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Deleted

STATE OF KANSAS
DEPARTMENT OF TRANSPORTATION

472	76	245	912	89000	000	007
FHWA NO. 87 BRM 6150 (003)						

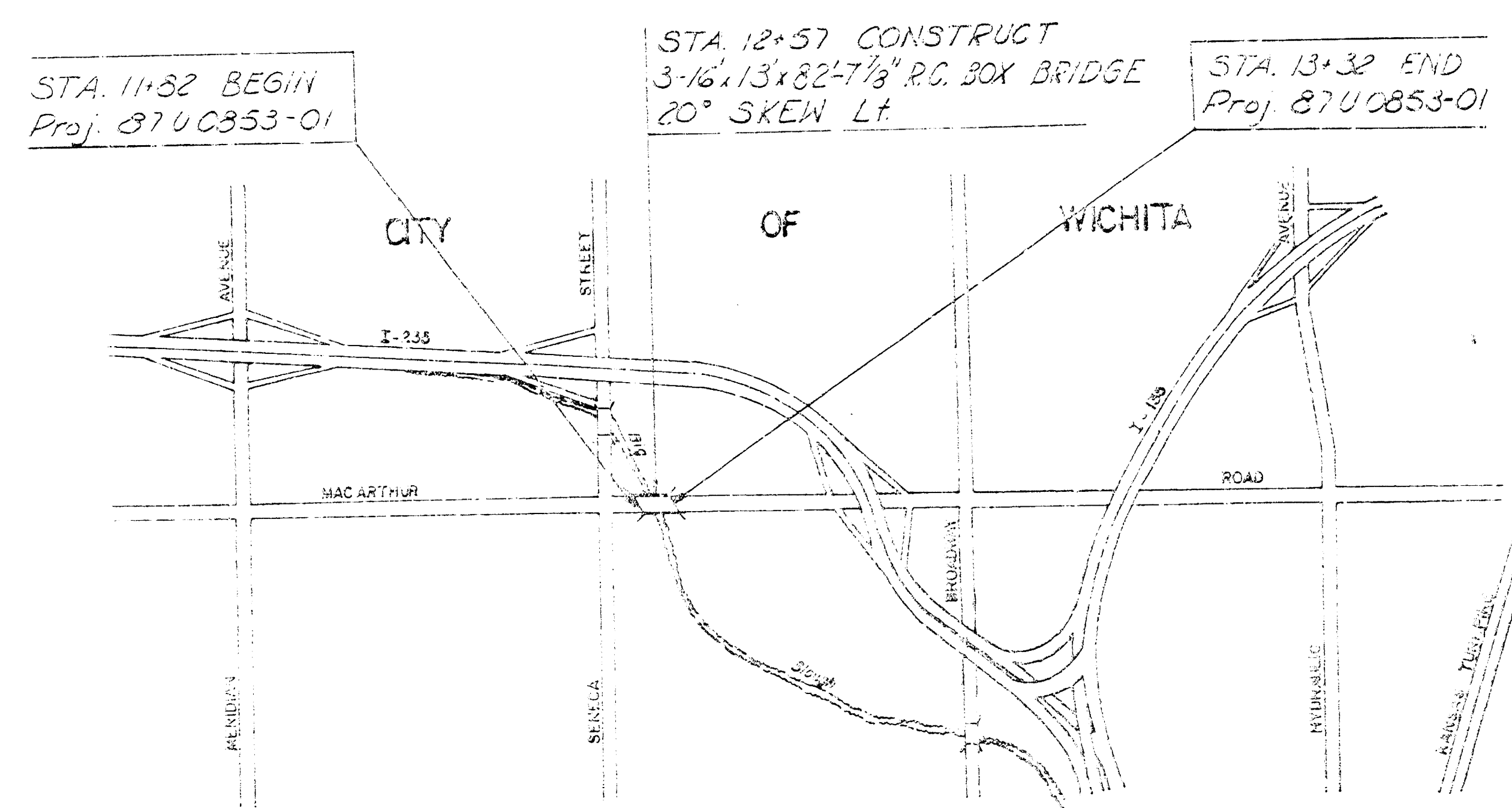
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

BRIDGE
GRADING

FEDERAL AID PROJECT
87U 0853-01
MACARTHUR ROAD BRIDGE
OVER
THE BIG CLOUGH

Completed - Construction Plans
87U 0853-01 Project No. 87U 0853-01
Prepared By Mike Lindesak Const. Engineer
Date 10-30-86

CITY OF WICHITA PROJECT
472 76 245 91289 000 000 001



MICROFILMED
YEAR 1988
ROLL NO. 644/92

DESIGN DESIGNATION
Traffic Count; 9,848 V.P.D., 1983
Traffic Count; 9,170 V.P.D., 2000
Design Speed 40 M.P.H.
Design Load HS-20-44

CONVENTIONAL SIGNS

COUNTY LINE	RETAINING WALL
CORPORATE LIMITS	CENTER LINE OF PROJECT
STATE OR NATIONAL LINE	LEVEE
TOWNSHIP LINE	CULVERTS
SECTION LINE	DROP INLETS
GRANT LINE	ACCESS CONTROL
FENCE LINE	POWER LINE
GUARD FENCE	TELEPHONE OR TELEGRAPH LINE
UNFENCED PROPERTY	MARSH
RIGHT OF WAY LINE	HEDGE
TRAVELLED WAY	TREES
RAILROADS	GRADE ELEVATION

GROSS LENGTH OF PROJECT 150.00 FT.
EXCEPTIONS 0.00

ADDITIONS 0.00

NET LENGTH OF PROJECT 150.00 FT. 0.028 MILES
NET LENGTH OF BRIDGES 54.62 FT. 0.010 MILES
NET LENGTH OF ROAD 95.38 FT. 0.018 MILES

NOTE:
The Contractor shall be responsible for preserving property irons. The Contractor shall be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor or a licensed professional engineer in accordance with state laws.

APPROVED BY - DATE <u>Mike Lindesak</u> 5-10-87 MIKE LINDESAK, P.E. CITY ENGINEER CITY OF WICHITA	DESIGNED BY - DATE A. S. DELAMATER & ASSOCIATES INC. CONSULTING ENGINEERS WICHITA, KANSAS <u>R. J. Delamater</u>
RECOMM. FOR APPROVAL DATE <u>Raymond E. Miller</u>	RECOMM. FOR APPROVAL DATE
CHIEF, BUREAU OF RURAL AND URBAN DEVELOPMENT KANSAS DEPARTMENT OF TRANSPORTATION	ENGINEER FEDERAL HIGHWAY ADMINISTRATION DEPARTMENT OF TRANSPORTATION
APPROVED - DATE <u>Raymond E. Miller</u> 5-10-87	APPROVED - DATE
STATE TRANSPORTATION ENGINEER KANSAS DEPARTMENT OF TRANSPORTATION	DIVISION ADMINISTRATOR FEDERAL HIGHWAY ADMINISTRATION DEPARTMENT OF TRANSPORTATION

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POT Sta 10+00 Iron Pipe @ E
41.32' NNW to 20d Nail in PP
121.08' NNE to 20d Nail in PP
59.14' SSW to 20d Nail in PP

P.O.T. Sta. 15+00 Iron Pipe @ E
41.71' NNE to 60d Nail in PP
122.27' NNW to 60d Nail in PP
54.00' SSE to 20d Nail in PP

FHWA REG NO	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	97-U-0853-01	1984	2	16
472 76 245 812 89000 000 007					

Public and private utility facilities shall be moved or adjusted as necessary by the owners to fit the new construction, unless otherwise noted on the Plans or in the proposal.

Publicly owned and maintained street signs will be removed by the Traffic Operations and Maintenance Division of the City of Chicago after installation of project construction signing. Such signs will be removed after the project is completed by the same Traffic Operations and Maintenance Division.

Incorporate rock excavation in compacted fill; chunks not over 0.5 cu ft.

The Contractor shall receive the existing structure's ownership of the bridge with four spans and 40 feet in length. It becomes the property of the Contractor and to be removed from the site. *Structure No. 430400001050000

See Sheet 3 for Lines of Construction.

See sheet 3 for limits of
common excavation and
compacted embankment

City Service Oil & Gas Co.
Storage & Truck Loading Facility

Sta. 12+51 Construct
3 - 16' x 13' x 82'-7" 12 C. Box Bridge.
20° Skew Lt. 13'-8" Roadway
See Sheets 6 & 7

Install 18'x74' CMP 26' LT.
with End Section into
Box See Note*
Remove 13'x60' CMP

City Service Oil & Gas Co.
Natural Gas Plant

*NOTE: Intst. it elevations on all pipes;
set 6" below existing ditch grade.

B.M. * 3 R.R. Spike in R.R. 37' Lt
Sta. 16+57 Elev. 89.8'

B.M. Datum.
C.O.C. City of Wichita B.M. *1 City Std. Disc. 86' North & 28.5' West
1187.4 M.S.L. of Section Corner Seneca & Mac Arthur Elev. 30.37 *
* Ref Proj 81U-0754 G1

SPECIAL CONSTRUCTION NOTE:
The location of all underground pipelines in the vicinity of the bridge are shown to the best knowledge of the City, from information furnished by the owner.

It is possible, however, that there are lines not located exactly as shown; or abandoned lines; or old lines not showing on anyone's records.

The contractor is therefore especially cautioned to satisfy himself, by contacting the owners, or by any other means available, to verify and establish the location and depth of all affected lines, and that they are moved clear of construction, before starting any channel or bridge excavation.

