OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

Ottumwa, IA 52501

CLIENT CONTACT INFORMATION:
DAVID HARPER
CHIEF OPERATIONS OFFICER
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OLSSON CONTACT INFORMATION:
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TECHNICAL LEADER
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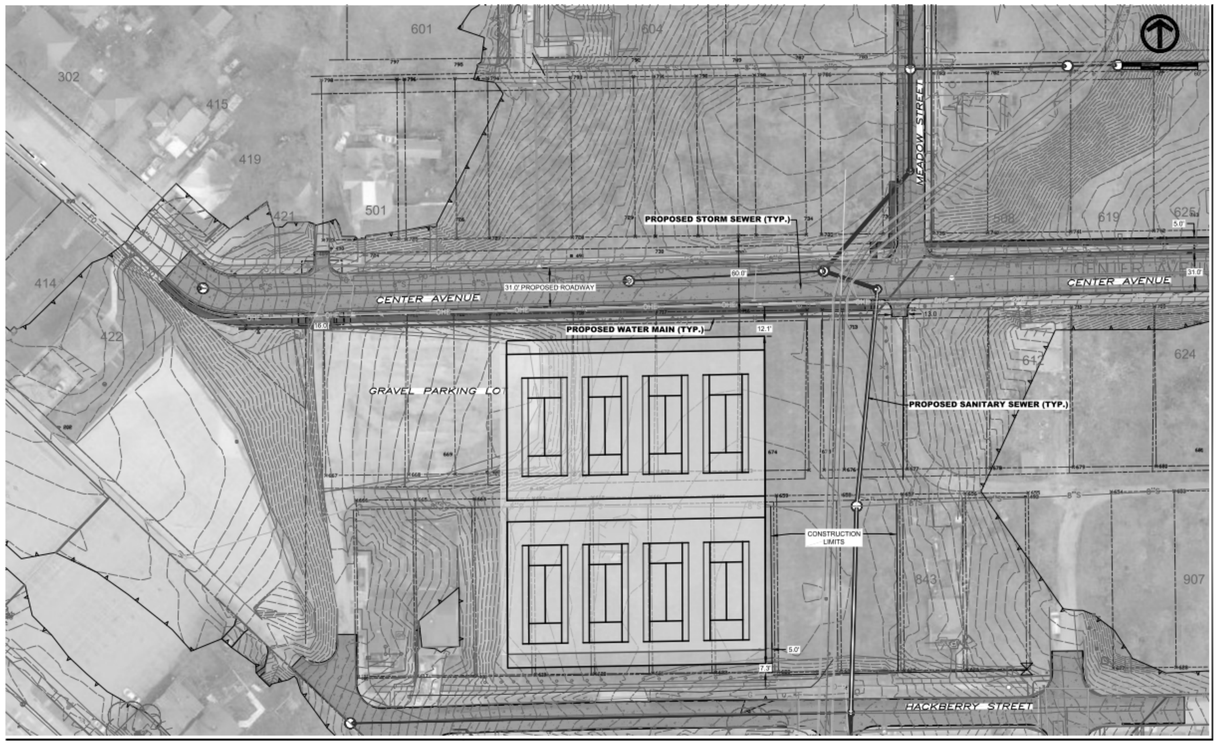

INSTRUCTIONS TO BIDDERS:

1. SEALED BIDS WILL BE RECIEVED ON TUESDAY, NOVEMBER 7, 2023 AT 2:00 PM PREVIALING TIME FOR THE TENNIS COURT PROJECT BY;

   THE BOARD OF EDUCATION: OTTUMWA COMMUNITY SCHOOL DISTRICT
   1112 N. VAN BUREN
   OTTUMWA, IA 52501

2. LUMP SUM BID PROPOSALS WILL BE RECIEVED FOR THIS PROJECT AT THE SCHEDULED TIME OF RECIEPT OF BIDS ABOVE AND WILL BE PUBLICLY OPENED AT THAT TIME.

3. A PRE-BID CONFERENCE WILL BE HELD ON THURSDAY NOVEMBER 2, 2023 AT 1:00 PM (CST) AT THE OTTUMWA DISTRICT OFFICE; 1112 N. VAN BUREN, OTTUMWA, IA 52501. ALL BIDDERS ARE STRONGLY ENCOURAGED TO ATTEND AND SIGN IN AT THE MEETING WHICH WILL ALSO BE ATTENDED BY THE OWNER.

