

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

Professional Registration
 Missouri Engineering 2005002188-D
 Surveying 200500019-D
 Kansas Engineering E-1695
 Surveying LS-218
 Oklahoma Engineering 6254
 Nebraska Engineering CA2821

Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

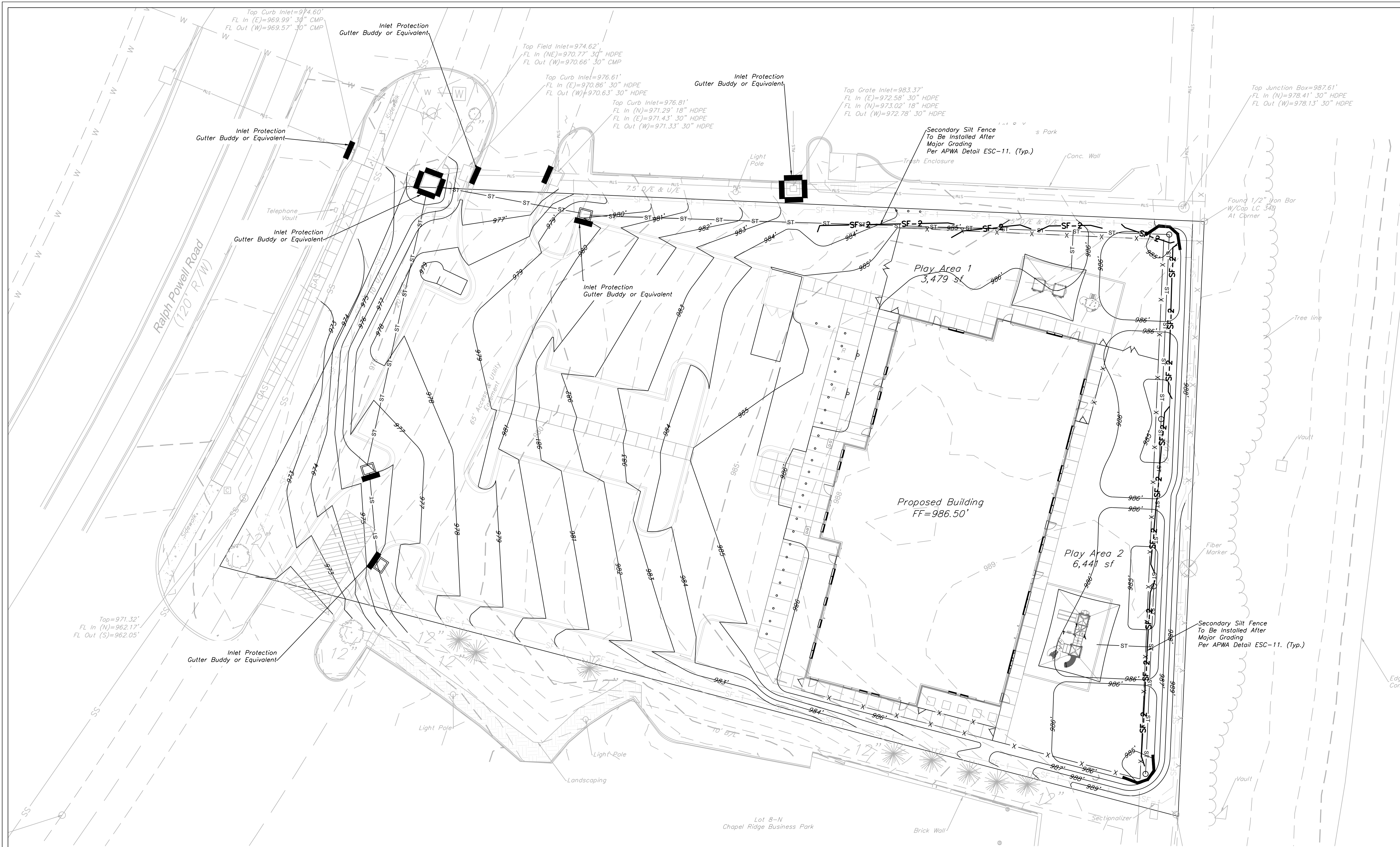
Project: SCHOOL LOT 8-J, CHAPEL RIDGE
 Issue Date: February 9, 2019

ESC PHASE 1
 Construction Plans for:
GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226

REVISIONS

2/8/19	Bid Set
2/12/19	REV
5/7/19	REV
5/30/19	REV



ESC PHASE 2
SCALE: 1" = 20'

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE — SF-1 — SF-1

PHASE 2 SILT FENCE — SF-2 — SF-2

INLET PROTECTION —

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NOTES: The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

EROSION CONTROL DESCRIPTION:

- 1.) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS
- 2.) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

- 1.) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

- A.) INSTALLATION
 - 1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
 - 2.) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
 - 3.) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 34" 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
 - 4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
 - 5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
 - 6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE
 - 7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY
- B.) TROUBLESHOOTING
 - 1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
 - INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
 - INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES
 - SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE THICKNESS OR ADD GEOTEXTILE FABRIC
 - PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY
- C.) INSPECTION AND MAINTENANCE
 - 1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
 - 2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
 - 3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
 - 4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
 - 5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:

INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDDED WITH WHEAT/TYRFE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 80% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDING AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.
CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
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Missouri
Engineering 200502088-D
Surveying 200500819-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: ESC PHASE 2
LOT 8-J & CHAPEL RIDGE
Issue Date: February 9, 2019

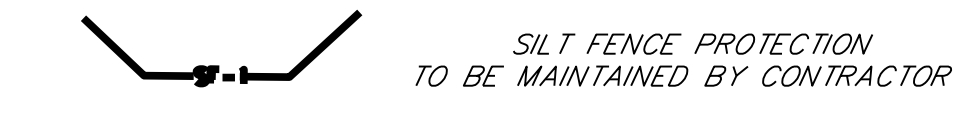
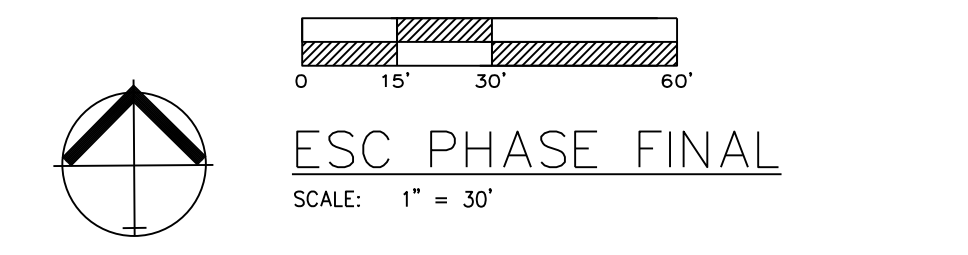
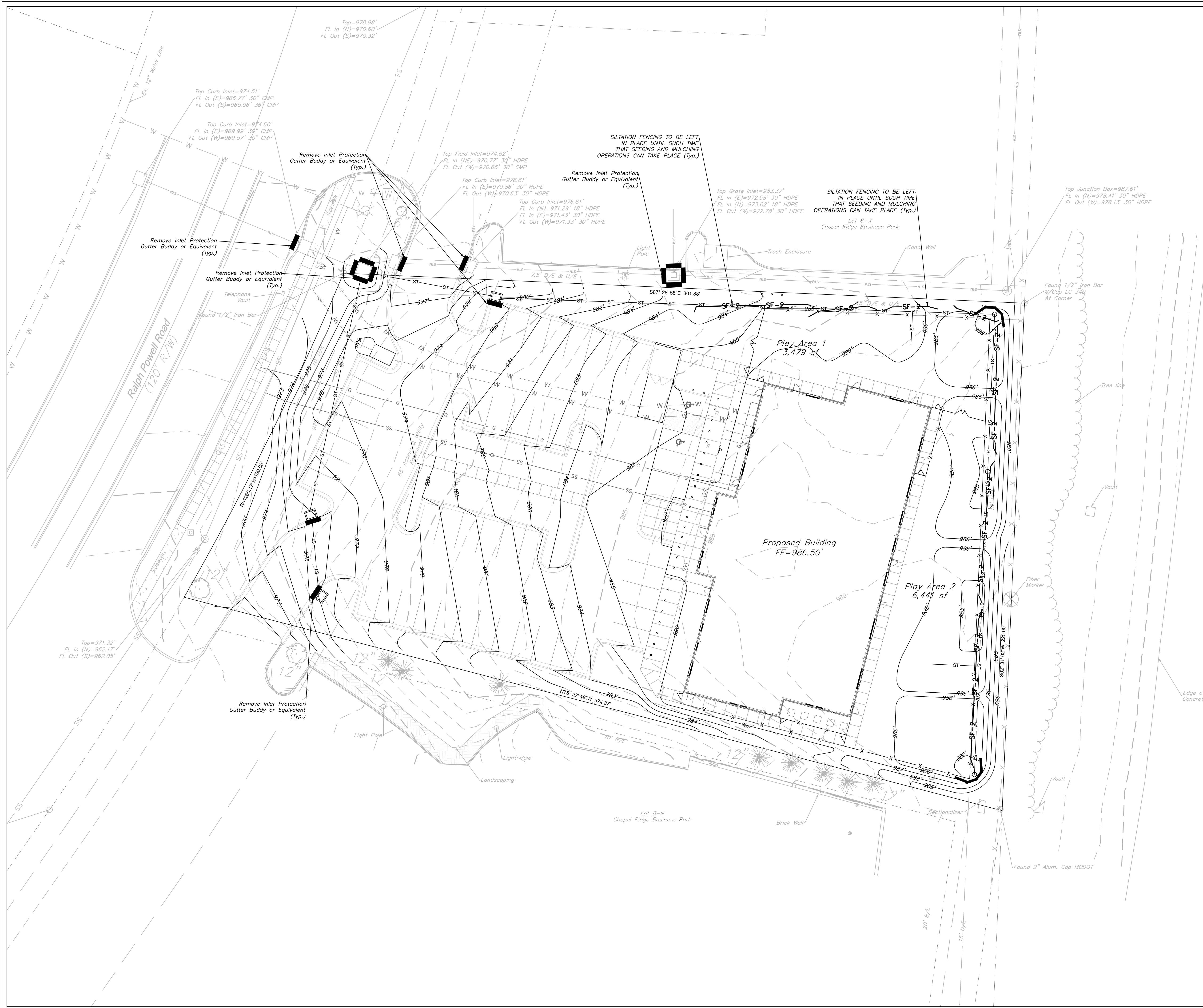
Lot 8-J, Chapel Ridge Business Park
Section 17, Township 48 North, Range 31 West
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2/8/19 Bid Set	
REV 2/12/19	
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LEGEND

PHASE 1 SILT FENCE — SF-1 — SF-1 —

PHASE 2 SILT FENCE — SF-2 — SF-2 —

INLET PROTECTION —————

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NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix.

Seed and Fertilizer Rate:

Mix I - Rye Grass / Blue Grass -----
100 lbs. per Acre

Mix II - Tall Fescue / Blue Grass ----- 195
lbs. per Acre

----- 2000
lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer

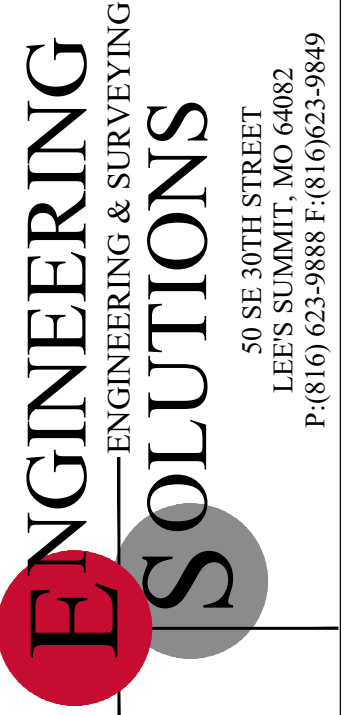
----- 800
to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:

Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided.

ONCE SITE IS 90% VEGETATED ALL ESC DEVICES SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE RESTORED



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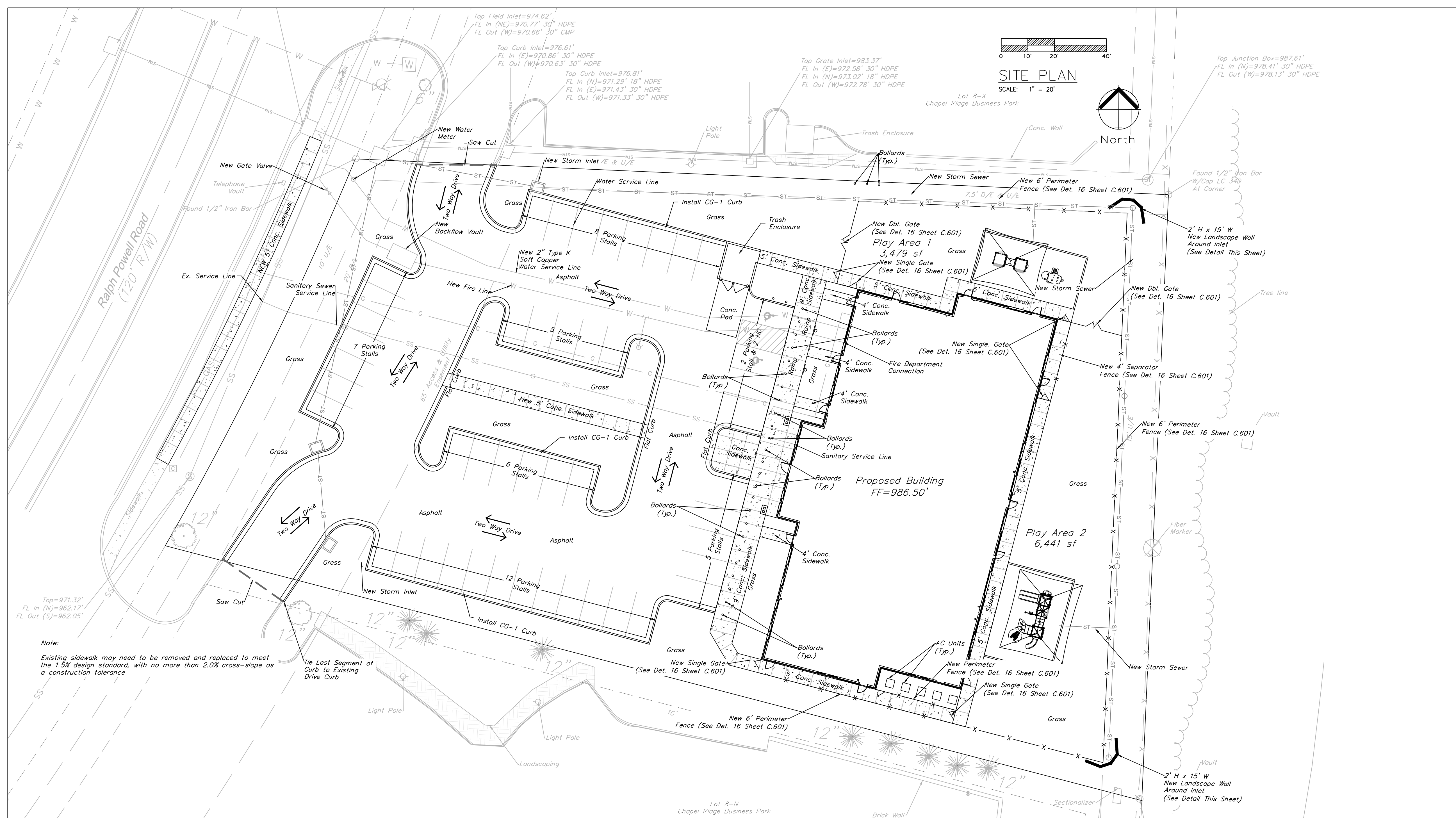
Project: ESC PHASE FINAL
LOT 8-J CHAPEL RIDGE
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ESC PHASE FINAL
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REV 2/12/19	
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LAND DESCRIPTION
CHAPEL RIDGE BUSINESS PARK LOT 8-J

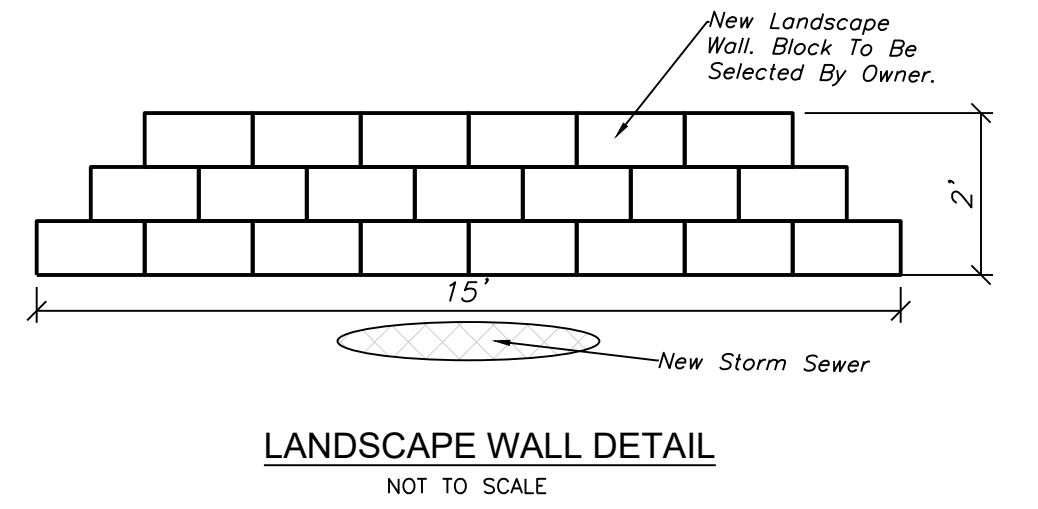
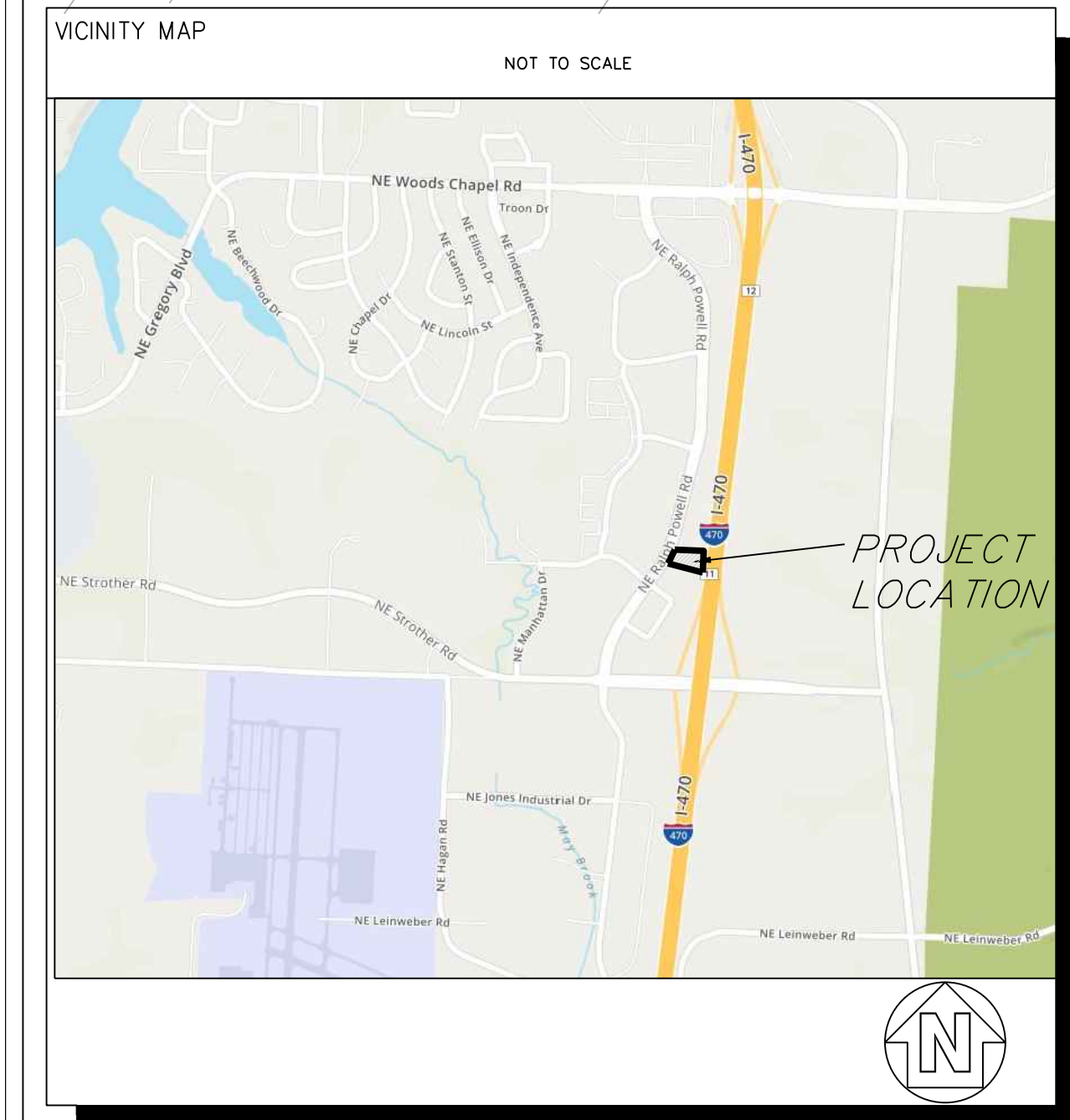
UTILITY STATEMENT
THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

SYMBOL LEGEND

SYMBOL	DESCRIPTION:
[Symbol]	HANDICAP ACCESSIBLE PARKING SPACE.
[Symbol]	HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 6/C5.1.
[Symbol]	LIGHT DUTY ASPHALT PAVEMENT. SEE DETAIL 6/C5.1.
[Symbol]	CONCRETE PAVEMENT. SEE DETAIL 6/C5.1.
[Symbol]	RIGHT-OF-WAY PAVEMENT.
[Symbol]	SOD AREA
[Symbol]	SEED AREA
[Symbol]	PARKING PAINT STRIPING.
[Symbol]	HANDICAP RAMP, MAXIMUM 8% SLOPE. RE:10/C5.1
[Symbol]	6" CONCRETE CURB & WALK, RE: 20/C5.1
[Symbol]	2" CURB & GUTTER, RE: 12/C5.1
[Symbol]	6" CONCRETE CURB, RE: 04/C5.1
[Symbol]	HANDICAP ACCESSIBLE PARKING SYMBOL, RE:17/C5.1
[Symbol]	HANDICAP PARKING SIGN, RE:13/C5.1 AND 08/C5.1.
[Symbol]	MASONRY TRASH ENCLOSURE. SEE DETAIL 08/C5.2.
[Symbol]	IDENTIFICATION SIGN, RE: 05/C5.2.
[Symbol]	6'-0" WIDE 4" THICK CONCRETE SIDEWALK, RE:11/C5.1.
[Symbol]	DOUBLE SWINGING GATE W/ 3'-0" GATES.
[Symbol]	SINGLE 4'-0" SWINGING GATE WITH PANIC DEVICE, KEYPAD ENTRANCE, AND ALARM. SINGLE SWING GATE WITH PANIC
[Symbol]	BAR, NO ALARM
[Symbol]	BIKE RACK (PER LOCAL AHJ)
[Symbol]	6'-0" TALL AMERISTAR STEEL FENCE, RE: 16/C5.2
[Symbol]	4'-0" TALL AMERISTAR STEEL FENCE, RE: 16/C5.2
[Symbol]	BOLLARDS 4FT, RE: 11/C5.2
[Symbol]	BOLLARDS, RE: 10/C5.2
[Symbol]	MOCK UP WALL LOCATION, REMOVE AFTER OWNER & ARCHITECT APPROVAL. RE: COVER SHEET FOR DETAILS.

GENERAL SITE NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AS APPLICABLE.
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF CURBS, OR OUTSIDE FACE OF BRICK, BLOCK OR BUILDING FASCIA UNLESS OTHERWISE INDICATED.
- THE BUILDING AND PARKING FACILITIES ARE PARALLEL WITH OR PERPENDICULAR TO THE EXISTING BUILDING.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY.
- CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM PROPOSED FEATURES TO EXISTING FEATURES AS NECESSARY.
- ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AFTER FINISH GRADING IS COMPLETED UNLESS OTHERWISE NOTED. ALL NEW SEEDED OR SODDED AREAS SHALL HAVE A TOPSOIL LAYER OF 4" MINIMUM. TOP OF TOPSOIL LAYER SHALL BE PLACED 1" BELOW TOPS OF CURBS, WALKS, OR PAVEMENT ELEVATIONS WHERE TOPSOIL ADJUTS THOSE AREAS.
- CONTRACTOR SHALL SUPPLY AND PLACE STRAW MULCH WHEREVER GRASS SEED HAS BEEN PLACED.
- CONTRACTOR SHALL SEAL THE EDGE OF EXISTING ASPHALT PAVEMENT WITH TACK COAT IN ACCORDANCE WITH THE STATES DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS WHERE NEW ASPHALT JOINS EXISTING ASPHALT.
- CONTRACTOR SHALL REPAIR, RESURFACE, RECONSTRUCT OR REFURBISH ANY AREAS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, HIS SUBCONTRACTORS OR SUPPLIERS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COMPLETELY FILL ALL TRENCHES WITHIN 5 FEET OF PLAYGROUND BOXES. PAVEMENT EDGES WITH GRANULAR BACKFILL. REFER TO GEOTECHNICAL REPORT FOR TYPE OF FILL TO ACHIEVE DESIRED COMPACTION, EG: 2A OR EQUIVALENT.
- ALL PAINT STRIPING SHALL BE 4" TRAFFIC PAINT IN ACCORDANCE WITH THE STATES DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SHALL BE YELLOW.
- CONTRACTOR TO CONFIRM WITH LOCAL CODES AND BUILDING INSPECTOR FOR SPECIFIC DISABLED PARKING SIZES, STRIPPING AND SIGNAGE REQUIREMENTS.
- PRIMARY COLORED PLAYGROUND EQUIPMENT WILL BE INSTALLED UNLESS THE LOCAL JURISDICTION, HOA OR COVENANTS AND RESTRICTIONS REQUIRE EARTHTONE.
- GATES TO BE HARD WIRED, CONNECTED TO SEPARATE ALARM SYSTEM. CHIME BACK AT OFFICE WHEN OPENED. PUSH BARS TO HAVE MINIMUM 12" DEPTH 16 GAUGE EXPANDED METAL BACKING ALONG WIDTH OF GATE WITH LOCKABLE HANDLES ON EXTERIOR.
- G.C. SHALL INSTALL GSI'S STANDARD "COMING SOON" TEMPORARY SIGN PER AHJ STANDARDS. RE:10/C5.2
- G.C. TO PROVIDE QTY. 3 MIN. SELF CLOSING HINGE SETS TO ALL EXTERIOR GATES, DUE TO 4FT WIDTH AND TO PREVENT POSSIBLE SAGGING AND SPECIFICATIONS.
- G.C. TO INSTALL & LOCATE CLEAN OUTS PER PLUMBING PLANS AND SPECIFICATIONS.

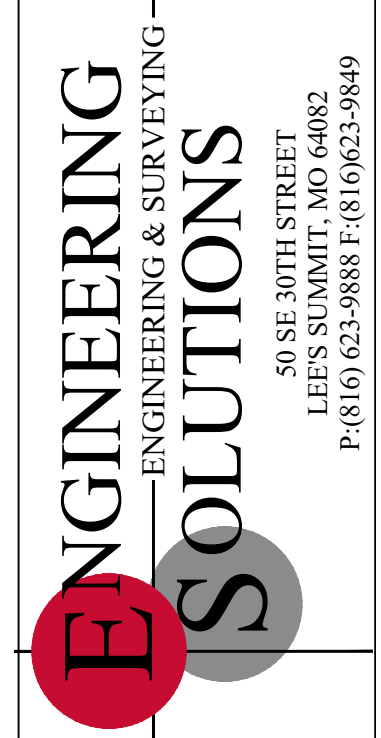


EQUIPMENT NOTE

PLAYGROUND EQUIPMENT IS DESIGNED WITH THE PRIMARY COLORS BLUE, RED, GREEN AND YELLOW. DEVELOPER/DESIGN PROFESSIONAL TO CONFIRM THAT THERE ARE NO RESTRICTIONS THAT WILL NOT PERMIT THE INSTALLATION OF EQUIPMENT WITH THESE COLORS. DEVELOPER/DESIGN PROFESSIONAL TO VERIFY WITH ANY GOVERNING BODY NOT LIMITED TO PLANNING AND ZONING BOARDS, ARCHITECTURAL REVIEW BOARDS, OR HOME OWNER'S ASSOCIATIONS AS WELL AS WITH AND NOT LIMITED TO THE REVIEW OF ANY COVENANTS AND RESTRICTIONS OR DESIGN GUIDELINES. GODDARD SYSTEMS, INC. (GSI) CAN PROVIDE COLOR ELEVATIONS OF THE EQUIPMENT IF NECESSARY. PLEASE CONTACT YOUR GSI REPRESENTATIVE IF THE PRIMARY COLORS ARE NOT PERMITTED.