* 4760 Cu. Yds.
Common Excavation (-35%)
70 Cu. Yds. Rock Excavation

* includes 1340 Cu Yds. to be washed in new channel up to original flow line after bridge is completed.

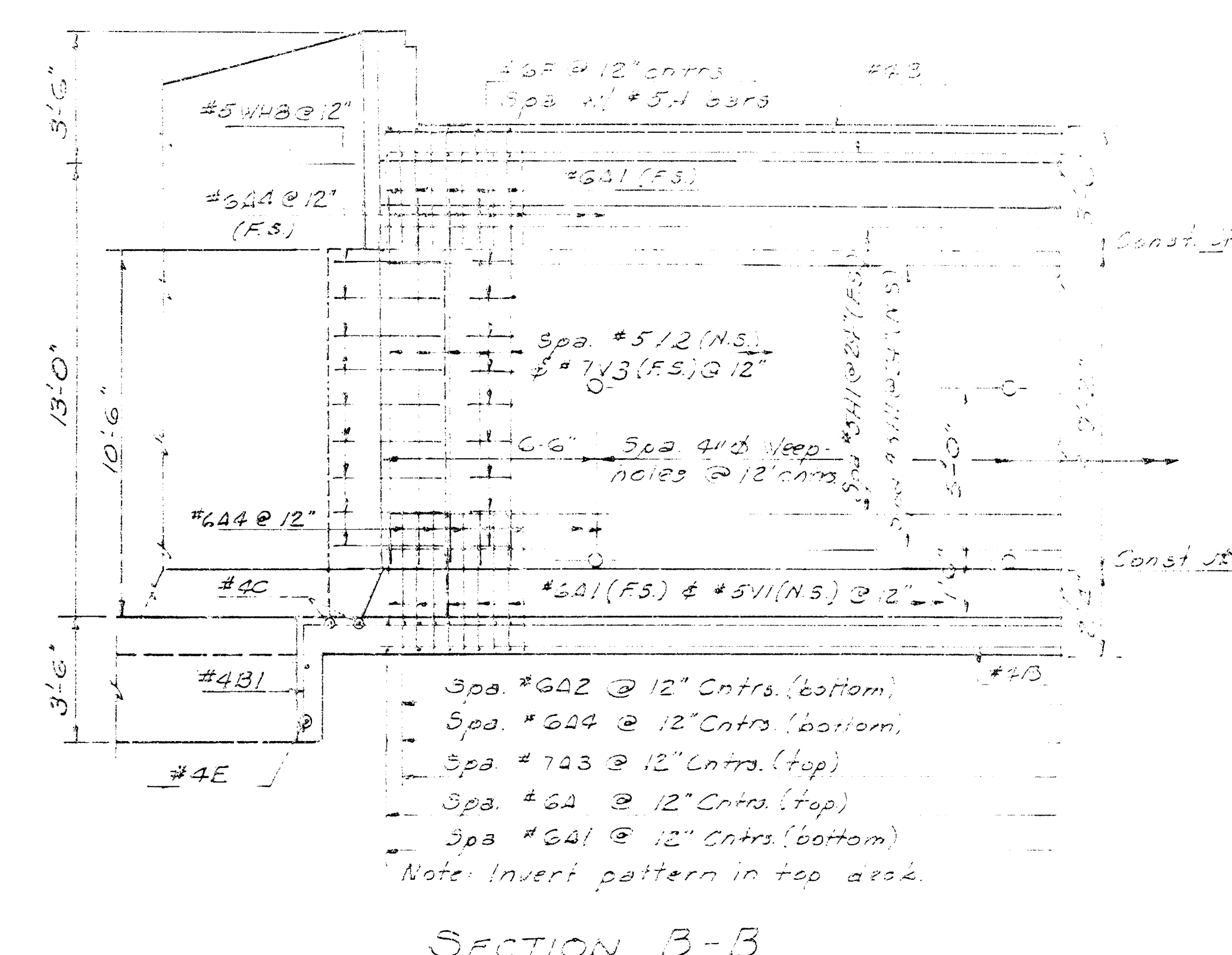
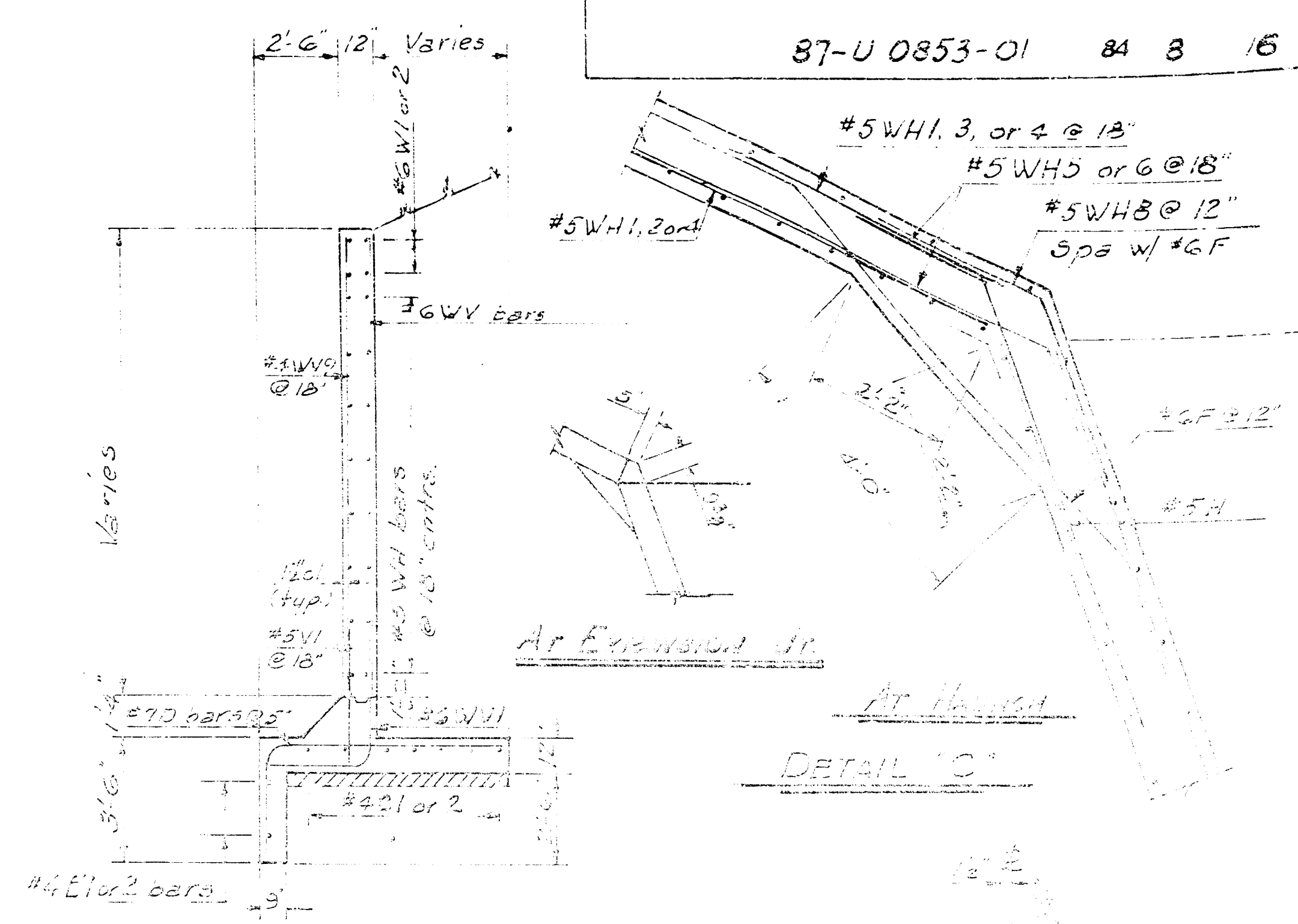
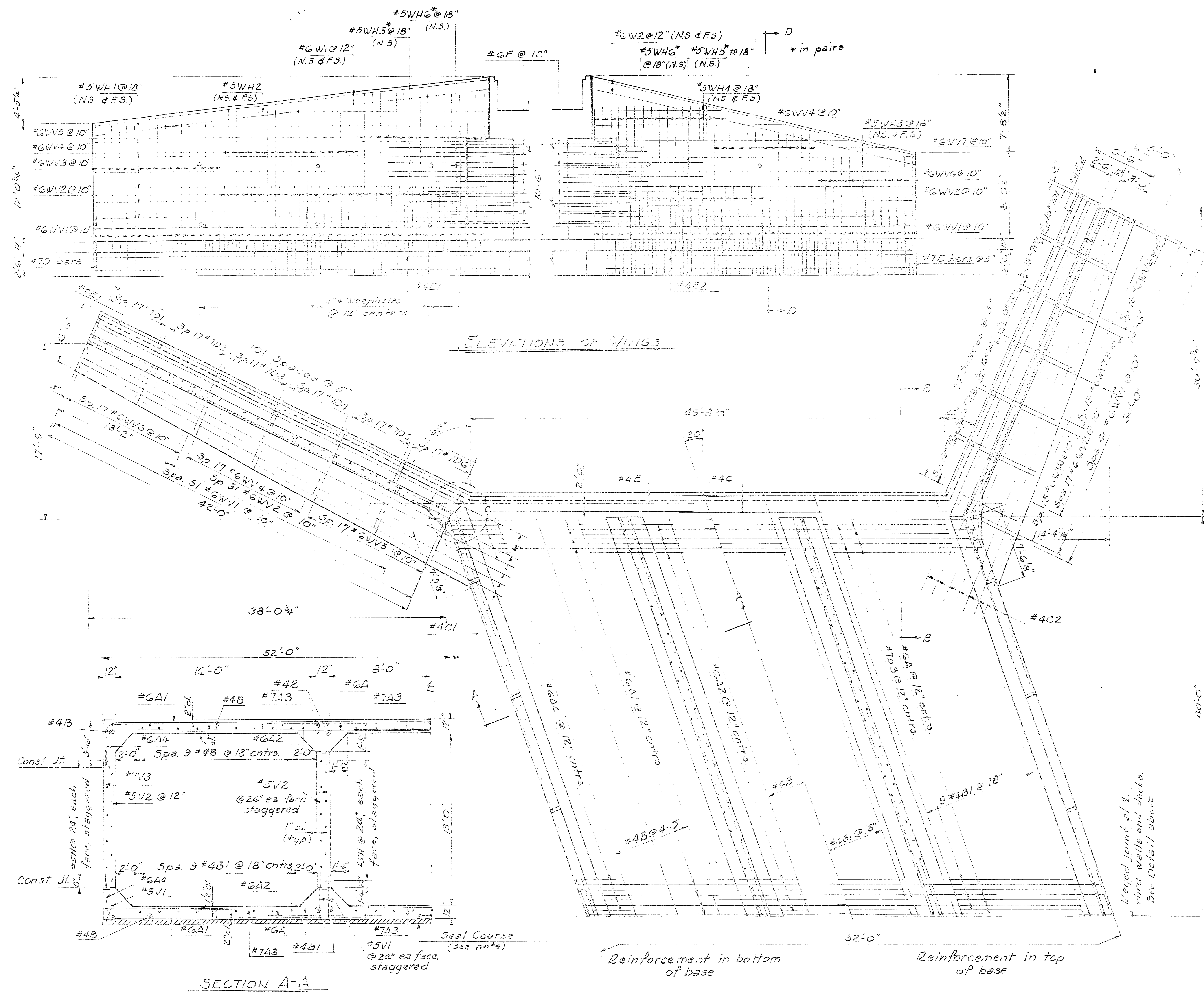
CHANNEL CHANGE PROFILE

