

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF HIGHWAYS
 PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY

Official COPY
 5-19-64
 AOK

FEDERAL AID ROUTE NO.	SEC.	COUNTY	SECTION	PROJECT
F.A.I. 57	*	CHAMPAIGN	24	1
2-10-33HB-1 & 10-33B-1				

P-95-011-00

INDEX OF SHEETS ON SHEET NO. 3

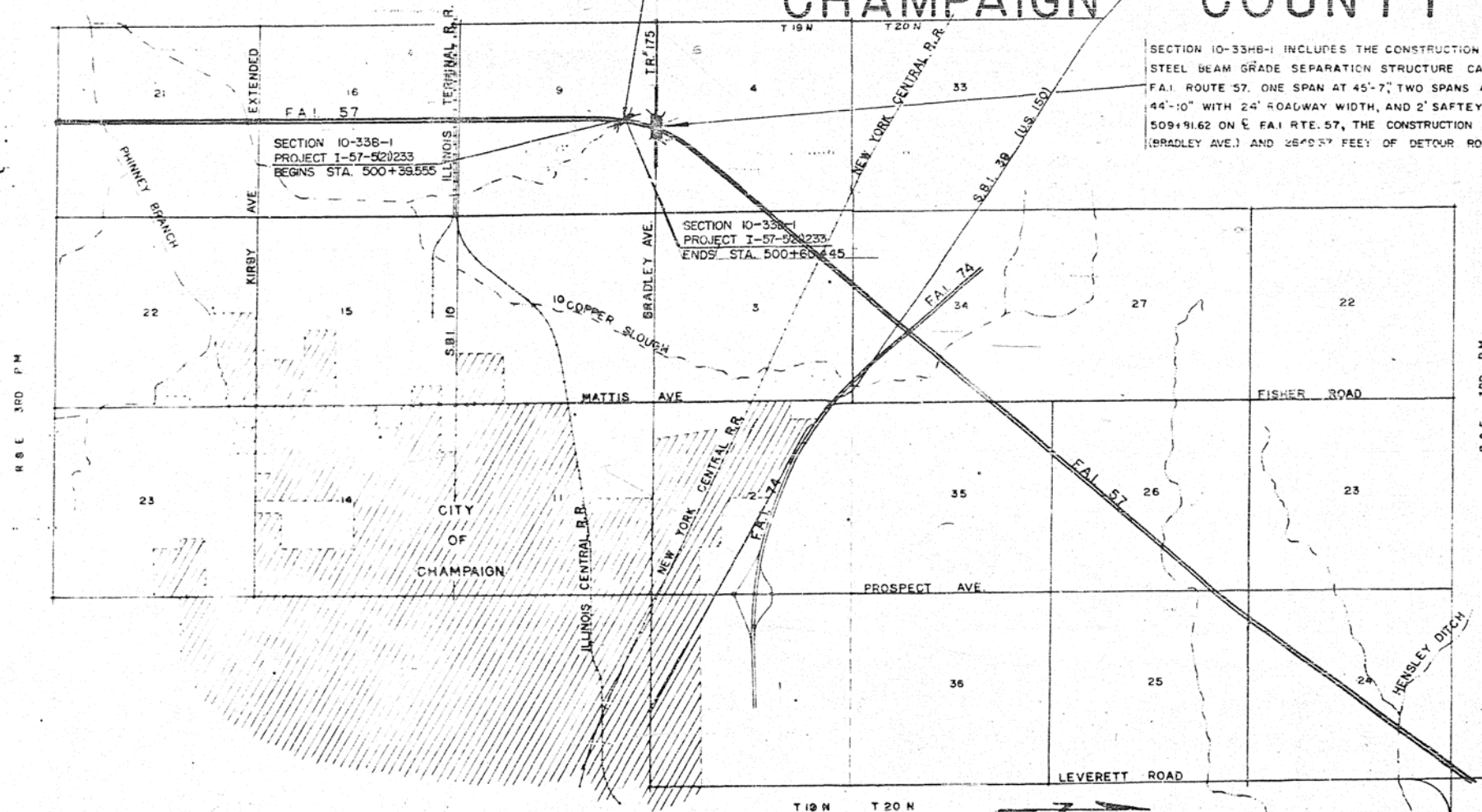
SCALES
 PLAN 1 INCH = 100 FT.
 PROFILE HOR. 1 INCH = 100 FT.
 PROFILE VERT. 1 INCH = 10 FT.
 CROSS-SECTIONS 1 INCH = 5 FT.

REVISED AS BUILT

F.A.I. ROUTE 57 SEC. 10-33HB-1 & 10-33B-1
 PROJECT I-57-5 (21) 233
 CHAMPAIGN COUNTY

SECTION 10-33B-1 INCLUDES THE CONSTRUCTION OF A SIMPLE SPAN TRIPLE BOX REINFORCED CONCRETE CULVERT AT COPPER SLOUGH. 3'-0" X 5'-0" X 21'-6" @ STATION 500+50.00 ON F.A.I. ROUTE 57

SECTION 10-33HB-1 INCLUDES THE CONSTRUCTION OF ONE 4-SPAN CONTINUOUS STEEL BEAM GRADE SEPARATION STRUCTURE CARRYING TR. NO. 175 (BRADLEY AVE.) OVER F.A.I. ROUTE 57. ONE SPAN AT 45'-7", TWO SPANS AT 72'-11", AND ONE SPAN AT 44'-10" WITH 24' ROADWAY WIDTH, AND 2' SAFETY WALKS EACH SIDE AT STATION 509+91.62 ON E. F.A.I. RTE. 57, THE CONSTRUCTION OF THE APPROACHES FOR TR. NO. 175 (BRADLEY AVE.) AND 25' OF FEET OF DETOUR ROAD



LOCATION OF SECTION INDICATED THIS:—

W. C. Bannan

SUBMITTED	June 17, 1964
EXAMINED	April 20, 1964
DRAWN	April 20, 1964
APPROVED	April 20, 1964
APPROVED	April 20, 1964

CLARK, DAILY, DIETZ AND ASSOCIATES
 211 N. RACE ST., URBANA, ILL.
 James Clark

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	DATE
<input type="text"/>	<input type="text"/>
DIVISION ENGINEER	DATE

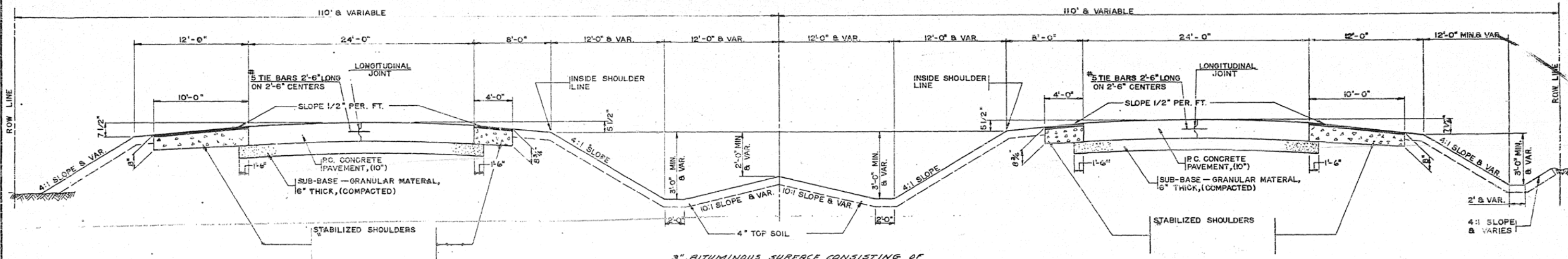
NET LENGTH OF SECTION 10-33HB-1 = 0.000 FEET = 0.000 MILES
 NET LENGTH OF SECTION 10-33B-1 = 20.89 FEET = 0.004 MILES
 NET LENGTH OF PROJECT I-57-5(21)233 = 20.89 FEET = 0.004 MILES

CONTRACT NO. 28269



TYPICAL CROSS SECTION FAI-57

FAI-57 10-35 CHAMPAIGN, 34
HB-1



3" BITUMINOUS SURFACE CONSISTING OF
 1 1/2" BITUMINOUS CONCRETE BINDER COURSE
 AND 1 1/2" BITUMINOUS CONCRETE SURFACE
 COURSE SUBCLASS I-II.

NOTE:
 DETAILS OF PAVEMENT, JOINTS, PAVEMENT
 FABRIC, ETC. FOR FAI-57 SHALL CONFORM
 TO STANDARD 2179 EXCEPT AS SHOWN
 ABOVE. TOP SOIL SHALL BE PLACED AS
 SHOWN ON STATION CROSS SECTIONS.

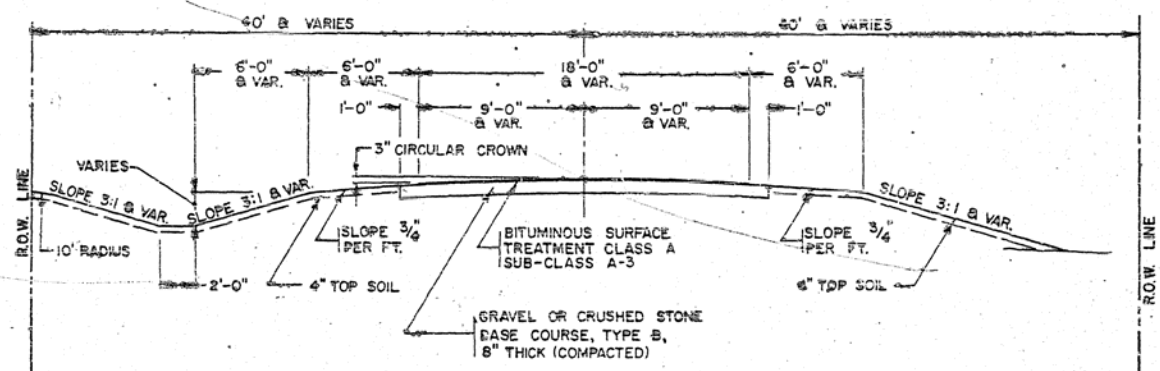
DESIGN CLASSIFICATION
 1843-T-70

NOTE:
 SHOULDERS AND SIDESLOPES SHALL BE ROUNDED 12"
 EACH DIRECTION FROM THE TANGENT INTERSECTION OF
 THESE SURFACES. 2" SHOULDER ROUNDED ON SURERELEVATED
 SECTIONS SHALL CONFORM TO THE APPLICABLE PORTIONS OF STD. 2179

THE NOMINAL THICKNESSES FOR SUB-BASE GRANULAR MATERIAL
 AND BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL
 SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE
 CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT
 BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT
 ANY LOCATION.

TYPICAL CROSS SECTION OF PROPOSED 18' BITUMINOUS SURFACED ROADWAY

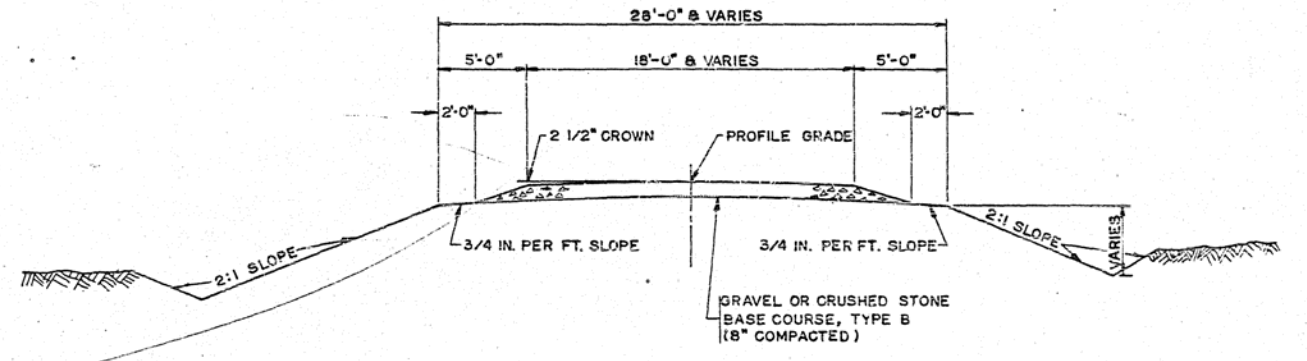
T.R. NO. 175 (BRADLEY AVE.)
 STA. 15+00.00 TO STA. 24+94.51
 STA. 27+35.62 TO STA. 37+00.00



NOTE: SHOULDERS AND SIDESLOPES SHALL BE ROUNDED 12"
 IN EACH DIRECTION FROM THE TANGENT INTERSECTION
 OF THESE SURFACES

ADT. 375

TYPICAL CROSS SECTION OF DETOUR ROAD



DATE: 5-6-63
 DRAWN BY: M.H.U.
 CHECKED BY: T.K.C.
 PROJECT NO.: 118-63

Rev. 4/9/64. N.M.D. Revised FAI 57 Section.

FIG. NO. 304-19

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GENERAL NOTES

WHEREVER REFERENCE IS MADE IN THESE PLANS TO THE "STANDARD SPECIFICATIONS", IT IS UNDERSTOOD TO INCLUDE THE "SUPPLEMENTAL SPECIFICATIONS", EFFECTIVE MARCH 1964.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEAL LEVEL DATUM.

GRAVEL OR CRUSHED STONE BASE COURSE, TYPE B, SHALL BE PLACED 8" THICK, COMPACTED, ON T.R. 175, 8" THICK, COMPACTED ON THE DETOUR ROAD, AND 6" THICK, COMPACTED ON PRIVATE ENTRANCES IN ACCORDANCE WITH THE TYPICAL CROSS SECTIONS INCLUDED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:
5,300 TONS GRAVEL OR CRUSHED STONE BASE COURSE, TYPE B
1,000 TONS GRAVEL OR CRUSHED STONE

CALCIUM CHLORIDE SHALL BE APPLIED ON THE GRAVEL OR CRUSHED STONE DETOUR ROAD, AND IT SHALL ALSO BE APPLIED TO THE GRAVEL OR CRUSHED STONE USED FOR MAINTENANCE OF THE DETOUR ROAD AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITY:
20.5 TONS CALCIUM CHLORIDE APPLIED

A BITUMINOUS SURFACE TREATMENT, SUB-CLASS A-3 SHALL BE PLACED ON THE PROPOSED GRAVEL OR CRUSHED STONE BASE COURSE AT LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:
1,900 GALS. BITUMINOUS MATERIALS (PRIME COAT)
3,700 GALS. BITUMINOUS MATERIALS (COVER AND SEAL COATS)
120 TONS. COVER COAT AGGREGATE
50 TONS. SEAL COAT AGGREGATE

TOP SOIL, 4" THICK COMPACTED, SHALL BE PLACED AT LOCATIONS SHOWN ON THE STATION CROSS SECTIONS AND AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITY:
1,637 CU.YDS. TOP SOIL

EARTH SHOULDERS, DITCHES SIDESLOPES, BACKSLOPES, MEDIANS, AND OTHER PORTIONS OF THE RIGHT-OF-WAY SHALL BE SEEDED AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:
2.7 ACRES TEMPORARY SEEDING
2.7 ACRES COMPLETE SEEDING
0.4 TONS FERTILIZED NUTRIENTS

BACKSLOPES HAVING A SLOPE OF 4:1 OR STEEPER, ALL EARTH SHOULDERS AND SIDESLOPES SHALL BE MULCHED AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:
10 TONS STRAW FOR ASPHALT COATED MULCH
1,000 GALLONS EMULSIFIED ASPHALT

BEFORE ORDERING STORM SEWERS AND PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTH.

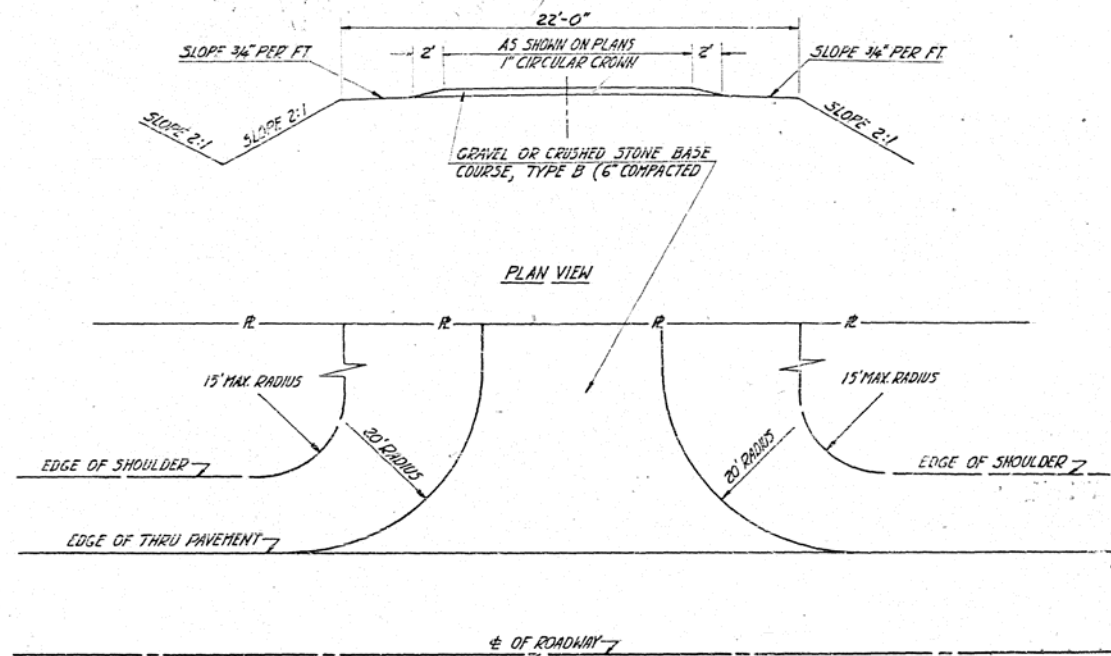
TWO (2) SIGNS CONFORMING TO STANDARD 2153-4 SHALL BE ERECTED AT LOCATIONS SHOWN ON SHEETS 7 & 8

ALL TRENCHES WITHIN THE PROPOSED SUBGRADE AND ALL TRENCHES OUTSIDE THE PROPOSED SUBGRADE WHERE THE INNER EDGE OF THE TRENCH IS CLOSER THAN TWO FEET TO THE EDGE OF THE STABILIZED SHOULDERS SHALL BE BACKFILLED WITH TRENCH BACKFILL, AS DIRECTED BY THE ENGINEER.

ESTIMATED QUANTITIES:
100 CU. YDS. TRENCH BACKFILL

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

TYPICAL SECTION OF PROPOSED PRIVATE ENTRANCES



- SYMBOLS FOR RIGHT OF WAY MARKERS & UTILITY POLES
- INDICATES RIGHT-OF-WAY MARKER TO BE SET AT THIS LOCATION
 - INDICATES EXISTING TELEPHONE POLE
 - ⊙ INDICATES PROPOSED TELEPHONE POLE
 - INDICATES EXISTING POWER POLE
 - ⊞ INDICATES PROPOSED POWER POLE

DESIGNED BY _____ DRAWN BY _____ DATE _____ CHECKED BY DATE _____ IN CHARGE _____

added note about trench backfill 7/30/63 Jx

SCHEDULE OF QUANTITIES (SEE SHEET No. 4-A)

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITIES	PROJECT	
LOCATION OF WORK				STATION TO STATION	
				14+00.00 TO 36+75.00	
CONSTRUCTION TYPE CODE				3210	X731
011001	EARTH EXCAVATION	CU. YDS.	12,532	12,933	
013001	BORROW EXCAVATION	CU. YDS.	30,215	9,814	21,397
020001	TRENCH BACK-FILL	CU. YDS.	100	100	
027001	TOP SOIL	CU. YDS.	1,637	1,637	
029003	GRAVEL OR CRUSHED STONE BASE COURSE, TYPE B	TONS	5,300	5,300	
039001	BITUMINOUS MATERIALS (PRIME COAT)	GALS.	1,900	1,900	
039002	BITUMINOUS MATERIALS (COVER & SEAL COATS)	GALS.	3,700	3,700	
039003	COVER COAT AGGREGATE	TONS	120	120	
039004	SEAL COAT AGGREGATE	TONS	60	60	
050001	CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.	306		308
052003	CLASS X CONCRETE	CU. YDS.	591.1	179.1	412.0
052021	PROTECTIVE COAT	SQ. YDS.	840		840
054001	FURNISHING AND ERECTING STRUCTURAL STEEL	LBS.	172,489		172,489
057001	FURNISHING AND ERECTING METAL HANDRAIL	LIN. FT.	476		476
058198	PIPE CULVERTS, TYPE 1, 12"	LIN. FT.	64	64	
058199	PIPE CULVERTS, TYPE 1, 15"	LIN. FT.	60	60	
058200	PIPE CULVERTS, TYPE 1, 18"	LIN. FT.	32	32	
059001	REINFORCEMENT BARS	LBS.	93,104	53,181	59,925
060043	DRIVING CONCRETE PILES	LIN. FT.	400		400
060044	FURNISHING CONCRETE PILES	LIN. FT.	400		400
060047	TEST PILES (CONCRETE)	EACH	2		2
061001	NAME PLATES	EACH	2		2
066001	STORM SEWERS, TYPE 1, 8"	EACH	2,100	2,160	
066002	STORM SEWERS, TYPE 1, 10"	EACH	2,038	2,086	
066004	STORM SEWERS, TYPE 1, 15"	EACH	240	240	
066005	STORM SEWERS, TYPE 1, 18"	EACH	400	400	
066049	STORM SEWERS, TYPE 3, 12"	EACH	80	80	
066073	STORM SEWERS, TYPE 4, 15"	EACH	140	140	
066074	STORM SEWERS, TYPE 4, 18"	EACH	128	128	

SCHEDULE OF QUANTITIES (CONT.) (SEE SHEET No. 4-A)

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITIES	3210	X731
075034	CATCH BASIN, TYPE C, TYPE 8 GRATE	EACH	1	1	
075134	CATCH BASINS, TYPE A, 4 FT. DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	EACH	6	6	
079002	FILLING EXISTING CATCH BASINS	EACH	1	1	
083002	SLOPE WALL, 4 INCH	SQ. YDS.	297		297
084001	STEEL PLATE BEAM GUARD RAIL	LIN. FT.	2,250	2,250	
101002	GRAVEL OR CRUSHED STONE	TONS	1,000	1,000	
102001	CALCIUM CHLORIDE APPLIED	TONS	20.5	20.5	
104001	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8	
110001	TEMPORARY SEEDING	ACRES	2.7	2.7	
110004	COMPLETE SEEDING	ACRES	2.7	2.7	
110005	FERTILIZER NUTRIENTS	TONS	0.4	0.4	
111002	STRAW FOR ASPHALT COATED MULCH	TONS	40.7	10	
111003	EMULSIFIED ASPHALT	GALS	1,000	1,000	
201220	CONSTRUCTION IDENTIFICATION SIGN	EACH	2	2	
ALTERNATE "A"					
058987	PIPE CULVERTS, TYPE 2A RCCP 36"	LIN. FT.	128	128	
ALTERNATE "B"					
158134	PIPE CULVERTS, TYPE 2A CMCP 36"	LIN. FT.	128	128	

DESIGNED BY DATE CHECKED BY DATE IN CHARGE

Rev. Quan. Class X Conc. 582.9 to 591.1 cu. yds. E.B. 6-26-63

added trench backfill 7/5/63 DLW

Rev. 4-9-64 N.M.D. added 2 each "Construction Identification Signs"
 Rev. 2-16-64 DELETED AGRICULTURAL GROUND LIMESTONE 25 TONS - JE
 Rev. 5/1/64 N.M.D. Deleted pipe quantity type 2B RCCP class 36"; added alternate pipe culverts

SUMMARY OF QUANTITIES FOR SECTION 10-33HB-1 & 10-33B-1

ROUTE NO.	SUBDIVISION	EQUIPMENT	TOTAL QUANTITIES	REVISION
FAI 57	Champaign		36	4A
SECTION 10-33HB-1 & 10-33B-1				

Code No.	Item	Unit	Total Quantities	SECTION 10-33HB-1		SECTION 10-33B-1		Code No.	Item	Unit	Total Quantities	SECTION 10-33HB-1		SECTION 10-33B-1	
				3210	X731	X02B	3210					X731	X02B		
011001	Earth Excavation	CU YDS	12,933	12,933											
013001	Borrow Excavation	CU YDS	31,211	9,814	21,397										
020001	Trench Backfill	CU YDS	150	100		50									
027001	Top Soil	CU YDS	1,637	1,637											
029003	Gravel or Crushed Stone Base Course, Type B	TONS	5,300	5,300											
039001	Bituminous Materials (Prime Coat)	GALS	1,900	1,900											
039002	Bituminous Materials (Cover & Seal Coats)	GALS	3,700	3,700											
039003	Cover Coat Aggregate	TONS	120	120											
039004	Seal Coat Aggregate	TONS	60	60											
050001	Class A Excavation for Structures	CU YDS	308		308										
052003	Class X Concrete	CU YDS	792	179.1	412.0	200.9									
052021	Protective Coat	SQ YDS	840		840										
054001	Furnishing and Erecting Structural Steel	LBS	172,489		172,489										
055001	Furnishing and Erecting Metal Handrail	LIN FT	476		476										
058198	Pipe Culverts, Type 1, 12"	LIN FT	64	64											
058199	Pipe Culverts, Type 1, 15"	LIN FT	60	60											
058200	Pipe Culverts, Type 1, 18"	LIN FT	32	32											
059001	Reinforcement Bars	LBS	123,051	33,181	59,923	29,947									
060043	Driving Concrete Piles	LIN FT	400		400										
060044	Furnishing Concrete Piles	LIN FT	400		400										
060047	Test Piles (Concrete)	EACH	2		2										
061001	Name Plates	EACH	3		2	1									
066001	Storm Sewers, Type 1, 8"	LIN FT	2,932	2,160		272									
066002	Storm Sewers, Type 1, 10"	LIN FT	2,088	2,088											
066004	Storm Sewers, Type 1, 15"	LIN FT	240	240											
066005	Storm Sewers, Type 1, 18"	LIN FT	400	400											
066049	Storm Sewers, Type 3, 12"	LIN FT	80	80											
066073	Storm Sewers, Type 4, 15"	LIN FT	140	140											
066074	Storm Sewers, Type 4, 18"	LIN FT	128	128											
075034	Catch Basin, Type C, Type B Grate	EACH	1	1											
075134	Catch Basins, Type A, 4 FT. Dia., With Type I Frame, Closed Lid	EACH	6	6											
079002	Filling Existing Catch Basins	EACH	1	1											
083002	Slope Wall, 4 Inch	SQ YDS	297		297										
094001	Steel Plate Beam Guard Rail	LIN FT	2,250	2,250											
101002	Gravel or Crushed Stone	TON	1,000	1,000											
102001	Calcium Chloride Applied	TON	20.5	20.5											
104001	Furnishing and Erecting Right-Of-Way Mkrs.	EACH	8	8											
110001	Temporary Seeding	ACRE	2.7	2.7											
110004	Complete Seeding	ACRE	2.7	2.7											
110005	Fertilizer Nutrients	TON	0.4	0.4											
111002	Straw For Asphalt Coated Mulch	TON	10	10											
111003	Emulsified Asphalt	GAL	1,000	1,000											
201320	CONSTRUCTION IDENTIFICATION SIGN	EACH	2	2											
ALTERNATE "A"															
058987	PIPE CULVERTS TYPE 2A RCCP 36"	LIN FT	122	122											
ALTERNATE "B"															
158134	PIPE CULVERTS TYPE 2A CMCP 36"	LIN FT	122	122											
NOTE: CORRECTED QUANTITIES															
1 30,215															
2 40															
3 4,305															
4 3,448															
5 122															
6 56															
7 172,489															
8 477															
9 477															
10 2,160															
11 1,197															
12 224															
13 995															
14 3.0															
15 0.10															
16 1.55															
17 7															
18 700															
19 5.0															
20 0.2															
21 5.1															
22 0.2															
23 0.3															
24 7.1															
25 850															
26 137															

Rev. 5/1/14 N.M.D. Deleted pipe culverts type 2A RCCP 36", added alternate pipe culverts

Added TRENCH BALANCE 713013 2014

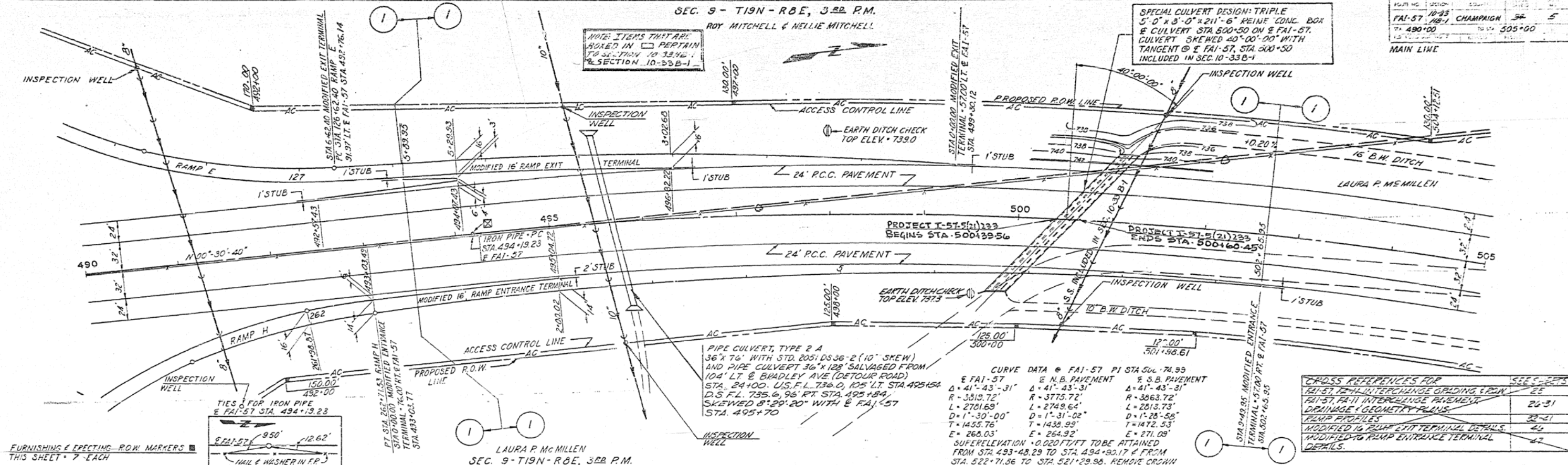
Rev. 4/1/14 N.M.D. Deleted 2 storm sewers 8" diameter, 15' length, added 2 storm sewers 8" diameter, 15' length, 15' length, deleted 340 cu. yd. exc. struct. from box culvert, etc. 100450 - 45'

SUMMARY OF QUANTITIES

SEC. 9 - T19N - R8E, 322 P.M.
ROY MITCHELL & NELLIE MITCHELL

PLAN NO. 10-35
FAI-57 10-35 CHAMPAIGN 34 5
TO STA. 490+00 TO STA. 505+00
MAIN LINE

DATE	BY	CHKD.
10/23/57	A.L.K.	A.L.K.
11/23/57	A.L.K.	A.L.K.
1/10/58	A.L.K.	A.L.K.
5/18/58	A.L.K.	A.L.K.
8/7/58	A.L.K.	A.L.K.
10/23/57	A.L.K.	A.L.K.
11/23/57	A.L.K.	A.L.K.
1/10/58	A.L.K.	A.L.K.
5/18/58	A.L.K.	A.L.K.
8/7/58	A.L.K.	A.L.K.



NOTE: ITEMS THAT ARE BOXED IN PERTAIN TO SECTION 10-33B-1

SPECIAL CULVERT DESIGN: TRIPLE 5'-0" x 3'-0" x 2'-6" REINFC. CONC. BOX & CULVERT STA. 500+50 ON E FAI-57. CULVERT SKEWED 40°-00' WITH TANGENT @ E FAI-57, STA. 500+50 INCLUDED IN SEC. 10-33B-1

PIPE CULVERT, TYPE 2 A 36" x 76" WITH STD. 2051 DS 36" x 2 (10" SKEW) AND PIPE CULVERT 36" x 128" SALVAGED FROM 100' LT. @ BRADLEY AVE (DETOUR ROAD) STA. 24+00. U.S.F.L. 736.0, 105' LT. STA. 495+54 D.S.F.L. 735.6, 96' RT. STA. 495+84 SKEWED 8°-20' WITH E FAI-57 STA. 495+70

CURVE DATA @ FAI-57 PI STA. 501+74.99

FAI-57	E.N.B. PAVEMENT	S.B. PAVEMENT
Δ = 41°-43'-31"	Δ = 41°-43'-31"	Δ = 41°-43'-31"
R = 3813.72'	R = 3775.72'	R = 3863.72'
L = 2701.69'	L = 2749.64'	L = 2813.73'
D = 1°-30'-00"	D = 1°-31'-02"	D = 1°-28'-58"
T = 1455.76'	T = 1438.99'	T = 1472.53'
E = 268.03'	E = 264.92'	E = 271.09'

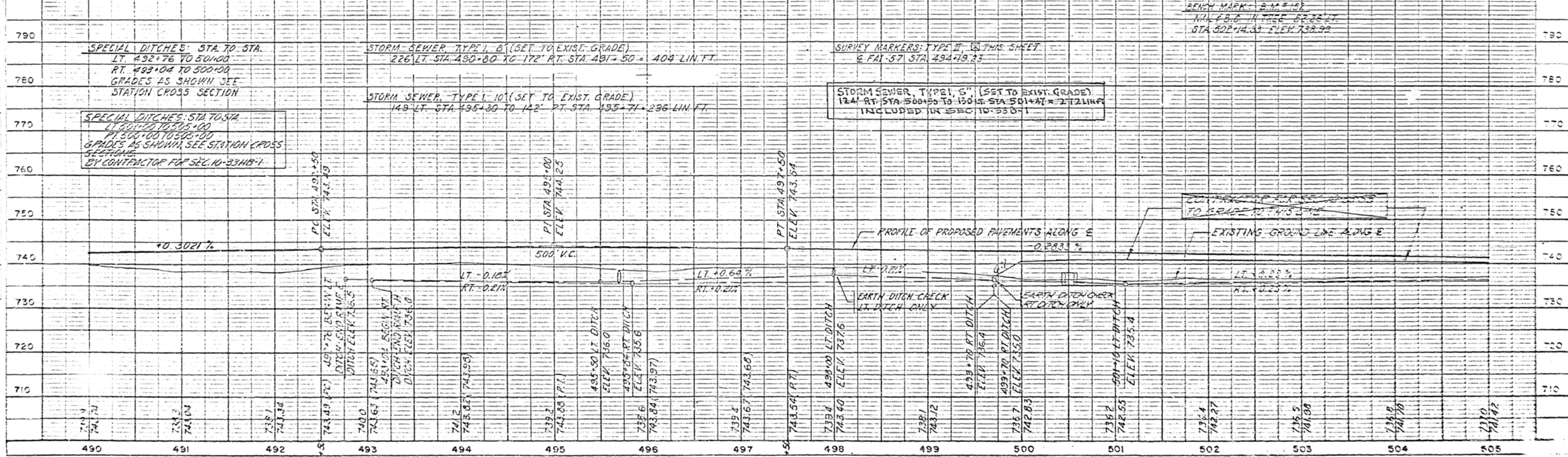
SUPERELEVATION: 0.020'/FT TO BE ATTAINED FROM STA. 493+48.29 TO STA. 494+90.17 & FROM STA. 522+71.66 TO STA. 521+29.98. REMOVE CROWN

CROSS REFERENCES FOR

FAI-57 FINAL INTERCHANGE GRADING EDGWN	25
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FURNISHING & ERECTING R.O.W. MARKERS THIS SHEET - 7 EACH

LAURA P. McMILLEN SEC. 9-T19N-R8E, 322 P.M.



SPECIAL DITCHES: STA. TO STA. LT. 492+76 TO 500+00 RT. 493+04 TO 500+00 GRADES AS SHOWN SEE STATION CROSS SECTION

STORM SEWER, TYPE 1, 6" (SET TO EXIST. GRADE) 226' LT. STA. 490+80 TO 172' RT. STA. 491+50 = 404 LIN. FT.

SURVEY MARKERS: TYPE II, THIS SHEET & FAI-57 STA. 494+19.33

SPECIAL DITCHES: STA. TO STA. LT. 500+00 TO 505+00 PI. 500+00 TO 505+00 GRADES AS SHOWN SEE STATION CROSS SECTION BY CONTRACTOR FOR SEC. 10-33B-1

STORM SEWER, TYPE 1, 10" (SET TO EXIST. GRADE) 149' LT. STA. 495+80 TO 142' RT. STA. 495+71 = 286 LIN. FT.

