

# OTSEGO COUNTY SPORTSPLEX ALPINE REGIONAL TENNIS ASSOCIATION PROPOSED TENNIS COURTS

Gaylord, Otsego County, Michigan



**Sidock Group**

ARCHITECTS • ENGINEERS • CONSULTANTS

Corporate Headquarters  
45650 Grand River Avenue  
Novi, Michigan 48374  
Ph: (248)349-4500 • Fax: (248)349-1429

Sault Ste. Marie Office  
816 Ashmun Street  
Sault Ste. Marie, Michigan 49783  
Ph: (906)632-1500 Fax: (906)632-3220

Novi • Wyandotte • Muskegon  
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www.sidockgroup.com

Key Plan:

Client:  
OTSEGO COUNTY

Project:  
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SPORTSPLEX

GORNICK AVENUE  
GAYLORD, MI 49735

Seal:

Date	Issued For
7-12-2016	50% REVIEW
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**COVER SHEET**

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Project Number: **514581**

Sheet Number: **C001**

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WATER AND SEWER SYMBOLS

- ⊕ SANITARY MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ STORM SEWER CATCH BASIN
- ⌒ HEADWALL
- △ CULVERT END SECTION
- ⊖ WATER SERVICE CURB STOP BOX
- ⊗ WATER GATE VALVE AND BOX
- ⊕ FIRE HYDRANT
- ⊕ GROUND WATER MONITORING WELL
- DRAINAGE FLOW ARROW

MISCELLANEOUS SYMBOLS

- ✉ MAILBOX
- ⊕ SIGN WITH ONE POST
- ⊕ SIGN WITH TWO POSTS
- ⊕ RIPRAP
- ☆ CONIFER TREE
- ☆ DECIDUOUS TREE
- ⊕ SHRUB
- ⊕ ABANDON
- ⊕ BULKHEAD
- ⊕ CLEARING
- ⊕ REMOVAL
- ⊕ ADJUST
- ⊕ RELOCATE
- ⊕ SALVAGE
- TRAFFIC FLOW ARROW
- ⊕ TH#25 TEST HOLE NUMBER

UTILITY SYMBOLS

- ELECTRICAL, GUY OR TELEPHONE POLE
- ⊕ ELECTRICAL MANHOLE
- ⊕ ELECTRICAL HANDHOLE
- ⊕ ELECTRICAL TRANSFORMER BOX
- ⊕ ELECTRIC & LIGHT POLE
- ⊕ LIGHT POLE
- ⊕ LIGHT STANDARD
- ⊕ GENERIC UTILITY MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ TELEPHONE PEDESTAL
- ⊕ GAS LINE, PETROLEUM OR FIBER OPTIC MARKER
- ⊕ GAS VALVE
- ⊕ GUY ANCHOR

UNDERGROUND UTILITY LINSTYLES

- E ----- E ----- ELECTRIC LINE
- GAS ----- GAS ----- NATURAL GAS LINE
- OIL ----- OIL ----- OIL PIPELINE
- T ----- T ----- TELEPHONE LINE
- CTV ----- CTV ----- CABLE TV LINE
- FO ----- FO ----- FIBER OPTICS LINE
- WM ----- WM ----- WATER MAIN

OVERHEAD UTILITY LINSTYLES

- OH-E ----- OH-E ----- ELECTRIC LINE OVERHEAD
- OH-TEL ----- OH-TEL ----- TELEPHONE LINE OVERHEAD
- OH-CTV ----- OH-CTV ----- CABLE TV LINE OVERHEAD

ROW AND PROPERTY LINSTYLES

- ROW
- CITY LIMITS LINE

OTHER LINSTYLES

- HEDGE LINE
- TREE LINE
- FENCE
- GUARDRAIL
- DRAINAGE COURSE
- ST ----- ST ----- CULVERT/STORM SEWER
- S ----- S ----- SANITARY SEWER
- SWAMP AREA
- REM CURB OR CURB & GUTTER

NOTE: PROPOSED LINSTYLES AND SYMBOLS ARE THE SAME AS EXISTING EXCEPT BOLD

PLAN SHEET PATTERNS

- HMA APPROACH/DRIVEWAY
- MISCELLANEOUS CONCRETE PAVEMENT
- COLD-MILLING (HMA/CONCRETE)
- HMA BASE CRUSH & SHAPE OR RUBBLIZE
- DETECTABLE WARNING SURFACE
- SIDEWALK LANDING

TYPICAL SECTION PATTERNS

- CONCRETE PAVEMENT
- HMA PAVEMENT (ALL)
- AGGREGATE BASE
- CLASS II SUB-BASE

REMOVAL / DEMOLITION PATTERNS

- REMOVING SIDEWALK
- REMOVING PAVEMENT

REAL ESTATE & SURVEY SYMBOLS

- ⊕ SECTION CORNER
- ⊕ QUARTER CORNER
- ⊕ QUARTER QUARTER CORNER
- ⊕ HALF SECTION CORNER
- ⊕ HALF QUARTER CORNER
- ⊕ PROPERTY CORNER
- ⊕ REFERENCE MARKER
- ⊕ CP# ----- CONTROL POINT
- ⊕ BM# ----- BENCH MARK
- ⊕ PRESERVE PRESERVE MONUMENT BOX
- ⊕ PROTECT PROTECT MONUMENT CORNERS
- PROPERTY OWNERSHIP ARROW
- CONTIGUOUS PROPERTY SYMBOL
- 123456 PARCEL NUMBER BOX

DESIGN CRITERIA

- ADT (YEAR) X,XXX
- ADT PROJECTED (YEAR + 20) X,XXX
- POSTED SPEED XX MPH
- DESIGN SPEED XX MPH

APPLICABLE STANDARDS

- R-28-1 SIDEWALK RAMP AND DETECTABLE WARNING DETAILS
- R-29-1 DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK

UTILITY CONTACT LIST

THE UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO IT'S ACCURACY AND THE LOCATION OF EXISTING UTILITIES.

OWNER	UTILITY
CONSUMERS ENERGY 100 N. EAST STREET BOYNE CITY, MI 49712 ATTENTION: BILL KAISER (SERVICE) PHONE: 231-582-8304 ATTENTION: GILES LITZNER (DISTRIBUTION) PHONE: 231-420-2515	ELECTRIC
CHARTER COMMUNICATIONS 2255 M-119 PETOSKEY, MI 49770 ATTENTION: STEVE THINEL PHONE: 906-631-5725	CATV
OTSEGO COUNTY ROAD COMMISSION 669 W. McKOY ROAD GAYLORD, MI 49735 ATTENTION: TOM DEANS PHONE: 989-732-5202	ROADS
DEPT. OF PUBLIC WORKS CITY OF GAYLORD 102 E. SEVENTH STREET GAYLORD, MI 49735 PHONE: OFFICE 989-732-4060 SEWER 989-732-0750 WAYNE DAVIS WATER 989-732-5475 ED THOLL	SEWER & WATER
DTE ENERGY 1250 MICH CON LANE, SW P.O. BOX 279 KALKASKA, MI 49646 ATTENTION: MATT LOGAN (DISTRIBUTION) PHONE: 231-258-3785 ATTENTION: GARY WARMBIER (TRANSMISSION) PHONE: 989-370-5368	NATURAL GAS
FRONTIER COMMUNICATIONS 3249 FOREST GAYLORD, MI 49735 ATTENTION: CHUCK HARDIN PHONE: 989-350-2837	TELEPHONE
PAXTON RESOURCES 132 N. OTSEGO AVENUE GAYLORD, MI 49735 ATTENTION: SCOTT LAMPERT PHONE: 989-732-9400	OIL

