

The Clarkston News

VOLUME 38 10 CENTS

CLARKSTON, MICHIGAN 48016

THURSDAY, FEBRUARY 15, 1968

4 SECTIONS

NUMBER 25



Loves old sweet song, still enjoyed by the young of heart. Sharing a valentine box were Diana Dunn and Timmy Hilley, first grade students at the Sashabaw School.

Jim's Jottings

By Jim Sherman

When I left you last week we had just finished the floor plan of the one room schools and some of the joys it held.

Npw lets go on to an extra curricular activity that left nothing to the imagination of our fellow students or the teacher. Getting permission to leave the room. Nothing was watched more closely by the teacher than the number of times a student could get permission to escape the classroom and lose himself in the confines of a 3-holer.

The contests, the carving, the fellowship that went on in those outdoor toilets, boys in one corner of the property and girls on the other, always as far back as they could be placed.

But, getting there during school hours wasn't easy. Twice a day was the limit except for "teacher's pets". Some of us had to have reached a certain shade of red or green to get excused once.

Whenever this came it was no secret. Each had to not only raise his hand, but indicate which method of relief they were going to use. It apparently embarrassed no one. Today I suppose psychologists would say such procedure would reflect on the child's personality and give him a traumatic experience that couldn't be overcome by mother's love or discipline.

Back then, as quickly as one person would re-enter the room, another hand would dart into the air with one of two fingers extended. Up to the blackboard hurried the student, with short steps of urgency, to sign his name. Once outside the teacher's view, the pace was much slower.

For the life of me I can't figure out why the teacher wanted to know which trick her worshippers were going to per-

form. It had to be one of two things, though. Either she had this way of keeping track of when to send out another supply of tissue, or she thought there was more urgency in one request than the other.

The kids today miss all fun and challenge involved in getting to go to an outdoor john. Today the teacher is in charge and sets rules for such things. Some have a sort of regimentation where just after or before recess movements have to be made.

Like so many other things, I suppose this activity can be put on a regular basis. At least according to that glorious advertising medium tv there is an irregularity so there must be a regularity, too.

Other teachers do allow students to whisper their requests into their ears. This method caters to the modest and timid souls, defeating early in life the teaching of bravery, courage and honesty (in some cases). Then, today, there is also the row-at-a-time dismissal used by some teachers, a signal (not so forward as the 1 or 2 finger style) and the do-it-during recess approach.

None of today's methods can take the place of our youthful indications of things that are about to happen. And, teachers today have lost the challenge of judging who was faking and who was serious, knowing the risk if their judgement failed.

But, today or yesterday, the teacher, with her keen eye, sense of urgency, and years of experience, is seldom outwitted by her pupil.

Calls citizens to talk taxes

Robert W. Kraud, who calls himself "the committee of one" is asking an hour of area resident's time to discuss taxes. In an ad in the News this week he invites Independence Township property owners to a public information meeting at the Junior High School, 7:30 p.m., February 20.

Kraud lives at 7840 North Holcomb, Clarkston.

Bring 'em back ALIVE!

Called to stand

Standing by to assist at the Al Hanoute Bump Shop Fire in Lake Orion on Saturday was the Independence Township fire department-tanker. The fire, in which three people were injured occurred at 10:14 A.M. Five departments were called to assist the Lake Orion department. Two firemen from the Orion Township Gingellville Station were injured when their truck slid on an icy curve and rolled over on Clarkston Road.

No mail delivery

Post Offices will observe regular holiday schedules on George Washington's birthday, Thursday, February 22.

There will be no regular window or delivery services, but special delivery will be available and mail will be picked up from deposit points for dispatch.

Car-train crash

Gramer L. Mann remains in St. Joseph Hospital in satisfactory condition following a collision of his car and a passenger train on Saturday. The accident occurred on Andersonville Road where the Grand Trunk crosses there. Mann told State Police that he didn't notice the crossing signals operating.

State Police report that the accident occurred around 2 p.m. Mann resides at 1206 Nancywood, in Waterford Township.

Want Ads, 20 words, \$1.00. The Clarkston News,

Swimming pool vote could be April 15

A vote to build a high school swimming pool will be held on April 15 if approval is given from the State Board of Education office and the Municipal Finance Commission.

Members of the Clarkston Area Jaycees presented to the Board of Education on Monday night signed petitions asking for this referendum. The board agreed to petition those two boards to hold the election.

Robert Brumback and Robert Newlin made the presentation to the board and a lengthy question and answer period followed. The pool issue was voted on in June, 1966 but went down to defeat. At that time the expected cost was \$600,000. Estimates now are updated to \$750,000. The Jaycees believe that the pool can be paid for without a millage increase. The school debt would be extended over a longer period of time. The pool would be located east of the present gymnasium. The heating plant has been designed to take care of such a pool and one wall constructed in the gym was planned as a "knockout" wall.

In other action the board

Contests for president and trustee in Village primary Monday

The Primary election for the Village of Clarkston will be held on Monday, February 19. Opposition for village offices made the primary election necessary. Polls will be open from 7 a.m.-7 p.m. in the Village Hall.

Voters should be reminded that they cannot split their ballots in a primary election. Democrat candidates are listed on one side and Republican candidates on the opposite side, and voters must vote only one side of a ballot. The ballot also must be folded so that the perforated corner is exposed.

Two men are seeking the office of President of the Village. They are David Leak, who is currently serving as a trustee. He is opposing Frank Russell.

Trustee seats are being sought by four men. There are three vacancies. Harry Fahrner, Donald Cooper, both incumbents are running. Also seeking the office is E. Nelson Kimball and Jack Hagen. Hagen has filed under the Democrat banner, but the other three are running on the Republican ticket.

Other incumbent office holders running again are Art Pappas, present Village Clerk and his wife Mary Ann Pappas who currently holds the office of Treasurer and Ralph Thayer, Assessor.



DAVID LEAK

Leak, who resides at 6195 Middle Lake Road is filling out his first term as a trustee. He had been appointed to fill the vacancy left by the resignation of A.E. Butters. He is employed by Federal Mogul Corporation and is 35 years old.

Leak made the following statement to the News. "I am committed to pressing for annexation and I am committed to doing as much as can be done to re-vitalize the down town area without undue use of taxpayer's money."



DONALD COOPER

Seeking trustee posts are incumbents, Cooper and Fahrner. Cooper has served for several years and is a teacher at Clarkston Junior High School. He is 32 and lives at 29 E. Washington Street.

He declined to make a statement of his views to the News.



FRANK RUSSELL

Opposing him for the office of President is Frank Russell. Born and raised in Clarkston, Russell graduated from Clarkston High School in 1940, served in the Navy during World War II and attended Eastern Michigan University. He is now the owner of Frank T. Russell, Inc., a stocking distributor for Richards-Wilcox material handling division of Hupp Corporation. He is also Secretary and Chief Engineer of Wright, Russell & Jones, Inc., of Flint, manufacturers of special material handling equipment and emission control systems for the automotive industry. He is also a member of the official board of the First Methodist Church of Clarkston.

Russell said, "My reason for running is to seek a fresh approach to our urgent needs. I favor the suggested study committee on annexation because we would have an unhealthy condition if the majority of people were residents, not by choice, but by action of the council. Immediate action must be taken towards development of more convenient and varied shops in the village."

without hurting the residential part. The old buildings have a charm that cannot be 'reproduced'; let's make the most of what we have. Main Street values must be such that THE STATE COULD NEVER AFFORD TO WIDEN ROUTE 15. This is the key for preserving everything that is Clarkston. (4) Preserve our Lakes. And appreciate the importance of that period when they are quiet and peaceful. Let us have a sharing of the lakes between the water skiers and the fishermen. The sailors and canoeists (this has successfully been done elsewhere.) For example, every sunset could be reserved for the fishermen and their friends. Sunday mornings usually are quiet except for an occasional noisy group that should be restrained in respect to the feelings of most of the people who have chosen to make their home in Clarkston.

To summarize, that which makes Clarkston such a wonderful town to live in today, can make it even more wonderful in the future, if we work together for it."



E. NELSON KIMBALL

E. Nelson Kimball, 55, a resident of 72 N. Main Street has resided in Clarkston for the past 3 years moving here from Bloomfield Hills. He is a Chrysler employee. He has never sought office before in Clarkston, but was an active participant in Town Meetings in his native New England.

Asked for his views Kimball had this to say:

"I believe that most of the residents of Clarkston came here to get away from city life, or the 'ticky tacky' of suburbia, or the commercialism of a Birmingham. I believe that we must and CAN preserve what Clarkston has... if we are intelligent enough, we can improve it instead of having to sit by and watch its destruction, as the wave of expansion moves in this direction.

In order to protect our investments and to make sure that we never will want to sell out and move on out further sometime in the future, I recommend: (1) Enlarging the Village to make it able to remain independent (as Franklin Village and Lathrop Village and Bloomfield Hills Village have been able to do) (2) To do that best, we should make the Village so attractive that the people on the outside want to be included in any boundary enlargement. (3) We must preserve the commercial part of Main Street



HARRY FAHRNER

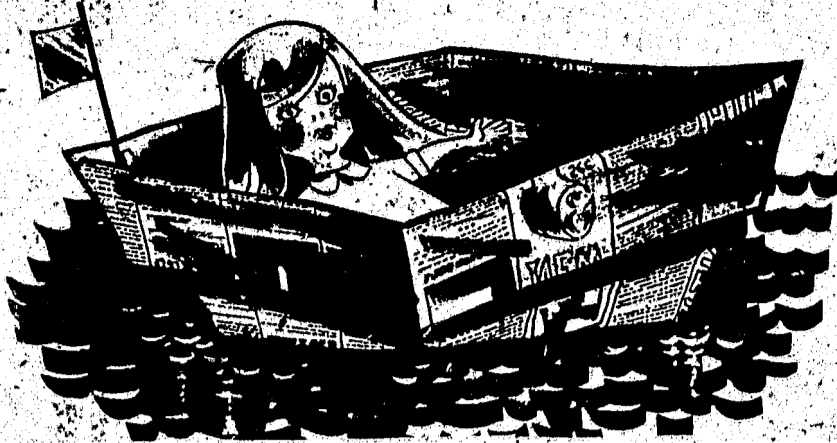
Fahrner is also filling out the term as an appointed trustee. He took the place vacated by Harold Goyette when he resigned. Fahrner, 38, is a resident of 10 Robertson Court and is employed at G.M. Truck & Coach.



JACK HAGEN

Hagen, who is running under the Democrat banner lives at 42 N. Holcomb. An employee of the Infra Corporation for 23 years, he has lived in Clarkston for over 30 years. He is a graduate of Clarkston High School and is 38 years old.

Hagen had this to say regarding his candidacy, "The village people should have more voice as to what goes on in the village. I like the town and would like to have it left as it is."



Ripples from the Pool

By Faith Poole

Report of the first robin to be seen in the area came Friday morning while the wind blew and the snow flurried outside.

Our thanks to the congenial crew next door at Rudy's who come to our aid in all sorts of situations. Friday morning's snow storm found us about ready to attack the business end of a snow shell. But before we got around to it, one of their kind boys had completely cleaned our walks. Another instance occurred when two of our girls attempted a major window washing operation. That time Rudy took over, even furnishing some of the equipment to accomplish the job.

The Merle Bennetts, now enroute with the Wally Byam Caravan in Mexico thought troubles had really be-set them before their departure from Texas. First, it was the transmission on their car, then it was the matter of a \$100 insurance policy before entering Mexico. According to son, Paul, about the only one they could see would benefit from the insurance was the Mexican government.

Want a good Coho Salmon recipe? Here it is, as prepared by the U.S. Department of the Interior, Bureau of Commercial Fisheries.

BAKED COHO SALMON WITH SOUR CREAM STUFFING
3 or 4 pounds dressed coho salmon or other dressed fish, fresh or frozen
1 1/2 teaspoons salt
Sour cream stuffing

2 tablespoons melted fat or oil. Thaw frozen fish. Clean, wash, and dry fish. Sprinkle inside with salt. Place fish on a well-greased bake and serve platter. Stuff fish loosely. Brush fish with fat. Bake in a moderate oven, 350 degrees F., for 45 to 60 minutes or until fish flakes easily when tested with a fork. Baste occasionally with fat. Serves 6.

SOUR CREAM STUFFING
3/4 cup chopped celery
1/2 cup chopped onion
1/4 cup melted fat or oil
1 quart toasted bread cubes*
1/2 cup sour cream
1/4 cup diced peeled lemon
2 tablespoons grated lemon rind
1 teaspoon salt
1 teaspoon paprika
Cook celery and onion in fat until tender. Combine all ingredients and mix thoroughly. Makes approximately 1 quart stuffing.

*Commercial herb seasoned croutons may be substituted for bread cubes.

Entertain wives and township officials

Independence Township Firemen held their annual "Ladies Night" party last Thursday. Approximately 60 enjoyed the evening at the French Cellar of Howe's Lanes. Members of the township board and their wives were also invited to attend this annual affair.



Thanks to the efforts of Mrs. Davis, 1st grade teacher at the Pine Knob School, all of the students in the school can share in the excitement of the two famous birthdays this month. Four of her students looking over the Washington-Lincoln foyer display are Sharon Fuller, Glen Miller, Dee Hill, and Brad Randall.



By Rustie Leaf

A message, akin to spiritual, must come to everyone who steps on a cold kitchen floor, in bare feet. It just has to wake him up, catch him a cold, or prove he is honest (here's where we stop calling him a he and admit it's a she, or me) ... Brave (there's a word for you, the last time I meant to use brave it CAME OUT BRASS) and true (True to B is blue, which I soon became) When those ten tootsies hit that deck I just knew I was married to a man that was going to get a lot thinner, before he got a lot fatter, if what he ate at home for breakfast had anything to do with it. My duty henceforth had been to squeak at the top of my 5:30 voice "Get up and get that *#!* clock, please (he doesn't tolerate brass women). I also knew my immediate problem was to fix it or find a way out. (At least the night before my big mouth had decided to fix it), having engaged in a revealing discussion that day at the office on women's lack of this I was a walking hazard, and with myself my own obstacle

course, but within fifteen minutes I proudly handed one equally sleepy husband a full "up north" breakfast. Heading for the still warm bed I laid there waiting for my reward... sleep. But what settled in instead? Beautiful tasty aromas. They just came right in that room and called to me... and that's a call I always hear. Oh, well, I always did say, if you can't start your day off with your diet, start it with a good "up north" breakfast.

P.S. Please don't tell my husband he's losing weight.

"Meet the Workshop" scheduled-Feb. 21

NOARC is sponsoring a "Meet the Workshop" evening, February 21, 1968 in lieu of its monthly meeting. All parents, relatives, foster parents and guardians of retarded persons as well as other persons or groups sympathetic to the purposes of the association for retarded children are invited to see an actual workshop.

Dale Smith, Executive Director for New Horizons, will be host. He shall point out the physical plant needs and the program needs of the sheltered workshop. The time set is 8:00 p.m. at the workshop 36 E. 14 Mile Road, Madison Heights, Michigan.

The Board of Directors of NOARC feel that there is a definite need for a workshop in the Pontiac, Rochester, and Waterford area. Upon exam-

ing the actual plant we can better project our needs to our respective communities and perhaps secure the help of service organizations to launch a program for our older retardates in the northern half of

obituaries

Mrs. Arnold Kind

Funeral services will be conducted at 2 p.m. on Thursday from the Sharpe-Goyette Funeral home for Mrs. Arnold Kind. She died on February 12 following a three week illness. She was 48.

Mrs. Kind was employed as a driver at G.M.C. Truck & Coach.

Burial will take place at Ottawa Park Cemetery.

She is survived by her husband, Arnold; two sons, Dennis of Saginaw and Ronald of Milford; three brothers, two in Minnesota and Melius Pederson of Pontiac; also two sisters both in Minnesota.

the county. Please call Earl Staman 682-3732 or Hugh Graham 651-8238 if you plan to attend. We would appreciate your call for seating and refreshment planning.

New square dance starting

Shirts 'n' Skirts, Square Dance Club, of Clarkston Township Hall, invite all Western square dancers to come out and join us for some real square dancing fun, Saturday, February 17. The George Washington party will be in full swing, with Bob Longe doing the calling, at

8:30 p.m. A short workshop of new material will be conducted at 8:00 and later in the evening. Bob will teach the round dance of the month, "Hello Faithless". Plans are now underway to start a new square dance basic class. If you are not acquainted with Western dancing, why not come out and join these fun-loving people? For information call 682-5059 or OR 3-5650.

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Phone: 625-3370
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"If You Don't Know Carpeting Know Your Carpet Dealer"

CALL
George Tuson
CARPET MANAGER
AT
Elliott's Furniture
5390 Dixie Highway 334-0981 623-0825

VOTERS TAX PAYERS

A public information meeting will be held at the Clarkston Junior High School on February 20th at 7:30 p.m.

If you own property in Independence Township, if you were a little surprised at your last tax bill—you should not be asking what your government is doing for you but what it is doing to you.

The future of your community and its effect on your pocketbook is being decided now. Give me an hour of your time.

THE COMMITTEE OF ONE
Robert W. Kraud

Make An Appointment Today

WITH ANY MEMBER OF OUR COMPETENT STAFF, WHO CAN INTERPRET THE FLATTERING HAIR FASHIONS OF 1968 FOR YOU

Betty LeCornu
Hair Fashions

5916 SOUTH MAIN 625-5677

YOUR MICHIGAN BANKARD CARD WELCOMED
Excellent selection of

SOLID BRASS
Fireplace sets

BELLOWS..THREE SIZES GRATES
HEARTH BROOMS FIRE LIGHTERS
ASSORTED EAGLE ORNAMENTS
MANY STYLES OF WOOD CARRIERS & HOLDERS

AL'S WATERFORD HARDWARE
—YOUR FIREPLACE CENTER—
3-6 Daily 9-3 Sundays 623-0521
5880 Dixie Highway

Produce SPECIALS

#1 Delicious Apples
Different varieties 6 lbs. 99¢
1.75 HALF BUSHEL (unclass.)

#1 Michigan (Winter keepers) Potatoes
50 lbs. 1.49

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5748 Clarkston Road..... 625-2015

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First, call Edison. We'll give you the names of electric heat contractors near you. Each has been Edison-approved as capable and reliable.

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Then, after your new electric heat system is installed, Edison and your contractor will make any adjustments necessary to the system if operating cost exceeds the original estimate during the first three years of use. At the end of this time, if operating cost still exceeds the estimate, and you aren't satisfied, Edison will remove the system and refund your original price.

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New and rebuilt auto parts
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MISC. FOR SALE

Reduce safe, simple and fast with GoBese tablets. Only 98¢ Pine Knob Pharmacy. 23t8p

FIREWOOD FOR SALE. Will do tree trimming and removal. Phone 625-4747. 4t26c

PEP UP with new zippies "pep pill" non habit forming. Only \$1.98. Pine Knob Pharmacy. 23t6p

SOLID MAHOOGANY secretary and chair, excellent condition. Call after 4 p.m. 852-4851. 25t1p

SINGER DIAL-A-MATIC zig zag sewing machine. Embroiders, appliques, buttonholes, etc.—late model, school trade in. Terms of \$6 per month or \$59 cash. New machine guarantee. FE 4-0905. 25t1c

ANTIQUE CLOCKS, churns, misc. clothing, furniture and dishes. Saturday and Sunday at Trading Center, 10081 M-15, Clarkston. 25t1c

SAND, ROAD GRAVEL, fill dirt and stone. Larry Powell Trucking. Phone 625-2175. 25tfc

FULLER BRUSH
Mary Walter 391-1612
25t1p

SPOTS before your eyes—on your new carpet—remove them with Blue Lustre. Rent electric shampooer \$1. Bob's Hardware, 27 South Main, Clarkston. 25t1c

AUTOMATIC ZIG ZAG sewing machine. Repossessed 1966 "Fashion Dial" model in walnut cabinet. Take over payments of \$5.50 per month for 8 months or \$44 cash balance. Still under guarantee. FE 4-0905. 25t1c

PIANO SALE AT GRINNELL'S
3 floors to choose from Uprights, \$49 and up Reconditioned, \$219 and up Factory Surplus, New Pianos, \$499 and up
Pontiac downtown store only 27 South Saginaw
Phone 333-7968
P.S. Ask for Mrs. Campbell and you might win a new Knobe Piano. 25t1p

PETS
TWO BLACK PUPS—7 weeks old. Mother Belgian Shepherd, \$5 each. Phone 625-2397. 25t1c

Wanted
FURNITURE—Will buy or sell your furniture. Tyler's Auction, 7605 Highland Road, Waterford. Phone 673-9534. Open daily. 24tfc

HOME IN THE CLARKSTON AREA, have home in Pontiac to trade, \$15,000 range. Phone 625-1889. 24t2c

SIX YEAR CRIB AND HIGH chair, good condition. Call 625-3786 after 5 p.m. 25t2c

WOMAN DESIRES TYPING in home. Experience including statistical. Call 625-1785. 25t1c

PLANNING A WEDDING, RECEPTION OR ANNIVERSARY PARTY? We invite you to inspect our full line of invitations, napkins, coasters, social stationery and all items to make your affair a perfect one. Come to the Clarkston News Office or call 625-3370 for information.

HELP WANTED

If you have sold milk, books, pencils, insurance, encyclopedias etc., I have a special opportunity for you. Call FE 5-6115 or apply at 2397 Elizabeth Lake Road. 22t4c

ACTIVE, SEMI-RETIRED, RETIRED, male or female. Appreciate the advantage of being self sufficient. Enter the satisfying real estate field through our educational program and on the job training. Your earnings can be governed by your activity. Represent us in your own area. Our commission arrangement is one of the finest. You will receive all of the attention you desire. For interview call Stilwell or Fitch, Stilwell Realtors Rochester, Michigan. Phone 651-6200. 17tfc

Female Help Wanted
BEAUTY OPERATOR. Full time. Phone 625-5677. 23t5c

WANTED—WOMAN TO DO occasional day baby sitting. References required. Phone 625-4185. 24t2c

WOMEN TO TRANSPLANT small plants at Boucard Bros. Greenhouse at 8580 Dixie Highway, Clarkston. 25t1c

UNFURNISHED Apartments, 1 & 2 bedrooms, fully carpeted, stove and refrigerator, all utilities except electricity. No Pets—No Children. Phone 625-2001 or 625-5325. 21tfc

3 ROOM CABIN, NEWLY decorated, furnished, utilities included, single or couple, \$40 per week. Deposit required. Phone 625-2920. 25t2c

APARTMENT FOR RENT furnished. Beautiful ground floor apartment for man or woman. Phone 625-2111. 25t1c

SNOW PLOWING, residential and commercial, reasonable rates. Phone 625-5022. 24t4c

PHOTOS TINTED in beautiful oil color. Baby pictures, portraits, or your favorite pet. Reasonable prices. Call 625-5358. 20t8c

CUSTOM DRAPERIES, alterations and general sewing. Phone 625-5244. 24t4c

WRITE THIS NUMBER down now, for snow plowing services this winter. Reasonable rates. Call 623-0112. 19t9c

A-1 HAULING AND ODD jobs. Call Carl 332-5169. 22t4c

FILL DIRT DELIVERED Clarkston area. 75¢ a yard in 100 yard lots. Phone 625-2331. 6tfc

REFRIGERATION AND AIR Conditioning Insulation and Repair Service. Commercial and domestic. All makes washers, dryers and dishwashers. 24 hour service on refrigeration. Rean's Refrigeration, Phone 363-3606 nights or 363-7128 days. 48tfc

SEWING & ALTERATIONS Phone 625-4858. 25t1c
Get your "For Sale" signs at the CLARKSTON NEWS office. Large size, 15¢ each. 5 S. Main.
GET YOUR MAILING ENVELOPES at the Clarkston News office. All sizes available.

NOTICES

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TYLER'S AUCTION
7605 Highland Road
673-9534

TYLER BACK IN BUSINESS sporting goods, large selection of new and used tools, new and used furniture, hundreds of other items, 1,000 items—all new merchandise. Friday night, February 9 at 7:30 p.m. 24tfc

GOSSAMER SHEER LETTERS with beautiful "blue onion design". 22 decorated sheer sheets, 22 plain sheer sheets, 22 Litho lined envelopes for \$1.25. Clarkston News, 5 S. Main.

REAL ESTATE
AUBURN ROAD AREA
5 room asbestos ranch, full dining room, garage plus basement. \$0 down. Owners agent, 674-1698. 21tfc

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For homes any place in Oakland County, money in 24 hours.

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WE BUY WE TRADE
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4713 Dixie Hwy.
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ELIZABETH LAKE ESTATES
4 bedroom layout with hardwood floors, wet plaster, full basement, carpeted throughout, gas heat. Assume owners mortgage, save closing costs. Owners agent, 674-1649. 24tfc

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101 N. Holcomb — Clarkston
or
FE 2-4522
57 W. Beverly — Pontiac

TOWNSHIP OF INDEPENDENCE
COUNTY OF OAKLAND, STATE OF MICHIGAN
ORDINANCE #43
AMENDMENT TO INDEPENDENCE TOWNSHIP ZONING ORDINANCE #2
ADOPTED: February 6, 1968
EFFECTIVE: March 15, 1968

TITLE: AN ORDINANCE, to amend the Zoning District Map of Ordinance #2, as amended, of the Township of Independence.

