

CLV GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LVVWD SPECIFICATIONS AND THE "UNIFORM STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE, SUMMERLIN IMPROVEMENT STANDARDS AS APPROVED BY C.L.V. ON 2/2/93, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY AND COUNTY CODES AND ORDINANCES APPLICABLE.
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS, EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE 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 COST AND LIABILITY IN CONNECTION THEREWITH.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
- TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 PSI, MIN. 28 DAYS MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION PRIOR TO USE ON THE PROJECT.
- PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
- EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 150' IN EXTRUDED TYPE CURB, PER SUMMERLIN STDS.
- AC PAVEMENT TO BE 1/2 INCH ABOVE LIP OF ALL CUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.
- APPLY FOG SEAL ONLY AFTER ALL CORRECTIONS AND ADJUSTMENTS HAVE BEEN MADE.
- CURB & GUTTER WITH A GRADE LESS THAN FIVE TENTHS OF ONE PERCENT FOR "L" TYPE CURB AND SIX TENTHS OF ONE PERCENT FOR 30" ROLL TYPE CURB SHALL BE WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED.
- SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER SUMMERLIN STANDARD DRAWINGS NO. S-75 & S-77. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
- 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 NEW CONSTRUCTION. THE 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 THE SOILS ENGINEER AND APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
- EXACT LOCATION OF ALL SAW CUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS INSPECTOR IF THEIR LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION RELOCATION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH NRS. STATUTE NO. 625.550.
- UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC. SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOW LINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY CO. AND THE CITY ENGINEER.
- WALL NOTES:
 - ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN FOR THE PURPOSE OF GRADING RELATIONSHIPS.
 - THE STRUCTURAL AND ARCHITECTURAL DESIGN OF ALL WALLS (RETAINING OR NON-RETAINING) MUST BE APPROVED BY THE CLV-BUILDING DEPARTMENT/
- ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT.

SUPPLEMENTAL NOTES

- CONCRETE FLOOR SLABS SHALL BE 6" THICK CONCRETE REINFORCED WITH #4'S AT 12" O.C., U.N.O.
- BOTTOM OF FOOTINGS SHALL BEAR AGAINST STRUCTURAL FILL AS DIRECTED BY THE SOILS ENGINEER.
- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR NO. 2, GRADE STAMPED BY A MEMBER OF THE WESTERN WOOD PRODUCT ASSOCIATION.
- PLYWOOD SHALL BE DOUGLAS FIR, AMERICAN PLYWOOD ASSOCIATION STRUCTURAL II, C-C, EXTERIOR TYPE OR ORIENTED STRAND BOARD (OSB) RATED SHEATING.
- ALL CMU WALLS AT THIS LEVEL SHALL BE 8" CMU REINFORCED WITH #5'S AT 32" OC VERT (TYP., UNO). PLACE VERTICAL REINFORCING IN SAME CELLS AS FOOTING DOWELS. SOLID GROUT ALL CELLS.

BASIS OF BEARING

NORTH 89°59'09" EAST, BEING THE BEARING OF THE CENTERLINE OF W. CHARLESTON BLVD., SHOWN BY MAP THEREOF ON FILE IN BOOK 80, PAGE 14 OF PLATS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

RIVET AND PLATE IN TOP OF CURB, NE RETURN OF CHARLESTON BLVD. AND HUALAPAI WAY. (NO. 0LV09-36SES)

2909.769 NGVD 1929 DATUM
2912.23 NAVD 1988 DATUM (887.6503 M)
*2910.05 SUMMERLIN DATUM
*THIS PROJECT BASED ON SUMMERLIN DATUM

ESTIMATE OF QUANTITIES (PUBLIC)

STREET IMPROVEMENTS:

2" A.C. PAVEMENT WITH 4" TYPE 2 GRAVEL BASE	10250	SY
30" ROLL TYPE CURB & GUTTER	6580	LF
4' CONCRETE SIDEWALK WITH 4" TYPE 2 GRAVEL BASE	11050	SF
CONCRETE DRIVEWAY WITH 8" TYPE 2 GRAVEL BASE	4704	SF
8' CONCRETE VALLEY GUTTER	2610	SF

