



**City Council Meeting
6:00 p.m., Monday, June 5, 2023
Conference Room
23600 Liberty Street
Farmington, MI 48335**

SPECIAL MEETING AGENDA

- 1. Roll Call**
- 2. Approval of Agenda**
- 3. Public Comment**
- 4. Discussion - Shiawassee Park tennis/pickleball court improvements**
- 5. Closed Session – Confidential correspondence from attorney**
- 6. Other Business**
- 7. Council Comment**
- 8. Adjournment**

The City will follow its normal procedures for accommodation of persons with disabilities. Those individuals needing accommodations for effective participation in this meeting should contact the City Clerk (248) 474-5500, ext. 2218 at least two working days in advance of the meeting. An attempt will be made to make reasonable accommodations.

Farmington City Council Staff Report	Council Meeting Date: June 5, 2023	Item Number 4
Submitted by: Charles Eudy, Superintendent		
Agenda Topic: Shiawassee Park Tennis/Pickleball Courts Improvements		
Proposed Motion: TBD		
<p>Background:</p> <p>For several years, consideration has been given to the repurposing of the tennis courts at Shiawassee Park to combination Tennis/Pickleball courts. During the budgeting cycle this year, Public Works contacted several reputable vendors who have conducted Tennis/Pickleball court improvements in other communities for proposals.</p> <p>This Fiscal Year has \$16,000 allocated for the Tennis/Pickleball Court Improvements. In addition, the Playscape fence replacement has \$11,000 of unused funding. Finance Director recommends supplementing Tennis/Pickleball improvements with the remaining fence funds.</p> <p>Last month, City Council was presented a simple remarking of the tennis courts for combination Tennis/Pickleball usage. Council did not approve the proposed Tennis/Pickleball court improvements due to several concerns. One of the concerns was that the existing tennis net height does not meet the pickleball net height requirements. Equipment is available to lower the tennis net height to meet the pickleball net height requirements at a minimal expense. A second concern was whether the tennis courts are being used enough to retain? Tennis courts were removed from Drake Park and replaced with sand volleyball courts.</p> <p>Public Works receives calls in the spring from residents asking when the tennis nets will be installed at Shiawassee Park. We have not received request to restripe the tennis courts to combination tennis/pickleball. Farmington High School has tennis courts.</p>		
<p>Materials:</p> <p>Shiawassee Park Tennis/Pickleball Court Improvements Example Project Email Fabens Park Tennis Court Renovations Email regarding Pickleball at Shiawassee Park Pickleball at Shiawassee Park rendering Email from Laser Sport Surfacing Briargate Tennis/Pickleball example</p>		

Shiawassee Park Tennis/Pickleball Court

Improvements

June 5, 2023

- Fiscal Year 22/23 \$16,000 allocated for tennis/pickle ball pavement marking improvements, not a redevelopment of the courts.
- An additional \$11,000 of Park Improvement funds remain available this Fiscal Year for improvements at Shiawassee Park

Tennis Courts

- 120' x 92' Asphalt area
- 124' x 108' inside the fence area
- Tennis Court dimensions 60' x 120'
- Pickleball court playing area dimensions 20'x 44'
- Pickleball recommended out of bounds area 30' x 60'
- Tennis net height at post 42"
- Tennis net height at center 36"
- Pickleball net height at post/edge of court not out of bounds 36"
- Pickleball net height at center 34"
- Tennis nets can be adjusted to meet pickle ball height requirements by using proper equipment

Improvements needed to provide lighting to Tennis/Pickleball Courts

- Currently 100 amp DTE meter and disconnect at Power Road feeding the pavilion
- Pavilion has only 2-twenty amp circuits feeding 4 GFCI outlets and light pole circuit for tennis courts
- Tennis court light pole were removed many years ago
- DTE provide new \$200 AMP Service drop \$2,000
- Install new weatherproof 200 amp electrical panel near pavilion to provide multiple circuits for outlets and lights at pavilion \$6,000
- Tennis/Pickleball court light pole and lights: \$5,000 per pole
- 9 Poles, 12 lights are recommended for a playing area of 92' x 120' The three center poles should be equipped with two lights each
- Gravel walking path to courts \$4,000
- Install new pavilion lighting and outlets \$4,000

Pickleball Example Project

Email from Austin dated 5/19/2023

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Chuck – see below and attached. Based on court dimensions (include clear spaces beyond the court), I think you'd be looking at 4 legitimately sized courts within the existing area. You could squeeze 5 or 6 if you ran 3 perpendicular to the existing tennis courts and 2 parallel to the existing courts; however, you would have to lose a couple feet of clear zone spacing if doing so and I don't think that's a great idea from a safety perspective. This guy could work up more cost information if you'd like, but I told him to hold off unless you'd like it.

My opinion is that you either (1) eliminate both tennis courts for 4 new pickleball courts or (2) you eliminate only one tennis court entirely in favor of 2 permanent pickleball courts and also add pickleball striping to the tennis court you're leaving which would then just utilize a shared net. I can see the net issue becoming a problem and I think it makes the most sense to have a facility where you're only putting a net in place in the spring and taking it out for storage prior to fall/winter. The discussion between leaving 1 tennis court or eliminating both just depends on if Council feels it puts too much pressure on utilizing the school courts when there could be events or other teams using those as scheduled.

AUSTIN DOWNIE | OHM Advisors® | est.1962
CLIENT REPRESENTATIVE

D (734) 466-4437 C (330) 550-8345 O (734) 522-6711

austin.downie@ohm-advisors.com | OHM-Advisors.com

From: Jeremy Hinte <Jeremy.Hinte@ohm-advisors.com>

Sent: Thursday, May 18, 2023 1:05 PM

To: Austin Downie <Austin.Downie@ohm-advisors.com>

Subject: RE: Pickleball Example Project

Austin,

Please see my responses below in red:

JEREMY HINTE, PLA, ASLA | OHM Advisors® | est.1962
PROJECT MANAGER

D (216) 865-1337 C (216) 339-7412 O (216) 865-1335

jeremy.hinte@ohm-advisors.com | OHM-Advisors.com

From: Austin Downie <Austin.Downie@ohm-advisors.com>
Sent: Thursday, May 18, 2023 12:50 PM
To: Jeremy Hinte <Jeremy.Hinte@ohm-advisors.com>
Subject: RE: Pickleball Example Project

This is awesome – thank you!

A couple questions at the moment:

1. For the courts that are both tennis and pickleball, what do they do with the pickleball nets? **If it's 1 pickleball and 1 tennis court, they share the same net. If it's 1 tennis with (2) pickleballs on either side of the tennis net, it's common to use portable pickleball nets and the tennis net is used as the barrier between pickleball.** You can get away with always leaving the tennis nets up, but you can't for pickleball so is there a cap that can be put over the sleeve while not in use? **Portable nets are more common than sleeves.** Does the municipality determine when the pickleball nets are in place vs. when they're not? **Most groups use portable nets and allow the pickleball clubs to set them up for use. If there is not a strong pickleball club, I would suggest sharing the tennis net, or installing dedicated pickleball courts.**
2. Could the same adjustable net be utilized for both tennis and pickleball? **Yes and this is extremely common, but a tennis net is technically 2 inches higher than pickleball so it's only recommended for recreational courts, not competition.**
3. Do you have any quotes for pickleball materials? Nets, approx. cost of 1 brand new court, etc.? Just curious what the costs look like. **Permanent net post system costs are same as tennis, or around \$3,500 each (includes foundations). Portable nets are about \$400-\$500 for something decent. Pavement and surfacing costs are the same as tennis. For costs, I'd need a bit more information regarding if it's a new court, or rehab, and the existing court conditions. The Fabens project I sent you base bid was around \$445k for the base bid.**

AUSTIN DOWNIE | OHM Advisors® | est.1962
CLIENT REPRESENTATIVE

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austin.downie@ohm-advisors.com | OHM-Advisors.com

From: Jeremy Hinte <Jeremy.Hinte@ohm-advisors.com>
Sent: Thursday, May 18, 2023 12:31 PM
To: Austin Downie <Austin.Downie@ohm-advisors.com>
Subject: Pickleball Example Project

Austin,

For even more information, we recently bid a tennis court rehab which included pickleball options, which can be located here: <P:\3000 3499\3002220170 Fabens Park Tennis Courts\ Construction\03 Plan Bid Set\04 - Plans\Bid Set>

Let me know if you have any questions / clarifications.

Thanks!

Jeremy

JEREMY HINTE, PLA, ASLA
PROJECT MANAGER

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FABENS PARK TENNIS COURT RENOVATIONS

1 FABENS WAY, HURON, 44839

FOR BIDDING AND CONSTRUCTION

04.10.2023

Owner:
City of Huron
 417 Main St.
 Huron, OH 44839
 Monty Tapp, Mayor

Landscape Architect:
OHM Advisors
 6001 EUCLID AVE, SUITE 130
 CLEVELAND, OH 44103
 P (216) 865-1335 | F (440) 546-1059

DRAWING INDEX

C-000	COVER
G-100	GENERAL NOTES
C-101	REMOVAL PLAN - NORTH COURTS
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C-103	ALT. NO. 02 - TREE REMOVAL PLAN
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C-202	LAYOUT PLAN - SOUTH COURTS
C-203	ALT. NO. 01 - LAYOUT PLAN
C-204	COLOR SURFACING PLAN - NORTH COURTS
C-205	COLOR SURFACING PLAN - SOUTH COURTS
C-206	ALT. NO. 01 - COLOR SURFACING PLAN - NORTH COURTS
C-501	DETAILS
C-502	DETAILS

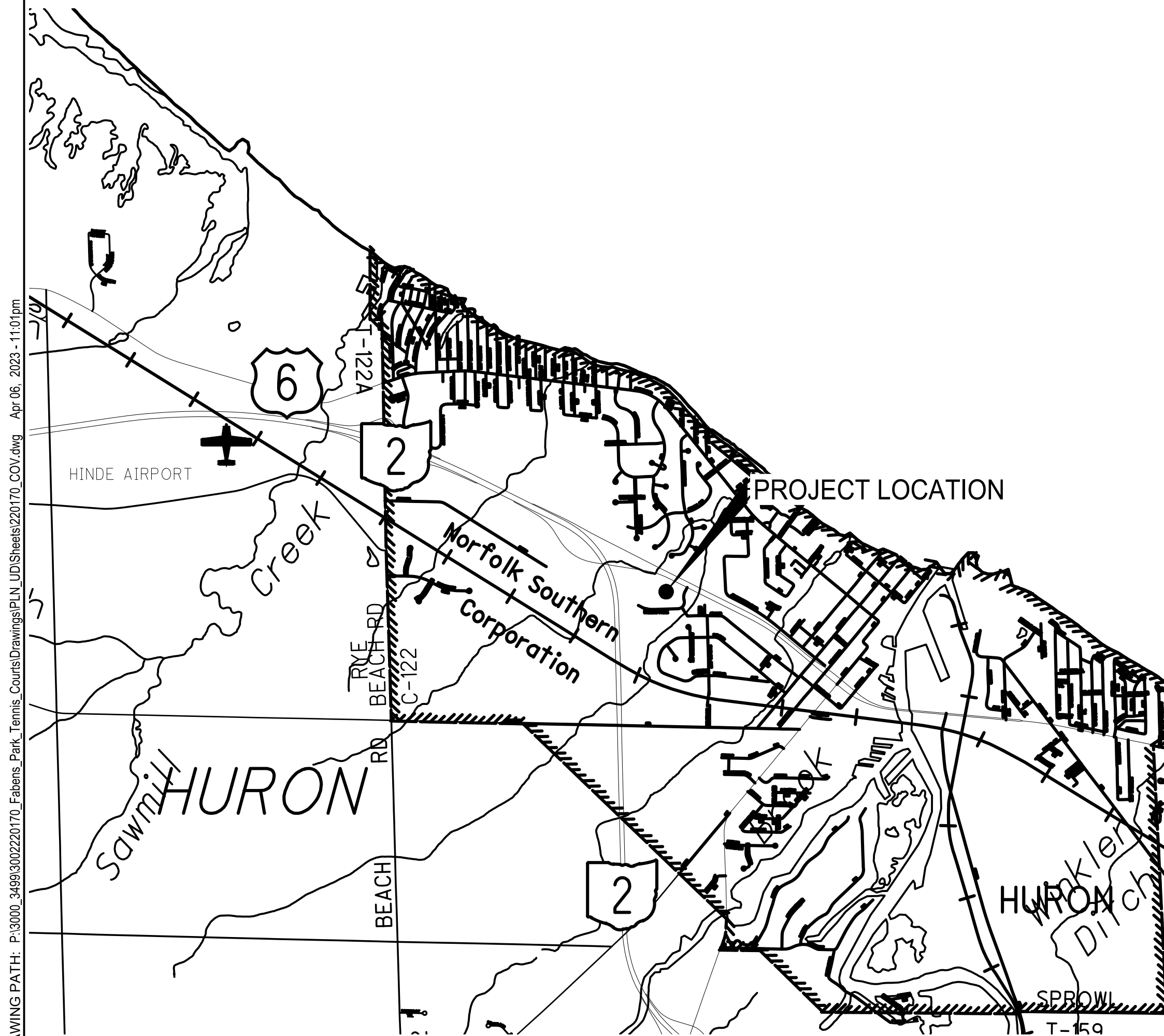
PROJECT DESCRIPTION

THIS PROJECT RENOVATES (5) ASPHALT TENNIS COURTS WITH PICKLEBALL STRIPING, AND DRAINAGE IMPROVEMENTS IN ANDREW FABENS MEMORIAL PARK AT FABENS WAY.

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

SITE DATA	
MUNICIPALITY:	CITY OF HURON
PARCEL NUMBER:	42-64033.000
ZONING DISTRICT:	R-1 ONE FAMILY RESIDENTIAL
TOTAL LOT AREA:	21.24 ACRES
BASE BID DISTURBED AREA:	0.04 ACRES



VICINITY MAP - NOT TO SCALE



6001 Euclid Ave, Suite 130
 Cleveland, OH 44103
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 OHM-ADVISORS.COM

ISSUE - FOR BIDDING AND CONSTRUCTION
 REVISIONS

DATE 04.10.2023
 PROJ NUMBER 302220170
 PROJ MGR JH
 CADD CB
 COUNTY ERIE
 MUNICIPALITY CITY OF HURON

CITY OF HURON
 FABENS PARK TENNIS COURT RENOVATIONS
 COVER SHEET

SHEET
 C-000

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DRAWING PATH: P:\3000_3498\300220170_Fabens_Park_Tennis_Courts\Drawings\PLN_LUD\Sheets\220170_NOT.dwg_Apr 06, 2023 - 11:02am

GENERAL NOTES:

1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT, SITE CONDITIONS, WEATHER LIMITATIONS, SCHEDULE LIMITATIONS, PLANS, SPECIFICATIONS, STANDARD DRAWINGS AND ANY OTHER DOCUMENTS ASSOCIATED WITH THE PROJECT, PRIOR TO BIDDING ON THIS PROJECT.
2. THE CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH ALL DOCUMENTED UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. LAYOUT MAY BE PERFORMED WITH THE USE OF ELECTRONIC DRAWING FILES PROVIDED BY THE CONSULTANT. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY, CONTACT THE OWNER IF DISCREPANCIES EXIST.
4. ALL DIMENSIONS ON THIS DRAWING ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS SHOWN REFERENCE EDGES OF PAVEMENTS AND FACE OF CURB UNLESS OTHERWISE NOTED.
6. ALL WORK TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. THE CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
7. THE CONTRACTOR SHALL KEEP A LEGIBLE AND CURRENT COPY OF THE APPROVED PLANS AND BID SPECIFICATIONS ON SITE AT ALL TIMES.
8. THE BID SPECIFICATIONS AND CONTRACT DRAWINGS SHALL GOVERN THIS IMPROVEMENT. WITHIN THIS PROJECT ARE REFERENCES TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS (CMS), LATEST EDITION. THESE REFERENCES TO ODOT SHALL GOVERN THIS IMPROVEMENT WHERE NOTED ON THE CONTRACT DRAWINGS OR REFERENCED IN THE TECHNICAL SPECIFICATIONS. OTHERWISE THE BID SPECIFICATIONS AND CONTRACT DRAWINGS WILL PREVAIL.
9. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL REQUEST AND ATTEND A PRE-CONSTRUCTION MEETING.
10. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS AND MATERIAL SHEETS FOR REVIEW, A LIST OF ALL SUBCONTRACTORS, A WRITTEN SCHEDULE FOR THE PROJECT, EMERGENCY NUMBERS, AND OTHER ITEMS REQUESTED BY THE ENGINEER, PRIOR TO BEGINNING ANY WORK ON THE PROJECT.
11. ANY CHANGE ORDERS TO THE ORIGINAL CONTRACT DOCUMENTS MUST BE SUBMITTED IN WRITING BY THE CONTRACTOR, TO THE ENGINEER, FOR REVIEW AND APPROVAL / DISAPPROVAL BY THE OWNER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON SUSPECTING A PENDING CHANGE ORDER. THE OWNER WILL REVIEW EACH REQUEST IN A TIMELY FASHION. ANY WORK COMPLETED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN AUTHORIZATION WILL NOT BE PAID BY THE OWNER (COST WILL BE BORNE BY THE CONTRACTOR).
12. ANY DEFECTS IN CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE. THE COST SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
13. MATERIALS AND EQUIPMENT SHALL NOT BE STORED IN PUBLIC RIGHTS OF WAY OR WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN. ON-SITE STORAGE AREAS NOT NOTED ON THE PLANS MUST BE APPROVED BY THE OWNER PRIOR TO PLACING ANY MATERIAL OR EQUIPMENT.
14. ALL EXCESS AND DEMOLISHED MATERIALS, SUCH AS BUT NOT LIMITED TO SOIL, TOPSOIL, EXCAVATION, PIPE ETC., SHALL BE HAULED FROM THE SITE AND PROPERLY DISPOSED OF LEGALLY, UNLESS NOTED OTHERWISE ON PLANS. NO PAYMENT WILL BE MADE FOR HAULING MATERIALS FROM THE SITE.
15. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS UNKNOWN CONDITIONS MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
16. THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES AFFECTED BY CONSTRUCTION OPERATIONS CLEAN AND FULLY OPERATIONAL AT ALL TIMES.
17. IN THE EVENT THAT DISCREPANCIES ARISE BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL FIELD CONDITIONS THE OWNER SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION.

