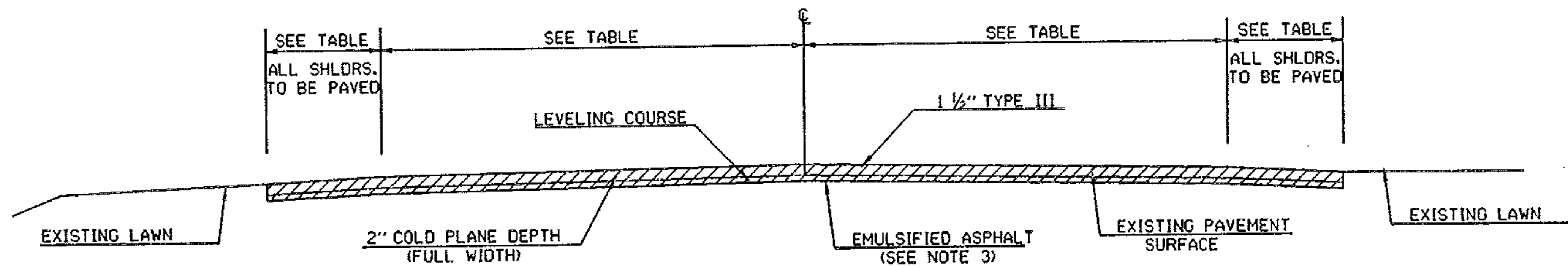


COLD PLANED TYPICAL SECTION - CURBED
STA 0+00 TO 5+85



COLD PLANED TYPICAL SECTION - WITHOUT CURB
STA 5+85 TO 27+46

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE III, ITEM 406.27.
2. THE LEVELING COURSE SHALL BE TYPE III OR TYPE IV, ITEM 406.27 AS DIRECTED BY THE ENGINEER.
3. EMULSIFIED ASPHALT, TO BE APPLIED ON EXISTING PAVEMENT, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED AREAS AT THE RATE OF 0.015 GAL./SQ. YD. OR AS DIRECTED BY THE ENGINEER.
4. BITUMINOUS CONCRETE PAVEMENT TOLERANCE = $\pm \frac{1}{4}$ " (FOR THICKNESS EXCLUDING LEVELING)
5. COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE BEGIN/END OF THE PROJECT AND AT ALL SIDE ROADS. SEE LAYOUT SHEETS FOR LOCATIONS.
6. ITEM 604.40, 604.412, 604.415, & 604.418 ARE ESTIMATED QUANTITIES AND SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER.

URBAN AREA - SEED MIXTURE

% WT.	LBS./ACRE	NAME	PUR%	GERM%
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYEGRASS	95	85
100.0	80.0			

SEED MIXTURE:
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED:
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER:
FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH:
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL:
TO BE USED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS:
TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

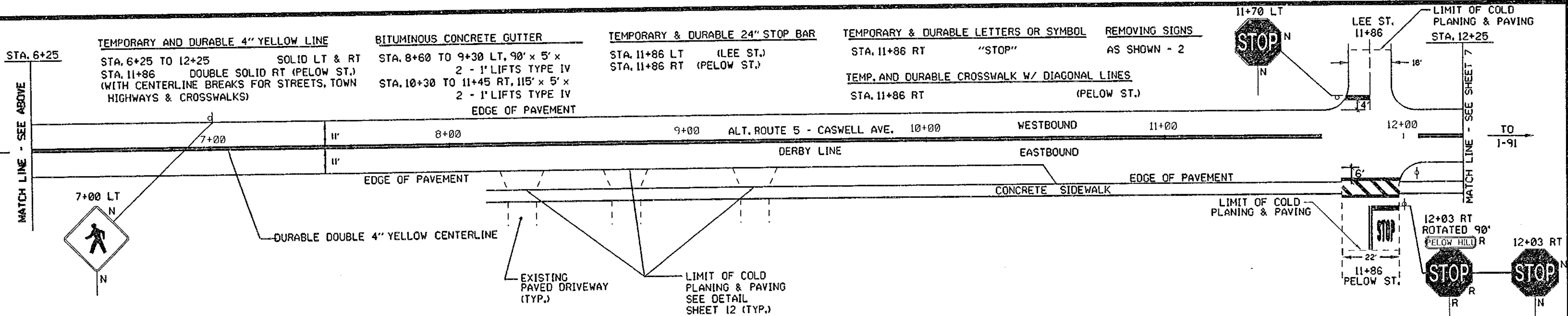
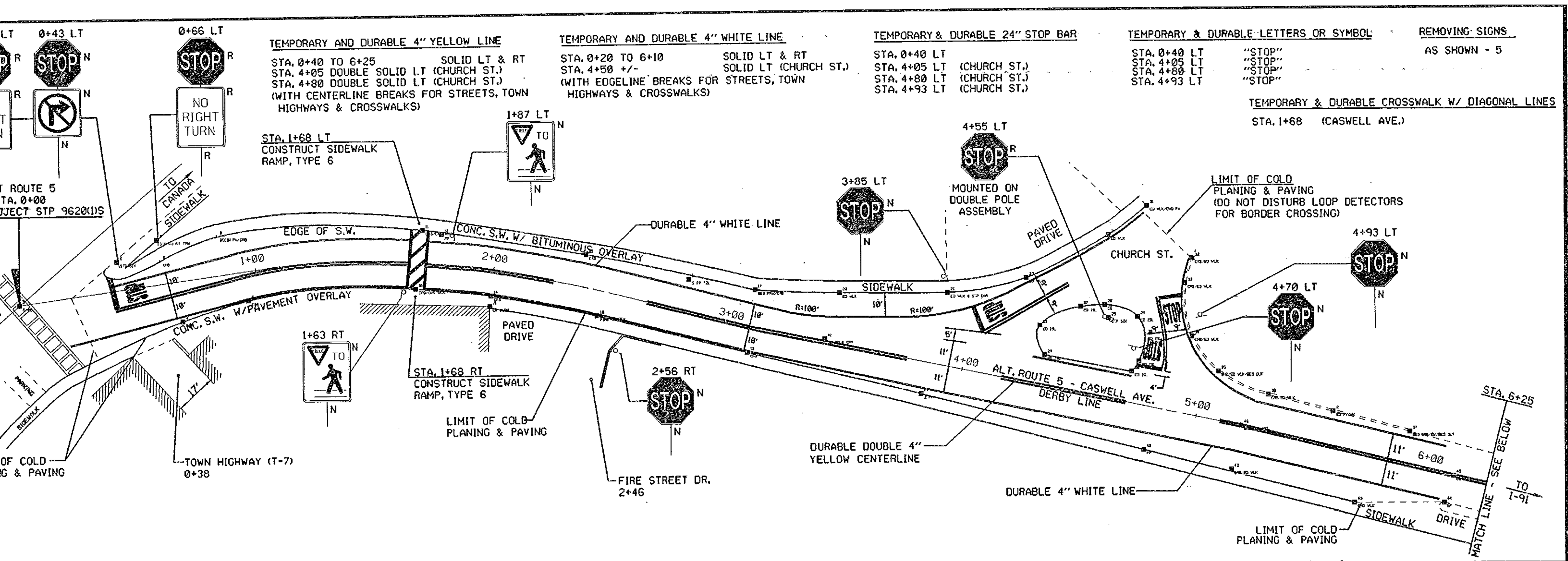
NEW POSTS WILL BE A DELINEATOR POST WITHOUT THE REFLECTOR UNIT.

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING TONS/MILE	NOTES
DERBY - ALT ROUTE 5	0+00	5+85	VARIABLES - SEE LAYOUT SHEETS	1 1/2"	591	
DERBY - ALT ROUTE 5	5+85	22+00	0-11-11-0	1 1/2"	500	PAVE DRIVEWAYS TO THE EDGE OF SIDEWALK (SEE LAYOUT SHEETS)
DERBY - ALT ROUTE 5	22+00	27+46	VARIABLES - SEE LAYOUT SHEETS	1 1/2"	820	

revised lsw 06/26/96

PROJECT TYPICAL SHEET	DESIGNED BY	BCE/HJM	DATE	1-96
	DRAWN BY	C.E.A., INC.	DATE	1-96
	DESIGN FILE NO.	/pave/95c054/pc054.dgn		
	IPATH FILE	pc054ty.i	DATE PLOTTED	26-JUN-1996
	PROJ. NAME	DERBY LINE		
PROJ. NO.	STP 9620(1)S			
SHEET 2 OF 12 SHEETS				



TEMPORARY AND DURABLE 4" YELLOW LINE STA. 0+40 TO 6+25 SOLID LT & RT STA. 4+05 DOUBLE SOLID LT (CHURCH ST.) STA. 4+80 DOUBLE SOLID LT (CHURCH ST.) (WITH CENTERLINE BREAKS FOR STREETS, TOWN HIGHWAYS & CROSSWALKS)	TEMPORARY AND DURABLE 4" WHITE LINE STA. 0+20 TO 6+10 SOLID LT & RT SOLID LT (CHURCH ST.) (WITH EDGE LINE BREAKS FOR STREETS, TOWN HIGHWAYS & CROSSWALKS)	TEMPORARY & DURABLE 24" STOP BAR STA. 0+40 LT STA. 4+05 LT (CHURCH ST.) STA. 4+80 LT (CHURCH ST.) STA. 4+93 LT (CHURCH ST.)	TEMPORARY & DURABLE LETTERS OR SYMBOL STA. 0+40 LT "STOP" STA. 4+05 LT "STOP" STA. 4+80 LT "STOP" STA. 4+93 LT "STOP"	REMOVING SIGNS AS SHOWN - 5
---	--	--	--	---------------------------------------

TEMPORARY AND DURABLE 4" YELLOW LINE STA. 6+25 TO 12+25 SOLID LT & RT STA. 11+86 DOUBLE SOLID RT (PELOW ST.) (WITH CENTERLINE BREAKS FOR STREETS, TOWN HIGHWAYS & CROSSWALKS)	BITUMINOUS CONCRETE GUTTER STA. 8+60 TO 9+30 LT, 90' x 5' x 2 - 1" LIFTS TYPE IV STA. 10+30 TO 11+45 RT, 115' x 5' x 2 - 1" LIFTS TYPE IV	TEMPORARY & DURABLE 24" STOP BAR STA. 11+86 LT (LEE ST.) STA. 11+86 RT (PELOW ST.)	TEMPORARY & DURABLE LETTERS OR SYMBOL STA. 11+86 RT "STOP"	REMOVING SIGNS AS SHOWN - 2
--	--	---	--	---------------------------------------