THE BOARD OF INDEPENDENCE TOWNSHIP OF THE COUNTY OF OAKLAND, STATE OF MICHIGAN, ORDAINS:
Section 1. The zoning district map of Ordinance #2, Independence Township Zoning Ordinance, as amended is hereby amended as follows:

"Part of the E 1/2 of E 1/2 of Sec. 27, Independence Twp. described as beginning at a point on the South line of Sec. 27, located West 150 ft. from the SE Section corner; Th W 1170 Ft. + to the E 1/8 line Th North 2850 ft. along E 1/8 line Th North 2850 ft. along E 1/8 line; Th E 340 ft., Th N 70° East 670 ft. + Th E 360 ft. to East line Sec. 27; The South 2800 ft. along E. Sec. line; Th W 150 ft; Th South 275 ft. to point of beginning. Except Detroit Edison R.O.W. Containing 84 1/2 acres.

Also the S 33 ft. of the W 1/2 of NE 1/4 of Sec. 27 from Suburban Farms District to Residence-1 District

Passed this 6th day of February, 1968 A.D. by the Independence Township Board.

Yeas: Hursfall, Altman, Johnson, Bauer
Nays: None
Howard Altman,
Independence Township Clerk

For Beattie Ford trucks

SEE
Jim Smith
Who is specializing in heavy Ford truck sales (He'll handle your Ford car needs, too)



SELLING OUT OF A STOCK OF 30 TRUCKS including... Pickups - Vans - Tractors - Dumps - Mixers - Broncos - Tandems - Diesels

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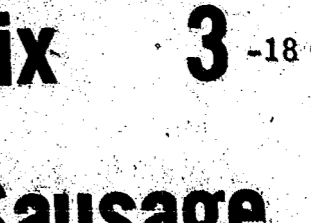
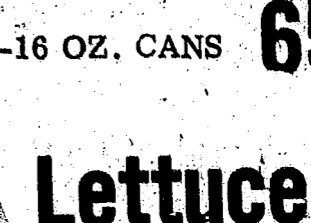


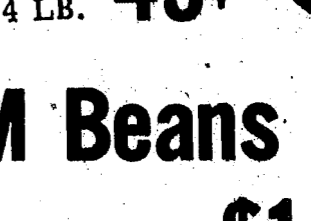


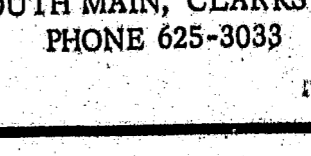
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PHONE 625-3033

In double overtime Clarkston takes Northville, 66-60

When Bill Wertman and some of his friends watched a tournament game at the junior high he commented, "It was a barn burner." This Northville-Clarkston tussle was all of that and then some. A cliff-hanger, seat squirmer, finger nail biter, heart thumper, etc.

This was a big one for Clarkston as there is still an outside chance for league honors. The Wolves are coming on strong and it is a tribute to Coach Bud McGrath and the big Blue in overcoming many obstacles.

The Wolves lost two good prospects at the start of the year in Gary Mize and Dawson Bell. Gary is leading the Lake Orion five to league honors and to a high rating in the Class "A" polls. Dawson Bell in his first game scored 19 pts. and had 15 rebounds. Bell transferred to a private school and is just now eligible for play.

Losing the likes of these two boys could cause many teams to throw in the towel and work towards next year - not McGrath and the big Blue. They have provided the fans with some fine play. McGrath has had to alter his game plan with his personnel and with good timing of his bench he has been able to pull out victories.

I thought he certainly used his bench wisely in the Northville game, giving his boys short breaks to enable them to go all

out on the floor. A couple of his standouts were ill all week, but with wise substituting, their play wasn't hampered.

Mark Erickson hit his game high with 24 pts. and getting 3 buckets in the pressure packed 2nd overtime. His 2nd bucket in overtime play on a missed free throw, was certainly a picture type play.

Gerry Ostrum hit for double

scored the Wolves 20-16 in the 2nd quarter, both of the boys had 7 pts. Pohlman certainly played a fine game. He scored 20 points and rebounded with authority. Mark Erickson scored half of Clarkston's 16 pts. in this quarter.

Erickson, Ostrum and Hood had 4 points each in the third quarter. Lewis and Maslowski added key buckets.

time session.

Northville kept on missing from the floor, as 7 shots went astray, a total of 10 for the overtime sessions.

By winning this big game, the Wolves now have a 4 game winning streak. They would like to have a 6 game slate after Friday. This past Tuesday they play Holly and on Friday Milford will be in the Wolves Den. Friday night the school will honor all the Mom's of the players and cheerleaders!

J.V.'s lose

After winning seven games in a row the Clarkston J.V.'s lost to Northville 63-51. Coach Hanson wanted this game because a

SPORTS

Mel Vaara

figures again by scoring 14. Hard working Eric Hood followed with 11, Chuck Granger 9, Kurt Maslowski 6, Jeff Keyser and surprising Larry Lewis had 2 each.

The game opened with a bang as Northville had a fast 6 pt. lead. The lead was quickly squelched by Ostrum; Gary worked himself free for 3 easy buckets. From then on it was go-go-Blue!

The way Northville started out it was surprising to see that Clarkston had a 1 pt. lead after the 1st quarter. Northville had control of the rebounds as they had 14 more, but on some occasions they missed the easy attempt.

With the shooting of Andrews and Pohlman, Northville out-

Clarkston outscored Northville 16-13 in the quarter and once again the game was tied 46-46.

A key factor in this quarter was the 4th foul picked up by Northville's sparkling guard, Joe Andrews.

Andrews had his 5th foul before the 4th quarter was even one minute gone. Without his guidance the offensive play of Northville was hampered for the remainder of the game.

Chuck Granger provided 6 of the 12 points in the 4th quarter. Chuck had two one-on-one free throw situations and he made 4 in a row. Maslowski missed his first bonus situation, but late in the game with pressure from all sides, he canned both attempts. The 4th quarter ended with Ken Boeger of Northville missing a short jumper.

In the 1st overtime Clarkston took only one shot and Northville missed three. Northville controlled most of the overtime session by slowing down the contest to a walk.

A total of 10 points were scored in the 2nd overtime period. Clarkston had 8 of them for their 66-62 victory.

Mark Erickson had three buckets and Eric Hood added two free throws after the buzzer sounded. It was a tantalizing period for Clarkston as Erickson, Hood and Maslowski missed free throws on bonus situations. Northville never had the same opportunity from the stripe, because they didn't have a bonus situation until 10 seconds remained in the 2nd over-



Bob Palladino gets a shot away with just a flick of the wrist.

Clarkston J.C.'s win

The Clarkston J.C.'s are playing on the Ortonville gym for the District 18 basketball title. Two years ago they won and last year Ortonville won - do you see the picture? The two power houses are in different brackets, and most likely will meet on Sunday for the Championship. Ortonville won 110 to 31 and Clarkston won 91-62. On Saturday night Ortonville will play Pontiac and Clarkston will play either Avondale or Waterford.

I have the pleasure of being a bad guy with a striped shirt (a Lew Wint fan) and can let you know you are in for plenty of action when these two chapters play each other. Its all in fun though as there is plenty of fellowship!

Clarkston started out slow in their victory over Rochester, but after they got a few of their problems straightened out, they bombed them in the 2nd half. Most of the boys are former Clarkston athletes and they have some imports too. Jerry Powell led the team in scoring with 29 points. He was followed by their recent acquisition Dick Lippert with 26 points. Dick played a fine game as he cleared the boards on both ends of the gym.

Bob Brumback had 13 points,

as this former Flint Northern standout played his usual steady game. When Bob was a Senior at Flint Northern he led his team to the State Class A finals in East Lansing.

Jerry Hennig the coach of the club had 9, Hal Weston and Dick Chartier had 6 each!

Clarkston's share


Clarkston will receive \$1,848 as its share of the fourth quarter Motor Vehicle Highway Fund collections which the State Highway Commission is now distributing. Oakland County

received \$1,472,270.

The fund is made up of all state gasoline and diesel fuel taxes, and license plate fees. After deduction of collection costs and the Waterways' Commission's share, the Highway Commission gets 47 percent, counties 35 percent, and the state's 523 cities and villages 18 percent.

The amount paid to counties includes \$752,076 in snow removal funds distributed on the basis of recorded snowfall in each county last year.

There was an increase of \$1,720,204 compared to the same period in 1966.



Spectator Poll

Clarkston vs. Northville

Player of the Week: Mark Erickson

Most Improved: Kurt Maslowski

Best Defense: Larry Lewis

Key Play: Eric Hood's block


GO GO Wolves

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a knowable God

Perhaps one of the most persistent beliefs about God is that there is a mystery about Him. The Bible, however, records many searchers who found God to be very knowable, very close. Job said: "acquaint now thyself with him... thereby good shall come unto thee."

You are invited to consider some of the steps to take in getting to know God better by attending a lecture by Georgina Tennant, C.S.B., of The Christian Science Board of Lectureship. Her lecture, entitled "Meeting Today's Challenge with Christian Science," will explore how acquainting one's self with God meets all his human needs and brings peace and satisfaction into his life. Admission is free and all are welcome.

Christian Science lecture

Sunday, February 18th, at 3 p.m.
First Church of Christ, Scientist
1119 North Main Street, Rochester

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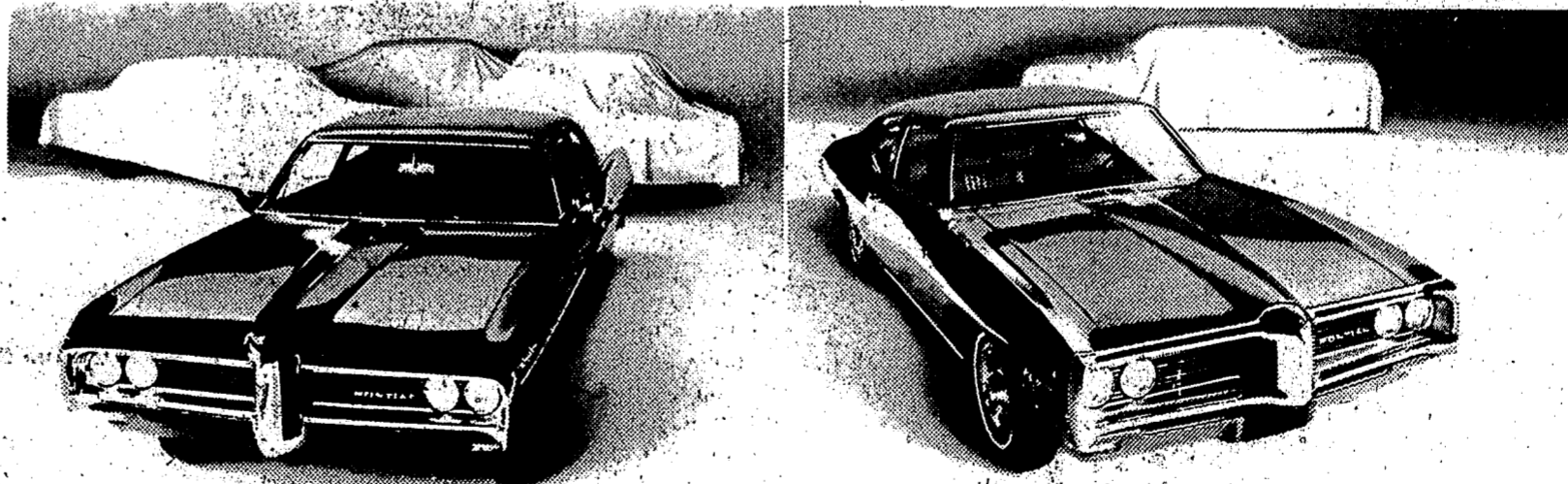
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LEGAL NOTICES

DONALD MCGAFFEY, Atty.
16001 Dixie Highway
Holly, Michigan 48442
No. 95,117

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Ardeliah Blain, also known as Ardeliah Blain, and Delia Blain, Deceased.

It is Ordered that on March 4, 1968, at 9 A.M., in the Probate Courtroom Pontiac, Michigan, a hearing be held on the petition of Vica E. Lumby for the appointment of an administrator of said estate and to determine who are or were at the time of death the heirs at law of said deceased.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: January 29, 1968.

DONALD E. ADAMS
Judge of Probate.
Donald McGaffey, Atty.
16001 Dixie Highway
Holly, Michigan 48442
Feb. 1, 8, & 15

MILTON F. COONEY, Attorney
810 Pontiac State Bank Building
Pontiac, Michigan
No. 95,133

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Joseph M. Seiler, Deceased.

It is Ordered that on March 5, 1968, at nine A.M., in the Probate Courtroom Pontiac, Michigan a hearing be held on the petition of Ora May Seiler for the admission to probate of an instrument purporting to be the Last Will and Testament of said deceased, and for the granting of administration of said estate to Ora May Seiler the executrix named therein or to some other suitable person, and to determine who are or were at the time of death the heirs at law of said deceased.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: January 30, 1968

DONALD E. ADAMS
Judge of Probate.
Milton F. Cooney, Attorney
810 Pontiac State Bank Building
Pontiac, Michigan
Feb. 8, 15 & 22

REVEREND RICHARD WURMBRAND
Lutheran minister and Romanian refugee from 14 years in Communist Concentration camps. Rev. WurmbRAND will speak Sun. Feb. 18, 2 p.m. at Knights of Columbus Hall, (Southfield at 12 Mile) \$1.00 admission at the door. 24tlp



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WILLIAM H. STAMP, Atty.
5818 M-15
Clarkston, Michigan
No. 95, 128

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Tracie Price also known as Tracie E. Price, Deceased.

It is Ordered that on March 12, 1968, at 9 A.M., in the Probate Courtroom Pontiac, Michigan a hearing be held on the petition of Neal E. Parker for the admission to probate of an instrument purporting to be the Last Will and Testament of said deceased, and for the granting of administration of said estate to Robert L. Jones the executor named therein or to some other suitable person, and to determine who are or were at the time of death heirs at law of said deceased.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: February 6, 1968

DONALD E. ADAMS
Judge of Probate
William H. Stamp, Atty.
5818 M-15
Clarkston, Michigan
Feb. 15, 22 & 29

RONALD A. WALTER, Atty.
43 W. Washington
Clarkston, Michigan
No. 95,214

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Edward Chapperton, Deceased.

It is Ordered that on April 8, 1968, at 9 A.M., in the Probate Courtroom Pontiac, Michigan a hearing be held on the petition of Helen Mehlberg for the admission to probate of an instrument purporting to be the Last Will and Testament of said deceased, and for the granting of administration of said estate to the petitioner, the executrix named therein or to some other suitable person, and to determine who are or were at the time of death the heirs at law of said deceased.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: February 8, 1968

DONALD E. ADAMS
Judge of Probate
Ronald A. Walter, Atty.
43 W. Washington
Clarkston, Michigan
Feb. 15, 22, & 29

MILTON F. COONEY, Attorney
810 Pontiac State Bank Bldg.
Pontiac, Michigan 48058
No. 81,002

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Irene Ainsley, Mentally Incompetent.

It is Ordered that on March 5, 1968, at 9 A.M., in the Probate Courtroom Pontiac, Michigan a hearing be held on the petition of Harold Goyette, guardian of said estate, praying for allowance of his final account; allowance of fees; assignment of residue; and the discharge of said guardian.

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16 South Main 625-4420

Publication and service shall be made as provided by Statute and Court Rule.

Dated: February 1, 1968.
DONALD E. ADAMS
Judge of Probate.
Milton F. Cooney, Attorney
810 Pontiac State Bank Bldg.
Pontiac, Michigan 48058
Feb. 8, 15 & 22

MILTON F. COONEY, Attorney
810 Pontiac State Bank Building
Pontiac, Michigan
No. 95,132

STATE OF MICHIGAN THE PROBATE COURT FOR THE COUNTY OF OAKLAND
Estate of Irene M. Ainsley Deceased.

It is Ordered that on March 5, 1968, at nine A.M., in the Probate Courtroom, Pontiac, Michigan a hearing be held on the petition of Mary A. Newton for the admission to probate of an instrument purporting to be the Last Will and Testament of said deceased, and for the granting of administration of said estate to Mary A. Newton the executrix named therein or to some other suitable person, and to determine who are or were at the time of death the heirs at law of said deceased.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: January 30, 1968

DONALD E. ADAMS
Judge of Probate
Milton F. Cooney, Attorney
810 Pontiac State Bank Building
Pontiac, Michigan
Feb. 8, 15 & 22

REIFLER AND McLAY, Attys.
3901 Highland Road (M-59)
Pontiac, Michigan

STATE OF MICHIGAN IN THE CIRCUIT COURT FOR THE COUNTY OF OAKLAND
No. 68 41809

Howard Mudge, Jr., Plaintiff
vs.
Virginia D. Mudge, Defendant
STATE OF MICHIGAN

COUNTY OF OAKLAND
WALLACE D. McLAY, being first duly sworn, deposes and says that he is attorney for plaintiff in the above entitled cause having knowledge of the facts, and that defendant's whereabouts and residence are not known, and that a summons has been issued against the defendant and returned showing service cannot be made in this County. It is further stated that this is a civil action in which personal jurisdiction over the defendant herein named is not required and that an order of publication is necessary in this case.

Publication and service shall be made as provided by Statute and Court Rule.
Dated: February 8, 1968

DONALD E. ADAMS
Judge of Probate
Ronald A. Walter, Atty.
43 W. Washington
Clarkston, Michigan
Feb. 15, 22, & 29

Wallace D. McLAY
Subscribed and sworn to before me this 19 day of January, 1968.
Reifler and McLay, Attys.
3901 Highland Road (M-59)
Pontiac, Michigan
Feb. 8, 15, 22 & 29

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THE CLARKSTON NEWS

State Jaycee president here for Membership Meeting Feb. 21



PATRICK DUGGAN

Localites attend Jaycee winter meet

The Jaycee's Winter State Meeting was held February 2nd and 3rd in Saginaw. This meeting was well attended with over 1500 Jaycees from all over the state. Those attending from Clarkston were Mr. and Mrs. Richard Wilton, Mr. and Mrs. Lewis Wint, Mr. Gordon Spelbring, Mr. Robert Newlin, Mr. Lavern Erickson, Mr. and Mrs. Art Ripley, Mr. and Mrs. Donald Hamaker, Mr. and Mrs. Jerry Powell, Mr. and Mrs. Terry Kelley, Mr. and Mrs. Robert Tilley, and Mr. and Mrs. Michael Thayer.

Gordon Spelbring, Clarkston's Records & Recognition Chairman, did another fine job, and Clarkston received three quarter awards on their project areas. The Saturday forums were very informative, and Gordon Spelbring and Don Hamaker worked on the Records and Recognition judging.

All the State Chapter Presidents met with the State President Patrick Duggan for luncheon and an exchange of ideas session. The Jaycettes attended the awards ceremony which awarded the Four Outstanding Young Women in the State of Michigan. The Saturday evening banquet was very good and following was the awarding of the Five Out-

The Clarkston Area Jaycees are having a "Membership Night" February 21st, 7:30 p.m. at the Independence Township Hall on Main Street in Clarkston.

Clarkston Rotary to view slide film

A slide film presentation on upgrading driver education is the program at the Clarkston Rotary Club's February 19th 6:30 p.m. meeting at Howe's Lanes. The program will be conducted by Mike LePere, executive vice-president of the Inter-Industry Highway Safety Foundation of Michigan.

The film is part of a public support program—a joint effort by Inter-Industry and the Traffic Improvement Association of Oakland County—to provide quality driver education. It points out specific courses of action for improving driver education course offerings, as recommended in a comprehensive study by 200 leading citizens and traffic officials in Oakland County.

Receives God and Country award

On Boy Scout Sunday, February 11, Rev. Frank Cozadd of the First Methodist Church, presented Scout Randy J. Miller of Troop 126, with his God and Country award. This is the highest religious award attainable in scouting, and in the Methodist Church requires one year of study and service to the church.

Randy is a Life Scout, a member of Scouting's Order of the Arrow and is Senior Patrol Leader of Troop 126. He is the son of Mr. and Mrs. Norman T. Miller of Transparent Drive.

standing Young Men in Michigan and a speech by Mayor Jerome Cavanaugh of Detroit.

National Director Lew Wint awarded chapters for their extensions of new chapters in the State of Michigan.

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From our large used car selections, such as these . . .

1965 Olds 442. Four speeds with radio, heater and white wall tires. One owner, new car trade. \$1495

1961 Cadillac 4-door hardtop. Power steering and brakes, automatic, radio, heater and white walls. Very good second car. \$495

1966 VW convertible with radio, heater, and white walls. Red with black top. \$1295

1965 International Suburban Station Wagon. V-8, automatic, power steering, power brakes, radio and heater. One owner, new car trade. \$1095

1964 Olds Dynamic 88 4-door sedan. Power steering, power brakes, automatic, radio, heater and white side walls. White with black vinyl interior. \$1095

1963 English Ford Capri 2-door hardtop. 4-speed, radio, heater and white wall tires. \$395



TOM RADEMACHER CHEVY-OLDS INC.
6751 DIXIE HIGHWAY 625-5071

Over 200 invitations have been sent out in the community. The names were taken from voter registration roles in the township. Chairman for the meeting is Lavern Erickson, one of Clarkston's new members.

The Clarkston Area Jaycees which compose 52 dynamic young men 21-to 35 from all walks of life, will be happy to meet with other young men and women their age to discuss community problems.

The basic concept of the Jaycees is Leadership Training through Community Development.

Meet at the Old Mill Tavern
After skiing on your favorite slope
For Your Dancing Pleasures and Dining Pleasures

Wednesday thru Saturday
"IRENE & IRV"
FRIDAYS
Feb. 16 & Feb. 23
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PRIMARY ELECTION

To the Qualified Electors:
NOTICE IS HEREBY GIVEN, That a Primary Election will be held in the

Village of Clarkston
STATE OF MICHIGAN
AT

VILLAGE HALL, 25 S. Main Street
Within said Village on

February 19, 1968

FOR THE PURPOSE OF PLACING IN NOMINATION BY ALL POLITICAL PARTIES PARTICIPATING THEREIN, CANDIDATES FOR THE FOLLOWING OFFICES, VIZ:

President, Village Council **Clerk**
Treasurer **Assessor**

3 Trustees, 2 year terms

Notice Relative to Opening and Closing of the Polls

ELECTION LAW, ACT 116, P.A. 1954

SECTION 720. On the day of any election the polls shall be opened at 7 o'clock in the forenoon, and shall be continuously open until 8 o'clock in the afternoon and no longer. Every qualified elector present and in line at the polls at the hour prescribed for the closing thereof shall be allowed to vote.

The said election will be open at 7 o'clock and will remain open until 8 o'clock p.m. of said day of election.
Artemus M. Pappas, Village Clerk

The Clarkston News editorial page

"If It Fitz . . ."

Lady Bird should have invited Guru



By Jim Fitzgerald

The Cost of Crime

Crime holds a pistol at the head of every American in a deadly, one-sided game of Russian roulette. Every time crime pulls the trigger, we have one chance in 70 of being its victim. Odds of 70 to 1 in horse racing may seem attractive, but not when human lives and property are on the line. Even the most reckless gambler wouldn't back such odds against a lineup of murder, rape, assault, burglary, larceny, robbery and auto theft.

Yet, we and our families are pitted daily against that lineup and at those odds. They are getting worse daily. The 70 to 1 figure is based on the time-table of crime shown in the Federal Bureau of Investigation statistics.

The breakdown is a murder every hour, a forcible rape every 23 minutes, a robbery every four-and-a-half minutes, an auto theft every minute, a larceny of \$50 or more every 11 seconds, and a burglary every 27 seconds. At that rate, time is rapidly running out for a lot of people.

Why does crime make such formidable advances each year? Are the police to blame?

The fault probably does not lie with the police—but with ourselves. We're to blame, largely for letting crime flourish and spread.

The record is that as individuals and families making up the community, we don't sufficiently cooperate among ourselves and with law enforcement agencies in fighting crime. This, of course, would require sacrifices.

We would have to come to the aid of citizens under criminal attack, report to the police all crime and suspicion of crime, and willingly testify in criminal cases and serve on juries.

As taxpayers, we would have to provide our police with adequate pay, fair working conditions and modern equipment, and above all, give them moral support.

Parents would have to begin acting like parents should, teaching their children obedience and respect for the law, providing them with sound moral values, and setting good examples.

We can either help collar and conquer crime, or crime—including the syndicate gangster and hoodlum elements—will conquer and overwhelm us. The choice may not be easy, but it's growing clearer every day.
(Vandalia, Ill., Leader)

Even if she didn't look a lot sexier in a sheet, I'd like Eartha Kitt much better than Guru Maharishi Mahesh.

Mahesh is that little Indian joker who thinks meditating will make Mia Farrow happier than Frank Sinatra did when he stole her away from Peyton Place.

Miss Kitt was best known for singing in a panther purr until she snarled at a White House luncheon and made Lady Bird cry.

Guru Maharishi Mahesh became a meditator at an early age. It all began when someone asked him how to spell his name. He had to think so long that people thought he was such a deep thinker he hadn't heard the question. Guru liked this reaction so much he has been thinking deep ever since and letting someone else answer the tough questions. The moral is: if Guru Maharishi's parents had named him Billy Joe, Mia Farrow might still be living the Bible according to Sammy Davis Jr.

I have studied Guru's "transcendental meditation" from which Mia hopes "to emerge a new person." What you do, see, is sit down and think about nothing. Make your mind a blank. And into that blank mind, contentment will creep. A grand new feeling will transcend everything else and you will be happy.

I do this every night after dinner in a black leather chair with matching footstool. Only my wife doesn't call it transcendental meditation. She just says to the kids, "Your dad is going to sleep again."

