

# PIONEER PARK

# TENNIS COURTS REPLACEMENT

## BILLINGS, MONTANA

## FEBRUARY 16, 2024

### SHEET INDEX

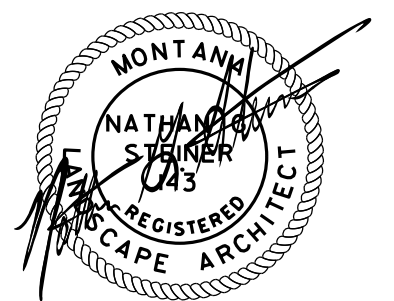
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- L1.3 GRADING PLAN
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- S1.2 SLAB & FOUNDATION DETAILS

### VICINITY MAP



#### GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES ON-SITE OR ADJACENT PROPERTY SHALL BE THE CONTRACTOR'S RESPONSIBILITY. UTILITIES ARE INDICATED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE SURVEY. ACCURACY OF INFORMATION IS NOT GUARANTEED. SERVICE LINES MAY NOT BE IN STRAIGHT LINES OR AS INDICATED ON THE PLANS.
3. ALL EXISTING IMPROVEMENTS TO REMAIN AND BE PROTECTED UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT CONSTRUCTION AND UNTIL NEW VEGETATION HAS BEEN ESTABLISHED.
5. CONTRACTOR TO PROVIDE ALL LAYOUT AND GRADE STAKING AS SPECIFIED.
6. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PREPARED AND SODDED AS SPECIFIED. A DISTURBED AREA IS DEFINED AS AN AREA WHERE CONSTRUCTION ACTIVITIES INCLUDING DEMOLITION, TRENCHING, EARTHWORK, MATERIAL STORAGE, STAGING, PARKING, OR ANY FORM OF EXCAVATION, COMPACTION, OR TRAFFIC RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUND COVER OR GRADE. CONTRACTOR SHALL REVIEW ALL OTHER CONTRACT DOCUMENTS TO DETERMINE FULL SCOPE OF POTENTIAL SITE DISTURBANCE TO BE RECLAIMED.
7. STANDARD SHEET SIZE IS 22" X 34", ADJUST DRAWING SCALE AS APPROPRIATE FOR SHEETS PRINTED AT OTHER SIZES.
8. REFER TO ALL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



PREPARED FOR:  
  
**Billings**  
 PARKS  
 AND RECREATION

PREPARED BY:

**STEINER  
 THUSEN  
 PLLC**

GOLF COURSE ARCHITECTURE  
 IRRIGATION DESIGN  
 LANDSCAPE ARCHITECTURE

1925 GRAND AVE, SUITE 105  
 P.O. BOX 22543  
 BILLINGS, MT 59104  
 406.255.5548 FAX 406.255.9855






- 1 CENTERLINE ROADWAY
- 2 EXISTING BUILDING, TYP.
- 3 EXISTING CONCRETE SIDEWALK, TYP.
- 4 FENCE, TYP.
- 5 BOLLARD, TYP.
- 6 SIGN, TYP.
- 7 EXISTING CURB AND GUTTER
- 8 UTILITY POLE, TYP.
- 9 LIGHT POLE, TYP.
- 10 UNDERGROUND POWER, TYP.
- 11 ELECTRIC UTILITY METER
- 12 GUY WIRE
- 13 IRRIGATION LINE
- 14 IRRIGATION CONTROL BOX, TYP.
- 15 SPRINKLER HEAD
- 16 16" WATER MAIN
- 17 WATER VALVE, TYP.
- 18 3" WATER SERVICE
- 19 NATURAL GAS PIPELINE
- 20 ELECTRIC MANHOLE
- 21 DISC GOLF CAGE
- 22 HORSE SHOE AREA
- 23 GRILL, TYP.
- 24 STORM INLET
- 25 DISC GOLF TEE BOX / CONCRETE PAD

REVISIONS				
NO.	DESCRIPTION	DATE	BY	CHECKED BY
1	#	#	#	#
2	#	#	#	#
3	#	#	#	#
4	#	#	#	#
5	#	#	#	#
6	#	#	#	#

**EXISTING TOPOGRAPHY**



608 NORTH 29TH STREET (406) 384-0080  
BILLINGS, MT 59101 performance-ec.com

KT  
DESIGNED BY

JW  
DRAWN BY

1/6/24  
DATE

QUALITY ASSURANCE

TJK  
CHECKED BY

1/6/24  
DATE

**PIONEER PARK TENNIS COURT REPLACEMENT**

3RD STREET WEST BILLINGS, MT 59101

**EXISTING CONDITIONS**

**SITE MAP**

PROJECT NUMBER  
23-136

SHEET NUMBER  
1 OF 1

DRAWING NUMBER  
**C1.00**

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# PIONEER PARK TENNIS COURTS REPLACEMENT DEMOLITION PLAN

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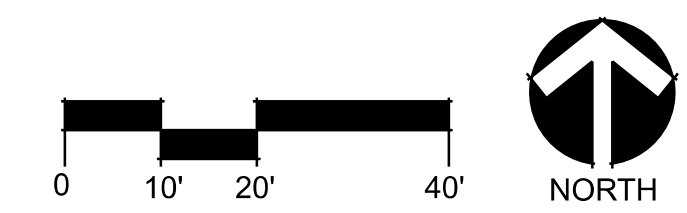
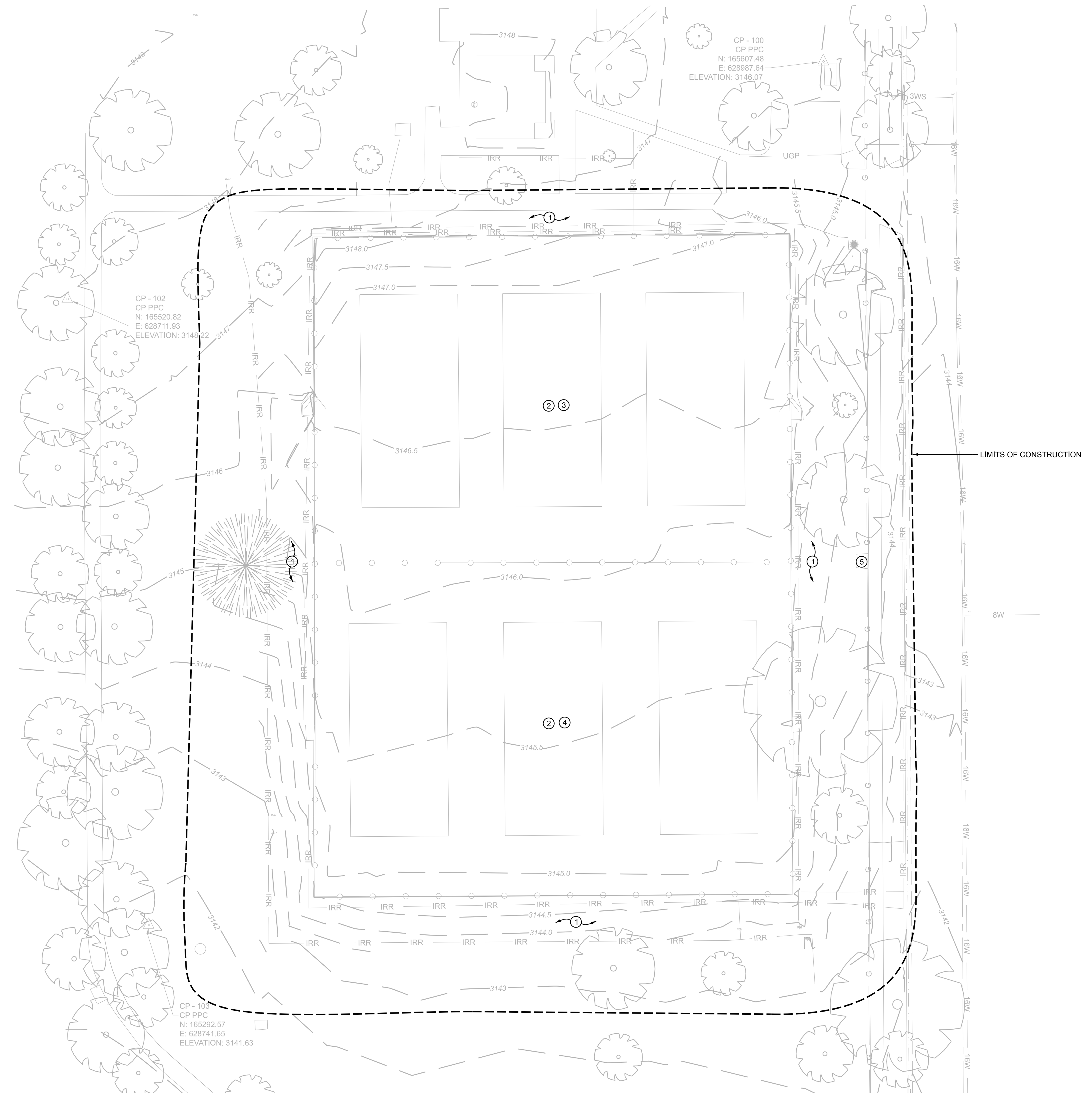
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DATE: 2/16/24  
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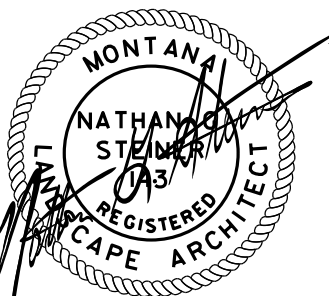
SHEET  
**L1.1**

