

PROPOSED HIGHWAY PLANS

FAP ROUTE 687 (IL 95)
SECTION (123B)I-1

CONTRACT MAINTENANCE
FULTON COUNTY

C-94-097-15

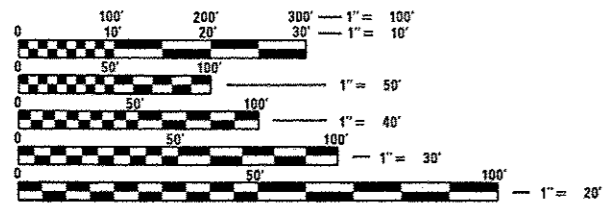
INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES AND PROJECT SPECIFIC NOTES
3. SUMMARY OF QUANTITIES
4. SCHEDULE OF QUANTITIES
5. GENERAL PLAN & ELEVATION (S.N. 029-0025)
- 6-13. STRUCTURAL REPAIR OF CONCRETE DETAILS

HIGHWAY STANDARDS

- 701001-02
- 701006-05
- 701201-04
- 701301-04
- 701901-04

IMPROVEMENT BEGINS STA. 470 + 93.43
IMPROVEMENT ENDS STA. 476 + 04.00

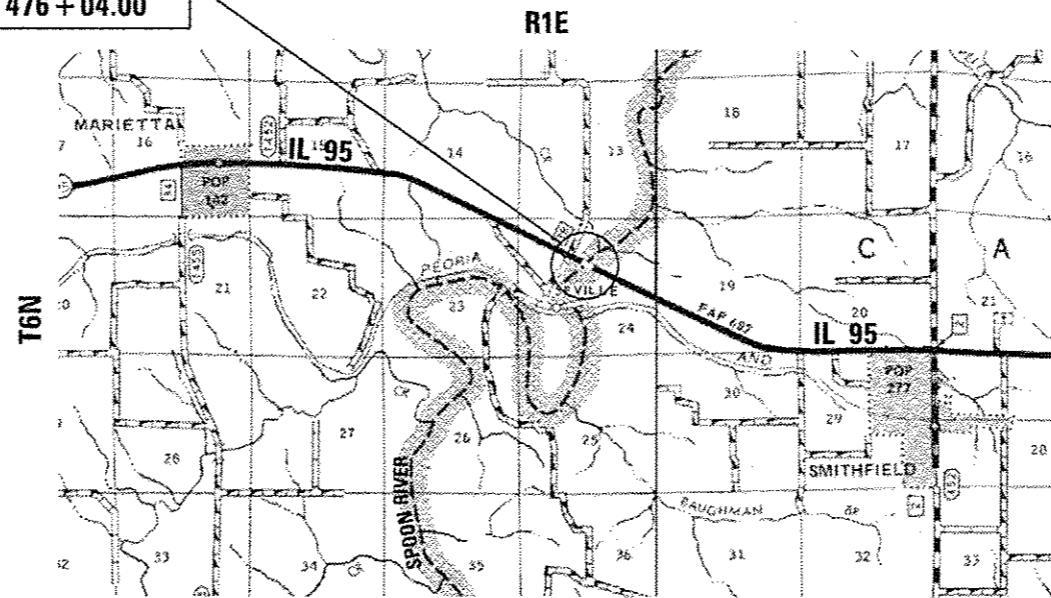


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: RICHARD DOTSON (309-671-3455)
PROJECT MANAGER: JOSH JOCHUMS/KEVIN HORST (309-671-3472)
CATALOG NO. 035311-00D
CONTRACT NO. 68C75

GROSS LENGTH = 510.57 FT. = 0.0967 MILE
NET LENGTH = 510.57 FT. = 0.0967 MILE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
687	(123B)I-1	FULTON	13	1
ILLINOIS			CONTRACT NO. 68C75	

D-94-057-15



SUBSTRUCTURE REPAIR TO STRUCTURE CARRYING IL 95
OVER THE SPOON RIVER (SN 029-0025), 2 MILES WEST
OF SMITHFIELD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 15 20 15
Kunal A. Barnette
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 29 20 16
Maureen M. Addis PE
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29 20 16
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made. There are no commitments for this project.

PROPERTY OWNER ACCESS REQUIREMENT

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

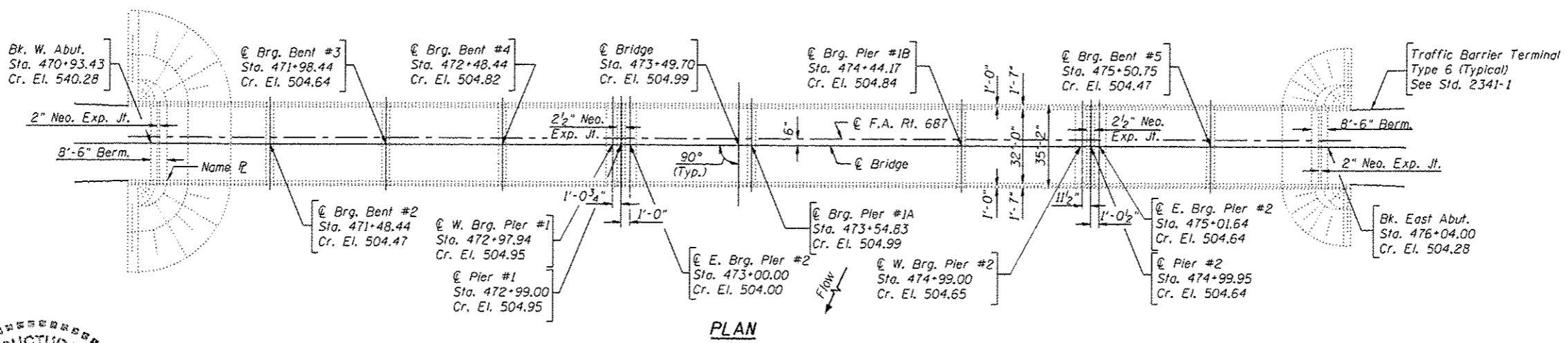
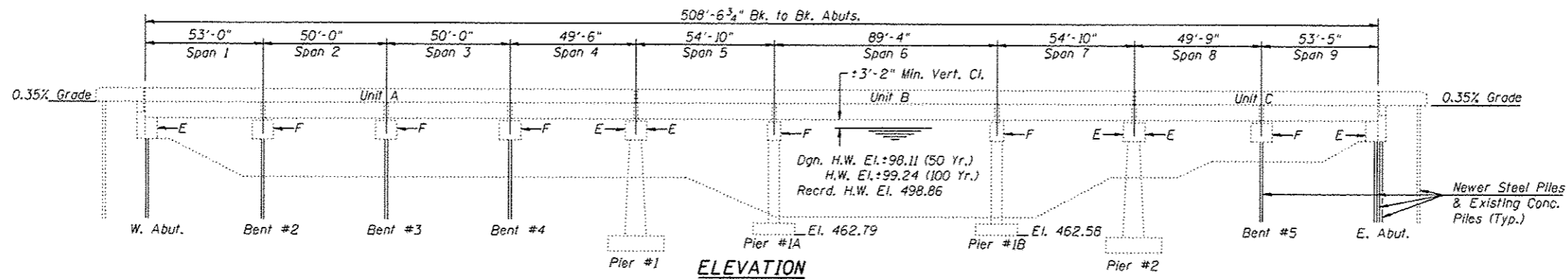
PROJECT SPECIFIC NOTES

The intent of this substructure repair is to supplement the experimental work done in 2012 where the delaminated and loose concrete was simply chipped off, blast cleaned, the rebar and surrounding concrete was metalized, and the metalized patch areas were then sealed with a concrete sealer. Metalizing is where molten zinc is sprayed onto the surface of the rebar and surrounding concrete. The intent of the 2012 work was to halt further corrosion of the rebar in a cost effective way. The unintended consequence was that substantially more concrete was removed than was anticipated, thus somewhat compromising the structural capacity of some of the columns.

