

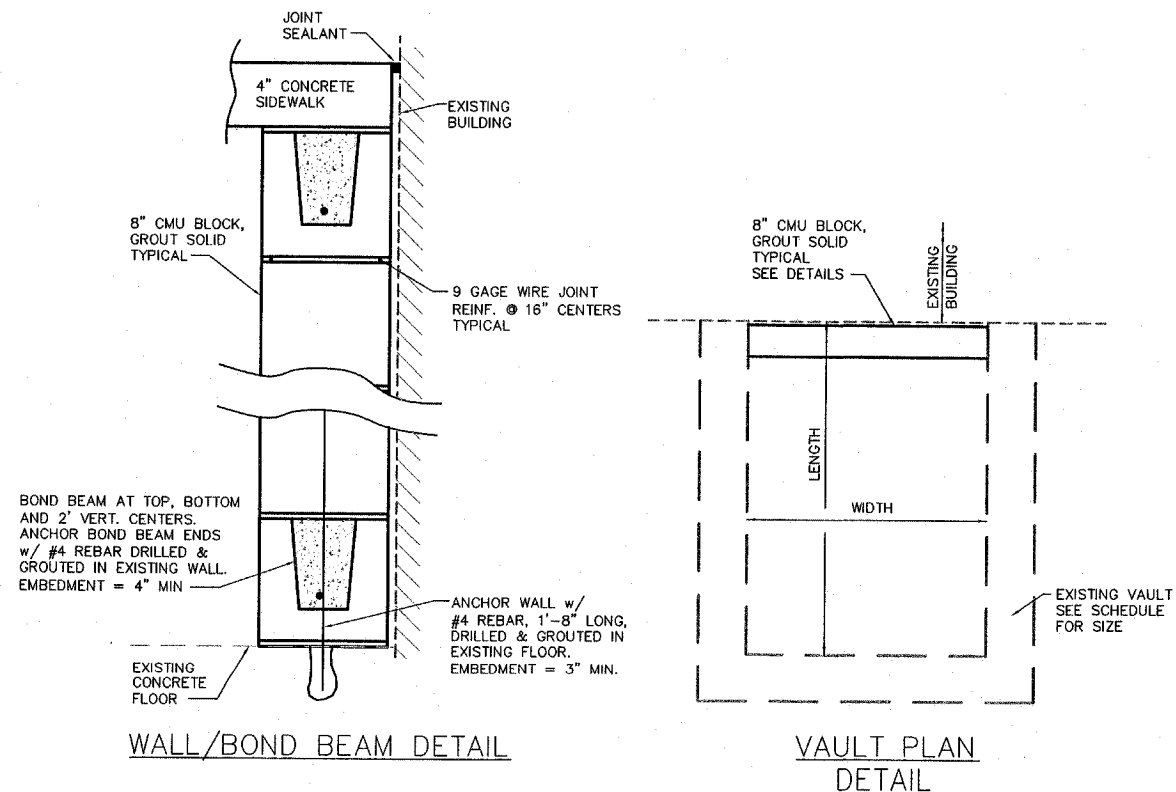
TYPICAL VAULT SECTIONS

VAULT NOTES

- STEEL PLATES SHALL CONFORM TO ASTM A36.
- STEEL SHAPES SHALL CONFORM TO ASTM A992.
- CONTRACTOR SHALL CONTACT THE PROPERTY OWNER PRIOR TO BEGINNING WORK ON THE RESPECTIVE VAULTS AND COORDINATE THE WORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OF EXISTING VAULT WALLS & CEILINGS, IF NEEDED, PRIOR TO REMOVING THE CONCRETE SIDEWALKS/TOPS.
- CONTRACTOR SHALL ALSO PROVIDE PROTECTION FOR THE ADJACENT STRUCTURE FROM WATER/SEEPAGE. ALL OPEN VAULTS/EXCAVATIONS SHALL BE BARRICADED/FENCED.
- VAULTS SHOWN ON THE PLANS HAVE BEEN LOCATED BASED ON INFORMATION PROVIDED BY THE RESPECTIVE PROPERTY OWNERS AND THE CITY OF BELLEVILLE. IT IS POSSIBLE OTHER VAULTS EXIST THEREFORE THE CONTRACTOR SHOULD EXERCISE CAUTION DURING REMOVAL OPERATIONS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS IN VAULTS PRIOR TO BEGINNING FILL OPERATIONS.
- ALL GAPS/OPEN JOINTS SHALL BE SEALED WITH A POLYURETHANE SEALANT THAT IS A ONE-COMPONENT HIGH-PERFORMANCE GUN-GRADE MOISTURE-CURING POLYURETHANE SEALANT DESIGNED FOR A WIDE RANGE OF SEALING AND CAULKING APPLICATIONS IN ACTIVE EXTERIOR JOINTS, INCLUDING STEEL, CONCRETE AND MASONRY.
- CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL BE ACCORDING TO THE IDOT STANDARD SPECIFICATIONS, SECTION 1019. THE CLSM SHALL BE CONSTRUCTED IN MAXIMUM OF 48" LIFTS WITH A MINIMUM OF 6 HRS CURE OR UNTIL FIRM IN VAULTS 10' WIDE OR LESS. CLSM SHALL BE CONSTRUCTED IN MAXIMUM OF 24" LIFTS WITH A MINIMUM OF 6 HRS CURE OR UNTIL FIRM IN VAULTS OVER 10' WIDE.
- ALL WORK NOTED ABOVE SHALL BE INCLUDED WITH THE COST OF THE PAY ITEMS ASSOCIATED WITH THE VAULTS.
- FINAL SIDEWALK GRADES SHALL SLOPE AWAY FROM EXISTING BUILDINGS.
