

UTILITY NOTES

- REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR CONTINUATION OF UTILITIES WITHIN 5 FEET OF STRUCTURES.
- PRESSURE UTILITY MAINS AND SERVICE LINES MAY NEED TO BE INSTALLED AT A DEPTH GREATER THAN THAT SPECIFIED OR SHOWN ON THE DRAWINGS TO CLEAR EXISTING AND PROPOSED CROSSING UTILITIES. IN SUCH CASES, THE CONTRACTOR SHALL INSTALL VERTICAL BENDS AS REQUIRED TO ACHIEVE APPROPRIATE CLEARANCE BETWEEN THE CROSSING UTILITIES.
- A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT ALL TIMES. A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN WATER LINES AND SEWERS SHALL BE MAINTAINED AT CROSSINGS. IN THE EVENT THAT MINIMUM SEPARATION REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL UTILIZE PRESSURE-TYPE WATER PIPE FOR THE SEWER PER DETAIL SA-4.
- WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 54 INCHES OF COVER AS MEASURED FROM THE TOP OF THE PIPE TO THE FINAL FINISH GRADE ABOVE THE PIPE.
- THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE INSTALLED ON ALL WATER LINES AT ALL BENDS, TEES AND HYDRANTS PER THE DETAILS.
- PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES ROUNDED TO THE NEAREST FOOT.
- PIPE LENGTHS SHOWN FOR STORM SEWERS ARE MEASURED TO THE DOWNSTREAM END OF END SECTIONS.
- WHERE GRADE MODIFICATIONS (CUT OR FILL) ARE SHOWN ADJACENT TO EXISTING VALVE BOX COVERS AND MANHOLE CASTINGS, THE VALVE BOX COVERS AND MANHOLE CASTINGS SHALL BE ADJUSTED FLUSH WITH THE PROPOSED GRADE.
- ADJUSTMENTS OF EXISTING MANHOLE CASTINGS TO GRADE TO A MAXIMUM OF 12 INCHES SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS PROVIDED THE TOTAL HEIGHT OF EXISTING AND NEW ADJUSTING RINGS DOES NOT EXCEED 12 INCHES.
- ADJUSTMENTS OF CASTINGS WHERE THE TOTAL HEIGHT OF ADJUSTING RINGS WOULD EXCEED 12 INCHES SHALL BE MADE BY REPLACING THE COKE AND/OR BARREL SECTION OF THE STRUCTURE.
- PAVEMENTS, WALKS, CURBS AND OTHER SURFACE IMPROVEMENTS REQUIRING REMOVAL FOR INSTALLATION OF UNDERGROUND UTILITIES SHALL BE RESTORED TO THEIR PRESENT CONDITION UNLESS OTHERWISE SHOWN.
- MANHOLE CASTINGS LOCATED WITHIN ASPHALT PAVEMENT AREAS SHALL INCLUDE A CONCRETE PAVED COLLAR EXTENDING A MINIMUM OF 12 INCHES IN ALL DIRECTIONS FROM THE EDGE OF THE CASTING PER THE DETAILS.

LEGEND OF PROPOSED UTILITY IMPROVEMENTS

UTILITY	DESCRIPTION	LINE TYPE/SYMBOL
SANITARY SEWERS		
STRUCTURE NUMBER	(200)	
RIM ELEVATION	RIM 825.75	
INVERT ELEVATION	IE 817.25	
PIPE WITH SIZE AS SHOWN	12"	
FORCE MAIN	FM	
MANHOLE	M	
LATERAL SIZE AS SHOWN	6"	
CLEAN OUT	C.O.	
STORM SEWERS		
STRUCTURE NUMBER	(100)	
RIM ELEVATION	RIM 825.50	
INVERT ELEVATION	IE 817.50	
PIPE WITH SIZE AS SHOWN	12"	
SUB-SURFACE DRAIN - SIZE AS SHOWN	1 1/2" x 1 1/2"	
LATERAL	L	
INLETS	I	
END SECTION	ES	
MANHOLE	M	
ROOF DRAIN / DOWNSPOUT	D.S.	
SWALE / FLOW LINE	SW	
CLEANOUT	C.O.	
WATERLINE		
WATERLINE - SIZE AS SHOWN	8"	
FIRE LINE - SIZE AS SHOWN	8"	
BENDS	B	
FITTINGS	F	
VALVES	V	
METER	M	
FIRE HYDRANT	H	
AIR RELIEF VALVE	ARV	
BLOW OFF ASSEMBLY	BOA	
POST INDICATOR VALVE (PIV)	PIV	
FIRE DEPT. CONNECTION	FD	
SPRINKLER HEAD	SH	
GAS		
GAS LINE - SIZE AS SHOWN	8"	
GAS METER	G	
GAS VALVE	GV	
ELECTRIC		
BURIED ELECTRIC LINE	ELC	
AERIAL ELECTRIC	ELC	
TRANSFORMER	T	
POWER POLE	P	
PARKING LOT LIGHTING	L	
AREA LIGHTING	AL	
METER	M	
MANHOLE	M	
HVAC	H	
TELEPHONE		
AERIAL TELEPHONE LINE	T	
BURIED TELEPHONE	ELC	
PEDESTAL	P	

