WASHINGTON, BRUCE & ROMEO PARKS & RECREATION COMMISSION GILCHER-CRISSMAN PARK PAVILION

OWNER

WASHINGTON, BRUCE AND ROMEO PARKS AND RECREATION COMMISSION 361 MORTON STREET ROMEO, MI 48065

WASHINGTON TOWNSHIP, MACOMB COUNTY, MICHIGAN SECTION 16 T-04-N, R-12-E

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UTILITY STATEMENT

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.

(R) = UTILITY SHOWN FROM RECORDS OR PLANS, & FIELD LOCATED WHERE POSSIBLE.

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

giffels to webster

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T-04-N R-12-E





DATE:	ISSUE:
04.15.2025	FOR BID

WASHINGTON, BRUCE, 8
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RECREATION
COMMISSION
361 MORTON STREET
ROMEO, MI 48065

COVER SHEET

https://rwbparksrec.org/ P: (586) 752-6543

GILCHER-CRISSMAN PARK PAVILION

WASHINGTON TWP.
MACOMB COUNTY
MICHIGAN

Date:	MARCH 2025
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GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE CHARTER TOWNSHIP OF WASHINGTON, AND ANY/OR OTHER

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 CONTROLLED 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 TIRES. 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 BUSINESSES 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

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 NAVD88 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, MAILBOXES, 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:

A. ASPHALT 1. ROADS - 8" MDOT 5/4/2E3 ASPHALT-21AA BASE

2. DRIVES - 4" MDOT 1100 ASPHALT-21AA BASE

3. PATHS - 4" MDOT 1100 ASPHALT -22A BASE

B. CONCRETE

1. ROADS - 6" 3500 PSI CONCRETE-21AA BASE

2. DRIVES - 6" 3500 PSI CONCRETE-21AA BASE 3. PATHS - 4" 3500 PSI CONCRETE-CL II BASE

C. GRAVEL

1. ROADS - 12" MDOT 22A GRAVEL

2. DRIVES - 12" MDOT 21AA GRAVEL

17. ALL LOT MARKERS AND MONUMENT POINTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

18. FINAL CLEANUP AND RESTORATION SHALL CONSIST OF FINE GRADING OF CONSTRUCTION AREAS, REMOVAL OF CONSTRUCTION SIGNS, ETC. TOPSOIL SHALL BE SPREAD OVER ALL DISTURBED AREAS, FOLLOWED BY SEED, FERTILIZER AND EROSION MAT OR STRAW MULCH, OR AS FURTHER REQUIRED BY THE CONTRACT DOCUMENTS. ALL REQUIRED RESTORATION ITEMS NOT SPECIFICALLY IDENTIFIED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

19. THE UTILITY POLES SHOWN ON THESE DRAWINGS ARE INTENDED TO SHOW ONLY THE LOCATION OF EXISTING POLES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE QUANTITY AND DIRECTION OF OVERHEAD LINES. THE COST FOR SUPPORTING AND RELOCATING POLES SHALL BE INCIDENTAL TO THE PROJECT.

20. THE MEANS AND METHODS OF CONTROLLING GROUNDWATER AND DEWATERING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL COST ASSOCIATED WITH DEWATERING SHALL BE INCIDENTAL TO THE CONTRACT.

DEMOLITION NOTES

GENERAL LEGEND

UNDERGROUND ELECTRIC LINES

UNDERGROUND TELEPHONE LINES

UNDERGROUND CABLE TELEVISION LINES

CONCRETE CURB AND GUTTER (STANDARD)

CONCRETE CURB AND GUTTER (REVERSED)

STORM SEWER

WATER MAIN

GAS MAIN

SANITARY SEWER

OVERHEAD LINES

STEAM LINES

FENCE LINE

STORM MANHOLE

CATCH BASIN

YARD BASIN

INLET BASIN

END SECTION

ROOF/DOWN SPOUT

STORM CLEAN OUT

SANITARY MANHOLE

SANITARY CLEAN OUT

SANITARY PUMP STATION

SANITARY RISER

OVERFLOW/OUTLET STRUCTURE

PUBLIC LIGHTING LINES

PROJECT PHASE LIMIT LINE

THICKENED SLAB CURB/WALK

. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS AND RESPONSIBILITIES.

2. WITH THE EXCEPTION 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

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

PROPOSED

_____CTV_____

GATE VALVE

FIRE HYDRANT

STOP BOX AND VALVE

POST INDICATOR VALVE

IRRIGATION CONTROL BOX

LAWN IRRIGATION HEAD

FDC CONNECTION

WATER METER

WELL HEAD

GAS VALVE

GAS RISER

GAS METER

LIGHT POLE

CABLE RISER

UTILITY POLE

ELECTRIC MANHOLE

ELECTRIC RISER

ELECTRIC METER

ELECTRIC TRANSFORMER

TELEPHONE MANHOLE

TELEPHONE CROSS BOX

TRAFFIC CONTROL BOX

PUBLIC LIGHTING MANHOLE

AIR CONDITIONER

TELEPHONE RISER

GAS MANHOLE

8. THE REMOVAL OF PAVEMENT, CURBS, AND WALKS SHALL INCLUDE ALL REQUIRED SAWCUTTING. CURB REMOVAL IS INCIDENTAL TO PAVEMENT REMOVAL.

EXISTING

----- SAN -----

——— UGE ———

----- UGT ------

____ CTV_____

———— PLD————

----- STEAM -----

— x —

—— MT2 ——

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 PROCTER 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 PIPE WORK. 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, CLEANOUTS, 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 DI. INSTALL ADDITIONAL BENDS AS NEEDED (INCIDENTAL).

MACOMB COUNTY DEPARTMENT OF ROADS

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 TO 95% PROCTOR.

5. ALL EXISTING STORM CULVERT AND END SECTIONS SCHEDULED FOR REPLACEMENT SHALL BE OF EQUAL SIZE AND MATERIAL. 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 4-5 IN THE MCDR SUBDIVISION DEVELOPMENT PROCEDURES, STANDARD & SPECIFICATIONS. 7. THE CONSTRUCTION OF A PAVED RESIDENTIAL APPROACH ON ALL PRIMARY AND LOCAL ROAD SYSTEMS SHALL CONSIST OF A MINIMUM OF 6" OF CONCRETE PLACED ON A SAND SURFACE (MDOT CLASS II SAND MINIMUM) OF 4" OR A MINIMUM OF 4" OF ASPHALT PLACED ON 6" OF 21AA AGGREGATE BASE COMPACTED TO 95% MAXIMUM DENSITY.

