

723415

IPE 4056277

NOTE: THE CONTRACTOR SHALL MAKE OWN INVESTIGATION AND ARRANGEMENTS FOR TRACKAGE FACILITIES

THE CONTRACTOR SHALL PROVIDE AN EFFECT BARRICADE AND WARNING SIGN ACCORDANCE WITH PC-74(1) THROUGH (6) AT POINTS INDICATED AND AT OTHER PLACES AS DIRECTED.

Final Plans

STATE OF TEXAS STATE HIGHWAY DEPARTMENT PLAN OF PROPOSED STATE HIGHWAY IMPROVEMENT

STATE PROJECT
C9-2-28, C9-3-15, C281-3-19
PLAN 1 IN = 50 FT.
SCALE: PROFILE 1 IN HOR = 50 FT, 1 IN VERT = 10 FT
CROSS SECTIONS 1 IN HOR AND VERT = 5 FT

DALLAS COUNTY
S.H. 78 AND S.H. 66

LETTING DATE: 11-13-74
DATE WORK BEGAN: 12-17-74
DATE WORK COMPLETE: 1-30-76
DATE WORK ACCEPTED: 2-2-76
No Extra Work Orders

S.H. 78 FROM EXISTING S.H. 78 IN GARLAND ALONG AVENUE "B" TO FIRST STREET AND ALONG FIRST STREET FROM AVENUE "D" TO EXISTING S.H. 78 (IPE 405)
S.H. 66 FROM PROPOSED S.H. 78 TO NEAR DAIRY ROAD (IPE 277)
PROJECT LENGTH: 9,546.2 FT = 1.78 MILES
TYPE GRADING, STORM SEWERS, BASE AND CONCRETE PAVEMENT

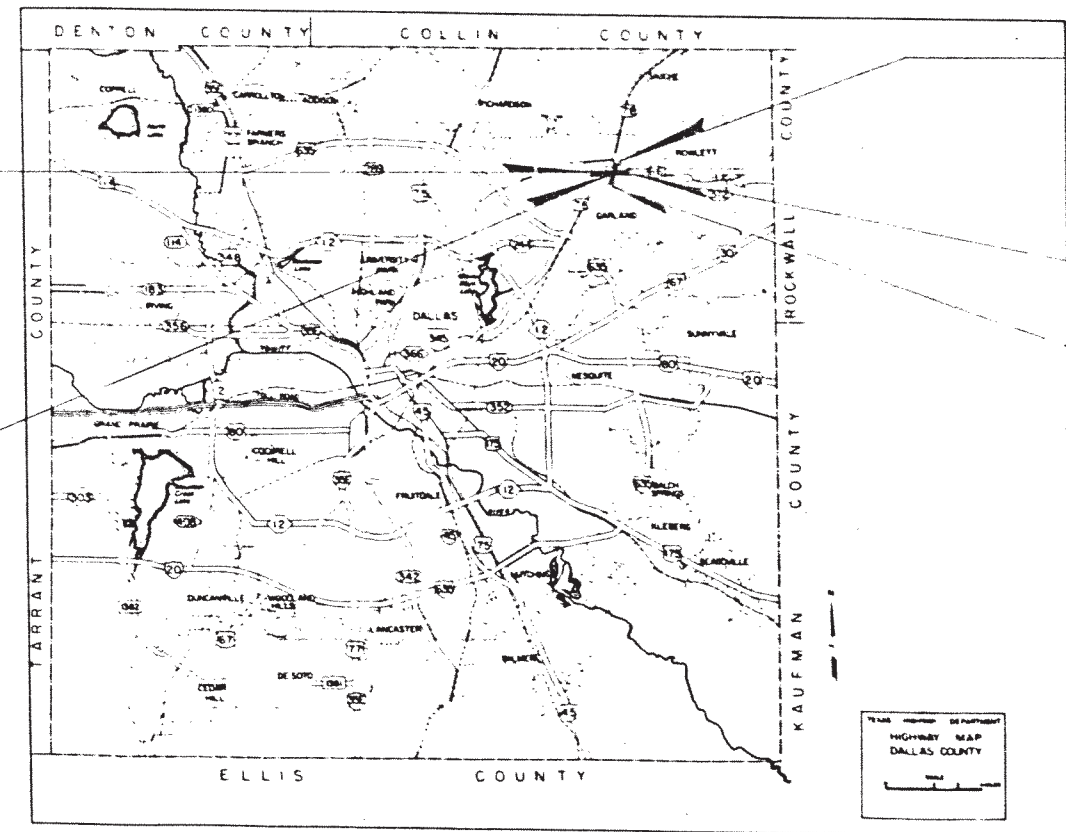
STATION	FEET	MILES	STATION	FEET	MILES	STATION	FEET	MILES
9-2-28	5,177.37	0.980	9-3-15	13,271.25	0.610	281-3-19	281,319	1.610

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PROJECT LAYOUT
4	SEQUENCE OF WORK (Sheet 3 Omitted)
5-6	TYPICAL SECTIONS
7-10	SPECIFICATION DATA
11-12	ESTIMATE AND QUANTITY
13-17	SUMMARY SHEETS
18-24	PLAN-PROFILE SHEETS
25-26	INTERSECTION DETAIL SHEETS
27-28	MISCELLANEOUS DETAILS
29-32	DRAINAGE DATA AND COMPUTATIONS
33-39	STORM SEWER LAYOUTS AND PROFILES
40-42	CULVERT PROFILES AND DETAILS
43-48	INLET AND MANHOLE DETAILS
49	CPCD-71 (REV)
50	JS-71 (MOD)
51	CH-11
52	CH-11-B-30°
53	SC-NA
54	MCW-P-15°
55	MCW-P (MOD)
56	MCW-P-15° (MOD)
57-58	MC-15° (MOD)
59	MC5-1 (MOD)
60	MC8-2 (MOD)
61	RAIL TY T 101
62	GF (FD) 74
63	CUT AND CONSTRUCTION JOINT DETAIL
64-69	BCH THRU BC (G)-74

