

**GENERAL NOTES**

**SPECIFICATIONS**

**DESIGN**  
AS-BUILT DATED 1932 AND INTERIM SPECIFICATIONS FROM 1911 AND CALIFORNIA DIVISION OF HIGHWAYS BRIDGE PERMANENT AND DESIGN MANUALS

**CONSTRUCTION**  
CALIFORNIA DIVISION OF HIGHWAYS STANDARD SPECIFICATION DATED JANUARY 1918 AND THE SPECIAL SPECIFICATIONS

**LIVE LOAD** HS20 E. 1.50 ALTERNATIVE

**ALLOWABLE DESIGN UNIT STRESSES**

**CONCRETE**  
28 DAY COMPRESSIVE STRENGTH  $f'_c = 2,250$  PSI TYPE II PORTLAND CEMENT  
1 = 1,500 PSI DECK SLAB  
2 = 1,500 PSI ALL OTHER MEMBERS

**REINFORCING STEEL**  
ASTM A601 GRADE 60 Fy = 60 KSI  
1 = 60,000 PSI TENSION AND COMPRESSION IN GIRDERS  
2 = 60,000 PSI TENSION IN DECK SLAB, WEB REINFORCEMENT AND COMPRESSION IN PIER

**PILE LOADING** 45 TON DESIGN BEARING LOAD 100P-46

**REINFORCING STEEL CLEARANCES**

**SUPERSTRUCTURE**  
DECK ..... 2"  
ALL OTHER SURFACES ..... 1" EXCEPT AS NOTED

**ADJUSTMENTS, WALLS, OTHER EARTH CONTACT**  
EARTH FACE ..... 2"  
EXPOSED FACE ..... 1"

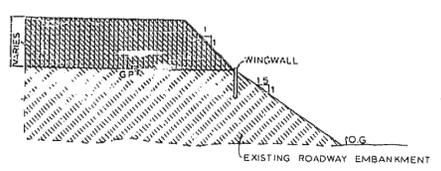
**COLUMNS** ..... 2"

**SLOPE PAVING** ..... 1 1/2"

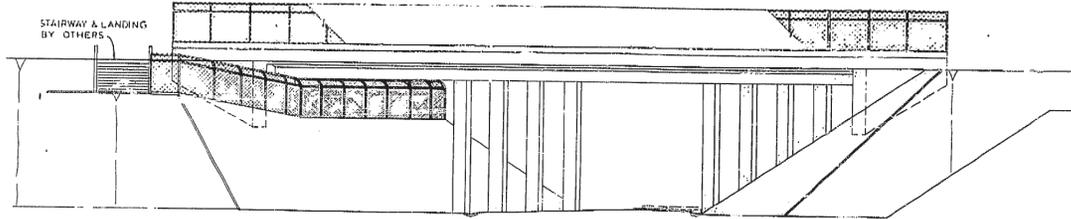
The Bridge As-Built Plans and corresponding BrDR Models are provided for example only and may not represent the modeling techniques used by your agency.

NOTE: 1. EMBANKMENT SHOULDER @ R/W LINE, OR 5' FROM TC WHICHEVER IS LESS.  
2. MEDIAN LANDSCAPING SOLE LENGTHS, SEE PLAN & PROFILE SHEETS.

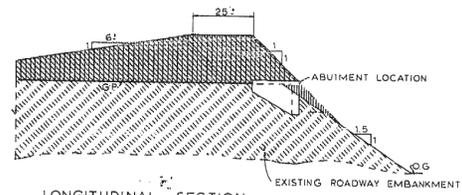
... PLANS



TRANSVERSE SECTION  
BRIDGE APPROACH FILL



BRIDGE ELEVATION - LOOKING NORTHWESTERLY  
SCALE 1" = 10'



LONGITUDINAL SECTION  
BRIDGE APPROACH FILL

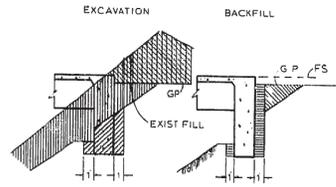
**LEGEND**

[Hatched pattern]	STRUCTURE EXCAVATION
[Solid grey]	STRUCTURE BACKFILL
[Diagonal lines]	ROADWAY EXCAVATION
[Horizontal lines]	ROADWAY EMBANKMENT
[Vertical lines]	BRIDGE EMBANKMENT SURCHARGE