STORM SEWER, TYPE 1, 6" (SET TO EXIST. GRADE) 124' RT. STA. 500+50 TO 130' RT. STA. 501+47 = 272 LIN. FT. INCLUDED IN SEC. 10-33B-1

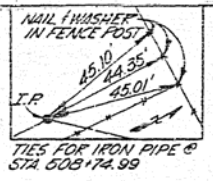
CONTRACTOR TO GRADE TO THIS LINE

SEC. 9-T19N-R8E, 3RD PM.
ROY MITCHELL AND NELLIE MITCHELL

SEC. 4-T19N-R8E, 3RD PM.
J.J. MATTINGLY ESTATE

BLK. NO.	SECTION	DATE	NO.
FAI-57	10-33	CHAMPAIGN	3
505-00			520-00
MAIN LINE			

CROSS REFERENCE FOR SEE SHEETS	
T.R. 175 (BRADLEY AVE) PIP	7-8
DETOUR ROAD PIP	7-5



SPECIAL BRIDGE DESIGN: 4 SPAN CONTINUOUS STEEL BEAM WITH CONCRETE DECK STRUCTURE 1 SPAN @ 45'-7" 1 SPAN @ 44'-10" AND 2 SPANS @ 72'-11" 24' ROADWAY WITH 2 CURBS @ 2'-10" & BRIDGE @ STA 509+01.62 & FAI-57 @ STA 26+15.19 & BRADLEY AVE. SKEWED 22°-12'-14" WITH TANGENT @ E. FAI-57 STA 508+31.52 BY CONTRACTOR FOR SEC. 10-33HB-1

CURVE DATA @ FAI-57 PI STA 508+74.99
 @ FAI-57 @ N.B. PAVEMENT @ S.B. PAVEMENT
 Δ = 41°-43'-31" Δ = 41°-43'-31" Δ = 41°-43'-31"
 R = 3819.72' R = 3775.72' R = 3863.72'
 L = 2781.49' L = 2749.64' L = 2813.73'
 D = 1°-30'-00" D = 1°-31'-02" D = 1°-28'-58"
 T = 1455.76' T = 1438.89' T = 1472.53'
 E = 268.05' E = 264.92' E = 271.09'
 SUPERELEVATION: 0.020 FT. PER FT. TO BE ATTAINED FROM STA 498+40.29 TO STA 494+90.17 AND FROM STA 522+71.86 TO STA 521+29.95 REMOVE CROWN

NOTE: ITEMS THAT ARE BOXED-IN PERTAIN TO SECTION 10-33HB-1

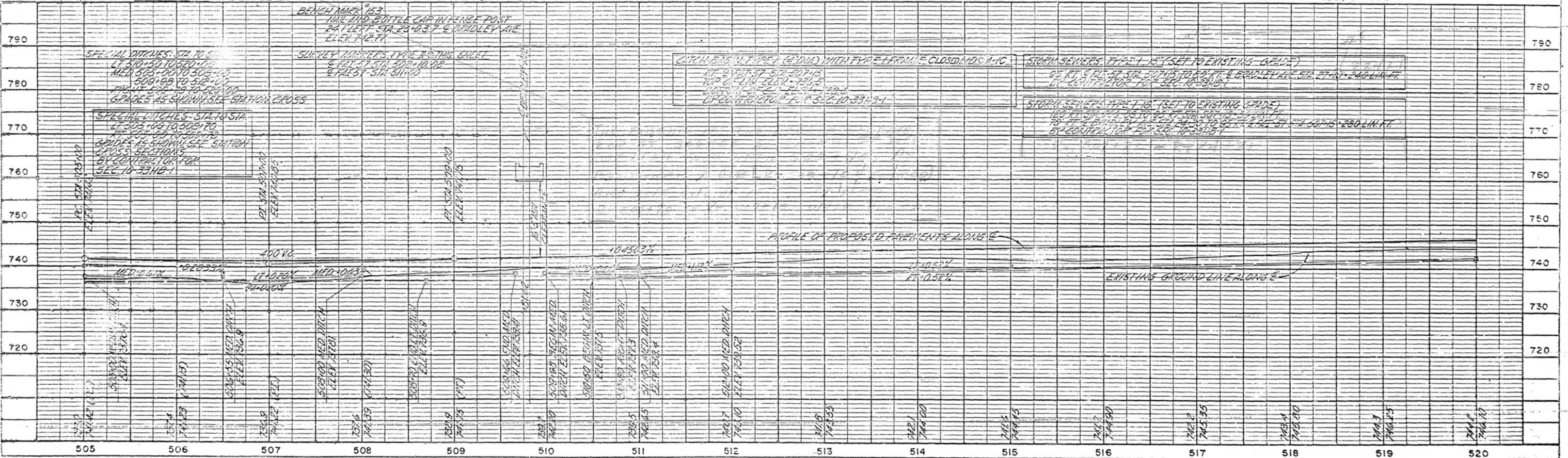
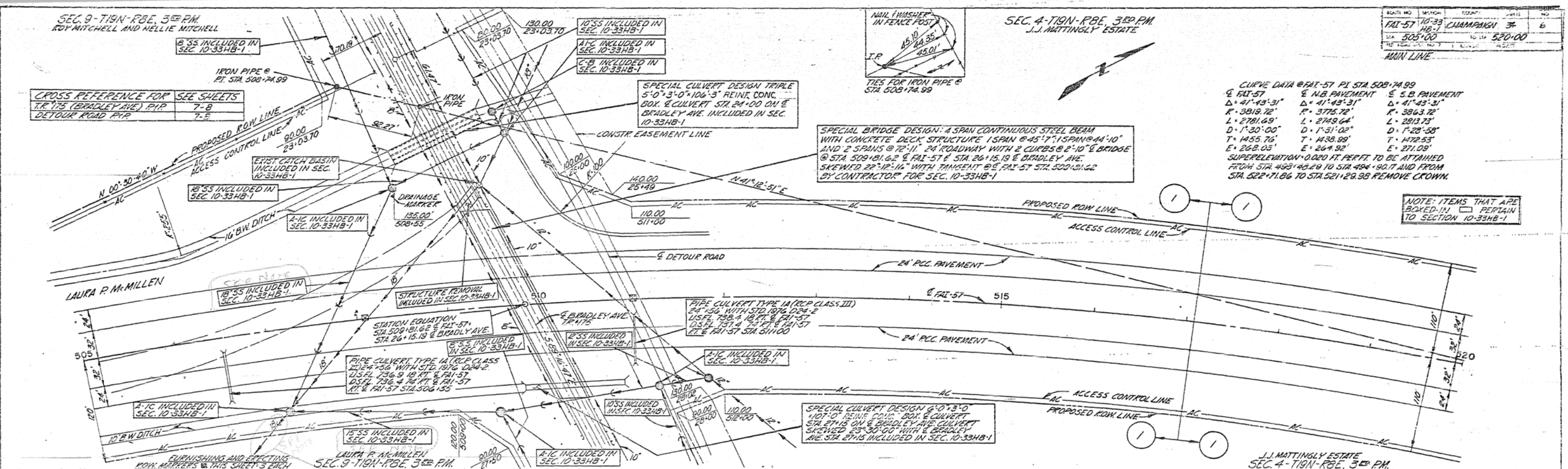
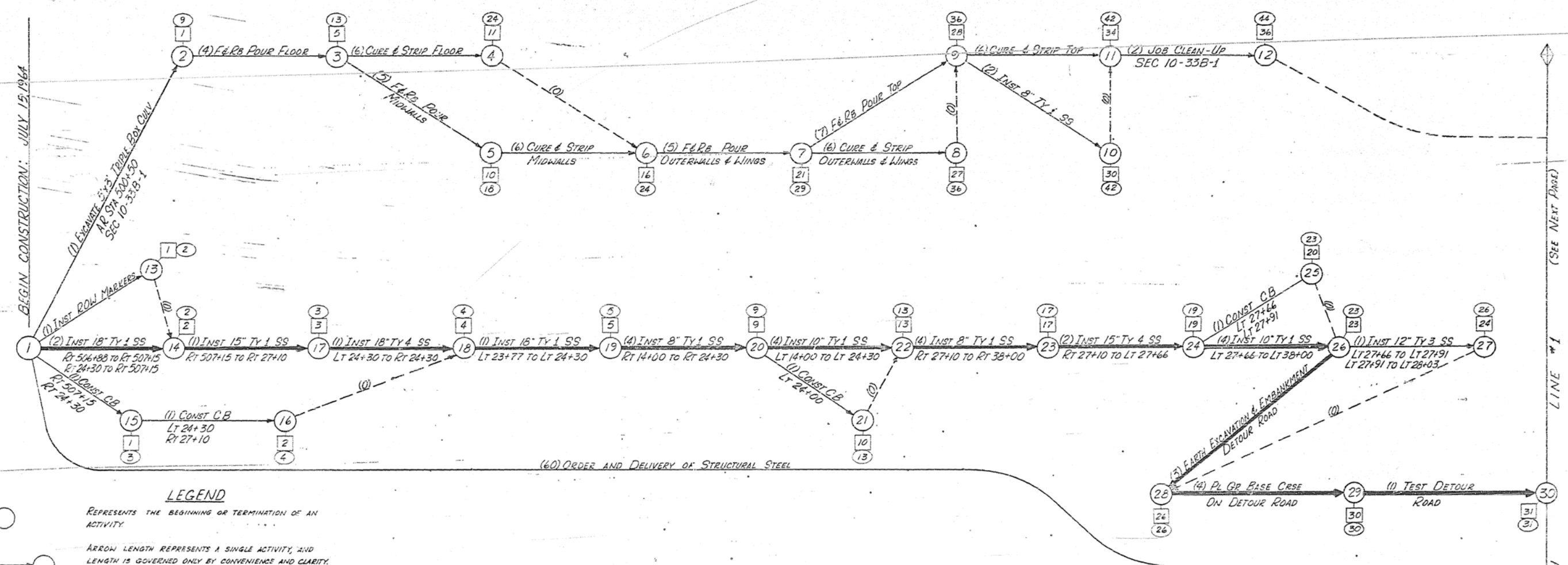


PLATE 1-PLAN PROFILE & P. & S. STANDARD
THE FREDERICK POST CO., CHICAGO



LEGEND

- REPRESENTS THE BEGINNING OR TERMINATION OF AN ACTIVITY.
- ARROW LENGTH REPRESENTS A SINGLE ACTIVITY, AND LENGTH IS GOVERNED ONLY BY CONVENIENCE AND CLARITY. ARROW DIRECTION INDICATES TIME PROGRESSION ONLY.
- ARROWS ORIGINATING AT A JUNCTION INDICATE ACTIVITIES THAT CAN BEGIN ONLY AFTER ALL ACTIVITIES TERMINATING AT THE JUNCTION HAVE BEEN COMPLETED.
- IF ONE EVENT TAKES PRECEDENCE OVER ANOTHER BUT THERE IS NO ACTIVITY RELATING THEM, A BROKEN LINE CALLED A DUMMY IS USED.
- EVENTS ARE DIFFERENTIATED BY NUMBERS WITHIN THE EVENT CIRCLE. EACH EVENT HAS A HIGHER NUMBER THAN THE IMMEDIATELY PRECEDING EVENT, AND NO TWO EVENTS HAVE THE SAME NUMBER.
- THE NUMBER SHOWN ENCLOSED BY PARENTHESIS INDICATES THE NUMBER OF WORKING DAYS REQUIRED TO COMPLETE THAT SINGLE ACTIVITY. THE SUMMATION OF WORKING DAYS REQUIRED TO REACH A CERTAIN EVENT ARE ENTERED WITHIN THE SQUARES (THE EARLIEST START TIME). THE LATEST FINISH TIME IS ENTERED WITHIN THE ELLIPSE.
- HEAVY LINE INDICATES THE CRITICAL PATH.

GENERAL NOTES

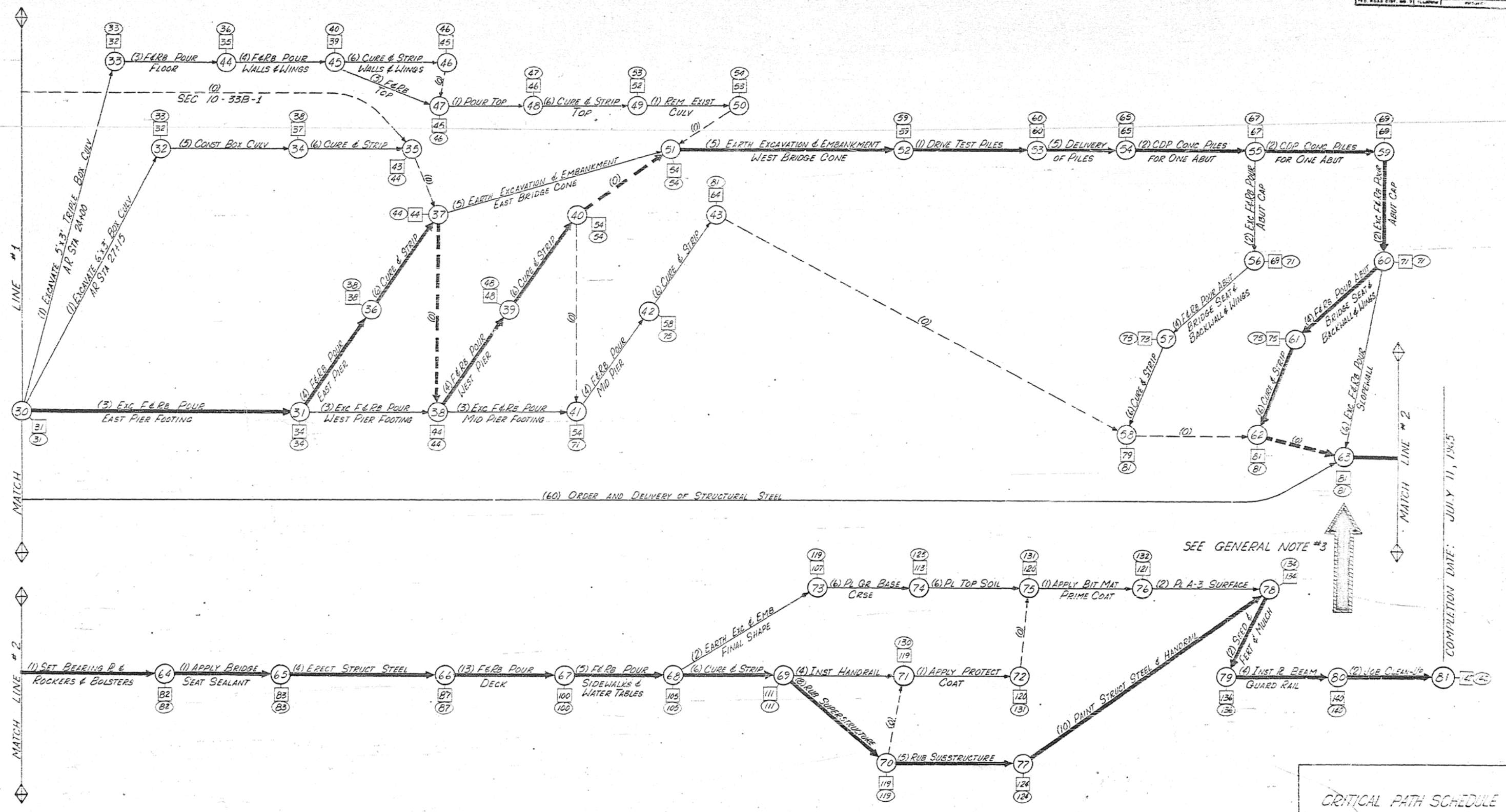
1. SEE SPECIAL PROVISIONS.
2. SOME MINOR ITEMS OF WORK INCLUDED IN THIS CONTRACT ARE NOT SHOWN ON THIS SCHEDULE. SUCH ITEMS OF WORK SHALL BE CONCURRENT WITH OTHER ITEMS OF WORK SO AS TO PERMIT THEIR COMPLETION WITHIN THE TIME ALLOTTED BY THIS SCHEDULE.
3. SUSPEND CONSTRUCTION - NOVEMBER 22, 1964
RESUME CONSTRUCTION - APRIL 1, 1965

ABBREVIATIONS

- ABUT ABUTMENT
- BIT BITUMINOUS
- CB CATCH BASIN
- C&D CORE & DRIVE & POUR
- CONST CONSTRUCT
- CRSE CURSE
- EMB EMBANKMENT
- Exc EXCAVATE
- F&R FORM & PLACE REINFORCEMENT BARS
- FERT FERTILIZE
- GR GRAVEL
- INST INSTALL
- MATL MATERIAL
- P PLATE(S)
- PL PLACE
- REM REMOVE
- SS STORM SEWER
- STRUCT STRUCTURAL
- TY TYPE

CRITICAL PATH SCHEDULE
F.A.I. ROUTE 57
 SECTION 10-33HB-1
 SECTION 10-33B-1
 COMPUTED BY BRW & WCP
 DRAWN BY MRK
 DATE APRIL 13, 1964
 (SHEET 1 OF 2) CONTRACT # 23 269

ROUTE NO.	SEC.	QUANTITY	P. FULL
FAI 57	10-33B-1	CHAMPAIGN	32 1/2 E
FED. ROAD DIST. NO.		ILLINOIS	



CRITICAL PATH SCHEDULE
 F.A.I. ROUTE 57
 SECTION 10-33B-1
 SECTION 10-33B-1
 (SHEET 2 OF 2)

COMPUTED BY BKW & WCP
 DRAWN BY MRK
 DATE APRIL 13, 1964

CONTRACT # 25269

SECTION NO.	SECTION	COUNTY	SHEETS	NO.
FAL-57	10-33	CHAMPAIGN	34	7
STA. 15+00	TO STA. 24+00			
TID. ROAD DIST. NO.	RD. DIST.	PROJECT		

PIPE CULVERT, 18" x 32" 24' LT. STA. 15+48
SALVAGED FROM 77' LT. STA. 15+49
BY CONTRACTOR FOR SEC. 10-33

SEC. 4-TIGN-RBE 3RD P.M.
MARBETH STOUT COX

CONTRACTOR FOR SEC. 10-33 HB-1 TO CONSTRUCT DETOUR ROAD
(SEE PROPOSED PROFILE THIS SHEET) AS SHOWN.

DETOUR ROAD TO BE REMOVED BY CONTRACTOR FOR SEC. 10-33 EXCEPT
FROM LEFT STA. 18+76 TO LEFT STA. 23+55 WHICH SHALL REMAIN AS AN ACCESS
ROAD.

PIPE CULVERT, TYPE 1, 18" x 32"
77' LT. STA. 15+49 P.E.

*TO BE SALVAGED BY CONTRACTOR FOR
SEC. 10-33 (RELAYED 24' LT. STA. 15+48
(SEE SPECIAL PROVISIONS))

PIPE CULVERT, TYPE 1, 12" x 64"
USFL 740.0 116' LT. & BRADLEY
DSFL 738.0 82' LT. & BRADLEY
LEFT & BRADLEY STA. 22+50

BRADLEY AVENUE
CONNECTION BY CONTRACTOR
FOR SEC. 10-33 HB-1
J.J. MATTINGLY ESTATE

CONSTRUCTION EASEMENT LINE

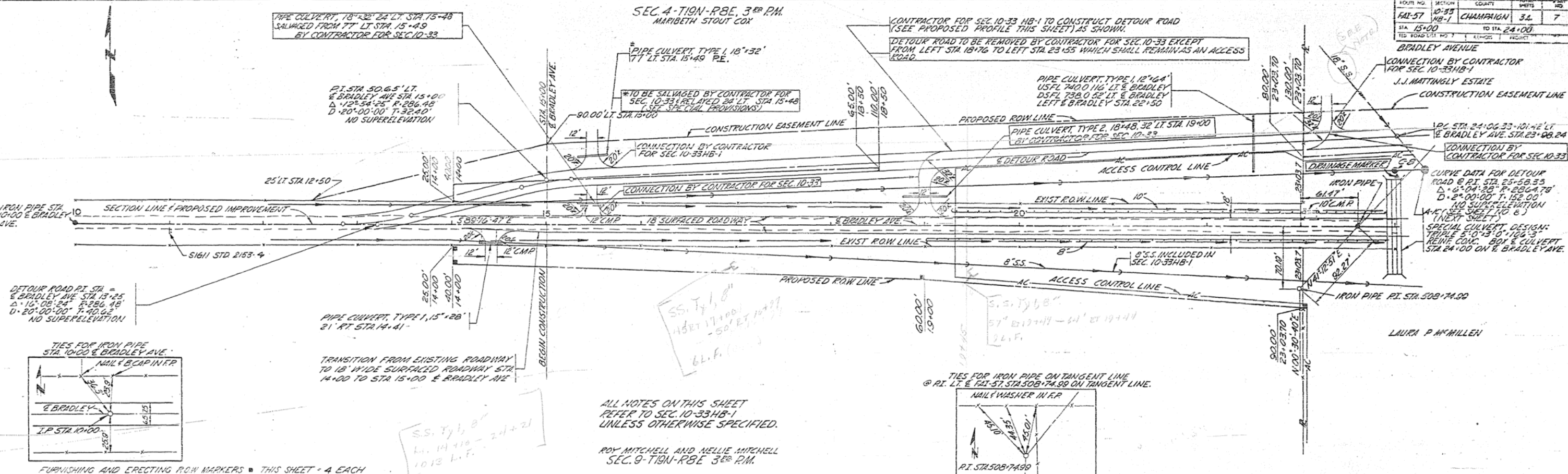
CONNECTION BY CONTRACTOR
FOR SEC. 10-33

CURVE DATA FOR DETOUR
ROAD @ PI STA. 25+58.55
R=604.38' P=286.47'
D=2100'00" T=152.00'
NO SUPERELEVATION
4" x 6" (SEE SHEET NO. 6)
(NEXT SHEET)
SPECIAL CULVERT DESIGN:
TRIPLE 8" x 13" x 10" x 3"
REINFC. CONC. BOX CULVERT
STA. 24+00 ON E. BRADLEY AVE.

LAURA P. McILLEN

DATE	BY	REV.	DESCRIPTION
6/10/10	MM	1	ISSUED FOR PERMITTING
6/10/10	MM	2	REVISED PER COMMENTS
6/10/10	MM	3	REVISED PER COMMENTS
6/10/10	MM	4	REVISED PER COMMENTS

PLAN
DATE: 6/10/10
BY: MM
REVISED PER COMMENTS



TRANSITION FROM EXISTING ROADWAY
TO 18' WIDE SURFACED ROADWAY STA.
14+00 TO STA. 15+00 & BRADLEY AVE

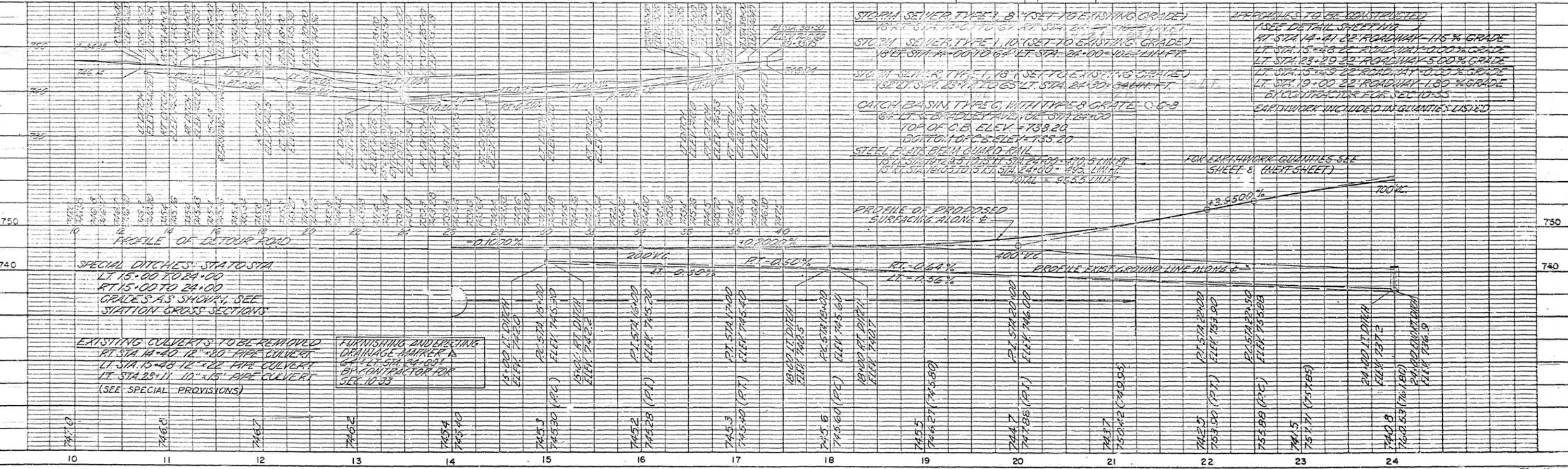
ALL NOTES ON THIS SHEET
REFER TO SEC. 10-33 HB-1
UNLESS OTHERWISE SPECIFIED.

ROY MITCHELL AND MELLIE MITCHELL
SEC. 9-TIGN-RBE 3RD P.M.

FURNISHING AND ERECTING ROW MARKERS - THIS SHEET - 4 EACH

DATE	BY	REV.	DESCRIPTION
6/10/10	MM	1	ISSUED FOR PERMITTING
6/10/10	MM	2	REVISED PER COMMENTS
6/10/10	MM	3	REVISED PER COMMENTS
6/10/10	MM	4	REVISED PER COMMENTS

PROFILE
DATE: 6/10/10
BY: MM
REVISED PER COMMENTS



- STORM SEWER TYPE 1, 8" (SET TO EXISTING GRADE)
18' LT. STA. 14+00 TO STA. 15+00
- STORM SEWER TYPE 1, 10" (SET TO EXISTING GRADE)
18' LT. STA. 15+00 TO STA. 16+00
- STORM SEWER TYPE 1, 18" (SET TO EXISTING GRADE)
132' LT. STA. 23+71 TO STA. 24+00
- CATCH BASIN TYPE C, WITH TYPE B GRATE @ C-3
6' x 8' & BRADLEY AVENUE @ STA. 24+00
TOP OF C.B. ELEV. = 738.20
BOTTOM OF C.B. ELEV. = 735.20
- STEEL PLATE BEAM GUARD RAIL
10' LT. STA. 18+76 TO STA. 24+00 - 170.5 LINE FT.
13' RT. STA. 18+76 TO STA. 24+00 - 180.0 LINE FT.
TOTAL = 306.5 LINE FT.

- APPROACHES TO BE CONSTRUCTED
(SEE DETAIL SHEET NO. 1)
- RT. STA. 14+21 22' ROADWAY - 11% GRADE
- LT. STA. 15+48 22' ROADWAY - 0.00% GRADE
- LT. STA. 23+29 22' ROADWAY - 5.00% GRADE
- LT. STA. 15+48 22' ROADWAY - 0.00% GRADE
- LT. STA. 19+00 22' ROADWAY - 1.00% GRADE
- BY CONTRACTOR FOR SEC. 10-33
- EARLY WORK INCLUDED IN QUANTITIES LISTED

FOR EARLY WORK QUANTITIES SEE
SHEET 8 (NEXT SHEET)

PROFILE OF PROPOSED
SURFACING ALONG E

PROFILE EXIST. GROUND LINE ALONG E

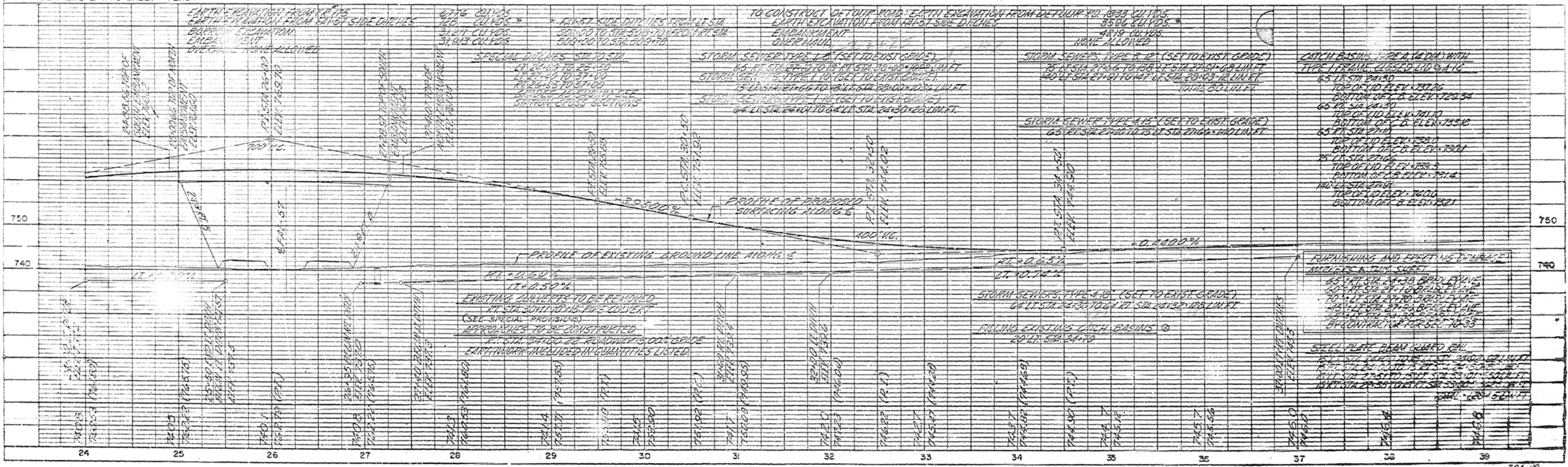
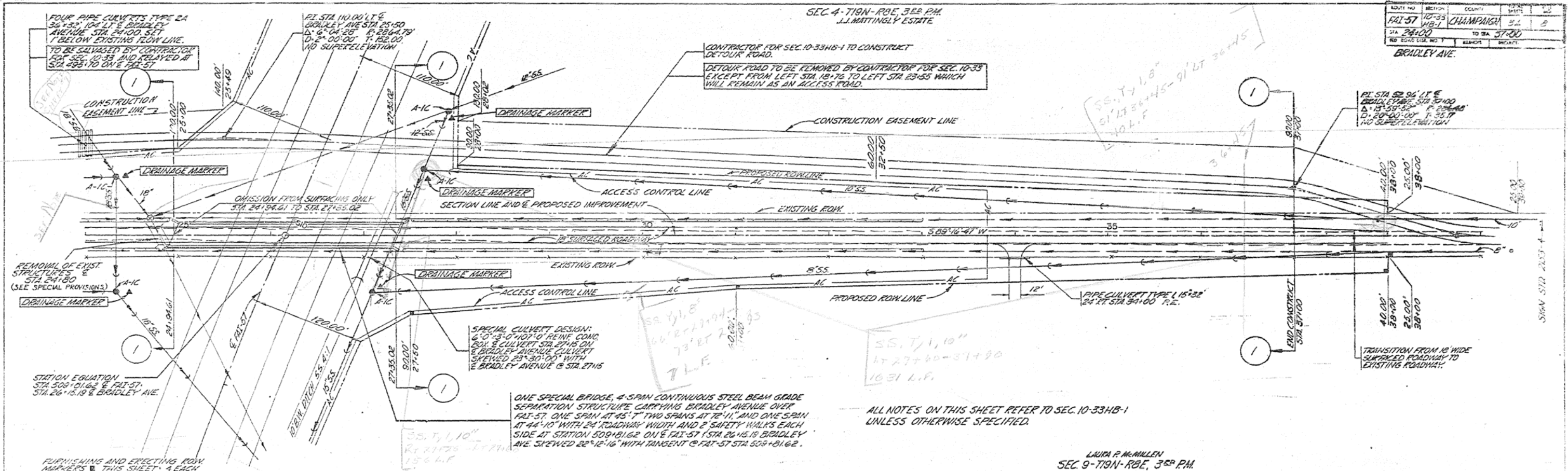
EXISTING CULVERTS TO BE REMOVED
RT. STA. 14+40 12" x 20" PIPE CULVERT
LT. STA. 15+48 12" x 22" PIPE CULVERT
LT. STA. 23+11 10" x 18" PIPE CULVERT
(SEE SPECIAL PROVISIONS)

FURNISHING AND ERECTING
DRAINAGE MARKER A
(SEE SPECIAL PROVISIONS)
BY CONTRACTOR FOR
SEC. 10-33

SEC 4-T19N-RBE, 3RD PH.
J.J. MATTINGLY ESTATE

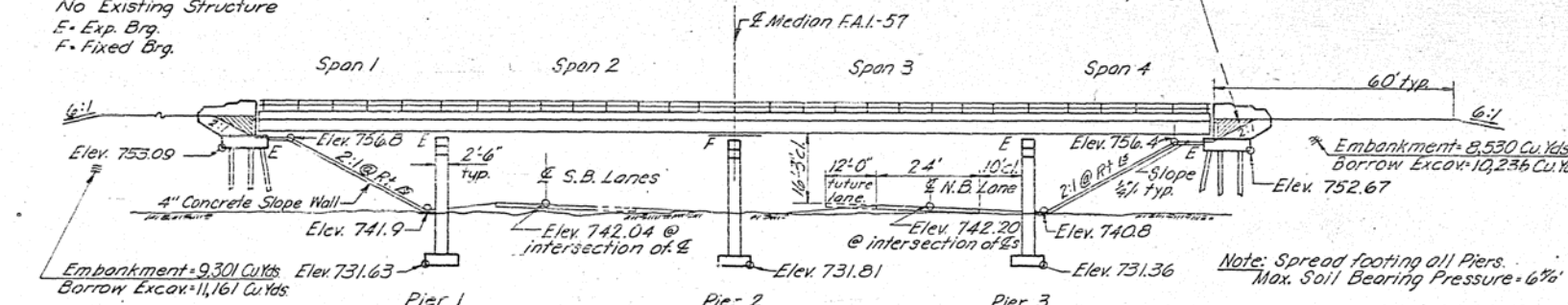
ROUTE NO	SECTION	COUNTY	TOWNSHIP	RANGE
FAI-57	107-35	CHAMPAIGN	3A	8
VIA	24+00	TO STA	57+00	
NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS	NO. OF SHEETS
1	1	1	1	1
BRADLEY AVE.				

PLAN	CONSIDERED	PLOTTED	CHECKED	DATE

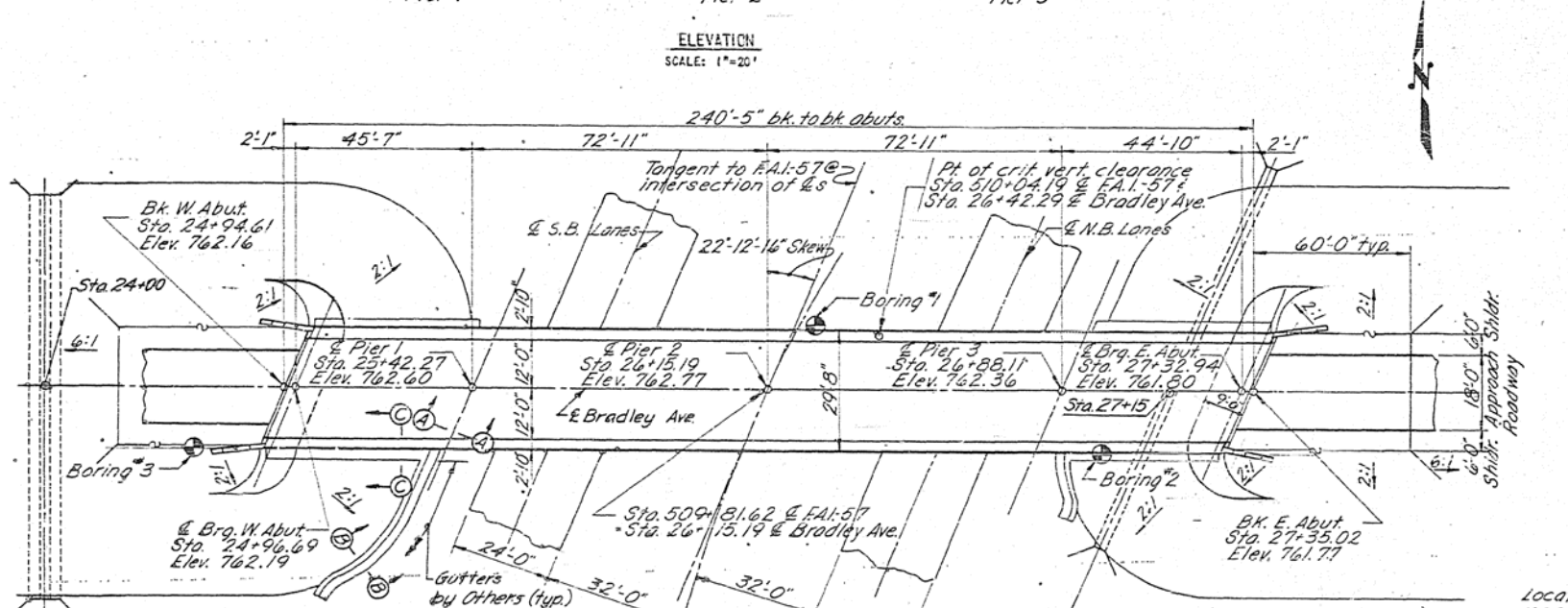


B.M. 152 nail bottle cap in tree E. 2.26' L. of & F.A.I.-57 Sta. 502+14.33 Elev. 738.99
No Existing Structure
E. Exp. Brg.
F. Fixed Brg.

