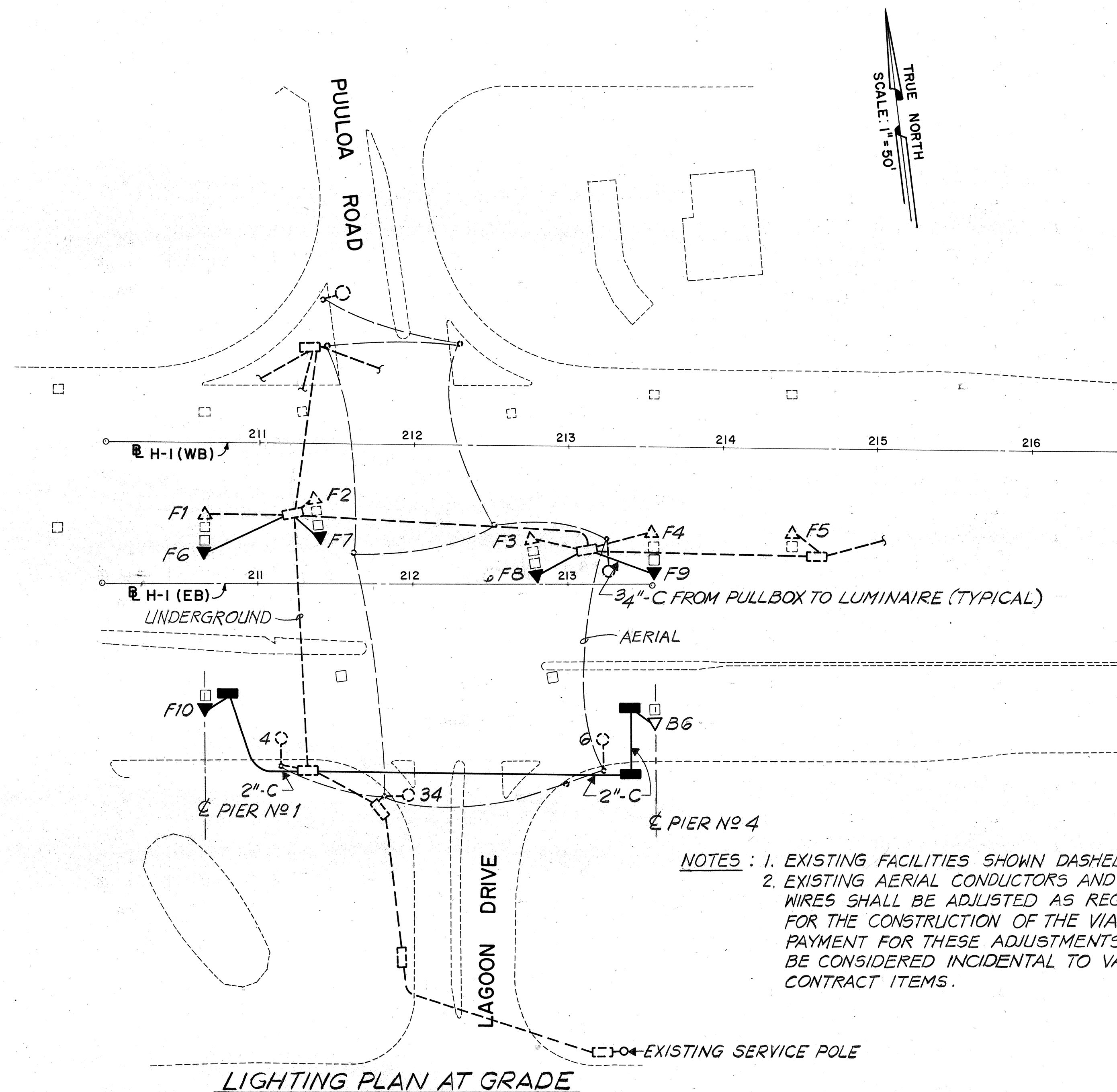
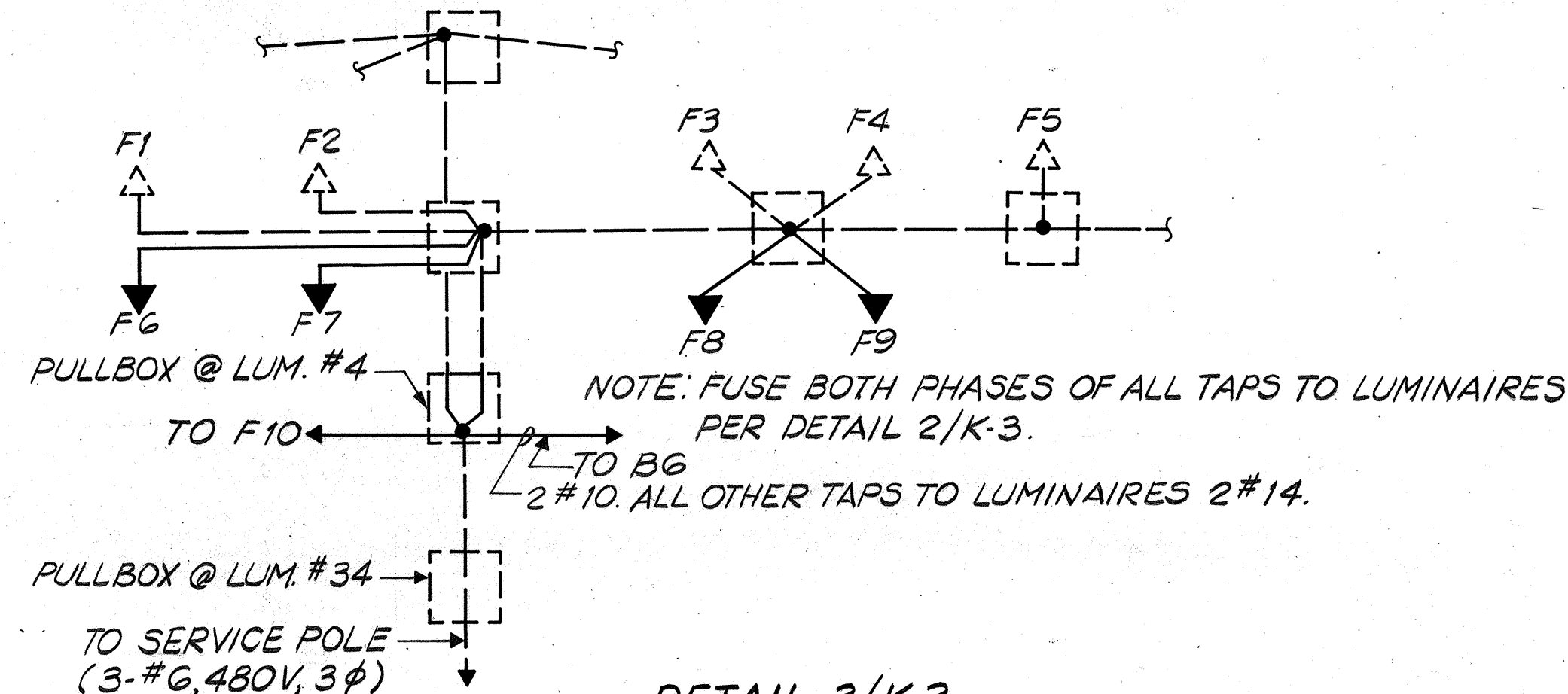


