

## OWNER

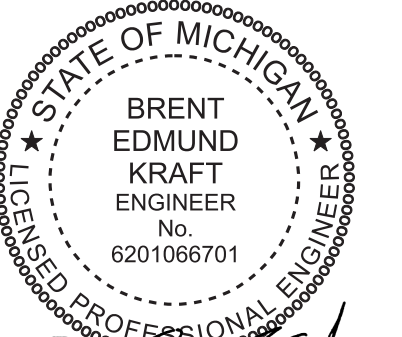
CIVIL ENGINEER  
LANDSCAPE ARCHITECT  
SURVEYOR

## CONTACTS

## UTILITY STATEMENT

giffels  
webster

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Manager:	B.K.
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Quality Control:	B.K. / M.K.
Section:	16
T-04-N R-12-E	

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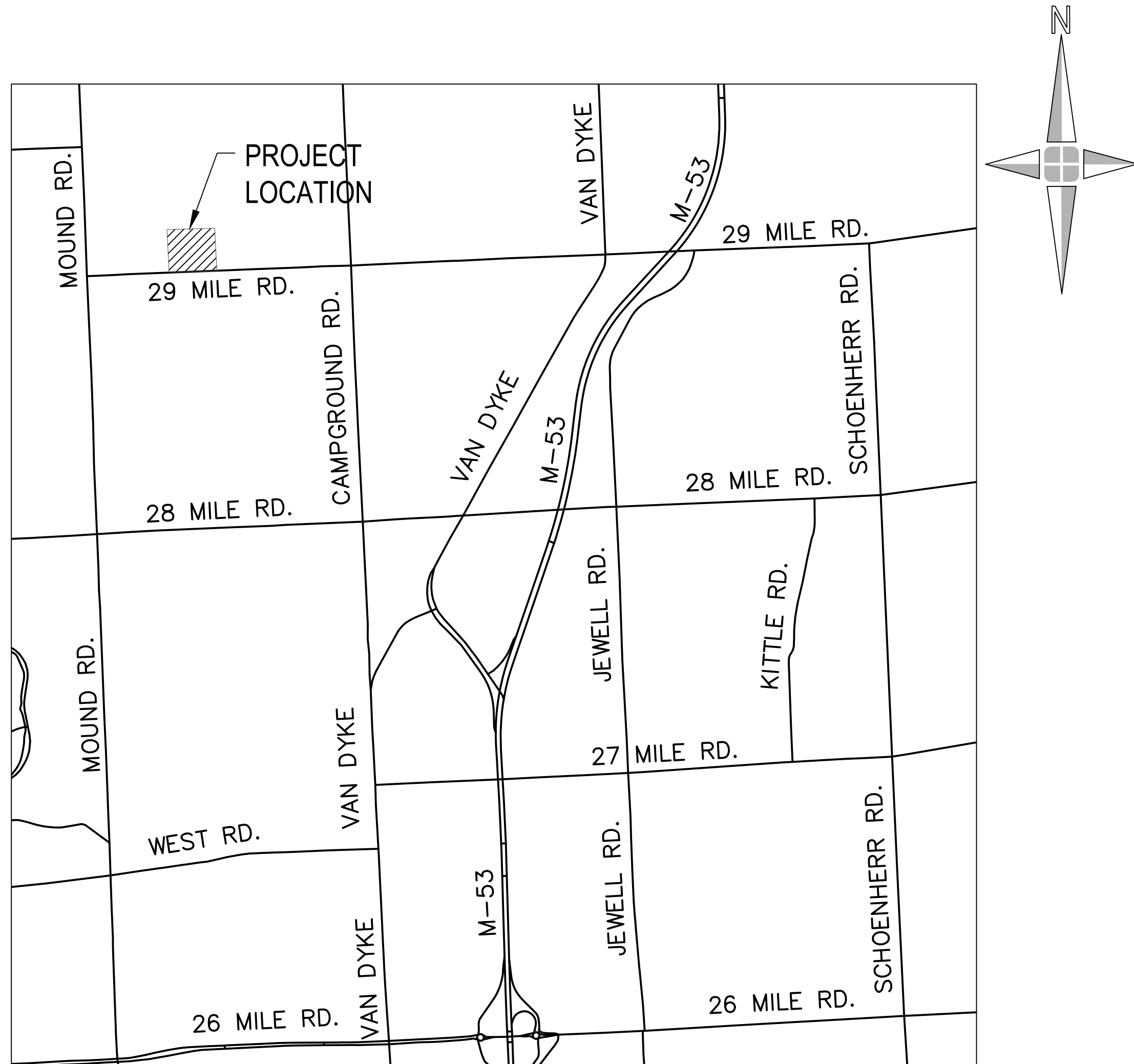
## COVER SHEET

GILCHER-CRISSMAN PARK  
PAVILION

WASHINGTON TWP.  
MACOMB COUNTY  
MICHIGAN

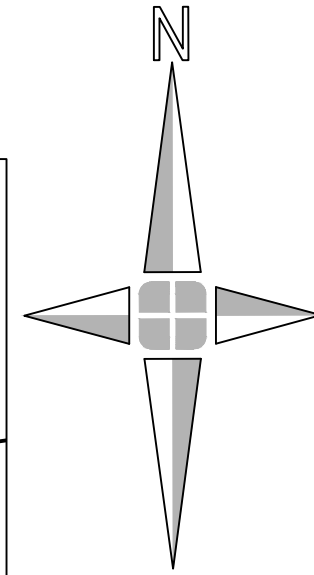
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project:	20408.00

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## LOCATION MAP

SCALE: 1" = 2,000'



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CP-06 SOIL EROSION & SEDIMENT CONTROL NOTES & DETAILS



1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE CHARTER TOWNSHIP OF WASHINGTON, AND ANY OTHER AGENCIES HAVING JURISDICTION.
2. UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM UTILITY OWNERS AND THEREFORE MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY AND OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES WHICH MIGHT HAVE AN IMPACT ON THIS PROJECT AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES WHETHER THEY ARE SHOWN OR NOT ON THE PLANS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AT PROPOSED CONNECTIONS AND/OR CROSSINGS, AND TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES TO THESE PLANS.
4. 72 HOURS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG AT (800) 482-7171 FOR THE LOCATION OF UNDERGROUND GAS AND CABLE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.
5. ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR. ALL PERMIT FEES, BONDS, AND INSURANCE REQUIRED BY THE ISSUING AGENCIES SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE KEPT CURRENT. THE CONTRACTOR IS RESPONSIBLE FOR ALL OTHER FEES, INSPECTION COSTS, ETC., AND SHALL ADHERE TO ALL REQUIREMENTS SET FORTH IN SAID PERMITS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL WORK AREAS TO ENSURE THE SAFETY OF ALL OCCUPANTS, VISITORS, PEDESTRIANS, WORKERS, ETC. THE CONTRACTOR SHALL REPAIR AND MAINTAIN ALL CONSTRUCTION FENCING AS NECESSARY.
7. THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS ACCESS TO THE SITE FOR USE BY THE VARIOUS WORK FORCES, EMERGENCY VEHICLES, OCCUPANTS, VISITORS, ETC. THROUGHOUT CONSTRUCTION. THIS ACCESS MUST PROVIDE FOR THE REMOVAL OF MUD FROM VEHICLES TRIPS, ROADWAYS AND DRIVEWAYS SHALL BE MAINTAINED AND OPEN FOR EMERGENCY VEHICLES AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE RESIDENTS AND BUSINESS WHOSE DRIVEWAYS ARE AFFECTED BY THEIR SCHEDULE 24 HOURS IN ADVANCE. CONTRACTOR SHALL SCHEDULE CONSTRUCTION AT NON-PEAK USE HOURS AND SHALL MINIMIZE DRIVEWAY CLOSURE BY EXPEDITING CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE NECESSARY SIGNS, BARRICADES, AND LIGHTS TO PROTECT THE TRAFFIC AND THE WORK AS DIRECTED BY THE PLANS AND BY THE MACOMB COUNTY DEPARTMENT OF ROADS. ALL TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
9. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION ACTIVITIES TO THE LIMITS OF THE SITE AS SHOWN ON THE CONSTRUCTION PLANS. ANY DAMAGE OR DISRUPTION TO ADJACENT SITES IS THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT IMMEDIATELY. NO OFF-SITE WORK SHALL BE PERFORMED OUTSIDE OF PUBLIC RIGHTS-OF-WAY OR DEDICATED EASEMENTS WITHOUT PRIOR WRITTEN APPROVAL OF THE PROPERTY OWNER.
10. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO VEGETATION OUTSIDE THE CLEARING AND GRUBBING LIMITS. NO DRIVING OR PARKING OF VEHICLES AND/OR STORAGE OF MATERIALS AND SUPPLIES SHALL BE PERMITTED OUTSIDE THE LIMITS OF CONSTRUCTION.
11. ALL ELEVATIONS ON THESE PLANS ARE ON THE NAVD83 DATUM.
12. THE PROTECTION OF EXISTING TREES, AS REQUIRED, SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
13. ALL CONSTRUCTION SHALL HAVE INSPECTION PROVIDED BY THE CHARTER TOWNSHIP OF WASHINGTON. THE CONTRACTOR SHALL CONTACT THE TOWNSHIP 48 HOURS BEFORE THE START OF CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL, AND SHALL PROVIDE ALL NECESSARY MATERIAL AND EQUIPMENT TO KEEP DUST IN CHECK AT ALL TIMES. THE CONTRACTOR SHALL RESPOND IMMEDIATELY TO ANY AND ALL COMPLAINTS. DUST CONTROL SHALL BE INCIDENTAL TO THE PROJECT.
15. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER SPRINKLER HEADS, PIPING, LIGHTING, AND BURIED ELECTRICAL CABLE, MALBOXES, FENCES, SIGNS, ETC., THAT MAY OR MAY NOT BE INDICATED ON THESE PLANS. THE CONTRACTOR SHALL REPLACE AND/OR RESTORE ALL COMPONENTS OF SUCH SYSTEMS. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, MINIMUM STANDARD REQUIREMENTS, OR AS SPECIFIED HEREIN, WHICHEVER IS MORE STRINGENT.
16. ROADWAY, DRIVEWAY, AND PARKING AREA FINAL RESTORATION SHALL BE PERFORMED WITH SURFACE AND BASE MATERIALS MATCHING EITHER THE EXISTING MATERIALS IN QUALITY AND THICKNESS, PER MINIMUM REQUIREMENTS, OR PER THE FOLLOWING, WHICHEVER IS MORE STRINGENT:

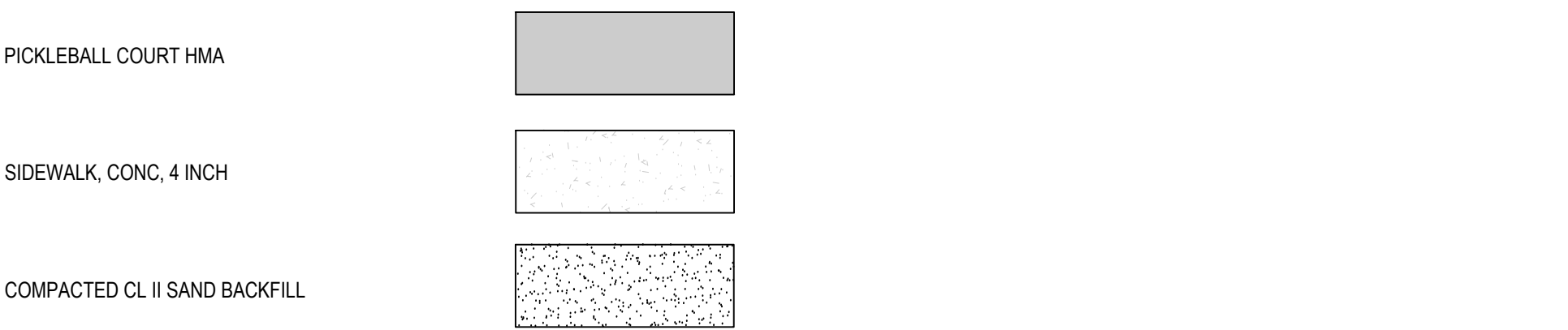
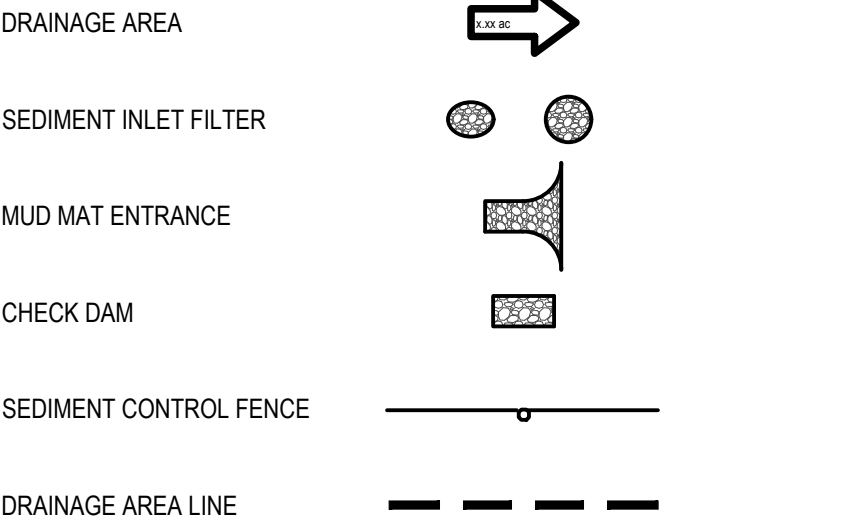
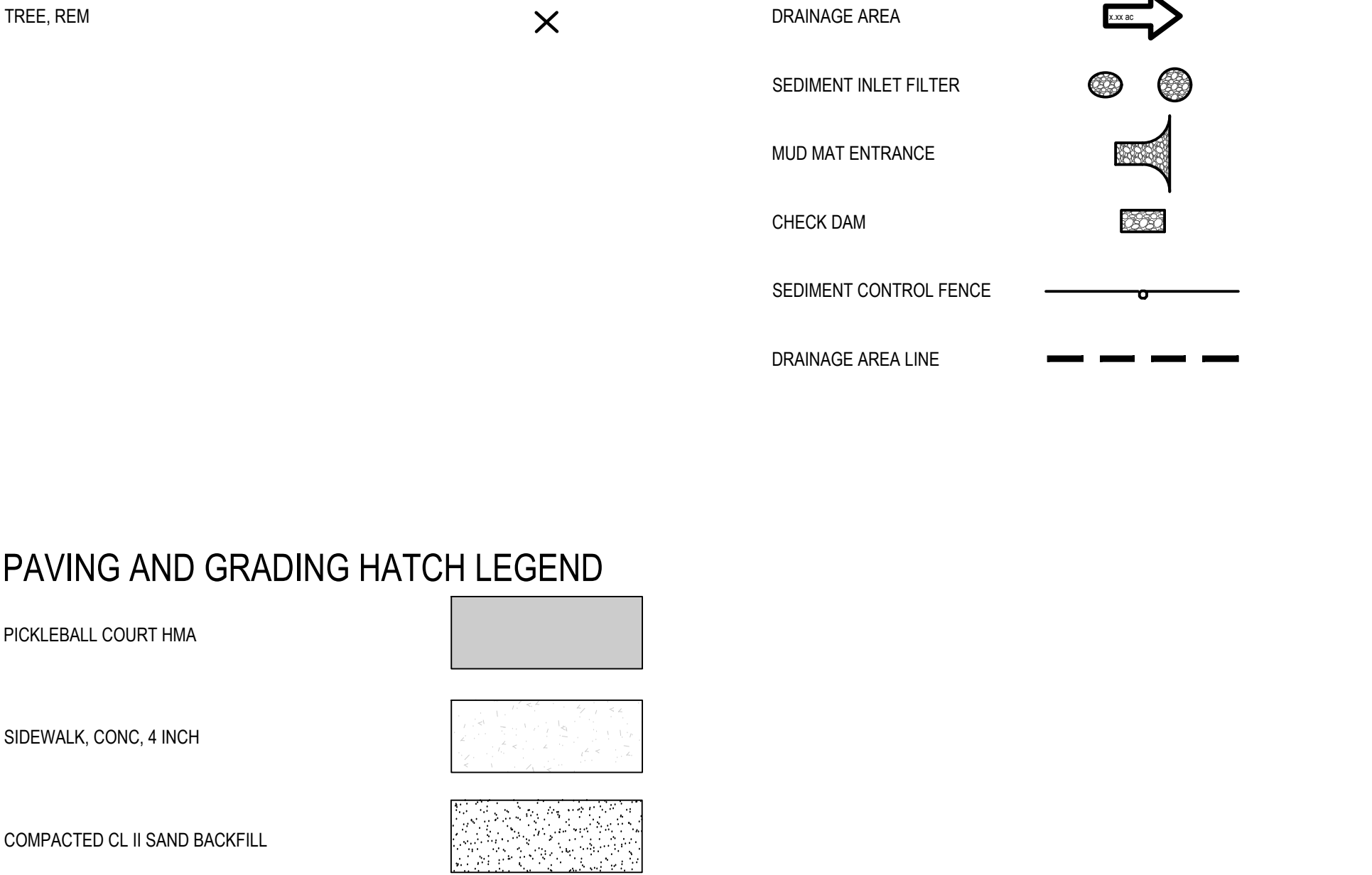
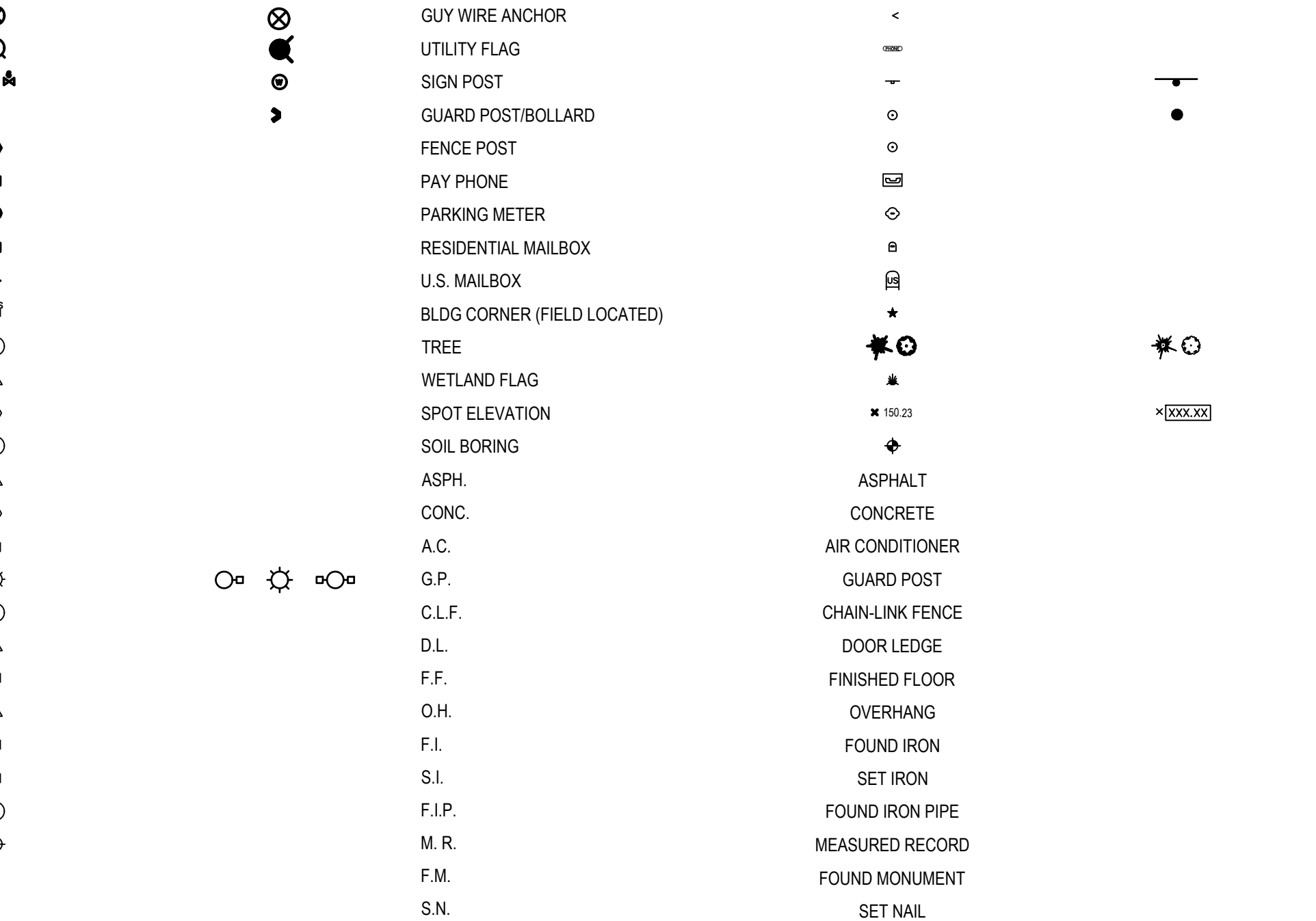
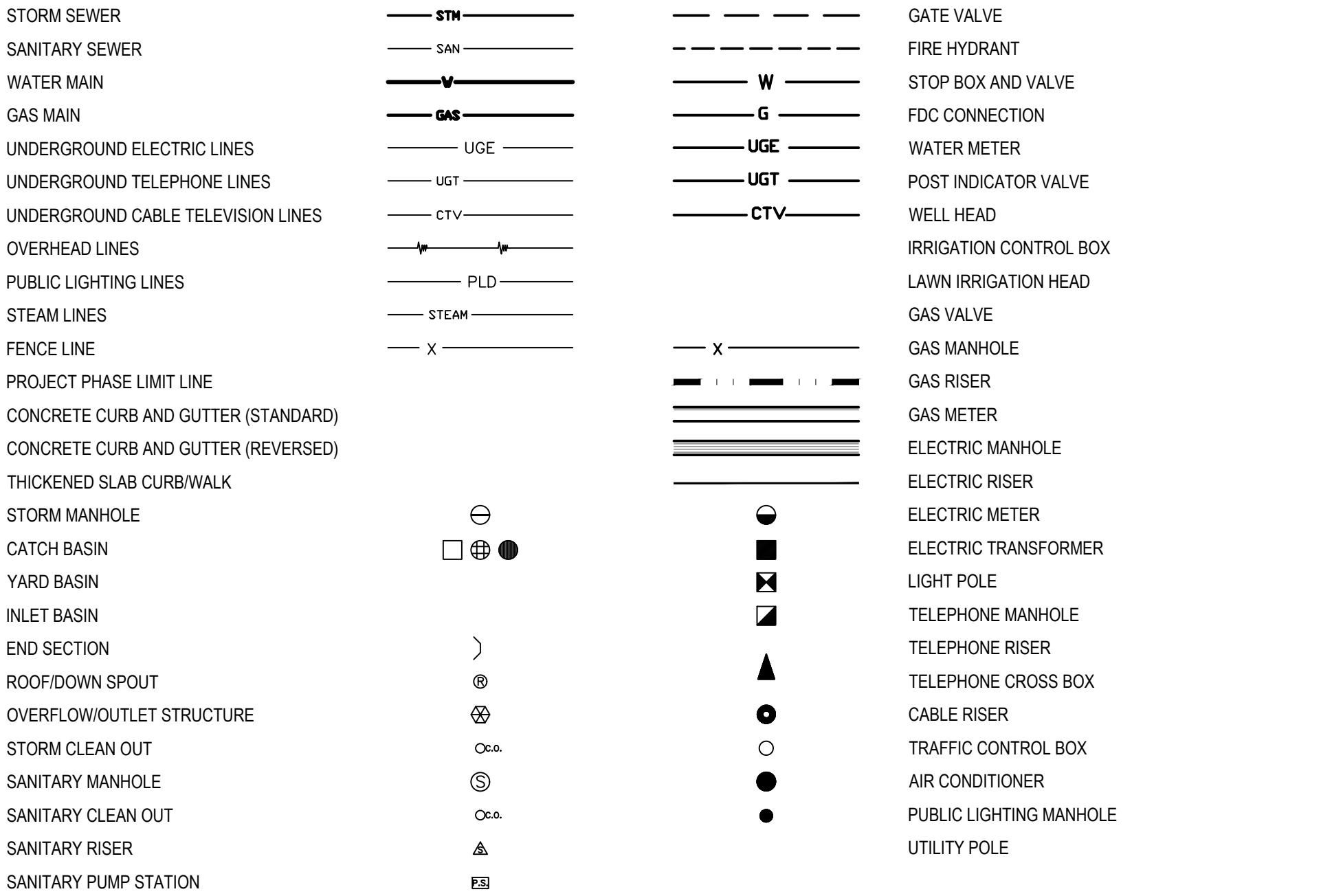
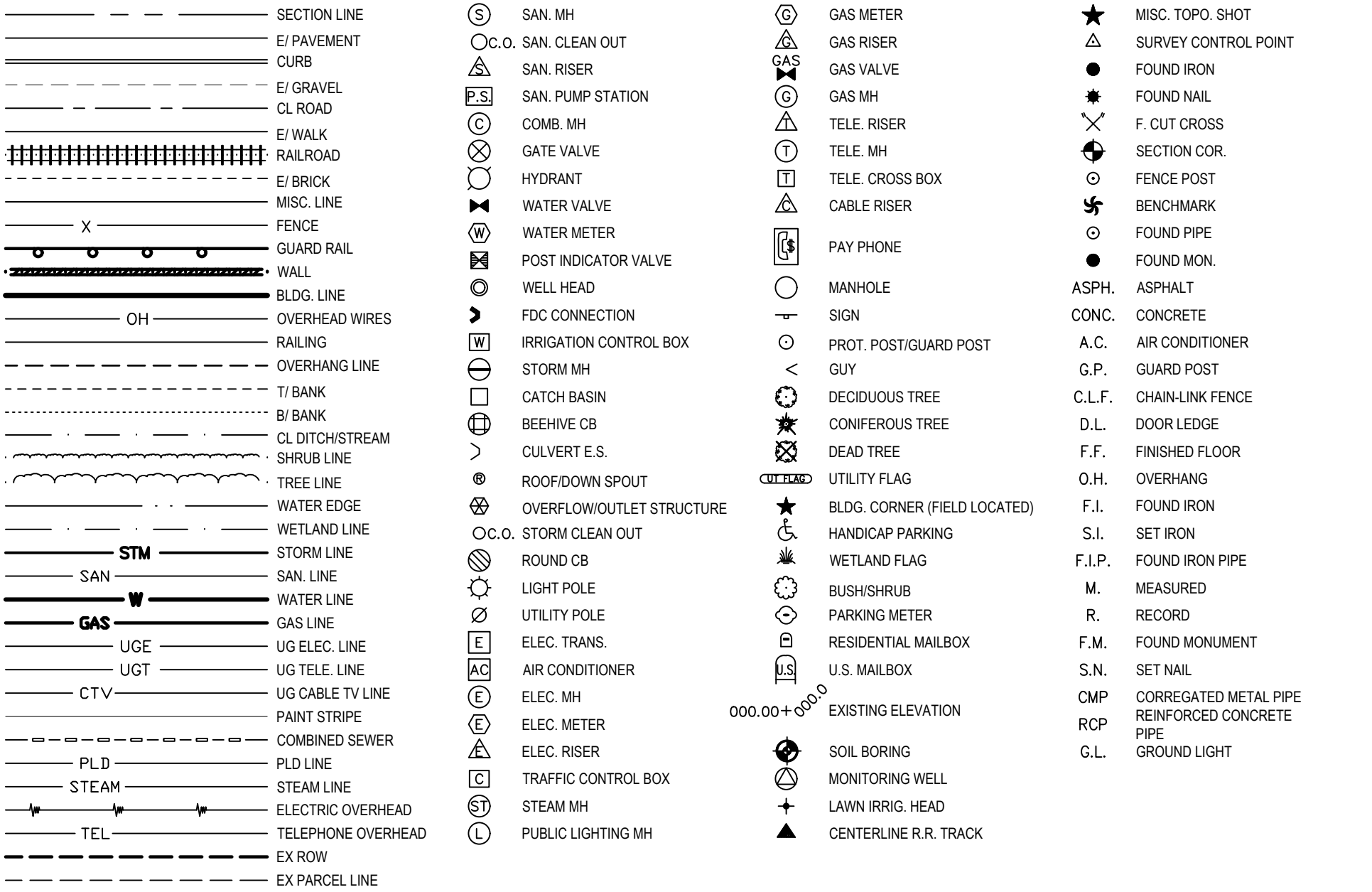
1. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
2. REFER TO UTILITY PLANS TO COORDINATE ALL:
  - A. WATER SUPPLY, METERING, SPRINKLER AND FDC PIPING, DESIGN, AND COORDINATION
  - B. BUILDING SEWER, BUILDING DRAIN DESIGN AND CONNECTIONS TO CLEAN OUTS, AND ROOF CONNECTORS
  - C. GAS, ELECTRIC AND COMMUNICATION SERVICES, AND LIGHTING DETAILS
  - D. ALL BUILDING ACCESS WALKS AND ENTRY DETAILS, INCLUDING SUPPORTED SLABS
  - E. ALL WORK TO CONSTRUCT THE BUILDING AND ALL ITEMS CONNECTED TO IT
3. ALL TRENCHES WITHIN A ONE-ON-ONE SLOPE OF PAVEMENT SHALL BE BACKFILLED WITH SAND (MDOT CLASS II MINIMUM) AND MECHANICALLY COMPACTED IN NOT MORE THAN 9" LAYER TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR COMPACTION TEST ASTM D-1557. COMPACTED SAND BACKFILL SHALL ALSO BE PROVIDED FOR ALL UTILITY TRENCHES LOCATED UNDER, OR WITHIN, THREE FEET OF PAVEMENT.
4. THE COST OF ALL TREE, STUMP, FOUNDATION, AND/OR STRUCTURE REMOVAL AND DISPOSAL NOT INCLUDED ON THE BID FORM SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE PRICE BID FOR WORK PIPER.
5. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES IS REQUIRED AT UTILITY CROSSINGS (MEASURED FROM THE OUTSIDE OF PIPE TO THE OUTSIDE OF PIPE). POSITIVE PROVISIONS SHALL BE MADE TO ENSURE THAT ALL UTILITY TRENCHES ARE FREE DRAINING DURING ALL PHASES OF CONSTRUCTION.
6. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF ALL UTILITY LINES AND STRUCTURES, AS OUTLINED ON THE DEMOLITION PLAN, WITH THE INSTALLATION OF UTILITY IMPROVEMENTS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING GRADE MODIFICATIONS INDICATED ON THE PLANS, AND COORDINATE THE ACTUAL FINISH GRADE OF FIRE HYDRANTS, GATE VALVE CASTINGS, MANHOLES, YARD DRAINS, CLEAVANETS, AND OTHER UTILITY STRUCTURES. ENSURE THAT ALL FINISH GRADING IS PERFORMED IN A MANNER THAT ACCOMPLISHES THE PROJECT DESIGN OBJECTIVES AND PROVIDES FOR POSITIVE DRAINAGE OF ALL AREAS. ANY SUBSTANTIAL GRADE CHANGES WHICH MAY CAUSE FUNCTIONAL PROBLEMS SHALL BE REPORTED PROMPTLY TO THE ENGINEER WHO SHALL EVALUATE THE CONDITIONS AND PROVIDED CORRECTIONAL RECOMMENDATIONS TO THE OWNER FOR FINAL DETERMINATION.
8. THE CONTRACTOR SHALL REMOVE UTILITIES, WHICH HAVE BEEN ABANDONED IN PLACE, AS REQUIRED TO COMPLETE INSTALLATION OF NEW UTILITIES. WHENEVER ABANDONED UTILITIES ARE CUT, CONTRACTOR SHALL COMPLETELY CAP BOTH ENDS TO PREVENT THE INFILTRATION OF SOILS.
9. NO CONNECTION MAY BE MADE TO ANY EXISTING WATER MAIN UNTIL THE NEW MAIN HAS PASSED ALL PRESSURE AND BACTERIOLOGICAL TESTING.
10. ROADWAY, DRIVEWAY, AND PARKING AREA CROSSINGS SHALL BE TEMPORARILY CONDITIONED IMMEDIATELY AFTER CROSSING BY PLACING 8" OF MDOT 22A GRAVEL OR SLAG AGGREGATE AND SHALL BE MAINTAINED IN GOOD, DUST-FREE CONDITION UNTIL PAVEMENT RESTORATION IS MADE.
11. ADEQUATE RESTRAINT MUST BE PROVIDED AT CONNECTIONS TO APPURTENANCES OR TRANSITIONS TO DIFFERENT PIPE MATERIALS USING A MECHANICAL JOINT ADAPTER WITH STAINLESS STEEL STIFFENER OR APPROVED EQUAL.
12. ALL DIRECTIONAL DRILLED WATER MAIN PIPE SHALL INCLUDE TRACER WIRE NO. 8 INSULATED COPPER WIRE AS DETAILED IN SECTION 33.05 07.13 OF THE PROJECT MANUAL.
13. MAXIMUM PIPE DEFLECTION IS ASSUMED 1" FOR PVC AND 3" FOR DIL. INSTALL ADDITIONAL BENDS AS NEEDED (INCIDENTAL).