FIELD CHANGES

NO. 1 ADD 19' CH-NEWAYS.
NO. 2 TO 10' CH-3-19. L.T. STA. 13+00
TO 15+00. THE EXISTING CURVE
AND REPAIR WITH 10' CH-3-19.
STATION 6+50 TO STA. 7+30. ADD
CONC. CURB 3' WIDE AT THE FOLLOWING LOCATIONS:
9TH ST. 16.6 LF 10TH ST. 10.7 LF 11TH ST. 32.3 LF
12TH ST. 35.7 LF 13TH ST. 15.6 LF L.T. STA. 74+30 17.6 LF

Sta. 49+85 = Begin Project C9-2-28
Control 9-2-28
Sta. 102+78.75 = End Project C9-2-28
Control 9-2-28 (S.H. 78)
Begin Project C9-3-15
Control 9-3-15 (S.H. 66)
Sta. 16+83.18 = Begin Project C281-3-19
Control 281-3-19 (S.H. 78)



Sta. 21+36 = End Project C9-2-28
Control 281-3-19 (S.H. 78)
Sta. 135+00 = End Project C9-3-15
Control 9-3-15 (S.H. 66)
Sta. 35+00 Project US 2792 (4)
Control 9-3-16
Sta. 10+40 = Begin Project C281-3-19
Control 281-3-19

CITY OF GARLAND
APPROVED: [Signature]
CITY MANAGER

CONVENTIONAL SIGNS	
STATE OR NATIONAL LINE	—
CITY OR VILLAGE LINE	—
COUNTY LINE	—
BASE OF SURVEY LINE	—
RIGHT OF WAY LINE	—
FENCE LINE	—
RAILROAD	—
TRAVELING WAY	—
CULVERT OR BRIDGE	—
POWER LINE	—
TELEGRAPH OR TELEPHONE	—

SPECIFICATIONS ADOPTED BY THE STATE HIGHWAY DEPARTMENT OF TEXAS JANUARY 3, 1972 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: TEXAS LABOR PROVISIONS, P.L. 1972
PROJECT: 1-10-72, 1-10-72

NO EQUATIONS
4- EXCEPTIONS: 83+36.77-83+47.23, 83+89.77-84+00.23, 84+07.77-84+18.23, 84+62.57-87+47.57 = -116.38 FT. (CONT. 9-2-28)
ONE RAILROAD CROSSING: (A.T. & S.F.R.R.)
LAYOUT SCALE: 1 IN. = 4 MI.

TEXAS HIGHWAY DEPARTMENT

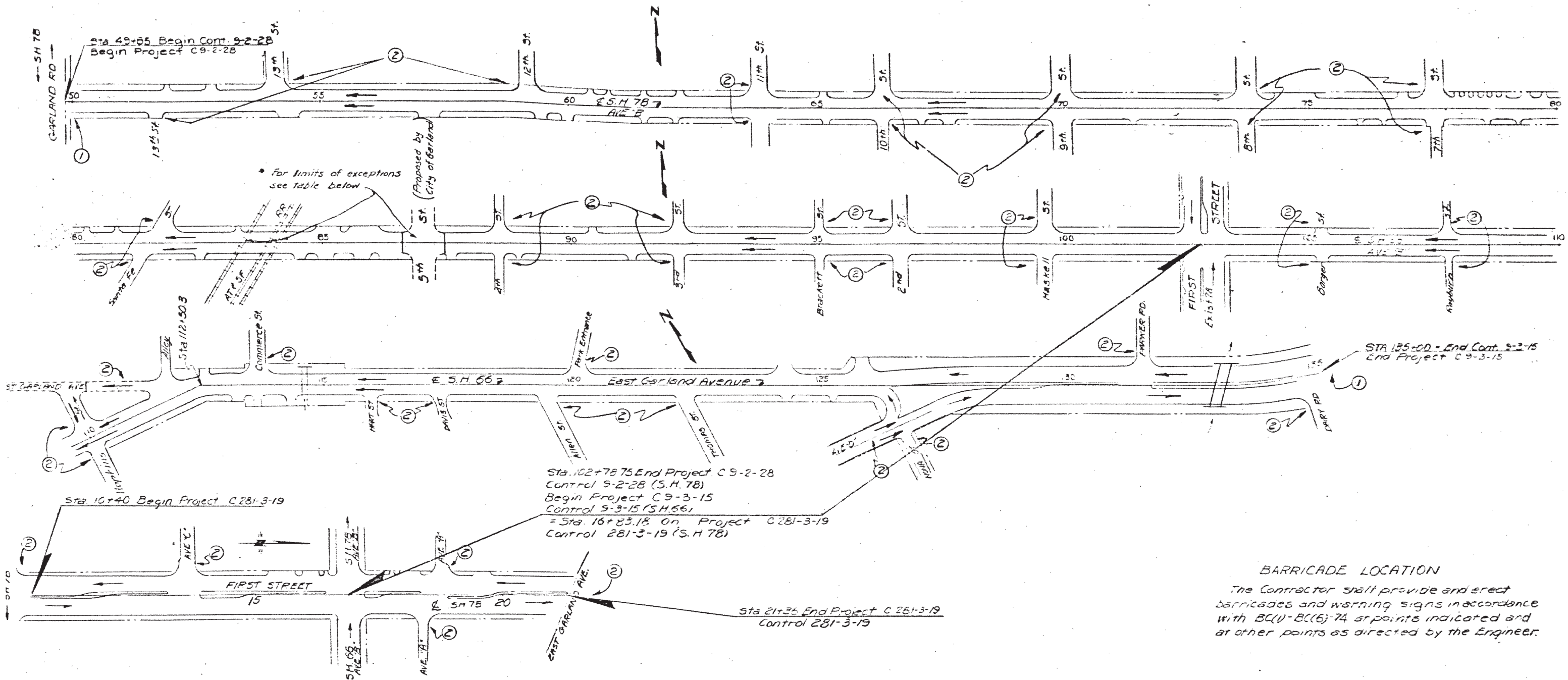
CORRECT: 3 Feb. 1972
W.P. Walker
SUPERVISOR ENGINEER

CORRECT: 5-9-72
J.R. Kinkaid
DISTRICT DESIGN ENGINEER

CORRECT: 5-6-72
[Signature]
SUPERVISOR ENGINEER

CORRECT: 3-9-72
[Signature]
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL: [Signature]
RECOMMENDED FOR APPROVAL: [Signature]
APPROVED: [Signature]
CHIEF ENGINEER OF HIGHWAY DESIGN



BARRICADE LOCATION

The Contractor shall provide and erect barricades and warning signs in accordance with BC(1)-BC(6)-74 at points indicated and at other points as directed by the Engineer.