4. ALL BIDDERS ARE STRONGLY ENCOURAGED TO PERFORM A SITE VISIT PRIOR TO SUBMITTING BIDS.

5. BID SECURITY IN THE FOR OF A BID BOND, CERTIFIED CHECK OR CASH IN AN AMOUNT EQUAL TO FIVE PERCENT OF THE BASE BID AMOUNT SHALL BE SUBMITTED WITH THE BID. SHOULD A BID BOND BE SUBMITTED, THE BID BOND SHALL BE PAYABLE TO THE BOARD OF EDUCATION - OTTUMWA COMMUNITY SCHOOL DISTRICT.

6. BIDS SHALL BE SUBMITTED ON OR BEFORE THE SPECIFIED CLOSING TIME IN AN OPAQUE SEALED ENVELOPE ADDRESSED TO:

   OTTUMWA COMMUNITY SCHOOL DISTRICT
   ATTN: MR. MIKE McGREGORY, SUPERINTENDENT
   1112 N. VAN BUREN
   OTTUMWA, IA 52501

7. THE BOARD OF EDUCATION RESERVES THE RIGHT TO REJECT ANY BID OR ALL BIDS OR PART THEREOF, OR WAIVE ANY IRREGULARITIES OR INFORMALITIES, AND TO MAKE THE AWARD IN THE BEST INTEREST OF THE DISTRICT.

8. CONTRACTOR MAY OBTAIN ELECTRONIC BID DOCUMENTS AT NO COST IN PDF FORM THROUGH DAVID HARPER AT DAVID.HARPER@OTTUMWASCHOOLS.COM OR THROUGH CARY SCHROEDER AT CSCHROEDER@OLSSON.COM OR VIA THE STATE OF IOWA AT https://bidopportunities.iowa.gov/

9. CONTRACTORS SHALL BE RESPONSIBLE FOR ANY HARD COPY SETS OF PLANS OR SPECIFICATIONS AT THE CONTRACTORS COST.

ADAM R. CHRISTENSEN 21221 LICENSED PROFESSIONAL ENGINEER IOWA

10/24/2023

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

SIGNATURE

NAME: ADAM R. CHRISTENSEN

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.

PAGES OR SHEETS COVERED BY THIS SEAL:
S001, S100, S101, S200

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REVISIONS

REV. NO.	DATE	REVISION DESCRIPTION

COVER SHEET

OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

OTTUMWA, IA

2019

drawn by: XXX
checked by: XXX
approved by: XXX
QA/QC by:
project no.:
drawing no.:
date 10/17/2023

SHEET
G000

GENERAL STRUCTURAL NOTES:

FOUNDATIONS:

1. THE GEOTECHNICAL ENGINEER SHALL BE RETAINED FOR TESTING AND SPECIAL INSPECTIONS DURING ALL EARTHWORK AND FOUNDATION CONSTRUCTION PHASES TO VERIFY THAT THE RECOMMENDATIONS OF THE SUBSOIL INVESTIGATION ARE BEING IMPLEMENTED. THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL FOUNDATION EXCAVATIONS AND SLAB SUBGRADE IMMEDIATELY PRIOR TO PLACEMENT OF ANY CONCRETE AND SHALL TEST ALL FILL FOR PROPER COMPACTION.
2. FILL BELOW SLABS-ON-GRADE SHALL CONSIST OF CLEAN GRANULAR MATERIAL COMPACTED TO 95% TO 98% OF STANDARD PROCTOR DENSITY. SEE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.
3. ALL STRUCTURAL SLABS-ON-GRADE SHALL BEAR ON A SUB-BASE OF 6 INCHES OF CLEAN AGGREGATE BASE. SEE GEOTECHNICAL REPORT FOR FILL REQUIREMENTS.

