

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Date FEB 8 1988

PIKE INDUSTRIES, INC.
Contractor

Roger D. Martin
Signature

Roger D. Martin
Title



CONTRACT PLANS

THESE PLANS DO NOT REFLECT CHANGES MADE ON THE PROJECT AS "RECORD PLANS" WOULD.

Joe Campbell
Transportation Secretary's Signature

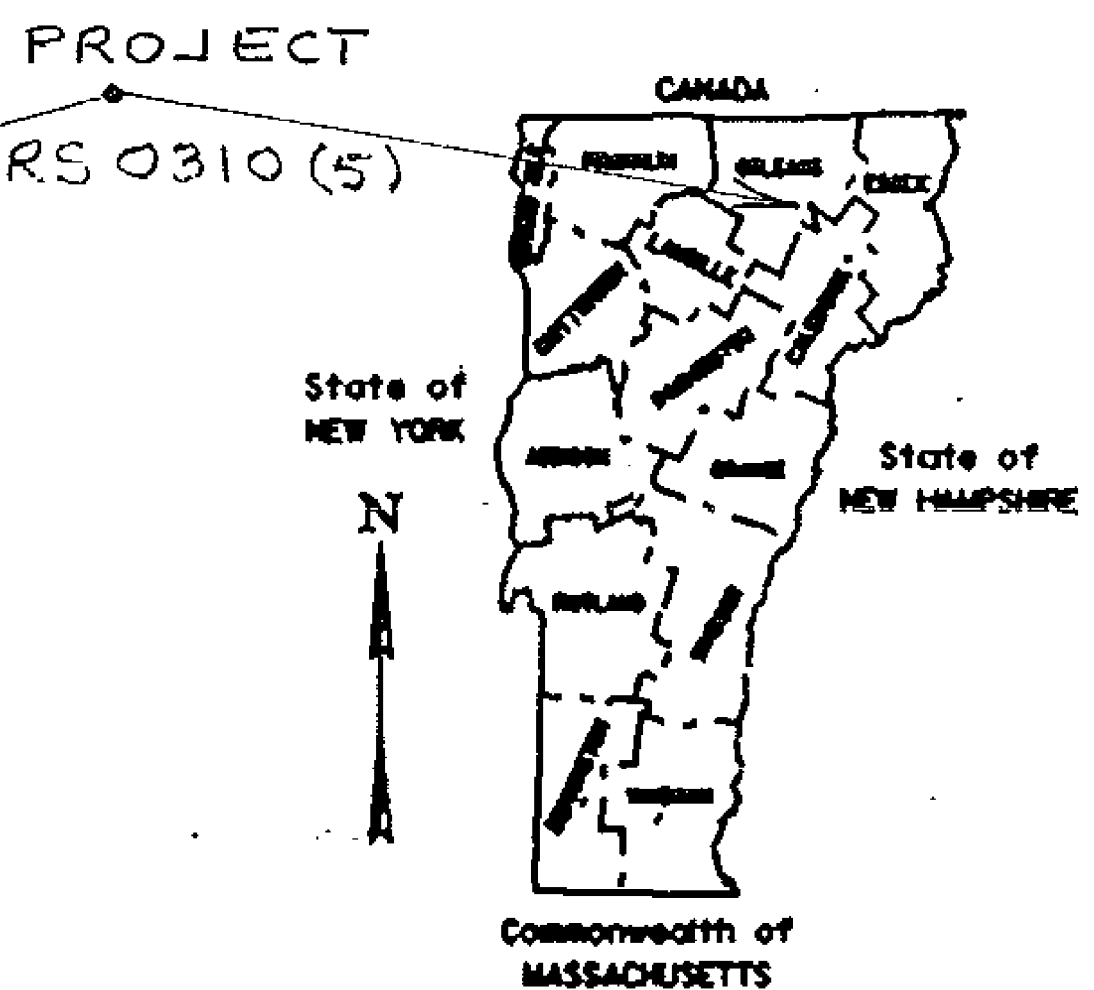
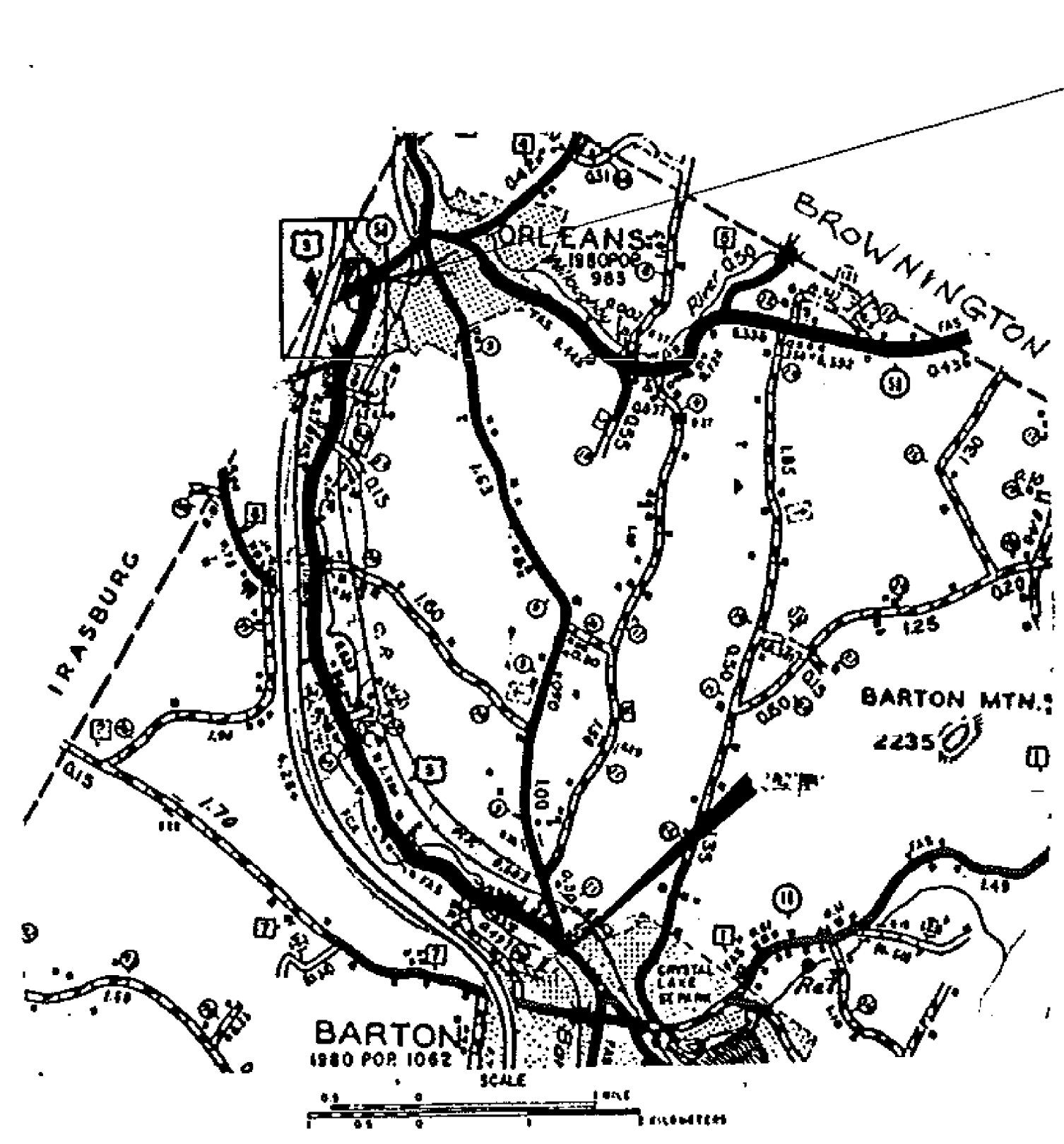
**PROPOSED IMPROVEMENT
RESURFACING PROJECT**

TOWN OF BARTON

COUNTY OF ORLEANS

ROUTE NO. VT 58

ROUTE CLASS F.A.S.