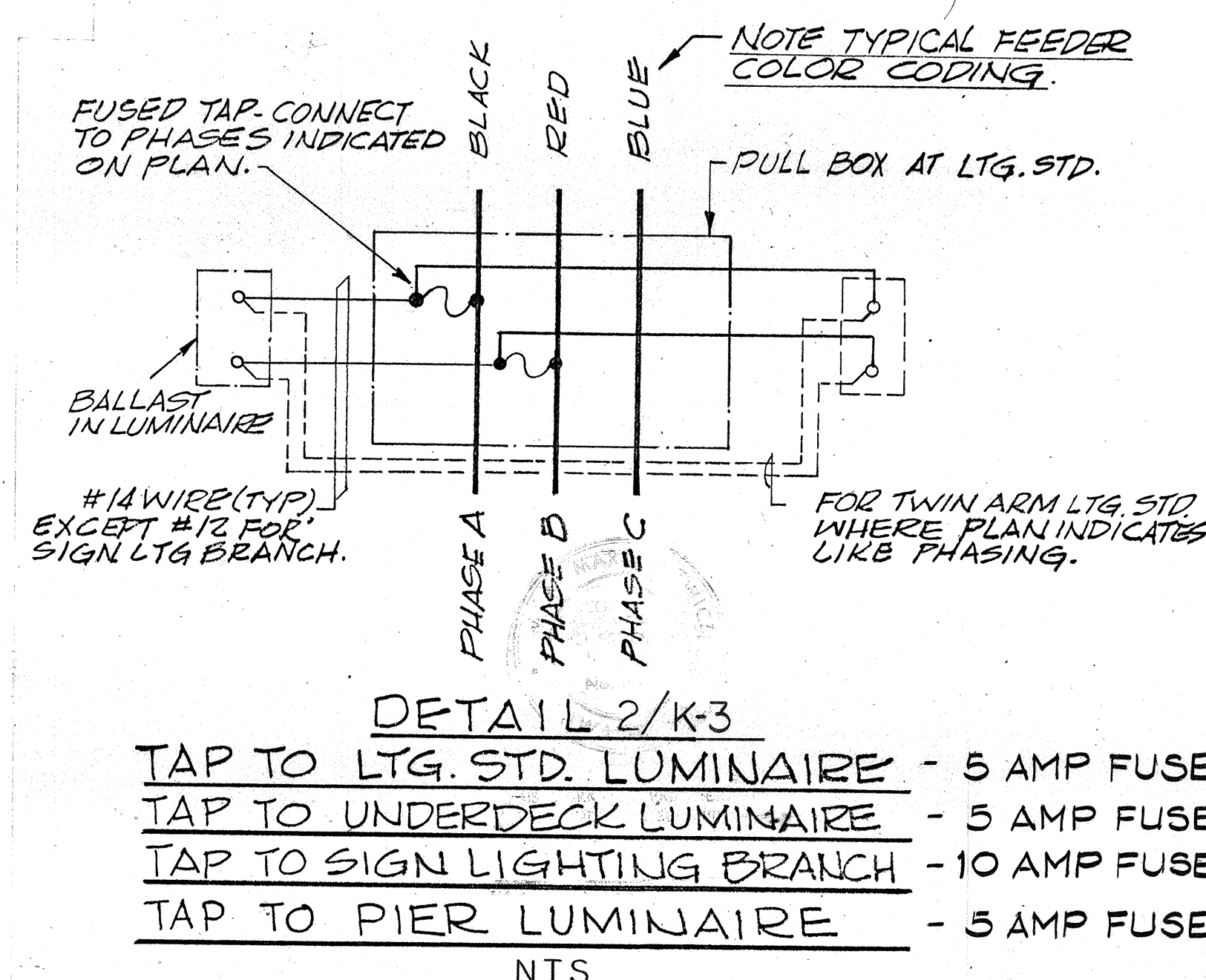
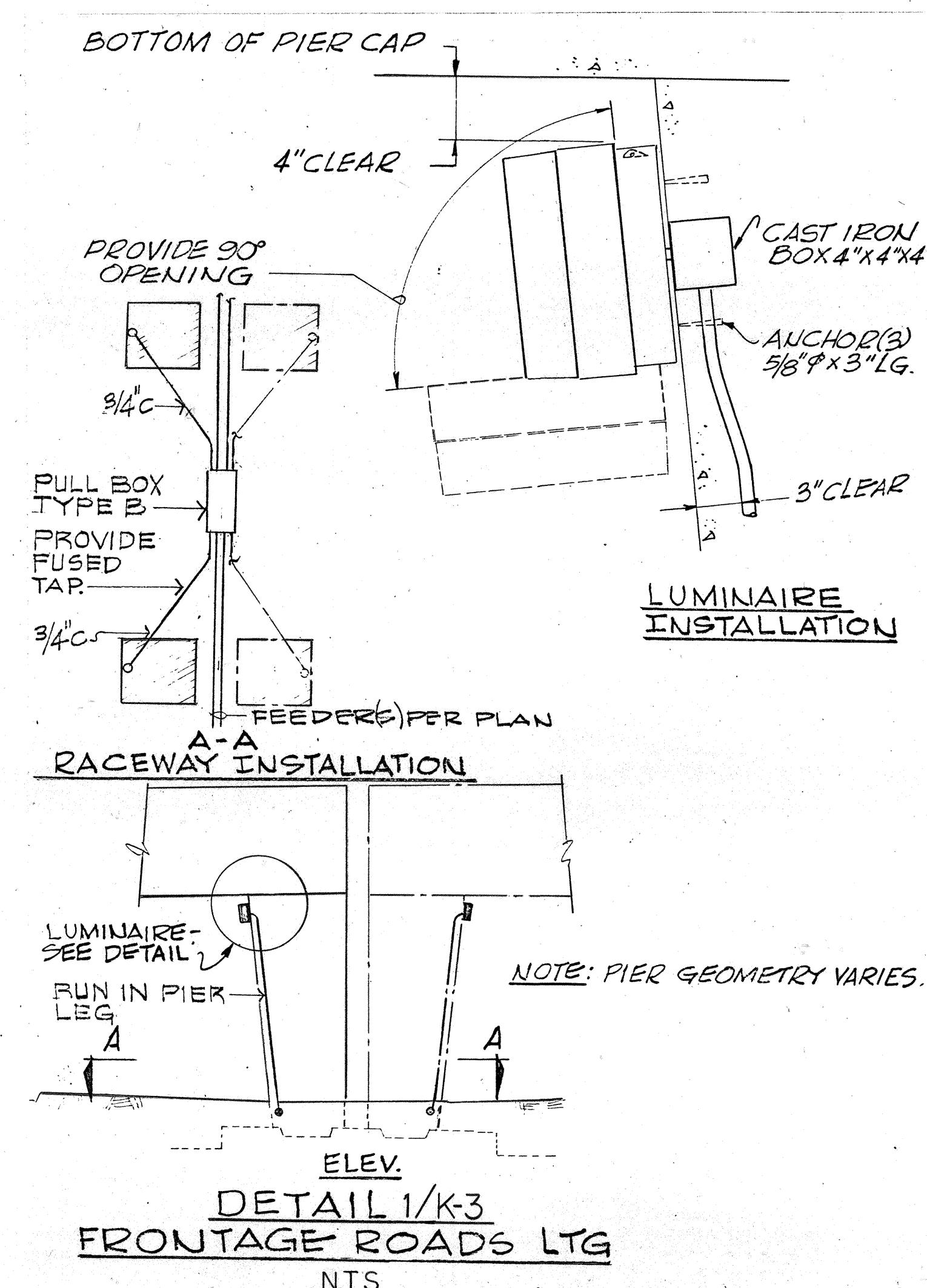
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(84):16	1978	405	466



