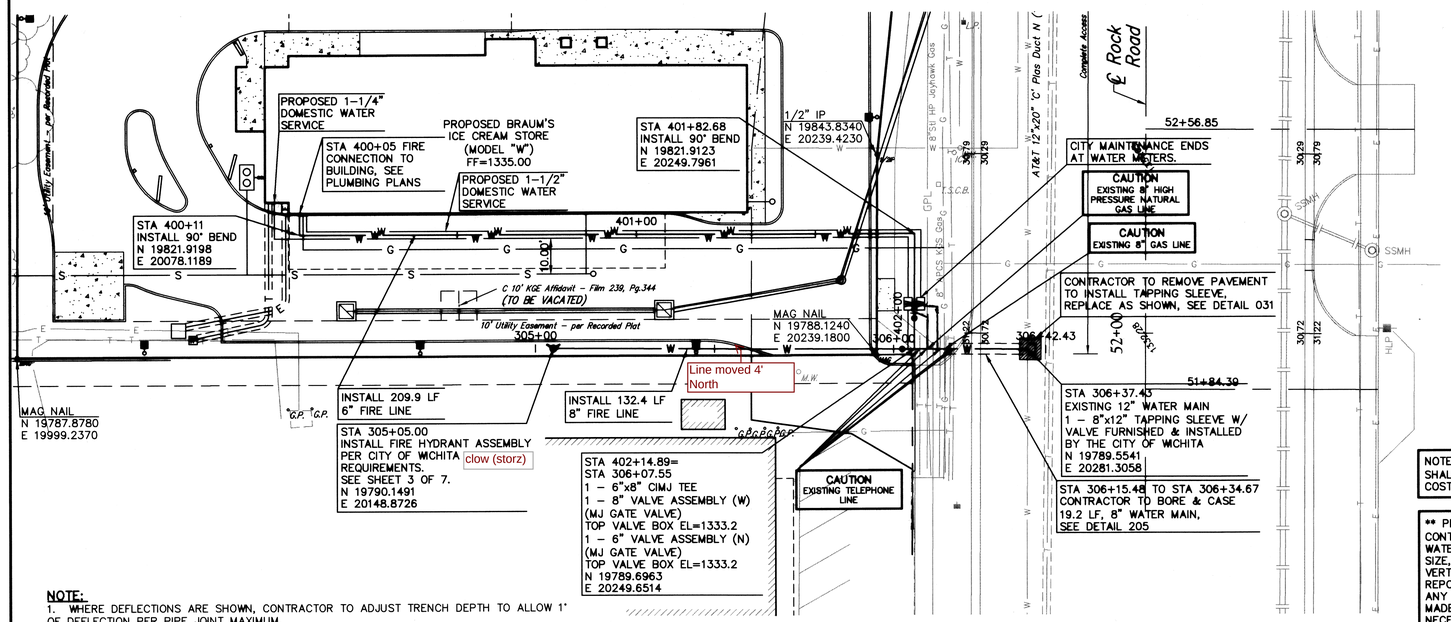



SCALE:
PLAN: 1"=20'
PROFILE: 1"=20' HORIZ
1"=5' VERT

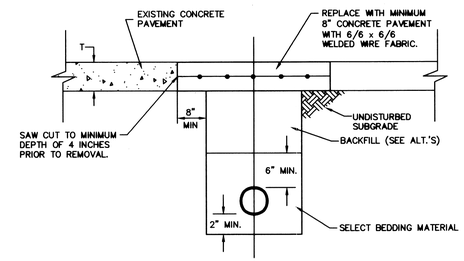
NOTE: CITY WILL MAKE THE TAP. CONTRACTOR SHALL REIMBURSE THE CITY $1,830.00 FOR THE COST OF THE TAPPING SLEEVE AND VALVE.

** PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE THE EXISTING 12" WATER MAIN AT STA 306+37.43 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS MAY BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

**NOTE:**

1. WHERE DEFLECTIONS ARE SHOWN, CONTRACTOR TO ADJUST TRENCH DEPTH TO ALLOW 1° OF DEFLECTION PER PIPE JOINT MAXIMUM.

2. ELEVATIONS GIVEN FOR WATER LINE ARE AT TOP OF PIPE. ADJUST ELEVATIONS AS REQUIRED TO MAINTAIN 42" COVER.

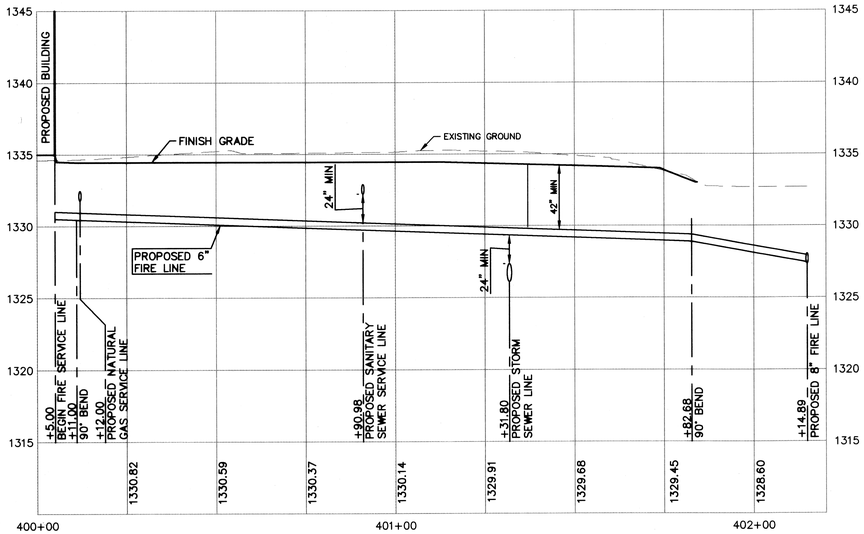



NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL. A MINIMUM OF ONE LANE OF TRAFFIC TO BE OPEN AT ALL TIMES. PROPOSED TRAFFIC CONTROL AND CONSTRUCTION SEQUENCING MUST BE APPROVED PRIOR TO BEGINNING CONSTRUCTION.

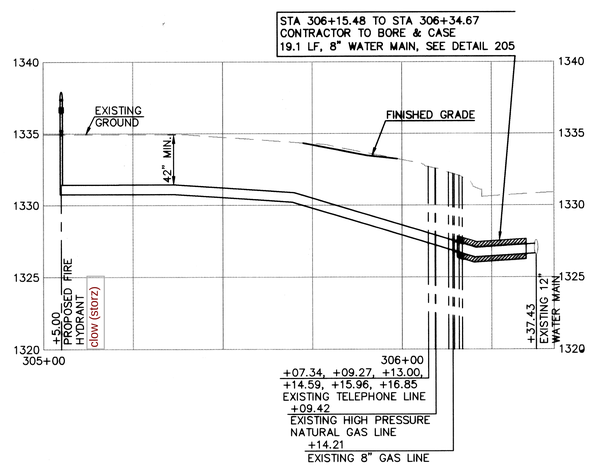
1. ALTERNATE BACKFILL METHODS
   A. CRUSHER RUN ROCK OR SOIL, FREE OF DEBRIS AND DELETERIOUS MATERIAL MAY BE USED WHEN COMPACTED TO A MINIMUM OF 95% DENSITY. BACKFILL IS SUBJECT TO APPROPRIATE IN-PLACE DENSITY TESTS.
   B. LEAN MIX CONCRETE FOR BACKFILL MAY BE USED IF VIBRATED TO FILL ALL VOIDS.
   C. CRUSHED ROCK FOR BACKFILL SHALL CONSIST OF 1 INCH MAXIMUM TO 1/4 MINIMUM CLEAN AGGREGATE, MANIPULATED AND COMPACTED TO ESTABLISH A FIRM INTERLOCK OF PARTICLES.
2. ALL CUTS
   ALL CUTS SHALL BE FILLED WITH GRAVEL MIX AS A TEMPORARY SURFACE IF FINAL SURFACE CANNOT BE INSTALLED.
3. CLEANUP
   ALL EXCESS MATERIAL, DEBRIS, MUD AND OTHER FOREIGN MATTER SHALL BE REMOVED FROM THE STREET RIGHT-OF-WAY IN A MANNER THAT RESTORES THE SURFACE TO ITS ORIGINAL CONDITION.

