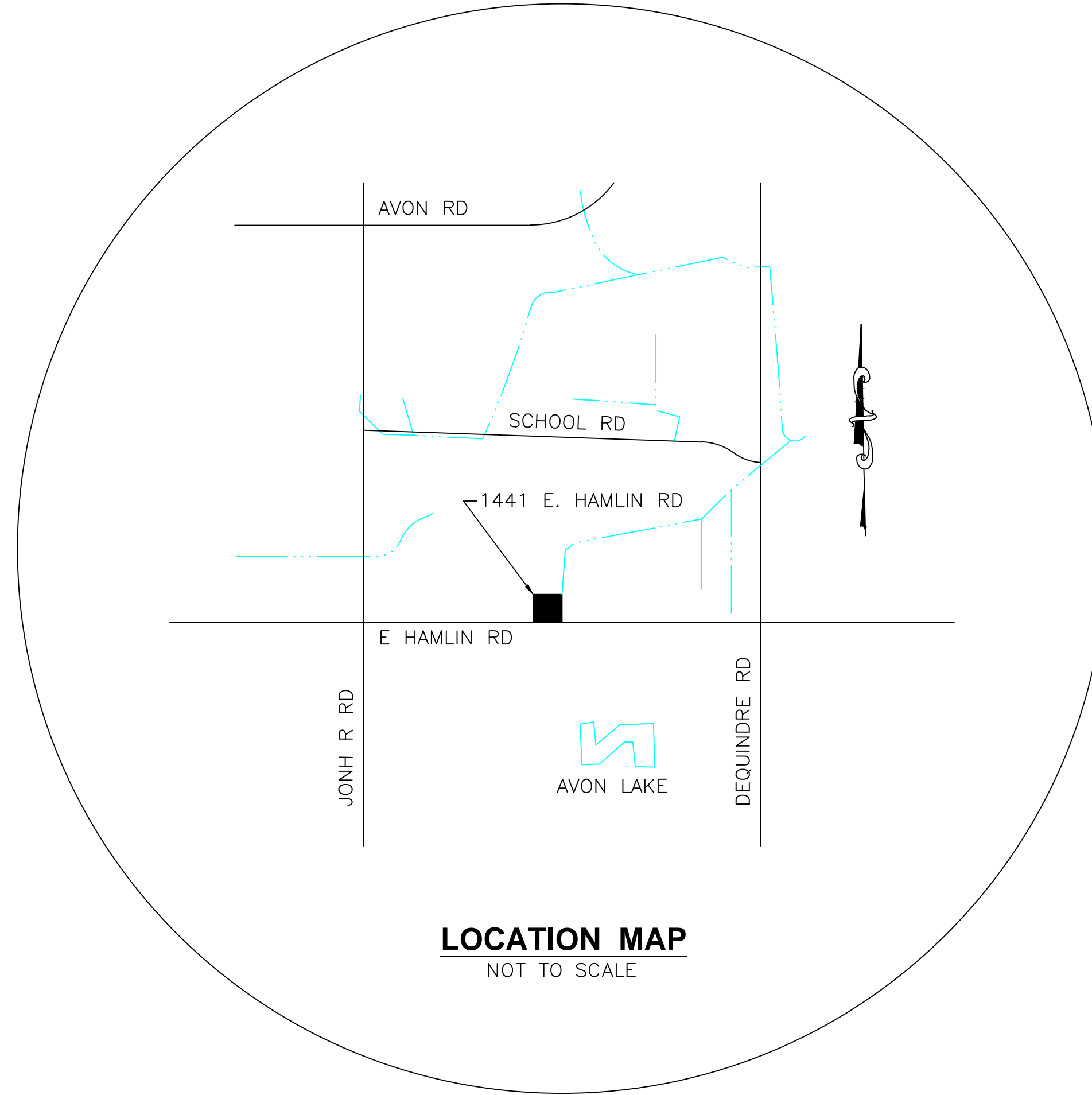


INDEX OF SHEETS

1. COVER SHEET
2. TOPOGRAPHIC SURVEY
3. SITE REMOVAL PLAN
4. SITE PLAN
5. SITE DETAILS
6. SITE DETAILS
7. WETLAND & TREE SURVEY
8. WETLAND & TREE REMOVAL AND PRESERVATION PLAN
9. TREE INVENTORY
10. LANDSCAPE PLAN
11. PHOTOMETRIC PLAN
12. PHOTOMETRIC DETAILS



LEGAL DESCRIPTION (TAX ID #70-15-24-326-004):

THE EAST ½ OF THE SOUTH 20 ACRES OF THE EAST ½ OF THE SOUTHWEST ¼ OF SECTION 24, T3N, R11E, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTH ¼ CORNER OF SAID SECTION 24; THENCE N. 89°21'00" W. 669.90 FEET; THENCE N. 00°20'20" E. 642.82 FEET; THENCE S. 88°08'40" E. 670.12 FEET; THENCE S. 00°20'20" W. 628.72 FEET TO THE POINT OF BEGINNING. SAID PARCEL CONTAINS 9.777 ACRES TOTAL AND 8.855 ACRES NET. (NO BOUNDARY SURVEY WAS PROVIDED AT THIS TIME AND ALL PROPERTY LINES AS SHOWN AND LEGAL DESCRIPTION ARE PROVIDED BY CLIENT)

TOTAL ACREAGE = 9.777
 TOTAL NET ACREAGE = 8.855

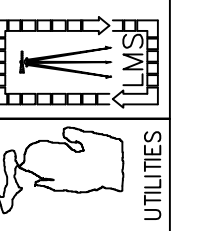
NOT TO BE USED AS CONSTRUCTION DRAWINGS

DEVELOPER:
 WIEGAND DEVELOPMENT
 37580 MOUND ROAD
 STERLING HEIGHTS, MI 48310
 CONTACT: MICHAEL KLIEMAN
 PHONE: 586.939.0840
 EMAIL: mike@jhwiegands.com

SITE PLAN BY:
 SHINK ENGINEERING, PLC
 4146 PINE GROVE ROAD
 FORT GRATIOT, MI 48059
 CONTACT: LORI M SHINK
 PHONE: 586-718-1965
 EMAIL: lmslink@yahoo.com

DATE:	5/13/19
DESIGNED BY:	LWS
DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

SHINK ENGINEERING, PLC
 4146 PINE GROVE ROAD
 FORT GRATIOT, MI 48059
 lmslink@yahoo.com
 586-718-1965



3 WORKING DAYS
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 CALL MISS DIG
 1-800-482-7171
 FOR FREE LOCATION OF PUBLIC UTILITIES

CITY OF ROCHESTER HILLS PLANNING COMMISSION	4/30/20
REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	3/2/19/20
REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	2/1/8/20
REVISIONS PER CITY OF ROCHESTER HILLS REVIEW	1/10/21/19

5	4	3	2	1
5	4	3	2	1

COVER SHEET
 WIEGAND RV STORAGE
 1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: N.T.S.
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 1 OF 12