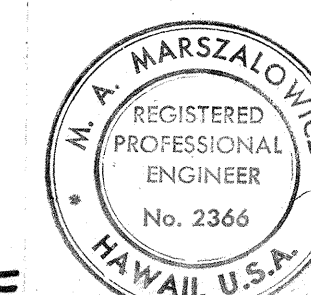
NOTES: 1. EXISTING FACILITIES SHOWN DASHED.
2. EXISTING AERIAL CONDUCTORS AND SPAN WIRES SHALL BE ADJUSTED AS REQUIRED FOR THE CONSTRUCTION OF THE VIADUCT. PAYMENT FOR THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.



DETAIL 3/K-3
DIAGRAM OF CONNECTIONS-AT GRADE LIGHTING
NOTE: EXISTING FACILITIES SHOWN DASHED-N.T.S.



DETAIL 2/K-3
TAP TO LTG. STD. LUMINAIRE - 5 AMP FUSE
TAP TO UNDERDECK LUMINAIRE - 5 AMP FUSE
TAP TO SIGN LIGHTING BRANCH - 10 AMP FUSE
TAP TO PIER LUMINAIRE - 5 AMP FUSE
N.T.S.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
M.A. Marszalowicz

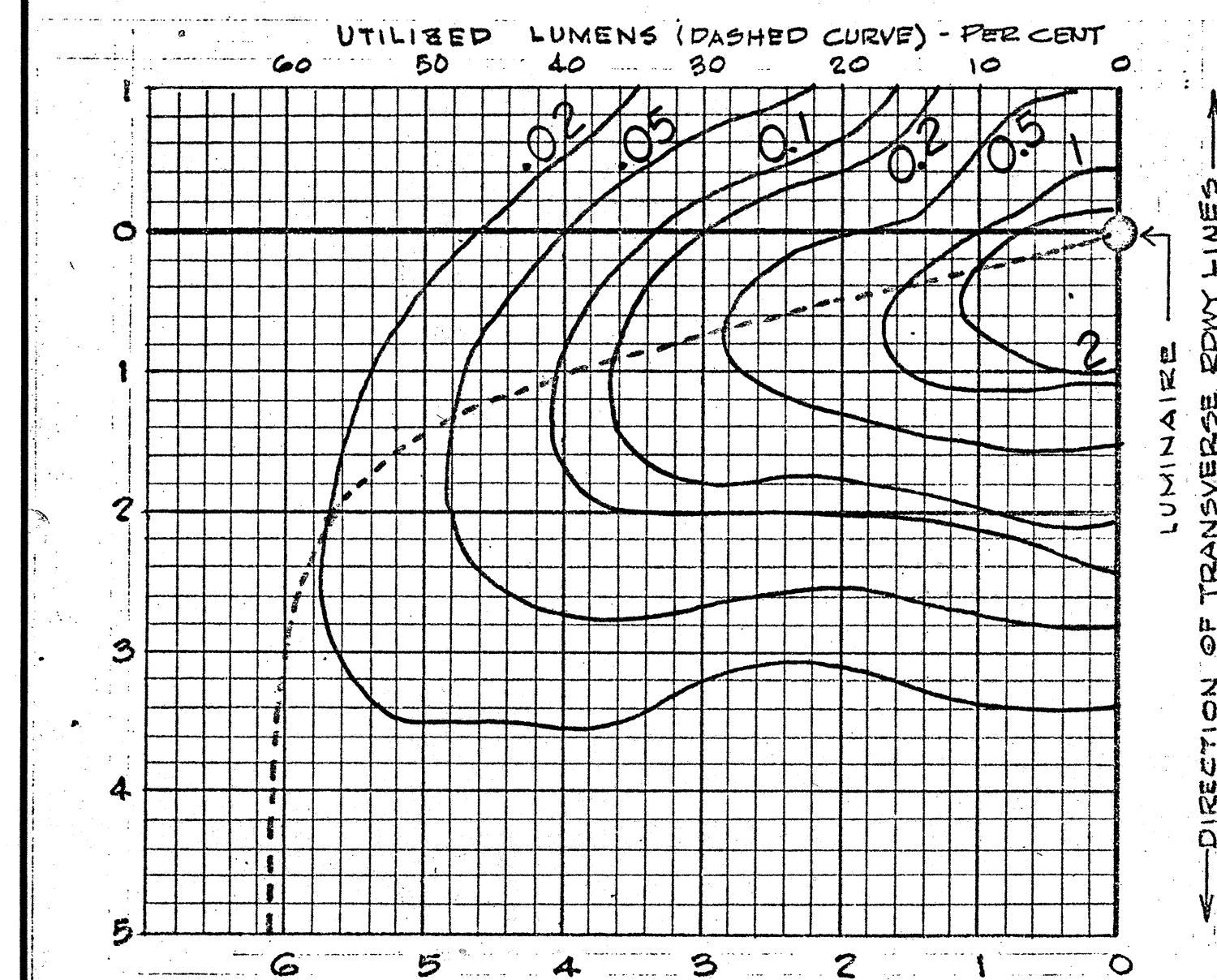
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
AT GRADE LIGHTING PLAN
AND DETAILS
(AT INTERSECTION OF LAGOON DR & NIMITZ HWY)
INTERSTATE ROUTE H-1
PROJECT NO. I-H-1(84):16
SCALE: AS SHOWN DATE: MAY 16, 1978
SHEET No. K-3 OF K-5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI(84):16	1978	406	466

NOTES :

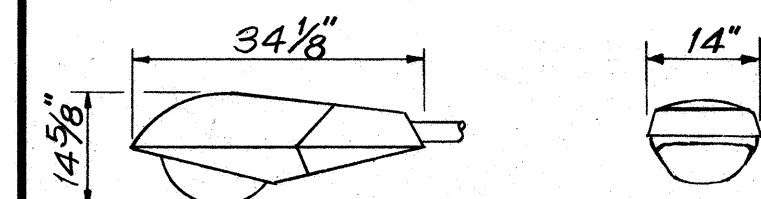
1. ISOFOOTCANDLE DISTRIBUTION IN RIGHT HAND QUADRANT IS AS SHOWN FOR LEFT QUADRANT, EXCEPT WHERE SHOWN OTHERWISE.

2. LIGHT DISTRIBUTION ABOVE THE HORIZONTAL SHALL NOT EXCEED $1\frac{1}{2}\%$ OF BARE BULB LUMENS ON THE STREET SIDE AND 1% ON THE HOUSE SIDE.

