

PLANS SYMBOLS

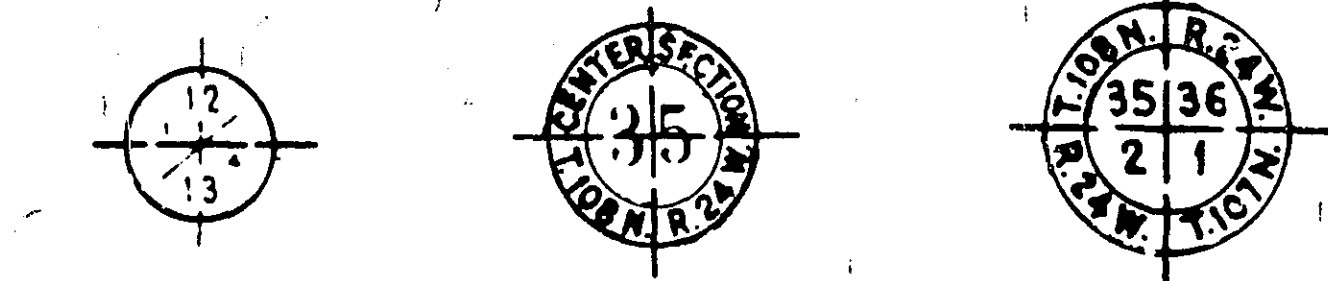
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DRAIN INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
P FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO. Located in
Dead Haul
PIT NO. Located in
Dead Haul

S.P. 62-625-06 WORK TO BE DONE WITHIN ROAD RIGHT OF WAY

C.P. 73-25 WORK TO BE DONE OUTSIDE ROAD RIGHT OF WAY

OFFICE OF COUNTY ENGINEER

RAMSEY COUNTY

T.O.P.I.C.S.

CSAH 25

COUNTY ROAD "B"

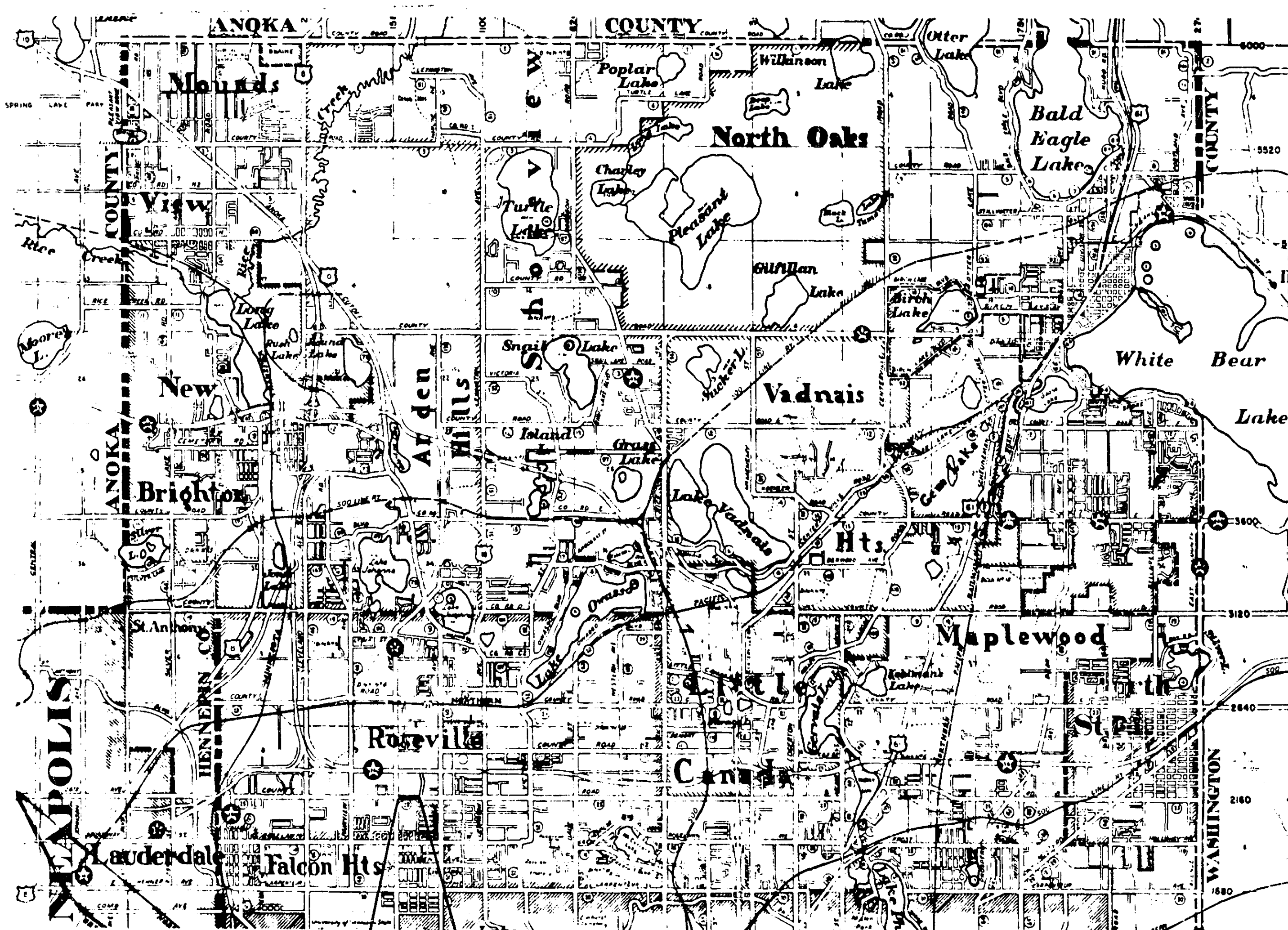
BETWEEN SNELLING AVE. AND ALBERT STREET

FROM: A POINT 132.11 FEET EAST OF TO: A POINT 1986.11 FEET EAST OF
THE NORTH WEST CORNER OF THE NORTH WEST CORNER OF
SECTION 15, T.29N., R.23W. SECTION 15, T.29N., R.23W.

