

# LHS Baseball & Softball Upgrades

## Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

### CONSTRUCTION DOCUMET SET

INDEX OF DRAWINGS	SCOPE OF WORK - SUMMARY	VICINITY MAP	DESIGN TEAM
<div>GENERAL</div> <div>G000COVER SHEET</div> <div>DEMOLITION - CIVIL</div> <div>DC101CIVIL DEMOLITION PLAN</div> <div>DEMOLITION - MECHANICAL/ELECTRICAL</div> <div>DME201DEMOLITION ELEC. - SITE PLAN</div> <div>CIVIL</div> <div>C100CIVIL INFORMATION SHEET</div> <div>C101EXISTING CONDITIONS PLAN</div> <div>C102OVERALL UTILITY</div> <div>C103UTILITY PLAN (BASEBALL)</div> <div>C104UTILITY PLAN (MULTIPURPOSE)</div> <div>C105UTILITY PLAN (SOFTBALL)</div> <div>C106OVERALL PAVING PLAN</div> <div>C107PAVING PLAN (BASEBALL)</div> <div>C108PAVING PLAN (MULTIPURPOSE)</div> <div>C109PAVING PLAN (SOFTBALL)</div> <div>C110OVERALL GRADING PLAN</div> <div>C111GRADING PLAN (BASEBALL)</div> <div>C112GRADING PLAN (MULTIPURPOSE)</div> <div>C113GRADING PLAN (SOFTBALL)</div> <div>C114EROSION CONTROL PLAN</div> <div>C200UTILITY DETAILS</div> <div>C201PAVING DETAILS</div> <div>C202EROSION CONTROL DETAILS</div> <div>ARCHITECTURAL SITE</div> <div>AS101ARCHITECTURAL SITE PLAN - OVERALL</div> <div>AS111SITE PLAN - BASEBALL FIELD</div> <div>AS112SITE PLAN - MULTI-PUROPOSE FIELD</div> <div>AS113SITE PLAN - SOFTBALL</div> <div>AS681SCHEDULES AND MANUFACTURER'S FOOTING DETAILS</div> <div>STRUCTURAL</div> <div>S001GENERAL NOTES, LEGENDS, &amp; ABBREVIATIONS</div> <div>S002SPECIAL INSPECTIONS</div> <div>S101FOUNDATION PLAN - OVERALL</div> <div>S310WALL SECTIONS</div> <div>S311WALL SECTIONS</div> <div>S400ENLARGED FOUNDATION &amp; ROOF FRAMING PLANS</div> <div>S401ENLARGED FOUNDATION &amp; ROOF FRAMING PLANS</div> <div>S530TYPICAL CONCRETE DETAILS</div> <div>S540TYPICAL MASONRY DETAILS</div> <div>S541TYPICAL MASONRY DETAILS</div> <div>S560TYPICAL WOOD FRAMING DETAILS</div> <div>MECHANICAL/ELECTRICAL</div> <div>ME101SYMBOLS &amp; ABBREVIATION - ELEC.</div> <div>ME201ELEC. - SITE PLAN</div> <div>ME301SCHEDULES AND DETAILS - ELEC.</div>	<p>THE SCOPE OF THIS PROJECT IS TO CONVERT EXISTING BASEBALL, SOFTBALL AND MULTI-PURPOSE PLAYING FIELDS FROM NATURAL GRASS TO SYNTHETIC TURF. THE MULTI-PURPOSE FILE SHALL ONLY CONVERT THE INFIELD TO SYNTHETIC TURF, WHEREAS THE OUTFIELD SHALL BE REGRADED AND BE REPLANTED AS NATURAL GRASS. RELATED TO THE CONVERSION WILL BE NEW PERIMETER FENCING AND BACKSTOP NETTING.</p> <p>DUGOUT STRUCTURES AT SOFTBALL FIELD AND MULTIPURPOSE FIELD SHALL BE DEMOLISHED. NEW DUGOUT STRUCTURES WILL BE CONSTRUCTED AT THE SOFTBALL FIELD AND REPRESENT THE ONLY VERTICAL CONSTRUCTION TO TAKE PLACE ON THIS SITE. PRE-MANUFACTURED DUGOUT UNITS WILL BE PLACED AT THE MULTI-PURPOSE FIELD. THERE ARE A FEW VERTICAL ELEMENTS (POLES) WHICH WILL BE SET AS PART OF THIS WORK.</p> <p>NO SPECTATOR SEATING CAPACITY WILL BE AFFECTED AS PART OF THIS WORK.</p>		<p><b>ARCHITECT:</b> Hollis + Miller Architects 1828 Walnut Street Ste 922 Kansas City, MO 64108 CONTACT: Grant Thome PHONE: 816.442.7700</p> <p><b>CONSTRUCTION MANAGER:</b> Newkirk Novak 11200 W 79th Street Lenexa, KS 66214 CONTACT: Brandon Stanley PHONE: 913.312.9535</p> <p><b>CIVIL ENGINEER:</b> MKEC 11827 W 112th St, Ste 200 Overland Park, KS 66210 CONTACT: Braden Taylor PHONE: 913.317.9390</p> <p><b>STRUCTURAL ENGINEER:</b> Hollis + Miller Architects 1828 Walnut Street Ste 922 Kansas City, MO 64108 CONTACT: Lilly Riehl PHONE: 816.442.7700</p> <p><b>MECH/ELECT ENGINEER:</b> Smith &amp; Boucher 25618 W 103rd St Olathe, KS 66061 CONTACT: Ryan Diediker PHONE: 913.345.2127</p>
<div>ALTERNATES</div> <div>ALTERNATE No. 1 (23023.00 LHS) - ADD COVERED SCORER'S BOX AT SOUTH END OF HOME DUGOUT</div> <div>ALTERNATE No. 2 (23047.00 LNHS) - RETROFIT SCORER'S BOX INTO VISITING BASEBALL AND SOFTBALL DUGOUT</div> <div>ALTERNATE No. 3 (23047.00 LNHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING AND ASSOCIATED FOOTINGS</div> <div>ALTERNATE No. 4 (23047.00 LNHS) - ADD CHAMPIONWALL AND ASSOCIATED FOOTINGS AT BASEBALL FIELD IN LIEU OF 8'-0" BLACK PVC FENCE</div> <div>ALTERNATE No. 5 (23023.00 LHS) - CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF AND INSTALL BACKSTOP NETTING AND ASSOCIATED FOOTINGS</div>			

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CONSTRUCTION DOCUMENTS

LHS Baseball & Softball Upgrades  
Liberty Public Schools 53  
200 Blue Jay Drive  
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REVISIONS:

#	Description	Date
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STATE OF MISSOURI  
KEVIN E. NELSON  
A-2019015618  
ARCHITECT  
JULY 12, 2023

The Professional Architects and Engineers who affix their stamp approve only the design and items shown on this sheet. All drawings, specifications and other documents are submitted to and approved by the state and are the property of the architect, and this architect expressly disclaims any and all responsibility for such plans, drawings, or documents not existing herein.

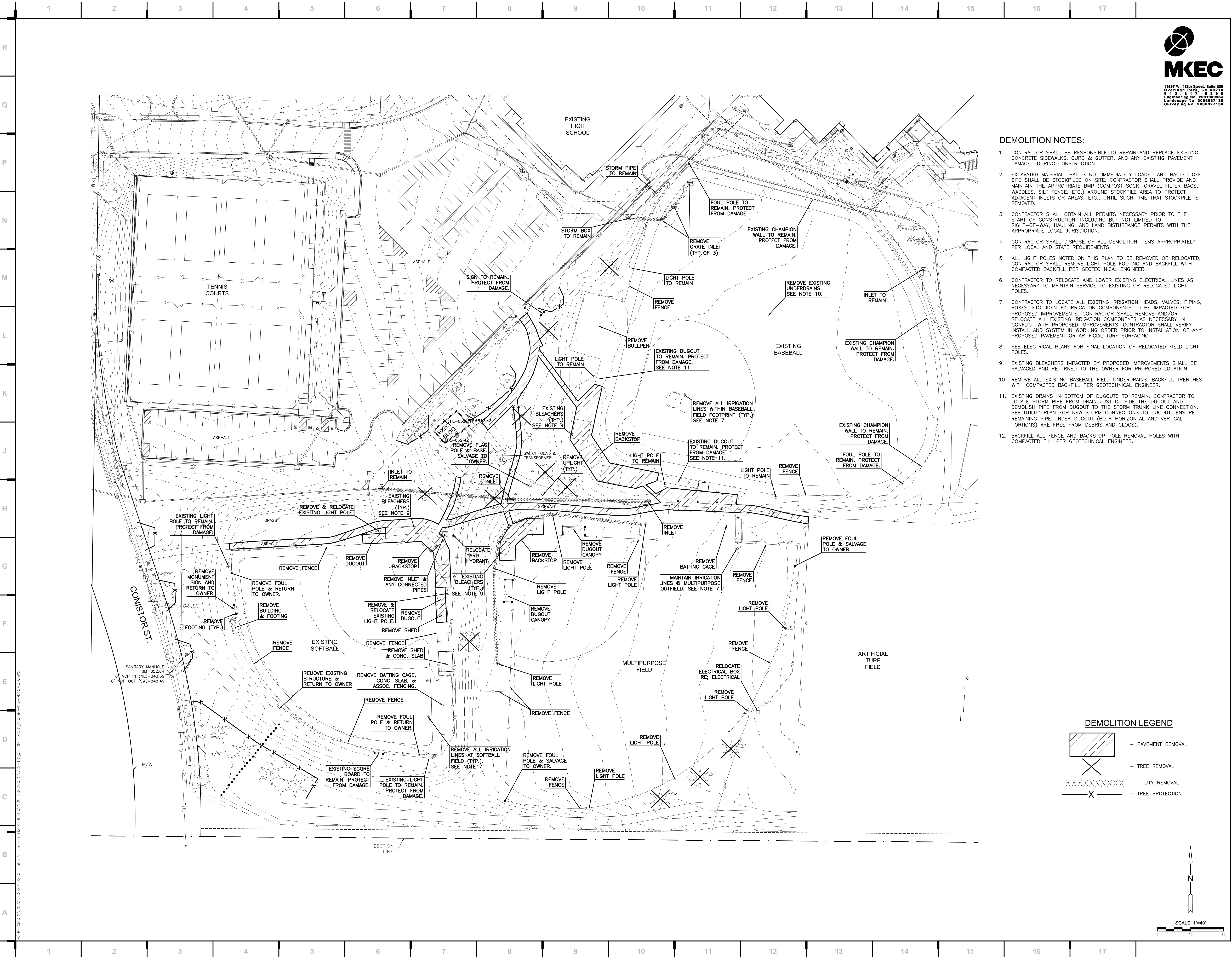
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**DEMOLITION NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND REPLACE EXISTING CONCRETE SIDEWALKS, CURB & GUTTER, AND ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION.
2. EXCAVATED MATERIAL THAT IS NOT IMMEDIATELY LOADED AND HAULED OFF SITE SHALL BE STOCKPILED ON SITE. CONTRACTOR SHALL PROVIDE AND MAINTAIN THE APPROPRIATE BMP (COMPOST SOCK, GRAVEL FILTER BAGS, WADDLES, SILT FENCE, ETC.) AROUND STOCKPILE AREA TO PROTECT ADJACENT INLETS OR AREAS, ETC., UNTIL SUCH TIME THAT STOCKPILE IS REMOVED.
3. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, RIGHT-OF-WAY, HAULING, AND LAND DISTURBANCE PERMITS WITH THE APPROPRIATE LOCAL JURISDICTION.
4. CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION ITEMS APPROPRIATELY PER LOCAL AND STATE REQUIREMENTS.
5. ALL LIGHT POLES NOTED ON THIS PLAN TO BE REMOVED OR RELOCATED. CONTRACTOR SHALL REMOVE LIGHT POLE FOOTING AND BACKFILL WITH COMPACTED BACKFILL PER GEOTECHNICAL ENGINEER.
6. CONTRACTOR TO RELOCATE AND LOWER EXISTING ELECTRICAL LINES AS NECESSARY TO MAINTAIN SERVICE TO EXISTING OR RELOCATED LIGHT POLES.
7. CONTRACTOR TO LOCATE ALL EXISTING IRRIGATION HEADS, VALVES, PIPING, BOXES, ETC. IDENTIFY IRRIGATION COMPONENTS TO BE IMPACTED FOR PROPOSED IMPROVEMENTS. CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING IRRIGATION COMPONENTS AS NECESSARY IN CONFLICT WITH PROPOSED IMPROVEMENTS. CONTRACTOR SHALL VERIFY INSTALL AND SYSTEM IN WORKING ORDER PRIOR TO INSTALLATION OF ANY PROPOSED PAVEMENT OR ARTIFICIAL TURF SURFACING.
8. SEE ELECTRICAL PLANS FOR FINAL LOCATION OF RELOCATED FIELD LIGHT POLES.
9. EXISTING BLEACHERS IMPACTED BY PROPOSED IMPROVEMENTS SHALL BE SALVAGED AND RETURNED TO THE OWNER FOR PROPOSED LOCATION.
10. REMOVE ALL EXISTING BASEBALL FIELD UNDERDRAINS. BACKFILL TRENCHES WITH COMPACTED BACKFILL PER GEOTECHNICAL ENGINEER.
11. EXISTING DRAINS IN BOTTOM OF DUGOUTS TO REMAIN. CONTRACTOR TO LOCATE STORM PIPE FROM DRAIN JUST OUTSIDE THE DUGOUT AND DEMOLISH PIPE FROM DUGOUT TO THE STORM TRUNK LINE CONNECTION. SEE UTILITY PLAN FOR NEW STORM CONNECTIONS TO DUGOUT. ENSURE REMAINING PIPE UNDER DUGOUT (BOTH HORIZONTAL AND VERTICAL PORTIONS) ARE FREE FROM DEBRIS AND CLOGS).
12. BACKFILL ALL FENCE AND BACKSTOP POLE REMOVAL HOLES WITH COMPACTED FILL PER GEOTECHNICAL ENGINEER.

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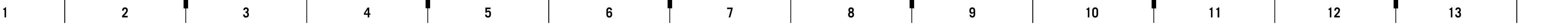
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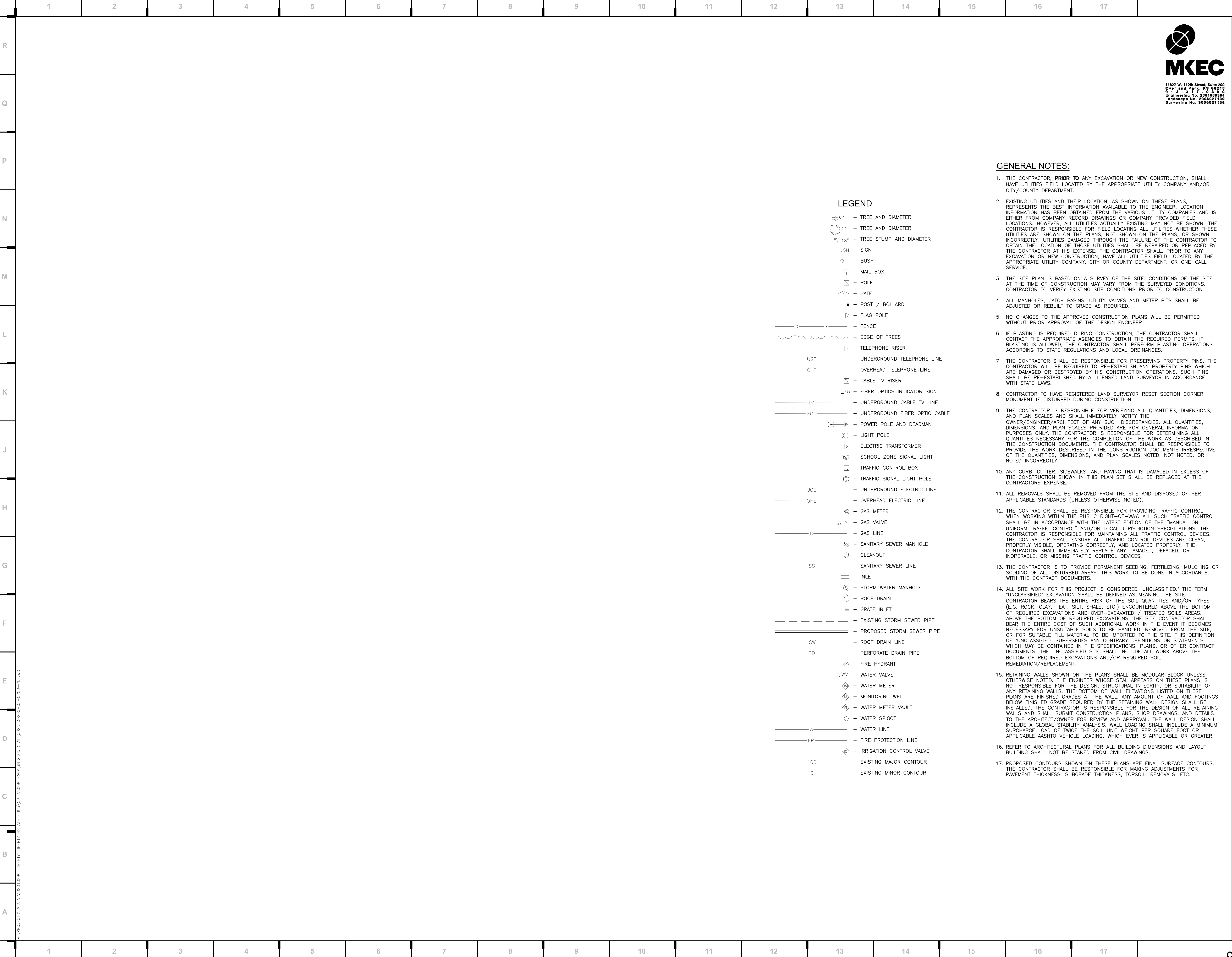


## DEMOLITION ELEC. - SITE PLAN

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PROJECT NAME:	AUTOGAD FILE LOCATION \ NAME:	LAST CORRECTION BY ♦ DATE ♦ TIME:	PLOTTED BY ♦ DATE ♦ TIME:
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		Wednesday, July 12, 2023 10:13:50 AM	Wednesday, July 12, 2023 10:14:22 AM





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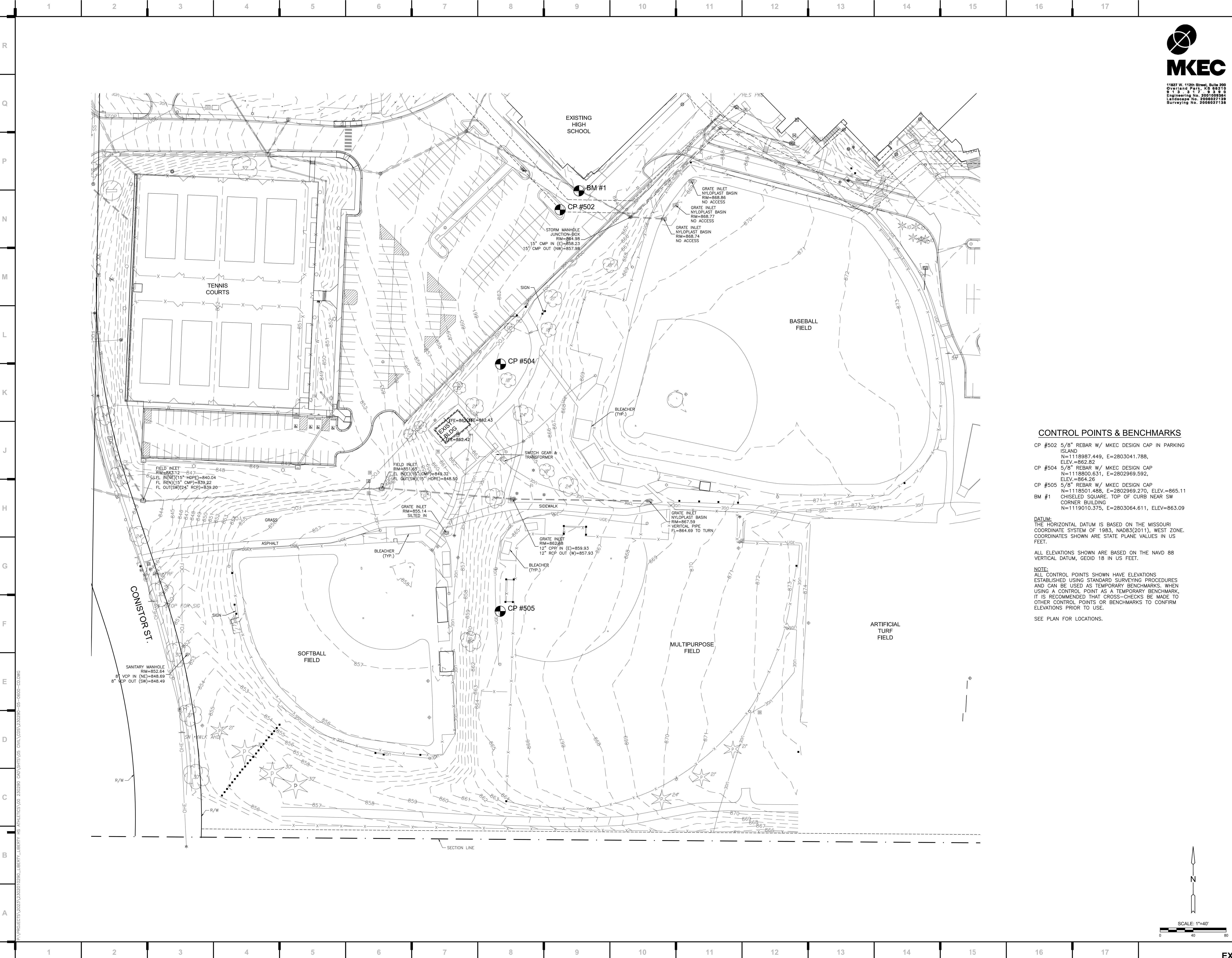


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### CONTROL POINTS & BENCHMARKS

CP #502 5/8" REBAR W/ MKEC DESIGN CAP IN PARKING ISLAND  
N=1118987.449, E=2803041.788,  
ELEV.=862.82  
CP #504 5/8" REBAR W/ MKEC DESIGN CAP  
N=1118800.631, E=2802969.592,  
ELEV.=864.26  
CP #505 5/8" REBAR W/ MKEC DESIGN CAP  
N=1118501.488, E=2802969.270, ELEV.=865.11  
BM #1 CHISELED SQUARE, TOP OF CURB NEAR SW CORNER BUILDING  
N=1119010.375, E=2803064.611, ELEV.=863.09

**DATUM:**  
THE HORIZONTAL DATUM IS BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, NAD83(2011), WEST ZONE. COORDINATES SHOWN ARE STATE PLANE VALUES IN US FEET.

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88 VERTICAL DATUM, GEOID 18 IN US FEET.

**NOTE:**  
ALL CONTROL POINTS SHOWN HAVE ELEVATIONS ESTABLISHED USING STANDARD SURVEYING PROCEDURES AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN USING A CONTROL POINT AS A TEMPORARY BENCHMARK, IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM ELEVATIONS PRIOR TO USE.

SEE PLAN FOR LOCATIONS.

### LHS Baseball & Softball Upgrades

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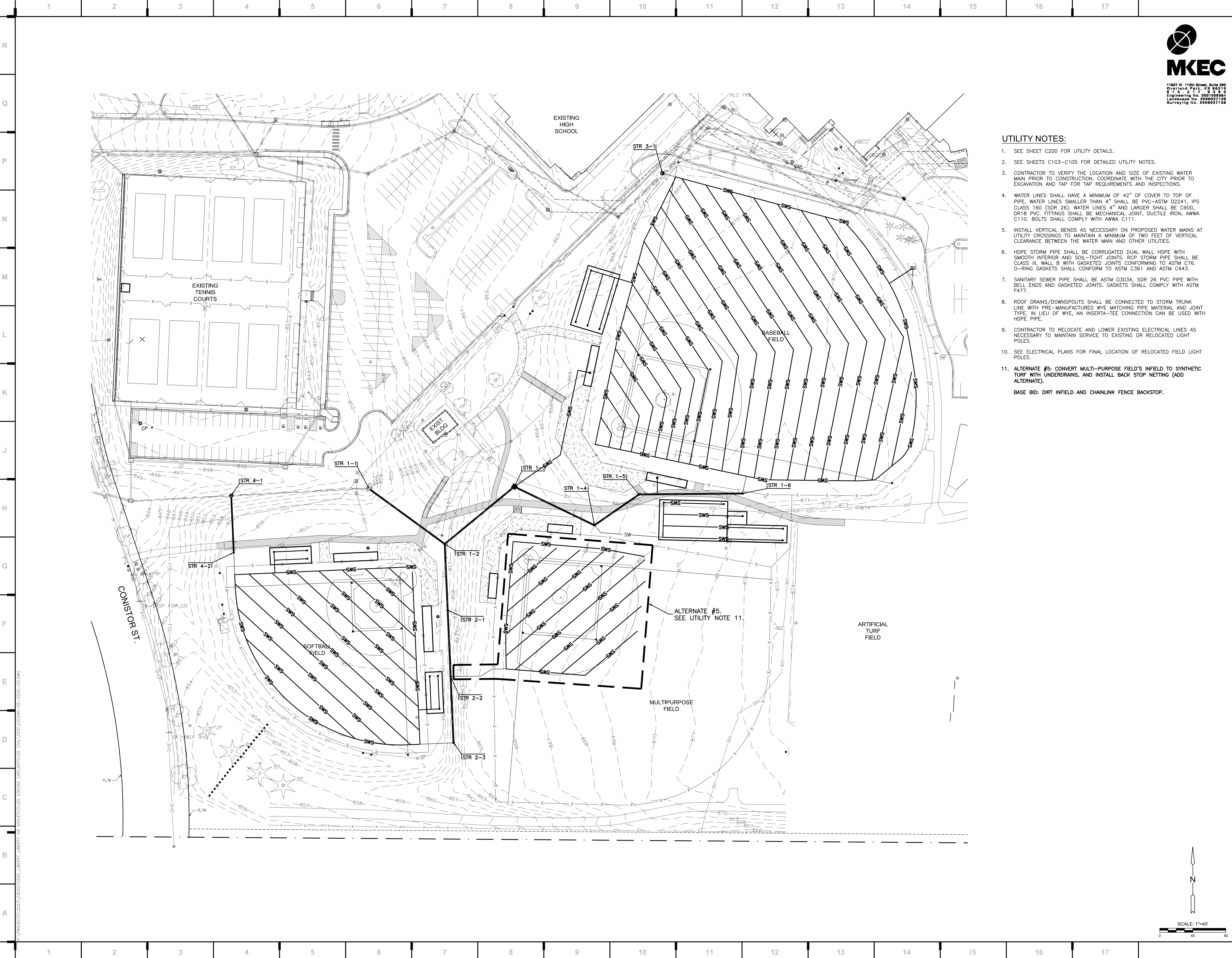


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#### UTILITY NOTES:

1. SEE SHEET C200 FOR UTILITY DETAILS.
  2. SEE SHEETS C103--C105 FOR DETAILED UTILITY NOTES.
  3. CONTRACTOR TO VERIFY THE LOCATION AND SIZE OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION. COORDINATE WITH THE CITY PRIOR TO EXCAVATION AND TAP FOR TAP REQUIREMENTS AND INSPECTIONS.
  4. WATER LINES SHALL HAVE A MINIMUM OF 42" OF COVER TO TOP OF PIPE. WATER LINES SMALLER THAN 4" SHALL BE PVC-ASTM D2241, IPS CLASS 150 (SDR 26). WATER LINES 4" AND LARGER SHALL BE C900, DR18 PVC. FITTINGS SHALL BE MECHANICAL JOINT, DUCTILE IRON, AWWA C110. BOLTS SHALL COMPLY WITH AWWA C111.
  5. INSTALL VERTICAL BENDS AS NECESSARY ON PROPOSED WATER MAINS AT UTILITY CROSSINGS TO MAINTAIN A MINIMUM OF TWO FEET OF VERTICAL CLEARANCE BETWEEN THE WATER MAIN AND OTHER UTILITIES.
  6. HDPE STORM PIPE SHALL BE CORRUGATED DUAL WALL HDPE WITH SMOOTH INTERIOR AND SOIL-TIGHT JOINTS. RCP STORM PIPE SHALL BE CLASS III, WALL B WITH GASKETED JOINTS CONFORMING TO ASTM C76. O-RING GASKETS SHALL CONFORM TO ASTM C361 AND ASTM C443.
  7. SANITARY SEWER PIPE SHALL BE ASTM D3034, SDR 26 PVC PIPE WITH BELL ENDS AND GASKETED JOINTS. GASKETS SHALL COMPLY WITH ASTM F477.
  8. ROOF DRAINS/DOWNSPOUTS SHALL BE CONNECTED TO STORM TRUNK LINE WITH PRE-MANUFACTURED WYE MATCHING PIPE MATERIAL AND JOINT TYPE. IN LIEU OF WYE, AN INSERTA-TEE CONNECTION CAN BE USED WITH HDPE PIPE.
  9. CONTRACTOR TO RELOCATE AND LOWER EXISTING ELECTRICAL LINES AS NECESSARY TO MAINTAIN SERVICE TO EXISTING OR RELOCATED LIGHT POLES.
  10. SEE ELECTRICAL PLANS FOR FINAL LOCATION OF RELOCATED FIELD LIGHT POLES.
  11. ALTERNATE #5: CONVERT MULTI-PURPOSE FIELD'S INFIELD TO SYNTHETIC TURF WITH UNDERDRAINS, AND INSTALL BACK STOP NETTING (ADD ALTERNATE).
- BASE BID: DIRT INFELD AND CHAINLINK FENCE BACKSTOP.

