



P.O. Box 1944 • Glenwood Springs, Colorado 81602 • 970-945-2431 • Colorado Wats 1-800-332-4920 • FAX 970-945-8245

November 9, 2001

United States Army
Corps of Engineers
4th and Rood
Grand Junction, Colorado 81501

Attn. Randy Snyder

Re. Glenwood Springs 27th Street Bridge

Dear Randy,

Following is our application for a permit Nationwide #33 permit to work in the Roaring Fork River in Glenwood Springs.

We are in the process of rehabilitating a 3-span steel bridge. The bridge has two piers founded at the edge of the river. The piers are founded on steel H-piles with a concrete pile cap. The pile cap on the West bank of the river has experienced scour across about half of it's width and the entire length. The scour is approximately 2' to 3' deep at the river face of the pile cap. Our proposed work is a temporary fix to ensure the structural stability of the rehabilitated bridge while permanent resolution of the scour problem is evaluated and options are weighed.

Our proposed fix involves isolating the scoured area with sheet-piling and filling the scoured area with tremie concrete, then removing the sheet piling and restoring the disturbed bank area. The bank is very steep down to the pile cap. We propose to lower by crane a mini-excavator to the area adjacent to the pile cap and place sheet-pile with that mini-excavator. We will clean the area below the pile cap with an air-lift vacuum. The intention is clean the river bottom surface of only minimal fine material to facilitate bond between the new tremie concrete fill and the river bottom. Less than two cubic yard of material is expected. The material removed will be captured in silt fence barriers on the bank and disposed. Sheet pile will be placed to contain the new tremie concrete fill and the removed after the concrete has set. The access area will be restored and the area vacated.

We are prepared to begin this work immediately upon issuance of a permit. Should any further information be required please do not hesitate to call.

Sincerely

A handwritten signature in black ink, appearing to read "Ray Schmahl". The signature is fluid and cursive, written over the word "Sincerely".

Ray Schmahl
General Manager

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
(33 CFR 325)

OMB APPROVAL NO. 0710-0003
Expires June 30, 2000

The Public burden for this collection of information is estimated to average 40 minutes per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research and Sanctuaries Act, 33 USC 1413, Section 103. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)


1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED
--------------------	----------------------	------------------	-------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME CITY OF GLENWOOD SPRINGS	8. AUTHORIZED AGENT'S NAME AND TITLE (an agent is not required) TRAY SCHMAHL GENERAL MANAGER
6. APPLICANT'S ADDRESS 806 COOPER AVENUE GLENWOOD SPRINGS CO. 81601	9. AGENT'S ADDRESS P.O. BOX 1944 GLENWOOD SPRINGS, COLORADO 81602
7. APPLICANT'S PHONE NOS. W/AREA CODE a. Residence b. Business 970 945-2575 EX 6039	10. AGENT'S PHONE NOS. W/AREA CODE a. Residence b. Business 970-945-2431

11. STATEMENT OF AUTHORIZATION

I hereby authorize, TRAY SCHMAHL to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

 (King Wloyd)
APPLICANT'S SIGNATURE

11/8/01
DATE

NAME, LOCATION AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) 27TH STREET BRIDGE REHABILITATION	14. PROJECT STREET ADDRESS (if applicable)
13. NAME OF WATERBODY, IF KNOWN (if applicable) ROARING FORK RIVER	
15. LOCATION OF PROJECT GARFIELD COUNTY CO. STATE	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN, (see instructions)

17. DIRECTIONS TO THE SITE **FROM GLENWOOD SPRINGS DOWNTOWN GO SOUTH ON GRAND AVENUE (STATE HWY 82) TO THE FORK AT SOUTH GRAND AVE.. STAY RIGHT AT THE FORK APPROX 1 MILE SOUTH TO BRIDGE SITE. (SEE ATTACHED MAP.)**

18. Nature of Activity (Description of project, include all features) **THE PROPOSED WORK INVOLVES FILLING AN AREA BELOW PILE CAPS, THAT HAS BEEN SCOURED BY THE RIVER, WITH CONCRETE CONTAINED BY SHEET PILING. THE ACTIVITIES WILL INCLUDE BUILDING SMALL ACCESS TO THE PILE CAP FOR A MINI-EXCAVATOR THAT WILL PLACE THE SHEET PILES AND THEN PUMPING UNDERWATER TREMIE CONCRETE TO FILL THE VOID BENEATH THE PILE CAP AND THEN REMOVING THE SHEET PILES AND REGRADING THE BANK TO ITS PREVIOUS CONDITION.**