SAFETY

1. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTION AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR(S) TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
2. THE ENGINEER RESERVES THE RIGHT TO SHUT-DOWN THE PROJECT WITH NO RESPONSIBILITY TO DELAY CLAIMS OR PROJECT SCHEDULE, SHOULD THE CONTRACTOR FAIL TO PROVIDE A SAFE ENVIRONMENT FOR WORKERS AND/OR THE PUBLIC.

LIMITS OF WORK

1. THE LIMIT OF WORK SHOWN DEFINES THE APPROXIMATE LIMITS OF WORK IN THIS CONTRACT. THERE MAY BE INSTANCES WHERE EROSION PROTECTION DEVICES, UTILITY SYSTEMS, AND GRADING OPERATIONS EXTEND BEYOND THE PROJECT LIMITS LINE IN ORDER TO SUCCESSFULLY COMPLETE OPERATIONS AND/OR TIE INTO ADJACENT SYSTEMS.
2. THE LIMITS OF WORK SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.
3. AREAS BEYOND THE CONSTRUCTION LIMITS, DISTURBED BY CONSTRUCTION ACTIVITY, SHALL BE RESTORED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

SURVEY/LAYOUT

1. DO NOT SCALE FROM THESE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO FACE OF CURB AND EDGE OF PAVEMENT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE OWNER.
2. AUTOCAD DRAWING FILES WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.

PROTECTION AND RESTORATION OF PROPERTY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND RESTORATION OF ALL PUBLIC AND PRIVATE PROPERTY, ROAD SURFACES, EASEMENTS, RIGHTS OF WAY, UTILITIES, STORM SEWERS, SANITARY SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILING, MAIL AND/OR PAPER BOXES, DRIVE CULVERTS, FENCES, TREES, LANDSCAPING, OTHER IMPROVEMENTS AND VEGETATION DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS. RESTORATION SHALL BE AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL KEEP ALL STREETS ADJACENT TO THE PROJECT AREA CLEAN AND FREE FROM ANY DEBRIS, MUD AND/OR OTHER CONSTRUCTION EQUIPMENT AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL REMOVE ANY DEBRIS AND MUD FROM PUBLIC STREETS AND PARKING LOTS AT THE END OF EACH WORK DAY.

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

1. ITEMS SHOWN ON THE DRAWINGS TO BE REMOVED SHALL BE REMOVED PER ODOT ITEM 202. PAVEMENT TO BE REMOVED SHALL HAVE A SMOOTH, FULL DEPTH SAW CUT.

EARTHWORK

1. EXCAVATION, EMBANKMENT AND COMPACTION SHALL COMPLY WITH ODOT ITEM 203. ALL EARTHWORK, INCLUDING FURNISHING SUITABLE MATERIAL NECESSARY TO ACHIEVE THE PLAN ELEVATIONS & GRADES, SHALL BE INCLUDED IN CONTRACTOR'S BID. SUITABLE ON-SITE MATERIAL MAY BE USED AS EMBANKMENT IN ACCORDANCE WITH ODOT ITEM 203. ALL EXCESS MATERIALS THAT WILL NOT BE REUSED ON SITE SHALL BE REMOVED AND LEGALLY DISPOSED OF.
2. NUCLEAR COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT GEOTECHNICAL REPORT. CONTRACTOR TO ENGAGE A QUALIFIED GEOTECHNICAL ENGINEERING TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.
3. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MAINTAIN ALL TRENCH WORK ON THE PROJECT. FAILURE OF TRENCH WALLS, BOTTOM OF TRENCH, AND ALL MATERIALS AROUND THE TRENCH, INCLUDING THE PAVEMENT, CURB, SIDEWALK, EARTHWORK, ETC., WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL MAINTAIN UNIFORM AND POSITIVE SLOPES ON ALL GRADED SURFACES TO PREVENT STANDING WATER, AS INDICATED ON GRADING PLANS.

UTILITIES

1. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN ON THESE PLANS OR NOT, IN ACCORDANCE WITH ORC 153.64.
3. THE CONTRACTOR SHALL INSTALL FACILITIES AT THE REQUIRED HORIZONTAL AND VERTICAL CLEARANCES. THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION OF PROPOSED WORK TO VERIFY THE REQUIRED VERTICAL AND HORIZONTAL CLEARANCE IS AVAILABLE. PRIOR TO CONSTRUCTION OF THE PROPOSED FACILITY, THE ENGINEER CANNOT GUARANTEE EXACT DEPTHS OF EXISTING UTILITIES. IN THE CASE OF CONFLICT BETWEEN UTILITIES, THE ENGINEER SHALL DETERMINE THE PROPOSED COURSE OF ACTION TO ELIMINATE THE CONFLICT.
4. THE CONTRACTOR SHALL REPAIR AT HIS OWN EXPENSE, ANY DAMAGE, WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS, TO UTILITY SYSTEMS, SURFACE PAVEMENTS, FIXTURES OR STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED TO BE REMOVED OR RELOCATED AS PART OF THE PROJECT CONSTRUCTION. IN THE EVENT THAT ANY EXISTING DRAINAGE STRUCTURES OR UTILITIES ARE DAMAGED AND THE SERVICES DISRUPTED, THE LINES SHALL BE IMMEDIATELY REPAIRED AND THE SERVICES RESTORED AS DIRECTED BY THE OWNER AT NO COST TO THE VILLAGE OF BOSTON HEIGHTS. SEE DRAWINGS FOR DEMOLITION LOCATIONS.
5. AT ALL UTILITY CROSSINGS, THE TRENCH BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE PIPES.
6. ALL EXISTING MANHOLES, CATCH BASINS, UTILITY BOXES, VALVES BOXES, ETC. SHALL BE ADJUSTED TO MATCH THE FINISHED GRADE OF THE PROJECT.
7. THE OWNER/ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR NEGLIGENCE, NON-PARTICIPATION, ERRORS, OMISSIONS, OR INACCURACIES OF WORK CONDUCTED BY UTILITY COMPANIES, THEIR CONTRACTORS, LOCATION SERVICES, OR OTHERS.

STORM SYSTEMS

1. BACKFILL FOR ALL PIPES WITHIN THE INFLUENCE LINE OF THE PAVEMENT (STREET, DRIVEWAYS, SIDEWALKS, ETC.) SHALL BE FULL DEPTH COMPACTED GRANULAR EMBANKMENT MEETING THE REQUIREMENTS OF ODOT ITEM 611 OR ODOT ITEM 605, AS APPLICABLE. THE INFLUENCE LINE OF THE PAVEMENT IS DEFINED AS A LINE EXTENDING DOWNWARD AT A 45 DEGREE ANGLE FROM A POINT 2 FEET BEYOND THE PAVEMENT. COMPACTION AND TESTING REQUIREMENTS SHALL MEET THE ODOT SPECIFICATION.
2. ALL EXISTING PIPES, ROOF DRAINS, DRAIN TILES, SUMP PUMP CONNECTIONS, SPRING DRAINS, OR FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE CONNECTED TO THE STORM SEWER SYSTEM OR ROOF DRAIN COLLECTOR SYSTEM, AS DIRECTED BY THE ENGINEER. ROOF DRAINS, FOUNDATION DRAINS OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.



ISSUE FOR BIDDING AND CONSTRUCTION

REVISIONS

DATE: 04/10/2023
 PROJ. NUMBER: 300220170
 PROJ. MGR: JH
 CADD: CB
 COUNTY: ERIE
 MUNICIPALITY: CITY OF HURON

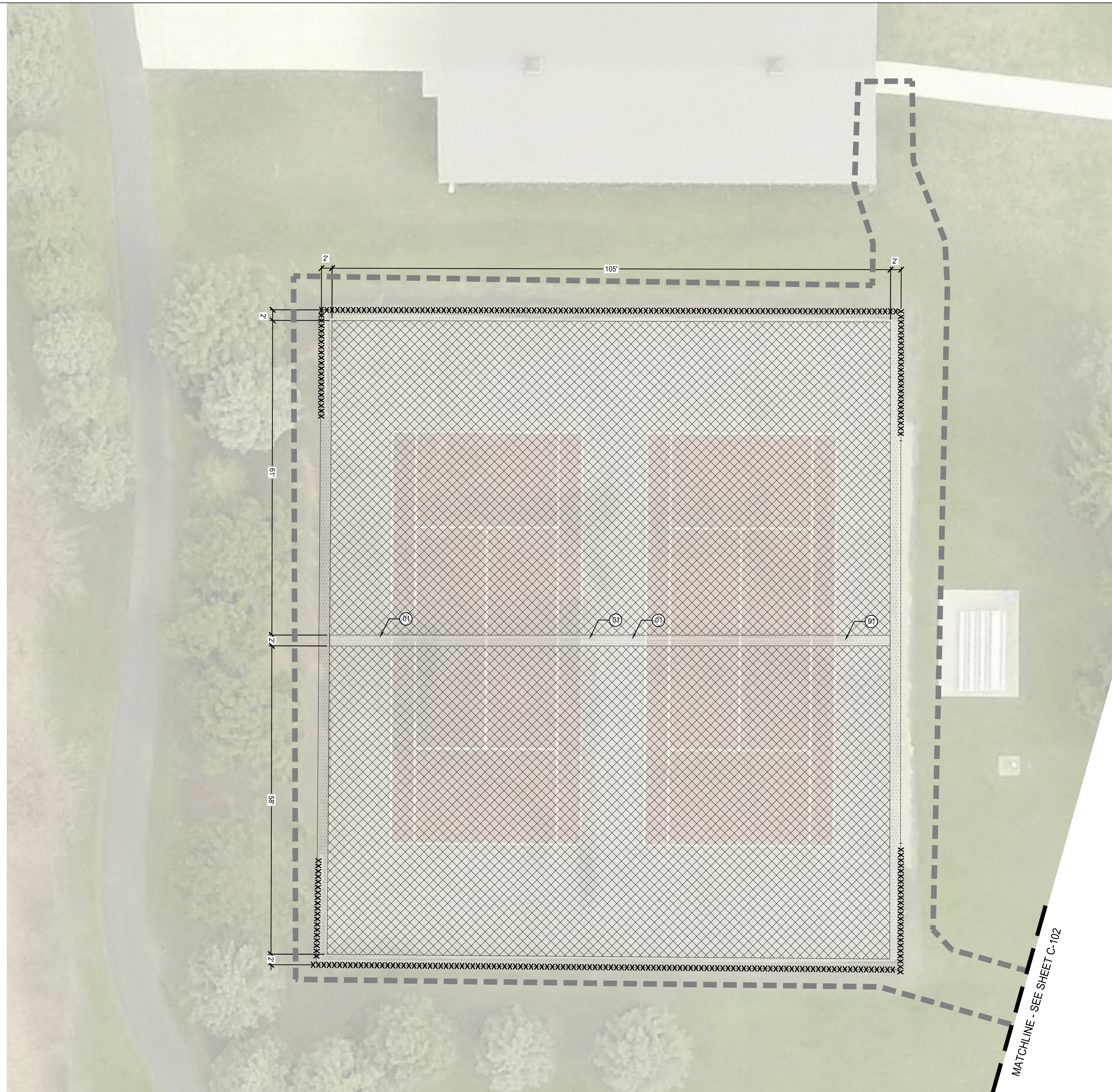
CITY OF HURON
 FABENS PARK TENNIS COURT RENOVATIONS
 GENERAL NOTES

SHEET






G-100

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DRAWING PATH: P:\3000_3498\300220170_Fabens_Park_Tennis_Courts\Drawings\PLN_LUD\Sheets\220170_REM.dwg Apr 06, 2023 - 11:02am



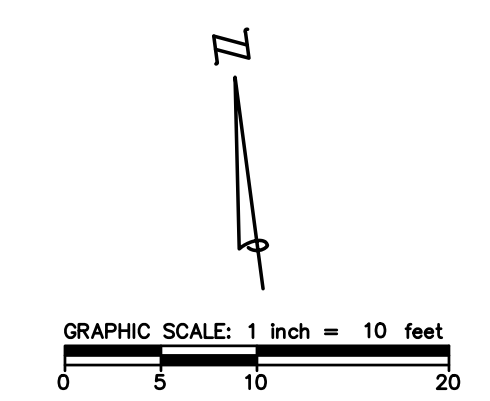
LEGEND:

-  ITEM 253 - PAVEMENT REPAIR TYPE 1 - SEE DET 02 SHEET C-501
-  ITEM 202 - PAVEMENT PLANING (2")
-  ITEM 202 - CHAIN LINK FENCE REMOVED, INCLUDING FOUNDATIONS
-  LIMIT OF WORK
-  ITEM 202 - NET POSTS AND FOUNDATION REMOVED

NOTES:

1. REMOVE AND DISPOSE OF ALL MAN-MADE TRASH, AND DEBRIS FOUND WITHIN LIMIT OF WORK.
2. ALL PAVEMENT REMOVAL SHALL HAVE CLEAN, SAWCUT EDGES WHERE EXISTING PAVEMENT IS TO REMAIN.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988
4. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN ON THESE PLANS OR NOT, IN ACCORDANCE WITH ORC 153.64.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, ALL EXISTING UTILITIES, SERVICE LINES, LATERALS, ETC., DAMAGED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER.
6. THE OWNER/ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR NEGLIGENCE, NON-PARTICIPATION, ERRORS, OMISSIONS, OR INACCURACIES OF WORK CONDUCTED BY UTILITY COMPANIES, THEIR CONTRACTORS, LOCATION SERVICES, OR OTHERS.
7. EXPOSED PAVEMENT SUBGRADE SHALL BE SEALED/COVERED AT END OF EACH DAY TO PROTECT SUBGRADE FROM MOISTURE, EROSION, AND CONTAMINATION. CONTRACTOR TO REPAIR DAMAGED SUBGRADE DUE TO SUBGRADE EXPOSURE.
8. ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIALS, COORDINATION, ETC., FOR ALL ASPECTS OF WORK DESCRIBED IN THE ABOVE NOTES AND ASSOCIATED REQUIREMENTS, SHALL BE INCLUDED IN THE PROJECT.