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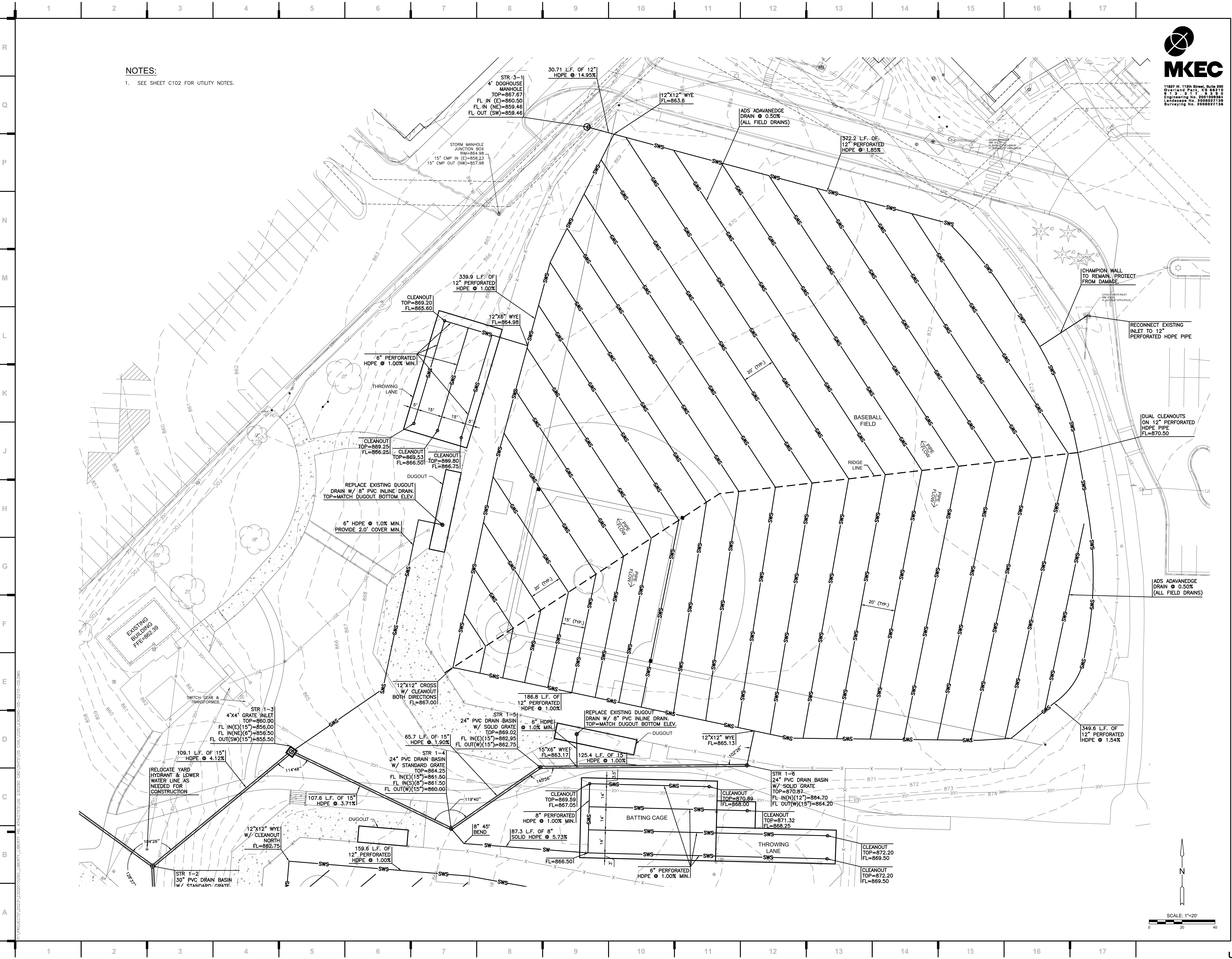


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# C102





NOTES:  
1. SEE SHEET C102 FOR UTILITY NOTES.



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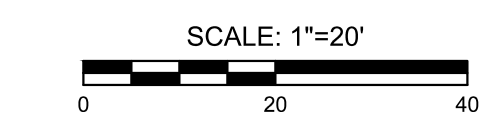
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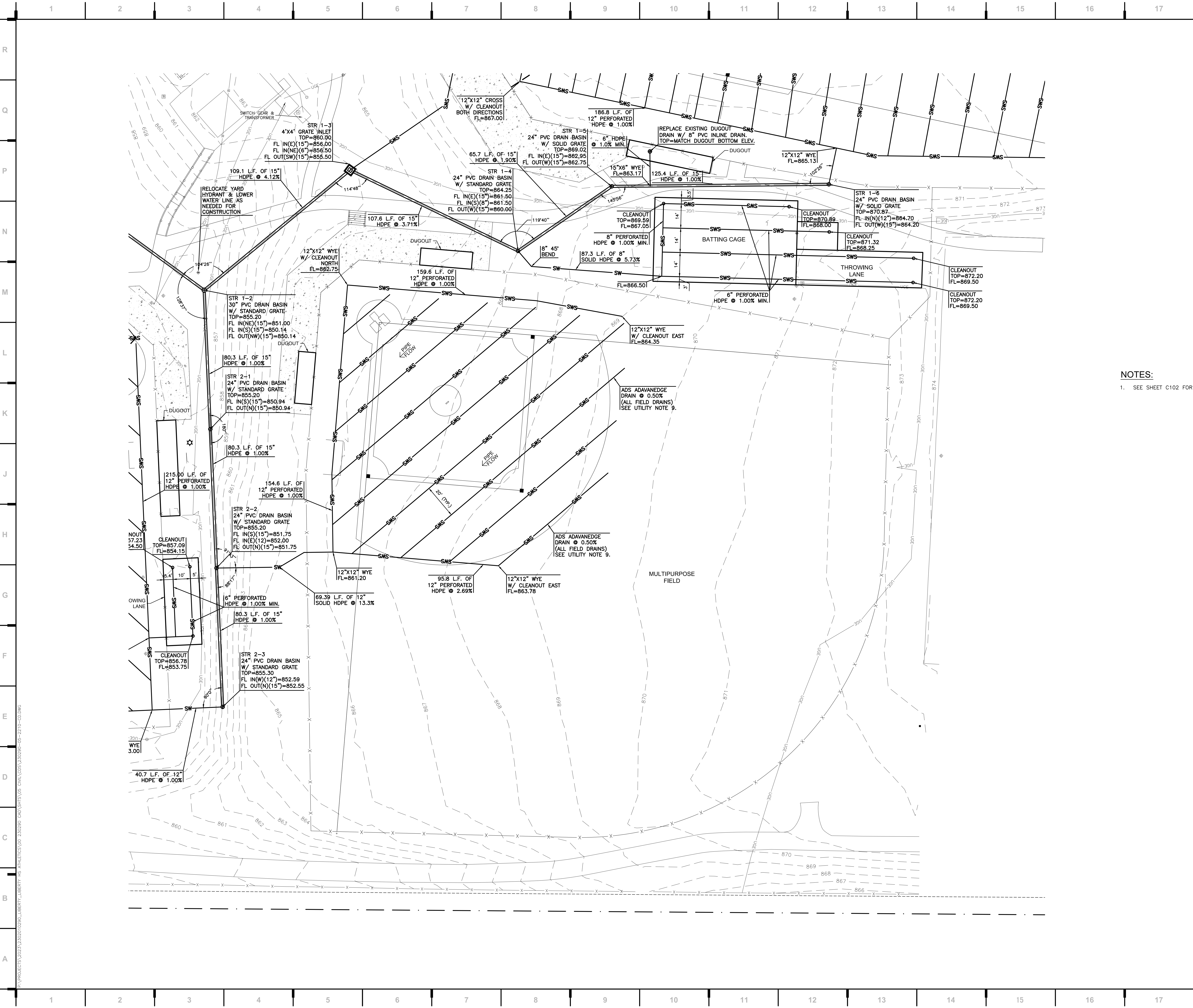
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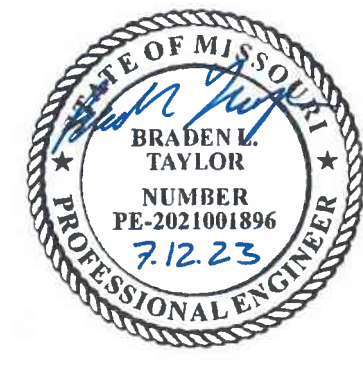
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NOTES:  
1. SEE SHEET C102 FOR UTILITY NOTES.

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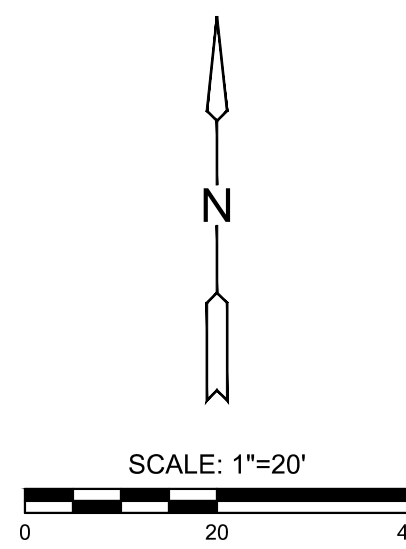
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C104








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### UTILITY PLAN (SOFTBALL)

1. SEE SHEET C102 FOR UTILITY NOTES.

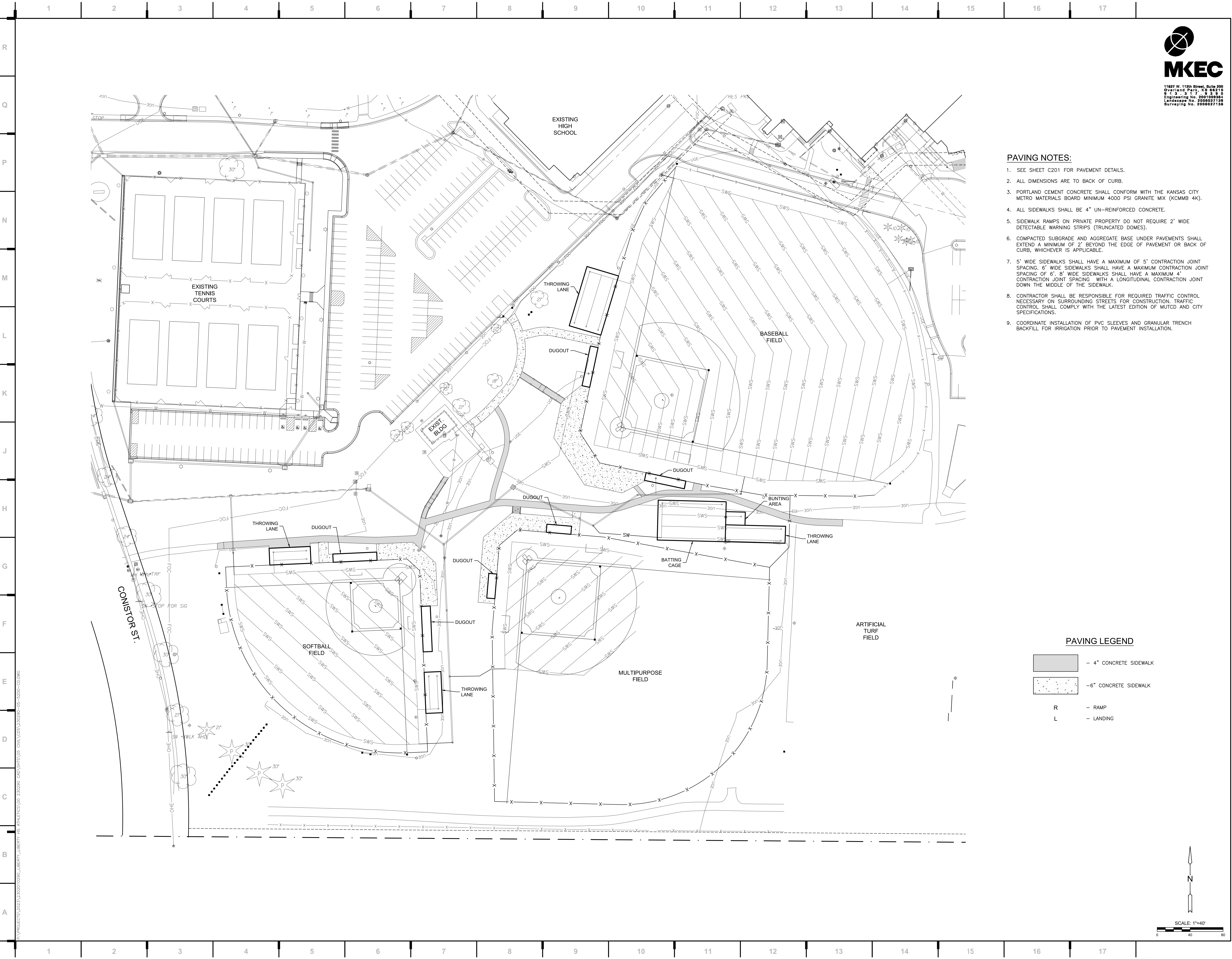
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A horizontal scale bar with alternating black and white segments. It is marked with '0' at the left end, '20' in the middle, and '40' at the right end.

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### PAVING NOTES:

1. SEE SHEET C201 FOR PAVEMENT DETAILS.
2. ALL DIMENSIONS ARE TO BACK OF CURB.
3. PORTLAND CEMENT CONCRETE SHALL CONFORM WITH THE KANSAS CITY METRO MATERIALS BOARD MINIMUM 4000 PSI GRANITE MIX (KCMMB 4K).
4. ALL SIDEWALKS SHALL BE 4" UN-REINFORCED CONCRETE.
5. SIDEWALK RAMPS ON PRIVATE PROPERTY DO NOT REQUIRE 2' WIDE DETECTABLE WARNING STRIPS (TRUNCATED DOMES).
6. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
7. 5' WIDE SIDEWALKS SHALL HAVE A MAXIMUM OF 5' CONTRACTION JOINT SPACING. 6' WIDE SIDEWALKS SHALL HAVE A MAXIMUM CONTRACTION JOINT SPACING OF 6'. 8' WIDE SIDEWALKS SHALL HAVE A MAXIMUM 4' CONTRACTION JOINT SPACING WITH A LONGITUDINAL CONTRACTION JOINT DOWN THE MIDDLE OF THE SIDEWALK.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TRAFFIC CONTROL NECESSARY ON SURROUNDING STREETS FOR CONSTRUCTION. TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF MUTCD AND CITY SPECIFICATIONS.
9. COORDINATE INSTALLATION OF PVC SLEEVES AND GRANULAR TRENCH BACKFILL FOR IRRIGATION PRIOR TO PAVEMENT INSTALLATION.

### PAVING LEGEND

- 4" CONCRETE SIDEWALK
- 6" CONCRETE SIDEWALK
- R - RAMP
- L - LANDING

## LHS Baseball & Softball Upgrades

Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

REVISIONS:		
#	Description	Date

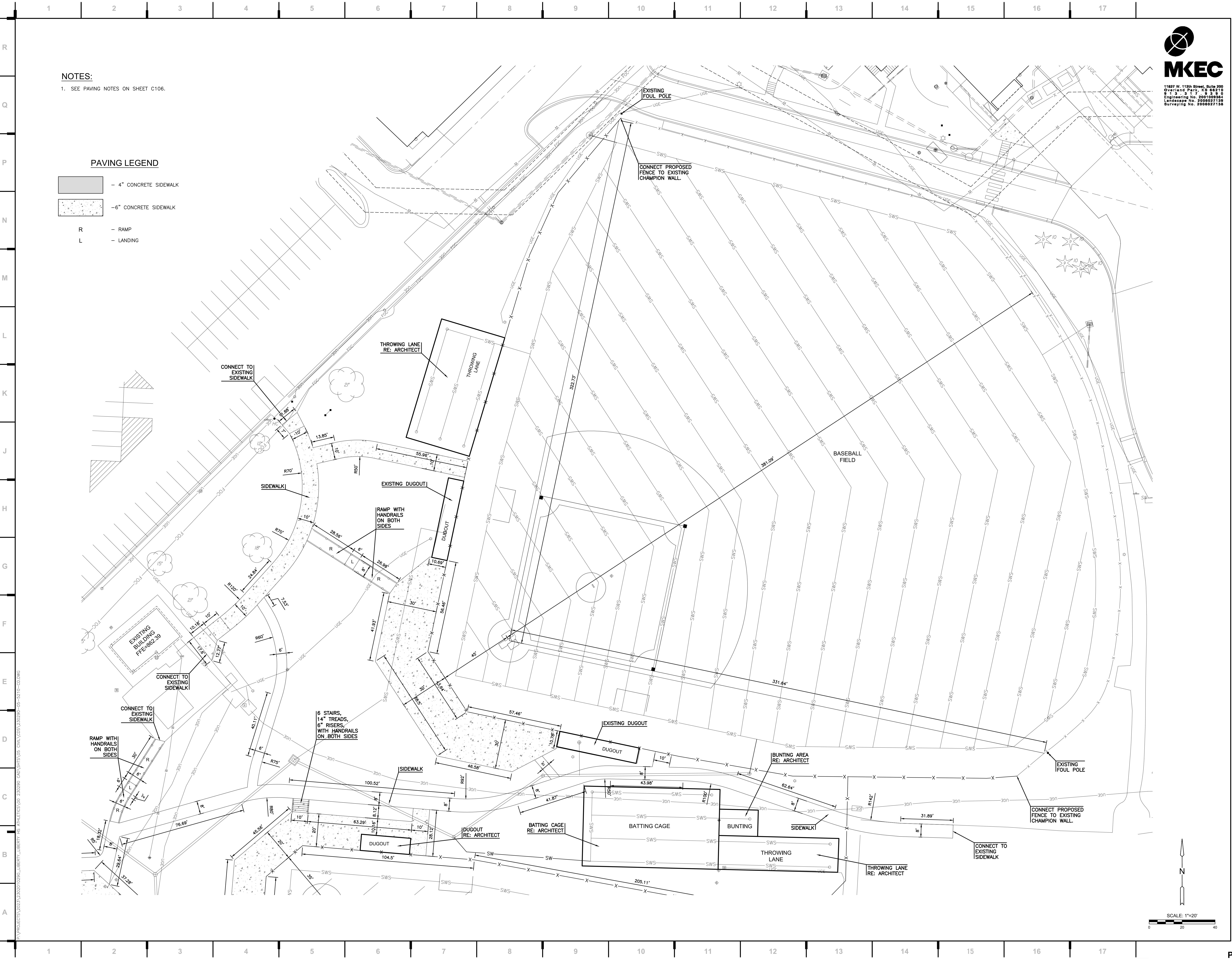


BRADEN L. TAYLOR  
LIC# 2021001896

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# C106





NOTES:  
1. SEE PAVING NOTES ON SHEET C106.

- PAVING LEGEND**
- 4" CONCRETE SIDEWALK
  - 6" CONCRETE SIDEWALK
  - R - RAMP
  - L - LANDING

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**LHS Baseball & Softball Upgrades**

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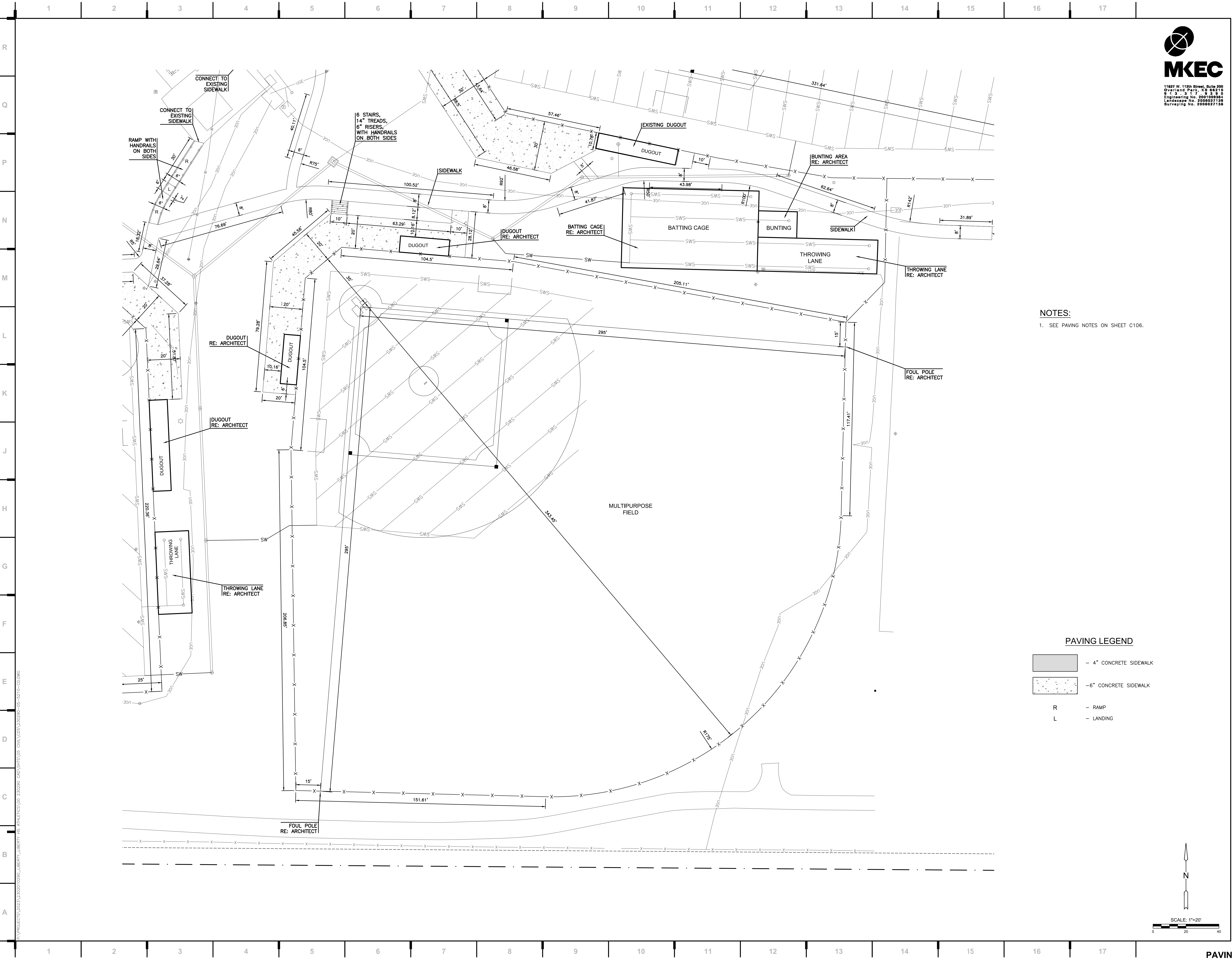


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**C107**

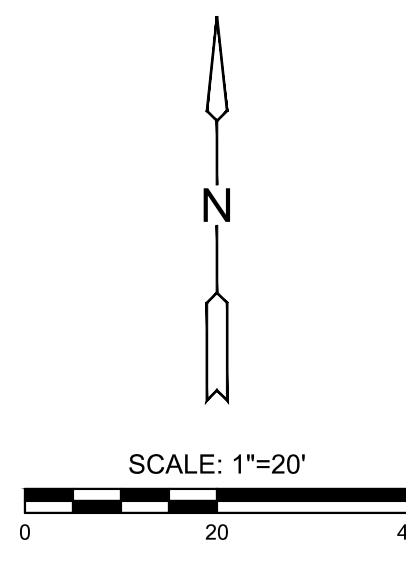




NOTES:  
1. SEE PAVING NOTES ON SHEET C106.

PAVING LEGEND

- 4" CONCRETE SIDEWALK
- 6" CONCRETE SIDEWALK
- R - RAMP
- L - LANDING



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LHS Baseball & Softball Upgrades  
Liberty Public Schools 53  
200 Blue Jay Drive  
Liberty, MO 64068

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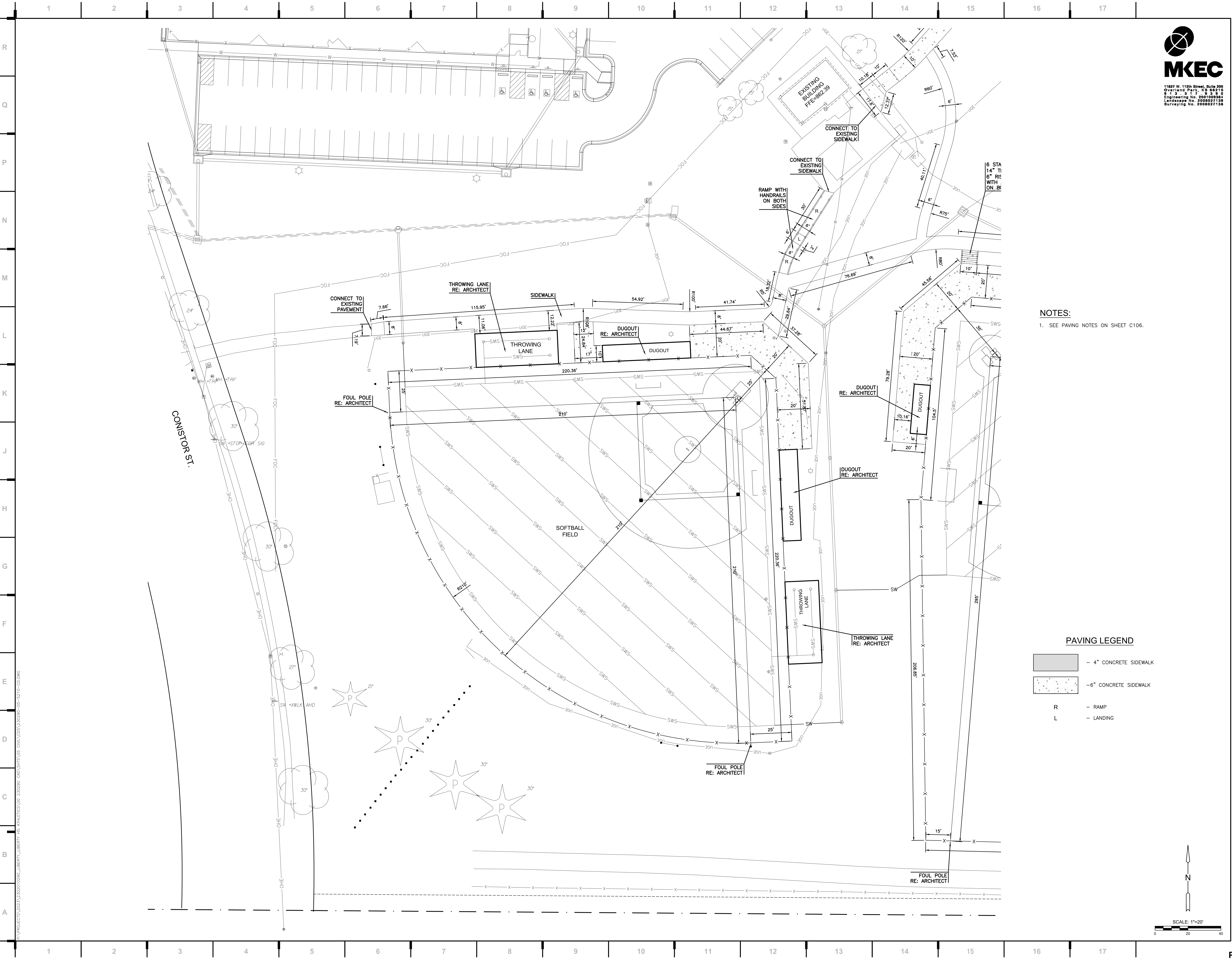
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**BRADEN L. TAYLOR**  
LIC# 2021001896  
The Professional Engineer and others who are duly qualified may be authorized to prepare and seal drawings for the Engineer's use only. The Engineer shall be responsible for the accuracy and completeness of the drawings and shall be liable for any errors or omissions. The Engineer shall not be responsible for the accuracy or completeness of the drawings prepared by others who are not duly qualified.

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**C108**

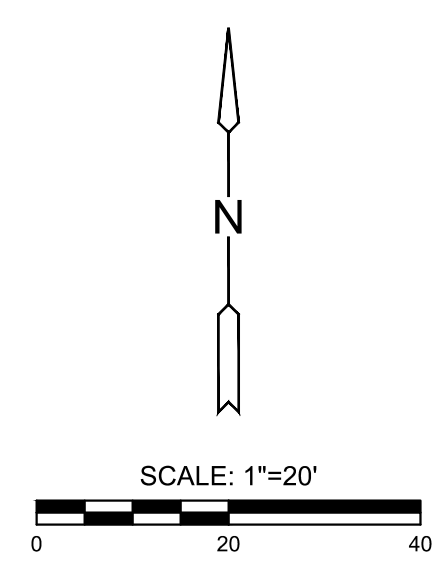




NOTES:  
1. SEE PAVING NOTES ON SHEET C106.