LEGEND

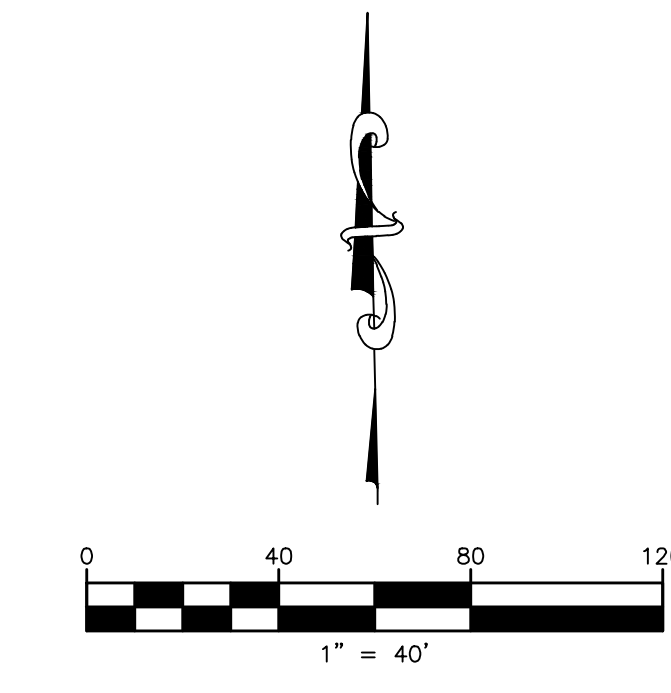
- SET IRON
- FOUND IRON
- ⊕ EXISTING TREE TO REMAIN
- ⊖ EXISTING TREE TO BE REMOVED
- ⊙ EXISTING UTILITY POLE
- ⊙ EXISTING LIGHT POLE
- ⊙ EXISTING ELECTRIC HOOK UP
- ⊙ EXISTING FIRE HYDRANT
- ⊙ EXISTING GATE VALVE
- ⊙ EXISTING WATER MANHOLE
- ⊙ EXISTING WELL
- ⊙ EXISTING CATCHBASIN
- ⊙ EXISTING MANHOLE
- EXISTING FLOW ARROW
- EXISTING R.O.W. LINE
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- EXISTING SANITARY SEWER
- EXISTING OVERHEAD WIRES
- EXISTING FENCE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND GAS MAIN
- EXISTING UNDERGROUND TELEPHONE
- EXISTING CENTERLINE DITCH/SWALE
- APPROXIMATE LIMITS OF SOIL TYPES
- EXISTING GRADE
- PROPOSED GATE VALVE
- PROPOSED WATER SEE NOTE
- PROPOSED FIRE HYDRANT
- PROPOSED CATCHBASIN
- PROPOSED MANHOLE
- PROPOSED LIGHT POLE
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- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB

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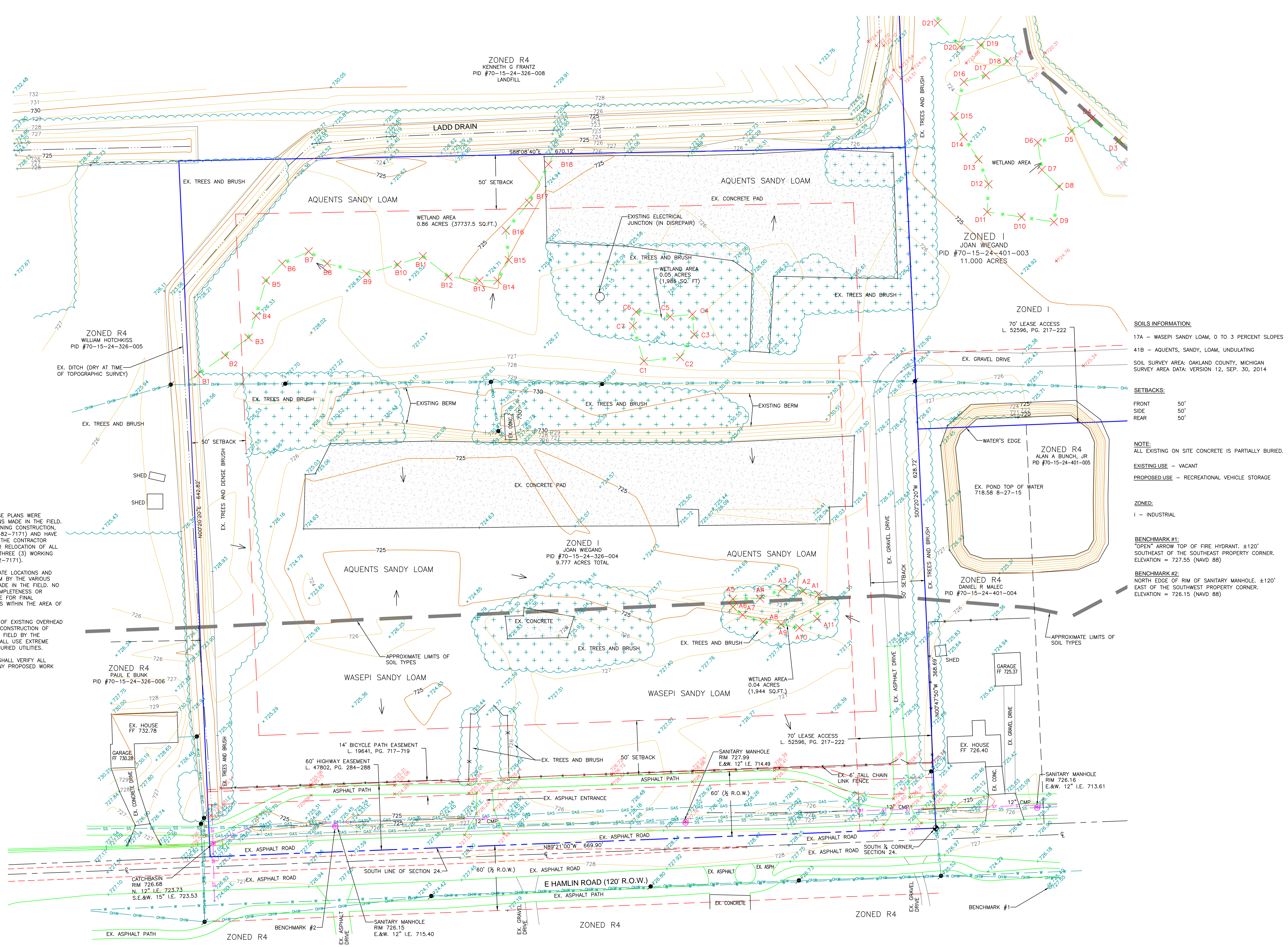
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EASEMENTS:

- 14' BICYCLE PATH EASEMENT L. 19641, PG. 717-719
- 60' HIGHWAY EASEMENT L. 47802, PG. 284-288
- OIL AND GAS LEASE LIBER 37589, PAGES 021-025
- 70' LEASE ACCESS L. 52596, PG. 217-222



SOILS INFORMATION:

- 17A - WASEPI SANDY LOAM, 0 TO 3 PERCENT SLOPES
- 41B - AQUENTS, SANDY, LOAM, UNDULATING
- SOIL SURVEY AREA: OAKLAND COUNTY, MICHIGAN
- SURVEY AREA DATA: VERSION 12, SEP. 30, 2014

SETBACKS:

- FRONT 50'
- SIDE 50'
- REAR 50'

NOTE:
 ALL EXISTING ON SITE CONCRETE IS PARTIALLY BURIED.
 EXISTING USE - VACANT
 PROPOSED USE - RECREATIONAL VEHICLE STORAGE

ZONED:
 I - INDUSTRIAL

BENCHMARK #1:
 "OPEN" ARROW TOP OF FIRE HYDRANT. ±120'
 SOUTHEAST OF THE SOUTHEAST PROPERTY CORNER.
 ELEVATION = 727.55 (NAVD 88)

BENCHMARK #2:
 NORTH EDGE OF RIM OF SANITARY MANHOLE. ±120'
 EAST OF THE SOUTHWEST PROPERTY CORNER.
 ELEVATION = 726.15 (NAVD 88)

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DATE:	5/13/19
DESIGNED BY:	LWS
DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

SHINK ENGINEERING, PLC
 4146 PINE GROVE ROAD
 FORT GRATIOT, MI 48059
 lms@shinkeng.com

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CITY OF ROCHESTER HILLS PLANNING COMMISSION
 REVISIONS PER CITY OF ROCHESTER HILLS REVIEW

5	4/30/20	1	10/21/19
4	2/19/20	2	1/8/20
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1	1/8/20	1	10/21/19

REVISIONS PER CITY OF ROCHESTER HILLS REVIEW

TOPOGRAPHIC SURVEY
WIEGAND RV STORAGE
 1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 40'
 PROJECT NO.: 2015-0015
 FILE NAME: HAMLIN-11.DWG
 SHEET: 2 OF 12