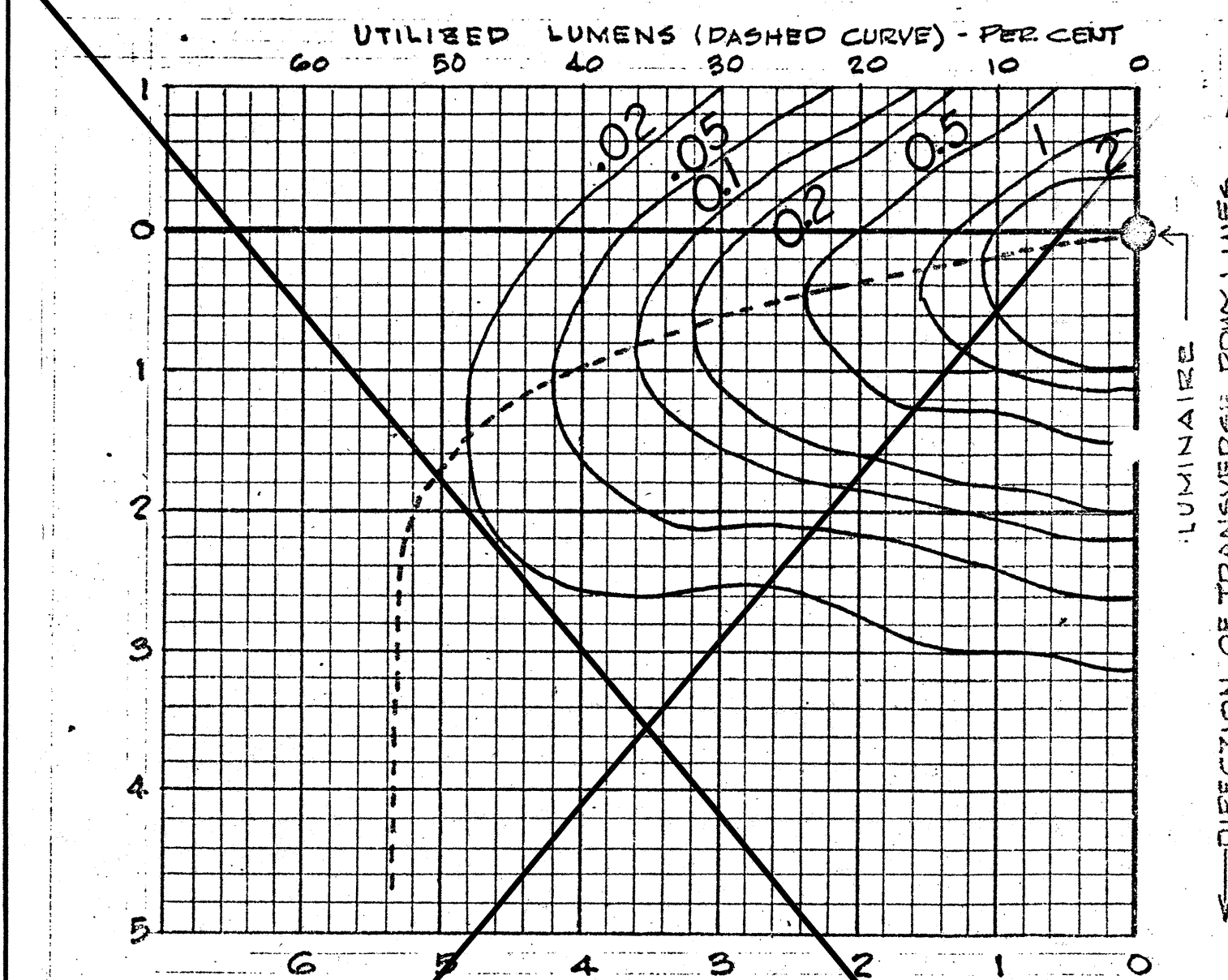


— DIRECTION OF LONGITUDINAL RDWY LINES —
ISOFOOTCANDLE & UTILIZATION CURVES
LUMINAIRE TYPE

L4-W (SYMBOL: )
DATA BASED ON 400-WATT HPS 50,000-LUMEN LAMP @ 45° MTG.