SPECIAL LEGEND THIS PROJECT



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GENERAL CIVIL NOTES

- 1. PRIOR TO SUBMITTING PROPOSAL, VERIFY ALL CONDITIONS GOVERNING OR AFFECTING THE CIVIL WORK; OBTAIN AND VERIFY ALL DIMENSIONS TO ENSURE THE PROPER FIT AND LOCATION OF THE CIVIL WORK, TAKE ADDITIONAL DIMENSIONS AS REQUIRED; REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK; FAMILIARIZE YOURSELF WITH THE ACTUAL CONDITIONS OF THE CIVIL WORK, ACCESS TO THE SITE, AVAILABLE STORAGE SPACE, FACILITIES AND OBSTRUCTIONS THAT MAY BE ENCOUNTERED DURING THE PROGRESS OF WORK.
2. CONTRACTOR TO FURNISH ALL NECESSARY LABOR, MATERIAL, EQUIPMENT AND FACILITIES TO FURNISH, FABRICATE AND PERFORM THE REQUIRED CIVIL WORK.
3. ANY EXISTING CONSTRUCTION TO BE MODIFIED AS A PART OF THIS CONTRACT SHALL BE REBUILT AS REQUIRED TO THE SATISFACTION OF THE OWNER/ENGINEER.
4. EXISTING CONSTRUCTION NOT UNDERGOING ALTERATION IS TO REMAIN UNDISTURBED, WHERE SUCH CONSTRUCTION IS DISTURBED AS A RESULT OF THE OPERATIONS OF THIS CONTRACT, THE EXISTING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE EXTENT DETERMINED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE CONTRACT.
5. CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED INDEPENDENT THIRD PARTY TO PROVIDE QUALITY CONTROL SERVICES AS REQUIRED FOR THIS PROJECT.
THE OWNER MAY RETAIN AN INDEPENDENT TESTING AGENCY TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE WORK. CONTRACTOR SHALL PROVIDE ACCESS AND ACCOMMODATE OWNERS REPRESENTATIVE AS REQUIRED FOR TESTING PURPOSES.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ERRATA, LATEST REVISION THEREOF, UNLESS MODIFIED HEREIN.
7. THE GENERAL CIVIL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATION, AND/OR THE GENERAL CIVIL NOTES, THE STRICTEST PROVISION AS DETERMINED BY THE ENGINEER SHALL GOVERN.
8. ALL MATERIALS, WORK, AND WORKMANSHIP SHALL CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS.
9. THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION SAFETY STANDARDS AND THE OCCUPATIONAL SAFETY STANDARDS (OSHA) AS ISSUED BY THE U.S. DEPARTMENT OF LABOR AND THE MICHIGAN DEPARTMENT OF LABOR (MIOSHA).
10. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL THE EXISTING CONDITIONS AT THE SITE INCLUDING UTILITIES, SERVICES, ETC. AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES THEY CAUSE TO BOTH EXISTING, NEW CONSTRUCTION, PROPERTY AND ANY UNAUTHORIZED DISRUPTION TO ADJACENT OWNERS' NORMAL USE OF UTILITIES, SERVICES, AND THE SURROUNDING FACILITIES.
11. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION PRIOR TO MAKING CHANGES TO, OR INTERRUPTIONS OF UTILITIES AND SHALL COMPLY WITH SPECIAL INSTRUCTIONS FROM THE OWNER TO MINIMIZE THE EFFECT ON THEIR OPERATIONS. PRIOR TO ANY EXCAVATION, EARTH MOVING WORK OR REMOVAL OF ANY PIPE FROM SERVICE, THE CONTRACTOR SHALL REVIEW WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF THE UNDERGROUND UTILITIES, SERVICE AND STRUCTURES IN THE AREA WHERE THE WORK IS BEING PERFORMED. PROVIDE FULL TIME SUPERVISION DURING ALL EXCAVATION AND EARTH MOVING OPERATIONS AND TAKE ALL RESPONSIBLE PRECAUTIONS TO PROTECT EXISTING UTILITIES, SERVICES AND OPERATIONS FROM DAMAGE OR DISRUPTIONS.
12. PROVIDE BARRIER PROTECTION FOR VEHICULAR AND PEDESTRIAN TRAFFIC AT EXCAVATIONS. TEMPORARY FENCING, BARRICADING AND PEDESTRIAN ROUTING SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
13. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE DONE WITH THE PRIOR KNOWLEDGE AND CONSENT OF OFFICIALS HAVING JURISDICTION. MINIMIZE DISRUPTION OF TRAFFIC FLOW DURING WORK.
14. ACCESS SHALL BE MAINTAINED TO ALL BUSINESSES, RESIDENCES AND GOVERNMENT FACILITIES AT ALL TIMES DURING CONSTRUCTION. MAINTENANCE GRAVEL SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER. COST FOR MAINTENANCE GRAVEL SHALL BE INCLUDED IN COST FOR OTHER ITEMS OF WORK.
15. DISPOSE OF ALL EXCAVATED SOILS AND WASTE MATERIALS (NEW AND EXISTING) OFF SITE IN A LEGAL MANNER.
16. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF OR SALVAGE AS INDICATED ON DRAWINGS. ITEMS TO BE SALVAGED SHALL BE STORED AND PROTECTED FOR RE-USE IN THE PROJECT, OR DELIVERED TO OWNER AT OWNERS DESIGNATED LOCATION.
17. PERFORM FINAL CLEANUP OF WORK AREAS. LEAVE WORK IN A COMPLETE AND ACCEPTABLE MANNER. PERFORM ALL ACTIVITIES NECESSARY TO ACHIEVE COMPLETION WHETHER SPECIFICALLY SHOWN OR DETAILED ON THE DRAWINGS.

CLEARING, GRUBBING, & EARTHWORK

- 1. AT THE START OF EARTHWORK OPERATIONS, ALL SURFACE VEGETATION SHALL BE CLEARED AND THE EXISTING TOPSOIL AND ANY OTHER ORGANIC SOILS SHALL BE REMOVED IN THEIR ENTIRETY FROM BELOW THE PROPOSED BUILDING AND PAVEMENT AREAS. EXISTING RANDOM CONCRETE AND OTHER DEBRIS SHALL BE REMOVED FROM WITHIN THE WORK AREA. REMOVE STUMPS TO 12 INCHES BELOW FINAL GRADE. DISPOSE OF VEGETATIVE MATTER AND DEBRIS OFFSITE.
2. THE SUB-GRADE SHOULD BE THOROUGHLY PROOF-ROLLED WITH A HEAVY RUBBER-TIRED VEHICLE SUCH AS A LOADED DUMP TRUCK. ANY AREAS THAT EXHIBIT EXCESSIVE PUMPING AND YIELDING DURING PROOF-ROLLING SHOULD BE STABILIZED BY AERATION, DRYING AND COMPACTION IF WEATHER CONDITIONS ARE FAVORABLE, OR REMOVAL AND REPLACEMENT WITH ENGINEERED FILL.
3. ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE DESIGNER OF RECORD WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, EXISTING FOOTINGS, EXCAVATIONS, ETC. ARE ENCOUNTERED.
4. CONTRACTOR SHALL FURNISH ALL REQUIRED DEWATERING EQUIPMENT TO MAINTAIN A DRY EXCAVATION UNTIL BACKFILL IS COMPLETE.
5. MATERIAL FOR BACKFILL OR ENGINEERED FILL REQUIRED TO ACHIEVE DESIGN GRADES SHOULD CONSIST OF NON-ORGANIC SOILS AND HAVE NO CLUMPS LARGER THAN 2 INCH IN ANY DIMENSION. THE ON-SITE SOILS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS LESS THAN 2 INCHES IN ANY DIMENSION MAY BE USED FOR ENGINEERED FILL WITH ENGINEERS APPROVAL.
6. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF ITS' MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHODS (ASTM D1557), IN LIFTS NOT EXCEEDING 12-INCHES IN LOOSE THICKNESS.
7. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHALL FILL BE PLACED ON FROZEN SUB-GRADE.

