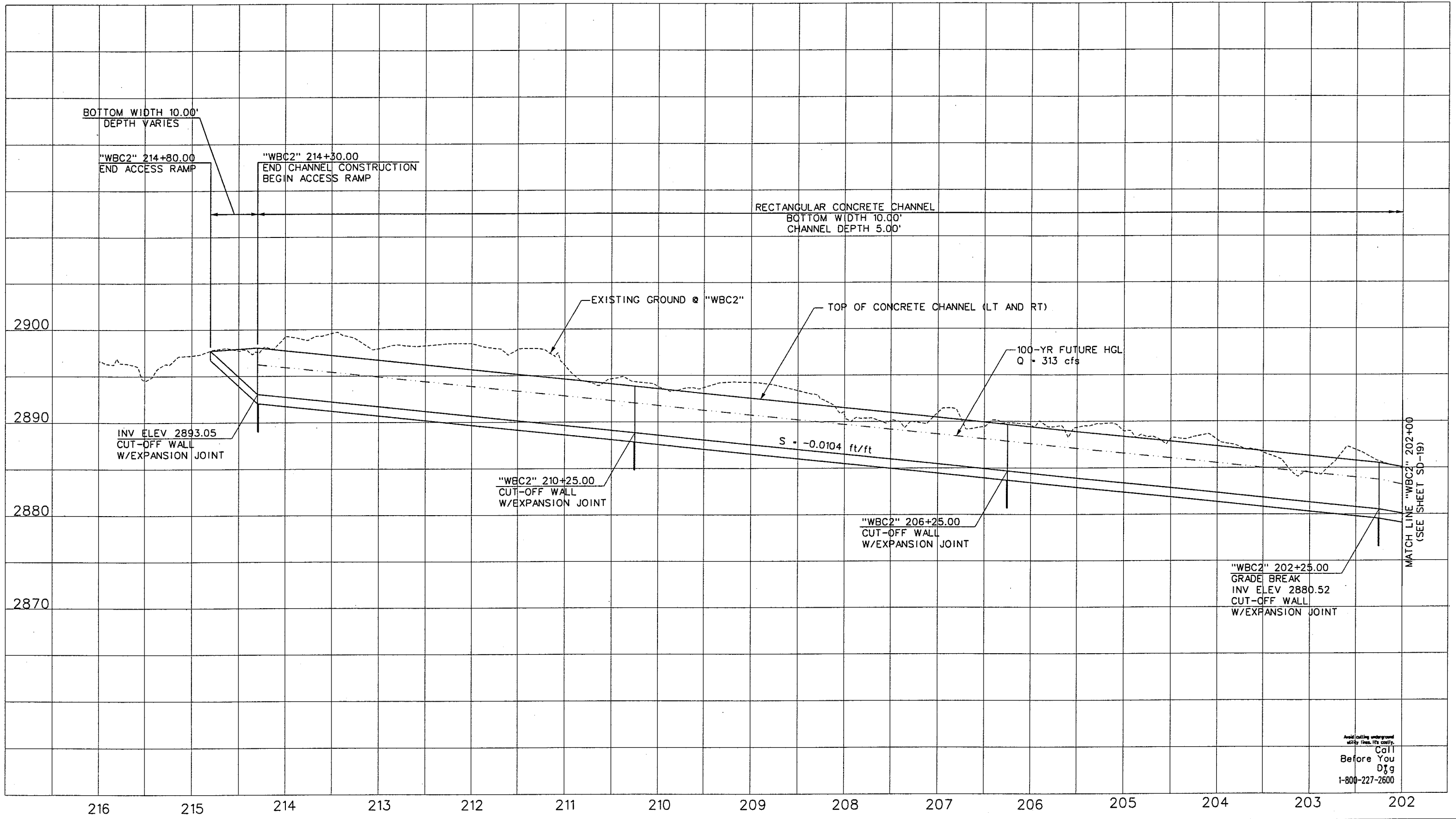


REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-INT-wbc2-pro01.dgn ~ 4/11/2002 ~ 11:19:15 GFV



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

REV. NO.	DATE	DESCRIPTION	APPROVED

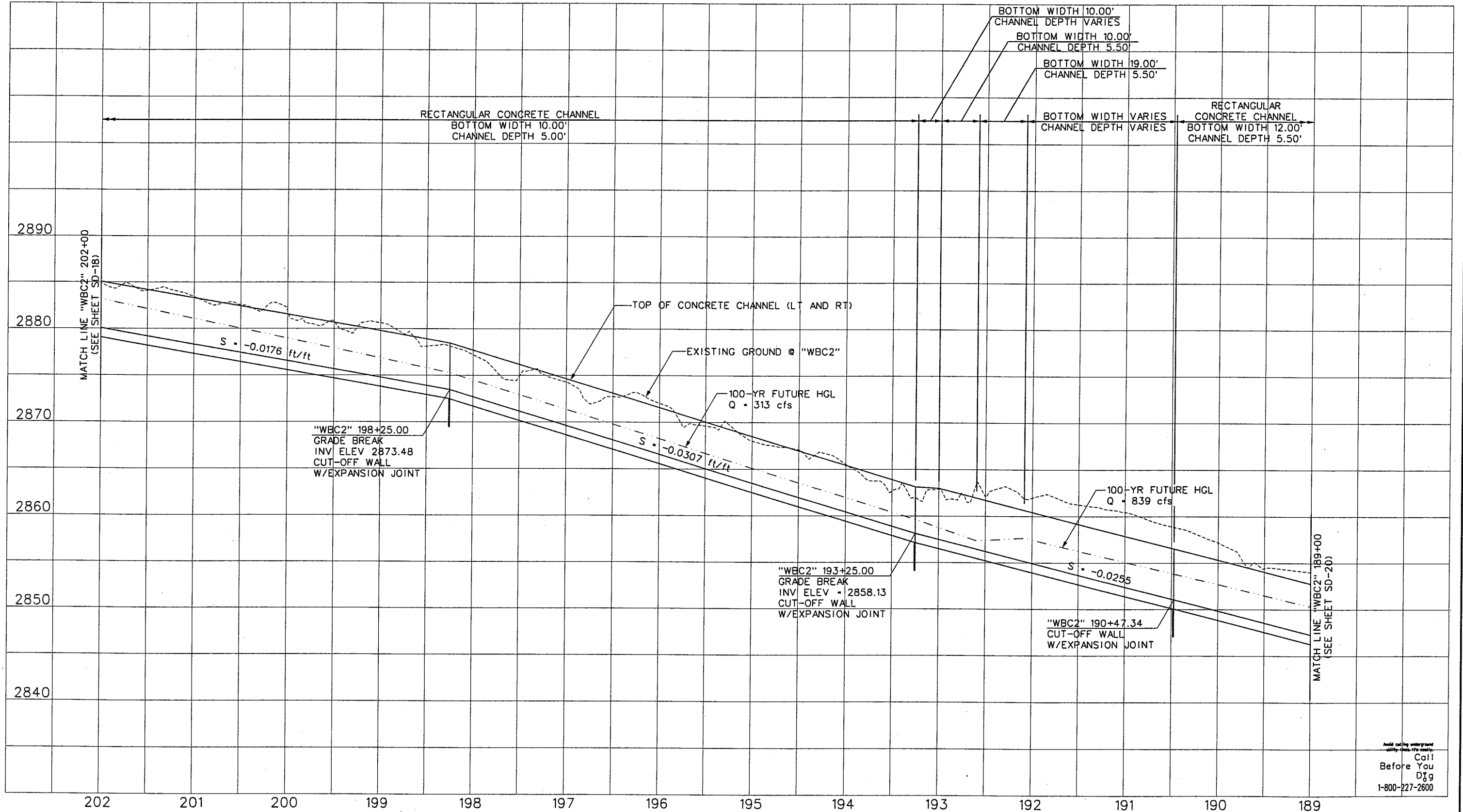


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 215+60.00 TO "WBC2" 202+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO. SD-18
DESIGNED BY: RRB	CHECKED BY: SJD	HORIZ: AS SHOWN	OF
APPROVED BY: TDL		VERT: AS SHOWN	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	L-1695

REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\RAINAGE\851-INT-wbc2-pro02.dgn - 4/10/2002 - 15:59:26 WFD



Hold calling underground utility lines until after 11:00 AM
Call Before You Dig
1-800-227-2600

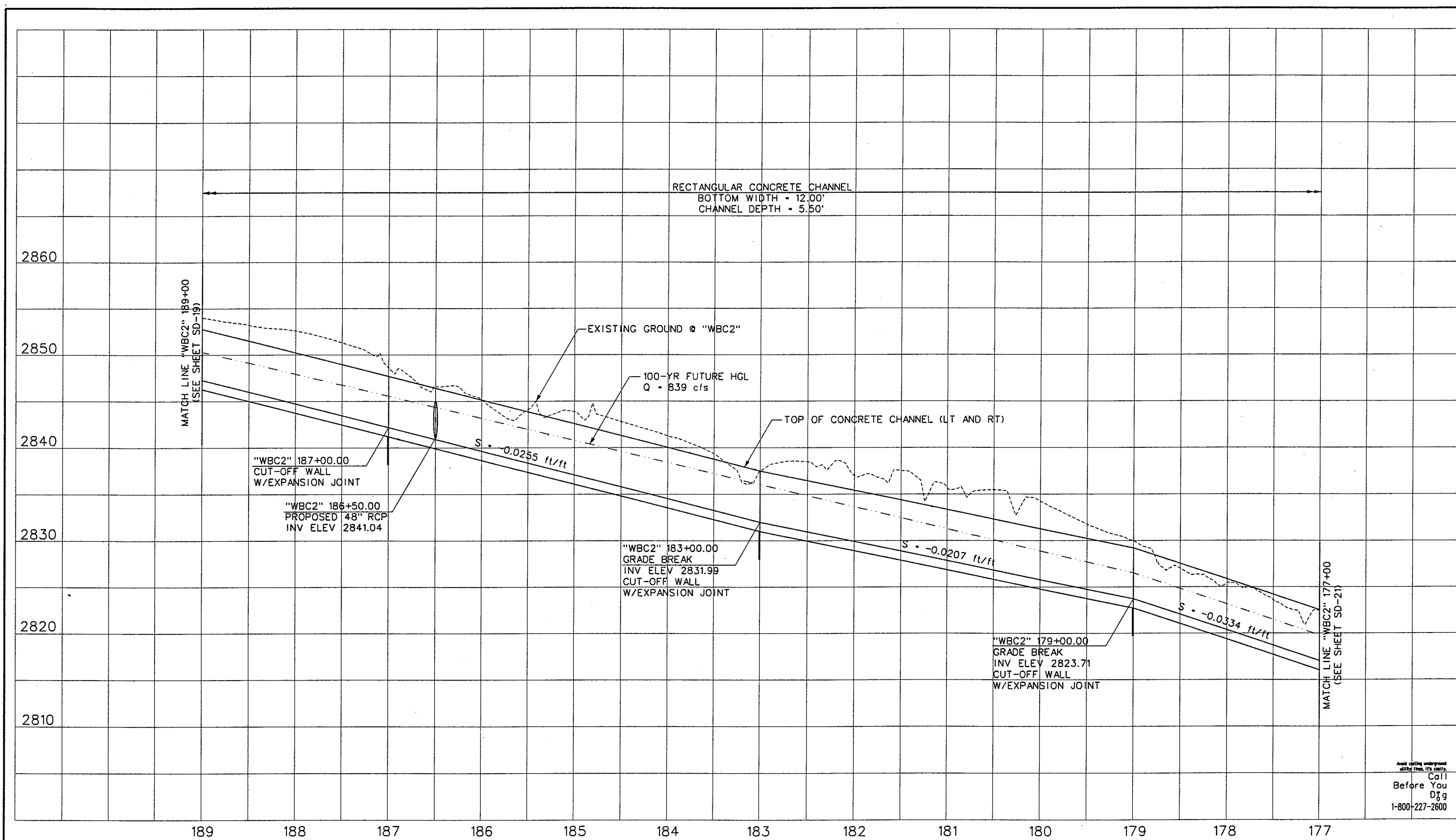


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 202+00.00 TO "WBC2" 189+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: RRB	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-19
APPROVED BY: TDL		VERT: AS SHOWN	OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695

REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stomp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\RAINAGE\Profiles\851-INT-wbc2-pro03.dgn - 4/9/2002 - 15:00:16 WFD



And calling underground
utility lines, etc.
Call
Before You
Dig
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 189+00.00 TO "WBC2" 177+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

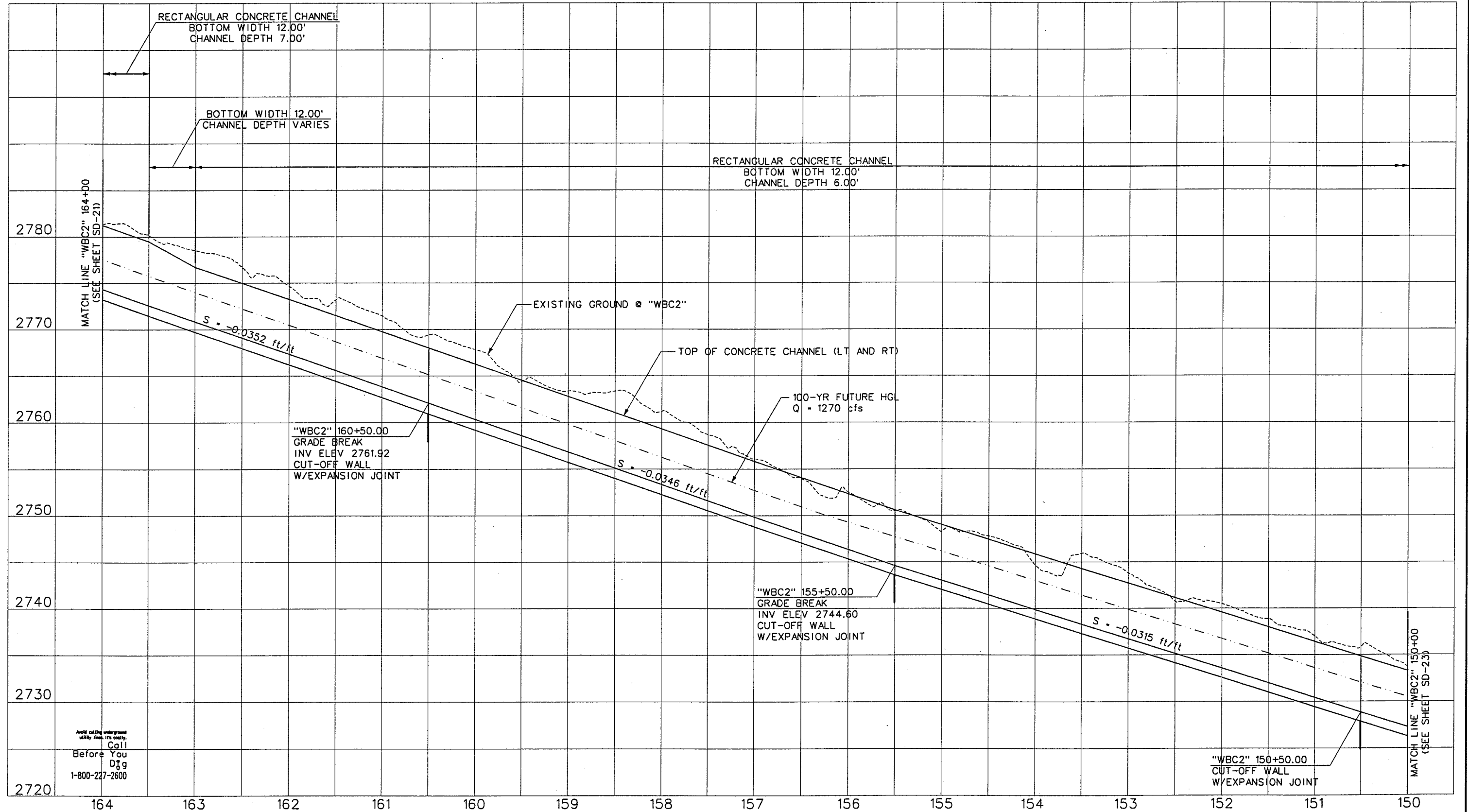
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: RRB	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-20
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stop.mst

FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-INT-wbc2-pro05.dgn - 4/11/2002 - 16:02:12 WFO



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 164+00.00 TO "WBC2" 150+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFO
DESIGNED BY: RRB CHECKED BY: SJD
APPROVED BY: TDL

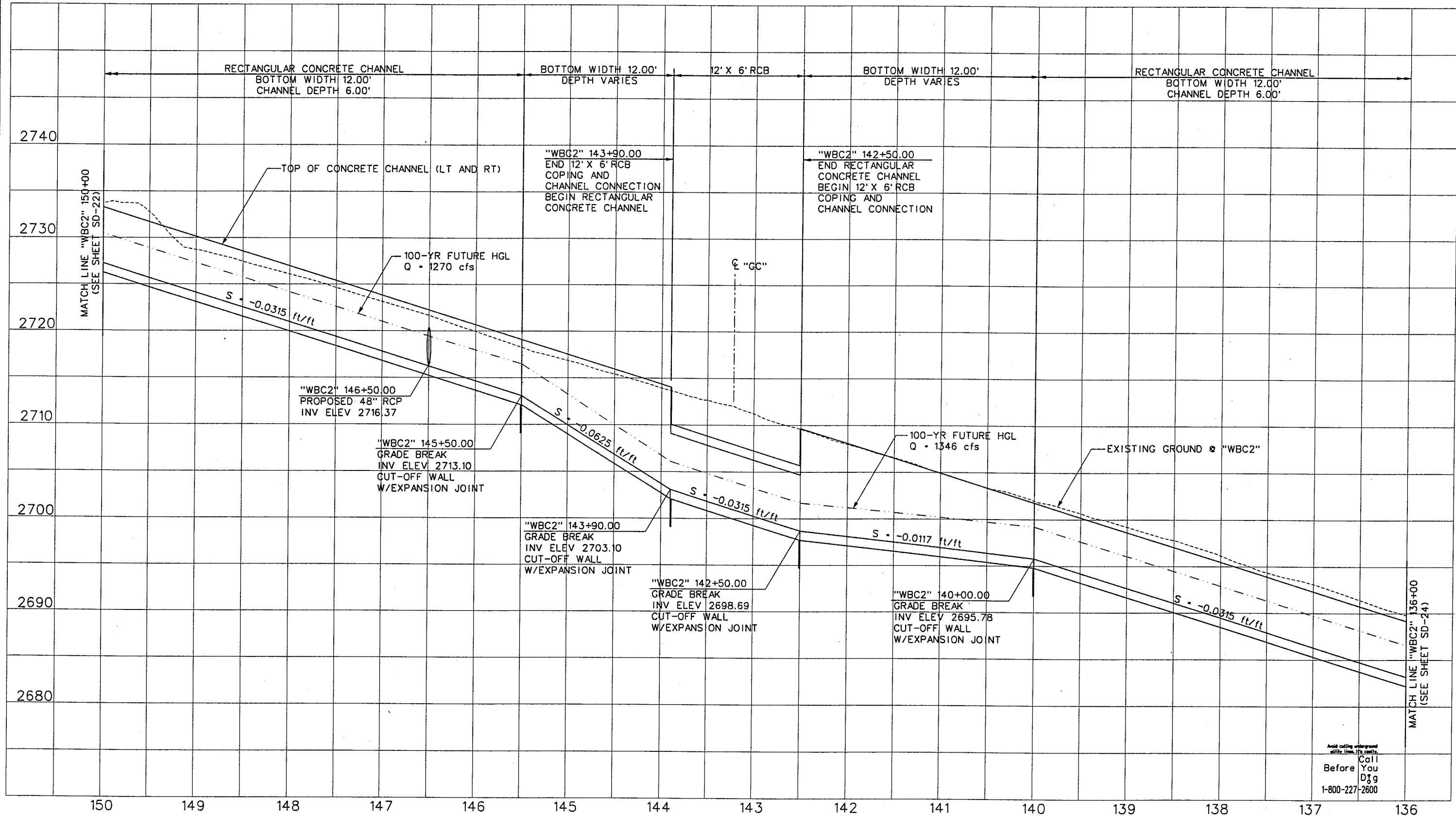
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SD-22
VERT: AS SHOWN	OF
FIELD BOOK	
	L-1695

REV. NO.	DATE	DESCRIPTION	APPROVED

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

REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\DRAINAGE\851-INT-wbc2-pro06.dgn ~ 4/11/2002 ~ 11:20:43 GFV



Call
Before
You
Dig
1-800-227-2600



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 150+00.00 TO "WBC2" 136+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

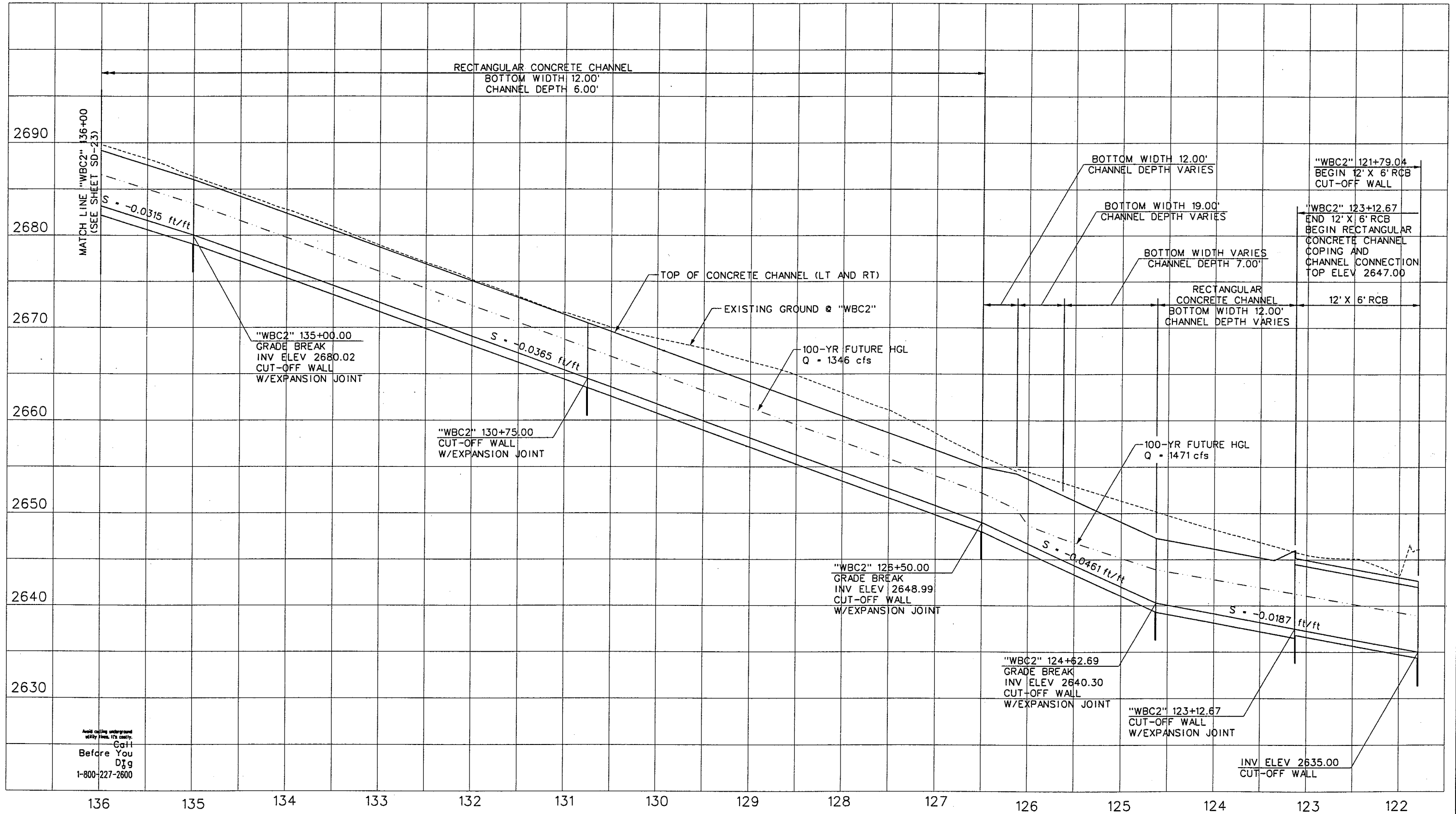
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: RRB	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-23
APPROVED BY: TOL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

REFERENCE FILE: 851-wbc2-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-stamp.mst

FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-INT-wbc2-pro07.dgn - 4/10/2002 - 16:09:40 WFD



Before You Dig
1-800-227-2600



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILE
"WBC2" 136+00.00 TO "WBC2" 121+80.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

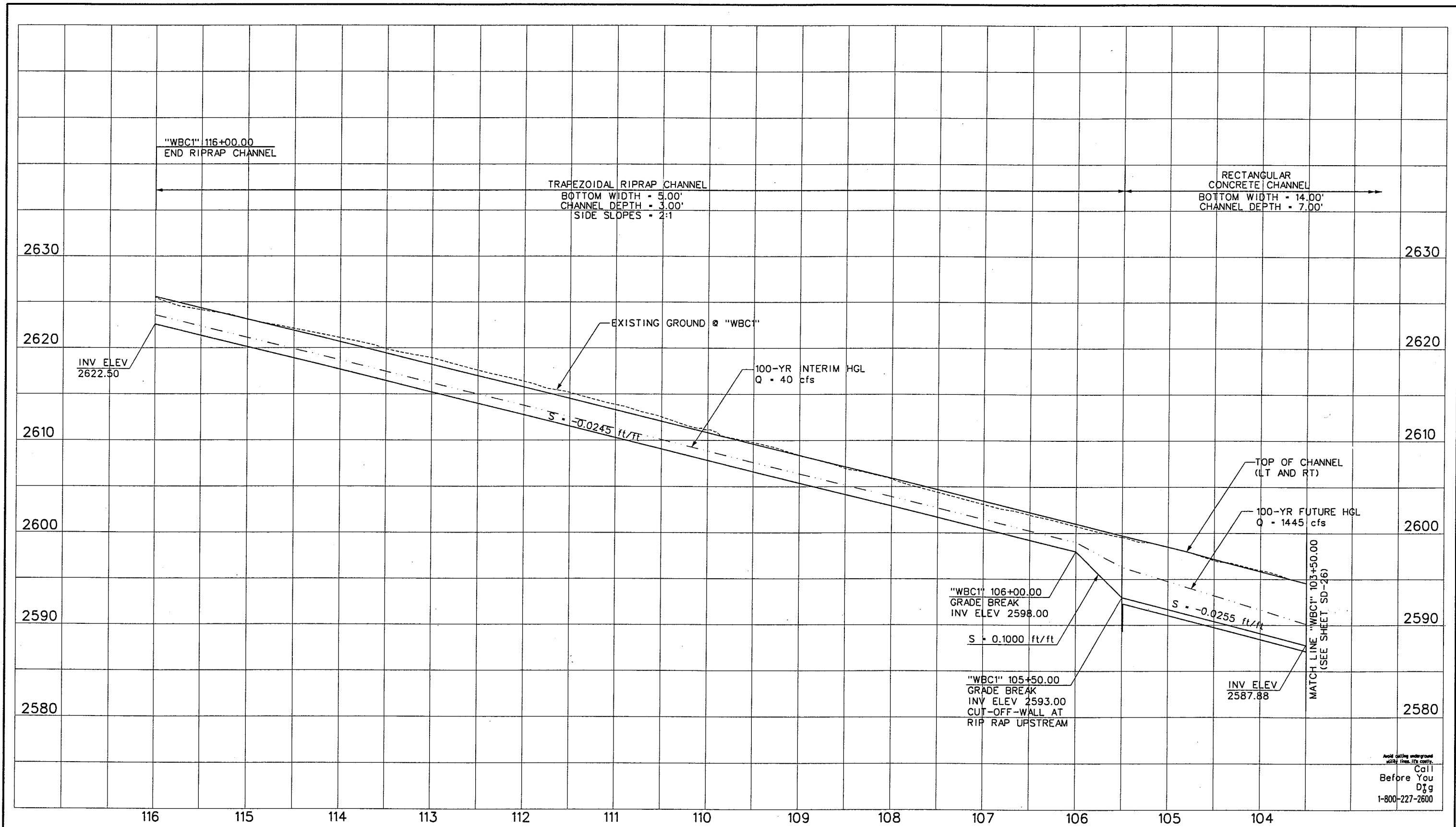
90%
PRELIMINARY
4-12-02

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

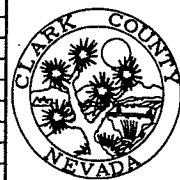
SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
SD-24
OF
L-1695