So much for Guru Maharishi Mahesh. Now about The Good Eartha . . .

Miss Kitt was one of 50 women invited to lunch with Lady Bird and discuss crime and juvenile delinquency. I suspect Eartha was included to give the affair color—black. These days, a Washington politician doesn't give a 6-handed taffy pull without inviting at least one Negro—even if he must be bused in from South Africa.

Anyway, Miss Kitt listened to these sophisticated dames prattle the platitudes and twaddle usually heard when women join together to save the world. These gals were probably even windier than usual because they knew they didn't have to save energy for the mind-boggling task of splitting the luncheon bill 50 ways. It was probably agreed that the way to keep our youth out of jail is to have them tear down beer signs and plant tulips along the highways.

And Miss Kitt finally had all she could take on a full stomach. She stood up and told things the way they are. She said young men are disturbed today because they know some Pentagon brass hat has already penciled them in as tomorrow's statistics. They do not like the idea of killing and being killed in a lousy Vietnam war that makes no sense. And a few of these boys can't quite muster sufficient respect for the law of a land that condemns draft-card burners while dropping napalm on defenseless villages.

I do not have to agree with Miss Kitt to understand her—and to admire her. She was invited to the White House to give her opinion and, by God, she gave it, even if it did bring gasps into lace hankies and tears into Lady Bird's eyes.

Mia Farrow may become a better person by sleep sitting with Guru Maharishi Mahesh. That's her bag and I root for her happiness. But I think she'd get happier quicker if she quit paddling around with kooks and stuck her car in where the water runs swift and deep.

Guru may help a few people, especially himself because transcendental meditation doesn't transcend commercialism. Guru gets a fat fee. But it is the Eartha Kitts who do the most good in a world sadly in need of home improvements.

Any clown can sit down and think about nothing. And too many of these clowns are running the circus. We need more Eartha Kitts to stand up and yap at them.



Our readers write

Dear Editor:

Are you disgusted with soaring taxes and irresponsible spending by every level of government?

A group of very concerned citizens are getting together to combat the waste of public money that is taking an ever larger bite out of your income. Our first aim will be to put some common sense into local budgets; townships, cities, and Oakland County.

People who have first hand experience and know what's going on will be there to show us how to launch a concerted attack on this dangerous trend in taxation—often without representation.

Meet with us at the Bemis-Olson Amvet Hall, 570 Oakland, Pontiac, on February 21st at 7:30 p.m.

We dare you to get involved.
Mrs. Janie C. Collins

LETTER TO THE EDITOR:

Would it be possible to have more about the Clarkston High School wrestling team in our paper? I think our boys might have a little more spirit if people recognized the team.

It's a fairly new sport with Clarkston. All other visiting schools have people rooting in the stands. I understand at other schools you have to pay to see it, but Clarkston doesn't.

They wrestle on Tuesdays and Thursdays. They practice every day and some Saturdays too. For what they put into it and starve to maintain weights etc. I think parents could at least go to some of the matches and give them a little encouragement.

An Interested Parent

Dear Editor:

The above named group was organized by residents of the

Holly area, chiefly from Rose and Holly Townships, at a meeting in December.

I can perhaps give you a better idea of the makeup and caliber of the organization by telling you that it has the active support of the Rose and Holly Township Supervisors, the Holly postmaster, our township attorney, and the Holly Area Board of Education. It also promises to attract the support of a number of civic groups and farm organizations.

At a second meeting, held at Holly January 24, residents, including some township officials, of Addison, Avon, Pontiac, Farmington, Orion, White Lake and Highland Townships voted to join in support of the program.

The plan agreed on is to expand the organization on a county-wide basis, with each interested township forming a local unit and electing a chairman. The chairmen of the township units will constitute WHAR's executive board. Every effort will be made to recruit members among rural residents, to enable the organization to speak for a maximum number of concerned persons.

The enclosed statement of purposes and policy was adopted unanimously at the meeting on January 24. It explains itself.

We hope you will think the rural road problem in your area of sufficiently widespread public concern to make this material newsworthy. We will be most grateful for any publicity, support and help you can give us.

The purposes, objectives and program of WHAR shall be as follows:

#. Reasons for organizing

For at least ten years the rural road system has been increasingly neglected stepchild of the Oakland County Road Commission. The amount and quality of maintenance, apart from winter snowplowing, has declined steadily and almost no construction of gravel roads for replacement purposes has been carried out.

In addition to serious inconvenience, the results have been dangerous traffic hazards in many cases, damage to vehicles that cannot be estimated, impaired services such as fire and police protection and ambulance service to rural residents, excessive maintenance costs to school bus systems, hardship to RFD mail carriers, and loss of revenue to rural businesses.

The number of rural residents is growing rapidly, resulting in accelerated use of these roads. In addition, parks, recreation areas, resorts and

rural businesses have further increased the traffic load in many areas. The expanding rural population and the deteriorating roads are on a collision course. A better rural road system has been road program is imperative.

2. Short-range goals
a. To upgrade immediately the maintenance of these roads, by more efficient and regular schedules of maintenance work and by the prompt repair of trouble spots.

b. To work for a construction or replacement program, adequately financed, aimed at preventing the total breakdown of the gravel road system in the next few years.

c. To obtain better planning of and better supervision over maintenance work. Much of the limited work now being done is at a needlessly poor level. This has to be corrected.

d. To insist that the classification of rural roads and their selection for major improvement be divorced from all political considerations, and based instead on reliable and realistic traffic counts, such counts to take into account week-end traffic and peak traffic periods during the summer months, when resort and recreational use results in traffic far above normal levels.

3. Long-range goals

a. To initiate and support legislation aimed at returning to the people a needed measure of democratic control over the County Road Commission, which at present is for all practical purposes answerable to no one. We believe such control could best be obtained by making the offices of commissioner elective rather than appointive.

Pending that change, we strongly advocate improvement of the appointive system, to the end that commissioners be named for a fixed term and on the basis of experience and ability, rather than for the purpose of giving political life jobs to former Supervisors. We further insist that any reappointment of such commissioners shall be based on a satisfactory record of performance of duties.

b. We believe the attitude of the Road Commission toward rural roads has been both negligent and negative. Commission policy seems to be based on the theory that all paved highways, both primary and secondary, deserved to be maintained at high levels, but that residents living on rural roads have to put up with whatever they get. We protest such a philosophy, and shall endeavor to change it. Rural residents are

entitled to the same rights as those of cities or villages, and local traffic has as much right to safe passage as traffic on major highways. It is the function of government to serve people, not to ignore their legitimate needs.

c. To bring the plight of local roads effectively to the attention of the Governor, the Legislators, and the County Board of Supervisors, and to seek all proper redress.

Sincerely,
Ben East, Chairman
WHAR

Wranglers meet

The February 10th meeting of the Clarkston Wranglers was opened by the president Pam Gillis. New members at this meeting were Gwen AmMaddoc and Kathy, Joe, and Ted Quisenberry.

Members of the club were reminded to measure their horses for matching breast collars and blankets.

The leader, Janet Trarop, announced that the 1968 4-H Fair will be August 6 through 10. The annual 4-H Horse Leaders Horse Show will be May 12th, Mother's Day.

Five members of the club will be attending horse judging classes at the 4-H fairgrounds every Thursday night until the end of March. At that time, five 4-H'ers from Oakland county will be chosen to go to Michigan State University for state-wide competition at the Block and Bridle Horse Show.

The Ro-Hi-4-H Club of Holly has invited the Wranglers, along with other clubs, to a roller skating party in Grand Blanc on Wednesday, February 21st. Some members of the Wranglers will attend.

It was suggested that the Wranglers tour Red Bob Farm. This will be discussed at the next meeting which will be March 2, at 11:00.

Lynn Race, Secretary

On Dean's list

Two girls from Clarkston, both students at Western Michigan University were included on the Dean's list for the fall semester. They are Gale Ann Getzan of 5425 Heath Avenue and Cynthia Humphrey of 5705 Chickadee.

To be included in the select group a student must have compiled a 3.5 grade average (4.0 is all A's) while enrolled in at least 14 hours of class work.

PEEKIN' into the PAST

25 YEARS AGO IN THE CLARKSTON NEWS
Feb. 19, 1943

Dinner guests at the home of Miss Ada Scrace last Sunday evening were the Reverend and Mrs. H.A. Huey of Ann Arbor and Mr. and Mrs. Durand Ogden.

Nominations for Village Officers were: H.W. Huttenlocher, President; Percy Craven, Clerk; May Baldwin, Treasurer; Lloyd C. McGee, Lloyd Sibley and Edward O'Roark, Trustees; and Lloyd Sibley, Assessor.

On February 24th at 2 o'clock in the afternoon the Royal Neighbor Sewing Circle will meet at the home of Mrs. Ben Comstock.

On Wednesday night the Clarkston Junior Literary Club met at the home of Mrs. Gordon Parker. The club will meet in two weeks at the home of Mrs. Gwendie Purkiss in Drayton Plains.



"OX"
Clem
Cleveland

modeled, I volunteered to do the job. "We're going to save money on this project," I promised her.

After having shopped with most of the large contracting outfits, I was embarrassed to go to them for help. I went to an Oxford lumber dealer and told him what I had in mind—really what Cal had in mind. In spirit of fun, Milt came down to our house and took a few notes. A few days later, he gave us a drawing showing complete details of what our kitchen would look like when it was finished.

Milt was given the go-ahead. He ordered the materials and we went to work. While everything was running smoothly, Cal stopped at an Oxford floor covering and asked for assistance. She selected a kitchen floor and thought it best to have a professional install it—the guy who sold it to her, Keith Curtis. The installation was perfect.

Now, with just a few minor touches, the kitchen is finished. It looks exactly as Milt drew it—remarkable. We didn't have to pound one tradesman from northeast Oakland county. Just the guy from the south caused us the problems. He's a car-

penter we thought we needed for technical assistance. He turned out to be a pain-in-the-neck.

The same sort of experience, dealing with local people, happened with my car. Up until a couple of weeks ago, I was driving one of those unsafe foreign cars. Granted, I had accumulated many miles. But, following the manufacturer's recommendations, I had the car regularly serviced by the authorized factory representative.

Following the recommended service program, I spent a bundle. Finally, the car became so unreliable that I couldn't depend on it to start. I was afraid to take it back to the factory service guy because he probably would have charged me more than the car was worth to fix it up. . . . and then I wouldn't have been sure that he would have done anything to it anyway.

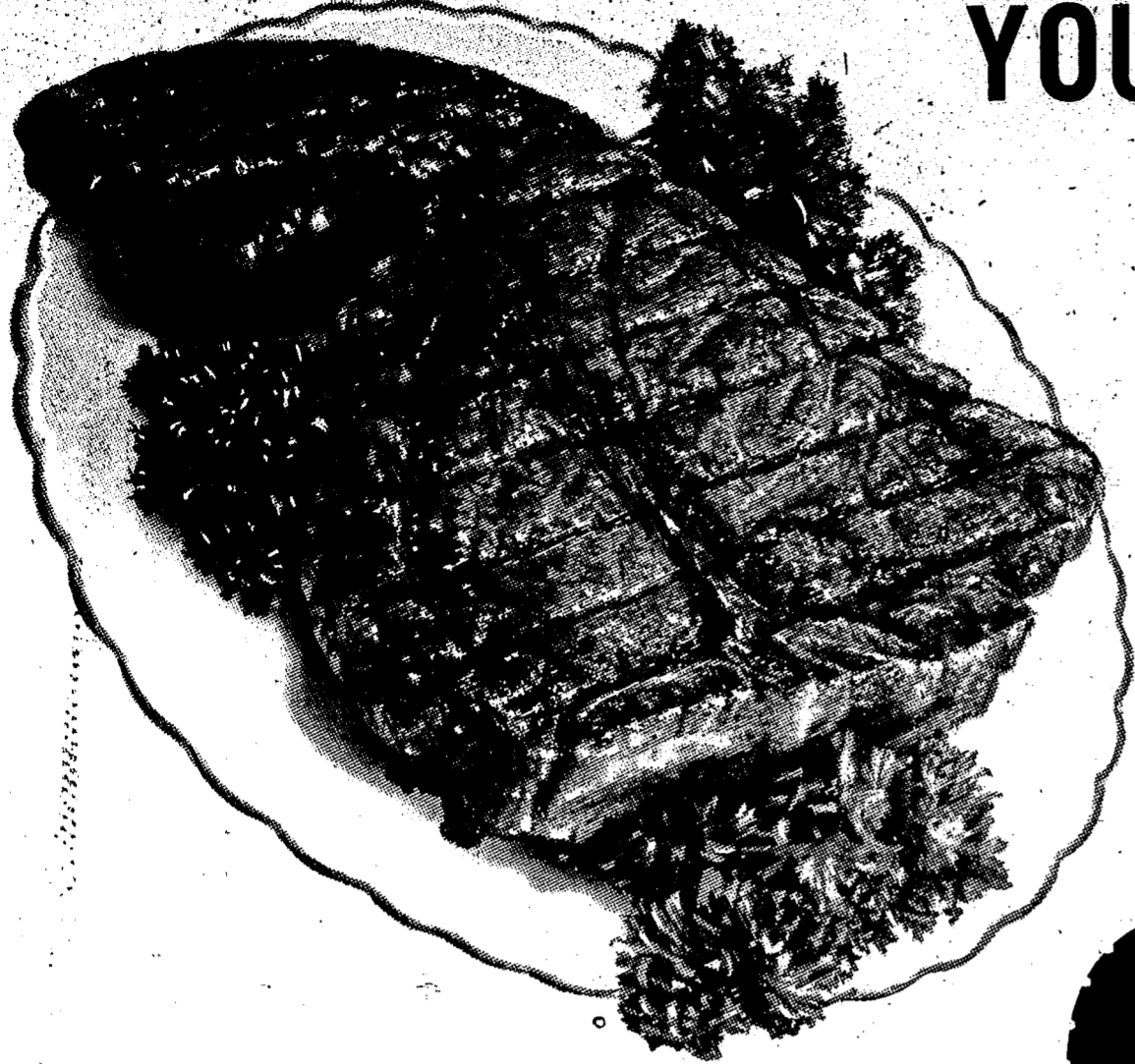
So, Cal called one of the dealers in the northeast Oakland County—he said he had a better idea, and we are back to driving one of those gas hogs. But, it starts. The biggest surprise I had was when I took

the jumbo sized hunk of scrap iron in for service. With the unsafe foreign car fellow, I started paying for service right off. The local guy charged me nothing and he did make the repairs.

I assume that I paid the local guy for the service when I bought the car. There was considerable difference in costs between the two cars.

I also assume that where the little unsafe foreign car returned savings in gas mileage, the Detroit machine will return it to me in service. Either way, over the same period of time it doesn't cost me any more to drive a big car.

Whether it be with the guy who sells cars, a carpenter or the guy who sells merchandise, when you're dealing with the local, small businessman you have to get service. That's the one thing that he has to sell over his big-dealer competitor. I'm sure that the big-dealer's heart is in the right place, he wants to give the service, but he's got too much business, or something.



YOU NEVER GET BETTER FOR LESS

STEAK

US NO. 1 MICHIGAN
Potatoes
 20 Lbs. **58¢**
 FRESH ICEBERG HEAD
 SIZE 24
LETTUCE
 12¢ a head

**ROUND,
 SIRLOIN
 or T-BONE**

88¢
 LB.

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 CHOICE BEEF SALE**

ONLY AT D & W FOODLAND
**GREEN LAKE SEMI-BONELESS
 WHOLE OR HALF
 HAM** Lb. **59¢**

KOEGELS
WHOL-E-SMOKES 10 oz. pkg. **59¢**

GREEN LAKE
CHUNK BOLOGNA Lb. **38¢**

KRAFT PHILADELPHIA
CREAM CHEESE 8 oz. **29¢**
 BORDENS
CHOCOLATE MILK Qt. **22¢**
 BORDENS
HALF & HALF Qt. **39¢**

4 FISHERMEN 1 Lb.
PERCH FILLETS **39¢**
 BORDENS
BUTTERMILK Qt. **22¢**

MUSSELMAN'S---1 Lb. 9 oz.

APPLESAUCE 4 for \$1

KEYKO --- QUARTERS --- 4c OFF --- 1 Lb.

MARGARINE 5 for \$1

CAMPBELL---1 Lb.
PORK & BEANS 11¢
 FRANCO - AMERICAN
SPAGHETTI 15½ oz. 11¢

HERSHEY---1 Pt.
CHOCOLATE SYRUP 19¢
 SPARTAN - MAKES 8 QTS.
DRY MILK 1 Lb. 9½ oz. 59¢

CRISCO OIL 1 Qt. 6 oz. 59¢
 MICHIGAN
BEEF SUGAR 5 Lb. 49¢



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 electric machines for
 carpets or floors
 and **SAVE!**
 You can clean a 12 x 12 rug area for less than \$3.00 with Glamorene Rug Shampoo. Contains 'Nulite' for instant brightening action!
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FRESHLIKE CUT GREEN
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BEANS 5 for \$1 **CORN** 5 for \$1 **FRESHLIKE PEAS** 5 for \$1

ALL-VARIETIES ---9 oz. to 11 oz.

BANQUET DINNERS 3 for \$1

TOMATO JUICE LIBBY 4 for \$1
 1 Qt. 14 oz.

AJAX DETERGENT 3 Lb. 1 oz. **59¢**

HILLS BROS. **INSTANT COFFEE** 10 oz. 89¢
COFFEE MATE COFFEE CREAMER 11 oz. 59¢



KRAFT MIRACLE WHIP
 SALAD DRESSING
44¢ Qt.

SPARTAN
WHITE BREAD
 1½ Lb. 5 for \$1

HILLS BROS. REGULAR HILLS BROS. DRIP HILLS BROS. ELECTRIC PERK
COFFEE Lb. **66¢**

STORE HOURS: MON. THRU SAT. 9 A.M. TIL 9 P.M. SUNDAY 9 TIL 6



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 THE STORE WITH TOTAL SAVINGS,
 IT'S THE TOTAL THAT COUNTS

1605 ORTONVILLE RD. M15 ORTONVILLE

WE'RE * LAST
AND VERY PROUD OF IT
 We conducted an extensive survey to find our place in the grocery business. We found we were not No. 1, No. 2 or No. 3. The BEST we can claim is **LAST**

- * **LAST** To have complete Carry Out Service
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- * **LAST** To sell USDA Choice BEEF only.

ALL PRICES & SERVICES 7 DAYS A WEEK.

The Clarkston News

SECTION THREE
THE CLARKSTON (Mich.) NEWS Thurs., Feb. 15, 1968 9

TOWNSHIP OF INDEPENDENCE ORDINANCE NO. 52 SUBDIVISION CONTROL ORDINANCE

AN ORDINANCE GOVERNING THE SUBDIVISION OF LAND; PROVIDING FOR THE PROCEDURE FOR THE PREPARATION AND FILING OF PLATS, TENTATIVE APPROVAL AND FINAL APPROVAL OF PRELIMINARY PLATS AND PRE-PRELIMINARY PLATS, SUBMISSION OF FINAL PLATS, APPROVAL OF THE PLAT BY THE TOWNSHIP BOARD; PROVIDING FOR PLATTING REGULATIONS AND REQUIREMENTS IN REGARD TO CONFORMITY TO THE TOWNSHIP COMPREHENSIVE DEVELOPMENT PLAN AND ZONING ORDINANCE AS TO STREETS, ALLEYS, EASEMENTS, BLOCKS AND LOTS AND ESTABLISHING FEES.
THE TOWNSHIP OF INDEPENDENCE, OAKLAND COUNTY, MICHIGAN ORDAINS:

Article I. GENERAL

Section 101. **Purpose:** This Ordinance has been enacted for the purpose of protecting the public health, safety and general welfare of the residents of the Township and of insuring the orderly growth and harmonious development of the Township by requiring:

1. Proper arrangement of streets in relation to existing or planned streets or to the Comprehensive Development Plan.
2. Adequate and convenient open spaces for traffic, utilities, access of fire fighting equipment, recreation, light, air, privacy, and safety from fire hazards.
3. Establishment of standards for the design and construction of any and all improvements as herein required.

Section 102. **Authority:** This Ordinance is made, interpreted and enforced by the Township Board and Township Planning Commission under authority of the State of Michigan, Act 288, Public Acts of 1967, and Act 168, Public Acts of 1959, as amended, or any future amendments thereof.

Section 103. **Interpretation:** The provisions of this ordinance shall be construed to be the minimum requirements necessary for the preservation of public health, safety, and welfare within the Township. This ordinance is not intended to repeal, abrogate or supersede any existing regulations of the Township, or to conflict with any statutes, laws or regulations of the State of Michigan or Oakland County, except that these regulations shall prevail in cases where these regulations impose a lawful restriction or requirement more severe than existing statutes, laws or regulations. If any section or provision of this ordinance shall be held invalid by a court of competent jurisdiction, this shall not affect the validity of other sections or provisions hereof.

Section 105. **Scope:** Subsequent to the effective date of this ordinance, no plat within the Township of Independence shall be approved by the Township Planning Commission unless it conforms to this ordinance, however, those plats having received preliminary approval and whose engineering construction drawings have been approved by the Township Consulting Engineer within six (6) months previous to the time of adoption of this ordinance, shall not be required to meet specifications greater than those in existence at the time of their approval.

Article II. DEFINITIONS

Section 200. The following definitions apply to the meanings of respective terms as they are to be construed in this ordinance.

1. **Alley:** A public right-of-way which affords only a secondary means of access to abutting property and not intended for general traffic circulation.
2. **Building Line:** A line established in a plat or by recorded restrictive covenants for the purpose of prohibiting construction of any portion of a building or structure between such line and any easement, right-of-way, or other public area.
3. **Collector Road:** A street or highway intended primarily for mutual access between major and minor streets, for entrance to residential areas and for circulation within such areas.
4. **Comprehensive Development Plan:** The Comprehensive Development Plan for the Township of Independence, Oakland County, Michigan as adopted by the Planning Commission in accordance with Act 168 of Public Acts of 1959, as amended.
5. **Cul-de-Sac:** A short minor street with only one end open to vehicular traffic and being permanently terminated at the other end by a vehicle turn-around.
6. **Dead End Street:** A street with only one end open to vehicular traffic and not provided with a vehicle turn-around at the other end.
7. **Easement:** An irrevocable grant by the property owner of the use of a parcel of land by the public or public utility, a corporation, or private person or persons for a specific purpose or purposes.
8. **Final Plat:** A map of all or part of a subdivision prepared and certified as to its accuracy by a land surveyor. Such maps must meet the requirements of this Ordinance and Act 288, Public Acts, 1967.
9. **Half-Street:** One-half of the total right-of-way planned for a street located on the periphery of a subdivision and adjacent to unplatted land.
10. **Improvements:** Any additions to or changes in the natural state of the land which increases its value, utility or habitability. Improvements include street pavements, with or without curbs and gutters, sidewalks, grading, water systems and mains, storm and sanitary sewers, street trees and other appropriate and similar items.
11. **Local or Minor Street:** A street intended primarily to provide access to abutting property.
12. **Lot:** A portion of a subdivision or other parcel of land intended to be a unit for transfer of ownership or for development.
13. **Major Thoroughfare:** A main traffic artery designated on the Township's Comprehensive Development Plan as a Major Thoroughfare.
14. **Master Development Plan:** A sketch plan showing the lot, street, open space and utility arrangements for the overall development of a tract of land, with part of the development not proposed in the present subdivision application.
15. **Outlot:** A parcel of land lying within the boundaries of a platted subdivision but not included as a numbered lot.
16. **Parcel:** A unit of land under one ownership.
17. **Performance Guarantee:** Any security, including performance bonds, escrow agreements, and other similar collateral or surety agreements, which may be accepted by the Township Board as a guarantee that required subdivision improvements will be made by the developer.
18. **Planning Commission:** The Planning Commission of the Township of Independence, Oakland County, Michigan.
19. **Preliminary Plat:** A map indicating the proposed layout of the subdivision in sufficient detail to provide adequate basis for review and to meet the requirements and procedures set forth in this Ordinance.
20. **Pre-Preliminary Plat:** A sketch map of a proposed subdivision of sufficient accuracy and scale to serve the purposes of this Ordinance.
21. **Proprietor:** See Subdivider, infra.
22. **Public Reservation:** A portion of a subdivision which is set aside for public use or made available for public acquisition.
23. **Public Utility:** A firm, corporation, or municipal authority providing gas, electricity, telephone, sewer, water, or other services of a similar nature.
24. **Public Walkway:** A public right-of-way dedicated for the purpose of a pedestrian access, and located so as to connect to two or more streets, or a street and a public land parcel.
25. **Reserve Strip:** A strip of land in a subdivision which extends across the end of a street proposed to be extended by future platting or a strip which extends along the length of a partial width street proposed to be widened by future platting, to the minimum permissible width.
26. **Street:** A right-of-way dedicated and/or deeded for public use, other than an alley, which provides for public travel.
27. **Subdivider:** Any person, firm or corporation, estate, trust or other group or combination acting as a unit, which divides or proposes to divide land so as to constitute a subdivision as defined herein. This definition shall be construed to include any agent of the subdivider.
28. **Subdivision:** The division of a lot, tract, or parcel of land into five or more lots, tracts or parcels of land for the purpose, whether immediate or future, of sale of building development. The meaning of the term "subdivision" shall include any tract where the plat or plan provides for the creation of extension of any part of one or more streets, easements or other rights-of-way whether public or private, for access to or from such tract; and shall include the resubdivision of any previously platted tract. The meaning of the term "subdivision" shall not, however, apply to the partitioning or dividing of land into tracts or parcels of land more than ten (10) acres in area.
29. **Township Board:** The Township Board of the Township of Independence, Oakland County, Michigan.
30. **Zoning Ordinance:** The Zoning Ordinance of the Township of Independence, Oakland County, Michigan, as adopted and amended, in accordance with the provisions of Act 164 of the Public Acts of 1943, as amended.

