

**Carson City
Agenda Report**

Date Submitted: May 21, 2012

Agenda Date Requested: June 7, 2012
Time Requested: 10 minutes

To: Board of Supervisors

From: Thomas Guinn, Utility Manager

Subject Title: For Possible Action: To approve and authorize the mayor to sign an Agreement For The Adjustment Of Utility Facilities with NDOT for the Carson City Freeway Project which identifies adjustments of utility facilities associated with the Phase 2B-2 construction and owned by Carson City.

Staff Summary: This is the next step in the Carson City Freeway Project. Phase 2B-2 design is complete and packaged to go to bid. Carson City staff and NDOT have prepared the Phase 2B-2 Utility Agreement similar in nature to the previous Utility Agreements for Phase 1A, Phase 1B, Phase 2A and Phase 2B-1.

Type of Action Requested: (check one)
 Resolution Ordinance
 Formal Action/Motion Other (Specify)

Does This Action Require A Business Impact Statement: Yes No

Recommended Board Action: I move to accept Public Works Recommendation to approve and authorize the mayor to sign an Agreement For The Adjustment Of Utility Facilities with NDOT for the Carson City Freeway Project which identifies adjustments of utility facilities associated with the Phase 2B-2 construction and owned by Carson City..

Explanation for Recommended Board Action: Approving this Agreement will allow NDOT to proceed with bidding the Carson City Freeway Project Phase 2B-2. This agreement identifies utility facilities required to be adjusted and/or relocated and owned by the City; including water, storm drain, and sanitary sewer facilities located along US 395. The total estimated cost for performing the adjustments is \$1,455,703.80, of which \$794,523.13 is eligible for reimbursement and \$661,180.67 is attributed to non-reimbursable and betterment costs.

Applicable Statute, Code, Policy, Rule or Regulation: N/A

Fiscal Impact: \$661,180.67

Explanation of Impact: Reduction in budget by \$661,180.67

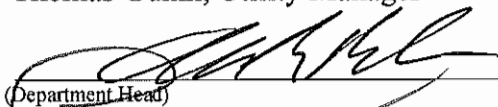
Funding Source: 2012 Water Bond and 2012 Sewer Bond

Alternatives: Provide other direction pursuant to Board Action

Supporting Material: Agreement for the Adjustment of Utility Facilities.

Prepared By: Thomas Guinn, Utility Manager

Reviewed By:



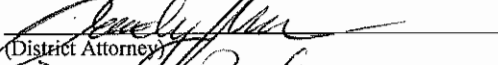
(Department Head)

Date: 5-29-12



(City Manager)

Date: 5/29/12



(District Attorney)

Date: 5/29/12



(Finance Director)

Date: 5/29/12

Board Action Taken:

Motion: _____

1) _____

Aye/Nay

2) _____

(Vote Recorded By)

Project: MG-395-1(006)

E.A.: 71366

Hwy. Agr. #: _____

AGREEMENT FOR THE ADJUSTMENT OF UTILITY FACILITIES

THIS AGREEMENT, made and entered into this ____ day of _____, 20____, by and between the STATE OF NEVADA acting by and through its DEPARTMENT OF TRANSPORTATION, hereinafter referred to as STATE, and CARSON CITY, NEVADA, whose mailing address is 3505 Butti Way Carson City, NV 89701, hereinafter referred to as CITY.

WHEREAS, in the course of construction of Project MG-395-1(006), E.A. 71366, certain adjustments will have to be made to utility facilities owned by CITY; specifically, CITY shall adjust and/or relocate water, storm drain, and sanitary sewer facilities located along US-395 from 1300 feet left and 1600 feet right of Highway Engineer's Station "L"37.00 + 50 to 1300 feet left and 1600 feet right of Highway Engineer's Station "L"97.00 + 50. Relocations and/or adjustments will be performed by STATE's contractor in accordance with CITY's plans and specifications as provided to the STATE for approval and attached hereto as EXHIBIT "A", and made a part hereof; and

WHEREAS, CITY has established its compensable interests in and to the facilities needing adjustment as set forth in the document attached hereto as EXHIBIT "B", and made a part hereof; and,

WHEREAS, STATE and CITY shall execute Consent to Common Use Agreements and both Revocable and Non-Revocable Permits for some or all of the adjustments in the forms attached hereto as EXHIBITS "C," "D," and "E"; and made a part hereof.

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

1. STATE's contractor shall adjust and/or relocate CITY's facilities as shown on plans attached hereto as said EXHIBIT "A". CITY's signature on this Agreement hereby authorizes STATE to perform said adjustments per specifications provided by CITY, and per the approved plans attached hereto as said EXHIBIT "A". Said adjustment will be performed in accordance with the provisions of 23 CFR Part 645 Subpart A of the U.S. Department of Transportation, Federal Highway Administration, hereinafter referred to as 23 CFR Part 645 Subpart A, said federal regulations being incorporated by reference, and Nevada law.

2. In accordance with Title 23, CFR 635.410, permanently incorporated steel and/or iron materials on Federal-Aid projects shall be domestically produced regardless of the percentage they comprise in a manufactured product or form they take. Minimal use of foreign steel will be permitted provided the cost of said materials does not exceed 1/10 (one tenth) of 1% (one percent) of the total contract cost or TWO THOUSAND FIVE HUNDRED AND NO/100 DOLLARS (\$2,500.00), whichever is greater.

CITY and/or STATE's contractor shall submit a Certificate of Materials Origin to the STATE in the form attached hereto as EXHIBIT "F", and made a part hereof.

3. CITY is responsible for Acceptance of STATE's contractor's adjustments of CITY's facilities. In the event CITY discovers what its inspector believes to be a discrepant condition with regard to the relocation of its facilities, CITY shall immediately contact the STATE's Resident Engineer or Project Manager and provide him/her with oral notice of the discrepancy followed by written notice as soon as reasonably possible thereafter. CITY shall not contact the contractor in an effort to stop the contractor's work. Upon CITY's Acceptance of STATE's contractor's installation of facilities, CITY agrees to indemnify and hold harmless the STATE from any future liability for work done to or around CITY's facilities during this Project.

4. STATE's contractor will provide CITY with a forty eight (48) hour notice for on-call inspection. A CITY inspector shall be present at all times that STATE's contractor is working on CITY's facilities. Design changes requested by CITY will be submitted in writing to STATE's Resident Engineer or Project Manager for final approval. STATE's response of approval or denial shall be in writing. STATE shall provide said response to CITY within five (5) calendar days. Design changes requested by STATE shall be submitted in writing to CITY's Engineer for CITY's review and approval prior to execution of the change order. CITY shall reply in writing to STATE within five (5) calendar days.

5. CITY and STATE agree to fully exonerate, indemnify, defend and hold harmless the other and their respective departments, divisions, agencies, officers or employees from and against all claims of actions, and all expenses incidental to the defense of any such claims or actions, based upon or arising out of damage or injury (including death) to persons or property due to any error, negligence, omission or act of the Party or any person employed by the Party in connection with this Agreement. The sums shall include, in the event of any actions, the amount of the judgment, court costs, expenses of litigation, expert witness fees and reasonable attorney fees.

6. The total estimated cost for performing the adjustments is ONE MILLION FOUR HUNDRED FIFTY-FIVE THOUSAND SEVEN HUNDRED THREE AND 80/100 DOLLARS (\$1,455,703.80), of which SEVEN HUNDRED NINETY-FOUR THOUSAND FIVE HUNDRED TWENTY-THREE AND 13/100 DOLLARS (\$794,523.13) is eligible for reimbursement. ZERO AND NO/100 DOLLARS (\$0.00) is attributable to salvage credits and FIFTY-SEVEN THOUSAND FIVE HUNDRED THREE AND 86/100 DOLLARS (\$57,503.86) is attributable to voluntary betterments undertaken by CITY. CITY is responsible for non-reimbursable costs and betterment costs which total SIX HUNDRED SIXTY-ONE THOUSAND ONE HUNDRED EIGHTY AND 67/100 DOLLARS (\$661,180.67). Details of the estimated costs are set forth in EXHIBIT "G" attached hereto and made a part hereof. Actual costs might exceed this estimated amount.

STATE and CITY shall pay submitted invoices in accordance with Paragraph 10 below. Under this Agreement, cost or costs include without limitation those items provided for in NRS 408.407, NAC 408.303 through 408.379, inclusive, and 23 CFR 645.117.

7. The parties designate that the method of developing the adjustment costs shall be actual direct and related indirect costs to be accumulated in accordance with an approved work order accounting system or procedure prescribed by the applicable Federal or State regulatory body in accordance with the provisions of 23 CFR Part 645 Subpart A.

8. CITY and STATE shall submit the original plus one (1) copy of a detailed, itemized statement showing all the costs for which Party is claiming reimbursement in connection with a final billing or progress billing. In accordance with NAC 408.379(6), STATE will, within 60 calendar days after it receives a final billing from the CITY, pay CITY either an amount equal to at least ninety-five percent (95%) of the cost of the relocation if STATE is performing an audit or one hundred percent (100%) if STATE is not performing an audit. STATE shall reimburse CITY for all appropriate charges in accordance with the provisions of 23 CFR Part 645 Subpart A. If performing an audit, STATE shall cause the audit report to be completed within 180 calendar days after it receives the final billing from CITY. Upon receipt of the audit report (not to exceed 180 calendar days after it receives the final billing from CITY), STATE shall remit payment of the remaining five percent (5%) minus any exceptions identified in the audit report. Party may – but is not obligated to – submit monthly progress billings in addition to the final statement referenced, as the adjustment work progresses. Party shall, within sixty (60) calendar days after it receives the monthly progress billing, pay the amount of that billing. During that 60-day period, Party's assigned inspector may verify that the work has been performed and the items for which the monthly billing applies have been purchased for use on the described project. Such monthly billings shall not be held pending audit.

9. The accounts and records of CITY pertaining to the adjustments shall be subject to audit by representatives of STATE and/or the Federal Highway Administration for a period of three (3) years after CITY has received or made final payment. CITY shall retain the financial records relating to the adjustments and shall

make the records available for inspection by representatives of STATE and/or the Federal Highway Administration upon request during the course of the adjustments and for a period of not less than three (3) years after CITY has received or made final payment.

10. CITY and STATE shall record Consent to Common Use Agreements reflecting CITY's and STATE's separate and mutual rights with the appropriate descriptions contained therein. STATE shall provide CITY with Revocable and/or Non-Revocable Permits for the adjustments, depending on prior rights determination, substantially in the form attached to this Agreement as said EXHIBITS "D" and "E".

11. CITY shall not pass over or through the freeway access control fence for purposes of maintenance, repair, replacement, inspection or operation of its facilities, and shall instead achieve access from freeway interchanges, frontage roads, cross streets or other access roads. Access is not permitted from the freeway main-traveled way or ramps.

12. Notwithstanding the provisions of Paragraph 11 above, in the case of an extreme emergency involving CITY's facilities, in accordance with NAC 408.461(3) CITY shall have reasonable use of the freeway for performing emergency maintenance. CITY shall notify STATE within twenty-four (24) hours after beginning excavation.

13. All notices or other communications required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if delivered personally in hand, by telephonic facsimile with simultaneous regular mail, or mailed certified mail, return receipt requested, postage prepaid on the date posted, and addressed to the other Party at the address set forth below:

FOR STATE: STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
Jerry Hoover, Assistant Chief R/W Agent
1263 S. Stewart Street
Carson City, NV 89712
Phone: 775-888-7480
Fax: 775-888-7313
E-mail: jhoover@dot.state.nv.us

FOR CITY: Thomas L. Guinn P.E.
CARSON CITY NEVADA PUBLIC WORKS DEPARTMENT
3505 Butti Way
Carson City, NV 89701
Phone: 775-887-2355
Fax: 775-887-2112
E-mail: tguinn@carson.org

14. This Agreement and the rights and obligations of the Parties hereto shall be governed by, and construed according to, the laws of the State of Nevada. The Parties consent to the exclusive jurisdiction of the Nevada state district courts for enforcement of this Agreement.

15. It is specifically agreed between the Parties executing this Agreement that it is not intended by any of the provisions of any part of this Agreement to create in the public or any member thereof a third party beneficiary status hereunder, or to authorize anyone not a Party to this Agreement to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of this Agreement.

16. The Parties hereto represent and warrant that the person executing this Agreement on behalf of each Party has full power and authority to enter into this Agreement and that the Parties are authorized by law to perform the services set forth herein.

17. This Agreement constitutes the entire agreement of the Parties and such is intended as a complete and exclusive statement of the promises, representations, negotiations, discussions, and other agreements that may have been made in connection with the subject matter hereof. Unless an integrated attachment to this Agreement specifically displays a mutual intent to amend a particular part of this Agreement, general conflicts in language between any such attachment and this Agreement shall be construed consistent with the terms of this Agreement. Unless otherwise expressly authorized by the terms of this Agreement, no modification or amendment to this Agreement shall be binding upon the Parties unless the same is in writing and signed by the respective Parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed by their officials, thereunto duly authorized, on the date first above written.

CITY

REVIEWED AND RECOMMENDED BY:

By: _____
Robert Crowell, Mayor *Date*

District Engineer *Date*

APPROVED AS TO LEGALITY AND FORM:

Date

Paul A. Saucedo, Chief Right-of-Way Agent *Date*

APPROVED AS TO LEGALITY AND FORM:

Deputy Attorney General *Date*

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

Director *Date*

STATE OF NEVADA
CARSON CITY

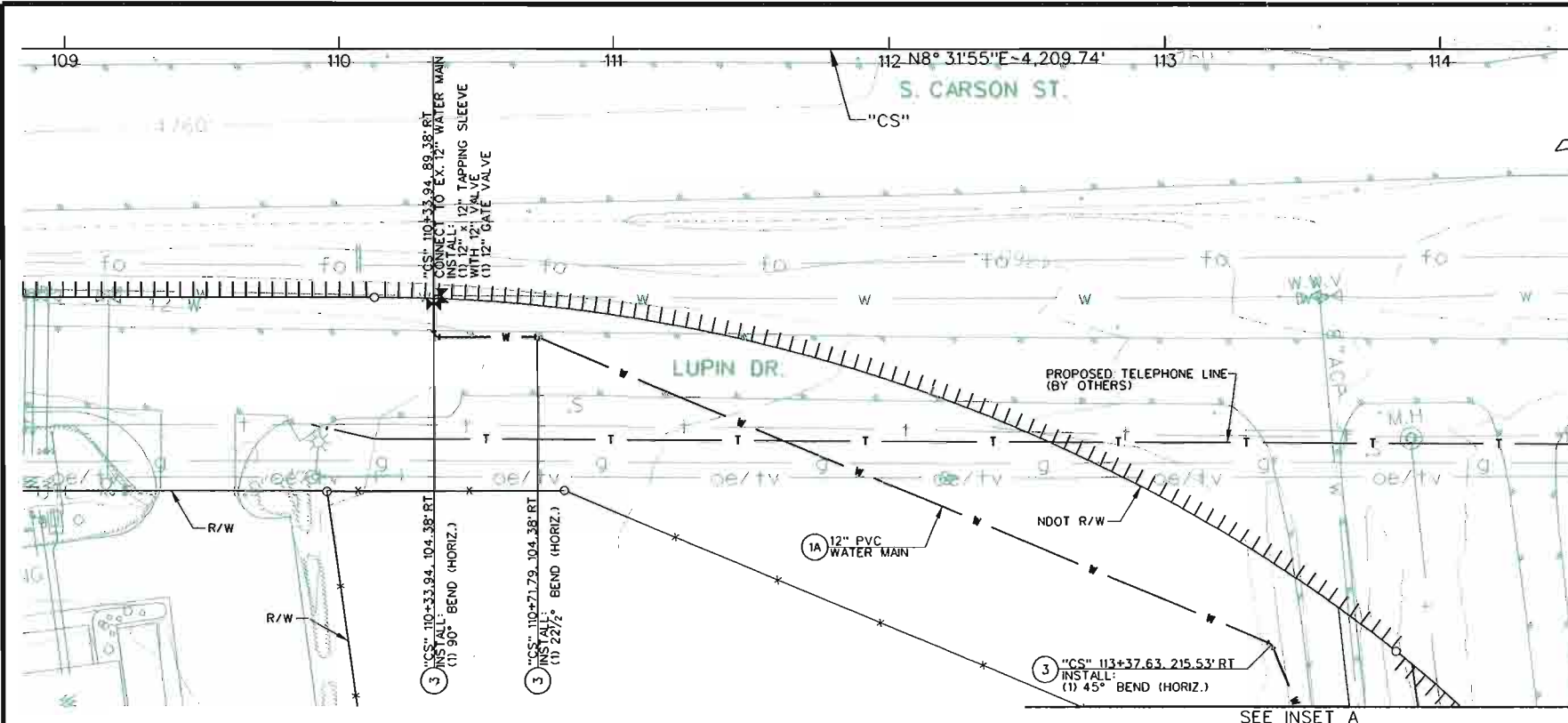
On this _____ day of _____, 20____, personally appeared before me, the undersigned, a Notary Public in and for Carson City, State of Nevada, _____ personally known (or proved) to me to be the _____ Director of the Department of Transportation of the State of Nevada who subscribed to the above instrument 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.

EXHIBIT "A"

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U13



- 1 INSTALL 8" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- 1A INSTALL 12" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- 3 INSTALL LINE LOCATION RISER PER STD. DRAWING C-1.2.2 & C-1.2.3.
- 4A INSTALL NEW 12" GATE VALVE PER STD. DRAWING C-3.1.4.
- 5C INSTALL 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER STD. DRAWING C-3.1.3.
- 12 INSTALL 12"x8" REDUCER.