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CITY OF WICHITA			
NORANTHUM ROAD BRIDGE OVER THE SAN GLOUARI			
PROJECT #1774-2-1-12-1000-00001			
CHANNEL EXCAVATION AND COMPACTED EMBANKMENT			
2. J. BELAMETER & ASSOCIATES INC. CONSULTING ENGINEERS WICHITA, KANSAS			
DATE	DES.	CHK.	APP.
05/12/83	MD	CPB	SR
		1012-A-3	51

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CITY OF WICHITA			
WASHINGTON ROAD BRIDGE			
OVER THE BIG SLOUGH			
PROJECT #7278-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-122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Straight Bars				Bent Bars			
Mark	Quan	Size	Length	Mark	Quan	Size	Length
A	172	6	55'-0"	A1	344	6	31'-10"
A2	336	6	10'-0"	A4	336	6	8'-6"
A3	504	7	13'-0"				
B	114	4	42'-3"	B1	62	4	47'-11"
C	8	4	34'-0"	D1	60	7	9'-3"
C1	14	4	50'-0"	D2	60	7	9'-7"
C2	14	4	42'-0"	D3	60	7	9'-11"
X	32	6	5'-0"	D4	60	7	10'-3"
E	8	4	26'-0"	D5	60	7	10'-7"
E2	12	5	23'-6"	D6	60	7	10'-11"
G	3	6	23'-0"				
H	30	5	42'-3"	E1	4	4	45'-5"
V1	446	5	3'-3"	E2	4	4	33'-10"
V2	344	5	12'-4"				
V3	172	7	11'-0"	F	36	6	10'-7"
W1	8	6	42'-0"	F1	112	5	8'-5"
W2	8	6	34'-6"				
WH1	23	5	41'-6"	WH3	43	5	13'-0"
WH2	4	5	27'-4"	WH6	40	5	8'-0"
WH3	20	5	33'-6"	WH8	26	5	6'-0"
WH4	12	5	*				
WV3	34	6	10'-6"	WV1	134	6	3'-2"
WV4	64	6	12'-0"	WV2	36	6	10'-6"
WV5	34	6	13'-6"				
WV6	26	6	7'-0"				
WV7	26	6	9'-7"				
WV8	36	4	*				
WV9	36	4	*				

GENERAL NOTES:

LOADING: H-20-44 AASHTO Specifications, (1977 Ed.)
 & Interims

UNIT STRESSES: $f_c' = 4,000 \text{ p.s.i.}$ (Class AAA)
 $f_c = 1,600 \text{ p.s.i.}$
 $f_s = 24,000 \text{ p.s.i.}$ (Zemp Gr 60)

Class AAA Concrete shall be used throughout. Bevel all exposed corners with a 34" triangular moulding unless otherwise noted.

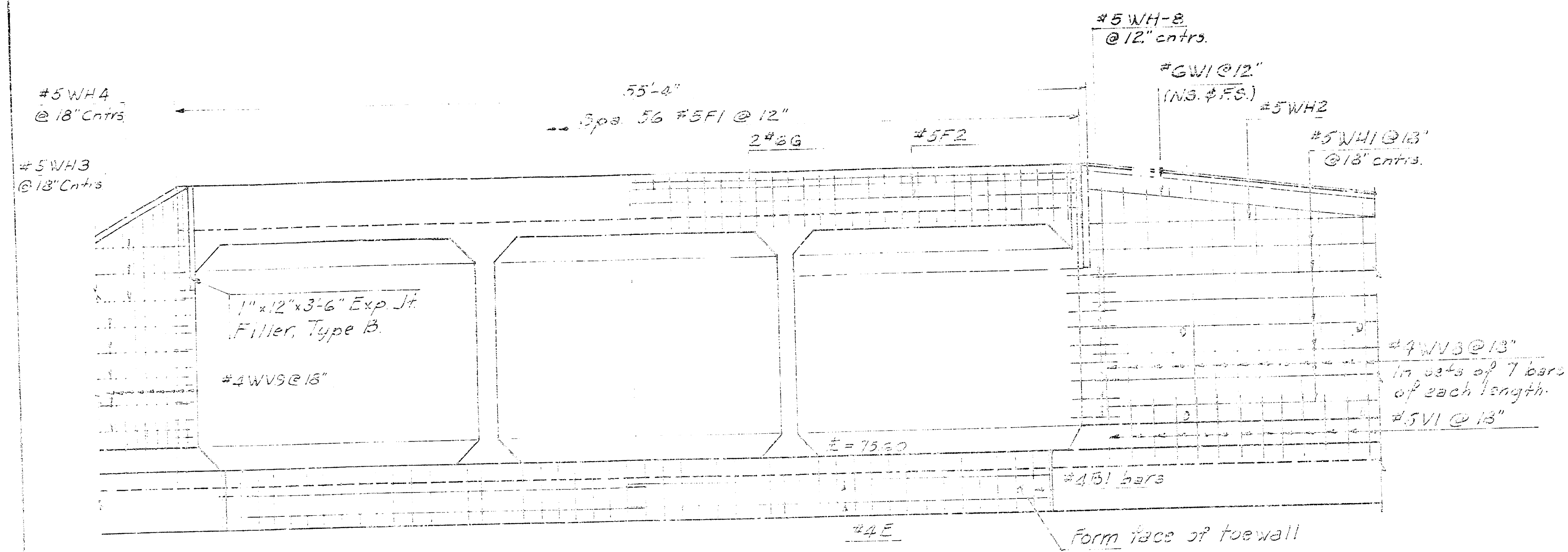
All reinforcing steel shall be Grade 60. All dimensions relative to placement of reinforcing steel are to centerline of bar unless otherwise noted. All dimensions on the bending diagrams are out to out of bars.

Seal course consisting of 3" of Class A Concrete shall be constructed only when demanded by the Engineer. No reinforcing steel shall be placed until the seal course has gained sufficient strength to permit working upon it without injury.