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1985 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

**PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN**

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED *David B. Kelley* DATE 9/28/87
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO. RS 0310 (5)

SHEET 1 OF 18 SHEETS

INDEX OF SHEETS

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- 2 INDEX OF SHEETS
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- 7 MARKING AT INTERSECTING SIDE ROAD
- 8 PLAN LAYOUT
- 9 NEW BRIDGE RAIL
- 10 QUANTITIES
- 12-18 TRAFFIC PLANS

APPLICABLE STANDARDS

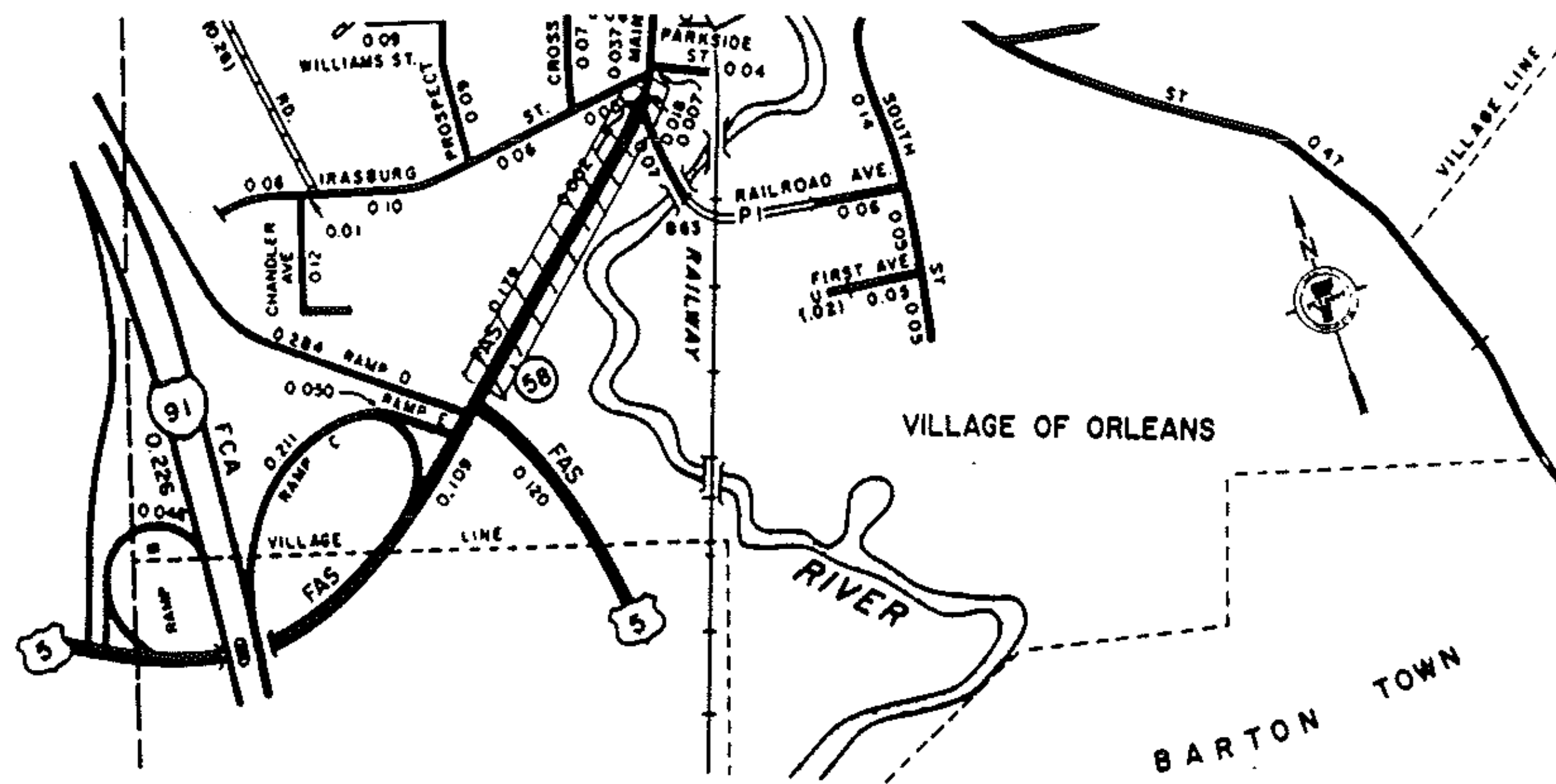
E-23	GUIDE SIGNS	DEC. 3, 1986 R
E-136	U.S. AND STATE ROUTE MARKER SIGN DETAILS	SEPT. 10, 1987
E-140	REGULATORY SIGN DETAILS	OCT. 30, 1987
E-141	REGULATORY SIGN DETAILS	OCT. 30, 1987
E-142	REGULATORY SIGN DETAILS	OCT. 30, 1987
E-143	REGULATORY SIGN DETAILS	OCT. 30, 1987
E-150	WARNING SIGN DETAILS	OCT. 30, 1987
E-151	WARNING SIGN DETAIL	OCT. 30, 1987
E-152	WARNING SIGN DETAILS	OCT. 30, 1987
G-1	STEEL BEAM GUARD RAIL & HEAVY DUTY STEEL BEAM GUARD RAIL	OCT. 31, 1985 R
G-1d	ANCHOR FOR STEEL BEAM RAIL	OCT. 31, 1985 R
G-15	BREAKAWAY CABLE TERMINAL WITH STEEL POSTS	OCT. 31, 1985 R
G-16	STEEL BEAM GUARD RAIL ATTACHMENTS TO EXISTING BRIDGE	NOV. 25, 1980 R

PROJECT BARTON

NO. RS 0310 (5)

SHEET 2 OF 18 SHEETS

PROJECT DESCRIPTION AND LOCATION



PROJECT LOCATION :

Beginning in the Town of Barton at MM 0.00 of VT 58 at the intersection of US 5 and extending easterly for 0.181 miles to MM 0.181

PROJECT LENGTH :

0.181 miles (956 feet)

PROJECT DESCRIPTION :

Resurface with a leveling course and 1 1/4" bituminous concrete. Upgrade road signs and pavement markings to current standards.

Replace cable rail with steel beam guard rail and breakaway cable terminal as shown on the plans.

TRAFFIC DATA :

1987 ADT = 4150
1987 DHV = 570

D% = 64%
T% = 1% (of IHV)

