

LNHS BASEBALL & SOFTBALL UPGRADES

Liberty Public Schools 53

1000 NE 104th Street
Liberty, MO 64068

CONSTRUCTION DOCUMENT SET

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INDEX OF DRAWINGS

SCOPE OF WORK - SUMMARY

VICINITY MAP

DESIGN TEAM

GENERAL	
G000	COVER SHEET
DEMOLITION - CIVIL	
DC101	DEMOLITION PLAN
CIVIL	
C100	CIVIL INFORMATION SHEET
C101	EXISTING CONDITIONS PLAN
C102	UTILITY PLAN
C103	GRADING & PAVING PLAN
C104	EROSION CONTROL PLAN
C200	DETAILS
ARCHITECTURAL SITE	
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AS111	ARCHITECTURAL SITE PLAN - BASEBALL
AS112	ARCHITECTURAL SITE PLAN - SOFTBALL
AS681	SCHEDULES & CONCRETE DETAILS
STRUCTURAL	
S001	GENERAL NOTES, LEGENDS, & SPECIAL INSPECTIONS
S101	FOUNDATION PLAN - OVERALL
S530	TYPICAL CONCRETE DETAILS
MECHANICAL/ELECTRICAL	
ME101	SYMBOLS & ABBREVIATION - MECH AND ELEC
ME201	MECH & ELEC - SITE PLAN

THE SCOPE OF THIS PROJECT IS TO CONVERT EXISTING BASEBALL AND SOFTBALL PLAYING FIELDS FROM NATURAL GRASS TO SYNTHETIC TURF. RELATED TO THE CONVERSION WILL BE NEW PERIMETER FENCING AND BACKSTOP NETTING. NO VERTICAL CONSTRUCTION IN THE TRADITIONAL SENSE WILL TAKE PLACE WITH THIS WORK. THERE ARE A FEW VERTICAL ELEMENTS (POLES) WHICH WILL BE SET AS PART OF THIS WORK.

NO SPECTATOR SEATING CAPACITY WILL BE AFFECTED AS PART OF THIS WORK.

ALTERNATES

ALTERNATE No. 1 (23023.00 LHS) - ADD COVERED SCORER'S BOX AT SOUTH END OF HOME DUGOUT
ALTERNATE No. 2 (23047.00 LNHS) - RETROFIT SCORER'S BOX INTO VISITING BASEBALL AND SOFTBALL DUGOUT
ALTERNATE No. 3 (23047.00 LNHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING AND ASSOCIATED FOOTINGS
ALTERNATE No. 4 (23047.00 LNHS) - ADD CHAMPIONWALL AND ASSOCIATED FOOTINGS AT BASEBALL FIELD IN LIEU OF 8'-0" BLACK PVC FENCE
ALTERNATE No. 5 (23023.00 LHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING DUGOUTS AND ASSOCIATED FOOTINGS



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CONSTRUCTION DOCUMENTS

LNHS Baseball & Softball Upgrades
Liberty Public Schools 53
1000 NE 104th Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



The Professional Seal and Stamp is the seal of approval for the architect and shall remain in the possession of the architect. It shall not be used for any other project or for any other purpose. It shall not be used for any other project or for any other purpose.

JOB NO: 23047
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G000



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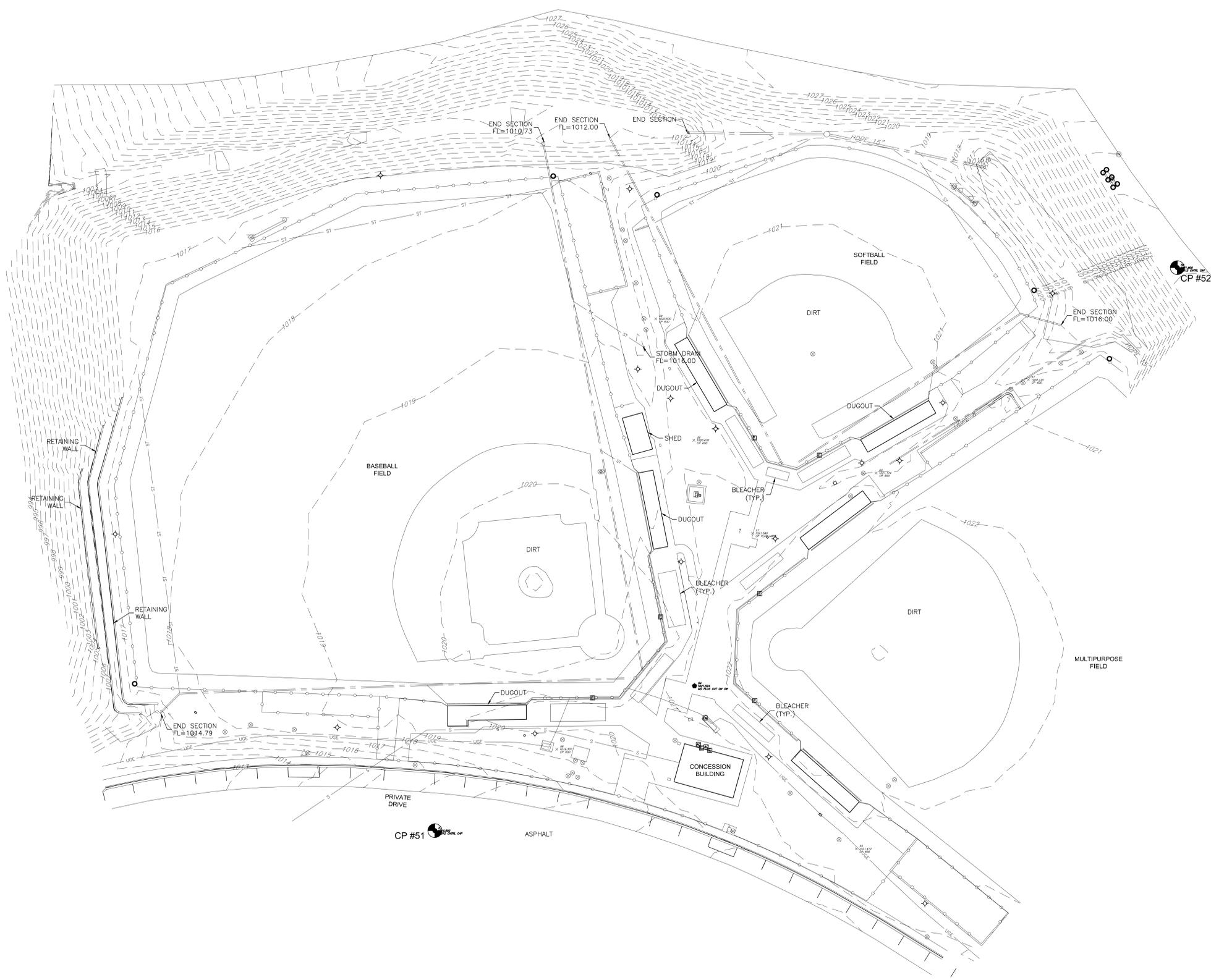
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CONTROL POINTS

- CP #50 MS PLUS CUT SW COR CI
N=1135763.64, E=2808493.36,
ELEV.=1020.11
 - CP #51 SIB12 CNTRL CAP
N=1135916.74, E=2808104.75,
ELEV.=1016.89
 - CP #52 SIB12 CNTRL CAP
N=1136307.21, E=2808614.63,
ELEV.=1031.90
 - CP #53 MS PLUS CUT NORTH COR ADA
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ELEV.=1014.13
- SEE PLAN FOR LOCATIONS.

LNHS Baseball & Softball Upgrades
Liberty Public Schools 53
1000 NE 104th Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



BRADEN L. TAYLOR
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C101

EROSION CONTROL LEGEND



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LNHS Baseball & Softball Upgrades
Liberty Public Schools #3
1000 NE 104th Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



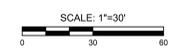
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LIC# 2021001896

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DATE: 07-12-23

C104

FESCUE TURF NOTES:

- INSTALL FESCUE TURF SOD PER NOTES BELOW.
- SUBMITTALS SHALL INCLUDE: PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, CERTIFICATION OF SOD AS KANSAS STATE FESCUE TRIAL MIX. PRODUCT CERTIFICATES: FOR SOIL AMENDMENTS AND FERTILIZERS, SIGNED BY PRODUCT MANUFACTURER, MATERIAL TEST REPORTS, FOR EXISTING SURFACE SOIL AND IMPORTED TOPSOIL, AND PLANTING SCHEDULE, INDICATING ANTICIPATED PLANTING DATES FOR SOD INSTALLATION.
- INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL LAWN ESTABLISHMENT.
- INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN PLANTING IS IN PROGRESS.
- REPORT SUITABILITY OF TOPSOIL FOR LAWN GROWTH. STATE RECOMMENDED QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY TOPSOIL.
- DELIVERY, STORAGE, AND HANDLING FOR SOD: HARVEST, DELIVER, STORE, AND HANDLE SOD ACCORDING TO REQUIREMENTS IN TPI'S "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPORTING AND INSTALLATION" IN ITS "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING."
- LAWN MAINTENANCE: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED, BUT FOR NOT LESS THAN 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS TO PRODUCE A UNIFORMLY SMOOTH LAWN. WATERING: PROVIDE AND MAINTAIN TEMPORARY IRRIGATION SYSTEM TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
- WATER LAWN AT A MINIMUM RATE OF 1 INCH PER WEEK OR AS NECESSARY TO PROVIDE A HEALTHY GREEN APPEARANCE. A DEEP ROOT SYSTEM IS DESIRED THEREFORE DO NOT WATER LAWNS AFTER ESTABLISHMENT MORE THAN EVERY OTHER DAY.
- MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 33 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 33 PERCENT OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT DELAY MOWING UNTIL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN THE FOLLOWING GRASS HEIGHT: MOW GRASS 2 INCHES HIGH IN SPRING AND FALL AND 2 1/2 INCHES HIGH IN THE SUMMER. TRIM AND EDGE ALONG WALKS, WALLS, ETC.
- LAWN POSTFERTILIZATION: APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.
- APPLY FERTILIZER 5 TIMES PER SEASON, SPRING: FERTILIZER PLUS WEED CONTROL FOR CRABGRASS, LATE SPRING: FERTILIZER PLUS WEED CONTROL FOR BROADLEAF WEEDS, SUMMER: FERTILIZER, EARLY FALL: FERTILIZER PLUS WEED CONTROL, LATE FALL: WINTERIZER.
- AERATE LAWN A MINIMUM OF ONCE PER YEAR.
- TURFGRASS SPECIES: GRASS SPECIES, BOTH SOD AND SEED, AS FOLLOWS, WITH NOT LESS THAN 95 PERCENT GERMINATION, NOT LESS THAN 85 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED SEED: MOST CURRENT AVAILABLE KANSAS STATE FESCUE TRIAL MIX, RATED IN TOP 1/3 OF VARIETIES TESTED FOR VISUAL APPEARANCE AVERAGE THROUGHOUT THE YEAR OR APPROVED EQUAL.
- TOPSOIL: ASTM D 5268, PH RANGE OF 5.5 TO 7, A MINIMUM OF 4 BARE SPOTS NOT EXCEEDING 6 BY 5 INCHES). CONTRACTOR SHALL BE RESPONSIBLE FOR IRRIGATION AND ESTABLISHMENT OF TURF GRASS UNLESS WRITTEN ACCEPTANCE IS RECEIVED FOLLOWING APPROVAL BY THE SCHOOL DISTRICT.
- TOPSOIL SOURCE: REUSE SURFACE SOIL STOCKPILED ON-SITE. VERIFY SUITABILITY OF STOCKPILED SURFACE SOIL TO PRODUCE TOPSOIL. CLEAN SURFACE SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEANOUS MATERIALS HARMFUL TO PLANT GROWTH. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP. DO NOT OBTAIN FROM BOGS OR MARSHES. TOPSOIL TO BE PLACED IN AN 8' LIFT IN ALL PLANTING BED AREAS.
- AMEND SOIL AS NECESSARY TO MEET TOPSOIL REQUIREMENTS OF ASTM D 5268.
- EXAMINE AREAS TO RECEIVE LAWNS AND GRASS FOR COMPLIANCE WITH REQUIREMENTS AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS. PROVIDE EROSION CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS. ELIMINATE COMPETING GRASS VEGETATION IN ALL AREAS TO BE IMPROVED WITH "ROUNDUP" OR AN APPROVED EQUAL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. SEVERAL APPLICATIONS MAY BE NECESSARY. WORK TO REMOVE COMPETING VEGETATION SHALL BEGIN SEVERAL MONTHS BEFORE SODDING OPERATIONS COMMENCE.
- LIMIT SOD SUBGRADE PREPARATION TO AREAS TO BE PLANTED THE SAME OR FOLLOWING DAY. NEWLY GRADED AREAS: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEANOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. APPLY FERTILIZER DIRECTLY TO SUBGRADE BEFORE LOOSENING. SPREAD TOPSOIL IF NECESSARY, APPLY SOIL AMENDMENTS AND FERTILIZER ON SURFACE, AND THOROUGHLY BLEND.
- LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION AND TURF OFF OWNER'S PROPERTY.
- PRIOR TO LAYING SOD THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER AND OWNER'S REPRESENTATIVE THAT WATER IS AVAILABLE AND IN A WORKING ORDER TO ADEQUATELY COVER ALL SODDED AREAS. THE LANDSCAPE CONTRACTOR MUST COORDINATE WITH THE GENERAL CONTRACTOR AND OWNER, TO CONNECT TO BUILDING HOSE BIBS OR OTHER MEANS PRIOR TO SOD INSTALLATION. LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY.
- LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD; DO NOT STRETCH OR OVERLAP. STAGGER SOD STRIPS OR PADS TO OFFSET JOINTS IN ADJACENT COURSES. AVOID DAMAGE TO SUBGRADE OR SOD DURING INSTALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SUBGRADE. ELIMINATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOIL OR FINE SAND INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS TO AVOID SMOTHERING SOD AND ADJACENT GRASS. DO NOT ALLOW EDGES OF SOD TO TURN UP WHEN INSTALLING LAY SOD ACROSS ANGLE OF SLOPES EXCEEDING 1:3. ANCHOR SOD ON SLOPES EXCEEDING 1:6 WITH WOOD PEGS OR STEEL STAPLES SPACED AS RECOMMENDED BY SOD MANUFACTURER BUT NOT LESS THAN 2 ANCHORS PER SOD STRIP TO PREVENT SLIPPAGE. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1 1/2 INCHES BELOW SOD. SATISFACTORY SODDED LAWN: WITHIN 60 DAYS AND AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VISIBLE LAWN HAS BEEN ESTABLISHED, FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.
- REESTABLISH LAWNS THAT DO NOT COMPLY WITH REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY. SATISFACTORY SODDED OR SEEDED LAWN: WITHIN 60 DAYS AND AT END OF MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS HAS BEEN ESTABLISHED, FREE OF WEEDS AND SURFACE IRREGULARITIES, WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 6 BY 5 INCHES). CONTRACTOR SHALL BE RESPONSIBLE FOR IRRIGATION AND ESTABLISHMENT OF TURF GRASS UNLESS WRITTEN ACCEPTANCE IS RECEIVED FOLLOWING APPROVAL BY THE SCHOOL DISTRICT.
- PROMPTLY REMOVE SOIL AND DEBRIS CREATED BY LAWN WORK FROM PAVED AREAS. CLEAN WHEELS OF VEHICLES BEFORE LEAVING SITE TO AVOID TRACKING SOIL, ONTO ROADS, WALKS, OR OTHER PAVED AREAS. ERECT BARRICADES AND WARNING SIGNS AS REQUIRED TO PROTECT NEWLY PLANTED AREAS FROM TRAFFIC. MAINTAIN BARRICADES THROUGHOUT MAINTENANCE PERIOD AND REMOVE AFTER LAWN IS ESTABLISHED. REMOVE EROSION CONTROL MEASURES AFTER GRASS ESTABLISHMENT PERIOD.



EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL SEED, MULCH, OR OTHERWISE STABILIZE ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS. INITIAL STABILIZATION ACTIVITIES SHALL BE COMPLETED WITHIN 14 DAYS AFTER SOD DISTURBING ACTIVITIES CEASED. ALL SEEDING ACTIVITIES SHALL INCLUDE MULCHING OR EQUIVALENT SOIL STABILIZING BMP MEASURE OF THE DISTURBED AREA. THE CONTRACTOR SHALL PERFORM INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE PER WEEK AND WHENEVER A RAINFALL TOTAL OF 0.5 INCHES OR GREATER IS OBSERVED BASED ON A SINGLE MONITORING EVENT; OR BASED ON THE CUMULATIVE TOTAL OF TWO CONSECUTIVE MONITORING EVENTS WHEN THE RAINFALL TOTAL OF THE FIRST MONITORING EVENT IS LESS THAN 0.5 INCHES. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG INCLUDING THE INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS AS TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL MEASURES, ACTIONS NECESSARY TO CORRECT DEFICIENCIES, WHEN DEFICIENCIES ARE CORRECTED, AND THE SIGNATURE OF THE PERSON PERFORMING THE INSPECTION. CONTRACTOR SHALL ADD EROSION CONTROL MEASURES AS NECESSARY TO CONTROL SEDIMENT RUNOFF FROM THE SITE, ADDITIONAL MEASURES SHALL BE AT THE CONTRACTORS EXPENSE.
- CONTRACTOR TO HAVE A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE AT ALL TIMES. INSPECTION LOGS AND ANY CHANGES TO EROSION CONTROL MEASURES SHALL BE ADDED TO THE SWPPP.
- CONCRETE WASH OR RINSE WATER FROM CONCRETE MIXING EQUIPMENT, TOOLS AND/OR READY-MIX TRUCKS, TOOLS, ETC. MAY NOT BE DISCHARGED INTO OR BE ALLOWED TO RUN DIRECTLY INTO ANY EXISTING WATER BODY OR STORM INLET. ONE OR MORE LOCATIONS FOR CONCRETE WASH OUT WILL BE DESIGNATED ON SITE, SUCH THAT DISCHARGES DURING CONCRETE WASHOUT WILL BE CONTAINED IN A SMALL AREA WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER EVAPORATED OR INFILTRATED INTO THE GROUND.
- CHEMICALS OR MATERIALS CAPABLE OF CAUSING POLLUTION MAY ONLY BE STORED ON-SITE IN THEIR ORIGINAL CONTAINER. MATERIALS STORED OUTSIDE MUST BE IN CLOSED AND SEALED WATER-PROOF CONTAINERS AND LOCATED OUTSIDE OF DRAINAGE WAYS OR AREAS SUBJECT TO FLOODING. LOCKS AND OTHER MEANS TO PREVENT OR REDUCE VANDALISM SHALL BE USED. SPILLS WILL BE REPORTED AS REQUIRED BY LAW AND IMMEDIATE ACTIONS TAKEN TO CONTAIN THEM.
- SEE SHEET C200 FOR EROSION CONTROL DETAILS.
- CONTRACTOR TO KEEP ALL SEDIMENT FROM EXISTING OR PROPOSED PAVEMENT.
- CONTRACTOR TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CITY, STATE, AND FEDERAL REGULATIONS FOR EROSION CONTROL.
- ALL DISTURBED AREAS SHALL BE PERMANENTLY SOD UPON COMPLETION OF PROJECT. REFER TO FESCUE TURF SOD NOTES FOR INSTALLATION INSTRUCTIONS.
- REMOVE SEDIMENT AND DEBRIS FROM ALL STORM SEWER SYSTEM STRUCTURES AND PIPES ON-SITE, INCLUDING PERFORATED UNDERDRAINS PRIOR TO FINAL COMPLETION.

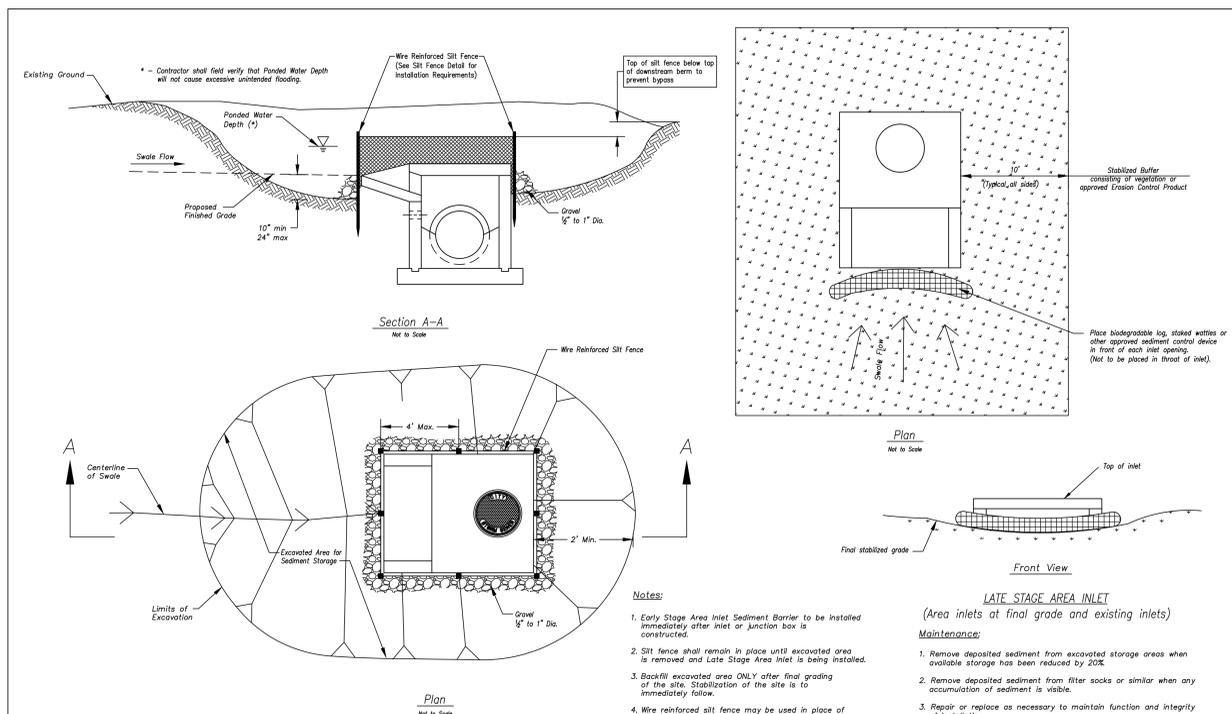
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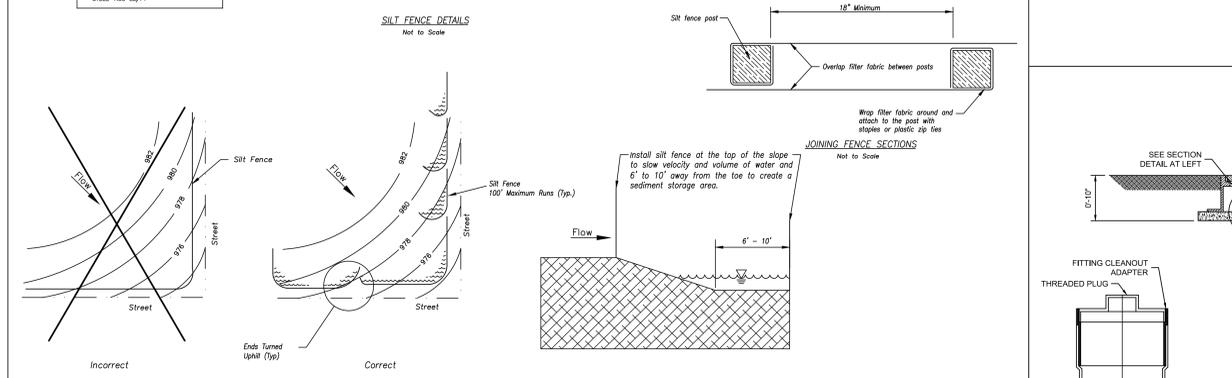
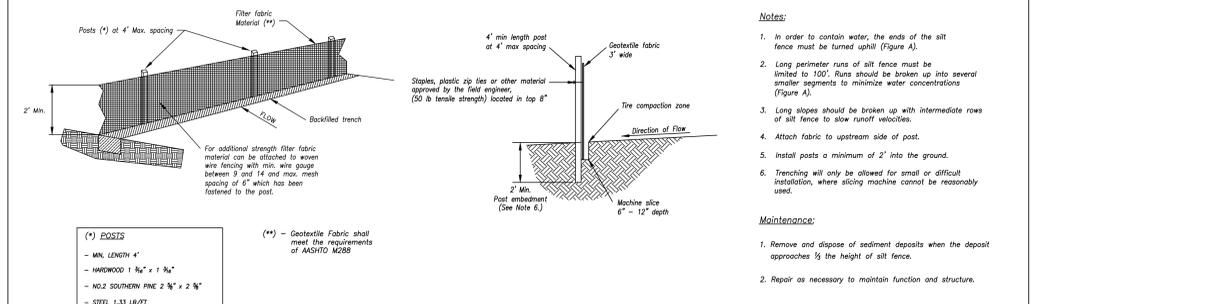


