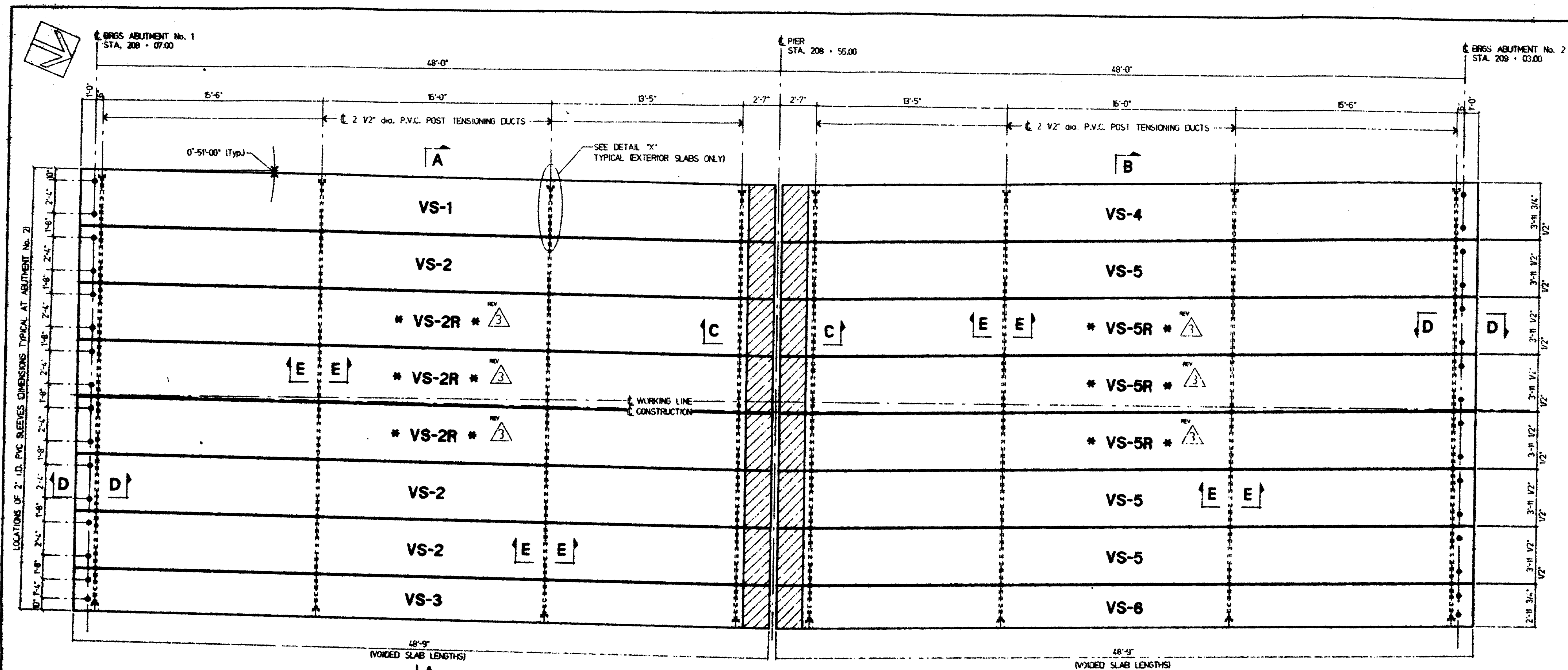




1. Tensioning of prestressed strands shall be done in accordance with Standard and Supplemental Specifications Section 535. The jacking force applied to the prestressing strands shall be 29,000 pounds.
2. Neoprene pads shall be either polychloroprene or natural polyisoprene of 50 +/- 5 Shore A durometer hardness and shall conform to the requirements of Division 2, Section B.2 of A.A.S.H.T.O. Standard Specifications for Highway Bridges. Neoprene pads will not be paid for directly, but will be considered incidental to related contract items.
3. Install a 1" dia. non-metallic void drain in the bottom of each void 6" from each end (See individual voided slab drawings).
4. Reinforcing steel shall have 2" minimum cover (Unless otherwise noted).
5. Post Tensioning shall be covered by a seamless Polypropylene Sheath (with corrosion inhibiting grease between the strands and sheath) for the full length of the strand. (Except at anchorage locations.)
6. PC800 and PC821 have been combined into one bar, this eliminates the Mechanical / Welded Splice connection shown on contract drawing Sheet 21 of 46. (See individual voided slab drawings.)
7. Extra PC851 bars over pier in black-out section, shall be supplied with the precast voided slabs.

SPECIFICATION

DESIGN : AASHTO Bridge Design Specifications 1994 with Interims 1996.

CONTRACT : State of Maine, Department of Transportation, Standard Specifications Highways and Bridges, Revisions of April 1995.

DESIGN LOADING

LIVE LOAD : Modified Strength I Seismic Performance Category A

MATERIALS

CONCRETE : Precast, Class P

REINFORCING STEEL : ASTM A65 Grade 60

STRUCTURAL STEEL : ASTM A36

BASIC ALLOWABLE STRESSES

CONCRETE : Class P, $f_c = 6000$ psi

REINFORCING STEEL : $f_y = 60,000$ psi

3	MARK NO. 5 AS PER APPROVED MEMO	April 28, 98	GREG
2	UPDATED POCKET DETAIL	March 10, 98	JMS
1	RECORD COPY	Feb. 6, 98	JMS
0	ISSUED FOR APPROVAL	Jan. 9, 98	GREG

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DIVISION

NO EXCEPTIONS NOTED

MAY 14 1998

RETURNED FOR CORRECTIONS REJECTED
DOCUMENT REVIEWED IN ACCORDANCE WITH SECTION 105 OF STANDARD SPECIFICATIONS



CPM CONSTRUCTORS
FREEPORT, MAINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

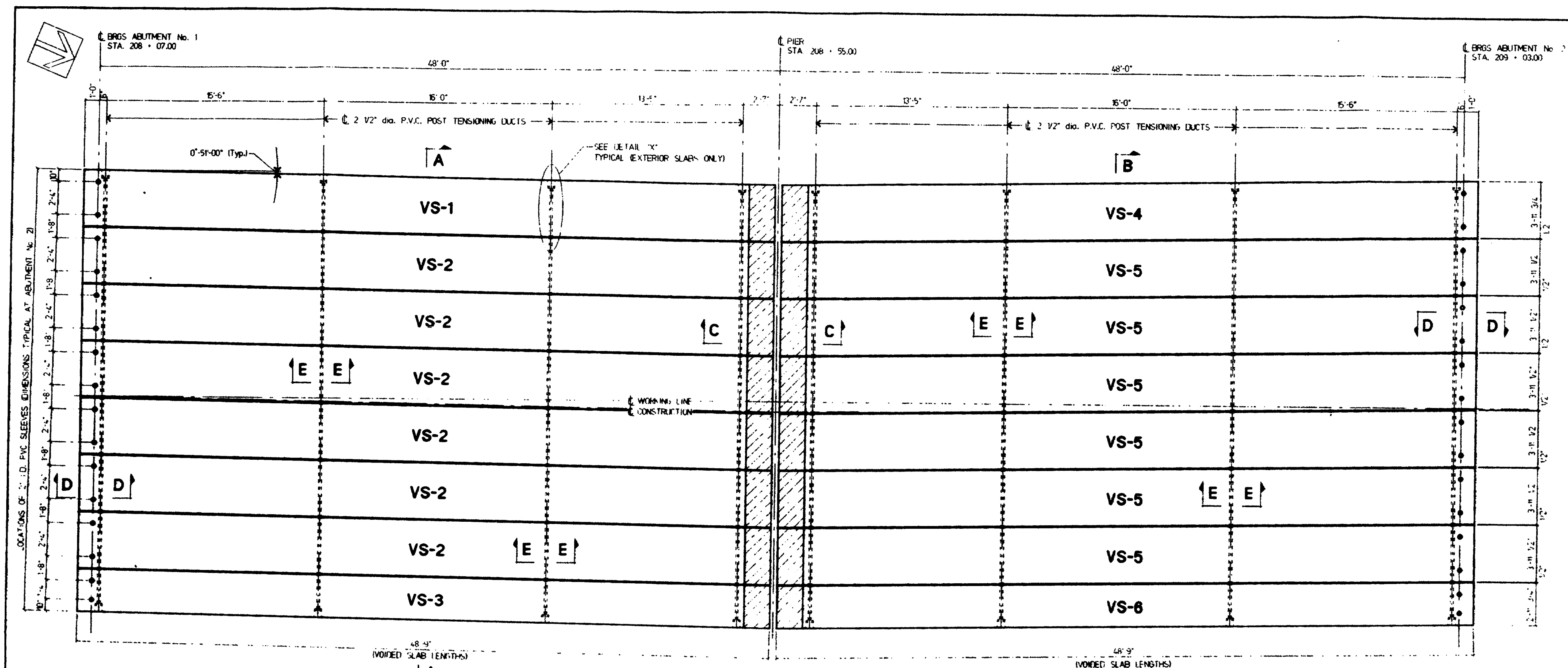
DILL BRIDGE
OVER SOUTH BRANCH SANDY RIVER
IN THE TOWN OF PHILLIPS - FRANKLIN COUNTY, MAINE

VOIDED SLAB LAYOUT & SECTIONS

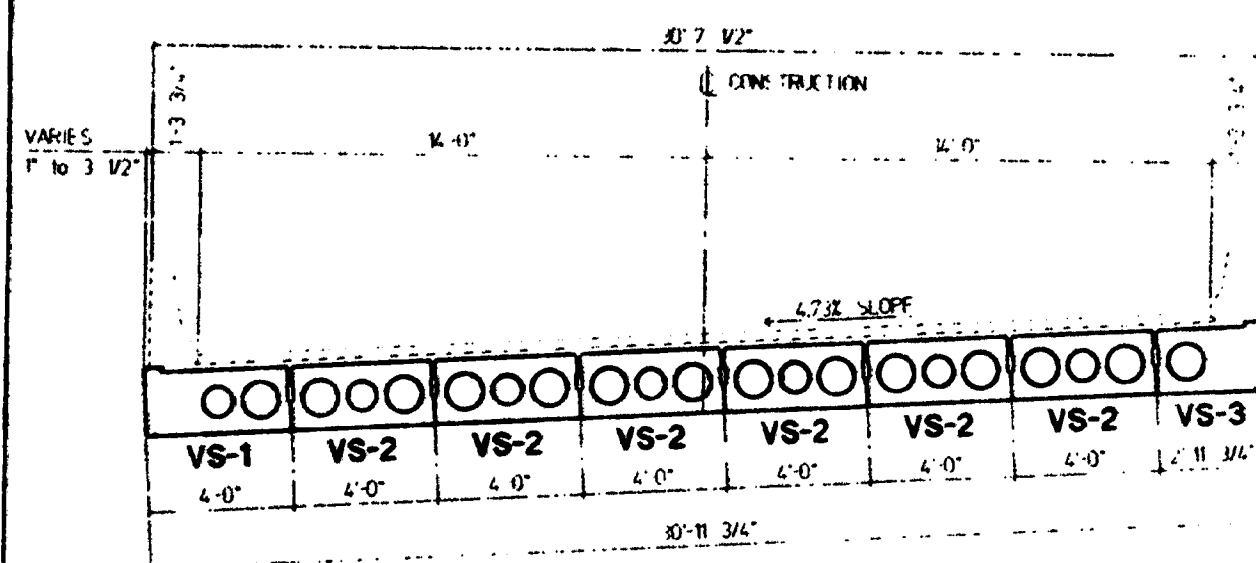
STRESCON LIMITED
SAINT JOHN, N.B. BEDFORD, N.S.

DESIGNED BY	DATE	REV
GREG	GREG	Jan. 9, 98
DATE SUBMITTED	CONTRACT NUMBER	DRAWING NO.
dill.db	2020	E-1

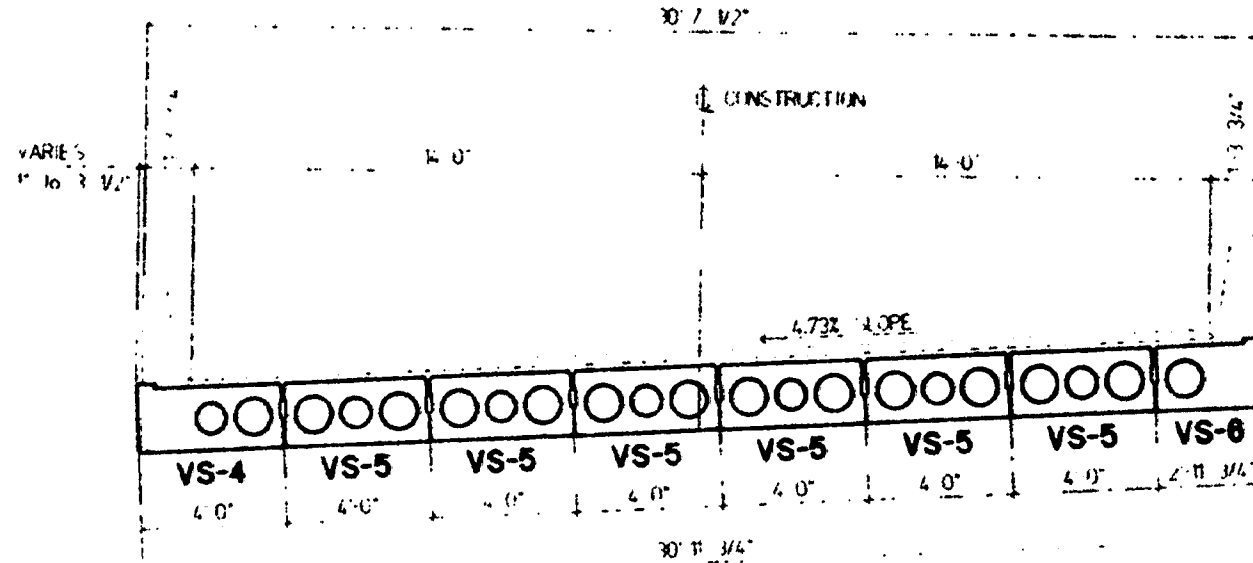
121-432



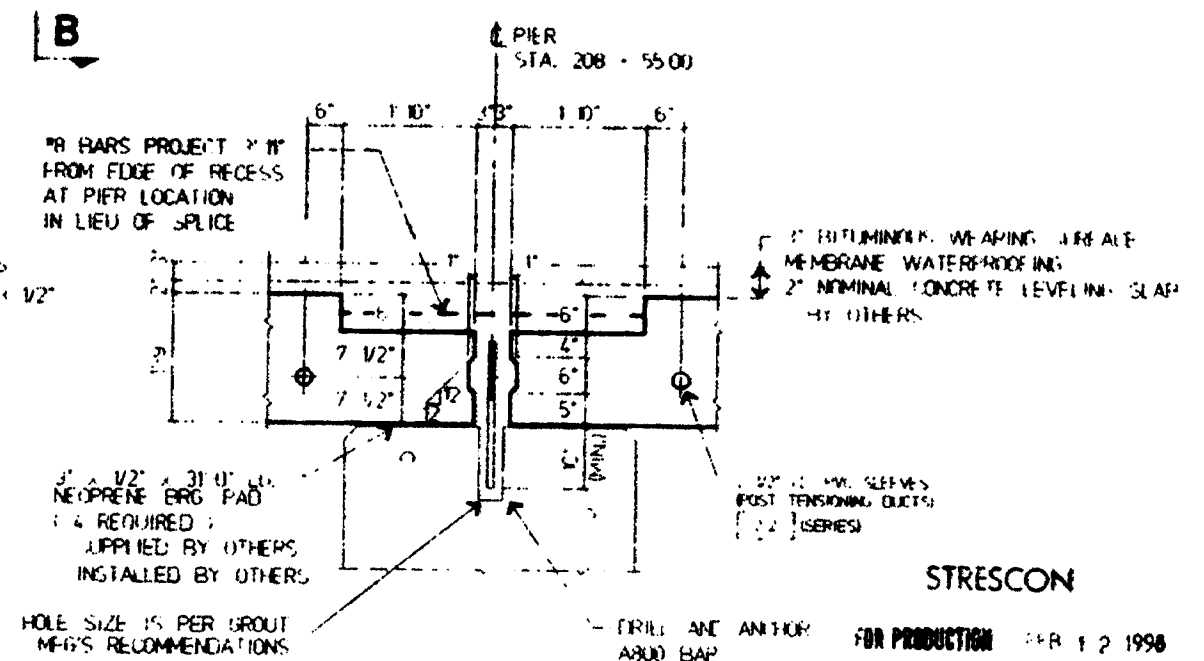
VOIDED SLAB LAYOUT



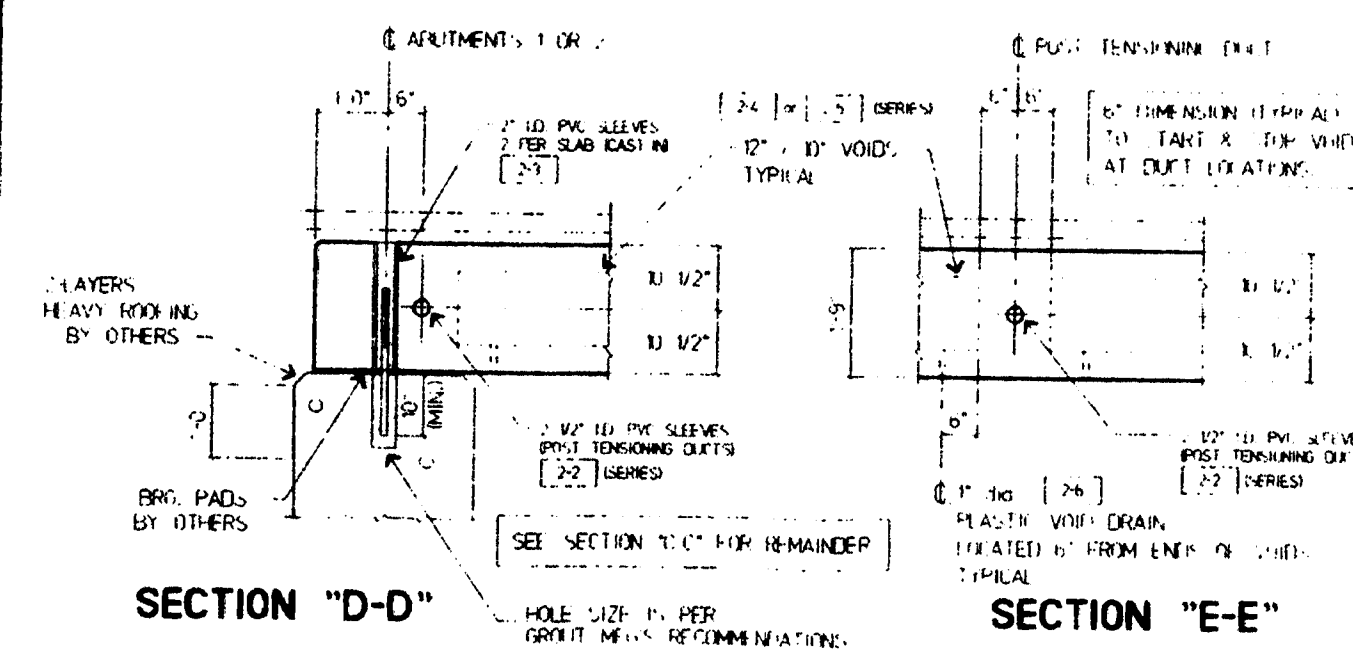
SECTION "A-A"