CHARTER TOWNSHIP OF WASHINGTON

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 00 OF THE PROJECT MANUAL

SAN. MH

Oc.o. SAN. CLEAN OUT

P.S. SAN. PUMP STATION

SAN. RISER

(C) COMB. MH

HYDRANT

■ WATER VALVE

WELL HEAD

STORM MH

CATCH BASIN

BEEHIVE CB

CULVERT E.S.

ROOF/DOWN SPOUT

Oc.o. STORM CLEAN OUT

ELEC. TRANS.

ELEC. MH

ELEC. METER

ELEC. RISER

(L) PUBLIC LIGHTING MH

(ST) STEAM MH

AIR CONDITIONER

TRAFFIC CONTROL BOX

ROUND CB

LIGHT POLE

Ø UTILITY POLE

FDC CONNECTION

WATER METER

POST INDICATOR VALVE

W IRRIGATION CONTROL BOX

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.

G GAS METER

GAS RISER

GAS GAS VALVE

TELE. RISER

CABLE RISER

\$ PAY PHONE

MANHOLE

- SIGN

< GUY

T TELE. CROSS BOX

O PROT. POST/GUARD POST

★ BLDG. CORNER (FIELD LOCATED)

HANDICAP PARKING

DECIDUOUS TREE

CONIFEROUS TREE

₩ WETLAND FLAG

BUSH/SHRUB

U.S. MAILBOX

000.00+6 EXISTING ELEVATION

SOIL BORING

MONITORING WELL

→ LAWN IRRIG. HEAD

▲ CENTERLINE R.R. TRACK

PARKING METER

RESIDENTIAL MAILBOX

DEAD TREE

CUT FLAG UTILITY FLAG

T) TELE. MH

G GAS MH

7. INSTALL TRAFFIC CONTROL PER MDOT, MMUTCD, AND MCDR STANDARDS

RAILROAD

— — — — — — — OVERHANG LINE

----- CL DITCH/STREAM

----- WETLAND LINE

WATER LINI

— UGT — UG TELE. LINE

PAINT STRIPE

----- CTV------ UG CABLE TV LINE

—\\\ ELECTRIC OVERHEAD

TEL—TELEPHONE OVERHEAD

PLD PLD PLD LINE

____ EX ROW

— — — — — — EX PARCEL LINE

— STEAM — STEAM LINE

· SHRUB LINE

STM — STORM LINE

. TREE LINE

---- T/ BANK

OH OVERHEAD WIRES

---- E/ BRICK

PAVING AND GRADING NOTES **LEGEND - EXISTING**

EXISTING

× 150.23

ASPHALT

CONCRETE

AIR CONDITIONER

GUARD POST

CHAIN-LINK FENCE

DOOR LEDGE

FINISHED FLOOR

OVERHANG

FOUND IRON

SET IRON

FOUND IRON PIPE

MEASURED RECORD

FOUND MONUMENT

SET NAIL

PROPOSED

•

*

×XXXXX

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

EXISTING

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

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) UNIFORMLY BETWEEN 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.

GUY WIRE ANCHOR

GUARD POST/BOLLARD

RESIDENTIAL MAILBOX

BLDG CORNER (FIELD LOCATED)

UTILITY FLAG

SIGN POST

FENCE POST

PAY PHONE

PARKING METER

U.S. MAILBOX

WETLAND FLAG

SPOT ELEVATION

SOIL BORING

TREE

ASPH.

CONC.

A.C.

G.P.

C.L.F.

D.L.

F.F.

O.H.

F.I.

F.I.P.

M. R.

F.M.

S.N

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

PROPOSED

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.

DEMOLITION LEGEND

EROSION CONTROL LEGEND DRAINAGE AREA SEDIMENT INLET FILTER MUD MAT ENTRANCE

CHECK DAM SEDIMENT CONTROL FENCE

DRAINAGE AREA LINE

PAVING AND GRADING HATCH LEGEND

PICKLEBALL COURT HMA

SIDEWALK, CONC, 4 INCH

COMPACTED CL II SAND BACKFILL

Survevors Planners Landscape Architects

6303 26 Mile Road

Washington Twp, MI 48094 p (586) 781-8950 f (313) 962-5068

www.giffelswebster.com

M.K. Executive: B.K. Manager: B.D.M. Designer Quality Control: B.K. / M.K.

Section: 16 T-04-N R-12-E

Professional Seal:

★ MISC. TOPO. SHOT

FOUND IRON

★ FOUND NAIL

*X F. CUT CROSS

SECTION COR.

FENCE POST

FOUND PIPE

S BENCHMARK

FOUND MON.

ASPH. ASPHALT

CONC. CONCRETE

A.C. AIR CONDITIONER

C.L.F. CHAIN-LINK FENCE

G.P. GUARD POST

D.L. DOOR LEDGE

O.H. OVERHANG

F.I. FOUND IRON

S.I. SET IRON

M. MEASURED

R. RECORD

S.N. SET NAIL

G.L. GROUND LIGHT

F.I.P. FOUND IRON PIPE

F.M. FOUND MONUMENT

CMP CORREGATED METAL PIPE

RCP REINFORCED CONCRETE

F.F. FINISHED FLOOR

△ SURVEY CONTROL POINT

BRENT EDMUND KRAFT ENGINEER 6201066701



DATE: ISSUE: 4.15.2025 FOR BID

WASHINGTON, BRUCE, ROMEO PARKS AND RECREATION COMMISSION **361 MORTON STREET**

ROMEO. MI 48065

https://rwbparksrec.org/

P: (586) 752-6543

GENERAL NOTES & LEGEND

GILCHER-CRISSMAN PARK PAVILION

> WASHINGTON TWP. MACOMB COUNTY MICHIGAN

MARCH 2025 NONE Scale: CP-02 20408.00 Project:

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SCHEDULE OF STRUCTURES							
STRUCTURE	TYPE	SIZE OF PIPE	RIM	DROP	INVERT	DIRECTION	COMMENTS
50	SANITARY MANHOLE	CL/CHANNEL	857.12	-29.45	827.67	EAST/WEST	FLOWS EAST
		12"	854.40	-11.05	843.35	EAST/WEST	
160 SANITARY MANHOLE		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	FLOWS SOUTH	
202	SANITARY MANHOLE	CL/CHANNEL	847.03	-12.90	834.13	NORTH/SOUTH	12" CHANNEL; FLOWS SOUTH
	12"	850.76	-9.00	841.76	WEST		
268 SANITARY MANHOLE		CL/CHANNEL	850.76	-16.14	834.62	NORTH/SOUTH	FLOWS SOUTH

UTILITY STATEMENT

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.

