

AUBURN HIGH SCHOOL TENNIS COURTS RENOVATIONS

FOR

ROCKFORD PUBLIC SCHOOL #205 ROCKFORD, ILLINOIS

IFB #23-25 RPS PROJ. #2225

WINNEBAGO COUNTY

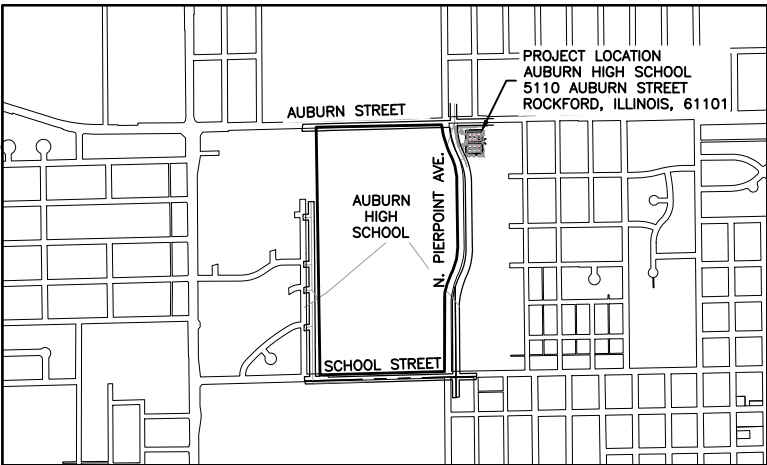
AUGUST 2022



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UTILITIES	
UTILITY TYPE	COMMON NAME
WATER	CITY OF ROCKFORD
SEWER	FOUR RIVERS SANITATION AUTHORITY
ELECTRIC	COMMONWEALTH EDISON
TELEPHONE	VERIZON, AT&T COMPANY, SBC AMERITCH, MCLEOD USA
GAS	NICOR GAS COMPANY
CABLE	INSIGHT COMMUNICATIONS

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)



LOCATION MAP



AUGUST 30, 2022
SIGNATURE DATE

BID



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS

IOWA

WISCONSIN

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER: 184003525

ORIGINAL SET FOR PROJECT: 21-1159 PH03 DATE CREATED: 08/30/2022		
REVISIONS		
REV. NO.	DESCRIPTION	DATE

GENERAL NOTES

1.

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ROCKFORD PUBLIC SCHOOLS GUIDELINE, THE MUNICIPAL CODE, CITY OF ROCKFORD, ILLINOIS, CURRENT EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," CURRENT EDITION.
2.

IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN ROCKFORD PUBLIC SCHOOLS #205, OR THEIR DULY AWARDED AGENT.
3.

AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
4.

IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER AND OWNER.
5.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS, ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES – THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.
6.

THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
7.

GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.
8.

THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
9.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.
10.

THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ANY EXISTING SIGNAGE AFFECTED BY THE PROPOSED IMPROVEMENTS AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.
11.

ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
12.

AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS BY LOCKING OF THE ACCESS GATES OF THE PERIMETER FENCE OF THE TENNIS COURTS. THE GATES ARE TO BE SECURED BY MEANS OF A LOCKING SYSTEM THAT ALLOWS ACCESS INDEPENDENTLY BY THE OWNER OR THE CONTRACTOR IN AT LEAST ONE LOCATION.
13.

THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, ELEVATIONS AND FLOWS. NOTIFY ENGINEER OF ANY SURFACE GRADING/DRAINAGE CONCERNS PRIOR TO BID.
14.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
15.

ANY AREAS DAMAGED OR DESTROYED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO THAT CONDITION OR BETTER WHICH EXISTED PRIOR TO STARTING CONSTRUCTION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

SEEDING OF DISTURBED AREAS

1.

RESTORATION – THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.
2.

THE FINAL TOP 4 INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
3.

FERTILIZER HAVING AN ANALYSIS OF 10–10–10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.
4.

THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING, CLASS 1A AND NAG DS75 EROSION CONTROL BLANKETS OR APPROVED EQUAL IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION OR AS APPROVED BY THE ENGINEER.
5.

GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED FOR AT LEAST 30 DAYS AFTER APPLICATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30–DAY MAINTENANCE AND MOWING.
6.

THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS 280–285, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.

UTILITIES

1.

NO GRADING OR EXCAVATION IS PROPOSED AS PART OF THE PROPOSED WORK AND NO CONFLICTS WITH UTILITIES ARE EXPECTED. HOWEVER, THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES ENCOUNTERED. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS TO BE MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, IDENTIFICATION AND PROTECTION OF ANY UTILITIES ENCOUNTERED. ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST.

TENNIS COURT SURFACE SYSTEM

1.

TENNIS COURT SURFACE SYSTEM TO BE NGI PRO BOUNCE SYSTEM OR ENGINEER/OWNER APPROVED EQUAL WITH ACRYLIC FINISH SURFACE, FIBERGLASS FIBERMESH UNDERLAYMENT AND PLAYING LINES. ALL WORK SHALL BE DONE PER RESPECTIVE SYSTEM MANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATIONS.
2.

ALL PRO BOUNCE MATERIALS SHALL BE PURCHASED THROUGH THE SURFACE SUPPLIER, NGI SPORTS, TO ENSURE CORRECT MATERIALS ARE USED.
3.

TENNIS COURT LINES AND MARKINGS SHALL ADHERE TO USTA GUIDELINES AND SPECIFICATIONS.

TENNIS COURT SURFACE PREPARATION

1.

STAGE ALL MATERIALS DELIVERED TO SITE.
2.

PATCH AND CLEAN COURT OF ALL DIRT, DUST, AND FOREIGN DEBRIS.
3.

INSPECT COURT FOR HIGH SPOTS OR MOGULS. ANY ISSUES SHOULD EITHER BE REMOVED, GROUND DOWN, OR LOWERED WITH INFRARED PATCH MACHINE
4.

INSPECT COURT FOR HYDROPHOBIC PATCHES, SUCH AS PATCHES CONSISTING OF LAYERS OF WITHERED ASPHALT EMULSION, EMULSION AND SUGAR CANE FIBERS, OR POORLY CONSTRUCTED CEMENTITIOUS MIXES. REMOVE AND REPAIR AS A LOW SPOT.
5.

FILL ALL LOW AREAS ON COURT THAT HOLD WATER DEEPER THAN THE DEPTH OF A NICKEL FOR A PERIOD OF ONE HOUR OR LONGER. PATCHING TO BE COMPLETED WITH A QUALITY LATEX CONCRETE PATCH MIX. DO NOT USE ASPHALT EMULSION.
6.

FILL ALL CRACKS 0.25" WIDE AND LESS WITH ACR BINDER/SAND MIX.
7.

FILL ALL CRACKS 0.25" TO 0.75" WITH LATEX CONCRETE PATCH MIX THE FULL DEPTH OF THE CRACK.
8.

FILL ALL CRACKS WIDER THAN 0.75" WITH SAND TO BOTTOM OF PAVEMENT. FILL AREA WITH HYDRAULIC CEMENT MIX TO WITHIN ⅛" TO ⅝" OF TOP OF PAVEMENT.
9.

INSTALL FULL FIBERGLASS FIBERMESH UNDERLAYMENT OVER ENTIRE COURT SWURFACE PRIOR TO FINAL SURFACING.
10.

ALLOW TO CURE AND THEN TOP OFF FLUSH WITH PAVEMENT WITH LATEX CONCRETE PATCH MIX. SAND SMOOTH AS NECESSARY.

TENNIS COURT ACCESSORIES

1.

CONTRACTOR TO PROVIDE AN ALTERNATE #1 BID INCLUSIVE OF THE FOLLOWING; REMOVE AND DISPOSE OF THE EXISTING WINDSCREEN AND INSTALLATION OF A NEW WINDSCREEN. NEW WINDSCREEN SHALL MATCH THE DETAILS, (HEIGHT, MATERIAL, ATTACHMENT ETC., ALTHOUGH THE COLOR AND GRAPHICS SHALL BE UNIQUE TO AUBURN), OF THE EXISTING WINDSCREEN LOCATED AT GUILFORD HIGH SCHOOL TENNIS COURTS. NEW WINDSCREEN SHALL EXTEND AROUND THE ENTIRE PERIMETER FENCE AND WILL SPORT SCHOOL SPECIFIC (AUBURN) BRANDING OF A SIMILAR QUANTITY AND SCALE AS THE GUILFORD WINDSCREEN. COLOR AND GRAPHICS AS PER SCHOOL'S DIRECTION, CONTRACTOR TO PROVIDE SAMPLES TO THE SCHOOL REP. FOR APPROVAL PRIOR TO ORDERING.