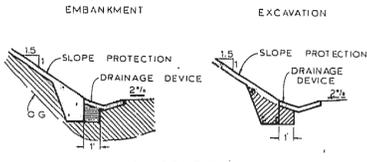
**ABBREVIATIONS**

O.G.	ORIGINAL GROUND
F.S.	PLANNED FINISHED SURFACE
G.P.	PLANNED GRADING SURFACE

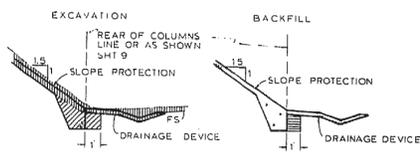
- CONSTRUCTION NOTES (EXCEPT BRIDGE STRUCTURE NOTES)**
- CONST. 2" DIA. AC. 11-40 AS
  - CONST. CONC. CURB TYPE A-B PER DETAIL (1) SHEET 15.
  - CONST. SIDEWALK RETURN PER DETAIL (1) SHEET 15.
  - CONST. 6" DIA. SIDEWALK ACCESS RAMP PER DETAIL (1) SHEET 15.
  - CONST. CONC. MEDIAN CURB PER DETAIL (1) SHEET 15.
  - CONST. DEPRESSION CURB DESIGN PER DETAIL (1) SHEET 15.
  - CONST. PARKWAY CURB PER DETAIL (1) SHEET 15.
  - CONST. 6" CONC. SIDEWALK PER DETAIL (1) SHEET 15.
  - REMOVE SALVAGE METAL SCAM. SCAM. RAIL.
  - REMOVE 1" DIA. EXISTING AC. PAV. UNUSABLE AC. CAP FOR SIDEWALK.
  - REMOVE EXIST. 6" DIA. MANHOLE TO EXISTING 12" DIA. 10' DIA. 10' DIA.
  - CONST. PATENTED STAMPED METAL PAVEMENT PER DETAIL (1) SHEET 15.
  - PROTECT IN PLACE.
  - CONST. 10' DIA. TRAIL, PLACE 0.35 AC./LS PER DETAIL (1) SHEET 4.
  - APPROX. LIMITS OF DEPRESSION TO RECEIVE EARTH MATERIALS FROM SURCHARGE. REMOVAL, REMEDIATION, RECONSTRUCTION, AND OTHER SURVEYOR'S WORK SHALL BE PERFORMED BY CONTRACTOR.
  - CONST. 10' DIA. TRAIL, PLACE 0.35 AC./LS PER DETAIL (1) SHEET 4.
  - PLACE IMPERMEABLE MEMBRANE PER DETAIL (1) SHEET 15.
  - CONST. MEDIAN DRAIN ALGT PER DETAIL (1) SHEET 15.
  - REMOVE OR RELOCATE WITHIN 100' FEET DIAMETER AND SPECIAL PROVISIONS.
  - CONST. 8" DIA. P. MEDIAN DRAIN PIPE PER DETAIL (1) SHEET 15.
  - CONST. 1" GALVANIZED PIPE, PLACE 2" (MIN.) BELOW FINISH GRADE.
  - CONST. SIDEWALK RETURN PER DETAIL (1) SHEET 15.
  - SANICUT & REMOVE CONCRETE, EPOXY REPAIR SURFACE PER DETAIL (1) SHEET 15.
  - SANICUT & REMOVE EXISTING MEDIAN.
  - CONST. PARALLEL MEDIAN CURB TRANSITION PER DETAIL (1) SHEET 15.
  - CONST. 6" DIA. CURB PER DETAIL (1) SHEET 15.
  - PLACE EROSION CONTROL (TYPE D).



