

[illegible]

REV NO.	DATE	DESCRIPTION		APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

"A" 850+00.00 TO "A" 858+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL

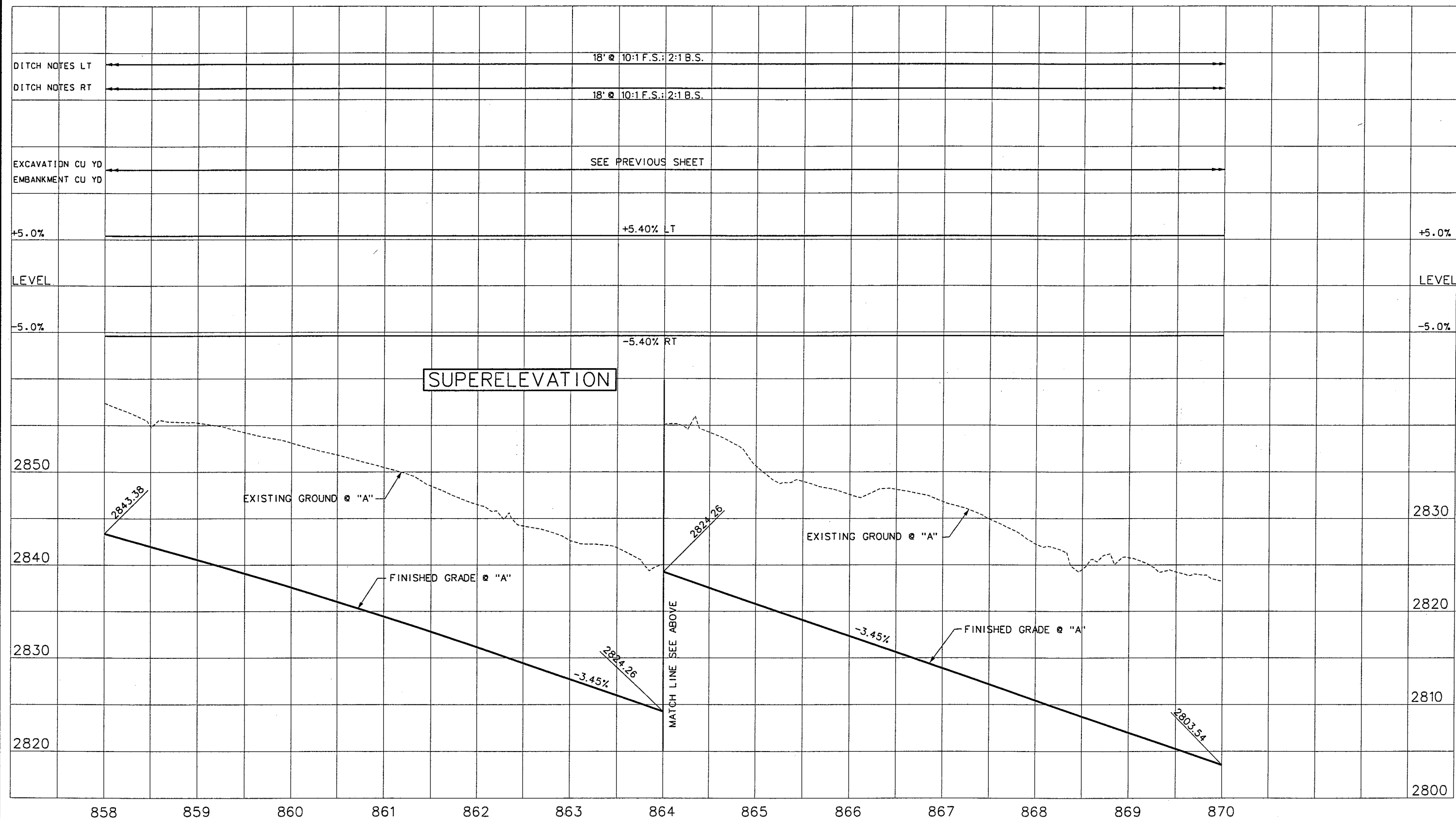


**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-7
OF
L-1695

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[illegible]

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 858+00.00 TO "A" 870+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

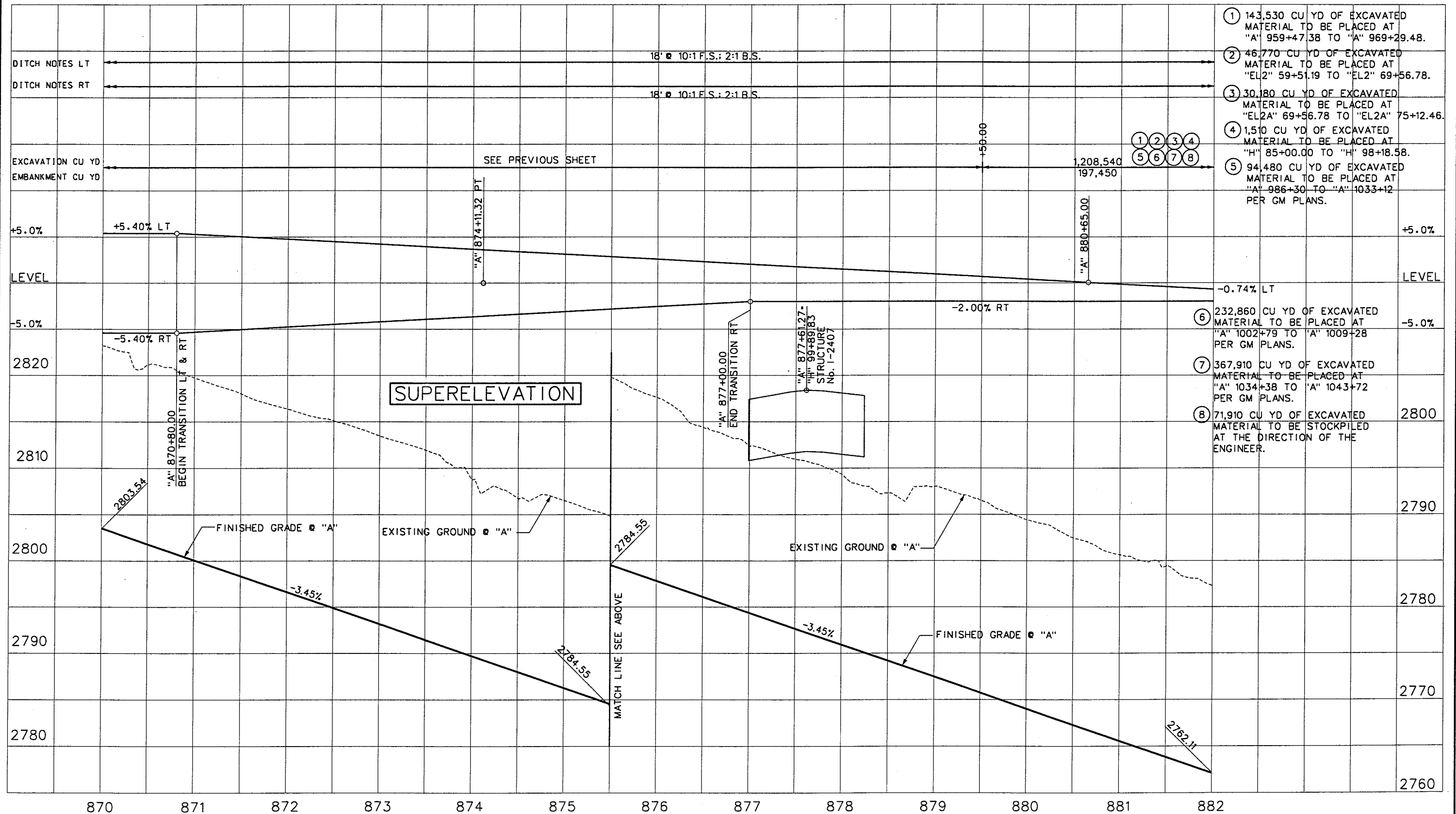
90%
PRELIMINARY
3-29-02

PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL

 **THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-8
OF
L-1695



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 870+00.00 TO "A" 882+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

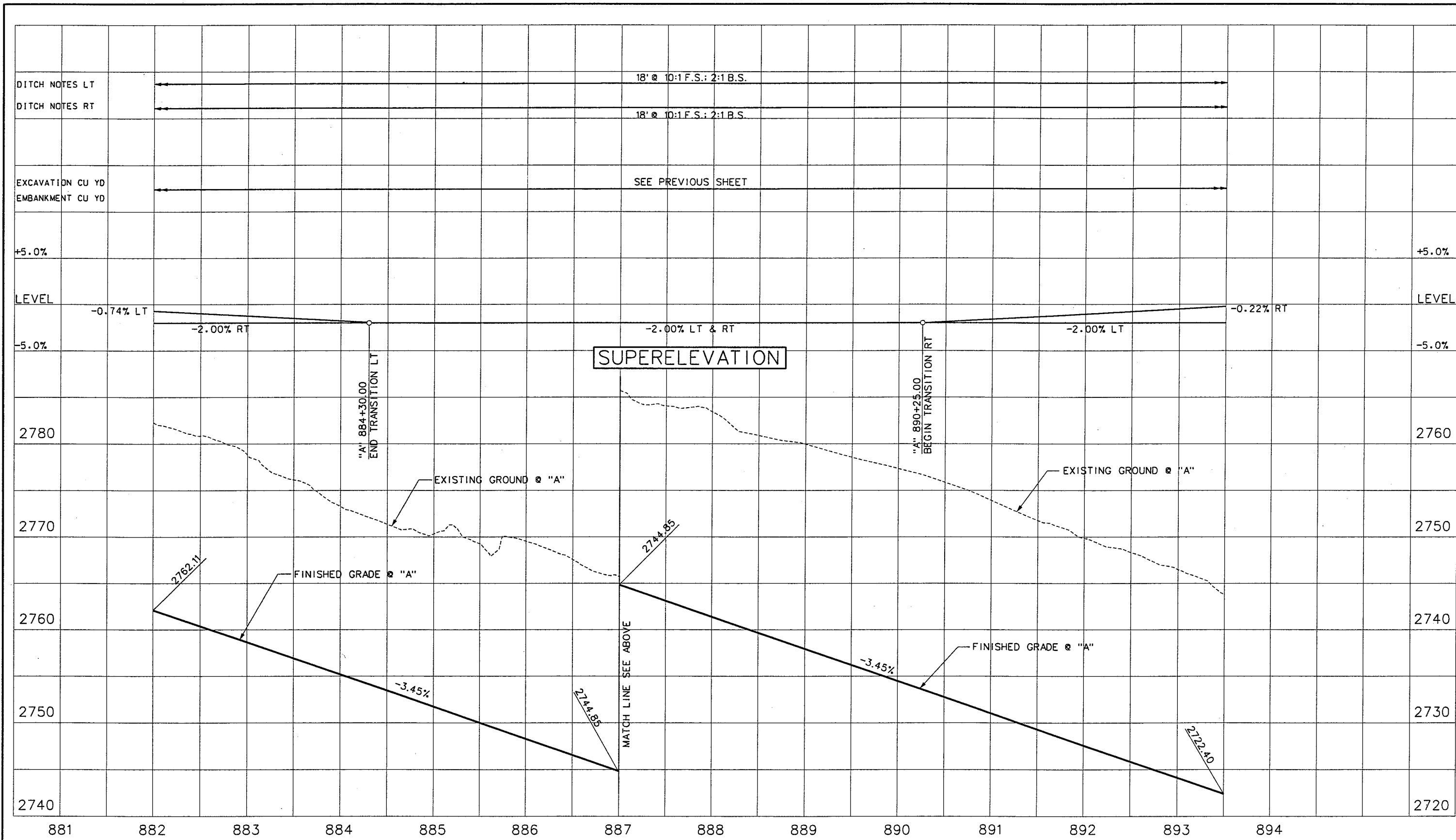
PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL

 **THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-9
OF
L-1695

REFERENCE FILE: \\c51-border.mst - 851-initial-profile.mst - 851-SUPERLEV.dgn - 851-pro-grid.mst - 851-SUPERLEV.dgn - 851-initial-profile.mst - 851-stamp.mst
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REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 882+00.00 TO "A" 893+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

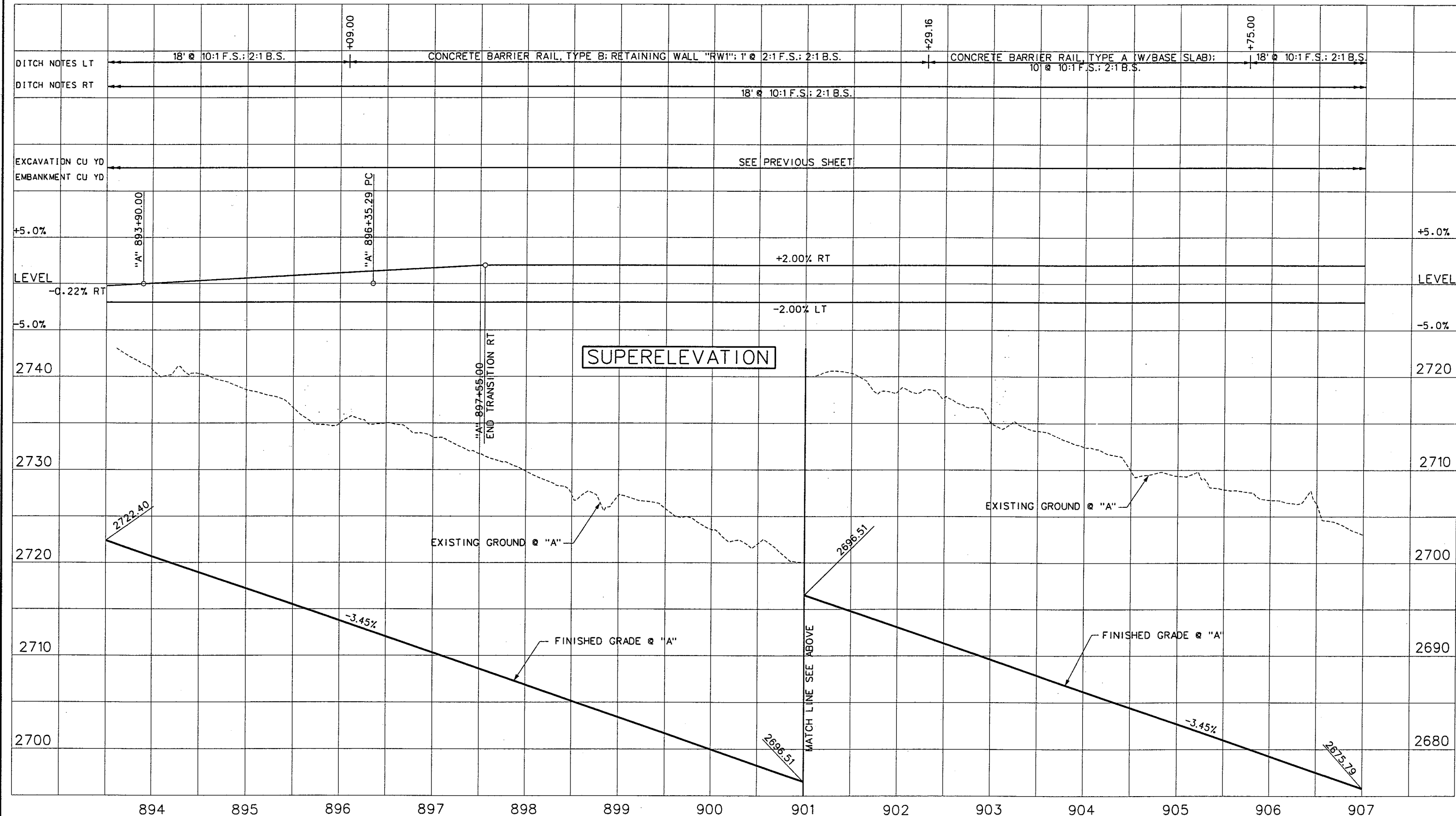
90%
PRELIMINARY
3-29-02

PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: AS SHOWN	P-10
VERT: AS SHOWN	OF
FIELD BOOK	L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-1-SUPERELEV.MST - 851-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-initial-profile.mst - 851-stamp.mst
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REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 893+50.00 TO "A" 907+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

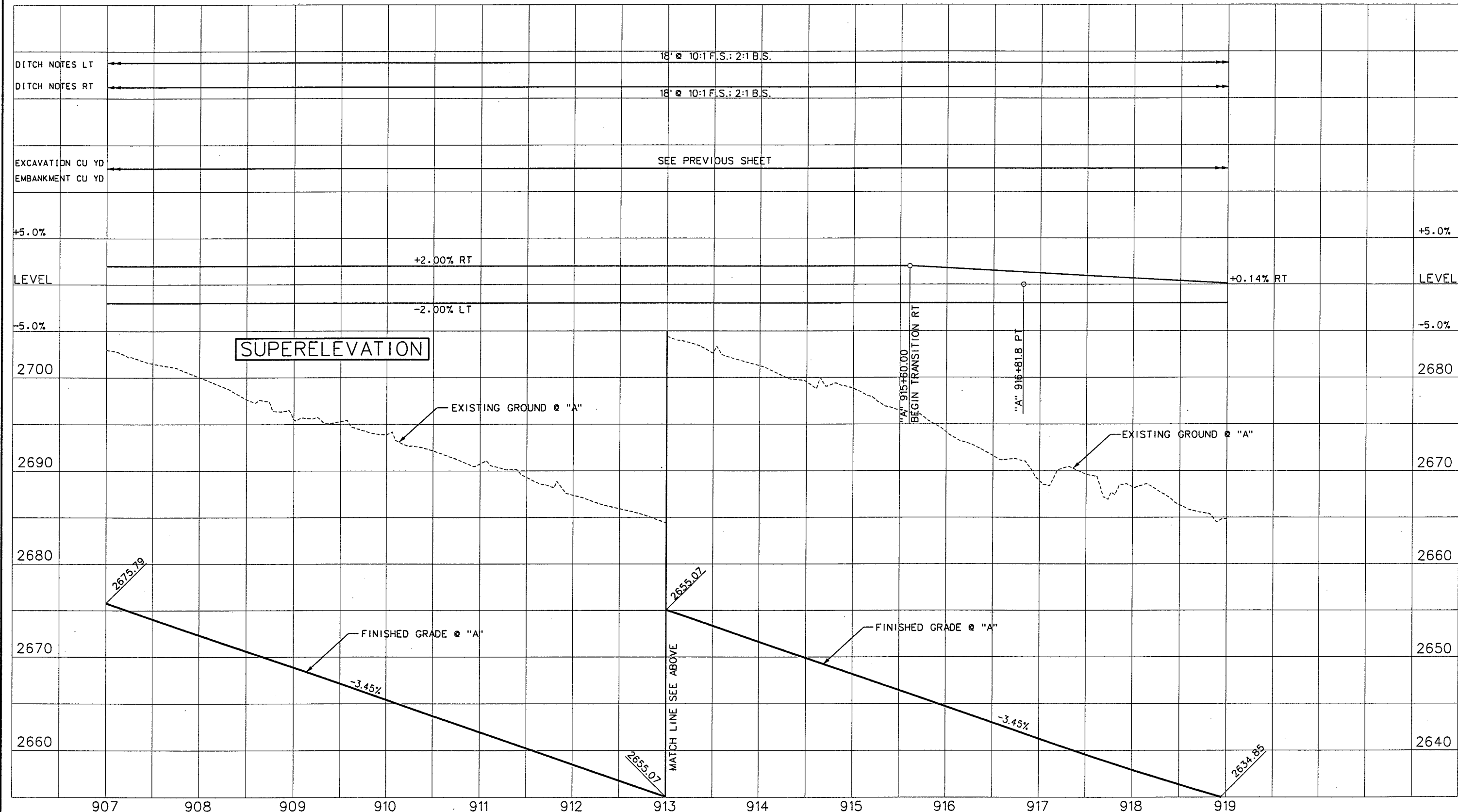
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DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-11
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: J:\1-1-SUPERLEV.MST - 851-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-initial-profile.mst - 851-stamp.mst
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REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 907+00.00 TO "A" 919+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

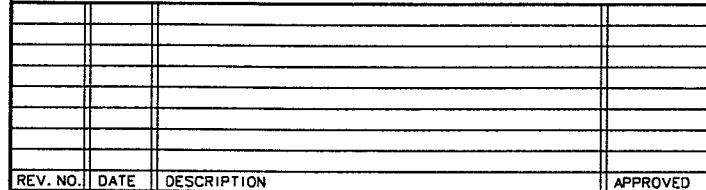
90%
PRELIMINARY
3-29-02

PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-12
OF
L-1695

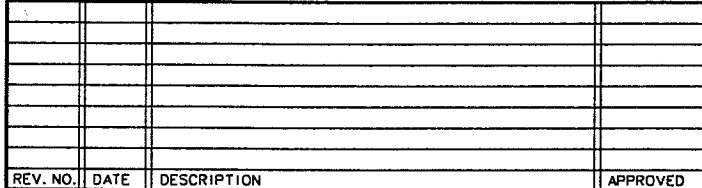
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY



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PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-13
OF
1-1695