CONCRETE AND REINFORCING

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-08, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW. PLACEMENT SHALL CONFORM TO THE LATEST VERSION OF ACI 302.1R, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION."
2. CONCRETE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE SHALL DEVELOP MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH OF 4,000 PSI IN 28 DAYS, BUT NOT LESS THAN 564 POUNDS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE REGARDLESS OF STRENGTH OBTAINED, 0.48 W/C RATIO, WITH 6% PLUS OR MINUS 1% AIR ENTRAINMENT, AND NOT MORE THAN 4" OF SLUMP.
3. THE ADDITION OF WATER TO THE MIX ON SITE SHALL NOT BE ALLOWED. CONCRETE MAY NOT BE PLACED DURING FREEZING WEATHER UNLESS SUITABLY PROTECTED PER ACI 306. CONFORM TO ACI 305 FOR HOT WEATHER CONCRETING.
4. APPLY A BROOM FINISH TO SLAB SURFACE, UNLESS SPECIFIED OTHERWISE BY THE COURT-COATING MANUFACTURER'S RECOMMENDATIONS.
5. CURE CONCRETE FLATWORK BY MOIST CURE ONLY FOR A MINIMUM OF 72 HOURS.
6. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
7. CONCRETE COVER AND MINIMUM LAP SPLICES OF REINFORCING SHALL CONFORM TO ACI 318, LATEST EDITION, UNLESS OTHERWISE DETAILED.
8. CONTRACTOR TO SUBMIT REINFORCING STEEL SHOP DRAWINGS INDICATING PLACEMENT, SPACING, SIZE, AND LAP LENGTHS FOR REVIEW BY ENGINEER OF RECORD PRIOR TO FABRICATION.
9. CONTRACTOR SHALL VERIFY THAT ALL CONCRETE INSERTS, REINFORCING AND EMBEDDED ITEMS ARE CORRECTLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT.
10. ANY HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS NOT SHOWN ON THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION.

COORDINATION AND VERIFICATION

1. CONTRACTOR TO COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS FOR ADDITIONAL OPENINGS, SLEEVES, ETC, NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE LOCATION, SIZE, AND REINFORCEMENT OF ALL OPENINGS WITH RESPECTIVE TRADES PRIOR TO FABRICATION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK OR FABRICATING ANY STRUCTURAL MATERIALS AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES.

POST-TENSIONING

1. POST-TENSIONING TENDONS SHALL BE 0.5" DIAMETER, 270 KSI TENSILE STRENGTH LOW-RELAXATION MONO-STRAND TENDONS, PLASTIC SHEATHED AND GREASED, WITH A MINIMUM ULTIMATE LOAD CAPACITY OF 41.5 KIPS PER CABLE.
2. PROVIDE CERTIFIED MILL REPORTS AND OTHER TEST DATA AS SPECIFIED.
3. ENSURE THAT ANCHORAGES ARE POSITIONED ACCORDING TO THE DESIGN AND FIXED SO THE DO NOT MOVE DURING NORMAL CONSTRUCTION ACTIVITIES. ENSURE THAT ANTI-BURST REINFORCEMENT IS PRESENT AND FIXED CENTRAL TO ANCHORAGE.
4. PROVIDE SUPPORTS AND ACCESSORIES AS REQUIRED TO ASSURE PROPER CABLE POSITION BEFORE, DURING, AND AFTER CONCRETE PLACEMENT. CONTINUALLY MONITOR CABLE PROFILES DURING CONCRETE PLACEMENT TO AVOID DISPLACEMENT OF CABLES.
5. DURING CONCRETE PLACEMENT, CHECK THAT STRANDS ARE NOT DAMAGED BY CONCRETE. IF DAMAGE OCCURS, NOTIFY CONCRETE CONTRACTOR AND ARRANGE FOR REPAIR.
6. AT COMPLETION OF CONCRETE PLACEMENT, CHECK THAT ALL ANCHORS ARE CLEAR OF SLURRY, ETC. CHECK THAT TEST CYLINDERS HAVE BEEN TAKEN DURING POUR AND STORED ON SITE IN CONDITIONS SIMILAR TO SLAB BEING POURED.
7. THE FINAL TENSIONING OPERATION SHOULD NOT BEGIN UNTIL A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,000 PSI HAS BEEN ATTAINED. TENDONS SHOULD NOT BE STRESSED WHERE CRACKS, VOIDS, OR EXCESSIVE HONEYCOMBING IS VISIBLE AT ANCHORAGES.
8. INFORM THE SITE SUPERINTENDENT BEFORE STRESSING COMMENCES IN THE AREA. TAKE CARE AND ENSURE THAT APPROPRIATE SAFETY PRECAUTIONS ARE TAKEN TO PROTECT FIELD PERSONNEL CONDUCTING AND INSPECTING OPERATIONS.
9. POST-TENSIONING CABLES SHALL BE INSTALLED AS FOLLOWS:
   A. UNDER DIRECT SUPERVISION OF SUPPLIER'S REPRESENTATIVE.
   B. STRESS ALL CABLES TO 80% OF ULTIMATE.
   C. SET ALL CABLES OFF AT 70% OF ULTIMATE.
   D. USE HYDRAULIC JACKS, CALIBRATE JACKS BEFORE FIRST PULL.
   E. MEASURE AND LOG ELONGATION OF EACH CABLE DURING STRESSING AND REPORT IN WRITING TO ENGINEER OF RECORD. DO NOT CUT OFF STRESSED CABLE ENDS UNTIL ENGINEER OF RECORD HAS REVIEWED AND ACCEPTED ELONGATIONS.
   F. CUT ALL TENDONS, ENSURING THAT SPECIFIED CONCRETE COVER CAN BE ACHIEVED, USING FRICTION CUTTER. DO NOT USE HEAT-TYPE CUTTING DEVICE.
10. POST-TENSIONING SUPPLIER TO VERIFY TENDON LAYOUT TO PROVIDE 150PSI EFFECTIVE STRESS IN ACCORDANCE WITH PTI DC10.3 - DESIGN AND CONSTRUCTION OF POST- TENSIONED SPORT COURTS.

