

Item #5-4

CARSON CITY, NEVADA
REQUEST FOR BOARD ACTION

Date Submitted: October 5, 2007

Agenda Date Requested: October 18, 2007

Time Requested: Consent Agenda

To: Mayor and Supervisors

From: Public Works - Transportation/ Capital Projects

Subject Title: Action to approve an Addendum to Agreement No. P417-06-030 between the Nevada Department of Transportation (NDOT) and Carson City for the Adjustment of Utility Facilities for a Portion of the Carson City Freeway Project, Phase 2A in Fifth St and the Freeway Corridor to adjust the agreement costs to reflect the relocation contractor's bid prices and final construction plans, and extend the required completion date from September 14, 2007 to January 4, 2008.

Staff Summary: Carson City is in the process of relocating their facilities as part of the Carson City Freeway, Phase 2A Project and the above-described Addendum to the Agreement is necessary for the adjustment of the costs and schedule for the utilities relocation.

Type of Action Requested: (check one)

- Resolution
- Formal Action/Motion
- Ordinance
- Other (Specify)

Does This Action Require A Business Impact Statement: Yes No

Recommended Board Action: I move to approve and authorize the Mayor to sign the Addendum to Agreement No. P417-06-030 between the Nevada Department of Transportation (NDOT) and Carson City for the Adjustment of Utility Facilities for a Portion of the Carson City Freeway Project, Phase 2A in Fifth St and the Freeway Corridor to adjust the agreement costs to reflect the relocation contractor's bid prices and final construction plans, and extend the required completion date from September 14, 2007 to January 4, 2008.

Explanation for Recommended Board Action: The agreement with NDOT provides for the City to relocate sewer, reclaimed water and water infrastructure in E Fifth Street and the Freeway corridor that are in conflict with improvements proposed in conjunction with the Carson City Freeway and was approved by the Board of Supervisors at it's October 5, 2006 meeting and signed by NDOT on November 28, 2006. Carson City is well underway in completing the extensive sewer, reclaimed water and water relocations in E Fifth St and the Freeway corridor south to the Linear Park Ditch. NDOT delayed the Freeway Phase 2A bid opening to July 19, 2007, which allowed additional time for the City to complete its Utility Relocations. The addendum moves the required completion date for the relocations from September 14, 2007, to January 4, 2007. Since the agreement was being amended to accommodate the revised schedule, the contractor's bid prices and final construction plans were substituted for the engineer's estimate and preliminary plans in the agreement so as to simplify the reimbursement provisions of the agreement.

Applicable Statue, Code, Policy, Rule or Regulation: NRS 408

Fiscal Impact: \$662,541.51 of which \$581,297.98 is reimbursable from NDOT

Explanation of Impact: Impact to the water and sewer capital funds will be increased by the addendum.


Funding Source: 515-0000-434-7998 NDOT By-Pass Replacement (Reimbursable)
515-0000-434-7999 NDOT By-Pass Extension (Non-Reimbursable)
520-3505-435-7893 NDOT By-Pass Non-Reimbursable
520-3505-435-7894 NDOT By-Pass Reimbursable

Alternatives: N/A


Supporting Material: Exhibits available upon request.
Addendum to Agreement No. P417-06-030

Prepared By: Jay Ahrens, PE, Senior Project Manager

Reviewed By:



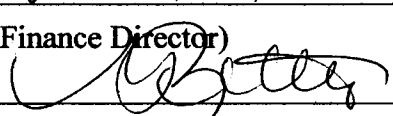
Date: 10/8/07

(City Engineer)



Date: 10-9-07

(Public Works Director)


Date: 10-9-07

(Finance Director)


Date: 10-9-07

(City Manager)


Date: 10-9-07

(District Attorney)

Board Action Taken:

Motion: _____ 1) _____ Aye/Nay
2) _____

(Vote Recorded By)

ADDENDUM NO. 1 TO AGREEMENT NO. P417-06-030
FOR THE ADJUSTMENT OF UTILITY FACILITIES

This Addendum to Agreement No. P417-06-030 entered into this ____ day of _____, 20____, by and between the STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, hereinafter referred to as STATE, and CARSON CITY, a consolidated municipality under Nevada Revised Statutes, whose mailing address is 3505 Butti Way, Carson City, Nevada 89701, hereinafter referred to as CITY, hereby agrees as follows:

WITNESSETH:

WHEREAS, COMPANY and STATE previously entered into Highway Agreement No. P417-06-030 on the 28th day of November, 2006, hereafter referred to as the "Agreement", and by this Addendum desire to amend, modify and expand the scope of the work detailed in said Highway Agreement No. P417-06-030.

WHEREAS, it is the intent and desire of the parties hereto that said Agreement remain in full force and effect except insofar as it is inconsistent with or contradictory to this Addendum.

NOW, THEREFORE, CITY and STATE hereby mutually agree as follows:

1. Paragraph 5 of the Agreement shall be deleted in its entirety and the following text inserted: The total estimated cost for performing these adjustments is SEVEN MILLION SIXTY SEVEN THOUSAND TWO HUNDRED NINE AND 51/100 DOLLARS (\$7,067,209.51) of which, THREE MILLION FIVE HUNDRED NINE THOUSAND SEVEN HUNDRED FIFTY FOUR AND 51/100 DOLLARS (\$3,509,754.51) is eligible for reimbursement. ZERO DOLLARS (\$-0-) is attributable to salvage credits and THREE MILLION FIVE HUNDRED FIFTY SEVEN THOUSAND FOUR HUNDRED FIFTY FOUR AND 49/100 DOLLARS (\$3,557,454.49) is attributable to voluntary betterments and permitted relocations undertaken by CITY. Details of the estimated costs are set forth in said EXHIBIT "E" attached hereto and made a part hereof.

The authorized consultant and CITY employee engineering and City employee construction management costs, hereinafter referred to as Engineering Costs for this portion of Phase 2 (hereinafter referred to as Phase 2A) US-395 utility relocations are estimated and included in EXHIBIT "E" and will be billed in accordance with paragraph seven (7) of the Agreement. As provided for in NAC 408.331, section 3, it is mutually understood that actual engineering costs are so intermingled between Phase 2A and Phase 2B that final Engineering Costs cannot be determined until all Phase 2 relocations are complete and the reimbursable and non reimbursable Engineering Costs are determined on a pro rata basis of the actual construction costs.

2. The portion of paragraph 1 in the Agreement which states, "CITY shall cause the necessary adjustments to be performed in accordance with the drawings attached and referenced hereto as EXHIBIT "B" and made a part hereof" shall be deleted and be replaced with the following text: CITY shall cause the necessary adjustments to be performed in accordance with the drawings attached as Exhibit "F" and made a part hereto.

3. The last line of paragraph 1 in the Agreement which states, "Adjustments shall be completed by September 14, 2007" shall be deleted and replaced with the following text: "Adjustments shall be completed by January 4, 2008".

4. All other terms and provisions of Highway Agreement No. P417-06-030 shall remain in full force and effect.

IN WITNESSETH WHEREOF, the parties hereto have executed this agreement the day and year first above written.

CARSON CITY, a consolidated municipality under Nevada Revised Statutes

REVIEWED AND RECOMMENDED BY:

By: _____
MARV TEIXEIRA, Mayor Date

Heidi A. Mireles, Chief Right-of-Way Agent Date

ATTEST:

STATE OF NEVADA, acting by and through its DEPARTMENT OF TRANSPORTATION

By: _____
ALAN GLOVER, Clerk/Recorder Date

Director Date

APPROVED FOR LEGALITY AND FORM:

APPROVED FOR LEGALITY AND FORM

By: _____
District Attorney Date

Deputy Attorney General Date

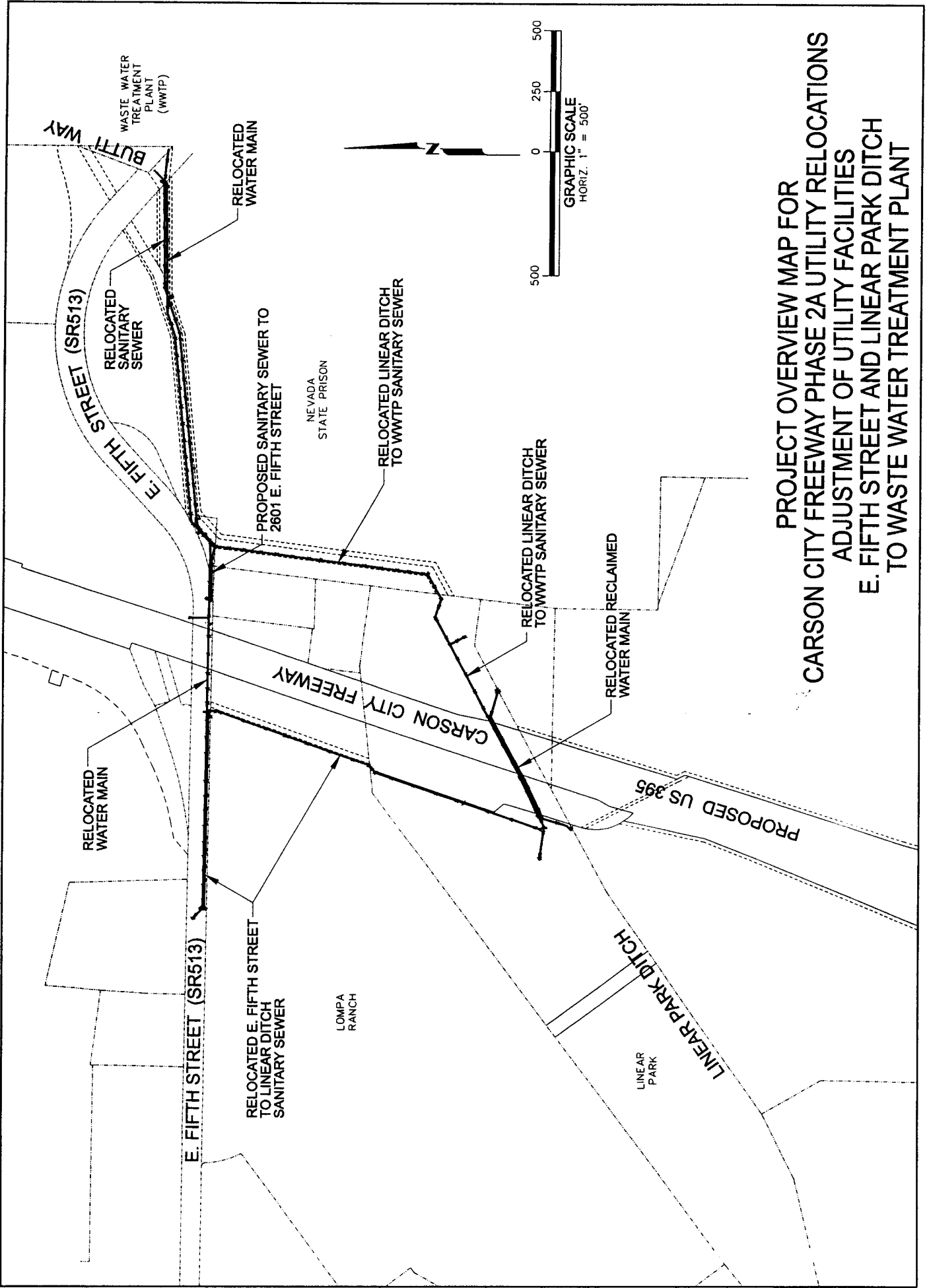
By: _____
ANDREW BURNHAM, Public Works Director Date

STATE OF NEVADA
CARSON CITY

On this _____ day of _____, 20____, personally appeared before me, the undersigned, a Notary Public in and for Carson City, State of Nevada, _____ personally known (or proved) to me to be the _____ Director of the Department of Transportation of the State of Nevada who subscribed to the above instrument for the Nevada Department of Transportation under authorization of Nevada Revised Statutes, Chapter 408.205; that he affirms that the seal affixed to said instrument is the seal of said Department; and that said instrument was executed for the Nevada Department of Transportation freely and voluntarily and for the uses and purposes therein mentioned.

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IN WITNESS WHEREOF I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.



**PROJECT OVERVIEW MAP FOR
CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
ADJUSTMENT OF UTILITY FACILITIES
E. FIFTH STREET AND LINEAR PARK DITCH
TO WASTE WATER TREATMENT PLANT**

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS							
LINEAR DITCH TO WWTP SANITARY SEWER							
BETTERMENT RATIO ESTIMATE OF LINEAR FOOT COST FOR PIPE							
Average Excavation depth		11.6 FEET					
PIPE DIAMETER		9			BETTERMENT SIZE		
		30 INCHES			36 INCHES		
MATERIAL TYPE	UNIT	QUANTITY	UNIT COST	COST	QUANTITY	UNIT COST	COST
Earthwork	CY	4.15	\$ 3.00	\$12.45	4.36	\$ 3.00	\$13.08
Geotextile	SF	18.7	\$ 1.00	\$18.70	20.7	\$ 1.00	\$20.70
Bedding	CY	0.17	\$ 25.00	\$4.25	0.13	\$ 25.00	\$3.25
Stabilized Construction Platform	CY	0.26	\$ 35.00	\$9.10	0.29	\$ 35.00	\$10.15
Pipe	LF	1	\$ 84.69	\$84.69	1	\$ 121.23	\$121.23
Locator Wire	LF	1	\$ 1.00	\$1.00	1	\$ 1.00	\$1.00
Warning Tape	LF	1	\$ 1.50	\$1.50	1	\$ 1.50	\$1.50
Backfill	CY	2.15	\$ 25.00	\$53.75	2.14	\$ 25.00	\$53.50
BASE UNIT COSTS	LF			\$185.44			\$224.41
ESTIMATED ALLOWCATIONS BASED ON UNIT LF COST OF PIPE							
Percent Cost Increase for REPLACEMENT vs. BETTERMENT Pipe Size							21.01%
Carson City LF Costs for BETTERMENT						\$	38.97
Carson City BETTERMENT Cost factor for based on LF Cost							17.37%
NDOT REPLACEMENT Cost based per LF						\$	185.43

Notes:

Calculations are based on cut back slopes for excavation. It is assumed that sheeting and shoring or trench box construction would be a contractor preference and not influence the pipe installation cost comparison. This also does not include a section o

Base Unit Costs does not include additional factored costs for replacement of pavement over portions of the line, dewatering during construction, and traffic control which are items that were estimated separately and distributed uniformly in the Engineer's Estimate of Probable Construction Costs. These cost would tend to reduce the differential between the pipe linear foot costs.

For perspective, the additional cost items not included are estimated approximately as: Traffic Control \$20000, Pavement removal and replacement \$25000, dewatering of excavation \$200,000. The equivalent LF cost allocated to the 36" PVC Sewer was \$75 per LF.

Cost of PVC Gravity Sewer Pipe Obtained from Diamond Plastics Corp website. See attached List Price. 7/14/2005 Prices were verified with a sales representative. 30" PVC is made in Nevada. 36" is made in Nebraska.

LF = Linear Foot, CY = Cubic Yard

Yellow cells are variables that can be changed to reflect assumptions on pricing.

Average Excavation Depth for Linear Ditch to WWTP 36" Sanitary Sewer to Calculate Betterment Cost Ratio					
Station	Length between STA.	Depth to invert	Excavation Depth	Average Excavation Depth per Length	Factored Depth
10+35.00	52	9.5	11.5	12.3	0.175
10+87.00	175	11	13	13.0	0.624
12+62.00	283	11	13	12.8	0.994
15+45.00	30	10.5	12.5	12.0	0.099
15+75.00	298	9.5	11.5	11.5	0.94
18+73.00	128	9.5	11.5	11.5	0.404
20+01.00	56	9.5	11.5	10.8	0.166
20+57.00	118	8	10	10.1	0.327
21+75.00	435	8.2	10.2	11.1	1.325
40+94.00	423	10	12	12.4	1.439
45+17.00	250	10.8	12.8	12.8	0.878
47+67.00	96	10.8	12.8	12.6	0.332
48+63.00	309	10.3	12.3	11.9	1.009
51+72.00	384	9.5	11.5	11.1	1.169
55+56.00	191	8.7	10.7	11.4	0.597
7+53.00	417	10	12	10.0	1.144
11+70.00		6	8		0
Totals	3645 Sewer Length		Average Excavation Depth per Length	11.6	
2	feet additional excavation beyond invert fo bedding base and SCM.				

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS

CONSTRUCTION PACKAGES AND ELEMENTS	ESTIMATE OF PROBABLE CONSTRUCTION COST								
	CARSON CITY COSTS			NDOT REIMBURSEMENT			CONTRACT TOTAL		
	SEWER	WATER	TOTAL	SEWER	WATER	TOTAL	SEWER	WATER	TOTAL
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS									
SCHEDULE A.1 LINEAR DITCH TO WASTE WATER TREATMENT PLANT SANITARY SEWER	\$ 411,766.49	\$ -	\$ 411,766.49	\$ 1,954,707.51	\$ -	\$ 1,954,707.51	\$ 2,366,474.00	\$ -	\$ 2,366,474.00
SCHEDULE A.2 LINEAR DITCH RECLAIMED WATER MAIN	\$ -	\$ -	\$ -	\$ 561,542.00	\$ -	\$ 561,542.00	\$ 561,542.00	\$ -	\$ 561,542.00
SCHEDULE B.1 E. FIFTH STREET WEST OF FREEWAY AND E. FIFTH STREET TO LINEAR DITCH SANITARY SEWER	\$ 722,214.89	\$ -	\$ 722,214.89	\$ -	\$ -	\$ -	\$ 722,214.89	\$ -	\$ 722,214.89
SCHEDULE B.2 SANITARY SERVICE TO 2601 E. FIFTH STREET	\$ 55,984.11	\$ -	\$ 55,984.11	\$ -	\$ -	\$ -	\$ 55,984.11	\$ -	\$ 55,984.11
SCHEDULE C FREEWAY IRRIGATION SERVICE STUBS	\$ -	\$ -	\$ -	\$ -	\$ 16,300.00	\$ 16,300.00	\$ -	\$ 16,300.00	\$ 16,300.00
SCHEDULE D E. FIFTH STREET WATER MAIN	\$ -	\$ 1,353,956.00	\$ 1,353,956.00	\$ -	\$ -	\$ -	\$ -	\$ 1,353,956.00	\$ 1,353,956.00
SCHEDULE E E. FIFTH STREET AT&I COMMUNICATION DUCTS	\$ -	\$ 31,500.00	\$ 31,500.00	\$ -	\$ -	\$ -	\$ -	\$ 31,500.00	\$ 31,500.00
CONTRACT TOTALS	\$ 1,189,965.49	\$ 1,385,456.00	\$ 2,575,421.49	\$ 2,516,249.51	\$ 16,300.00	\$ 2,532,549.51	\$ 3,706,215.00	\$ 1,401,756.00	\$ 5,107,971.00

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CONSTRUCTION PACKAGES AND ELEMENTS	ESTIMATE OF TOTAL PROJECT COSTS								
	CARSON CITY COSTS			NDOT REIMBURSEMENT			PROJECT TOTAL		
	SEWER	WATER	TOTAL	SEWER	WATER	TOTAL	SEWER	WATER	TOTAL
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS									
SCHEDULE A.1 LINEAR DITCH TO WASTE WATER TREATMENT PLANT SANITARY SEWER	\$ 571,399.49	\$ -	\$ 571,399.49	\$ 2,712,512.51	\$ -	\$ 2,712,512.51	\$ 3,283,912.00	\$ -	\$ 3,283,912.00
SCHEDULE A.2 LINEAR DITCH RECLAIMED WATER MAIN	\$ -	\$ -	\$ -	\$ 774,542.00	\$ -	\$ 774,542.00	\$ 774,542.00	\$ -	\$ 774,542.00
SCHEDULE B.1 E. FIFTH STREET WEST OF FREEWAY AND E. FIFTH STREET TO LINEAR DITCH SANITARY SEWER	\$ 996,814.89	\$ -	\$ 996,814.89	\$ -	\$ -	\$ -	\$ 996,814.89	\$ -	\$ 996,814.89
SCHEDULE B.2 SANITARY SERVICE TO 2601 E. FIFTH STREET	\$ 77,784.11	\$ -	\$ 77,784.11	\$ -	\$ -	\$ -	\$ 77,784.11	\$ -	\$ 77,784.11
SCHEDULE C FREEWAY IRRIGATION SERVICE STUBS	\$ -	\$ -	\$ -	\$ -	\$ 22,700.00	\$ 22,700.00	\$ -	\$ 22,700.00	\$ 22,700.00
SCHEDULE D E. FIFTH STREET WATER MAIN	\$ -	\$ 1,868,256.00	\$ 1,868,256.00	\$ -	\$ -	\$ -	\$ -	\$ 1,868,256.00	\$ 1,868,256.00
SCHEDULE E E. FIFTH STREET AT&I COMMUNICATION DUCTS	\$ -	\$ 43,200.00	\$ 43,200.00	\$ -	\$ -	\$ -	\$ -	\$ 43,200.00	\$ 43,200.00
PROJECT TOTALS	\$ 1,645,998.49	\$ 1,911,456.00	\$ 3,557,454.49	\$ 3,487,054.51	\$ 22,700.00	\$ 3,509,754.51	\$ 5,133,053.00	\$ 1,934,156.00	\$ 7,067,209.00

CARSON CITY FREIGHTY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE A1
LINEAR DITCH TO WASTE WATER TREATMENT PLANT SANITARY SEWER
 STATE OF PROBABLE CONSTRUCTION COST AND REBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST
 SANITARY SEWER CONSTRUCTION BETWEEN T&T 26+73 TO T&T 44+81 EXCEPT SANITARY SEWERS TO 2601 E. FIFTH ST. AND T&T 47+33 TO T&T 62+10, SANITARY SEWER ABANDONMENT FROM T&T 227+12 TO T&T 247+26 (27 INCH), T&T 231+35 TO T&T 237+12 (24 INCH), T&T 237+12 TO T&T 277+00 (10 INCH), AND T&T 47+28 TO T&T 61+49.
 PLAN SHEETS 75-14E AND 23E-2E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	Total Price	CARSON CITY BETTERMENT		NDOOT PARTICIPATING		SURE	TOTAL COST
					SCHEDULED VALUE	TOTAL COST	SCHEDULED VALUE	TOTAL COST		
BP 1 Mobilization/demobilization and Cleanup, this item is specifically for Wkg in Schedule A-1 (SP 1.2.1)	1	LS	\$35,000.00	\$35,000.00	0.174	\$6,090.00	0.826	\$28,910.00	\$35,000.00	\$35,000.00
BP 2 Concentric Flat Top 60 inch Epoxy Lined Precast Sanitary Sewer Manhole (SP 1.2.3)	2	EA	\$25,000.00	\$50,000.00	0.348	\$8,700.00	1.652	\$41,300.00	\$50,000.00	\$50,000.00
BP 3 Concentric Flat Top 72 inch Epoxy Lined Precast Sanitary Sewer Manhole (SP 1.2.4)	16	EA	\$19,000.00	\$304,000.00	2.784	\$52,896.00	13.216	\$251,104.00	\$304,000.00	\$304,000.00
BP 4 Special Junction Chamber, Epoxy Lined (SP 1.2.5)	2	EA	\$51,000.00	\$102,000.00	0.348	\$17,748.00	1.652	\$84,252.00	\$102,000.00	\$102,000.00
BP 5 60 inch Special Drop Manhole, Epoxy Lined (SP 1.2.6)	2	EA	\$22,000.00	\$44,000.00	0.348	\$7,656.00	1.652	\$36,344.00	\$44,000.00	\$44,000.00
BP 6 6 inch PVC SDR35 Sanitary Sewer Lateral in C-9.0 Trench (SP 1.2.7)	15	LF	\$358.00	\$5,370.00	2.610	\$934.38	12.390	\$4,435.62	\$5,370.00	\$5,370.00
BP 7 8 inch PVC SDR35 Sanitary Sewer Main in C-9.0 Trench (SP 1.2.8)	20	LF	\$270.00	\$5,400.00	3.480	\$939.60	16.520	\$4,460.40	\$5,400.00	\$5,400.00
BP 8 10 inch PVC SDR35 Sanitary Sewer Main in NDOT Trench (SP 1.2.10)	10	LF	\$515.00	\$5,150.00	1.740	\$896.10	8.260	\$4,253.90	\$5,150.00	\$5,150.00
BP 9 18 inch PVC ASTM F679, PS46, Sanitary Sewer Main C-9.0 in Trench (SP 1.2.11)	11	LF	\$620.00	\$6,820.00	1.914	\$1,186.68	9.086	\$5,633.32	\$6,820.00	\$6,820.00
BP 10 18 inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.12)	15	LF	\$525.00	\$7,875.00	2.610	\$1,370.25	12.390	\$6,504.75	\$7,875.00	\$7,875.00
BP 11 24 inch PVC ASTM F679, PS46, Sanitary Sewer Main in C-9.0 Trench (SP 1.2.13)	132	LF	\$125.00	\$16,500.00	22.968	\$2,871.00	109.032	\$13,629.00	\$16,500.00	\$16,500.00
BP 12 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in C-9.0 Trench (SP 1.2.15)	52	LF	\$219.00	\$11,388.00	9.048	\$1,961.51	42.952	\$9,406.49	\$11,388.00	\$11,388.00
BP 13 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in C-9.0 Trench (SP 1.2.15)	1010	LF	\$190.00	\$191,900.00	175.740	\$33,390.60	834.260	\$158,509.40	\$191,900.00	\$191,900.00
BP 14 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in C-9.0 Trench (SP 1.2.15)	1367	LF	\$300.00	\$410,100.00	237.858	\$71,357.40	1129.142	\$338,742.60	\$410,100.00	\$410,100.00
BP 15 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.16)	537	LF	\$190.00	\$102,030.00	93.438	\$17,753.22	443.562	\$84,276.78	\$102,030.00	\$102,030.00
BP 16 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.16)	121	LF	\$190.00	\$22,990.00	21.054	\$4,000.26	99.946	\$18,989.74	\$22,990.00	\$22,990.00
BP 17 36 inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.16)	142	LF	\$210.00	\$29,820.00	24.708	\$5,188.68	117.292	\$24,631.32	\$29,820.00	\$29,820.00
BP 18 36 inch PVC C905 with restrained Johns Sanitary Sewer Main in NDOT Trench (SP 1.2.17)	281	LF	\$334.00	\$93,854.00	48.894	\$16,330.60	232.106	\$77,523.40	\$93,854.00	\$93,854.00
BP 19 22 inch x 34 inch Horizontal Elliptical Reinforced Concrete Pipe Class IV Sewer Main with Cured in Place Lining in NDOT Trench (SP 1.2.18)	370	LF	\$519.00	\$192,030.00	64.380	\$33,413.22	305.620	\$158,616.78	\$192,030.00	\$192,030.00
BP 20 24 inch DIP (Pressure Class 250) Reclaimed Water Line in C-9.0 Trench (SP 1.2.19)	24	LF	\$1,300.00	\$31,200.00	4.176	\$5,428.80	19.824	\$25,771.20	\$31,200.00	\$31,200.00
BP 21 Concentric Type 1 48 inch Precast Sanitary Sewer Manhole, Epoxy Lined (SP 1.2.2A)	1	EA	\$8,500.00	\$8,500.00	0.174	\$1,479.00	0.826	\$7,021.00	\$8,500.00	\$8,500.00
BP 22 24 inch Gate Valve for Reclaimed Water Main (SP 1.2.21)	1	EA	\$19,800.00	\$19,800.00	0.174	\$3,445.20	0.826	\$16,354.80	\$19,800.00	\$19,800.00
BP 23 Reclaimed Water Air/Vacuum Release Valve Complete (SP 1.2.22)	1	EA	\$4,300.00	\$4,300.00	0.174	\$748.20	0.826	\$3,551.80	\$4,300.00	\$4,300.00

CARSON CITY FREIGHTY PHASE EXISTING RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE A.1

LINEAR DITCH TO WASTE WATER TREATMENT PLANT SANITARY SEWER

ESTIMATE OF PROBABLE CONSTRUCTION COST AND REBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

SANITARY SEWER CONSTRUCTION BETWEEN 7527 26+73 TO 7527 44+81 EXCEPT 8' SANITARY SEWER TO 2601 E. FIFTH ST. AND 7527 47+33 TO 7527 63+10, SANITARY SEWER ABANDONMENT FROM 7027 227+12 TO 7027 247+26 (27 INCH), 7027 231+35 TO 7027 237+12 (27 INCH), 7027 237+12 TO 7027 277+08 (10 INCH), AND 7527 47+48 TO 7527 51+48.
PLAN SHEETS 75-14E AND 25E-2E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	Total Price	CARSON CITY BETTERMENT		NDOT PARTICIPATING		SUM	TOTAL COST
					17.4%		82.6%			
					SCHEDULED VALUE	TOTAL COST	SCHEDULED VALUE	TOTAL COST		
✓ BP 24 Epoxy Coated 1/2 inch Plate Steel Casting, 54 inch DIA. (SP 1.2.23)	257	LF	\$720.00	\$185,040.00	44.718	\$32,196.96	212.282	\$152,843.04	\$185,040.00	\$185,040.00
✓ BP 25 Permanent Maintenance Access Road (SP 1.2.24)	2233	LF	\$13.00	\$29,029.00	388.542	\$5,051.05	1844.458	\$23,977.95	\$29,029.00	\$29,029.00
✓ BP 26 4 inch Concrete Slurry Encasement (36 inch DIA. Pipe) (SP 1.2.25)	133	LF	\$51.00	\$6,783.00	23.142	\$1,180.24	108.858	\$5,602.76	\$6,783.00	\$6,783.00
✓ BP 27 Concrete Slurry Protective Cap (36 inch Pipe Trench) (SP 1.2.26)	40	LF	\$36.00	\$1,440.00	6.980	\$250.56	33.040	\$1,189.44	\$1,440.00	\$1,440.00
✓ BP 28 Cut-Off Collar (36 inch DIA. Pipe) (SP 1.2.27)	12	EA	\$630.00	\$7,560.00	2.088	\$1,315.44	9.912	\$6,244.56	\$7,560.00	\$7,560.00
✓ BP 29 Cathodic Protective System Complete (SP 1.2.28)	1	LS	\$11,500.00	\$11,500.00	0.174	\$2,001.00	0.826	\$9,499.00	\$11,500.00	\$11,500.00
✓ BP 30 Temporary Construction Fence (SP 1.2.29)	5240	LF	\$7.80	\$40,872.00	911.760	\$7,111.73	4328.240	\$33,760.27	\$40,872.00	\$40,872.00
✓ BP 31 36 inch Cap and Bulkhead (SP 1.2.30)	1	LS	\$6,600.00	\$6,600.00	0.174	\$1,148.40	0.826	\$5,451.60	\$6,600.00	\$6,600.00
✓ BP 32 16 inch PVC C905 DR 26, PR 165 Water Main Repair in NDOT Trench (SP 1.2.31)	47	LF	\$305.00	\$14,335.00	8.178	\$2,494.29	38.822	\$11,840.71	\$14,335.00	\$14,335.00
✓ BP 33 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (6 inch PVC)	923	LF	\$9.00	\$8,307.00	160.602	\$1,445.42	762.398	\$6,861.58	\$8,307.00	\$8,307.00
✓ BP 34 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (8 inch PVC)	125	LF	\$34.00	\$4,250.00	21.750	\$739.50	103.250	\$3,510.50	\$4,250.00	\$4,250.00
✓ BP 35 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (27 inch Concrete)	1397	LF	\$41.00	\$57,277.00	243.078	\$9,966.20	1153.922	\$47,310.80	\$57,277.00	\$57,277.00
✓ BP 36 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (30 inch Concrete)	1452	LF	\$33.00	\$47,916.00	252.648	\$8,337.38	1199.352	\$39,578.62	\$47,916.00	\$47,916.00
✓ BP 37 Selective Removal of Pipe (SP 1.2.34) (24" M/LMC Steel)	29	LF	\$93.00	\$2,697.00	5.046	\$469.28	23.954	\$2,227.72	\$2,697.00	\$2,697.00
✓ BP 38 Abandon Manhole (SP 1.2.35)	7	EA	\$2,000.00	\$14,000.00	1.218	\$2,436.00	5.782	\$11,564.00	\$14,000.00	\$14,000.00
✓ BP 39 Sewer Manhole Vents with enclosures (SP 1.2.36)	14	EA	\$2,580.00	\$36,120.00	2.436	\$6,284.88	11.564	\$29,835.12	\$36,120.00	\$36,120.00
✓ BP 40 Pavement Patch (SP 1.2.37) (E. Fifth Street)	55	LF	\$70.00	\$3,850.00	9.570	\$689.90	45.430	\$3,160.10	\$3,850.00	\$3,850.00
✓ BP 41 Pavement Patch (SP 1.2.37) (NSP Parking Lot FSI* 48+75 to FSI* 50+85)	360	LF	\$117.00	\$42,120.00	62.640	\$7,328.88	297.360	\$34,791.12	\$42,120.00	\$42,120.00
✓ BP 42 Pavement Patch (SP 1.2.37) (NSP Perimeter Access Road FSI* 50+85 to FSI* 56+30)	207	LF	\$121.00	\$25,047.00	36.018	\$4,358.18	170.982	\$20,688.82	\$25,047.00	\$25,047.00
✓ BP 43 Relocation of Propane Tank and Protective Containment (SP 1.2.38)	1	LS	\$2,180.00	\$2,180.00	0.174	\$379.32	0.826	\$1,800.68	\$2,180.00	\$2,180.00
✓ BP 44 Relocation of Existing Storage Shed (SP 1.2.39)	1	LS	\$2,180.00	\$2,180.00	0.174	\$379.32	0.826	\$1,800.68	\$2,180.00	\$2,180.00
✓ BP 45 Subgrade Stabilization (SP 1.2.39) (24inch Pipe)	125	LF	\$32.00	\$4,000.00	21.750	\$696.00	103.250	\$3,304.00	\$4,000.00	\$4,000.00
✓ BP 46 Subgrade Stabilization (SP 1.2.39) (36 inch Pipe)	3542	LF	\$32.00	\$113,344.00	616.308	\$19,721.86	2925.692	\$93,622.14	\$113,344.00	\$113,344.00
ESTIMATE OF PROBABLE CONSTRUCTION COST				\$2,366,474.00	SUBTOTAL		\$2,366,474.00	TOTAL		\$2,366,474.00
TOTAL				\$411,766.48	CARSON CITY		\$411,766.48	TOTAL NDOT COSTS:		\$1,954,707.51

The Local Builder Group, Inc.
7700 S. Durango Blvd., Suite 100
Carson City, NV 89401

21366474

**CARSON CITY HIGHWAY PHASE 2 UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE A.1
LINEAR DITCH TO WASTE WATER TREATMENT PLANT SANITARY SEWER**

ESTIMATE OF PROBABLE CONSTRUCTION COST AND RESPONSIBLE PROJECT COSTS WITH CONTRACTORS AND UNIT COST
SANITARY SEWER CONSTRUCTION BETWEEN 742' 24.72 TO 742' 44.41 EXCEPT SANITARY SEWER TO 2601 E. FIFTH ST. AND 742' 47.42 TO 742' 64.14 SANITARY SEWER ARRANGEMENT FROM 742' 27.42 TO 742' 347.26 (27 RCH), 742' 251.42 TO 742' 237.12 (27 RCH), 742' 237.12 TO 742' 217.04 (18 RCH), AND 742' 47.42 TO 742' 61.44.
PLAN SHEETS 75-142 AND 256-242

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	Total Price	CARSON CITY PARTICIPATING		NDOT PARTICIPATING		SUM	TOTAL COST
					SCHEDULED VALUE	TOTAL COST	SCHEDULED VALUE	TOTAL COST		
					CARSON CITY 17.7%		NDOT 82.3%			
										TOTAL COST

CARSON CITY	17.7%
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NDOT	82.3%
------	-------

TOTAL PERCENT	100.0%
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PERCENT OF ESTIMATED CONSTRUCTION CONTRACT COSTS BY AGENCY

NOTES: CONTINGENCY DURING CONSTRUCTION Contingency is based on Carson City experience with utility contracts. This value is the Estimate of Probable Contingency Cost - Percent and funded up to the nearest \$100.

