

NEW HOMES & ADDITIONS

REQUIRED INSPECTIONS

1. Location and setback prior to any excavation. Property markers must be visible for this inspection unless determined to be unnecessary by the Building Official.
2. Footer excavation and forming, prior to pouring concrete.
3. Foundation walls prior to pouring and before back-filling, garage floor before pouring, & driveway and sidewalks before pouring.
4. Structural inspection for exterior & interior walls, floor system, roof system and stairways.
5. Rough-in for electrical, mechanical, plumbing and insulation.
6. Siding, interior wall cover (drywall), fire place and other specialty items.
7. Final inspection on electrical, mechanical, & Plumbing.
8. Final on stairways banisters & balusters, guard rails, smoke detectors.

Occupancy for new homes & additions is issued only after the above inspections have been approved. In addition, for new homes, water meters must be installed and utilities must be placed in the name of the person who will occupy the dwelling.

For inspections call (419)592-4010 ask for Tom Zimmerman.

MINIMUM REQUIREMENTS FOR RESIDENTIAL CONSTRUCTION, SITE DEVELOPMENT & UTILITY SPECIFICATIONS.

1. Two complete sets of plans are required. Plans shall include elevation drawings, floor plan for all floors including basement showing window sizes, foundation and footer details, electrical layout, plumbing layout, ducting layout, lot grading plan and site plan showing utility location (water service, sanitary sewer, storm sewer and electrical service).

2. Minimum line size and pipe types are as follows;

(a). Water service line size shall be 1" CTS (copper tubing size polyethylene) or type K copper tubing. If polyethylene tubing is used a 12 gauge tracing wire shall be buried along side the entire length of the line and into the building. Backflow prevention devices are ~~required and must be mounted in a horizontal position. All hose bibbs shall be equipped~~ with vacuum breakers.

(b). Sanitary sewer shall be minimum 4" PVC SDR 35 gasket joint pipe and a cleanout shall be located at 18" from building wall.

(c). Storm sewer shall be a minimum of 4" field tile with approved adapters. Footer tiles and sump pumps may discharge to the storm sewer. Roof drains and down spouts shall discharge over the ground.

3. Sidewalks are required in most developments in accordance with City specifications. Concrete drive approaches 6" minimum thickness with a minimum 4" stone base are required from the curb to the front property line. Driveway outside of the City right of way shall be a minimum of 4" thick concrete with a minimum of 4" stone base. Sand shall not be permitted for any type of backfill or base.

4. Electrical service shall comply with the City of Napoleon specifications, aluminum conductors shall not be permitted. Underground conductors shall be installed by the City of Napoleon the cost of which shall be born by the user. Installation of electrical service shall not be completed until the City receives full payment for the service installation.

This is not a complete list of requirements, other regulations are applicable including the requirements of the Napoleon City Code of Ordinances and Ohio Building Officials Association (OBOA) code. Inspections are required for all the above.

1. The location of the service must be approved by the City Electric Distribution Superintendent before work is started. All meters shall be located so as to be exposed and accessible from the outside of the structure.

2. It is the responsibility of the builder to furnish and have installed the following:

- (A) Copper entrance cable or single copper conductor in conduit from the weatherhead to the fused
- (B) disconnect in accordance with the following table. The size and capacity of the cable or conductors and conduit shall be maintained uniformly between the weatherhead and the fused disconnect. Neutral shall be identified by white marking or baring of insulation at end.
- (C) Weatherhead
- (D) Cable or conduit clamps spaced a maximum of 18" apart

- (F) Ground wire
- (G) Acorn ground rod clamps
- (H) Ground rod
- (J) Watertight connector
- (K) Conduit bushing
- (L) Watertight fused disconnect
- (M) Pole - round or square, 12' above grade, 3' minimum in ground. (where applicable a taller or shorter pole may be acceptable.)
- (N) Guy wire or brace where required
- (P) Anchor where required
- (Q) Watertight GFCI protected outlet

3. The City will furnish and the builder is to obtain and have installed the meter base. The center of the meter base shall be located 5' above finished grade.