PROVIDE LAMP DESIGNATION LU400/BD.



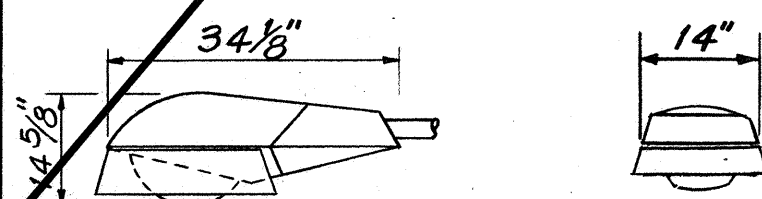
DETAIL 1/K-4



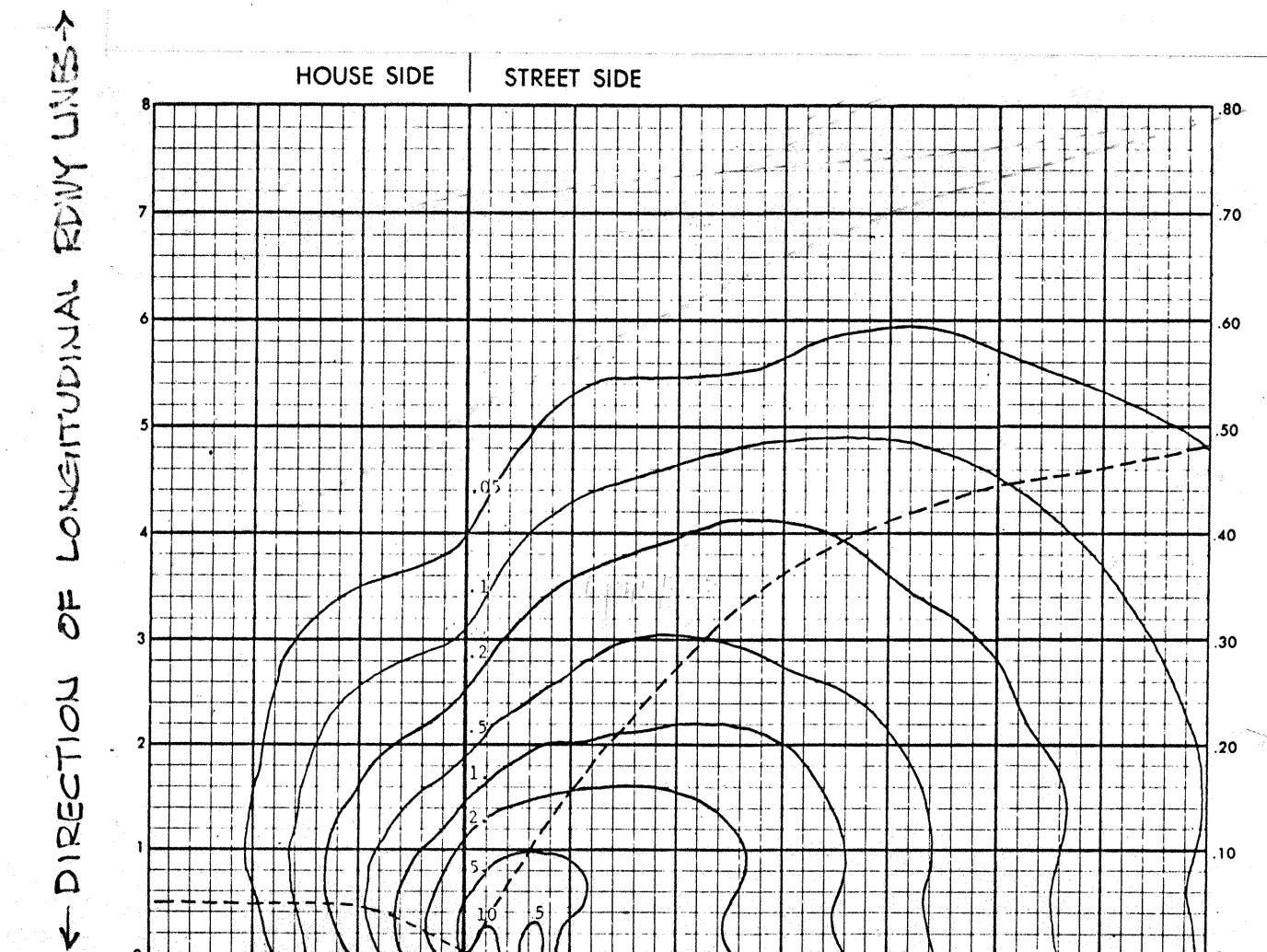
— DIRECTION OF LONGITUDINAL ROAD LINES —
ISOFOOTCANDLE & UTILIZATION CURVES
LUMINAIRE TYPE