SECTION "B-B"

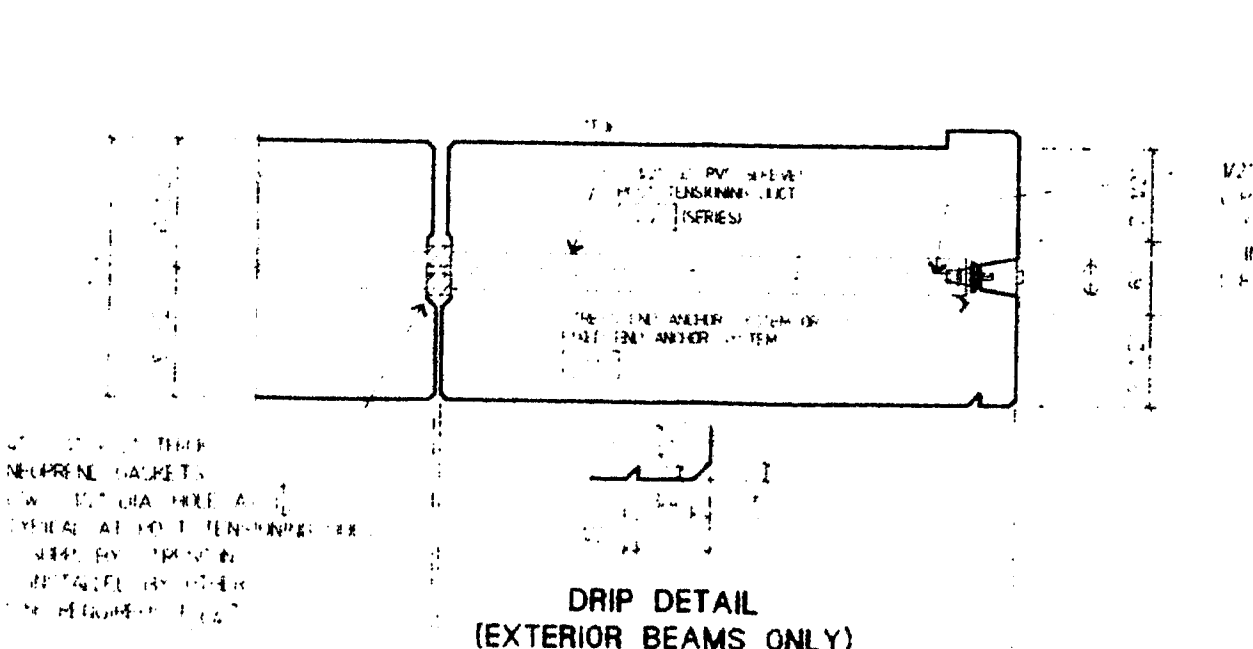


SECTION "C-C"

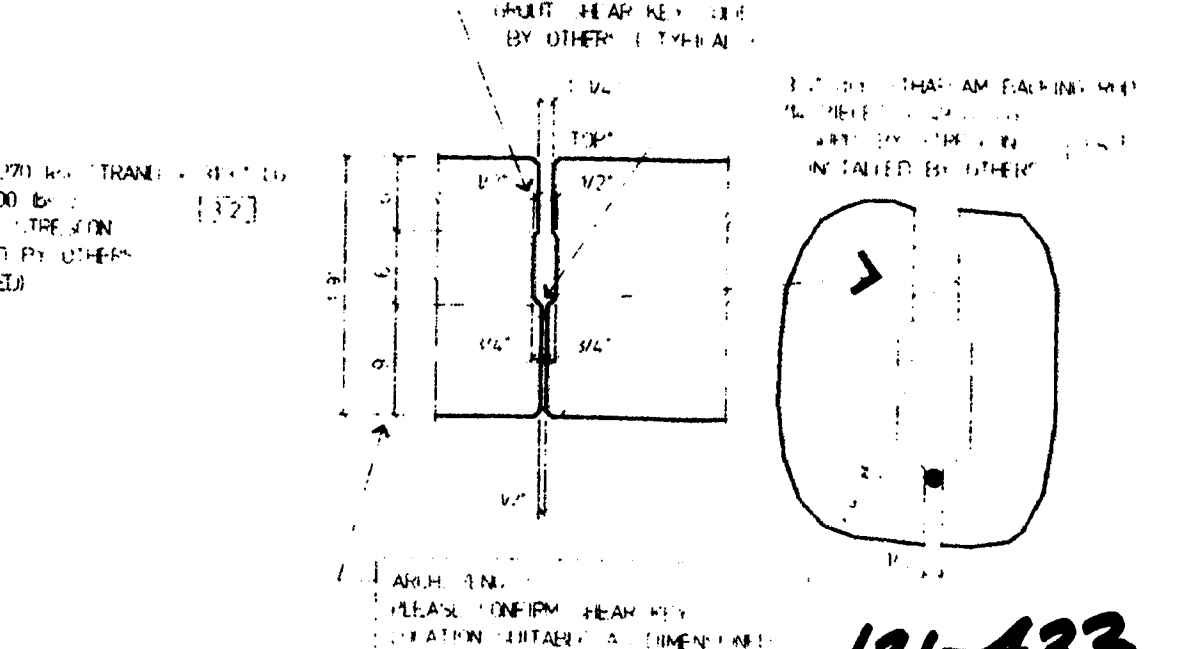


SECTION "D-D"

SECTION "E-E"



DETAIL "X"



TYPICAL SECTION AT JOINTS

1. Tensioning of prestressing strands shall be done in accordance with Standard and Supplemental Specifications Section 535. The jacking force applied to the prestressing strands shall be 29,000 pounds.
2. Neoprene pads shall be either polychloroprene or natural polyisoprene of 50 +/- 5 Shore A durometer hardness and shall conform to the requirements of Division 2, Section 8.2 of A.A.S.H.T.O. Standard Specifications for Highway Bridges. Neoprene pads will not be paid for directly, but will be considered incidental to related contract items.
3. Install a 1" dia. non-metallic void drain in the bottom of each void 6" from each end (See individual voided slab drawings) (Unless otherwise noted)
4. Reinforcing steel shall have 2" minimum cover (Unless otherwise noted)
5. Post Tensioning shall be covered by a seamless Polypropylene Sheath (with corrosion inhibiting grease between the strands and sheath) for the full length of the strand. (Except at anchorage locations.)
6. P1700 and P1801 have been combined into one bar, this eliminates the Mechanical / Welded Splice connection shown on contract drawing Sheet 21 of 46. (See individual voided slab drawings)
7. Extra P1551 bars over pier in blockout section, shall be supplied with the precast voided slabs.

SPECIFICATION

DESIGN : AASHTO Bridge Design Specifications 1994 with Interim 1995.
 CONTRACT : State of Maine, Department of Transportation, Standard Specifications Highways and Bridges, Revisions of April 1995.

DESIGN LOADING

LIVE LOAD : Modified Strength I Seismic Performance Category A

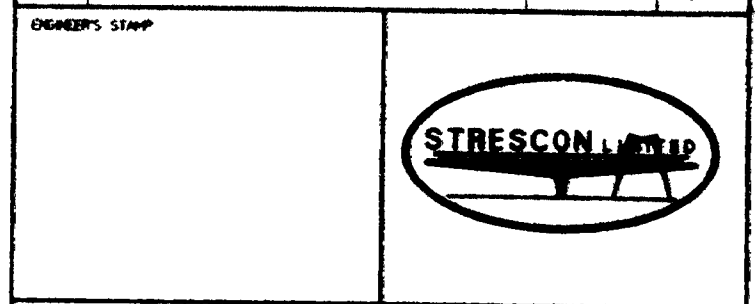
MATERIALS

CONCRETE : Precast Class P
 REINFORCING STEEL : ASTM A615 Grade 60
 STRUCTURAL STEEL : ASTM A36

BASIC ALLOWABLE STRESSES

CONCRETE : Class P, $f'_c = 4000$ psi
 REINFORCING STEEL : $f_y = 60,000$ psi

RECORDED COPY	Feb. 6, 98	JAC
ISSUED FOR APPROVAL	Jan. 9, 98	CRD
REVISION	DATE	BY



DESIGNER : CPM CONSTRUCTORS
 FREEPORT, MAINE

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION

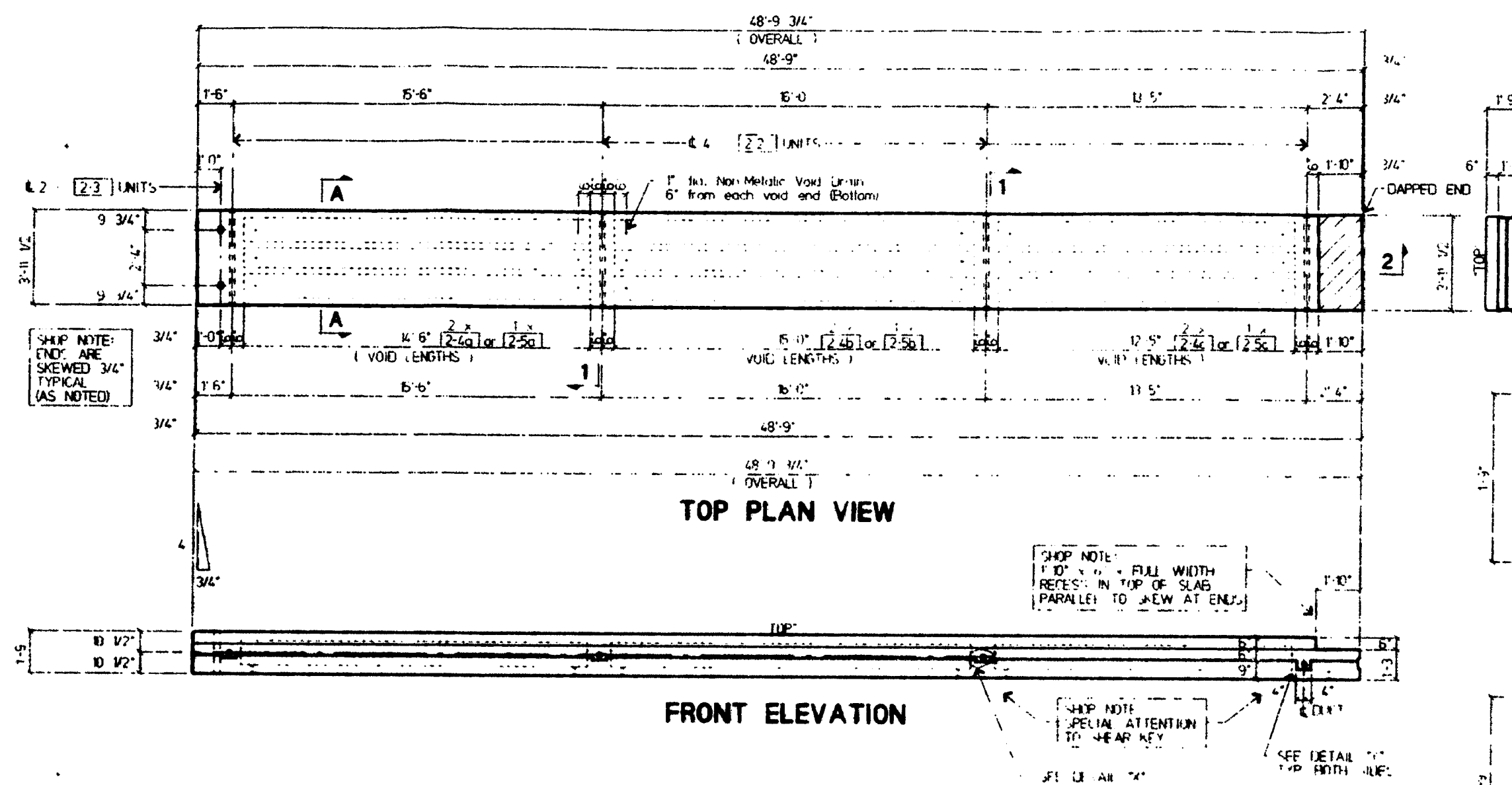
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION

DILL BRIDGE
 OVER SOUTH BRANCH SANDY RIVER
 IN THE TOWN OF PHILLIPS - FRANKLIN COUNTY, MAINE

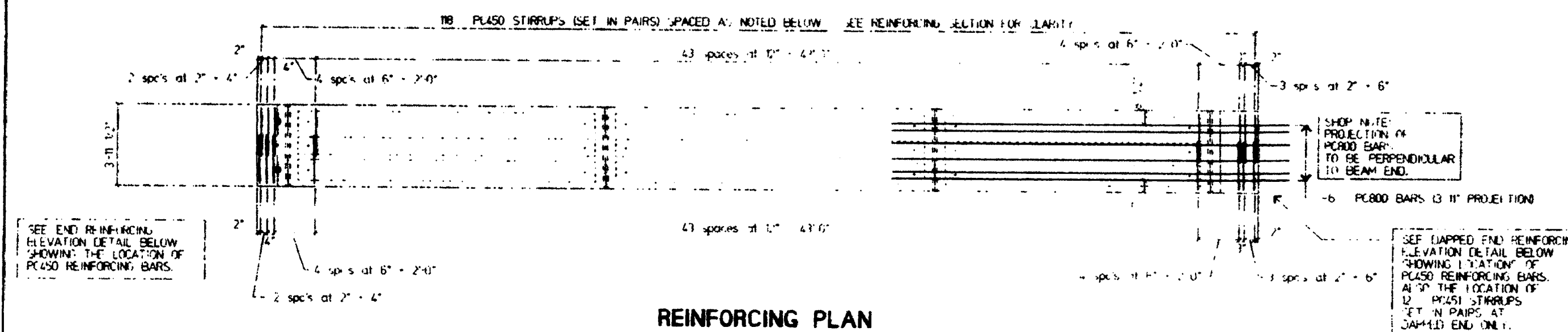
VOIDED SLAB LAYOUT & SECTIONS

STRESCON LIMITED
 SAINT JOHN, N.B. BEDFORD, N.S.

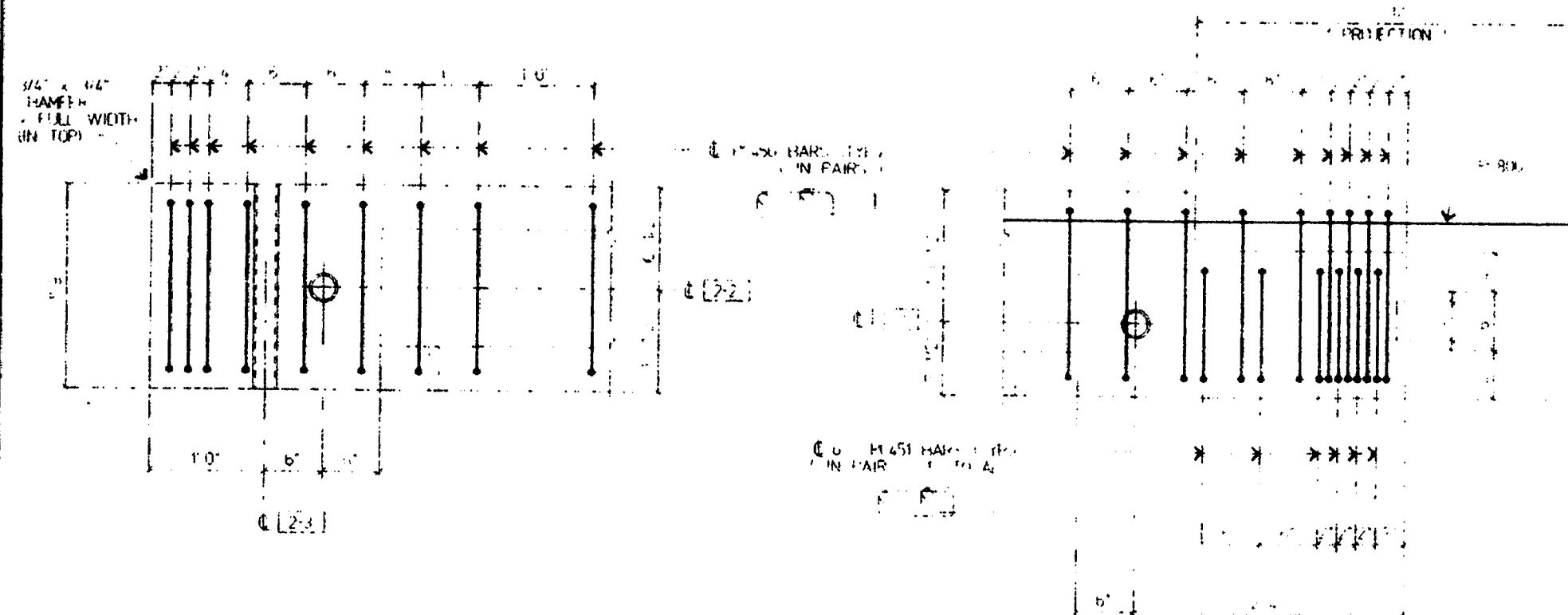
DATE	2010	BY	E-1
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INTERIOR VOIDED SLAB DETAIL VS-2 (6 REQUIRED) WEIGHT = 34,400 lbs