PAVING LEGEND

- 4" CONCRETE SIDEWALK
- 6" CONCRETE SIDEWALK
- R - RAMP
- L - LANDING



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Structure # 200001333

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LHS Baseball & Softball Upgrades

Liberty Public Schools 53  
200 Blue Jay Drive  
Liberty, MO 64068

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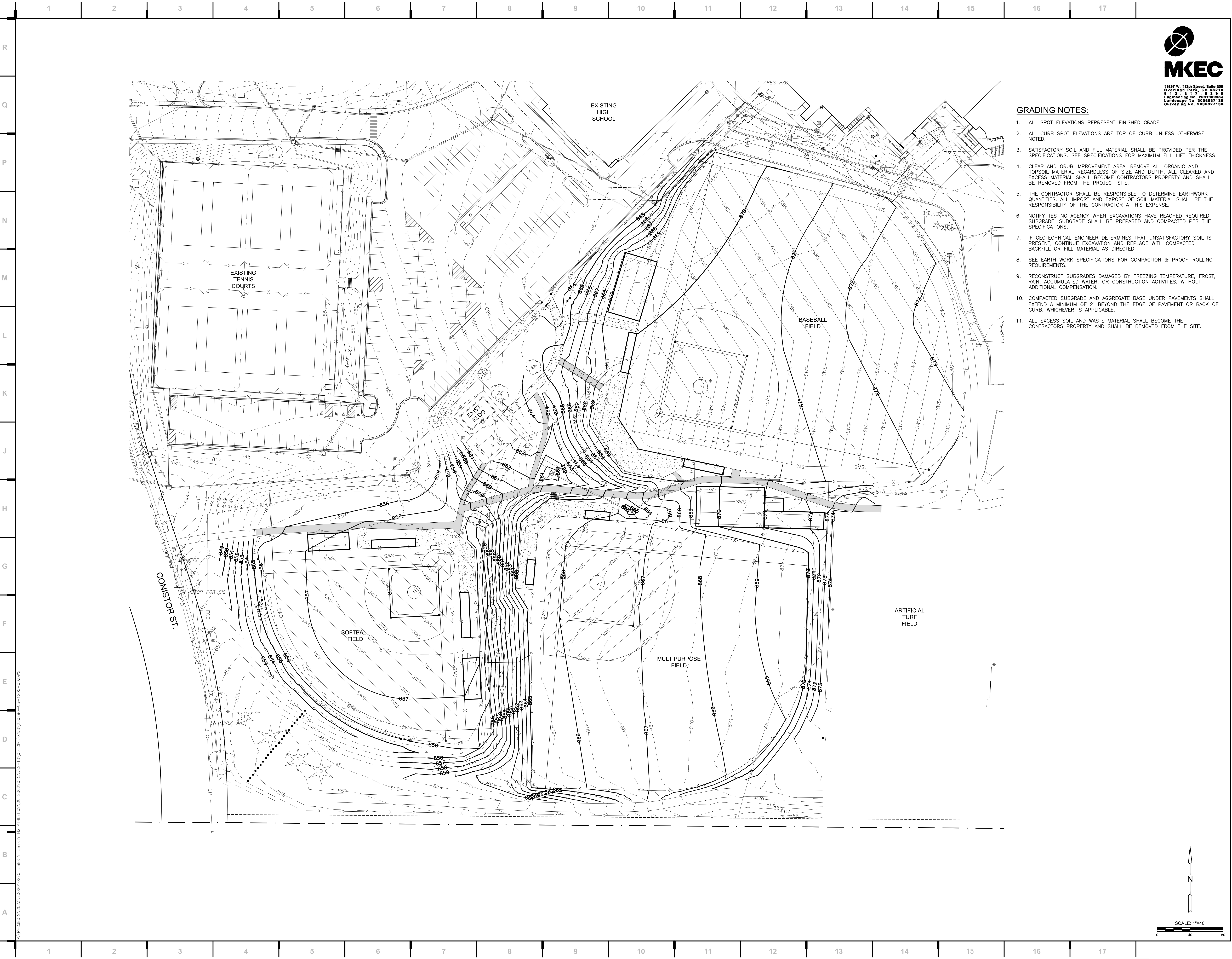


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**C109**





- GRADING NOTES:**
1. ALL SPOT ELEVATIONS REPRESENT FINISHED GRADE.
  2. ALL CURB SPOT ELEVATIONS ARE TOP OF CURB UNLESS OTHERWISE NOTED.
  3. SATISFACTORY SOIL AND FILL MATERIAL SHALL BE PROVIDED PER THE SPECIFICATIONS. SEE SPECIFICATIONS FOR MAXIMUM FILL LIFT THICKNESS.
  4. CLEAR AND GRUB IMPROVEMENT AREA. REMOVE ALL ORGANIC AND TOPSOIL MATERIAL REGARDLESS OF SIZE AND DEPTH. ALL CLEARED AND EXCESS MATERIAL SHALL BECOME CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE EARTHWORK QUANTITIES. ALL IMPORT AND EXPORT OF SOIL MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
  6. NOTIFY TESTING AGENCY WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. SUBGRADE SHALL BE PREPARED AND COMPACTED PER THE SPECIFICATIONS.
  7. IF GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
  8. SEE EARTH WORK SPECIFICATIONS FOR COMPACTION & PROOF-ROLLING REQUIREMENTS.
  9. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURE, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, WITHOUT ADDITIONAL COMPENSATION.
  10. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
  11. ALL EXCESS SOIL AND WASTE MATERIAL SHALL BECOME THE CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE SITE.

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Architecture # 0000181  
Structure # 200001333

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CONSTRUCTION  
DOCUMENTS

# LHS Baseball & Softball Upgrades

Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

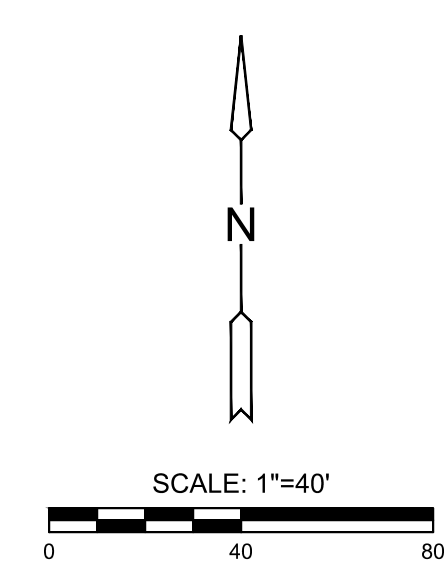
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# C110







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Structure # 2000031333

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# LHS Baseball & Softball Upgrades

## Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

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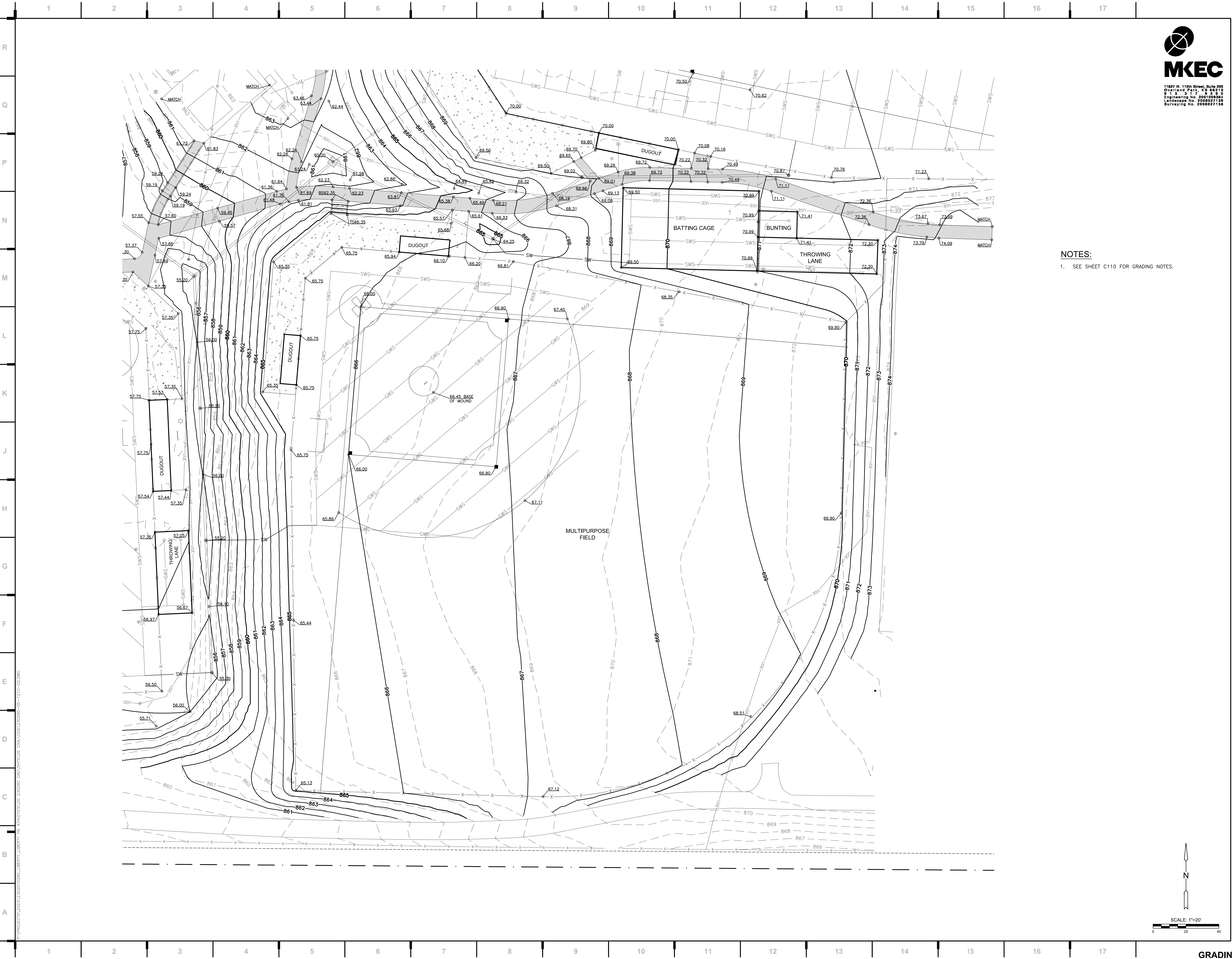
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### GRADING PLAN (BASEBALL)

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Structure # 200601333

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**NOTES:**

- 1. SEE SHEET C110 FOR GRADING NOTES.

**LHS Baseball & Softball Upgrades**

Liberty Public Schools 53

200 Blue Jay Drive  
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**C112**





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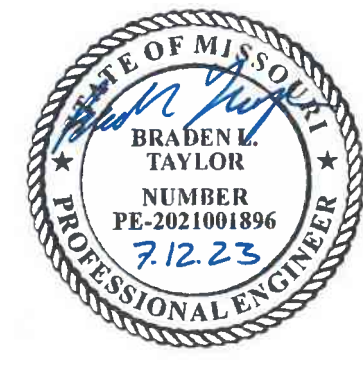
- 1. SEE SHEET C110 FOR GRADING NOTES.

LHS Baseball & Softball Upgrades

Liberty Public Schools 53

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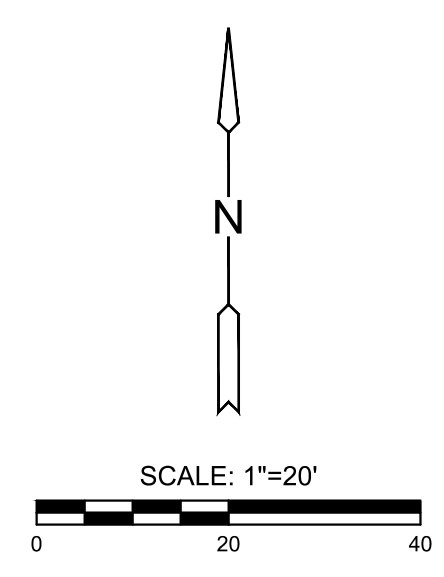
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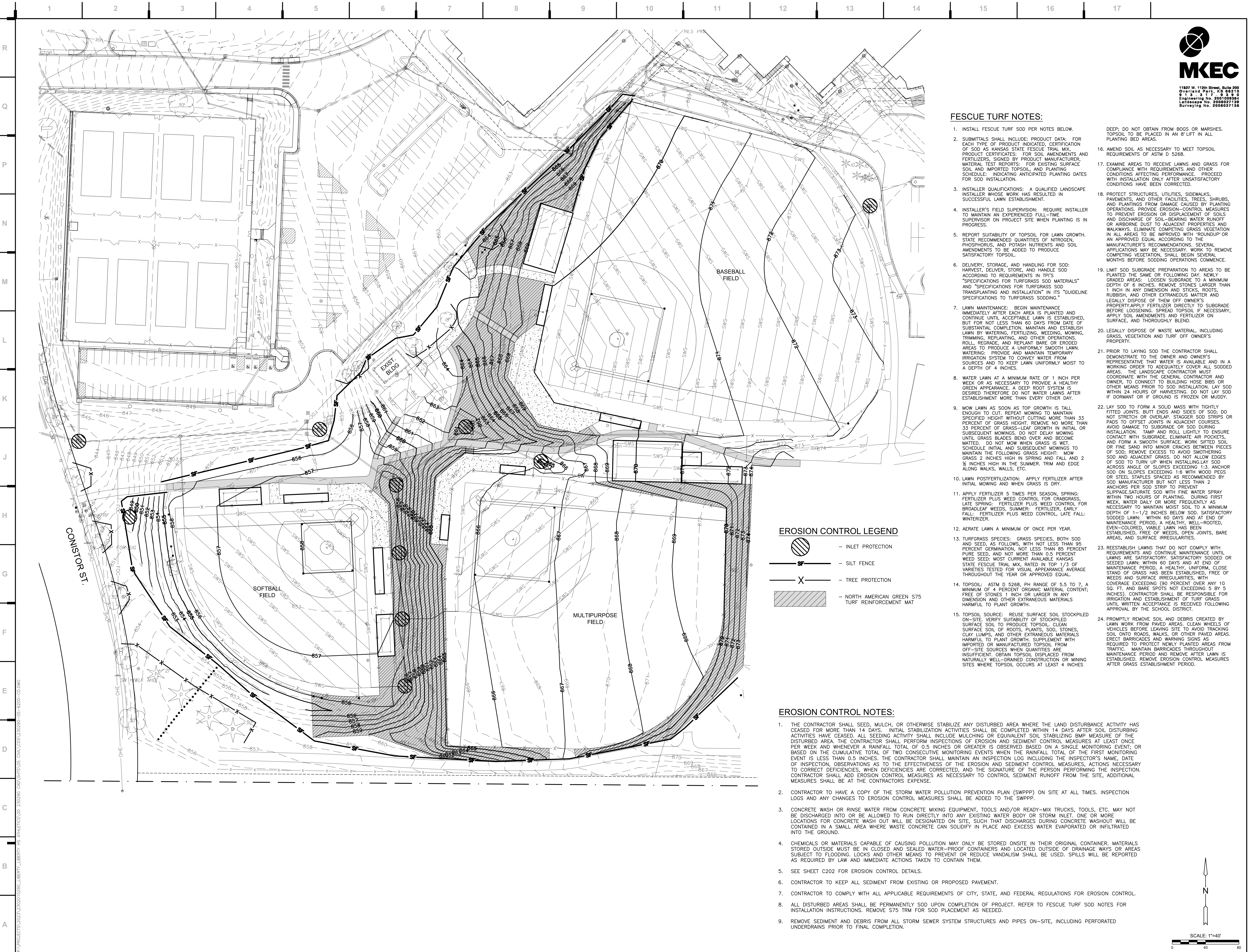
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C113







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 TIPS "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPLANTING 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. AREAS TO PRODUCE A UNIFORM 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 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, VIABLE 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 SEEDING 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 80 PERCENT OVER ANY 10 SQ. FT. AND BARE SPOTS NOT EXCEEDING 5 BY 5 INCHES). CONTRACTOR SHALL BE RESPONSIBLE FOR IRRIGATION AND ESTABLISHMENT OF TURF GRASS UNTIL 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 OF 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 LEGEND

- INLET PROTECTION
- SILT FENCE
- TREE PROTECTION
- NORTH AMERICAN GREEN S75 TURF REINFORCEMENT MAT

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 SOIL DISTURBING ACTIVITIES HAVE CEASED. ALL SEEDING ACTIVITY 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, 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 CONTRACTOR'S 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 ONSITE 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 C202 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 S75 TRM FOR SOD PLACEMENT AS NEEDED.
- 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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**LHS Baseball & Softball Upgrades**  
Liberty Public Schools #3

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REVISIONS:

#	Description	Date



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JOB NO: 23023  
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CHECKED BY: BLT  
DATE: 07-12-23

**C114**



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Missouri State Certificate of Authority  
Architecture # 0000181  
Structure # 200001333

**MKEC Engineering, Inc.**  
Civil Engineering / Landscape Architecture  
State Certificate of Authority #: 2001009364  
Engineering: 2001009364  
Landscaping: 2006027138  
Surveying: 2006027138  
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Overland Park, Johnson County, KS 66210  
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Mechanical, Electrical, Plumbing Engineers  
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Olathe, Johnson County, KS 66061  
913.345.2127 phone

CONSTRUCTION DOCUMENTS

LHS Baseball & Softball Upgrades  
Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

REVISIONS:

#	Description	Date

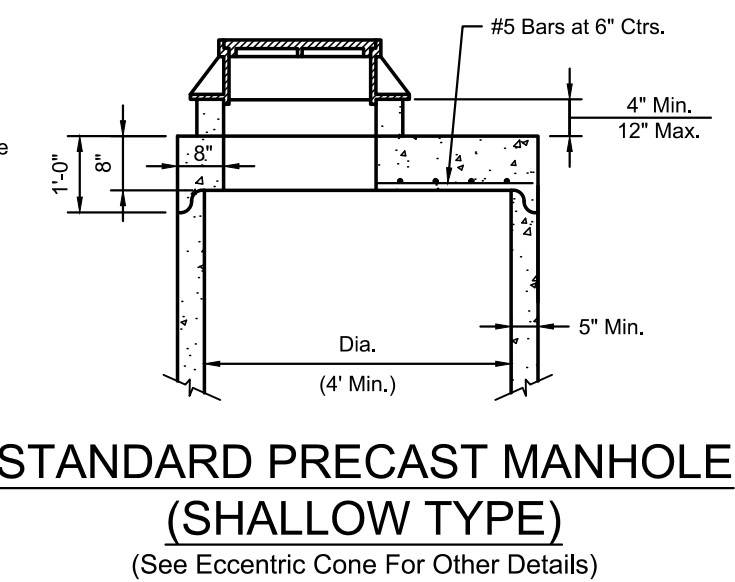
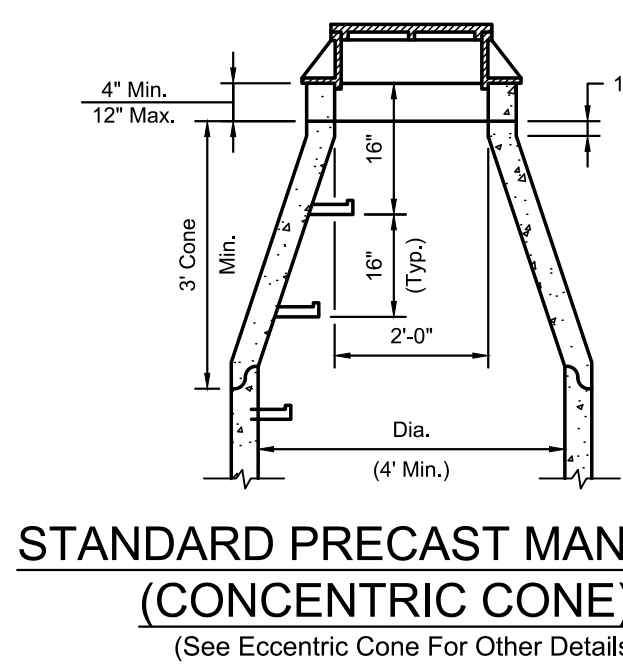
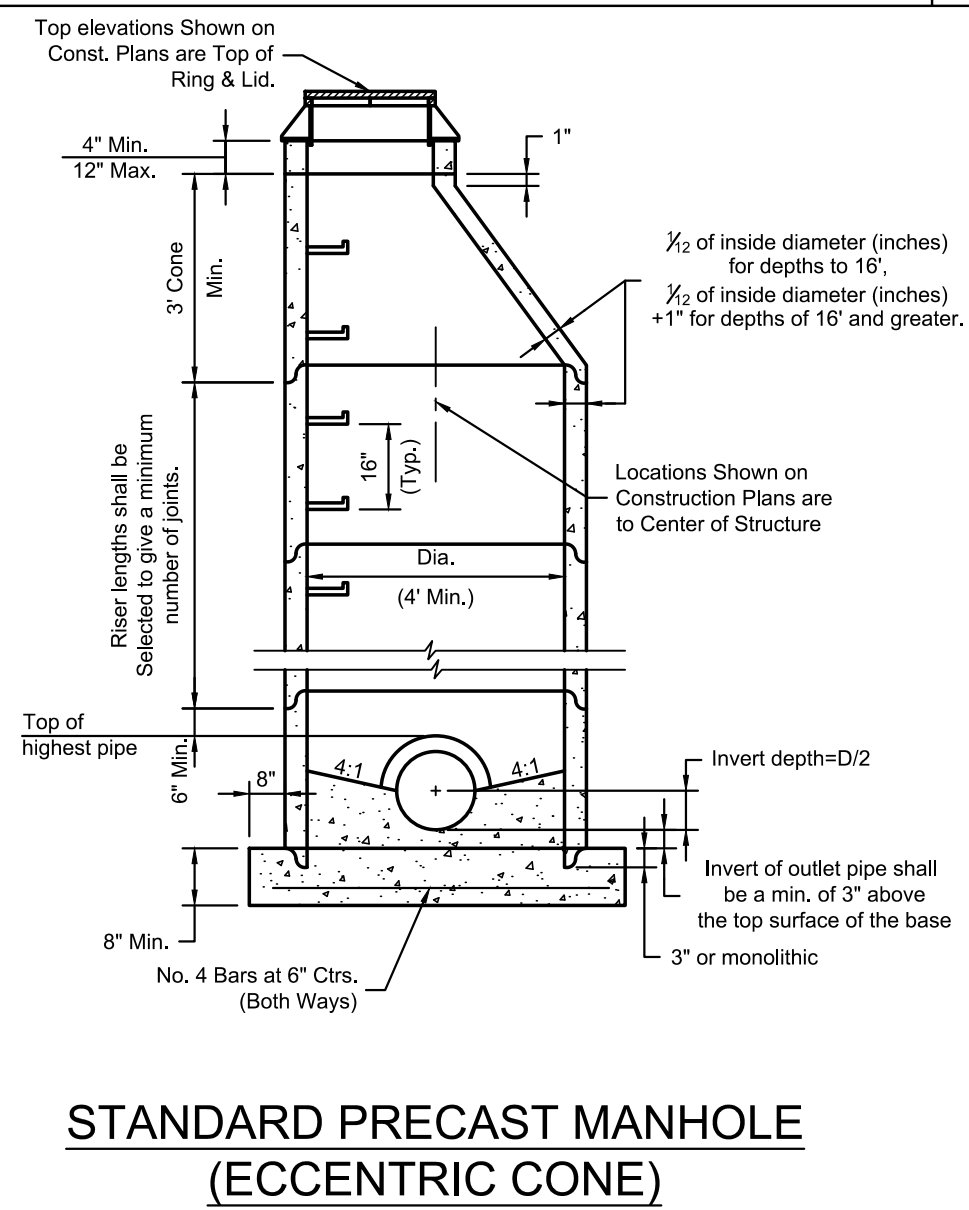
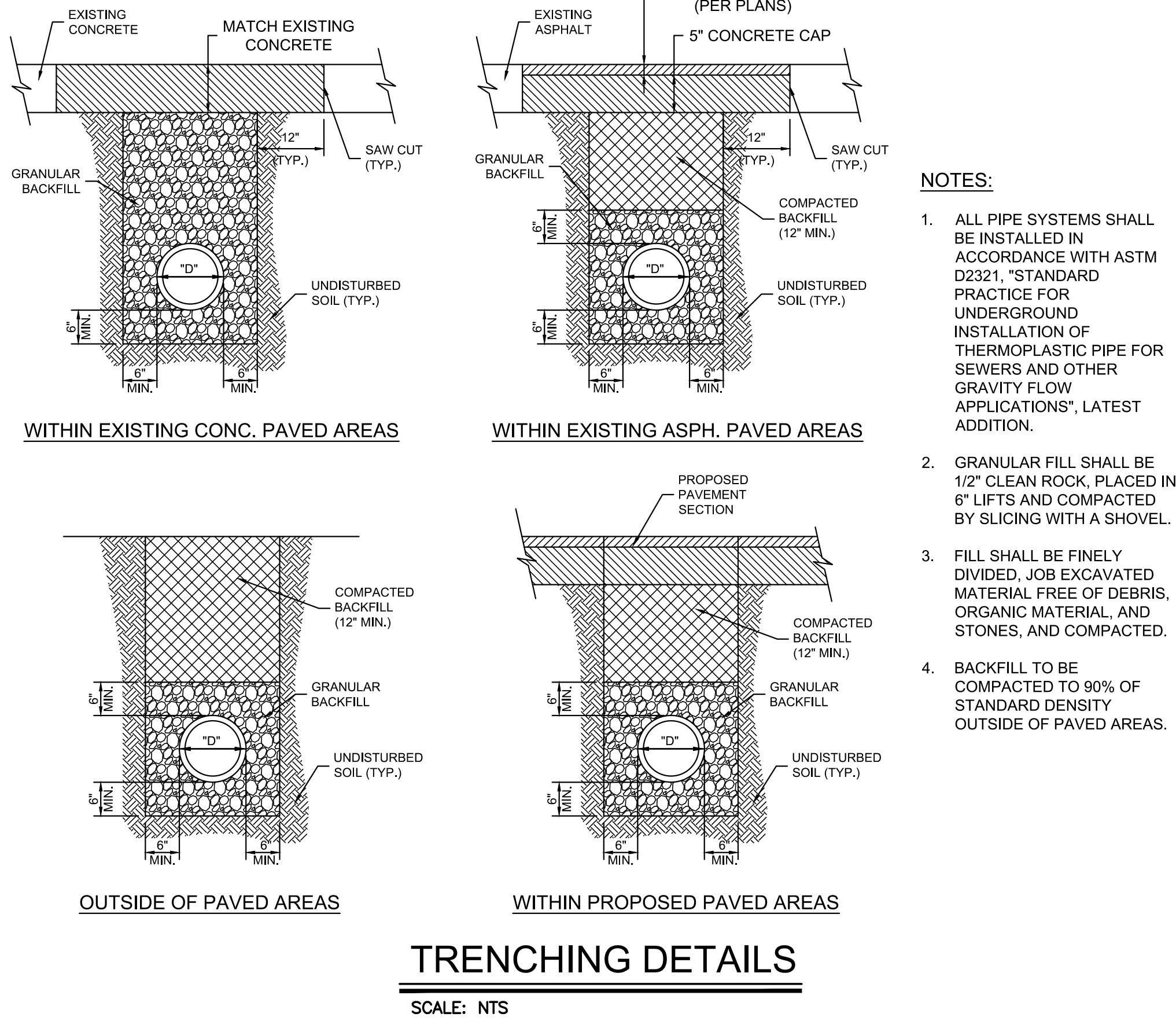
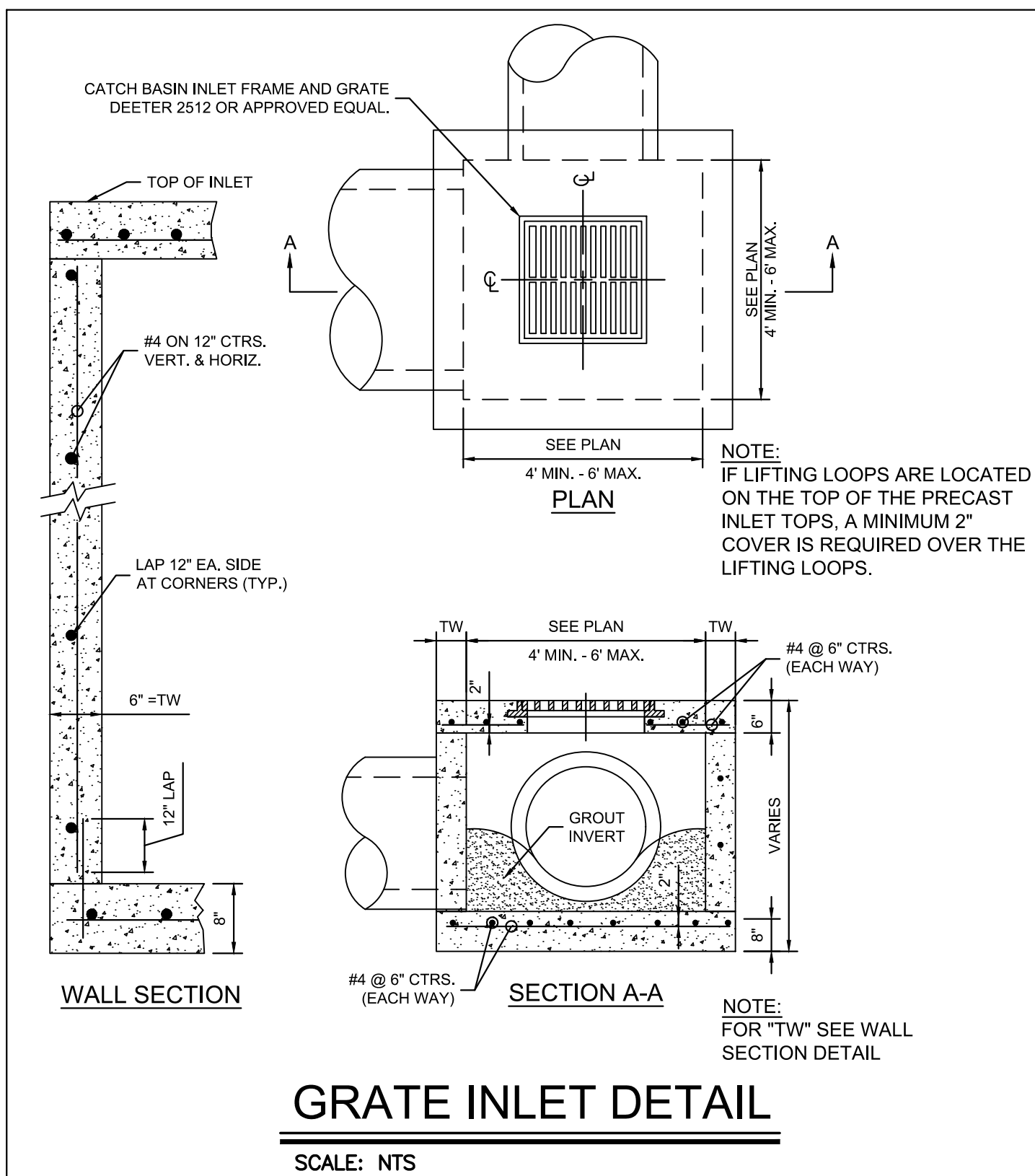
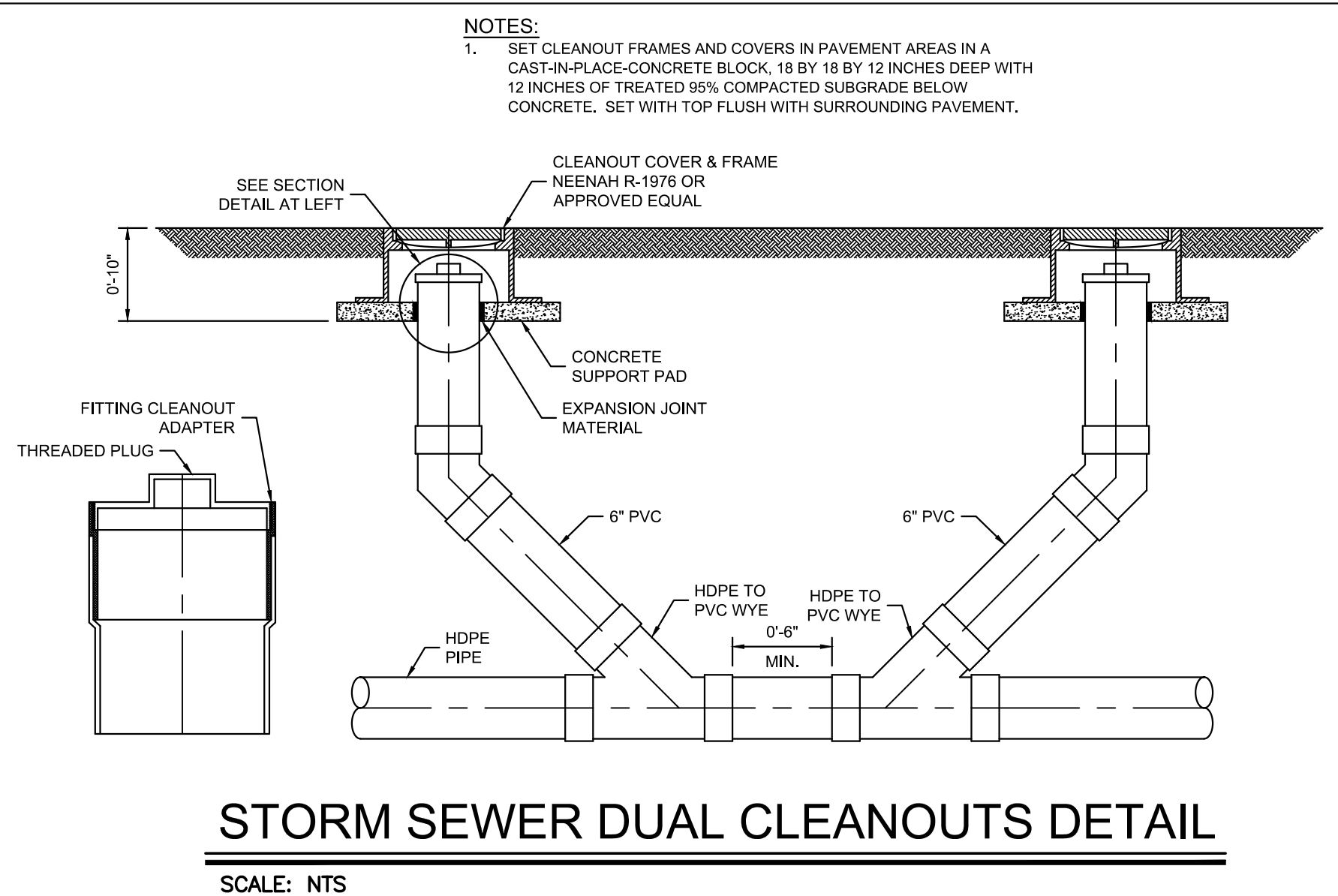
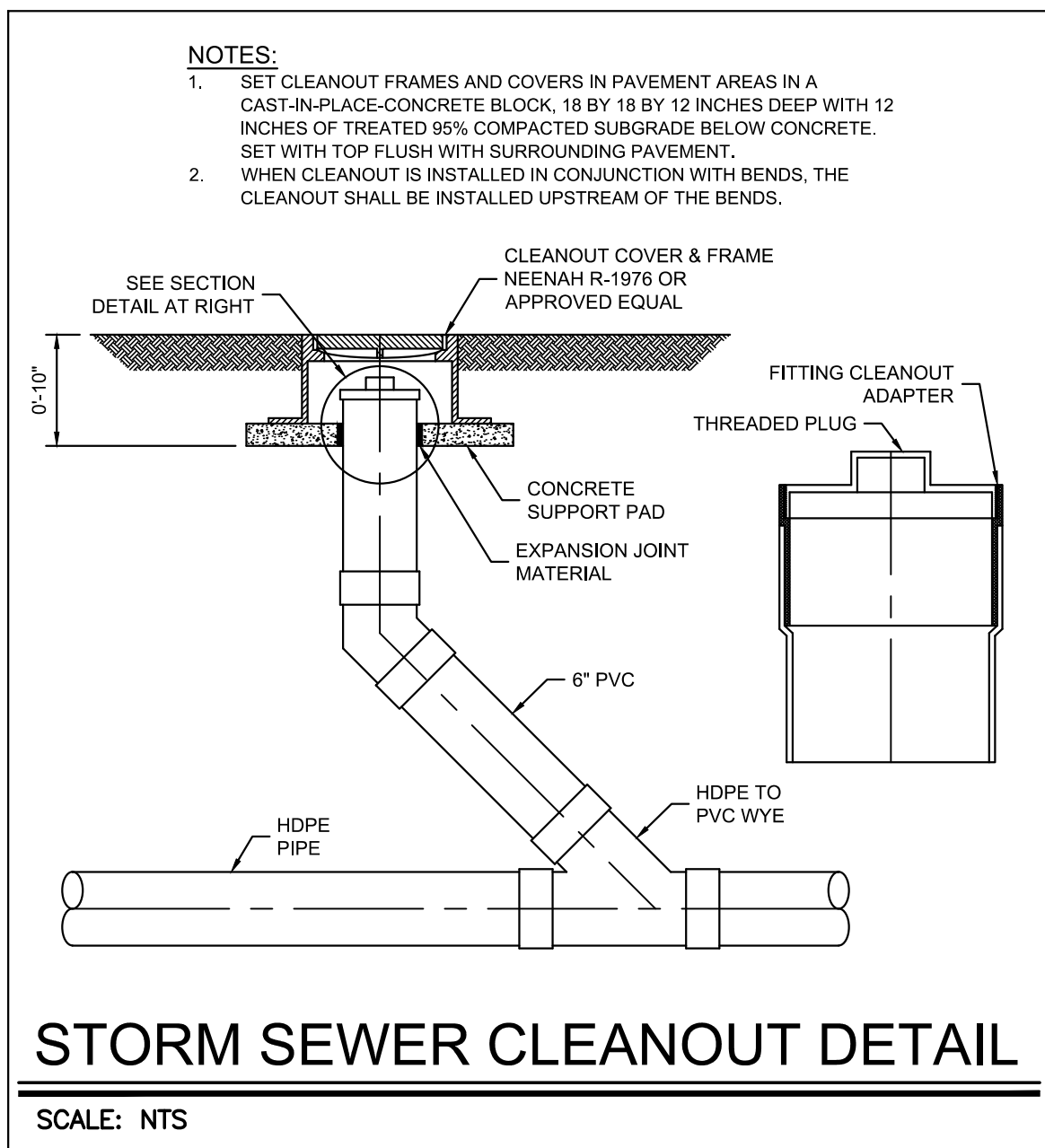