CLEARING, GRUBBING, & EARTHWORK (CONT)

- 8. CONSTRUCTION DRAINAGE: STORM WATER ACCUMULATED IN THE PROJECT SITE EXCAVATIONS IS TO DRAIN BY NATURAL PERCOLATION.
9. SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS. SLOPE ALL EARTH BANKS 1:4 OR FLATTER.
10. NEW GRADES SHOWN ARE FINISHED GRADES AND INCLUDES TOP OF TOPSOIL OR SURFACES SUCH AS PAVEMENTS AND WALKS.
11. PROVIDE 4 INCHES OF TOPSOIL, SEED AND MULCH AT DISTURBED LAWN AREAS, EXCEPT AS NOTED OTHERWISE. REUSE SALVAGED TOPSOIL, AUGMENT WITH OFF-SITE MATERIAL TO ACHIEVE REQUIRED DEPTH. EXISTING TOPSOIL SHALL BE STOCKPILED AND PREPARED FOR RE-USE ON THE PROJECT.
12. TREES: TREES NOT INDICATED TO BE REMOVED OR TRANSPLANTED SHALL BE FENCED OFF WITH 4' HIGH ORANGE CONSTRUCTION FENCE 10' FROM THE DRIP LINE OF THE TREE. ALL MATERIALS GENERATED FROM REMOVING TREES OR STUMPS SHALL BE HANDLED AND DISPOSED OF AS PER THE MICHIGAN DEPARTMENT OF AGRICULTURE REQUIREMENTS. COST SHALL BE INCLUDED IN THE UNIT PRICE FOR OTHER ITEMS OF WORK.
13. GREAT CARE SHALL BE TAKEN BY CONTRACTOR'S TO AVOID DAMAGE TO VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION AND TO KEEP THE CONSTRUCTION AREAS TO A MINIMUM. DRIVING SHALL NOT BE PERMITTED OUTSIDE THE LIMITS OF CONSTRUCTION.
14. EARTHWORK QUANTITIES ARE COMPUTED BY THE END AREA METHOD. EXCAVATION AND EMBANKMENT QUANTITIES ARE BASED UPON FINAL ELEVATION NEAT LINES. ANY EXCAVATION BELOW THIS LINE FOR TOPSOIL, SOD, ETC. IS INCLUDED IN THE COST FOR THE RESPECTIVE PAY ITEM. LIKEWISE, EMBANKMENT QUANTITIES WILL NOT BE REDUCED DUE TO THE PLACEMENT OF OTHER PAY ITEMS. FINAL EXCAVATION AND EMBANKMENT QUANTITIES WILL BE BASED UPON PLAN QUANTITIES UNLESS SPECIFIED CHANGES IN THE SLOPE OF THE PROJECT REQUIRE REVISION OF PLAN QUANTITY.

UTILITIES

- 1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL DIAL 1-800-482-7171 (811) A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
2. MINIMUM COVER OF UNDERGROUND UTILITIES:
WATER 6 FT OUTSIDE THE INFLUENCE OF DRIVEN WAY, 7 FT WITHIN
NATURAL GAS 2.5 FT
SANITARY SEWERS 4.0 FT
ALL OTHERS 2.5 FT
PROVIDE TEMPORARY PROTECTION AS REQUIRED UNTIL COVER IS COMPLETED. INFORM OWNER'S REPRESENTATIVE IF AVAILABLE COVER, AT INDICATED ELEVATIONS, IS LESS THAN MINIMUM.
3. EXISTING UTILITIES: INFORMATION HAS BEEN OBTAINED FROM EXISTING AVAILABLE DRAWINGS AND SURFACE FEATURES SHOWN ON THE TOPOGRAPHIC SURVEY. VERIFY THE INFORMATION BEFORE CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES OR INTERFERENCES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER LINES, STORM OR SEWER MAINS DURING THE CONSTRUCTION OF THIS PROJECT. THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.
5. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.
6. ADJUST THE FRAME AND COVER OF CATCH BASINS AND MANHOLES THAT ARE NOT INDICATED TO BE ABANDONED OR REMOVED, TO FINISH GRADE ELEVATION. ADJUSTMENTS SHALL BE MADE USING PRECAST GRADE RINGS.
7. PRIOR TO CONSTRUCTION, EXISTING UTILITIES AT PROPOSED CONNECTIONS AND CROSSINGS SHALL BE FIELD EXCAVATED TO VERIFY LOCATIONS, ELEVATION AND SIZE. THE OWNER'S REPRESENTATIVE MAY CONFIRM, ADJUST OR REVISE DESIGN ELEVATIONS OF THE PROPOSED UTILITIES.

SOIL EROSION AND SEDIMENTATION CONTROL

- 1. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE LOCAL AUTHORIZING AGENCY FOR SOIL EROSION AND SEDIMENTATION CONTROL. THE COST FOR ANY FEES ASSOCIATED WITH OBTAINING AND COMPLYING WITH THE PERMIT SHALL BE INCLUDED IN THE COST OF THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND DOCUMENTATION OF SEDIMENTATION, EROSION CONTROL, AND STORMWATER QUALITY ISSUES RELATED TO THE PROJECT, AS REQUIRED AND AS NECESSARY TO COMPLY WITH APPLICABLE LAWS, CODES, AND REGULATIONS.
3. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAIN EVENTS TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. ANY NECESSARY IMPROVEMENTS OR REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
4. SEDIMENT AND EROSION FROM ALL WORK AREAS SHALL BE CONTAINED ON THE SITE, AWAY FROM WETLANDS, OUTFALLS, WATERWAYS, AND ENVIRONMENTALLY SENSITIVE AREAS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND PONDS.
5. MAINTAIN EROSION CONTROL MEASURES UNTIL CONSTRUCTION IS COMPLETE AND LAWN AREAS ARE FULLY DEVELOPED.
6. REMOVE SEDIMENTATION AND EROSION CONTROL MEASURES UPON COMPLETION OF PROJECT.
7. IF THE EXISTING STORM SEWER SYSTEM HAS RECEIVED EXCESSIVE LOADING OF SEDIMENTATION IN THE OPINION OF THE ENGINEER, THE SYSTEM DOWN STREAM SHALL BE CLEANED IN ITS ENTIRETY. THIS MAY INCLUDE JETTING OF THE STORM SEWER AND VACTORING OF THE DRAINAGE STRUCTURES. COST WILL BE INCIDENTAL TO THE UNIT PRICE OF OTHER WORK.