The intent of this current contract is to follow the guidelines as set forth in the GBSP 53, Guide Bridge Special Provision: **STRUCTURAL REPAIR OF CONCRETE**. It should be noted that a substantial amount of the concrete removal work has already been achieved by the work done in 2012, however, much more needs to be done such as, but not limited to, saw cutting the perimeters of the patches where not done already, chipping more concrete to achieve the minimum repair depth of 1", and undercutting the rebar where necessary. Finally, when preparing the repair areas by blast cleaning, it should be noted that it is desired to leave intact as much metalizing as possible, especially on the rebar, while blast cleaning thoroughly enough to clean the patch area as intended by the GBSP as well as removing all of the concrete sealer applied in the 2012 work.

Note that no previous work has been done on the 20% "Winter Break-up" quantity provided in the schedule of quantities for Structural Repair of Concrete. The 20% "Winter Break-up" quantity will be found by the Resident Engineer through sounding.

FILE NAME :	USER NAME : AUBREYGS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND PROJECT SPECIFIC NOTES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\IL\084EBI\INTEG.illinois.gov\FWIDOT\Documents\DOT Offices\District 4\Projects\04_50\RW\00\00\00\Design\046075_sheets.dgn		CHECKED -	REVISED -		687	(123B)-1	FULTON	13	2				
PLOT SCALE * 100.0000 / in.		DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 68C75				
Defaults		PLOT DATE * 12/15/2015	REVISED -		ILLINOIS FED. AID PROJECT								

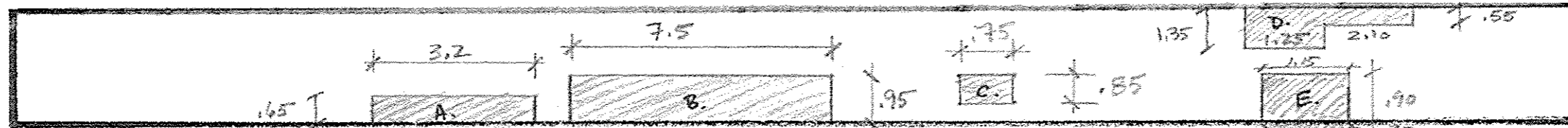


David Carl Fuze 2/8/16
Expires 11/30/16

S:\GEN. DRAFT\STDA\PL\W5\SD\4014\68075\54827\8825.dgn

FILE NAME :	USER NAME : AUBREYGS	DESIGNED - <i>KJK</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION SN.029-0025 IL.95 OVER SPOON RIVER			F.A.P. RTE. :	SECTION :	COUNTY :	TOTAL SHEETS :	SHEET NO. :
PROJECT :	PROJECT :	CHECKED - <i>VJFU</i>	REVISED -		687	(1238H-1)	FULTON	13	5			
PLOT SCALE : 1/8" = 1'-0"	DATE :	DATE :	REVISED -		CONTRACT MAINT. BRIDGE REPAIRS			CONTRACT: 68C75				
PLOT DATE : 2/8/2016	DATE :	DATE :	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

EAST ELEVATION
(LOOKING WEST)

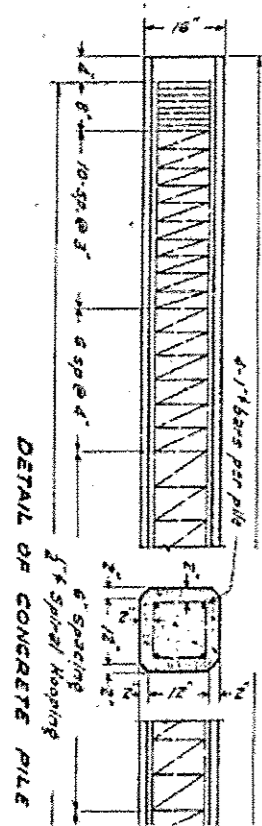
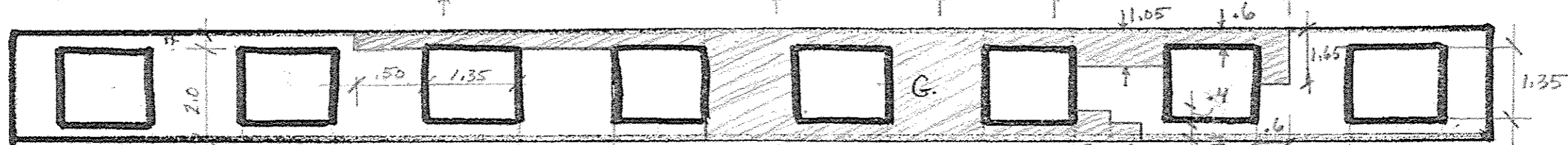


WEST ELEVATION
(LOOKING EAST)



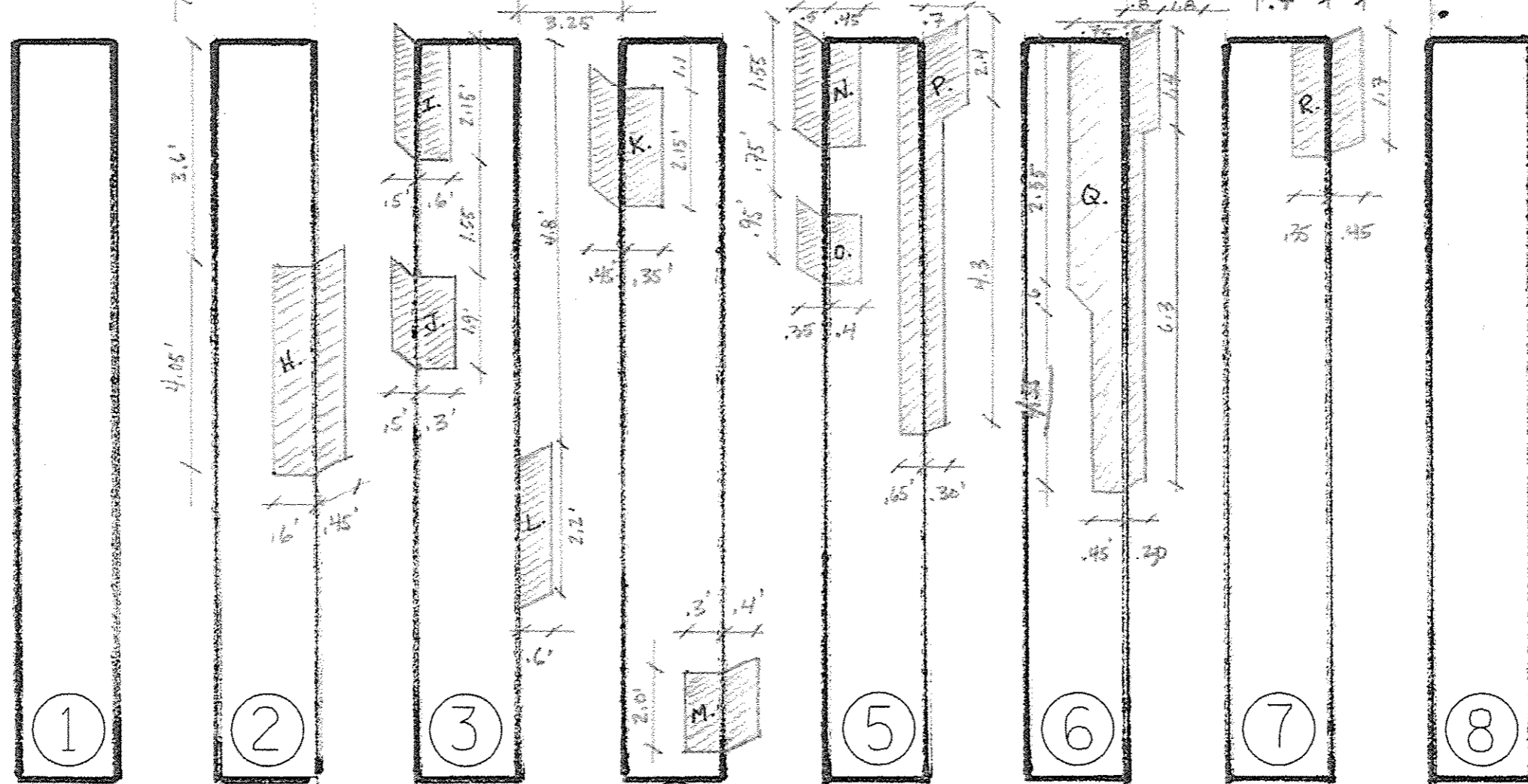
SEE NEXT PAGE
FOR TOP PORTION
OF THIS ELEVATION