NOTES:
SEE EXISTING CONDITIONS PLAN FOR EXISTING UTILITY LEGEND.
EXISTING UTILITY LINE TYPES ARE NOTED WITHIN BRACKETS.



REVISD PFE AND RIM ELEVATIONS FOR STR. #501, AND STR. #503
REVISD WATER VAULT AND WATER MAIN, ADD HYDRANT AT ENTRANCE. DATE: 09-27-07

BENCHMARK DATA
PROJECT BENCHMARK:
U.S.G.S. DATUM BENCHMARK INFORMATION:
FEMA Benchmark Mark 130-4 is a chiseled square set in end of southeast wing wall of bridge over North Cold Creek on Flipping Road in Section 30, T-19-N, R-4-E.
B.M. ELEVATION = 860.12 (VDW02)

DATE BENCHMARK:
BENCH SET IN THE NORTHWEST CORNER OF POW-001 8075-524 84, which is along the North side of 19th Street 121 feet east of the southeast corner of the surveyed parcel.
B.M. ELEVATION = 861.27

"HOLEY MOLEY" SAYS CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU DO IT'S THE EASY

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF INDIANA

Project No. 2005.014
Project Date 13 June 2007
Produced khk
Revision Date SEPTEMBER 27, 2007

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Lord of Life Lutheran Church
4445 East 191st Street
Westfield, Indiana 46074

2005.014
Utility Plan
C201



Proposed Garage and Privacy
Screen for Lord of Life Lutheran
Church

Mixture of evergreens
White pine
Norway Spruce
Loblolly x Pitch Pine
Arborvitae



With power company approval
proposed tree transplants 2009-2010

Proposed tree transplants 2009-2010
Proposed tree transplants 2011

- Original plantings
- Future Garage
- Trash corral
- White pine
- Arborvitae
- Norway Spruce
- Lobloby x pitch pine
- Austrian pine
- Redbud
- Flowering Crabapple
- River Birch
- Red Oak
- White Oak
- Tulip Tree
- TBD



Design # 76874



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8/18/2009

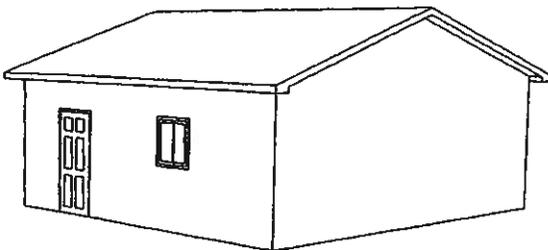
*** Take this sheet to the Building Materials counter to purchase your materials.

You have selected a Garage with:

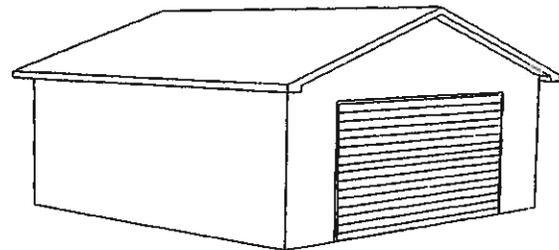
- 24' Wide X 24' Deep X 9' High
- Gable roof w/ 4/12 pitch trusses 2' O.C.
- 2x4 Wall Framing Material
- 12" gable/12" eave overhangs
- 7/16" OSB Wall Sheathing
- Typar Housewrap
- 7/16" OSB Roof Sheathing
- 8" Textured Fiber Cement Lap Siding
- 1x4 Smart Trim Outside Corners
- 20 yr. Classic, Bark Brown Shingles
- Sandstone Aluminum Soffit & Fascia
- Sandstone Premium Roof Edge
- White Vinyl Overhead Door Jamb
- 1 - Garage Door Opener

The options you have selected are:
15 LB Roof Felt

Front View



Back View



Today's cost for materials estimated in this design: \$4,339.83

*The base price includes: 0" Eave/0" Gable Overhangs, Framing Materials, 7/16 OSB Roof Sheathing, 20 yr. Fiberglass Classic - Onyx Black Shingles, Pine Fascia, Galvanized Regular Roof Edge, 8" Textured Vertical Hardboard Siding, No Service Doors, No Overhead Doors, No Windows, or Any Other Options.