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
GENERAL				
CONDUCT WEEKLY VISUAL OBSERVATIONS OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND PREPARE WEEKLY REPORTS OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-CONFORMING ITEMS		X		
EARTHWORK				
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		ALL FOOTING AND PILE CAP EXCAVATIONS SHALL BE OBSERVED AND APPROVED PRIOR TO CONCRETE PLACEMENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		TEST EACH SOURCE
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
OBSERVE PROOF ROLLING OF SUBGRADE PRIOR TO FILL PLACEMENT				
TESTING AND EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL AS WORK PROGRESSES		X		ONE DENSITY TEST FOR EACH LIFT, DAYS OPERATION, OR 5000 SQ. FT. OF FILL AREA
INSPECT VAPOR RETARDER FOR CONFORMANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS		X		

STRUCTURAL ABBREVIATIONS

AE	AIR ENTRAINING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
C	COMPRESSION
CA	CAISSON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE(D)(OUS)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION(S)
DL	DEAD LOAD
DP	DRILLED PIER
DWG	DRAWING
EA	EACH
ECC	ECCENTRICITY
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EWEF	EACH WAY EACH FACE
FF	FINISHED FLOOR
FND	FOUNDATION
FT	FEET (FOOT)
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GL	GLUE LAMINATE TIMBER
HORZ	HORIZONTAL
HS	HEADED STUD
ID	INSIDE DIAMETER
K	KIP (1000 POUNDS)
KLF	KIPS PER LINEAR FOOT
LB, #	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MICELLANEOUS
NA	NOT APPLICABLE
NO, #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
PEMB	PRE-ENGINEERED METAL BUILDING
PJF	PREMOLDED JOINT FILLER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUND PER SQUARE FOOT
PSI	POUND PER SQUARE INCH
PT	POST TENSION(ED)
QTY	QUANTITY
R	RADIUS
REINF	REINFORCE(D)
REV	REVISED/REVISION
RH	RIGHT HAND
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
SF	SQUARE FOOT
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
T	TENSION
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROVE
T/	TOP OF
TBD	TO BE DETERMINED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	SHEAR
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WG	WORKABLE GAGE
WP	WORKING POINT
WWR	WELDED WIRE REINFORCEMENT