REFERENCE FILE: 851-WBC1-PROF.ILE.MST ~ 851-border.mst ~ 851-stamp.mst ~ 851-pro-grid.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\ORAINAGE\Profiles\851-INT-wbc1-pro02.dgn - 4/11/2002 - 16:11:54 WFD



Avoid cutting underground utility lines. If's costly.
Call Before You Dig
1-800-227-2600



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
CHANNEL PROFILE
"WBC1" 116+00 TO "WBC1" 103+50
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

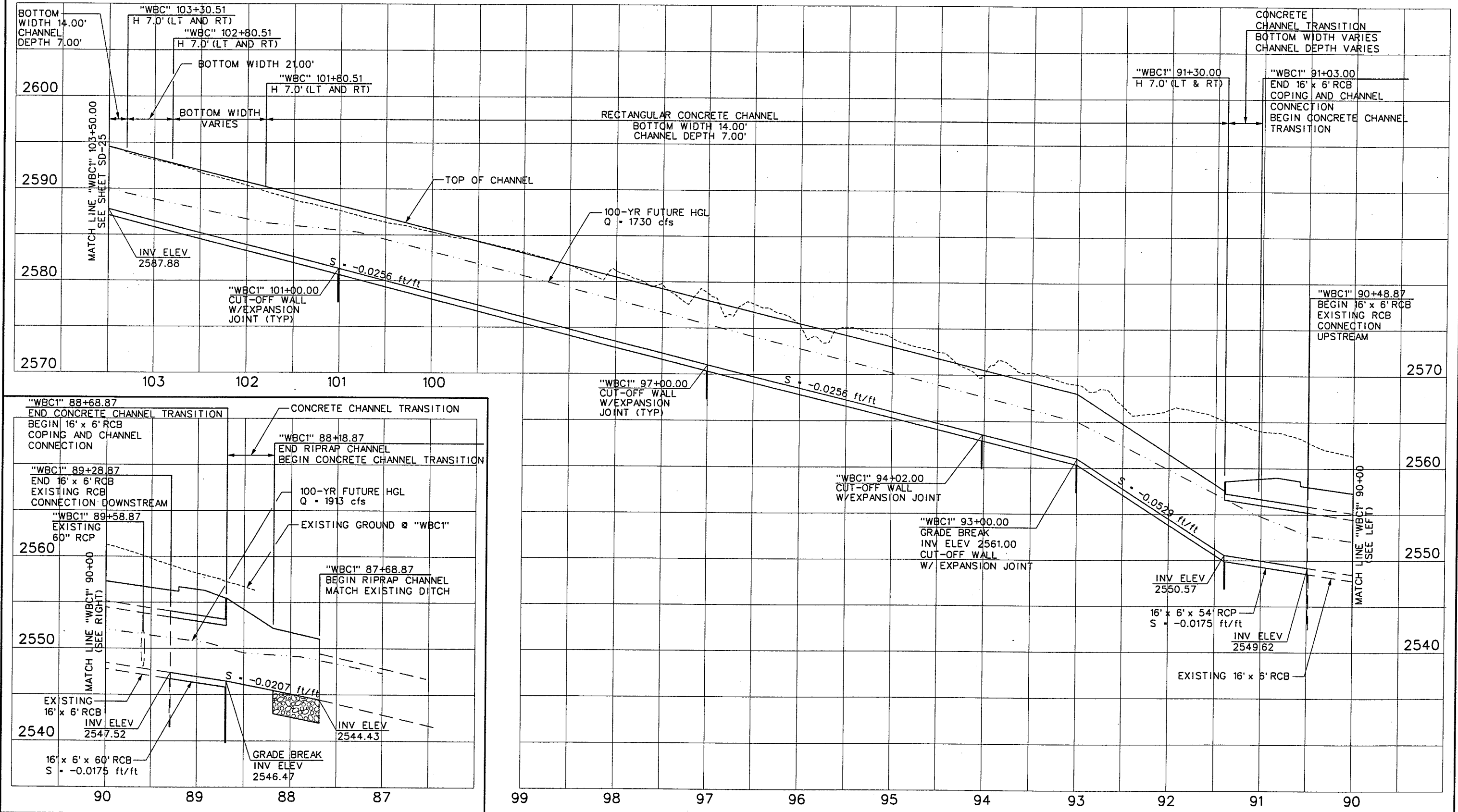
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WHW	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-25
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

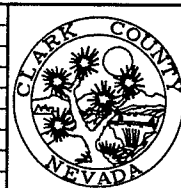
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

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

REFERENCE FILE: 851-WBC1-PROFILE.MST ~ 851-border.mst ~ 851-stamp.mst ~ 851-pro-grd.mst ~ 851-WBC1-PROFILE.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-WBC1-INT-WBC1-pro01.dgn ~ 4/12/2002 ~ 16:21:25 GFV



REV. NO.	DATE	DESCRIPTION	APPROVED

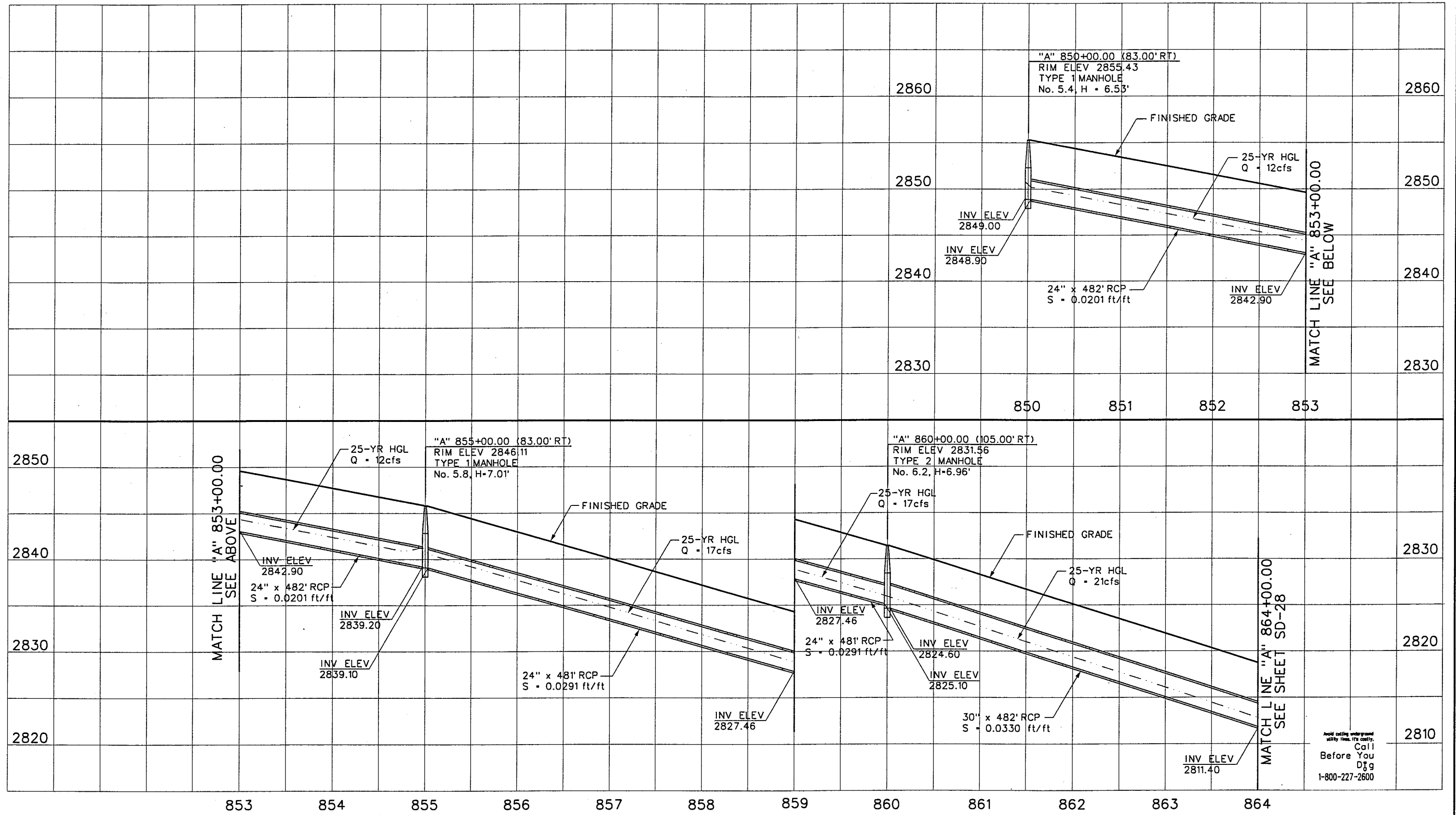


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
CHANNEL PROFILE
"WBC1" 103+50 TO "WBC1" 87+88.87
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

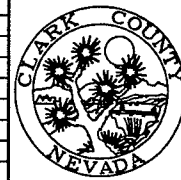
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WHW	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-26
APPROVED BY: TDL		VERT: AS SHOWN	OF
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	L-1695

REFERENCE FILE: 851-sd-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-sd-profile.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\RAINAGE\Profiles\851-INT-sd-pro01.dgn ~ 4/10/2002 ~ 17:21:45 GFV



REV. NO.	DATE	DESCRIPTION	APPROVED



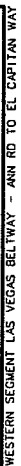
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STORM DRAIN PROFILE
"A" 841+00.00 TO "A" 864+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SD-27
VERT: AS SHOWN	OF
FIELD BOOK	
	L-1695

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



90%
PRELIMINARY
4-12-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>WFD</u>	SCALE HORIZ: AS SHOWN VERT: AS SHOWN FIELD BOOK 	DRAWING NO.
DESIGNED BY: <u>PLC</u>	CHECKED BY: <u>SJD</u>		SD-28 OF L-1695
APPROVED BY: <u>TDL</u>			
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA			

Technical drawing showing a sewer line profile with stationing and elevation data.

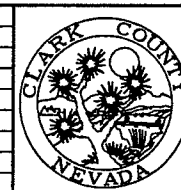
Left Section (Station 886 to 892):

- Match Line "A" 886+00.00** (SEE SHEET SD-28)
- 25-YR HGL** $Q = 66\text{cfs}$
- 36" x 394' RCP** $S = 0.0358\text{ ft/ft}$
- INV ELEV** 2738.22
- FINISHED GRADE**
- Manhole "A" 889+00.00 (81.00' RT)**
RIM ELEV 2735.69
TYPE 2 MANHOLE
No. 9.2, H = 8.09'
- INV ELEV** 2727.70
- 36" x 296' RCP** $S = 0.0318\text{ ft/ft}$
- INV ELEV** 2727.60
- 25 YR HGL** $Q = 75\text{cfs}$
- Manhole "A" 892+00.00 (122.00' RT)**
RIM ELEV 2725.50
TYPE 2 MANHOLE
No. 9.13, H = 7.40'
- INV ELEV** 2718.20
- INV ELEV** 2718.10
- INV ELEV** 2716.52

Right Section (Station 892 to 899):

- 25-YR HGL** $Q = 75\text{cfs}$
- 36" x 294' RCP** $S = 0.0316\text{ ft/ft}$
- INV ELEV** 2716.52
- 25-YR HGL** $Q = 81\text{cfs}$
- Manhole "A" 895+00.00 (108.00' RT)**
RIM ELEV 2717.02
TYPE 2 MANHOLE
No. 9.3, H = 8.32'
- INV ELEV** 2708.80
- INV ELEV** 2708.70
- 36" x 499' RCP** $S = 0.0321\text{ ft/ft}$
- FINISHED GRADE**
- INV ELEV** 2695.91
- Match Line "A" 899+00.00** (SEE BELOW)

Sanitary Sewer Profile (SD-30) showing pipe segments, manholes, and elevations. The profile includes a 36-inch RCP pipe with a slope of 0.0321 ft/ft, a 36-inch RCP pipe with a slope of 0.0351 ft/ft, and a 42-inch RCP pipe with a slope of 0.0343 ft/ft. It also shows a proposed 36-inch water line with a 48-inch steel casing. The profile is bounded by match lines at station 899+00.00 and 910+50.00. A note at the bottom right reads: "Avoid cutting underground utilities. Call Before You Dig 1-800-227-2600".

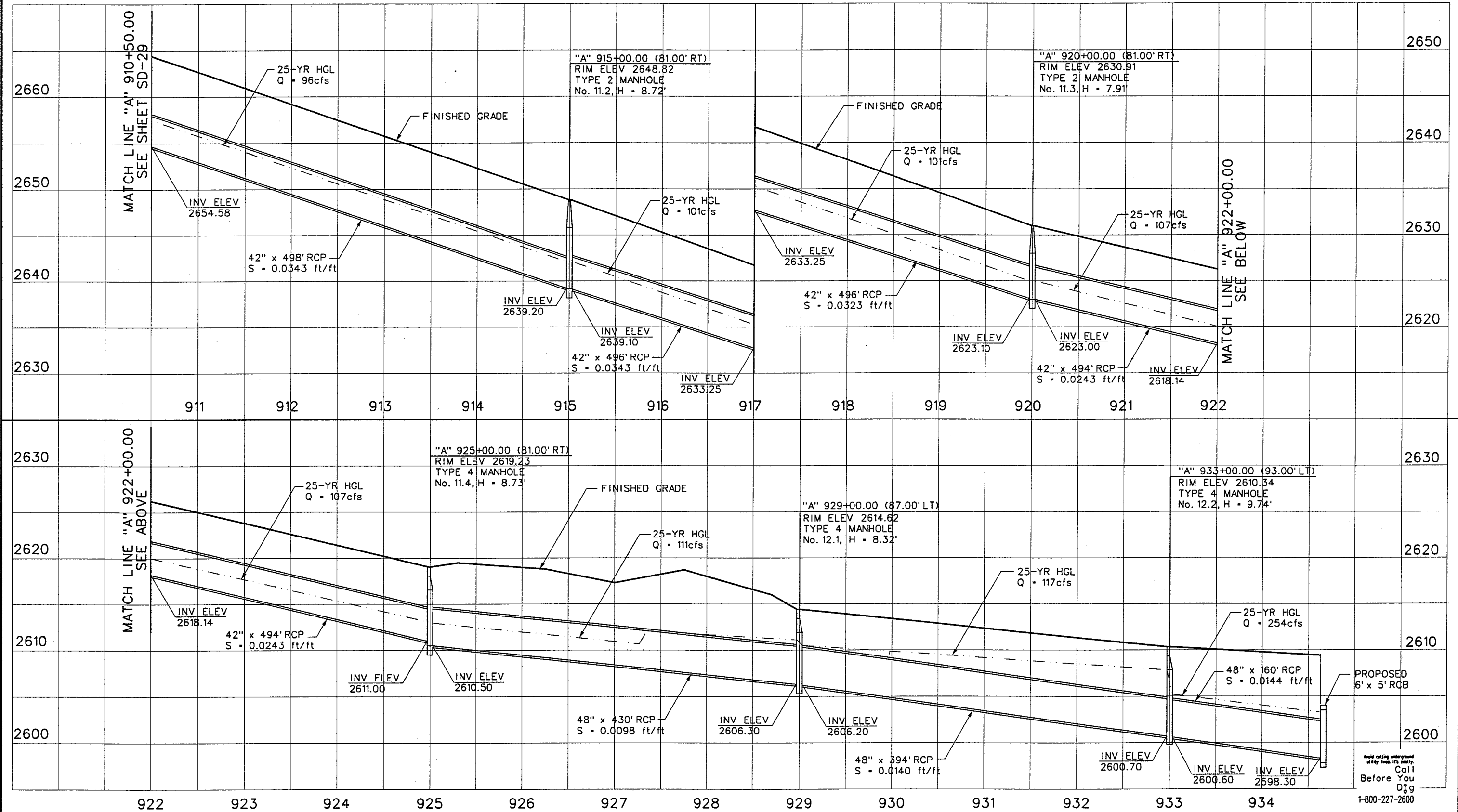
[illegible]

WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STORM DRAIN PROFILE
"A" 886+00.00 TO "A" 910+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>WFD</u>	SCALE HORIZ: AS SHOWN VERT: AS SHOWN FIELD BOOK	DRAWING NO.
DESIGNED BY: <u>PLC</u>	CHECKED BY: <u>SJD</u>		SD-29
APPROVED BY: <u>TDL</u>			OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA			L-1695

REFERENCE FILE: 851-sd-profile.mst ~ 851-border.mst ~ 851-pro-grid.mst ~ 851-sd-profile.mst ~ 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\RAINAGE\851-INT-sd-pro04.dgn ~ 4/10/2002 ~ 11:22:53 GFV



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
STORM DRAIN PROFILE
"A" 910+50.00 TO "A" 934+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
SD-30
OF
L-1695

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

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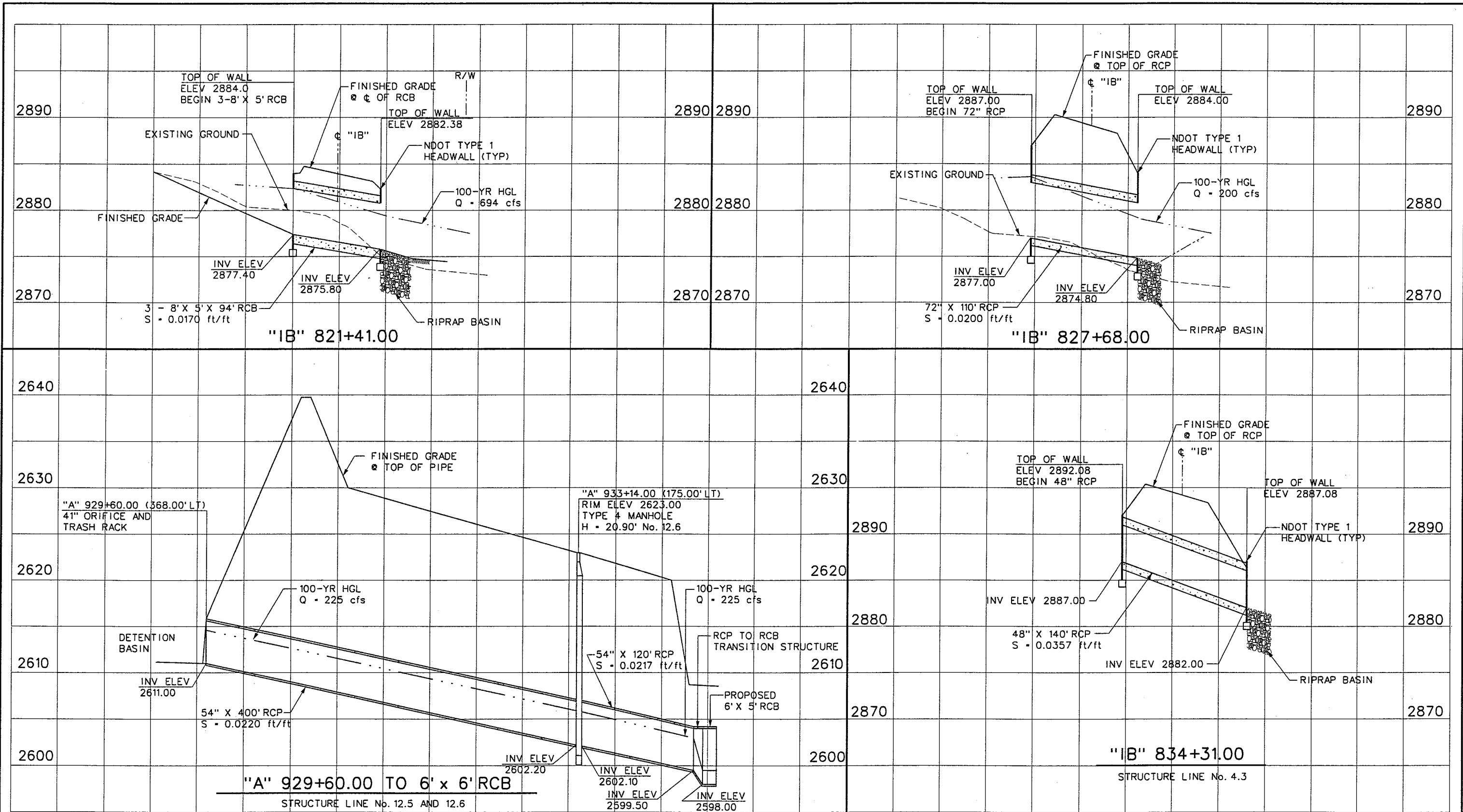
The seal of Clark County, Nevada, is a circular emblem. It features a central design of a cactus with several spiky branches and a small mountain range in the background. The words "CLARK COUNTY" are arched across the top, and "NEVADA" is arched across the bottom.

90%
PRELIMINARY
4-12-02



DRAWING NO.
SD-31
OF
1-1605

REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interm\RAINAGE\Profiles\851-INT-sd-pro06.dgn - 3/8/2002 - 11:00:21
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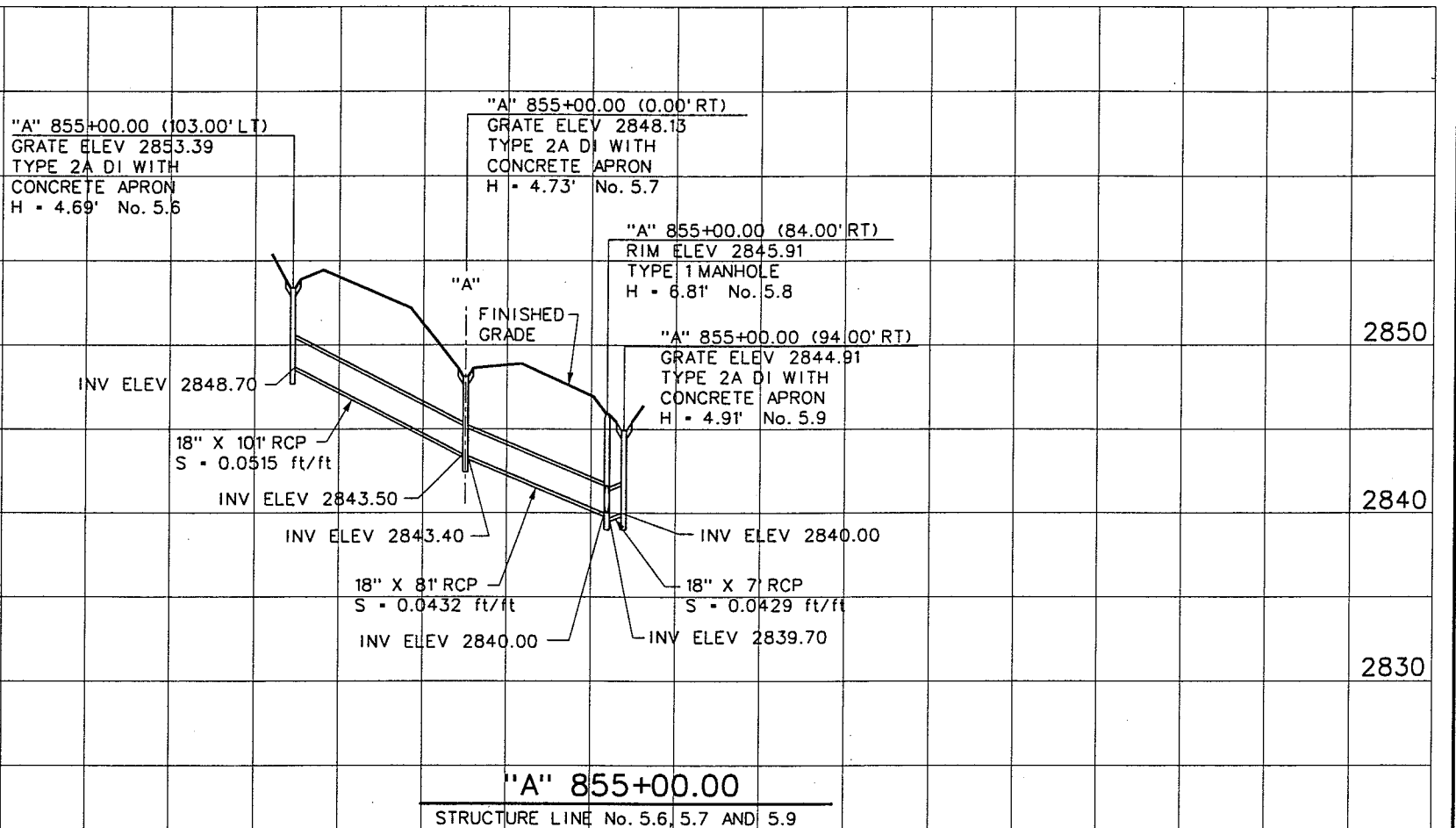
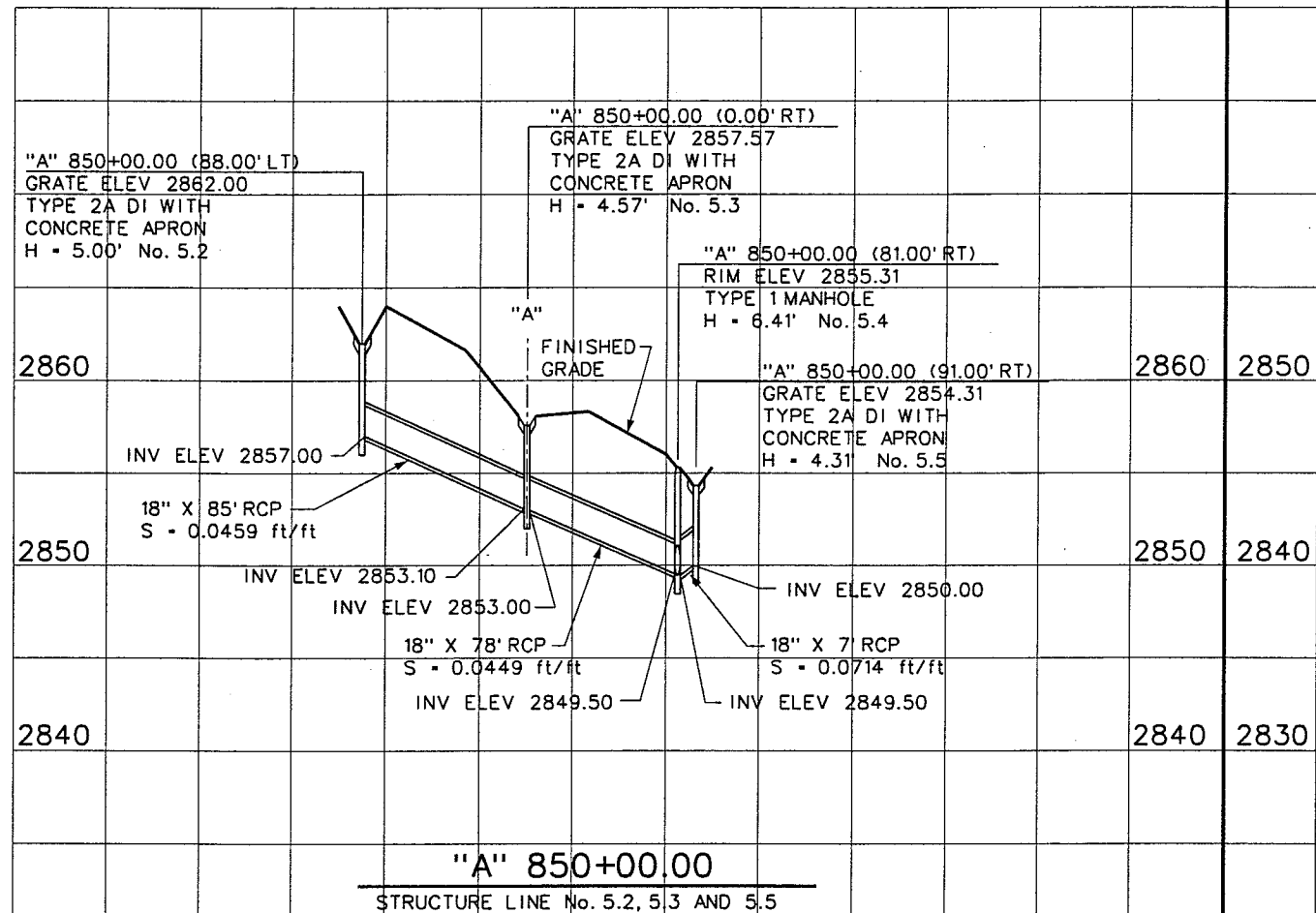