CHANNELIZATION & CONCRETE PAVEMENT REPAIR

GROSS LENGTH 1854 FEET 0.351 MILES
BRIDGES-LENGTH 0 FEET 0 MILES
EXCEPTIONS-LENGTH 0 FEET 0 MILES
NET LENGTH 1854 FEET 0.351 MILES

PLAN, 1 Inch = 50 Feet
PROFILE, Horiz. 1 Inch = 50 Feet Vert. 1 Inch = 5 Feet
CROSS-SECTIONS, 1 Inch = 10 Feet
LAYOUT, 1 Inch = 5280 Feet



BEGIN PROJECT STA. 107+00
END PROJECT STA. 125+54

1970 ADT 11075
1990 ADT 30000
PROJ. H.C.A.D.T. LESS THAN 10 PER CENT
DESIGN SPEED 50 M.P.H.

THE "MINNESOTA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1972 SHALL GOVERN.

INDEX

SHEET NO. DESCRIPTION
1 TITLE SHEET
2 ESTIMATED QUANTITIES & DETAILS
3-5 PLAN SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA
REG. NO. 6334 DATE 7/14/72

RECOMMENDED FOR APPROVAL DATE 4/9/73
RECOMMENDED FOR APPROVAL DATE 3/12/73
RECOMMENDED FOR APPROVAL DATE 4/23/73
RECOMMENDED FOR APPROVAL DATE
RECOMMENDED FOR APPROVAL DATE
APPROVED DATE 3-27-73
APPROVED DATE 7-16-73
APPROVED DATE 7-18-73
APPROVED DATE 7-18-73

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL DATE 5-8-73
RECOMMENDED FOR APPROVAL DATE 4-6-73
APPROVAL DATE 5/18/73

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: JH
DATE: 1-25-1977

MICROFILMED
RAMSEY CO. ENG.

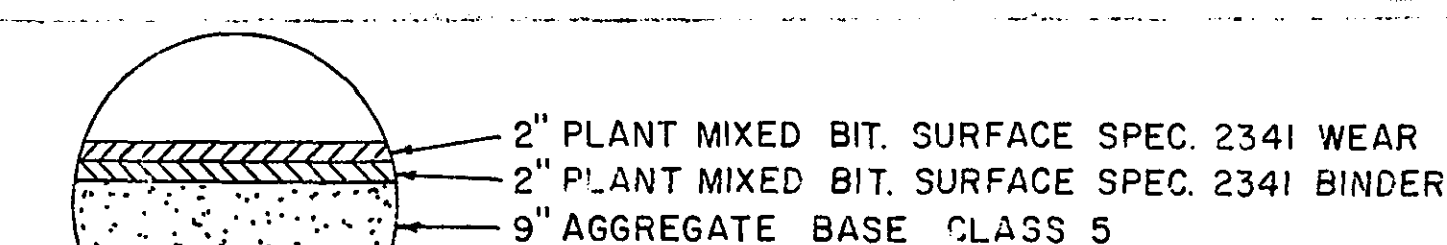
STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	S.A.P. 62-625-06	CO. PROJ. 73-25 NON-PARTICIPATING	TOTAL ESTIMATED COST	Actual Quantity
2104.501	REMOVE CONCRETE CURB	L.F.	790		790	776.7
2104.501	REMOVE INTEGRANT CURB	L.F.	412		412	412
2104.505	REMOVE CONCRETE PAVEMENT	S.Y.	1527		1527	1310.6
2104.509	REMOVE RING CASTINGS	EACH	3		3	3
2104.523	SALVAGE ORNAMENTAL STREET LIGHT	EACH		1	1	1
2104.523	SALVAGE HYDRANT	EACH		1	1	1
2105.501	COMMON EXCAVATION	C.Y.	234	1068	1302	1539.7
2211.501	AGGREGATE BASE, CLASS 5	TON	477	1020	1497	1374.2
2301.501	CONCRETE PAVEMENT	S.Y.	1310	524	1834	1900.3
2301.511	STRUCTURAL CONCRETE	C.Y.	288	115	403	422.6
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON		20	20	26.76
2341.508	WEARING COURSE MIXTURE	TON		178	178	256
2341.510	BINDER COURSE MIXTURE	TON		178	178	228
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.		41	41	25
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.		243	243	-
2506.516	CASTING ASSEMBLIES	EACH	3		3	3
2531.502	CONCRETE CURB, DESIGN B6-8	L.F.	480	282	762	717
2531.541	INTEGRANT CURB, DESIGN B6-M	L.F.	412		412	412
2531.503	CONCRETE MEDIAN, DESIGN A	S.Y.	694		694	794.9
2531.503	CONCRETE MEDIAN, DESIGN B	S.Y.	224		224	224
2531.503	CONCRETE MEDIAN, DESIGN C	S.Y.		129	129	191.4
2531.507	8" CONCRETE DRIVEWAY PAVEMENT	S.Y.	123	90	213	210.5
2535.501	BITUMINOUS CURB	L.F.		1008	1008	874.7
2554.501	TRAFFIC BARRIER, DESIGN SPECIAL A-M	L.F.		254	254	225
2575.551	TOPSOIL BORROW (L.V.)	C.Y.	25	8	33	60
2575.505	SODDING	S.Y.	297	94	391	160.5
504.679	ADJUST VALVE BOX	BOX	2		2	6
504.666	INSTALL HYDRANT	EACH		1	1	1

- ① ALL JOINTS AND REINFORCEMENT SHALL BE INCIDENTAL TO ITEM NO. 2301.501
- ② SUBGRADE EXCAVATION SHALL INCLUDE ALL EXCAVATION