ONSITE WATER:

STD. FH WITH 6" GATE VALVE & 6" P.V.C. LAT.	6	EA
6" P.V.C. WATER	2385	LF
8" P.V.C. WATER	960	LF
8" GATE VALVE WITH VALVE BOX AND COVER	2	EA
12" x 8" TAPPING SLEEVE & VALVE	1	EA
6" GATE VALVE WITH VALVE BOX & COVER	14	EA
6' x 6' TEE	6	EA
1" SERVICE LATERALS	93	EA
6" x 6" TEE	3	EA
METER BOX	93	EA
8" 11 1/4" BENDS	1	EA
5/8" METER (UDACS PLATE 1B)	93	EA
6" 22 1/2" BENDS	1	EA
2" BLOW-OFF ASSEMBLY	2	EA
6" 90° BENDS	1	EA
8" 22 1/2" BENDS	1	EA

ONSITE SEWER:

STANDARD MANHOLE (PUBLIC)	9	EA
8" P.V.C. SEWER (PUBLIC)	2733	LF
4" P.V.C. LATERAL (PUBLIC)	1735	LF

STREET LIGHTING:

100 W HPS LUMINAIRE WITH SUMMERLIN TYPE 3 CONCRETE POLE	22	EA
1 1/4" PVC CONDUIT	3460	LF
NO. 3 1/2 CONC. PULL BOX WITH METAL COVER	3	EA

MISCELLANEOUS:

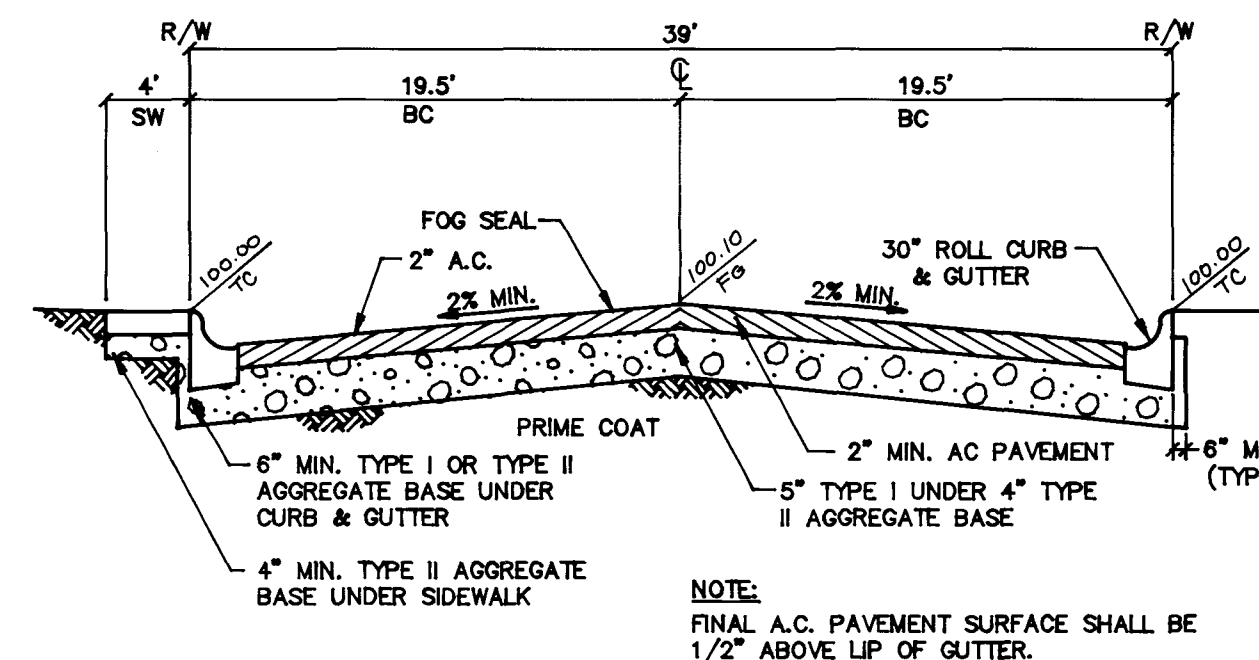
STOP SIGN	5	EA
6" D-3 STREET NAME SIGN	5	EA
9" D-3 STREET NAME SIGN	1	EA
END OF ROAD SIGN	2	EA
EXCAVATION (SEE SHEET 12)	34,400	CY
STORM DRAIN MANHOLES (60 DIA.)	3	EA
36" R.C.P. STORM DRAIN PIPE	183	LF
TYPE "A" DROP INLETS	2	EA
22" WIDE TYPE "A" DROP INLETS	2	EA
18" WIDE TYPE "A" DROP INLETS	1	EA