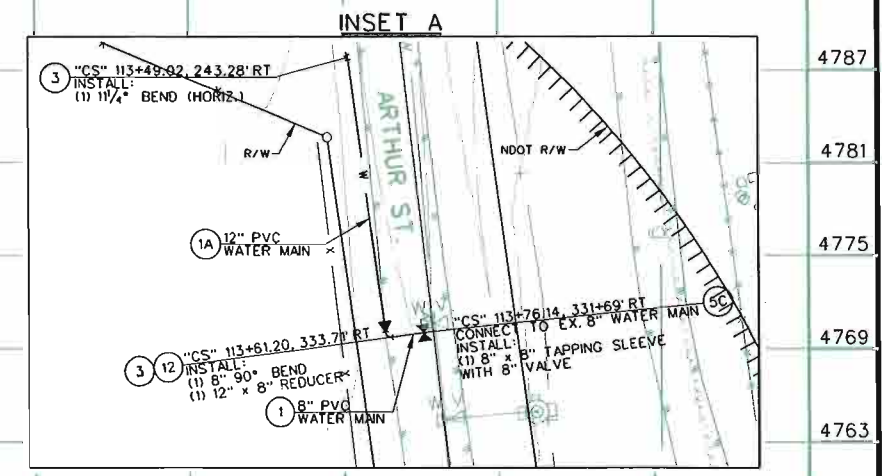
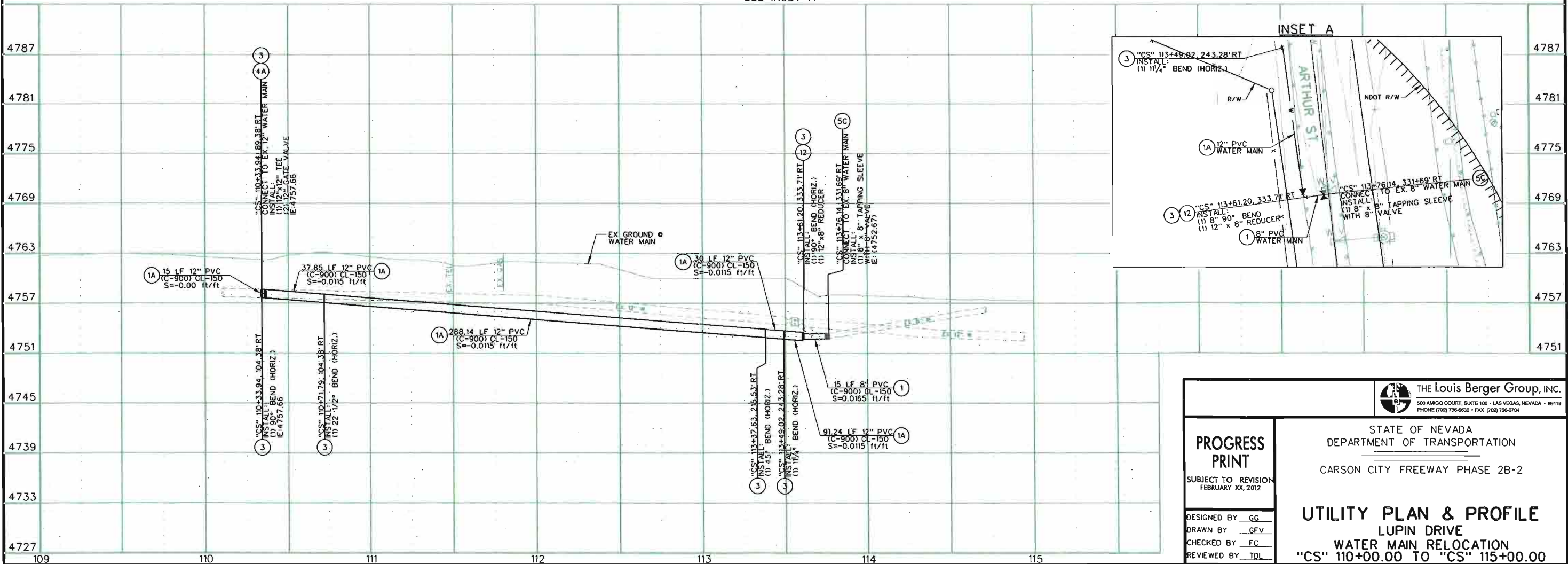
Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call

811

OR

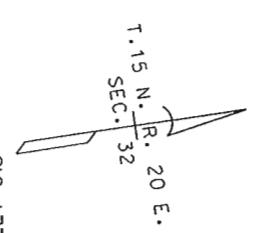
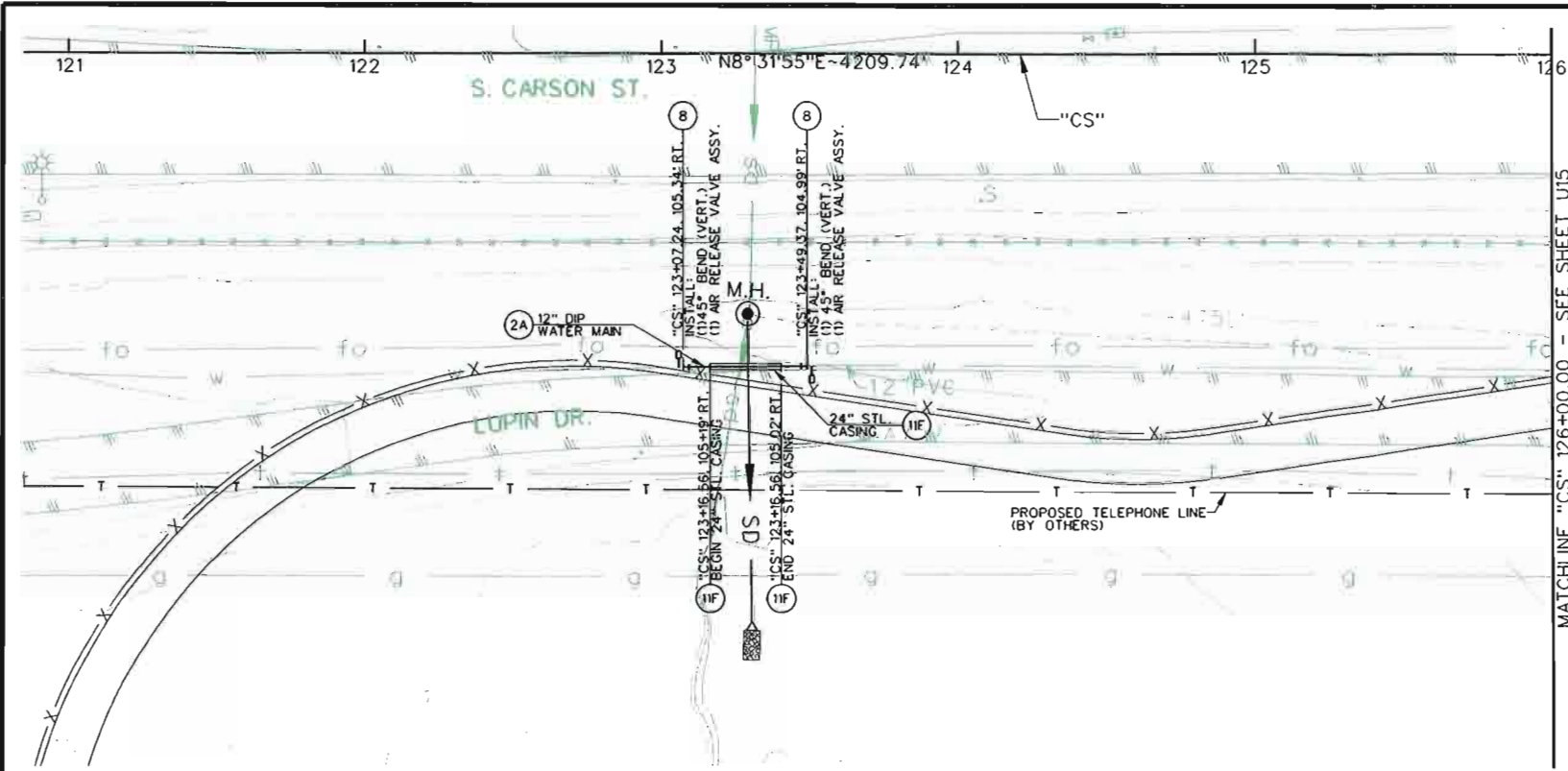
1-800-227-2600



<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY <u>GG</u></p> <p>DRAWN BY <u>GFV</u></p> <p>CHECKED BY <u>FC</u></p> <p>REVIEWED BY <u>TDL</u></p>	<p>THE Louis Berger Group, Inc.</p> <p>500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE (702) 736-9632 • FAX (702) 736-6704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p>
	<p>CARSON CITY FREEWAY PHASE 2B-2</p>
	<p>UTILITY PLAN & PROFILE LUPIN DRIVE WATER MAIN RELOCATION "CS" 110+00.00 TO "CS" 115+00.00</p>

FILE NAME: X:\870-carson bypass\2b-2\Plans\395cc72781\Sheets\012_U_Sheets\72781.shl 2B-2_CCUtilityPlan003.dgn - 12/30/2011 - 9:57:09 GFV

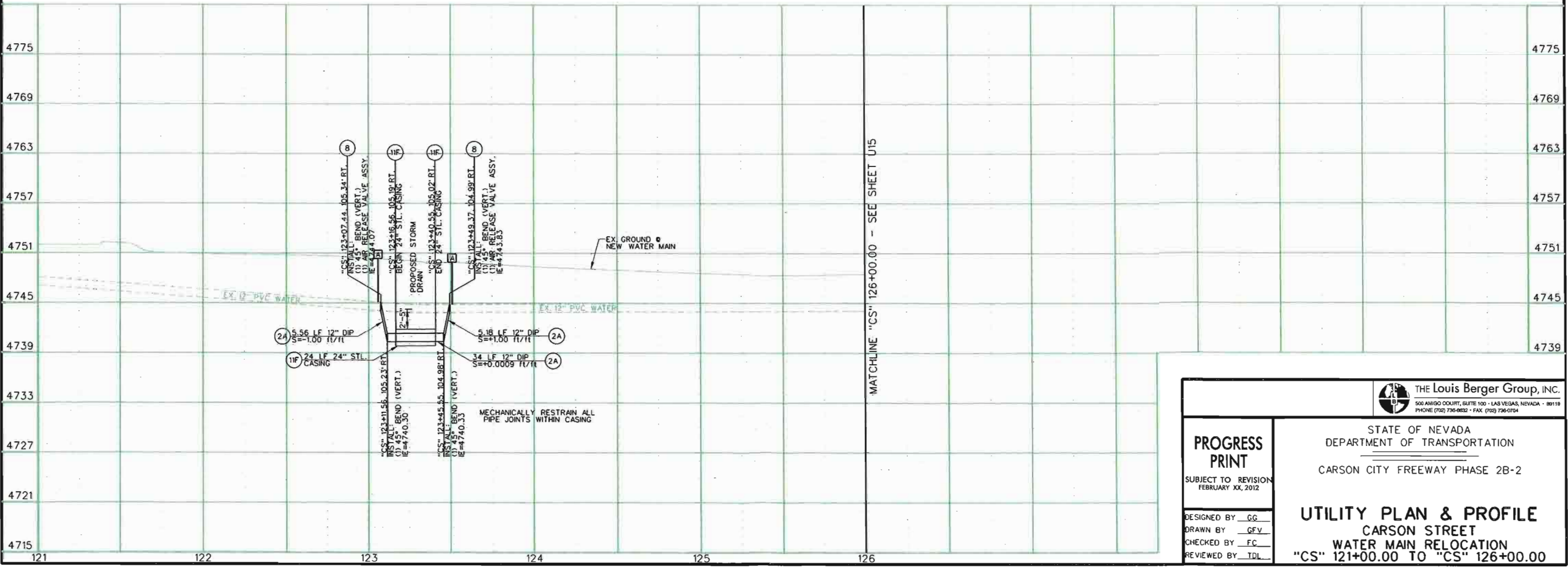
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U14



- (2A) INSTALL 12" DIP (PRESSURE CLASS 350) WATER MAIN WITH RESTRAINED JOINTS PER STD. DRAWING C-3.1.8.
- (B) INSTALL AIR RELEASE VALVE ASSEMBLY PER STD. DRAWING C-3.1.10.
- (11F) INSTALL 24" - 3/8" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.

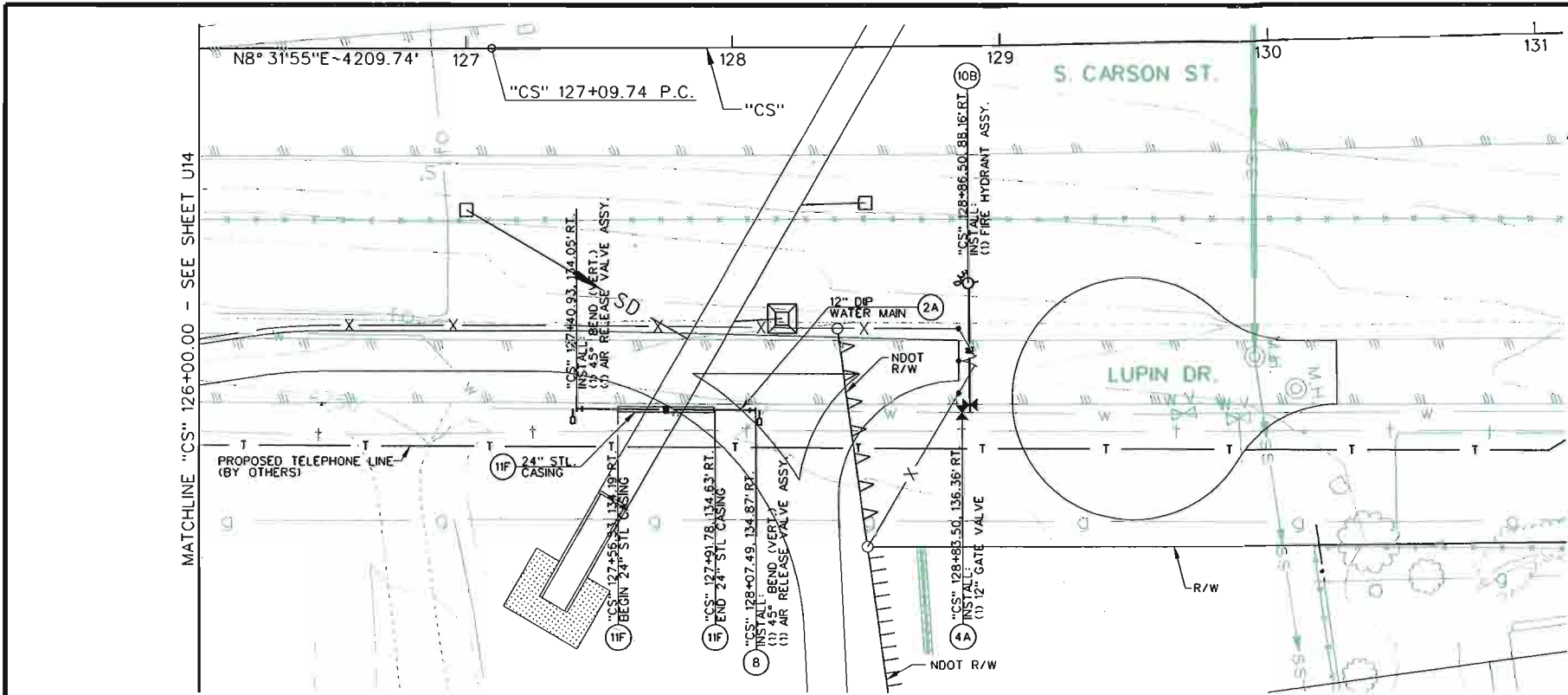


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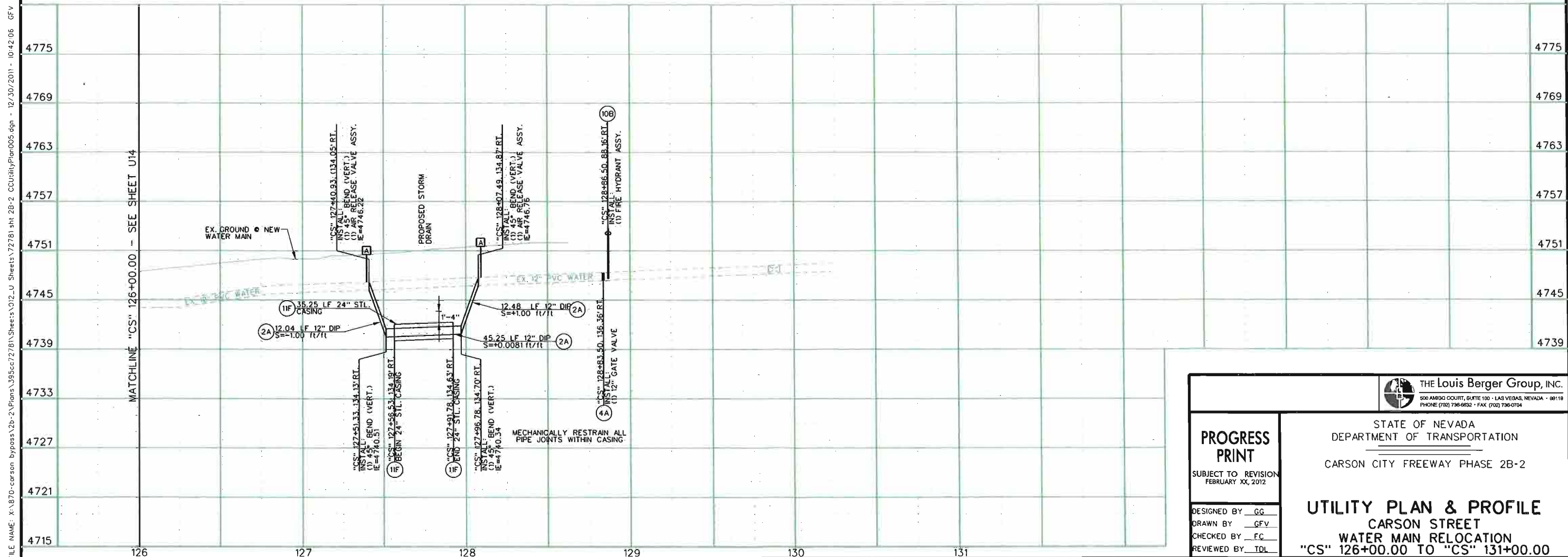
<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY: <u>GC</u> DRAWN BY: <u>GFV</u> CHECKED BY: <u>FC</u> REVIEWED BY: <u>TDL</u></p>	<p>THE Louis Berger Group, Inc. 500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE (702) 736-8832 - FAX (702) 736-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE CARSON STREET WATER MAIN RELOCATION "CS" 121+00.00 TO "CS" 126+00.00</p>

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U15



T.15 N. R. 20 E.
SEC. 32

- (2A) INSTALL 12" DIP (PRESSURE CLASS 350) WATER MAIN WITH RESTRAINED JOINTS PER STD. DRAWING C-3.1.8.
- (4A) INSTALL NEW 12" GATE VALVE PER STD. DRAWING C-3.1.4.
- (8) INSTALL AIR RELEASE VALVE ASSEMBLY PER STD. DRAWING C-3.1.10.
- (10B) INSTALL FIRE HYDRANT ASSEMBLY PER STD. DRAWING C-3.1.7.
- (11F) INSTALL 24"-3/8" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.

