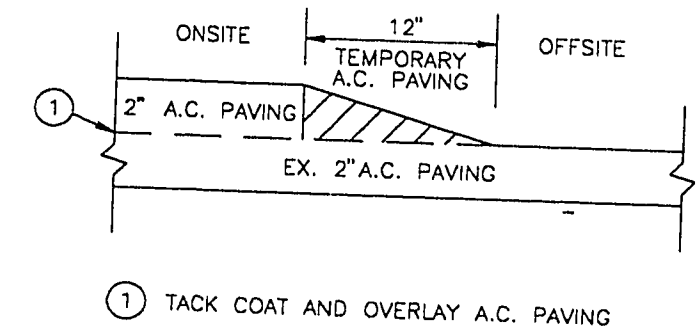
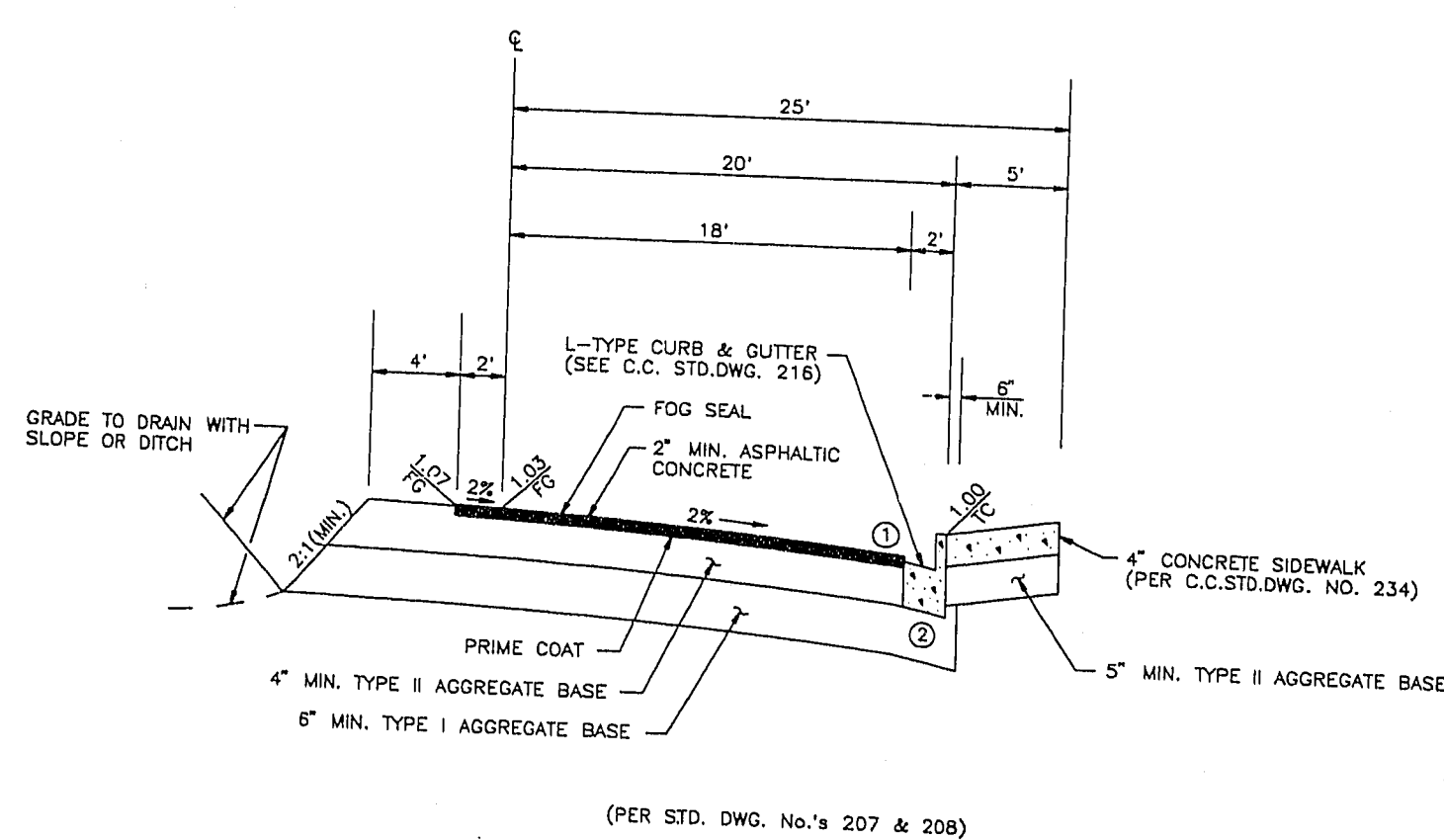