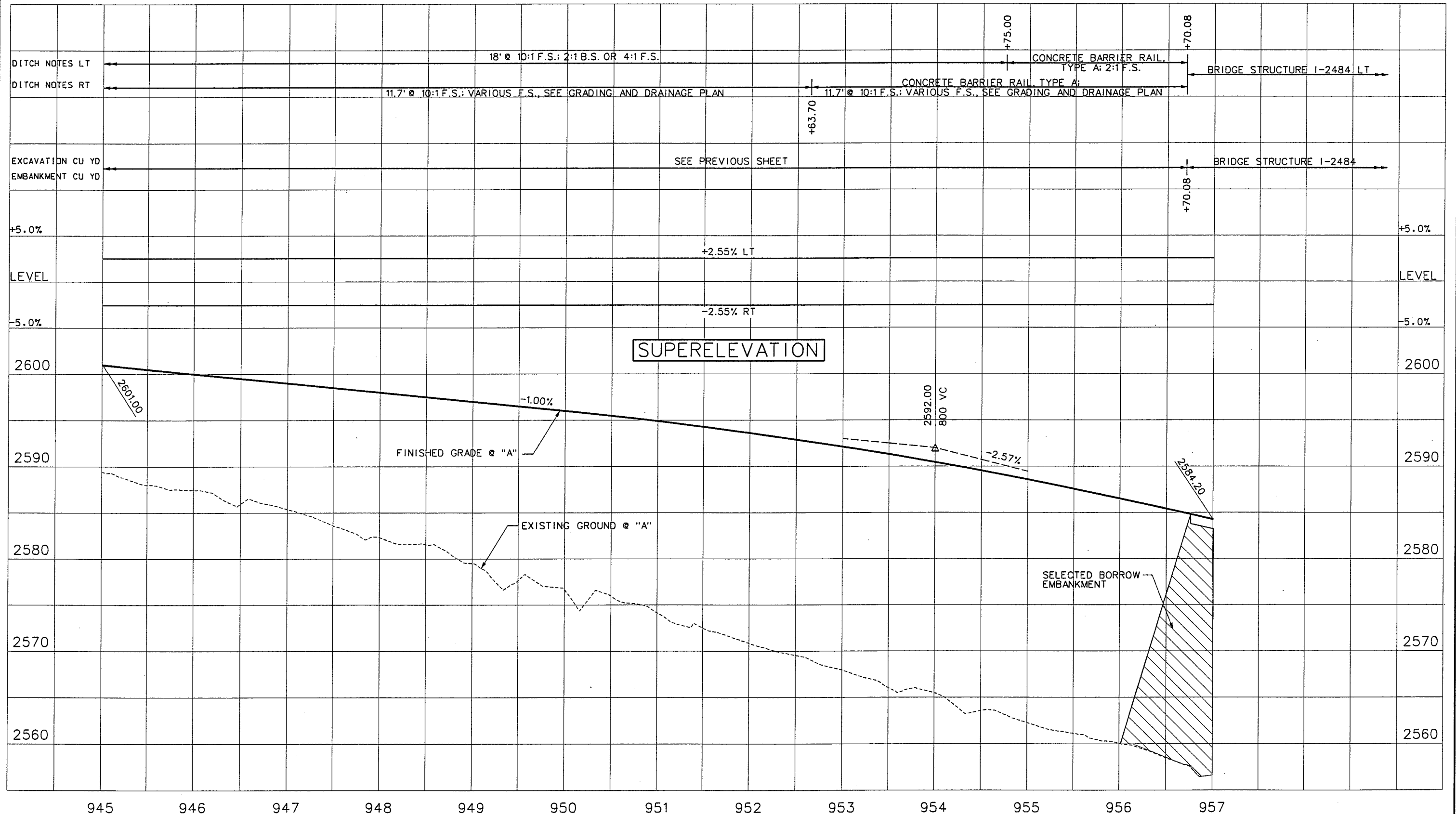


90%
PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-14
OF
1-1695

REFERENCE FILE: J:\51-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-stomp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\interm\PROFILES\851-j-pr13.dgn - 4/16/2002 - 11:19:28 WFD



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"A" 945+00.00 TO "A" 957+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

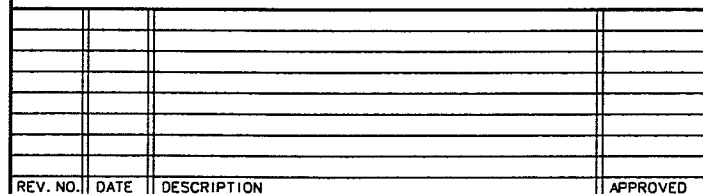
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: FG	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-15
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

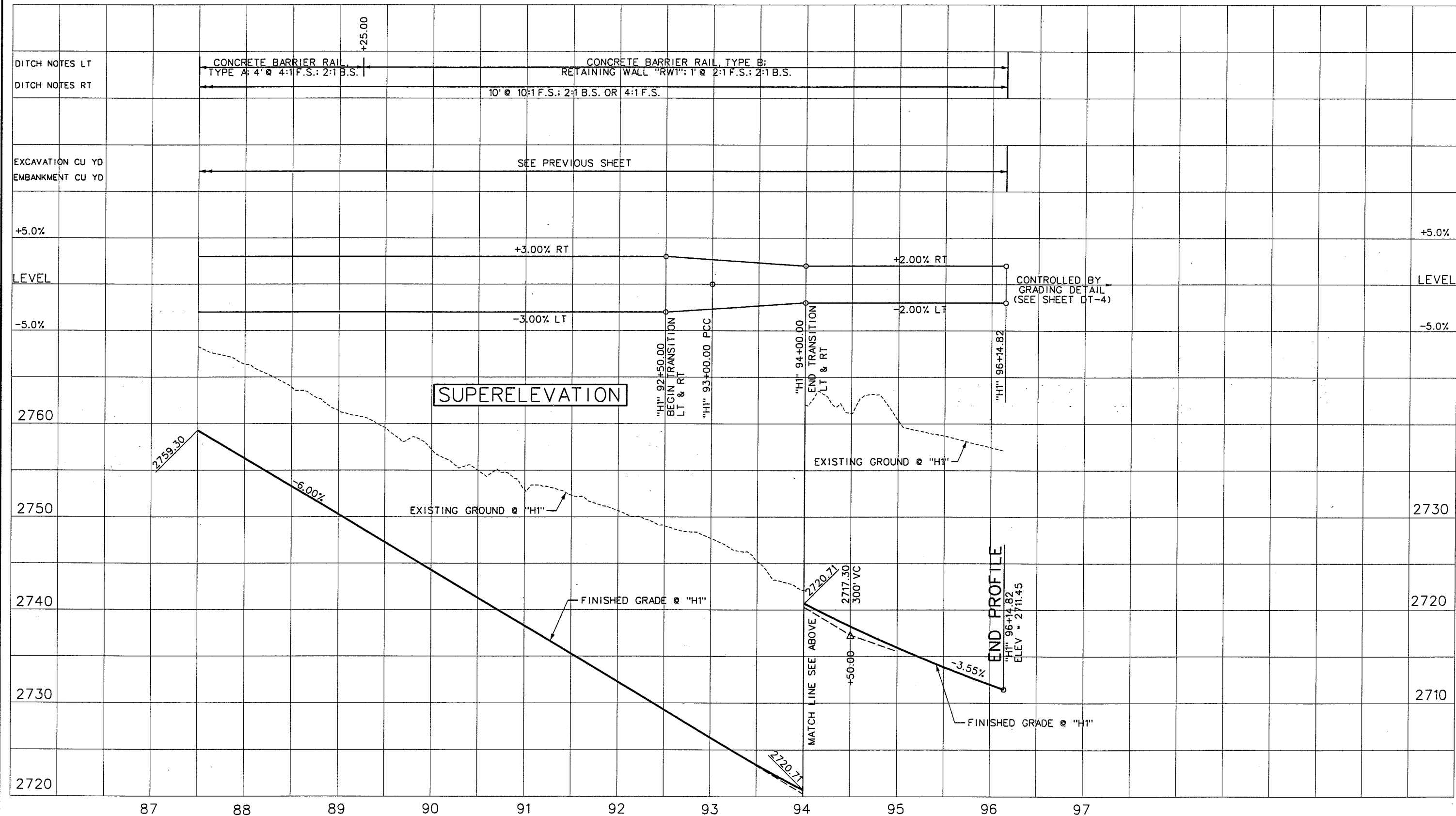


90%
PRELIMINARY
4-12-02

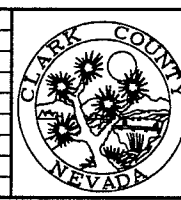
SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-17
OF
L-1695

REFERENCE FILE: 851-profile.mst/851-pro-grid.mst/851-border.mst/851-stamp.mst
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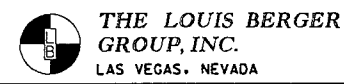
REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"H1" 87+50.00 TO "H1" 96+14.82
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

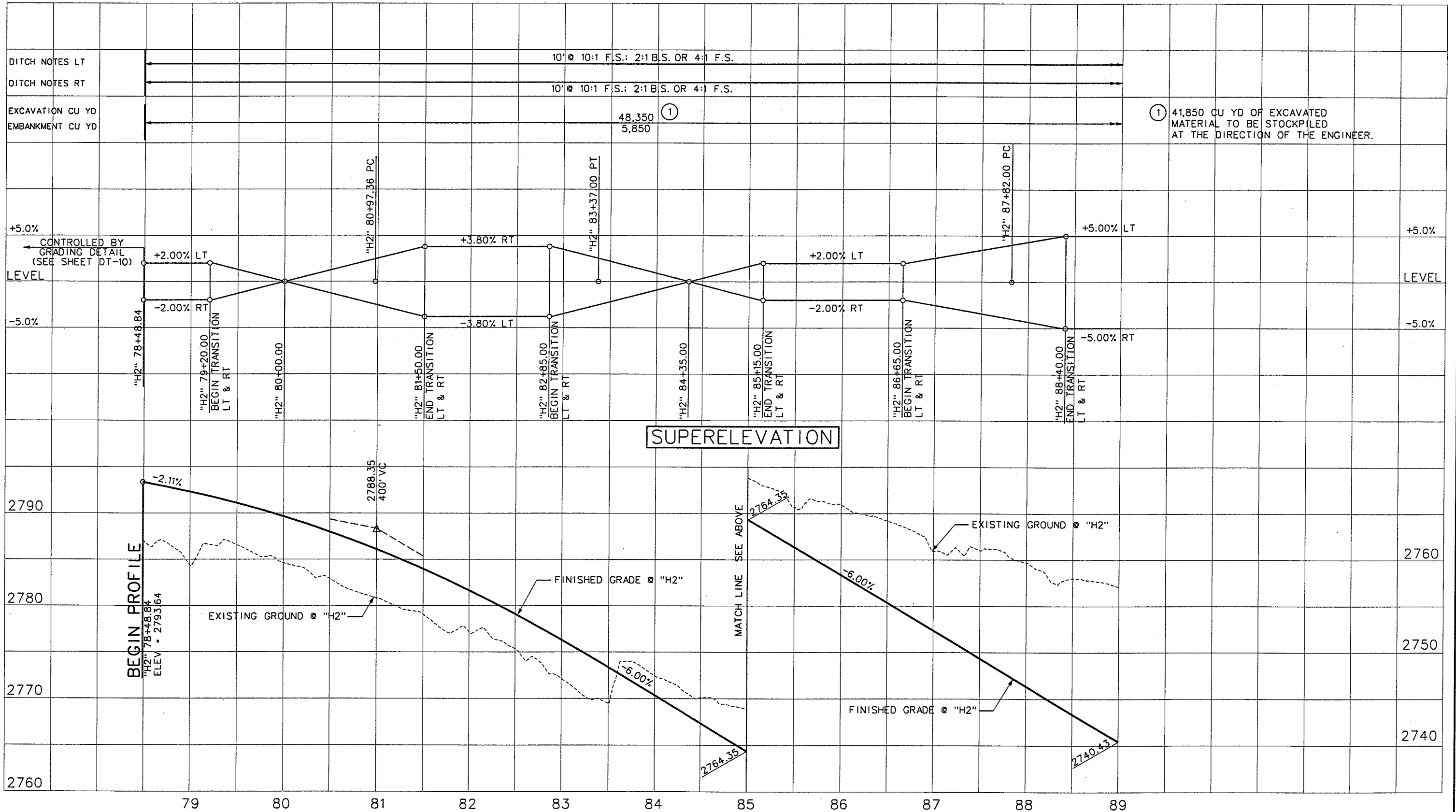
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: RGS	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-18
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-profile.mst/851-pro-grid.mst/851-border.mst/851-stamp.mst
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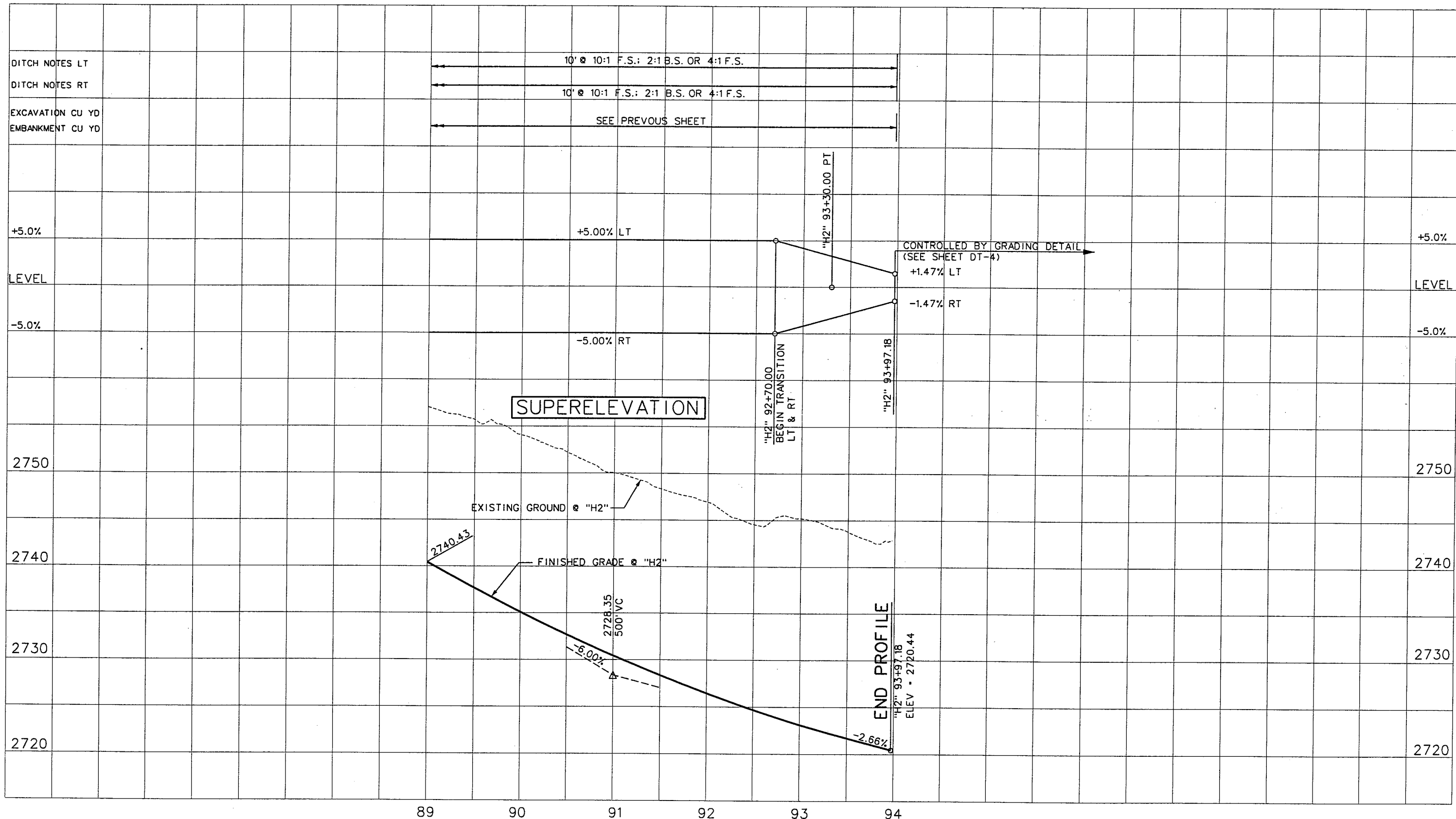
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"H2" 78+48.84 TO "H2" 89+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851
DESIGNED BY: MJP
APPROVED BY: TDL
DRAWN BY: JHG
CHECKED BY: DPW
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK
DRAWING NO.
P-19
OF
L-1695

REFERENCE FILE 851-pro-grid.mst - 851-initial-profile.mst - 851-border.mst - 851-stamp.mst
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WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"H2" 89+00.00 TO "H2" 93+97.18
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: JHG
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TOL

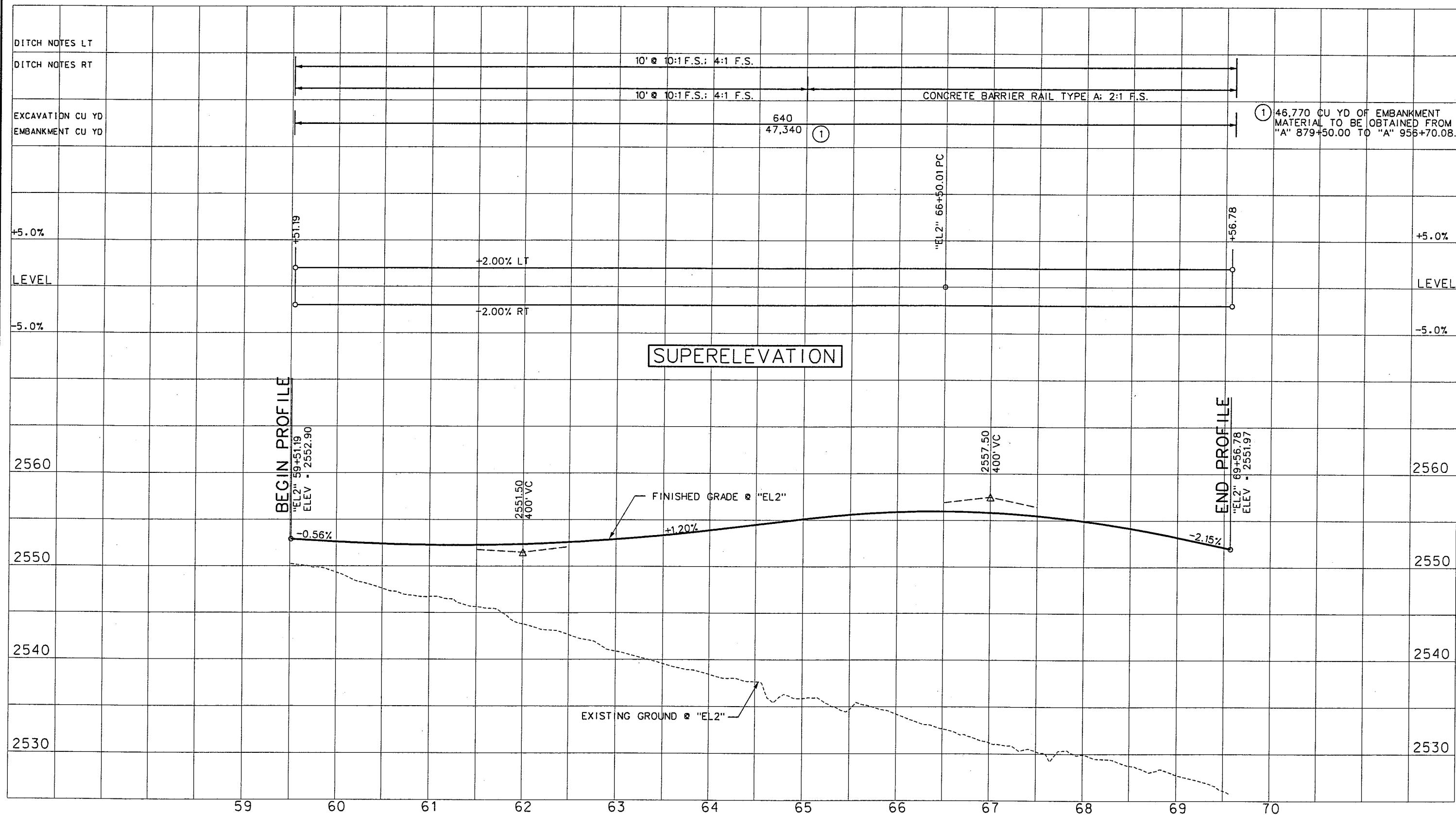
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-20
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

[illegible]

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL2" 59+51.19 TO "EL2" 69+56.78
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: FG
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TOL

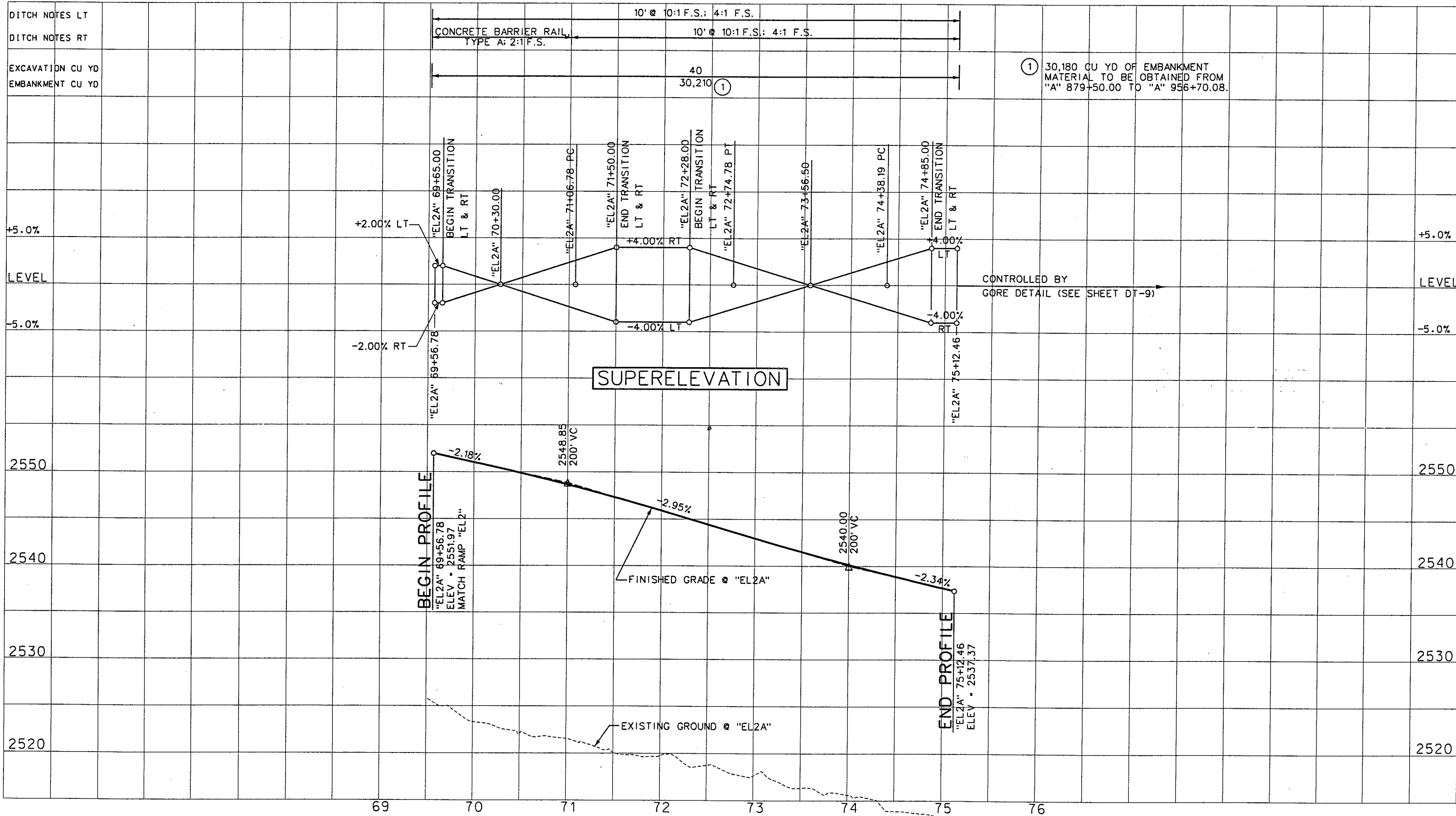


**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.	P-23
OF	
	L-1695

REFERENCE FILES: 851-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-stomp.mst
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WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL2A" 69+56.78 TO "EL2A" 75+12.46
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: FG
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL



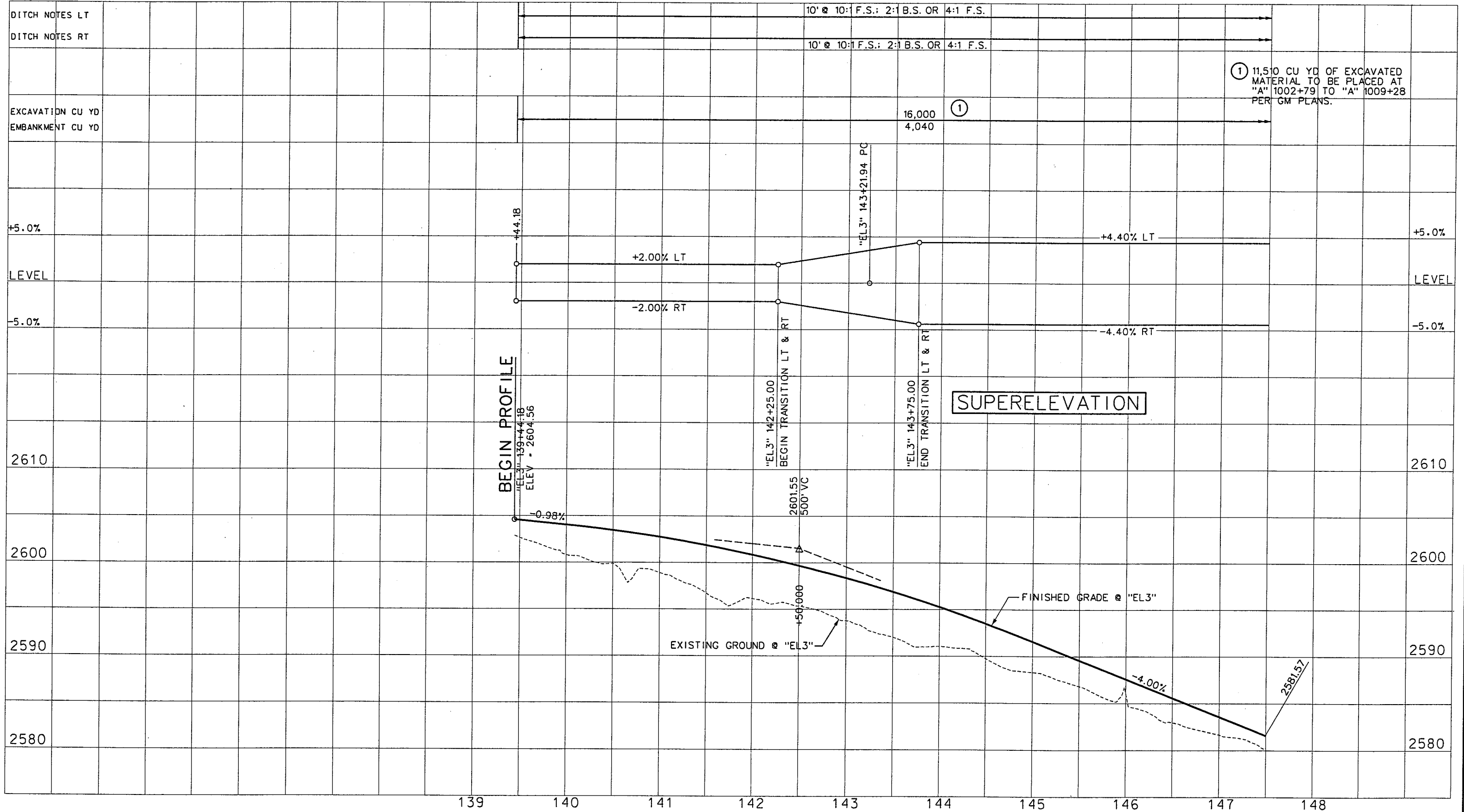
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-24
OF
L-1695

REV. NO.	DATE	DESCRIPTION	APPROVED

REFERENCE FILE:
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\PROFILES\851-1-pr29.dgn - 4/12/2002 - 11:42:05 RR



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL3" 139+44.18 TO "EL3" 147+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

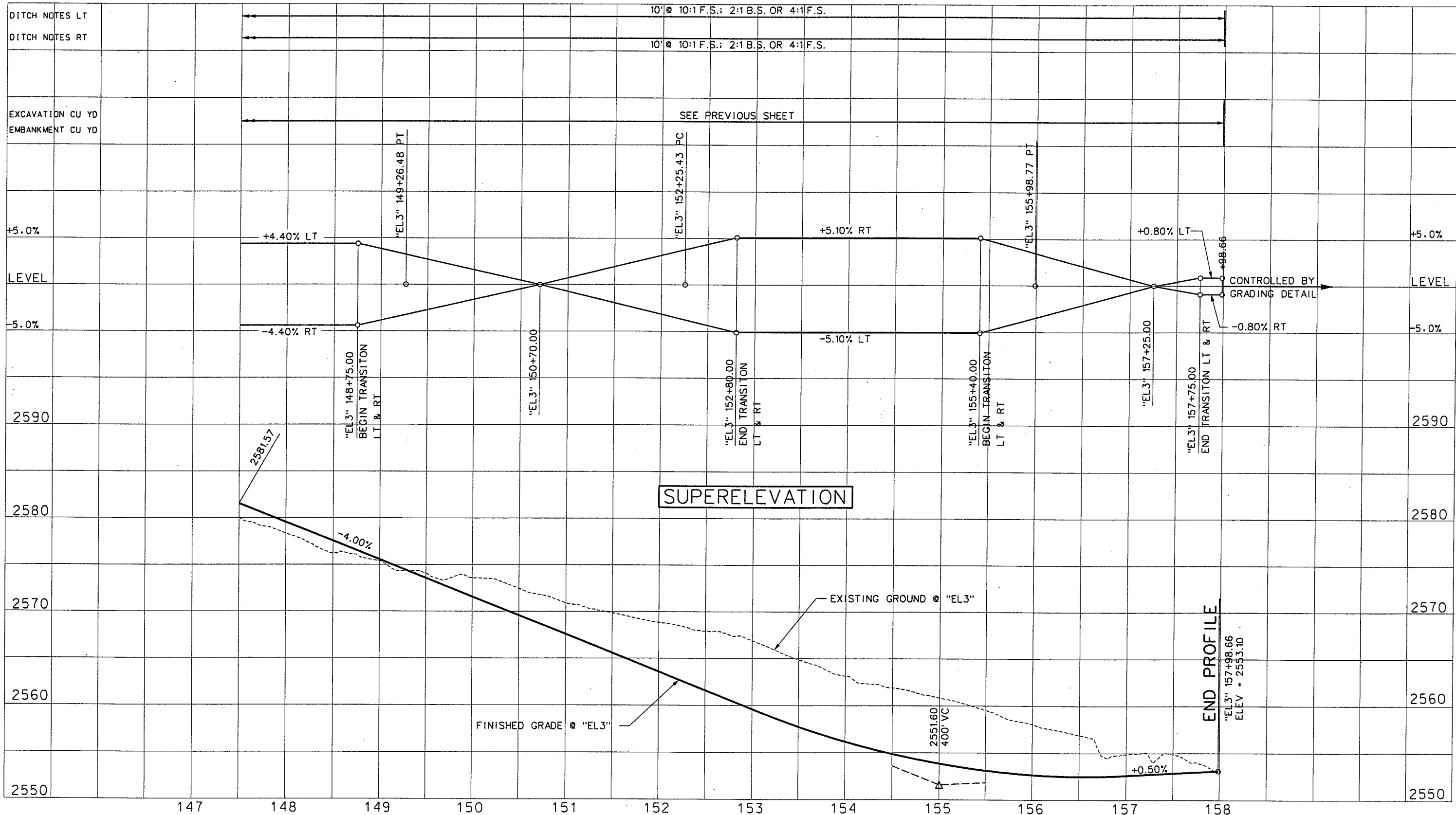
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-25
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE

FILE NAME: V:\851 Ann Rd to El Capitan\Interm\PROFILES\851-1-pr30.dgn - 4/1/2002 - 16:37:39 RR



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL3" 147+50.00 TO "EL3" 157+98.66
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

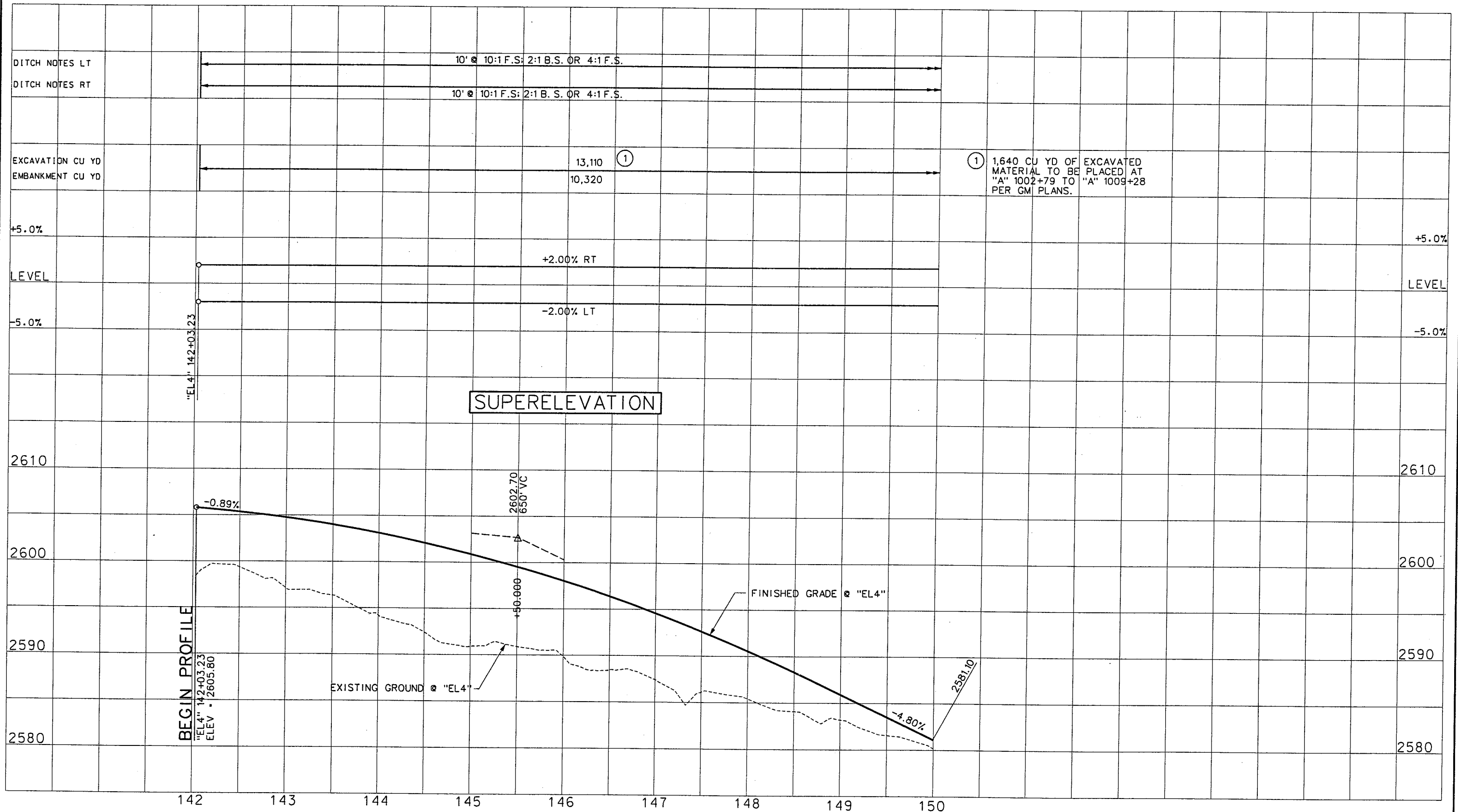
PROJECT NO: 851	DRAWN BY: RGS	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-26
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILES:

FILE NAME: V:\851 Ann Rd to El Capitan\Intern\PROFILES\851-1-pr32.dgn - 4/16/2002 - 11:44:23 RR



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL4" 142+03.23 TO "EL4" 150+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

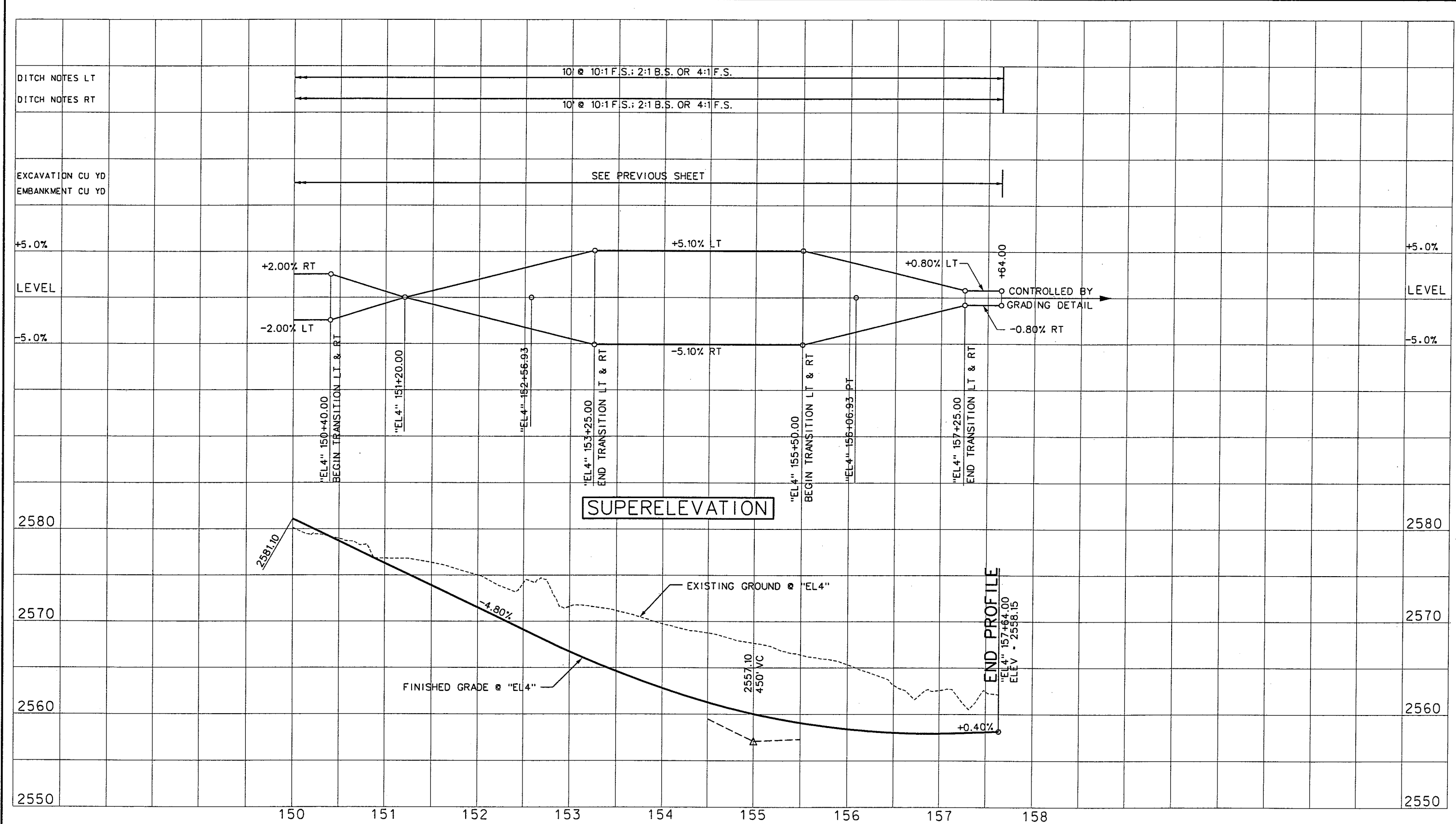
PROJECT NO: 851 DRAWN BY: JHG
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
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OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE:
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REV. NO.	DATE	DESCRIPTION	APPROVED

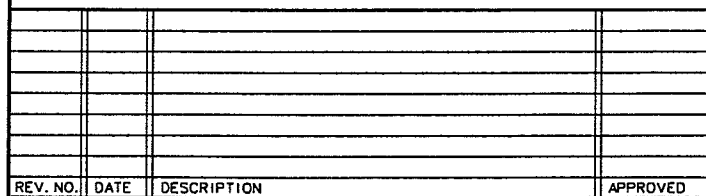


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL4" 150+00.00 TO "EL4" 157+64.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: JHG	SCALE	DRAWING NO. P-28
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	OF
APPROVED BY: TDL		VERT: AS SHOWN	
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

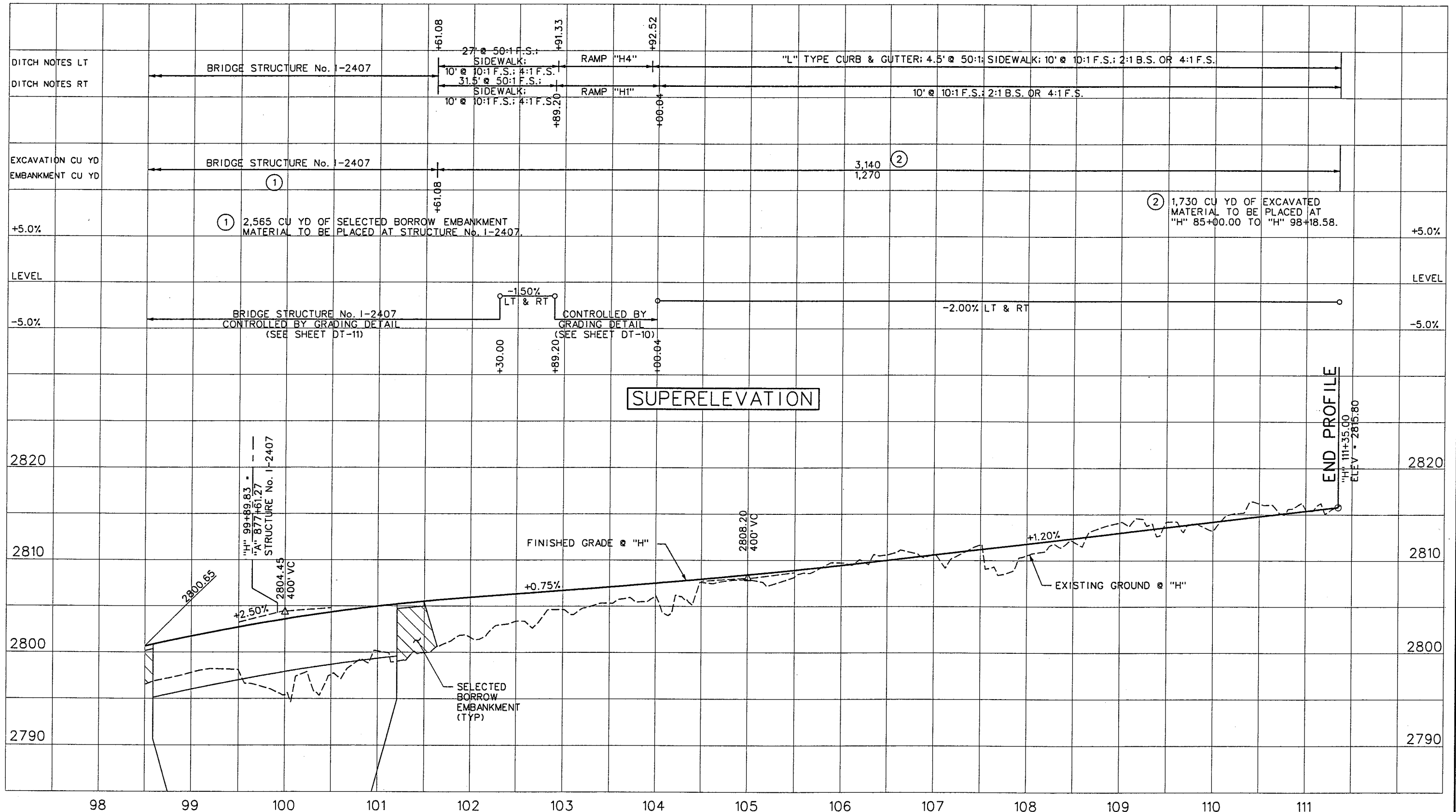


90%
PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-29
OF
L-1695

REFERENCE FILE: d51-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-stop.mst
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WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"H" 98+50.00 TO "H" 111+35.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

