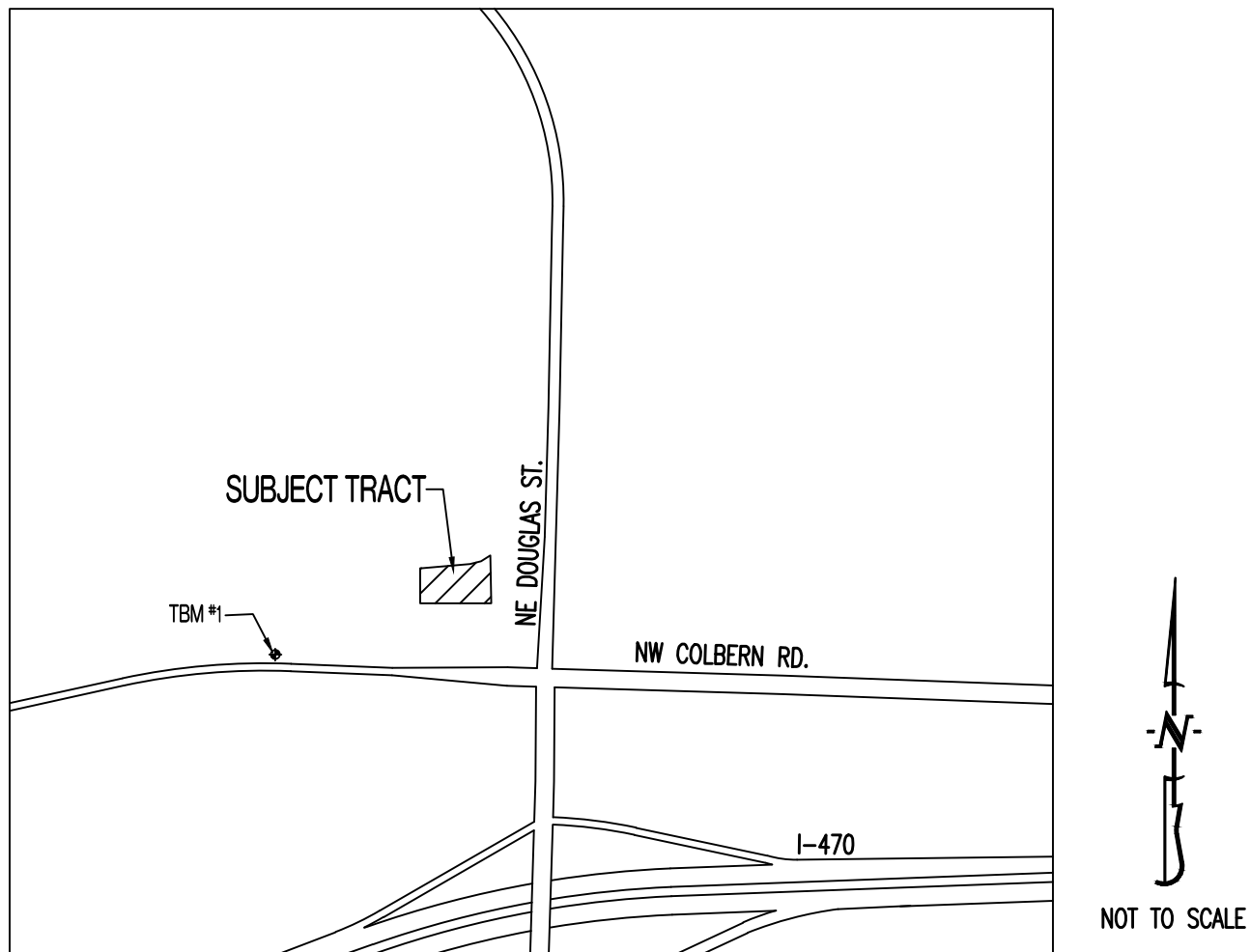


THE VILLAGE AT DISCOVERY PARK

LOT 4

LOCATION MAP



PROJECT BENCHMARK:

TBM #1 – CONTROL POINT #50 SET BY OLSSON. 1/2" IMBEDDED CAP ON NORTH SIDE OF NW COLBERN RD. LOCATED AT 1ST FIELD ENTRANCE.
NORTHING = 1012389.819
EASTING = 2822108.784
ELEVATION = 990.810
REFER TO "PRIVATE SITE DEVELOPMENT PLANS FOR THE VILLAGE AT DISCOVERY PARK ZONE 1" PLANS BY OLSSON DATED 10/18/2023 FOR MORE INFORMATION.

FLOOD PLAIN STATEMENT:

THIS LOT IS LOCATED IN ZONE X UNSHADED – AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL CHANCE FLOOD AS SHOWN ON THE FEMA F.I.R.M. PANEL #290950C0409G, DATED JANUARY 20, 2017.

LEGAL DESCRIPTION:

VILLAGE AT DISCOVERY PARK, LOT 4. A SUBDIVISION IN JACKSON COUNTY, LEE'S SUMMIT, MISSOURI.

UTILITY COMPANIES:

LOCATES:

MISSOURI ONE CALL INC.
1022 B NORTHEAST DRIVE
JEFFERSON CITY, MO 65109
1-800-344-7483



ELECTRIC:

EVERGY
816-524-3223

TELEPHONE:

AT&T
800-286-8313

NATURAL GAS:

SPIRE
314-342-0500

CABLE TELEVISION:

SPECTRUM
877-772-2253

WATER/SANITARY SEWER:

CITY OF LEE'S SUMMIT
WATER UTILITIES DEPARTMENT
1200 S HAMLEN RD
LEE'S SUMMIT, MO 64081
816-969-1900

FIBER:

GOOGLE FIBER
877-454-6959

GENERAL NOTES:

ALL STREET, STORM DRAIN, AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT "DESIGN AND CONSTRUCTION MANUAL" (CURRENT EDITION).

ANY CITY DETAILS SHOWN ON THIS SET OF PLANS ARE FOR REFERENCE ONLY. CONTRACTOR TO HAVE A COPY OF THE CITY'S LATEST EDITION OF SPECIFICATIONS AND STANDARDS FOR ALL STREET, STORM, AND SANITARY CONSTRUCTION ON SITE AT ALL TIMES DURING CONSTRUCTION. REFER TO <https://cityofls.net/development-services/design/design-criteria/design-construction-manual-infrastructure>

CONTRACTOR WILL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF TRAFFIC CONTROL DEVICES NECESSARY TO COMPLETE THEIR PORTION OF WORK. THE DEVICES AND METHODS EMPLOYED WILL COMPLY WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL CONCRETE MATERIALS SHALL CONFORM TO KCMMB STANDARDS AND SPECIFICATIONS.

THIS PLAT CONTAINS APPROXIMATELY 1.49 ACRES.

THIS TRACT IS ZONED PMIX.

THE STORM SEWER NETWORK DESIGN FOR THIS PROJECT IS BASED ON OPEN CHANNEL FLOW; THEREFORE THE HYDRAULIC GRADE LINE IS AT OR LESS THAN THE CROWN OF THE PIPE.

EXISTING UTILITIES SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE LOCATES (HORIZONTAL AND VERTICAL) PRIOR TO ANY EXCAVATION.

ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.

A GEOTECHNICAL EVALUATION OF THE SUBSURFACE SOIL, GROUNDWATER CONDITIONS, AND A SLOPE STABILITY ANALYSIS HAS NOT BEEN PERFORMED BY THIS ENGINEER. THE OWNER SHALL SATISFY THEMSELVES OF ALL GEOTECHNICAL CONDITIONS PRIOR TO ANY CONSTRUCTION.

ALL LAND DISTURBANCE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT CODE OF ORDINANCES. REFER TO STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR NARRATIVE REPORT AND BMP DESCRIPTIONS AND DETAILS.

ALL SLOPES ARE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

IT IS THE INTENT OF THESE PLANS TO COMPLY WITH THE REQUIREMENTS OF THE MOENR CLEAN WATER COMMISSION.

ALL DISTURBED AREAS WITHIN THE "LIMITS OF DISTURBANCE" SHALL BE FINE GRADED, SEEDED, AND MULCHED.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES AND REMOVING THEM ONCE THE SITE IS STABILIZED.

ALL HDPE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAIL FOR PIPE BEDDING REQUIREMENTS.

IN ORDER TO TERMINATE A STATE OPERATING PERMIT THE MISSOURI DEPARTMENT OF NATURAL RESOURCES (MDNR) REQUIRES THAT THE PERMITTEE SUBMIT A COMPLETED FORM H (INCLUDED WITH THE APPROVAL PERMIT) TO THE MDNR. A PERMIT IS ELIGIBLE FOR TERMINATION WHEN EITHER PERENNIAL VEGETATION, PAVEMENT, BUILDINGS, OR STRUCTURES USING PERMANENT MATERIALS COVER ALL AREAS THAT HAVE BEEN DISTURBED. VEGETATIVE COVER SHALL BE AT LEAST 70% OF FULLY ESTABLISHED PLANT DENSITY OVER 100% OF THE DISTURBED AREA. A COPY OF FORM H SHOULD BE SUBMITTED TO THE CITY AT WHICH TIME THE CITY WILL REMOVE THE PROJECT FROM ITS INSPECTION SCHEDULE.

LAND DISTURBANCE SITES SHOULD BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 48 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN A 2-YEAR, 24-HOUR STORM HAS CEASED DURING A NORMAL WORK DAY OR WITHIN 72 HOURS IF THE RAIN EVENT CEASES DURING A NON-WORK DAY SUCH AS A WEEKEND OR HOLIDAY. ANY DEFICIENCIES SHALL BE NOTED IN A WEEKLY REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE REPORT. CONTRACTORS ARE REQUIRED TO SUBMIT TO CITY INSPECTION STAFF COPIES OF THEIR INSPECTION REPORTS REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON A MONTHLY BASIS IF REQUESTED.

NO OIL AND GAS WELLS EXIST ON THIS TRACT ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES OIL AND GAS PERMIT DATABASE.

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

TOTAL DISTURBED AREA ON SITE = 1.82 AC.

MISSOURI DNR LAND DISTURBANCE PERMIT NUMBER MORA23630.

DEVELOPER :

DISCOVERY PARK LEE'S SUMMIT, LLC.
4220 PHILLIPS FARM RD.
COLUMBIA, MO 65201
573-615-2252

SHEET LIST TABLE

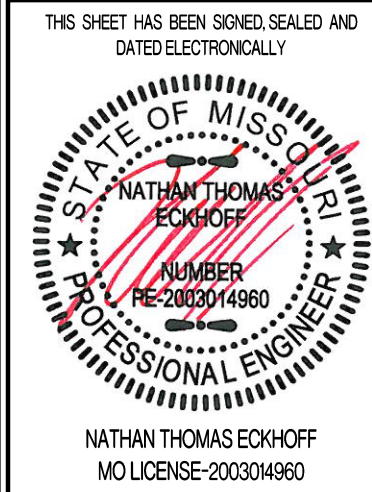
SHEET NUMBER	SHEET TITLE	ORIGINAL
CE 1.0	COVER SHEET	X
CE 1.1	CIVIL SPECIFICATIONS	X
CE 2.1	EROSION CONTROL PLAN	X
CE 2.2	EROSION CONTROL DETAILS	X
CE 3.0	OVERALL GRADING PLAN	X
CE 3.1	GRADING PLAN SHEET 1	X
CE 3.2	GRADING PLAN SHEET 2	X
CE 3.3	GRADING PLAN SHEET 3	X
CE 3.4	GRADING PLAN SHEET 4	X
CE 4.1	UTILITY PLAN	X
CE 5.1	STORM PROFILE & DETAILS	X
CE 5.2	STORM DETAILS CONTD	X
CE 5.3	25-YR STORM CALCULATIONS	X
CE 5.4	100-YR STORM CALCULATIONS	X
CE 6.1	SITE PLAN	X
CE 7.1	DETAILS SHEET 1	X
CE 7.2	DETAILS SHEET 2	X
CE 7.3	DETAILS SHEET 3	X
CE 7.4	LEE'S SUMMIT DETAILS SHEET 1	X
CE 7.5	LEE'S SUMMIT DETAILS SHEET 2	X

LEGEND OF SYMBOLS:

---	EXISTING CURB	FF=XXXX	FINISHED FLOOR OF STRUCTURE
=====	PROPOSED CURB	XXXX.XX TC	PROPOSED TOP OF CURB ELEVATION
[Pattern]	RIP RAP	XXXX.XX TP	PROPOSED TOP OF PAVEMENT ELEVATION
[Symbol]	EXISTING STRUCTURE	XXXX.XX FG	PROPOSED FINISHED GRADE ELEVATION
[Symbol]	EXISTING TREELINE	XXXX.XX TW	PROPOSED TOP OF WALL
~~~~~	PROPOSED TREELINE	XX	LOT NUMBER
—○—	EDGE OF WATERWAY	X	STORM SEWER STRUCTURE LABEL
— W —	EXISTING WATERLINE	X	SANITARY SEWER STRUCTURE LABEL
— W —	PROPOSED WATERLINE	HP.	HIGH POINT
— G —	EXISTING GAS LINE	LP.	LOW POINT
— G —	PROPOSED GAS LINE	[Symbol]	EXISTING SIGNS
— T —	EXISTING TELEPHONE	[Symbol]	EXISTING POWER POLE
— FO —	EXISTING FIBER OPTIC	[Symbol]	EXISTING GAS VALVE
— OE —	EXISTING OVERHEAD ELECTRIC	[Symbol]	EXISTING WATER VALVE
— UE —	EXISTING UNDERGROUND ELECTRIC	[Symbol]	EXISTING GAS METER
— UE —	PROPOSED UNDERGROUND ELECTRIC	[Symbol]	EXISTING WATER METER
— OETV —	EXISTING OVERHEAD ELEC. & TV	[Symbol]	EXISTING FIRE HYDRANT
— OETV —	EXISTING OVERHEAD ELEC., TV & TELE.	[Symbol]	MANHOLE
— S —	EXISTING SANITARY SEWER	[Symbol]	EXISTING SANITARY SEWER LATERAL
— S —	PROPOSED SANITARY SEWER	[Symbol]	PROPOSED SANITARY SEWER LATERAL
.....XXX.....	EXISTING MINOR CONTOUR	[Symbol]	PROPOSED TRACER WIRE TEST STATION BOX
---XXX---	EXISTING MAJOR CONTOUR	[Symbol]	EXISTING AIR CONDITIONER
---XXX---	PROPOSED MINOR CONTOUR	[Symbol]	EXISTING TELEPHONE PEDESTAL
---XXX---	PROPOSED MAJOR CONTOUR	[Symbol]	EXISTING ELECTRICAL TRANSFORMER
	100 YEAR FLOOD PLAIN	[Symbol]	EXISTING ELECTRIC METER
	FLOODWAY	[Symbol]	EXISTING LIGHT POLE
— · —	ORDINARY HIGH WATER MARK	[Symbol]	EXISTING GUY WIRE
— · —	STREAM SIDE BUFFER	[Symbol]	
-----	OUTER STREAM BUFFER	[Symbol]	
[Pattern]	PROPOSED CONCRETE PAVEMENT	[Symbol]	PROPOSED BUILDING FOOTPRINT
[Pattern]	PROPOSED CONCRETE PAVEMENT IN PARKING GARAGE	[Symbol]	PROPOSED HEAVY DUTY PAVEMENT

### REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024



OWNER:  
DISCOVERY PARK LEE'S SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY  
LOT 4  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

### DRAWING INCLUDES:

COVER SHEET

DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

SHEET:  
CE 10



SITE CLEARING & DEMOLITION:

IT IS THE INTENT THAT THE DEMOLITION BE COMPLETE AND ADEQUATE FOR THE INTENDED PURPOSE. THIS WORK SHALL INCLUDE THE REMOVAL OF ALL ITEMS, WHETHER IN VIEW OR HIDDEN UNDERNEATH THE SURFACE OF THE GROUND, REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR ENCOUNTERED DURING CONSTRUCTION.

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING MATERIALS, METHODS OF WORK, AND DISPOSAL OF EXCESS WASTE MATERIALS.

ERECT BARRIERS TO PROTECT PERSONNEL, STRUCTURES AND UTILITIES REMAINING INTACT.

PROTECT ALL EXISTING OBJECTS INTENDED TO REMAIN. IN CASE OF DAMAGE, MAKE REPAIRS OR REPLACEMENTS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.

MINIMIZE INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, SIDEWALKS, AND ADJACENT FACILITIES.

DO NOT CLOSE OR OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.

IF CLOSURE IS PERMITTED, PROVIDE SIGNAGE INDICATING CLOSURE AND SIGNAGE TO DIRECT TRAFFIC TO ALTERNATE ROUTE.

MOISTEN SURFACES AS REQUIRED TO PREVENT DUST FROM BEING A NUISANCE TO THE PUBLIC, NEIGHBORS, AND CONCURRENT PERFORMANCE OF OTHER WORK ON THE SITE.

PROVIDE THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO BUSINESS DAYS' NOTICE PRIOR TO COMMENCING WORK OF THIS SECTION.

THE CONTRACTOR SHALL LOCATE EXISTING UTILITY LINES AND SERVICES TRaversING THE SITE AND DETERMINE THE REQUIREMENTS FOR THEIR PROTECTION. THE CONTRACTOR SHALL PRESERVE ACTIVE UTILITIES ON THE SITE THAT ARE DESIGNATED TO REMAIN.

BEFORE STARTING SITE OPERATIONS, THE CONTRACTOR SHALL DISCONNECT OR ARRANGE FOR THE DISCONNECTION OF ALL UTILITY SERVICES DESIGNATED TO BE REMOVED. THE CONTRACTOR SHALL PERFORM ALL SUCH WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY OR AGENCY INVOLVED.

IN REMOVING PAVEMENT, CURB AND GUTTER, SIDEWALKS, ETC., WHERE A PORTION IS LEFT IN PLACE, REMOVAL SHALL BE TO AN EXISTING JOINT OR TO A JOINT SAWN TO A MINIMUM DEPTH OF 2" WITH A TRUE SAW LINE AND A VERTICAL FACE. REMOVE SUFFICIENT PAVEMENT TO PROVIDE FOR PROPER GRADE AND CONNECTIONS IN THE NEW WORK REGARDLESS OF ANY LIMITS INDICATED ON THE DRAWINGS.

EXISTING CASTINGS AND CULVERTS, IF SALVAGEABLE AND REMOVED INTACT, REMAIN THE PROPERTY OF THE CONTRACTOR.

ALL SEWERS AND DRAINAGE PIPES, WHICH HAVE BEEN OR ARE TO BE ABANDONED, SHALL BE PERMANENTLY SEALED AT THE ENDS WITH BULKHEADS CONSTRUCTED OF CONCRETE, HAVING A MINIMUM THICKNESS OF 8".

ABANDON STORM OR SANITARY SEWER STRUCTURES BY BREAKING THE CONCRETE BOTTOM OF THE STRUCTURE INTO PIECES NO LARGER THAN 12" IN ANY DIRECTION AND REMOVING THE TOP OF THE STRUCTURE TO 3' BELOW FINISHED GRADE. PLUG ALL PIPES WITH CONCRETE AND FILL STRUCTURE WITH 1" CLEAN GRAVEL.

ALL DEBRIS SHALL BE DISPOSED OF OFF-SITE.

DO NOT STORE OR BURN MATERIALS ON-SITE UNLESS PERMITTED BY THE GOVERNING JURISDICTION.

ALL ASPHALT OR CONCRETE MATERIALS SHALL BE DISPOSED OF OFF-SITE.

MATERIAL ACQUIRED THROUGH DEMOLITION, OTHER THAN THOSE REQUIRED TO COMPLETE THE CONSTRUCTION PROJECT AND DESIGNATED FOR RETURN TO OWNER, WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REMOVED FROM THE SITE. THE MATERIAL WILL BE DISPOSED OF IN A LEGAL MANNER.

THE CONTRACTOR'S OPERATIONS SHALL BE RESTRICTED TO THOSE AREAS INSIDE THE CONSTRUCTION LIMITS INDICATED ON THE DRAWINGS. IF LIMITS ARE NOT INDICATED, RESTRICT WORK TO THE OWNER'S PROPERTY, EASEMENT, OR PUBLIC RIGHTS-OF-WAY.

COMPLETE WORK WITHIN PUBLIC RIGHTS-OF-WAY UNDER THE PERMISSION OF THE GOVERNING AGENCY.

IF ITEMS OUTSIDE THE LIMITS OF DISTURBANCE GET DAMAGED, OWNER COMPLETES THE REQUIRED REPAIRS AND CHARGES THE CONTRACTOR.

THE CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF ALL MANHOLES, CASTINGS, WATER VALVES IRRIGATION BOXES, CLEAN OUTS AND ETC. WITHIN THE GRADING LIMITS TO MATCH THE FINISHED SURFACE. ADJUSTMENTS SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO CONSTRUCTION UNLESS NOTED AS A BID ITEM. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITY STRUCTURES AND APPURTENANCES THAT OCCURS DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