PROPOSED PARKING SUMMARY

PROPOSED PARKING	QUANTITY
STANDARD PARKING (9'x19')	45
HANDICAP PARKING PROVIDED (INCLUDES 1 VAN ACCESSIBLE)	2
TOTAL =	47
REQUIRED PARKING	
1 SPACE REQUIRED PER CLASSROOM	12
1 SPACE REQUIRED PER STAFF MEMBER	13
TOTAL =	25



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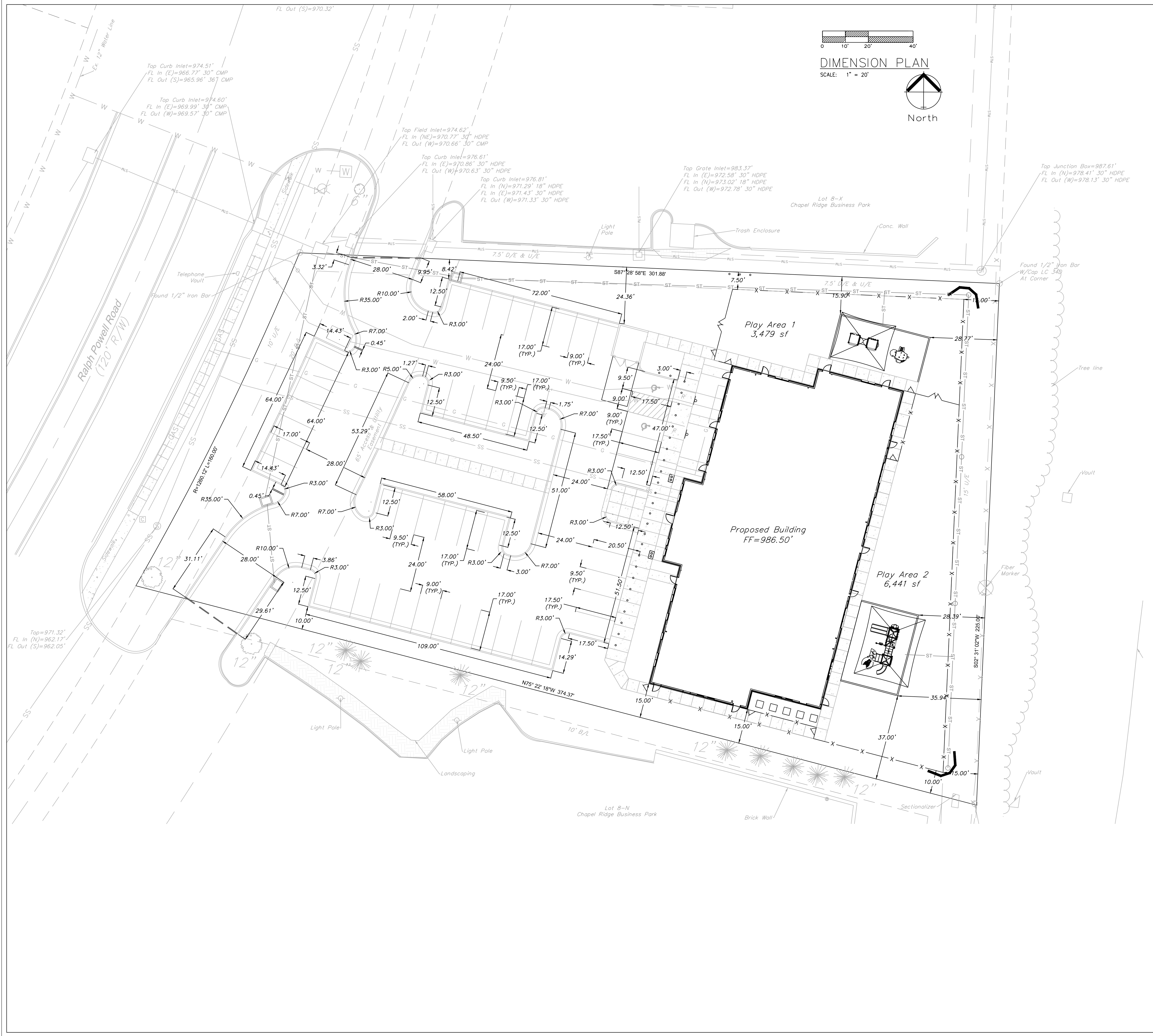
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SITE PLAN
Construction Plans for:
GODDARD SCHOOL
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS

NO.	DATE	DESCRIPTION
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DIMENSION PLAN

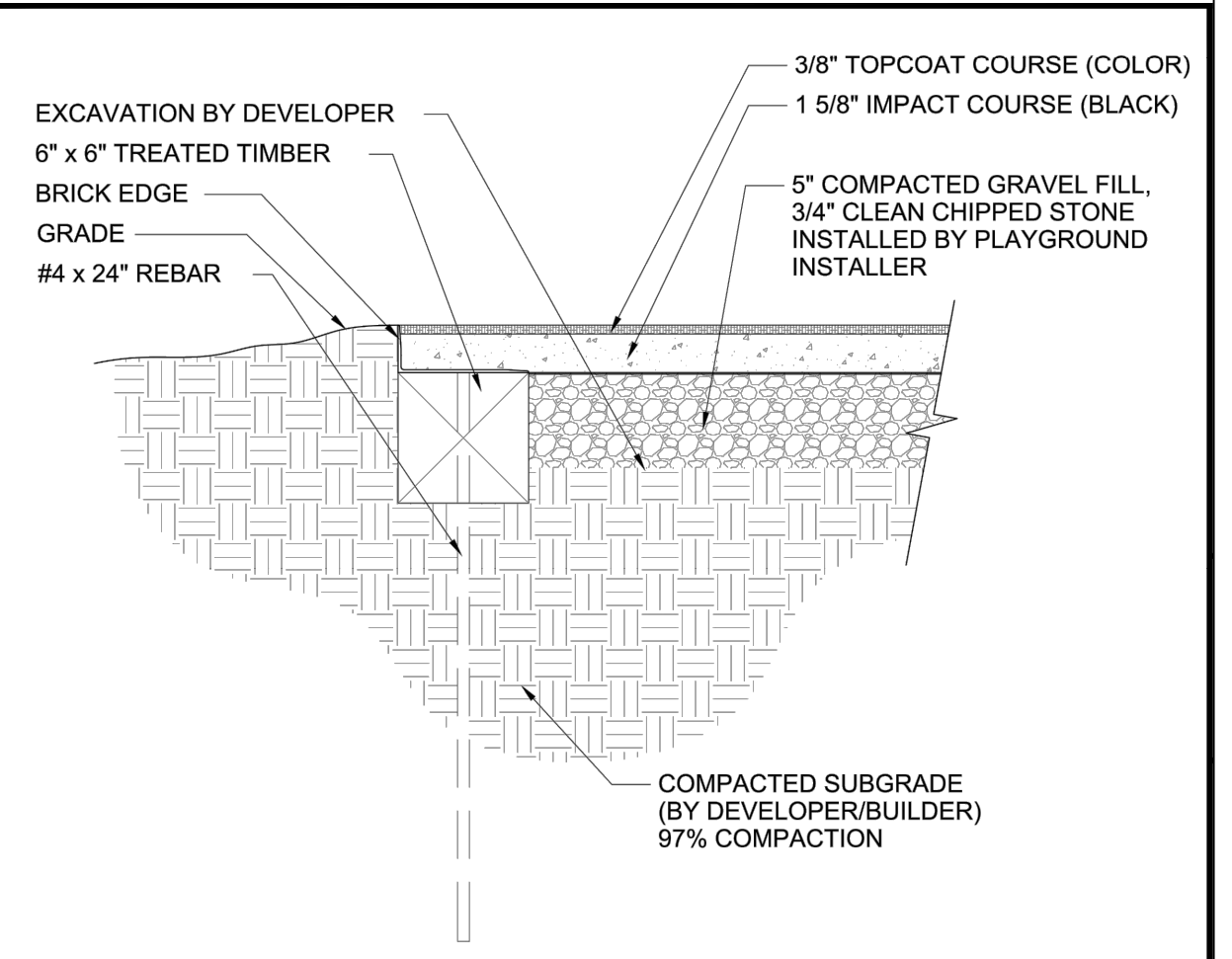
SCALE: 1" = 20'



- DEVELOPER / GENERAL CONTRACTOR'S PLAYGROUND RESPONSIBILITIES
1. PLAYGROUND STRUCTURE AND SHADE STRUCTURE APPROVALS OR PERMITS IF REQUIRED. APPROVALS AND PERMITTING MAY BE REQUIRED FOR COLOR SCHEME, HEIGHT, MANUFACTURER DESIGN METHODS, ETC.
 2. UTILITIES CANNOT BE LOCATED UNDER OR OVER PLAYGROUND BOXES.
 3. ELECTRIC AND WATER ARE NEEDED ON SITE, FOR THE PLAYGROUND INSTALLERS USE. IF NOT, OTHER PRIOR ARRANGEMENTS SHALL BE MADE.
 4. SOILS WITHIN THE PLAYGROUND BOX DIMENSIONS SHOULD BE SUITABLE FOR SLAB AT GRADE INSTALLATIONS. SOILS SHOULD NOT CONTAIN DEBRIS AND COMPACTED TO 97% IN ACCEPTED INCREMENTS CONTAINING SUITABLE SOIL.
 5. PROVIDE GODDARD SYSTEM INC.'S PROJECT MANAGER WITH A TIMELINE FOR PLAYGROUND INSTALLATION. ROUGH GRADE IS REQUIRED AND SIDEWALKS SHALL BE INSTALLED PRIOR TO PLAYGROUND INSTALLATION, SOD, FENCE AND PARKING LOT TOP COAT.
 6. LOCATE PLAYGROUND BOXES PER SITE PLAN, EXCAVATED 7" DEEP. PLAYGROUND BOXES CANNOT EXCEED A MAXIMUM 2% GRADE. (DTL. 2(C)3.1)
 7. SUB-GRADE BACKFILL MUST BE COMPACTED TO AT LEAST 97% AND SHOULD NOT CONTAIN MATERIALS SUCH AS LARGE ROCKS, SCRAP WOOD, CONCRETE SPOILS, ETC. PLAYGROUND INSTALLERS NEED TO DRILL ACCURATE HOLES FOR PLAYGROUND POLE INSTALLATION.
 8. INSTALL DRAINAGE SYSTEM TO EXCAVATED PLAYGROUND BOXES PER SITE PLAN. (DTL. 13(C)3.1)
 9. ENSURE ADEQUATE AREA FOR PLAYGROUND INSTALLERS. STAGING AREA NEEDED TO UNLOAD AND PRE-ASSEMBLE APPROX. 1,000 CUBIC FOOT SHIPMENT OF PLAYGROUND EQUIPMENT. HOLDING AREA NEEDED TO RECEIVE DELIVERY OF APPROXIMATELY 40-50 TONS OF CRUSHED STONE. PARKING AREA NEEDED FOR TWO TRUCKS AND ONE 30' TRAILER OF EXCAVATING EQUIPMENT.
 10. IN ORDER TO AVOID POSSIBLE DAMAGE, PARKING LOTS SHOULD NOT HAVE TOPCOAT APPLIED AND FENCING SHOULD NOT BE INSTALLED UNTIL PLAYGROUND IS COMPLETE. IF FENCING IS INSTALLED, LEAVE OUT NECESSARY SECTIONS TO PROVIDE ACCESS TO PLAYGROUND AREA.
 11. ONCE COMPACTED CRUSH STONE BASE, BORDER, AND EQUIPMENT ARE IN PLACE, THEY SHOULD NOT BE DRIVEN OR WALKED ON AND SHOULD NOT BE USED FOR STORAGE AREA.
 12. PLAYGROUND INSTALLATION DESCRIBED ABOVE SHOULD TAKE APPROXIMATELY ONE TO FIVE DAYS, DEPENDING ON SITE CONDITIONS, WEATHER, INSTALLER CREW SIZE, ETC.
 13. INSTALLATION OF POUR-IN-PLACE SURFACING USUALLY TAKES PLACE ONE TO TWO WEEKS AFTER PLAYGROUND IS INSTALLED, DEPENDING MAINLY ON WEATHER CONDITIONS.
 14. GENERALLY ONLY THREE OR FOUR PARKING SPACES ARE NEEDED FOR SURFACING INSTALLERS. (ONE OR TWO VEHICLES AND A MIXER STAGING AREA)
 15. TYPICALLY, TWO MEN MIX THE SURFACING PRODUCT IN THE PARKING LOT AND TRANSPORT BY WHEELBARROW TO PLAYGROUNDS WHERE IT IS POURED AND TROWELED. THEREFORE, NO SPECIAL ALLOWANCES ARE NECESSARY (FENCING CAN BE INSTALLED AND FINISH LANDSCAPING CAN BE COMPLETED)
 16. THIS IS USUALLY A TWO-DAY INSTALLATION, DEPENDING MAINLY ON WEATHER CONDITIONS. IMPACT COURSE APPLIED ON DAY ONE, AND TOPCOAT (COLOR) APPLIED ON DAY TWO.
 17. ONCE THE TOPCOAT APPLICATION IS COMPLETE, THE BINDING AGENTS WILL TAKE A MINIMUM 24 HOURS TO CURE. DURING THAT TIME THERE IS TO BE ABSOLUTELY NO WALKING ON, PLACING OBJECTS ON, OR ALLOWING ANY DUST TO ACCUMULATE ON THE TOPCOAT SURFACE.
 18. FINISH GRADING AND LANDSCAPING MUST BE THE SAME ELEVATION AT THE PLAYGROUND BORDERS.
 19. ENSURE THAT THE SITE IS SECURE AND THAT OTHER CONTRACTORS WILL NOT BE STORING, WORKING, WALKING, ETC. ON FINISHED PLAYGROUNDS, SURFACES OR BORDERS.

GENERAL NOTES:
 DEVELOPER/GENERAL CONTRACTOR SHOULD BE IN CONSTANT COMMUNICATION WITH GSI TO SCHEDULE DELIVERY AND INSTALLATION OF THE PLAYGROUND STRUCTURES. PLAYGROUND INSTALLERS TRAVEL LONG DISTANCES AND IT IS IMPERATIVE THE SITE IS PROPERLY PREPARED AS SPECIFIED TO AVOID COSTLY MOBILIZATION, SHIPPING AND STORAGE FEES.

GSI'S PLAYGROUND INSTALLERS TRAVEL GREAT DISTANCES, INCURRING EXPENSES FOR BOTH TRANSPORTATION AND LODGING. IN ADDITION THEY ARE REQUIRED TO RESERVE RENTAL MACHINERY. IF THEY ARE TURNED AWAY BECAUSE THE SITE IS NOT READY, A TRAVEL CHARGE WILL APPLY. THIS CHARGE COULD BE SIGNIFICANT (\$50.00 PER MAN-HOUR FOR A CREW OF FIVE, LODGING AT \$175 PER ROOM PER NIGHT, AND EQUIPMENT RENTAL DEPOSITS). THEREFORE, FOLLOWING ALL OF THE ABOVE GUIDELINES, ESPECIALLY WITH RESPECT TO DISCLOSING EXCESSIVELY ROCKY CONDITIONS, PROHIBITING THE USE OF LARGE ROCKS, CEMENT, ETC. IN BACKFILL MATERIALS, AND PROVIDING THE PROJECT MANAGER AN ACCURATE TIMELINE, WILL SAVE BOTH MONEY AND TIME.



04 POUR-IN-PLACE PLAY SURFACING

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



Professional Registration
 Missouri
 Engineering 200502186-D
 Surveying 20050819-D
 Kansas
 Engineering E-1685
 Surveying LS-218
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

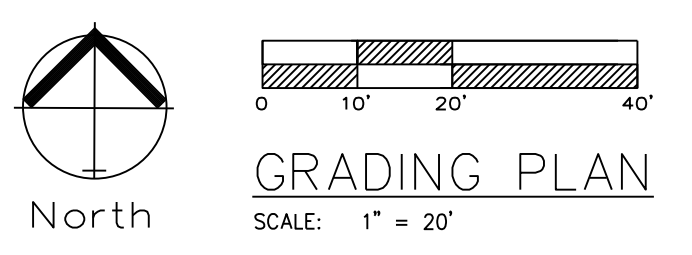
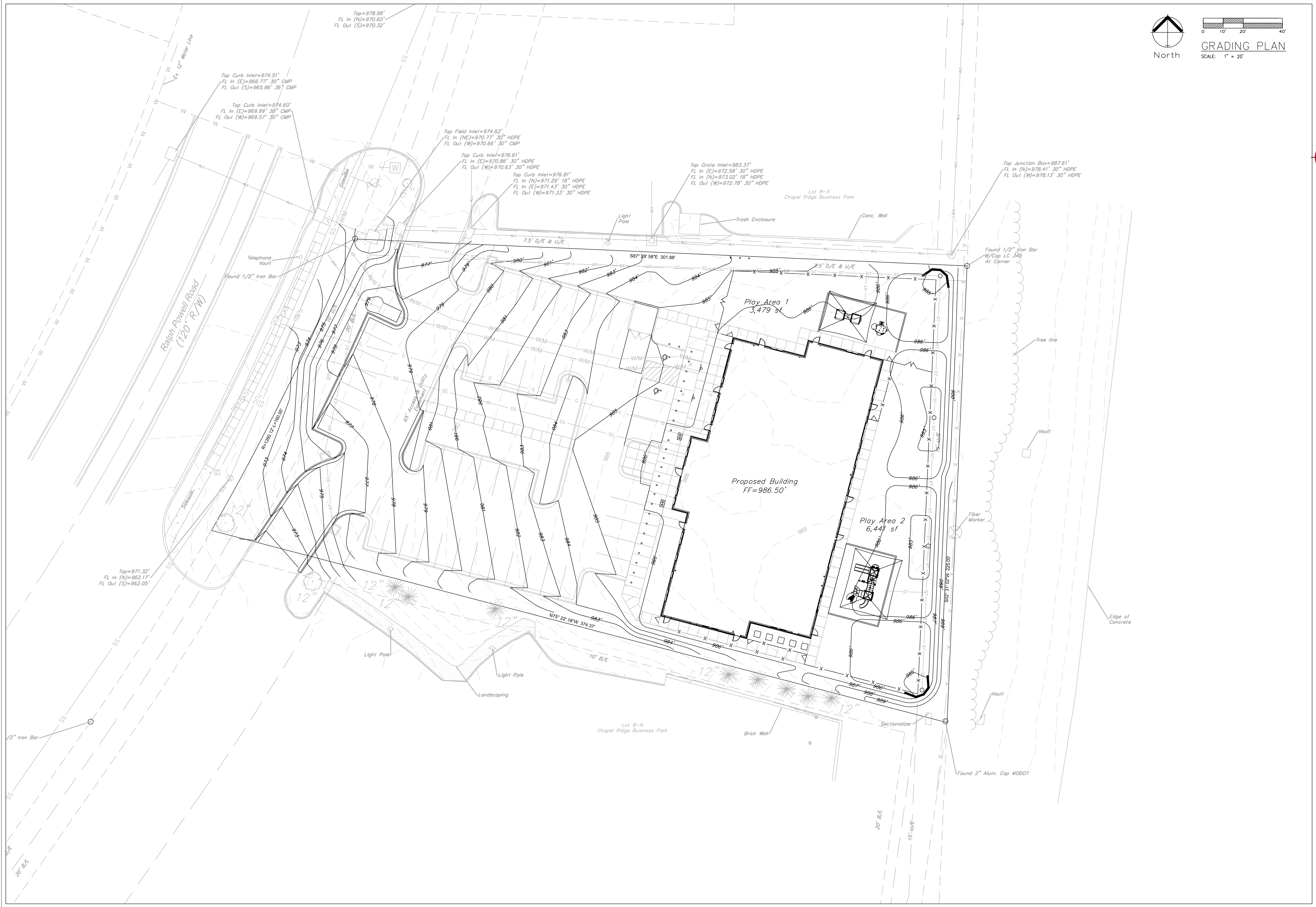
PROJECT SCHOOL
 LOT 8 & CHAPEL
 RIDGE
 Issue Date:
 February 9, 2019

DIMENSION PLAN
 Construction Plans for:
GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226

REVISIONS

2/8/19	Bid Set
REV 2/12/19	
REV 5/7/19	
REV 5/30/19	



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 Missouri
 Engineering 200502188-D
 Surveying 20050819-D
 Kansas
 Engineering E-1695
 Surveying LS-218
 Oklahoma
 Engineering 62-4
 Nebraska
 Engineering CA2821

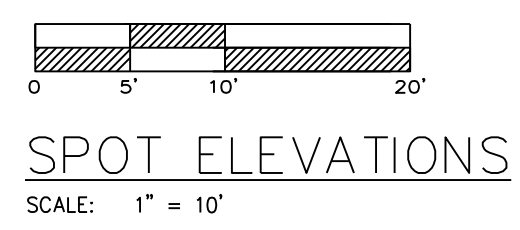
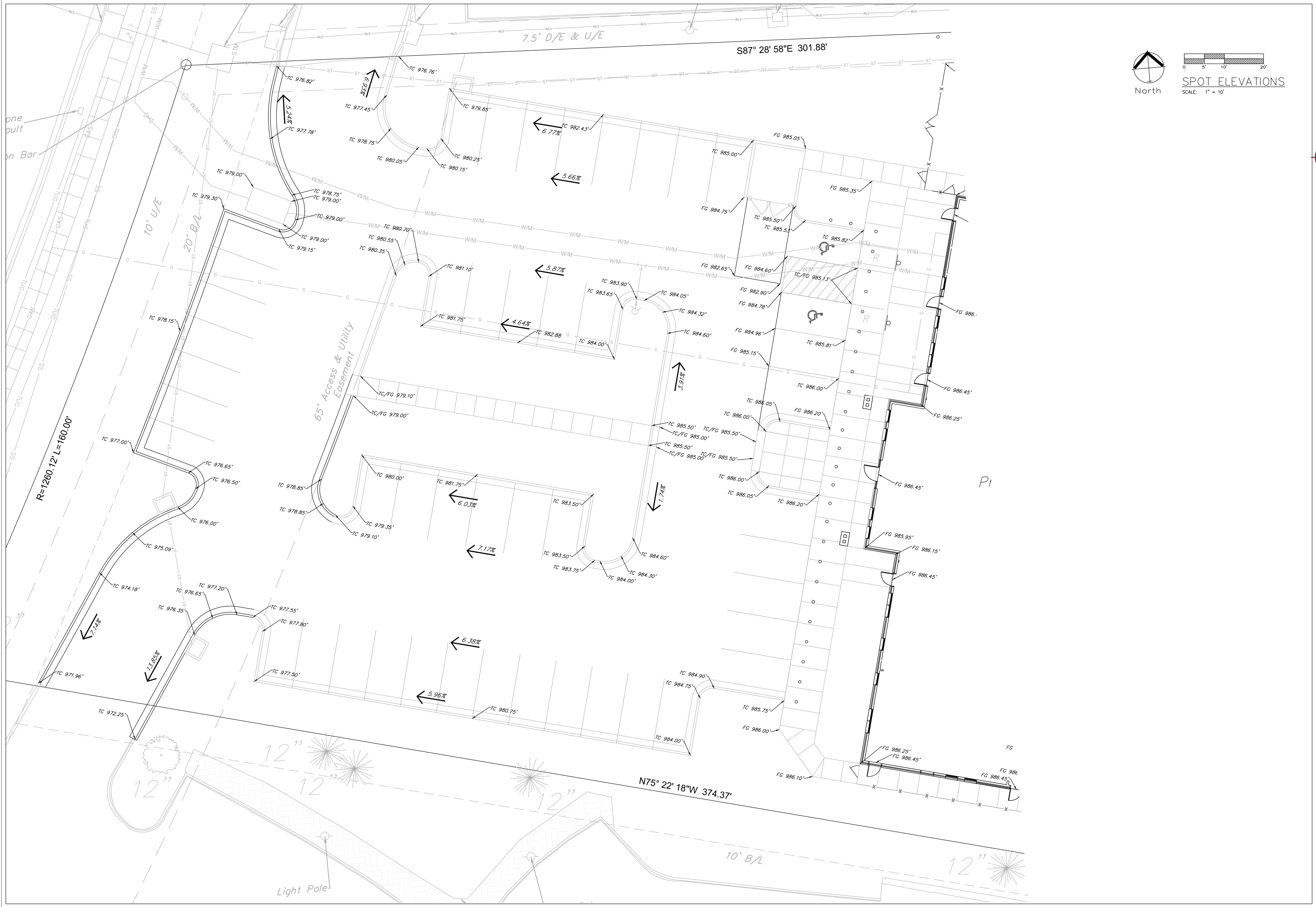
Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Project: GODDARD SCHOOL
 LOT 8 & CHAPEL
 RIDGE
 Issue Date: February 9, 2019

GRADING PLAN
 Construction Plans for:
 GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226

REVISIONS	
2/8/19	Bid Set
REV 2/12/19	
REV 5/7/19	
REV 5/30/19	



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 Missouri
 Engineering 200502188-D
 Surveying 20050819-D
 Kansas
 Engineering E-1695
 Surveying LS-219
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

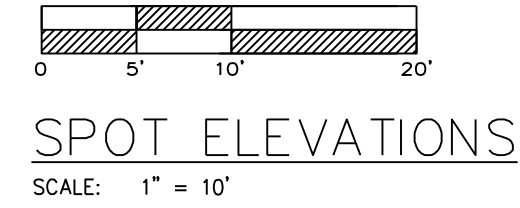
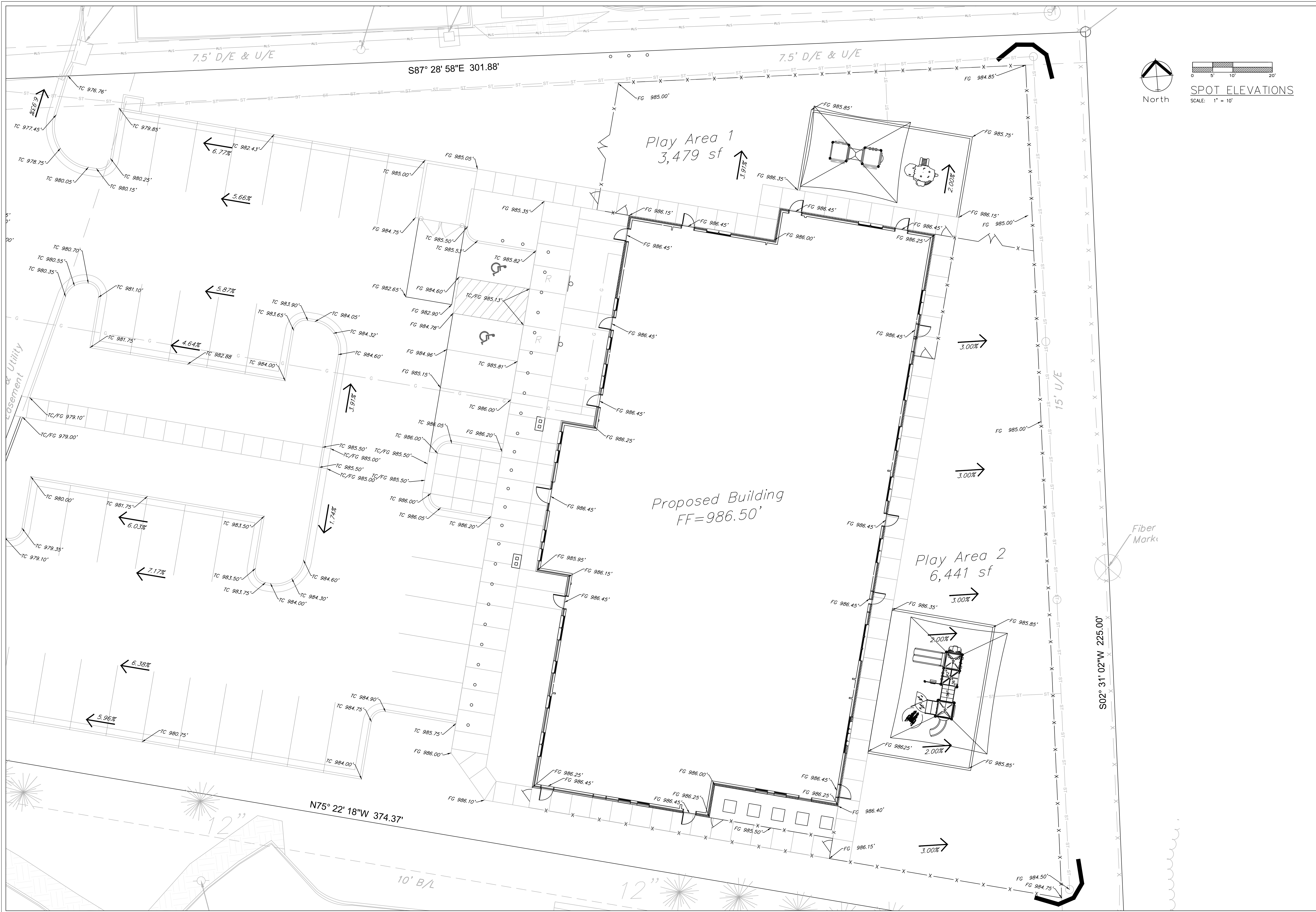
Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Project: GODDARD SCHOOL
 LOT 8-J, CHAPEL
 RIDGE
 Issue Date:
 February 9, 2019

SPOT ELEVATIONS
 Construction Plans for:
GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226

REVISIONS
2/8/19 Bid Set
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REV 5/7/19
REV 5/30/19



Professional Registration
 Missouri
 Engineering 200502188-D
 Surveying 200508319-D
 Kansas
 Engineering E-1695
 Surveying LS-219
 Oklahoma
 Engineering 6254
 Nebraska
 Engineering CA2821

Project: GODDARD SCHOOL
 LOT 8-J, CHAPEL RIDGE
 Issue Date: February 9, 2019

Project: GODDARD SCHOOL
 LOT 8-J, CHAPEL RIDGE
 Issue Date: February 9, 2019

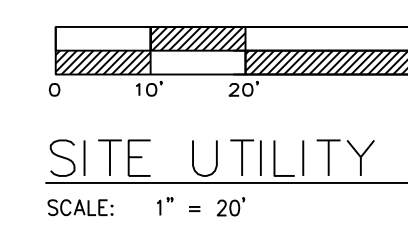
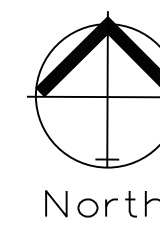
SPOT ELEVATIONS
 Construction Plans for:
GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
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2/8/19 Bid Set
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REV 5/7/19
REV 5/30/19

NOTE:

NIGHT WORK WILL BE REQUIRED, WITH A TOTAL SHUT-DOWN OF NO MORE THAN 8 HOURS. ALL SHUT-DOWNS OF THE WATER MAIN MUST FOLLOW THE CITY OF LEE'S SUMMIT STANDARDS IN TERMS OF CONTRACTOR NOTIFICATION OF AFFECTED PROPERTY OWNERS, MINIMUM NOTICE OF 48 HOURS, AND COORDINATION WITH THE CITY INSPECTOR FOR THE ACTUAL SHUT-DOWN.