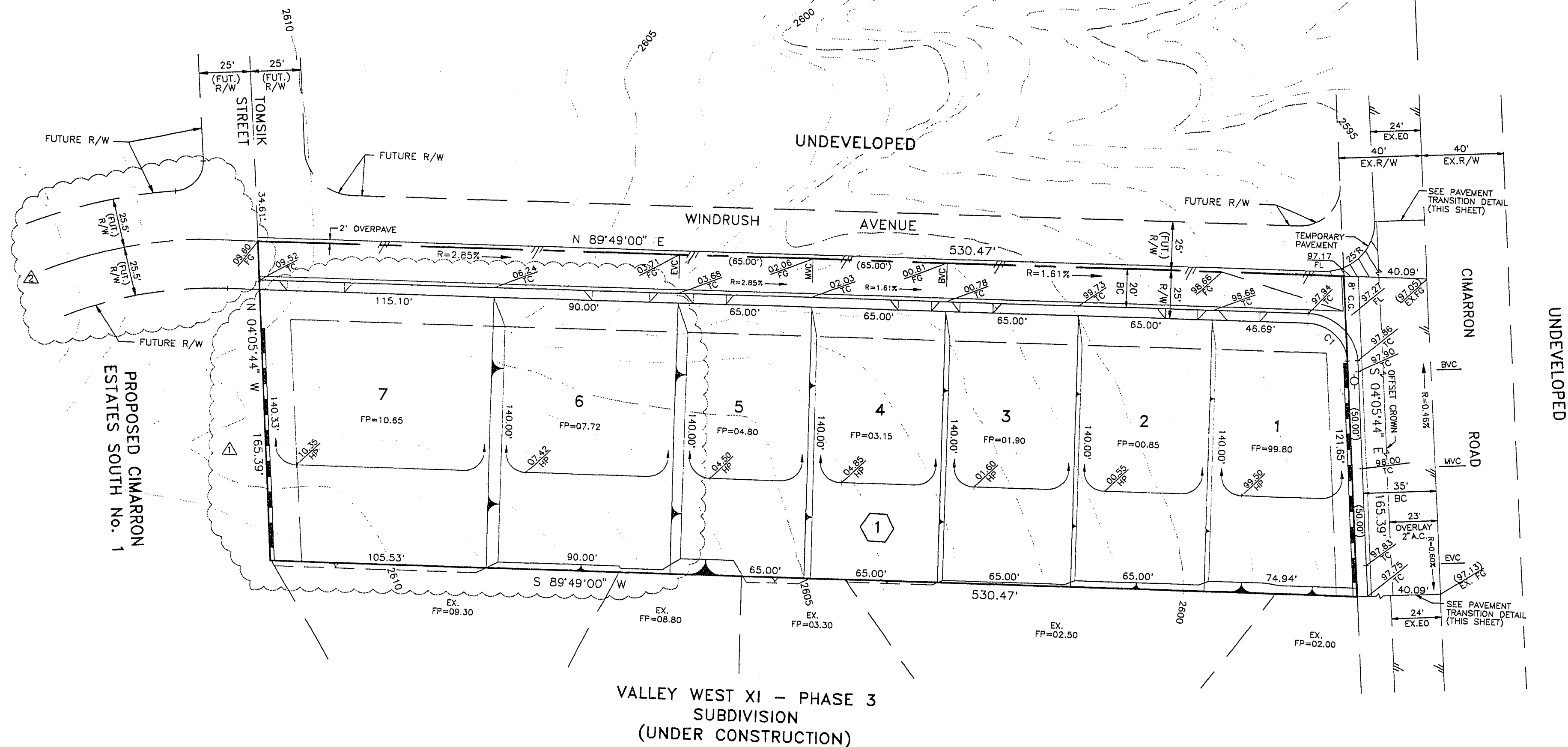