Article III. SUBDIVISION PLAT SUBMITTAL PROCEDURES
The review and approval of subdivision development plats, shall follow the steps listed below.

Section 300. **Pre-preliminary Plat review**
Section 301. **Preliminary Plat Approval-Tentative**
Section 302. **Final Approval of Preliminary Plat**
Section 303. **Approval of Final Plat**
Section 300. **Pre-Preliminary Plat Review**
1. Whenever a proprietor desires any pre-preliminary plat review by Township officials he may obtain same by complying with the following:

A. Proprietor's Responsibility:
The subdivider shall provide sketch plans for lot and street arrangements. He shall also indicate his intentions as to water supply, sewage disposal surface drainage and other proposals as appropriate. A master development plan shall be prepared and submitted by the developer prior to the preparation and submittal of his pre-preliminary plat whenever:

- a. The tract proposed is only a portion of a larger land holding of the subdivider and/or
- b. The tract is part of a larger land area which would pose complicated development

due to unusual topographic conditions, land use, land owners, or other conditions.

B. Township's Responsibility:

It is the task of the Township, through its appropriate officials and agents to inspect the site, noting the following:

- a. Major thoroughfares in the area
- b. Utility systems available to service the platted area
- c. Adjacent land uses
- d. Unusual development problems
- e. Topography
- f. Drainage
- g. Existing zoning
- h. Adequacy of existing schools and public open space
- i. Availability and feasibility of providing Township services
- j. Determine need for a master development plan if one hasn't been requested or supplied

C. At the time that a proprietor requests a pre-preliminary review, he shall deposit with the Township Clerk the fee as provided for below.

Section 301. Preliminary Plat Application, Review and Approval

1. **Plat Preparation:** The Preliminary Plat shall be designed and drawn in accordance with Act 288, Public Act of 1967.

2. **Submittal of Data:** At least thirty days prior to the regular meeting of the Planning Commission the subdivider submits ten (10) copies of a letter of intent and the preliminary plat which shall contain and clearly indicate the following information:

- a. Key map showing integration of proposed subdivision with surrounding area.
- b. Owners of adjacent parcels
- c. Adjacent development names
- d. Tract boundary
- e. Title of subdivision
- f. North arrow and date of preparation.
- g. Site data.

(1) **Total Acreage**

- (a) Gross
- (b) Net (residential use only)
- (c) Any other use, i.e., golf courses, marina, etc.

(2) **Number of lots and outlots indicating type of use in each outlot.**

(3) **Typical building arrangement, setbacks, etc.**

- (a) Setback lines must be shown on all corner lots, cul-de-sac lots, and other lots having unusual shape or configuration.
- (b) Proposed location of houses must be shown on all waterfront lots.

h. **Streets.**

- (1) Right-of-way (widths)
- (2) Pavement lines where necessary to illustrate design (e.g., intersections, cul-de-sacs, etc.)
- (3) Names

i. **Lot lines and numbers.**

j. **Easement lines, use of easement.**

k. **Prominent natural and man-made features.**

l. **Notation of reserved and dedicated parcels, specifying intended use, and deed conveyances if any.**

m. **Development drawn over two-foot (2') contour interval map using United States Geological Survey datum.**

n. **Letter of intent, containing:**

- (1) Type of Street and lot grading.
- (2) Intentions on provision of potable water.
- (3) Intentions on provision of sanitary and storm sewers
- (4) Pumping stations
- (5) Sewage treatment plants
- (6) FHA or VA approval, if any
- (7) Restrictive covenants and other proposals referred to in Section 258 of Act 288, P.A. 1967

o. The preliminary plat shall be drawn to a scale of 200 feet to one inch.

p. In accordance with the Sanitary Code of Oakland County Department of Health, if individual septic tanks are proposed, all proposed subdivision land plans shall be accompanied by a letter from said Health Department stating that soil conditions in the subdivision area are suitable for septic tank operations.

3. The proprietor shall deposit with the Township Treasurer all fees as provided for below.

4. **Township Planning Commission Action:** Upon completion of their review and within 45 days of submittal by the proprietor, the Planning Commission will:

- a. Recommend complete denial by the Township Board for specific reasons.
- b. Recommend approval by the Township Board of the preliminary plat as submitted.
- c. Recommend approval by the Township Board after receipt of plans containing specified revisions.

5. **Township Board Review:** Upon notification by the Planning Commission, the Township Clerk then places the review of the preliminary plat on the agenda of the Township Board within 90 days from date of submittal by proprietor.

6. **Township Board Action:** Upon review of the Planning Commission's recommendation, the Township Board shall grant tentative approval or reject, for specific reasons, the preliminary plat.

7. **Approval Period:** Tentative approval of a preliminary plat shall become void after the expiration of one (1) year from the date of such approval unless the subdivider shall have submitted a preliminary plat for final approval or a final plat for approval or unless the Township Board, in its discretion, grants an extension to the said one (1) year period upon the written application of the subdivider. Said tentative approval shall confer only the rights afforded to the proprietor under the provisions of Section 112 (4) of said Act 288, P.A. 1967.

Section 302. Final Approval of Preliminary Plat:

1. After the proprietor has obtained the tentative approval of the Township Board for the preliminary plat, the proprietor shall submit his preliminary plat to all authorities as required by Section 112 thru 118, inclusive, of Act 288, P.A. 1967.

2. A proprietor desiring final approval of a preliminary plat shall submit the following items to the Township Clerk:

- a. A list of all authorities required by law to check the preliminary plat, said list shall be certified as correct by the proprietor before a notary public.
- b. Copies of the preliminary plat as approved by all authorities as required by Sections 112 thru 118, inclusive, of Act 288, P.A. 1967.
- c. Copy of receipt from Township Clerk that all fees as provided for below have been paid.
- d. Preliminary plat may be in blue print form and shall display all dimensional information required to be on Final Plat.

3. Within 20 days of the submission of the foregoing the Township Board shall grant final approval of the preliminary plat if the proprietor has met all conditions laid down for approval of said plat or reject said plat and advise the proprietor of the reason(s) for said rejection.

Section 303. Final Plat Approval

1. **Contents:** The final plat shall conform to the approved preliminary plat, shall constitute only that portion of the approved preliminary plat which the subdivider proposes to record and develop at the time, and shall conform in all respects to the requirements of the State of Michigan Act 288, Public Acts of 1967.

2. **Submittal:** The developer submits five (5) copies of the final plat, five (5) copies of construction plans for improvements in the subdivision, and all restrictive covenants for the subdivision, together with copies of the design engineer's detailed estimate of construction costs, to the Township Clerk. The proprietor shall pay all fees for Final Plat Approval at the time of submission to the Township Clerk in accordance with the fee schedule below.

3. **Township and Board Action on Final Plat:** The Township Clerk, within 20 days after receipt of the final plat, shall place the review of the final plat on the agenda of the Township Board. If the County Road Commission and County Drain Commission have approved the plat, the subdivider shall be notified officially, by mail by the Township Clerk, of the decision.

4. **Evidence of Title:** The proprietor shall furnish to the Township Clerk an Abstract of Title or a policy of title insurance, certified to the date of submission of the final plat covering all of the land included within the boundaries of the final plat.

5. **Conditions for Approval:** Approval of a final plat by the Township Board shall not in any way constitute legal acceptance of dedicated streets, alleys or other public areas indicated on such plat. The subdivider shall be responsible for obtaining all required approvals of the final plat and/or construction plans from the County Road Commission and other public bodies having jurisdiction over any aspect of the proposed development.

Article IV. DESIGN STANDARDS FOR SUBDIVISION PLANNING

Section 400. **Minimum Lot Size for Residential Property:** Whenever a proprietor proposes to plat a subdivision for residential use without sanitary sewers services, the area of each residential lot in such plat shall be not less than 15,000 square feet and each residential lot shall be not less than 100 feet wide at the front building line.

Section 401. Water System Design Standards

401.01 **Scope**
These standards establish minimum requirements for the design of water distribution systems in the municipality.

401.02 **Plans and Specifications.**

A. The plans and specifications shall be prepared under the supervision of a Civil Engineer registered in the State of Michigan and each sheet of the plans shall have imprinted thereon the seal of that Engineer.

B. Plans shall consist of a cover sheet showing a plan view of the complete job, split plan and profile sheets, when and if required, and standard detail sheets. Sheet size shall be 22" x 36" or 24" x 36".

C. Elevations shall be based on USGS datum, except in those municipalities which have an established local datum. Elevations based on an assumed datum will not be acceptable. Bench marks shall be established at least every 1200' and shown on the plans. Street names and widths, subdivision names, lot numbers, legend, list of quantities, and other pertinent information shall be shown on the plans.

D. There shall be a note on the plans requiring that all construction is to be done in accordance with the municipality's current standards and specifications.

E. Ten sets of final plans and specifications shall be submitted to the municipality. The municipality will, after approval, forward 3 sets of plans and specifications to the Michigan Department of Public Health with a request for a construction

permit. No work shall be started until this permit has been received.

401.03 Design Considerations

A. Generally all water mains shall be located on the north or east side of all streets 7 1/2' off property line.

B. Minimum cover from grade to mains shall be 5' including crossings through ditch sections. When mains parallel ditches, they shall have 6' cover below the shoulder of the road, to insure cover for house leads.

C. Feeders shall generally be located on section line roads and arterial roads and shall be 12" diameter or larger. In new subdivisions water mains shall be installed from boundary to boundary. Generally mains within subdivisions shall be 8" diameter minimum. With approval of the municipality, 6" diameter mains may be used on short cross-connections and dead-ends.

D. Cast iron piping in fill areas shall have a maximum length of 12' unless otherwise authorized by the municipality.

E. All designated water crossings shall be made with ductile iron pipe.

F. In general, no house in a subdivision shall be more than 300' from a fire hydrant as measured along the street right-of-way line.

G. Spacing of hydrants around commercial or manufacturing establishments shall be considered as individual cases and shall be determined by consultation with the municipal water department.

H. In general, hydrants shall be located in the road right-of-way 10' from the edge of the right-of-way and on the extension of a side property line. The maximum distance to a hydrant from the centerline of the right-of-way of streets or roads having a 1/2 right-of-way width greater than 40' (or from the centerline of the nearest roadway in the case of a divided highway) shall be 30'. The location of hydrants with respect to the right-of-way line shall be indicated on the plans.

J. Hydrants shall be installed at the end of all dead-end mains. A 3/4" corporation cock shall be provided adjacent to the hydrant, with 10' + of copper service pipe attached for the purpose of obtaining water samples; when the nearest gate well is more than 10' away.

K. Fire hydrants shall be located at street intersections where feasible.

L. In general, gate valves on cross-connecting mains shall be located so that no single break shall require more than 800' of main to be out of service, and on feeders, gates shall be spaced not more than 1/4 mile apart. Gates shall be so arranged that any section can be isolated by closing not more than 4 gates.

M. Gates and wells shall be installed on all dead-ends intended for future extensions.

N. Where new mains connect to existing mains, a gate valve and well shall be provided at the point of connection or as design dictates.

P. Gates shall generally be located far enough back from the intersection of street right-of-way lines to clear crosswalks.

Q. Unless otherwise approved, all curb stops and boxes shall be set 6" in on the street side of the property line.

401.04 **Materials and Appurtenances**

A. **Water Main**
Water main shall be of U.S. manufacture and shall be designed for 150 psi minimum working pressure. The following materials are approved for use in water mains:

1. Asbestos cement conforming to AWWA C-400-64T.
2. Cast iron conforming to ASA A21.6-1962 or ASA A21.8-1962.
3. Concrete conforming to AWWA 301-64, lined cylinder type.
4. Ductile iron conforming to AWWA C-151-65.

B. **Joints and Fittings**

1. **Asbestos Cement Main:**
Joints shall be in accordance with AWWA C-400-64T, "Ring-Tite", or equal as approved by the municipality.

2. **Cast Iron Main:**
a. Flanged joints shall conform to ASA B-16-1-1948. Bolts and nuts shall be NI-Resist, Corten or equal as approved by the municipality.
b. Mechanical joints shall conform to ASA A21.11-1964. Bolts and nuts shall be NI-Resist, Corten or equal as approved by the municipality.
c. Push-on joints shall be in accordance with ASA A21.11-1964. (Example: "Tyton", "Super Bell-Tite" or as approved by the municipality.)

3. **Concrete Main:**
a. Joints shall be steel and rubber, conforming to AWWA C-301-64.
b. Fittings and specials shall conform to AWWA C-301-64, Type B.

4. **Ductile Iron Main:**
a. Mechanical joints shall conform to ASA A21.11-1964.
b. Push-on joints shall be in accordance with ASA A21.11-1964. (Example: "Tyton", "Super Bell-Tite" or as approved by the municipality.)

5. Lead joints shall not be used unless specifically authorized by the municipality.

C. **Water Main Lining**

1. Lining for cast iron main shall be cement mortar, standard thickness, conforming to ASA A21.4-1964.
2. Lining for ductile iron main shall be cement mortar, standard thickness, conforming to ASA A21.4-1964.

D. **Fire Hydrants and Appurtenances**

1. Hydrants shall be 3-way Mueller improved A24015 or equal with 5 1/4" valve opening and shall have the break-flange feature. Minimum cover from grade to the hydrant latch between the main and the hydrant shall be 5', including crossing through ditch sections. Hydrant barrel lengths shall be sufficient to accommodate this requirement.
2. Hydrants shall have two 2 1/2" hose nozzles, and one 4 1/2" pumper nozzle. Size of shoe shall be 8". Direction of opening shall be counterclockwise. In all cases, thread shall conform to municipal water department standards and operating nuts shall be 7/8" or 1" size only. The pumper nozzle shall face the street centerline.
3. All hydrants shall have plugged drain openings. Hydrants shall be placed upon poured concrete bases having a minimum thickness of 4". Concrete shall be 3 bag wet-mix.
4. A 6" gate valve and a cast iron, 3 piece gate box having a 5 1/4" diameter screw shaft and an oval base, shall be placed at each hydrant.
5. Lucas tees shall not be used unless specifically authorized.

E. **Gate Valves and Wells**

1. All gates, except those at hydrants, shall be installed in wells.
2. Gate valves shall be iron body, fully bronze-mounted, double disc, parallel seat type, non-rising stem, opening counterclockwise, and conforming to AWWA Standards. There shall be corporation cocks installed in the main on each side of the valve in each gate well, sized according to the enclosed standard detail drawings which are a part of these specifications.
3. Valves in gate wells shall be at least 4" above floor of gate well, and shall be blocked with either mortared brick or formed concrete.
4. Gate wells shall be brick, block or precast concrete and shall be sized as shown on the standard detail drawings.
a. Brick shall be grade MA conforming to the requirements of the "Standard Specifications for Sewer Brick", ASTM C 32.
b. Mortar block shall meet ASTM requirements for load bearing concrete masonry units C-90-52.
c. Precast gate wells shall conform to ASTM C76, Class 11.
d. A 1/2" coat of 1:2 1/2 cement mortar shall be applied on the outside of all brick or block used.
5. Mortar for laying brick or block and plastering outside of structures shall be composed of 1 part patented mortar and 2 1/2 parts masonry sand (2MS, MSHD Specifications).
6. Gate well bases shall be concrete, be at least 8" thick, and extend at least 6" outside the wall of the well.
7. Gate well covers shall be in accordance with the standard detail drawings.
8. Gate well steps shall be 1" cast iron or high-grade aluminum with foot-recess and suitably scored to provide a non-slip surface.
9. All openings in the walls of gate wells where the water main passes through the well shall be closed with brick and mortar in accordance with the standard detail drawings.
10. In no case, shall a sewer be laid to a gate well for drainage.

F. **Thrust Blocks**

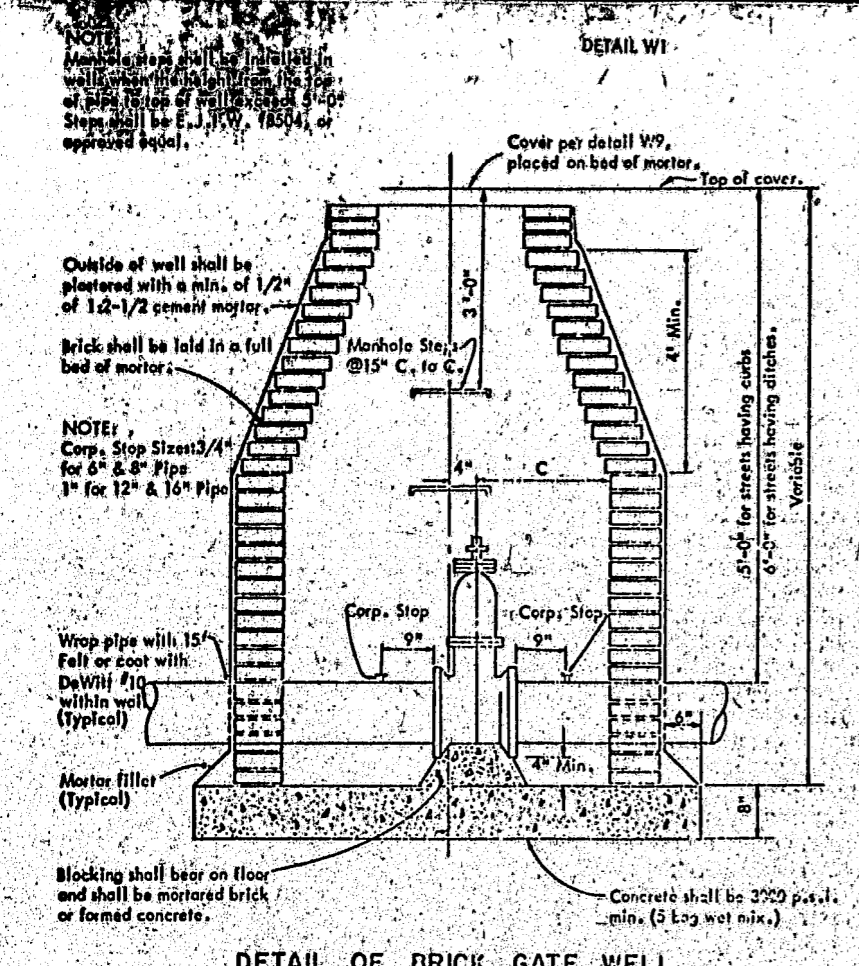
1. Thrust blocks shall be installed at all bends of 22 1/2 degrees or more and at all dead-ends, tees, reducers, hydrants and crosses.
2. Thrust blocks shall be constructed of 3 bag wet-mix concrete.

G. **Meters and Service Lines**

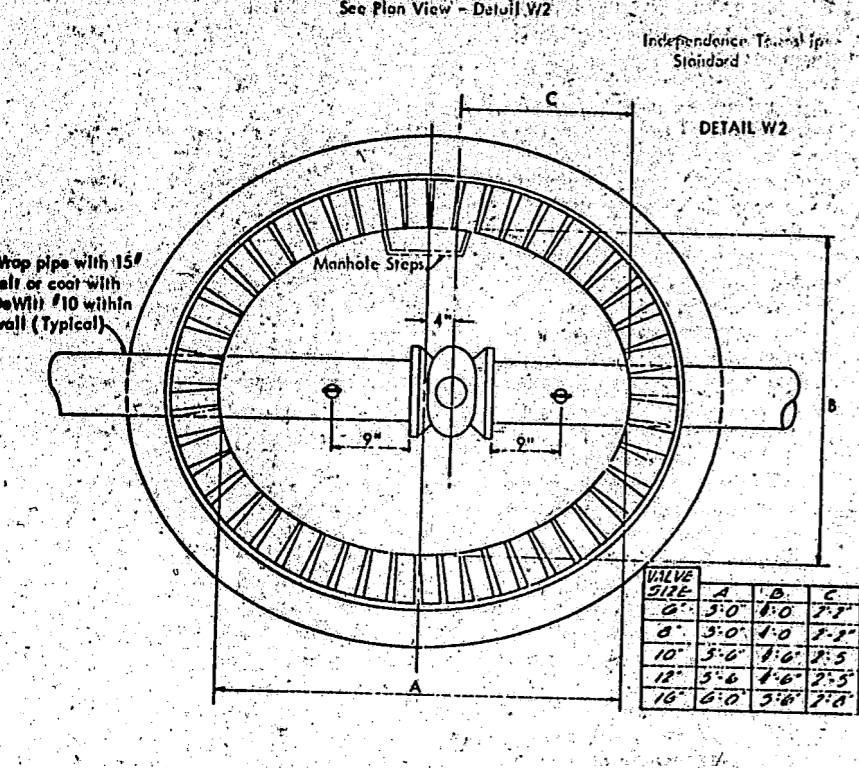
1. Service lines from the corporation cock to the curb stop shall be 1" diameter and of Type K soft annealed copper.
2. The corporation cock shall be Mueller H 15000 or equal, the curb stop shall be Mueller H 15200 or equal, and the curb box shall be Mueller H 10314 or equal.

(See detail drawings on following page)

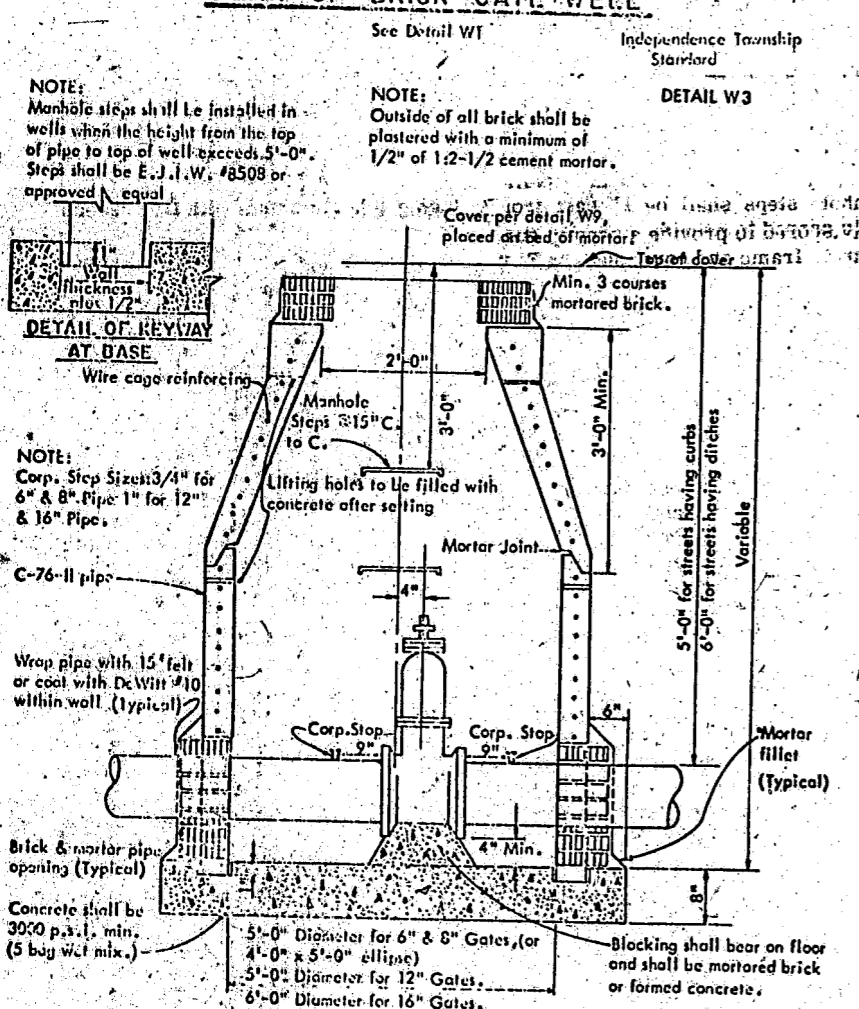
(Continued on column 2, page 10)