- ① Barricades Class 1(C) with signs G20-1, G20-6, CN20-1D, G20-2 & R10-8.
- ② Signs CW20-1D and R10-8

LIMITS OF EXCEPTIONS

A.T. & S.F.R.R.

63+36.77-83+47.23

83+89.77-84+00.23

84+07.77-84+18.23

5th Street

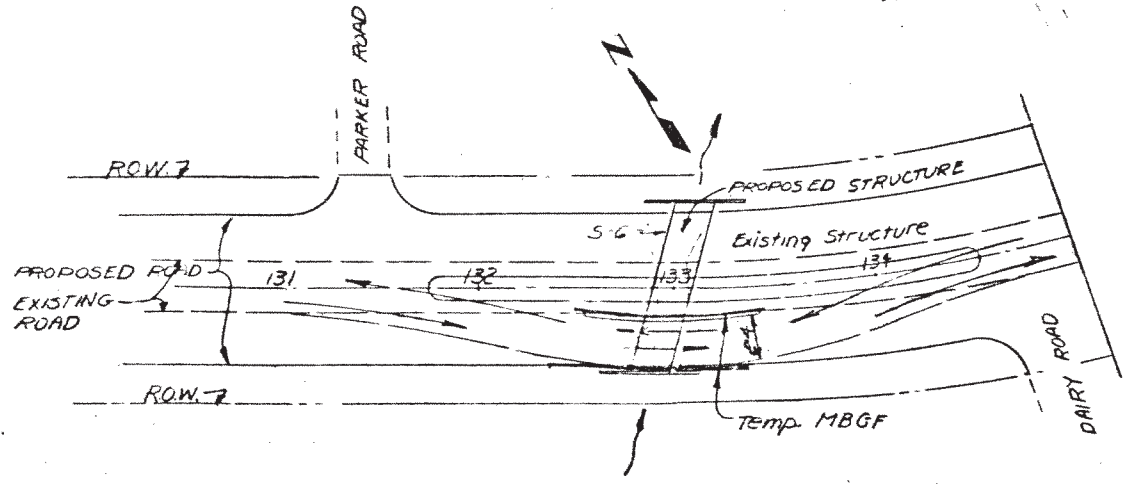
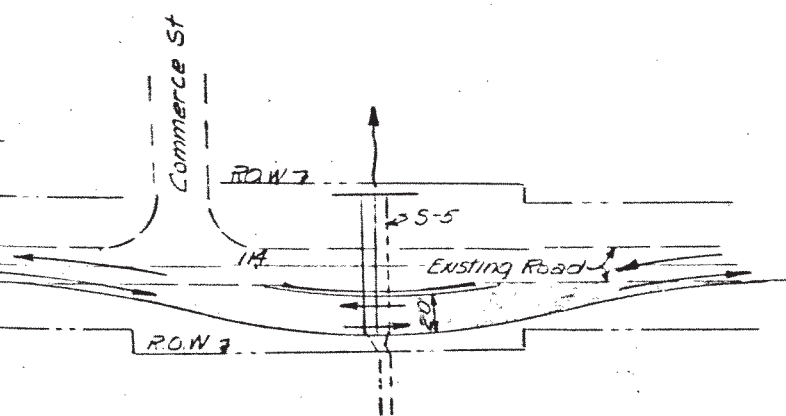
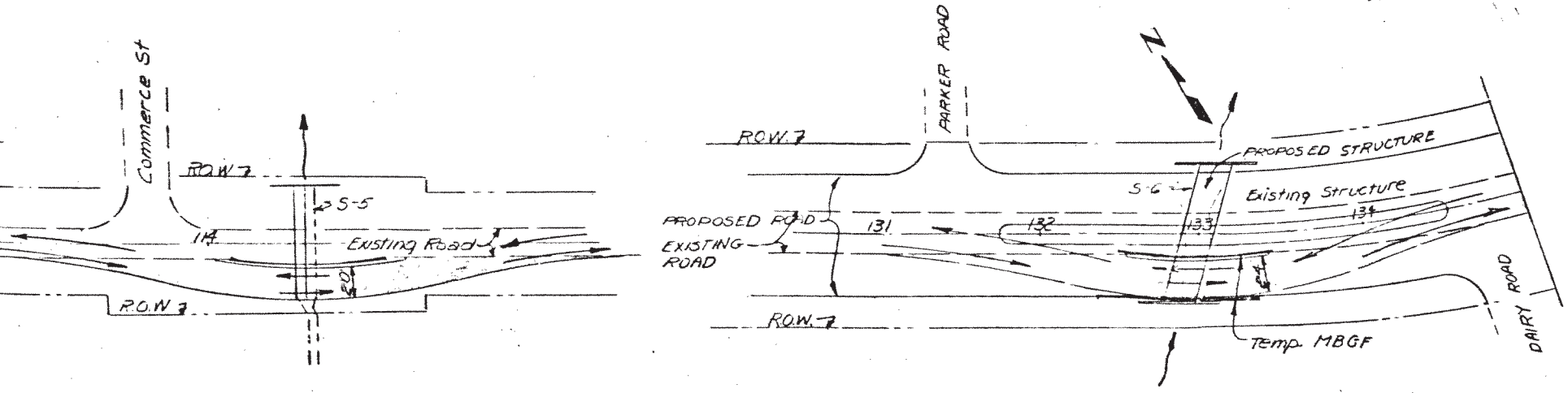
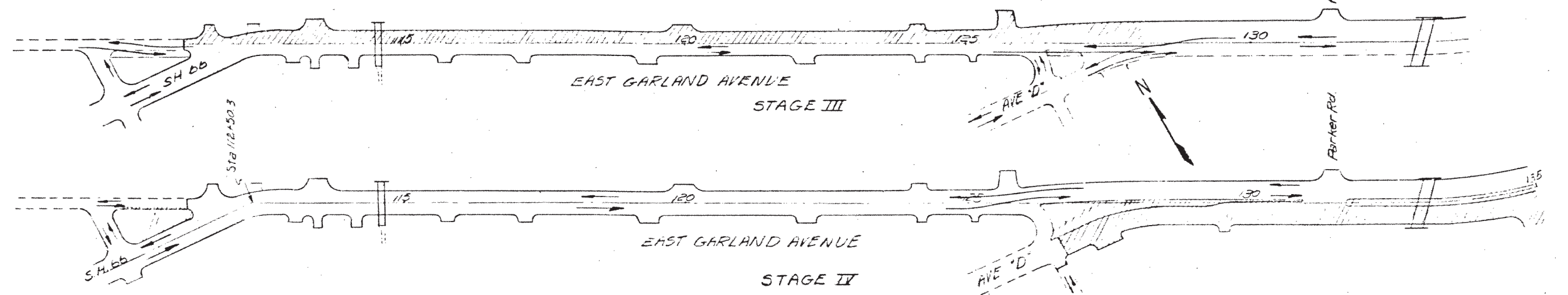
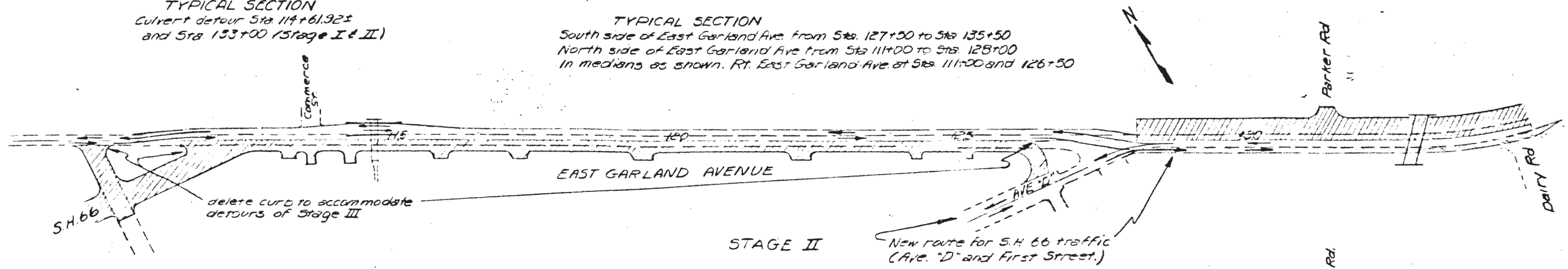
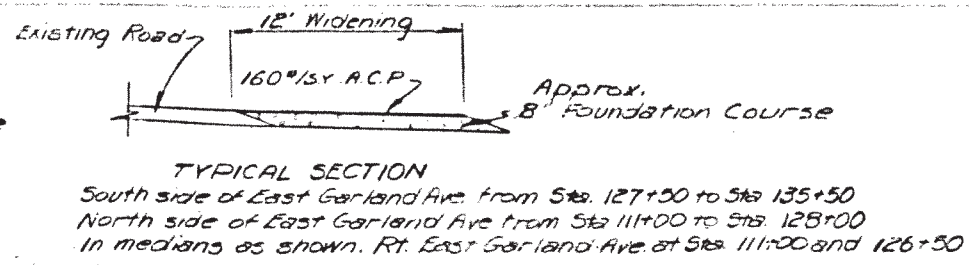
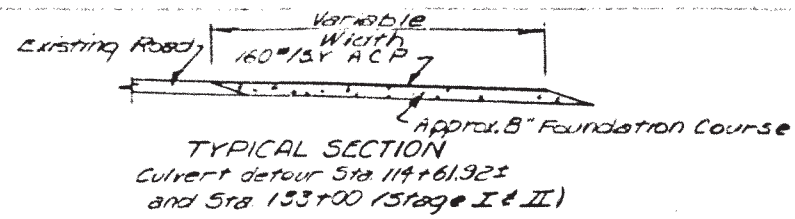
86+62.57-87+47.57