BOTTOM



TYPICAL DETAIL
OF CONCRETE PILES

② TO ⑦



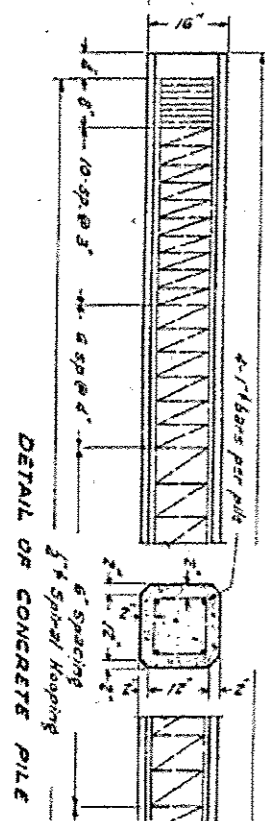
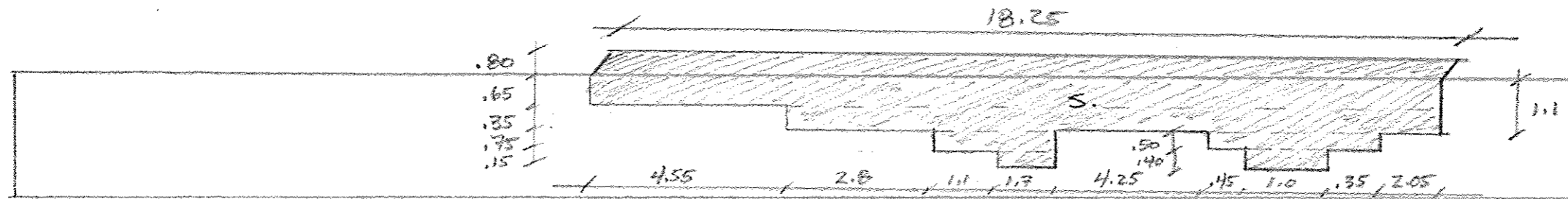
WEST ELEVATION (BENT 2)

ALL MEASUREMENTS ARE IN FEET

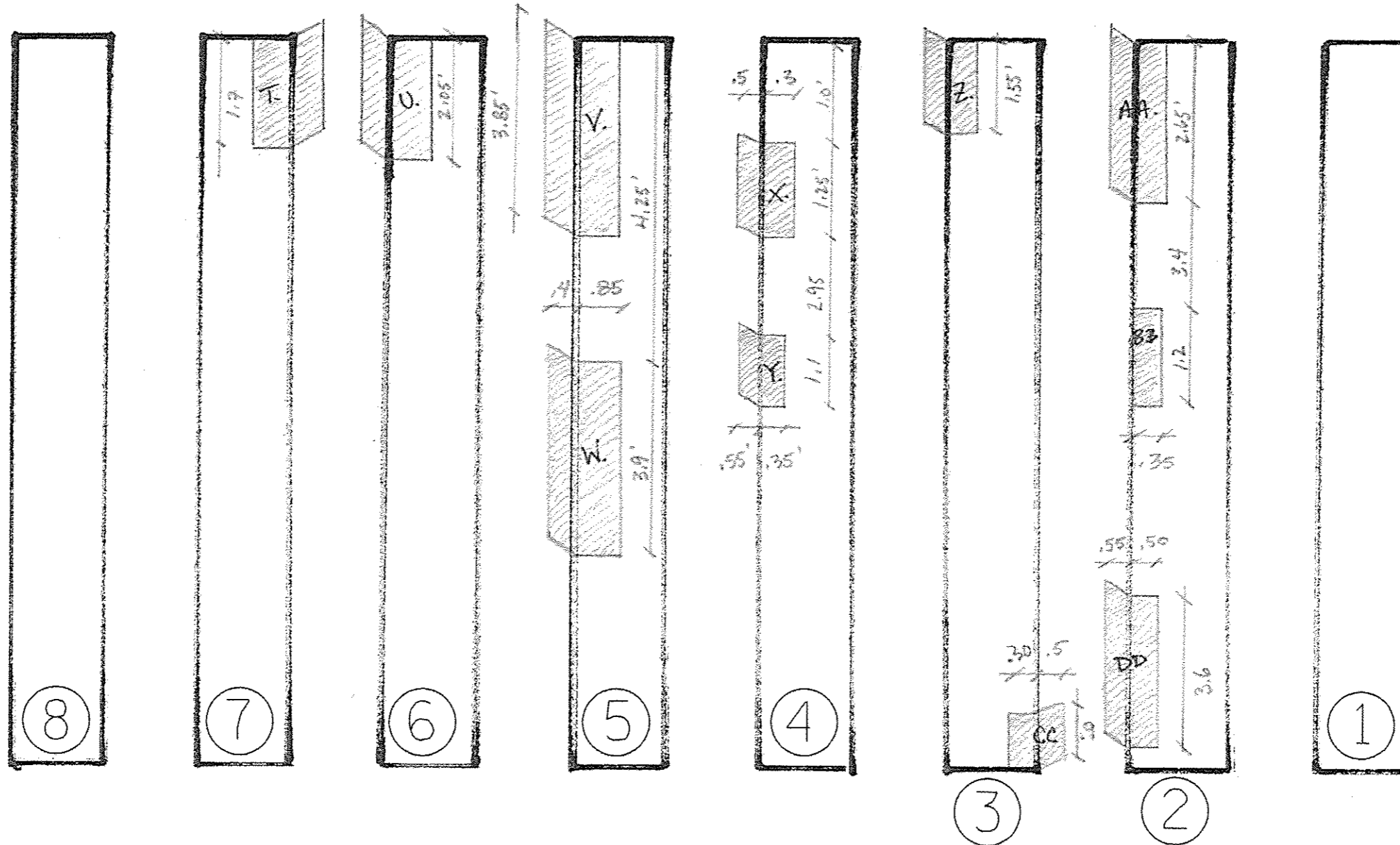
FILE NAME:	USER NAME = AUBREYGS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pm\11084EBIDINTEC\illinois.gov\PI\DOT\Documents\DOT Offices\Districts 4\Projects\04-687\046875-sheets.dgn		CHECKED -	REVISED -		687	(123B)-1	FULTON	13	6				
Default		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 68C75	

ILLINOIS FED. AID PROJECT

TOP PORTION OF WEST ELEVATION



TYPICAL DETAIL OF CONCRETE PILES
② TO ⑦



EAST ELEVATION (BENT 2)