- LEGEND:**
- G — GAS LINE
  - UGP — UNDERGROUND POWER
  - 3WS — WATER LINE
  - 16W — WATER MAIN
  - IRR — IRRIGATION LINE (MAINLINE AND LATERAL)
  - SPRINKLER HEAD
  - 3152.228 EXISTING SPOT GRADE
  - 3146 --- EXISTING CONTOUR (6" INTERVAL ON COURT, 1' ELSEWHERE)
  - ○ EXISTING FENCE

- NOTES:**
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES ON-SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
  2. UTILITIES ARE INDICATED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE SURVEY. ACCURACY OF INFORMATION IS NOT GUARANTEED. SERVICE LINES MAY NOT BE IN STRAIGHT LINES OR AS INDICATED ON THE PLANS.
  3. ALL EXISTING IMPROVEMENTS TO REMAIN AND BE PROTECTED UNLESS NOTED OTHERWISE. REPAIR BACK TO ORIGINAL CONDITION IF DAMAGE OCCURS DURING CONSTRUCTION.
  4. ALL TREES TO REMAIN AND BE PROTECTED. WORK WITHIN THE DRIPLINE SHALL BE MINIMIZED.
  5. PROVIDE ALL DEMOLITION INCIDENTAL TO OR REQUIRED FOR NEW CONSTRUCTION WHETHER OR NOT IT IS SPECIFICALLY NOTED. THIS INCLUDES ALL APPURTENANCES OF ITEMS INDICATED TO BE REMOVED. REVIEW ALL DRAWINGS TO DETERMINE EXTENT OF DEMOLITION WORK TO BE PERFORMED.
  6. SALVAGEABLE TOPSOIL TO BE REMOVED AND STOCKPILED FOR USE IN RESTORATION EFFORTS.
  7. ALL DEMOLITION MATERIAL TO BE PROPERLY DISPOSED OF OFF-SITE.
  8. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- KEY NOTES:**
- ① LOCATE ALL IRRIGATION VALVE BOXES, LATERALS AND SPRINKLER HEADS PRIOR TO BEGINNING WORK. ALL IRRIGATION EQUIPMENT TO REMAIN AND BE PROTECTED, UNLESS NOTED OTHERWISE.
  - ② REMOVE EXISTING ASPHALT SURFACING (APPROX. 3"), FENCE, POSTS & FOOTINGS, NET POSTS, WOODEN EDGING, CONCRETE FLATWORK, ETC. AND ALL APPURTENANCES ASSOCIATED WITH THE EXISTING TENNIS COURTS.
  - ③ REMOVE APPROXIMATELY 9" (NORTH COURTS) OF EXISTING GRAVEL BASE MATERIAL AND STOCKPILE FOR REUSE AS SPECIFIED.
  - ④ REMOVE APPROXIMATELY 18" (SOUTH COURTS) OF EXISTING GRAVEL BASE MATERIAL AND STOCKPILE FOR REUSE AS SPECIFIED.
  - ⑤ SAW CUT AND REMOVE EXISTING CONCRETE APPROACH.





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# PIONEER PARK TENNIS COURTS REPLACEMENT LAYOUT & MATERIALS PLAN

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GOLF COURSE ARCHITECTURE  
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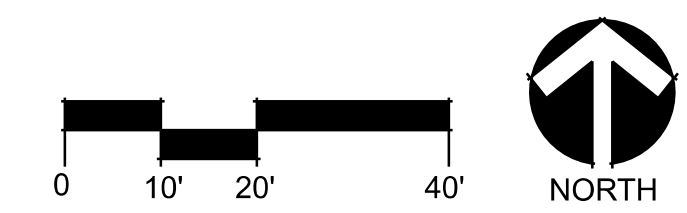
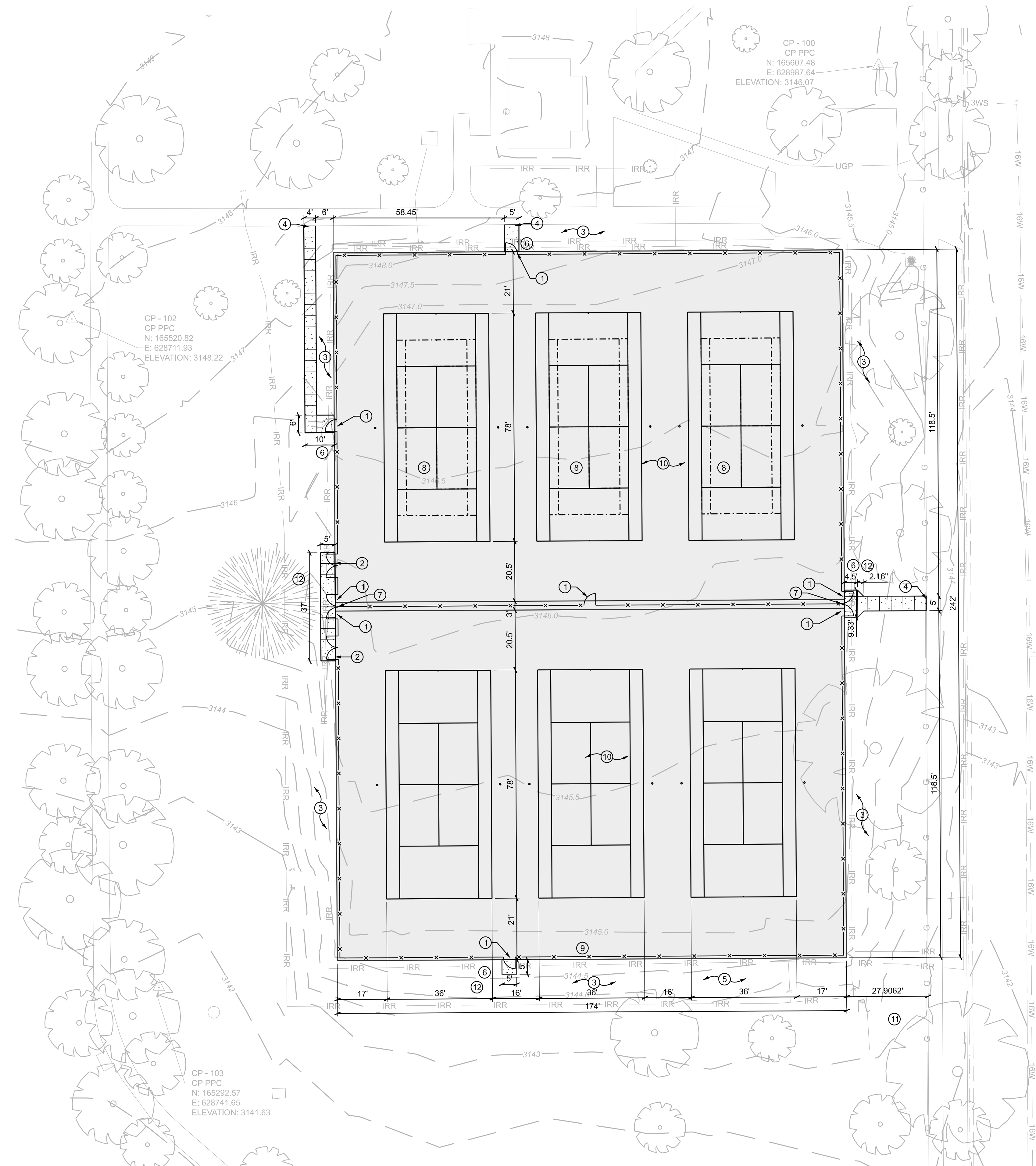
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DATE: 2/16/24  
CHECKED BY: NGS  
DATE: 2/16/24  
REV: -  
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FILE: L1.2\_LAYOUT & MATERIALS.DGN