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES

INSPECTION ITEM REQUIRED	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	CODE REFERENCE	REMARKS
CONCRETE & REINFORCING STEEL				
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT PRIOR TO CLOSING OF FORMS AND ARRIVAL OF CONCRETE TO THE JOB-SITE		X	IBC: 1908.4 ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	
REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4 ACI 318: 26.6.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"		X		
c. INSPECT ALL OTHER WELDS	X			
OBSERVE & VERIFY PLACEMENT OF EMBEDDED BOLTS & RODS PRIOR TO CONCRETE PLACEMENT	X			
INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY UP UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		X	ACI 318: 17.8.2	
VERIFY USE OF REQUIRED MIX DESIGN		X	IBC: 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		IBC: 1908.10 ASTM: C172, C31 ACI 318: 26.4, 26.12	ADDITIONAL CYLINDERS SHALL BE MADE AS NEEDED FOR EARLY FORM REMOVAL. NOTE: TWO 6X12 OR 4X8 CYLINDERS ARE REQUIRED FOR AN ACCEPTABLE TEST.
SAMPLE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT 7 DAYS AND TWO AT 28 DAYS. THE 5TH CYLINDER SHALL BE HELD IN RESERVE	X			OBTAIN ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE STRENGTH TESTS FOR EACH CONCRETE MIX. TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
PERFORM CONCRETE STRENGTH TESTING		X		
MAINTAIN A SPREADSHEET SHOWING DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS, AND INDICATE RUNNING AVERAGE	X		ACI 318 PAR. 6.2	
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		IBC: 1908.6, 1908.7, 1908.8 ACI 318: 26.5	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	IBC: 1908.9 ACI 318: 26.5.3-26.5.5	
VERIFY THAT THE NECESSARY DESIGN STRENGTH HAS BEEN REACHED PRIOR TO THE REMOVAL OF FORMS		X		
INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES	X		ACI 318: 2610	
b. GROUTING OF BONDED PRESTRESSING TENDONS	X			
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS AND CONNECTIONS		X	ACI 318: CH. 26.8	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: CH. 26.11.2	
INSPECT CONCRETE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2(b)	
VERIFY CORRECT MATERIAL USED, INCLUDING THE USE OF A706 IN WELDED SPLICES, IF ANY		X	AWS: D1.4	
VERIFY FABRICATION/ QUALITY CONTROL PROCEDURES FOR PRECAST CONCRETE MANUFACTURER		X		VERIFY PLANT IS PCI CERTIFIED
MEASURE FLOOR FLATNESS AND LEVELNESS AS DIRECTED		X		