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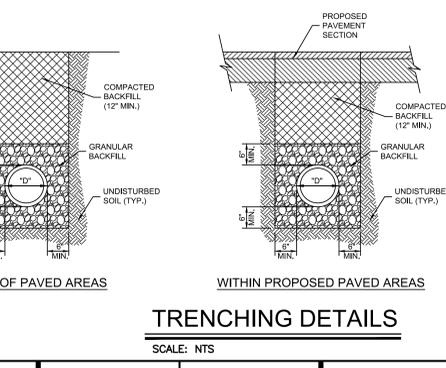
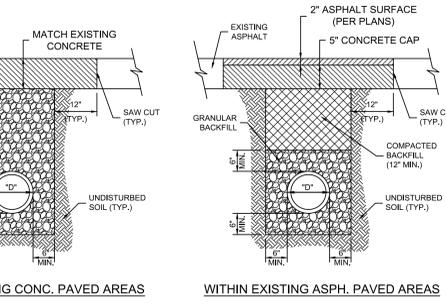
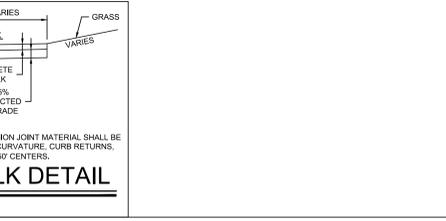
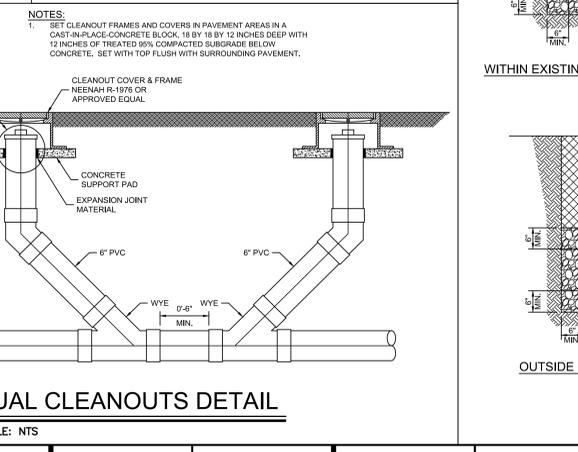
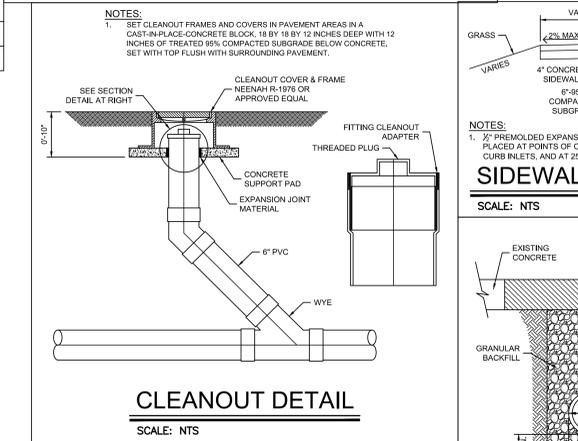
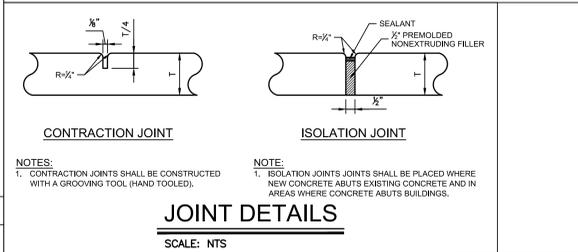
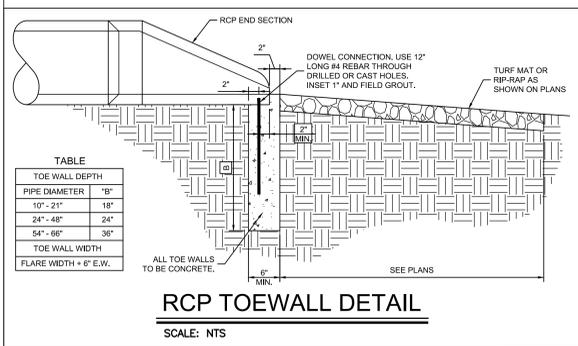
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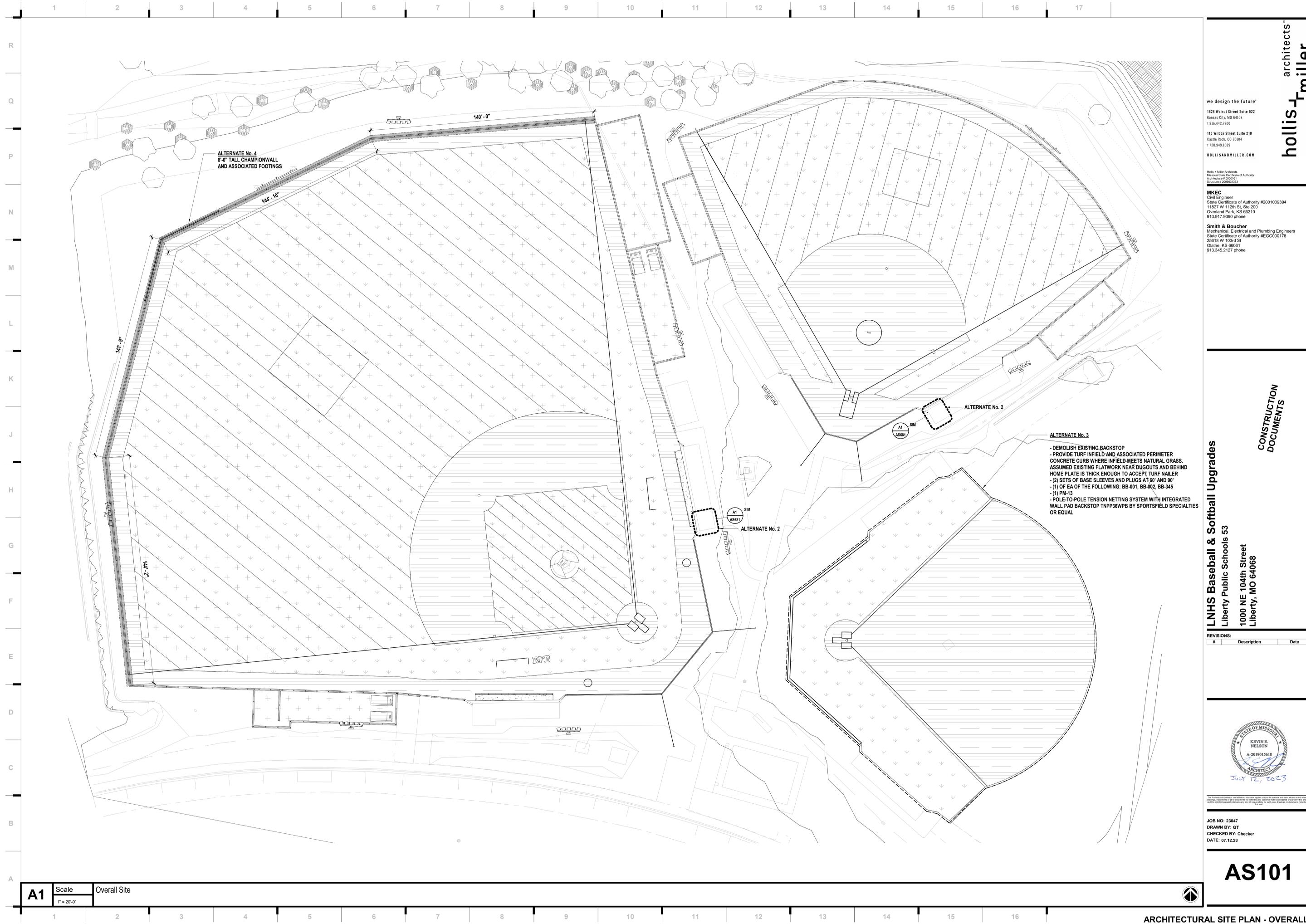
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APWA
 KANSAS CITY METRO CHAPTER
 AREA INLET AND JUNCTION BOX PROTECTION
 STANDARD DRAWING NUMBER ESC-07
 ADOPTED: 10/24/2016



AMERICAN PUBLIC WORKS ASSOCIATION
APWA
 KANSAS CITY METRO CHAPTER
 SILT FENCE
 STANDARD DRAWING NUMBER ESC-03
 ADOPTED: 10/24/2016



- NOTES:**
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION.
 2. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK, PLACED IN 6" LIFTS AND COMPACTED BY SLICING WITH A SHOVEL.
 3. FILL SHALL BE FINELY DIVIDED, JOB EXCAVATED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES, AND COMPACTED.
 4. BACKFILL TO BE COMPACTED TO 90% OF STANDARD DENSITY OUTSIDE OF PAVED AREAS.



ALTERNATE No. 4
8'-0" TALL CHAMPIONWALL
AND ASSOCIATED FOOTINGS

ALTERNATE No. 3

- DEMOLISH EXISTING BACKSTOP
- PROVIDE TURF INFIELD AND ASSOCIATED PERIMETER CONCRETE CURB WHERE INFIELD MEETS NATURAL GRASS. ASSUMED EXISTING FLATWORK NEAR DUGOUTS AND BEHIND HOME PLATE IS THICK ENOUGH TO ACCEPT TURF NAILER
- (2) SETS OF BASE SLEEVES AND PLUGS AT 60° AND 90°
- (1) OF EA OF THE FOLLOWING: BB-001, BB-002, BB-345
- (1) PM-13
- POLE-TO-POLE TENSION NETTING SYSTEM WITH INTEGRATED WALL PAD BACKSTOP TNP36WFB BY SPORTSFIELD SPECIALTIES OR EQUAL

ALTERNATE No. 2

ALTERNATE No. 2

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Structure # 200601333

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913.345.2127 phone

LNHS Baseball & Softball Upgrades
Liberty Public Schools 53
1000 NE 104th Street
Liberty, MO 64068

CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

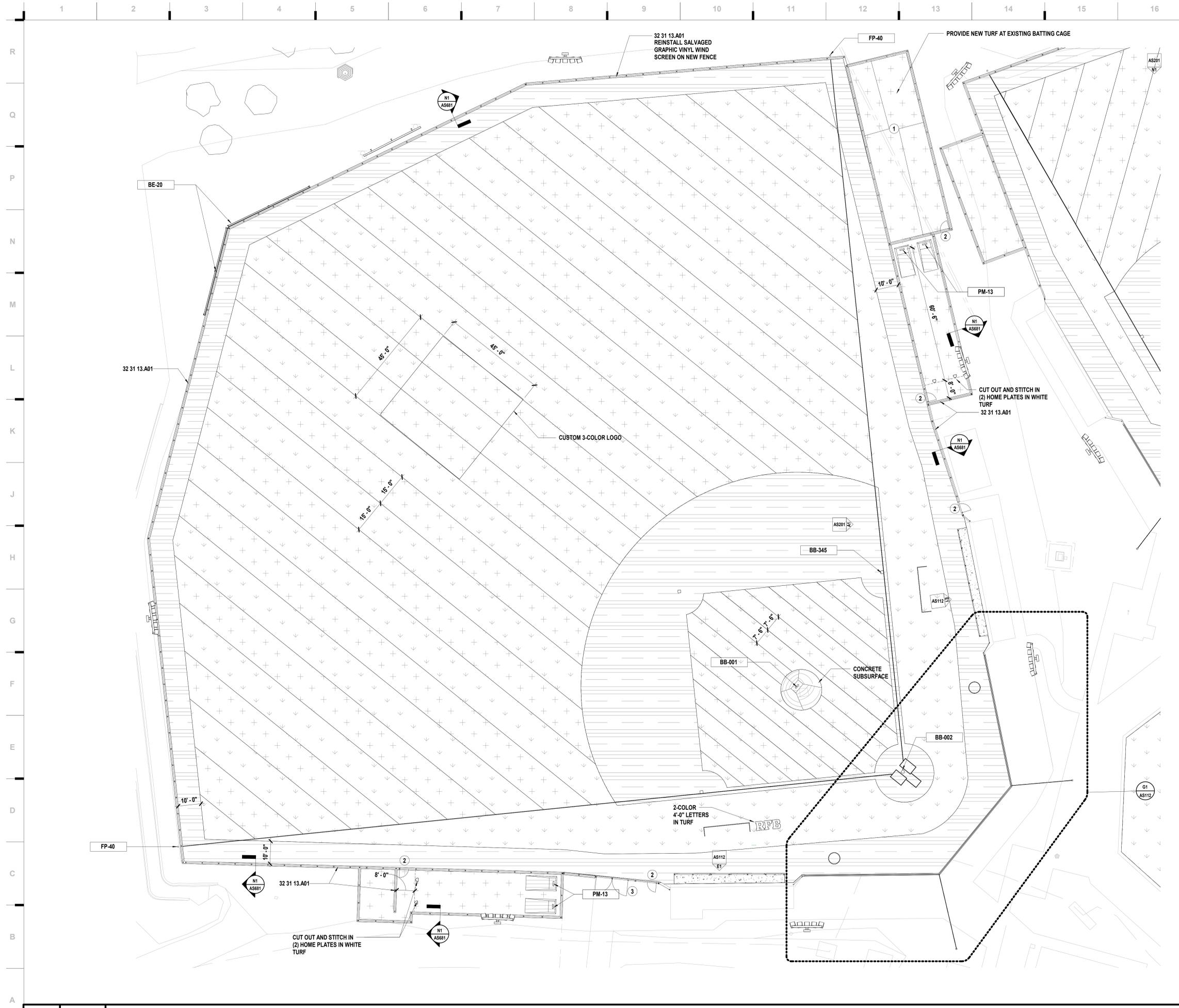


The Professional Engineer seal and stamp is the official approval of the engineer and shall be placed on the final drawing. It shall not be used on any drawing or document that is not a final drawing or document. The seal and stamp shall be used only for the project and shall not be used for any other project. The seal and stamp shall be used only for the project and shall not be used for any other project.