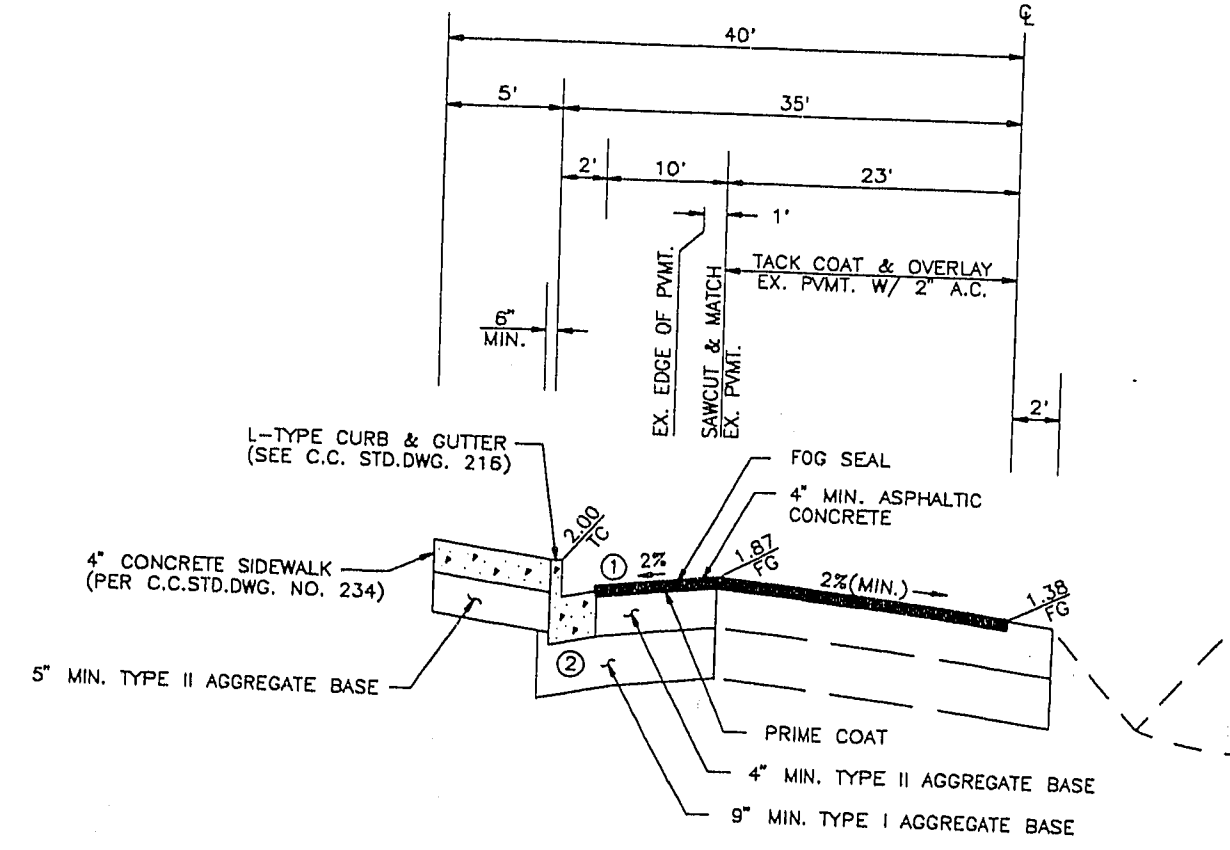
PAVEMENT TRANSITION DETAIL
NO SCALE

LEGEND

- BC BACK OF CURB
- BVC BEGIN VERTICAL CURVE
- C.G. CROSS GUTTER
- EO EDGE OF OIL
- EVC END VERTICAL CURVE
- EX. EXISTING
- FF FINISH FLOOR
- FG FINISH GRADE
- FP FINISH PAD
- (FUT.) FUTURE
- GB GRADE BREAK
- HP HIGH POINT
- MVC MIDPOINT OF VERTICAL CURVE
- R/W RIGHT-OF-WAY
- R=0.40% ROAD GRADIENT
- S=0.0040 RATE OF SLOPE
- TC TOP OF CURB
- EDGE OF PAD
- LOT NUMBER
- SCARP
- SWALE
- BLOCK WALL
- EX. POWER POLE