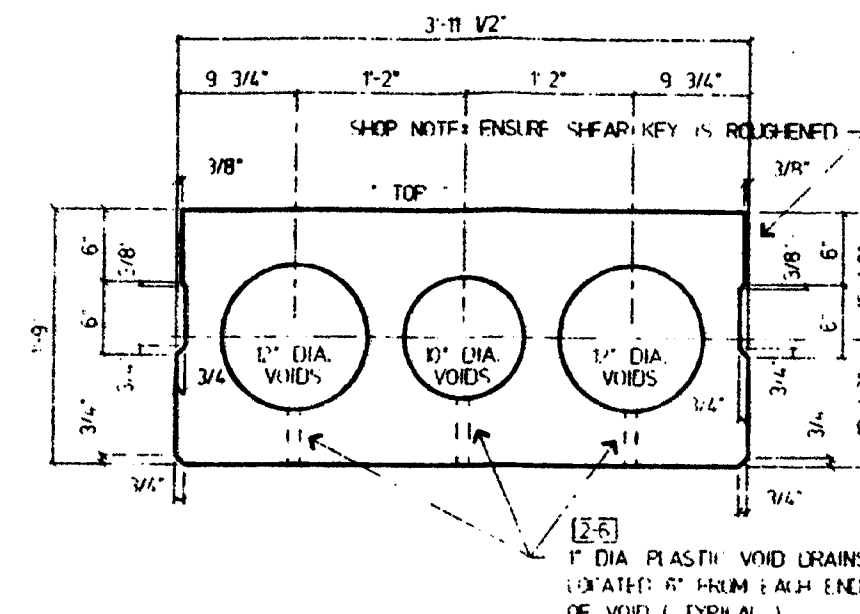
REINFORCING PLAN



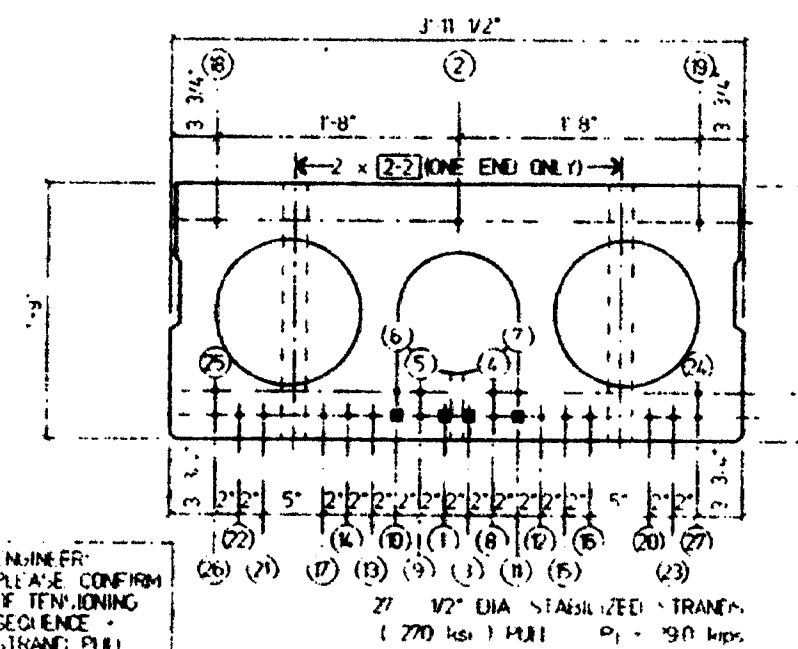
END ELEVATION DETAIL
(SHOWING REINFORCING)

DAPPED END ELEVATION DETAIL
(SHOWING REINFORCING)

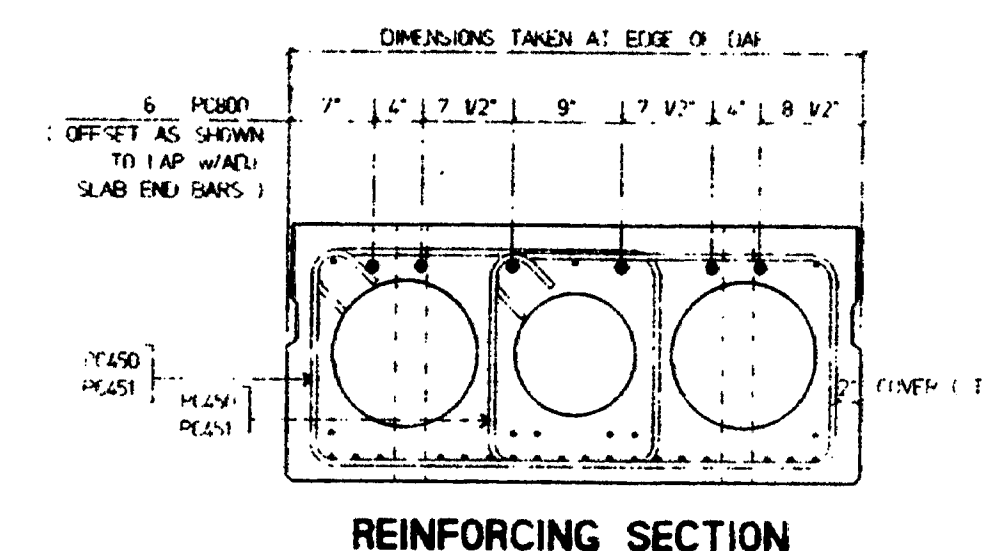
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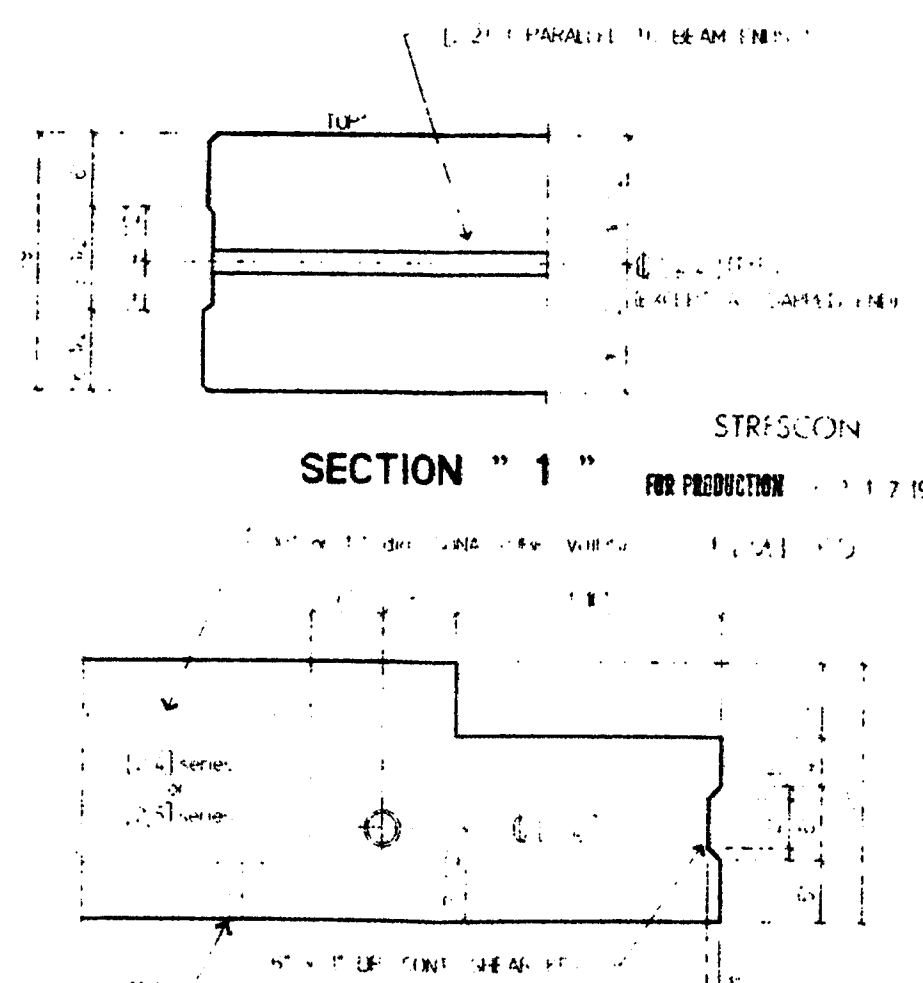
SECTION "A-A"



STRAND PATTERN / DE-TENSIONING SEQUENCE



REINFORCING SECTION



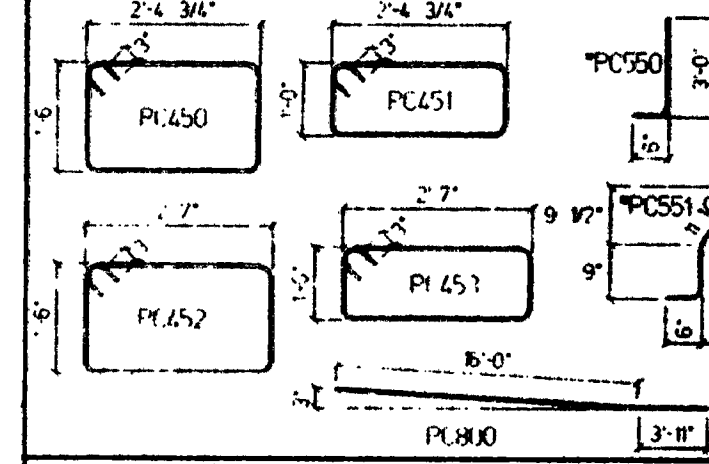
SECTION "1"

SECTION "2" 121-435

- DRAWING NOTES:**
- ALL CLEARANCES FOR REBAR TO BE 2" UNLESS NOTED OTHERWISE.
 - PRESTRESSING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND.
 - CONCRETE STRENGTH : AT RELEASE - 4000 psi
 - DE-TENSIONING OF PRESTRESSED CABLES : SEE DIAGRAM FOR SEQUENCE.
 - SURFACE OF SHEAR KEYS SHALL BE SANDBLASTED.
 - POST TENSIONING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND.
 - END FINISHES : ABUTMENT END - RECESS AND PATCH STRIPES & PAINT BEAM ENDS WITH BITUMINOUS PAINT (TYP).
 - TOP FINISH : ROUGHEN TO 1/4" AMPLITUDE (IN TRANSVERSE DIRECTION).
 - SEE FINISH : FORM SMOOTH (EXCEPT SHEAR KEY).
 - REINFORCING BARS TO BE NON-BODY COATED (ASTM A636 GRACE 60) UNLESS NOTED OTHERWISE.
 - * INDICATES EPOXY COATED REINFORCING.
 - BENDING DETAILS & HOOKS ON REINFORCING BARS AS PER ACI STANDARD 308.

REINFORCING SCHEDULE (PER PANEL)
BENDING DIMENSION SHOWN OUTSIDE OF REBAR

MARK	SIZE	SHAPE	QUANTITY	LENGTH	WEIGHT
PC450	#4	U	10	8'-9"	680
PC451	#4	D	2	7'-9"	62
PC452	#4	U	N/A	9'-2"	
PC453	#4	D	N/A	8'-2"	
PC800	#8	U	6	9'-11"	318
PC550	#5	N/A	1	7'-6"	
PC551	#5	N/A	2	2'-3"	
					1071 lbs



LAST IN HARDWARE LIST (PER PANEL)

MARK	QTY	DESCRIPTION
2-2	4	2' ID. PVC PIPE SLEEVE x 3'-0" V2"
2-3	2	2' ID. PVC PIPE SLEEVE x 1'-9" LG.
2-4	2	2' ID. SONA TUBE x 1'-6" LG.
2-5a	ONE	10" dia. SONA TUBE x 10'-0" LG.
2-5b	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5c	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5d	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5e	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5f	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5g	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5h	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5i	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5j	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5k	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5l	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5m	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5n	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5o	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5p	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5q	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5r	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5s	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5t	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5u	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5v	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5w	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5x	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5y	ONE	10" dia. SONA TUBE x 15'-0" LG.
2-5z	ONE	10" dia. SONA TUBE x 15'-0" LG.

REVISIONS

NO.	DATE	BY	REVISION
1	Feb. 6, 98	JMG	ISSUED FOR APPROVAL
2	Feb. 6, 98	JMG	RECORD COPY
3	Jan. 9, 98	GGG	ISSUED FOR APPROVAL



CUSTOMER
CPM CONSTRUCTORS
FREEPORT, MAINE

PROJECT
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CONTRACT NUMBER
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJECT
DILL BRIDGE
OVER SOUTH BRANCH SANDY RIVER
IN THE TOWN OF PHILLIPS - FRANKLIN COUNTY, MAINE

TITLE
VOIDED SLAB DETAILS VS-2

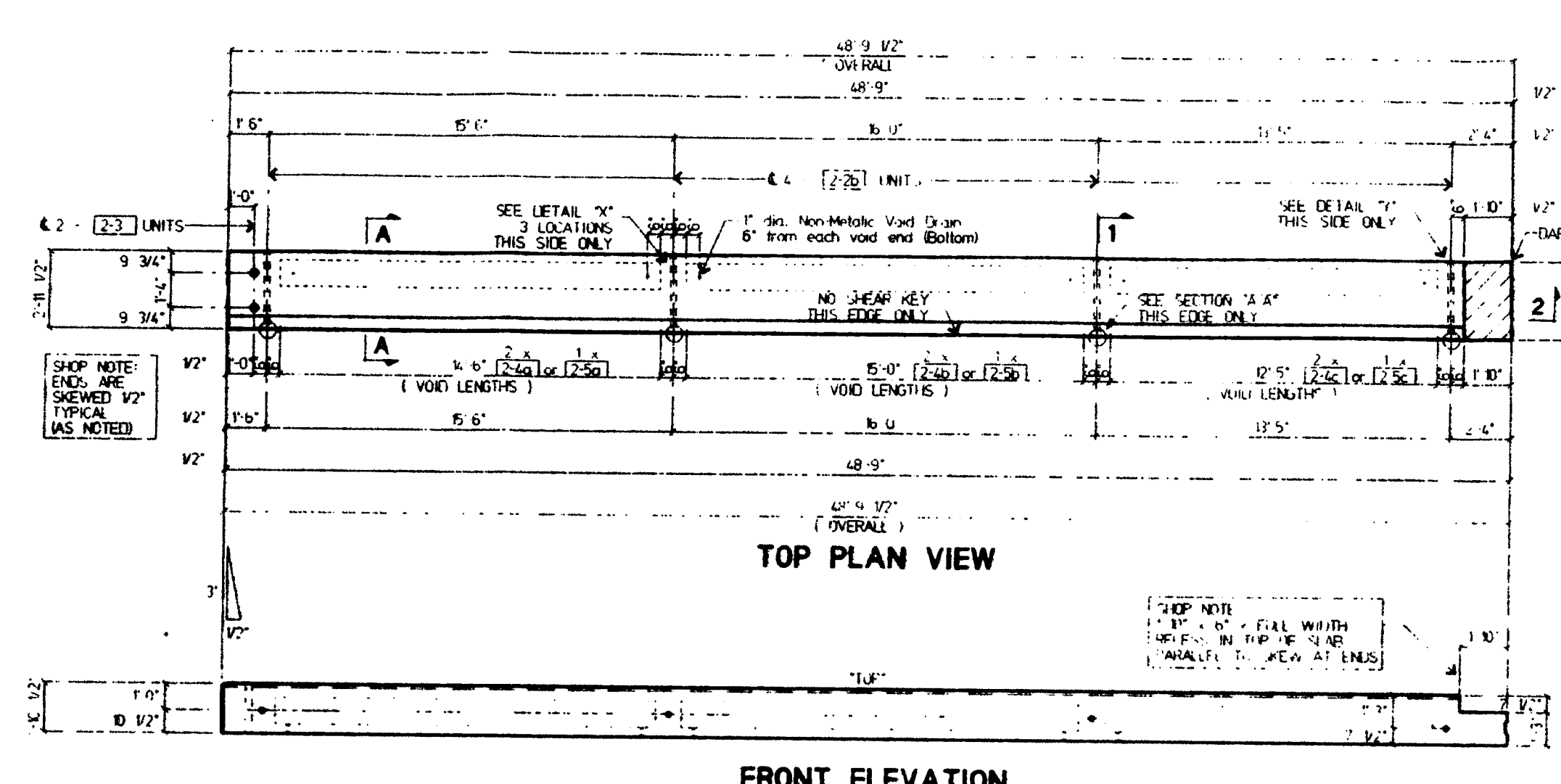
STRESCON LIMITED
SAINT JOHN, N.B.
BEDFORD, N.S.

REVISIONS

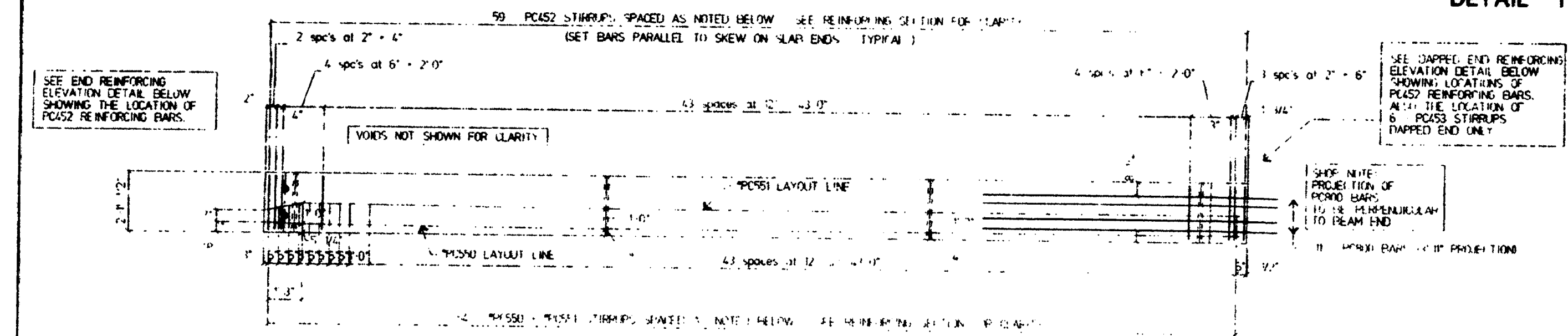
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REVISIONS