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WSH	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-32
APPROVED BY: TDL		VERT: AS SHOWN	OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695

REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\B51-INT-sd-pro07.dgn - 4/11/2002 - 10:48:42 RR



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
TYPE 2A DROP INLET	R-4.2.1
TYPE 1 MANHOLE	R-4.7.1
CONCRETE APRON	SD-42

NOTES:

- CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- ALL BEDDING SHALL BE CLASS B BEDDING PER NDOT STD R-1.1.6.
- ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

SAFETY ALERT
Call Before You Dig
1-702-593-6111

Call Before You Dig
1-800-227-2600



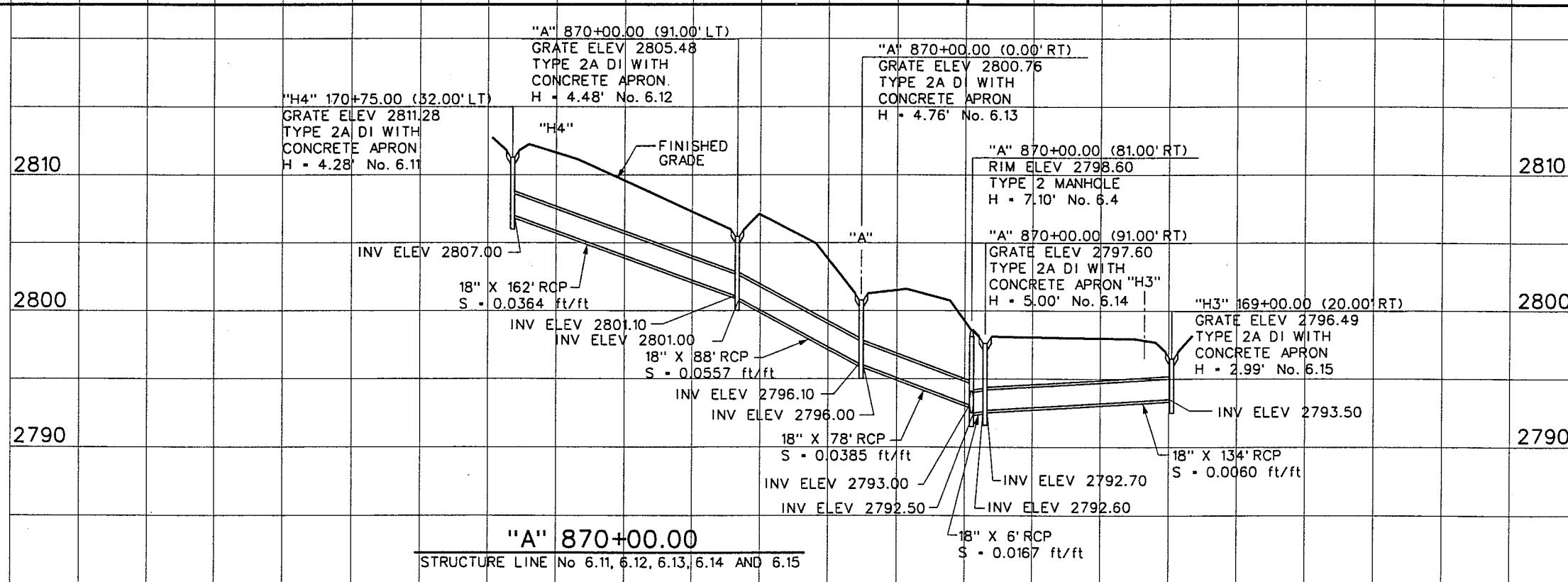
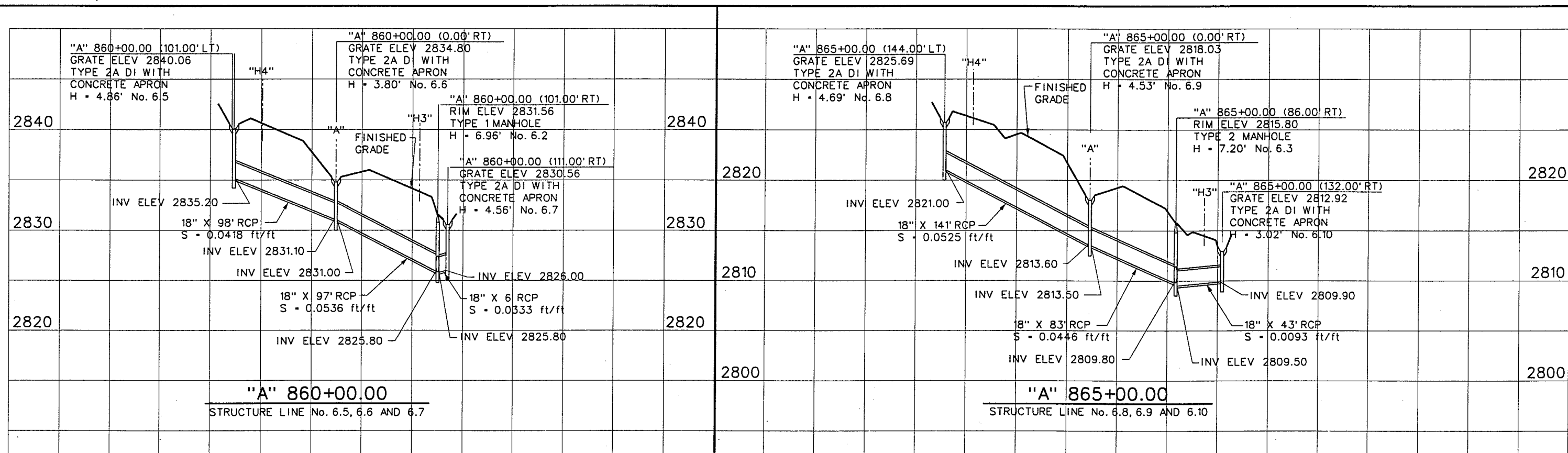
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK
DRAWING NO.
SD-33
OF
L-1695

REFERENCE FILE
FILE NAME: V:\851 Ann Rd to El Capitan\Interim\DRAINAGE\Profiles\851-INT-sd-pro08.dgn - 4/11/2002 - 11:14:24 RR



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
TYPE 2A DROP INLET	R-4.2.1
TYPE 1 MANHOLE	R-4.7.1
CONCRETE APRON	SD-42

- NOTES:
1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 2. ALL BEDDING SHALL BE CLASS B BEDDING PER NDOT STD R-1.1.6
 3. ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

SAFETY ALERT
Call Before You Dig
1-702-593-6111

Call Before You Dig
1-800-227-2600



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

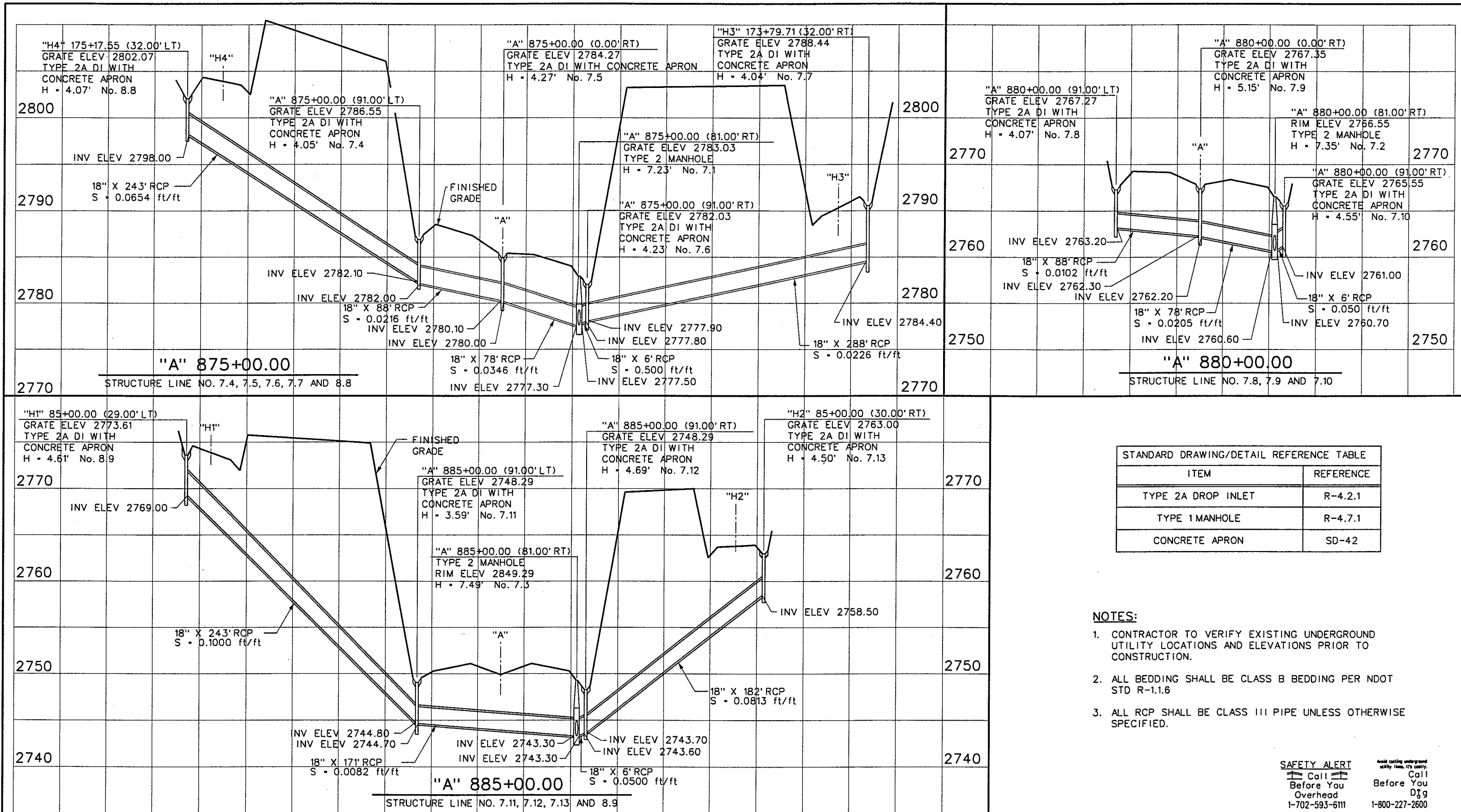
PROJECT NO: 851 DRAWN BY: JR
DESIGNED BY: PLC CHECKED BY: SJD
APPROVED BY: TDL

THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
SD-34
OF
L-1695

REFERENCE FILE:
FILE NAME: V:\851 Ann Rd to El Capitan\Interim\DRAINAGE\Profiles\851-INT-sd-pro09.dgn - 4/11/2002 - 15:40:40 RR



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
TYPE 2A DROP INLET	R-4.2.1
TYPE 1 MANHOLE	R-4.7.1
CONCRETE APRON	SD-42

- NOTES:**
1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 2. ALL BEDDING SHALL BE CLASS B BEDDING PER NDOT STD R-1.1.6
 3. ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

SAFETY ALERT
Call Before You Dig
1-702-593-6111

Avoid cutting underground utility lines. It's costly.
Call Before You Dig
1-800-227-2600

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

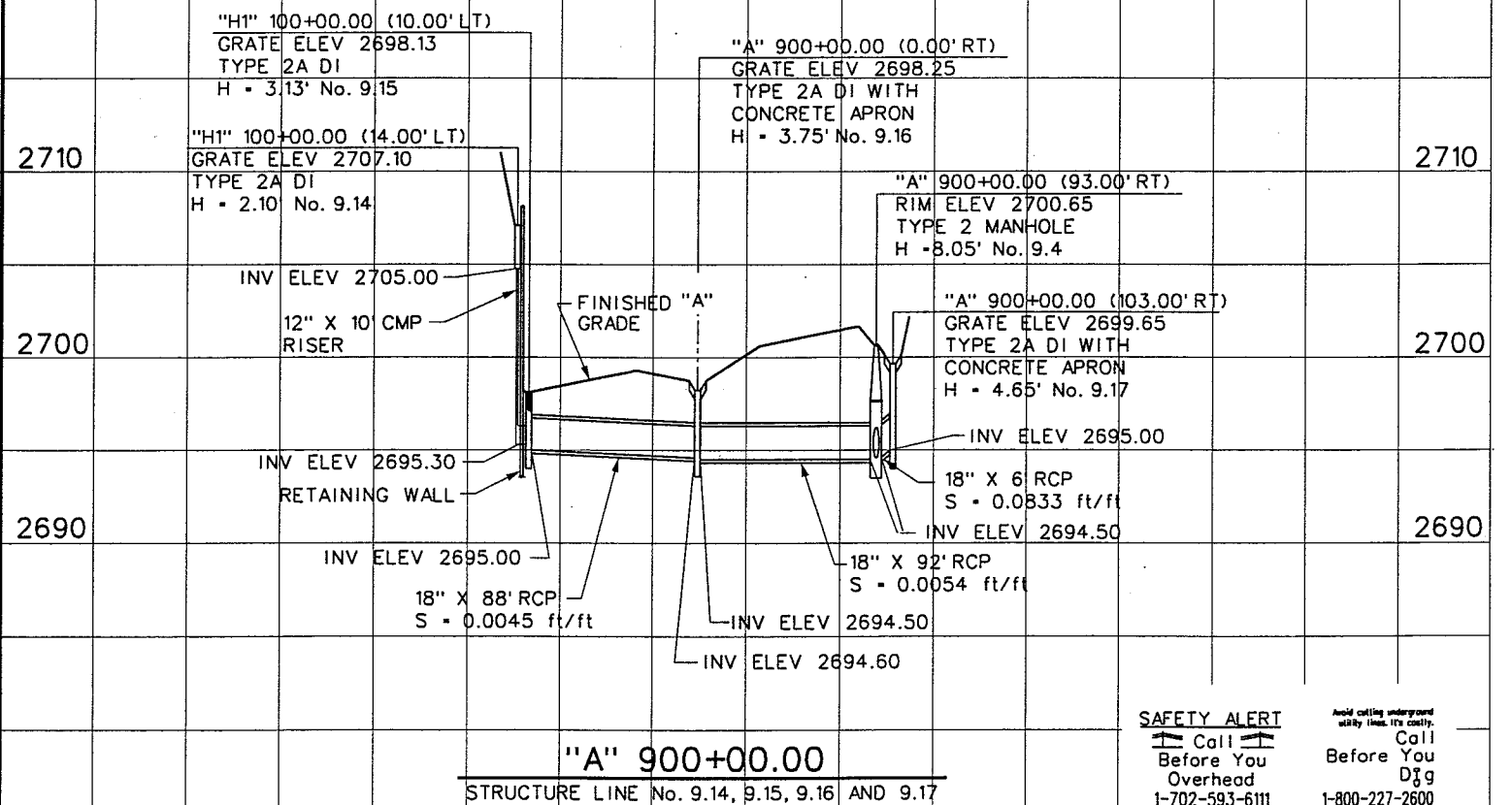
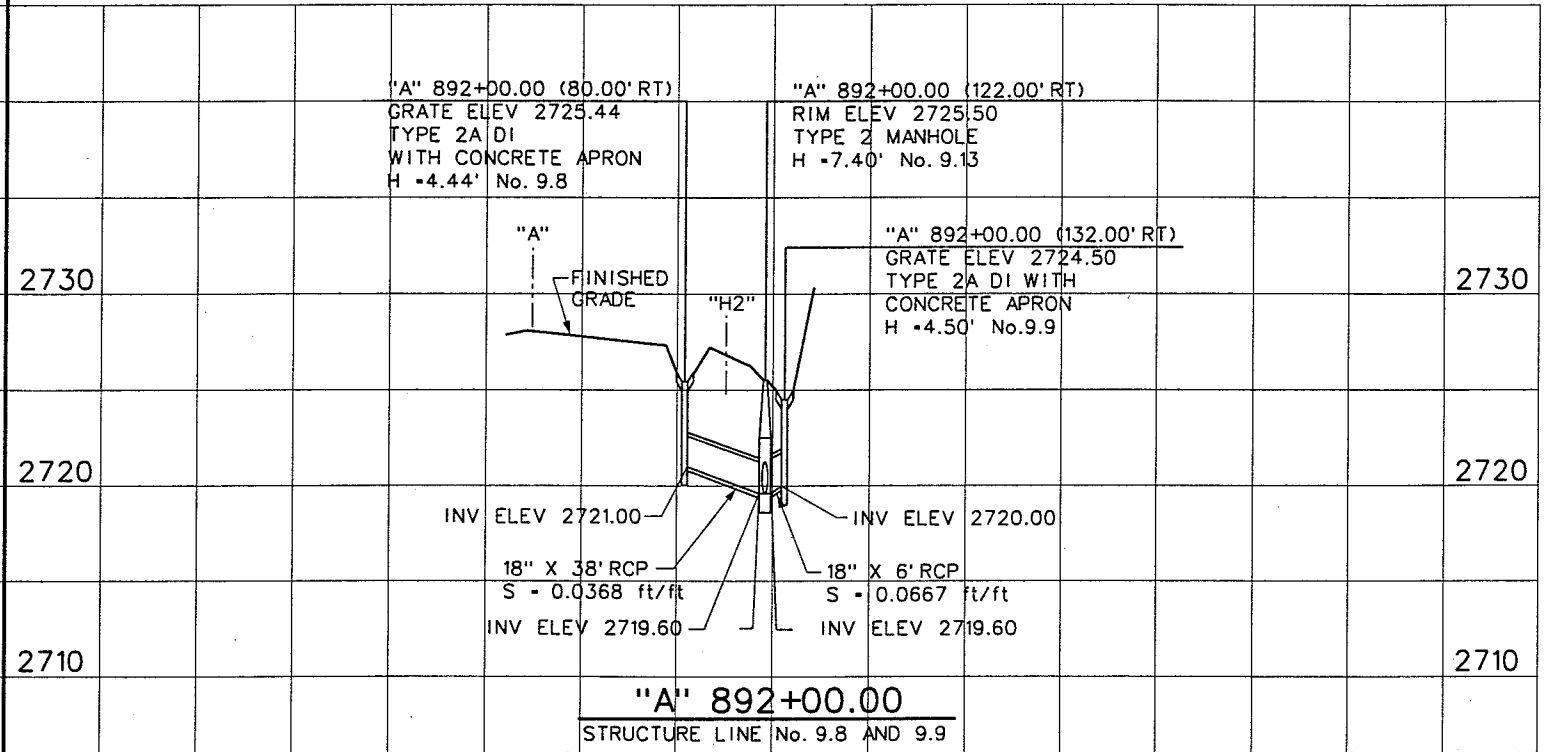
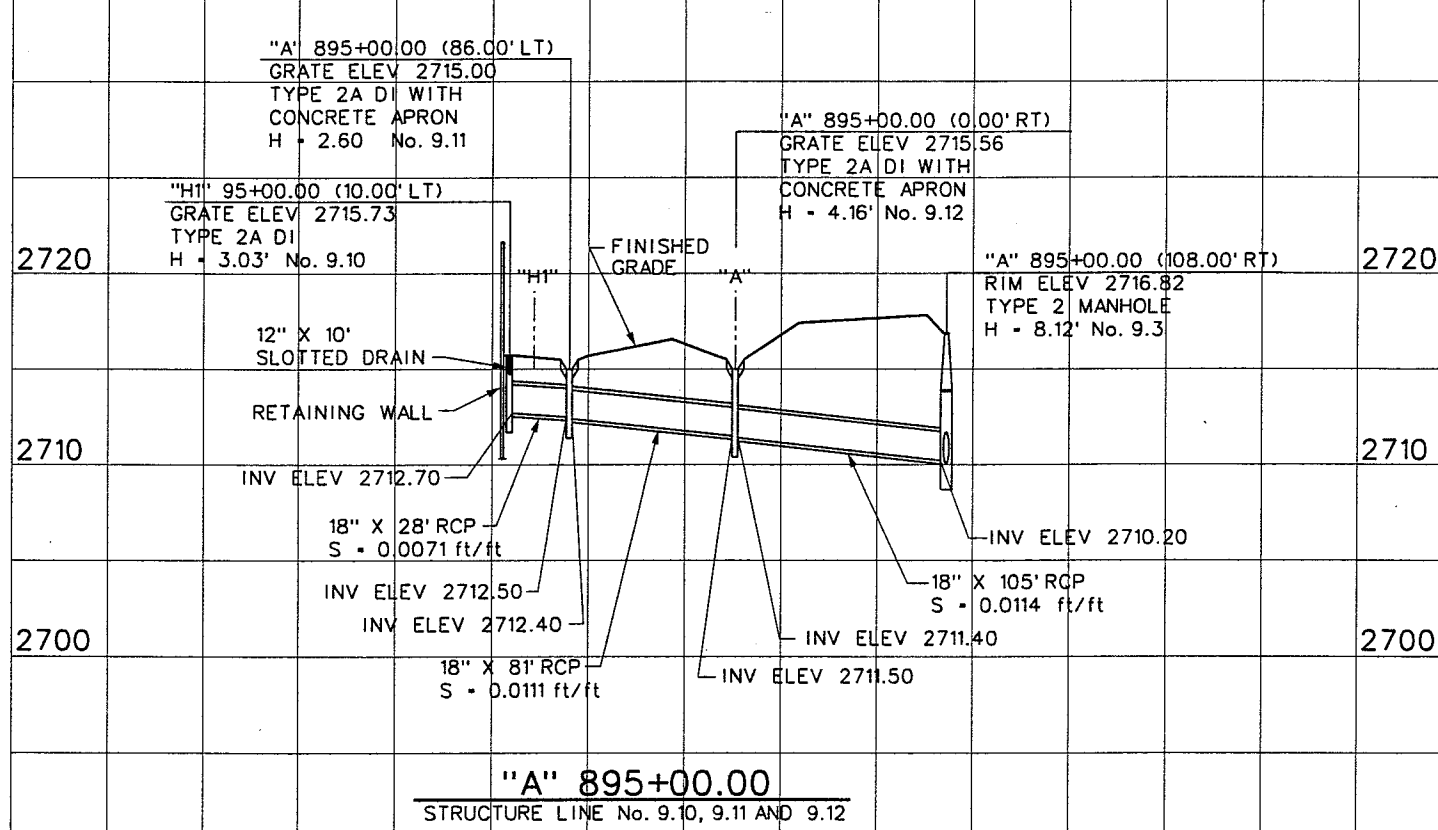
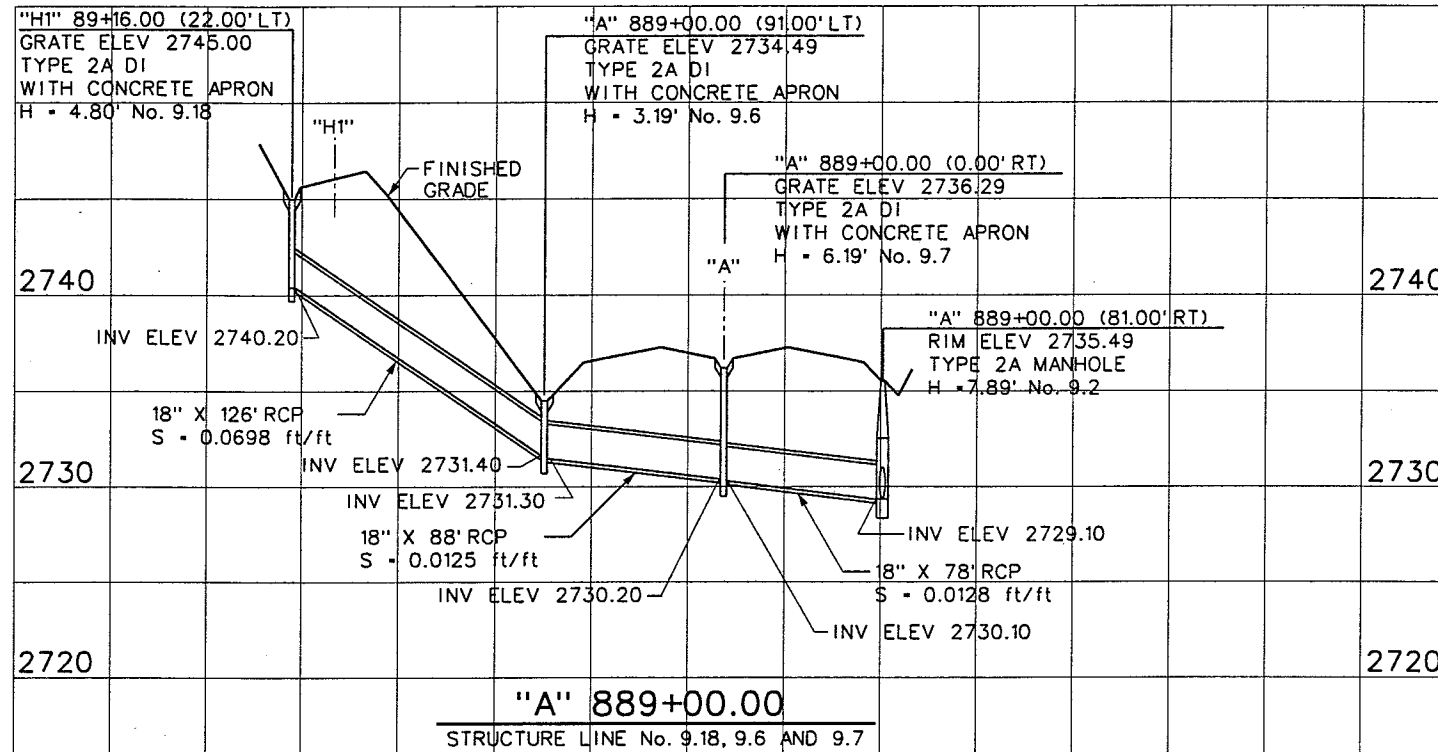
90%
PRELIMINARY
4-12-02