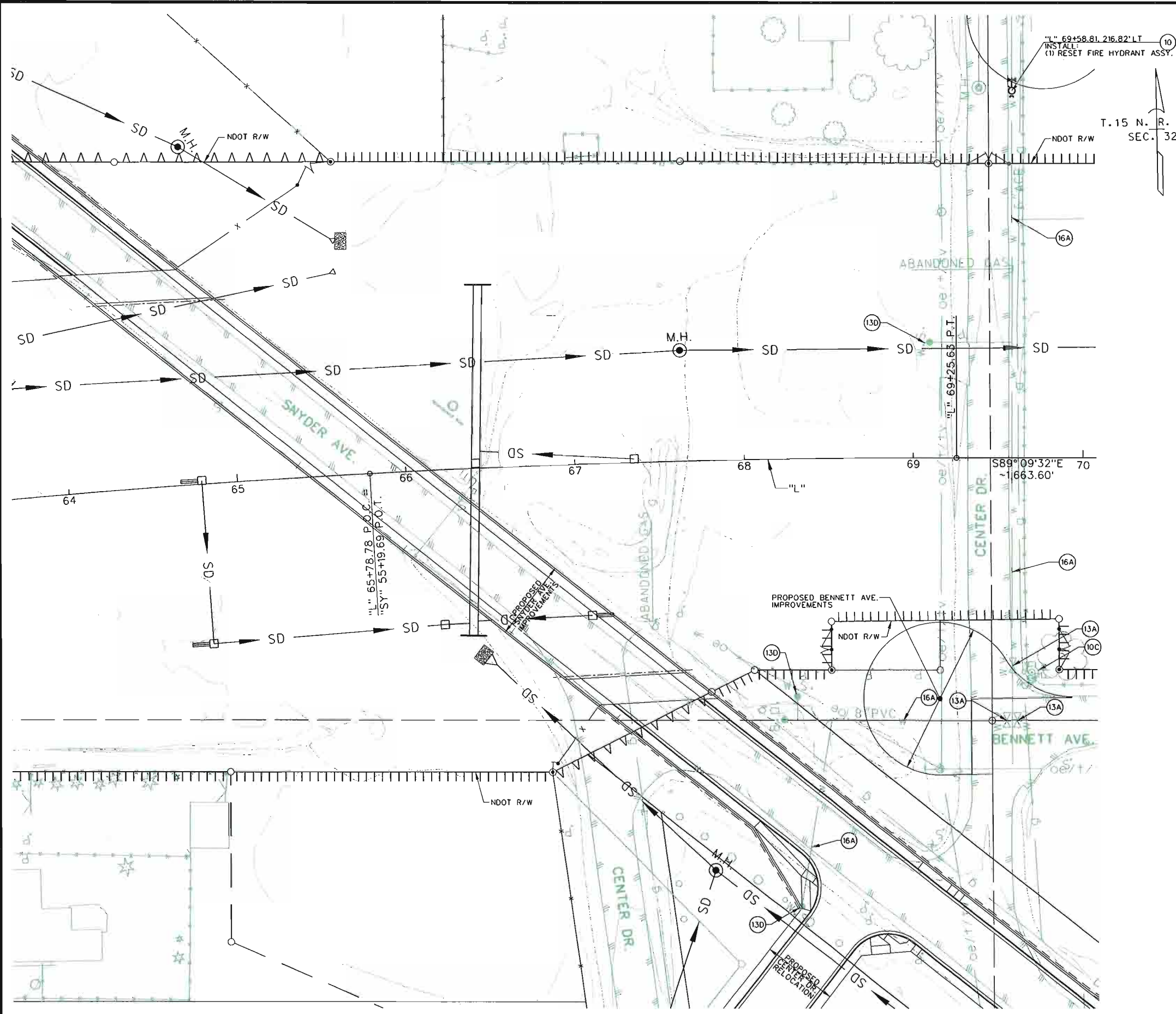


<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY <u>GG</u> DRAWN BY <u>GFV</u> CHECKED BY <u>FC</u> REVIEWED BY <u>TDL</u></p>	<p>THE Louis Berger Group, Inc. 500 AMBRO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119 PHONE (702) 736-9532 • FAX (702) 736-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE CARSON STREET WATER MAIN RELOCATION "CS" 126+00.00 TO "CS" 131+00.00</p>

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EXHIBIT "A"

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U16



T. 15 N. R. 20 E.
SEC. 32

- 10 RESET FIRE HYDRANT ASSEMBLY PER STD. DRAWING C-3.1.7.
- 10C REMOVE EXISTING FIRE HYDRANT.
- 13A REMOVE EXISTING WATER VALVE.
- 13D ABANDON WATER SERVICE.
- 16A REMOVE EXISTING WATER MAINLINE, REMOVE AND DISPOSE OF ALL PORTIONS OF THE EXISTING WATER MAIN.

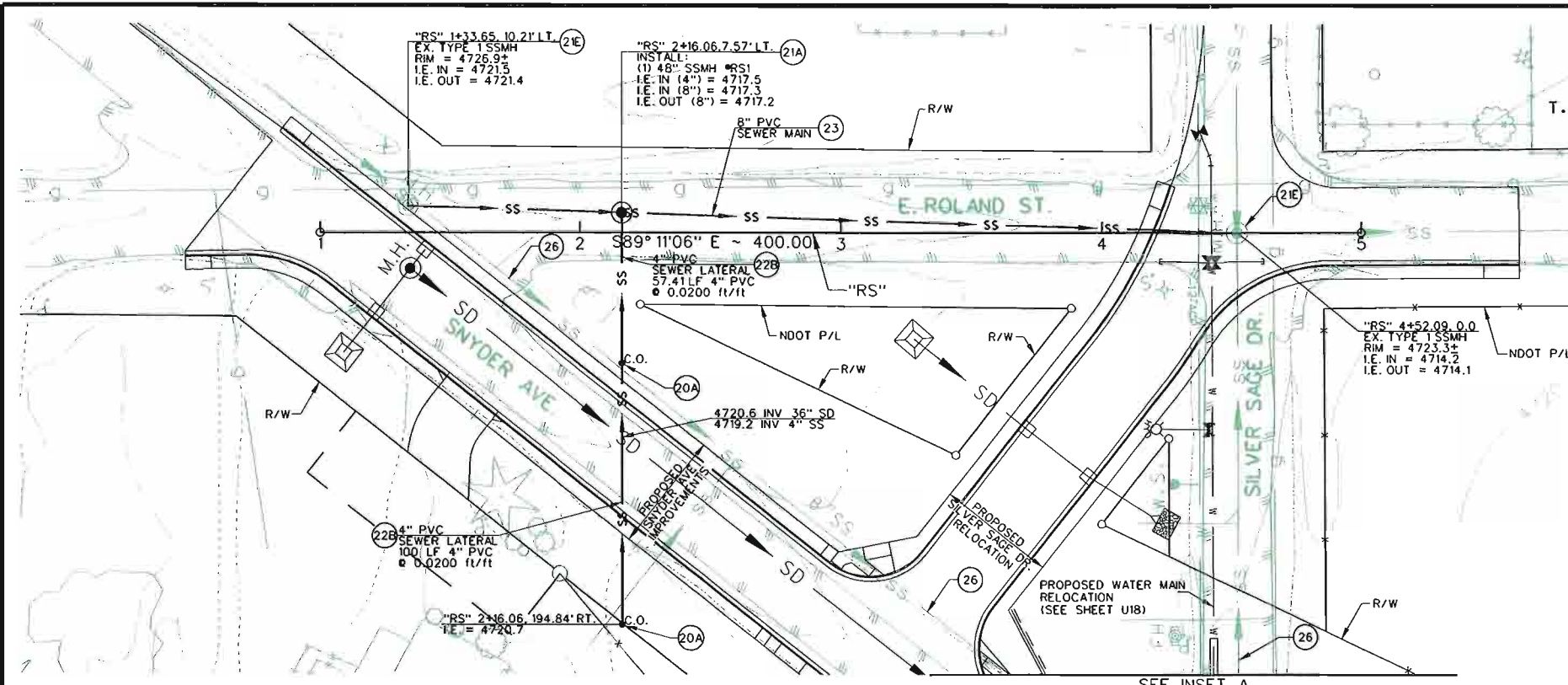


<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY: GG DRAWN BY: GFV CHECKED BY: FC REVIEWED BY: TDL</p>	<p>THE Louis Berger Group, INC.</p> <p>500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE (702) 796-9832 • FAX (702) 796-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN CENTER DRIVE WATER ABANDONMENT "L" 64+00.00 TO 70+00.00</p>

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STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U17

T.15 N. R. 20 E.
SEC. 32



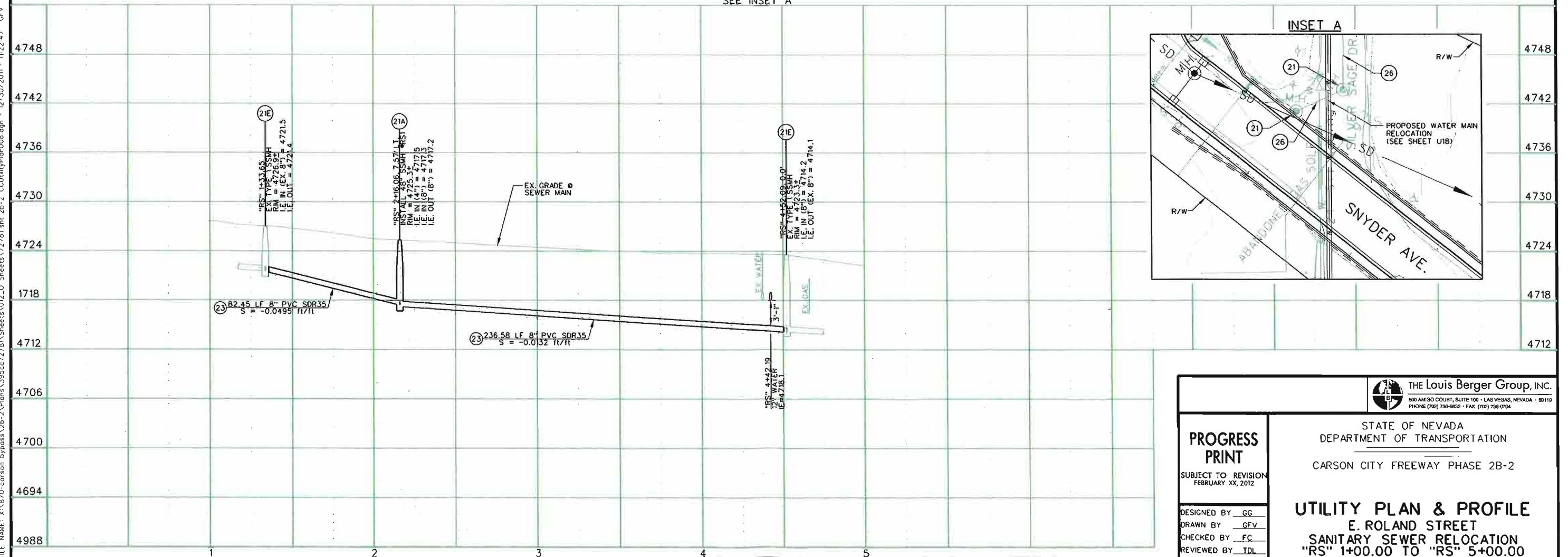
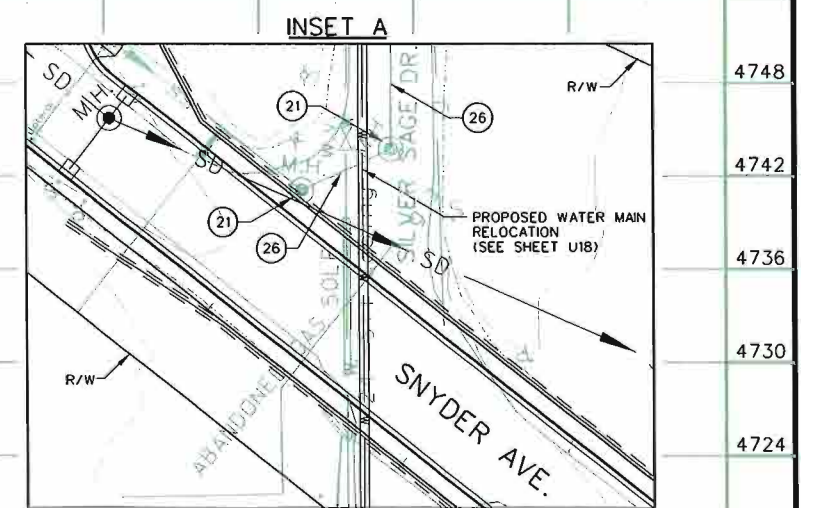
- 20A INSTALL 4" SEWER CLEANOUT PER STD. DRAWING C-2.2.3
- 21 REMOVE EXISTING SANITARY SEWER MANHOLE.
- 21A INSTALL 48 INCH MANHOLE TYPE 1 PER STD. DRAWING C-2.1.3
- 21E CONNECT 8" PVC TO EXIST. SSMH. CUT, PLUG AND RESHAPE TO FORM SMOOTH CURVE IN MANHOLE BASE FOR NEW SEWER OUTLET OR INLET.
- 22B INSTALL 4 INCH SEWER LATERAL PER STD. DRAWING C-2.2.1
- 23 INSTALL 8" PVC SDR35 SEWER LINE PER STD. DRAWING C-1.2.1.
- 26 ABANDON EXISTING SANITARY SEWER. CUT, PLUG AND SLURRY FILL EXISTING SEWER MAINS ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF THE EXISTING SEWER THAT CONFLICTS WITH NEW SEWER MAIN CONSTRUCTION.