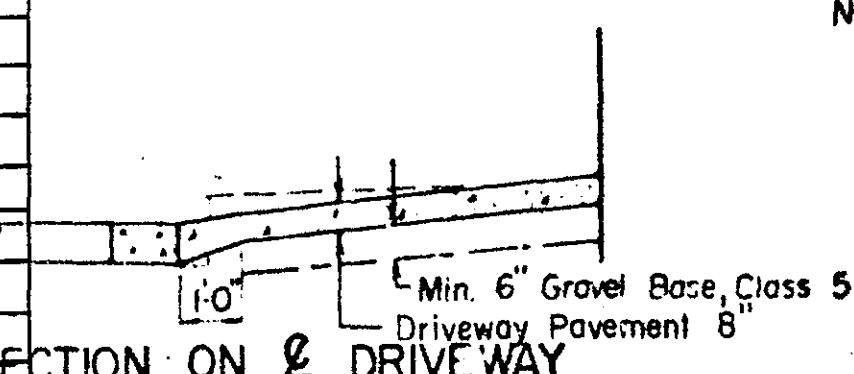
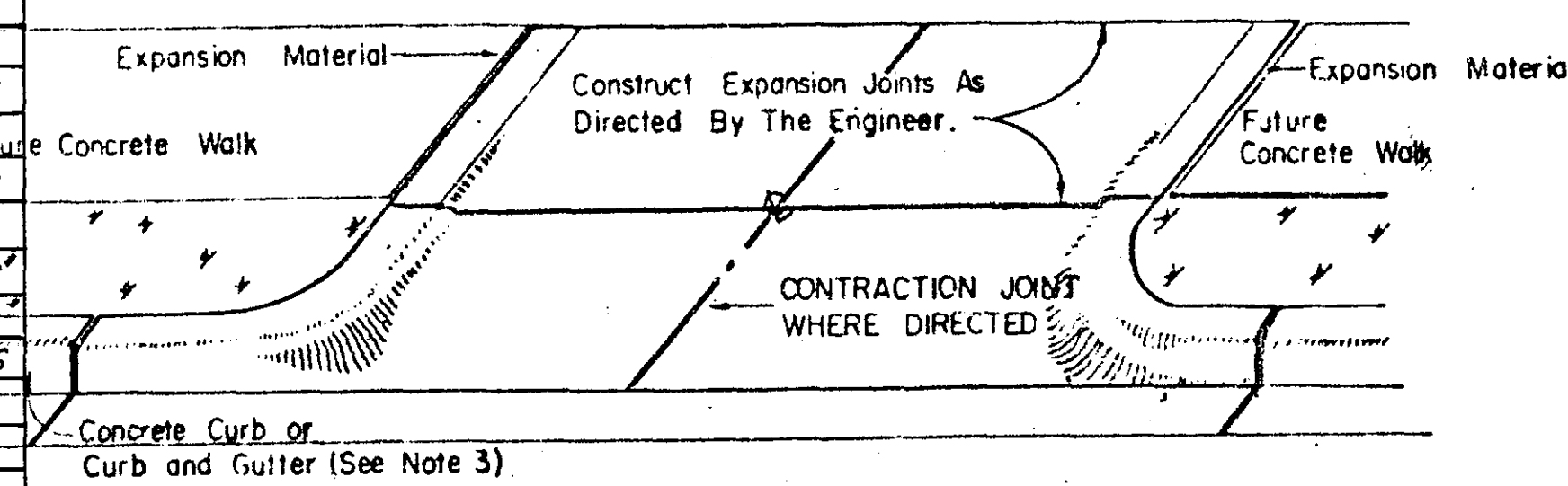
STANDARD DETAIL PLATES

0002A	SPECIFICATION REFERENCE TO STANDARD PLATES
1016D	CONCRETE PAVEMENTS NON-REINFORCED
1100 I	EXPANSION JOINTS
1120 M	CONTRACTION JOINTS
1140 L	LONGITUDINAL JOINTS
4102 C	MANHOLE OR CATCH BASIN RING CASTING
7020 F	CONCRETE CURBS
7065 C	BITUMINOUS CURBS
8000 D	STANDARD BARRICADES
8008 D	CONTRACTORS SIGN
8307 J	STRUCTURAL PLATE BEAM GUARDRAIL
1103 D TO 1108 G	DOWEL BAR ASSEMBLY