SHEET  
**L1.2**

- LEGEND:**
- G — GAS LINE
  - UGP — UNDERGROUND POWER
  - 3WS — WATER LINE
  - 16W — WATER MAIN
  - IRR — IRRIGATION LINE (MAINLINE AND LATERAL)
  - SPRINKLER HEAD
  - 3152.228 EXISTING SPOT GRADE
  - 3146 — EXISTING CONTOUR (6" INTERVAL ON COURT, 1' ELSEWHERE)
  - EXISTING FENCE
  - x — x — 10' HIGH CHAINLINK FENCE AS SPECIFIED, SEE 6/L1.4 & 7, L1.4.
  - POST-TENSION CONCRETE SLAB, SEE STRUCTURAL.
  - ▨ CONCRETE WALKWAY: 4" OF CONCRETE OVER 4" OF 1-1/2" MINUS COMPACTED AGGREGATE AS SPECIFIED, SEE 4/L1.4.

- NOTES:**
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES ON-SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
  2. EXISTING AGGREGATE BASE AT TENNIS COURT TO BE REMOVED, STOCKPILED, REPLACED, AND COMPACTED AS SPECIFIED.
  3. ADJUST FULL CIRCLE SPRINKLERS SPRAYING TOWARD TENNIS COURTS TO PREVENT OVSERSPRAY ONTO COURTS. ADJUST SPRINKLERS ADJACENT TO CONCRETE SLAB TO PREVENT BACKSPRAY ON COURTS.
  4. NOT ALL SPRINKLER LOCATIONS SHOWN ON PLAN. FIELD VERIFY.
  5. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- KEY NOTES:**
- ① 4' WIDE WALK-THROUGH GATE.
  - ② 8' WIDE SERVICE GATE. PROVIDE IN-GROUND KEEPER AS REQUIRED WHEN CLOSED.
  - ③ LOCATE ALL SPRINKLERS AND PIPING, RAISE OR LOWER AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. ADJUST SPRINKLERS SO THEY ARE 36" MIN. FROM EDGE OF CONCRETE ON SOUTH END.
  - ④ CONNECT TO EXISTING CONCRETE WITH DOWELS SIMILAR TO NEW CONSTRUCTION, SEE 4/L1.4.
  - ⑤ ADJUST IRRIGATION LATERALS TO BE 36" MIN. AWAY FROM TENNIS COURT SLABS AND 18" MIN. AWAY FROM CONCRETE SIDEWALKS.
  - ⑥ INSTALL EXISTING AND NEW IRRIGATION PIPE THROUGH SLEEVE UNDER CONCRETE.
  - ⑦ 4' GATES TO CLOSE ON SHARED POST.
  - ⑧ PROVIDE BLENDED YOUTH COURT STRIPING ON NORTH COURTS. SEE 2, L1.4.
  - ⑨ NEW POST TENSION SLAB WILL EXTEND 2' BEYOND EXISTING COURTS SLAB.
  - ⑩ INSTALL GEOTEXTILE FABRIC AT POST TENSIONED CONCRETE SLABS PRIOR TO REPLACING GRAVEL BASE. COMPACT GRAVEL BASE AS SPECIFIED.
  - ⑪ PROJECT SIGN, SEE DETAIL 8/L1.4.
  - ⑫ ADJUST ROUTING OF IRRIGATION LATERALS 12"- 18" FROM EDGE OF WALKWAY. ADJUST SPRINKLERS SO THEY ARE APPROXIMATELY 6" FROM EDGE OF WALKWAY.





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# PIONEER PARK TENNIS COURTS REPLACEMENT GRADING PLAN

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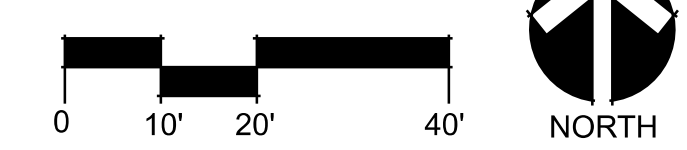
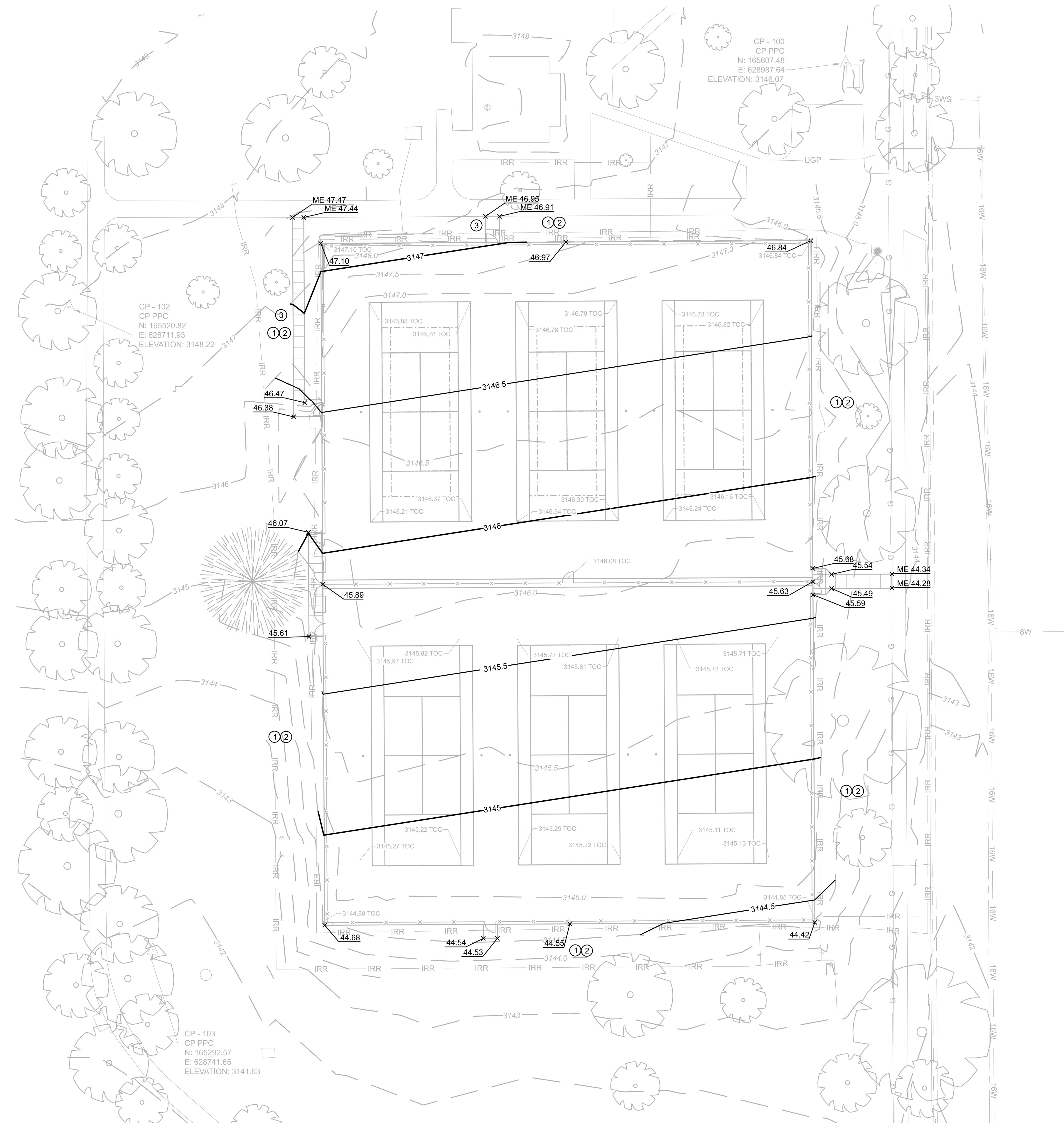
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CHECKED BY: NGS  
DATE: 2/16/24  
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FILE: L1.3 GRADING.DGN