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call 811

OR
1-800-227-2600

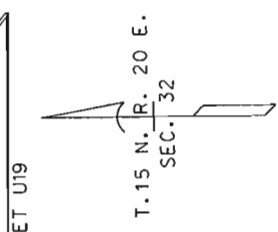
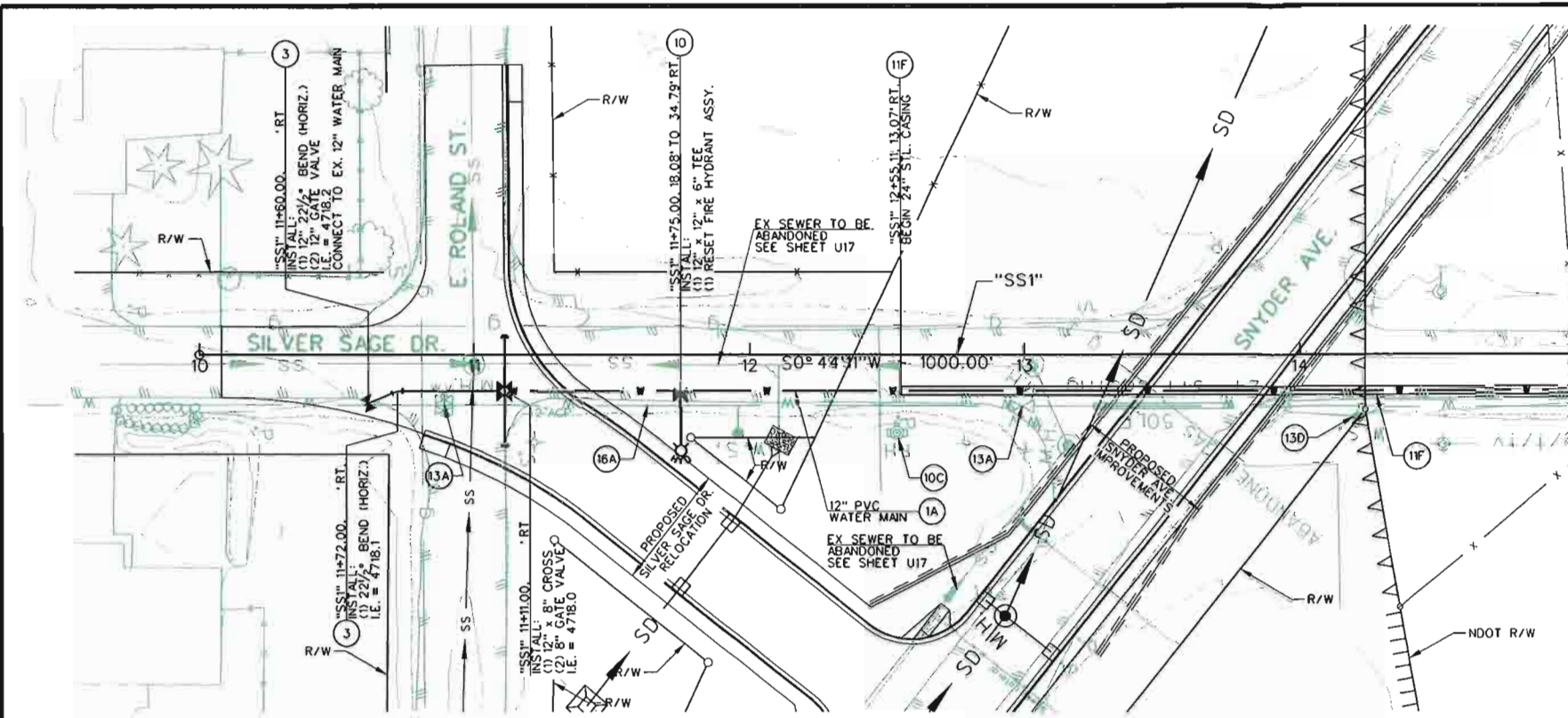
SEE INSET A



<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY: GC DRAWN BY: GFV CHECKED BY: FC REVIEWED BY: TDL</p>	<p>THE Louis Berger Group, Inc.</p> <p>500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119 PHONE: (702) 796-6632 • FAX: (702) 796-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p>
	<p>UTILITY PLAN & PROFILE</p> <p>E. ROLAND STREET SANITARY SEWER RELOCATION "RS" 1+00.00 TO "RS" 5+00.00</p>

FILE NAME: X:\870-carson bypass\2b-2\Plans\395cc\2781\Sheets\012_U_Sheets\72781.shx 2B-2_CCUtilityPlan006.dgn - 12/30/2011 - 11:22:47 GFV

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U18

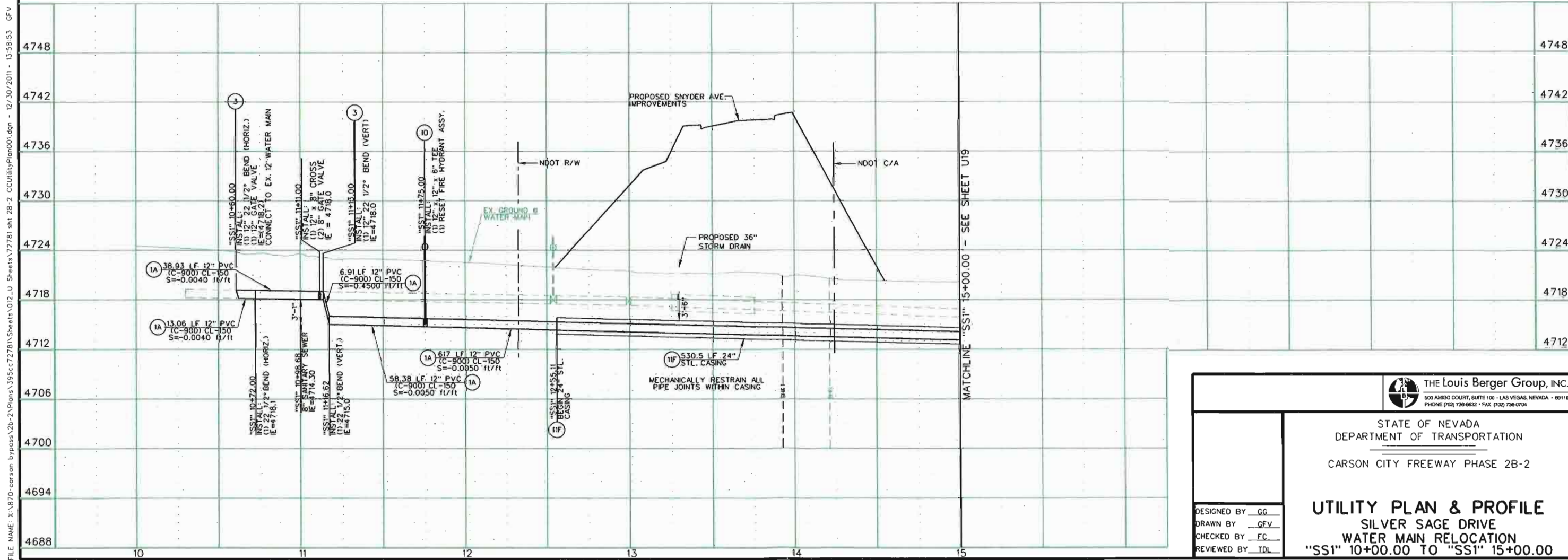


- (1A) INSTALL 12" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- (3) INSTALL LINE LOCATION RISER PER STD. DRAWING C-1.2.2 & C-1.2.3.
- (10) RESET FIRE HYDRANT ASSEMBLY PER STD DRAWING C-3.1.7.
- (10C) REMOVE EXISTING FIRE HYDRANT.
- (11F) INSTALL 24"-X" STEEL CASING SEE CASING ASSEMBLY DETAIL SHEET U28.
- (13A) REMOVE EXISTING WATER VALVE.
- (30) ABANDON WATER SERVICE.
- (16A) REMOVE EXISTING WATER MAIN LINE, REMOVE AND DISPOSE OF ALL PORTIONS OF EXISTING WATER MAIN.

Call before you Dig
Avoid cutting underground utility lines, it's costly.

Call 811

OR
1-800-227-2600



THE Louis Berger Group, INC.
500 AMIGO COURT, SUITE 110 - LAS VEGAS, NEVADA - 89119
PHONE (702) 736-9632 • FAX (702) 736-0704

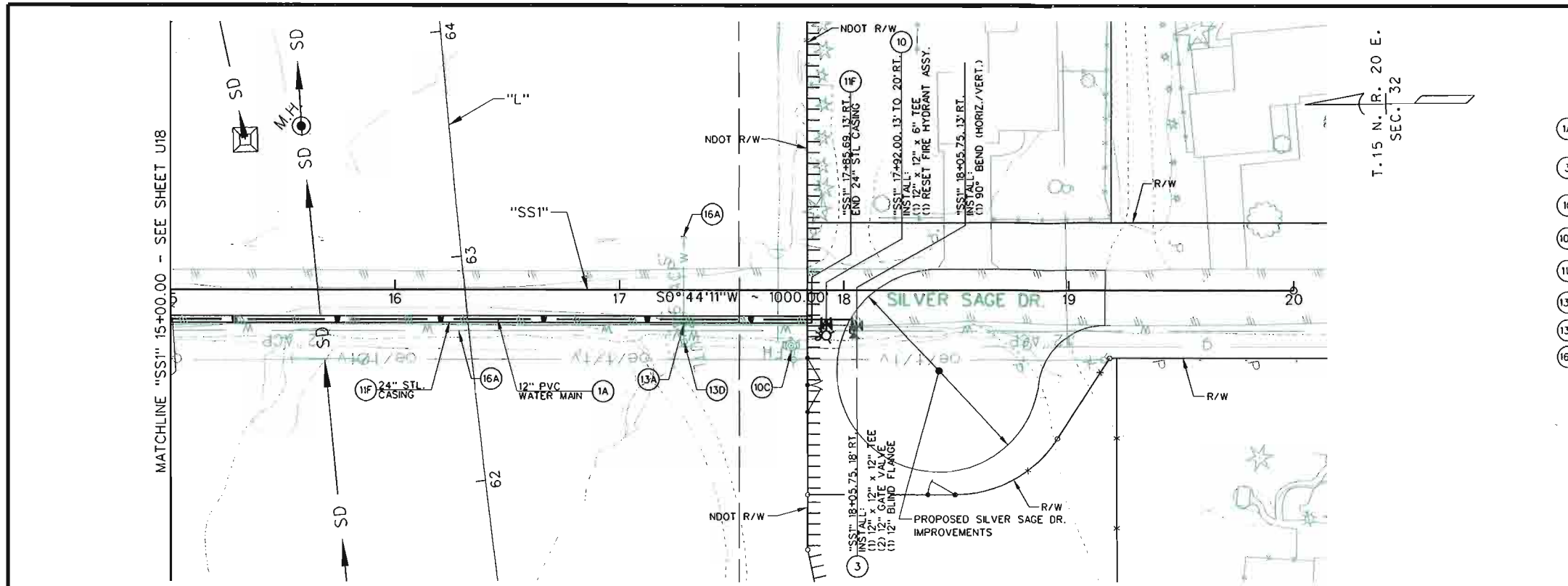
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION
CARSON CITY FREEWAY PHASE 2B-2

UTILITY PLAN & PROFILE
SILVER SAGE DRIVE
WATER MAIN RELOCATION
"SS1" 10+00.00 TO "SS1" 15+00.00

DESIGNED BY: GG
DRAWN BY: GFV
CHECKED BY: FC
REVIEWED BY: TDL

FILE NAME: X:\870-corsor-bypass\2b-2\Plans\395cc72781\Sheets\012_U_Sheets\72781.shi.2B-2_CCUtilityPlan001.dgn - 12/30/2011 - 13:59:53 GFV

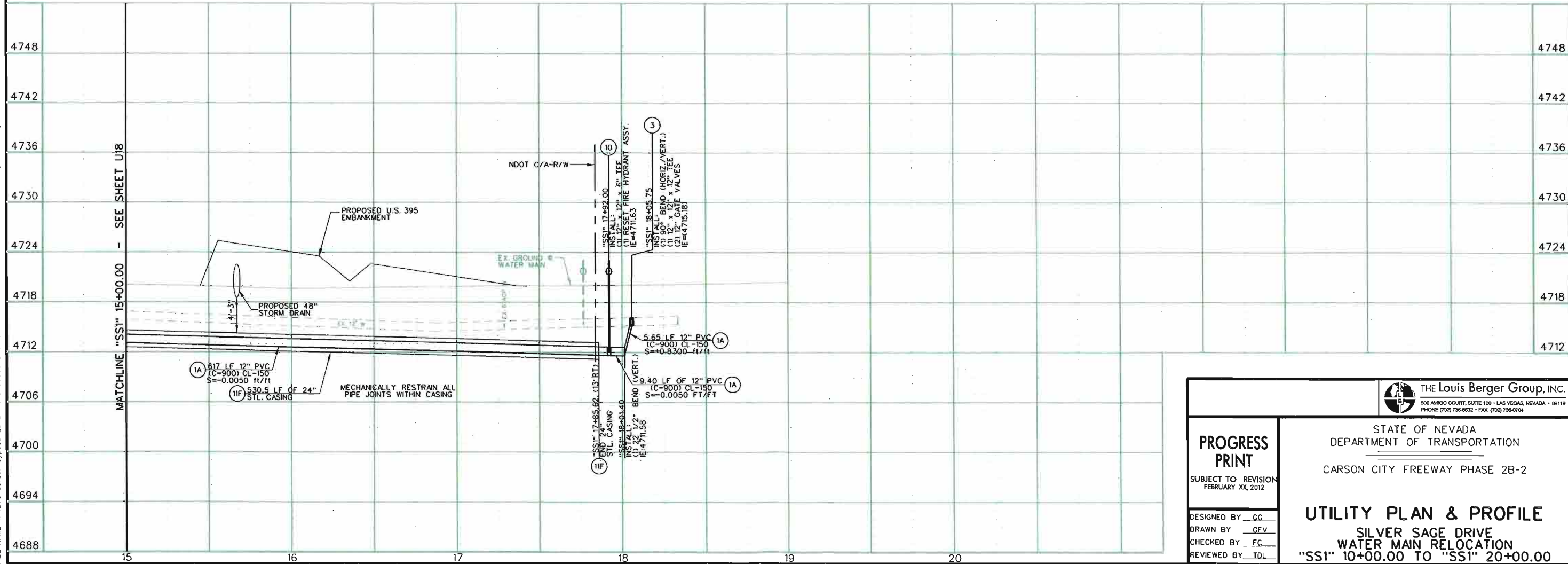
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U19



- 1A INSTALL 12" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- 3 INSTALL LINE LOCATION RISER PER STD. DRAWING C-1.2.2 & C-1.2.3.
- 10 RESET FIRE HYDRANT ASSEMBLY PER STD. DRAWING C-3.1.7.
- 10C REMOVE EXISTING FIRE HYDRANT.
- 11F INSTALL 24"-3/4" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.
- 13A REMOVE EXISTING WATER VALVE.
- 13D ABANDON WATER SERVICE.
- 16A REMOVE EXISTING WATER MAIN LINE, REMOVE AND DISPOSE OF ALL PORTIONS OF EXISTING WATER MAIN.

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call
811
OR
1-800-227-2600

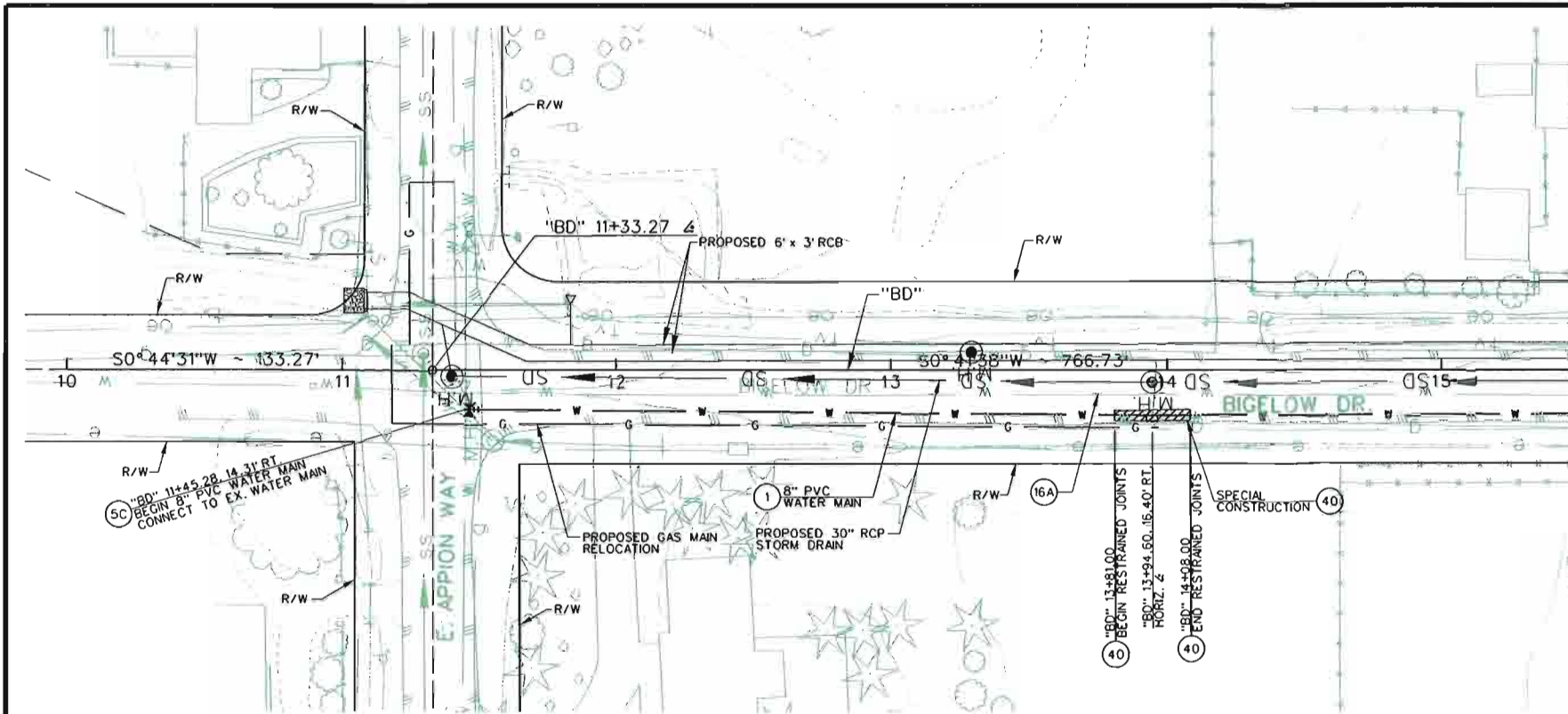


<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p>	<p>DESIGNED BY <u>GC</u></p> <p>DRAWN BY <u>GFV</u></p> <p>CHECKED BY <u>FC</u></p> <p>REVIEWED BY <u>TDL</u></p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE SILVER SAGE DRIVE WATER MAIN RELOCATION "SS1" 10+00.00 TO "SS1" 20+00.00</p>

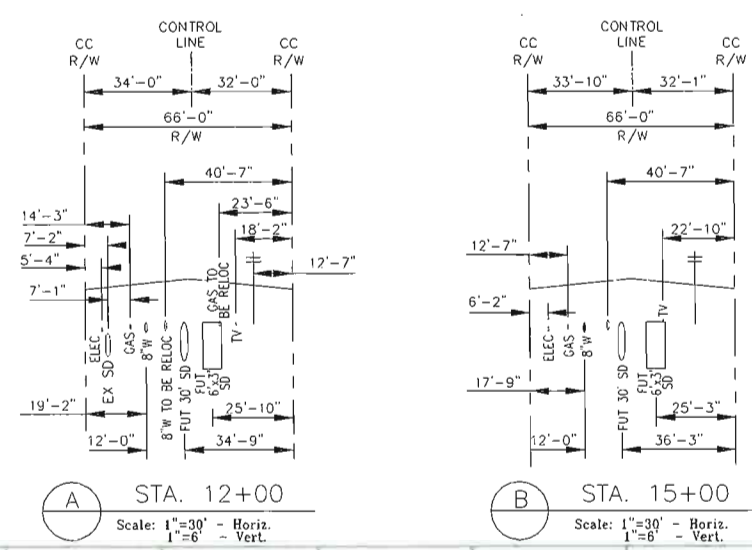
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STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U20

- 1 INSTALL 8" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- 5C INSTALL 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER STD. DRAWING C-3.1.3.
- 16A REMOVE EXISTING WATER MAINLINE. REMOVE AND DISPOSE OF ALL PORTIONS OF THE EXISTING WATER MAIN.
- 40 SPECIAL CONSTRUCTION - RESTRAIN WATER MAIN PIPE.