4. The City will furnish and install the meter and necessary service lines to provide 120/240 volt single phase service from the transformer to the weatherhead.

5. Article 210-8 National Electric Code:*

(b) Construction Sites. All 120 Volt single phase 15 and 20 Amp receptacle outlets which are not a part of the permanent wiring of the building or structure shall have ground fault circuit interrupters for personnel protection.

6. If a city electric pole exists on the same side of the road where the permanent service will be located, the temporary service may be attached to it in lieu of setting a pole if approved by the Electric Distribution Superintendent.

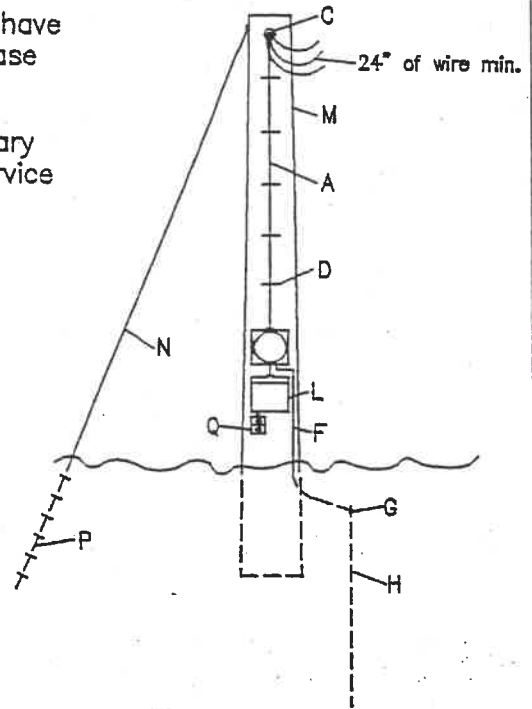
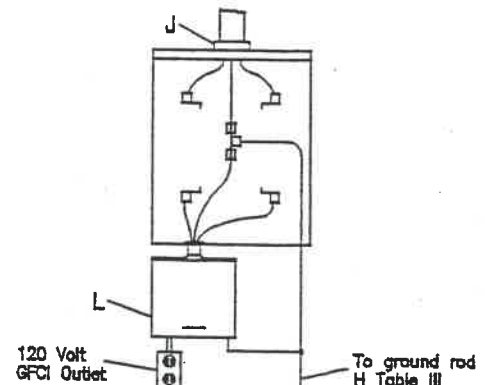


TABLE III

| ITEM | | SERVICE CAPACITY (AMP) | |
|------|--|------------------------|-------|
| | | 60 | 100 |
| A | Copper Cond. S E U Cable | No. 6 | No. 2 |
| F | Bare Copper Ground Wire | No. 6 | No. 6 |
| H | 1 Ground Rods 5/8" x 8' Copperweld or Galvanized | | |

*All material and construction shall be in accordance with the latest edition of the National Electrical Code, NFPA No. 70A.



NAPOLEON POWER & LIGHT - OVERHEAD STANDARDS

DATE
8-18-92

MINIMUM TEMPORARY SERVICE SPECIFICATIONS

T1-1

- The location of the service must be approved by the City Electric Distribution Superintendent before work is started. All meters shall be located so as to be exposed and accessible from the outside of the structure.
- It is the responsibility of the builder to furnish and have installed the following for 200 Amp service:*

- Single conductor copper wire from the meter base to the service panel.
- 2 1/2" Schedule 40 PVC conduit* from meter base to a depth of 24" below grade.

*(2 1/2 rigid galvanized steel or aluminum conduit may be required where exposed to vehicular traffic)

- Conduit clamps spaced a maximum of 3' apart.
- Type LB, LR, or LL fittings for all bends.
- Bare or insulated grounding conductor from the service panel grounding lug to the grounding lug within the meter socket if available. If no lug is available within the meter socket, then the grounding conductor shall be run directly to a driven ground electrode.