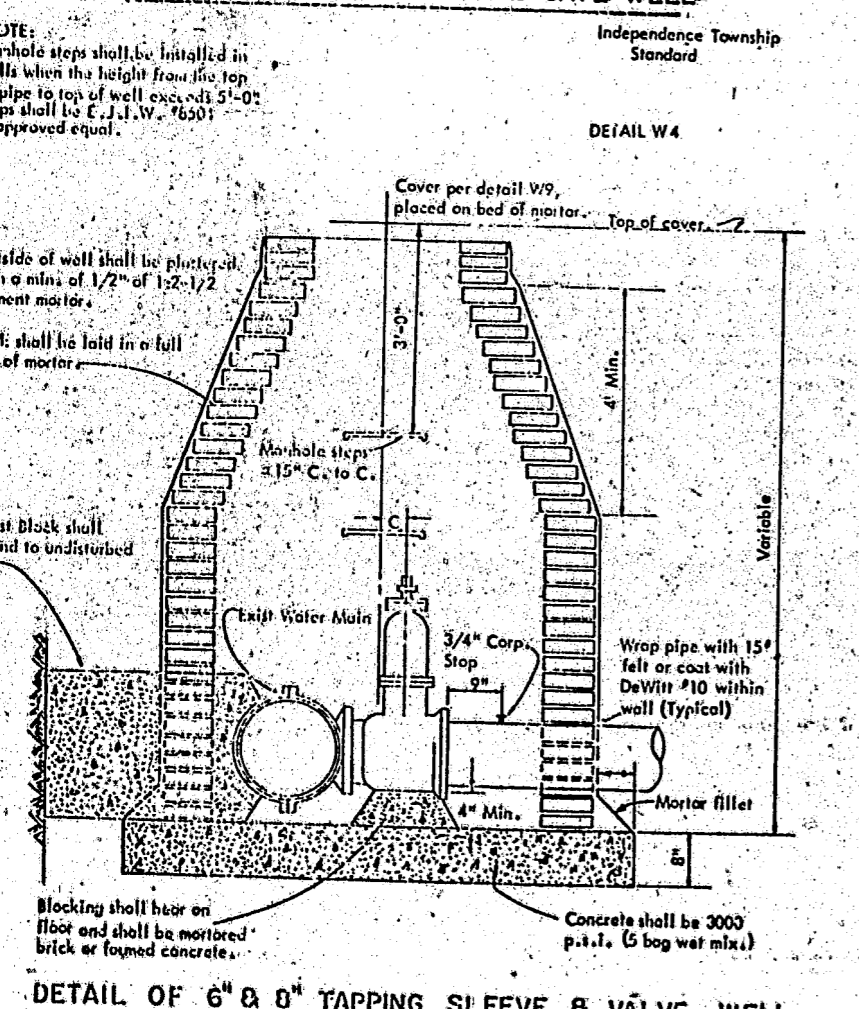
DETAIL OF BRICK GATE WELL



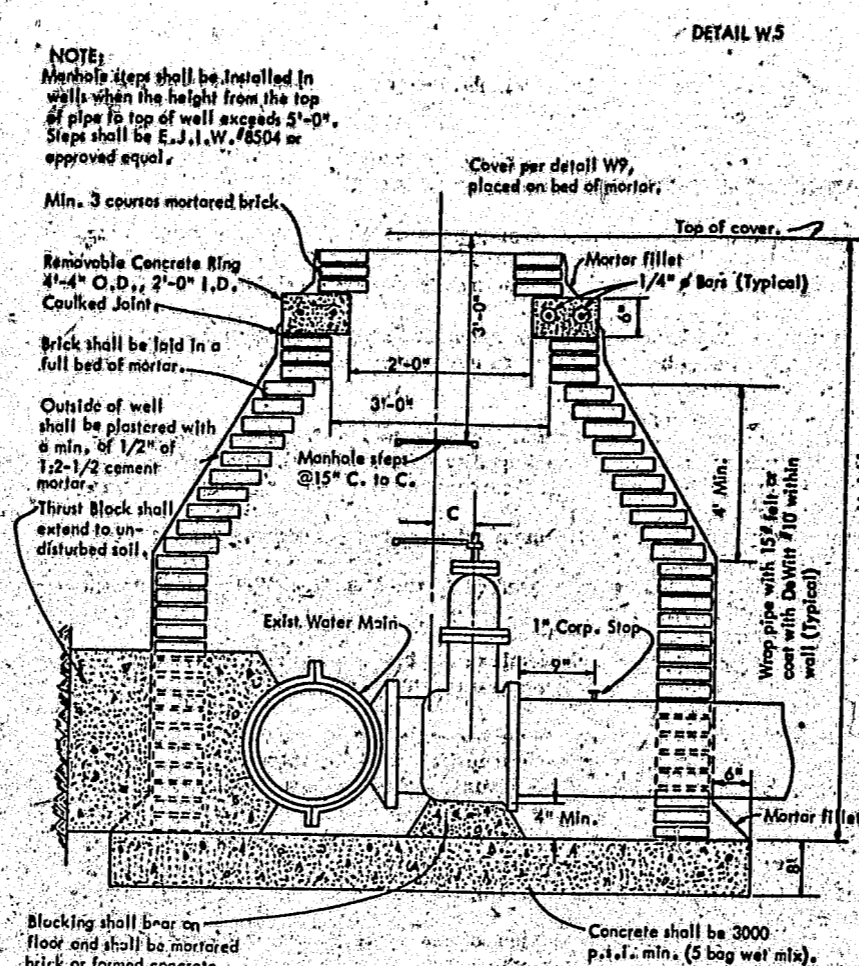
PLAN OF BRICK GATE WELL



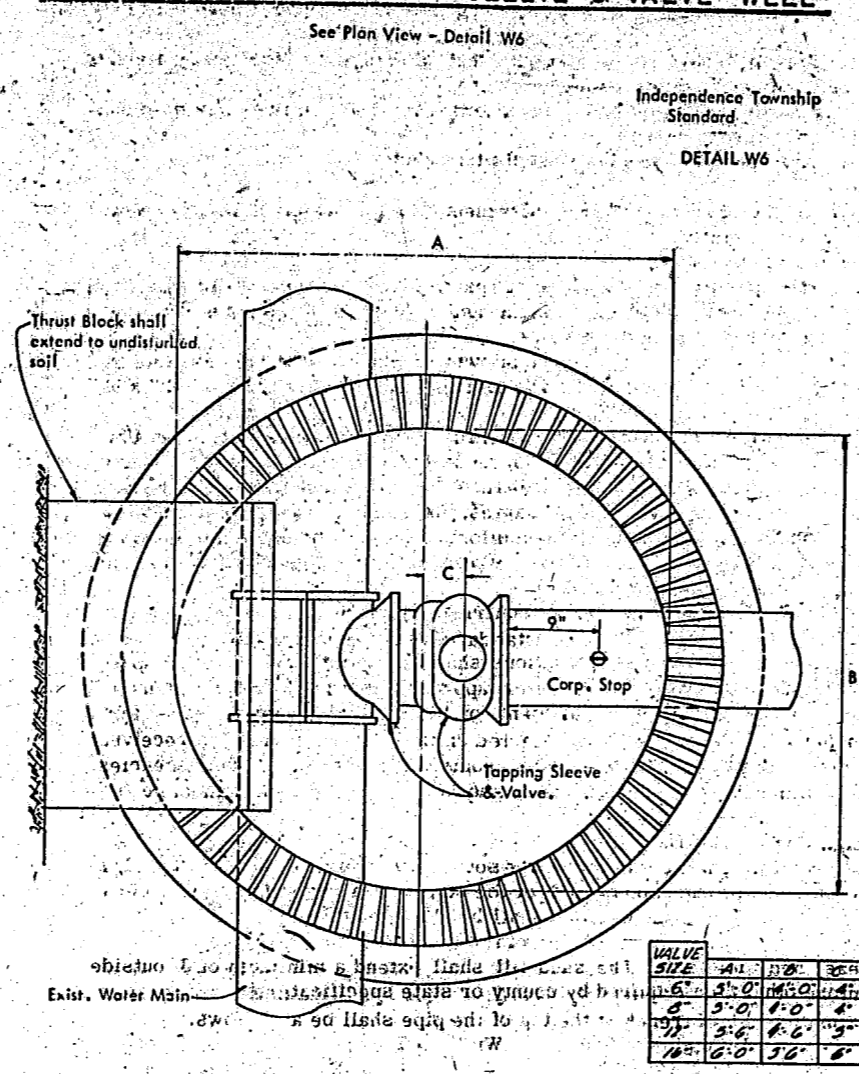
DETAIL OF BRICK GATE WELL AT BASE



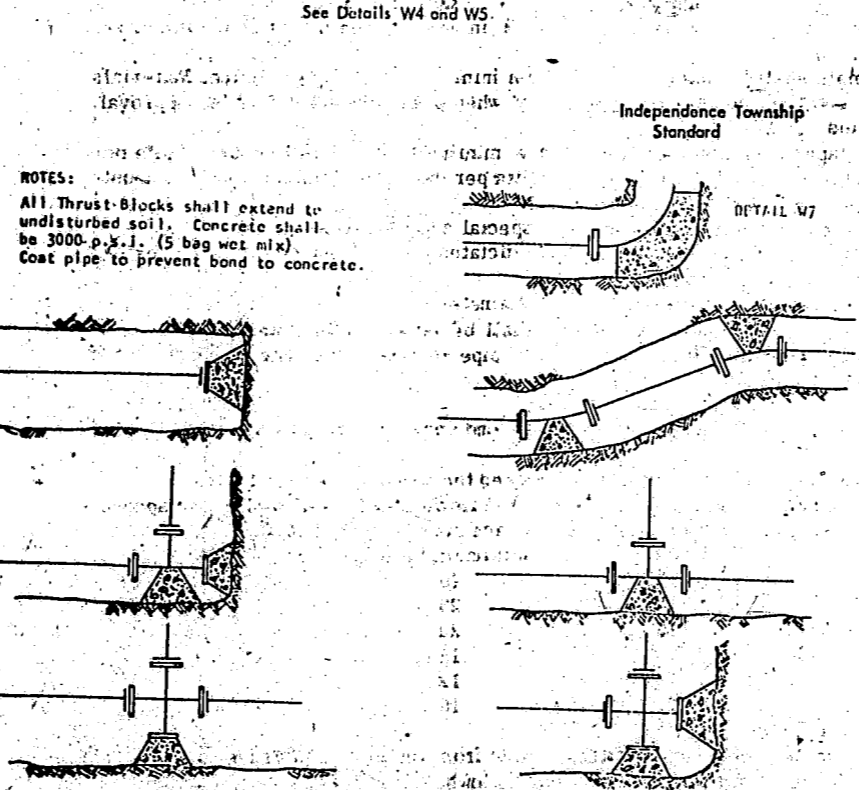
DETAIL OF BRICK GATE WELL



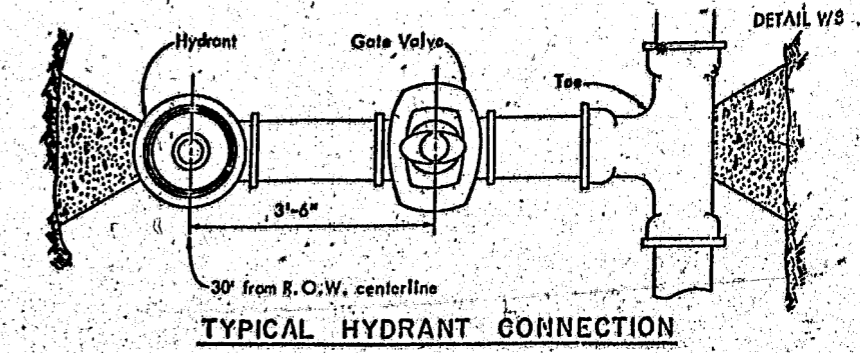
DETAIL OF 12" X 16" TAPPING SLEEVE & VALVE WELL



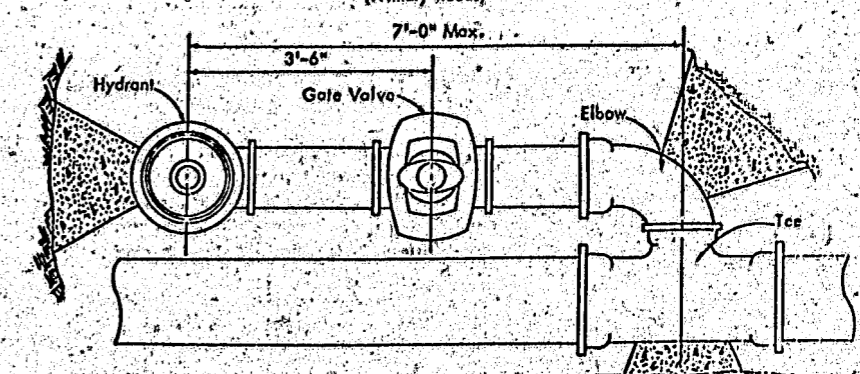
PLAN OF TAPPING SLEEVE & VALVE WELL



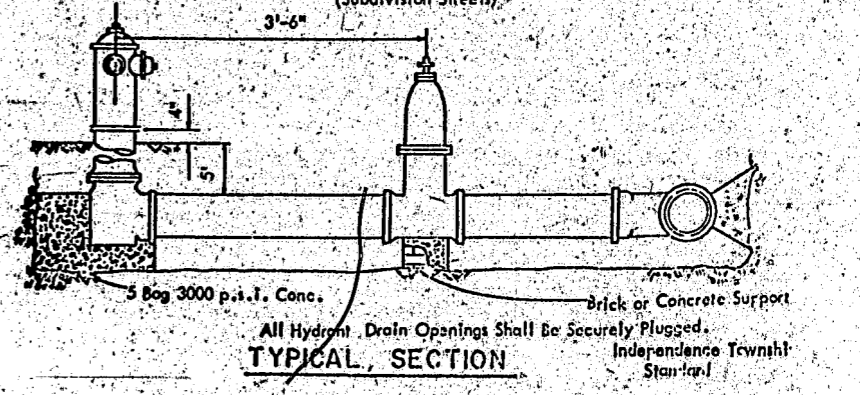
DETAIL OF 6" X 8" TAPPING SLEEVE & VALVE WELL



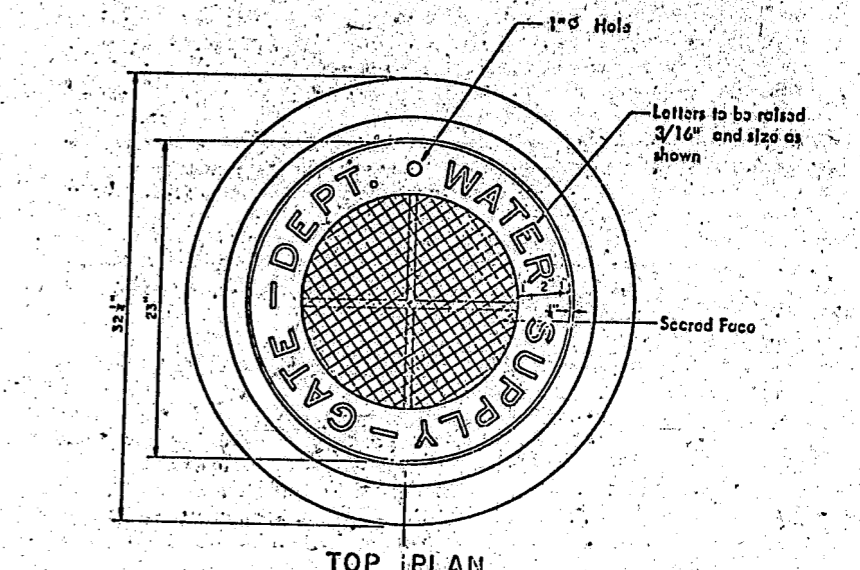
TYPICAL HYDRANT CONNECTION (Primary Roads)



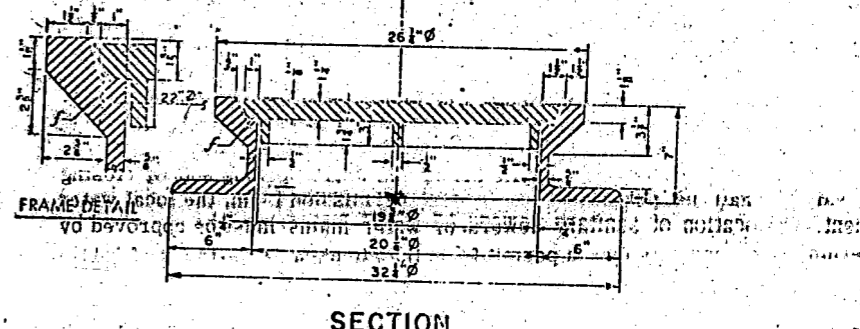
TYPICAL HYDRANT CONNECTION (Subdivision Streets)



TYPICAL SECTION



TOP PLAN



SECTION

MATERIAL: Gray iron, A.S.T.M. Std. Spec. A-48, Class 30.
Bearing surfaces of cover and flange shall be ground to prevent rocking. Casting shall not be scathed.

TOTAL WEIGHT: 420 lb. with cover

Main Size	THRUST TABLE		
	Tees Dead Ends	90 Degree Bends	45 Degree Bends
6"	4,250	6,000	1,250
8"	7,500	10,500	2,500
12"	16,500	23,500	5,750
16"	30,150	42,500	12,350
20"	47,120	66,500	18,770
24"	67,850	96,000	26,420
36"	152,680	215,920	59,350

THRUST BLOCK LOCATIONS & TABLES

TYPE OF SOIL	SOIL BEARING LOADS - (Horizontal Thrust)
Muck, Peat, etc.	500
Soft Clay	1000
Sand	2250
Sand and Gravel	3000
Sand and Gravel compacted with clay	4250
Hard compacted clay	5000

- 402.03 Excavation and Preparation of Trench
The trench shall be excavated so the pipe can be laid to the alignment and grade required. Excavation shall proceed only as far in advance of pipe laying as permitted by the municipality.
- 402.04 Width of Trench
The maximum width of the trench at top of pipe shall be: 36" for pipe 12" in diameter or smaller; the diameter of pipe plus 2" for pipe from 12" to 36" in diameter; the diameter plus 2" for pipe from 42" to 60" in diameter; and the diameter plus 3" for 66" pipe or larger.
- 402.05 Pipe Clearance in Rocks
Ledge rock, boulders and stones over 2" in diameter shall be removed to provide a clearance of at least 6" from any part of the pipe or fittings.
- 402.06 Sheeting and Bracing
Sheeting, bracing and/or shoring as may be necessary for the safety of the work, public, or adjacent property shall be provided. The sheeting, bracing or shoring shall be removed as the work progresses in such a manner as to prevent the caving in of the sides of the excavation or any damage to the pipe or structure. Any voids left by removal of said materials must be filled with sand and compacted.

- 402.07 Open Cutting and Tunneling of Trees
A. Trees 8" in diameter and smaller shall not be open cut closer than 4'.
B. Trees 2" in diameter and less can be removed, "heeled in" and replanted if proper precautions are taken to prevent permanent injury to the tree.
C. Trees larger than 8" in diameter shall not be open cut closer than the radius in inches multiplied by 1'. That is, a 12" tree shall not be open cut closer than 6'.
D. Tunneling operations adjacent to or under trees shall begin and end at points which fall outside a radius equal to:
1. Four feet around trees 8" in diameter or less.
2. The radius of the tree in inches multiplied by 1' as noted in paragraph C above.
- 402.08 Removal and Disposal of Water
Where the work is in ground containing water, the contractor shall provide, install, maintain, and operate adequate dewatering equipment necessary to maintain the water level below the excavation subgrade. Drainage or discharge lines shall be connected to adjacent public storm water drains or extended to nearby water courses wherever possible. In any event, all pumping and drainage shall be done without damage to any highway or other property, public or private, and without interference with the rights of the public or private property owners.
- 402.09 Pipe Bedding
Pipe bedding shall be defined as that material placed from a minimum of 4" below the pipe to the centerline of the pipe.
Pipe bedding shall be sharp sand which will lose not more than 7% by washing. Bedding material shall be deposited uniformly in the trench for its full width on each side of the pipe.
- 402.10 Laying of Mains
A. Handling Material
Proper and suitable tools and appliances for the safe and careful handling, conveying and laying of the pipe shall be used. Care shall be taken to prevent the coating of cast iron pipe from being damaged. Pipe, valves, hydrants and fittings strung along the route shall be placed in such a manner that they will not be submerged or collect water. Dropping of material directly from a truck or platform is prohibited.
B. Cleaning Pipe and Fittings
All lumps, blisters and excess coal-tar coating shall be removed from the bell and spigot end of each pipe and fitting. The outside of the spigot and the inside of the bell shall be wire-brushed and wiped clean, dry and free from oil or grease prior to laying. The inside of the pipe shall be free of dirt and debris. Any damage to exterior pipe coating shall be repaired with an approved coating before the pipe is laid.
C. Laying Pipe
Pipe shall be laid with the bell ends facing the direction of laying, unless otherwise authorized by the municipality. Under no circumstances shall pipe be dropped directly into the trench.
Precautions shall be taken to prevent foreign material from entering the pipe while it is being placed. After placing a length of pipe in the trench, the spigot end shall be centered in the bell, and the pipe forced home to correct line and grade. At all times, the open ends of the pipe shall be covered to prevent foreign matter from entering.
Should the trench contain water, the open ends of the pipe shall be closed by a watertight plug. This provision shall apply during the noon hour as well as overnight. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.
402.11 Backfilling
Unless otherwise directed, all excavations shall be backfilled at least to a point 1' above pipe immediately after installation.
A. Backfilling Around Pipe (Pipe Bedding)
All backfill material shall be free from cinders, ashes, refuse, vegetable or organic matter, boulders, rocks or stones, or other materials which, in the opinion of the municipality, are unsuitable.

B. Backfilling Around Pipe (Pipe Bedding)

All trenches shall be backfilled by hand, from the bottom of the trench to a horizontal plane passing through the center of the pipe, with material specified in paragraph 402.09. It shall be placed in layers of 3" and compacted to 95% of maximum bulk density as determined by AASHTO T-99 Method. Backfill material shall be deposited uniformly in the trench for its full width on each side of the pipe.

C. Backfilling Over The Pipe

From a horizontal plane passing through the center of the pipe to a point 1' above the top of the pipe, the trench shall be backfilled with sand, placed in 6" layers and thoroughly compacted by mechanical tamping.

D. Drives, Parking Areas, Streets and Sidewalks

The trench backfill under drives, parking areas, streets and sidewalks shall be of approved sand placed in layers not to exceed 6" in thickness and compacted to 95% of maximum density as determined by the AASHTO T-180 Method. This backfill shall include the area to the outside of shoulders in ditch sections and 3' outside of curbs in curb sections, and thence down on a ratio of 1/2 to 1 slope, unless otherwise required by the governmental body or agency having control of the streets, etc. In all cases, this fill shall be constructed to an elevation determined by the proposed grade of the surfacing. Except under sidewalks, the top 8" shall be 22A aggregate (MDSH Designation) thoroughly compacted in 4" layers and maintained until the original type of surfacing is properly placed. For sidewalks, the sand backfill shall be constructed to the existing sidewalk grade and maintained until the sidewalk is placed.

E. Backfilling to Grade

Backfilling of trench shall not fall more than 100' behind pipe laying operation unless otherwise permitted by the municipality. Where compaction of the backfill as noted above is not required by the plans or specifications, excavated material shall be placed in the trench to proposed elevation. Unless otherwise specified or shown on the plans, backfill so placed shall be mounded to allow for settlement, and later graded to conform to original levels and appearance. Excess spoil shall be removed from the site. Wasting of spoil by grading over existing right-of-way will not be allowed. Any settlement of trenches occurring within 1 year after completion of the Contract shall be filled and regraded immediately at the request of the municipality.

F. Backfilling Around Hydrants

Backfilling around hydrants shall be by hand from a horizontal plane passing through the center of the hydrant lead to a point 1' below proposed ground elevation with approved sand placed in 6" layers and compacted. Care shall be taken to insure that the hydrant will remain plumb during backfilling.

G. Backfilling Around Gate Wells

After the structure and/or plaster have set up sufficiently to avoid damage, backfilling shall be done in a manner that will not cause unequal pressure on the structure. No backfill material except sand shall be placed within 3' of the structure.

402.12 Restoration

Street or road surfaces disturbed shall be replaced with original type materials or as may be required by the authority having jurisdiction.

Street signs, mail boxes, fences, private drives, parking areas, sidewalks, culverts, ditches and other improvements shall be restored to original or better condition in a manner acceptable to the municipality as soon as possible.

All lawns, shrubs and trees shall be watered for a period of 30 days after planting.

402.13 Road Crossing

All road crossings shall be done under permits issued by and shall be in accordance with the requirements of the governmental body or agency having jurisdiction over the road to be crossed. Notice as required shall be given to said governmental body or agency before work starts.

402.14 Water Crossing

Water crossings shall be constructed in accordance with the plans and requirements of the governmental body or agency having jurisdiction over the water-way to be crossed.

402.15 Railroad Crossing

Whenever a water main crosses a railroad, it shall be in strict accordance with railroad specifications.

402.16 Utility Crossing

A minimum of 9" clearance shall be provided between the water main and any existing underground utility unless otherwise required by the municipality.

Whenever a main is installed under any existing utility line such as gas, sewer or water, provisions shall be made to prevent the weight of such utility line from straining and possibly breaking the main. Such provisions shall consist of concrete bedding of the main, complete concrete encasement, or some other method approved by the municipality. If a sanitary sewer line is encountered, the water main shall be laid so that the center of a standard length of pipe shall fall on the centerline of the sanitary sewer line.

402.17 Public Utilities

Any work on utilities, such as removal and replacement thereof (including chlorination and pressure testing of water mains), shall be done only with the agency or department in charge of the utility being fully informed 48 hours in advance of the work and having an inspector on the site during the work. Opening and/or closing of gate valves shall be performed by, or with permission from, the local water department. (Relocation of sanitary sewers or water mains must be approved by the governing body and requires a permit from the Michigan Department of Public Health.)