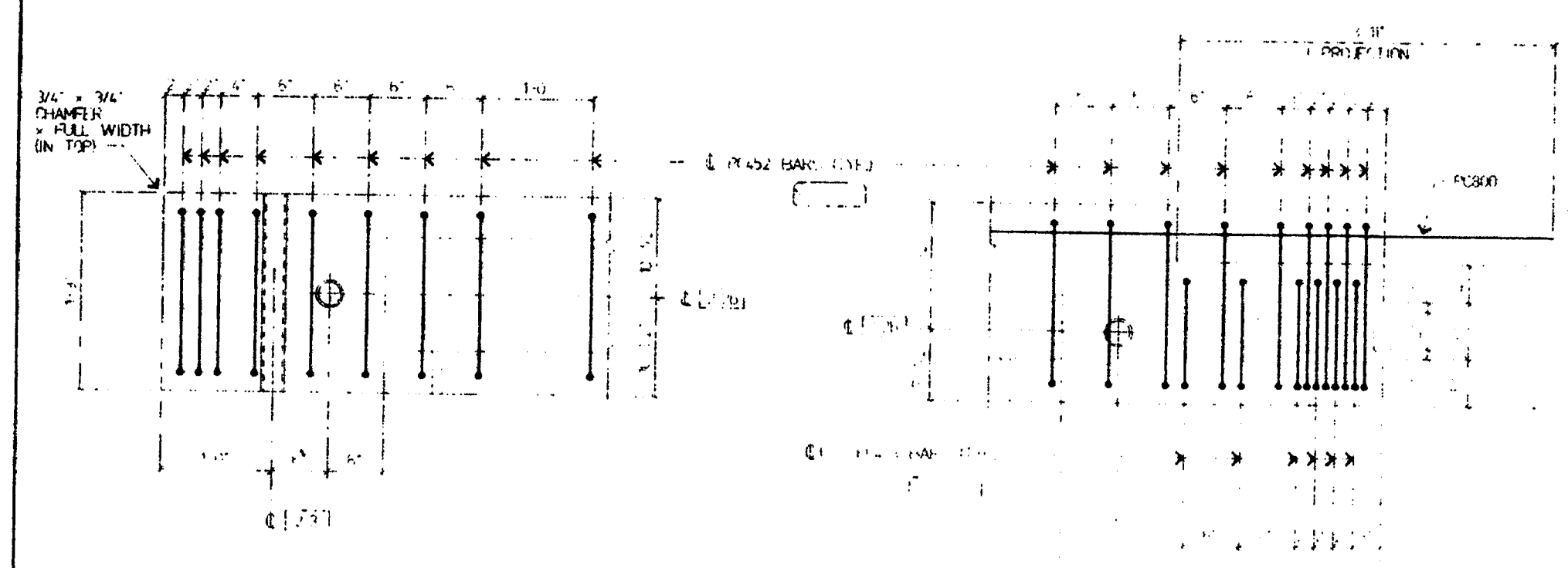
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3	Jan. 9, 98	GGG	ISSUED FOR APPROVAL



EXTERIOR VOIDED SLAB DETAIL VS-3 (ONE REQUIRED) WEIGHT = 31,400 lbs



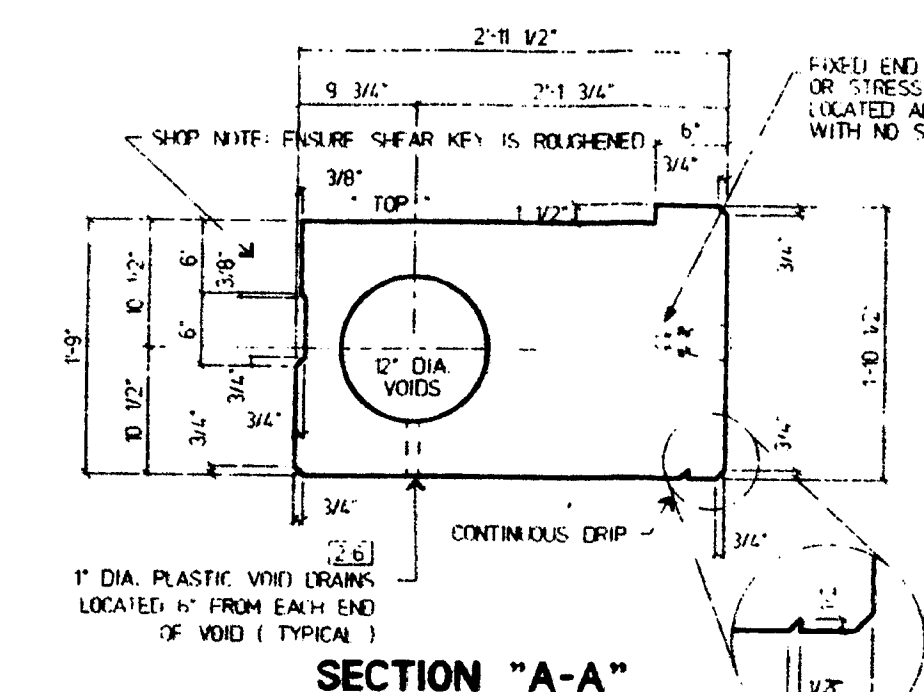
REINFORCING PLAN



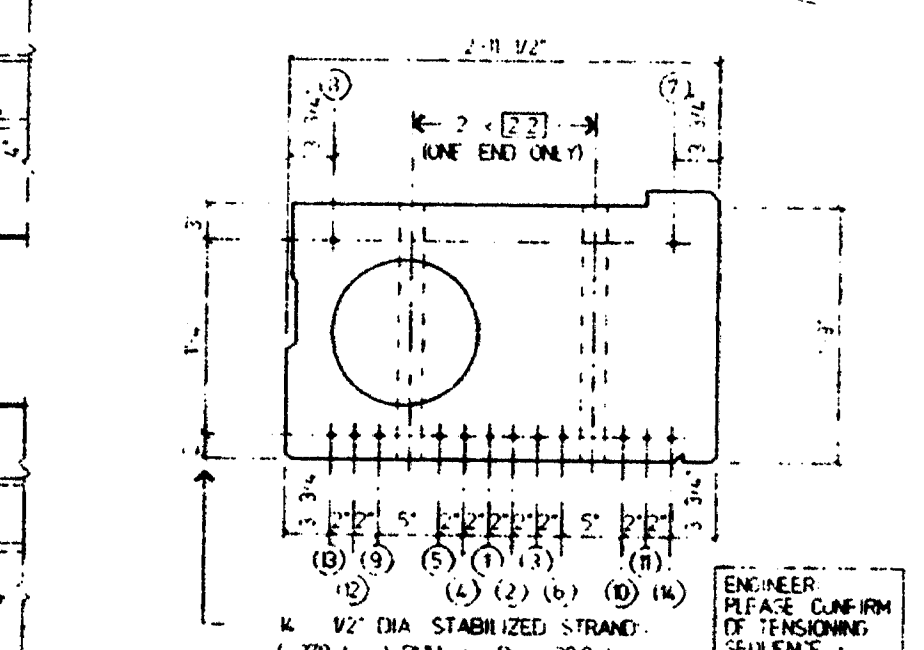
END ELEVATION DETAIL
(SHOWING REINFORCING)

DAPPED END ELEVATION DETAIL
(SHOWING REINFORCING)

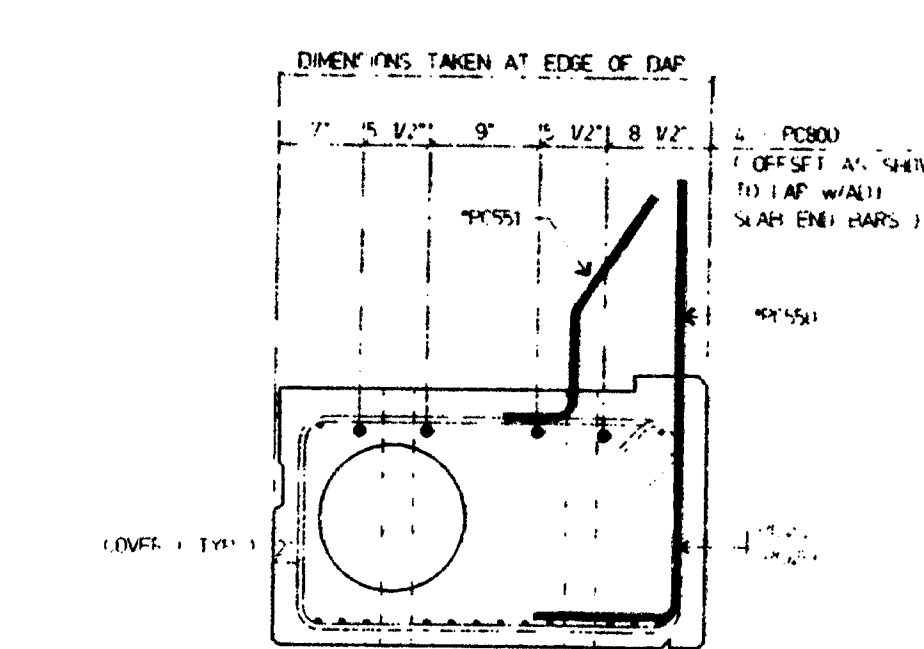
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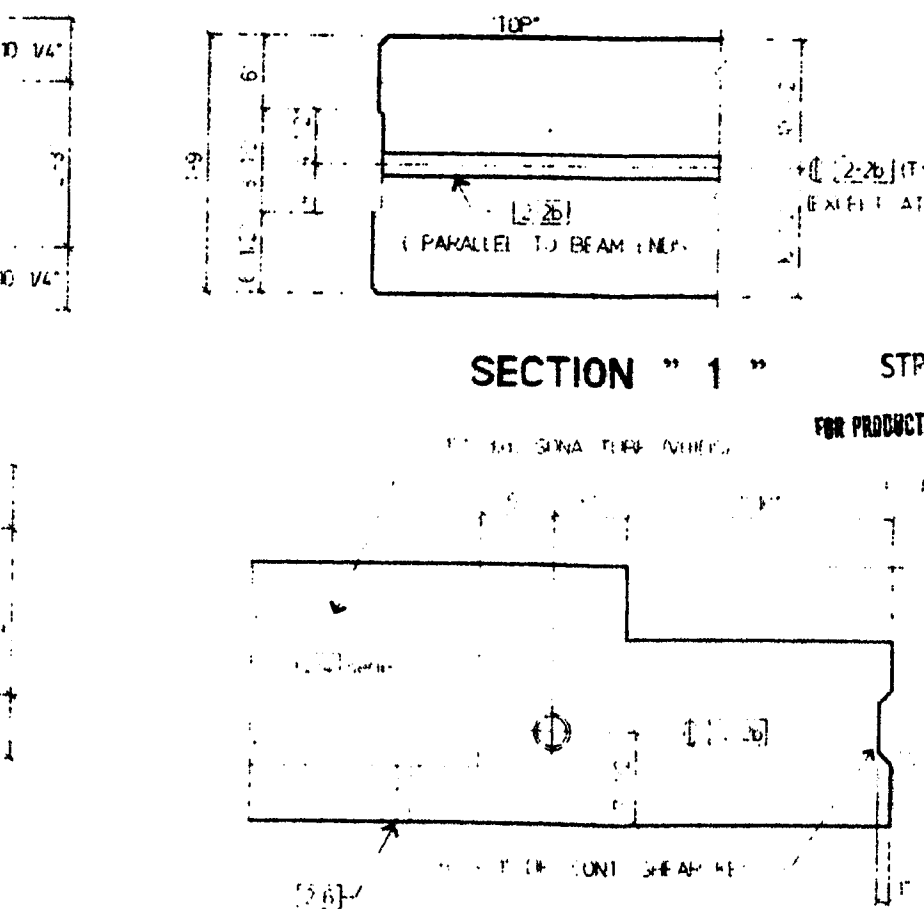
SECTION "A-A"



STRAND PATTERN / DE-TENSIONING SEQUENCE



REINFORCING SECTION



SECTION "1"

SECTION "2" 121-436

DRAWING NOTES:

- ALL CLEARANCES FOR REBAR TO BE 2" UNLESS NOTED OTHERWISE.
- PRESTRESSING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND WITH AN INITIAL TENSION PER CABLE OF 2000 LBS.
- CONCRETE STRENGTH - AT RELEASE - 4000 PSI AT 28 DAYS - 8000 PSI.
- DE-TENSIONING OF PRESTRESSED CABLES - SEE DIAGRAM FOR SEQUENCE.
- REINFORCING CABLES SHALL BE SANDBLASTED.
- POST-TENSIONING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND.
- END FINISHES - BOTTOM END - RECESS AND PATCH STRIPS & PAINT. BEAM ENDS WITH BUTYRUS PAINT (TYP). PER END - BURN OFF STRIPS & GRIND FLUSH W/BEAM ENDS.
- TOP FINISH - ROUGHEN TO 1/4" AMPLITUDE (IN TRANSVERSE DIRECTION).
- SIDE FINISH - FORM SMOOTH (EXCEPT SHEAR KEY).
- REINFORCING BARS TO BE NON-EPOXY COATED (ASTM A618 GRADE 60) UNLESS NOTED OTHERWISE.
- "X" INDICATES EPOXY COATED REINFORCING.
- BEARING DETAILS & HOOKS ON REINFORCING BARS AS PER ACT STANDARD 208.

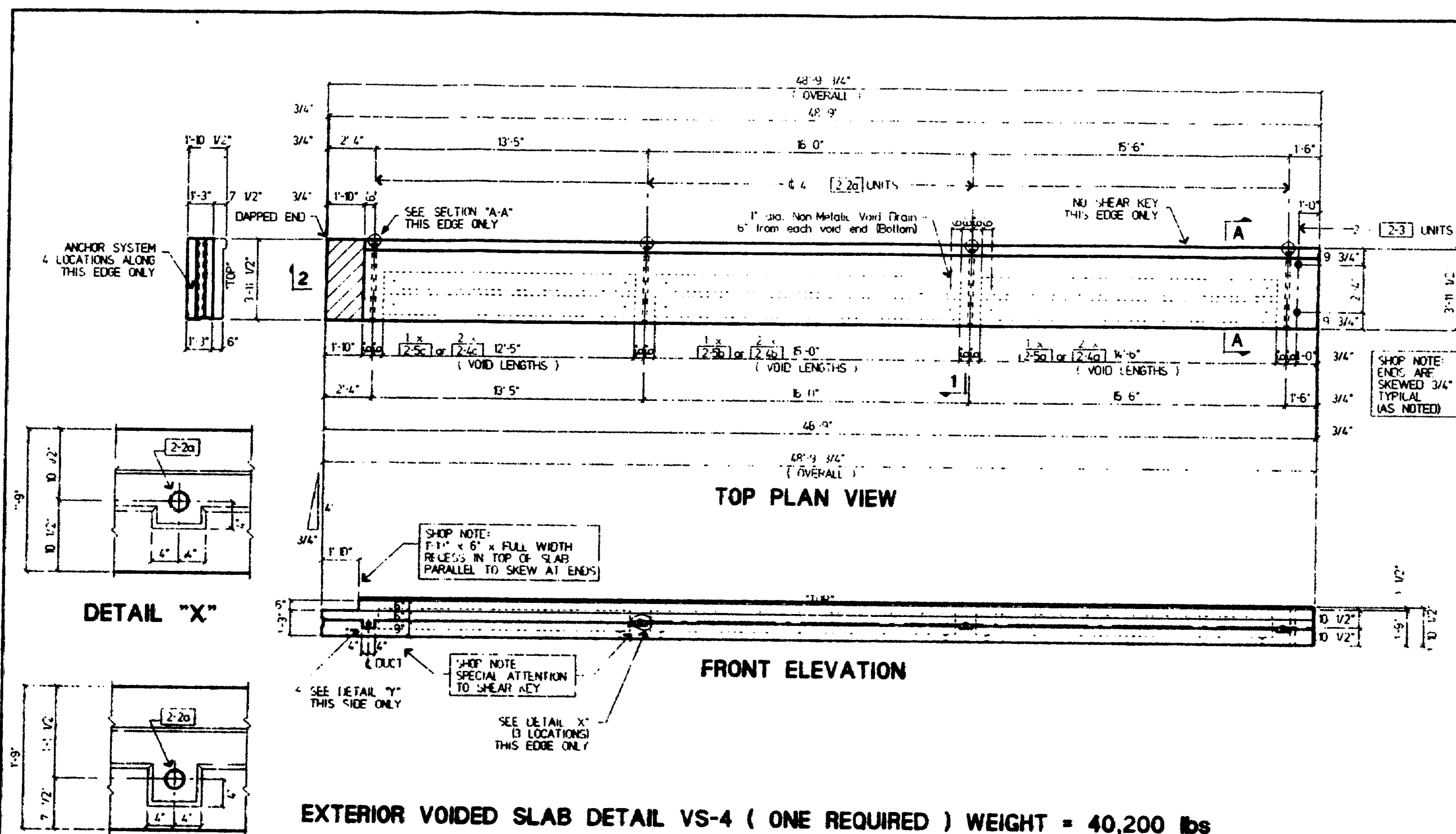
REINFORCING SCHEDULE (PER PANEL)