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

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: AS SHOWN	SD-35
VERT: AS SHOWN	OF
FIELD BOOK	L-1695

REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-INT-sd-pro06.dgn - 3/8/2002 - 11:00:21
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-INT-sd-pro10.dgn - 4/11/2002 - 13:28:48 RR



SAFETY ALERT
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Avoid cutting underground utility lines. It's costly.
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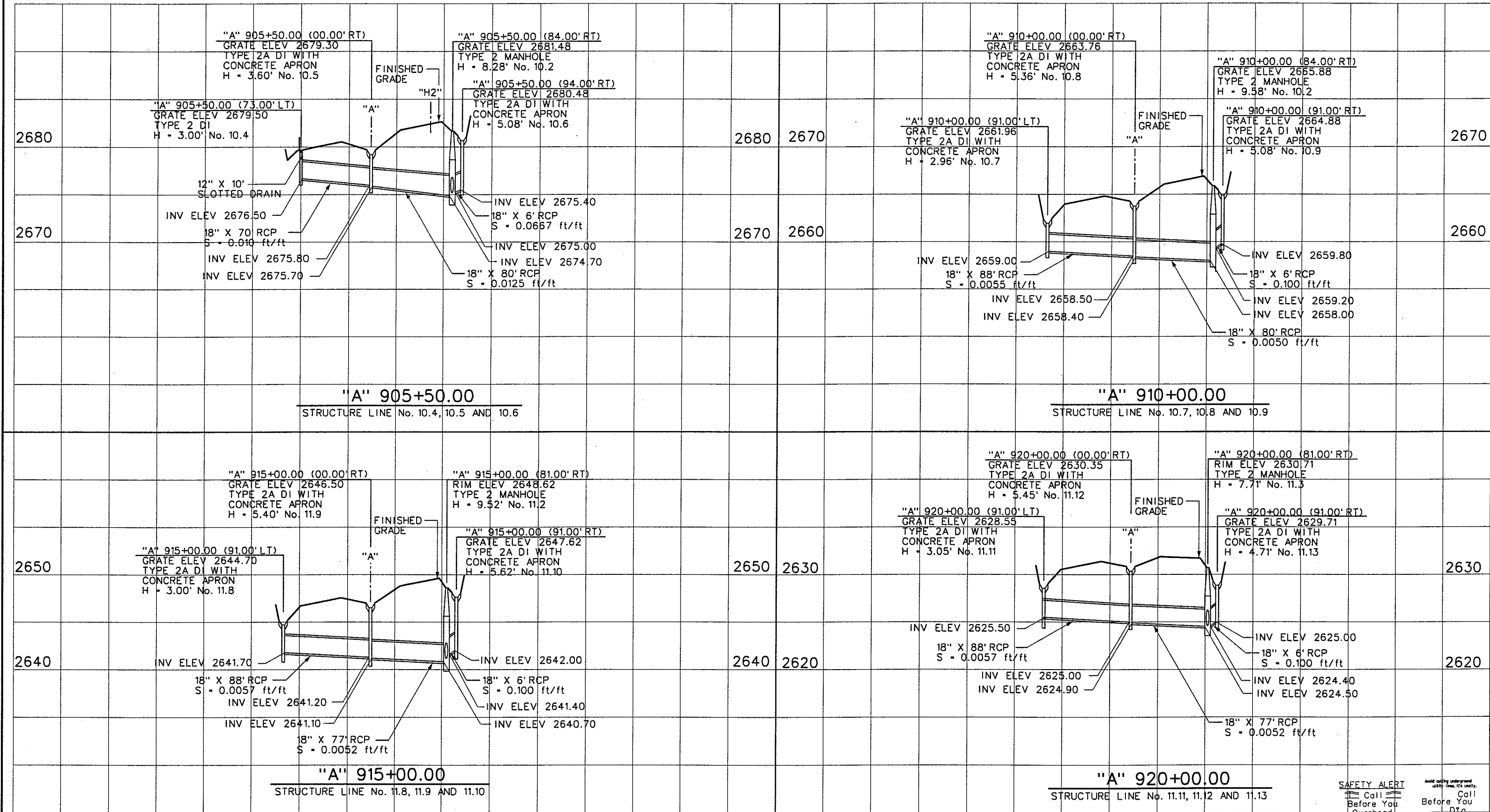
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90% PRELIMINARY
4-12-02

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

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK
DRAWING NO.
SD-36
OF
L-1695

REFERENCE FILE: 851-sd-profile.mst ~ 851-pro-grid.mst ~ 851-sd-profile.mst ~ 851-stomp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\851-INT-sd-profil.dgn - 4/11/2002 - 15:41:49 RR



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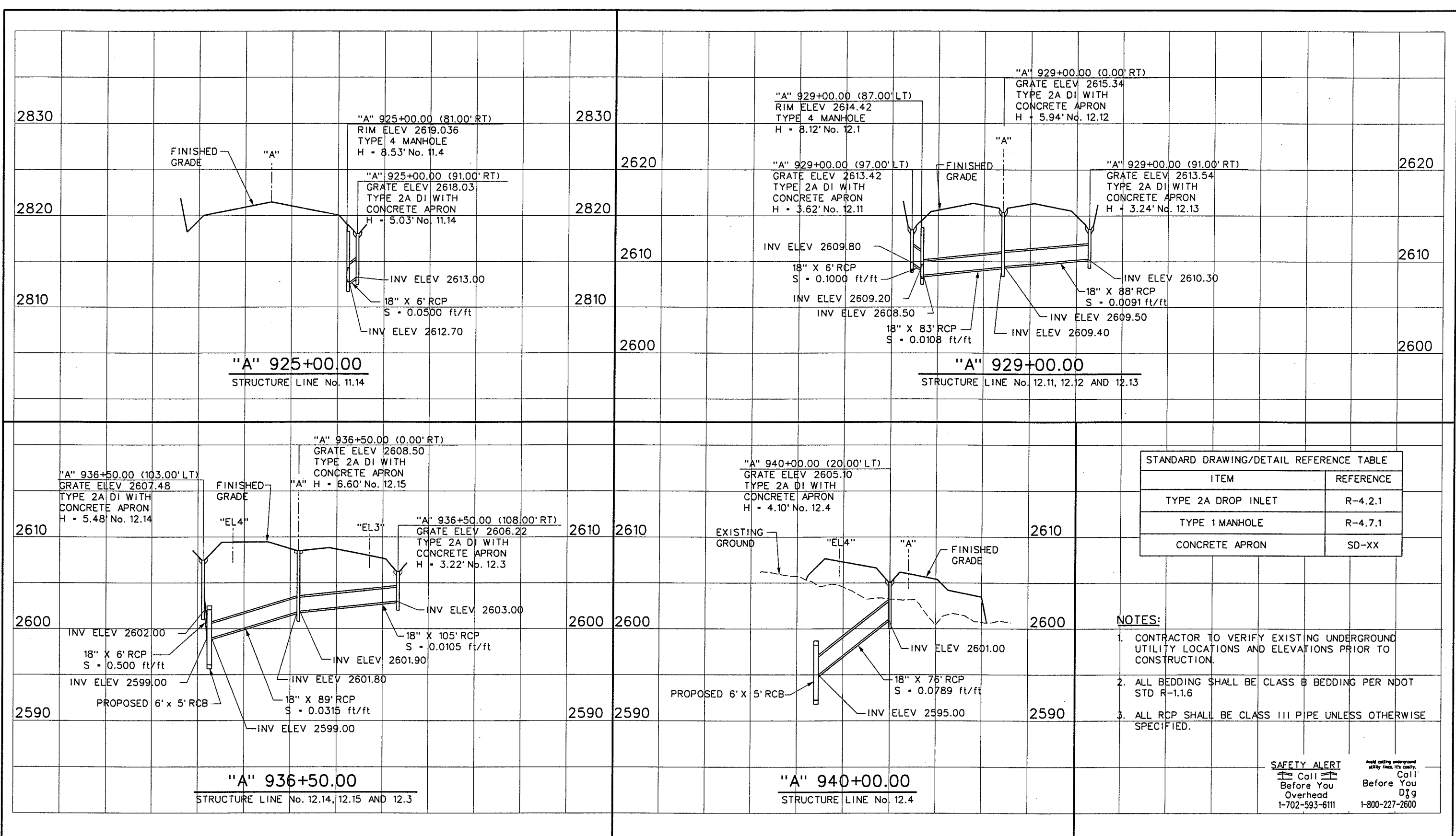


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90% PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: RR	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-37
APPROVED BY: TDL		VERT: AS SHOWN	OF
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695

REFERENCE FILES:
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-INT-sd-pro12.dgn - 4/10/2002 - 13:35:32 WFD



STANDARD DRAWING/DETAIL REFERENCE TABLE	
ITEM	REFERENCE
TYPE 2A DROP INLET	R-4.2.1
TYPE 1 MANHOLE	R-4.7.1
CONCRETE APRON	SD-XX

- NOTES:
1. CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 2. ALL BEDDING SHALL BE CLASS B BEDDING PER NDOT STD R-1.1.6
 3. ALL RCP SHALL BE CLASS III PIPE UNLESS OTHERWISE SPECIFIED.

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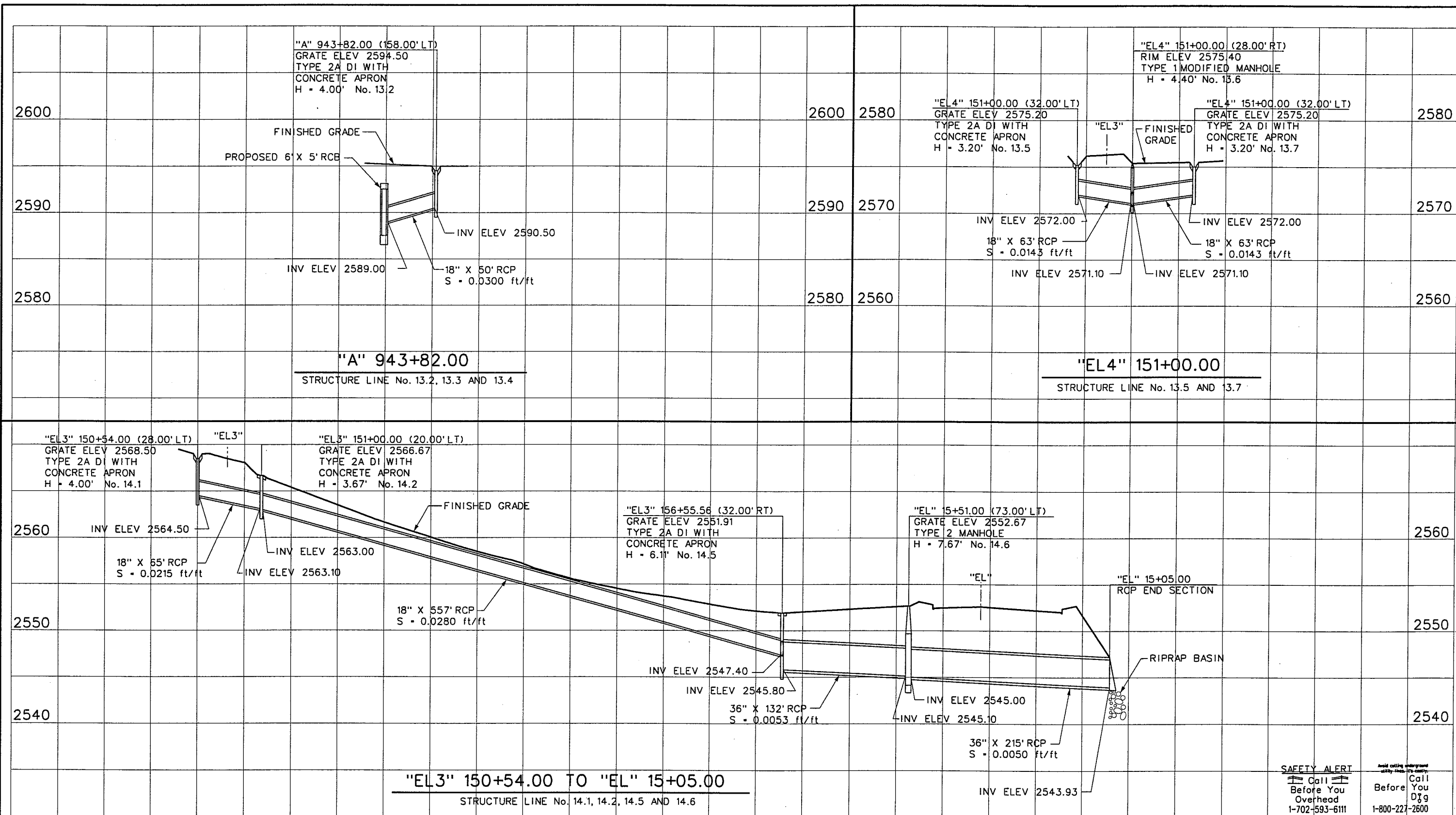
REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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4-12-02

PROJECT NO: 851	DRAWN BY: JR	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-38
APPROVED BY: TDL		VERT: AS SHOWN	OF
THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	
			L-1695



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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PROJECT NO: 851	DRAWN BY: JR	SCALE	DRAWING NO.
DESIGNED BY: PLC	CHECKED BY: SJD	HORIZ: AS SHOWN	SD-39
APPROVED BY: TDL		VERT: AS SHOWN	OF
		FIELD BOOK	
			L-1695

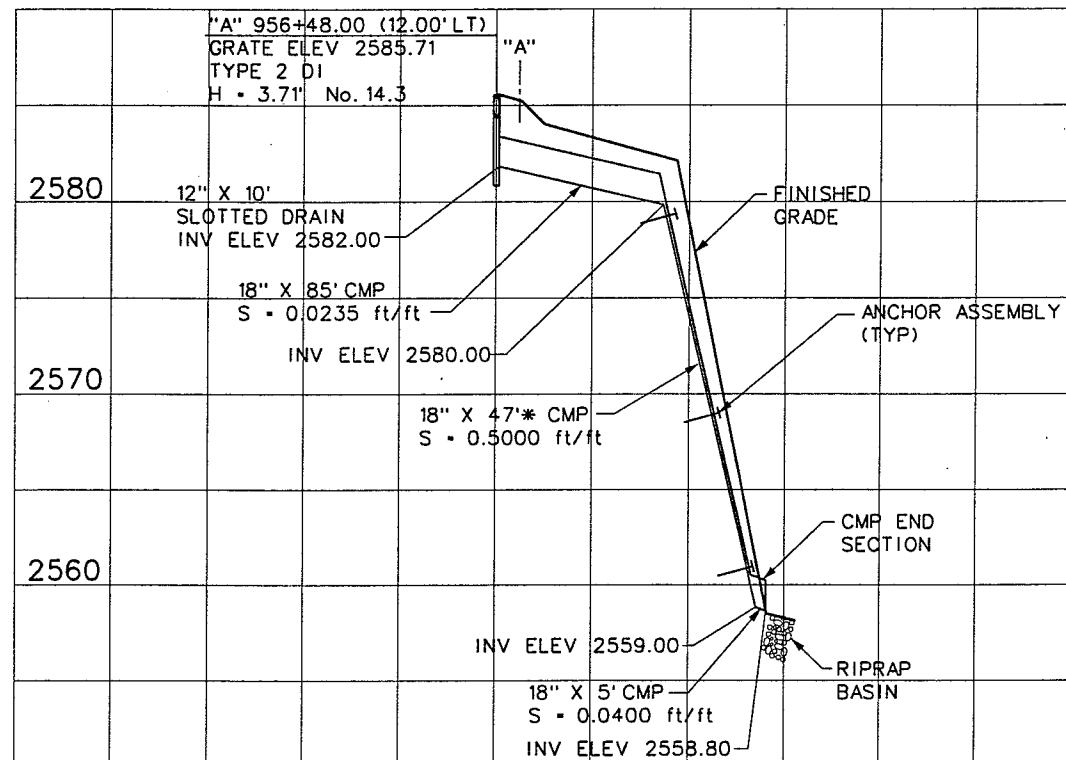


THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

SAFETY ALERT
 Call Before You Overhead
 1-702-593-6111

Call Before You Dig
 1-800-227-2600

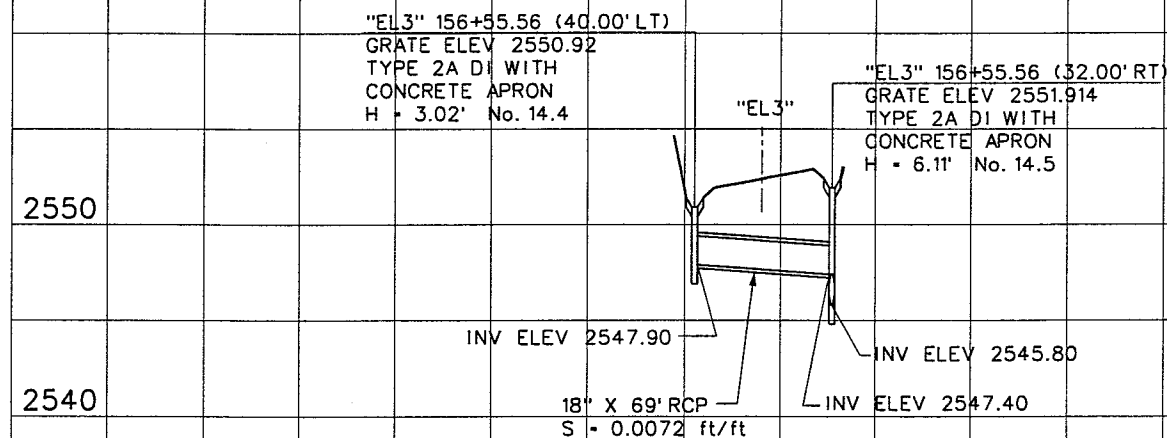
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FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\B51-INT-sd-pro14.dgn - 4/10/2002 - 14:03:19 RR



* - DENOTES SLOPE LENGTH OF PIPE

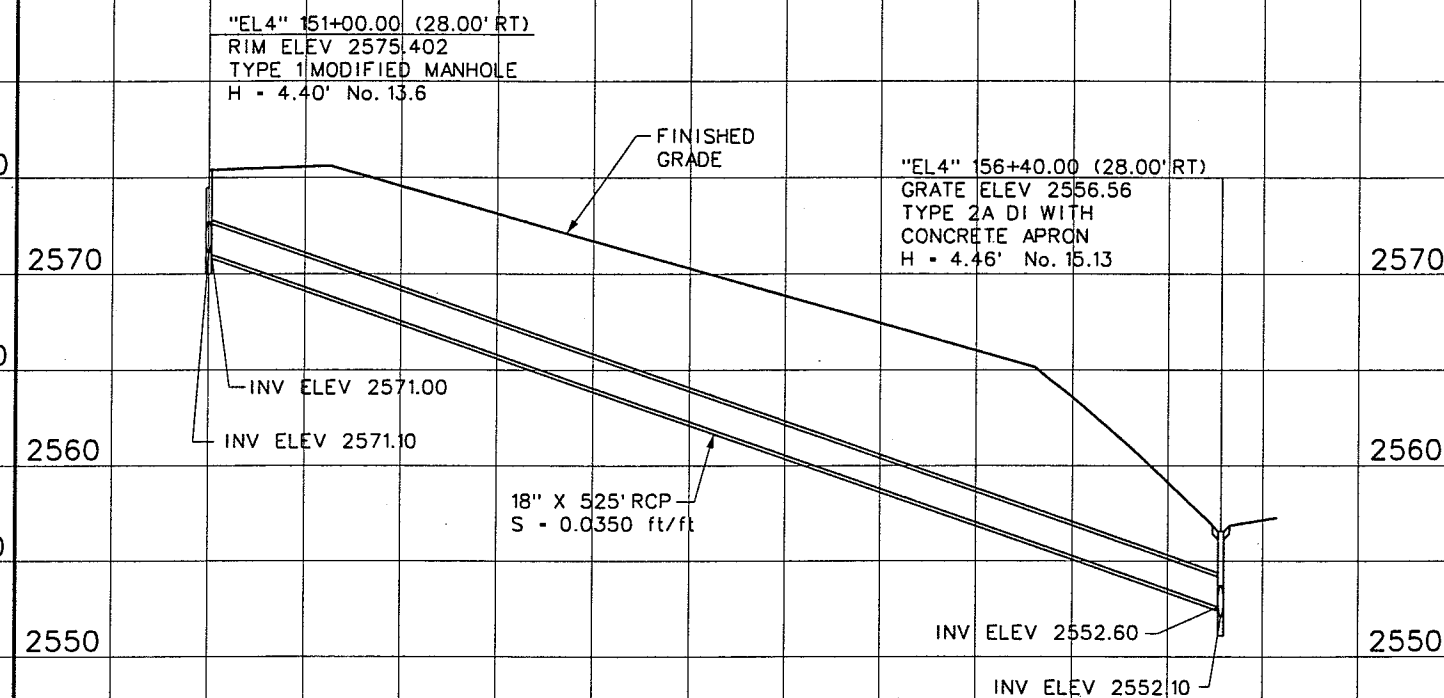
"A" 956+48.00

STRUCTURE LINE No. 14.3



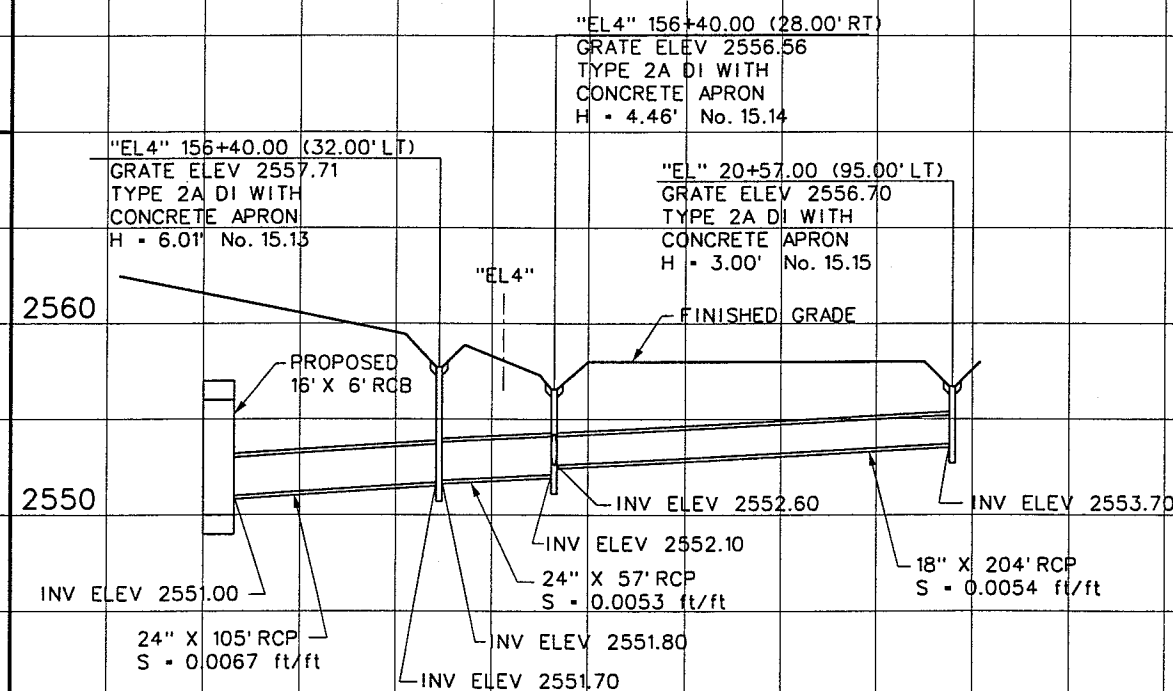
"EL3" 156+55.56

STRUCTURE LINE No. 14.4



"EL4" 151+00.00 TO "EL4" 156+40.00

STRUCTURE LINE NO. 13.6



"EL" 20+57.00 TO 16' x 6' RCB

STRUCTURE LINE No. 15.13, 15.14 AND 15.15

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WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE PROFILES
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

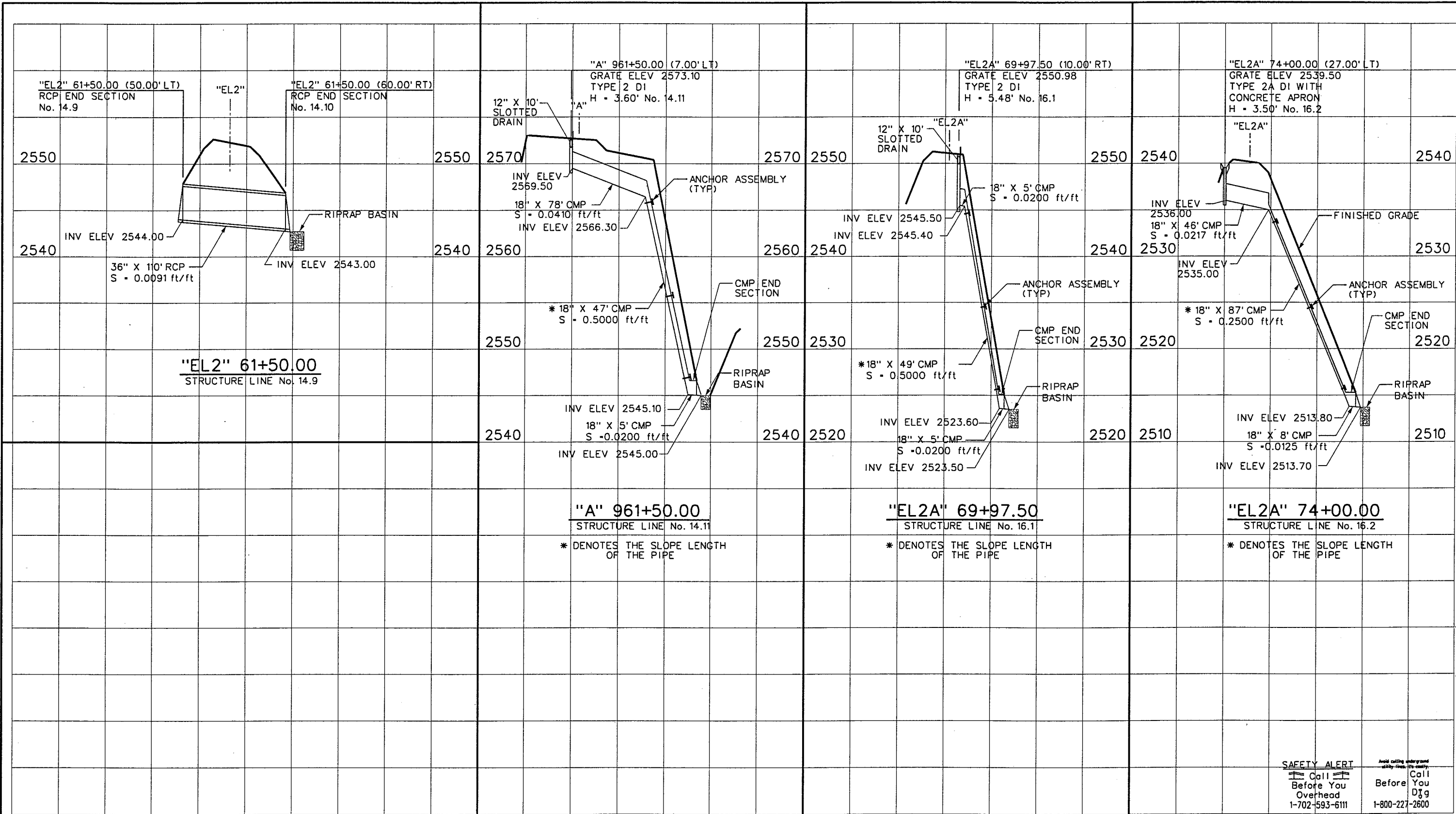
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PROJECT NO: 851
DESIGNED BY: PLC
APPROVED BY: TDL
DRAWN BY: JR
CHECKED BY: SJD
THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
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SD-40
OF
L-1695