402.18 Thrust Blocks

Thrust blocks shall be constructed of 3 bag wet-mix concrete. Concrete thrust blocks shall be placed at all bends of 22 1/2 degrees or more, and at all dead-ends, tees, reducers, hydrants and crosses and valves as required. Area in square feet of concrete thrusting against undisturbed earth shall be computed by dividing the total thrust by the safe bearing load of the soil. Thrust and safe bearing loads for soils are shown in the following tables:

Main Size	Tee or Dead-End	90° Bend	45° Bend	22 1/2° Bend
6"	4,250	6,000	3,250	1,660
8"	7,540	10,670	5,770	2,940
12"	16,970	23,990	12,980	6,620
16"	30,160	42,650	23,090	11,770
20"	47,120	66,650	36,070	18,390
24"	67,860	96,000	51,940	26,480
36"	152,680	215,920	116,860	59,580

Safe bearing loads (Horizontal Thrust)

Soil	Safe Bearing Load - Lbs. per sq. ft.
Muck, Peat, etc.	1000
Soft Clay	2000
Sand	3000
Sand and Gravel	4000
Sand and Gravel Cemented with Clay	5000
Hard Compacted Clay	5000

In muck or peat all thrust shall be resisted by pilings driven to solid foundations or by removal of muck or peat and replacement with ballast of sufficient stability to resist thrusts. In all cases, thrust block size and method of thrusting must be approved by the municipality before the thrust block is placed.

402.19 Pressure Tests

A. Preliminary testing of mains shall be performed to ascertain if there are any major breaks. Final pressure tests shall be made in the presence of the municipality, who shall receive 24 hours notice prior to testing. If it is necessary for the municipality to supervise more than 1 test, the municipality shall be reimbursed for the additional cost involved. Each 5000' section of water main shall be pressure tested as if it is constructed, unless otherwise authorized by the municipality. Pressure testing of each 5000' section shall be made in increments of 2000' or less. B. Before applying the specified test pressure, all air shall be expelled from the pipe. If hydrants for blowoff are not available at high points, necessary taps to release the air shall be made. Plugs or corporation cocks shall be inserted after the test has been completed.

C. Proper appliances and facilities for testing and draining the main without injury to the work and surrounding territory shall be provided. The system shall be tested by filling the main with clean water under a minimum hydrostatic pressure of 150 lbs. per square inch, based on the elevation of the lowest point in the line to be tested and corrected to the elevation of the test gauge. In no case shall the leakage in any stretch of pipe being tested exceed the following amounts in an 2 hour period: 8" pipe - 0.47 gallons per 100 lineal feet; 12" pipe - 0.93 gallons per 100 lineal feet; 16" pipe - 1.26 gallons per 100 lineal feet.

D. The allowable leakage is for standard 12' lengths of pipe. If longer lengths of pipe are used, the allowable leakage shall be reduced in the ratio of 12' to the length of pipe used.

E. If as a result of leaking, draining or flushing, street, sidewalk, driveway or parking area subbases become saturated, the material shall be removed and replaced or repaired as directed by the municipality.

402.20 Sterilization of Water Main

A. All new water mains shall be sterilized in a manner acceptable to the governing authority, the municipality, and the Michigan Department of Public Health. If required by the municipality, the new mains shall be sterilized in increments designated by the municipality. Samples shall be taken from corporation cocks only. If mains dead-end at hydrants with no adjacent gate well within 10', a 3/4" corporation cock for sampling shall be installed.

B. The new pipe lines shall be flushed until the water runs clear. This shall be done after the pressure test and before disinfection. Each valved section of the newly laid pipe shall be flushed separately with potable water.

C. The treated water shall remain in the pipe line for at least 12 hours. The main shall then be thoroughly flushed until all of the heavily chlorinated water is removed. Water samples shall be tested with orthotolidine reagent to see that this has been accomplished.

D. Bacteriological water samples shall be collected by the municipality, or its duly authorized representative, from the end of the main being tested. Two successive tests taken 24 hours apart are required. Samples will be submitted to a state approved laboratory for analysis. If the results are unsafe, the chlorine treatment shall be repeated. After an unsafe test, 2 successive safe tests shall be made, 24

hours apart. The municipality shall be reimbursed for all costs when more than 1 treatment or set of tests is necessary.

402.21 Marking

A. Asbestos cement pipe shall be marked as required by AWWA C400-64T.
B. Cast iron pipe shall be marked as required by ASA A21.8-1962, or ASA A21.8-1962.
C. Concrete pipe shall be marked with design pressure, reference marks to layout drawings and schedules, and date of manufacture.
D. Ductile iron pipe shall be marked as required by AWWA C151-65.

402.22 Certification

Certification that all materials meet the requirements set forth in the plans and specifications shall be submitted to the municipality. Source of the certification shall be approved by the municipality.

402.23 Hydrants

A. The municipal water department shall be contacted to be certain the threads of the hydrants furnished will fit the municipality's fire fighting apparatus.
B. Hydrant leads shall have a minimum of 5' of cover in all areas including crossings through ditch sections.
C. All grade, facing, and vertical alignment adjustments of hydrants shall be completed prior to pressure testing.
D. All hydrants shall be cleaned and painted to the Municipal Water Department color code prior to acceptance.

402.24 Final Acceptance

A. After final pressure testing and sterilization but before final acceptance, all gate valves shall be opened. The municipality shall be notified prior to opening of the valves.
B. After completion of the project and before it is accepted by the municipality, an "As-Built" plan, acceptable to the municipality, shall be submitted by the proprietor, showing exact locations of all mains, hydrants, gates, wells, etc., with detailed ties to all surface appurtenances. Where the project is divided into various sections for construction purposes, an "As-Built" plan shall be submitted for each section upon completion of that section. After completion of all sections, an "As-Built" plan shall be submitted covering the entire project as a whole. "As-Built" plans shall be reproducible.

C. The municipality will assume operation of the system, when the following requirements have been met by the proprietor:
1. "As-Built" drawings of the system, acceptable to the municipality, have been submitted.
2. Waivers of lien from all contractors, suppliers and engineers have been submitted.
3. A sworn statement by the proprietor that all bills for labor and materials have been paid has been submitted.
4. A bill of sale to the municipality for the facility in its entirety has been submitted.

SECTION 403 Sanitary Sewer System Design Standards

403.01 Scope

These standards establish minimum requirements for the design of sanitary sewer systems in the municipality.

403.02 Plans and Specifications

A. The plans and specifications shall be prepared under the supervision of a Civil Engineer registered in the State of Michigan and each sheet of the plans shall have imprinted thereon the seal of that Engineer.
B. Plans shall consist of a cover sheet showing a plan view of the complete job, split plan and profile sheets and standard detail sheets. Sheet size shall be 22" x 36" or 24" x 36".
C. Elevations may be based on local datum approved by the municipality when USGS datum is not available. Elevations based on an assumed datum shall not be acceptable. Bench marks shall be established at least every 1200' and shown on the plans. Street names and widths, subdivision names, lot numbers, geographic location, legend, list of quantities and other pertinent information shall be shown on the plans.
D. Existing and proposed ground levels, stationing, size and class of pipe, and elevations shall be shown on profiles.

E. There shall be a note on the plans requiring that all work is to be done in accordance with the municipality's current standards and specifications.
F. Ten sets of final plans and specifications shall be submitted to the municipality for approval. The municipality will, after approval, forward 3 sets of plans and specifications to the Michigan Department of Public Health with a request for a construction permit. No work shall be started until this permit has been received. Additional plans shall be provided as required by other approving agencies.
G. "As-Built" dimensions to wyres shall be shown from the nearest manhole downstream.

403.03 Design Considerations

A. Generally, laterals shall be located on the south or west side of all streets 7 1/2' off property line, and on the opposite side of the street from the water mains. Location of sewer's relative to property lines shall be shown on the plan.
B. Sand backfill shall be required full depth of trenches under streets, driveways, parking areas, and sidewalks. The sand fill shall extend a minimum of 3' outside of metal unless otherwise required by county or state specifications.
C. The maximum width of trench at the top of the pipe shall be as follows:

Diameter of Pipe	Width of Trench
8" - 12"	30"
15" - 24"	O.D. + 24"
48" and over	O.D. x 1.5

D. Generally, no sewer shall be less than 8' in depth to the invert below the crown of the road.
E. Force main shall be designed for 100 psi minimum working pressure. Materials and design shall be considered separately when plans are submitted for approval.
F. Capacities

1. Sewer capacities shall be based on a minimum of 400 gallons per capita per day for laterals and 250 gallons per capita per day for submains. These amounts are for peak loads and include infiltration.
2. Trunk sewer capacities will be given special consideration.
3. Trunk lines shall be sized as design dictates plus allowance for future extensions.
4. Laterals shall be a minimum of 8" in diameter.
5. Pipe sizes other than 8" minimum shall be no larger than necessary to meet capacity requirements. Increased size of pipe to take advantage of flatter grade will not be permitted.

G. Velocities

1. A minimum design velocity of 2' per second shall be required with pipe flowing full.
2. Whenever possible, velocities shall exceed the minimum as set forth.
3. The maximum velocity, when the pipe is flowing full, shall be 12' per second.
4. The following are minimum slopes for each size of pipe: n=.013.

Sewer Size	Minimum Slope
8"	.40
10"	.28
12"	.22
15"	.15
18"	.12
21"	.10

H. Maximum Depths

The maximum depth for any sanitary sewer from the proposed grade to the top of the pipe for various classes of pipe are as follows:

Size	C200 & C14X	C76 C1.II	C76 C1.III	C76 C1.IV	C76 C1.V	NCPI 1-63
8"	19"					11"
10"	19"					11"
12"	30"	8"	13.5"	37"		11"
14"						7"
15"	12.5"	6"	8.5"	15.5"	36"	7"
16"						8"
18"	14.5"	7"	9.5"	18"	50"	8"
20"						8"
21"	15.5"	7.5"	10"	19"	54"	8"
24"	16.5"	8"	11"	21"	60"	7.5"

Size	Asb. Cem. Cl. 1500	Asb. Cem. Cl. 2400	Asb. Cem. Cl. 3300	Asb. Cem. Cl. 4000	Asb. Cem. Cl. 5000	NCPI 2-63 C-14XM
8"	11"	37"				37"
10"	11"	37"				37"
12"	11"	37"				37"
14"	8"	10"	18"	24"	54"	32.5"
15"						12.5"
16"	6"	10"	18"	24"	54"	
18"		9"	14.5"	20"	31"	14.5"
20"		8"	12"	16"	24"	
21"						15.5"
24"		7.5"	10.5"	14.5"	21"	16.5"

NOTE: The above tables are predicated on a Class B (first class) bedding, composed of stone which will pass a 3/4" sieve but will be retained on a 1/4" sieve.

J. If a class of pipe is to be used at depths greater than those specified, special provisions shall have been approved by the municipality prior to construction. If concrete encasement is used, the concrete shall be minimum 3 bag wet-mix.

K. Manholes

1. Generally, manholes shall be placed less than 300' apart. The maximum distance between manholes shall be 350' for sewers less than 24" in diameter. Special consideration will be given to the spacing of manholes on sewers 24" in diameter or larger.
2. Manholes shall be placed at every change of grade, direction, and pipe size, and at the end of each sewer line. Generally, manholes shall be placed at street intersections.
3. Drop manholes shall be used whenever a sewer enters the manhole at an elevation of 24" or more above the manhole invert. When such an invert differential occurs at an existing manhole a drop connection shall be installed.

4. The same hydraulic gradient shall be maintained through a manhole whenever there is a change of pipe size.

5. Whenever there is a change of direction in excess of 30 degrees, an allowance of 0.10' in grade shall be made for loss of head through the manhole.

6. The minimum inside diameter of all manholes shall be 48".

7. The wall thickness of manholes constructed of various materials and to various depths shall be as follows:

Depth	Brick	Precast	Manhole Block
less than 10'	8"	5"	8"
10' - 16'	12"	5"	12"
16' - 25'	16"	5"	12"

8. Precast manholes shall be set on brick laid to a minimum height of 12" above the crown of the pipe for all sewers greater than 15" in diameter. Brick shall have a 1/2" minimum of 1:2 1/2 cement mortar coat on the outside surface.

9. All manholes shall rest on an 8" thick poured or precast concrete slab. This slab shall extend a minimum of 6" beyond the outside diameter of the manhole. Precast concrete slabs shall be placed on 4" of compacted sand.

10. A minimum of 8" and a maximum of 20" of brick shall be placed on the cone section of all precast or manhole block manholes.

11. All block or brick manholes shall be plastered on the outside with 1/2" of 1:2 1/2 cement mortar.

12. Manhole covers shall be set to proposed grades if in a road right-of-way and 6" above proposed grades at other locations. Proposed manhole cover grades shall be shown on plans unless otherwise approved by the municipality.

13. The joint between a precast manhole section and the manhole base shall be set in a full bed of mortar.

14. Joints between precast manhole sections shall be premium joints, with inside and outside pointing.

L. Inverted Siphons

1. The minimum pipe diameter for inverted siphons shall be 6". The minimum number of pipes for each inverted siphon shall be 2, and the minimum velocity 3' per second at design flow.

2. Inverted siphon pipe shall be a minimum 150 psi internal working pressure, either cast iron pipe or asbestos cement pressure pipe.

M. Pumping Station

1. The minimum number of pumps in a pumping station shall be 2, each being equal to maximum design flow. The minimum diameter of the discharge lines shall be 4".
2. Each pump station shall have a wet well of adequate size to permit proper functioning of the pumps.
3. All pump station plans will be considered separately.

N. Sewer Taps and House Leads

1. House leads shall be defined as the sewer running between the lateral and the property line.

2. Clay pipe and fittings shall conform to specifications noted for clay sewer pipe.

3. Concrete pipe and fittings shall conform to specifications noted for concrete sewer pipe.

4. Asbestos cement pipe - Branch connections shall be monolithic cast fittings installed with the sewer, or shall be cast iron saddle bolted to the sewer in accordance with the manufacturer's recommendations.

5. All house leads shall be a minimum of 6" in diameter.

6. In new subdivisions, all house leads shall be constructed to the property line before the streets are surfaced. The maximum depth of the leads at the property line shall be 10'.

7. Risers with stoppers shall be installed on all sewers 12' in depth or more to a point 10' below the street grade.

8. House leads shall not be installed closer than 10' to water service lines.

9. Storm water systems such as footings drains or downspouts shall not be connected to any part of the sanitary sewer system.

P. Materials

1. Sewer Pipe
a. Clay pipe shall conform to ASTM C200, NCPI 1-63 or NCPI 2-63.
b. Concrete pipe shall conform to ASTM C-14X, ASTM C 76, or C-14XM.
c. Asbestos cement pipe shall conform to ASTM C438.

2. Manholes

a. Concrete for bases and poured structures shall have a compressive strength of 3000 psi in 28 days and a minimum of 5 sacks of cement per cubic yard. Slump shall be 2" to 4". Aggregates shall be approved by the municipality.

b. Brick shall be grade MA conforming to the requirements of the "Standard Specifications for Sewer Brick", ASTM C32.

c. Motor block shall meet ASTM requirements for load bearing concrete masonry units C-90-52.

d. Mortar for laying brick or block and plastering outside of structures shall be composed of 1 part patented mortar and 2 1/2 parts masonry sand (2MS, MDSH Specifications).

e. Precast manholes shall be of the eccentric cone type with steel reinforcement, conforming to ASTM C 478 with 5" wall.

f. Manhole steps shall be 1" cast iron or high grade aluminum with foot recess suitably scored to provide a nonslip surface.

g. Manhole frame and cover shall be East Jordan Iron Works No. 1040 or approved equal with Type A lids at low points. Type B lids may be used where surface water cannot enter. Lids shall contain lettering as required by the governing authority.

3. Joints

Joint material shall be:	Bell & Spigot Pressure grouted Plastic Rubber	Tongue & Groove Rubber	Asbestos Cement Rubber
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SECTION 404 Construction of Sanitary Sewers

404.01 Specification by Reference
Whenever reference is made to specifications other than those contained herein, said specifications shall apply and be binding as if fully repeated herein. The current editions of these specifications shall apply unless otherwise noted.

404.02 Fundamental Requirements

A. Minimum cover over mains shall be 5' including crossings through ditch sections. When mains parallel ditches, they shall have 6' of cover below shoulder of the road to insure cover for house leads.

B. During the progress of the work, vehicular and foot traffic shall be accommodated except as otherwise specified herein and access to fire hydrants, water and gas valves shall be provided. Gutters, drains or other waterways shall be kept open or other provisions made for removal of storm water.

C. All work shall be carried on in a neat and satisfactory manner and interference with the normal flow of traffic shall be kept to a minimum. Driveways and streets disturbed shall be replaced as soon as each crossing is made. No street may be closed overnight. Proper lights and barricades shall be provided and necessary safety precautions shall be observed at all times. (If it is necessary to close a street the local police and fire departments shall be notified, "Street Closed" signs shall be erected and a suitable detour shall be designated.) Traffic control signs shall be maintained at all times.

water level below the excavation subgrade. Drainage or discharge lines shall be connected to adjacent public storm water drains or extended to nearby water courses wherever possible. In any event, all pumping and drainage shall be done without damage to any highway or other property, public or private, and without interference with the rights of the public or private property owners.

404.10 Pipe Bedding
Pipe bedding shall be defined as that material placed from a minimum of 4" below the pipe to the centerline of the pipe. Pipe bedding shall be stone which will pass a 3/4" sieve, but will be retained on a 1/4" sieve unless otherwise approved by the municipality.

404.11 Concrete Cradle
Concrete cradle shall be constructed of 1500 lb. concrete, having a minimum thickness of 4" under the pipe and extending up the sides of the pipe equal to 1/4 its outside diameter.

404.12 Laying of Sewer
Pipe shall be laid from the lower end of sewer upstream. The use of brick, lumps of clay, wood, etc. to level the pipe will not be permitted. Pipe shall be rammed "home" and if joints do not remain tightly closed, a cable and winch, or other approved means, shall be used to maintain a tight joint.

Each pipe shall be inspected for possible defects before being placed in the trench. Joint surfaces shall be free of earth or frozen matter. All pipe shall be laid with bell ends up grade, to line and grade as called for on the plans. Each pipe as laid shall be checked. The trench shall be excavated to provide equal clearance on both sides of the pipe. After the pipe is set, care shall be taken in backfilling so as not to disturb its line or grade.

404.13 Construction In Fill Sections
Where it is necessary to lay pipe in a fill area, unstable or unsuitable material shall be removed and slopes steeper than 1 to 2 shall be stepped before fill material is placed. The embankment shall be of suitable material of 1 to 2 fill slopes and shall be placed in layers not to exceed 1' and shall be compacted to 100 percent of maximum density as determined by the AASHTO T-99 Method, to the top of the pipe. The embankment shall be not less than 5 diameters plus 4' wide at the invert of the pipe and shall be continued up to provide not less than 1' of cover over the pipe.

404.14 Backfilling
Unless otherwise directed, all excavations shall be backfilled at least to a point 6" above the pipe immediately after installation.

A. Backfill Material
All backfill material shall be free from cinders, ashes, refuse, vegetable or organic matter, boulders, rocks or stones, or other materials which in the opinion of the municipality are unsuitable.

B. Backfilling Above Bedding
From the center of the pipe to a point 1' above the top of the pipe, the trench shall be backfilled with sand placed in 6" layers and thoroughly compacted by mechanical tamping.

C. Backfilling Around Structure
All backfill placed within 3' of manholes or other underground structures shall be approved sand, placed in 1' layers.

D. Drives, Parking Areas, Streets and Sidewalks
The trench backfill under drives, parking areas, streets and sidewalks shall be of approved sand placed in layers not to exceed 6" in thickness and compacted to 95 percent of maximum density as determined by the AASHTO T-180 Method. This backfill shall include the area to the outside of shoulders in ditch sections and 3' outside curbs in curb sections, and thence down on a ratio of 1/2 to 1 slope, unless otherwise required by the governmental body or agency having control of the streets, etc. In all cases, this fill shall be constructed to an elevation determined by the proposed grade of the surfacing. Except under sidewalks, the top 8" shall be 22A aggregate (MDSH Designation) thoroughly compacted in 4" layers and maintained until the original type of surfacing is properly placed. For sidewalks, the sand backfill shall be constructed to the existing sidewalk grade and maintained until the sidewalk is placed.

E. Backfilling To Grade
Backfilling of trench shall not fall more than 100' behind pipe laying operation unless otherwise permitted by the municipality. Where compaction of the backfill as noted above is not required by the plans or specifications, excavated material shall be placed in the trench to proposed elevation. Unless otherwise specified or shown on the plans, backfill so placed shall be mounded to allow for settlement, and later graded to conform to original levels and appearance. Excess spoil shall be removed from the site. Wasting of spoil by grading over existing right-of-way will not be allowed. Any settlement of trenches occurring within 1 year after completion of the contract shall be filled and regraded immediately at the request of the municipality.

F. Backfilling In Freezing Weather
No frozen material shall be buried more than 4' below the final elevation of ground.

404.15 Restoration
Street or road surfaces disturbed shall be replaced with original type materials or as may be required by the authority having jurisdiction.

Street signs, mail boxes, fences, private drives, parking areas, sidewalks, culverts, ditches and other improvements shall be restored to original or better condition in a manner acceptable to the municipality as soon as possible.

Where grass areas maintained as lawns are disturbed and designated to be restored by seeding, the fill shall be compacted and seeded and mulched as follows:
Work shall consist of placing 3" of top soil, preparing the soil, application of fertilizer, sowing seeds of the mixture specified, rolling the soil and placing mulch over the area seeded.

A. After the areas to be seeded have been brought to the required grade, the soil shall be loosened and mixed to a depth of 4" until it is in a friable condition. Chemical fertilizer of a 10-6-4 grade shall be applied at the rate of 620 lbs. per acre and worked into the soil 48 hours prior to seeding.

B. Seed as specified below shall be sown at a rate of 100 lbs. per acre for lawn areas and 40 lbs. per acre for other areas. After seeding the area shall be rolled.
Seed mixture for lawn areas that have been disturbed and for adjacent back slopes shall be as follows:

Class A	Merion Blue	60 percent
	Red Top	20 percent
	Perennial Rye	20 percent
Class B	Perennial Rye	30 percent
	Kentucky Blue	20 percent
	Creeping Red Fescue	30 percent
	Alsike Clover	20 percent

C. Mulch consisting of clean straw or hay shall be spread over the surface of the seeded area in a uniform thickness at the rate of 2 tons to the acre.
The final result shall provide a well-rooted growth resistant to normal washing or drought.

Unless otherwise specified, lawns that are uniform blue grass, fescue, etc., and free from weeds, shall be restored with comparable sod. The sod shall be placed on 2" of clean, weed free topsoil. All sod that does not grow shall be replaced. Shrubs or other plantings that would interfere with construction shall be removed and replanted in a final location acceptable to the property owner or removed to another location and "heeled in" until such time as they can be replanted in their original location. The work shall be done in a manner acceptable to the municipality.

All lawns, shrubs and trees that fall to survive shall be replaced. All lawns, shrubs and trees shall be watered for a period of 30 days after planting.

404.16 Maintenance of Traffic and Drainage
During the progress of the work, vehicular and foot traffic shall be accommodated except as otherwise specified herein and access to fire hydrants, water and gas valves shall be provided. Gutters, drains or other waterways shall be kept open or other provisions made for removal of storm water.

404.17 Public Utilities
Any work on utilities, such as removal and replacement thereof (including chlorination and pressure testing of water mains), shall be done only with the agency or department in charge of the utility being fully informed 48 hours in advance of the work and having an inspector on the site. Opening and/or closing of gate valves shall be performed by, or with permission from the local water department. (Relocation of sanitary sewers or water mains must be approved by the governing body and requires a permit from the Michigan Department of Public Health.)

404.18 Road Crossings
All road crossings shall be done under permits issued by and shall be in accordance with the requirements of the governmental body or agency having jurisdiction over the road to be crossed. Notice as required shall be given to said governmental body or agency before work starts.

404.19 Railroad Crossing
A sewer crossing a railroad shall be in strict accordance with railroad specifications.

404.20 Materials
A. Sewers
All sewers installed shall be of the type and class indicated on the drawings. Sewer pipe shall conform to the following specifications:
Clay Pipe: ASTM C200, NCPI 1-63 or NCPI 2-63.
Concrete Pipe: ASTM C-14X, ASTM C 76, or C-14XM.
Asbestos Cement (Asbestos cement sewer pipe shall meet the crushing strength based on ASTM 3-Edge Bearing Method.): ASTM C438.
All pipe shall have class and date of manufacture conspicuously marked on each length by the manufacturer.

B. Sewer Joints
Joints shall be rubber, neoprene or plastic and shall be one of the following unless otherwise called for on the plans or supplemental specifications:
1. Tylox with modified grooved tongue
2. Wedgelock Type No. 1
3. "Ring-Tite"
4. Uni-Lock

5. "O" Ring with modified grooved tongue
6. Weld-Tite
Pipe joints on sewer 30" diameter and larger shall be pointed up on inside with mortar after backfilling has been completed.

C. Manholes
1. All manholes shall rest on an 8" thick concrete base. This base shall protrude a minimum of 6" beyond the outside diameter of the structure. Precast concrete bases may be used if a uniform bearing is provided. Concrete for bases and poured structures shall have a compressive strength of 3000 psi in 28 days and a minimum of 5 sacks of cement per cubic yard. Slump shall be 2" to 4". Aggregates shall be approved by the municipality.
2. Precast reinforced concrete manhole sections shall conform to ASTM C 478 pipe with 5" wall. Joints between precast sections shall be made using rubber gaskets.
3. Brick shall be grade MA conforming to the requirements of the "Standard Specifications for Sewer Brick", ASTM C32.
4. Mortar block shall meet ASTM requirements for load bearing concrete masonry units C-90-52.
5. Mortar for laying brick or block and plastering outside of structures shall be composed of 1 part patented mortar and 2 1/2 parts masonry sand (2MS, MDSH Specifications).
6. Water for concrete or mortar shall be clean and fresh, free from oil, acids, or organic matter.
7. Manhole steps shall be 1" cast iron or high grade aluminum with foot recess suitably scored to provide a nonslip surface.
8. The manhole frame and cover shall be as noted on the plans. Lettering on cover shall be as required by the governing authority.