PROJECT LAYOUT SHEET
SCALE: 1" = 100'

2

C9-2-28, etc.

18 DALLAS 9-2-28

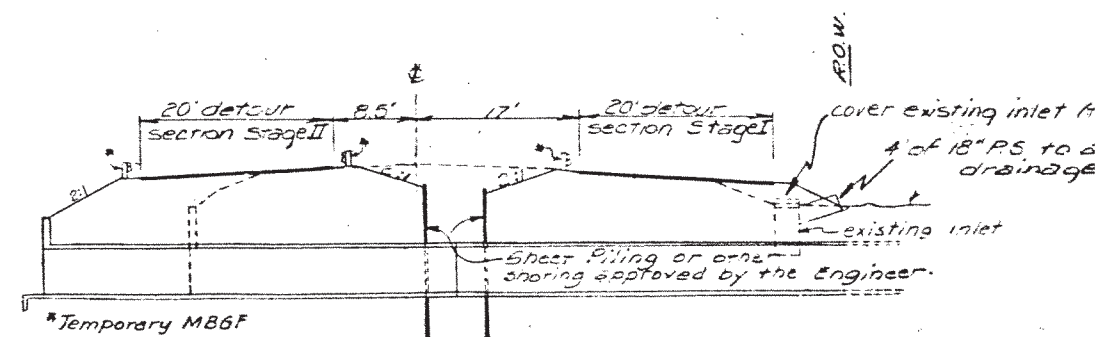


STAGE I.