*****UTILITIES - ATTENTION BIDDERS/CONTRACTORS*****
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REVISIONS

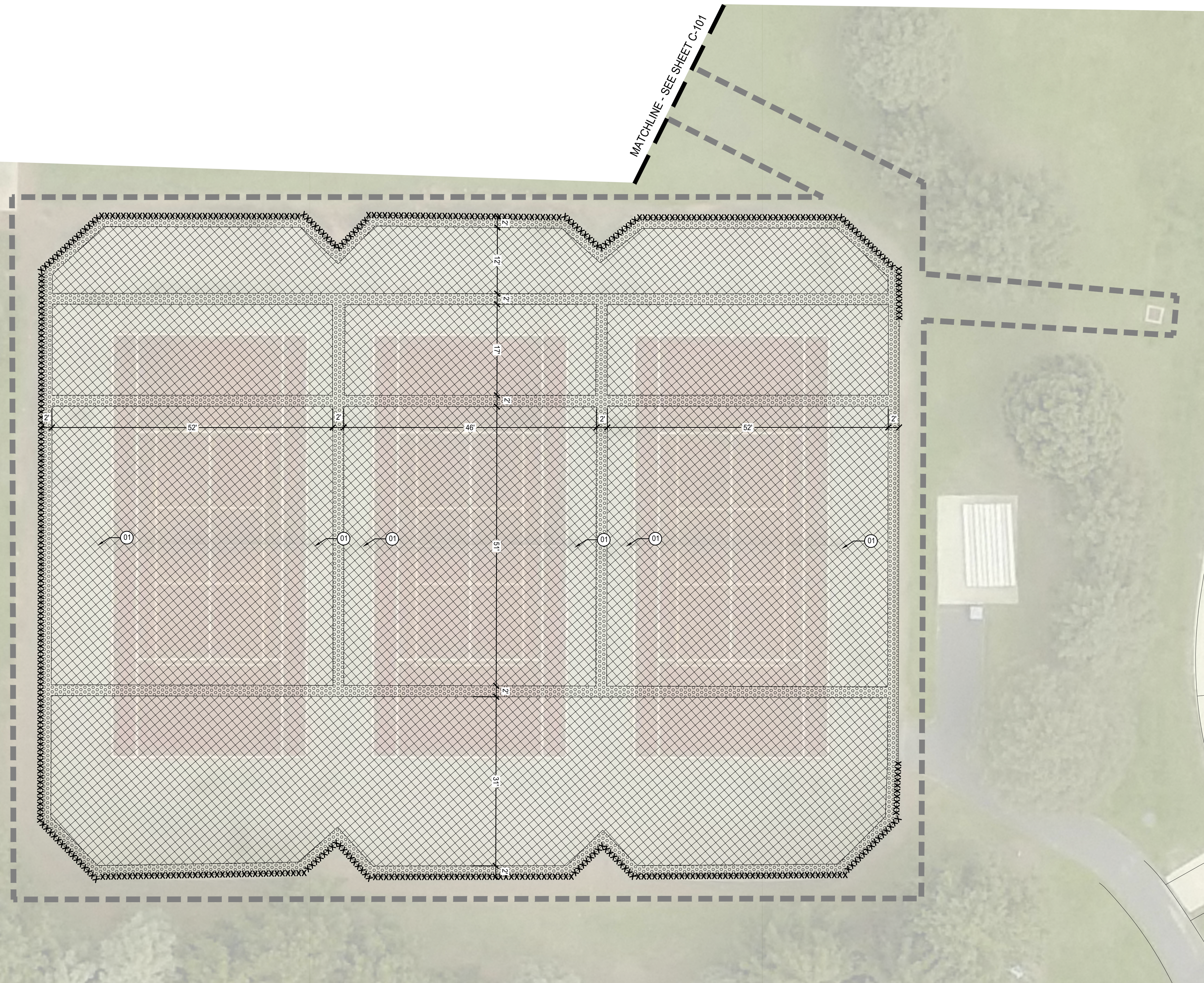
PROJ NUMBER	300220170
PROJ MGR	JH
CADD	CB
COUNTY	ERIE
MUNICIPALITY	CITY OF HURON

CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
REMOVAL PLAN - NORTH COURTS

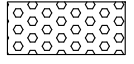



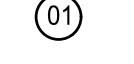
SHEET **C-101**

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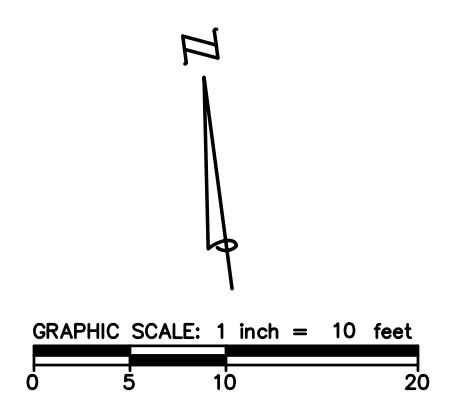
LEGEND:

-  ITEM 253 - PAVEMENT REPAIR TYPE 2 - SEE DET 03 SHEET C-501
-  ITEM 202 - PAVEMENT PLANING (2")
-  ITEM 202 - CHAIN LINK FENCE REMOVED, INCLUDING FOUNDATIONS
-  LIMIT OF WORK
-  ITEM 202 - NET POSTS AND FOUNDATION REMOVED

NOTES:

1. REMOVE AND DISPOSE OF ALL MAN-MADE TRASH, AND DEBRIS FOUND WITHIN LIMIT OF WORK.
2. ALL PAVEMENT REMOVAL SHALL HAVE CLEAN, SAWCUT EDGES WHERE EXISTING PAVEMENT IS TO REMAIN.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
OGPUPS 1-800-925-0988
4. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN ON THESE PLANS OR NOT, IN ACCORDANCE WITH ORC 153.64.
5. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, ALL EXISTING UTILITIES, SERVICE LINES, LATERALS, ETC., DAMAGED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED TO THE SATISFACTION OF THE UTILITY OWNER.
6. THE OWNER/ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR NEGLIGENCE, NON-PARTICIPATION, ERRORS, OMISSIONS, OR INACCURACIES OF WORK CONDUCTED BY UTILITY COMPANIES, THEIR CONTRACTORS, LOCATION SERVICES, OR OTHERS.
7. EXPOSED PAVEMENT SUBGRADE SHALL BE SEALED/COVERED AT END OF EACH DAY TO PROTECT SUBGRADE FROM MOISTURE, EROSION, AND CONTAMINATION. CONTRACTOR TO REPAIR DAMAGED SUBGRADE DUE TO SUBGRADE EXPOSURE.
8. ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIALS, COORDINATION, ETC., FOR ALL ASPECTS OF WORK DESCRIBED IN THE ABOVE NOTES AND ASSOCIATED REQUIREMENTS, SHALL BE INCLUDED IN THE PROJECT.



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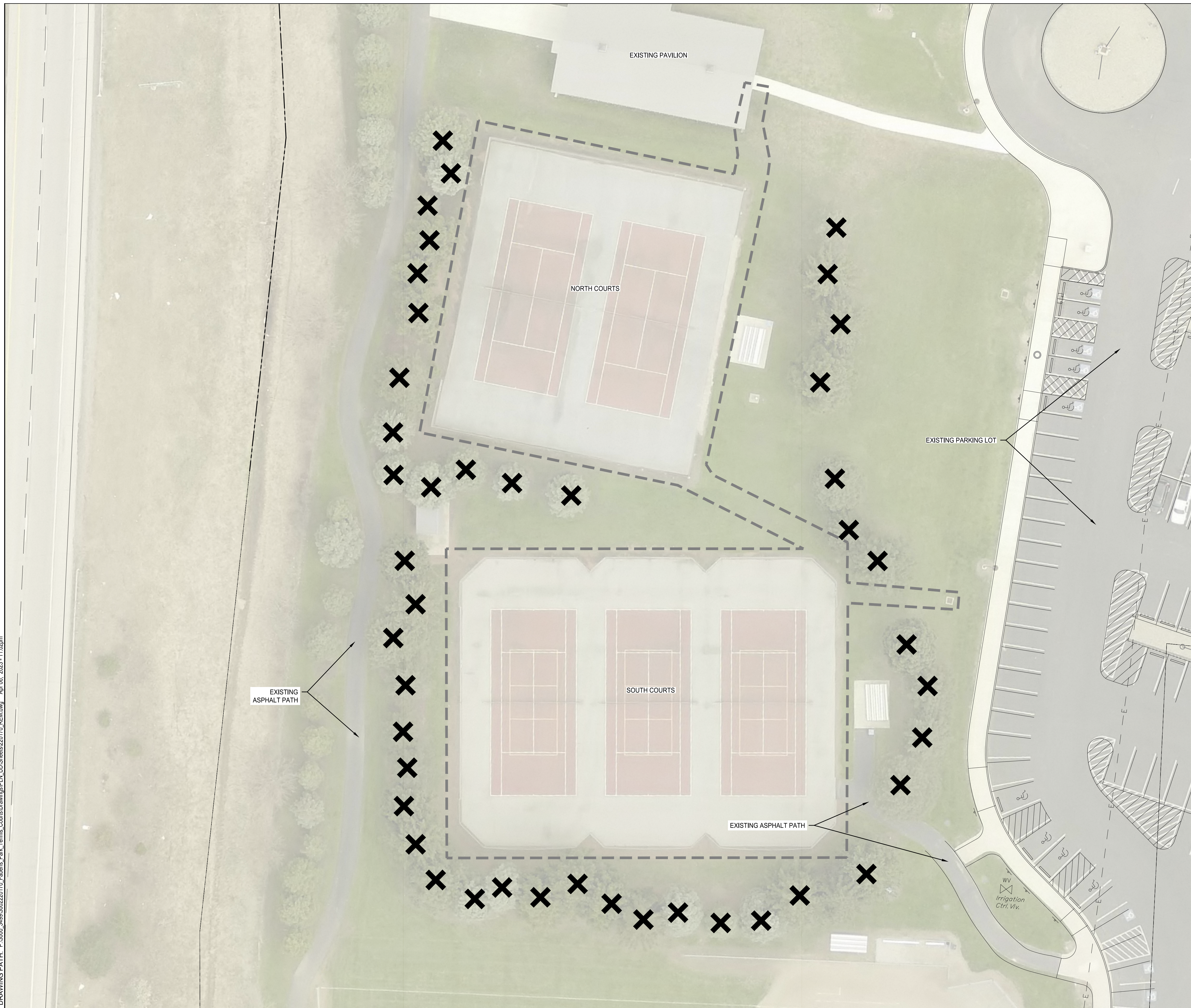
NO.	REVISIONS

DATE: 04/10/2023
 PROJ NUMBER: 300220170
 PROJ MGR: JH
 CADD: CB
 COUNTY: ERIE
 MUNICIPALITY: CITY OF HURON
CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
REMOVAL PLAN - SOUTH COURTS

SHEET: **C-102**

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LEGEND:

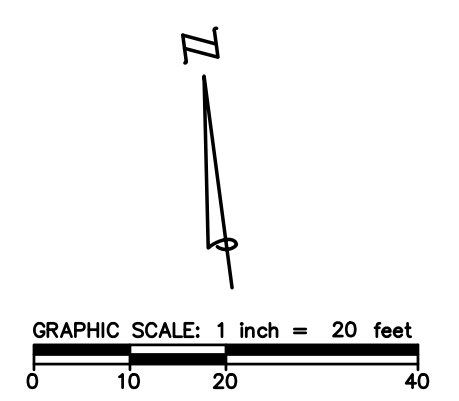
- ALTERNATE BID NO. 02 - ITEM 201 - TREE REMOVAL
- LIMITS OF WORK (BASE BID)

NOTES:

1. TREE REMOVAL TO INCLUDE STUMP GRINDING (SCALPING) AND RENOVATING DISTURBED AREA WITH REPAIR SEEDING AND MULCHING.
2. ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIALS, COORDINATION, ETC., FOR ALL ASPECTS OF WORK DESCRIBED IN THE ABOVE NOTES AND ASSOCIATED REQUIREMENTS, SHALL BE INCLUDED IN THE PROJECT.

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DATE 04/10/2023	PROJ NUMBER 302220170	PROJ INGR JH	CADD CB	COUNTY ERIE	MUNICIPALITY CITY OF HURON	<p>CITY OF HURON FABENS PARK TENNIS COURT RENOVATIONS ALT. NO. 02 - TREE REMOVAL PLAN</p>
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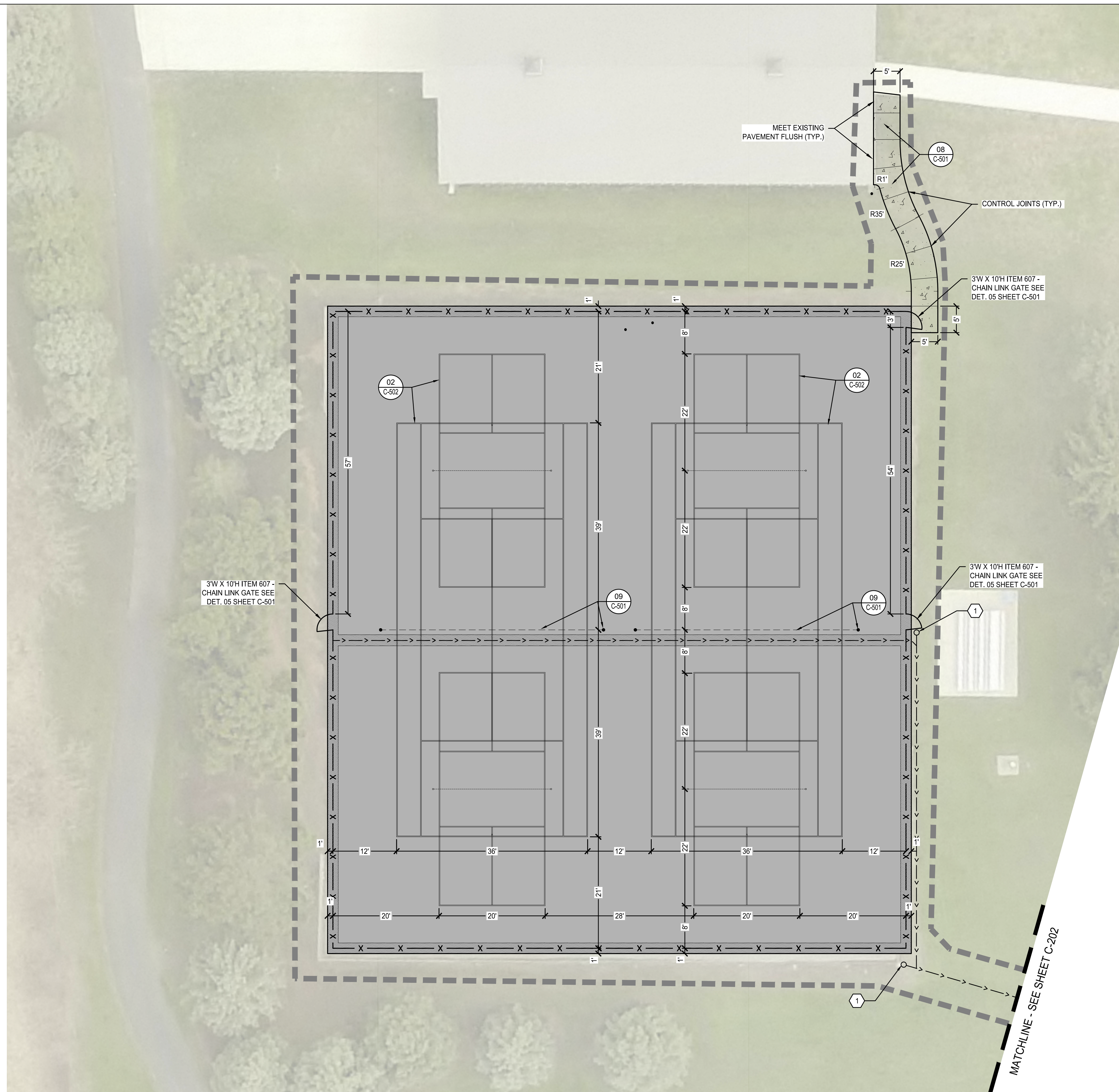


*****UTILITIES - ATTENTION BIDDERS/CONTRACTORS*****

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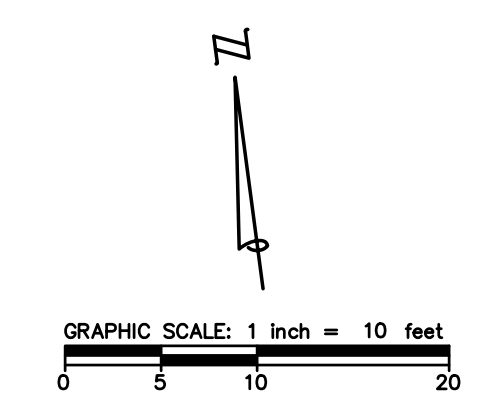
- ITEM 441 - ASPHALT SURFACE COURSE - SEE DET 04 SHEET C-501
- ITEM 253 - PAVEMENT REPAIR TYPE 1 - SEE DET 02 SHEET C-501
- ITEM 608 - 4 INCH CONCRETE WALK - SEE DET. 08 SHEET C-501
- ITEM 607 - CHAIN LINK FENCE 10' - SEE DET 06 SHEET C-501
- ITEM 605 - 4 INCH SHALLOW PIPE UNDERDRAIN WITH FABRIC SEE DET 01 - SHEET C-501
- ITEM 605 - UNDERDRAIN MISC.: PVC CLEANOUT
- LIMIT OF WORK

NOTES:

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3. DRAWING WILL BE AVAILABLE TO CONTRACTOR IN CAD FORMAT. FOR FULL LAYOUT PURPOSES, GENERAL DIMENSIONS AND KEY COORDINATES ARE SHOWN ON DRAWING.
4. MEET ALL EXISTING GRADES FLUSH.
5. ALL EMBANKMENTS UNDER PAVEMENTS AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER ODOT ITEM #203, AND AS NOTED IN THE PROJECT GEOTECHNICAL REPORT.
6. ALL LAWN AREAS TO MEET PAVEMENT EDGES FLUSH, UNLESS NOTED OTHERWISE ON THE PLAN.


