

**ADDENDUM NUMBER 2:  
TOWN OF EXETER, NH  
COURT STREET over LITTLE RIVER  
BRIDGE REPLACEMENT  
CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS**

**Issued: May 15, 2017  
For Bids Due: May 22, 2017**

This addendum modifies, amends, and supplements parts of the Project Specifications, Contract Documents, and Drawings for the Town of Exeter, **Court Street Little River Bridge Replacement Project**, and is hereby made an integral part thereof by reference and shall be as binding as though inserted in its entirety in the locations specified herein. The Contractor shall notify their subcontractors and suppliers of any changes or modifications contained in this addendum. The Contractor shall acknowledge receipt of this addendum on the Bid Form.

The Plans, Technical Specifications and Contract Documents for the subject project shall be supplemented and/or amended as follows:

**A. CONTRACT DOCUMENTS**

**1. Bid Proposal**

The quantity for items 604.124 – Catch Basins Type B, 4-Foot Diameter and 603.00212 – 12” R.C. Pipe, 2000D have been updated. Item 604.242 – Drop Inlets Type D-B has been added.

**2. Bid Plans – Sheets R-1 to R-3, and R-6**

The sheets listed above have been modified to reflect changes to the drainage structures and drainage layout for the project. A note has been added to sheet R-1 to provide clarification regarding the removal of the dry hydrant near the northwest corner of the bridge.

**END OF ADDENDUM NO. 2**

**Attachments:**

- Revised Bid Proposal
- May 12, 2017 Pre-bid Conference Meeting Minutes
- Revised Plan Sheets
- Existing Sewer Force Main Plans

**BID PROPOSAL**

**EXHIBIT A**

BIDDER: \_\_\_\_\_

PROJECT: Court Street Little River Bridge Replacement

OWNER: Town of Exeter, New Hampshire

The undersigned, hereafter referred to as the BIDDER has examined the Contract Documents prepared in connection herewith by CMA Engineers, Inc., the ENGINEER. In addition, he has examined the site and is familiar with all the conditions surrounding the Work contemplated. He hereby submits the following:

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sums:

**BID PROPOSAL**

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
201.1	1	LS	Clearing & Grubbing (F) _____dollars and _____cents	\$	\$
202.43	110	LF	Removal of Exist. Asbest. Cement Pipe, 0-24" Diam. _____dollars and _____cents	\$	\$
202.5	4	EA	Removal of Catch Basins, Drop Inlets, and Manholes _____dollars and _____cents	\$	\$
202.7	360	LF	Removal of Guardrail _____dollars and _____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
203.1	1300	CY	Common Excavation _____dollars and_____cents	\$	\$
203.2	15	CY	Rock Excavation _____dollars and_____cents	\$	\$
203.6	150	CY	Embankment-in-Place (F) _____dollars and_____cents	\$	\$
206.19	93	CY	Common Structure Excavation Exploratory _____dollars and_____cents	\$	\$
207.1	1250	CY	Common Channel Excavation _____dollars and_____cents	\$	\$
209.201	130	CY	Granular Backfill Bridge (F) _____dollars and_____cents	\$	\$
214	1	U	Fine Grading _____dollars and_____cents	\$	\$
304.2	980	CY	Gravel (F) _____dollars and_____cents	\$	\$
304.3	500	CY	Crushed Gravel (F) _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
403.11	500	TON	Hot Bituminous Pavement, Machine Method _____dollars and_____cents	\$	\$
403.12	6	TON	Hot Bituminous Pavement, Hand Method _____dollars and_____cents	\$	\$
403.6	4100	LF	Pavement Joint Adhesive _____dollars and_____cents	\$	\$
403.911	20	TON	Hot Bituminous Bridge Pavement, 1 1/2" Base Course (F) _____dollars and_____cents	\$	\$
417	81	SY	Cold Planning Bituminous Surfaces _____dollars and_____cents	\$	\$
502	1	U	Removal of Existing Bridge Structure _____dollars and_____cents	\$	\$
503.101	1	U	Water Diversion Structure _____dollars and_____cents	\$	\$
504.1	340	CY	Common Bridge Excavation (F) _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
504.2	5	CY	Rock Bridge Excavation _____dollars and_____cents	\$	\$
508	28	CY	Structural Fill _____dollars and_____cents	\$	\$
510.1	1	U	Pile Driving Equipment _____dollars and_____cents	\$	\$
510.61	28200	LB	Furnishing and Driving Steel Bearing Piles _____dollars and_____cents	\$	\$
510.65	14	EA	Driving-Points for Steel Bearing Piles _____dollars and_____cents	\$	\$
520.01	140	CY	Concrete Class AA _____dollars and_____cents	\$	\$
520.0302	71	CY	Concrete Class AA Approach Slabs _____dollars and_____cents	\$	\$
520.21	7	CY	Concrete Class B, Footings (F) _____dollars and_____cents	\$	\$
528.3224	2300	SF	Prestressed Concrete Bridge Deck, 24” Butted Box Beams (F) _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
534.3	15	GAL	Water Repellent (Silane-Siloxane) _____dollars and_____cents	\$	\$
538.2	9	SY	Barrier Membrane, Peel and Stick – Vertical Surfaces (F) _____dollars and_____cents	\$	\$
538.5	250	SY	Barrier Membrane, Heat Welded (F) _____dollars and_____cents	\$	\$
544.3	7100	LB	Reinforcing Steel, (Contractor Detailed) _____dollars and_____cents	\$	\$
544.31	16700	LB	Reinforcing Steel, Epoxy Coated (Contractor Detailed) _____dollars and_____cents	\$	\$
544.7	500	LB	Synthetic Fiber Reinforcement (F) _____dollars and_____cents	\$	\$
548.11	44	EA	Elastomeric Bearing Pads (F) _____dollars and_____cents	\$	\$
559.4	34	LF	Asphaltic Plug Expansion Joint (F) _____dollars and_____cents	\$	\$
559.41	34	LF	Asphaltic Plug for Crack Control (F) _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
562.1	23	LF	Silicone Joint Sealant (F) _____dollars and_____cents	\$	\$
563.3	60	LF	Bridge Rail T101 _____dollars and_____cents	\$	\$
563.353	60	LF	Bridge Rail T101 with Snow Screening _____dollars and_____cents	\$	\$
570.4	19	CY	Mortar Rubble Masonry (F) _____dollars and_____cents	\$	\$
583.3	280	CY	Riprap Class III _____dollars and_____cents	\$	\$
593.411	650	SY	Geotextile, Permanent Control, Class 1, Non-Woven _____dollars and_____cents	\$	\$
603.00212	250	LF	12" R.C. Pipe, 2000D _____dollars and_____cents	\$	\$
604.0007	3	EA	Polyethylene Liner _____dollars and_____cents	\$	\$
604.124	4	U	Catch Basins Type B, 4-Foot Diameter _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
604.242	1	U	Drop Inlets Type D-B _____dollars and_____cents	\$	\$
604.324	1	U	Drainage Manholes, 4-Foot Diameter _____dollars and_____cents	\$	\$
604.325	1	U	Drainage Manholes, 5-Foot Diameter _____dollars and_____cents	\$	\$
604.51	3	LF	Reconstructing/Adjusting Sewer Manholes _____dollars and_____cents	\$	\$
604.52	7	LF	Reconstructing/Adjusting Drainage Manholes _____dollars and_____cents	\$	\$
604.54	1	LF	Reconstructing/Adjusting Telephone Manholes _____dollars and_____cents	\$	\$
606.1255	3	U	Beam Guardrail (Terminal Unit Type EAGRT 25 ft.) (Steel Post) _____dollars and_____cents	\$	\$
606.1285	4	U	Beam Guardrail (Bridge Approach Unit) _____dollars and_____cents	\$	\$
606.147	1	U	Beam Guardrail (Terminal Unit Type G-2) _____dollars and_____cents	\$	\$



ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
606.18001	63	LF	Beam Guardrail (Standard Section) (Steel Post)  _____dollars and_____cents	\$	\$
608.125	130	SY	2.5" Bituminous Sidewalk (F)  _____dollars and_____cents	\$	\$
608.36	8	SY	6" Reinforced Concrete Sidewalk (F)  _____dollars and_____cents	\$	\$
608.54	3	SY	Detectable Warning Devices, Cast Iron  _____dollars and_____cents	\$	\$
609.01	250	LF	Straight Granite Curb  _____dollars and_____cents	\$	\$
611.05212	40	LF	12" Cement Lined Ductile Iron Water Pipe, CL 52  _____dollars and_____cents	\$	\$
611.052121	120	LF	12" Insulated Cement Lined Ductile Iron Water Pipe, CL 52  _____dollars and_____cents	\$	\$
611.700121	2	EA	12" Fitting (Hymax Transition Coupling)  _____dollars and_____cents	\$	\$
611.700122	4	EA	12" Insulated Fitting  _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
611.71012	2	EA	12" Gate Valve with Box _____dollars and_____cents	\$	\$
618.61	2500	\$	Uniformed Officers with Vehicle _____dollars and_____cents	\$2,500	\$2,500
619.1	1	U	Maintenance of Traffic _____dollars and_____cents	\$	\$
619.25	2	U	Portable Changeable Message Sign _____dollars and_____cents	\$	\$
628.2	330	LF	Sawed Bituminous Pavement _____dollars and_____cents	\$	\$
632.0104	2700	LF	Retroreflective Paint Pave. Marking, 4" Line _____dollars and_____cents	\$	\$
645.531	990	LF	Silt Fence _____dollars and_____cents	\$	\$
645.7	1	U	Storm Water Pollution Prevention Plan _____dollars and_____cents	\$	\$
645.71	50	HR	Monitoring SWPPP and Erosion and Sediment Controls _____dollars and_____cents	\$	\$

ITEM NO.	EST QTY	UNIT	ITEM DESCRIPTION WITH UNIT PRICE WRITTEN IN WORDS	UNIT PRICE (FIGURES)	EXTENDED TOTAL (FIGURES)
646.51	560	SY	Turf Establishment with Mulch, Tackifiers, and Loam _____dollars and_____cents	\$	\$
692	1	U	Mobilization _____dollars and_____cents	\$	\$
1008.11	15000	\$	Alterations and Additions as Needed – Unanticipated Work _____dollars and_____cents	\$15,000	\$15,000
1008.9	6000	\$	Alterations and Additions as Needed – Testing of Material _____dollars and_____cents	\$6,000	\$6,000

**Total Bid Price**

(Figures) \_\_\_\_\_

(Written) \_\_\_\_\_

dollars and \_\_\_\_\_ cents

The Bidder agrees to **add or deduct** work required by the Owner or Engineer for the above mentioned Lump Sum prices (as applicable).

The undersigned, as Contractor herein referred to as singular and masculine declares as follows:

- (1) The only parties interested in the BID as Principals are named herein;
- (2) This BID is made without collusion with any other person, firm, or corporation;

- (3) The Bidder has carefully examined the site of the proposed work and is fully informed and is satisfied as to the conditions there existing, the character and requirements of the proposed Work, and the difficulties attendant upon its execution. The Bidder has carefully read and examined the Drawings, the proposed AGREEMENT and the Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (4) The Bidder understands the information relative to subsurface and other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface or subsurface) actually encountered will be the same as those shown on the Drawings or in any other Contract Documents and he agrees that he shall not use or be entitled to use such information made available to him through the Contract Documents or otherwise obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or Engineer arising from or by reasons of any variance which may exist between the aforesaid information made available to, or otherwise obtained by, him and the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) actually encountered during the construction work, and he has made due allowance therefore in the BID;
- (5) He understands that all reports of investigations and tests of subsurface physical conditions at the site and other information affecting the performance of the Work which have been relied upon by the Engineer in preparation of the Drawings and Specifications are not guaranteed as to accuracy or completeness and are not part of the Contract Documents.
- (6) And he understands that the quantities of work tabulated in this Proposal and indicated on the Drawings and in the Specifications and other Contract Documents are approximate and are subject to increase or decrease as deemed necessary by the Engineer, and as allowed for under the Contract Documents.

The undersigned agrees that for extra work, if any, authorized in writing by the Engineer to be performed by him in accordance with the terms and provisions of the Agreement, he will accept compensation as stipulated in the Contract Documents in full payment for such extra work, and agrees that for reductions in work as directed by the Engineer, he will accept reduced compensation as stipulated in the Contract Documents.

If this Bid Proposal is accepted by the Owner, the undersigned agrees to substantially complete the work in accordance with the schedule for substantial completion of

work per the Special Conditions, provided to be done under the Contract, and accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete any element of the work on time, except as otherwise expressly provided in the AGREEMENT.

The Bidder hereby agrees that, once opened, he will not withdraw this Bid within 90 days of Bid opening, and that if the Owner shall accept this Bid, the Bidder will duly execute the Contract and provide BONDS as provided in paragraph 14 of Instructions to Bidders.

Respectfully Submitted:

\_\_\_\_\_ Company Name

By: \_\_\_\_\_  
Name (Printed) Address

\_\_\_\_\_  
Title Address

\_\_\_\_\_  
Signature Date

(SEAL if Proposal is by a Corporation)

\_\_\_\_\_  
Attest

ADDENDA

The BIDDER acknowledges receipt of the following Addenda\*

No. \_\_\_\_\_ Dated

No. \_\_\_\_\_ Dated

No. \_\_\_\_\_ Dated

No. \_\_\_\_\_ Dated

No. \_\_\_\_\_ Dated

No. \_\_\_\_\_ Dated

*\* to be filled in as appropriate*

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# MEETING MINUTES

**PROJECT:** Court Street Little River Bridge Replacement  
Exeter, NH  
CMA Engineers Project No. 923

**MEETING DATE:** May 12, 2017, 10:00 am

**MINUTES ISSUE DATE:** May 15, 2017

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**Overview:**

The supplemental Pre-Bid meeting was held at the project site to review the project parameters.

**Attendees:**

Jim DeWever, Cairns  
Jason Gallant, CMA Engineers

**Meeting Notes/Summary:**

**FairPoint**

- Same as 5/2 meeting, no lines have been relocated.

**Unitil – Electric**

- A permanent new pole has been set immediately adjacent to the existing pole at the southwest corner of the bridge.
- No lines have been relocated to date.