L4-W-S (SYMBOL: LS)

DATA BASED ON 400-WATT HPS 50,000-LUMEN LAMP @ 45' MTG.
PROVIDE LAMP DESIGNATION LU400/BD

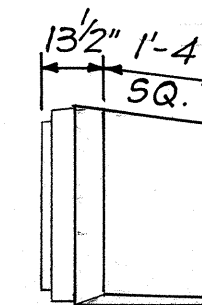


DETAIL 2/E5

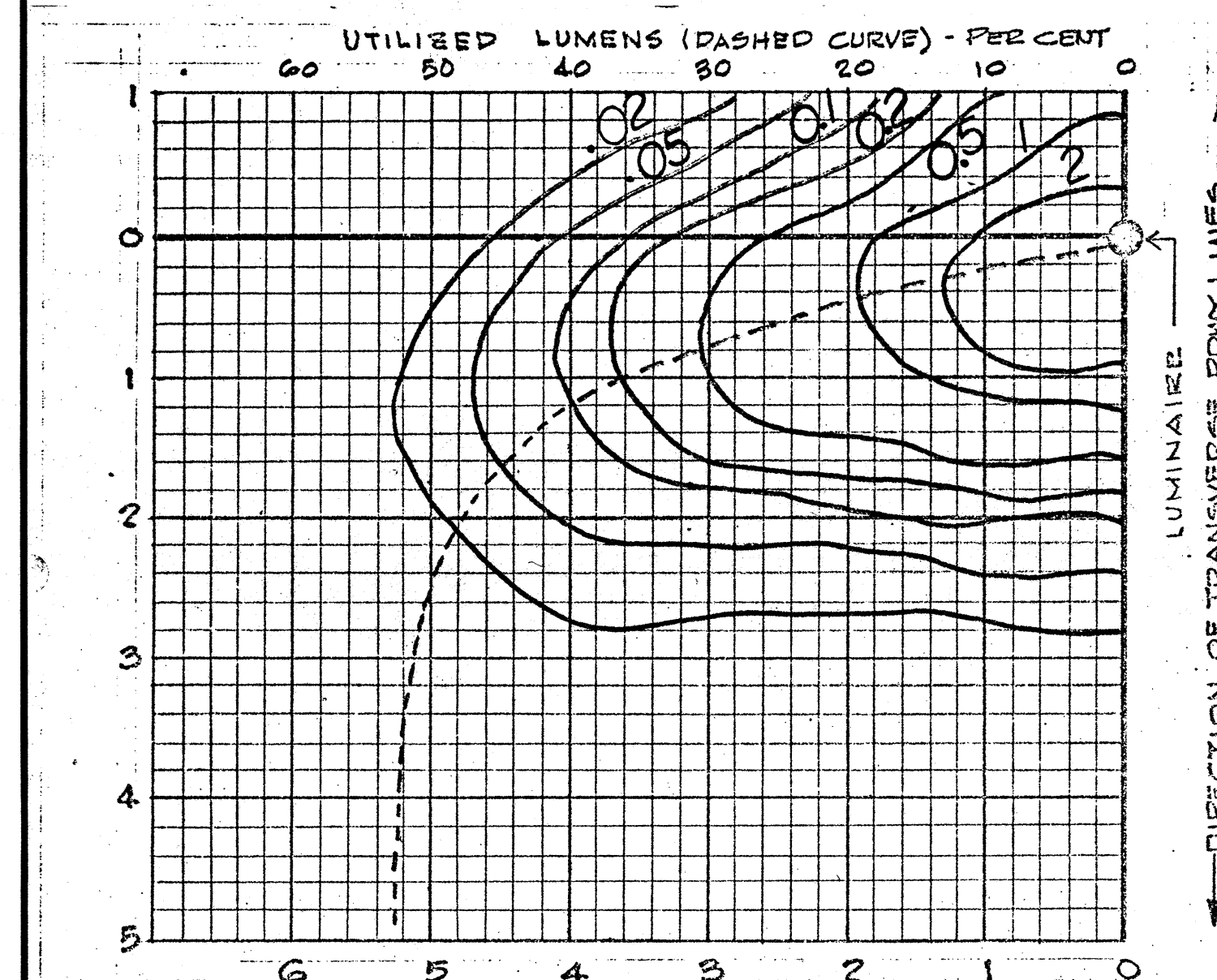


↑ LUMINAIRE
← DIRECTION OF TRANSVERSE RDWY LINES →
ISOFOOTCANDLE & UTILIZATION CURVES
LUMINAIRE TYPE

P-12-5 (SYMBOL: Δ)
DATA BASED ON 250-WATT H.P.S. 25,500-LUMEN LAMP AT 15' MTG.
PROVIDE LAMP DESIGNATION LU250/BD/S.
PROVIDE SHIELD ON SIDE OF APPROACHING TRAFFIC.
NOTE: FOR 30,000-LUMEN LAMP MULTIPLY ISOFOOTCANDLE VALUES BY 1.18.