19. Project Purpose (Describe the reason or purpose of the project, see instructions) **REMEDiate THE EFFECTS OF SCOUR ON THE EXISTING BRIDGE PIERS.**

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge **TO CLEAN THE RIVER BOTTOM SURFACE BELOW THE PILE CAPS FOR BETTER BOND OF TREMIE CONCRETE TO SURFACE.**

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards **SILT AND SMALL RIVER GRAVEL APPROX. 1 CUBIC YARD FROM EACH OF 2 PILE CAPS.**

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions) **NONE**

23. Is Any Portion of the Work Already Complete? Yes No (IF YES, DESCRIBE THE COMPLETED WORK) **THIS WORK IS PART OF AN OVERALL BRIDGE REHABILITATION. THE SUPERSTRUCTURE OF THE BRIDGE DONE, NEW GUARDRAILS AND THE WORK OF THIS APPLICATION REMAIN.**

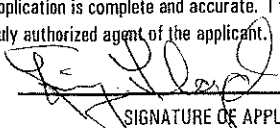
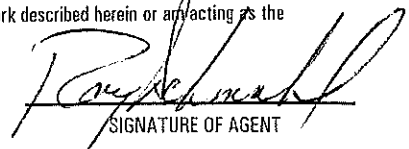
24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please attach a supplemental list).
 ① GLENWOOD SPRINGS RAQUET CLUB ASSOC. PO. BOX 1107 GLENWOOD 81602
 ② SOUTHFIELD HOLDING CORP. 223 N. CASCADE COLO. SPRS. CO. 80903-1325
 ③ CITY OF GLENWOOD SPRINGS 806 COOPER GWS CO. 81601
 ④ RIPPY, BULLOCK PO BOX 272 GWS CO. 81602

25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED

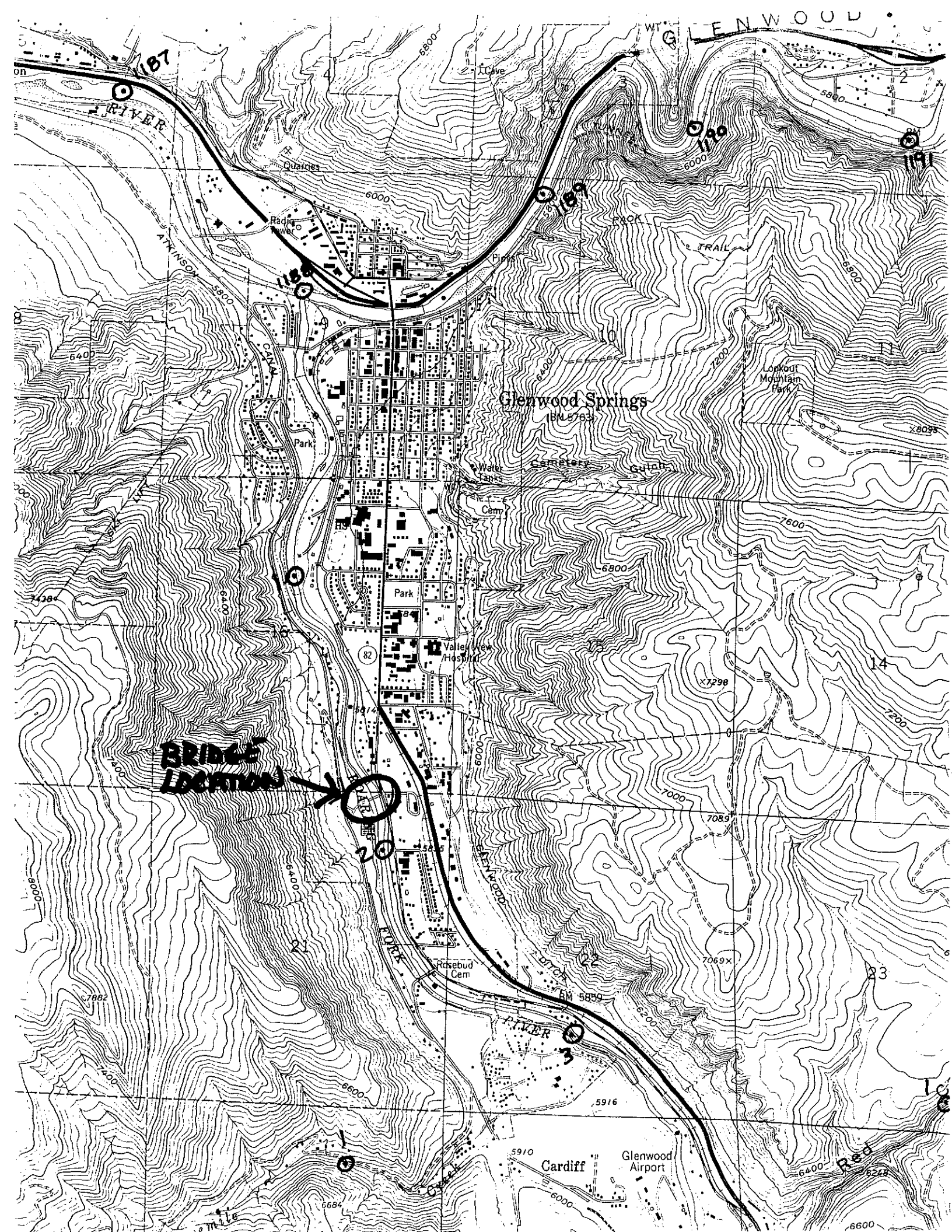
*Would include but is not restricted to zoning, building and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or acting as the duly authorized agent of the applicant.