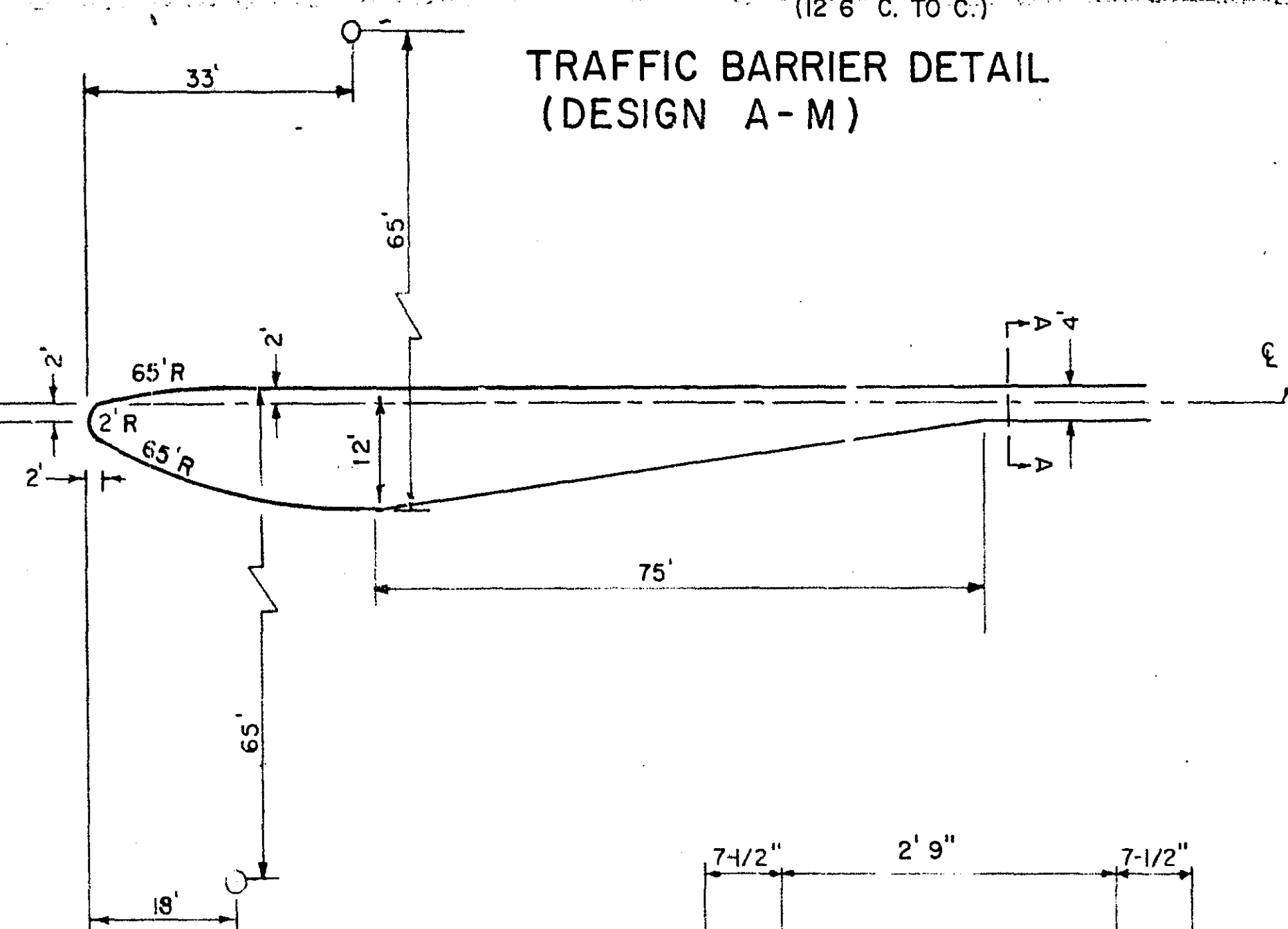
TARGET ENT. & STATE FARM RD.

CONCRETE DRIVEWAY

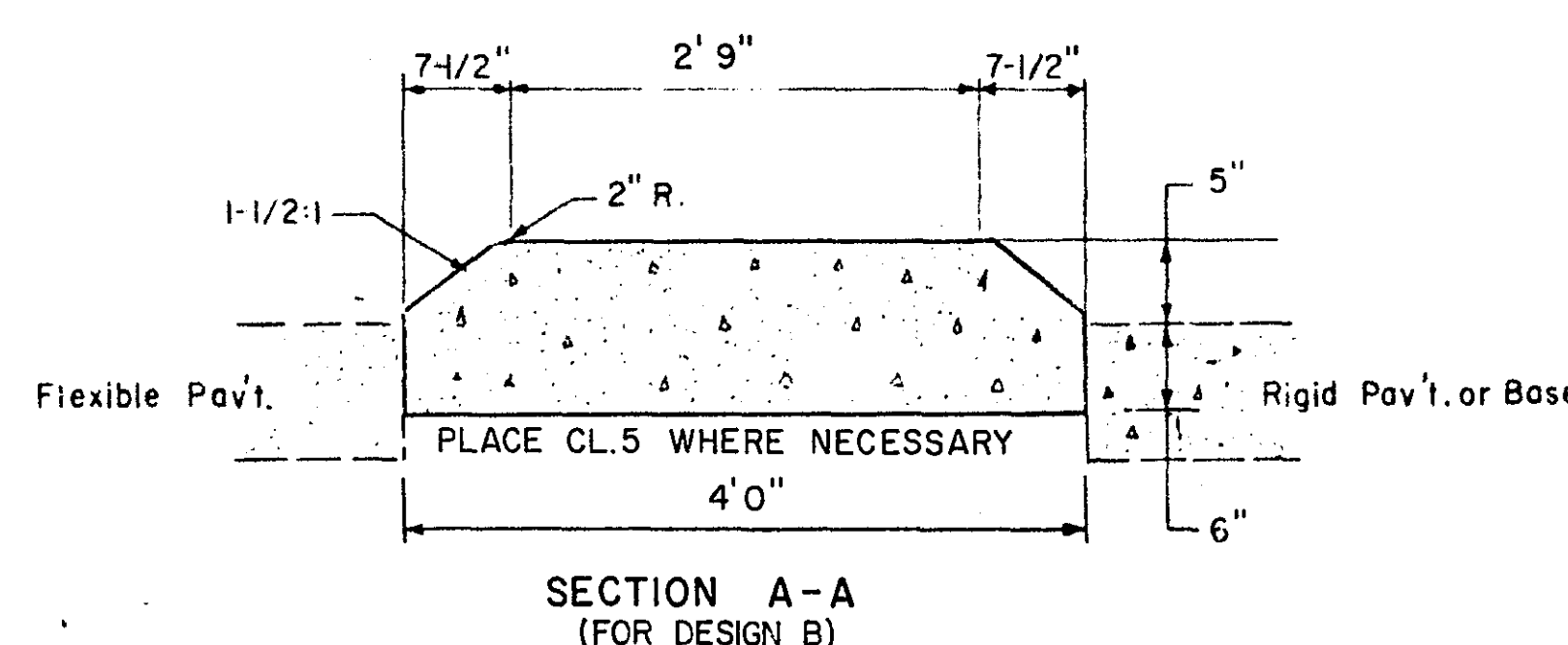


- NOTE: 1. CONTRACTION JOINT REQUIRED IF WIDTH EXCEEDS 16'
2. THE EXACT LOCATION AND WIDTH OF ENTRANCES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. GUTTER TO BE PAVED INTEGRAL WITH DRIVEWAY PAVEMENT WHERE CURB AND GUTTER IS USED.
5. DRIVEWAY WIDTH: RESIDENTIAL MIN 12', MAX 22', COMMERCIAL 30' ± 32' MAX., 60' ± 26' MAX.
6. RADIUS: RESIDENTIAL IS 5', COMMERCIAL IS MIN 5' - MAX 15' ALL TO BE VERIFIED BY THE ENGINEER