SITE UTILITY PLAN
SCALE: 1" = 20'

BENCHMARK

EXISTING BENCHMARK NAME
WRITTEN DESCRIPTION OF BENCHMARK AND LOCATION

BENCHMARK ELEVATION = 000.00

NEW BENCHMARK NAME
WRITTEN DESCRIPTION OF BENCHMARK AND LOCATION

BENCHMARK ELEVATION = 000.00

CAUTIONARY NOTE

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE BASED ON ABOVE GROUND EVIDENCE OR INFORMATION GATHERED DURING THE FIELD SURVEY PORTION OF THIS PROJECT. AS SUCH, THIS INFORMATION IS SPECULATIVE IN NATURE, ONLY AND SHOULD NOT BE CONSTRUED AS FACT. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF THE UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY AND ALL CONSTRUCTION.

UTILITY STATEMENT

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

UTILITY STATEMENT

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantee that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

UTILITY NOTE

ALL UTILITIES SHALL BE TIED INTO THE NEAREST LOCAL UTILITY SERVICE AVAILABLE AS APPROVED BY THE UTILITY COMPANY IN QUESTION, AND ACCORDING TO ALL LOCAL GOVERNMENTAL REQUIREMENTS AND BROUGHT INTO THE MECHANICAL ROOM.

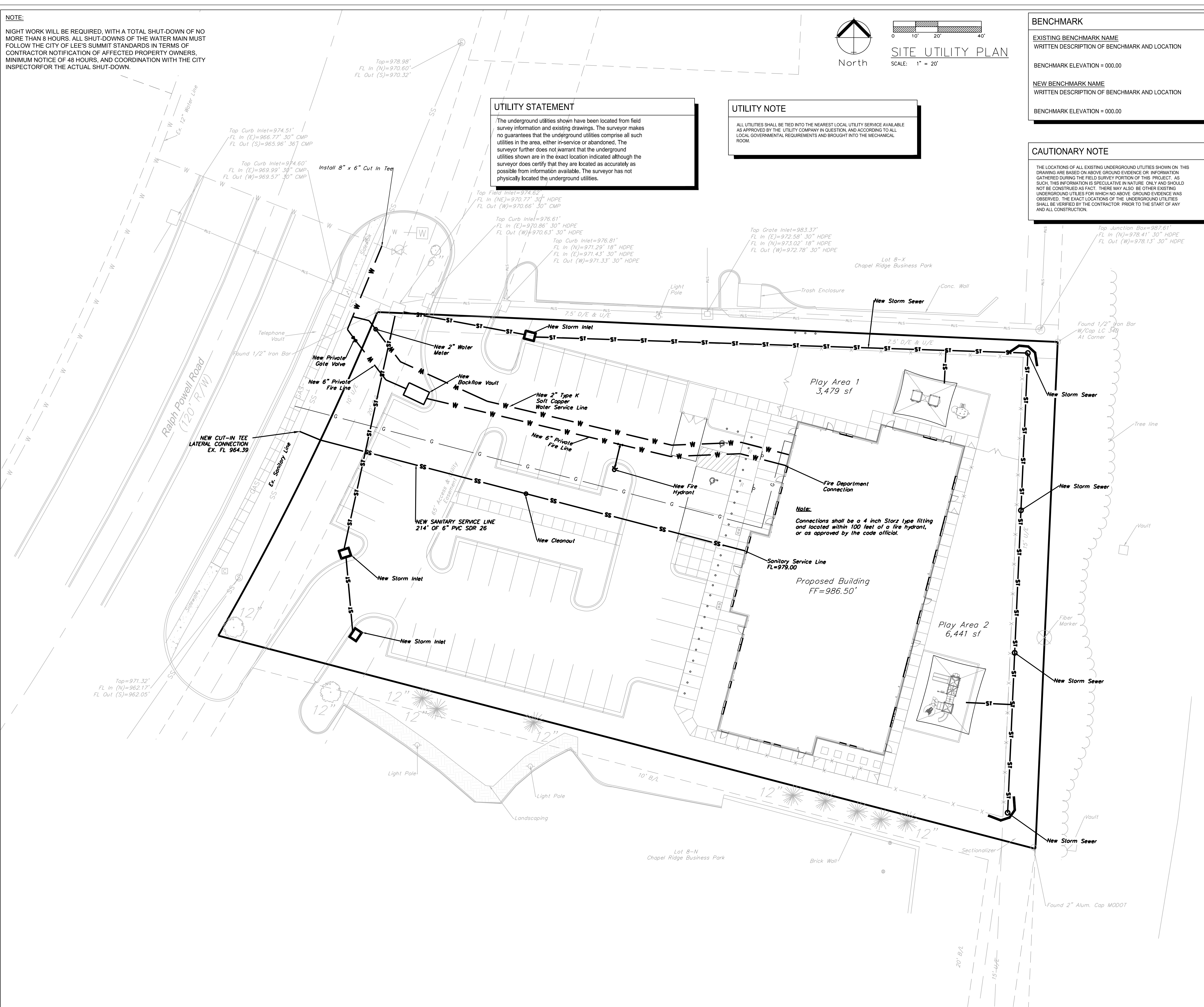
SYMBOL LEGEND

MARK	DESCRIPTION:
	EXISTING ASPHALT
	EXISTING CONCRETE
	EXISTING BRICK
	TEMPORARY BENCHMARK
	SECTION CORNER
	REBAR FOUND/REBAR SET
	RAILROAD SPIKE FOUND
	MAG NAIL FOUND
	YARD LIGHT
	POWER POLE
	GUY WIRE
	TELEPHONE PEDESTAL
	STAND PIPE
	SANITARY MANHOLE
	MAIL BOX
	DECIDUOUS TREE
	WATER VALVE
	FIRE HYDRANT
	WATER MANHOLE
	INLET (SHOULD BE LOCATED OUTSIDE PLAY YARD OR PLASTIC GRATES ARE TO BE USED)
	CURB INLET
	BEEHIVE INLET
	DRAINAGE MANHOLE
	650.00 PROPOSED ELEVATION
	RIM STORM INLET TOP OF CASTING ELEVATION
	INV STORM SEWER INVERT ELEVATION
	TC TOP OF CURB ELEVATION
	BC BOTTOM OF CURB ELEVATION
	000 PROPOSED CONTOUR

The locations of existing underground utilities shown on this plan are based on above ground evidence only, including, but not limited to, manholes, meters, valves, and marks made by others.

UTILITY NOTES

1. THERE SHALL BE NO UTILITIES RUN UNDER PLAYGROUND AREAS.
2. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ORDER ALL NEW SERVICES, LOCATE AND MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY PIPING, WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR, AT HIS EXPENSE WITH THE PERMISSION OF THE OWNER.
4. BEFORE WORKING WITH OR AROUND EXISTING UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE CONTACTED BY THE CONTRACTOR.
5. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPING SHALL BE FIELD VERIFIED. NOTIFICATION SHALL BE GIVEN TO THE OWNER IF THE EXISTING PIPING IS FOUND TO BE DIFFERENT THAN THAT SHOWN ON THE DRAWINGS.
6. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
7. NEW 6" WATER LINES SHALL BE DUCTILE IRON CONFORMING TO AWWA C151, CLASS 55. NEW 2" WATER LINES SHALL BE SEAMLESS COPPER WATER TUBING THAT SATISFIES THE REQUIREMENTS OF ASTM 1886.
8. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
9. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PVC (SDR-26) PIPE WITH GASKETTED, COMPRESSION-TYPE JOINTS WITHIN TEN FEET OF THE WATER LINE.
10. NEW 6" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.
11. ALL INLET COVER GRATES LOCATED IN PLAYGROUND AREA TO BE EXTERIOR GRADE RIDGED PVC (NO CAST IRON).
12. CONTRACTOR TO PROVIDE SURFACE MOUNT EXTERIOR GRADE PHONE CABINET AND PHONE, 48" MIN. TO 60" MAX. AFF. TO PROTRUDE 4" MAX. FROM FACE OF WALL. SEE HOFFMAN ATC12124S TYPE 1 STEEL CABINET. PAINT TO MATCH ADJACENT WALL COLOR.
13. CONTRACTOR TO COORDINATE INTERNET SERVICE AND COAX INSTALL AND LOCATIONS WITH OWNER AND GSI REPRESENTATIVE.



Professional Registration
Missouri
Engineering 200502188-D
Surveying 200503019-D
Kansas
Engineering E-1696
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Lot 8-J, Chapel Ridge Business Park
Section 17, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

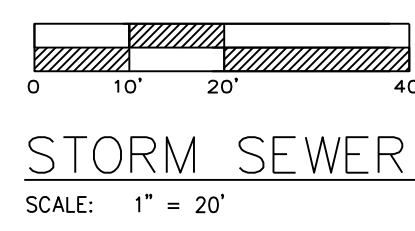
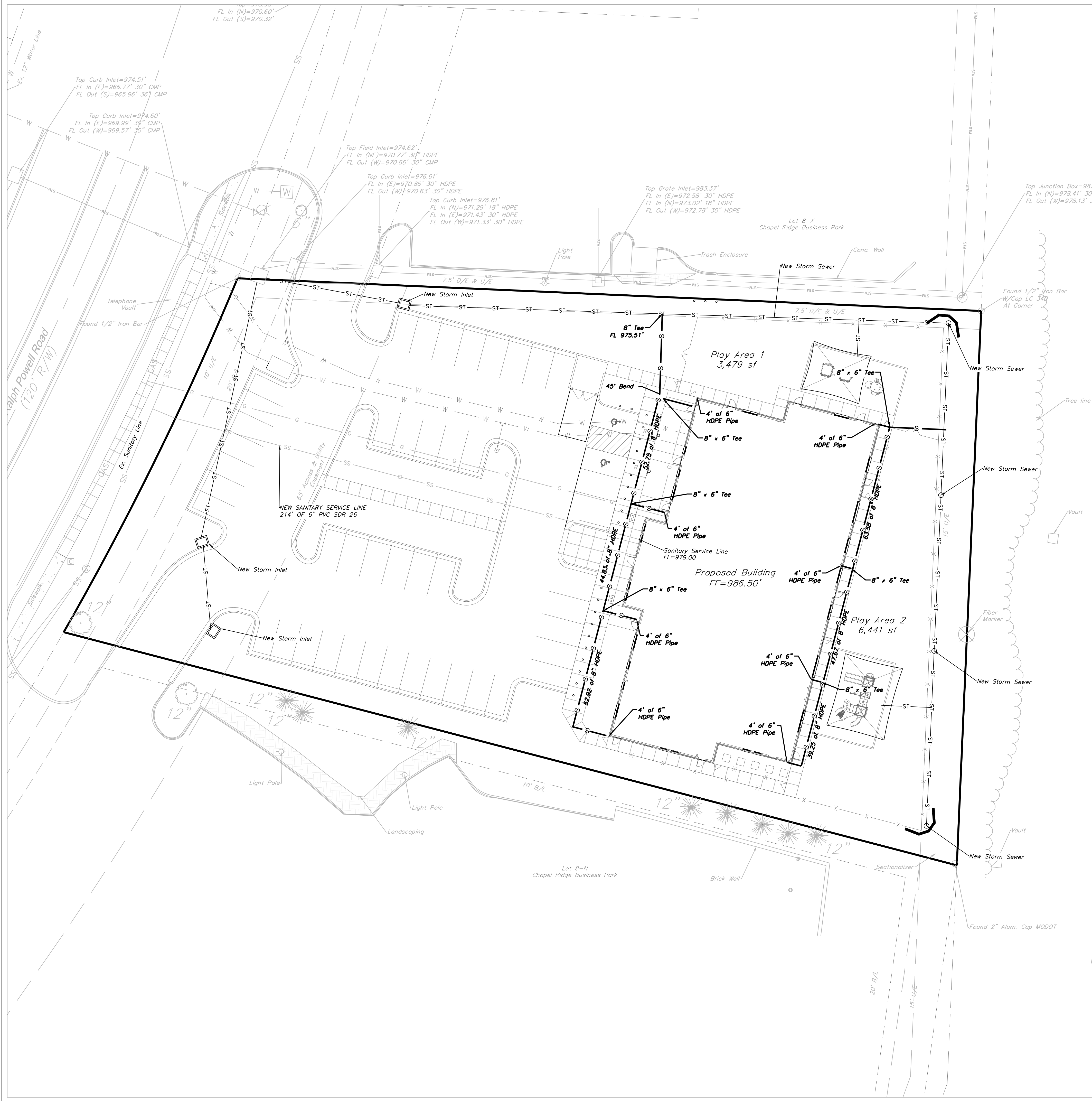
Project: GODDARD SCHOOL
LOT 8-J, CHAPEL RIDGE
Issue Date: February 9, 2019

UTILITY PLAN
Construction Plans for:
GODDARD SCHOOL
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS

2/8/19 Bid Set
REV 2/12/19
REV 5/7/19
REV 5/30/19

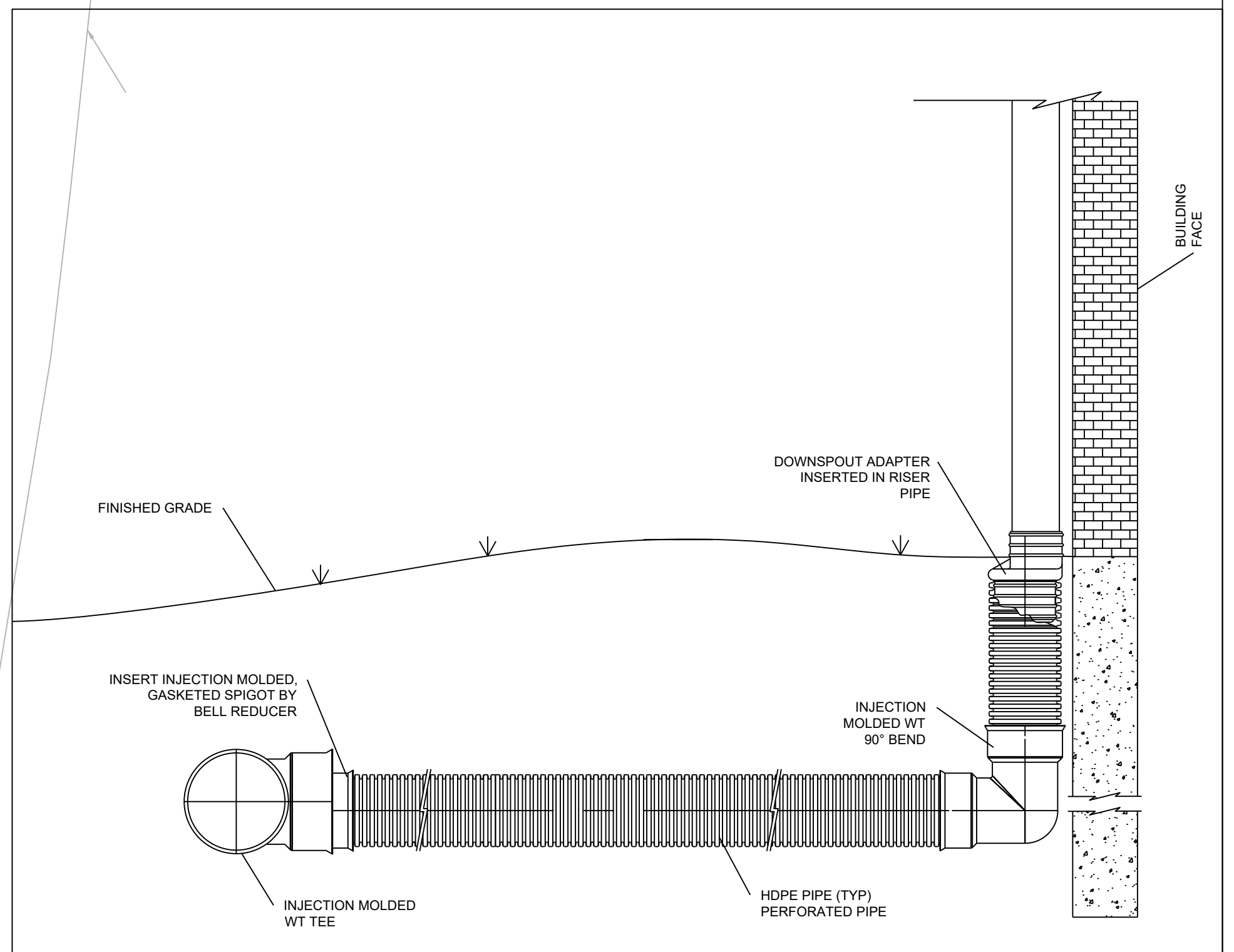


STORM SEWER PLAN

SCALE: 1" = 20'

UTILITY NOTES

1. THERE SHALL BE NO UTILITIES RUN UNDER PLAYGROUND AREAS.
2. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THE SITE. THE LOCATION AND SIZE OF THESE UTILITIES MAY BE APPROXIMATE. THE ENGINEER SHALL NOT BE HELD LIABLE FOR ANY INACCURATE UTILITY INFORMATION INDICATED, IMPLIED, OR NOT INDICATED ON THESE PLANS.
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6. FOR CLARITY OF THESE DRAWINGS, PIPES MAY NOT BE DRAWN TO SCALE OR EXACTLY LOCATED.
7. NEW 6" WATER LINES SHALL BE DUCTILE IRON CONFORMING TO AWWA C151, CLASS 55. NEW 2" WATER LINES SHALL BE SEAMLESS COPPER WATER TUBING THAT SATISFIES THE REQUIREMENTS OF ASTM 1888.
8. ALL NEW WATER LINES SHALL HAVE A MINIMUM OF 54 INCHES OF COVER.
9. MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN NEW WATER AND SANITARY SEWER LINES. IF 18 INCHES OF CLEARANCE IS NOT PROVIDED THEN THE SEWER MUST BE CONSTRUCTED OF WATER WORKS GRADE DUCTILE IRON PIPE WITH MECHANICAL JOINTS OR PVC (SDR-26) PIPE WITH GASKETTED, COMPRESSION-TYPE JOINTS WITHIN TEN FEET OF THE WATER LINE.
10. NEW 6" SANITARY LATERALS SHALL BE SDR-35, SCHEDULE 80 OR SCHEDULE 40 PVC PIPE CONFORMING TO ASTM D2241, AND SHALL MEET THE DEFLECTION STANDARDS OF ASTM D-3303.



Professional Registration
 Missouri
 Engineering 200502188-D
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 Kansas
 Engineering E-1695
 Surveying LS-219
 Oklahoma
 Engineering 6254
 Nebraska
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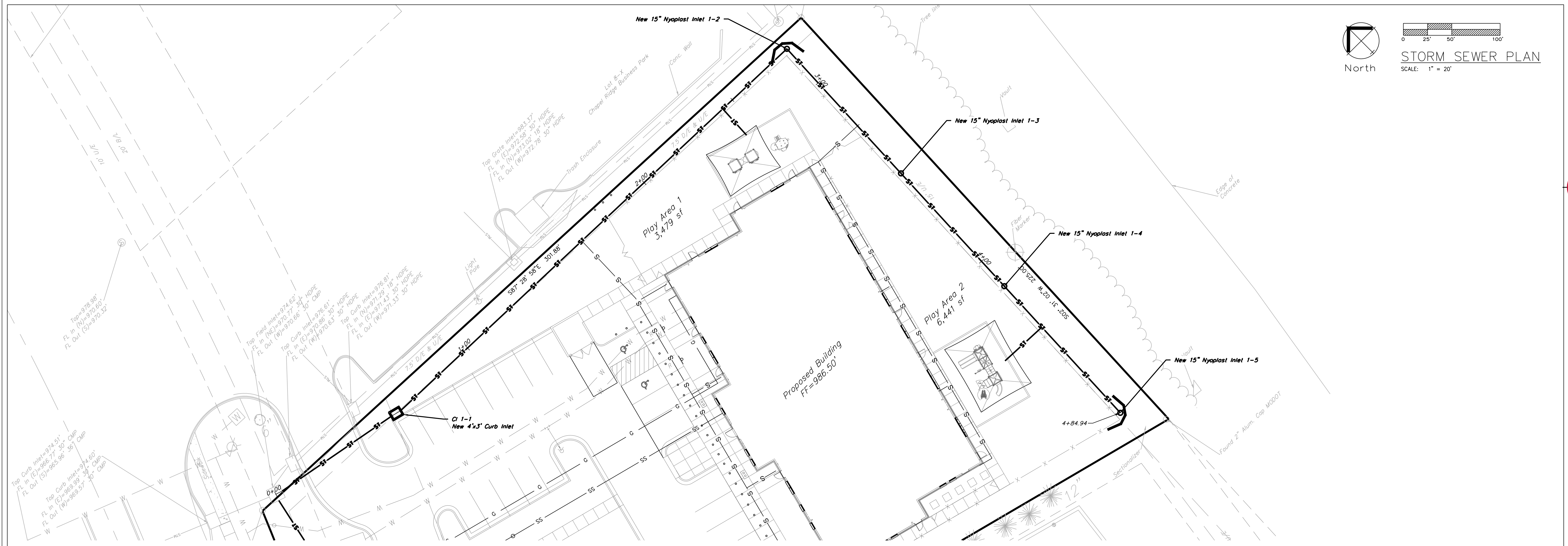
Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

Project: GODDARD SCHOOL
 LOT 8-J, CHAPEL RIDGE
 Issue Date: February 9, 2019

STORM SEWER PLAN
 Construction Plans for:
 GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

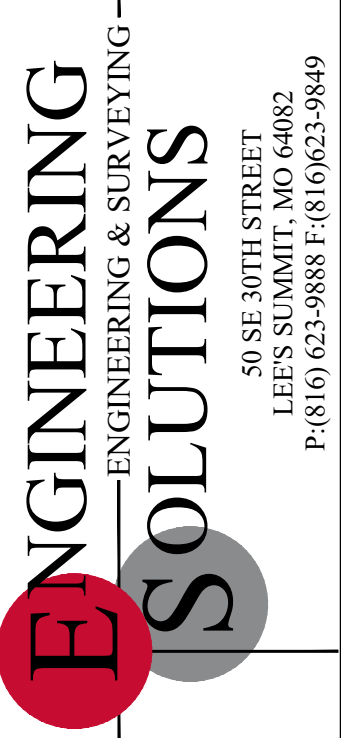
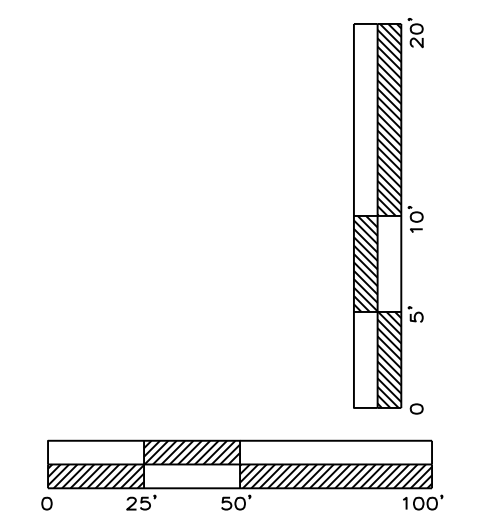
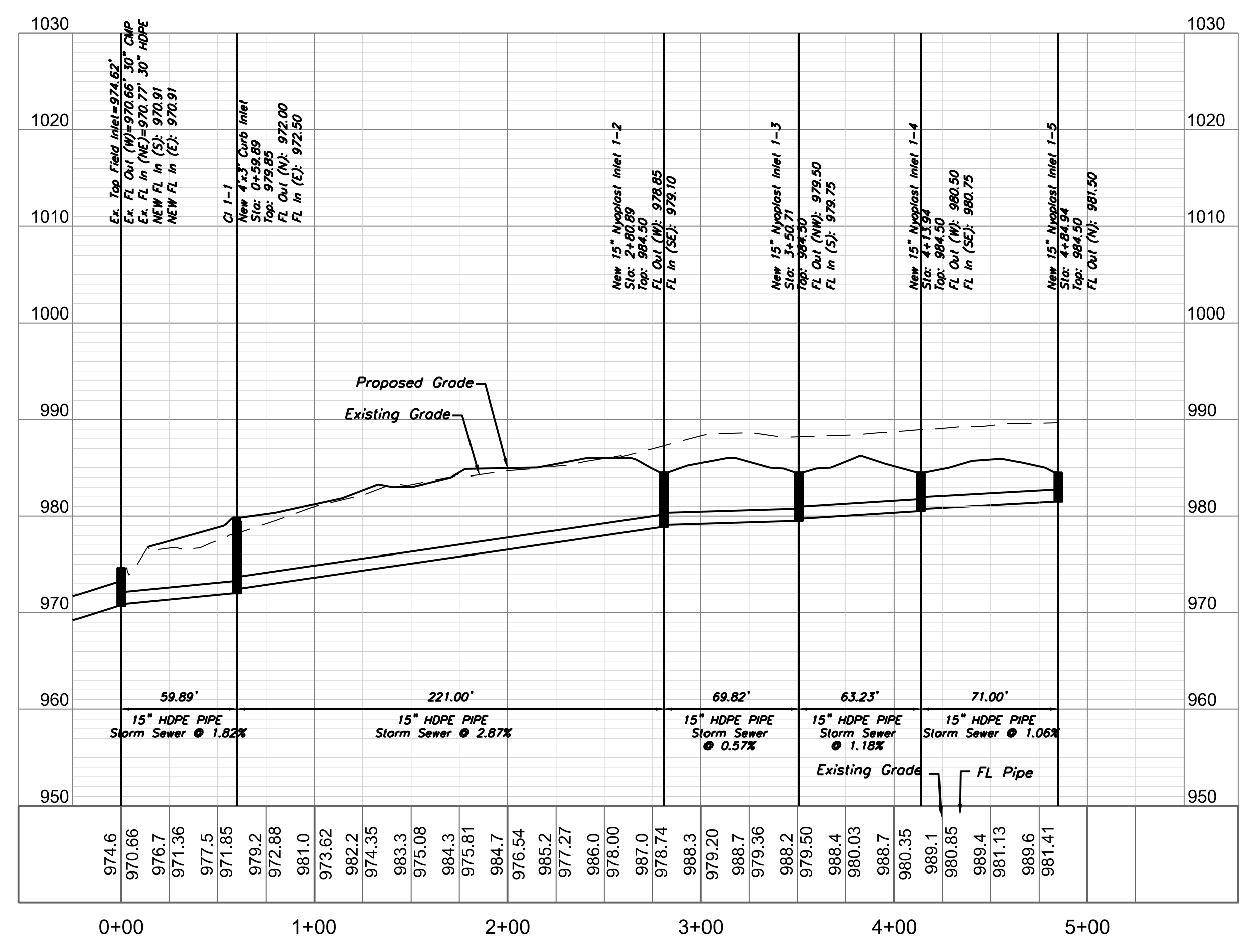
Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 25226

REVISIONS
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REV 2/12/19
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REV 5/30/19



STORM SEWER PLAN
SCALE: 1" = 20'