JOB NO: 23047
DRAWN BY: GT
CHECKED BY: Checker
DATE: 07.12.23

AS101

A1 Scale Overall Site
1" = 20'-0"



SHEET KEYNOTE LEGEND



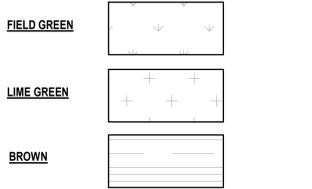
SITE - GENERAL NOTES

- REFER TO SHEET AS881 FOR EQUIPMENT SCHEDULE.
- ALL CHAINLINK FENCE TO BE 8'-0" IN HEIGHT UNLESS NOTED OTHERWISE.
- EXISTING FENCING POLES TO REMAIN SHALL BE PREPPED WITH ACRYLIC METAL PRIMER FOR GALVANIZED SURFACES PRIOR TO PAINTING.
- BASE PATHS, FOUL LINES, BATTERS BOXES, COACHES BOXES AND ALL OTHER FIELD STRIPING TO BE STITCHED IN WHITE TURF.
- INSTALLER RESPONSIBLE FOR MEETING ALL FIELD OF PLAY GUIDELINES AS ADOPTED BY MSHSAA AND NFHS

SITE - KEYED NOTES

- EXISTING PORTION OF FENCING TO REMAIN, AND ALL ASSOCIATED CONDUIT/SOUND SYSTEM COMPONENTS. PAINT FENCE POSTS BLACK. INSTALL BLACK PVC COATED CHAINLINK TO EXISTING POSTS. HEIGHTS VARY. VERIFY IN FIELD.
- 4'-0" PASS THROUGH GATE
- PAIR OF 7'-0" ACCESS GATES

TURF COLOR LEGEND



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 1828 Walnut Street Suite 922
 Kansas City, MO 64108
 1 816.442.7700

115 Wilcox Street Suite 210
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 Missouri State Certificate of Authority
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 Structure # 200603333

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STATE OF MISSOURI

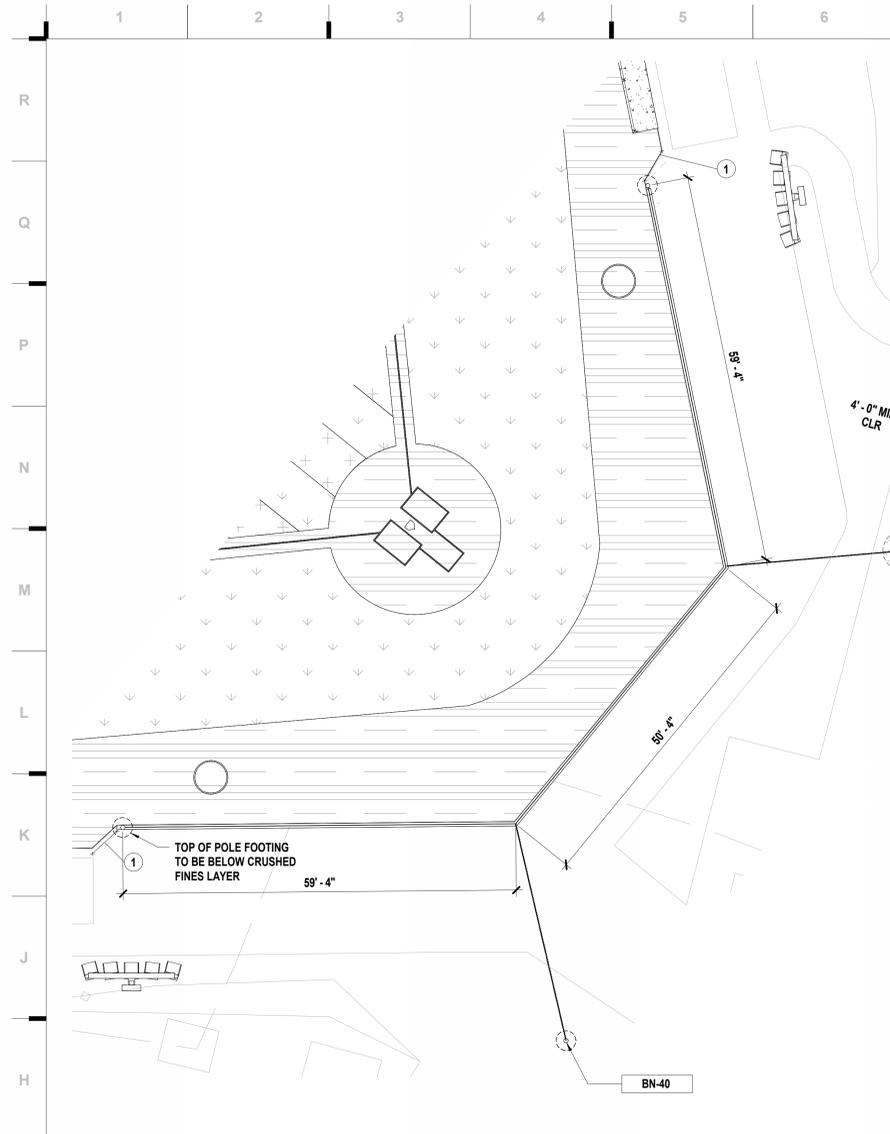
KEVIN E. NELSON
 A-2019015618
 ARCHITECT

JULY 12, 2023

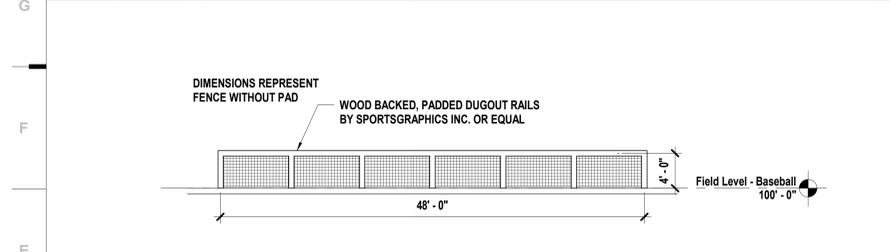
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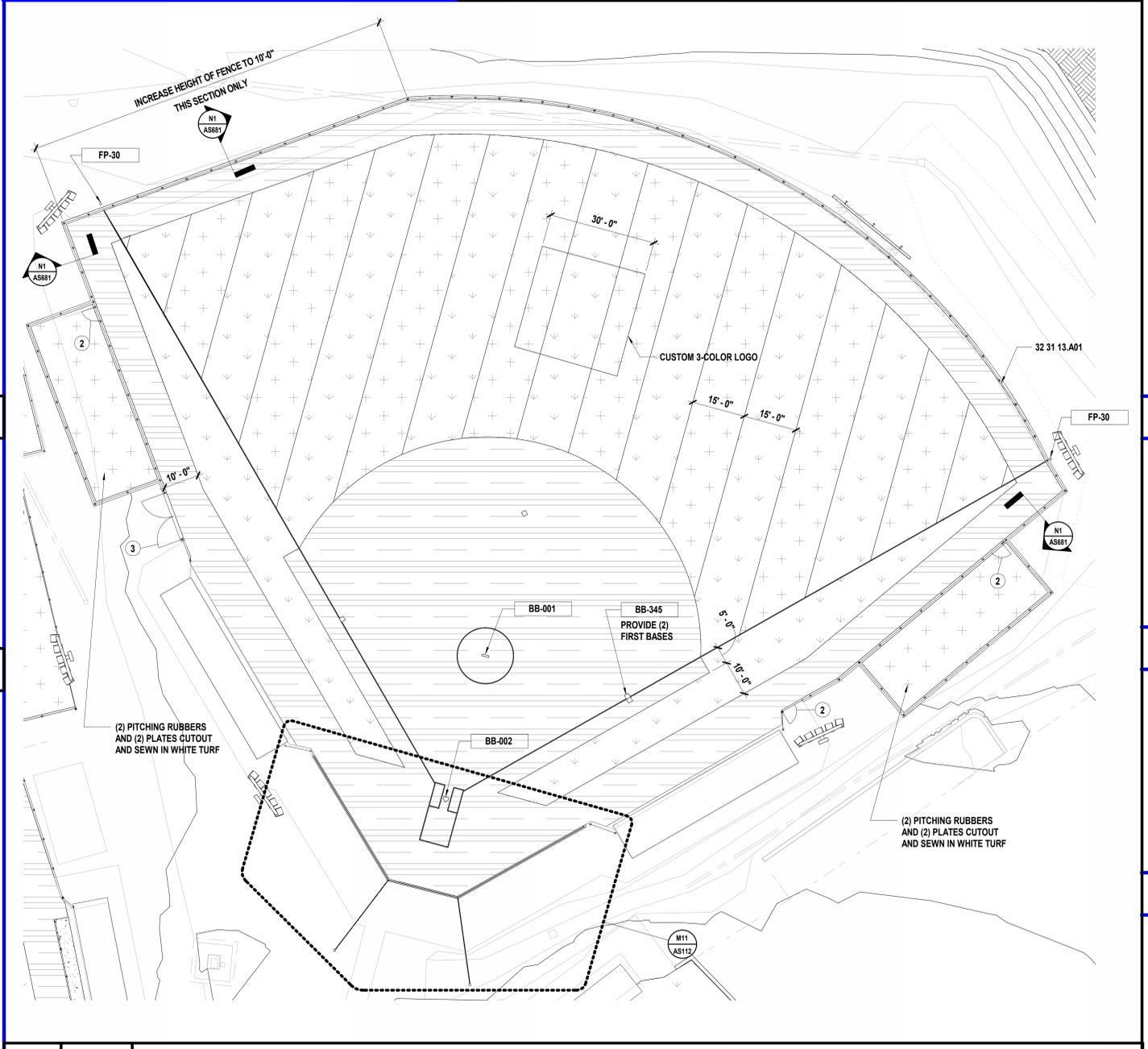
AS111



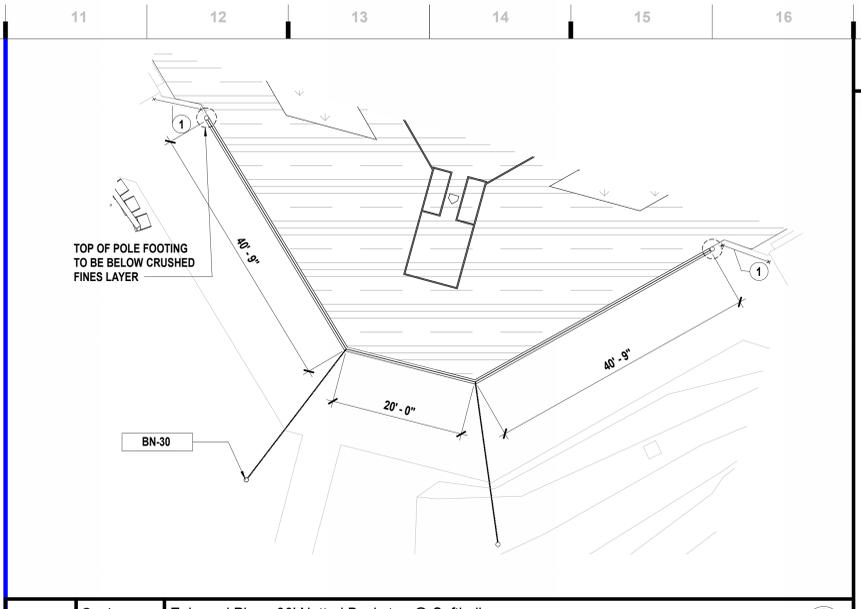
G1 Scale 3/32" = 1'-0" Enlarged Plan - 40' Netted Backstop @ Baseball



E1 Scale 1/8" = 1'-0" Elevation - Padded Fence at Dugout



A7 Scale 1/16" = 1'-0" Field Level - Softball



M11 Scale 3/32" = 1'-0" Enlarged Plan - 30' Netted Backstop @ Softball

SHEET KEYNOTE LEGEND

32 31 13.A01	CHAIN LINK FENCING
--------------	--------------------

SITE - GENERAL NOTES

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TURF COLOR LEGEND

FIELD GREEN	
LIME GREEN	
BROWN	

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AS112

A. Building Code

1. The design and construction shall conform to the 2018 International Building Code (IBC) as amended by the City of Liberty, Missouri.

