



CONSTRUCTION NOTES:

- REFER TO ARCHITECT'S SITE PLAN FOR BUILDING AND PARKING LAYOUT DIMENSIONS AND LOCATIONS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS, SHOWN OR NOT SHOWN. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
- THE UTILITY CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF THE BUILDING PIPE SYSTEM PRIOR TO CONSTRUCTING SERVICE CONNECTIONS.
- ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF ELK RIVER SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS.
- 6" WATERMAIN SHALL BE CLASS 52 DIP CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51 AND C104/A21.4. FITTINGS SHALL BE CLASS 250 CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53. HYDRANTS SHALL BE THE PACER AS MANUFACTURED BY WATEROUS CO. OR APPROVED EQUAL COMPLYING WITH THE THE CITY OF ELK RIVER. GATE VALVES SHALL BE SINGLE DISC TYPE WITH RESILIENT SEAT MEETING THE REQUIREMENTS OF AWWA C509. ALL PLUGS, TEES, BENDS AND OTHER THRUST POINTS SHALL BE PROVIDED WITH CONCRETE REACTION BACKING OR MEGA LUG. ALL WATERMAIN SHALL BE INSTALLED WITH A MINIMUM OF 7.5' COVER AND IN ACCORDANCE WITH AWWA C600 AND CONDUCTIVITY PROVISIONS CONFORMING TO ANSI/AWWA C111/A21.11. BEFORE BEING PLACED IN SERVICE, THE COMPLETED WATERMAIN SHALL BE DISINFECTED AND FLUSHED IN ACCORDANCE WITH AWWA C651 AND THE REQUIREMENTS OF THE MINNESOTA DEPARTMENT OF HEALTH.
- SANITARY SEWER SHALL BE 8" AND 6" PVC-SDR-35 UNLESS NOTED DIFFERENTLY. MANHOLES SHALL BE 48" DIAMETER PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C478. CASTING SHALL BE NEENAH R-1642 WITH TYPE "B" COVER. MANHOLES SHALL HAVE A MINIMUM OF TWO AND A MAXIMUM OF FOUR ADJUSTMENT RINGS. ALL PIPE CONNECTIONS TO EXISTING UTILITY STRUCTURES SHALL BE "KOR-N-SEAL" OR CITY APPROVED EQUAL. FOR CONCRETE BLOCK OR BRICK STRUCTURES, CONSTRUCT AN OPENING EQUAL TO THE PIPE SIZE, GROUT AROUND PIPE TO CLOSE OPENING, AND REPAIR STRUCTURE TO CITY REQUIREMENTS. THE CONTRACTOR SHALL VERIFY TYPE OF CONNECTION WITH CITY ENGINEERING DEPARTMENT AND COORDINATE ANY REQUIRED CITY INSPECTIONS NEEDED FOR CITY ACCEPTANCE.
- UTILITY TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698.78 OR AASHTO T-99) FROM THE PIPE ZONE TO WITHIN THREE FEET OF THE GROUND SURFACE AND 100% STANDARD PROCTOR IN THE UPPER THREE FEET.
- CONNECTION TO THE EXISTING SANITARY SEWER AND WATER REQUIRES INSPECTION BY THE CITY OF ELK RIVER.
- FIELD ADJUST ALL CASTINGS TO MATCH FINAL GRADES.
- CONTRACTOR SHALL CONTACT 'GOPHER STATE ONE CALL' WITHIN TWO WORKING DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS. TWIN CITIES METRO AREA: 651-454-0002 OR TOLL-FREE: 1-800-252-1166.
- THE EXISTING BITUMINOUS PAVEMENT SHALL BE SAWCUT IN ACCORDANCE WITH Mn/DOT SPECIFICATIONS.
- CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE SEWER, WATER AND PLUMBING PERMITS FROM THE CITY'S BUILDING DEPARTMENT.
- GENERAL CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY COMPANIES.

LEGEND

- DENOTES BOUNDARY LINE
- DENOTES DRAINAGE/UTILITY EASEMENT
- DENOTES EXISTING STORM SEWER
- DENOTES EXISTING WATERMAIN
- DENOTES PROPOSED WATERMAIN
- DENOTES EXISTING SANITARY SEWER
- DENOTES PROPOSED SANITARY SEWER
- DENOTES EXISTING BUILDING
- DENOTES PROPOSED BUILDING
- DENOTES FUTURE BUILDING
- DENOTES EXISTING FES
- DENOTES EXISTING STORM MANHOLE/CB
- DENOTES EXISTING SANITARY MANHOLE
- DENOTES EXISTING HYDRANT
- DENOTES EXISTING GATE VALVE
- DENOTES PROPOSED HYDRANT
- DENOTES PROPOSED GATE VALVE

**AS-STAKED RECORD DRAWING
UTILITY CONTRACTOR
EBERT CONSTRUCTION
OCTOBER 12, 2006**

UTILITY LOCATIONS SHOWN
ARE BASED ON AS-STAKED
LOCATIONS FOR CONSTRUCTION.
EBERT CONSTRUCTION CONFIRMED
UTILITIES CONSTRUCTED AS-STAKED.

WARNING
THE CONTRACTOR SHALL CONTACT ALL PUBLIC UTILITIES FOR LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES, OR OTHER BURIED STRUCTURES BEFORE DIGGING. HE SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO OWNER.

**SEE ELK RIDGE CENTER 3RD ADDITION
FOR STORM SEWER
CONSTRUCTION**

| Revisions | Date: | Description: | By: | Date: | Description: | By: |
|-----------|----------|------------------------------------|-----|-------|--------------|-----|
| | 04/27/06 | City Comments | | | | |
| | 05/12/06 | ADDED CLEANOUT ON SANITARY SERVICE | ZRE | | | |
| | 10/12/06 | AS-STAKED DRAWING | MCH | | | |
| | 12/4/06 | AS-STAKED DRAWING REVISIONS | MCH | | | |

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a licensed Professional Engineer under the laws of the State of Minnesota.

Kenneth Adolf
Date: 02/24/06 Reg. No. 12048

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Project Name/Location:
**PEARLE VISION
ELK RIDGE CENTER
ELK RIVER, MN**

Sheet Title:
**AS-STAKED RECORD DRAWING
UTILITY PLAN**

Date:
02/23/06

Sheet:
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