## STREET CUT RESTORATION 031
CONCRETE PAVEMENT

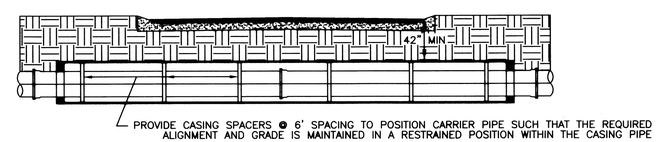
THE COORDINATES PROVIDED IN THESE PLANS ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN IN THE TABLE HEREON BEFORE CONSTRUCTION.




6" FIRE LINE
(TO BUILDING)

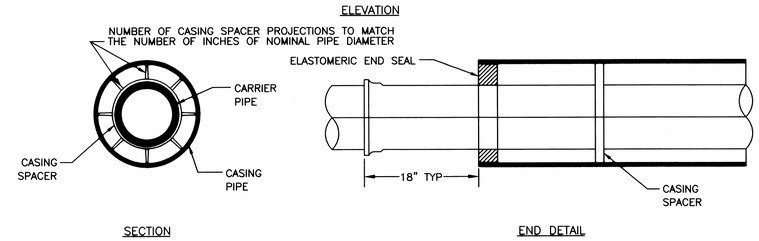



8" WATER MAIN
(TO HYDRANT)




PROVIDE CASING SPACERS @ 6' SPACING TO POSITION CARRIER PIPE SUCH THAT THE REQUIRED ALIGNMENT AND GRADE IS MAINTAINED IN A RESTRAINED POSITION WITHIN THE CASING PIPE

ELEVATION




SECTION

END DETAIL

NOTES:

1) CASING SPACERS SHALL USE DOUBLE-BACKED TAPE PROVIDED WITH THE SPACERS TO FASTEN THEM TIGHTLY ONTO THE CARRIER PIPE SO THAT THE SPACERS DO NOT MOVE DURING INSTALLATION.

2) CASING SPACERS SHALL BE PROJECTION-TYPE, TOTALLY NON-METALLIC CONSTRUCTED OF PREFORMED SECTIONS OF HIGH-DENSITY POLYETHYLENE.

3) CASING SPACERS SHALL BE ISO 9002 CERTIFIED FOR STRENGTH AND QUALITY.

## BORING & CASING 205

| REV | DATE | DESCRIPTION | DSN | DWN | CHK |
|---|---|---|---|---|---|
| 0 | 1-31-11 | INITIAL ISSUE | KDB | JL | |

KEITH D. BRADLEY LICENSED 1-31-11 16876 KANSAS PROFESSIONAL ENGINEER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**BRAUM'S ICE CREAM & DAIRY STORES**
**1261 S. ROCK ROAD**
**WICHITA, KANSAS**

**WATER LINE - PLAN & PROFILE**

| | |
|---|---|
| PROJ. NO. | A10_5014 |
| DATE | JAN 28, 2011 |
| DESIGNER | KDB |
| DRAWN BY | JP/BJH/JL |
| CFN | REV |
| WATERS&FIRE/5014WPP | 0 |
| SHEET | 2 OF 7 |


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KAW VALLEY ENGINEERING IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF KANSAS UNTIL DECEMBER 31, 2012 BY LICENSE NUMBER E-113



\\RHOONEE\D(Dwg)\A10_5014\DESIGN\WATER & FIRE COMBINED\5014WPP.dwg, 1/31/2011 10:05:46 AM, LJW