B. Design Loads

1. This project is designed to resist the most critical loads resulting from the basic load combinations outlined in section 1605 of the code.

2. Snow - The snow load is in accordance with ASCE 7 with the following criteria:

- a. Ground snow load $p_g = 20$ psf
- b. Exposure Factor $C_e = 1.00$
- c. Importance Factor $I_s = 1.00$
- d. Thermal Factor $C_t = 1.10$
- e. Roof Slope Factor $C_s = 1.0$
- f. Flat Roof Snow Load $p_f = 15.4$ psf
- g. Minimum Snow Load $p_m = 22$ psf

3. Wind - The wind load is in accordance with ASCE 7 with the following criteria:

- a. Basic wind speed $V = 110$ mph
- b. Allowable Stress Design Wind Speed $V_{ASD} = 86$ mph
- c. Risk Category II
- d. Exposure Category C
- e. Internal Pressure Coefficient ± 0.00
- f. Components & Cladding Force per code

4. Seismic - The seismic design is in accordance with the general building code with the following criteria:

- a. Importance Factor $I_e = 1.00$
- b. Risk Category II
- c. 0.2 sec. Spectral Response Acceleration $S_S = 9.4\%$
- d. 1.0 sec. Spectral Response Acceleration $S_1 = 6.9\%$
- e. Soil Site Class D
- f. Design 0.2sec Spectral Response Acceleration $S_{DS} = 10.0\%$
- g. Design 1.0sec Spectral Response Acceleration $S_{D1} = 11.0\%$
- h. Seismic Design Category B

5. Rain - The rain load is in accordance with the general building code and ASCE 7 with the following criteria:

- a. Rainfall Intensity (15 minute) 7.62 in./hr
- b. Rainfall Intensity (60 minute) 3.68 in./hr

C. Foundations

1. Geotechnical Report

- a. A Geotechnical Engineering Report was not provided for this project.

2. Spread Footings, Trench Footing and Grade Beams

- a. All shallow foundations have been designed to bear on undisturbed soil or engineered fill for a net allowable bearing pressure of 1500 psf based on presumptive values per IBC table 1806.2.

D. Concrete

1. All concrete and reinforcing details shall conform to ACI 318 and CRSI "Manual of Standard Practice".

2. Strength - The following areas shall have a minimum 28 day compressive strength:

- a. Footing and grade beams: 4000 psi

3. No water may be added to the concrete mix on the job site unless specifically withheld at the batch plant. The workability should be attained through the use of water-reducing agents and/or super-plasticizing chemical admixtures.

4. Reinforcing

- a. Grade
 - 1. Typical reinforcing ASTM A615, Grade 60
 - 2. Welded reinforcing ASTM A706
- b. Lap splices and development lengths in reinforcement shall be 48 bar diameters unless indicated elsewhere in the drawings and specifications. Lap welded wire reinforcing one full mesh space plus 2 inches.
- c. Welded Wire Reinforcing ASTM A1064
 - 1. All welded wire reinforcing for slab on grade shall be supported on metal chairs specifically designed for soil bearing conditions. Pulling reinforcing up during concrete placement is not allowed.
 - 2. All welded wire for metal deck supported slab shall be supported by metal chairs with a maximum spacing of 4'-0" OC. Pulling reinforcing up during concrete placement is not allowed.
- d. All concrete shall be reinforced unless specifically identified on the drawings as unreinforced. Reinforce sections with similar conditions located elsewhere on the project.

5. Concrete cover shall be the following:

- a. Concrete cast against and exposed to earth 3"
- b. Concrete exposed to earth or weather #5 and smaller 1 1/2"
- c. Concrete exposed to earth or weather #6 and larger 2"

6. All openings in foundations shall have an additional (2) #5's on each side, in each corner of the opening and each face of the member. Extend reinforcing 2'-6" beyond edge of opening.

7. The Contractor shall provide an additional (5) bars of each size specified on the structural drawings of reinforcing to be used at the direction of the Structural engineer. The Contractor shall include all costs associated with material, field fabrication, and placing.

8. Aluminum items shall not be embedded in concrete.

E. Post Installed Anchors

1. All post installed anchors shall be designed assuming cracked concrete at the anchorage.

2. All post installed anchors shall be installed per the manufacturers recommendations.

- a. Install expansion anchors per the manufacturers recommended standard embedment unless otherwise noted in the contract documents.
- b. The embedment of all post installed anchors shall be defined as the distance from the surface of the loaded material and the deepest part of the anchor after the anchor is placed but not expanded.

3. All expansion anchors shall perform to a minimum load capacity of the Hilti Kwik Bolt 3 or approved equal.

4. All adhesive anchors embedded in concrete shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.

5. All anchors shall be stainless steel at exterior exposed conditions.

F. Miscellaneous

1. Periodic site observation by field representatives of Hollis and Miller Architects, if provided, is solely for the purpose of determining if the work of the contractor is proceeding in general accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the owner against defects or deficiencies in the work of the contractor. Observations by the engineer shall not be considered inspections, and in no way relieves the contractor of any requirements of the contract documents.

2. The structure is designed to function as a unit upon completion and is not structurally stable until all foundations are complete and have achieved their design strength. Contractor is solely responsible for maintaining structural stability during erection and construction and is responsible for furnishing all temporary bracing and/or support that may be required as the result of the contractor's construction methods and sequences. Temporary bracing plans shall include installation and removal sequencing as applicable. Temporary bracing systems are not to be removed until structural work is complete.

3. The contractor shall not alter or modify work shown on the structural drawings without receiving written approval from the engineer. When conflicts occur between the drawings and specifications, the strictest interpretation shall govern.

4. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the method or means of construction. The contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequence, and safety precautions and programs. The engineer will not be responsible for the acts or omission of the contractor, subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

5. See architectural, mechanical, electrical, and civil drawings for other pertinent information related to the structural work and coordinate as required. These structural drawings are intended to be utilized as a complete set of documents that represent the building's structural systems. No single sheet or series of sheets is intended to "stand alone". Typical details may or may not be cut at specific locations throughout the drawings, but are to be applied where required. These structural drawings are intended to be included in a complete set of construction documents, including but not limited to, architectural drawings, civil drawings, and mechanical/electrical/plumbing drawings. Contractor shall verify coordination of these drawings with contents of above sets specified and only proceed with bidding and construction after such has taken place.

6. All existing field and building conditions shall be verified by the Contractor before any other work shall begin. Coordinate with Engineer of Record regarding any discrepancy with existing building dimensions.

7. Submittals

- a. Submittals are to be based upon the latest submitted contract documents. This includes all addendums, Architectural Supplemental Instructions (ASIs), Structural Supplemental Drawings (SSD's), and Requests for Information (RFI's).
- b. Submittals shall be original documents. Shop drawings shall not be a duplication, in any way, of the contract documents. This includes, but is not limited to, photocopies, electronic drawing copying or electronic scanning. Any submitted shop drawing that is not original will be rejected and returned without review.
- c. Prior to submission of the submittals to the Architect, the Contractor shall review the shop drawings for conformance to the means, methods, techniques, sequences, and operations of construction. The submittal shall be coordinated with all other trades and shall include responses to all Contractor directed questions. After all aspects of the Contractor's review are complete, the Contractor's review stamp shall be affixed to the shop drawings and those shop drawings forwarded to the Architect or Structural Engineer for review. Shop drawings not bearing the Contractor's review stamp will be returned without review.
- d. Submittals - Provide the following submittals for review:
 - 1. Concrete Mix Design and Materials
 - 2. Concrete Reinforcing
- e. Substitutions are allowed prior to bid only. Reference the specifications for timing of submission

G. Special Inspections (based on 2018 IBC, Chapter 17)

1. Special inspection reports shall be submitted to the Building Official, Owner, Architect, Engineer, Contractor, Sub-Contractor and any other pertinent entity in a timely manner.

2. All discrepancies found by the special inspector shall immediately be brought to the attention of the general contractor and corrected. If the contractor is unable to correct the discrepancy, the special inspector shall notify the Architect and Engineer.

3. Upon completion of the project, the special inspector shall submit a final report delineating that the work was, to the best of the inspector's knowledge, completed in conformance with the approved contract documents and applicable building code.

4. The Owner shall retain special inspection services for the items listed below. The Contractor shall provide light general labor as required to assist with special inspections.

5. Foundations

- a. See Schedule of Special Inspections Table this sheet.

6. Concrete

- a. See Schedule of Special Inspections Table this sheet.

7. Post installed Anchors

Special Inspection of Soils - Table 1705.6

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify materials below shallow foundations are adequate to achieve the required bearing capacity.		X
Yes	2. Verify excavations are extended to proper depth and have reached proper material.		X
Yes	3. Perform classification and testing of compacted fill materials.		X
Yes	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	
Yes	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		X

Special Inspection of Concrete Construction - Table 1705.3

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect reinforcing steel, including prestressing tendons, and...		X
Yes	2. Inspection of reinforcing steel welding in accordance with Steel Construction section above.		X
Yes	3. Inspection of anchors cast in concrete.		X
Yes	4. Inspection of anchors post-installed in hardened concrete members.	X	
Yes	5. Verify use of approved design mix.		X
Yes	6. Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	
Yes	7. Inspect concrete and shotcrete placement for proper application techniques.	X	
Yes	8. Inspect for maintenance of specified curing temperature and techniques.		X
No	9. Inspection of prestressed concrete:		
No	9.a. Application of prestressing forces	X	
No	9.b. Grouting of bonded prestressing tendons in the...	X	
No	10. Erection of precast structural members		X
No	11. Verification of in-situ concrete strength, prior to...		X
Yes	12. Inspection formwork for shape, location and...		X

SYMBOLS LEGEND

	PLAN NOTE		SLAB STEP
	ELEVATION SYMBOL		SLAB SLOPE
	DRAWING REVISION NUMBER		EARTH HATCH
	REVISION CLOUD		GRAVEL HATCH
	GRID LINE		CONCRETE HATCH
	WELDED WIRE FABRIC		GROUT HATCH
			BUILDING SECTION CUT OR DETAIL
			SHEET NUMBER
			ENLARGED DETAIL OR PLAN NUMBER
			SHEET NUMBER