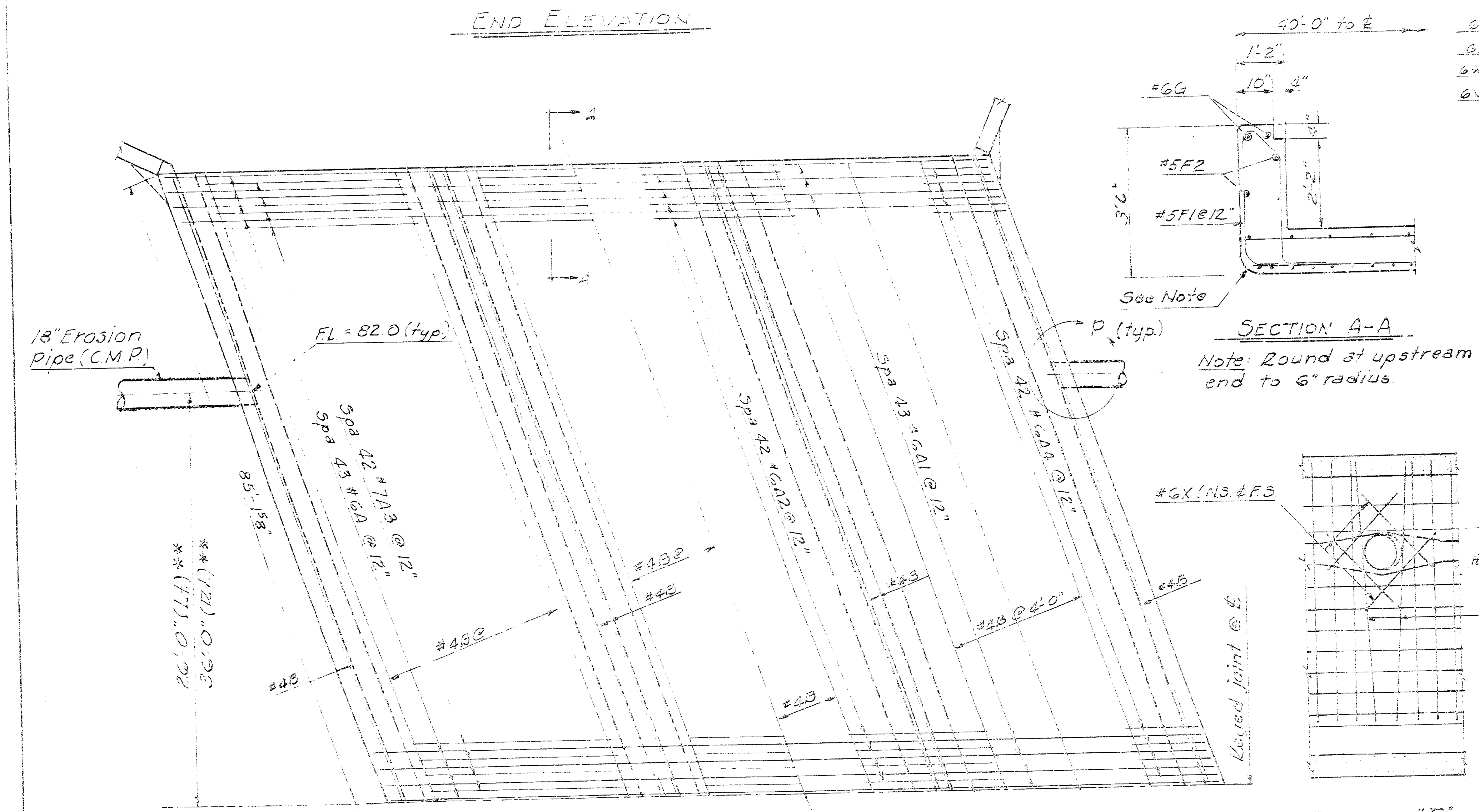
Payment for additional quantities resulting from including seal course as a change in contract items shall be made at the unit price bid for Class AAA Concrete.

The structure shall be constructed in two equal sections with a construction joint as detailed through the base, walls and deck.

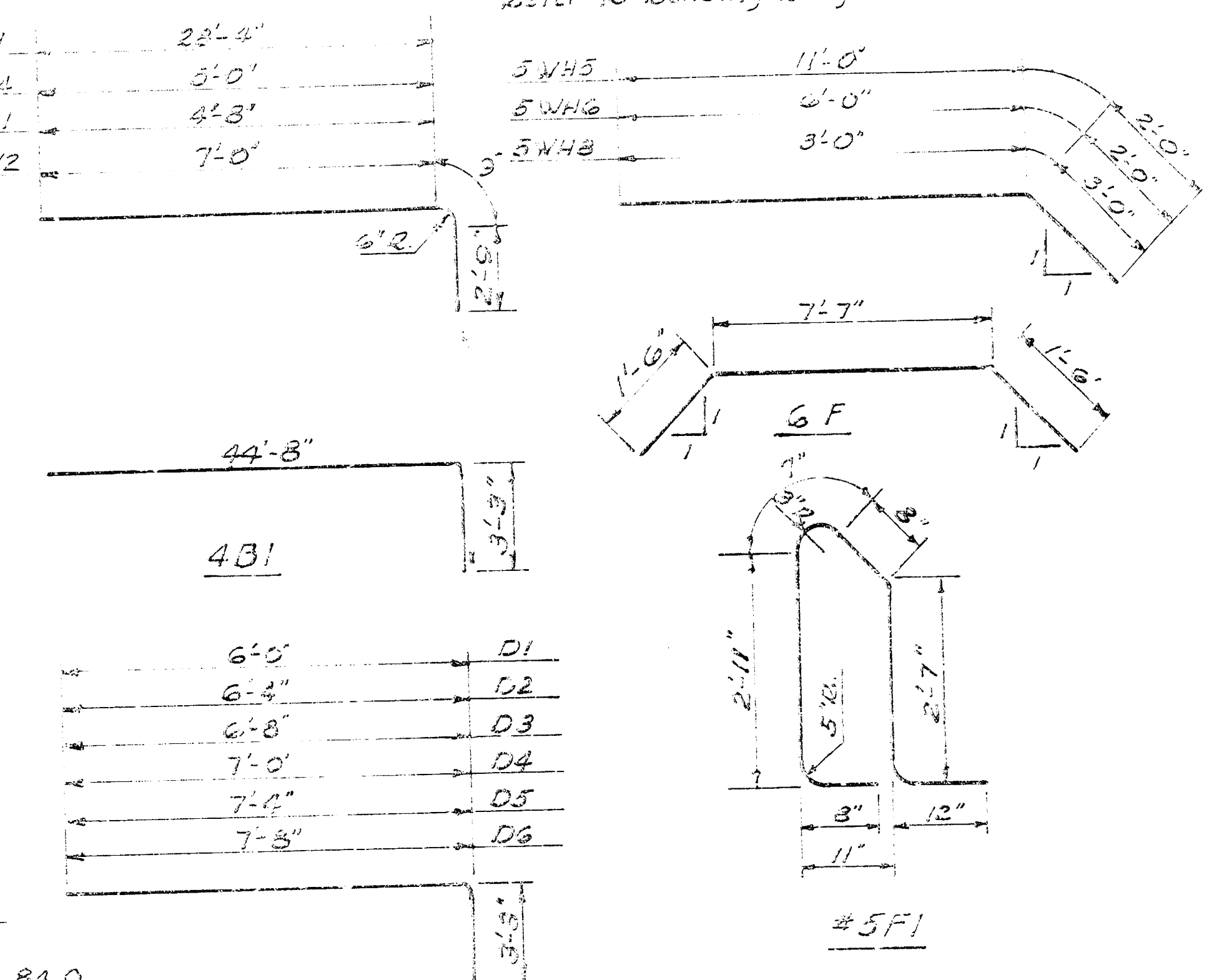
Aggregate shall be deposited in a continuous band behind each row of reinforcement, encased in a wrap of approved filter cloth, as shown on the plans. This work and material shall be paid for under the bid item of Granular Base 24".



END ELEVATION



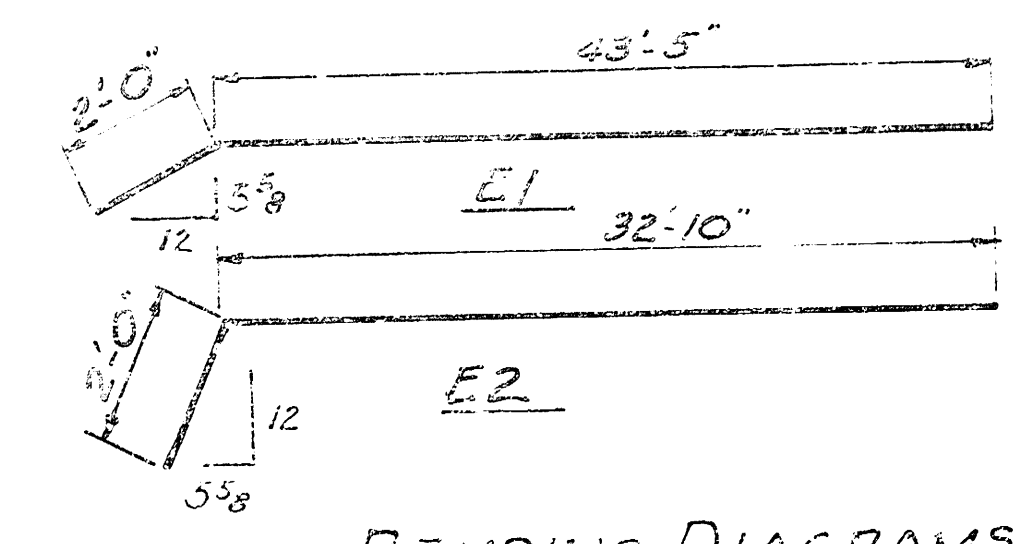
SECTION A-A
Note: Round at upstream
end to 6" radius.