SHEET  
L1.3

- LEGEND:**
- G GAS LINE
  - UGP UNDERGROUND POWER
  - 3WS WATER LINE
  - 16W WATER MAIN
  - IRR IRRIGATION LINE (MAINLINE AND LATERAL)
  - SPRINKLER HEAD
  - 3152.228 EXISTING SPOT GRADE
  - 3146 EXISTING CONTOUR (6" INTERVAL ON COURT, 1' ELSEWHERE)
  - EXISTING FENCE
  - 3152 PROPOSED CONTOUR (6" INTERVAL ON COURT, 12" ELSEWHERE)
  - 53.32 FINISH SPOT GRADE
  - ME MATCH EXISTING GRADE

- NOTES:**
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES ON-SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
  2. STRIP SOD AND TOPSOIL AS REQUIRED TO ACCOMMODATE CONSTRUCTION.
  3. PROVIDE 1.5% CROSS SLOPE ON WALKWAYS.
  4. ALL DISTURBED AREA SHALL BE RESTORED WITH LIKE MATERIALS. (CRUSHED AGGREGATE, SOD, ETC.)
  5. THE TRANSITION BETWEEN EXISTING LAWN AREAS AND RESTORED LAWN AREAS SHALL BE SMOOTH WITHOUT ABRUPT EDGES, ETC.
  6. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH SOD. USE SOD CUTTER TO CREATE SMOOTH AND UNIFORM TRANSITION FROM EXISTING TO NEW SOD.
  7. FINISH GRADE ALONG CONCRETE TO BE 1-1/2" BELOW TOP OF CONCRETE PRIOR TO INSTALLING SOD. FINISH GRADE WHERE NO SOD WILL BE INSTALLED SHALL BE 1" BELOW TOP OF CONCRETE.
  8. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- KEY NOTES:**
- 1 TIE BACK TO EXISTING GRADES AT 15:1 SLOPE MAX.
  - 2 RAISE IRRIGATION HEADS AS REQUIRED TO ACCOMMODATE NEW GRADES.
  - 3 WALKWAY SLOPES SHALL MEET THE FOLLOWING ADA REQUIREMENTS:  
-LONGITUDINAL SLOPE: 1:20 MAX. (5%)  
-CROSS SLOPE: 1:48 MAX. (2%)





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**PIONEER PARK  
TENNIS COURTS REPLACEMENT  
DETAILS**

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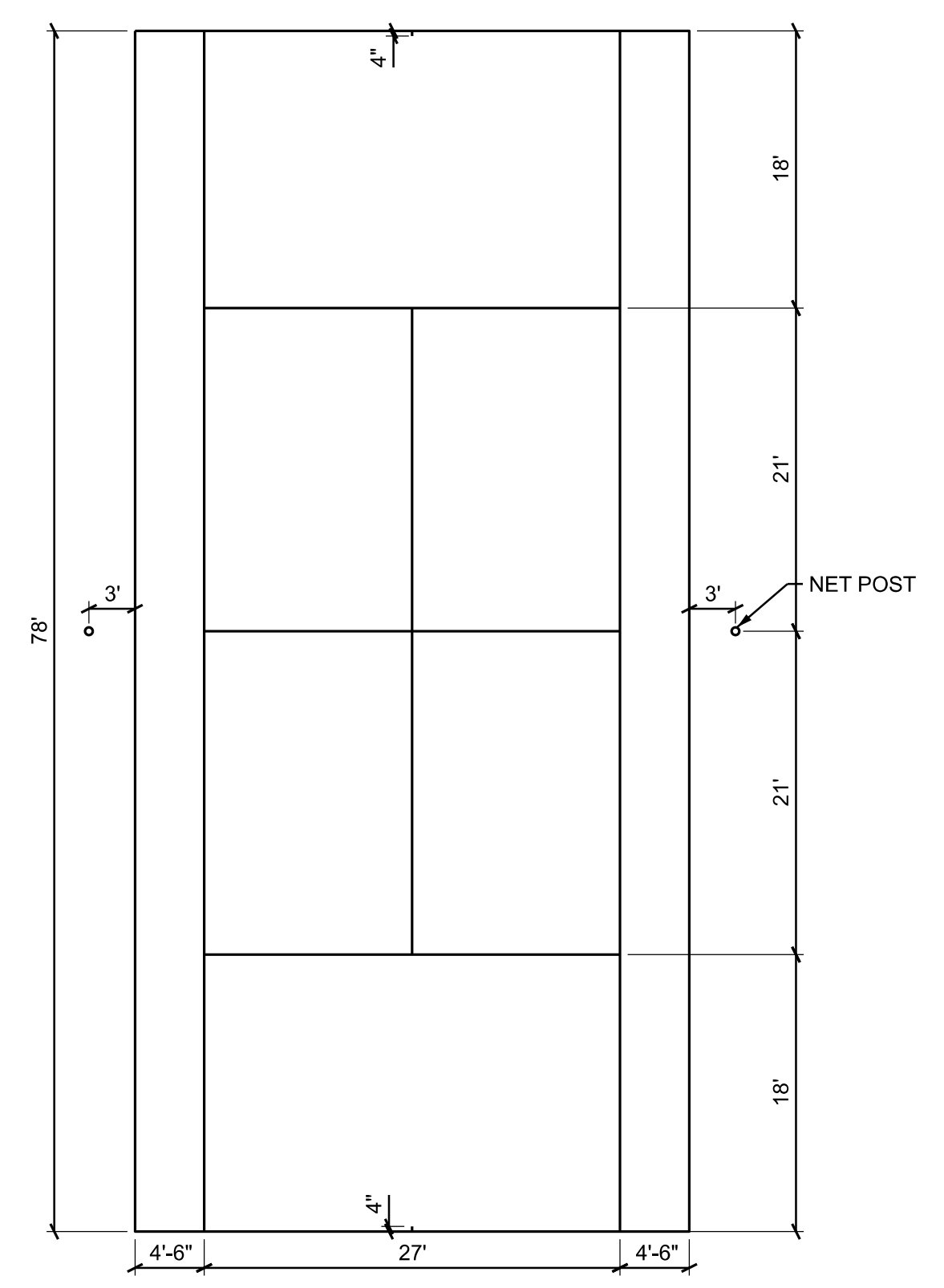
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PLLC