TRAFFIC BARRIER DETAIL (DESIGN A-M)



CONCRETE MEDIAN

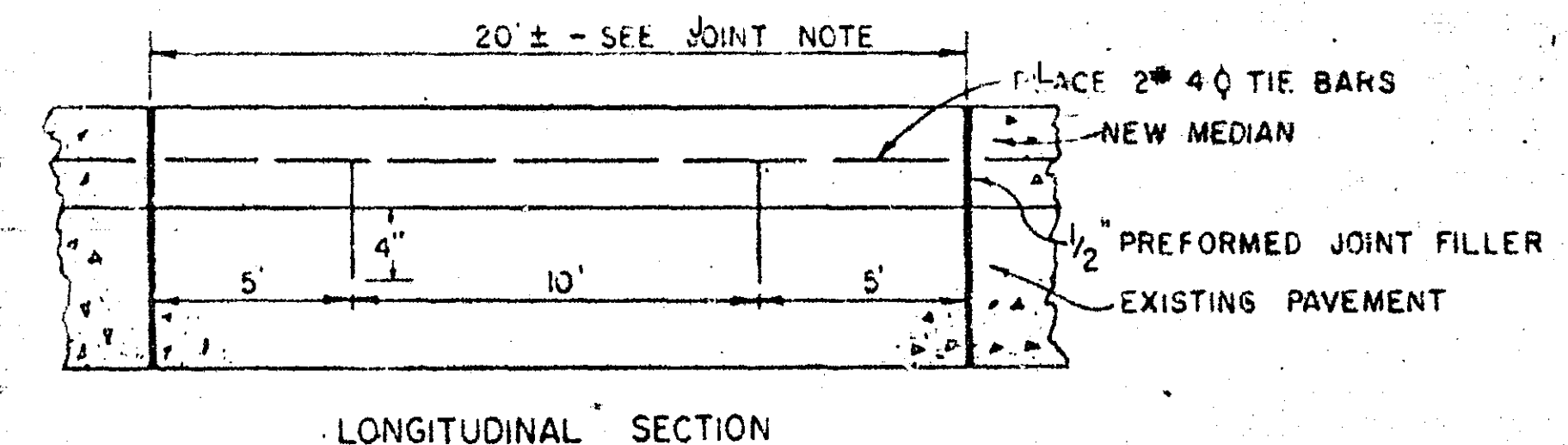
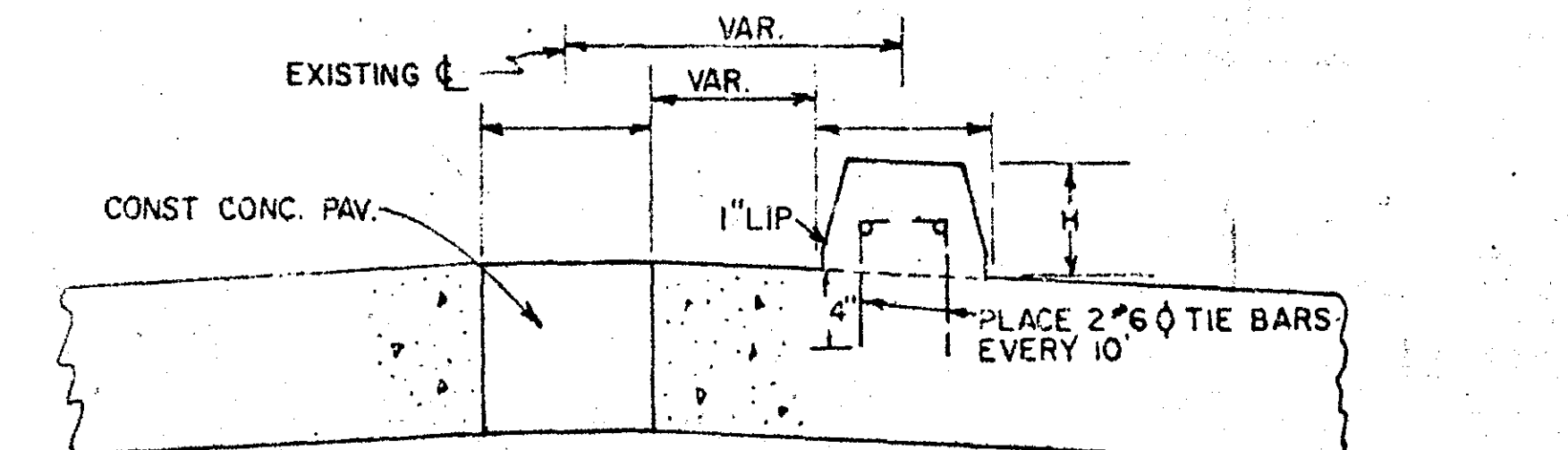


Drawn by R.E. Westlund

CONCRETE PAVEMENT
THE TRANSVERSE JOINTS SHALL ALIGN WITH LIKE JOINTS IN EXISTING PAVEMENT AS SHOWN IN STANDARD PLATE NO. 1120 M.
THE LONGITUDINAL JOINTS SHALL BE FORMED REMOVABLE INSERTS AS SHOWN IN STANDARD PLATE NO. 1140 L.
DOWEL BAR ASSEMBLIES SHALL BE, REPLACED WHERE THEY WERE EXISTING.