LEGEND

N = NEW
R = REMOVE
R&S = REMOVE & SALVAGE
S = SALVAGE SIGN
RET = RETAIN

NOTES:

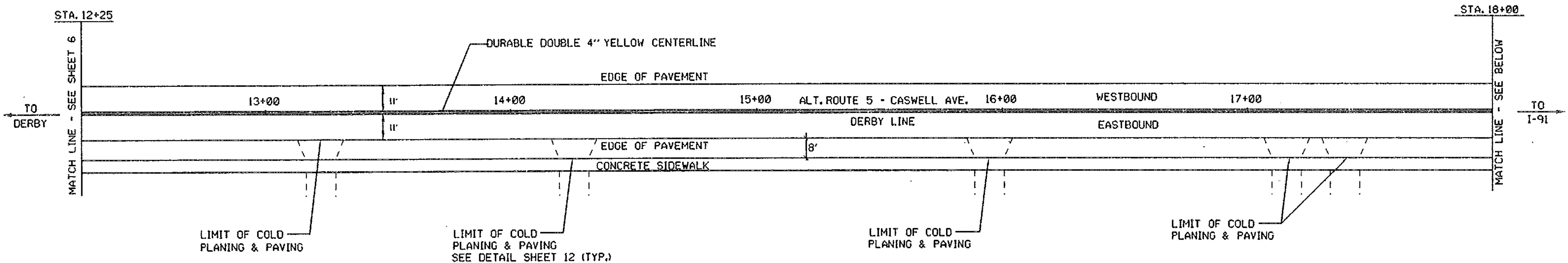
- ALL STATIONING IS REFERENCED TO SIDE STREET INTERSECTION MILE MARKERS AS SHOWN ON THE VAOT ROUTE LOGS.
- EXISTING STREET NAME SIGNS MOUNTED WITH EXISTING STOP SIGNS SHALL BE REMOVED & RETURNED TO THE TOWN.

PAVING PROJECT LAYOUT

DESIGNED BY	BCE/HJM	DATE	1-96
DRAWN BY	C.E.A., INC.	DATE	1-96
DESIGN FILE NO.	/pave/95c054/pc054.i		
PRF FILE	pc05411.i	DATE PLOTTED	3-APR-1996
PROJ. NAME	DERBY LINE		
PROJ. NO.	STP 9620(1)S		
SHEET 6 OF 12 SHEETS			

Sheet Number: 6

TEMPORARY AND DURABLE 4" YELLOW LINE
 STA. 12+25 TO 18+00 SOLID LT & RT



TEMPORARY AND DURABLE 4" YELLOW LINE
 STA. 18+00 TO 24+00 SOLID LT & RT
 STA. 18+72 DOUBLE SOLID RT (HIGHLAND AVE.)
 STA. 23+67 DOUBLE SOLID RT (MAPLE ST.)
 (WITH CENTERLINE BREAKS FOR STREETS,
 TOWN HIGHWAYS & CROSSWALKS)

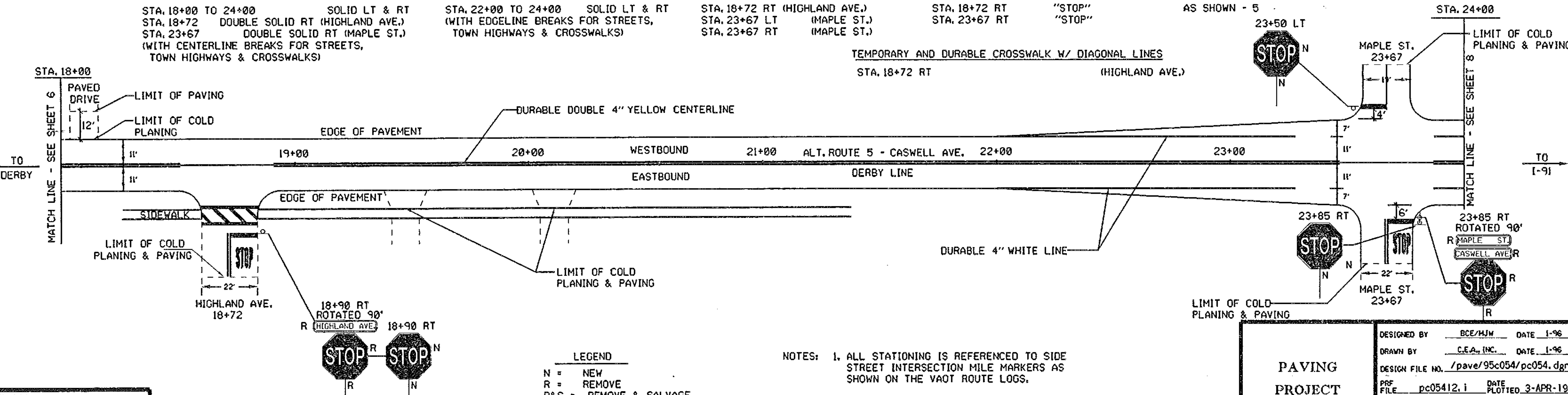
TEMPORARY AND DURABLE 4" WHITE LINE
 STA. 22+00 TO 24+00 SOLID LT & RT
 (WITH EDGELINE BREAKS FOR STREETS,
 TOWN HIGHWAYS & CROSSWALKS)

TEMPORARY & DURABLE 24" STOP BAR
 STA. 18+72 RT (HIGHLAND AVE.)
 STA. 23+67 LT (MAPLE ST.)
 STA. 23+67 RT (MAPLE ST.)

TEMPORARY & DURABLE LETTERS OR SYMBOL
 STA. 18+72 RT "STOP"
 STA. 23+67 RT "STOP"

REMOVING SIGNS
 AS SHOWN - 5

TEMPORARY AND DURABLE CROSSWALK W/ DIAGONAL LINES
 STA. 18+72 RT (HIGHLAND AVE.)



LEGEND
 N = NEW
 R = REMOVE
 R&S = REMOVE & SALVAGE
 S = SALVAGE SIGN
 RET = RETAIN

NOTES: 1. ALL STATIONING IS REFERENCED TO SIDE STREET INTERSECTION MILE MARKERS AS SHOWN ON THE VAOT ROUTE LOGS.
 2. EXISTING STREET NAME SIGNS MOUNTED WITH EXISTING STOP SIGNS SHALL BE REMOVED AND RETURNED TO THE TOWN.

PAVING
 PROJECT
 LAYOUT

DESIGNED BY BCE/MJW DATE 1-96
 DRAWN BY C.E.A., INC. DATE 1-96
 DESIGN FILE NO. /pave/95c054/pc054.dgn
 PRF FILE pc05412.i DATE PLOTTED 3-APR-1996
 PROJ. NAME DERBY LINE
 PROJ. NO. STP 9620(1)S
 SHEET 7 OF 12 SHEETS

DATUM
 VERTICAL N/A
 HORIZONTAL N/A

TEMPORARY AND DURABLE 4" YELLOW LINE

STA. 24+00 TO 27+46 SOLID LT & RT
 STA. 24+68 DOUBLE SOLID RT (RAMP B)
 (WITH EDGE LINE BREAKS FOR STREETS,
 TOWN HIGHWAYS & CROSSWALKS)

TEMPORARY AND DURABLE 4" WHITE LINE

STA. 24+00 TO 27+46 SOLID LT & RT
 STA. 24+68 SOLID RT (RAMP B)
 (WITH EDGE LINE BREAKS FOR STREETS,
 TOWN HIGHWAYS & CROSSWALKS)

TEMPORARY & DURABLE 24" STOP BAR

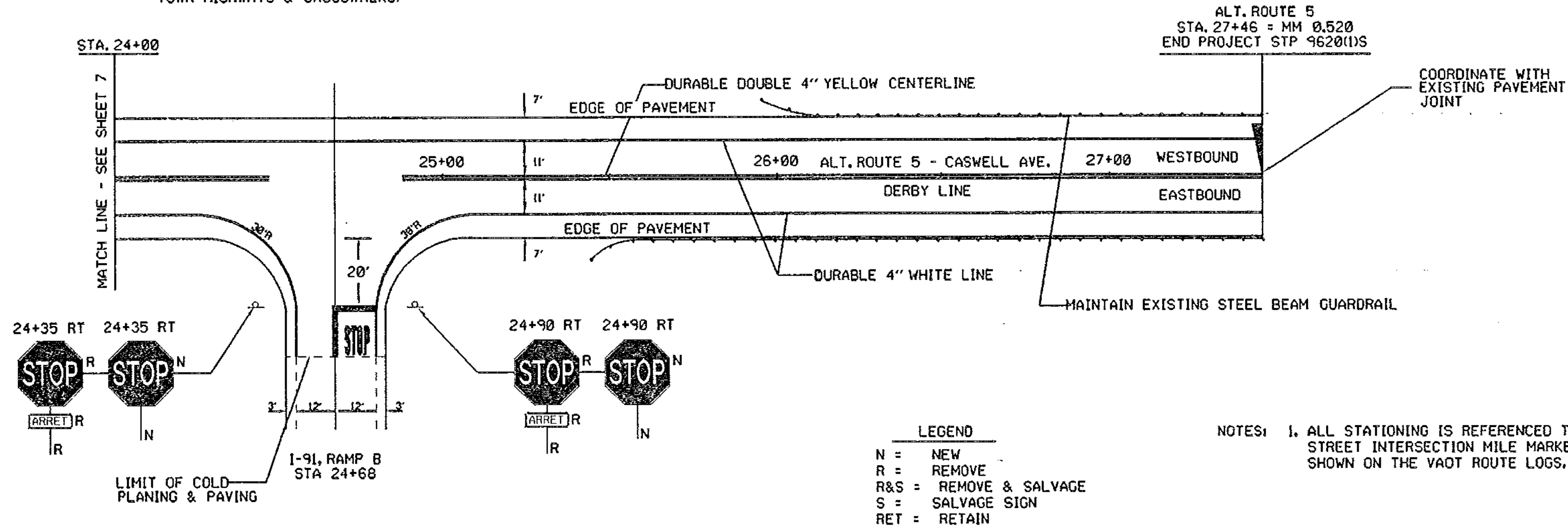
STA. 24+68 RT (RAMP B)