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FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Profiles\851-INT-sd-pro15.dgn - 4/11/2002 - 15:48:31 RR



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WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
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PROJECT NO: 851
DESIGNED BY: PLC
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LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
SD-41
OF
L-1695

A MINIMUM BAR LAP DISTANCES

B MODIFIED TYPE 1A MANHOLE
SD-42 NTS



D WEEP HOLE DETAIL
SD-42 NTS



C CHANNEL STEPS
SD-42 NTS

STATION TO STATION	X
"WBC2" 213+75.00 TO "WBC2" 214+80.00	21.00'
"WBC2" 202+60.00 TO "WBC2" 208+00.00	21.00'

E SLOPE PAVING DETAIL
SD-42 NTS

[illegible]

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4-12-02

PROJECT NO: 851 DRAWN BY: JR
DESIGNED BY: SRF CHECKED BY: SJD
APPROVED BY: TDL

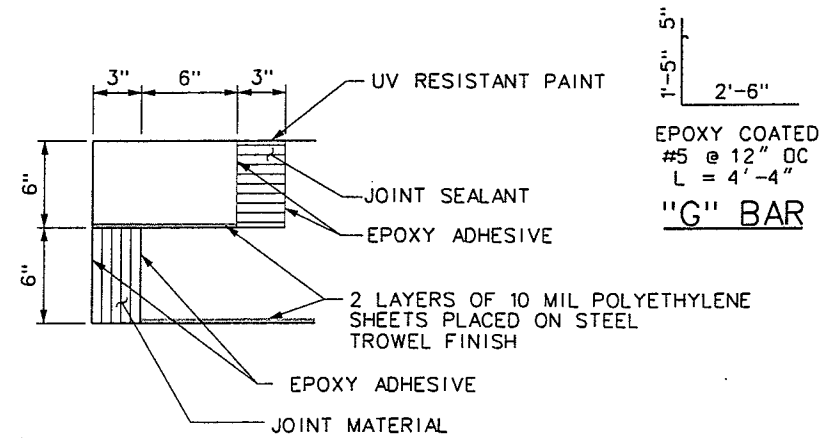
 **THE LOUIS BERGER
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LAS VEGAS, NEVADA

SCALE	DRAWING NO. SD-42 OF 1-1695
HORIZ: NONE	
VERT: NONE	
FIELD BOOK	

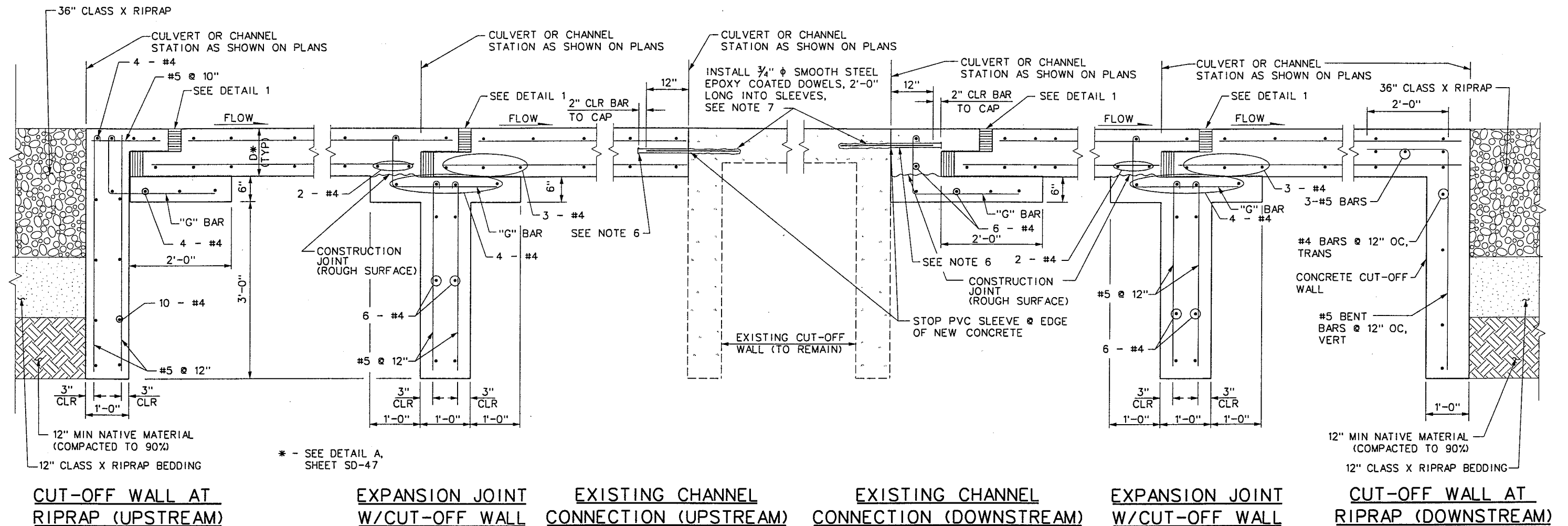
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FILE NAME: V:\851 Ann Rd to El Capitan\intern\DRAINAGE\Details\851-SDO-13.dgn - 4/11/2002 - 13:45:32 JR

NOTES:

1. 3-FOOT CUT-OFF WALL TO BE CONTINUOUS THROUGH TOP OF CHANNEL SIDEWALL FOR TRAPEZOIDAL SECTIONS ONLY.
2. SEE CHANNEL SECTIONS FOR DETAILS AND DIMENSIONS NOT SHOWN.
3. JOINT SHALL BE SAND BLASTED CLEAN AND DRY PRIOR TO JOINT SEALANT AND MATERIAL APPLICATION.
4. NO WATER SHALL DRAIN INTO JOINT BUILT OR UNDER CONSTRUCTION UNTIL FINAL PLACEMENT OF JOINT SEALANT AND EPOXY ADHESIVE.
5. EXPANSION JOINT DESIGN ASSUMES CONSTRUCTION WILL BE FROM DOWNSTREAM TO UPSTREAM. THE ENGINEER SHALL BE NOTIFIED 30 DAYS PRIOR TO CONSTRUCTION IF CONSTRUCTION IS TO OCCUR FROM UPSTREAM TO DOWNSTREAM
6. PROVIDE 1" ϕ PC SLEEVE, 14" LONG W/END CAP (PACKED WITH GREASE) @ 8" OC.
7. DRILL 1" ϕ HOLES IN EXISTING CONCRETE AND EPOXY GROUT $\frac{3}{4}$ " ϕ DOWEL AS SHOWN.



DETAIL 1



A TYPICAL EXPANSION JOINTS AND CUT-OFF WALLS
SD-43 NTS



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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4-12-02

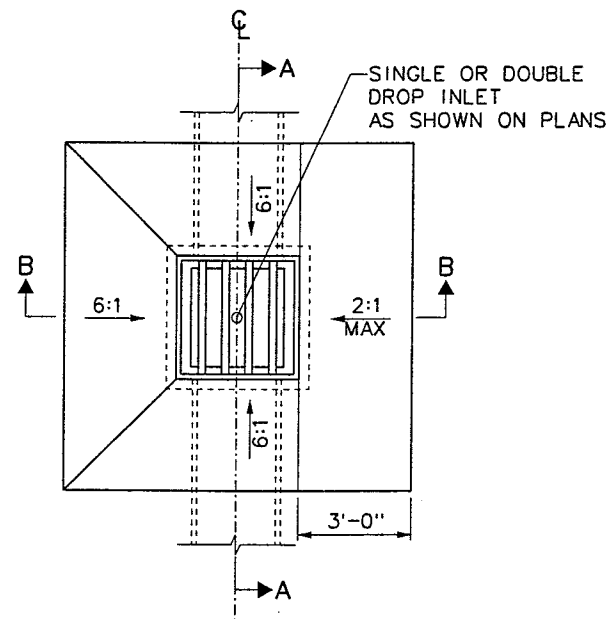
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APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



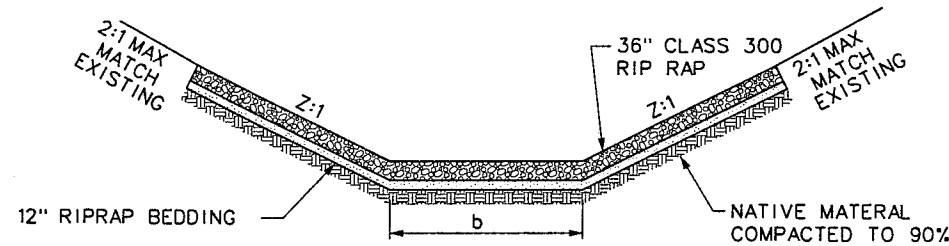
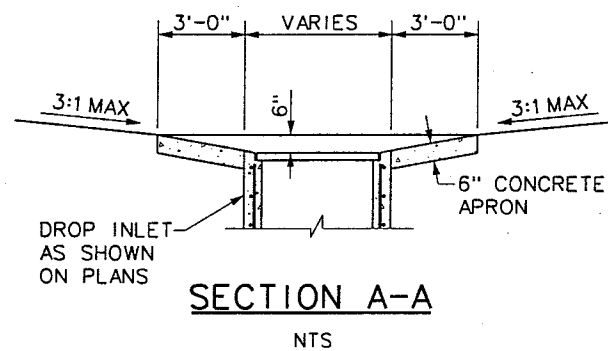
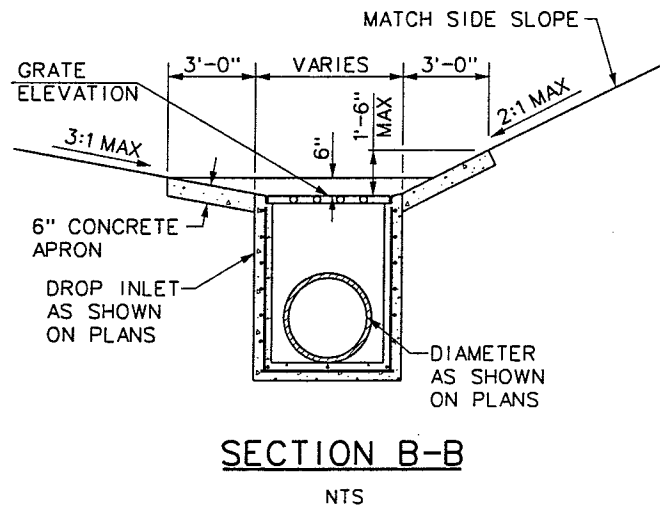
THE LOUIS BERGER
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LAS VEGAS, NEVADA

REFERENCE FILE: 851-border.mst - 851-slamp.mst

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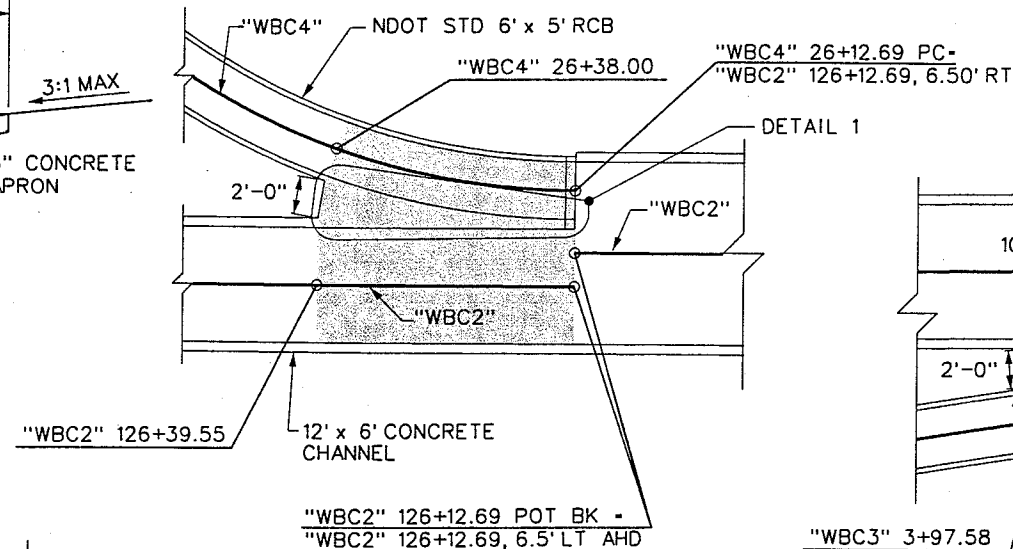
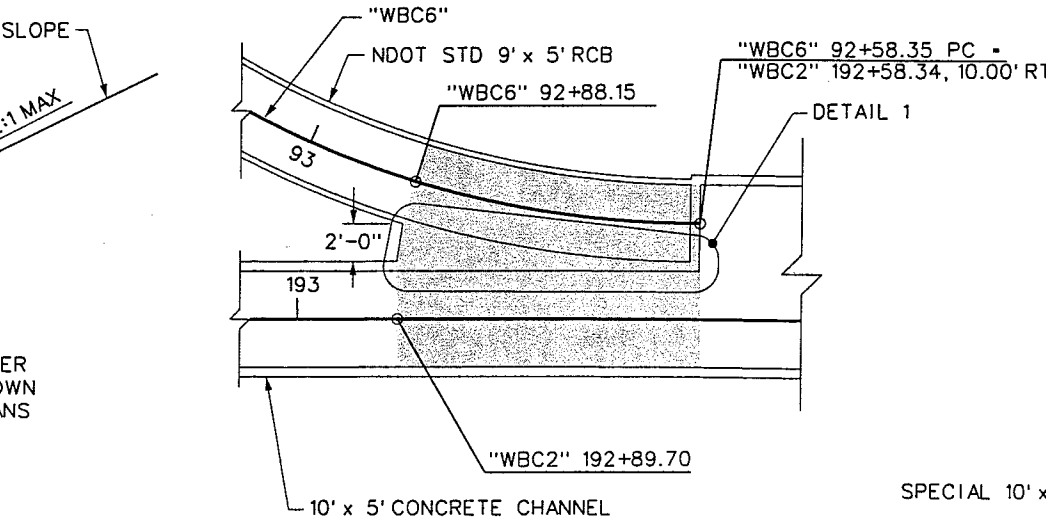


A CONCRETE APRON
SD-44 NTS

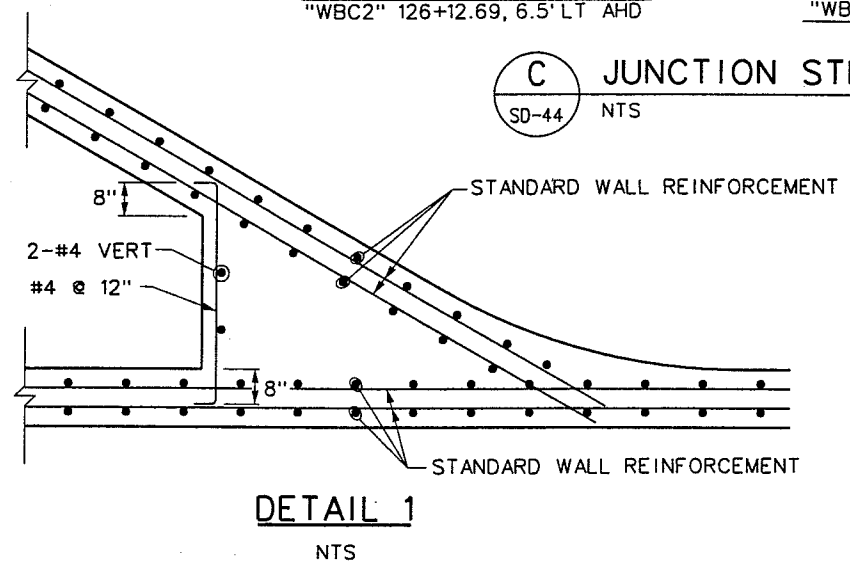


STATION TO STATION	b	h	Z	CLASS

B RIP RAP CHANNEL
SD-44 NTS



C JUNCTION STRUCTURES
SD-44 NTS



NOTES:

1. SEE NDOT STD DWG B-20.1.2 AND SHEET SD-45 FOR REINFORCEMENTS NOT SHOWN
2. HATCHED AREAS ARE JUNCTION STRUCTURE PAY ITEMS AS DEFINED IN THE SPECIFICATIONS.

REV. NO.	DATE	DESCRIPTION	APPROVED

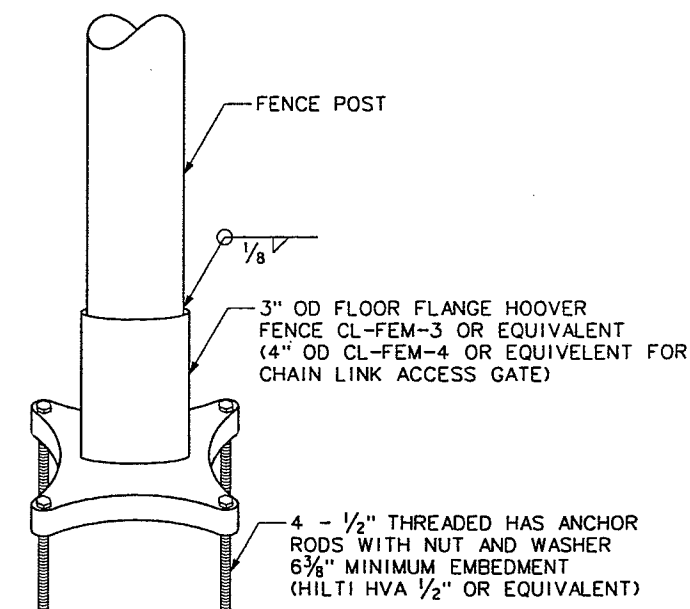


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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4-12-02

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

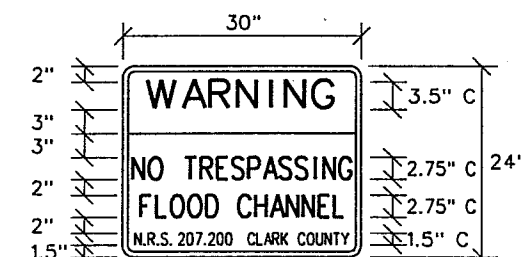
SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK
DRAWING NO.
SD-44
OF
L-1695



DETAIL 1
NTS



1. SEE CHANNEL SECTION DETAILS FOR DIMENSIONS AND REINFORCEMENTS NOT SHOWN.
2. BRACE POSTS SHALL BE PLACED A MAXIMUM OF 250' AND AT END POSTS.
3. DETAIL 3 TO BE USED FOR ENTIRE SAFETY FENCE.



BACKGROUND - WHITE
BORDER & LEGEND - BLACK
MARGIN - $\frac{3}{8}$ "
BORDER - $\frac{5}{8}$ "
RADIUS - $\frac{1}{2}$ "

B SIGN DETAIL
SD-45 NTS

[illegible]

DRAINAGE DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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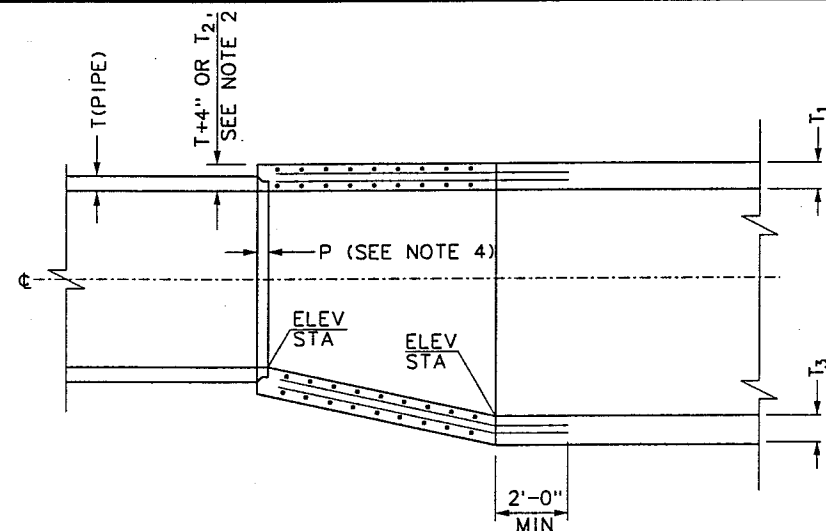
PROJECT NO: 851 DRAWN BY: ECG
DESIGNED BY: SRF CHECKED BY: SJD
APPROVED BY: TDL

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

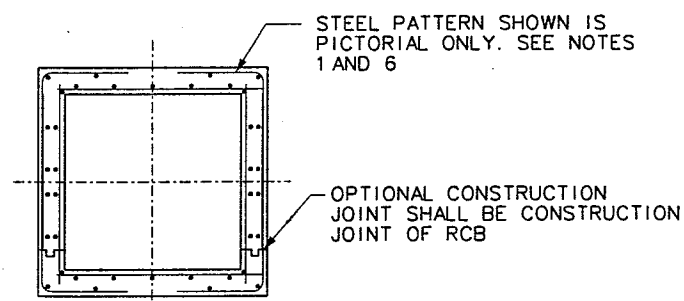
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FIELD BOOK

DRAWING NO.
SD-45
OF
1-1695

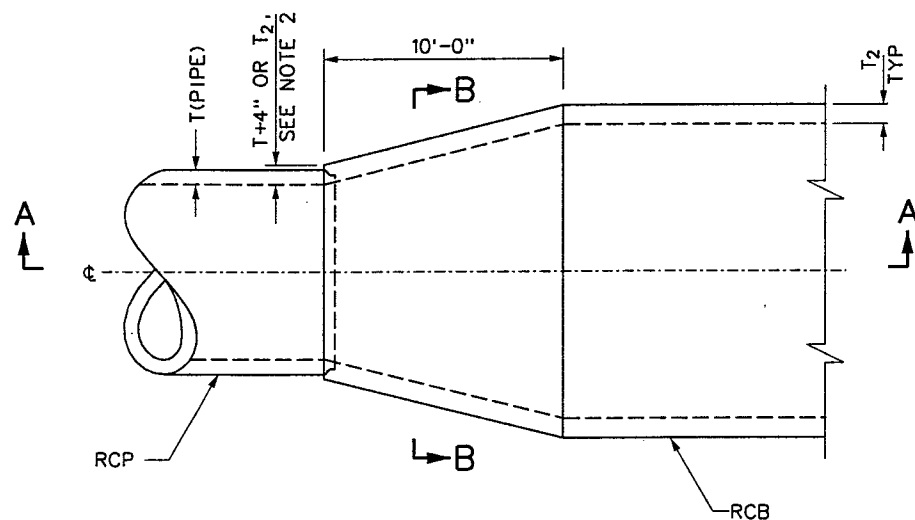
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SECTION A-A



SECTION B-B



PLAN

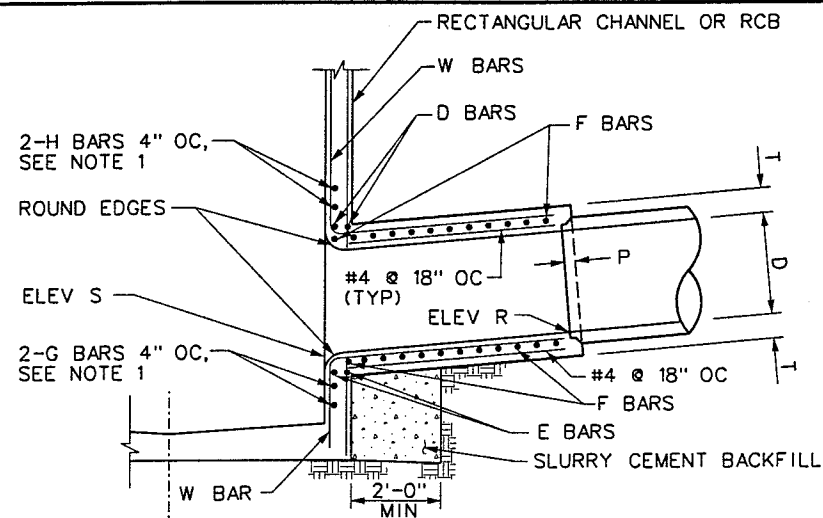
A PIPE TO CHANNEL CONNECTION
SD-46 NTS

DETAIL A NOTES:

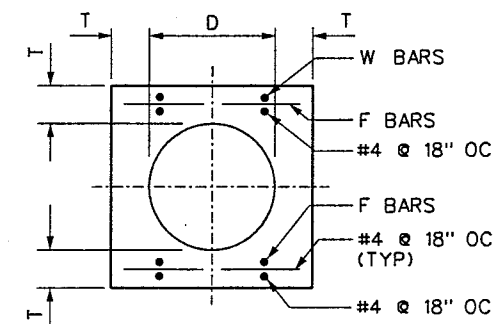
1. REINFORCING STEEL BAR SIZES, SPACING, PATTERN AND COVER OVER THE STEEL SHALL BE THAT OF RCB SECTION. THE BAR LENGTHS SHALL VARY UNIFORMLY THROUGHOUT THE TRANSITION.
2. THE CONCRETE THICKNESS SHALL BE THAT OF THE RCB SECTION UNLESS THE WALL THICKNESS OF THE RCP PLUS 4" IS GREATER, IN WHICH CASE THE CONCRETE THICKNESS SHALL VARY UNIFORMLY FROM THAT OF THE RCB SECTION TO THAT OF THE RCP WALL PLUS 4".
3. THE INTERIOR SURFACE SHALL BE SMOOTH AND VARY UNIFORMLY BETWEEN THE TWO ADJOINING SECTIONS.
4. AT RCP JUNCTURE, EMBEDMENT P SHALL BE 5".
5. THE CONCRETE SHALL BE THE SAME MIX AS THE ADJACENT RCB.
6. ALL STEEL SHALL TERMINATE 2" CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
7. KEYED CONSTRUCTION JOINTS OF THE SAME DIMENSIONS AS THOSE OF THE RCB SECTION MAY BE CARRIED THROUGH THE TRANSITION STRUCTURE AT THE CONTRACTOR'S OPTION, SEE SECTION B-B.