(R) = UTILITY SHOWN FROM RECORDS OR PLANS, & FIELD LOCATED WHERE POSSIBLE.

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

BENCH MARK DATA

(NAVD88) DATUM

BENCH MARK NO. BM-16 GILCHER

MONUMENT IN MON. BOX LOCATED ON THE NORTH SIDE OF 29 MILE ROAD ±280' WEST OF THE PARK ENTRANCE. (NOT SHOWN GRAPHICALLY)

ELEVATION=856.64'

BENCH MARK NO. 1

SET MAG NAIL WITH GW TAG #82136 IN THE WEST FACE OF WOOD ANTENNA UTILITY POLE LOCATED ±468' NORTHWEST OF THE INTERSECTION OF .

ELEVATION=856.75'

BENCH MARK NO. 2

SET MAG NAIL WITH GW TAG #82137 IN THE EAST FACE OF 60" CATALPA NEAR THE NORTHEST CORNER OF THE PLAYSCAPE.

GRASS 힘문

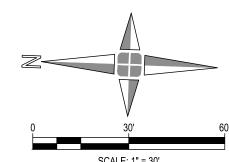
ELEVATION=853.16'

BENCH MARK NO. 3

SET MAG NAIL IN THE NORTH FACE OF U-POLE ON THE NORTH SIDE OF 29 MILE ROAD APPROXIMATELY 110' EAST OF CENTERLINE OF SOMERSET BOULEVARD.

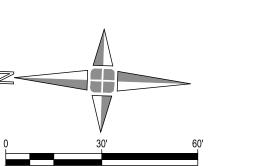
ELEVATION=855.38'





NOTES:

- TELEPHONE, GAS, ELECTRIC UTILITY MAPS WERE NOT AVAILABLE AT TIME OF SURVEY.
- THIS PARCEL IS LOCATED WITHIN A FEDERALLY DESIGNATED FLOOD HAZARD AREA ZONE "X" (AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN) IN ACCORDANCE WITH THE FEDERAL INSURANCE RATE MAP, PANEL NUMBER 120 OF 428, MAP
- NO TITLE COMMITMENT POLICY WAS PROVIDED, THEREFORE EASEMENTS MAY EXIST THAT ARE NOT SHOWN.
- NO CERTIFICATION CAN BE MADE AS TO LIMITS OF OWNERSHIP.
- TREE SIZES AND SPECIES ARE THE BEST ESTIMATION OF THE FIELD SURVEYOR. SPECIFIC QUESTIONS REGARDING INDIVIDUAL TREES SHOULD BE DIRECTED TO A QUALIFIED FORESTER.



★ MISC. TOPO. FEATURE

△ SURVEY CONTROL POINT

FOUND IRON

★ FOUND NAIL

"X" F. CUT CROSS

SECTION COR.

⊙ FENCE POST

S BENCHMARK

⊙ FOUND PIPE

FOUND MON.

ASPH. ASPHALT

CONC. CONCRETE

A.C. AIR CONDITIONER

C.L.F. CHAIN-LINK FENCE

G.P. GUARD POST

D.L. DOOR LEDGE

O.H. OVERHANG

S.I. SET IRON

(M) MEASURED

(R) RECORD

S.N. SET NAIL

F.F. FINISHED FLOOR

F.I.P. FOUND IRON PIPE

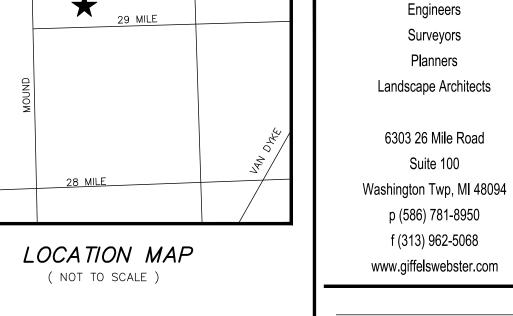
F.M. FOUND MONUMENT

G.L. GROUND LIGHT

CMP CORREGATED METAL PIPE

RCP REINFORCED CONCRETE PIPE

- NUMBER 26099C0120G, EFFECTIVE DATE 09/29/2006.
- NO BOUNDARY SURVEY WAS PERFORMED BY GIFFELS-WEBSTER ENGINEERS, INC. AT TIME OF



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

M.K.

Professional Seal:





DATE:	ISSUE:
04.15.2025	FOR BID
	1

Developed For: WASHINGTON, BRUCE, & ROMEO PARKS AND RECREATION COMMISSION 361 MORTON STREET ROMEO, MI 48065

> **EXISTING** CONDITIONS

https://rwbparksrec.org/

P: (586) 752-6543

GILCHER-CRISSMAN PARK

PAVILION

WASHINGTON TWP. MACOMB COUNTY MICHIGAN

Date:	MARCH 2025
Scale:	1" = 30'
Sheet:	CP-03
Project:	20408.00

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	×	857.0 + 857.2 + 8	57.6+ 857.6+			856.1+
				857.4	856.8 856.6	OSO.IT
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		858	8	857	*	⊕856.3 30" MAPLE
			861. –			856.8 ○
		858.9 ₄ / 858.1 ₀ 858.1 ₀ 858.9 ₄ / 28" ELM	#861.9 860.9 18/24" CATALPA	 		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		333.2	. 16" MIII DEDD 🗫 /	856.5 	856.6 +	15RCP" W 4856.4 END SECTION 1NV.≥853.31
		857.4 10" CHERRY	859.70 15" CHERRY	<u> </u> 		857.0
		857.7 18"\CHERRY	858.4 *859.6 \	 		× / 4
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	854.7+	855.8		-3" VERTICAL PIPÉ	⁴⁶	
		`\		/ / /		
	ω 7. 855.0t	\	22" CHERRY 857.2 ELECTRIC 858.5 ELECTRIC 858.5 ELECTRIC 856.8 14" CHERRY	/ /		
	854.4+	× 855.3+ 855.8+	857.5 O 16" CHERRY			
		856	30" CATALPAWOO	D ANTENNA POLE	855.8+	856. 11
	354.5 4.5		856.2	855.3+		
	¥		855.9+	BENCH MARK NO. 1 ELEV. = 856.75'	_\ \	
	854.3+	855.# 		965		
	/ 854			25.10	854.32+ 854.79+ 854.97+ ASPHALT	855.1H 855.09H 854.94H
	1. 853.6+ 853.6+		854.9+	854.63+ 854.40+	ASPHALT	033.1F
			/		853.3 853.0+ © 24" WALNUT 854.6+	15R END SE INV.=8
			854	851.7 851.3 •• 18" CAJALPA 12" WALNUT 850.9 850.2+ 32" v •• 851.6 14" WALNUT	7 853.0 ⊕ ⊕ 853.3 24" WALNUT 30" WALNUT	€854.7 18" CATALPA €85454.0+ 24" WALNUT
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	X <u>853.4</u> 9' GATE 853.6+	853.9+		0 851:6 14" WALNUT 10" ELM		
	033.01		84.8	50,		
	m m m m	GRASS		849-		
	MULCH 853.2+					
	8852.		/ // // 84	- 7 .6+		LECEND
	PLAYGROUND EQUIPMENT	853.2 † /	850.1			LEGEND -
	RA 4 8 8 5 2 2 2 3 4 4 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	153 853 853				
	X 1852.7 X 10' GATE	D000	848 16 +			
	4. &	851. 11/ 351.6 34" OAK	848.1 0 + 847.3 12/10/5" BOX ELDER			
	852.5 MONUMENT STONE 852.7	802	// 8 ¹⁰ //			
	853.0 851.5+ 015" CHERRY 852.2	BENCH /	847.5 030" CATALPA 847.7 16" CATALPA			
	852.8	CONC. 850.74 850.75 95^,5 9850.9 48" WALNUT	847.7" 16" CATALPA			x
	ELEV. = 853.16' 60" CATALPA 851.0	850.62 849.9+	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	851.0 851.0 10" CATALPA 851.8 20" CATALPA 851.1 F 851.6 +	50.7	GRASS			——————————————————————————————————————
	851.8 TO CATALPA 20" CATALPA 851.6 + Co 851.7	ALPA 850 850.20 CATALPA 20" CATALPA 3.26				
	/ 37-					
	850.66+ 850.27+ 850.27+ 840.96	848.25 (202) 846.9+	CAN	NA? NA?	10" SEWER SAN	SAN
- SAN	SAN + 851.65+ 851.38 10" SEWER 268	ASPHALT 848.849 N SAN TO" SEWER	SAN ————————————————————————————————————	— SHIN — SAIN	One Orin	· man
ASFRALI 052.111	GRASS / P. 851.5+ 852.4 950.01					
	851.9+ 850.94					STM
	HALT SEWE					——————————————————————————————————————
	ASF 10					———— GAS ————— UGE
						———— UGT ———— CTV———

LEGEND — EXISTING

	SECTION LINE
	E/ PAVEMENT
	•
	E/ GRAVEL
	CL ROAD
	E/ WALK
444444444444444444444444444444444444444	
	MISC. LINE
x	FENCE
_ 0 0 0 0	GUARD RAIL
·]·]·]·]·]·]·]·]·]·]·]·]·]·]·	WALL
<u>/////////////////////////////////////</u>	BLDG. LINE
——————————————————————————————————————	OVERHEAD WIRES
	RAILING
	OVERHANG LINE
	T/ BANK
	B/ BANK
· · ·	
· mmmmmmmmmmmm ·	
. ——	TREE LINE
	WATER EDGE
· · ·	WETLAND LINE
	STORM LINE
W	
——— GAS ————	
——— UGE ———	
———— UGT ————	
CTV	UG CABLE TV LINE

----- STEAM ------ STEAM LINE

- PAINT STRIPE

TELEPHONE OVERHEAD (L) PUBLIC LIGHTING MH

Oc.o. SAN. CLEAN OUT ⚠ GAS RISER GAS GAS VALVE 🗟 SAN. RISER P.S. SAN. PUMP STATION G GAS MH ⚠ TELE. RISER C COMB. MH SATE VALVE T TELE. MH HYDRANT TELE. CROSS BOX ₩ATER VALVE CABLE RISER ⟨W⟩ WATER METER PAY PHONE POST INDICATOR VALVE WELL HEAD > FDC CONNECTION igoplus storm mh CATCH BASIN BEEHIVE CB CULVERT E.S. ® ROOF/DOWN SPOUT OC.O. STORM CLEAN OUT ROUND CB LIGHT POLE

S SAN. MH

Ø UTILITY POLE E ELEC. TRANS. AIR CONDITIONER ELEC. MH ELEC. METER 📤 ELEC. RISER C TRAFFIC CONTROL BOX — /w /w /w ELECTRIC OVERHEAD ST STEAM MH

 MANHOLE ─ SIGN W IRRIGATION CONTROL BOX ⊙ PROT. POST/GUARD POST < GUY DECIDUOUS TREE CONIFEROUS TREE 💢 DEAD TREE CUT FLAG UTILITY FLAG ★ BLDG. CORNER (FIELD LOCATED) F.I. FOUND IRON 5 HANDICAP PARKING

 ¥ WETLAND FLAG ₿ BUSH/SHRUB PARKING METER ☐ RESIDENTIAL MAILBOX U.S. MAILBOX 000.00+6 EXISTING ELEVATION SOIL BORING MONITORING WELL

G GAS METER

→ LAWN IRRIG. HEAD

▲ CENTERLINE R.R. TRACK



NON HAZ CONTAMINATED MATERIAL HANDLING AND DISPOSAL, LM 185 CYD 70 CYD CLEAN FILL 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 SUBBGRADE UNDERCUTTING, TYPE II, MODIFIED 125 CYD 5040 SF OPEN AIR PAVILION 1LS

1 LS

ELECTRICAL SERVICE FOR PAVILION

INWOOD SITE

LOCATION MAP (NOT TO SCALE)

COMPACTED IN PLACE - EXTEND BEYOND PAVEMENT

- EXISTING SUBGRADE

EDGE/BACK BY 0.25 FT

COMPACT TO 98% MODIFIED PROCTOR

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

Engineers

Surveyors

Planners

Landscape Architects

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Professional Seal:

BRENT EDMUND KRAFT **ENGINEER** 6201066701

Know what's below. Call before you dig.