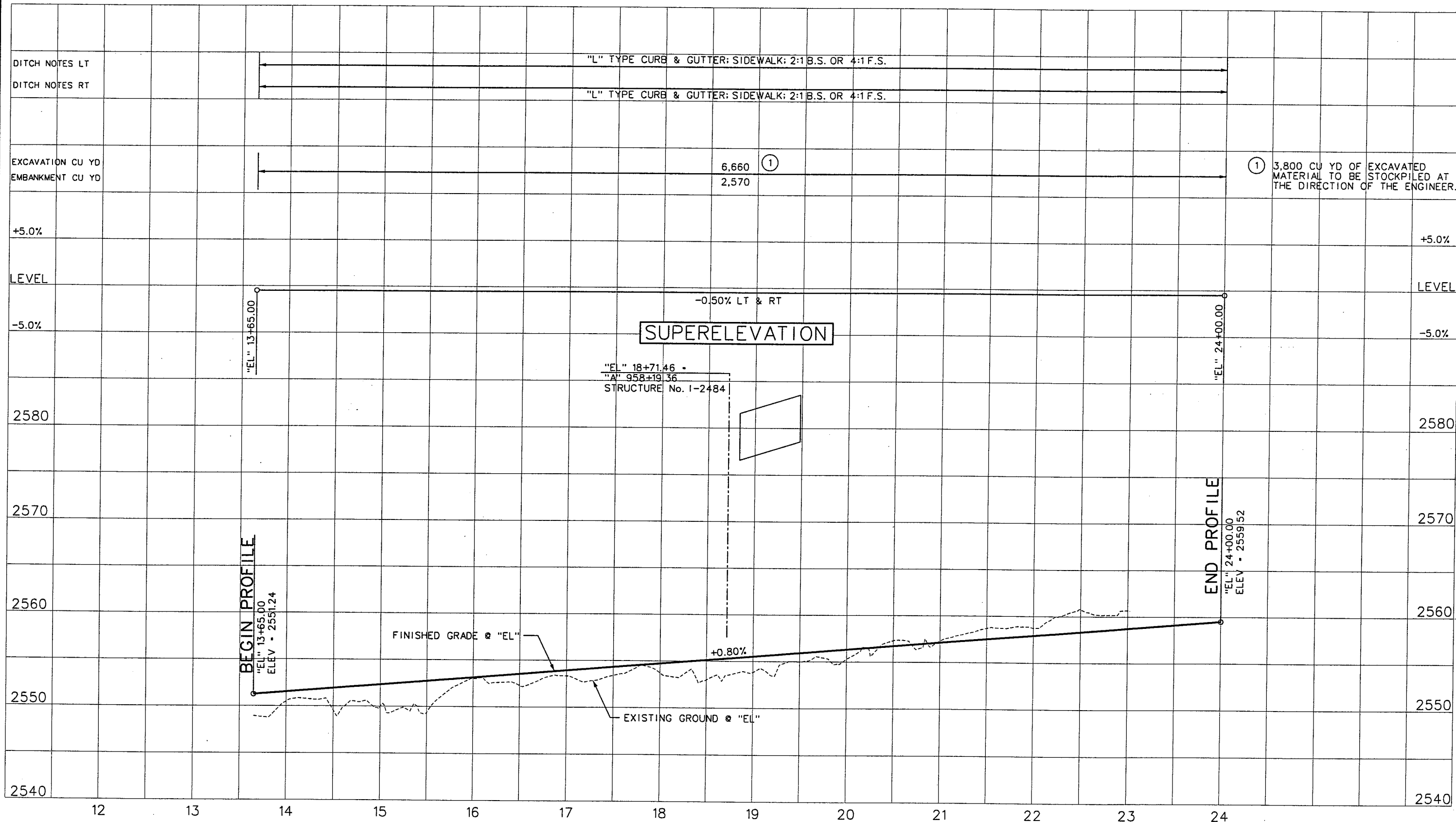
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
P-30
OF
L-1695

REFERENCE FILE: 851-initial-profile.mst - 851-pro-grid.mst - 851-border.mst - 851-stamp.mst
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REV. NO.	DATE	DESCRIPTION	APPROVED



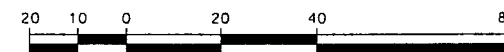
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE
"EL" 13+65.00 TO "EL" 24+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	P-31
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695



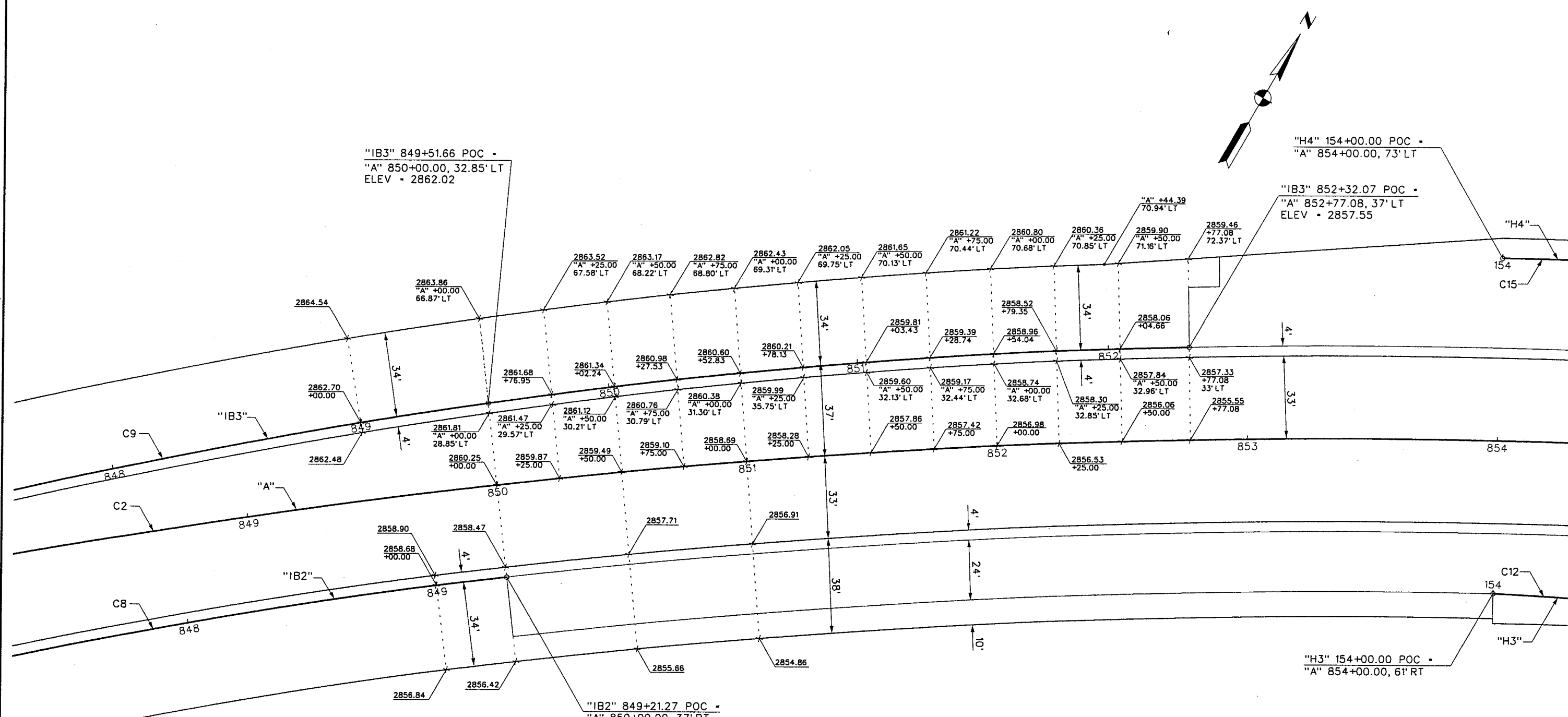
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

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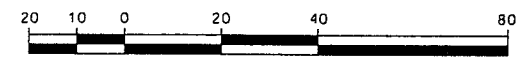
WEEK OF
PRELIMINARY
2-16-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>JR</u>	SCALE	DRAWING NO.
DESIGNED BY: <u>MJP</u>	CHECKED BY: <u>DPW</u>	HORIZ: AS SHOWN	DT-1
APPROVED BY: <u>TDL</u>		VERT: NONE	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	OF
			L-1695

REFERENCE FILE: B51-INTERNAL.GN.mst - B51-INT-Geo.mst - B51-border.mst - B51-stamp.mst
FILE NAME: V:\B51 Ann Rd to El Capitan\Intern\details\B51-igor-b-a.dgn - 2/21/2002 - 14:14:17 RR



ROADWAY CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C2	3000.00'	5231.35'	3569.66'	99° 54' 41"
C8	2000.00'	287.59'	144.04'	08° 14' 19"
C9	2300.00'	1315.63'	676.36'	32° 46' 26"
C12	2900.00'	825.00'	415.30'	16° 17' 59"
C15	3073.00'	614.60'	308.33'	11° 27' 33"



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"A", "IB2", "IB3"
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

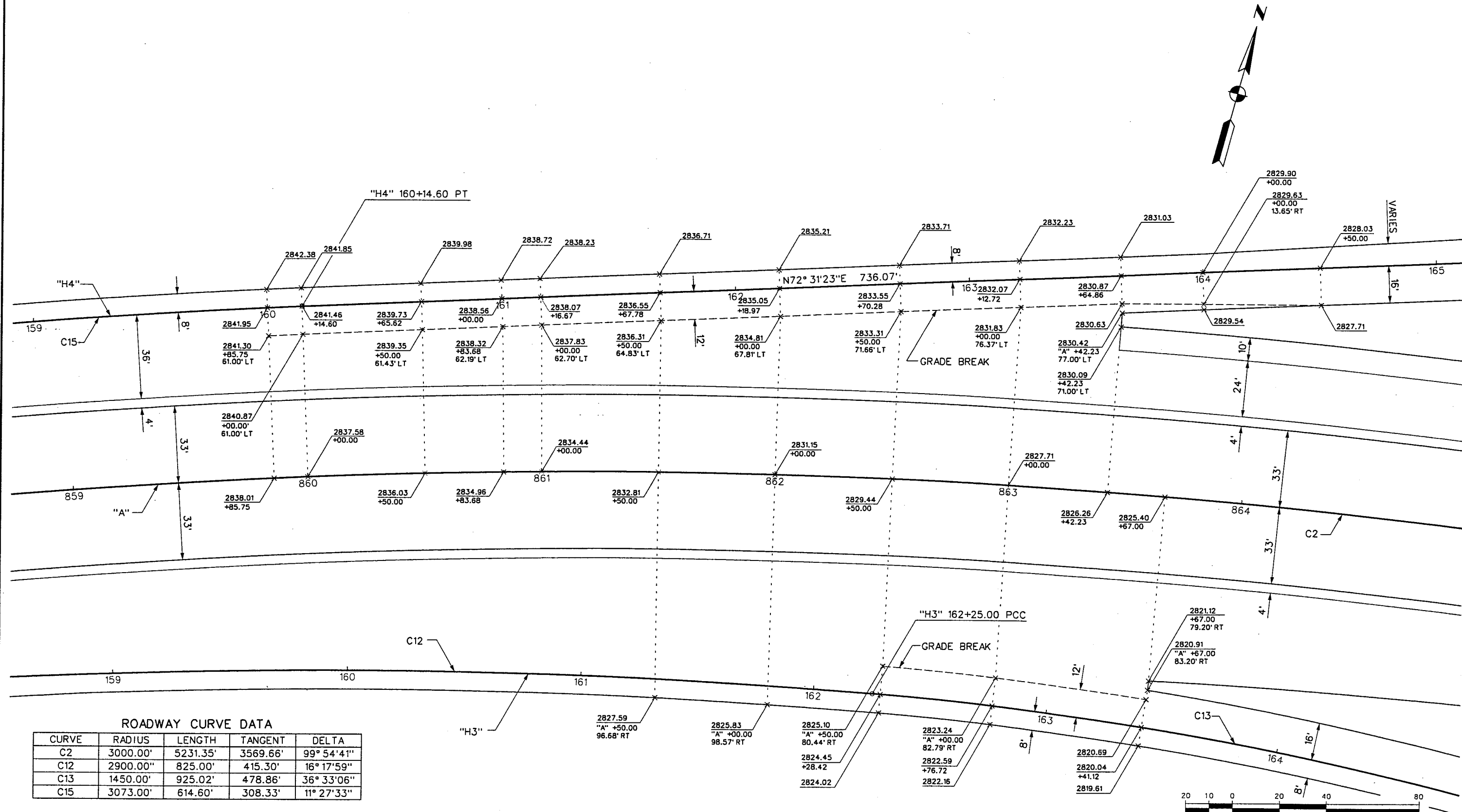
WEEK OF
PRELIMINARY
2-16-02

PROJECT NO: 851	DRAWN BY: WFO	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	DT-2
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-INTERNALIGN.mst ~ 851-INT-CEO.mst ~ 851-border.mst

FILE NAME: V:\851 Ann Rd to El Capitan\Intern\details\851-100-h3h4.dgn ~ 4/4/2002 ~ 14:34:24 GFV



ROADWAY CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C2	3000.00'	5231.35'	3569.66'	99° 54' 41"
C12	2900.00"	825.00'	415.30'	16° 17' 59"
C13	1450.00"	925.02'	478.86'	36° 33' 06"
C15	3073.00'	614.60'	308.33'	11° 27' 33"

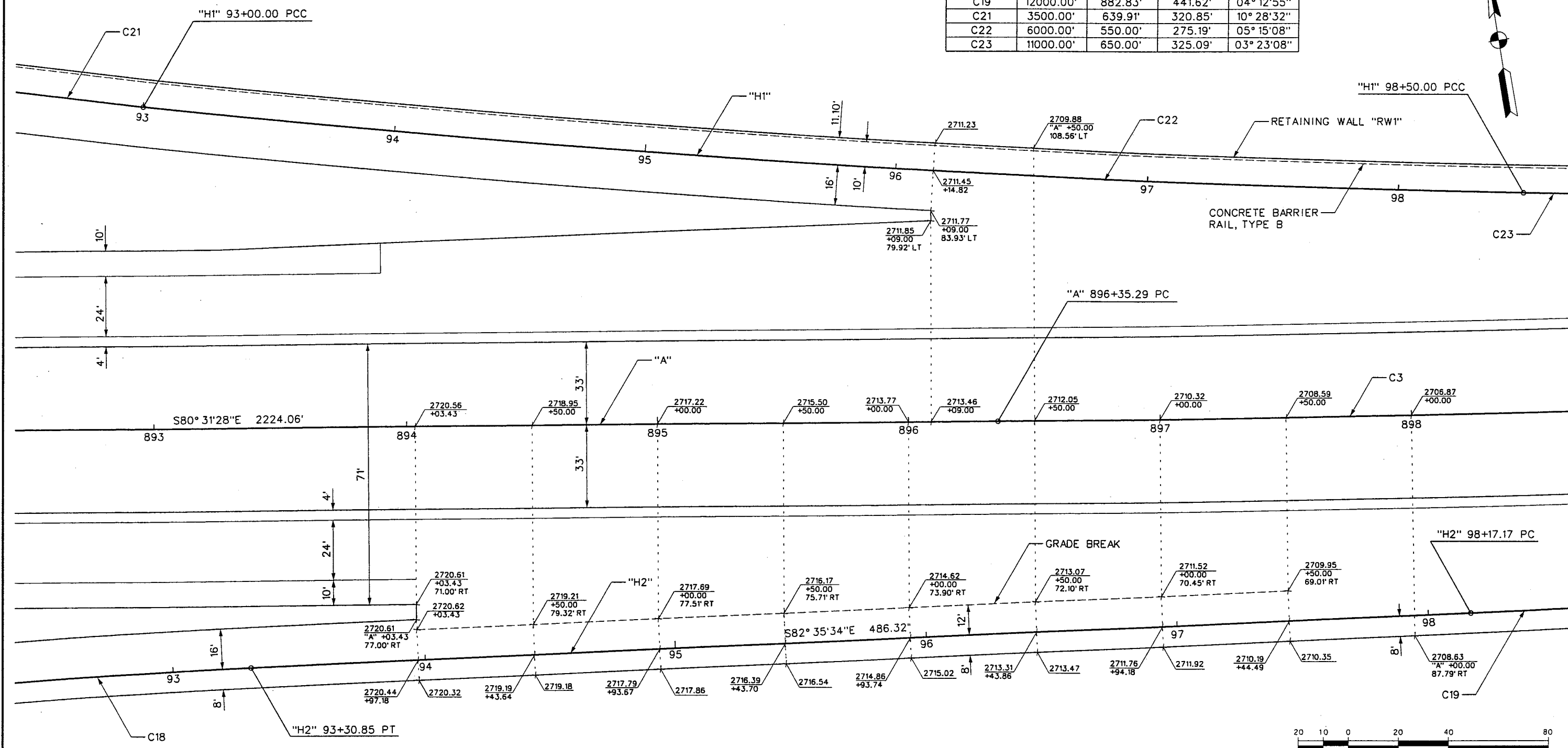


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GORE DETAIL
"H3" & "H4"
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: JHG	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	DT-3
APPROVED BY: TDL		VERT: NONE	OF
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	L-1695

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C3	12000.00'	2045.89'	1025.43'	09° 46'06"
C18	2500.00'	548.85'	275.53'	12° 34'44"
C19	12000.00'	882.83'	441.62'	04° 12'55"
C21	3500.00'	639.91'	320.85'	10° 28'32"
C22	6000.00'	550.00'	275.19'	05° 15'08"
C23	11000.00'	650.00'	325.09'	03° 23'08"



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GORE DETAIL
"H1" AND "H2"
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
3-29-03

PROJECT NO: 851 DRAWN BY: RR
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL

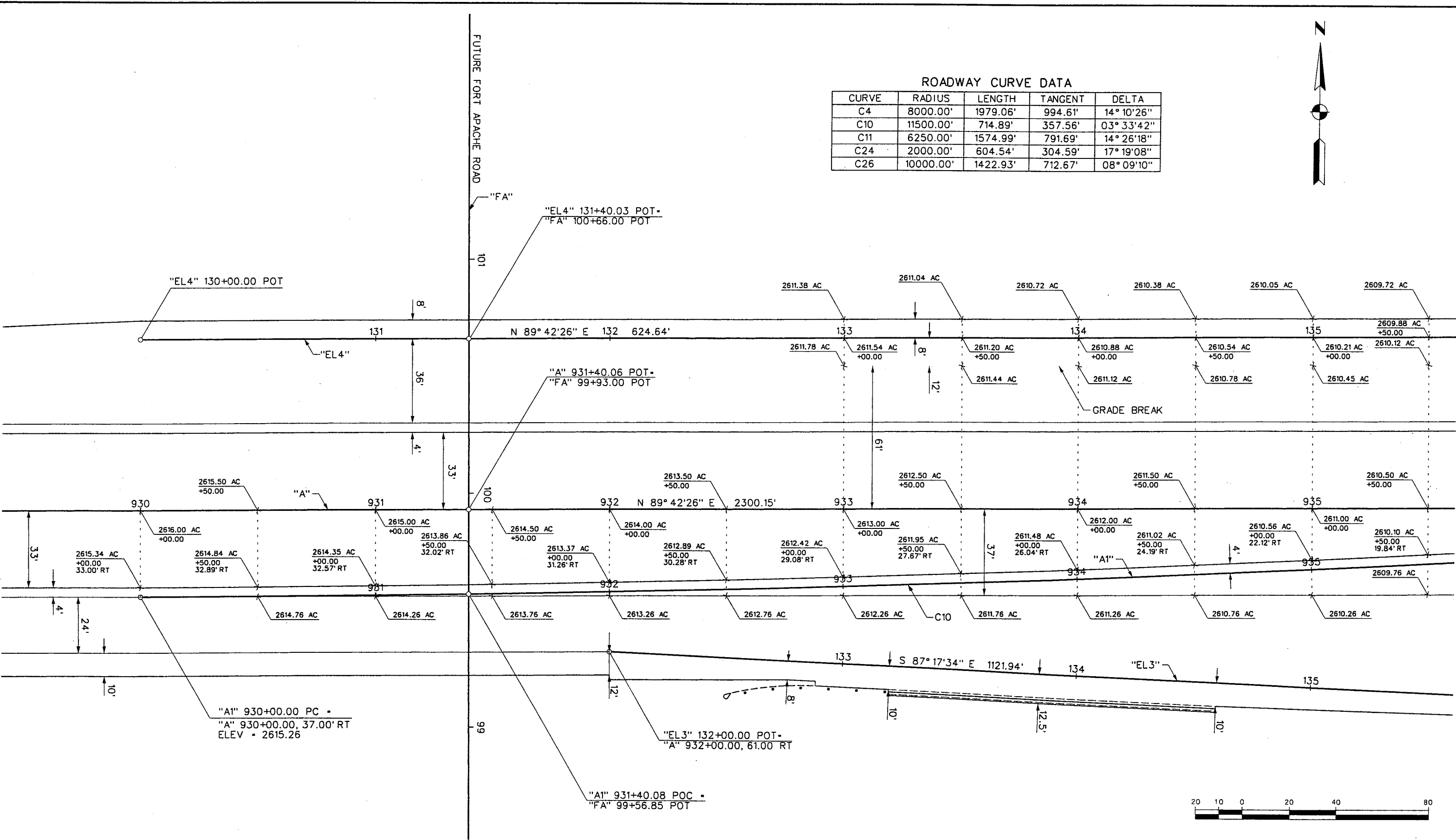
 **THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

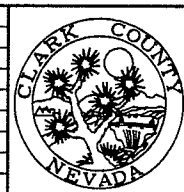
DRAWING NO.
DT-4
OF
1-1695

[illegible]

REFERENCE FILE: 851-INTERNAL\IGN.mst ~ 851-INT-CEO.mst ~ 851-border.mst ~ A1-Grading.dgn
FILE NAME: V:\851 Ann Rd to El Capitan\intern\details\851-1-geo-a1-01.dgn - 3/11/2002 - 13:20:29 RR



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"A" 930+00.00 TO "A" 935+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

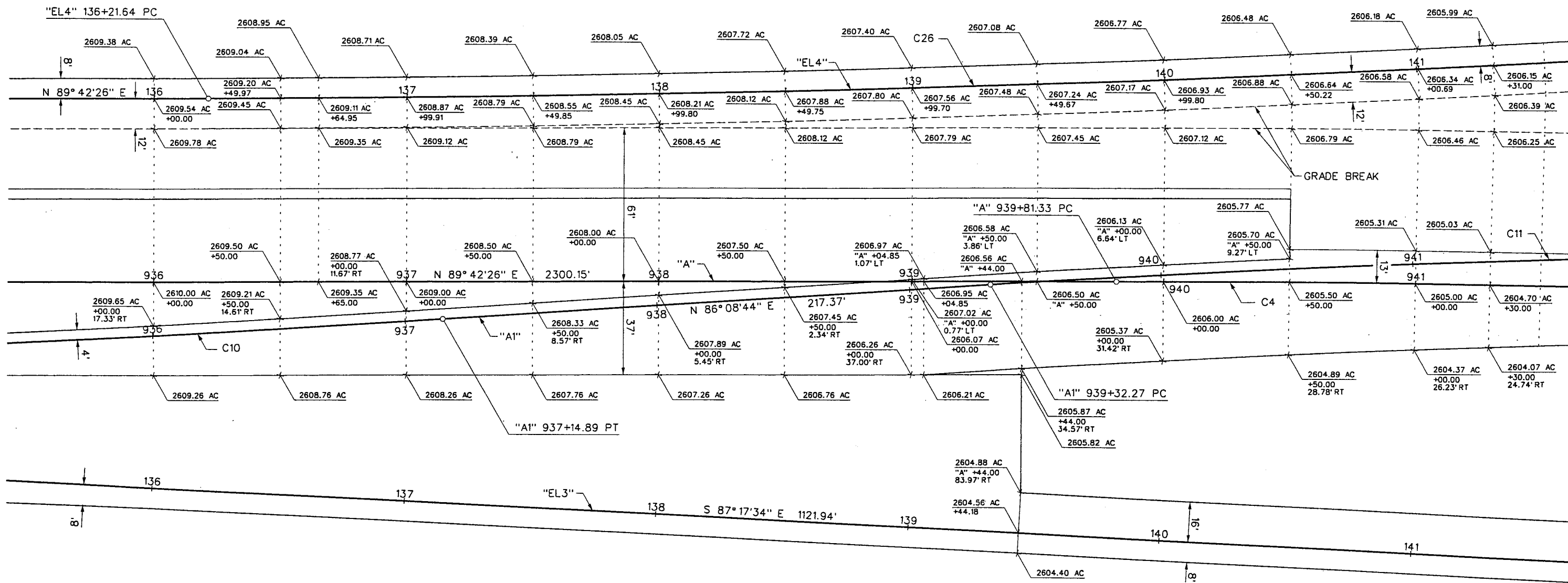
90%
PRELIMINARY
3-29-02

PROJECT NO: 851
DESIGNED BY: MJP
APPROVED BY: TDL
DRAWN BY: ARB
CHECKED BY: DPW
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: AS SHOWN	DT-5
VERT: NONE	OF
FIELD BOOK	
	L-1695