SUMMARY OF QUANTITIES

BASE BID		
DESCRIPTION	QUANTITY	UNIT
TENNIS NET SYSTEM REMOVE, STORE AND REINSTALL	6	EA
SITE RESTORATION	1	LS
PROJECT LAYOUT	1	LS
TENNIS COURT SURFACE SYSTEM *	4160	SY
FIBERGLASS FIBERMESH UNDERLAYMENT	4160	SY
PAINTED PLAYING LINES (PER COURT)	6	EA
PAINTED LOGO	2	LS
PAINTED LETTERING "WELCOME TO THE CASTLE" "HOME OF THE KNIGHTS"	1	LS

ALTERNATE #1

REMOVE EXISTING WINDSCREEN	1	LS
NEW WINDSCREEN FOR ENTIRE FENCE PERIMETER WITH SCHOOL (AUBURN) SPECIFIC BRANDING	782	LF

* NOTE: TENNIS COURT SURFACE SYSTEM SHALL INCLUDE A MANUFACTURER’S WARRANTY AND INSTALLER’S GUARANTEE FOR A PERIOD OF 5 YEARS FROM THE DATE OF CONSTRUCTION.



ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184–003525

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

ROCKFORD PUBLIC SCHOOL #205
501 7TH STREET
ROCKFORD, ILLINOIS, 61104

PROJECT AND LOCATION:

AUBURN HIGH SCHOOL TENNIS
COURTS RENOVATIONS
ROCKFORD, ILLINOIS

DRAWN BY: JB

APPROVED BY: KH

DATE: 08/30/2022

SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

GENERAL NOTES AND SUMMARY OF
QUANTITIES

SET TYPE: BID

G:\C30\21\1159 ph03\Plans\21-1159 PH03 PLAN.dwg, NOTES1

JOB NUMBER:

21–1159PH03

SHEET NUMBER:

2 of 5

ABBREVIATIONS

ANGLE	AGGREGATE BASE COURSE	PE	POLYETHYLENE PIPE
ABC	ACRE(S)	PI	POINT OF INTERSECTION
ACI	AMERICAN CONCRETE INSTITUTE	PL	PLATE
AGR	AGGREGATE	PLG	PLUG VALVE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	PLP	POLYPROPYLENE PIPE
ALT	ALTERNATE	PLYWD	PLYWOOD
ARCH	ARCHITECT	PM	PRINCIPAL MERIDIAN
ASPH	ASPHALT	PR	PRESSURE REGULATORS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	PRC	POINT OF REVERSE CURVATURE
B	BALL VALVE	PRESS	PRESSURE
BFP	BACKFLOW PREVENTER	PR, PROP	PROPOSED
BIT	BITUMINOUS	PRV	PRESSURE REDUCING VALVE
BLDG	BUILDING	PSF	POUNDS PER SQUARE FOOT
BLK	BLOCKING	PSI	POUNDS PER SQUARE INCH
BM	BENCHMARK	PSL	PIPE SLEEVE
BOT	BOTTOM	PT	POINT OF TANGENCY
BSMT	BASEMENT	PLG	PLUG VALVE
BV	BUTTERFLY VALVE	PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
B-B	BACK-TO-BACK OF CURB DIMENSION	R	RADIUS
CL or C	CENTERLINE	RDCR	REDUCER
C to C	CENTER TO CENTER	RCCP	REINFORCED CONCRETE CYLINDER PIPE
C & G	CURB AND GUTTER	RECP	REINFORCED CONCRETE PIPE
CF	CUBIC FEET	RD	ROOF DRAIN
CHD	CHORD LENGTH	REINF	REINFORCING
CI	CAST IRON PIPE	REQD	REQUIRED
CHK	CHECK VALVE	ROW	RIGHT OF WAY
CLR	CLEAR	RFR	RAFTER
CMP	CORRUGATED METAL PIPE	RND	ROUND
CMU	CONCRETE MASONRY UNIT	RR	RAILROAD
CTY	COUNTY	RSSP	RAILROAD SPIKE
CONC	CONCRETE	RT	RIGHT
CONT	CONTINUOUS	R&R	REMOVE AND REPLACE
C-B	CENTERLINE TO BACK OF CURB DIMENSION	S	SOUTH
COORD	COORDINATE	SB	STREAM BED
CT	COPPER PIPING	SCHED	SCHEDULE
CTRS	CENTERS	SEC	SECTION
CY	CUBIC YARDS	SF	SQUARE FEET
CS	CORPORATION STOP	SHR	SHOWER
D	DEGREE OF CURVE	SHT	SHEET
DEP	DEPRESSED	SHTG	SHEATHING
DET	DETAIL	SP	SANITARY PIPE
DIAG	DIAGONAL	SPA	SPACING OR SPACES
DIM	DIMENSION	SPEC	SPECIFICATION
DI	DUCTILE IRON PIPE	SQ	SQUARE
DN	DOWN	SS	SANITARY SERVICE
DNSTR	DOWNSTREAM	STA	STATION
DP	DRAINAGE PIPE/STORM PIPE	STD	STANDARD
DWG	DRAWING	STL	STEEL
E	EAST	STRUCT	STRUCTURAL
EJ	EXPANSION JOINT	SW	SIDEWALK
EL, ELEV	ELEVATION	SY	SQUARE YARDS
EP	EDGE OF PAVEMENT	SYM	SYMMETRICAL
EQUIP	EQUIPMENT	TAN	TANGENT LENGTH
EQUIV	EQUIVALENT	TBC	TOP BACK OF CURB
EW	EACH WAY	TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
EXP	EXPANSION	TD	TILE DRAIN
EX, EXIST	EXISTING	THK	THICK
EXT	EXTERIOR	TR	TREAD
E =	EXTERNAL DISTANCE	TY	TYPE
FD	FLOOR DRAIN	TYP	TYPICAL
FDN	FOUNDATION	U.O.N.	UNLESS OTHERWISE NOTED
FE	FIELD ENTRANCE	UP	UTILITY POLE
FF	FINISH FLOOR	UPSTR	UPSTREAM
FIL	FILLET	UR	URINAL
FIN	FINISH	USGS	US GEOLOGICAL SURVEY
FL	FLOW LINE	VC	VERTICAL CURVE
FLR	FLOOR	VCP	VITRIFIED CLAY PIPE
FM	FORCE MAIN	VERT	VERTICAL
FND	FOUND	VOL	VOLUME
FRMG	FRAMING	VPC	VERTICAL POINT OF CURVATURE
FTG	FOOTING	VPI	VERTICAL POINT OF INTERSECTION
F-F	FACE TO FACE	VPRC	VERTICAL POINT OF REVERSE CURVATURE
GA	GAUGE	VPT	VERTICAL POINT OF TANGENCY
GI	GALVANIZED IRON PIPE	W	WEST
GRD	GRADE	WC	WATER CLOSET
GRS	GRATING SUPPORT	WF	WIDE FLANGE
GRT	GROUT	WM	WATER MAIN
GV	GAS VALVE	WMQ	WATER MAIN QUALITY
GYP	GYPSONUM	WV	WATER VALVE
HSE	HOUSE	WGT	WEIGHT
HC	HORIZONTAL CURVE	WP	WEATHER PROOF
HMA	HOT MIX ASPHALT	WS	WATER SERVICE
HNGR	HANGER	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL	W	WITH
H.P.	HIGH POINT	W/O	WITHOUT
HW	HOT WATER	XP	EXPLOSION PROOF
HWH	HOT WATER HEATER		
Δ =	CENTRAL ANGLE		
I	MOMENT OF INERTIA		
ID	INSIDE DIAMETER		
INT	INTERIOR		
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM		
IRON PIPE	IRON PIPE		
JOIST	JOIST		
JUST	JUST		
L	LENGTH OF CURVE		
LAT	LATERAL		
LAV	LAVATORY		
LF	LINEAL FEET		
L.P.	LOW POINT		
LT	LEFT OF SURVEY BASE LINE		
MAX	MAXIMUM		
ME	MATCH EXISTING		
MH	MANHOLE		
MIN	MINIMUM		
MJ	MECHANICAL JOINT		
MTL	METAL		
N	NORTH		
Nb. OR #	NUMBER		
NOM	NOMINAL		
NTS	NOT TO SCALE		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OO	OUTSIDE TO OUTSIDE		
OPNG	OPENING		
OPP	OPPOSITE		
PC	POINT OF CURVATURE		
PCC	PORTLAND CEMENT CONCRETE		
PCF	POUNDS PER CUBIC FOOT		
PDP	PERFORATED DRAIN PIPE		