BRADEN L. TAYLOR  
LIC# 2021001896

JOB NO: 23023  
DRAWN BY: MKB  
CHECKED BY: BLT  
DATE: 07-12-23

C200

UTILITY DETAILS



- GENERAL NOTES:**
1. All manholes are to be precast concrete and of Eccentric Cone type unless otherwise specified.
  2. Manhole top adjustments shall be accomplished by the use of concrete adjustment rings.
  3. Top of manhole casting shall be set flush and on same slope as finished surface or as directed by the Engineer.
  4. Reinforcement in all section shall equal or exceed A.S.T.M. C-478 specifications.
  5. The engineer shall designate modifications for manholes with special designs.
  6. The inside diameter of the manhole shall be 4'-0" for pipe diameters from 12" thru 24", 5'-0" for pipe diameters from 27" thru 36", and 6'-0" for pipe diameters 42" thru 48".
  7. Clearance Tolerance of Pipe Openings: The Maximum Allowable Pipe Opening on the Horizontal Axis Shall be the Outside Diameter of the Pipe Plus 12". The Maximum Allowable Pipe Opening on Vertical Axis Shall be the Outside Diameter Plus 8". The Minimum Clearance Between the Outside Surface of an Installed pipe and the Concrete of the Manhole Shall be 2".
  8. Installation of Pipe Openings: All Required pipe openings shall be plant cast in manhole units. Field alterations of openings will be permitted provided walls are scored with a masonry saw to a depth sufficient to sever reinforcing steel. A chipping hammer may then be used to remove the concrete. Minimum distance between any two adjacent pipes shall be 4".
  9. No direct payment for shaping floor or connection pipes as shown on plans.
  10. Ring & Cover to be Neenah R-1736, Clay & Bailey #200B, Deeter #1316, or approved equal. (Casting may vary by municipality, refer to plans & contract documents.)
  11. Sanitary Sewers shall be coated and conform to Section 2600.

AMERICAN PUBLIC WORKS ASSOCIATION (APWA) KANSAS CITY METROPOLITAN CHAPTER		
MANHOLE DETAILS		
STANDARD DRAWING NUMBER: MH - 1	ADOPTED: APRIL 17, 1996	



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Architecture # 0000181  
Structure # 200601333

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Engineering: 2001009364  
Landscaping: 2006027139  
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CONSTRUCTION  
DOCUMENTS

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Liberty Public Schools 53  
200 Blue Jay Drive  
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REVISIONS:

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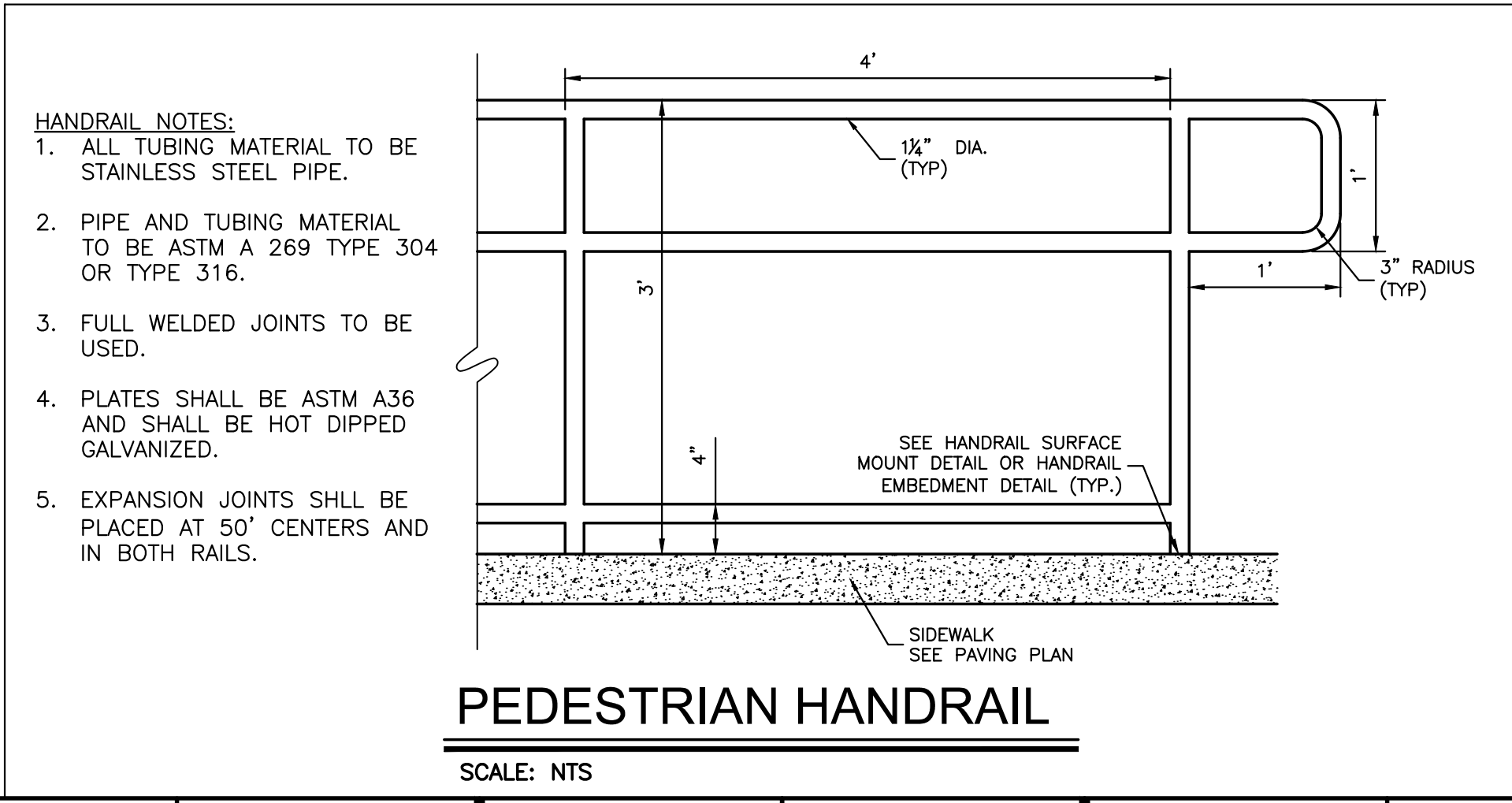
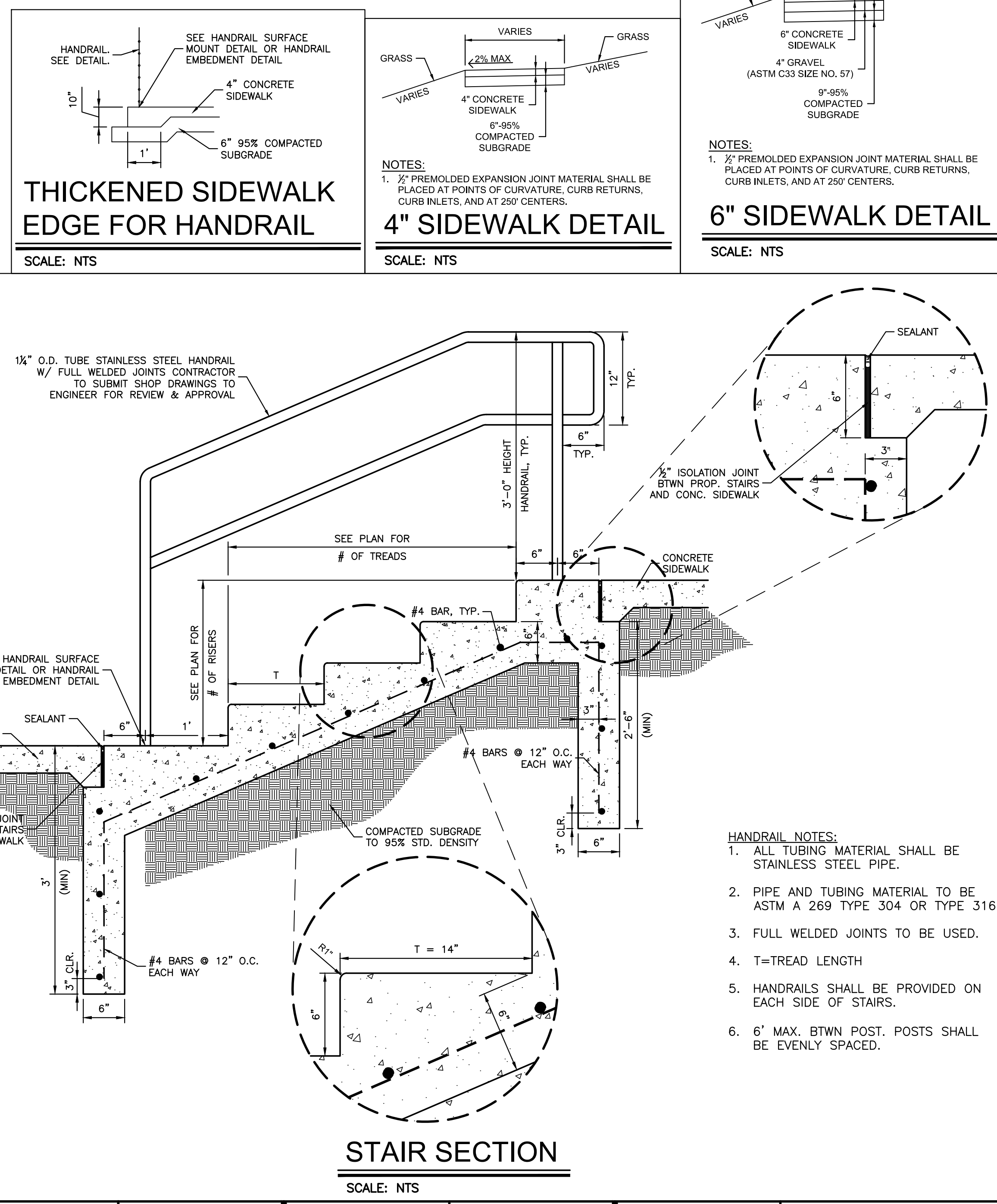
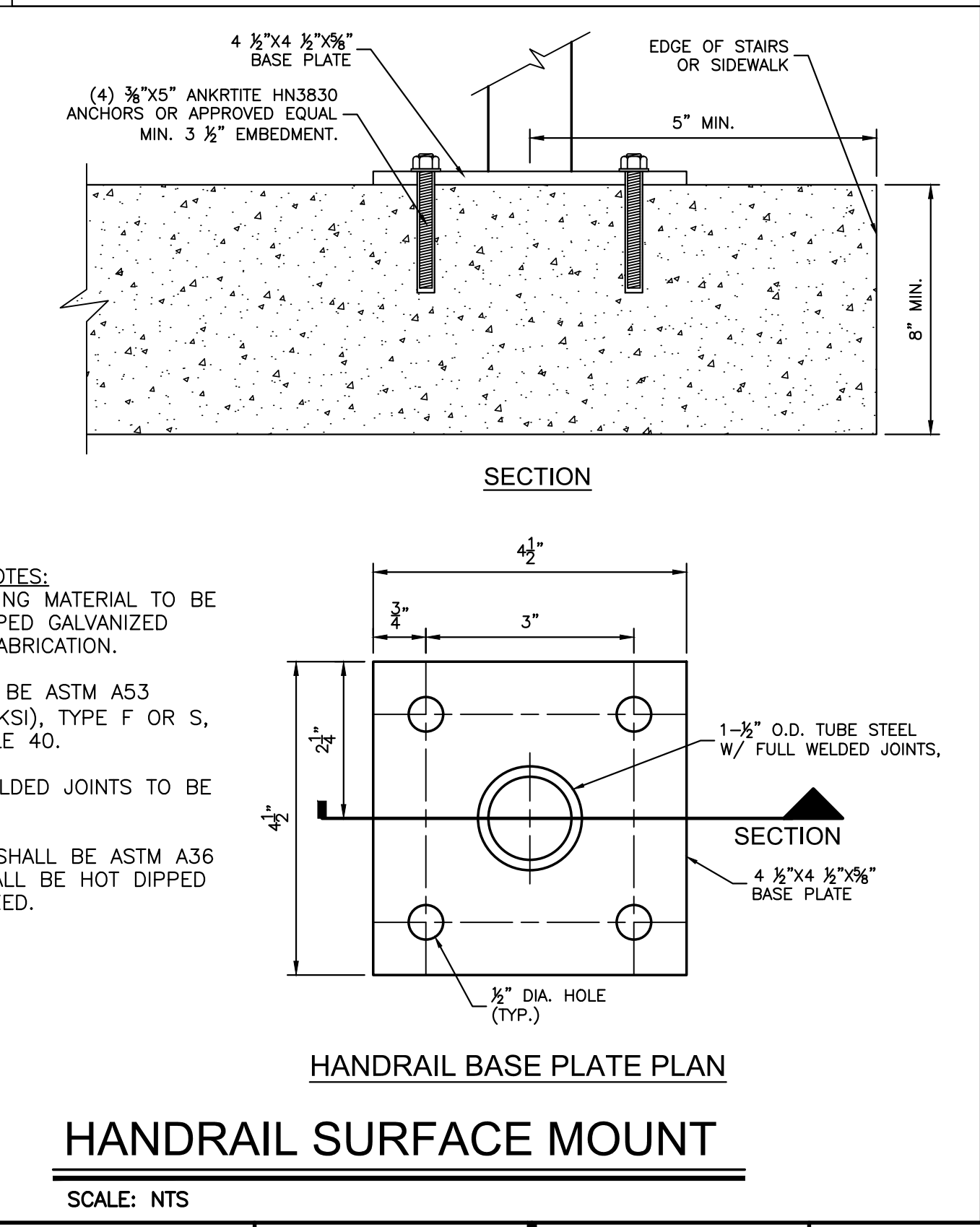
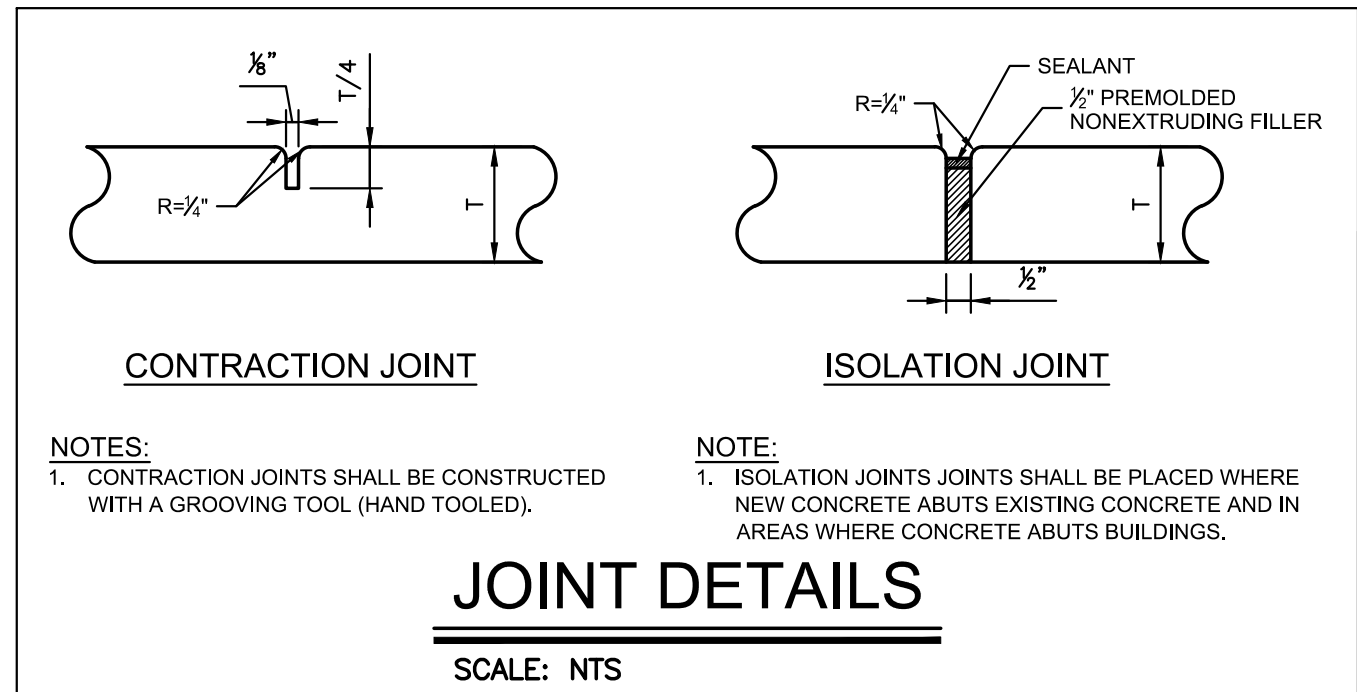
**BRADEN L. TAYLOR**  
LIC# 2021001896

The Professional Engineer and Architect seal is the property of the State Board of Professional Engineers and Architects. It shall be used only for the purpose of certifying the work of the engineer or architect and shall not be used for any other purpose.

JOB NO: 23023  
DRAWN BY: MKB  
CHECKED BY: BLT  
DATE: 07-12-23

**C201**

PAVING DETAILS







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Surveying: 2006027138  
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LHS Baseball & Softball Upgrades  
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200 Blue Jay Drive  
Liberty, MO 64088

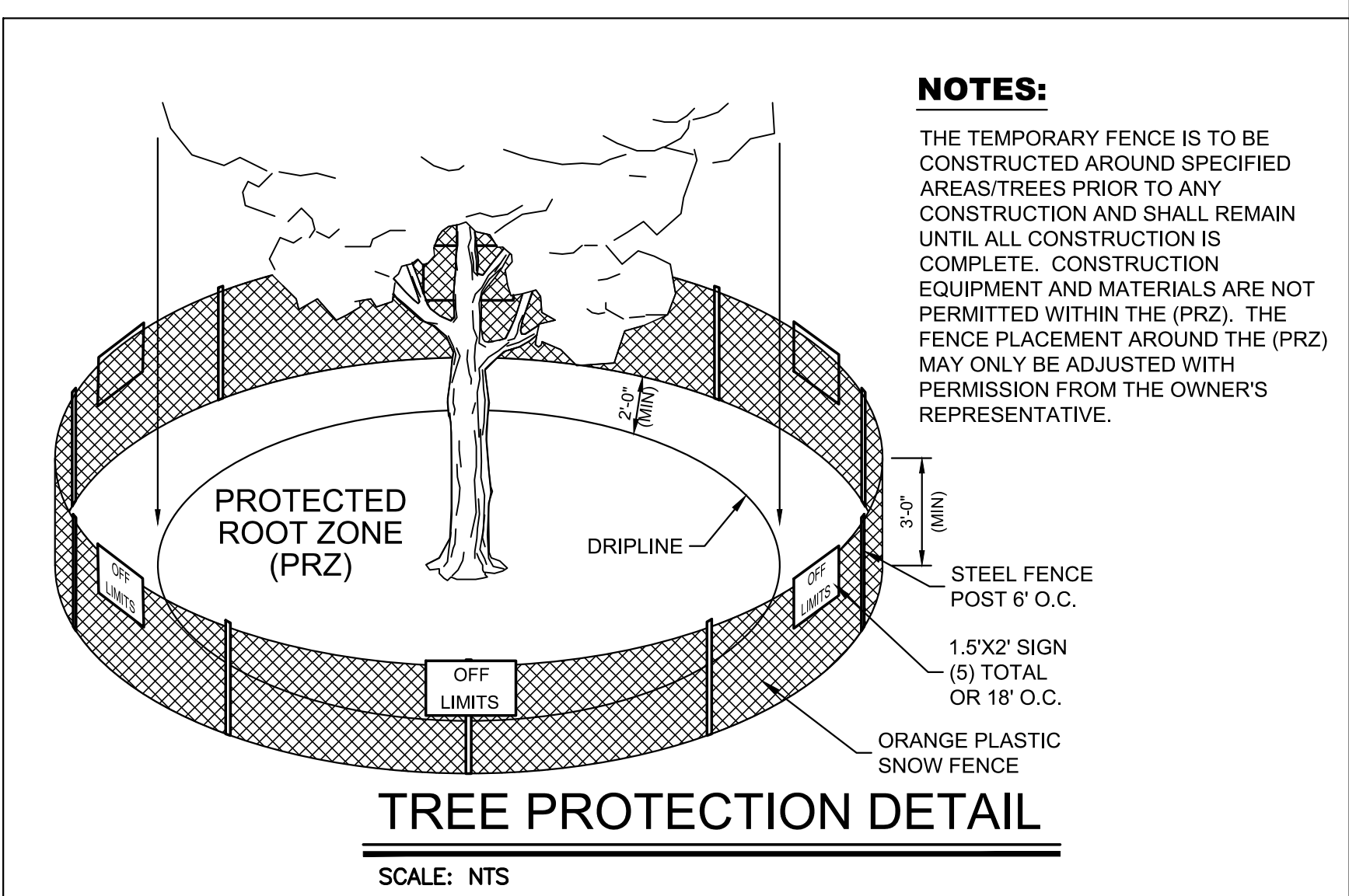
REVISIONS:

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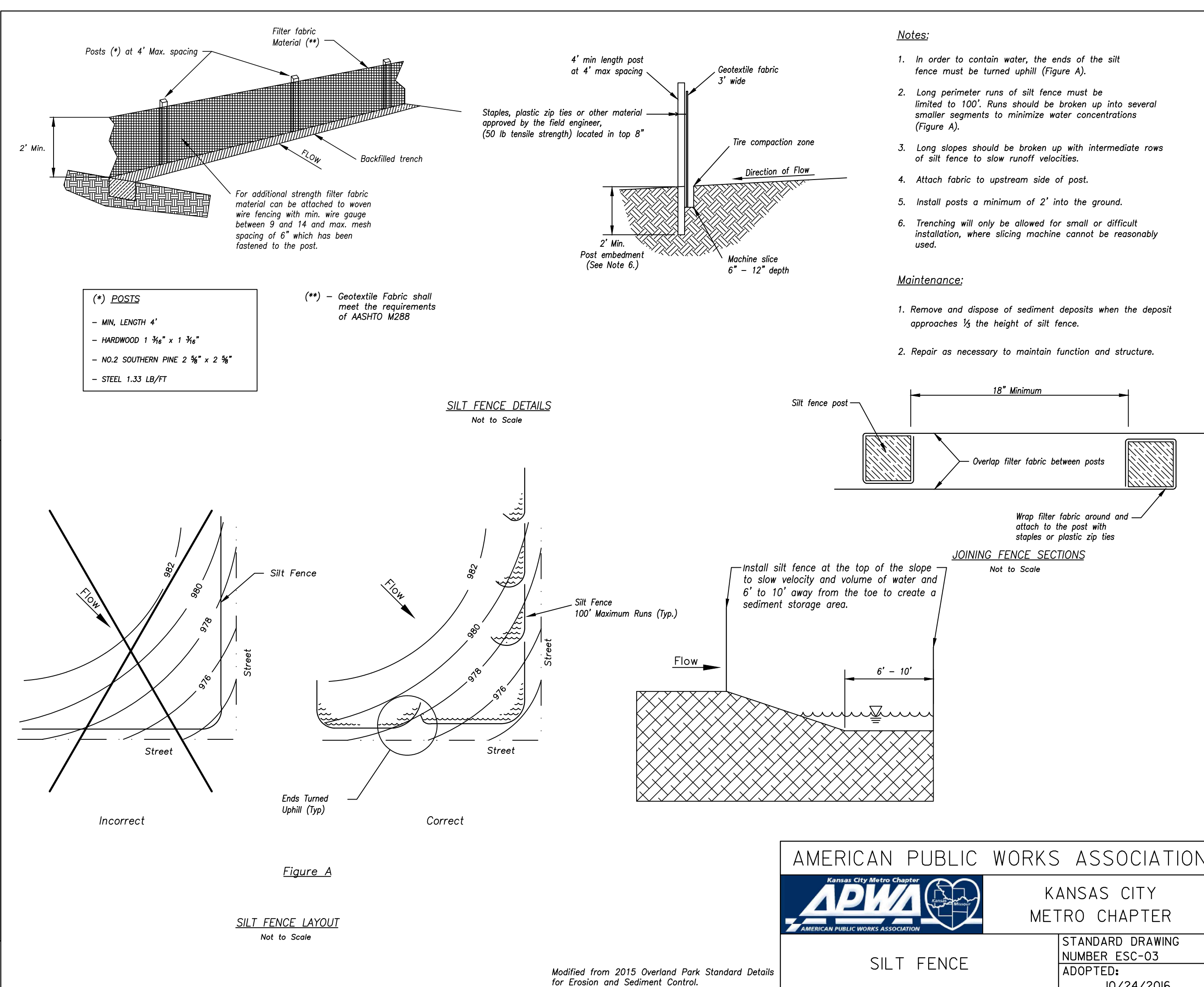
BRADEN L. TAYLOR  
LICENSED PROFESSIONAL ENGINEER  
LICENSE # 2021001896