EARTHMOVING:

CONTRACTOR TO SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

TEST REPORTS: SUBMIT FOR APPROVAL TEST REPORTS, LIST OF MATERIALS AND GRADATIONS PROPOSED FOR USE. OBTAIN SAMPLES OF ANY PROPOSED FILL MATERIAL AND CONTRACTOR TO PROVIDE STANDARD PROCTOR TEST REPORTS TO ENGINEER.

COMPACTION REQUIREMENTS ARE AS FOLLOWS:

- UNDER STEPS, PAVEMENTS, AND WALKWAYS, 95 PERCENT STANDARD PROCTOR MINIMUM DENSITY, ASTM D 698.
- UNDER LAWNS OR UNPAVED AREAS, 85 PERCENT, ASTM D 698.

GRADING TOLERANCES OUTSIDE BUILDING LINES ARE AS FOLLOWS:

- LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1 INCH.
- PAVEMENTS, PLUS OR MINUS 1/2 INCH.
- ALL ADA ROUTES AND PARKING ARE TO MEET ADA REQUIREMENTS AT ALL TIMES.

ALL ACTIVITIES WILL BE CONTAINED WITHIN CONSTRUCTION BOUNDARIES INDICATED ON SITE PLAN. SPECIFIED EXCAVATION REQUIREMENTS, PRECAUTIONS, AND PROTECTIVE SYSTEMS WILL BE OBSERVED AT ALL TIMES.

MOVEMENT OF TRUCKS AND EQUIPMENT ON OWNER'S PROPERTY WILL BE IN ACCORDANCE WITH OWNER'S INSTRUCTIONS.

TOPSOIL WILL BE STRIPPED FROM THE CONSTRUCTION SITE AND WILL BE DISPOSED OF LEGALLY OFF SITE.

TRENCHES WILL NOT BE BACKFILLED UNTIL ALL REQUIRED TESTS ARE COMPLETED AND THE UTILITY SYSTEMS, AS INSTALLED, CONFORM TO REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.

EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS ENCOUNTERED. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS FOLLOWS:

- AT STRUCTURE: CONCRETE OR COMPACTED STRUCTURAL FILL.
- ELSEWHERE: BACKFILL AND COMPACT AS DIRECTED.

MAINTAIN STABILITY OF EXCAVATIONS; CONTRACTOR TO BE RESPONSIBLE FOR DESIGN AND COORDINATION OF SHORING AND BRACING AS REQUIRED. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE, ALLOW FOR PROPER DRAINAGE AND DO NOT STOCKPILE MATERIALS WITHIN DRIP LINE OF TREES TO REMAIN.

COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698 BY AERATION OR WETTING TO THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY:

- STRUCTURE, PAVEMENT, WALKWAYS: SUBGRADE AND EACH FILL LAYER TO 95% (-2%+4%) OF STANDARD PROCTOR MAXIMUM DRY DENSITY TO SUITABLE DEPTH. COMPACTION TESTING SHALL BE PERFORMED IMMEDIATELY PRIOR TO THE PLACEMENT OF REINFORCING STEEL AND NEW PAVING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING TESTING WITH OWNERS DESIGNATED TESTING AGENCY.
- UNPAVED AREAS: TOP 6" OF SUBGRADE AND EACH FILL LAYER TO 90% MAXIMUM DRY DENSITY.
- A PROOF-ROLL SHALL BE REQUIRED OF THE SUBGRADE PRIOR TO PLACEMENT OF THE BASE COURSE. PROOF ROLLING SHALL CONSIST OF PASSING A LOADED, 20-TON, TANDEM DUMP TRUCK OVER THE PREPARED SUBGRADE SOIL WITH A MAXIMUM ALLOWABLE DISPLACEMENT OF 1". ANY AREAS THAT DISPLACE MORE THAN 1" SHALL BE COMPACTED UNTIL THIS CRITERION IS MET, OR THOSE AREAS MAY BE EXCAVATED AND BACKFILLED WITH COMPACTED TYPE 1 AGGREGATE USED FOR BASE MATERIAL. ALL PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
- CUT AREAS UNDER PROPOSED ASPHALT OR CONCRETE PAVEMENTS SHALL BE CUT AND COMPACTED. AFTER GRADING TO SUBGRADE ELEVATION, SCARIFY THE TOP SIX INCHES OF THE SUB-BASE AND COMPACT AS OUTLINED ABOVE.

PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:

- STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.
- DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.
- LANDSCAPE AREA FILL:
  - ALL SUB-GRADE AREAS SHALL BE "DIPPED" TO A MINIMUM 6" DEEP AND A MAXIMUM OF 12" APART IN OPPOSITE DIRECTIONS WITH MINIMAL TIRE TRAFFIC TO FOLLOW.
  - CONTRACTOR TO LEAVE AREAS 6" OR 18" (PLANTER AREAS) BELOW FINISH GRADE, OWNER TO PLACE TOPSOIL AND ALL PLANTINGS.
- ANY FILL SOIL WITHIN 36" OF FINISHED GRADE IN LAWN AND FINISHED AREAS SHALL BE CHESWICH SOILS IN SOIL CLASSIFICATIONS GROUPS ML, CL, CH OR A COMBINATION THEREOF, FREE OF ROCK OR GRAVEL LARGER THAN 1" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIAL, VEGETATION AND OTHER DELETERIOUS MATER.
- SUB-BASE MATERIAL: USE UNDER PAVEMENT, WALKS, STEPS, PIPING AND CONDUIT.

GRADE TO WITHIN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND WITHIN A TOLERANCE OF 1/2" IN 10'.

PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RECOMPACT AND REGRADE SETTLED, DISTURBED AND DAMAGED AREAS AS NECESSARY TO RESTORE QUALITY, APPEARANCE, AND CONDITION OF WORK.

CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO SLOPED OR SURFACED AREAS.

CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.

DISPOSAL OF EXCAVATION WASTE AND UNSUITABLE MATERIALS SHALL BE THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. NO SPECIFIC OR PRE-APPROVED LOCATION IS BEING PROVIDED BY THE OWNER.

CONCRETE:

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

- CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:
  - FOUNDATIONS - 3,000 PSI
  - CAST-IN-PLACE WALLS - 3,500 PSI
  - FLOOR SLAB - 4,000 PSI
  - EXTERIOR SLABS, WALLS AND CURBS - 4,000 PSI
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.
- ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION.
- CONTINUOUS REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4 +/- 1" (ASTM C-143) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ACHIEVE A MAXIMUM SLUMP OF 8" FOR WORKABILITY. NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.
- CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR DEICING CHEMICALS SHALL BE AIR-ENTRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF FINISHED FINISHED FLOORS TO EXCEED 3%.
- SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGIN CONCRETE PRODUCTION UNTIL MIXES HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.
- READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94.
- CONCRETE WORK EXECUTION
  - CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.
  - POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE, ON THE DRAWINGS:
    - CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES
    - EXPOSED TO EARTH OR WEATHER.....2 INCHES
    - NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.....1 1/4 INCHES
  - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODGING AGGREGATE.
  - STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.
  - CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301, USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.
- FLINT AND CHERT WILL BE LIMITED TO 1% MAXIMUM, BY WEIGHT OF THE COURSE AGGREGATE, IN ALL EXPOSED CONCRETE (CAST-IN-PLACE OR PRECAST). LIGHTWEIGHT WILL BE LIMITED TO 0.5%, BY WEIGHT OF THE FINE AGGREGATE IN ALL EXPOSED CONCRETE. SOME APPLICATIONS MAY BE REQUIRED TO BE LIGHTWEIGHT FREE.

CONCRETE PAVING JOINT SEALANTS:

DELIVER MATERIALS TO PROJECT SITE IN ORIGINAL UNOPENED CONTAINERS OR BUNDLES WITH LABELS INDICATING MANUFACTURER, PRODUCT NAME AND DESIGNATION, COLOR, EXPIRATION DATE, POT LIFE, CURING TIME, AND MIXING INSTRUCTIONS FOR MULTICOMPONENT MATERIALS.

STORE AND HANDLE MATERIALS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT THEIR DETERIORATION OR DAMAGE DUE TO MOISTURE, HIGH OR LOW TEMPERATURES, CONTAMINANTS, OR OTHER CAUSES.

DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNDER THE FOLLOWING CONDITIONS:

- WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 DEG F.
- WHEN JOINT SUBSTRATES ARE WET OR COVERED WITH FROST.
- WHERE JOINT WIDTHS ARE LESS THAN THOSE ALLOWED BY JOINT-SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.
- WHERE CONTAMINANTS CAPABLE OF INTERFERING WITH ADHESION HAVE NOT YET BEEN REMOVED FROM JOINT SUBSTRATES.

PROVIDE JOINT SEALANTS, BACKING MATERIALS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.

COLD-APPLIED JOINT SEALANTS ARE TO BE TYPE NS SILICONE SEALANT FOR CONCRETE; SINGLE-COMPONENT, LOW-MODULUS, NEUTRAL-CURING, NONSAG SILICONE SEALANT COMPLYING WITH ASTM D 5893 FOR TYPE NS. PRODUCTS ALLOWED ARE: CRAFCO INC.; ROADSAVER SILICONE ; DOW CORNING CORPORATION; 888; PECORA NS 301, OR APPROVED EQUAL.

CONTRACTOR TO PROVIDE JOINT-SEALANT BACKER MATERIALS THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY JOINT-SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING. ROUND BACKER RODS FOR COLD-APPLIED SEALANTS: ASTM D 5249, TYPE 3, OF DIAMETER AND DENSITY REQUIRED TO CONTROL SEALANT DEPTH AND PREVENT BOTTOM-SIDE ADHESION OF SEALANT.

PRIOR TO JOINT INSTALLATION, CONTRACTOR IS TO EXAMINE JOINTS INDICATED TO RECEIVE JOINT SEALANTS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR JOINT CONFIGURATION, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING JOINT- SEALANT PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS.

COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PRODUCTS AND APPLICATIONS INDICATED, UNLESS MORE STRINGENT REQUIREMENTS APPLY.

COMPLY WITH RECOMMENDATIONS IN ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED.

INSTALL BACKER MATERIALS OF TYPE INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY. DO NOT LEAVE GAPS BETWEEN ENDS OF BACKER MATERIALS. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR BACKER MATERIALS. REMOVE ABSORBENT BACKER MATERIALS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.

INSTALL SEALANTS USING PROVEN TECHNIQUES THAT COMPLY WITH THE FOLLOWING AND AT THE SAME TIME BACKING ARE INSTALLED:

- PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES.
- COMPLETELY FILL RECESSES PROVIDED FOR EACH JOINT CONFIGURATION.
- PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.

IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS ACCORDING TO REQUIREMENTS SPECIFIED BELOW TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED; TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT. USE TOOLING AGENTS THAT ARE APPROVED IN WRITING BY JOINT-SEALANT MANUFACTURER AND THAT DO NOT DISCOLOR SEALANTS OR ADJACENT SURFACES.

PROVIDE JOINT CONFIGURATION TO COMPLY WITH JOINT-SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE INDICATED.

PROVIDE RECESSED JOINT CONFIGURATION FOR SILICONE SEALANTS OF RECESS DEPTH AND AT LOCATIONS INDICATED.

CLEAN OFF EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.

PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES AND FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO SEALANTS ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY AND REPLACE WITH JOINT SEALANT SO INSTALLATIONS WITH REPAIRED AREAS ARE INDISTINGUISHABLE FROM THE ORIGINAL WORK.

PAVEMENT MARKING:

PANT FOR PARKING LOT STRIPING SHALL BE CHLORINATED RUBBER CONFORMING TO TT-P115F EPOXY PAVEMENT MARKING MATERIAL WITHOUT GLASS BEADS. PAINT TYPE MUST BE COMPATIBLE WITH THE SURFACES TO BE PAINTED

PAINT SHALL BE APPLIED PER THE FOLLOWING COLOR CODE: WHITE FOR STANDARD PARKING SPACE LINES AND SIDEWALK CROSSINGS. BLUE FOR ACCESSIBLE PARKING STALL AND SYMBOLS AND ASSOCIATED CROSS-HATCHED AREAS

MATERIALS SHALL INCLUDE STANDARD COMMERCIAL GRADE MASKING MATERIALS, SCRAPERS, CLEANING SOLVENTS, AND OTHER MATERIALS REQUIRED FOR THE WORK. USE MATERIALS SPECIFIED BY MANUFACTURER'S DIRECTION LABEL ON CONTAINER.

DELIVER MATERIALS TO THE SITE IN ORIGINAL CONTAINERS WITH SEALS UNBROKEN AND LABELS INTACT. PROTECT ALL PAINT FROM FREEZING. DO NOT ALLOW PAINT TO SETTLE, CURE, OR THICKEN IN THE CONTAINER. READYLY STIR WITH A PADDLE TO A SMOOTH CONSISTENCY. PAINT SHALL ARRIVE ON THE JOB COLOR-MIXED EXCEPT FOR TINTING OF UNDERCOATS AND POSSIBLE THINNING.

PRIOR TO BEGINNING CLEANING OR PAINTING OPERATIONS, CONTRACTOR SHALL PROTECT ALL ITEMS OR SURFACES NOT INCLUDED IN AREA TO BE PAINTED. PROTECT VEHICLES, EQUIPMENT, STRUCTURES, OR OTHER ITEMS FROM PAINT SPATTERS, OVER SPRAY, OR DAMAGE.

CONTRACTOR SHALL PROVIDE BARRICADES AND ANY SIGNAGE NEEDED TO PROTECT ALL PAINTED AREAS FROM PEDESTRIAN AND VEHICULAR TRAFFIC UNTIL ACHIEVING SUFFICIENT DRYING TIME.