CONCRETE MEDIAN TIE BARS
DRILL 1" DIAMETER HOLES FOR TIE BARS. BACKFILL HOLES WITH GROUT CONSISTING OF 2 PARTS CEMENT SAND AND 1 PART PORTLAND CEMENT. PLACE TIE BARS INTO HOLES IMMEDIATELY AFTER GROUT IS PLACED. GRouting AND PLACING TIE BARS SHALL BE DONE IN CONJUNCTION WITH PLACEMENT OF CONCRETE FOR CONCRETE MEDIAN. SEE PLAN SHEETS FOR LOCATION OF MEDIANS.
THE HEIGHT OF THE MEDIAN SHALL BE AS SHOWN IN STANDARD PLATE 7105 C

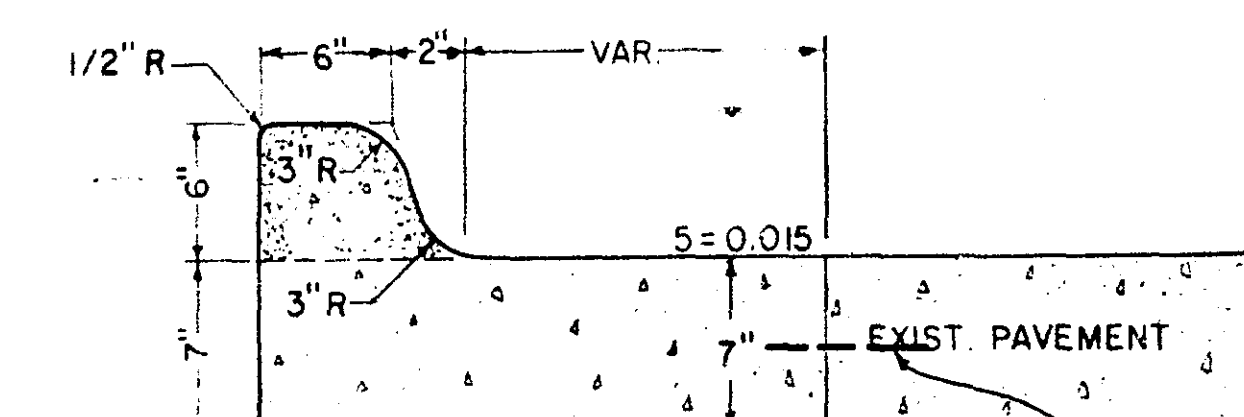
NOTE: ALL JOINTS, DOWEL BAR ASSEMBLIES, AND STEEL SHALL BE INCIDENTAL TO CONCRETE MEDIAN OR CONCRETE PAVEMENT.