*(BASE price): \$2,315.51

If purchased today, you save: \$367.35

Monthly BIG Card Payment would be: \$121.88

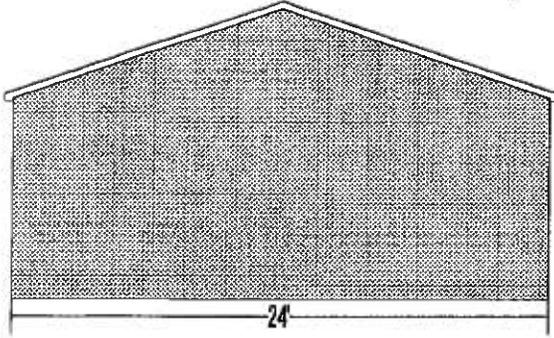
All information on this form, other than price, has been provided by guest and Menards is not responsible for any errors in the information on this estimate, including but not limited to quantity, dimension and quality. Please examine this estimate carefully. MENARDS MAKES NO REPRESENTATIONS, ORAL, WRITTEN OR OTHERWISE, THAT THE MATERIALS LISTED ARE SUITABLE FOR ANY PURPOSE BEING CONSIDERED BY THE GUEST. BECAUSE OF THE WIDE VARIATIONS IN CODES, THERE ARE NO REPRESENTATIONS THAT THE MATERIALS LISTED HEREIN MEET YOUR CODE REQUIREMENTS.

Design # 76874

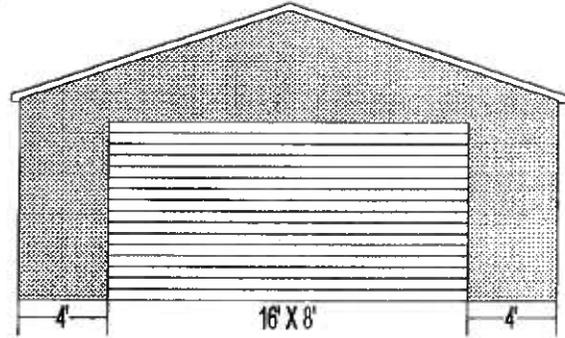


*** Here are the wall configurations for your design.

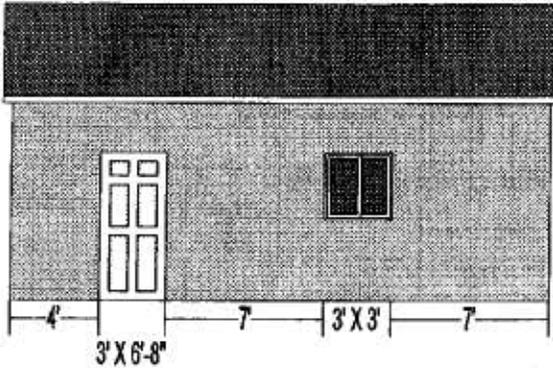
Illustration May Not Depict All Options Selected



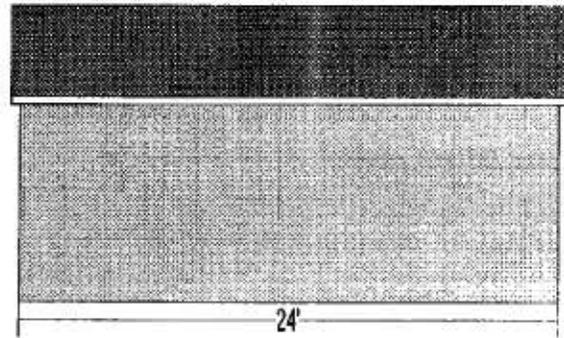
Gable Front View



Gable Back View



Eave Front View



Eave Back View

Menards provided material estimates are intended as a general construction aid and have been calculated using typical construction methods. Because of the wide variable in codes and site restrictions, all final plans and material lists must be verified with your local zoning office, architect and/or builder for building design and code compliance. Menards is a supplier of construction materials and does not assume liability for design, engineering or the completeness of any material lists provided. Underground electrical, phone and gas lines should be located and marked before your building plans are finalized. Remember to use safety equipment including dust masks and sight and hearing protection during construction to ensure a positive building experience.