ITEM 652 - REPAIR SEEDING AND MULCHING

1. WORK SHALL INCLUDE SEEDING AND MULCHING OF DISTURBED LAWN AREAS.
2. PROVIDE SEED OF GRASS SPECIES AS LISTED BELOW, WITH NOT LESS THAN 85% GERMINATION, NOT LESS THAN 95% PURE SEED, AND NOT MORE THAN 0.5% WEED SEED. PROPORTIONED MIX BY WEIGHT AS FOLLOWS:
 - 70-80% TURF TYPE TALL FESCUE (MINIMUM OF 4 CULTIVARS)
 - 20-30% KENTUCKY BLUEGRASS (PAO PRATENSIS)
3. SEED SOWING RATE: 5-8 LB/1,000 SF.
4. HYDROSEEDING: MIX SPECIFIED SEED, STARTER FERTILIZER, AND FIBER MULCH IN WATER, USING EQUIPMENT DESIGN FOR HYDRO SEED APPLICATION. CONTINUE MIXING UNTIL UNIFORMLY BLENDED INTO HOMOGENEOUS SLURRY SUITABLE FOR HYDRAULIC APPLICATION. MIX SLURRY WITH FIBER-MULCH MANUFACTURER'S RECOMMENDED TACKIFIER. SPRAY APPLY SLURRY UNIFORMLY TO ALL AREAS TO BE SEEDDED IN A ONE STEP PROCESS. APPLY SLURRY AT A RATE SO THAT MULCH COMPONENT IS DEPOSITED AT NOT LESS THAN 1500 LB/ACRE DRY WEIGHT AND SEED IS DEPOSITED AT NOT LESS THAN SPECIFIED SEED-SOWING RATE.
5. AT TIME OF SEEDING, PROVIDE LAWN STARTER FERTILIZER CONTAINING 18% NITROGEN, 31% PHOSPHORIC ACID, AND 6% POTASH BY WEIGHT (18-24-6), OR SIMILAR APPROVED COMPOSITION. APPLY AT MANUFACTURER'S RECOMMENDED RATE.
6. 30 DAYS AFTER SEEDING PROVIDE A POST 30 DAY FERTILIZER CONTAINING 31% NITROGEN, 3% PHOSPHORIC ACID, AND 10% POTASH BY WEIGHT (31-3-10), OR SIMILAR APPROVED COMPOSITION. APPLY AT MANUFACTURER'S RECOMMENDED RATE.



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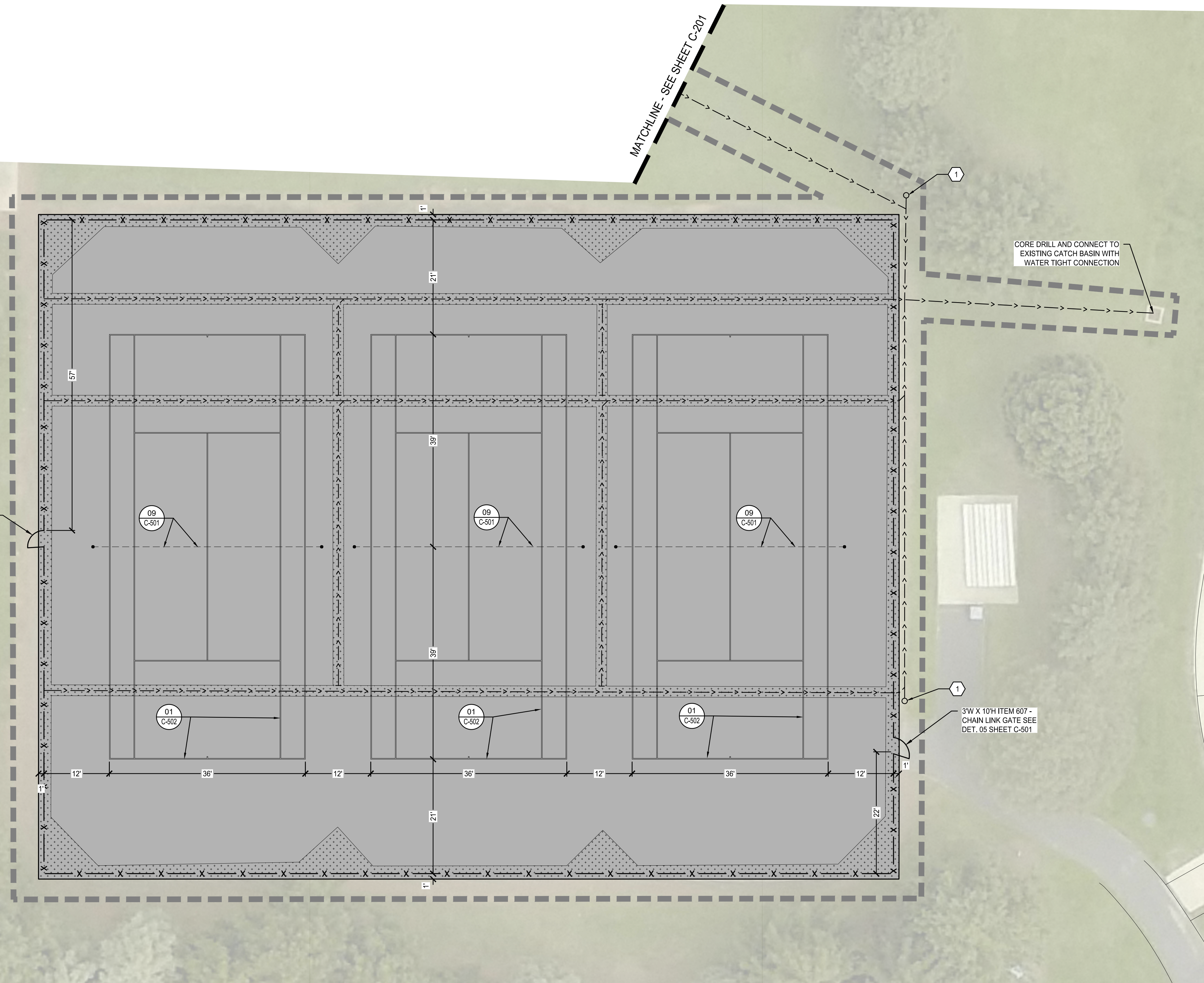
MUNICIPALITY: CITY OF HURON
COUNTY: ERIE
CADD: CB
PROJ. MGR: JH
PROJ. NUMBER: 300220170
DATE: 04/10/2023

**CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
LAYOUT PLAN - NORTH COURTS**

SHEET: **C-201**

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LEGEND:

- ITEM 441 - ASPHALT SURFACE COURSE - SEE DET 04 SHEET C-501
- ITEM 253 - PAVEMENT REPAIR TYPE 2 - SEE DET 03 SHEET C-501
- ITEM 607 - CHAIN LINK FENCE 10' - SEE DET 06 SHEET C-501
- ITEM 605 - 4 INCH SHALLOW PIPE UNDERDRAIN WITH FABRIC SEE DET 01 - SHEET C-501
- ITEM 605 - DRAINAGE MISC.: PVC CLEANOUT
- LIMIT OF WORK

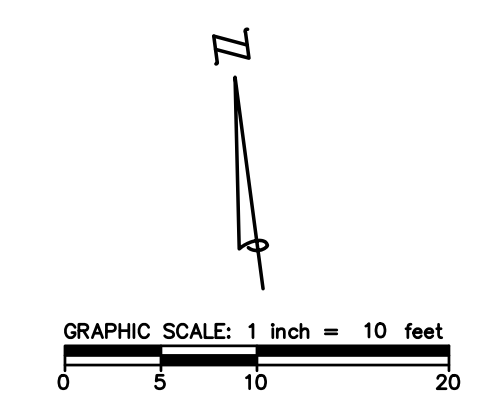
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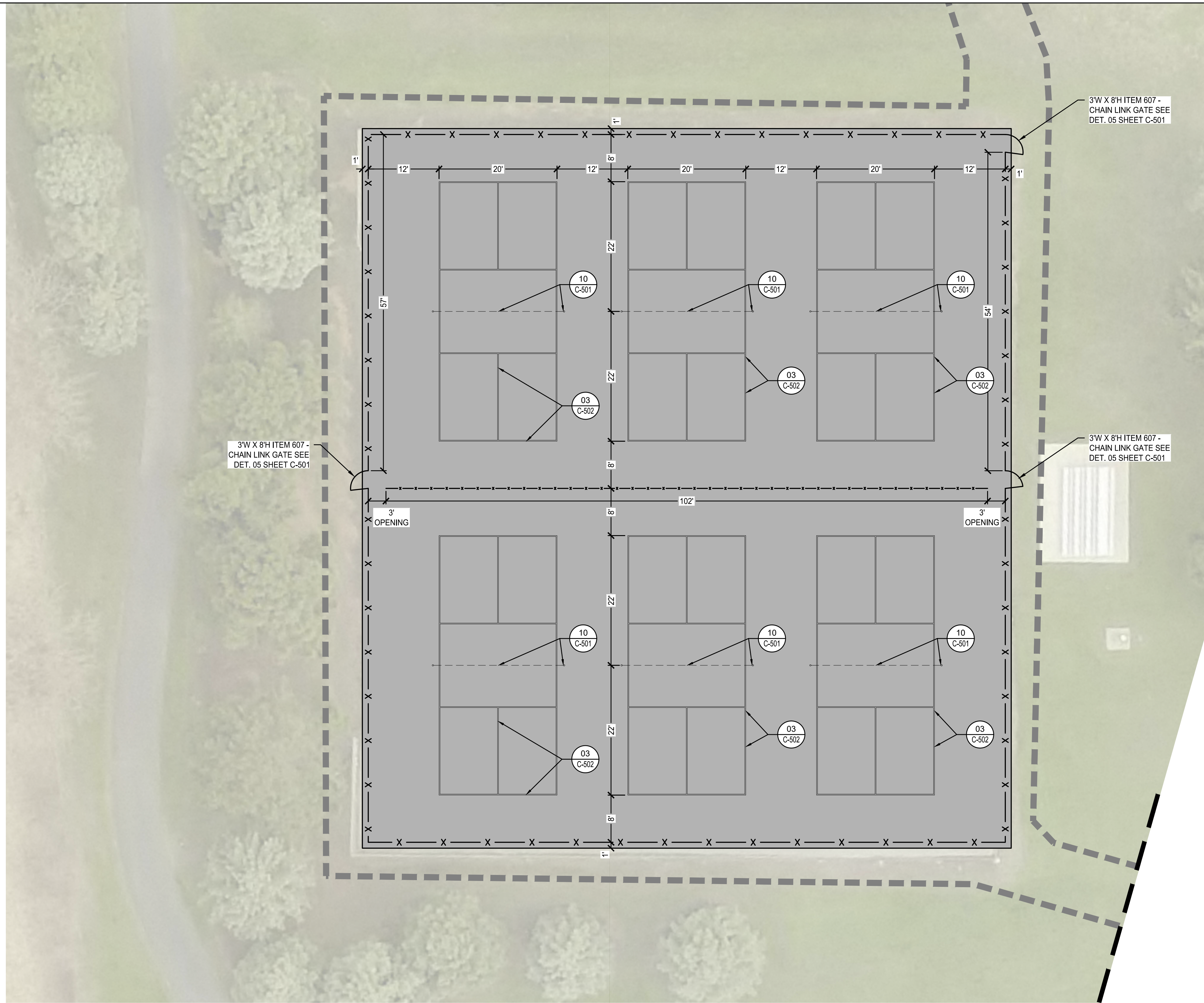
MUNICIPALITY: CITY OF HURON
 COUNTY: ERIE
 CAD: CB
 PROJ. MGR: JH
 PROJ. NUMBER: 300220170
 DATE: 04/10/2023

CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
LAYOUT PLAN - SOUTH COURTS

C-202

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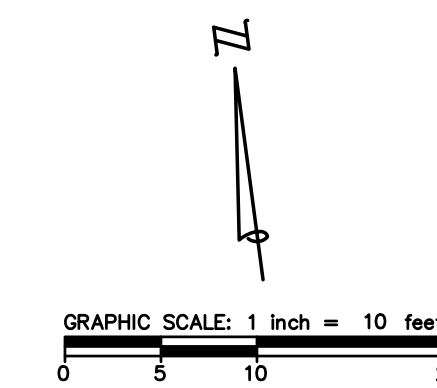


LEGEND:

- x — 8'H ITEM 607 - CHAIN LINK FENCE - SEE DET 06 SHEET C-501
- x — x — 4'H ITEM 607 - CHAIN LINK FENCE - SEE DET 06 SHEET C-501
- — — — — LIMIT OF WORK

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6. ALL LAWN AREAS TO MEET PAVEMENT EDGES FLUSH, UNLESS NOTED OTHERWISE ON THE PLAN.



**Know what's below.
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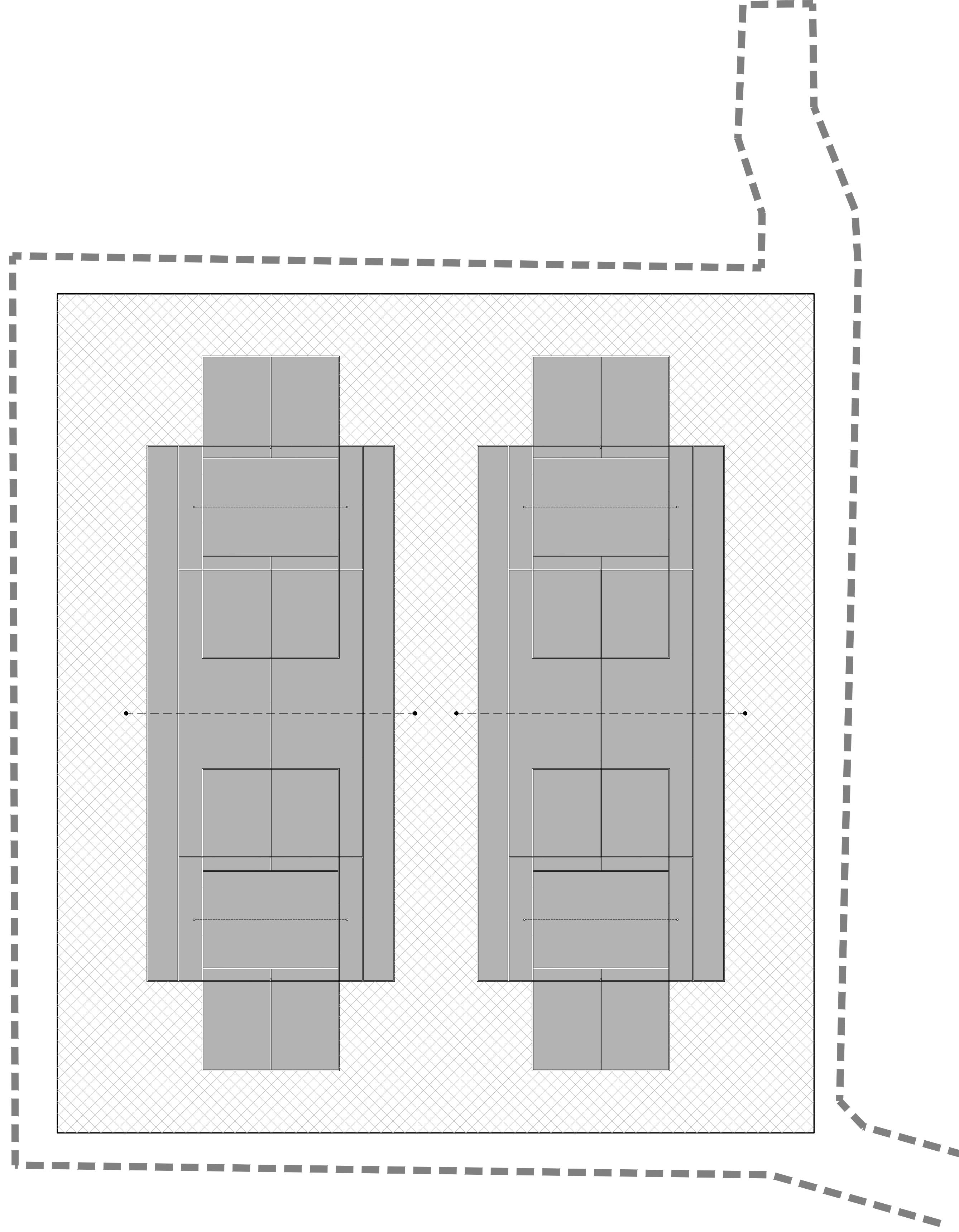
ISSUE FOR BIDDING AND CONSTRUCTION	
REVISIONS	