DETAIL B NOTES:

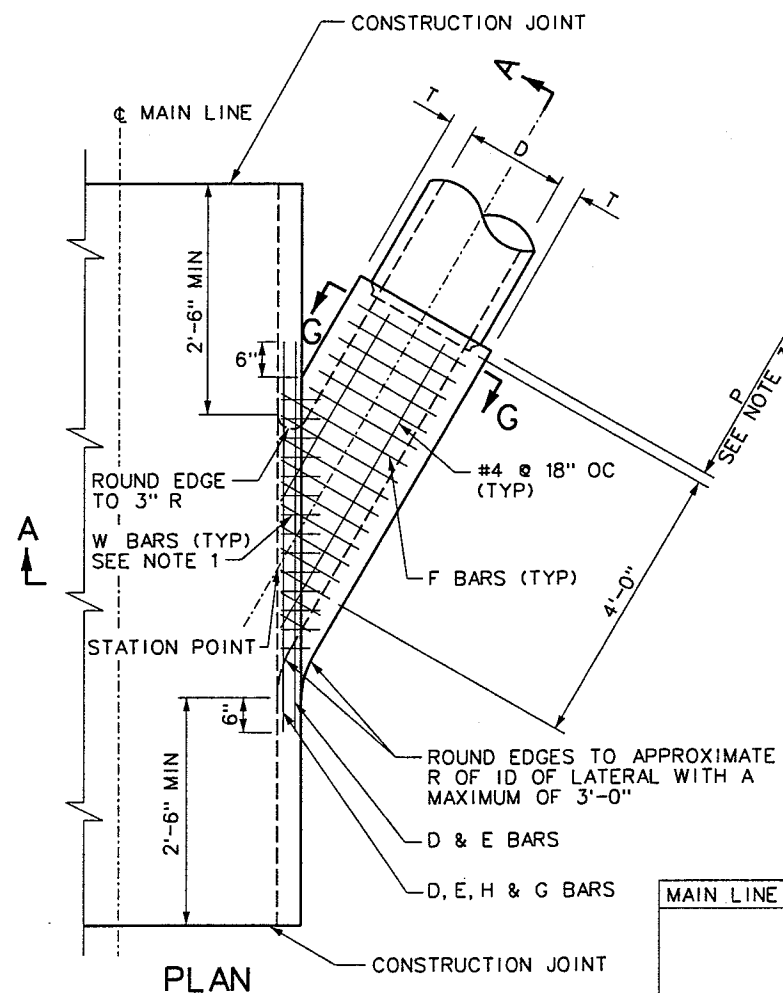
1. REINFORCING STEEL SHALL TERMINATE 2" CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
 - a. W BARS ARE OF SIZE AND SPACING SPECIFIED FOR WALL STEEL ON PROJECT DRAWINGS, AND SHALL BE CUT IN CENTER OF OPENING AND BEND INTO TOP AND BOTTOM OF JUNCTION STRUCTURE.
 - b. OMIT H BARS WHEN SOFFIT OF LATERAL IS 12" OR LESS BELOW SOFFIT OF MAIN LINE, AND OMIT G BARS WHEN INVERT OF SPUR IS 12" OR LESS ABOVE FLOOR OF MAIN LINE.
2. JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE, MANHOLE OR TRANSITION STRUCTURE.
3. EMBEDMENT, P, SHALL BE 5".
4. LATERALS OR CONNECTOR PIPES 24" OR LESS IN DIAMETER SHALL BE NO MORE THAN 5' ABOVE THE INVERT. LATERALS OR CONNECTOR PIPES 27" OR LARGER IN DIAMETER SHALL BE NO MORE THAN 18" ABOVE THE INVERT.



SECTION A-A



SECTION G-G



PLAN

B RCP LATERAL CONNECTION
SD-46 NTS

D	T	D, E, H & G BARS	F BARS
12"	5"	#5	#4 @ 6" OC
15"	5"		
18"	5"		
21"	5"		
24"	5 1/4"		
27"	5 1/2"		
30"	6"	#6	#5 @ 6" OC
33"	6 1/4"		
36"	6 1/2"		
39"	7"		
42"	7 1/2"		
45"	7 3/4"		
48"	8"	#6	#5 @ 6" OC
51"	8 1/2"		
54"	9"		
57"	9 1/4"	#6	#5 @ 6" OC

MAIN LINE STATION	ELEV S	ELEV R



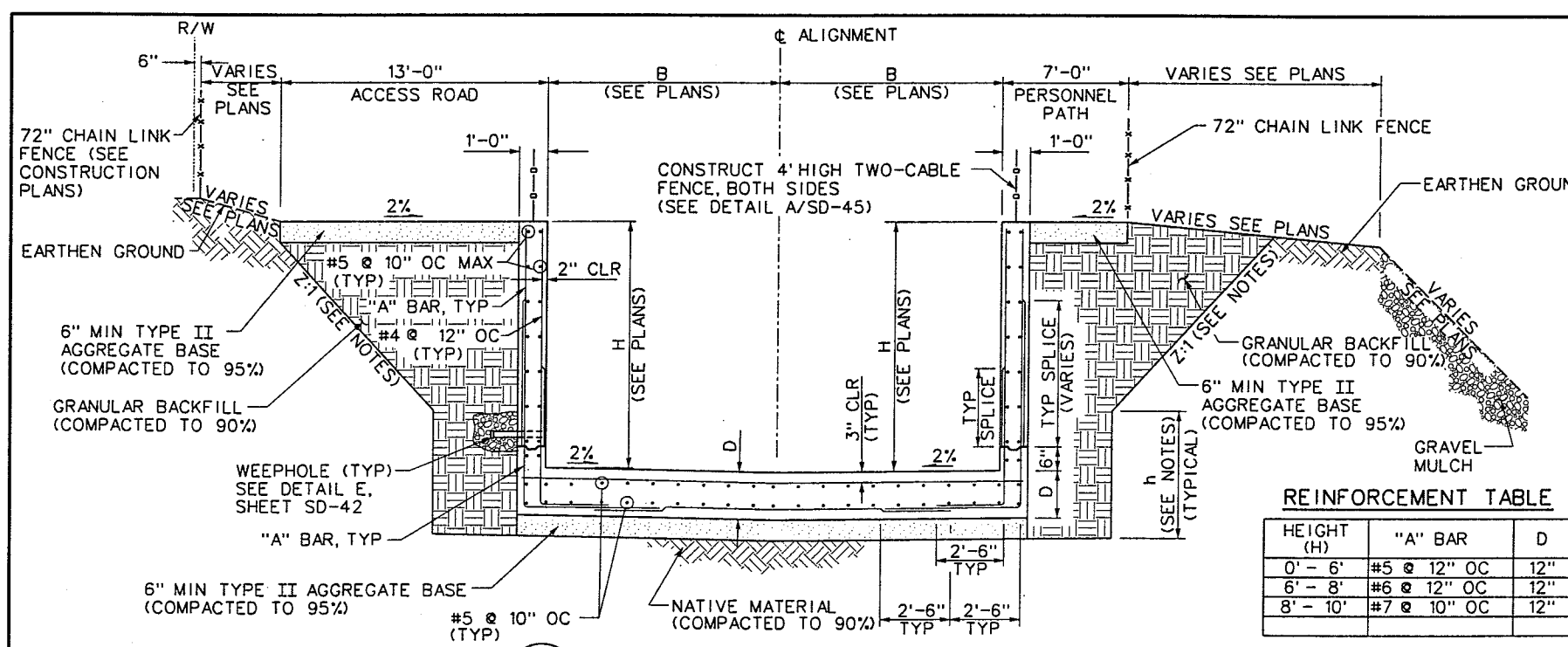
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: JR	SCALE	DRAWING NO.
DESIGNED BY: SRF	CHECKED BY: SJD	HORIZ: NONE	SD-46
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695



THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

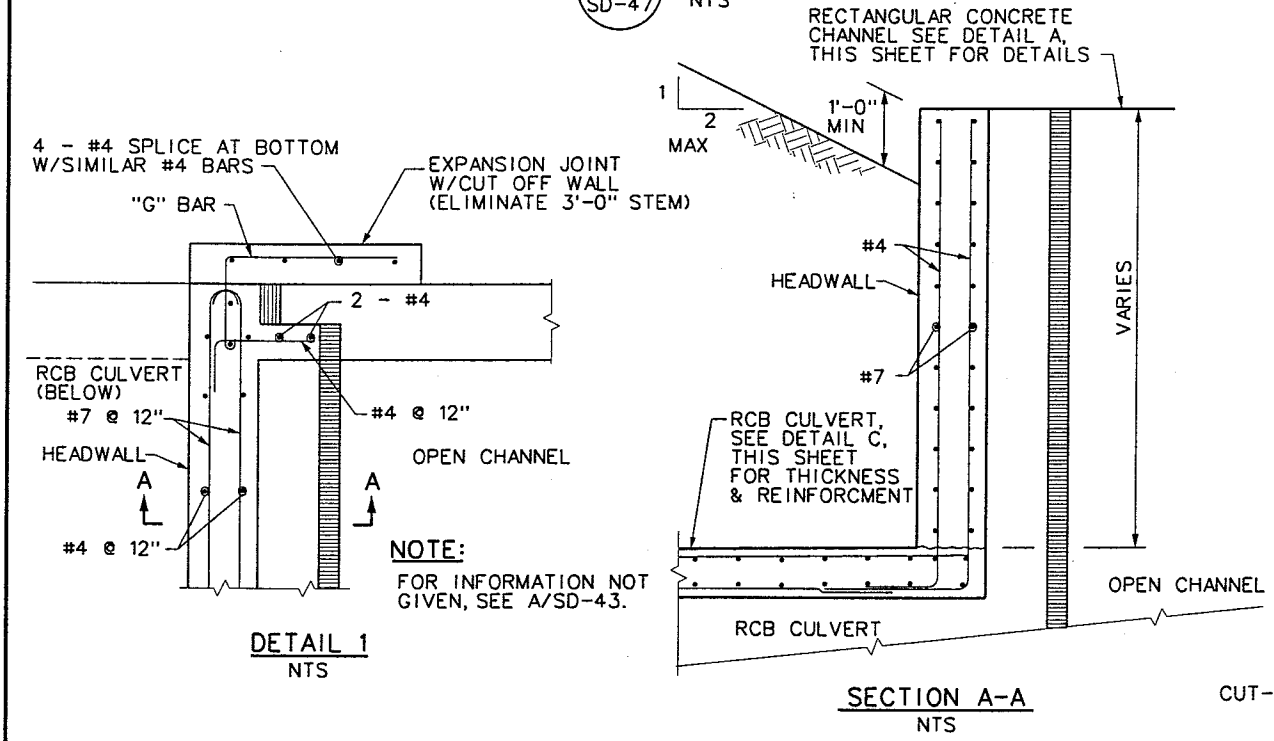


REINFORCEMENT TABLE

HEIGHT (H)	"A" BAR	D
0' - 6'	#5 @ 12" OC	12"
6' - 8'	#6 @ 12" OC	12"
8' - 10'	#7 @ 10" OC	12"

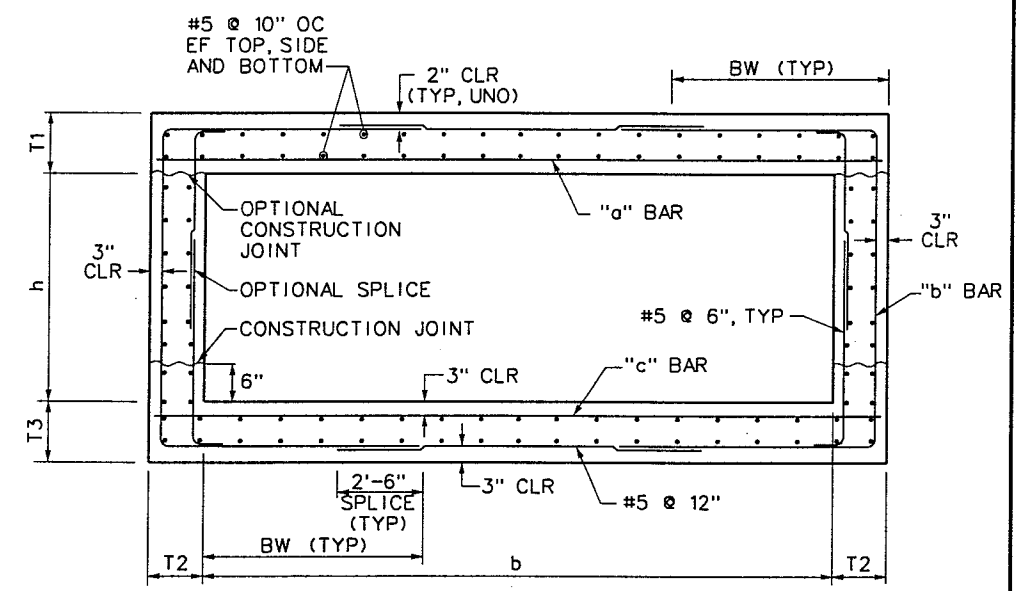
- NOTES:**
- DIMENSIONS "h" AND "z" PER OSHA GUIDELINES, PART 1926, SUBPART P FOR EXCAVATIONS.
 - CHANNEL BOTTOM CROSS SLOPE IS TO CENTER OF CHANNEL.
 - CHANNEL SECTION IS SHOWN FACING DOWNSTREAM.

A RECTANGULAR CONCRETE CHANNEL
SD-47 NTS



- NOTES:**
- FOR STANDARD COPING WALL HEIGHT (SEE NDOT STD DWG B-20.1.1)
 - UPSTREAM CUT-OFF WALL CONNECTION SHOWN. SEE DETAIL, SHEET SD-41 FOR DOWNSTREAM CONNECTION.
 - DETAILS SHOWN ARE FOR RCB WITH 0° SKEW. DIMENSIONS ARE IDENTICAL FOR SKEWED RCB.

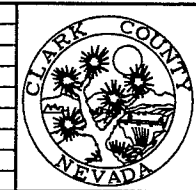
B COPING AND CHANNEL CONNECTION
SD-47 NTS



- NOTES:**
- SEE DETAIL A THIS SHEET FOR BEDDING AND BACKFILL REQUIREMENTS.
 - FOR b = 10', h = 6' AND b = 12', h = 6' SEE NDOT STD DRAWING B-20.1.2, EXCEPT T2 = T3 = 12"

b = 16', h = 6'	
T1	12"
T2	12"
T3	12"
BW	5'-0"
"a" BAR	#7 @ 6"
"b" BAR	#7 @ 6"
"c" BAR	#7 @ 6"

C SPECIAL RCB CULVERT
SD-47 NTS



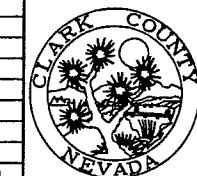
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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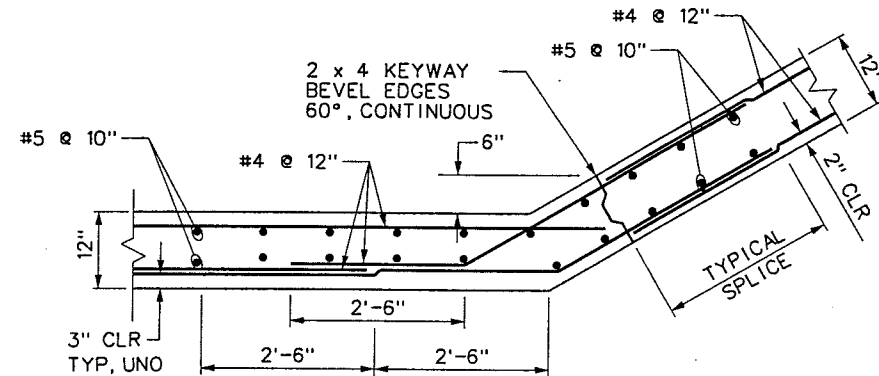
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DESIGNED BY: SRF	CHECKED BY: SJD	HORIZ: NONE	SD-47
APPROVED BY: TDL		VERT: NONE	OF
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REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Details\851-SD-47.dgn 4/17/2002 9:06:50 JHG



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TRAPEZOIDAL CHANNEL
SECTION B-B
NTS

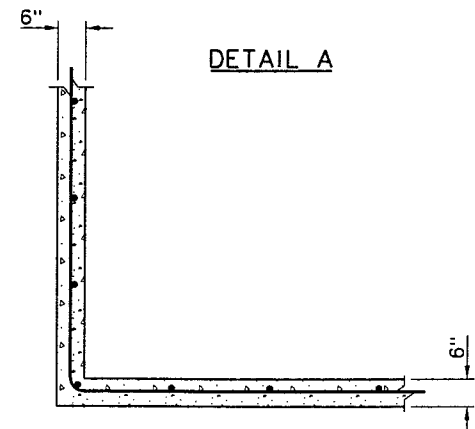
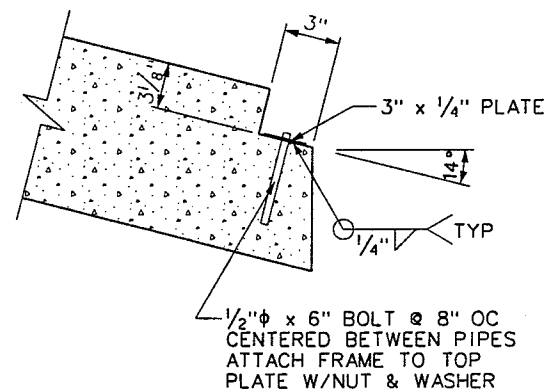
CLASS	STATION (1) TO STATION (2)	W_1	W_2	h_1	h_2	S

1. DIMENSIONS "h" AND "Z" PER OSHA GUIDLINES, PART 1926, SUBPART P FOR EXCAVATIONS.
2. CHANNEL BOTTOM CROSS SLOPE IS TO CENTER OF CHANNEL.
3. FOR RIGHT-OF-WAY AND CHAIN LINK FENCING SEE SHEET SD-47.
4. IN SECTION B CONSTRUCT WEEP HOLES PER DETAILS E/SD-42 IN OPPOSITE HALF SECTION.

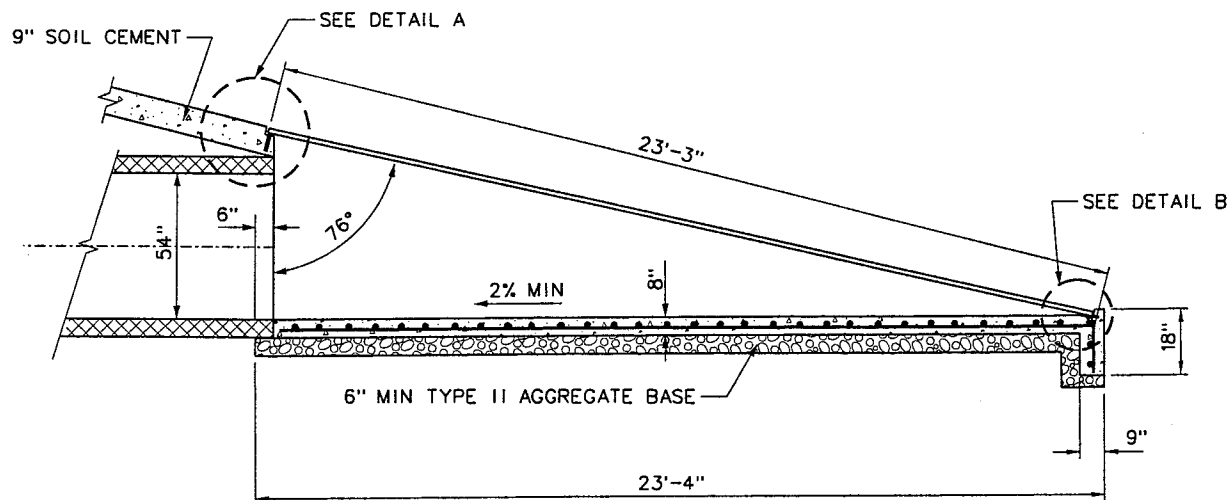
A TRAPEZOIDAL TRANSITION (HALF SECTION)
SD-48 NTS

[illegible]

PROJECT NO: <u>851</u>	DRAWN BY: <u>JR</u>	SCALE	DRAWING NO.
DESIGNED BY: <u>SRF</u>	CHECKED BY: <u>SJD</u>	HORIZ: NONE	SD-48
APPROVED BY: <u>TDL</u>		VERT: NONE	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	OF
			1-1695

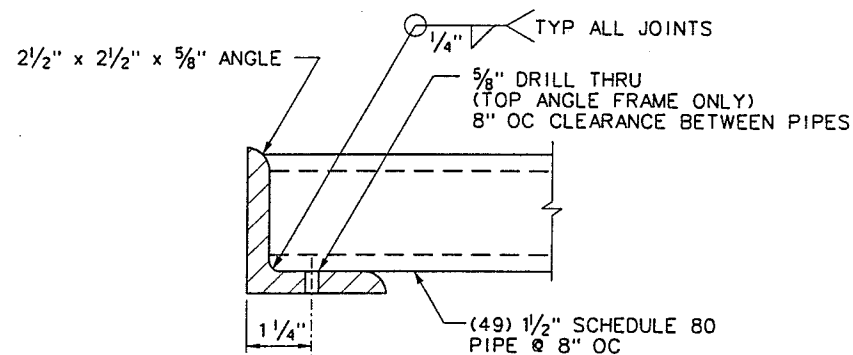


SECTION B-B

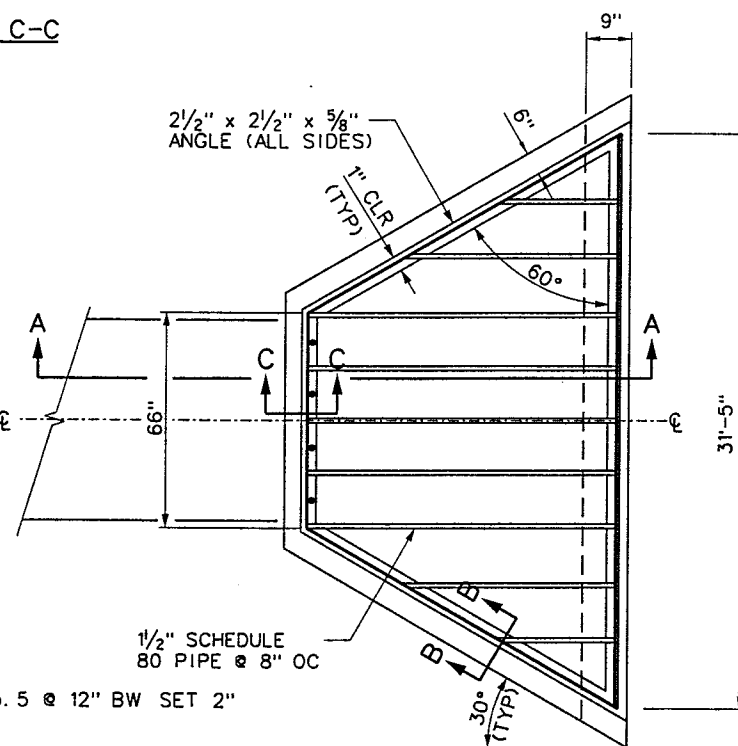


A TRASH RACK
SD-50 NTS

DETAIL B



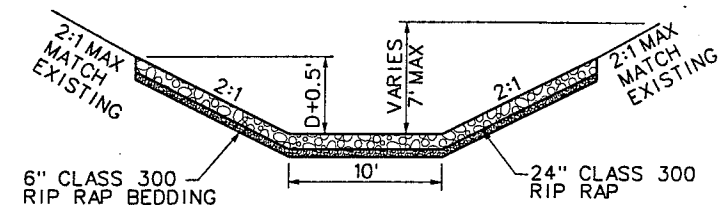
SECTION C-C



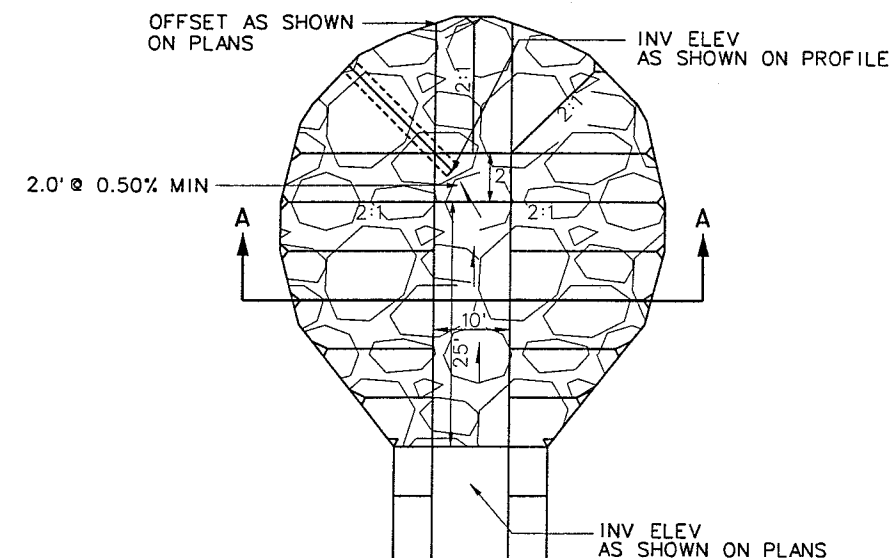
PLAN VIEW

NOTES:

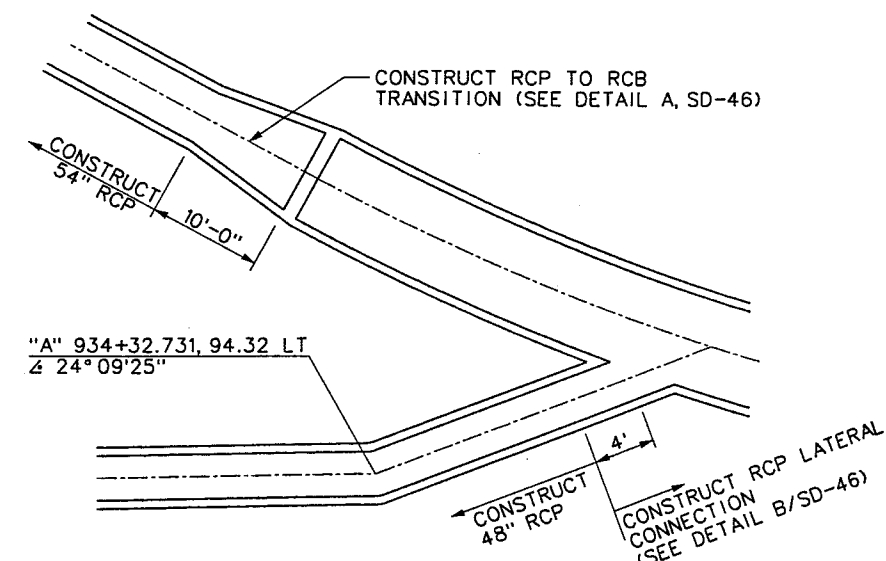
- 1) REINFORCING STEEL SHALL BE No. 5 @ 12" BW SET 2" CLEAR OF CONCRETE SURFACE.
- 2) ALL METAL PARTS SHALL BE GALVANIZED AFTER WELDING.
- 3) ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4".
- 4) PLACE A MINIMUM OF 6" OF TYPE II, AGGREGATE BASE COMPACTED TO A MINIMUM OF 95% UNDER ALL CONCRETE.