Symbols		L	
&	And	L	Live Load
@	At	LBS	Pounds
A		LG	Length
A	Axial Load	LLBB	Long Leg Back to Back
ADDL	Additional	LLH	Long Leg Horizontal
AFF	Above Finished Floor	LLV	Long Leg Vertical
AHU	Air Handling Unit	LOC	Location
ALT	Alternate	LONG	Longitudinal
ALUM	Aluminum	LR	Roof Live Load
APPROX	Approximate	LSH	Long Side Horizontal
AR	Anchor Rod	LSV	Long Side Vertical
ARCH	Architect/Architectural Drawings	LWC	Light-Weight Concrete
ATS	Anchor Tie-Down System	LWT	Light-Weight
B		M	
BAL	Balance	MAS	Masonry
BL	Brick Ledger	MAX	Maximum
BLDG	Building	MCJ	Masonry Control Joint
BLKG	Blocking	MECH	Mechanical
BM	Beam	MEP	Mechanical/Electrical/Plumbing
BO	Bottom of	MEZZ	Mezzanine
BOD	Bottom of Deck	MFR	Manufacturer
BOS	Bottom of Steel	MIN	Minimum
ROT	Bottom	MIR	Mirror
BRG	Bearing	MISC	Miscellaneous
BS	Both Sides	MO	Masonry Opening
BTWN	Between	MTL	Metal
C		MX	Strong Axis Moment
C	Compression	MY	Weak Axis Moment
CANT	Cantilever	N	
CFSF	Cold-Formed Steel Framing	NIC	Not in Contract
CIP	Cast-in-Place	NM	Non-Metallic
CJ	Control Joint	NO or #	Number
CJP	Complete Joint Penetration	NS	Near Side/Non-Shrink
CL	Center Line	NTS	Not to Scale
CLR	Clear	NWC	Normal-Weight Concrete
CMU	Concrete Masonry Unit	NWT	Normal-Weight
COL	Column	O	
CONC	Concrete	OC	On Center
CONN	Connection	OD	Outside Diameter
CONST	Construction	OF	Outside Face
CONT	Continuous/Continue	OH	Opposite Hand
COORD	Coordinate	OPNG	Opening
CSJ	Construction Joint	OPP	Opposite
CTRD	Centered	P	
D		PAF	Powder Actuated Fastener
D	Dead Load	PAR	Parallel
d	Penny	PC	Precast Concrete
DBA	Deformed Bar Anchor	PCF	Pounds per Cubic Foot
DIA or Ø	Diameter	PERP	Perpendicular
DIM	Dimension	PL	Plate
DN	Down	PLF	Pounds per Linear Foot
DT	Precast Double Tee	PREFAB	Prefabricated
DTL	Detail	PRELIM	Preliminary
DWG	Drawing	PSF	Pounds per Square Foot
DWL	Dowel	PSI	Pounds per Square Inch
E		PT	Point or Post-Tensioned
E	Seismic Load	Q	
EA	Each	QTY	Quantity
EF	Each Face	R	
EJ	Expansion Joint	R	Radius
EL	Elevation	REF	Reference/Refer to
ELEV	Elevator	REINF	Reinforcing/Reinforced/Reinforcement
EMBED	Embedment/Embedded	REQD	Required
ENGR	Engineer	REQT	Requirement
EDD	Edge of Deck	RET	Return
EOR	Engineer of Record	REV	Revision
EOS	Edge of Slab	RO	Rough Opening
EQ	Equal	RTU	Roof Top Unit
EQUIP	Equipment	S	
EQUIV	Equivalent	S	Snow Load
ES	Each Side	SCHED	Schedule/Scheduled
EW	Each Way	SC	Slip Critical
EXIST or (E)	Existing	SDS	Self-Drilling Screw
EXT	Exterior	SECT	Section
F		SF	Square Foot
FAB	Fabricate	SHT	Sheet
Fc	28-day Concrete Strength	SIM	Similar
FD	Floor Drain	SLBB	Short Leg Back to Back
FFE	Finished Floor Elevations	SOG	Slab-on-Grade
FIN	Finish/Finished	SP	Spacing
FLR	Floor	SPEC	Specification
Fm	28-day Masonry Strength	SQ	Square
FND	Foundation	SS	Stainless Steel
FO	Face of	STD	Standard
FRAM	Framing	STIF	Stiffener
FS	Far Side	STL	Steel
FUT	Foot/Foot	STR	Structure/Structural
FUT OR (F)	Future	SW	Shear Wall
FV	Field Verify	SYM	Symmetrical
Fy	Yield Strength	T	
G		T	Tension
GA	Gauge/Gage	TAB	Top and Bottom
GALV	Galvanized/Galvanneal	THK	Thickness
GEN	General	THRD	Threaded Rod
GR	Grade	TO	Top of
H	Horizontal Shear	TOC	Top of Concrete
H		TOF	Top of Foundation
HSA	Headed Stud Anchor	TOM	Top of Masonry
HD	Headed/Hold Down	TOS	Top of Steel/Top of Slab
HGR	Hanger	TOW	Top of Wall
HK	Hook	TRANS	Transverse
HORIZ	Horizontal	Typ	Typical
HT	Height	U	
I		UNO	Unless Noted Otherwise
ID	Inside Diameter	V	
IF	Inside Face	V	Vertical Shear
IN	Inch	VAR	Varies
INT	Interior	VERT	Vertical
J		W	
JST	Joint	W	Wind Load
JT	Joint	W	With
K		W/O	Without
K	Kip (1000 lbs)	WF	Wide Flange
KSF	Kips per Square Foot	WP	Work Point/Waterproofing
KSI	Kips per Square Inch	WS	Waterstop
		WT	Weight
		WWR	Welded Wire Reinforcing

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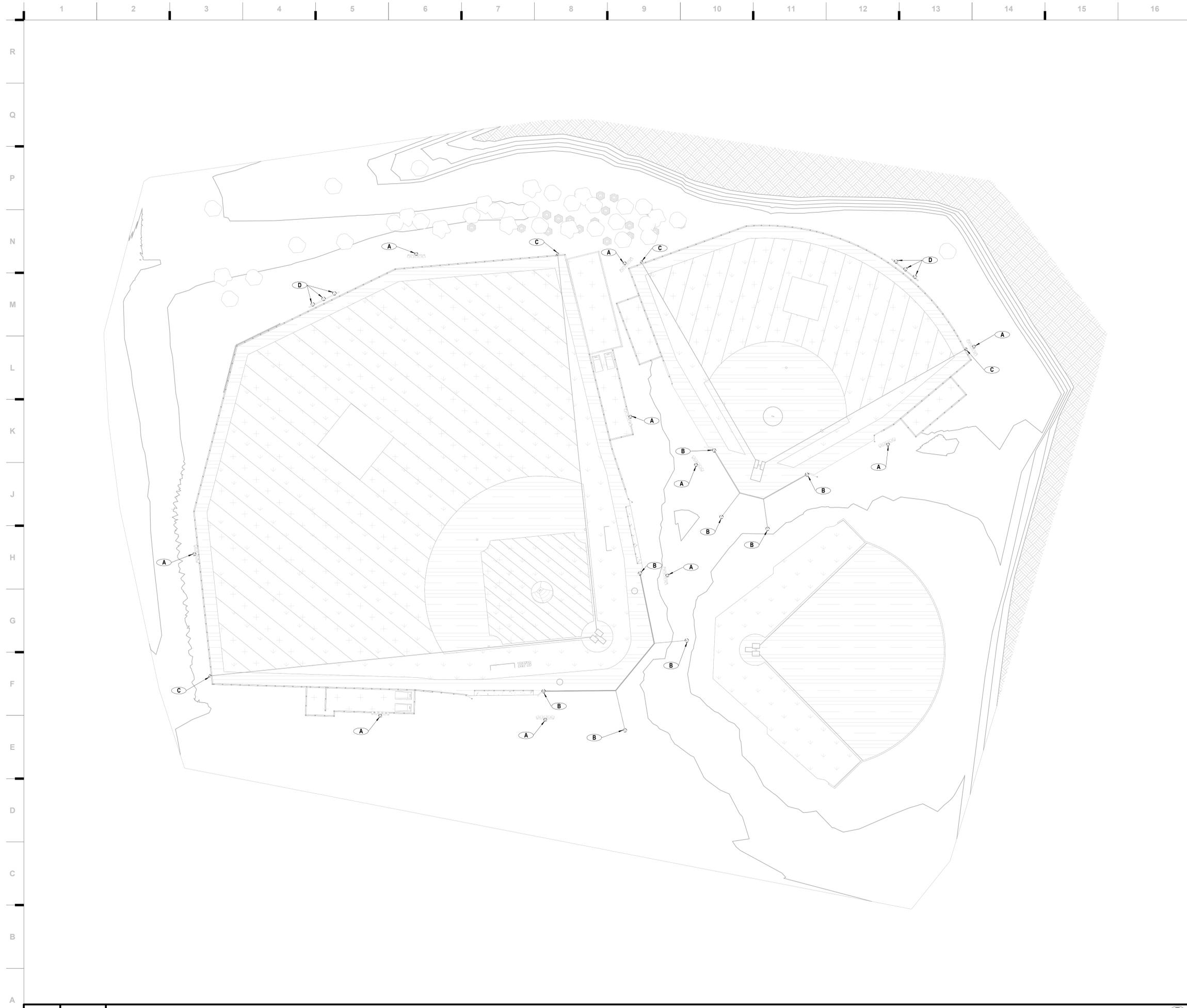
07/12/2023
David A. Krell
PE-2021014172

DAVID A. KRELL
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI

NO PROFESSIONAL ENGINEER AND ARCHITECT SHALL APPLY ONLY TO THE ISSUES AND ITEMS SHOWN ON THIS PLAN. THE ENGINEER'S RESPONSIBILITY IS LIMITED TO THE ISSUES AND ITEMS SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL ITEMS NOT SHOWN ON THIS PLAN.

JOB NO: 23047.00
DRAWN BY: JCH
CHECKED BY: LJR
DATE: 07.12.2023

S001



A1 Scale Foundation Plan - Overall
1" = 30'-0"



PLAN REFERENCE NOTES

- Ⓐ 70' MUSCO LIGHT POLE FOOTING PER LIGHT POLE MFR. REF: A1/S530.
- Ⓑ TENSION BACKSTOP NETTING FOOTING PER A5/S530.
- Ⓒ FOUL POLE FOOTING PER A9/S530.
- Ⓓ BATTER'S EYE FOOTING PER E9/S530.

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SHEET KEYNOTE LEGEND

03 30 00.A06 REINFORCING BARS

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r miller**

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CONSTRUCTION DOCUMENTS

LNHS Baseball & Softball Upgrades
Liberty Public Schools 53
1000 NE 104th Street
Liberty, MO 64068

REVISIONS:

#	Description	Date



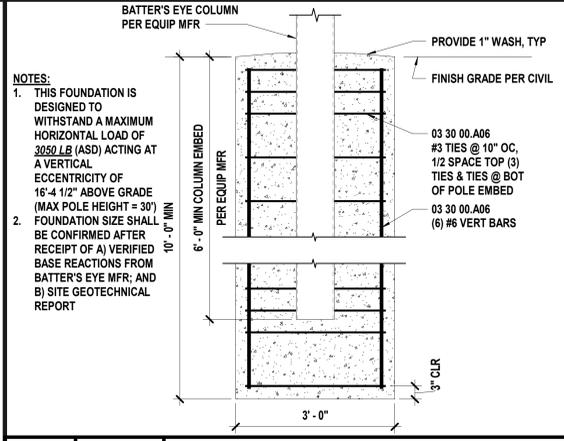
JOB NO: 23047.00
DRAWN BY: JCH
CHECKED BY: LJR
DATE: 07.12.2023

S530

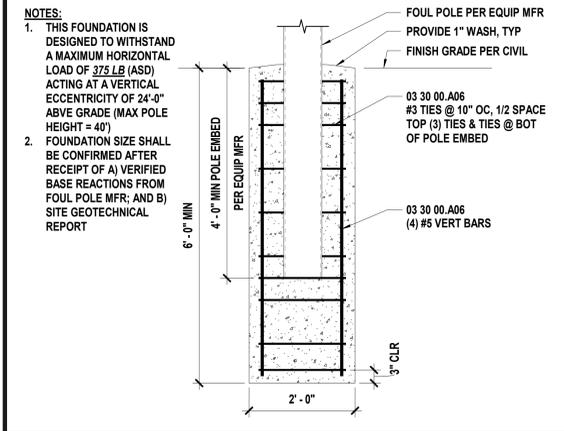
CONCRETE TENSION DEVELOPMENT AND LAP SPlice LENGTHS
GRADE 60 REINFORCEMENT, NORMALWEIGHT CONCRETE

BAR SIZE	LAP CLASS	f _c = 3000 PSI		f _c = 4000 PSI		f _c = 5000 PSI	
		BOTTOM BARS	OTHER BARS	BOTTOM BARS	OTHER BARS	BOTTOM BARS	OTHER BARS
#3	A	12	13	12	12	12	12
	B	16	17	16	16	16	16
#4	A	17	22	15	19	13	17
	B	23	29	20	25	17	23
#5	A	25	32	21	28	19	25
	B	33	42	28	37	25	33
#6	A	33	43	29	37	26	34
	B	43	56	38	49	34	45
#7	A	53	69	46	60	42	54
	B	69	90	60	78	55	71
#8	A	66	86	57	74	51	67
	B	86	112	75	97	67	88
#9	A	80	104	69	90	62	81
	B	104	136	90	117	81	106
#10	A	96	125	83	108	75	97
	B	125	163	108	141	98	127
#11	A	113	146	98	127	87	114
	B	147	190	128	166	114	149

- NOTES:**
- ALL SPlice LENGTHS ARE IN INCHES.
 - THIS TABLE SHALL BE USED FOR CONCRETE ONLY. REFER TO OTHER DEVELOPMENT LENGTH TABLES FOR OTHER MEMBERS.
 - THE TENSION DEVELOPMENT LENGTH (L_d) IS EQUAL TO THE SCHEDULED "CLASS A" LAP SPlice LENGTH.
 - A BOTTOM BAR IS DEFINED AS ANY BAR THAT DOES NOT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR.
 - OTHER BARS INCLUDE TOP BARS AND ALL OTHER BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE BELOW THE BAR. FOR TOP REINFORCEMENT IN SLABS THAT ARE 12" THICK OR LESS, TABULATED SPlice LENGTHS FOR BOTTOM BARS SHALL BE USED.
 - FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED SPlice LENGTHS OF BOTTOM BARS BY 1.5 AND THE TABULATED SPlice LENGTHS OF OTHER BARS BY 1.3.
 - WHEN LAP SPlicing BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR BUT MAY NOT BE LESS THAN THE "CLASS A" SPlice LENGTH OF THE LARGER BAR.
 - FOR CONCRETE STRENGTHS IN BETWEEN THOSE TABULATED HERE, USE DEVELOPMENT AND LAP SPlice LENGTHS OF LOWER CONCRETE STRENGTH.