DATE: ISSUE: 04.15.2025 FOR BID

Developed For: WASHINGTON, BRUCE, ROMEO PARKS AND RECREATION COMMISSION 361 MORTON STREET

SITE PLAN

ROMEO, MI 48065

https://rwbparksrec.org/ P: (586) 752-6543

GILCHER-CRISSMAN PARK PAVILION

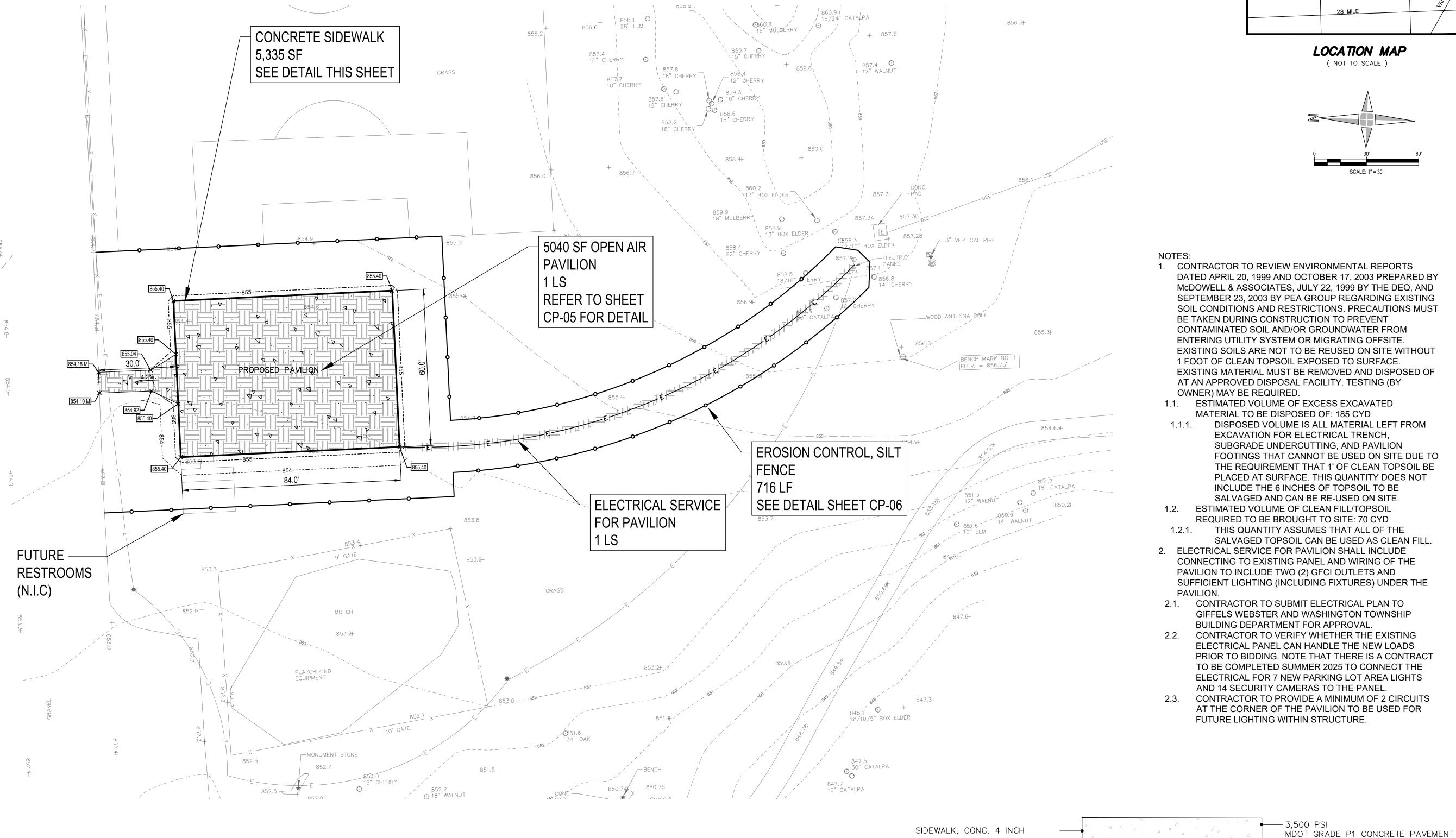
> WASHINGTON TWP. MACOMB COUNTY MICHIGAN

MARCH 2025 1" = 20' Scale: CP-04

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Project:

20408.00



AGGREGATE BASE, 4 INCH (CL II)—

GRANULAR MATERIAL, CL II, CIP---

1. BROOM FINISH CONCRETE SURFACE.

PLACEMENT OF EXPANSION JOINTS.

SUPPORT MACHINE.

CONCRETE SIDEWALK

2. SEE MUNICIPAL DETAILS FOR CONCRETE JOINTING PLAN AND

3. SAWCUT CONCRETE JOINTS AS SOON AS PAVEMENT CAN

TOPSOIL SURFACE, SALV, 6 INCH

SHEET LEGEND

CONCRETE SIDEWALK

NOTE: COVERWORX DRAWINGS ARE FOR REFERENCE AND AN EXAMPLE OF ONE APPROVED SUPPLIER. CONTRACTOR CAN USE OTHER SUPPLIER AND INDICATE THAT DURING BID.

DRAWINGS ARE NOT TO SCALE

- 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.

Model: Steelworx Gable Shelter, 60' x 84' Model # GA-6084-SW

Manufacturing Mission: To provide all prefabricated components and installation instructions for a 60' wide (measured from eave to eave) by 84' long free standing bolt together, tubular steel constructed shelter kit.