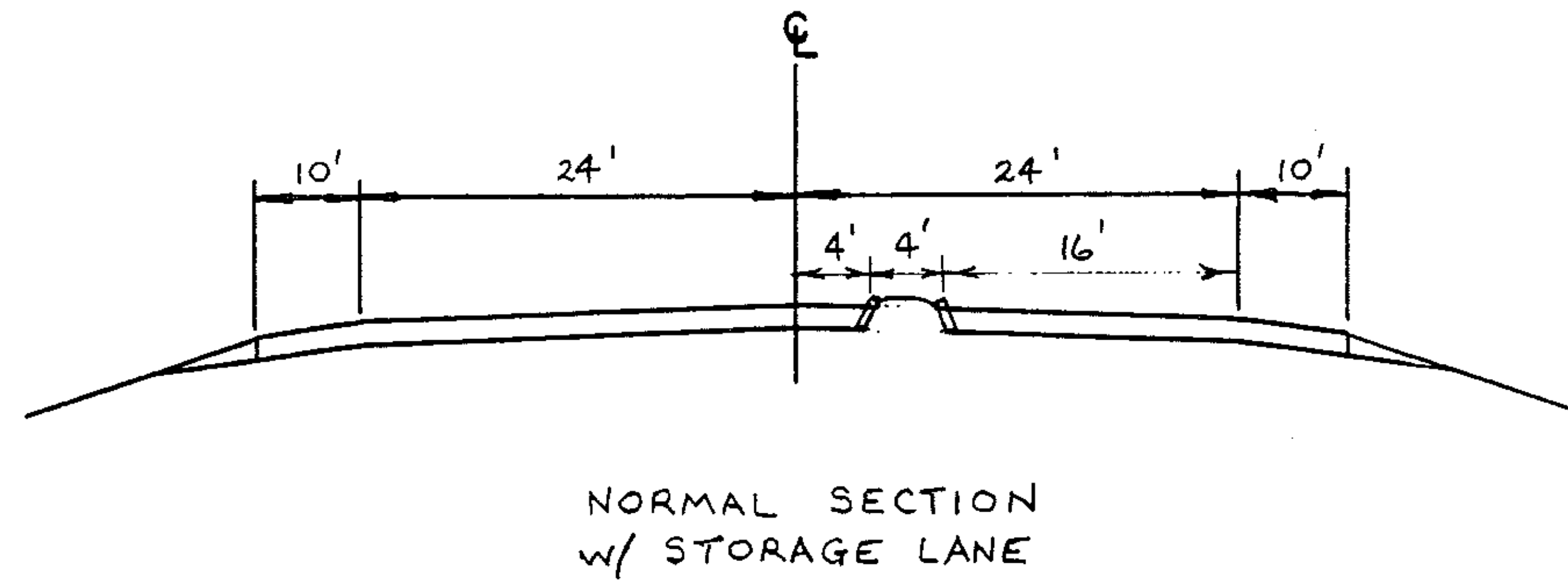
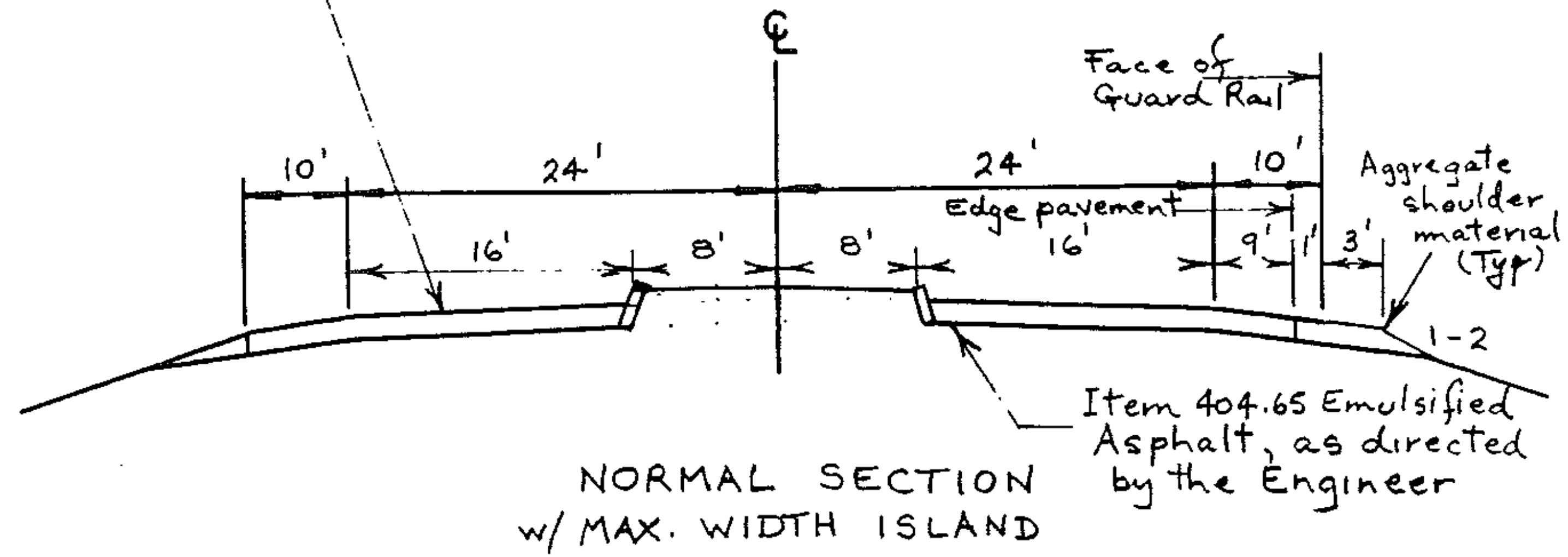
PROJECT BARTON

NO. RS 0310 (5)

SHEET 3 OF 18 SHEETS

TYPICAL SECTIONS & DESIGN DATA

Item 406.25, Bit. Conc. Pavmt
 1 1/4" wearing course, Type III ($\pm 1/4"$)
 over leveling course, Type IV (250 tons/mi)