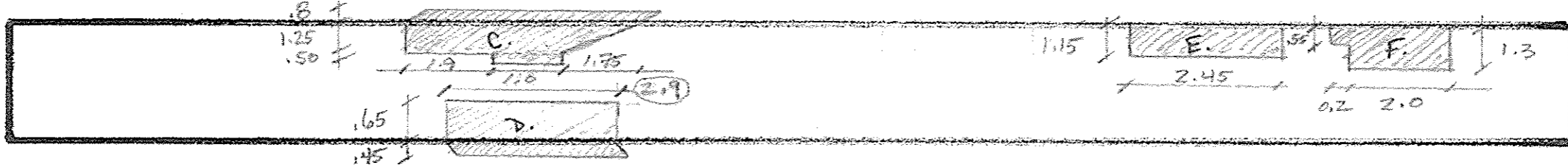
ALL MEASUREMENTS ARE IN FEET

FILE NAME : pm\110046BID\INTEG.illinois.gov\W\DOT\Do	USER NAME : ALBREYCS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Documents\DOT Office\District 4\Projects\04	DD\RW\RD\Design\046075-Sheets.dgn	CHECKED -	REVISED -		687	(123B)-1	FULTON	13	7				
PLOT SCALE = 100.0000 / 1 in.	DATE -	REVISED -	REVISED -		CONTRACT NO. 68C75								
PLOT DATE = 2/8/2016	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								
Default				SCALE:	SHEET	OF	SHEETS	STA.	TO STA.				

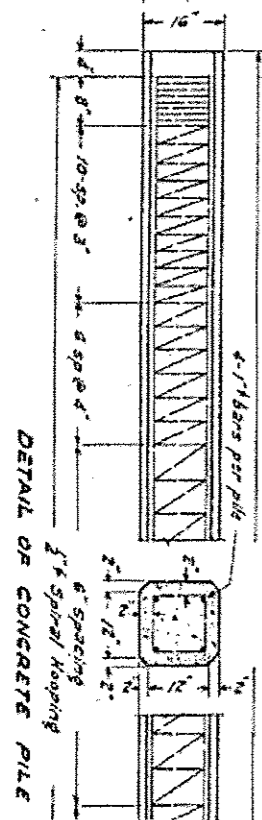
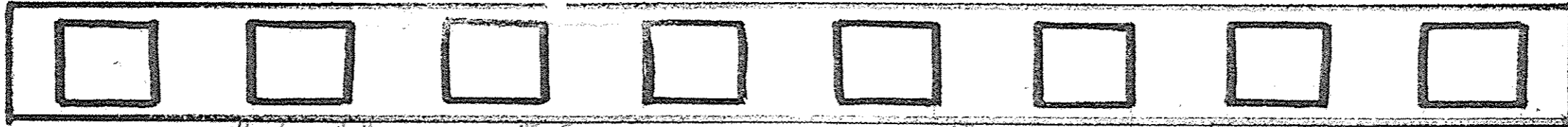
EAST ELEVATION
(LOOKING WEST)



WEST ELEVATION
(LOOKING EAST)