D. Rejected Materials
All material rejected by the municipality shall immediately be removed from the site of the work.

404.21 Connections
The junction of 2 or more sewers shall be made in strict conformance with the plans, with all work done with special care and in a workmanlike manner. When connections are made with sewers carrying sewage or water, special care must be taken that no part of the work is built under water; a flume or dam must be installed and pumping maintained, if necessary, and the new work kept dry until completed and any concrete or mortar has set up.

404.22 Infiltration
It shall be the intention of these specifications to secure a sewer system with a minimum amount of infiltration. Maximum allowable infiltration shall be 500 gallons per mile per inch of diameter of sewer per 24 hour day at any time for any individual run between manholes, and shall not exceed 250 gallons per mile per inch of diameter for the overall project.
Where sewers are laid above the water table and there is any question regarding the quality of performance, the municipality may require that the leakage be determined by an infiltration test with a 2' minimum internal head.

404.23 House Leads
Unless shown on the plans to the contrary, all bell and spigot pipe sewer house lead connection openings shall be a standard "Y" branch with outlet 6" in diameter. The openings shall be closed by a disc with a seal manufactured for the type of pipe being used.
The termination of all leads at the property line shall be marked by placing an iron pin within a 4" tile or measured distances to 2 adjacent lot corners shall be provided.

404.24 Certification
Certification that all materials meet the requirements set forth in the plans and specifications shall be submitted to the municipality. Source of the certification shall be approved by the municipality.

404.25 Site Cleanup
Before work shall be considered ready for final inspection, all equipment, debris and waste materials shall be removed from the work areas. Driveways, sidewalks, or streets damaged during the course of the work shall be repaired or replaced to a condition equal to, or better than that which existed prior to construction. Fences, culverts, shrubs, trees, lawns, retaining walls, and incidental items that are removed or damaged shall be replaced or repaired in a workmanlike manner, substantially the same or better than they were prior to construction.

404.26 Construction
A. Brick or block used in structures, shall be plastered on the outside with at least 1/2" of mortar in a manner that will seal the structure completely. Brick shall be thoroughly wetted and laid in a full bed of mortar. Plastering shall be performed in conjunction with the laying of the brick or block. The laying of brick shall never be more than 6 courses ahead of the exterior plaster.
B. All brick and concrete work shall be properly cured and protected from freezing for a minimum of 48 hours. When the temperature is 40 degrees F. and falling, brick, mortar, and concrete shall be heated to a minimum temperature of 60 degrees F.
C. The joint between a precast manhole section and the manhole base shall be set in a full bed of mortar.

404.27 Final Acceptance
A. After completion of the project and before it is accepted by the municipality, an "As-Built" plan, acceptable to the municipality, shall be submitted by the proprietor, showing exact locations of all wells, manholes, etc. ("As-Built" dimensions to wyes shall be shown from the nearest manhole downstream), with detailed ties to all surface appurtenances. Where the project is divided into various sections for construction purposes, an "As-Built" plan shall be submitted for each section upon completion of that section. After completion of all sections, an "As-Built" plan shall be submitted covering the entire project as a whole. "As-Built" plans shall be reproducible.
B. The municipality will assume operation of the system when the following requirements have been met by the proprietor:
1. "As-Built" drawings of the system, acceptable to the municipality, have been submitted.
2. Waivers of lien from all contractors, suppliers and engineers have been submitted.
3. A sworn statement by the proprietor that all bills for labor and materials have been paid has been submitted.
4. A bill of sale to the municipality for the facility in its entirety has been submitted.

SECTION 405 Sidewalk Design and Construction
405.01 Acceptance
When construction is completed, the municipality shall receive evidence that the plans and specifications have been complied with before building occupancy permits are issued.

405.02 Specifications by Reference
Whenever reference is made to specifications other than those contained herein, said specifications shall apply and be binding as if fully repeated herein.

405.03 Fundamental Requirements
All work shall be carried on in a neat and satisfactory manner and in accordance with normal flow of traffic shall be kept to a minimum. No street may be closed or partially barricaded without prior permission from the authority having jurisdiction. Proper lights and barricades shall be provided and safety precautions shall be observed at all times. Traffic control signs shall be maintained at all times.

405.04 Work Included
This work shall consist of a single course of concrete constructed on a prepared and approved subgrade to the width and thickness noted on the plans.

405.05 General Provisions
A. All sidewalks shall project 1" above finished grade.
B. The sidewalk shall slope 1/4" per foot toward the drainage side.
C. All sidewalks shall be 4" thick except driveway crossings which shall be 6" thick. Sidewalks shall be 5' wide unless otherwise approved by the municipality.

405.06 Construction
A. All unstable subgrade material shall be removed and replaced with porous Grade A material or sand. Where tree roots interfere with construction they shall be trimmed and cut, with care taken not to permanently harm or kill the trees, to allow for proper construction of walk.
B. The sidewalk base shall be a minimum of 4" of compacted sand or porous Grade A (MDSH Designation) material. This requirement will be omitted in areas of existing granular subgrade material.
C. Forms shall be clean and straight, composed of wood or metal. The forms shall be staked to line and grade in a manner that will prevent deflection or settlement. Forms shall be oiled before placing concrete. Forms may be removed the following day after placement of concrete providing there is no damage to this concrete pound or backfilled immediately after form removal.
D. The materials shall meet the requirements specified in Division 7 of the MDSH Specifications as follows:

Cement	7.01
Fine Aggregate, 2NS	7.03
Coarse Aggregate, 6A	7.02
Water	7.11
Premolded Joint Fillers	7.16

The concrete mix shall be air-entrained, designed to provide a compressive strength of 3500 psi at 28 days, a slump of from 1 1/2" to 3", and shall contain a minimum of 6 bags of cement per cubic yard.

E. The subgrade shall be thoroughly wetted and the concrete deposited thereon to the proper depth. It shall be spaded along the forms, compressed and struck-off flush with the top of the forms. The surface shall be floated with a steel float, edges and joints properly tooled, and then finished with a wood float or brush to provide a nonslip surface.
F. One inch transverse expansion joint shall be placed every 50' the full depth of the sidewalk, at driveways, and where the new walk abuts existing concrete structures. Contraction joints shall be formed every 5'. All joints shall be constructed at right angles to the centerline of the sidewalk.
G. The concrete shall be cured with white pigmented membrane curing compound,

wet burlap or by other methods approved by the municipality as soon as surface moisture has disappeared. Concrete shall not be placed on frozen ground or placed when the temperature is below 40 degrees F. without providing artificial heat as required by the municipality.

H. Suitable barricades and lights shall be placed around all newly poured walk in order to protect it from damage by pedestrians, vehicles and others until concrete has hardened. Barricades at driveways shall be left in place for a minimum of 5 days.

SECTION 406 Standard Specifications for Municipal Wells and Pump Houses
406.01 Wells
A. General
1. In a subdivision developing its own source of water nothing less than one 6" standby well and one 12" production well shall be constructed. These wells shall be between 20' and 100' apart. An accurate driller's log of each well shall be maintained and furnished to the Municipal Water Department. The Municipal Water Department shall be kept informed whenever drilling is to proceed and any representative of the Municipality who may be present shall have full authority to inspect the drilling operation. All drilling will be done by cable tool method.
The Municipality may elect to permit or require the Proprietor to connect to the overall Municipal Water Distribution System in lieu of developing a separate well supply. In this event a connection fee will be charged commensurate with the situation.

2. The wells shall have capacities equal to or exceeding the following: Two and one half gallons per minute per residence from production well and 1 gallon per minute per residence from a standby well.
3. No wells supplying water to a Municipal system shall have less than 30' of casing, measured from the ground to the top of the screen.
4. Before a test well is started, site approval must be obtained from the Michigan Department of Public Health. A copy of this approval shall be filed with the Municipal Water Department at least 2 weeks before drilling commences.
5. After the driller's log and pumping tests are available for the test well, these will be submitted to the Municipal Water Department in quadruplicate for forwarding to the Michigan Department of Public Health requesting approval to construct a production well. Drilling of production well shall not be started until the construction permit is procured.
6. A complete chemical analysis sample will be obtained and submitted to the Michigan Department of Public Health for each new well. This is to be taken just before the end of the test pumping. Treatment will be required if, in the opinion of the Municipality, the analysis so indicates. The extent and type of treatment will be at the discretion of the Municipality.

B. Materials
1. Well casings shall be new and conform to ASTM specifications A53 or A72.
2. Screens shall be Johnson Everdur or approved equal and the slot opening shall be determined by the manufacturer from a sieve analysis. Based on the sieve analysis, a slot opening and spacing to meet optimum screen capacity shall be provided.
3. Hydropneumatic water pressure tanks shall be in accordance with ASME specifications and shall be clearly stamped when delivered to site of installation.
4. Piping, valves and fittings shall conform to the applicable ASTM specifications.

C. Well Tests
1. All test wells shall have a pumping test of 8 hours duration at a steady pumping rate. All production wells shall have a pumping test of 24 hours duration at a steady pumping rate unless a time reduction is approved by the Municipality. To obtain a reduced test duration, test well performance and well logs, to be used to determine the justification of any reduction, must be provided to the Municipality.
2. Pumping rate for the 8" test well shall be, at as high an amount as possible, as determined by the driller and Municipality.
3. Well Log shall show the following data:
Accurate location of well
Elevation of ground at top, based on USGS.
Total depth of well
Static water level
Length and size of column, bowls and tail pipe
Length of air line
Size of orifice
Length and description of screen
Screen openings

4. Readings of amount of drawdown and pumping rate shall be taken as follows:
Every minute for the first 10 minutes.
Every 2 minutes for the next 10 minutes.
Every 5 minutes for the next 20 minutes.
Every 10 minutes for the next 20 minutes.
Every 30 minutes thereafter for the duration of the test.
5. For the test well, readings on rate of recovery shall follow the same schedule and shall continue until fully recovered or for the length of the pump test, whichever comes first.
6. For the production well, in addition to the above requirements, the drawdown and recovery on the test well shall be taken on the same schedule and shown on the log. Recovery schedule for this test shall be altered to provide for reading every 30 seconds for the first 3 minutes of recovery.
7. If required by the Michigan Department of Conservation or the Municipality, for the determination of the safe maximum capacity of the production well, additional pumping tests may be required as specified at that time.
8. Quadruplicate copies of driller's log, straight hole test, and of a topographic

map of the well site shall be submitted to the Municipality for forwarding to the Michigan Department of Public Health, requesting approval of proposed pump installations and issuance of construction permit.

406.02 Pumps and Appurtenances
A. Pumps shall be deep well vertical turbines, 1750 RPM unless otherwise authorized by the Municipality, with water lubricated bearings enclosed impellers. The pumps shall be equipped with a close coupled shaft and non-return ratchet. Manufacturer's certified test curves and physical dimension sheets shall be furnished to the Municipal Water Department for approval. Pumps shall be subject to field testing to assure performance in accordance with specifications. Motors shall be G.E., Westinghouse, U.S. or approved equal with Class A2 windings. Final H.P. requirements will be determined after analysis of the manufacturer's curves.
B. Altitude lines and direct reading gauges, shall be installed at the elevation of the discharge pipe centerline for each well. One hand air pump shall be furnished with the installation.
C. A 3" pipe stub and cap shall be welded to the casing of the 12" well at an angle not to exceed 30 degrees with the vertical to provide access for an electrical depth gauge. This shall protrude from the base a sufficient length to permit easy removal of the cap.
D. A 5" tail piece shall be attached to the bottom of the pump bowls. In no case shall the tail piece be figured to act as part of the pump column to put the pump on a suction lift.
E. Adequate pump column shall be furnished to allow for a drop in the water table. F. The pumping head shall be determined by adding the depth of the water level below the centerline of the discharge pipe at the rated capacity to the midpoint of the operating pressure range converted to feet of head (generally 116 ft. or 50 psi).
G. All electrical work shall be done in accordance with the current rules and regulations of the National Board of Fire Underwriters, the local and State codes and the rules of the power company serving the municipality. A main disconnect shall be installed before all electrical equipment.
H. Final inspection and acceptance of the electrical installation will be made by the Municipal Electrical Inspector.
J. Selection of type of starter shall conform to the requirements of the company furnishing power. Starter shall be provided with a built-in switch to provide "Hand", "Off" and "Automatic Control".
K. All electrical equipment shall be as manufactured by the Square D. Company, or approved equal.
L. Automatic alternating control of starting of pumps shall be provided by the use of B/W controls or other approved equipment. These controls shall be installed on the front of the tank in such a manner that the electrodes can be removed for cleaning while the tank is under pressure.
M. Approved type running time meters shall be installed on the electrical panel for each pump.

406.03 Tank, Piping and Accessories
A. Pressure tanks shall be in accordance with the ASME Standards and shall be tagged with ASME Code. Tanks shall be of adequate size, 125 psi test, with manhole; a 2" bottom drain and valve pipe to outside of building, sufficient taps with proper valving for sight glass, controls, relief valve, compressor, etc., and flanged stubs of sufficient size for the feed and discharge lines. Tanks shall be made of steel plate shell and 5/16" plate ends. Pressure tanks shall be housed.
B. The well house piping shall be so arranged that either one of the wells or the pressure in the main. Blow-offs shall be installed on either one of the wells or the minimum valved lines which are to be extended to a point outside the exterior wall of building and properly capped. Provision shall be made on outside of pump house to prevent soil erosion due to discharge of the blow-offs. The contractor who installs all interior piping shall also install the main feeder line to a point a minimum of 10' outside of the building, and maintain a minimum cover of 5'.
C. Steel "Dresser" couplings shall be used on discharge lines from both pumps and from the tank.
D. An air compressor of adequate size shall be installed, 3' to 4' above the floor, equipped with self-unloader.
E. Generally the operating pressure range shall be 40 psi to 60 psi. If there is considerable change in ground elevation throughout the system, the pressure range shall be adjusted accordingly.
F. An adequate air pressure relief valve shall be provided at the pressure tank, vented to the outside at ceiling height. This shall be set at 10 psi above the high operating pressure, generally 70 psi. An air pressure relief valve shall be installed before each pump check valve.
G. Propeller type meters as manufactured by Sparling shall be installed on the discharge line of all pumps so as to accurately record the pump flow. The meters shall be located between the pump and the blow-off line after the check valve.

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SECTION FOUR

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H. No meter shall be directly connected to any fitting. A straight pipe of length recommended by the manufacturer shall be installed on each side of the meter.
J. Three 1/2" test cocks shall be provided, 1 at each pump head and 1 at the tank discharge. Discharge from test cocks shall be downward. A 3/4" tap shall be made in the feeder - main 5' outside the building and 3/4" K copper line run underground to a sample point inside the building. Sample point shall have a 3/4" gate valve, nipples, tee, elbows, hose bib, and chrome plated sample cock. The minimum cover for this line shall be 5'.

K. Pressure gauge shall be not less than 4" diameter, 0 to 150 psi range, with a shut-off valve and pulsation damper.

L. After the installation is complete, the wells and tank shall be sterilized by the pump contractor. The water must be declared safe by the County or the Michigan Department of Public Health with 2 safe samples taken 24-hours apart.

M. The tank and all piping and blow-off lines in the well house and outside shall be given 1 prime coat of approved rust inhibiting paint and 1 coat approved color coded piping enamel.

N. Pumping equipment, piping and all appurtenances shall be so situated that there will be a minimum of 48" clearance between interior of walls and said equipment. Clearance from floor to bottom of tank shall be a minimum of 24" and clearance from ceiling to top of tank shall be a minimum of 12".

O. Vertical inlet and discharge piping through the floor of the pump house shall be tied with steel rods, and thrust. Interior joints other than flanged joints shall be tied with steel rods. Necessary pipe supports shall be provided as required by the Municipality.

P. Check valves with outside weight and lever or outside spring and lever shall be installed in the discharge line of each well.

406.04 Chlorine and Phosphate Treatment Specifications

A. Equipment List

1. The chlorinator shall be of the gas solution feed type and shall be capable of automatic control. The chlorinator shall be a Wallace & Tiernan, Inc., V-Notch chlorinator, Series A-731, 35 watt chlorine heater, and equipped with a 10 lb. per 24 hour chlorine meter.

2. One chlorine booster pump (220-440V) 3 phase AC motor, base plate, coupling and pump accessories. Booster pump shall be APCO centrifugal type, capable of operating the W & T, A-731 chlorinator to feed 100 lbs. of chlorine per 24 hours against 100 psi line pressure and complete with bypass fittings, and H-O-A magnetic starter and adjustable pressure relief valve.

3. One set of chlorinator accessories including chlorine solution hose (150 psi) vent hose, extra gaskets, lubricant, vent screen, wrenches, gauges, a spare 50 lb./day meter and necessary equipment.

4. One Fairbanks-Morse 1,000 lb. portable beam platform scale.

5. Two sets of chlorine gas fittings include 1 2-tank manifold, 2 flexible connections, and 2 tank valves.

6. One main connection complete with corporation cock and silver tube. Corporations shall have iron pipe threads.

7. Phosphate pumps shall be sized after well pump capacity is determined.

8. Each phosphate pump shall come equipped with the necessary pulley, belts, belt guard, suction and discharge tubing, suction strainers and weights, metal mounting stands, anti-siphon valve, etc. All tubing and fittings shall be compatible to other equipment now in use.

9. Two 55-gallon polyethylene self-supporting solution tanks with cover for the phosphate solution.

10. One Residual Chlorine Test Kit shall be Taylor Enslow Slide Comparator Base #532, slide #1212A-9 color, Standards 0.1 - 4.0 ppm.

11. One canister type "Clearvue" gas mask with carrying case.

12. One propeller type fan with automatic outside shutter. Fan motor shall be sealed and capable of changing air 15 times per hour. Fan shall be controlled with the same switch that controls all lights in this pump house.

13. All motors, except booster pump, shall be 110 volt 60 cycle.

14. The supplier of the above equipment shall furnish supervision of installation and testing of all equipment. Also he shall advise the contractor of the control desired by the Municipality to achieve proper proportioning by the V-Notch in the chlorinator.

15. Phosphate and booster pump shall have an H-O-A switch located near each pump.

16. Any deviations shall have approval before installation.

B. Equipment Installation

1. The chlorinator booster pump shall be wired to the well pump starters and shall incorporate an H-O-A switch.

2. The phosphate pumps shall be wired to the well pump starters and shall incorporate an H-O-A switch.

3. The chlorine room shall be equipped with a heater (gas only), capable of maintaining a temperature of 60 degrees F.

4. The exhaust fan shall be mounted approximately 1' above the floor. There shall also be an approved louvered opening installed in 1 of exterior walls of the chlorine room and located approximately 6' above the floor.

5. The chlorine room shall have a ceiling-hung 100 W lamp.

6. Chlorine room shall have a screened floor drain.

7. All openings around piping shall be sealed. The common walls and ceiling between the chlorine room and pump room shall be sealed on both sides.

8. The chlorine room shall have a window installed on inside wall in such a manner that the front of the chlorinator and fan can be observed without entering chlorine room.

406.05 Pump House

A. All pump houses shall be compatible, in the opinion of the Municipal Building Department, to surrounding design and construction, and shall conform to the Municipal Building Code and Ordinances.

B. All pump house walls shall be of masonry construction and facing will be compatible with that used for house construction. Roofs may be of frame construction and shall be hip or gable style. All sash shall be either steel or aluminum. Roof shingles shall be 3 in 1 white.

C. Finish floor shall pitch to and run to 4" diameter drains which have a screen free-fall outlet at outside of pump house. Floor drains will not be allowed to be connected into underground sewers or leaching beds. Finish floor elevation shall be a minimum of 6" above finish grade.

D. Suitable watertight and insulated hatches shall be provided in the roof and ceiling directly above each pump. These shall be removable from inside only, secured by means of hook and eye inside well house. Hatch shall be covered with sheet metal and painted to match shingles.

E. Pump house ceiling shall be covered with 2" of FHA approved insulation enclosed with 1/4" tempered Masonite or approved equal. This shall be removable from under the hatches.

F. Adequate automatic heating shall be provided to maintain a temperature inside of not less than 40 degrees F. at the floor, when the outside temperature is -20 degrees F. Heating shall be by natural gas, where available; otherwise, L.P. Gas heaters may be used. Heating shall be controlled by a low range thermostat. Oil heaters will not be permitted. L.P. Gas containers shall have the capacity necessary to serve a complete heating season without refilling. All thermostats shall be a degree reading type.

G. Adequate lighting shall be provided. A duplex electrical outlet shall be provided at each pump.

H. All walls, inside and outside woodwork, ceiling, tank cradles and pump foundations, shall receive 2 coats of paint both sides. All solution and air piping shall be installed below the ceiling.

J. Doors shall be hollow-metal flush type swing doors without windows as manufactured by Fenestra, Inc., or equal as approved by the Municipality, complete with hardware and frame as specified by the manufacturer. Sidewalk shall be provided between chlorine room door and main door.

K. Locks for all doors shall be #662 Dexter. This is mandatory, to provide for future master-keying by the Municipality.

L. Removable 1/4" mesh #13 gauge wire screens mounted on 2" (2 x 2 x 1/8) angle iron frames shall be provided over all windows. Screens shall be so mounted that they cannot be removed from the outside. There shall be removable door headers provided at the service door for each pump.

M. The pump house lot shall be properly graded, fertilized and seeded in an area 40' around the pump house. A bituminous drive shall be brought from the existing road to a point 20' past the property line. From this point a 20' stabilized gravel drive shall be constructed to the pump house, properly drained and with a maximum grade of 10%.

N. An approved louvered ventilator of adequate size shall be provided in the pump room door at floor level to provide for drainage in the event of massive water loss inside the pump house.

P. Final inspection and acceptance of the pump house will be made jointly by the Municipal Building Inspector, the Water Superintendent and Municipal Engineer.

406.06 Acceptance for Operation

When the system has been approved for rendering water service, the Municipality will assume the responsibility for operation and maintenance upon the execution of the standard form of "Operating Agreement" as approved by the Municipality.

SECTION 407 Standard Specifications for Subdivision Grading

407.01 All final plats, when submitted for approval, shall be accompanied by 3 sets of subdivision grading plans which shall have been prepared under the super-

vision of, and each sheet of which shall bear the seal of, a civil engineer registered in the State of Michigan.

407.02 Two sets of plans for streets and road drainage, approved by the County Board of Road Commissioners, and 2 sets of plans for storm water facilities approved by the County Drain Commissioner, shall also accompany this submittal.

407.03 Except where specifically waived by the governing body in the interest of health, safety and general welfare of the community each lot shall drain to a street and the grading of lots to permit drainage to and along a rear lot line shall not be permitted.

407.04 The minimum slope of any part of any lot shall be 1' per 100'.

407.05 The subdivision grading plan shall:

A. Be superimposed on an up-to-date contour map prepared on United States Geological Survey Datum. This drawing shall be prepared at a scale of no less than 1" equal to 100' with a contour interval of 2'.

B. Show, in plain view, all proposed storm drainage facilities (ditches, sewers, and/or County Drains) with proposed drainage easement lines.

C. Show elevations and locations of all points within the proposed lots where change in the direction of slope of land is proposed. This is to define the lines between high points from which the land is proposed to slope in opposite directions.

D. Show stationing of centerline of street surfacing.

E. Show the stationing of each front lot corner, projected at right angles, or radially, from the centerline of the street surfacing.

F. Show the proposed elevation of each lot corner (front and rear). The elevation of a lot corner at the intersection of street right-of-way lines shall be approximately 0.6' above the higher proposed top-of-curb elevation opposite this point.

G. Include grading controls for the 1/2 right-of-way (existing and proposed) of existing roads abutting the proposed development. This shall include the proposed cross section of the proposed right-of-way and profiles along the road centerline, the proposed right-of-way line, and the proposed ditch line.

H. Include finish grade elevations for all proposed dwellings.

I. Show proposed elevations to the nearest 0.1'.

K. Include elevations of lakes and other bodies of water with date elevation was obtained. If a lake level has been legally established, such elevation shall also be shown on the plan.

Article V. FEE SCHEDULE

The following Fee Schedule is hereby established for proceedings under this Ordinance:

FUNCTION PERFORMED	FEE
A. Pre-Preliminary Plat Review:	\$1.50 per lot with a \$75.00 minimum
B. Tentative Approval of Preliminary Plat	\$4.00 per lot with a \$200.00 minimum
C. Final Approval of Preliminary Plat	\$2.50 per lot with a \$150.00 minimum
(1) Where subdivision has a central water system	\$3.00 per lot with a \$100.00 minimum
Add Pumping and Treatment	\$500.00
(2) Where subdivision has sanitary sewage facilities	\$3.50 per lot with a \$100.00 minimum
D. Final Plat approval:	\$125.00
E. Extension of Period of Tentative Approval of Preliminary Plat	50% of Original Fee
(1) Where no modification, changes or deviations from original Preliminary Plat	
(2) Where there are modifications, changes or deviations from Original Preliminary Plat	100% of Original Fee
F. Extension of period of Final Approval of Preliminary Plat	
(1) Where no modification, changes or deviations from Original Preliminary Plat	50% of Original Fee
(2) Where there are modifications, changes or deviations from Original Preliminary Plat	100% of Original Fee

Article VI. VALIDITY

Should any Section, clause or provision of this Ordinance be declared by a court of competent jurisdiction to be invalid, the same shall not affect the validity of any other portion, section clause or provision of this Ordinance other than the part so declared to be invalid.