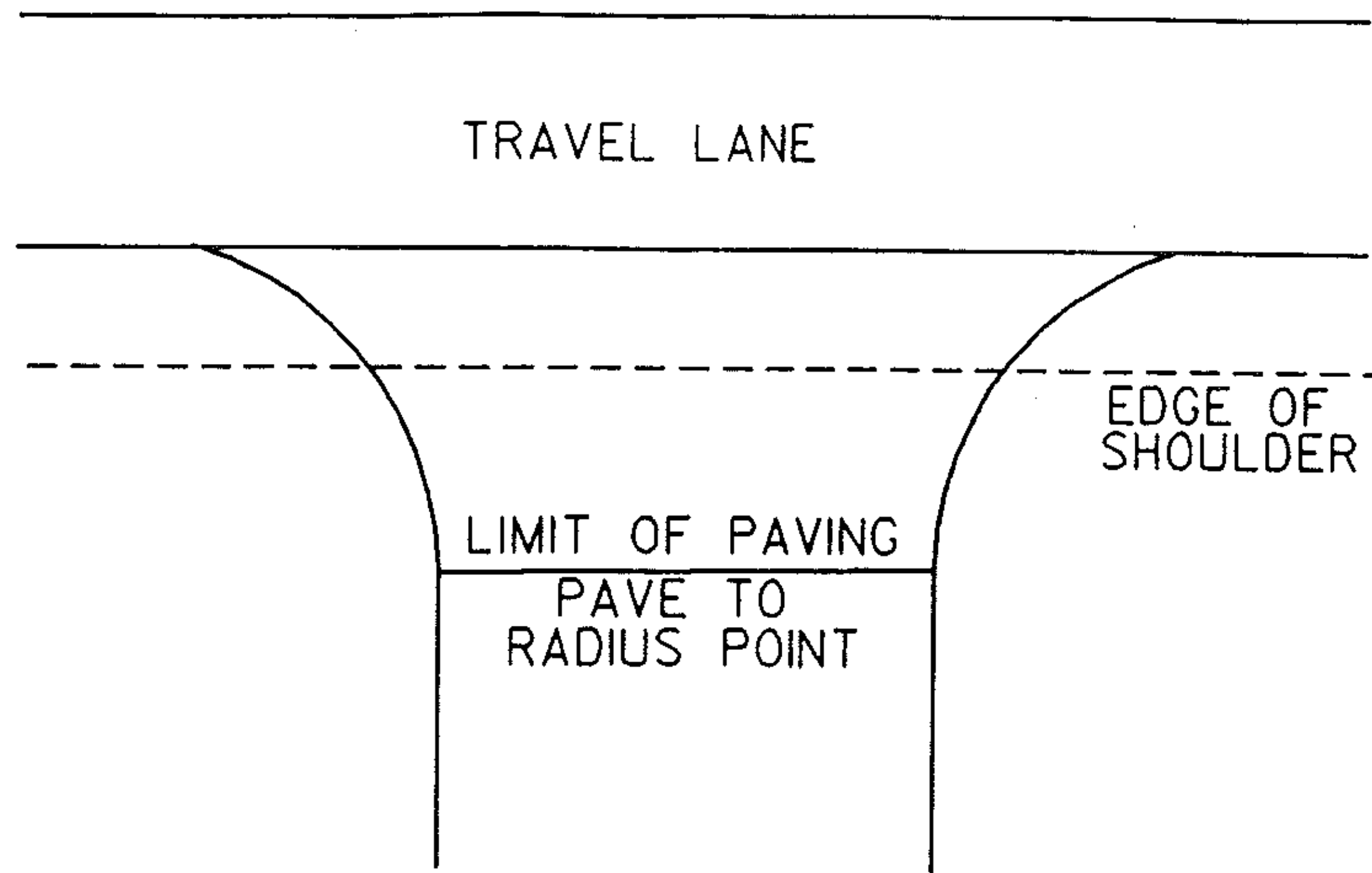


PROJECT BARTON

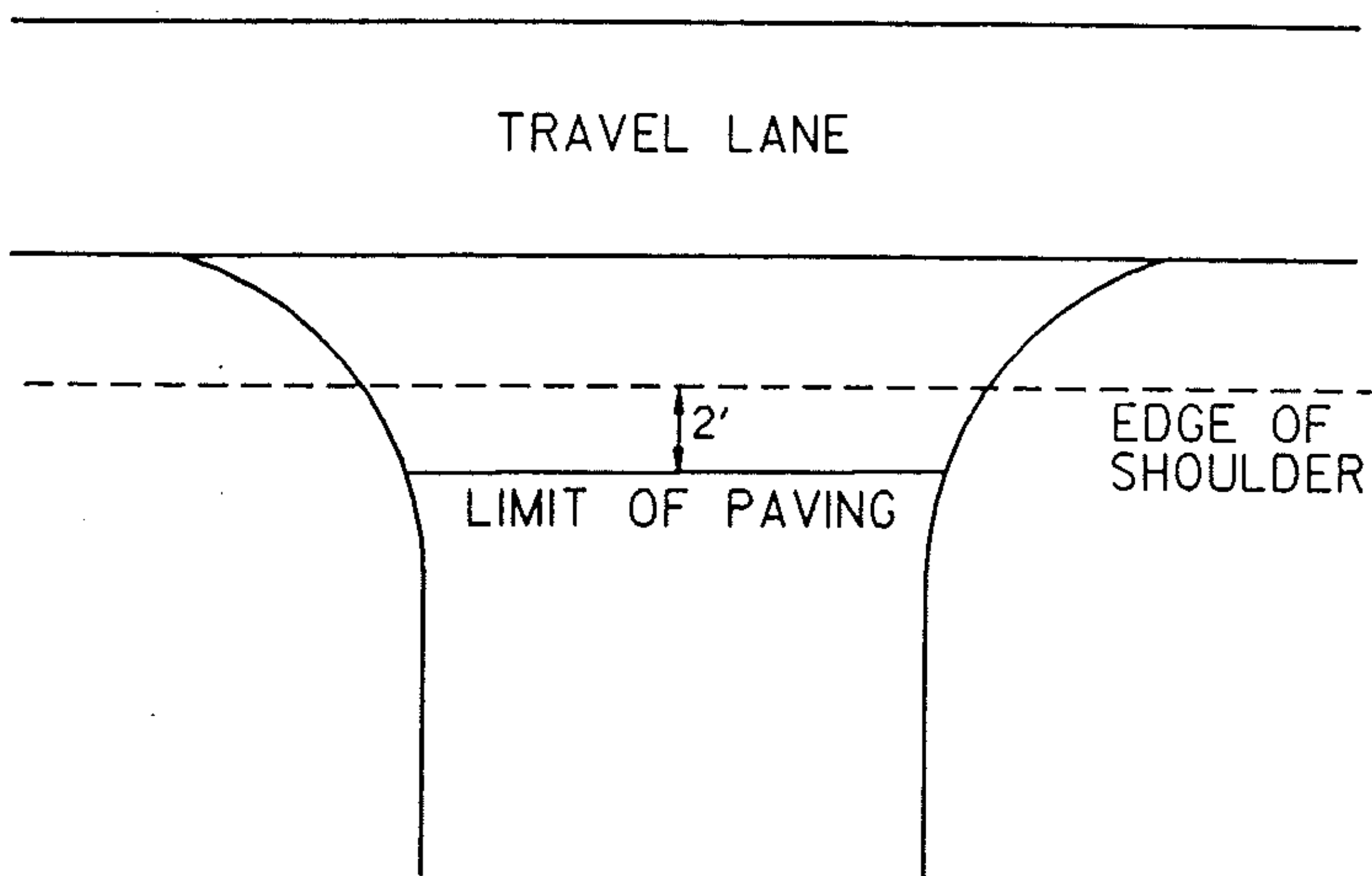
NO. RS 0310 (5)
 SHEET 4 OF 18

PAVING LIMITS FOR TOWN ROADS & DRIVES

PAVING LIMITS FOR TOWN ROADS



PAVING LIMITS FOR DRIVES



PROJECT BARTON

NO. RS 0310 (5)

SHEET 5 OF 18 SHEETS

GUIDELINES FOR MINIMUM INTERIM PAVEMENT MARKINGS
IN CONSTRUCTION ZONES

- A. CENTERLINE AND GORE AREA MARKINGS SHALL BE APPLIED AT THE END OF EACH WORKING DAY. THE FOLLOWING LAYOUT REQUIREMENTS SHALL BE MET:

NO PASSING BARRIER
SOLID STRIPES.

DASHED LINE
10-FOOT SOLID LINE WITH 30-FOOT GAP.

GORE AREA
(GORE AREAS TO INCLUDE 8' CHANNELIZING LINE AND DASHED LINE)
PER STANDARD SHEET E-50

- B. EDGE LINES

~~WHEN SPECIFIED, EDGE LINES ARE NOT REQUIRED UNTIL COMPLETION OF THE PROJECT. ON INTERSTATE PROJECTS, TEMPORARY EDGE LINES SHOULD BE APPLIED WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND DELAY OF SEVERAL DAYS IS ANTICIPATED.~~

- C. TEMPORARY MARKINGS MAY CONSIST OF PAINT, TAPE OR RAISED PAVEMENT MARKERS (RPM'S). THE TAPE SHALL BE A RETRO-REFLECTIVE FILM ON A CONFORMABLE METALLIC BACKING THAT CAN BE PAVED OVER. TAPE MAY BE USED ON THE FINAL SURFACE COURSE IF IT WILL NOT INTERFERE WITH THE FINAL MARKING APPLICATION. TEMPORARY TAPE MARKINGS WILL BE OFFSET AND REMOVED WHEN PROJECT IS FINISHED AND FINAL CENTERLINE PAINTED. THE TAPE SHALL BE THE TYPE THAT IS REMOVABLE INTACT AND NOT SEPERATE AT ANY TIME. THE RPM'S SHALL HAVE A SELF-ADHESIVE BACKING EASILY REMOVED BEFORE PAVING AND SHALL CONFORM TO THE FOLLOWING LAYOUT PATTERN:

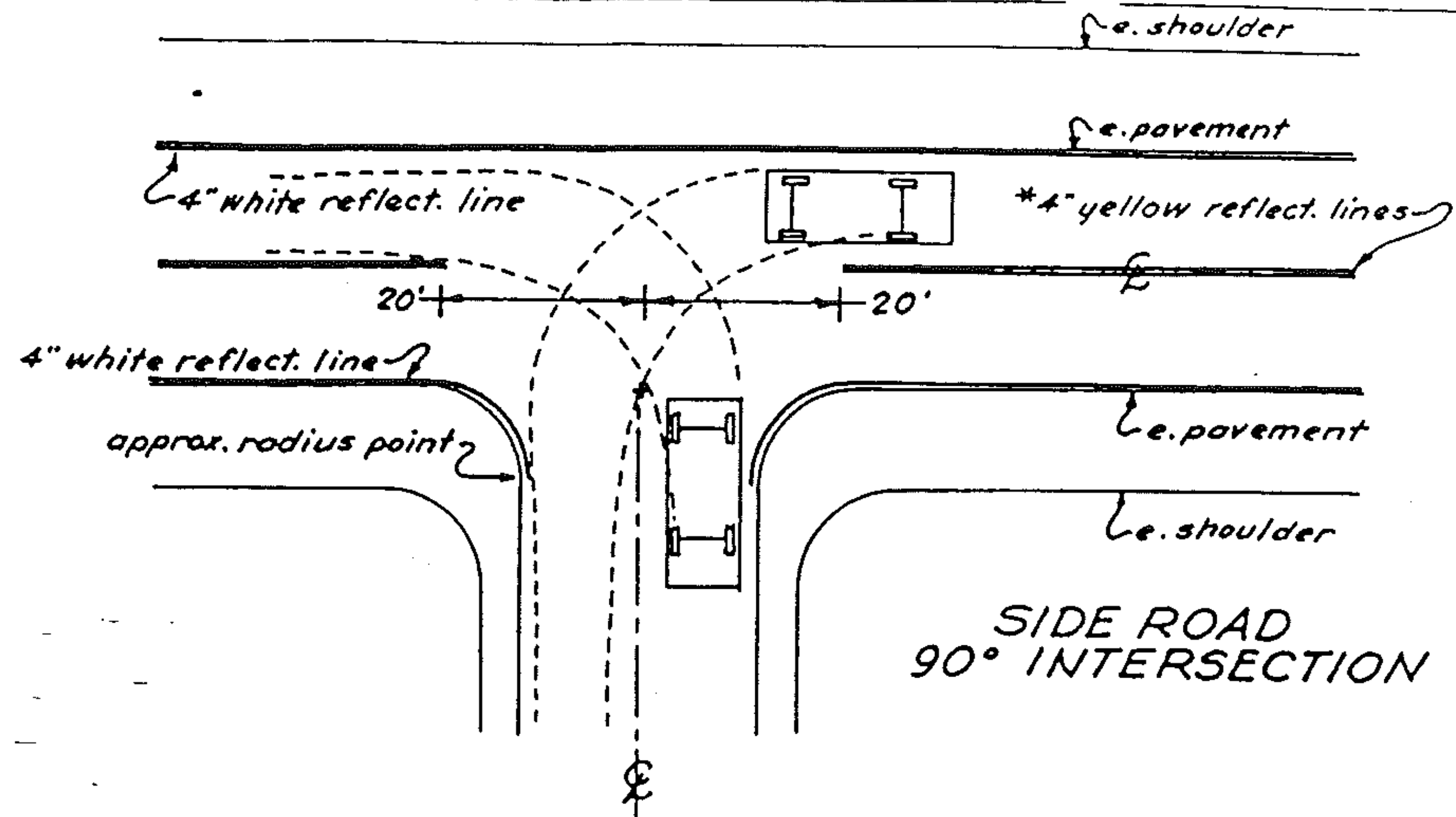
NO PASSING BARRIER
NO RPM'S ALLOWED.

DASHED LINE
FOUR RETRO-REFLECTIVE RPM'S ON 3 1/2 FOOT CENTERS WITH A 30' GAP.

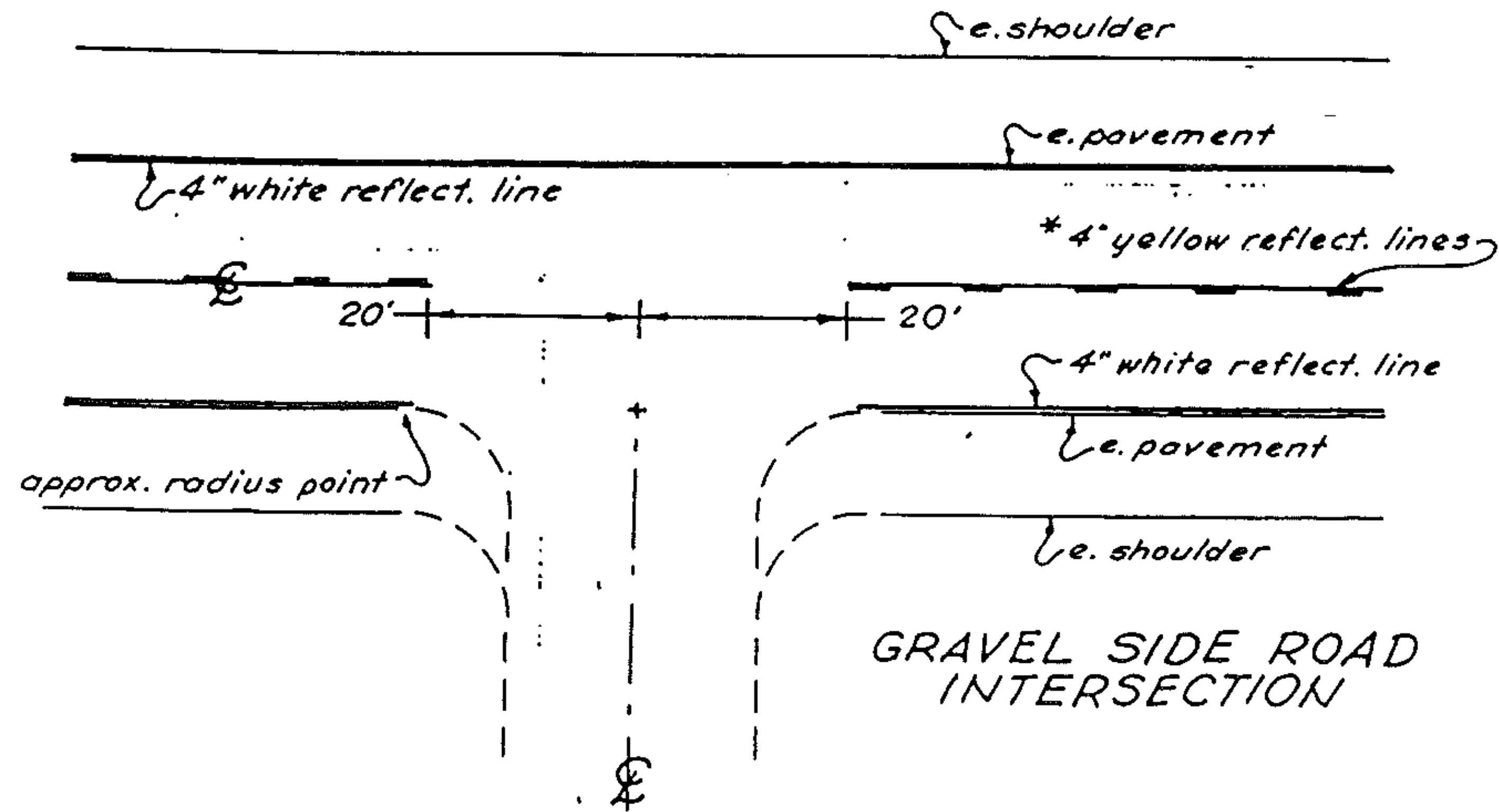
SOLID LINE - EDGE LINES
INTERSTATE MEDIAN SIDE-RETRO-REFLECTIVE RPM'S ON 4 TO 5 FOOT CENTER.
DRIVERS RIGHT SIDE-RPM'S NOT ALLOWED.

- D. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- E. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS USED. PAYMENT FOR THE RPM'S SHALL BE COMPUTED AS IF AN EQUIVALENT PAINT LINE WAS USED. (FOR EXAMPLE, DASHED LINE PAID AS 10 FEET OF PAINT, SOLID LINE PAID AS THE TOTAL DISTANCE COVERED WITH THE MARKERS).
- F. PRIOR TO ACCEPTANCE, THE PAVEMENT MARKINGS SHALL BE COMPLETED FOR THE ENTIRE PROJECT BY THE CONTRACTOR AS DETAILED ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

REVISED
02/11/85



* Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.