(G) Acorn Ground Rod Clamp.

(H) Ground Rods - spaced a minimum of 6' apart and a minimum of 18" from foundation wall.

(I) Locknut

(J) Water tight connector.

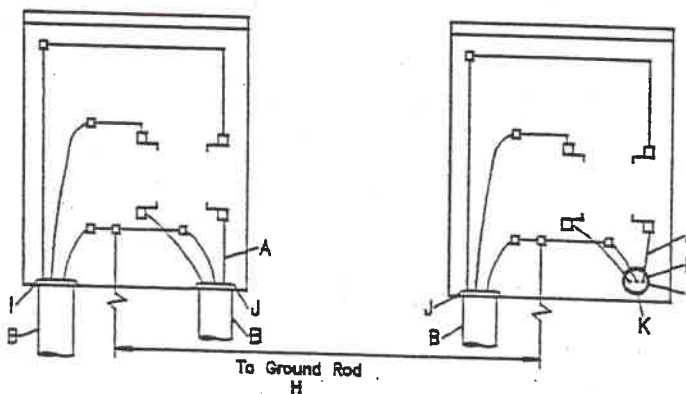
(K) Conduit bushing (only on galvanized and aluminum conduit).

The builder shall also provide if required:

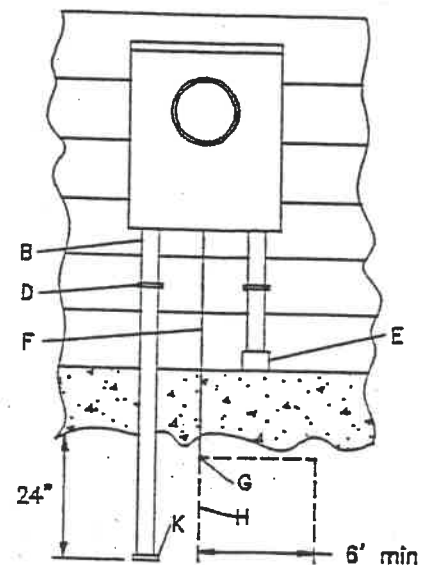
- Enough sand for 6" backfill when rock is present.
- Conduit and bushings or duct under driveways as required.
- Clearing of obstructions from the path of underground route.

- The City will furnish and the builder is to obtain and have installed the meter base. The center of the meter base shall be located 5' above final grade.
- The City Electrical Inspector will inspect and approve the installation before it is put into service.
- The City will furnish and install the meter. The City will provide the trench, backfilling one time, and all service conductors from the transformer to the meter to provide a maximum of 200 amp, 120/240 volt single phase service, at the prices for underground services currently in effect.

| ITEM | SERVICE CAPACITY (AMP) | |
|------|--|------------|
| | | 200 AMP |
| A | Copper Conductors | 2/0 or 3/0 |
| B | Schedule 40 PVC / Rigid Conduit Galv. Steel or Alum. | 2 1/2" |
| F | Bare Copper Ground Wire | No. 4 |
| H | 2 Ground Rods 5/8" x 8' Copper Weld or Galvanized | |



*All material and construction shall be in accordance with the latest edition of the National Electrical Code, NFPA No. 70A.



NAPOLEON POWER & LIGHT - OVERHEAD STANDARDS

DATE
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MINIMUM RESIDENTIAL UNDERGROUND
SERVICE SPECIFICATIONS

T1-2

Excavating/Concrete

Dennis Gerken Construction 419-598-8941

V-138 SR108

Fax Same

Napoleon, Ohio 43545

Stucco/Drywall

419-533-7669

Need Reg.

Keller Plastering, LTD.