 SIGNATURE OF APPLICANT
 11/9/01 DATE
  SIGNATURE OF AGENT
 11/9/01 DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



GLENWOOD

187

189

191

187

188

Glenwood Springs
BM 5763

BRIDGE

20

21

22

23

Cardiff

Glenwood Airport

Red

ELK RIVER

ATKINSON

CHRYSLER

ELK RIVER

ELK RIVER

TRAIL

Longfellow Mountain Park

Park

Valley View Hospt

Rosebud Cem

Cemetery

Cemetery

Cem

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

Water

640

640

640

640

640

640

640

640

6800

6800

6800

6800

6800

6800

7000

7000

7000

7000

7000

7600

7600

7600

7600

7600

7600

8500

8500

8500

8500

8500

8500

8500

8000

8000

8000

8000

8000

8000

7882

7882

7882

7882

6684

5916

5910

5910

7069x

7069x

7069x

7069x

x8098

x7298

7069x

6242

6600

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

187

18. Nature of Activity (Description of project, include all features) **THE PROPOSED WORK INVOLVES FILLING AN AREA BELOW PILE CAPS THAT HAS BEEN SCOURED BY THE RIVER, WITH CONCRETE CONTAINED BY SHEET PILING. THE ACTIVITIES WILL INCLUDE BUILDING SMALL ACCESS TO THE PILE CAP FOR A MINI-EXCAVATOR THAT WILL PLACE THE SHEET PILES AND THEN PUMPING UNDERWATER TREMIE CONCRETE TO FILL THE VOID BENEATH THE PILE CAP AND THEN REMOVING THE SHEET PILES AND REGRADING THE BANK TO ITS PREVIOUS CONDITION.**

19. Project Purpose (Describe the reason or purpose of the project, see instructions) **REMEDiate THE EFFECTS OF SCOUR ON THE EXISTING BRIDGE PIERS.**

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge **TO CLEAN THE RIVER BOTTOM SURFACE BELOW THE PILE CAPS FOR BETTER BOND OF TREMIE CONCRETE TO SURFACE.**

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards **SILT AND SMALL RIVER GRAVEL APPROX. 1 CUBIC YARD FROM EACH OF 2 PILE CAPS.**

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions) **NONE**

23. Is Any Portion of the Work Already Complete? Yes No **IE YES, DESCRIBE THE COMPLETED WORK**
THIS WORK IS PART OF AN OVERALL BRIDGE REHABILITATION. THE SUPERSTRUCTURE OF THE BRIDGE DONE. NEW GUARDRAILS AND THE WORK OF THIS APPLICATION REMAIN.