**Unitil – Gas**

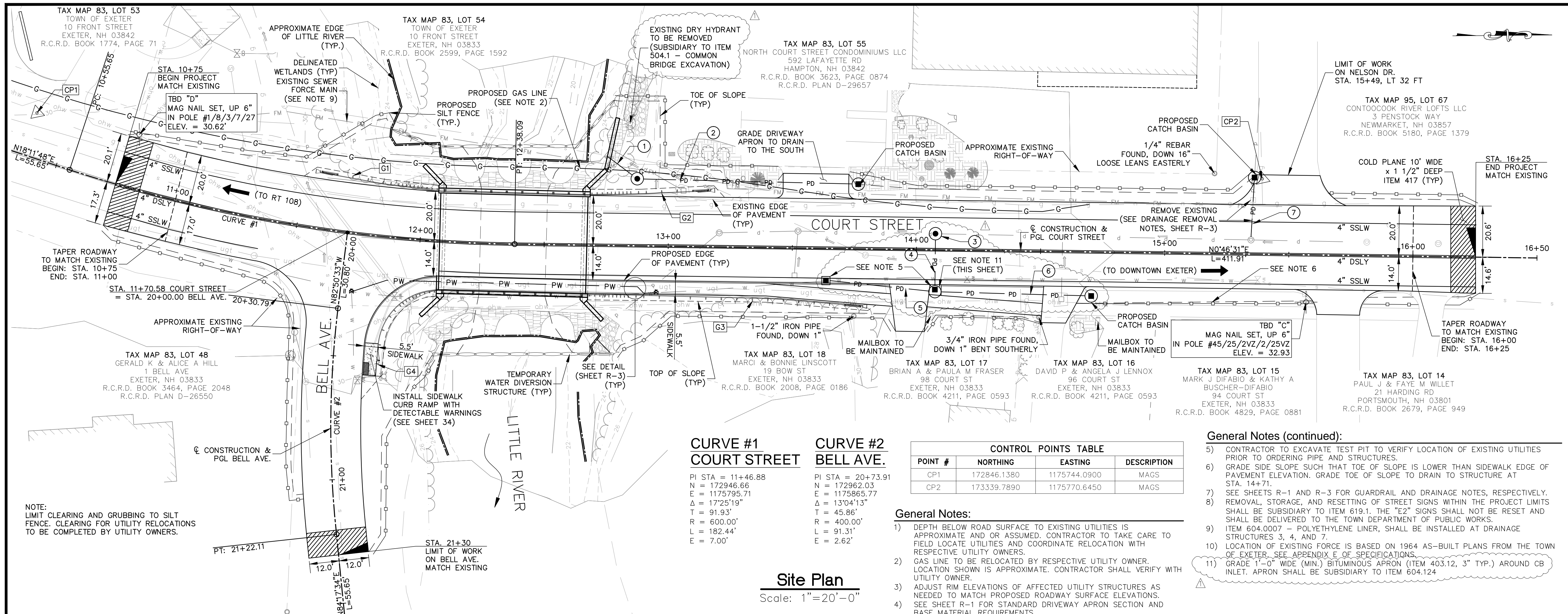
- Town coordination with Unitil is ongoing to relocate the gas main west of the existing / proposed bridge.

**Contractor Questions**

- o None







**CURVE #1  
COURT STREET**

PI STA = 11+46.88  
N = 172946.66  
E = 1175795.71  
Δ = 17'25"19"  
T = 91.93'  
R = 600.00'  
L = 182.44'  
E = 7.00'

**CURVE #2  
BELL AVE.**

PI STA = 20+73.91  
N = 172962.03  
E = 1175865.77  
Δ = 13'04"13"  
T = 45.86'  
R = 400.00'  
L = 91.31'  
E = 2.62'

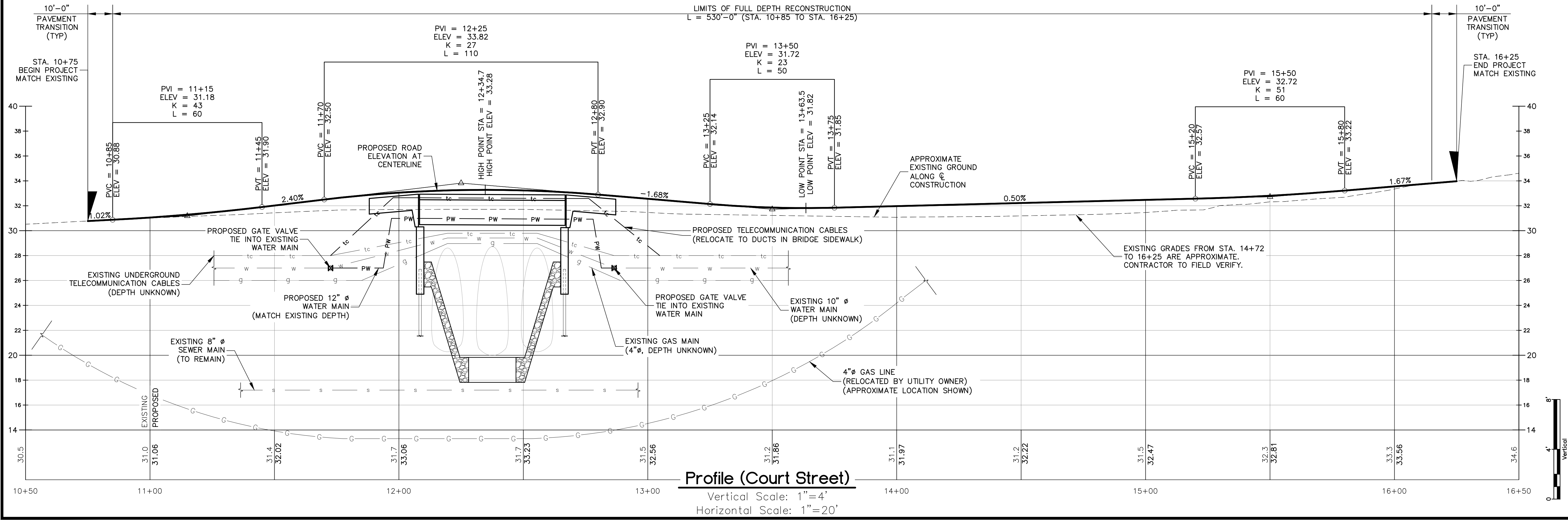
**CONTROL POINTS TABLE**

POINT #	NORTHING	EASTING	DESCRIPTION
CP1	172846.1380	1175744.0900	MAGS
CP2	173339.7890	1175770.6450	MAGS

- General Notes (continued):**
- CONTRACTOR TO EXCAVATE TEST PIT TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO ORDERING PIPE AND STRUCTURES.
  - GRADE SIDE SLOPE SUCH THAT TOE OF SLOPE IS LOWER THAN SIDEWALK EDGE OF PAVEMENT ELEVATION. GRADE TOE OF SLOPE TO DRAIN TO STRUCTURE AT STA. 14+71.
  - SEE SHEETS R-1 AND R-3 FOR GUARDRAIL AND DRAINAGE NOTES, RESPECTIVELY.
  - REMOVAL, STORAGE, AND RESETTING OF STREET SIGNS WITHIN THE PROJECT LIMITS SHALL BE SUBSIDIARY TO ITEM 619.1. THE "E2" SIGNS SHALL NOT BE RESET AND SHALL BE DELIVERED TO THE TOWN DEPARTMENT OF PUBLIC WORKS.
  - ITEM 604.0007 - POLYETHYLENE LINER, SHALL BE INSTALLED AT DRAINAGE STRUCTURES 3, 4, AND 7.
  - LOCATION OF EXISTING FORCE IS BASED ON 1964 AS-BUILT PLANS FROM THE TOWN OF EXETER. SEE APPENDIX E OF SPECIFICATIONS.
  - GRADE 1'-0" WIDE (MIN.) BITUMINOUS APRON (ITEM 403.12, 3" TYP.) AROUND CB INLET. APRON SHALL BE SUBSIDIARY TO ITEM 604.124

- General Notes:**
- DEPTH BELOW ROAD SURFACE TO EXISTING UTILITIES IS APPROXIMATE AND OR ASSUMED. CONTRACTOR TO TAKE CARE TO FIELD LOCATE UTILITIES AND COORDINATE RELOCATION WITH RESPECTIVE UTILITY OWNERS.
  - GAS LINE TO BE RELOCATED BY RESPECTIVE UTILITY OWNER. LOCATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL VERIFY WITH UTILITY OWNER.
  - ADJUST RIM ELEVATIONS OF AFFECTED UTILITY STRUCTURES AS NEEDED TO MATCH PROPOSED ROADWAY SURFACE ELEVATIONS. SEE SHEET R-1 FOR STANDARD DRIVEWAY APRON SECTION AND BASE MATERIAL REQUIREMENTS.