Note:
Use a minimum of 2' clearance from the edge of the roadway to the face of the temporary MBGF

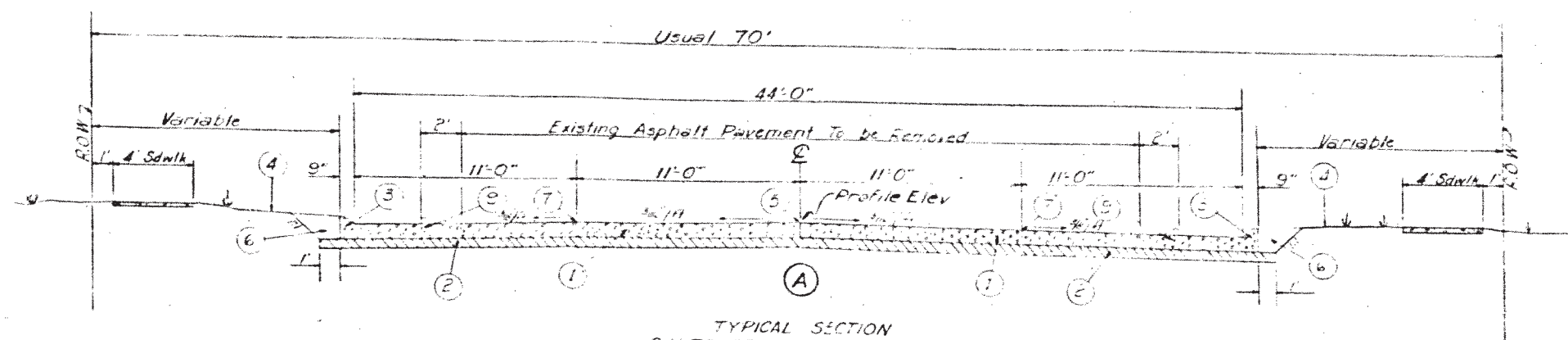
LEGEND

- - TEMPORARY DETOUR
- ▨ - ROAD SECTION TO BE E

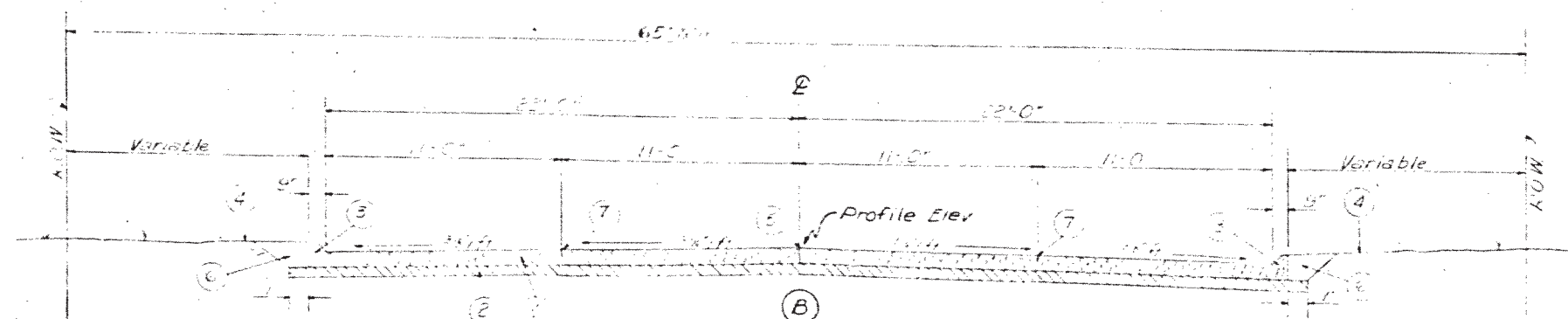


STAGE CONSTRUCTION FOR CULVERT AT STATION 114+62 ±

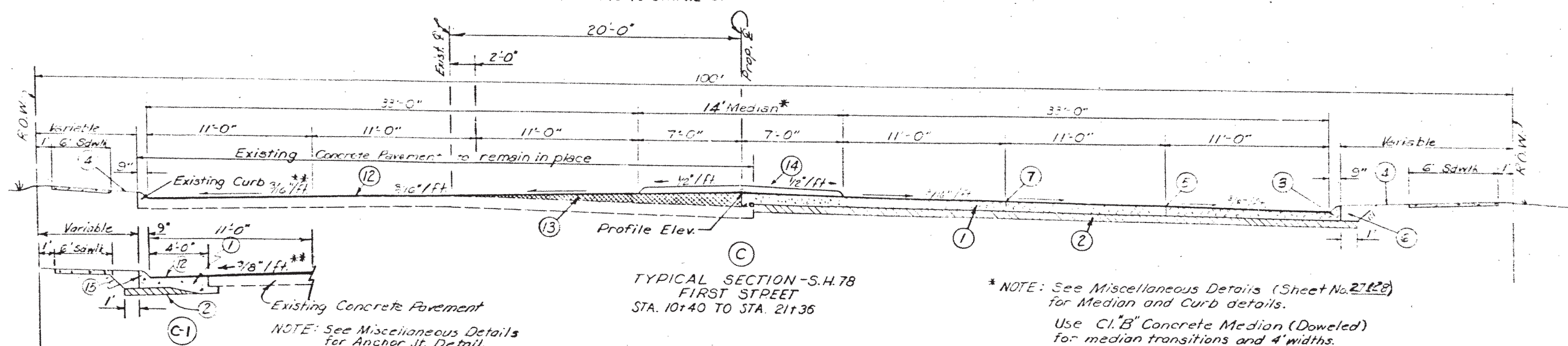
SUGGESTED SEQUENCE OF WORK



TYPICAL SECTION
SH 78 FROM GARLAND ROAD
TO SANTA FE STREET
STA 49+85 TO STA 81+50



TYPICAL SECTION
SH 78 FROM SANTA FE STREET
TO 1st STREET STA 81+50 TO STA 102+78.75
SH 66 FROM 1st STREET TO EAST
GARLAND AVE STA 102+78.75 TO STA 112+50.3



TYPICAL SECTION - S.H. 78
FIRST STREET
STA. 10+40 TO STA. 21+36

* NOTE: See Miscellaneous Details (Sheet No. 271-28)
for Median and Curb details.
Use Cl. "B" Concrete Median (Doweled)
for median transitions and 4' widths.