PERFORM PAINTING AS SOON AS FEASIBLE AND PRACTICAL AFTER THE FINISHING OF THE PAVEMENT OR AS DIRECTED BY THE OWNERS REPRESENTATIVE. ADEQUATE LIGHTING SHALL BE AVAILABLE AT THE TIME OF PAINTING. EXAMINE ALL SURFACES TO RECEIVE PAINT TO MAKE SURE THERE ARE NO DEFECTS IN THE SURFACE TO BE STRIPED. DO NOT PAINT OVER RUST, SCALE, GREASE, OIL, FUEL, DUST, WET PAVEMENT, OR OTHER CONDITIONS DETRIMENTAL TO PAINT ADHESION. REMOVE GREASE, OIL, OR FUEL ON ANY SURFACE BEFORE PAINTING. CORRECT ALL SURFACE DEFECTS BEFORE PAINTING. CONTRACTOR SHALL EXAMINE AREAS TO BE PAINTED. NOTIFY THE OWNERS REPRESENTATIVE IN WRITING OF CONDITIONS THAT MIGHT DELAY TIMELY COMPLETION OF THE WORK.

PAINTING SHALL NOT BE PERFORMED WHEN THE AMBIENT TEMPERATURE IS LESS THAN 55 DEGREES FAHRENHEIT, OR WHILE THE SURFACE IS DAMP. THE SURFACE MUST BE FIVE DEGREES OR MORE ABOVE THE DEW POINT TEMPERATURE DURING PAINTING OPERATIONS AND WHILE PAINT IS DRYING.

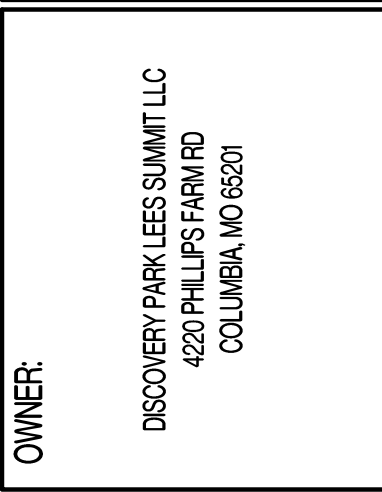
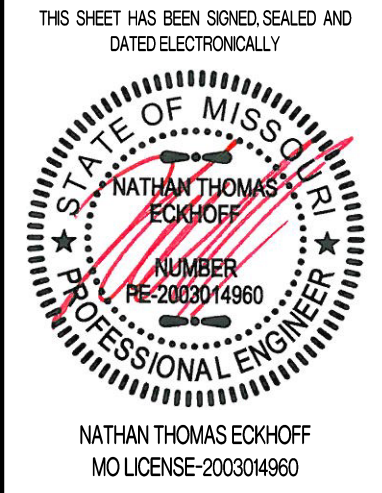
AREAS TO BE PAINTED SHALL RECEIVE ONE COAT OF PAINT NOT LESS THAN 25 MILS THICKNESS WET PER MDOOT 620.9 THROUGH 620.9.3.4.2. IN LOCATIONS REQUIRING MULTIPLE COATS, PRIOR COAT SHALL BE DRY TO MANUFACTURER'S RECOMMENDATIONS BEFORE APPLYING THE NEXT COAT.

FINISHED WORK SHALL BE UNIFORM, OF APPROVED COLOR, FREE OF RUNS, DRIPS, DEFECTIVE BRUSHING, SPRAYING, AND CLOGGING. PARKING LINES AND SYMBOLS SHALL BE NEAT AND WELL DEFINED. ONLY SKILLED APPLICATORS SHALL APPLY PAINT. OWNERS REPRESENTATIVE SHALL APPROVE APPLICATION TECHNIQUES.

REMOVE PAINT SPATTER FROM ADJACENT AREAS OR AREAS NOT DESIGNATED TO RECEIVE PAINT. CONTRACTOR SHALL REPAIR OR TOUCH UP ANY SURFACES IF EXPOSED TO VEHICULAR AND PEDESTRIAN TRAFFIC, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER. WHEN COLOR, DIRT, STAINS, EXISTING PAINT, ETC., SHOW THROUGH THE FINAL COAT, REPAINT THE SURFACE UNTIL THE FILM IS UNIFORM IN FINISH, COVERAGE, COLOR, AND APPEARANCE

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DRAWING INCLUDES:

CIVIL SPECIFICATIONS

DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

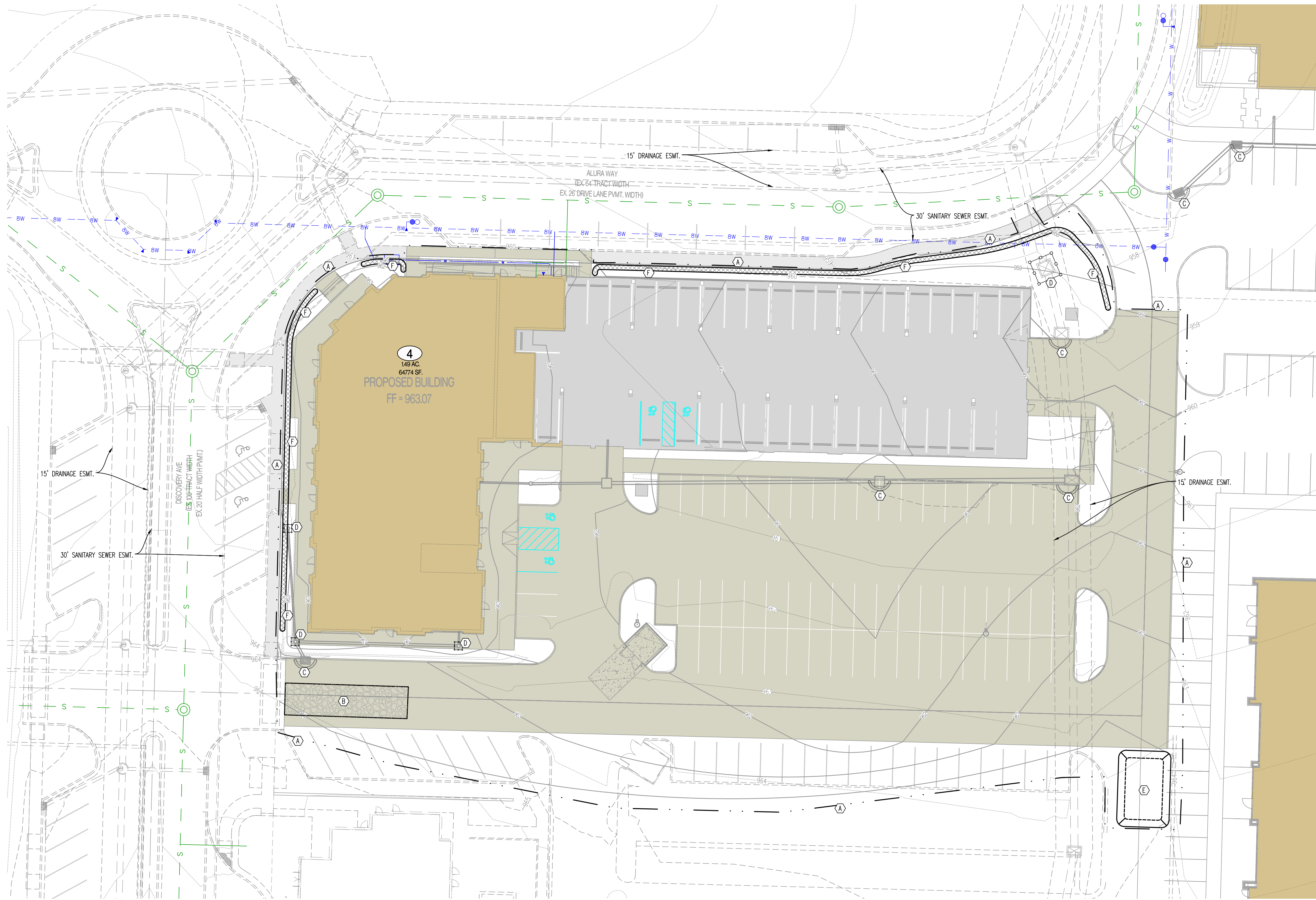
SHEET:

CE 11



LEGEND OF LABELS:

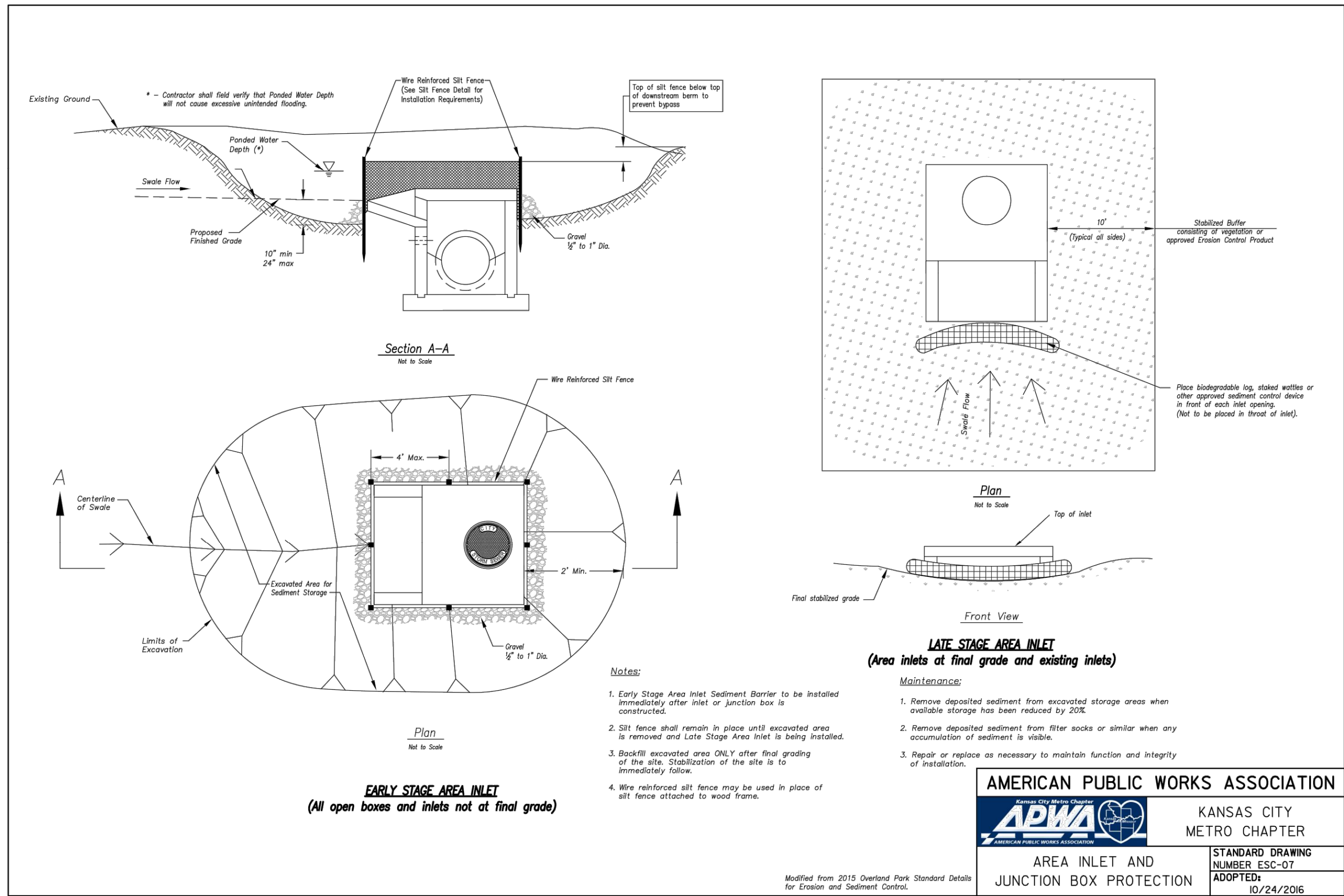
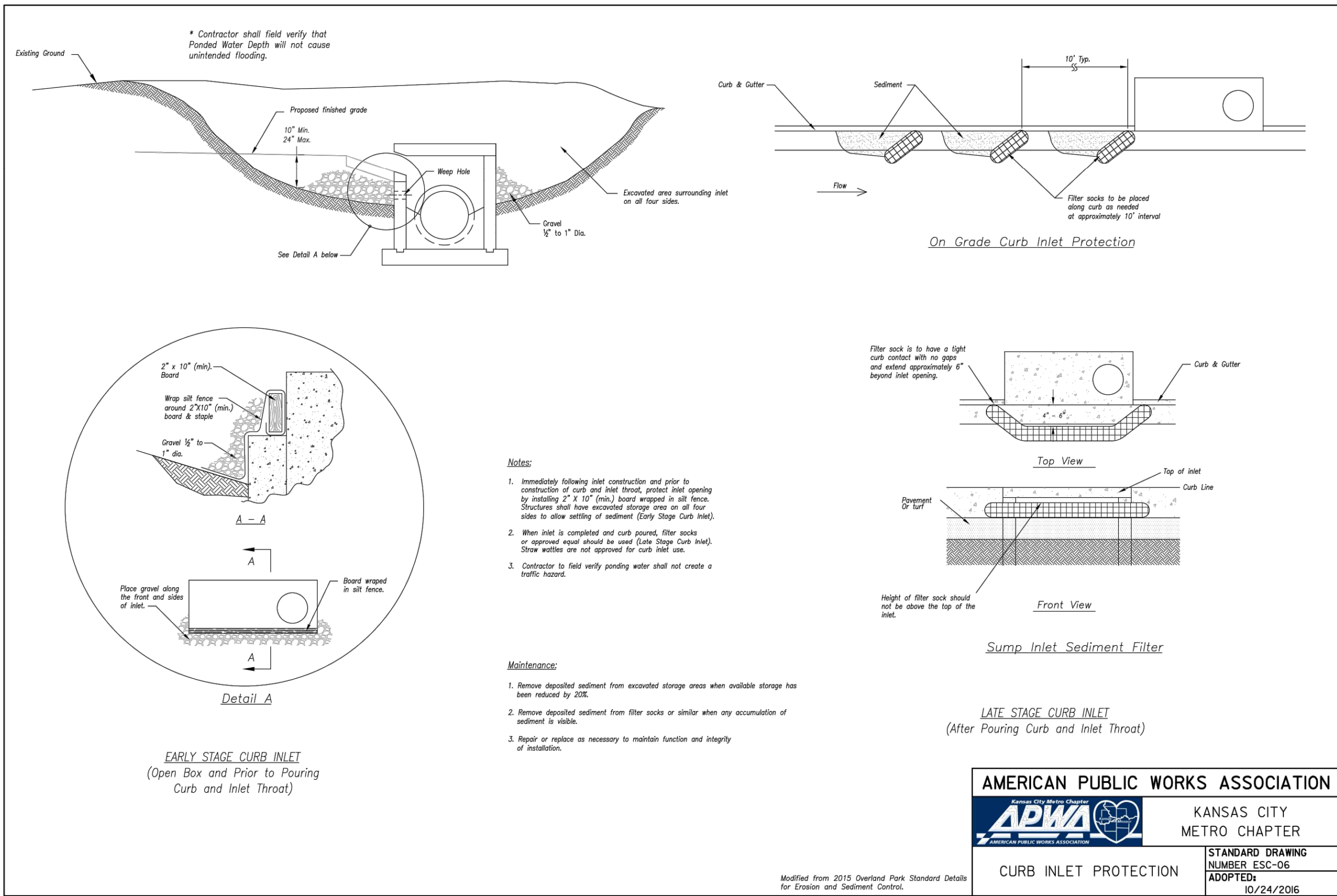
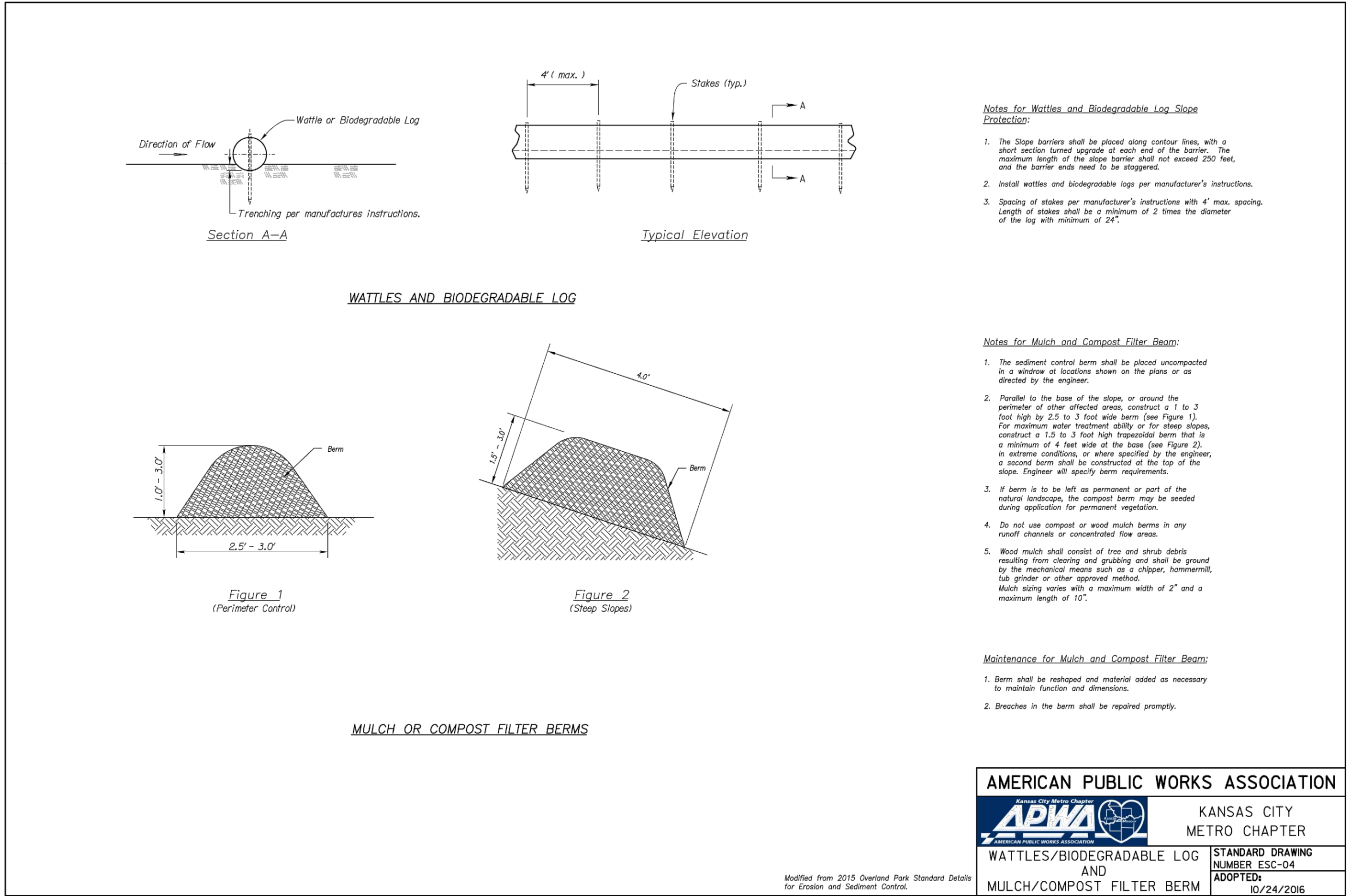
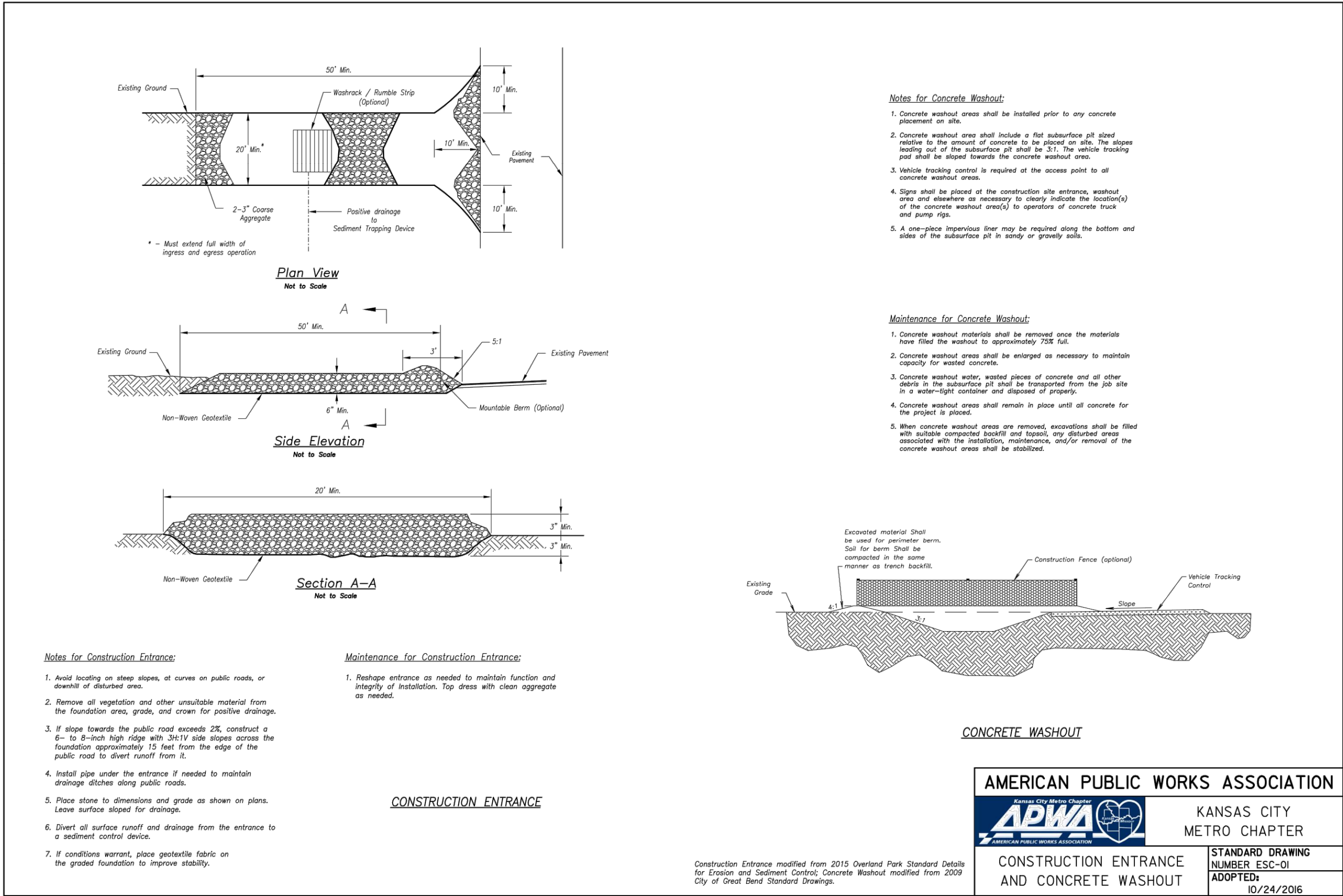
- (A) LIMITS OF DISTURBANCE.
- (B) INSTALL CRUSHED STONE CONSTRUCTION ENTRANCE. ALL CONSTRUCTION TRAFFIC SHALL LEAVE THE SITE VIA THIS EXIT. REFER TO ESC-01 ON CE 2.2.
- (C) INSTALL INLET PROTECTION AROUND THROAT OF INLET. REFER TO ESC-07 ON CE 2.2.
- (D) INSTALL 2" X 10" BOARD WRAPPED IN SILT FENCE AT THROAT OF INLET. REPLACE BOARD WITH CUTTERBUDDY (OR APPROVED EQUAL) AT THROAT OF INLET AFTER PAVING OPERATIONS ARE COMPLETE. REFER TO ESC-06 ON CE 2.2.
- (E) 20' X 30' X 3' MIN CONCRETE WASHOUT FACILITY. THE WASHOUT FACILITY IS TO BE LINED WITH A PLASTIC LINING MATERIAL (10 MIL POLYETHYLENE SHEETING MIN.) FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COULD COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. A SIGN SHALL BE INSTALLED ADJACENT TO FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. REFER TO ESC-01 ON CE 2.2 FOR CITY REQUIREMENTS.
- (F) INSTALL STRAW WATTLE AS SHOWN. REFER TO ESC-04 ON CE 2.2.



REVISIONS:	
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ORIGINAL	06/14/2024
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
NATHAN THOMAS ECKHOFF MO LICENSE 200304960	
PREPARED BY:	 ENGINEERS & ARCHITECTS 1000 W. Illinois Blvd., Ste. 300 Columbia, Missouri 65203 (314) 487-0292 www.crockettengineering.com Missouri Certificate of Authority #000000001
OWNER:	DISCOVERY PARK LEES SUMMIT LLC 4220 PHILLIPS FARM RD COLUMBIA, MO 65201
THE VILLAGE AT DISCOVERY LOT 4 LEES SUMMIT, JACKSON COUNTY, MISSOURI	
DRAWING INCLUDES:	
EROSION CONTROL PLAN	
DESIGNED:	NTE
DRAWN:	NMD
PROJECT NO.:	230286
SHEET:	CE 2.1



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REVISIONS:

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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

PROFESSIONAL ENGINEER

NUMBER PE-2003014960

NATHAN THOMAS ECKHOFF

MO LICENSE 2003014960

PREPARED BY:

CROCKETT

ENGINEERS & PLANNERS

1000 W. Niangua Blvd., Suite 100

Columbia, Missouri 65203

(372) 487-0292

www.crockettingeering.com

Crockett Engineering Consultants, LLC

Missouri Certificate of Authority #00000001

OWNER:

DISCOVERY PARK LEES SUMMIT LLC

4220 PHILLIPS FARM RD

COLUMBIA, MO 65201

DRAWING INCLUDES:

EROSION CONTROL DETAILS

DESIGNED: NTE

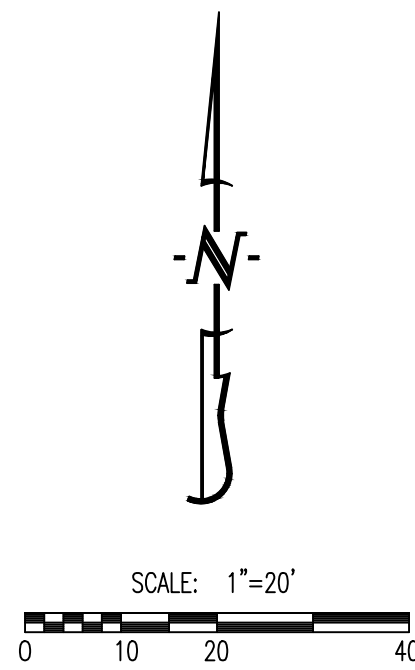
DRAWN: NMD

PROJECT NO: 230286

SHEET: CE 22

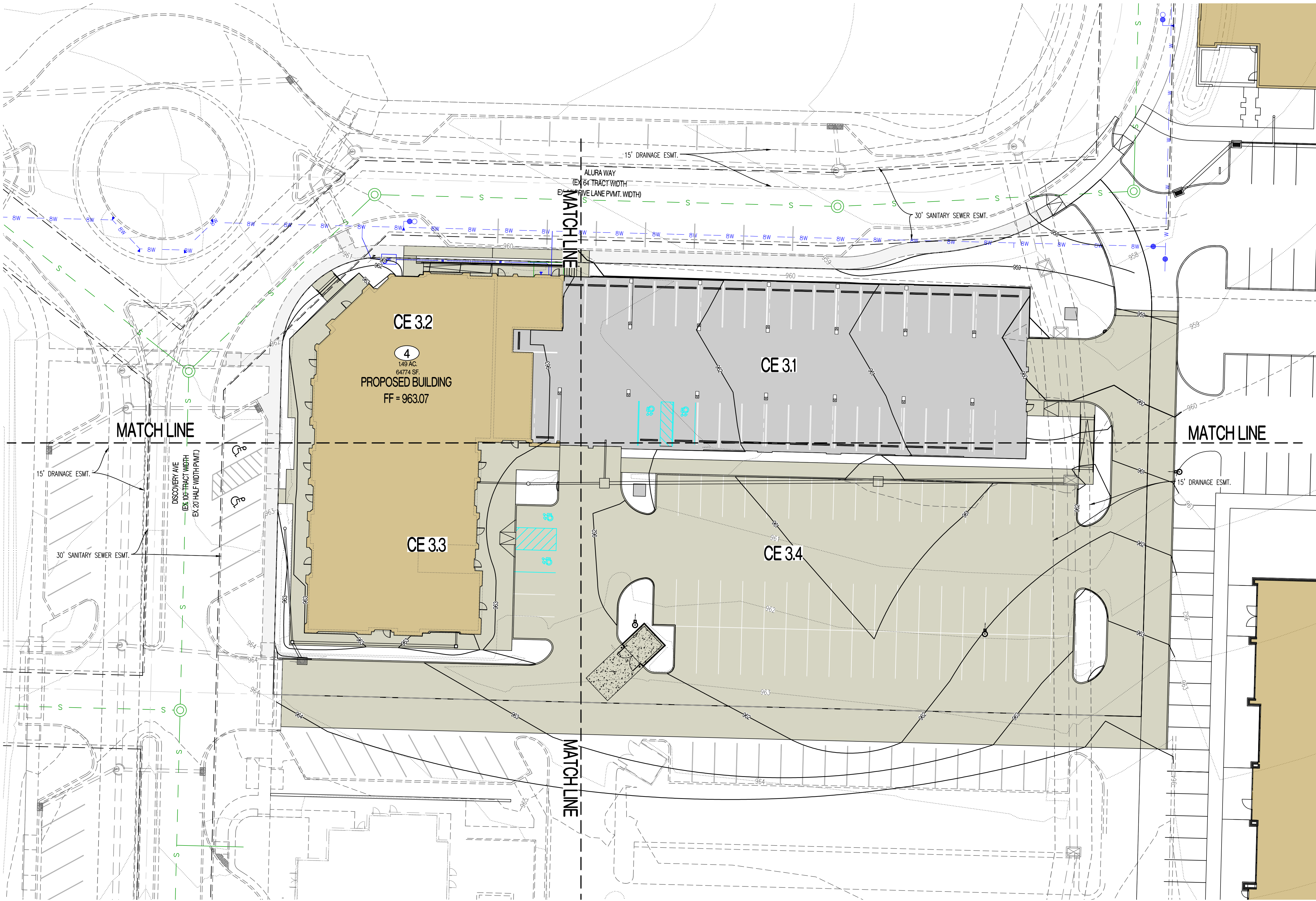


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LEGEND OF SYMBOLS:

- XXX--- EXISTING MINOR CONTOUR
- - -XXX- - EXISTING MAJOR CONTOUR
- XXX--- PROPOSED MINOR CONTOUR
- XXX--- PROPOSED MAJOR CONTOUR
- FF=XXXX FINISHED FLOOR OF STRUCTURE



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NATHAN THOMAS ECKHOFF  
MO LICENSE: 200304960

PREPARED BY:

ENGINEERS & ARCHITECTS  
1000 W. Illinois Blvd., Ste. 100  
Columbia, Missouri 65203  
(314) 487-0292  
www.crockettengineering.com  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#000000001

OWNER:

DISCOVERY PARK LEES SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA, MO 65201

# THE VILLAGE AT DISCOVERY

## LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

OVERALL GRADING PLAN

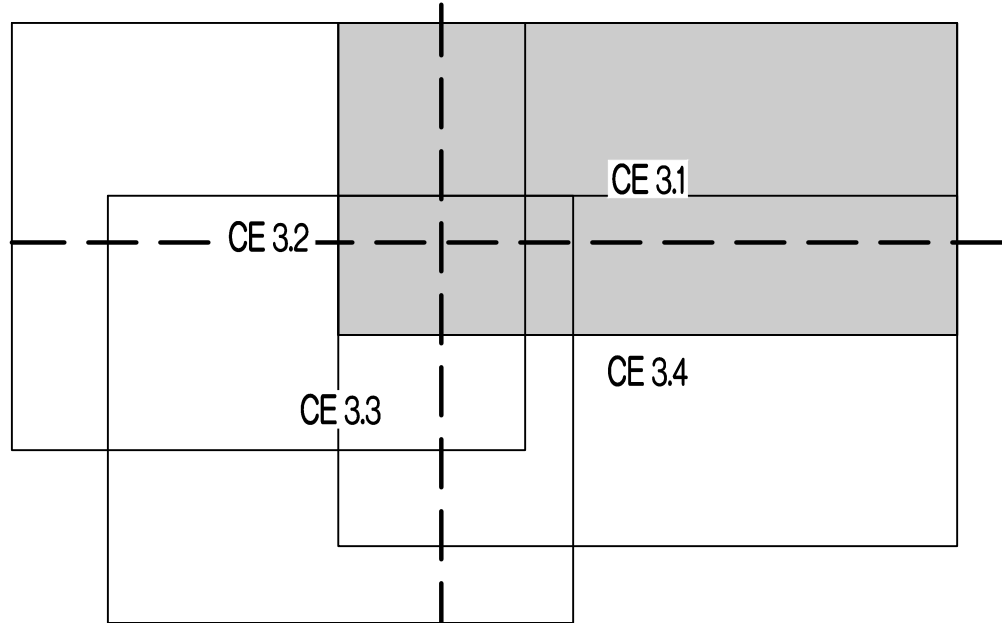
DESIGNED: NTE

DRAWN: NMD

PROJECT NO: 230286

SHEET:  
CE 3.0





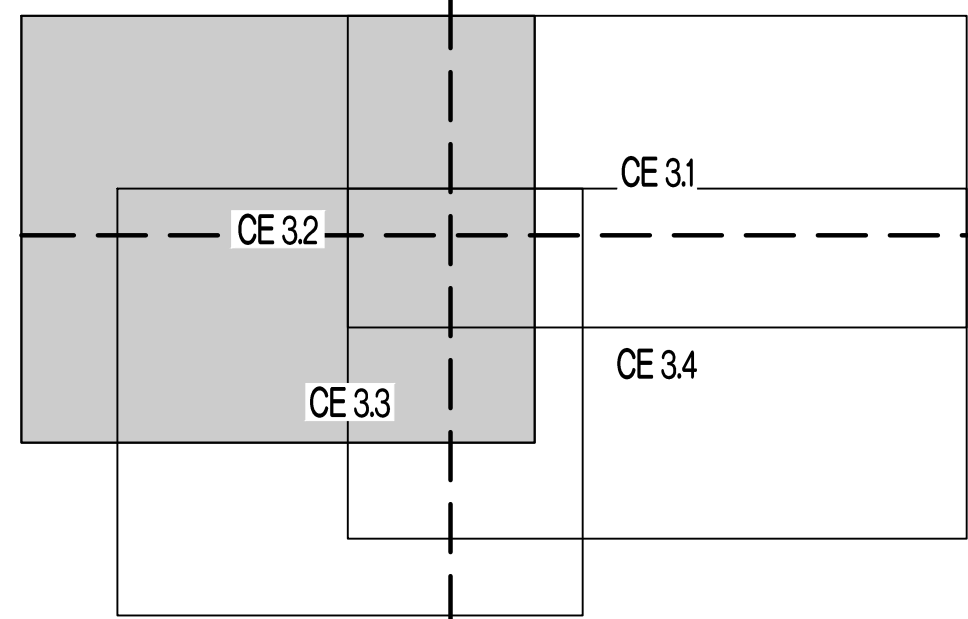
LEGEND OF SYMBOLS:

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-- --XXX-- --	EXISTING MAJOR CONTOUR
-----XXX-----	PROPOSED MINOR CONTOUR
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FF=XXXX	FINISHED FLOOR OF STRUCTURE
XXX.XX TC	PROPOSED TOP OF CURB ELEVATION TC = (TP+6") UNLESS NOTED OTHERWISE
XXX.XX TP	PROPOSED TOP OF PAVEMENT ELEVATION
XXX.XX FG	PROPOSED FINISHED GRADE ELEVATION
XXX.XX TW	PROPOSED FINISHED GRADE AT TOP OF WALL

REVISIONS: <table border="1"> <tr> <th>NO.</th> <th>DATE</th> </tr> <tr> <td>ORIGINAL</td> <td>06/14/2024</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		NO.	DATE	ORIGINAL	06/14/2024								