PROJECT BARTON

NO. RS 0310 (5)
SHEET 8 OF 18 SHEETS

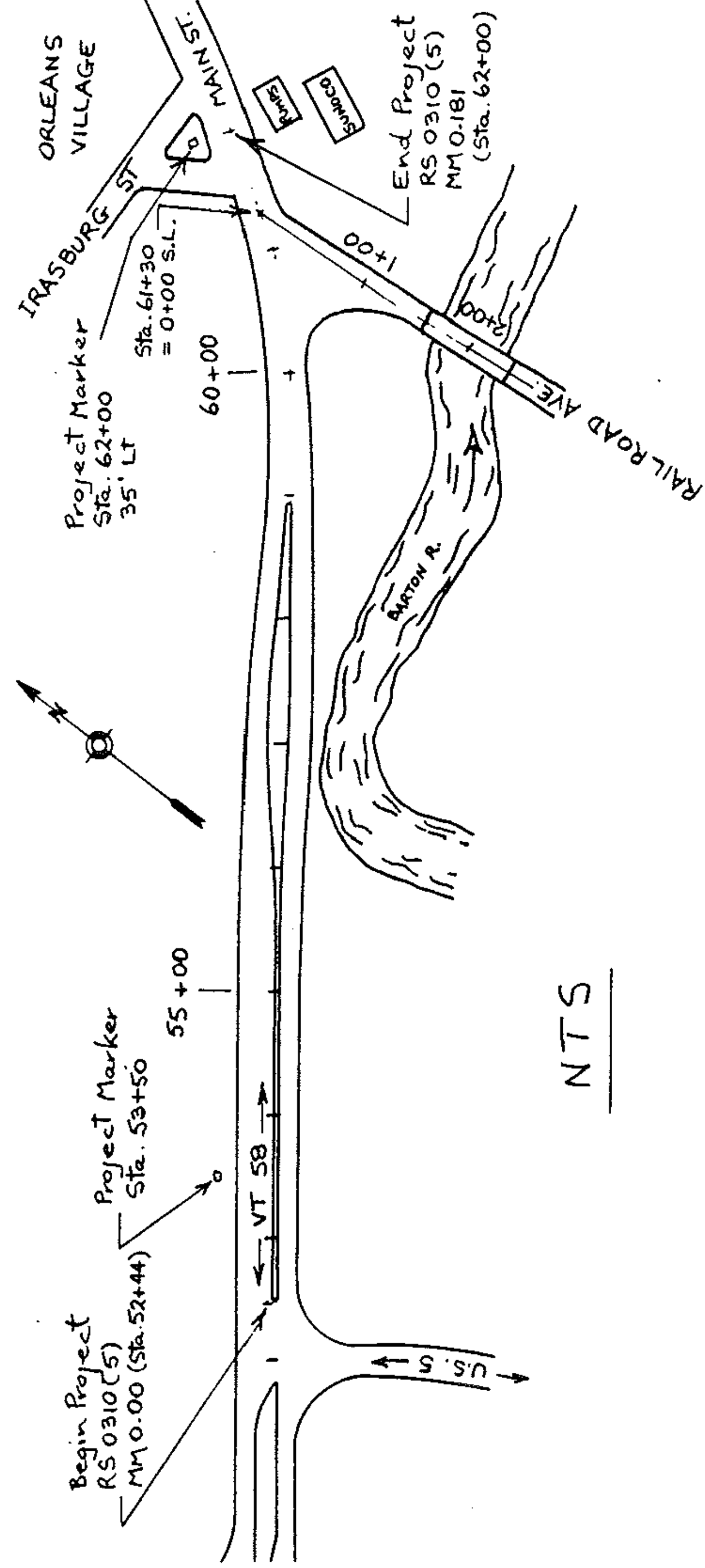
Item 621.80 Removal and Disposal
of
Guard Rail
Sta. 53+50 - 60+14 RT

Item 621.50 Breakaway Cable Terminal
as per Std. G-15
Sta. 53+43 - 53+68 RT

Item 621.20 Steel Beam Guard Rail
(steel posts @ 6'-3" spacing)
Sta. 53+68 - 60+12 RT

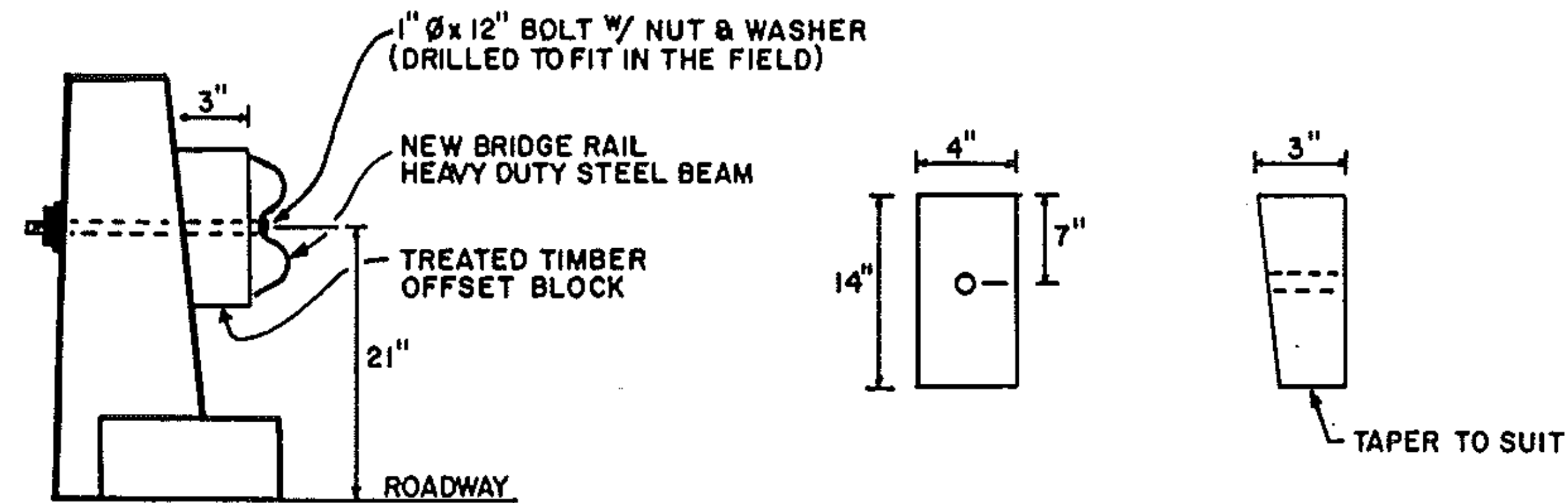
Item 621.21 Hwy Duty Steel Beam Guard Rail
(steel posts @ 6'-3" spacing)
Terminate guard rail with approach
end detail as per Std. G-1d
S.L. Sta. 1+38 - 2+63 RT

Applicable Standards : G1, G1d, G15 & G16



DETAILS

DETAILS



EXISTING CONCRETE BRIDGE POST
TYPICAL

TREATED TIMBER OFFSET BLOCK

NOTES:

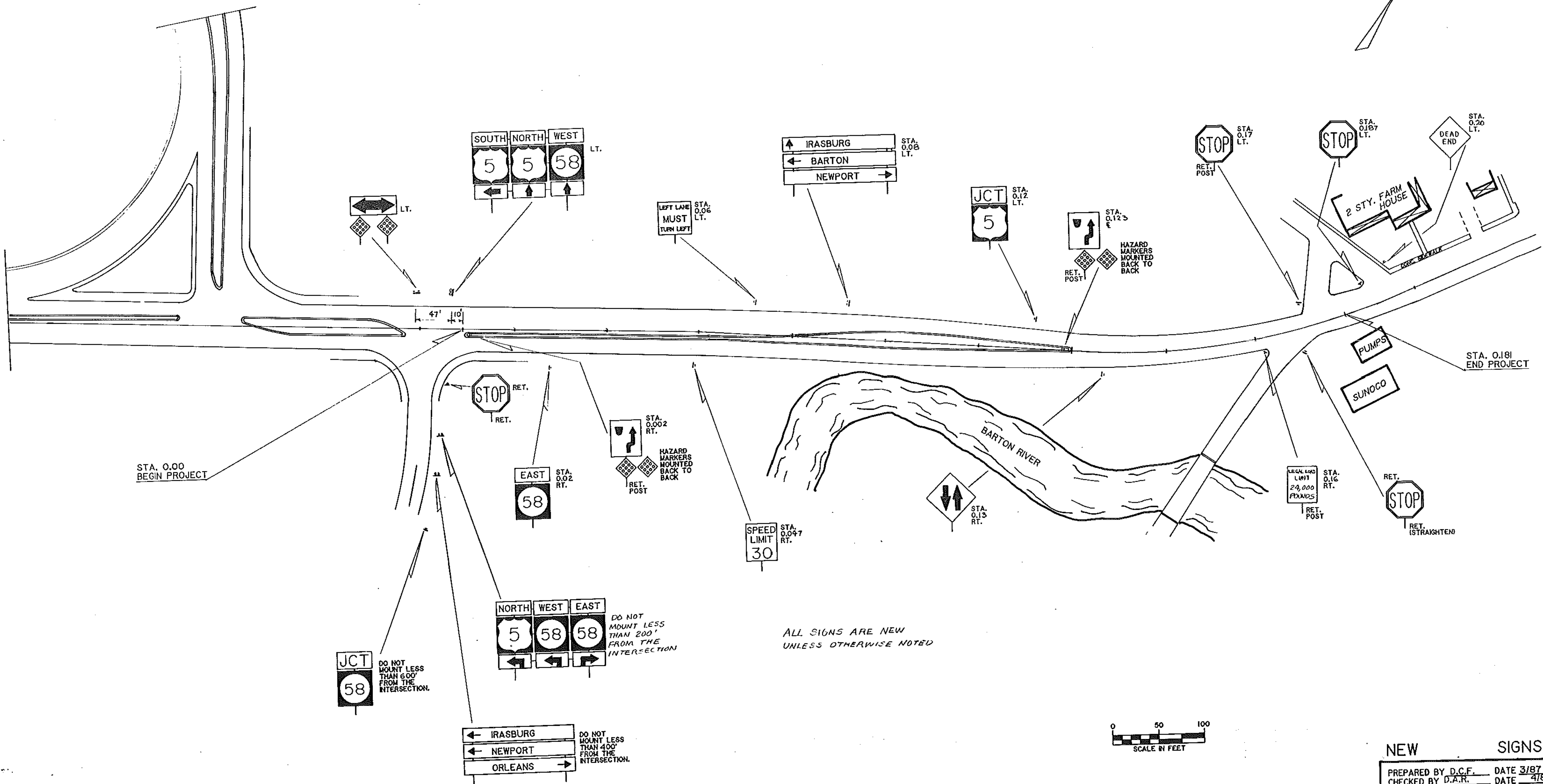
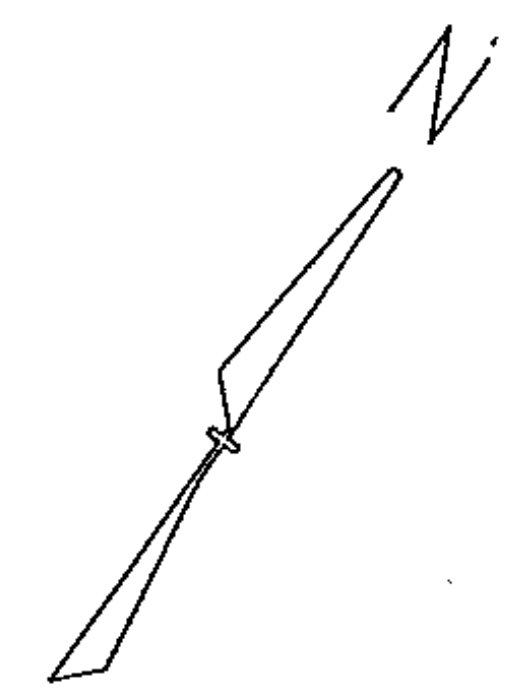
1. ALL EXISTING FITTINGS SHALL BE REMOVED FROM POSTS. POST FACES SHALL BE REPAIRED WITH MORTAR TO ASSURE THAT OFFSET BLOCK SEATS FLUSH.
2. GUARD RAIL AND OFFSET BLOCKS SHALL BE INSTALLED AS SHOWN ON THESE PLANS AND AS PER STANDARD G-16. ALL WORK AND MATERIALS SHALL BE PAID FOR UNDER THE ITEM "HEAVY DUTY STEEL BEAM GUARD RAIL"
3. THE RESIDENT ENGINEER SHALL HAVE THE RIGHT TO MODIFY THE INSTALLATION AT HIS DISCRETION AS REQUIRED.

PROJECT _____

BARTON _____

NO. RS 0310 (5)

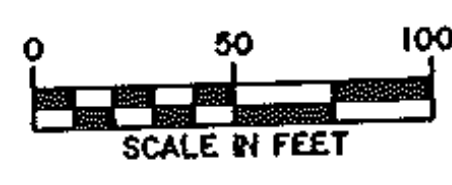
SHEET 9 OF 18 SHEETS



STA. 0.00
BEGIN PROJECT

STA. 0.181
END PROJECT

ALL SIGNS ARE NEW
UNLESS OTHERWISE NOTED



NEW SIGNS

PREPARED BY D.C.F. DATE 3/87
 CHECKED BY D.A.R. DATE 4/87
 DESIGN SUPERVISOR D.A.R. DATE 4/87
 PROJ. BARTON
 RS 0310(5)
 TRAFFIC SHEET NO. 502 OF 507
 SHEET 13 OF 18 SHEETS

JCT
58
DO NOT MOUNT LESS THAN 600' FROM THE INTERSECTION.

NORTH WEST EAST
5 58 58
DO NOT MOUNT LESS THAN 200' FROM THE INTERSECTION

IRASBURG
NEWPORT
ORLEANS
DO NOT MOUNT LESS THAN 400' FROM THE INTERSECTION.

EAST
58
STA. 0.02 RT.

SPEED LIMIT
30
STA. 0.047 RT.

STA. 0.13 RT.

LEGAL LOAD
LIMIT
24,000
POUNDS
STA. 0.16 RT.

STOP
RET. (STRAIGHTEN)

SOUTH NORTH WEST
5 5 58
LT.

IRASBURG
BARTON
NEWPORT
STA. 0.08 LT.

JCT
58
STA. 0.12 LT.

HAZARD MARKERS MOUNTED BACK TO BACK
STA. 0.123 E
RET. POST

STOP
RET. POST
STA. 0.17 LT.

STOP
STA. 0.187 LT.

DEAD END
STA. 0.20 LT.

2 STY. FARM HOUSE

PUMPS

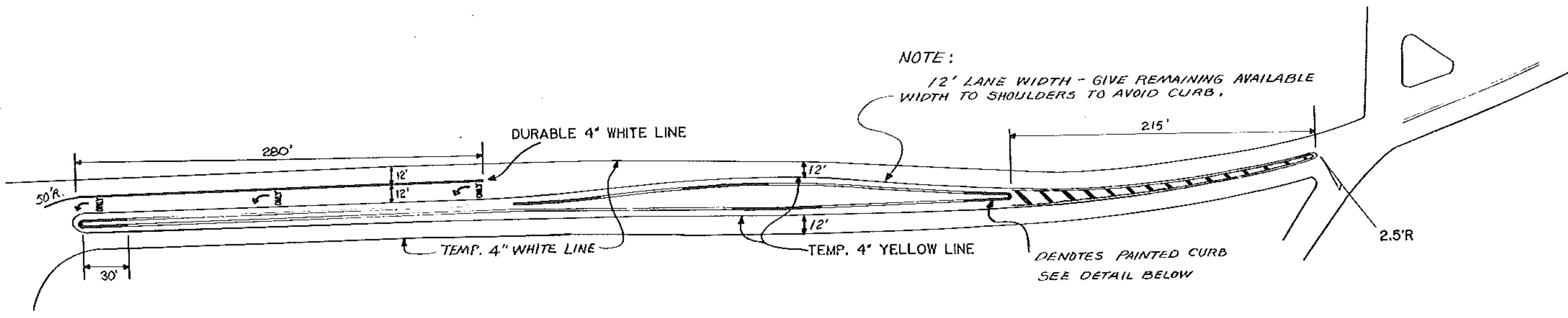
SUNOCO

LEFT LANE MUST TURN LEFT
STA. 0.06 LT.