TOTAL CONSTRUCTION COST Total construction costs. This is the sum of the Estimate of Probable Construction Costs and Contingency During Construction.
UTILITY COSTS 84PC Private Parking Lot Pole Relocations
CONSTRUCTION MANAGEMENT Construction Management is the costs associated inspection, supervision, and engineering required in the field.

CONSTRUCTION PROJECT TOTAL COSTS	PERCENT	CARSON CITY	NDOT	TOTAL COST
PROJECT DESIGN ENGINEERING Double engineering cost is based on the division of the preliminary engineering contract by Carson City and as needed by estimated construction costs.	17%	\$70,000.00	\$322,300.00	\$402,300.00
ESTIMATED REAL ESTATE AND EASEMENT COSTS Cost of State Lands Elements		\$2,300.00	\$16,836.00	\$19,136.00
TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT		\$72,300.00	\$339,136.00	\$411,436.00

ACTUAL COST TO BE DETERMINED

**CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE A.2
LINEAR DITCH RECLAIMED WATER MAIN**

ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

RECLAIMED WATER MAIN RELOCATION BETWEEN INCLUDING ABANDONMENT "FS2" 27+20 TO "FS2" 33+68

PLAN SHEETS 15E-16E AND 25E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
✓ BP.47 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule A-2 (SP 1.2.1)	1	LS	\$15,000.00	\$15,000.00
✓ BP.48 24 inch DIP (Pressure Class 250) Reclaimed Water Main with Joint Restraints in C-9.0 Trench (SP.1.2.19)	139	LF	\$300.00	\$41,700.00
✓ BP.49 24 inch DIP (Pressure Class 250) Reclaimed Water Main with Joint Restraints in NDOT Trench (SP1.2.20)	563	LF	\$190.00	\$106,970.00
✓ BP.50 24 inch Gate Valve for Reclaimed Water Main (SP 1.2.21)	2	EA	\$20,000.00	\$40,000.00
✓ BP.51 Reclaimed Water Air/Vacuum Release Assembly Complete (SP1.2.22)	1	EA	\$4,150.00	\$4,150.00
✓ BP.52 Epoxy Coated 1/2 inch Plate Steel Casing (SP1.2.23) (42 inch DIA.)	434	LF	\$620.00	\$269,080.00
✓ BP.53 Cathodic Protection System Complete (SP 1.2.28)	1	LS	\$18,000.00	\$18,000.00
✓ BP.54 Cut, Plug and Slurry Fill Reclaimed Water Main (SP1.2.33) (24 inch)	597	LF	\$74.00	\$44,178.00
✓ BP.55 Subgrade Stabilization (SP 1.2.39) (24" Pipe)	702	LF	\$32.00	\$22,464.00
ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$581,542.00

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

CONTINGENCY Construction Contingency is based on Carson City experience with utility contracts. This value is DURING the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest CONSTRUCTION \$100. 10% \$56,200.00

TOTAL CONSTRUCTION COST Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction. \$617,742.00

CONSTRUCTION MANAGEMENT Construction Management is the costs associated with contracted inspection, testing, supervision, and engineering services required in the field. Rounded to the nearest \$100. 10% \$61,800.00

CONSTRUCTION PROJECT TOTAL COSTS \$679,542.00

PROJECT ENGINEERING Engineering cost is based contracted and estimated engineering evaluation and design services DESIGN and City In-house estimated coordination, design, and construction administration expenses for ENGINEERING the project. Rounded to the nearest \$1000. 17% \$95,000.00

ESTIMATED REAL ESTATE AND EASEMENT COSTS NONE

TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT \$774,542.00

**CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE B.1**

NON-REIMBURSABLE

E FIFTH STREET WEST OF FREEWAY AND E. FIFTH STREET TO LINEAR DITCH SANITARY SEWER

ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL SANITARY SEWER CONSTRUCTION FROM "OA1" 73+71 TO "OA1" 82+26 AND "FS2" 9+34 TO "FS2" 24+80, AND SEWER ABANDONMENT IN E. FIFTH STREET RIGHT OF WAY FROM "OA1" 73+71 TO "OA1" 90+03

PLAN SHEETS 3W-4W, 4E-6E, AND 22E-23E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
BP.56 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule B (SP 1.2.1)	Prorated	LS	\$ 13,920.89	\$13,920.89
✓ BP.57 Concentric Flat Top 60 Inch Epoxy Lined Precast Sanitary Sewer Manhole (SP1.2.3)	5	EA	\$15,500.00	\$77,500.00
✓ BP.58 Concentric Flat Top 72 Inch Epoxy Lined Precast Sanitary Sewer Manhole (SP 1.2.4)	5	EA	\$28,000.00	\$140,000.00
✓ BP.59 24 Inch PVC ASTM F679, PS46, Sanitary Sewer Main in C-9.0 Trench (SP 1.2.13)	751	LF	\$120.00	\$90,120.00
✓ BP.60 24 Inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.14) ("OA1" 73+71 to "OA1" 74+14)	65	LF	\$125.00	\$8,125.00
✓ BP.61 24 Inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.14) ("OA1" 74+14 to "OA1" 82+26, 60'RT)	839	LF	\$110.00	\$92,290.00
✓ BP.62 24 Inch PVC ASTM F679, PS46, Sanitary Sewer Main in NDOT Trench (SP 1.2.14) ("FS2" 10+58 to "FS2" 17+32)	665	LF	\$110.00	\$73,150.00
✓ BP.63 Permanent Maintenance Access Road (SP 1.2.24)	1451	LF	\$13.00	\$18,863.00
✓ BP.64 Concrete Slurry Protective Cap (SP 1.2.26)(24 Inch Pipe Trench)	1568	LF	\$17.00	\$26,656.00
✓ BP.65 Cut-Off Collar (SP 1.2.27)	6	EA	\$690.00	\$4,140.00
✓ BP.66 Temporary Construction Fence (SP 1.2.29)	1330	LF	\$7.80	\$10,374.00
✓ BP.67 Selective Stump Grinding (SP 1.2.32)	7	EA	\$500.00	\$3,500.00
★ BP.68 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (27 Inch Sewer)	1574	LF	\$39.00	\$61,386.00
★ BP.69 Abandon Manhole (SP 1.2.35)	4	EA	\$2,000.00	\$8,000.00
✓ BP.70 Sewer Manhole Vents with enclosures (SP 1.2.36)	7	EA	\$2,500.00	\$17,500.00
✓ BP.71 Pavement Patch (SP 1.2.37) (E. Fifth Street)	35	LF	\$70.00	\$2,450.00
✓ BP.72 Subgrade Stabilization (SP 1.2.40) (24 inch Pipe)	2320	LF	\$32.00	\$74,240.00
ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$722,214.89

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

Mobilization for all Schedule B work was included in the bid as "BP.56 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule B (SP 1.2.1)". Mobilization for this MOBILIZATION schedule was prorated based on the total value of this schedule (\$708,294.00) versus the total value of all Schedule B work (\$708,294.00+ \$54,905.00= \$763,199.00). This percent was calculated as 92.8% of the Bid Proposal \$15,000.00 for item BP.56.

CONTINGENCY Construction Contingency is based on Carson City experience with utility contracts. This value is DURING the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest CONSTRUCTION \$100. 10% \$72,200.00

TOTAL CONSTRUCTION COST Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction. \$794,414.89

CONSTRUCTION MANAGEMENT Construction Management is the costs associated with contracted inspection, testing, supervision, MANAGEMENT and engineering services required in the field. Rounded to the nearest \$100. 10% \$79,400.00

CONSTRUCTION PROJECT TOTAL COSTS \$873,814.89

PROJECT ENGINEERING cost is based contracted and estimated engineering evaluation and design services and DESIGN City in-house estimated coordination, design, and construction administration expenses for the ENGINEERING project. Rounded to the nearest \$1000. 17% \$123,000.00

ESTIMATED REAL ESTATE AND EASEMENT COSTS None \$0.00

TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT \$996,814.89

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE B.2
SANITARY SERVICE TO 2601 E FIFTH STREET
 ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL WORK ASSOCIATED WITH THE 8" SANITARY SEWER CONSTRUCTION BETWEEN "FS1" 44+41 AND "FS1" 47+12

PLAN SHEET 3E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
✓ Prorated BP.56 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule B (SP 1.2.1)	Prorated	LS	\$ 1,079.11	\$1,079.11
BP.73 Concentric Type 1, 48 Inch Precast Sanitary Sewer Manhole (SP 1.2.2)	1	EA	\$6,800.00	\$6,800.00
✓ BP.74 6 Inch PVC SDR35 Sanitary Sewer Lateral Connection (SP 1.2.8)	1	EA	\$4,800.00	\$4,800.00
✓ BP.75 8 Inch PVC SDR35 Sanitary Sewer Main with NDOT Trench (SP 1.2.9)	280	LF	\$91.00	\$25,480.00
✓ BP.76 Concrete Slurry Encasement of Sewer Line (SP 1.2.25) (8 Inch DIA)	45	LF	\$115.00	\$5,175.00
✓ BP.77 Cut, Plug and Slurry Fill Sewer Main (SP 1.2.33) (6 Inch DIA.)	55	LF	\$70.00	\$3,850.00
✓ BP.78 Subgrade Stabilizations (SP 1.2.39)(8 Inch Pipe)	275	LF	\$32.00	\$8,800.00
ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$55,984.11

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

MOBILIZATION Mobilization for all Schedule B work was included in the bid as "BP.56 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule B (SP 1.2.1)". Mobilization for this schedule was prorated based on the total value of this schedule (\$55,984.00) versus the total value of all Schedule B work (\$708,2945.00+ \$54,905.00= \$763,199.00.) This value prorated by subtracting the value prorated to Schedule B.1 from the total of item BP.56.

CONSTRUCTION DURING CONSTRUCTION Construction Contingency is based on Carson City experience with utility contracts. This value is based on the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest \$100. 10% \$5,600.00

TOTAL CONSTRUCTION COST Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction. \$61,584.11

CONSTRUCTION MANAGEMENT Construction Management is the costs associated with contracted inspection, testing, supervision, and engineering services required in the field. Rounded to the nearest \$100. 10% \$6,200.00

CONSTRUCTION PROJECT TOTAL COSTS \$67,784.11

PROJECT DESIGN AND ENGINEERING Engineering cost is based contracted and estimated engineering evaluation and design services and City in-house estimated coordination, design, and construction administration expenses for the project. Rounded to the nearest \$1000. 17% \$10,000.00

ESTIMATED REAL ESTATE AND EASEMENT COSTS NONE \$0.00

TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT \$77,784.11

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE C
FREEWAY IRRIGATION SERVICE STUBS
 ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL WORK ASSOCIATED WITH THE IRRIGATION SERVICE AT "FS1"44+70

PLAN SHEET 17E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
✓ BP.79 Mobilization/demobilization and Cleanup, this item is specifically for Work in Schedule C (SP 1.3.1)	1	LS	\$5,000.00	\$5,000.00
✓ BP.80 6 Inch Gate Valve (SP 1.3.9)	1	EA	\$1,250.00	\$1,250.00
✓ BP.81 6 Inch PVC C900 CL 150 DR 18 Water line with Permanent Flush Assembly (SP 1.3.14)	1	LS	\$7,500.00	\$7,500.00
✓ BP.82 Pavement Patch (SP 1.2.37) (E. Fifth Street)	24	LF	\$70.00	\$1,680.00
✓ BP.83 Subgrade Stabilization (SP 1.2.39) (6 Inch Pipe)	30	LF	\$29.00	\$870.00
ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$16,300.00

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

<p>CONTINGENCY CONSTRUCTION COST</p> <p>Construction Contingency is based on Carson City experience with utility contracts. This value is DURING the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest \$100.</p>	<p>10%</p>	<p>\$1,600.00</p>
<p>TOTAL CONSTRUCTION COST</p> <p>Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction.</p>		<p>\$17,900.00</p>
<p>CONSTRUCTION MANAGEMENT COSTS</p> <p>Construction Management is the costs associated with contracted inspection, testing, supervision, and engineering services required in the field. Rounded to the nearest \$100.</p>	<p>10%</p>	<p>\$1,800.00</p>
<p>PROJECT TOTAL COSTS</p> <p>Engineering cost is based contracted and estimated engineering evaluation and design services DESIGN and City in-house estimated coordination, design, and construction administration expenses for ENGINEERING the project. Rounded to the nearest \$1000.</p>	<p>17%</p>	<p>\$3,000.00</p>
<p>REAL ESTATE AND EASEMENT COSTS</p> <p>NONE</p>		<p>\$0.00</p>
<p>TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT</p>		<p>\$22,700.00</p>

**CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE D
E. FIFTH STREET WATER MAIN**

ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL WATER MAIN CONSTRUCTION FROM "OA1" 73+50 TO "FS1" 62+23 EXCEPT FREEWAY IRRIGATION SERVICE AT "FS1" 44+70, AND WATER MAIN ABANDONMENT FROM "OA1" 74+14 TO "OA1" 106+73.

PLAN SHEETS 5W-6W, 17E-21E, AND 22E-24E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
BP.84 Mobilization/ demobilization and Cleanup, this item is specifically for Work in Schedule D (SP 1.3.1)	1	LS	\$15,000.00	\$15,000.00
BP.85 12 Inch (Pressure Class 150) Temporary Water Line (SP 1.3.2)	1	LS	\$32,000.00	\$32,000.00
BP.86 18 Inch PVC C905 DR 25, PR165 Water Main with C-9.0 Trench (SP 1.3.3) ("FS1" 48+34 to "FS1" 61+63)	1337	LF	\$75.00	\$100,275.00
BP.87 18 Inch PVC C905 DR 25, PR165 Water Main with NDOT Trench (SP 1.3.4) ("OA1" 85+80 to "FS2" 45+94)	247	LF	\$88.00	\$21,736.00
BP.88 18 Inch PVC C905 DR 25, PR165 Water Main with NDOT Trench (SP 1.3.4) ("FS1" 48+98 to "FS1" 48+34)	140	LF	\$134.00	\$18,760.00
BP.89 18 Inch PVC C905 DR 25, PR165 Water Main with Joint Restraints with NDOT Trench (SP 1.3.5) ("FS1" 45+94 to "FS1" 46+98)	109	LF	\$180.00	\$19,620.00
BP.90 18 Inch DIP (Pressure Class 250) Water Main with Joint Restraints with NDOT Trench (SP 1.3.6) ("OA1" 74+16 to "OA1" 74+27)	15	LF	\$920.00	\$13,800.00
BP.91 18 Inch DIP (Pressure Class 250) Water Main with Joint Restraints with NDOT Trench (SP 1.3.6) ("OA1" 74+27 to "OA1" 82+00)	773	LF	\$89.00	\$68,797.00
BP.92 18 Inch DIP (Pressure Class 250) Water Main with Joint Restraints with NDOT Trench (SP 1.3.6) ("OA1" 82+00 to "OA1" 85+80)	386	LF	\$110.00	\$42,460.00
BP.93 18 Inch DIP (Pressure Class 250) Water Main with Joint Restraints with NDOT Trench (SP 1.3.6) ("FS1" 61+63 to "FS2" 62+23)	82	LF	\$300.00	\$24,600.00
BP.94 10 Inch DIP (Pressure Class 250) with Joint Restraints Fire Services in NDOT Trench (SP 1.3.7)	63	LF	\$300.00	\$18,900.00
BP.95 Epoxy Coated 1/2 Inch Plate Steel Casing (SP 1.3.8) (30 Inch DIA)	1087	LF	\$410.00	\$445,670.00
BP.96 6 Inch Gate Valve (SP 1.3.9)	1	EA	\$1,285.00	\$1,285.00
BP.97 10 Inch Gate Valve (SP 1.3.10)	1	EA	\$2,300.00	\$2,300.00
BP.98 16 Inch Gate Valve (SP 1.3.11)	7	EA	\$8,500.00	\$59,500.00
BP.99 16 Inch Cut-In Gate Valve (SP 1.3.12)	2	EA	\$13,000.00	\$26,000.00
BP.100 18 Inch x 18 Inch Tapping Sleeve and Valve (SP 1.3.13)	1	EA	\$18,000.00	\$18,000.00
BP.101 Potable Water Air Release Assembly Complete (SP 1.3.15)	3	EA	\$2,600.00	\$7,800.00
BP.102 Fire Hydrant Assembly Complete (SP 1.3.16)	1	EA	\$9,500.00	\$9,500.00
BP.103 Line Location Riser (SP 1.3.17)	6	EA	\$180.00	\$1,080.00
BP.104 Cathodic Protection Systems (SP 1.3.18)	1	LS	\$28,000.00	\$28,000.00
BP.105 Sewer Joint Repair (SP 1.3.19) (24 Inch CMP SD)	22	LF	\$56.00	\$1,232.00
BP.106 Concrete Slurry Protective Cap (16 Inch Pipe Trench) (SP 1.3.20)	10	LF	\$95.00	\$950.00
BP.107 10" Double Check Detector Assembly with Vault Complete (SP 1.3.21)	1	EA	\$22,000.00	\$22,000.00
BP.108 10" Temporary Line Stop and Permanent Plug (SP 1.3.22)	1	EA	\$12,000.00	\$12,000.00
BP.109 Cut, Plug and Slurry Fill Water Main (SP 1.3.23) (10 Inch)	145	LF	\$13.00	\$1,885.00
BP.110 Cut, Plug and Slurry Fill Water Main (SP 1.3.23) (16 Inch)	2966	LF	\$11.00	\$32,626.00
BP.111 Selective Removal of Water Line (SP 1.3.23) (16 Inch ACP)	453	LF	\$45.00	\$20,385.00
BP.112 Abandon Water Valve (SP 1.3.25)	7	EA	\$165.00	\$1,155.00
BP.113 Abandon Fire Hydrant (SP 1.3.26)	1	EA	\$330.00	\$330.00
BP.114 Selective Stump Grinding (SP 1.3.27)	9	EA	\$500.00	\$4,500.00
BP.5015 Pavement Patch (SP 1.3.28) (E. Fifth Street Excluding Traffic Detour Pavement)	128	LF	\$70.00	\$8,960.00
BP.116 Pavement Patch (SP 1.3.28) (NSP Parking Lot "FS1" 47+10 to "FS1" 50+80)	275	LF	\$70.00	\$19,250.00
BP.117 Pavement Patch (SP 1.3.28) NSP Perimeter Access Road "FS1" 52+00 to "FS1" 55+75)	370	LF	\$120.00	\$44,400.00
BP.118 Subgrade Stabilization (SP 1.3.29) (10 Inch Pipe)	60	LF	\$30.00	\$1,800.00

**CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS
SCHEDULE D
E. FIFTH STREET WATER MAIN**

ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL WATER MAIN CONSTRUCTION FROM "OA1" 73+50 TO "FS1" 82+23 EXCEPT FREEWAY IRRIGATION SERVICE AT "FS1" 44+70, AND WATER MAIN ABANDONMENT FROM "OA1" 74+14 TO "OA1" 108+73.

PLAN SHEETS 5W-6W, 17E-21E, AND 22E-24E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
✓ BP.119 Subgrade Stabilization (SP 1.3.29) (16 Inch Pipe)	3200	LF	\$32.00	\$102,400.00
✓ BP.120 Traffic Detour Pavement (SP 1.3.30)	1	LS	\$105,000.00	\$105,000.00
ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$1,353,956.00

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

CONTINGENCY DURING CONSTRUCTION	Construction Contingency is based on Carson City experience with utility contracts. This value is the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest \$100.	10%	\$135,400.00
TOTAL CONSTRUCTION COST.	Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction.		\$1,489,356.00
CONSTRUCTION MANAGEMENT	Construction Management is the costs associated with contracted inspection, testing, supervision, and engineering services required in the field. Rounded to the nearest \$100.	10%	\$148,900.00
CONSTRUCTION PROJECT TOTAL COSTS			\$1,638,256.00
DESIGN ENGINEERING ESTIMATED REAL ESTATE AND EASEMENT COSTS	Engineering cost is based contracted and estimated engineering evaluation and design services and City in-house estimated coordination, design, and construction administration expenses for the project. Rounded to the nearest \$1000.	17%	\$230,000.00
			\$0.00
TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT			\$1,868,256.00

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS
E. FIFTH STREET WATER, SEWER AND RECLAIMED WATER RELOCATIONS *NON*
SCHEDULE E *Reimbursable*
E. FIFTH STREET AT&T COMMUNICATION DUCTS
 ESTIMATE OF PROBABLE CONSTRUCTION COST AND REIMBURSABLE PROJECT COSTS WITH CONTRACTOR'S BID UNIT COST

ALL AT&T COMMUNICATION DUCTS FROM "OA1" 82+00 TO "OA1" 84+10.

PLAN SHEET 17E

DESCRIPTION	SCHEDULED VALUE	UNIT	UNIT COST	TOTAL COST
BP.121 Additive Alternate 1, Mobilization/demobilization and Cleanup, this item specifically for Work in Schedule E (SP 1.4.1)	1	LS	\$2,500.00	\$2,500.00
BP.122 Additive Alternate 2, 9-4 Inch PVC Communications Ducts supplied by AT & T (SP 1.4.2)	1	LS	\$29,000.00	\$29,000.00
ESTIMATE OF PROBABLE CONSTRUCTION COST			SUBTOTAL	\$31,500.00

ADDITIONAL COST ASSOCIATED WITH RELOCATION

NOTES:

CONSTRUCTION CONTINGENCY Construction Contingency is based on Carson City experience with utility contracts. This value is DURING the Engineer's Estimate of Probable Construction Costs * percent and rounded up to the nearest CONSTRUCTION \$100. 10% \$3,200.00

TOTAL CONSTRUCTION COST Total construction costs. This is the sum of the Engineer's Estimate of Probable Construction Costs and Contingency During Construction. \$34,700.00

CONSTRUCTION MANAGEMENT Construction Management is the costs associated with contracted inspection, testing, supervision, MANAGEMENT and engineering services required in the field. Rounded to the nearest \$100. 10% \$3,500.00

CONSTRUCTION PROJECT TOTAL COSTS \$38,200.00

PROJECT ENGINEERING Project Engineering cost is based contracted and estimated engineering evaluation and design services DESIGN and City in-house estimated coordination, design, and construction administration expenses for ENGINEERING the project. Rounded to the nearest \$1000. 17% \$5,000.00

ESTIMATED REAL ESTATE AND EASEMENT COSTS \$0.00

TOTAL PROJECT COSTS AS BASIS OF DETERMINING REIMBURSEMENT \$43,200.00

CARSON CITY PUBLIC WORKS DEPARTMENT
Engineering Division
3505 Butti Way
Carson City, Nevada 89701
(775) 887-2355 Ext.1002 Fax 887-2112

EXHIBIT "E"

LETTER OF TRANSMITTAL

To: State Of Nevada
 Department of Transportation
 1263 S Stewart St
 Carson City, NV 89701

Date: July 12, 2007

Job #: 00-6010

Attention: Chelsea Ryan

Re: Carson City Freeway PH 2A Utilities Relocations

We are sending the attached:

DATE	No.	DESCRIPTION
July 12, 2007	1	East Fifth St, Water, Sewer & Reclaimed Water Relocations, Revised Estimate of Costs, Agreement # P417-06-030

THESE ARE TRANSMITTED as checked below:

- | | | |
|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> For approval | <input checked="" type="checkbox"/> For your use | <input checked="" type="checkbox"/> As requested |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> For your information | <input type="checkbox"/> Returned for correction |
| <input type="checkbox"/> For signature | | |

Remarks: Chelsea, these estimates have been revised to reflect the unit prices and bid items that correspond to the McQueary bid for the project.

SIGNED 
 Jay Ahrens, PE, Senior Project Manager

COPY TO: Jim Roland, Louis Berger Group, Inc
 Andrew Burnham, Public Works Director

CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS

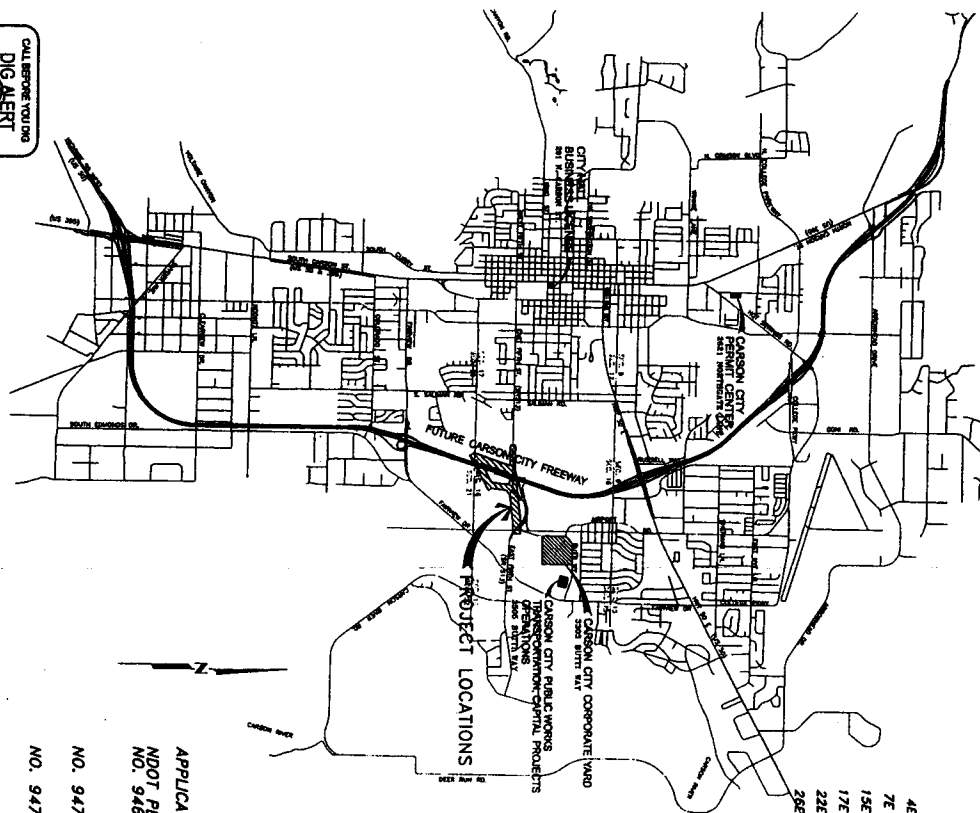
EXHIBIT "F"

E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTI WAY
CARSON CITY, NEVADA - SEC 16 & 21, T15N, R20E
PROJECT 00-6010

- BOARD OF SUPERVISORS**
- Mary Teixeira Mayor
 - Robin Williamson Supervisor
 - Shelly Alderson Supervisor
 - Pete Livermore Supervisor
 - Richard Staub Supervisor
 - Alan Glover City Clerk

DESIGNED FOR:
CARSON CITY PUBLIC WORKS
OPERATIONS DIVISION
3505 BUTTI WAY
CARSON CITY, NV 89701
887-2355

- GENERAL NOTES:**
- ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC UTILITIES CONSTRUCTION (PUC) AND STANDARD PLANS (SP) FOR ROAD AND BRIDGE CONSTRUCTION IN NEVADA.
 - ALL EXISTING UTILITIES AND STRUCTURES WITHIN THE CARSON CITY AND NEVADA STATE HIGHWAY RIGHT-OF-WAY SHALL BE MAINTAINED AND PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD.
 - THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM THE NEVADA STATE HIGHWAY DEPARTMENT AND THE NEVADA STATE DEPARTMENT OF WATER RESOURCES.
 - THE LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RELOCATION OF ALL UTILITIES TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RELOCATION OF ALL UTILITIES TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
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 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RELOCATION OF ALL UTILITIES TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.



SHEET INDEX

- 1E TITLE SHEET
- 2E ROAD MAP, ABBREVIATIONS AND CONTROL POINTS
- 3E E. FIFTH ST. EAST OF FREEWAY - SANITARY SEWER
- 4E - 6E E. FIFTH ST. / LINEAR DITCH - SANITARY SEWER
- 7E - 14E LINEAR DITCH / WWTP - SANITARY SEWER
- 15E - 16E LINEAR DITCH - RECLAIMED WATER
- 17E - 21E E. FIFTH ST. WEST OF FREEWAY / BUTTIWAY - WATER
- 22E - 25E UTILITY REMOVAL/ABANDONMENT PLANS
- 26E-34E TYPICAL CONSTRUCTION DETAILS



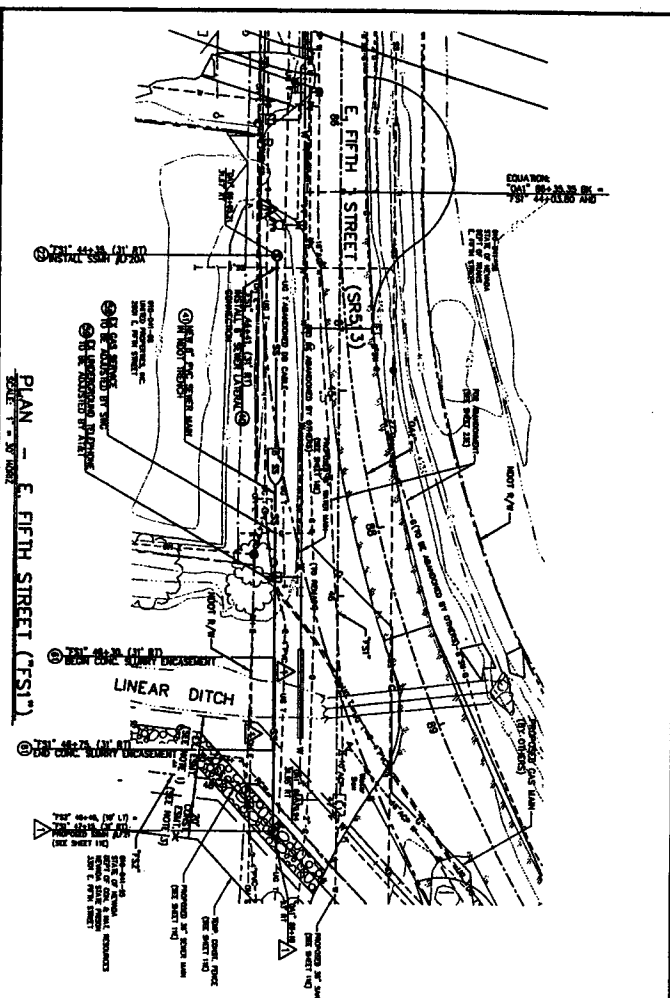
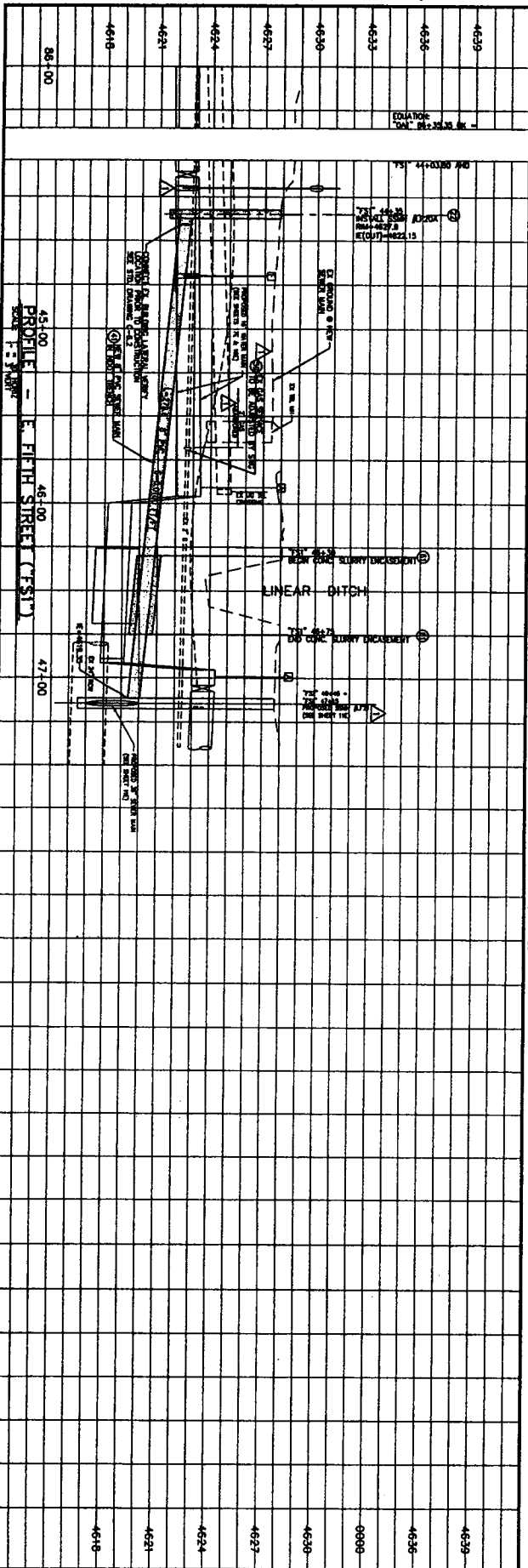
REVIEWED FOR CITY REQUIREMENTS:

DEVELOPMENT ENGINEER	DATE
JEFF SWART, P.E. - DEPUTY CITY ENGINEER	
REN ARNOLD, PUBLIC WORKS OPERATIONS MANAGER	

APPLICATION NO. 07-333

NDOT PERMITS US 395 - CARSON CITY FREEWAY
 SANITARY SEWER E. FIFTH ST. / LINEAR DITCH TO WWTP
 NO. 94705 - SR 513 E. FIFTH STREET
 36 INCH SANITARY SEWER
 FREeway IRRIGATION WATER SERVICE
 NO. 94711 - SR 513 E. FIFTH STREET
 16 INCH SANITARY SEWER
 8 INCH SANITARY SEWER
 SEWER AND WATER MAIN ABANDONMENTS
 USCOE PERMITS (WETLANDS) - 200600448
 NDEP BSDW NO. (CC-2766-07 RPD)A

<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTI WAY PROJECT No. 00-6010 TITLE SHEET</p>		<p>REV. DATE DESCRIPTION BY APP'D</p> <p>1 5/30/07 ADDENDUM No. 1 GJV GJV</p> <p>2 5/30/07 ADDENDUM No. 2 GJV GJV</p> <p>3 5/30/07 ADDENDUM No. 3 GJV GJV</p> <p>4 5/30/07 ADDENDUM No. 4 GJV GJV</p> <p>5 5/30/07 CONFIRMATION SET GJV GJV</p> <p>6 5/30/07 PLAN CLARIFICATIONS GJV GJV</p>	<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 887-2355 FAX: 887-2112</p> <p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>	<p>DESIGNED BY: JES DRAWN BY: JCV CHECKED BY: JCV DATE: 05-30-07</p>
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 HORIZONTAL

EASEMENT NOTES:
 1. CARSON CITY FREIGHT EASEMENT AND RIGHT OF WAY FOR UNDERGROUND UTILITY FACILITIES SHOWN ON THIS PLAN IS A NECESSARY CONSTRUCTION EASEMENT, NOT AN EASEMENT OF 1/4 AC STATE LAND/PERSON EASEMENT ACCESS OF THE SPECIAL CONDITIONS FOR BORN WITHIN THE EASEMENT.