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REVISIONS

REV. NO.	DATE	REVISION DESCRIPTION

POST-TENSION SLAB NOTES AND SPECIAL INSPECTION SCHEDULE

OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

OTTUMWA, IA

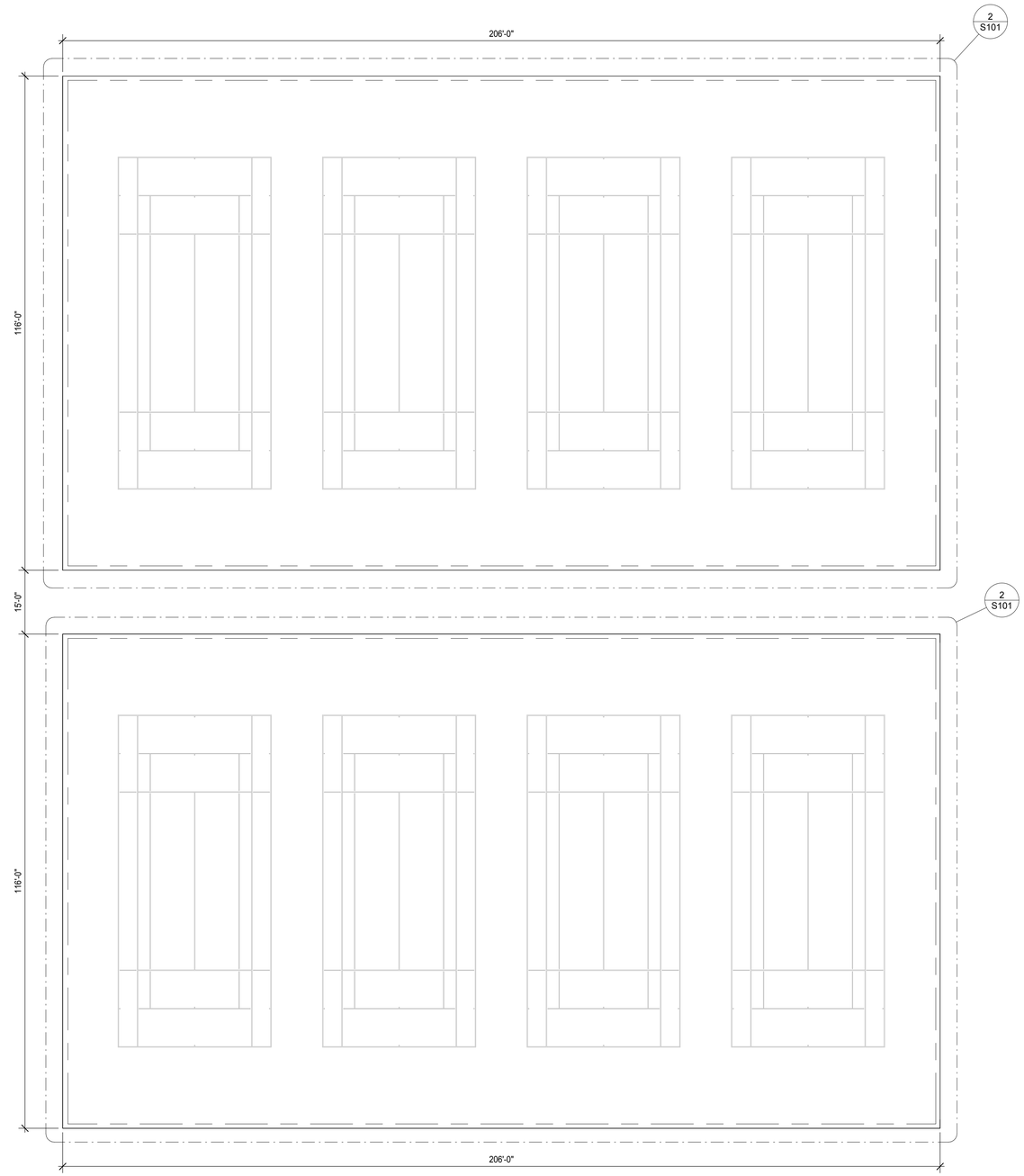
2023

drawn by: PKM
checked by: CWS
approved by: CWS
QA/QC by:
project no.: 023-05957
drawing no.:
date 10/17/2023

SHEET
S001

BID ALTERNATE #1:

1. CONTRACTOR TO PROVIDE BID ALTERNATE ELIMINATING POST-TENSIONING TENDONS.
2. REMOVE POST-TENSIONING TENDONS FROM DESIGN.
   REPLACE 5" THICK POST-TENSIONED SLAB WITH 8" THICK MILD-REINFORCED SLAB ON GRADE WITH #5 BARS AT 12" ON CENTER EACH WAY, CENTERED IN SLAB DEPTH.
3. ALL OTHER DETAILING REMAINS THE SAME.



1 SLAB PLAN - OVERALL
SCALE = 1/16" = 1'-0"

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POST-TENSION SLAB PLAN - OVERALL

OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

OTTUMWA, IA

2023

drawn by: PKM
checked by: CWS
approved by: CWS
QA/QC by:
project no.: 023-05957
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date 10/17/2023