TYPICAL SECTION S.H. 78 (FIRST STREET)
This section to be used between the following
limits where existing Concrete Pavement is to
be removed to facilitate installation of Storm Sewer.
Sta. 15+08 to Sta. 16+46 & Sta. 17+30 to Sta. 20+54

** NOTE: From Sta 14+50 to Sta. 16+61 the crown
slope shall be $\frac{3}{8}$ "/Ft. for the outside
11' Lane. (Begin Transition from $\frac{3}{16}$ "/Ft.
to $\frac{3}{8}$ "/Ft. @ Sta. 13+00)

LEGEND

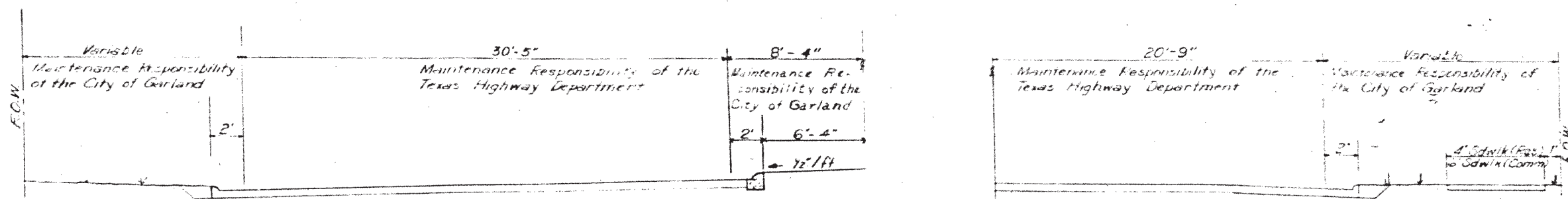
- ① 9 IN. CONCRETE PAVEMENT CPCD
- ② LIME STABILIZED SUBGRADE (APPROX. 6 IN.)
- ③ MONO CURB (TYPE I)
- ④ 4 IN. MULCH SOO AND FERTILIZER
- ⑤ CONSTRUCTION JOINT
- ⑥ EARTH BACKFILL
- ⑦ LONGITUDINAL JOINT
- ⑧ 160#/SY ASPHALTIC CONCRETE PAVEMENT
- ⑨ EXISTING CURB AND GUTTER TO BE REMOVED
- ⑩ PRIME COAT
- ⑪ APPROX. 12 1/2 IN (AVG) FOUNDATION COURSE (LIME STA
- ⑫ 110#/SY ASPHALTIC CONCRETE PAVEMENT
- ⑬ 375#/SY (AVG) ASPHALTIC CONCRETE PAVEMENT
- ⑭ CONCRETE MEDIAN (4 IN) (DOWEL)
- ⑮ MONO CURB (TYPE I A)
- ⑯ MONO CURB (TYPE II)

TYPICAL SECTIONS

Scale 1" = 4'
SHEET 1 OF 2

C9-2-25,

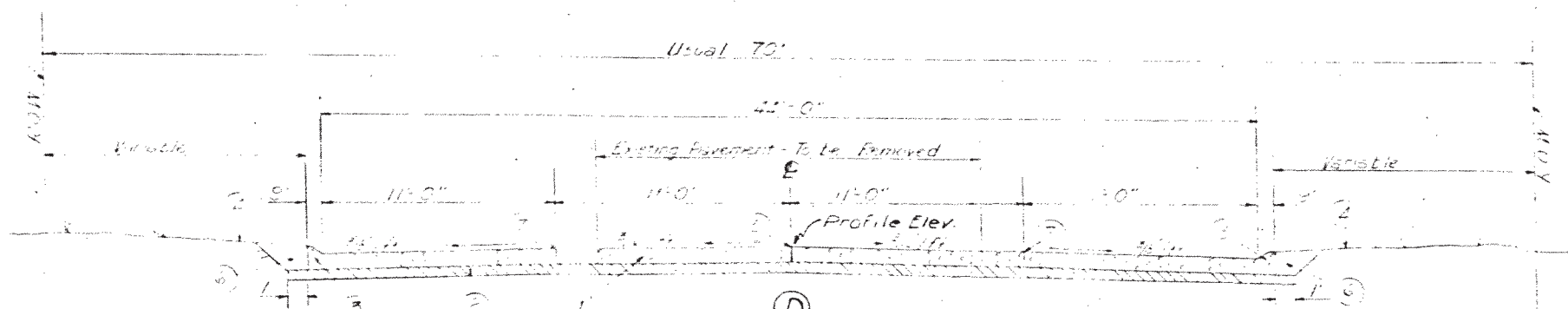
18 DALLAS 9 2



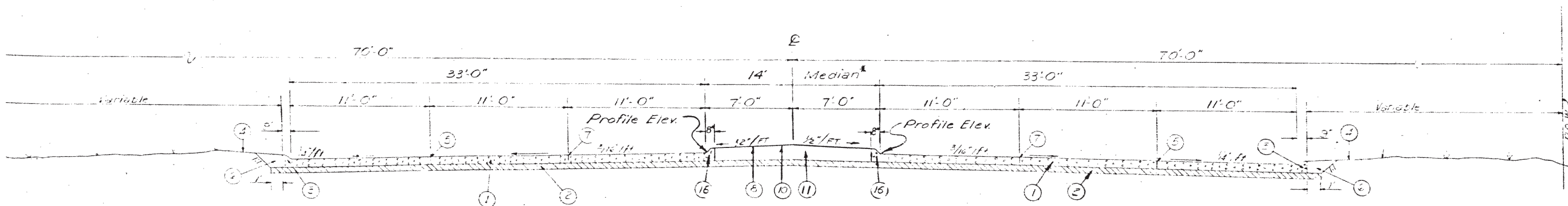
HALF SECTIONS
MAINTENANCE AGREEMENT
Showing the respective maintenance responsibilities
of the Texas Highway Department and the City
of Garland on SH 76 and SH 66