SEQUENCE OF EROSION AND SEDIMENTATION CONTROL OPERATIONS:

- 1. A PERIMETER DEFENSE WILL BE INSTALLED PRIOR TO CONSTRUCTION TO CONTAIN RUNOFF FROM ALL PROPOSED DISTURBED AREAS. SEDIMENT CONTROL WILL BE INITIATED WHICH WILL CONSIST OF MAINTAINING ALL EXISTING VEGETATION AND DIRECTING ALL RUNOFF ON SITE.
2. DURING CONSTRUCTION THE ENDS OF ALL OPEN PIPES WILL BE PROTECTED BY FILTER FABRIC, STONE FILTERS OR OTHER APPROVED MEANS. ALL DRAINAGE STRUCTURES SHALL HAVE INLET PROTECTION, FABRIC DROP INSTALLED.
3. AT THE COMPLETION OF THE CONSTRUCTION, TEMPORARY CONTROL MEASURES WILL BE REMOVED AND CONVERTED TO PERMANENT CONTROLS. FINAL GRADING WILL BE COMPLETED AND THE GROUND WILL BE PERMANENTLY STABILIZED. FILTER FABRIC FENCES SHALL BE REMOVED AND ANY BARE SPOTS WILL BE SEEDED. CATCH BASINS AND DRAIN INLETS WILL BE CAREFULLY UNCOVERED AND ANY SEDIMENT OR DEBRIS WILL BE REMOVED.
4. CONTRACTOR IS TO SEED CRITICAL AREAS IDENTIFIED BY OWNER OR OWNER'S REPRESENTATIVE DAILY, WHEN THOSE AREAS ARE SUBJECT TO EARTH CHANGES. CONTRACTOR IS ALSO RESPONSIBLE FOR REGULAR MAINTENANCE OF PLANT COVER IN THESE AREAS. COVER SHALL BE MAINTAINED SO AS TO CONTROL SOIL EROSION.
5. AT THE CONCLUSION OF CONSTRUCTION, THE OWNER WILL ASSUME THE RESPONSIBILITY FOR PERMANENT MAINTENANCE OF THE EROSION AND SEDIMENTATION CONTROL MEASURES.
6. PROVIDE DUST CONTROL WITH AN ON-SITE WATER WAGON. WATER SHALL BE IMPLEMENTED AS NEEDED AND AT THE DIRECTION OF THE OWNERS AGENT.

HAZARDOUS MATERIALS

- 1. HAZARDOUS MATERIALS: THERE WILL BE NO ONSITE STORAGE OF CHEMICALS, SALTS, FLAMMABLE MATERIALS, OR HAZARDOUS MATERIALS.

UTILITIES

- 1. ALL CONNECTIONS TO EXISTING MUNICIPAL UTILITIES SHALL BE OBSERVED BY THE DESIGNATED OFFICIAL OF THE MUNICIPALITY OR THEIR DESIGNATED REPRESENTATIVE.
2. PROVIDE A MINIMUM OF 24 HOURS NOTICE TO MUNICIPALITY PRIOR TO MAKING CONNECTIONS.

WORK BY OTHERS

- 1. THE OWNER WILL PERFORM, CONTRACT, OR AUTHORIZE OTHER WORK RELATED TO THE PROJECT. WORK MAY BE PERFORMED BY OWNER'S EMPLOYEES, OTHER CONTRACTORS, OR VOLUNTEERS, EITHER INDIVIDUALS OR GROUPS.
2. WORK BY OTHERS HAS BEEN SHOWN ON THE DRAWINGS. THIS MAY NOT BE ALL-INCLUSIVE OF THE WORK TO BE PERFORMED BY OTHERS.
3. CONTRACTOR SHALL COORDINATE HIS ACTIVITIES TO ALLOW WORK BY OTHERS TO BE COMPLETED IN A SAFE MANNER.
4. CONTRACTOR SHALL INSPECT ANY WORK DEPENDENT UPON WORK PERFORMED BY OTHERS. REPORT TO ENGINEER PRIOR TO PERFORMING SUBSEQUENT WORK IF THERE IS CAUSE FOR DELAY OR ADDITIONAL COST AS A RESULT OF OTHER'S WORK. PERFORMANCE OF WORK BY CONTRACTOR SHALL INDICATE THEIR ACCEPTANCE OF WORK CONDITION.
5. CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER WORK OF OTHERS. CONTRACTOR SHALL ALLOW OTHERS REASONABLE TIME TO PERFORM THEIR WORK.

CONCRETE CAST IN-PLACE

- 1. WORK SHALL BE PERFORMED BY A FIRM EXPERIENCED IN THE PLACEMENT AND FINISHING OF WORK OF THIS NATURE.
2. CONCRETE, FORMWORK, JOINT FILLER, VAPOR RETARDER, REINFORCEMENT AND CURING MATERIALS SHALL BE IN ACCORDANCE WITH THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. PROVIDE CONCRETE MEETING THE REQUIREMENTS OF MDOT GRADE 52 OR P1.
4. CONSTRUCT JOINTS TRUE TO LINE WITH SURFACE'S PERPENDICULAR TO SURFACE PLANE OF CONCRETE.
5. CONSTRUCT CONTRACTION JOINTS AS SHOWN ON THE DRAWINGS OR MDOT DETAILS R-28 AND R-29.
6. APPLY A NON-SLIP BROOM FINISH TO ALL EXTERIOR CONCRETE UNLESS INDICATED OTHERWISE.
7. PROTECT CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES.
8. PREVENT TRAFFIC OR PLACEMENT OF LOADS ON CONCRETE PRIOR TO REACHING DESIGN STRENGTH. REPLACE THOSE SECTIONS PREMATURELY LOADED.

CONTRACTOR REQUIRED QUALITY CONTROL

- 1. CONTRACTOR SHALL RETAIN AND PAY FOR QUALITY CONTROL SERVICES FROM AN INDEPENDENT THIRD PARTY QUALIFIED TO PERFORM THESE SERVICES.
2. INSPECTOR / TESTER MUST HAVE CURRENT CERTIFICATION TO PERFORM THE RESPECTIVE TASKS.
3. TESTS SHALL BE PERFORMED ON THE FOLLOWING MATERIALS AT THE SPECIFIED FREQUENCY
A.) GRANULAR SUB-BASE : DENSITY 1/1500 SFT/PER 12 IN LIFT
GRADATION 1/500 CYD
DENSITY 1/1000 SFT
GRADATION 1/300 CYD
B.) AGGREGATE BASE : DENSITY 1/500 SYD PER LIFT
GRADATION 1/500 CYD
DENSITY 1/500 CYD
SLUMP 1/50 CYD
AIR % 1/50 CYD
COMPRESSIVE STRENGTH 5 CYLINDERS/50 CYD
ONCE PER LIFT EVERY 250 LINEAL FEET OF TRENCH
C.) HMA :
D.) CONCRETE :
E.) TRENCH BACKFILL :
4. PROVIDE RESULTS TO OWNER AND ENGINEER NO LATER THAN 5 DAYS AFTER TESTING.
5. NON-PASSING TESTS ARE TO BE REWORKED BY CONTRACTOR UNTIL ACCEPTABLE RESULTS ARE OBTAINED.