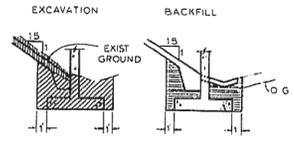
ABUTMENT ON EXISTING EMBANKMENT



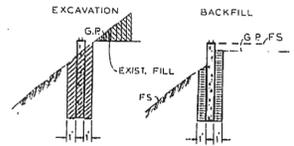
FILL CONDITIONS  
SLOPE PROTECTION &  
DRAINAGE DEVICE



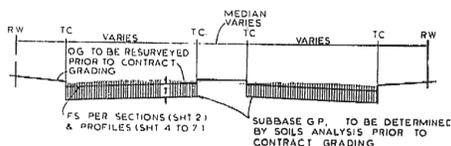
CUT CONDITIONS  
SLOPE PROTECTION &  
DRAINAGE DEVICE



COLUMN PILE CAPS



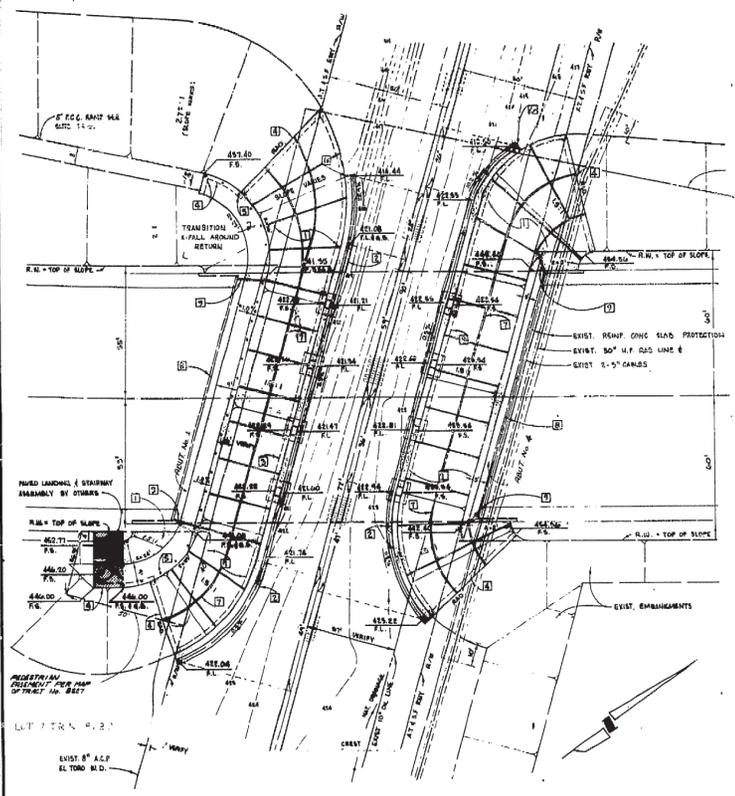
WINGWALLS



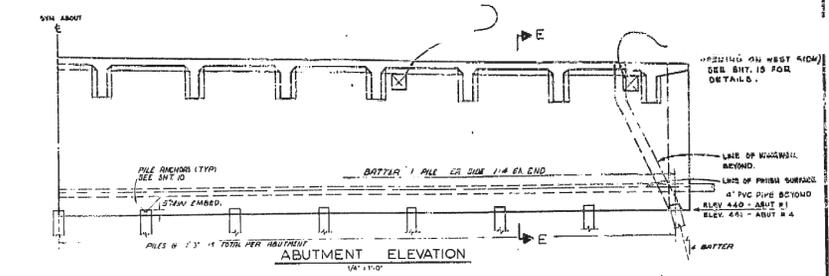
ROADWAY EXCAVATION

ANS

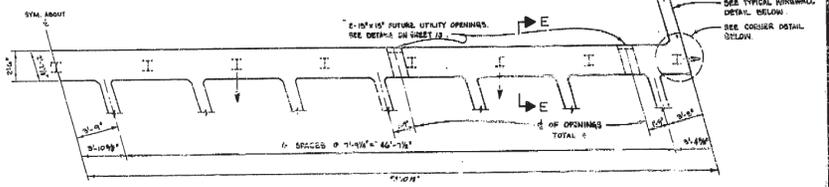




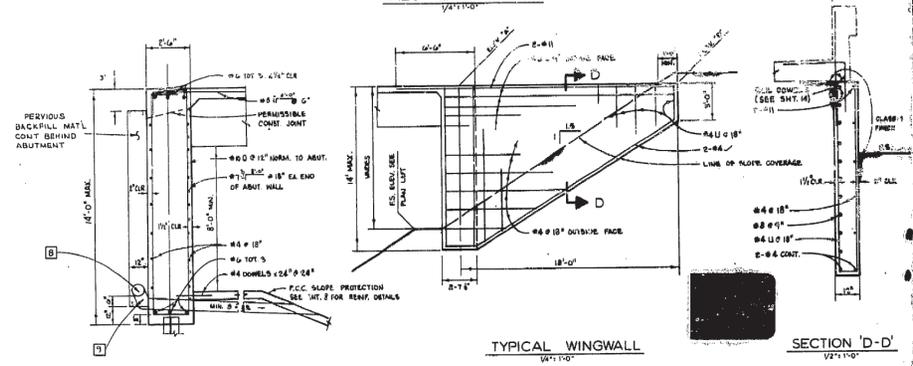
PLAN - SLOPE PAVING, PEDESTRIAN UNDERPASS  
AND SITE DRAINAGE PLAN  
SCALE 1" = 10'



ABUTMENT ELEVATION  
SCALE 1/4" = 1'-0"



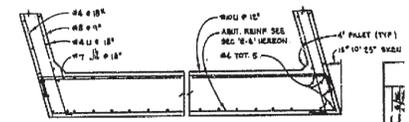
ABUTMENT PLAN  
SCALE 1/4" = 1'-0"



SECTION 'E-E'  
SCALE 3/8" = 1'-0"