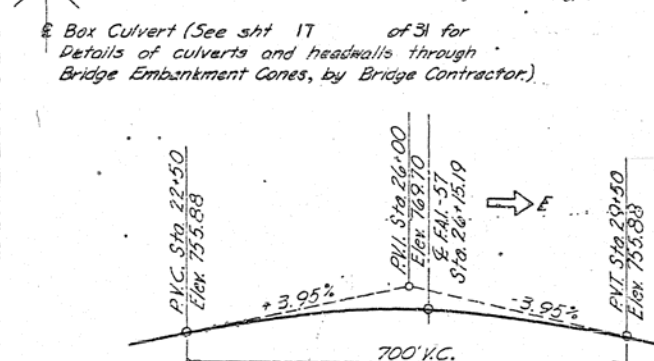
To be backfilled by Bridge Contractor after Abut. is in place.



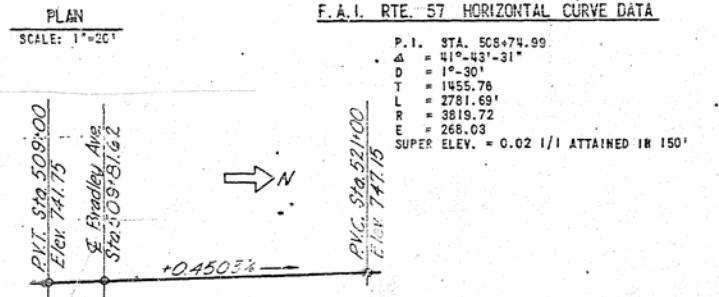
ELEVATION
SCALE: 1"=20'



PLAN
SCALE: 1"=20'



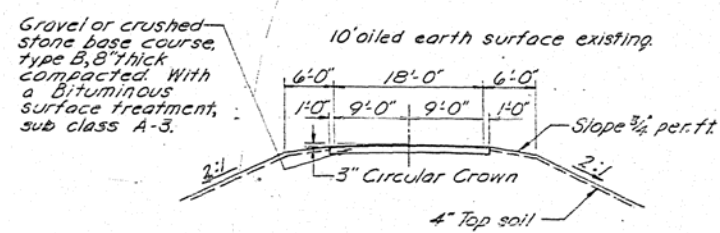
PROFILE OF BRADLEY AVE.



PROFILE OF F.A.I. 57

DESIGN STRESSES
 $f_c = 1400$ psi (SUPER & SUBSTRUCT)
 $f_s = 20,000$ psi (REINF.)
 $f_s = 20,000$ psi (STRUCT.) (A-36)
 $n = 10$
 $v = 75$ psi (FOOTING)
 L.L. DEF. = $L/1000$ (NON-COMPOSITE)
LOADING
 H15-S12-44

FUNCTIONS OF SKEW ANGLE
 $\cos 22^\circ-12'-16'' = 0.92584127$
 $\sin 22^\circ-12'-16'' = 0.37791261$
 $\tan 22^\circ-12'-16'' = 0.40618293$



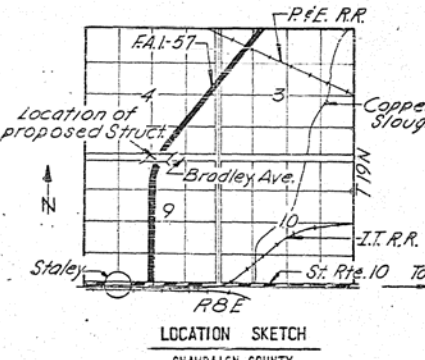
SECTION THRU BRADLEY AVE. AT APPROACHES

CLASS E ROAD
A.D.T. = 480 (1981)

BORING #1	STA. 26+21 15' LEFT OF E	N	Q _u	W	DESCRIPTION	BORING #2	STA. 27+38 15' RIGHT OF E	N	Q _u	W	DESCRIPTION
740.2	15	3.8	202		BLACK & BROWN SILTY CLAY FIRM	740.5	17	6.3	13.4		BLACK SILTY CLAY FIRM
730	20	4.4	122		WATER ELEV. AFTER 24 HOURS BROWN SANDY LOAM LOOSE BROWN MOTTLED SILTY CLAY VERY STIFF	730	14	3.4	10.5		GRAY SILTY CLAY FIRM
720	19	6.8	11.9		BROWN MOTTLED CLAY HARD	720	26	8.3	11.2		GRAY SILTY CLAY LOOSE
	20	5.4	11.2			720	25	6.3	11.5		BROWN GRAY MOTTLED CLAY HARD
	18	6.3	11.7		GRAY CLAY TILL HARD	720	17	5.8	11.4		GRAY CLAY TILL HARD
	18	3.9	11.5			720	29	4.9	11.1		
						720	25	3.9	12.4		

BORING #3	STA. 24+76 15' RIGHT OF E	N	Q _u	W	DESCRIPTION
739.3	15	-	-	-	BROWN SILTY CLAY FIRM
730	22	8.2	12.2		BROWN MOTTLED SILTY CLAY STIFF
720	22	7.8	11.6		BROWN MOTTLED CLAY HARD
	25	7.3	11.2		GRAY CLAY TILL HARD
	25	7.8	11.6		
	41	6.3	11.7		GRAY SILTY CLAY VERY STIFF
	23	3.0	13.8		
	22	4.9	12.6		GRAY CLAY TILL HARD

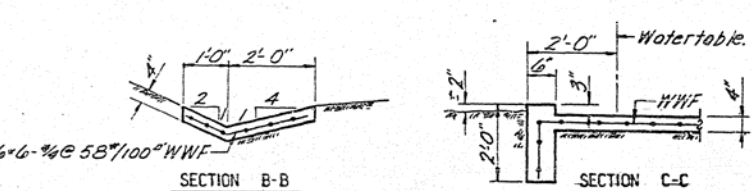
BORING DATA



LOCATION SKETCH
CHAMPAIGN COUNTY

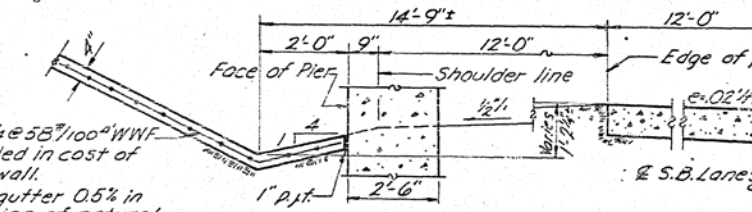
STATION 509+81.62 BUILT 196 BY STATE OF ILLINOIS
 F.A.I. RT. 57 SEC. 10-33NB-1
 F.A. PROJ. I-57-5(21)
 LOADING: H15-S12

NAME PLATE DATA
 SEE STANDARD 2113-1
 LOCATE AS SHOWN ON SHT. 4 OF 8



SECTION B-B

SECTION C-C



SECTION A-A

SLOPE WALL AND GUTTER DETAILS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
FAI-57	10-33NB-1	CHAMPAIGN	54	9

FED. ROAD DIST. NO. 7 ILLINOIS PROJECT I-57-5(21)

GENERAL NOTES

- SPECIFICATIONS: THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1953 AND THE REVISIONS THERETO SHALL APPLY.
- CONCRETE: CLASS X CONCRETE SHALL BE USED THROUGHOUT. THE CONCRETE FLOOR SHALL BE FURRED IN ONE CONTINUOUS OPERATION BETWEEN CONSTRUCTION JOINTS IN ACCORDANCE WITH ARTICLE 51.11 OF THE STANDARD SPECIFICATIONS AND SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.19. COARSE AGGREGATE WHICH IS TO BE USED IN CURB POSTS MUST BE FREE OF CRACK, FLINT LIMONITE, LIGHTS AND SOFT LIMESTONE.
- RIEVETS: 3/4" DIA., OPEN HOLES 13/16" DIA., UNLESS NOTED.
- PRECORING: HOLES SHALL BE PRECURED FOR THE ABUTMENT PILES IN ACCORDANCE WITH ARTICLE 60.9 (c) OF THE STANDARD SPECIFICATIONS.
- TEST PILES: THE CONTRACTOR SHALL DRIVE ONE CONCRETE TEST PILE AT EACH ABUTMENT IN PERMANENT LOCATION IN ACCORDANCE WITH ARTICLE 60.15 OF THE STANDARD SPECIFICATIONS BEFORE ORDERING THE REMAINDER OF THE PILES.
- PAINT: EXCEPT AS OTHERWISE PROVIDED ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT IN ACCORDANCE WITH ARTICLES 56.1 THROUGH 56.5 OF THE STANDARD SPECIFICATIONS. ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.

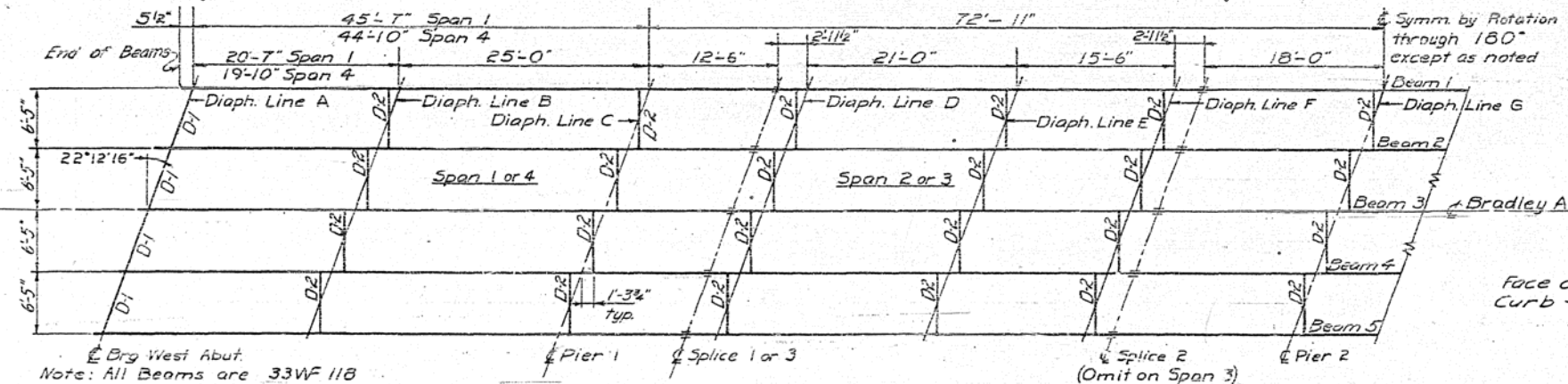
TOTAL BILL OF MATERIAL (FOR BRIDGE)

ITEM	UNIT	SUPER. STR.	SUB. STR.	TOTAL
CLASS X CONCRETE	CU. YD.	192.3	219.7	412.0
REINFORCEMENT BARS	LBS.	40,144	19,779	59,923
STRUCTURAL STEEL	LBS.	172,489		172,489
METAL HANDRAIL	LIN. FT.	476		476
NAME PLATES	EACH		2	2
SLOPE WALL	SQ. YD.		297	297
CLASS A EXCAV. FOR STRUCTS.	CU. YD.		308	308
*BORROW EXCAVATION	CU. YD.		21,397	21,397
CONCRETE PILES	LIN. FT.		400	400
TEST PILES (CONCRETE)	EACH		2	2
PROTECTIVE COAT	SQ. YDS.	840		840

* NO OVERHAUL WILL BE ALLOWED.

NO.	REVISION	BY	DATE
GENERAL PLAN AND ELEVATION			
SECTION 10-33NB-1		STATION 509+81.62	
F.A.I. RTE. 57		PROJECT	
CHAMPAIGN COUNTY			
CLARK, DAILY, DIETZ AND ASSOCIATES CONSULTING ENGINEERS URBANA, ILLINOIS			
DESIGNED C.B.P.	SCALE AS NOTED	SHEET 1	
DRAWN E.K.C.	DATE 3-26-1961	OF 8	
CHECKED C.B.P.			

ROUTE NO.	SECTION	COUNTY	SHEETS	NO.
F.A.I. 57	10-33HB-1	CHAMPAIGN	32	10
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		



STRUCTURAL STEEL FRAMING PLAN

TABLE OF TOP OF BEAM ELEVATIONS

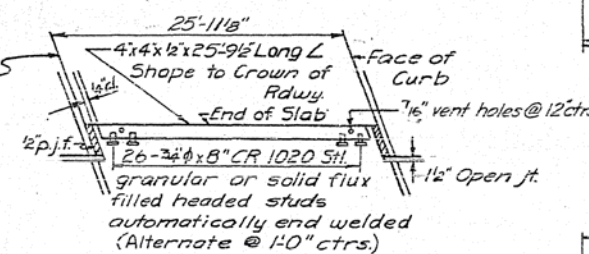
BEAM	W. ABUT.	PIER 1	SPLICE 1	SPLICE 2	PIER 2	SPLICE 3	PIER 3	E. ABUT.
1	761.552	761.569	762.075	762.137	762.059	761.796	761.623	761.047
2	761.641	762.042	762.152	762.227	762.154	761.909	761.748	761.176
3	761.648	762.062	762.175	762.263	762.195	761.968	761.812	761.253
4	761.550	762.008	762.125	762.226	762.163	761.953	761.801	761.255
5	761.459	761.901	762.022	762.134	762.077	761.886	761.737	761.204

NOTE: ELEVATIONS ARE TO TOP OF ROLLED BEAM FLANGE INCLUDING LOCATIONS WHERE SPLICE PLATES OR COVER PLATES ARE PRESENT. BEAMS ARE ASSUMED STRAIGHT BETWEEN SPLICES BEFORE DEAD LOAD DEFLECTION. DEAD LOAD DEFLECTION IS NOT INCLUDED.

TABLE OF FILL PLATES

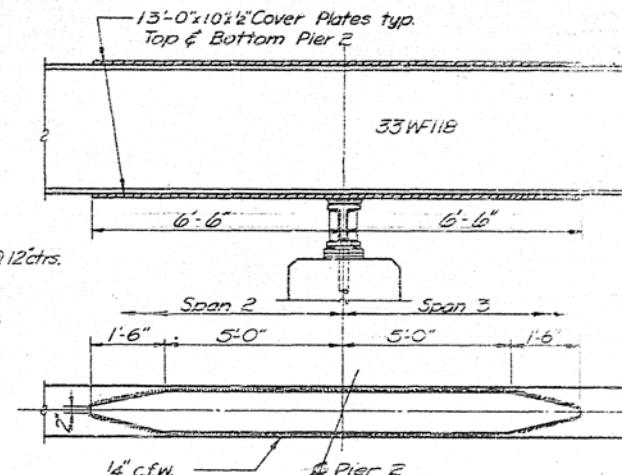
BEAM	WEST ABUT.	PIER 1	PIER 2	PIER 3	EAST ABUT.
1					
2	9' 1/2" x 20"			9' 1/2" x 20"	
3	9' 3/4" x 20"	9' 1/4" x 20"	9' 1/2" x 19"	9' 1/2" x 20"	9' 5/8" x 20"
4		9' 1/2" x 20"	9' 1/2" x 19"	9' 3/4" x 20"	9' 5/8" x 20"
5			9' 1/4" x 19"		

NOTE: NO FILL PLATES REQUIRED AT OTHER BEARING LOCATIONS.



DETAIL OF ARMOR ANGLE AT END OF SLAB

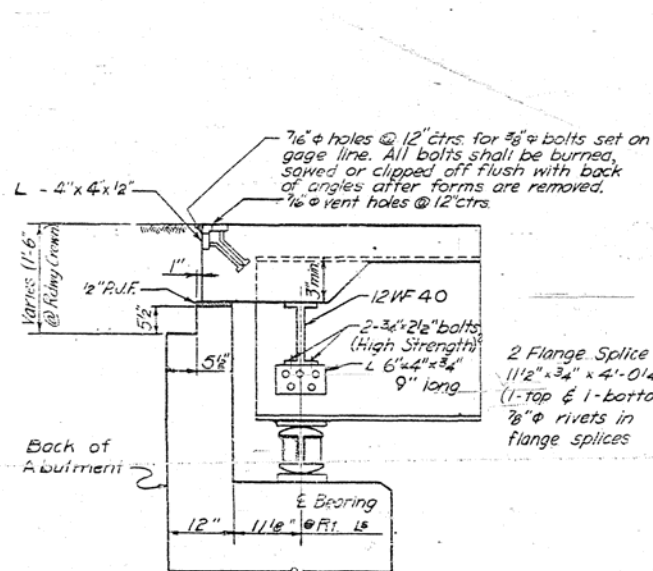
NOTE: THE ARMOR ANGLE DEVICE SHALL BE FABRICATED TO FIT THE ROADWAY. ALL SURFACES SHALL RECEIVE TWO SHOP COATS OF RED LEAD PAINT, EXCEPT THE STUDS. THE STUDS SHALL NOT BE PAINTED.



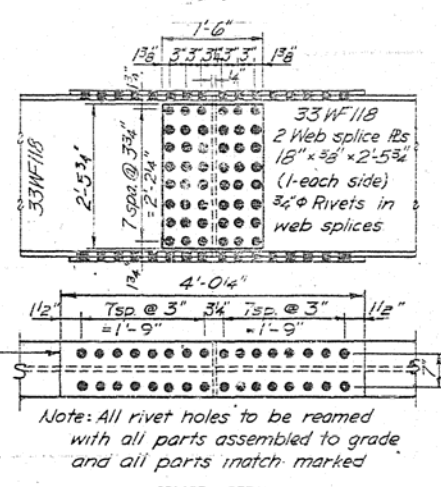
COVER PLATE DETAILS (10 PLATES REQ'D)

NOTES

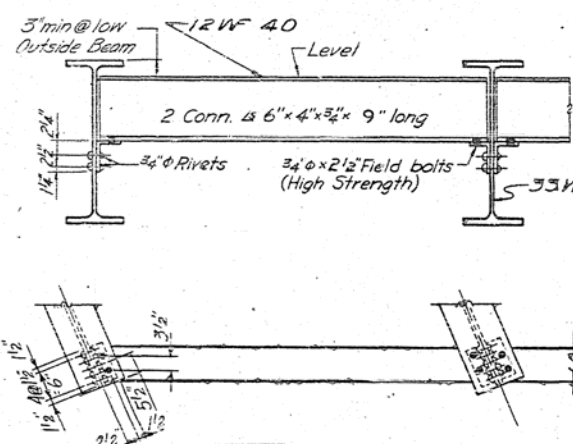
- BEAMS ARE NOT TO BE CAMBERED FOR DEAD LOAD DEFLECTION BUT ADVANTAGE OF NATURAL CAMBER IS TO BE TAKEN.
- ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER PIERS AND ABUTMENTS. SEE ARTICLE 54.8(f) FOR SETTING OF MASONRY BEARING PLATES AND ANCHOR BOLTS.
- ALL ROCKERS, BEARING PLATES, LEAD PLATES, ANCHOR BOLTS, PINTLES AND WASHERS SHALL BE FABRICATED, PAINTED AND SET IN ACCORDANCE WITH ARTICLE 51.15 AND ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL.
- HIGH STRENGTH BOLTS MAY BE SUBSTITUTED FOR FIELD RIVETS IN ACCORDANCE WITH ARTICLE 54.9(1) OF THE STANDARD SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO A-36 STEEL.



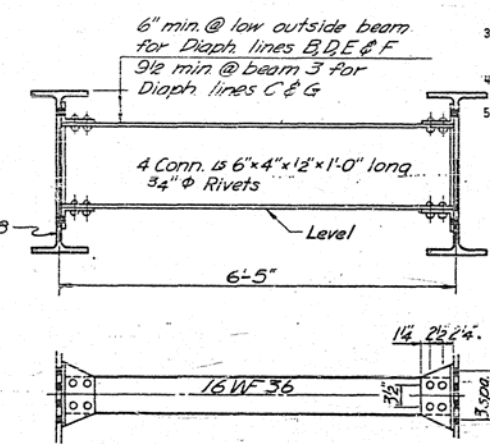
DETAIL AT ABUTMENTS (SEE SHEET #5)



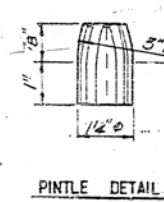
SPLICE DETAIL 15 REQ'D



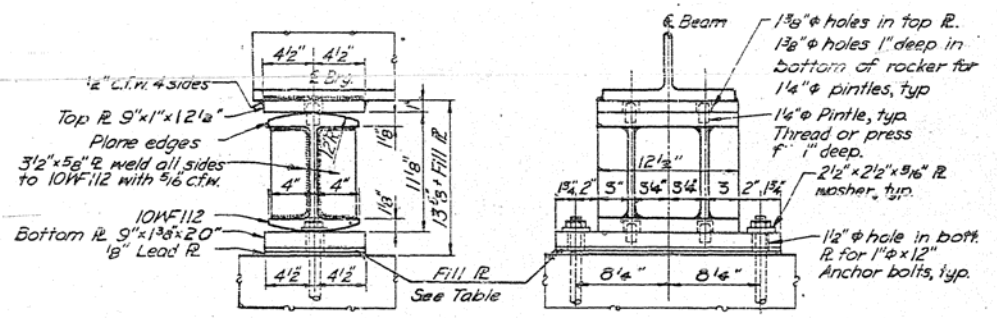
END DIAPHRAGM D-1, 8 REQ'D



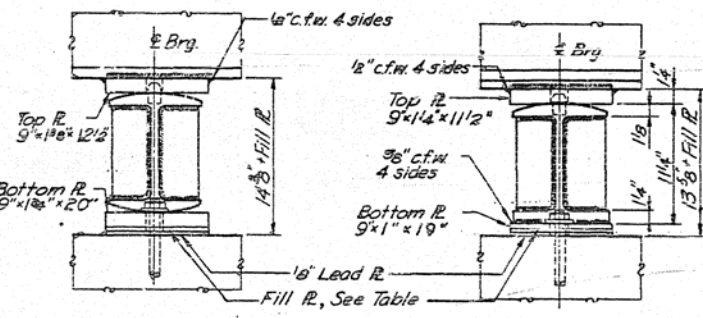
INTERIOR DIAPHRAGM D-2 44 REQ'D



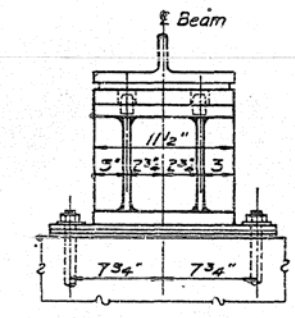
PINTLE DETAIL



EXPANSION BEARING AT ABUTMENTS - 10 REQ'D



EXPANSION BEARING AT PIERS 1 & 3 - 10 REQ'D



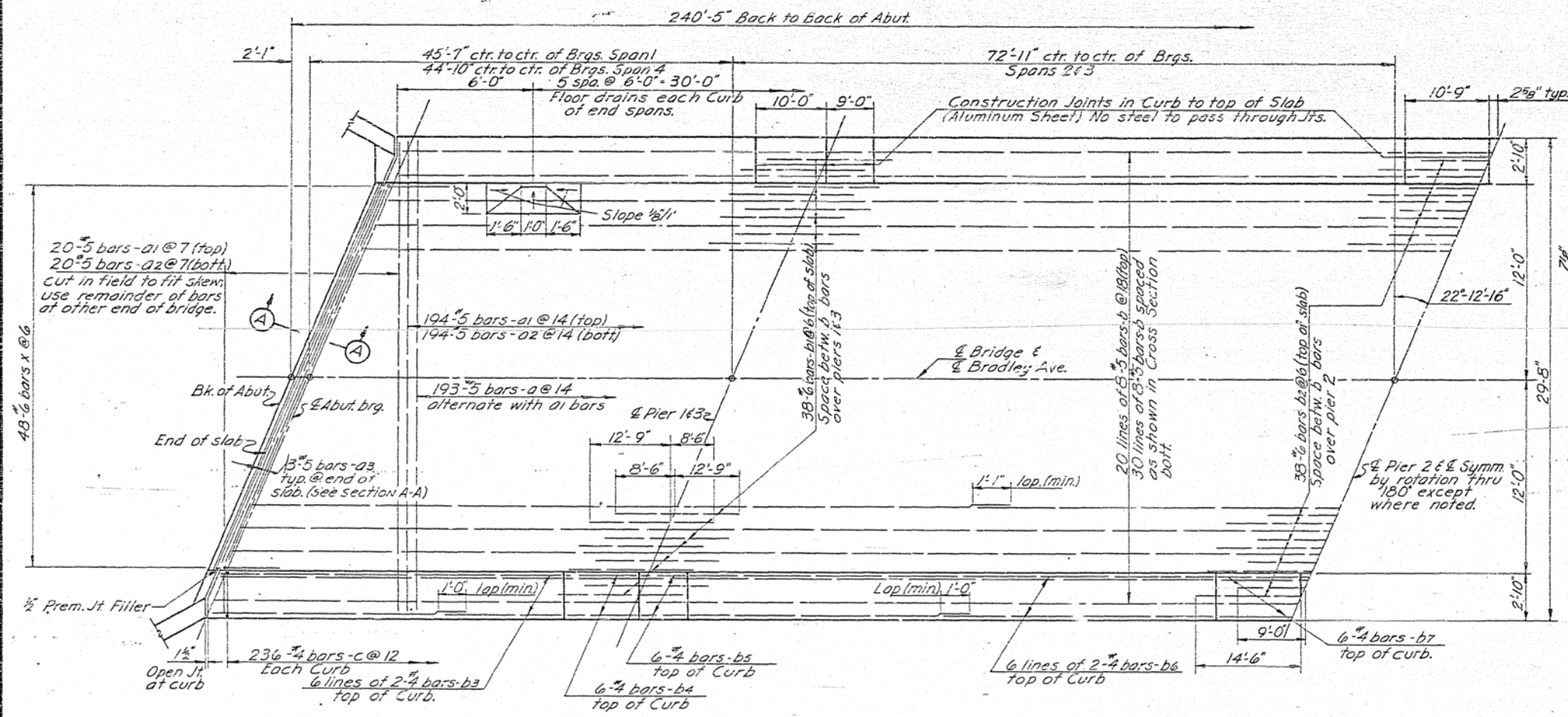
FIXED BEARING AT PIER 2 - 5 REQ'D

BILL OF MATERIAL

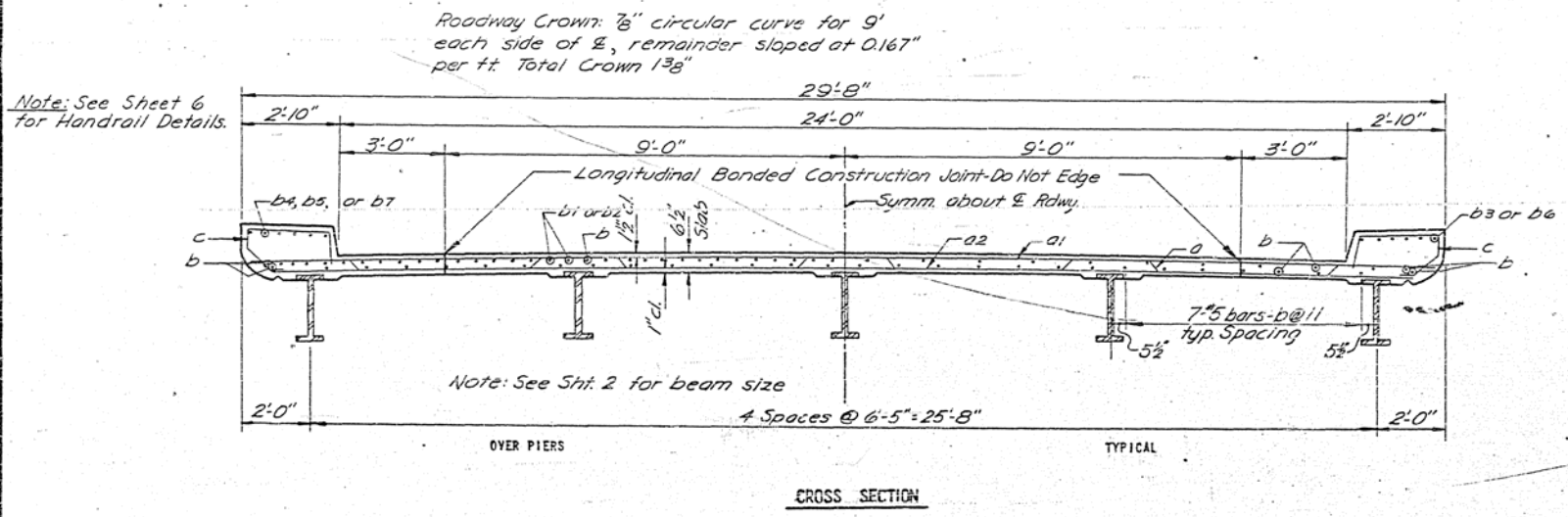
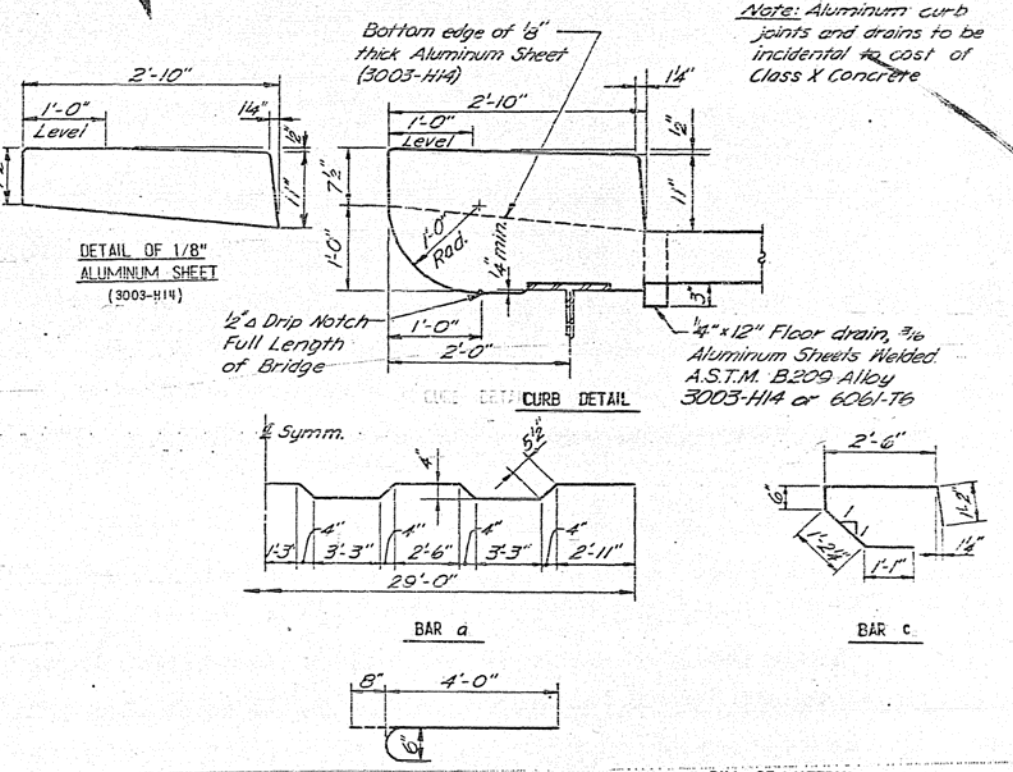
ITEM	UNIT	QUANTITY
STRUCTURAL STEEL IN GIRDERS	LBS.	142,443
STRUCTURAL STEEL IN DIAPHRAGM	LBS.	16,155
STRUCTURAL STEEL IN BEARINGS	LBS.	7,173
STRUCTURAL STEEL IN ARMOR ANGLES	LBS.	718
TOTAL STRUCTURAL STEEL	LBS.	172,489

STEEL FRAMING PLAN
F.A.I. RTE. 57 SEC. 10-33HB-1
CHAMPAIGN COUNTY
STA. 509+81.62

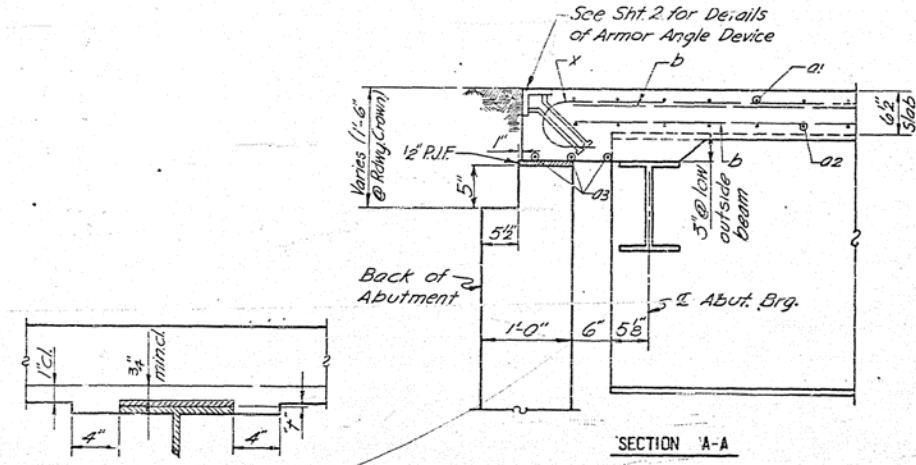
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-57	10-33HB-1	CHAMPAIGN	34	11
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		



HALF PLAN



CROSS SECTION



SECTION 'A-A'

METHOD OF DETERMINING FILLET HEIGHT *†*

NOTE: AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED ELEVATION OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT STATIONS SHOWN ON SHEET 7. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS" SHOWN ON SHEET 7, MINUS FLOOR THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP OF BEAMS.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	193	#5	30'-0"	
a1	214	#5	29'-0"	
a2	214	#5	28'-6"	
a3	6	#5	25'-6"	
b	400	#5	30'-0"	
b1	76	#6	21'-3"	
b2	38	#6	23'-6"	
b3	48	#4	18'-6"	
b4	24	#4	9'-9"	
b5	24	#4	8'-9"	
b6	48	#4	27'-6"	
b7	24	#4	10'-6"	
c	472	#4	6'-6"	C
x	96	#6	4'-8"	C
CLASS X CONCRETE			CU. YDS.	192.3
REINFORCEMENT BARS			LBS.	49,144
PROTECTIVE COAT			SQ. YDS.	840