CONSTRUCTION NOTES:
 1. INSTALL NEW CONCRETE 48" DIA. TYP. 1' DEEPEST SANDHOLE MANHOLE IN NORTH RIGHT OF WAY FOR STD DETAIL C-44.
 2. INSTALL 6" DIA. TYP. 1' DEEPEST SANDHOLE MANHOLE IN NORTH RIGHT OF WAY FOR STD DETAIL C-44.
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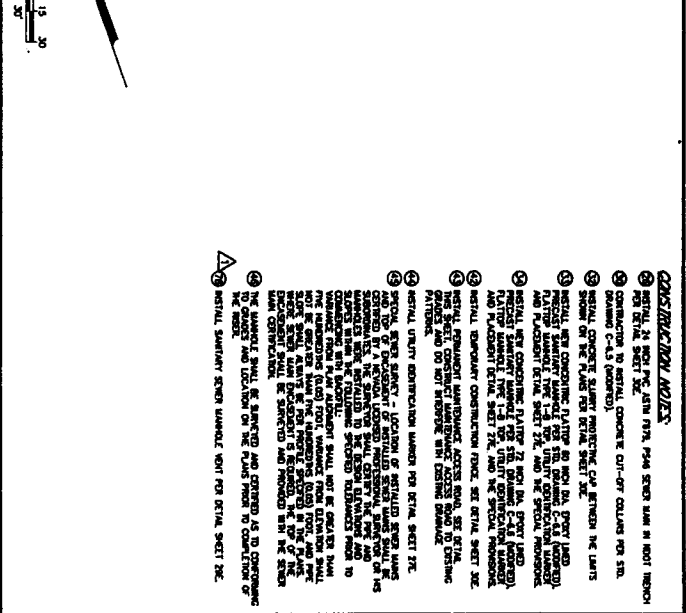
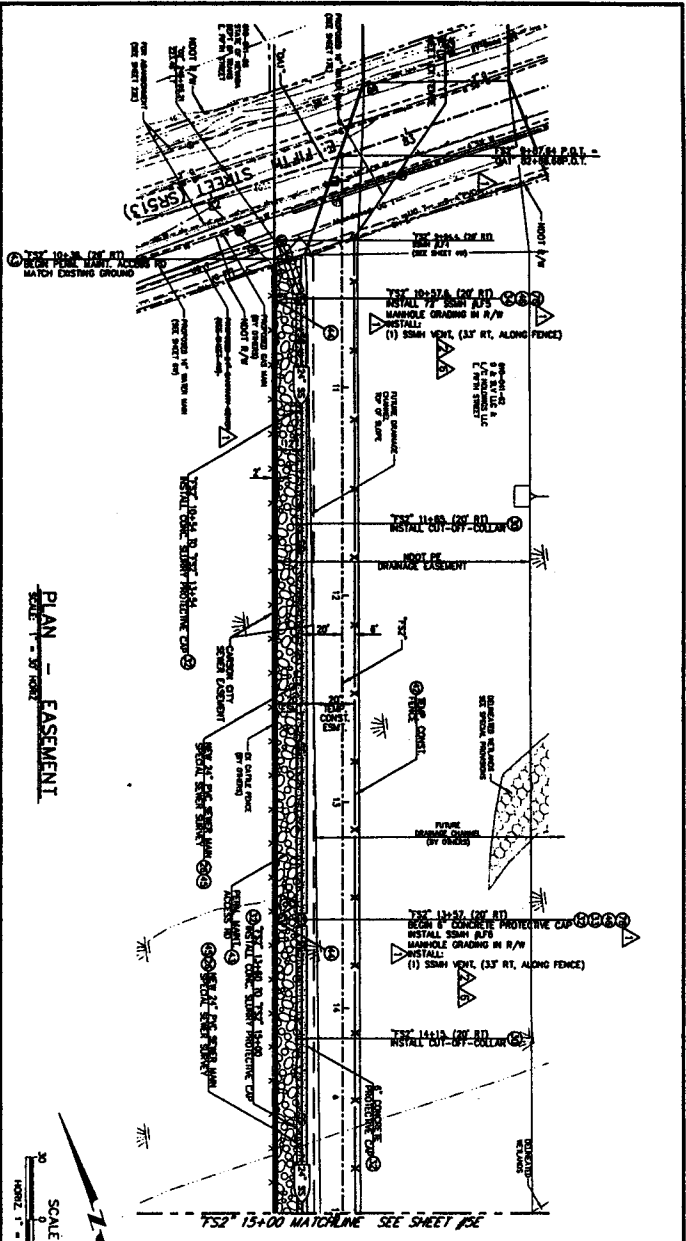
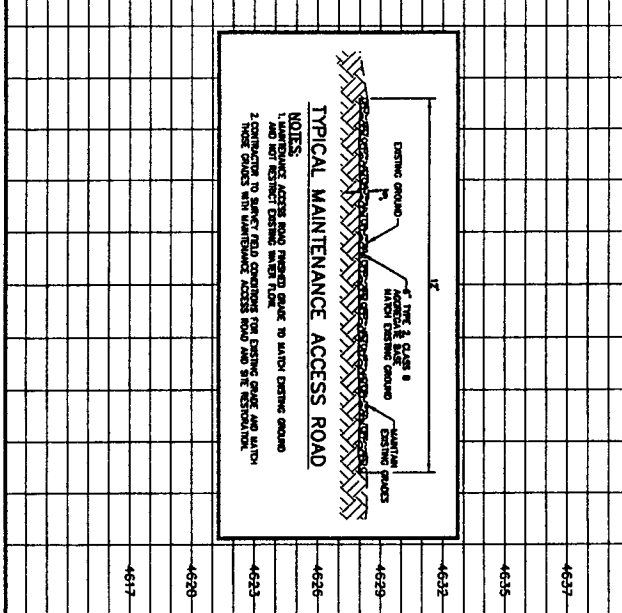
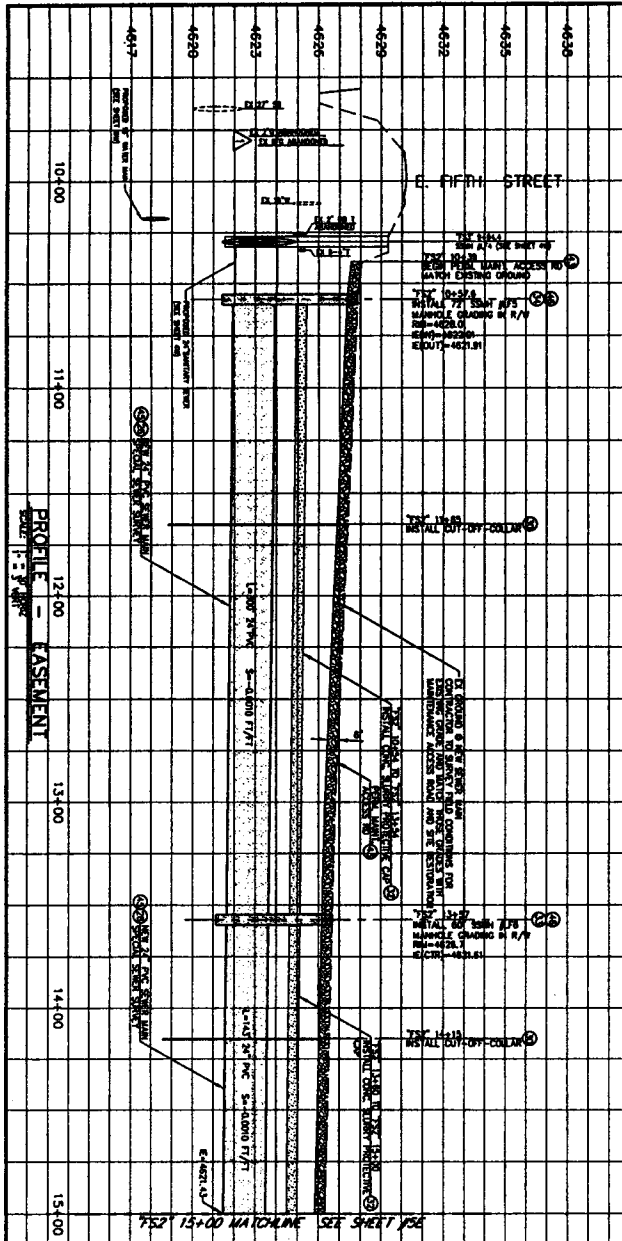
CARSON CITY FREeway PHASE 2A
 UTILITY RELOCATIONS
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTI WAY
 PROJECT No. 00-601Q
 SANITARY SEWER RELOCATION
 "0A1" 86+00 to "FS1" 47+50

REV.	DATE	DESCRIPTION	BY	APP'D
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2	5/2/07	CONFIRMED PLAN SET	GV	JR

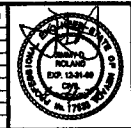
CARSON CITY PUBLIC WORKS DEPARTMENT
 3308 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 867-2358 FAX: 867-3113

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

DESIGNED BY: JR
 DRAFTER BY: JET
 CHECKED BY: JCK
 DATE: 05-21-07
 SCALE: (HORIZONTAL) 1" = 30'
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 PLOT DATE: 05-21-07



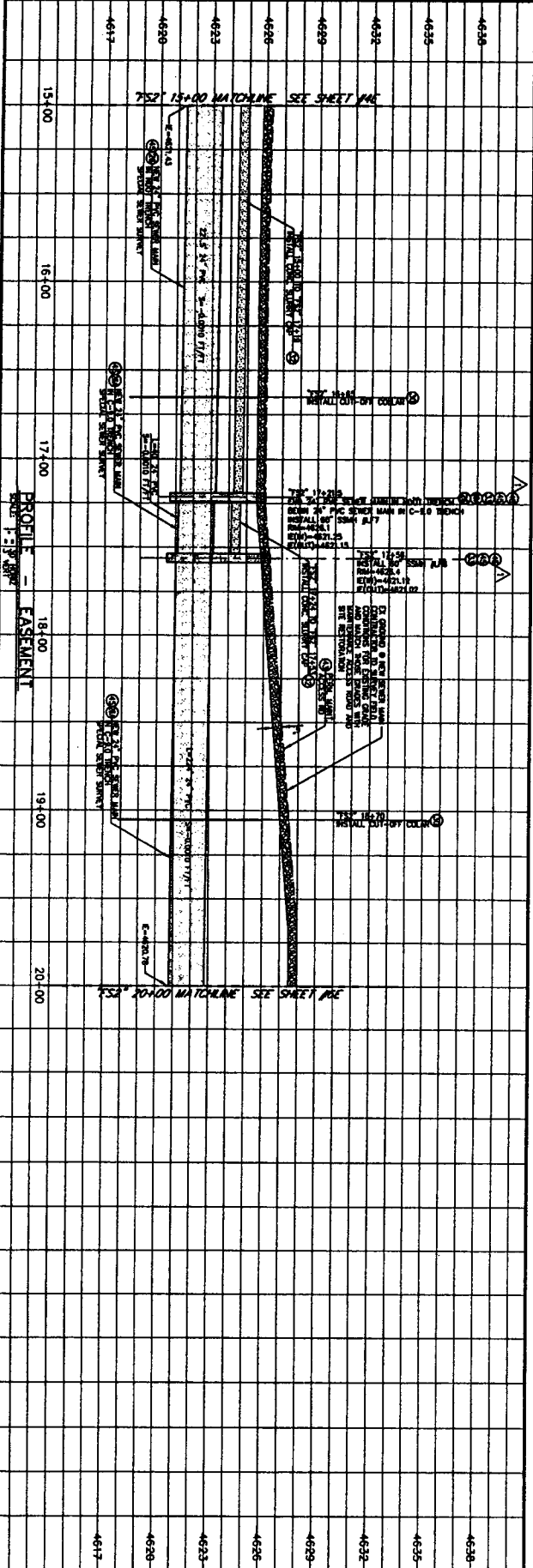
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2	5/15/07	ADDendum No. 2	CVF	CVF
3	5/29/07	COORDINATED PLAN SET	CVF	CVF
4	5/31/07	PLAN CLARIFICATIONS	CVF	CVF



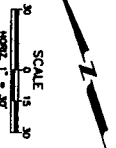
CARSON CITY PUBLIC WORKS DEPARTMENT
 3605 BUTTE WAY CARSON CITY, NEVADA 89101
 PH: 867-2388 FAX: 867-2112

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

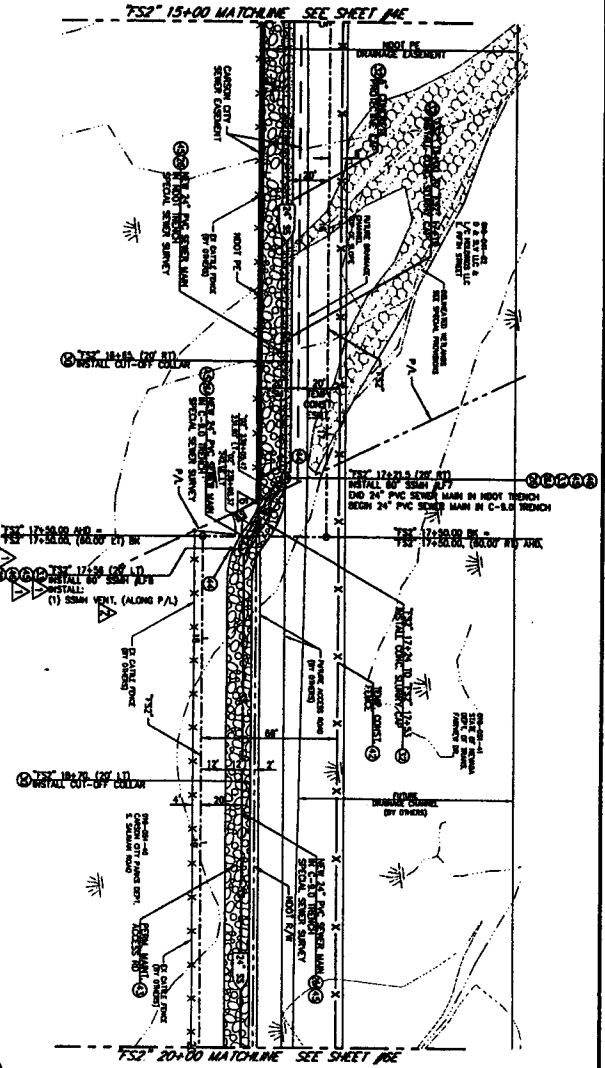
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PROFILE - EASEMENT



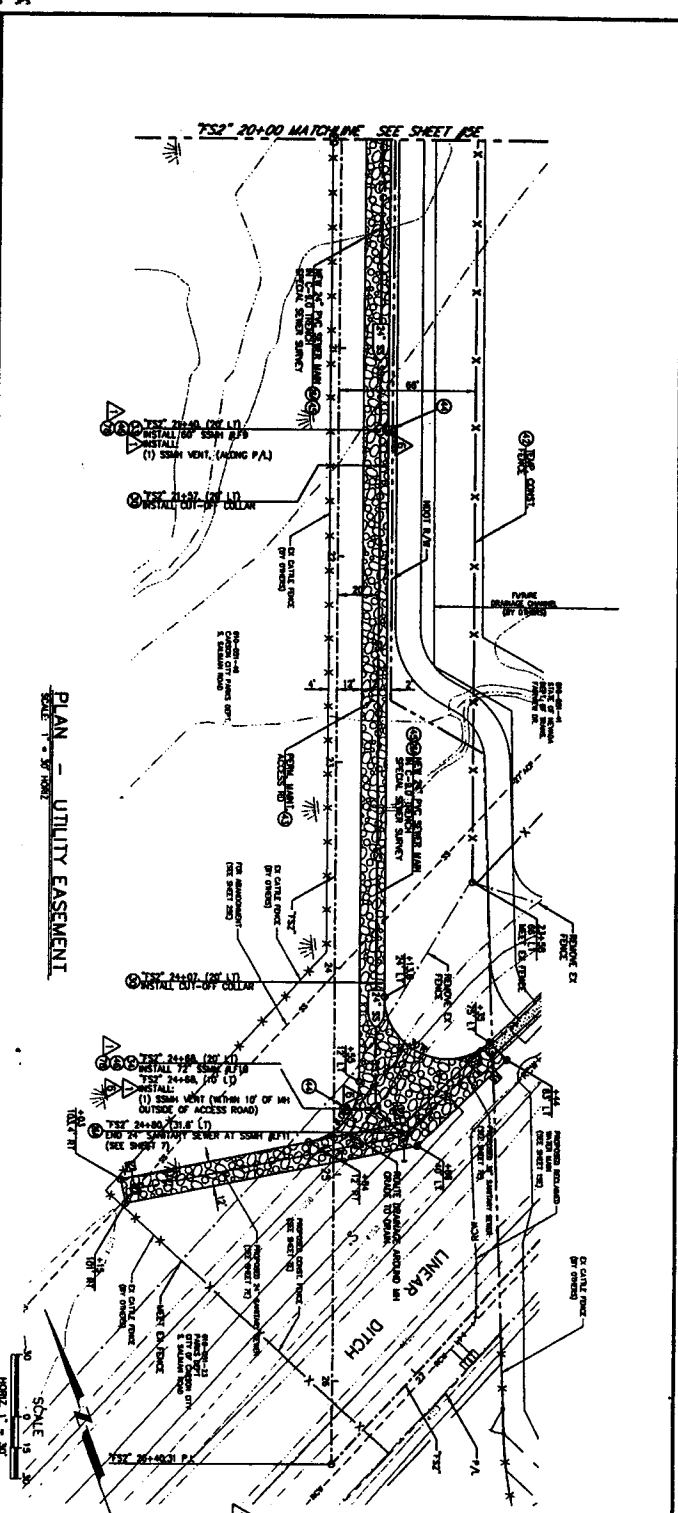
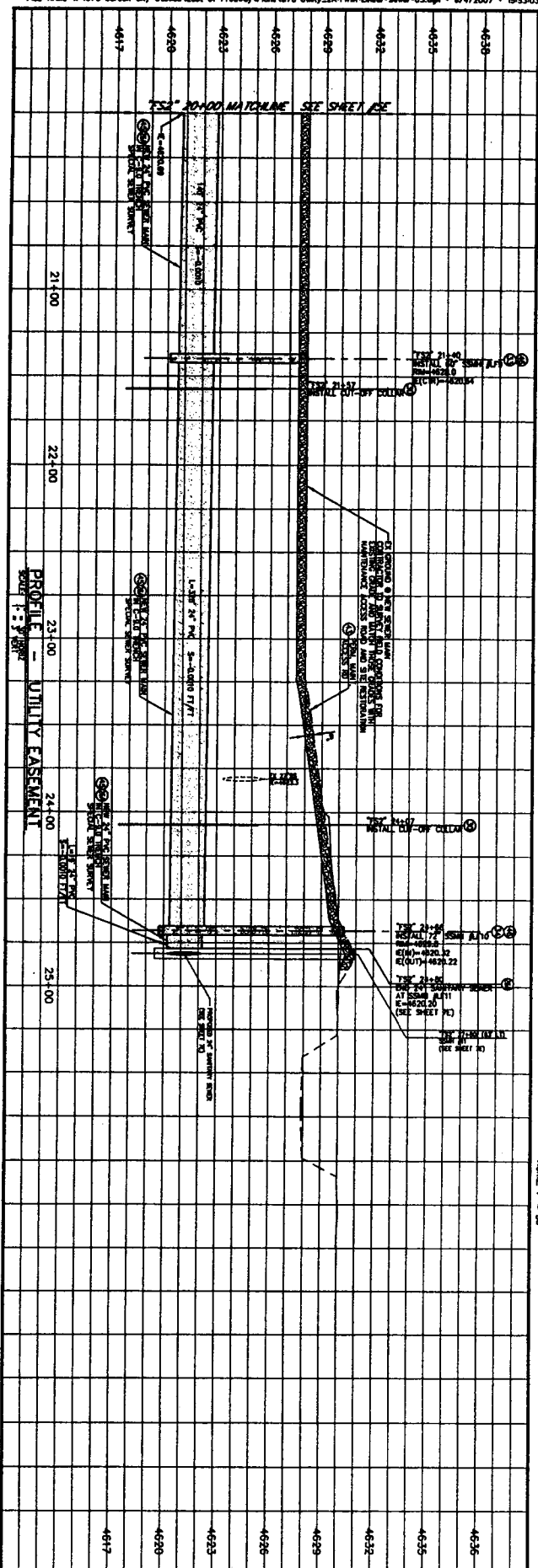
PLAN - EASEMENT



- CONSTRUCTION NOTES**
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SHEET 34 SE	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BOUTH WAY PROJECT No. 00-6010 24" SANITARY SEWER RELOCATION "FS2" 15+00 to "FS2" 20+00	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP'D</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/14/07</td> <td>ISSUED NO. 1</td> <td>JR</td> <td>JR</td> </tr> <tr> <td>2</td> <td>5/14/07</td> <td>ISSUED NO. 2</td> <td>JR</td> <td>JR</td> </tr> <tr> <td>3</td> <td>5/14/07</td> <td>CONFIRMED PLAN SET</td> <td>JR</td> <td>JR</td> </tr> <tr> <td>4</td> <td>5/14/07</td> <td>PLAN CLARIFICATIONS</td> <td>JR</td> <td>JR</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	BY	APP'D	1	5/14/07	ISSUED NO. 1	JR	JR	2	5/14/07	ISSUED NO. 2	JR	JR	3	5/14/07	CONFIRMED PLAN SET	JR	JR	4	5/14/07	PLAN CLARIFICATIONS	JR	JR	 CARSON CITY PUBLIC WORKS DEPARTMENT 3508 BOUTH WAY CARSON CITY, NEVADA 89701 PH: 867-2358 FAX: 867-2112 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	DESIGNED BY: JER DRAWN BY: JCY CHECKED BY: JEC DATE: 05-14-07 SCALE (DWG): 1"=20' SCALE (TEXT): 1"=20' PLOT DATE: 05-14-07
REV.	DATE	DESCRIPTION	BY	APP'D																									
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3	5/14/07	CONFIRMED PLAN SET	JR	JR																									
4	5/14/07	PLAN CLARIFICATIONS	JR	JR																									

PERMIT NO. 07-333



PLAN - UTILITY EASEMENT
 SCALE = 3/8\"/>

- CONSTRUCTION NOTES**
1. INSTALL 24" HDPE BELL 4778, 48" SPAN SEWER LINE IN C-30 MASONRY FOR 50' BRACING C-40 (BORDER).
 2. CONSTRUCTION TO INSTALL CONCRETE CUT-OFF COLLARS PER STA. DRAWING C-43 (BORDER).
 3. INSTALL 3/4" CONCRETING PLATE PER STA. DRAWING C-44 (BORDER).
 4. INSTALL 3/4" CONCRETING PLATE PER STA. DRAWING C-45 (BORDER).
 5. ALL TRENCHES SHALL BE 48" WIDE AND 24" DEEP UNLESS OTHERWISE NOTED.
 6. ALL TRENCHES SHALL BE 48" WIDE AND 24" DEEP UNLESS OTHERWISE NOTED.
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 15. ALL TRENCHES SHALL BE 48" WIDE AND 24" DEEP UNLESS OTHERWISE NOTED.

REV.	DATE	DESCRIPTION	BY	APP'D
A	5/13/07	ADDENDUM NO. 1	JP	JR
A	5/24/07	CONFORMED PLAN SET	JP	JR
A	5/24/07	PLAN CLARIFICATIONS	JP	JR

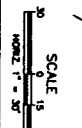
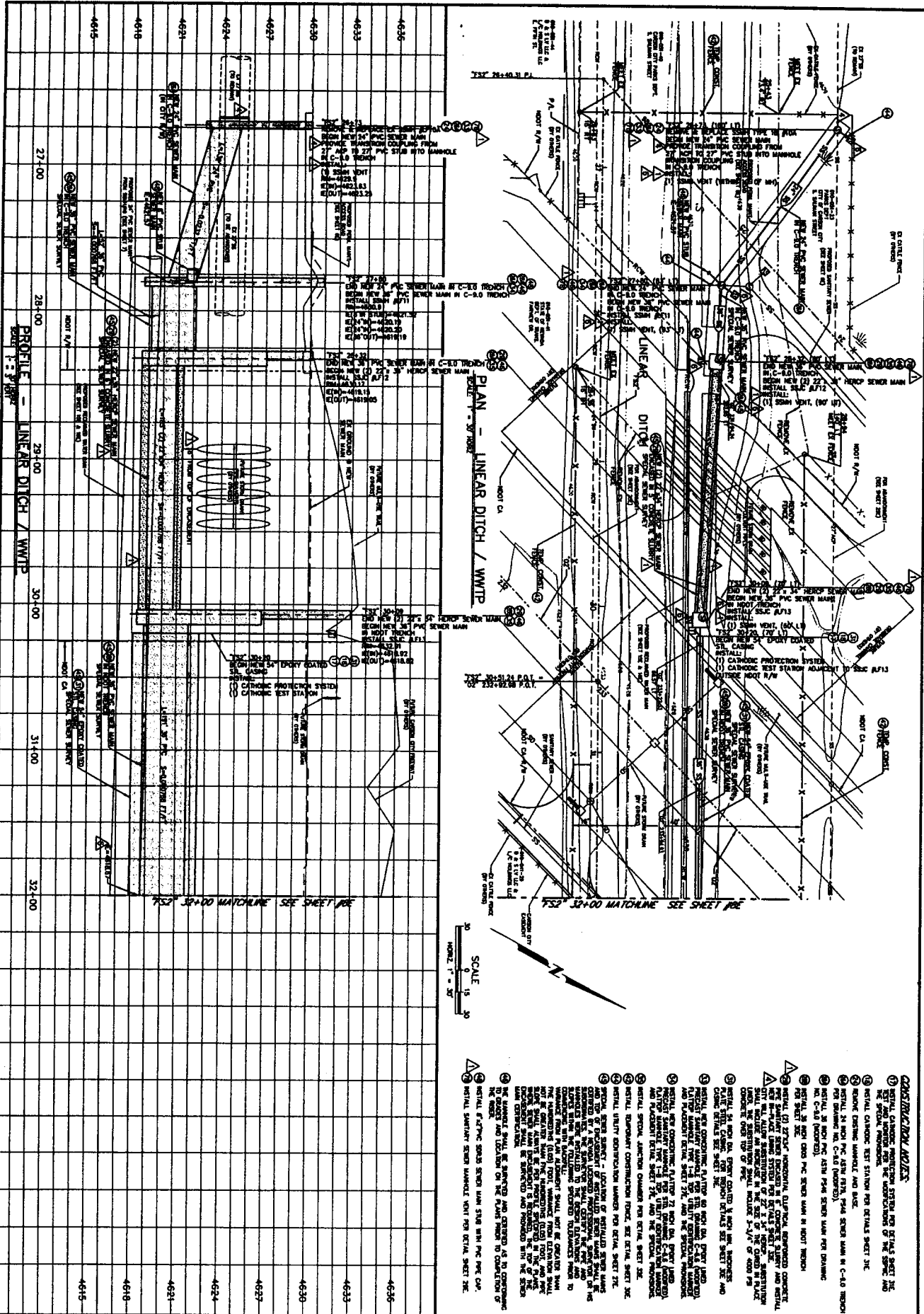
**CARSON CITY FREEWAY PHASE 2A
UTILITY RELOCATIONS**
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTT WAY
 PROJECT No. 00-601Q
24" SANITARY SEWER RELOCATION
 "FS2" 20+00 TO "FS2" 28+40

CARSON CITY
PUBLIC WORKS DEPARTMENT
 3505 BUTT WAY CARSON CITY, NEVADA 89701
 PH: 867-2355 FAX: 867-2112


THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

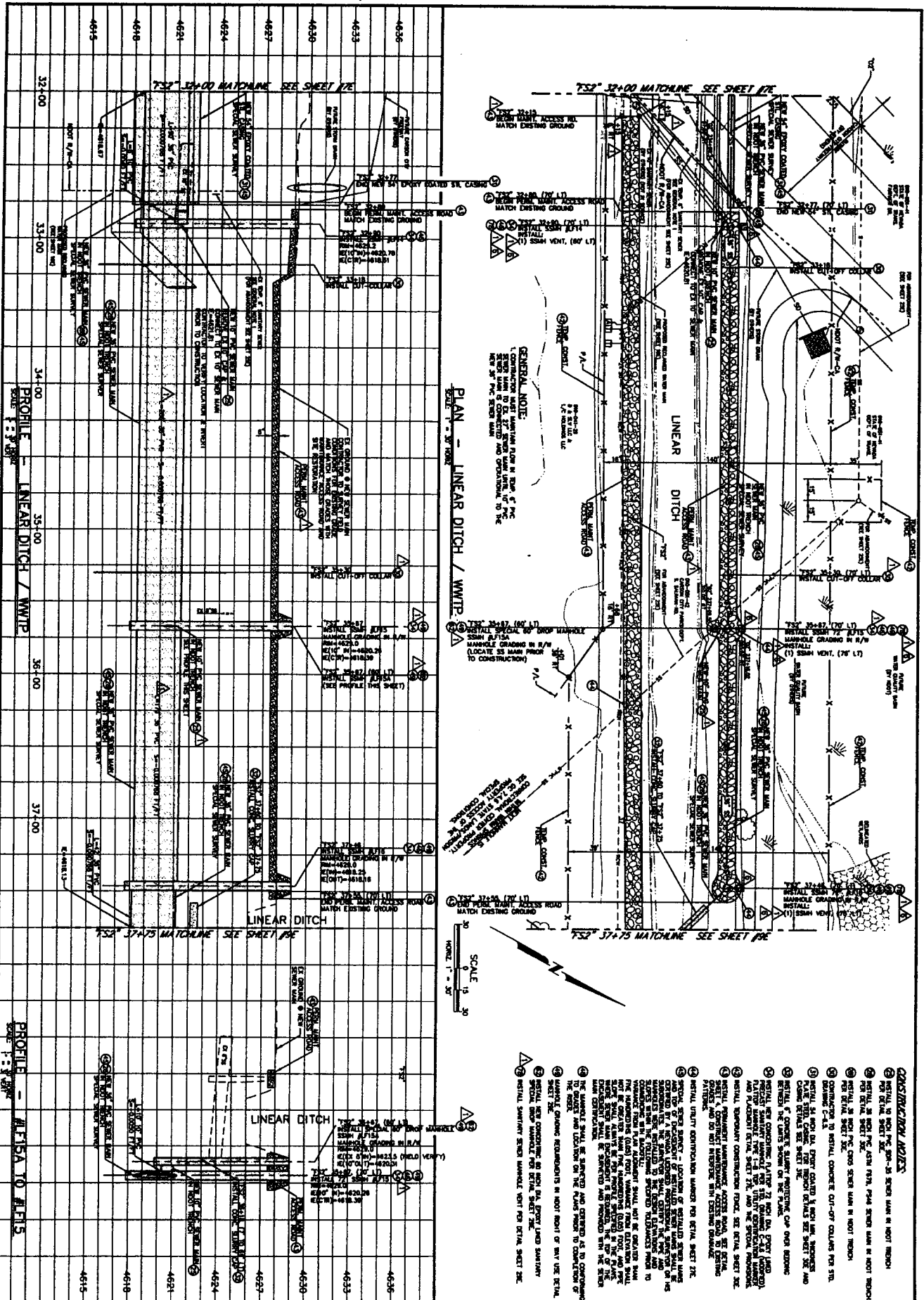
PERMIT NO. 07-333


DESIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: JET
 INCHES: 1" = 40'
 SCALE: 3/8" = 30'
 PLOT DATE: 08-01-07