**Site Plan**  
Scale: 1"=20'-0"



**Profile (Court Street)**  
Vertical Scale: 1"=4'  
Horizontal Scale: 1"=20'

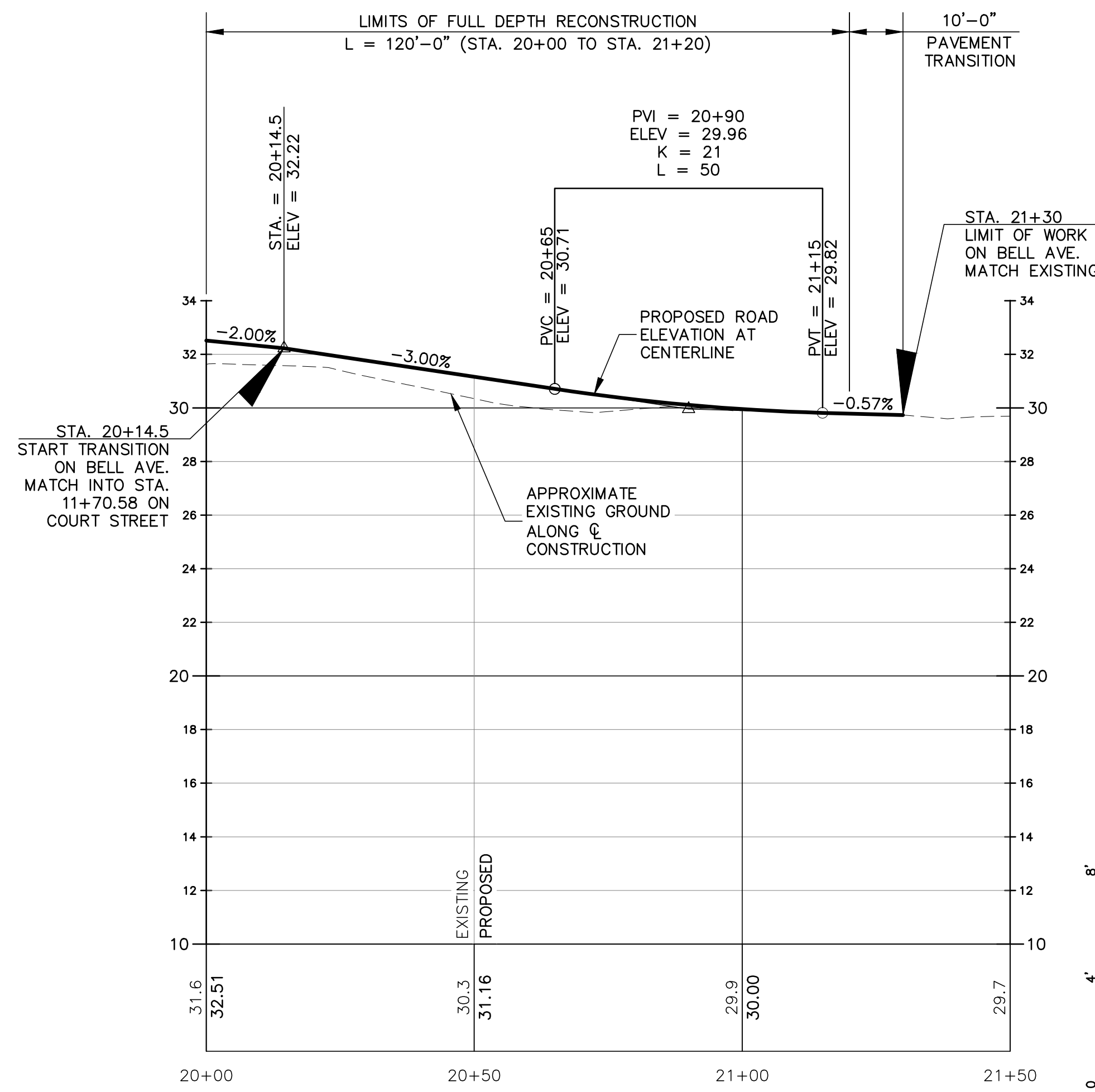
designed by: LBK/OGK	drawn by: LBK/BGP	approved by: JLG
date: April 2017	project no: -----	file name: R-2.dwg
<p>Town of Exeter Department of Public Works Little River Bridge Replacement Roadway Plan and Profile (Sheet 1 of 2)</p>		
<p>drawing no. <b>R-2</b></p>		
<p>sheet: 24 of 34</p>		

CMA ENGINEERS  
 CIVIL/ENVIRONMENTAL/STRUCTURAL  
 Portsmouth, NH • Manchester, NH • Portland, ME  
 603/431-6196 • 603/627-0708 • 207/541-4223  
 c m a e n g i n e e r s . c o m

5/15/17  
 JLG  
 5/15/17  
 JLG  
 4/24/17  
 JLG

ALTERATIONS TO DRAINAGE LAYOUT  
 1  
 ISSUED FOR BID  
 0  
 no. revision

F:\CAD\PROJECTS\23-Exeter Bridges\Production\Court St\Final Design\R-3.dwg Date Plotted: May 15, 2017 - 8:11am Plotted by: DLALLOCH