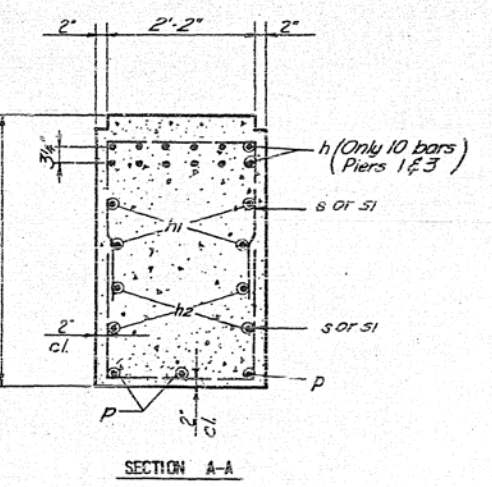
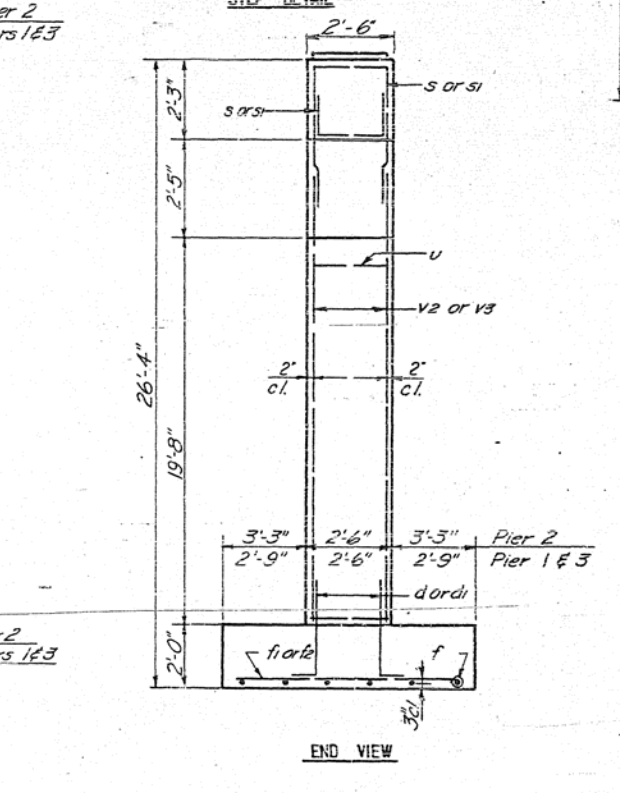
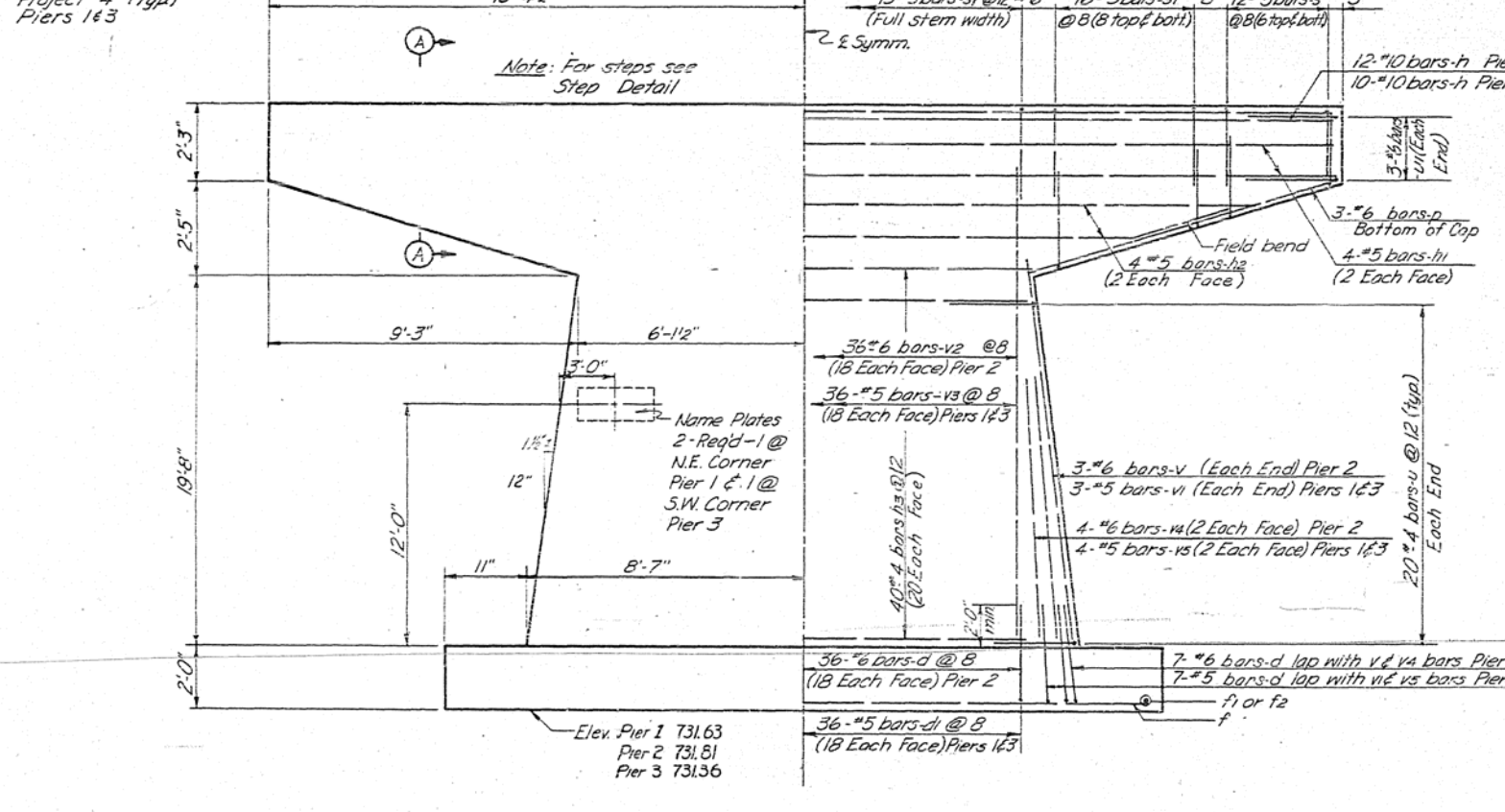
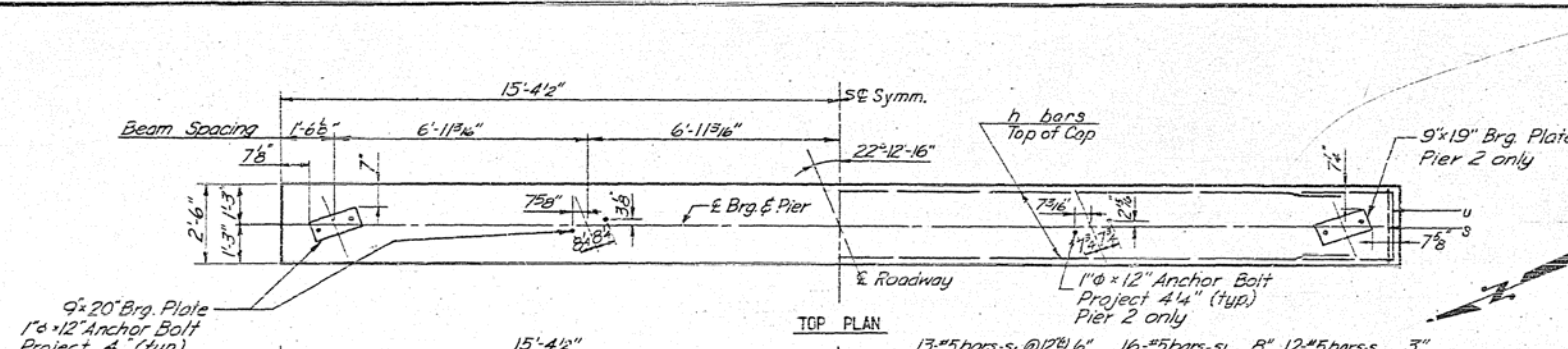
SUPERSTRUCTURE
 FAI.RTE.57 SEC.10-33HB-1
 CHAMPAIGN COUNTY
 STA. 509+81.62

DESIGNED BY: T.K.C. DATE: 1/22/62
 CHECKED BY: C.R.P. DATE: 1/24/62
 DRAWN BY: M.F.F. DATE: 1/24/62

ROUTE NO. SECTION	COUNTY	TOWNSHIP	SHEET NO.
FAL 57 10-33HB-1	CHAMPAIGN	34	4
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT

Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
Elev. 758.03	Elev. 758.11	Elev. 758.03	Elev. 757.96	
5'-0"	13'-10"	6'-11"	5'-0"	

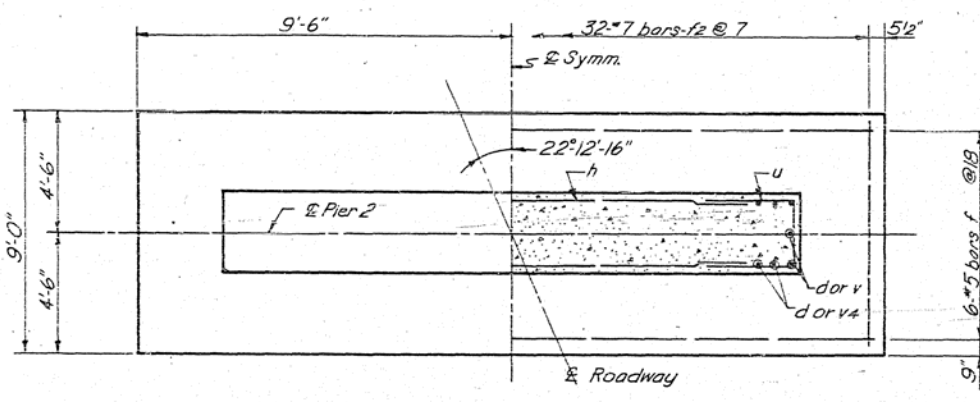
Elev. 758.14	Elev. 758.24	Elev. 758.14	
5'-0"	20'-9"	5'-0"	
Elev. 757.70	Elev. 757.80	Elev. 757.88	Elev. 757.80
5'-0"	6'-11"	6'-11"	11'-11"



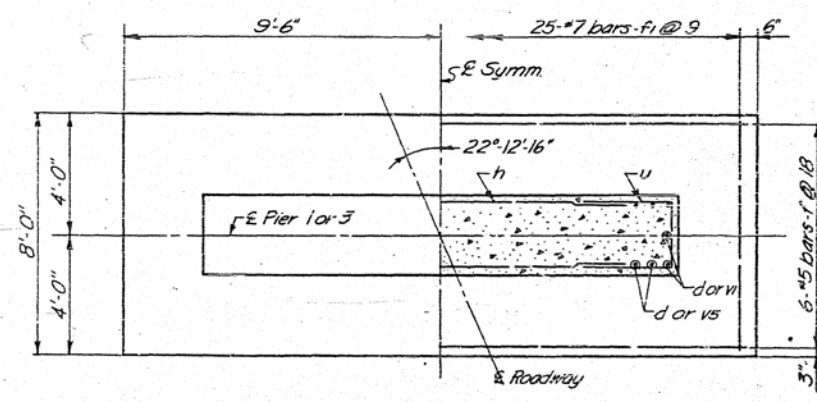
ALL EDGES SHALL HAVE STANDARD CHAMFERS EXCEPT FOOTINGS.

BILL OF MATERIAL (8 PIERS)

BAR	NO.	SIZE	LENGTH	SHAPE
d	50	#6	4'-6"	
di	100	#5	4'-6"	
f	18	#5	18'-6"	
f1	50	#7	7'-6"	
f2	32	#7	8'-6"	
h	32	#10	30'-3"	
hi	12	#5	30'-3"	
h2	12	#5	22'-0"	
h3	120	#4	12'-0"	
p	18	#6	11'-0"	
s	72	#5	6'-2"	
si	135	#5	7'-11"	
u	120	#4	8'-2"	
ui	18	#6	8'-2"	
v	6	#6	22'-0"	
vi	12	#5	22'-0"	
v2	36	#6	24'-0"	
v3	72	#5	24'-0"	
v4	8	#6	14'-0"	
v5	16	#5	14'-0"	
CLASS X CONCRETE	CU. YDS.	145.9		
REINFORCEMENT BARS	LBS.	12,925		
CLASS A EXCAV. FOR STRUCTS CU. YDS.		30.5		
NAME PLATES	EACH	2		



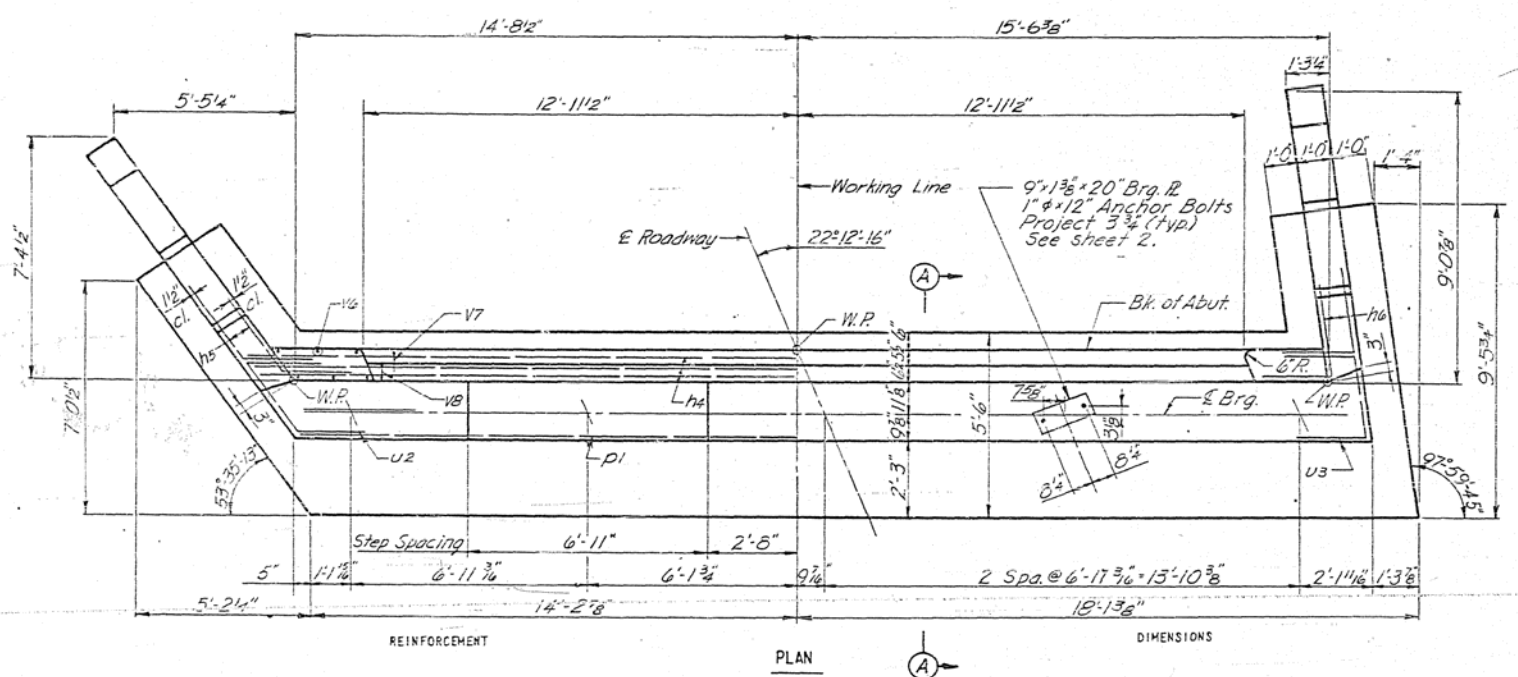
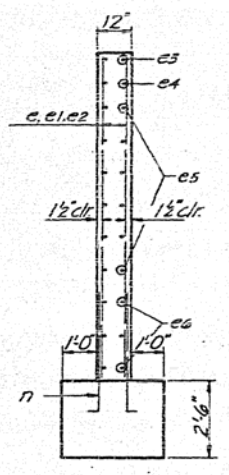
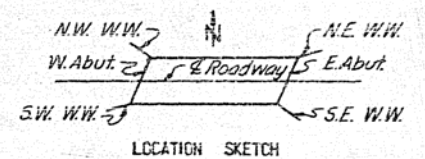
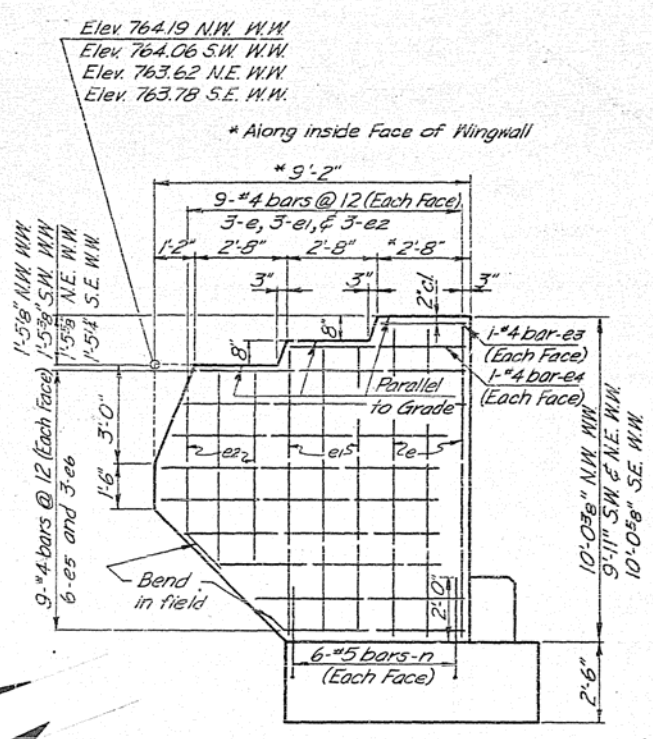
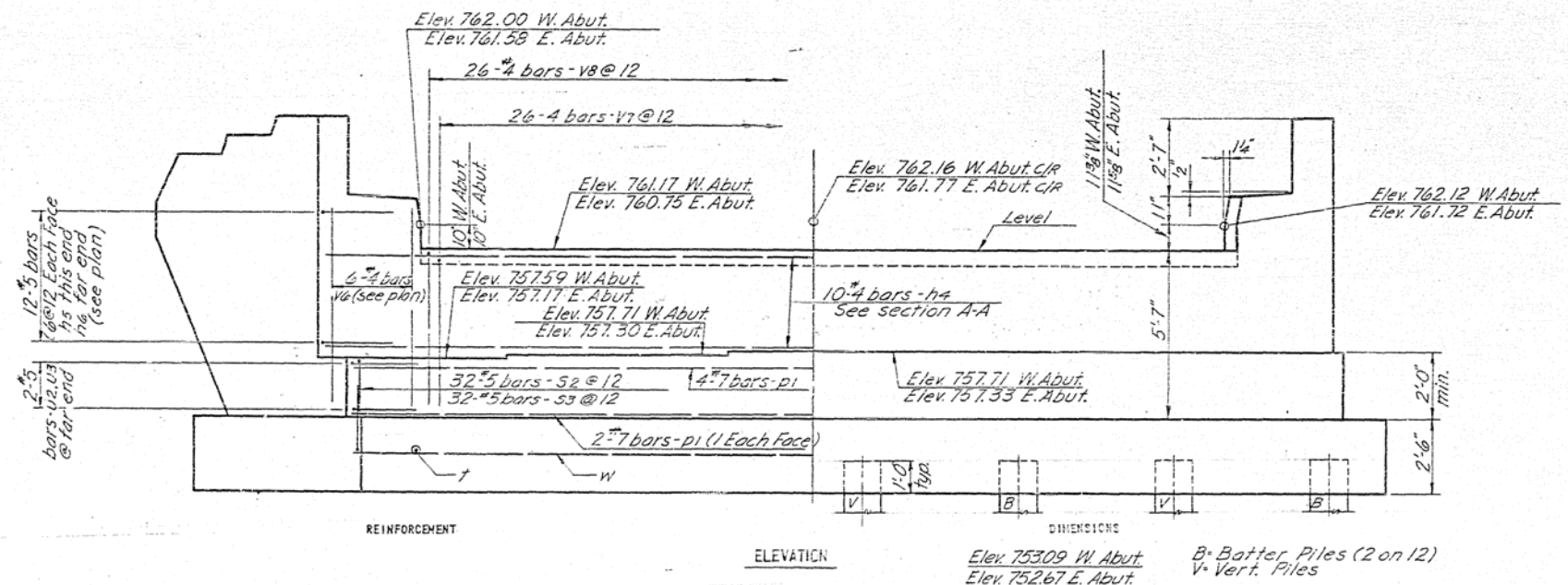
FOOTING PLAN PIER 2
MAX. SOIL BEARING PRESSURE = 6 ksf



FOOTING PLAN PIERS 1 & 3
MAX. SOIL BEARING PRESSURE = 6 ksf

PIERS
FAL RTE. 57 SEC. 10-33HB-1
CHAMPAIGN COUNTY
STA. 509+81.62

DESIGNED BY: DATE CHECKED BY: DATE IN CHARGE: E.C.H. 7.11.57 J.A.C. 8.1.57 F.D.S. 8.2.57 M.F.T. 8.2.57



PILE DATA

TYPE: CONCRETE. SEE SPEC. PROVISIONS FOR OPTIONAL TYPES.

CAPACITY: 25 TON MIN.

ESTIMATED LENGTH: 25 FEET

NO. REQ'D: 16 (DOES NOT INCLUDE TEST PILES)

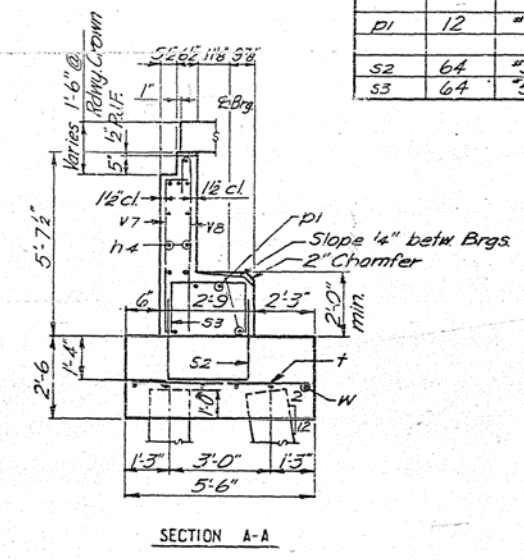
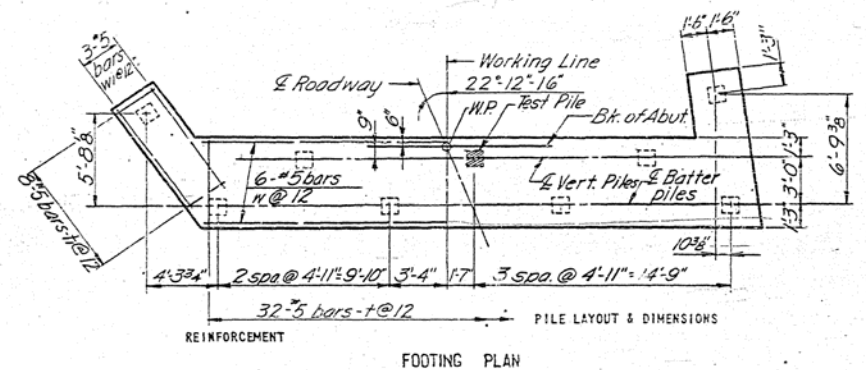
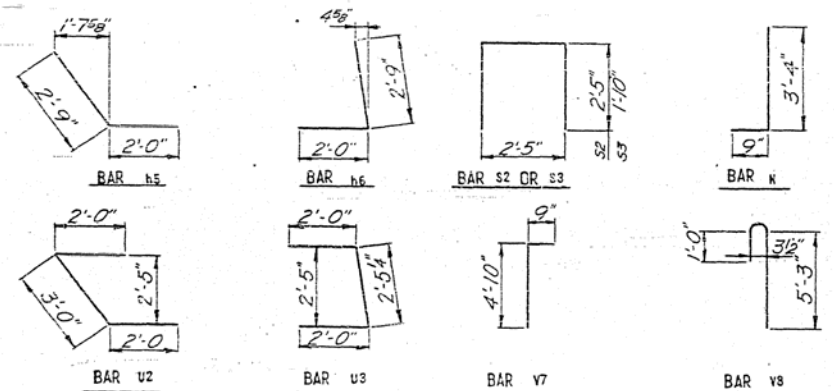
TEST PILES: 2 (1 EACH ABUT.)

BILL OF MATERIAL
 (TWO ABUTMENTS)

BAR NO.	SIZE	LENGTH	SHAPE	BAR NO.	SIZE	LENGTH	SHAPE
e	24	9-7"	T	t	64	5	5-0"
e1	24	8-10"	T	t1	32	5	2-6"
e2	24	6-6"	T	u2	4	5	7-0"
e3	8	2-3"	T	u3	4	5	6-6"
e4	8	5-0"	T	v6	24	4	6-9"
e5	48	7-8"	T	v7	52	4	5-7"
e6	24	6-4"	T	v8	32	4	6-9"
h4	20	31-6"	T	w	12	5	31-0"
h5	24	4-9"	T	w1	12	5	7-3"
h6	24	4-9"	T				
n	48	4-1"	T				
p1	12	31-3"	T				
s2	64	5	T				
s3	64	5	T				

CLASS X CONCRETE CU. YDS. 698
 REINFORCEMENT BARS LBS. 4794
 CONCRETE PILES LIN. FT. 400
 TEST PILES (CONCRETE) EACH 2

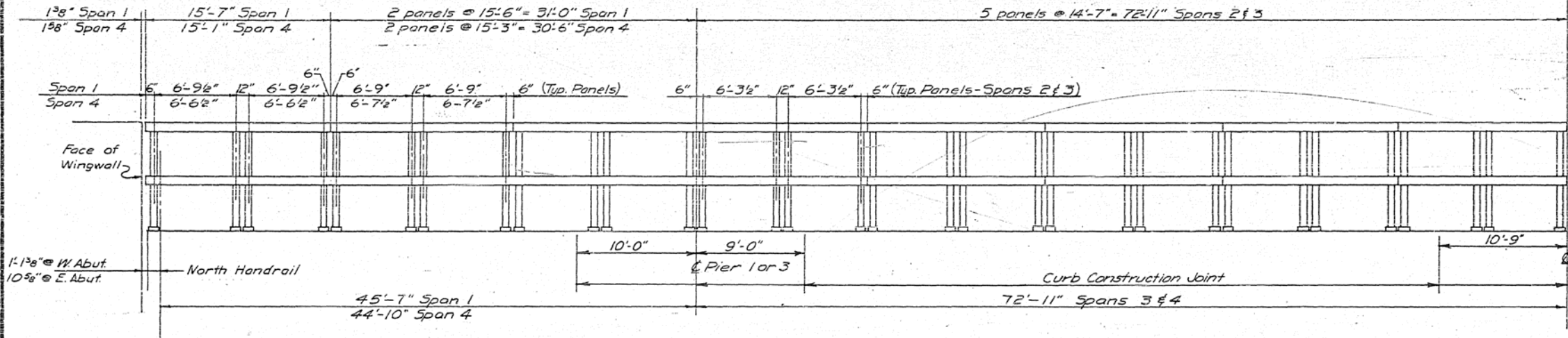
DESIGNED BY: DATE: CHECKED BY: DATE: IN CHARGE:
 E.L.M. S.P.S. 3/14/42 L.H.I. 3/22/42 M.F.T.
 2, 6, 6, B



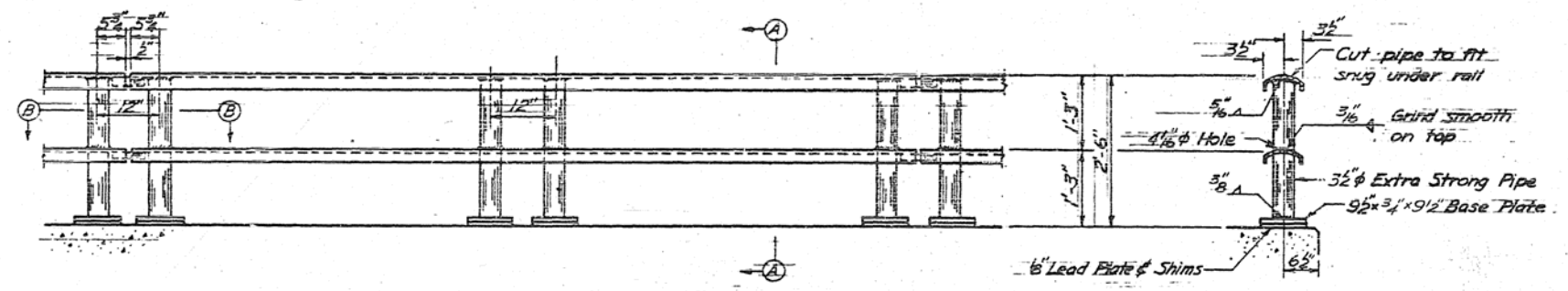
ABUTMENTS
 F.A.I. RTE. 57 SEC. 10-33HB-1
 CHAMPAIGN COUNTY.
 STA. 509 + 81.62

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	10-33HS	CHAMPAIGN	51	14
FED. ROAD DIST. NO.		ELLIPICAL PROJECT		

- GENERAL NOTES**
- AFTER ERECTION ALL BOLTS AND WASHERS SHALL BE SPOT PAINTED WITH ONE COAT OF RED LEAD AND TWO COATS OF ALUMINUM PAINT.
 - PROVIDE 1-1/8" AND 2-1/16" SHIMS FOR ENDS OF THE POSTS.

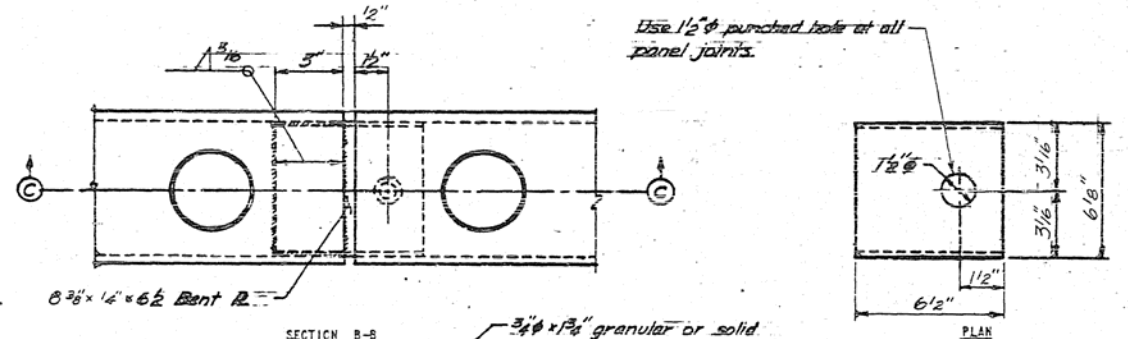


ELEVATION
NORTH HANDRAIL AS SHOWN
SOUTH HANDRAIL SIMILAR BUT OPPOSITE
ALL DIMENSIONS ARE ALONG & HANDRAIL

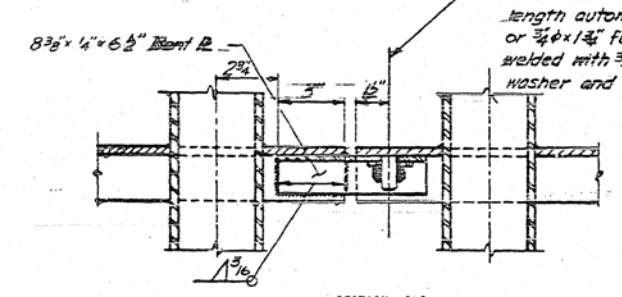


ELEVATION - TYPICAL PANEL

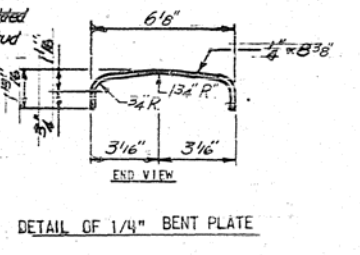
SECTION A-A



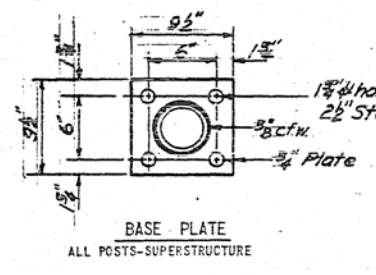
3/4" x 1/2" granular or solid flux filled stud. Threaded full length automatically end welded or 3/4" x 1/2" fully threaded stud welded with 3/16" c.f.w. Provide washer and locknut.



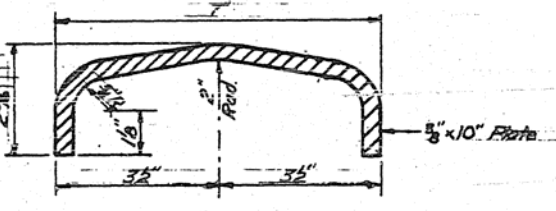
CONNECTION DETAIL AT PANEL JOINTS



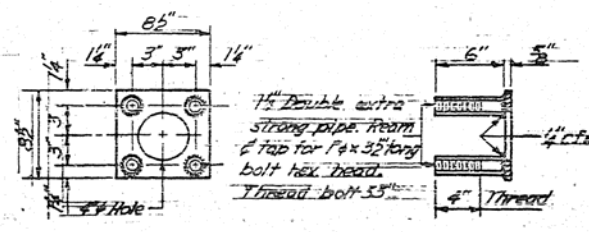
DETAIL OF 1/4" BENT PLATE



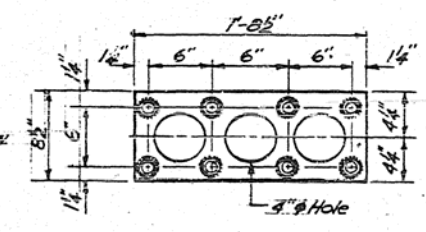
BASE PLATE
ALL POSTS - SUPERSTRUCTURE



DETAIL OF RAIL



ANCHOR DEVICE
FOR SINGLE POST & EACH END OF PANEL



ANCHOR DEVICE
FOR DOUBLE POSTS WITHIN EACH PANEL

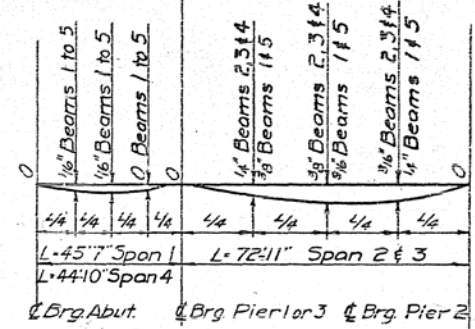
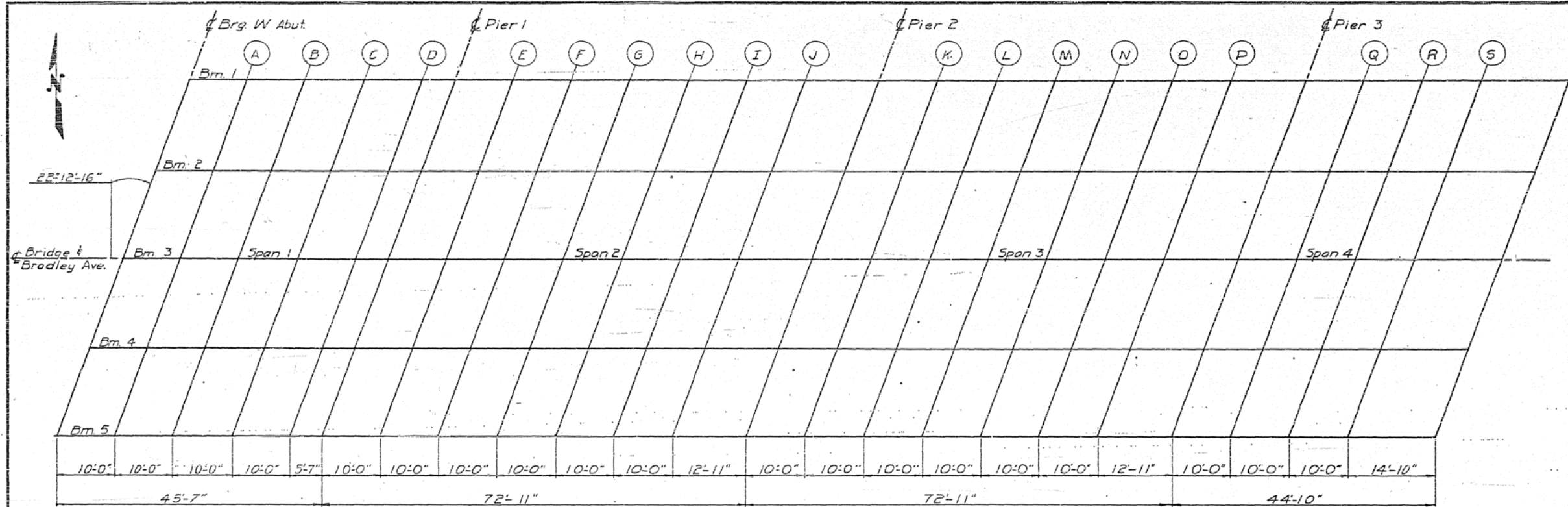
BILL OF MATERIAL (2 BRIDGES)

ITEM	UNIT	QUANTITY
METAL HANDRAIL	LIN. FT.	476

HANDRAIL DETAILS
FAI RTE 57 SEC 10-33HS-1
CHAMPAIGN COUNTY
STA. 509+81.62

DESIGNED BY DATE CHECKED BY DATE IN CHARGE
E.L.M. F.J.A. 3-7-62 E.L.M. 3-9-62 M.F.T.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAL 57 10-33HB-4		CHAMPAIGN	34	15
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			



DEAD LOAD DEFLECTION DIAGRAM
INCLUDES WEIGHT OF CONCRETE ONLY

NOTE: THE ABOVE DEFLECTIONS ARE NOT FOR USE IN THE FIELD. IF THE ENGINEER IS USING THE "THEORETICAL GRADE ELEVATIONS" ADJUSTED FOR DEAD LOAD DEFLECTION.