LEGEND

- ① 9 IN. CONCRETE PAVEMENT CPCD
- ② LIME STABILIZED SUBGRADE (APPROX. 6 IN.)
- ③ MONO. CURB (TYPE I)
- ④ 4 IN. MULCH SOD AND FERTILIZER
- ⑤ CONSTRUCTION JOINT
- ⑥ EARTH BACKFILL
- ⑦ LONGITUDINAL JOINT
- ⑧ 160#/S.Y. ASPHALTIC CONCRETE PAVEMENT
- ⑨ EXISTING CURB AND GUTTER TO BE REMOVED
- ⑩ PRIME COAT
- ⑪ APPROX. 12" (AVG) FOUNDATION COURSE (LIME STAB.)
- ⑫ 110#/S.Y. ASPHALTIC CONCRETE PAVEMENT
- ⑬ 375#/S.Y. (AVG) ASPHALTIC CONCRETE PAVEMENT
- ⑭ CONCRETE MEDIAN (4 IN.) (DOWEL)
- ⑮ MONO. CURB (TYPE IA)
- ⑯ MONO. CURB (TYPE I)



TYPICAL SECTION
SH 66 FROM AVENUE "B" EXTENDED
TO AVENUE "D"
STA 112+50.3 TO STA. 126+00



TYPICAL SECTION
S.H. 66 FROM AVENUE "D"
TO NEAR DAIRY ROAD
STA. 126+00 TO STA. 135+00

NOTE: See Miscellaneous Details (Sheet No. 2712B)
for Median and Curb details.
Use C1 "B" Concrete Median (Doweled)
for median transitions and 4' widths.