TEMPORARY & DURABLE LETTERS OR SYMBOL

STA. 24+68 RT "STOP"

REMOVING SIGNS

AS SHOWN - 4

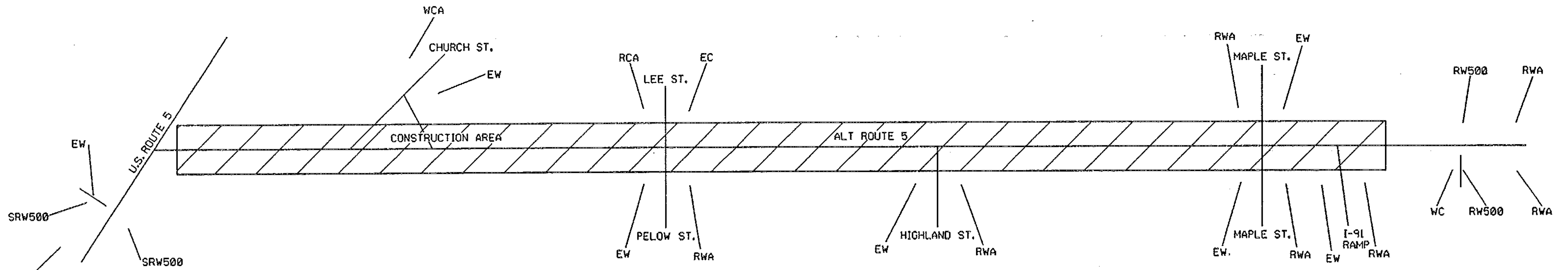


LEGEND
 N = NEW
 R = REMOVE
 R&S = REMOVE & SALVAGE
 S = SALVAGE SIGN
 RET = RETAIN

NOTES: 1. ALL STATIONING IS REFERENCED TO SIDE STREET INTERSECTION MILE MARKERS AS SHOWN ON THE VAOT ROUTE LOGS.

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

PAVING PROJECT LAYOUT	DESIGNED BY	BCE/HJW	DATE	1-96
	DRAWN BY	C.E.A., INC.	DATE	1-96
	DESIGN FILE NO.	/pave/95c054/pc054.dgn		
	PRF FILE	pc05413.1	DATE PLOTTED	3-APR-1996
	PROJ. NAME	DERBY LINE		
	PROJ. NO.	STP 9620(1)S		
SHEET 8 OF 12 SHEETS				



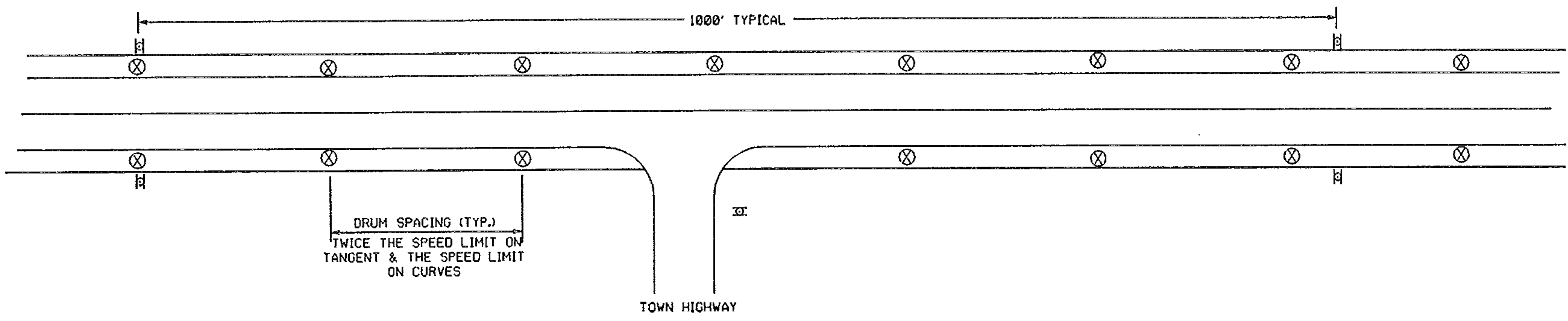
LEGEND
 RWA = ROAD WORK AHEAD
 RW500 = ROAD WORK 500'
 EW = END WORK
 RWN = ROAD WORK NEXT
 SRWA = SIDE ROAD WORK AHEAD
 SRW500 = SIDE ROAD WORK 500'

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100 FOR SIGN PLACEMENT

NOTES:

1. "HIGH SHOULDER" WARNING SIGNS SHALL BE PLACED EVERY 1000 FT. WITHIN THE WORK ZONES THAT ARE TO BE COLD PLANED.
2. "HIGH SHOULDER" WARNING SIGNS SHALL BE GATEPOSTED
3. SIDE ROADS WITHIN COLD PLANED AREAS SHALL BE SIGNED



TRAFFIC CONTROL DETAIL FOR COLD PLANED AREAS

LEGEND
 X REFLECTORIZED PLASTIC DRUM
 SEE STD E-106
 H "HIGH SHOULDER" WARNING SIGN
 SEE STD E-101

CONSTRUCTION APPROACH SIGNING & TRAFFIC CONTROL DETAIL FOR COLD PLANED AREAS	DESIGNED BY	BCE/M/JW	DATE	1-96
	DRAWN BY	C.E.A., INC.	DATE	1-96
	DESIGN FILE NO.	/pave/95c054/pc054.dgn		
	PRF FILE	pc054cs.1	DATE PLOTTED	3-APR-1996
	PROJ. NAME	DERBY LINE		
PROJ. NO.	STP 9620(1)S			
SHEET	10	OF	12	SHEETS

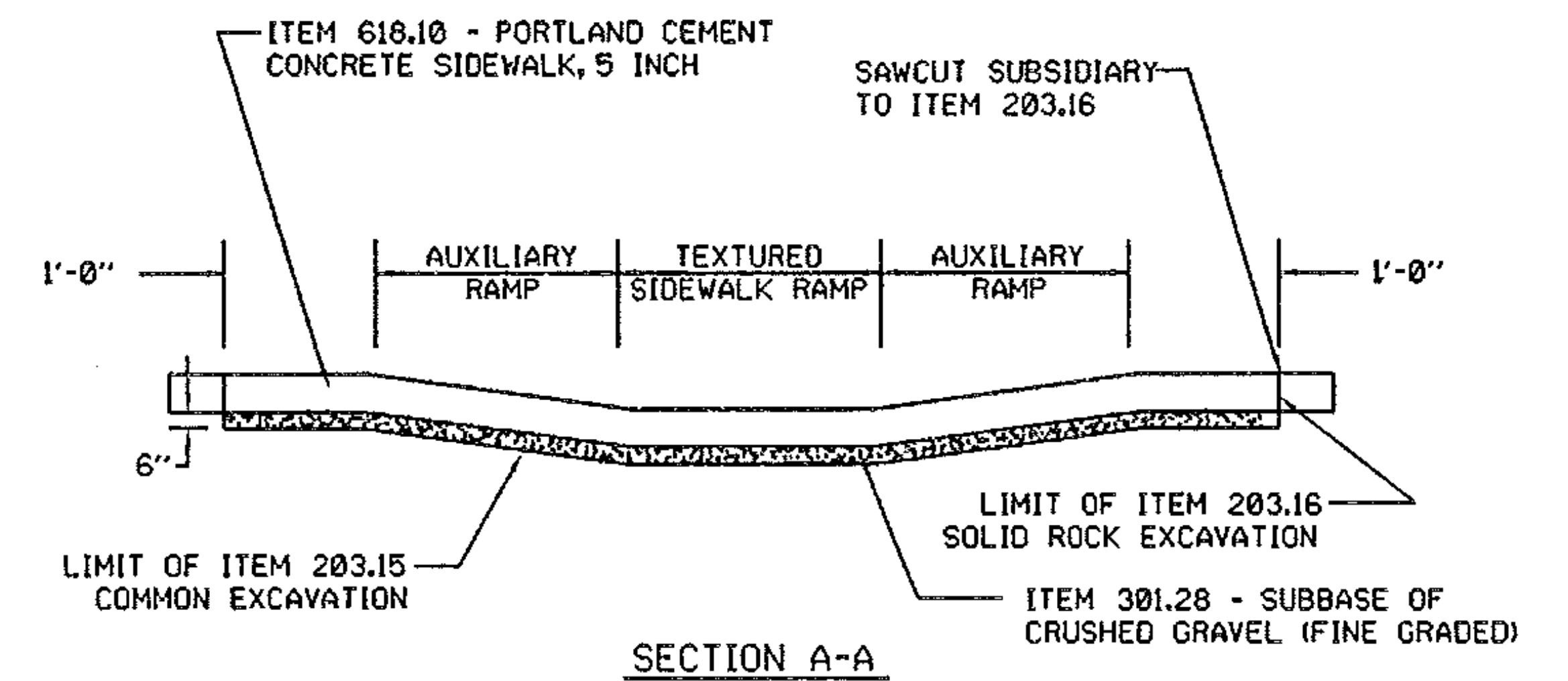
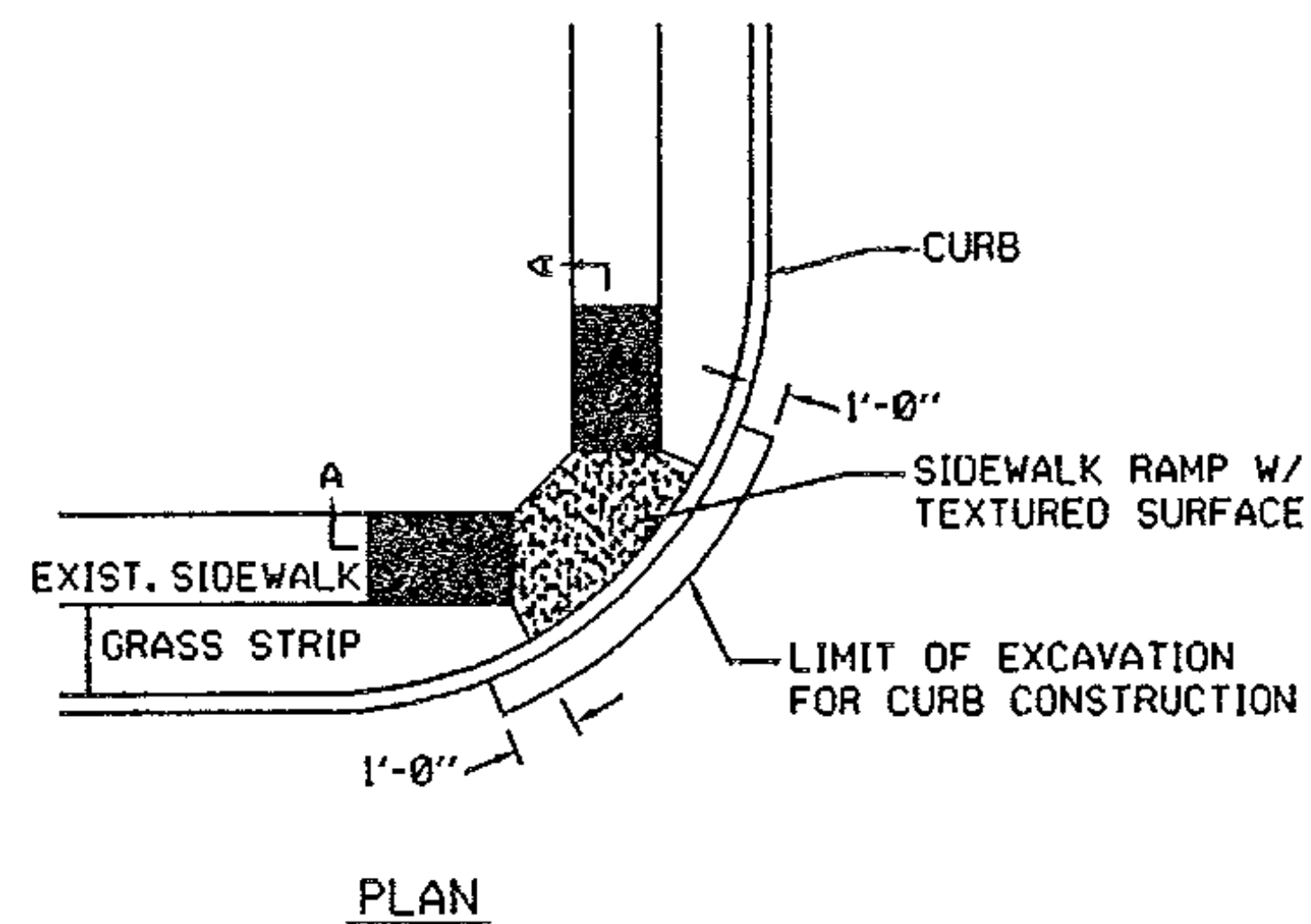
DATE
 VERTICAL N/A
 HORIZONTAL N/A