JOB NO: 23023  
DRAWN BY: MKB  
CHECKED BY: BLT  
DATE: 07-12-23

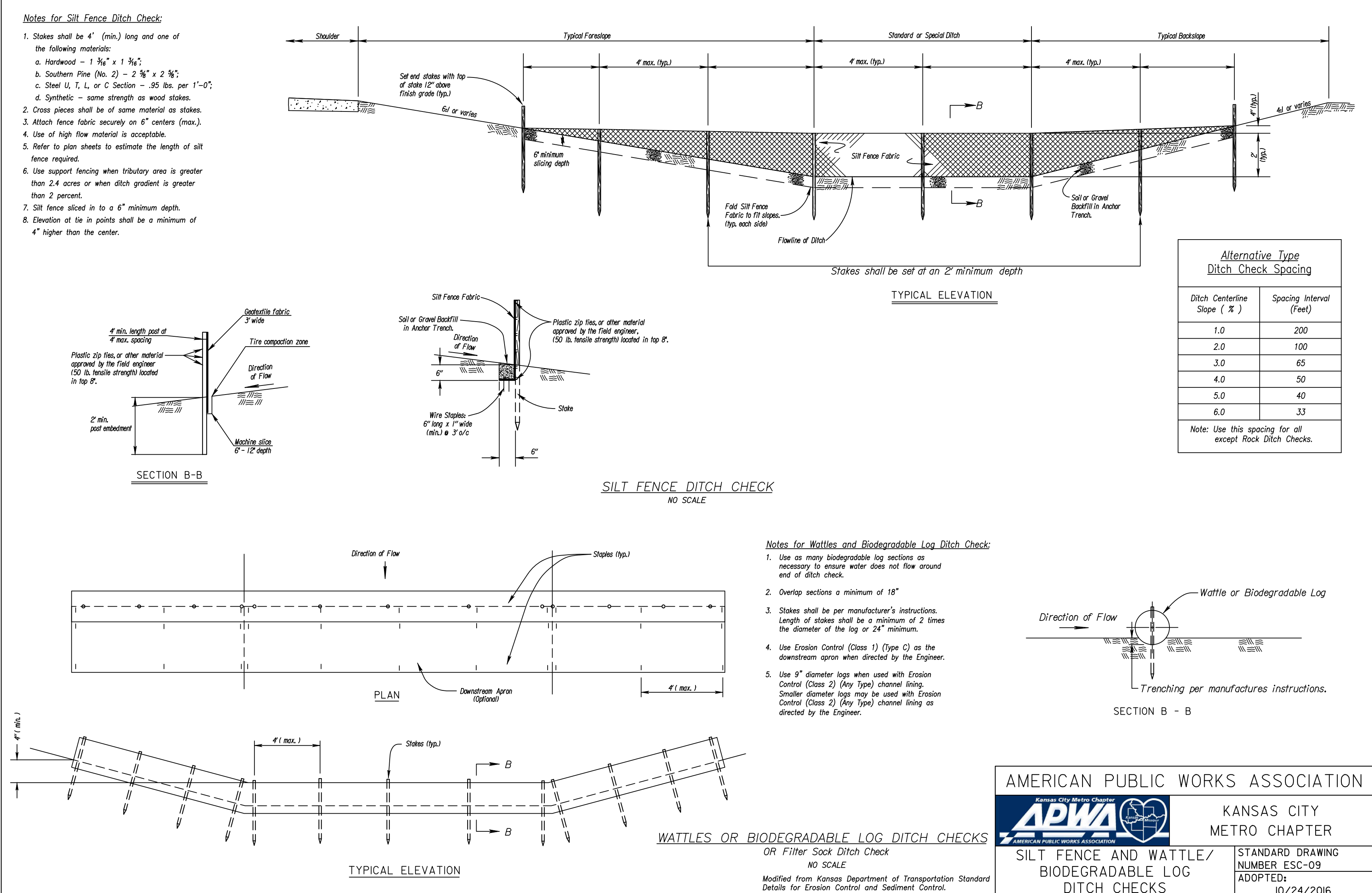
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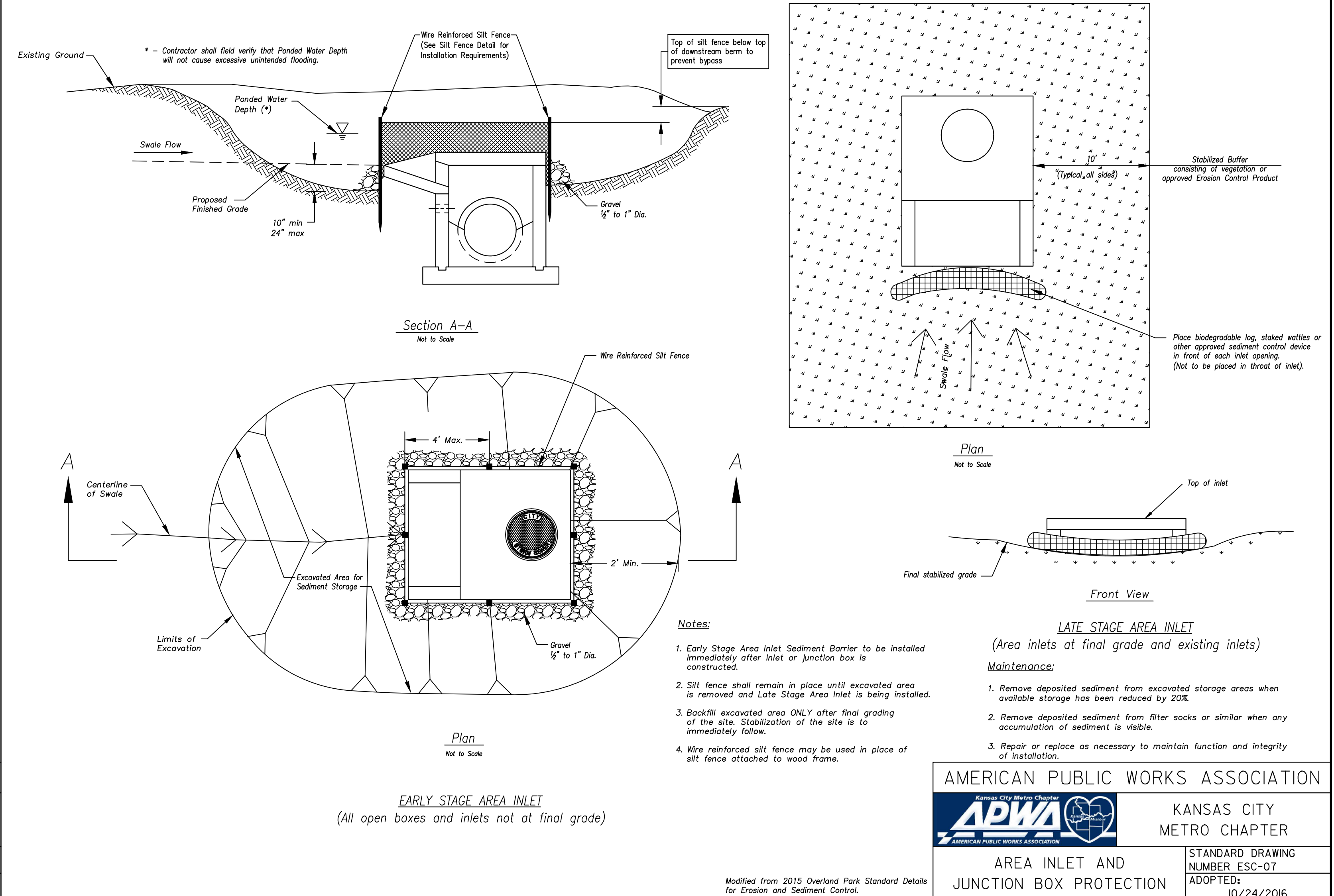
**NOTES:**  
THE TEMPORARY FENCE IS TO BE CONSTRUCTED AROUND SPECIFIED AREAS/TREES PRIOR TO ANY CONSTRUCTION AND SHALL REMAIN UNTIL ALL CONSTRUCTION IS COMPLETE. CONSTRUCTION EQUIPMENT AND MATERIALS ARE NOT PERMITTED WITHIN THE (PRZ). THE FENCE PLACEMENT AROUND THE (PRZ) MAY ONLY BE ADJUSTED WITH PERMISSION FROM THE OWNER'S REPRESENTATIVE.



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

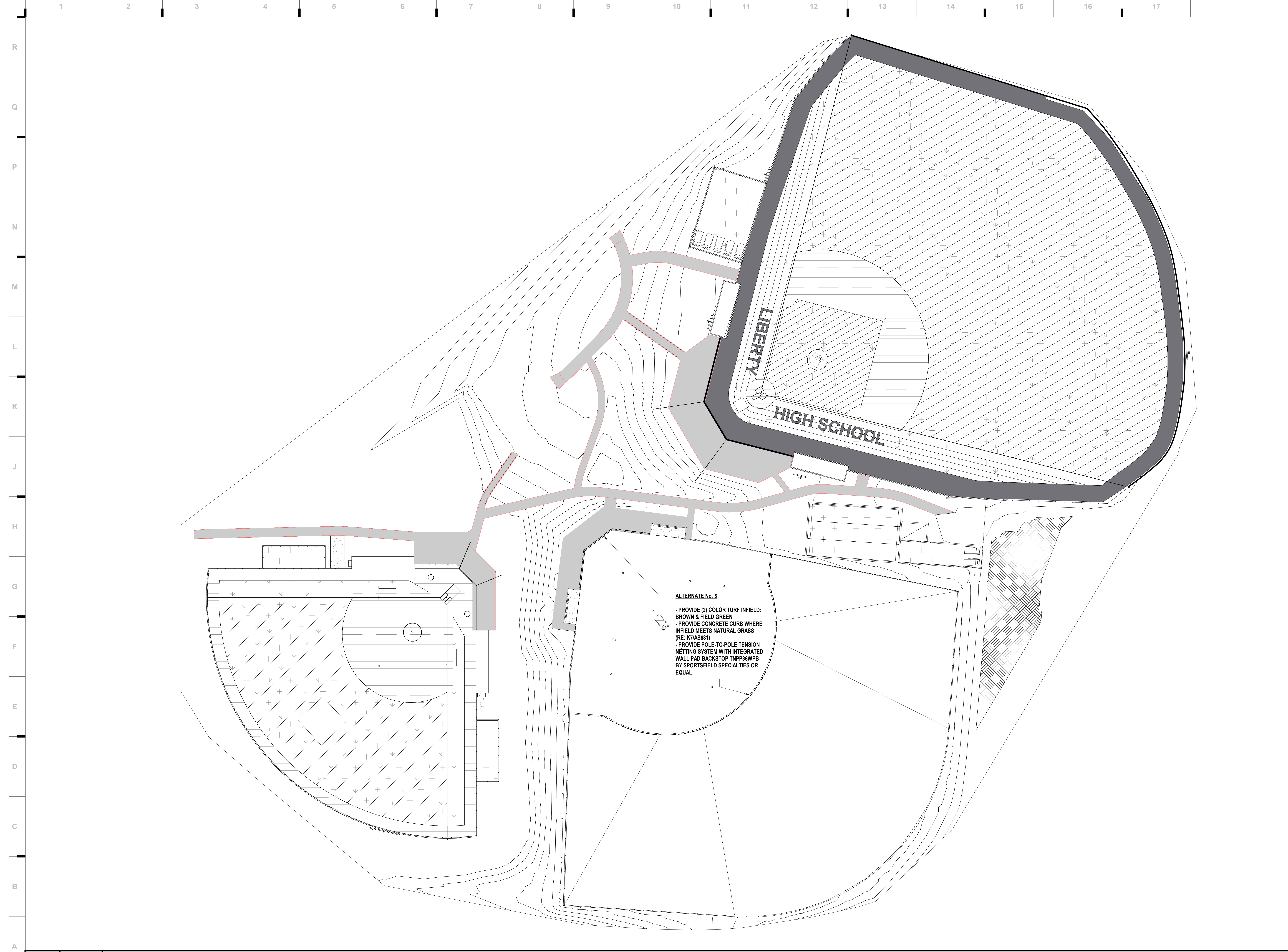


AMERICAN PUBLIC WORKS ASSOCIATION  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-09  
ADOPTED: 10/24/2016



AMERICAN PUBLIC WORKS ASSOCIATION  
KANSAS CITY METRO CHAPTER  
STANDARD DRAWING NUMBER ESC-07  
ADOPTED: 10/24/2016



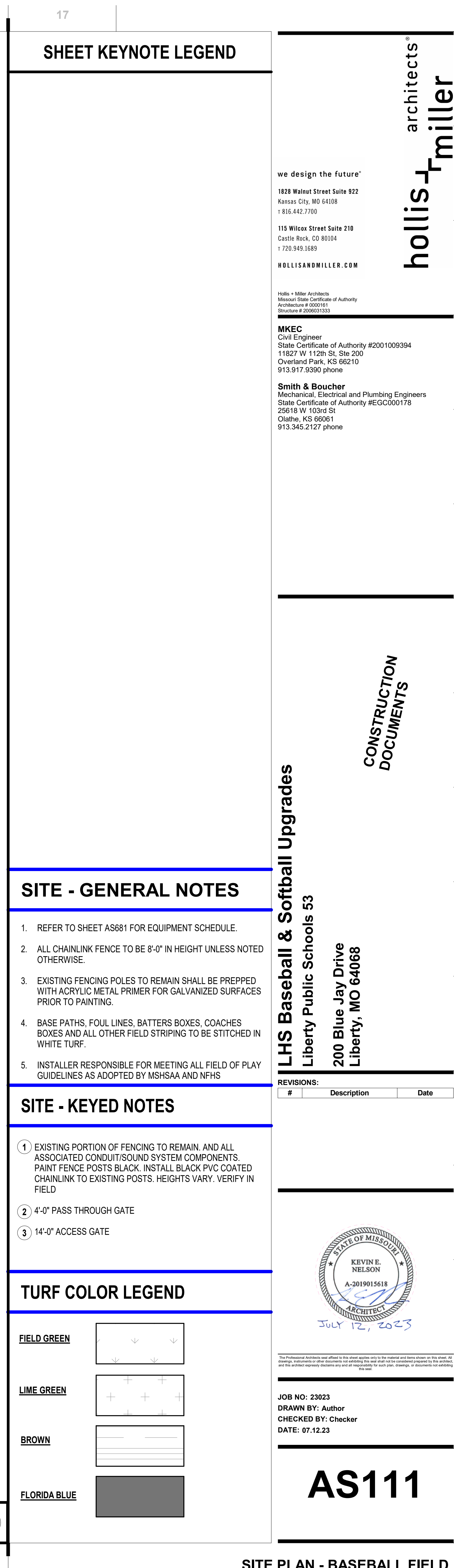


REVISIONS:

#	Description	Date
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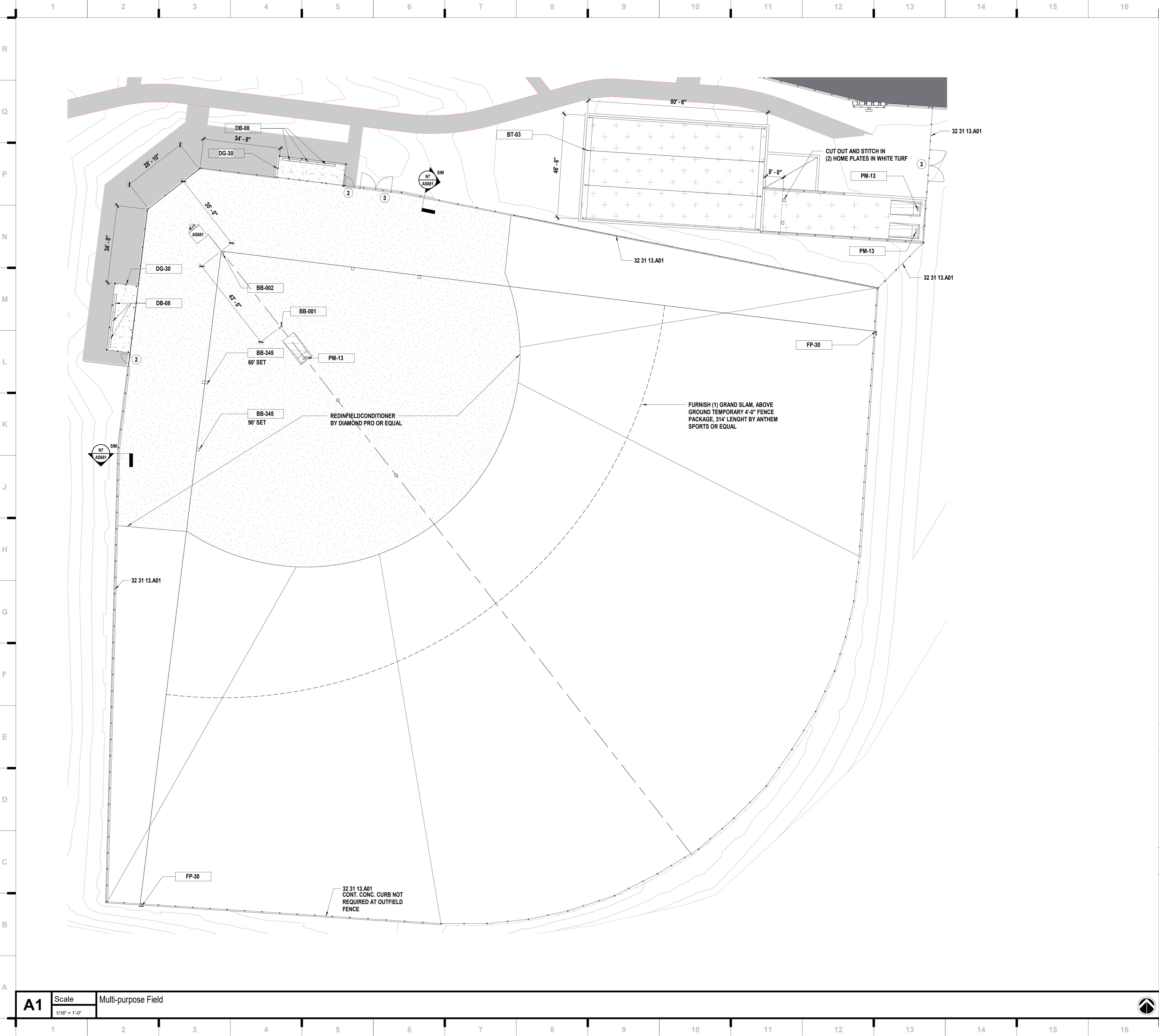








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**A1** Scale Multi-purpose Field  
1/16" = 1'-0"



## SHEET KEYNOTE LEGEND

32 31 13.A01 CHAIN LINK FENCING

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Architecture # 0000161  
Structure # 2006011333

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CONSTRUCTION  
DOCUMENTS

**LHS Baseball & Softball Upgrades**  
Liberty Public Schools 53  
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## REVISIONS:

#	Description	Date
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## 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
- 14'-0" ACCESS GATE

## TURF COLOR LEGEND

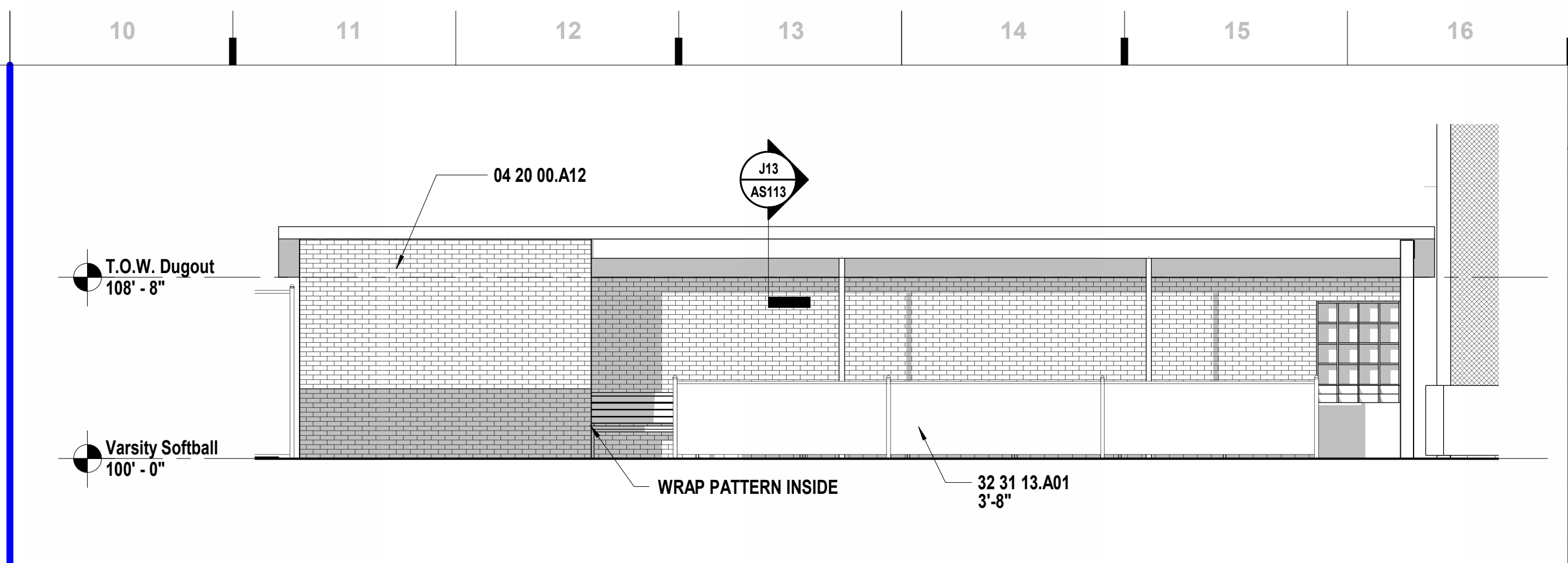
FIELD GREEN	
LIME GREEN	
BROWN	
FLORIDA BLUE	



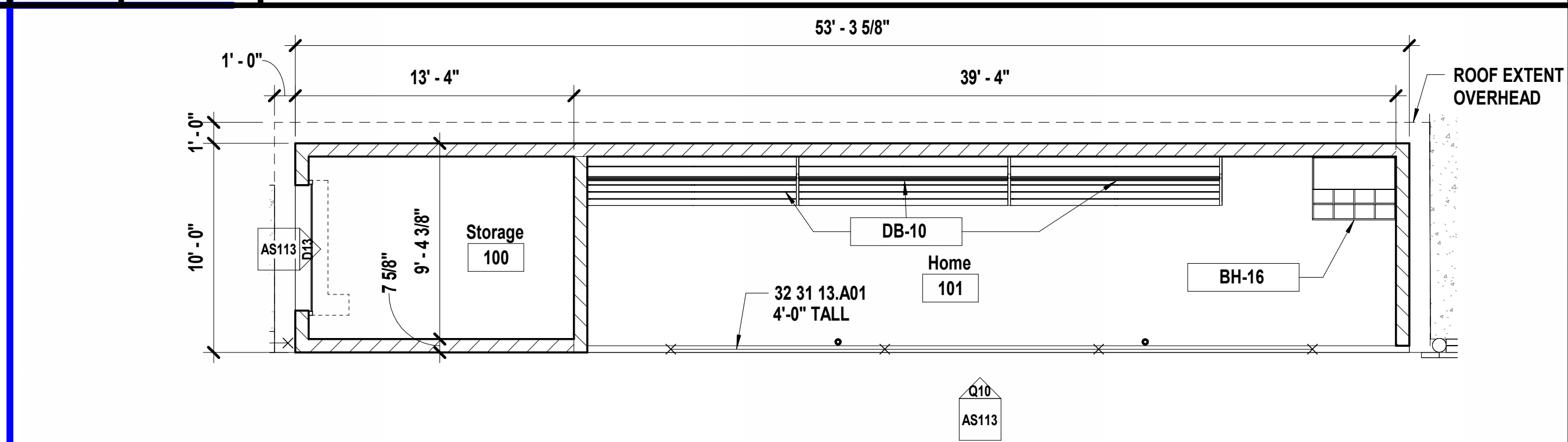
JOB NO: 23023  
DRAWN BY: Author  
CHECKED BY: Checker  
DATE: 07.12.23

**AS112**

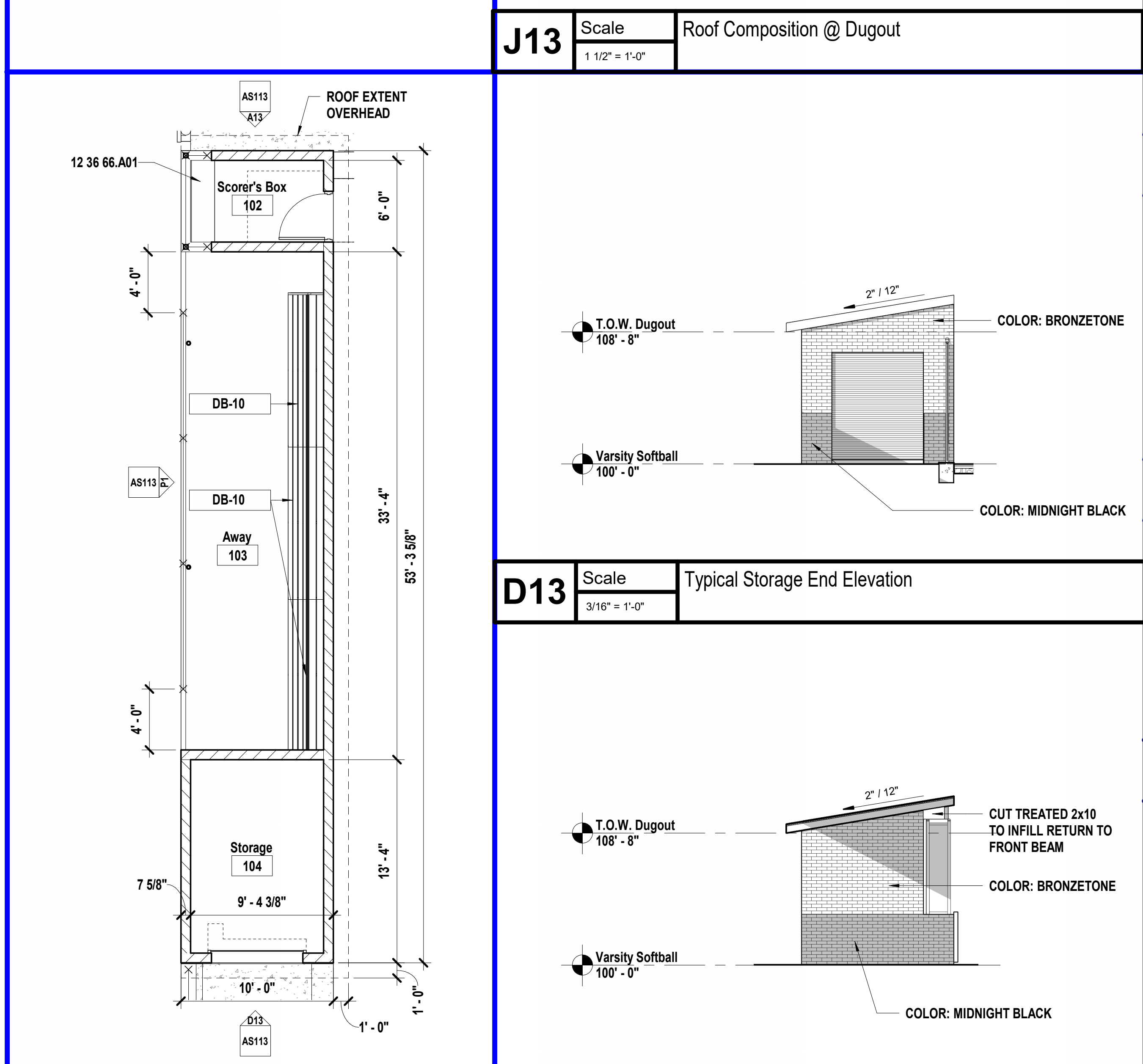




<b>Q10</b>	Scale	Front Elevation - Home Dugout
	3/16" = 1'-0"	



<b>L10</b>	Scale	Enlarged Dugout Plan - Home	
	3/16" = 1'-0"		



<b>J13</b>	Scale	Roof Composition @ Dugout
	1 1/2" = 1'-0"	

<b>D13</b>	Scale	Typical Storage End Elevation
	3/16" = 1'-0"	

<b>A13</b>	Scale	Scorer's Box Elevation - Away Dugout
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## SHEET KEYNOTE LEGEND

0.A12	FACE BRICK
0.A16	FIRE-RETARDANT TREATED WOOD BLOCKING & NAILERS
0.A06	ROOF SHEATHING
3.A01	ASPHALT SHINGLES
3.A02	FELT UNDERLAYMENT
3.A06	METAL FLASHING/TRIM
6.A01	SOLID SURFACE COUNTERTOP
3.A01	CHAIN LINK FENCING

**Holls + Miller Architects**  
Missouri State Certificate of Authority  
Architecture # 0000161  
Structure # 2006031333