DATE	PROJ NUMBER	PROJ MGR	CADD	COUNTY	MUNICIPALITY
04/10/2023	300220170	JH	CB	ERIE	CITY OF HURON
CITY OF HURON					
FABENS PARK TENNIS COURT RENOVATIONS					
ALT. NO. 01 - LAYOUT PLAN					



SHEET **C-203**

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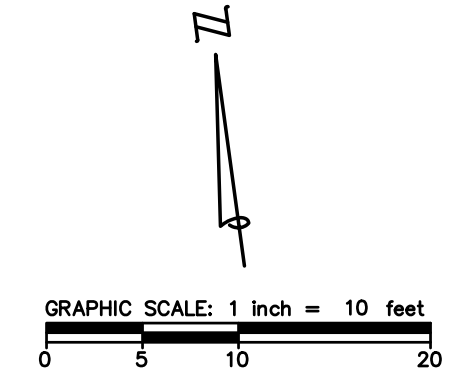
-  COLOR #1: GRASS GREEN
-  COLOR #2: STADIUM BLUE

NOTES:

1. THIS SHEET IS FOR COURT SURFACING COLOR AND GRAPHICS ONLY. SEE DETAIL SHEET C-502 FOR COURT STRIPING DETAIL.



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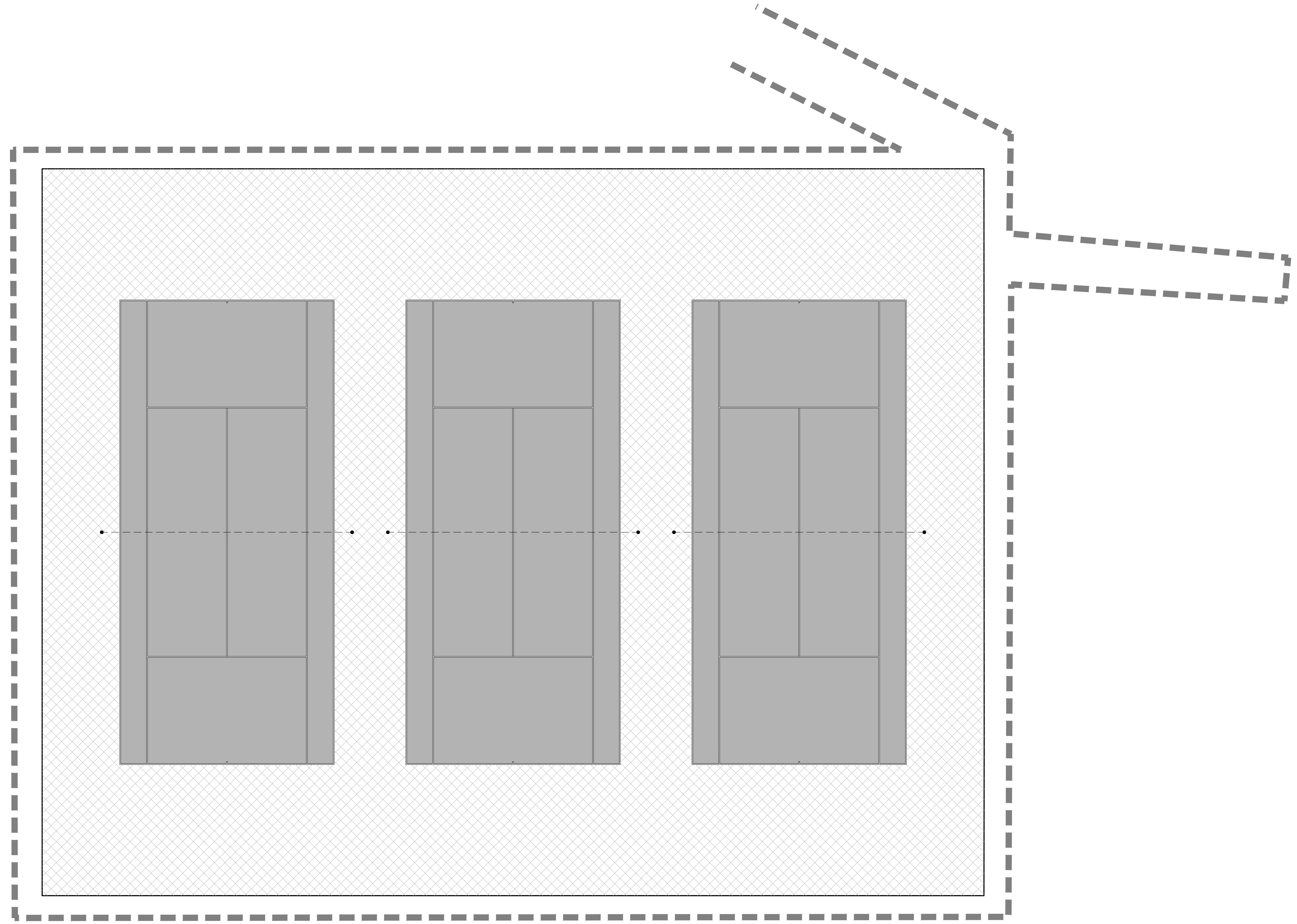
DATE: 04/10/2023
 PROJ NUMBER: 300220170
 PROJ MGR: JH
 CADD: CB
 COUNTY: ERIE
 MUNICIPALITY: CITY OF HURON

CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
COLOR SURFACING PLAN - NORTH COURTS



SHEET **C-204**

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LEGEND:

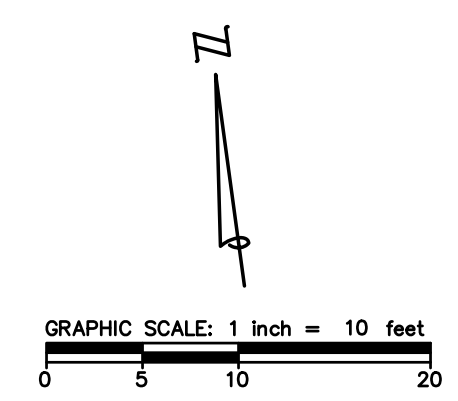
-  COLOR #1: GRASS GREEN
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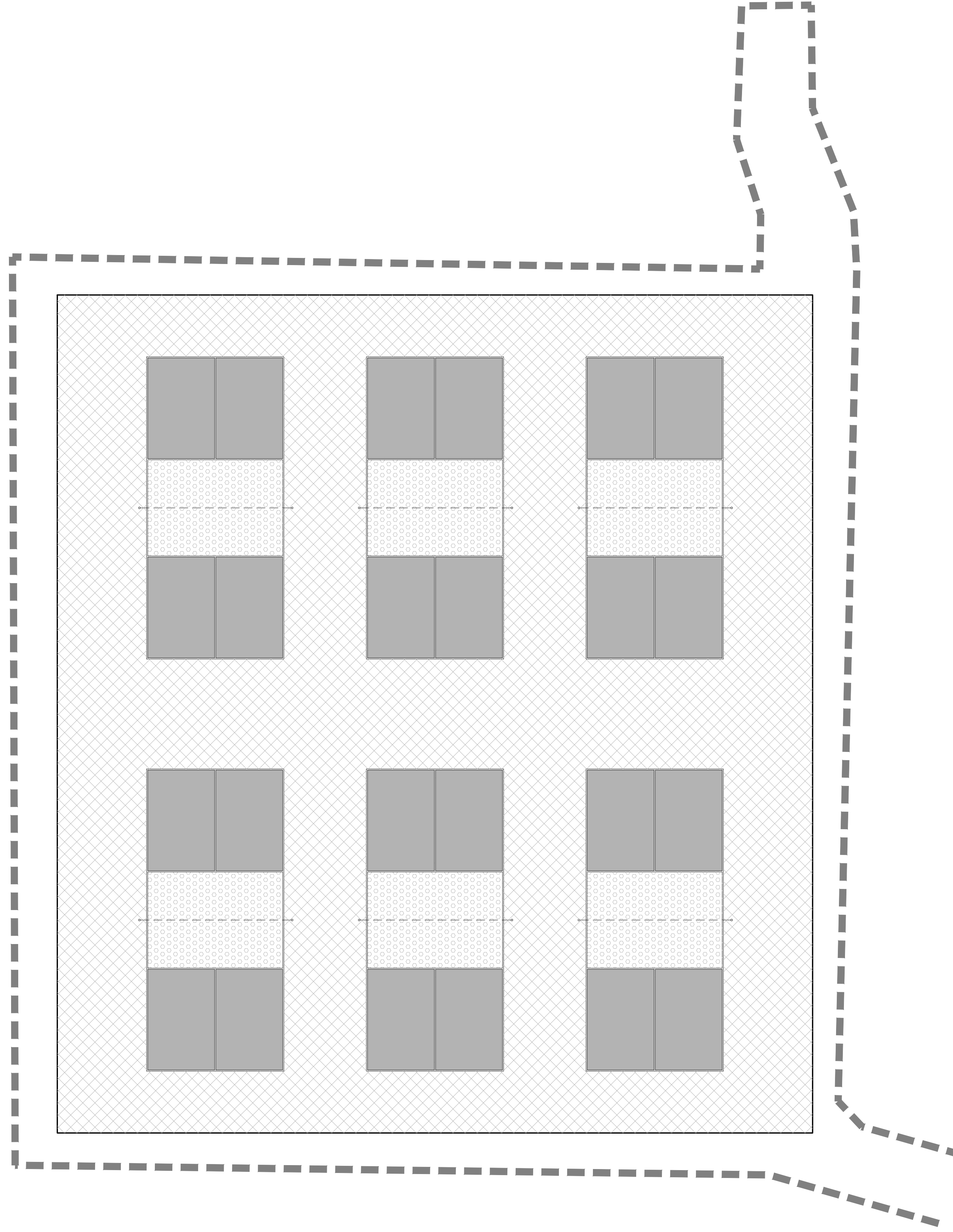
DATE 04/10/2023
 PROJ NUMBER 300220170
 PROJ MGR JH
 CADD CB
 COUNTY ERIE
 MUNICIPALITY CITY OF HURON

CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
COLOR SURFACING PLAN - SOUTH COURTS

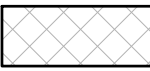


SHEET **C-205**

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DRAWING PATH: P:\3000_3498\302220170_Fabens_Park_Tennis_Courts\Drawings\PLN_LUD\Bases\20170_STE_COLOR.dwg Apr 06, 2023 - 11:07:00am



LEGEND:

-  COLOR #1: GRASS GREEN
-  COLOR #2: STADIUM BLUE
-  COLOR #3: BLUE

NOTES:

1. THIS SHEET IS FOR COURT SURFACING COLOR AND GRAPHICS ONLY. SEE DETAIL SHEET C-502 FOR COURT STRIPING DETAIL.



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Cleveland, OH 44103
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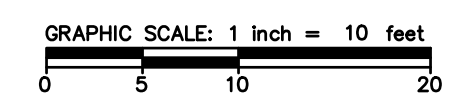
ISSUE FOR BIDDING AND CONSTRUCTION

REVISIONS

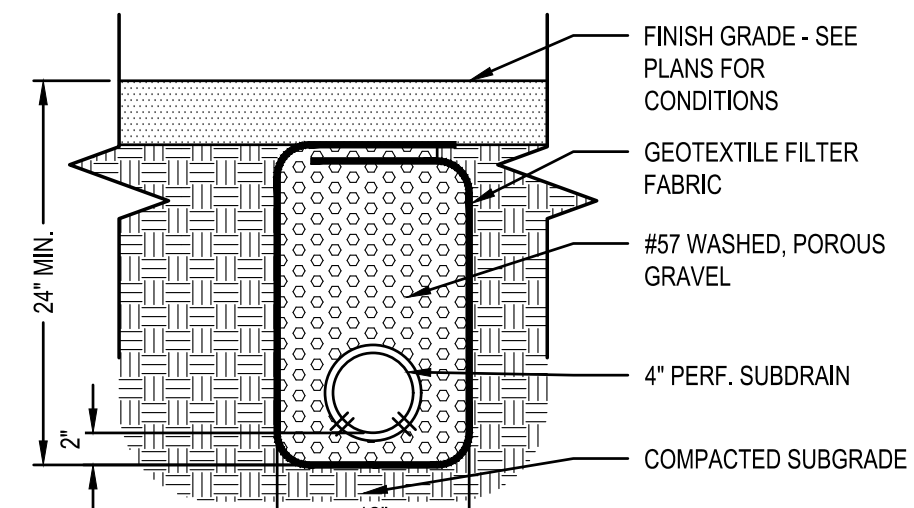
DATE	PROJ NUMBER	PROJ MGR	CADD	COUNTY	MUNICIPALITY
04/10/2023	302220170	JH	CB	ERIE	CITY OF HURON

CITY OF HURON
FABENS PARK TENNIS COURT RENOVATIONS
ALT. NO. 01 - COLOR SURFACING PLAN - NORTH
COURTS

C-206

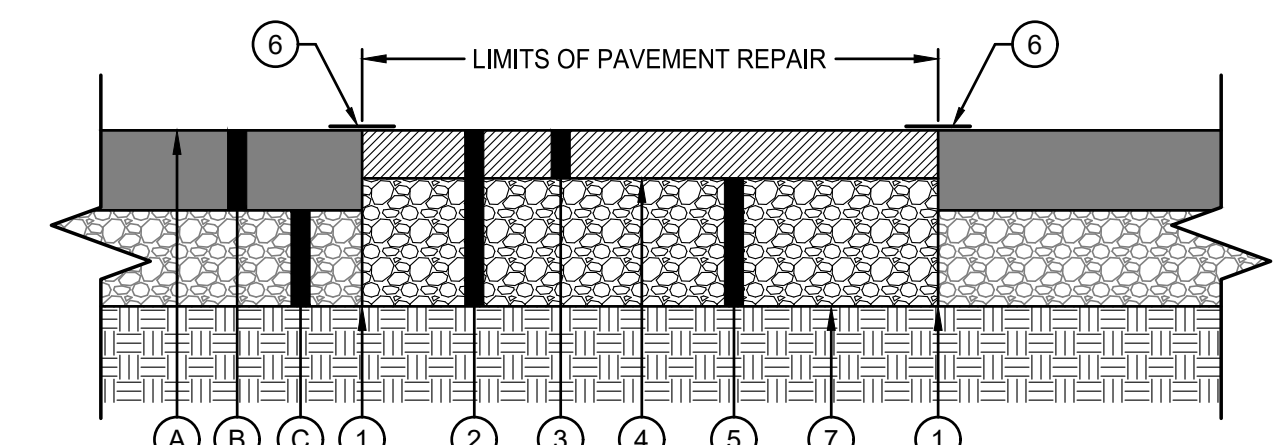


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- NOTES:**
1. PROVIDE A MINIMUM 0.5% SLOPE ON UNDERDRAIN WHERE SLOPE IS GOING AGAINST FINISH GRADE SLOPE.
 2. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM PER ODOT CMS 605, AND AS SHOWN ON THIS DETAIL.