TYPICAL WINGWALL  
SCALE 1/4" = 1'-0"

SECTION 'D-D'  
SCALE 1/4" = 1'-0"



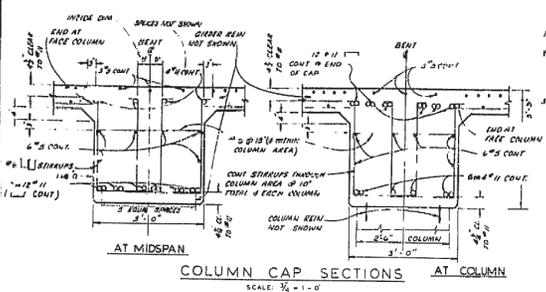
CORNER DETAIL  
SCALE 1/4" = 1'-0"

CONSTRUCTION NOTES

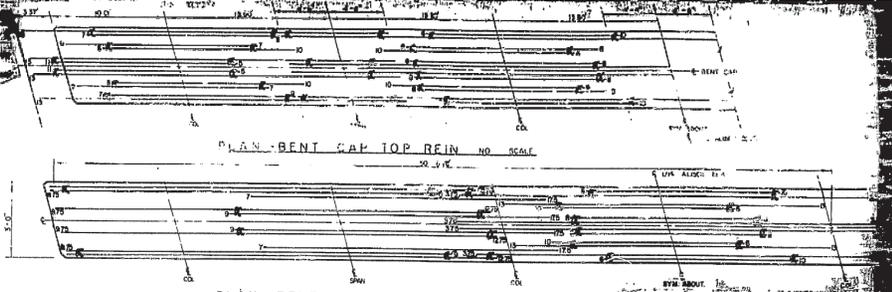
- 1 - CONST. 3" MIN. REINF. CONC. SLOPE PROTECTION PER DETAILS SHEET B
- 2 - CONST. 2" P.C.C. DRAINAGE "V" DITCH PER DETAIL SHEET B
- 3 - CONST. TYPE "A" EDGE BEAM PER DETAIL SHEET B
- 4 - CONST. TYPE "D" EDGE BEAM PER DETAIL SHEET B
- 5 - CONST. TYPE "S" CHAIN LINK FENCE ALONG PED UP PER DETAILS SHEET 14 AND SHEET B FOR PTA DETAIL.
- 6 - CONST. CURT.-OFF WALL PER DETAIL SHEET B
- 7 - CONST. PREFORMED GROOVES @ 18" S.C.C. PER DETAIL SHEET B
- 8 - PLACE 4" SLOTTED (OR PERFORATED) PVC PIPE.
- 9 - PLACE 4" PVC PIPE.