PLAN
ALL DIMENSIONS ARE ALONG & BEAM

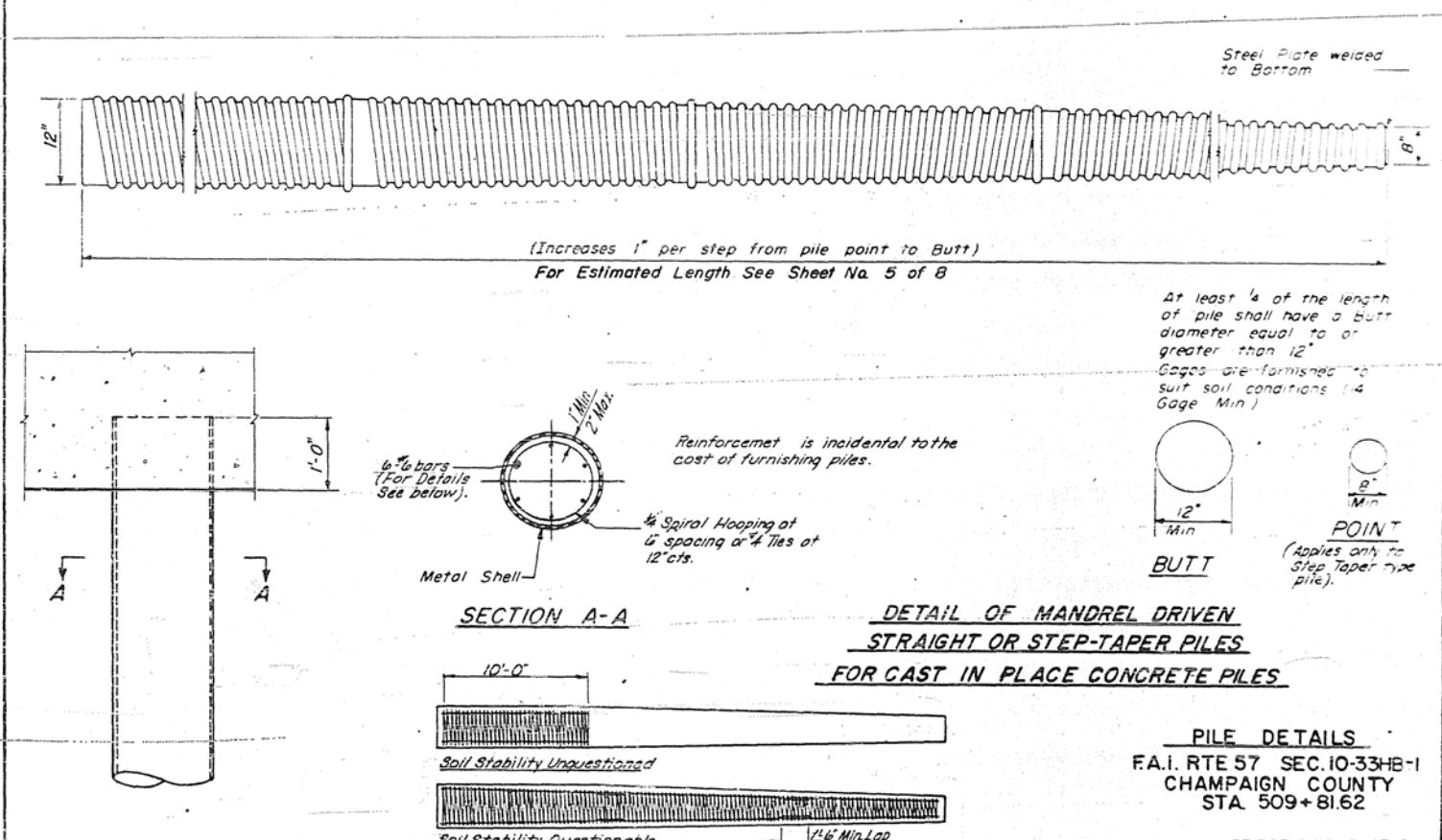
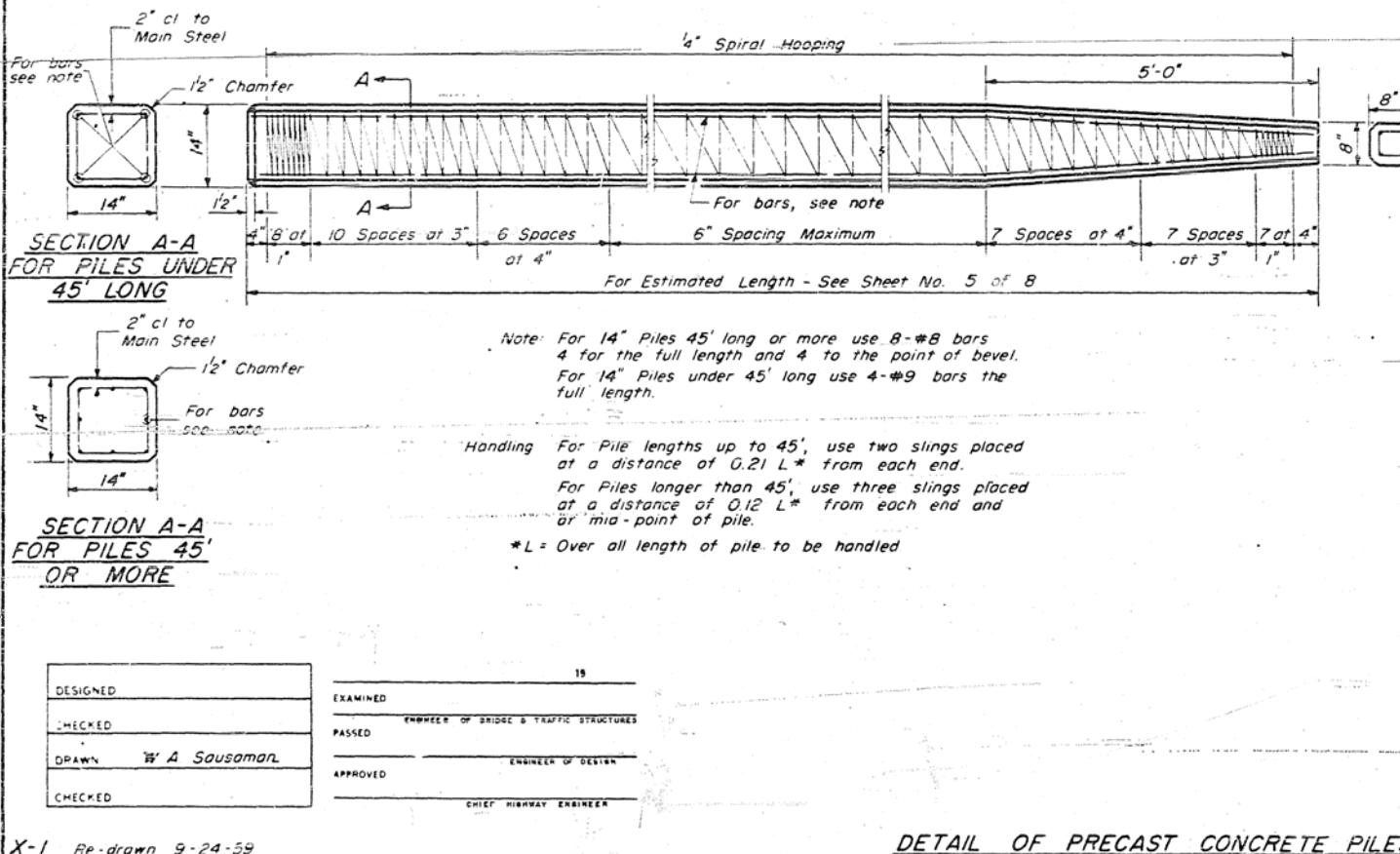
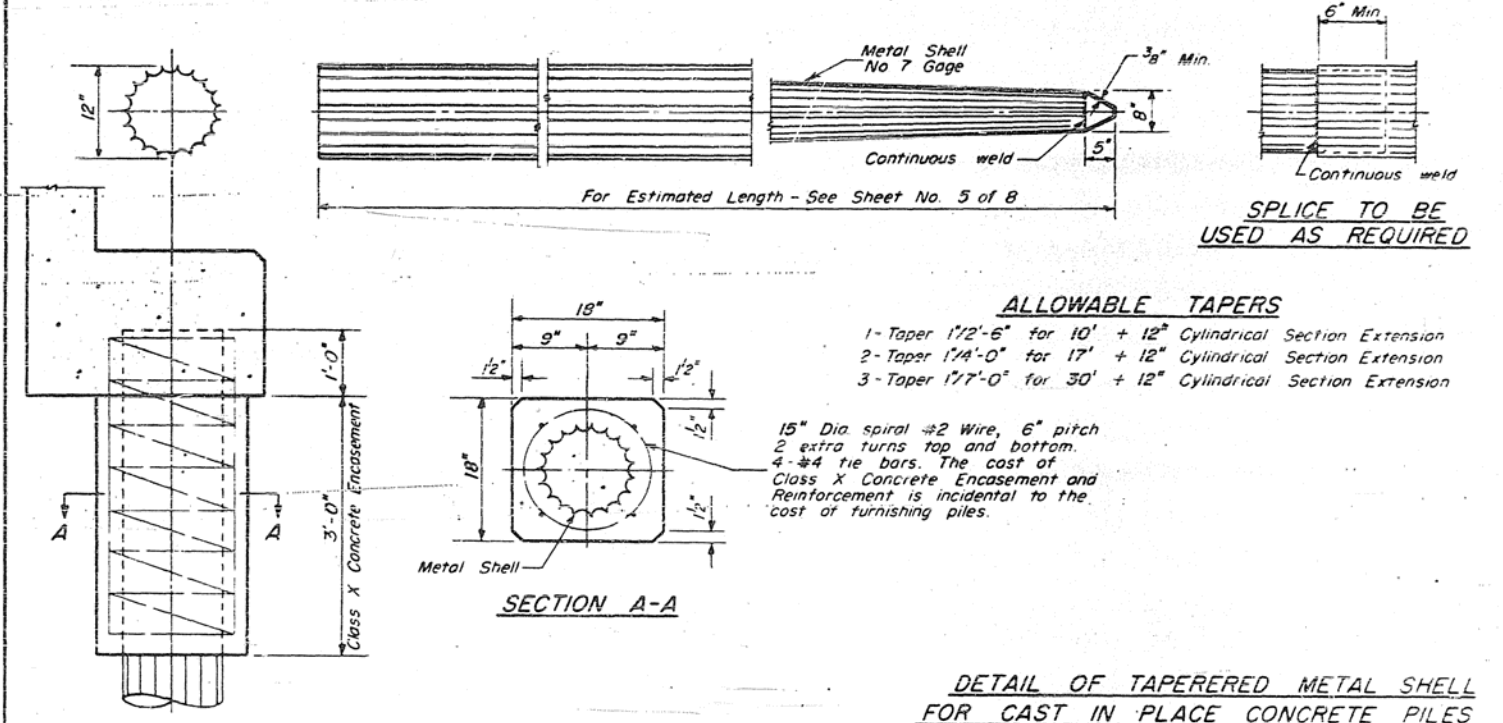
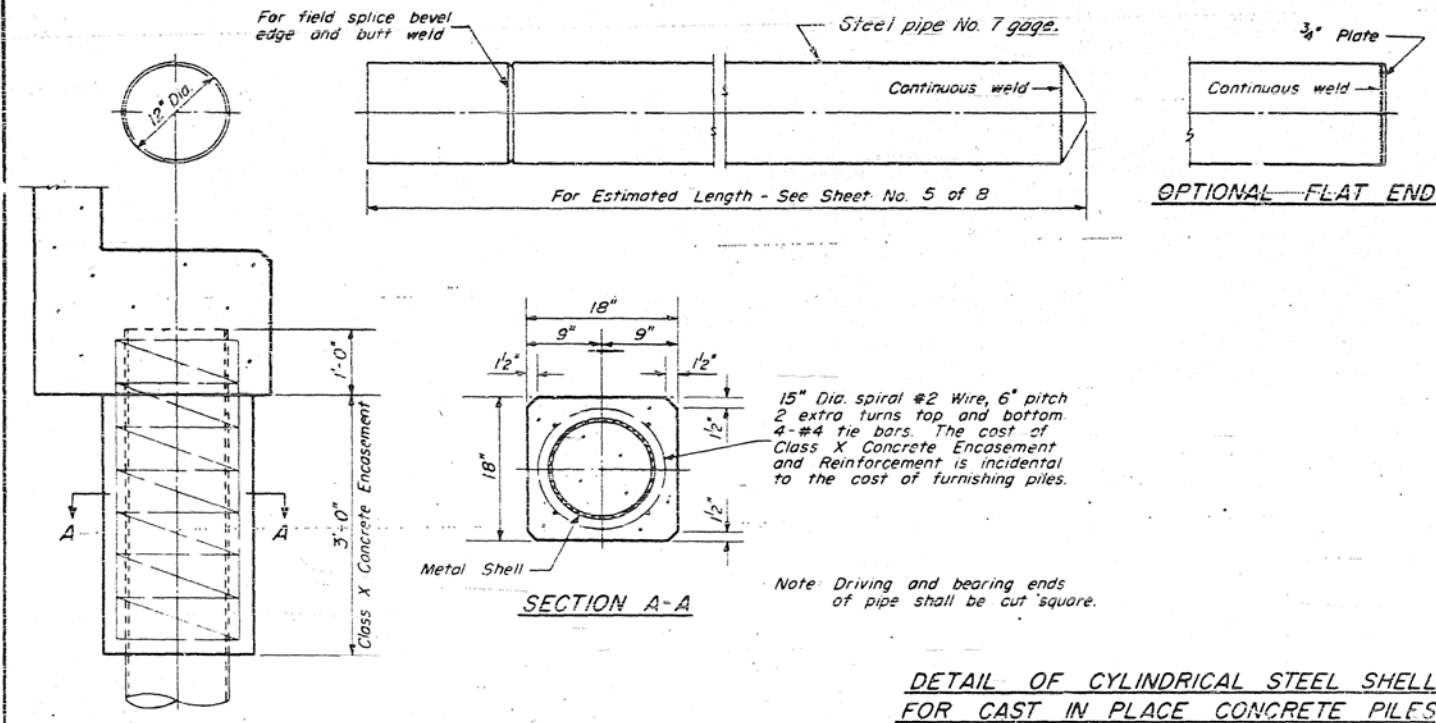
Beams	Stations	Offset from & (feet)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
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Brig. W. Abut.	Bm 5	2491.452	12.833	762.001	762.001	E	2507.035	12.833	762.506	762.523	K	2619.952	12.833	762.644	762.650	Q	2692.868	12.833	762.180	762.176
	Bm 4	2464.071	6.416	762.122	762.122		2507.035	6.416	762.612	762.621		2619.952	6.416	762.727	762.731		2692.868	6.416	762.241	762.240
	Bm 3	2496.600	.000	762.190	762.190		2509.654	.000	762.684	762.679		2625.571	.000	762.787	762.761		2695.438	.000	762.259	762.258
	Bm 2	2498.309	6.416	762.183	762.183		2522.273	.000	762.712	762.733		2635.190	.000	762.725	762.738		2700.726	6.416	762.183	762.182
	Bm 1	2501.928	12.833	762.124	762.124		2524.393	6.416	762.696	762.707		2637.809	6.416	762.673	762.690		2702.726	6.416	762.064	762.067
A	2501.452	12.833	762.118	762.125	G	2567.035	12.833	762.605	762.652	M	2639.952	12.833	762.576	762.618	S	2712.868	12.833	761.947	761.955	
	2504.071	6.416	762.236	762.240		2569.654	6.416	762.703	762.732		2642.571	6.416	762.653	762.679		2715.488	6.416	762.003	762.008	
	2506.690	.000	762.261	762.265		2572.273	.000	762.728	762.775		2645.190	.000	762.677	762.703		2718.107	.000	762.005	762.010	
	2509.309	6.416	762.224	762.229		2574.893	6.416	762.720	762.746		2647.809	6.416	762.620	762.652		2720.726	6.416	761.933	761.938	
	2511.928	12.833	762.228	762.236		2577.512	12.833	762.658	762.695		2650.428	12.833	762.523	762.565		2723.345	12.833	761.908	761.916	
B	2511.452	12.833	762.224	762.231	H	2577.035	12.833	762.636	762.680	N	2649.952	12.833	762.525	762.572	Brig. E. Abut.	2727.702	12.833	761.746	761.746	
	2514.071	6.416	762.339	762.344		2579.654	6.416	762.732	762.759		2652.571	6.416	762.599	762.628		2730.321	6.416	761.797	761.797	
	2516.690	.000	762.401	762.406		2582.273	.000	762.775	762.802		2655.190	.000	762.621	762.650		2732.940	.000	761.795	761.795	
	2519.309	6.416	762.358	762.369		2584.893	6.416	762.743	762.770		2657.809	6.416	762.567	762.596		2735.559	6.416	761.718	761.718	
	2521.928	12.833	762.322	762.329		2587.512	12.833	762.657	762.701		2660.428	12.833	762.460	762.507		2738.178	12.833	761.589	761.589	
C	2521.452	12.833	762.316	762.320	I	2587.035	12.833	762.657	762.687	O	2659.952	12.833	762.463	762.502	Pier 1	2537.035	12.833	762.443	762.443	
	2524.071	6.416	762.430	762.431		2589.654	6.416	762.749	762.768		2662.571	6.416	762.535	762.559		2539.654	6.416	762.550	762.550	
	2526.690	.000	762.489	762.490		2592.273	.000	762.789	762.808		2665.190	.000	762.553	762.577		2542.273	.000	762.604	762.604	
	2529.309	6.416	762.473	762.474		2594.893	6.416	762.754	762.773		2667.809	6.416	762.496	762.520		2544.893	6.416	762.584	762.584	
	2531.928	12.833	762.405	762.407		2597.512	12.833	762.666	762.696		2670.428	12.833	762.386	762.425		2547.512	12.833	762.547	762.547	
D	2531.452	12.833	762.401	762.399	J	2597.035	12.833	762.666	762.677	Pier 2	2669.952	12.833	762.390	762.411	Pier 3	2682.868	12.833	762.279	762.279	
	2534.071	6.416	762.510	762.509		2599.654	6.416	762.755	762.762		2672.571	6.416	762.458	762.471		2685.488	6.416	762.343	762.343	
	2536.690	.000	762.566	762.565		2602.273	.000	762.792	762.799		2675.190	.000	762.473	762.486		2688.107	.000	762.354	762.354	
	2539.309	6.416	762.548	762.547		2604.893	6.416	762.754	762.761		2677.809	6.416	762.414	762.437		2690.726	6.416	762.291	762.291	
	2541.928	12.833	762.476	762.474		2607.512	12.833	762.663	762.674		2680.428	12.833	762.301	762.322		2693.345	12.833	762.175	762.175	

TOP OF SLAB ELEVATIONS
F.A.I. RTE. 57 SEC. 10-33HB-1
CHAMPAIGN COUNTY
STA 509+81.62

DESIGNED BY DATE CHECKED BY DATE IN CHARGE
E.L.M. E.J.A. 3/16/52 C.B.P. 3/5/52 M.F.T.
E.L.M.

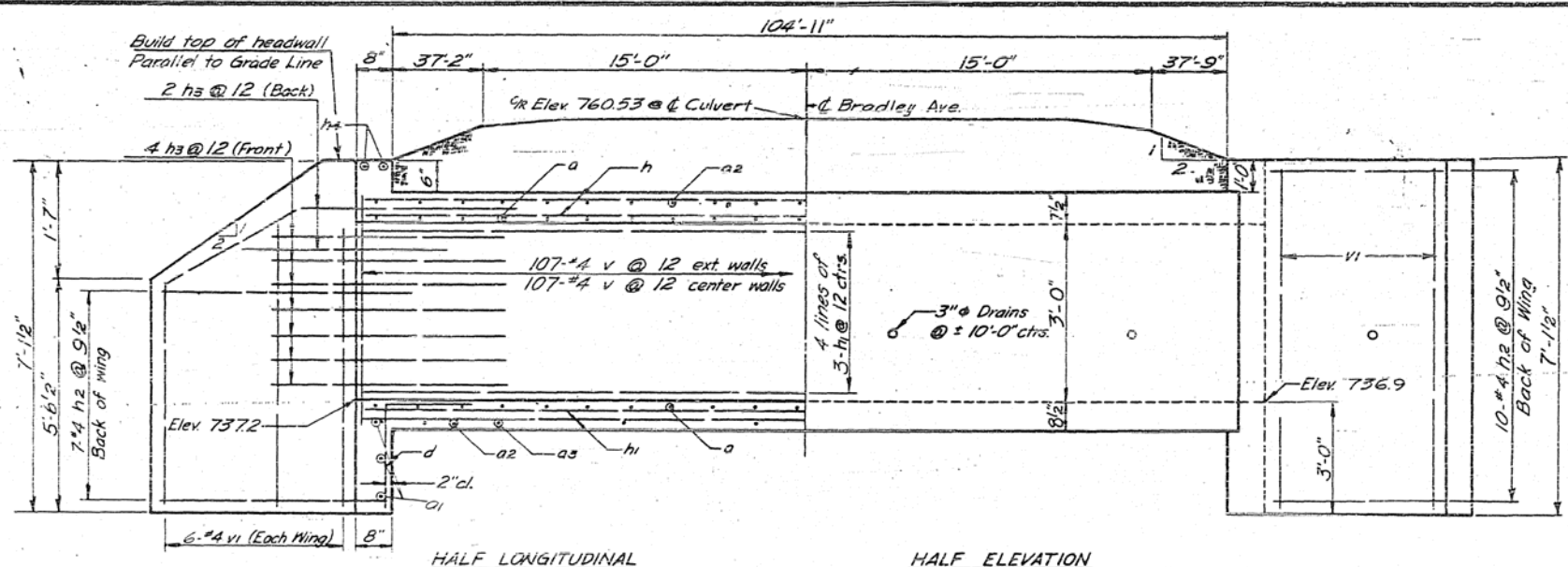
ROUTE NO.	SECTION	PROJECT	TOTAL SHEETS	SHEET NO.
F.A.157	1053B-1	CHAMPAIGN	34	16
FED. ROAD DIST. NO. 7 ILLINOIS PER. AID PROJECT				



DESIGNED	EXAMINED	19
CHECKED	PASSED	ENGINEER OF BRIDGE & TRAFFIC STRUCTURES
DRAWN W. A. Sausman	APPROVED	ENGINEER OF DESIGN
CHECKED		CHIEF HIGHWAY ENGINEER

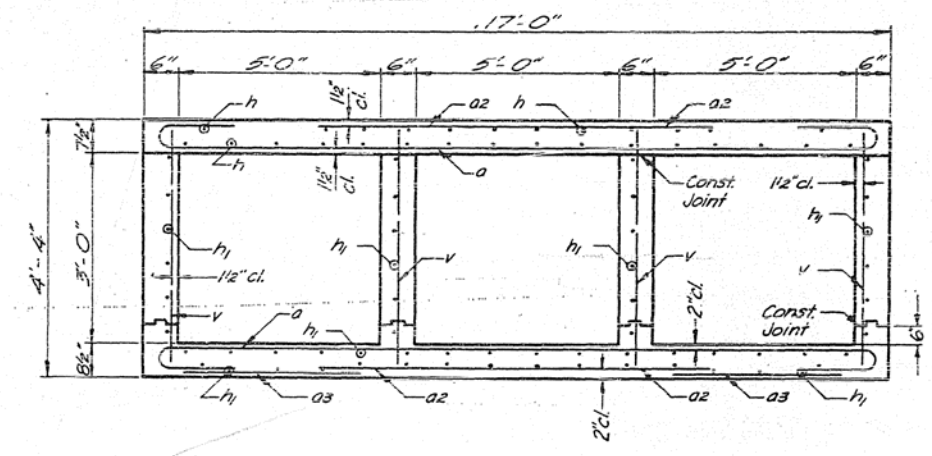
X-1 Re-drawn 9-24-59

PILE DETAILS
F.A.I. RTE 57 SEC. 10-33B-1
CHAMPAIGN COUNTY
STA. 509+81.62



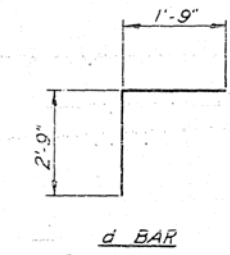
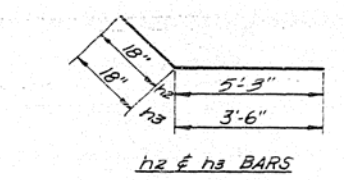
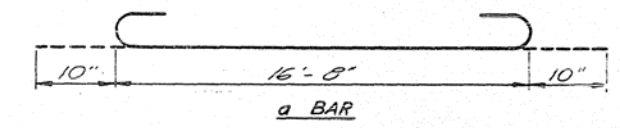
HALF LONGITUDINAL

HALF ELEVATION



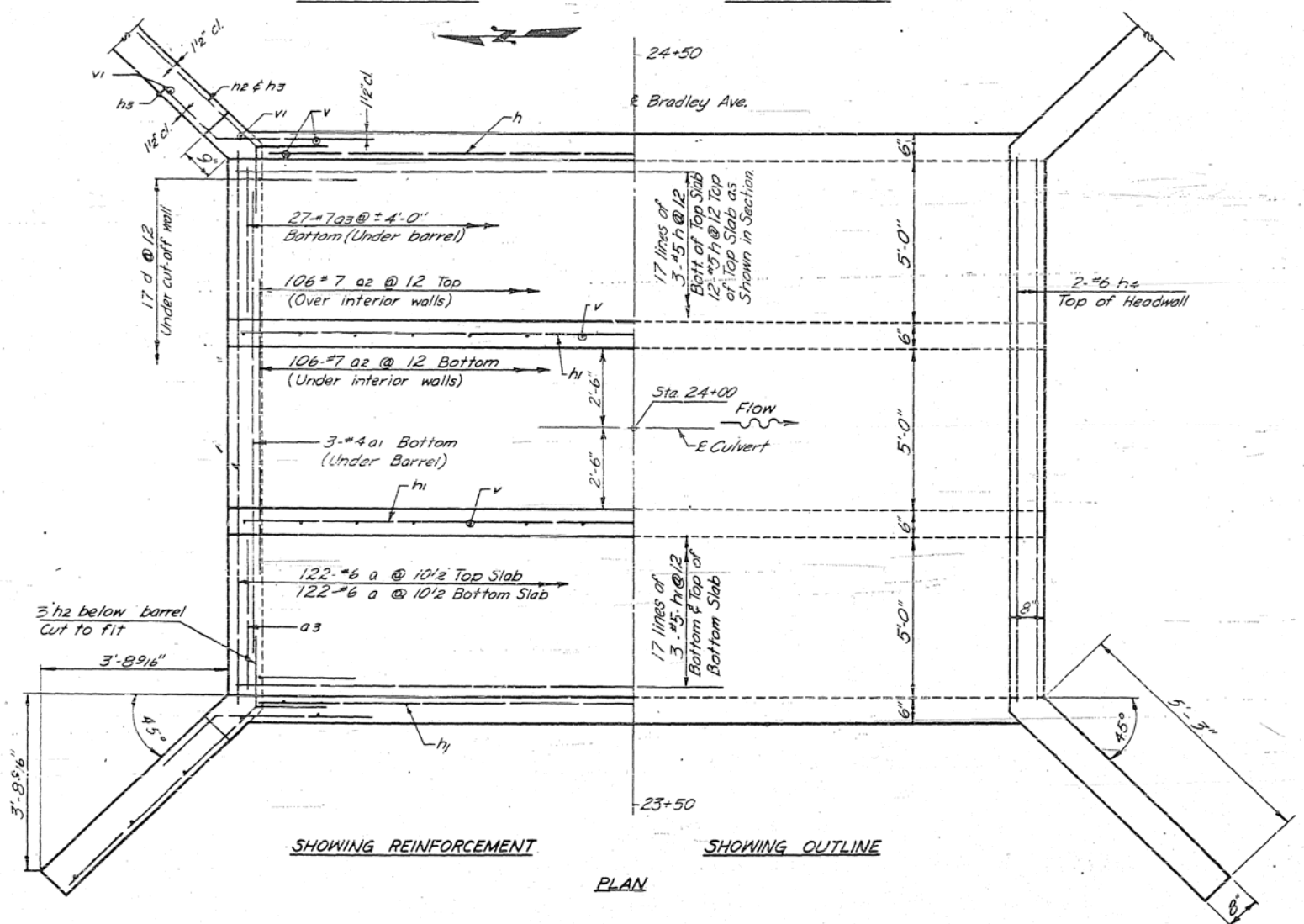
SECTION THRU BARRELS

Location of h bars	No.
Top of top slab	36
Bottom of top slab	51



BILL OF MATERIAL

Bar No.	Size	Length	Bar No.	Size	Length
a	244 #6	18'-4"			
a	6 #4	16'-8"			
a2	212 #7	9'-6"			
a3	54 #4	5'-0"			
			v	428 #4	4'-0"
			vi	24 #4	5'-6"
d	34 #4	4'-6"			
h	87 #6	36'-0"			
h1	150 #5	36'-0"			
h2	34 #4	6'-9"			
h3	24 #4	5'-0"			
h4	4 #6	16'-6"			
Class "X" Concrete			Cu. Yds		118.7
Reinforcement Bars			Lbs.		23,225



SHOWING REINFORCEMENT

SHOWING OUTLINE

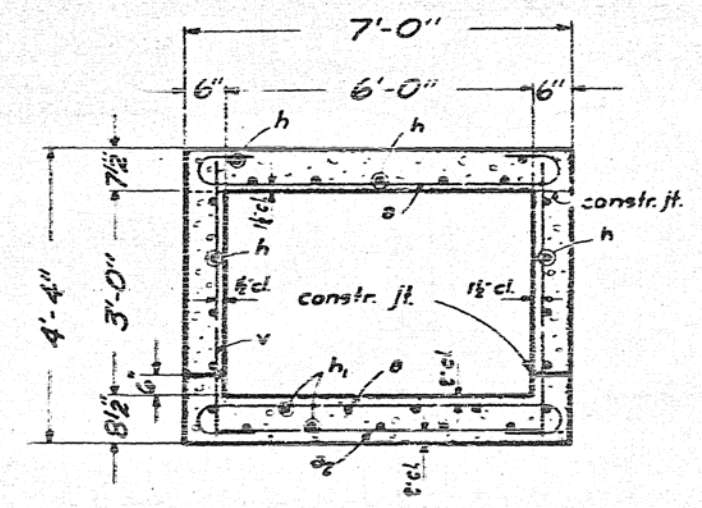
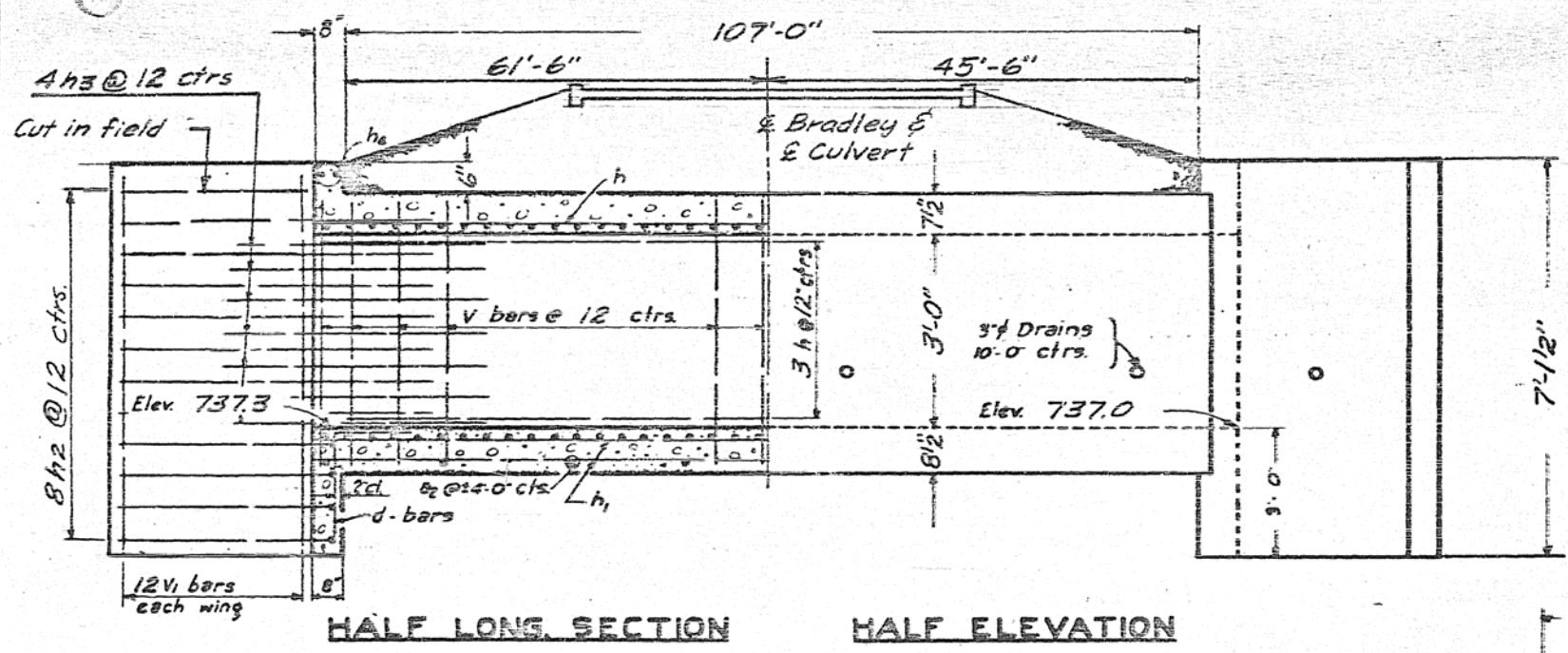
PLAN

GENERAL NOTES:
 All bars to be lapped 20 diameters unless otherwise shown.
 Class "X" concrete to be used throughout.
 At least six feet of barrel to be poured monolithically with wingwalls.
 Exposed edges to be beveled 3/4" except as shown.
 For backfilling and embankments see standard specifications.
 Tilt hook of 'a' bars if necessary to obtain 1/2" min. clearance at top of hook.