SYMBOLS

CIVIL		STORM SEWER		TRAFFIC RELATED	
EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
EXISTING R.O.W.	PROPOSED R.O.W.	ST	ST	CONTROLLER	CONTROLLER
RIGHT-OF-WAY LINE	RIGHT-OF-WAY LINE	DT	DT	MAST ARM ASSEMBLY AND POLE	MAST ARM ASSEMBLY AND POLE
PROPERTY LINE	PROPERTY LINE	DITCH LINE (PAVED)	DITCH LINE (PAVED)	SIGNAL HEAD AND POST	SIGNAL HEAD AND POST
CENTERLINE	CENTERLINE	DITCH LINE (UNPAVED)	DITCH LINE (UNPAVED)	SIGNAL HEAD	SIGNAL HEAD
SETBACK LINE	SETBACK LINE	STORM MANHOLE	STORM MANHOLE	PEDESTRIAN HEAD	PEDESTRIAN HEAD
EASEMENT LINE	EASEMENT LINE	CATCH BASIN	CATCH BASIN	PEDESTRIAN PUSH-BUTTON	PEDESTRIAN PUSH-BUTTON
SECTION LINE	SECTION LINE	STORM SEWER INLET	STORM SEWER INLET	HAND HOLE	HAND HOLE
SECTION CORNER	SECTION CORNER	DOWNSPOUT	DOWNSPOUT	DOUBLE HAND HOLE	DOUBLE HAND HOLE
COORDINATE POINT ON GRID SYSTEM	COORDINATE POINT ON GRID SYSTEM	CULVERT AND SIZE	CULVERT AND SIZE	HAND HOLE OR JUNCTION BOX	HAND HOLE OR JUNCTION BOX
FOUND OR SET PROPERTY PIN	FOUND OR SET PROPERTY PIN	RCCP OR RCP EQRS (RCAP) END SECTION	RCCP OR RCP EQRS (RCAP) END SECTION	HEAVY-DUTY HAND HOLE	HEAVY-DUTY HAND HOLE
RIGHT-OF-WAY MARKER	RIGHT-OF-WAY MARKER	METAL OR HDPE END SECTION	METAL OR HDPE END SECTION	EXISTING CONDUIT (LENGTH AND SIZE) PROP GALVANIZED STEEL OR PVC CONDUIT UPPER NUMERAL INDICATES LENGTH "T" INDICATES CONDUIT IN TRENCH "P" INDICATED CONDUIT PUSHED LOWER NUMERAL INDICATES SIZE AND TYPE	EXISTING CONDUIT (LENGTH AND SIZE) PROP GALVANIZED STEEL OR PVC CONDUIT UPPER NUMERAL INDICATES LENGTH "T" INDICATES CONDUIT IN TRENCH "P" INDICATED CONDUIT PUSHED LOWER NUMERAL INDICATES SIZE AND TYPE
BENCHMARK	BENCHMARK	FLOW DIRECTION	FLOW DIRECTION	LUMINAIRE	LUMINAIRE
CONTOUR LINE	CONTOUR LINE			ARROW - THROUGH, TURN LEFT	ARROW - THROUGH, TURN LEFT
SPOT ELEVATION (AT)	SPOT ELEVATION (AT)			ARROW - THROUGH	ARROW - THROUGH
FENCE LINE	FENCE LINE			ARROW - TURN LEFT	ARROW - TURN LEFT
SILT FENCE LINE	SILT FENCE LINE			ARROW - TURN RIGHT	ARROW - TURN RIGHT
CURB AND GUTTER	CURB AND GUTTER			ONE DIRECTION TURN ONLY	ONE DIRECTION TURN ONLY
TIP OUT CURB AND GUTTER	TIP OUT CURB AND GUTTER			HANDICAPPED PARKING STALL	HANDICAPPED PARKING STALL
SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT	SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT			TRAFFIC DETECTOR LOOP	TRAFFIC DETECTOR LOOP
DECIDUOUS TREE W/ SIZE	DECIDUOUS TREE W/ SIZE			TRAFFIC CONTROL BOX	TRAFFIC CONTROL BOX
CONIFEROUS TREE W/ SIZE	CONIFEROUS TREE W/ SIZE				
TREE STUMP	TREE STUMP				
HEDGEROW	HEDGEROW				
BUSH OR SHRUB	BUSH OR SHRUB				
TREE LINE	TREE LINE				
CONSTRUCTION LIMIT LINE	CONSTRUCTION LIMIT LINE				
SIGN (MULTIPLE POST, SINGLE POST, STREET SIGN)	SIGN (MULTIPLE POST, SINGLE POST, STREET SIGN)				
SIGN (PYLON)	SIGN (PYLON)				
GUARD RAIL	GUARD RAIL				
RAILROAD TRACKS	RAILROAD TRACKS				
BUILDING	BUILDING				
MAILBOX	MAILBOX				
FLAGPOLE	FLAGPOLE				
BOLLARD	BOLLARD				
AIR CONDITIONER	AIR CONDITIONER				