AS CONSTRUCTED RECORD

- 1. CONTRACTOR TO PROVIDE ENGINEER A SET OF "AS-BUILT" RECORD DRAWINGS SHOWING ANY REVISIONS TO PROPOSED PLAN IN RED.
2. ALL BURIED WORK SHALL BE WITNESSED AT EACH CHANGE IN DIRECTION, CONNECTION POINT, AND FOUNDATION PENETRATION.
3. WITNESS POINTS SHALL BE TO PERMANENT FEATURES (POWER POLES, FIRE HYDRANTS, MANHOLE FRAME & LID, ETC.) AND SHALL BE TO THREE FEATURES. IF ONLY TWO FEATURES ARE AVAILABLE, THEY SHALL BE BETWEEN 120 AND 180 DEGREES APART.



- 4. FINAL PAYMENT WILL NOT BE MADE UNTIL THE AS-CONSTRUCTED DRAWINGS ARE PROVIDED TO AND ACCEPTED BY THE ENGINEER.

SUBMITTALS:

- 1. SUBMIT ELECTRONIC VERSIONS (PDF) FOR SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SUBMITTALS.
2. SUBMITTALS SHALL BE NUMBERED SEQUENTIALLY. RESUBMISSIONS SHALL UTILIZE SAME NUMBER AS ORIGINAL BUT SHALL BE DESIGNATED AS A RESUBMITTAL BY THE ADDITION OF A LETTER FOLLOWING THE NUMERIC IDENTIFIER.
3. ALLOW 10 DAYS FOR INITIAL REVIEWS, 7 DAYS FOR RESUBMITTALS.
4. INCLUDE FOLLOWING ON EACH SUBMITTAL:
A. PRIME CONTRACTOR'S NAME
B. SUBCONTRACTOR'S NAME (INSTALLER)
C. NAME OF SUPPLIER
D. PROJECT NAME
E. DATE
5. PROVIDE ADEQUATE SPACE (2 1/2" X 2 1/2") FOR ENGINEERS USE IN APPROVAL MARKINGS AND ACTION.
6. SUBMIT CATALOG CUTS, PRODUCT SPECIFICATIONS, COLOR CHARTS, COMPLIANCE STATEMENTS, TESTING AGENCY APPROVALS AND SEALS, AND OTHER INFORMATION AS REQUIRED TO VERIFY CONFORMANCE WITH PROJECT REQUIREMENTS.
7. IDENTIFY SPECIFIC PRODUCTS PROPOSED FOR USE WHEN MULTIPLE ITEMS APPEAR ON A CUT SHEET.
8. NOTE ANY DEFICIENCIES OR WAIVER FROM REQUIRED STANDARD.
9. PROVIDE DATA ON FOLLOWING:
A. PIPE (DI, PVC, HDPE) & FITTINGS
B. DRAINAGE STRUCTURES, BOOTS, AND FRAMES AND LIDS
C. EROSION CONTROL PRODUCTS - SILT FENCE, FABRIC DROPS AND GEOTEXTILE
D. QA/QC TESTING RECORDS (DENSITY, GRADATION, ETC)
E. CONCRETE MIX DESIGNS
F. HMA MIX DESIGN
G. MAINTENANCE DATA, CLOSEOUT SUBMITTALS, AND WARRANTIES.
H. INSTALLER, MANUFACTURER, PRODUCT, OR MATERIAL CERTIFICATES
I. COURT SURFACE COATING SYSTEM
J. FENCE, GATES & APPURTENANCES
K. NETS, POSTS & APPURTENANCES
L. FURNISHINGS

Table with 2 columns: Date, Issued For. Rows include 7-12-2016 50% REVIEW, 12-12-2016 USTA REVIEW, 5-10-2017 BIDDING.

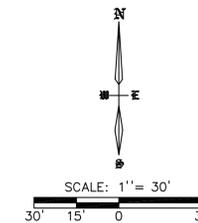
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Sheet Title:
GENERAL
NOTES

Project Number: 514581

Sheet Number: C200

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PLEASE RETURN TO: SIDOCK GROUP, INC.