1/2 STREET SECTION 50' R/W
(NO SCALE)



1/2 STREET SECTION 80' R/W
(NO SCALE)

FINISH FLOOR EQUATION

FINISH FLOOR = FINISH PAD + 0.8'

CURVE TABLE

CURVE	RADIUS	DELTA	LENGTH	TANGENT
51	20.00'	86°05'18"	30.05'	18.68'

EARTH MOVING ESTIMATE

	CUT	FILL
WINDRUSH AVENUE	568 C.Y.	2 C.Y.
CIMARRON ROAD	130 C.Y.	0 C.Y.
BUILDING PADS	334 C.Y.	2133 C.Y.
TOTAL CUT	1032 C.Y.	2135 C.Y.
LESS 10% SHRINKAGE	103 C.Y.	333 C.Y.
TOTAL ADJUSTED CUT	929 C.Y.	2468 C.Y.
IMPORT	= 1539 C.Y.	



OWNER/DEVELOPER

RAYMOND H. WILLS & BARBARA D. WILLS
7101 ALTA DRIVE
LAS VEGAS, NEVADA 89128
TELE: (702) 363-6113

BENCH MARK

US & GS DATUM 5/8" REBAR LOCATED
75 FEET NORTH AND 100 FEET EAST OF
CENTERLINE INTERSECTION OF CIMARRON
ROAD AND DEL RAY AVENUE.
ELEVATION = 2593.92

BASIS OF BEARING

N 89°49'00" E BEING THE NORTH LINE OF
SECTION 4, TOWNSHIP 21 SOUTH, RANGE 80
EAST AS SHOWN ON RECORD OF SURVEY
FILE 20, PAGE 44, CLARK COUNTY, NEVADA
RECORDS

NOTICE TO CONTRACTOR:

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY DRAWINGS. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON PLANS.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD OR UNDERGROUND POWER, GAS AND/OR OTHER UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COSTS AND LIABILITY IN CONNECTION THEREWITH.
- AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS & VALLEY GUTTERS AFTER COMPACTION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY A CITY INSPECTOR.
- ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY ETC TESTING LABORATORIES, INC. REPORT NO. 11059 DATED JANUARY 30, 1991 AND APPROVED BY THE CITY ENGINEER.
- ALL HIGHPOINT (HP) GRADES SHOWN HEREON ARE TO ROUGH GRADE ONLY AND ARE 0.3 FEET LOW TO ALLOW FOR LANDSCAPING.
- ALL LOTS ARE TO BE F.H.A. TYPE DRAINAGE UNLESS OTHERWISE NOTED.
- THE QUANTITIES SHOWN HEREON ARE ESTIMATES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

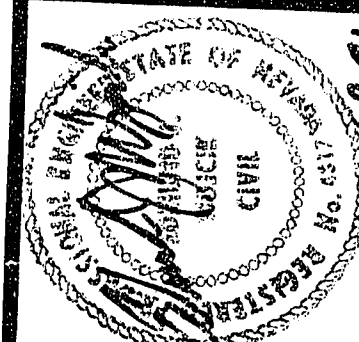
NOTE:

POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO THE CITY OF LAS VEGAS.

ENGINEER'S CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT.

EDMUND J. WOJCIK, P.E.
DATE 6-9-91



E.J. WOJCIK ENGINEERING
CIVIL ENGINEERING CONSULTANT
620 South 11th Street, Suite 7
Las Vegas, Nevada 89101
Edmund J. Wojcik, P.E.
(702) 366-1322

WINDRUSH ESTATES
(REVISED)
GRADING PLAN

(V) SCALE: 1"=40'

(H) SCALE: 1"=40'

J.N. : 901101

DRAWN BY: DPL

CHECKED BY: EJW

SHEET NO. :

2 OF 4

107Y-4180