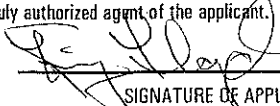
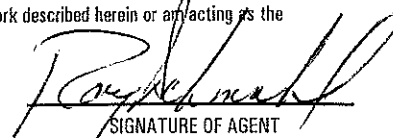
24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please attach a supplemental list).
 ① GLENWOOD SPRINGS RAQUET CLUB ASSOC. PO. BOX 1107 GLENWOOD 81602
 ② SOUTHFIELD HOLDING CORP. 228 N. CASCADE COLO. SPRS. CO. 80903-1325
 ③ CITY OF GLENWOOD SPRINGS 206 COOPER GWS CO. 81601
 ④ RIPPY, BULLOCK PO BOX 272 GWS CO. 81602

25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED

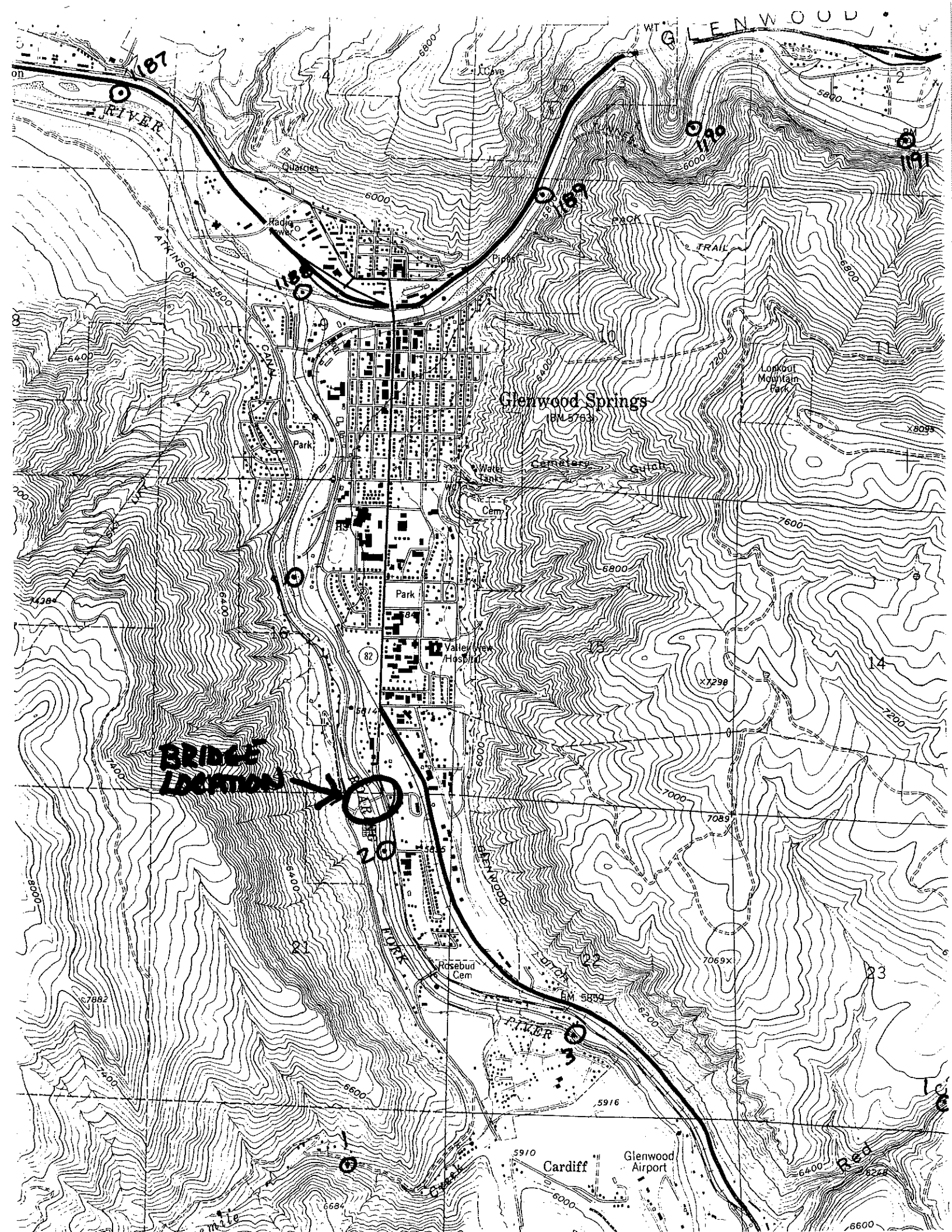
*Would include but is not restricted to zoning, building and flood plain permits