STORM LINE 1



Professional Registration
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Surveying 200500019-D
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Engineering E-1695
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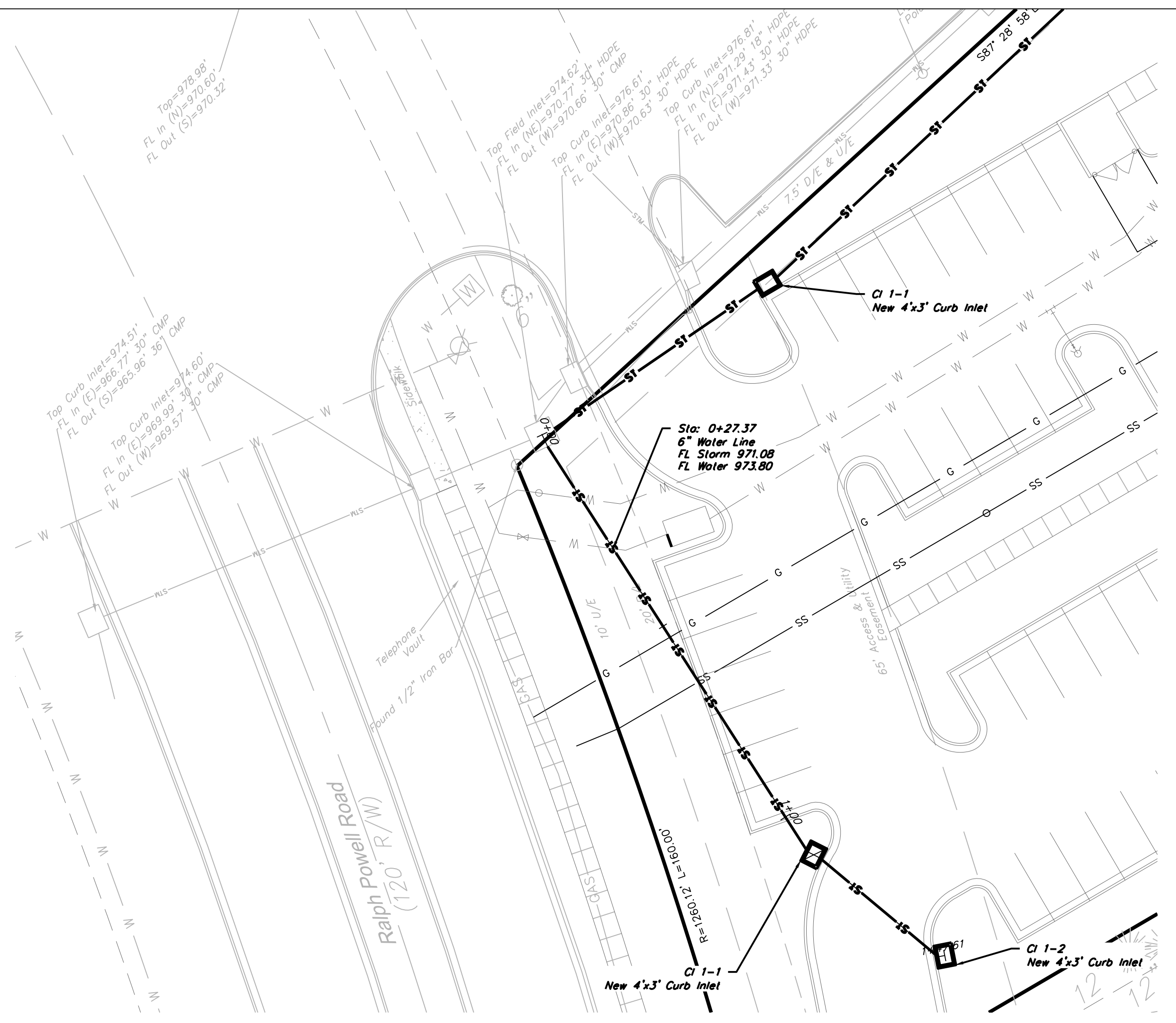
Lot 8-J, Chapel Ridge Business Park
Section 17, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project: GODDARD SCHOOL
LOT 8 & CHAPEL RIDGE
Issue Date: February 9, 2019

STORM SEWER PLAN AND PROFILE
Construction Plans for:
GODDARD SCHOOL
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

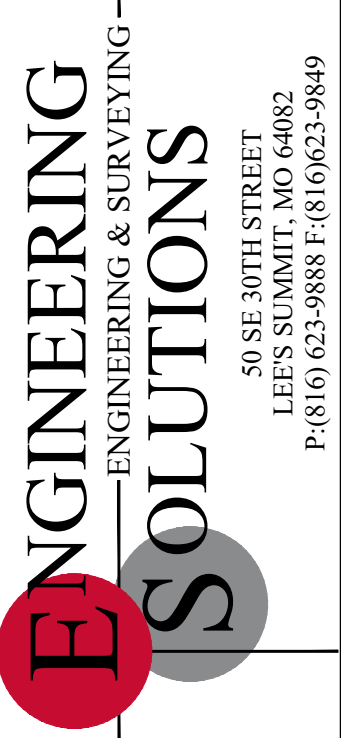
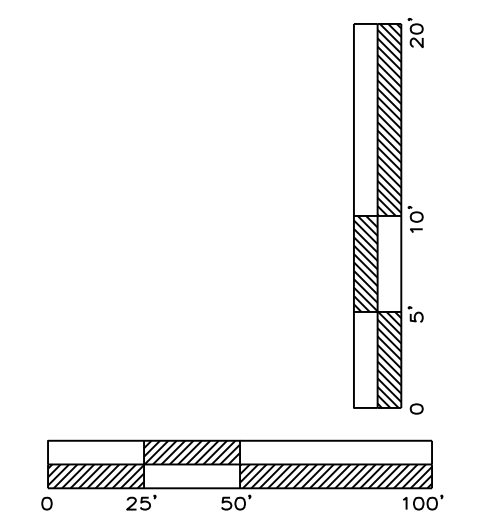
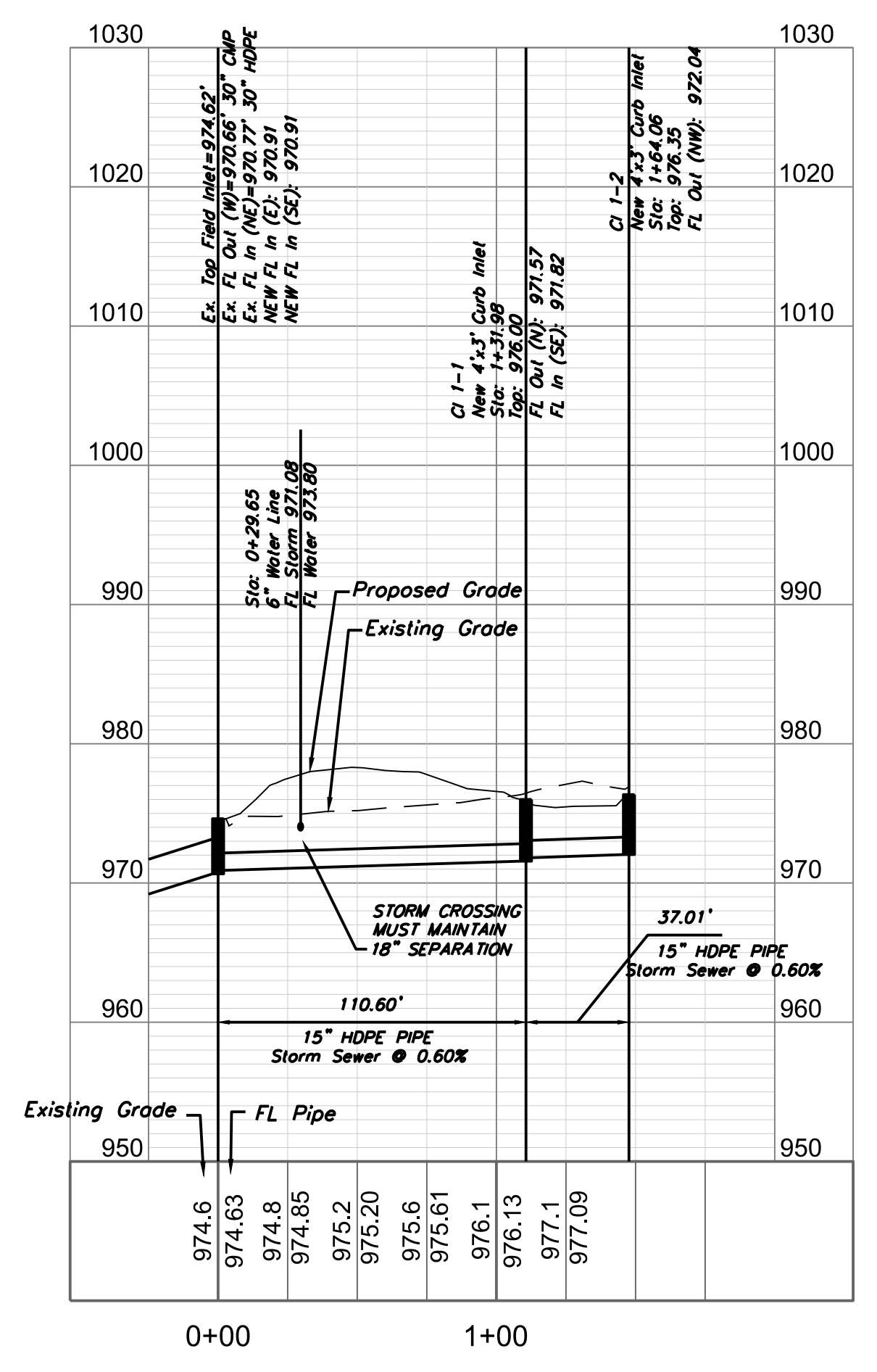
REVISIONS
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REV 2/12/19
REV 5/7/19
REV 5/30/19



STORM SEWER PLAN
SCALE: 1" = 20'

STORM LINE 2

▲ CORRECTED STORM SEWER PLAN AND PROFILE



Professional Registration
Missouri
Engineering 2005002188-D
Surveying 200500019-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
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Lot 8-J, Chapel Ridge Business Park
Section 17, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

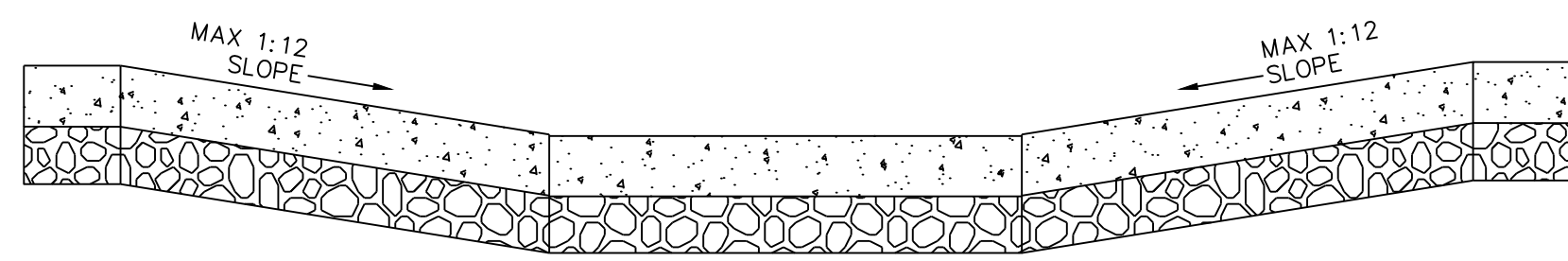
Project: GODDARD SCHOOL
LOT 8-J, CHAPEL RIDGE
Issue Date:
February 9, 2019

STORM SEWER PLAN AND PROFILE
Construction Plans for:
GODDARD SCHOOL
Lee's Summit, Jackson County, Missouri

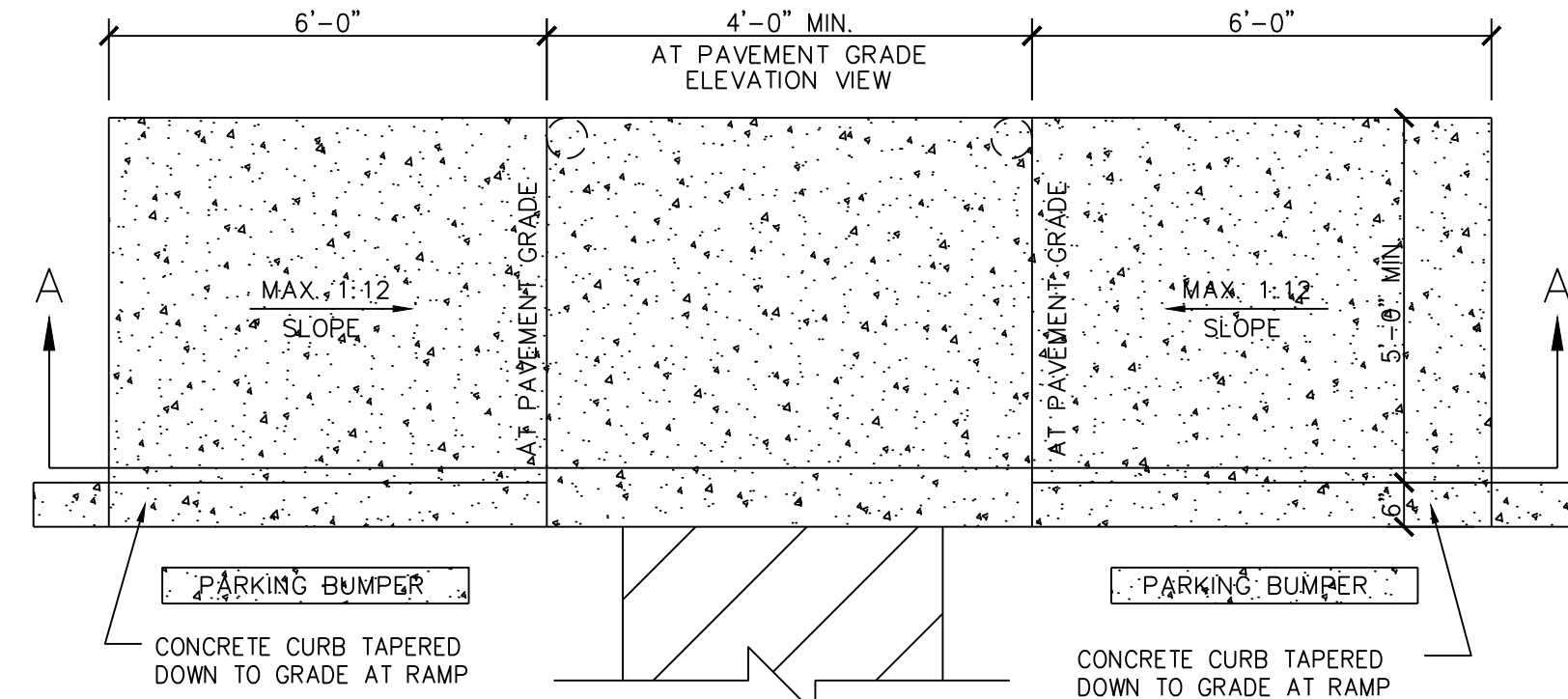
Matthew J. Schlicht
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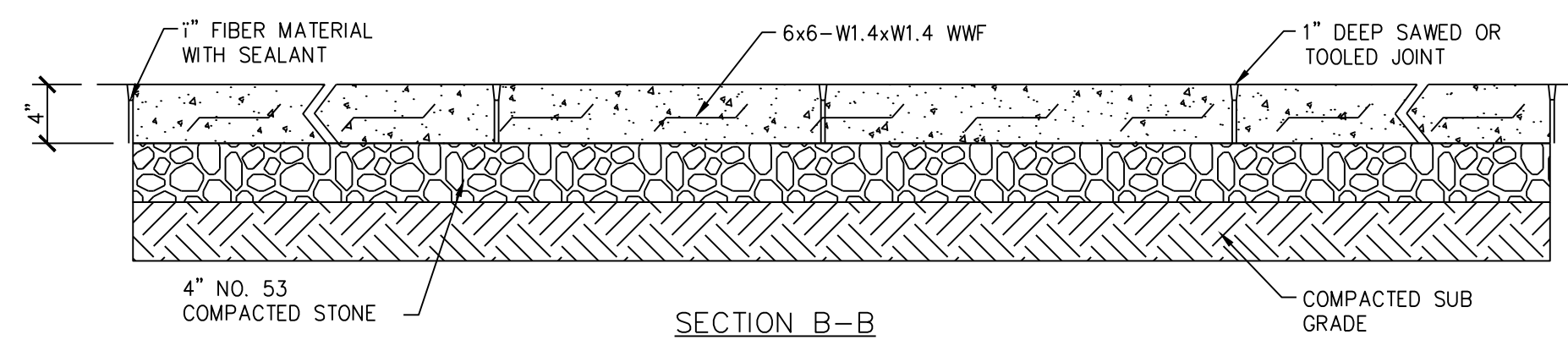
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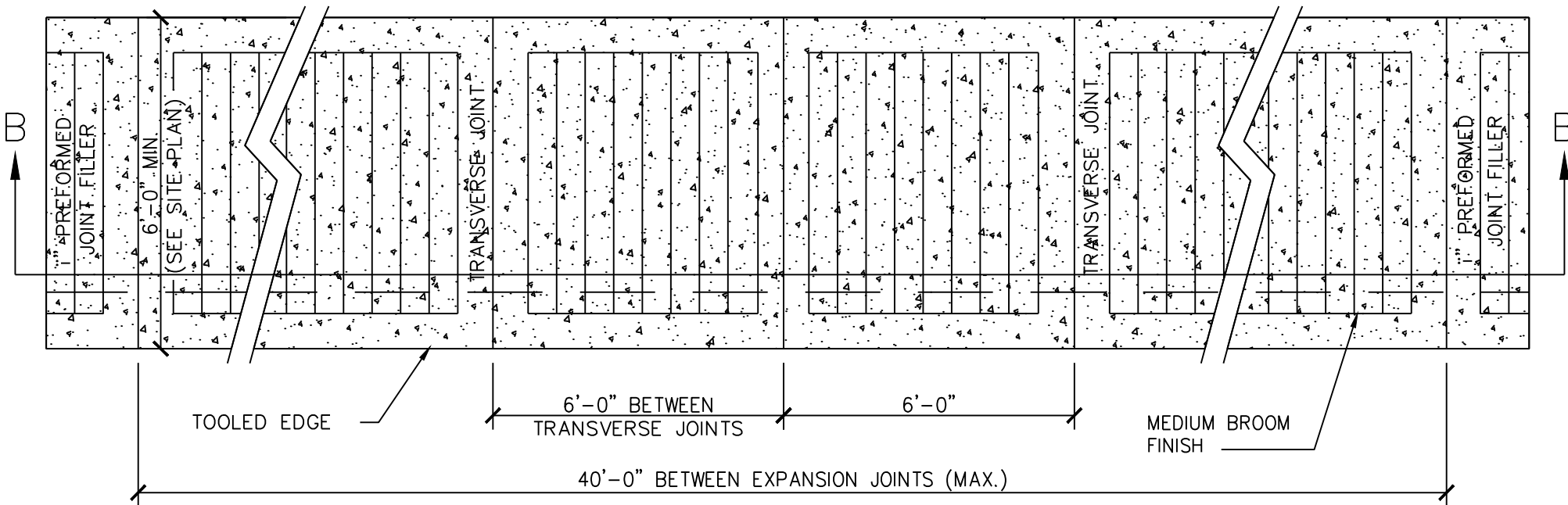
NOTE:
IF CLEARANCE BEHIND RAMP IS LESS THAN 48" THEN SIDE FLARES MUST HAVE A 1:12 MAX. SLOPE

PLAN VIEW

4
C5.1
HANDICAP RAMP DETAIL
SCALE: N.T.S.

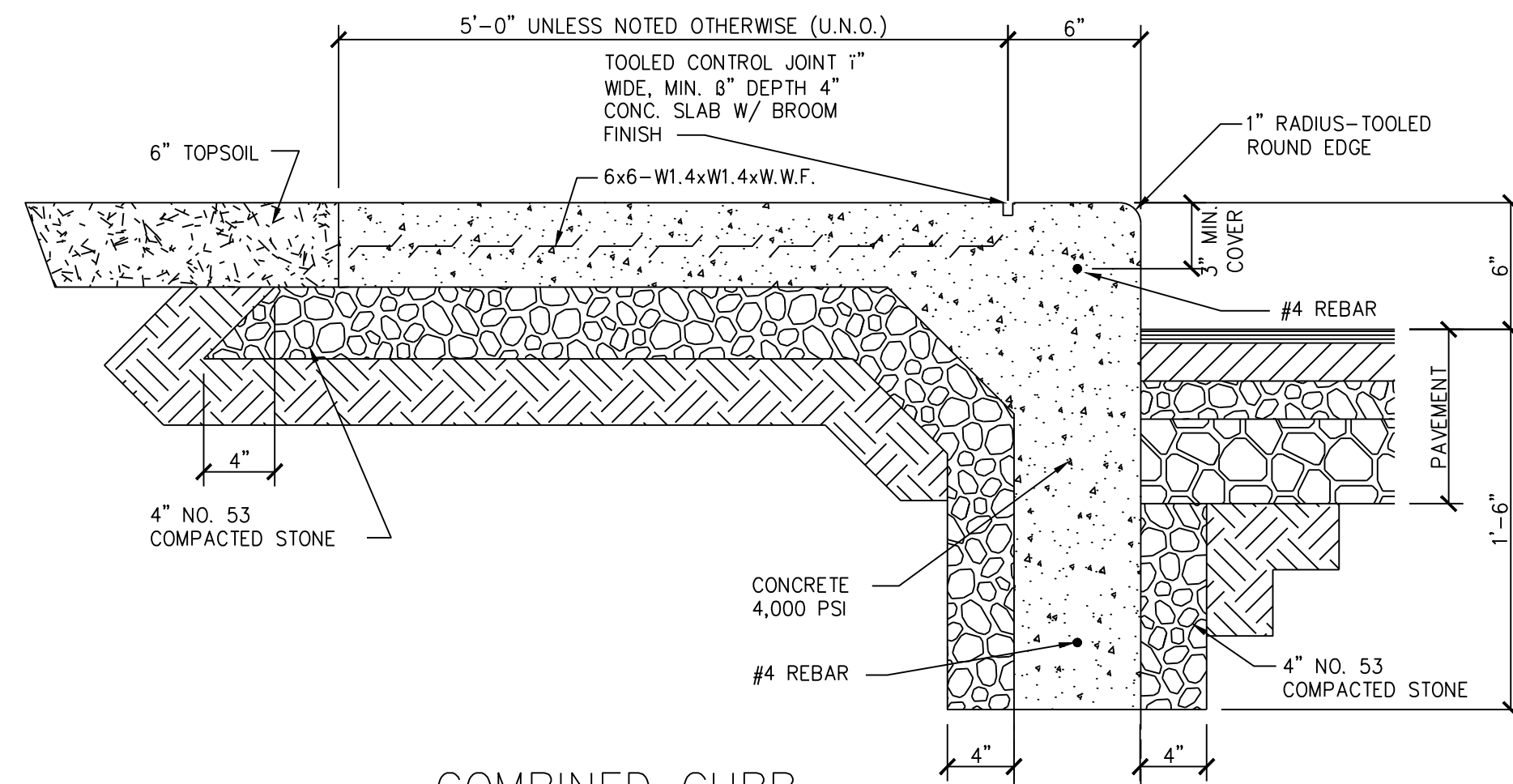


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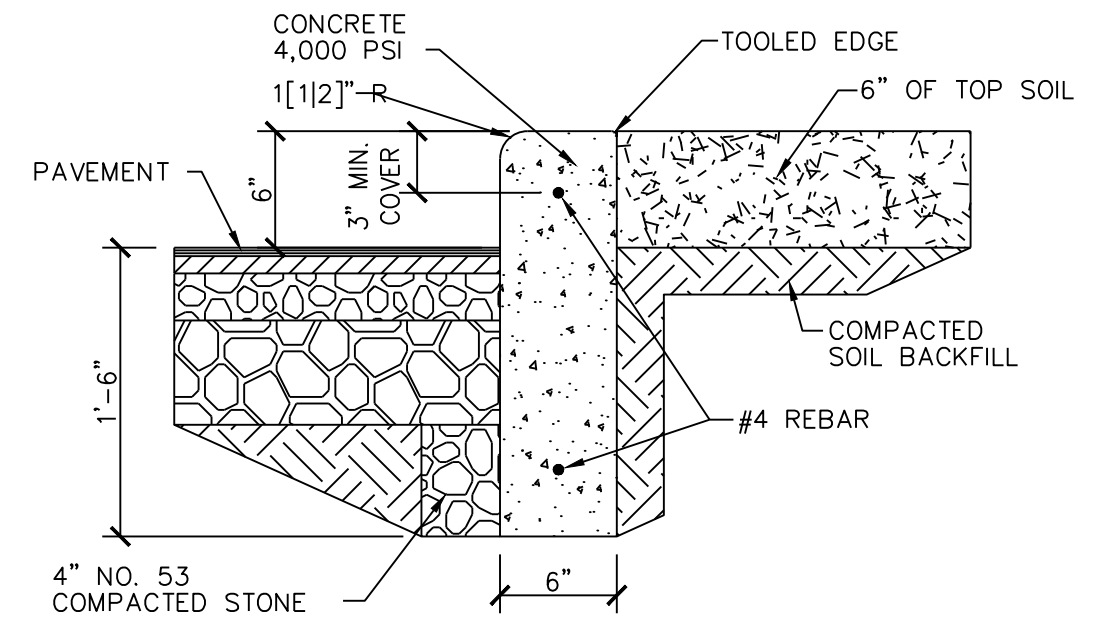


PLAN VIEW

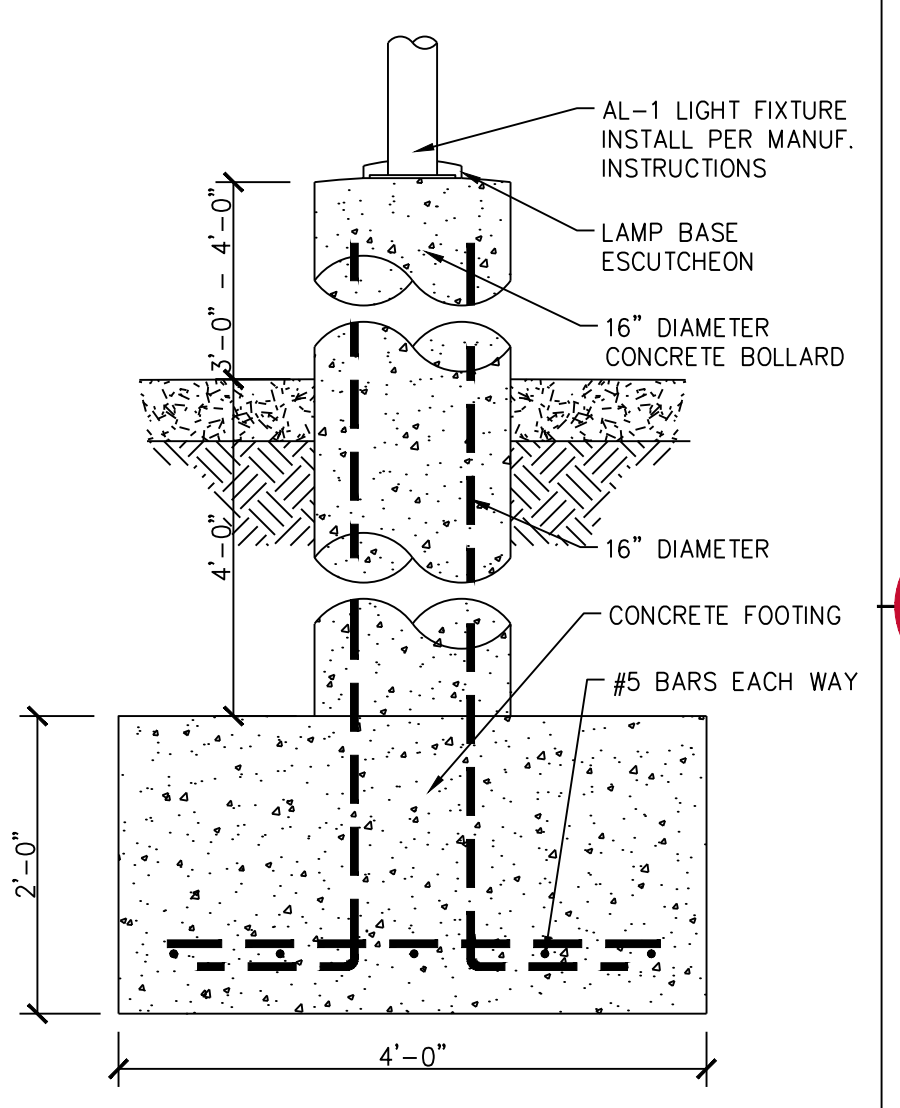
5
C5.1
SIDEWALK DETAIL
SCALE: N.T.S.



7
C5.1
COMBINED CURB & WALK DETAIL
SCALE: N.T.S.



9
C5.1
STANDING CONCRETE CURB DETAIL
SCALE: N.T.S.



3A
C5.1
OUTDOOR AREA LAMP BOLLARD
SCALE: N.T.S.