CITY FILE #19-026
 SECTION #24

2

LEGEND

- SET IRON
- FOUND IRON
- ⊕ EXISTING TREE TO REMAIN
- ⊗ EXISTING TREE TO BE REMOVED
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- ⊙ EXISTING FENCE
- ⊙ EXISTING UNDERGROUND ELECTRIC
- ⊙ EXISTING UNDERGROUND GAS MAIN
- ⊙ EXISTING UNDERGROUND TELEPHONE
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- ⊙ EXISTING GRADE
- ⊙ PROPOSED GATE VALVE
- ⊙ PROPOSED WATER SEE NOTE
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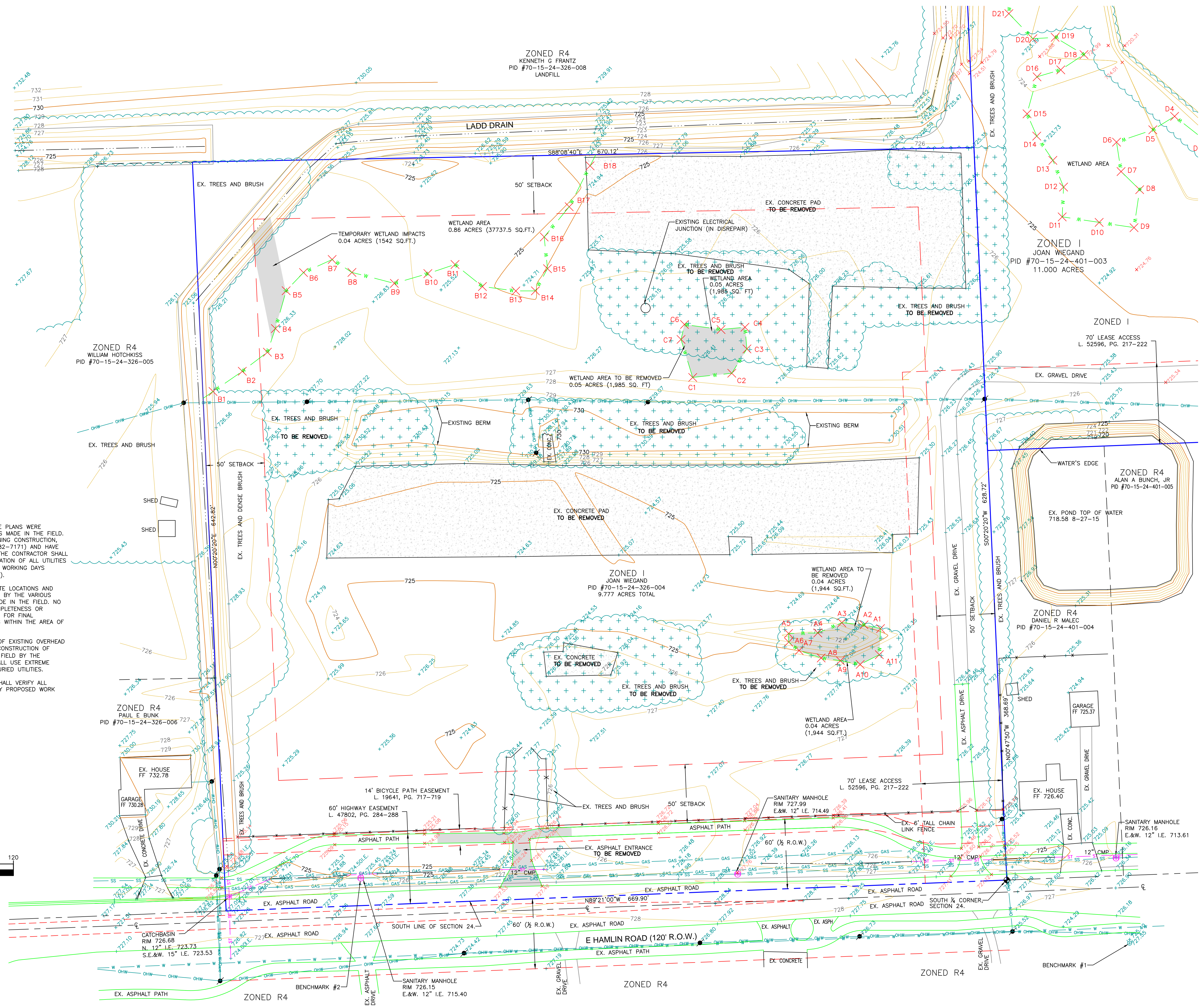
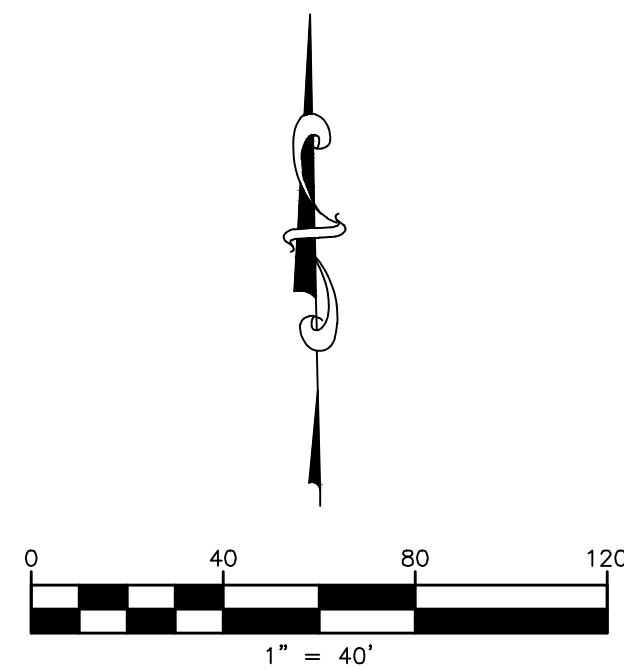
- PROPOSED FLOW ARROW
- ⊙ PROPOSED EVERGREEN TREE "A"
- ⊙ PROPOSED EVERGREEN TREE "B"
- ⊙ PROPOSED CANOPY TREE
- ⊙ PROPOSED ORNAMENTAL TREE
- ⊙ PROPOSED SHRUB
- ⊙ PROPOSED TREE & BRUSH REMOVAL

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DRAWN BY:	TW
CHECKED BY:	
APPROVED BY:	

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 lrs@shink.com
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CITY OF ROCHESTER HILLS PLANNING COMMISSION	REVISIONS PER CITY OF ROCHESTER HILLS REVIEW
1	1
2	2
3	3
4	4
5	5
6	6

SITE REMOVAL PLAN
WIEGAND RV STORAGE
 1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 40'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 3 OF 12