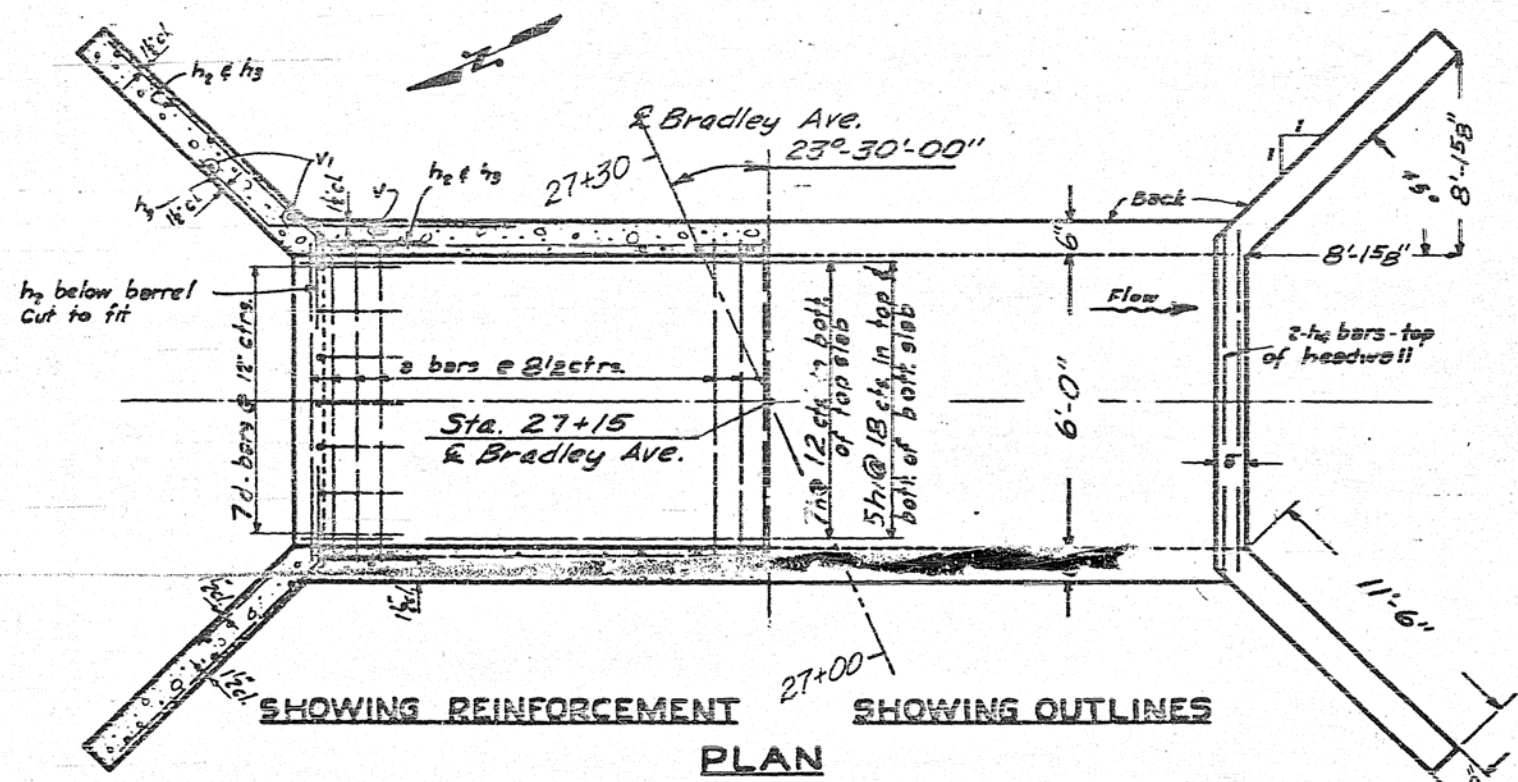
DESIGN STRESSES
 $f_s = 20,000 \text{ #/in}^2$
 $f_c = 1400 \text{ #/in}^2$ (Barrel)
 $f_c = 1200 \text{ #/in}^2$ (Wingwall)
 $n = 10$

CULVERT AT STA. 24+00
 F.A.I. 57 SEC. 10-33HB-1
 CHAMPAIGN COUNTY
 STA. 509+81.62

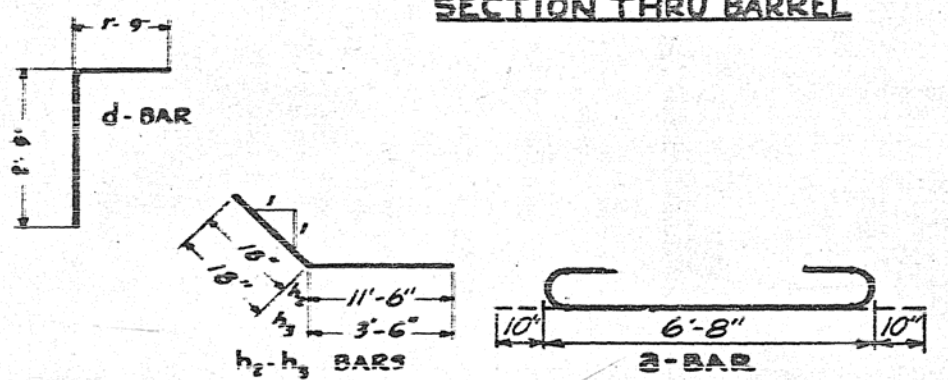
DESIGNED BY DATE CHECKED BY DATE IN CHARGE
 FIG. B E. J. A. 6-21-64 M.F.T.



SECTION THRU BARREL



SHOWING REINFORCEMENT PLAN SHOWING OUTLINES



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
a	310	#7	8'-4"
a2	28	#4	6'-3"
h	60	#5	27'-7"
h1	40	#5	27'-7"
h2	32	#7	13'-0"
h3	16	#5	5'-0"
h4	4	#6	6'-6"
v	222	#4	4'-0"
v1	48	#6	6'-9"
d	14	#8	8'-6"

Class X Concrete curbs 60.4
Reinforcement bars Lbs. 10,096

STANDARD	COMPUTED	
	CHECKED	
	DRAWN	-C.L. HAZLETT-
	CHECKED	
SPECIAL	ASSEMBLED	BDS RGB
	CHECKED	ELM

DESIGNED April 17-64
W.B. [Signature]
DRAWN [Signature]
CHECKED [Signature]
APPROVED [Signature]

GENERAL NOTES
Class X concrete shall be used throughout.
At least six feet of Barrel shall be poured monolithically with wing walls.
Exposed edges shall be beveled 3/4".
For backfilling & embankments see std. Spec's.
Tilt hook of #5 bars, if necessary, to obtain 1" minimum clearance at top of hook.

fs = 29,000 psi
fc = 1200 psi (Wingwall)
n = 10
fc = 1400 psi (Barrel)

CULVERT AT STA. 27+15
F.A.I. RTE. 57 SEC. 10-33HB-1
CHAMPAIGN COUNTY
STA. 509+81.62

Reinf. Revised - 11-50 - J.S.M.

EMBANKMENT BY CONTRACTOR
FOR SEC. 10-33 SB (TTTTTTT)

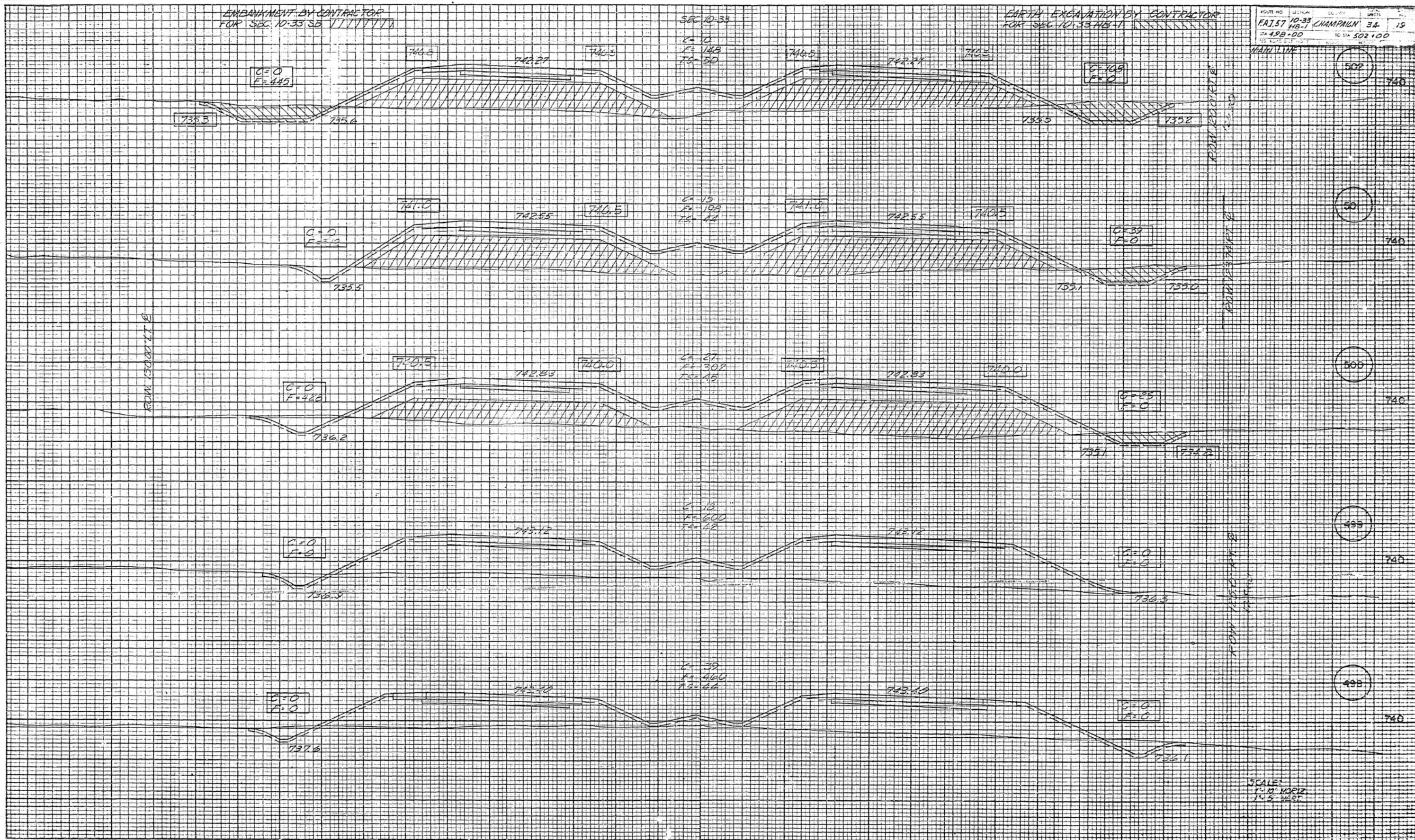
SEC. 10-33

EARTH EXCAVATION BY CONTRACTOR
FOR SEC. 10-33 HB-T

ROUTE NO. SECTION
FAJ. 57 10-33 CHAMPAIGN 34 19
STA. 498+00 TO STA. 502+00

DATE
BY
FINAL SURVEY
SHOULDER
FLATTED
NOTE BOOK
AREAS CHECKED

DATE
BY
ORIGINAL SURVEY
SHOULDER
FLATTED
NOTE BOOK
AREAS CHECKED



SCALE:
1" = 10' HORIZ
1" = 5' VERT

EMBANKMENT BY CONTRACTOR
FOR SEC 10-33 SB

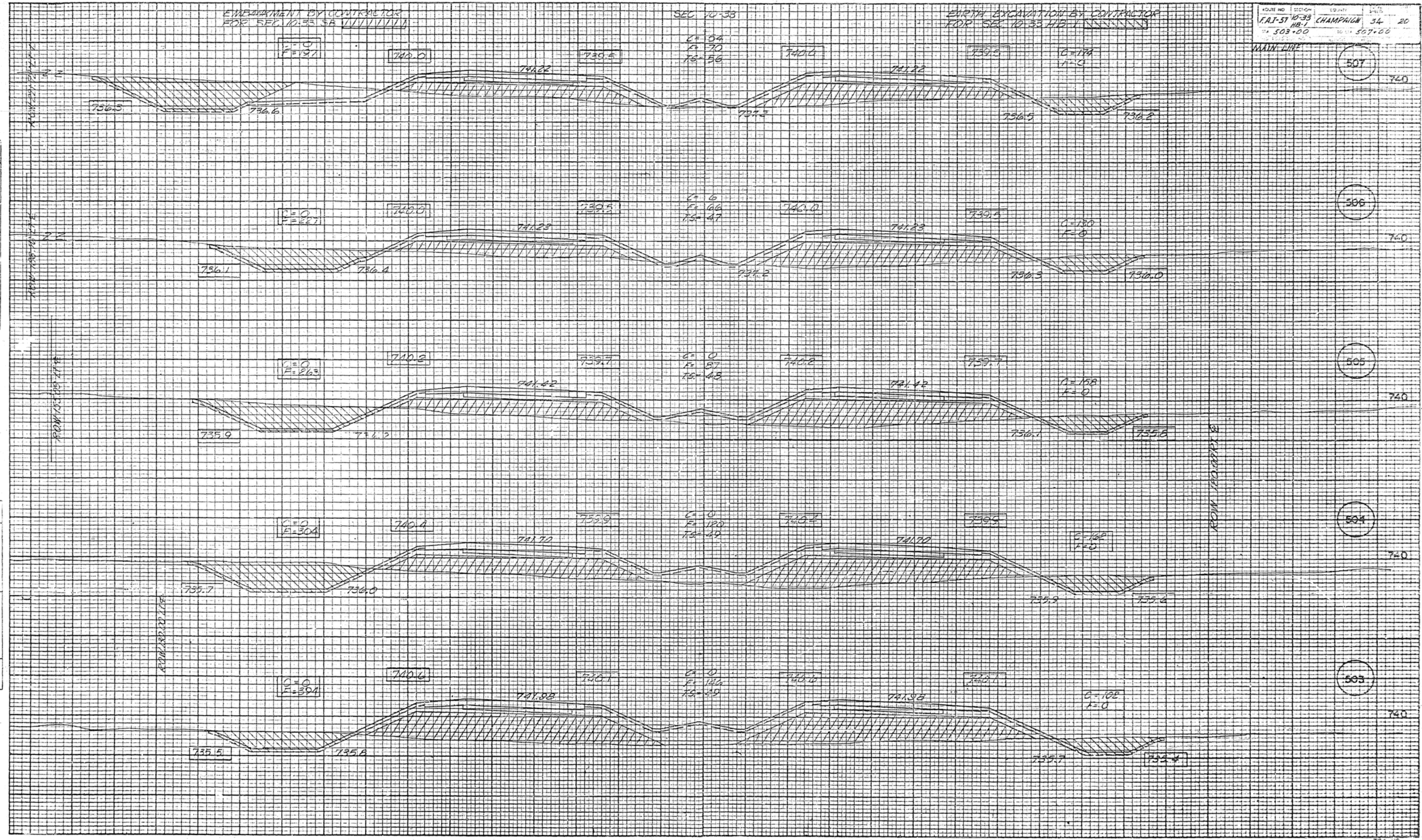
SEC 10-33

EARTH EXCAVATION BY CONTRACTOR
FOR SEC 10-33 HB-1

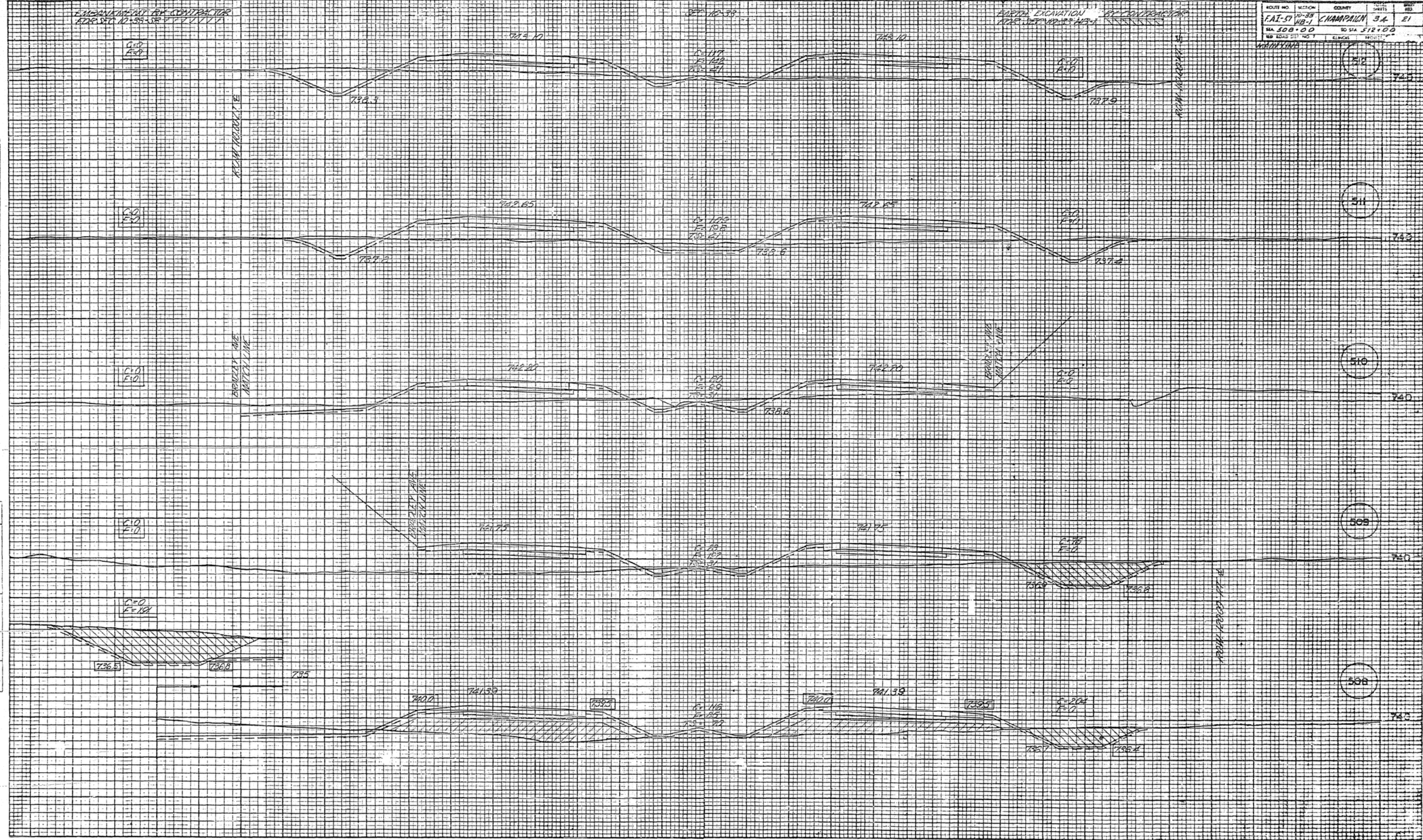
ROUTE NO. SECTION COUNTY
F.A.T-57 10-33 CHAMPAIGN 34 20
503+00 TO STA 507+00

DATE
BY
FINAL SURVEY
CORRECTED
WHITE BOOK
AREAS CHECKED

DATE
BY
ORIGINAL SURVEY
CORRECTED
WHITE BOOK
AREAS CHECKED



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-51	10-35	CHAMPAIGN	34	21
MA 508-00		90 STA 512+00		
WB 508-01		ELONG		



EMPAVIMENT BY CONTRACTOR
 F-109
 F-108
 F-107
 F-106
 F-105
 F-104
 F-103
 F-102
 F-101
 F-100
 F-99
 F-98
 F-97
 F-96
 F-95
 F-94
 F-93
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 F-11
 F-10
 F-9
 F-8
 F-7
 F-6
 F-5
 F-4
 F-3
 F-2
 F-1

ORIGINAL SURVEY
 SURVEYED
 BY
 DATE

CONTRACTOR FOR SEC
 10-33 TO REMOVE
 DETOUR ROAD

CONTRACTOR FOR SEC
 10-33HB-1 TO CONSTRUCT
 DETOUR ROAD

CONTRACTOR FOR SEC 10-33HB-1
 TO CONSTRUCT T.R # 175
 (BRADLEY AVE)

C=14
 F=13
 TS=0

C=13
 F=14
 TS=0

C=0
 F=0
 TS=0

C=7
 F=0
 TS=0

C=0
 F=7
 TS=0

C=0
 F=0
 TS=0

C=0
 F=0

C=0
 F=0

C=0
 F=0

ROAD SIDEWALK

ROAD SIDEWALK

744.0

745.76

746.20

14
+
00

745

13
+
00

745

12
+
54

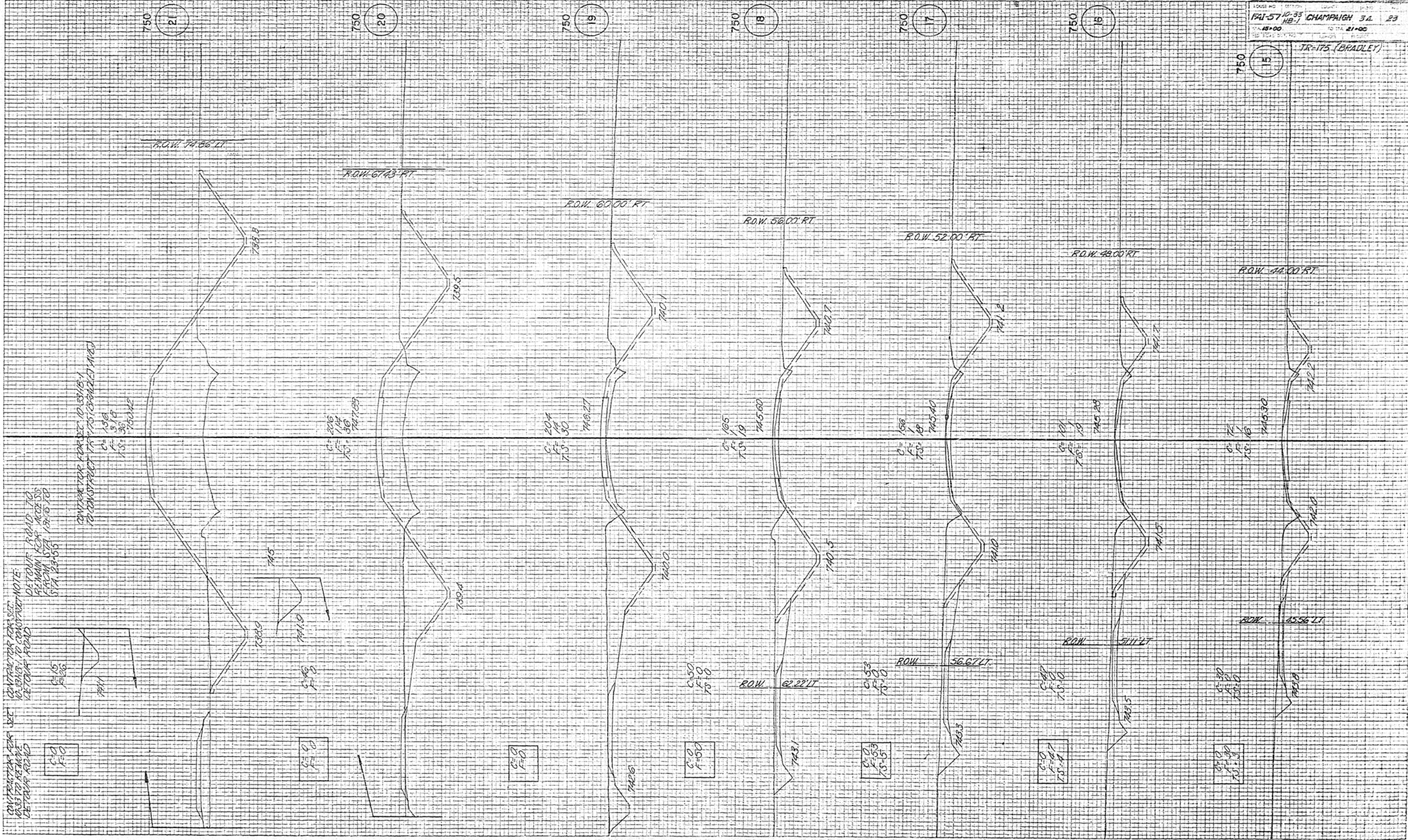
745

SURVEY
 CHAMPAIGN COUNTY
 ILLINOIS
 1912

SURVEY
 CHAMPAIGN COUNTY
 ILLINOIS
 1912

DATE	
BY	
NO.	
PROJECT	
CONTRACT	
STATE	
COUNTY	
TOWNSHIP	
SECTION	
PLAT	

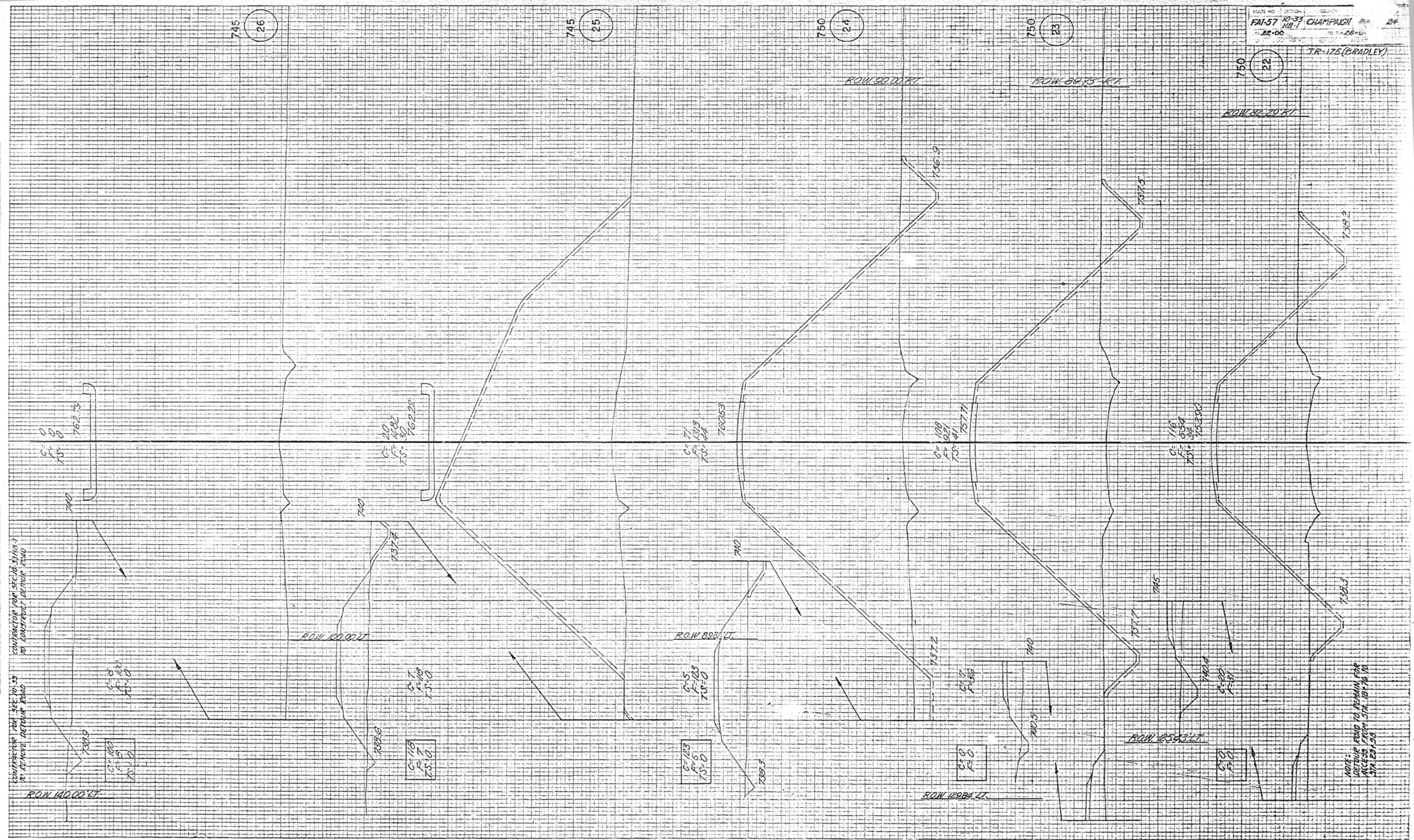
DATE	
BY	
NO.	
PROJECT	
CONTRACT	
STATE	
COUNTY	
TOWNSHIP	
SECTION	
PLAT	



ROAD NO. 10-33
 FAI-57 10-33
 15-00
 CHAMPAIGN 3d 23
 21-00
 TR-175 (BRADLEY)

DATE	
BY	
FINAL SURVEY	
DATE MADE	
BY WHOM MADE	
HOW CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
DATE MADE	
BY WHOM MADE	
HOW CHECKED	

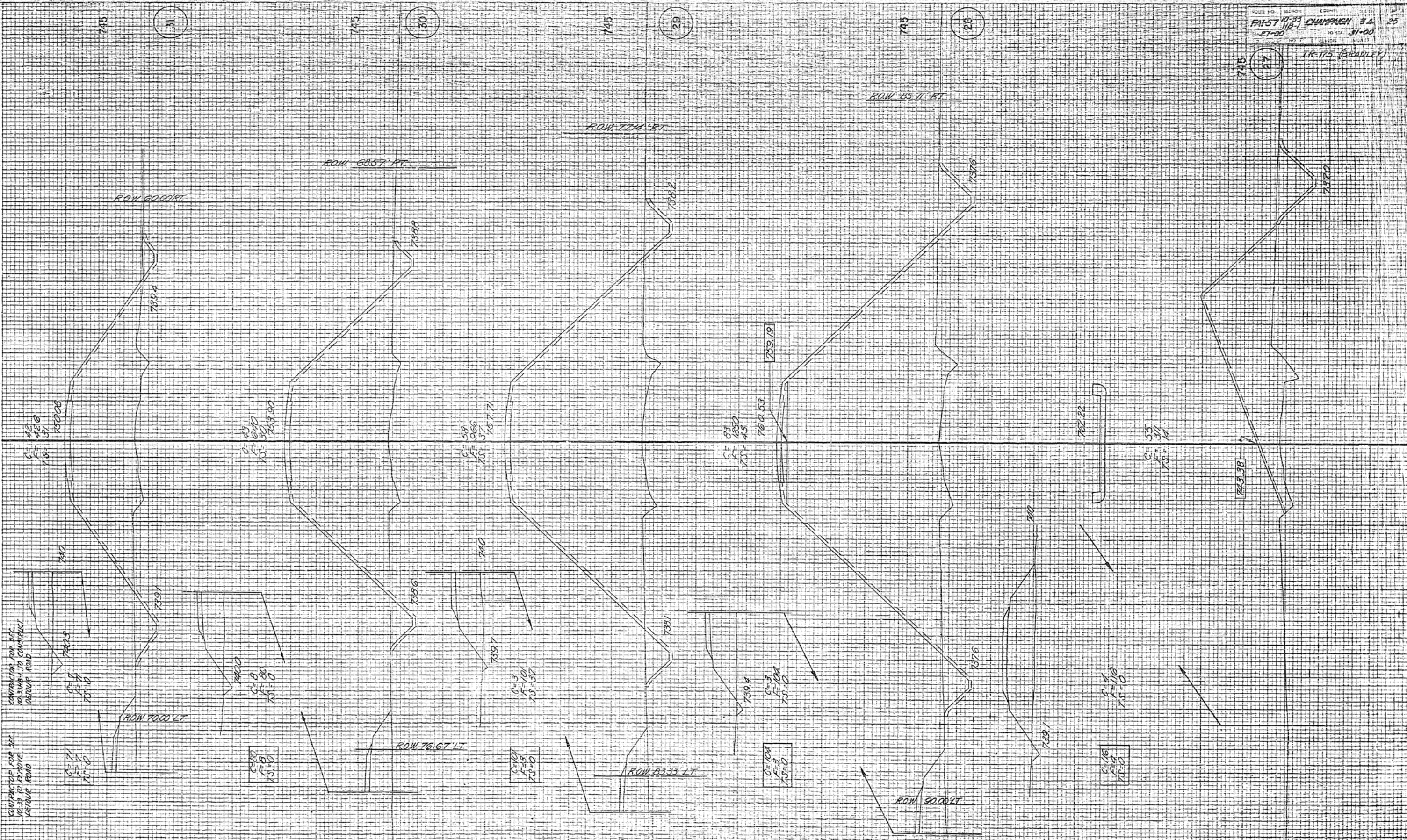


CONTRACTOR FOR SEC 10-33
TO REMOVE DETOUR ROAD
TO CONSTRUCT DETOUR ROAD

NOTE:
DETOUR ROAD TO REMAIN FOR
ACCESS FROM STA 10+74 TO
STA 10+53

FINAL SURVEY	DATE
STARTED	BY
FINISHED	
NOTE BOOK	
NO.	

ORIGINAL SURVEY	DATE
STARTED	BY
FINISHED	
NOTE BOOK	
NO.	



PLAN NO. 10-33
 57-00
 CHAMPAIGN 34
 10-33 31-00
 TR-175 (BRADLEY)
 28
 25

CONTRACTOR FOR DEC.
 NO. 30 TO CHAMPAIGN
 DETOUR ROAD
 C=12
 F=18
 752.00

ROW 70.00 LT

C=10
 F=15
 751.0

ROW 76.67 LT

C=10
 F=15
 751.0

ROW 83.33 LT

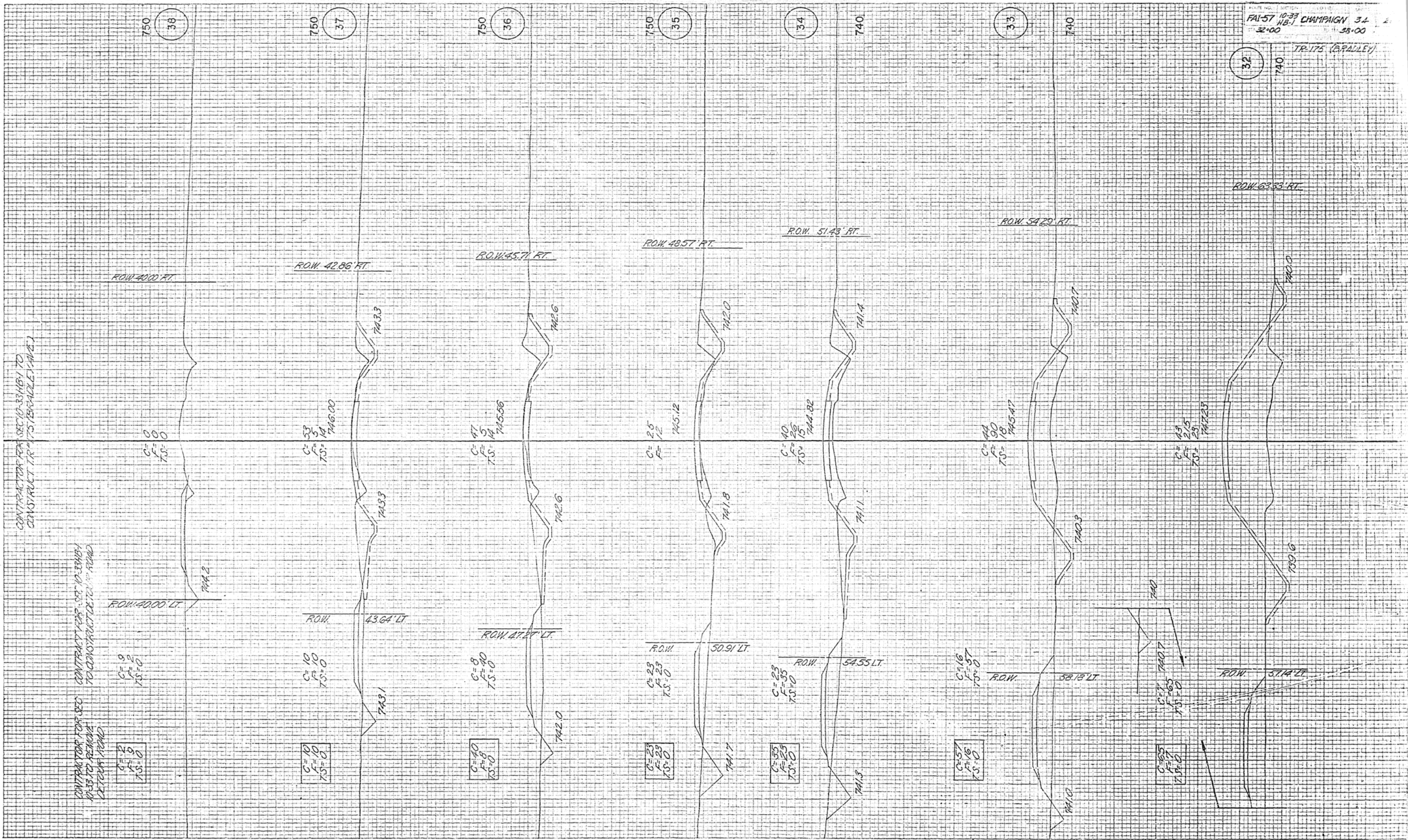
C=10
 F=15
 751.0

ROW 90.00 LT

C=10
 F=15
 751.0

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	
DATE	
BY	
REVISION	
NO.	
DESCRIPTION	



FAI-57 10-33 CHAMPAGN 34
 32-00 HB-1 38-00
 TR-175 (SPADLEY)

CONTRACTOR FOR SEC 10-30H&I TO
 CONSTRUCT TR # 175 (BRADLEY AVE)

CONTRACTOR FOR SEC 10-33
 TO REMOVE DETOUR ROAD

CONTRACTOR FOR SEC 10-33H&I TO
 CONSTRUCT DETOUR ROAD

C=0
 F=0
 TS=0

C=0
 F=0
 TS=0

C=0
 F=10
 TS=0

39
 17

745

C=0
 F=0
 TS=0

C=12
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C=0
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 TS=0

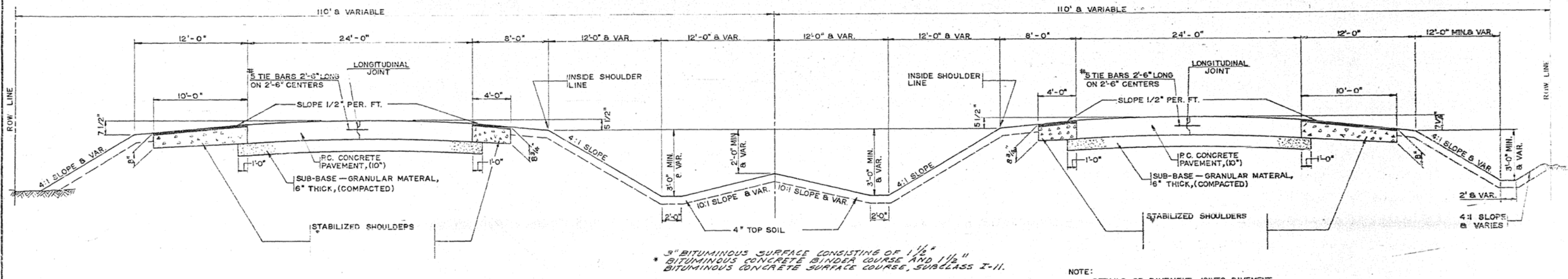
746.80

745.3

39
 00

745

TYPICAL CROSS SECTION FAI-57
FAI-57 STA. 405+00.00 TO STA. 454+22.06
FAI-57 STA. 457+25.22 TO STA. 575 +00.00



3" BITUMINOUS SURFACE CONSISTING OF 1 1/2" BITUMINOUS CONCRETE BINDER COURSE AND 1 1/2" BITUMINOUS CONCRETE SURFACE COURSE, SURCLASS I-II.