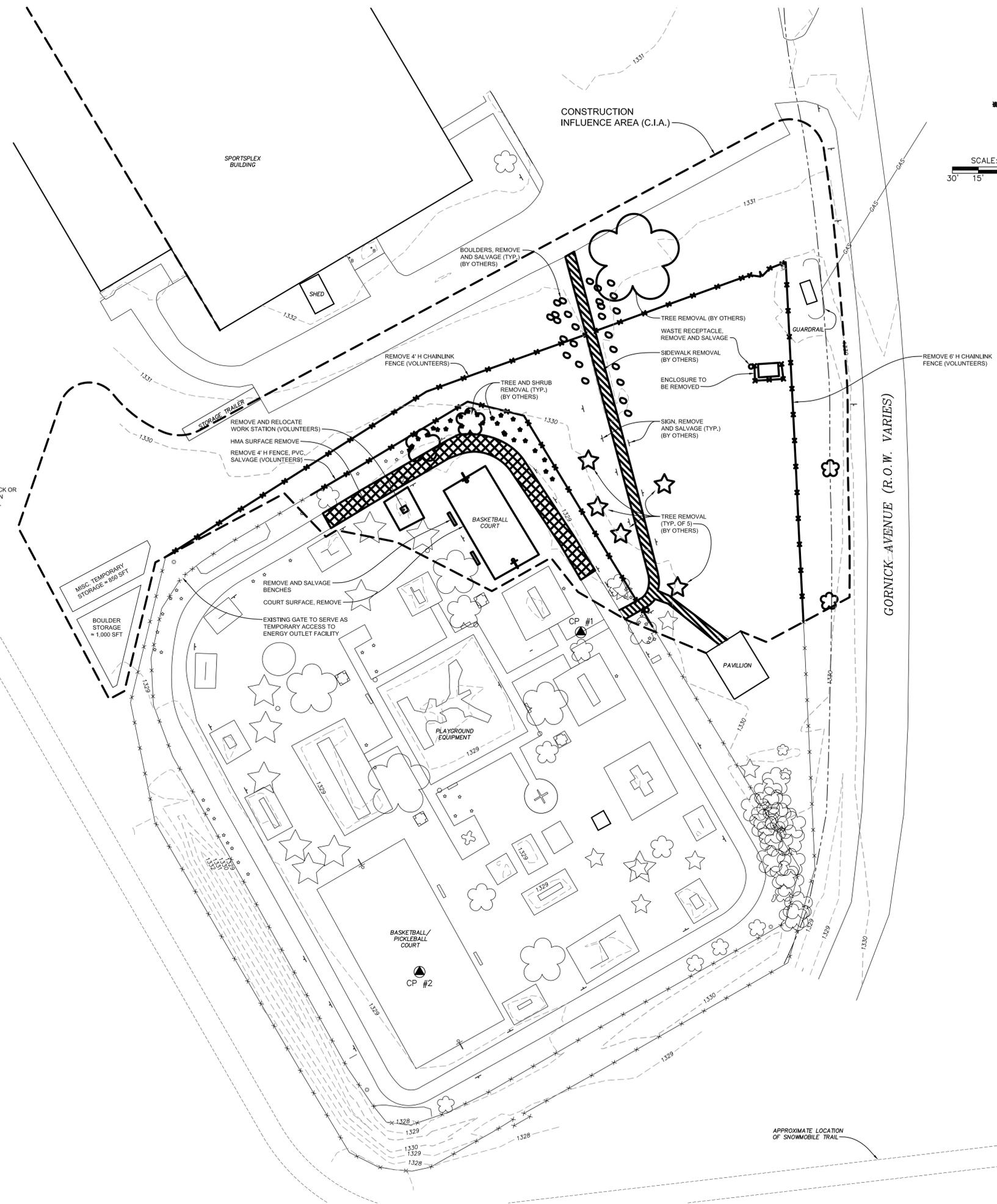


**NOTES:**

1. ALL HMA AND CONCRETE REMOVALS SHALL BE NEATLY SAW CUT AT THE REMOVAL LIMITS. SAW CUTS SHALL BE PERPENDICULAR TO ITS LENGTH.
2. CONTRACTOR SHALL REMOVE AND STOCKPILE ALL TOPSOIL FOR RE-USE.
3. CONTRACTOR TO CONSTRUCT TEMPORARY SNOW FENCE TO SECURE CIA FROM ENERGY OUTLET USERS. PROVIDE A DESIGNATED ACCESS TO EXISTING GATE DURING DURATION OF CONSTRUCTION. CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ENSURING SAFETY OF THOSE USING THE DESIGNATED ACCESS PATH.

**WORK BY OTHERS:**

1. THE GARDEN CLUB WILL REMOVE AND RELOCATE ALL TREES, SHRUBS, AND PLANTS TO BE SALVAGED WITHIN AREA IDENTIFIED AS C.I.A. ALL REMAINING LANDSCAPE FEATURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. (TREES TO BE REMOVED, TOPSOIL/TURF STRIPPING, ETC.)
2. FENCE FABRIC, POSTS, AND FOUNDATIONS WILL BE REMOVED BY VOLUNTEERS TO THE EXTENTS SHOWN.
3. THE EXERCISE STATION WILL BE RELOCATED BY VOLUNTEERS.
4. LANDSCAPE BOULDERS WILL BE MOVED TO A TEMPORARY STORAGE SITE AS IDENTIFIED ON THE DRAWINGS BY VOLUNTEERS.
5. SIGNS, POSTS, BENCHES, WASTE RECEPTACLES AND SIMILAR MISCELLANY WILL BE SALVAGED BY OWNER.
6. TREES TO BE REMOVED BY OTHERS.
7. TOPSOIL TO BE REMOVED AND STOCKPILED FOR LATER USE BY OTHERS.



APPROXIMATE LOCATION OF SNOWMOBILE TRAIL

NOTE: DO NOT BLOCK OR PLACE MATERIAL ON SNOWMOBILE TRAIL

APPROXIMATE LOCATION OF SNOWMOBILE TRAIL



  
**Sidock Group**  
 ARCHITECTS • ENGINEERS • CONSULTANTS  
 Corporate Headquarters  
 45650 Grand River Avenue  
 Novi, Michigan 48374  
 Ph: (248)349-4500 • Fax: (248)349-1429  
 Sault Ste. Marie Office  
 816 Ashmun Street  
 Sault Ste. Marie, Michigan 49783  
 Ph: (906)632-1500 Fax: (906)632-3220  
 Novi • Wyandotte • Muskegon  
 Lansing • Gaylord • Sault Ste. Marie  
 www.sidockgroup.com

Key Plan:

Client:  
**OTSEGO COUNTY**

Project:  
**OTSEGO COUNTY  
 SPORTSPLEX**

GORNICK AVENUE  
 GAYLORD, MI 49735  
 Seal:

Date	Issued For
7-12-2016	50% REVIEW
12-12-2016	USTA REVIEW
5-10-2017	BIDDING

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 Approved: JMM

Sheet Title:  
**PROPOSED  
 SITE PLAN**

Project Number: **514581**

Sheet Number: **C400**

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NOTES:  
 PRIOR TO OVERLAY, CONTRACTOR SHALL PATCH OR  
 SEAL ALL CRACKS 1/8" WIDE OR GREATER. COST TO  
 BE INCLUDED IN UNIT PRICE OF HMA.  
 ENGINEER WILL IDENTIFY ANY AREAS TO BE SAWCUT  
 AND PATCHED. WILL BE PAID AS HMA HAND PATCHING.



Sidock Group

ARCHITECTS • ENGINEERS • CONSULTANTS

Corporate Headquarters  
45650 Grand River Avenue  
Novi, Michigan 48374  
Ph: (248)349-4500 • Fax: (248)349-1429