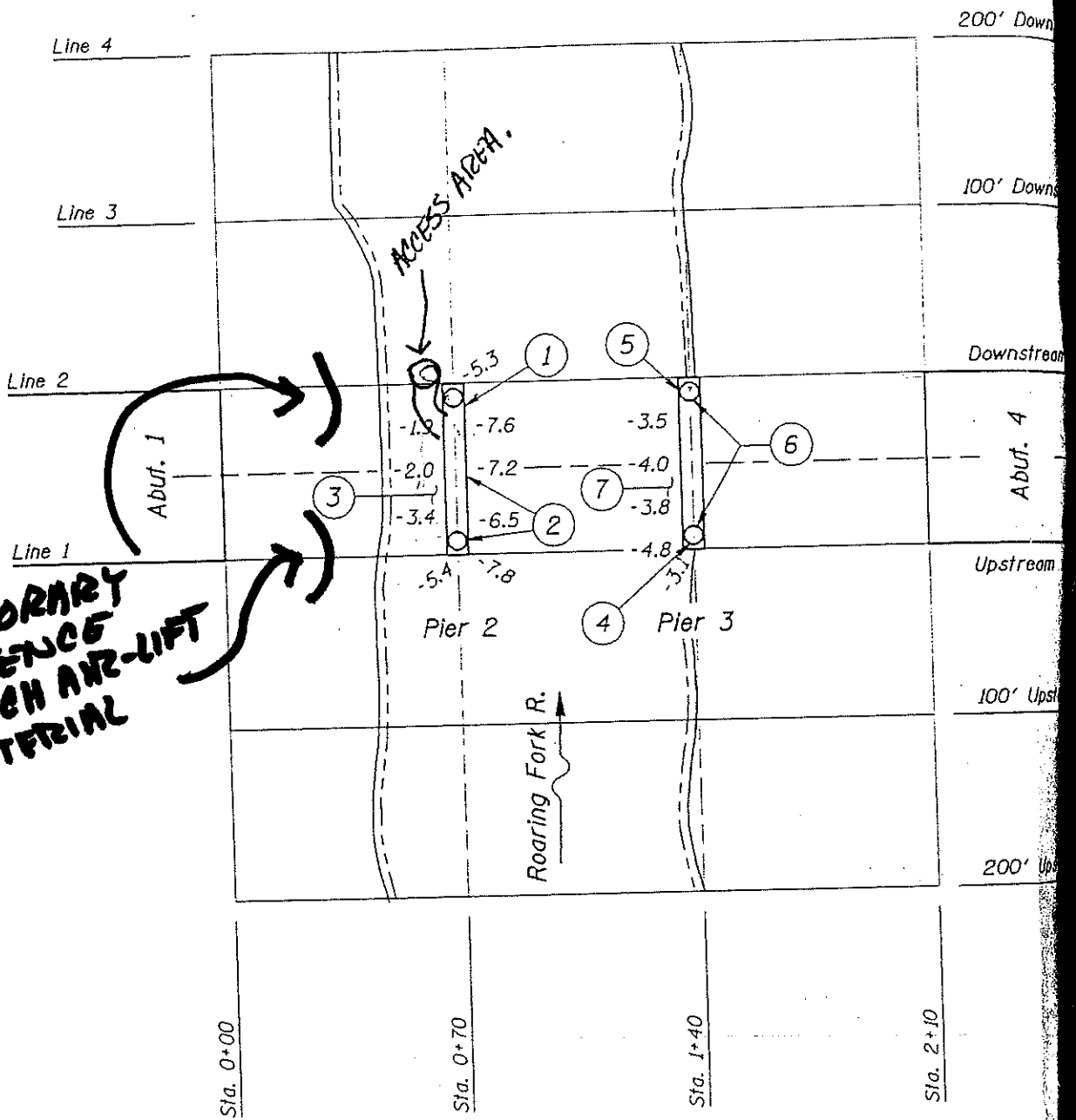
26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