SHEET
S100

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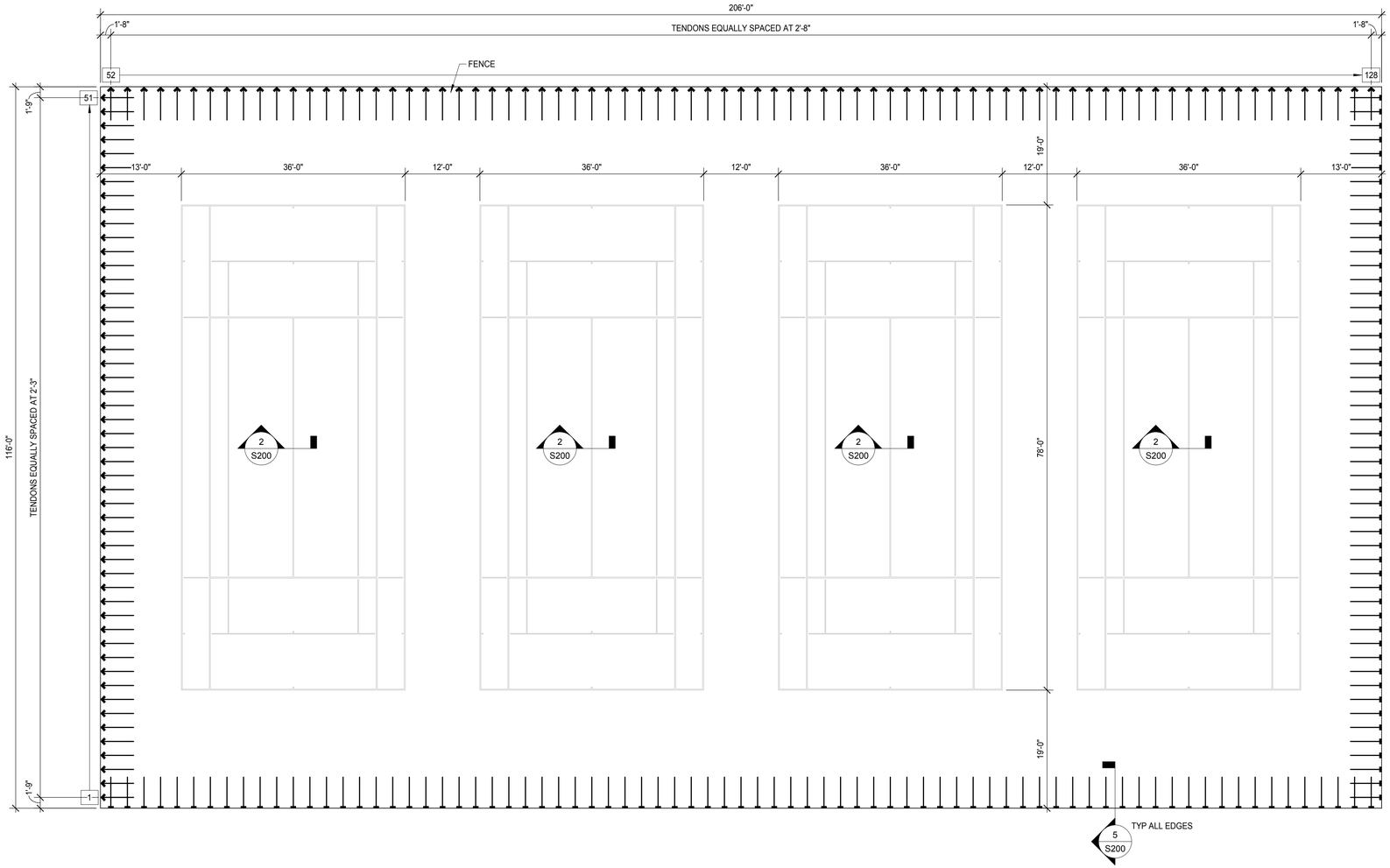


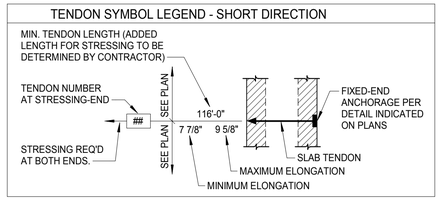
2 SLAB PLAN

SCALE = 3/32" = 1'-0"

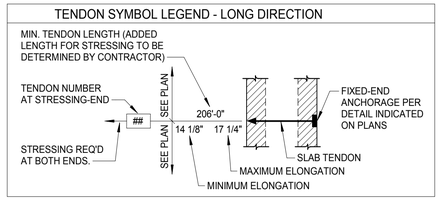
NOTES:

1. ◆ INDICATES STRESSING DIRECTION AND STRESSING END ANCHORAGE FOR 5" POST-TENSIONED SLAB ON GRADE.
2. ▬ INDICATES DEAD END ANCHORAGE FOR 5" POST-TENSIONED SLAB ON GRADE.
3. 5" POST TENSIONED SLAB ON GRADE ON (1) LAYER OF 6 MIL AND (1) LAYER OF 10 MIL POYETHYLENE SHEETING ON 6" LIME SCREENINGS BASE ON COMPACTED SUBGRADE. APPLY SHEETING LAYERS NORMAL TO ONE ANOTHER AND TAPE OR SEAL SEAMS AND LAPS.