1. ALL DAMAGE DONE TO THE EXISTING PAVEMENT DURING CONSTRUCTION MUST BE REMOVED AND REPLACED PER MCDR STANDARDS AND AT THE TOWNSHIP'S/CONTRACTOR'S EXPENSE. IT SHALL BE DONE AT THE DIRECTION OF THE MCDR'S INSPECTIONS SUPERVISOR AND DISTRICT INSPECTOR.
2. WORK WITHIN THE ROAD RIGHT-OF-WAYS SHALL BE SUBJECT TO THE REVIEW, APPROVAL, AND INSPECTION OF MACOMB COUNTY DEPARTMENT OF ROADS ANY OTHER PUBLIC AGENCY HAVING JURISDICTION.
3. SEE MCDR DETAIL SHEETS FOR ALL PAVEMENT SECTION DETAILS WITHIN THE ROAD RIGHT-OF-WAY.
4. ALL UTILITIES CROSSING THE DRIVEWAY AREAS MUST BE BACKFILLED WITH COMPACTED SAND BACKFILL IN MAX 9" LIFTS AND 95% PROCTOR.
5. ALL EXISTING STORM CULVERT AND END SECTIONS SCHEDULED FOR REPLACEMENT SHALL BE OF EQUAL SIZE MATERIALS. PIPES AND CULVERTS MUST BE SET AT ELEVATIONS TO MAINTAIN POSITIVE DRAINAGE AND IN ACCORDANCE WITH THE MACOMB COUNTY DEPARTMENT OF ROAD STANDARDS AND SPECIFICATIONS.
6. ALL DITCHING MUST BE RESTORED TO ITS ORIGINAL CONDITION AND MAINTAIN POSITIVE DRAINAGE. SEE FIGURE 4-6 IN THE MCDR SUBDIVISION DEVELOPMENT PROCEDURES, STANDARD A SPECIFICATIONS.
7. THE CONSTRUCTION OF A PAVED RESIDENTIAL APPROACH ON OF PRIMARY AND LOCAL ROAD SYSTEMS SHALL CONSIST OF A MINIMUM OF 6" OF CONCRETE PLACED ON A SAND SURFACE (MCDOT CLASS II SAND MINIMUM) OF 4" OR A MINIMUM OF 4" OF ASPHALT PLACED ON 6" OF 21A AGGREGATE BASE COMPACTED TO 95% MAXIMUM DENSITY.