**Profile (Bell Ave.)**  
 Vertical Scale: 1"=4'  
 Horizontal Scale: 1"=20'

**Drainage Notes:**

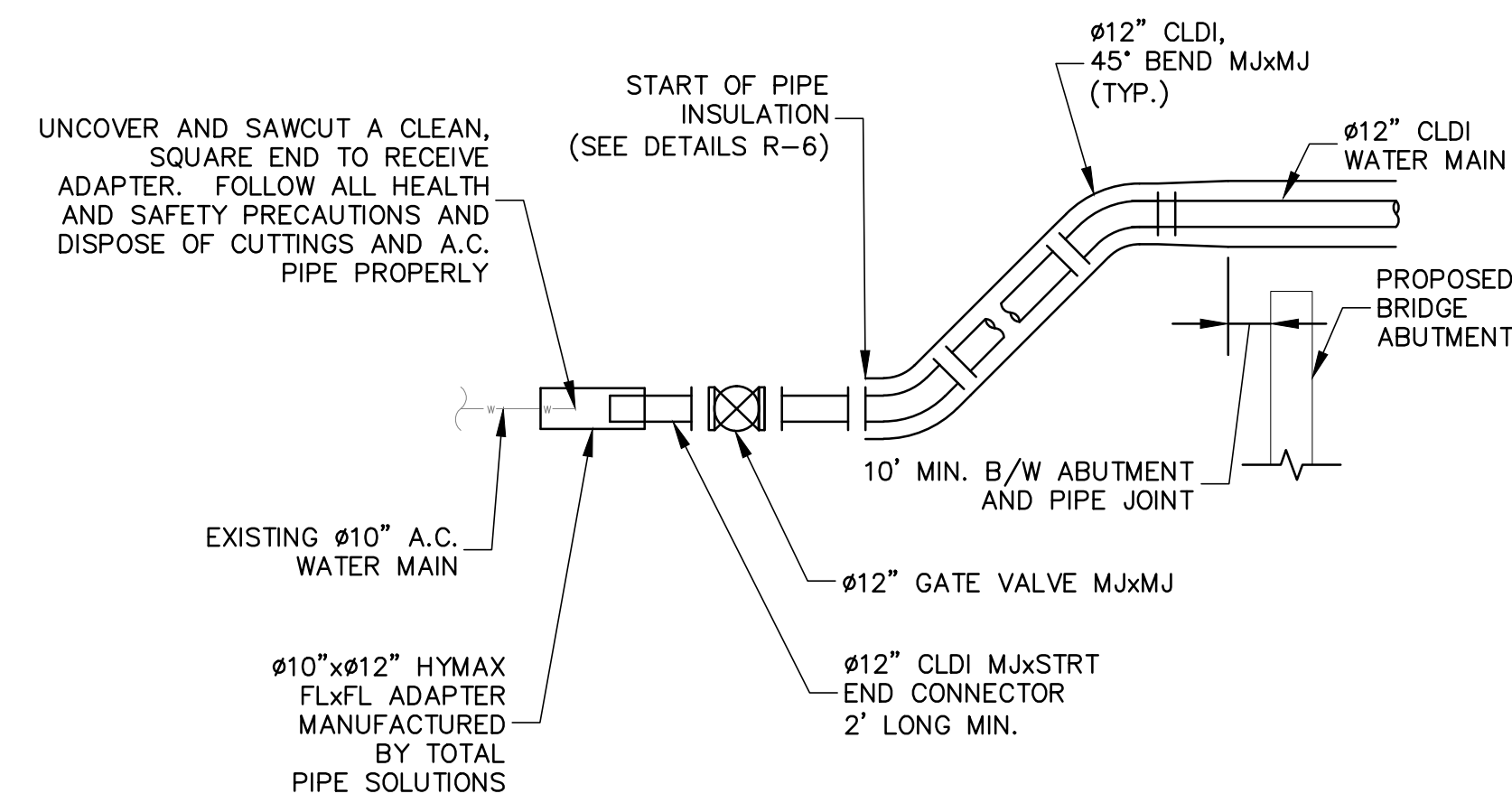
- 1 STA 12+75, LT 35.8 FT TO STA 12+87, LT 27.0 FT  
 INSTALL 14 FT OF 12" RC PIPE  
 INSTALL 4" I.D. DMH, 12+87, RT 27.0 FT  
 12" INV. IN: 25.40'  
 12" INV. OUT: 25.15'  
 RIM: 31.00'
- 2 STA 12+87, LT 27.0 FT TO STA 13+76, LT 26.0 FT  
 INSTALL 86 FT OF 12" RC PIPE  
 INSTALL 4" I.D. CB-B, 13+76, LT 26.0 FT  
 12" INV. OUT: 26.25'  
 RIM: 30.25'
- 3 INSTALL 5' D.I. DMH, 14+08, LT 6.5 FT  
 12" INV. IN: 26.25' (SEE DRAINAGE NOTE 3)  
 30" INV. IN: 23.65' ± (EX.) (SEE DRAINAGE NOTE 2)  
 30" INV. OUT: 23.65' ± (EX.) (SEE DRAINAGE NOTE 2)  
 RIM: 31.85'
- 4 STA 14+08, LT 6.5 FT TO STA 14+08, RT 16.9 FT  
 INSTALL 20 FT OF 12" RC PIPE  
 INSTALL 4" I.D. CB-B, 14+08, RT 16.9 FT  
 (WITH ECCENTRIC TOP, ROTATE PER PLANS)  
 12" INV. IN: 26.80' (SOUTH)  
 12" INV. IN: 26.80' (NORTH)  
 12" INV. OUT: 26.80'  
 RIM: 31.40'
- 5 STA 13+64, RT 13.0 FT TO STA 14+08, RT 16.9 FT  
 INSTALL 41 FT OF 12" RC PIPE  
 INSTALL DROP INLET TYPE D-B, 13+64, RT 13.0 FT  
 12" INV. OUT: 27.65'  
 RIM: 31.50'
- 6 STA 14+08, RT 16.9 FT TO STA 14+71, RT 17.8 FT  
 INSTALL 60 FT OF 12" RC PIPE  
 INSTALL 4" I.D. CB-B, 14+71, RT 17.8 FT  
 12" INV. OUT: 27.10'  
 RIM: 30.80'
- 7 STA 15+35, LT 7.0 FT TO STA 15+36, LT 30.8 FT  
 INSTALL 21 FT OF 12" RC PIPE  
 (CONNECT TO EX. DMH (SUBSIDIARY))  
 12" INV. = 25.45' (SEE DRAINAGE NOTE 3)  
 INSTALL 4" I.D. CB-B, 15+36, LT 30.8 FT  
 12" INV. IN: 25.95' ± (EX.) (SEE DRAINAGE NOTE 2)  
 12" INV. OUT: 25.70' (SEE DRAINAGE NOTE 2)  
 RIM: 31.45'

**Drainage Removal Notes:**

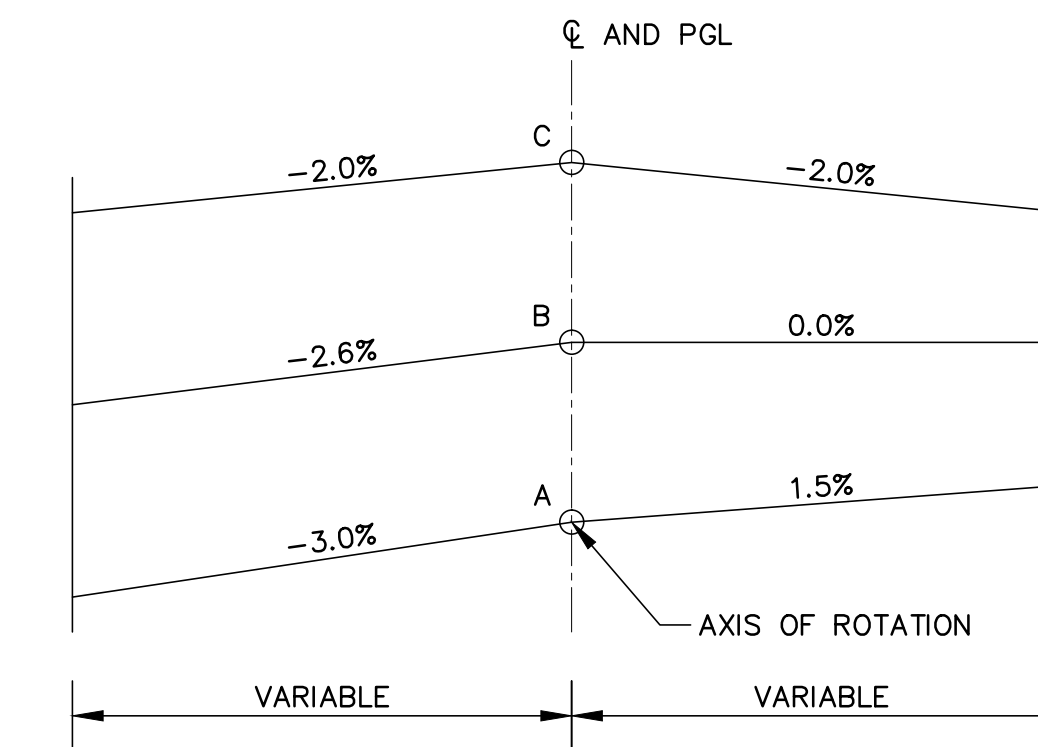
- 1) CONTRACTOR TO HAVE ENGINEER VERIFY ALL DRAINAGE STRUCTURES AND PIPING LISTED BELOW, PRIOR TO REMOVAL.
- 2) DRAINAGE STRUCTURES TO BE REMOVED:  
 STA. 13+06 LT 22.4'  
 STA. 13+51 RT 11.0'  
 STA. 14+59 RT 19.2'  
 STA. 15+35 LT 21.8'
- 3) ALL PIPING CONNECTED TO STRUCTURES BEING REMOVED SHALL ALSO BE REMOVED UNLESS PIPING WILL BE RECONNECTED TO A NEW STRUCTURE.