Article VII. EFFECTIVE DATE

This Ordinance shall become effective on and after February 15, 1968.

Passed by the Independence Township Board on the 6th day of February, 1968.
Howard Altman
Independence Township Clerk

"Flint and Frizzen" and "Piety Hill Pine"

new additions at Antique Village

By Faith Poole

"Flint and Frizzen", Gunsmith and Blacksmith, is the latest shop to open at Antique Village in Keatington. Proprietor of the shop is Bruce McArthur of Clarkston. One of the fourteen quaint shops now open in the village, his gun-smith shop will be located near "Piety Hill Pine", the wood-working operation managed by Paul Bennett, also of Clarkston.

McArthur plans to open the shop officially on Friday. He will do custom work of all types including lamp brackets, fireplace fixtures as well as wrought iron fences and gates, and hinges. He will also be doing various kinds of implement repair. He makes his own designs and will also make those according to customer wishes.

An accomplished blacksmith, McArthur states that he is not a farrier (one who shoes horses). He is a graduate of Clarkston High School, class of 1966. For the last three years that he attended High School he worked as an apprentice with the late Art Lawson in his gun shop. He then went to Colorado where he attended Trinidad State Junior College in Trinidad, Colorado. While there he worked with a blacksmith. He also spent a period of four months last year in Opa-Locha, Florida where he worked with Art Lawson Jr. as a gunsmith.

Other recent additions to the Village include "The Porcelain Palette" with proprietors Dolores Moorhead and Charlotte Myers, both of Birmingham who

specialize in hand-painted fine china. Items from tiny hand-painted thimbles and jewelry to larger china pieces grace their attractive display area. Delores also teaches the art of china painting in her home and both girls do custom work in the shop.

"Blue Daisy" Antiques is operated by Ohmey Packard, while Pat Johnson is the proprietor of "Hodge Podge-Antiques and otherwise".

All of the shops are distinguished by their rural setting. Across the road, the original tenant houses have been restored and decorated as



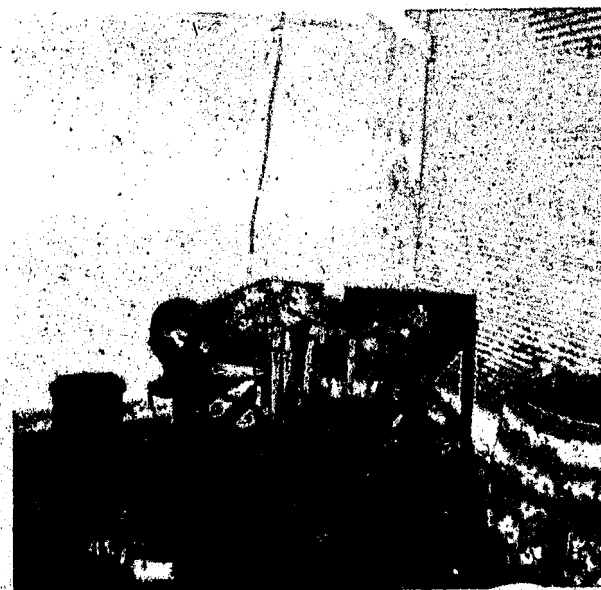
Three new shops occupy this remodeled building at Antique Village, Keatington. "Blue Daisy Antiques", "The Porcelain Palette" and "Antiques and Otherwise".



Paul Bennett is working on a sign which will hang over "Flint and Frizzen, Gunsmith and Blacksmith." That shop will be a neighbor to Paul's own "Piety Hill Pine" at Antique Village.



The new showroom at "Piety Hill Pine" forms attractive display area for Spice cabinets, candle sconces, spoon holders, all hand-made in the work shop there. Other rooms are used to display the larger items such as dry sinks, harvest tables and accent pieces.



This forge has been installed near the shop in which Bruce McArthur will do his blacksmith work. In the foreground is the anvil.



Charlotte Myers of Birmingham is one of two partners in "The Porcelain Palette", a shop specializing in hand-painted fine china. They sell a variety of items and also teach china painting.



"A look at Clarkston on a frosty morning"

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Advances in heart surgery will be reviewed

Clarkston area residents will be given the opportunity to hear up-to-date reports on the fascinating recent advances in heart surgery and treatment from experts in the field at 8 p.m. February 16.

The occasion will be the Michigan Heart Association's Public Heart Forum at Pontiac Northern High School, 1051 Arlene, in Pontiac.

Theme of the program is "Heart Attack --- Survival 1968". There will be three featured speakers.

Dr. Allen Silbergleit, a cardiovascular surgeon on the staff of St. Joseph Mercy Hospital

in Pontiac, will speak on heart transplants and other advances in surgical techniques which are helping heart patients.

Dr. Silbergleit took postgraduate work at the University of Minnesota with Dr. Christian Barnard, who performed the recent heart transplants in South Africa, and Dr. Norman Shumway, who led the heart transplant team in Palo Alto, California.

Dr. Michael C. Kozonis, a cardiologist at St. Joseph Mercy Hospital and president elect of the Michigan Heart Association, will speak on modern care and treatment given to heart

patients in hospitals today.

Dr. Murray B. Levin, an internist at Pontiac General Hospital, will explain how and why people have heart attacks and outline some preventative measures.

The audience will also be asked to play a game called "Risko." It's designed to show the participant's heart attack risk factor rating.

The heart forum is cosponsored by the Michigan Heart Association's Heart Information Center and The Pontiac Press. Tickets for the event are free.

They may be obtained in the main lobbies of St. Joseph Mercy Hospital, Pontiac General Hospital and the Pontiac Press and the Pontiac Area United Fund, 132 Franklin Blvd., Pontiac. Tickets are also available at the Heart Information Center in Birmingham and Crittenton Hospital in Avon Township.

Tickets may be obtained through the mail by sending orders to HEART, 277 Pierce, Birmingham, Mich. 48011.

Persons without tickets will be admitted, but those with tickets will be seated first.

Michigan Heart Association is a member of the Pontiac Area United Fund.

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This week

We welcome Roy Haskins to our sales staff

Roy is the former owner of Haskins Chevrolet-Olds agency in Clarkston. If you're looking for a new Pontiac, stop by and see Roy or any of the Sales personnel at Jack Haupt's.



Roy Haskins

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"Then Peter opened his mouth, and said, Of a truth I perceive that God is no respecter of persons: But in every nation he that feareth him, and worketh righteousness, is accepted with him." Acts 10:34, 35.

By Reverend H. C. Cranston
 Drayton Heights Free Methodist Church

The Constitution of the United States provides equality for every citizen regardless of race, creed, or color. The Bible is clear that God is no respecter of persons. His invitation is universal. To men of every race, climate, and nation he invites "... take of the water of life freely". (Revelation 22:17) God's love for all men is expressed in John 3:16 "For God so loved the world that he gave his only begotten Son that whosoever believeth on him should not perish but have everlasting life."

Those who understand God's love and impartiality are eager to exercise this spirit in daily dealings with others. They recognize the need for equal opportunity and absence of prejudice. One has given the following incident. Driving down the highway with a friend, they came to an intersection where a big truck and semi-trailer had collided with a small foreign car. Immediately the friend commented, "That's the trouble with these little cars." Actually, the foreign car had only a dented front fender, and was probably not at fault. But prejudice had colored the judgment. Similar prejudices often separate denominations, nationalities, and races. Race prejudice has been one of the persistent problems of society from

early ages. Nor has man as yet been successful in his attempts to eradicate this loathsome disease from the social organism.

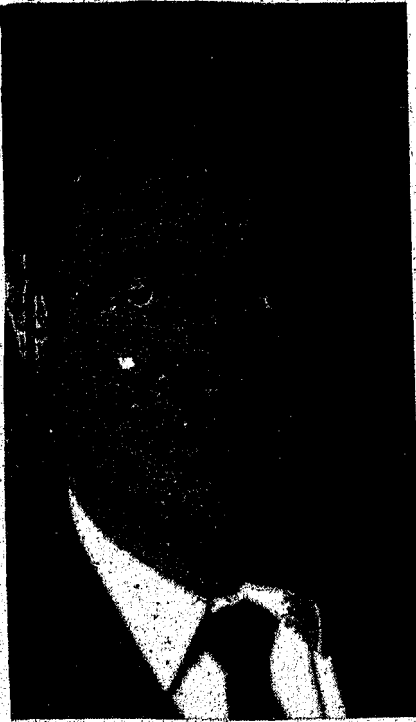
God's acceptance is given to all who fear him and work righteousness. This fear is not understood by the normal concept of fear. The Amplified New Testament renders this "reverential fear of God." In addition to reverential fear God's acceptance is to those who treat him with worshipful obedience and living uprightly. But, man alone does not have the ability to give due reverence to God and live righteously. God gave his Son on the cross to make this possible. By his death, burial, and resurrection we may become new creatures with new capacities to love, to fear with reverence, and to live righteously. Paul the Apostle wrote to the Church at Corinth "Therefore, if any man be in Christ, he is a new creature: old things have passed away; behold, all things are become new." The Bible teaches that one may be in Christ when he receives Christ into his own life. (St. John 1:12)

Brotherhood can be realized when two individuals are brought into the same relationship with God who, himself, is no respecter of persons, but accepts all men on an equal basis.

THIS MESSAGE SPONSORED BY THE FOLLOWING BUSINESS ESTABLISHMENTS

- Howe's Lanes**
6696 Dixie Highway
- Roy Brothers**
6756 Dixie Highway
- O'Dell Drugs**
10 South Main
- Berg Cleaners**
6700 Dixie Highway
- Beattie Motor Sales**
5806 Dixie Highway
- Beach Fuel & Supply**
5738 M-15
- Tally Ho Restaurant**
6726 Dixie Highway
- Al's Waterford Hardware**
5880 Dixie Highway
- Clarkston Standard Station**
148 North Main

- Taylor's 5&10**
5797 Ortonville Rd.
- Wonder Drugs**
5789 Ortonville Rd.
- Kessler-Hahn**
6673 Dixie Highway
- Clarkston Cafe**
18 South Main
- Bob's Hardware**
27 South Main
- Jack. W. Haupt**
North Main
- Deer Lake Lumber**
7110 Dixie Highway
- Savoie Insulation Inc.**
6561 Dixie Highway
- Goyette Funeral Home**
155 North Main



New on sales staff

Potential Ford truck buyers who stop at Beattie Ford Sales are being greeted by Jim Smith, a recent addition to the sales staff, who specializes in heavy truck sales. He has lived in the area all his 34 years and owned his own trucking firm for 11 years. He was also with General Motors Truck and Coach engineering and has taken all courses available at Ford Marketing Institute. Married, Smith and his wife now make their home at 1178 Orchid, Pontiac. He saw service in the Navy and is a member of Ford's Salesman's 500 club and the Rochester Elks Club.



Viewing the white pastures of his temporary home on M-15 is this fourteen foot high cow. The attention getter is twenty feet long and will be in front of the Richardson's Farm Dairy through Thursday, before moving on. Mrs. A. Nowakowski just happened to be the first customer to greet the new arrival. With Mrs. Nowakowski is Don Vachon, the dairy's owner.

Land related items fill agenda

The Independence Township Board is going to study their charges in zoning requests. Clerk Howard Altman said at last week's meeting that the current rate is \$75.00. He said he didn't think this was high enough to cover the costs involved in handling such requests.

Township attorney Paul Mandel informed the board that they could revise their charges but "couldn't make money" on the transaction. He suggested they study the various steps in following through requests and set their fees according to costs. Mandel also told the board they could adopt a reciprocal heating code ordinance in the same manner as they did the reciprocal electrical code. That was by reference.

Supervisor Duane Hursfall said he had checked the Hullabaloo teenage dance hall on Dixie Highway and felt a permit to operate should be granted. The Hullabaloo recently changed hands and the new owners failed to apply for a permit. The request came to Tuesday's board meeting and they granted the permit.

The rezoning request for rezoning two parcels in the former Ford property northwest of Clarkston was referred back to the commission. Clerk Altman suggested a 200-ft. buffer zone be provided at the north end of Deer Lake.

Rezoning of a 43-acre parcel
Athletic Boosters support rec plan and swimming pool

There is a possibility the high school gymnasium may be used for a program of recreation for the area. At the January meeting of the Clarkston Athletic Boosters Club, Don Mauti, assistant principal of the high school, said the gym could be used on Saturdays if the program was outlined, was co-educational and properly supervised.

The club will use this as a starting place to organize Saturday recreation activities.

Other things brought out at this meeting were: payment of \$135 for mats for the gym and cheerleaders, need for more managers for little league teams, need for scraping baseball diamonds, and the swimming pool issue.

Mrs. Powell volunteered the Boosters Club as supporters of a swimming pool, which they indicated was needed for both school and community use.

The Boosters Club now has 103 members and is seeking more active members.

and another of 68 acres had previously been approved by the township planning commission and county coordinating zoning and planning committee.

Representatives of the township board, planning commission, township engineers, and owners were to walk the property Thursday to get a better picture in their minds for development of roads and construction.

In another matter related to land development, the board passed a subdivision control ordinance in line with the state's new Plat Act. The entire content of the ordinance appears in this issue of the Clarkston News.

The new ordinance sets fees for subdivisions, sets procedures for preparation and filing of plats, states regulations, defines terms, etc.

In other matters the board made an appointment to the planning committee and named six to the Youth Assistance Program.

Delton Lohf was reappointed to the planning commission, on which he is secretary, and he will serve a 3-year term. Hursfall made the appointment.

Mrs. John Bassett, Mrs. Erma Fender, Mrs. John Garlack, Mrs. Robert Lussier, Mrs. William Smith and Gordon Spelbring were those named to the Youth Assistance Program.

Nurses meet

The Oakland District Nurses' Association, Public Health Section will meet on Tuesday, February 20 at 6:30 p.m. at the Pagoda Inn in Clawson.

The program will consist of a Red Cross Mini-Drama "The Role of the volunteer R.N. in natural disaster, and civil disorder".

Seymour Lake

By Gladys Sherwood
Mrs. George Granger will entertain the Seymour Lake W.S.C.S. in her home at 5914 Woodlane Drive on Wednesday, February 21. Dinner will be served at 12:30.

Mrs. Lee McIntyre has returned home after spending two weeks with her son-in-law and daughter, Mr. and Mrs. Michael Cherweb of Springfield, Virginia. Last Thursday eve Mrs. McIntyre entertained relatives in honor of the birthday of her son Carl.

Car hits tree

A car going west on Indianwood Road on Saturday hit an icy spot as the driver rounded a curve and went off the road and crashed into a tree.

The driver was Douglas Gray of 54 E. Yale in Pontiac. Neither Gray nor his passenger were injured.

Completes

recruit training

Marine Private Steven J. Felt, son of Mr. and Mrs. Stanley J. Felt of 3669 Silver Sands, Drayton Plains, was graduated from eight weeks of recruit training at the Marine Corps Recruit Depot in San Diego.

He will undergo from two to four weeks of individual combat training and then, after leave at home, will report to his first Marine Corps Assignment.

The intensified Marine recruit training emphasizes rigid physical conditioning and survival techniques, both at sea and ashore, to develop self-confidence and endurance. Marksmanship with the M-14 rifle and 45-caliber pistol are equally stressed, and close or-

der drill instills the traditions of Marine Corps teamwork.

A thorough study of basic military subjects, hygiene, first aid and sanitation, and the customs, courtesies, history and mission of the Marine Corps serve to polish the new Marine's recruit education and prepare him to join the Marine combat forces.

GET YOUR MAILING ENVELOPES at the Clarkston News office. All sizes available.

A salute to the Boy Scouts
We hope this week you'll make it a point to stop by to see the Scouting display in our window, presented by Troop 126 of Clarkston

Our sincere good wishes to all our Scout troops and their dedicated leaders. They are a credit to the Community.

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Name committee to study boundary

Village boundaries and what to do with them, if anything, will now be studied by a citizens group. Monday night the Council named seven men, three from the village, three from the previously proposed annexation area and one from outside the township.

Such a study committee, though not with this split, was suggested by former State Rep. Lloyd Anderson at last month's council meeting at the Junior High School. His recommendations were echoed by several others in attendance that night.

In naming the committee the council asked, 1. that they elect a chairman; 2. that they have the powers to increase the committee; 3. they are asked to submit a progress report in 60 days and the final report in 90 days.

The 3 village residents are: Jerome Wilford, 91 N. Main; Norman Daniels, 73 N. Holcomb; Clifford Gardiner, 71 N. Main. The proposed annexation

area will be represented by Roy Haeusler, West side of Deer Lake; Charles Fletcher, East side of Deer Lake and Lewis E. Wint of South M-15.

Dr. Herbert Swanson has agreed to be the outside representative. He lives at 8270 Foster Road.

Wilford is the former editor of "Production Magazine" and now Vice President in charge of advertising for this publication. Daniels is resident-claim superintendent for State Farm and Gardiner is a Certified Public Accountant with Ernst & Ernst.

Haeusler is director of safety for Chrysler Corp.; Fletcher is regional sales manager for Neumatics Inc., and Wint is the owner of Lewis E. Wint Funeral Home.

Dr. Swanson is an oral surgeon with offices in Pontiac.

The council asked Haeusler to make the initial contact at setting up a meeting of the study group.

Another Day By Constance Lektzian

The Clarkston Progressives

In Jim Sherman's recent editorial he discussed the 'vote to die' - the possibility of Clarkston's withering into a neighborhood of lovely old white houses and diminishing businesses. It is a sad thought. The battle cry of the firm boundary people has been "Keep Clarkston as it's always been" and that's impossible, because it hasn't always been the same. Once it was much more progressive. Once there were far more businesses and activities going on. Now if we could go back to that -----

The settlers who came here in the first place were looking for a place to grow. This was a privilege that was denied them either because of finances or lack of land in the old country or on the eastern seaboard. They paid a dear price for that privilege once they got here. More than one young family toughed out their first Michigan winter crouched over the fire in Linus Jacob's cedarpole shanty and made a grim resolve that next winter would be different. It was a strange thing about that shanty - Butler Holcomb bought the shanty and 2000 acres from Linus but no one got around to tearing down the shanty right away. It sheltered many newcomers while their own cabins were being built and its obvious discomforts prodded them into building their own homes just a little better than they might otherwise have been.

In between stump digging, planting and building, the settlers that knew how, wrote letters. Not a lot of them for it was then a tedious uncertain process to get a letter from sender to recipient, but these pioneers wrote back home and urged and cajoled, and maybe prevarigated a smidge to get relatives and their old friends and neighbors to join them in the pleasure of carving a home out of the Michigan wilderness. For the general survival of all concerned, more people were needed - and they came.

If the influx of new people had been discouraged in recent generations, we might have kept out people whose talents and money have helped restore some of our loveliest and oldest homes.

Although there was a store and a smithy at Sashabaw Corners for a few years, there was never, in the limits of Independence Township, any other village except Clarkston. The 'square' soon filled up with businesses - blacksmith shops, liveries, general stores. Cod



Preservation of buildings such as this one put to use as a store or home would have kept the "flavor" of early Clarkston. Courtesy of Harold Goyette.

Smith set up a tinsmith shop on the spot now occupied by Bob's Hardware. Farmers waited in line outside the mill to have their grain turned into flour. Clarkston had everything to offer that was needed in those days - and the village prospered because of this.

If some of the early settlers could return today, they would be amazed at our schools (They might also be aghast at our taxes). There is very little evidence that there was any antagonism to 'book learning' among

the pioneers. They strove to increase the school terms and better the educational prospects for their children. This was particularly true if they didn't have an education themselves. One of the smartest, shrewdest men to prod an ox team into Clarkston didn't learn to read or write until he reached his middle years. He also wound up being one of the most well-to-do men in the township. He saw to it his children were well schooled and along with Bildad Phillips, he supported a pro-



Clarkston's Main Street in the late 1800's. That's Cod Smith's shop on the corner of Depot Road. Picture courtesy of Harold Goyette.

gressive school plan. Its a credit to Clarkston today that this trend for better education has continued.

It's doubtful if any of the wives and daughters of the early settlers would want to 'keep things the same.' They were grateful for any progress or innovation that came their way. The pump in the side yard and the plumbing in the backyard might look charming in an old lithograph but who would want them back? The wooden sidewalks and hitchingposts along a dirt Main Street looked quaint but no one wants them again. The sidewalks splintered and snagged shoes and clothes and the street was a bog of mud in the spring. Merchants put planks across the road at the intersections and it was a daily job because the planks kept getting buried in

the mud. When progress brought cement sidewalks and surfaced roads, no one protested.

None of the worth and flavor of the village should have to be destroyed. The old homes and barns and stores would not have to disappear in favor of twentieth century business. How much better to move a house that has historical interest than to tear it down. This may not always be practical, as in the case of larger buildings. But, if the old church, whose foundation contains rocks that Peter Addis brought over from his farm by stoneboat must be torn down, can't the building put in its place depict the Victorian age that is mirrored in most of the homes in the heart of the village? When the Federal government puts up a building, isn't it supposed to be in keeping with the surroundings?

It's too late to reach back and restore such things as the old mill or one of the typical old general stores and that's a pity - because these things would have been points of great interest. It's too late for that but maybe it's time to extend the boundaries and lengthen the ropes. It would be too bad to look around some day and discover a once active village had died in it's sleep.

Does anyone have an old picture of Sashabaw School we could borrow?

Chairmen named for dimes march

"Thousands of mothers will ring doorbells this January in Oakland County to collect funds for the March of Dimes 30th Anniversary. When a March of Dimes mother comes to your door, open your heart and give, for your gift may make the difference between life and death for a child with birth defects.

The marching mothers are grateful that they can help a child, and are grateful if their own children are healthy," Mrs. Laurie Burnette said upon her appointment as chairman of the 1968 Mother's March in Clarkston.

"I know all the women working with me feel the same way. It's a privilege to serve so worthy a cause. True, my contribution seems small when compared to the overwhelming picture, but every start must begin with the first step. Perhaps yours will be the step that will allow some unfortunate child to walk again."

Much of the money contributed to the March of Dimes goes into a vigorous research program which seeks to shed light on the complex mysteries of birth defects. Another part is earmarked for public education programs. Yet another part goes to support a countrywide network of nearly 100 Birth Defects Centers where youngsters may receive team-coordinated, specialized treatment.

When a mother rings your doorbell, give to help another mother less fortunate.

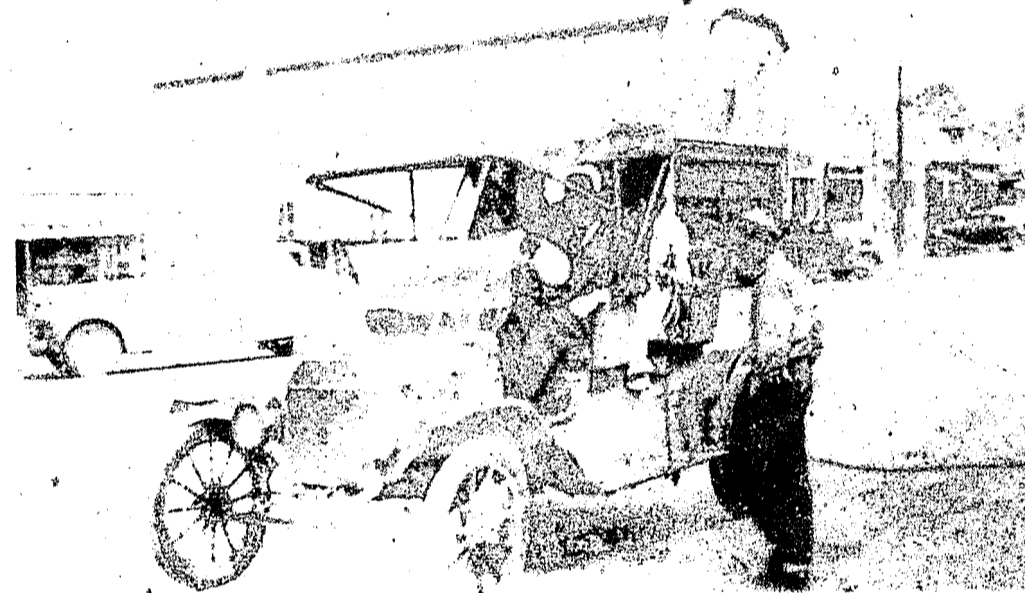
Other community leaders are Mothers March Co-Chairman, Mrs. Shirley Mahar; Kelly Burnette, School Chairman; Mark Cowen, Teen Chairman; Chief Don Beach, Canister and Poster Chairman, all of Clarkston.



This was the mighty mob of hungry Junior high school students that rushed to the foyer in hopes of finding bake sale items still available.



Racing through the Junior High School for the last couple of weeks has been one March of Dimes fund raising contest that has kept everyone on their toes, or their fellow students. Here eighth graders from Mr. Bidinger's English and Science class polish their way to victory. The winning classes will now receive the treat of a school party.



When the Garter family went into the hardware and furniture business, they replaced the old building on Cod's corner with a larger store. In the foreground is Robert Beattie in one of his antique cars. He had a car dealership in Clarkston at one time.



Bake sales proved to be a very popular method of raising funds for the March of Dimes, by Junior High students. The sales were held after school and Mr. Bidinger's advice to "hurry before they get here" was self explanatory within minutes. Mr. Bidinger, second from the left, was the teacher of the winning grades.