UTILITY LOCATIONS
(FOR INFORMATIONAL PURPOSES ONLY)

STATION	POSITION	DESCRIPTION
0+24	RT	SMH
1+85	LT	SMH
3+48	RT	MH
3+52	LT	CS
3+55	LT	SMH
3+70	RT	SMH
9+60	LT	SMH
23+50	LT	WV
23+50	RT	SMH

WV = WATER VALVE BOX
CS = WATER CURB STOP
SMH = SEWER MANHOLE

NOTE: THE UTILITY LOCATIONS AND DESCRIPTIONS SHOWN ABOVE ARE APPROXIMATE AND ARE BASED ON INFORMATION OBTAINED FROM FIELD REVIEWS AND/OR RECORD UTILITY PLANS AS SUPPLIED BY THE MUNICIPALITY. REFER TO THE SPECIAL PROVISIONS FOR CONTACT PERSONS OF PRIVATE UTILITY COMPANIES.

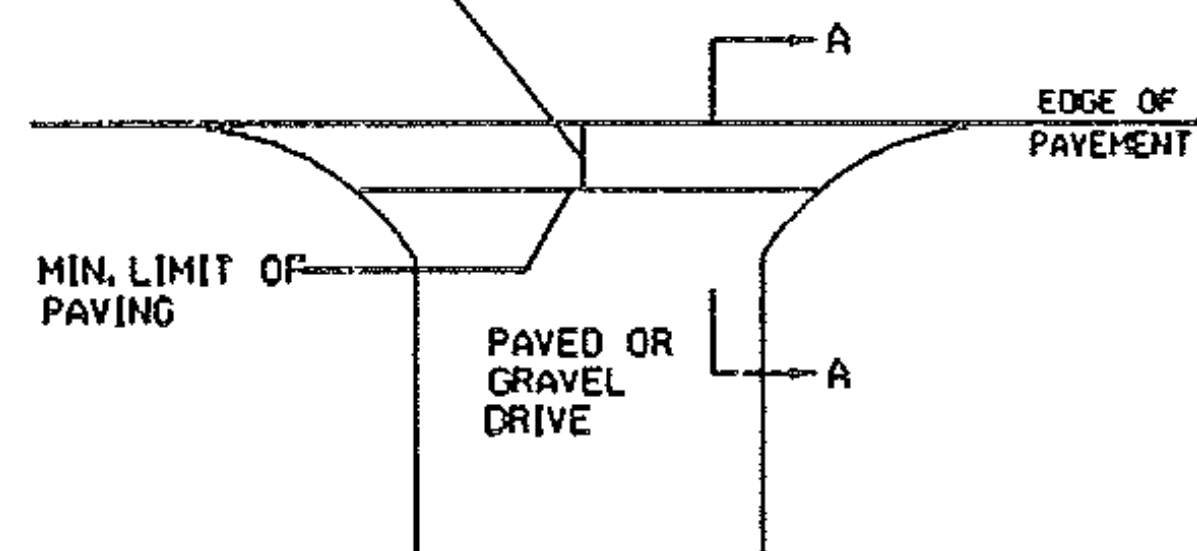


NOTE: THIS DETAIL IS FOR PAY LIMITS ONLY. FOR INDIVIDUAL RAMP CONFIGURATIONS, SLOPES DIMENSIONS, ETC., SEE VAOT STANDARD C-3.

SIDEWALK RAMP PAY LIMIT DETAIL

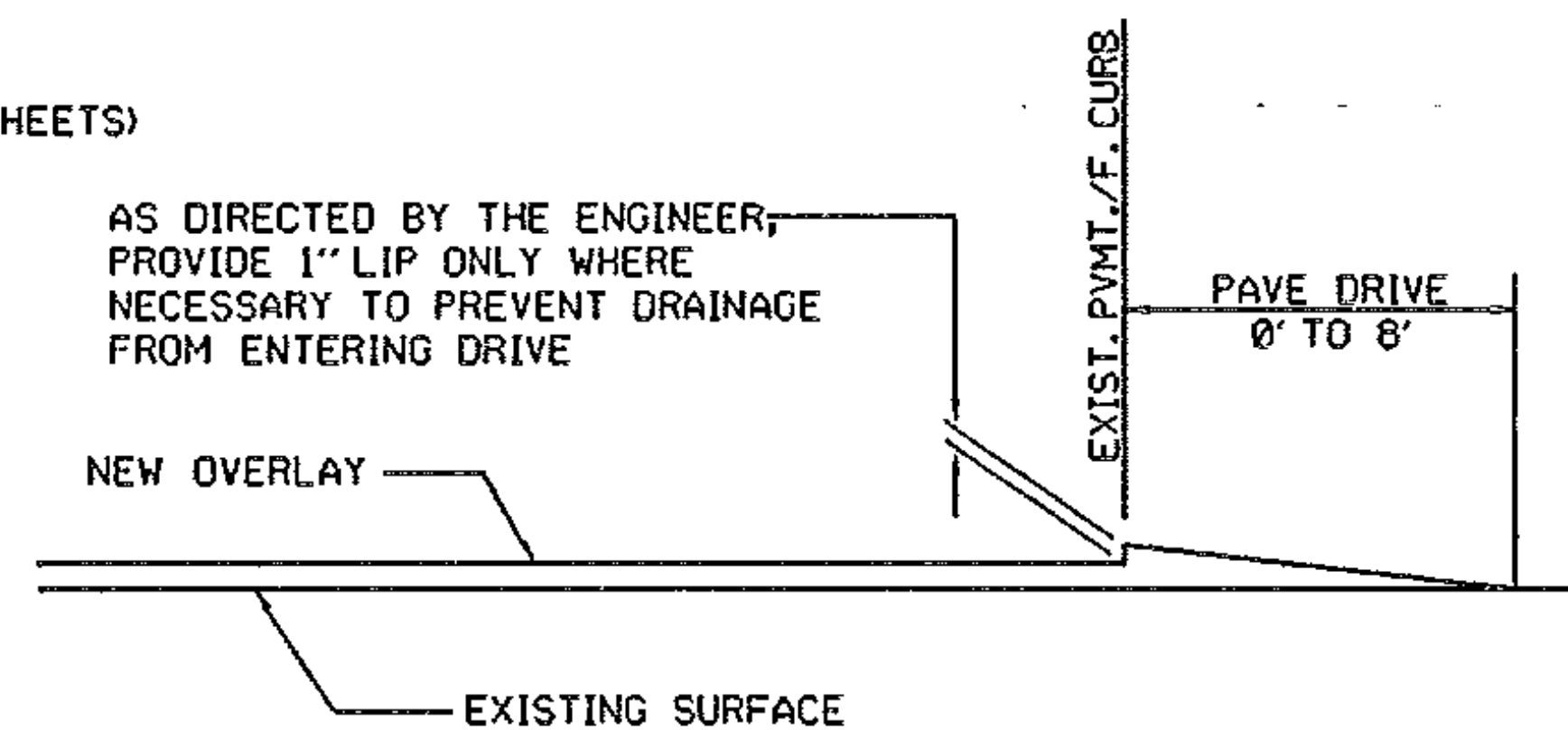
UTILITY & SIDEWALK DETAILS	
DESIGNED BY	BCE/MJW DATE 1-96
DRAWN BY	C.E.A., INC. DATE 1-96
DESIGN FILE NO.	/pave/95c054/pc054.dgn
PRF FILE	pc054d2.i DATE PLOTTED 3-APR-1996
PROJ. NAME	DERBY LINE
PROJ. NO.	STP 962011JS
SHEET 11 OF 12 SHEETS	

ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 210.10. IF REQUIRED, A NEW DRIVEWAY SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.28. A NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 406.25. ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.