Professional Registration
Missouri
Engineering 200502188-D
Surveying 200508318-D
Kansas
Engineering E-1895
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Lot 8-J, Chapel Ridge Business Park
Section 17, Township 48 North, Range 31 West
Lee's Summit, Jackson County, Missouri

Project: SCHOOL LOT 8-J, CHAPEL RIDGE
Issue Date: February 9, 2019

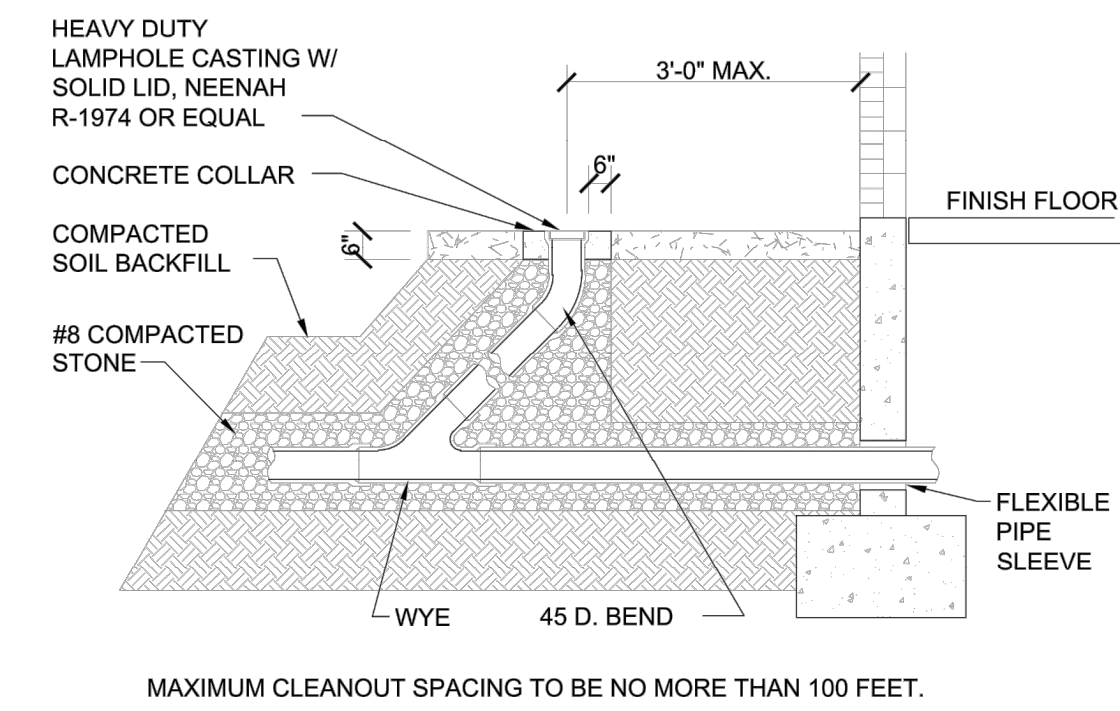
Construction Details
Construction Plans for:
GODDARD SCHOOL
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

REVISIONS
2/8/19 Bid Set
REV 2/12/19
REV 5/7/19
REV 5/30/19

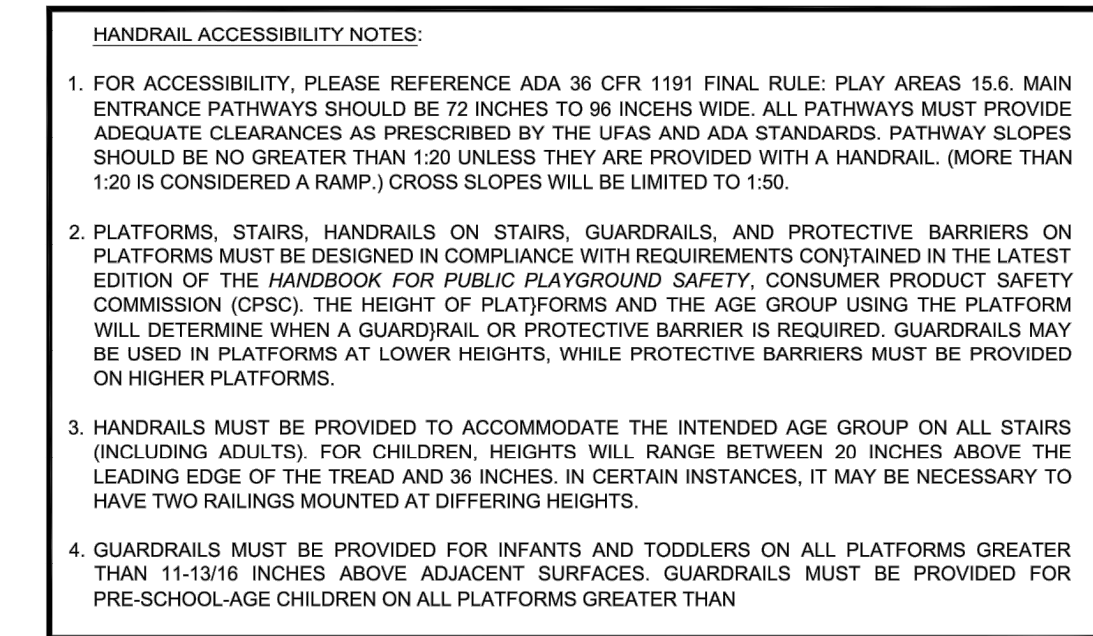
17 BICYCLE RACK

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



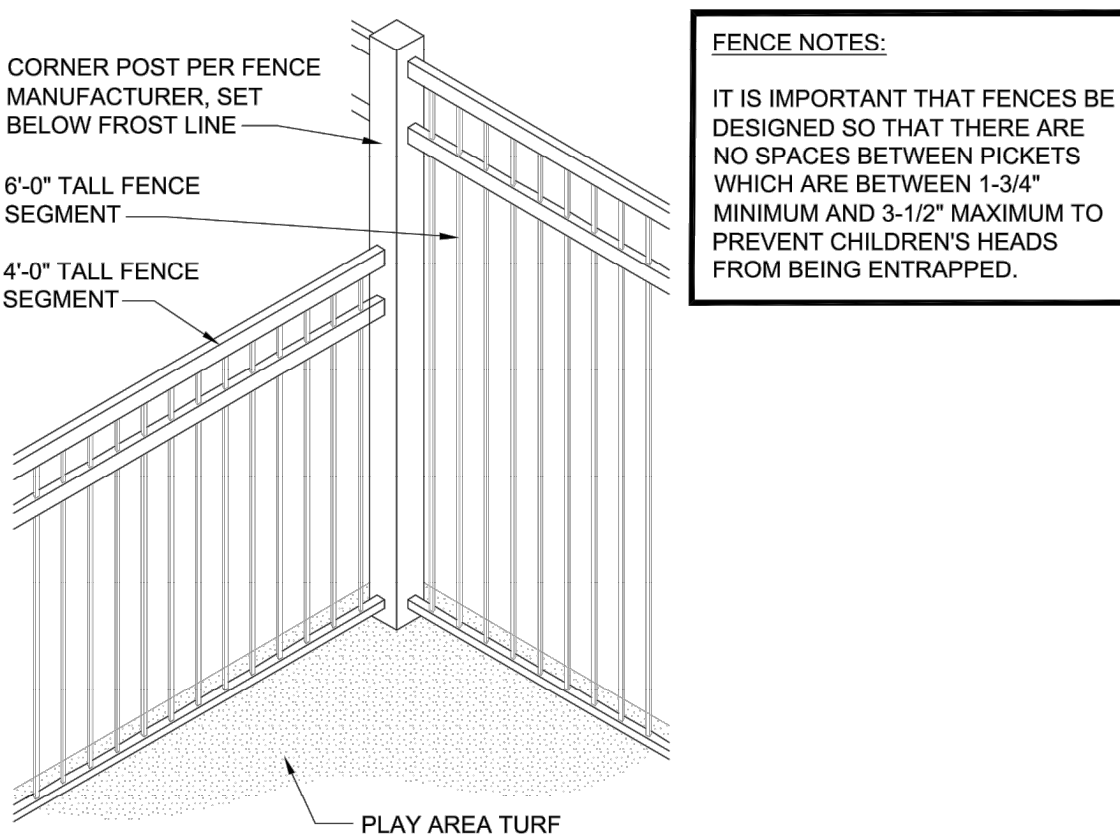
18 TYP. CLEANOUT DETAIL

SCALE: N.T.S.



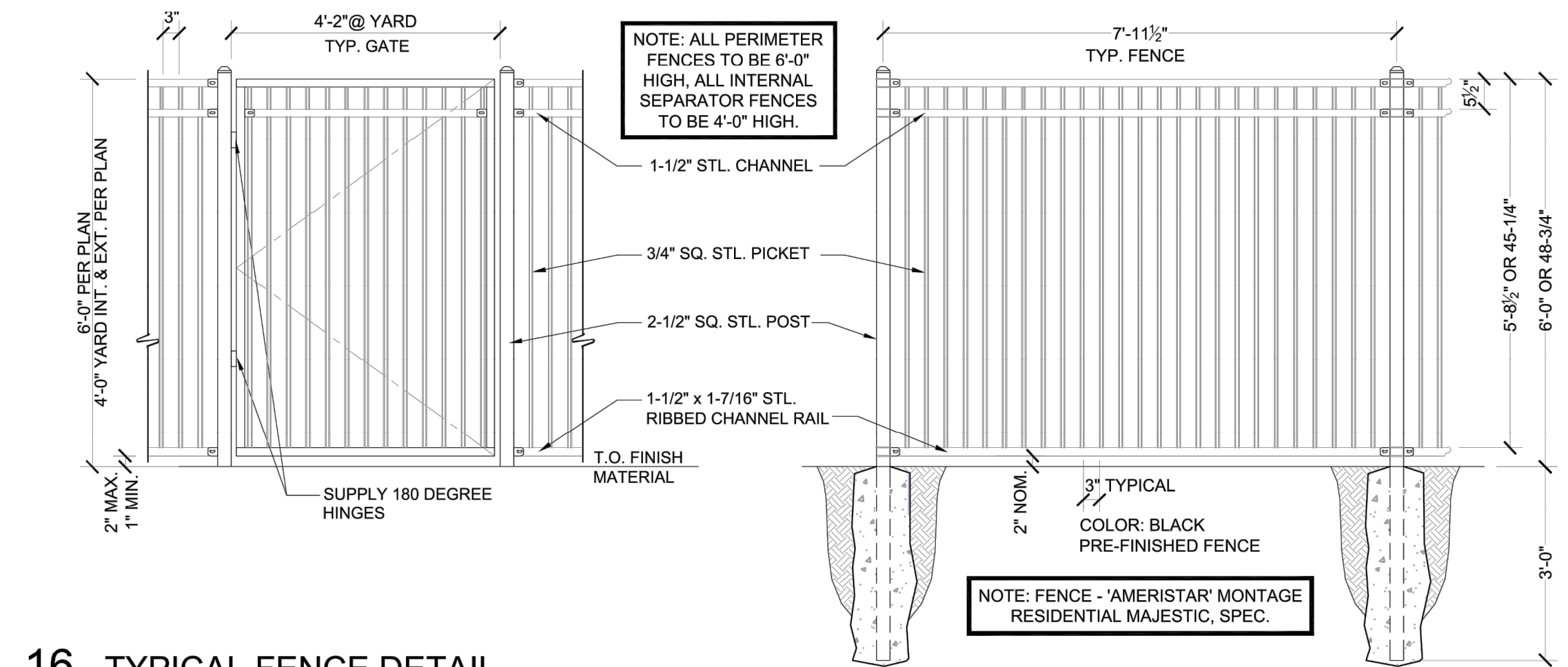
19 HANDRAIL DETAIL

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



20 FENCE TRANSITION DETAIL

SCALE: N.T.S.

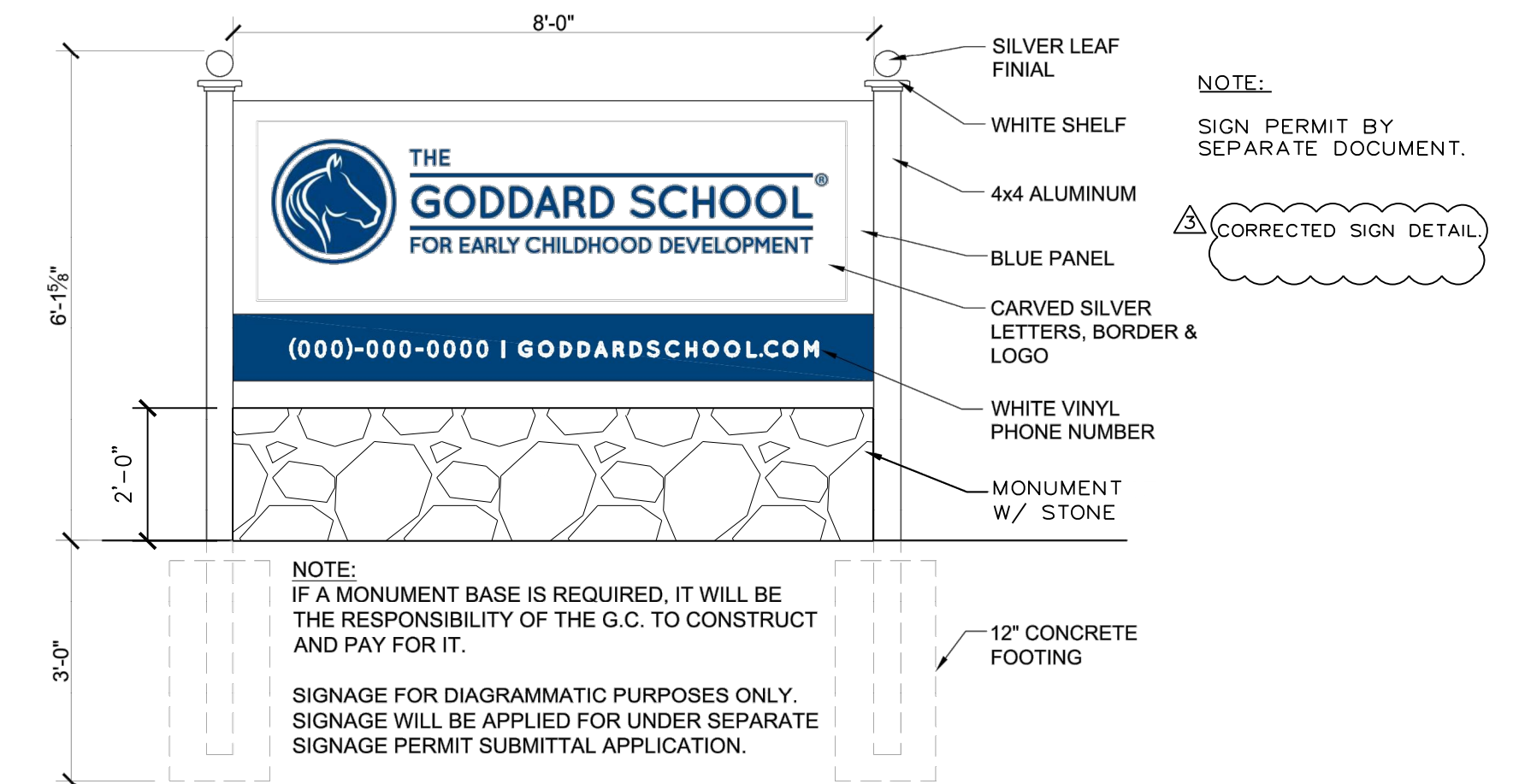


16 TYPICAL FENCE DETAIL

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

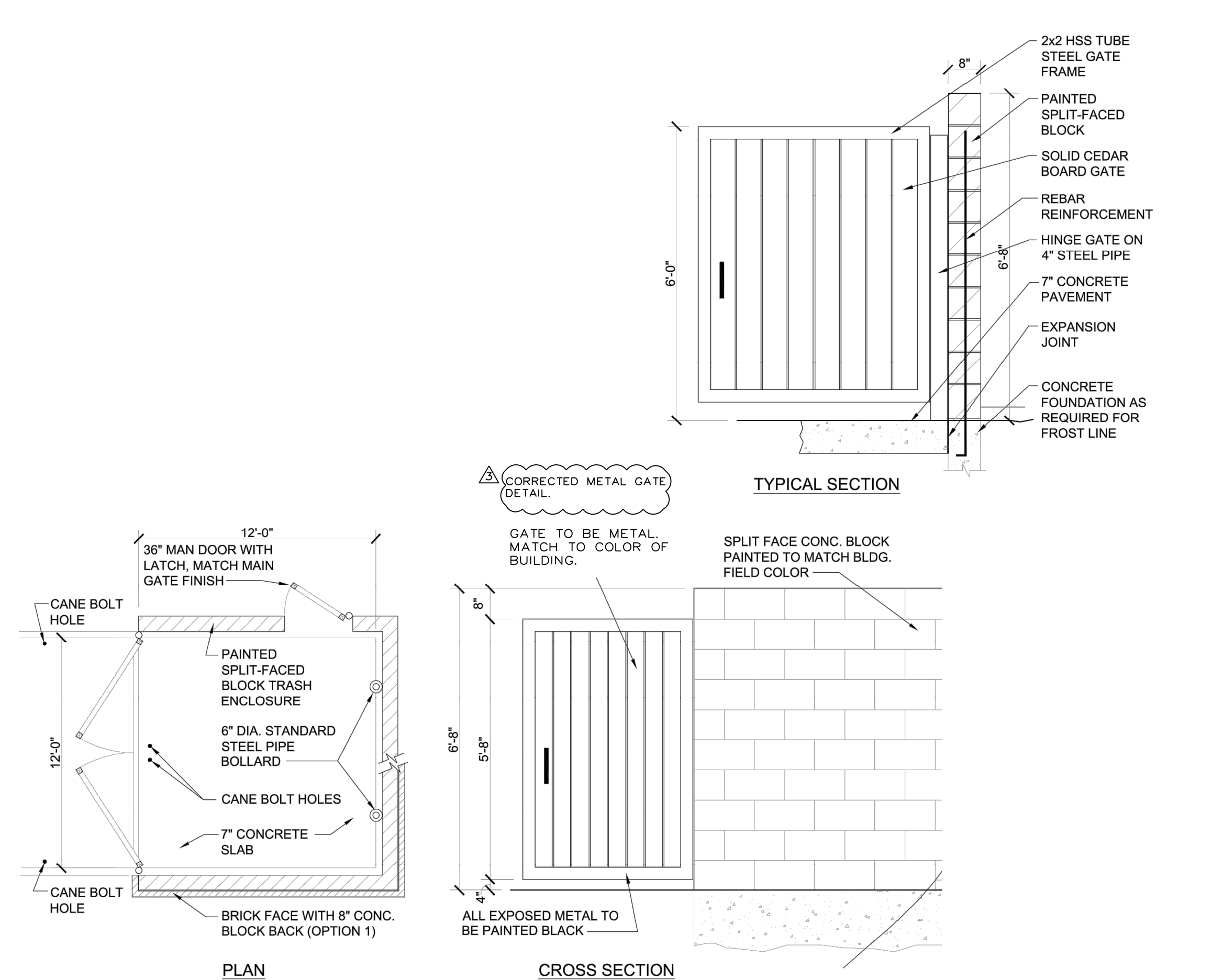
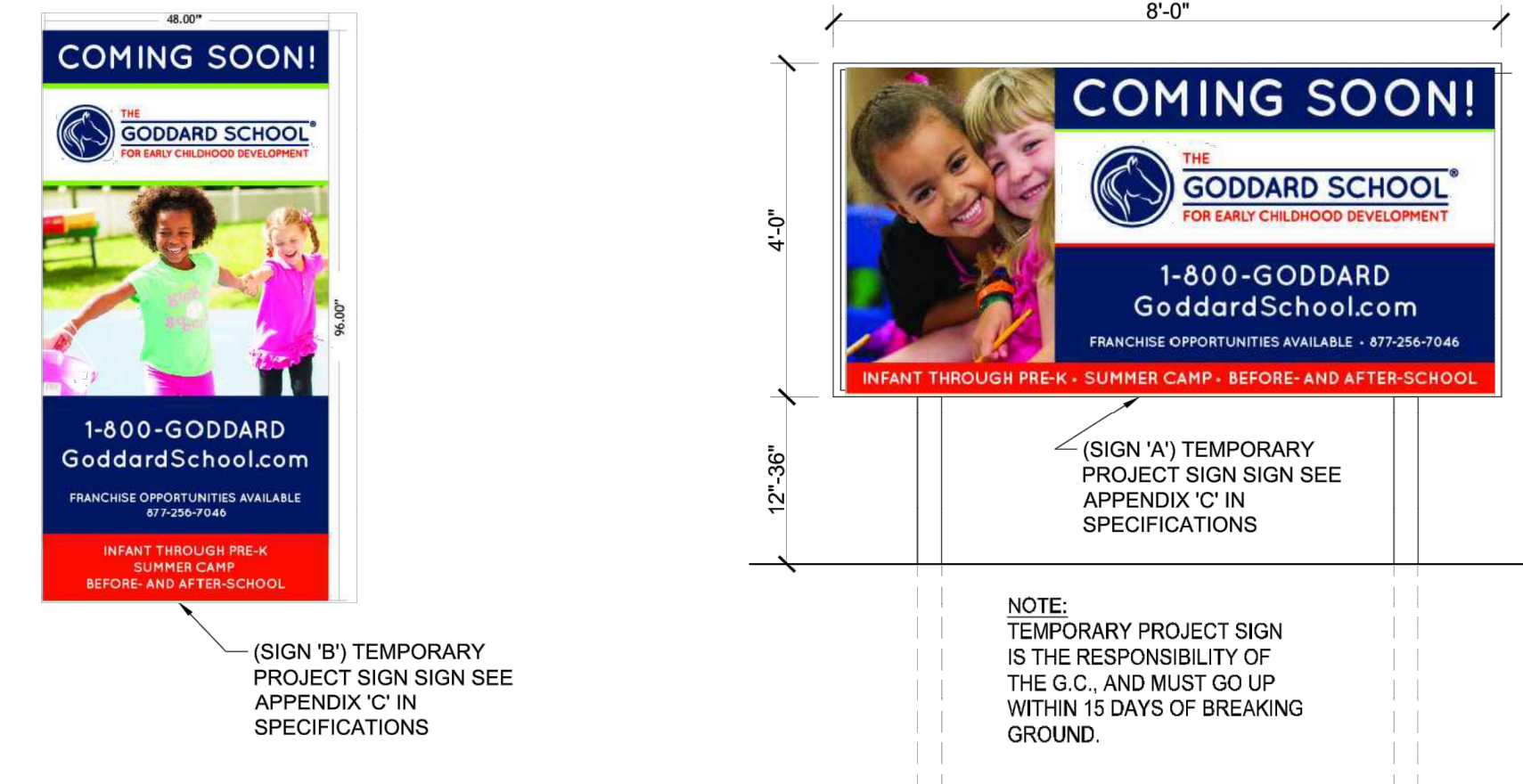
05 MONUMENT SIGNAGE DETAIL

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



06 TEMPORARY SIGN (TYPE 2)

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

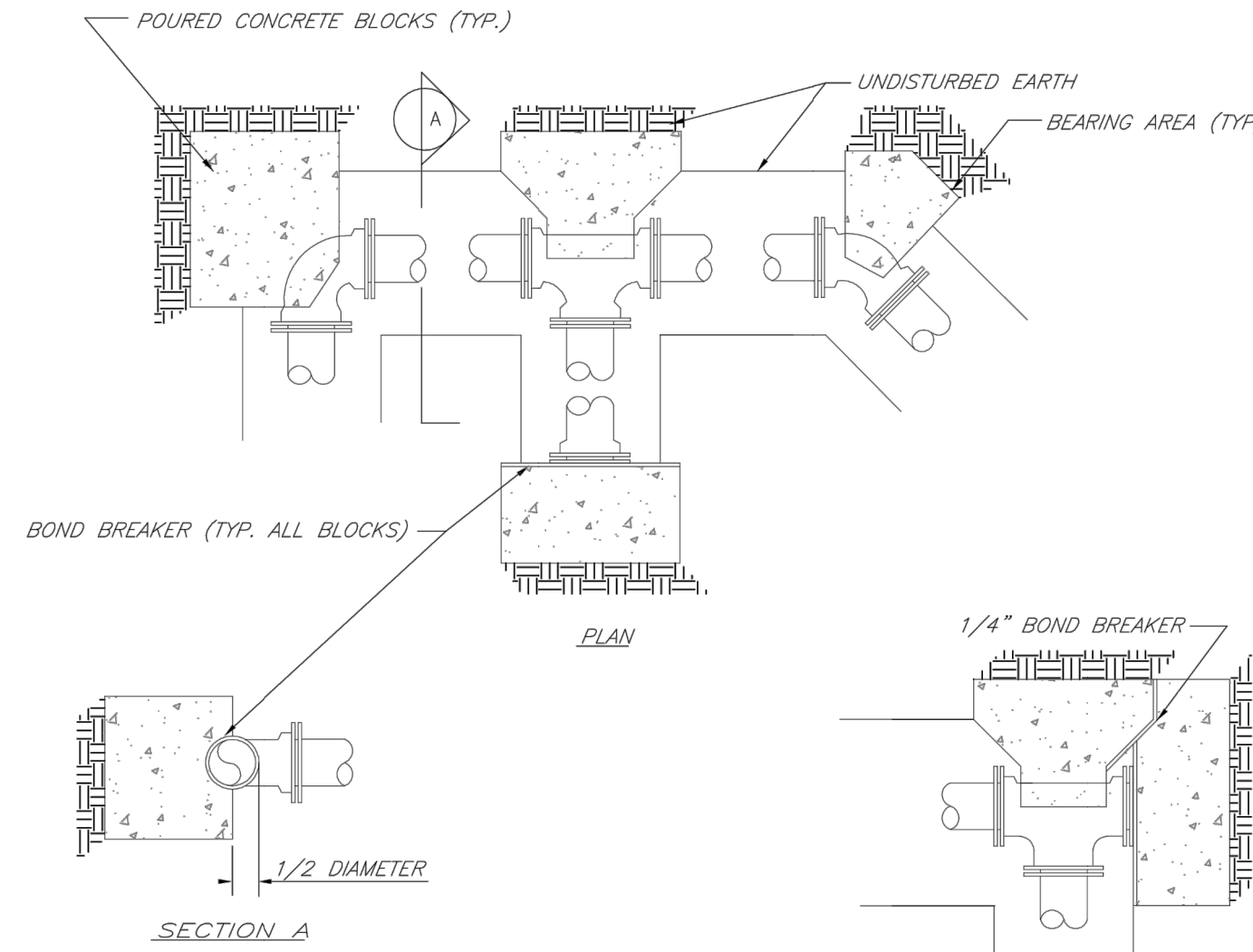


08 TRASH ENCLOSURE DETAILS

SCALE: N.T.S.