**Drainage Notes:**

- 1) CONTRACTOR TO FIELD VERIFY ELEVATIONS OF EXISTING 30" RCP DRAINAGE LINE WHERE IT IS BEING TIED INTO. ADJUST PROPOSED PIPE INVERTS AND DRAINAGE STRUCTURES AS NEEDED BASED ON ANY DIFFERENCE BETWEEN ACTUAL AND ASSUMED ELEVATIONS.
- 2) INV. IN AND INV. OUT ELEVATIONS SHALL BE SET BASED ON EXISTING PIPE INV. ELEVATIONS WHERE THE PROPOSED STRUCTURE INTERSECTS THE EXISTING PIPE.
- 3) INV. OF PROPOSED 12" RC PIPE SHALL BE SET SUCH THAT THE CROWN EL. IS ABOVE OR MATCHES THE HIGHEST CROWN EL. OF THE 30" RC PIPES PRESENT AT THE SAME MANHOLE.

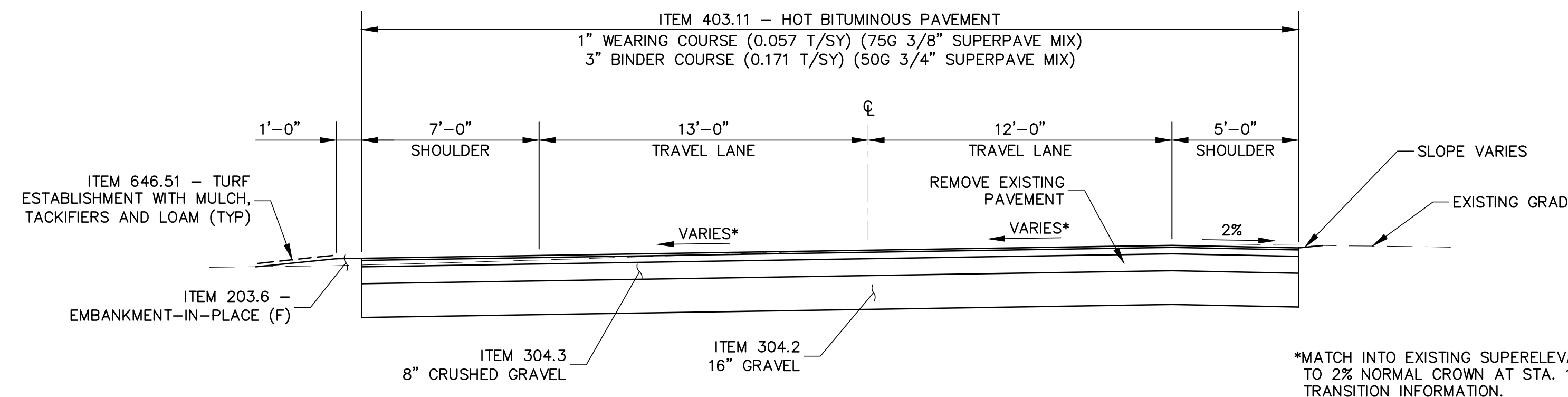


**Detail A (2 Typ)**  
 Not to Scale

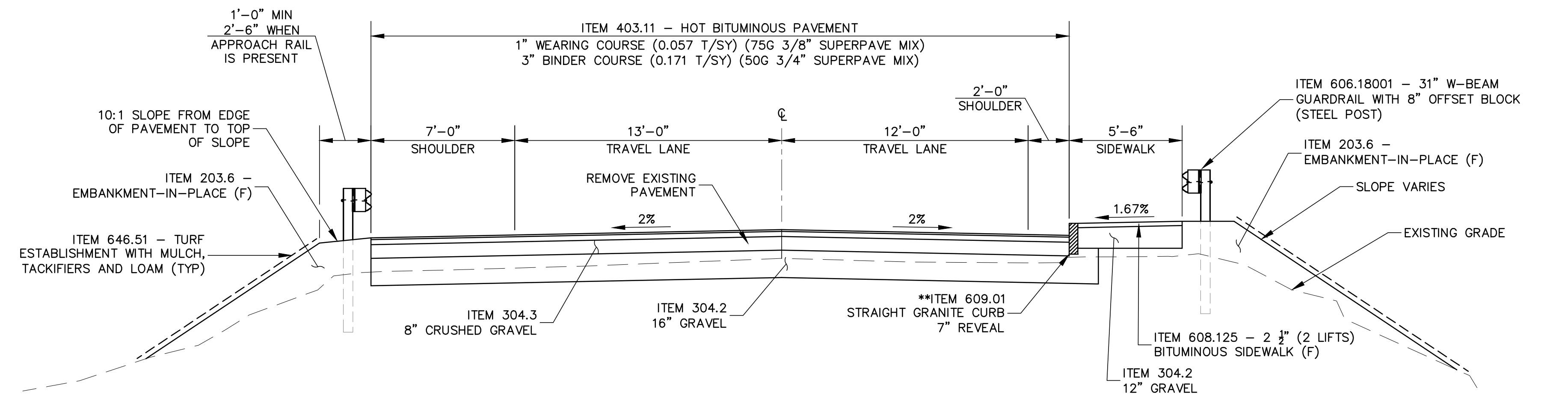


**Superelevation Break Points**  
 Not to Scale

CURVE NO.	A	B	C
1	10+75	11+07	11+50



**Typical Section (Superelevation)**  
 Not to Scale



**Typical Section (Normal Crown)**  
 Not to Scale

\*\*INSTALL GRANITE CURBING FROM:  
 STA. 11+96 TO STA. 12+06 LT  
 STA. 12+68 TO STA. 12+78 LT  
 STA. 12+67 TO STA. 13+89 RT  
 TAPER REVEAL TO BE FLUSH WITH DRIVEWAY APRON AT STA. 13+89  
 STA. 14+10 TO STA. 14+51 RT  
 TAPER REVEAL TO BE FLUSH WITH PAVEMENT AT BOTH ENDS  
 INSTALL 45 LF OF GRANITE CURB ALONG A 30'-0" RADIUS FROM:  
 STA. 12+08 RT ON COURT STREET TO STA. 20+44 LT ON BELL AVE.  
 STA. 20+44 TO STA. 20+57 LT ON BELL AVE.