---

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## SITE - GENERAL NOTES

1. REFER TO SHEET AS681 FOR EQUIPMENT SCHEDULE.
2. ALL CHAINLINK FENCE TO BE 8'-0" IN HEIGHT UNLESS NOTED OTHERWISE.
3. EXISTING FENCING POLES TO REMAIN SHALL BE PREPARED WITH ACRYLIC MILD PRIMER FOR GALVANIZED SURFACES PRIOR TO PAINTING.
4. BASE PATHS, FOUL LINES, BATTERS BOXES, COACHES BOXES AND ALL OTHER FIELD STRIPES TO BE STITCHED IN WHITE TURF.
5. INSTALLER RESPONSIBLE FOR MEETING ALL FIELD OF PLAY GUIDELINES AS ADOPTED BY MSHSAA AND NFHS

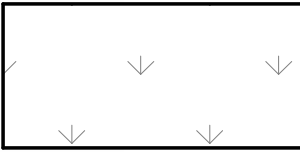
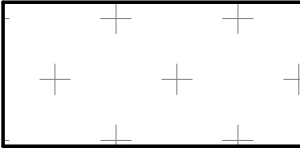


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2. ALL CHAINLINK FENCE TO BE 8'-0" IN HEIGHT UNLESS NOTED OTHERWISE.
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## SITE - KEYED NOTES

- 1 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
- 2 4'-0" PASS THROUGH GATE
- 3 14'-0" ACCESS GATE

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- 2 4'-0" PASS THROUGH GATE
- 3 14'-0" ACCESS GATE

# TURF COLOR LEGEND

<u>FIELD GREEN</u>	
<u>LIME GREEN</u>	
<u>BROWN</u>	
<u>FLORIDA BLUE</u>	

**LHS Baseball & Softball**  
Liberty Public Schools 53

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**CONSTRUCTION  
DOCUMENTS**

hollis + miller<sup>®</sup> architects<sup>®</sup>



JOB NO: 23023  
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DATE: 07.12.23

# AS113

### SITE PLAN - SOFTBALL







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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
R	A. Building Code				k. Bond beam located at first course above and below bearing elevations and at top of walls are structural bond beams and shall have reinforcement continuous through control joints.				J. Miscellaneous				Symbols				L	
	1. The design and construction shall conform to the 2018 International Building Code (IBC) as amended by the City of Liberty, Missouri.				l. Joint reinforcing and intermediate bond beam (those not included in Note 1.j above) reinforcing shall be discontinuous at control joints.				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.				A				LBS	
Q	B. Design Loads				m. Reinforcing lap splice lengths (UNO) per schedule on S54# series of sheets.				2. The building is designed to function as a unit upon completion and is not structurally stable until all connections, framing, shearwalls, permanent bracing, metal decking, and exterior load bearing walls (where applicable) 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/or sequences. Temporary bracing plans should include installation and removal sequencing as applicable. Temporary bracing systems are not to be removed until structural work is complete.				A				LG	
	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. Vertical Reinforcement:				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.				A				LLBB	
	2. Dead Loads				a. Refer to masonry wall elevations for individual structures for vertical reinforcement, unless otherwise indicated, provide (1) #5 vertical centered in the wall at the following spacing: 48" OC.				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.				A				LLH	
	a. The roof mounted equipment weights used for design are indicated on the contract documents. The Contractor shall submit actual weights for all roof mounted equipment for review by the Engineer.				b. Provide an additional vertical reinforcement at each side of control joints, at intersection of exterior walls, and at each side of all masonry openings greater than 10" in width. In openings wider than 24" provide additional vertical reinforcement in two adjacent cells on each side of the opening. Added vertical reinforcement shall be continuous for the full height of wall UNO. See add bar detail on this drawing. Provide foundation dowel same size and location as vertical bars in all above. Dowel bars shall be located at each vertical wall reinforcement and shall extend a minimum of 18" into the concrete foundation wall.				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.				A				LLV	
	b. Total service roof dead load: 25 psf (Includes 10 psf collateral load)				c. Extend all vertical bars from the bottom course through the top most bond beam.				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.				A				LOC	
	3. Live Loads				3. Horizontal Reinforcement:				7. Submittals				A				LONG	
	a. Code Loads				a. Construct bond beams using (1) #5 horizontal in 8" Clay Masonry.				a. Submittals are to be based upon the latest submitted contract documents. This includes all addendums, Architectural Supplemental Instructions (ASIs), Structural Supplemental Drawings (SSDs), and Requests for Information (RFIs).				A				LR	
	1. Roof 30 psf				b. Locate bond beams at the bottom-most course and the top-most.				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.				A				LSH	
	b. Live load reduction has not been utilized.				c. Provide bond beam below all masonry openings and extend a minimum of 16" beyond each side of opening.				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.				A				LSV	
	4. Snow - The snow load is in accordance with ASCE 7 with the following criteria:				d. Discontinue bond beam reinforcement at all wall control joints except at elevated floor and roof levels and as indicated in note 1.k of these notes and S54# series of sheets.				d. Submittals - Provide the following submittals for review:				A				LWC	
	a. Ground snow load $p_g = 20$ psf,				e. Provide horizontal joint reinforcement at every other course or a maximum 16" spacing. Begin joint reinforcing at the top of second block course above floor slab.				1. Concrete Mix Design and Materials				A				LWC	
	b. Exposure Factor $C_e = 1.00$				4. Control Joint:				2. Concrete Reinforcing				A				LWC	
	c. Importance Factor $I_s = 1.00$				a. Use premolded control joint key inserts with sash block; use corrugated metal separator at bond beam locations.				3. Embedded Items (plates, angles, etc.)				A				LWC	
	d. Thermal Factor $C_t = 1.10$				b. Locate control joint where indicated on the floor plans; or when not indicated as listed below:				4. Masonry Products and Materials				A				LWC	
	e. Roof Slope Factor $C_s = 1.0$				1. Locate approximately 1/2 the wall height from wall intersections. Locate at spacing not greater than 24"-0" in interior walls; 15'-0" in exterior walls UNO.				5. Masonry Reinforcing				A				LWC	
	f. Flat Roof Snow Load $p_s = 15.4$ psf				2. Avoid creating slip planes at door or window locations.				6. Structural Steel				A				LWC	
	g. Minimum Snow Load $p_m = 22$ psf				3. Locate above expansion and control joints in supporting concrete floor, beams or walls.				7. Miscellaneous Steel including lintels, stairs, etc.				A				LWC	
	5. Wind - The wind load is in accordance with ASCE 7 with the following criteria:				4. Do not provide intermediate control joints in parapet walls unless so indicated on the architectural drawings				e. Substitutions are allowed prior to bid only. Reference the specifications for timing of submission				A				LWC	
	a. Basic wind speed $V = 110$ mph				c. Expansion/Contraction Joints:				1. Provide continuous compressible filler or fire safeguard insulation as required (full width and full length) of the same thickness as the joint.				A				LWC	
	b. Allowable Stress Design Wind Speed $V_{ASD} = 86$ mph				1. Provide continuous compressible filler or fire safeguard insulation as required (full width and full length) of the same thickness as the joint.				2. Concrete Reinforcing				A				LWC	
	c. Risk Category II				2. Discontinue bond beam reinforcement at all wall control joints except at elevated floor and roof levels and as indicated in note 1.k of these notes and S54# series of sheets.				3. Embedded Items (plates, angles, etc.)				A				LWC	
	d. Exposure Category C				5. Lintels:				4. Masonry Products and Materials				A				LWC	
	e. Internal Pressure Coefficient $\pm 0.55$				a. Provide masonry lintels above openings in masonry walls as required. See A13/S541.				5. Masonry Reinforcing				A				LWC	
	f. Components & Cladding Force per code				6. Grout:				6. Structural Steel				A				LWC	
	6. Seismic - The seismic design is in accordance with the general building code with the following criteria:				a. Grout shall be consolidated by means of mechanical vibration unless self-consolidating grout is used.				1. All steel fabrication and erection shall be in accordance with the requirements and recommendations of the American Institute of Steel Construction (AISC) Code of Standard Practice for Steel Buildings and Bridges, Latest Edition.				A				LWC	
	a. Importance Factor $I_e = 1.00$				b. Grout solid all units below finished floor elevation.				a. Steel design shall be per Allowable Stress Design as outlined by AISC.				A				LWC	
	b. Risk Category II				2. Grade				2. Channels, angles and plates ASTM A36				A				LWC	
	c. 0.2 sec Spectral Response Acceleration $S_S = 9.4\%$				a. Square hollow structural shapes ASTM A500, Grade C (50 ksi)				b. Square hollow structural shapes ASTM A500, Grade C (50 ksi)				A				LWC	
	d. 1.0 sec Spectral Response Acceleration $S_1 = 6.9\%$				c. Round hollow structural shapes ASTM A500, Grade C (46 ksi)				d. Connection material ASTM A36				A				LWC	
	e. Soil Site Class D (Assumed)				3. Anchor Rods				3. Anchor Rods				A				LWC	
	f. Design 0.2sec Spectral Response Acceleration $S_{DS} = 10.1\%$				a. Anchor rods shall conform to ASTM F1554, Grade 55.				b. Steel or plywood templates shall be used for all anchor rod placement in concrete and masonry. Provide a nut above and below the template to control vertical alignment.				A				LWC	
	g. Design 1.0sec Spectral Response Acceleration $S_{D1} = 11.0\%$				b. Thermal cutting is not allowed in the field.				4. Thermal cutting is not allowed in the field.				A				LWC	
	h. Seismic Design Category B				5. The contractor shall supply all miscellaneous steel as required by the contract documents. Miscellaneous steel shall include, but is not limited to, shelf angle, glass support, lintels, catwalks and other steel required for stabilization of architectural elements.				5. The contractor shall supply all miscellaneous steel as required by the contract documents. Miscellaneous steel shall include, but is not limited to, shelf angle, glass support, lintels, catwalks and other steel required for stabilization of architectural elements.				A				LWC	
	i. Basic Seismic Force Resisting System Ordinary reinforced masonry shear walls				6. The Contractor shall provide an additional allowance of 2% of the steel bid (includes specification sections 051200, 052100, 053100, 055000) for steel material, fabrication and erection to be used at the direction of the Structural Engineer. Any unused portion of the allowance shall be returned to the owner.				6. The Contractor shall provide an additional allowance of 2% of the steel bid (includes specification sections 051200, 052100, 053100, 055000) for steel material, fabrication and erection to be used at the direction of the Structural Engineer. Any unused portion of the allowance shall be returned to the owner.				A				LWC	
N	7. Rain - The rain load is in accordance with the general building code and ASCE 7 with the following criteria:				H. Post Installed Anchors				1. All post installed anchors shall be designed assuming cracked concrete at the anchorage.				A				LWC	
	a. Rainfall Intensity (15 minute) 7.59 in./hr				1. All post installed anchors shall be installed per the manufacturers recommendations.				2. All post installed anchors shall be installed per the manufacturers recommendations.				A				LWC	
	b. Rainfall Intensity (60 minute) 3.66 in./hr				a. Install expansion anchors per the manufacturers recommended standard embedment unless otherwise noted in the contract documents.				a. Install expansion anchors per the manufacturers recommended standard embedment unless otherwise noted in the contract documents.				A				LWC	
M	C. Foundations				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.				4. All Engineered LVL Lumber shall have the following minimum material properties.				A				LWC	
	1. Geotechnical Report				3. All expansion anchors shall perform to a minimum load capacity of the Hilti Kwik Bolt 3 or approved equal.				a. $F_b = 2600$ psi				A				LWC	
	a. A Geotechnical Engineering Report was not provided for this project.				4. All adhesive anchors embedded in concrete shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.				b. $F_v = 285$ psi				A				LWC	
	2. Spread Footings, Trench Footing and Grade Beams				5. All anchors shall be stainless steel at exterior exposed conditions.				c. $E = 1,900,000$ psi				A				LWC	
	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.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				d. $F_{cl} = 2510$ psi				A				LWC	
	D. Concrete				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				e. $F_{cl} = 750$ psi				A				LWC	
	1. All concrete and reinforcing details shall conform to ACI 318 and CRSI "Manual of Standard Practice".				I. Wood													
	2. Strength - The following areas shall have a minimum 28 day compressive strength:				1. All wood framing shall be designed and erected in accordance with the recommendations of the latest edition of the National Design Specification (NDS) For Wood Construction Manuals.				2. All wood framing shall be Douglas Fir-Larch #2 or better with 19% maximum moisture content at the time of manufacture.				A				LWC	
	a. Interior flatwork concrete: 4000 psi				3. Plywood				3. Plywood				A				LWC	
	b. Exterior flatwork concrete: 4000 psi				a. Stagger panel ends of roof sheathing.				a. Stagger panel ends of roof sheathing.				A				LWC	
	c. Footing and grade beams: 4000 psi				b. H-Clips shall be used for all roof sheathing.				b. H-Clips shall be used for all roof sheathing.				A				LWC	
	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. All Engineered LVL Lumber shall have the following minimum material properties.				4. All Engineered LVL Lumber shall have the following minimum material properties.				A				LWC	
	4. Reinforcing				a. $F_b = 2600$ psi				a. $F_b = 2600$ psi				A				LWC	
	a. Grade				b. $F_v = 285$ psi				b. $F_v = 285$ psi				A				LWC	
	1. Typical reinforcing ASTM A615, Grade 60				c. $E = 1,900,000$ psi				c. $E = 1,900,000$ psi				A				LWC	
	2. Welded reinforcing ASTM A706				d. $F_{cl} = 2510$ psi				d. $F_{cl} = 2510$ psi				A				LWC	
	Lap splices and development lengths in reinforcement shall be per the Typical Reinforcing Splice Length Table (J1/S530) unless indicated elsewhere in the drawings and specifications. Lap welded wire reinforcing one full mesh space plus 2 inches.				e. $F_{cl} = 750$ psi				e. $F_{cl} = 750$ psi				A				LWC	
	c. Welded Wire Reinforcing ASTM A1064				f. $G = 125,000$ psi				f. $G = 125,000$ psi				A				LWC	
	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.				5. Reference IBC Table 2304.10.1 for minimum fastening requirements.				5. Reference IBC Table 2304.10.1 for minimum fastening requirements.				A				LWC	
	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.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				A				LWC	
	d. All concrete shall be reinforced unless specifically identified on the drawings as unreinforced. Reinforce sections with similar conditions located elsewhere on the project.				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				A				LWC	
	e. All synthetic and steel fiber reinforcement shall be considered secondary reinforcing only.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				A				LWC	
	5. Concrete cover shall be the following:				8. All expansion anchors shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.				8. All expansion anchors shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.				A				LWC	
	a. Concrete cast against and exposed to earth 3"				5. All anchors shall be stainless steel at exterior exposed conditions.				5. All anchors shall be stainless steel at exterior exposed conditions.				A				LWC	
	b. Concrete exposed to earth or weather #5 and smaller 1 1/2"				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				A				LWC	
	c. Concrete exposed to earth or weather #6 and larger 2"				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				A				LWC	
	All openings in slabs, walls, foundations, etc. 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.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				A				LWC	
	7. The Contractor shall provide an additional (10) #4 x 20'-0" and (10) #5 x 20'-0" 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. All expansion anchors shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.				8. All expansion anchors shall perform to a minimum load capacity of the Hilti Hit HY-200-R V3 Adhesive Anchors.				A				LWC	
	8. Aluminum items shall not be embedded in concrete.				5. All anchors shall be stainless steel at exterior exposed conditions.				5. All anchors shall be stainless steel at exterior exposed conditions.				A				LWC	
	F. Masonry				I. Wood				1. All wood framing shall be designed and erected in accordance with the recommendations of the latest edition of the National Design Specification (NDS) For Wood Construction Manuals.				A				LWC	
	1. General:				2. All wood framing shall be Douglas Fir-Larch #2 or better with 19% maximum moisture content at the time of manufacture.				2. All wood framing shall be Douglas Fir-Larch #2 or better with 19% maximum moisture content at the time of manufacture.				A				LWC	
	a. Engineered masonry is designed in accordance with "Building Code Requirements for Masonry Structures" (TMS 402/602, Latest Edition).				3. Plywood				3. Plywood				A				LWC	
	b. Materials:				a. Stagger panel ends of roof sheathing.				a. Stagger panel ends of roof sheathing.				A				LWC	
	Atlas Hollow Brick, ASTM C-652				b. H-Clips shall be used for all roof sheathing.				b. H-Clips shall be used for all roof sheathing.				A				LWC	
	Minimum Compressive Strength = 9000 PSI				4. All Engineered LVL Lumber shall have the following minimum material properties.				4. All Engineered LVL Lumber shall have the following minimum material properties.				A				LWC	
	Mortar: Type S (for reinforced masonry)				a. $F_b = 2600$ psi				a. $F_b = 2600$ psi				A				LWC	
	Grout: ASTM C476, Minimum Compressive strength = 3000 PSI				b. $F_v = 285$ psi				b. $F_v = 285$ psi				A				LWC	
	Reinforcing steel: ASTM A615, Grade 60				c. $E = 1,900,000$ psi				c. $E = 1,900,000$ psi				A				LWC	
	c. All walls shall be running bond type construction UNO.				d. $F_{cl} = 2510$ psi				d. $F_{cl} = 2510$ psi				A				LWC	
	d. All Clay Masonry cells with reinforcing or anchors shall be filled with grout.				e. $F_{cl} = 750$ psi				e. $F_{cl} = 750$ psi				A				LWC	
	e. All vertical Clay Masonry wall reinforcing shall have full contact lap splices with dowels from foundation.				f. $G = 125,000$ psi				f. $G = 125,000$ psi				A				LWC	
	f. All Clay Masonry lintels shall be U-shape blocks. Do not use knockout type for lintels.				5. Reference IBC Table 2304.10.1 for minimum fastening requirements.				5. Reference IBC Table 2304.10.1 for minimum fastening requirements.				A				LWC	
	g. Inserting dowels into fresh or partially hardened concrete or grout is prohibited. Bars shall be secured per CRSI in-place prior to concrete or grout pour.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				6. Any wood member that rests on or is in contact with concrete, earth or masonry shall be exterior preservative pressure treated.				A				LWC	
	h. All Clay Masonry bond beams shall be knockout type. Portions of bond beam that are knocked out shall be removed prior to reinforcing and grout installation.				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				7. All metal wood connectors shall perform to a minimum load capacity of the Simpson Strong Tie products. All connectors shall be capable of resisting the corrosive effects of the exterior preservative pressure treatment and shall be completely installed prior to loading the connections.				A				LWC	
	i. Vertical Clay Masonry reinforcement shall be continuous through lintels and shall extend the entire height of the wall.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				8. Roof sheathing shall be OSB panels 7/16" minimum nominal thickness, exterior rated sheathing, exposure 1. Run panels perpendicular to the supports, stagger panel ends 1/2 panel length. Attach with 8D common or deformed shank nails (1 3/8" minimum penetration) 2' on center along building perimeter and continuous panel edges. 2' on center at panel edges and 12" on center at intermediate supports. Space nails at 2' on center within 3'-0" of building corners and edges. Provide 2x blocking at all plywood boundaries. Maximum diaphragm shear (service level) = 700 LB/FT.				A				LWC	
A																		



R

Q

P

N

M

Special Inspection Prior to Welding - Table N5.4-1			
Req'd	Inspection Task	Continuous	Periodic
Yes	1. Welding procedure specifications (WPSs) available	X	
Yes	2. Manufacturer certifications for welding consumables available	X	
Yes	3. Material identification (type/grade)		X
Yes	4. Welder identification system		X
Yes	5. Fit-up of groove welds (including joint geometry)		
Yes	5.a. Joint preparation		X
Yes	5.b. Dimensions (alignment, root opening, root face, bevel)		X
Yes	5.c. Cleanliness (condition of steel surfaces)		X
Yes	5.d. Tacking (tack weld quality and location)		X
Yes	5.e. Backing type and fit (if applicable)		X
Yes	6. Configuration and finish of access holes		X
Yes	7. Fit-up of fillet welds		
Yes	7.a. Dimensions (alignment, gaps at root)		X
Yes	7.b. Cleanliness (condition of steel surfaces)		X
Yes	7.c. Tacking (tack weld quality and location)		X
Yes	8. Check welding equipment		X

L

K

J

H

G

F

Special Inspection During Welding - Table N5.4-2			
Req'd	Inspection Task	Continuous	Periodic
Yes	1. Use of qualified welders		X
Yes	2. Control and handling of welding consumables		
Yes	2.a. Packaging		X
Yes	2.b. Exposure control		X
Yes	3. No welding over cracked tack welds		X
Yes	4. Environmental conditions		
Yes	4.a. Wind speed within limits		X
Yes	4.b. Precipitation and temperature		X
Yes	5. WPS followed		X
Yes	5.a. Settings on welding equipment		X
Yes	5.b. Travel speed		X
Yes	5.c. Selected welding materials		
Yes	5.d. Shielding gas type/flow rate		X
Yes	5.e. Preheat applied		X
Yes	5.f. Interpass temperature maintained (min. /max.)		X
Yes	5.g. Proper position (F, V, H, OH)		X
No	5.h. Intermix of filler metals avoided unless approved...		
Yes	6. Welding techniques		
Yes	6.a. Interpass and final cleaning		X
Yes	6.b. Each pass within profile limitations		X
Yes	6.c. Each pass meets quality requirements		X

C

B

A

Special Inspection After Welding - Table N5.4-3			
Req'd	Inspection Task	Continuous	Periodic
Yes	1. Welds cleaned		X
Yes	2. Size, length and location of welds	X	
Yes	3. Welds meet visual acceptance criteria		
Yes	3.a. Crack prohibition	X	
Yes	3.b. Weld/base-metal fusion	X	
Yes	3.c. Crater cross section	X	
Yes	3.d. Weld profiles	X	
Yes	3.e. Weld size	X	
Yes	3.f. Undercut	X	
Yes	3.g. Porosity	X	
Yes	4. Arc strikes	X	
Yes	5. k-area	X	
Yes	6. Backing removed and weld tabs removed (if required)	X	
Yes	7. Repair activities	X	
Yes	8. Document acceptance or rejection of welded joint or member	X	
No	9. Placement of reinforcing or contouring fillet welds (if required) (ref: AISC 341-10)		
No	10. Backing removed, weld tabs removed and finished, and fillet welds added (if required) (ref: AISC 341-10)		

Special Inspection of Galvanized Structural Steel Main Members - Section N5.7			
Req'd	Inspection Task	Continuous	Periodic
Yes	Visually inspect exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS for cracks subsequent to galvanizing.		X

Other Inspection Task - Section N5.8

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Verify compliance of fabricated steel with the details shown on the approved shop drawings.		X
Yes	2. Verify compliance of the erected steel frame with the details shown on the approved erection drawings, including braces, stiffeners, member locations and joint details.		X
Yes	3. Anchor rods and other embeddings support structural steel		
Yes	3.a. Verify the diameter, grade, type and length of the anchor rod or embedded item.		X
Yes	3.b. Verify the extent or depth of embedment into the concrete.		X
No	4. RBS requirements, if applicable (ref: AISC 341-10)		
No	4.a. Contour and finish		
No	4.b. Dimensional tolerances		
No	5. Protected zone—no holes and unapproved attachments made by fabricator or erector, as applicable (ref: AISC 341-10)		
No	6. H-piles - Protected zone—no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-10)		

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

Special Inspection of Masonry Construction - Table 1705.4

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect masonry construction in accordance with IBC-15 Section 1705.4 and TMS 602-16 Article 1.6.		

Special Inspection of Wood Construction - Table 1705.5

Req'd	Inspection Task	Continuous	Periodic
Yes	1. Inspect prefabricated wood structural elements in accordance with Section 1704.2.5		X
No	2. High load diaphragms:		
No	2.a. Verify sheathing grade and thickness.		X
No	2.b. Verify nominal size of framing members at adjoining panel edges.		X
No	2.c. Verify nail or staple diameter and length.		X
No	2.d. Verify number of fastener lines.		X
No	2.e. Verify spacing between fasteners in each line and at panel edges.		X
No	3. Shearwalls:		
No	3.a. Verify sheathing grade and thickness.		X
No	3.b. Verify nominal size of framing members at adjoining panel edges.		X
No	3.c. Verify nail or staple diameter and length.		X
No	3.d. Verify number of fastener lines.		X
No	3.e. Verify spacing between fasteners in each line and at panel...		X
No	3.f. Location and size of holdowns.		X
Yes	4. Verify nailing, bolting, anchoring and fastening of:		
No	4.a. Drag struts and collectors.		X
No	4.b. Braces.		X
Yes	4c. Hold-downs.		X
No	5. Metal-plate-connected wood trusses spanning 60 feet or greater:		
No	5.a. Verify temporary installation restraint/bracing installed in accordance with the approved shop drawings.		X
No	5.b. Verify permanent individual truss member restraint/bracing installed in accordance with the approved shop drawings.		X

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 Masonry Construction - Table 1705.4

Req'd	Inspection Task	Continuous	Periodic
Yes	Level 2 Quality Assurance		
Yes	Tests:		
Yes	1. Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-16 Specification Article 1.5B-1.b.3 for self-consolidating grout.		X
Yes	2. Verify Fm and Faac in accordance with TMS 602-16 Specification Article 1.4B prior to construction, except where specifically exempted.		X
	Inspection:		
Yes	1. Verify compliance with the approved submittals and project specifications.		X
Yes	2. At the start of masonry construction, verify:		
Yes	2.a. Proportions of site-prepared mortar.		X
Yes	2.b. Construction of mortar joints.		X
No	2.c. Grade and size of prestressing tendons and anchorages.		
No	2.d. Location of reinforcement, connectors, prestressing tendons and anchorages.		
No	2.e. Prestressing technique.		
No	2.f. Properties of thin-bed mortar for AAC masonry.(Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)		
Yes	3. Prior to grouting, verify:		
Yes	3.a. Grout space is clean.		X
Yes	3.b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.		X
Yes	3.c. Placement of reinforcing and connectors, and prestressing tendons and anchorages.		X
Yes	3.d. Proportions of site-prepared grout and prestressing grout for bonded tendons.		X
Yes	3.e. Construction of mortar joints.		X
Yes	4. During masonry construction, verify:		
Yes	4.a. Size and location of structural members.		X
Yes	4.b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X
Yes	4.c. Welding of reinforcement.	X	
Yes	4.d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).		X
No	4.e. Application and measurement of prestressing force.		
No	4.f. Placement of grout and prestressing grout for bonded tendons is in compliance.		
No	4.g. Placement of AAC masonry units and construction of thin-bed mortar joints. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)		
Yes	5. Observe preparation of grout specimens, mortar specimens and/or prisms.		X

LHS Baseball & Softball Upgrades

Liberty Public Schools 53

200 Blue Jay Drive  
Liberty, MO 64068

REVISIONS:

#	Description	Date
---	-------------	------



David A. Krell - Engineer  
MO# PE-2021014172

JOB NO: 23023.00  
DRAWN BY: JCH  
CHECKED BY: LJR  
DATE: 07.12.2023

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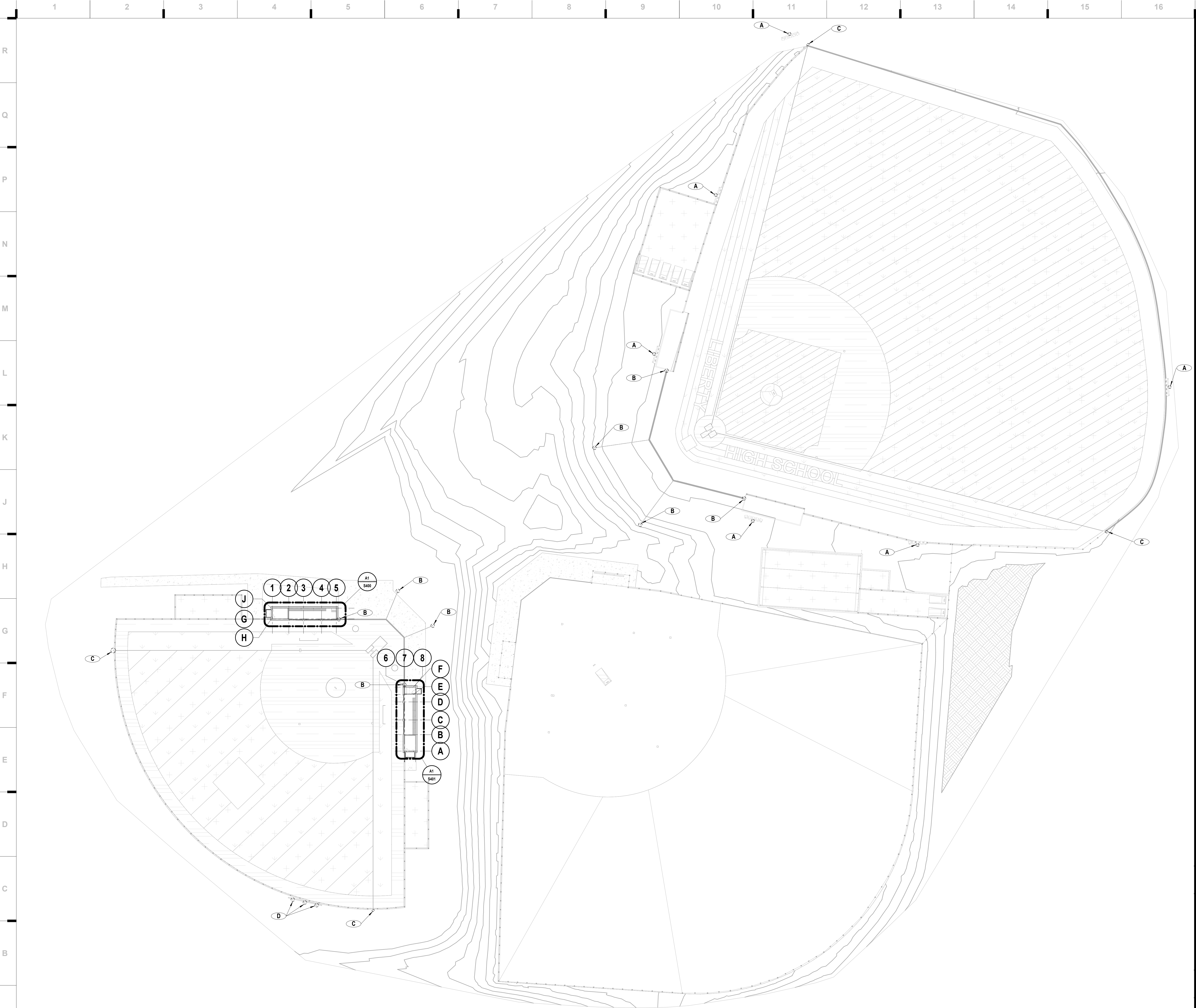
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Structure # 200601333

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Olathe, KS 66061  
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7/12/2023 2:47:10 PM



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



PLAN REFERENCE NOTES

- A** 70' MUSCO LIGHT POLE FOOTING PER LIGHT POLE MFR.  
REF: N5/S530.
- B** TENSION BACKSTOP NETTING FOOTING PER N9/S530.
- C** FOUL POLE FOOTING PER N13/S530.
- D** BATTER'S EYE FOOTING PER J5/S530.