CONSTRUCTION NOTES

1. COURT RESURFACING. CONTRACTOR SHALL INSTALL TENNIS COURT SURFACE SYSTEM WITH FIBERGLASS FIBERMESH UNDERLAY ON EXISTING ASPHALT SURFACE. (ALSO SEE GENERAL NOTES SHEET 2). INSTALLATION TO BE DONE PER MANUFACTURER'S SPECIFICATIONS. PRIOR TO SURFACE SYSTEM INSTALLATION CONTRACTOR SHALL PREPARE SURFACE PER PROJECT SPECIFICATIONS. COLOR OF FINAL PLAYING SURFACE SHALL BE RED COURTS, WHITE LINES, BLACK SHORT COURT LINES AND BLACK BORDER AREAS. CONTRACTOR SHALL SUBMIT MATERIAL SPECIFICATIONS AND COLOR SAMPLES TO OWNER AND ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS. ALL PAINTED PLAYING LINES SHALL BE INSTALLED IN ACCORDANCE WITH GOVERNING BODY REQUIREMENTS. FINAL SURFACE SHALL BE CONSISTENT WITH AN ITF PACE CLASSIFICATION RATING OF MEDIUM.
2. TENNIS NETS SHALL BE REMOVED, STORED BY THE CONTRACTOR DURING SURFACING IMPROVEMENTS AND REINSTALLED UPON COMPLETION. EXISTING NET POSTS AND CENTER STAYS SHALL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR TO TAKE MEASURES TO PROTECT THESE FROM MARRING OR DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO THESE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO PRE-CONSTRUCTION CONDITIONS AT NO COST TO OWNER.
3. CONTRACTOR TO SUPPLY ALL LABOR AND MATERIALS NECESSARY TO ADD CUSTOM SCHOOL GRAPHICS TO THE COURT AREA SURFACE AS INDICATED ON PLAN. ALONG THE WEST BORDER OF THE COURTS, 3'-0" HEIGHT LETTERING SPELLING OUT "WELCOME TO THE CASTLE" AND "HOME OF THE KNIGHTS" SHALL BE INSTALLED WITH LETTERING TO MATCH THE LETTERING WITHIN THE SCHOOL LOGO (WHITE LETTERS WITH RED BORDER), EXACTLY MATCH LOGO FONT AND COLORS. PROVIDE SAMPLE OF LETTERING STYLE TO THE OWNER'S REP. FOR APPROVAL PRIOR TO INSTALLATION. TWO SCHOOL LOGOS SHALL BE INSTALLED IN LOCATIONS INDICATED ON PLAN. LOGOS TO BE IN THE COLORS SHOWN ON THE DETAILS SHEET APPROXIMATELY 4'-0"H X 9'-0"W IN SIZE. AN ELECTRONIC GRAPHIC OF THE LOGO SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST. CONTRACTOR SHALL SUBMIT MATERIAL SPECIFICATIONS AND COLOR SAMPLES TO OWNER AND ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS.