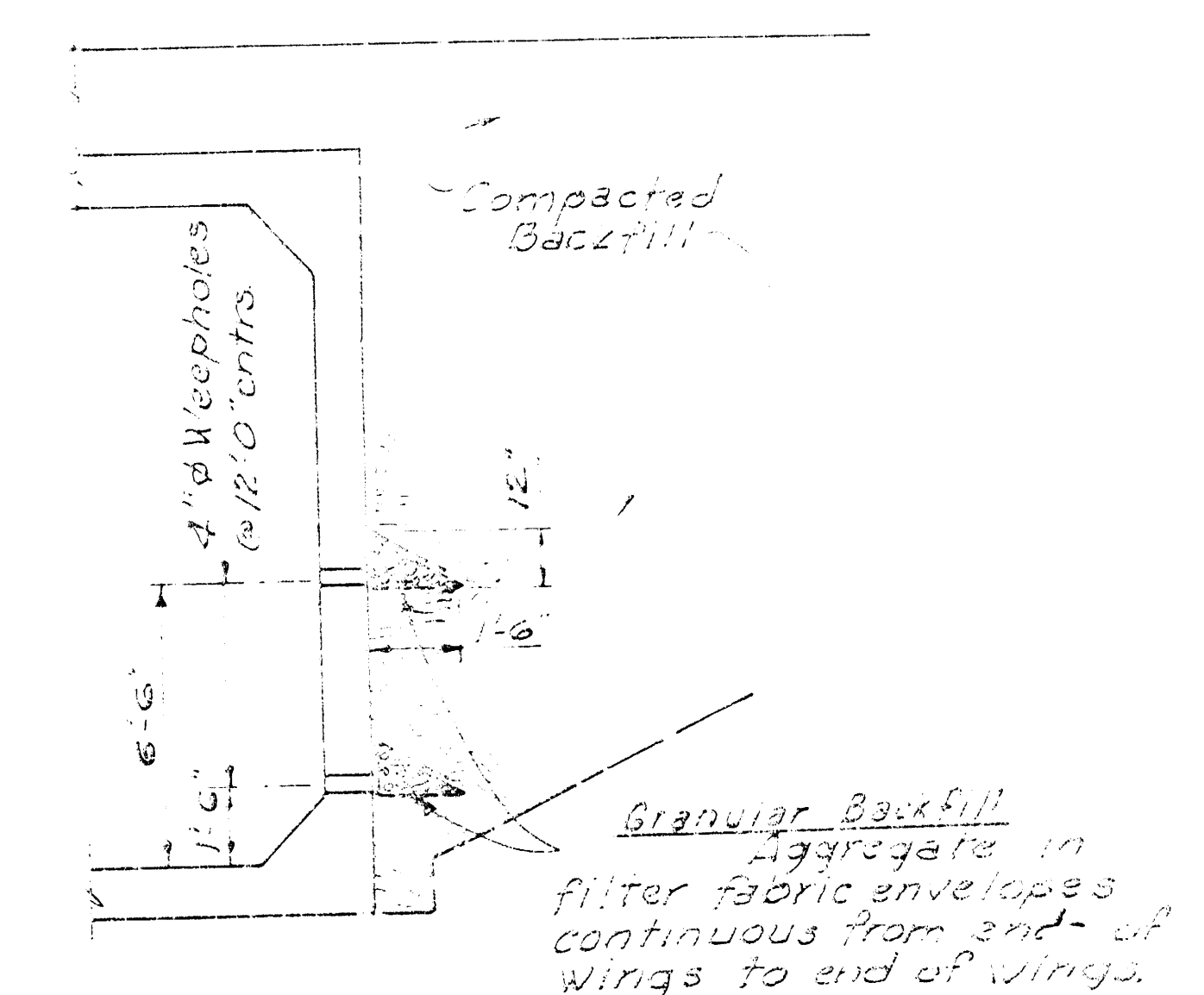
Inc. from 13'-6" to 26'-6" by 6'-5" inc. 5 WH 4
Cut 4 each length

Inc. from 10'-6" to 14'-5 1/4" by 1'-2" 4 WH 3
Cut 2 each length

Inc. from 7'-3" to 14'-7" x 4" inc. 4 WH 9