CONCRETE MEDIAN DESIGN A

CONCRETE MEDIAN DESIGN B STANDARD PLATE NO. 7105C

CONCRETE MEDIAN DESIGN C STANDARD PLATE NO. 7105 C MODIFIED TO 2' WIDTH

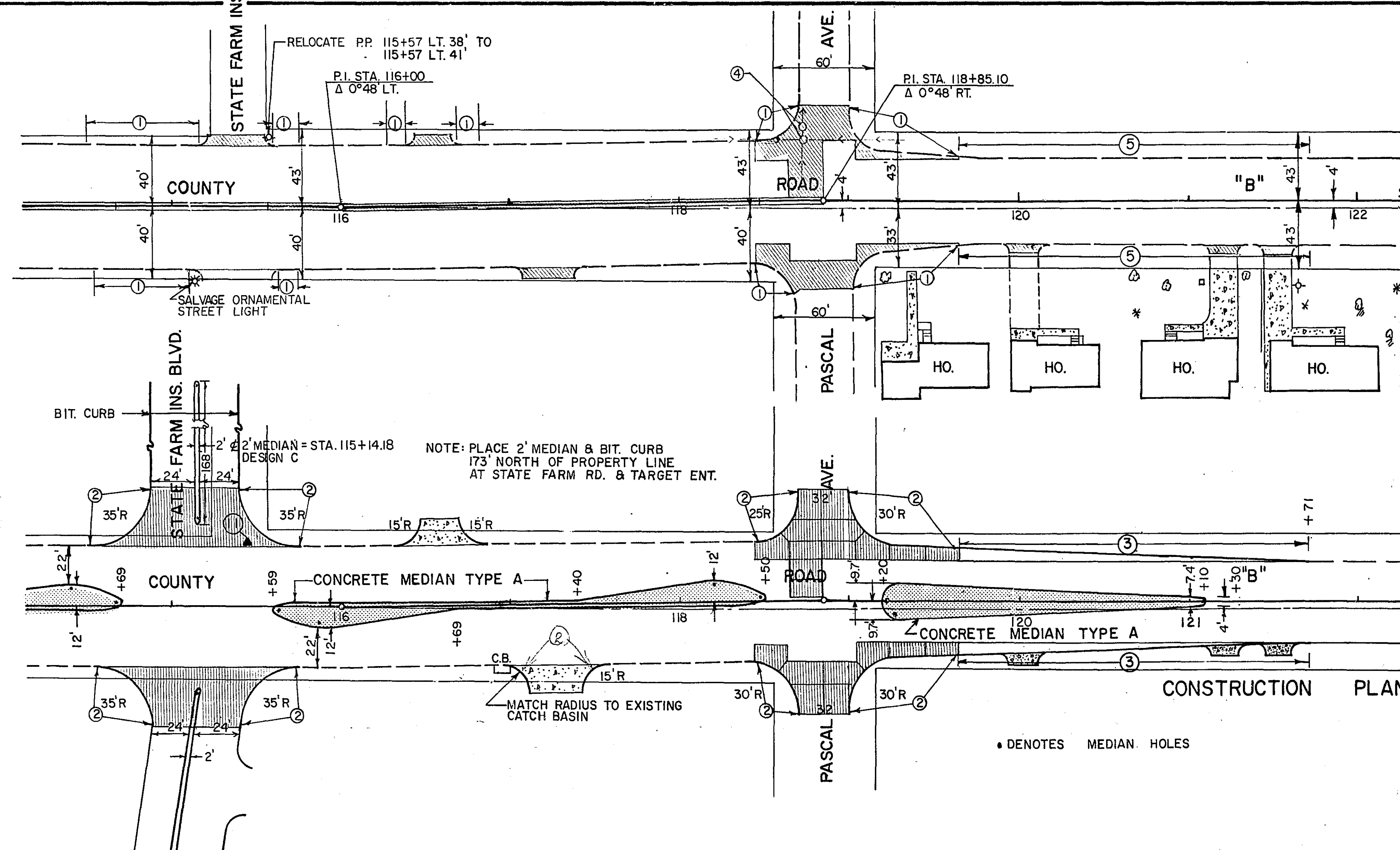
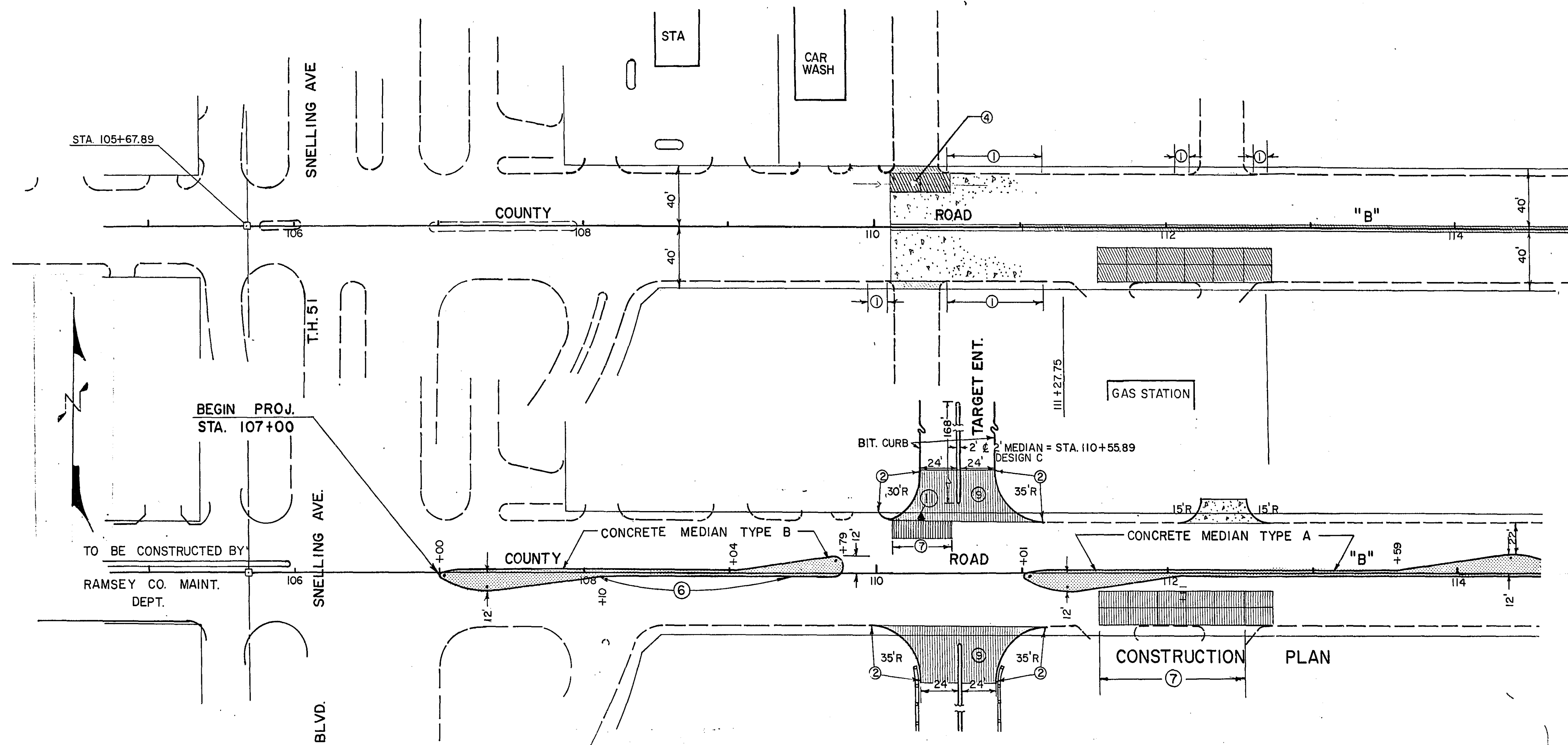


NO. 5 bars - 2'6" long, spaced at 2'6" centers
Drill & Grout Tie Bars 8" Min. Penetration Into Inplace Concrete Pavement. PLACEMENT AND BARS SHALL BE INCIDENTAL TO B6-M

CONCRETE CURB DESIGN B6-M

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *[Signature]*
DATE: 1-25-1977