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IRRIGATION DESIGN  
LANDSCAPE ARCHITECTURE

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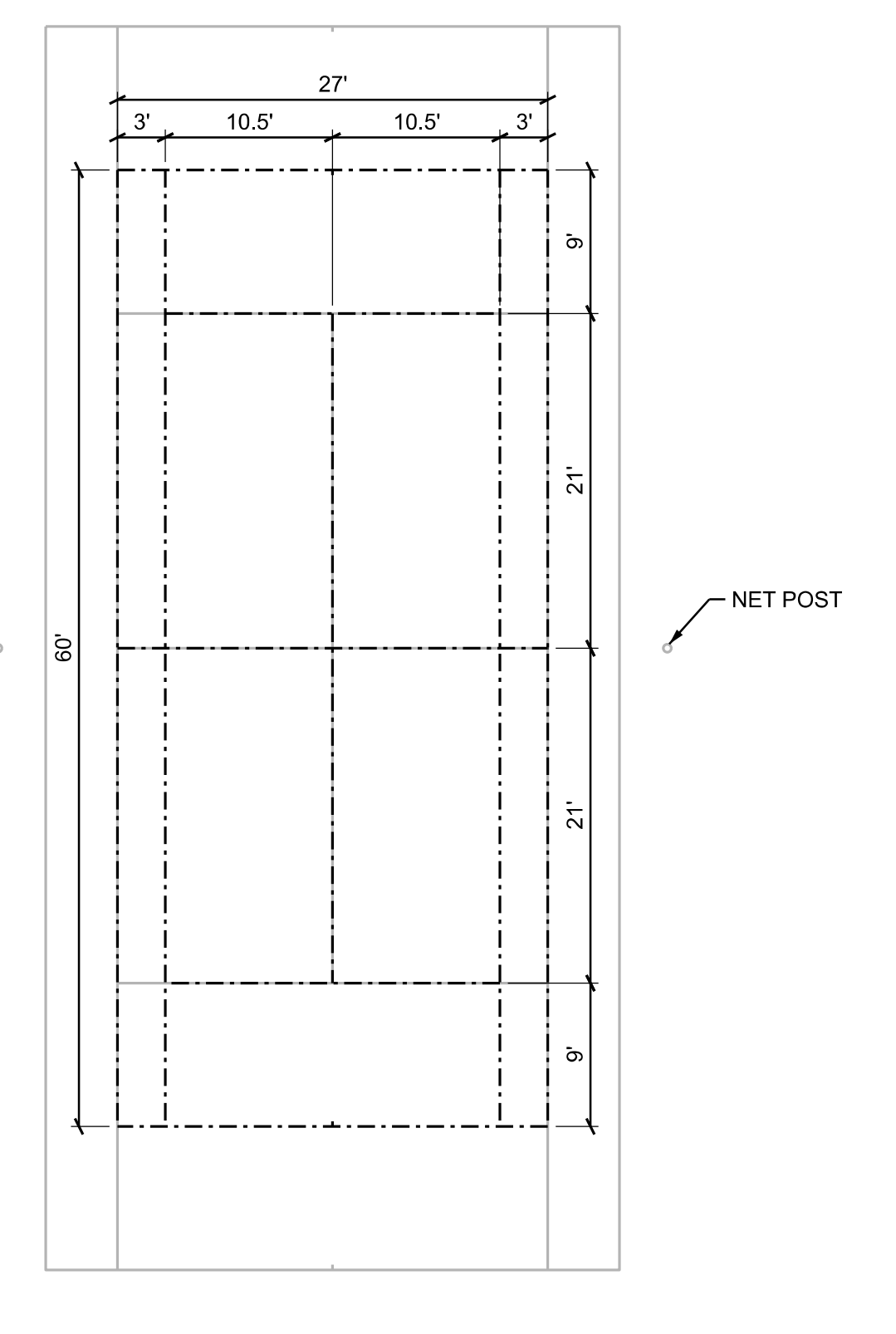
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FILE: L1.4 DETAILS.DGN

SHEET  
**L1.4**



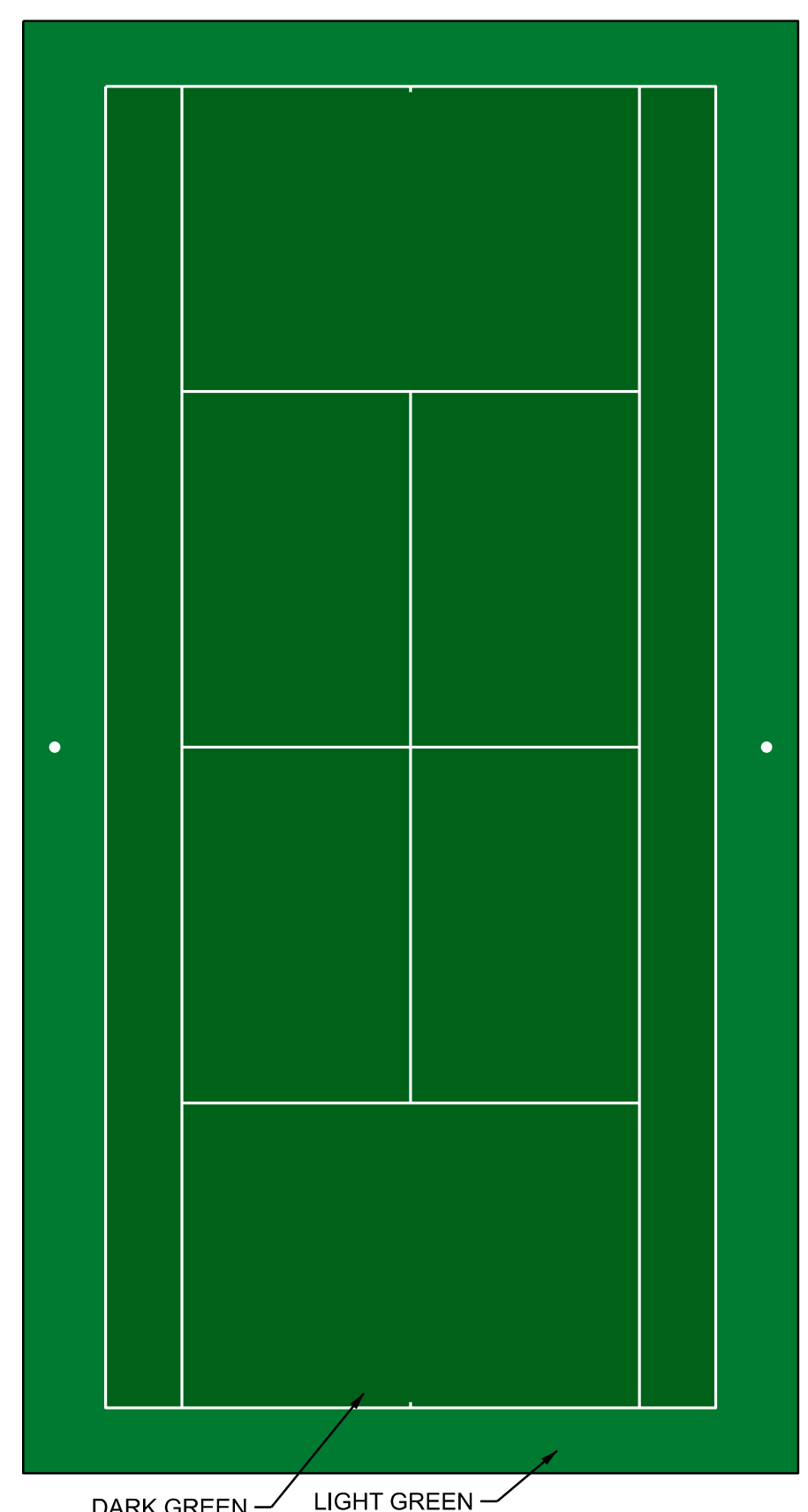
**NOTES:**  
1. TENNIS COURT SIZE TO BE AS SHOWN (36' X 78').  
2. TENNIS DIMENSIONS SHALL BE PER USTA REGULATIONS.  
3. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINES.  
4. ALL STRIPING SHALL BE 2" WIDE.  
5. COLOR FOR MAIN TENNIS LINES TO BE WHITE.