Cut 2 each length



BENDING DIAGRAMS



**** Or as directed by
the Engineer**

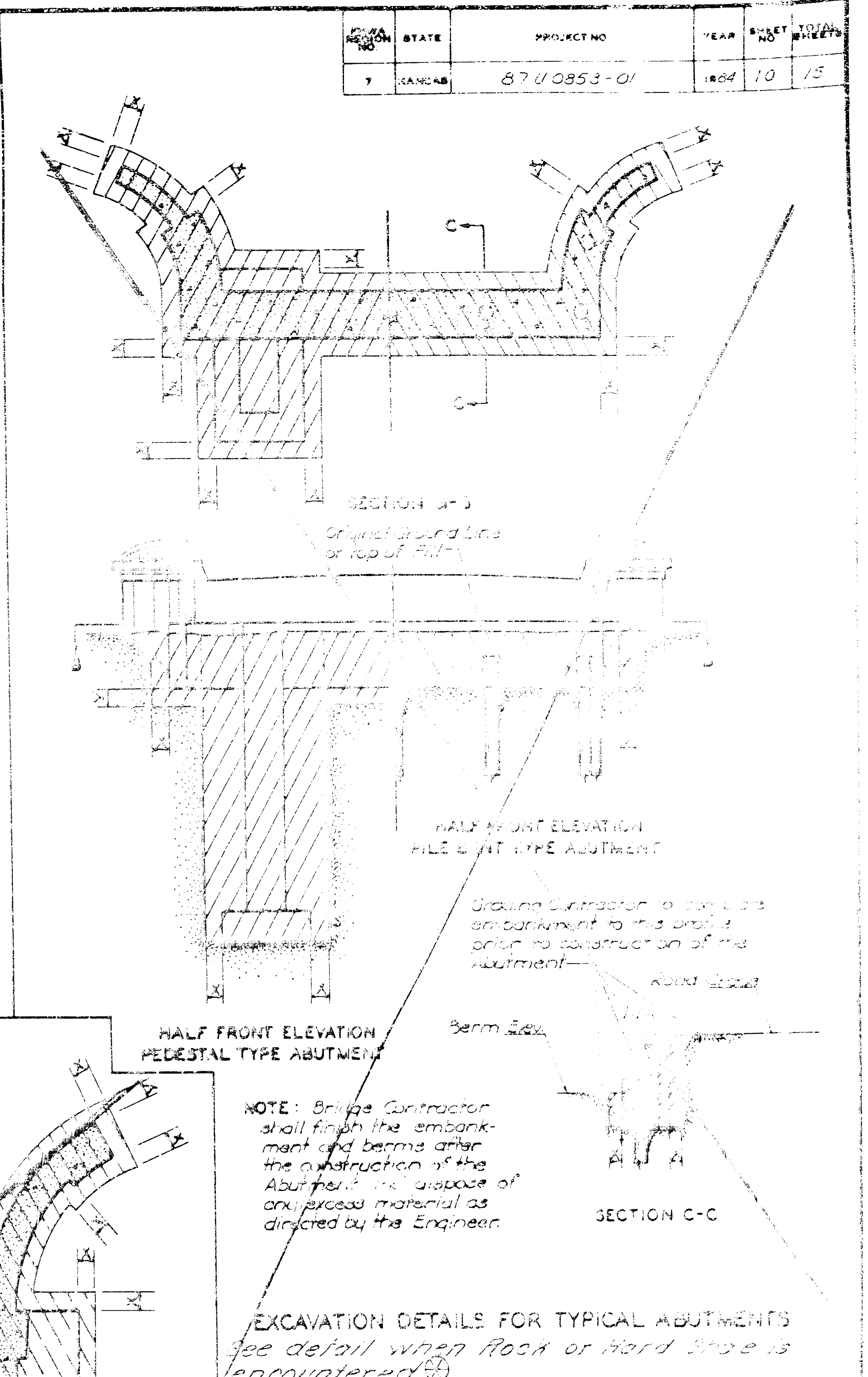
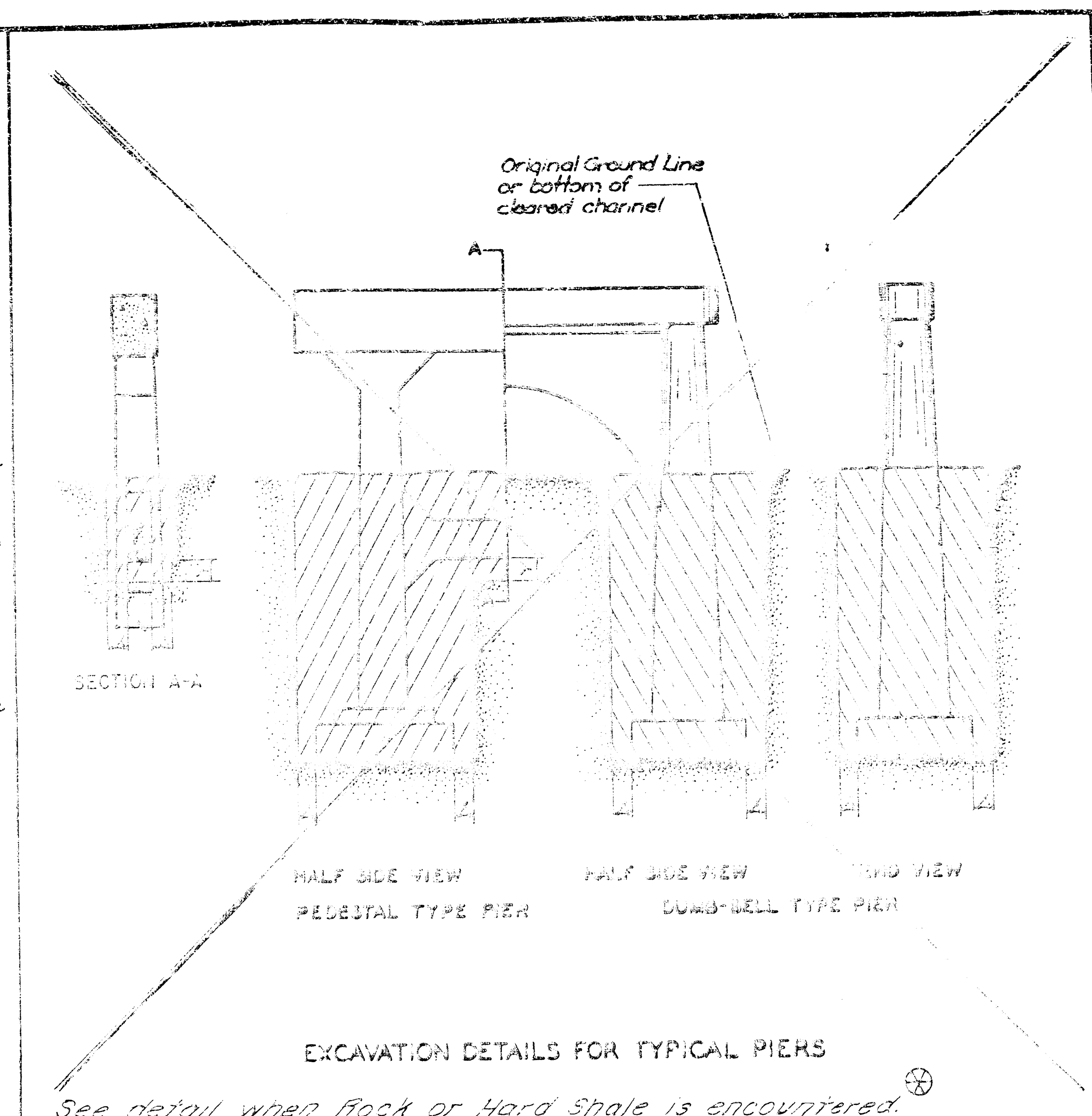
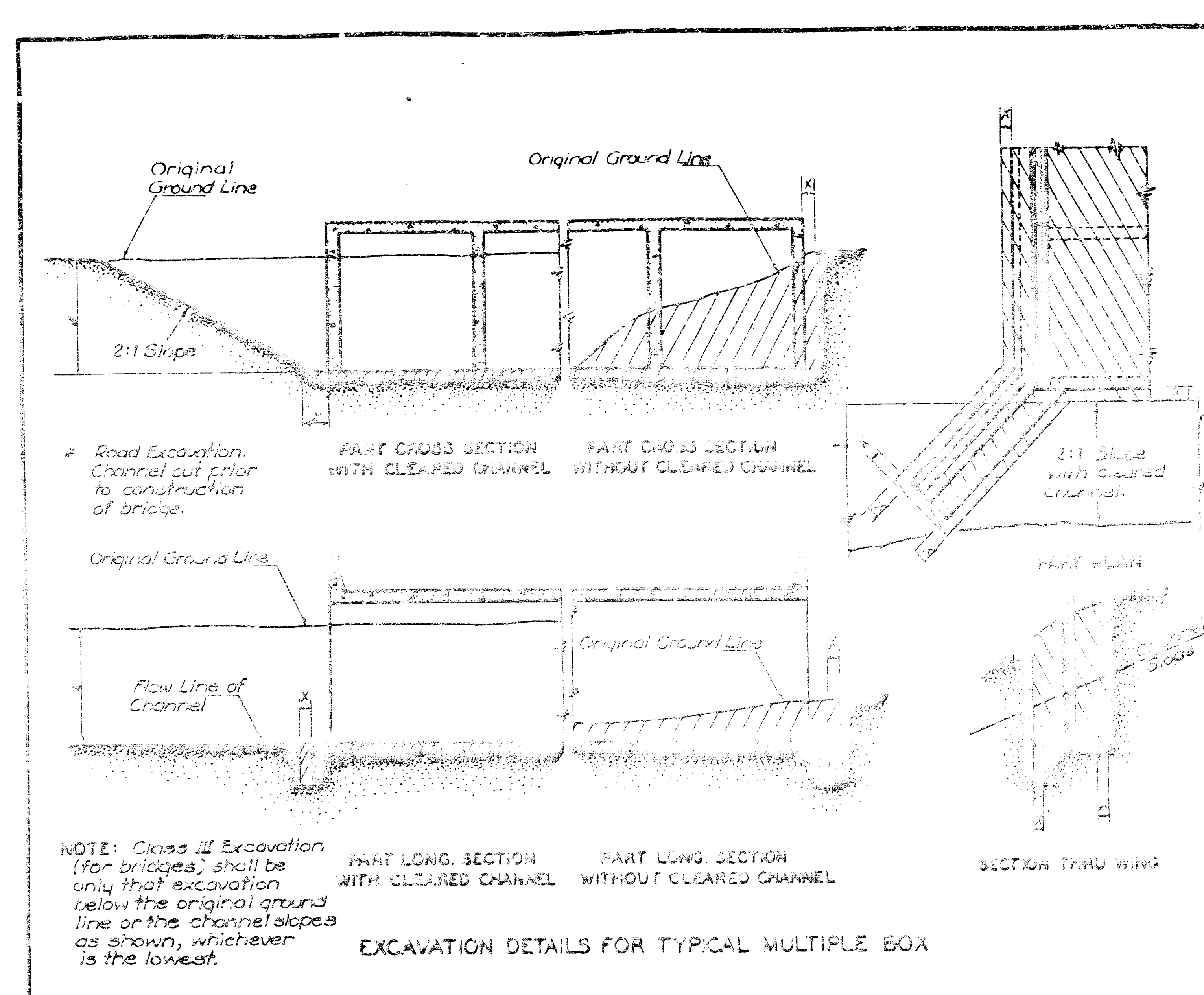
Reinforcement in Bottom