SECTION A-A



B INLET STRUCTURE
SD-50 NTS



C RCP LATERAL ANGLE POINT DETAIL
SD-50 NTS

REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interm\Drainage\Details\851-SDD-22.dgn - 4/12/2002 - 13:31:27 JR

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

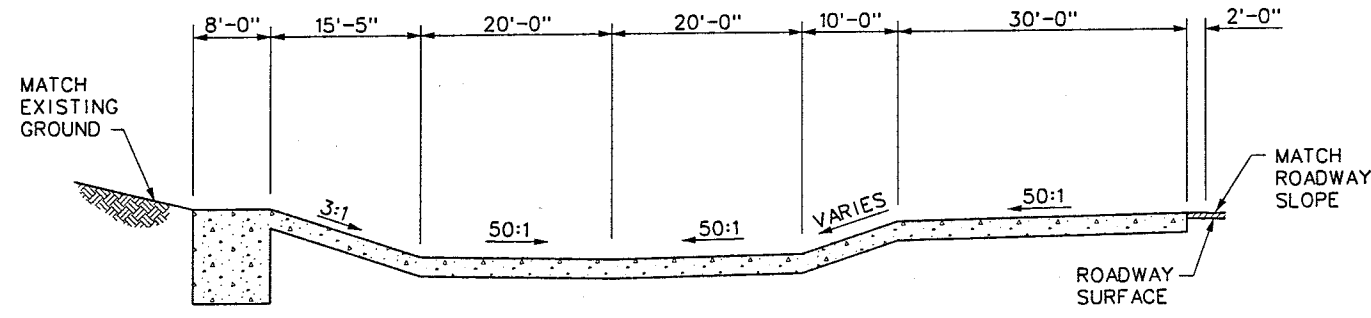
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: JR	SCALE	DRAWING NO. SD-50
DESIGNED BY: SRF	CHECKED BY: SJD	HORIZ: NONE	OF
APPROVED BY: TDL		VERT: NONE	
		FIELD BOOK	
			L-1695

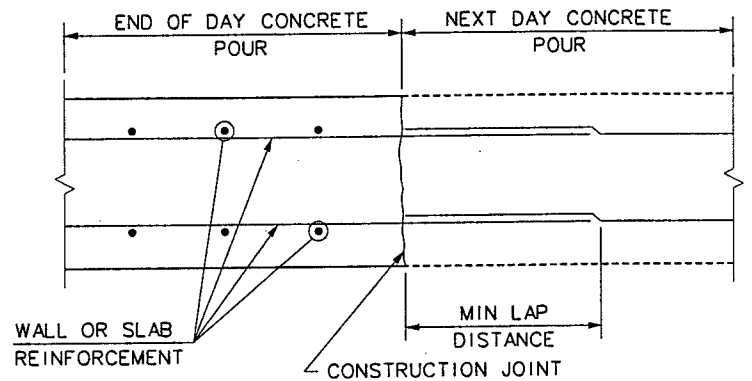


THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

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



A SOIL CEMENT CHANNEL
SD-51 NTS



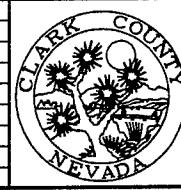
NOTES:

1. REINFORCEMENT TO BE EPOXY COATED ACROSS CONSTRUCTION JOINT.
2. SEE CHANNEL SECTION DETAILS FOR DIMENSIONS AND REINFORCEMENT NOT SHOWN.
3. ONLY ONE TRANSVERSE JOINT MAY BE USED BETWEEN EXPANSION JOINTS. THE LOCATION OF THE TRANSVERSE JOINT SHALL BE PLANNED IN ADVANCE AND SHOWN ON THE POUR SCHEDULE FOR APPROVAL BY THE ENGINEER. NO TRANSVERSE JOINT SHALL BE PLACED WITHIN 20' UPSTREAM OR DOWNSTREAM OF AN EXPANSION JOINT.

B TRANSVERSE CONSTRUCTION JOINT
AT END OF DAY CONCRETE POUR
SD-51 NTS

REFERENCE FILE: V:\851 Ann Rd to El Capitan\Interim\DRAINAGE\Details\851-SDD-24.dgn ~ 4/9/2002 ~ 8:56:13 JHG

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

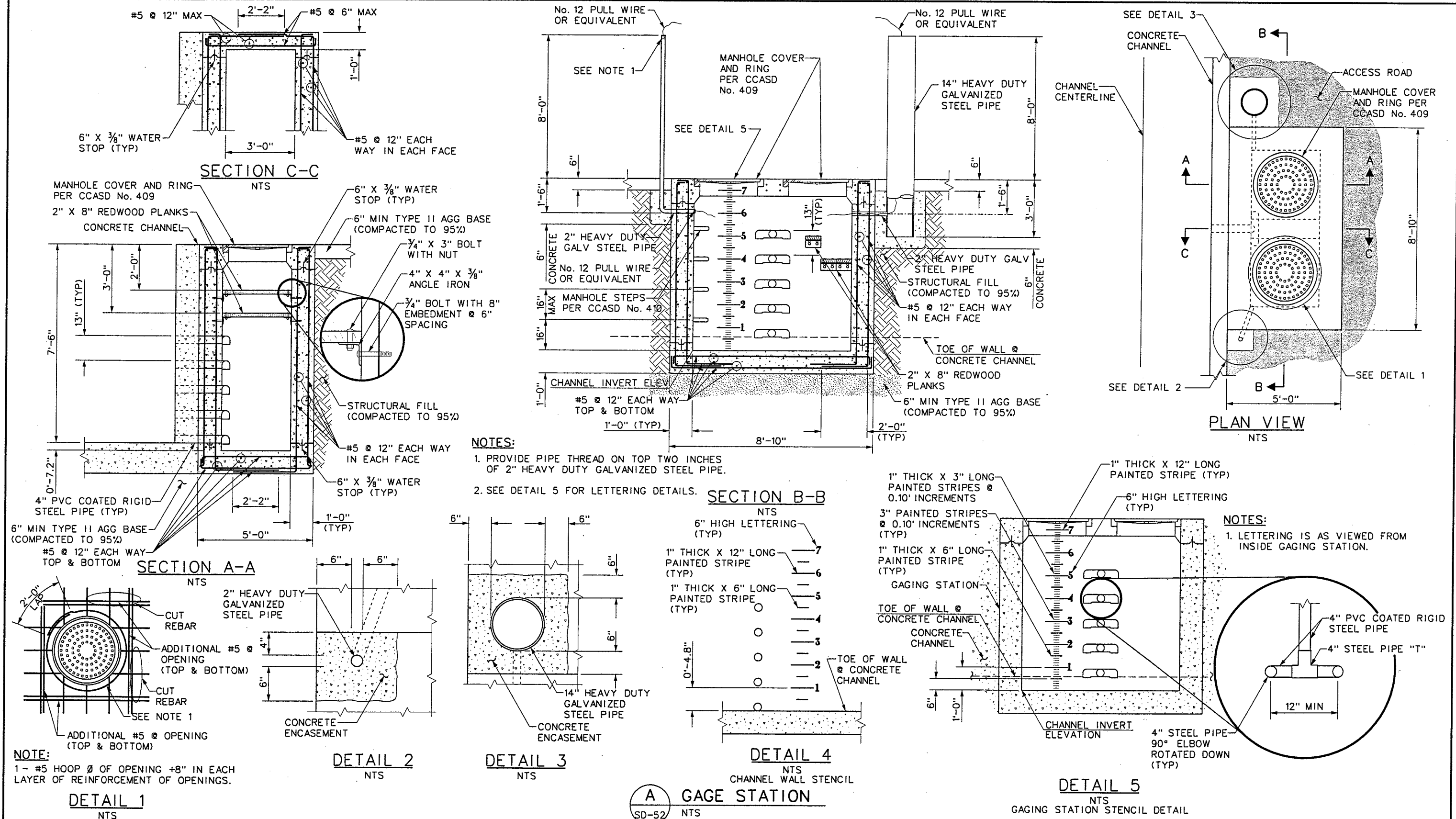
90%
PRELIMINARY
4-12-02

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

SCALE
HORIZ: NONE
VERT: NONE
FIELD BOOK

DRAWING NO.
SD-51
OF
L-1695

REFERENCE: 851-border.mst - 851-stomp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\DRAINAGE\Details\851-SDD-23.dgn - 4/12/2002 - 11:35:01 JR

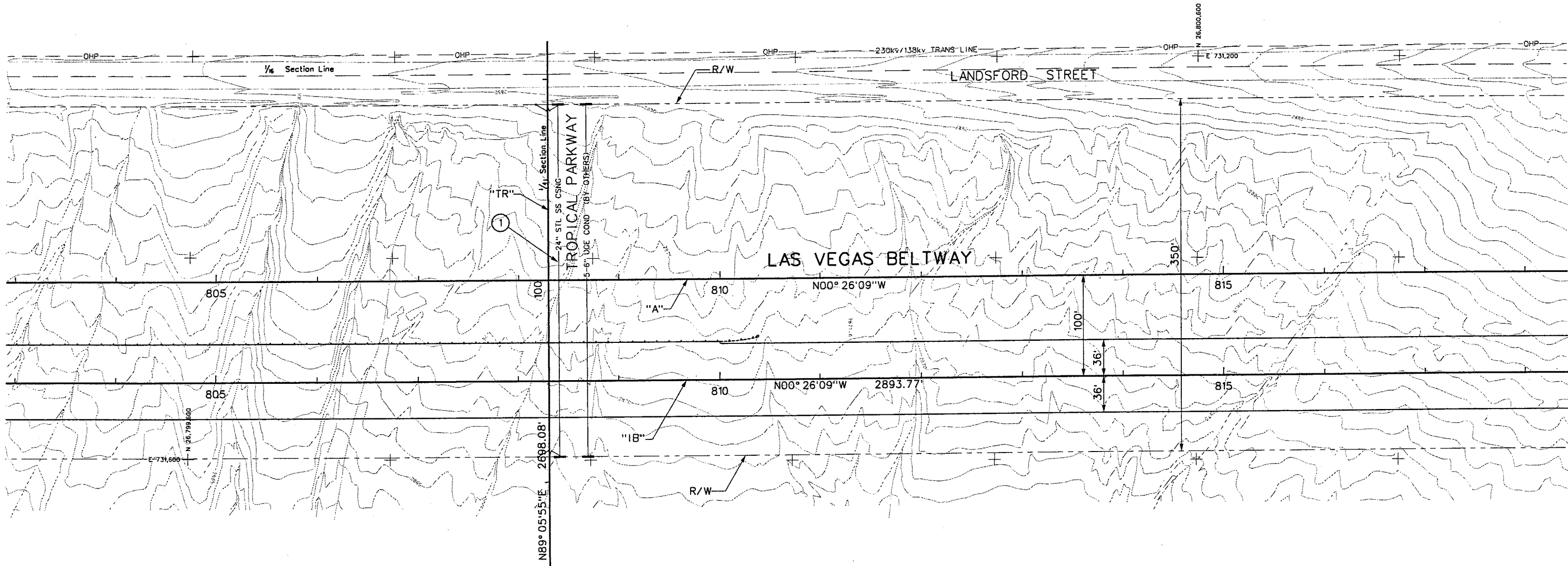


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
DRAINAGE DETAILS
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

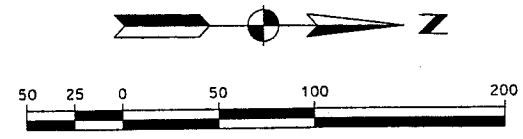
PROJECT NO: 851	DRAWN BY: GFV	SCALE	DRAWING NO.
DESIGNED BY: RRB	CHECKED BY: SJD	HORIZ: NONE	SD-52
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

REFERENCE FILE: 851-topo.mst ~ 851-border.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-stamp.mst ~ 851-utility.mst ~ 851-INT-GEO.MST
FILE NAME: V:\851 Ann Rd to El Capitan\interm\utilities\851-1\U01.dgn ~ 4/9/2002 ~ 9:20:57 JHG



- ① "A" 808+40, 175' LT TO "A" 808+40, 175' RT CONSTRUCT 24" x 1/4" THICK PLATE STEEL CASING PER CLV STANDARDS (SEE DETAILS SHEET U-11).

Avoid cutting underground utility lines. If you do, Call Before You Dig 1-800-227-2600



REV. NO.	DATE	DESCRIPTION	APPROVED



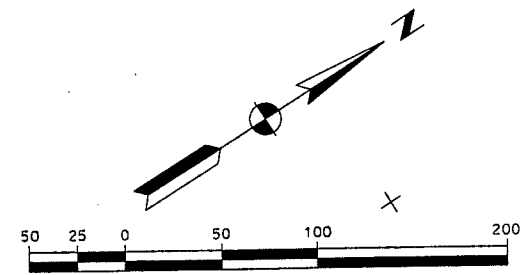
WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"A" 804+00.00 TO "A" 818+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

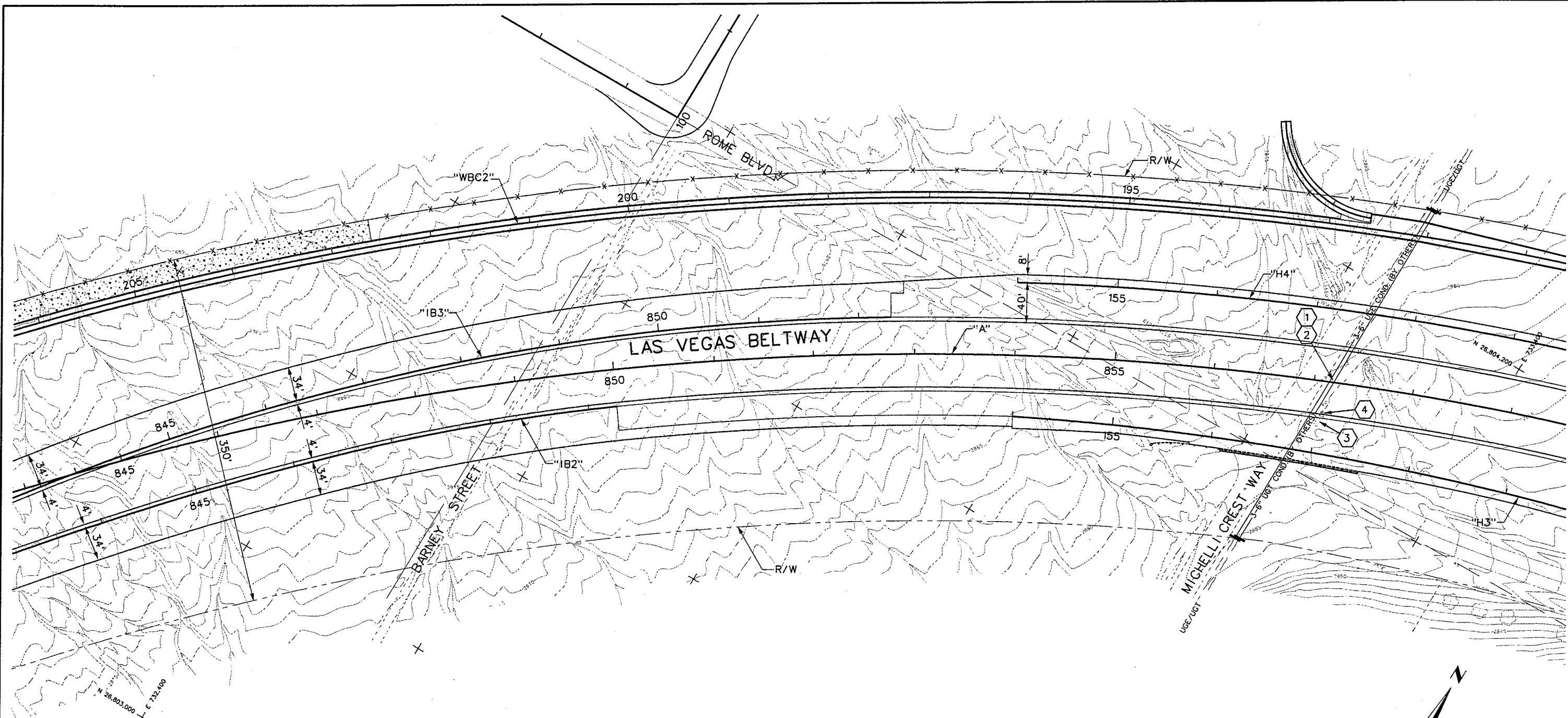
PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: TCC CHECKED BY: DPW
APPROVED BY: TDL
 THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
U-1
OF
L-1695

[illegible]

REFERENCE FILE: 851-INTERM-NBC-ALGN.mst ~ 851-INTERM-NBC-GEOM.mst ~ 851-topo.mst ~ 851-border.mst ~ 851-contours.mst ~ 851-ROW.MS ~ 851-GRID.mst ~ 851-utility.mst ~ 851-stamp.mst ~ 851-cent.mst ~ 851-intermalign.mst ~ 851-INT-GEOM.MST
FILE NAME: V:\851 Ann Rd to El Capitan\Interm\utilities\851-1U03.dgn ~ 3/25/2002 ~ 9:25:59 JHG



- ① UNDERGROUND ELECTRIC FACILITIES TO BE RELOCATED BY NEVADA POWER COMPANY.
- ② UNDERGROUND TELEPHONE FACILITIES TO BE RELOCATED BY SPRINT TELEPHONE.
- ③ ELECTRIC MANHOLE TO BE RELOCATED BY NEVADA POWER COMPANY.
- ④ TELEPHONE MANHOLE TO BE RELOCATED BY SPRINT TELEPHONE.

As-built cutting underground
utility lines, it's costly.
Call
Before You
Dig
1-800-227-2600



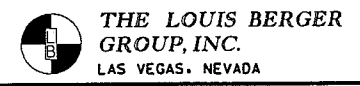
REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"A" 844+00.00 TO "A" 859+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

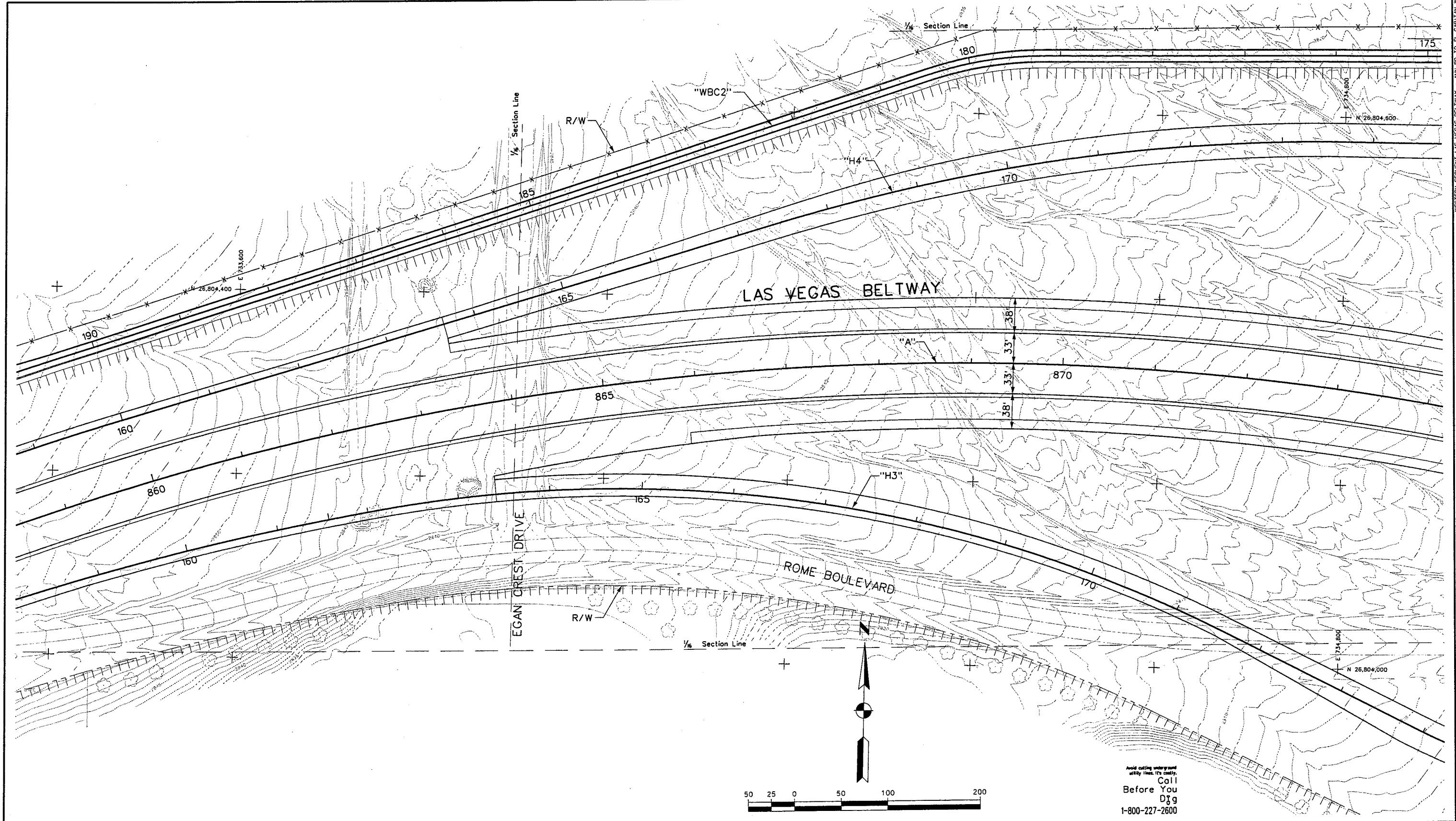
90%
PRELIMINARY
4-12-02

PROJECT NO: 851	DRAWN BY: WFD	SCALE	DRAWING NO.
DESIGNED BY: TCC	CHECKED BY: DPW	HORIZ: AS SHOWN	U-3
APPROVED BY: TDL		VERT: NONE	OF
		FIELD BOOK	
			L-1695

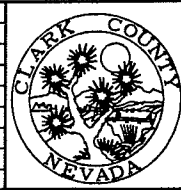


WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY

REFERENCE FILE: 851-GRD.mst ~ 851-internal\ign.mst ~ 851-topo.mst ~ 851-border.mst ~ 851-contours.mst ~ 851-l-DRAINAGE.mst ~ 851-INT-GEOM.MST ~ 851-INT-GEOM.MST ~ 851-stamp.mst ~ 851-INT-NBC-A\GN.mst ~ 851-INT-NBC-GEOM.mst
FILE NAME: V:\851 Ann Rd to El Capitan\intern\utilities\851-1004.dgn ~ 3/25/2002 ~ 9:27:42 JHG



REV. NO.	DATE	DESCRIPTION	APPROVED



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

90%
PRELIMINARY
4-12-02

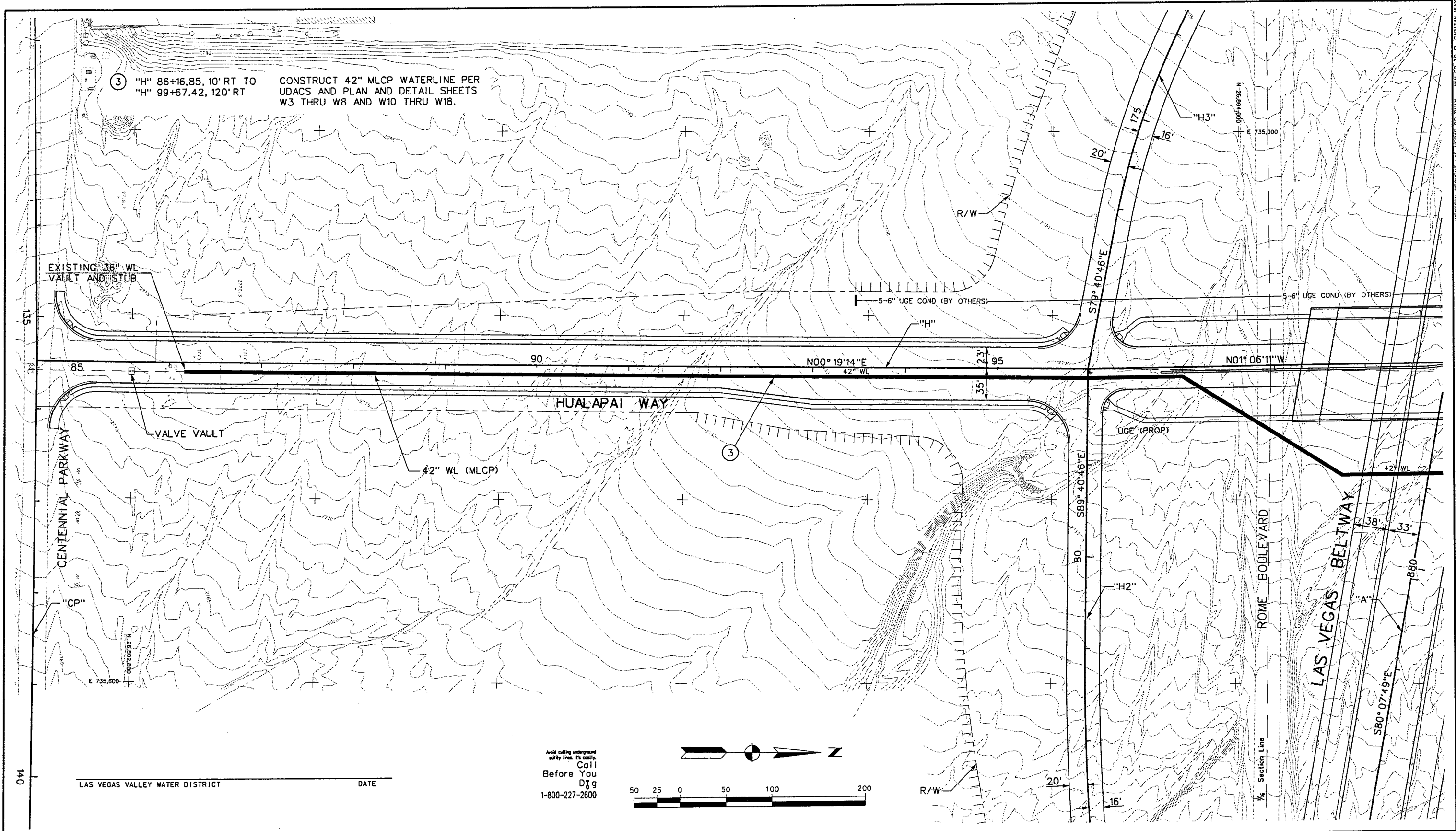
PROJECT NO: 851	DRAWN BY: WFD
DESIGNED BY: TCC	CHECKED BY: DPW
APPROVED BY: TDL	

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
U-4
OF
L-1695

REFERENCE FILE: 851-INT-GEO.MST ~ 851-INT-TOPO.MST ~ 851-INTERNALIGN.MST ~ 851-CONTOURS.MST ~ 851-BORDER.MST ~ 851-RUC.MST ~ 851-INT-STRIPE.MST ~ 851-ROW.MST ~ 851-STOP.MST ~ 851-UTIL.MST
FILE NAME: V:\851 Ann Rd to El Capitan\interm\utilities\851-1\U05.dgn ~ 3/25/2002 JHG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"H" 85+00.00 TO "H" 99+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