NOTE:
DETAILS OF PAVEMENT, JOINTS, PAVEMENT FABRIC, ETC. FOR FAI-57 & FA-II SHALL CONFORM TO STANDARD 2179 EXCEPT AS SHOWN ABOVE. TOP SOIL SHALL BE PLACED AS SHOWN ON STATION CROSS SECTIONS.

NOTE:
SHOULDERS AND SIDESLOPES SHALL BE ROUNDED 12" IN EACH DIRECTION FROM THE TANGENT INTERSECTION OF THESE SURFACES. SHOULDER ROUNDED ON SURERELEVATED SECTIONS SHALL CONFORM TO THE APPLICABLE PORTIONS OF STD. 2178

THE NOMINAL THICKNESSES FOR SUB-BASE GRANULAR MATERIAL AND BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

LOCATION OF WORK F.A.I. 57 STA. 500+50
CONSTRUCTION CODE X028

SCHEDULE OF QUANTITIES

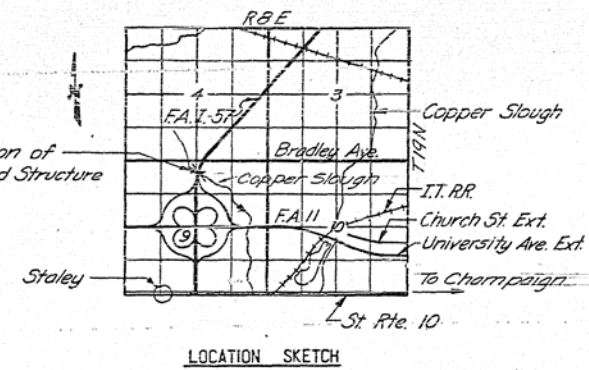
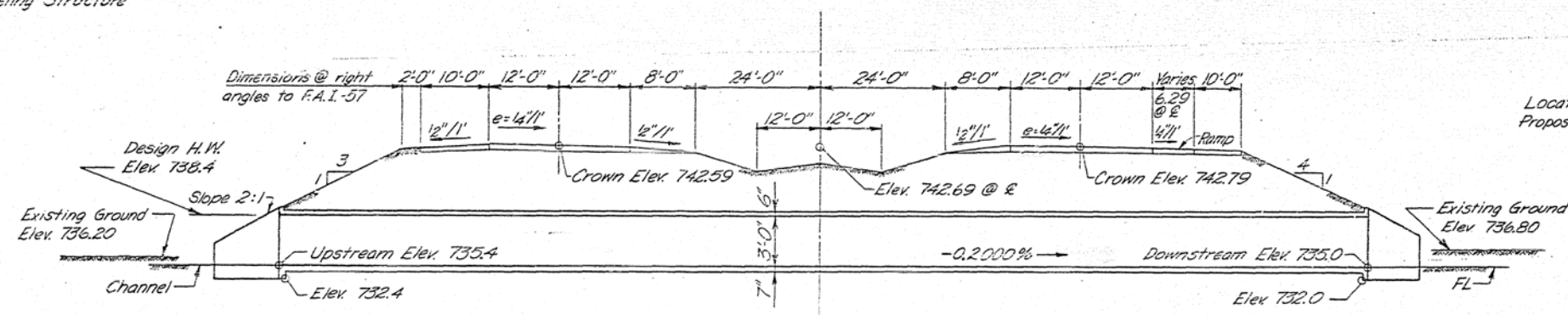
QUANTITY	UNIT	ITEM	CODE NUMBER
200.9	CU. YDS.	CLASS X CONCRETE	052003
29,947	LBS.	REINFORCEMENT BARS	059001
1	EACH	NAME PLATES	061001
272	LIN. FT.	STORM SEWERS TYPE I, 8"	066001
50	CU. YD	TRENCH BACKFILL	020001

NOTE: SEE SHEET 4A SECTION 10-534B FOR TOTAL SUMMARY OF QUANTITY SHEET

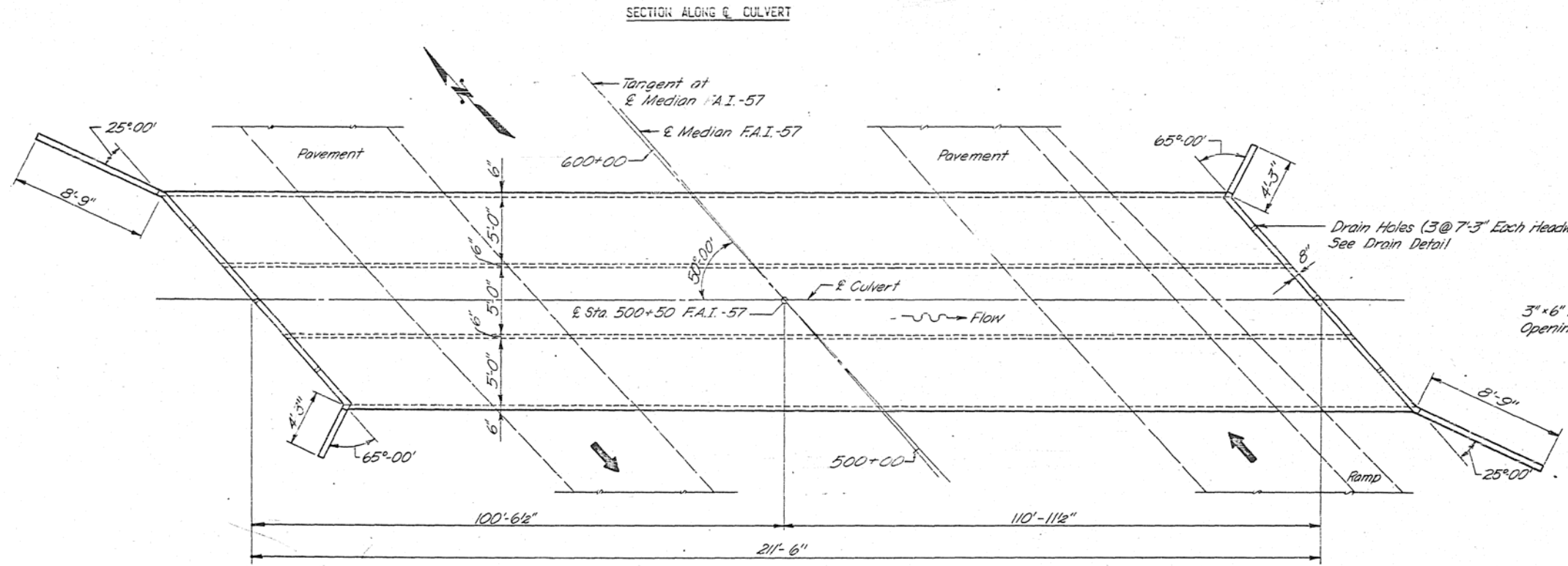
PROJECT: CHAMPAIGN RIVER BRIDGE IMPROVEMENT PROJECT

Bench Mark: *152, Nail and bottle cap in tree 82.26 ft. left of Sta. 502+14.33, Elev. 738.99
No Existing Structure

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	10-33B-1	CHAMPAIGN	34	29
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT:	



- GENERAL NOTES:**
- SPECIFICATIONS: THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 2, 1958 AND THE REVISIONS THERETO SHALL APPLY.
 - CONCRETE: CLASS X CONCRETE SHALL BE USED THROUGHOUT. BEVEL ALL EXPOSED EDGES OF BARREL AND WINGWALLS 3/4". ALL BARS SHALL BE LAPPED 20 DIAMETERS UNLESS OTHERWISE SHOWN.
 - WATERPROOFING: THE TOP OF THE CULVERT, THE BACKS OF THE EXTERIOR WALLS ABOVE THE LOWER CONSTRUCTION JOINT AND THE BACKS OF THE WINGS ABOVE THE TOPS OF THE FOOTINGS SHALL BE WATERPROOFED IN ACCORDANCE WITH ARTICLE 51.21 OF THE STANDARD SPECIFICATIONS.



STATION 500+50.00
BUILT 196 BY
STATE OF ILLINOIS
FAI RTE. 57 SEC. 10-33B-1
FA PROJ. 1-57-5 (21)
LOADING: H20-S16 & ALT.

SEE STANDARD 2113-1 LOCATE AS SHOWN ON BRIDGE DWG. 2.

NAME PLATE DATA

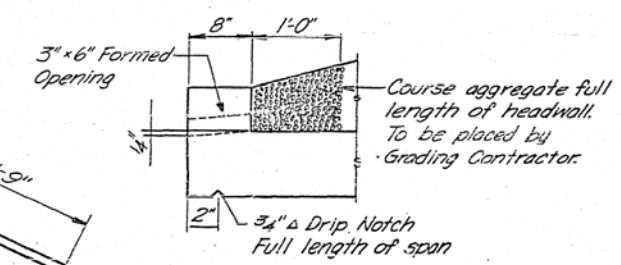
WATERWAY DATA

DRAINAGE AREA	= 475 ACRES
CHARACTER	= ROLLING, CULTIVATED
OPENING REQUIRED	= 45 SQ. FT.
OPENING PROPOSED	= 45 SQ. FT.

DESIGN DATA

fc	= 1,400 psi BARREL
fc	= 1,200 psi WINGWALL
fs	= 20,000 psi REINFORCEMENT
n	= 10

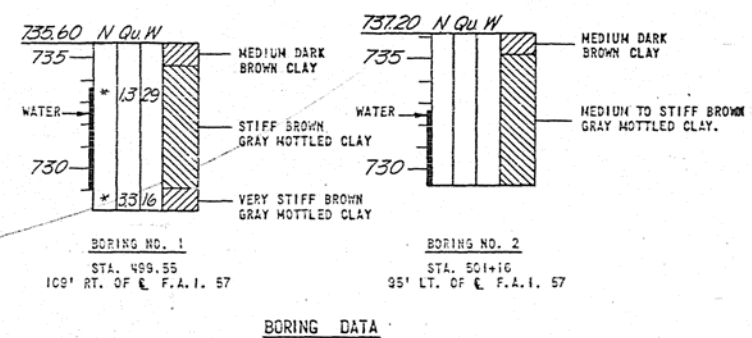
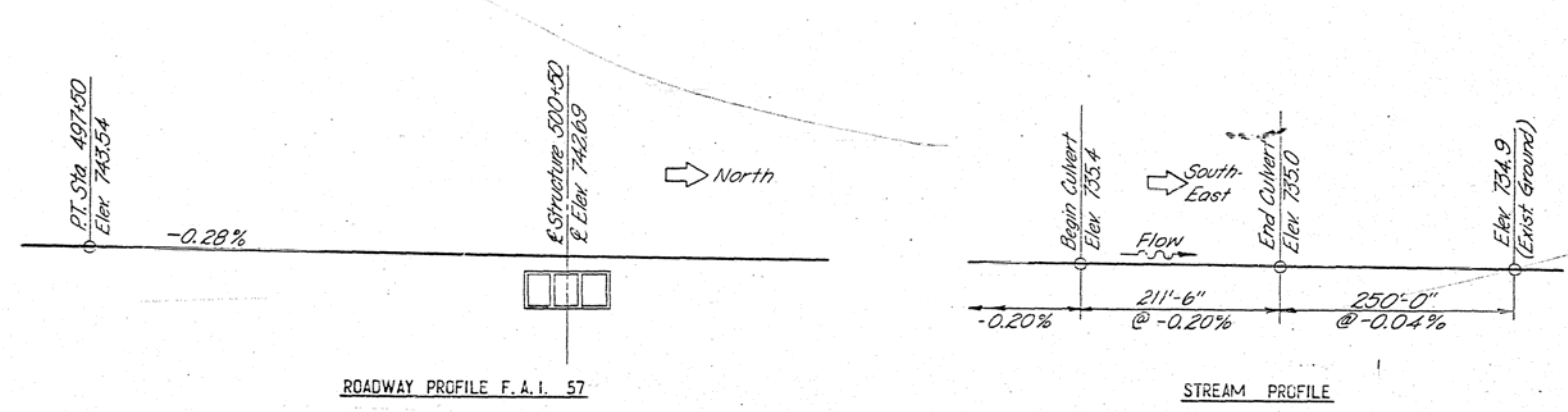
LOADING H20-S16-44 AND ALTERNATE



DRAIN DETAIL

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
CLASS X CONCRETE	CU. YDS.	200.9
REINFORCEMENT BARS	LBS.	29,947
NAME PLATES	EACH	1

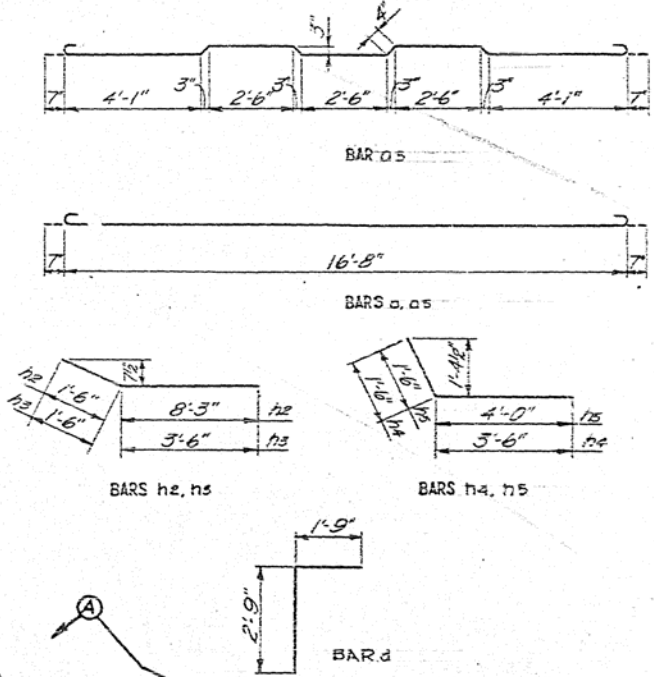
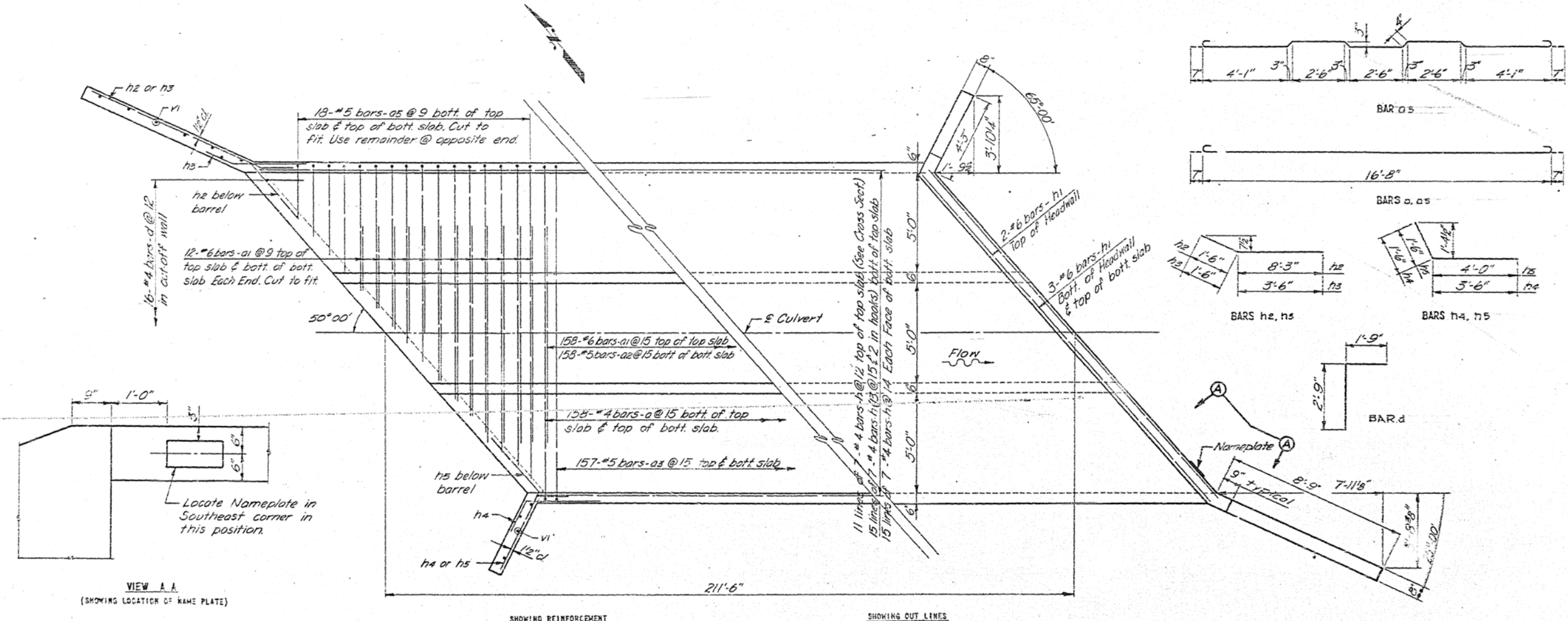
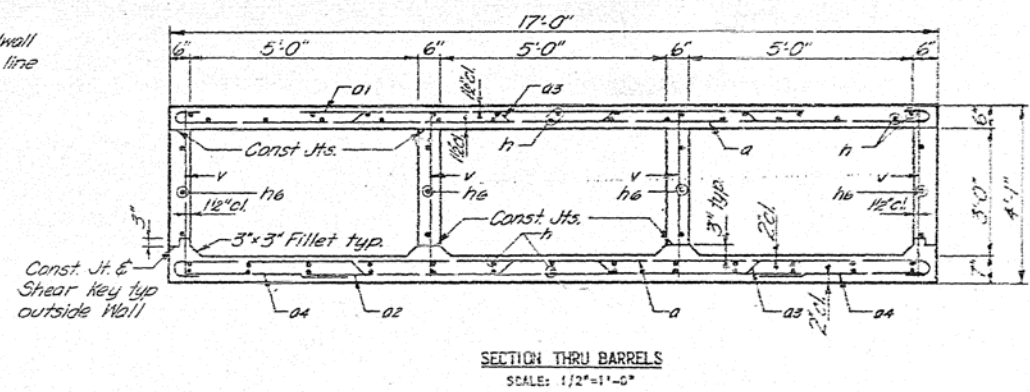
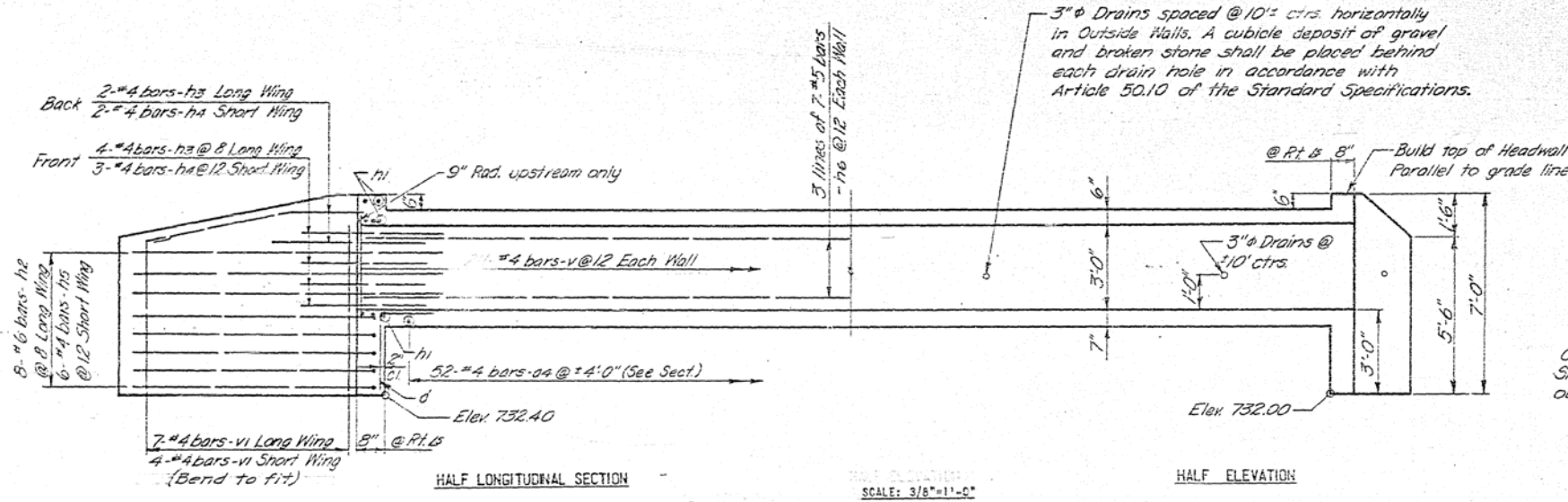


*N = SAMPLES TAKEN BY PUSHING 1 1/2" I.D. ILLINOIS SPLIT TUBE SAMPLER.
Qu = UNCONFINED COMPRESSIVE STRENGTH-T/S.F.
W = WATER CONTENT-PERCENTAGE OF OVEN DRY WEIGHT %

NO.	REVISION	BY	DATE
GENERAL PLAN AND ELEVATION			
SECTION 10-33B-1		STATION 500+50.00	
FAI RTE. 57		PROJECT	
CHAMPAIGN COUNTY			
CLARK, DAILY, DIETZ & ASSOCIATES CONSULTING ENGINEERS URBANA, ILLINOIS			
DESIGNED MKJ	SCALE AS NOTED	SHEET 1	
DRAWN BDS	DATE 11-12-1962	OF 2	
CHECKED CBP		JOB NO. 394-V2E	

DESIGNED BY DATE CHECKED BY DATE IN CHARGE
E.L.M. B.D.S. 10-31-62 K.C.B. 11-28-62 M.F.T.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	10-338-1	CHAMPAIGN	34	30
FED. ROAD DIST. NO. 7	CLASCO	PROJ. DIST.		



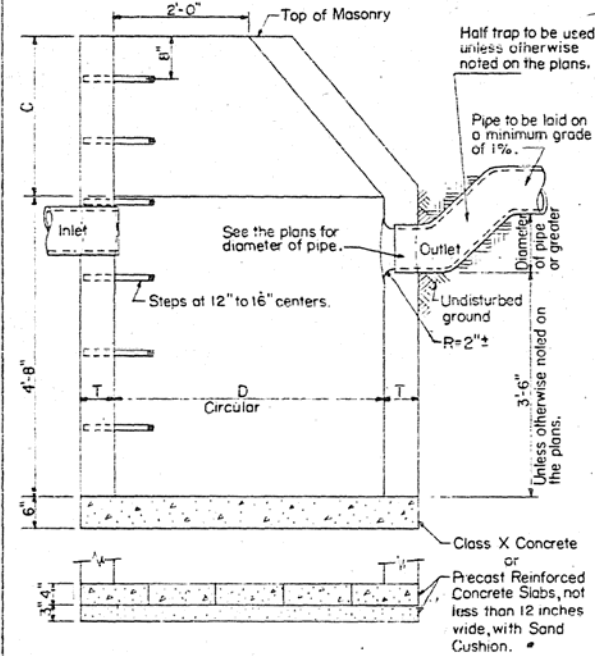
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
01	3/8	17'-10"	U
02	206	11'-0"	U
03	158	11'-0"	U
04	3/4	15'-7"	U
05	104	3'-5"	U
06	36	7'-10"	U
d	32	4'-6"	T
h	392	3'-5"	U
h1	16	21'-2"	U
h2	16	9'-3"	U
h3	12	5'-0"	U
h4	10	5'-0"	U
h5	12	5'-6"	U
h6	84	3'-5"	U
v	844	3'-9"	U
v1	22	6'-0"	U
CLASS I CONCRETE		CU. YDS.	3,329
REINFORCEMENT BARS		LBS.	23,940
NAME PLATES		EACH	1

CULVERT DETAILS
 F.A.I. RTE. 57 SEC. 10-338-1
 CHAMPAIGN COUNTY
 STA. 500+50.00
 BRIDGE DWG 2 OF 2
 JOB NO. 33-4-226

STANDARD DESIGN
CATCH BASINS TYPE A AND TYPE B

CATCH BASIN TYPE A



Notes:
All Catch Basins shall be 4'-0" in diameter unless otherwise noted on plans.

ALTERNATE MATERIALS FOR WALLS	D	C	T
Concrete Masonry Units	4'-0"	2'-6"	5"
Building Brick, Grade SW, from Clay or Shale	4'-0"	2'-6"	8"
Precast Reinforced Concrete Risers	4'-0"	2'-6"	4"
Monolithic Concrete	4'-0"	2'-6"	6"
Concrete Building Brick, Grade A	4'-0"	2'-6"	8"

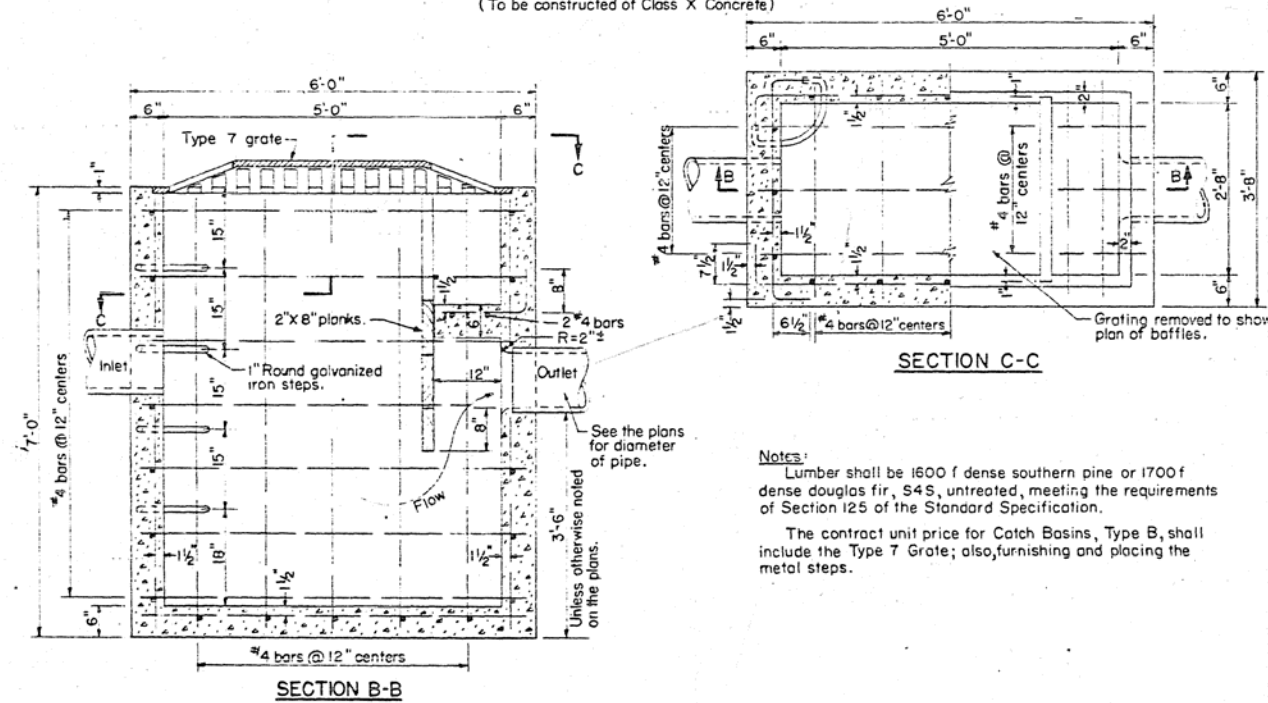
Type A Catch Basin to be provided with:
Type 1 Frame, Open Lid or Type 2 Frame or Type 3 Frame or Type 5 Frame, Open Lid or Type 6 Frame or Type 8 Frame or Type 9 Frame

The metal steps shall be either 1" Galvanized Iron Bars or Cast Iron as shown in the details. The steps shall be omitted for work in Cook County.

The contract unit price for Catch Basins, Type A, shall include the frame and lid or grate specified; also, furnishing and placing the metal steps and sand cushion when required.

Specification Reference: Section 75

CATCH BASIN TYPE B
(To be constructed of Class X Concrete)

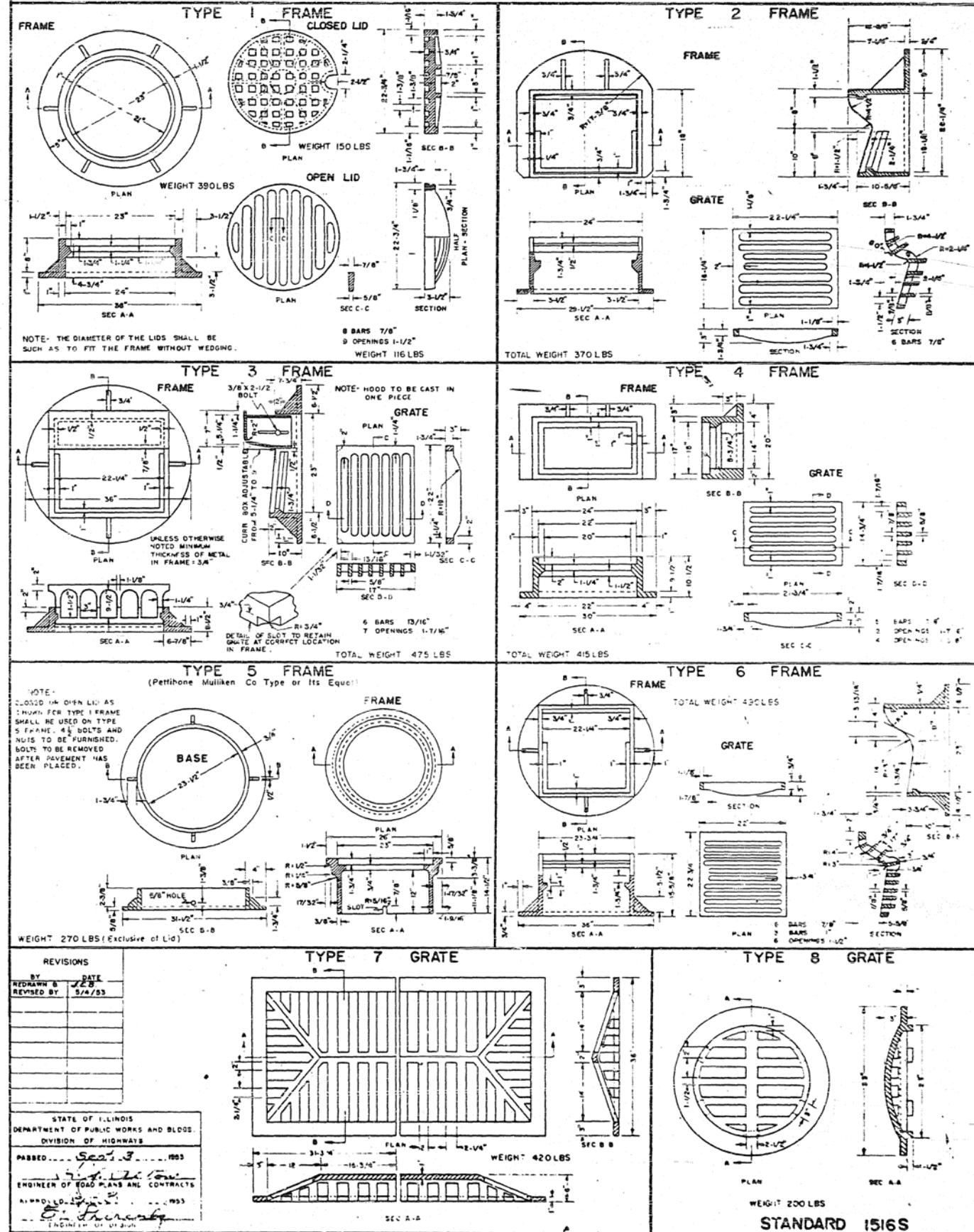


Notes:
Lumber shall be 1600 f dense southern pine or 1700 f dense douglas fir, S4S, untreated, meeting the requirements of Section 125 of the Standard Specification.

The contract unit price for Catch Basins, Type B, shall include the Type 7 Grate; also, furnishing and placing the metal steps.

Specification Reference: Section 75

DETAILS OF STANDARD FRAMES AND GRATES - TYPES 1 TO 8



STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS BY DATE
PASSED	July 7, 1961	WHF 6-30-61
APPROVED	July 7, 1961	

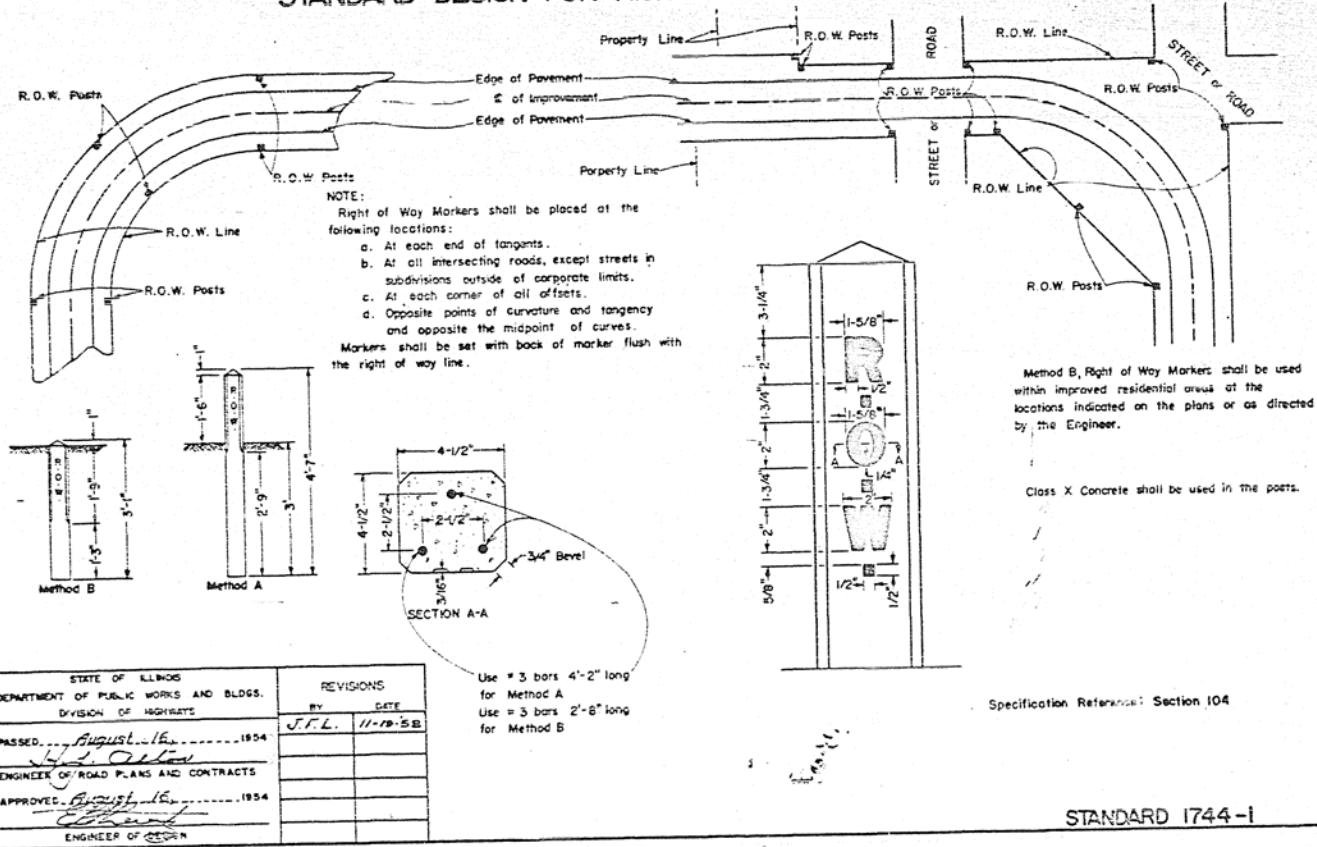
STANDARD 1514-2

Drawn 12-2-52 Redrawn 6-30-61 W.H.F.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BLDG. DIVISION OF HIGHWAYS	
PASSED	Sept 3, 1963
APPROVED	Sept 3, 1963

STANDARD 1516S

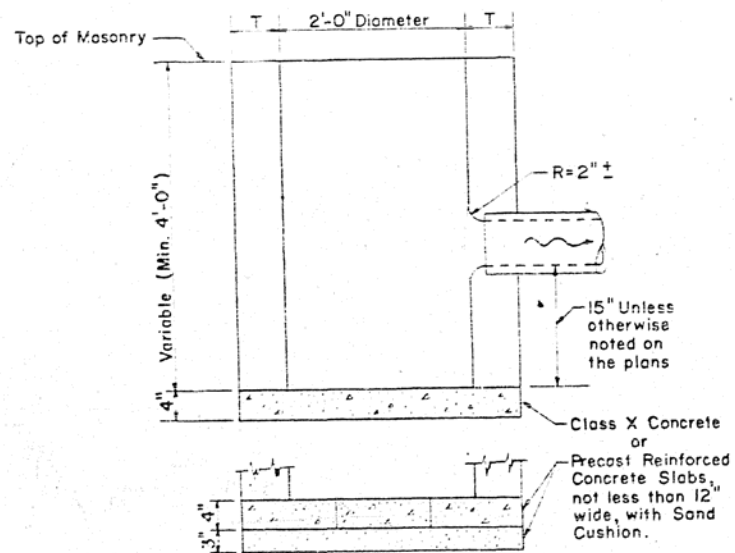
STANDARD DESIGN FOR RIGHT OF WAY MARKERS



STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BLDGS. DIVISION OF HIGHWAYS		REVISIONS	
PASSED	DATE	BY	DATE
August 16, 1954		J.F.L.	11-19-58
Approved			
Approved			

STANDARD 1744-1

STANDARD DESIGN CATCH BASIN TYPE C



ALTERNATE MATERIALS FOR WALLS		T
Precast Reinforced Concrete Risers		3"
Concrete Masonry Units		5"
Monolithic Concrete		6"
Building Brick, Grade SW, from Clay or Shale		8"
Concrete Building Brick, Grade A		8"

Type C Catch Basin to be provided with:
Type 1 Frame, Open Lid or Type 10 Frame
or Type 2 Frame or Type 11 Frame
or Type 3 Frame or Type 12 Frame
or Type 5 Frame, Open Lid or Type 13 Frame
or Type 6 Frame or Type 14 Frame
or Type 8 Grate or Type 15 Frame
or Type 9 Frame

The contract unit price for Catch Basin, Type C shall include the frame and lid or grate specified; also, furnishing and placing sand cushion when required.