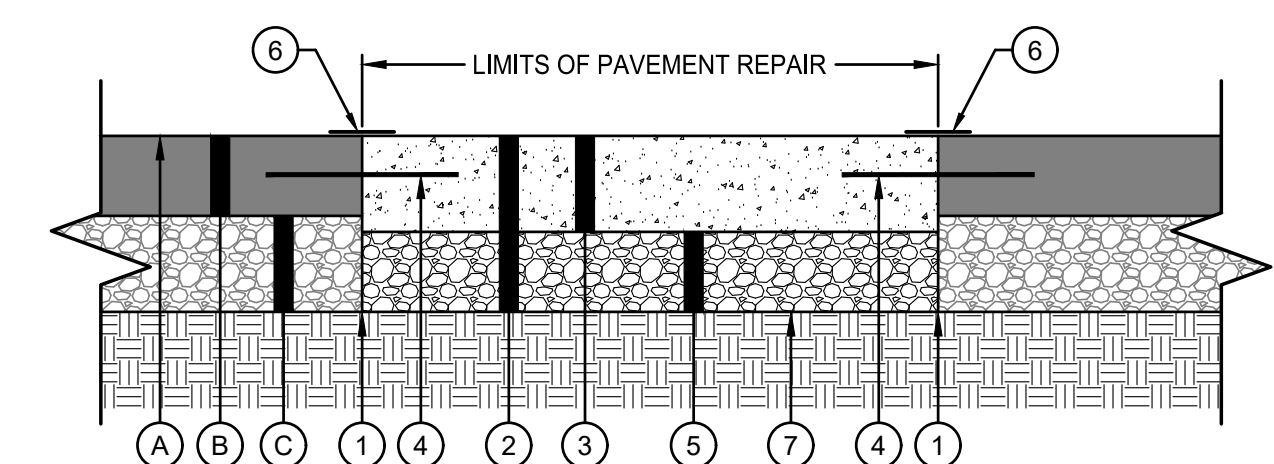
01 ITEM 605 - 4 INCH SHALLOW PIPE UNDERDRAIN WITH FABRIC
NOT TO SCALE



- NOTES:**
- A PLANED ASPHALT SURFACE
 - B REMAINDER OF EXISTING PAVEMENT AFTER PLANING
 - C EXISTING SUBBASE
 - 1 SAWCUT PERIMETER - PROVIDE CLEAN, STRAIGHT EDGE
 - 2 ITEM 202 - PAVEMENT REMOVED
 - 3 ITEM 441 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG 64-22. AMOUNT OF RECYCLE AGGREGATE PRODUCT (RAP) SHALL BE LIMITED TO 20% MAX.
 - 4 ITEM 407 - TACK COAT (APPLY ON ALL EXPOSED ASPHALT SURFACES)
 - 5 ITEM 304 - MINIMUM 6" AGGREGATE BASE (GRAVEL ONLY, NO SLAG OR RECYCLED CONCRETE PERMITTED)
 - 6 ITEM 423 - CRACK SEALING, TYPE 3 (ENTIRE PERIMETER JOINT)
 - 7 RESTORE SUBGRADE AND RE-COMPACT TO A 6" MIN. DEPTH PER ODOT ITEM 204 - COMPACTED SUBGRADE

- NOTES:**
1. THE UNIT PRICE BID FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM PER THE SPECIFICATION, AND AS SHOWN ON THE DETAIL. ITEMS SHOWN ON DETAIL SHALL BE INCIDENTAL TO ITEM 253 PAVEMENT REPAIR, TYPE 1, AS PER PLAN.
 2. ALL LOCATIONS TO BE REPAIRED SHALL BE DESIGNATED AT THE DIRECTION OF THE ENGINEER.

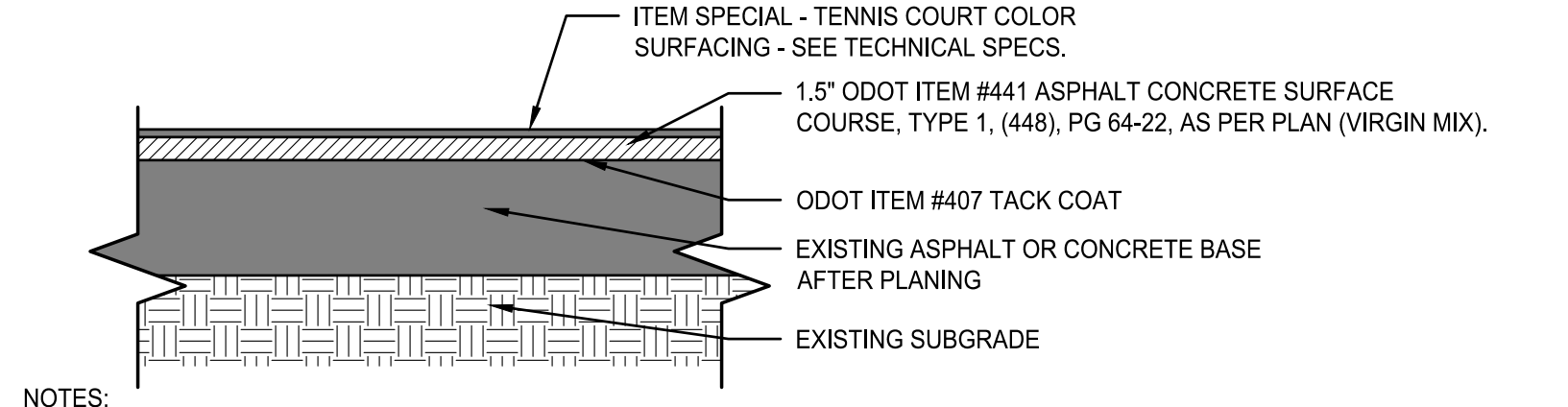
02 ITEM 253 - PAVEMENT REPAIR TYPE 1
NOT TO SCALE



- NOTES:**
- A PLANED SURFACE
 - B EXISTING CONCRETE PAVEMENT AFTER PLANING
 - C EXISTING SUBBASE
 - 1 SAWCUT PERIMETER - PROVIDE CLEAN, STRAIGHT EDGE
 - 2 ITEM 202 - PAVEMENT REMOVED
 - 3 ITEM 452 - 6" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
 - 4 12" #4 EPOXY COATED DOWEL, PLACED 36" ON CENTER, 2 INCHES CLEAR
 - 5 ITEM 304 - MINIMUM 4" AGGREGATE BASE (GRAVEL ONLY, NO SLAG OR RECYCLED CONCRETE PERMITTED)
 - 6 ITEM 423 - CRACK SEALING, TYPE 3 (ENTIRE PERIMETER JOINT)
 - 7 RESTORE SUBGRADE AND RE-COMPACT TO A 6" MIN. DEPTH PER ODOT ITEM 204 - COMPACTED SUBGRADE

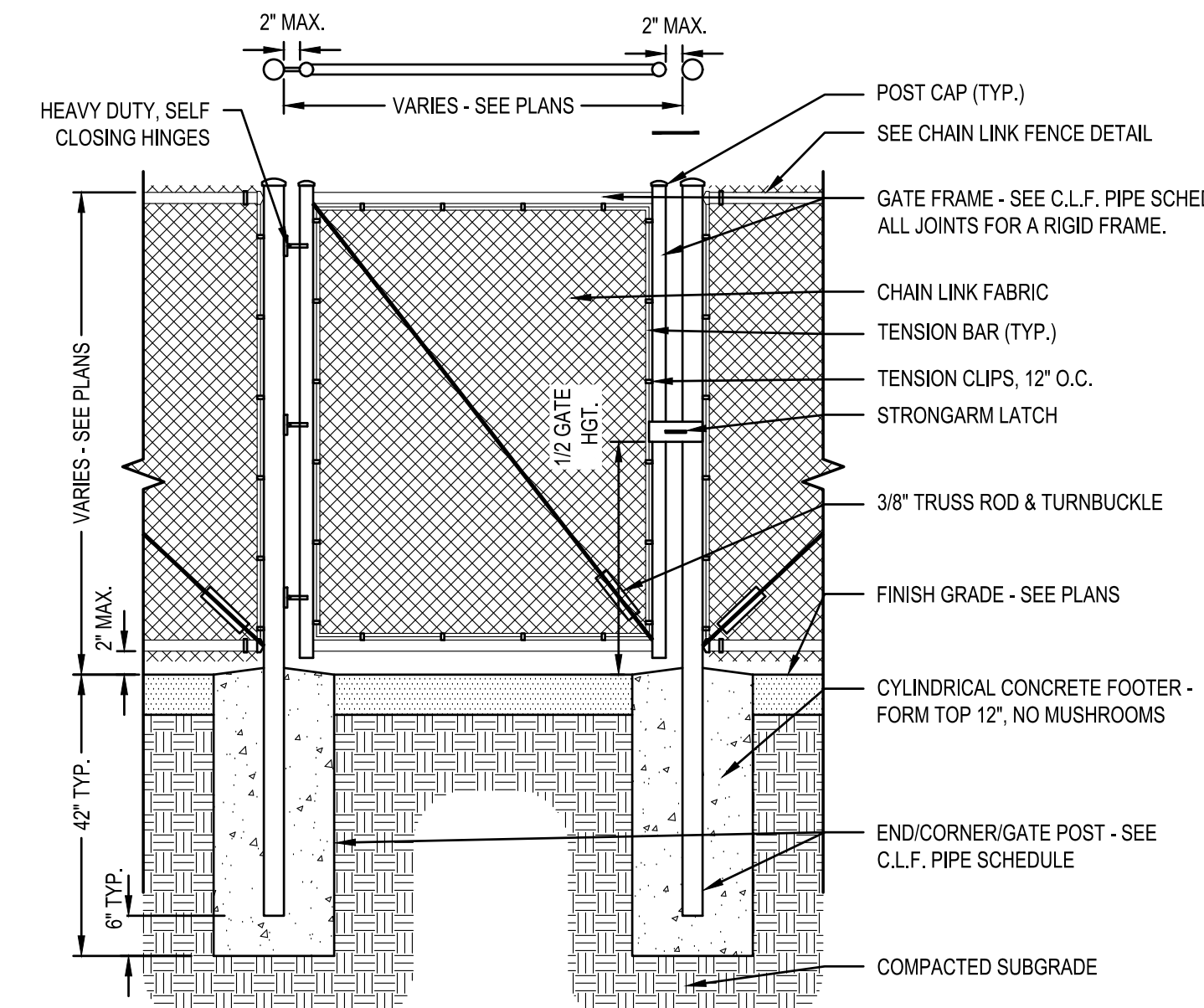
- NOTES:**
1. THE UNIT PRICE BID FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM PER THE SPECIFICATION, AND AS SHOWN ON THE DETAIL. ITEMS SHOWN ON DETAIL SHALL BE INCIDENTAL TO ITEM 253 PAVEMENT REPAIR, TYPE 2, AS PER PLAN.
 2. ALL LOCATIONS TO BE REPAIRED SHALL BE DESIGNATED AT THE DIRECTION OF THE ENGINEER.

03 ITEM 253 - PAVEMENT REPAIR TYPE 2
NOT TO SCALE



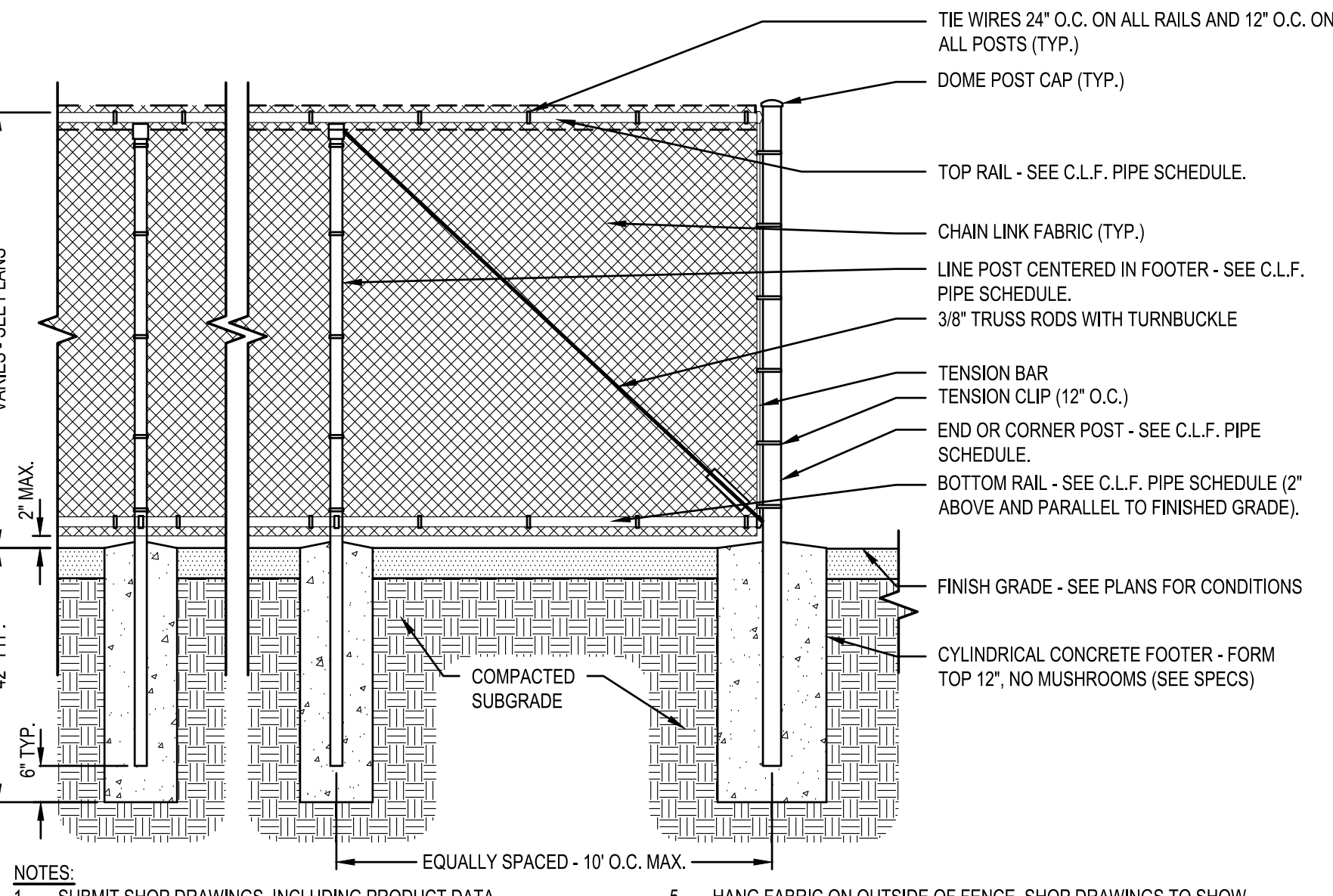
- NOTES:**
1. ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22, AS PER PLAN SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. COARSE AGGREGATES FOR ASPHALT PAVING SHALL BE LIMITED TO CRUSHED ROCK OR GRAVEL FREE OF CLAY SILT, DELETERIOUS MATERIALS, RECYCLED AGGREGATE PRODUCT, SLAG, STEEL, OR RECYCLED CONCRETE.
 - B. FINE AGGREGATES FOR ASPHALT PAVING SHALL BE LIMITED TO CLEAN NATURAL SAND, OR MANUFACTURED SAND FREE OF CLAY, SILT, OR OTHER DELETERIOUS MATERIALS.
 - C. FINISHED ASPHALT PAVEMENT SHALL MEET AMERICAN SPORTS BUILDERS ASSOCIATE (ASBA) ASPHALT GUIDELINES.

04 ITEM 441 - ASPHALT SURFACE COURSE
NOT TO SCALE



- NOTES:**
1. SUBMIT SHOP DRAWINGS, INCLUDING PRODUCT DATA.
 2. REFER TO LAYOUT PLAN FOR FENCE LOCATIONS AND HEIGHTS.
 3. TOP AND BOTTOM OF FABRIC TO BE KNUCKLED.
 4. ALL FENCE COMPONENTS TO BE VINYL COATED, COLOR: BLACK.
 5. HANG FABRIC ON OUTSIDE OF FENCE. SHOP DRAWINGS TO SHOW SIDE OF FENCE FABRIC WILL BE HUNG ON.
 6. ALL FENCE FABRIC TO HAVE 2" OPENINGS (TYP.).

05 ITEM 607 - CHAIN LINK GATE
NOT TO SCALE



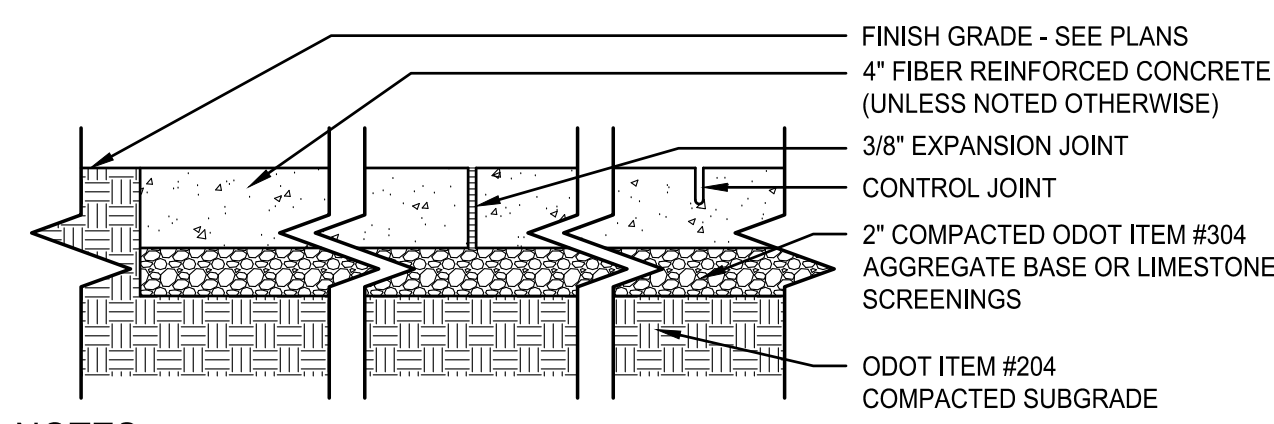
- NOTES:**
1. SUBMIT SHOP DRAWINGS, INCLUDING PRODUCT DATA.
 2. REFER TO LAYOUT PLAN FOR FENCE LOCATIONS AND HEIGHTS.
 3. TOP AND BOTTOM OF FABRIC TO BE KNUCKLED.
 4. ALL FENCE COMPONENTS TO BE VINYL COATED, COLOR: BLACK.
 5. HANG FABRIC ON OUTSIDE OF FENCE. SHOP DRAWINGS TO SHOW SIDE OF FENCE FABRIC WILL HUNG ON.
 6. ALL FENCE FABRIC TO HAVE 2" OPENINGS (TYP.).