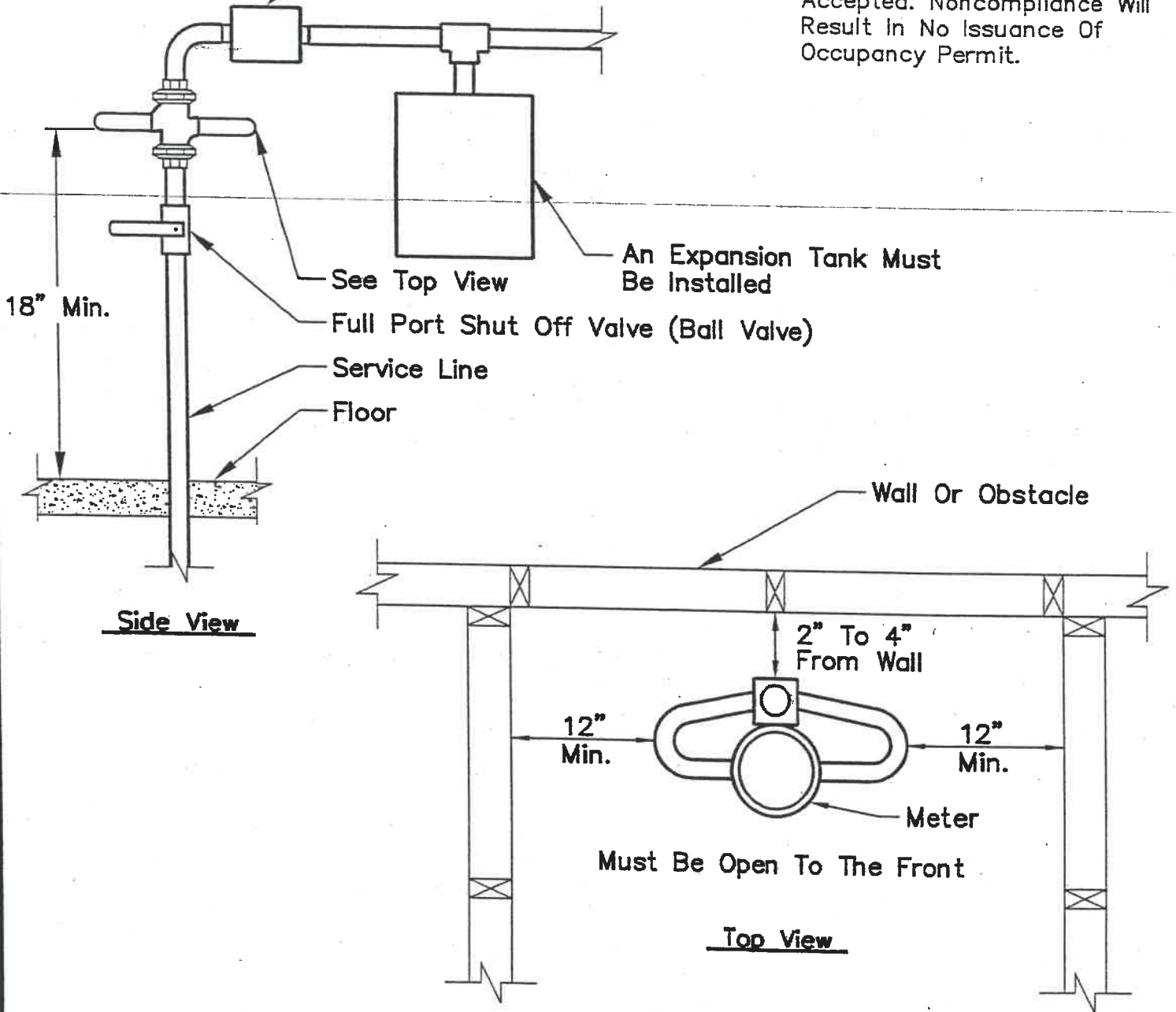
6-028 Co. Rd. T

Liberty Center, Ohio 43532

Inside Residential Detail
5/8", 3/4", Or 1" Meter

Dual Check Valve Assembly
 Backflow Preventer
 (Mounted Horizontal)

Note:
 New Meter Installation In
 Crawl Spaces, Will Not Be
 Accepted. Noncompliance Will
 Result In No Issuance Of
 Occupancy Permit.