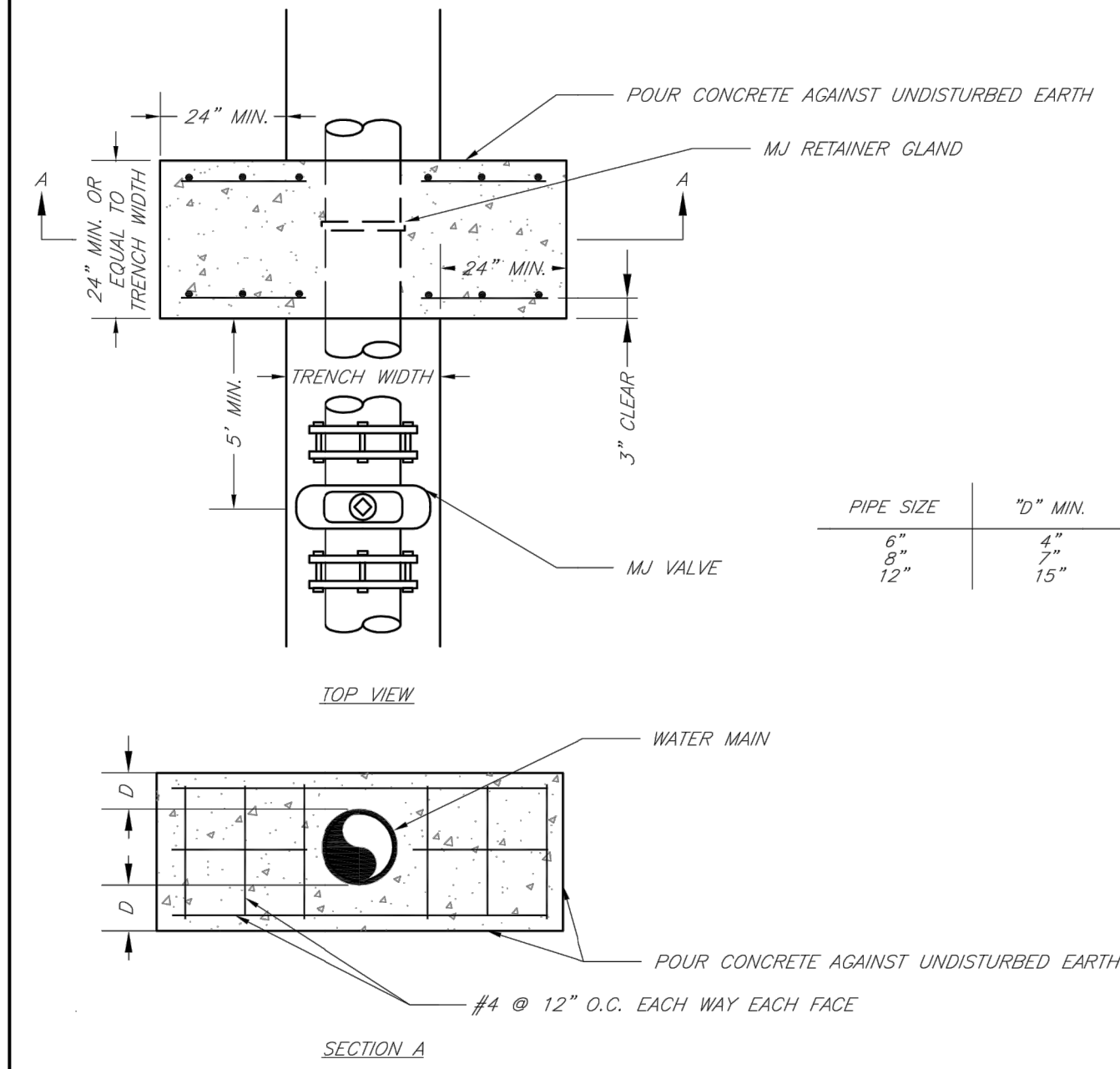
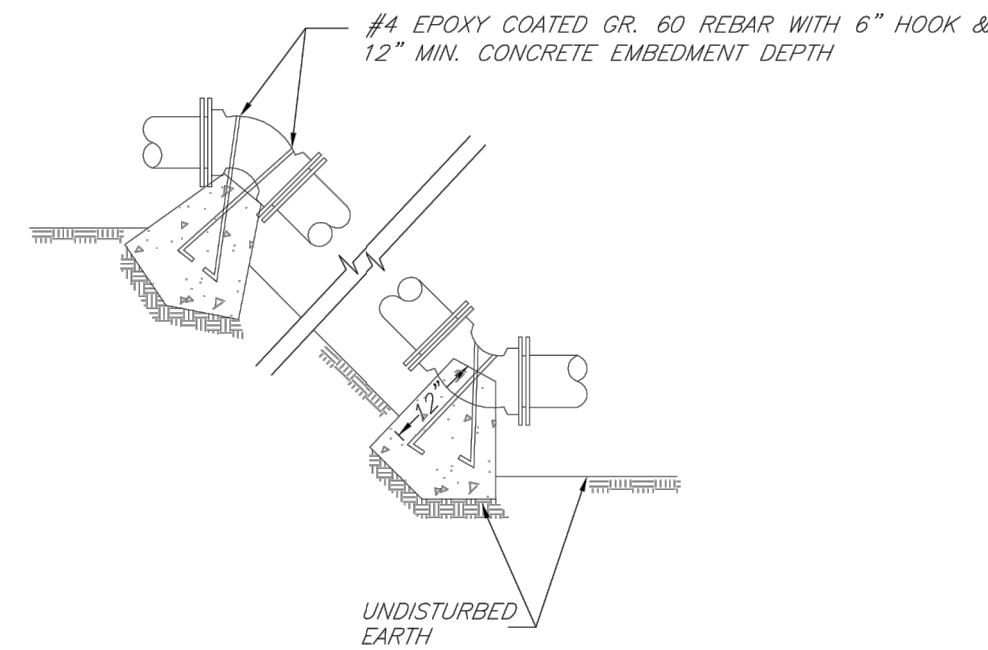
REQUIRED CONCRETE BEARING AREA (SQ. FEET - SF)							
NOM. DIA. (INCHES)	TEE, FLUG	BEND	BEND	BEND	BEND	BEND	BEND
6	4.7	6.7	4.0	4.0	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0	4.0	4.0
12	18.8	26.7	14.4	7.4	4.0	4.0	4.0
14	25.7	36.3	19.6	10.0	5.0	4.0	4.0
16	33.5	47.4	25.6	13.1	6.6	4.0	4.0
18	42.4	60.2	32.5	16.5	8.3	4.0	4.0
20	REST. JT.	REST. JT.	40.1	20.4	10.3	4.0	4.0
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8	4.0	4.0

- NOTES:
 1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)							
NOM. DIA. (INCHES)	TEE, FLUG	BEND	BEND	BEND	BEND	BEND	BEND
6	50.5	71.4	38.6	19.7	9.9	9.9	9.9
8	89.8	126.9	62.7	35.0	17.6	17.6	17.6
10	140.2	198.3	107.3	54.7	27.5	27.5	27.5
12	202.0	282.0	154.6	76.8	39.6	39.6	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9	53.9	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4	70.4	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1	89.1	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0	110.0	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4	158.4	158.4

- NOTES:
 1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



NOTE:
 THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HORIZONTAL THRUST BLOCKS

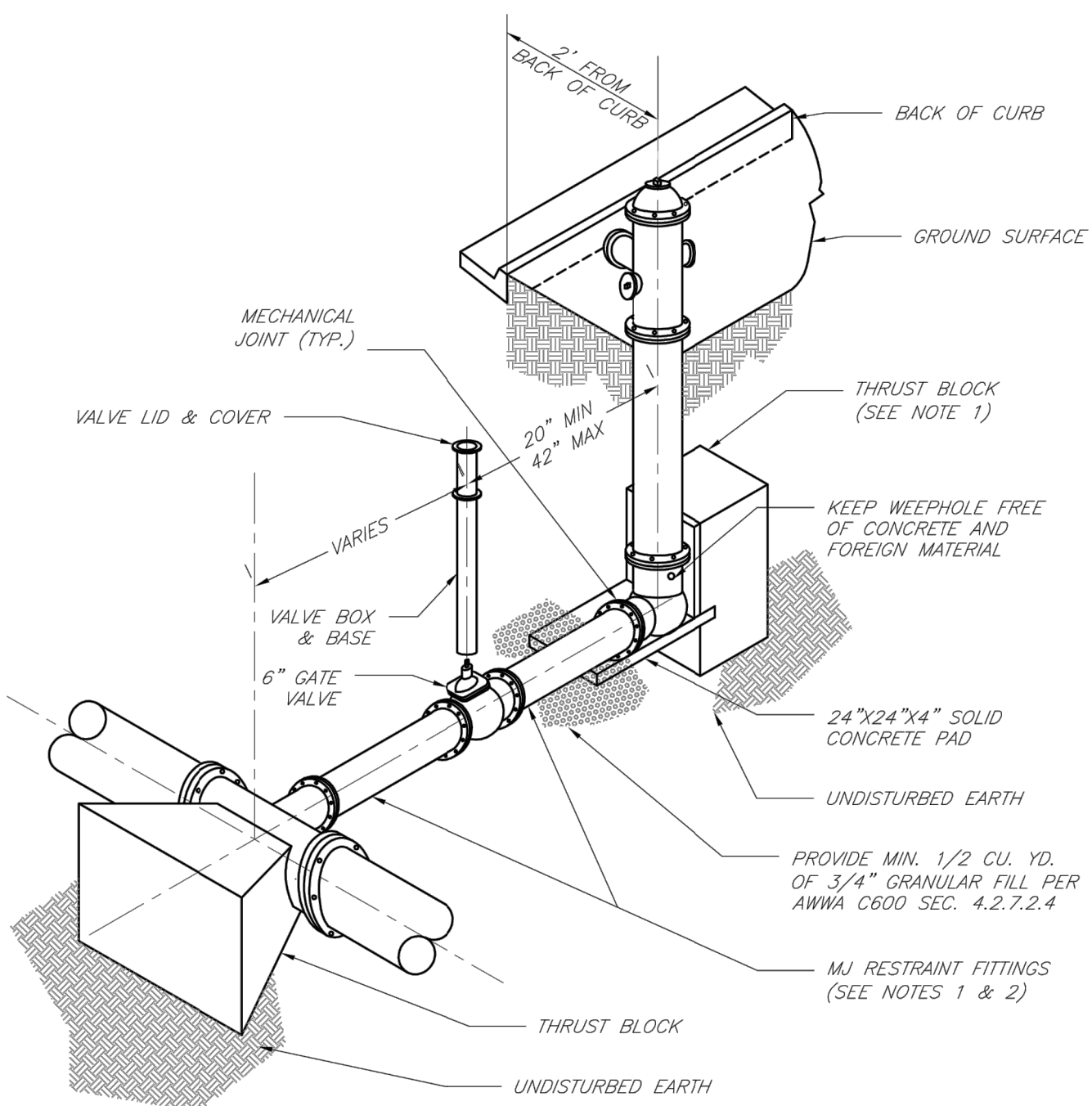
Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-1
 Rev: 1/14

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
VERTICAL THRUST BLOCKS

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-2
 Rev: 1/14

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
STRADDLE BLOCK

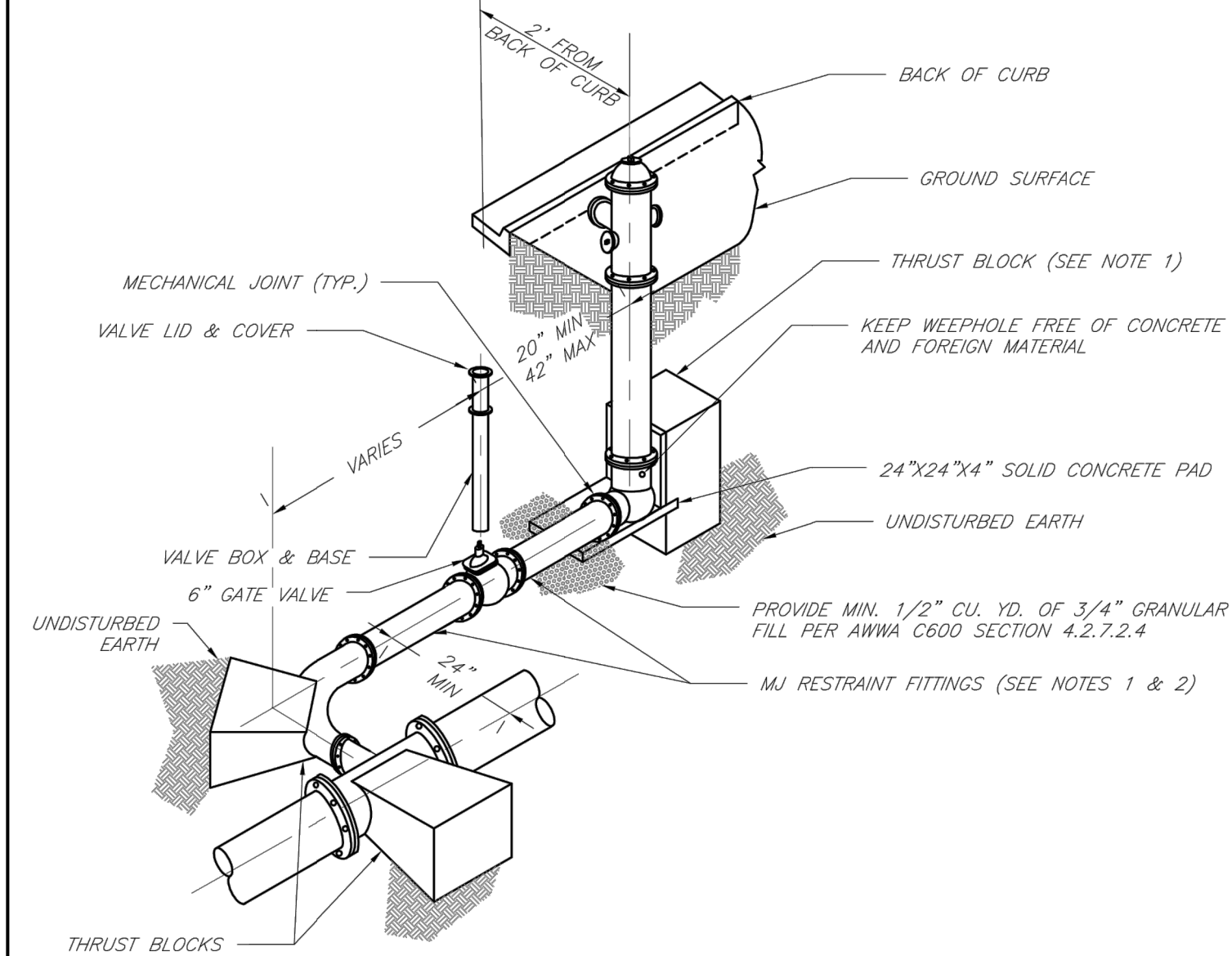
Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-3
 Rev: 1/14



- NOTES:
 1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT INSTALLATION - STRAIGHT SET

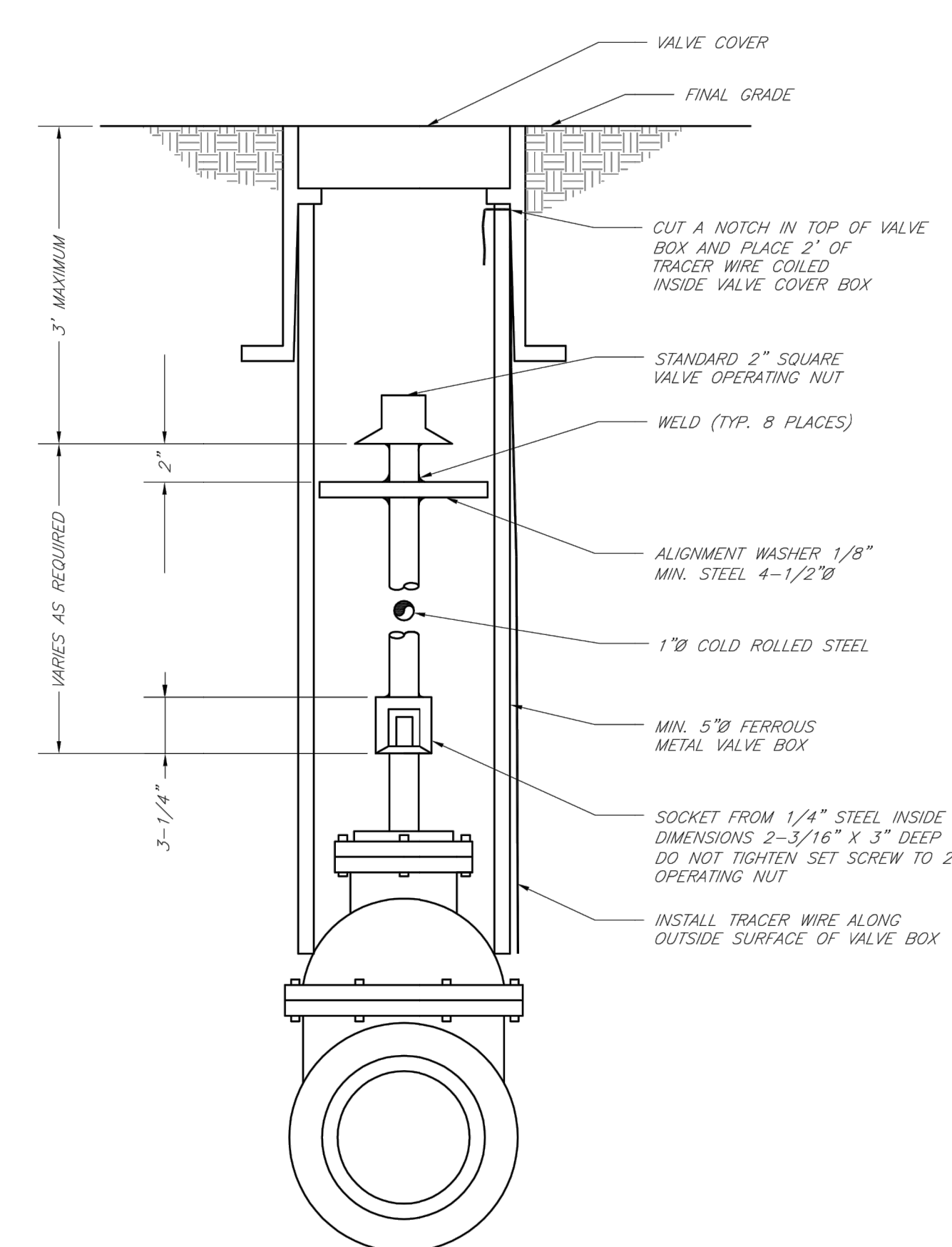
Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-7
 Rev: 1/14



- NOTES:
 1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
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 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

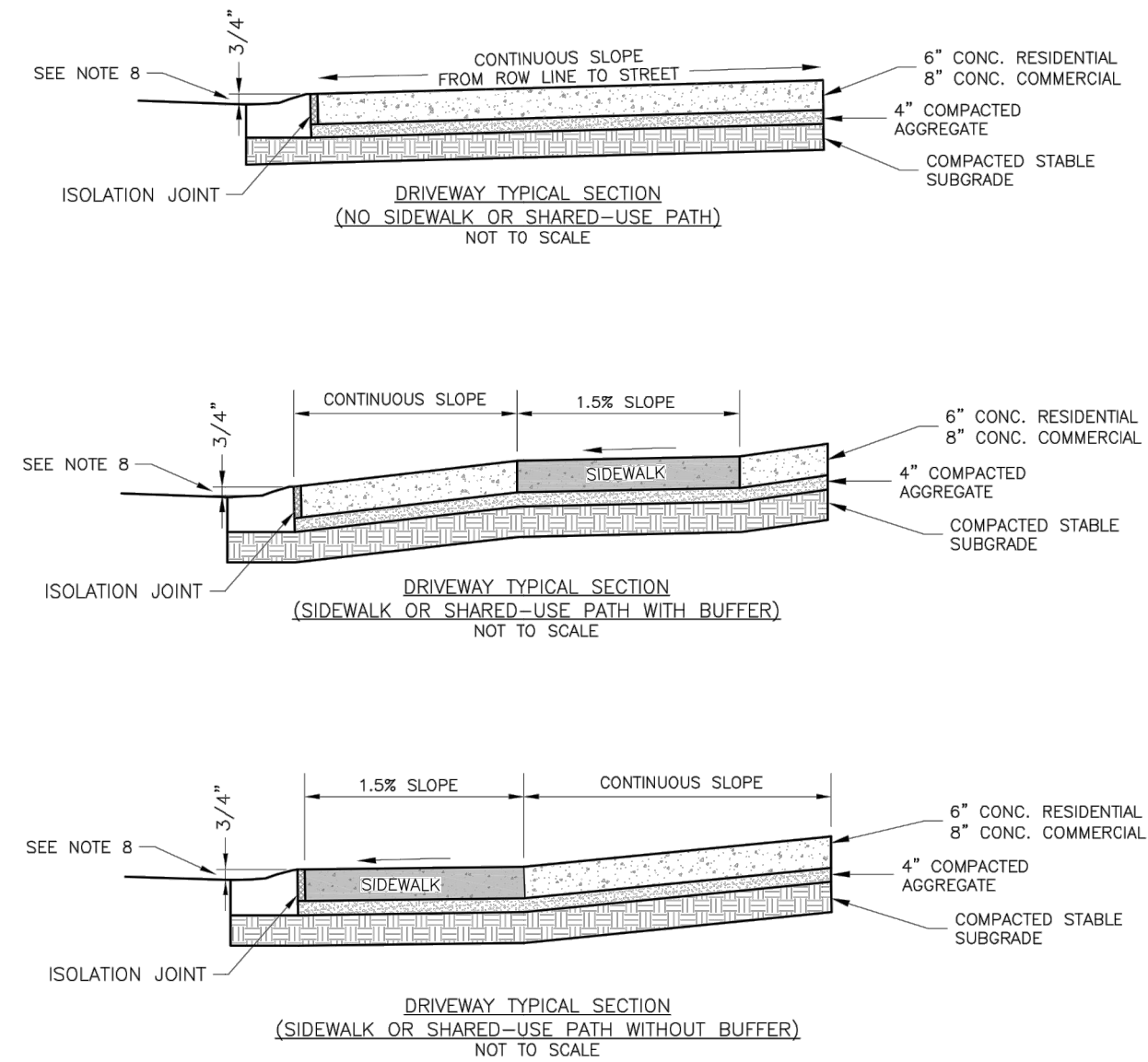
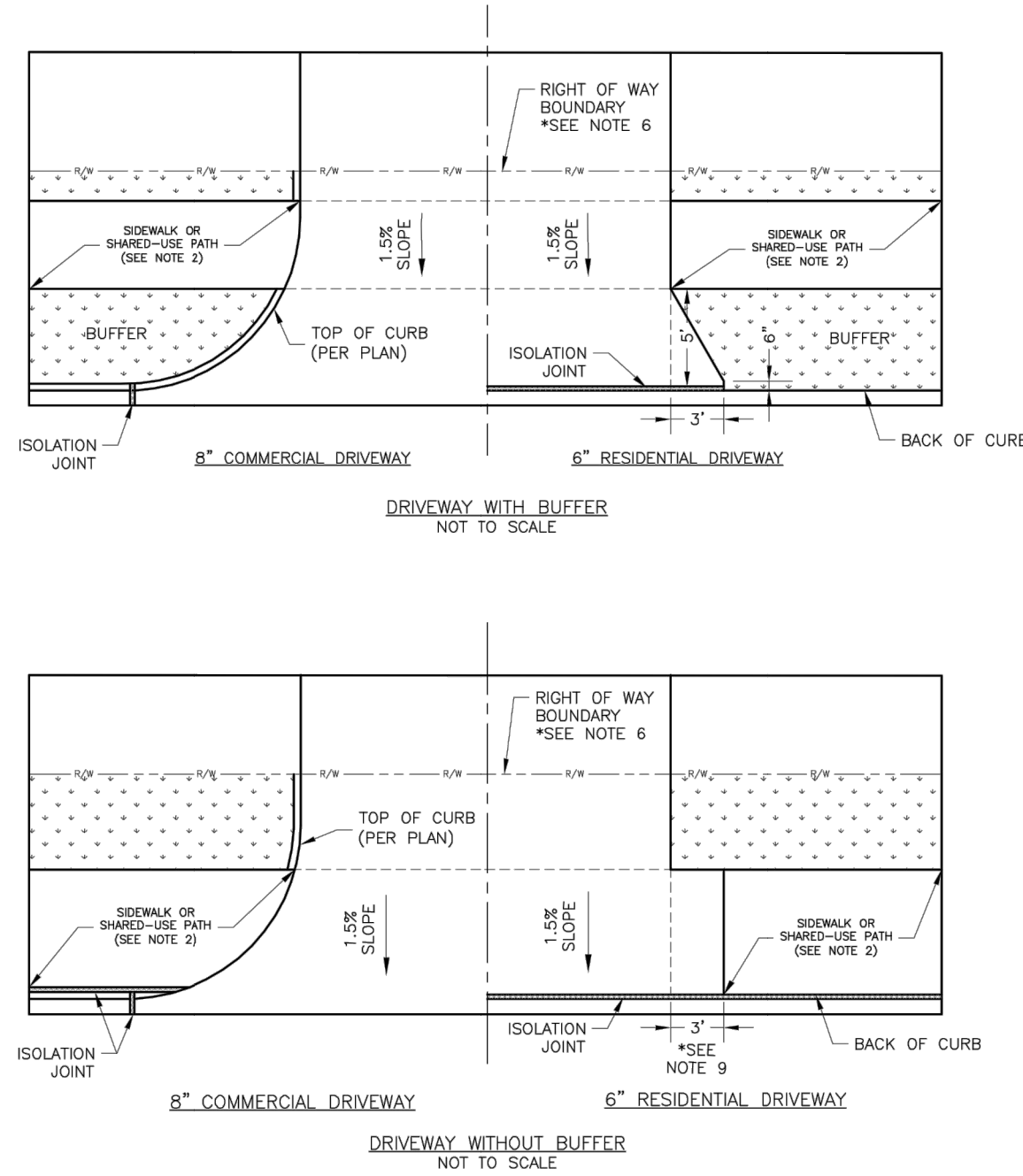
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT WITH 90 DEGREE BEND

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-8
 Rev: 1/14



LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13
 Drawn By: JN
 Checked By: DL
 FILE: WAT-9
 Rev: 1/14



- GENERAL NOTES**
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4\"/>

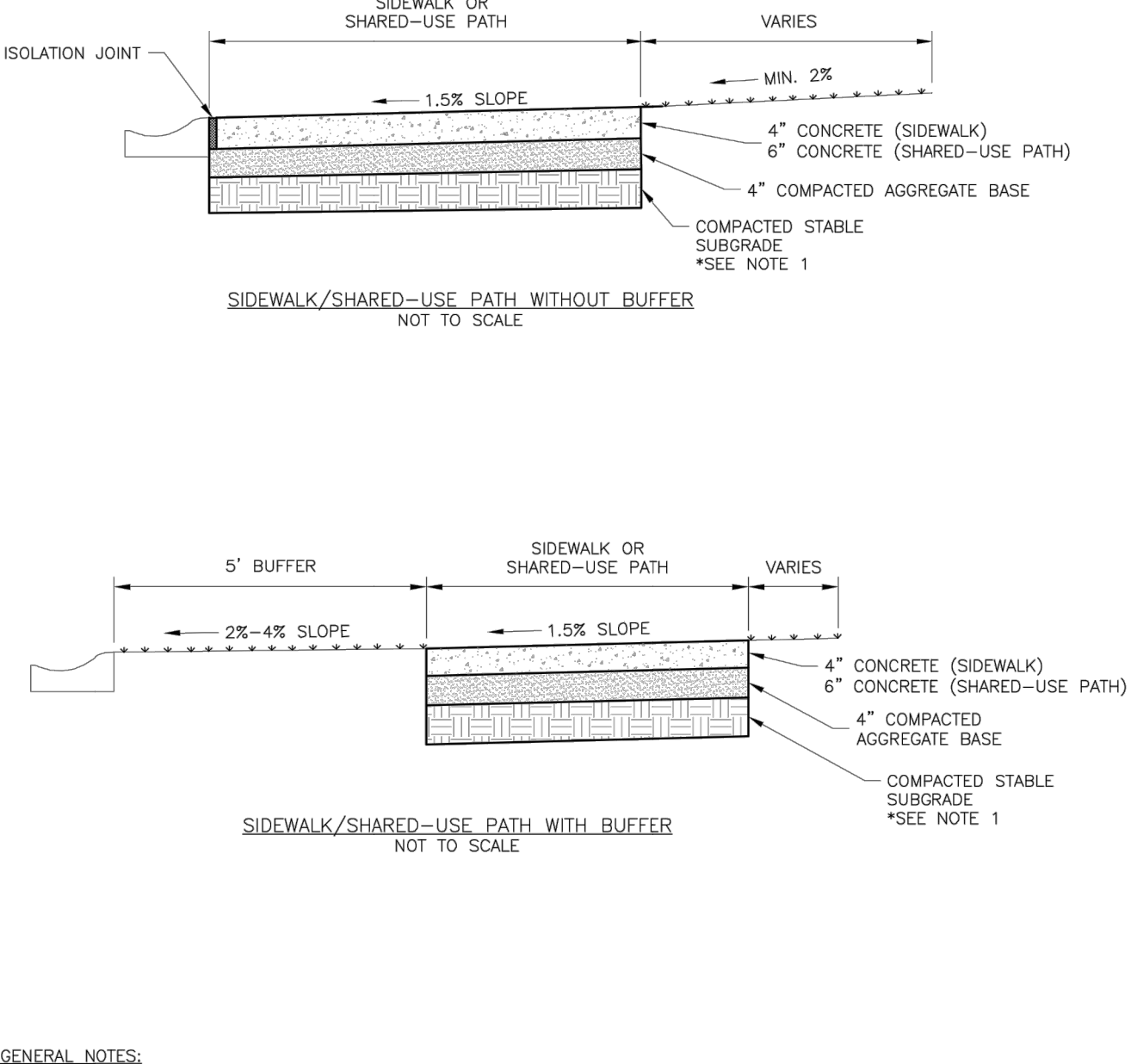
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 2201 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

Drawn By: MAF
 Checked By: DL
 Date: 04/17
 Title: GEN-1

DRIVEWAY DETAIL

GEN-1



- GENERAL NOTES:**
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4\"/>

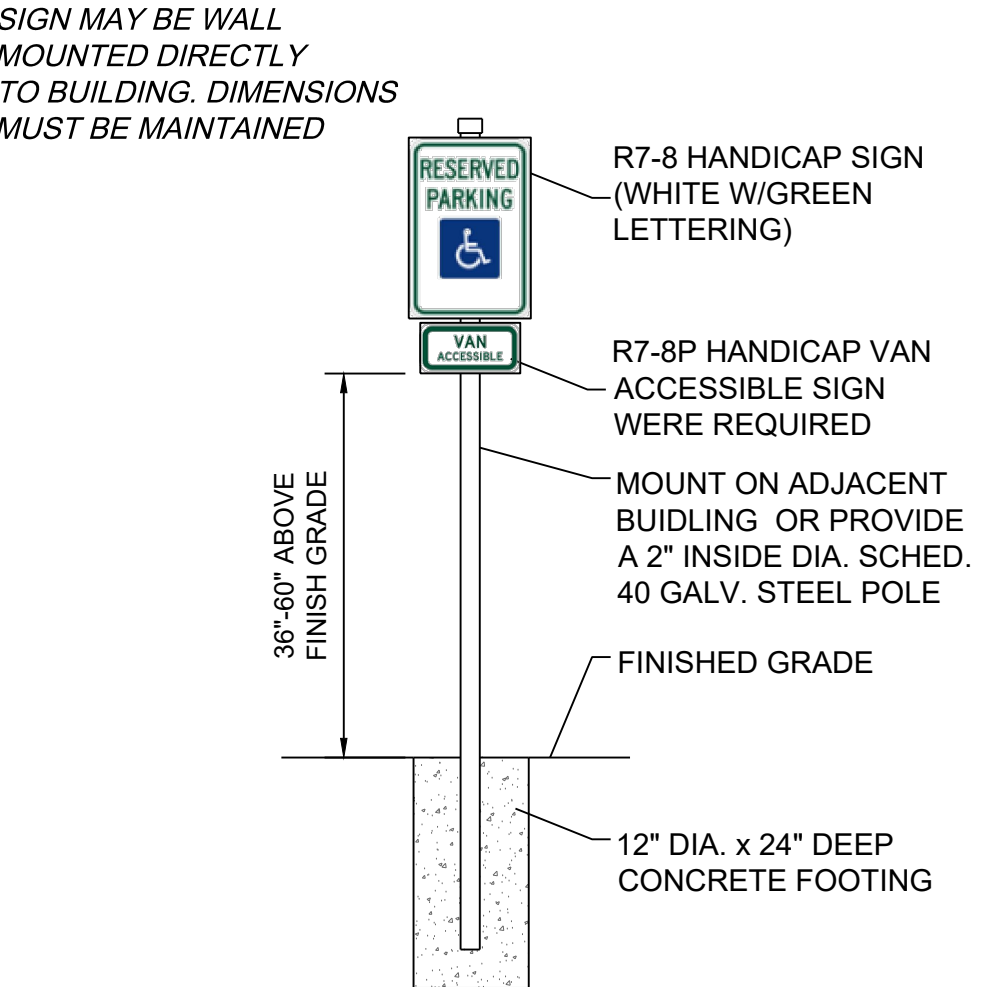
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 2201 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