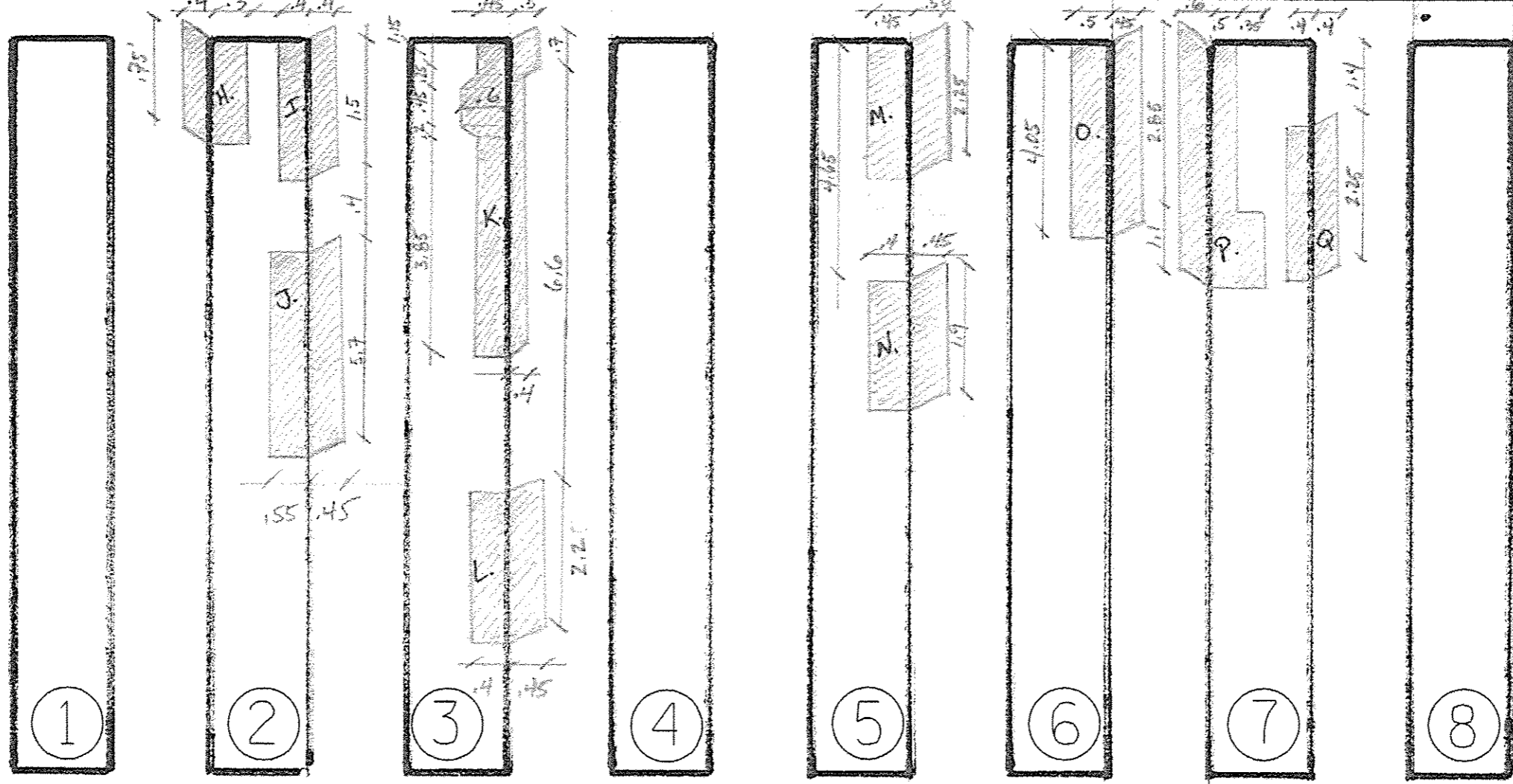


BOTTOM



TYPICAL DETAIL
OF CONCRETE PILES

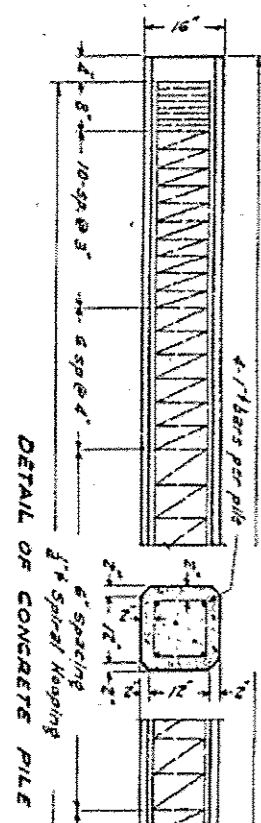
② TO ⑦



ALL MEASUREMENTS ARE IN FEET

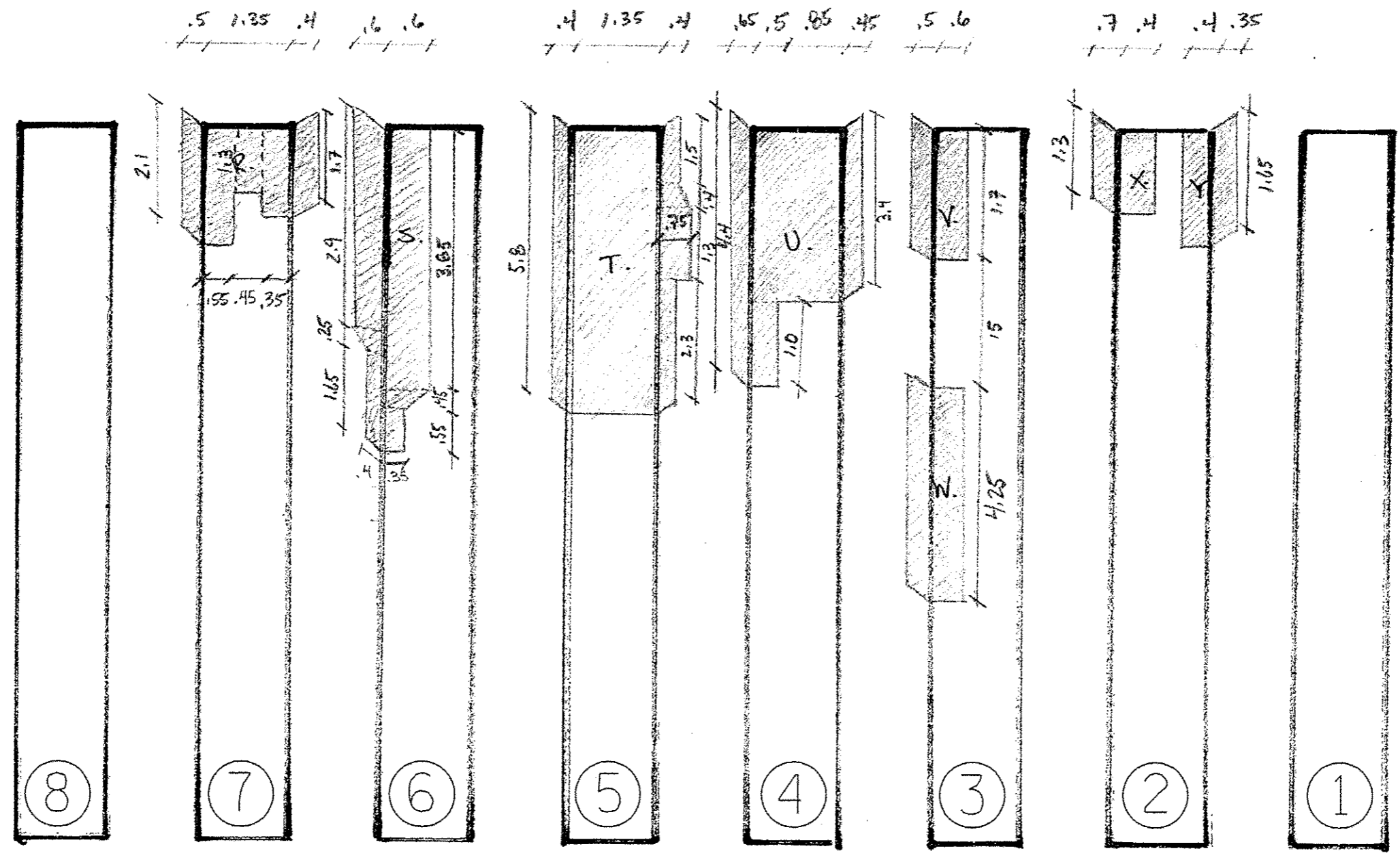
WEST ELEVATION (BENT 3)

FILE NAME : p:\110848\BID\INTD\Illinois.gov\PWIDT\04	USER NAME : AUBREYCS c:\users\1007\Documents\District 4\Projects\04	DESIGNED - BORAWIND\04\Design\048875-sheets.dgn	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 100.0000 / in.	CHECKED -	REVISED -	687			(123B)-1	FULTON	13	8	
DATE : 2/9/2016	DATE -	REVISED -	CONTRACT NO. 68C75							
DeFault	DATE -	REVISED -	SCALE:			SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		



TYPICAL DETAIL OF CONCRETE PILES
② TO ⑦

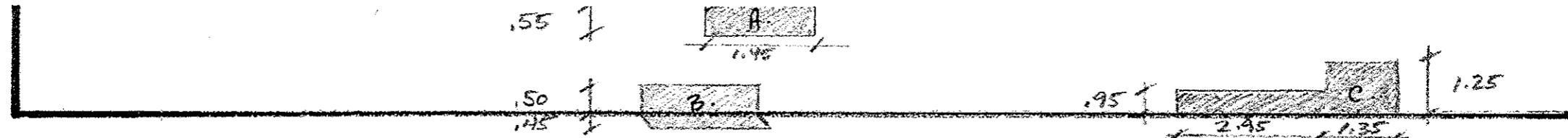
ALL MEASUREMENTS ARE IN FEET



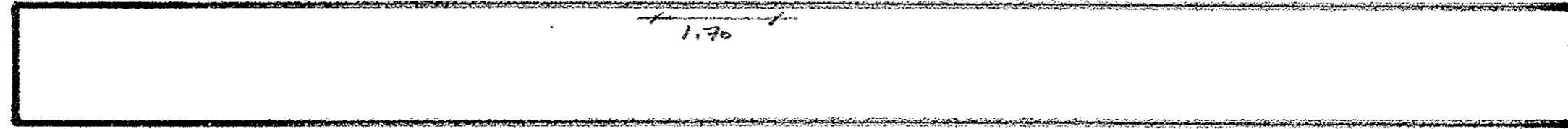
EAST ELEVATION (BENT 3)

FILE NAME :	USER NAME : AUREYGS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\11084EBID\INTEG.illinois.gov\PI007\Documents\DDT\Offices\District 4\Projects\04_HO\WORK\04Data\Design\468C75-sheet.dgn	PROJECT :	CHECKED -	REVISED -			687	11236H-1	FULTON	13	9	
PLOT SCALE : 100.0000 / 1"	DATE :	CHECKED -	REVISED -			CONTRACT NO. 68C75					
Default	PLOT DATE : 2/8/2016	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

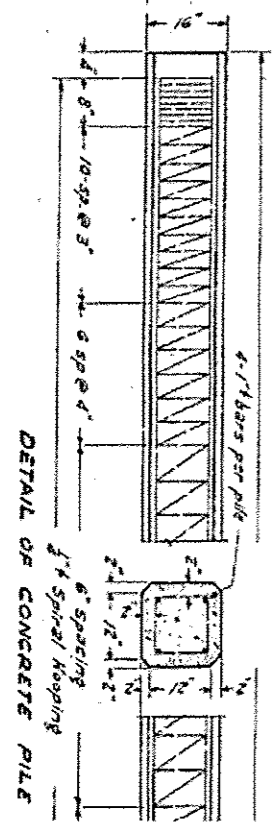
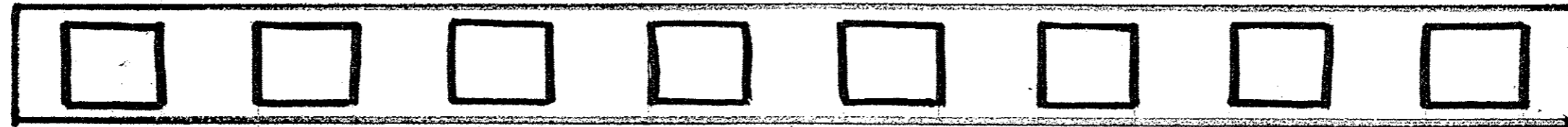
EAST ELEVATION
(LOOKING WEST)