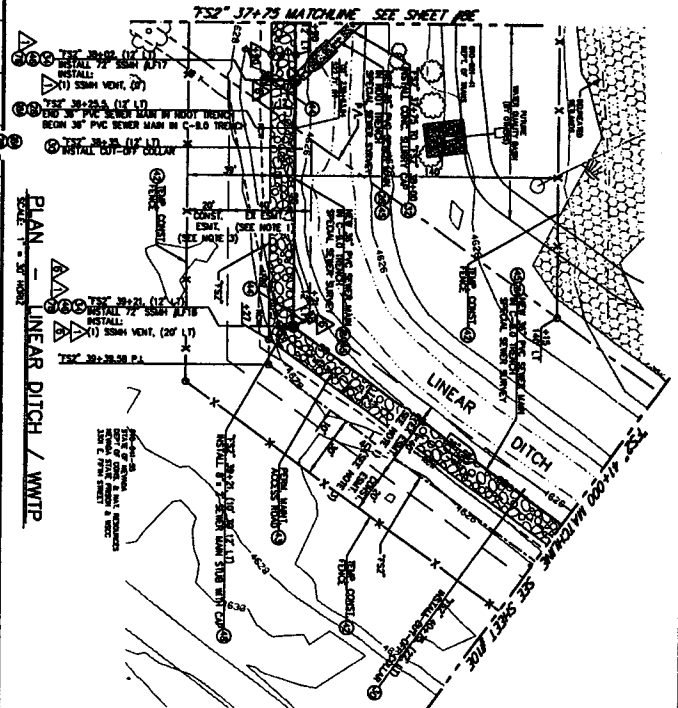
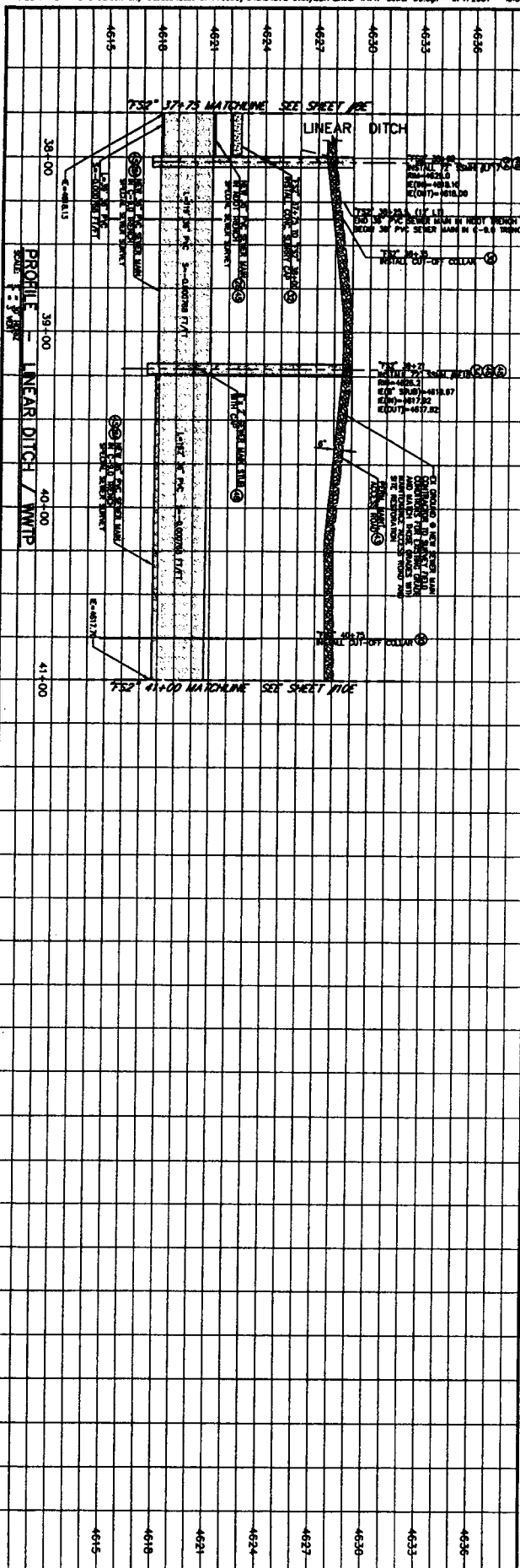
- CONSTRUCTION NOTES**
- 1 INSTALL CATHODIC PROTECTION SYSTEM PER DETAIL SHEET 31E
 - 2 REPAIR AND RECONSTRUCT PER THE REQUIREMENTS OF THE SPEC AND THE SPECIAL PROVISIONS.
 - 3 REPAIR CATHODIC TEST STATION PER DETAIL SHEET 31C.
 - 4 REMOVE EXISTING MANHOLE AND DUCT.
 - 5 INSTALL 36 IN DIA. 48 IN DEPTH PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 6 INSTALL 36 IN DIA. 48 IN PERC 4538 SDR SAN MAIN PER DRAWING IN C-40 REGION.
 - 7 INSTALL 36 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 8 INSTALL 24 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 9 INSTALL 24 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 10 INSTALL 18 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 11 INSTALL 18 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 12 INSTALL 12 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 13 INSTALL 12 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 14 INSTALL 12 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.
 - 15 INSTALL 12 IN DIA. 48 IN PERC 4538 SDR SAN MAIN IN C-40 REGION.

<p>SHEET 7E OF 34</p>	<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-801Q</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP'D</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/23/07</td> <td>ISSUANCE NO. 1</td> <td>SP</td> <td>SP</td> </tr> <tr> <td>2</td> <td>5/23/07</td> <td>ISSUANCE NO. 2</td> <td>SP</td> <td>SP</td> </tr> <tr> <td>3</td> <td>5/23/07</td> <td>CONFIRMED PLAN SET</td> <td>SP</td> <td>SP</td> </tr> <tr> <td>4</td> <td>5/23/07</td> <td>PLAN CLARIFICATIONS</td> <td>SP</td> <td>SP</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	BY	APP'D	1	5/23/07	ISSUANCE NO. 1	SP	SP	2	5/23/07	ISSUANCE NO. 2	SP	SP	3	5/23/07	CONFIRMED PLAN SET	SP	SP	4	5/23/07	PLAN CLARIFICATIONS	SP	SP		<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3008 BUTTE WAY CARSON CITY, NEVADA 89701 PH. 867-2336 FAX 867-2112</p>	<p>DESIGNED BY: JMR DRAWN BY: BT CHECKED BY: JCC IN CHARGE: BRW</p> <p>SCALE DRAWING: 1"=30' SCALE PLAN: 1"=30' PLOT DATE: 06-21-07</p>
	REV.	DATE	DESCRIPTION	BY	APP'D																									
	1	5/23/07	ISSUANCE NO. 1	SP	SP																									
2	5/23/07	ISSUANCE NO. 2	SP	SP																										
3	5/23/07	CONFIRMED PLAN SET	SP	SP																										
4	5/23/07	PLAN CLARIFICATIONS	SP	SP																										
<p>SANITARY SEWER RELOCATION "FS2" 26+40 TO "FS2" 32+00</p>		<p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>																												
<p>PERMIT NO. 07-333</p>		<p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>																												



CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BATH WAY PROJECT No. 00-601Q 36" SANITARY SEWER RELOCATION "FS2" 32+00 to "FS2" 37+75				REV. DATE DESCRIPTION BY APP'D 1/24/07 CONFORMED PLAN SET RLS 9/2/07 PLAN CLARIFICATIONS RLS	 THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	PUBLIC WORKS DEPARTMENT 3206 SOUTH WAY CARSON CITY, NEVADA 89701 PH: 867-8365 FAX: 867-2112	DESIGNED BY: SM DRAWN BY: BY CHECKED BY: SM SCALE (HORIZONTAL): 1" = 30' SCALE (VERTICAL): 1" = 2' PLOT DATE: 08-01-07
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PERMIT NO. 07-333



PLAN - LINEAR DITCH / WWTIP

SCALE 1" = 30'

EASEMENT NOTES
 1. CARSON CITY ENGINEERING AND SURVEYING, INC. HAS BEEN ADVISED BY THE CARSON CITY PUBLIC WORKS DEPARTMENT THAT THE EXISTING 36" SANITARY SEWER IS LOCATED AT THE STATIONING SHOWN ON THIS SHEET. THE EXISTING SEWER LINE IS TO BE RELOCATED TO THE STATIONING SHOWN ON THIS SHEET. THE EXISTING SEWER LINE IS TO BE ABANDONED AND REMOVED. THE EXISTING SEWER LINE IS TO BE RELOCATED TO THE STATIONING SHOWN ON THIS SHEET. THE EXISTING SEWER LINE IS TO BE ABANDONED AND REMOVED.

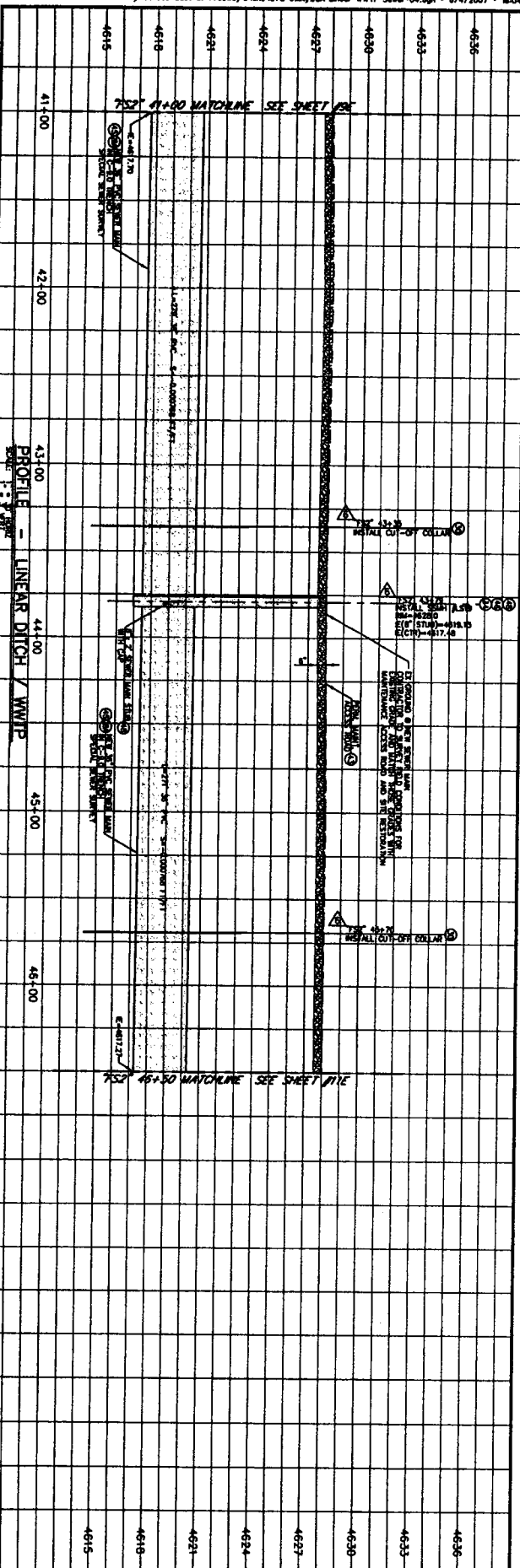
- CONSTRUCTION NOTES**
- 1. ALL EXISTING UTILITIES TO REMAIN SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 2. ALL EXISTING UTILITIES TO BE REMOVED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 3. ALL EXISTING UTILITIES TO BE RELOCATED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 4. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 5. ALL EXISTING UTILITIES TO BE RELOCATED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 6. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 7. ALL EXISTING UTILITIES TO BE RELOCATED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 8. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 9. ALL EXISTING UTILITIES TO BE RELOCATED SHALL BE SHOWN AS SUCH ON THIS SHEET.
 - 10. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE SHOWN AS SUCH ON THIS SHEET.

CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY
 PROJECT No. 00-6010
36" SANITARY SEWER RELOCATION
 "FS2" 37+75 to "FS2" 41+00

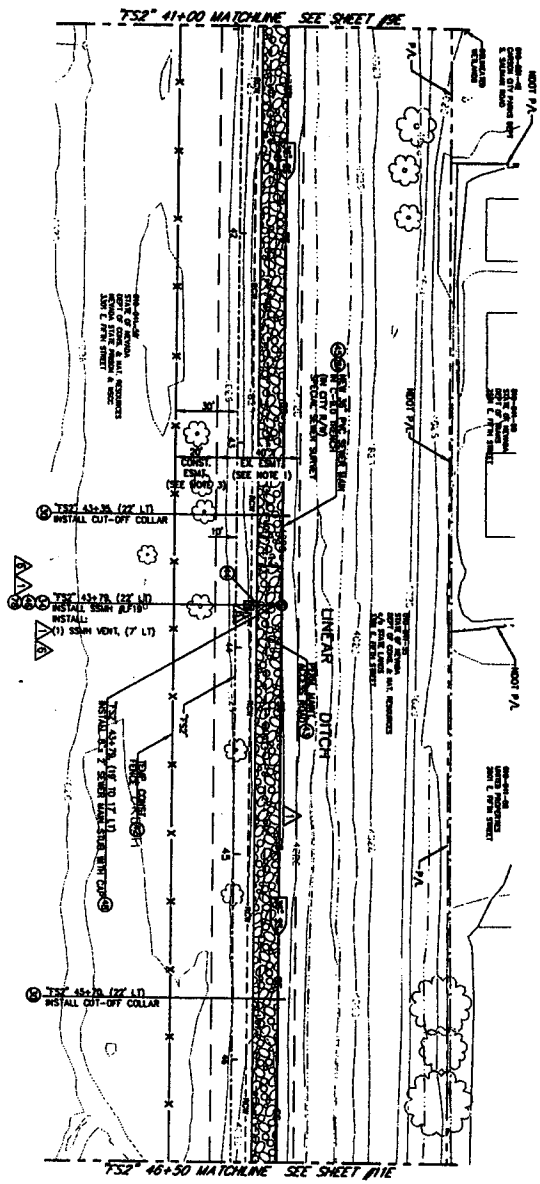
REV.	DATE	DESCRIPTION	BY	APP'D
1	5/18/07	ADDITIONAL 1"	GFV	JZR
2	5/21/07	CONFORMED PLAN SET	GFV	JZR
3	5/4/07	PLAN CLARIFICATIONS	GFV	JZR

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

DESIGNED BY: JZR
 DRAWN BY: JZY
 CHECKED BY: JZC
 DATE PLOTTED: 08-29-07
 SCALE: (VERTICAL) 1" = 10'
 SCALE (HORIZONTAL) 1" = 30'



PLAN - LINEAR DITCH / WWTP
 SCALE: 1" = 30'



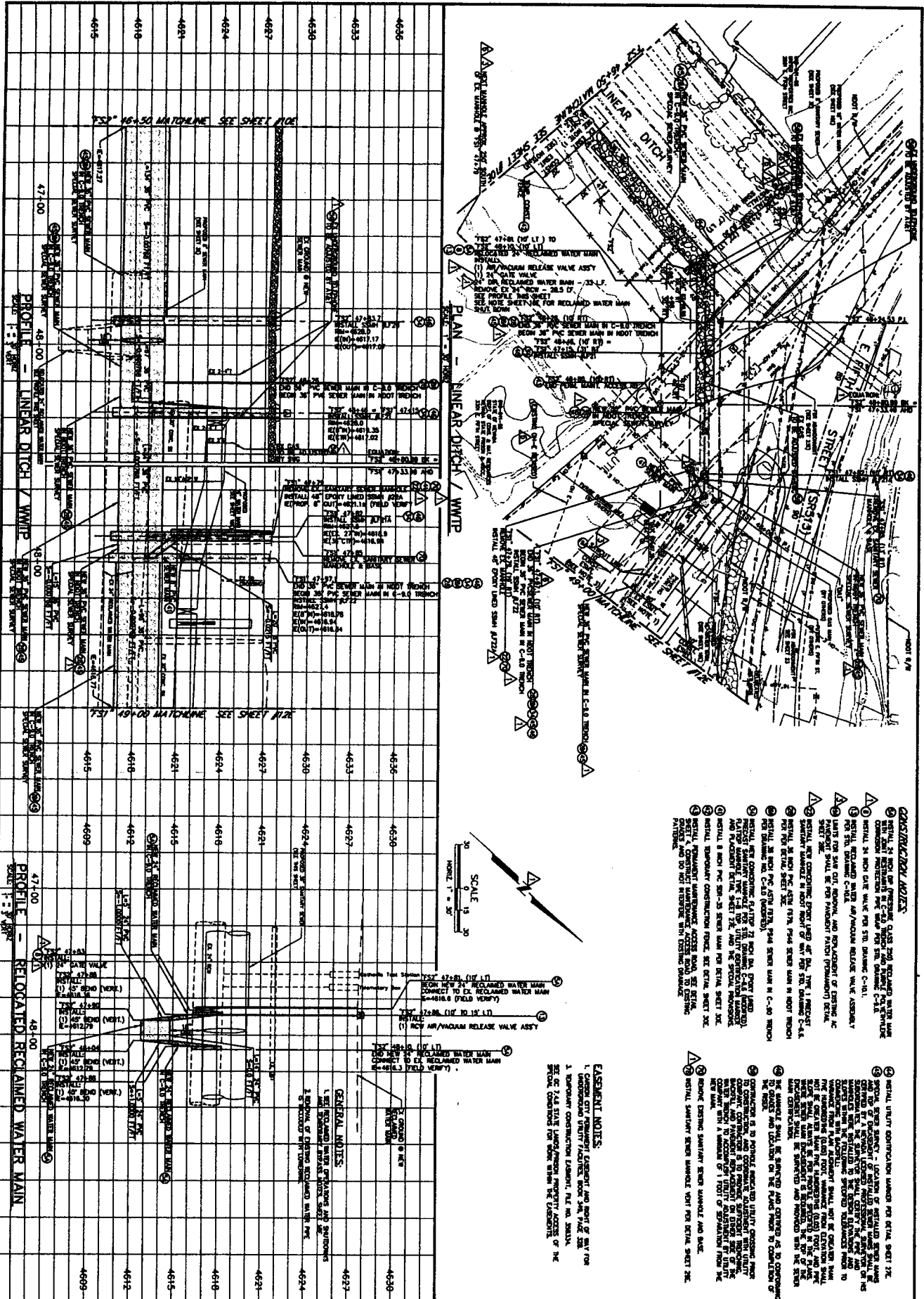
SCALE: 1" = 30'

EASERTMENT NOTES:
 1. ALL EASERTMENTS ARE SHOWN AS SHOWN FOR THE PROPOSED CONSTRUCTION EASERTMENT. THE EXISTING EASERTMENTS ARE SHOWN AS SHOWN FOR THE EXISTING CONSTRUCTION EASERTMENT.
 2. THE EXISTING EASERTMENTS ARE SHOWN AS SHOWN FOR THE EXISTING CONSTRUCTION EASERTMENT.
 3. THE EXISTING EASERTMENTS ARE SHOWN AS SHOWN FOR THE EXISTING CONSTRUCTION EASERTMENT.

- CONSTRUCTION NOTES:**
- 1. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 PER DRAWING SET C-4.0 (EXCEPT).
 - 2. CONTRACTOR TO INSTALL CONCRETE CUT-OFF COLLARS PER SHEET 07-333 (EXCEPT).
 - 3. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).
 - 4. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).
 - 5. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).
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 - 98. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).
 - 99. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).
 - 100. INSTALL 36" DIA. PC SANITARY SEWER PER SHEET 07-333 (EXCEPT).

SHEET 10E OF 34	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-601Q 36" SANITARY SEWER RELOCATION "FS2" 41+00 to "FS2" 46+30	REV. DATE DESCRIPTION BY APP'D 1/15/07 APPROVED No. 1 JF JOR 5/21/07 CONFIRMED PLAN SET JF JOR 6/7/07 PLAN CLARIFICATIONS JF JOR	DESIGNED BY: JEL DRAWN BY: JEL CHECKED BY: JEL INVO NO.: 00-601Q-001-00-00 SCALE DRAWING: 1"=30' SCALE PLOT: 1"=30' PLOT DATE: 06-01-07
		PUBLIC WORKS CITY 3505 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2336 FAX: 867-2112	THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA

PERMIT NO. 07-333



- CONSTRUCTION NOTES**
- INSTALL 36" DIA. SANITARY SEWER PIPE PER DETAIL SHEET 20C.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20D.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20E.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20F.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20G.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20H.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20I.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20J.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20K.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20L.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20M.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20N.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20O.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20P.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20Q.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20R.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20S.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20T.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20U.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20V.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20W.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20X.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20Y.
 - INSTALL 36" DIA. SANITARY SEWER MANHOLE PER DETAIL SHEET 20Z.

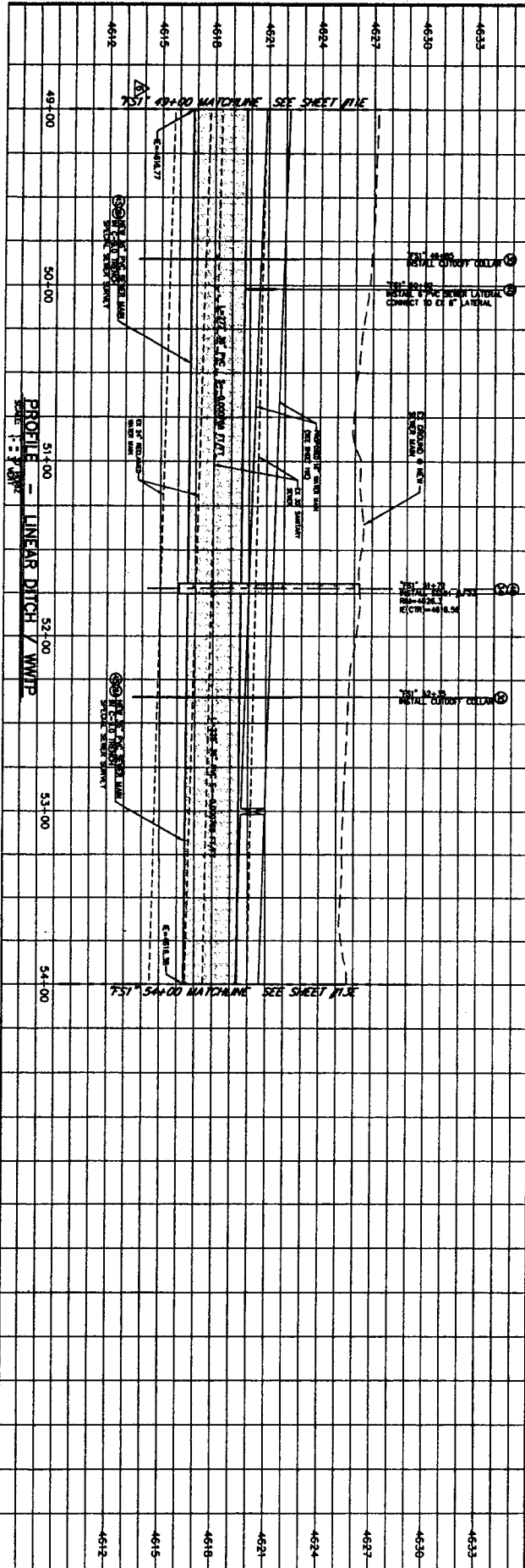
EASEMENT NOTES

1. EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF THE PROJECT.
 2. EASEMENT FOR INSTALLATION AND OPERATION OF THE PROJECT.
 3. EASEMENT FOR REMOVAL AND REPAIR OF THE PROJECT.
 4. EASEMENT FOR ACCESS TO THE PROJECT.

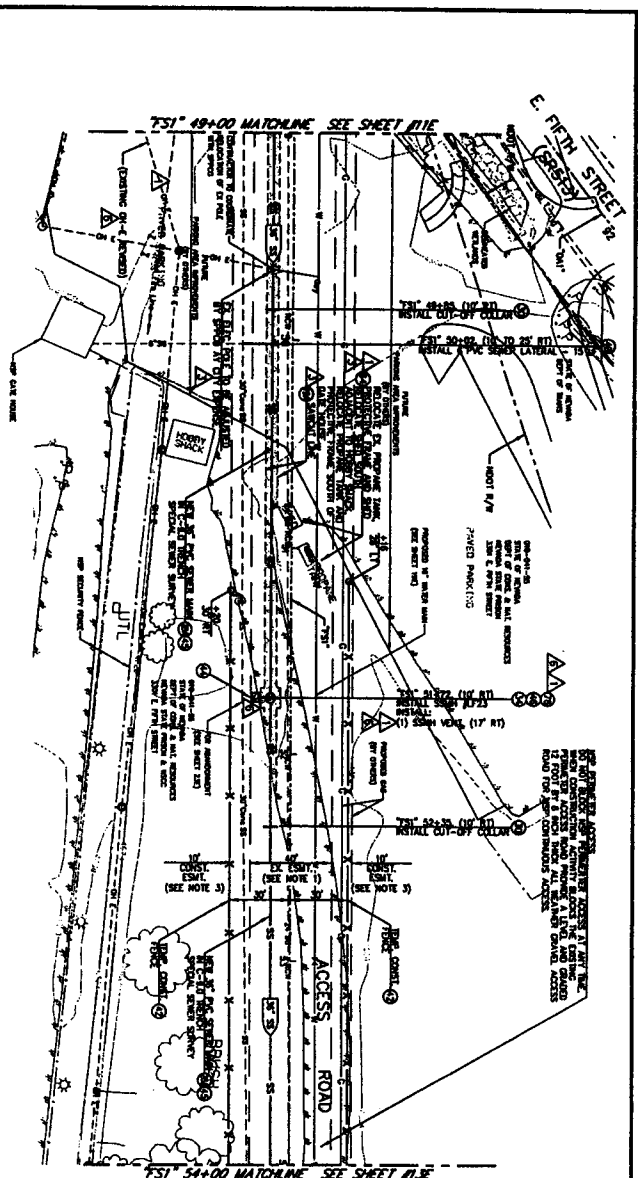
GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.

<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT NO. 00-6010 36" SANITARY SEWER RELOCATION "FS2" 46+50 TO "FS1" 49+00</p>		<p>REV. DATE DESCRIPTION BY APP'D</p> <p>1 5/2/07 ADDITION No. 1 GJV JOR</p> <p>2 5/2/07 ADDITION No. 2 GJV JOR</p> <p>3 5/2/07 CONFORMED PLAN SET GJV JOR</p> <p>4 5/4/07 PLAN CLARIFICATIONS JPS JOR</p>	<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2328 FAX: 867-2112</p> <p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>	<p>APPROVED BY: JOR DRAWN BY: JOR CHECKED BY: JOR DATE: 05/24/07 SCALE: (NORTH) 1" = 30'</p>
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PLAN - LINEAR DITCH / WWTP
 SCALE 1" = 30'

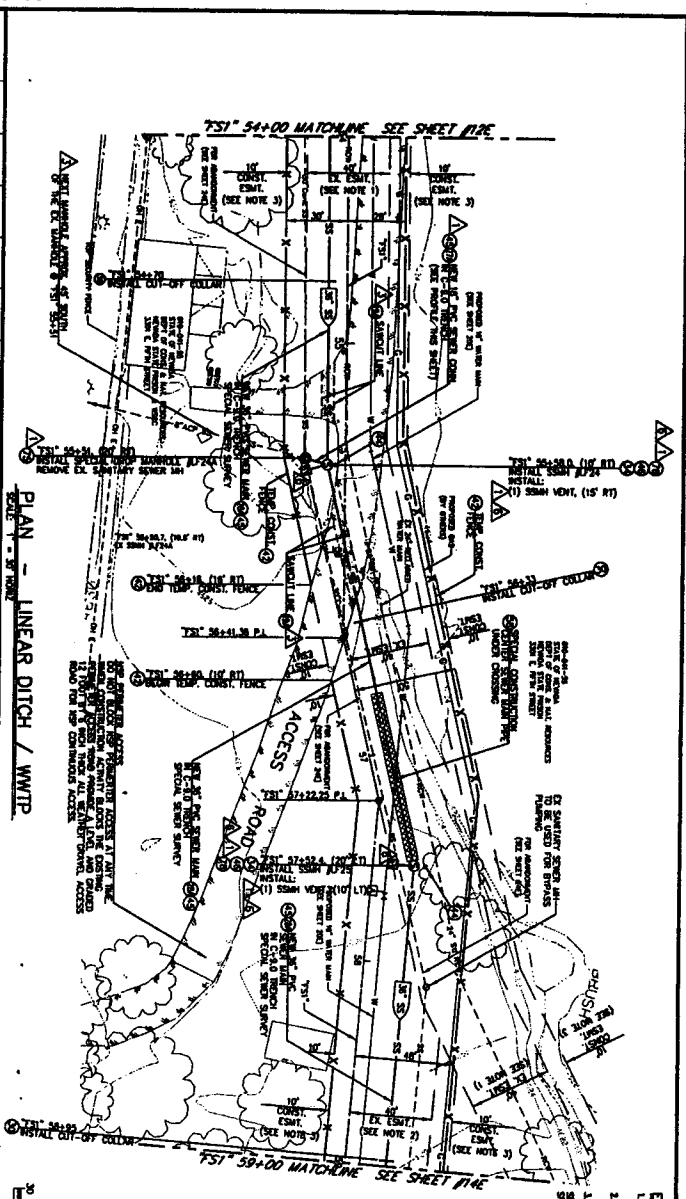
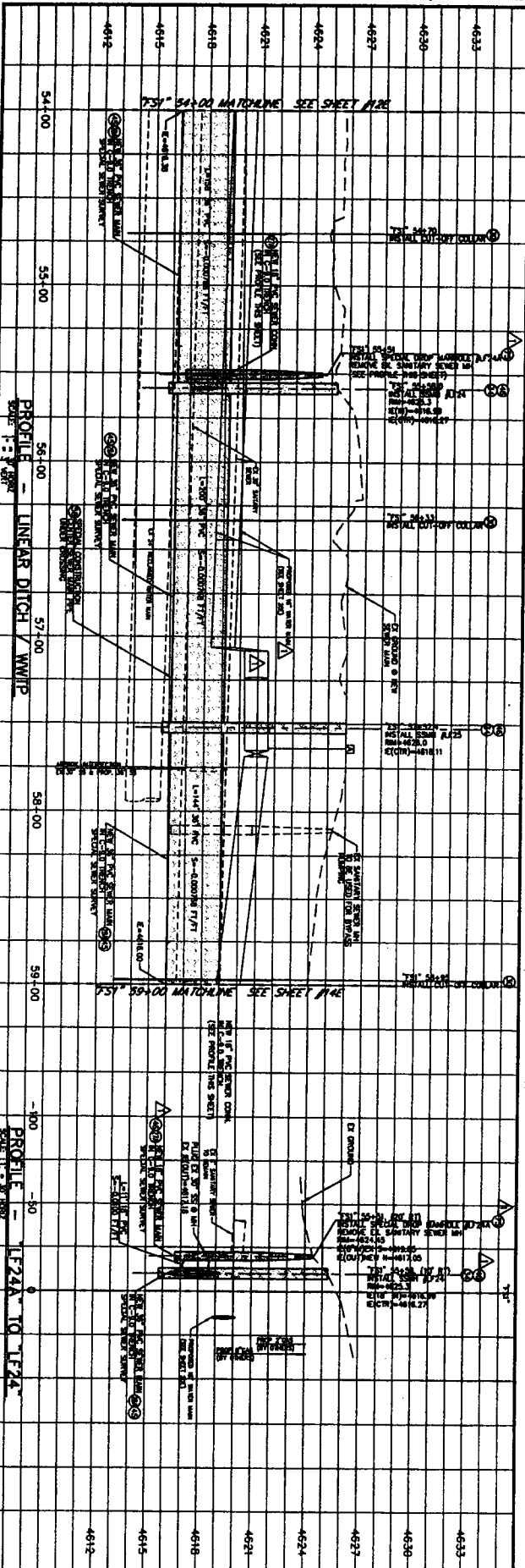


SCALE 1" = 30'

EASEMENT NOTES:
 1. CARSON CITY PROPOSED EASEMENT AND PORT OF WAY FOR UNDERGROUND UTILITY FACILITIES, BOX 344, PAGE 204.
 2. REPAIRMENT CONSTRUCTION EASEMENT, FILE NO. 2001-001.
 SEE OF 148 STATE LAND/GRASSLAND PROPERTY ACCESS OF THE SPECIFIC CONDITIONS FOR WORK WITHIN THE EASEMENT.