FOUNDATION NOTES

- TOP OF SITE POLE FOOTINGS ELEVATION = FINISHED GRADE UNO. REF CIVIL FOR GRADE ELEVATION.
- REFERENCE ARCHITECTURAL FOR LOCATION AND QUANTITY OF SITE POLE FOOTINGS.

LHS Baseball & Softball Upgrades

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REVISIONS:		
#	Description	Date



07/12/2023  
David A. Krell - Engineer  
MO# PE-2021014172

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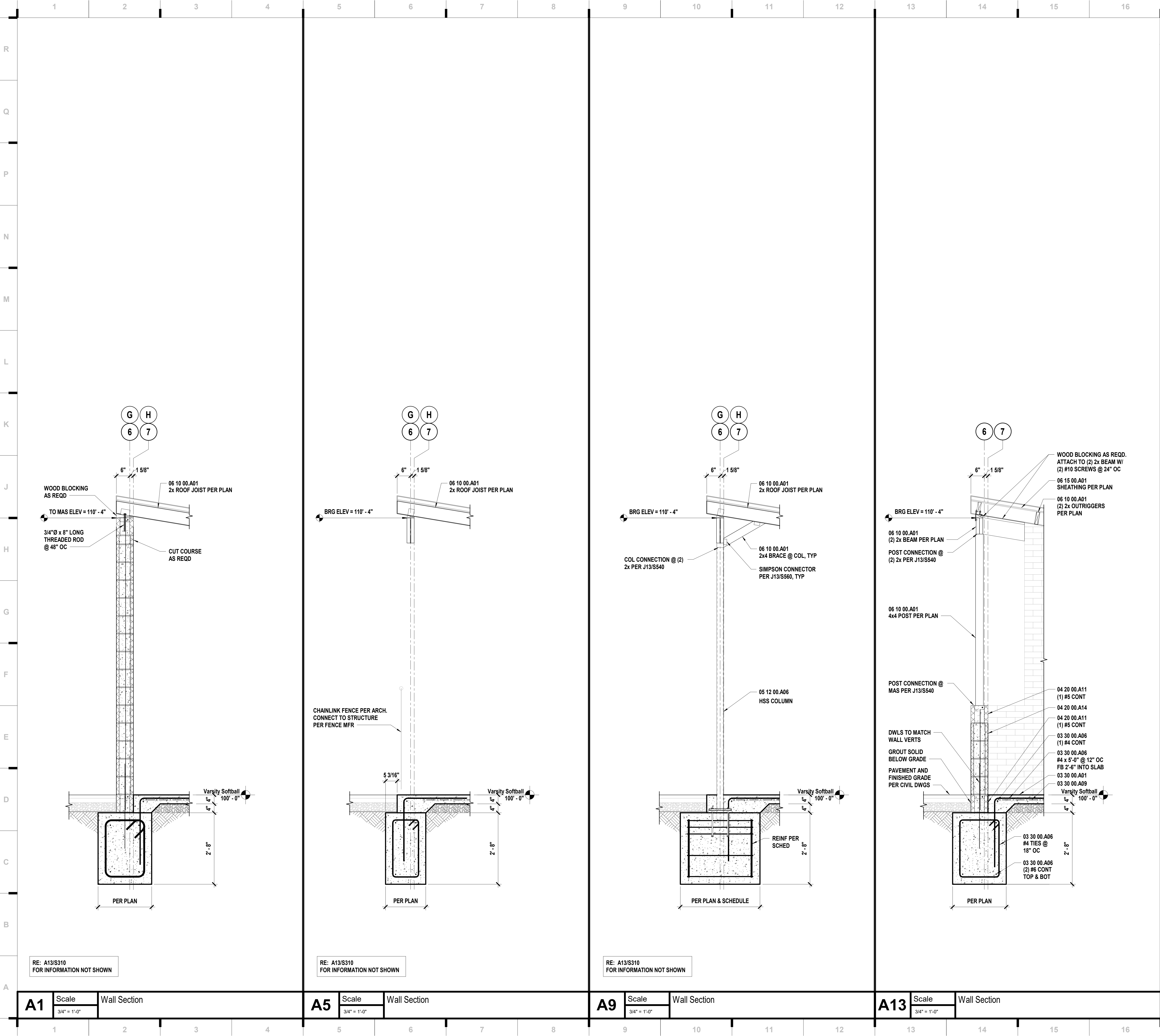
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DOCUMENTS

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SHEET KEYNOTE LEGEND

03 30 00.A01

CAST-IN-PLACE CONCRETE

03 30 00.A06

REINFORCING BARS

03 30 00.A09

WELDED WIRE REINFORCEMENT

04 20 00.A11

MASONRY BOND BEAM

04 20 00.A14

STRUCTURAL CLAY MASONRY UNITS

05 12 00.A06

HSS SHAPE

06 10 00.A01

DIMENSION LUMBER FRAMING

06 15 00.A01

WOOD ROOF DECKING

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REVISIONS:

#	Description	Date
01/12/2022		

STATE OF MISSOURI

DAVID A. KRELL

NUMBER

PE-2021014172

07/12/2022

David A. Krell - Engineer

MO# PE-2021014172

The Professional Engineer seal shall be the official seal of the Engineer and shall be the property of the Engineer. It shall be the responsibility of the Engineer to maintain the seal in good condition and to use it only for the purpose for which it was issued.

JOB NO: 23023.00

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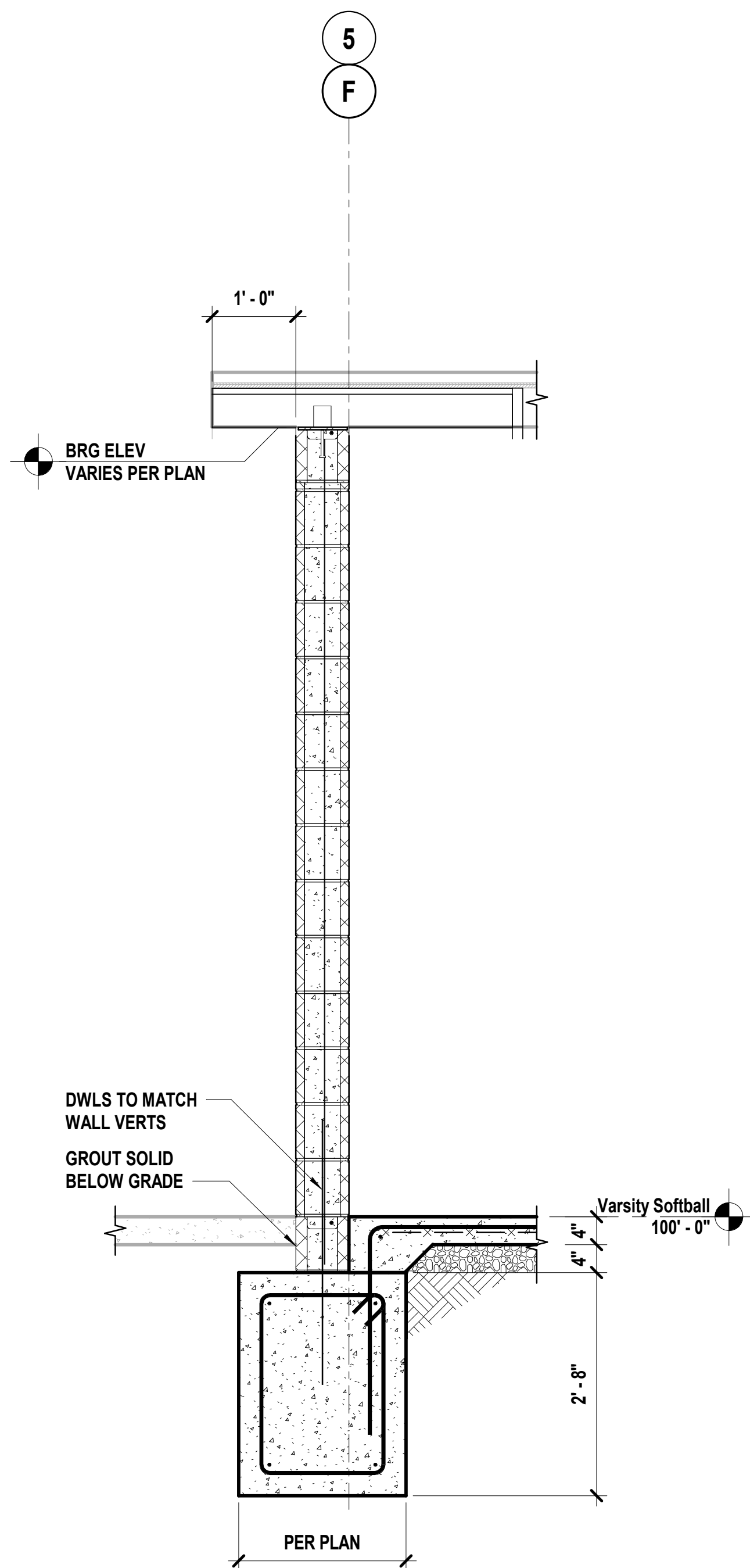
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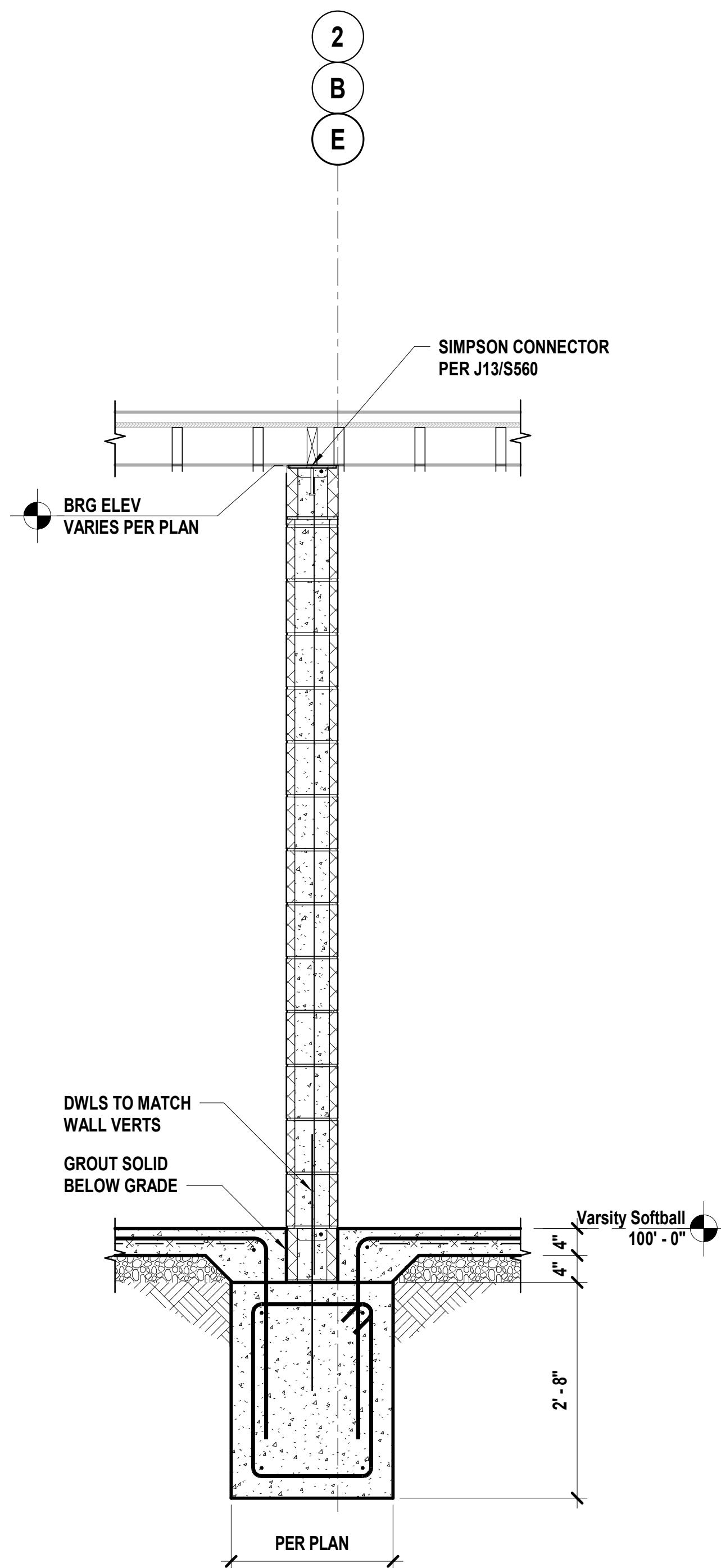
S310

WALL SECTIONS

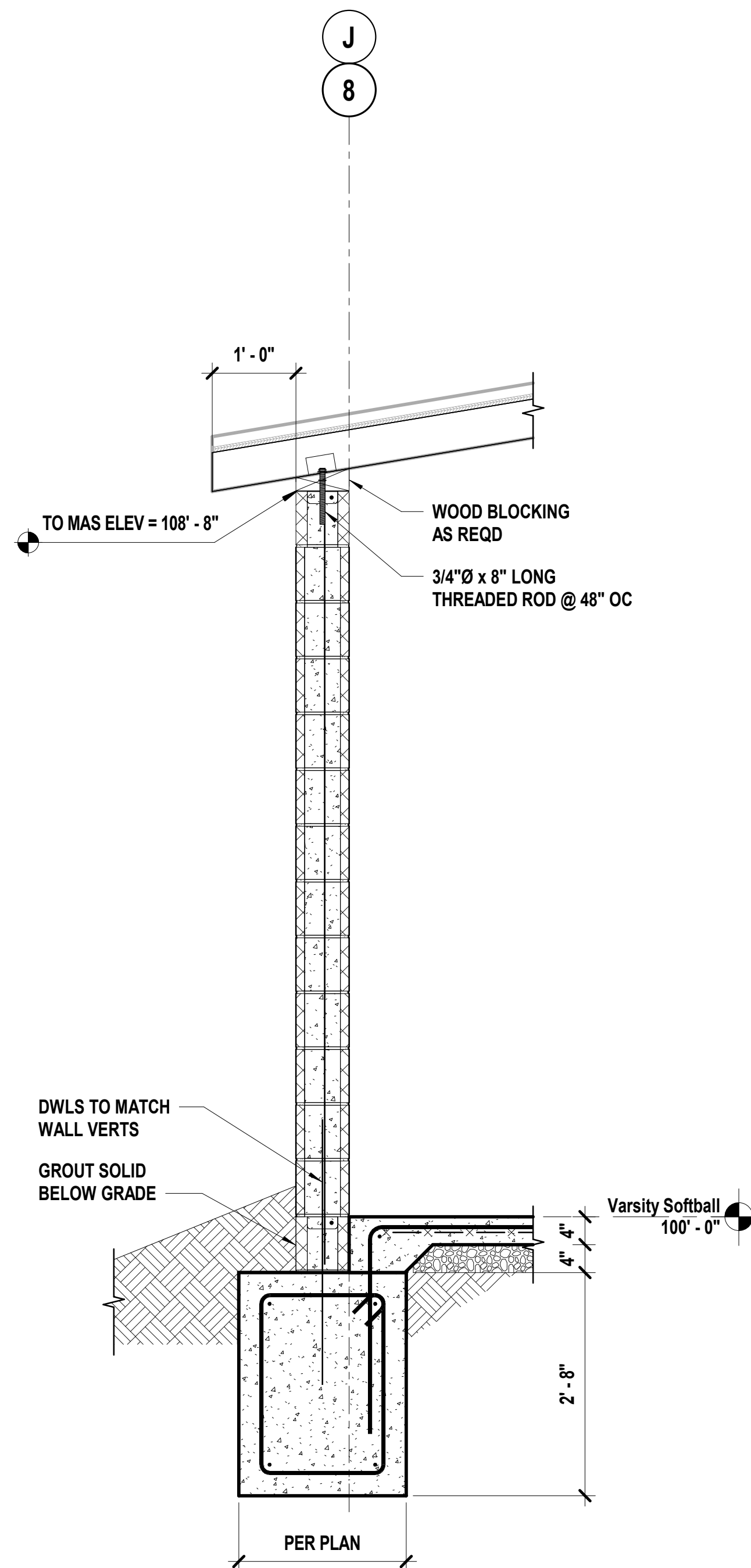




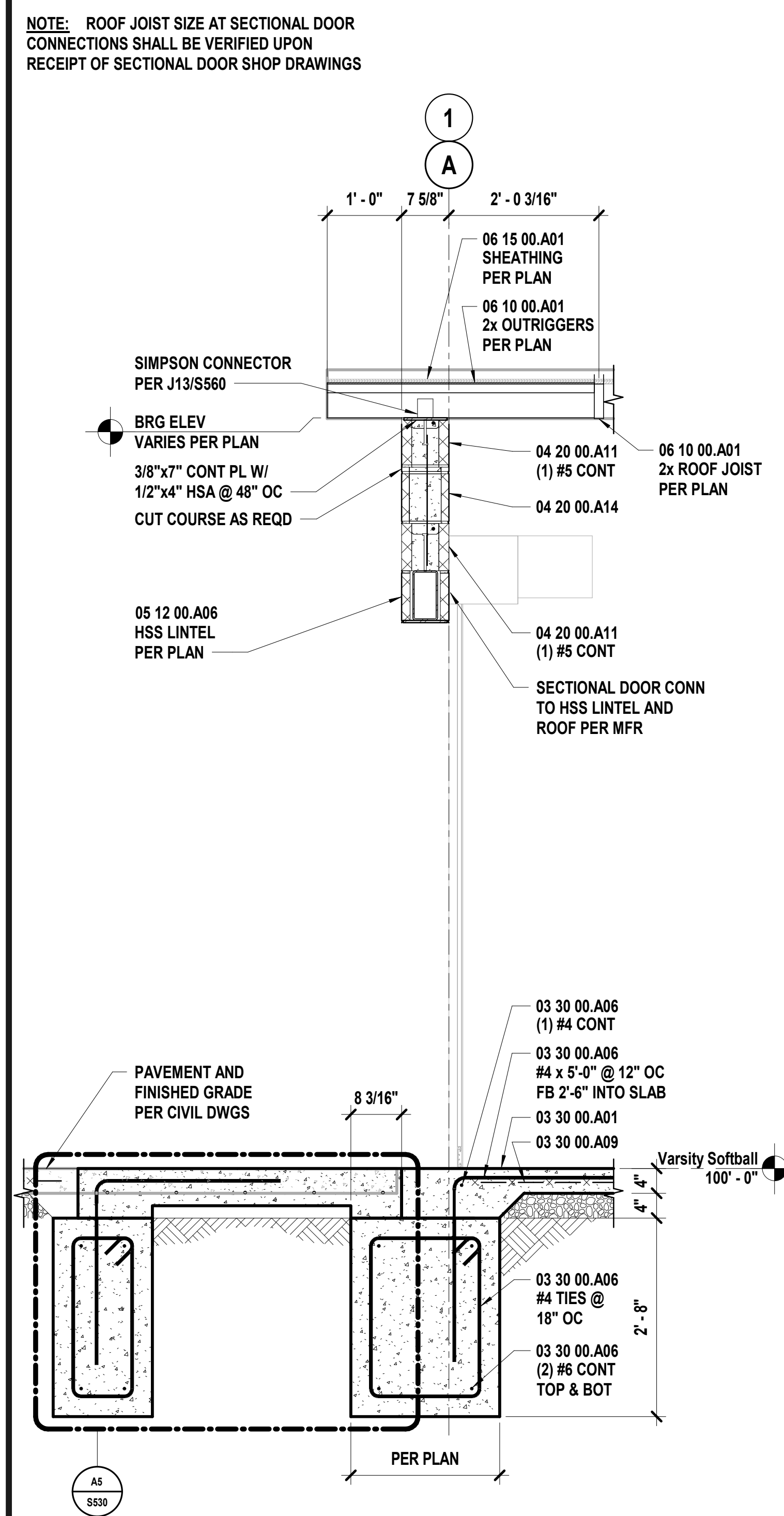
RE: A13/S311  
FOR INFORMATION NOT SHOWN



RE: A13/S311  
FOR INFORMATION NOT SHOWN



RE: A13/S311  
FOR INFORMATION NOT SHOWN



**NOTE:** ROOF JOIST SIZE AT SECTIONAL DOOR CONNECTIONS SHALL BE VERIFIED UPON RECEIPT OF SECTIONAL DOOR SHOP DRAWINGS

## SHEET KEYNOTE LEGEND

03 30 00.A01	CAST-IN-PLACE CONCRETE
03 30 00.A06	REINFORCING BARS
03 30 00.A09	WELDED WIRE REINFORCEMENT
04 20 00.A11	MASONRY BOND BEAM
04 20 00.A14	STRUCTURAL CLAY MASONRY UNITS
05 12 00.A06	HSS SHAPE
06 10 00.A01	DIMENSION LUMBER FRAMING
06 15 00.A01	WOOD ROOF DECKING

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**CONSTRUCTION  
DOCUMENTS**

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MO# PE-2021014172

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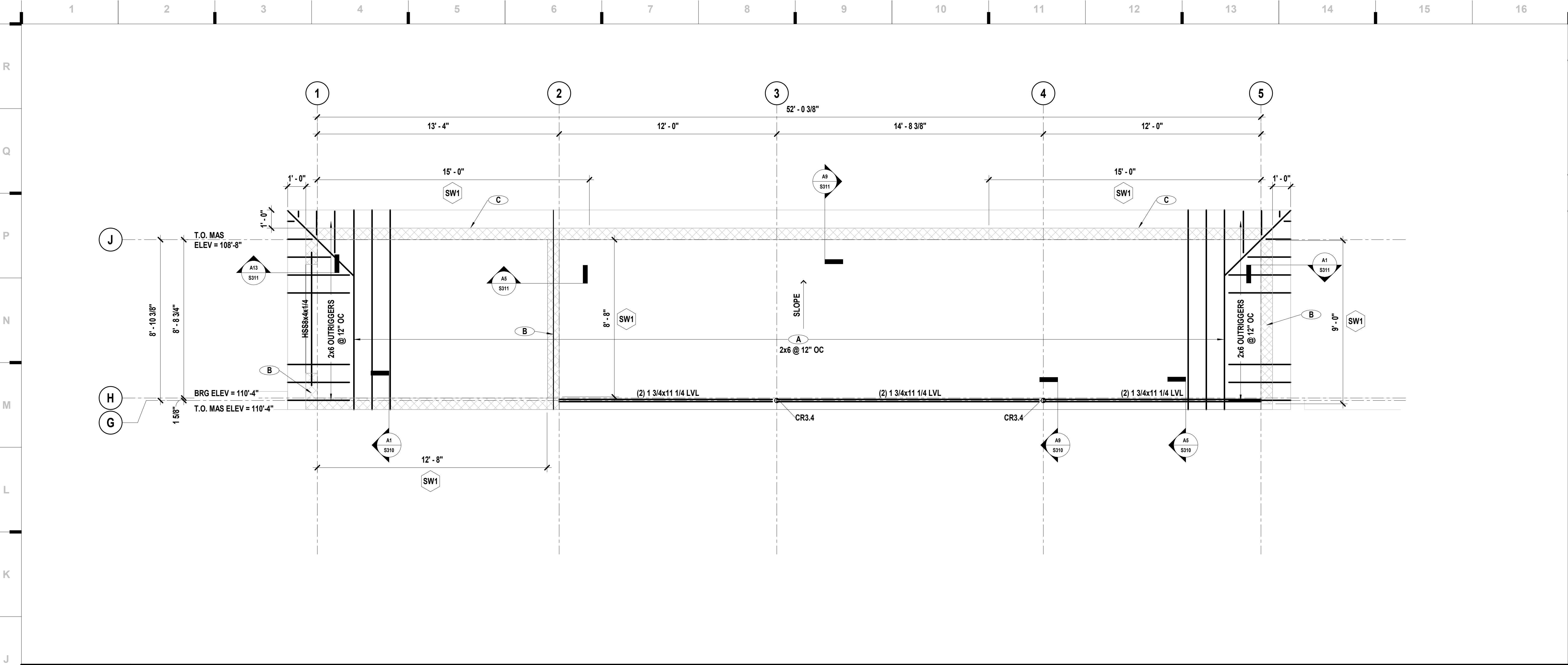
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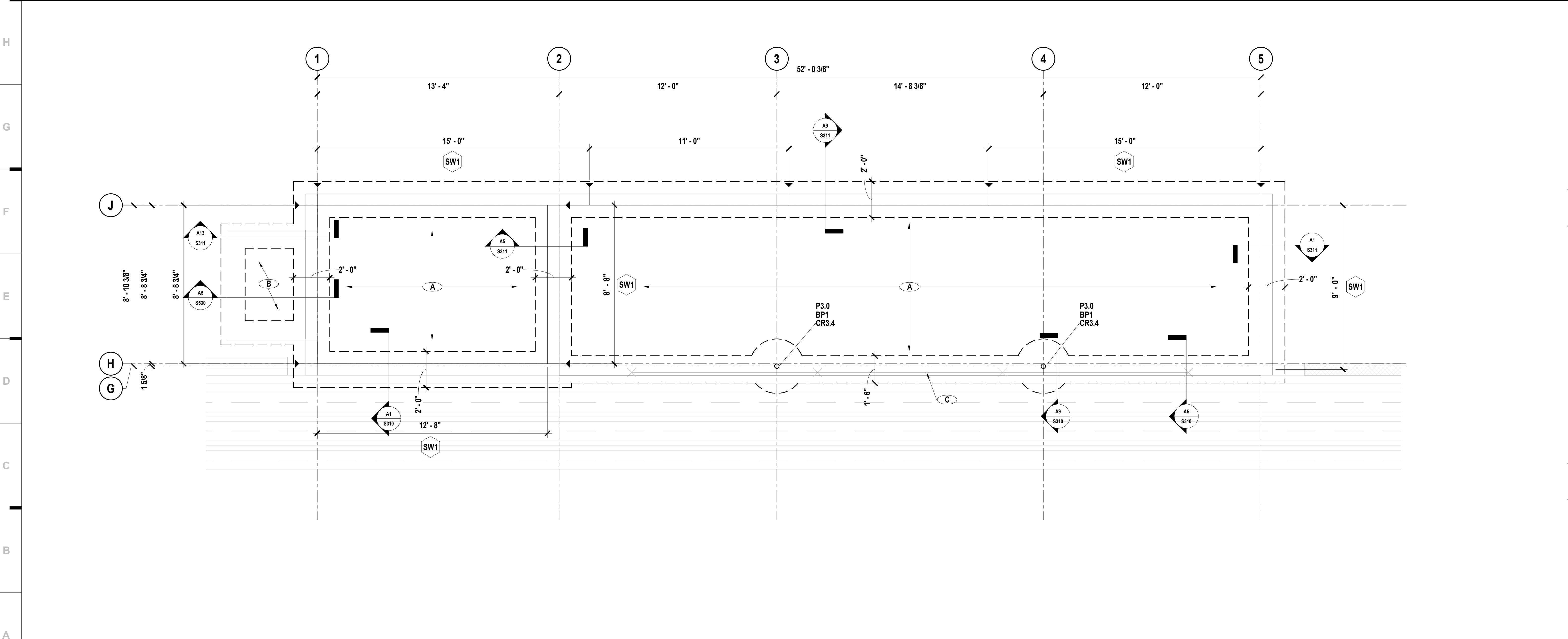
**S311**

## WALL SECTIONS





**J1** Scale North Dugout Roof Framing Plan



**A1** Scale North Dugout Foundation Plan

ROOF FRAMING PLAN REFERENCE NOTES

- (A) ALL ROOF SHEATHING SHALL BE OSB PANELS 7/16" MIN NOMINAL THICKNESS, EXTERIOR RATED SHEATHING WITH 40/20 SPAN RATING, ATTACH PER NOTES ON S301.
- (B) PROVIDE CONT. BRG PL @ TOP OF MASONRY PER TYP DET ON S54# SERIES OF SHEETS.
- (C) PROVIDE 2X BLOCKING BTWN ROOF JOISTS @ SHEARWALLS PER TYP DET ON S56# SERIES OF SHEETS.

ROOF FRAMING PLAN NOTES

- ALL LINTELS IN MASONRY WALLS NOTED ON PLANS PER S54# SERIES OF SHEETS UNO.
- PROVIDE 3/8"x7"x7" WITH (4) 1/2"x x 4" HSA AT ALL BEAM BEARING LOCATIONS.

Structural Drilled Pier Schedule			
Type	Size	Reinforcement	
P3.0	3'-0"Ø x 2'-8"	Size (12) #6	Placement #3 @ 12" OC

Structural Base Plate Schedule			
Type	Plate Size	Anchor Rods	Edge Distance
BP1	3/4X10X0'-10"	AR-1	1 1/2"

Structural Column Schedule	
Type	Size
CR3.4	HSS3x1/4

FOUNDATION PLAN REFERENCE NOTES

- (A) 4" CONCRETE SLAB ON GRADE WITH 15 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION = 100'-0" UNO.
- (B) 6" CONCRETE SLAB ON VOID WITH 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION = 100'-0" UNO.
- (C) CHAINLINK FENCE PER ARCH. CONNECT TO HSS COLS PER FENCE MFR.
- (SW#) INDICATES MASONRY SHEAR WALL, PER SCHEDULE ON S54# SERIES OF SHEET. MASONRY SHEAR WALLS ARE NOT DESIGNED AS PERFORATED SHEAR WALLS AND SHALL NOT ACCOMMODATE FUTURE OPENINGS UNLESS NOTED OTHERWISE.
- (↑) INDICATES SHEAR WALL CONTROL JOINT PER SPECIFICATIONS AND S54# SERIES OF SHEETS. INTERIOR 8" MASONRY WALL CONTROL JOINTS TO BE PLACED PER S301.