REFERENCE FILE: 851-INTERNAL IGN.mst ~ 851-INT-GEO.mst ~ 851-border.mst ~ A1-Grading.dgn
FILE NAME: V:\851 Ann Rd to El Capitan\intern\details\851-geo-a1-02.dgn - 3/8/2002 - 13:26:57 RR

ROADWAY CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C4	8000.00'	1979.06'	994.61'	14° 10' 26"
C10	11500.00'	714.89'	357.56'	03° 33' 42"
C11	6250.00'	1574.99'	791.69'	14° 26' 18"
C26	10000.00'	1422.93'	712.67'	08° 09' 10"



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"A" 935+50.00 TO "A" 941+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

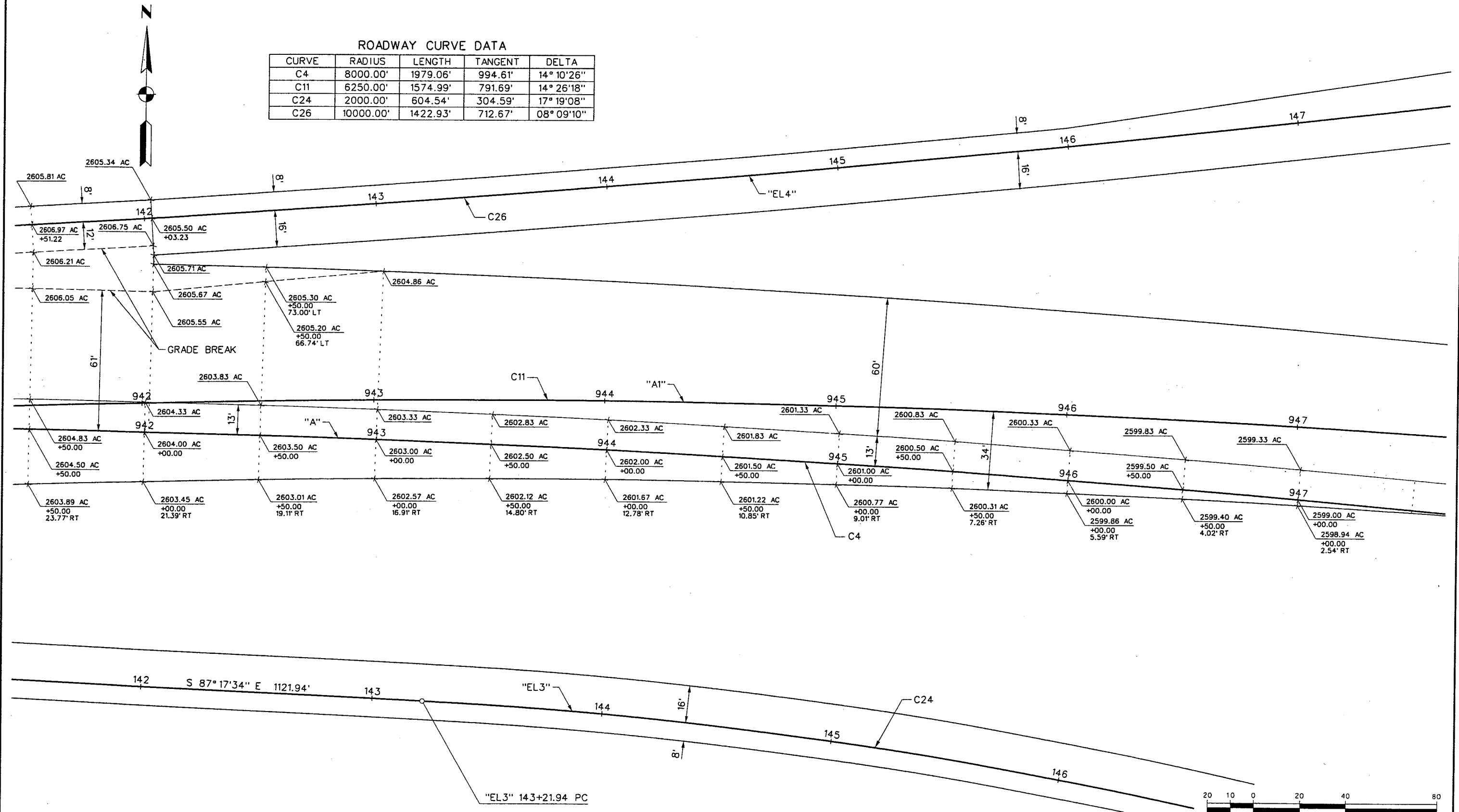
90%
PRELIMINARY
3-29-02

PROJECT NO: 851 DRAWN BY: ARB
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
DT-6
OF
L-1695

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C4	8000.00'	1979.06'	994.61'	14° 10'26"
C11	6250.00'	1574.99'	791.69'	14° 26'18"
C24	2000.00'	604.54'	304.59'	17° 19'08"
C26	10000.00'	1422.93'	712.67'	08° 09'10"



REFERENCE FILE: \\851-INTERNAL\IGN.mst ~ 851-INT-GEO.mst ~ 851-border.mst ~ A1-Grading.dgn

FILE NAME: V:\851 Ann Rd to El Capitan\intern\details\851-ltgeo-al-03.dgn ~ 3/11/2002 ~ 13:45:27 RR

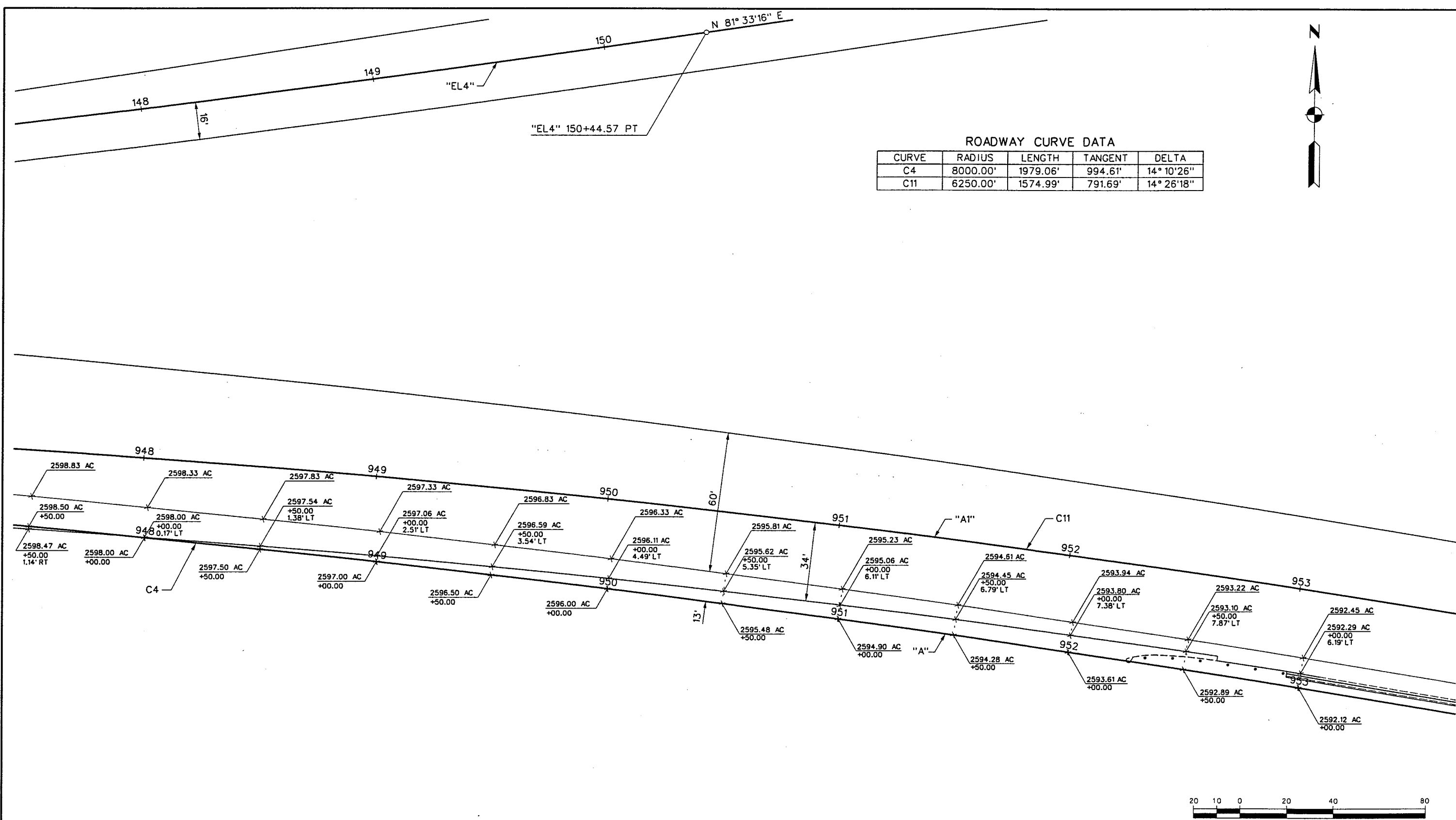
[illegible]

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"A" 941+50.00 TO "A" 947+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
3-29-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>ARB</u>	DRAWING NO. DT-7 OF 1605
DESIGNED BY: <u>MJP</u>	CHECKED BY: <u>DPW</u>	
APPROVED BY: <u>TDL</u>		
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		
SCALE HORIZ: <u>AS SHOWN</u> VERT: <u>NONE</u>		
FIELD BOOK		

REFERENCE FILE: s51-INTERNAL.IGN.mst ~ 851-INT-GEO.mst ~ 851-border.mst ~ A1-Grading.dgn
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\details\851-geo-a1-04.dgn ~ 4/4/2002 ~ 14:35:35 GFV



ROADWAY CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
C4	8000.00'	1979.06'	994.61'	14° 10' 26"
C11	6250.00'	1574.99'	791.69'	14° 26' 18"



REV. NO.	DATE	DESCRIPTION	APPROVED



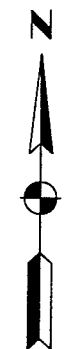
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"A" 947+50.00 TO "A" 953+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: ARB
DESIGNED BY: MJP CHECKED BY: DPW
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
DT-8
OF
L-1695



CURVE	RADIUS	LENGTH	TANGENT	DELTA
C5	8000.00'	2117.26'	1064.85'	15° 09'50"
C30	1500.00'	182.73'	91.48'	06° 58'47"
C31	8000.00'	650.00'	325.18'	04° 39'19"

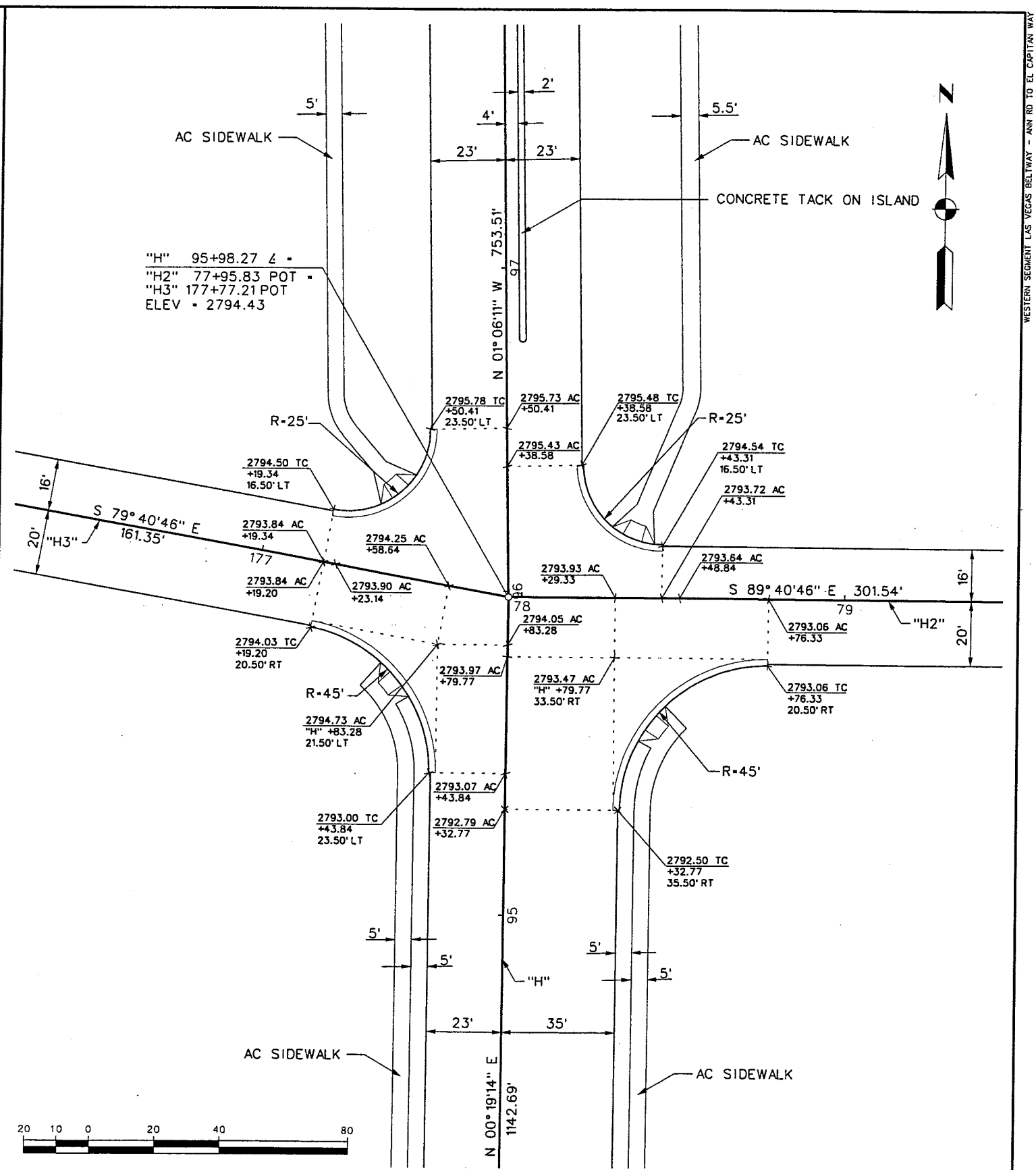
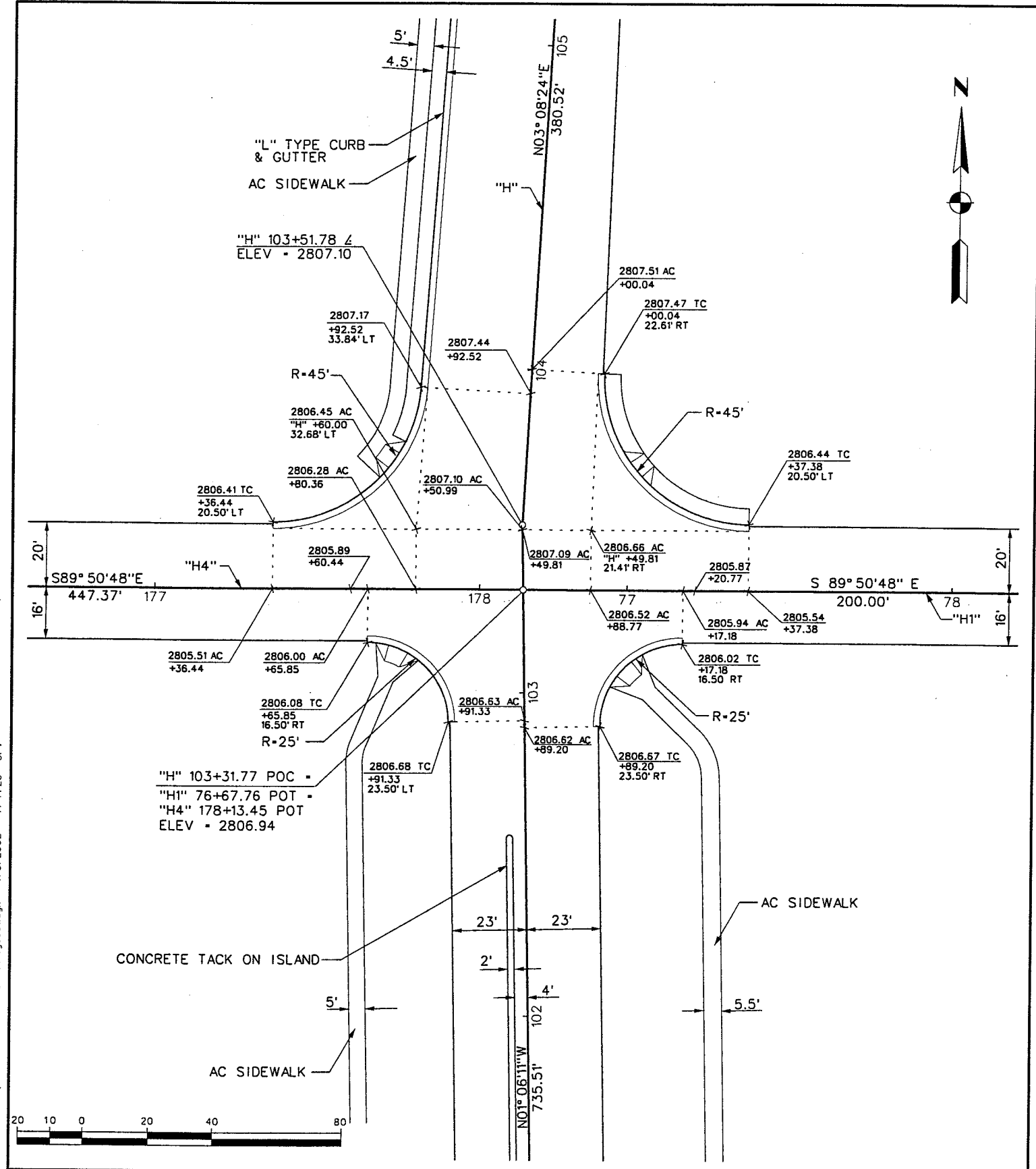


90%
PRELIMINARY
3-29-02

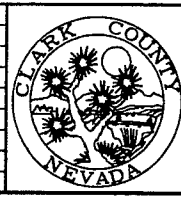
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
DT-9
OF
L-1695

REFERENCE FILE: c51-INT-Geo.mst ~ 851-INTERNAL-IGN.mst ~ 851-INT-Geo.mst ~ 851-INT-Geo.mst ~ 851-INTERNAL-IGN.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\details\851-Geo01.dgn ~ 4/5/2002 ~ 14:41:20 GFV



REV. NO.	DATE	DESCRIPTION	APPROVED

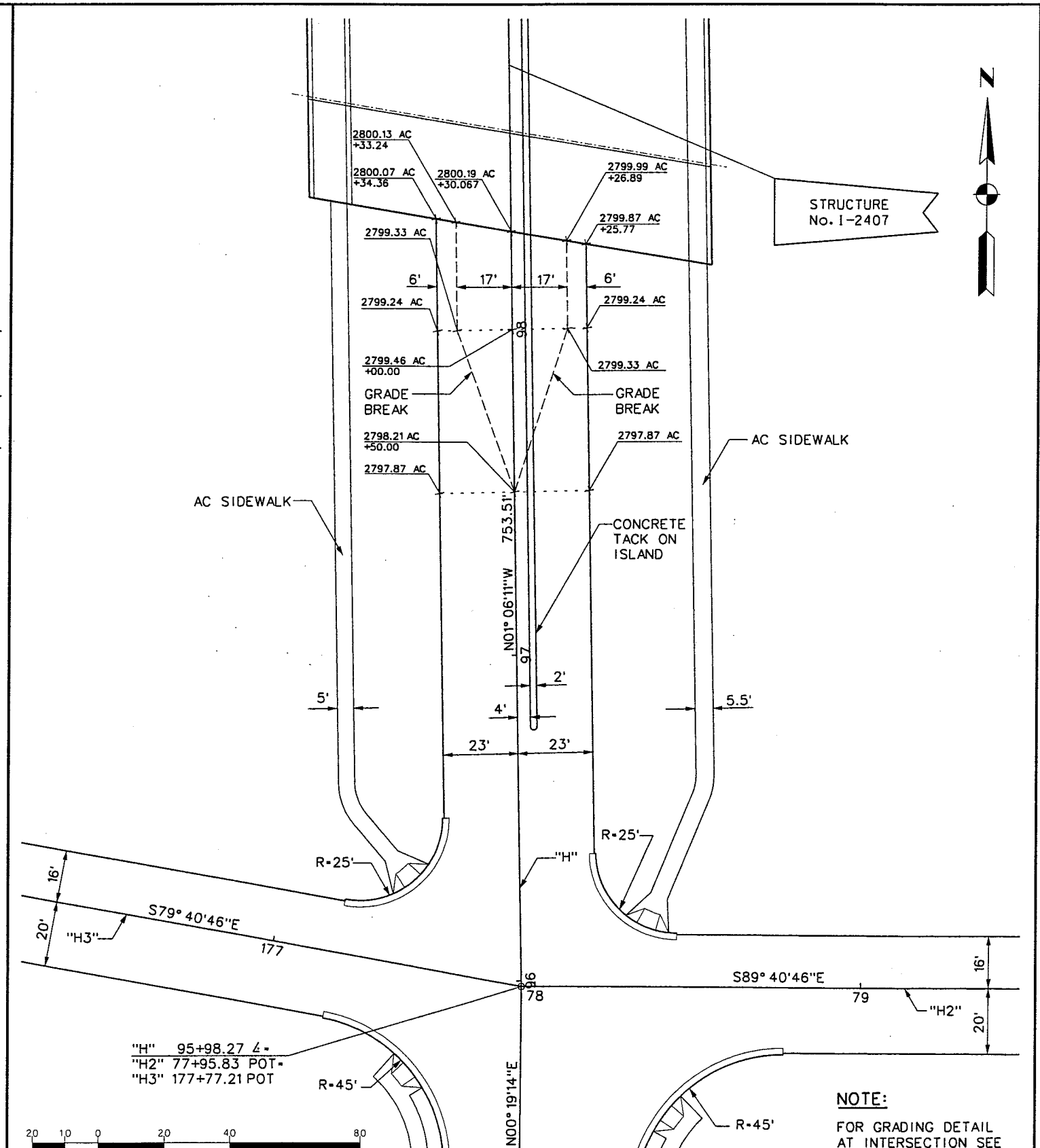
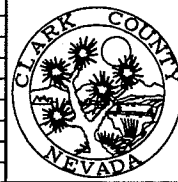