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NATHAN THOMAS ECHOWOFF MO LICENSE-2003014960													
PREPARED BY:  <b>CROCKETT</b> ENGINEERING CONSULTANTS 1000 W. Illinois Blvd., Bldg. 1 Columbia, MO 65201 Phone: 620.371.4412 Fax: 620.371.4412 <a href="http://www.crockettengineering.com">www.crockettengineering.com</a> Crockett Engineering Consultants, LLC Missouri Professional Engineer #2000781301 #2000781301													
OWNER:  DISCOVERY PARK/LESS SUMMIT LLC 4202 PHILLIPS FARM RD COLUMBIA, MO 65201	<h1>THE VILLAGE AT DISCOVERY</h1> <h2>LOT 4</h2> <h1>LEE'S SUMMIT, JACKSON COUNTY, MISSOURI</h1>												
DRAWING INCLUDES:  GRADING PLAN SHEET 1													
DESIGNED: NTE DRAWN: NMD PROJECT NO: 230286 SHEET: CE 3.1													

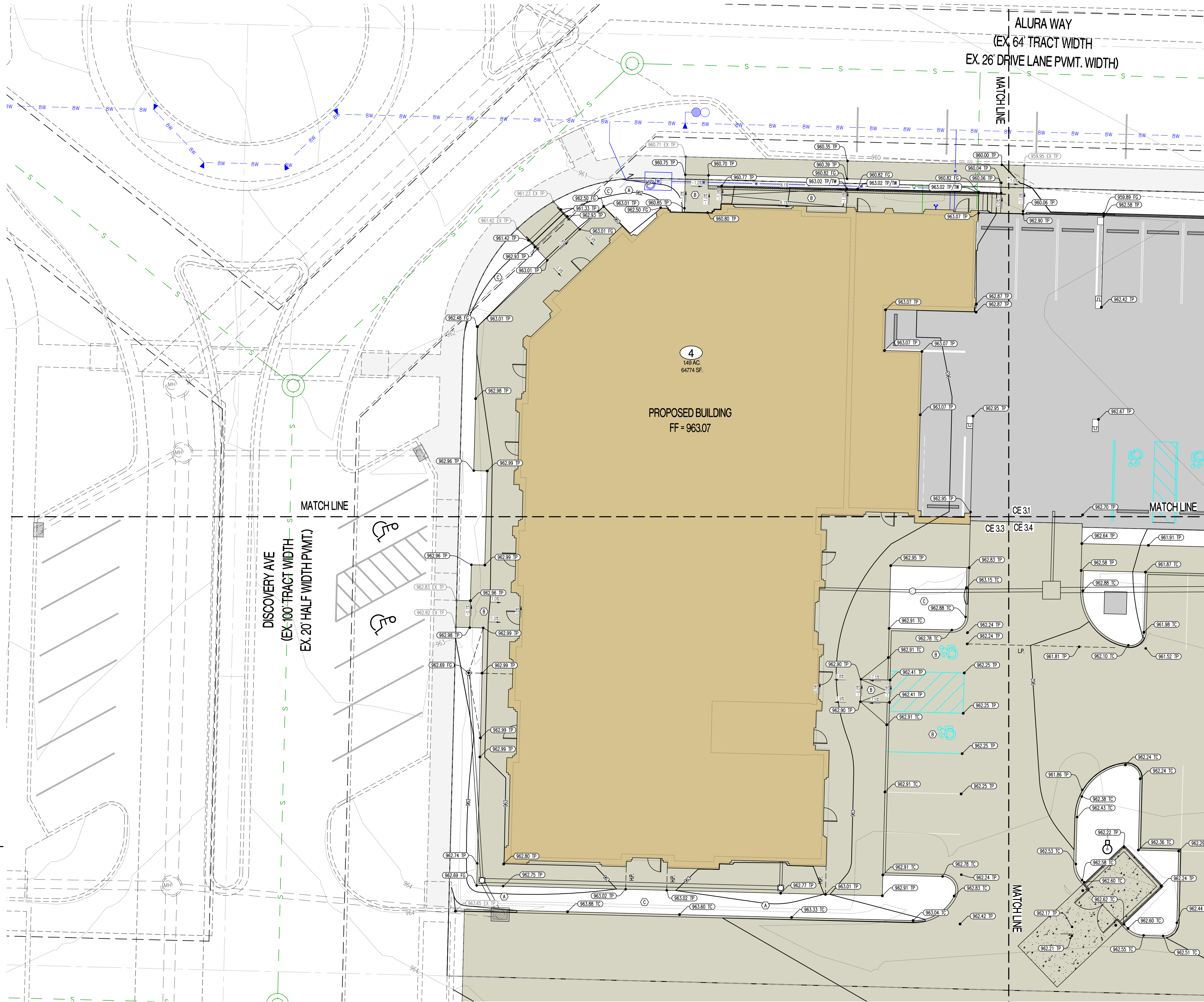


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LEGEND OF LABELS	
(A)	FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL SEED AND MULCH ALL DISTURBED AREAS.
(B)	GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
(C)	AREAS OF FUTURE PAVEMENT AND BUILDING PAD NOT TO HAVE TOPSOIL RESPREAD. SEED AND AND MULCH ALL DISTURBED AREAS.

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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

NUMBER

FE-2003014960

PROFESSIONAL ENGINEER

NATHAN THOMAS ECKHOFF  
MO LICENSE 2003014960

PREPARED BY:

CROCKETT

ENGINEERS & PLANNERS

1000 W. Illinois Blvd., Ste. 100  
Columbia, Missouri 65203  
(314) 487-0292

www.crockettengineering.com  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#000000001

OWNER:

DISCOVERY PARK LEES SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY

LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

GRADING PLAN SHEET 2

DESIGNED:

NTE

DRAWN:

NMD

PROJECT NO.:

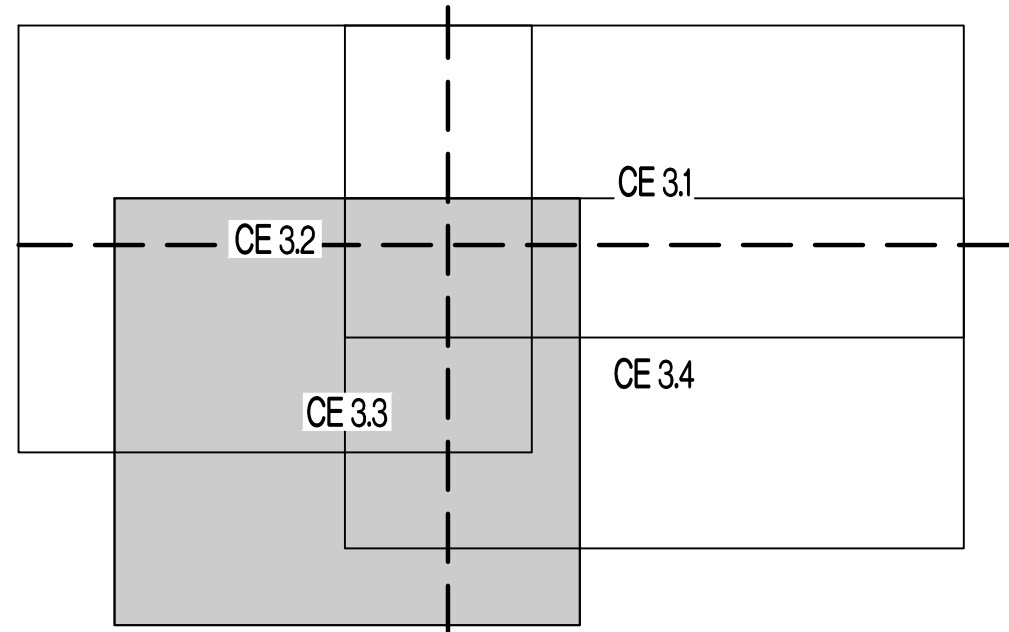
230286

SHEET:

CE 32

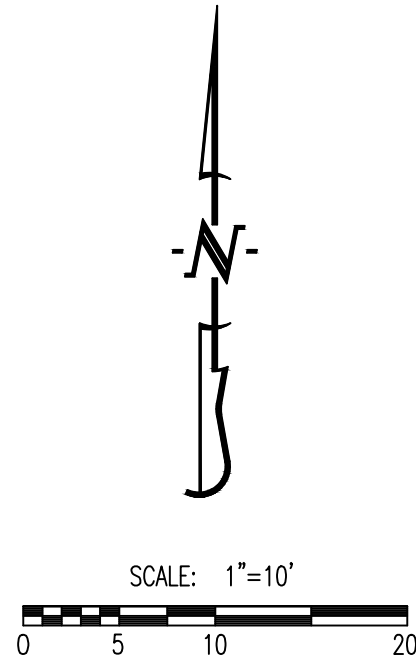


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- LEGEND OF LABELS
- (A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL. SEED AND MULCH ALL DISTURBED AREAS.
- (B) GRADE ACCESSIBLE PARKING STALLS AND ROUTES AS SHOWN. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS. ALL ACCESSIBLE ELEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

REGISTERED PROFESSIONAL ENGINEER

NUMBER  
PE-20030/4960

NATHAN THOMAS ECKHOFF  
MO LICENSE 200304960

PREPARED BY:

CROCKETT

ENGINEERS & ARCHITECTS

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www.crockettengineering.com  
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OWNER:

DISCOVERY PARK LEES SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY

LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

GRADING PLAN SHEET 3

DESIGNED: NTE

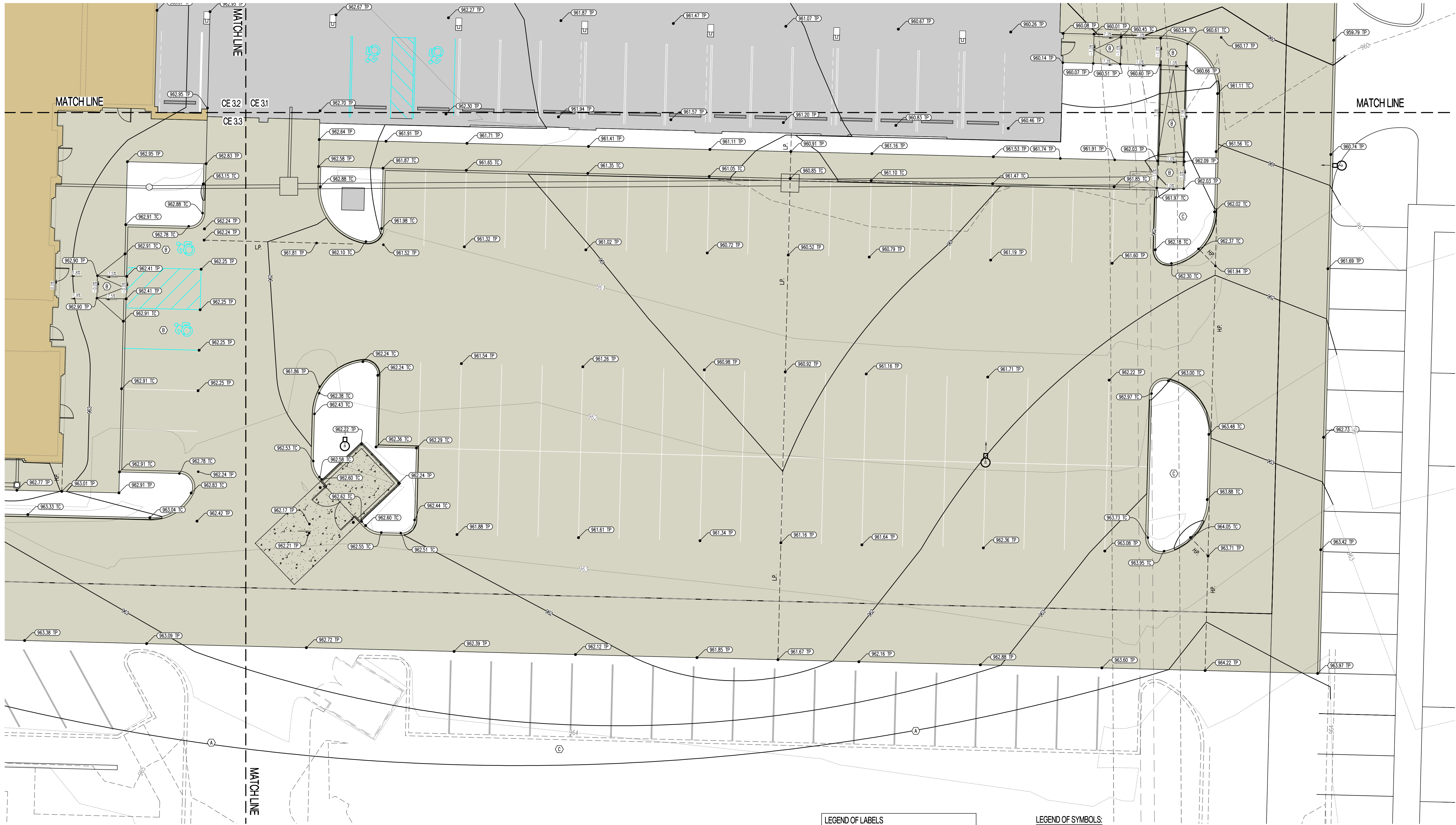
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PROJECT NO: 230286

SHEET:  
CE 3.3



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SCALE: 1"=10'

0 5 10 20

CE 32 CE 31

CE 33 CE 34

**LEGEND OF LABELS**

(A) FINE GRADE AS SHOWN BY PROPOSED CONTOURS. PLACE MINIMUM OF 6" TOP SOIL, SEED AND MULCH ALL DISTURBED AREAS.

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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

PROFESSIONAL ENGINEER

NUMBER PE-2003014960

NATHAN THOMAS ECKHOFF

MO LICENSE 2003014960

PREPARED BY:

**CROCKETT**

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Columbia, Missouri 65203

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4220 PHILLIPS FARM RD

COLUMBIA, MO 65201

**THE VILLAGE AT DISCOVERY**

**LOT 4**

**LEES SUMMIT, JACKSON COUNTY, MISSOURI**

DRAWING INCLUDES:

GRADING PLAN SHEET 4

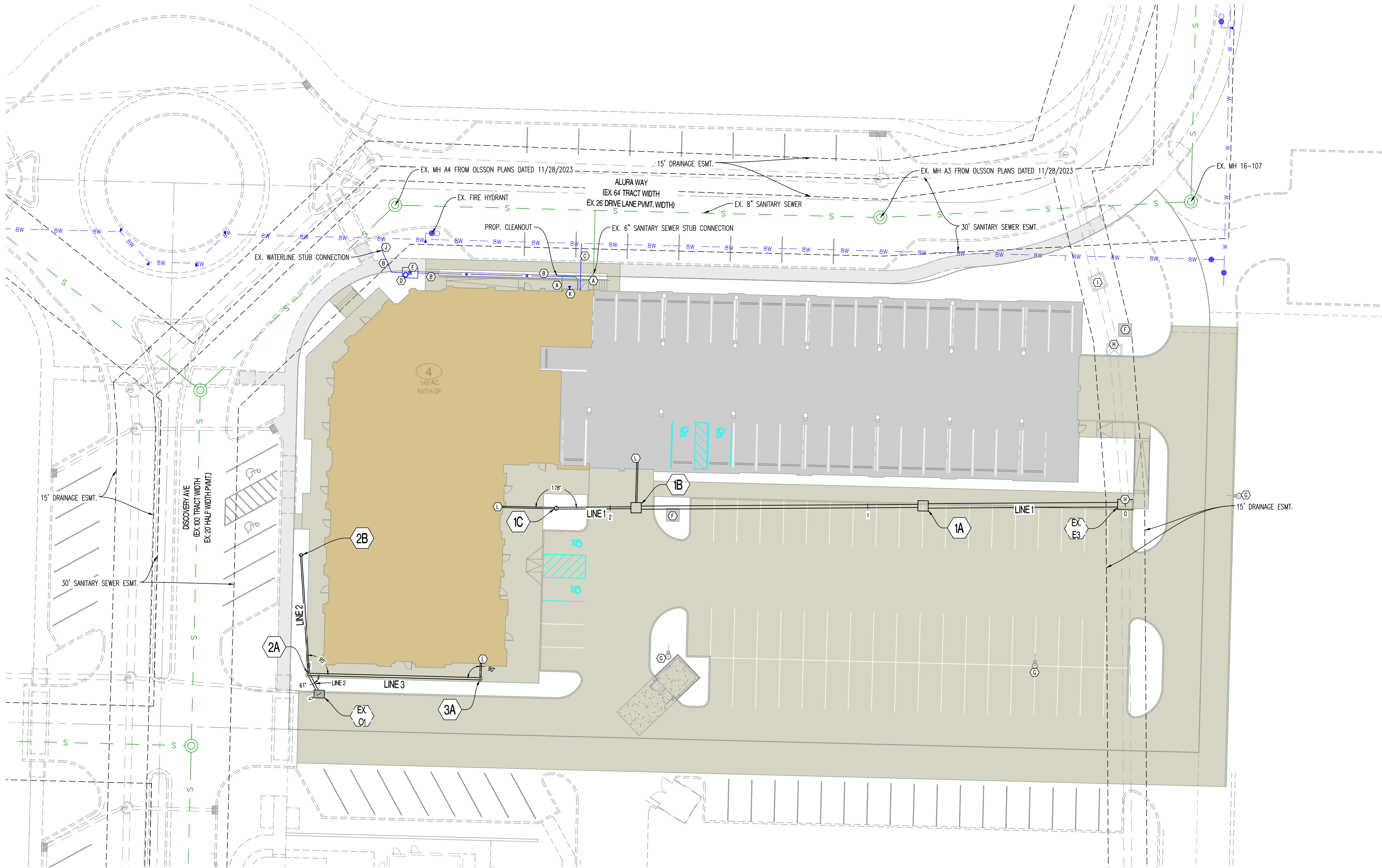
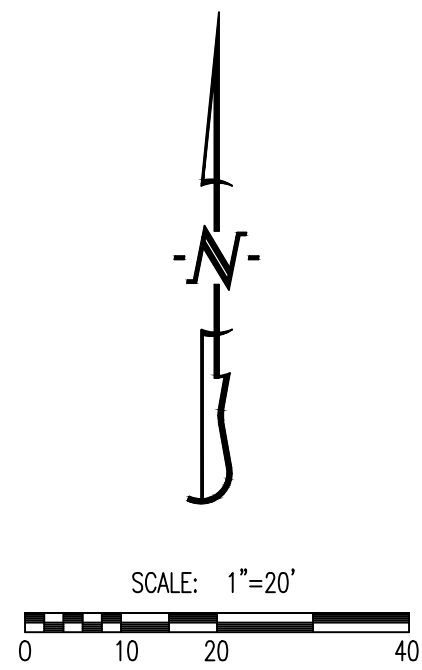
DESIGNED: NTE

DRAWN: NMD

PROJECT NO: 230286

SHEET: CE 34





**GENERAL NOTES:**

1) CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF ALL UTILITIES BEFORE ANY EXCAVATION BEGINS.

2) ALL ITEMS ASSOCIATED WITH DOMESTIC WATERLINE CONSTRUCTION (INTERNAL OF VAULT/METER PIT) ARE SHOWN FOR CITY REVIEW ONLY. CONTRACTOR SHALL VERIFY ALL SIZES AND MATERIALS WITH M.E.P. BEFORE INSTALLATION.

LEGEND OF LABELS	
(A)	INSTALL 6" SDR 26 PVC LATERAL WITH CLEANOUTS AS SHOWN. WYE INTO EXISTING SANITARY SEWER STUB AS SHOWN. CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING SANITARY PIPE AND ROUTE AT 1% MINIMUM TO BUILDING. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION. REFER TO CLEANOUT DETAIL ON CE 5.1.
(B)	PROPOSED 3" TYPE K COPPER OR PEX WATERLINE SERVICE. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION. CONFIRM SIZE AND MATERIAL WITH M.E.P. PLANS.
(C)	PROPOSED 6" CPVC SPRINKLER LINE. REFER TO M.E.P. PLANS FOR BUILDING CONNECTION. CONFIRM SIZE AND MATERIAL WITH SPRINKLER DESIGNER.
(D)	PROPOSED VAULT/METER PIT. REFER TO CITY DETAIL WAT-11 ON CE 7.5. CONTRACTOR TO VERIFY SIZES WITH M.E.P. PRIOR TO INSTALLATION.
(E)	INSTALL 3" WATER METER AS SHOWN. CONTRACTOR TO VERIFY WITH M.E.P. PRIOR TO INSTALLATION. REFER TO CITY DETAIL WAT-11 ON CE 7.5.
(F)	PROPOSED TRANSFORMER. COORDINATE WITH M.E.P. AND UTILITY PROVIDER.
(G)	PROPOSED LIGHT POLE. REFER TO M.E.P. PLANS.
(H)	CONTRACTOR TO ASBUILT TOP OF CURB OPENING INLET. TOP TO BE ADJUSTED TO FINAL GRADE SHOWN ON CE 3.0-CE 3.4.
(I)	CONTRACTOR TO ASBUILT TOP OF SIDE OPENING INLET. TOP TO BE ADJUSTED TO FINAL GRADE SHOWN ON CE 3.0-CE 3.4. REPLACE SIDE OPENING TOP WITH EJ5636 FRAME AND GRATE.
(J)	CONTRACTOR TO TAP EXISTING 8" WATERLINE AND INSTALL 3" WATERLINE WITH 3" CORPORATION STOP VALVE AND 8"x3"x8" TEE AS SHOWN TO VAULT/METER PIT. CONTRACTOR TO VERIFY SIZE AND DEPTH AND FURNISH ALL FITTINGS AS REQUIRED. REFER TO "PRIVATE SITE DEVELOPMENT PLANS" BY OLSSON DATED 10/18/2023 FOR EXISTING PLANNED WATERLINE. REFER TO CITY OF LEE'S SUMMIT DETAILS ON CE 7.5.
(K)	PROPOSED FIRE DEPARTMENT CONNECTION (FDC). COORDINATE WITH ARCHITECT AND M.E.P.
(L)	PROPOSED 6" PVC INTERNAL STORM DRAINAGE SYSTEM CONNECTION. COORDINATE EXACT LOCATION WITH M.E.P. ROUTE 6" PVC TO DRAINAGE STRUCTURES AS SHOWN. REFER TO CE 5.1 FOR INVERTS.

REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

NATHAN THOMAS ECKHOFF  
PROFESSIONAL ENGINEER  
NUMBER: 200304960  
MISSOURI  
MISSOURI LICENSE: 200304960

PREPARED BY:

CROCKETT  
ENGINEERING CONSULTANTS  
1000 W. Illinois Blvd., Suite 100  
Columbia, Missouri 65203  
(314) 487-0292  
www.crockettengineering.com  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#000000001

OWNER:

DISCOVERY PARK LEES SUMMIT LLC  
4020 PHILLIPS FARM RD  
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY  
LOT 4  
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

UTILITY PLAN

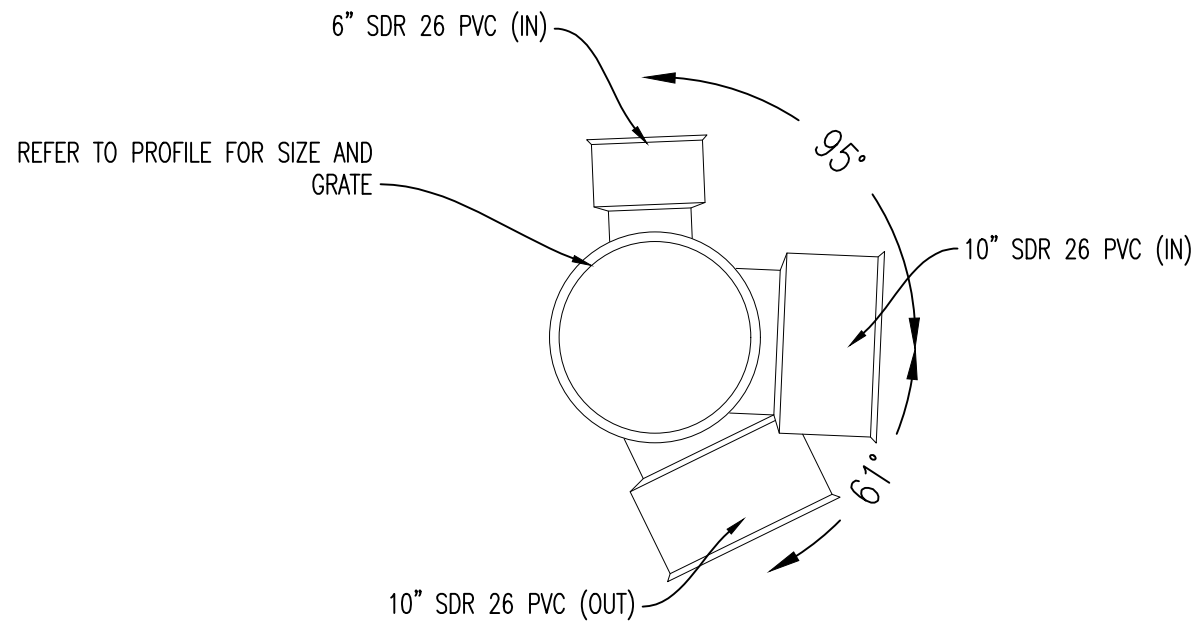
DESIGNED: NTE

DRAWN: NMD

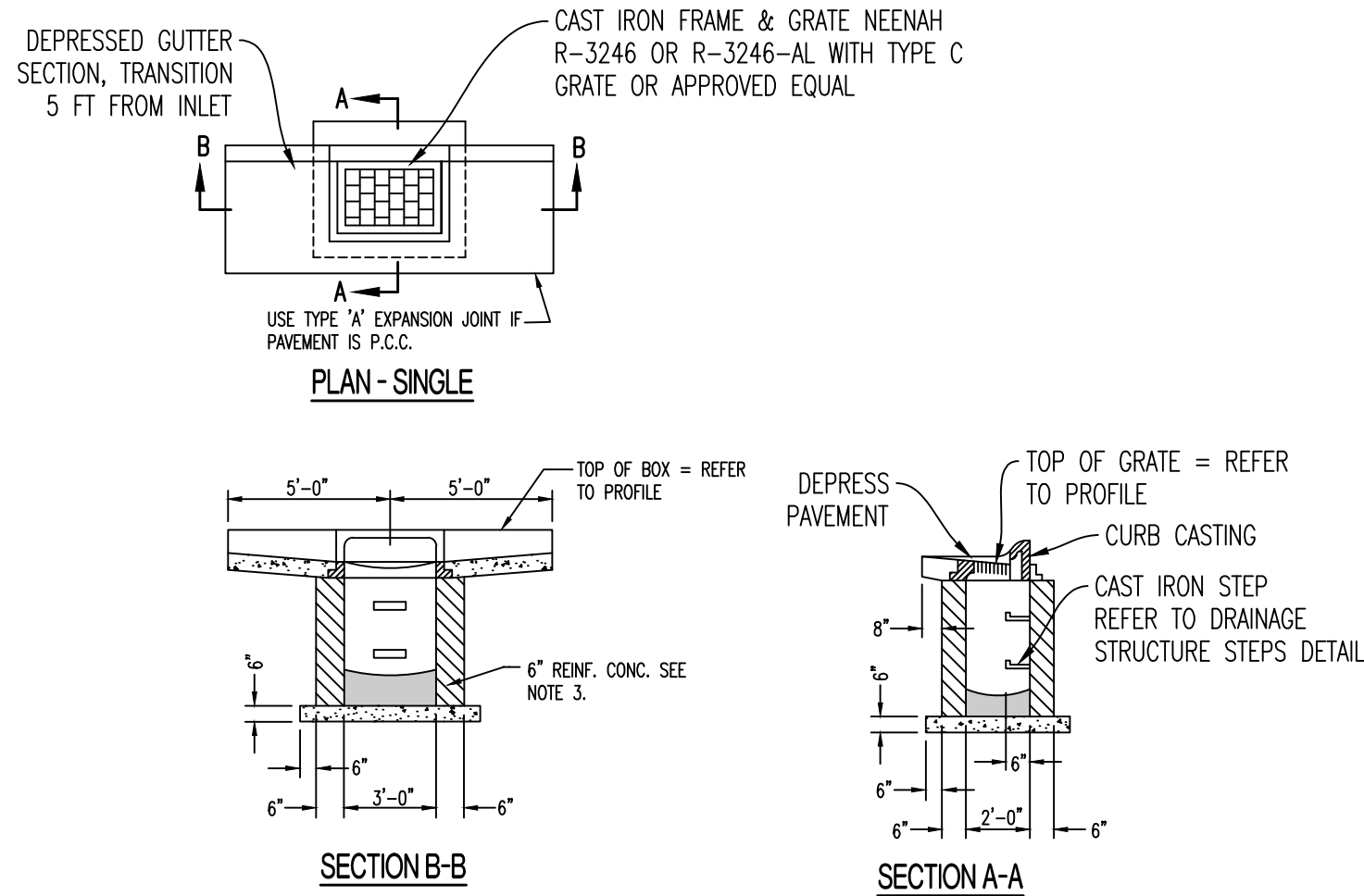
PROJECT NO.: 230286

SHEET:  
CE 4.1





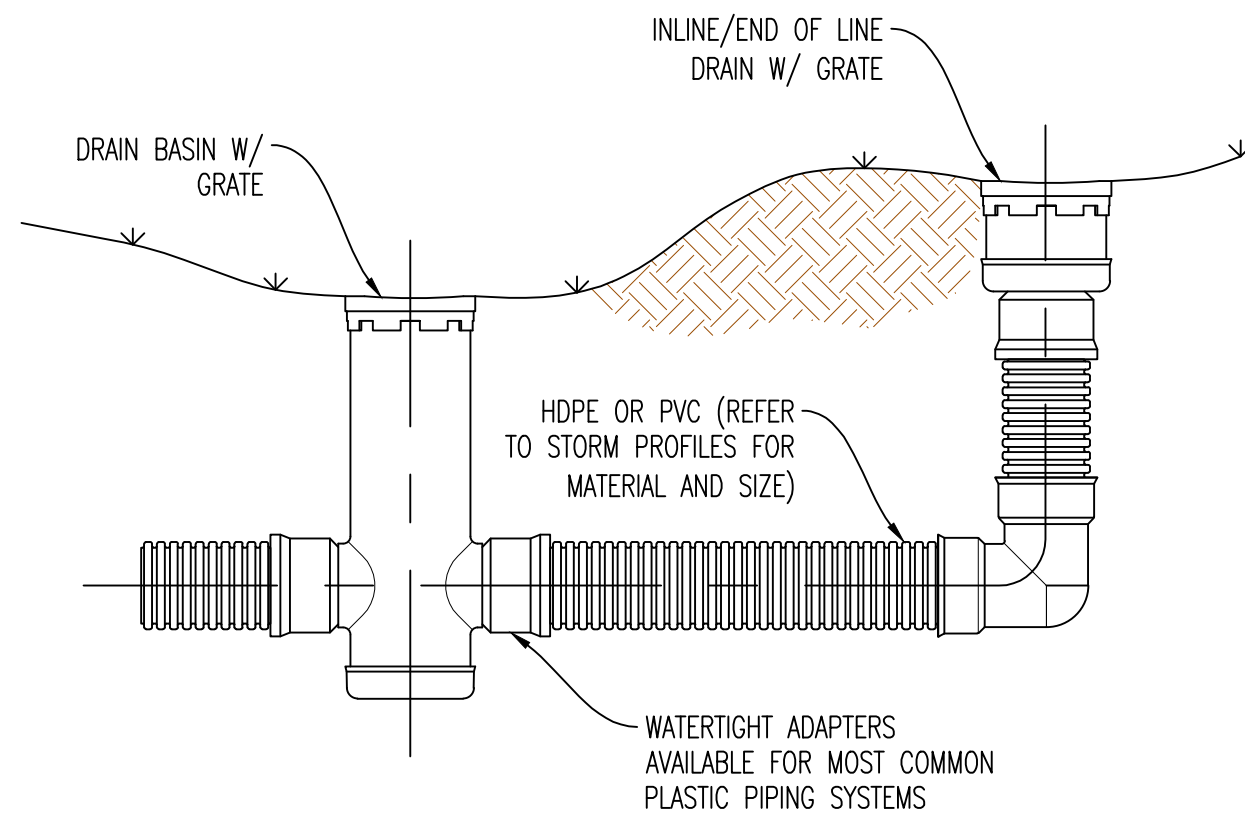
NYLOPLAST DRAIN BASIN - 2A



- NOTES:
1. CONCRETE SHALL CONFORM TO CONCRETE SPECIFICATIONS. REFER TO CE 1.1.
  2. REINFORCING STEEL SHALL BE GRADE 60
  3. #4 BARS AT 12" CTRS, BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS
  4. FOR BOX SIZES LARGER THAN THE GRATE, THE GRATE IS TO BE CENTERED ON THE BOX.

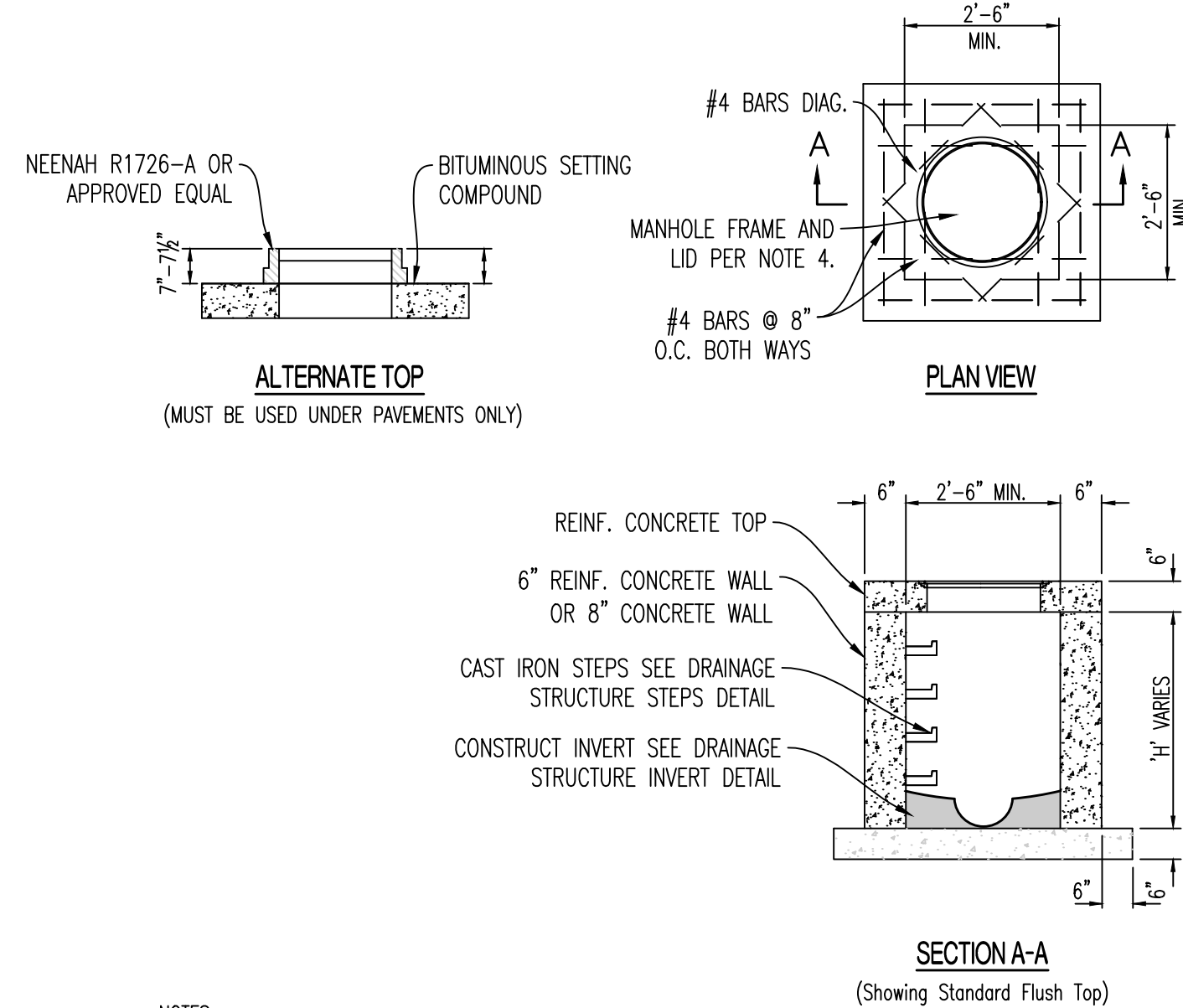
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SINGLE TYPE "A" INLET



2

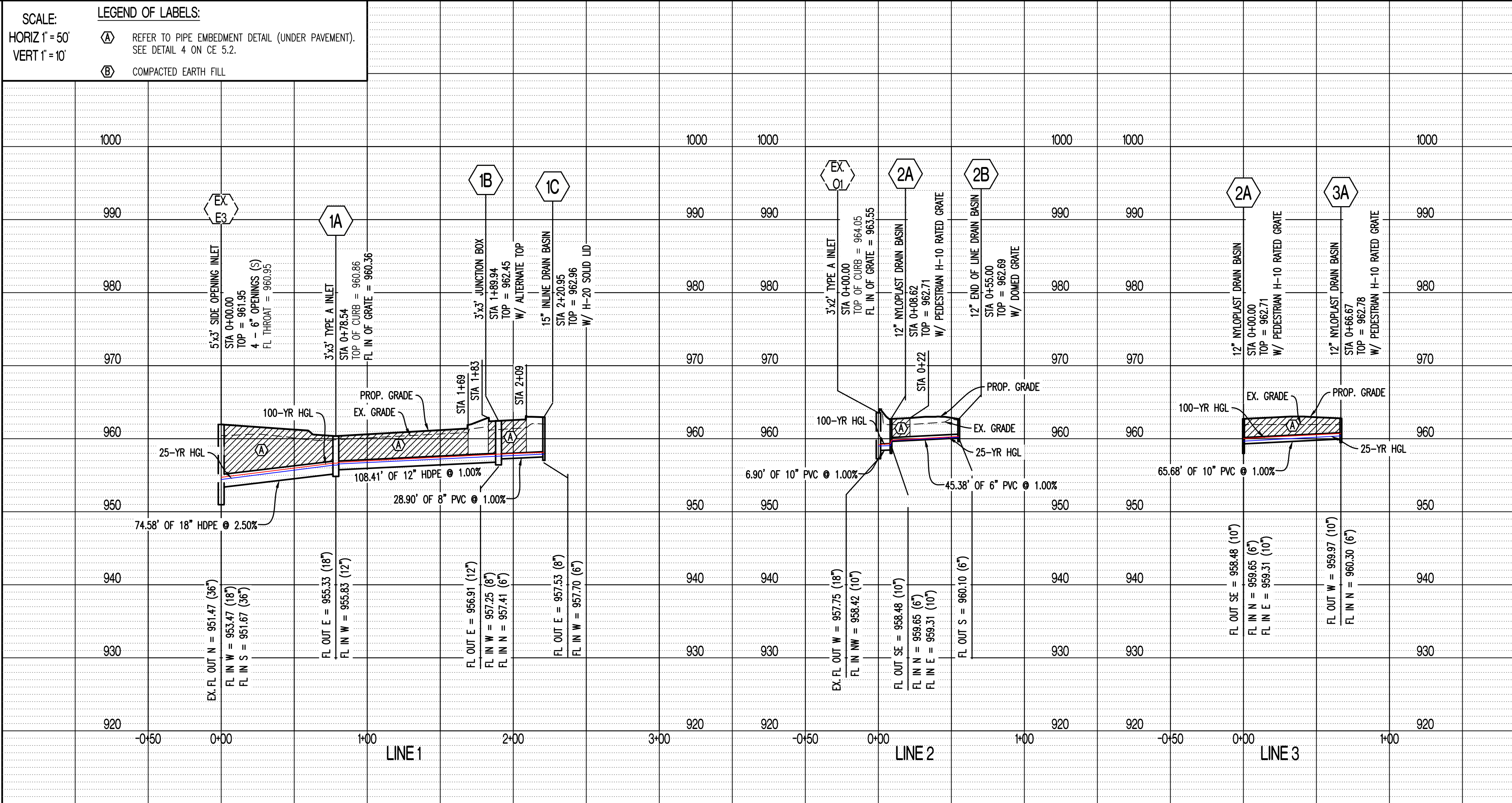
TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN



- NOTES:
1. CONCRETE SHALL BE CLASS E FOR BASES AND D FOR WALLS AND TOP.
  2. REINFORCING STEEL SHALL BE GRADE 60
  3. STRUCTURES WHERE H>8' SHALL BE REINFORCED CONCRETE (#4 BARS AT 12" CTRS, BOTH WAYS AND #4 BARS DIAGONAL AT PIPE OPENINGS)

3

JUNCTION BOX



REVISIONS:

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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

PE 2003014960

PROFESSIONAL ENGINEER

NATHAN THOMAS ECKHOFF

MO LICENSE 2003014960

PREPARED BY:

CROCKETT ENGINEERS & PLANNERS

1000 W. Wilson Blvd., Ste. 100

Columbia, Missouri 65203

(314) 487-0592

www.crockettengineering.com

Crockett Engineering Consultants, LLC

Missouri Certificate of Authority

2003014960

OWNER:

DISCOVERY PARK LEES SUMMIT LLC

4220 PHILLIPS FARM RD

COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY

LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

STORM PROFILE & DETAILS

DESIGNED: NTE

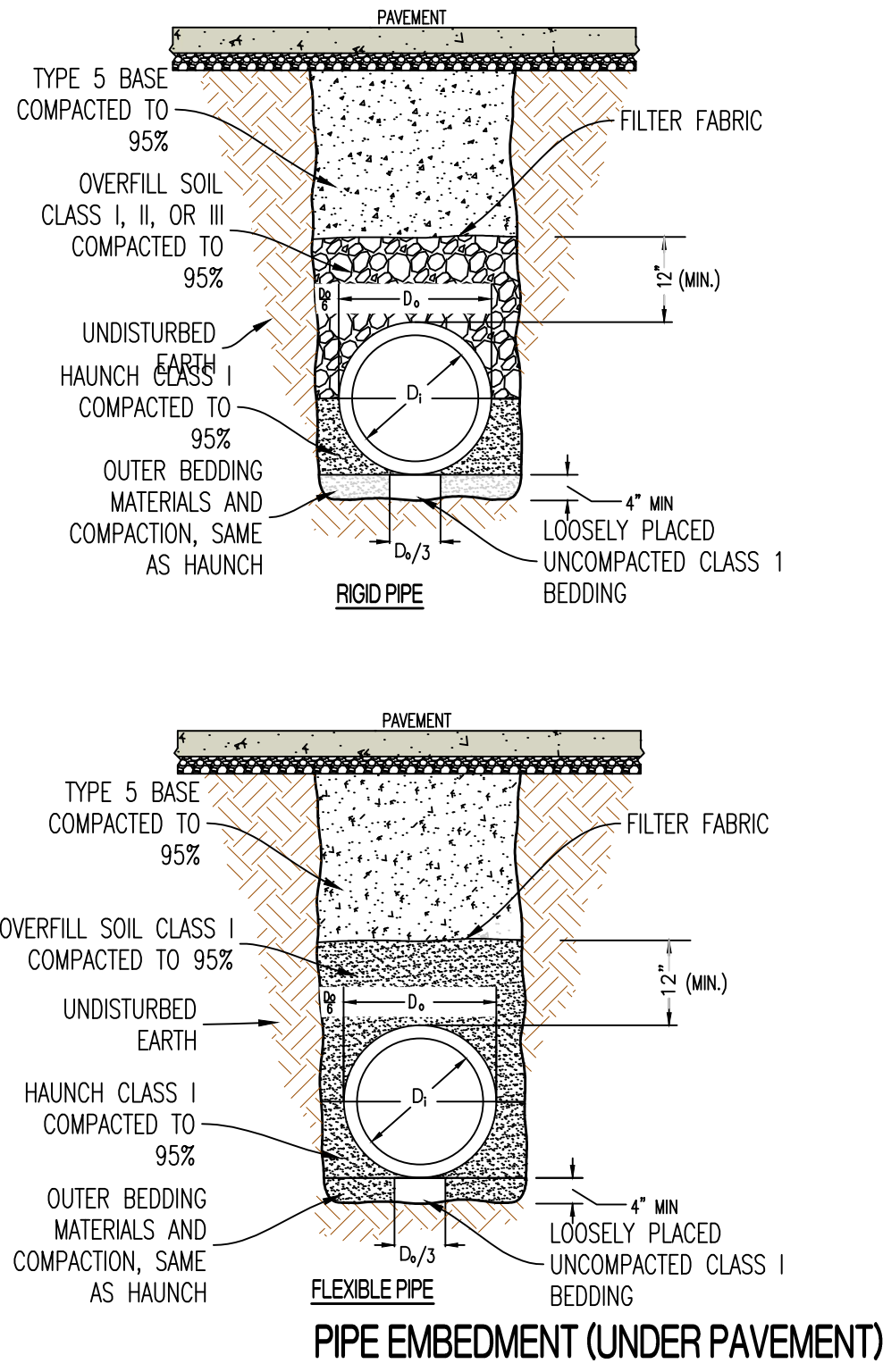
DRAWN: NMD

PROJECT NO.: 230286

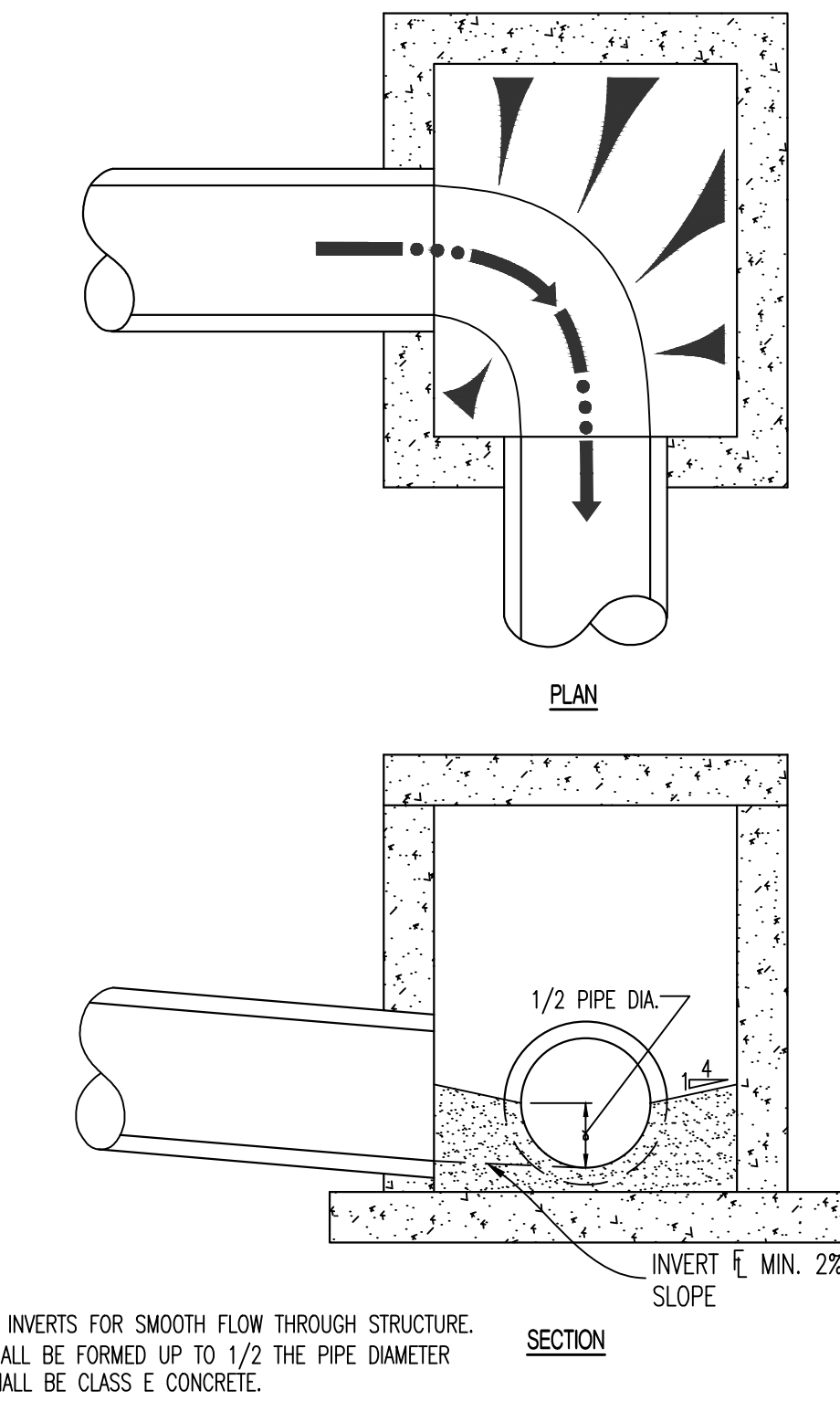
SHEET:

CE 5.1



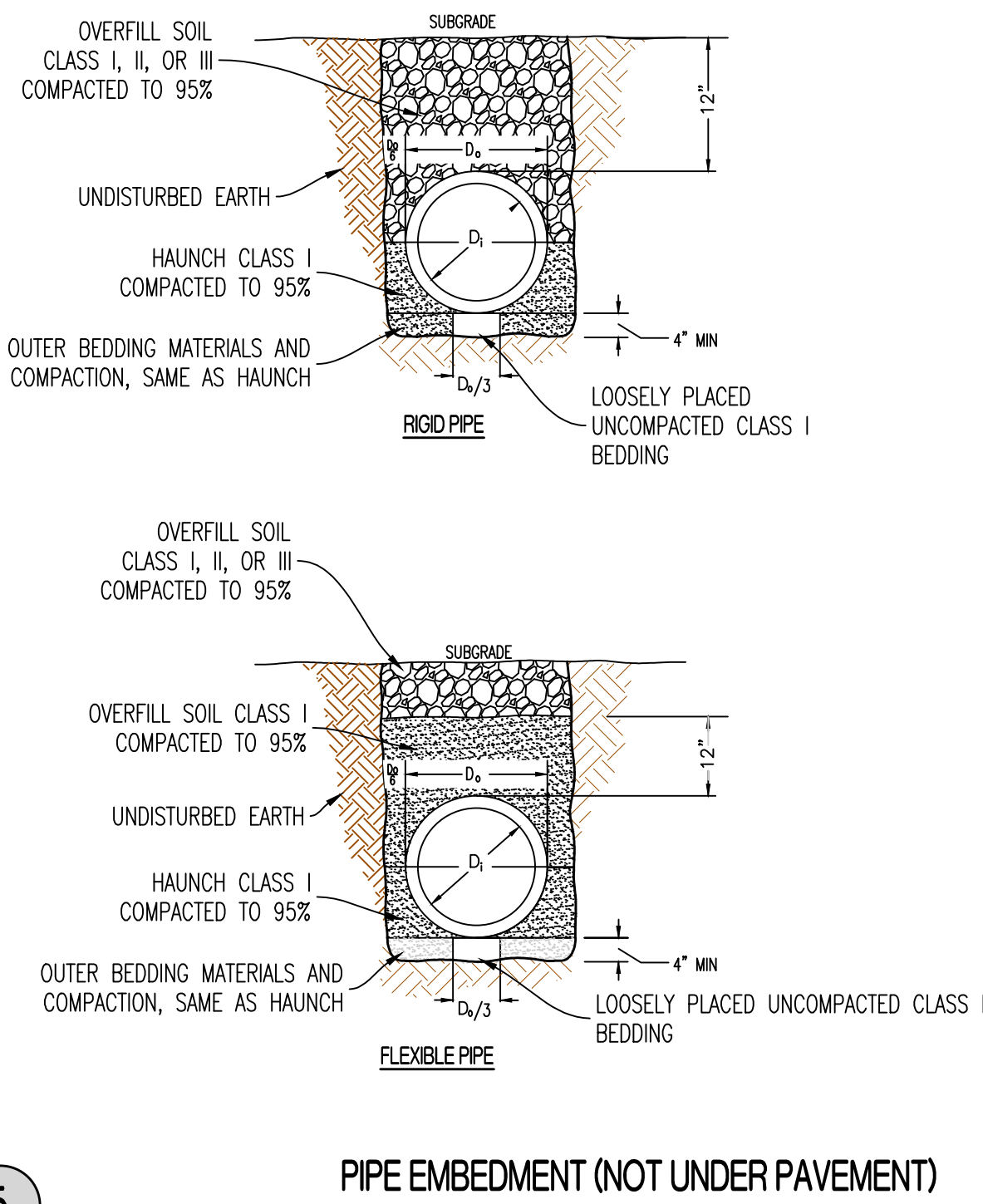


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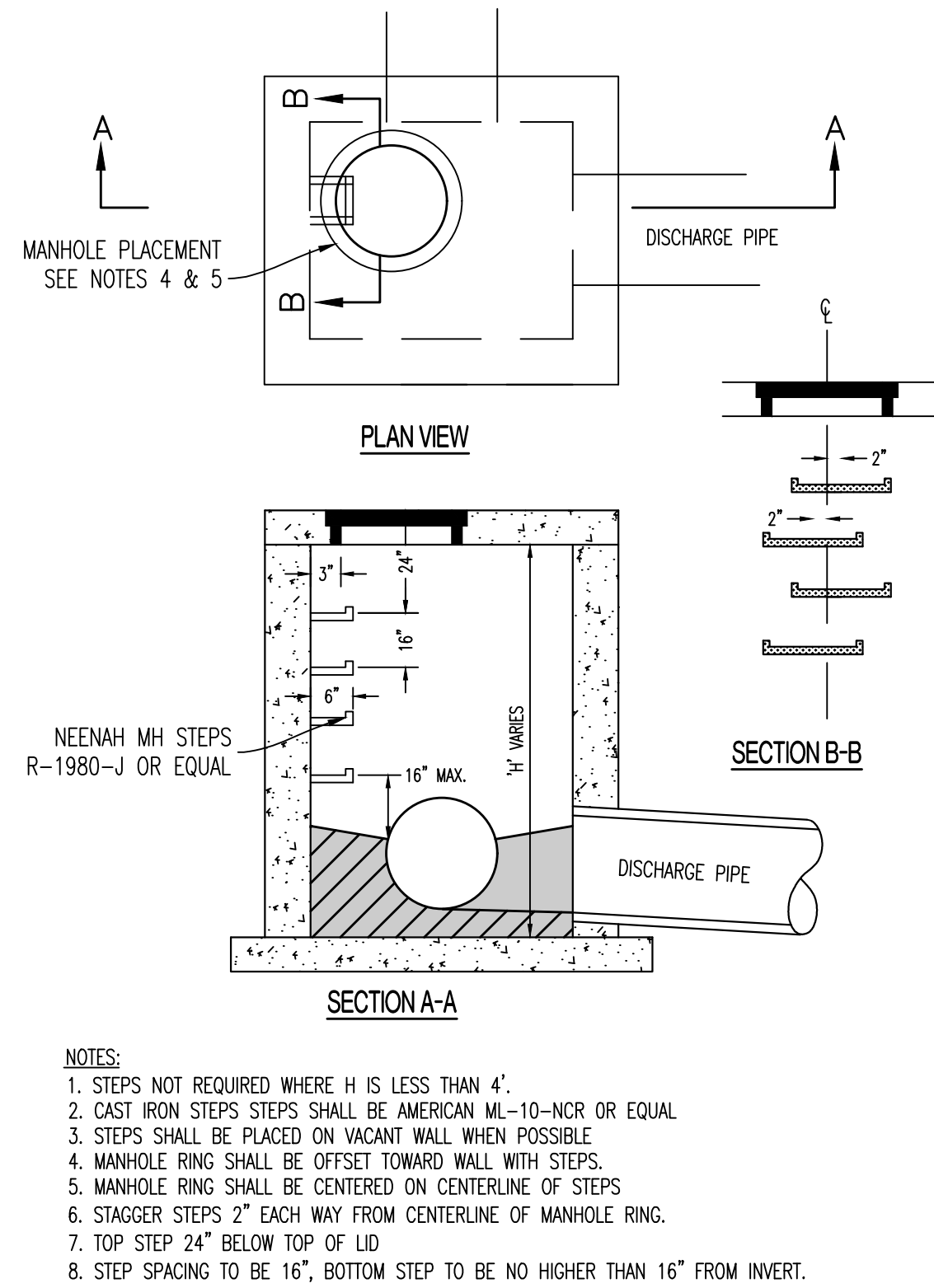
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DRAINAGE STRUCTURE INVERT



5

PIPE EMBEDMENT (NOT UNDER PAVEMENT)

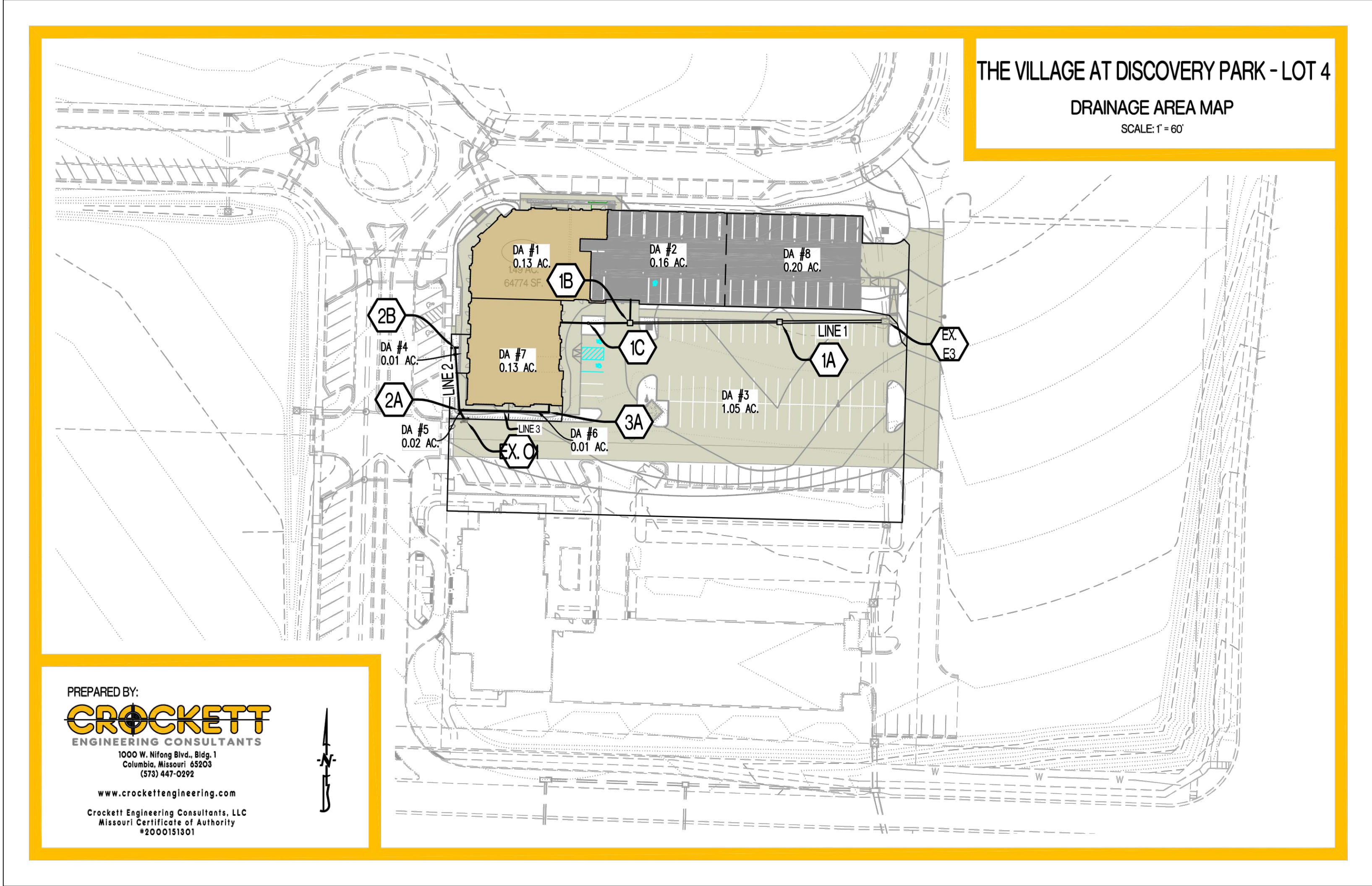


7

DRAINAGE STRUCTURE STEPS

REVISIONS:	
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ORIGINAL	06/14/2024
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	
NATHAN THOMAS ECKHOFF MO LICENSE 200304960	
PREPARED BY:	 ENGINEERS & CONSULTANTS 1000 W. Illinois Blvd., Ste. 100 Columbia, Missouri 65203 (314) 487-0292 www.crockettengineering.com Crockett Engineering Consultants, LLC Missouri Certificate of Authority #000000001
OWNER:	DISCOVERY PARK LEES SUMMIT LLC 4020 PHILLIPS FARM RD COLUMBIA, MO 65201
THE VILLAGE AT DISCOVERY LOT 4 LEES SUMMIT, JACKSON COUNTY, MISSOURI	
DRAWING INCLUDES:	
STORM DETAILS CONTO	
DESIGNED:	NTE
DRAWN:	NMD
PROJECT NO:	230286
SHEET:	CE 5.2





<div>CROCKETT</div> <div>ENGINEERING CONSULTANTS</div>		PROJECT: The Village at Discovery Park - Lot 4	
CALCULATED BY: NMD		CHECKED BY: NTE	
DATE: 06/13/24		PROJECT NO: 230286	

STORM HYDROLOGY / GUTTER / INLET CALCULATIONS																
DESCRIPTION			OVERLAND FLOW HYDROLOGY					GUTTER AND INLET HYDRAULICS					NOTES			
AREA NO.	STRUCTURE LABEL	INLET TYPE	TIME OF CONCENTRATION	RUNOFF COEFFICIENT	AREA	CA	RAINFALL INTENSITY	RUNOFF	GUTTER FLOW	GUTTER SLOPE	WIDTH OF GUTTER	DEPTH OF GUTTER	DEPTH OF OUTLET FLOW	THEORETICAL INLET CAPACITY	DESIGN INLET CAPACITY	
			min		acres	acres	in/hr	cfs	cfs	ft/ft	ft	ft	cfs	cfs	cfs	
1	1C	ROOF		0.99	0.13	0.13	10.3	133								INTERNAL ROOF DRAIN TO NYLOPLAST INTERNAL ROOF DRAIN TO JUNCTION BOX TYPE A IN SUMP - BYPASS TO EX E4 12" NYLOPLAST DRAIN W/ 04" PONDING (DOMED GRATE) 12" NYLOPLAST DRAIN W/ 0.3" PONDING (PEDESTRIAN GRATE) 12" NYLOPLAST DRAIN W/ 0.3" PONDING (PEDESTRIAN GRATE) EXISTING 5' X 3' CURB OPENING INLET INLET BYPASS FROM 1A INLET BYPASS FROM 1A
2	1B	ROOF		0.99	0.16	0.16	10.3	163								
3	1A	A		0.89	1.05	0.93	8.5	7.97						9.80	7.84	
4	2B	DB		0.99	0.01	0.01	10.3	0.10						1.48	1.18	
5	2A	DB		0.99	0.02	0.02	10.3	0.20						0.92	0.74	
6	3A	DB		0.99	0.01	0.01	10.3	0.10						0.92	0.74	
7	3A	ROOF		0.99	0.20	0.20	10.3	2.04								
8	EX E2	CI		0.89	0.20	0.18	8.5	1.52						5.90	4.72	
	EX E3	CI						0.13						5.90	4.72	

REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024

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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

PE 2003014960

PROFESSIONAL ENGINEER

NATHAN THOMAS ECKHOFF  
MO LICENSE: 2003014960

PREPARED BY:

**CROCKETT**  
ENGINEERING CONSULTANTS  
1000 W. Nifong Blvd., Bldg. 1  
Columbia, Missouri 65203  
(314) 447-0292  
[www.crockettengineering.com](http://www.crockettengineering.com)  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
#200015101

OWNER:

DISCOVERY PARK LEES SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA MO 65201

THE VILLAGE AT DISCOVERY

LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

25-YR STORM CALCULATIONS

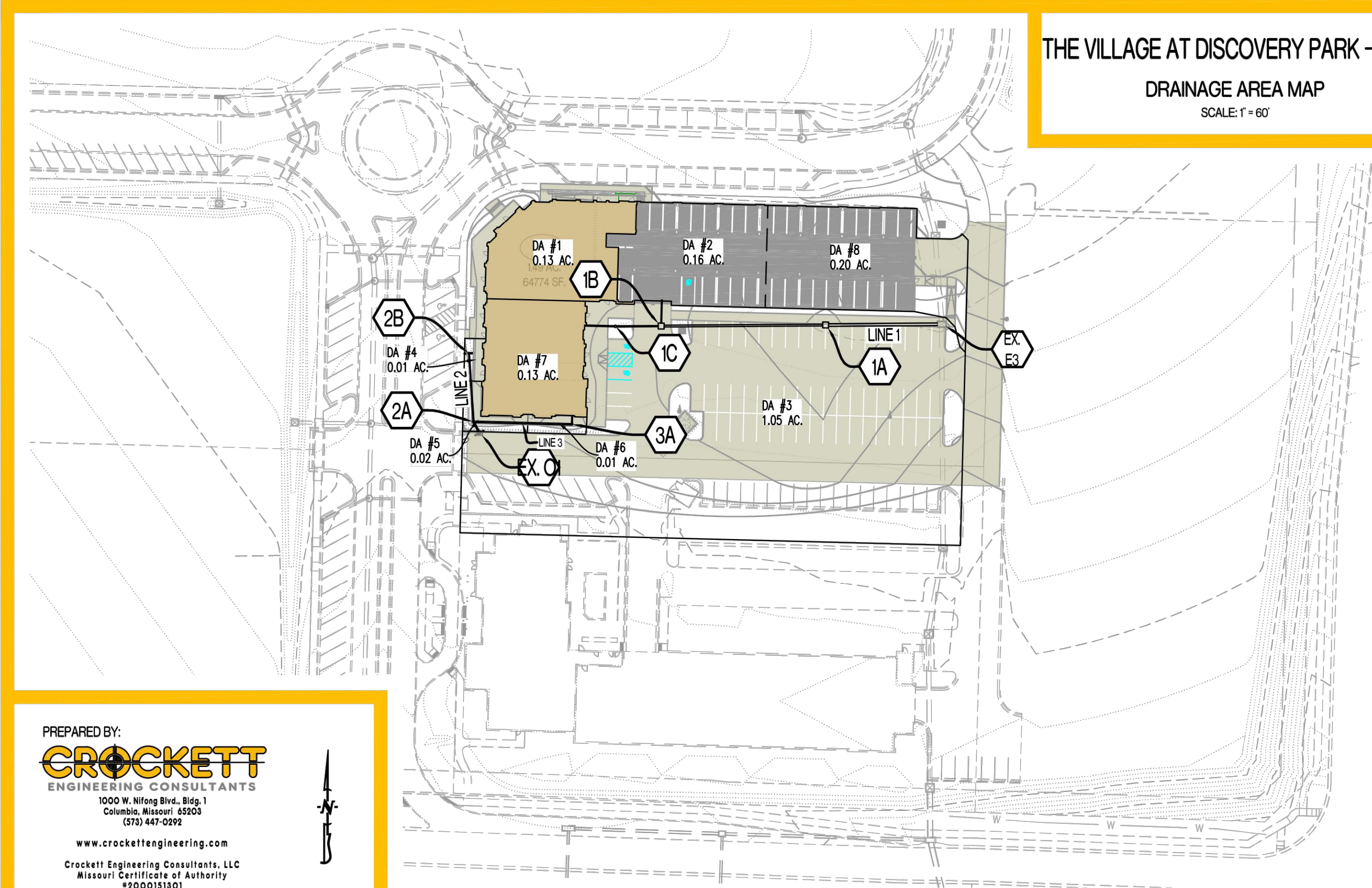
DESIGNED: NTE

DRAWN: NMD

PROJECT NO: 230286

SHEET: CE 5.3



[illegible]

STORM DRAIN PIPE SIZE													
DESCRIPTION		STORM DRAIN HYDRAULICS										NOTES	
AREA NO.	UPSTREAM STRUCTURE LABEL	TIME OF CONCENTRATION	CA			RAINFALL INTENSITY	RUNOFF	STORM DRAIN SLOPE	STORM DRAIN DRAINER	STORM DRAIN MATERIAL	CAPACITY FLOWING FULL	VELOCITY FLOWING FULL	
			ADDED	CUMUL	S&B								
													in
LINE 1													