06 ITEM 607 - CHAIN LINK FENCE
NOT TO SCALE

CHAIN LINK FENCE PIPE SCHEDULE					
HEIGHT	END / CORNER POST	SINGLE LEAF GATE POST	GATE FRAME	LINE POST	TOP, INTERMEDIATE, OR BOTTOM RAILS
4'-0"	2.375" O.D. (3.65 LBS/FT)	2.875" O.D. (5.79 LBS/FT)	1.900" O.D. (2.72 LBS/FT)	1.900" O.D. (2.72 LBS/FT)	1.660" O.D. (2.27 LBS/FT)
8'-0" & 10'-0"	3.500" O.D. (7.58 LBS/FT)	3.500" O.D. (7.58 LBS/FT)	1.900" O.D. (2.72 LBS/FT)	2.375" O.D. (3.65 LBS/FT)	1.660" O.D. (2.27 LBS/FT)

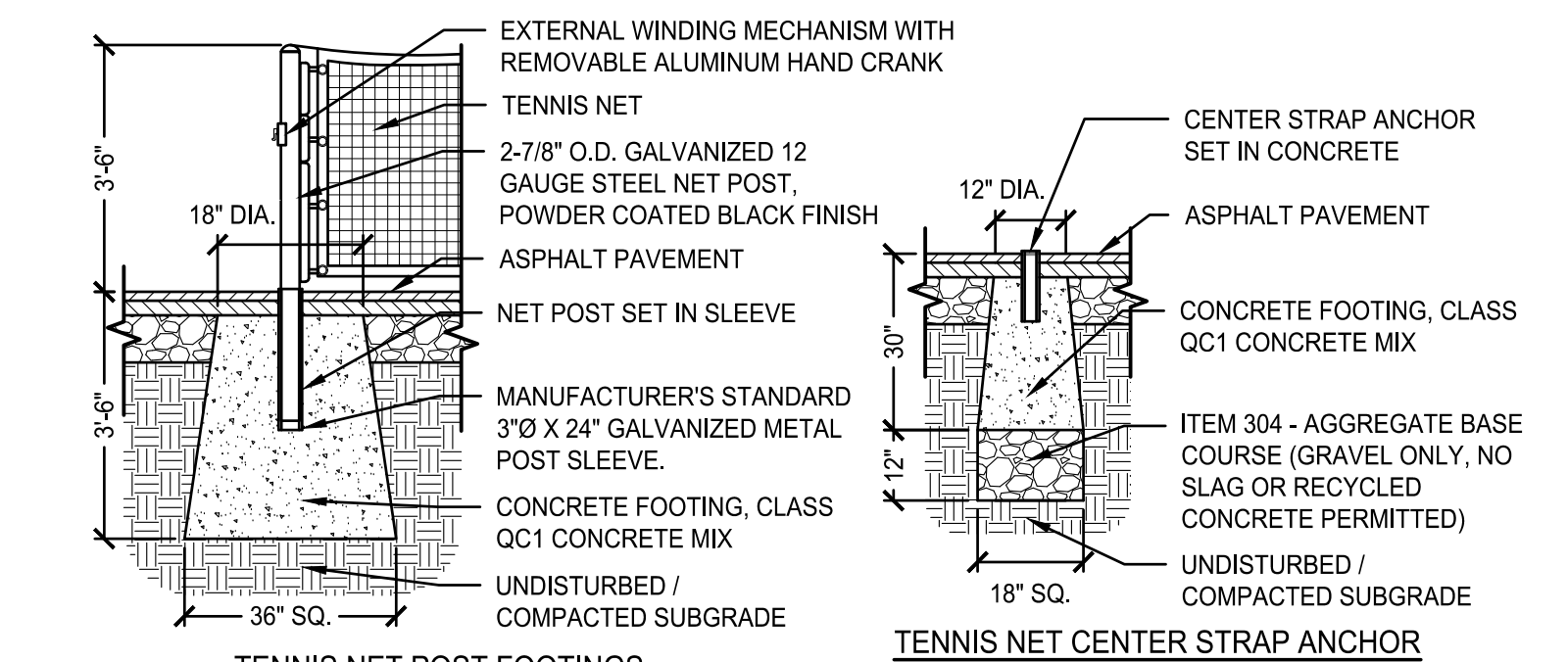
CHAIN LINK FENCE FOUNDATION SCHEDULE			
HEIGHT	END / CORNER POST	SINGLE LEAF GATE POST	LINE POST
4'-0"	16"Ø	16"Ø	12"Ø
8'-0" & 10'-0"	18"Ø	18"Ø	16"Ø

07 ITEM 607 - CHAIN LINK FENCE PIPE AND FOUNDATION SCHEDULES
NOT TO SCALE



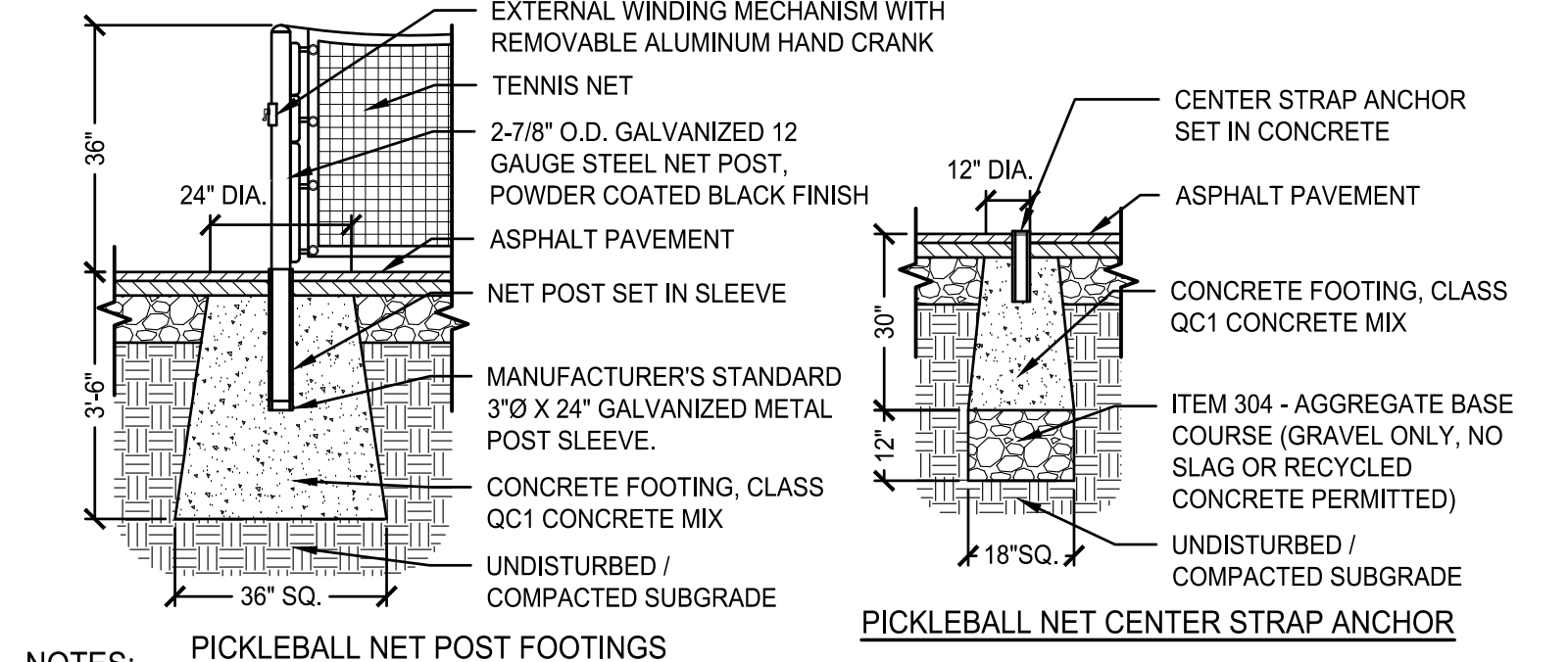
- NOTES:**
1. ALL SCORING SHALL BE 1/4 DEPTH OF CONCRETE (TOOLED OR SAWCUT).
 2. RUB OUT ALL SURFACE TOOL MARKS, SEE PLANS FOR FINISH TYPES.
 3. SEE LAYOUT PLANS FOR WIDTH OF PAVEMENT.
 4. CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM PER ODOT CMS 608, AND AS SHOWN ON THIS DETAIL.

08 ITEM 608 - 4 INCH CONCRETE WALK
NOT TO SCALE



- NOTES:**
1. PROVIDE EXTERNAL WIND TENNIS SYSTEM (NET & POSTS) AS MANUFACTURED BY SPORTSFIELD SPECIALTIES OR APPROVED EQUAL. SYSTEM SHALL INCLUDE: ALUMINUM HAND CRANK, GALVANIZED POST GROUND SLEEVES, POSTS, NET, NET STRAP, AND NET ANCHOR.
 2. SUBMIT SHOP DRAWINGS, AND PRODUCT DATA FOR REVIEW AND APPROVAL.
 3. ALL ITEMS SHOWN, INCLUDING ASPHALT PAVEMENT REPAIR, AS PER PLAN SHALL BE INCLUDED IN THE COST OF ITEM SPECIAL TENNIS COURT NET SYSTEM.

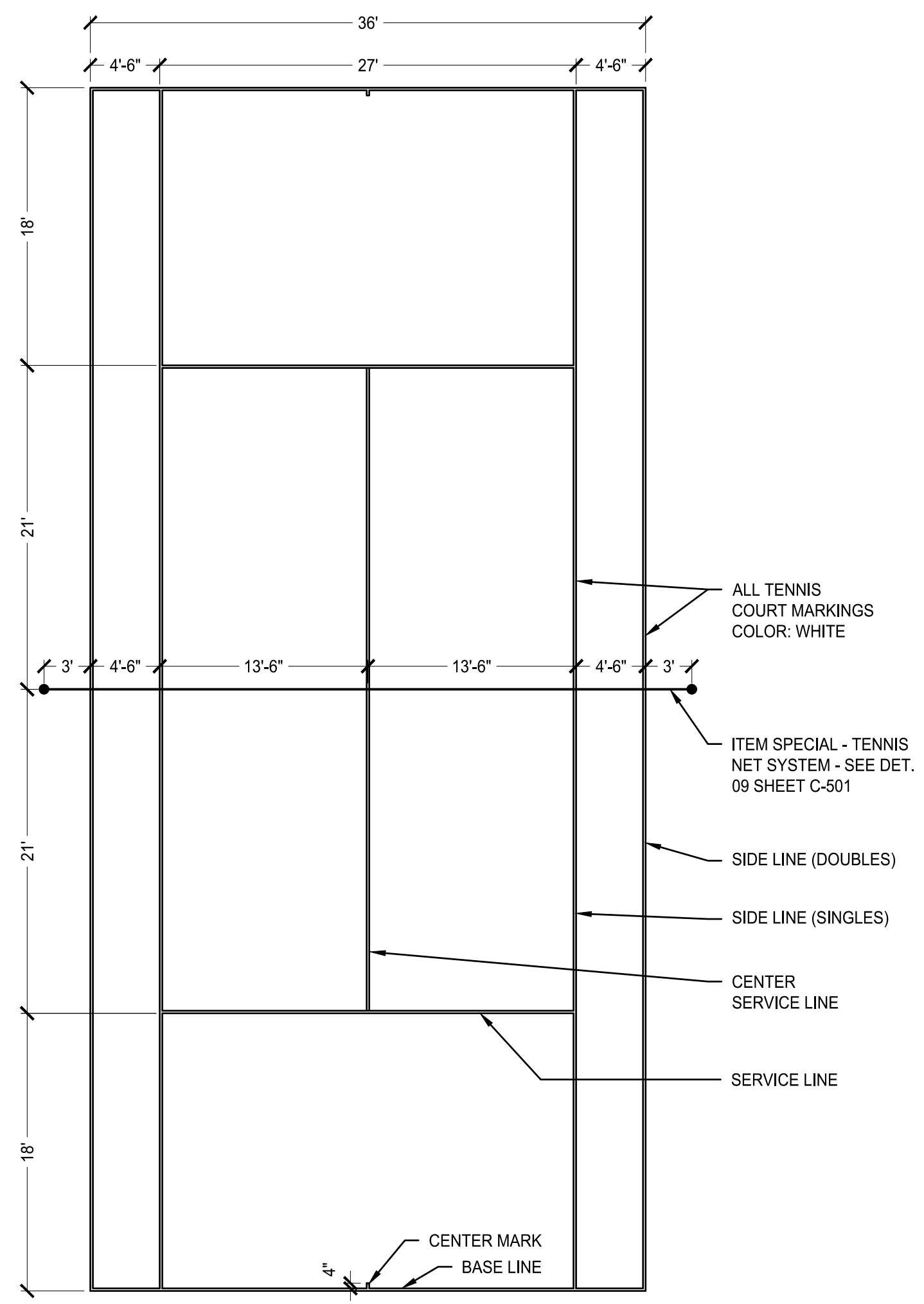
09 ITEM SPECIAL - TENNIS NET SYSTEM
NOT TO SCALE



- NOTES:**
1. PROVIDE EXTERNAL WIND TENNIS SYSTEM (NET & POSTS) AS MANUFACTURED BY "10-S TENNIS SUPPLY" OR APPROVED EQUAL. SYSTEM SHALL INCLUDE: ALUMINUM HAND CRANK, GALVANIZED POST GROUND SLEEVES, POSTS, NET, NET STRAP, AND NET ANCHOR.
 2. SUBMIT SHOP DRAWINGS, AND PRODUCT DATA FOR REVIEW AND APPROVAL.
 3. ALL ITEMS SHOWN SHALL BE INCLUDED IN THE COST OF ITEM SPECIAL - PICKLEBALL COURT NET SYSTEM.