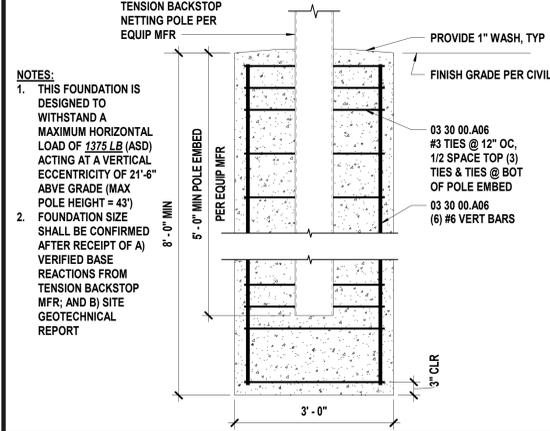
E9 Scale 3/4" = 1'-0" Typical Batter's Eye Footing



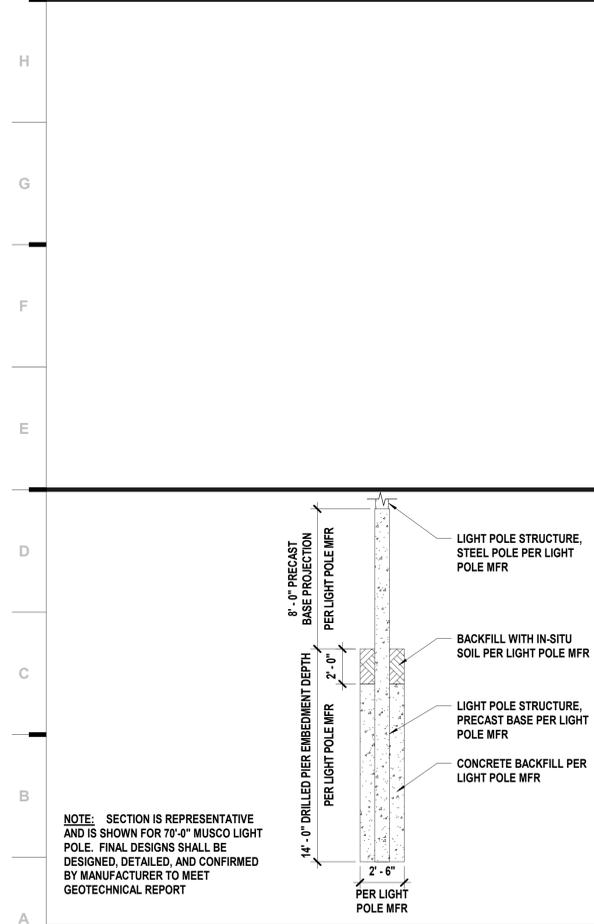
A9 Scale 3/4" = 1'-0" Typical Foul Pole Footing



A5 Scale 3/4" = 1'-0" Typical Tension Backstop Netting Footing



A1 Scale 1/4" = 1'-0" Typical 70' Musco Light Pole Footing



A13 Scale 1/2" = 1'-0" Typical Reinforcing Splice Length Table

NOTE: SECTION IS REPRESENTATIVE AND IS SHOWN FOR 70'-0" MUSCO LIGHT POLE. FINAL DESIGNS SHALL BE DESIGNED, DETAILED, AND CONFIRMED BY MANUFACTURER TO MEET GEOTECHNICAL REPORT

Symbol	Description	Symbol	Description	Symbol	Description	Symbol	Description
CONDUIT AND WIRE							
	ARROWS INDICATE CONDUIT AND WIRE HOME RUN(S) TO PANEL WITH 2-#12 AWG CONDUCTORS UNLESS NOTED OR OTHERWISE REQUIRED.		CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.		CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SLAB.		TELEPHONE CONDUIT
	LOW VOLTAGE CONDUIT AND WIRING	COMMUNICATIONS					
LIGHTING							
	BATTERY OPERATED EMERGENCY LIGHT (WALL MOUNTED)		BATTERY OPERATED EMERGENCY LIGHT (CEILING MOUNTED)		SURFACE/RECESSED LIGHT FIXTURE		FLUORESCENT LIGHT FIXTURE
	FLUORESCENT STRIP FIXTURE		SHADING DENOTES EMERGENCY FIXTURE		POLE MOUNTED LIGHT FIXTURE		EXIT LIGHT - DOUBLE FACE - ARROWS AS SHOWN
	EXIT LIGHT - SINGLE FACE - ARROWS AS SHOWN		LIGHTING SWITCHES-SINGLE POLE, 3-WAY, 4-WAY, KEY, LOW VOLTAGE, PILOT LIGHT		DIMMER WITH SINGLE POLE SWITCH		DIMMER WITH THREE WAY SWITCH (WATTAGE NOTED)
	WALL MOUNTED MOTION SENSOR		CEILING MOUNTED MOTION SENSOR (LETTER DENOTES TYPE)		SWITCH AND DUPLEX RECEPTACLE		DENOTES A WALL MOUNTED FIXTURE
WIRING DEVICES							
	DUPLEX RECEPTACLE.		LINE THRU DEVICE INDICATES ABOVE COUNTER		DUPLEX RECEPTACLE WITH ISOLATED GROUND (SINGLE AND FOURPLEX SIMILAR)		DUPLEX RECEPTACLE - TOP HALF SWITCHED - BOTTOM HALF TO HAVE POWER AT ALL TIMES
	DUPLEX RECEPTACLE ON EMERGENCY POWER (SINGLE AND FOURPLEX SIMILAR)		FOURPLEX RECEPTACLE		SINGLE RECEPTACLE		CEILING MOUNTED RECEPTACLE
	MULTI-SERVICE FLOOR BOX		DIVIDED POWER POLE		FLOOR BOX W/DUPLEX RECEPTACLE		SPECIAL RECEPTACLE W/NEMA CONFIGURATION AS NOTED
	CLOCK RECEPTACLE		MULTI-OUTLET ASSEMBLY	POWER DEVICE AND CONTROLS			
	THERMOSTAT		DISCONNECT SWITCH. 30A-3P, NON-FUSED EXCEPT AS NOTED		MANUAL MOTOR STARTER		MAGNETIC MOTOR STARTER
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH		MOTOR		PANELBOARD (SEE ONE-LINE)		DISTRIBUTION PANELBOARD
	CONTACTOR		AUTOMATIC TRANSFER SWITCH		PHOTOCELL		JUNCTION BOX
	PUSHBUTTON		TRANSFORMER	ABBREVIATIONS			
A	AMPS, AIR (COMPRESSED)	DX	DIRECT EXPANSION	HTG	HEATING	MUAF	MAKE UP AIR FAN
A/C	AIR CONDITIONING	EA	EXHAUST AIR	HTR	HEATER	MV	MIXING VALVE
AD	AREA DRAIN, ACCESS DOOR	EAT	ENTERING AIR TEMPERATURE	HVU	HEATING AND VENTILATING UNIT	N	NITROGEN
AF	ABOVE FINISH CEILING	EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	HW	DOMESTIC HOT WATER	N/A	NOT APPLICABLE
AFG	ABOVE FINISH GRADE	EF	EXHAUST FAN	HWR	HOT WATER RETURN	N/C	NORMALLY CLOSED
AHU	AIR HANDLING UNIT	EM	INDICATES EMERGENCY CIRCUIT	HWS	HOT WATER SUPPLY	N/O	NORMALLY OPEN
AF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	IE	INVERT ELEVATION	IF	INDICATES NON-FUSED DEVICE
BD	BACKDRAFT DAMPER, BLOWDOWN	ER	EXHAUST REGISTER	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	ETR	EXISTING TO REMAIN	KCMIL	1000 CIRCULAR MILS	NL	NIGHT LIGHT
BKR	BREAKER	EWB	ENTERING WET BULB	KV	KILOVOLT	NO	NITROUS OXIDE
BOD	BOTTOM OF DUCT	EW	ELECTRIC WATER COOLER	KVA	KILOVOLT AMPS	OA	OUTSIDE AIR
BOP	BOTTOM OF PIPE	EW	ELECTRIC WATER HEATER, ELEC. WALL HTR.	KW	KILOWATT	ORD	OVERFLOW ROOF DRAIN
BOS	BOTTOM OF STRUCTURE	EXH	EXHAUST	KWH	KILOWATT HOUR	OX	OXYGEN
BTU	BRITISH THERMAL UNIT	F/S	COMBINATION FIRE AND SMOKE DAMPER	LAT	LEAVING AIR TEMPERATURE	PD	PUMP DISCHARGE
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	LDB	LEAVING DRY BULB	PH	PHASE
CATV	CABLE TELEVISION SYSTEM	FAACP	FIRE ALARM ANNUNCIATOR CONTROL PANEL	LP	LIQUIFIED PETROLEUM	PIV	POST INDICATOR VALVE
CB	CIRCUIT BREAKER	FCO	FLOOR CLEANOUT	LRA	LOCKED ROTOR AMPS	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	FCU	FAN COIL UNIT	LV	LOW VOLTAGE	PRV	PRESSURE REDUCING VALVE
CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER, FLOOR DRAIN	LWB	LEAVING WET BULB	QTY	QUANTITY
CHWR	CHILLED/HOT WATER RETURN	FLA	FULL LOAD AMPS	LWT	LEAVING WATER TEMPERATURE	RA	RETURN AIR
CHWS	CHILLED/HOT WATER SUPPLY	FLR	FLOOR	MA	MEDICAL AIR	RD	ROOF DRAIN
CKT	CIRCUIT	FOS	FUEL OIL RETURN	MAU	MAKE UP AIR UNIT	REV	REVISION
CO	CLEANOUT, CARBON MONOXIDE	FOS	FUEL OIL SUPPLY	MBH	1000 BTU PER HOUR	RG	RETURN GRILLE
CO2	CARBON DIOXIDE	FP	FIRE PROTECTION	MC	MECHANICAL CONTRACTOR	RH	RELATIVE HUMIDITY
CTR	COOLING TOWER RETURN	FPB	FAN POWERED TERMINAL UNIT	MCA	MINIMUM CIRCUIT AMPACITY	RHW	DOMESTIC RECIRCULATION HOT WATER
CTS	COOLING TOWER SUPPLY	FPVAV	FAN POWERED TERMINAL UNIT	MCC	MOTOR CONTROL CENTER	RL	REFRIGERANT LIQUID
CU	COPPER, CONDENSING UNIT	FS	FLOOR SINK	MD	MOTORIZED DAMPER	RLA	RUNNING LOAD AMPS
CUH	CABINET UNIT HEATER	G	GAS (NATURAL), GROUND	MDP	MAIN DISTRIBUTION PANEL	RPM	REVOLUTIONS PER MINUTE
CW	DOMESTIC COLD WATER	GO	GRADE CLEANOUT	MFR	MANUFACTURER	RS	REFRIGERANT SUCTION
CWR	CHILLED WATER RETURN	GF/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MH	MANHOLE	RTN	LOW PRESSURE CONDENSATE RETURN
CWS	CHILLED WATER SUPPLY	GND	GROUND	MLO	MAIN LUGS ONLY	RTU	ROOF TOP UNIT
DDC	DIRECT DIGITAL CONTROL	GPM	GALLONS PER MINUTE	MTD	MOUNTED	SA	SUPPLY AIR
DD	DECK DRAIN	HB	HOSE BIBB	MU	MAKE UP	SAN	SANITARY
DN	DOWN	HOA	HAND OFF AUTOMATIC				

ELECTRICAL SYMBOLS AND ABBREVIATIONS

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

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JOB NO: 23047
DRAWN BY: SBI
CHECKED BY: RJD
DATE: 06.23.2023