 SIGNATURE OF APPLICANT 11/9/01 DATE  SIGNATURE OF AGENT 11/9/01 DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

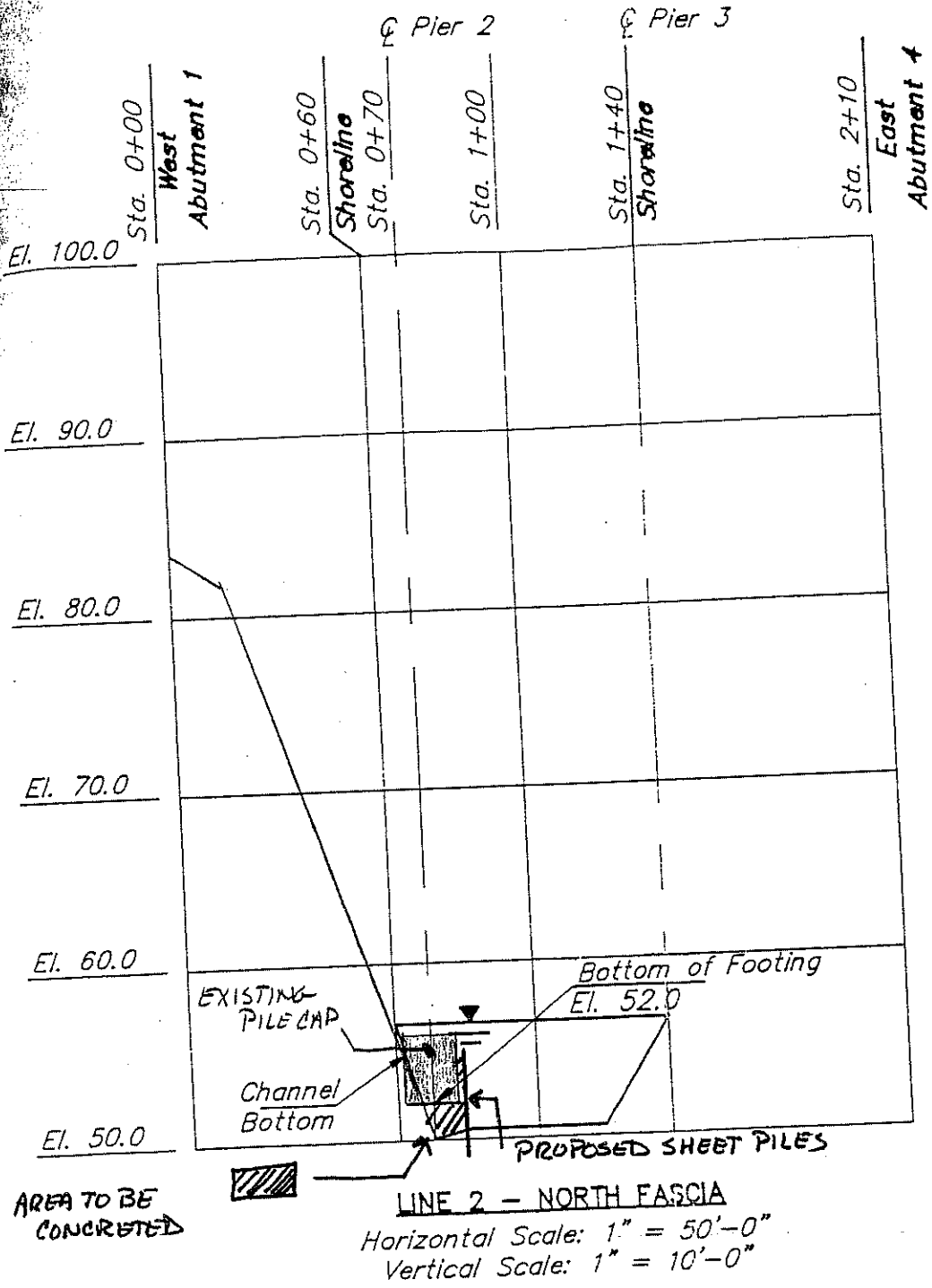
18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.