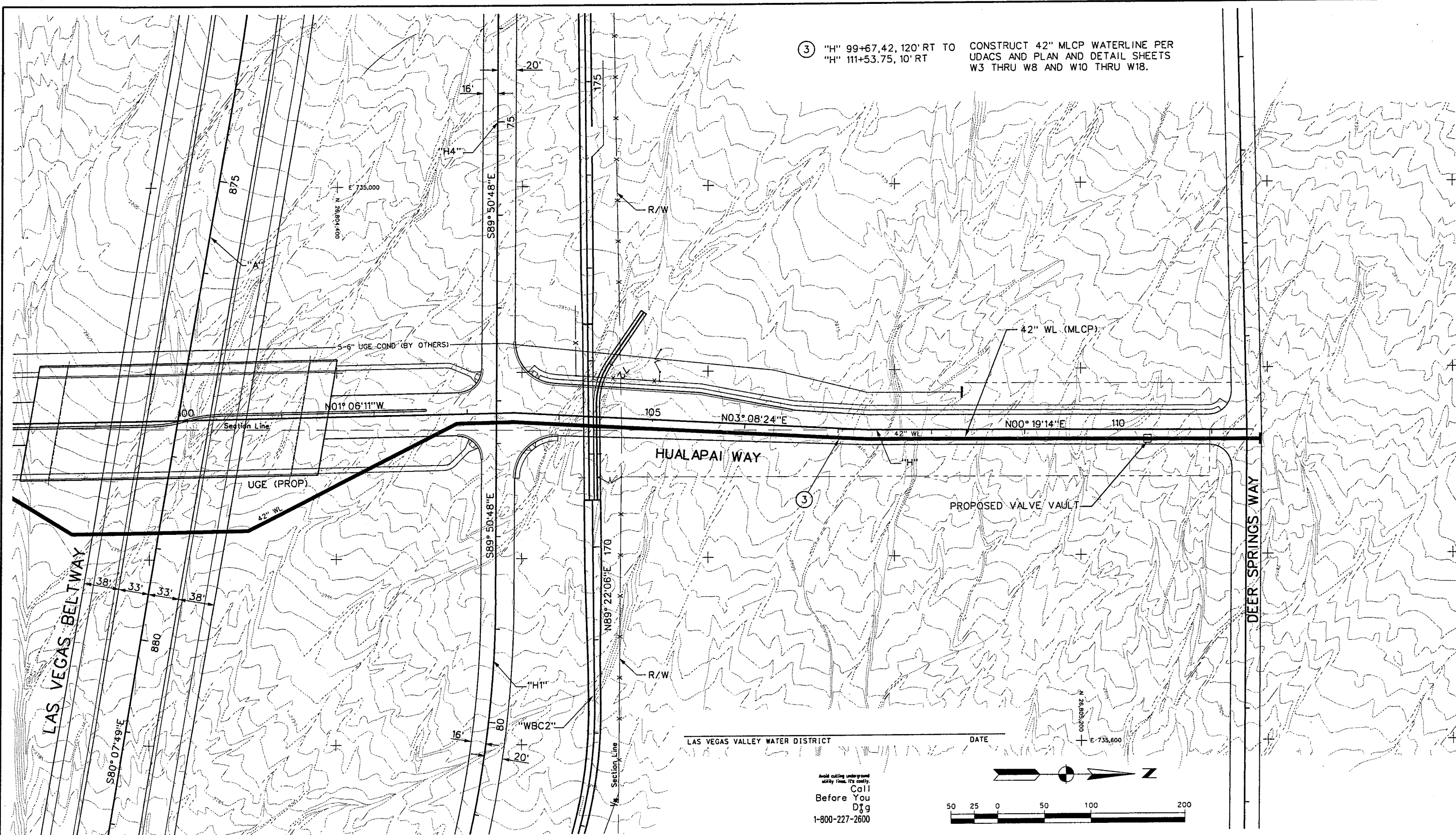
90%
PRELIMINARY
4-12-02

PROJECT NO: 851 DRAWN BY: WFD
DESIGNED BY: TCC CHECKED BY: DPW
APPROVED BY: TOL

THE LOUIS BERGER GROUP, INC.
LAS VEGAS, NEVADA

SCALE	DRAWING NO.
HORIZ: MNSHOWN	U-5
VERT: MNSHOWN	OF
FIELD BOOK	L-1695

REFERENCE FILE: 851-intermalign.mst ~ 851-INT-GEO.MST ~ 851-topo.mst ~ 851-contours.mst ~ 851-border.mst ~ 851-Rd-Ann.MST ~ 851-nbc.mst ~ 851-Int-Stripe.mst ~ 851-stamp.mst ~ 851-util.mst
FILE NAME: V:\851 Ann Rd to El Capitan\interm\utilities\851-UD06.dgn ~ 4/9/2002 ~ 9:31:17 JHC

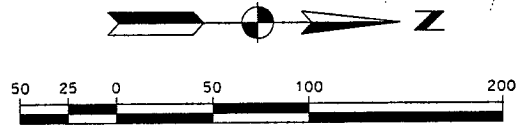


③ "H" 99+67.42, 120' RT TO
"H" 111+53.75, 10' RT
CONSTRUCT 42" MLCP WATERLINE PER
UDACS AND PLAN AND DETAIL SHEETS
W3 THRU W8 AND W10 THRU W18.

LAS VEGAS VALLEY WATER DISTRICT

DATE

Avoid cutting underground
utility lines. If's costly.
Call
Before You
Dig
1-800-227-2600



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"H" 99+00.00 TO "H" 111+65.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

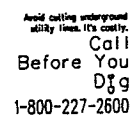
SCALE
HORIZ: ~~NOT~~ SHOWN
VERT: ~~NOT~~ SHOWN
FIELD BOOK

DRAWING NO.
U-6
OF
L-1695

The seal of Clark County, Nevada, is a circular emblem. It features a central landscape with a mountain range, a river, and a sun. The words "CLARK COUNTY" are inscribed along the top arc, and "NEVADA" is inscribed along the bottom arc.

"A" 901+00.00 TO "A" 915+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

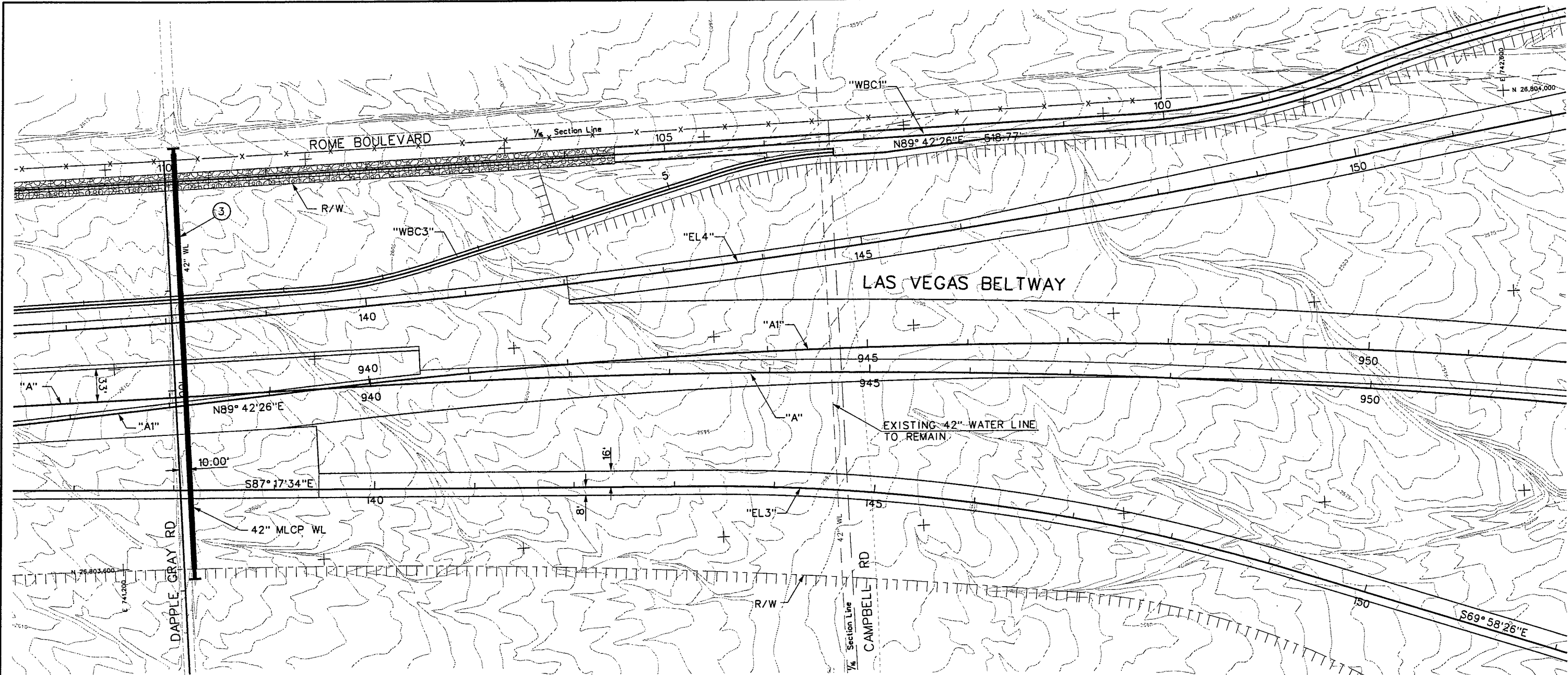
PROJECT NO: <u>851</u>	DRAWN BY: <u>WFD</u>	SCALE	DRAWING NO.
DESIGNED BY: <u>TCC</u>	CHECKED BY: <u>DPW</u>	HORIZ: AS SHOWN	U-7
APPROVED BY: <u>TDL</u>		VERT: NONE	
 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA		FIELD BOOK	OF
			1 -1695



90%
PRELIMINARY
4-12-02

PROJECT NO: <u>851</u>	DRAWN BY: <u>WFD</u>	SCALE _____ HORIZ: AS SHOWN VERT: NONE FIELD BOOK _____ _____ _____ _____	DRAWING NO.
DESIGNED BY: <u>TCC</u>	CHECKED BY: <u>DPW</u>		U-8 OF _____ _____ L-1695
APPROVED BY: <u>TDL</u>			

REFERENCE FILE: 851-INT-CEOMST ~ 851-internal.ign.mst ~ 851-topo.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-border.mst ~ 851-Int-Stripe.mst ~ 851-stamp.mst ~ 851-util.mst
FILE NAME: V:\851 Ann Rd to El Capitan\InterUtilities\851-U09.dgn ~ 3/25/2002 ~ 10:48:11 JHG

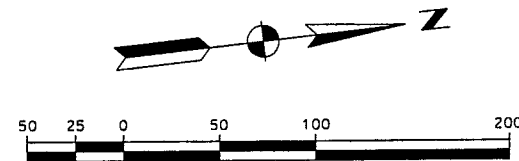


- ③ "A" 938+16.12, 248.67' LT TO
"A" 938+15.51, 182.17' RT
- CONSTRUCT 42" MLCP WATERLINE PER
UDACS AND PLAN AND DETAIL SHEETS
W9 THRU W18.

LAS VEGAS VALLEY WATER DISTRICT

DATE

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utility lines. It's costly.
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Before You
Dig
1-800-227-2600



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"A" 937+00.00 TO "A" 952+00.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

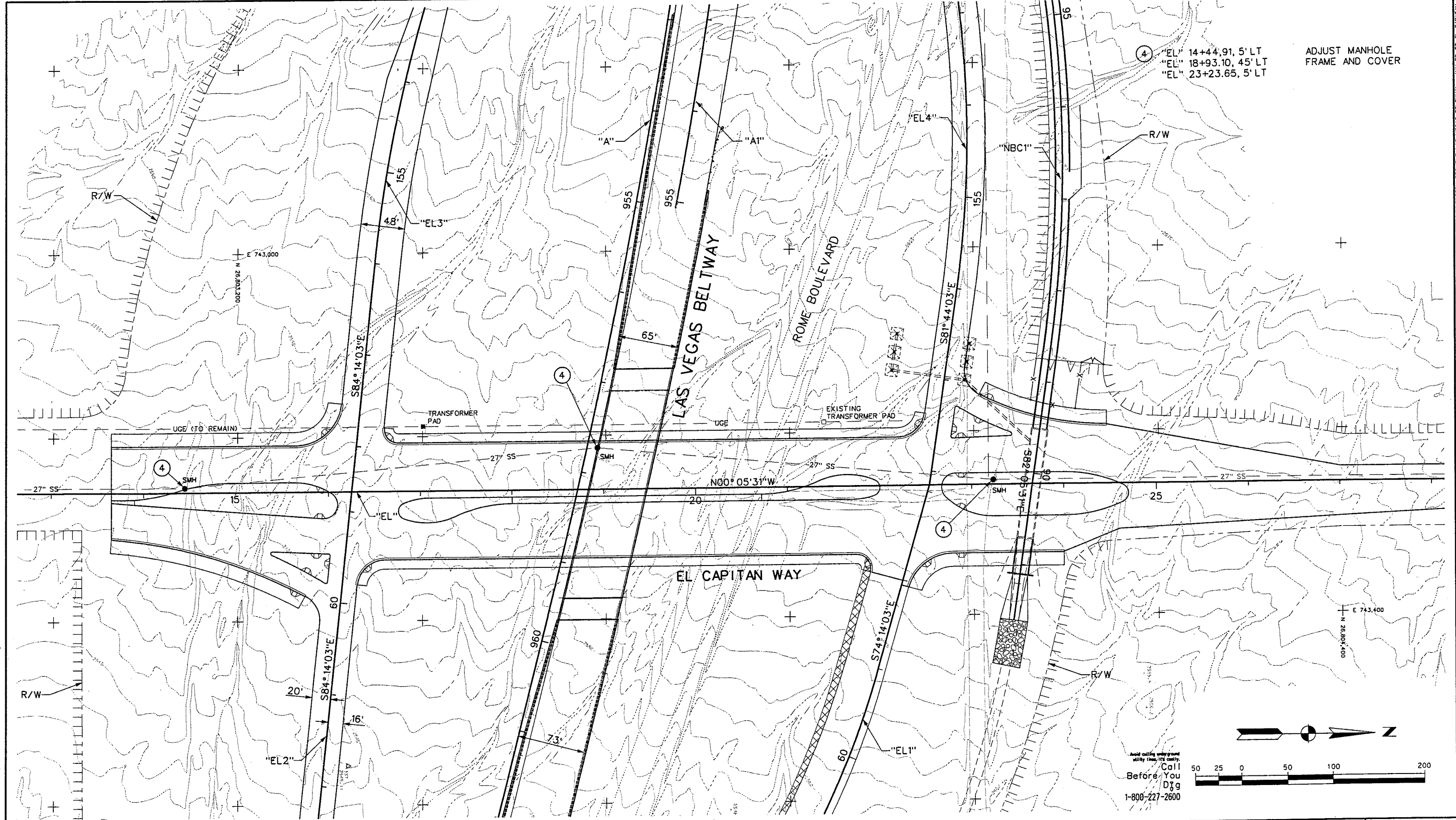
PROJECT NO: 851 DRAWN BY: GFV
DESIGNED BY: TCC CHECKED BY: DPW
APPROVED BY: TDL

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

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
U-9
OF
L-1695

REFERENCE FILE: 851-INT-Geo.MST ~ 851-INT-SV/pe.mst ~ 851-topo.mst ~ 851-contours.mst ~ 851-ROW.MST ~ 851-bu... ~ 851-1-DRAINAGE.MST ~ 851-util.mst ~ 851-stamp.mst ~ 851-internal.mst
FILE NAME: V:\851 Ann Rd to El Capitan\Intern\Utilities\851-UD.dgn ~ 3/25/2002 ~ 10:49:41 JHC



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
UTILITY PLAN
"EL" 25+00.00 TO "EL" 13+50.00
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

SCALE
HORIZ: AS SHOWN
VERT: NONE
FIELD BOOK

DRAWING NO.
U-10
OF
L-1695



"A" 808+40.00, 175' LT TO 175' RT
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

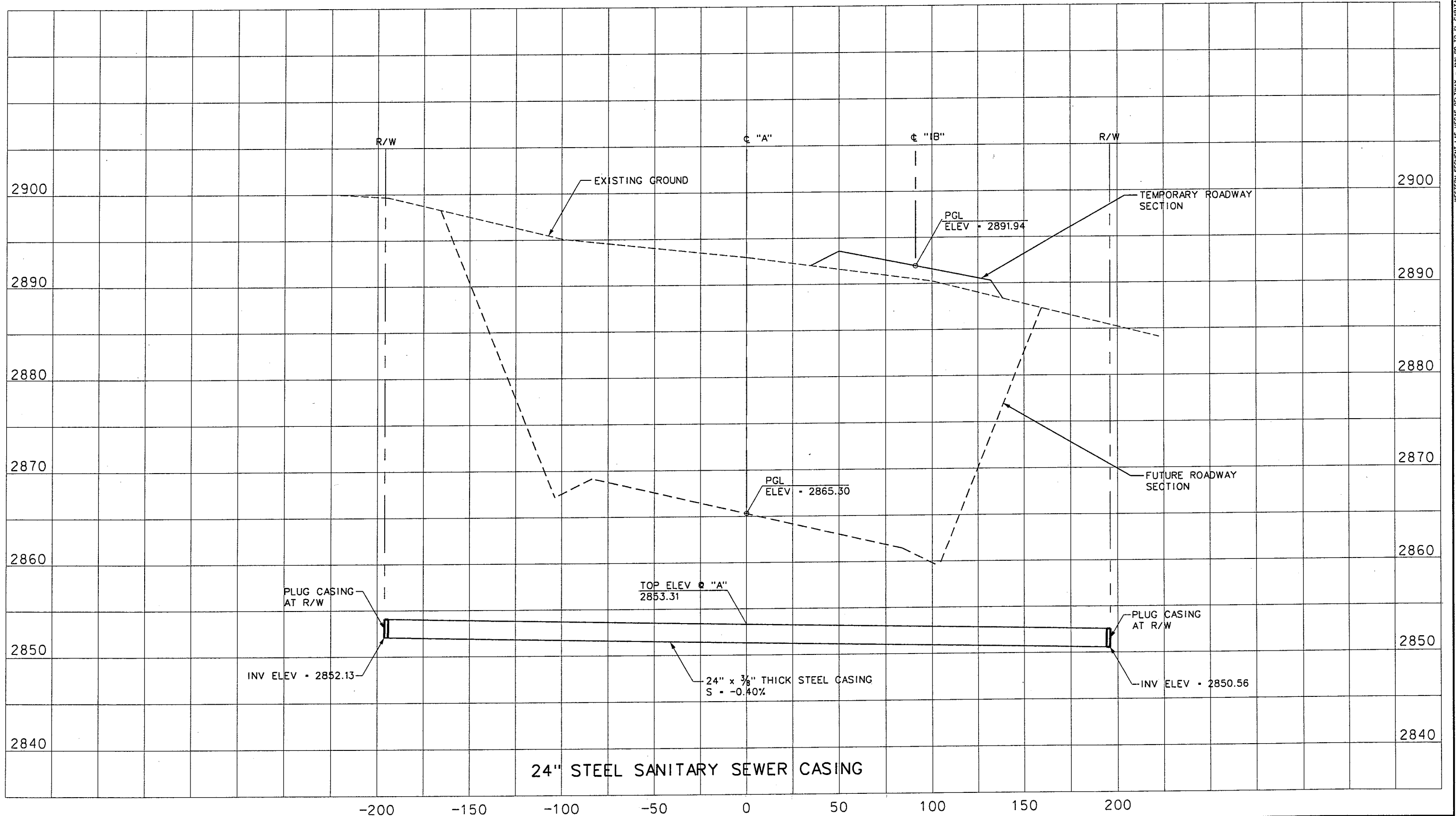


SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.
U-11
OF
L-1695

[illegible]

REFERENCE FILE: 851-border.mst - 851-initial-profile.mst - 851-pro-grid.mst - 851-SUPERELEV.dgn - 851-stamp.mst
FILE NAME: V:\851 Ann Rd to El Capitan\interm\utilities\851-1-UPR01.dgn ~ 3/25/2002 ~ 10:52:09 JHG



REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
PROFILE CENTENNIAL PARKWAY
"A" 834+52.69, 175' LT TO "A" 836+29.16, 175' RT
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

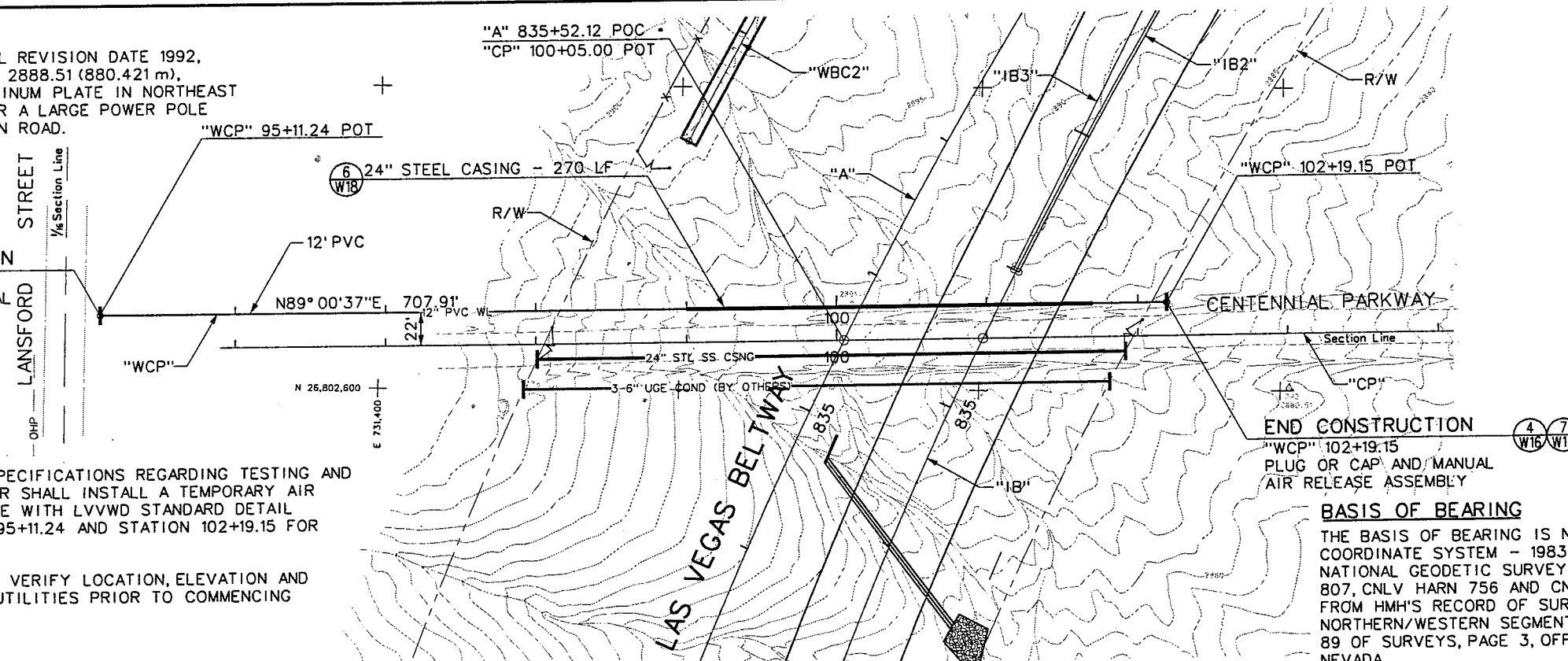
SCALE	DRAWING NO.
HORIZ: AS SHOWN	U-12
VERT: AS SHOWN	OF
FIELD BOOK	L-1695

[illegible]

CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992,
BENCHMARK IC99 - 25SSW6, ELEV 2888.51 (880.421 m),
BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST
CORNER OF A CONCRETE BASE FOR A LARGE POWER POLE
(#40-8) AT THE WEST END OF ANN ROAD. "WCE"

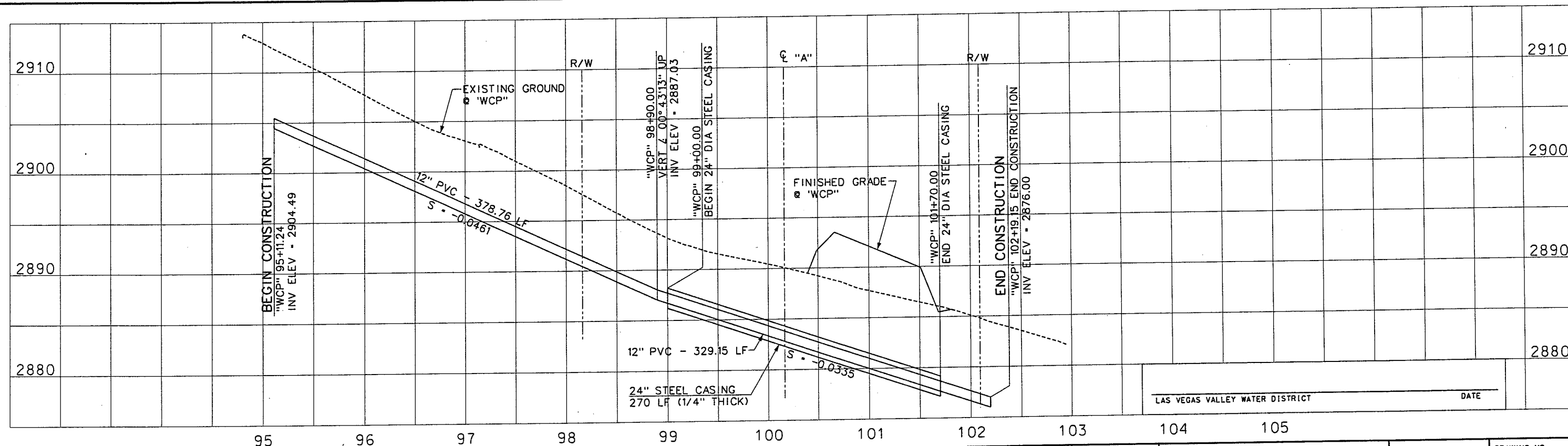
4 7
W16 W17 BEGIN CONSTRUCTION
"WCP" 95+11.24
PLUG OR CAP AND MANUAL
AIR RELEASE ASSEMBLY

1. SEE SECTION 02519 OF THE SPECIFICATIONS REGARDING TESTING AND DISINFECTION. THE CONTRACTOR SHALL INSTALL A TEMPORARY AIR RELEASE VALVE IN ACCORDANCE WITH LVWD STANDARD DETAIL No. PL10-2(2/07) AT STATION 95+11.24 AND STATION 102+19.15 FOR TESTING.
2. THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND CONDITION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION.



BASIS OF BEARING

THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CCGIS 807, CNLV HARN 756 AND CNLV HARN 748. THE BASIS OF BEARING IS TAKEN FROM HHM'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.



LAS VEGAS VALLEY WATER DISTRICT

1



WESTERN SEGMENT LAS VEGAS BELTWAY - ANN RD TO EL CAPITAN WAY
WATER LINE PLAN AND PROFILE
"WCP" 95+11.24 TO "WCP" 102+19.15
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

90%
PRELIMINARY
4-12-02

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

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

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
FIELD BOOK

DRAWING NO.

W
OF

L-169

[illegible]