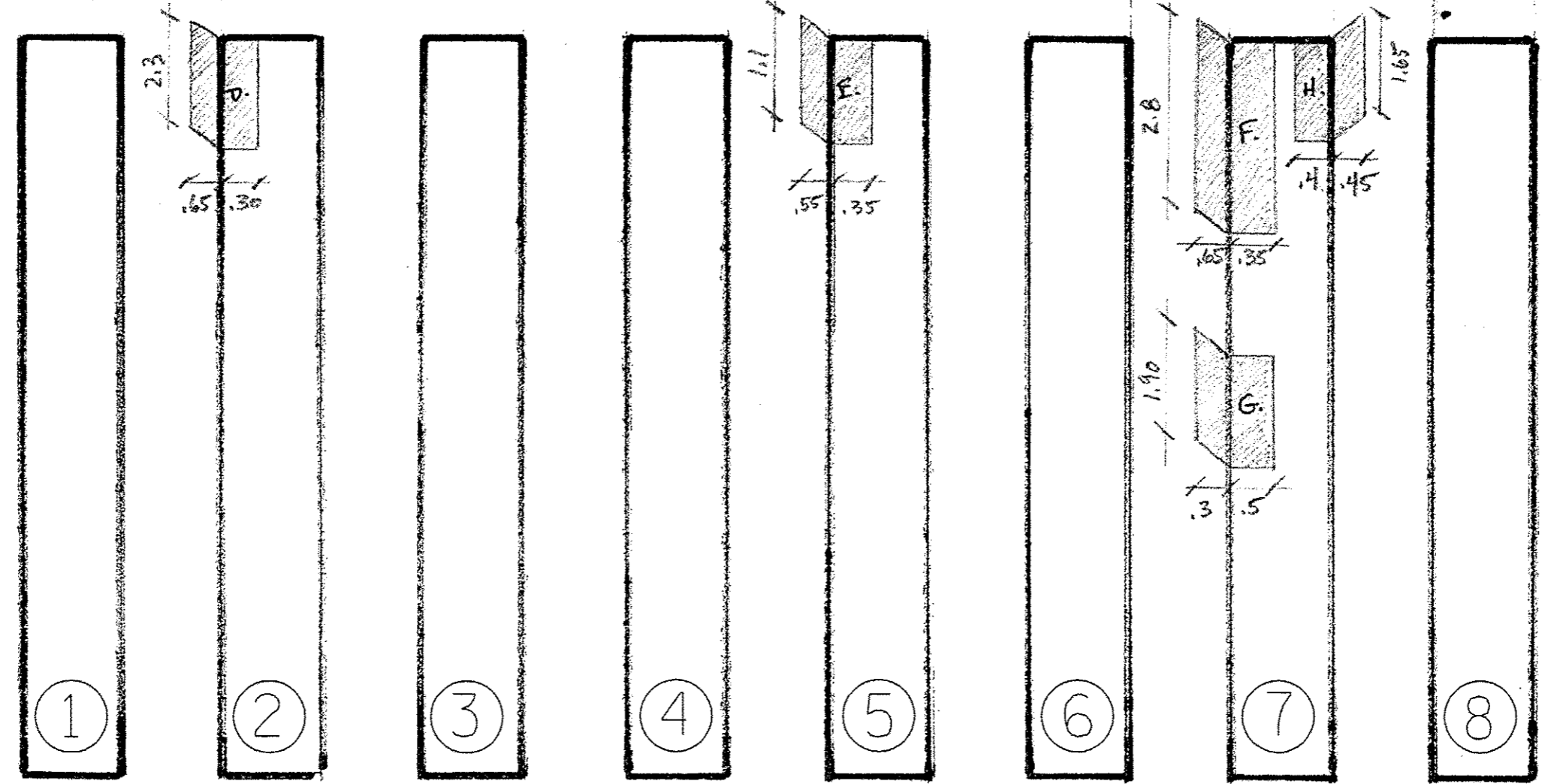
WEST ELEVATION
(LOOKING EAST)



BOTTOM



TYPICAL DETAIL
OF CONCRETE PILES
② TO ⑦

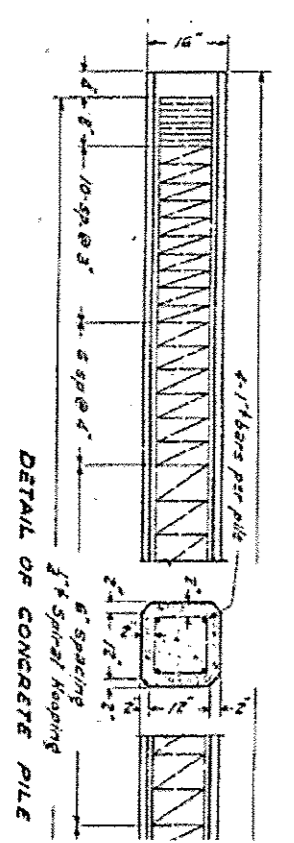
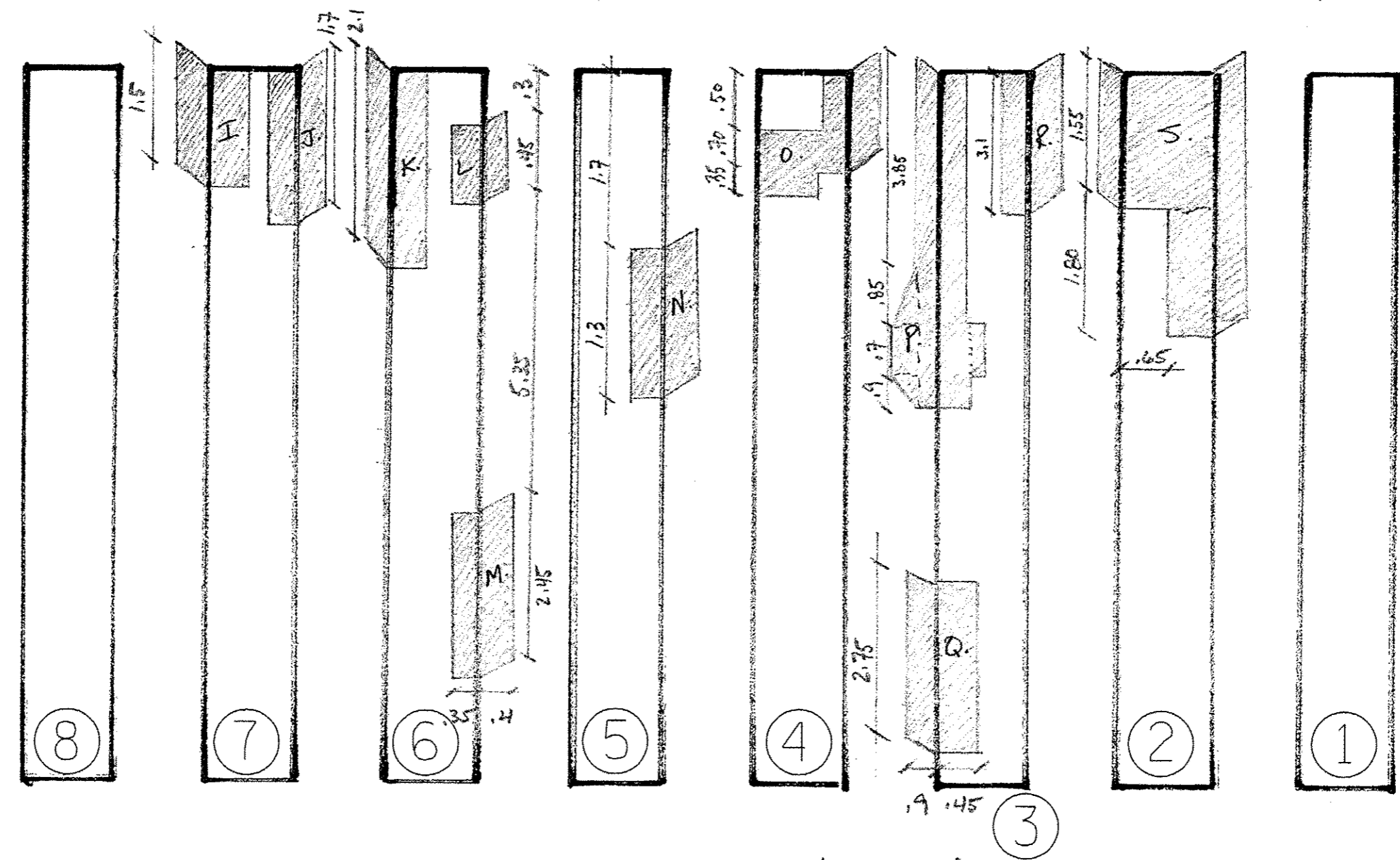