**1 TENNIS COURT STRIPING** NOT TO SCALE



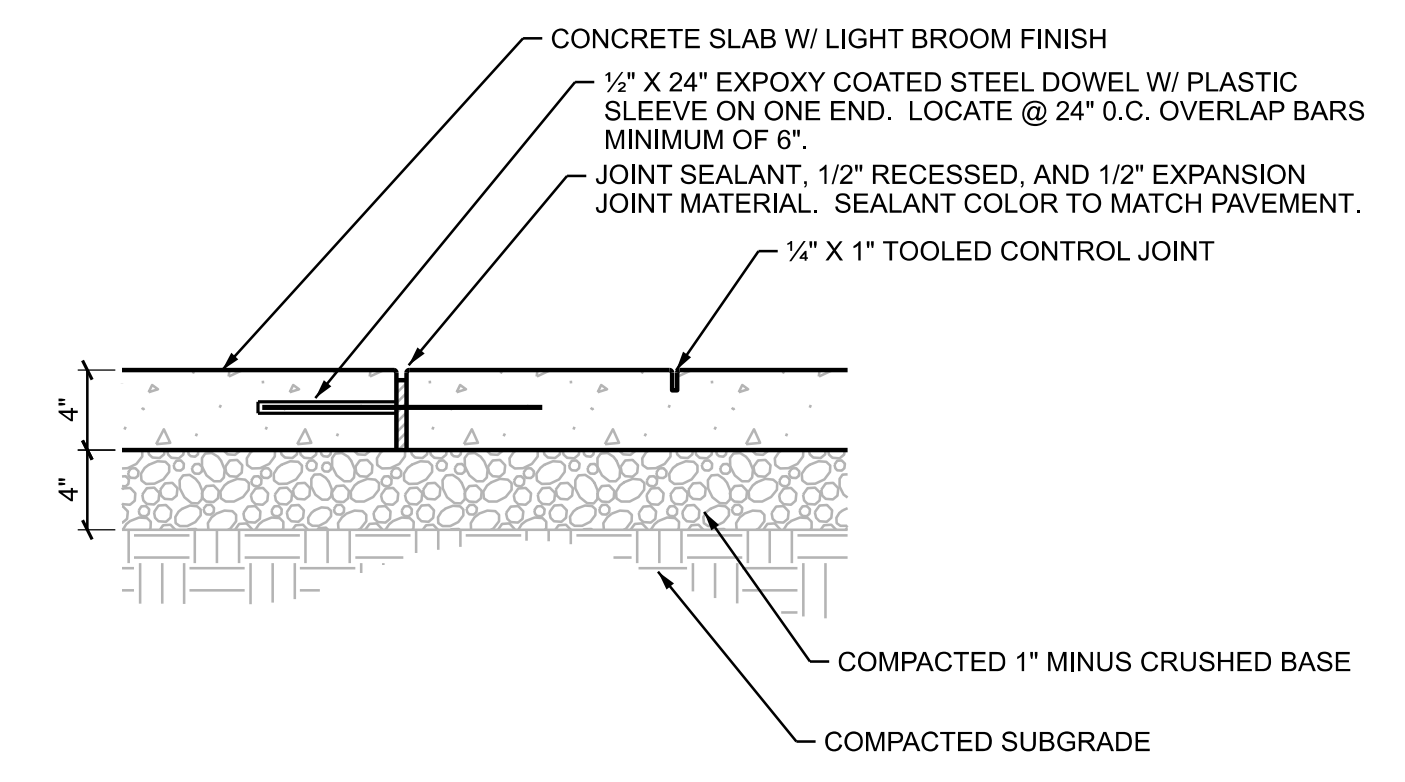
**NOTES:**  
1. YOUTH TENNIS COURT SIZE TO BE AS SHOWN. (27' X 60')  
2. TENNIS DIMENSIONS SHALL BE PER USTA REGULATIONS.  
3. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF LINES.  
4. ALL STRIPING SHALL BE 2" WIDE.  
5. COLOR FOR YOUTH TENNIS LINES TO BE BLENDED.

**2 TENNIS COURT W/ YOUTH BLENDED LINES STRIPING** NOT TO SCALE



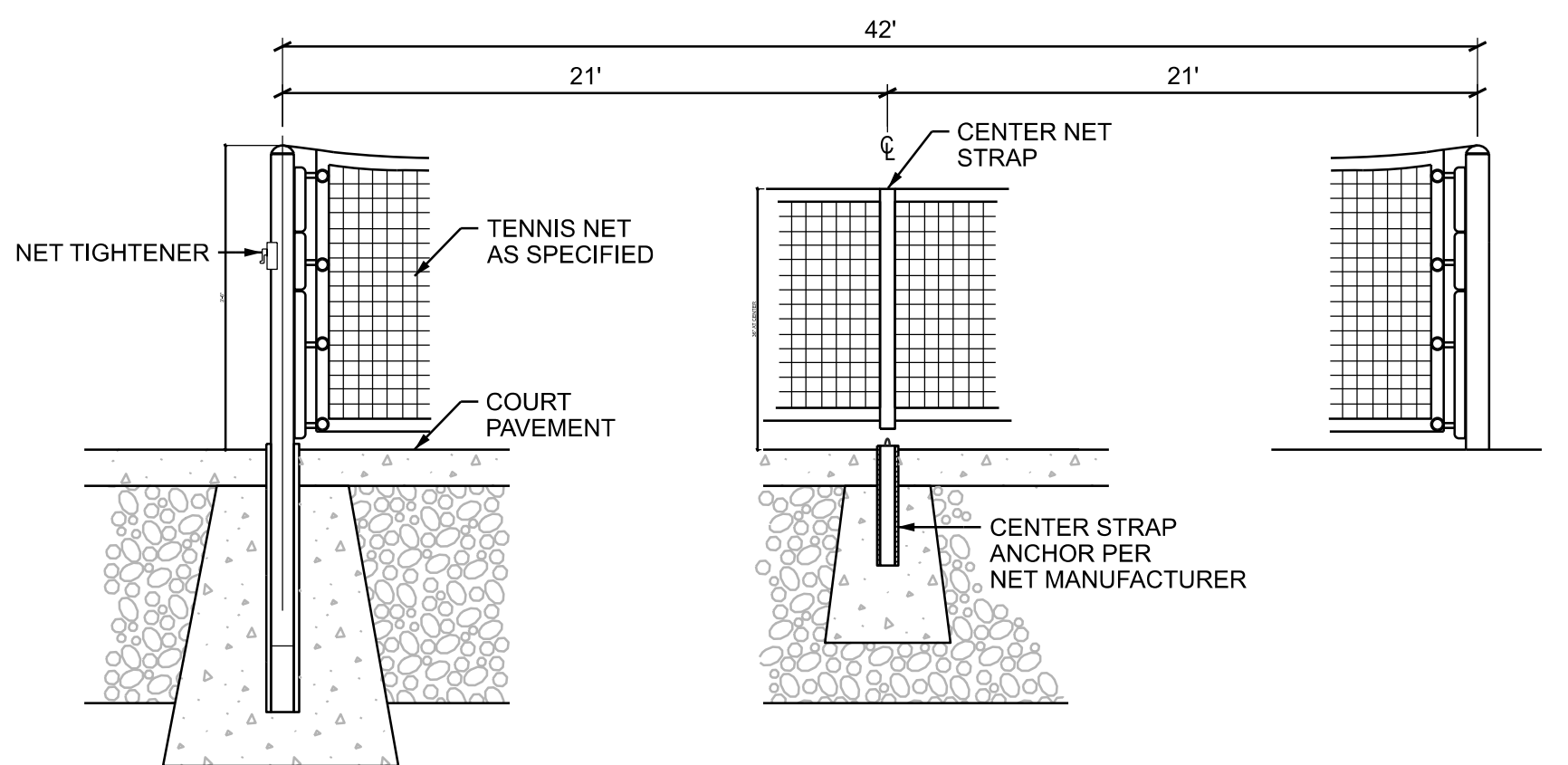
**NOTES:**  
1. SURFACING MATERIAL SHALL NOT BE APPLIED UNTIL WRITTEN APPROVAL HAS BEEN PROVIDED FOR COURT COLOR SCHEME SUBMITTAL.