Sault Ste. Marie Office  
816 Ashmun Street  
Sault Ste. Marie, Michigan 49783  
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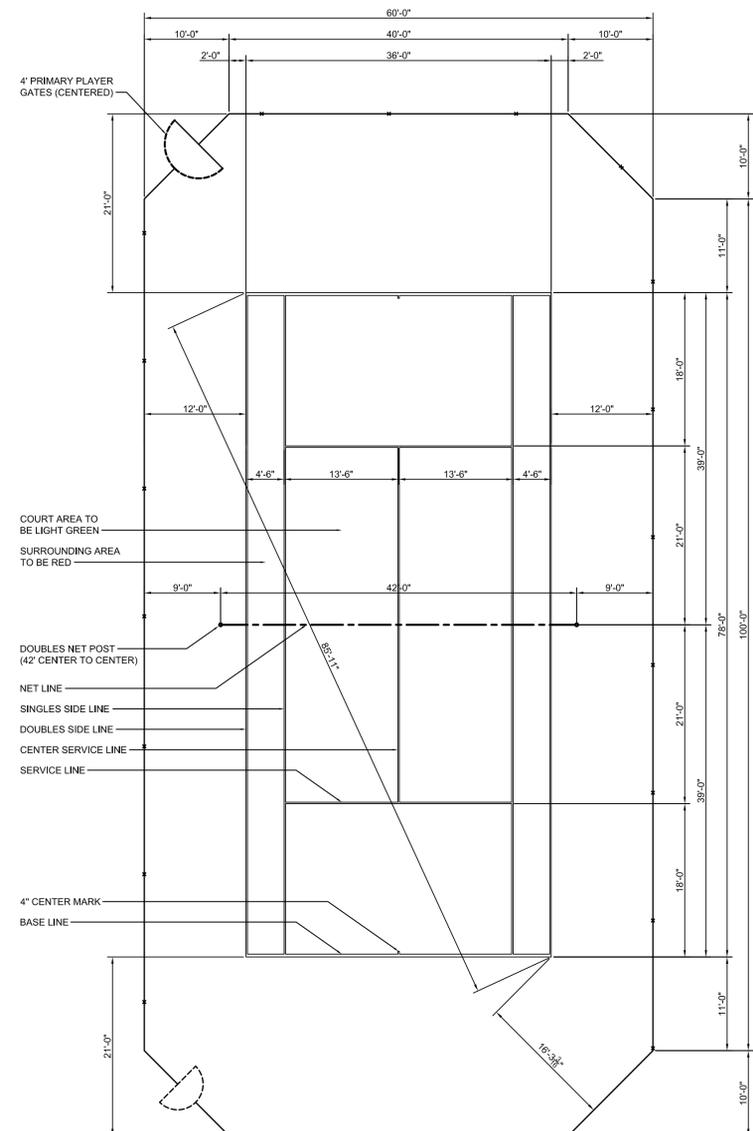
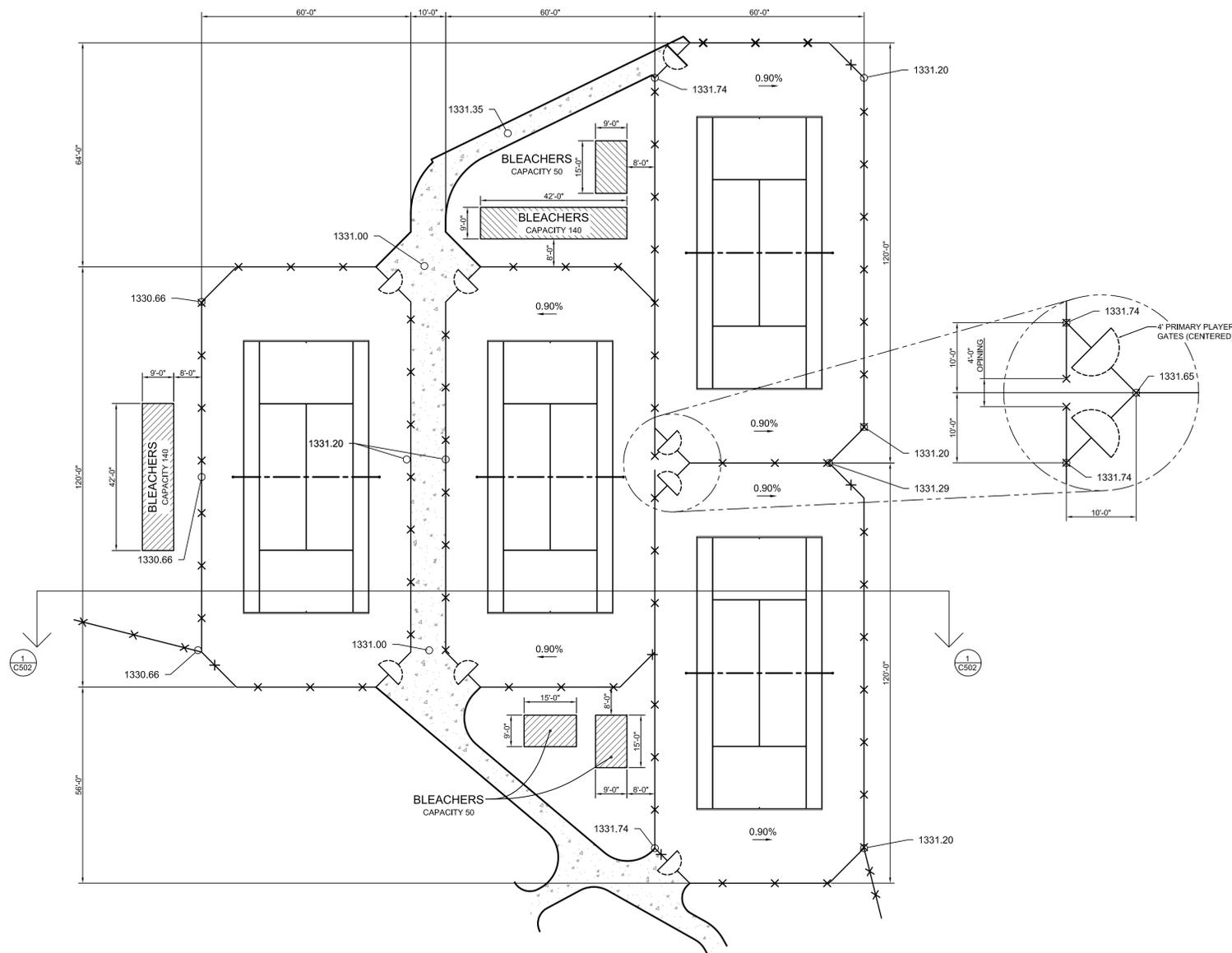
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OTSEGO COUNTY

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SPORTSPLEX

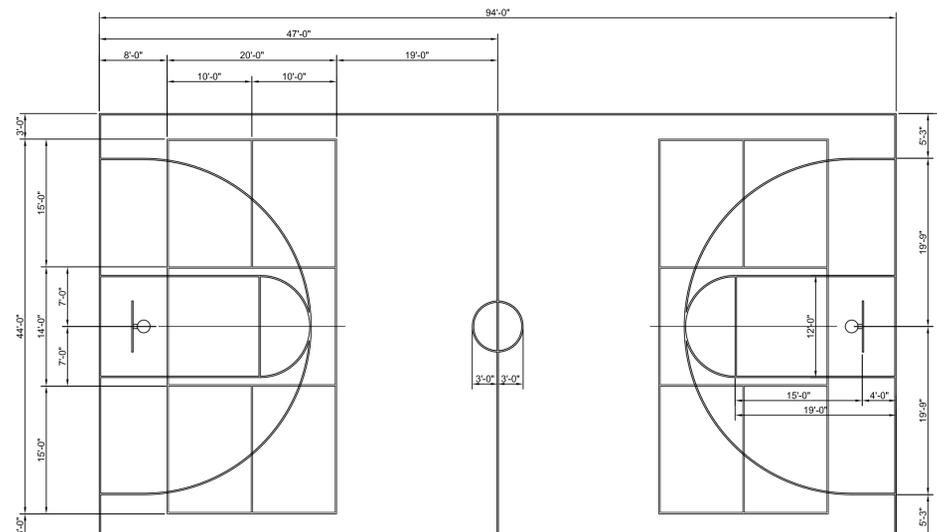
GORNICK AVENUE  
GAYLORD, MI 49735

Seal:



### TENNIS COURT CONFIGURATION

SCALE = 1:20



### BASKETBALL / PICKLEBALL COURT DETAIL

NOTES:

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE PLAYING LINES, WITH THE EXCEPTION OF THE CENTER LINES WHICH ARE MEASURED OUT TO CENTER.
2. ALL LINES SHALL BE 2" WIDE.



### TENNIS COURT DETAIL

NOTES:

1. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF THE PLAYING LINES, WITH THE EXCEPTION OF THE CENTER LINES WHICH ARE MEASURED OUT TO CENTER.
2. THE CENTER SERVICE LINE AND CENTER MARKS SHALL BE 2" WIDE. OTHER LINES SHALL BE 2" WIDE, EXCEPT THE BASE LINES MAY BE UP TO 4" WIDE.
3. COLORS:  
TENNIS COURT: GREEN  
STRIPING: WHITE  
ALL OTHER AREAS: RED
4. STRIPE COURTS WITH 36/160" BLENDED LINES ACCORDING TO USTA SPECIFICATIONS. BLENDED LINES TO BE 1 1/2" WIDE, TERMINATED 3 INCH FROM 78 FOOT COURT LINES, AND TEXTURED WITHIN SAME COLOR FAMILY AS PRIMARY 78 FOOT COURT LINES.

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5-10-2017	BIDDING

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Sheet Title:  
TENNIS COURT  
DETAILS

Project Number: 514581

Sheet Number: C500

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NOTE: PLANTINGS NOT INCLUDED IN SCOPE OF THIS CONTRACT.