- NO MOTORIZED EQUIPMENT WILL BE PERMITTED ON THE EXISTING AND NEW VAULT SLABS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
- HYDRAULIC BREAKERS WILL NOT BE PERMITTED FOR REMOVAL OF EXISTING VAULT ELEMENTS.
- PROPOSED SIDEWALK JOINTING SHALL BE LOCATED IN COORDINATION WITH THE VAULTS THAT ARE TO REMAIN IN PLACE.

CONCRETE MASONRY NOTES

- CONCRETE MASONRY UNITS (CMU) SHALL BE HOLLOW CORE LOAD BEARING, TYPE 1, NORMAL WEIGHT CONFORMING TO ASTM C90. INDIVIDUAL BLOCKS SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI.
- CMU UNITS SHALL HAVE NOMINAL FACE DIMENSIONS OF 8"x16".
- MORTAR SHALL BE IN ACCORDANCE WITH ASTM C270, TYPE N.
- GROUT FOR FILLING CELLS AND BOND BEAMS SHALL CONFORM TO ASTM C476. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- WIRE REINFORCEMENT SHALL CONFORM TO ASTM A82 AND BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- REINFORCEMENT BARS FOR BOND BEAMS AND DOWELS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED.
- SEE SPECIAL PROVISIONS FOR DETAILED REQUIREMENTS.



WALL/BOND BEAM DETAIL

VAULT PLAN DETAIL

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A Discharge Business Enterprise

PROFESSIONAL REGISTRATIONS LICENSE NO. 16100773
LAWYER PROFESSIONAL DESIGN FIRM
PROFESSIONAL ENGINEERING CORP. 21-508098

REV.	DATE	DESCRIP
△	08/29/2007	FIRST REVIEW
△	XX/XX/XX	XXXXXXX
△	XX/XX/XX	XXXXXXX

VAULT DETAILS & NOTES

SHEET TITLE:
PROJECT TITLE:
DOWNTOWN BELLEVILLE STREETSCAPE PH. 2
CITY OF BELLEVILLE
ST. CLAIR COUNTY, ILLINOIS

DESIGNED BY: JAH
DRAWN BY: CHA/DWK
CHECKED BY: JAH
DATE OF PRELIMINARY: 08/20/2007
DATE OF FINAL: 9/11/2007

9/11/07
EXPIRES 11/30/08

DESIGNED BY: JAH	SHEET
DRAWN BY: CHA/DWK	
CHECKED BY: JAH	
DATE OF PRELIMINARY: 08/20/2007	26
DATE OF FINAL: 9/11/2007	
SHEET NO. 26 OF 48 SHEETS	
PROJECT NUMBER 07-0041	