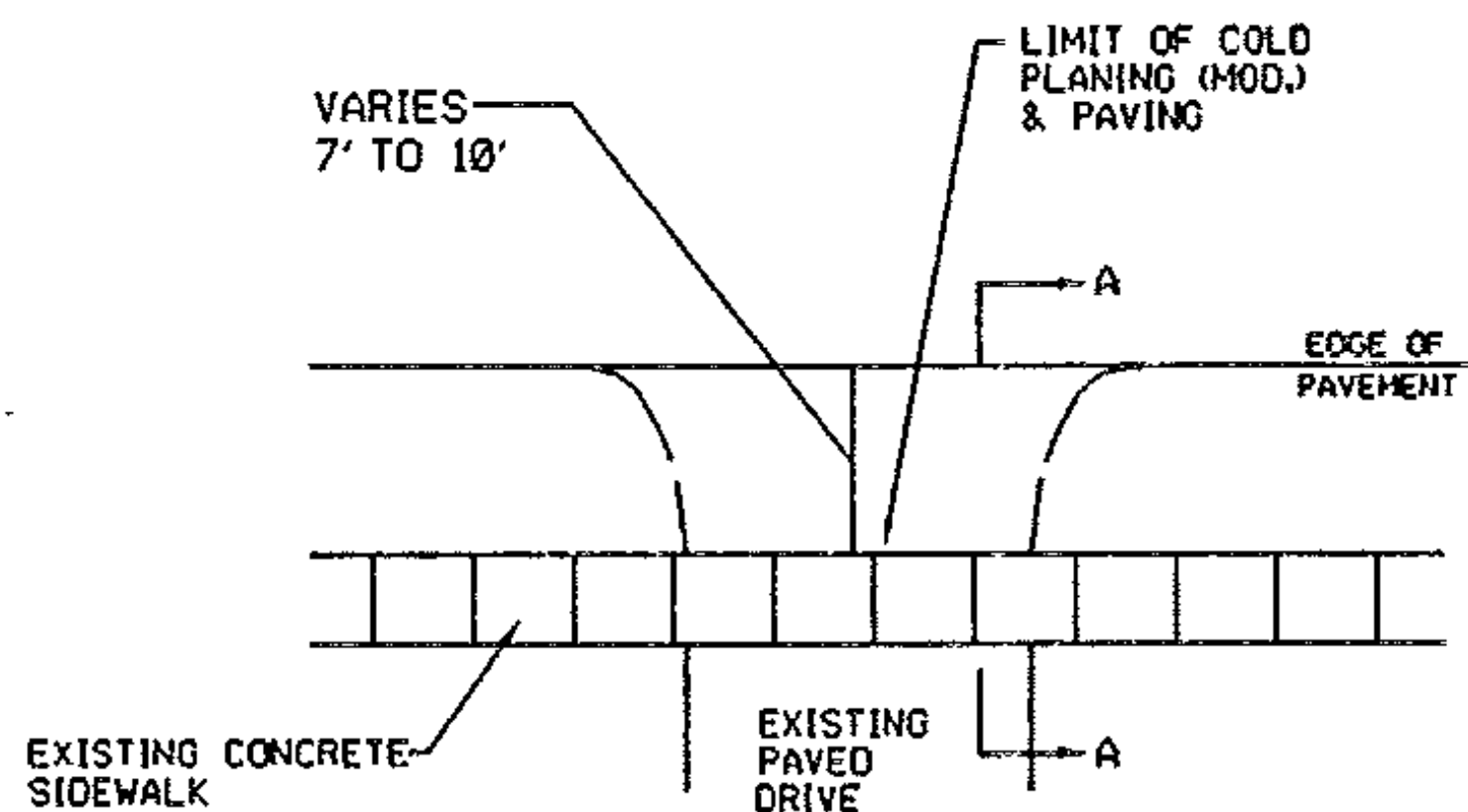


PAVEMENT LIMITS FOR DRIVES
NOT TO SCALE

ALL DRIVES
(UNLESS OTHERWISE SHOWN ON LAYOUT SHEETS)

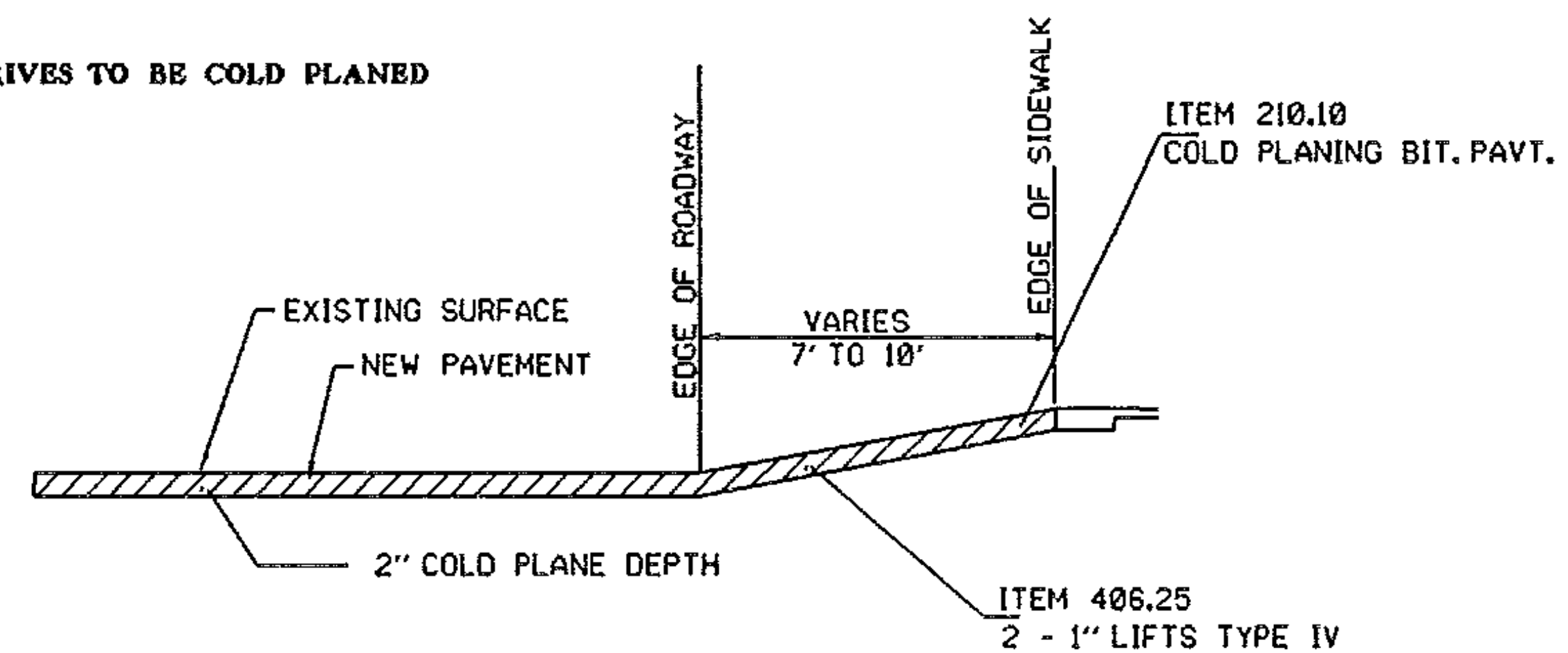


SECTION A-A
NOT TO SCALE



COLD PLANING & PAVEMENT LIMITS FOR DRIVES
NOT TO SCALE

DRIVES TO BE COLD PLANED



SECTION A-A
NOT TO SCALE

**PAVING
LIMITS
DETAIL
SHEET**

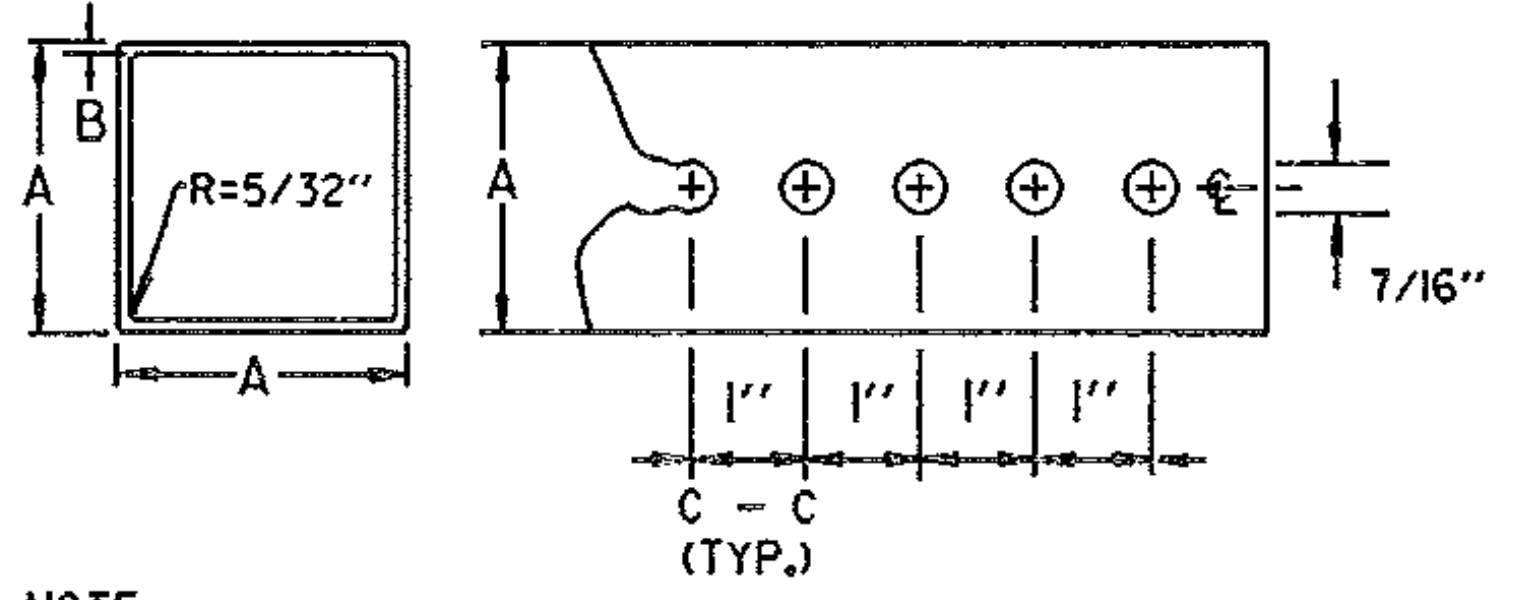
DESIGNED BY BCE/MJW DATE 1-96
 DRAWN BY C.E.A., INC. DATE 1-96
 DESIGN FILE NO. /pave/95c054/pc054.dgn
 PRF FILE pc054d2.i DATE PLOTTED 9-APR-1996
 PROJ. NAME DERBY LINE
 PROJ. NO. STP 9620(1)S
 SHEET 12 OF 12 SHEETS

GUARDRAIL DEFLECTION CHART

(PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)

TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	16' - 0"	12'
W/WOODEN POSTS	12' - 6"	12'
W-BEAM W/WEAK POST	12' - 6"	7'
W/STRONG POST	6' - 3"	3'
BOX BEAM	6' - 0"	5'
THREE BEAM W/WEAK POST	12' - 6"	4'
W/STRONG POST	6' - 3"	2'

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.