**3 TENNIS COURT COLOR SCHEME** NOT TO SCALE



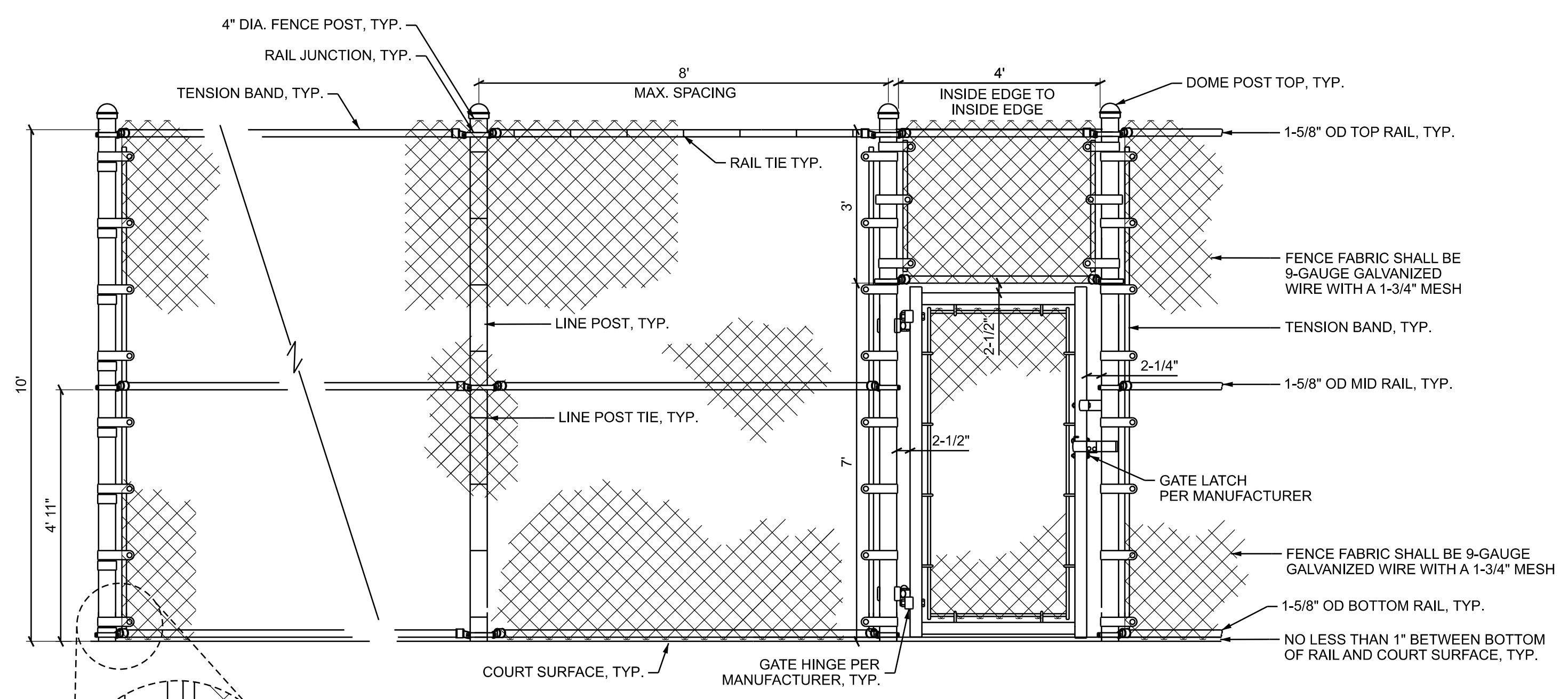
**NOTES:**  
1. SAWCUT JOINTS ARE NOT ALLOWED.  
2. DOWELS REQUIRED AT CONNECTION TO EXISTING WALKWAY AND POST TENSION SLAB.

**4 CONCRETE FLATWORK** NOT TO SCALE



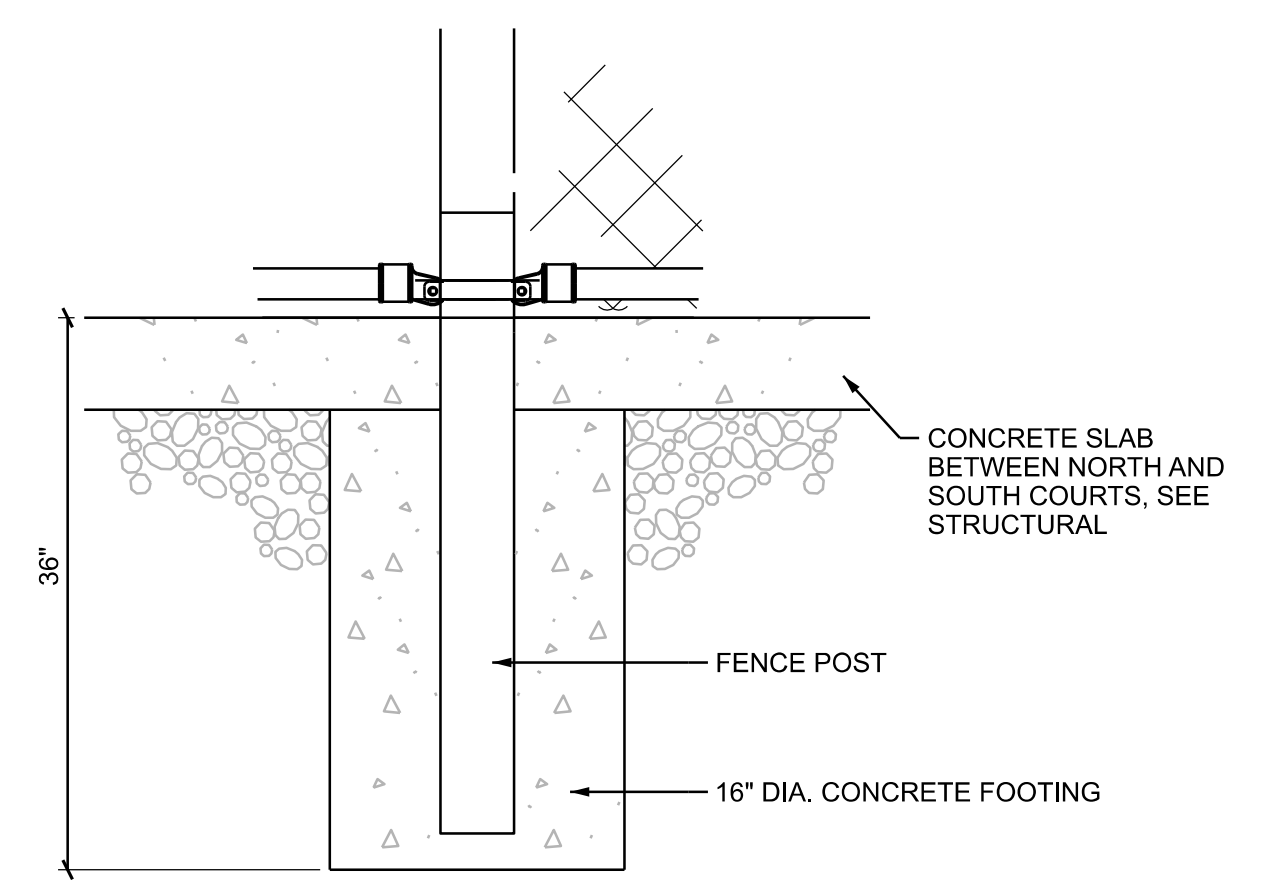
**NOTES:**  
1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.