CITY OF NAPOLEON
 ENGINEERING DEPARTMENT
 PO BOX 151 / 255 W. RIVERVIEW AVE.
 NAPOLEON, OHIO 43545
 PHONE NO. (419) 592-4010
 FAX NO. (419) 599-8393

City Of Napoleon
 Water Distribution Dept.
 Typ. Service Installation

DATE: 04/07/99
 DRAWN BY: M.B.S.
 APPROVED BY: J.C.M.
 SCALE: NTS

SHEET ___ OF ___

PROPER ATTIC VENTILATING FOR NORTHWEST OHIO

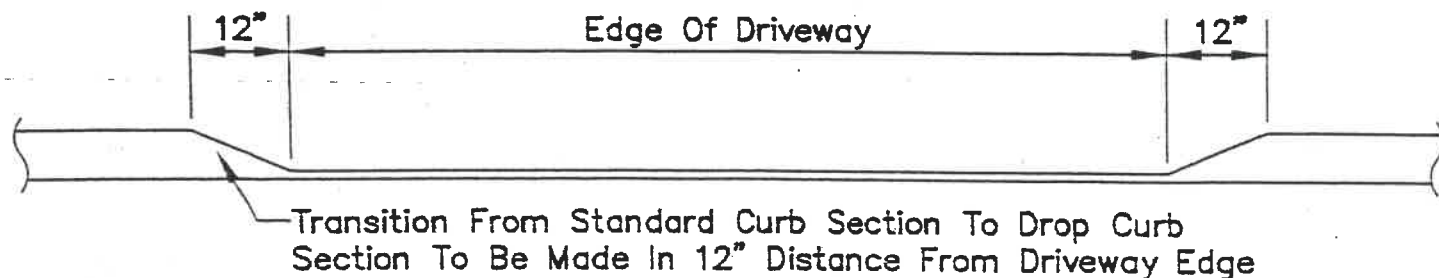
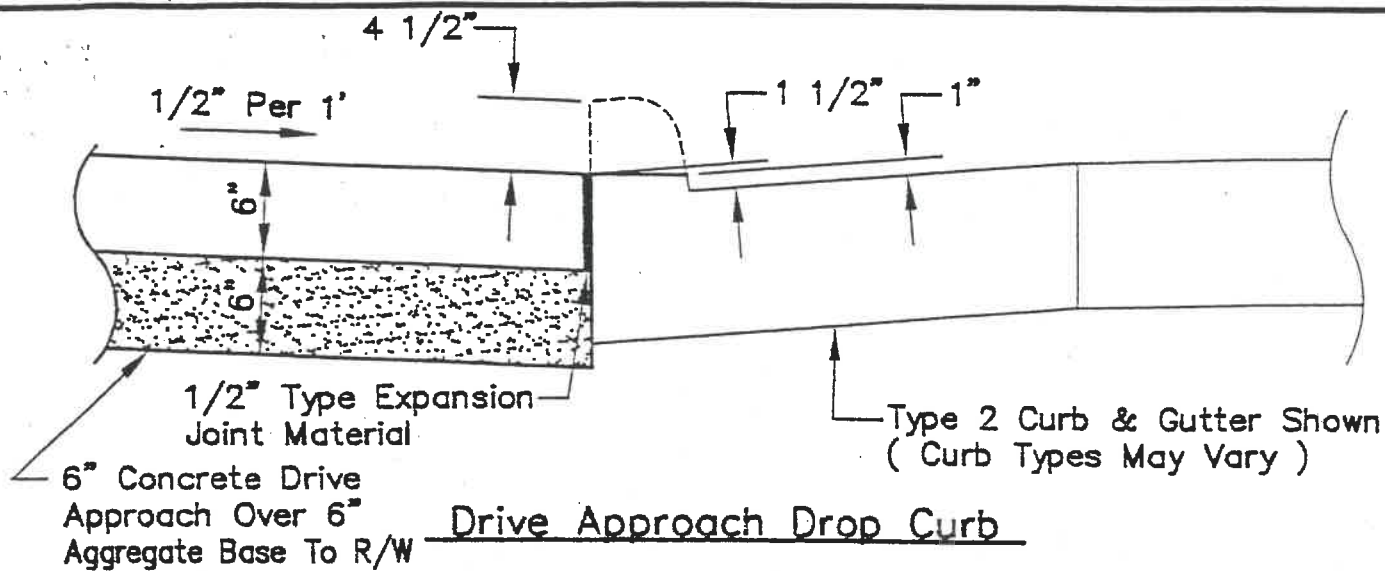
1. The first step is to determine the total gross attic floor area.
 - a. For roof pitch 0 to 6/12 measure the total gross attic floor area.
 - b. For roof pitch over 6/12 measure the total gross attic floor area then add 10%.
2. For each one hundred (100) square feet of gross attic floor area, you will need one (1) square foot of free vent area.
3. The roof peek shall be vented at 40% of the total free area needed, either at the ridge (with proper ridge vent) or on the roof surface no more than three (3) feet down from the ridge.
4. The soffit shall be vented at 60% of the total free area needed using a louvered or perforated material.