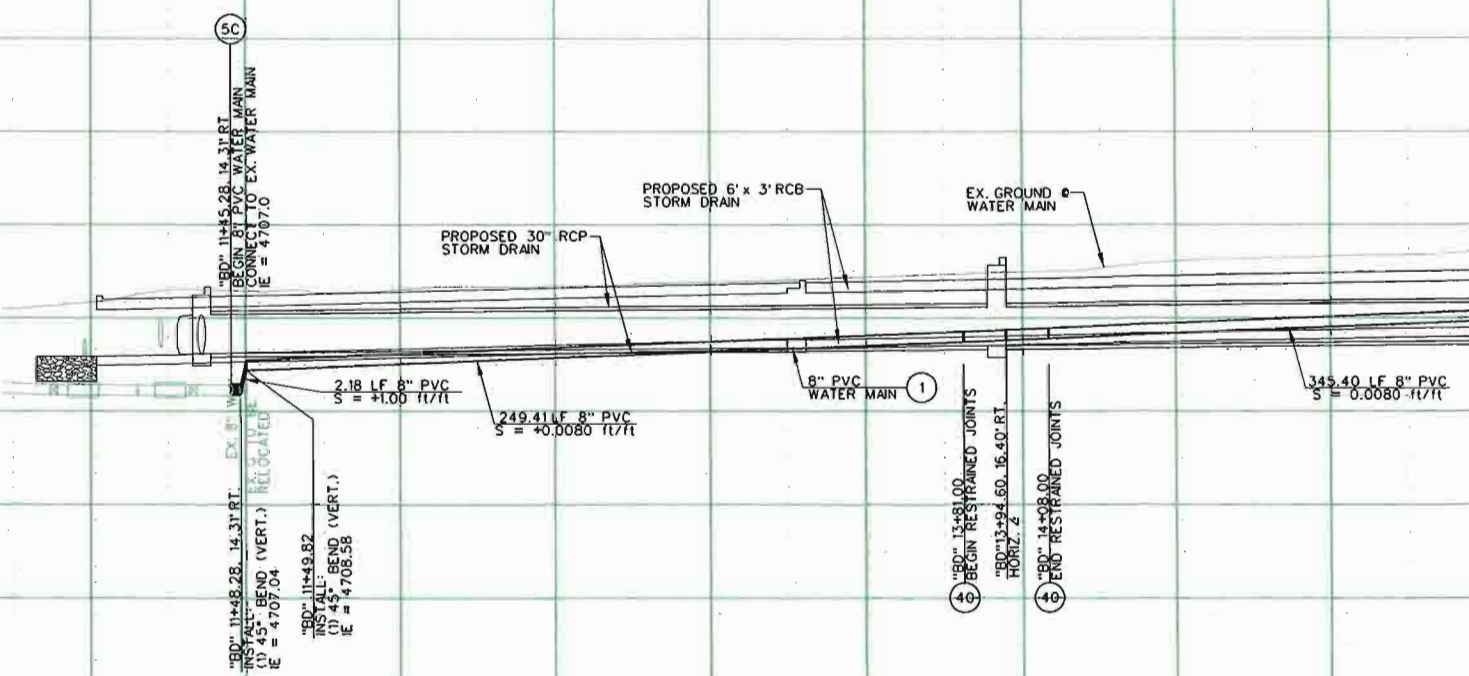
T.15 N. R. 20 E.
SEC. 32



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Avoid cutting underground utility lines. It's costly.
Call

OR
1-800-227-2600

4736						4736
4730						4730
4724						4724
4718						4718
4712						4712
4706						4706
4700						4700
4694						
4688						
4682						
4676						

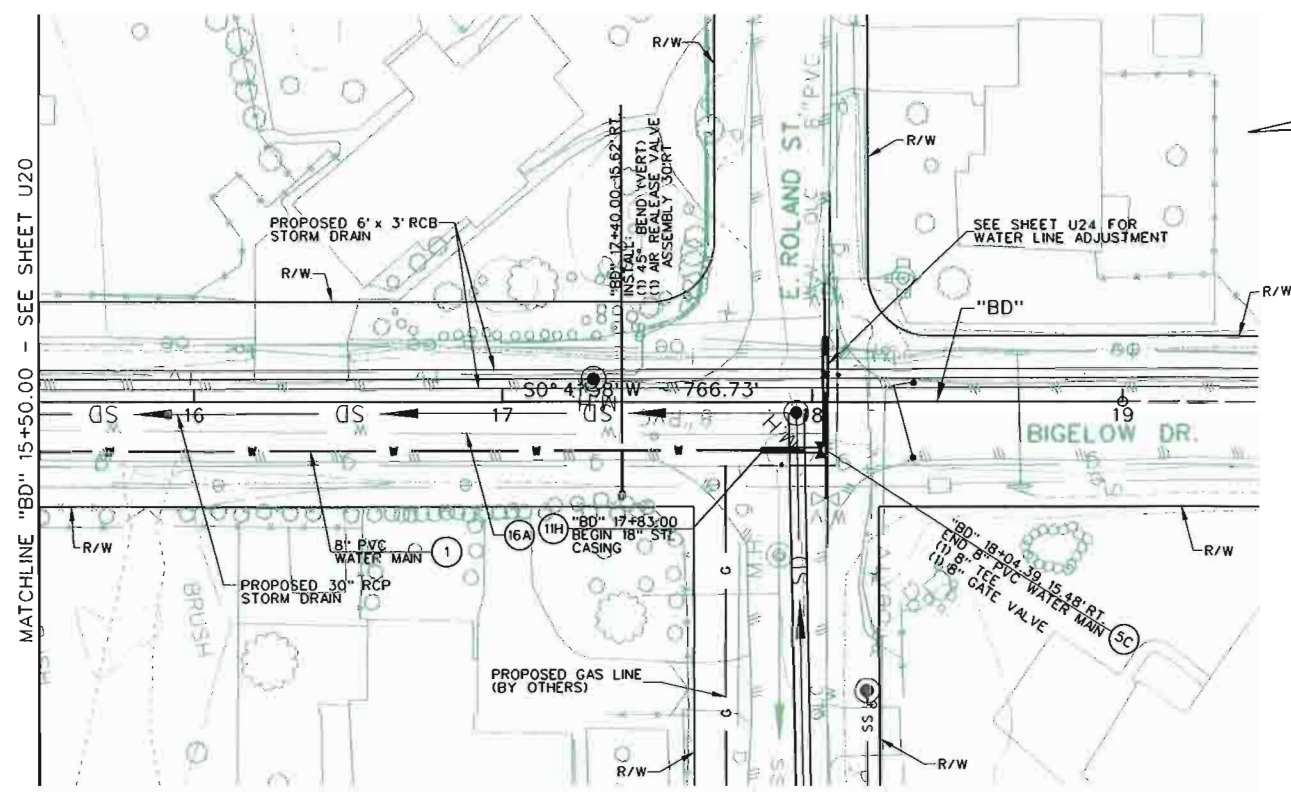


<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY <u>GG</u> DRAWN BY <u>GFV</u> CHECKED BY <u>FC</u> REVIEWED BY <u>TDL</u></p>	<p>THE Louis Berger Group, Inc.</p> <p>500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE (702) 736-8833 - FAX (702) 736-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p>
	<p>UTILITY PLAN & PROFILE</p> <p>BIGELOW DRIVE</p> <p>WATER MAIN RELOCATION</p> <p>"BD" 10+00.00 TO "BD" 15+50.00</p>

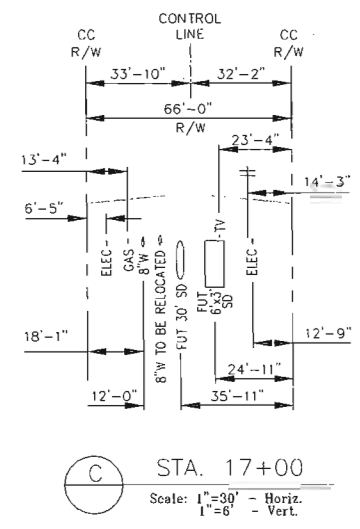
FILE NAME: X:\870-corson bypass\2b-2\Plans\395cc\2781\Sheets\012_U_Sheets\72781.dwg - 12/30/2011 - 14:59:45 GFV

EXHIBIT "A"

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U21



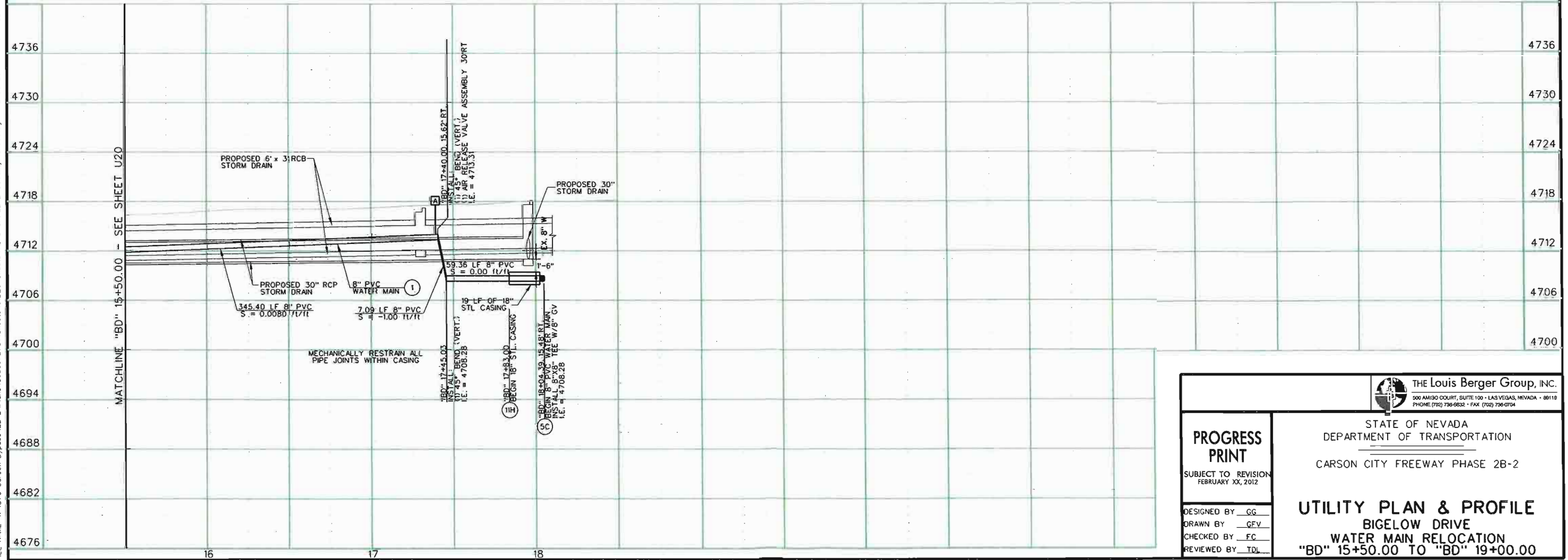
T. 15 N. R. 20 E.
SEC. 32



- ① INSTALL 8" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- ⑤C INSTALL 8"x8" TAPPING SLEEVE AND 8" TAPPING VALVE PER STD. DRAWING C-3.1.3.
- ①H INSTALL 18"-1/4" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.
- ①6A REMOVE EXISTING WATER MAINLINE. REMOVE AND DISPOSE OF ALL PORTIONS OF THE EXISTING WATER MAIN. 1/4" PLATE STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28. 1/4" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.



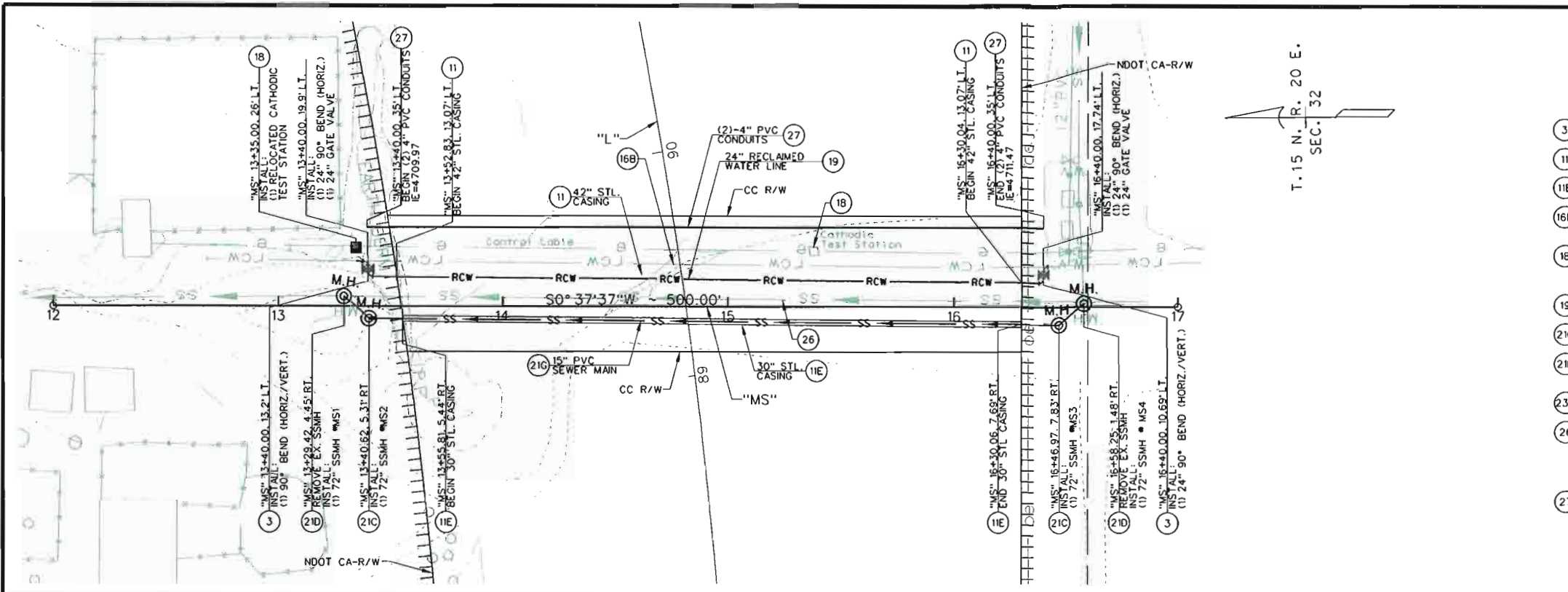
FILE NAME: X:\B70-Corson Bypass\2B-2\Plans\395cc\72781\Sheets\012_U_Sheets\72781.sht 2B-2 CCUtilityPlan009.dgn - 12/30/2011 - 9:09:41 ELC



<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY <u>GG</u> DRAWN BY <u>GFV</u> CHECKED BY <u>FC</u> REVIEWED BY <u>TDL</u></p>	<p>THE Louis Berger Group, INC.</p> <p>300 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE: (702) 736-8832 - FAX: (702) 736-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE BIGELOW DRIVE WATER MAIN RELOCATION "BD" 15+50.00 TO "BD" 19+00.00</p>

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U22

T.15 N. R. 20 E.
SEC. 32



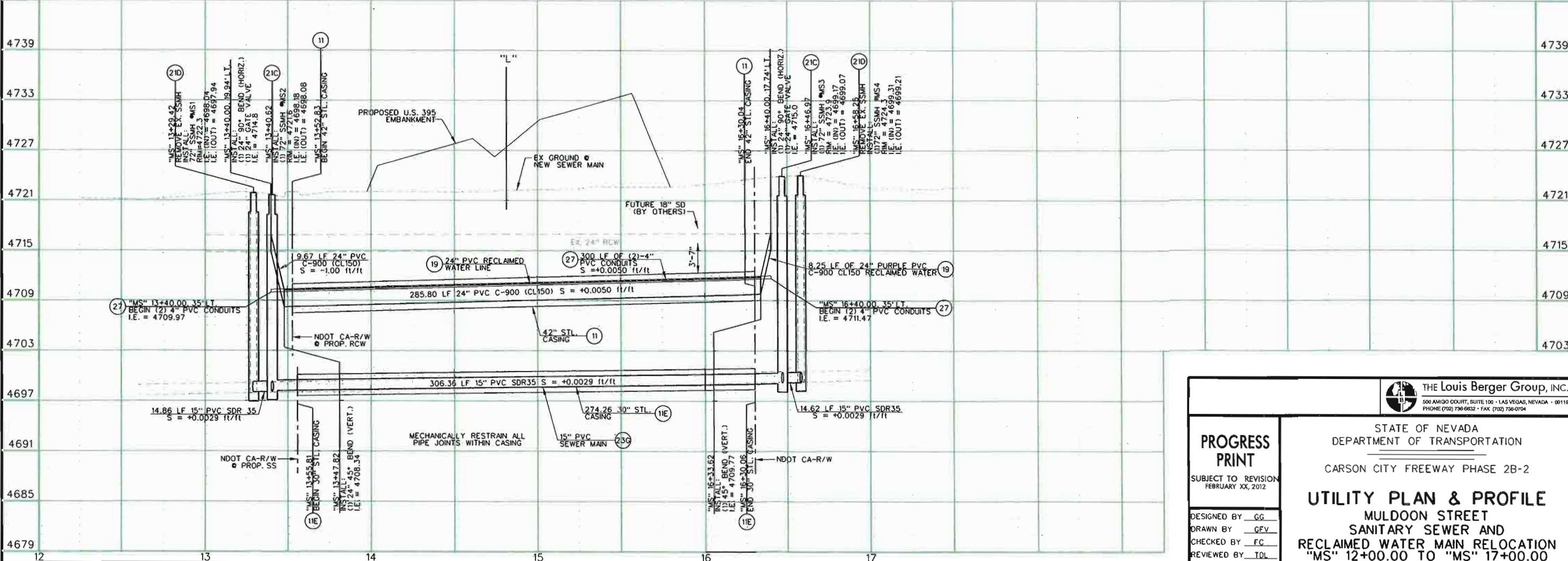
- 3) INSTALL LINE LOCATION RISER PER STD. DRAWING C-1.2.2 & C-1.2.3.
- 11) INSTALL 42" 1/2" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.
- 11E) INSTALL 30" 1/2" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.
- 16B) REMOVE EXISTING RECLAIMED WATERLINE. REMOVE AND DISPOSE OF ALL PORTIONS OF EXISTING RECLAIMED WATERLINE.
- 18) REMOVE AND RELOCATE EXISTING CATHODIC TEST STATION. PROVIDE CATHODIC PROTECTION FOR NEW RECLAIMED WATERLINE AND LOCATE TEST STATION OUTSIDE NDOT ROW.
- 19) INSTALL 24" PURPLE PVC C-900 CL150 RECLAIMED WATER LINE.
- 21C) INSTALL 72" MANHOLE TYPE 1. PER STD. DRAWING C-2.1.3.
- 21D) REMOVE EXISTING MANHOLE AND REPLACE WITH 72" MANHOLE TYPE 1. PER STD DRAWINGS C-2.1.3.
- 23G) INSTALL 15" PVC SDR35 SEWER LINE. PER STD. DRAWINGS C-1.2.1.
- 26) ABANDON EXISTING SANITARY SEWER. CUT, PLUG AND SLURRY FILL EXISTING SEWER MAIN ABANDONED IN PLACE. REMOVE AND DISPOSE OF ALL PORTIONS OF EXISTING SEWER THAT CONFLICTS WITH NEW SEWER MAIN CONSTRUCTION.
- 27) INSTALL TWO-4" PVC CONDUITS (SDR-35) FOR FUTURE USE.