1. ALL MATERIALS SHALL CONFORM TO THE CHARTER TOWNSHIP OF WASHINGTON STANDARD WATER MAIN DETAILS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION, TESTING, AND COMPLETION OF ALL PROPOSED WATER MAIN PER SECTION 33 10.0 OF THE PROJECT MANUAL.
3. ALL BENDS, TEES, AND REDUCERS MUST BE RESTRAINED VIA THRUST BLOCKS, RESTRAINING CLAMPS (MEGALUGS), AND BARS AND/OR REINFORCED CONCRETE ENCASEMENT. CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED MICHIGAN PROFESSIONAL ENGINEER.
4. CONTRACTOR SHALL USE BENDS OR DEFLECT PIPE AS NECESSARY OR AS DIRECTED BY TOWNSHIP INSPECTOR TO AVOID CONFLICTS WITH EXISTING UTILITIES OR OTHER PERMANENT OBSTRUCTIONS BOTH HORIZONTAL AND VERTICAL (INCIDENTAL TO WATER MAIN CONSTRUCTION).
5. REMOVAL OF BRUSH AND SMALL TREES 6" AND UNDER ARE INCIDENTAL TO WATER MAIN CONSTRUCTION.
6. NO PROPOSED WORK SHALL TAKE PLACE WITHIN COUNTY DITCH. CONTRACTOR RESPONSIBLE FOR PROTECTING DITCH THROUGHOUT CONSTRUCTION. ANY DAMAGES CAUSED BY CONTRACTOR ACTIVITIES SHALL BE RESTORED AND DITCHES SHALL BE REGRADED WITH POSITIVE DRAINAGE.
7. INSTALL TRAFFIC CONTROL PER MDOT, MAUTCD, AND MCDR STANDARDS.