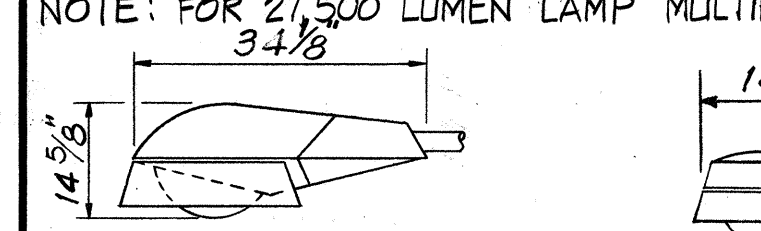
DETAIL 3/K-4



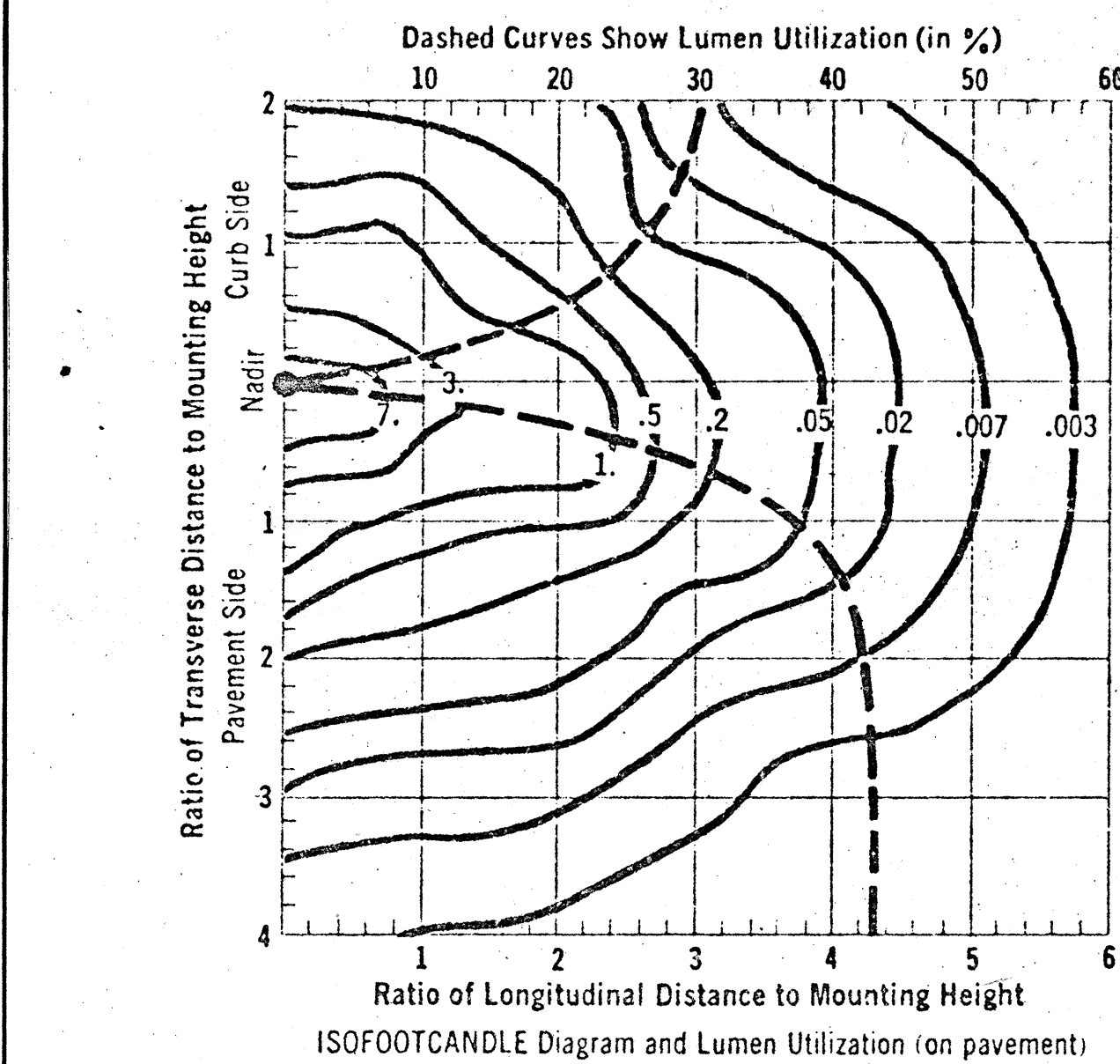
— DIRECTION OF LONGITUDINAL RDWY LINES —
ISOFOOTCANDLE & UTILIZATION CURVES
LUMINAIRE TYPE

L 2-W-S (SYMBOL: )

DATA BASED ON 250-WATT HPS 25,500 LUMEN LAMP @ 30' MTG
PROVIDE LAMP DESIGNATION LU 250/BD.
NOTE: FOR 27,500 LUMEN LAMP MULTIPLY 150 FOOT CANDLE VALUES BY 1.08