- CONSTRUCTION NOTES:**
- 1. LIMITS FOR SHALOY, AND REPLACEMENT OF EXISTING AT SHEET 12E SHALL BE FOR PREVIOUS PROPOSED CONSTRUCTION DETAIL C-343 (PROPOSED).
 - 2. CONTRACTOR TO INSTALL CONCRETE OUT-OF-COULTERS PER STA. DRAWING C-343 (PROPOSED).
 - 3. INSTALL 18" DIA. CONCRETE 12" THICK 24" DIA. DEPTH (MIN) PLATE TO SUPPORT LINE 18" DIA. UTILITY (PROPOSED) (MINIMUM 12" FROM EXISTING ROAD SURFACE AND 12" FROM EXISTING ROAD CURB). PROVIDE PROPERLY DETAILED CONNECTIONS TO EXISTING UTILITY.
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SHEET 12E OF 34	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-6010 36" SANITARY SEWER RELOCATION "FS3" 49+00 TO "FS1" 54+00	REV. DATE DESCRIPTION BY APP'D 5/25/07 ASSEMBLY No. 1 JLV JOR 5/25/07 ASSEMBLY No. 2 JLV JOR 6/1/07 PLAN CLARIFICATIONS JLV JOR		CARSON CITY PUBLIC WORKS DEPARTMENT 2505 BUTTE WAY CARSON CITY, NEVADA 89701 PH 867-2305 FAX 867-2112	DESIGNED BY: JLV DRAWN BY: JLV CHECKED BY: JLV DATE: 08-01-07 SCALE (HORIZ): 1" = 30' SCALE (VERT): 1" = 3' PLOT DATE: 08-01-07
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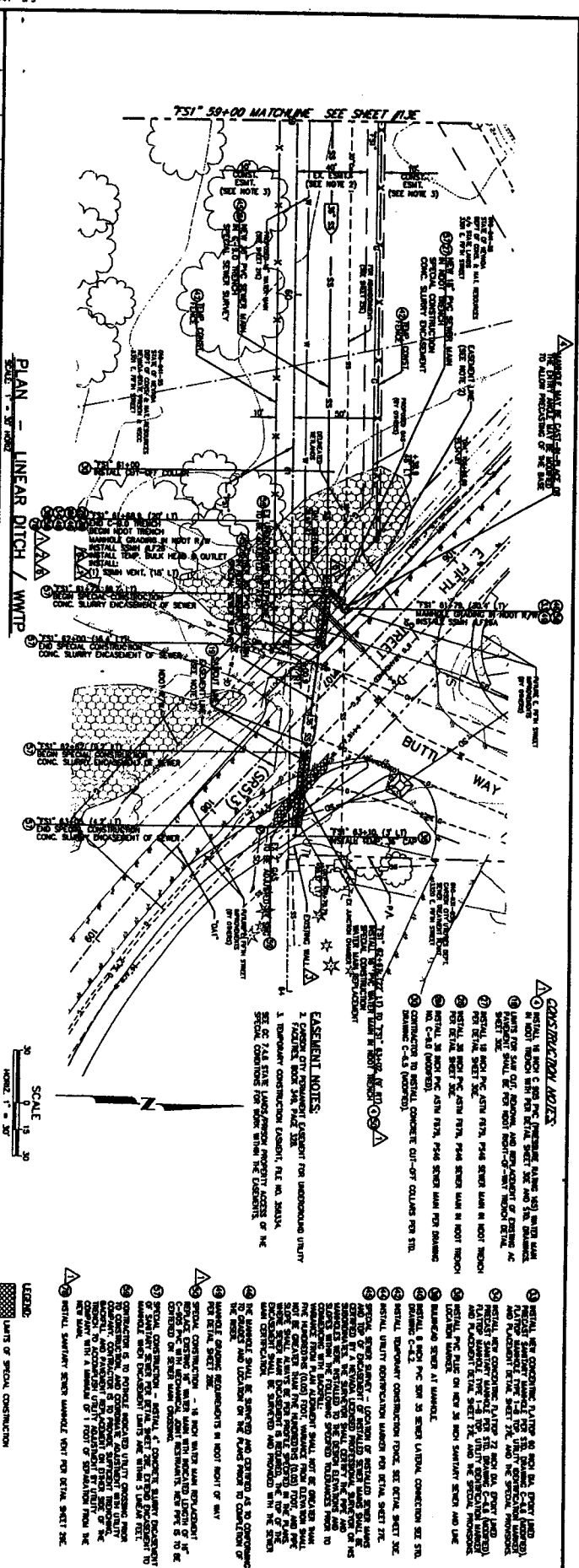
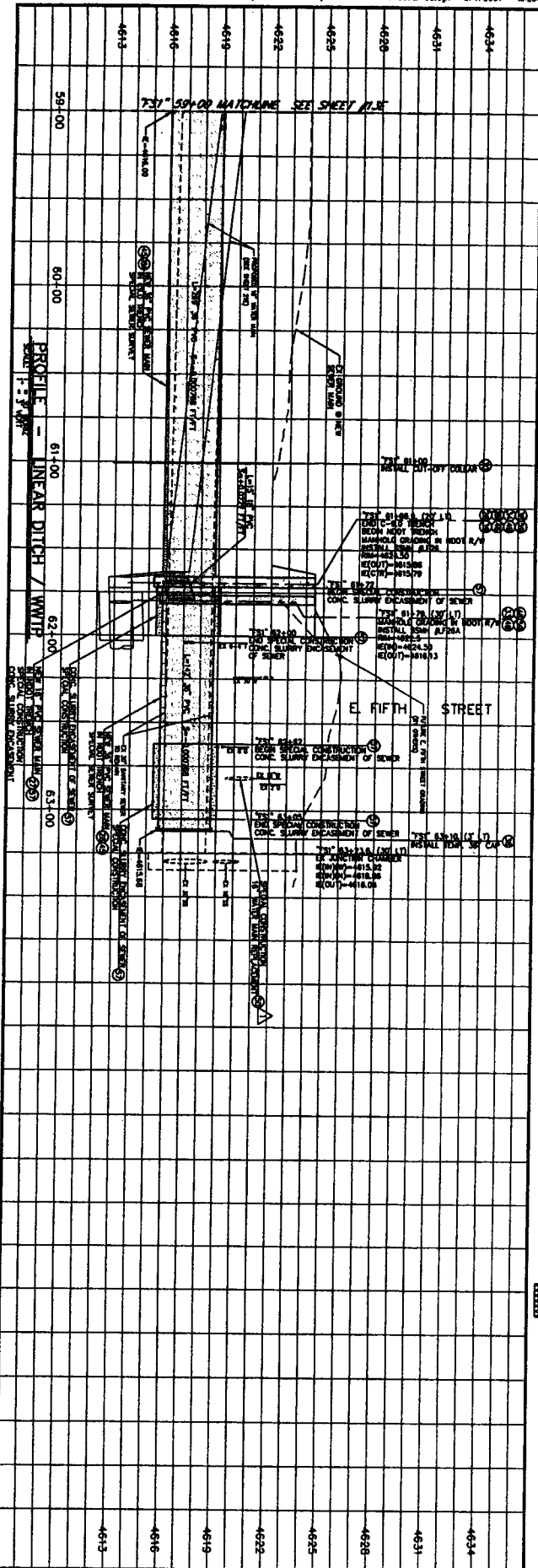
PLAN - LINEAR DITCH / WWTP

SCALE: 1" = 30'

CONSTRUCTION NOTES:

1. CARSON CITY PERMITS REQUIRED FOR EXCAVATION AND INSTALLATION OF EXISTING AND NEW SANITARY SEWER LINES AND FOR UNDERGROUND INSTALLATION OF EXISTING AND NEW SANITARY SEWER LINES. SEE PERMIT NO. 07-333 FOR DETAILS.
2. EXISTING SANITARY SEWER LINES SHALL BE RELOCATED TO THE NEW ALIGNMENT. SEE DETAIL SHEET C-11 FOR DETAILS.
3. EXISTING SANITARY SEWER LINES SHALL BE RELOCATED TO THE NEW ALIGNMENT. SEE DETAIL SHEET C-11 FOR DETAILS.
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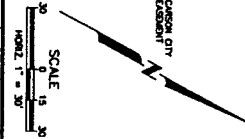
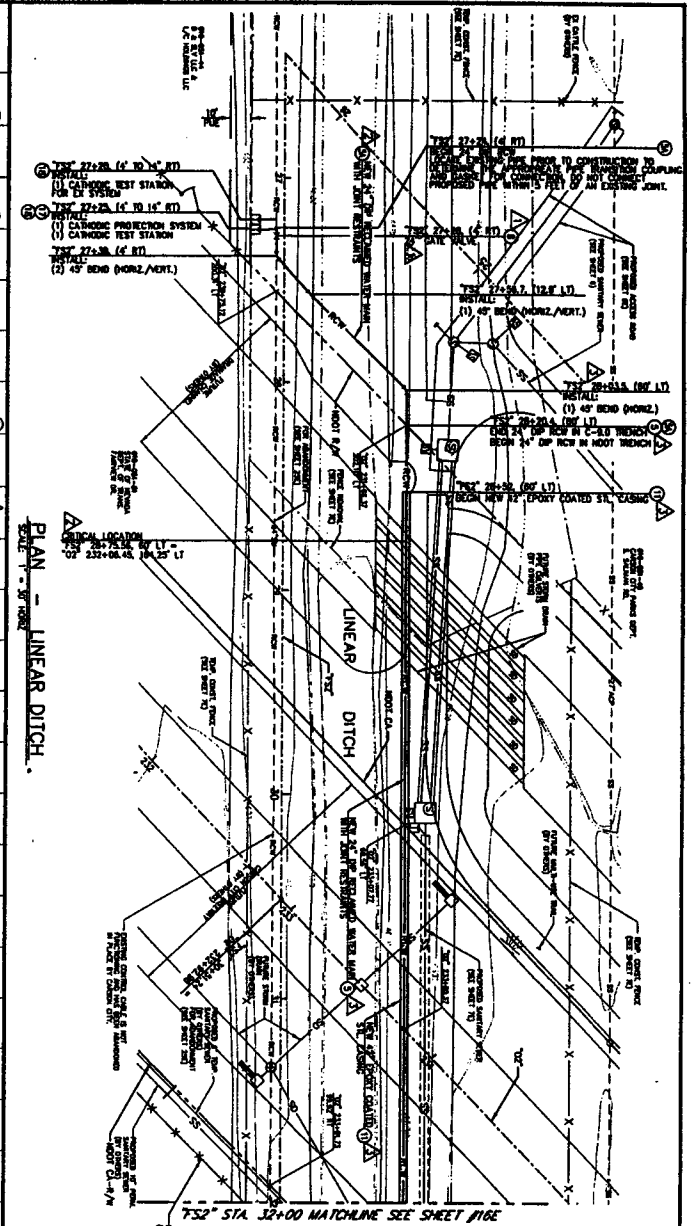
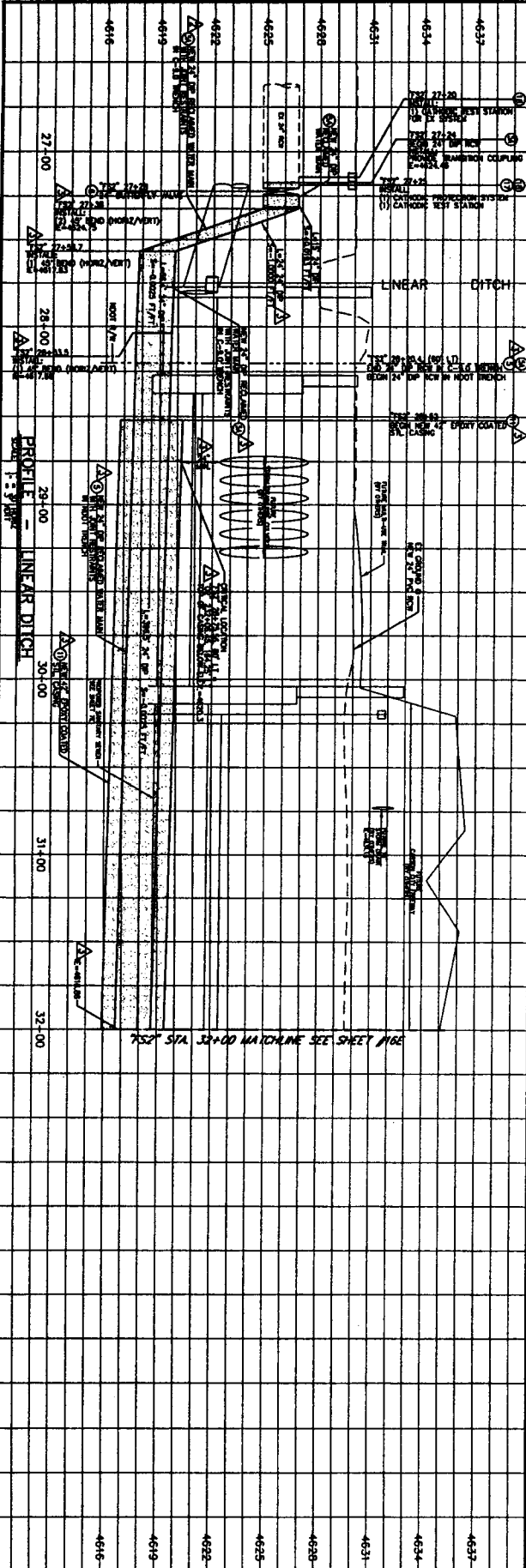
<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT NO. 00-801Q 36" SANITARY SEWER RELOCATION "FS1" 54+00 TO "FS1" 59+00</p>		<p>REV. DATE DESCRIPTION 1/25/07 APPROVED NO. 1 3/20/07 APPROVED NO. 2 5/1/07 PLAN CLARIFICATIONS</p>	<p>BY APP'D JY JOR JY JOR JY JOR</p>	<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTE WAY CARSON CITY, NEVADA 89701 PH 867-2386 FAX 867-2112</p>	<p>DESIGNED BY: JY CHECKED BY: JY DRAWN BY: JY SCALE: AS SHOWN SCALE DRAWN: 1" = 30' SCALE (VERT): 1" = 30' PLOT DATE: 08-29-07</p>
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- EASEMENT NOTES:**
1. EASEMENT FOR UNDERGROUND UTILITY.
 2. EASEMENT FOR CONCRETE SLURRY ENCASUREMENT OF SEWER.
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- CONSTRUCTION NOTES:**
1. INSTALL 36" SANITARY SEWER AT 10' DEPTH TO 63+00. SEE DETAIL SHEET 14E AND 14F FOR MANHOLE AND 18" CONCRETE PIPE. SEE DETAIL SHEET 14E AND 14F FOR 12" CONCRETE PIPE. SEE DETAIL SHEET 14E AND 14F FOR 8" CONCRETE PIPE.
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<p>14E of 34</p>		<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-8010</p>		<p>36" SANITARY SEWER RELOCATION FS1" 59+00 to FS1" 64+00</p>		<p>REV. DATE DESCRIPTION BY APP'D</p> <p>1 5/14/07 APPROVAL No. 1 GY JOR</p> <p>2 5/22/07 APPROVAL No. 2 GY JOR</p> <p>3 5/22/07 APPROVAL No. 3 GY JOR</p> <p>4 5/22/07 APPROVAL No. 4 GY JOR</p> <p>5 5/22/07 CONFIRMED PLAN SET GY JOR</p> <p>6 5/22/07 PLAN CLARIFICATIONS PJ JOR</p>		<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3306 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2386 FAX: 867-2112</p>		<p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>		<p>DESIGNED BY: GY DRAWN BY: GY CHECKED BY: JOR DATE: 08/01/07 SCALE: (HORIZ) 1"=30' SCALE: (VERT) 1"=3' PLOT DATE: 08-04-07</p>	
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PERMIT NO. 07-333



GENERAL NOTE:
 1. SEE ENCLOSED WATER OPERATING AND SHUTDOWNS AND REPAIRING SPECIFICATIONS SHEET 102.

- CONSTRUCTION NOTES:**
- 1. INSTALL 24" DIA. 200# RECLAIMED WATER MAIN WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER. INSTALL WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER. INSTALL WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER.
 - 2. INSTALL 24" DIA. 200# RECLAIMED WATER MAIN WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER. INSTALL WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER.
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 - 7. INSTALL 24" DIA. 200# RECLAIMED WATER MAIN WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER. INSTALL WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER.
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 - 10. INSTALL 24" DIA. 200# RECLAIMED WATER MAIN WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER. INSTALL WITH 10' MIN. BURIED DEPTH AND 10' MIN. COVER.

SHEET 15E
 OF 34

CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY
 PROJECT No. 00-6010
 24" RECLAIMED WATER MAIN
 "FS2" 26+40 TO "FS2" 32+00

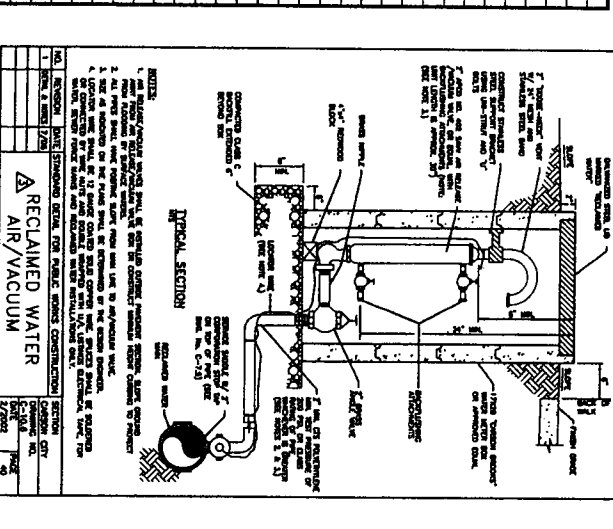
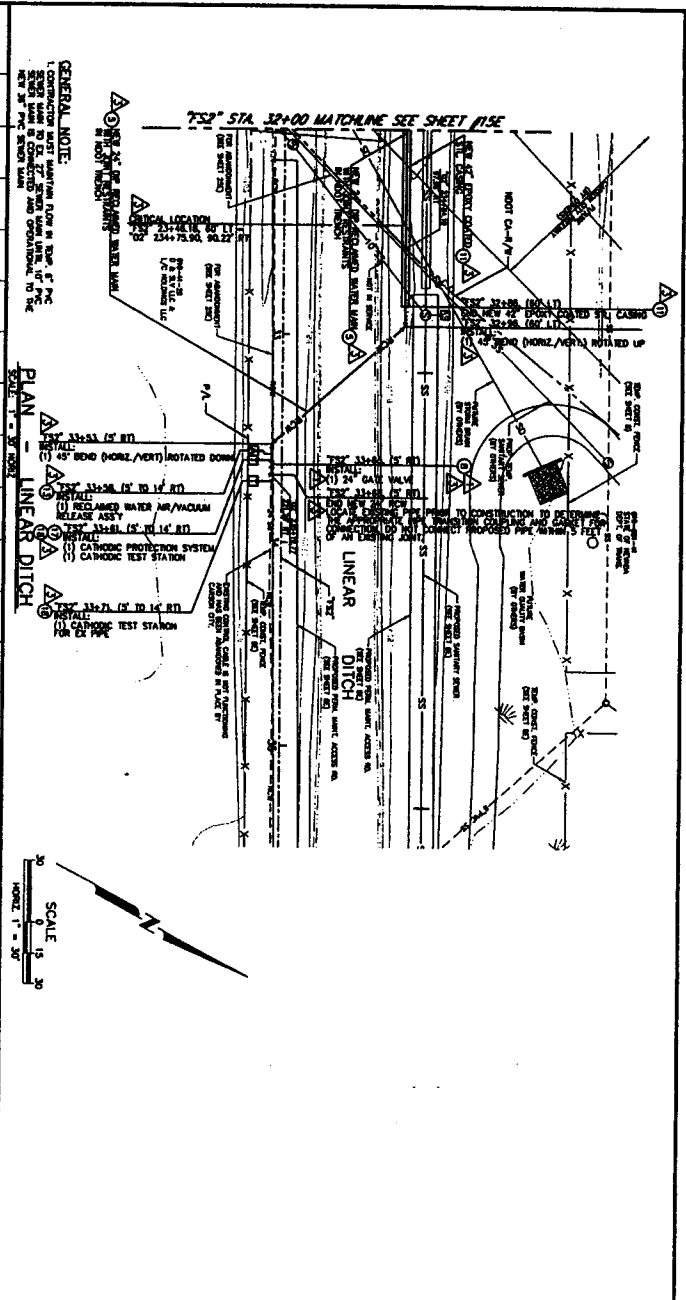
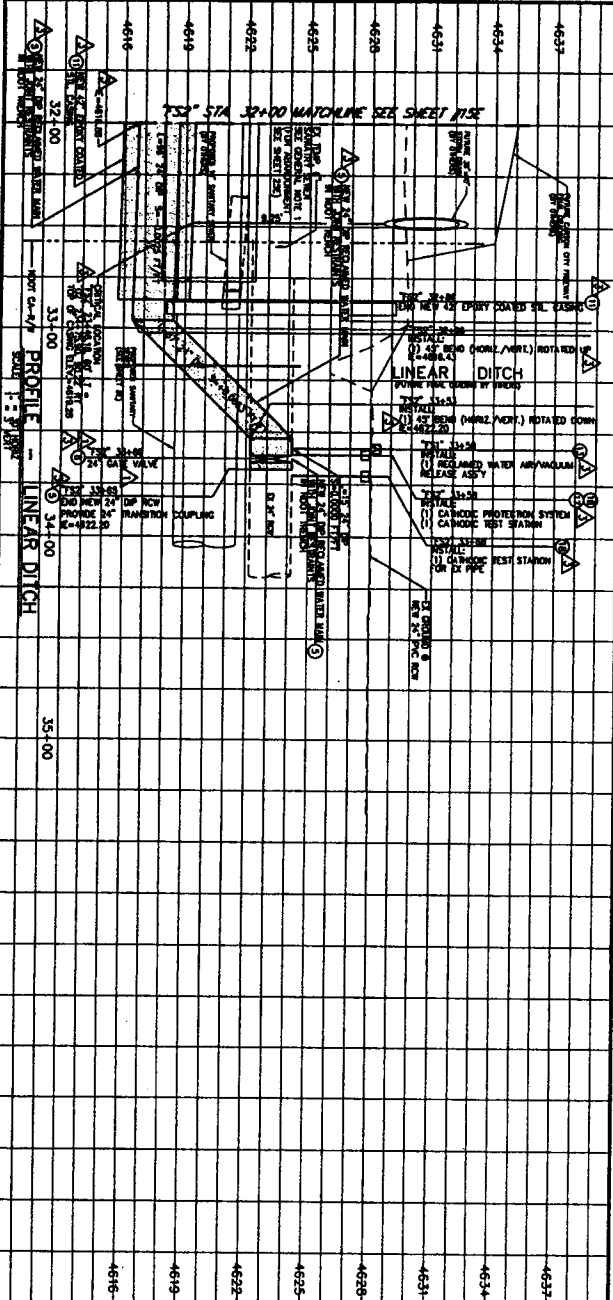
REV.	DATE	DESCRIPTION	BY	APP'D
1	5/7/07	ADDENDUM No. 1	AS	AS
2	5/22/07	ADDENDUM No. 2	AS	AS
3	5/25/07	CONFIRMED PLAN SET	AS	AS



CARSON CITY PUBLIC WORKS DEPARTMENT
 1508 BUTTE WAY CARSON CITY, NEVADA 89701
 PH: 867-2355 FAX: 867-2112

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

DESIGNED BY: JEM
 DRAWN BY: JEM
 CHECKED BY: JEM
 SCALE: HORIZ. 1"=50'
 SCALE: VERT. 1"=5'
 PLOT DATE: 06-21-07



CONSTRUCTION NOTES:

- RECLAIMED WATER OPERATIONS AND MAINTENANCE, AND NEARBY PUBLIC WORKS.
- ALL CONSTRUCTION ACTIVITIES INVOLVING THE EXISTING RECLAIMED WATER MAIN SHALL BE COORDINATED WITH CARSON CITY PUBLIC WORKS.
- SEE SPECIAL CONSTRUCTIONS OF T&E FOR SHUT DOWN RESTRICTIONS.
- SAFETY BARRIERS SHALL BE INSTALLED IN WRITING TO AND AUTHORIZED IN WRITING FROM THE ENGINEER. SAFETY BARRIERS SHALL BE INSTALLED IN WRITING FROM THE ENGINEER AND NOT BE PLACED IN PLACE UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE SAFETY PLAN. SAFETY BARRIERS SHALL BE INSTALLED IN WRITING FROM THE ENGINEER AND NOT BE PLACED IN PLACE UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE SAFETY PLAN.
- THE EXISTING MAIN IS TO BE REPAIRED, REINSTALLED, AND RECLAIMED WATER MAIN SHALL BE INSTALLED IN WRITING FROM THE ENGINEER AND NOT BE PLACED IN PLACE UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE SAFETY PLAN.
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- THE EXISTING MAIN IS TO BE REPAIRED, REINSTALLED, AND RECLAIMED WATER MAIN SHALL BE INSTALLED IN WRITING FROM THE ENGINEER AND NOT BE PLACED IN PLACE UNTIL THE ENGINEER HAS REVIEWED AND APPROVED THE SAFETY PLAN.

CARSON CITY FREeway PHASE 2A
 UTILITY RELOCATIONS
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY
 PROJECT No. 00-601Q
 24" RECLAIMED WATER MAIN
 "FS2" 32+00 TO "FS2" 35+00

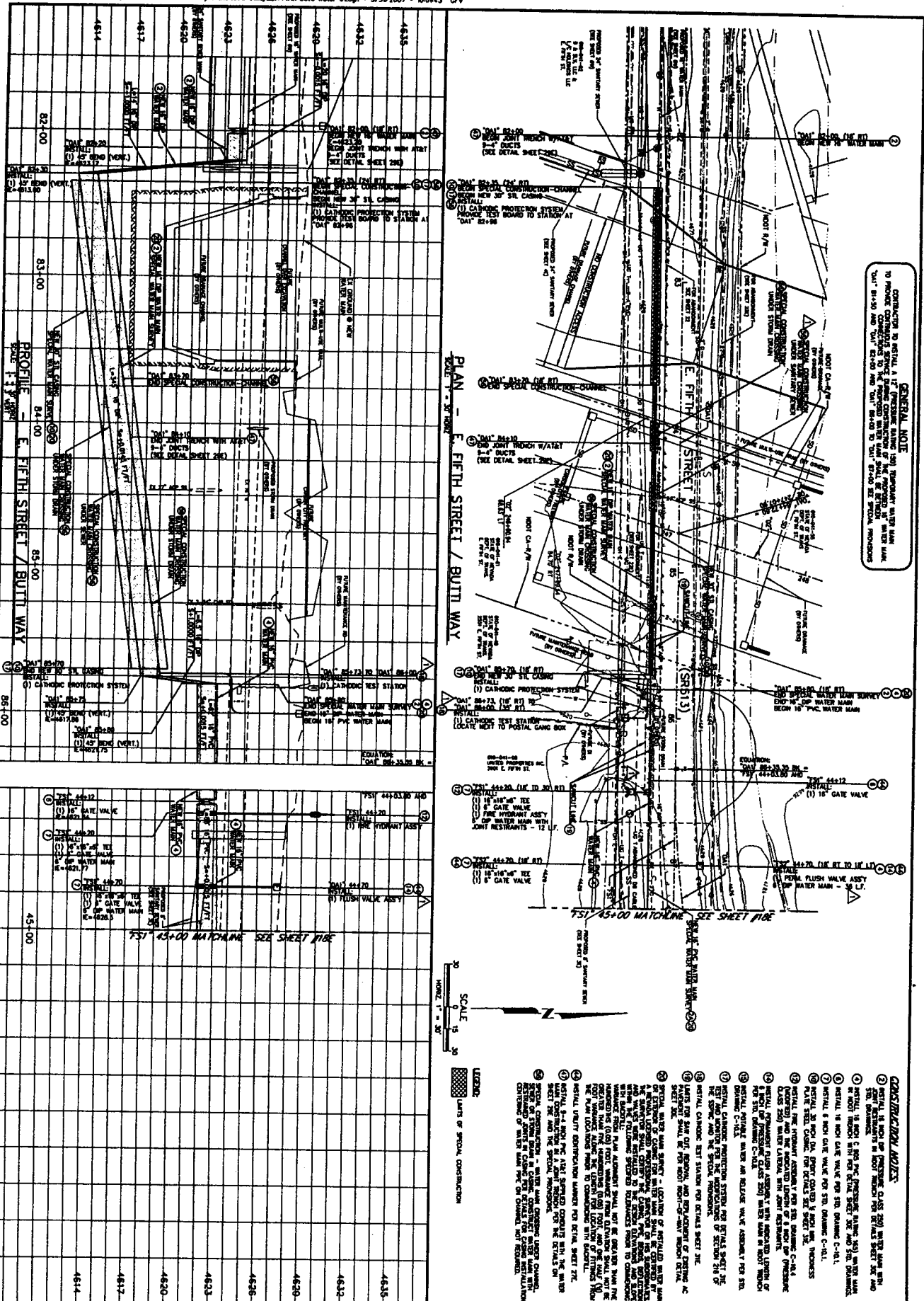
REV.	DATE	DESCRIPTION	BY	APP'D
1	5/22/07	APPROVED FOR CONSTRUCTION	SPV	JDK
2	5/22/07	CONFIRMED PLAN SET	SPV	JDK

CARSON CITY PUBLIC WORKS DEPARTMENT
 3508 BUTTE WAY CARSON CITY, NEVADA 89701
 PH 867-2385 FAX 867-2112

DESIGNED BY: JG
 DRAWN BY: JG
 CHECKED BY: JG
 DWG NO.: 00-601Q-02

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

SCALE (HORIZ.): 1" = 30'
 SCALE (VERT.): 1" = 3'
 PLOT DATE: 06-01-07



GENERAL NOTE
 CONSTRUCTION TO INSTALL A 16" PRESSURE RATING 150# REINFORCED WATER MAIN WITH PROTECTIVE COATING TO BE PROVIDED WITH MAIN SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CARSON CITY AND THE STATE OF NEVADA AND SHALL BE TO THE CITY OF CARSON CITY SPECIAL PROVISIONS.

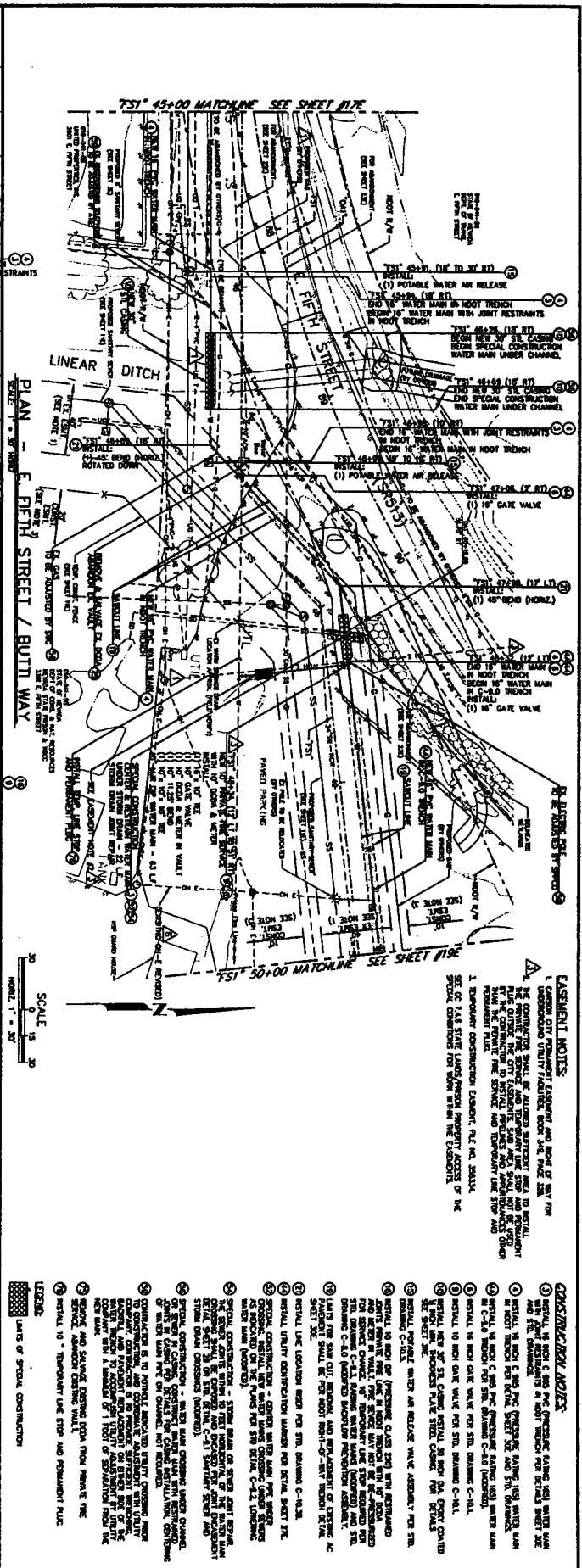
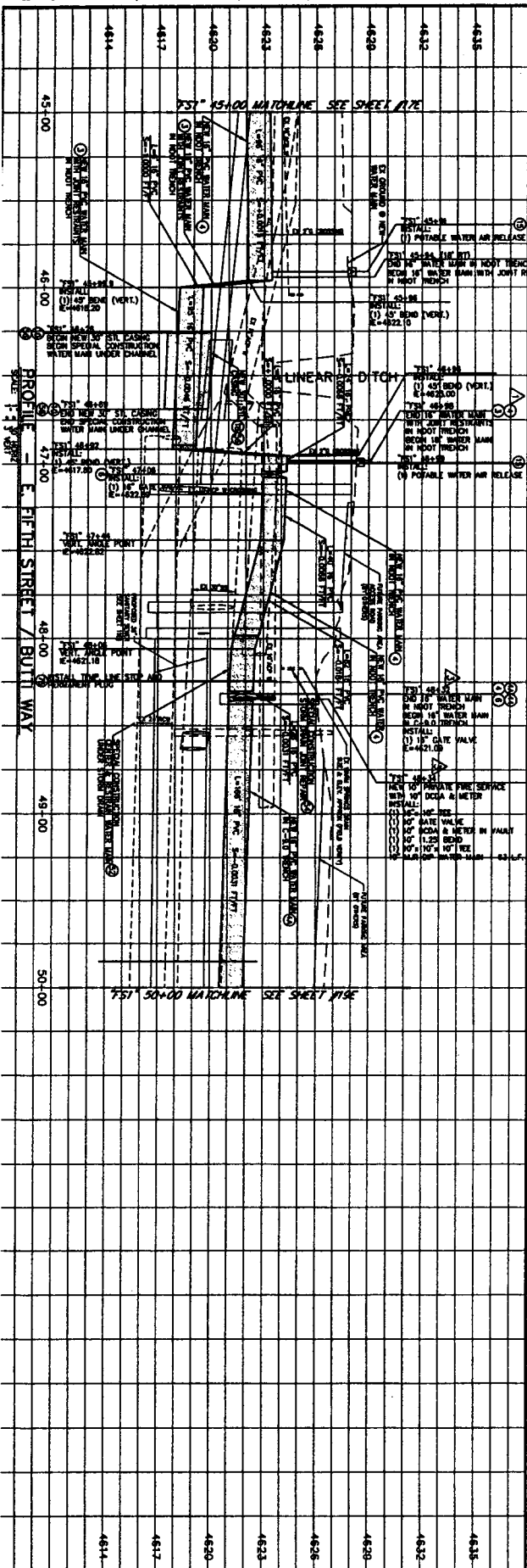
PLAN - E. FIFTH STREET / BUTT WAY