NOTE :
THE POSTS SHALL BE CAREFULLY FORMED OF STEEL WITH A MINIMUM YIELD OF 55,000 PSI, INTO A SIZE AND SHAPE WITH CORNERS INDUCTION WELDED IN SUCH A MANNER THAT NEITHER FLASH NOR WELD SHALL INTERFERE WITH THE TELESCOPING PROPERTIES, NOR DAMAGE THE GALVANIZING.

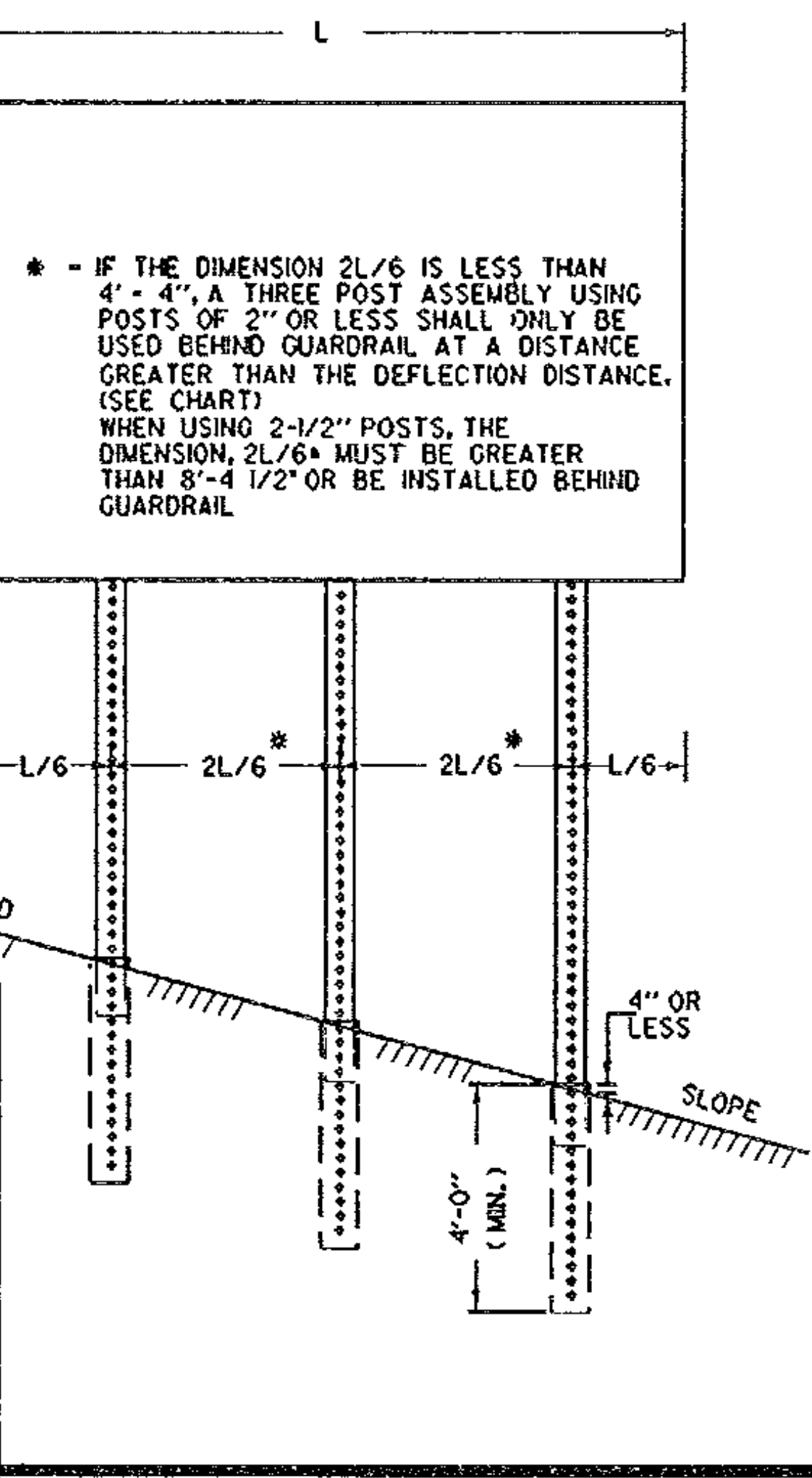
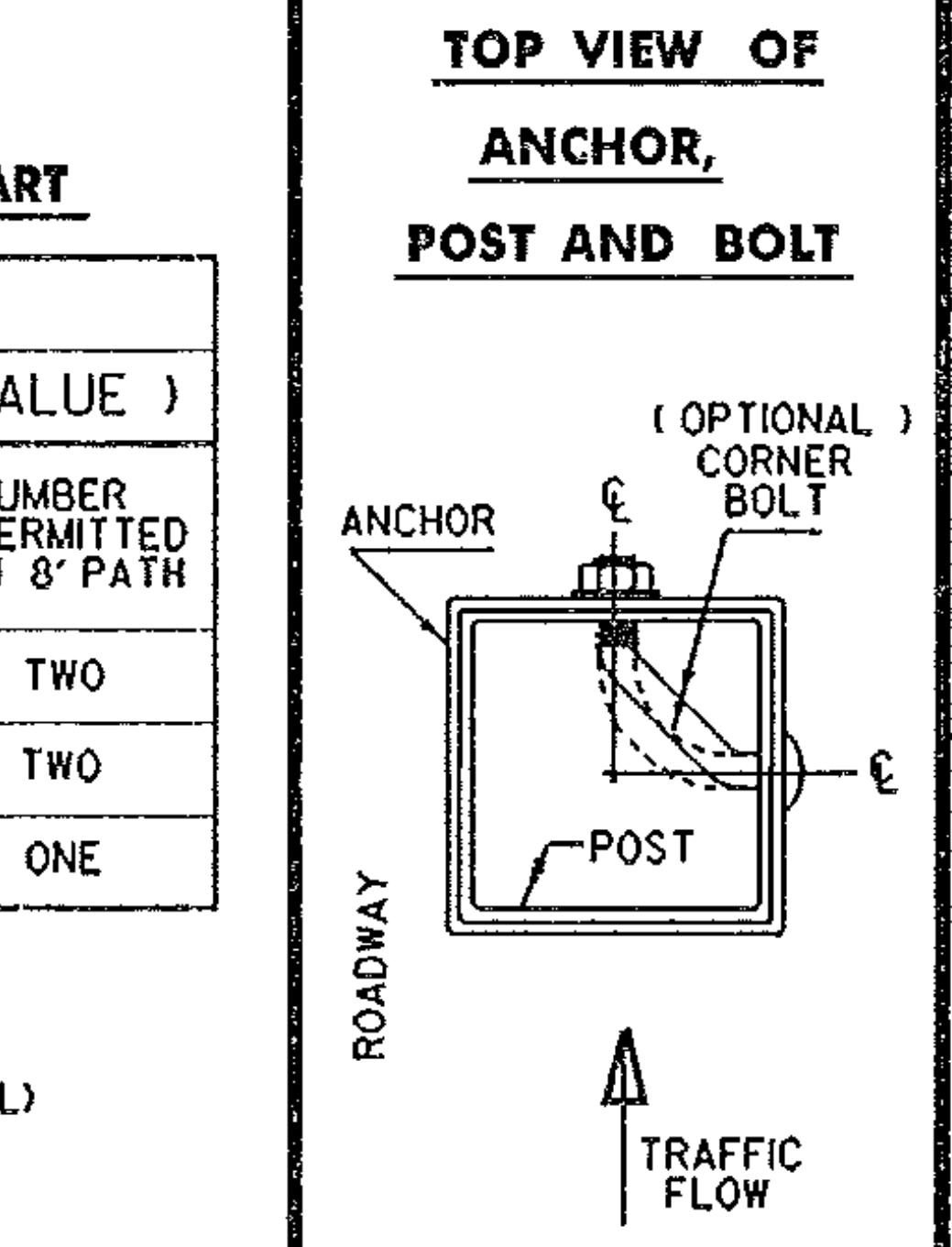
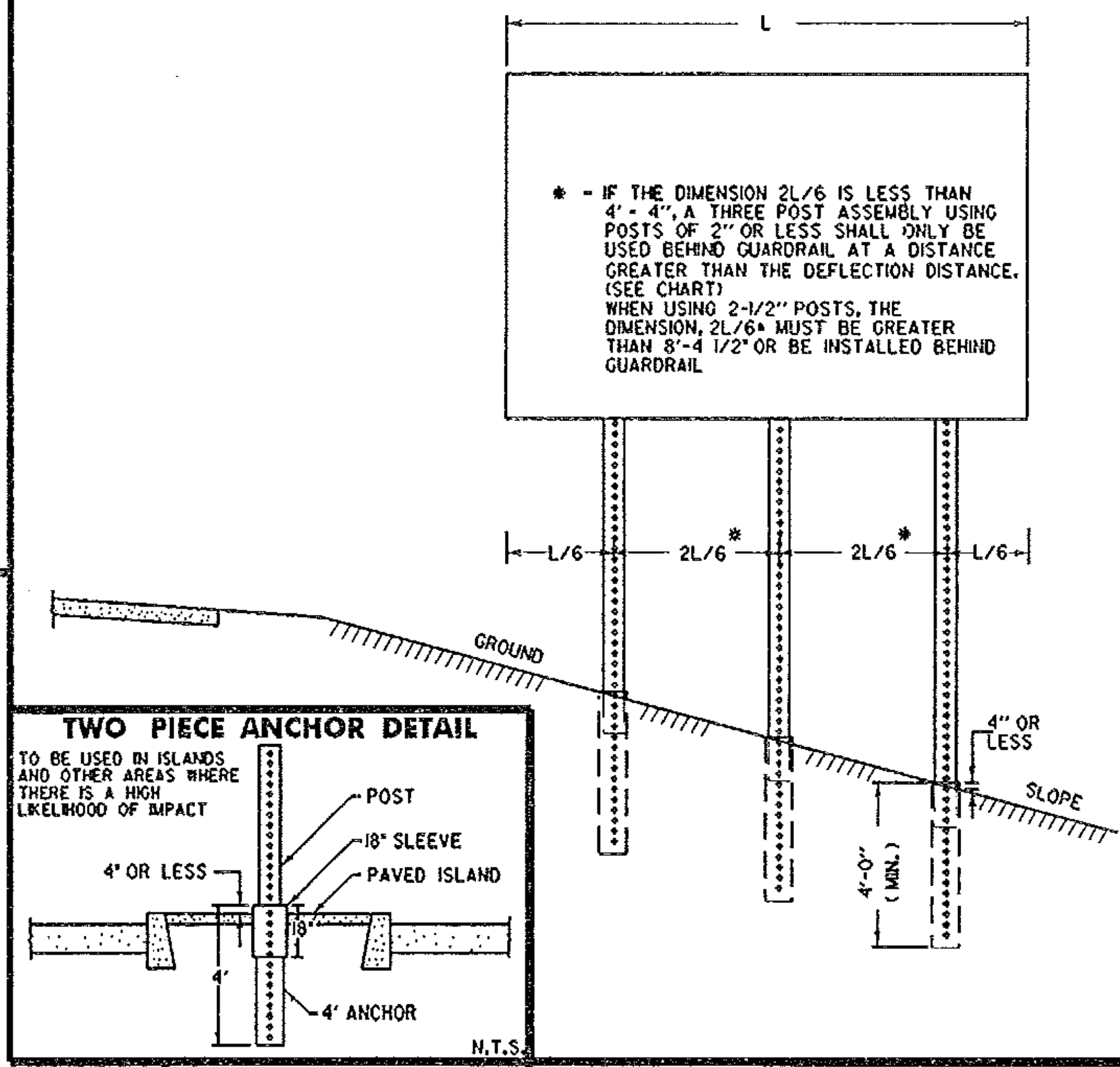
* THE WALL THICKNESS TOLERANCES SHALL BE +.005 AND -.010 FOR THE 12 GAUGE.