CITY FILE #19-026
 SECTION #24

LEGEND

- SET IRON
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EXISTING GRADE

- PROPOSED GATE VALVE
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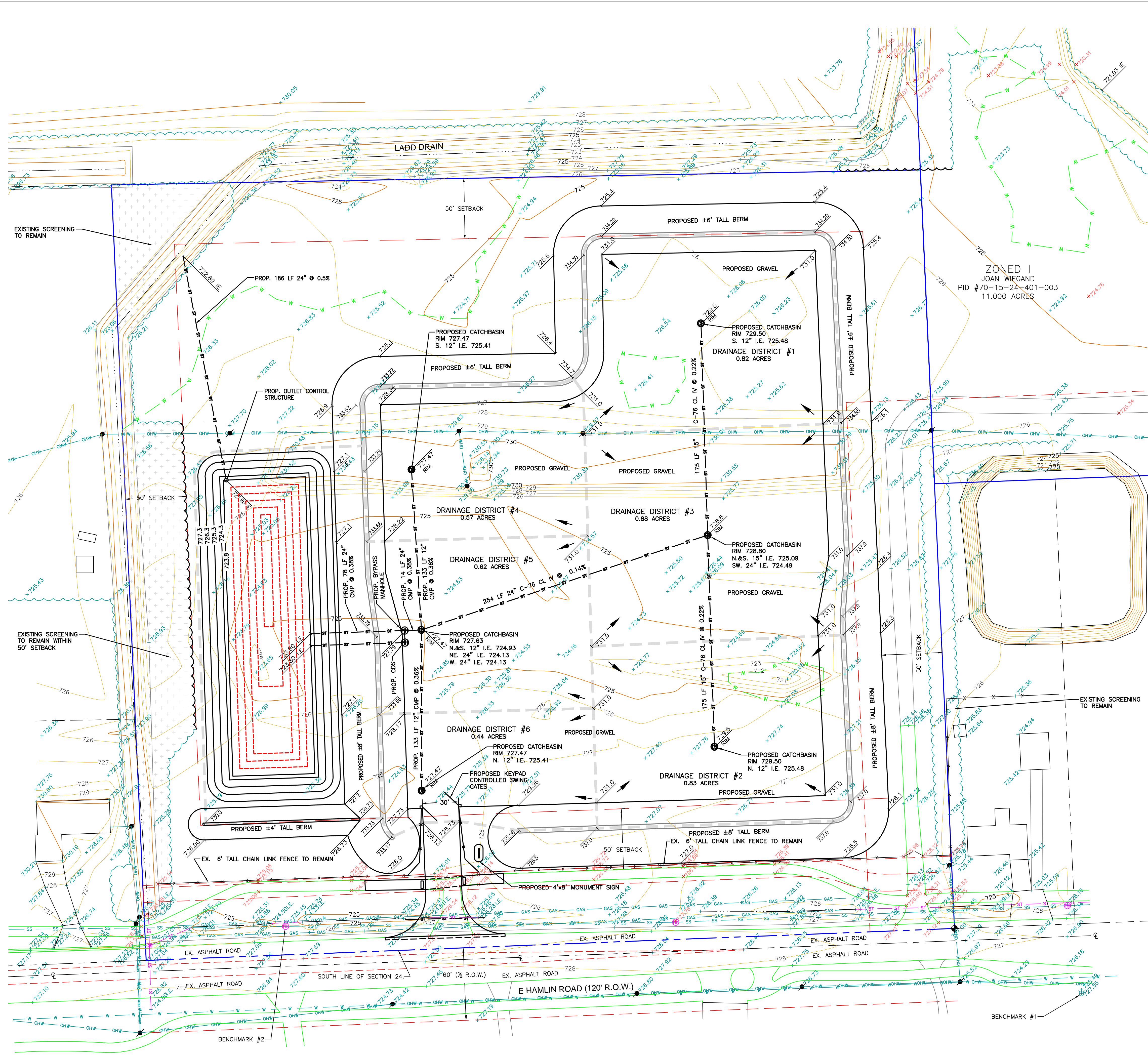
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FIRE DEPARTMENT NOTES:
FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL, AND SHALL BE POSED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO STOPPING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 503.

CONSTRUCTION SITE SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14.

OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING SAND AND/OR WATER FOR THE PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILL BURN PERMIT GUIDELINES, FIRE PREVENTION ORDINANCE CHAPTER 58, SEC. 307.6.2 & 307.6.2.3.

SETBACKS:
FRONT 50'
SIDE 50'
REAR 50'

EXISTING USE - VACANT
PROPOSED USE - RECREATIONAL VEHICLE STORAGE

ZONED:
I - INDUSTRIAL

NOTE:
OWNER SHALL MAINTAIN MINIMUM 24' WIDE AISLES FOR POLICE, FIRE AND EMERGENCY VEHICLES.

BENCHMARK #1:
"OPEN" ARROW TOP OF FIRE HYDRANT. ±120' SOUTHWEST OF THE SOUTHEAST PROPERTY CORNER. ELEVATION = 727.55 (NAVD 88)

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FORT GRATIOT, MI 48059
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1	

SITE PLAN
WIEGAND RV STORAGE
1441 E HAMLIN ROAD, ROCHESTER HILLS, MI 48307

SCALE: 1" = 40'
PROJECT NO.: 2015-0015
FILE NAME: HAMLIN-11.DWG
SHEET: 4 OF 12

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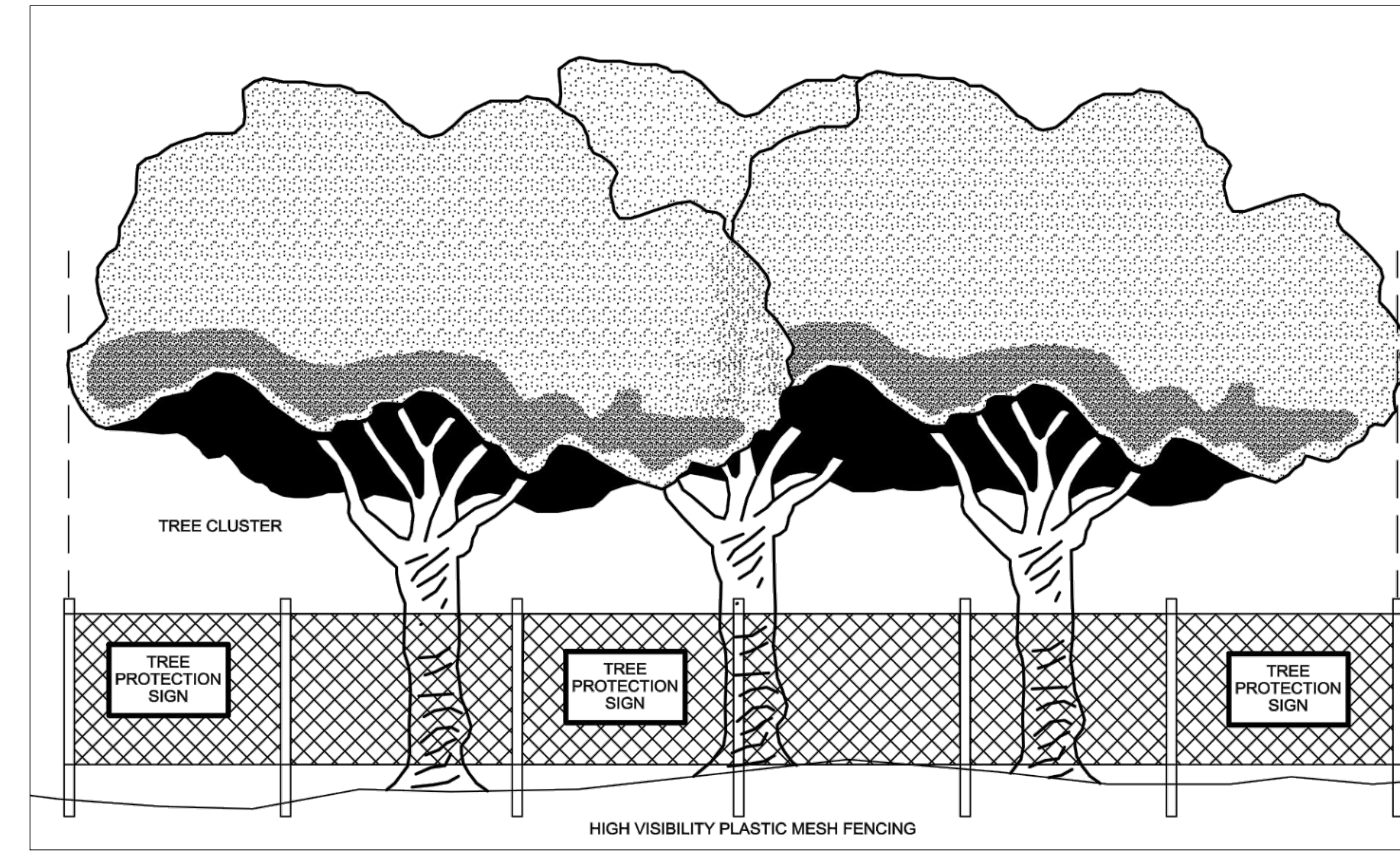
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⊕ PROPOSED ORNAMENTAL TREE
○ PROPOSED SHRUB