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Avoid cutting underground utility lines. It's costly.

Call 811

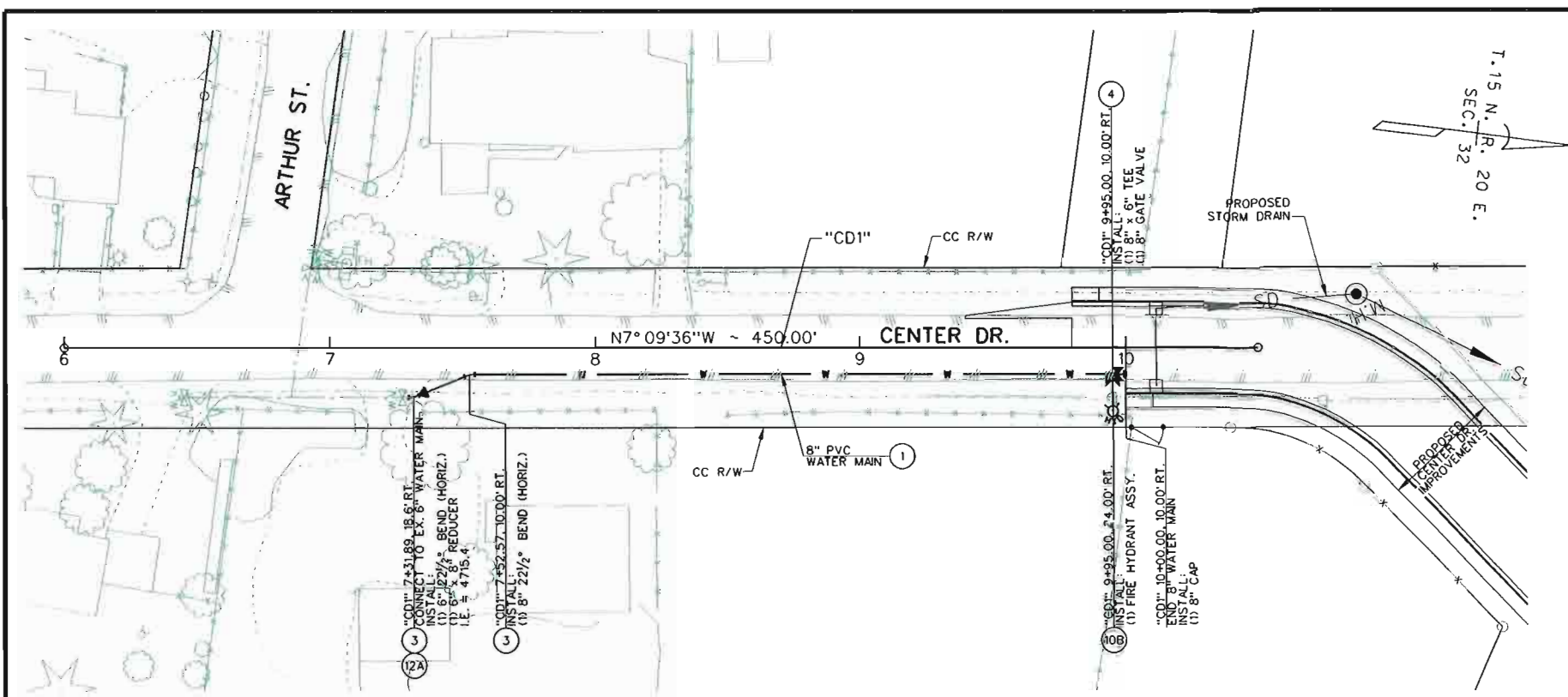
OR
1-800-227-2600

FILE NAME: X:\870-Corson Bypass\2B-2\Plans\395Sec72781\Sheets\012_U_Sheets\72781.sht 2B-2 CCUtilityPlan010.dgn - 1/5/2012 - 10:04:03 SSM



<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY: GG DRAWN BY: GEV CHECKED BY: FC REVIEWED BY: TDL</p>	<p>THE Louis Berger Group, Inc.</p> <p>500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89118 PHONE (702) 736-6832 • FAX (702) 736-0704</p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p>
	<p>UTILITY PLAN & PROFILE</p> <p>MULDOON STREET SANITARY SEWER AND RECLAIMED WATER MAIN RELOCATION "MS" 12+00.00 TO "MS" 17+00.00</p>
	<p>MECHANICALLY RESTRAIN ALL PIPE JOINTS WITHIN CASING</p>

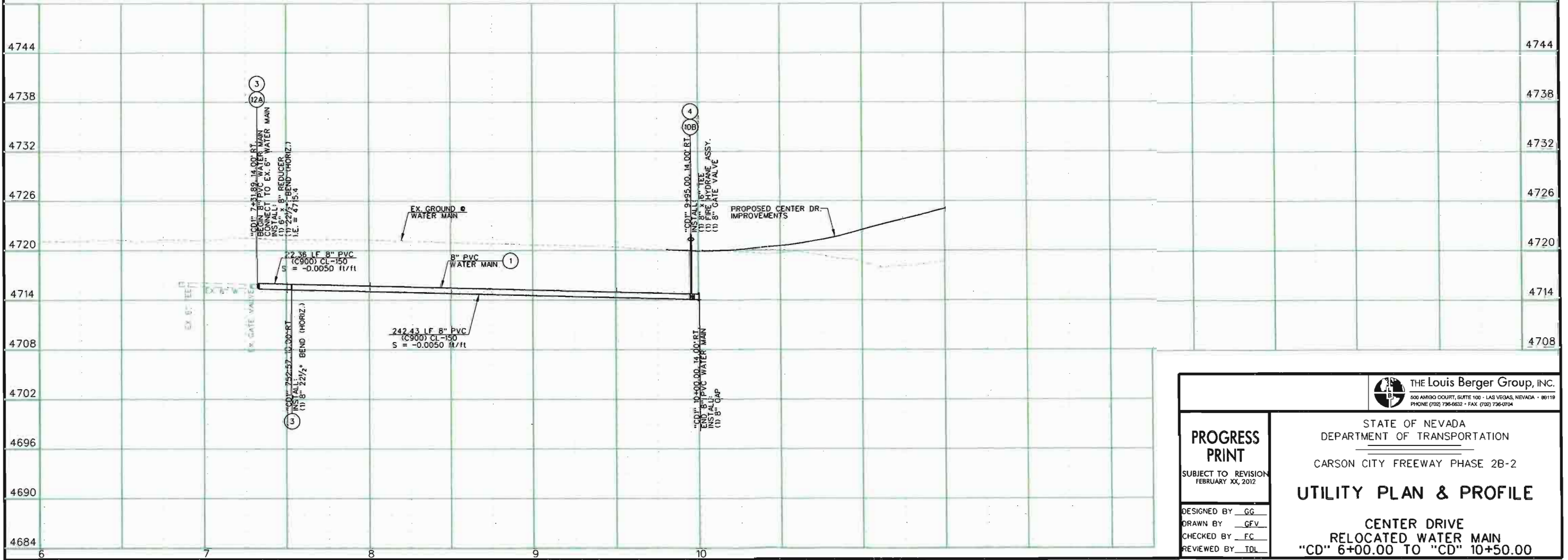
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U23



- ① INSTALL 8" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- ③ INSTALL LINE LOCATION RISER PER STD. DRAWING C-1.2.2 & C-1.2.3.
- ④ INSTALL NEW 8" GATE VALVE PER STD. DRAWING C-3.1.4.
- 10B INSTALL FIRE HYDRANT ASSEMBLY PER STD. DRAWING C-3.1.7.
- 12A INSTALL 6"X8" REDUCER

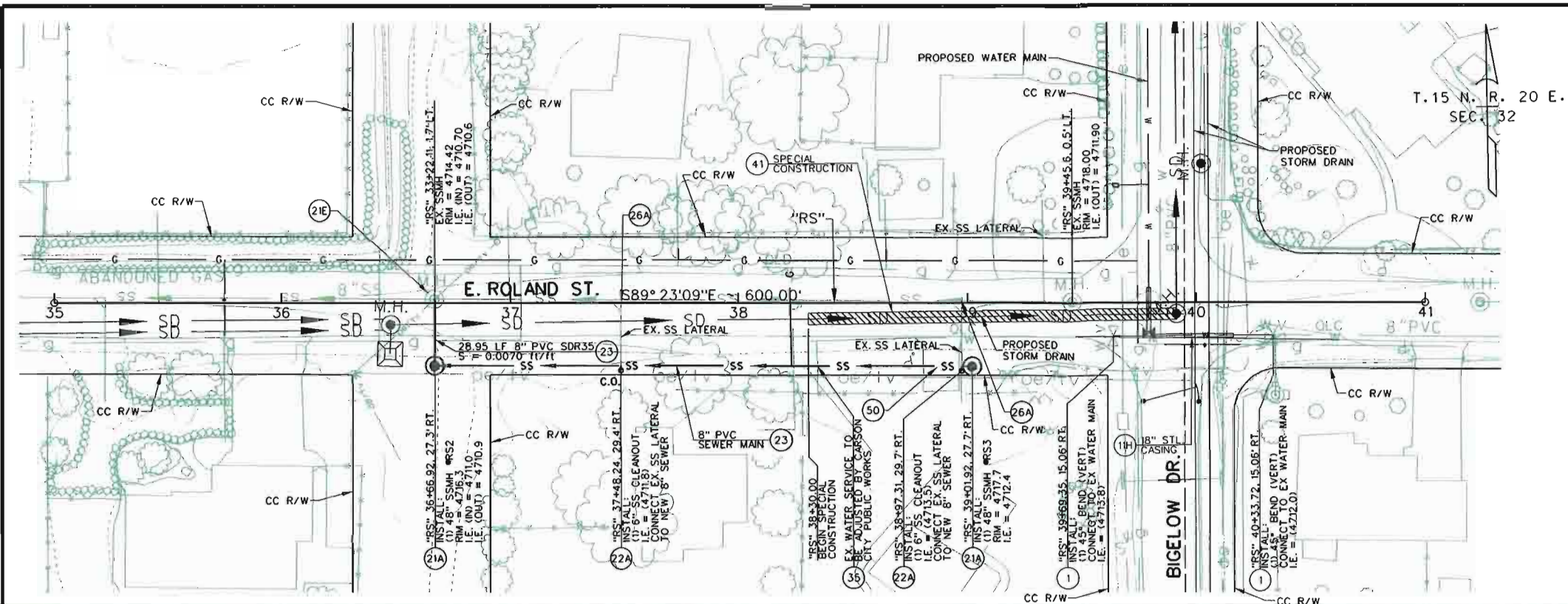


FILE NAME: X:\870-Carson Bypass\2B-2\Plans\395cc727B1\Sheets\012-L_Sheets\727B1.sht 2B-2 CCUtilityPlan01.dgn - 1/5/2012 - 9:56:34 SS&

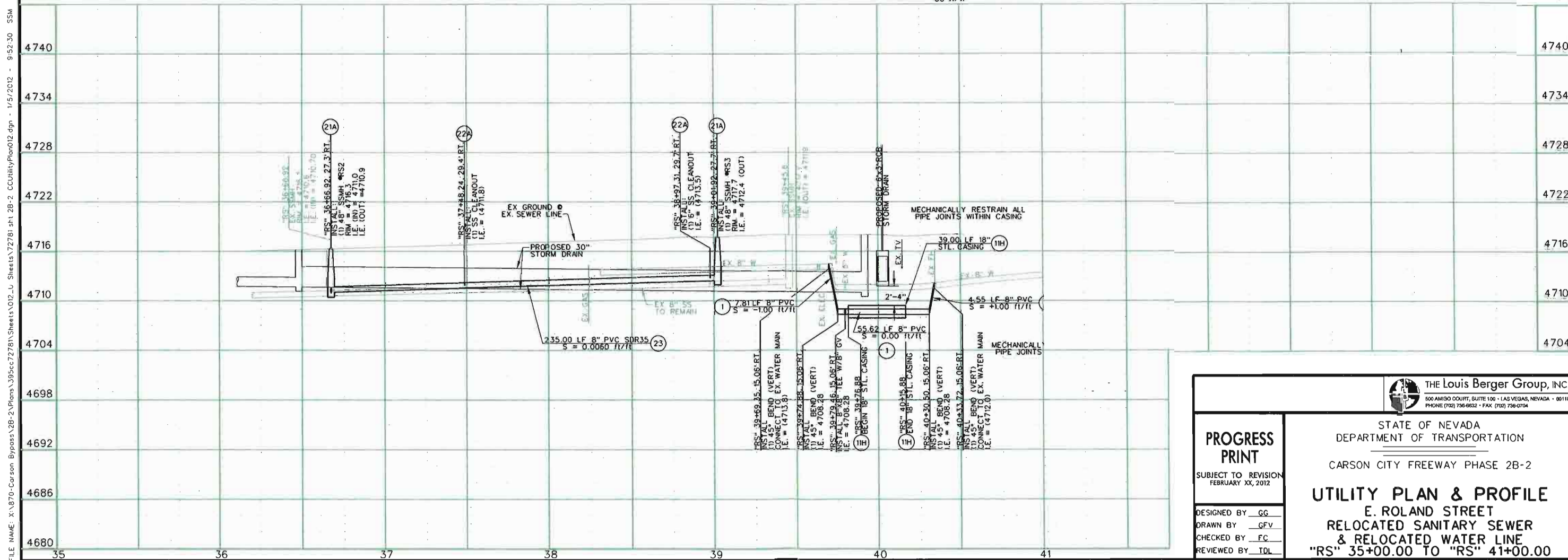


<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY: GG DRAWN BY: GFV CHECKED BY: FC REVIEWED BY: TDL</p>	<p>THE Louis Berger Group, Inc.</p> <p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE</p> <p>CENTER DRIVE RELOCATED WATER MAIN "CD" 6+00.00 TO "CD" 10+50.00</p>
	<p>500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE (702) 736-6632 • FAX (702) 736-6704</p>

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U24



- 1) INSTALL 8" PVC C900 CLASS 150 WATER MAIN PER STD. DRAWING C-1.2.1.
- 11H) INSTALL 18"-4" STEEL CASING. SEE CASING ASSEMBLY DETAIL SHEET U28.
- 21A) INSTALL 48 INCH MANHOLE TYPE 1 PER STD. DRAWING C-2.1.3
- 21E) CONNECT 8" PVC TO EXIST. SSMH. RESHAPE TO FORM SMOOTH CURVE IN MANHOLE BASE FOR NEW SEWER OUTLET OR INLET.
- 22A) INSTALL 6 INCH SEWER LINE PER STD. DRAWING C-2.2.1.
- 23) INSTALL 8" PVC SDR35 SEWER LINE PER STD. DRAWING C-1.2.1.
- 26A) ABANDON EXISTING SEWER LATERAL. CUT AND PLYC EXISTING SEWER LATERAL AT EXISTING 8" SEWER LINE. REMOVE AND DISPOSE OF ALL PORTIONS OF THE EXISTING SEWER LATERAL THAT CONFLICTS WITH NEW STORM DRAIN CONSTRUCTION.
- 35) CONTRACTOR IS TO POTHOLE INDICATED UTILITY CROSSING PRIOR TO CONSTRUCTION AND COORDINATE ADJUSTMENT WITH UTILITY COMPANY. CONTRACTOR IS TO PROVIDE SUFFICIENT TRENCHING, BACKFILL AND PAVEMENT REPLACEMENT ON EITHER SIDE OF THE SEWER TRENCH TO ACCOMPLISH UTILITY ADJUSTMENT BY UTILITY COMPANY WITH A MINIMUM OF 18-INCHES OF SEPARATION FROM SEWER LINE.
- 41) SPECIAL CONSTRUCTION - STORM DRAIN SHALL BE INSTALLED USING WATERTIGHT JOINTS.
- 50) CONTRACTOR TO REPAIR AND REPLACE IN KIND CONCRETE DRIVEWAY DAMAGED BY SEWER CONSTRUCTION.