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

ROCKFORD PUBLIC SCHOOL #205
501 7TH STREET
ROCKFORD, ILLINOIS, 61104

PROJECT AND LOCATION:

AUBURN HIGH SCHOOL TENNIS
COURTS RENOVATIONS
ROCKFORD, ILLINOIS

DRAWN BY: JB
APPROVED BY: KH
DATE: 08/30/2022
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

IMPROVEMENT PLAN

SET TYPE: BID

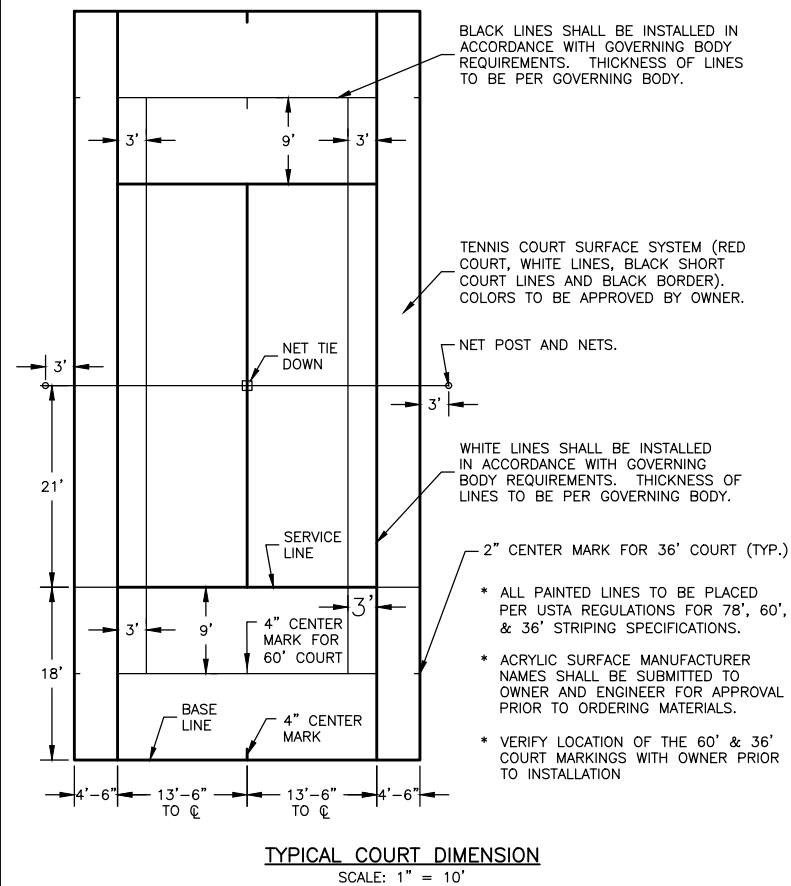
G:\CSD\21\21-1159 ph03\Plans\21-1159 PH03 PLAN.dwg, IMPROVEMENT

JOB NUMBER:

21-1159PH03

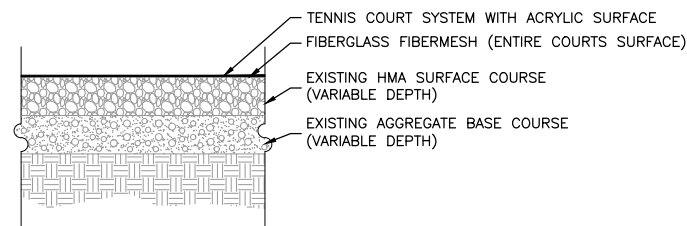
SHEET NUMBER:

4 of 5



- * LOGO: ONE LOCATION, COLORS AS SHOWN ABOVE.
- * LETTERING: TWO LOCATIONS, COLOR: RED, HEIGHT: 3'-0", STYLE: PROVIDE OPTIONS TO OWNER FOR SELECTION.
LOCATION ONE - "WELCOME TO THE CASTLE"
LOCATION TWO - "HOME OF THE KNIGHTS"

SCHOOL LOGO GRAPHIC
NOT TO SCALE



TENNIS COURT PAVEMENT SECTION
N.T.S

REVISIONS		
REV. NO.	DESCRIPTION	DATE