 12761, 12762, 12763, 12764. All roads, culture, vegetation and drainage have been classified and labeled on the photographs.

3. Interpretation of the Photographs. No particular information is necessary in this regard. Pine forests appear as almost black masses, whereas deciduous forests are a grayer tone. Any detail of doubtful nature has been indicated and classified during the field inspection.

4. Horizontal Control. All horizontal control needed to complete the radial plot were recovered by another party. Traverse stations established by two third order control traverses run in 1943 have also been recovered. Refer to the report of the recovery party.

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5. Vertical Control. Vertical control for the planetable work included U. S. Coast and Geodetic Survey bench marks and supplementary level lines established by W. F. Robohn, Senior Photogrammetric Aid, and party. Supplemental elevations were established at easily recognized points such as road intersections, fence lines along roads, on bridges and culverts, etc. The RX10B line had the greatest closure: 0.54 foot. All elevations were adjusted, and the adjusted elevations inked on the photograph.

6. Contours and Drainage. The sketching of the contours was done on 1:20,000 scale aerial photographs numbers 12745, 12746, 12747, 12748, 12761, 12762, 12763, 12764, by standard methods using the standard U. S. Coast and Geodetic Survey planetable and alidade. The planetable location was taken from identifiable points on the photographs, or short traverses were run from such identifiable points to the desired location. The table was oriented wherever possible by sighting at or along detail on the photographs. In addition a magnetic meridian, obtained by setting up at a place where a particularly strong orientation could be secured, was placed upon the photograph. This was checked frequently, and with the aid of a declinator, was employed to orient the table when no other method could be used. Rather extensive use of the hand level was resorted to in the eastern half of the quadrangle where the woods were most dense. Here cross section lines were run in the woods at various places in order to obtain elevations and place the contours.

The streams had been previously located on the photographs in the Washington Office, with the aid of a stereoscope. Stream locations were checked in the field, and changes made wherever necessary. Many streams were located by measurements from identifiable detail. Many ditches, large and small, are present throughout the area. All ditches to be deleted have been marked with a green "X". Those to be shown are marked "ditch", and may or may not be indicated by a blue line. Many of the ditches are originally streams, and these are marked as intermittent or perennial streams, rather than ditches.

7. Mean High-Water Line. Not applicable to this quadrangle.

8. Low-Water Line. Not applicable to this quadrangle.

9. Wharves and Shoreline Structures. Not applicable to this quadrangle.

10. Details Offshore from the High-Water Line. Not applicable, to this quadrangle.

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11. Landmarks and Aids to Navigation. Not applicable to this quadrangle.

12. Hydrographic Control. Not applicable to this quadrangle.

13. Landing Fields and Aeronautical Aids. There are no landing fields or aeronautical aids within the boundaries of this quadrangle.

14. Road Classification. All roads were classified according to instructions. Roads to be deleted have been indicated. Wherever names and number designations of roads were obtainable, they also are indicated.

15. Bridges. Bridges were classified according to instructions by C. C. Fryer, Junior Topographic Engineer.

16. Buildings and Structures. All buildings to be shown on the finished map have been circled in red and classified. Those not so marked are to be deleted. Within Sudlersville and Barclay, buildings circled but not classified are to be shown as dwellings.

17. Boundary Monuments and Lines. The Delaware-Maryland state boundary line was located by recovering the boundary stones wherever possible. Triangulation Station "Marydel" is also on the boundary line, and has been recovered. The boundary is not indicated on the photographs, but it is believed that after the radial plot is laid, this boundary may very easily be put on the finished map by using the boundary monuments which are located.

All other political subdivisions have been located and shown by C. C. Fryer, Junior Topographic Engineer.

18. Geographic Names. This will be the subject of a special report.

19. Vegetation. All vegetation has been classified in accordance with instructions.

20. Junctions. Junctions with quadrangle T-8286 to the north, T-8281 to the west, and T-8276 to the south were checked and compared in the field. To the east the area is covered by a Geological Survey Topographic Map surveyed in 1926 on a scale of 1:62,500 (Dover Quadrangle). Junctions with this map appear to check satisfactorily.