STANDARD NOTES

- 1. ALL CONSTRUCTION MUST BE CONFORMING TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS, OAKLAND COUNTY AND THE STATE OF MICHIGAN.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES, THE TOWNSHIP ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
3. CALL MISS DIG (1-800-482-7171) A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
4. FULL-TIME CONSTRUCTION REVIEW MAY BE REQUIRED DURING ALL PHASES OF CONSTRUCTION INCLUDING GRADING, PAVING, INSTALLATION OF SANITARY SEWER, STORM SEWERS, DRAINS, WATER MAINS AND APPURTENANCES, AND STREETS, WHERE APPLICABLE.
5. ALL SOIL EROSION AND SILT MUST BE CONTROLLED AND CONTAINED ON SITE.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.
7. EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION.
8. MEET EXISTING GRADES AT ALL PROPERTY LINES.
9. CONSTRUCTION SHALL NOT COMMENCE WITHOUT A REPRESENTATIVE OF THE OWNER PRESENT.
10. PRIOR TO CONSTRUCTION CONTRACTOR MUST HAVE IN HIS POSSESSION A COPY OF ALL PERMITS NECESSARY FOR CONSTRUCTION.
11. THE CONTRACTOR SHALL MAINTAIN HIS CONSTRUCTION OPERATIONS WITHIN THE PRESENT ROAD RIGHT-OF-WAY AND EASEMENTS AS NOTED ON THE PLANS. IN THE EVENT THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE BEYOND THESE LIMITS, HE SHALL BE RESPONSIBLE FOR MAKING WRITTEN AGREEMENTS WITH THE PROPERTY OWNERS AND WILL FURNISH SAME TO OWNER AND TOWNSHIP ENGINEER.
12. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
13. PAVED STREETS SHALL BE MAINTAINED IN A REASONABLE STATE OF CLEANLINESS.
14. FLOW IN EXISTING SEWERS SHALL BE MAINTAINED AT ALL TIMES.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE ON SITE DRAINAGE.
16. ALL DISTURBED AREAS NOT PAVED UPON SHALL BE TREATED WITH 3" OF TOPSOIL, SEED AND MULCH.
17. ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE BUILDING DEPARTMENT.

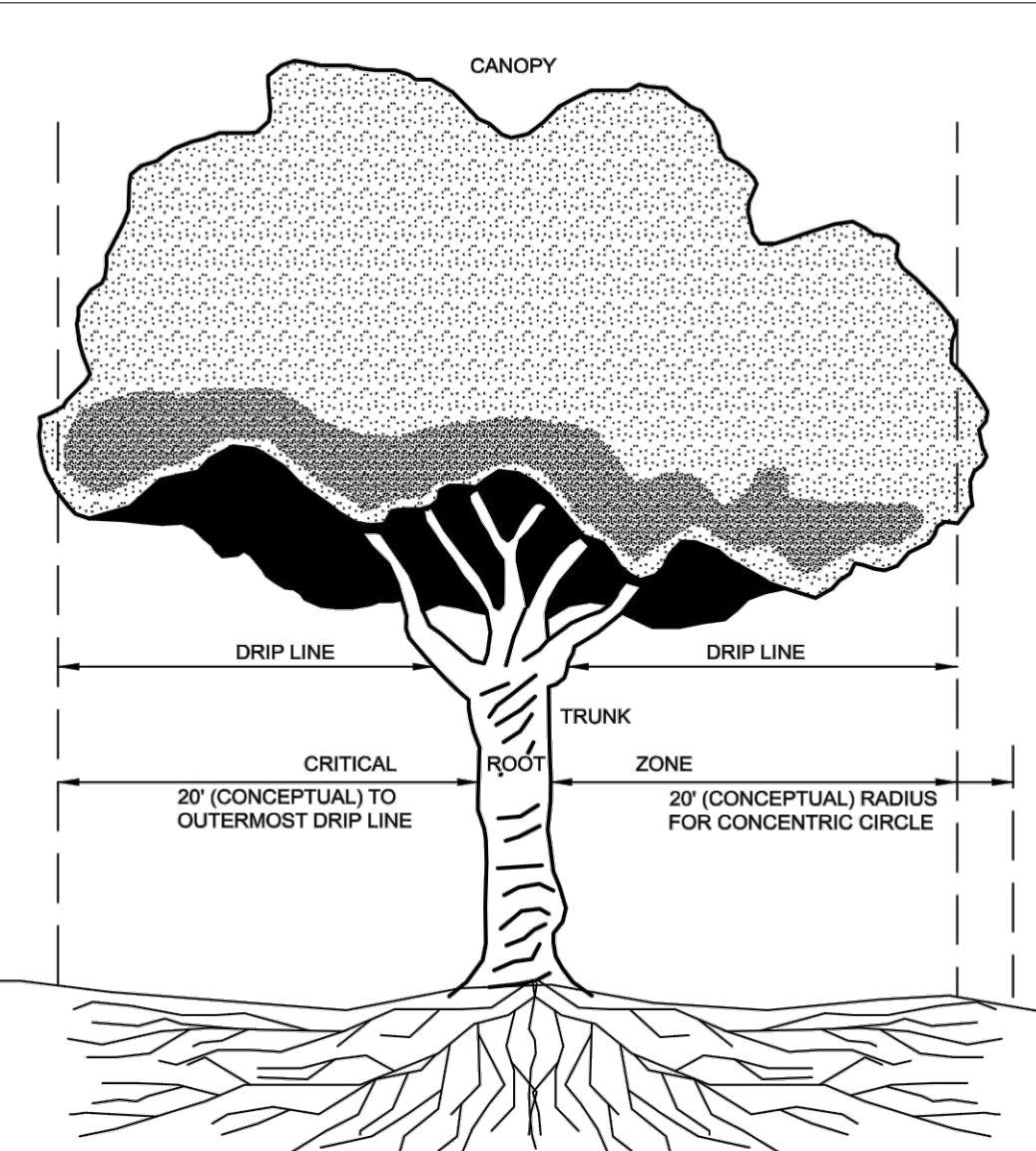
Table with columns: AREA (ACRES), 'C' FACTOR, IMPERVIOUS, POND, GRAVEL PAVING, GRASS. Includes calculations for DETENTION BASIN CALCULATION, BANKFULL FLOOD VOLUME, FIRST FLUSH VOLUME, STORAGE PROVIDED, and SUMMARY OF REQUIRED STANDPIPE HOLES.



PROTECTIVE FENCING: Orange Vinyl construction fencing, chain link fencing, snow fencing or other similar fencing at least four feet (4') high and supported at a maximum of ten-foot (10') intervals by approved methods sufficient enough to keep the fence upright and in place.

PRIOR TO CONSTRUCTION: The contractor or subcontractor shall construct and maintain, for each protected tree or group of trees on a construction site, a protective fencing which encircles the outer limits of the critical root zone of the trees to protect them from construction activity.

TYPICAL TREE PROTECTION FENCING



CRITICAL ROOT ZONE: The area of undisturbed natural soil around a tree defined by a concentric circle with a radius to the distance from the tree trunk to the outermost portion of the drip line. DRIP LINE: A vertical line run through the outermost portion of the canopy of a tree and extending to the ground.