**CAP REINFORCEMENT NOTES**

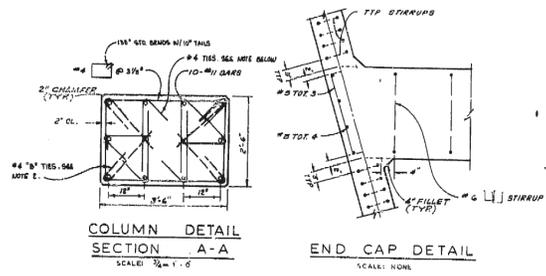
1. ALL REINFORCEMENT #4 UNLESS OTHERWISE NOTED.
2. NUMBERS AT END OF BARS INDICATE DISTANCE IN FEET FROM 0 B.M. OR REFERENCE LINE FOR TOP REINFORCEMENT AND 0 FROM FOR BOTTOM REINFORCEMENT INDICATED DISTANCE FROM 0 COLUMN. DIMENSIONED BARS SHOWN THUS:  $\phi$



**COLUMN CAP SECTIONS**  
SCALE: 3/4" = 1'-0"



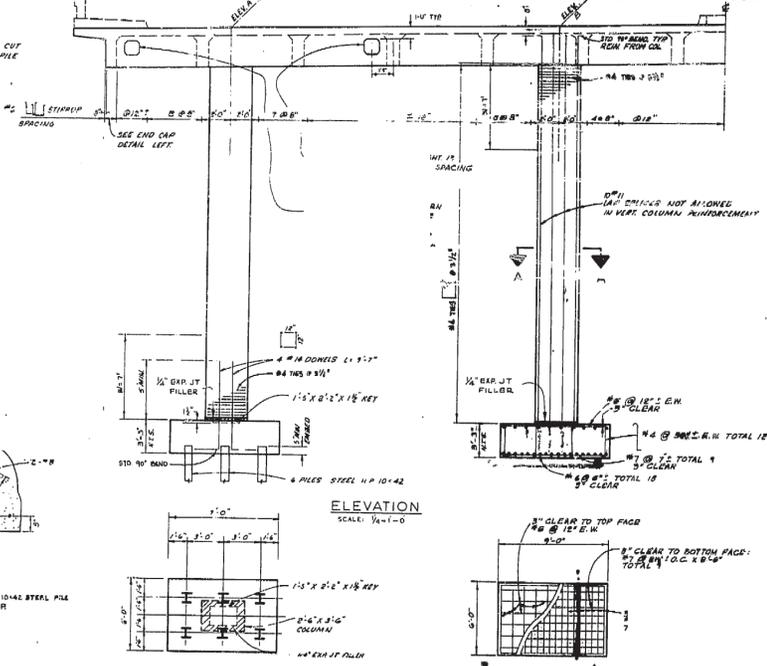
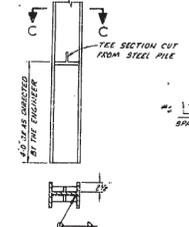
**PLAN-BENT CAP TOP REIN** NO SCALE  
**PLAN-BENT CAP BOTTOM REIN** NO SCALE



**COLUMN DETAIL SECTION A-A**  
SCALE: 3/4" = 1'-0"

**END CAP DETAIL**  
SCALE: NONE

**PILE LUG SECTION C-C**



**ELEVATION**  
SCALE: 3/4" = 1'-0"

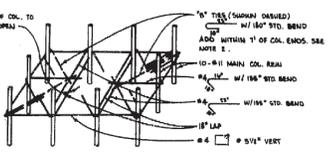
**H-PILE DETAIL SECTION D-D**  
SCALE: 3/4" = 1'-0"

**PILE AND KEY LOCATION PLAN**  
SCALE: 3/4" = 1'-0"

**HORIZ. REINF. PLA**

**COLUMN REINFORCEMENT NOTES**

1. PLACE #4 TIES INTO INTERIOR OF COLUMN # 21" VERT. SEE ISOMETRIC DETAIL SECTION.
2. ADD 70" TIES # 21" VERT. FOR DIST. W/17' FROM TOP (BOTTOM OF COLUMN SEE ELEV. FOR "A").