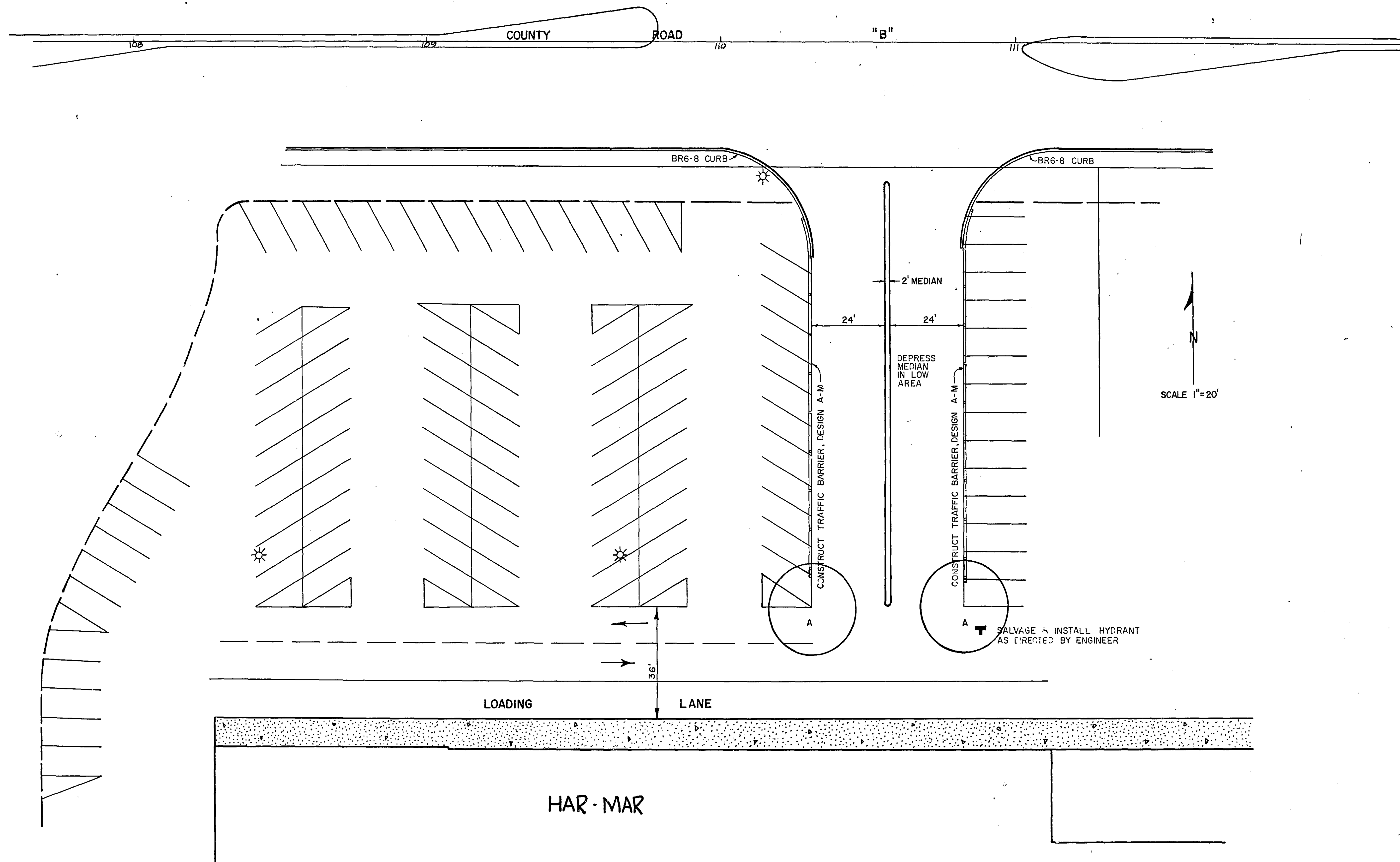
DRAWN BY R.E. WESTLUND



- RELOCATE R.P. 115+57 LT. 38' TO 115+57 LT. 41'
- P.I. STA. 116+00 Δ 0°48' LT.
- P.I. STA. 118+85.10 Δ 0°48' RT.
- STATE FARM INS. BLVD.
- ALBERT ST.
- END PROJECT STA. 125+54
- CONSTRUCT
- REMOVE CONCRETE PAVEMENT
- 8" NON-REINFORCED CONCRETE PAVEMENT (H.E.S.)
- CONCRETE DRIVEWAY PAVEMENT (H.E.S.)
- CONCRETE MEDIAN
- 1 REMOVE CONCRETE CURB
- 2 CONSTRUCT CONCRETE CURB, DESIGN BR6-8
- 3 CONSTRUCT CONCRETE CURB, DESIGN B6M (SEE DETAIL, SHEET NO. 2)
- 4 REPLACE M.H. CASTINGS WITH M.H.D. GRATE NO. 770 FLANGE NO. 771 USE OLD COVER
- 5 REMOVE INTEGRANT CURB BY SAW CUTTING PAVEMENT AS DIRECTED BY ENGINEER.
- 6 EXISTING SURFACE SHALL BE SAW CUT PRIOR TO REMOVAL OF BIT. PAVEMENT THIS WORK SHALL BE INCIDENTAL TO ITEM NO. 2531.503, CONCRETE MEDIAN TYPE B.
- 7 DOWEL BAR ASSEMBLIES ARE REQUIRED IN CONTRACTION JOINTS, PAYMENT SHALL BE INCIDENTAL TO CONCRETE PAVEMENT.
- 8 WHERE CONCRETE PAVEMENT IS TO BE REPLACED, ANY ADDITION BASE MATERIAL SHALL BE CLASS 5
- 9 MATCH JOINTS TO CONCRETE PAVEMENT JOINTS AS DIRECT BY ENGINEER.
- 10 COMMON EXCAVATION FIGURED, 315 C.Y. FOR TARGET DR., 530 C.Y. FOR STATE FARM INS. BLVD., AND 457 C.Y. FOR WIDENING AND ENTRANCES.
- 11 ADJUST VALVE BOXES.
- 12 SOD AND TOPSOIL AS DIRECTED BY ENGINEER IN DISTURBED AREAS.

NOTE: SIGNALS WILL BE INSTALLED AT COUNTY RD "B" & STATE FARM INS. BLVD. UNDER A SEPERATE CONTRACT.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *He*
DATE: 1-25-1977



RECHECKED PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *JK*
 DATE: 1-25-1977

(A) GUARDRAIL REVISED 10/10/73 K.E.W.

COUNTY ROAD "B"

P.I. STA. 116+00
Δ 0° 48' LT.

TOTAL PARKING 61

DEPRESS CURB & MEDIAN
IN LOW AREA

PENNYS
AUTO

PENNYS

SCALE 1"=20'

MICROFILMED
RAMSEY CO. ENGR.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *[Signature]*
DATE: 12-25-1977