Reinforcement in Top

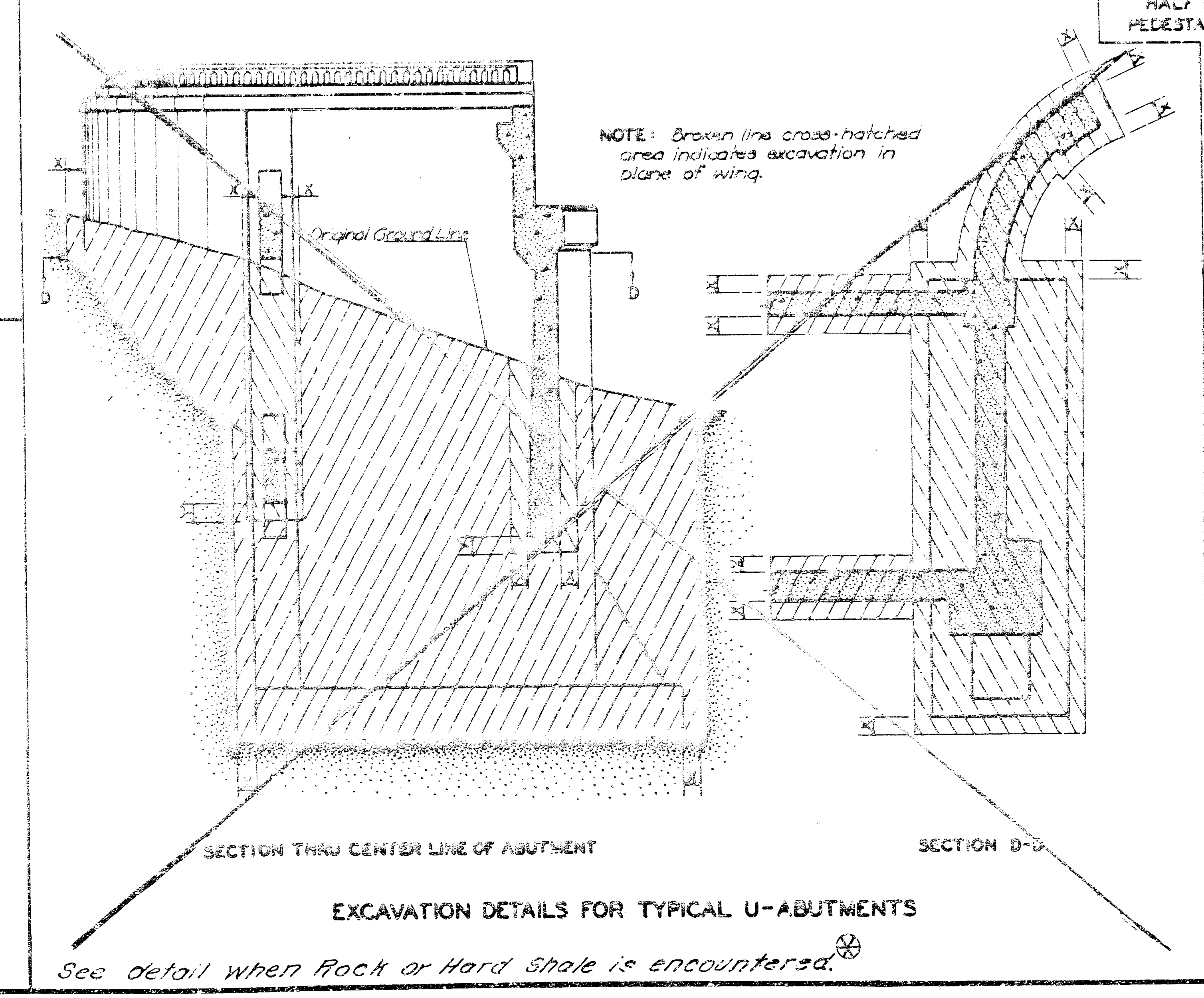
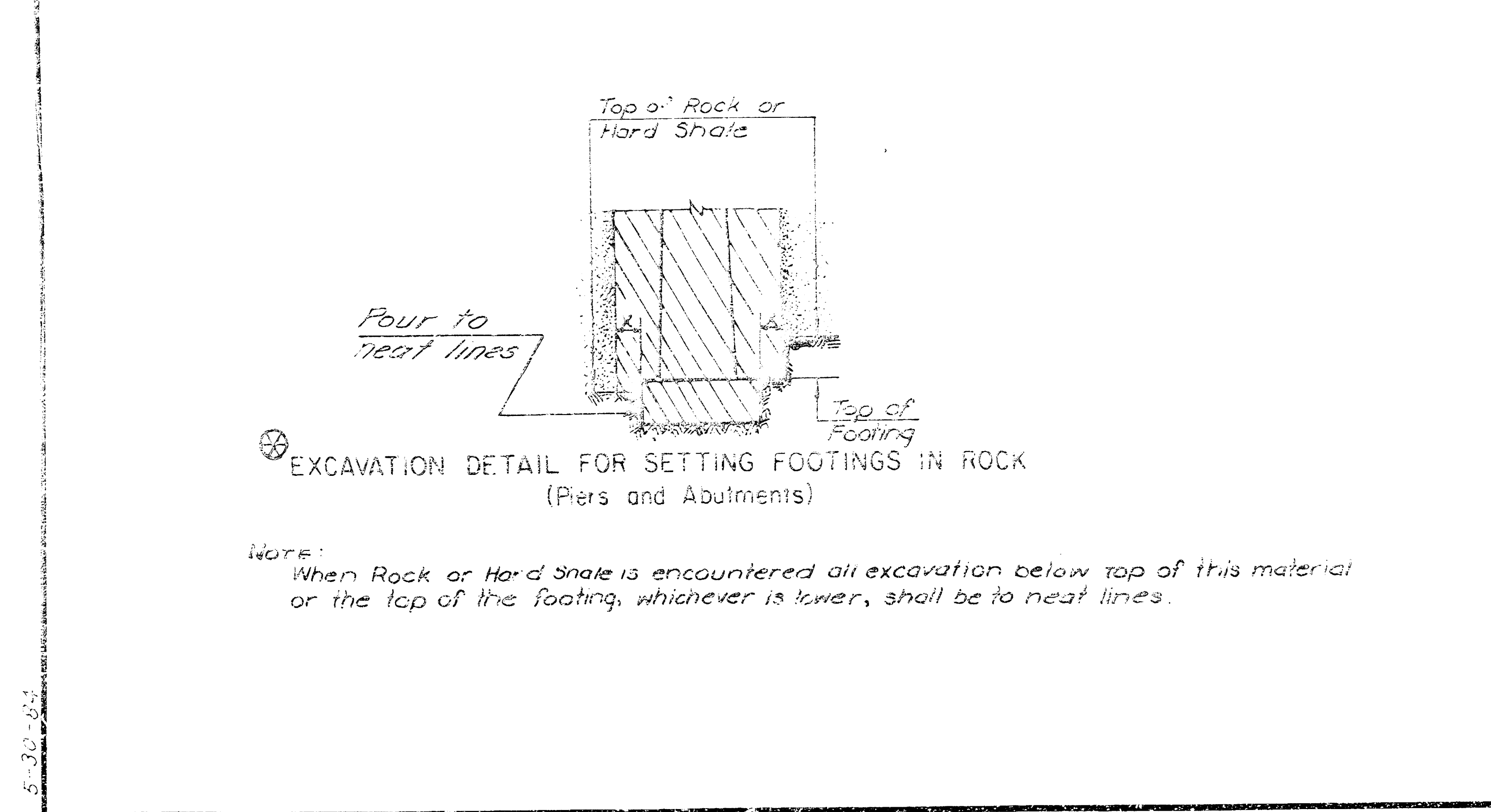
HALF PLAN OF DECK

DETAIL "P"

CITY OF WICHITA				
DEPARTMENT ROAD DIVISION				
OFFICE THE BIG BRIDGE				
PROJECT W878249 112' OVER SPAN				
TRIPLE 16 X 15 A32-7 W8" ACBD				
BRIDGE DETAILS II				
J. J. FELLMEYER & ASSOCIATES INC.				
CONSULTING ENGINEERS				
WICHITA, KANSAS				
DES.	CPS	DR.	CPS	CRD.
DATE	MAY, 1982	DRS. BY	DRS. BY	DRS. BY
				102-A-7



Sides of trenches in hard or compacted soil including embankments shall be shored, sheeted, braced or otherwise supported when the trench is more than 5 feet in depth and 6 feet or more in length. In lieu of the shoring, the sides of the trench above the 5 foot level may be sloped to preclude collapse. The slope for average soils shall be 1:1. If the angle of repose of the soil is less, flatter slopes shall be required.



NOTE: Bridge Contractor shall finish the embankment and berms prior to construction of the abutment. The shape of any excess material as directed by the Engineer.

EXCAVATION DETAILS FOR TYPICAL ABUTMENTS

See detail when Rock or Hard Shale is encountered.

NOTE: All bridge excavation shall be computed on the basis of the cross-hatched areas and boundary lines indicated on this sheet. Dimension "X" shall be 2'-0" unless indicated otherwise on the general plans. Dimension "Y" shall be 1'-6" unless indicated otherwise on the general plans.

NO.	DATE	REVISION	BY	CHKD.
1	10/15/83	Revised Detail of Rock Excavation		
2	7/31/83	Revised Limits Rock Excavation		
3	10/17/84	Revised "X" Dimension		

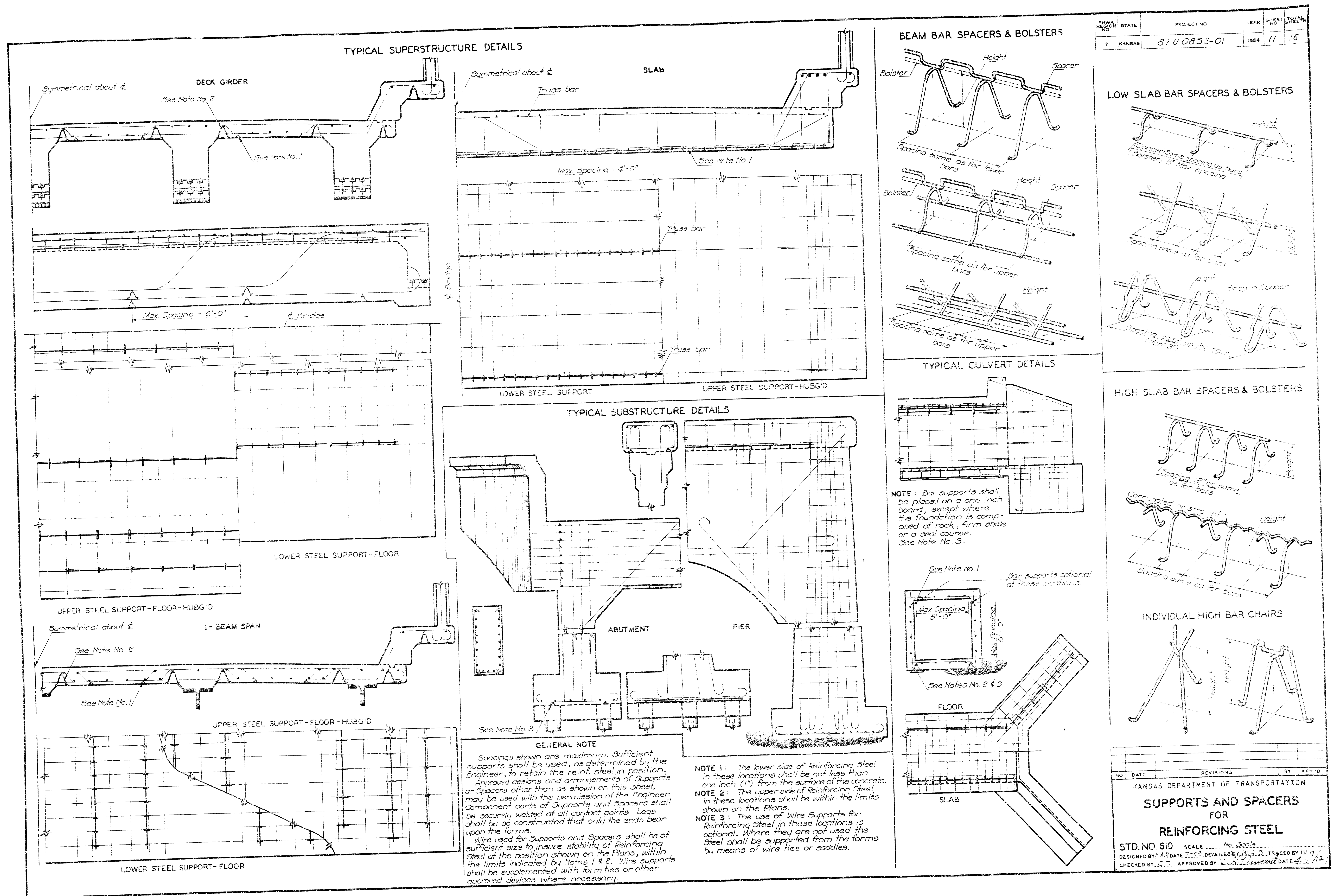
KANSAS DEPARTMENT OF TRANSPORTATION

BRIDGE EXCAVATION

STD. NO. 100-1 SCALE: 1" = 1' (For Section Details)

DESIGNED BY: A.R. DATE: 6-10-80, DETAIL BY: W.A.B., TRACED BY: W.A.B., CHECKED BY: S.I., APPROVED BY: J.H. MURPHY, DATE: 4/1/81

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FLOW NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 U 0853-01	1984	11	16

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
SUPPORTS AND SPACERS FOR REINFORCING STEEL				
STD. NO. 610 SCALE No. 8/32				
DESIGNED BY DATE 7-83, CHECKED BY 11/9/83, TRACED BY 11/9/83				
CHECKED BY 11/9/83, APPROVED BY 11/9/83, DATE 4-26/84				

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FHWA REG. NO.	State	Project No	Fiscal Year	Sheet No.	Total Sheets
7	Kansas	87UC85301	1984	13	16

[illegible]

DRAINAGE STRUCTURES						
Station	Side	Size	Type	Conc. Ct. "A" Cu. Yds.	Reinf. Steel Lbs.	Erosion Pipe End Section
11+41	Lt	18"	Erosion		80	1
11+73	Rt	18"	Erosion		70	1
12+74	Lt	18"	Erosion		74	1
12+97	Rt	18"	Erosion		70	1
Totals				—	294	4 ss.