PROGRESS PRINT

SUBJECT TO REVISION
FEBRUARY XX, 2012

DESIGNED BY GG
DRAWN BY GFV
CHECKED BY FC
REVIEWED BY IDL

THE Louis Berger Group, Inc.
800 AMISO COURT, SUITE 100 - LAS VEGAS, NEVADA • 89118
PHONE (702) 736-8532 • FAX (702) 736-0704

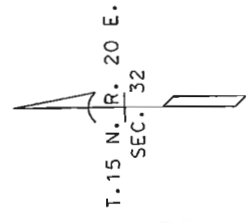
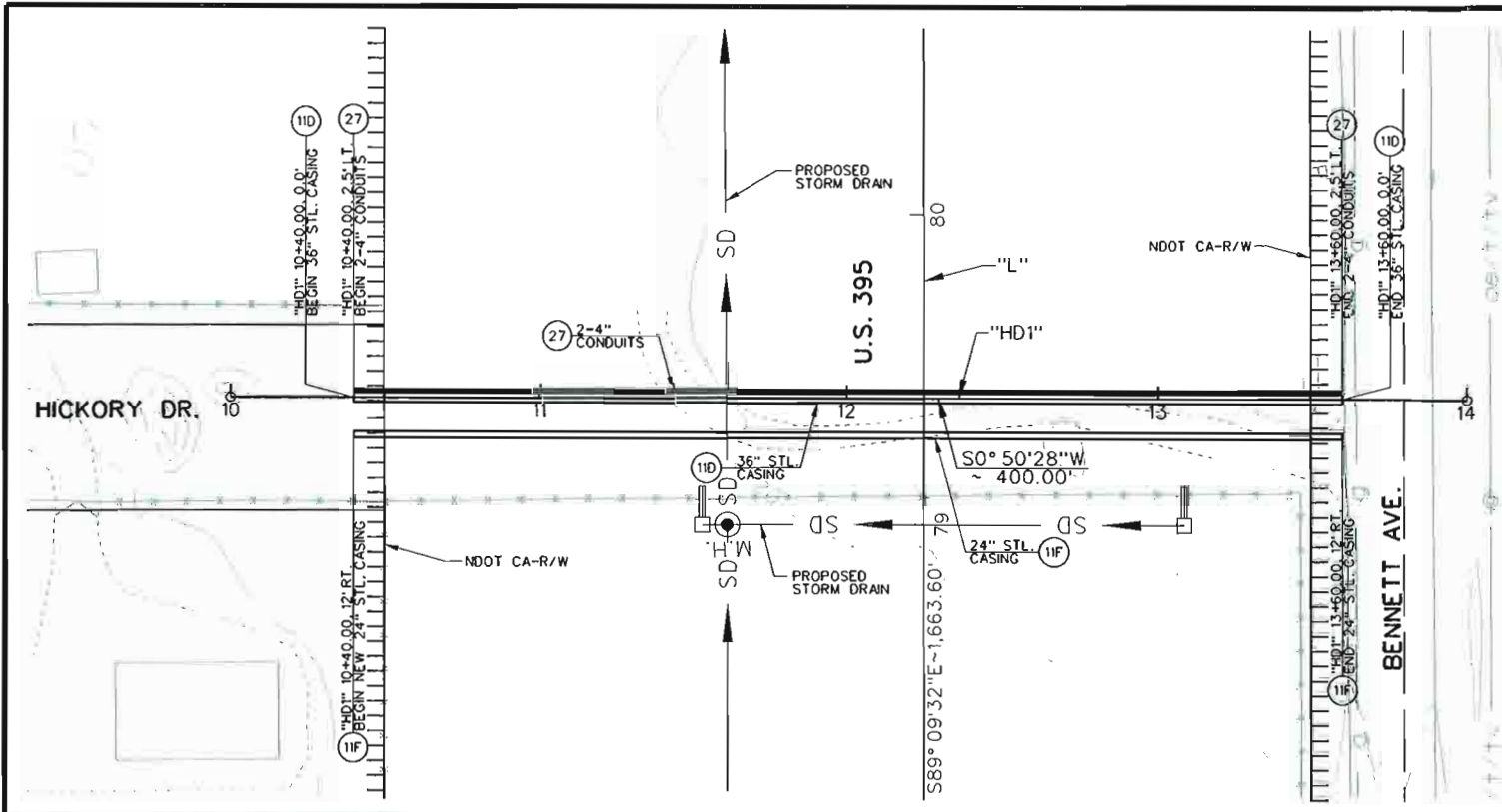
STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

CARSON CITY FREEWAY PHASE 2B-2

UTILITY PLAN & PROFILE
E. ROLAND STREET
RELOCATED SANITARY SEWER
& RELOCATED WATER LINE
"RS" 35+00.00 TO "RS" 41+00.00

FILE NAME: X:\870-Corson Bypass\2B-2\Plans\395sec72781\Sheets\012_U_Sheets\72781.sht 2B-2_CCUtilityPlan012.dgn - 1/5/2012 - 9:52:30 SSM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U25



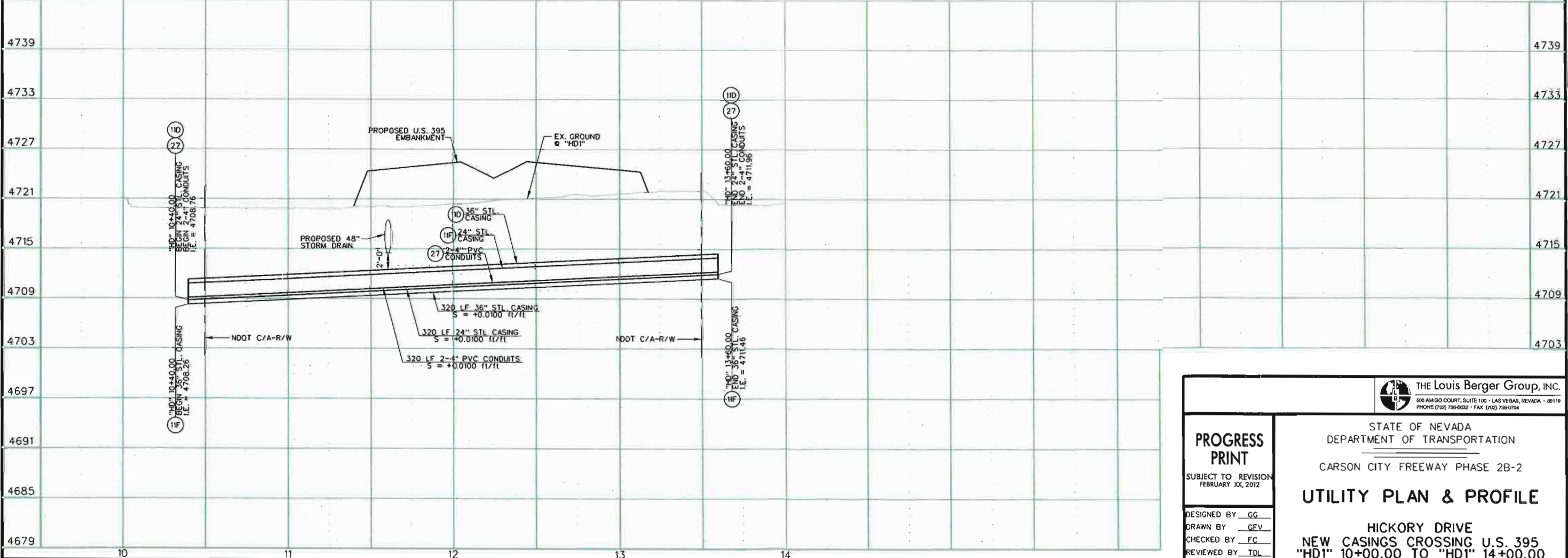
- (1D) INSTALL 36" - 1/2" STEEL CASING.
- (1F) INSTALL 24" - 3/8" STEEL CASING.
- (27) INSTALL TWO 4" PVC CONDUITS (SDR-35) FOR FUTURE USE.

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Avoid cutting underground utility lines. It's costly.

Call 811

OR
1-800-227-2600

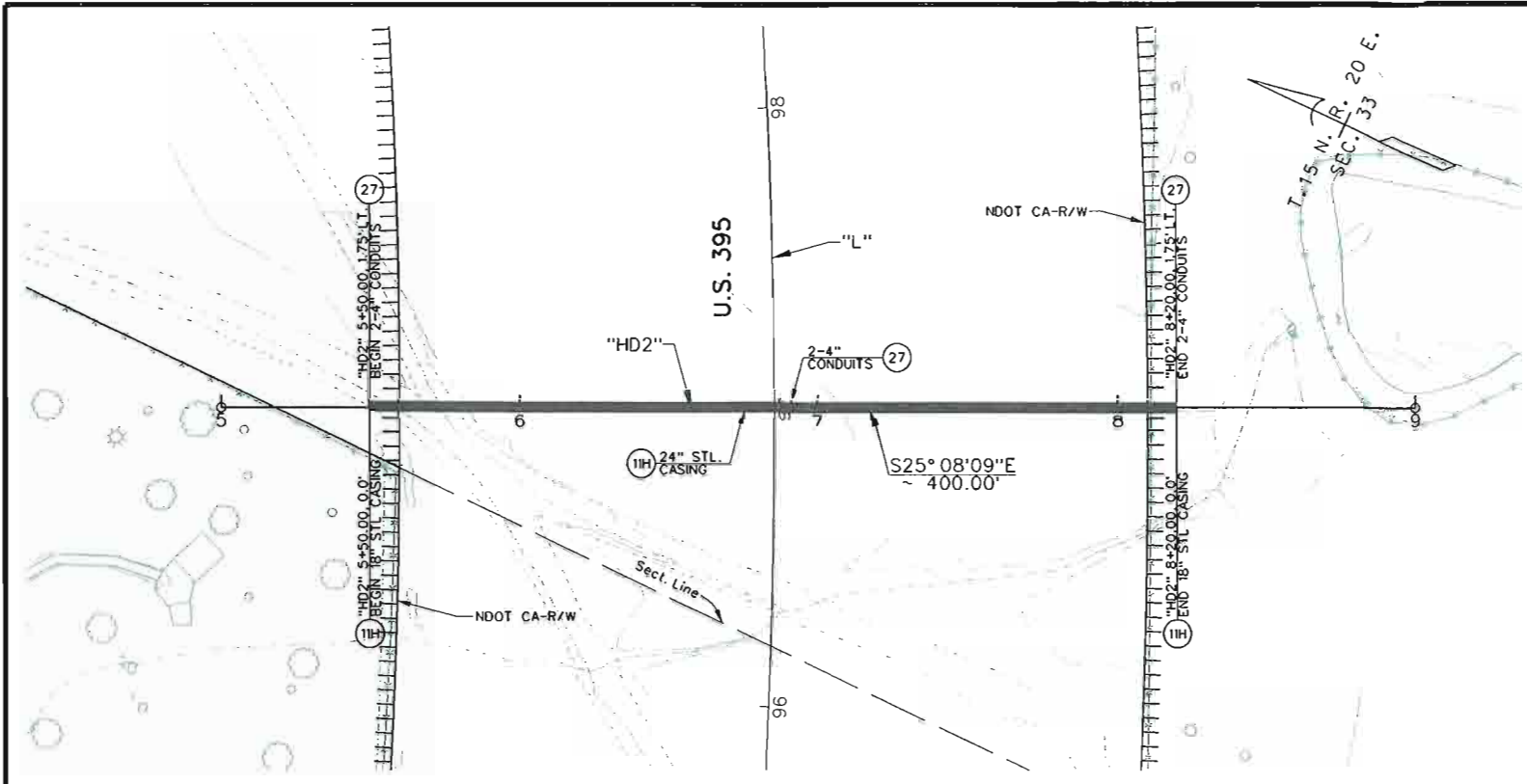
FILE NAME: X:\870-Corson Bypass\2B-2\Plans\395cc72781\Sheets\012_U_Sheets\72781.sht 2B-2 CCUtilityPlan013.dgn - 1/6/2012 - 9:38:47 SSM



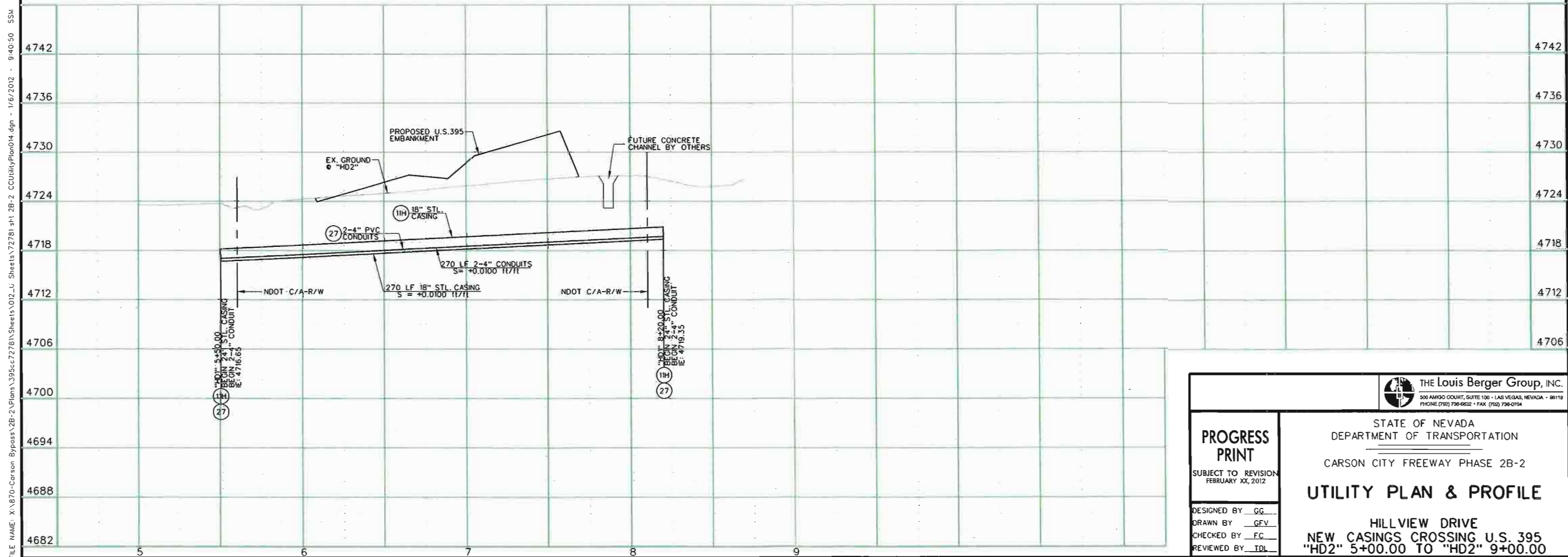
<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION</p> <p>FEBRUARY XX, 2012</p>	<p>DESIGNED BY <u>GG</u></p> <p>DRAWN BY <u>GFV</u></p> <p>CHECKED BY <u>FC</u></p> <p>REVIEWED BY <u>TDL</u></p>
	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY PLAN & PROFILE</p> <p>HICKORY DRIVE NEW CASINGS CROSSING U.S. 395 "HD1" 10+00.00 TO "HD1" 14+00.00</p>

THE Louis Berger Group, Inc.
500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119
PHONE: (702) 736-6832 - FAX: (702) 736-0704

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U26



- (1H) INSTALL 18" - 1/4" STEEL CASING.
- (27) INSTALL TWO-4" PVC CONDUITS (SDR-35) FOR FUTURE USE.



PROGRESS PRINT SUBJECT TO REVISION FEBRUARY XX, 2012 DESIGNED BY GG DRAWN BY GFV CHECKED BY FC REVIEWED BY TDL	 THE Louis Berger Group, Inc. <small>500 AMIGO COURT, SUITE 100 • LAS VEGAS, NEVADA • 89119 PHONE: (702) 736-0032 • FAX: (702) 736-0704</small>
	STATE OF NEVADA DEPARTMENT OF TRANSPORTATION CARSON CITY FREEWAY PHASE 2B-2 UTILITY PLAN & PROFILE HILLVIEW DRIVE NEW CASINGS CROSSING U.S. 395 "HD2" 5+00.00 TO "HD2" 9+00.00

FILE NAME: X:\B70-Carson Bypass\2B-2\Plans\395cc72781\Sheets\012-U_Sheets\72781.sht 2B-2_CCUtilityPlan014.dgn - 1/6/2012 - 9:40:50 SSM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U27

ALL UTILITY WORK DEPICTED ON SHEETS U13 THRU U29 INCLUSIVE, SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.

ALL WORK IN NDOT RIGHT-OF-WAY SHALL CONFORM TO THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2001 EDITION AND THE STATE OF NEVADA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION.

ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.

THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK. SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.

THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.

FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.

MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.

THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.

PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.1400)

THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).

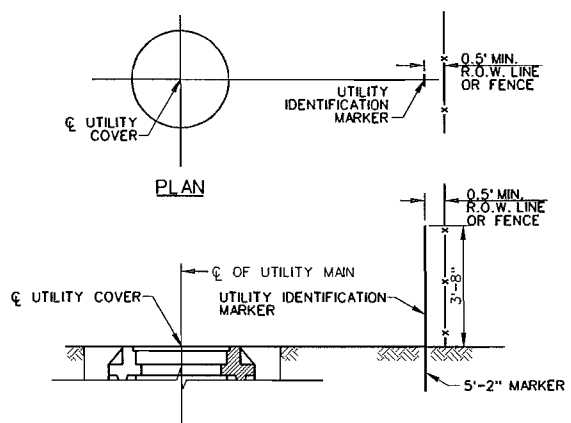
THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION. PRIOR TO BEGINNING CONSTRUCTION, POTHOLES IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTORS SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.

SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

ALL PVC WATER PIPELINES ARE TO BE DISINFECTED ACCORDING TO AWWA STANDARD C651 PER NAC 445A.67145 (6)(a) AND PRESSURE TESTED ACCORDING TO AWWA STANDARD C605 PER NAC 445A.67145 (7)(b).

GENERAL NOTES

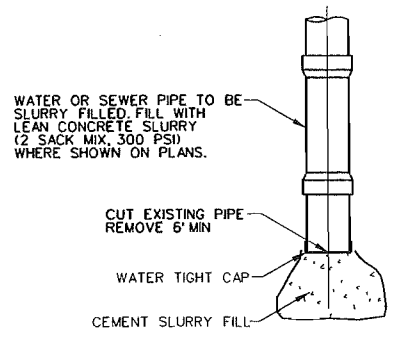


MARKINGS

UTILITY	COLOR	DECAL TEXT
WATER	BLUE	CAUTION: WATER VALVE OR CAUTION: LINE LOCATION MARKER
RECLAIMED WATER	PURPLE	CAUTION: RECLAIMED WATER VALVE
SEWER	GREEN	CAUTION: SEWER MANHOLE


NOTE:
1. SEE GENERAL WATER AND SEWER NOTES FOR MARKER INSTALLATION NOTES AND MARKER TYPE.

**UTILITY IDENTIFICATION
MARKER AND PLACEMENT**

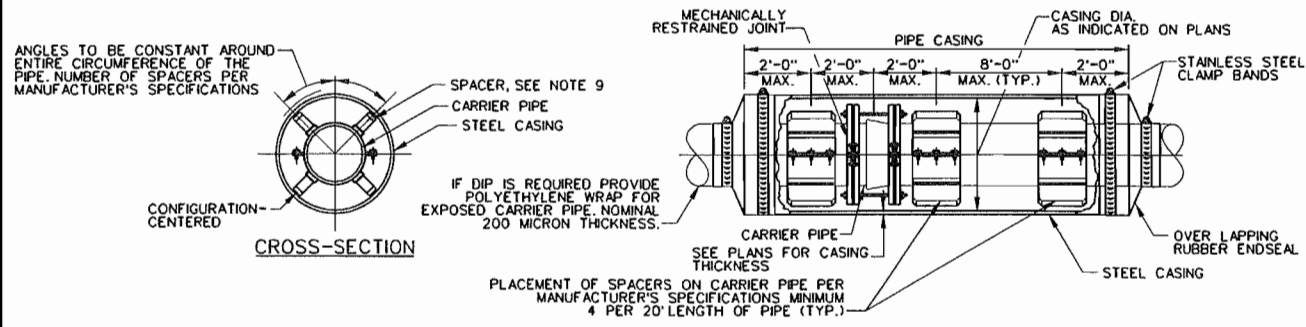


**CUT, PLUG AND SLURRY FILL
OF INACTIVE MAINS**

FILE NAME: X:\870-Carson Bypass\2B-2\Plans\395sc\72781\Sheets\012_U_Sheets\72781.sht 2B-2_CCUtilityDetail001.dgn - 1/6/2012 - 14:19:47 GFV

 THE Louis Berger Group, INC. <small>500 AMIGO COURT, SUITE 100 - LAS VEGAS, NEVADA - 89119 PHONE: (702) 736-9632 - FAX: (702) 736-0704</small>	
STATE OF NEVADA DEPARTMENT OF TRANSPORTATION CARSON CITY FREEWAY PHASE 2B-2	
<p>PROGRESS PRINT</p> <p>SUBJECT TO REVISION FEBRUARY XX, 2012</p> <p>DESIGNED BY <u>GG</u> DRAWN BY <u>GFV</u> CHECKED BY <u>FC</u> REVIEWED BY <u>TDL</u></p>	<p>UTILITY DETAILS</p>

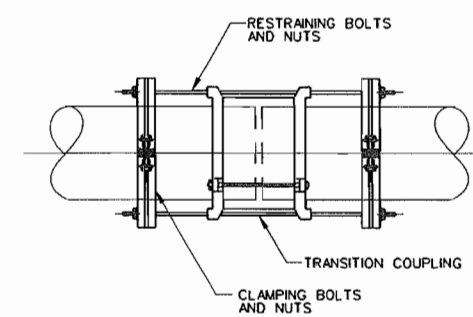
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U28



NOTES:

- CARRIER PIPE JOINTS INSIDE PIPE CASING TO BE MECHANICALLY RESTRAINED (TYP.). ALL PIPE AND FITTINGS TO BE INSTALLED WITHIN CASING IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- INTERIOR OF CASING TO BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
- ALL DESIGN IS BASED ON CASING SIZE SHOWN ON PLAN. DEVIATIONS IN CASING SIZE RECOMMENDED BY THE CONTRACTOR REQUIRES CONTRACTOR DESIGN SUBMITTAL AND APPROVAL BY CONSTRUCTION MANAGER.
- STEEL PIPE CASING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE GROUND TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE".
- STEEL PIPE CASING SHALL BE INSTALLED SYMMETRICAL ABOUT WATER MAIN CENTERLINE (TYP.). PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
- CASING SPACERS SHALL BE COMMERCIALY MANUFACTURED, INSULATING, CENTERED, AND RESTRAINED. CASING SPACERS AND END SEALS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. CASING SPACERS SHALL BE A MINIMUM OF 8 INCHES WIDE FOR CARRIER PIPES 10 INCHES AND SMALLER AND 12 INCHES WIDE FOR CARRIER PIPES GREATER THAN 12 INCHES. WOOD SKIDS ARE NOT ALLOWED.
- END SEALS SHALL BE COMMERCIALY MANUFACTURED FOR THIS PURPOSE AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- FOR SEWER MAINS, CARRIER PIPE INSIDE CASING SHALL BE PRESSURE PIPE WITH RESTRAINED JOINTS BETWEEN THE MANHOLES ON EACH SIDE OF THE CASING.

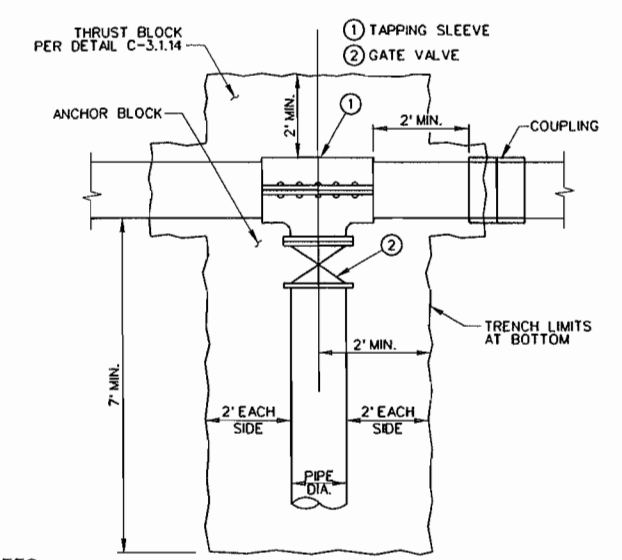
CASING ASSEMBLY DETAIL



WATER NOTES:

- CONTACT MANUFACTURER FOR SIZES NOT SHOWN.
- COUPLING MANUFACTURER: SMITH-BLAIR, ROMAC OR APPROVED EQUAL.
- RESTRAINT MANUFACTURER: EBAA IRON, ROMAC OR APPROVED EQUAL.
- EBAA MODEL NO. RS 3800 RESTRAINED SLEEVE CAN BE SUBSTITUTED FOR COUPLING AND RESTRAINT HARNESS ASSEMBLY.

RESTRAINED TRANSITION COUPLINGS FOR WATER MAIN CONNECTIONS



NOTES:

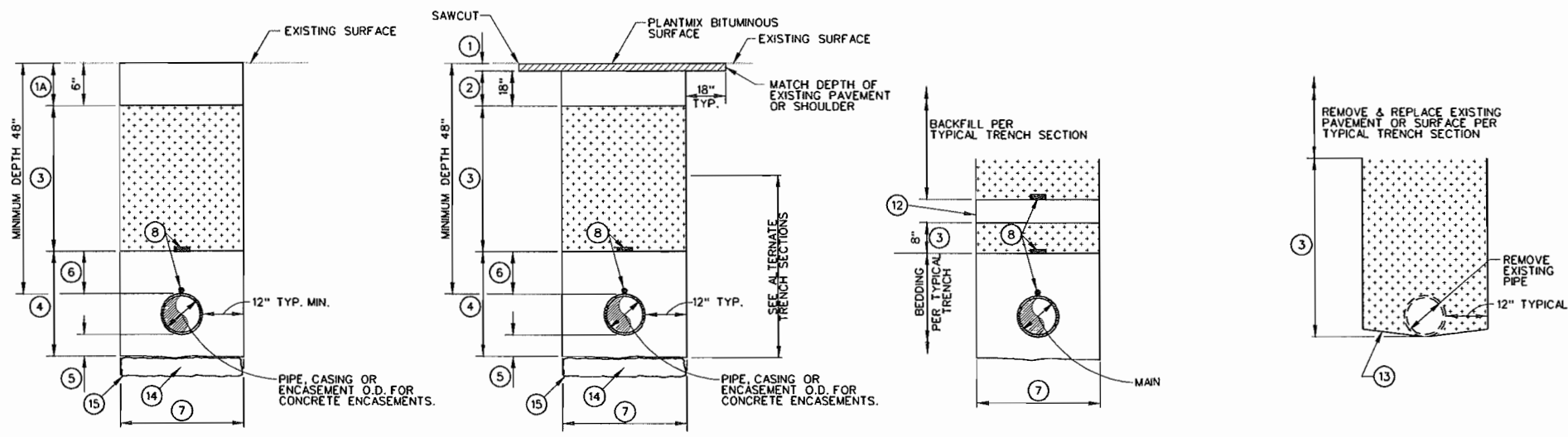
- CLEARANCE FROM A COLLAR OR PIPE JOINT SHALL BE A MINIMUM OF 18 INCHES FROM THE EDGE OF TAPPING SLEEVE TO COLLAR OR PIPE JOINT. THE EXISTING PIPE SHALL BE EXPOSED SUFFICIENTLY TO ENSURE THAT SUCH MINIMUM CLEARANCE IS PROVIDED.
- TRENCH DEPTH OF 5 FEET AND OVER MUST HAVE OSHA APPROVED SHORING AND A LADDER THAT EXTENDS A MINIMUM OF 3 FEET ABOVE THE EXISTING GROUND ELEVATION.

WATER CLEAR WORKING AREA FOR CITY WATER TAPPING OPERATIONS

FILE NAME: X:\B70-Carson Bypass\2B-2\Plans\395cc\72781\Sheets\72781.sht 2B-2 CC\UtilityDetail002.dgn - 1/10/2012 - 9:19:28 GFV

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	<p>STATE OF NEVADA DEPARTMENT OF TRANSPORTATION</p> <p>CARSON CITY FREEWAY PHASE 2B-2</p> <p>UTILITY DETAILS</p>

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	NH-395-1(017)	CARSON CITY	U29



TYPICAL TRENCH SECTION IN NON PAVED AREAS

TYPICAL TRENCH SECTION IN PAVEMENT OR SHOULDER

ALTERNATE TYPICAL TRENCH SECTION WITH SLURRY CEMENT PROTECTIVE CAP

TRENCH SECTION FOR PIPE REMOVAL

GENERAL NDOT RIGHT-OF-WAY TRENCH NOTES:

- ALL REFERENCES IN THESE NOTES REFER TO THE NEVADA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (UNLESS NOTED OTHERWISE)
- FOR PAVEMENT USE TYPE 2C, AC-20P PLANTMIX PATCH (SECTION 401) MATCH THE EXISTING SECTION UP TO 8 INCHES MAXIMUM. PATCH SHALL EXTEND 18 INCHES BEYOND EACH SIDE OF TRENCH EXCAVATION LIMIT. PLANTMIX PATCH MAY BE ELIMINATED OUTSIDE THE ROADWAY PRISM. PAVEMENT CUTS ARE TO BE STRAIGHT AND UNIFORM SAWCUTS.
 - 6" OF NATIVE MATERIAL, AND REVEGETATE PER STORM WATER POLLUTION PREVENTION PLAN AND APPLICABLE PERMITS.
 - TYPE 2 CLASS "B" AGGREGATE BASE (SECTION 302) SEE PAVEMENT PATCH DEPTH TABLE OR MATCH EXISTING SECTION, WHICH EVER IS GREATER, 95% DENSITY, PLACED IN 4 INCH LIFTS.
 - GRANULAR BACKFILL (SECTION 207), 90% DENSITY, 8 INCH LIFTS. IF TRENCH IS LOCATED OUTSIDE THE ROADWAY PRISM AND ANY PROPOSED ROADWAY WIDENING, BACKFILL (SECTION 207) MAY BE USED IN LIEU OF GRANULAR BACKFILL. DRAIN ROCK IS NOT ACCEPTABLE.
 - PIPE BEDDING MATERIAL, GRANULAR BACKFILL, 90% DENSITY, 8 INCH LIFTS.
GRANULAR BACKFILL IN THE PIPE ZONE SHALL BE SANDY MATERIAL AND CONFORM TO THE FOLLOWING SIEVE SIZES:
SIEVE SIZE: PERCENT PASSING BY MASS:
3/8 INCH: 100
No. 4: 90-100
No. 50: 10-40
No. 100: 3-20
No. 200: 0-15
 - FOUNDATION FILL (SECTION 208). THE FILL MATERIAL SHALL BE THE SAME AS THE PIPE BEDDING MATERIAL BEING PLACED AROUND THE PIPE. A MINIMUM OF 6 INCHES OF FOUNDATION FILL IS REQUIRED.
 - 12 INCHES OF GRANULAR BACKFILL. THE BACKFILL SHALL BE THE SAME AS THE PIPE BEDDING MATERIAL BEING PLACED AROUND THE PIPE.
 - MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 3 FEET FOR PIPES GREATER THAN 12 INCHES. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 2 FEET FOR PIPE DIAMETERS 12 INCHES OR LESS. PIPE SHALL BE CENTERED IN THE TRENCH. TRENCH WIDTHS SHALL ALLOW PLACEMENT AND COMPACTION OF BACKFILL MATERIAL.
 - WARNING TAPE AND 12 GAUGE COATED SOLID COPPER LOCATOR WIRE SHALL BE PLACED AND INSTALLED AS PER DWG NO. C-9.0 OF THE SDPWC AND THE SSPWC. PLACE WARNING TAPE 1 FOOT ABOVE WATER AND SEWER LINES, CASINGS AND ENCASEMENTS.
 - ALL EXCAVATIONS MUST CONFORM TO THE LATEST O.S.H.A. AND NDOT REQUIREMENTS.
 - ALL EXCESS EXCAVATED MATERIAL TO BE HAULED AWAY AND DISPOSED OFF THE NDOT RIGHT-OF-WAY UNLESS OTHERWISE PERMITTED BY THE CONSTRUCTION MANAGER.
 - FOR THE PURPOSES OF PAYMENT: EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE DETAILS.
 - NDOT SLURRY CEMENT CAP 6 INCHES OF CLASS "A" EXCAVATABLE SLURRY CEMENT BACKFILL (SECTION 207). END SLURRY CEMENT CAP 2' FROM WATER VALVES.
 - COMPACT EXISTING MATERIAL ONCE PIPE IS REMOVED.
 - SUBGRADE STABILIZATION CONSISTING OF 1 FOOT OF OVEREXCAVATION AND 1 FOOT OF NDOT TYPE 2 DRAIN BACKFILL CONFORMING TO NDOT STANDARD SPECIFICATIONS SECTION 704.03.01 WRAPPED IN NON-WOVEN GEOTEXTILE FABRIC INDICATED IN NOTE 15.
 - NON-WOVEN GEOTEXTILE FABRIC CONSISTING OF ONLY LONG CHAIN POLYMERIC FILAMENTS AND SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS, RESISTANT TO ROT AND MILDEW. THE FABRIC SHALL HAVE NO TEARS OR DEFECTS WHICH WILL ADVERSLEY AFFECT OR ALTER ITS PHYSICAL PROPERTIES. PHYSICAL PROPERTIES FOR THE FABRIC ARE LISTED BELOW:
PROPERTY REQUIREMENT TEST METHOD
GRAB TENSILE STRENGTH, LBS. GREATER THAN 155 ASTM D 4632
GRAB ELONGATION BREAK, % 45 MIN, 115 MAX. ASTM D 4632
CBR PUNCTURE STRENGTH, LBS. GREATER THAN 395 ASTM D 6241
MULLEN BURST STRENGTH, P.S.I. GREATER THAN 280 ASTM D 3786
TRAPEZOIDAL TEAR, LBS. GREATER THAN 55 ASTM D 4533
APPARENT OPENING SIZE, SIEVE SIZE #120 TO #40 ASTM D 4751
ULTRAVIOLET STABILITY AFTER 500 HOURS, % GREATER THAN 50 ASTM D 4355
PRODUCTS MEETING THESE REQUIREMENTS ARE: PROPEX-GEOTEX 601, OR TENECATE-MIRAF160N, OR EQUIVALENT MAY BE USED.

NDOT RIGHT-OF-WAY TRENCH DETAILS

FILE NAME: X:\870-Carson By-pass\2B-2\Plans\395cc\72781\Sheets\012_U Sheets\72781.sht 2B-2 CC\UtilityDetail\003.dgn - 1/10/2012 - 9:18:33 GFV

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