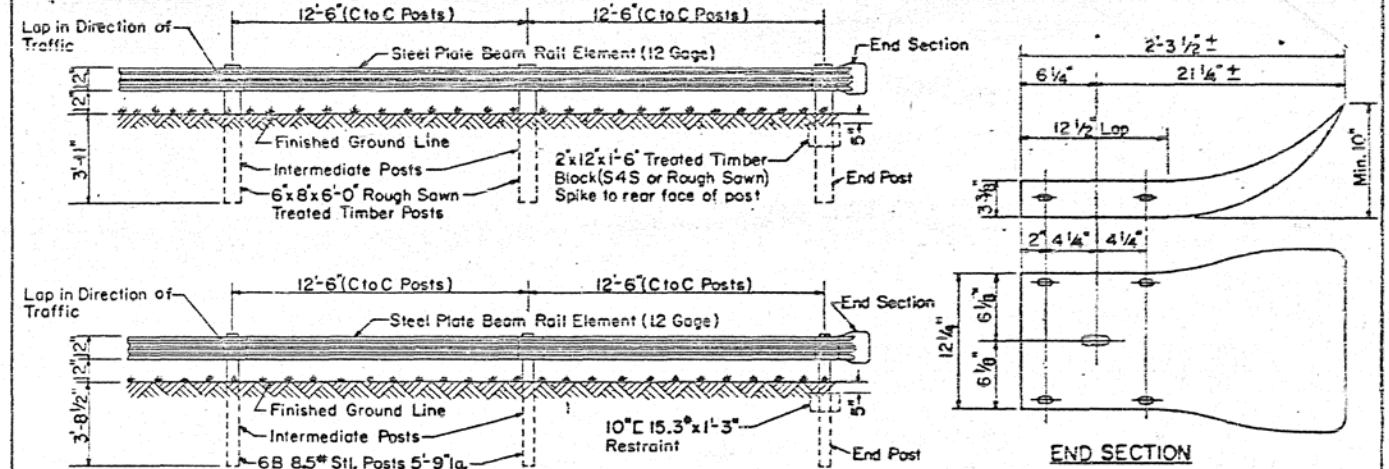
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS	
PASSED	DATE	BY	DATE
July 7, 1961		WHF.	7-7-61
Approved			
Approved			

Specification Reference: Section 75

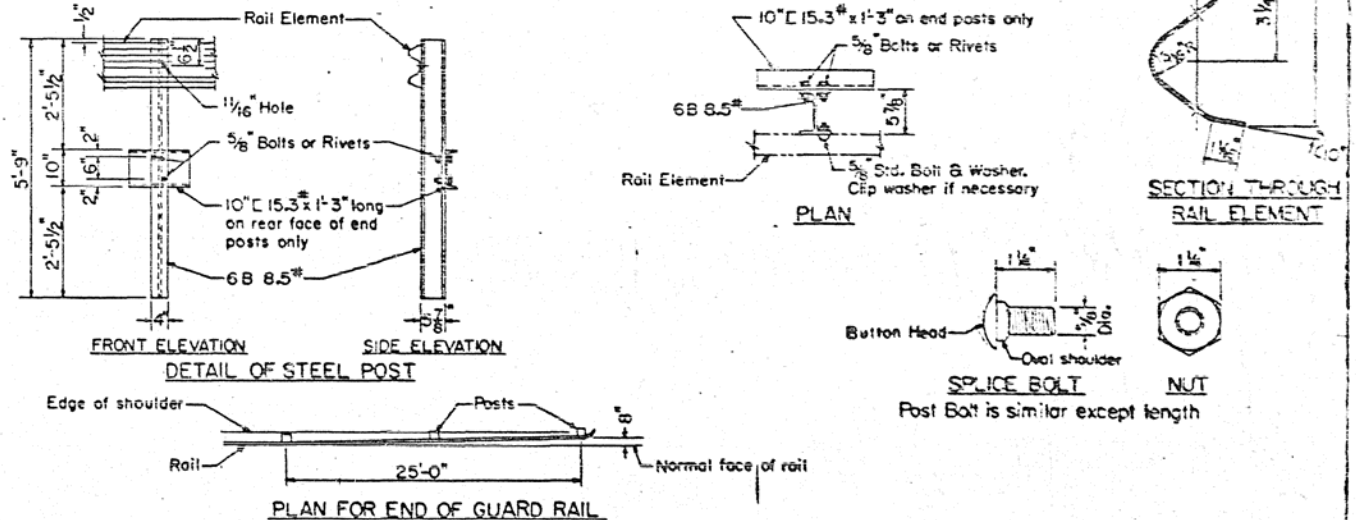
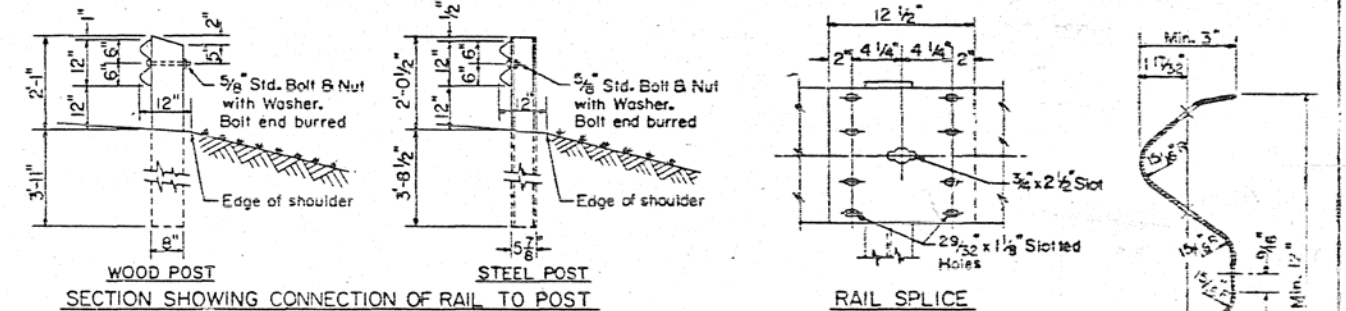
STANDARD 1538-2

Drawn 7-23-52 Redrawn 7-7-61 WHF.

STANDARD DESIGN FOR STEEL PLATE BEAM GUARD RAIL



STEEL PLATE BEAM GUARD RAIL (WOOD OR STEEL POST)

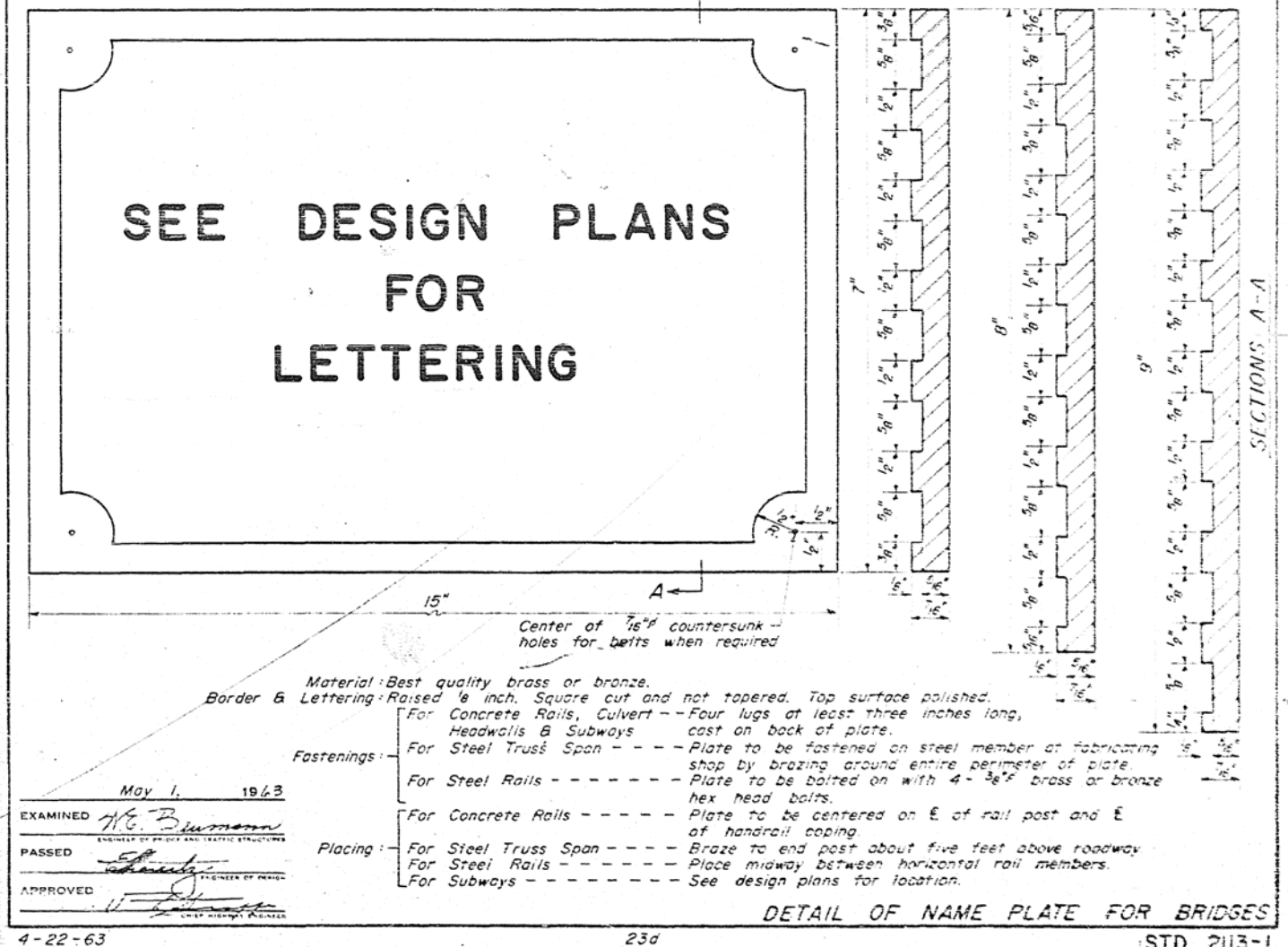
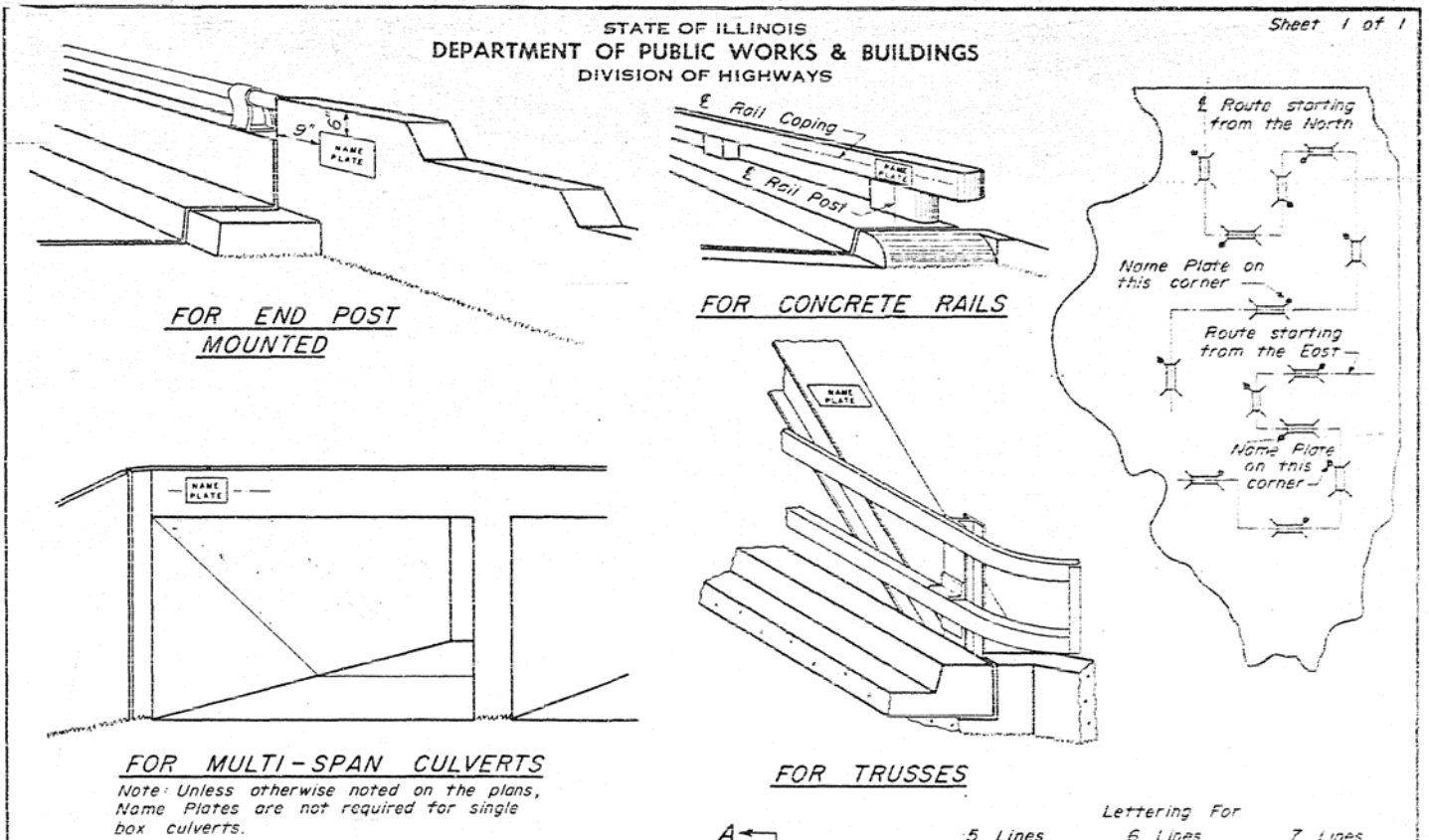
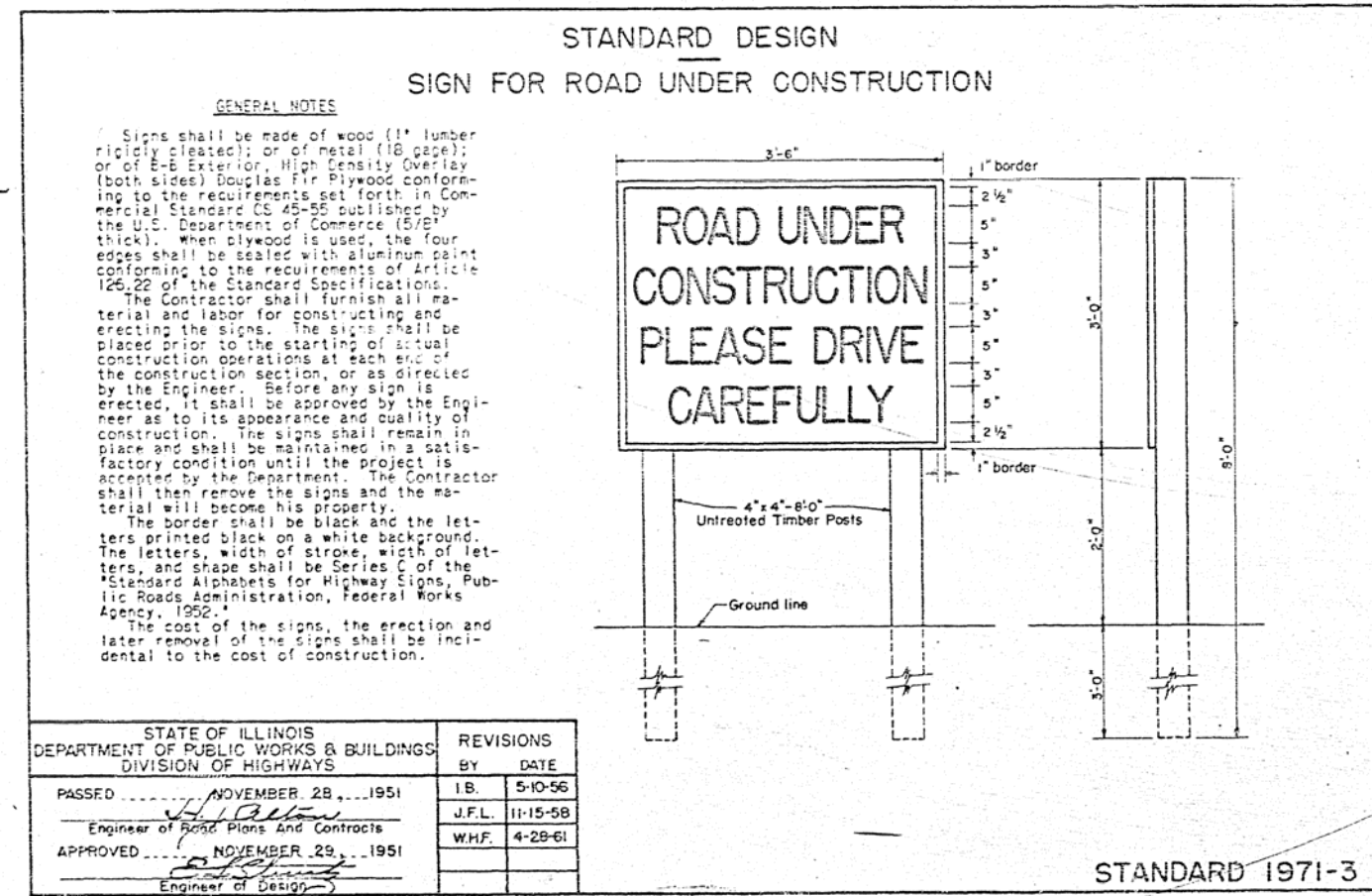
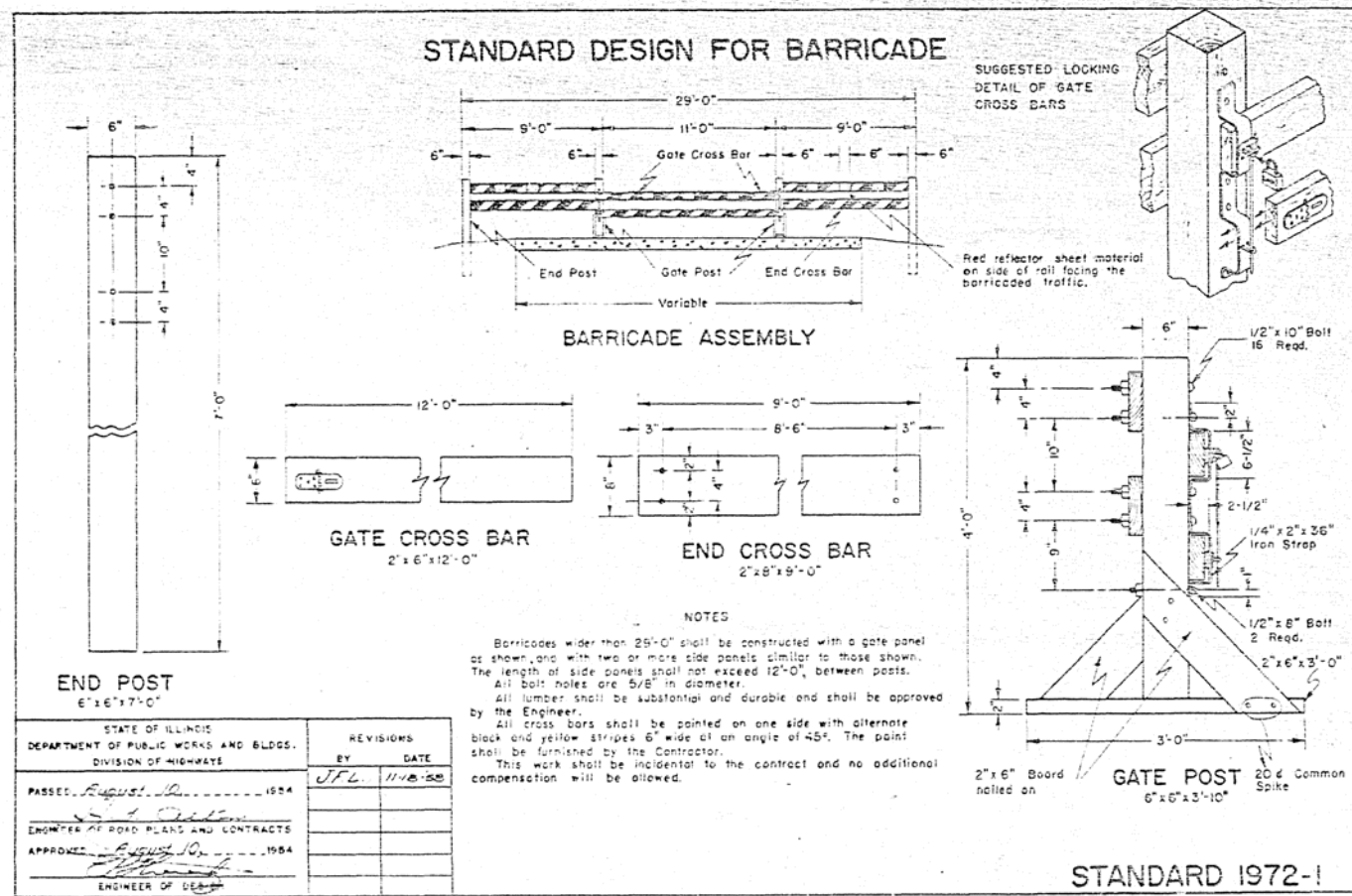


GENERAL NOTES
Either steel or galvanized steel rail elements will be permitted unless otherwise shown on the plans or specified in special provisions.
When steel posts are used with galvanized steel rail elements, the steel posts and supports, fastenings, and accessories shall be galvanized.
The rail elements, steel posts and all supports and fastenings, which are not galvanized, shall be painted as provided in Article 94.7.
All steel plate beam guard rail installed on curves having a radius of 150 feet or less shall have rail elements shop curved.
The same type of steel plate beam guard rail and posts shall be used throughout the work.

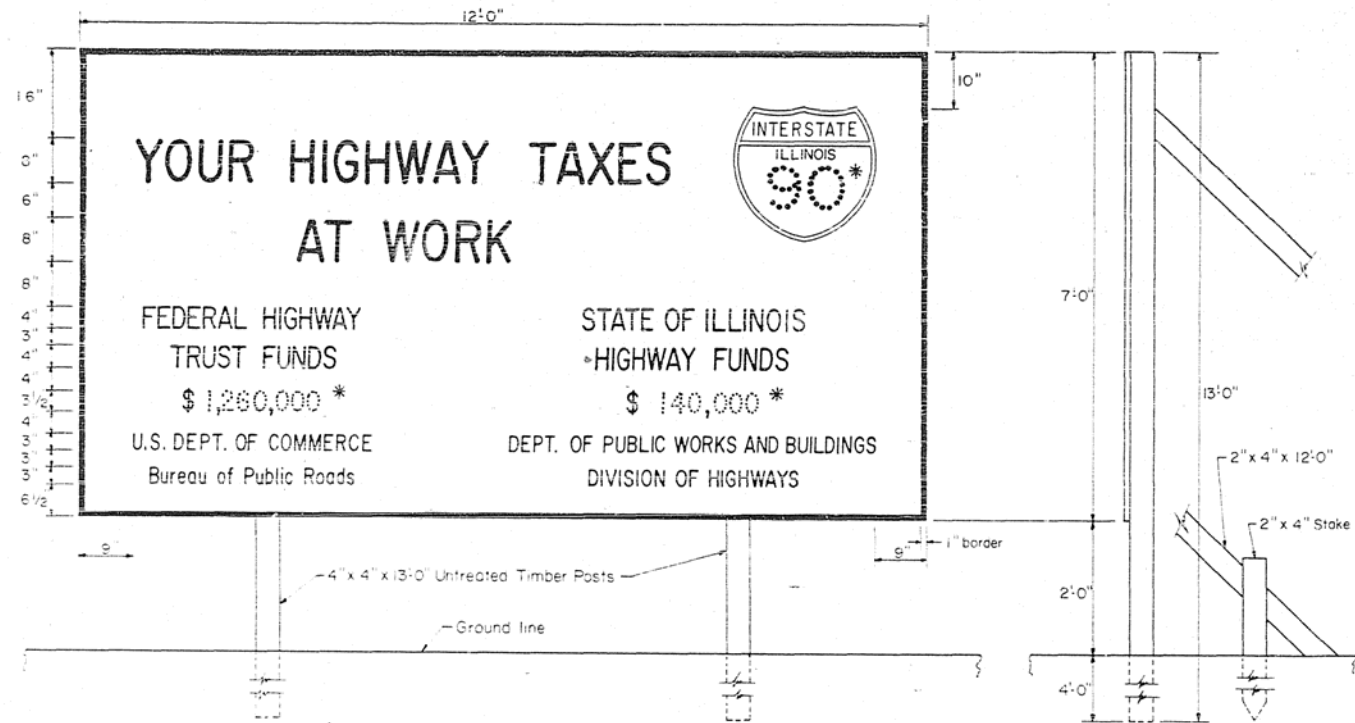
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS	
PASSED	DATE	BY	DATE
OCTOBER 1, 1959		WHF.	7-3-61
Approved			
Approved			

Specification Reference: Section 94

STANDARD 1687-3
Redrawn 8-20-59 WHF.



STANDARD DESIGN
SIGN FOR INTERSTATE SYSTEM PROJECT
(FEDERAL AND STATE)



* Data marked with an asterisk will be furnished to the Contractor by the District Engineer when a contract is awarded.

Signs shall be made of wood (1" lumber rigidly cleated); or of metal (18 gage); or of B-B Exterior High Density Overlay (both sides) Douglas Fir Plywood conforming to the requirements set forth in Commercial Standard CS 45-55 published by the U.S. Department of Commerce (5/8" thick). When plywood is used, the four edges shall be sealed with aluminum paint conforming to the requirements of Article 126.22 of the Standard Specifications.

The Contractor shall furnish all the material, including shields, and labor for constructing and erecting the signs. The signs shall be placed prior to the starting of actual construction operations. Before any sign is erected, it shall be approved by the Engineer as to its appearance and quality of construction. The signs shall remain in place and shall be maintained in satisfactory condition until the project is accepted by the Department. The Contractor shall then remove the signs and the material, including shields, will become his property.

The border shall be black and the letters printed black on a white background. The letters, width of stroke, width of letters, and shape shall be Series C of the Standard Alphabets for Highway Signs, Public Roads Administration, Federal Works Agency, 1952.

The number of signs and their location will be shown on the plans. The cost of the signs, the erection and later removal of the signs shall be incidental to the cost of construction.

SHIELD FOR SIGN

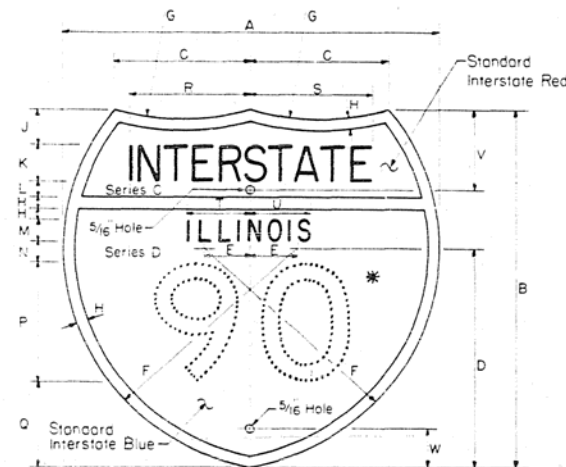
Shields shall be made of Aluminum Alloy Sheet and Plate, A.S.T.M. Designation B-209, Alloy G.S. 11A-T6; or of steel (18 gage); or B-B Exterior High Density Overlay (both sides) Douglas Fir Plywood conforming to the requirements set forth in Commercial Standard CS 45-55 published by the U.S. Department of Commerce (5/8" thick). When plywood is used, the edge of the shield shall be sealed with aluminum paint conforming to the requirements of Article 126.22 of the Standard Specifications.

Reflectorized material shall not be used.
Mounting hardware shall be rust proof.

Shield No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W
M-3-2424	24	24	6 1/2	4 1/2	3	15	15	2 1/2	2 3/8	2 1/2	1	1 1/2	1 3/8	B	5 1/2	7 5/8	7 1/8	3 5/8	3 1/8	5 3/8	2 3/8
M-3-3025	30	25	2 1/2	6 1/2	1 1/2	16 1/2	7 1/2	2 1/2	2 3/8	2 1/2	7	1 1/2	2 1/4	B	5 1/2	7 5/8	7 1/8	3 5/8	3 1/8	5 3/8	3 3/8

NOTE:

Use Shield No. M-3-2424 for two digit route number.
Use Shield No. M-3-3025 for three digit route number.



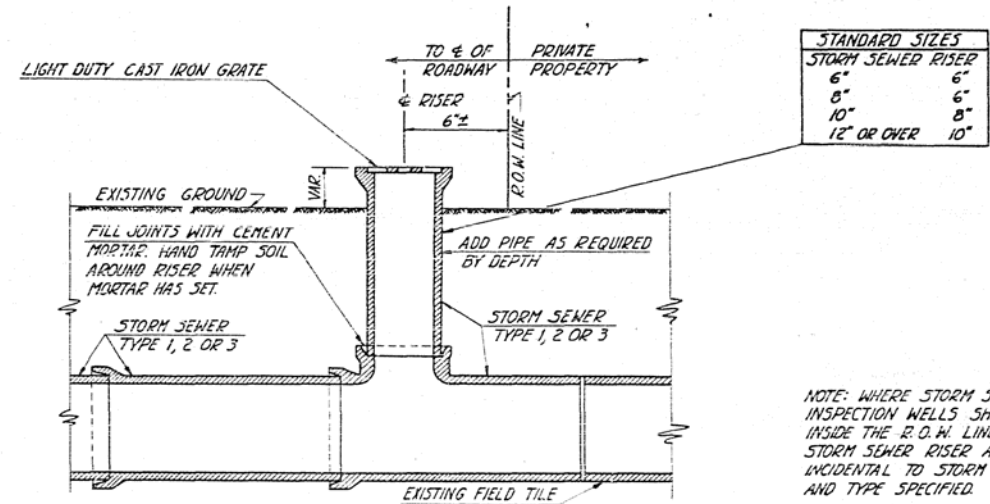
Background, as indicated, Red or Blue; the colors to conform to the standard colors shown in the A.A.S.H.O. Manual for Signing and Pavement Marking of the National System of Interstate and Defense Highways.
Letters, numerals, and border, White.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS	
PASSED	DATE	BY	DATE
PASSED	November 30, 1960	W.F.	4-1-64
APPROVED	November 30, 1960		

STANDARD 2153-4
(Half Size) Redrawn 4-1-64 W.F.

INSPECTION WELL DETAIL

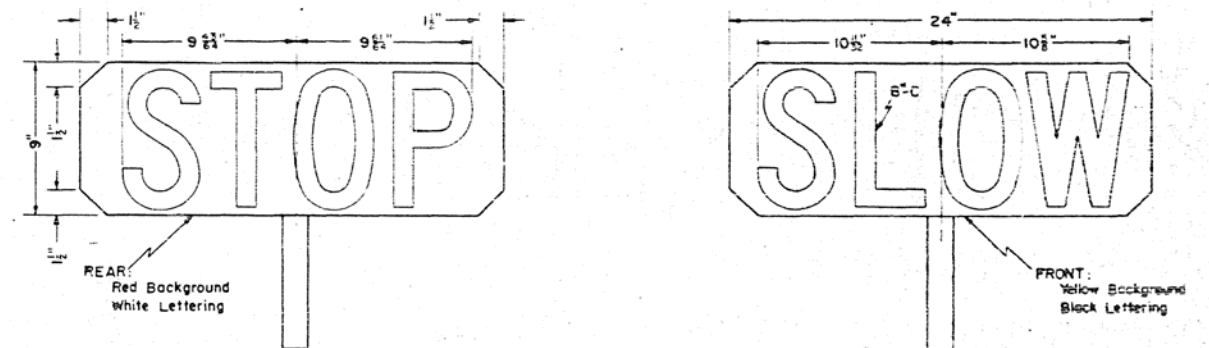
ROUTE NO.	DIST.	COUNTY	SECTION	POST-MILE
F.A.I. 57	10-318-A	CHAMPAIGN	52	3.4



STANDARD SIZES	
STORM SEWER RISER	STORM SEWER
6"	6"
8"	6"
10"	8"
12" OR OVER	10"

NOTE: WHERE STORM SEWER CROSSES R.O.W. INSPECTION WELLS SHALL BE PLACED 6" INSIDE THE R.O.W. LINE. STORM SEWER RISER AND GRATE TO BE INCIDENTAL TO STORM SEWERS OF THE SIZE AND TYPE SPECIFIED.

STANDARD DESIGN FOR
FLAGMAN TRAFFIC CONTROL SIGN



NOTE:
The paddle type sign used by the flagmen to direct traffic shall be constructed with "STOP" on one side and "SLOW" on the reverse side.

Signs may be constructed with a short handle or a long staff which rests on the ground.

The material for the sign shall be 1/4" Exterior-Grade A-A Plywood or Exterior D.F.P.A.-2 sides sound.

These signs shall be furnished by the Contractor and shall be used by the flagmen in lieu of red flags or other signaling devices.

The cost of furnishing and maintaining the signs will be considered incidental to the contract and no additional compensation will be allowed.

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BLDGS. DIVISION OF HIGHWAYS		REVISIONS	
PASSED	DATE	BY	DATE
PASSED	April 6, 1954		
APPROVED	April 12, 1954		

STANDARD 2114