VENTING MATERIAL NET FREE AREA FIGURES.

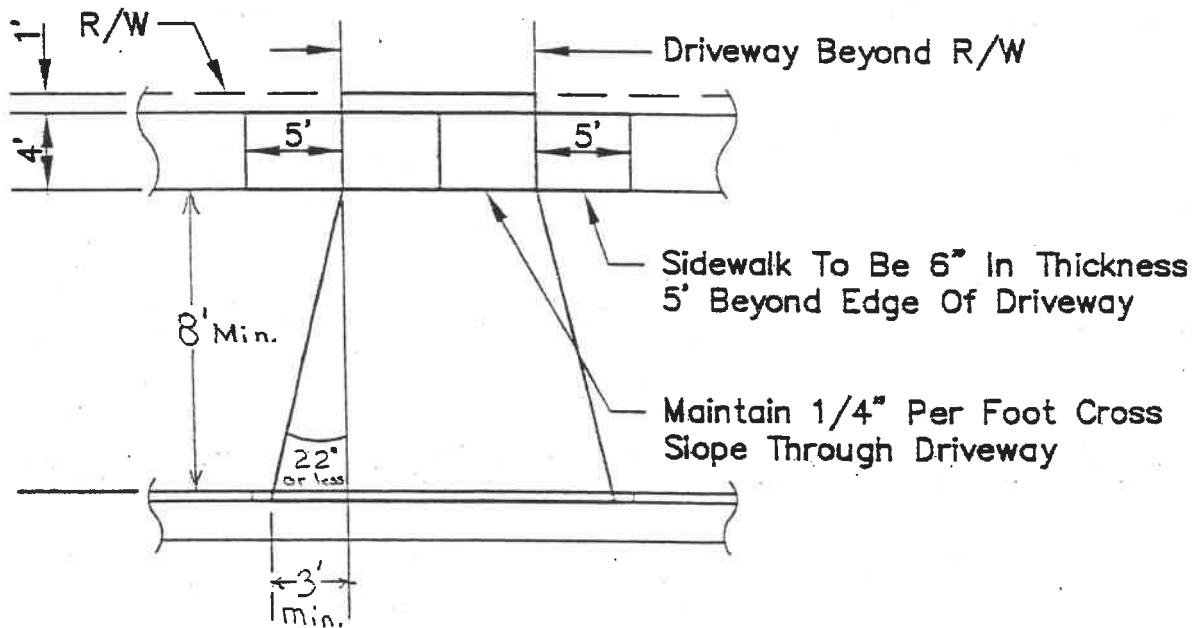
- A. Aluminum or vinyl perforated soffit material: One lineal foot = 10 sq. in. of free air.
- B. Plastic mesh ridge vent material: One lineal foot = 18 sq. in. of free air.*
- C. Narrow high profile aluminum ridge vent material: One lineal foot = 9 sq. in. of free air.*
- D. Wide low profile aluminum or plastic ridge vent material: One lineal foot = 18 sq. in. of free air.*
* (based on a total ridge opening of 2 1/2").