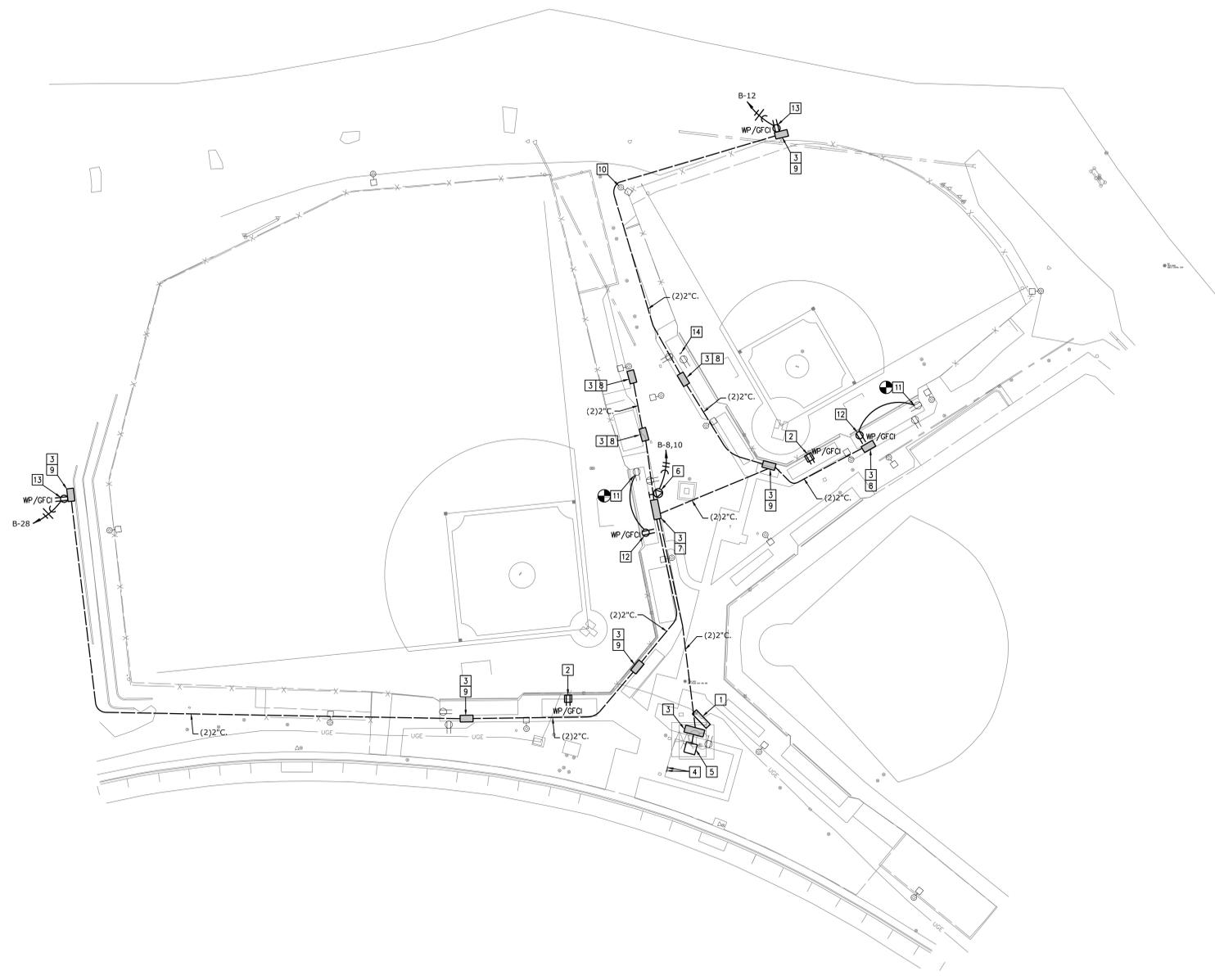
ME101

2314710 Liberty 53 2023 - UNIS Field Requirements
PROJECT NAME: LIBERTY PUBLIC SCHOOLS 53
LAST CORRECTION: 06/23/2023 8:52:55 AM
KRM/BJD
PLOTTER: HP DesignJet T1100e
DATE: 06/23/2023 8:54:35 AM
Bobby Berries

PANEL B (ETR)		AIC: 65,000 A		EQUIPMENT GROUND BUS			
MAIN BUS AMPS: 150 A		SECTIONS: 1 - 30 SPACE		SERVICE ENTRANCE			
MAIN BREAKER: 150 A		MOUNTING: SURFACE					
VOLTAGE: 208Y/120 V		ENCLOSURE TYPE: NEMA 1					
PHASES/WIRES: 3 PH / 4 W							
CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
	-	-	1	2	-	-	
	-	-	3	4	-	-	
	-	-	5	6	-	-	
SUB-PANEL S	3	50	7	8	50	2	DOCK SPECIAL RECEPTACLE
			9	10			
			11	12	20	1	SOFTBALL RECPT / FUTURE CAMERA
IRRIGATION CONTROL	1	20	13	14	20	2	SECURITY LIGHTS
SPECIAL RECEPTACLE	2	30	15	16			
			17	18	20	1	SCOREBOARD
FLAG POLE LIGHTING	1	20	19	20	20	1	PITCHING MACHINE
DUGOUT POWER	1	20	21	22	20	1	1ST BASE DUGOUTS
REFRIDGERATOR	1	20	23	24	20	1	FIELD RECEPTACLES
EXISTING LOAD	1	20	25	26	20	1	FIELD RECEPTACLES
EXISTING LOAD	1	20	27	28	20	1	BASEBALL RECPT / FUTURE CAMERA
SPACE			29	30			SPACE
ST - SHUNT TRP							

- GENERAL NOTES:**
- ALL BRANCH CIRCUITS TO BE PROVIDED WITH #10 AWG UNLESS NOTED OTHERWISE.
 - PRIOR TO CONSTRUCTION CONTRACTOR SHALL LOCATE ALL UTILITIES. (PRIVATE AND PUBLIC) IF "HT" CONTRACTOR IS RESPONSIBLE FOR REBUILD TO WORKING CONDITION. ALL REPAIRS SHALL BE APPROVED BY OWNER.
 - RESTORATION/REPAIR OF SITE: BACKFILL AND COMPACT EACH REMOVED LOCATION USING CS-1 MATERIALS (PEA GRAVEL IS ACCEPTABLE, BUT NOT SAND). COMPACT VIA POWER TAMPERS IN 6-INCH (MAXIMUM) LAYERS.
 - ALL TRENCHING SHALL BE BACKFILLED/COMPACTED LOCATION USING CS-1 MATERIALS (PEA GRAVEL IS ACCEPTABLE, BUT NOT SAND). COMPACT VIA POWER TAMPERS IN 6-INCH (MAXIMUM) LAYERS. REFER TO TRENCH DETAIL FOR ADDITIONAL INFORMATION.
 - REPAIR ALL ASPHALT/CONCRETE TO MATCH EXISTING. PROVIDE 6" ASPHALT (4" BASE & 2" BM2 TOP COURSE). OVERCUT ASPHALT BY 12" ON EACH SIDE OF TRENCH. REMOVE 6" P.C. CONCRETE. FIELD VERIFY PRIOR TO BID ALL WORK REQUIRED.
 - REPAIR/RESTORE ALL DIRT WORK BACK TO ORIGINAL GRADE. PROVIDE GRASS SEED/SOD AS REQUIRED.
 - ALL REPAIRS/PATCHING SHALL BE DONE BY A LICENSED
 - CONTRACTOR FROM THAT FIELD OF WORK. COORDINATE ALL LOCATIONS OF REQUIRED JUNCTION BOXES WITH OWNER PRIOR TO CONSTRUCTION. REFER TO IN-GRADE ELECTRICAL JUNCTION/PULL BOX DETAIL FOR ADDITIONAL INFORMATION.
 - PRIOR TO CONSTRUCTION VERIFY ACTUAL LOCATIONS OF NEW POLES WITH SPORTS LIGHTING MANUFACTURER. IF THERE IS EXISTING CIRCUMSTANCES THAT DO NOT ALLOW POLE TO BE INSTALLED AT THAT LOCATION REVISE POLE LOCATIONS AND COORDINATE WITH SPORTS LIGHTING MANUFACTURER.
 - ALL ELECTRICAL SPLICES/CONNECTIONS OUTSIDE SHALL USE ILSCO NIMBUS PRE-INSULATED CONNECTORS OR APPROVED EQUAL. IDENTIFICATION SHALL BE PROVIDED ON THE ENDS OF ALL CONDUCTORS INDICATING THE PANEL AND CIRCUIT NUMBER IN WHICH IT IS FED FROM.
 - ALL UNATTENDED HOLES/TRENCHES MUST BE FENCED OFF.
 - COORDINATE STAGING AREAS WITH OWNER IF REQUIRED.
 - ALL WORK SHOWN THIN LINE (HALF TONE) IS EXISTING, ALL WORK SHOWN THICK LINE (BOLD) IS NEW.
 - ALL WIRE AND CABLING ASSOCIATED WITH IRRIGATION SYSTEMS SCHEDULED TO BE REMOVED SHALL BE REMOVED BACK TO THE PANEL AND THE CIRCUIT BREAKERS SHALL BE MARKED AS SPARE. CUT AND CAP CONDUIT FLUSH WITH GRADE. RE: CIVIL DRAWINGS.

- PLAN NOTES:**
- LOCATION OF EXISTING ELECTRICAL GEAR AND PANEL "P".
 - EXISTING RECEPTACLE AND DATA ENCLOSURE TO BE REMOVED DURING DEMOLITION OF FENCE. CONDUIT STUB UPS AND CIRCUIT TO BE PROTECTED DURING DEMOLITION FOR REUSE. REMOVE EXISTING CABLING BACK TO IT CLOSET. CAP LOW VOLTAGE CONDUIT AT GRADE. PROVIDE GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND MOUNT LOW ON NEW FENCE.
 - PROVIDE DIVIDED ASSEMBLY QUAZITE BOX SERIES PG17302611 OR EQUAL. MOUNT FLUSH WITH GRADE AT LOCATION SHOWN FOR FUTURE POWER AND DATA CONNECTIONS. COORDINATE EXACT LOCATION OF QUAZITE BOXES WITH LNHS FACILITIES PRIOR TO ROUGH-IN. PROVIDE (1) 2" CONDUIT OUT OF LINE VOLTAGE SIDE AND (1) 2" CONDUIT OUT OF LOW VOLTAGE SIDE OF DIVIDED ASSEMBLY QUAZITE BOX AND ROUTE AS SHOWN.
 - PANEL CR AND CM LOCATED INSIDE CONCESSIONS STAND.
 - IT RACK LOCATED IN EXISTING CONCESSIONS BUILDING.
 - PROVIDE NEMA L6-50 RECEPTACLE IN WEATHERPROOF ENCLOSURE. SURFACE MOUNT RECEPTACLE ON SIDE OF DUGOUT. CIRCUIT WITH 2#8, #10G, 3/4".
 - PROVIDE 24" X 24" X 8" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL606020 OR EQUAL. MOUNT ENCLOSURE TO SIDE OF DUGOUT NEXT TO QUAZITE BOX. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE.
 - PROVIDE 12" X 12" X 6" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL303015 OR EQUAL. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE.
 - PROVIDE 12" X 12" X 6" LOCKABLE WALL MOUNT ENCLOSURE, HOFFMAN SERIES ECL303015 OR EQUAL. PROVIDE UNISTRUT FOR MOUNTING. STUB UP (1) 2" CONDUIT FROM LOW VOLTAGE SIDE OF QUAZITE BOX INTO BOTTOM OF ENCLOSURE.
 - RE-AM EXISTING MUSCO SPORTS LIGHTING FIXTURE PER FIELD RECONFIGURATION.
 - CONNECT RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN DUGOUT.
 - RECEPTACLE TO BE PLACED IN IN DUGOUT SCORERS BOX UNDER THE COUNTERTOP.
 - MOUNT RECEPTACLE ON UNISTRUT OF WALL MOUNT ENCLOSURE.
 - LOCATION OF EXISTING PANEL 'B'.



ELECTRICAL - SITE PLAN
SCALE: 1" = 40'-0"

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Structure # 200901203

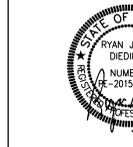
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JOB NO: 23047
DRAWN BY: SBI
CHECKED BY: RJJ
DATE: 06.23.2023



ME201

PROJECT NAME: 2314710 Liberty, SD 2023 - LNHS Field Replacements
LAST CORRECTION: 2314710 LNHS Field Replacements
DRAWN BY: SBI
CHECKED BY: RJJ
DATE: 06/23/2023 8:00:35 AM
Kaitlan Moringo
Wednesday, July 12, 2023 8:00:35 AM