DIMENSION DETAILS AND POST SELECTION CHART

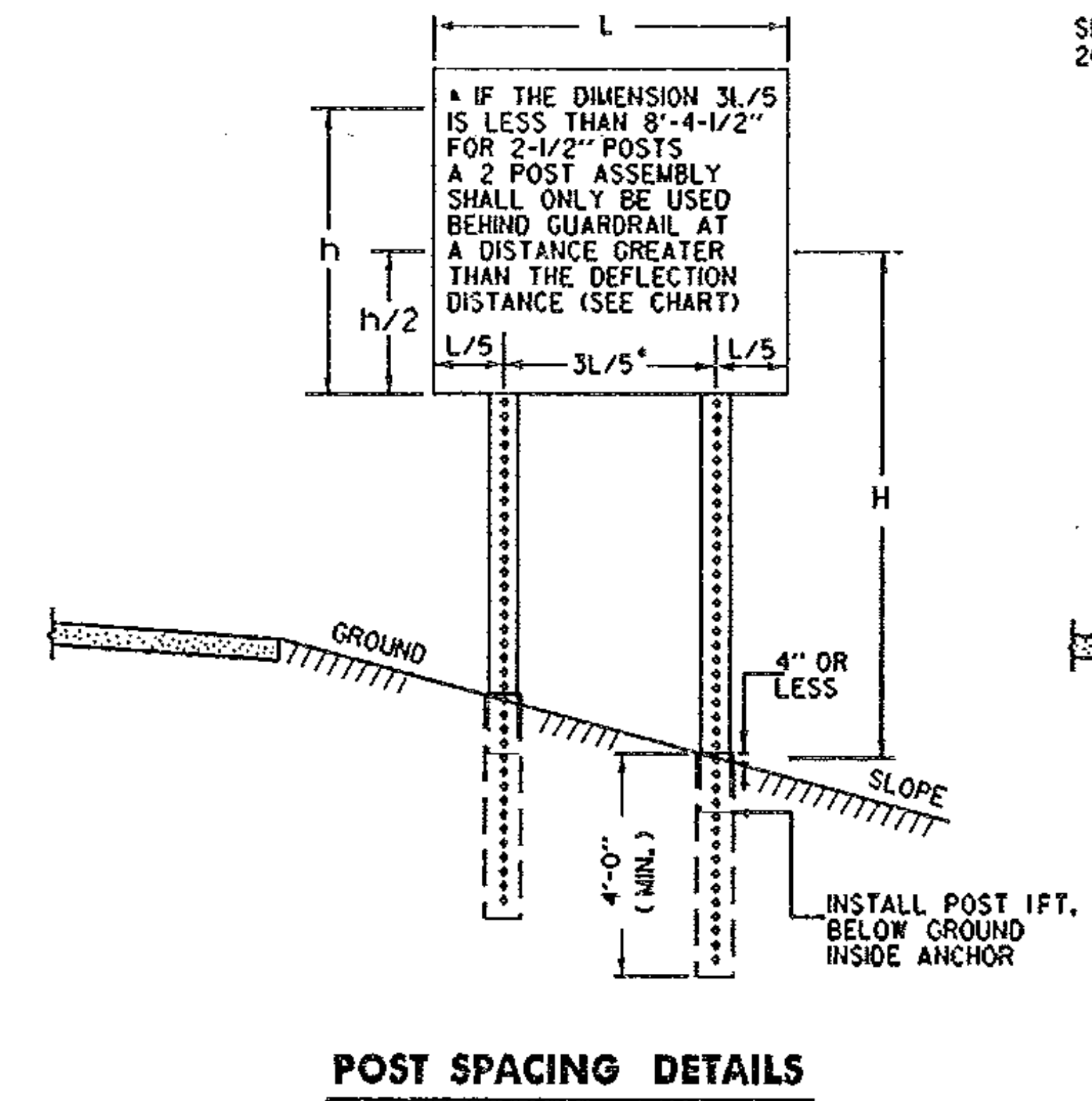
POST SELECTION CHART								
SIGN AREA (FT ²) X H (FT) ≤ SV (SELECTION VALUE)								
POST SIZE	DIMENSIONS			SECTION MODULUS	ONE POST	TWO POST	THREE POST	NUMBER PERMITTED
LBS/FT.	A	*B	GAUGE	IN ³	S _v	S _v	S _v	IN 8' PATH
2.30	1-3/4"	.105	12	0.265	73	146	219	TWO
2.65	2"	.105	12	0.372	102	204	306	TWO
3.35	2-1/2"	.105	12	0.642	177	354	531	ONE

DESIGN CRITERIA:
WIND SPEED = 60 MPH (10 -YEAR MEAN RECURRENCE INTERVAL)
WIND PRESSURE = 14 PSF
STEEL MINIMUM YIELD = 55,000 PSI
ALLOWABLE STRESS = (1.4) 0.60 FY