NOTE:

THE ABOVE QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE INTENDED TO ILLUSTRATE THE SCOPE OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT QUANTITIES INVOLVED.

CONSTRUCTION NOTES

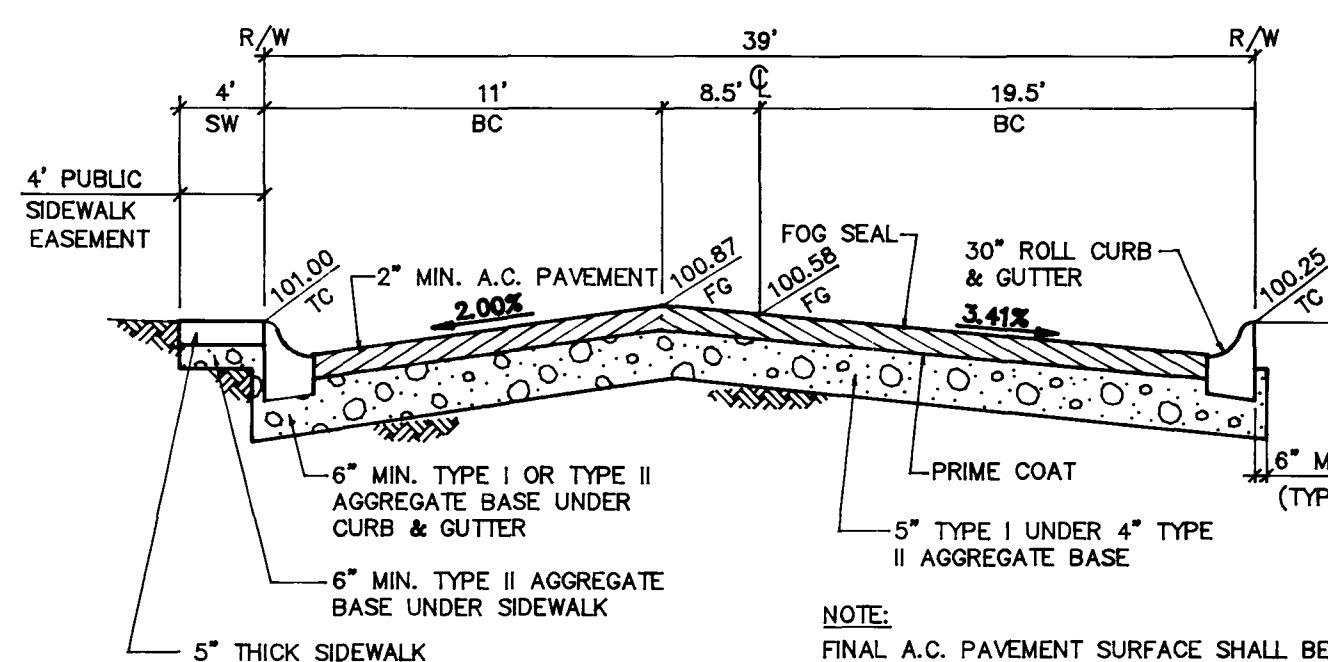
- ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL," MOST RECENT EDITION, PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF HIGHWAYS, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE ENGINEER.
- AT THE TIME OF PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL FURNISH, FOR APPROVAL, A TRAFFIC BARRICADING PLAN AND METHOD OF MAINTAINING PUBLIC CONVEYANCE AND SAFETY THROUGHOUT THE CONSTRUCTION AREA. TRAFFIC BARRICADING PLANS SHALL COMPLY WITH THE APPLICABLE PORTIONS OF SECTION 624 AND 625 OF THE STANDARD SPECIFICATIONS, THE TRAFFIC CONTROL MANUAL AND APPLICABLE CITY ORDINANCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES AS NOTED ON THE CONTRACT DRAWINGS, AND IN ACCORDANCE WITH SECTION 609 OF THE "STANDARD SPECIFICATIONS," AND ANY VERTICAL ADJUSTMENTS OF WATER VALVE BOXES AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS.
- NOTICE: GRADING AUTHORIZED ONLY AFTER PERMITTEE'S FULL COMPLIANCE WITH FEDERAL ENDANGERED SPECIES ACT.
- THE DESIGN GRADE (DG) INDICATED ON THESE PLANS IS FOR VERTICAL ELEVATION DESIGN CALCULATION PURPOSES AND DOES NOT NECESSARILY REPRESENT THE FINISH IMPROVEMENT GRADES ● CENTERLINE. (I.E. THRU MEDIAN AREAS). SEE STANDARD STREET SECTIONS ON SHEET 12.
- ALL EXISTING UTILITY CROSSING MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ANY MAIN LINES OR LATERALS THAT MAY BE ADVERSELY EFFECTED. ANY DISCREPANCIES IN LOCATION AND/OR ELEVATION MUST BE PROVIDED TO THE ENGINEER FOR ACCEPTANCE PRIOR TO CONSTRUCTION.