SCALE: 1" = 30'
 NORTH

LEGEND
 LIMITS OF SPECIAL CONSTRUCTION

- CONSTRUCTION NOTES:**
- INSTALL 16" 150# PRESSURE RATING CLASS 200 WATER MAIN WITH PROTECTIVE COATING TO BE PROVIDED WITH MAIN SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CARSON CITY AND THE STATE OF NEVADA AND SHALL BE TO THE CITY OF CARSON CITY SPECIAL PROVISIONS.
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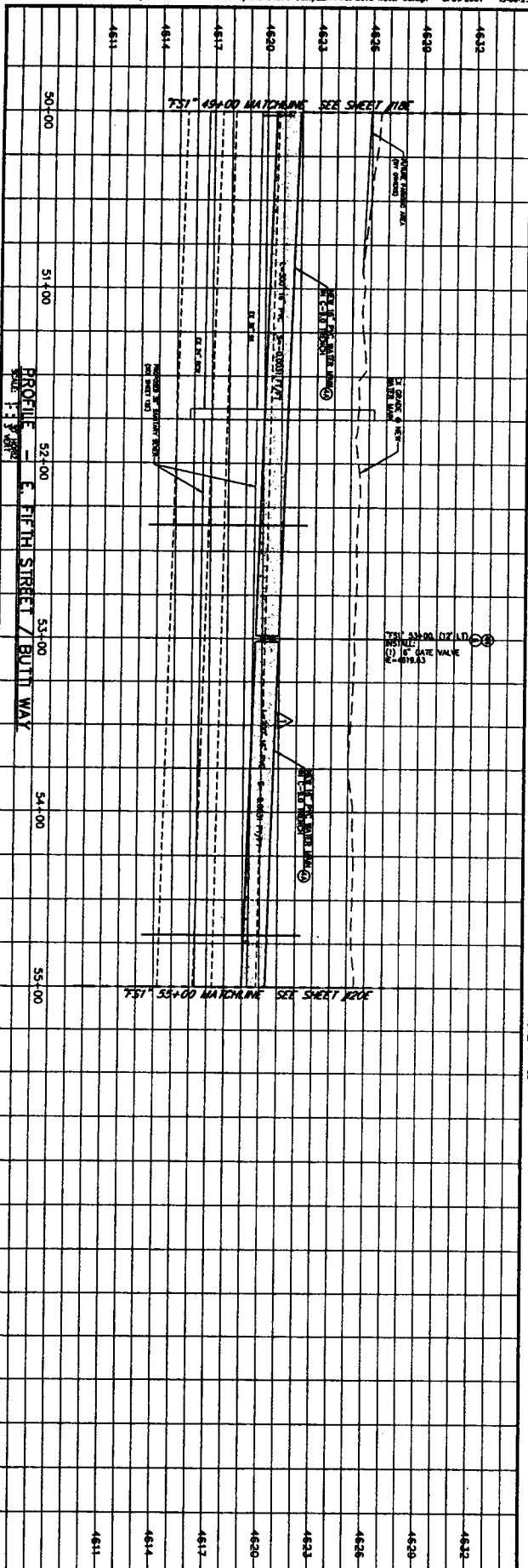
CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREeway EAST, LINEAR DITCH TO BUTT WAY PROJECT No. 00-8010 16" WATER MAIN "0A1" 81+50 TO "FS1" 45+00		REV. DATE DESCRIPTION BY APP'D 1/2/07 APPROVAL No. 1 2/2/07 CONFORMED PLAN SET	DESIGNED BY: JZ DRAWN BY: JZ CHECKED BY: JZ SCALE (HORIZONTAL): 1" = 30' SCALE (VERTICAL): 1" = 2' PLOT DATE: 08-01-07
PERMIT NO. 07-333		PUBLIC WORKS DEPARTMENT 3308 BUTT WAY CARSON CITY, NEVADA 89701 FAX: 867-2388 THE LOUIS BERGER GROUP INC. LAS VEGAS, NEVADA	SHEET 17E OF 34



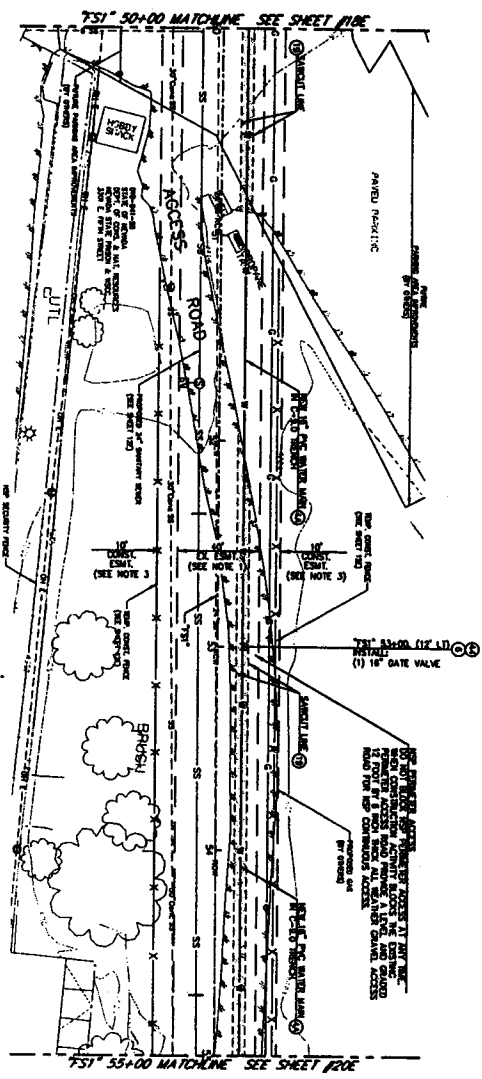
EASEMENT NOTES:
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE PROPERTY OWNERS AND THE CITY OF CARSON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE PROPERTY OWNERS AND THE CITY OF CARSON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EASEMENTS AND RIGHTS OF WAY FROM THE PROPERTY OWNERS AND THE CITY OF CARSON.

- CONSTRUCTION NOTES:**
- INSTALL 16" DIA. 16" THICK PRECAST CONCRETE WATER MAIN WITH 1" THICK GASKETED JOINTS AND 1" THICK GASKETED JOINTS.
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<p>PERMIT NO. 07-333</p>		<p>18E 34</p>		<p>CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREeway EAST, LINEAR DITCH TO BUTTI WAY PROJECT No. 00-8010 16" WATER MAIN "FS1" 45+00 TO "FS1" 50+00</p>		<p>REV. DATE DESCRIPTION BY APP'D</p> <table border="1"> <tr> <td>1</td> <td>5/7/07</td> <td>APPROVAL IN 1</td> <td>BY</td> <td>APP'D</td> </tr> <tr> <td>2</td> <td>5/29/07</td> <td>APPROVAL IN 2</td> <td>BY</td> <td>APP'D</td> </tr> <tr> <td>3</td> <td>5/29/07</td> <td>CONFORMED PLAN SET</td> <td>BY</td> <td>APP'D</td> </tr> <tr> <td>4</td> <td>4/1/07</td> <td>PLAN CLARIFICATIONS</td> <td>BY</td> <td>APP'D</td> </tr> </table>		1	5/7/07	APPROVAL IN 1	BY	APP'D	2	5/29/07	APPROVAL IN 2	BY	APP'D	3	5/29/07	CONFORMED PLAN SET	BY	APP'D	4	4/1/07	PLAN CLARIFICATIONS	BY	APP'D	<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3300 BUTTI WAY CARSON CITY, NEVADA 89701 PH. 867-2366 FAX: 867-2112</p> <p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p>		<p>DESIGNED BY: JLR DRAWN BY: JCY CHECKED BY: JCY PWD NO. 07-00-000-01 SCALE (HORIZ.): 1"=30' SCALE (VERT.): 1"=30' PLOT DATE: 06-28-07</p>	
1	5/7/07	APPROVAL IN 1	BY	APP'D																											
2	5/29/07	APPROVAL IN 2	BY	APP'D																											
3	5/29/07	CONFORMED PLAN SET	BY	APP'D																											
4	4/1/07	PLAN CLARIFICATIONS	BY	APP'D																											



PLAN - E FIFTH STREET / BUTTE WAY

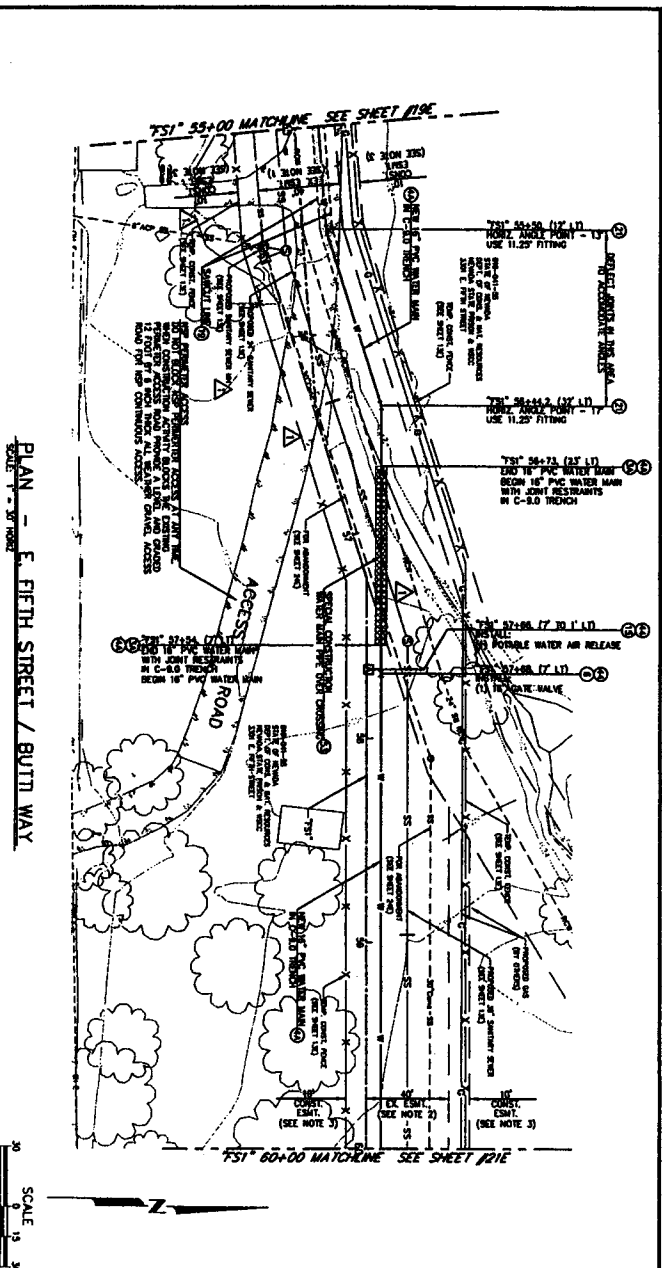
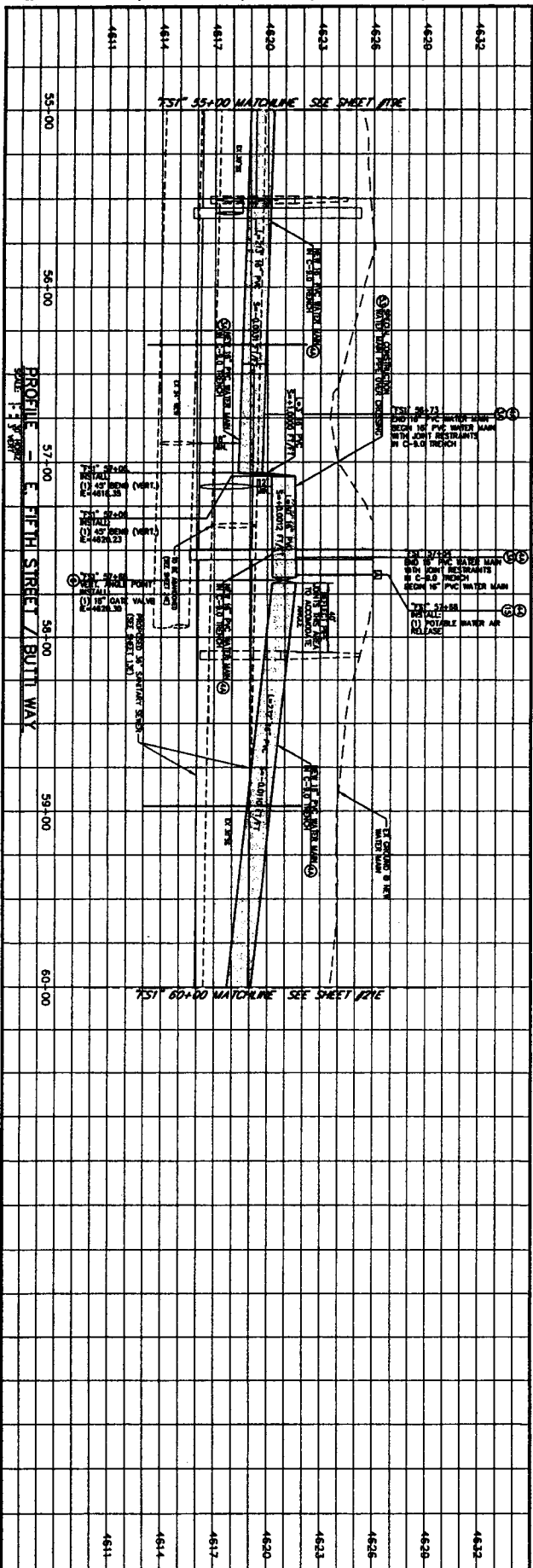


SCALE 1" = 30'

CONSTRUCTION NOTES:
 1. INSTALL IN 30" C AND 30" PVC PRESSURE MAINING AND 30" WATER MAIN FOR 500' RUNNING C-141 (ORDERED).
 2. INSTALL IN 30" GATE VALVE FOR 500' RUNNING C-141.
 3. INSTALL 16" WATER MAIN AND 16" WATER MAIN FOR 500' RUNNING C-141.
 4. INSTALL UTILITY DISTRIBUTION MAINS FOR REMAINING 500'.

CONSTRUCTION NOTES:
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 2. INSTALL IN 30" GATE VALVE FOR 500' RUNNING C-141.
 3. INSTALL 16" WATER MAIN AND 16" WATER MAIN FOR 500' RUNNING C-141.
 4. INSTALL UTILITY DISTRIBUTION MAINS FOR REMAINING 500'.

SHEET 19E 34	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-601Q 16" WATER MAIN "FS1" 50+00 to "FS1" 55+00		REV. DATE DESCRIPTION 1 3/27/07 APPROVAL No. 1 2 5/23/07 CONFIRMED PLAN SET	BY APP'D LAB JRM LAB JRM		CARSON CITY PUBLIC WORKS DEPARTMENT 3306 BUTTE WAY CARSON CITY, NEVADA 89709 PH: 867-2388 FAX: 867-2112	DESIGNED BY: JRM DRAWN BY: JRM CHECKED BY: JRM PWC NO. 00-700-040-010 SCALE: 1" = 30' SCALE: 1" = 30' PLOT DATE: 08-21-07
	THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA						

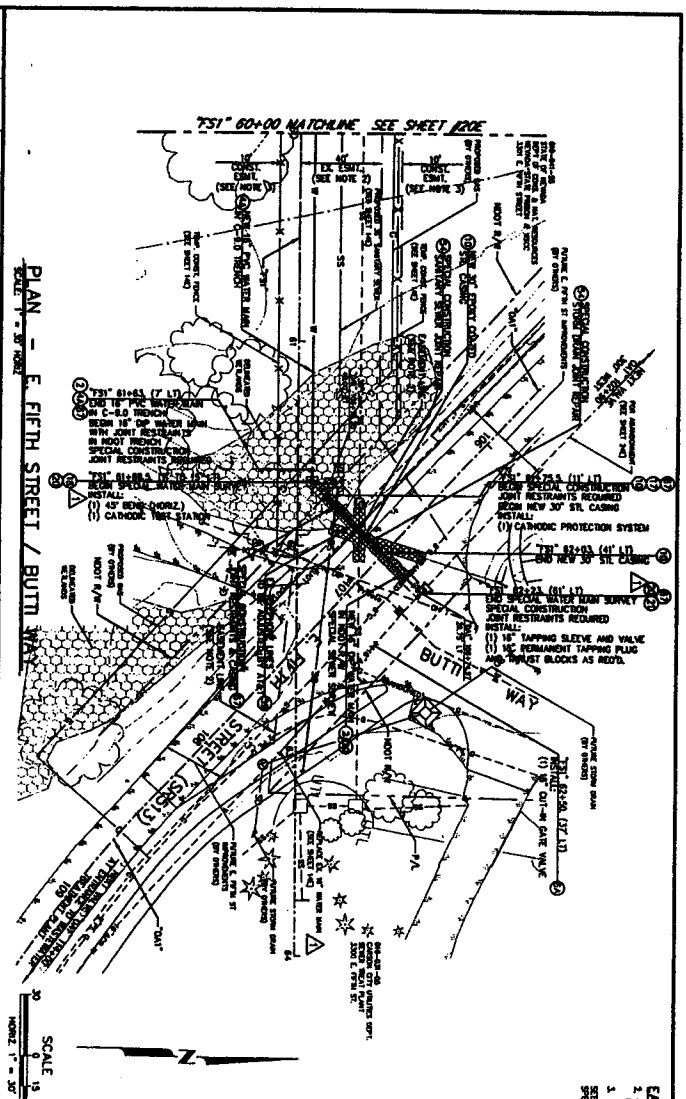
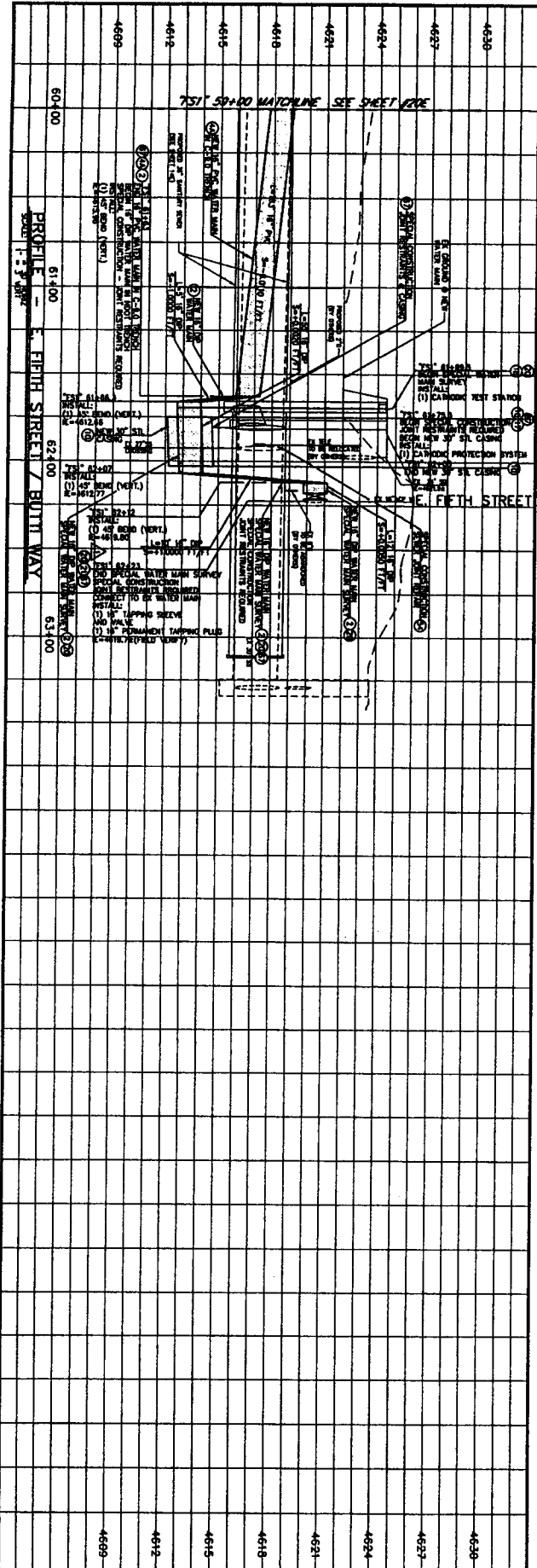


PLAN - E. FIFTH STREET / BUTTI WAY
 SCALE 1" = 20'

- CONSTRUCTION NOTES:**
- INSTALL IN 30" & 42" PVC (PERMANENT ALLOW 18") WATER MAIN WITH JOINT RESTRAINTS IN C-15 TRENCH FOR 30" DRAINAGE C-15.
 - INSTALL IN 30" & 42" PVC (PERMANENT ALLOW 18") WATER MAIN WITH JOINT RESTRAINTS IN C-15 TRENCH FOR 30" DRAINAGE C-15.
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- EASEMENT NOTES:**
- CARSON CITY PERMIT REQUIRED FOR ANY WORK IN UNDERGROUND UTILITY FACILITIES. SEE PAGE 204.
 - CARSON CITY PERMIT REQUIRED FOR UNDERGROUND UTILITY FACILITIES. SEE PAGE 204.
 - TEMPORARY CONSTRUCTION EASEMENT, SEE PG. 204.
 - SEE PG. 204 FOR CONSTRUCTION EASEMENT LOCATIONS OF THE PROJECT. CONTACT THE CARSON CITY UTILITY DEPARTMENT FOR MORE INFORMATION.

SHEET 20E OF 34	CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTI WAY PROJECT No. 00-8010 16" WATER MAIN "FS1" 55+00 TO "FS1" 60+00	REV. DATE DESCRIPTION BY APP'D		CARSON CITY PUBLIC WORKS DEPARTMENT 3508 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 867-2350 FAX: 867-8112	DESIGNED BY: JED
		5/2/07 5/25/07			MADDALA No. 1 CONFIRMED PLAN SET



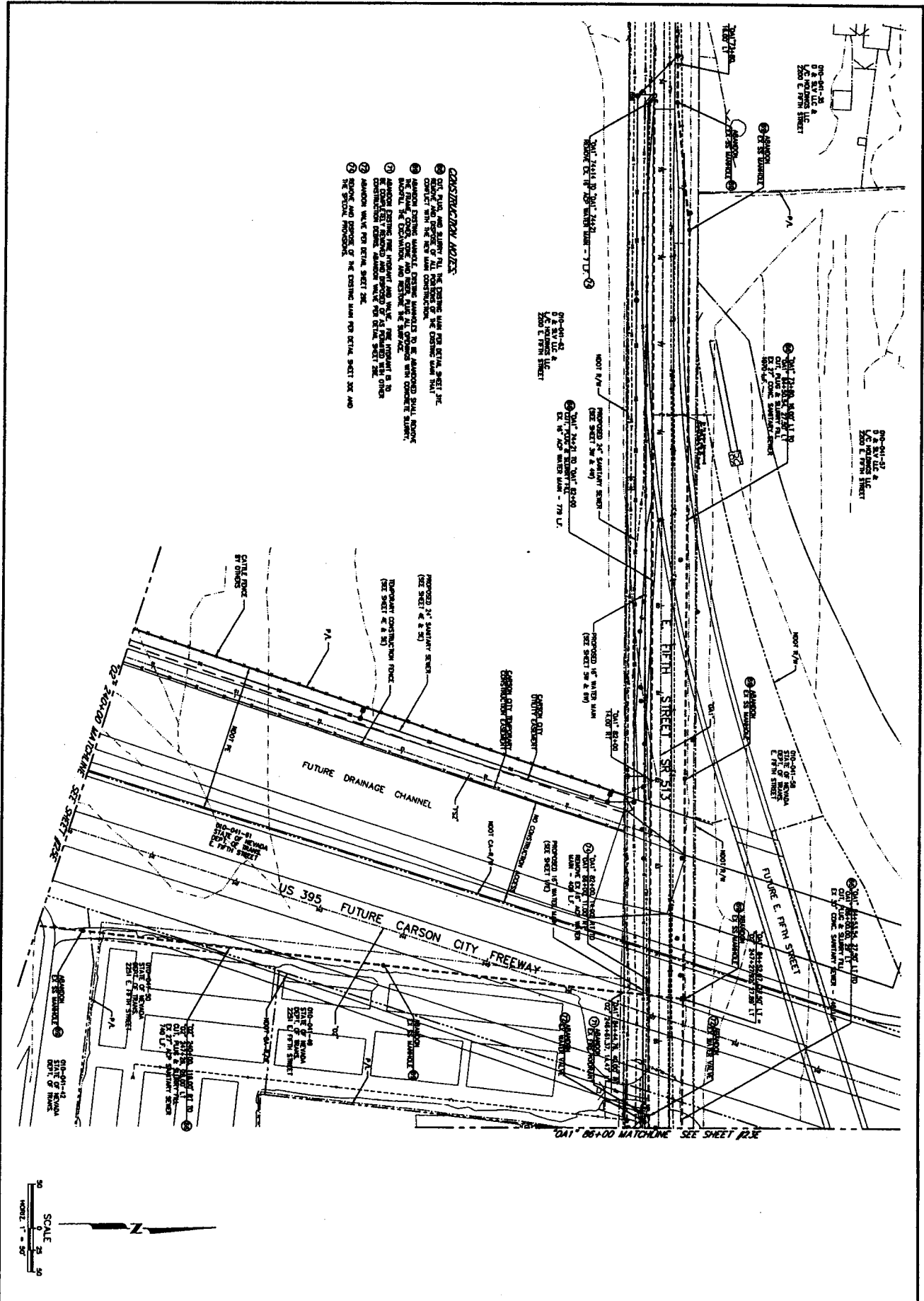
EASIMENT NOTES:

1. EASIMENT FOR UNDERGROUND UTILITY
2. FACTORS OF SAFETY SHALL BE MAINTAINED AT ALL TIMES
3. TEMPORARY CONSTRUCTION CASUALTY, FIRE AND BURGLARY
4. SET OF 74.5 STATE LAMINATION PROPERTY ACCESS OF THE SPECIAL CONDITIONS FOR WORK WITHIN THE EASIMENT

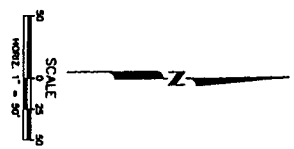
CONSTRUCTION NOTES:

1. INSTALL IN ACCORD WITH PREVIOUS CLASS 2000 WATER MAIN WITH 10% OVERLAP
2. FACTORS OF SAFETY SHALL BE MAINTAINED AT ALL TIMES
3. TEMPORARY CONSTRUCTION CASUALTY, FIRE AND BURGLARY
4. SET OF 74.5 STATE LAMINATION PROPERTY ACCESS OF THE SPECIAL CONDITIONS FOR WORK WITHIN THE EASIMENT
5. SPECIAL CONSTRUCTION - STORM DRAIN ON STOPS JOINT SPREAD
6. SPECIAL CONSTRUCTION - STORM DRAIN ON STOPS JOINT SPREAD
7. SPECIAL CONSTRUCTION - STORM DRAIN ON STOPS JOINT SPREAD
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20. SPECIAL CONSTRUCTION - STORM DRAIN ON STOPS JOINT SPREAD

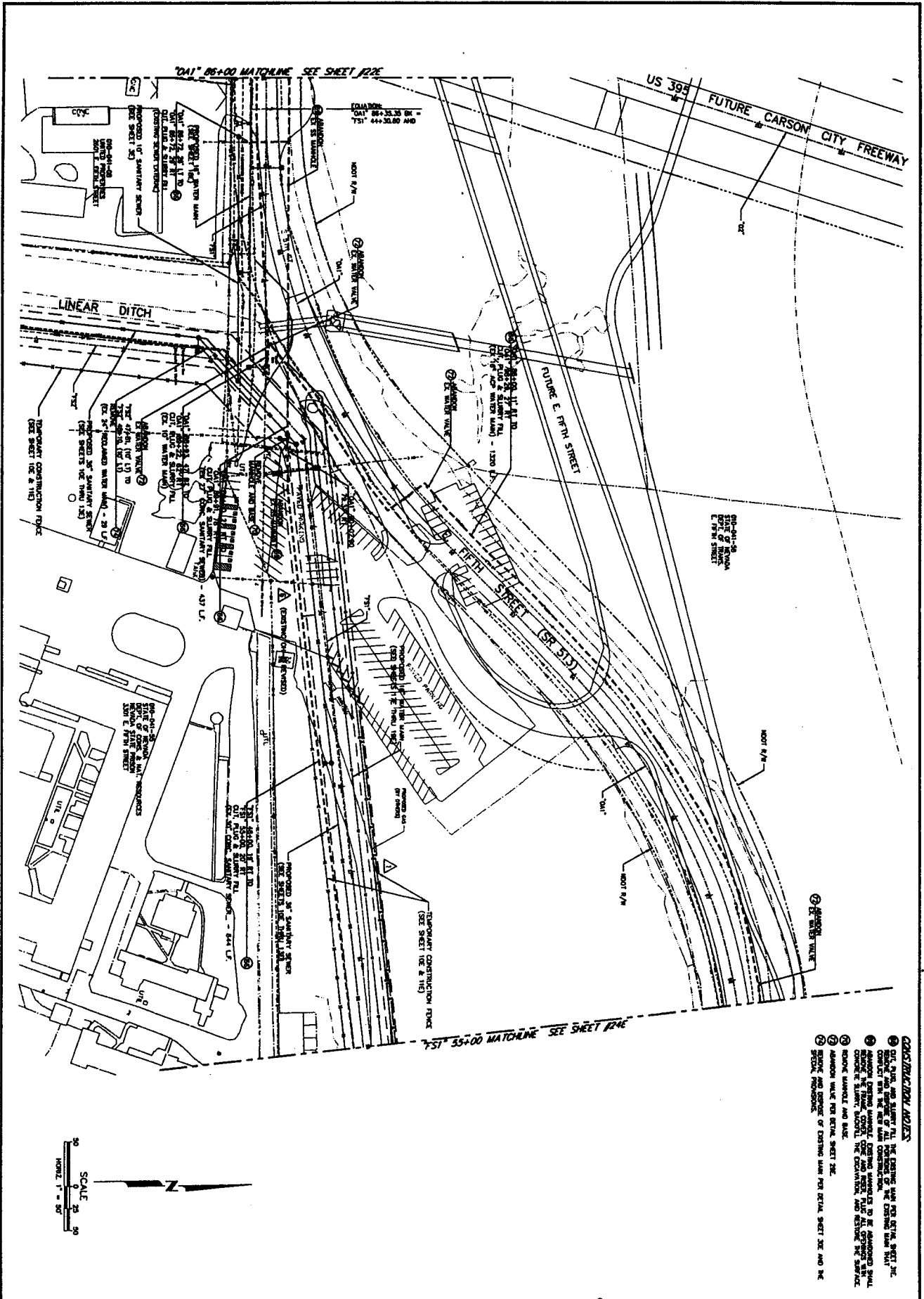
SHEET 21E OF 34	CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTT WAY PROJECT No. 00-6010 "FS1" 60+00 to "FS1" 64+00	REV. DATE DESCRIPTION 1 5/31/07 APPROVED PLAN SET	BY APP'D [Signature] [Signature]		PUBLIC WORKS DEPARTMENT 3305 BUTT WAY CARSON CITY, NEVADA 89701 PH: 867-3355 FAX: 867-2112	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE: [Date] SCALE: [Scale] DRAWN BY: [Signature]
		PERMIT NO. 07-333	THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA			



- CONSTRUCTION NOTES:**
1. ALL UTILITIES SHALL BE RELOCATED TO THE EAST SIDE OF THE FUTURE CARSON CITY FREEWAY.
 2. ALL UTILITIES SHALL BE RELOCATED TO THE EAST SIDE OF THE FUTURE CARSON CITY FREEWAY.
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 9. ALL UTILITIES SHALL BE RELOCATED TO THE EAST SIDE OF THE FUTURE CARSON CITY FREEWAY.
 10. ALL UTILITIES SHALL BE RELOCATED TO THE EAST SIDE OF THE FUTURE CARSON CITY FREEWAY.



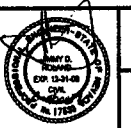
SHEET 22E OF 34	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-8010 UTILITY REMOVAL/ABANDONMENT PLAN	REV. DATE DESCRIPTION BY APP'D 1 5/31/07 COMPLETED PLAN SET SPV JZ		CARSON CITY PUBLIC WORKS DEPARTMENT 3508 BUTTE WAY CARSON CITY, NEVADA 89701 PH 867-2355 FAX 867-2112	DRAWN BY: JCY CHECKED BY: JZ DATE: 5/31/07 SCALE (HORIZ): 1"=50' SCALE (VERT): NONE PLOT DATE: 08-01-07
	PERMIT NO. 07-333				



- CONSTRUCTION NOTES**
1. UTIL, GAS, AND WATER PL. THE EXISTING MAIN FOR DETAIL SHEET 202.
 2. REMOVE AND RELOCATE ALL EXISTING UTILITIES TO THE EXISTING MAIN MAIN.
 3. REMOVE EXISTING WATER MAINS TO BE ABANDONED SHALL BE MARKED WITH CONCRETE SLABS, SIGNAL THE EXISTENCE, AND REMOVE THE SERVICE.
 4. REMOVE WATER MAINS.
 5. ABANDON WATER MAIN PER DETAIL SHEET 202.
 6. REMOVE AND RELOCATE EXISTING MAIN PER DETAIL SHEET 202 AND THE SERVICE MAINS.