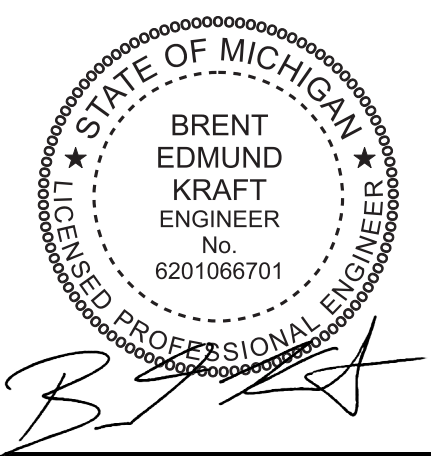
1. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
2. WITH THE EXCEPT OF EXCAVATED MATERIALS SUFFICIENT FOR BACKFILLING AND CONSTRUCTION OF FILLS AS CALLED FOR ON THE PLANS AND AS INDICATED BELOW, ALL BROKEN CONCRETE, STONE, AND EXCESS EXCAVATED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN THEIR OWN DISPOSAL GROUND AND WILL RECEIVE NO ADDITIONAL COMPENSATION FOR DISPOSING OF ANY OF THE EXCESS MATERIALS. MATERIALS ACCEPTABLE TO THE ENGINEER MAY BE DISPOSED OF ON-SITE AT THE CONTRACTOR'S EXPENSE IN A MANNER APPROVED IN ADVANCE BY THE ENGINEER.
3. THE EDGE OF EXISTING PAVEMENT SHALL BE CLEANED OF EARTH AND OTHER FOREIGN MATERIAL BEFORE ADJACENT POURS ARE PLACED.
4. STREET SIGNS IN THE WAY OF CONSTRUCTION WILL BE REMOVED AND RESET IMMEDIATELY IN A TEMPORARY LOCATION, AS APPROVED BY ENGINEER.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SIGNS AND POSTS SCHEDULED TO REMAIN, AS DIRECTED BY THE ENGINEER.
6. ALL UNDERGROUND UTILITIES NOT INDICATED FOR REMOVAL SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PRIVATE PROPERTY (INCLUDING BUILDINGS AND FOUNDATIONS) THROUGHOUT CONSTRUCTION AND SHALL MAINTAIN SAFE PEDESTRIAN ACCESS AT ALL TIMES.
8. THE REMOVAL OF PAVEMENT, CURBS, AND WALKS SHALL INCLUDE ALL REQUIRED SAWCUTTING. CURB REMOVAL IS INCIDENTAL TO PAVEMENT REMOVAL.

1. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.
2. THE PAVING CONTRACTOR SHALL BE REQUIRED TO COORDINATE THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, SPRINKLERS, ETC. IN SUCH A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO PLACING THE PAVEMENT MATERIALS. ENSURE THAT ALL REQUIRED PIPES, CONDUITS, CABLES, AND SLEEVES ARE PROPERLY PLACED AND THAT THE TRENCHES ARE PROPERLY BACKFILLED AND COMPACTED.
3. BUTT JOINTS SHALL BE PLACED AT ALL LOCATIONS WHERE AN EXISTING ASPHALT PAVEMENT SURFACE IS BEING DISTURBED BY REMOVALS AND/OR THE INSTALLATION OF NEW ASPHALT PAVEMENT.
4. ALL PAVEMENT AREAS SHOULD BE CLEARED AND GRUBBED BY REMOVING SURFACE VEGETATION, TOPSOIL, DEBRIS, AND OTHER DELETERIOUS MATERIALS.
5. THE PLACEMENT OF THE FINAL ASPHALT LIFT SHALL BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED, OR AS APPROVED BY THE OWNER. A BOND COAT OF SS-1H EMULSION SHALL BE APPLIED (AT A RATE OF 0.10 GALLONS/SYD) BETWEEN THE LEVELING AND WEARING COURSE WHEN 48 HOURS HAVE ELAPSED BETWEEN PLACEMENTS.
6. THE FINAL SUBGRADE SHALL BE THOROUGHLY PROOF ROLLED UNDER THE OBSERVATION OF THE SOILS ENGINEER.
7. PROPOSED AGGREGATE BASE SHALL EXTEND BEYOND THE PAVEMENT EDGE/BACK OF CURB BY THE FOLLOWING AMOUNTS OR BY THE AMOUNT STATED BY THE AGENCY HAVING JURISDICTION, WHICHEVER IS STRICTER:
  - A. ROADS - 1 FT
  - B. DRIVES - 0.5 FT
  - C. PATHS - 0.25 FT
8. ALL TRENCHES WITHIN A ONE-ON-ONE SLOPE OF PAVEMENT SHALL BE BACKFILLED WITH SAND (MDOT CLASS II MINIMUM) AND MECHANICALLY COMPACTED IN NOT MORE THAN 9" LAYER TO 95% MAXIMUM DRY DENSITY PER MODIFIED PROCTER COMPACTION TEST ASTM D-1557.
9. NO FROZEN MATERIAL SHALL BE PERMITTED AS BACKFILL UNDER ANY ROADWAY, DRIVEWAY, OR PARKING AREA.
10. PRIOR TO THE START OF ANY FILLING, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL AND ALL OTHER UNACCEPTABLE SOIL FROM THE FILL AREAS, AND PROPERLY BACKFILL WITH ACCEPTABLE SOIL.
11. BARRIER-FREE SIGNAGE SHALL BE PLACED IN FRONT OF EVERY DESIGNATED BARRIER FREE STALL. THE CONTRACTOR SHALL COORDINATE STANDARD AND VAN ACCESSIBILITY SIGNAGE AS INDICATED ON THE PLANS.
12. ALL BARRIER FREE RAMPS TO BE A.D.A. COMPLIANT.
13. GENERAL GRADING REQUIREMENTS ARE AS FOLLOWS:
  - A. FINISH GRADE AT EXISTING BUILDING SHALL MATCH BRICK LEDGES, DOORWAYS, OR BASEMENT WINDOWS
  - B. MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING (+2%)
  - C. SIDEWALK CROSS SLOPE ±2% UNLESS OTHERWISE NOTED (EXCLUDING RAMPS)
  - D. PAVEMENT SLOPES (1.0% MINIMUM, 4.0% MAXIMUM) UNIFORM, WITH FINISH GRADE ON PLANS
  - E. LAWN AREAS ± 1% MINIMUM TO 25% (BERMS) MAXIMUM
14. ALL PROPOSED GRADES ARE AT THE GUTTER UNLESS OTHERWISE NOTED. SEE DETAILS FOR FACE OF CURB, TOP OF CURB, AND ASPHALT ADJUSTMENTS.
15. REFER TO UTILITY PLANS TO COORDINATE ALL:
  - A. WATER SUPPLY, METERING, SPRINKLER AND FDC PIPING, DESIGN, AND COORDINATION
  - B. BUILDING SEWER, BUILDING DRAIN DESIGN AND CONNECTIONS TO CLEAN OUTS AND ROOF CONNECTORS
  - C. GAS, ELECTRIC AND COMMUNICATION SERVICES AND LIGHTING DETAILS AND COORDINATION
  - D. ALL BUILDING ACCESS WALKS AND ENTRY DETAILS, INCLUDING SUPPORTED SLABS
  - E. ALL WORK TO CONSTRUCT THE BUILDING AND ALL ITEMS CONNECTED TO IT
16. PRIOR TO THE PLACEMENT OF ANY BASE ASPHALT OR LEVELING COURSE, THE CURBS SHALL BE PARTIALLY BACKFILLED, AND THE SUBGRADE SHALL BE PROOF ROLLED UNDER THE SUPERVISION OF THE SOILS ENGINEER.
17. ALL SIDEWALK AND PATHWAYS IN ANY PUBLIC R.O.W. SHALL BE INSPECTED BY THE AGENCY WITH JURISDICTION.