BENDING DIMENSION SHOWN OUT/OUT OF REBAR

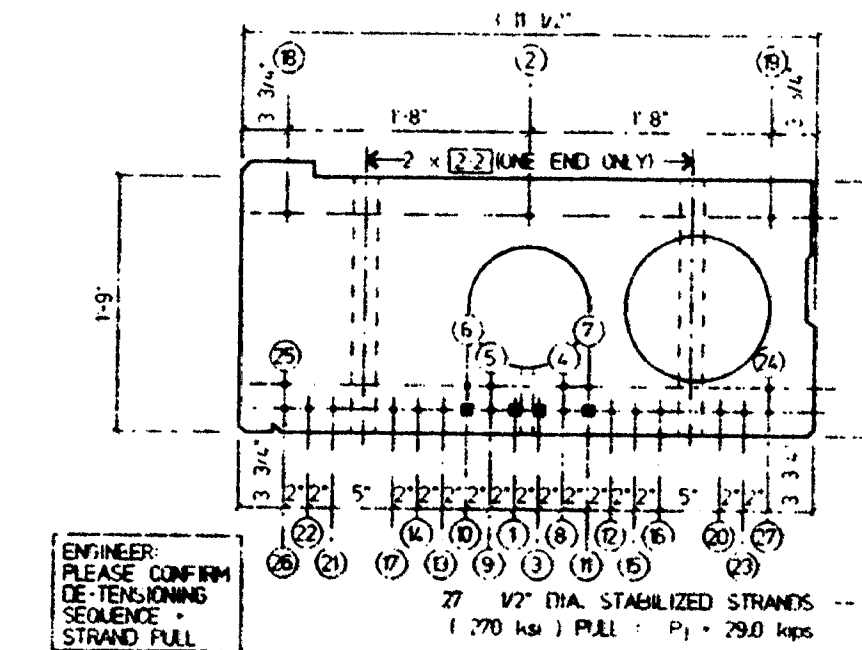
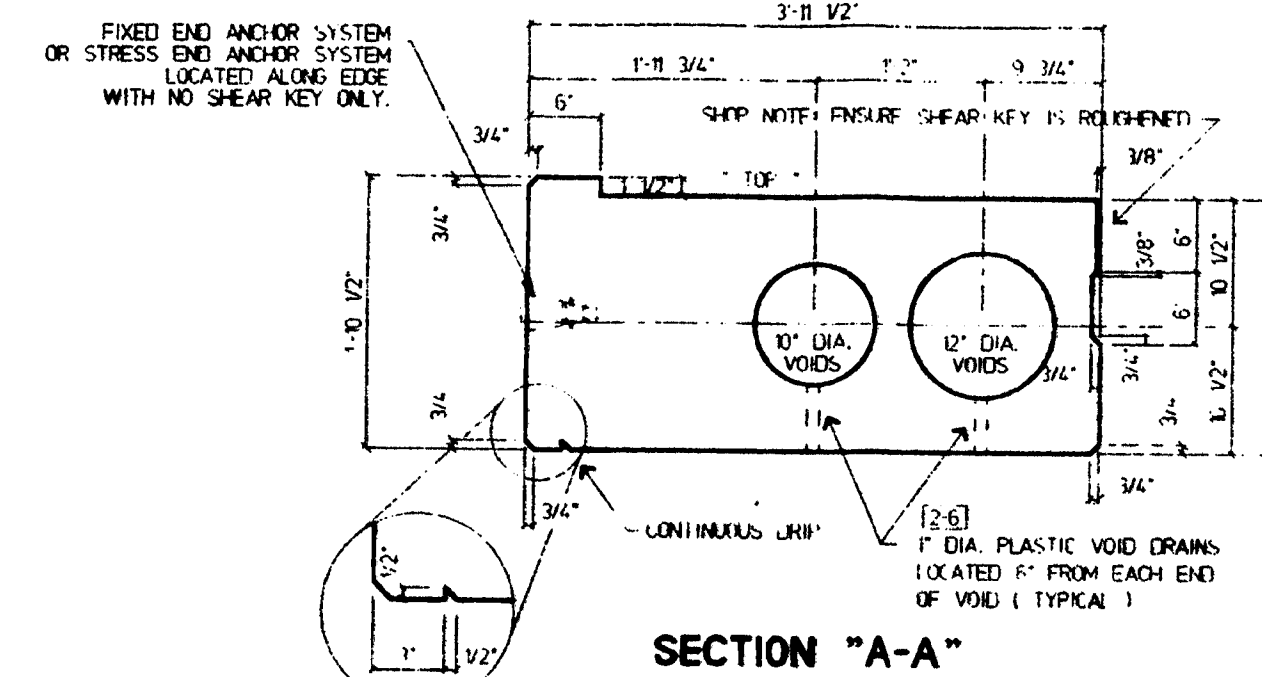
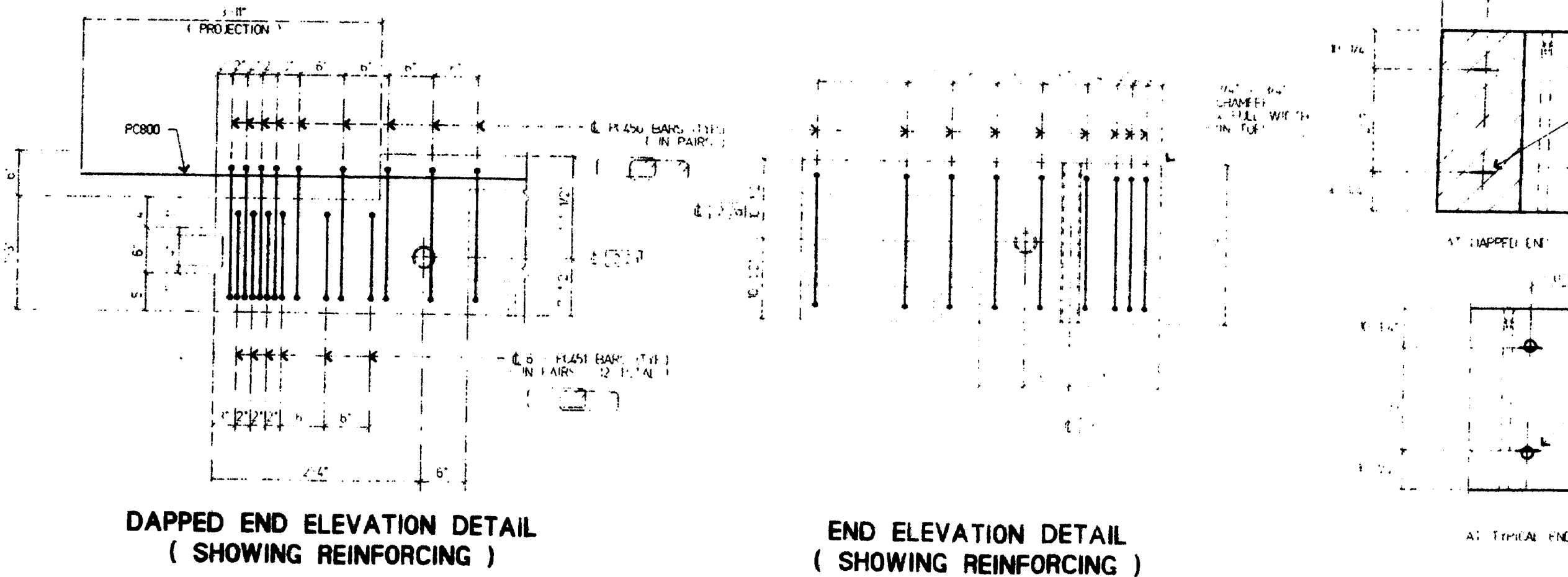
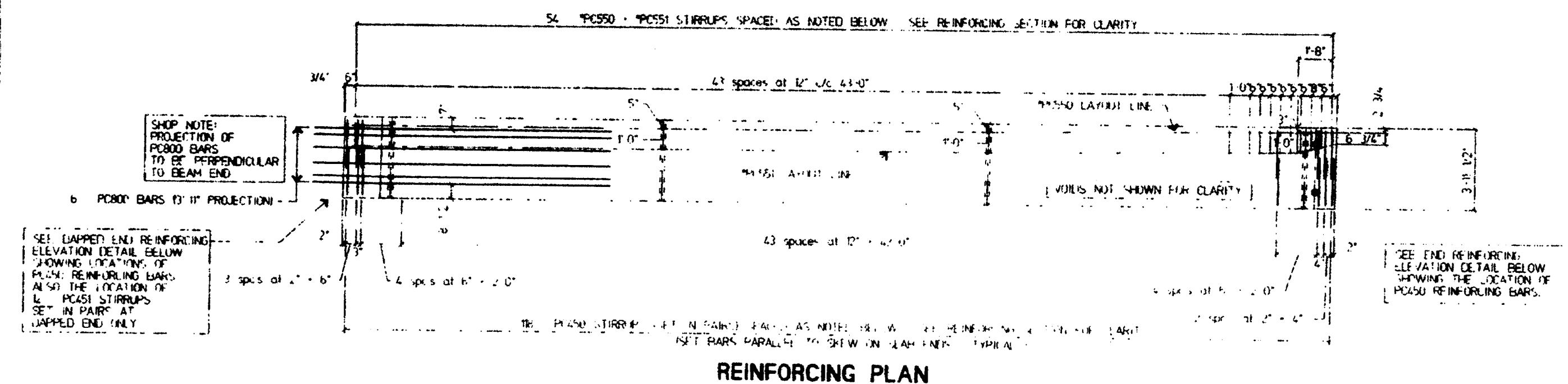
MARK	SIZE	SHAPE	QUANTITY	LENGTH	WEIGHT
PC450	N/A	N/A	8'-9"		
PC451	N/A	N/A	7'-9"		
PC452	N/A	N/A	59	9'-2"	361
PC453	N/A	N/A	6	8'-2"	33
PC800	N/A	N/A	4	19'-11"	20
PC550	N/A	N/A	54	3'-6"	197
PC551	N/A	N/A	54	2'-3"	127
					931 lbs

CAST-IN HARDWARE LIST (PER PANEL)

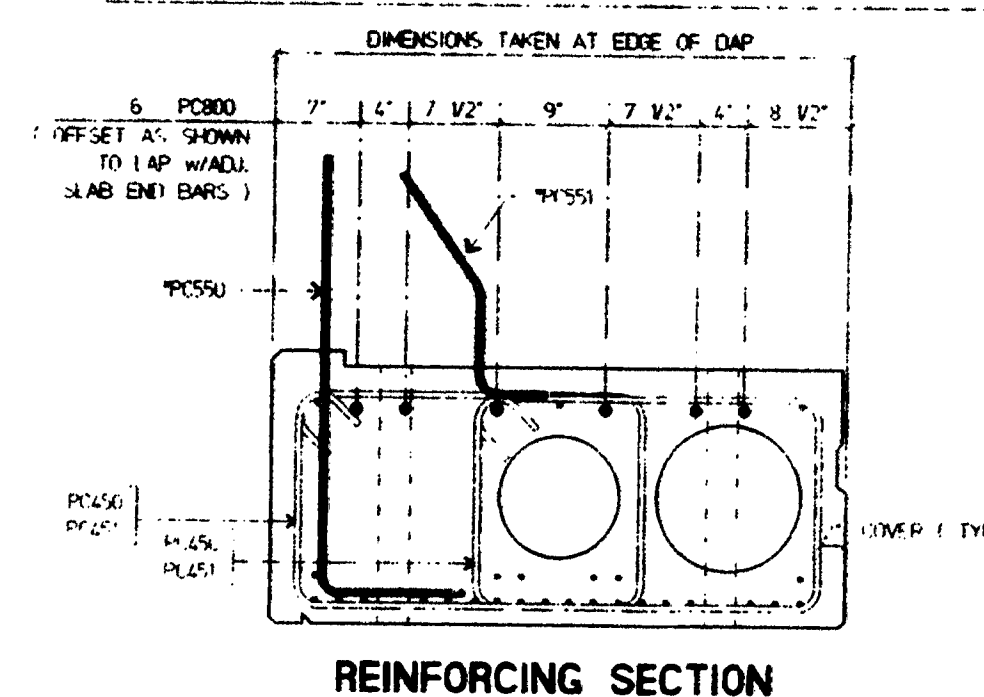
MARK	QTY	DESCRIPTION
2.2b	4	ASSEMBLY UNIT - 2 1/2" ID. PVC PIPE SLEEVE x 2'-5 1/2"
2.3	2	2" ID. PVC PIPE SLEEVE x 1'-9" LG.
2.4a	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4b	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4c	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4d	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4e	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4f	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4g	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4h	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4i	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4j	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4k	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4l	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4m	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4n	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4o	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4p	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4q	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4r	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4s	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4t	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4u	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4v	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4w	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4x	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4y	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4z	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4aa	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ab	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ac	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ad	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ae	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4af	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ag	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ah	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ai	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4aj	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ak	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4al	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4am	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4an	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ao	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ap	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4aq	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ar	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4as	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4at	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4au	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4av	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4aw	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ax	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ay	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4az	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ba	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bb	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bc	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bd	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4be	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bf	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bg	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bh	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bi	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bj	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bk	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bl	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bm	ONE	12" dia. SONA TUBE x 15'-6" LG.
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2.4bo	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bp	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bq	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4br	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bs	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bt	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bu	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bv	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bw	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4bx	ONE	12" dia. SONA TUBE x 15'-6" LG.
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2.4bz	ONE	12" dia. SONA TUBE x 15'-6" LG.
2.4ca	ONE	12" dia. SONA TUBE x 15'-6" LG.
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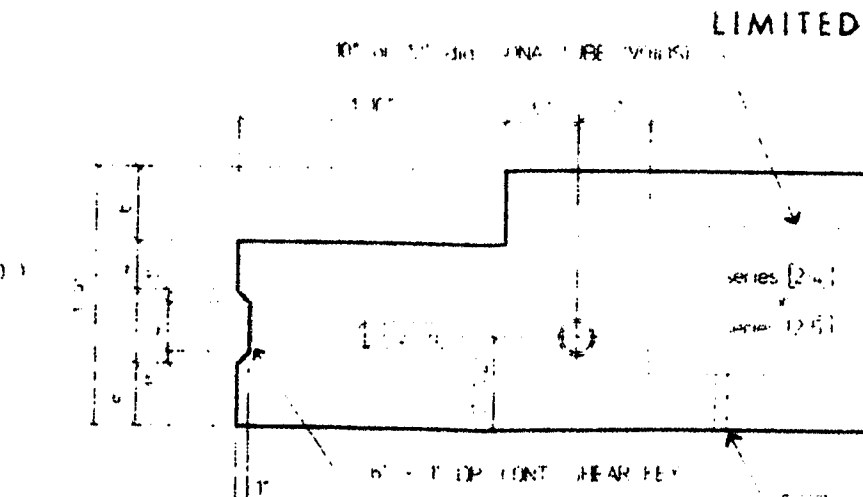
EXTERIOR VOIDED SLAB DETAIL VS-4 (ONE REQUIRED) WEIGHT = 40,200 lbs



LEGEND:
 • TYPICAL SYMBOL FOR PRESTRESSING WIRES
 ■ DEBOND STRANDS FOR 5'-0" FROM EACH END



SECTION " 1 " FOR PRODUCTION FEB 17 1998 LIMITED

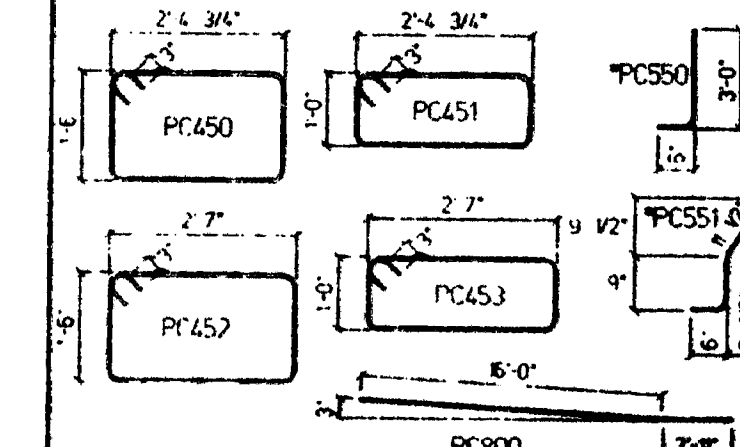


- DRAWING NOTES:**
1. ALL CLEARANCES FOR REBAR TO BE 2" UNLESS NOTED OTHERWISE.
 2. PRESTRESSING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND WITH AN INITIAL TENSION PER LABEL OF 290 kips.
 3. CONCRETE STRENGTH AT RELEASE = 4000 psi AT 28 DAYS = 6000 psi.
 4. DETENSIONING OF PRESTRESSING CABLES - SEE DIAGRAM FOR SEQUENCE.
 5. SURFACE OF SHEAR KEYS SHALL BE SANDBLASTED.
 6. POST-TENSIONING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND.
 7. END FINISHES: REINFORCEMENT END - RECESS AND PATCH STRANDS & PAINT SEAM ENDS WITH BITUMINOUS PAINT (TOP). PER END - BURN OFF STRANDS & GRIND FLUSH W/BEAM END.
 8. TOP FINISH: ROUGHEN TO 1/4" AMPLITUDE (IN TRANSVERSE DIRECTION).
 9. SIDE FINISH: FORM SMOOTH (EXCEPT SHEAR KEY).
 10. REINFORCING BARS TO BE NON-EPOXY COATED (ASTM A636 GRADE 60) UNLESS NOTED OTHERWISE.
 11. * INDICATES EPOXY COATED REINFORCING.
 12. BONDING DETAILS & HOOKS ON REINFORCING BARS AS PER ACI STANDARD 308.

REINFORCING SCHEDULE (PER PANEL)

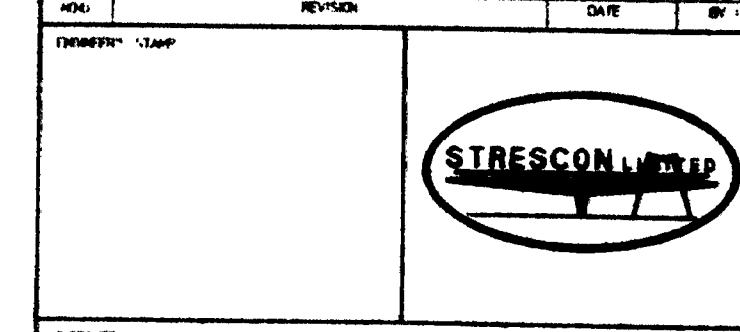
BENDING DIMENSION SHOWN OUT/OUT OF REBAR

MARK	SIZE	SHAPE	QUANTITY	LENGTH	WEIGHT
PC450	#4	U	18	8'-9"	980
PC451	#4	U	12	7'-9"	62
PC452	#4	U	N/A	9'-2"	-
PC453	#4	U	N/A	8'-2"	-
PC800	#6	U	6	15'-11"	37
PC550	#5	U	54	3'-6"	877
PC551	#5	U	54	2'-3"	127
					1395 lbs



MARK	QTY	DESCRIPTION
2.20	1	ASSEMBLY UNIT - 2" DIA. PVC DUCT x 3'-5" LG.
2.3	1	2" DIA. PVC PIPE SLEEVE x 1'-0" LG.
2.40	ONE	12" dia. SONA TUBE x 14'-6" LG.
2.50	ONE	12" dia. SONA TUBE x 14'-6" LG.
2.60	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.70	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.80	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.90	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.95	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.96	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.97	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.98	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.99	ONE	12" dia. SONA TUBE x 15'-0" LG.
2.100	ONE	12" dia. SONA TUBE x 15'-0" LG.
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2.200	ONE	12" dia. SONA TUBE x 15'-0" LG.