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21. Accuracy Tests. A vertical accuracy test was run at approximate latitude 39°07.5' and longitude 75°45.3' on November 30, 1943, by Charles Hamavich, Principal Photogrammetric Aid. This area was contoured by W. Robohn, Senior Photogrammetric Aid, on photograph number 12745. A portion of a 60-foot contour was tested, this method having been used because this area does not offer much relief. The accuracy of the 60-foot field contour was found to be within the limits of accuracy. A tracing of the accuracy test has been made and checked. The dots on the tracing indicate the 60-foot elevation ascertained in the field by the vertical accuracy test party.

A horizontal accuracy test was run , and is available for test purposes.

22. Data. Contouring and field inspection are shown on photographs numbers 12761 (previously forwarded with quadrangle T-8286), 12762, 12746, 12747, 12745 (all of which were forwarded with quadrangle T-8276), and 12763. Supplementary fly levels appear on photographs 1590, 12745, 12764 (all forwarded with quadrangle T-8276), and 12803 (forwarded with quadrangle T-8281). Bridges are classified on photographs 12745, 12746, 12747, 12762, 12763, and 12764, and political boundaries appear on photographs 12762, 12747, and 12764, all of which were forwarded with quadrangle T-8276.

Respectfully submitted:

January 7, 1944

Elliot Gillerman

Elliot Gillerman
Junior Topographic Engineer

Approved:

Ray L. Schoppe
Chief of Party

Walter F. Robohn

Walter F. Robohn ,
Senior Photogrammetric Aid

COMPILATION REPORT

To Accompany

SHEET T - 8282

26. CONTROL

Twelve control stations that fell on this sheet were recovered and all were "held to" in the radial plot. These stations, although not too well distributed, were sufficient when used in conjunction with the control on the adjoining sheets.

27. RADIAL PLOT

The main radial plot, of which this quadrangle was a part, is discussed in the compilation report for Sheet T-8252.

28. DETAILING

The photographs from which the detailing was done were clear and of fair scale. The field inspection was sufficient and complete, except for a few minor discrepancies, which have been noted on a discrepancy overlay accompanying this sheet.

Quite a few "picture points" were tied in by traverse and geographic position for them were computed. However, these points were not identified on the field photographs so they could not be used in the radial plot. They are shown on the sheet as triangles, but should not be shown on the final reproduction as they are non-recoverable stations.

29. SUPPLEMENTAL CONTROL

No graphic control surveys by this Bureau, or maps and plans by other organizations were used to supplement the photographs or field inspection notes.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE

In comparing the sheet with the Geological Survey Quadrangle map of the area, many small changes were noted, which are only to be expected after a period of more than forty years, which is the difference between the dates of the two surveys. These changes are not of enough importance to mention in detail.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical Charts, which cover the area shown on T-8282, were available in the compilation office.

Respectfully submitted,

Alpha E. Abbitt.
Ass't.Engr.Draftsman.

Forwarded by:

Kenneth G. Crosby,
Chief of Party.

FIELD EDIT REPORT
QUADRANGLE T 8282
PROJECT CS 288 B
R. L. Schoppe, Chief of Party

1. DESCRIPTION OF AREA: See field inspection report.

2. COMPLETENESS OF FIELD INSPECTION: See field inspection report.

3. INTERPRETATION OF THE PHOTOGRAPHS: See field inspection report.

4. HORZONTAL CONTROL: See field inspection report.

5. VERTICAL CONTROL: See field inspection report. All bench marks and level elevations have been checked and verified by the field edit party.

6. CONTOURS & DRAINAGE: Discrepancies on the discrepancy overlay have been inspected and corrected where necessary.

All major drainages are bordered by wet-weather-swamp. Due to the very low stream gradient a greater part of the bottoms flood during the spring and winter months. The boundaries of these low areas are very irregular and difficult to show accurately, hence the boundaries shown are only approximate. Many swampy depressions located in flat, wooded areas, also proved difficult to locate. None have well-defined borders but tend to grade off gradually to firmer ground. Many of these depressions are entered by small drainage ditches, however the flatness of the terrain makes the drainage of these depressions a very slow process.

7. thru 12. Items inapplicable to this sheet.

13. LANDING FIELDS & AERONAUTICAL AIDS: There are no landing fields or aeronautical aids within the limits of this quadrangle.

14. ROAD CLASSIFICATION: All roads have been classified and shown in accordance with instructions from the army war college, dated Jan. 12, 1942.

15. BRIDGES: Bridge classifications were made in accordance with instructions issued from the War Dept., dated July 28, 1942, and have been shown in key on the sheet by C.C. Fryer, Jr. Topo. Engr.