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GILCHER-CRISSMAN PARK  
PAVILION

WASHINGTON TWP.  
MACOMB COUNTY  
MICHIGAN

Date:	MARCH 2025
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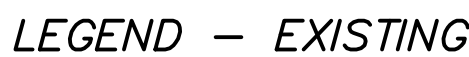
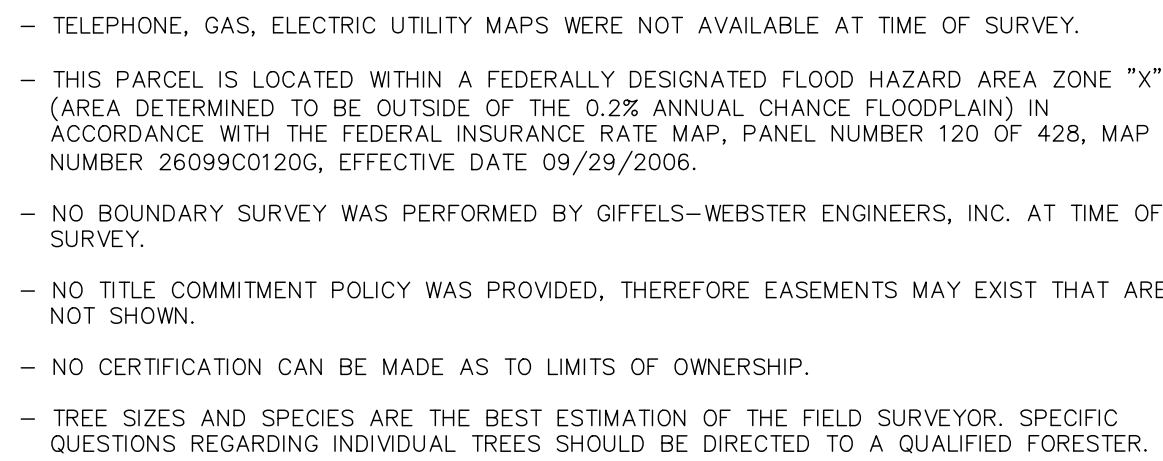
STRUCTURE	TYPE	SIZE OF PIPE	RIM	DROP	INVERT	DIRECTION	COMMENTS
50	SANITARY MANHOLE	CL/CHANNEL	857.12	-29.45	827.67	EAST/WEST	FLWS EAST
160	SANITARY MANHOLE	12"	854.40	-11.05	843.35	EAST/WEST	
			854.40	-27.50	826.90	EAST	DROP CONNECTION
		12"	854.40	-27.75	826.65	WEST	
		12"	854.40	-27.80	826.60	SOUTH	FLWS SOUTH
202	SANITARY MANHOLE	CL/CHANNEL	847.03	-12.90	834.13	NORTH/SOUTH	12" CHANNEL; FLWS SOUTH
268	SANITARY MANHOLE	12"	850.76	-9.00	841.76	WEST	
		CL/CHANNEL	850.76	-16.14	834.62	NORTH/SOUTH	FLWS SOUTH

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
































PRIOR TO THE PLANNED BUILDING IMPROVEMENTS, AND/ OR CONSTRUCTION, THE RESPECTIVE UTILITY COMPANIES MUST BE NOTIFIED TO STAKE THE PRECISE LOCATION OF THEIR UTILITIES.


























PRIOR TO THE PLANNED BUILDING IMPROVEMENTS, AND/ OR CONSTRUCTION, THE RESPECTIVE UTILITY COMPANIES MUST BE NOTIFIED TO STAKE THE PRECISE LOCATION OF THEIR UTILITIES.

ELEVATION=855.38'



- |  |                    |
|--|--------------------|
|  | SECTION LINE       |
|  | E/ PAVEMENT        |
|  | CURB               |
|  | E/ GRAVEL          |
|  | CL. ROAD           |
|  | E/ WALK            |
|  | RAILROAD           |
|  | E/ BRICK           |
|  | MISC. LINE         |
|  | FENCE              |
|  | GUARD RAIL         |
|  | BLOC. LINE         |
|  | OVERHEAD WIRES     |
|  | RAILING            |
|  | OVERHANG LINE      |
|  | T/ BANK            |
|  | B/ BANK            |
|  | CL. DITCH/STREAM   |
|  | SHRUB LINE         |
|  | TREE LINE          |
|  | WATER EDGE         |
|  | WETLAND LINE       |
|  | STORM LINE         |
|  | SAN. LINE          |
|  | WATER LINE         |
|  | GAS LINE           |
|  | UGE ELEC. LINE     |
|  | UGT                |
|  | UG TELE. LINE      |
|  | UG CABLE TV LINE   |
|  | PAINT STRIPE       |
|  | COMBINED SEWER     |
|  | PLD LINE           |
|  | STEAM LINE         |
|  | ELECTRIC OVERHEAD  |
|  | TELEPHONE OVERHEAD |

- |   |                           |
|---|---------------------------|
|  | SAN. MH                   |
|  | SAN. CLEAN OUT            |
|  | SAN. RISER                |
|  | SAN. PUMP STATION         |
|  | COMB. MH                  |
|  | GATE VALVE                |
|  | HYDRANT                   |
|  | WATER VALVE               |
|  | WATER METER               |
|  | POST INDICATOR VALVE      |
|  | WELL HEAD                 |
|  | FDC CONNECTION            |
|  | IRRIGATION CONTROL BOX    |
|  | STORM MH                  |
|  | CATCH BASIN               |
|  | BEEHIVE CB                |
|  | CULVERT E.S.              |
|  | ROOF/DOWN SPOUT           |
|  | OVERFLOW/OUTLET STRUCTURE |
|  | SAN. CLEAN OUT            |
|  | ROUND CB                  |
|  | LIGHT POLE                |
|  | UTILITY POLE              |
|  | ELEC. TRANS.              |
|  | AIR CONDITIONER           |
|  | ELEC. MH                  |
|  | ELEC. METER               |
|  | ELEC. RISER               |
|  | TRAFFIC CONTROL BOX       |
|  | STEAM MH                  |
|  | PUBLIC LIGHTING MH        |

-  GAS METER
-  GAS RISER
-  GAS VALVE
-  GAS MH
-  TEE, RISER
-  TEE, MH
-  TEE, CROSS BOX
-  CABLE RISER
-  PAY PHONE
-  MANHOLE
-  SIGN
-  PROT. POST/GUARD POST
-  GUY
-  DECIDUOUS TREE
-  CONIFEROUS TREE
-  DEAD TREE
-  UTILITY FLAG
-  BLDG. CORNER (FIELD)
-  HANDICAP PARKING
-  WETLAND FLAG
-  BUSH/SHRUB
-  PARKING METER
-  RESIDENTIAL MAILBOX
-  U.S. MAILBOX
-  EXISTING ELEVATION
-  SOIL BORING
-  MONITORING WELL
-  LAWN IRRIG. HEAD
-  CENTERLINE R.R. TRACK

- |        |                          |
|--------|--------------------------|
| ★      | MISC. TOPO. FEATURE      |
| △      | SURVEY CONTROL POINT     |
| ●      | FOUND IRON               |
| ●      | FOUND NAIL               |
| ✕      | F. CUT CROSS             |
| ⊙      | SECTION COR.             |
| ⊗      | FENCE POST               |
| ⋈      | BENCHMARK                |
| ⊙      | FOUND PIPE               |
| ●      | FOUND MON.               |
| ASPH.  | ASPHALT                  |
| CONC.  | CONCRETE                 |
| A.C.   | AIR CONDITIONER          |
| G.P.   | GUARD POST               |
| C.L.F. | CHAIN-LINK FENCE         |
| D.L.   | DOOR LEDGE               |
| F.F.   | FINISHED FLOOR           |
| H.H.   | OVERHANG                 |
| F.I.   | FOUND IRON               |
| S.I.   | SET IRON                 |
| F.I.P. | FOUND IRON PIPE          |
| (M)    | MEASURED                 |
| (R)    | RECORD                   |
| F.M.   | FOUND MONUMENT           |
| S.N.   | SET NAIL                 |
| OMP    | CORROGATED METAL PIPE    |
| RCF    | REINFORCED CONCRETE PIPE |
| G.L.   | GROUND LIGHT             |

- |        |                          |
|--------|--------------------------|
| △      | MISC. TOPO. FEATURE      |
| △      | SURVEY CONTROL POINT     |
| ●      | FOUND IRON               |
| ●      | FOUND NAIL               |
| ✕      | F. CUT CROSS             |
| ⊙      | SECTION COR.             |
| ⊙      | FENCE POST               |
| ⊙      | BENCHMARK                |
| ⊙      | FOUND PIPE               |
| ●      | FOUND MON.               |
| ASPH.  | ASPHALT                  |
| CONC.  | CONCRETE                 |
| A.C.   | AIR CONDITIONER          |
| G.P.   | GUARD POST               |
| C.L.F. | CHAIN-LINK FENCE         |
| D.L.   | DOOR LEDGE               |
| F.F.   | FINISHED FLOOR           |
| O.H.   | OVERHANG                 |
| F.I.   | FOUND IRON               |
| S.I.   | SET IRON                 |
| F.I.P. | FOUND IRON PIPE          |
| (M)    | MADEUP                   |
| (R)    | RECORD                   |
| F.M.   | FOUND MONUMENT           |
| S.N.   | SET NAIL                 |
| CMP    | CONCRETE METAL PIPE      |
| RCP    | REINFORCED CONCRETE PIPE |
| G.L.   | GROUND LIGHT             |

Know what's below.  
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GILCHER-CRISSMAN PARK  
PAVILION