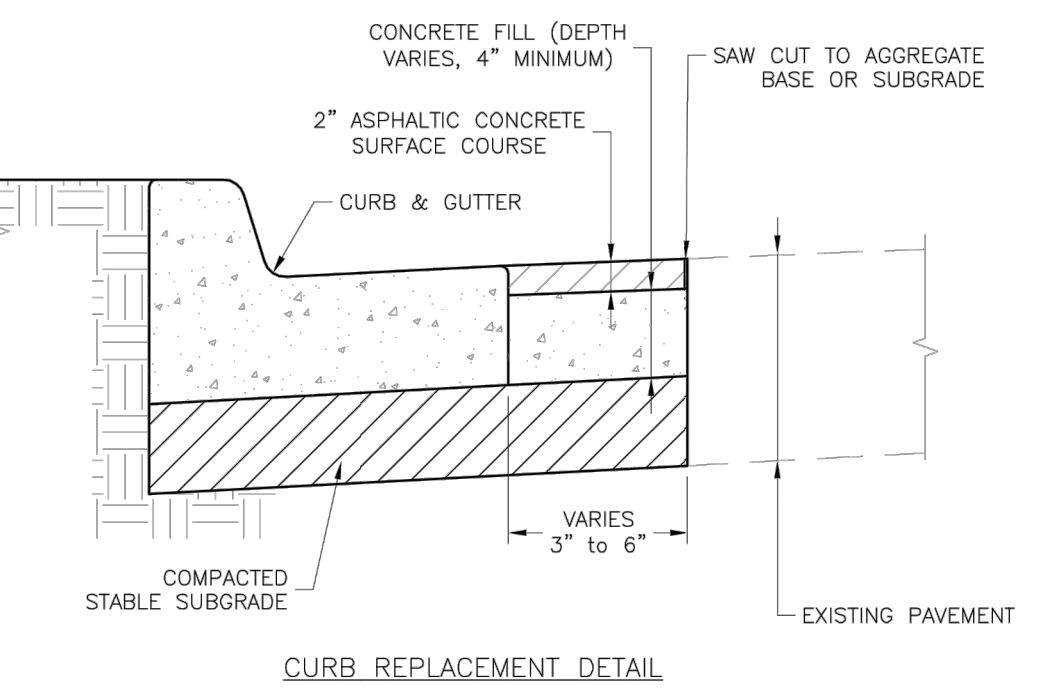
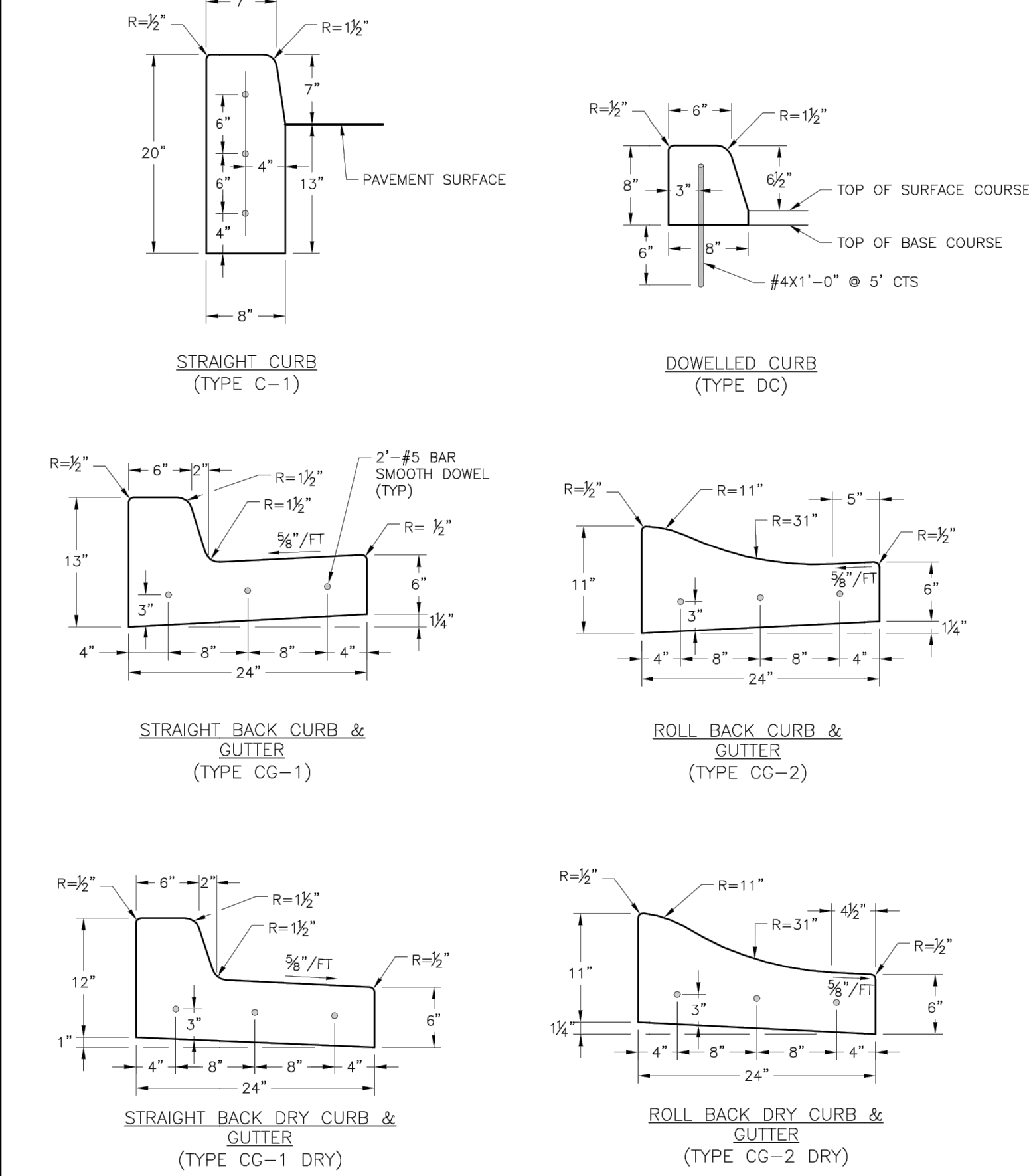
Drawn By: MAF
 Checked By: DL
 Date: 04/17
 Title: GEN-2

SIDEWALK/SHARED-USE PATH DETAIL

GEN-2



HANDICAP SIGN DETAIL
 NOT TO SCALE



- GENERAL NOTES**
- 3/4\"/>

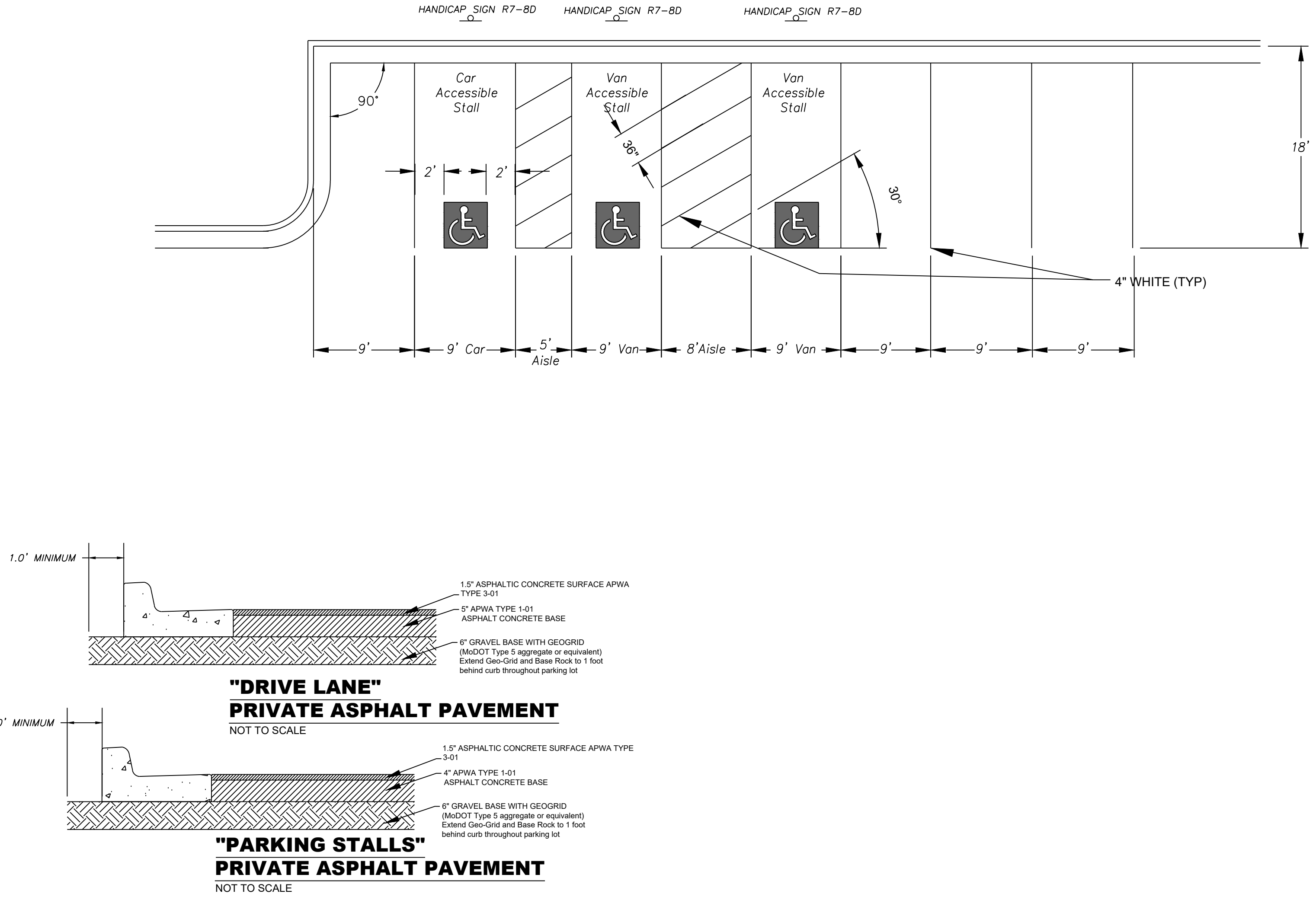
LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 2201 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

Drawn By: MAF
 Checked By: DL
 Date: 04/17
 Title: GEN-4

CURB & GUTTER DETAIL

GEN-4



ENGINEERING SOLUTIONS
 ENGINEERING & SURVEYING

50 SE 30TH STREET
 LEE'S SUMMIT, MO 64082
 P: (816) 621-9888 F: (816) 621-9849

Professional Registration
 Missouri
 Engineering 2005002185-D
 Surveying 200500319-D
 Kansas
 Engineering E-1695
 Surveying LS-218
 Oklahoma
 Engineering 62-54
 Nebraska
 Engineering CA2821

Lot 8-J, Chapel Ridge Business Park
 Section 17, Township 48 North, Range 31 West
 Lee's Summit, Jackson County, Missouri

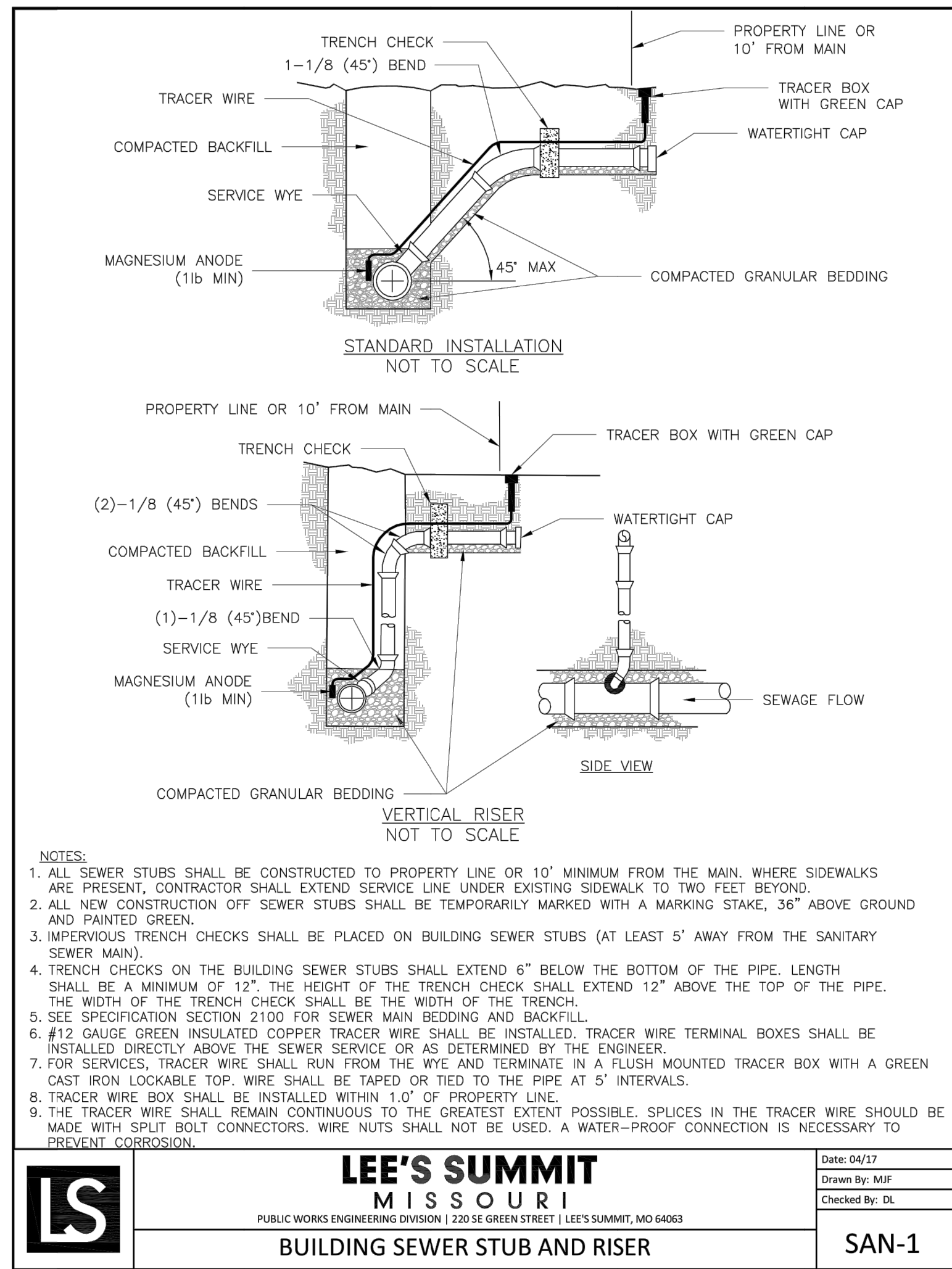
Project: GODDARD SCHOOL
 LOT 8 & CHAPEL RIDGE
 Issue Date: February 9, 2019

Construction Details
 Construction Plans for:
GODDARD SCHOOL
 Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
 MO PE 2006019708
 KS PE 19071
 OK PE 23226

REVISIONS

2/8/19	Bid Set
REV 2/12/19	
REV 5/7/19	
REV 5/30/19	

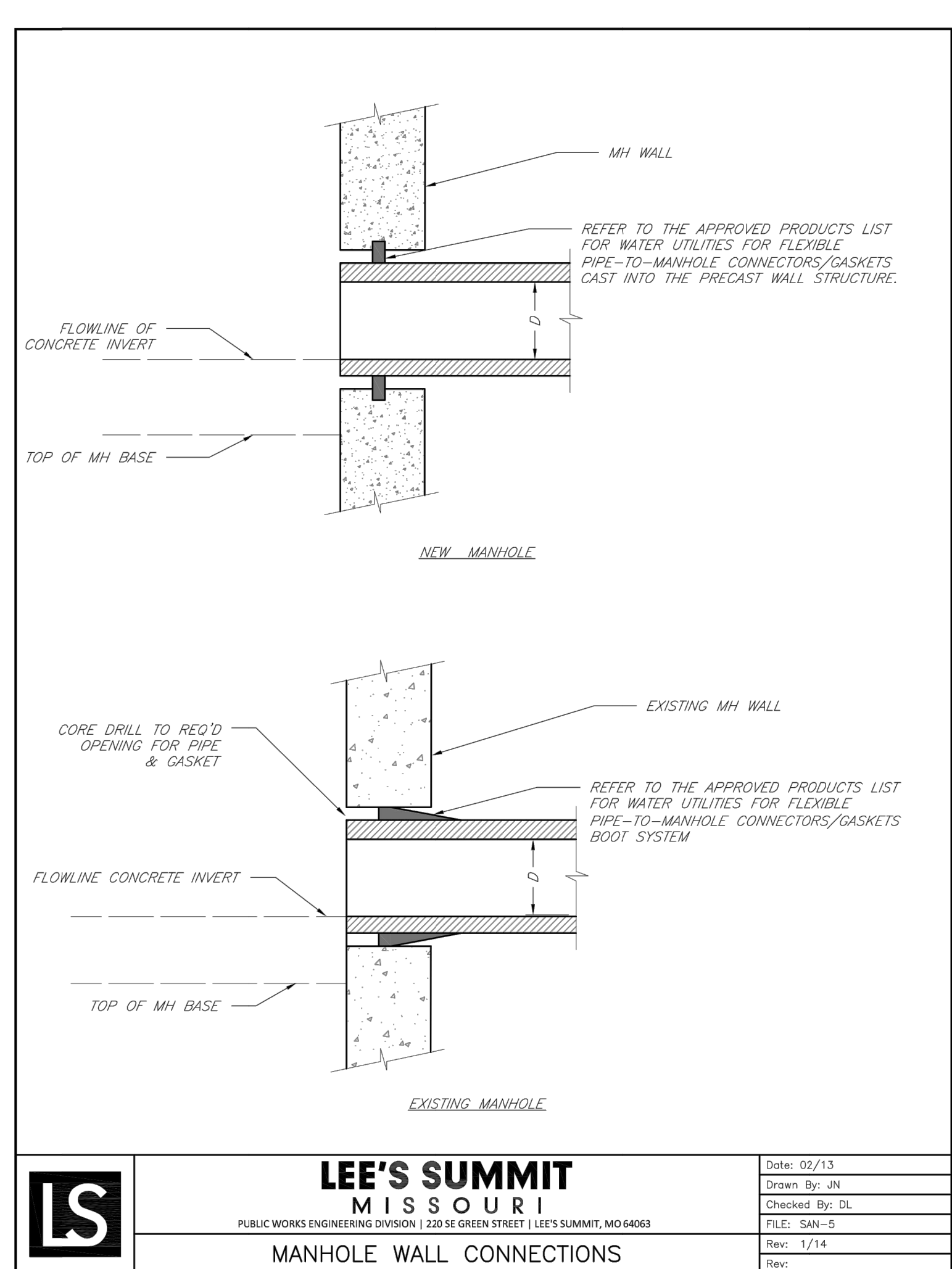


LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 04/17
Drawn By: MJF
Checked By: DL

SAN-1

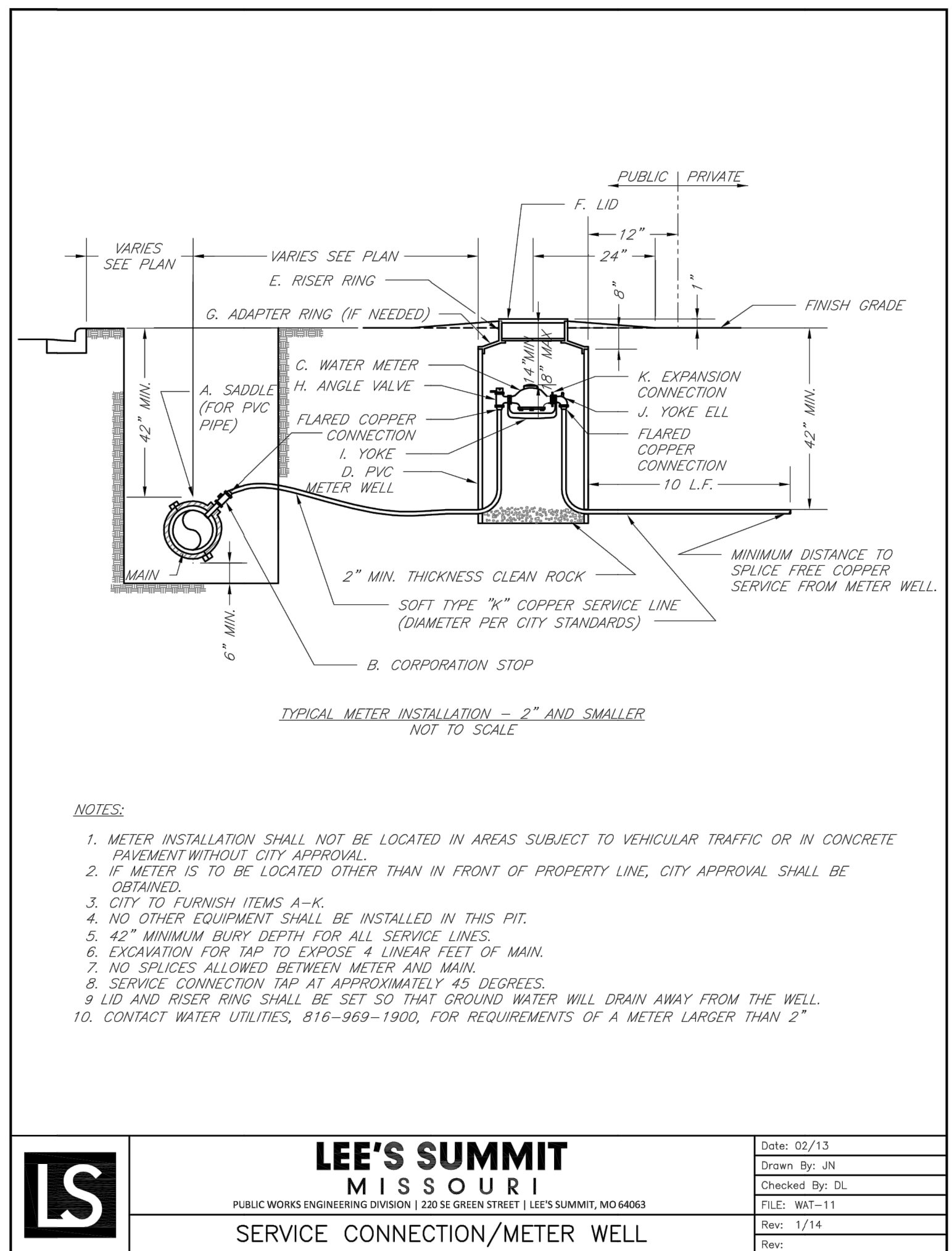
BUILDING SEWER STUB AND RISER



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-5
Rev: 1/14

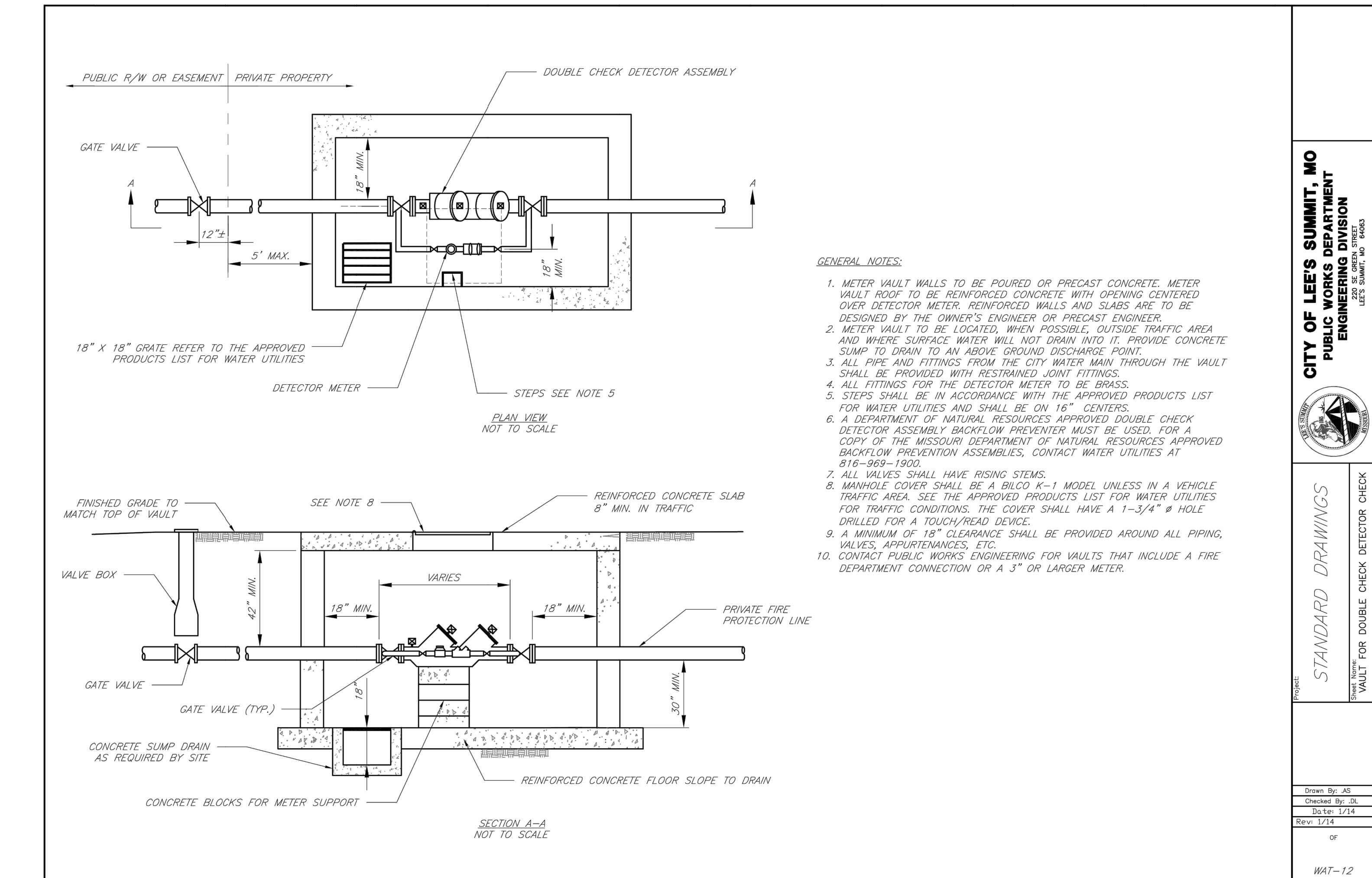
MANHOLE WALL CONNECTIONS



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-11
Rev: 1/14

SERVICE CONNECTION/METER WELL

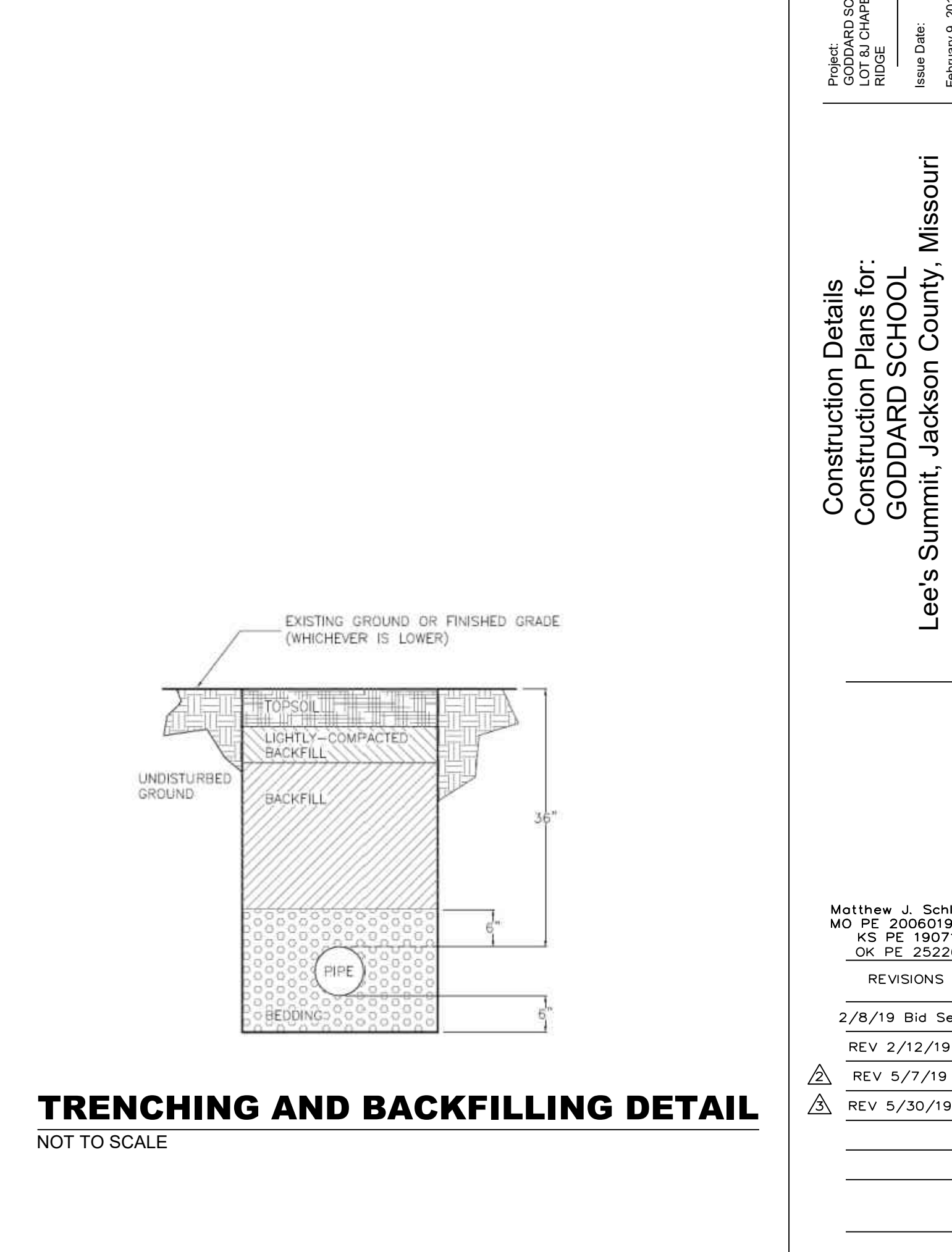


CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
LEE'S SUMMIT, MO 64063

Project: VAULT FOR DOUBLE CHECK DETECTOR CHECK

STANDARD DRAWINGS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-12
Rev: 1/14