WEST ELEVATION (BENT 4)

ALL MEASUREMENTS ARE IN FEET

FILE NAME :	USER NAME : AUREYDS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
path: \\IL084EBID\INTEG.illinois.gov\PI007\Documents\1007 Offices\District 4\Projects\04_80\PARM\00Data\Design\0468C75-sheets.dgn	PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -					687	(123B)-1	FULTON	13	10
Default	PLOT DATE = 2/9/2016	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 68C75				
ILLINOIS FED. AID PROJECT												

.9 .4 .45 .55 .7 .4 .5 .35 .3 .4 .9 .4 .5 .35 .5 .4 .45 .45 .8 1.35 .55



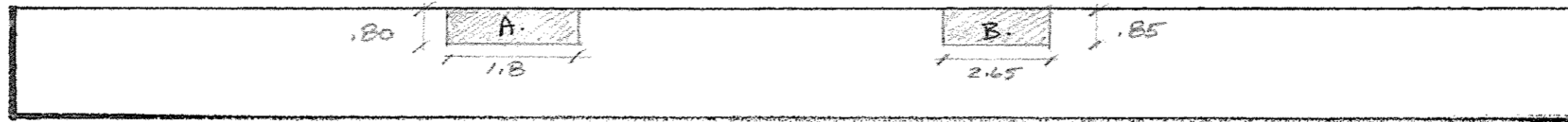
TYPICAL DETAIL OF CONCRETE PILES
② TO ⑦

EAST ELEVATION (BENT 4)

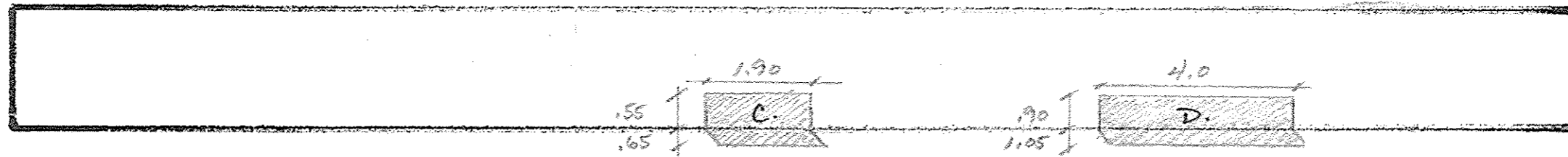
ALL MEASUREMENTS ARE IN FEET

FILE NAME : p:\11084681\INTEC\Illinois.gov\PIWIDOT\04	USER NAME : ALBREYOS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									687	(123B)-1	FULTON	13	11
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 68C75		
											ILLINOIS FED. AID PROJECT		

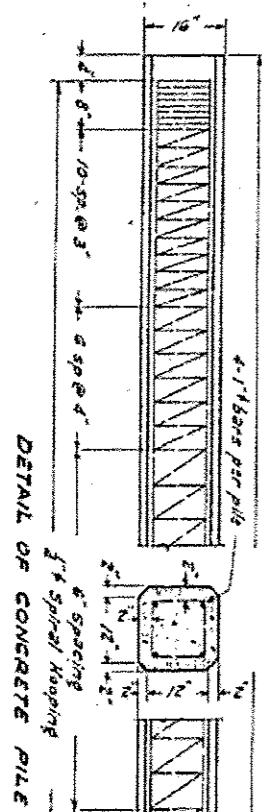
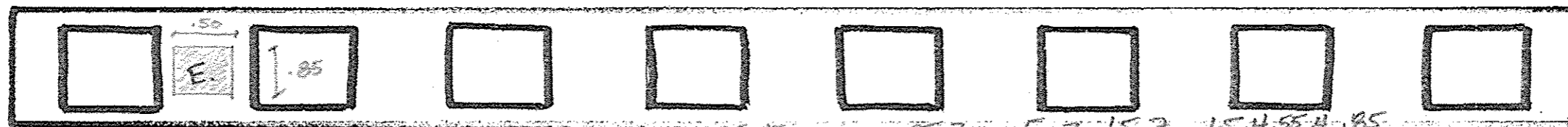
EAST ELEVATION
(LOOKING WEST)



WEST ELEVATION
(LOOKING EAST)