WASHINGTON TWP  
MACOMB COUNTY  
MICHIGAN

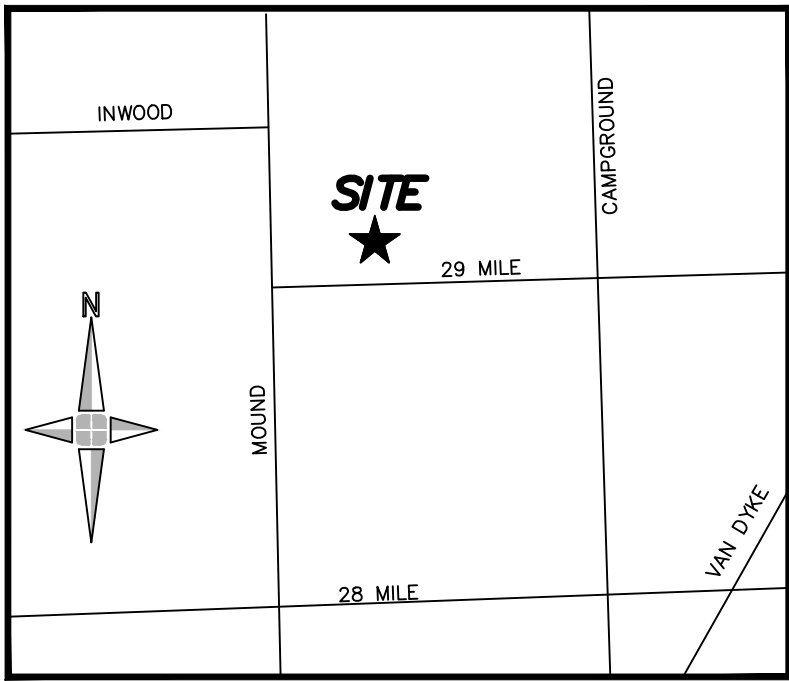
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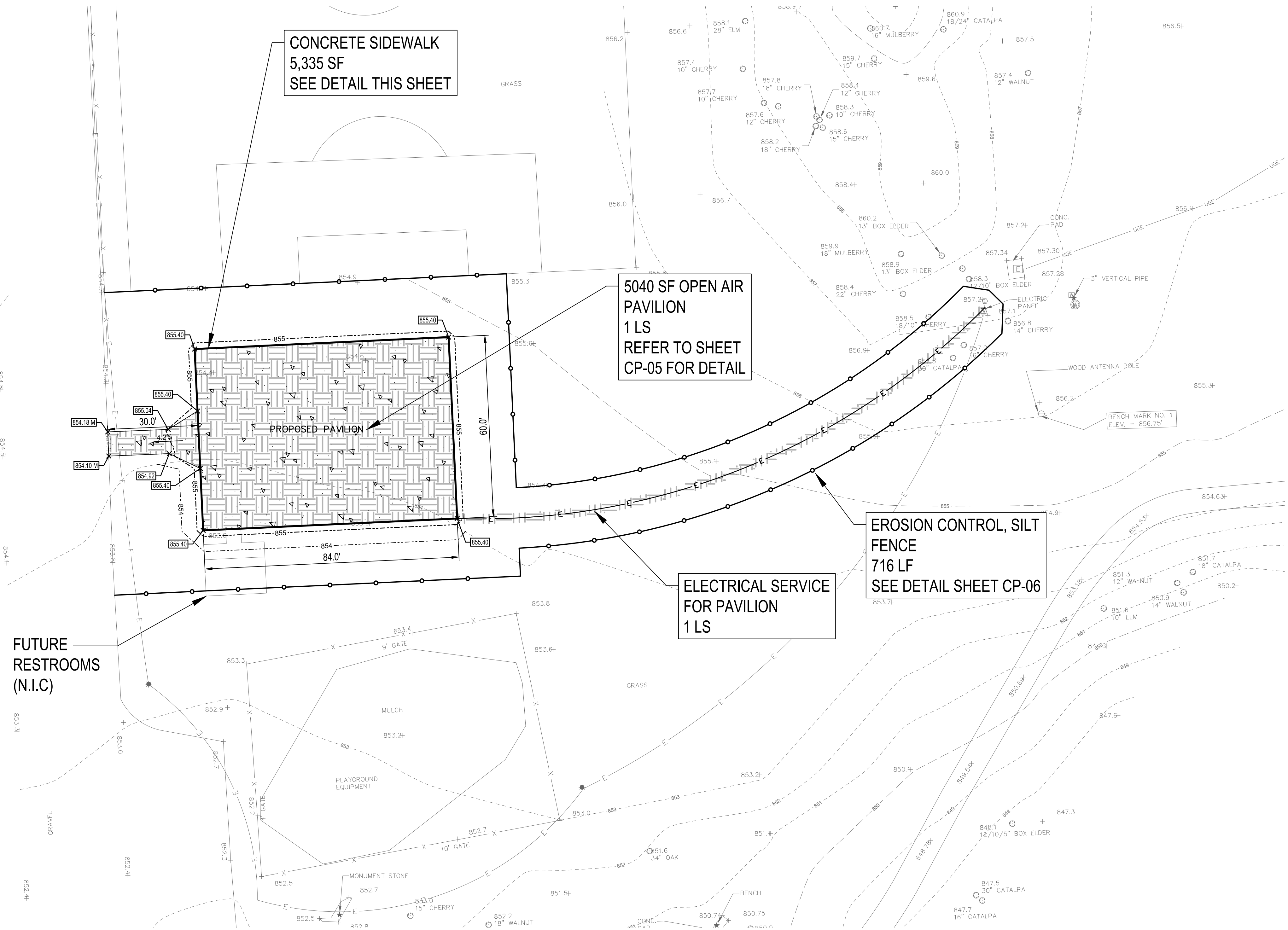
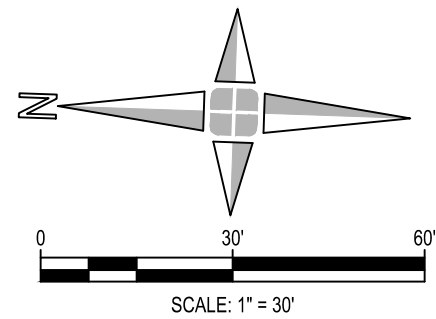


QUANTITIES THIS SHEET

NON HAZ CONTAMINATED MATERIAL HANDLING AND DISPOSAL, LM	185 CYD
CLEAN FILL	70 CYD
TOPSOIL SURFACE, SALV, 6 INCH	657 SYD
EROSION CONTROL, SILT FENCE	716 LF
SIDEWALK, CONC, 4 INCH	5335 SF
AGGREGATE BASE, 4 INCH, CL II SAND	593 SYD
SUBGRADE UNDERCUTTING, TYPE II, MODIFIED	125 CYD
5040 SF OPEN AIR PAVILION	1 LS
ELECTRICAL SERVICE FOR PAVILION	1 LS

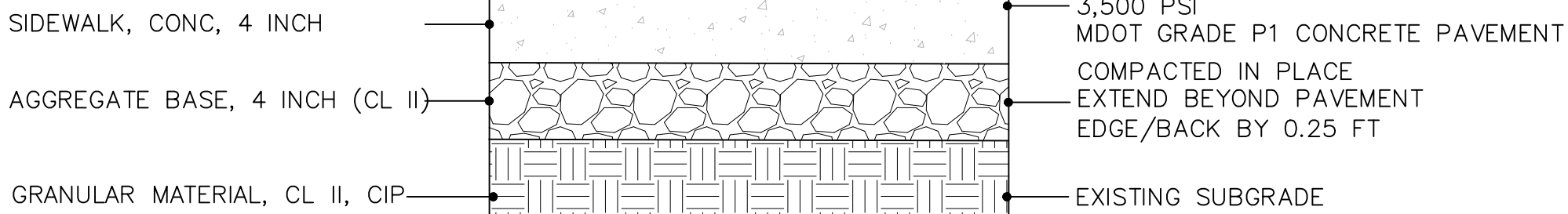


LOCATION MAP  
( NOT TO SCALE )



NOTES:

- CONTRACTOR TO REVIEW ENVIRONMENTAL REPORTS DATED APRIL 20, 1999 AND OCTOBER 17, 2003 PREPARED BY McDOWELL & ASSOCIATES, JULY 22, 1999 BY THE DEQ, AND SEPTEMBER 23, 2003 BY PEA GROUP REGARDING EXISTING SOIL CONDITIONS AND RESTRICTIONS. PRECAUTIONS MUST BE TAKEN DURING CONSTRUCTION TO PREVENT CONTAMINATED SOIL AND/OR GROUNDWATER FROM ENTERING UTILITY SYSTEM OR MIGRATING OFFSITE. EXISTING SOILS ARE NOT TO BE REUSED ON SITE WITHOUT 1 FOOT OF CLEAN TOPSOIL EXPOSED TO SURFACE. EXISTING MATERIAL MUST BE REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL FACILITY. TESTING (BY OWNER) MAY BE REQUIRED.
  - ESTIMATED VOLUME OF EXCESS EXCAVATED MATERIAL TO BE DISPOSED OF: 185 CYD
    - DISPOSED VOLUME IS ALL MATERIAL LEFT FROM EXCAVATION FOR ELECTRICAL TRENCH, SUBGRADE UNDERCUTTING, AND PAVILION FOOTINGS THAT CANNOT BE USED ON SITE DUE TO THE REQUIREMENT THAT 1' OF CLEAN TOPSOIL BE PLACED AT SURFACE. THIS QUANTITY DOES NOT INCLUDE THE 6 INCHES OF TOPSOIL TO BE SALVAGED AND CAN BE RE-USED ON SITE.
  - ESTIMATED VOLUME OF CLEAN FILL/TOPSOIL REQUIRED TO BE BROUGHT TO SITE: 70 CYD
    - THIS QUANTITY ASSUMES THAT ALL OF THE SALVAGED TOPSOIL CAN BE USED AS CLEAN FILL.
- ELECTRICAL SERVICE FOR PAVILION SHALL INCLUDE CONNECTING TO EXISTING PANEL AND WIRING OF THE PAVILION TO INCLUDE TWO (2) GFCI OUTLETS AND SUFFICIENT LIGHTING (INCLUDING FIXTURES) UNDER THE PAVILION.
  - CONTRACTOR TO SUBMIT ELECTRICAL PLAN TO GIFFELS WEBSTER AND WASHINGTON TOWNSHIP BUILDING DEPARTMENT FOR APPROVAL.
  - CONTRACTOR TO VERIFY WHETHER THE EXISTING ELECTRICAL PANEL CAN HANDLE THE NEW LOADS PRIOR TO BIDDING. NOTE THAT THERE IS A CONTRACT TO BE COMPLETED SUMMER 2025 TO CONNECT THE ELECTRICAL FOR 7 NEW PARKING LOT AREA LIGHTS AND 14 SECURITY CAMERAS TO THE PANEL.
  - CONTRACTOR TO PROVIDE A MINIMUM OF 2 CIRCUITS AT THE CORNER OF THE PAVILION TO BE USED FOR FUTURE LIGHTING WITHIN STRUCTURE.

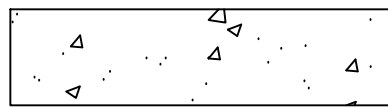


CONCRETE SIDEWALK

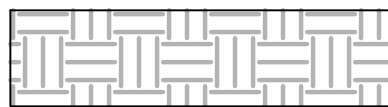
NOTES:

- BROOM FINISH CONCRETE SURFACE.
- SEE MUNICIPAL DETAILS FOR CONCRETE JOINTING PLAN AND PLACEMENT OF EXPANSION JOINTS.
- SAWCUT CONCRETE JOINTS AS SOON AS PAVEMENT CAN SUPPORT MACHINE.

SHEET LEGEND



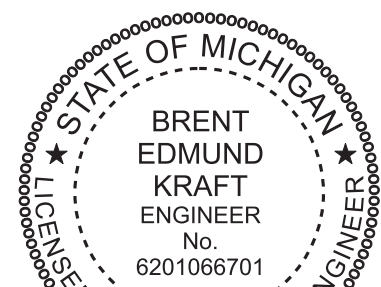
CONCRETE SIDEWALK



TOPSOIL SURFACE, SALV, 6 INCH

Executive:	M.K.
Manager:	B.K.
Designer:	B.D.M.
Quality Control:	B.K. / M.K.
Section:	16
	T-04-N R-12-E

Professional Seal:



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SITE PLAN

GILCHER-CRISSMAN PARK  
PAVILION

WASHINGTON TWP.  
MACOMB COUNTY  
MICHIGAN

Date:	MARCH 2025
Scale:	1" = 20'
Sheet:	CP-04
Project:	20408.00



DRAWINGS ARE NOT TO SCALE

1. CONSTRUCTION IS TO INCLUDE ALL WORK ASSOCIATED WITH BUILDING A COMPLETE PAVILION AS SHOWN ON THE PLANS. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, BUILDING MATERIALS, AGGREGATE BASE, CONCRETE FOUNDATION, STEEL REINFORCEMENT, ROOFING, ETC. ITEM INCLUDES CONSTRUCTION OF THE ENTIRE SYSTEM.
2. DESIGN AND SUBMITTAL FOR BUILDING DEPARTMENT REVIEW AND APPROVAL IS ALSO REQUIRED. CONTRACTOR TO PROVIDE DOCUMENTATION ON BUILDING SUPPLIER OTHER THAN COVERWORX FOR REVIEW AND APPROVAL.
3. CONTRACTOR TO COORDINATE WITH PAVILION MANUFACTURER AND GIFFELS WEBSTER/OWNER TO DETERMINE FINAL LOCATION OF ALL OUTLET AND LIGHTING CUTOUTS.

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Z:\20408.01 Gilcher-Crissman Pavilion\Design\CAD\Work Sheets\CP-05 Details.dwg



1. REFER TO GENERAL NOTES ON SHEET CP-02 FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES

- ### ADDITIONAL EROSION CONTROL NOTES

- TEMPORARY STABILIZATION SHALL BE REPAIRED AS OFTEN AS NECESSARY, AS DETERMINED BY THE AGENCY WITH JURISDICTION.



NOTE:  
TEMPORARY SEDIMENT INLET FILTER TO BE INSTALLED ON ALL  
PAVED CATCH BASINS OR STORM INLETS, OR AS SPECIFIED ON  
THE SOIL EROSION CONTROL PLAN. INLET FILTER TO BE SIMILAR  
TO "CATCH-ALL" AS MANUFACTURED BY SMARATHON MATERIALS,  
INC. (800-983-9493) OR "SILTSCAK" AS MANUFACTURED BY  
ATLANTIC CONSTRUCTION FABRICS, INC., (800-448-3636).  
CLEAN FILTER AS NEEDED, OR AS REQUIRED BY THE SOIL  
EROSION CONTROL PLAN.

SEDIMENT INLET FILTER

S OF DISTURBED AREA

IMENT CONTROL FENCE

NOTE:  
CONSTRUCTION ACCESS IS FROM EXISTING 29 MILE ROAD

CHARTER TOWNSHIP OF WASHINGTON  
57900 VAN DYKE  
WASHINGTON, MI 48094  
(586) 786-0010 p  
(586) 786-0404 f  
ATTN: RICH AMORMINO DPW DIRECTOR

BrB BOYER LOAMY SAND, 2-6% SLOPES  
LeB LAPEER SANDY LOAM, 2-6% SLOPES

NAME OF NEAREST COUNTY DRAIN: MOUNT VERNON DRAIN  
NAME OF NEAREST WATERCOURSE: MOUNT VERNON DRAIN  
DISTANCE TO NEAREST WATERCOURSE: 10,000 Ft

SILT FENCE JUNE 2025  
EXCAVATION JULY 2025  
UNDERGROUND UTILITIES JULY 2025  
PAVEMENT CONSTRUCTION JULY–DECEMBER 2025  
LANDSCAPING/RESTORATION APRIL 2026  
CLEAR SILT/REMOVE EROSION CONTROL DEVICES APRIL 2026

## JUNE 2025

## APRIL 2026

6491 29 MILE RD. PARCEL 24-04-16-326-003  
AREA TO BE DISTURBED = 0.28 ACRES +/- (TOTAL) PROJECT  
CONSTRUCTION AREA

1. DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED DOWN FOR DUST CONTROL.
2. THE CONTRACTOR SHALL SWEEP THE EXISTING STREETS SURROUNDING THE PROJECT SITE ONCE A WEEK, OR AS DIRECTED BY THE ENGINEER OR INSPECTOR. STREET SCRAPING SHALL BE PERFORMED IN CONJUNCTION WITH THIS SWEEPING ON AN AS NEEDED BASIS.

DEWATERING IS NOT ANTICIPATED FOR THIS SITE.  
STOCKPILING IS NOT ANTICIPATED FOR THIS SITE.

1. OBTAIN MACOMB COUNTY PUBLIC WORK SOIL EROSION PERMIT.
2. INSTALL SILT FENCE AND INLET FILTERS AT ALL EXISTING LOCATIONS AS SHOWN AND AS REQUIRED TO ACHIEVE ON-SITE CONTAINMENT.
3. INSTALL UNDERGROUND UTILITIES AND ALL ASSOCIATED IMPROVEMENTS AS SHOWN ON PLANS.
4. INSTALL PAVEMENT BACKFILL AND SEED & MULCH ALL DISTURBED AREAS.
5. CLEAR ALL ACCUMULATED SILT AND REMOVE ALL EROSION CONTROL DEVICES.
6. INSTALL LANDSCAPING MATERIALS AS INDICATED PER PLANS & RE-SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS.

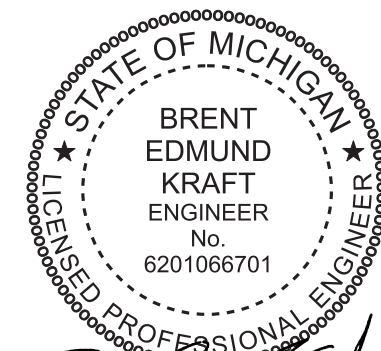
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webster

Engineers  
Surveyors  
Planners  
Landscape Architects

6303 26 Mile Road  
Suite 100  
Washington Twp, MI 48094  
p (586) 781-8950  
f (313) 962-5068  
[www.giffelswebster.com](http://www.giffelswebster.com)

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Date:	MARCH 2025
Scale:	NONE
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Project:	20408.00

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