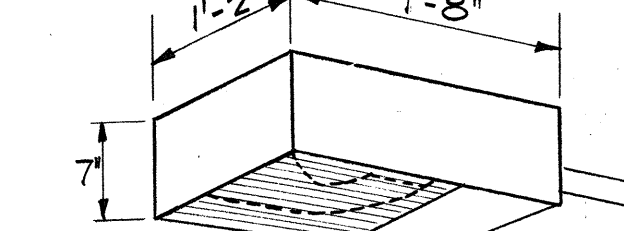


DETAIL 4/K-4

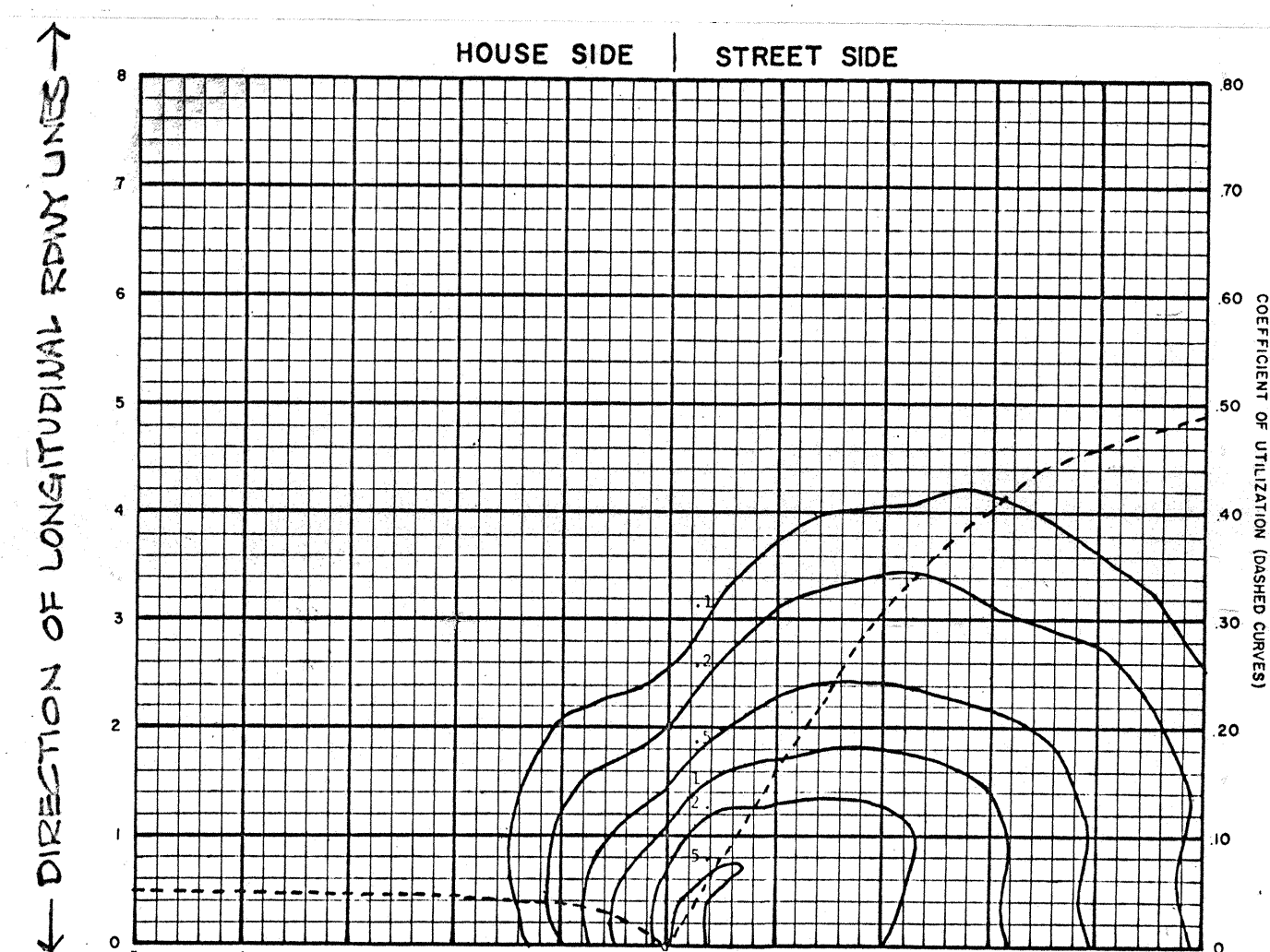


ISOFOOTCANDLE & UTILIZATION CURVES
LUMINAIRE TYPE

LUMINAIRE TYPE
U-L2 (SYMBOL: )
DATA BASED ON 250-WATT HPS 25,500 LUMEN LAMP @ 25' MTG.
PROVIDE LAMP DESIGNATION LU 250/BD.
NOTE: FOR 27,500 LUMEN LAMP MULTIPLY 150 FOOT CANDLE VALUES BY 1.08



DETAIL 5/K-4

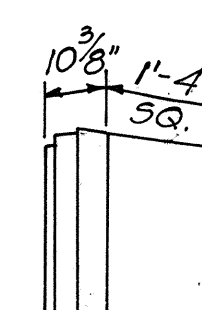


← DIRECTION OF TRANSVERSE RDWY LINES →

ISOFOOTCANDLE & UTILIZATION CURVES

LUMINAIRE TYPE

B-L1 (SYMBOL: Δ)
DATA BASED ON 150-WATT H.P.S. 10,000-LUMEN LAMP @ 15' MTG.
PROVIDE LAMP DESIGNATION LU150/BD.



DETAIL 6/K-4



THIS WORK WAS PREPARED BY

ME OR UNDER MY SUPERVISION
M. A. Marzaton

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>LIGHTING DETAILS</u> INTERSTATE ROUTE H-1 PROJECT NO. I-HI-1 (84) :16 SCALE : NONE DATE : MAY 16, 1978 SHEET No. K-4 OF K-5 SHEETS	