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING DETAIL
"H1", "H2", "H3" AND "H4"
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: ARB	SCALE	DRAWING NO.
DESIGNED BY: MJP	CHECKED BY: DPW	HORIZ: AS SHOWN	DT-10
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



[illegible]

"H"

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

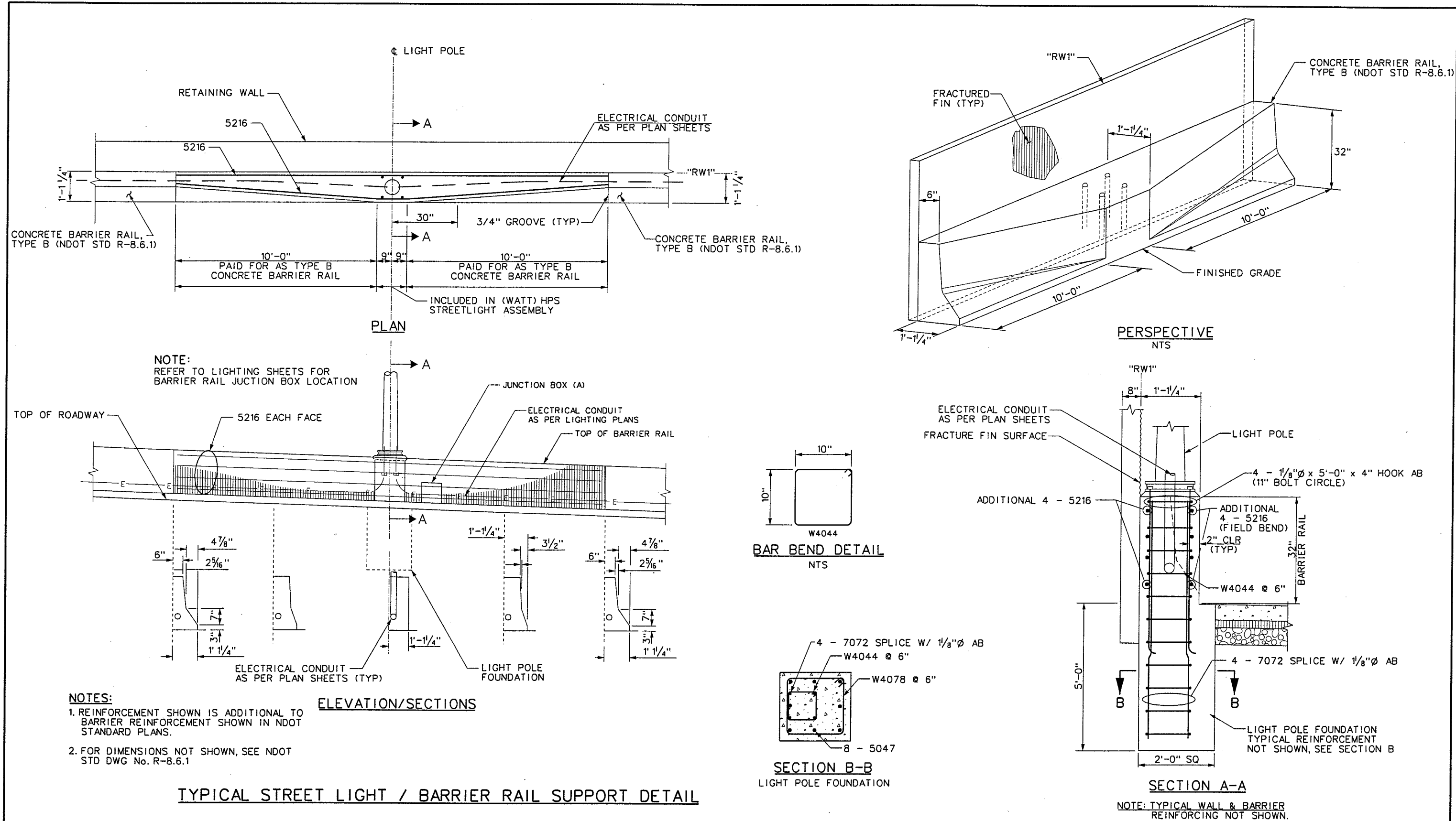
**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

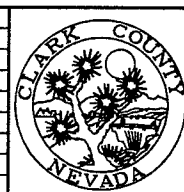
DRAWING NO.
DT-11
OF
L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: d51-border.mst - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\interm\details\851-SP-DT-01.dgn ~ 4/15/2002 ~ 9:50:56 JHG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
SPECIAL DETAILS
BARRIER RAIL LIGHT POLE SUPPORT
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

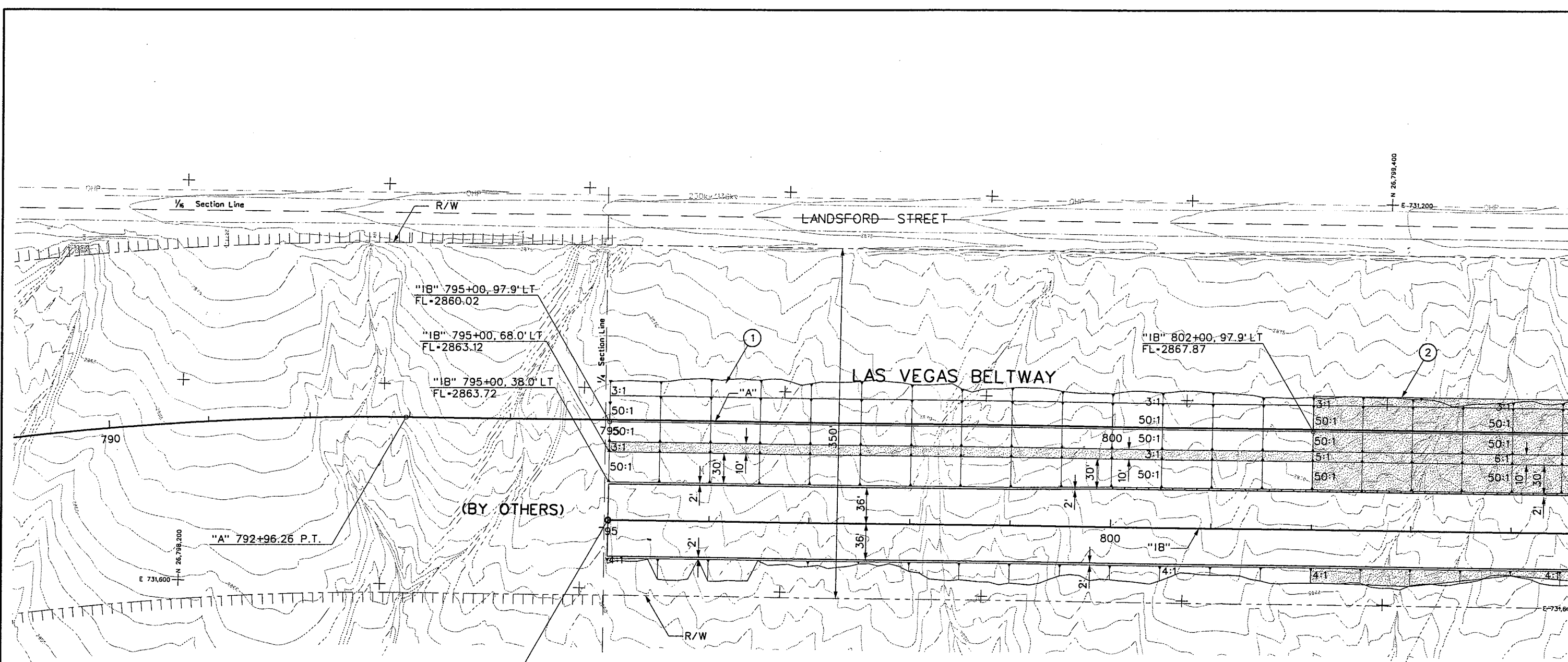
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WSH
DESIGNED BY: MJP/GAG CHECKED BY: MJP
APPROVED BY: TDL
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

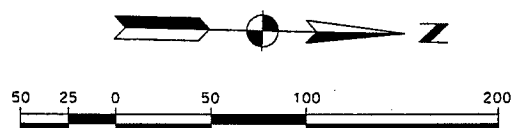
DRAWING NO.
DT-12
OF
L-1695

REFERENCE FILES: 851-CR.D.mst ~ 851-INTERM-NBC-GEOM.mst ~ 851-topo.mst ~ 851-border.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-stamp.mst ~ 851-util.mst ~ 851-INTERM-NBC-ALIGN.mst ~ 851-...-GEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRainage\851-ISO-01.dgn - 4/12/2002 - 16:51:14 RR



BEGIN PROJECT
"IB" 795+00.00 POT-
"A" 795+00.00, (100.00' RT)
MATCH PROPOSED (BY OTHERS)

- ① "IB" 795+00.00 TO "IB" 802+00.00 CONSTRUCT 40' WIDE CHANNEL W/SOIL CEMENT BANK, 97.9' LT
- ② "IB" 802+00.00 TO "IB" 809+00.00 CONSTRUCT SOIL CEMENT LINED CHANNEL, 97.9' LT



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 795+00.00 TO "A" 804+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

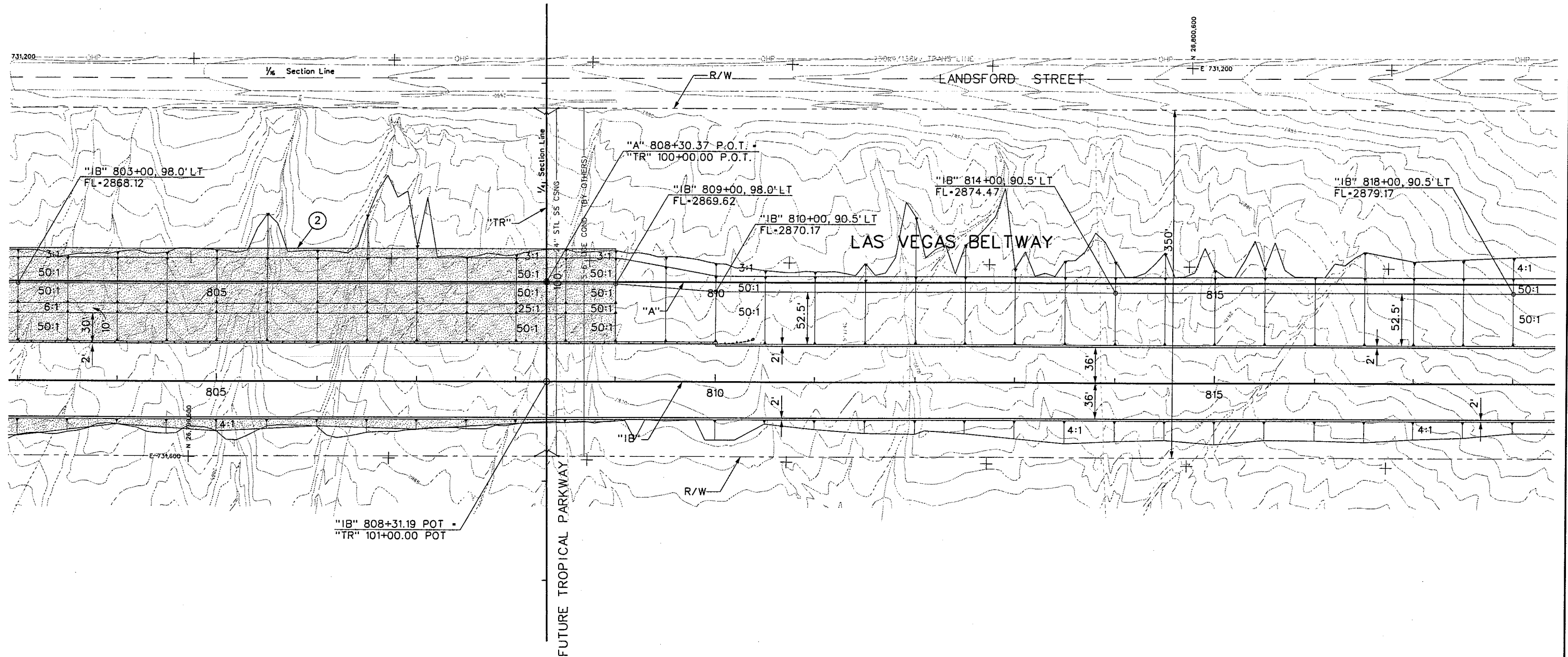
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-1
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

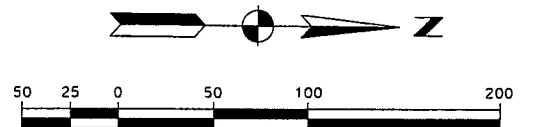


THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILES: 851-INTER-HBC-ALIG.mst ~ 851-topo.mst ~ 851-border.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-internal.mst ~ 851-sump.mst ~ 851-INTER-HBC-CEOM.mst ~ 851-utility.mst ~ 851-INT-GEOM.mst ~ 851-GRID.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-SD-02.dgn - 4/2/2002 - 16:46:56 RR



② "IB" 802+00.00 TO "IB" 809+00.00 CONSTRUCT SOIL CEMENT LINED CHANNEL, 97.9' LT



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 804+00.00 TO "A" 818+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

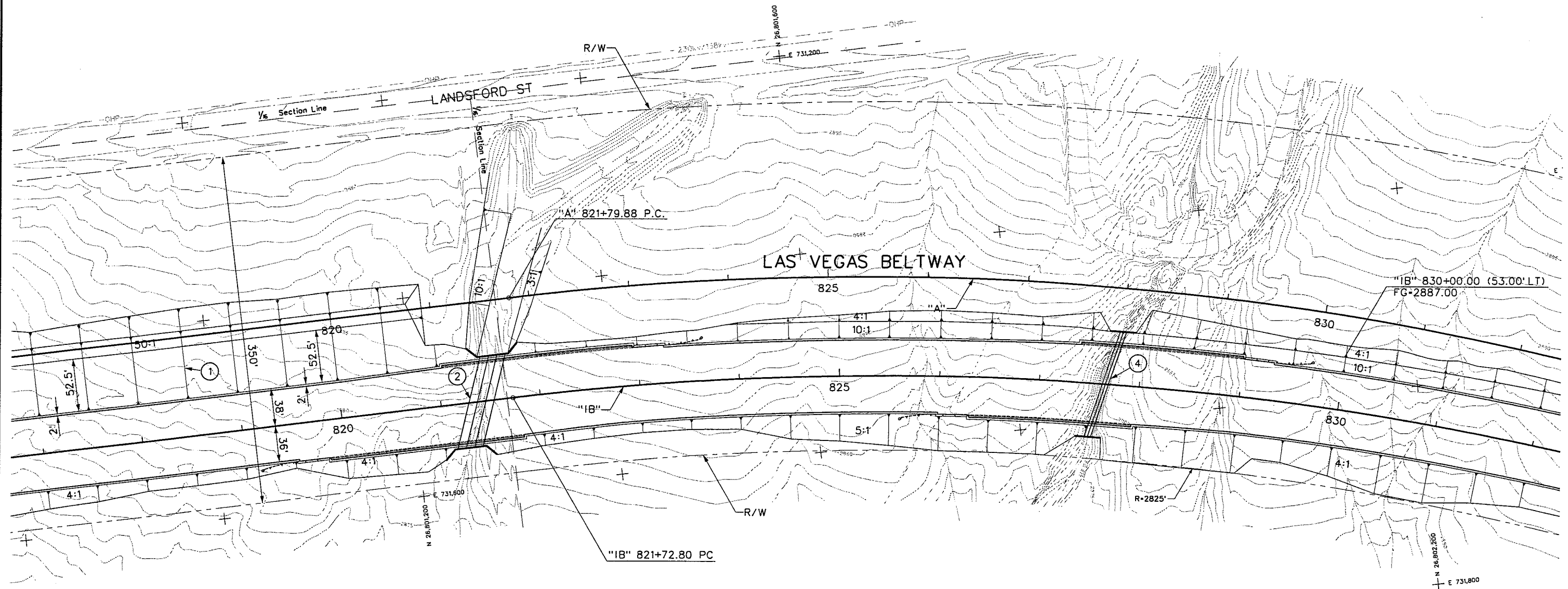
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-2
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

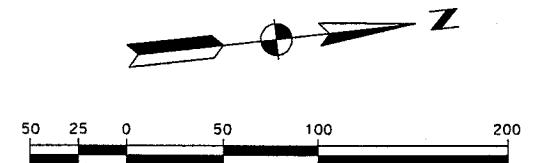


THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

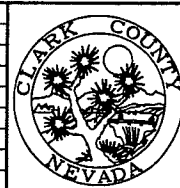
REFERENCE FILES: 851-GRID.mst ~ 851-INTERM-HBC-GEOM.mst ~ 851-topo.mst ~ 851-util.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-stomp.mst ~ 851-border.mst ~ 851-INTERM-HBC-AI (CN).mst ~ 851-internalign.mst ~ 851-INT-GEOM.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-SD-03.dgn - 4/15/2002 - 11:29:06 WFD



- ① "1B" 818+00.00 TO "1B" 820+71.00 CONSTRUCT 52.5' WIDE EARTHEN CHANNEL
- ② "1B" 821+41.00 CONSTRUCT 3-8' X 5' X 94' RCB W/HEADWALLS AND RIPRAP BASIN (SEE SHEET SD-32)
- ③ NOT USED
- ④ "1B" 827+68.00 CONSTRUCT 72" X 110' RCP W/HEADWALLS AND RIPRAP BASIN (SEE SHEET SD-32)



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 818+00.00 TO "A" 832+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

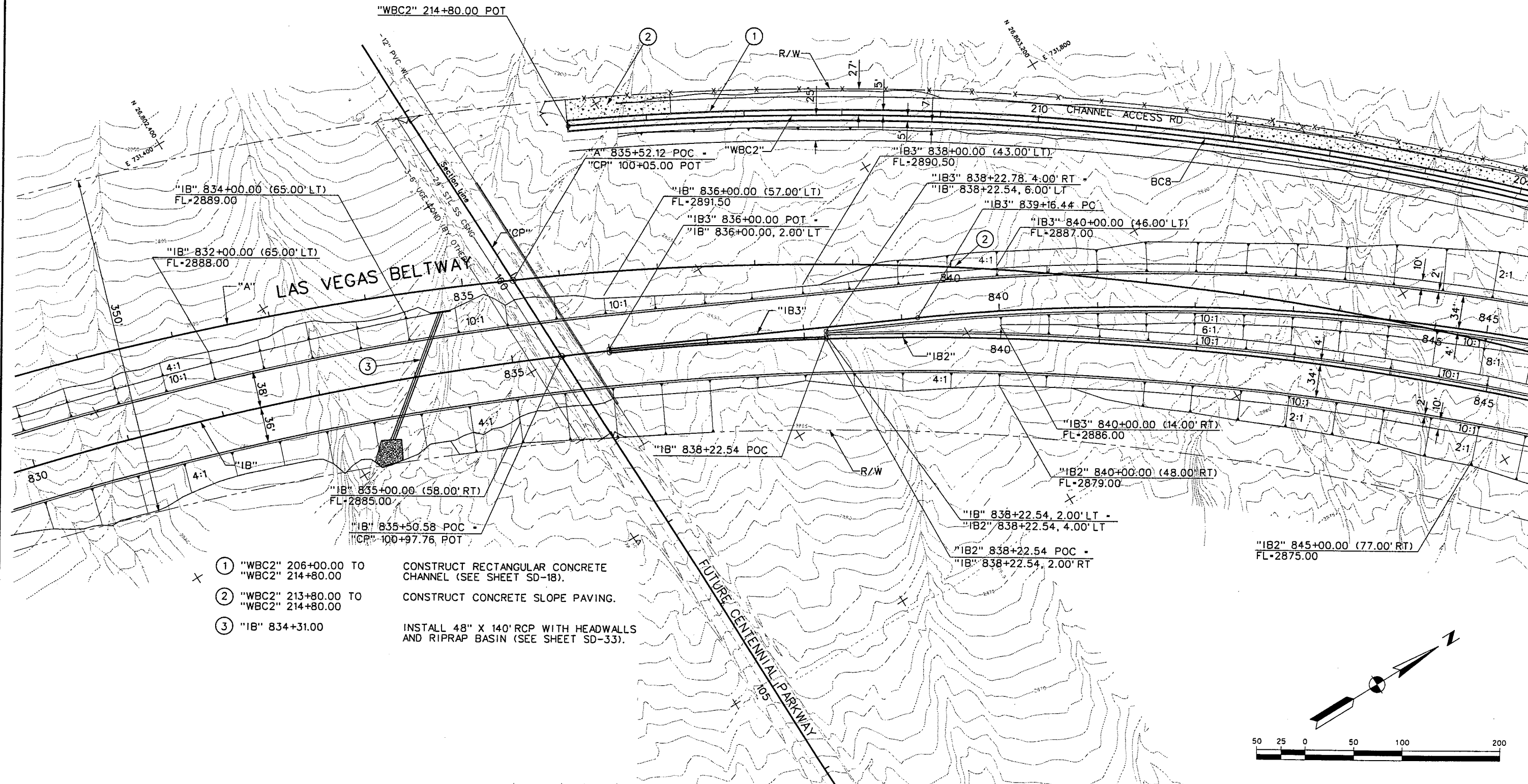
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-3
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-DRAINAGE.MST ~ 851-INTERM-ABC-ALGN.MST ~ 851-TOPOG.MST ~ 851-CONTOURS.MST ~ 851-ROW.MST ~ 851-GRID.MST ~ 851-TEMP.MST ~ 851-INT-GEOM.MST ~ 851-INTERM-ABC-CEOM.MST ~ 851-INT-GEOM.MST
FILE NAME: V:\851 Ann Rd to El Capitan\interm\DRAINAGE\851-ISO-04.dgn ~ 4/12/2002 ~ 11:31:29 RR

CHANNEL CURVE DATA				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC8	3148.00'	2382.66'	1251.66'	43° 21'58"



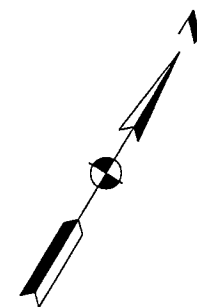
- ① "WBC2" 206+00.00 TO "WBC2" 214+80.00 CONSTRUCT RECTANGULAR CONCRETE CHANNEL (SEE SHEET SD-18).
- ② "WBC2" 213+80.00 TO "WBC2" 214+80.00 CONSTRUCT CONCRETE SLOPE PAVING.
- ③ "IB" 834+31.00 INSTALL 48" X 140' RCP WITH HEADWALLS AND RIPRAP BASIN (SEE SHEET SD-33).