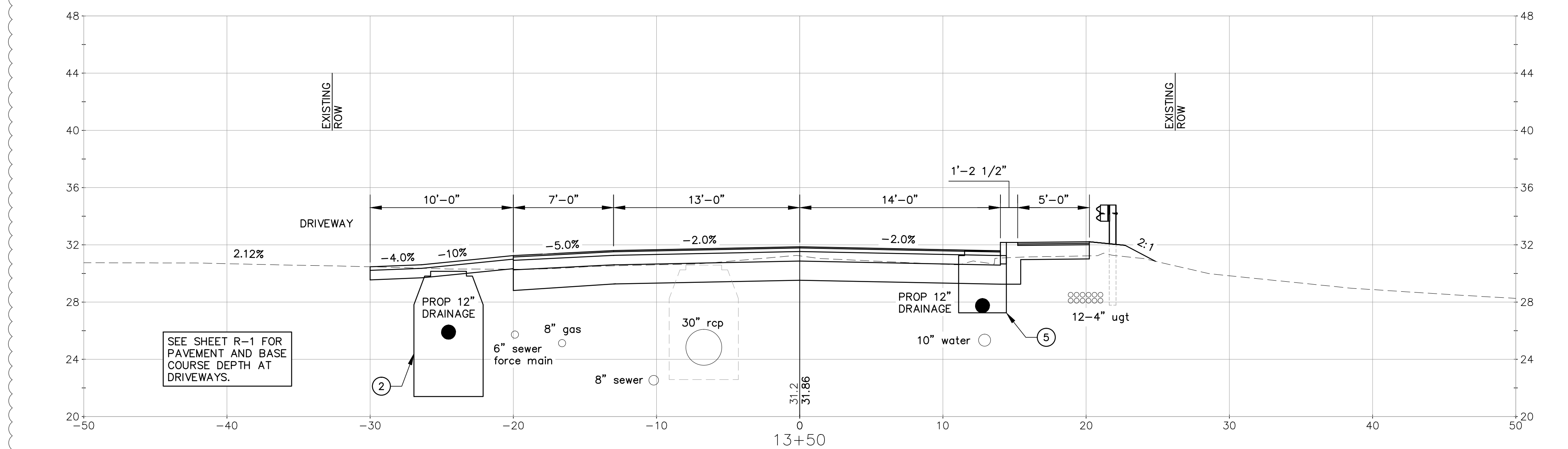
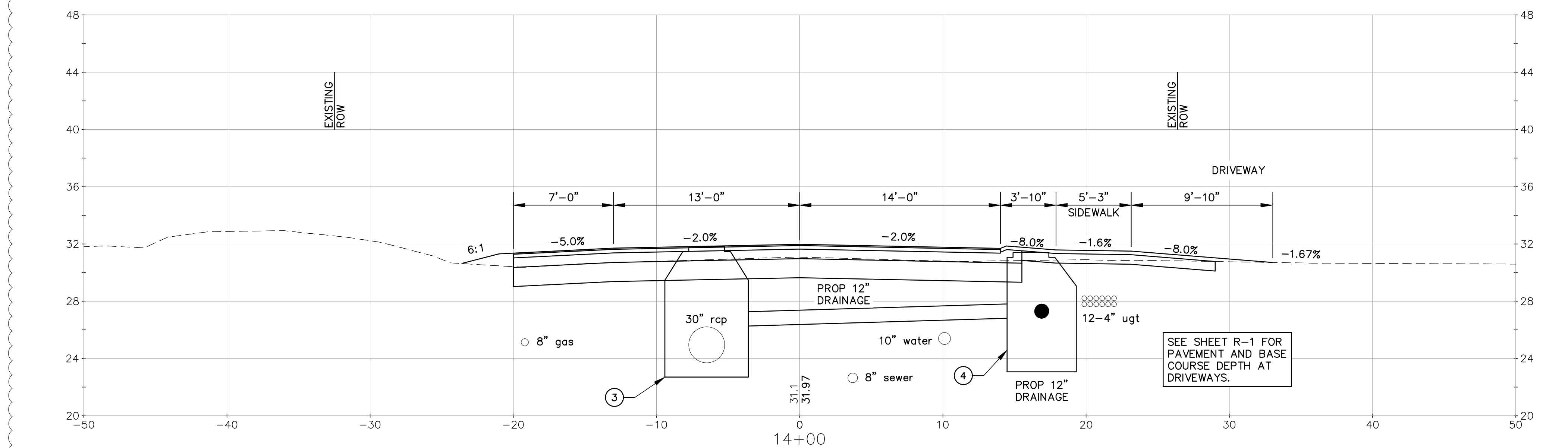
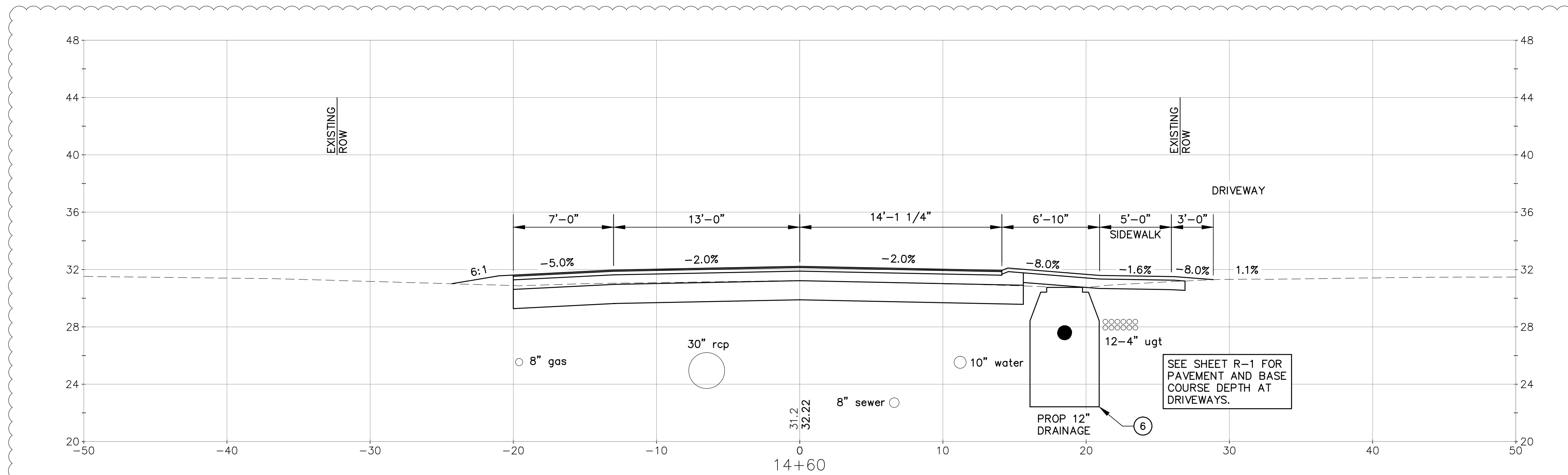
designed by: LBK/OGK  
 drawn by: LBK/BGP  
 approved by: JLG  
 date: April 2017  
 project no: 2017-01-01  
 file name: R-3.dwg  
 scale: 20' = 1" (Horizontal)  
 40' = 1" (Vertical)

Town of Exeter  
 Department of Public Works  
 Court Street  
 Little River Bridge Replacement  
 Roadway Plan and Profile  
 (Sheet 2 of 2)

drawing no: R-3  
 sheet: 25 of 34

CMA ENGINEERS  
 CIVIL/ENVIRONMENTAL/STRUCTURAL  
 Portsmouth, NH • Manchester, NH • Portland, ME  
 603/431-6196 • 603/627-0708 • 207/541-4223  
 c m a e n g i n e e r s . c o m

ALTERATIONS TO DRAINAGE LAYOUT  
 ISSUED FOR BID  
 5/15/17  
 4/24/17  
 JLG  
 JLG  
 by: JLG  
 date:



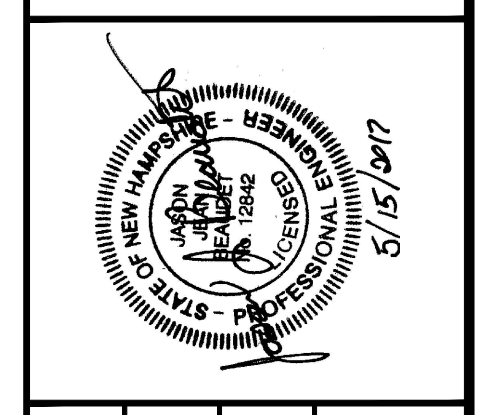
NOTE:  
DEPTH BELOW ROAD SURFACE TO EXISTING UTILITIES IS APPROXIMATE AND OR ASSUMED. CONTRACTOR TO TAKE CARE TO FIELD LOCATE UTILITIES AND COORDINATE RELOCATION WITH RESPECTIVE UTILITY OWNERS.