FOUNDATION NOTES

- TOP OF FOOTING ELEVATION = 99'-4" UNO.
- PROVIDE SLAB BLOCK OUT AROUND COLUMNS AT CONTRACTORS OPTION PER S53# SERIES OF SHEETS.
- GRIDS INDICATE INSIDE FACE OF MASONRY WALL = CENTERLINE OF STEEL.
- ALL TRENCH FOOTINGS ARE CENTERED ON MASONRY WALLS UNO.
- PROVIDE CONSTRUCTION JOINT IN TRENCH FOOTING AS REQUIRED FOR ELECTRICAL CONDUIT.
- ALL 8" MASONRY WALLS SHALL BE REINFORCED W/ (1) #5 VERT @ 48" OC IN FULLY GROUTED CELLS UNO PER TYP DET ON S54# SERIES OF SHEETS.

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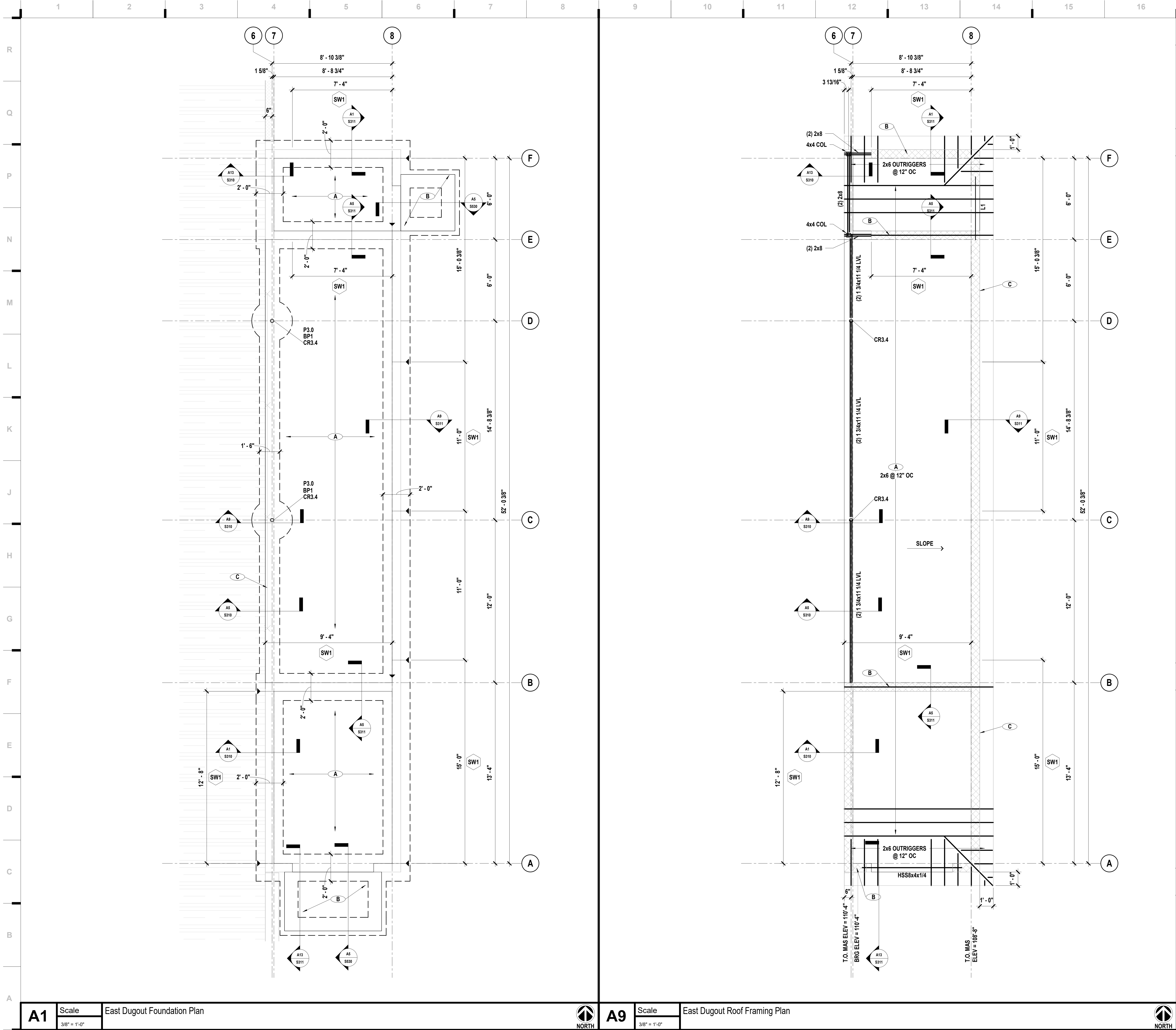
STATE OF MISSOURI  
DAVID A. KRELL  
NUMBER  
PE-2021014172  
PROFESSIONAL ENGINEER

07/12/2023  
David A. Krell - Engineer  
MO# PE-2021014172

JOB NO: 23023.00  
DRAWN BY: JCH  
CHECKED BY: LJR  
DATE: 07.12.2023

S400





ROOF FRAMING PLAN REFERENCE NOTES

A

ALL ROOF SHEATHING SHALL BE OSB PANELS 7/16" MIN NOMINAL THICKNESS, EXTERIOR RATED SHEATHING WITH 40/20 SPAN RATING, ATTACH PER NOTES ON S001.

B

PROVIDE CONT. BRG PL @ TOP OF MASONRY PER TYP DET ON S54# SERIES OF SHEETS.

C

PROVIDE 2X BLOCKING BTWN ROOF JOISTS @ SHEARWALLS PER TYP DET ON S56# SERIES OF SHEETS.

ROOF FRAMING PLAN NOTES

1. ALL LINTELS IN MASONRY WALLS NOTED ON PLANS PER S54# SERIES OF SHEETS UNO.

2. PROVIDE 3/8"x7"x7" WITH (4) 1/2"x4"x4" HSA AT ALL BEAM BEARING LOCATIONS.

Structural Drilled Pier Schedule

Type	Size	Reinforcement	
		Size	Placement
P3.0	3'-0"Ø x 2'-8"	(12) #6	#3 @ 12" OC

Structural Base Plate Schedule

Type	Plate Size	Anchor Rods	Edge Distance
BP1	3/4X10X0'-10"	AR-1	1 1/2"

Structural Column Schedule

Type	Size
CR3.4	HSS3x1/4

FOUNDATION PLAN REFERENCE NOTES

A

4" CONCRETE SLAB ON GRADE WITH 15 MIL VAPOR RETARDER AND 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION = 100'-0" UNO.

B

6" CONCRETE SLAB ON VOID WITH 4" CRUSHED ROCK DRAINAGE FILL PER SPECIFICATION. REINFORCE PER TYPICAL DETAILS. TOP OF CONCRETE ELEVATION = 100'-0" UNO.

C

CHAINLINK FENCE PER ARCH. CONNECT TO HSS COLS PER FENCE MFR.

SW#

INDICATES MASONRY SHEAR WALL, PER SCHEDULE ON S54# SERIES OF SHEET. MASONRY SHEAR WALLS ARE NOT DESIGNED AS PERFORATED SHEAR WALLS AND SHALL NOT ACCOMMODATE FUTURE OPENINGS UNLESS NOTED OTHERWISE.

↑

INDICATES SHEAR WALL CONTROL JOINT PER SPECIFICATIONS AND S54# SERIES OF SHEETS. INTERIOR 8" MASONRY WALL CONTROL JOINTS TO BE PLACED PER S001.

FOUNDATION NOTES

1. TOP OF FOOTING ELEVATION = 99'-4" UNO.

2. PROVIDE SLAB BLOCK OUT AROUND COLUMNS AT CONTRACTORS OPTION PER S530.

3. GRIDS INDICATE INSIDE FACE OF MASONRY WALL = CENTERLINE OF STEEL.

4. ALL TRENCH FOOTINGS ARE CENTERED ON MASONRY WALLS UNO.

5. PROVIDE CONSTRUCTION JOINT IN TRENCH FOOTING AS REQUIRED FOR ELECTRICAL CONDUIT.

6. ALL 8" MASONRY WALLS SHALL BE REINFORCED W/ (1) #5 VERT @ 48" OC IN FULLY GROUTED CELLS UNO PER TYP DET ON S54# SERIES OF SHEETS.

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David A. Krell - Engineer

MO# PE-2021014172

07/12/2023

David A. Krell

NUMBER

PE-2021014172

PROFESSIONAL ENGINEER

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ENLARGED FOUNDATION & ROOF FRAMING PLANS

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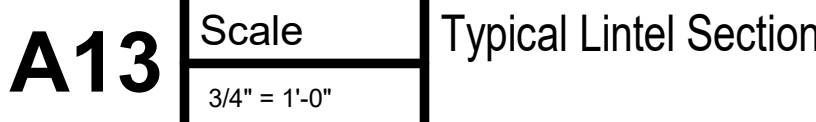
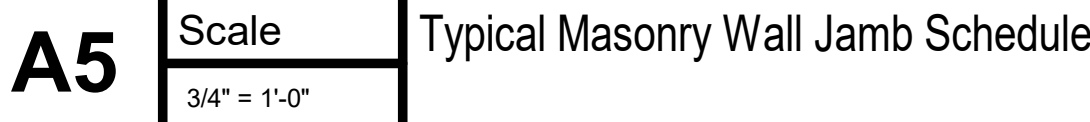
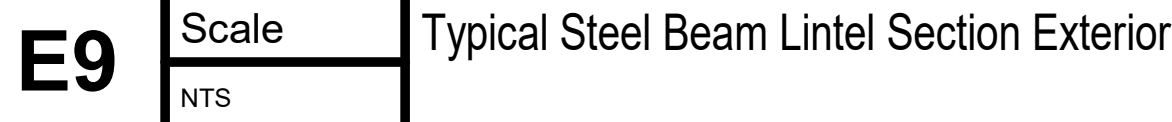
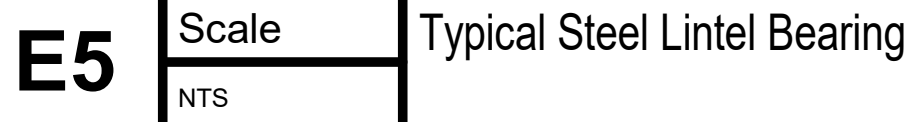
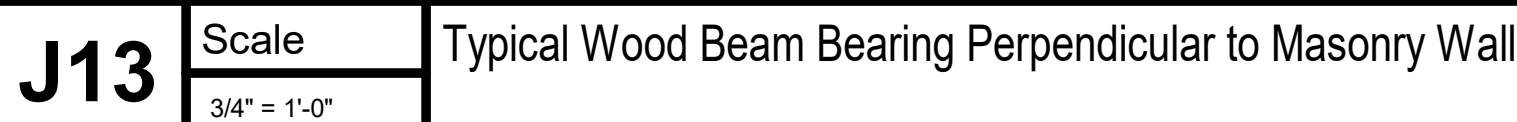




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03 30 00.A06	REINFORCING BARS
04 20 00.A11	MASONRY BOND BEAM
04 20 00.A14	STRUCTURAL CLAY MASONRY UNITS
05 12 00.A02	W SHAPE
05 12 00.A04	ANGLE
05 12 00.A05	PLATE AND BAR
05 12 00.A06	HSS SHAPE
05 50 00.A21	LOOSE BEARING/LEVELING PLATES
06 10 00.001	DIMENSION LUMBER FRAMING
06 16 00.A06	ROOF SHEATHING





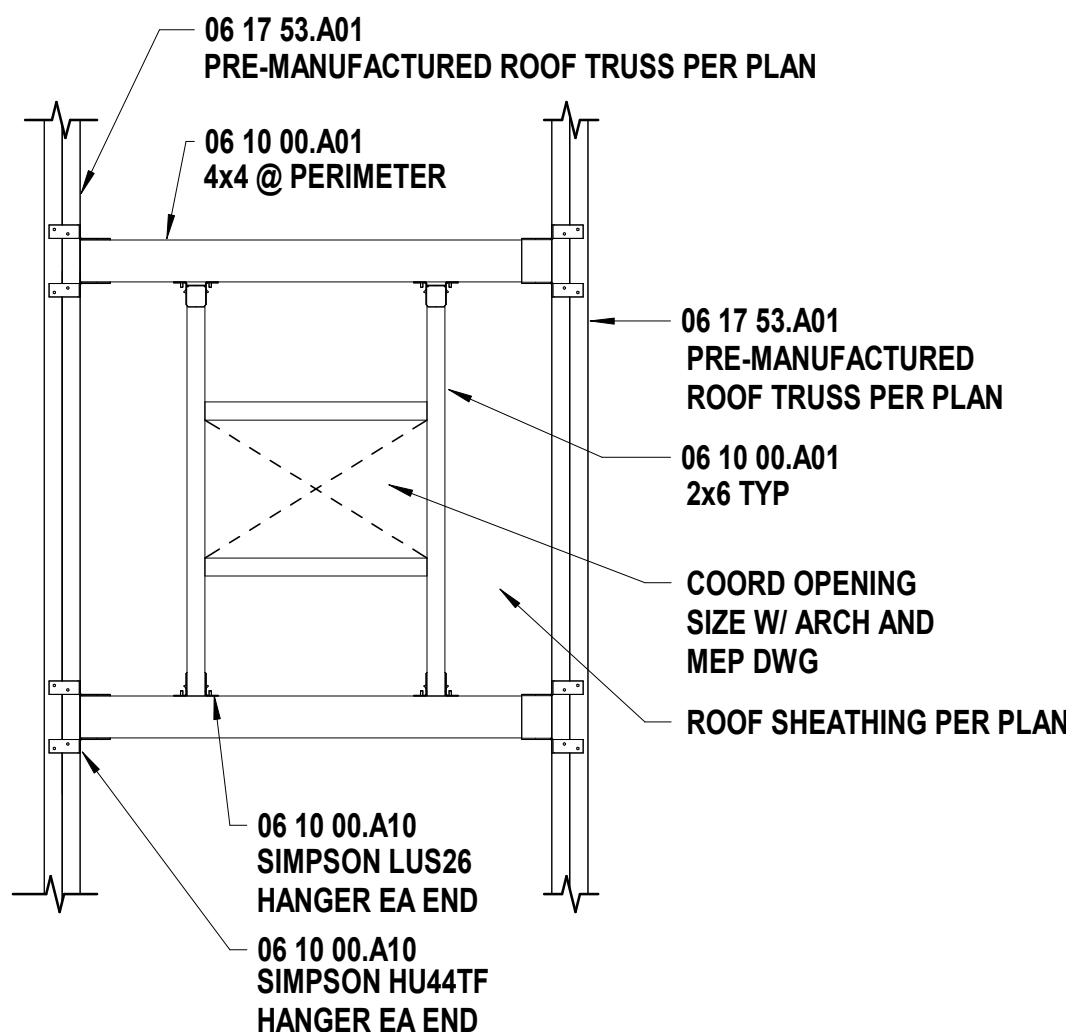
04 20 00.A14	STRUCTURAL CLAY MASONRY UNITS
06 10 00.A01	DIMENSION LUMBER FRAMING
06 10 00.A10	METAL FRAMING ANCHORS
06 17 53.A01	WOOD ROOF TRUSSES

MEMBER	CONNECTION TO	SIMPSON CONNECTOR
4x4 POST	MASONRY WALL	ABU46Z W/ HIT-HY 270 HAS-E 55 5/8"x8" A.R.
(2) 2x8	4x4 POST	ECCLR 3 1/4-4 ECCLL 3 1/4-4
(2) 1 3/4 x 11 1/4 LVL	CR3.4 COLUMN	CCQ44-SDS2.5**
	(2) 2x8	HWP 3.5 H = 11.25
2x6 JOIST	(2) 1 3/4 x 11 1/4 LVL	H2.5A
2x4 BRACE	(2) 1 3/4 x 11 1/4 LVL	A23
	(2) 2x6 JOIST	A23
WOOD BLOCKING	(2) 2x8	A21 LSTA9
	EMBED PLATES*	(2) A23** LSTA18
OUTRIGGER	MASONRY EMBED PLATE (2) 2x8	(2) A23** (2) A23

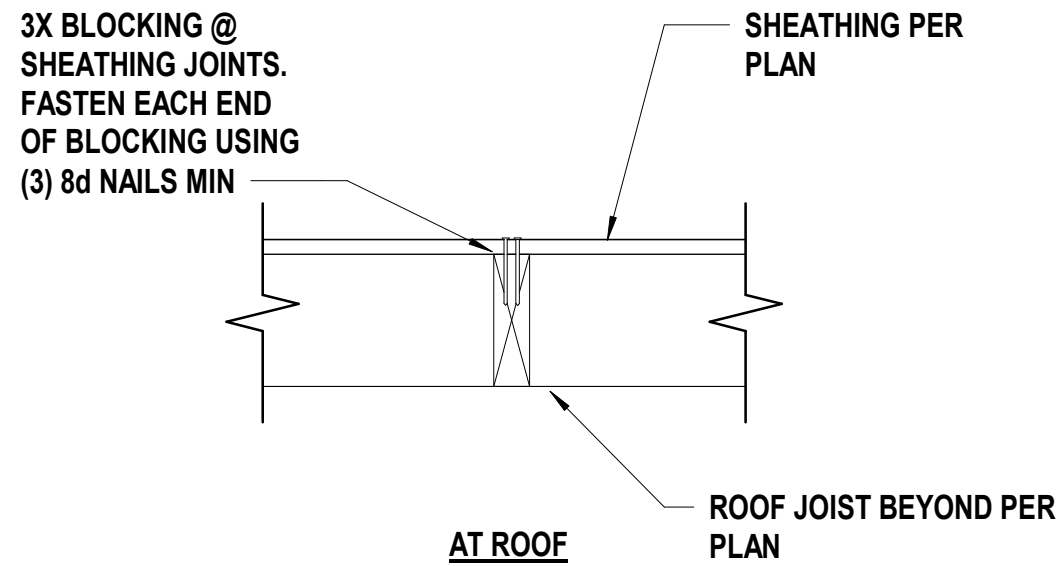
**NOTES:**

- 1. ALL HANGERS MUST BE ATTACHED WITH ALL MANUFACTURER'S SPECIFIED ATTACHMENTS.**
- 2. ALL HANGERS SHALL HAVE ADEQUATE CORROSION RESISTANCE IF EXTERIOR EXPOSED CONDITION.**
- 3. CONTRACTOR MAY PROVIDE SHIMS AS REQ'D AT BEAMS TO FIT CONNECTIONS.**
- 4. "(3) 10d TOENAILS EACH SIDE TO ROOF JOISTS.**
- 5. "3/16" WELD TO EMBED PLATE OR HSS COLUMN.**

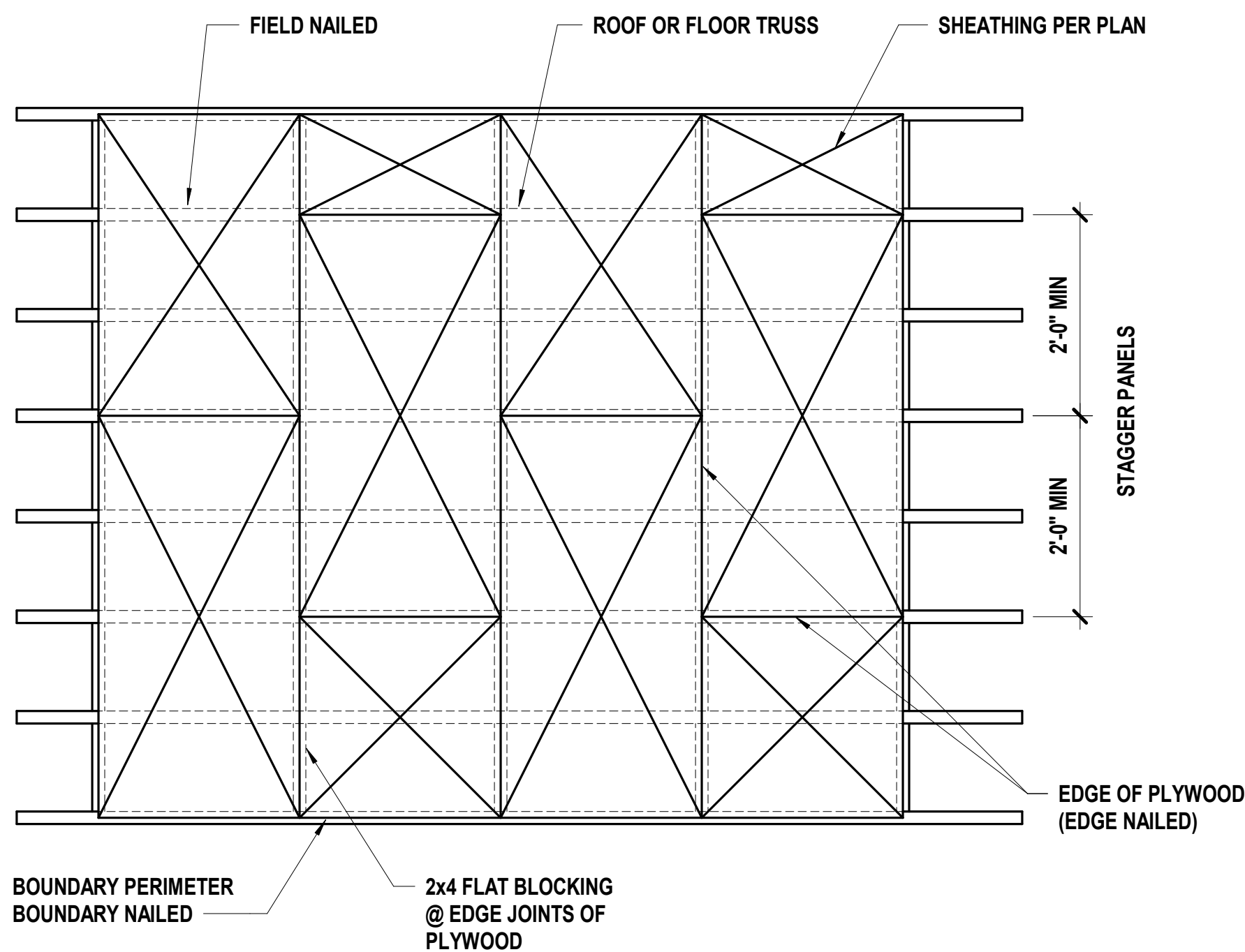
<b>J13</b>	Scale	Wood Connector Schedule
	3/4" = 1'-0"	



<b>E5</b>	Scale	Wood Typical Roof Opening
	NTS	



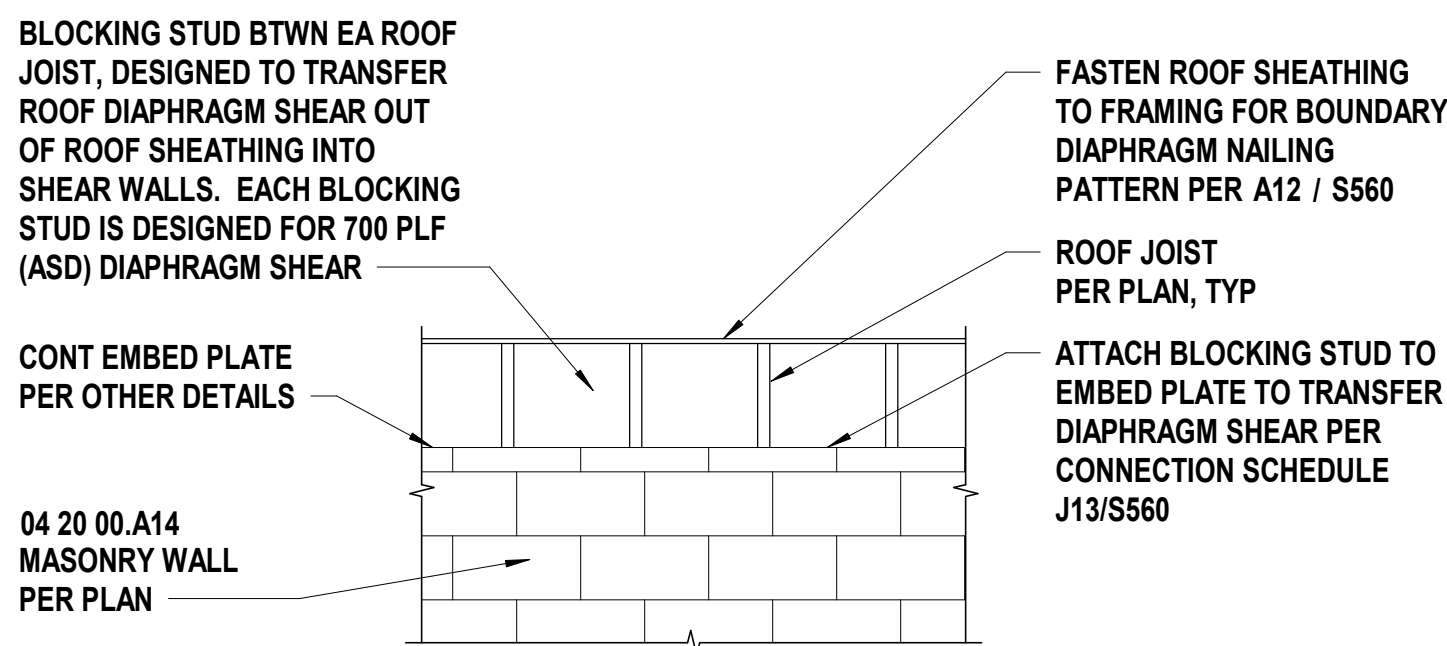
<b>E9</b>	Scale	Wood Blocking Detail
	1 1/2" = 1'-0"	



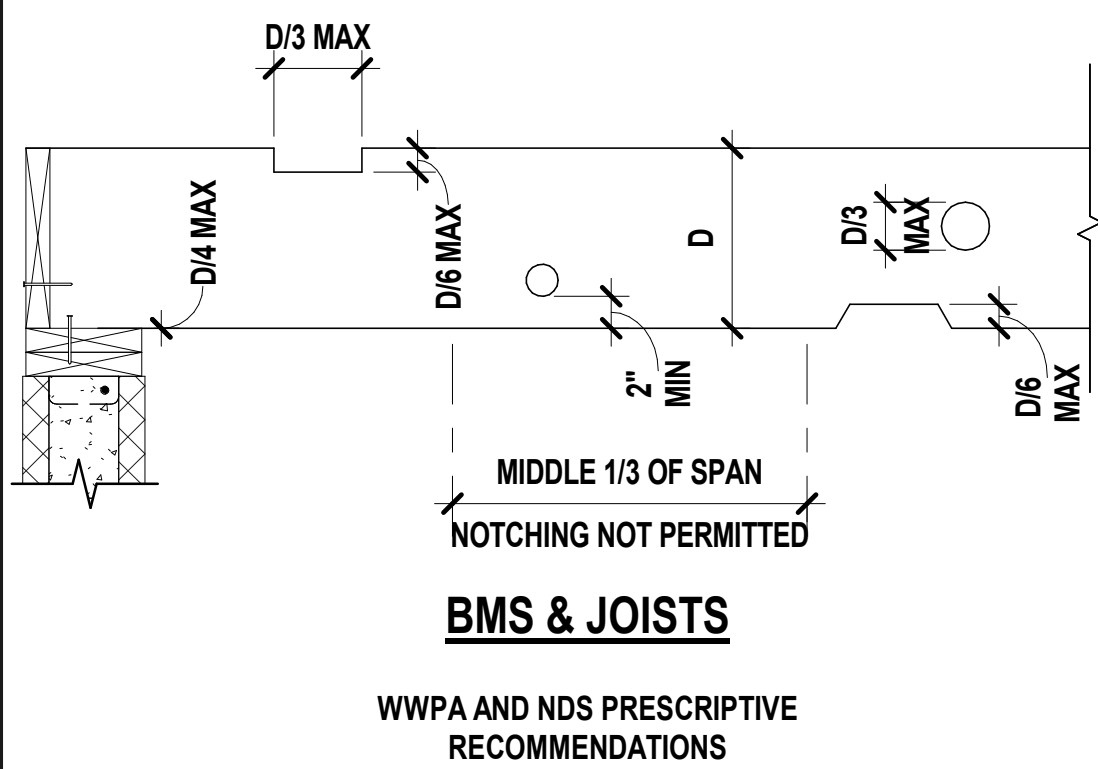
**NOTES:**

1. RUN LONG DIMENSION OF PLYWOOD PANELS PERPENDICULAR TO JOIST OR RAFTER.
2. STAGGER END JOINTS 2'-0" MIN AS SHOWN.
3. NAILING SIZE AND SPACING AS NOTED ON PLANS AND S001.
4. NAILS SHALL HAVE A MIN 3/8" EDGE DISTANCE.
5. ANY OPENINGS SHALL BE FULLY BLOCKED AND NAILED TO MATCH BOUNDARY CONDITION.

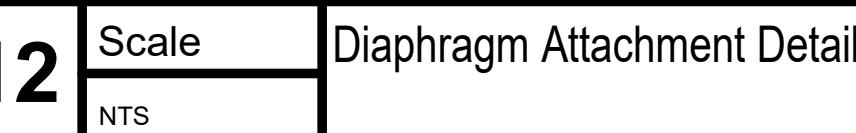
ROOF DIAPHRAGM ATTACHMENT IS DESIGNED FOR A SERVICE LEVEL SHEAR LOAD OF **700 LB/FT**.



<b>A5</b>	Scale	Roof Diaphragm Chord Detail
	1/2" = 1'-0"	



<b>A9</b>	Scale	Notches and Penetrations in Solid Sawn Joists
	NTS	



<b>A12</b>	Scale	Diaphragm Attachment Detail
	NTS	

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25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

CONSTRUCTION DOCUMENTS

## LHS Baseball & Softball Upgrades

Liberty Public Schools 53

**200 Blue Jay Drive**

**200 Blue Jay Drive**

## REVISIONS

#	Description	Date
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07/12/2023  
David A. Krell - Engineer  
MO# PE-2021014172

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**JOB NO: 23023.00**

DRAWN BY: JCH

CHECKED BY: LJP  
DATE: 07.12.2023

# S560