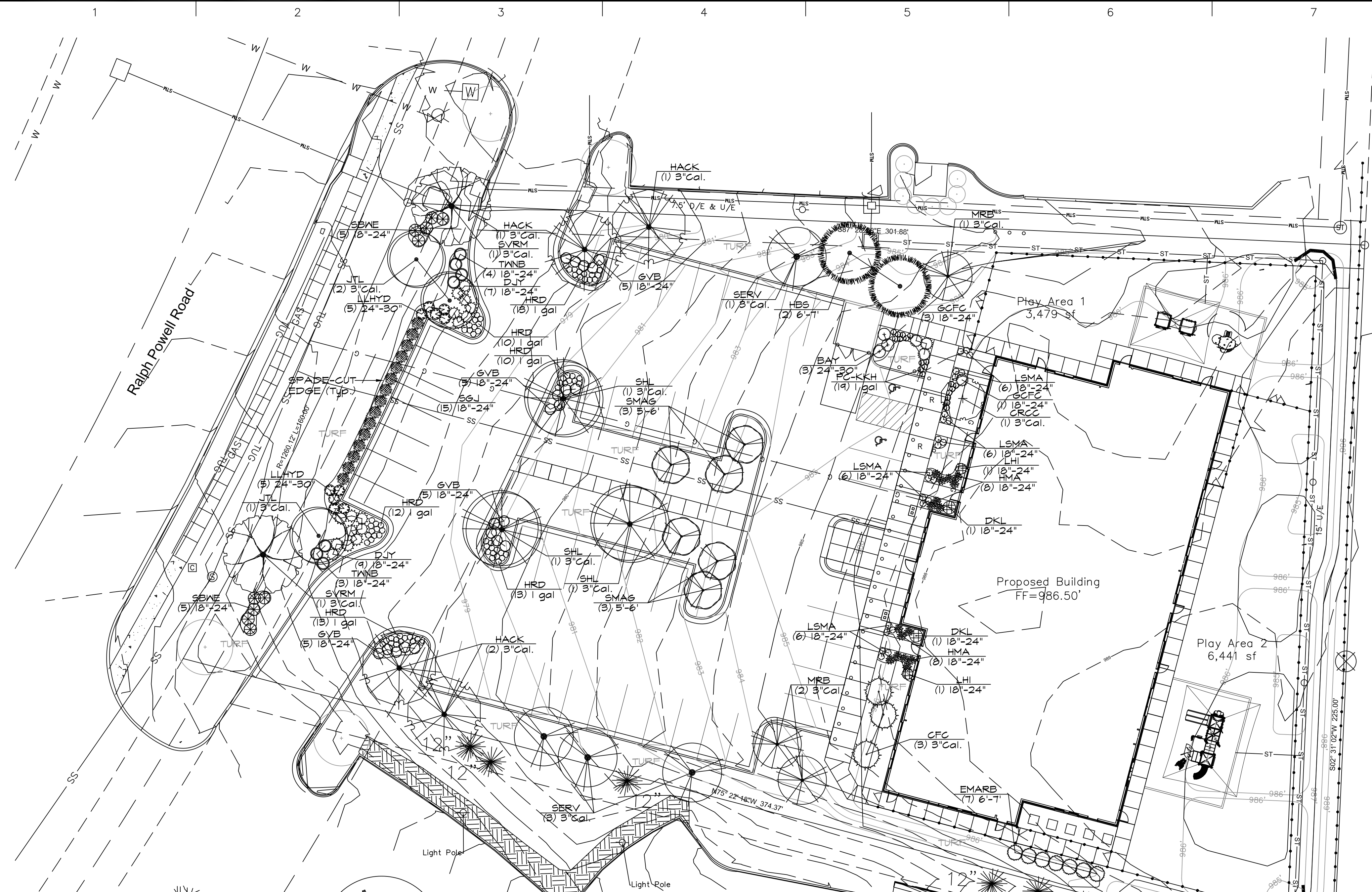
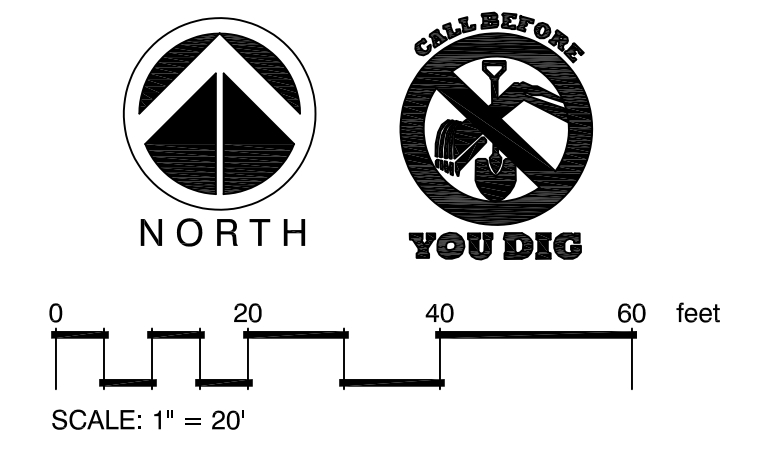
REVISIONS

2/8/19	Bid Set
2/12/19	REV
5/7/19	REV
5/30/19	REV

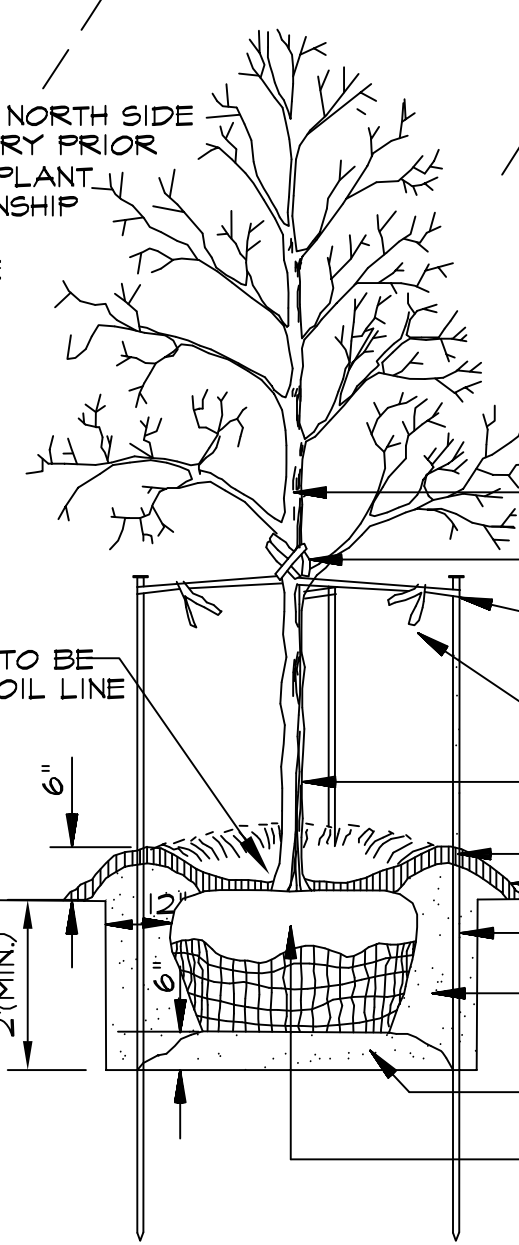
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226

WAT-12

REVISIONS	BY
5/6/14	R/M
5/23/14	R/M
5/23/14	R/M



DETERMINE/MARK NORTH SIDE OF TREE IN NURSERY PRIOR TO DIGGING AND PLANT IN SAME RELATIONSHIP TO NORTH WHEN PLANTING ON-SITE

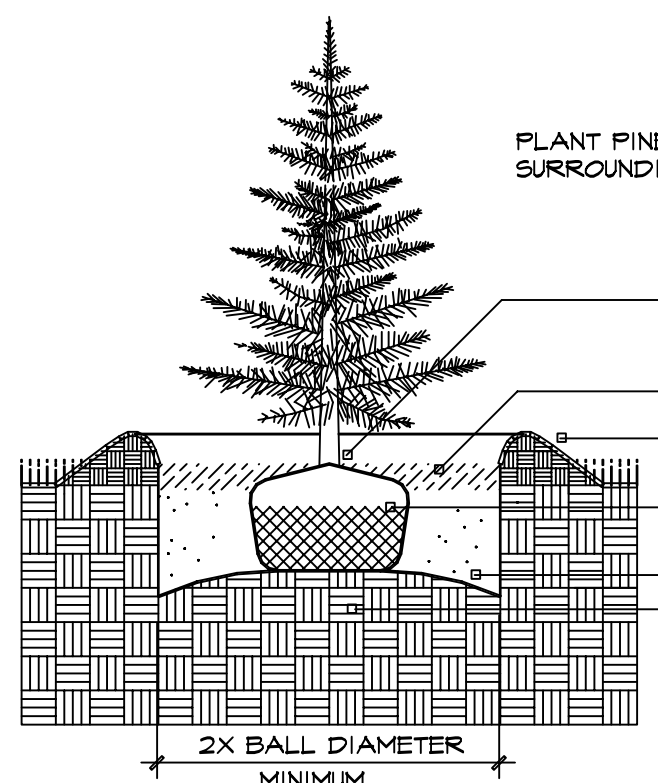


DECIDUOUS TREE PLANTING

N.T.S.

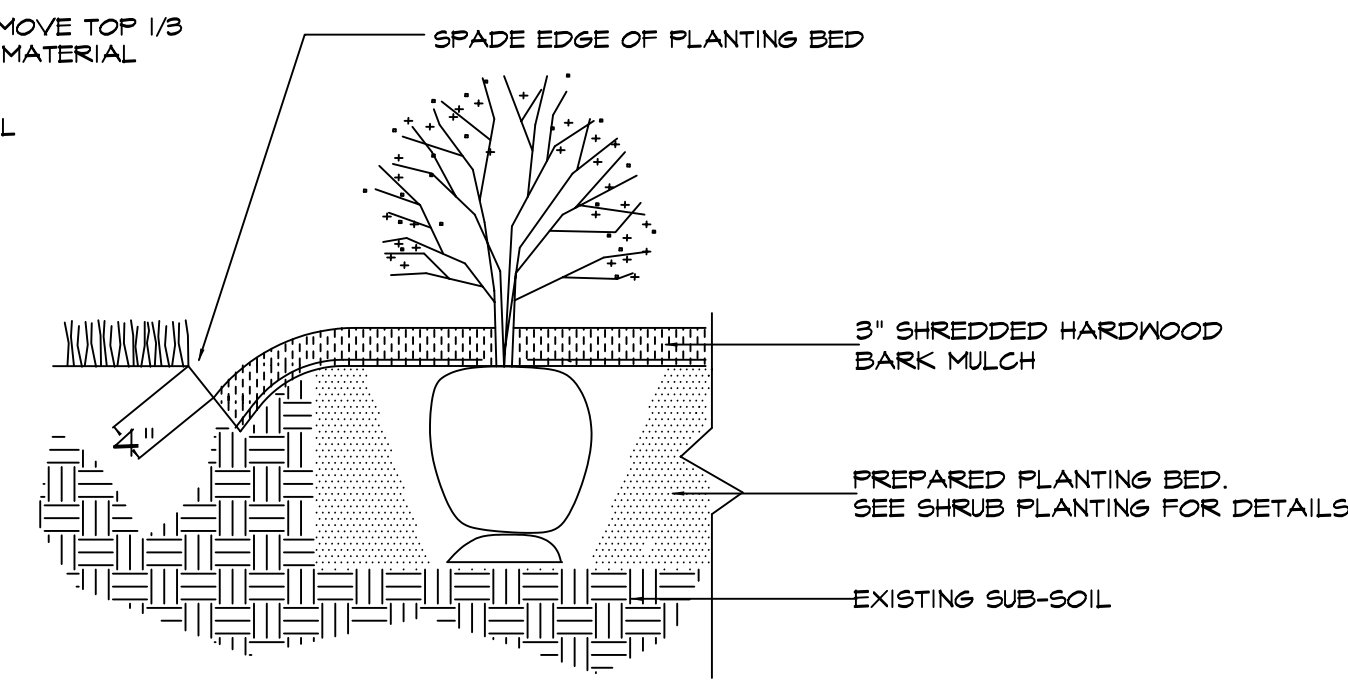
PLAN

- DO NOT CUT CENTRAL LEADER
- 6" 2-PLY RUBBER HOSE
- DOUBLE STRAND 12 GAUGE WIRE COVERED W/2-PLY RUBBER HOSE PAINTED FLUORESCENT ORANGE
- WHITE FLAGGING (TYP.)
- TREE WRAP
- 3 INCHES SHREDDED BARK MULCH
- 4 INCH DEEP SAUCER
- 6" STEEL TEE POST, SET PLUMB
- BACKFILL MIX
- UNDISTURBED SUBSOIL
- REMOVE BURLAP, WIRE & ROPE FROM TOP 1/3 OF THE BALL AFTER PLACEMENT IN PIT



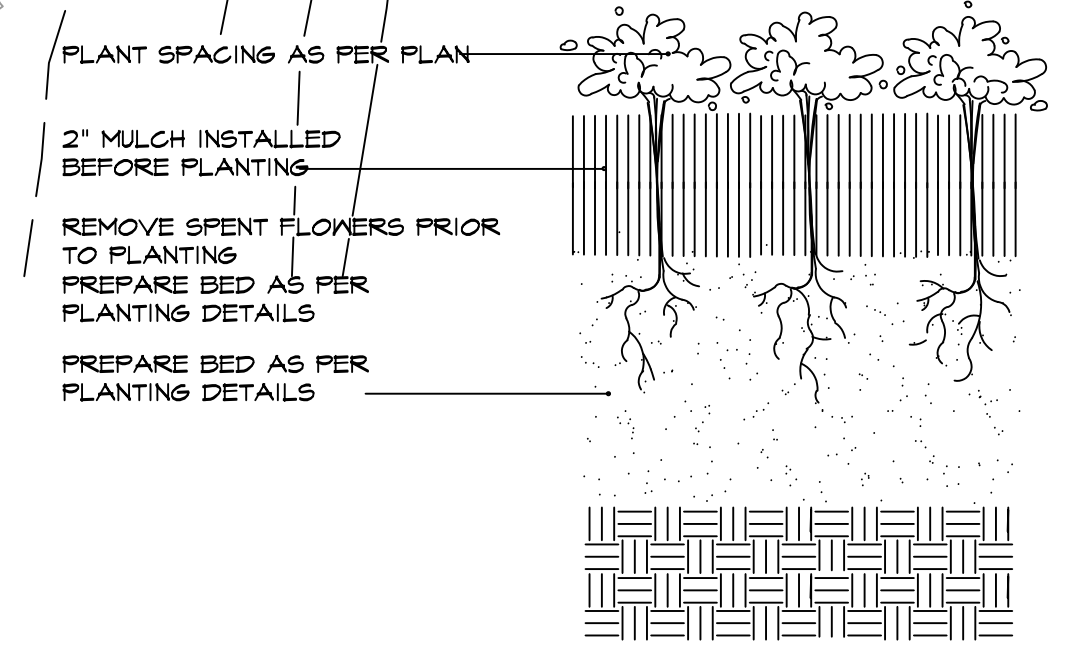
EVERGREEN TREE PLANTING

N.T.S.



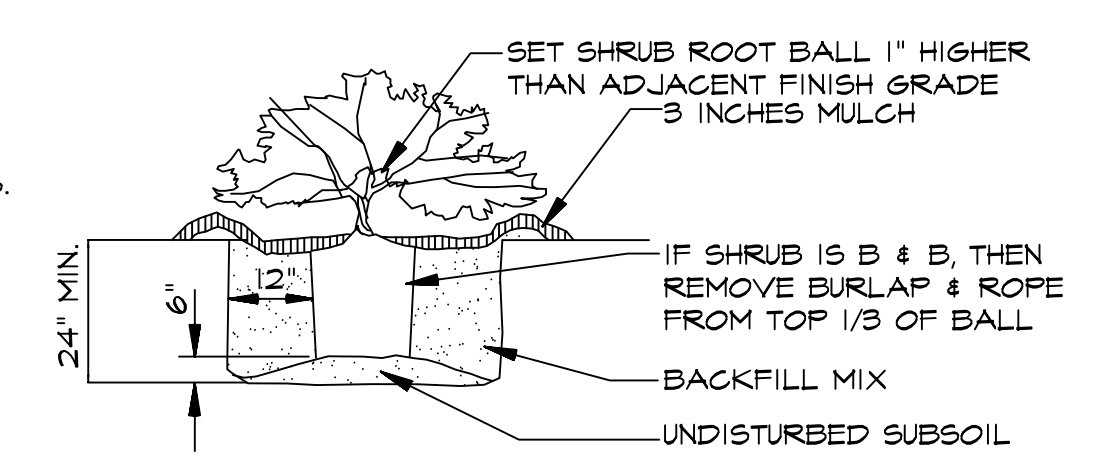
SPADE-CUT EDGE DETAIL

N.T.S.



PERENNIAL / G.C. PLANTING

N.T.S.

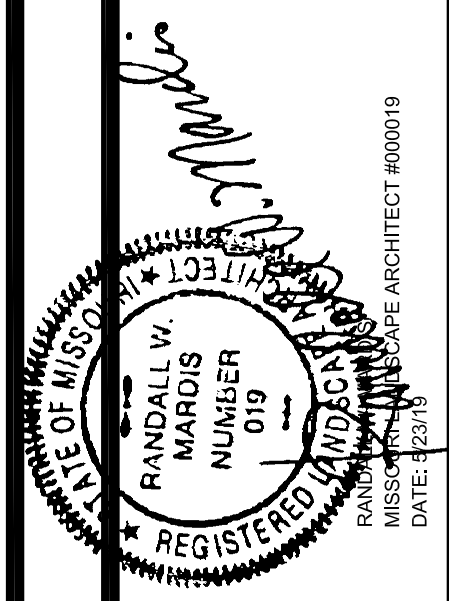


SHRUB PLANTING

N.T.S.

A Development of:
AJ BROWN CONSTRUCTION, INC.
 635 Trade Center Boulevard
 Chesterfield, MO 63005
 636-537-3636

Landscare
TECHNOLOGIES



PLANTING PLAN FOR THE PROPOSED
Goddard School
 LEE'S SUMMIT, MISSOURI

DRAWN	R. HARDS
CHECKED	R/M/E/L
DATE	5/15/14
SCALE	1"=20'-0"
JOB NO.	2014-120
SHEET	

L-1

OF TWO SHEETS

LANDSCAPE GUIDELINE SPECS:

GENERAL:

- 1.) All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.
- 2.) The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of work to be done.
- 3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of the above (Call utility location services in municipality).
- 4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
- 5.) It shall be the landscape contractor's responsibility to:
 - A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
 - B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
 - C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.
- 6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.
- 7.) Provide single-stem trees unless otherwise noted in plant schedule.
- 8.) All plant material shall comply with the recommendations and requirements of ANSI Z60.1 "American Standards for Nursery Stock".
- 9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
- 10.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.
- 11.) Shovel auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.
- 12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the landscape contractor to commence landscape installation.
- 13.) Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.
- 14.) Landscape contractor shall kill & remove all existing weeds within the project site.
- 15.) All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.
- 16.) Landscape contractor shall be in compliance with all federal, state and local laws / regulations relating to insect infestation and/or plant diseases.
- 17.) All substitutions of plant material shall be submitted to landscape architect for approval.

MULCH:

- 1.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.
- 2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mirafli fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.
- 3.) Edge all beds with spade-cut edge unless otherwise noted.

WARRANTY:

- 1.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.
- 2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.
- 3.) Only one replacement per tree or shrub shall be required at the end of the warranty period, unless loss is due to failure to comply with the warranty.
- 4.) Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment period shall commence on the date of acceptance and 100% completion.
- 5.) A written guarantee shall be provided to the owner per conditions outlined in #1 above.

MAINTENANCE:

- 1.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period of 12 months after acceptance.
- 2.) Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.
- 3.) Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 12 hours. Regardless, the landscape contractor shall be responsible for all landscape maintenance within 30 days of notification or in growth season determined to be best for until project turnover.

SIGHT TRIANGLES:

- 1.) No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as not to impede the vision between a height of thirty inches (30") and ten feet (10') above the adjacent street or paving surfaces.
- 2.) Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.

TOPSOIL:

- 1.) Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till topsoil mix to a depth of 6" minimum and grade smooth.
- 2.) Provide a soil analysis, as requested, made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.
- 3.) Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than 1"), litter or any other extraneous or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.
- 4.) Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and before application of shredded bark mulch.
- 5.) Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.

MISC. MATERIAL:

- 1.) Provide stakes and deadmen of sound, new hardwood, free of knots and defects.
- 2.) Tree wrap tape shall be 4" minimum, designed to prevent borer damage and winter freezing. Additionally, only 3-ply tying material shall be used.

TURF:

- 1.) All disturbed lawn areas to be sodded with a high quality Turf-Type fescue, freshly harvested. Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any fifty (50) square feet shall be replaced.
- 2.) Sod and fertilization operations shall occur between May 1 and June 15th or between September 1 and October 15th unless directed by others in writing AND irrigation system is operating.
- 3.) Granular or pelleted fertilizer consisting of 50% water-insoluble slow release nitrogen, phosphorous and potassium in a 12-12-12 composition.
- 4.) The turf contractor shall be responsible for protection of finished grade; restore and repair any erosion or water damage and obtain owners' approval prior to sod installation.
- 5.) Sod shall be cut at a uniform thickness of 3/4". No broken pieces or torn pieces will be accepted.
- 6.) All sod shall be placed a maximum of 24 hours after harvesting.
- 7.) Recondition existing lawn areas damaged by Contractor's operations including equipment/material storage and movement of vehicles.
- 8.) Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.

PRUNING:

- 1.) Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.
- 2.) All pruning shall comply with ANSI A300 standards.

INSURANCE:

- 1.) The landscape contractor shall submit certificates of insurance for workman's compensation and general liability.

PLANT SCHEDULE

TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
HACK	4	Common Hackberry / <i>Celtis occidentalis</i>	3"Cal.
SVRM	2	Sun Valley Red Maple / <i>Acer rubrum</i> 'Sun Valley'	3"Cal.
SHL	3	'Skyline' Locust / <i>Gleditsia triacanthos</i> 'Skyline'	3"Cal.
EVERGREEN TREES			
EMARB	QTY	COMMON NAME / BOTANICAL NAME	SIZE
EMARB	7	Emerald Arborvitae / <i>Thuja occidentalis</i> 'Emerald'	6'-7'
HBS	2	Hoopsi Blue Spruce / <i>Picea pungens</i> 'Hoopsii'	6'-7'
FLOWERING TREES			
GRCC	QTY	COMMON NAME / BOTANICAL NAME	SIZE
GRCC	1	Canada Red Chokecherry / <i>Prunus virginiana</i> 'Canada Red'	3"Cal.
CFC	3	Coralburst Crabapple / <i>Malus</i> 'Coralburst'	3"Cal.
JTL	3	Ivory Silk Japanese Tree Lilac / <i>Syringa reticulata</i> 'Ivory Silk'	3"Cal.
MIRB	3	Merlot Redbud / <i>Cercis</i> x 'Merlot'	3"Cal.
SMAG	6	Saucer Magnolia / <i>Magnolia</i> X <i>soulangiana</i>	5'-6'
SERV	4	'Autumn Brilliance' Serviceberry / <i>Amelanchier</i> X <i>grandiflora</i> 'Autumn Brilliance'	3"Cal.
SHRUBS			
DJY	QTY	COMMON NAME / BOTANICAL NAME	SIZE
DJY	16	Dense Japanese Yew / <i>Taxus cuspidata</i> 'Densiformis'	18"-24"
DKL	2	Dwarf Korean Lilac / <i>Syringa meyeri</i> 'Palibin'	18"-24"
GCFC	4	Golden Charm False Cypress / <i>Chamaecyparis pisifera filifera</i> 'Golden Charm'	18"-24"
GVB	20	Green Velvet Boxwood / <i>Buxus</i> 'Green Velvet'	18"-24"
HMA	16	Hetz Midget Arborvitae / <i>Thuja occidentalis</i> 'Hetz Midget'	18"-24"
LLHYD	10	Little Lime Hydrangea / <i>Hydrangea paniculata</i> 'Little Lime'	24"-30"
LSMA	24	Low Scape Mound Chokeberry / <i>Aronia melanocarpa</i> 'Low Scape Mound'	18"-24"
LHI	2	Little Henry Sweetspire / <i>Itea virginica</i> 'Little Henry' TM	18"-24"
BAY	3	Northern Bayberry / <i>Myrica pensylvanica</i>	24"-30"
SGJ	15	Sea Green Juniper / <i>Juniperus chinensis</i> 'Sea Green'	18"-24"
SBWE	10	Sonic Bloom Weigela / <i>Weigela florida</i> 'Sonic Bloom'	18"-24"
TWNB	7	Tiny Wine Ninebark / <i>Physocarpus opulifolius</i> 'Tiny Wine'	18"-24"
ANNUALS/PERENNIALS			
HRD	QTY	COMMON NAME / BOTANICAL NAME	SIZE
HRD	71	Happy Returns Daylily / <i>Hemerocallis hybrid</i> 'Happy Returns'	1 gal
PC-KKH	19	Kim's Knee High Purple Coneflower / <i>Echinacea purpurea</i> 'Kim's Knee High' TM	1 gal

LANDSCAPE REQUIREMENTS:

ONE (1) STREET TREE PER 30' OF FRONTAGE + ONE (1) SHRUB PER 20' OF FRONTAGE
 160.00 LF FRONTAGE; THEREFORE, SIX (6) TREES + EIGHT (8) SHRUBS ARE REQUIRED / FIVE (5) NEW TREES AND ONE (1) EXISTING TREE + 10 SHRUBS ARE PROVIDED

OPEN YARD: 63,014.58 SQ. FT. OF PROPERTY+10,964 SQ. FT. BUILDING = 52,050.58 -- 5,000 SQ. FT. = 10.41 X 2 = (21) SHRUBS ARE REQUIRED / 81 SHRUBS ARE PROVIDED. IN ADDITION, ELEVEN (11) TREES ARE REQUIRED / 14 TREES ARE PROVIDED

GREENSPACE AREA: 4,230.71 SQ. FT.

SCREENING OF PARKING LOT: TWELVE (12) SHRUBS @ 18" MIN. PER FORTY (40) LIN. OF FRONTAGE; 160 LIN. FT. FRONTAGE, THEREFORE, FORTY EIGHT (48) SHRUBS ARE REQUIRED / FORTY EIGHT (48) SHRUBS ARE PROVIDED

MINIMUM PLANT SIZES: DECIDUOUS TREES: 3" CALIPER MINIMUM
 EVERGREEN TREES: 6' HEIGHT
 MEDIUM SHRUBS: 18"-24"
 LARGE SHRUBS: 24"-30"
 GROUNDCOVER: 2.5" PLUGS

REVISIONS	BY
5/6/19	RNM
5/23/19	RNM

Landscape TECHNOLOGIES

ST. JOSEPH, MISSOURI
 1001 W. 13TH ST. SUITE 100
 ST. JOSEPH, MISSOURI 64504
 TEL: 816.233.1234
 FAX: 816.233.1235
 MISSOURI ARCHITECT REG. NO. 000019
 MISSOURI LANDSCAPE ARCHITECT REG. NO. 000002
 DATE: 12/21/18

PLANTING PLAN FOR THE PROPOSED
Goddard School
 LEE'S SUMMIT, MISSOURI

DRAWN R. HARDS
CHECKED RNM/EL
DATE 5/15/19
SCALE N/A
JOB No. 2019-120
SHEET L-2
OF TWO SHEETS

A Development of:
AJ BROWN CONSTRUCTION, INC.
 635 Trade Center Boulevard
 Chesterfield, MO 63005
 636-537-3636