REVISION	DATE	BY	CHKD
1	FEB 17 1998	JMG	JMG
2	FEB 17 1998	JMG	JMG
3	FEB 17 1998	JMG	JMG



CPM CONSTRUCTORS
FREEPORT, MAINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

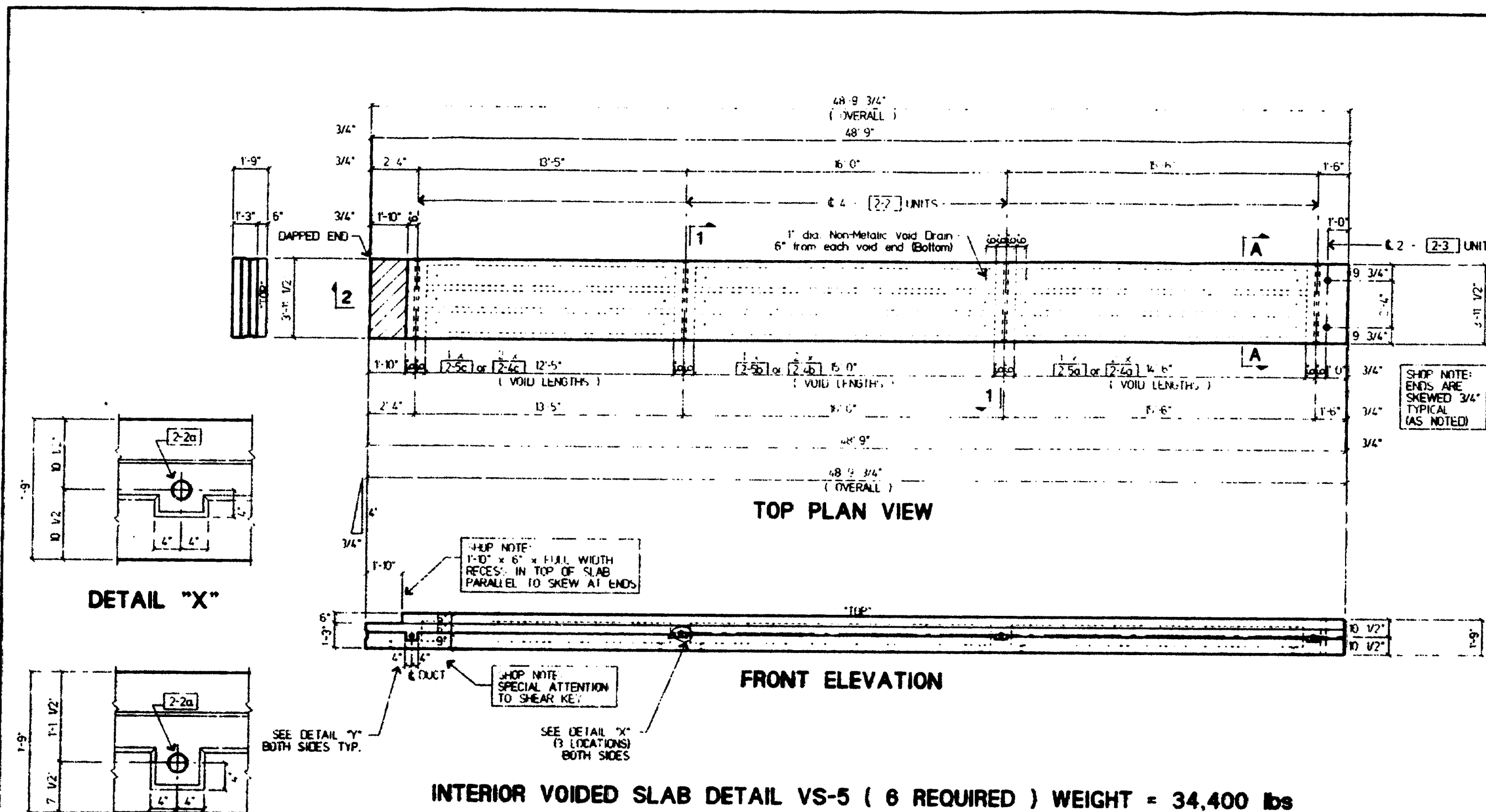
DILL BRIDGE
OVER SOUTH BRANCH SANDY RIVER
IN THE TOWN OF PHILLIPS - FRANKLIN COUNTY, MAINE

VOIDED SLAB DETAILS VS-4

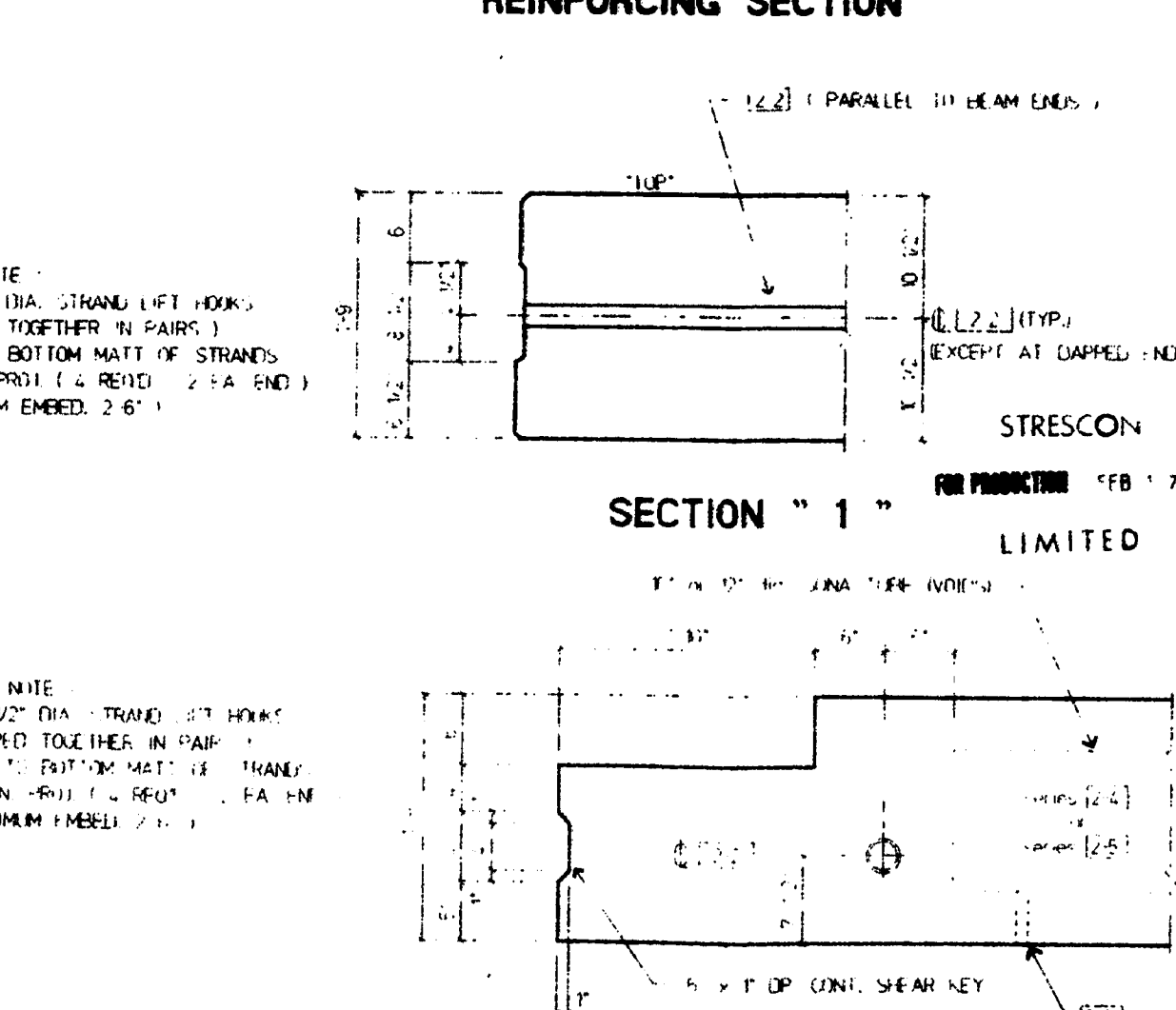
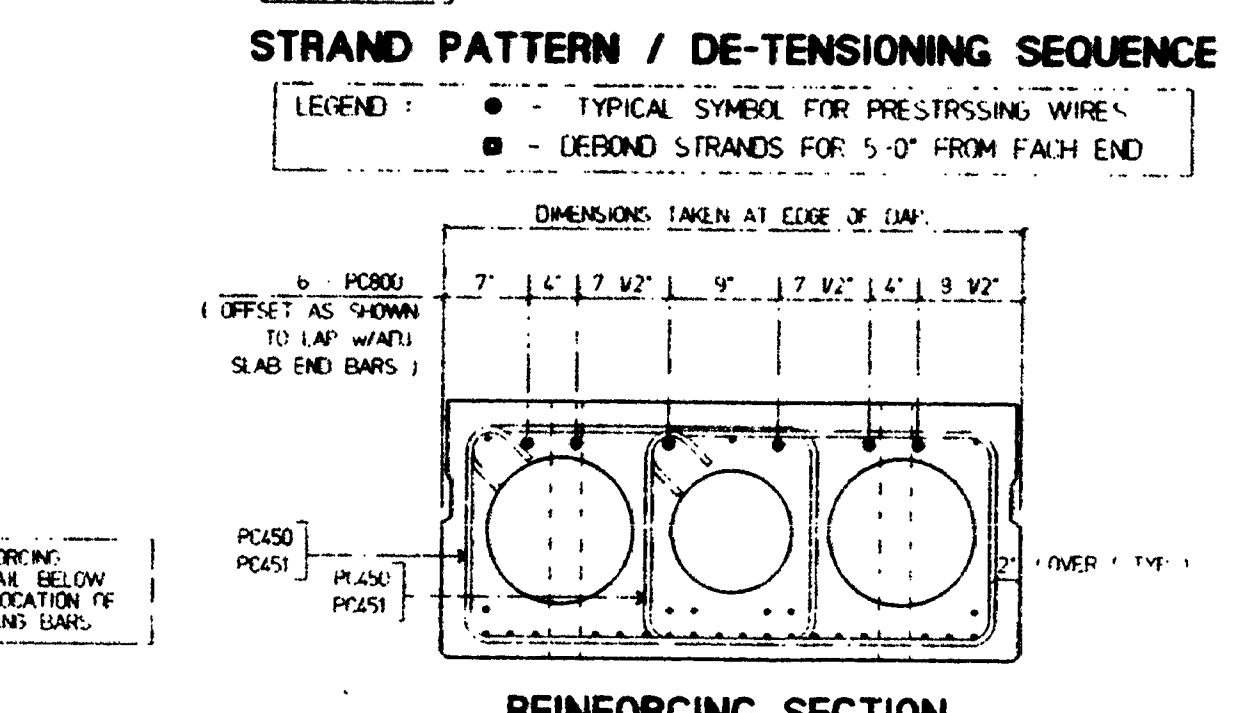
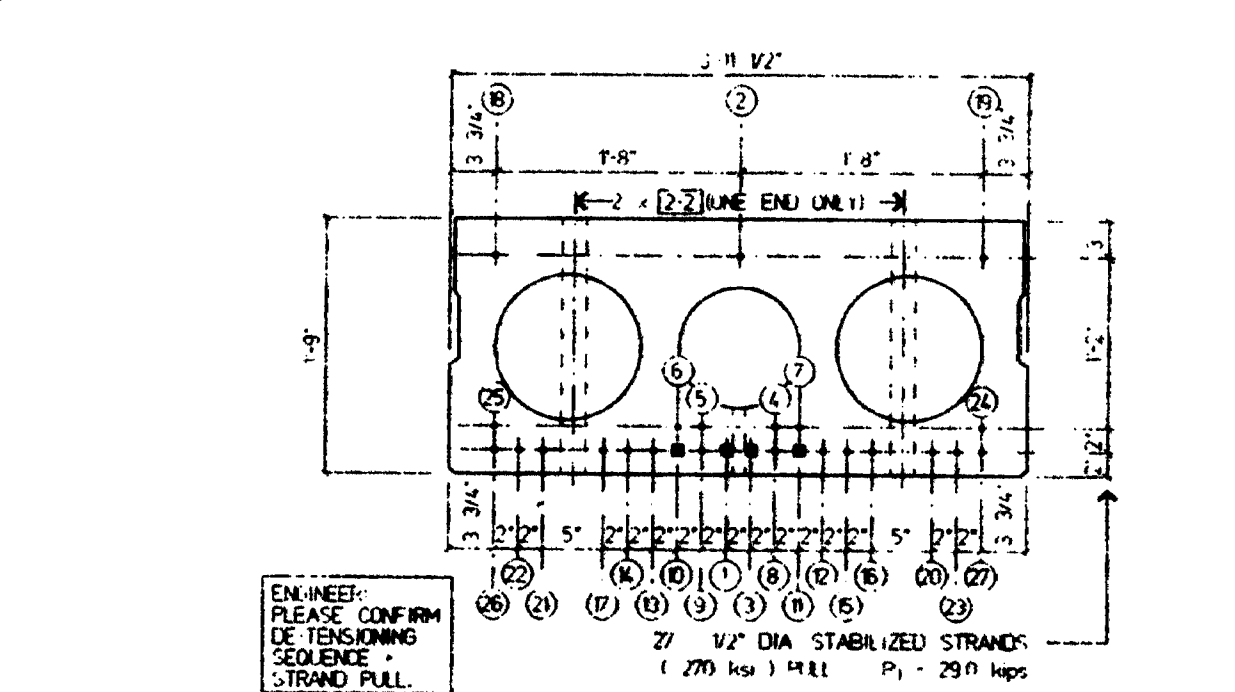
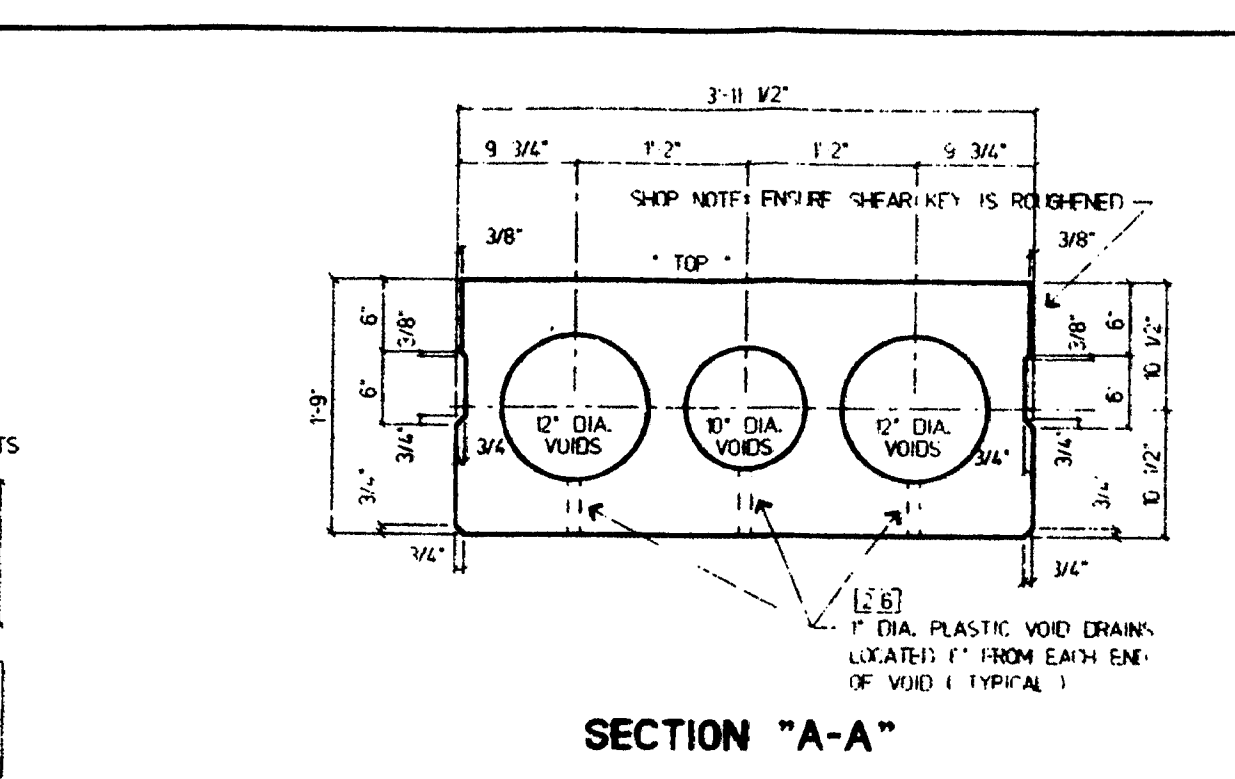
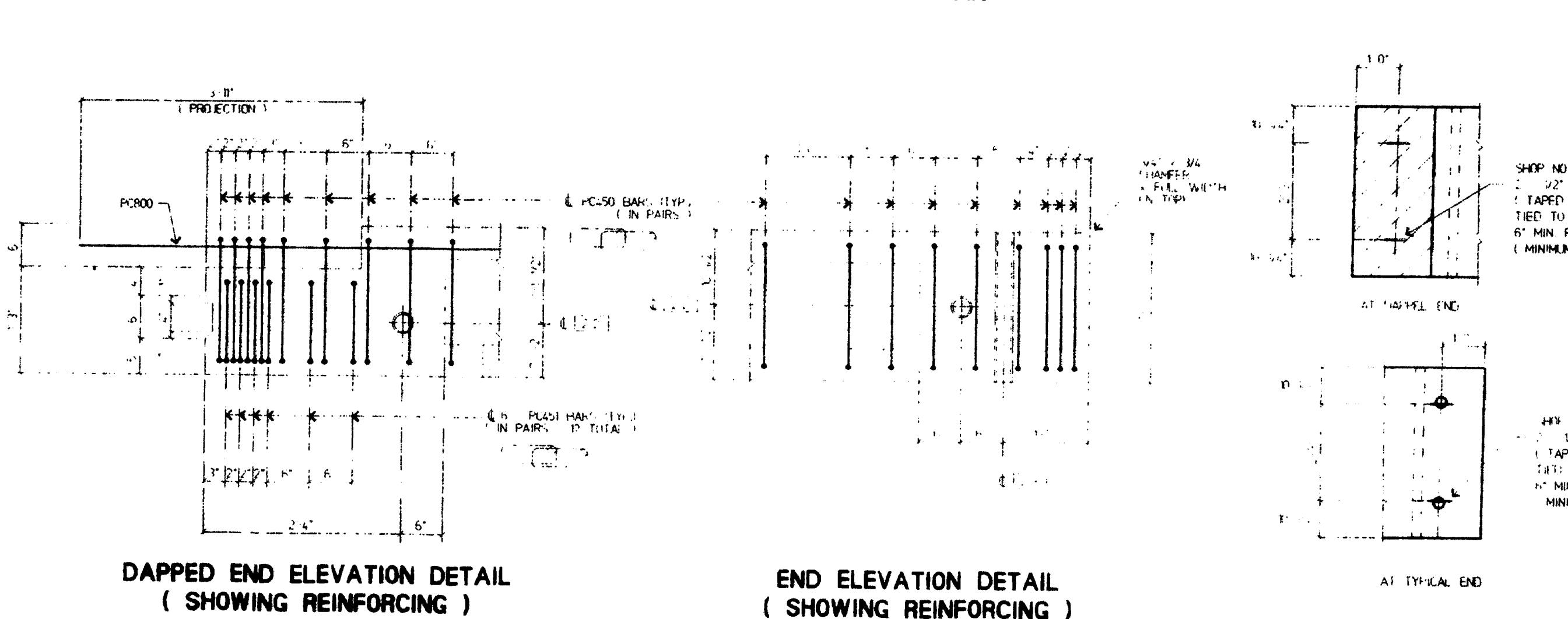
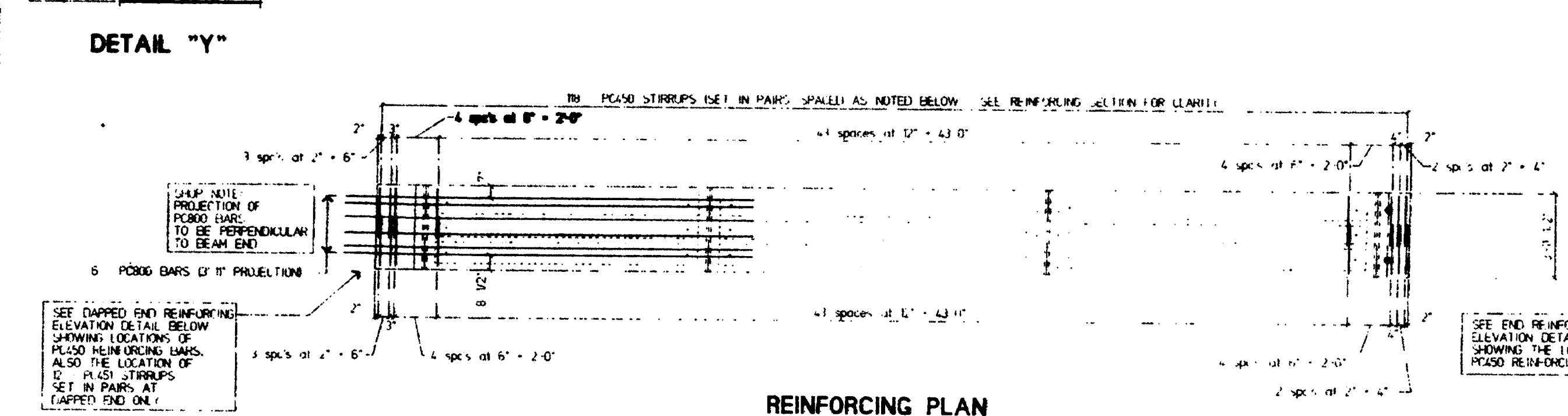
STRESCON LIMITED
SAINT JOHN, N.B. BEDFORD, N.S.