TENDON SYMBOL LEGEND - SHORT DIRECTION



TENDON SYMBOL LEGEND - LONG DIRECTION



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POST-TENSION SLAB PLAN

OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

OTTUMWA, IA

2023

drawn by: PKM
checked by: CWS
approved by: CWS
QA/QC by:
project no.: 023-05957
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SHEET
S101

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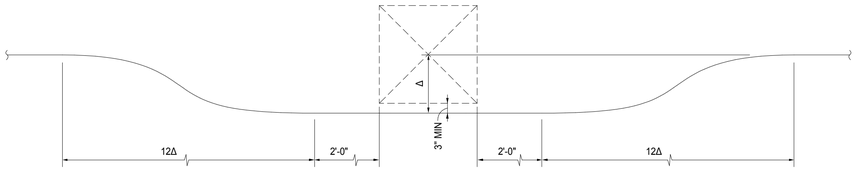
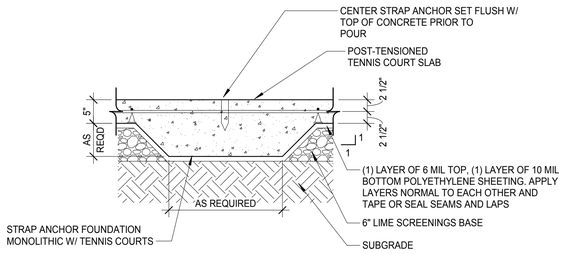


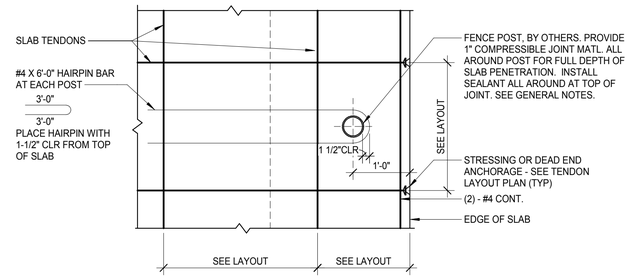
1 CURVATURE OF TENDONS AT PENETRATIONS DETAIL

SCALE = 1/2" = 1'-0"



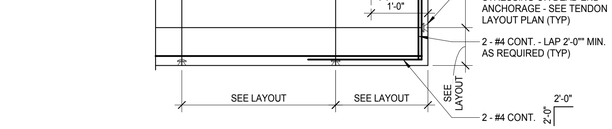
2 CENTER STRAP ANCHOR SECTION

SCALE = 3/4" = 1'-0"



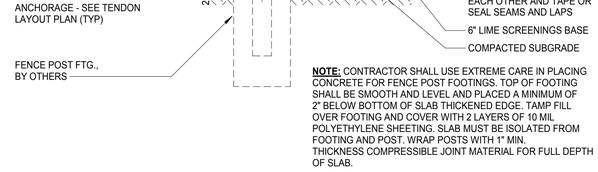
3 SLAB EDGE DETAIL

SCALE = 3/4" = 1'-0"



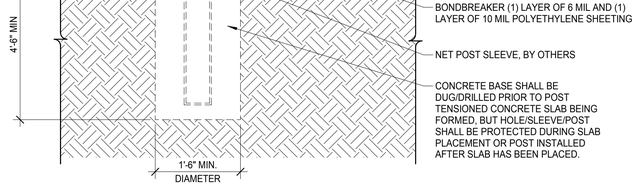
4 SLAB CORNER DETAIL - NO HAIRPIN

SCALE = 3/4" = 1'-0"



5 FENCE POST DETAIL

SCALE = 3/4" = 1'-0"



6 NET POST SECTION

SCALE = 3/4" = 1'-0"

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REVISIONS

REV. NO.	DATE	REVISION DESCRIPTION

DETAILS - POST-TENSION

OTTUMWA COMMUNITY SCHOOLS
TENNIS COURTS

OTTUMWA, IA

2023

drawn by: PKM
checked by: CWS
approved by: CWS
QA/QC by:
project no.: 023-05957
drawing no.:
date 10/17/2023

SHEET
S200

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