Design Criteria: Structure shall be designed to meet site specific snow and wind load design criteria using most current applicable building codes. All structural members are ASTM A-500 U.S. grade B steel. Welded connection plates shall be ASTM A-36 hot rolled steel. All fabrication performed to latest AISC standards by AWS Certified welders. All framing connections are done using A325 grade bolts within concealed access openings from above and will later be concealed by the roofing. All roof framing shall be flush against the roof decking to eliminate the possibility of bird nesting.

Tubular Steel Columns and Beams: Standard column dimension shall be 18" x 6" x 5/16" tubular steel welded to 1" base plates. Main support beams are 18" x 6" x 5/16" and purlins are 6" x 4" x 3/16". Steel sizes are preliminary and may change upon final engineering based on actual site conditions and load requirements (site specific engineering shall be an additional cost)

shall be an additional cost).

Roofing: 24 Ga. pre-cut steel Multi-Rib panels with Kynar 500 finish in a variety of colors with white underside.

Standard roof slope is a 4/12 pitch with a eave height of 8'-0". Attached to structural framing with exposed self tapping screws painted to match roof color. Matching 24 Ga. trim included.

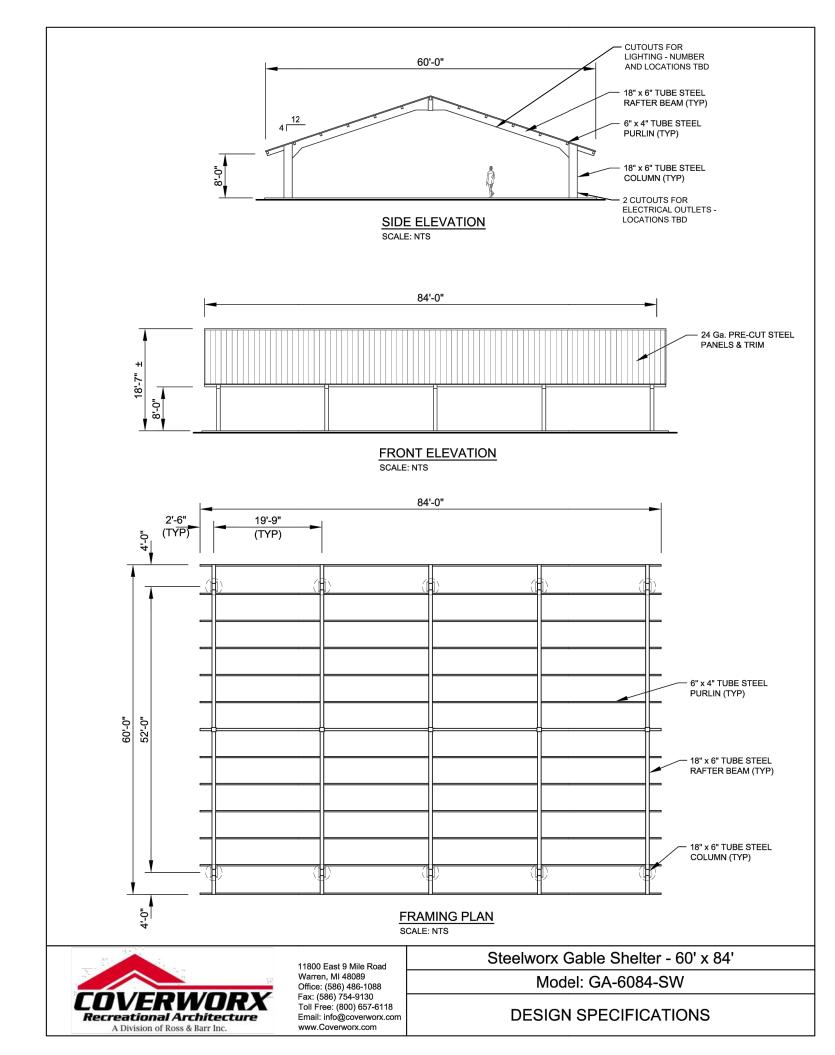
Frame Finish: All steel framework will receive a corrosion protective TGIC Polyester powder coat, electro-statically applied and cured at 400°F. A large selection of standard colors are available.

Foundation: All columns need to be anchored to concrete footings (footing design provided separately). Columns can be surface mounted with anchor bolts at or below finish slab elevation or they can be embedded directly into the footing. Optional base plate covers are available at an additional cost.

Hardware: All structural hardware and roofing fasteners shall be provided.

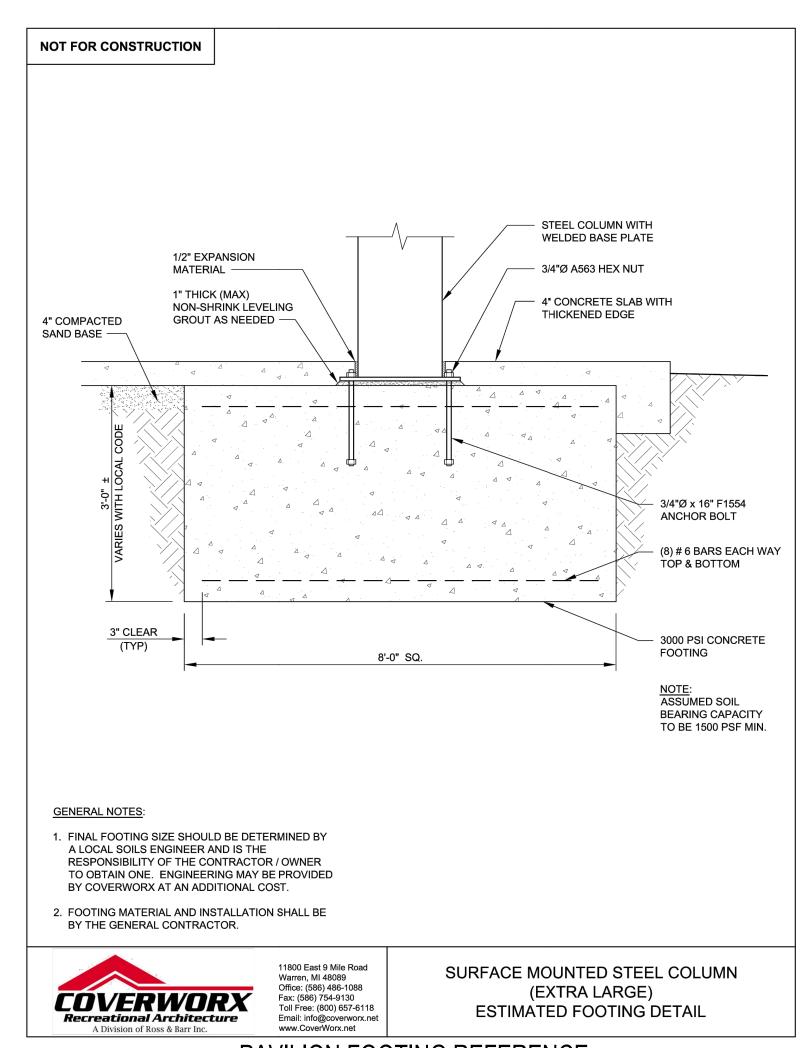
Warranty: 10 years against manufacturer defects.