TYPICAL SECTIONS

SCALE 1" = 4'
SHEET 2 OF 2

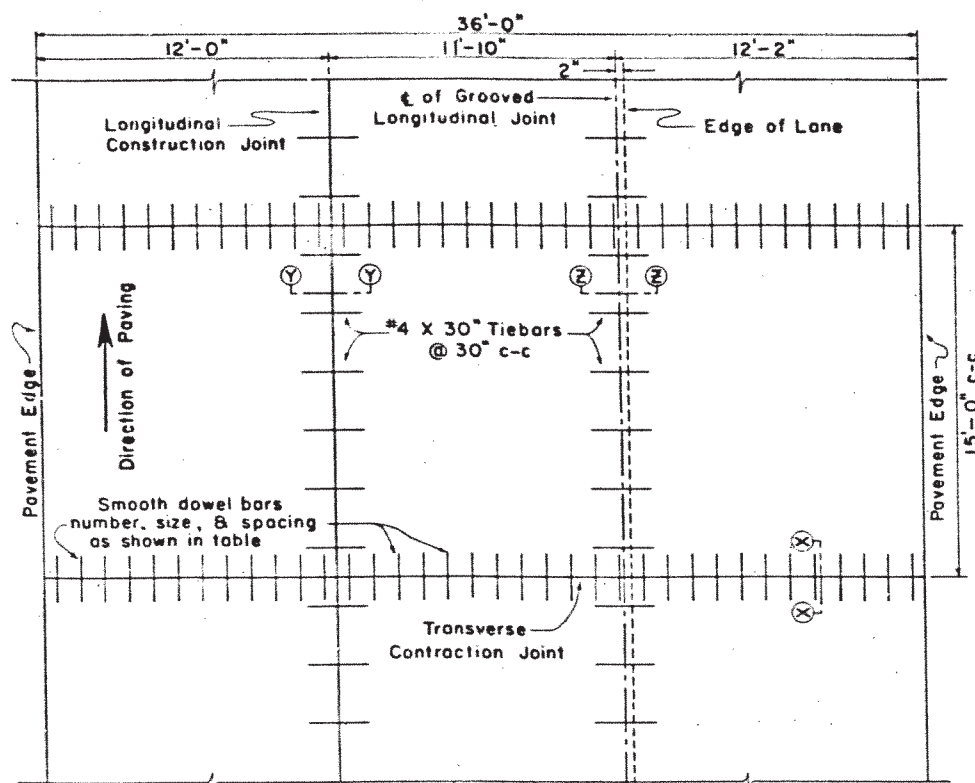
09-2-25, etc

DALLAS 9 2 25

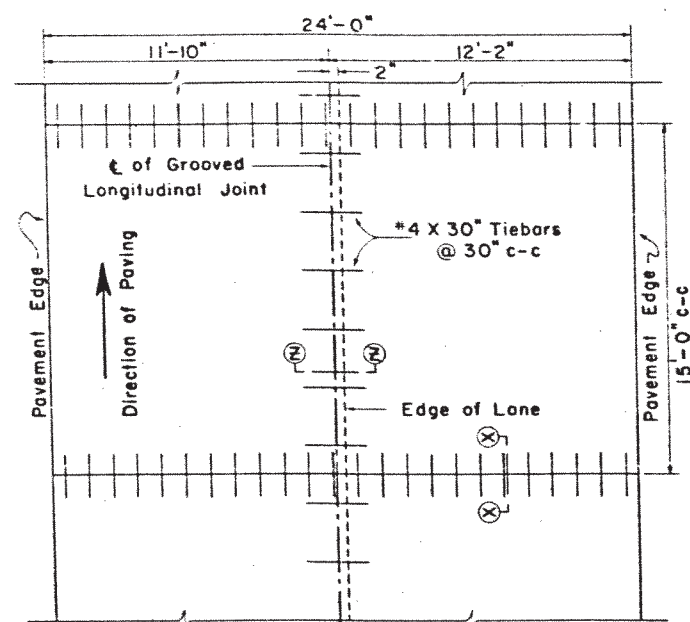
GENERAL NOTES

1. NO EXPANSION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSEWHERE IN THE PLANS.
2. FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND LOAD TRANSFER DEVICES REFER TO THE GOVERNING SPECIFICATIONS FOR "CONCRETE PAVEMENT".
3. DETAILS AS TO PAVEMENT WIDTH, PAVEMENT THICKNESS, AND THE CROWN CROSS-SLOPE SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
4. JOINT/GROOVE AND SEAL DETAILS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
5. TIEBARS SHALL BE SECURED PARALLEL TO THE PAVEMENT SURFACE AND PERPENDICULAR TO THE CENTERLINE BY:
 - (a) USE OF BAR CHAIRS
 - (b) ACCURATELY PLACED IN POSITION ON THE SCAFFOLD CONCRETE BY MEANS OF AN APPROVED TEMPLATE AND FORCED TO THE PROPER POSITION WITH A SUITABLE TOOL; OR
 - (c) BY ANY OTHER MEANS WHICH, PRIOR TO ITS USE, HAS BEEN APPROVED BY THE ENGINEER.
6. DOWEL BARS SHALL BE SECURED PARALLEL TO THE PAVEMENT SURFACE AND CENTERLINE BY A DOWEL BAR CHAIR.
7. WHEN WORK IS STOPPED DUE TO BREAKDOWN OR OTHER CAUSE, CONCRETE SHALL BE REMOVED BEYOND LAST CONTRACTION JOINT IN PLACE AND A HEAVY INSTALLATION.
8. WHERE A MONOLITHIC CURB IS SPECIFIED, THE JOINT IN THE CURB SHALL COINCIDE WITH PAVEMENT JOINTS AND MAY BE FORMED BY ANY MEANS WHICH, PRIOR TO ITS USE, HAS BEEN APPROVED BY THE ENGINEER.
9. CONSTRUCTION JOINTS MAY BE FORMED BY USE OF METAL OR WOOD FORMS EQUAL IN DEPTH TO THE NOMINAL DEPTH OF THE PAVEMENT, OR BY OTHER MEANS WHICH HAVE BEEN APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
10. LONGITUDINAL AND TRANSVERSE STEEL SPACING SHALL NOT VARY MORE THAN ONE TWELFTH OF THE SPACING SHOWN HEREON.
11. THE TIEBAR SPACINGS SHOWN ARE FOR ASTM DESIGNATIONS: A-615, OR A-616, GRADE 60, TIEBARS, WHICH SHALL NOT BE BENT. IF TIEBARS ARE TO BE BENT, THEY SHALL BE STEEL CONFORMING TO ASTM DESIGNATION: A-615, GRADE 40, WITH A CENTER TO CENTER SPACING OF 24 INCHES.
12. SEE RC (PCRB-71) FOR STEEL PLACING REQUIREMENTS IN THE AREA OF CONFLUENCE AT RAMP TERMINALS.

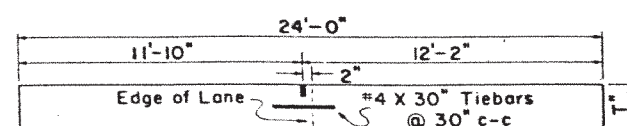
DEPTH OF PAVEMENT (INCHES)	DOWELS (SMOOTH BARS)		
	SIZE AND LENGTH	AVERAGE SPACING (INCHES)	WEIGHT PER FOOT OF JOINT (LBS)
8	1" X 18"	12	4.01
9	1 1/8" X 20"	12	5.63
10	1 1/4" X 22"	12	7.65
11	1 3/8" X 24"	12	10.10



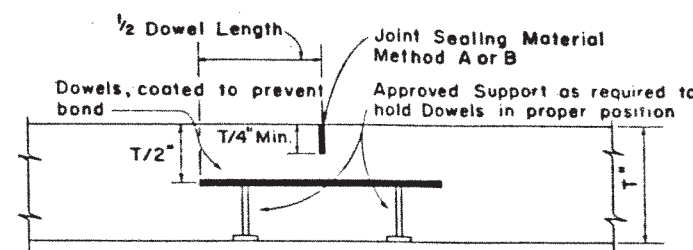
THREE LANE PAVEMENT PLAN
(12 ft. & 24 ft. Placement)*



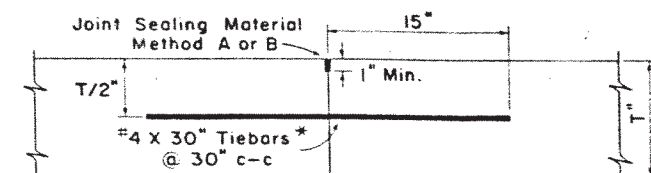
TWO LANE PAVEMENT PLAN



TYPICAL SECTION
(24 ft. Placement)*

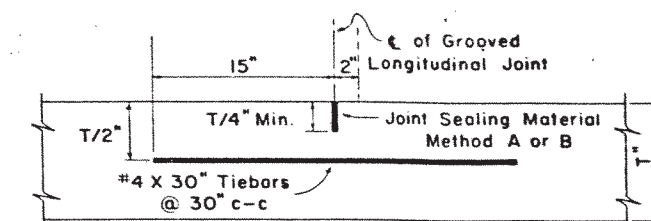


TRANSVERSE CONTRACTION JOINT
Section X-X



LONGITUDINAL CONTRACTION JOINT
Section Y-Y

*WITH THE APPROVAL OF THE ENGINEER, MULTIPLE-PIECE TIEBARS (THREADED COUPLING OR OTHER ADEQUATE DEVICE) MAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVELOPS A FORCE EQUAL TO 1 1/2 TIMES THE MINIMUM FORCE OF THE TIEBAR SHOWN. THE SPACINGS FOR THE SYSTEM SHALL BE LESS THAN OR EQUAL TO THE SPACING ALLOWED FOR BARS OF SIMILAR YIELD STRENGTH.



GROOVED LONGITUDINAL JOINT
Section Z-Z

* Lane widths are for illustrative purposes only and should not be used if in conflict with typical cross sections shown elsewhere in the plans.

TEXAS HIGHWAY DEPARTMENT

CONCRETE PAVEMENT DETAILS

CONTRACTION DESIGN

CPCD-71 (Rev.)

DN	DRAWING	DATE	REV	STATE	PROJECT NO.
CK DN	Original	Feb. 1963	6	TEXAS	0-0-05
DN					
CK DN					
TR					
CK TR					

4