16. BUILDINGS: IN general there were few buildings to be classified, added, or deleted.

17. BOUNDARY MONUMENTS & LINES: See field inspection report.

18. GEOGRAPHIC NAMES: This has been a subject of a separate report. LH.

46. METHODS: The field work and office work was accomplished on the same ozalid. A duplicate ozalid furnished this office was printed in reverse hence was not satisfactory for use. Discrepancies not covered by a suitable symbol were noted on the compilation by a sentence and a arrow to the point in question.

All symbols used are standard topographic symbols except that a green X was used for deletions and a tick mark was used to show limits of deletion and points of change in road classification. The following color scheme was used.

Deletions	Green
Additions, classifications, names, notes, and elevations	Black
Water Culture	Blue

47. ADEQUACY OF COMPILATION: The compilations of this sheet was complete and adequate with few additions, classifications, or deletions necessary.

48. ACCURACY TESTS: See field inspection report.

Submitted By;

Wendell Bever
Jr. Topo. Engr.

Approved By;

Ray L. Schoppe
Chief of Party

	Remarks	Decisions
1		USGB
2		"
3		
4		
5		USGB
6		
7		
8		
9		
10		
11		Railway Guide
12	No. 394 is from Md. 1941 Gazetteer	Road Maps
13		
14		391757
15		"
16		"
17		"
18		"
19		"
20		"
21		392757
22		392758
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8282

SUDLERSVILLE quadrangle

1 Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Maryland	✓									1
Delaware	✓									2
Kent County	✓ (Del.)									3
Kent County	✓ (Md.)									4
Queen Annes County	✓ "									5
Caroline County	✓ "									6
Massey No. 1	✓ (Kent Co., Md.)									7
Dixon No. 1	✓ (C.A. Co., Md.)									8
Crumpton No. 7	✓ "									9
Henderson No. 1	✓ (Caroline Co., Md.)				✓					10
Pennsylvania R.R. (Centerville Branch)										11
State Roads Nos. 300,	✓ 302,	✓ 313,	✓ 454,	394 (last at Templeville)						12
										13
Templeville	✓									14
Carson Corners	✓									15
Schenk Corners	✓									16
Moore Chapel	✓									17
Peters Corners	✓									18
Cleaves Forks	✓ (must await return of name sheet for position)									19
Bear Pen Road	✓ ditto: also on quad. to south									20
Sewell Branch	✓									21
Andover Branch	✓									22
Unicorn Branch	✓									23
Hackett's Corners	✓									24
Stevens Corners	✓									25
Unicorn	✓ (settlement) await return of name sheet									26
Unicorn Branch Road	✓			"						27

M 234

	Remarks	Decisions
1		392758
2		391758
3		"
4		"
5		390758
6		
7		
8		
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M 234

GEOGRAPHIC NAMES

Survey No. T-8282

2 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Millington Road		(also on quad. to west)								1
Sudlersville										2
Duhemel Corners										3
Barclay										4
Long Marsh Ditch		(only a very little of it here)								5
										6
										7
										8
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Names underlined in red approved by L. Heck on 5/6/44

M 234

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

published quadrangle at 1:20,000 scale

Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For ~~political boundaries~~, woodland, ~~marsh, and swamp limits~~, refer to the published quadrangle for the finally adopted ~~positions.~~

Descriptive Report.

Division.

Filed in the Photogrammetric ~~Section -- Surveys Branch~~

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review~~ing Unit.~~ Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

Special report on field work by Commander K. T. Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

Original celluloid manuscript.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8282

SUDLERSVILLE QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

A horizontal accuracy test was run in this quadrangle and found to be satisfactory. See the files in the Division of Photogrammetry.

A vertical accuracy test was run in this quadrangle and found to be satisfactory. See item 21 in this Descriptive Report.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

There are no previous topographic surveys in this area.

Comparison with Nautical Charts Nos.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

There are no nautical charts which cover this area.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed April 10, 1944 By Mary M. Walden (per D.M.)
under direction of D. H. Benson

Inspected by B. G. Jones B.G. Jones 5/46

Examined and approved:

K.T. Adams
Chief, ~~Surveys Branch~~
Division of Photogrammetry

Robert W. Knox
Chief, Div. of Charts
Nautical Chart Branch

~~Chief, Topography Section~~

Raymond B. Eyman
Chief, Div. of Coastal Surveys

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________________

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
~~458~~ 548	9/11/69	Chapman	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 21 Exam. NO. Corr
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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