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Corporate Headquarters  
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Key Plan:

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Project:

OTSEGO COUNTY SPORTSPLEX

GORNICK AVENUE  
GAYLORD, MI 49735

Seal:

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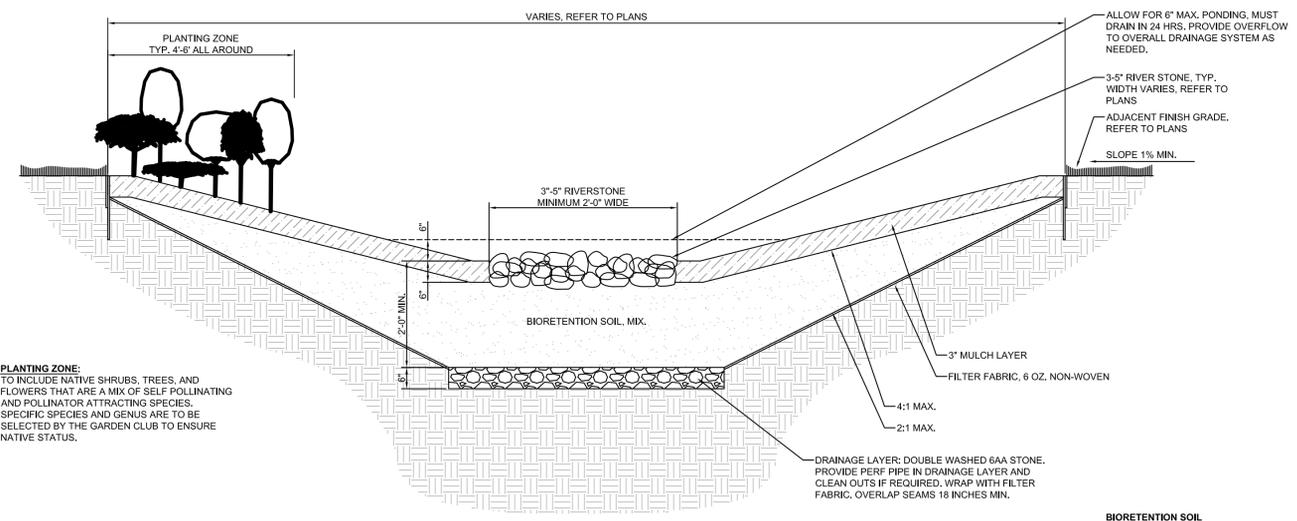
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Sheet Title:  
**RAIN GARDEN  
DETAILS**

Project Number: 514581

Sheet Number: **C502**

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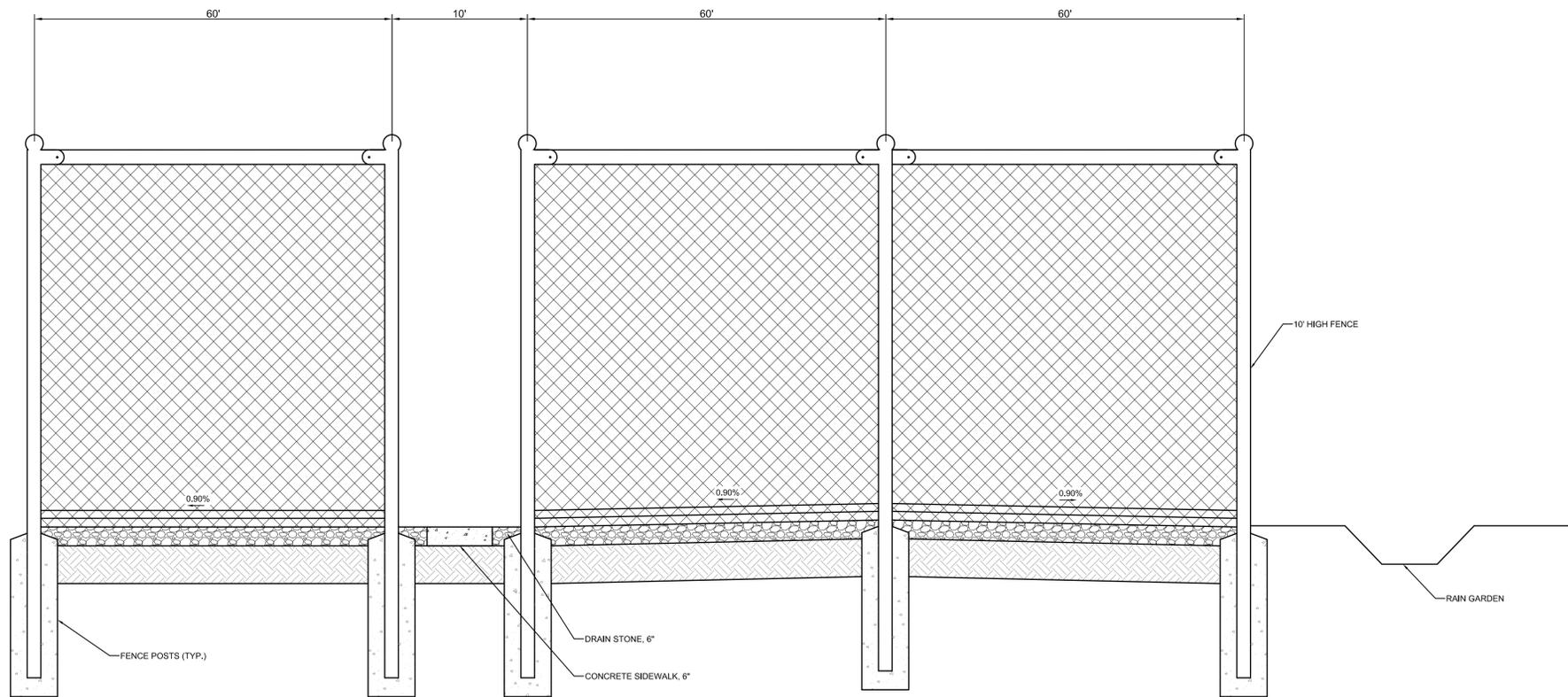
**PLANTING ZONE:**  
TO INCLUDE NATIVE SHRUBS, TREES, AND  
FLOWERS THAT ARE A MIX OF SELF POLLINATING  
AND POLLINATOR ATTRACTING SPECIES.  
SPECIFIC SPECIES AND GENUS ARE TO BE  
SELECTED BY THE GARDEN CLUB TO ENSURE  
NATIVE STATUS.

**TYPICAL BIORETENTION (RAIN GARDEN) SECTION**

**BIORETENTION SOIL**  
pH = 5.0 TO 7.0  
ORGANIC MATTER = 1.5-3.0%  
SAND = 40-70%  
SILT = LESS THAN 35%  
CLAY = LESS THAN 20%

FREE OF STONES, STUMPS, BRANCHES AND  
OTHER DEBRIS LARGER THAN 2 INCHES IN ANY  
DIMENSION.

MULCH SHALL BE 100% SHREDDDED HARDWOOD  
MULCH FREE OF TWIGS, LEAVES, GRASSES,  
WEEDS, SAW DUST, INSECTS, AND SEEDS.



**1 GATE DETAILS**  
C502 NTS