**5 POST & NET DETAIL** NOT TO SCALE

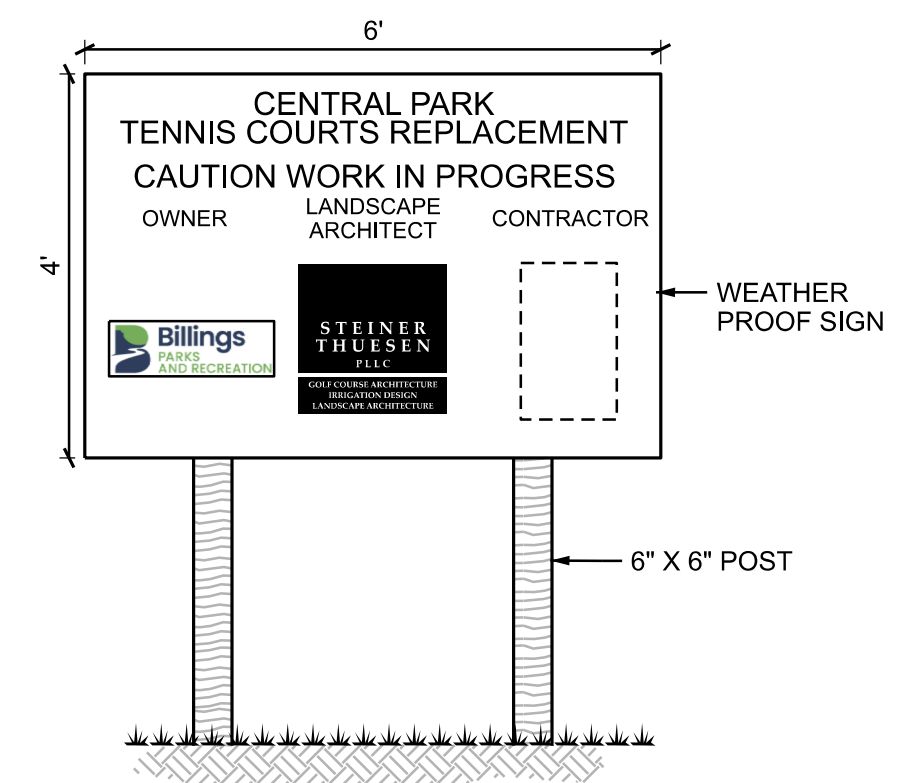


**NOTES:**  
1. ALL RAIL JOINTS, HINGES, LATCHES, TENSION BANDS AND POST CAPS PER MANUFACTURER.  
2. PERIMETER POSTS SHALL BE STABBED INTO THICKENED EDGE SLAB AND NOT EXTEND BEYOND THE CONCRETE EXCEPT AS NOTED OTHERWISE. SEE STRUCTURAL.  
3. POSTS AT CENTER DIVIDING STRIP SHALL BE IN STANDARD FOOTINGS. SEE 7/L1.4.  
4. REFER TO SPECIFICATIONS FOR INFORMATION REGARDING FENCING ALTERNATE.  
5. FABRIC TO BE INSTALLED ON THE COURT SIDE OF THE FENCE.

**6 FENCING DETAIL** NOT TO SCALE

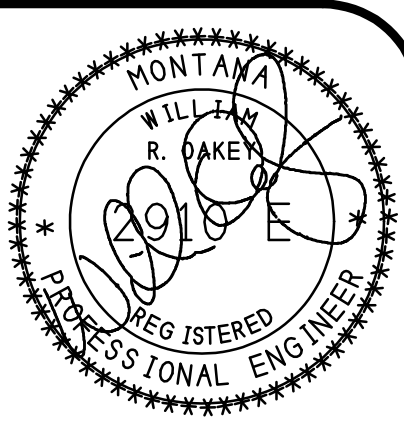


**7 FENCE POST FOOTING AT CENTER DIVIDING STRIP** NOT TO SCALE



**NOTES:**  
1. PROVIDE COLOR SHOP DRAWING FOR APPROVAL.  
2. BACKGROUND TO BE WHITE.  
3. PROJECT TITLE TO BE GREEN.  
4. "OWNER", "LANDSCAPE ARCHITECT", AND "CONTRACTOR" TO BE BLACK.  
5. LOGOS TO BE FULL COLOR.  
6. LOCATION TO BE DETERMINED.  
7. REMOVE AT END OF PROJECT.

**8 PROJECT SIGN** NOT TO SCALE



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# PIONEER PARK TENNIS COURTS REPLACEMENT SLAB PLAN

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GOLF COURSE ARCHITECTURE  
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DRAWN BY: WJO  
DATE: 2-16-24  
CHECKED BY: WRO  
DATE: 2-16-24  
REV: -  
FILE: -

SHEET  
**S11**

GRADING NOTES:  
AFTER REMOVAL OF THE EXISTING ASPHALT SURFACE, EXCAVATE THE EXISTING GRANULAR SUBBASE, SHAPE THE SUBGRADE, INSTALL THE GEO-TEXTILE AND SHAPE THE AGGREGATE SURFACE TO FIT THE REQUIRED GRADES. THIS WILL REQUIRE ADDING AMOUNTS OF GRANULAR MATERIAL. THE FINAL SURFACE SHALL BE PROOF ROLLED AND COMPACTED TO 95% ASTM D698. AFTER THIS IS COMPLETED, THE 2 LAYERS OF POLYETHYLENE SHALL BE PLACED.

SEE ARCH FOR SIDEWALKS, GATES, FENCING AND RAMP DETAILS.

POST TENSION CABLES, SEE DETAILS THIS SHEET AND 51.2

2 & NET HOLDDOWN  
TYP 6 PLACES

5" REINFORCED CONCRETE SLAB

SEE ARCH FOR NEW DETAIL DIMENSIONS

3 NET POSTS  
TYP 12 PLACES

SEE ARCH FOR NEW DETAIL DIMENSIONS

2 & NET HOLDDOWN  
TYP 6 PLACES

POST TENSION CABLES, SEE DETAILS THIS SHEET AND 51.2

3 NET POSTS  
TYP 12 PLACES  
1 OF 4 EXT LOCATIONS w/ EXP MATERIAL

BREAK LINES IN THICKENED SLAB EDGE

242'-0"

119'-6"

119'-6"

49 SPACES (50 CABLES) @ 2.39' - 117.1'

49 SPACES (50 CABLES) @ 2.39' - 117.1'

59 SPACES (60 CABLES) @ 2.9' - 174'-0"

174'-0"

3'-0" VERIFY

1.2'

1.2'

1.45'

8 51.2

1 51.2

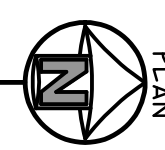
1 51.2

1 51.2

THE DRAWING ABOVE MAY NOT BE USED DIGITALLY TO DIMENSION OR LOCATE STRUCTURAL MEMBERS

## COURT SLAB LAYOUT AND DETAILS

SCALE: 1" = 10'



SEE ARCH/CIVIL FOR COURT DETAILS; STRIPPING, GRADES ETC.