LT.

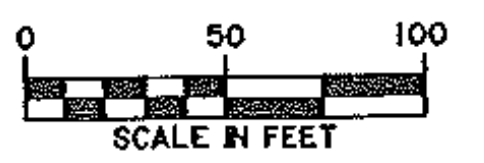
HAZARD MARKERS MOUNTED BACK TO BACK
STA. 0.002 RT.
RET. POST

←
ONLY

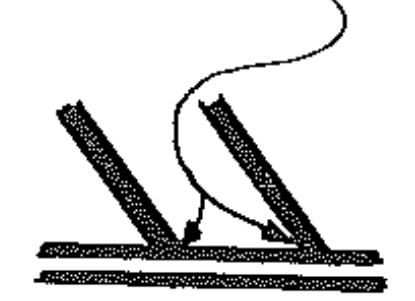


NOTE:
12' LANE WIDTH - GIVE REMAINING AVAILABLE WIDTH TO SHOULDERS TO AVOID CURB.

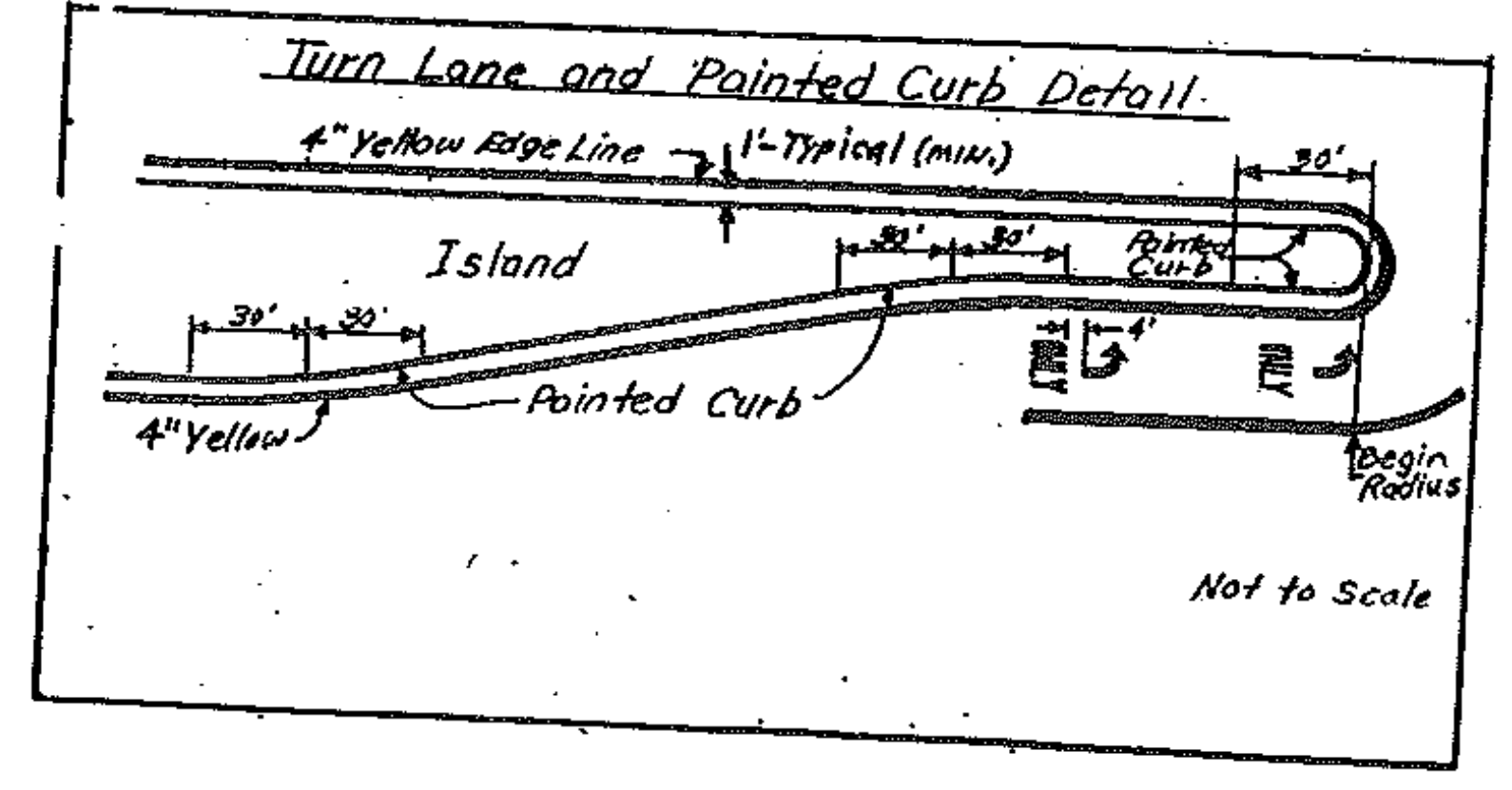
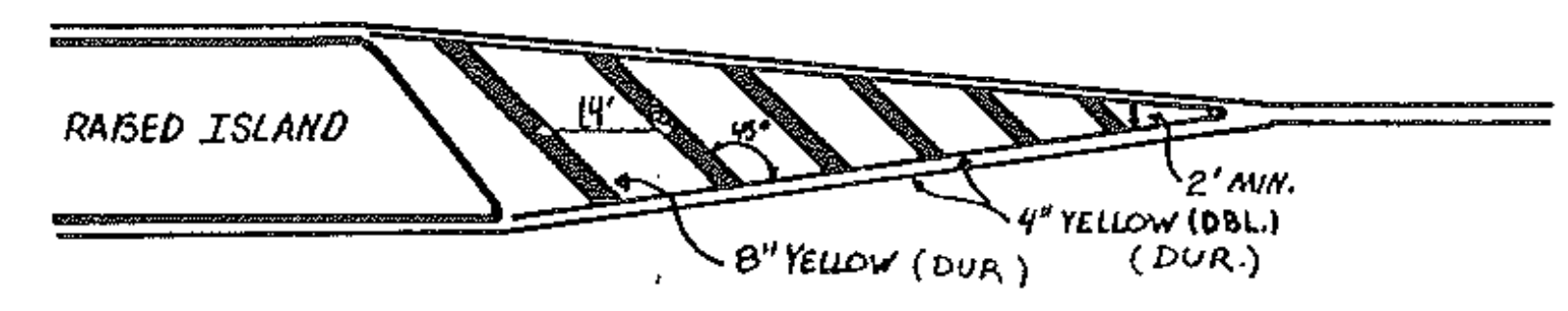
REMOVAL OF EXISTING DELINEATORS
5



NOTE:
PAINT DIAGONAL LINES FIRST SO THEY WILL BE OVERLAPPED BY THE 4\"/>



ISLAND APPROACH MARKINGS



PREPARED BY D.C.F. DATE 4/87
 CHECKED BY D.A.R. DATE 4/87
 DESIGN SUPERVISOR DAR DATE 4/87
 PROJ. BARTON
 R5 0310 (5)
 TRAFFIC SHEET NO. 507 OF 507
 SHEET 18 OF 18 SHEETS