**ISOMETRIC - COLUMN TIES**  
NO SCALE

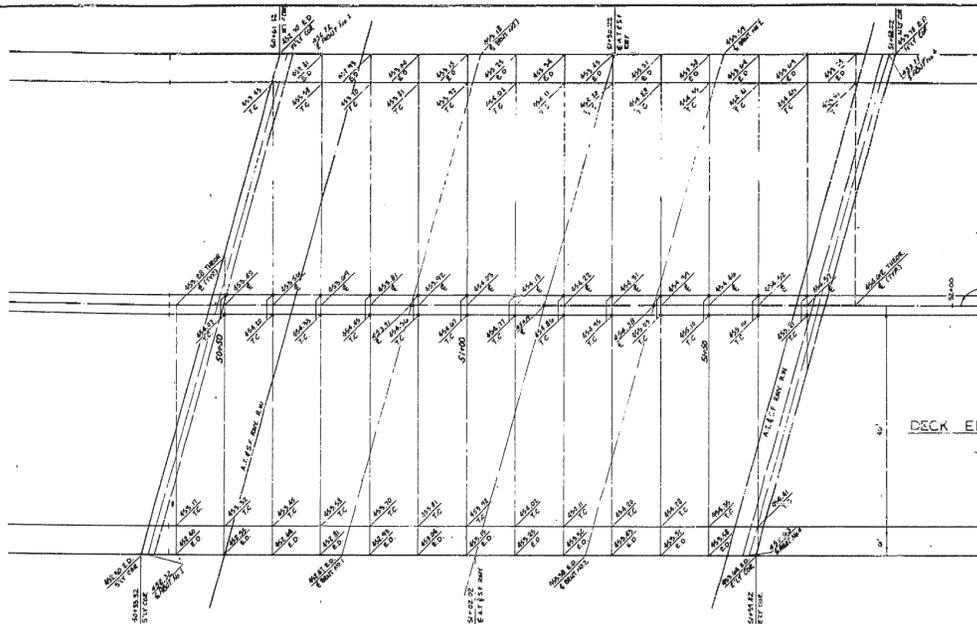
**MIN PILE TIP ELEVATIONS & EMBEDMENTS**

NO.	ABUT.	PIER	NO.	ELEV.	EMBEDMENT BELOW D.O. (FEET)	TEST
N/1	ABUT. #1	PIER #1	1	515'	60'	✓
S/1	ABUT. #1	PIER #2	2	600'	18'	✓

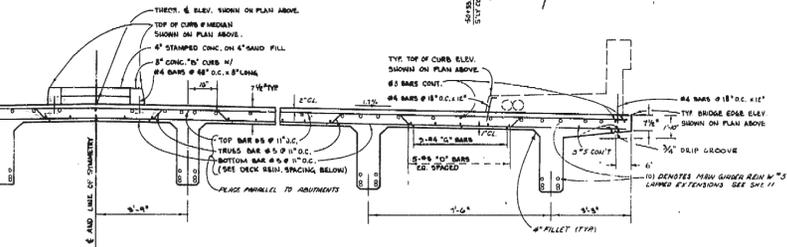
VERIFY WITH TEST PILES.  
PRELIMINARY HOLES FOR PILES IN EMBEDMENT DOWN TO 18" BELOW SET OUT.

NO.	ELEV.	FILE
1	515'	455.75
2	600'	455.85
3	70'	455.85
4	470'	455.75





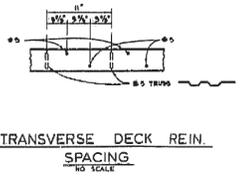
DECK ELEVATIONS - 10' STATIONS  
CORNERS & BENTS  
SCALE 1/2\"/>