RECAPITULATION OF BRIDGE QUANTITIES		
	Bridge No. Station	12+57
Item	Unit	
Class I Excavation	Cu Yds	
Class II Excavation	Cu Yds	
Class III Excavation	Cu Yds	700
Water	M Gals	
Class AAA Concrete	Cu Yds	699.5
Class A Concrete	Cu Yds	
Reinforcing Steel	Lbs	95,480
Structural Steel	Lbs	
Sealing Devices	Lbs	
Cast Iron	Lbs	
Untreated Timber Piles	Lin. Ft.	
Treated Timber Piles	Lin. Ft.	
Steel Piles	Lin. Ft.	
Untr. Timber Test Piles	Lin. Ft.	
Steel Test Piles	Lin. Ft.	
Metal Pile Points	Each	
Foundation Stabilization	Cu. Yds	1
Removal of Exist. Struct.	L. S.	

RECAPITULATION OF ROAD QUANTITIES	
Clearing and Grubbing	L.S. Lump Sum
Removal of Existing Structure	L.S. Lump Sum
Common Excavation	4160 Cu. Yds.
Rock Excavation (Pavement Removal)	70 Cu. Yds.
Compaction of Earthwork (Type B) (MP-20)	2,700 Cu. Yds.
Granular Backfill	18 Cu. Yds.
Water	1 M. Gals.
Plant mix Bituminous Mix (Comm. Grade)	140 Tons
18" Erosion Pipe (CMP)	293 Lin. ft.
18" End Sections (CMP)	4 Each
Temporary Surfacing Material	1 Cu. Yd.
Field Office and Laboratory (Type C)	1 Each
Contractor Construction Staking	L.S. Lump Sum
Mobilization	L.S. Lump Sum

[illegible][illegible]

Water Pollution Control. See Sheet No. 12
Traffic Control, See Sheet 14

KANSAS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

REV. 1-10-75

STD. NO. 550.2

DETAILED & TRACED *W26* APPROVED *John [Signature]* DATE *2/2/76*

PRIMARIES TRULATED CMRD. INDEXED

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RECAPITULATION OF QUANTITIES					
Bid Item	Grading	Contract	Bridge	Contract	County - each Pay Item
	Quantity	Unit	Quantity	Unit	Quantity Unit
Construction Signs (0-9 25 Sq Ft.)		Each / Day		Each/Day	
Construction Signs (9-25-1675 Sq Ft.)		"		"	
Construction Signs (16-26 Sq Ft and Over)		"		"	
Construction Barricades (Type I or II)		"		"	
Construction Barricades (Type III)		"		"	
Construction Warning Lights (Type B - High Intensity)		"		"	
Vertical Panels (Single Type)		"		"	
Vertical Panels (Back to Back Type)		"		"	
Traffic Control		Lump		Sum	



1. The entire area of orange and white shall be reflectorized with reflective sheeting or other reflective processes as approved by the Engineer.

GENERAL NOTES

All Traffic Control Devices and installation or use thereof shall conform with MUTCD

Barricades are to be set at locations shown on the Traffic Control Plan sheet at a volume set by the project. Sufficient barricades shall be selected to adequately cover the roadway width that may be disrupted to provide access for local traffic. The barricades may be linked by equipment shown, may be mounted on approved skids anchored by wire or sandbags or may be mounted on saw filled drums strapped with MUTCD formance with MUTCD.

The unit bid price for traffic control devices shall be full payment for providing, installing, moving, replacing, maintaining, removing and cleaning all traffic control devices as required or as directed by the Engineer.

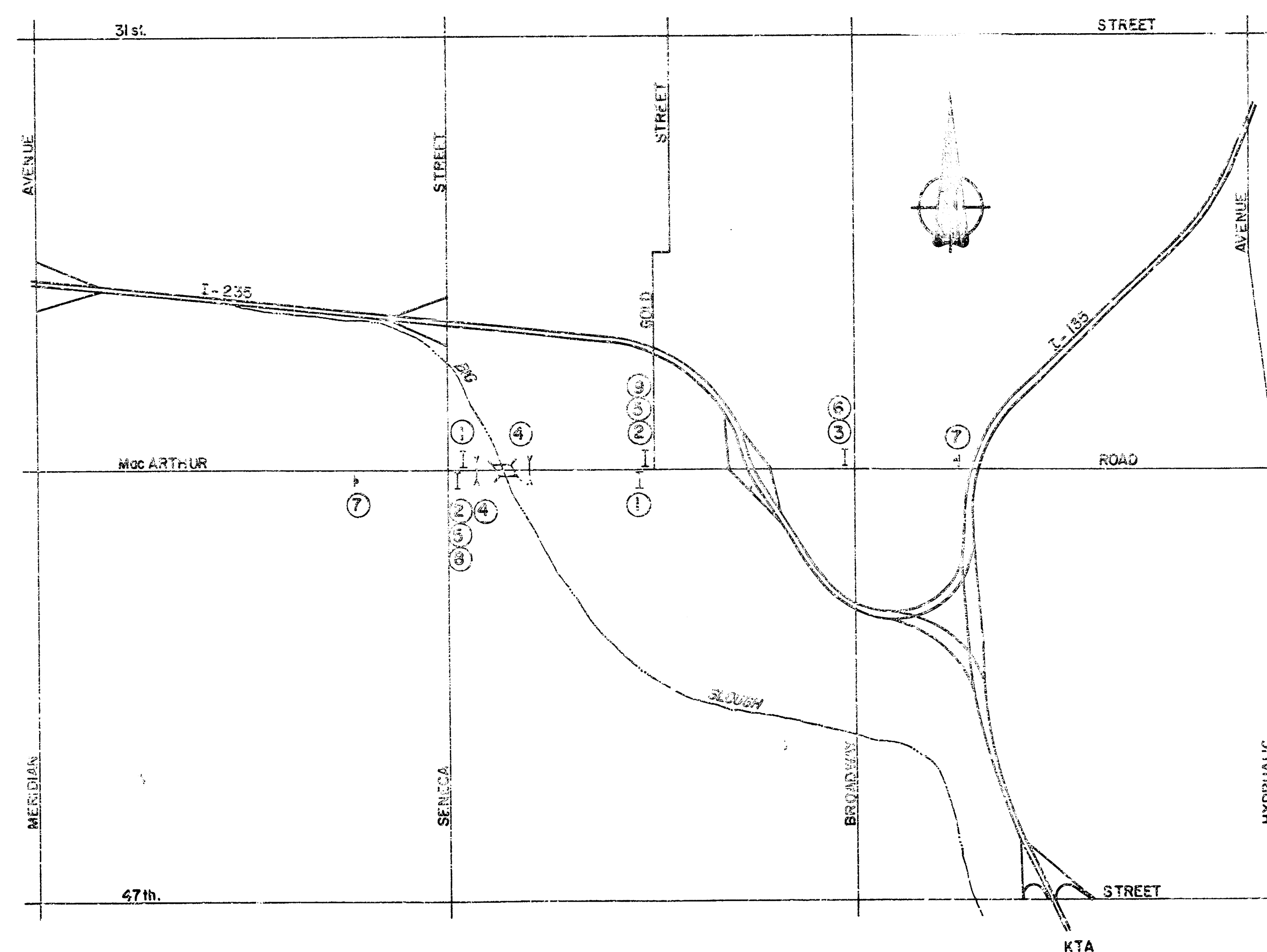
~~Regardless of number of years any additional supplement by the claimant will be charged at the same price as the 100% rate for the first year.~~

Yellow Construction Warning Lights are ~~not~~ required on all barricades and signs.

Uniformed flagger, when used, will be subject to the other rules that apply.

The County shall have the right to terminate this contract if the Contractor fails to perform the work in accordance with the terms of this contract.

All signs shall be mounted on 4"x4" wood posts, other than those attached to Type II Barricades.



2	12-22-81	Ref to Flashing Gate Revised	WLS ADP
	5-1-82	Tr. cor. re Process note added	WLS ADP
NO	DATE	REVISIONS	BY APP
KANSAS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL PLAN			
ST'D. NO. 760.1S			
ENGINE AWM DESIGNER CHECKED BY AWM DATE 12-22-81			

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