**TYPICAL 39' RESIDENTIAL STREET SECTION
BY DEVELOPER**

PER S.I.S. S-14

(NOT TO SCALE)



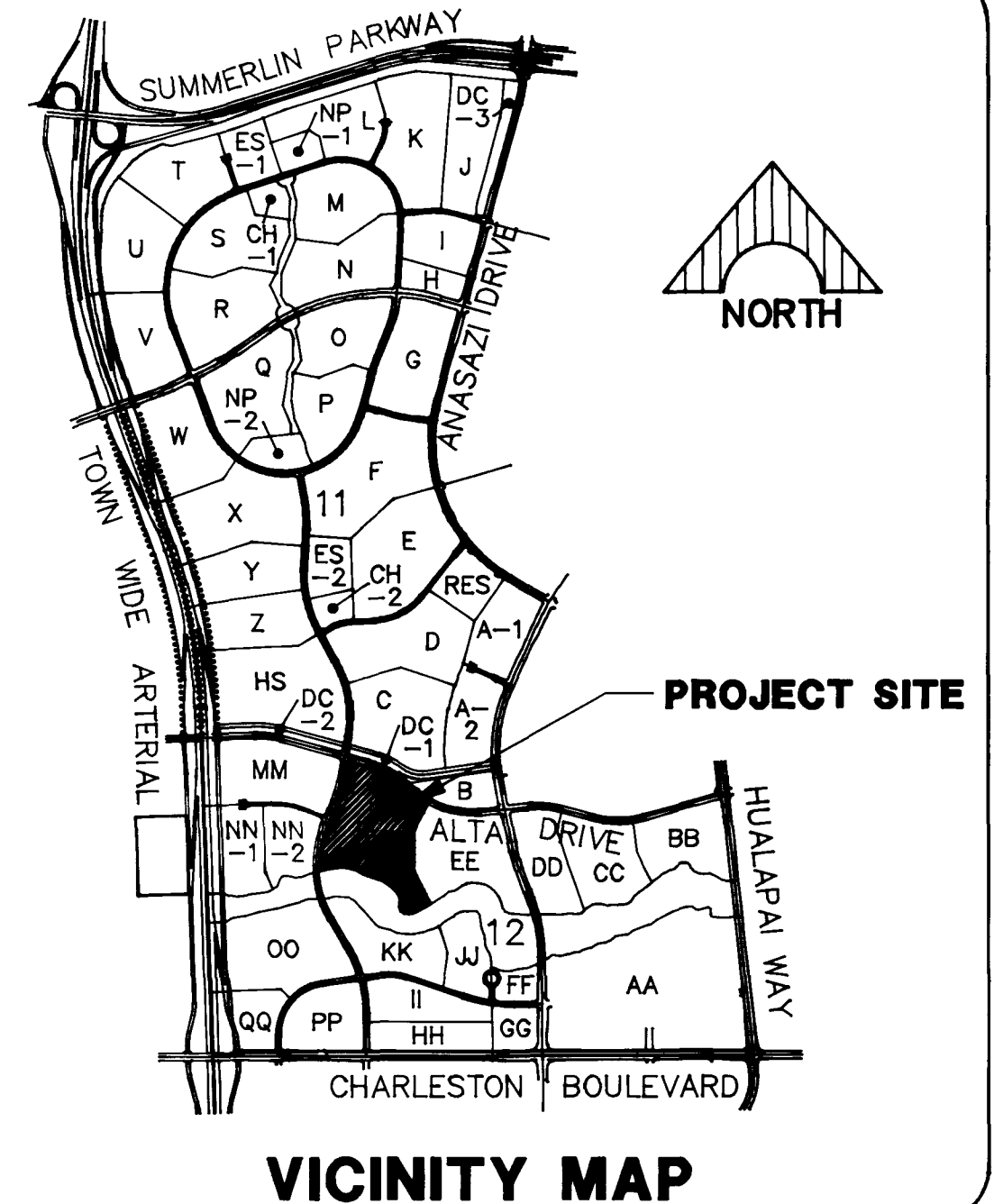
**TYPICAL 39' OFFSET CROWN SECTION
BY DEVELOPER (PUBLIC)**