Not Included: Concrete work of any kind, unloading of product and installation.



11800 East 9 Mile Road
Warren, MI 48089
Office: (586) 486-1088
Fax: (586) 754-9130
Toll Free: (800) 657-6118
Email: info@coverworx.com
www.Coverworx.com

5040 SF PAVILION DETAIL OR APPROVED EQUAL



PAVILION FOOTING REFERENCE

NOT FOR CONSTRUCTION - FOOTING TO BE DESIGNED BY PAVILION

MANUFACTURER

giffels webster

Surveyors
Planners
Landscape Architects

6303 26 Mile Road Suite 100

Washington Twp, MI 48094 p (586) 781-8950 f (313) 962-5068

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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:





Developed For:
WASHINGTON, BRUCE,
ROMEO PARKS AND
RECREATION
COMMISSION
361 MORTON STREET
ROMEO, MI 48065
https://rwbparksrec.org/

DETAILS

P: (586) 752-6543

GILCHER-CRISSMAN PARK PAVILION

WASHINGTON TWP.
MACOMB COUNTY
MICHIGAN

Date:	MARCH 2025	
Scale:	N.T.S.	
Sheet:	CP-05	
Project:	20408.00	

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sman Pavilion\Design\CAD\Work Sheets\CP-05 Details.dwg

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

2. PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT, AND THE MACOMB COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE

3. ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACOMB COUNTY PUBLIC WORKS OFFICE.

4. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON-SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.

5. STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.

7. IF ANY SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE MACOMB COUNTY PUBLIC WORKS OFFICE SESC DIVISION HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE CONTRACTOR.

8. CONTRACTOR SHALL INSTALL A CRUSHED CONCRETE ACCESS DRIVE PLACED ON GEOTEXTILE FABRIC AS INDICATED ON THE PLAN. THE ACCESS DRIVE MUST BE A MINIMUM OF 30'X20'X8".

A. NEW LAYERS OF CRUSHED CONCRETE WILL BE ADDED AS OLD LAYERS BECOME COMPACTED.

9. CONTRACTOR SHALL INSTALL SILT FENCE AS INDICATED ON THE PLAN AND AT ADDITIONAL AREAS AS NECESSARY.

A. SILT FENCE SHALL BE INSTALLED PER DETAIL ON SHEET THIS SHEET.

B. BUILDUP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.

C. IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY

D. SILT FENCE SHALL IN INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.

10. CONTRACTOR SHALL INSTALL INLET FILTER ON ALL PAVEMENT CATCH BASINS PER DETAIL ON SHEET THIS SHEET.

A. INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF A RAINFALL, AND DAILY DURING A PROLONGED RAIN EVENT.

B. BUILDUP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.

C. IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

11. CONTRACTOR SHALL INSTALL DRAIN GUARD ON ALL CATCH BASINS PER DETAIL ON SHEET THIS SHEET, SEED OR SOD THE AREA BETWEEN THE SILT FENCE AND THE INLET.

A. DRAIN GUARDS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL, AND DURING A PROLONGED RAIN EVENT.

B. BUILDUP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.

C. IF FABRIC DECOMPOSES OR BECOME INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.

12. INLET SEDIMENT TRAPS AND ALL DITCH SEDIMENT TRAPS SHALL BE INSPECTED DAILY. SEDIMENT PITS SHALL BE CLEANED OUT WHEN HALF FULL, OR AS DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.

13. UTILITIES AND PUMP STATION

A. THE ROAD RIGHT-OF-WAY MUST BE SEEDED AND MULCHED WITHIN 5 DAYS AFTER UTILITIES HAVE BEEN INSTALLED. IF THIS IS NOT POSSIBLE, ALL SESC MEASURES MUST STAY IN PLACE AND MUST BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED.

14. ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE STOCKPILE WILL BE ON-SITE FOR MORE THAN 30 DAYS, THEN THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE

PERIMETER OF THE STOCKPILE. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMLY AT THE RATE OF 1 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 BALES) PER 1,000 SQUARE FEET. THIS MULCH

SHOULD BE ANCHORED WITH DISC TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE. MULCH MATTING MAY BE USED IN LIEU OF LOOSE MULCH.

15. IF ANY DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL-VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE USED.

16. ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.

17. STREETS AND OR PARKING AREAS SHALL BE SCRAPED DAILY AND SWEPT AT A MINIMUM OF ONCE PER WEEK BY CONTRACTOR.

18. DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL.

19. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE ACTIVITY CEASES, TEMPORARILY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL SHALL BE MAINTAINED UNTIL

PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.

20. CONTRACTOR SHALL ESTABLISH FINAL GRADING, VEGETATION, AND/OR LANDSCAPE OF ALL DISTURBED AREAS NOT BUILT OR PAVED LIPON, VEGETATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 DAYS OF COMPLETION OF ALL

20. CONTRACTOR SHALL ESTABLISH FINAL GRADING, VEGETATION, AND/OR LANDSCAPE OF ALL DISTURBED AREAS NOT BUILT OR PAVED UPON. VEGETATION STABILIZATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 DAYS OF COMPLETION OF FINAL GRADING.

ADDITIONAL EROSION CONTROL NOTES

1. SOIL EROSION CONTROL PRACTICES WILL BE ESTABLISHED IN EARLY STAGES OF CONSTRUCTION BY CONTRACTOR. SEDIMENTATION CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF DIRT OUT OF THE WORK AREA.