VERTICAL	N/A
HORIZONTAL	N/A



MULTI-POST INSTALLATIONS



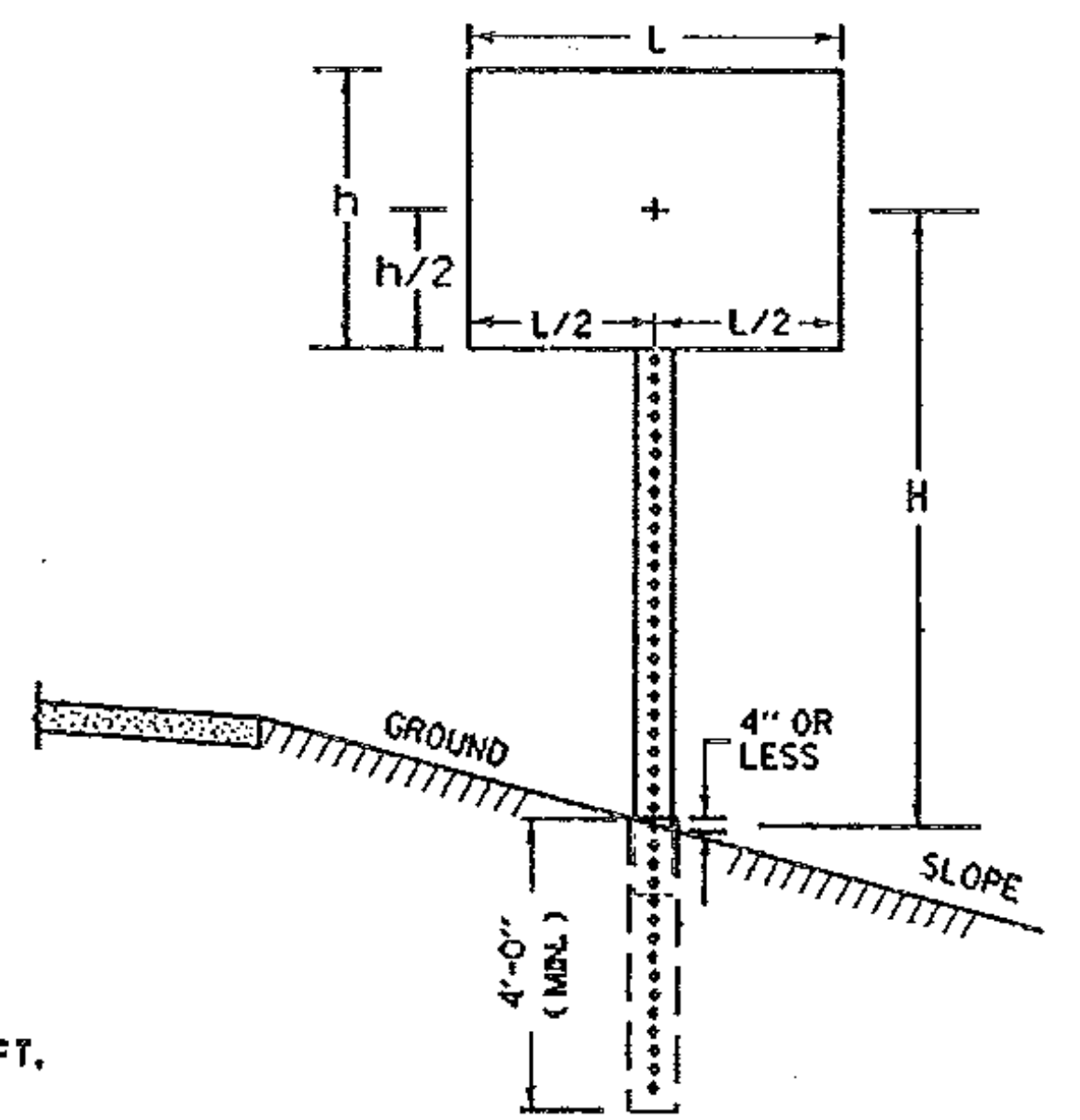
POST SPACING DETAILS

GENERAL NOTES

CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG HOLE INSTALLATION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

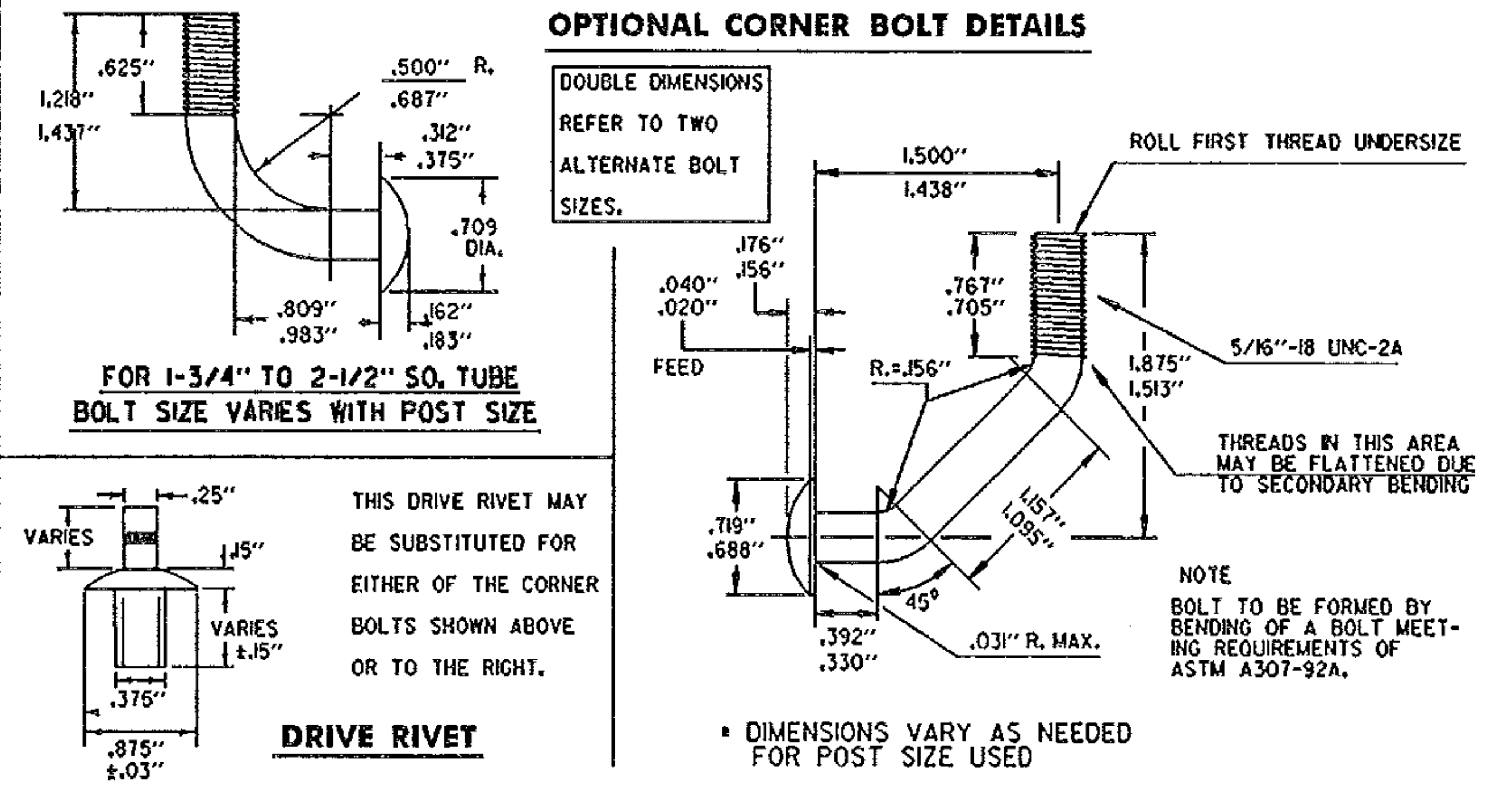
SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 20 SQ. FT. OR LESS

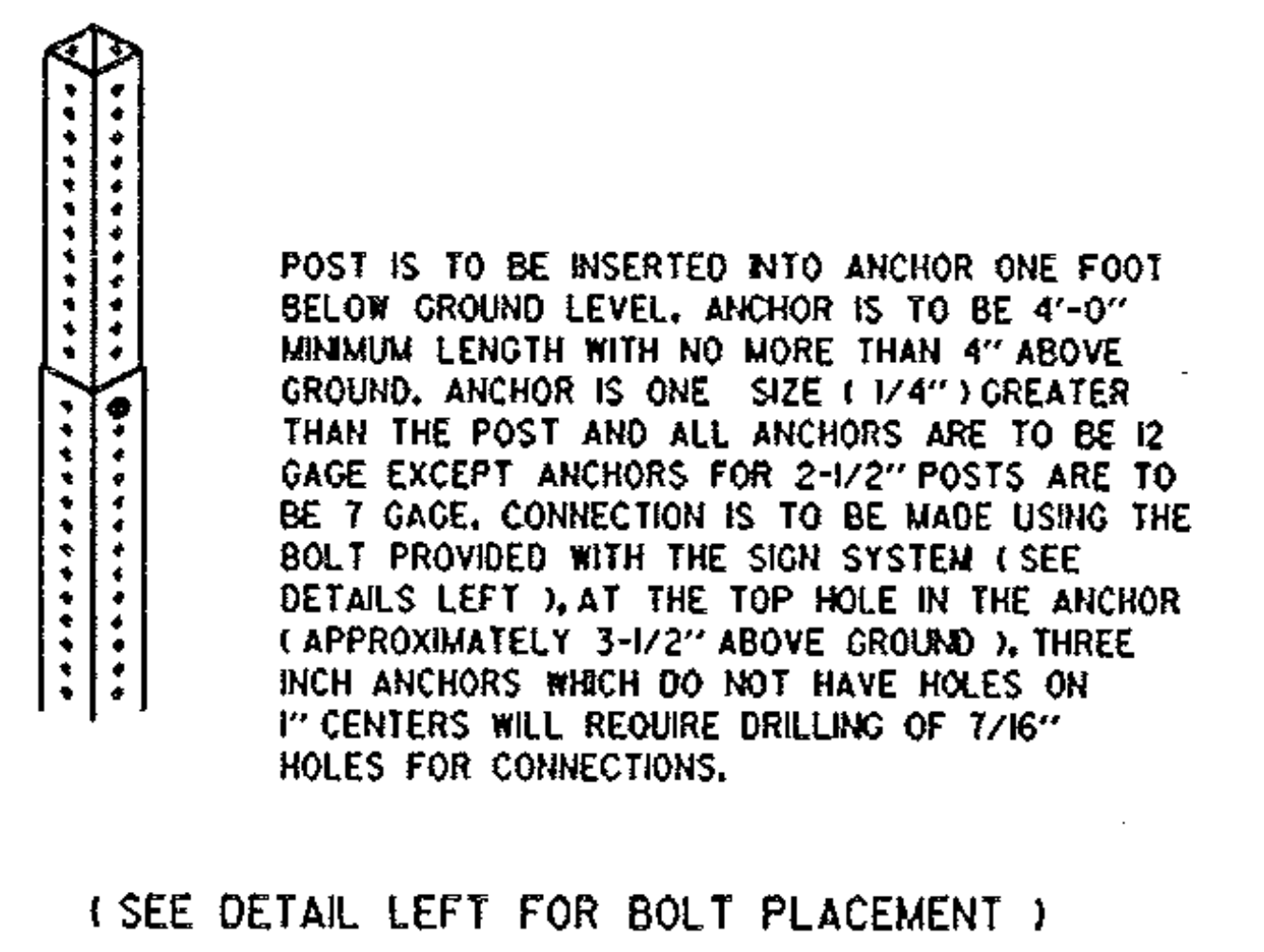


NOTE
WHEN USING SQUARE STEEL POSTS ON STEEP SLOPES (1 ON 2 OR STEEPER) ADD ONE FOOT EMBEDMENT FOR GREATER STABILITY.

OPTIONAL CORNER BOLT DETAILS



CONNECTION DETAIL



(SEE DETAIL LEFT FOR BOLT PLACEMENT)

SQUARE STEEL SIGN POST DETAIL SHEET

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	PAVE	DATE	2/96
SQUAD LEADER	N/A		
DESIGN FILE NO.	/pave/95c054/pc054.dgn		
PARM FILE	pc054d3.i	DATE PLOTTED	3-APR-1996
PROJ. NAME	DERBY LINE		
PROJ. NO.	STP 96201115		
SHEET	12A OF 12	SHEETS	