EXAMPLE:

1. Gross attic floor area = 1500 sq. ft.
2. Each one hundred (100) sq. ft. of attic floor area constitutes one (1) sq. ft. of free vent area.
3. 1500 divided by 100 = 15 sq. ft. free vent area.
4. Convert sq. ft. to sq. in. 15 multiplied by 144 (sq. in. in a sq. ft.) = 2160 sq. in.
5. 40% of 2160 sq. in. used at peek (864 sq. in.) / 60% of 2160 sq. in. used at soffit (1296 sq. in.)
6. Using mesh at peek at 18 sq. in. per lineal foot = 48 feet of material needed.
7. Using perforated soffit material at 10 sq. in. per lineal foot = 130 feet of material.



Drop Curb Section



Concrete Drive Approach

* Any Variance From Detail To Be Approved By City Of Napoleon Engineering Department *

| | | |
|---|---|--|
| <p>CITY OF NAPOLEON ENGINEERING DEPARTMENT PO BOX 151 / 255 W. RIVERVIEW AVE. NAPOLEON, OHIO 43545 PHONE NO. (419) 592-4010 FAX NO. (419) 599-8393</p> | <p>Drive Approach And Drop Curb Standard Detail</p> | <p>DATE: 10/27/98 DRAWN BY: M.B.S. APPROVED BY: A.C.H. SCALE: NTS SHEET ___ OF ___</p> |
|---|---|--|

CITY OF NAPOLEON

RESIDENTIAL SIDEWALK SPECIFICATION

I. WORK INCLUDED:

- A. Under this item the Contractor shall improve by construction, reconstruction or repairing as is necessary public sidewalks between limits established by the Engineer.
- B. Sidewalks shall be at least four (4") inches in thickness and in driveway crossings six (6") inches in thickness. When sidewalks abutt with the curb, the width shall be five (5') feet or as wide as the existing sidewalks; in either case, a minimum width of four (4') feet shall be adhered to. Edge of walks adjacent to the property line of the street shall be placed at least one (1') foot from the property line or meet existing sidewalks. The Engineering Department will give line and grade.
- C. Old concrete sidewalk material shall be removed and granular material used for fill if necessary to meet grade.
- D. All work shall conform to the standard specifications published by the Ohio Department of Transportation (O.D.O.T.) and the City, in effect at the date of contract and the requirements under these specifications.
 - 1. Referenced O.D.O.T. specifications as follows:
 - 608. concrete walks
 - 499. concrete
 - 511.12 depositing and curing concrete in cold weather

II. MATERIALS AND FINISH:

- A. A minimum 3" thick #10 crushed limestone base shall be provided and compacted in place.
- B. The concrete mix shall be a minimum of a 6' bag mix with 5 to 6% air entrainment. All surface area shall be broom finished and sealed with an Engineer approved concrete sealer. All joints shall be trowel-cut with a maximum joint spacing of 5 feet. The depth of cut shall be a minimum $\frac{1}{2}$ of the thickness of the slab. The final trowel-cut and edging shall be done after the final brooming. Expansion joints shall be placed at a maximum of 40 feet and at all intersecting walks.