DATE	BY	CHKD
Jan. 9, 98	GREG	GREG
2010	GREG	GREG
VS-4	GREG	GREG

SECTION " 2 " 121-437



INTERIOR VOIDED SLAB DETAIL VS-5 (6 REQUIRED) WEIGHT = 34,400 lbs



DRAWING NOTES :

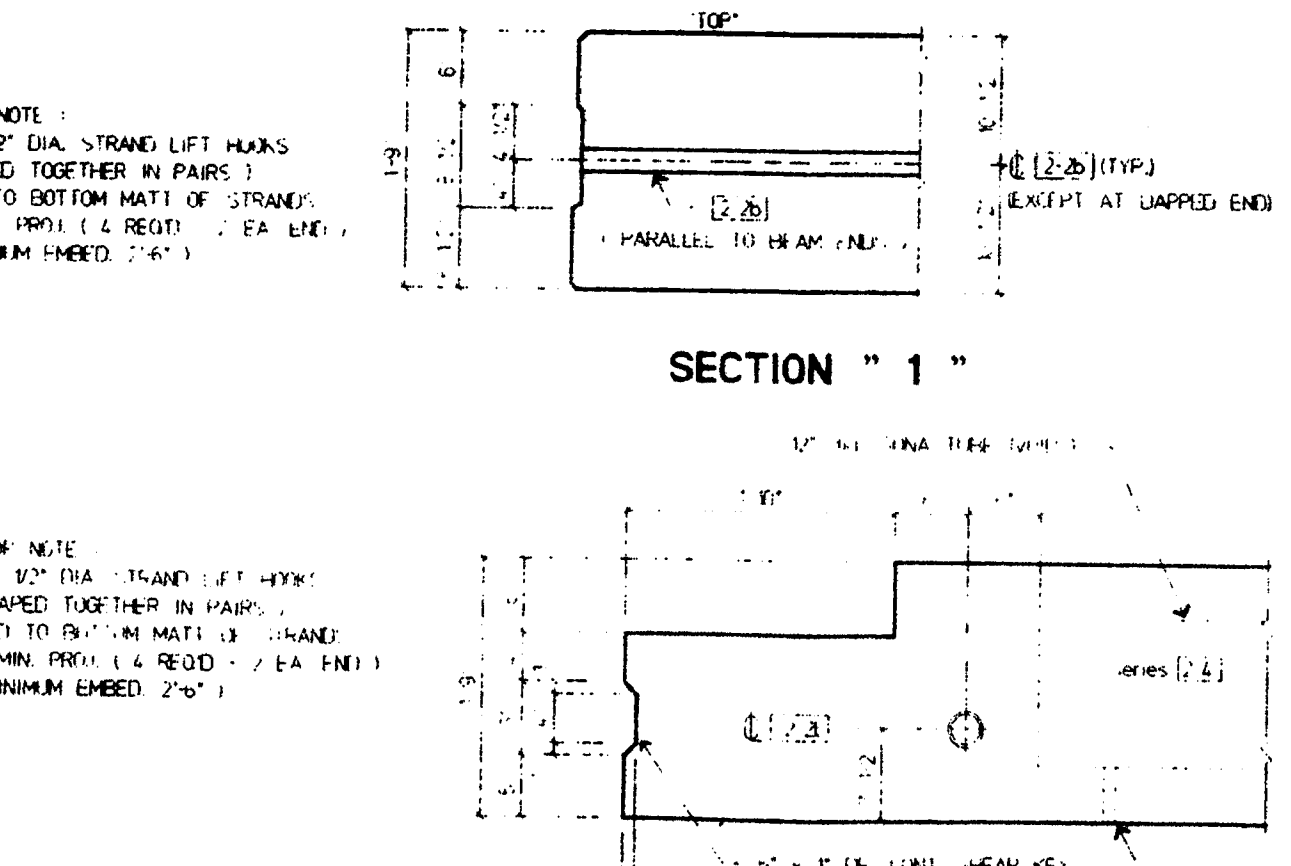
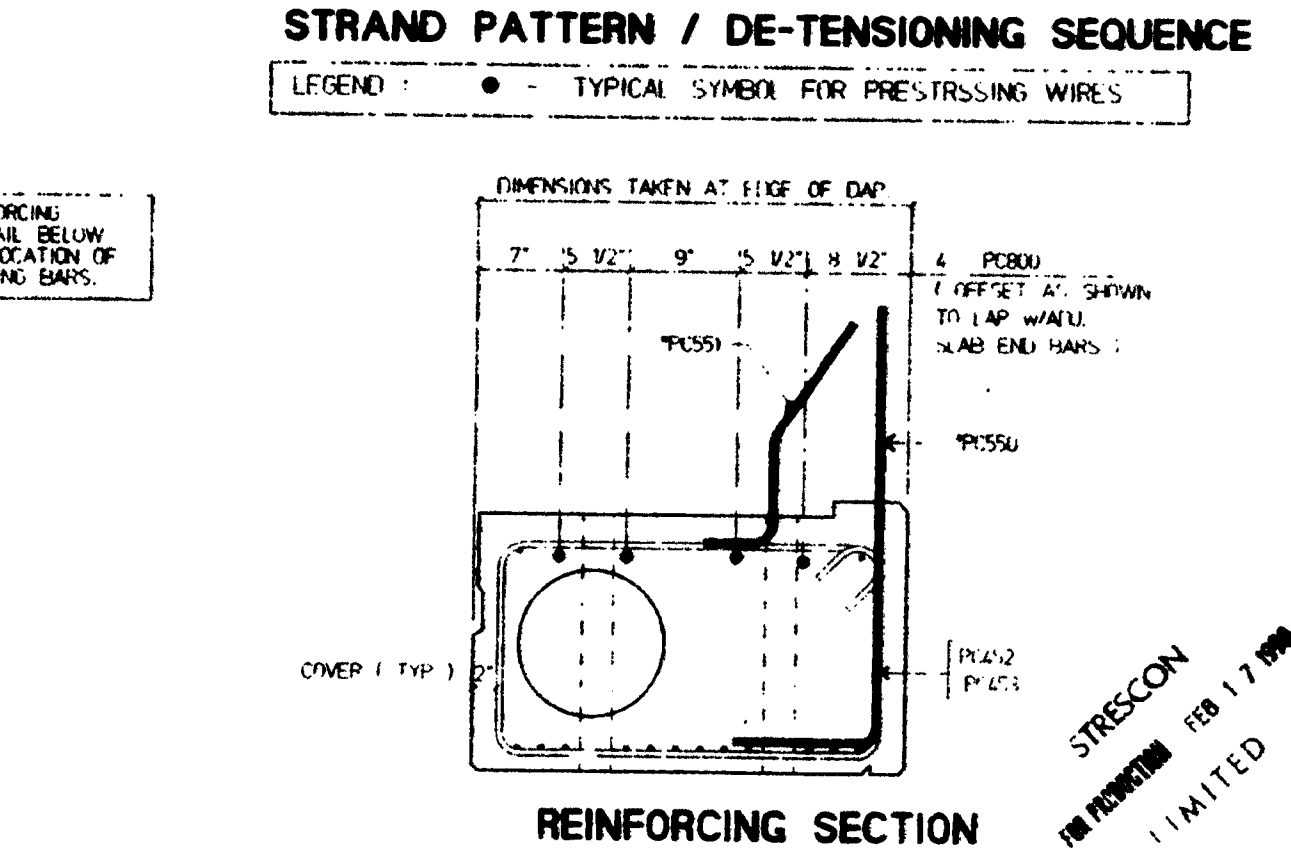
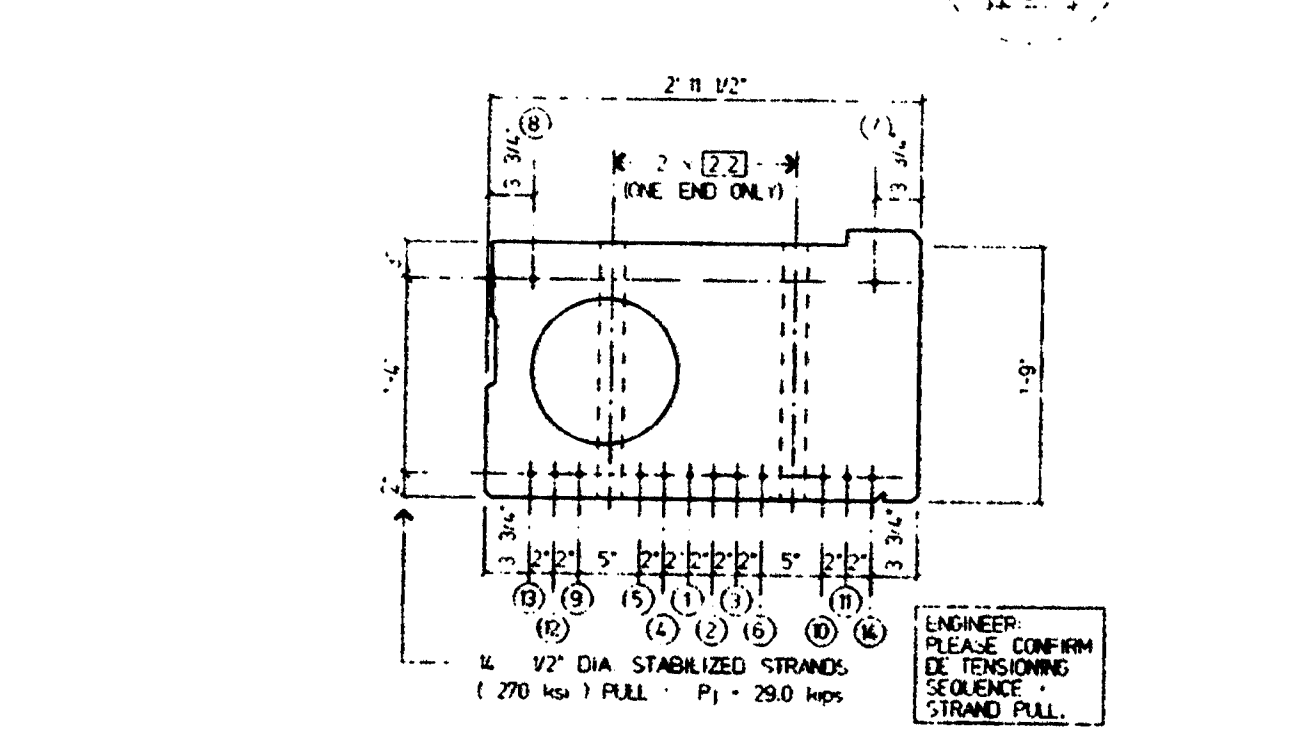
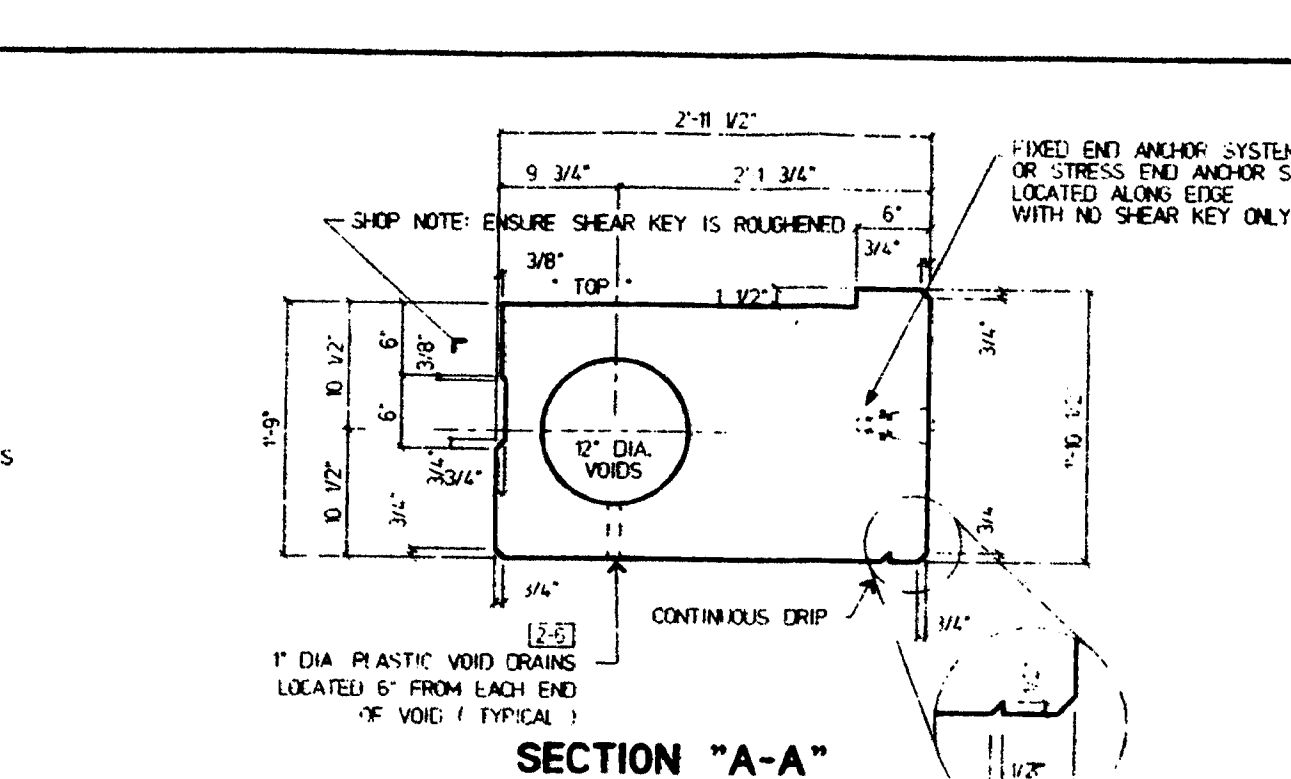
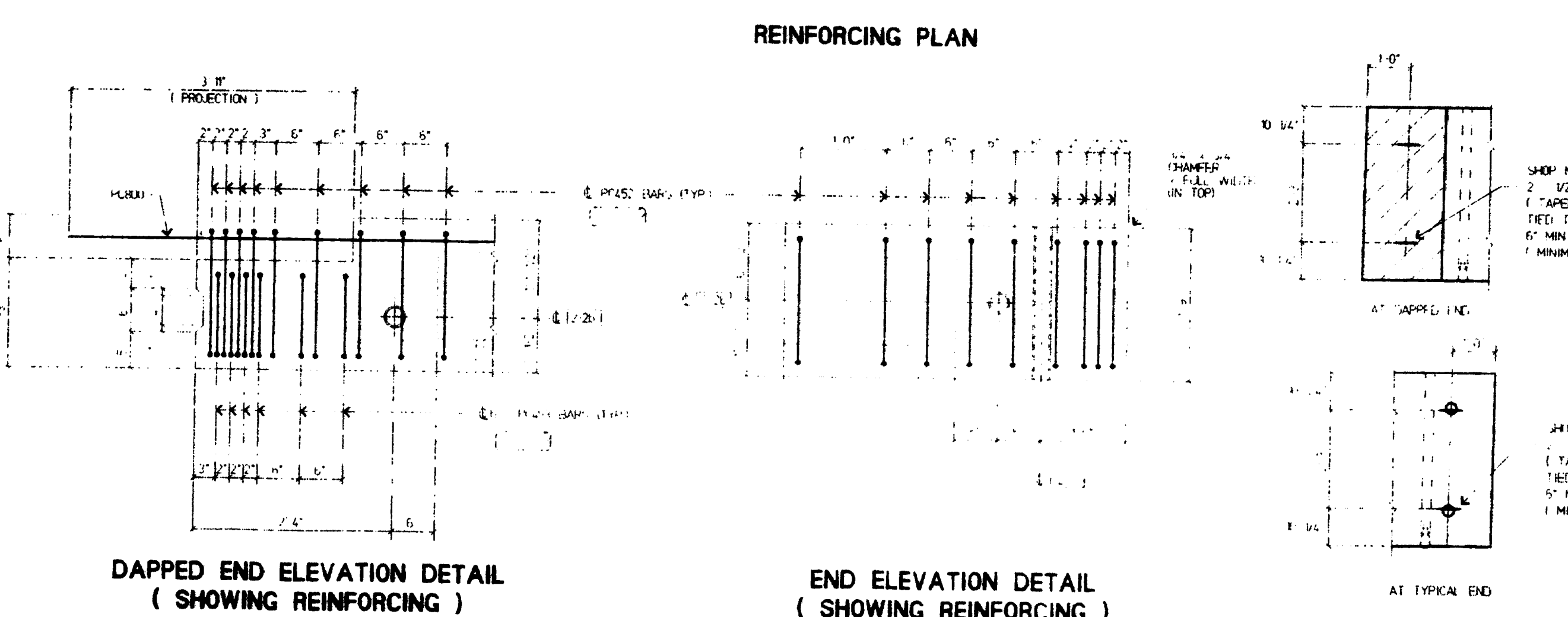
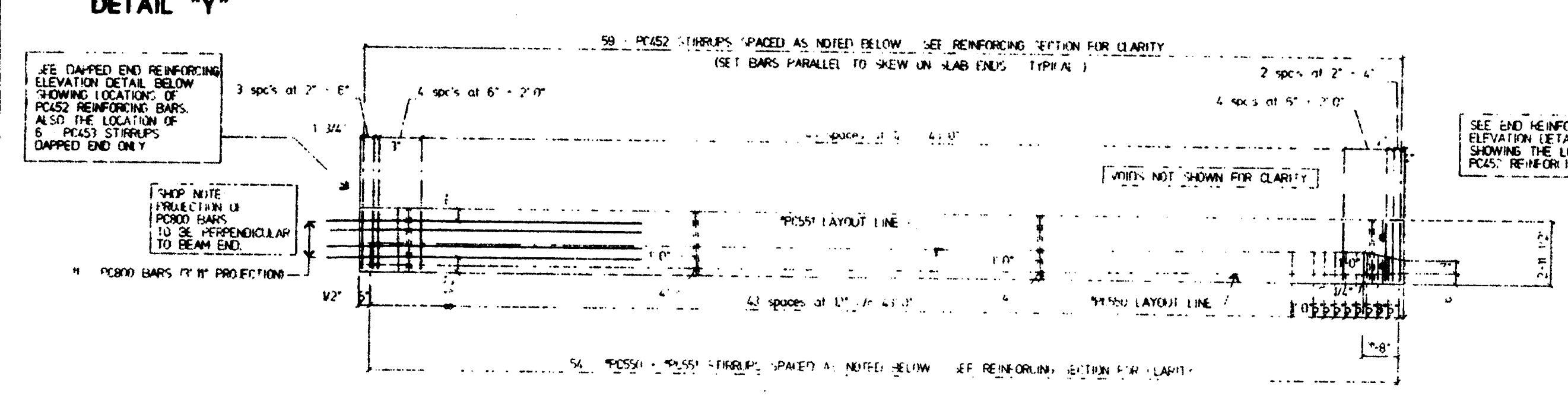
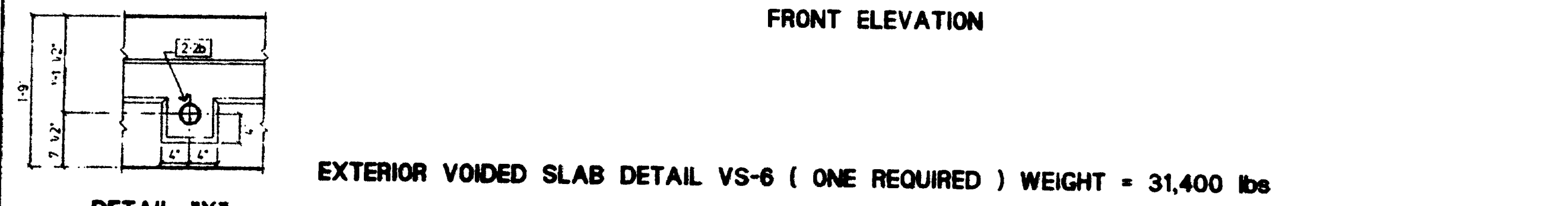
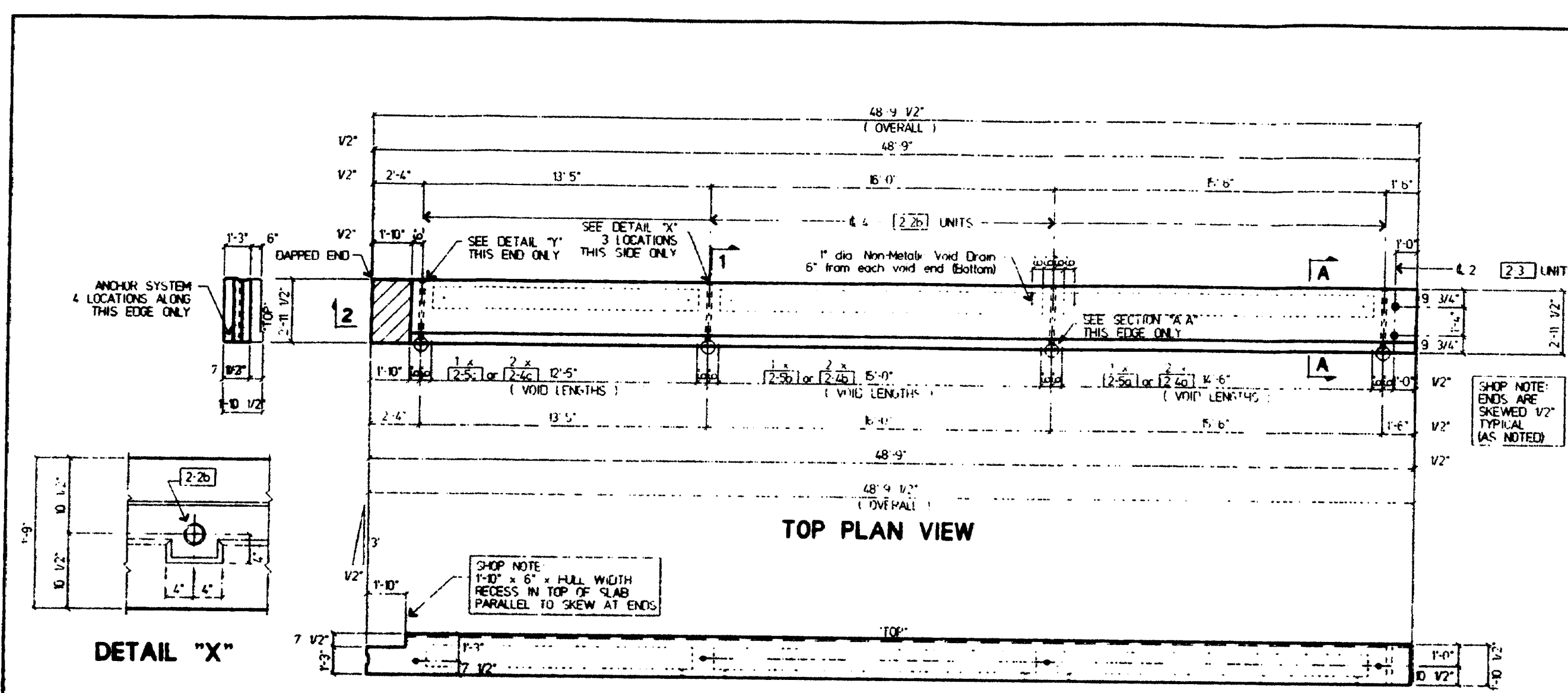
- ALL CLEARANCES FOR REBAR TO BE 2" UNLESS NOTED OTHERWISE.
- PRESTRESSING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND WITH AN INITIAL TENSION PER CABLE OF 250 kips.
- CONCRETE STRENGTH : AT RELEASE - 4000 psi AT 28 DAYS - 6000 psi
- DE-TENSIONING OF PRESTRESSED CABLES : SEE DIAGRAM FOR SEQUENCE. SURFACE OF SHEAR KEYS SHALL BE SANDBLASTED.
- POST-TENSIONING CABLES TO BE 1/2" DIA. (270 ksi) STABILIZED STRAND.
- END FINISHES : ABUTMENT END - RECESS AND PATCH STRANDS & PAINT BEAM ENDS WITH BITUMINOUS PAINT (TYP). PIER END - BURN OFF STRANDS & GRIND FLUSH W/BEAM ENDS.
- TOP FINISH : ROUGHEN TO 1/4" AMPLITUDE (IN TRANSVERSE DIRECTION).
- SIDE FINISH : FORM SMOOTH (EXCEPT SHEAR KEYS).
- REINFORCING BARS TO BE NON-EPOXY COATED (ASTM A636 GRADE 60) UNLESS INDICATED OTHERWISE.
- INDICATES EPOXY COATED REINFORCING.
- BENDING DETAILS & HOOKS ON REINFORCING BARS AS PER ASTM STANDARD 308.