2. CONTRACTOR SHALL PRESERVE NATURAL VEGETATION AS MUCH AS POSSIBLE.

3. PROTECT ALL EXISTING TREES, INCLUDING THEIR BRANCHES AND ROOTS, FROM DAMAGE DUE TO THIS WORK UNLESS SPECIFICALLY IDENTIFIED FOR REMOVAL.

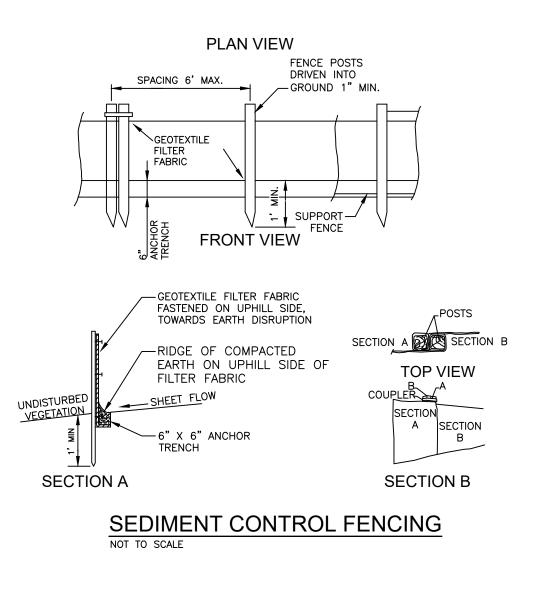
 $4. \ \, \text{CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL APPLICABLE NPDES REGULATIONS, INCLUDING INSPECTION, RESTORATION, AND RECORD KEEPING REQUIREMENTS.} \\$

5. CONSTRUCTION ACTIVITIES (INCLUDING INSTALLATION OF PIPE, ASSOCIATED VALVES, STRUCTURES, BACKFILLING, SURFACE RESTORATION, AND REMOVAL OF EXCESS EXCAVATED MATERIAL) SHALL BE ACCOMPLISHED IN ONE CONTINUOUS OPERATION.

6. IF PERMANENT STABILIZATION CANNOT BE PROVIDED WITHIN 15 DAYS OF THE COMPLETION OF PIPE LAYING OPERATIONS, TEMPORARY STABILIZATION SHALL BE PROVIDED AT ALL DISTURBED AREAS. TEMPORARY STABILIZATION SHALL FURTHERMORE BE PROVIDED DURING THE NON-GROWING SEASON (OCTOBER 1 THROUGH APRIL 20) FOR ALL AREAS TO BE SEEDED.

7. TEMPORARY STABILIZATION SHALL CONSIST OF EITHER SMALL GRAIN STRAW OR GRASS HAY SPREAD AT THE RATE OF 1.5 TO 2 TONS PER ACRE, OR MULCH BLANKETS, WHICH SHALL BE ANCHORED IN PLACE TO PREVENT DISPLACEMENT FROM WIND AND RAIN.

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



DUMP
STRAPS 2
EACH

CRATE

POLYPROPYLENE
"BOOT"
FINISHED GRADE
PERPENDICULAR
TO THE SLOPE

GEOTEXTILE FILTER
FABRIC BAG
PLACED

OVER FILTER BAG

POLYPROPYLENE
BASIN
OVERFLOW

POLYPROPYLENE
CATCH
BASIN
OVERFLOW

POLYPROPYLENE
CATCH
BASIN
OVERFLOW

POLYPROPYLENE
CATCH
BASIN
OVERFLOW

POLYPROPYLENE
CATCH
BASIN
OVERFLOW

POLYPROPYLENE
FILTER BAG
(CATCH ALL INLET PROTECTOR)

TEMPORARY SEDIMENT INLET FILTER

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

EROSION CONTROL LEGEND

SEDIMENT INLET FILTER

LIMITS OF DISTURBED AREA

SEDIMENT CONTROL FENCE

TOTAL PROJECT DISTURBED AREA 0.28 ACRES +/-

NOTE: CONSTRUCTION ACCESS IS FROM EXISTING 29 MILE ROAD

CONTACT FOR ALL TEMPORARY AND PERMANENT EROSION CONTROL

<u>MEASURES</u>

CHARTER TOWNSHIP OF WASHINGTON 57900 VAN DYKE WASHINGTON, MI 48094 (586) 786-0010 p

ATTN: RICH AMORMINO DPW DIRECTOR

SOIL TYPE ON SITE

(586) 786-0404 f

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

WATERCOURSE

NAME OF NEAREST COUNTY DRAIN: MOUNT VERNON DRAIN NAME OF NEAREST WATERCOURSE: MOUNT VERNON DRAIN DISTANCE TO NEAREST WATERCOURSE: 10.000 Ft

TIMING REQUIREMENTS

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

PROJECT START DATE:

JUNE 2025

PROJECT COMPLETION DATE:

APRIL 2026

PARCEL INFORMATION

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

DUST CONTROL PROVISIONS

 DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED DOWN FOR DUST CONTROL.
 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.

NOTES

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

EROSION CONTROL SEQUENCE

- 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
- 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.

MAINTENANCE SCHEDULE			
CHECK SILT FENCE & SEDIMENT TRAPS	WEEKLY AND AFTER SIGNIFICANT RAIN EVENT		
SCRAPE & SWEEP STREET	AS NEEDED		
CHECK INLET FILTERS	AFTER RAIN EVENT		



Surveyors Planners

6303 26 Mile Road

Landscape Architects

Suite 100 Washington Twp, MI 48094 p (586) 781-8950

f (313) 962-5068 www.giffelswebster.com

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:





DATE: ISSUE:

4.15.2025

Developed For:
WASHINGTON, BRUCE,
ROMEO PARKS AND
RECREATION
COMMISSION
361 MORTON STREET
ROMEO, MI 48065

https://rwbparksrec.org/ P: (586) 752-6543 SOIL EROSION &

SEDIMENT CONTROL
NOTES & DETAILS
GILCHER-CRISSMAN PARK

PAVILION

WASHINGTON TWP.

MACOMB COUNTY

MICHIGAN

Date: MARCH 2025
Scale: NONE
Sheet: CP-06

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