DEVIATION FROM S.I.S. S-15

(NOT TO SCALE)

DEVIATION FROM STANDARDS

- CENTERLINE RADIUS - S.I.S. DC-1
BALSAM CREEK AVENUE
JOE WILLIS STREET
- OFFSET CROWN STREET SECTION - S.I.S. S-15
ALL INTERIOR STREETS
(BIANCA BAY STREET, BALSAM CREEK, NEW BORO AVENUE & SPRUCEDALE AVENUE)
JOE WILLIS STREET (PORTION)
(STREET WIDTH 39.00 FEET AND OFFSET CROWN 8.50 FEET)
DEVIATING FROM S-15-40.00' R.O.W.
- GRADE INTO CROSS GUTTERS
BALSAM CREEK AVENUE, SPRUCEDALE AVENUE
AND NEW BORO AVENUE.



INDEX OF DRAWINGS

- COVER SHEET
- INDEX, QUANTITIES AND MISC.
- UTILITY PLAN I
- UTILITY PLAN II
- BIANCA BAY STREET
- BALSAM CREEK AVENUE
- SPRUCEDALE AVENUE
- NEW BORO AVENUE
- JOE WILLIS STREET
- GRADING PLAN I
- GRADING PLAN II
- MISCELLANEOUS GRADING DETAILS

SUMMERLIN APPROVAL

Gerald M. Robbins
GERALD M. ROBBINS

6/10/97
DATE

CLV APPROVAL

APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHTS-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATED FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS" THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATIONS FROM STANDARDS" IN FAVOR OF THE UNIFORM STANDARDS DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA.

CLV Engineer
CLV ENGINEER

9/11/97
DATE

DeLUNA, INC.
ENGINEERING • PLANNING • SURVEYING
7310 SMOKE RANCH RD., SUITE T, LAS VEGAS NEVADA 89128, (702) 255-6242

SHEET CONTENTS:
LEWIS HOMES OF NEVADA
GLENMERE NO. 2 - BY LEWIS HOMES
INDEX, QUANTITIES AND MISC.

SHEET
2
OF 12 SHEETS

$$10^{-1} \text{ g} = 0.1 \text{ g} = 0.1 \times 10^{-3} \text{ kg}$$