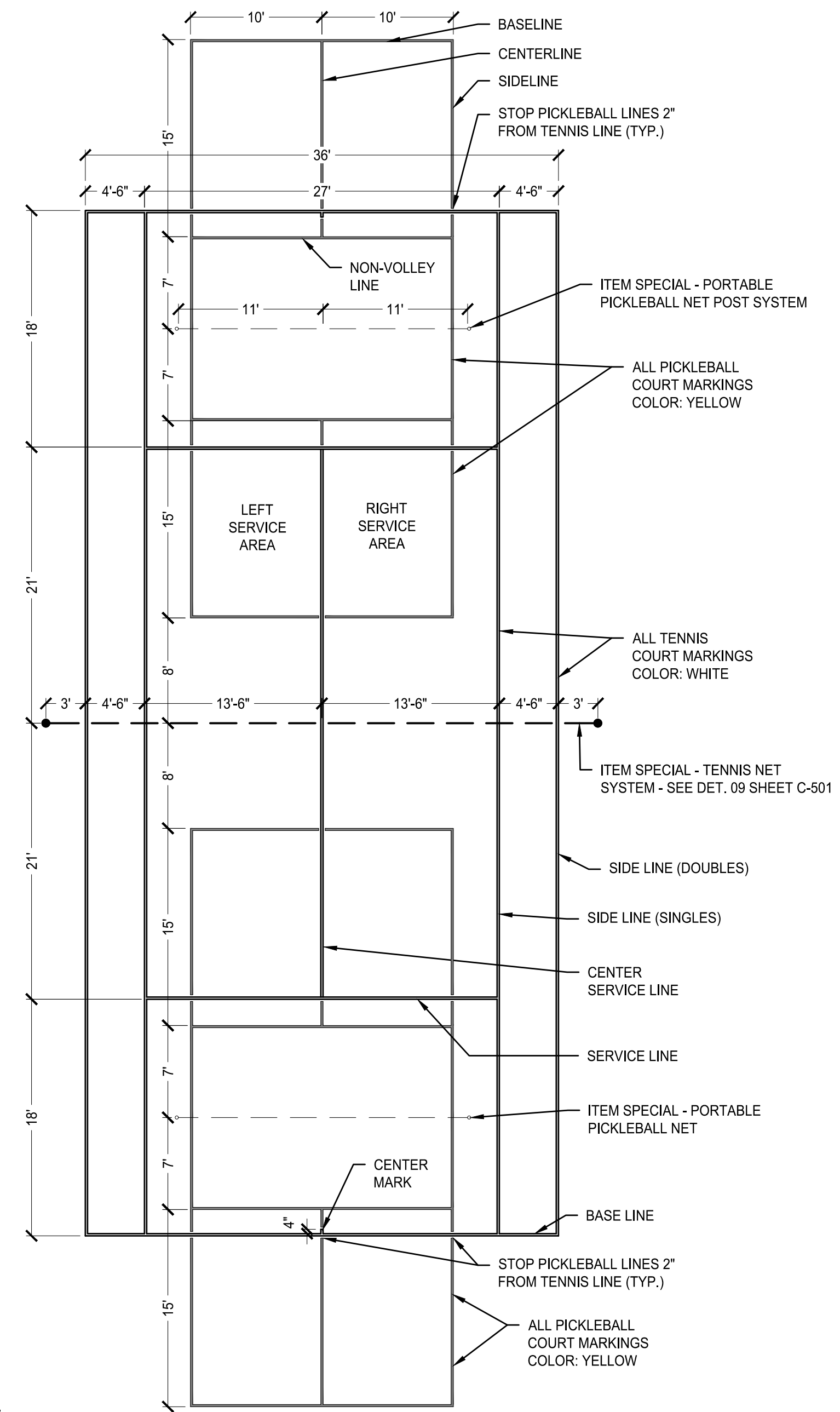
10 ALT. BID - ITEM SPECIAL - PICKLEBALL NET SYSTEM
NOT TO SCALE

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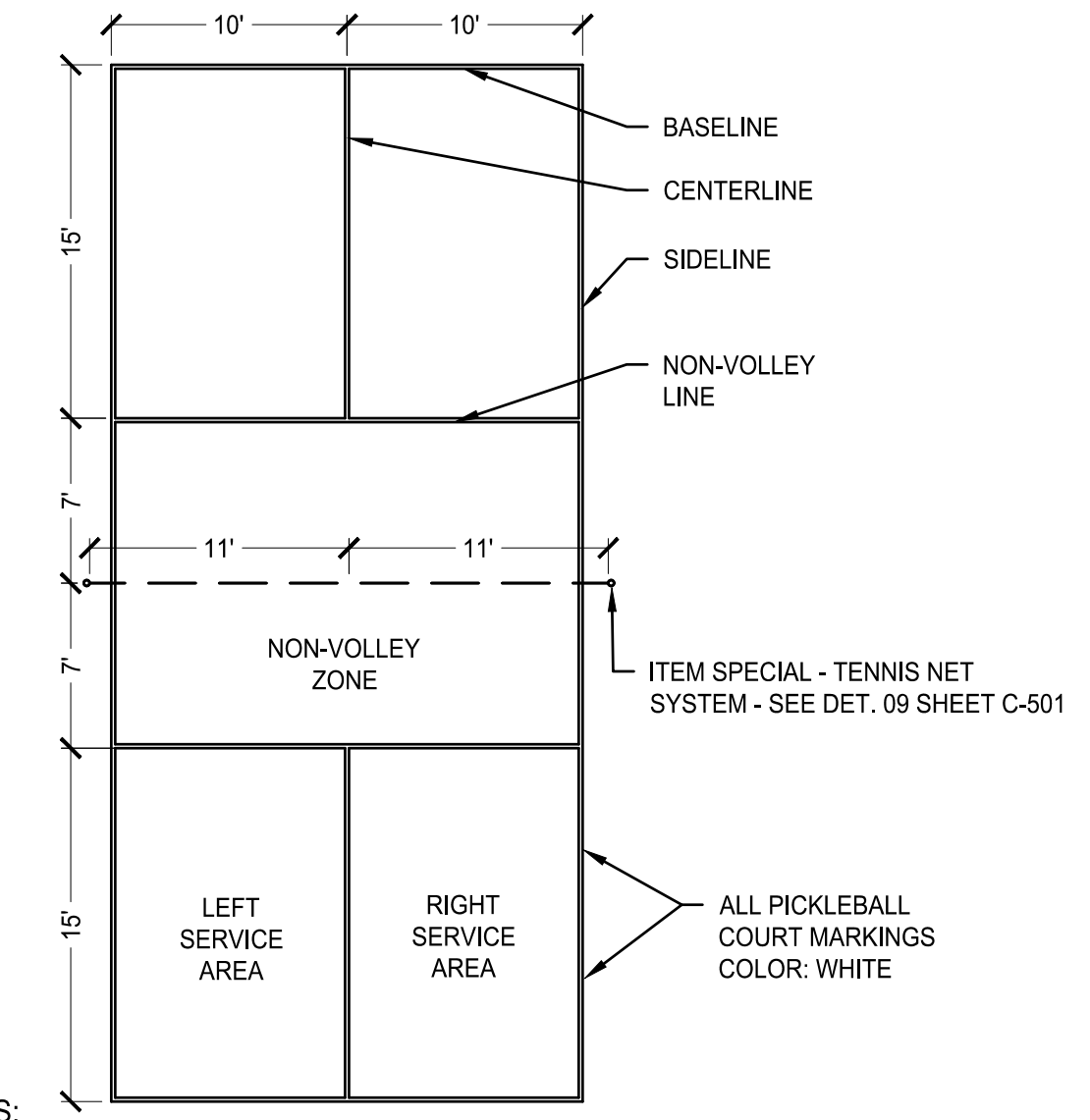
NOTES:
 1. REFER TO SPECIFICATION SECTION 321823 ATHLETIC COURT SURFACE COLOR COATING SYSTEM FOR COLOR SURFACE & STRIPING REQUIREMENTS. TENNIS COURT MARKING SHALL BE IN ACCORDANCE WITH USTA RULES OF TENNIS AND ASBA TENNIS BOOK GUIDELINES.
 2. MEASUREMENTS FOR INTERIOR COURT MARKINGS TO OUTSIDE OF LINES. DIMENSIONS FOR SIDE (DOUBLES) & BASE TO CENTERLINE OF COURT MARKING.
 3. ALL COURT MARKINGS SHALL BE 2" WIDE.

01 ITEM SPECIAL - TENNIS COURT STRIPING
 NOT TO SCALE



NOTES:
 1. REFER TO SPECIFICATION SECTION 321823 ATHLETIC COURT SURFACE COLOR COATING SYSTEM FOR COLOR SURFACE & STRIPING REQUIREMENTS. TENNIS COURT MARKING SHALL BE IN ACCORDANCE WITH USTA RULES OF TENNIS AND ASBA TENNIS BOOK GUIDELINES. PICKLEBALL COURT MARKING SHALL BE IN ACCORDANCE WITH THE USAPA RULES AND ASBA PICKLE BALL BOOK GUIDELINES.
 2. MEASUREMENTS FOR INTERIOR COURT MARKINGS TO OUTSIDE OF LINES. DIMENSIONS FOR SIDE (DOUBLES) & BASE TO CENTERLINE OF COURT MARKING.
 3. ALL COURT MARKINGS SHALL BE 2" WIDE.

03 ALT. BID - ITEM SPECIAL - PICKLEBALL COURT STRIPING
 NOT TO SCALE



NOTES:
 1. REFER TO SPECIFICATION SECTION 321823 ATHLETIC COURT SURFACE COLOR COATING SYSTEM FOR COLOR SURFACE & STRIPING REQUIREMENTS. PICKLEBALL COURT MARKING SHALL BE IN ACCORDANCE WITH THE USAPA RULES AND ASBA PICKLE BALL BOOK GUIDELINES.
 2. MEASUREMENTS FOR INTERIOR COURT MARKINGS TO OUTSIDE OF LINES. DIMENSIONS FOR SIDE (DOUBLES) & BASE TO CENTERLINE OF COURT MARKING.
 3. ALL COURT MARKINGS SHALL BE 2" WIDE.

02 ITEM SPECIAL - TENNIS AND PICKLEBALL COURT STRIPING
 NOT TO SCALE

DRAWING PATH: P:\3000_3498\300220170_Fabens_Park_Tennis_Courts\Drawings\PLN_LUD\Sheets\220170_DET.dwg Apr 06, 2023 - 11:09am

Pickleball @ Shiawassee

Email dated 5/23/2023

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Dave-

Pursuant to our discussion today, please see attached drawing that shows how 6 pickleball courts would fit perfectly on the existing 92'x120' asphalt pad at Shiawassee. The dimensions shown are official pickleball sizes along with best practices for perimeter clearances.

Using the costs that Chuck got and in conversation with Bill, I would estimate that a budget for 6 courts might be as follows:

- 6 new pickleball nets (installed): \$18k
- Asphalt crack sealing/repair top coat and striping: \$20k
- New 6' high fence between rows of courts: \$7k
- Repaint existing perimeter fencing: \$5k
- 6 new benches: \$12k
- Contingency: \$10k

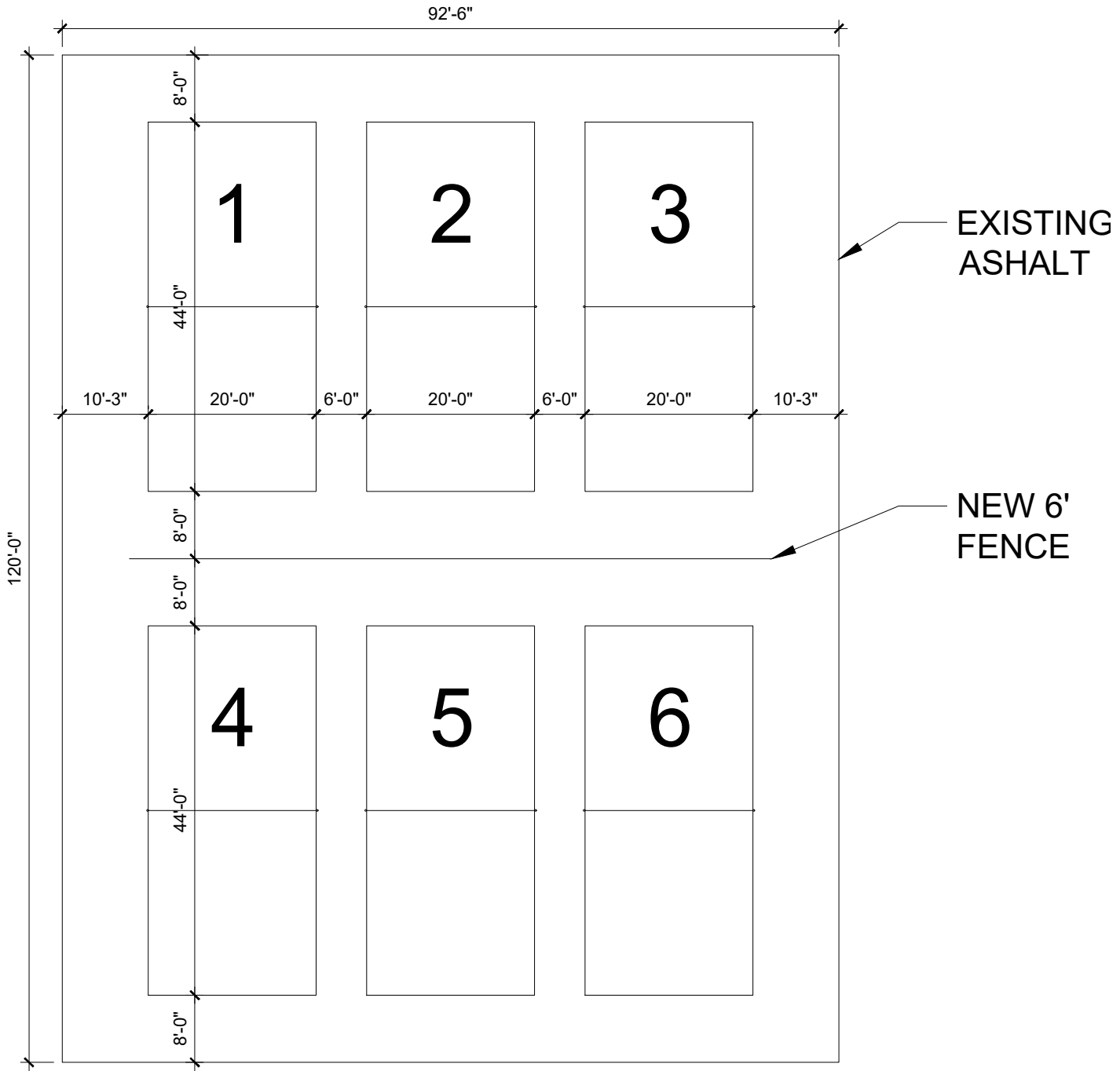
Total: \$72k

Steven Schneemann

S3 Architecture, PLLC

(o) 248-427-0007

(c) 248-321-9800



Tennis/Pickleball nets
Email dated 5/20/2023

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

I just read an article saying tennis nets are 44" high. That is not true, tennis nets are set at 36" in center of net and pickleball nets are 34" at the center of the net. You can lower (loosen) the nets for pickleball or tighten them for higher setting for tennis with a center strap. I also wanted to let you know, my suggestion would be to have 1 tennis court and convert the other court into 2 pickleball courts. The pickleball courts would utilize the existing tennis net as a barrier between the courts. I am attaching an example of what I am suggesting. The color/dimensions are not correct for your project but I wanted you to have an idea of what I was suggesting. We could make the play areas all blue, or just serving areas blue for minimal cost. Then you could either use permanent pickleball nets or portable, the link below should take you to a website for affordable nets.

https://www.googleadservices.com/pagead/aclk?sa=L&ai=DChcSEwjz7JvOhYX_AhXKAbMAHSYaCpwYABBBGgJ5bQ&ohost=www.google.com&cid=CAESauD28cjCugze3kPFfnIOouw-uUdmfBbuGcD0_hKFluQZL84QyvJokYft8nF8j_UseFhU-seb9OIBE0K9S-YaGm0ClyXqp2XGv4imDNuKzkgNiO2UHQktBVbQtdldDNzlbZPK66G-3K2Tw0w&sig=AOD64_2OljedXulncToRMzd4G8TlCwABQ&q&adurl&ved=2ahUKEwjQv5LOhYXAhXBjIkeHZIGC54Q0Qx6BAgFEAE

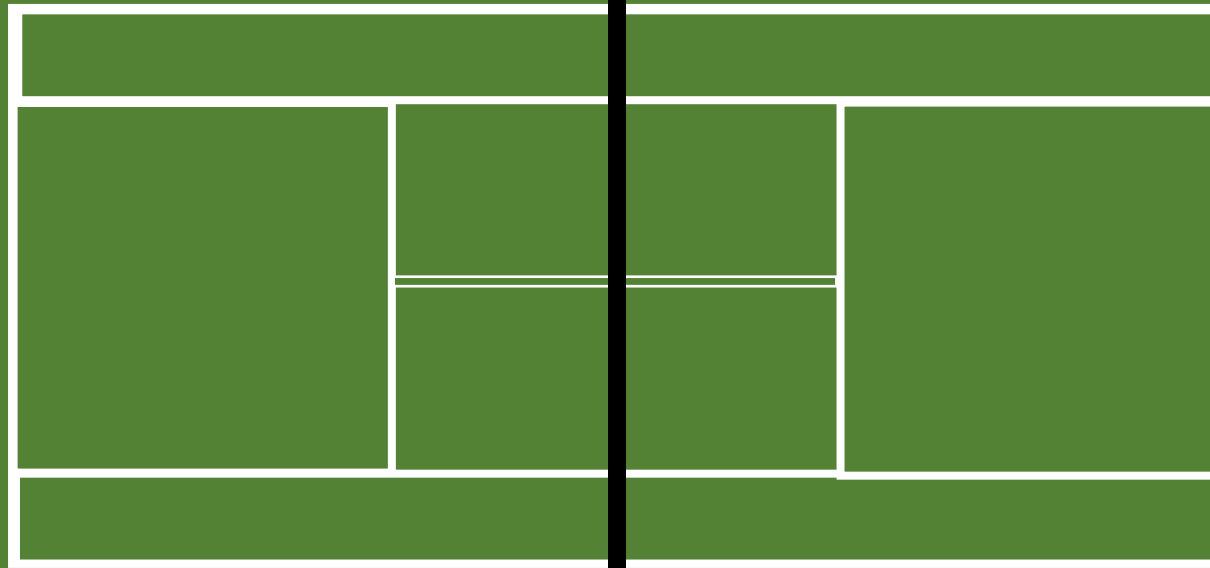
Mike Laser
Laser Striping and Sport Surfacing

42040 Koppnick Bldg D, Ste 403
Canton, MI 48187
Cell: 313-779-8415

www.laserstriping.com



-- 106 ft --



|

|

98 ft

|

|