REINFORCING SCHEDULE (PER PANEL)

MARK	SIZE	SHAPE	QUANTITY	LENGTH	WEIGHT
PC450	#4	1B	18	8'-9"	680
PC451	#4	1D	12	7'-9"	62
PC452	#4	N/A	N/A	9'-2"	-
PC453	#4	N/A	N/A <td 8'-2"	-	
PC800	#8	6	18'-11"	380	
PC550	#5	N/A	3'-6"	-	
PC551	#5	N/A	2'-3"	-	
				1071 lbs	

CAST-IN HARDWARE LIST (PER PANEL)

MARK	QTY	DESCRIPTION
2-2	4	2" DIA. PVC DUCT x 3'-10" LG.
2-3	2	2" DIA. PVC PIPE SLEEVE x 1'-9" LG.
2-4a	2	12" dia. SONA TUBE x 14'-6" LG.
2-4b	2	12" dia. SONA TUBE x 14'-6" LG.
2-4c	2	12" dia. SONA TUBE x 14'-6" LG.
2-4d	2	12" dia. SONA TUBE x 14'-6" LG.
2-4e	2	12" dia. SONA TUBE x 14'-6" LG.
2-4f	2	12" dia. SONA TUBE x 14'-6" LG.
2-4g	2	12" dia. SONA TUBE x 14'-6" LG.
2-4h	2	12" dia. SONA TUBE x 14'-6" LG.
2-4i	2	12" dia. SONA TUBE x 14'-6" LG.
2-4j	2	12" dia. SONA TUBE x 14'-6" LG.
2-4k	2	12" dia. SONA TUBE x 14'-6" LG.
2-4l	2	12" dia. SONA TUBE x 14'-6" LG.
2-4m	2	12" dia. SONA TUBE x 14'-6" LG.
2-4n	2	12" dia. SONA TUBE x 14'-6" LG.
2-4o	2	12" dia. SONA TUBE x 14'-6" LG.
2-4p	2	12" dia. SONA TUBE x 14'-6" LG.
2-4q	2	12" dia. SONA TUBE x 14'-6" LG.
2-4r	2	12" dia. SONA TUBE x 14'-6" LG.
2-4s	2	12" dia. SONA TUBE x 14'-6" LG.
2-4t	2	12" dia. SONA TUBE x 14'-6" LG.
2-4u	2	12" dia. SONA TUBE x 14'-6" LG.
2-4v	2	12" dia. SONA TUBE x 14'-6" LG.
2-4w	2	12" dia. SONA TUBE x 14'-6" LG.
2-4x	2	12" dia. SONA TUBE x 14'-6" LG.
2-4y	2	12" dia. SONA TUBE x 14'-6" LG.
2-4z	2	12" dia. SONA TUBE x 14'-6" LG.
2-4aa	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ab	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ac	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ad	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ae	2	12" dia. SONA TUBE x 14'-6" LG.
2-4af	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ag	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ah	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ai	2	12" dia. SONA TUBE x 14'-6" LG.
2-4aj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ak	2	12" dia. SONA TUBE x 14'-6" LG.
2-4al	2	12" dia. SONA TUBE x 14'-6" LG.
2-4am	2	12" dia. SONA TUBE x 14'-6" LG.
2-4an	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ao	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ap	2	12" dia. SONA TUBE x 14'-6" LG.
2-4aq	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ar	2	12" dia. SONA TUBE x 14'-6" LG.
2-4as	2	12" dia. SONA TUBE x 14'-6" LG.
2-4at	2	12" dia. SONA TUBE x 14'-6" LG.
2-4au	2	12" dia. SONA TUBE x 14'-6" LG.
2-4av	2	12" dia. SONA TUBE x 14'-6" LG.
2-4aw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ax	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ay	2	12" dia. SONA TUBE x 14'-6" LG.
2-4az	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ba	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bb	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bc	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bd	2	12" dia. SONA TUBE x 14'-6" LG.
2-4be	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bf	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bg	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bh	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bi	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bk	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bl	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bm	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bn	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bo	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bp	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bq	2	12" dia. SONA TUBE x 14'-6" LG.
2-4br	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bs	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bt	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bu	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bv	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bx	2	12" dia. SONA TUBE x 14'-6" LG.
2-4by	2	12" dia. SONA TUBE x 14'-6" LG.
2-4bz	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ca	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cb	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cc	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cd	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ce	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cf	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cg	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ch	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ci	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ck	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cl	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cm	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cn	2	12" dia. SONA TUBE x 14'-6" LG.
2-4co	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cp	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cq	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cr	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cs	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ct	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cu	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cv	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cx	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cy	2	12" dia. SONA TUBE x 14'-6" LG.
2-4cz	2	12" dia. SONA TUBE x 14'-6" LG.
2-4da	2	12" dia. SONA TUBE x 14'-6" LG.
2-4db	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dc	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dd	2	12" dia. SONA TUBE x 14'-6" LG.
2-4de	2	12" dia. SONA TUBE x 14'-6" LG.
2-4df	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dg	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dh	2	12" dia. SONA TUBE x 14'-6" LG.
2-4di	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dk	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dl	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dm	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dn	2	12" dia. SONA TUBE x 14'-6" LG.
2-4do	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dp	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dq	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dr	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ds	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dt	2	12" dia. SONA TUBE x 14'-6" LG.
2-4du	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dv	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dx	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dy	2	12" dia. SONA TUBE x 14'-6" LG.
2-4dz	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ea	2	12" dia. SONA TUBE x 14'-6" LG.
2-4eb	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4ej	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ek	2	12" dia. SONA TUBE x 14'-6" LG.
2-4el	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4fe	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4fj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fk	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fl	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fm	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fn	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fo	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4fq	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4fs	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ft	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fu	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fv	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fx	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fy	2	12" dia. SONA TUBE x 14'-6" LG.
2-4fz	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ga	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gb	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gc	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gd	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ge	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gf	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gg	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gh	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gi	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gk	2	12" dia. SONA TUBE x 14'-6" LG.
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2-4gm	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gn	2	12" dia. SONA TUBE x 14'-6" LG.
2-4go	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gp	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gq	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gr	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gs	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gt	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gu	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gv	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gw	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gx	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gy	2	12" dia. SONA TUBE x 14'-6" LG.
2-4gz	2	12" dia. SONA TUBE x 14'-6" LG.
2-4ha	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hb	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hc	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hd	2	12" dia. SONA TUBE x 14'-6" LG.
2-4he	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hf	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hg	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hh	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hi	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hj	2	12" dia. SONA TUBE x 14'-6" LG.
2-4hk	2	12" dia. SONA TUBE x 14'-6" LG.</

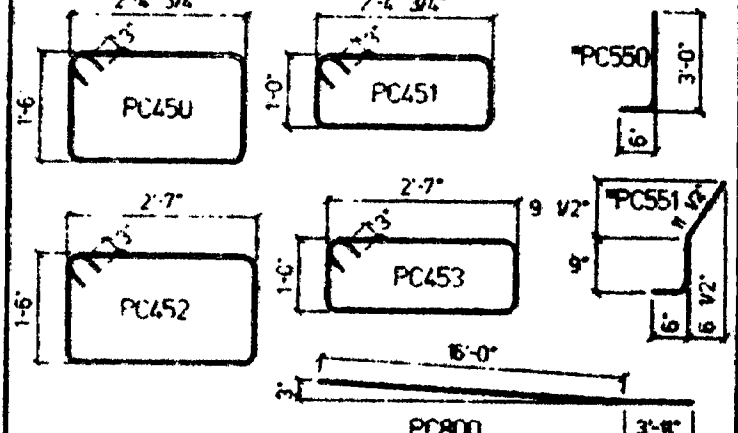


- DRAWING NOTES:**
1. ALL CLEARANCES FOR REBAR TO BE 2" UNAD.
 2. PRESTRESSING CABLES TO BE 1/2" DIA. (270 KSI) STABILIZED STRANDS WITH AN INITIAL TENSION PER CABLE OF 280 kips.
 3. CONCRETE STRENGTH: AT RELEASE - 4000 psi AT 28 DAYS - 6000 psi
 4. DE-TENSIONING OF PRESTRESSED CABLES: SEE DIAGRAM FOR SEQUENCE.
 5. SURFACE OF SHEAR KEYS SHALL BE SANDBLASTED.
 6. POST-TENSIONING CABLES TO BE 1/2" DIA. (270 KSI) STABILIZED STRANDS. ADJACENT END: RECESS AND PATCH STRANDS & PAINT. BEAM ENDS WITH BUTT JOINTS: PAINT (TYP.). PER END - BURN OFF STRANDS & GRIND FLUSH W/BEAM ENDS.
 7. TOP FINISH: ROUGHEN TO 1/4" AMPLITUDE (IN TRANSVERSE DIRECTION).
 8. SIDE FINISH: FORM SMOOTH (EXCEPT SHEAR KEY).
 9. REINFORCING BARS TO BE NONWELD COATED (ASTM A638 GRADE 60) UNAD.
 10. "W" INDICATES WELD COATED REINFORCING.
 11. BENDING DETAILS & JOINTS ON REINFORCING BARS AS PER ACI STANDARD 308.

REINFORCING SCHEDULE (PER PANEL)

BENDING DIMENSION SHOWN OUT/OUT OF REBAR

MARK	SIZE	SHAPE	QUANTITY	LENGTH	WEIGHT
PC450	#4	U	N/A	8'-9"	
PC451	#4	U	N/A	7'-9"	
PC452	#4	U	59	9'-2"	361
PC453	#4	U	6	8'-2"	33
PC800	#8	U	4	19'-11"	20
PC550	#5	U	54	3'-6"	97
PC551	#5	U	54	2'-3"	97
					931 lbs



CAST IN HARDWARE LIST (PER PANEL)

MARK	QTY	DESCRIPTION
2-2b	4	ASSEMBLY UNIT - 2 1/2" ID. PVC DUCT x 2'-5 1/2"
2-3	2	2" ID. PVC PIPE SLEEVE x 1'-9" LG.
2-4a	ONE	12" dia. SONA TUBE x 12'-6" LG.
2-5a	N/A	12" dia. SONA TUBE x 12'-6" LG.
2-4b	ONE	12" dia. SONA TUBE x 15'-0" LG.
2-5b	N/A	12" dia. SONA TUBE x 15'-0" LG.
2-4c	ONE	12" dia. SONA TUBE x 15'-0" LG.
2-5c	N/A	12" dia. SONA TUBE x 15'-0" LG.
2-7	1	1" dia. PLASTIC BEAM DRAIN

QUALIFIED REIN. SPACING

REVISION	DATE	BY	CHK
1	Feb. 5, 98	JMG	
2	Feb. 5, 98	JMG	
3	Jan. 9, 98	OPD	



CPM CONSTRUCTORS
FREEPORT, MAINE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

DILL BRIDGE
OVER SOUTH BRANCH SANDY RIVER
IN THE TOWN OF PHILLIPS - FRANKLIN COUNTY, MAINE

VOIDED SLAB DETAILS VS-6

STRESCON LIMITED
SAINT JOHN, N.B. BEDFORD, N.S.

OWNER	DESIGNED BY	DATE
GREG	GREG	Jan. 9, 98

DATE/REVISION	CONTRACT NUMBER	DRAWING NO.	REV
dill.db	2010	VS-6	2