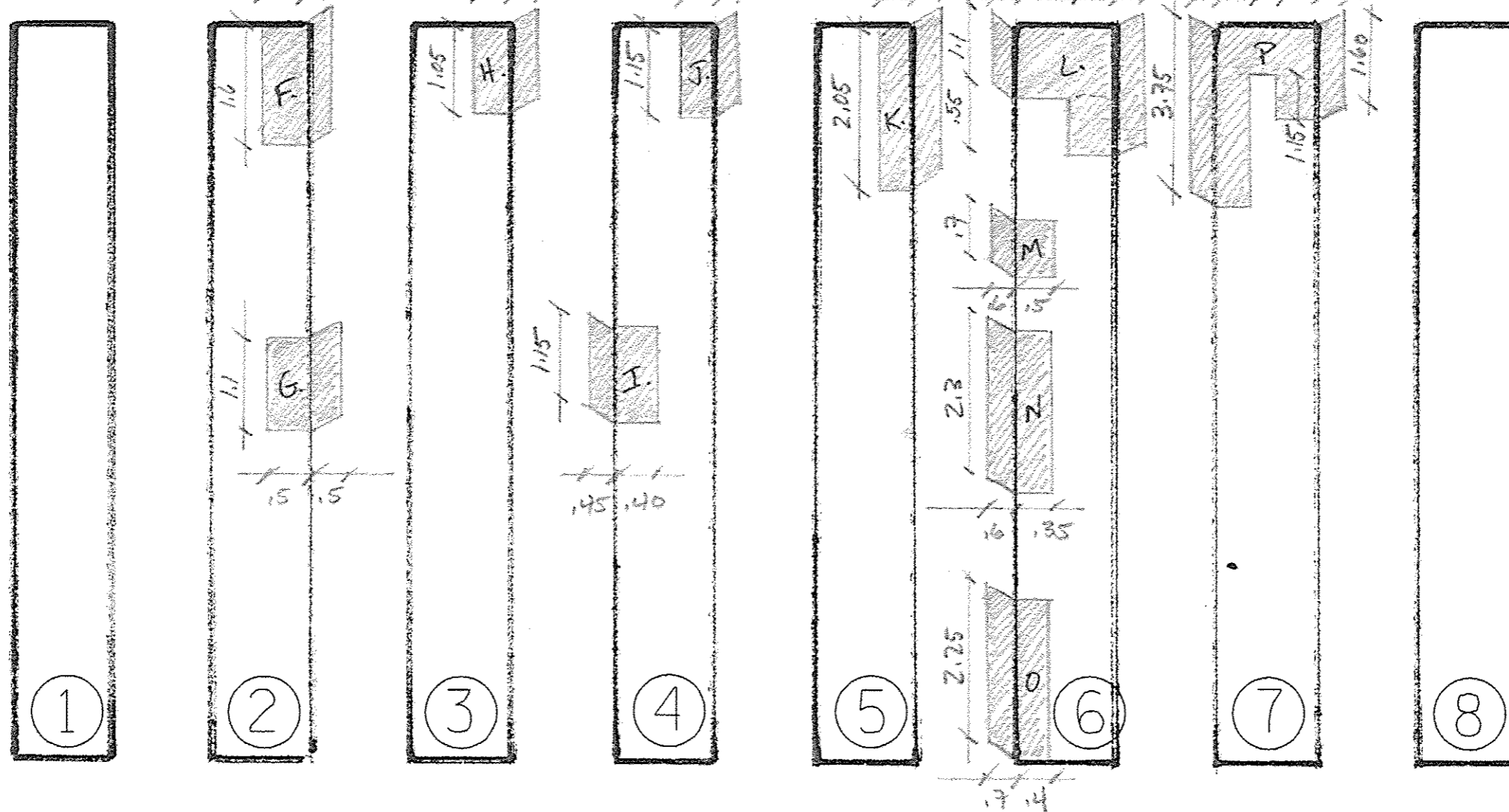
BOTTOM



TYPICAL DETAIL
OF CONCRETE PILES

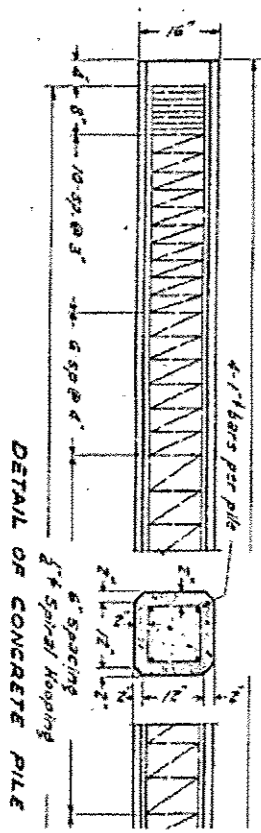
② TO ⑦

ALL MEASUREMENTS ARE IN FEET



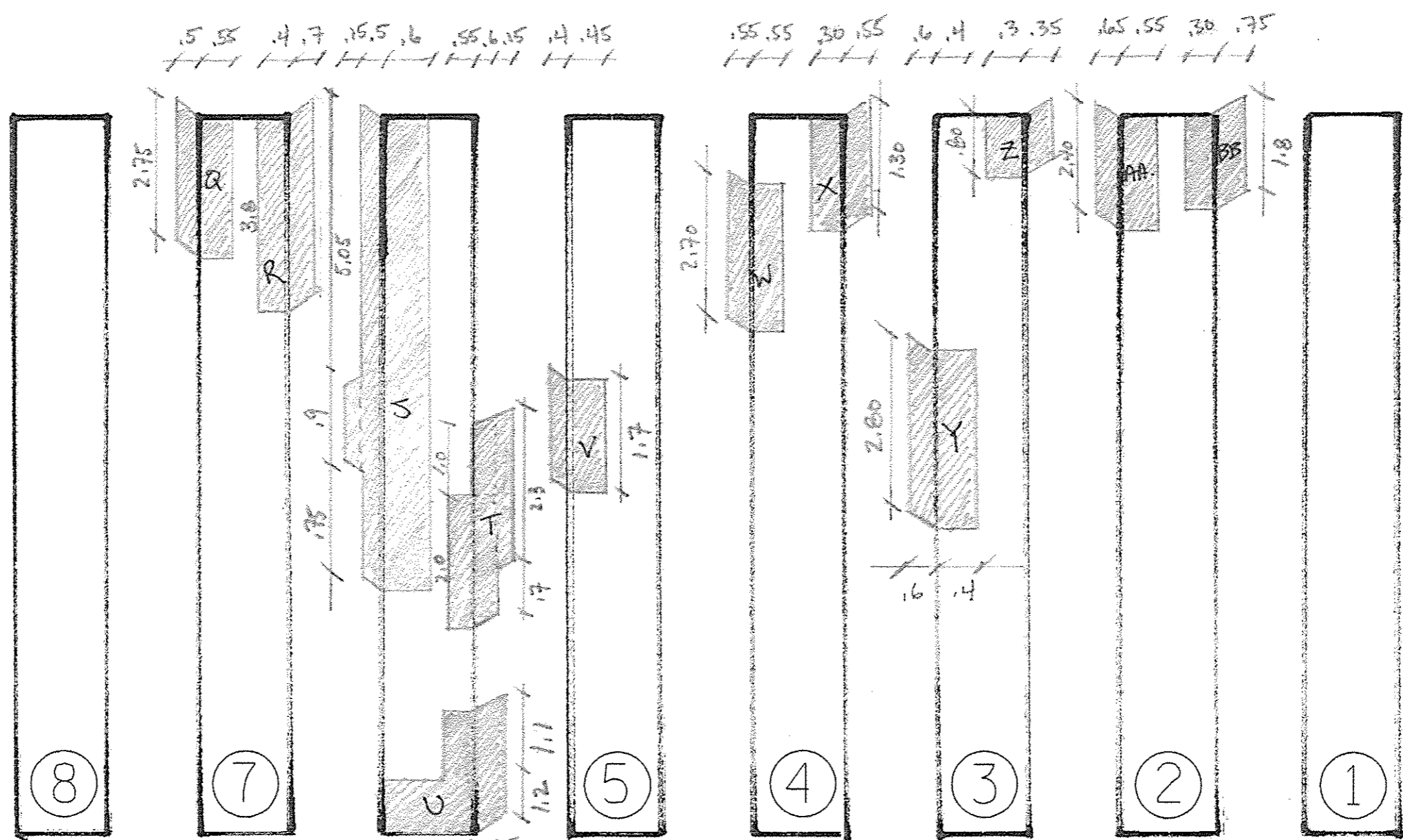
WEST ELEVATION (BENT 5)

FILE NAME :	USER NAME : AUBREYOS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pc:\illob4egid\nteg\illinois.gov\PI00T\Documents\100T Offices\Districts 4\Projects\04 CORNER\04Data\Design\0468C75-sheets.dgn	CORNER\04Data\Design\0468C75-sheets.dgn	CHECKED -	REVISED -						687	123BH-1	FULTON	13	12
PLOT SCALE = 100.0000 / in.		DATE -	REVISED -		CONTRACT NO. 68C75								
PLOT DATE = 2/9/2016					ILLINOIS FED. AID PROJECT								



TYPICAL DETAIL OF CONCRETE PILES
② TO ⑦

ALL MEASUREMENTS ARE IN FEET



EAST ELEVATION (BENT 5)

FILE NAME = p:\ILB4EBID\INTEG.illinois.gov\100T\Documents\100T\Office\District 4\Projects\04-CD\PROJECT\Design\0408C75-sheets.dgn	USER NAME = ALBREYDS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL REPAIR OF CONCRETE DETAIL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	687	(123B)-1	FULTON
Default	PLOT DATE = 2/8/2018	DATE -	REVISED -						CONTRACT NO. 68C75				
												[ILLINOIS] FED. AID PROJECT	