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 832+00.00 TO "A" 845+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-4
APPROVED BY: TDL		VERT: NONE	OF
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695



- CHANNEL CURVE DATA

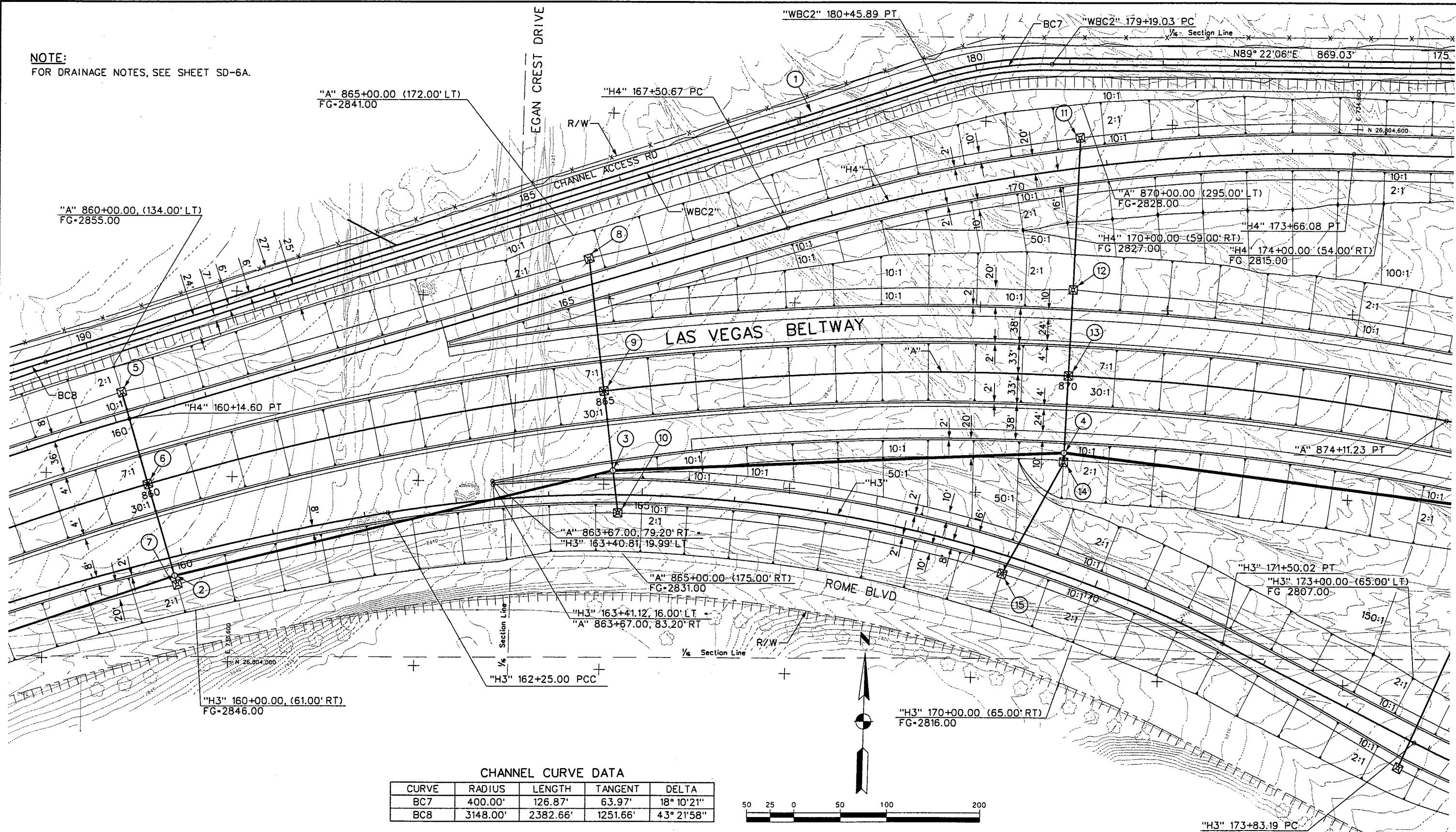
90%
PRELIMINARY
4-12-02

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
SD-5
OF
L-1695

REFERENCE FILE: 851-DRAINAGE.MST ~ 851-internalign.mst ~ 851-topo.mst ~ 851-contours.mst ~ 851-border.mst ~ 851-ROW.MST ~ 851-INT-Geo.MST ~ 851-stump.mst ~ 851-INTERM-HBC-AL-CN.mst ~ 851-INT-HBC-CEOM.mst ~ 851-GRID.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-ISO-06.dgn ~ 4/11/2002 ~ 11:32:07 RR V1

NOTE:
FOR DRAINAGE NOTES, SEE SHEET SD-6A.



CHANNEL CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC7	400.00'	126.87'	63.97'	18° 10' 21"
BC8	3148.00'	2382.66'	1251.66'	43° 21' 58"

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 859+00.00 TO "A" 874+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: GFV
DESIGNED BY: PLC CHECKED BY: SJD
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
SD-6
OF
L-1695

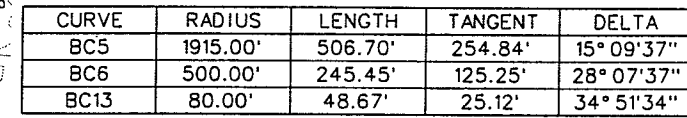
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FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-I-SD-06.dgn - 4/11/2002 - 8:11:14 JR V2

- | | | | |
|--|--|------------------|---|
| ① "WBC2" 175+00.00 TO "WBC2" 191+00.00 | CONSTRUCT 10' WIDE RECTANGULAR CONCRETE CHANNEL (SEE SHEET SD-20). | ⑨ "A" 865+00.00 | CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON. INSTALL 18" X 83' RCP (SEE SHEET SD-34). |
| ② "A" 860+00.00 | CONSTRUCT TYPE 2 MH 101.00' RT INSTALL 30" X 482' RCP (SEE SHEET SD-27). | ⑩ "A" 865+00.00 | CONSTRUCT TYPE 2A DI 132.00' RT WITH CONCRETE APRON. INSTALL 18" X 43' RCP (SEE SHEET SD-34). |
| ③ "A" 865+00.00 | CONSTRUCT TYPE 2 MH 86.00' RT INSTALL 30" X 480' RCP (SEE SHEET SD-28). | ⑪ "H4" 170+75.00 | CONSTRUCT TYPE 2A DI 32.00' LT WITH CONCRETE APRON. INSTALL 18" X 162' RCP (SEE SHEET SD-34). |
| ④ "A" 870+00.00 | CONSTRUCT TYPE 2 MH 81.00' RT INSTALL 36" X 482' RCP (SEE SHEET SD-28). | ⑫ "A" 870+00.00 | CONSTRUCT TYPE 2A DI 91.00' LT WITH CONCRETE APRON. INSTALL 18" X 88' RCP (SEE SHEET SD-34). |
| ⑤ "A" 860+00.00 | CONSTRUCT TYPE 2A DI 101.00' LT WITH CONCRETE APRON. INSTALL 18" X 98' RCP (SEE SHEET SD-34). | ⑬ "A" 870+00.00 | CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON. INSTALL 18" X 78' RCP (SEE SHEET SD-34). |
| ⑥ "A" 860+00.00 | CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON. INSTALL 18" X 97' RCP (SEE SHEET SD-34). | ⑭ "A" 870+00.00 | CONSTRUCT TYPE 2A DI 91.00' RT WITH CONCRETE APRON. INSTALL 18" X 6' RCP (SEE SHEET SD-34). |
| ⑦ "A" 860+00.00 | CONSTRUCT TYPE 2A DI 111.00' RT WITH CONCRETE APRON. INSTALL 18" X 6' RCP (SEE SHEET SD-34). | ⑮ "H3" 169+00.00 | CONSTRUCT TYPE 2A DI 20.00' RT WITH CONCRETE APRON. INSTALL 18" X 134' RCP (SEE SHEET SD-34). |
| ⑧ "A" 865+00.00 | CONSTRUCT TYPE 2A DI 144.00' LT WITH CONCRETE APRON. INSTALL 18" X 141' RCP (SEE SHEET SD-34). | | |

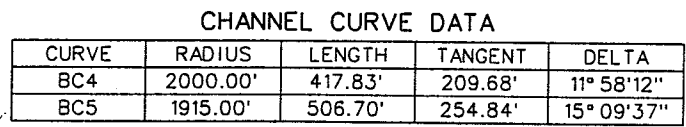
NOTE:
FOR GRADING AND DRAINAGE PLAN,
SEE SHEET SD-6.

REV. NO.		DATE	DESCRIPTION	APPROVED		WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY DRAINAGE NOTES "A" 859+00.00 TO "A" 874+00.00 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS	90% PRELIMINARY 3-29-02	PROJECT NO: 851	DRAWN BY: WSH	SCALE	DRAWING NO.
								DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: NONE	SD-6A
								APPROVED BY: TDL		VERT: NONE	OF
									THE LOUIS BERGER GROUP, INC.	FIELD BOOK	
								LAS VEGAS, NEVADA			L-1695

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY



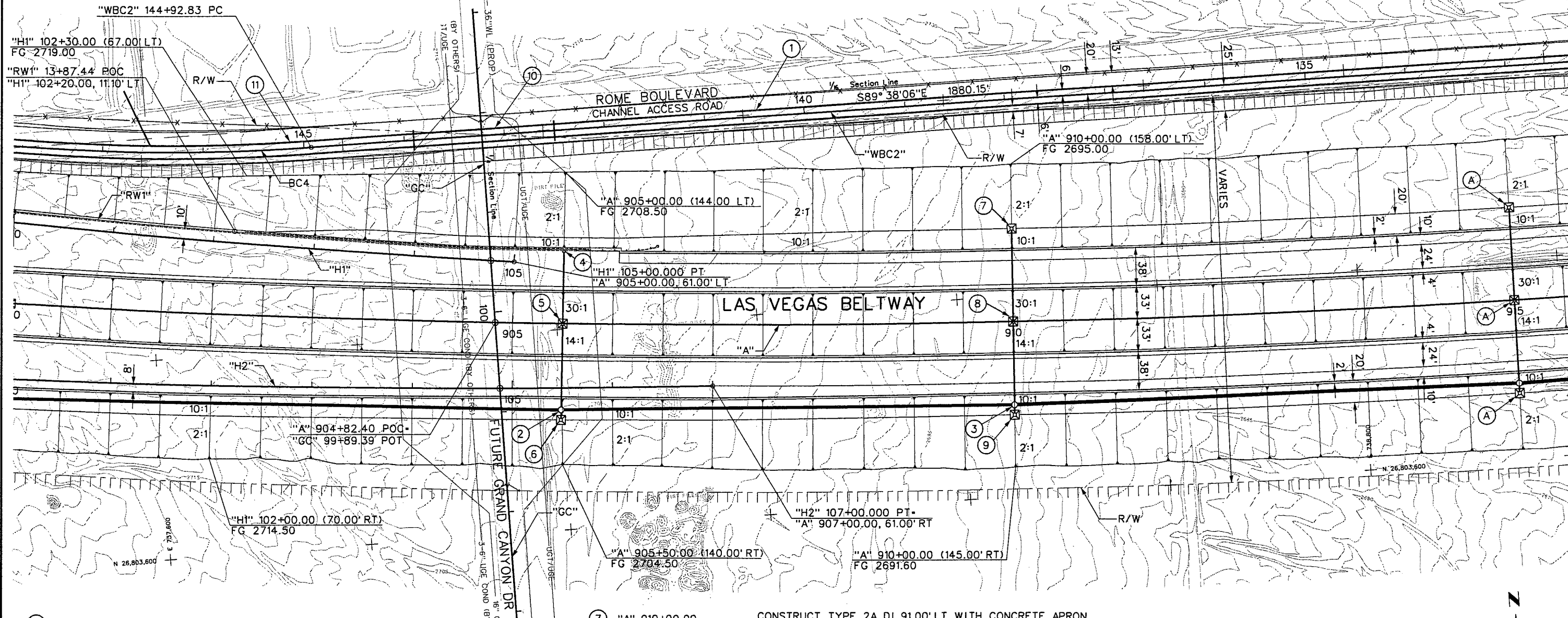
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>REV. NO.</td><td>DATE</td><td>DESCRIPTION</td><td>APPROVED</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>				REV. NO.	DATE	DESCRIPTION	APPROVED															WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY GRADING AND DRAINAGE PLAN "A" 874+00.00 TO "A" 888+00.00 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS		90% PRELIMINARY 4-12-02		PROJECT NO: <u>851</u> DRAWN BY: <u>GFV</u>		SCALE		DRAWING NO.	
				REV. NO.	DATE	DESCRIPTION	APPROVED																								
DESIGNED BY: <u>PLC</u> CHECKED BY: <u>SJD</u>		HORIZ: AS SHOWN		SD-8																											
APPROVED BY: <u>TDL</u>		VERT: NONE																													
		THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK		OF																									
L-1695																															



-

FILE NAME: V:\B51						WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY GRADING AND DRAINAGE PLAN "A" 887+00.00 TO "A" 902+00.00 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS	90% PRELIMINARY 4-12-02	PROJECT NO: <u>851</u>	DRAWN BY: <u>GFV</u>	SCALE	DRAWING NO. SD-9 OF		
													HORIZ: AS SHOWN
												VERT: NONE	
	REV. NO.	DATE	DESCRIPTION	APPROVED								 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	FIELD BOOK

REFERENCE FILES: 851-GRD.mst ~ 851-INT-DRAINAGE.MST ~ 851-topo.mst ~ 851-border.mst ~ 851-ROW.MST ~ 851-UTIL.MST ~ 851-contours.mst ~ 851-INTERM-NBC-GEOM.mst ~ 851-INTERM-NBC-ALCN.mst ~ 851-INTERM-NBC-GEOM.mst ~ 851-INT-CEOM.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-INT-DR-10.dgn ~ 4/12/2002 ~ 14:52:10 WFD



- ① "WBC2" 134+00.00 TO "WBC2" 142+50.00 CONSTRUCT RECTANGULAR CONCRETE CHANNEL (SEE SHEET SD-23).
- ② "A" 905+50.00 CONSTRUCT TYPE 2 MH 84.00' RT INSTALL 36" X 447' RCP (SEE SHEET SD-29).
- ③ "A" 910+00.00 CONSTRUCT TYPE 2 MH 81.00' RT INSTALL 42" X 498' RCP (SEE SHEET SD-30).
- ④ "A" 905+50.00 CONSTRUCT TYPE 2 DI 73.00' LT WITH 12" X 10' SLOTTED DRAIN, INSTALL 18" X 70' RCP (SEE SHEET SD-37).
- ⑤ "A" 905+50.00 CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON, INSTALL 18" X 80' RCP (SEE SHEET SD-37).
- ⑥ "A" 905+50.00 CONSTRUCT TYPE 2A DI 94.00' RT WITH CONCRETE APRON, INSTALL 18" X 6' RCP (SEE SHEET SD-37).

- ⑦ "A" 910+00.00 CONSTRUCT TYPE 2A DI 91.00' LT WITH CONCRETE APRON INSTALL 18" X 88' RCP (SEE SHEET SD-37).
- ⑧ "A" 910+00.00 CONSTRUCT TYPE 2A DI 00.00' RT WITH CONCRETE APRON INSTALL 18" X 77' RCP (SEE SHEET SD-37).
- ⑨ "A" 910+00.00 CONSTRUCT TYPE 2A DI 91.00' RT WITH CONCRETE APRON INSTALL 18" X 6' RCP (SEE SHEET SD-37).
- ⑩ "WBC2" 142+50.00 TO "WBC2" 143+90.00 CONSTRUCT 12' X 6' RCB (SEE SHEET SD-23).
- ⑪ "WBC2" 143+90.00 TO "WBC2" 147+00.00 CONSTRUCT RECTANGULAR CONCRETE CHANNEL (SEE SHEET SD-23).
- (A) FOR CONSTRUCTION NOTES SEE SHEET SD-11.

CHANNEL CURVE DATA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC4	2000.00'	417.83'	209.68'	11° 58' 12"



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 902+00.00 TO "A" 915+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

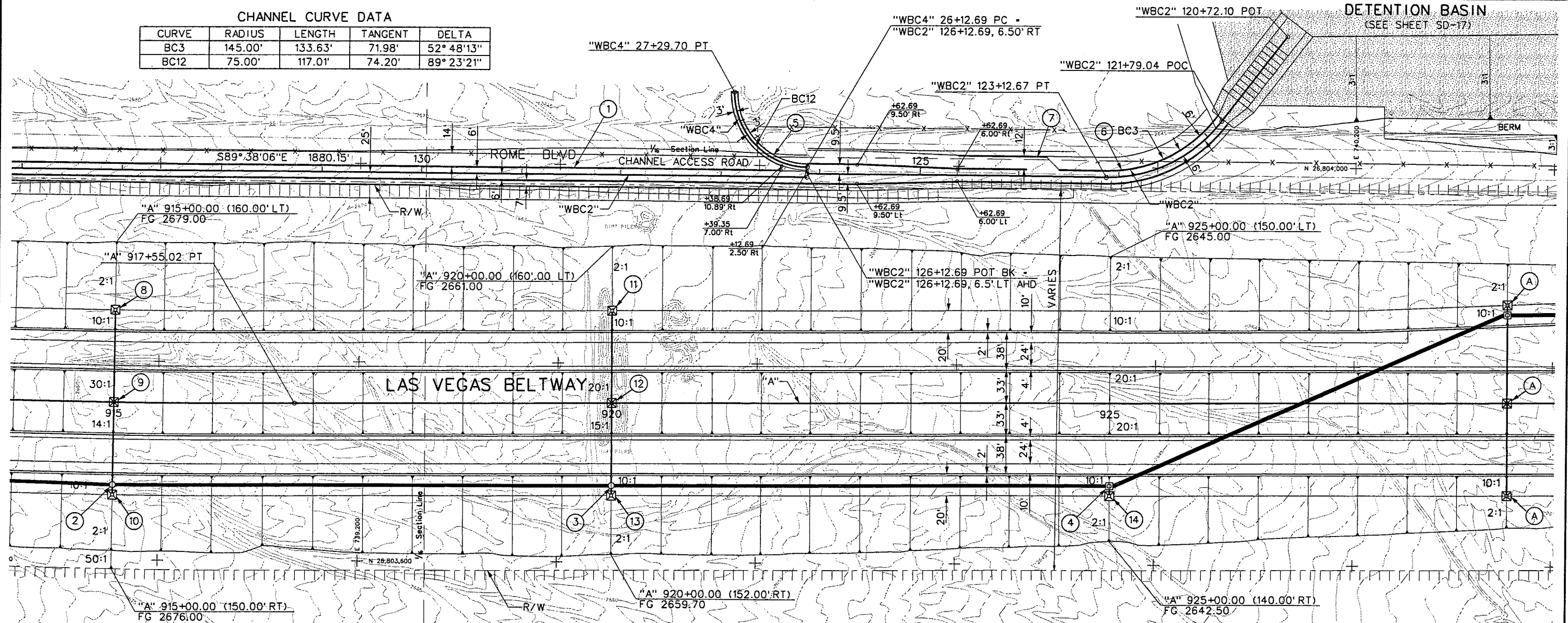
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-10
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC3	145.00'	133.63'	71.98'	52° 48'13"
BC12	75.00'	117.01'	74.20'	89° 23'21"



- | | | | | | |
|--|---|--|--|-----------------|---|
| ① "WBC2" 123+12.67 TO "WBC2" 134+00.00 | CONSTRUCT RECTANGULAR CONCRETE CHANNEL (SEE SHEET SD-24) | ⑦ "WBC2" 123+60.00 TO "WBC2" 124+62.00 | CONSTRUCT ACCESS RAMP (SEE SHEET SD-47) | ⑫ "A" 920+00.00 | CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON, INSTALL 18" X 77' RCP (SEE SHEET SD-37). |
| ② "A" 915+00.00 | CONSTRUCT TYPE 2 MH 81.00' RT
INSTALL 42" X 496' RCP (SEE SHEET SD-30) | ⑧ "A" 915+00.00 | CONSTRUCT TYPE 2A DI 91.00' LT WITH CONCRETE APRON, INSTALL 18" X 88' RCP (SEE SHEET SD-37). | ⑬ "A" 920+00.00 | CONSTRUCT TYPE 2A DI 91.00' RT WITH CONCRETE APRON, INSTALL 18" X 6' RCP (SEE SHEET SD-37). |
| ③ "A" 920+00.00 | CONSTRUCT TYPE 2 MH 81.00' RT
INSTALL 42" X 494' RCP (SEE SHEET SD-30) | ⑨ "A" 915+00.00 | CONSTRUCT TYPE 2A DI 0.00' RT WITH CONCRETE APRON, INSTALL 18" X 77' RCP (SEE SHEET SD-37). | ⑭ "A" 925+00.00 | CONSTRUCT TYPE 2A DI 91.00' RT WITH CONCRETE APRON, INSTALL 18" X 6' RCP (SEE SHEET SD-37). |
| ④ "A" 925+00.00 | CONSTRUCT TYPE 4 MH 81.00' RT
INSTALL 48" X 430' RCP (SEE SHEET SD-30) | ⑩ "A" 915+00.00 | CONSTRUCT TYPE 2A DI 91.00' LT WITH CONCRETE APRON, INSTALL 18" X 6' RCP (SEE SHEET SD-37). | Ⓐ | FOR CONSTRUCTION NOTES
SEE SHEET SD-12. |
| ⑤ "WBC4" 26+12.69 TO "WBC4" 27+29.70 | CONSTRUCT 6' X 5' RCB CONNECT TO
RECTANGULAR CONCRETE CHANNEL
(SEE SHEET SD-24) | ⑪ "A" 920+00.00 | CONSTRUCT TYPE 2A DI 91.00' LT WITH CONCRETE APRON, INSTALL 18" X 88' RCP (SEE SHEET SD-37). | | |
| ⑥ "WCB2" 121+79.04 TO "WBC2" 123+12.67 | CONSTRUCT 12' X 6' RCB
(SEE SHEET SD-24) | | | | |
-



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 915+00.00 TO "A" 929+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

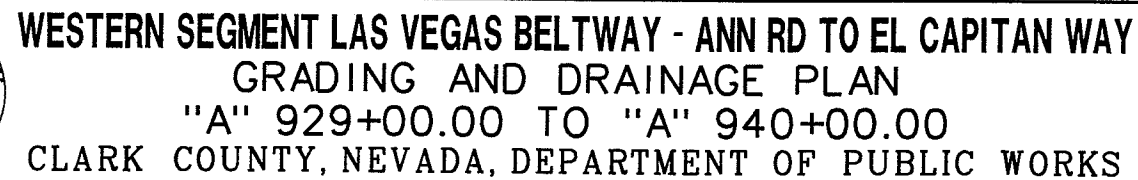
PROJECT NO: 851 DRAWN BY: GFV
DESIGNED BY: PLC CHECKED BY: SJD
APPROVED BY: TDL



**THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

RAWING NO.
SD-11
OF
L-1695



90%
PRELIMINARY
4-12-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>GFV</u>	SCALE HORIZ: <u>AS SHOWN</u> VERT: <u>NONE</u> FIELD BOOK 	DRAWING NO.
DESIGNED BY: <u>PLC</u>	CHECKED BY: <u>SJD</u>		SD-12
APPROVED BY: <u>IDL</u>			OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA			L-1695



- (A) FOR CONSTRUCTION NOTES SEE SHEET SD-12.
- (B) FOR CONSTRUCTION NOTES SEE SHEET SD-14.

CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC1	1500.00'	675.82'	343.74'	25° 48'52"
BC2	725.00'	222.88'	112.33'	17° 36'50"
BC9	500.00'	124.41'	62.53'	14° 15'23"
BC10	500.00'	119.43'	60.00'	13° 41'08"

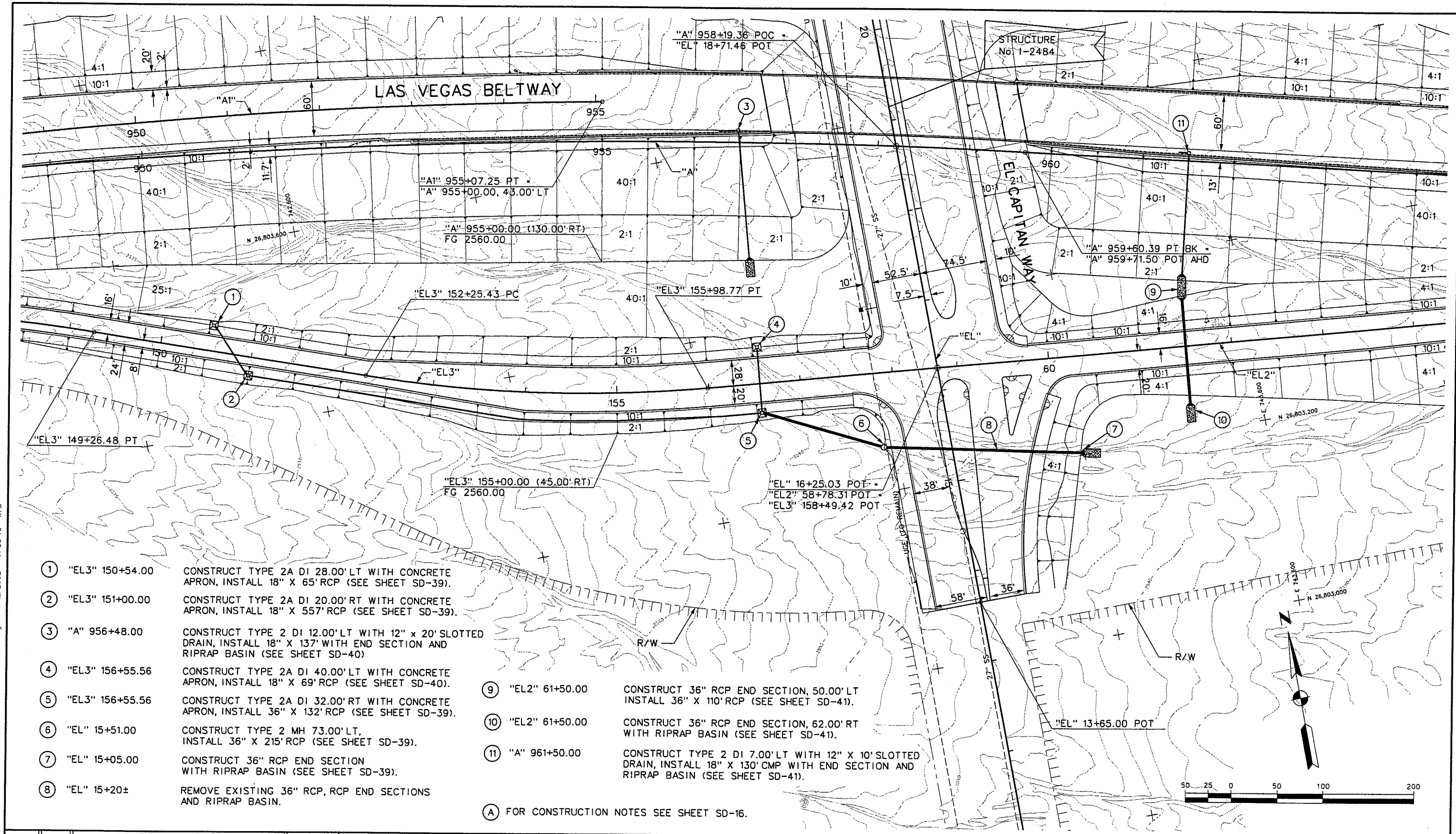


90%
PRELIMINARY
4-12-02

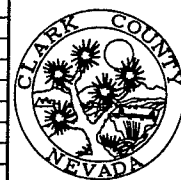
SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
SD-13
OF
L-1695

REFERENCE FILE: 851-INT-GEOMST ~ 851-GRD.MST ~ 851-topo.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-border.mst ~ 851-util.mst ~ 851-stamp.mst ~ 851-internal.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAWING\851-14.dgn ~ 4/12/2002 ~ 14:53:40 WFD



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 949+00.00 TO "A" 964+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-14
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILES.

- ① "WBC1" 90+48.87 TO "WBC1" 91+03.00 TO CONSTRUCT CONCRETE HEADWALL
INSTALL 16' X 6' X 54.13, RCB
(SEE SHEET SD-26)
- ② "WBC1" 91+00.00 TO "WBC1" 91+32.76 TO CONSTRUCT RECTANGULAR CONCRETE
CHANNEL TRANSITION
(SEE SHEET SD-26)
- ③ "WBC1" 91+32.76 TO "WBC1" 98+00.00 TO CONSTRUCT 14' WIDE RECTANGULAR
CONCRETE CHANNEL
(SEE SHEET SD-26)
- ④ "WBC1" 91+69± TO "WBC1" 92+19± TO REMOVE EXISTING TRAPEZOIDAL
CONCRETE CHANNEL
- ⑤ "WBC1" 90+49± TO "WBC1" 91+69± TO REMOVE EXISTING CONCRETE
CHANNEL TRANSITION AND HEADWALL
- ⑥ "WBC1" 88+79± TO "WBC1" 89+29± TO REMOVE EXISTING CONCRETE
CHANNEL TRANSITION AND HEADWALL

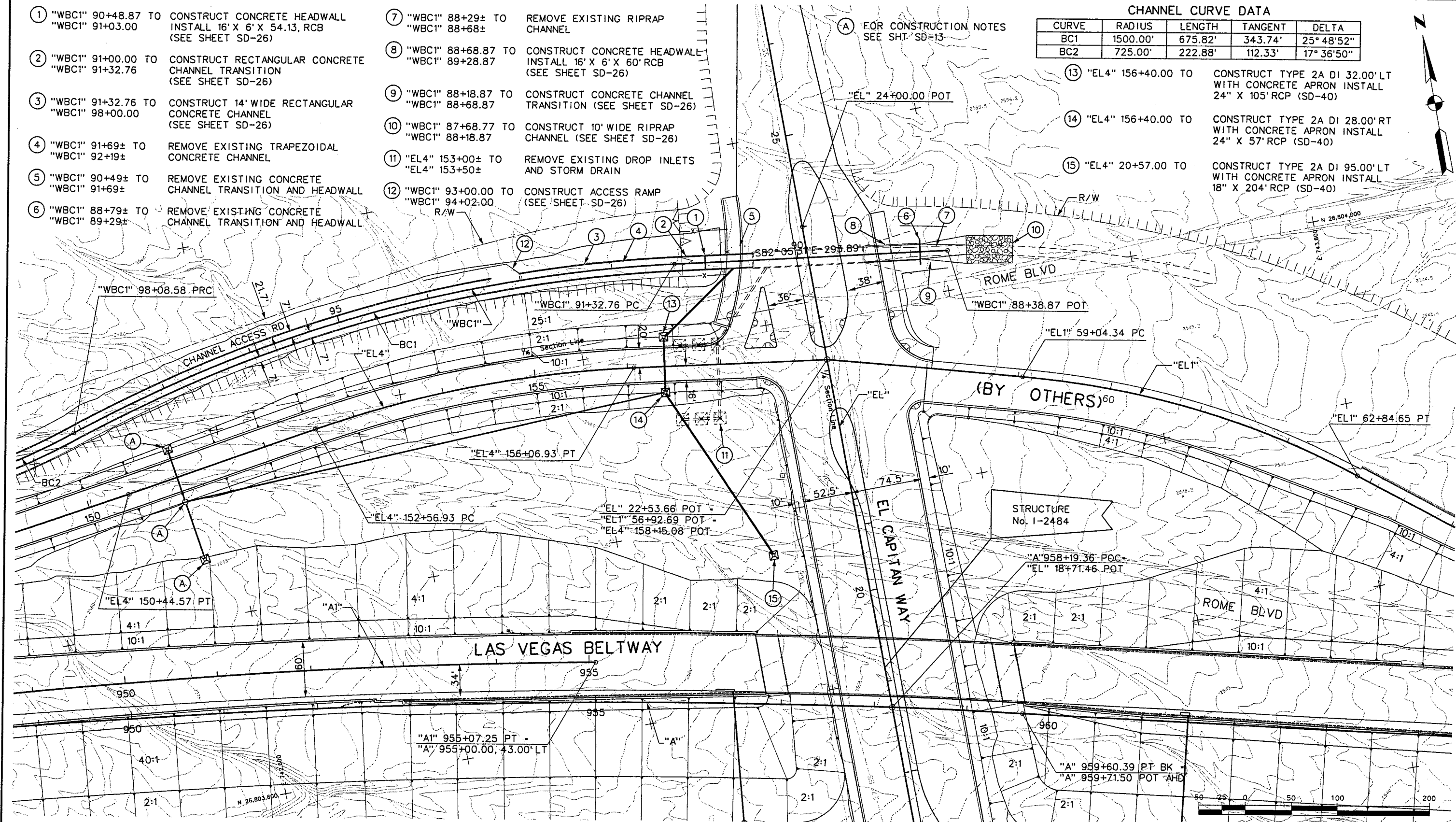
- ⑦ "WBC1" 88+29± TO REMOVE EXISTING RIPRAP
"WBC1" 88+68± CHANNEL
- ⑧ "WBC1" 88+68.87 TO CONSTRUCT CONCRETE HEADWALL
"WBC1" 89+28.87 INSTALL 16' X 6' X 60' RC
(SEE SHEET SD-26)
- ⑨ "WBC1" 88+18.87 TO CONSTRUCT CONCRETE CHANNEL
"WBC1" 88+68.87 TRANSITION (SEE SHEET SD-26)
- ⑩ "WBC1" 87+68.77 TO CONSTRUCT 10' WIDE RIPRAP
"WBC1" 88+18.87 CHANNEL (SEE SHEET SD-26)
- ⑪ "EL4" 153+00± TO REMOVE EXISTING DROP INLETS
"EL4" 153+50± AND STORM DRAIN
- ⑫ "WBC1" 93+00.00 TO CONSTRUCT ACCESS RAMP
"WBC1" 94+02.00 (SEE SHEET SD-26)

CURVE	RADIUS	LENGTH	TANGENT	DELTA
BC1	1500.00'	675.82'	343.74'	25° 48'52"
BC2	725.00'	222.88'	112.33'	17° 36'50"

(13) "EL4" 156+40.00 TO CONSTRUCT TYPE 2A DI 32.00' LT
WITH CONCRETE APRON INSTALL
24" X 105' RCP (SD-40)

(14) "EL4" 156+40.00 TO CONSTRUCT TYPE 2A DI 28.00' RT
WITH CONCRETE APRON INSTALL
24" X 57' RCP (SD-40)

(15) "EL4" 20+57.00 TO CONSTRUCT TYPE 2A DI 95.00' LT
WITH CONCRETE APRON INSTALL
18" X 204' RCP (SD-40)



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 950+00.00 TO "A" 964+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: GFV
DESIGNED BY: PLC CHECKED BY: SJD
APPROVED BY: TDL

 **THE LOUIS BERGER
GROUP, INC.**
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
SD-15
OF
L-1695

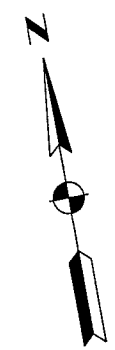
1 "EL2A" 69+97.50
CONSTRUCT TYPE 2 DI 10.00' RT WITH
12" X 10' SLOTTED DRAIN.
INSTALL 18" X 59' CMP WITH END SECTION
AND RIPRAP BASIN (SD-41).

2 "EL2A" 74+00.00
CONSTRUCT TYPE 2A DI 27.00' LT WITH
CONCRETE APRON.
INSTALL 18" X 141' CMP WITH END SECTION
AND RIPRAP BASIN (SD-41).

"EL1" 64+84.65 PC
S51°25'02"E 200.00'
65
10:1
4:1
"EL1" 65+00.00 (55.00' RT)
FC ELEV 2551.00
4:1
10:1
70
68
60
S76°07'08"E 10:1 1314.45'
40:1
2:1
4:1
10:1
S84°14'03"E 771.70'
4:1
"EL2" 66+50.01 PC
"EL2" 69+56.78 PT BK
"EL2A" 69+56.78 POT AHD
"EL2" 69+00.00 (100.00' RT)
FL ELEV 2525.50
R/W
"EL1" 68+30.80 PT
"EL1" 69+29.87, 16.00' RT-
"A" 969+29.48, 80.00' LT
"A" 969+29.48, 73.00' LT-
"EL1" 69+30.46, 22.96' RT
S71°15'00"E 369.20'
70
"EL1" 72+00.00 POT
"A" 972+85.95 PC
S87°43'19"E 163.41'
"EL2A" 71+06.78 PC
"EL2A" 72+74.78 PT
"EL2A" 74+38.19 PC
"EL2A" 76+20.91 PT
"EL2A" 77+55.91 PC
S80°44'32"E 135.00'
S81°18'12"E 150.00'
970 10:1
975 75
1 (MIN)
LAS VEGAS BELTWAY
(BY OTHERS)
N 26,803.000
E 745.000
50 25 0 50 100 200

CONSTRUCT TYPE 2 DI 10.00' RT WITH
12" X 10' SLOTTED DRAIN.
INSTALL 18" X 59' CMP WITH END SECTION
AND RIPRAP BASIN (SD-41).

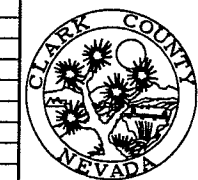
CONSTRUCT TYPE 2A DI 27.00' LT WITH
CONCRETE APRON.
INSTALL 18" X 141' CMP WITH END SECTION
AND RIPRAP BASIN (SD-41).



LAS VEGAS BELTWAY
(BY OTHERS)



FILE NAME: V:\GST			
REV. NO.	DATE	DESCRIPTION	APPROVED



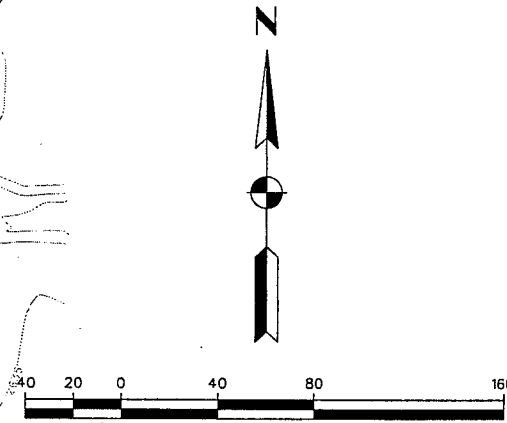
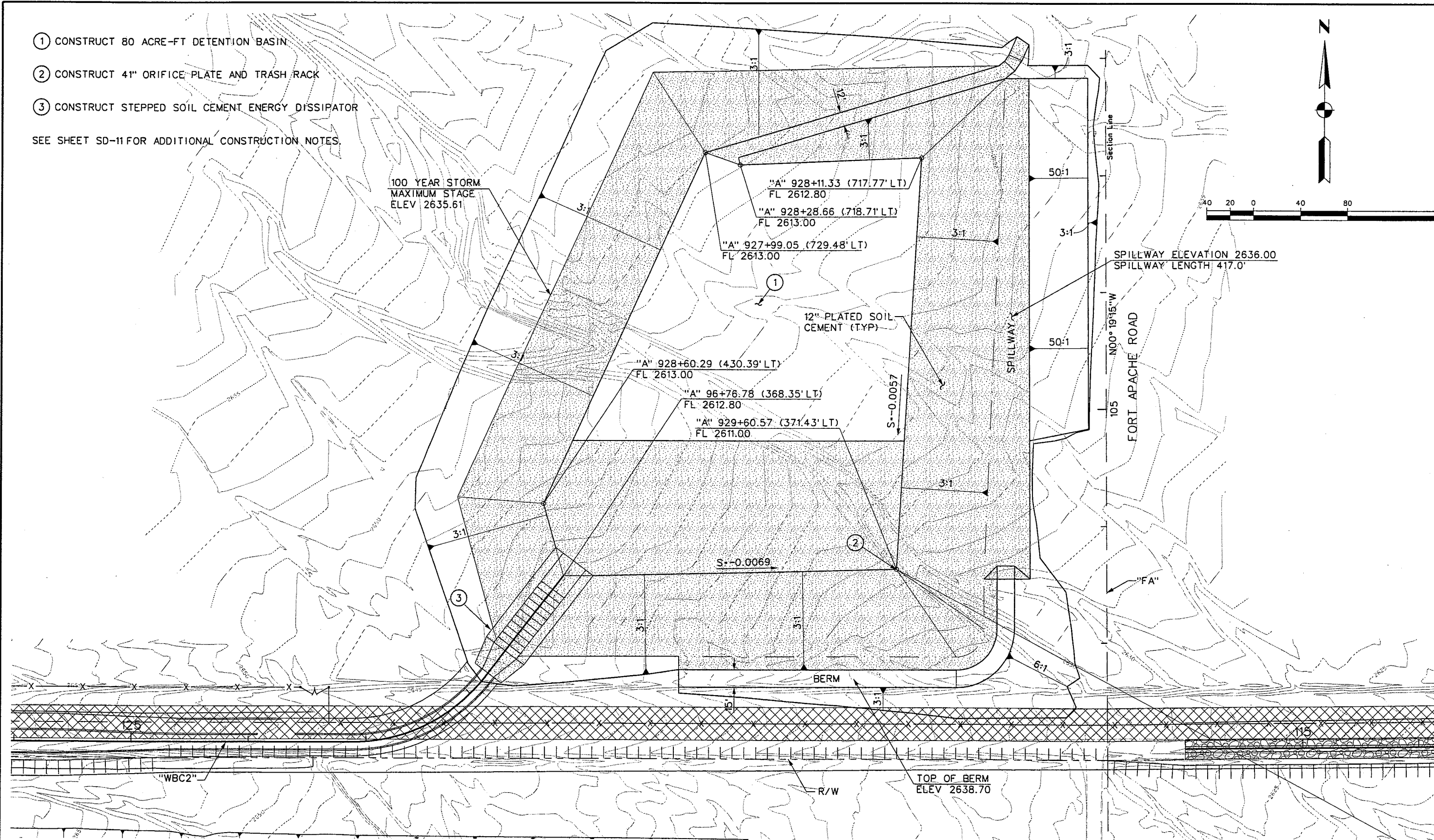
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
GRADING AND DRAINAGE PLAN
"A" 964+00.00 TO "A" 978+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

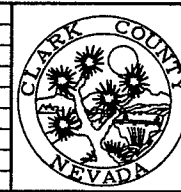
PROJECT NO: <u>851</u>	DRAWN BY: <u>WSH</u>	SCALE	DRAWING NO.
DESIGNED BY: <u>PLC</u>	CHECKED BY: <u>SJD</u>	HORIZ: <u>AS SHOWN</u>	SD-16
APPROVED BY: <u>TDL</u>		VERT: <u>NONE</u>	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	OF
			L-1695

REFERENCE FILE: 851-INTERM-HBC-GEOM.mst ~ 851-INTERM-HBC-ALIGN.mst ~ 851-HOR.mst ~ 851-TOPO.mst ~ 851-CONTOURS.mst ~ 851-ROW.MST ~ 851-INT-C&G.mst ~ 851-INTERNAL-CON.mst ~ 851-STAMP.mst ~ 851-DEL-BASIN.dgn ~ 851-I-DRAINAGE.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRainage\851-ISO-17.dgn ~ 3/8/2002 ~ 11:45:46 GFV

- ① CONSTRUCT 80 ACRE-FT DETENTION BASIN
 - ② CONSTRUCT 41" ORIFICE PLATE AND TRASH RACK
 - ③ CONSTRUCT STEPPED SOIL CEMENT ENERGY DISSIPATOR
- SEE SHEET SD-11 FOR ADDITIONAL CONSTRUCTION NOTES.



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PLAN
FORT APACHE DETENTION BASIN
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: FKR	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-17
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