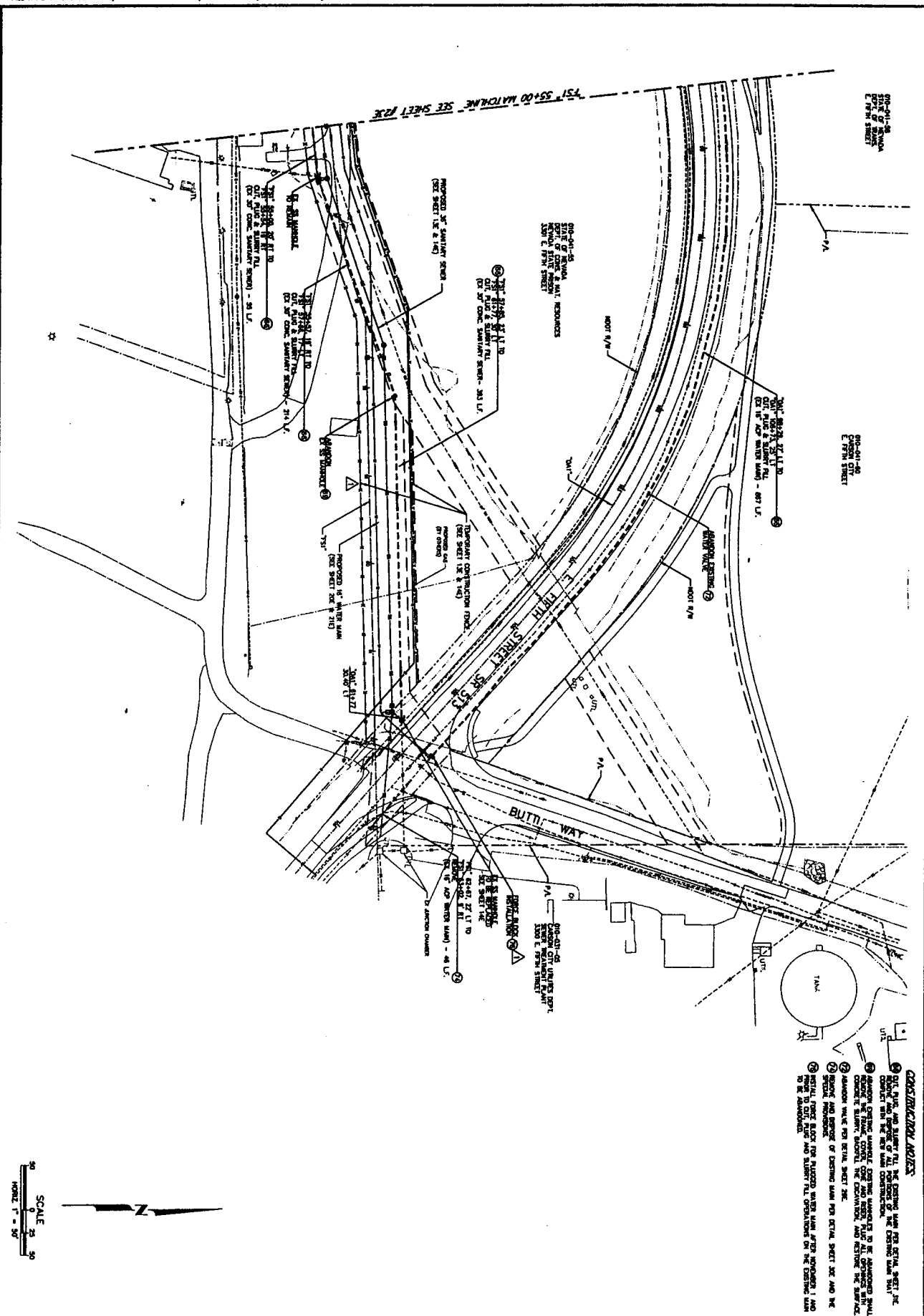
**CARSON CITY FREEWAY PHASE 2A
 UTILITY RELOCATIONS
 E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTH WAY
 PROJECT No. 00-601Q
 UTILITY REMOVAL/ABANDONMENT PLAN**

REV.	DATE	DESCRIPTION	BY	APP'D
1	5/7/07	ADDITIONAL NO. 1	CFV	JER
2	5/21/07	CONFORMED PLAN SET	CFV	JER
3	5/1/07	PLAN CLARIFICATIONS	PE	JER

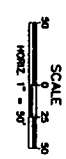


**CARSON CITY
 PUBLIC WORKS DEPARTMENT**
 3500 BUTTH WAY CARSON CITY, NEVADA 89701
 PH: 867-2388 FAX: 867-2112

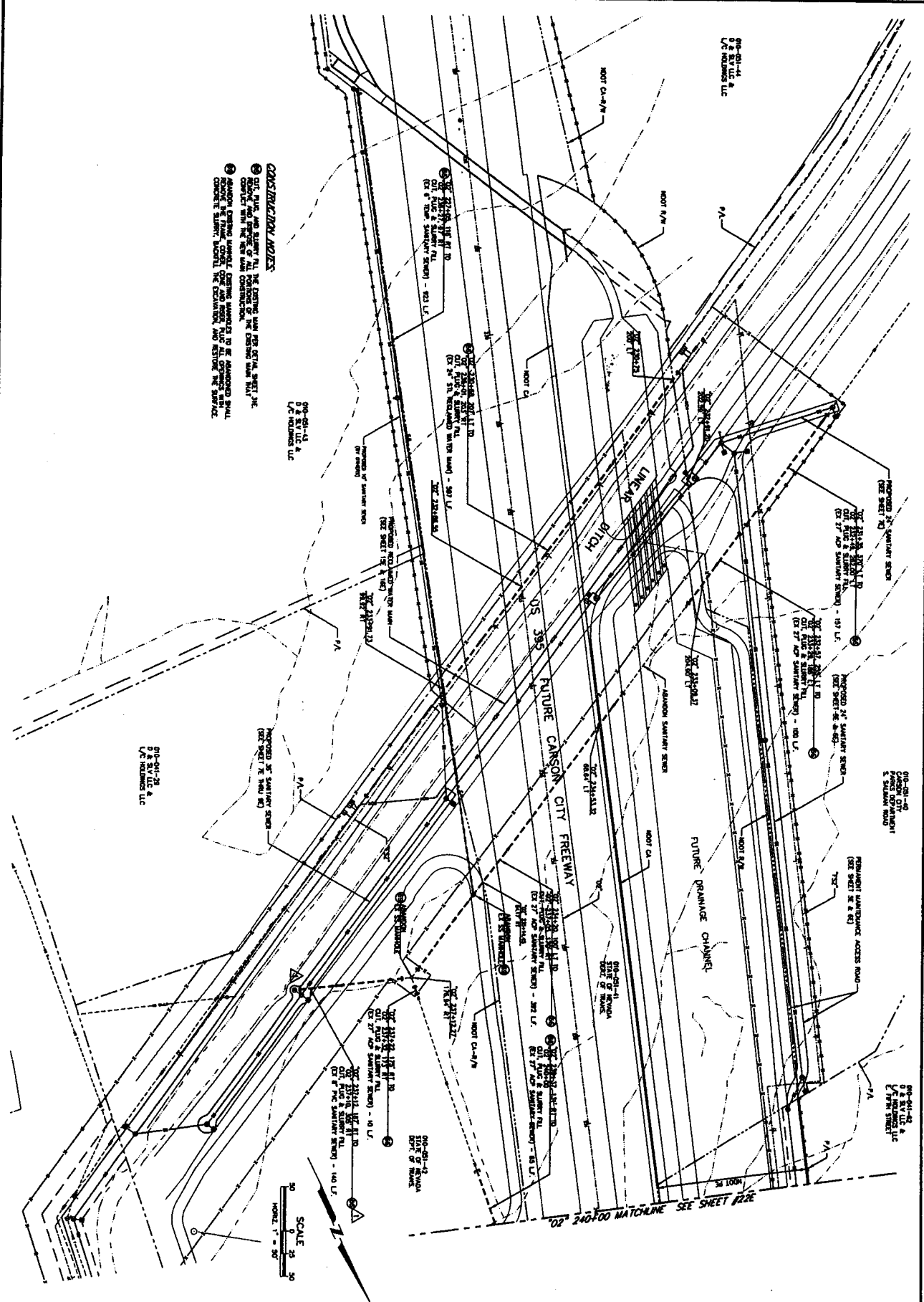
DRAWN BY: JCY
 CHECKED BY: JCY
 DATE: 05/07/07
 SCALE: (AS SHOWN) 1"=50'
 SCALE (VERT): NONE
 PLOT DATE: 05-24-07



- CONSTRUCTION NOTES**
- 1. ALL EXISTING UTILITIES TO BE REMOVED SHALL BE IDENTIFIED BY THE CONTRACTOR AND SHALL BE REMOVED PRIOR TO THE START OF CONSTRUCTION.
 - 2. ALL NEW UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF CARSON CITY STANDARDS AND SPECIFICATIONS.
 - 3. ALL UTILITIES SHALL BE PROTECTED BY CONSTRUCTION BARRIERS AND SAFETY LIGHTS THROUGHOUT THE CONSTRUCTION PERIOD.
 - 4. ALL UTILITIES SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE REPAIRED IMMEDIATELY IN THE EVENT OF DAMAGE.
 - 5. ALL UTILITIES SHALL BE TESTED AND ACCEPTED BY THE CITY OF CARSON CITY PRIOR TO THE START OF CONSTRUCTION.

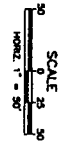


<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-601Q UTILITY REMOVAL/ABANDONMENT PLAN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP'D</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/7/07</td> <td>ADDendum No. 1</td> <td>GJV</td> <td>SP</td> </tr> <tr> <td>2</td> <td>5/25/07</td> <td>CONFORMED PLAN SET</td> <td>GJV</td> <td>SP</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	BY	APP'D	1	5/7/07	ADDendum No. 1	GJV	SP	2	5/25/07	CONFORMED PLAN SET	GJV	SP		<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3505 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2335 FAX: 867-2112</p>	<p>DESIGNED BY: JR DRAWN BY: GJV CHECKED BY: GJV PWD NO.: 000001-01</p> <p>SCALE (HORIZ.): 1"=50' SCALE (VERT.): NONE PLOT DATE: 06-01-07</p>
REV.	DATE	DESCRIPTION	BY	APP'D															
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2	5/25/07	CONFORMED PLAN SET	GJV	SP															

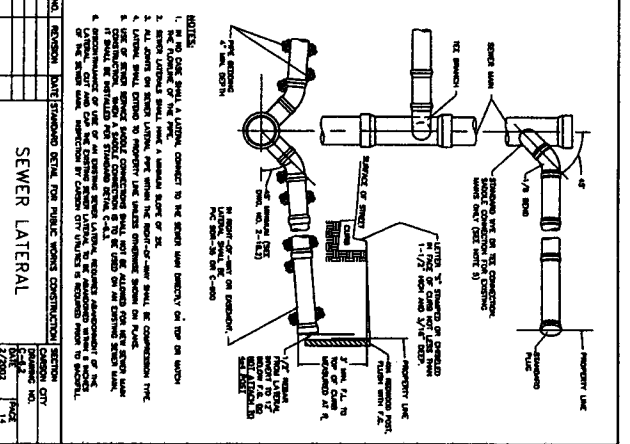
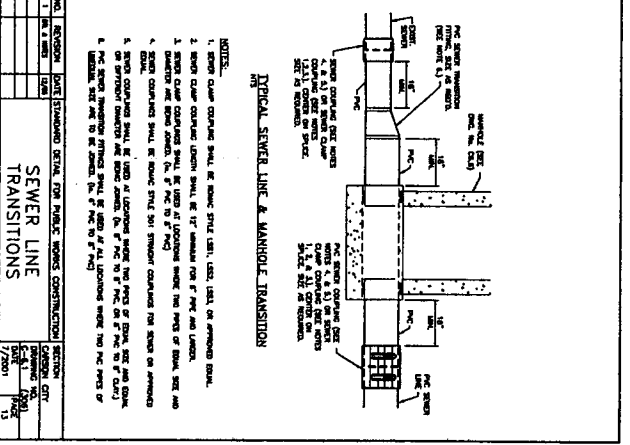
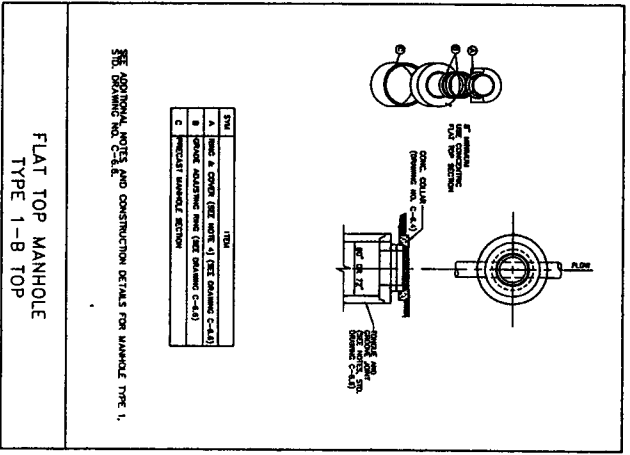
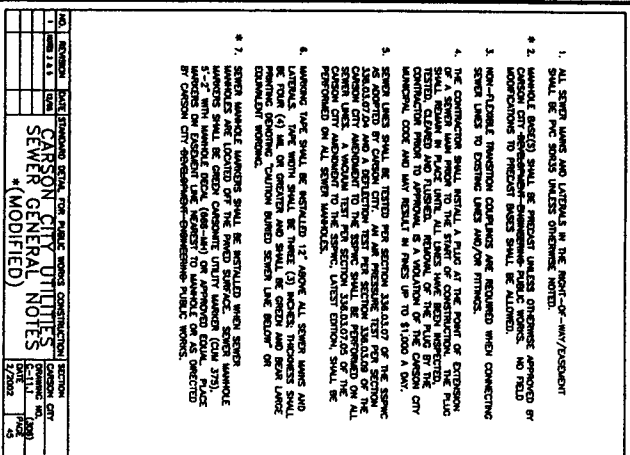
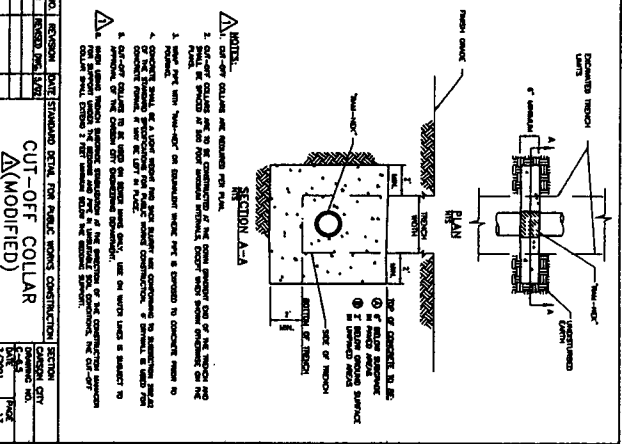
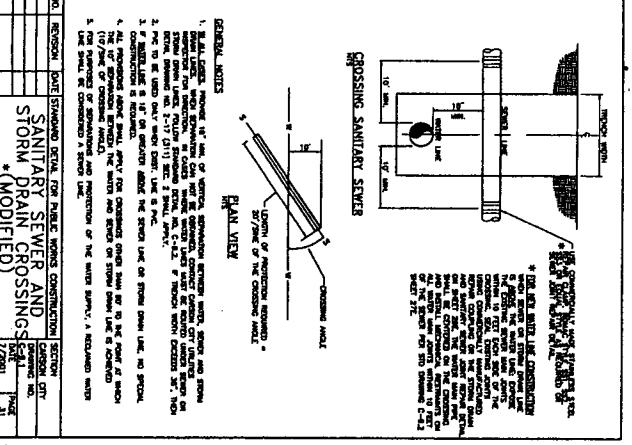
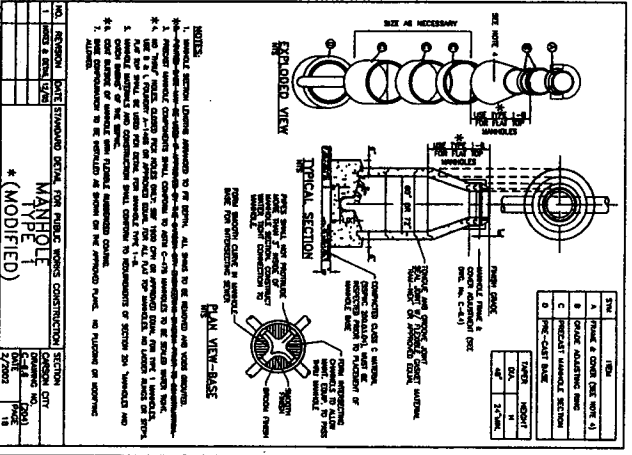
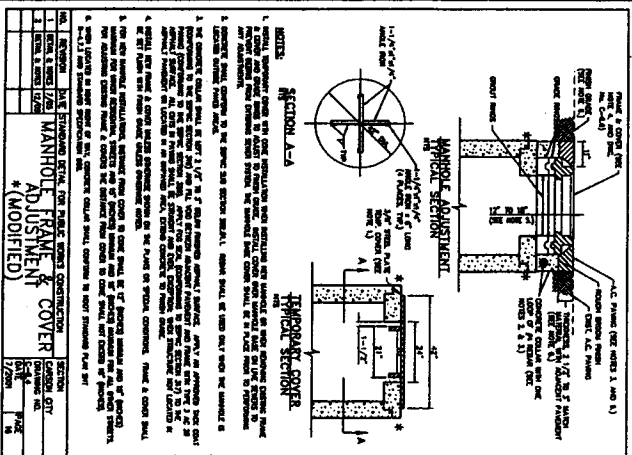


CONSTRUCTION NOTES:

1. ALL UTILITIES TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH THE CITY OF CARSON CITY UTILITIES DEPARTMENT STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION.
2. ALL UTILITIES TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH THE CITY OF CARSON CITY UTILITIES DEPARTMENT STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION.
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SHEET 25E OF 34	CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-601Q UTILITY REMOVAL/ABANDONMENT PLAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>APP'D</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/7/07</td> <td>ADDENDUM No. 1</td> <td>CFV</td> <td>BR</td> </tr> <tr> <td>2</td> <td>5/20/07</td> <td>CONFORMED PLAN SET</td> <td>CFV</td> <td>BR</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION	BY	APP'D	1	5/7/07	ADDENDUM No. 1	CFV	BR	2	5/20/07	CONFORMED PLAN SET	CFV	BR		CARSON CITY PUBLIC WORKS DEPARTMENT 3540 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2386 FAX: 867-2112	DESIGNED BY: JLR DRAWN BY: JCY CHECKED BY: JCC PWD NO. 00000-01 SCALE (HORIZ): 1"=50' SCALE (VERT): NONE PLOT DATE: 06-04-07
REV.	DATE	DESCRIPTION	BY	APP'D																
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2	5/20/07	CONFORMED PLAN SET	CFV	BR																

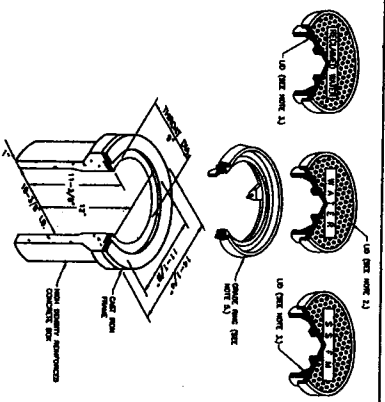


CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-6010 TYPICAL CONSTRUCTION DETAILS		REV. DATE DESCRIPTION 5/27/07 ADDITION No. 1 5/28/07 CONFORMED PLAN SET	BY APP'D G.S. G.S. G.S. G.S.	PUBLIC WORKS DEPARTMENT 3506 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-3355 FAX: 867-3112	DESIGNED BY: J.E. DRAWN BY: J.E. CHECKED BY: J.E. SCALE: AS SHOWN DATE: 05-31-07
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WATER GENERAL NOTES

1. WATER SHALL BE PROVIDED TO THE PROJECT FROM THE CITY OF CARSON CITY WATER TREATMENT PLANT. THE WATER SHALL BE SUPPLIED AT A PRESSURE OF 100 PSI TO THE PROJECT. THE WATER SHALL BE SUPPLIED AT A PRESSURE OF 100 PSI TO THE PROJECT. THE WATER SHALL BE SUPPLIED AT A PRESSURE OF 100 PSI TO THE PROJECT.
2. ALL WATER MAINS SHALL BE 12" DIA. UNLESS OTHERWISE NOTED. ALL WATER MAINS SHALL BE 12" DIA. UNLESS OTHERWISE NOTED. ALL WATER MAINS SHALL BE 12" DIA. UNLESS OTHERWISE NOTED.
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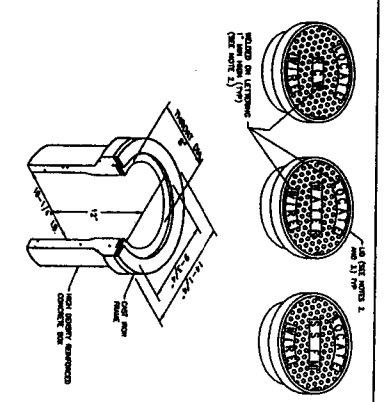
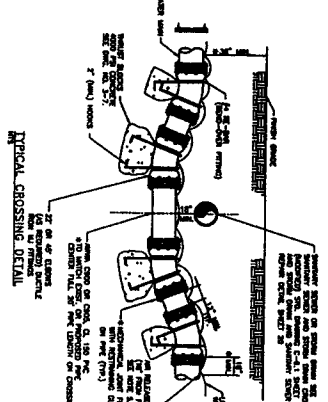
VALVE BOX & LID

- NOTES:
1. VALVE BOX AND LID SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 2. VALVE BOX AND LID SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 3. VALVE BOX AND LID SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
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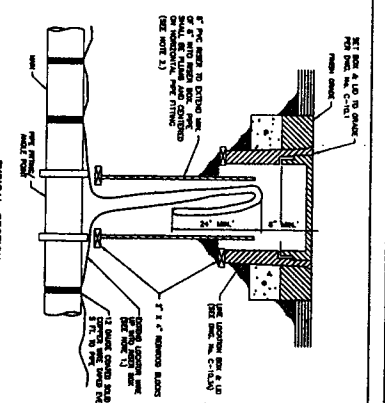
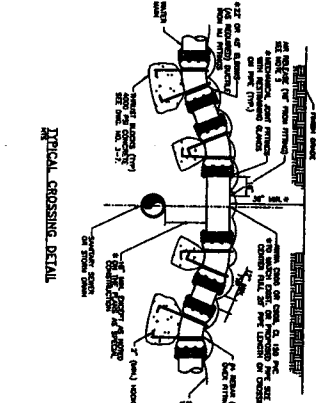
LINE LOCATION BOX & LID

- NOTES:
1. LINE LOCATION BOX AND LID SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 2. LINE LOCATION BOX AND LID SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
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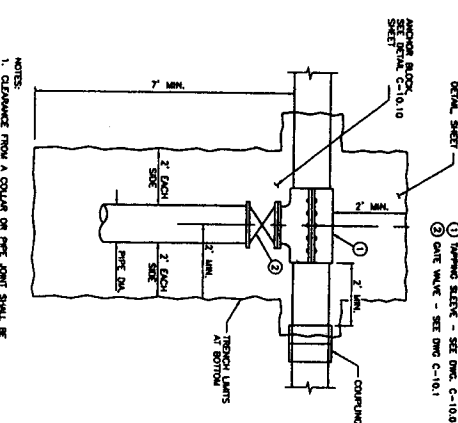
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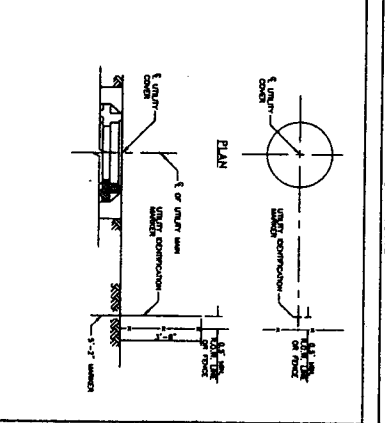
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LINE LOCATION RISER

- NOTES:
1. LINE LOCATION RISER SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 2. LINE LOCATION RISER SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 3. LINE LOCATION RISER SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
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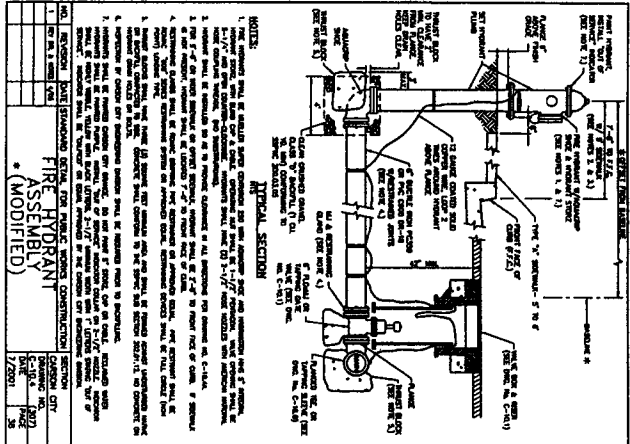
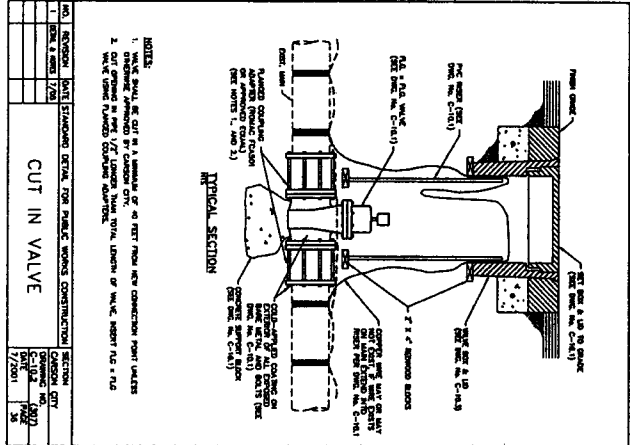
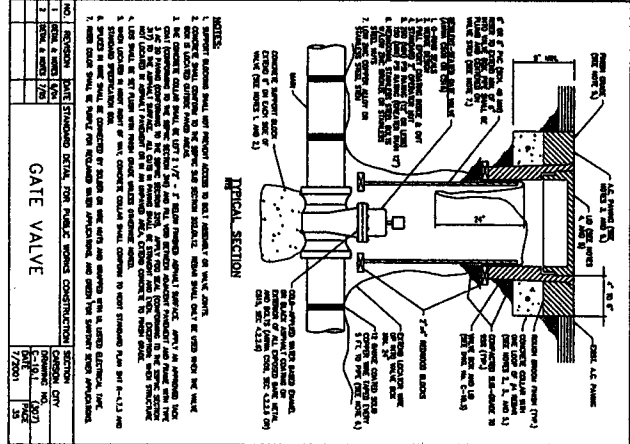
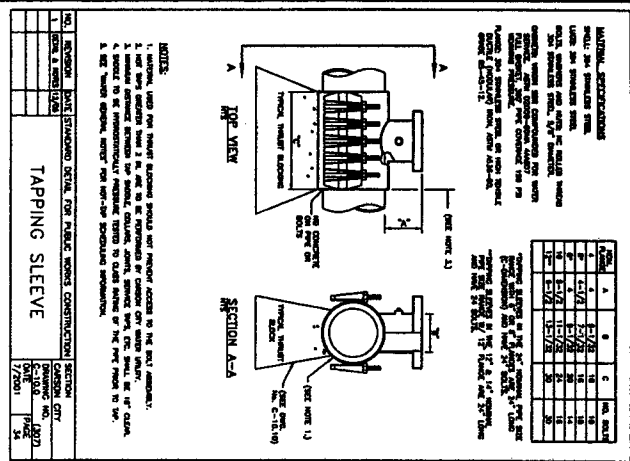
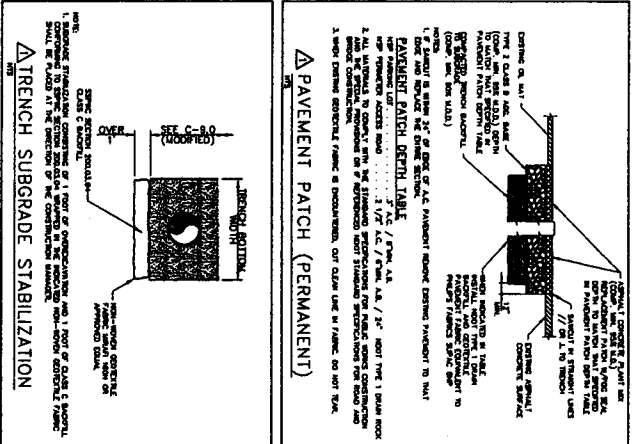
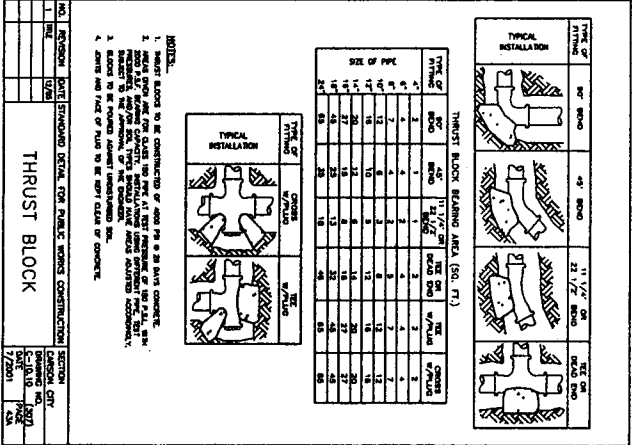
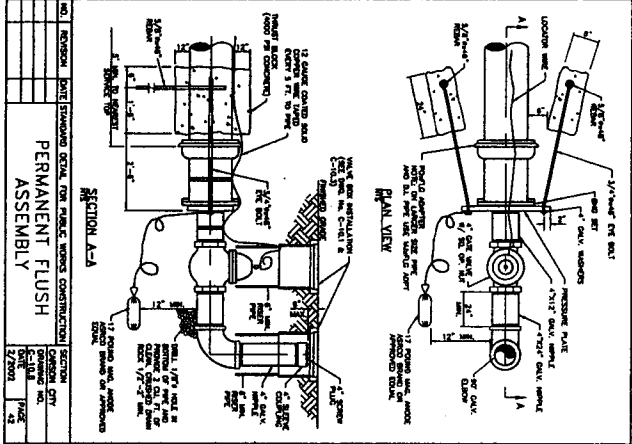
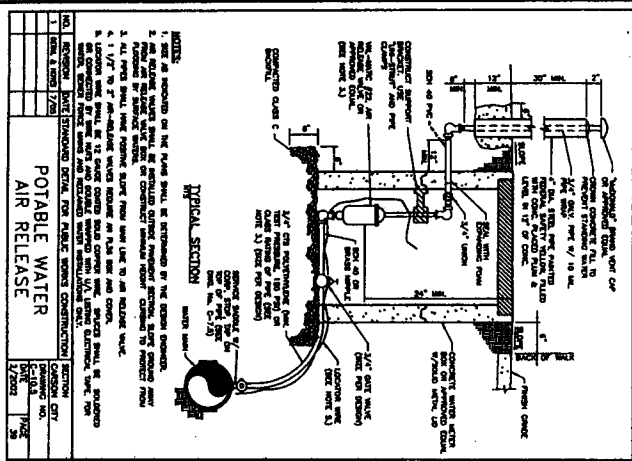
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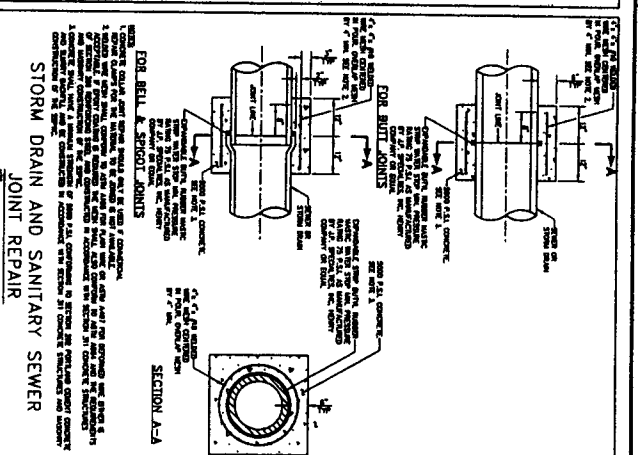
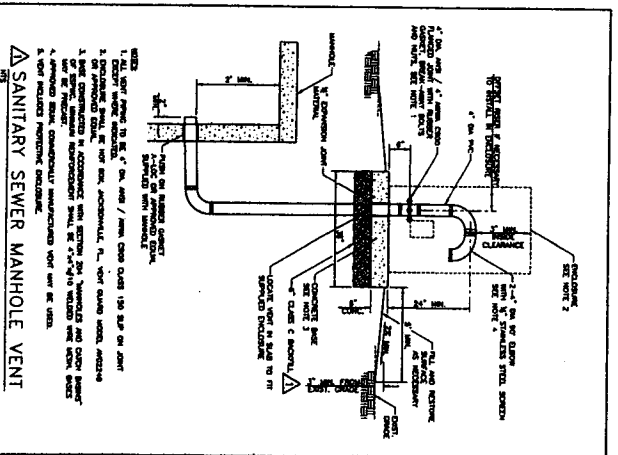
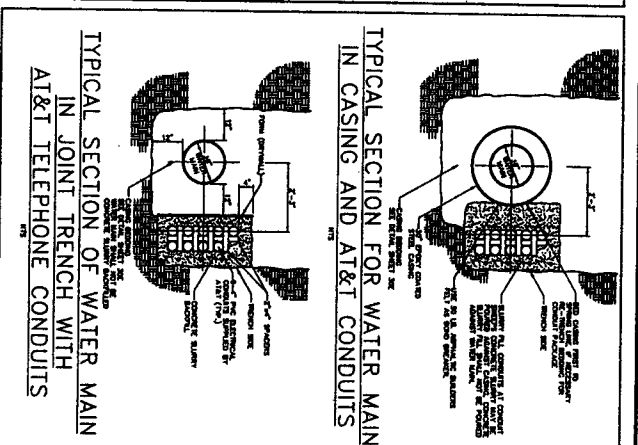
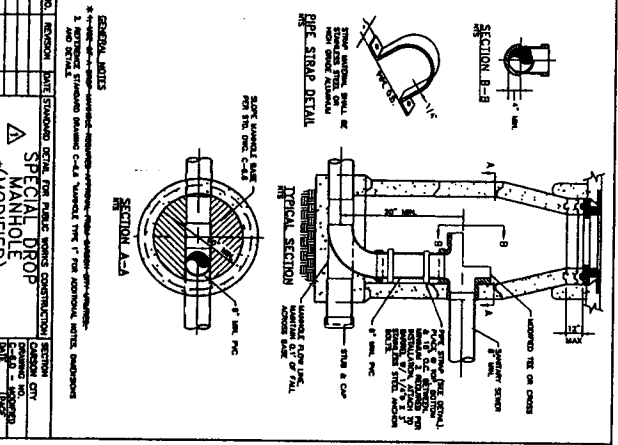
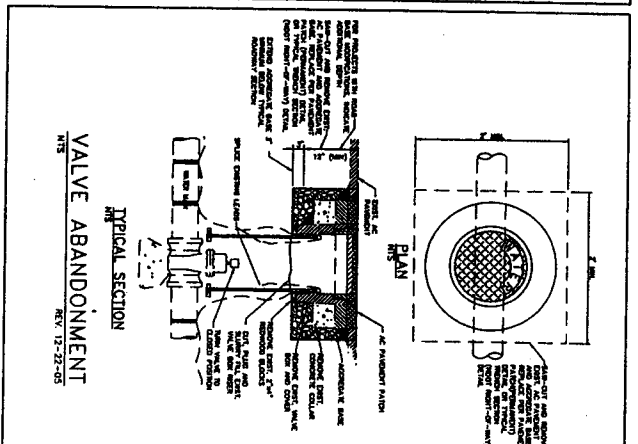
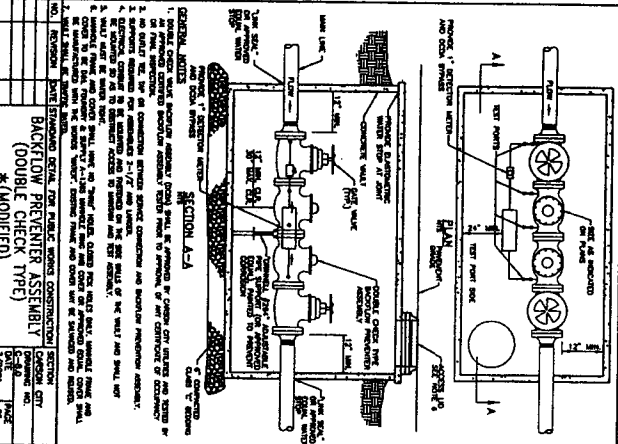
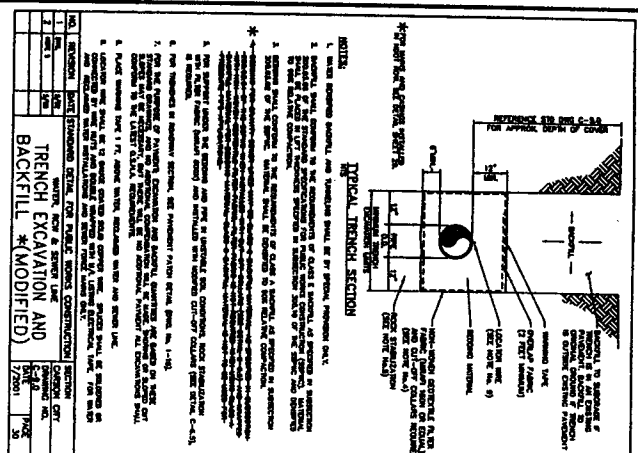
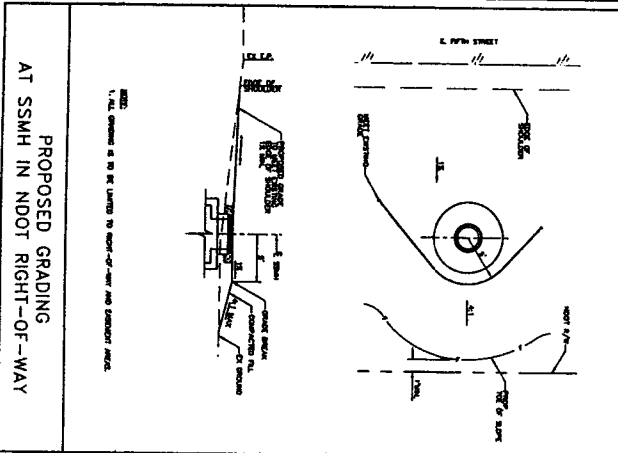