CRITICAL ROOT ZONE AREA

FIRE DEPARTMENT NOTES:

FIRE LANES SHALL BE DESIGNATED BY THE FIRE CODE OFFICIAL, AND SHALL BE CONSPICUOUSLY POSTED ON BOTH SIDES OF THE FIRE LANE, WITH FIRE LANE SIGNS, SPACED NOT MORE THAN 100 FEET APART. FIRE LANE SIGNS SHALL READ "NO TOWING, STANDING, PARKING, FIRE LANE", AND SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

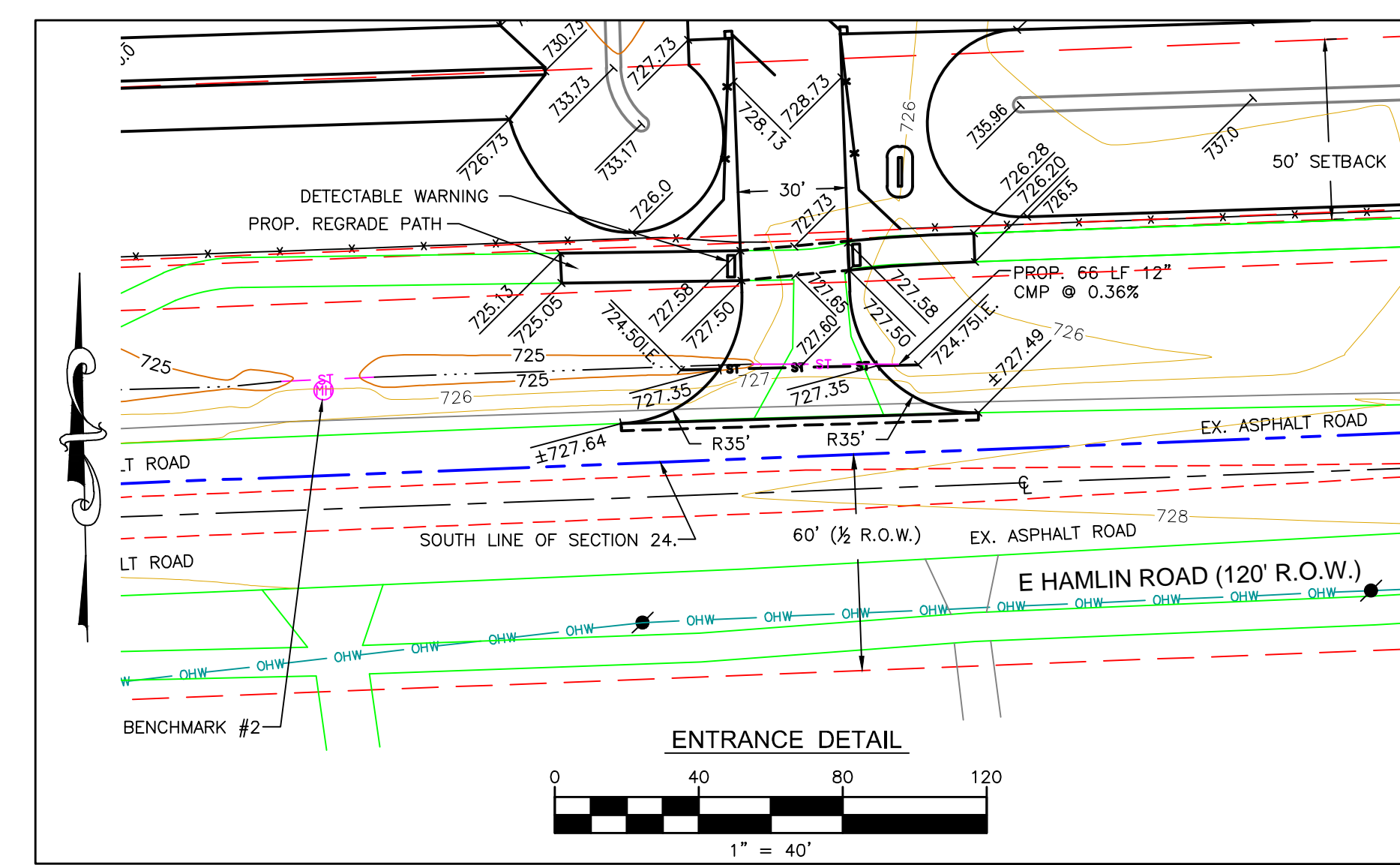
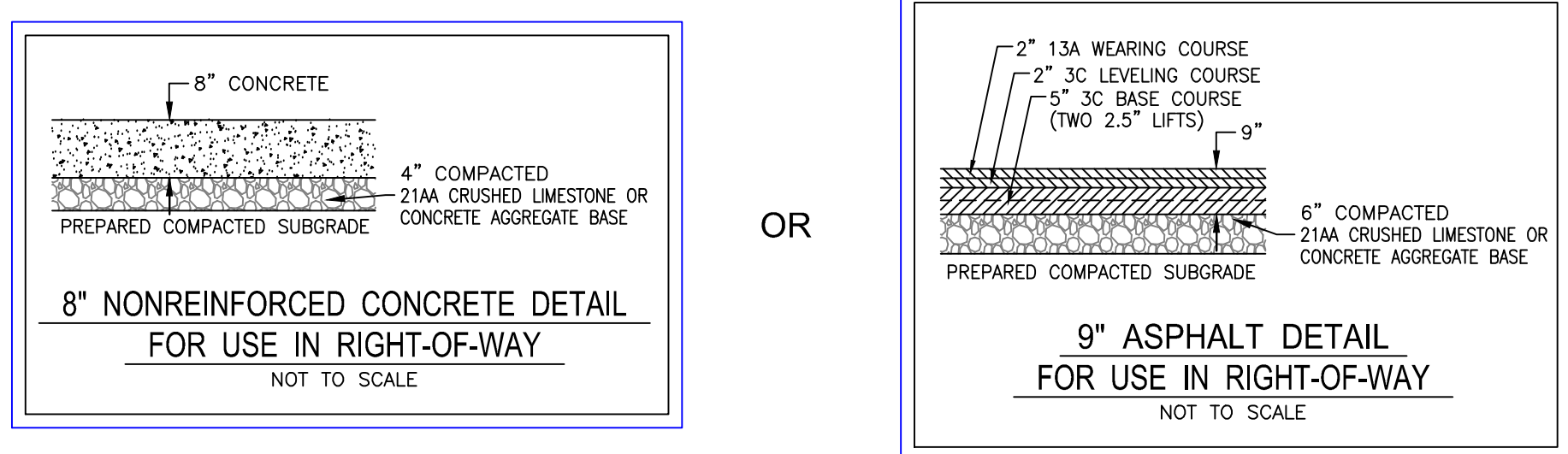
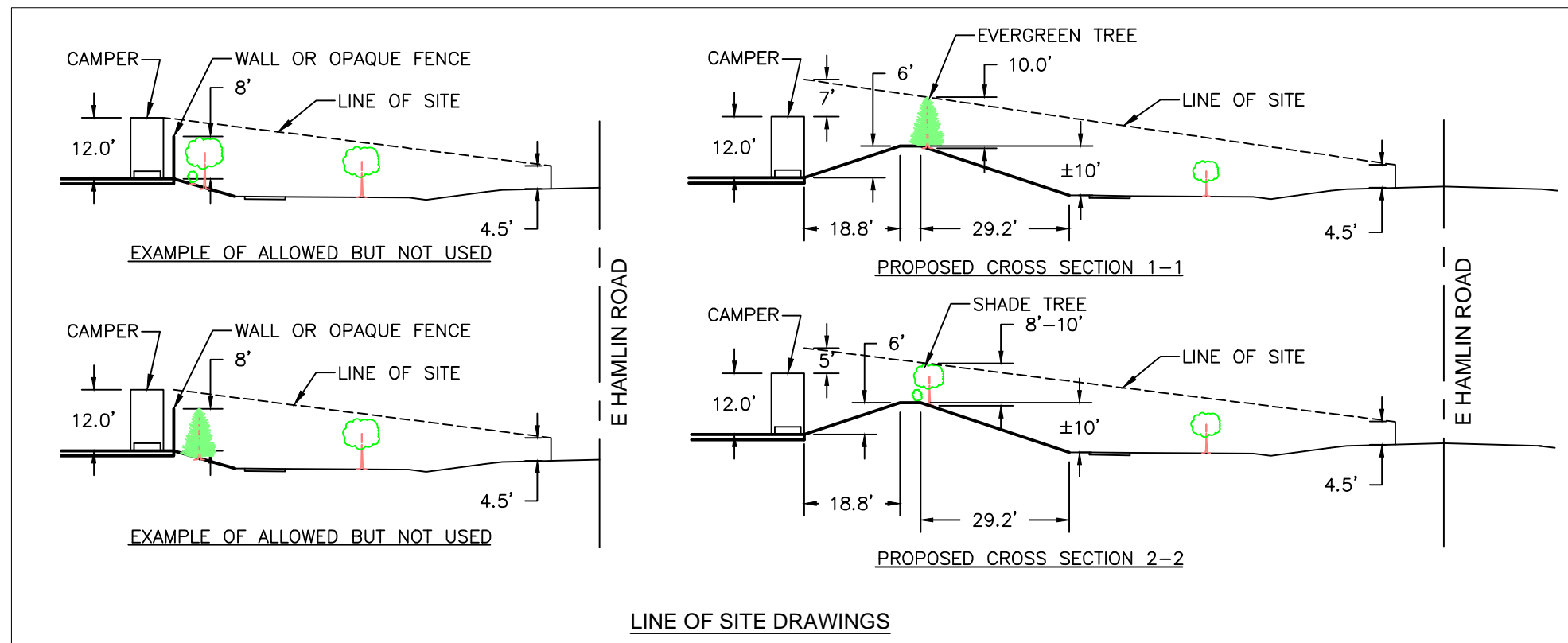
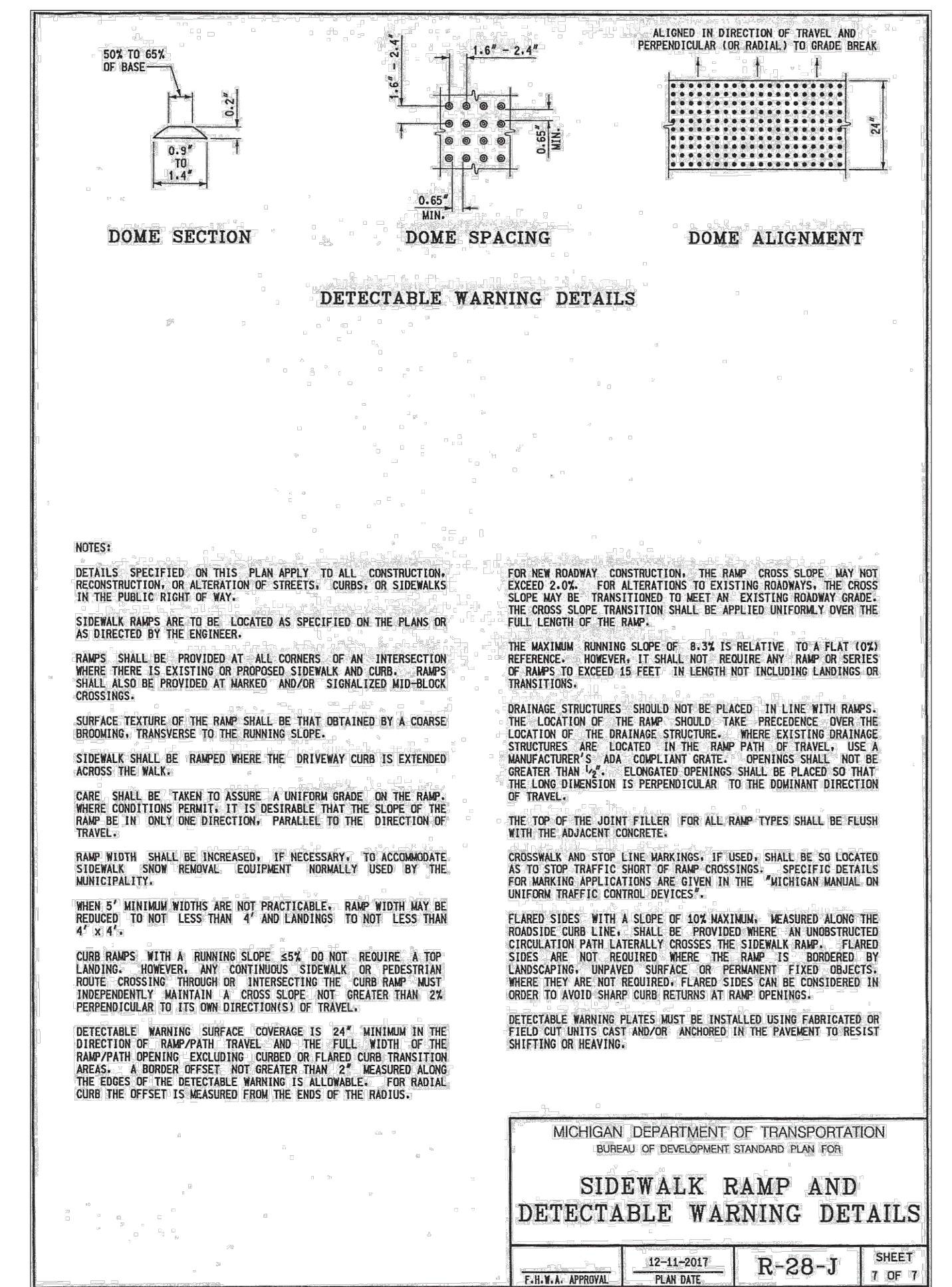
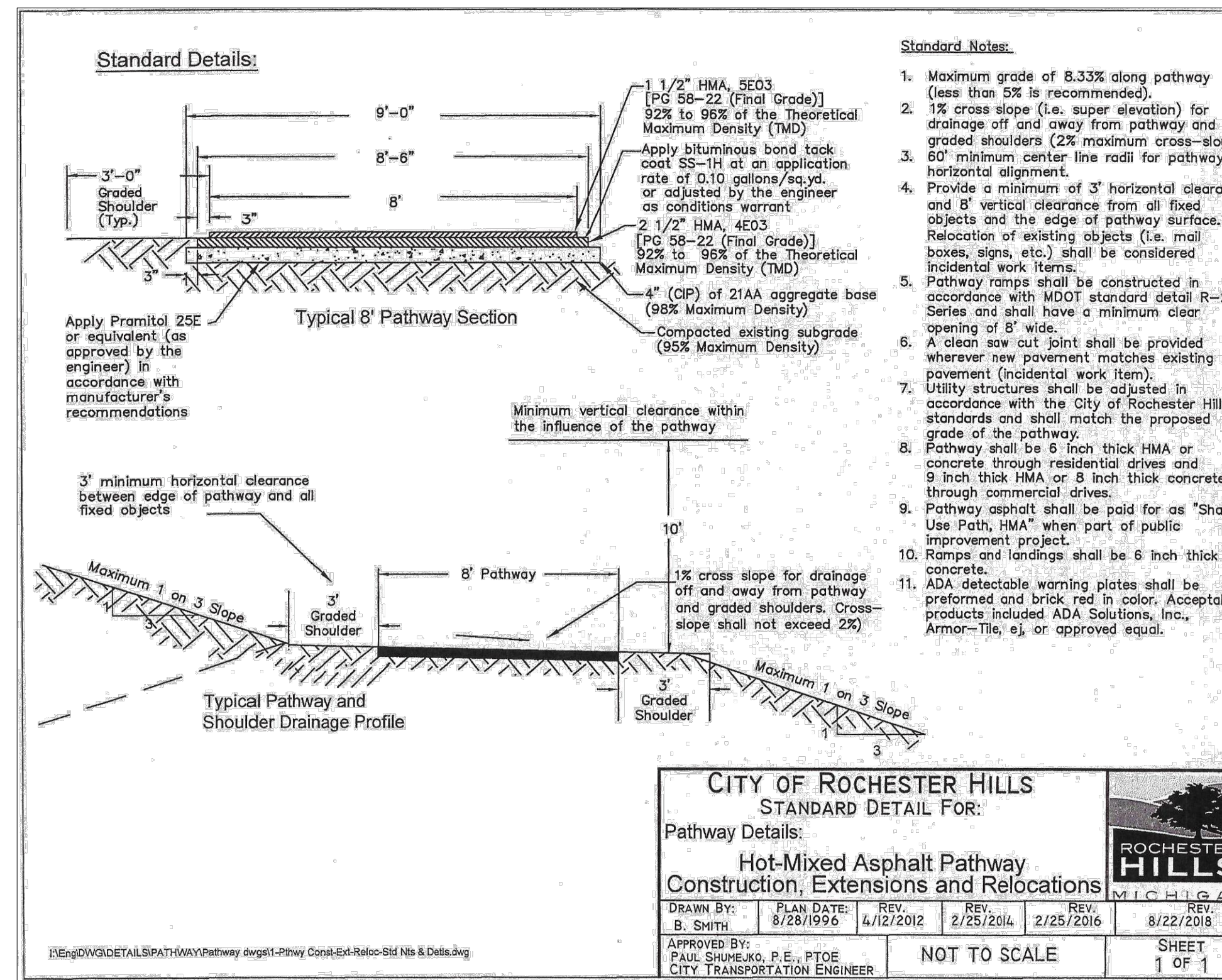
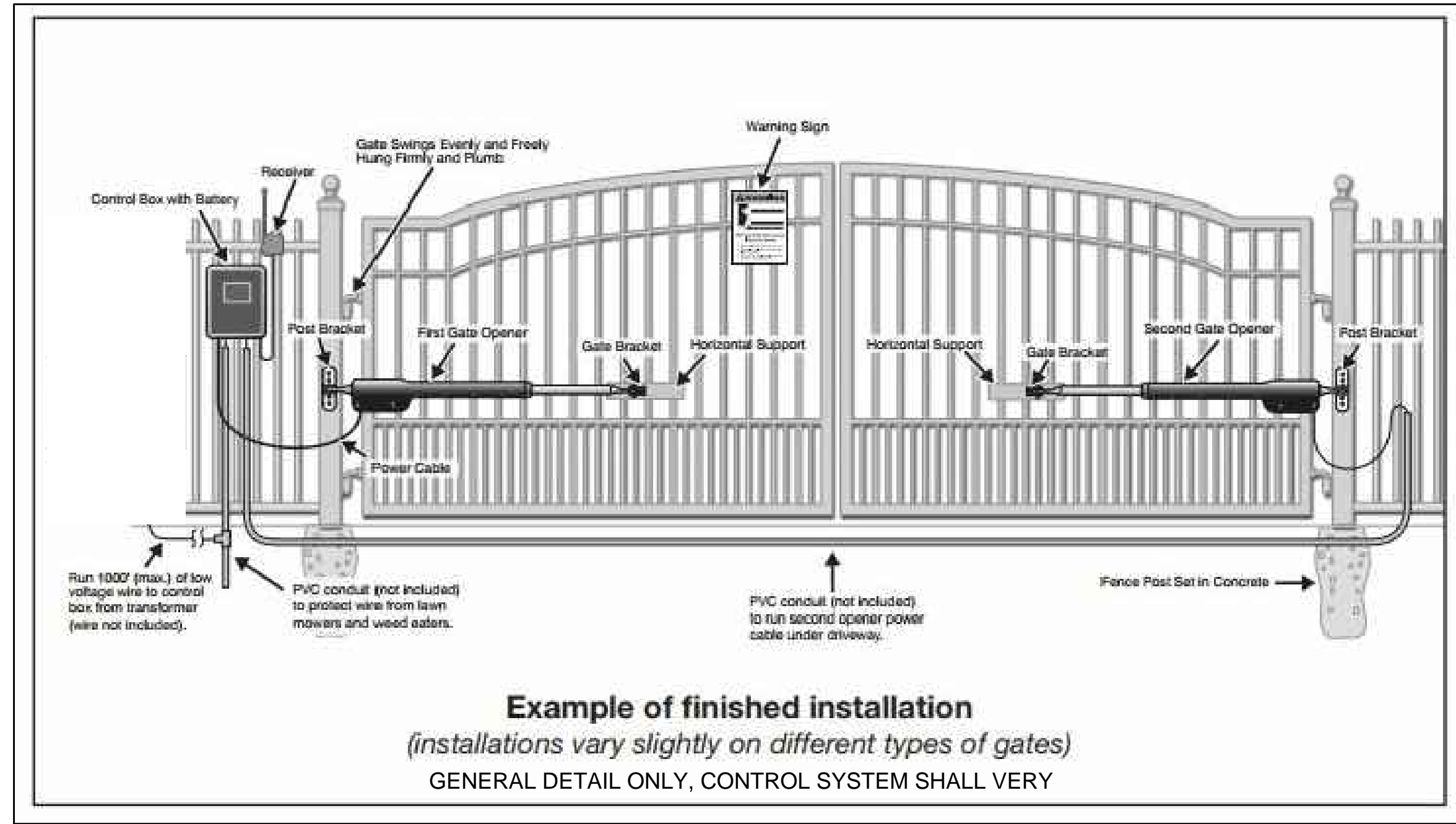
CONSTRUCTION SITES SHALL BE SAFEGUARDED IN ACCORDANCE WITH IFC 2006 CHAPTER 14.