no.	0	revision
date	4/24/17	by
date	5/15/17	JLG
no.	1	ALTERATIONS TO DRAINAGE LAYOUT
no.	0	ISSUED FOR BID

**CMA ENGINEERS**  
CIVIL/ENVIRONMENTAL/STRUCTURAL

Portland, ME 603/431-6196  
Manchester, NH 603/627-0708

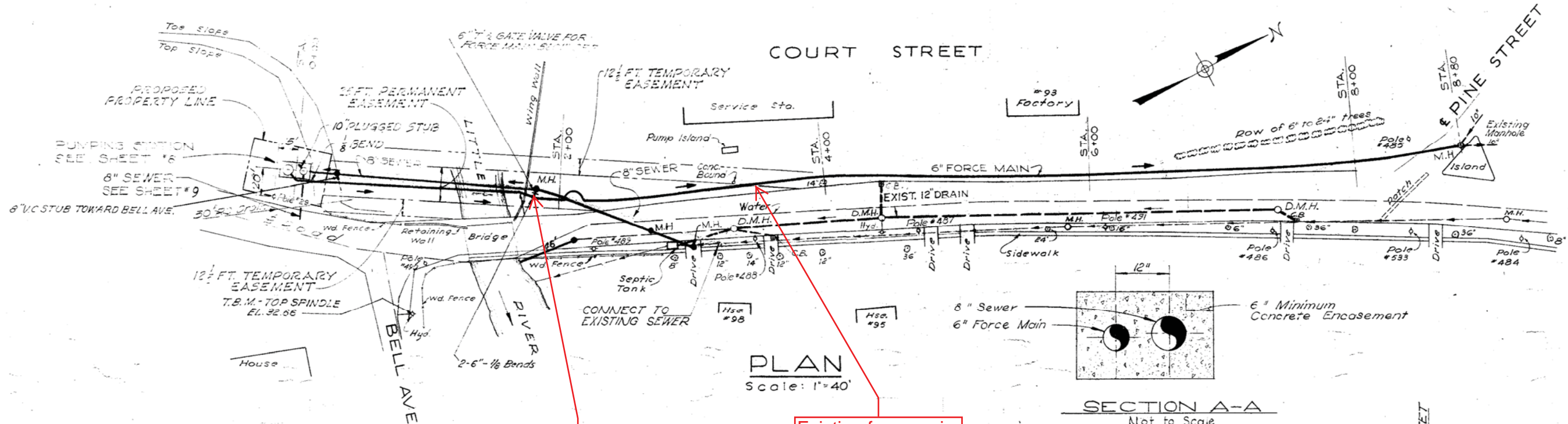
cm a e n g i n e e r s . c o m



date:	April 2017
project no.:	-----
file name:	R-6.dwg
designed by:	LBK/OGK
drawn by:	LBK/BGP
approved by:	JLG
scale:	

Town of Exeter  
Department of Public Works  
Court Street  
Little River Bridge Replacement  
Cross Sections  
(Sheet 3 of 4)



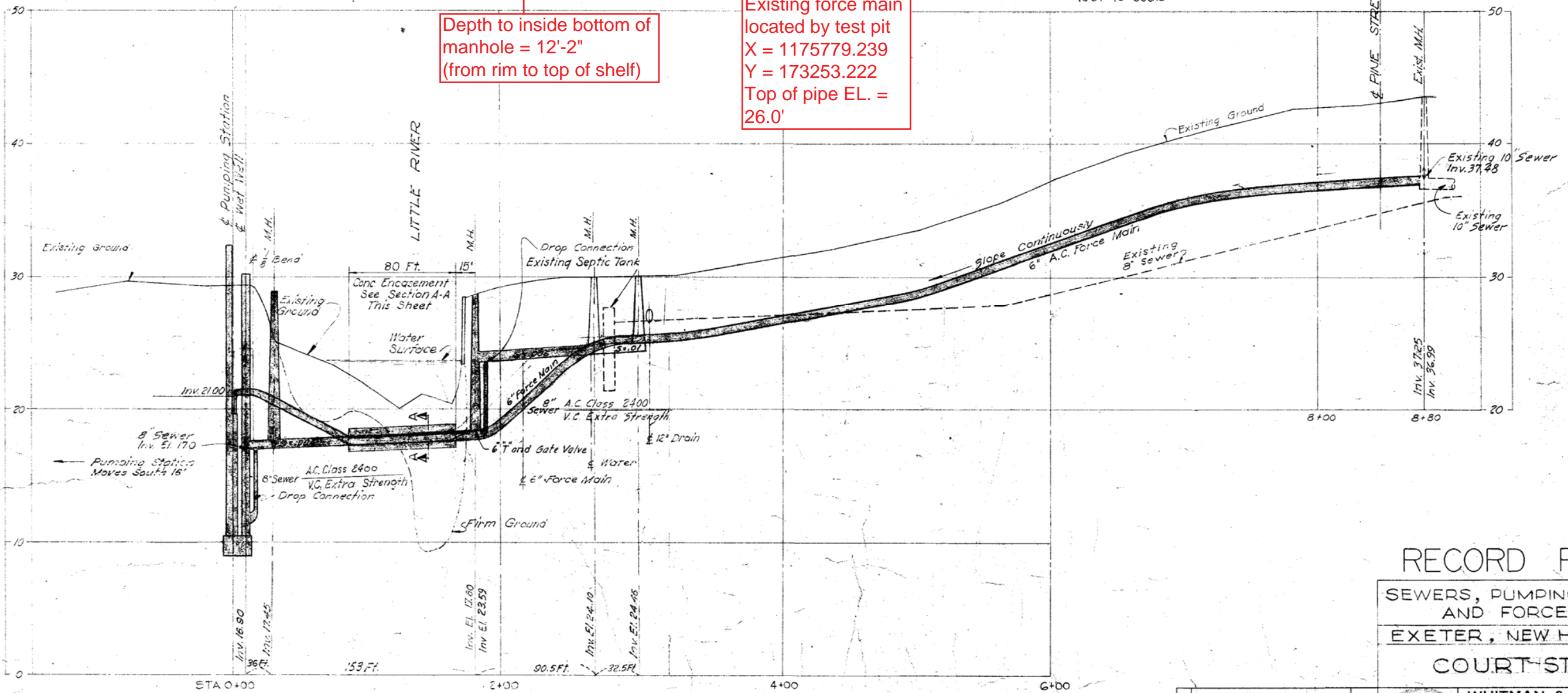


**PLAN**  
Scale: 1"=40'

**SECTION A-A**  
Not to Scale

Depth to inside bottom of manhole = 12'-2"  
(from rim to top of shelf)

Existing force main located by test pit  
X = 1175779.239  
Y = 173253.222  
Top of pipe EL. = 26.0'



**PROFILE**  
Scale: Hor. 1"=40'  
Vert. 1"=4'

**RECORD PLAN**

SEWERS, PUMPING STATIONS  
AND FORCE MAINS  
EXETER, NEW HAMPSHIRE  
COURT STREET

NO.		DESCRIPTION	DATE
REVISIONS			

		<b>WHITMAN &amp; HOWARD, INC.</b> 89 BROAD ST. ENGINEERS BOSTON, MASS.	
DESIGNED BY:	B. H. J.	SCALE:	A5 SHOWN
DRAWN BY:	H. B.	DATE:	APRIL 1964
CHECKED BY:	E. H. J.	APPROVED:	<i>Edward Howard</i>
		JOB NO.:	3-79
		SHEET 7 OF 8 SHEETS	