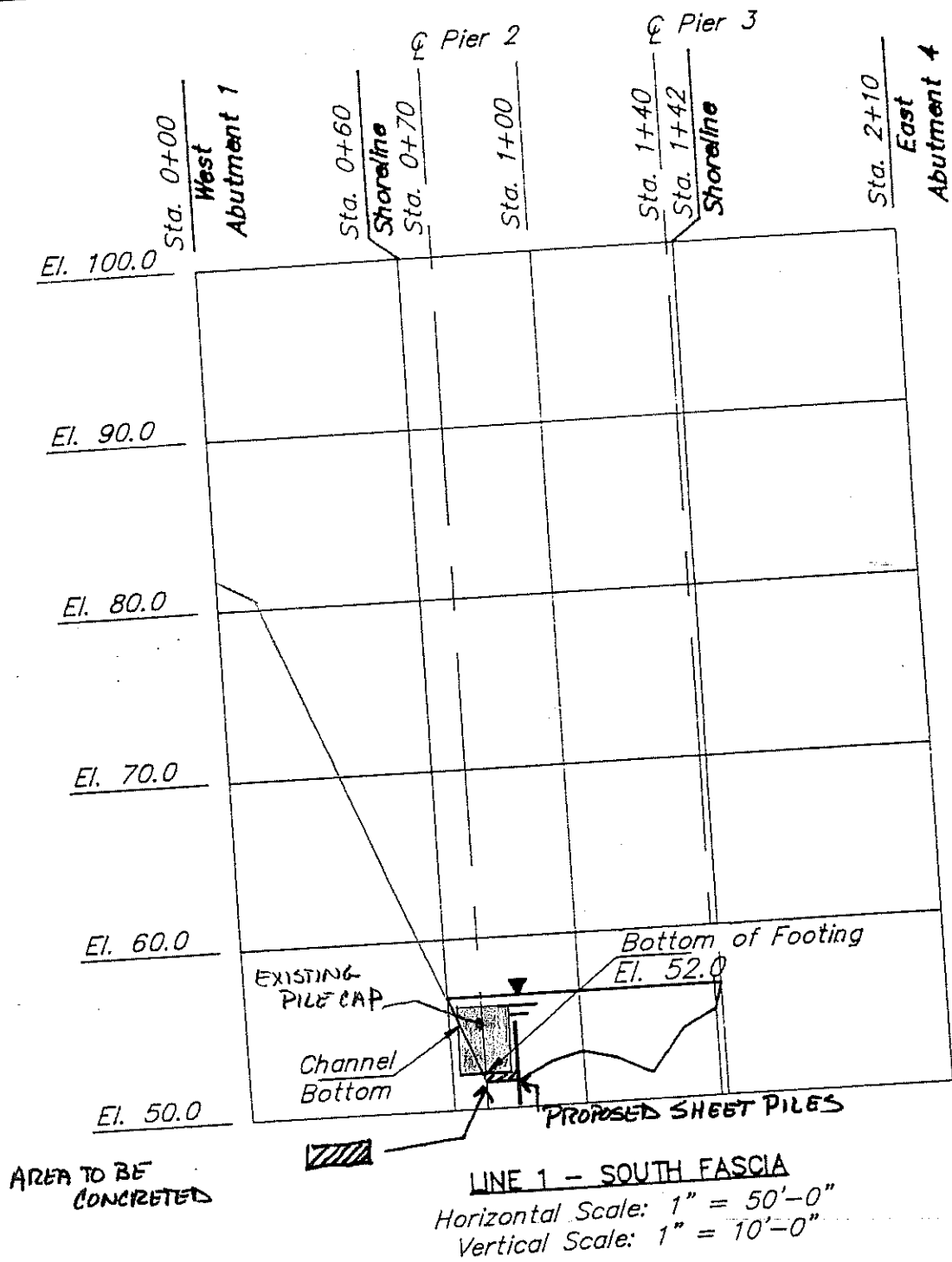


**TEMPORARY
SILTFENCE
TO CATCH AIR-LIFT
MATERIAL**

PLAN



COLLINS ENGINEERS, INC. 165 N. CANAL ST. CHICAGO, IL 60606	COLORADO DEPARTMENT OF HIGHWAYS UNDERWATER BRIDGE INSPECTION OFF-SYSTEM	
	STRUCTURE No.: GLNWD-27TH 27TH STREET OVER ROARING FORK RIVER GARFIELD COUNTY CHANNEL BOTTOM PROFILE	
	DRAWN BY: PAR	CHECKED BY: MJM
	DATE: DECEMBER, 1990	



GENERAL NOTES:

1. Elevations for channel bottom profiles are referenced to the top of the south fascia bear. This point was assigned an elevation of 100.0 ft.
2. The waterline, at the time of the inspection on 11/16/90, was located at Elevation 56.5 ft.
3. Refer to Figure 1 for plan of stationing grid.