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UTILITY IDENTIFICATION MARKER AND PLACEMENT

- NOTES:
1. UTILITY IDENTIFICATION MARKER SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
 2. UTILITY IDENTIFICATION MARKER SHALL BE CONCRETE WITH A MINIMUM STRENGTH DESIGN OF 4000 PSI.
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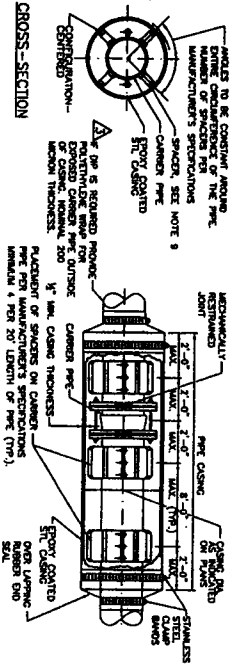




CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTI WAY PROJECT No. 00-6010		DESIGNED BY: [] DRAWN BY: [] CHECKED BY: [] DWG NO.: [] SCALE (PAPER): [] SCALE (FIELD): [] PLOT DATE: []	
29E 34	CARSON CITY PUBLIC WORKS DEPARTMENT 3506 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 867-2336 FAX: 867-2112	THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA	

GENERAL CATHODIC PROTECTION NOTES

1. ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO THE STEEL CHAMBER OF THE PIPES BY MEANS OF A CORROSION RESISTANT WELD.
2. ALL TEST LEADS AND ANODE LEADS SHALL BE ATTACHED TO EITHER THE PRODUCTS BOLL END, SPORT END OR FLAN END AS SHOWN.
3. ALL EXPOSED PORTIONS OF THE ANODES SHALL BE PROTECTED WITH AN ELECTROLYTIC WELDING RESIN.
4. ALL TEST LEADS AND ANODE LEADS SHALL BE RUN WITHOUT SPICES FROM THE CHAMBER TO THE TEST STATION.
5. ALL TEST LEADS AND ANODE LEADS SHALL BE BUNDLED TOGETHER AND PROTECTED WITH AN ELECTROLYTIC WELDING RESIN. TEST LEADS SHALL BE PROVIDED WITH SUFFICIENT SLACK SO THAT THE TEST LEAD CAN BE EXTENDED A MINIMUM OF 4 FEET ABOVE THE TEST BOX.
6. ALL TEST LEADS AND ANODE LEADS SHALL BE COLORED TAPE AT EACH END AND IN 4 FOOT INTERVALS.
TEST STATION LEADS FROM PIPE: WHITE
REFERENCE CELL TEST LEADS: RED
ANODE LEADS: YELLOW
7. ALL TEST LEADS AND ANODE LEADS SHALL BE CONNECTED TO THE BRASS BOLTS ON THE TERMINAL BLOCK WITH SOLDERLESS SCREW NOT CORRODED UP CONNECTIONS OR PRESSURE.
8. ALL TEST LEADS AND ANODE LEADS SHALL HAVE A MINIMUM OF 1/4" OF SLACK WEAR AT THE POINT TO PREVENT DAMAGE DURING THE NORMAL OPERATION.
9. ALL TEST LEADS AND ANODE LEADS SHALL BE PLACED ALONG THE SIDE AND BELOW THE SPRAWL OF THE PIPE.
10. ANODE WIRE TO ANODE LEAD WITH SUFFICIENT COMPRESSOR COMPRESSOR C-TYPES OR OTHER SIZES WITH SUFFICIENT SLOPE AND MECHANICAL STRESS AND ELECTRICAL TAP ON STEEL LEAD SPEAKER SHALL BE MADE FOR TENSION AND TO RELIEVE STRESS ON WIRE DURING BACKFLOW.
11. SLOPES EACH ANODE WITH MINIMUM 5 GAL WATER BEFORE BACKFLOW.
12. TERMINAL BLOCK SHALL BE OF TEST SERVICES VALVO INC. (FORMER BLOCK ONLY) OR EQUIVALENT.



1. CASING SPACERS SHALL BE COMMERCIAL MANUFACTURED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL PIPE AND FITTINGS TO BE INSTALLED SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

2. ANODES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.

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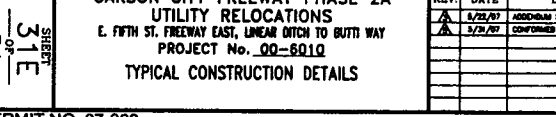
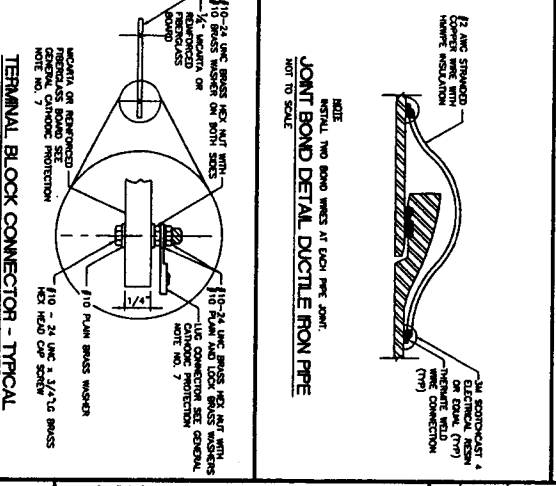
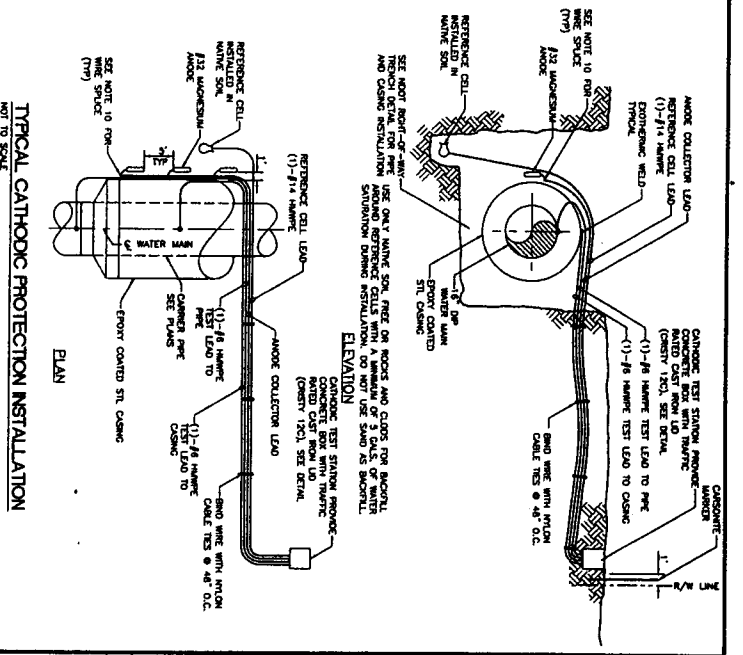
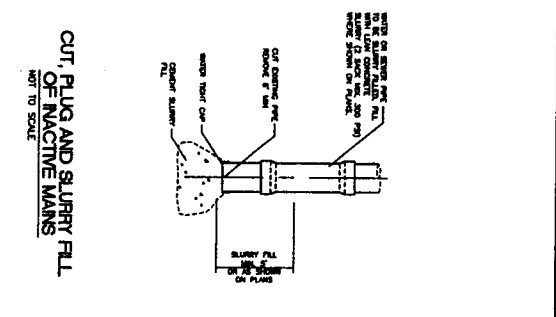
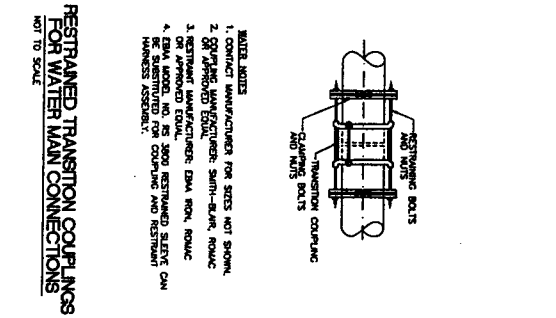
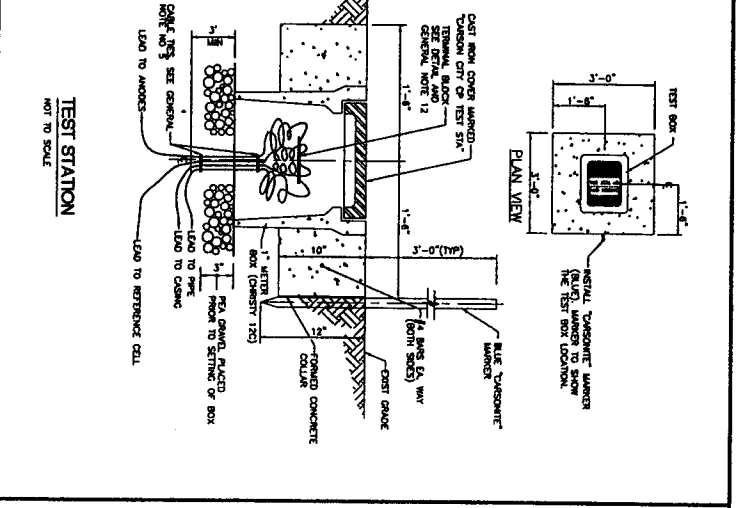
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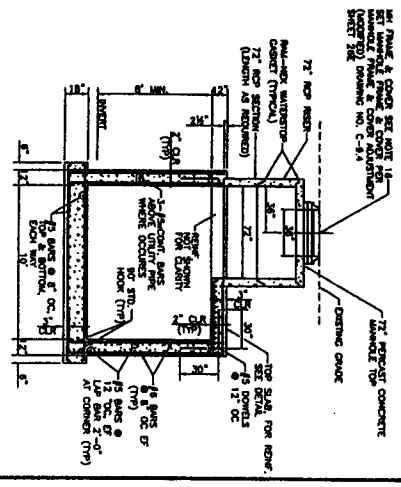
8. ANODE WIRE TO ANODE LEAD WITH SUFFICIENT COMPRESSOR COMPRESSOR C-TYPES OR OTHER SIZES WITH SUFFICIENT SLOPE AND MECHANICAL STRESS AND ELECTRICAL TAP ON STEEL LEAD SPEAKER SHALL BE MADE FOR TENSION AND TO RELIEVE STRESS ON WIRE DURING BACKFLOW.

9. SLOPES EACH ANODE WITH MINIMUM 5 GAL WATER BEFORE BACKFLOW.

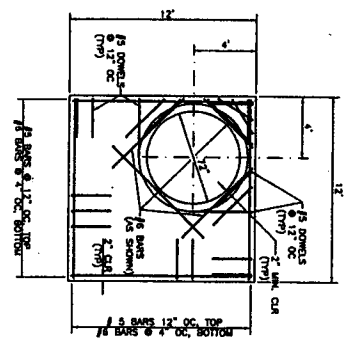
10. TERMINAL BLOCK SHALL BE OF TEST SERVICES VALVO INC. (FORMER BLOCK ONLY) OR EQUIVALENT.



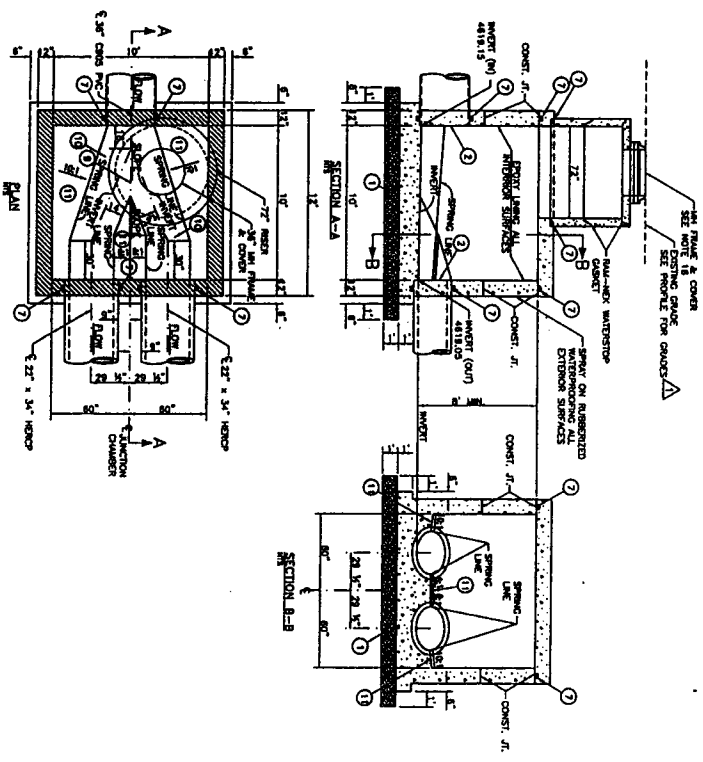
<p>CARSON CITY FREEWAY PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-8010</p> <p>TYPICAL CONSTRUCTION DETAILS</p>		<p>REV. DATE DESCRIPTION BY APP'D</p> <p>1/25/07 DESIGNER M.J. [Signature]</p> <p>2/27/07 CONFORMED PLAN SET [Signature]</p>	<p>CARSON CITY PUBLIC WORKS DEPARTMENT 3500 BUTTE WAY CARSON CITY, NEVADA 89704 PH 867-2355 FAX 867-2112</p> <p>DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] DWG NO.: 00-8010-01-01</p> <p>THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA</p> <p>SCALE (HORIZONTAL): [Signature] SCALE (VERTICAL): [Signature] PLW DATE: 06-21-07</p>
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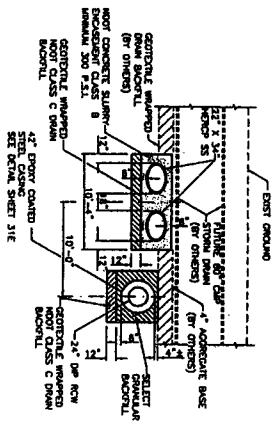
SANITARY SEWER JUNCTION CHAMBER DETAIL



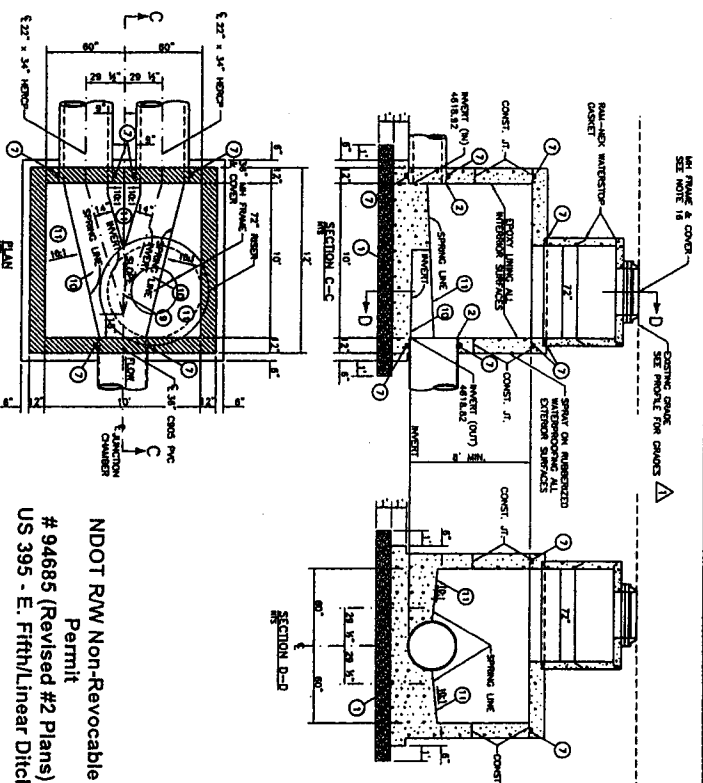
SANITARY SEWER JUNCTION CHAMBER TOP SLAB DETAIL



SANITARY SEWER JUNCTION CHAMBER & LF12



TYPICAL SECTION OF 2-HORSE SANITARY SEWER AND 24\"/>



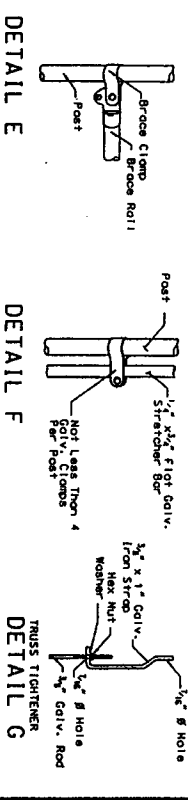
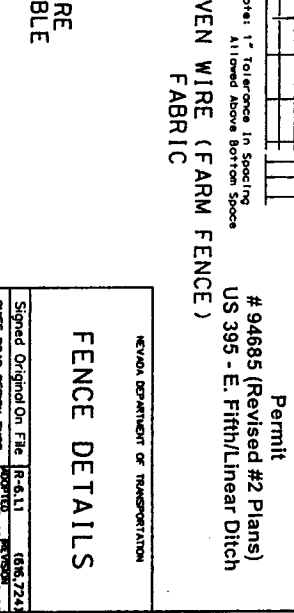
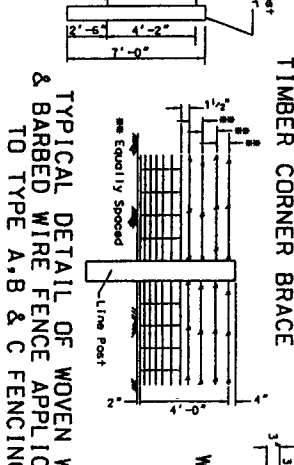
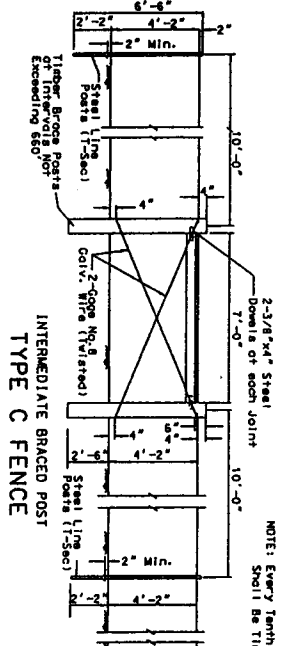
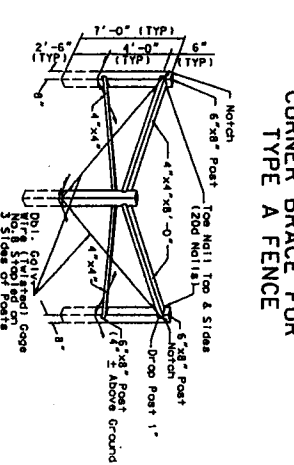
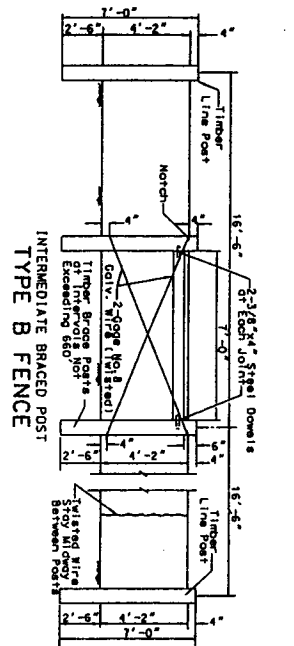
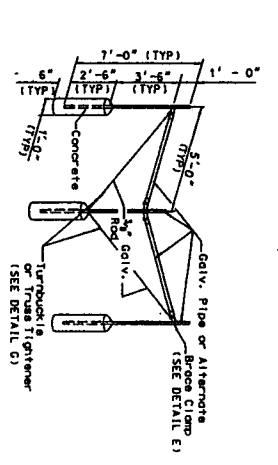
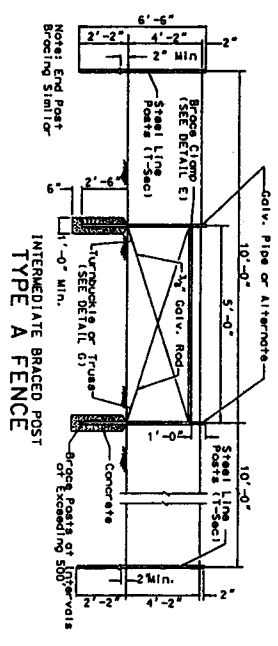
SANITARY SEWER JUNCTION CHAMBER & LF13

- CONSTRUCTION NOTES**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.
 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.
 3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.
 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.
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 19. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.
 20. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2004, LATEST EDITION.

NDOT R/W Non-Revocable
 Permit
 # 94685 (Revised #2 Plans)
 US 395 - E. Fifth/Linear Ditch

STREET 32E OF 34	CARSON CITY FREeway PHASE 2A UTILITY RELOCATIONS E. FIFTH ST. FREeway EAST, LINEAR DITCH TO BUTTE WAY PROJECT No. 00-001Q TYPICAL CONSTRUCTION DETAILS		DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 05-31-07
	REV. DATE DESCRIPTION BY APPR. 1/2/07 [Signature] [Signature] 5/2/07 [Signature] [Signature]	PUBLIC WORKS DEPARTMENT 3008 BUTTE WAY CARSON CITY, NEVADA 89701 PH: 867-2325 FAX: 867-2112	THE LOUIS BERGER GROUP, INC. LAS VEGAS, NEVADA

CORNER, END & PULL		LINE		BRACES	
FENCE HEIGHT	MIN. WT. (LBS./L.F.)	MIN. WT. (LBS./L.F.)	T-SECTION (LBS./L.F.)	MIN. WT. (LBS./L.F.)	MIN. WT. (LBS./L.F.)
3' to 6'	CLASS 1	CLASS 2	CLASS 1	CLASS 1	CLASS 2
2,375'	5.65	2.64	1.30	1,660'	2.27
					1.45



GENERAL NOTES:

1. FENCE POSTS AND MATERIALS SHALL conform TO THE REQUIREMENTS OF STANDARD SPECIFICATIONS AND SUPPLEMENTARY.
2. DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE SPECIFIED.
3. DIMENSIONS SHALL BE SPACED AS FOLLOWS:
4. DIMENSIONS SHALL BE SPACED AS FOLLOWS:
5. DIMENSIONS SHALL BE SPACED AS FOLLOWS:
6. DIMENSIONS SHALL BE SPACED AS FOLLOWS:

NDOT RW/Non-Revocable Permit
 # 94685 (Revised #2 Plans)
 US 395 - E. Fifth/Linear Ditch

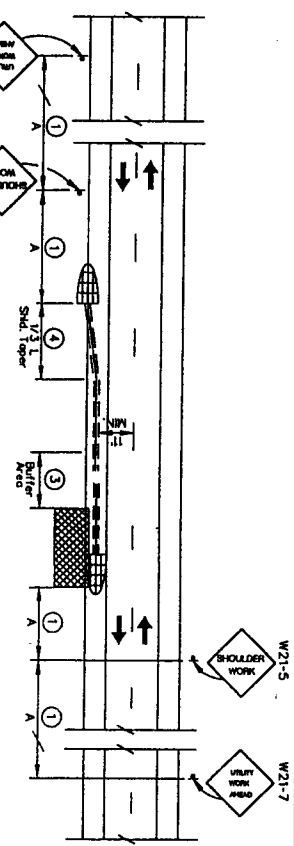
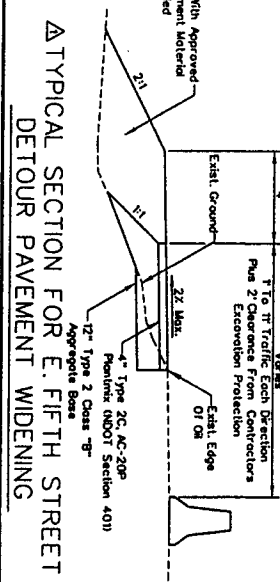
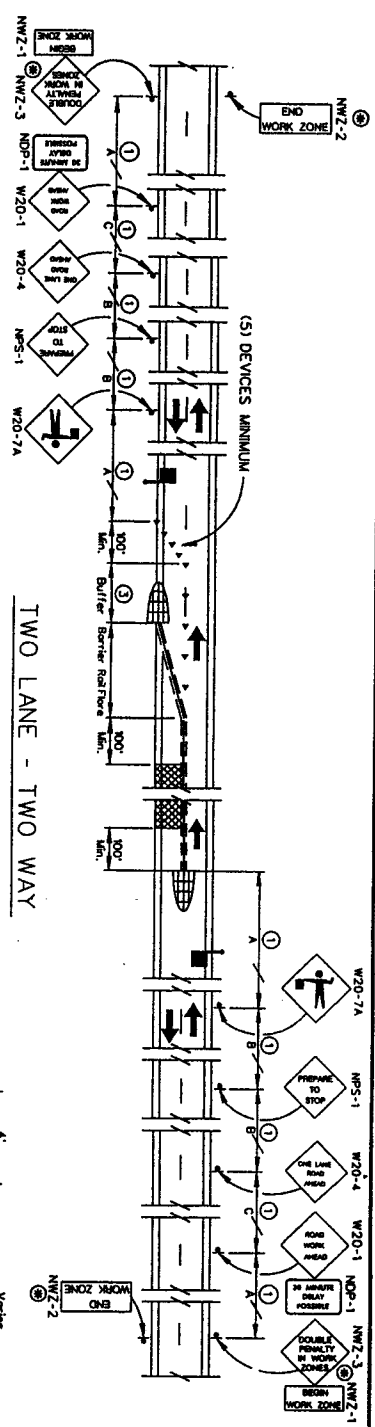
NEVADA DEPARTMENT OF TRANSPORTATION
FENCE DETAILS
 Signed Original On File R-6-11 (186,724)
 CHECK ROAD DESIGN ENGR. (186,724)
 (186,724)

REV.	DATE	DESCRIPTION	BY	APP'D
A	8/23/07	CONFORMED PLAN SET		

CARSON CITY PUBLIC WORKS DEPARTMENT
 3508 BIRTH WAY CARSON CITY, NEVADA 89701
 PLS 897-2356 FAX 897-2112

THE LOUIS BERGER GROUP, INC.
 LAS VEGAS, NEVADA

DESIGNED BY: JR
 DRAWN BY: JCY
 CHECKED BY: JTC
 PWD NO.: 00-01-00000-00-00
 SCALE (PRINTING): 1/8" = 1'-0"
 SCALE (PHOTO): NONE
 PLOT DATE: 08-24-07



1. THE FOLLOWING STANDARD DRAWINGS FROM THE NDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 SHALL APPLY:
 - T-35.1.1 TYPICAL TABLES/NOTES FOR TRAFFIC CONTROL SHEETS T-35.1.1 THRU T-35.1.17
 - T-35.1.2 TYPICAL TRAFFIC CONTROL FOR ROAD CLOSURES
 - T-35.1.3 TYPICAL TRAFFIC CONTROL FOR ROAD CLOSURES
 - T-35.1.4 TYPICAL TRAFFIC CONTROL FOR ROAD CLOSURES
 - T-35.2.1 TRAFFIC CONTROL CONES, DRUMS AND VERTICAL PANELS
 - T-35.2.2 TRAFFIC CONTROL TEMPORARY IMPACT ATTENUATORS
2. IN ADDITION TO STANDARDS IN NOTE 1, THE FOLLOWING ADDITIONAL REFERENCES SHALL APPLY: THE ASHTO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LIMITED) AS SUPPLEMENTED WITHIN NEVADA AND CONDITIONS OF THE OCCUPANCY PERMIT ISSUED FOR THIS PROJECT BY THE NEVADA DEPARTMENT OF TRANSPORTATION TO CARSON CITY.
3. THIS SHEET IS PROVIDED AS A FORMAT FOR THE CONTRACTOR TO DEVELOP A TRAFFIC CONTROL PLAN THAT ACCOMMODATES THE CONTRACTOR'S PROPOSED CONSTRUCTION. THIS SHEET WAS ALSO USED FOR ESTABLISHING TRAFFIC CONTROL FOR THE CONDITIONS OF THE NOT OCCUPANCY PERMIT TO THE OCCUPANCY PERMIT. THE CONTRACTOR'S TRAFFIC CONTROL PLAN MAY VARY BUT MUST CONFORM TO THE STANDARD PRACTICES. THE CONTRACTOR'S TRAFFIC CONTROL PLAN MUST BE RECEIVED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER WILL REVIEW THE PLAN FOR CONFORMANCE TO THE ABOVE STANDARDS AND PERMIT CONDITIONS. VARIANCE BY THE CONTRACTOR DURING CONSTRUCTION FROM THE SUBMITTED PLAN MUST BE SUBMITTED IN WRITING TO THE ENGINEER.
4. ALL TRAFFIC CONTROL SHALL MEET MINIMUM CRITERIA FOR 40 MPH ON SR-513 E. FIFTH STREET.

LEGEND

	Work Area
	Channelizing Devices (See Table)
	Channelizing Devices (33' Spacing)
	Arrow Board
	2.45 mph
	See GENERAL NOTE No. 1.
	Concrete Barrier Road

See T-35.1.1 for TABLES and GENERAL NOTES

ALL TRAFFIC CONTROL SHALL MEET MINIMUM CRITERIA FOR 40 MPH ON E. FIFTH STREET
E. FIFTH STREET (SR513)
TRAFFIC CONTROL IN NDOT ROW-1

NDOT RM Occupancy Permit
94705 (Revised #2 Plans)
E. Fifth Street (SR 513)
East of Freeway

CARSON CITY FREEWAY PHASE 2A
UTILITY RELOCATIONS
E. FIFTH ST. FREEWAY EAST, LINEAR DITCH TO BUTT WAY
PROJECT No. 00-6010
TYPICAL CONSTRUCTION DETAILS

REV.	DATE	DESCRIPTION	BY	APP'D
1	5/7/07	ADDITION No. 1	AS	AS
2	5/31/07	CONFIRMED PLAN SET	AS	AS



CARSON CITY
PUBLIC WORKS DEPARTMENT
3508 SOUTH WAY CARSON CITY, NEVADA 89701
PH 867-2333 FAX 867-2112

THE LOUIS BERGER
GROUP, INC.
LAS VEGAS, NEVADA

DRAWN BY: JCY
CHECKED BY: JCY
SCALE: HORIZONTAL - AS SHOWN
SCALE: VERTICAL - AS SHOWN
PLANT DATE: 08-21-07