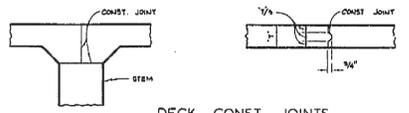
TYPICAL DECK SECTION  
SCALE 1/2\"/>

DECK PLACING NOTES

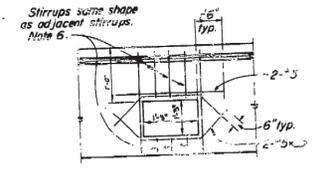
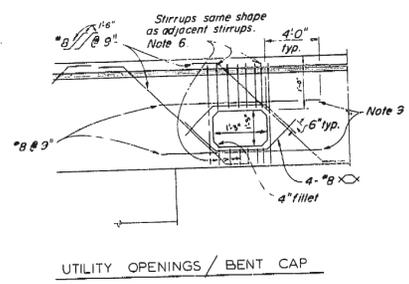
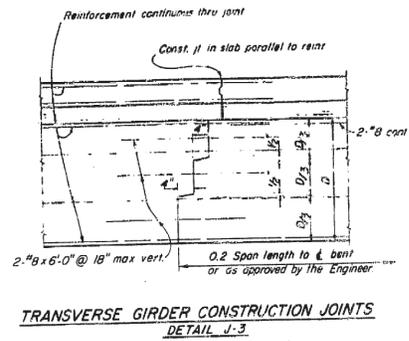
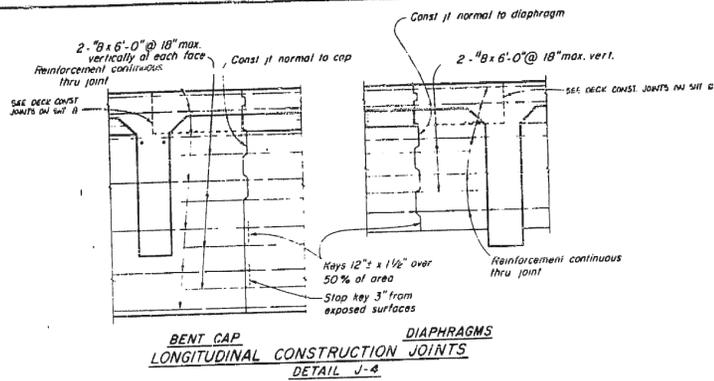
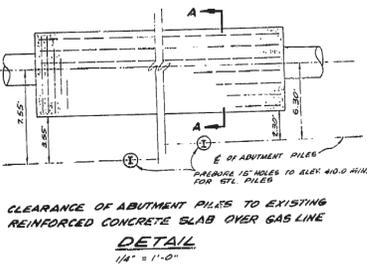
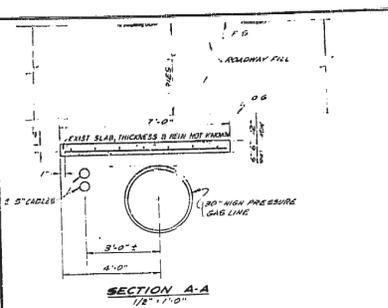
1. THE CONTRACTOR SHALL SUBMIT A DECK PLACING SCHEDULE WHICH WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
2. TRANSVERSE JOINTS MAY BE LOCATED AT ABOUT THE 1/4 POINT OF SPAN.
3. LONGITUDINAL JOINTS SHALL BE LOCATED AT THE EDGE OF A TRAFFIC LANE UNLESS OTHERWISE TERMINATED BY THE ENGINEER.
4. REINFORCING STEEL SHALL BE CONTINUOUS THRU ALL CONSTRUCTION JOINTS.



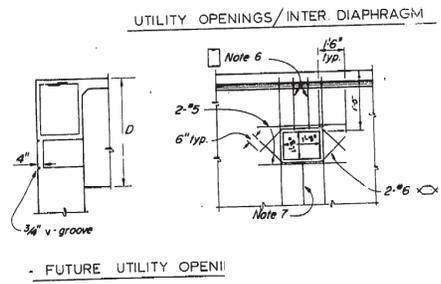
TRANSVERSE DECK REIN.  
SPACING  
NO SCALE



DECK CONST JOINTS  
SCALE 1\"/>



- NOTES:**
1. The exact location, elevation, size and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer.
  2. Girders not shown. See Project Plans.
  3. All reinf. detailed to be placed in addition to reinf. shown on Project Plans.
  4. Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 15# building paper.
  5. Main reinf. to clear opening.
  6. Reinf. to be same bar size, and  $\frac{1}{3}$  the spacing of adjacent reinf. shown on Project Plans.
  7. Reinf. to be same bar size and shape as adjacent reinf. shown on Project Plans.
  - 8.
  9. When there is insufficient space to place reinf. as shown, hook reinf. into exterior girder.



- FUTURE UTILITY OPENING