OPEN BURNING IS NOT PERMITTED INCLUDING THE BURNING OF TRASH, DEBRIS, OR LAND CLEARING MATERIALS. OPEN BURNING FOR WARMING OF SAND AND/OR WATER FOR THE PREPARATION OF MORTAR SHALL BE WITHIN THE CITY OF ROCHESTER HILLS BURN PERMIT GUIDELINES.

Table with columns: 'C' FACTOR, STATION FROM, STATION TO, LENGTH OF RUN (FEET), PIPE (INCHES), SLOPE (%), ACRES, TOTAL ACRES, TIME FLOW (T) (MIN), TIME CONC. (T) (MIN), INTENSITY, FLOW Q, VELOCITY (FPS), CAPACITY Q (CFS).

NOT TO BE USED AS CONSTRUCTION DRAWINGS

Vertical sidebar containing project details: SCALE: AS SHOWN, PROJECT NO.: 2015-0015, FILE NAME: HAMLIN-11.DWG, SHEET: 5 OF 12, CITY FILE #19-026 SECTION #24, and various approval signatures and dates.



UTILITY WARNING:
 UNDERGROUND UTILITY LOCATIONS AS SHOWN ON THESE PLANS WERE OBTAINED FROM UTILITY OWNERS AND/OR OBSERVATIONS MADE IN THE FIELD. A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) AND HAVE ALL UTILITIES STAKED BEFORE ANY WORK MAY BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION. THREE (3) WORKING DAYS BEFORE YOU DIG - CALL MISS DIG (1-800-482-7171).

UTILITY INFORMATION, AS SHOWN, INDICATES APPROXIMATE LOCATIONS AND TYPES OF UTILITIES ONLY, AS DISCLOSED TO THIS FIRM BY THE VARIOUS UTILITY COMPANY'S RECORD AND/OR OBSERVATIONS MADE IN THE FIELD. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION AS WELL AS VERIFYING THAT ALL UTILITIES WITHIN THE AREA OF WORK HAVE BEEN LOCATED.

PRIOR TO CONSTRUCTION, ALL LOCATION AND DEPTHS OF EXISTING OVERHEAD AND UNDERGROUND UTILITIES (IN CONFLICT WITH THE CONSTRUCTION OF PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. DURING CONSTRUCTION, CONTRACTOR SHALL USE EXTREME CAUTION WHEN OPERATING NEAR OVERHEAD AND/OR BURIED UTILITIES.

PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS THAT MAY BE IN CONFLICT WITH ANY PROPOSED WORK WHETHER SHOWN IN THE PLAN / PROFILE OR NOT.

BENCHMARK #1:
 "OPEN" ARROW TOP OF FIRE HYDRANT, ±120'
 SOUTHEAST OF THE SOUTHWEST PROPERTY CORNER.
 ELEVATION = 727.55 (NAVD 88)

BENCHMARK #2:
 NORTH EDGE OF RIM OF SANITARY MANHOLE, ±120'
 EAST OF THE SOUTHWEST PROPERTY CORNER.
 ELEVATION = 726.15 (NAVD 88)