1	1C	-5		0.13	10.32	1.33	0.010	8	PVC	143	4.09		
2	1B	-5	0.16	0.29	10.32	2.96	0.010	12	HDPE	3.86	4.91		
3	1A	-5	0.93	1.22	8.53	10.42	0.025	18	HDPE	17.98	10.18		
LINE 2													
4	2B	-5		0.01	10.32	0.10	0.010	6	PVC	0.66	3.38		
5 + LINE 3	2A	-5	0.23	0.24	10.32	2.45	0.010	10	PVC	2.59	4.75		
	EX O1	-5		0.24	10.32	2.45	0.020	18	HDPE	16.09	9.11	EX PIPE	
LINE 3													
3	3A	-5		0.21	10.32	2.15	0.010	10	PVC	2.59	4.75		

OWNER:  
DISCOVERY PARK LEES SUMMIT LLC  
4220 PHILLIPS FARM RD  
COLUMBIA MO 65201

THE VILLAGE AT DISCOVERY  
LOT 4  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:  
  
100-YR STORM  
CALCULATIONS

---

DESIGNED:	NTE
DRAWN:	NMD
PROJECT NO.:	230286

---

SHEET:

CE 5.4



PARKING CALCULATIONS	
<b>PARKING SUMMARY (LOT 4):</b>	
SPACES REQUIRED:	
COMMERCIAL (9,845 SQ. FT.):	
OFFICES	40 SPACES
4 PER 1,000 SQ. FT.	
(NOT MEDICAL, DENTAL, OR VETERINARY)	
RESIDENTIAL (46 UNITS):	
1.17 SPACES/UNIT PLUS 0.15 VISITOR SPACES/UNIT	61 SPACES
STANDARD SPACES REQUIRED:	101 SPACES
HANDICAP SPACES REQUIRED:	5 SPACES
SPACES PROVIDED:	
STANDARD SPACES PROVIDED:	98 SPACES
HANDICAP SPACES PROVIDED:	4 SPACES
EXISTING ADJACENT SPACES (TRACT B) PROVIDED:	14 SPACES
EXISTING ADJACENT HANDICAP SPACES (TRACT B) PROVIDED:	2 SPACES
TOTAL SPACES PROVIDED:	112 SPACES

LEGEND OF LABELS

- Ⓐ CONSTRUCT LIGHT DUTY CONCRETE W/ INTEGRAL CURB AS SHOWN. REFER TO DETAIL 1 & 2 ON CE 7.1.

Ⓑ TRANSITION FROM 6" CURB TO 0" CURB. REFER TO CE 3.0-CE 3.4.

Ⓒ DUMPSTER PAD AREA W/ INTEGRAL CURB AS SHOWN. REFER DETAIL 7 ON CE 7.1. REFER TO ARCHITECTURAL PLANS FOR PROPOSED DUMPSTER ENCLOSURE DETAILS.

Ⓓ PAINT 4" PARKING STALL STRIPES AS SHOWN, COLOR WHITE (TYPICAL) ALL STALLS EXCEPT ADA ACCESSIBLE STALLS. REFER TO PLAN FOR WIDTH AND DEPTH OF STALLS.

Ⓔ CONSTRUCT ADA ACCESSIBLE PARKING AREA WITH SIGNAGE AND ADA RAMPS. PAINT 4" STRIPE AND ACCESSIBLE SYMBOL, COLOR BLUE. PAINT HATCH AREA AS SHOWN, COLOR BLUE. SLOPE OF THE PAVEMENT AT ALL ACCESSIBLE STALLS SHALL NOT EXCEED 1:50. REFER TO DETAIL 10 ON CE 7.2.

Ⓕ CONSTRUCT 4" THICK, PCC WALK PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER DETAIL 5 ON CE 7.1.

Ⓖ CONSTRUCT THICKENED EDGE SIDEWALK/PAVEMENT ABUTTING BUILDING PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER TO DETAIL 4 ON CE 7.1.

Ⓗ CONSTRUCT THICKENED EDGE SIDEWALK WALK AT BACK OF CURB PER PLAN DIMENSIONS AS SHOWN (MAXIMUM LONGITUDINAL SLOPE 1:20. MAXIMUM CROSS SLOPE AT 1:50). REFER TO DETAIL 3 ON CE 7.1.

Ⓢ CONSTRUCT ADA ACCESSIBLE SIDEWALK RAMP AT BACK OF CURB. REFER TO DETAIL 8 ON CE 7.1.
- Ⓜ CONSTRUCT ADA ACCESSIBLE SIDEWALK RAMP WITH FLARE AT BACK OF CURB. REFER TO DETAIL 9 ON CE 7.1.

Ⓚ CONSTRUCT ADA ACCESSIBLE SIDEWALK RAMP WITH HANDRAIL. REFER TO DETAIL 11 ON CE 7.2.

Ⓛ INSTALL PCC STAIRS WITH HANDRAIL IN SIDEWALK. REFER TO DETAIL 12 ON CE 7.2 REFER TO CE 3.0-CE 3.4 FOR ELEVATIONS.

Ⓜ INSTALL TYPE A OR TYPE A ALTERNATE EXPANSION JOINT IN PAVING. REFER TO DETAIL 6 ON CE 7.1.

Ⓝ INSTALL TYPE B CONSTRUCTION JOINT WHERE PROPOSED CONCRETE PAVING ABUTS EXISTING CONCRETE PAVING. REFER TO DETAIL 6 ON CE 7.1.

Ⓢ INSTALL TYPE C SAW JOINT IN PAVEMENT, MAXIMUM 12'X12" SQUARES (TYPICAL). REFER TO DETAIL 6 ON CE 7.1.

Ⓟ PROPOSED TRANSFORMER PAD. COORDINATE WITH M.E.P. FOR EXACT SIZE AND LOCATION.

Ⓠ 5' STREET-SIDE SIDEWALK TO BE CONSTRUCTED. REFER TO OLSSON PLANS TITLED "PRIVATE SITE DEVELOPMENT PLANS FOR THE VILLAGE AT DISCOVERY PARK ZONE 1" DATED 10/18/2023.

Ⓡ CONSTRUCT RETAINING WALL WITH GUARDRAIL PRIOR TO SIDEWALK CONSTRUCTION AS SHOWN. REFER TO CE 3.0-CE 3.4 FOR WALL HEIGHT. REFER TO DETAILS 14 & 15 ON CE 7.3.

Ⓢ INSTALL PIPE BOLLARD AS SHOWN. REFER TO DETAIL 13 ON CE 7.3.

GENERAL NOTES:

- 1) ALL ACCESSIBLE PARKING SHALL COMPLY WITH THE REQUIREMENTS OF THE FEDERAL AMERICANS WITH DISABILITIES ACT.
- 2) THE PAVEMENT JOINTS SHOWN ARE A GRAPHICAL REPRESENTATION OF A POSSIBLE JOINT CONTRACTOR TO PROVIDE SHOP DRAWINGS WITH JOINT LAYOUT FOR APPROVAL BY ENGINEER PRIOR TO POURING OF PAVEMENT.
- 3) REFER TO ARCHITECTURAL PLANS FOR PARKING GARAGE LAYOUT. PARKING GARAGE PAVEMENT SHALL MATCH CROSS SECTION OF EXTERIOR PARKING LOTS.

CALCULATIONS: LOT 7

LAND AREA:		
TOTAL LAND AREA:		1.49 AC
BUILDING DETAILS:		
1ST FLOOR:	9,845 SQ.FT.	
2ND FLOOR:	24,285 SQ.FT.	
3RD FLOOR:	24,285 SQ.FT.	
TOTAL S.F. (3-STORIES)	58,415 SQ.FT.	
LOT COVERAGES:		ACTUAL
NET LAND AREA:	64,774 SQ.FT.	100%
TOTAL IMPERVIOUS SURFACE AREA:	54,694 SQ.FT.	84%
TOTAL OPEN SPACE:	10,080 SQ.FT.	16%
FLOOR AREA RATIO:		90%

REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024

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NATHAN THOMAS ECKHOFF  
MO LICENSE 200304960

PREPARED BY:  
**CROCKETT**  
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OWNER:  
DISCOVERY PARK LEES SUMMIT LLC  
4020 PHILLIPS FARM RD  
COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY  
LOT 4  
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

SITE PLAN

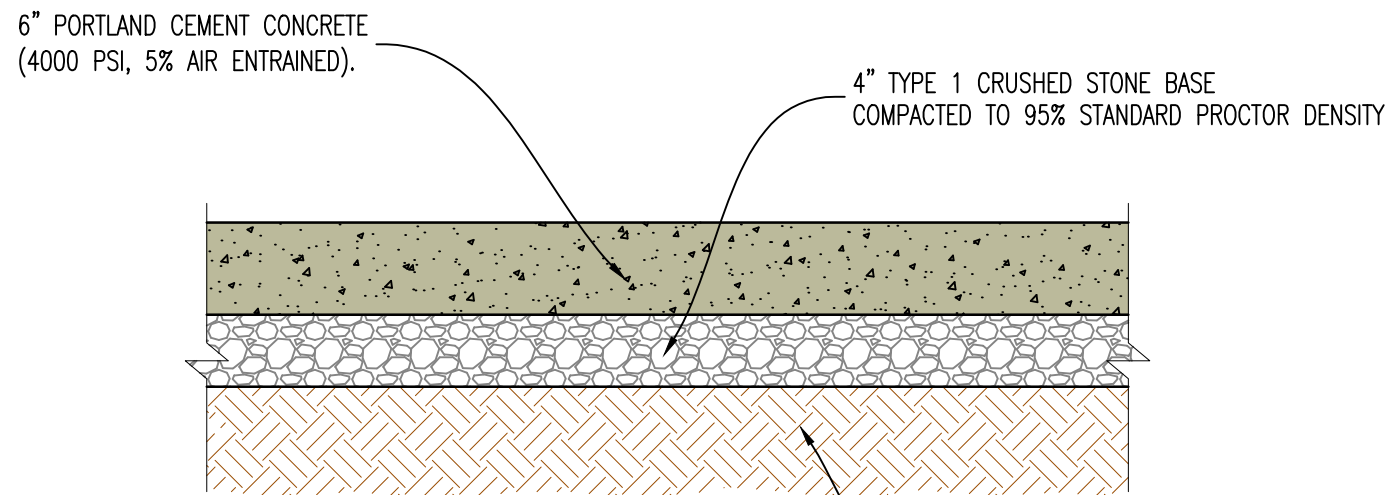
DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

SHEET:  
CE 6.1

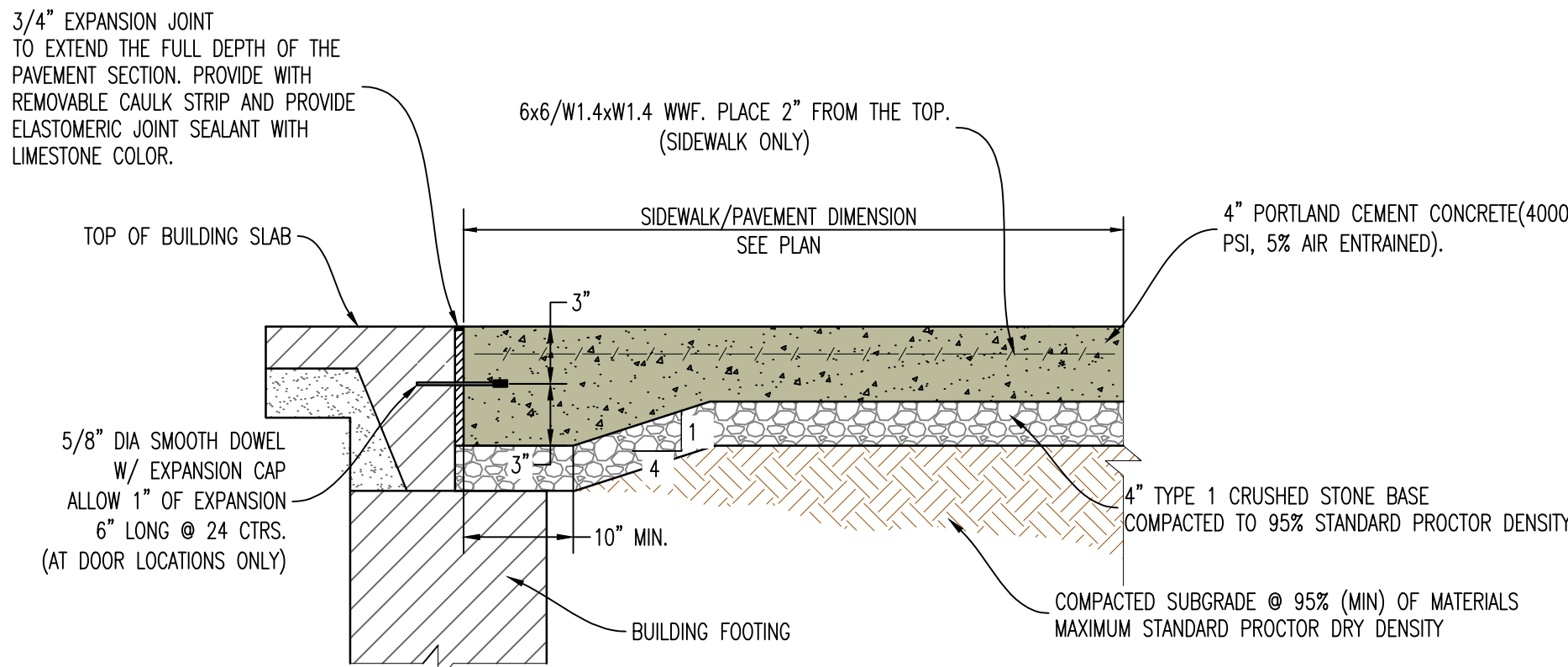




NOTES:  
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

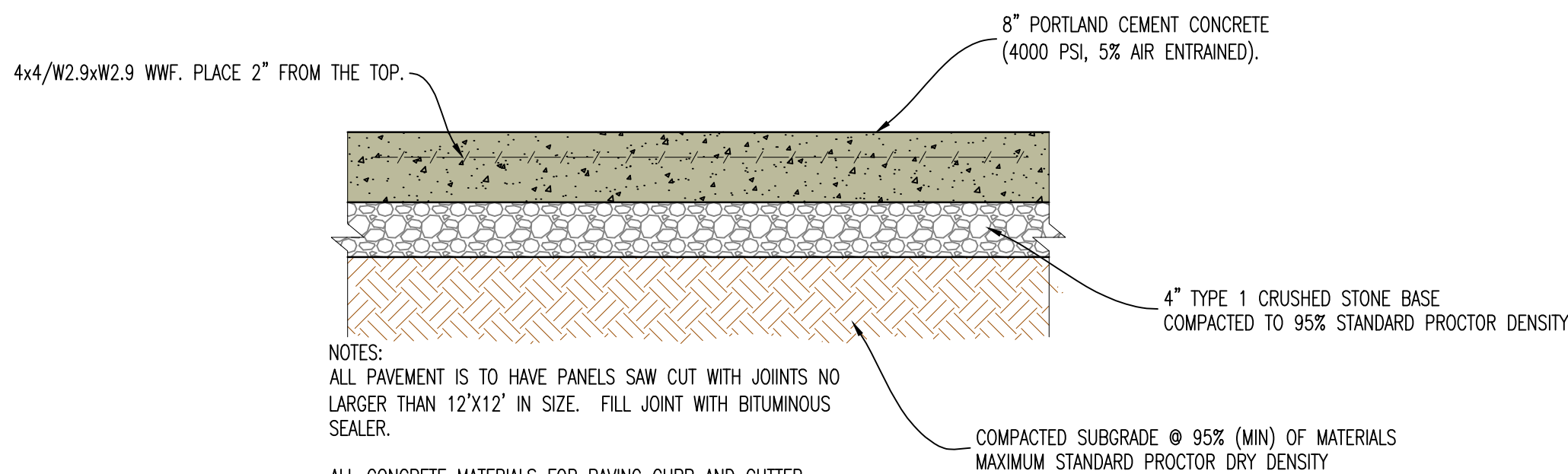
1 LIGHT DUTY CONCRETE PAVEMENT CROSS-SECTION



NOTES:  
ALL LOW VOLUME CHANGE MATERIAL IN LOCATIONS OF SIDEWALK/PAVEMENT PLACED NEXT TO BUILDING IS TO BE REMOVED COMPLETELY AND REPLACED WITH TYPE 1 CRUSHED STONE BASE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO SIDEWALK/PAVEMENT INSTALLATION. JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

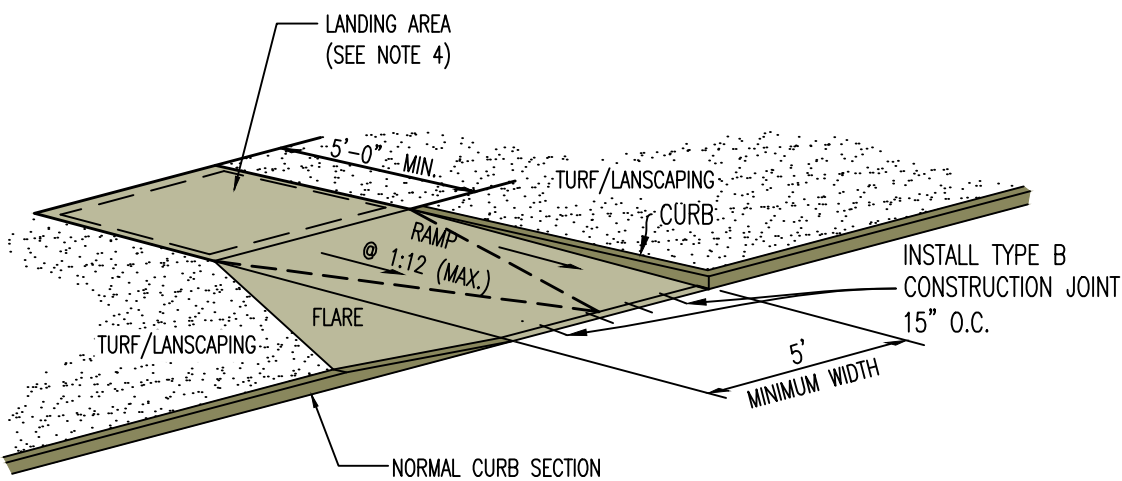
4 SIDEWALK/PAVEMENT ABUTTING BUILDING



NOTES:  
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

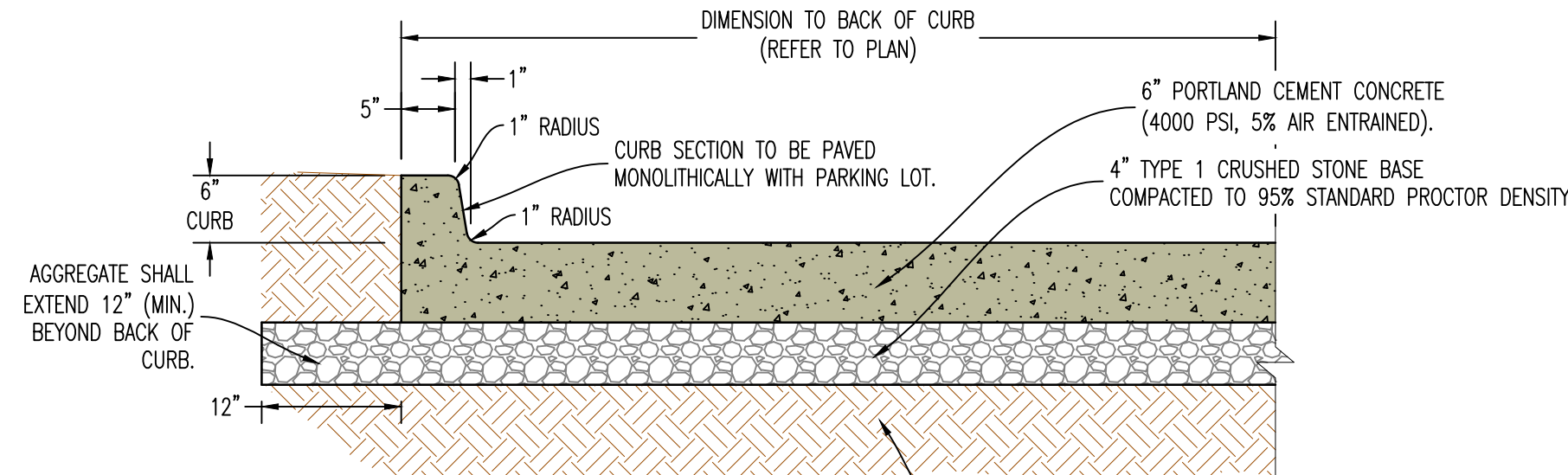
7 HEAVY DUTY CONCRETE PAVEMENT CROSS-SECTION (REINFORCED)



NOTES

- RAMP SHALL BE 6" THICK (MIN.) PCC CONCRETE WITH 6X6/W1.4XW1.4 WWF. PLACE 2" FROM THE TOP.
- CURB RAMP SHALL NOT HAVE A RISE GREATER THAN 0.5'.
- RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE. REFER TO GRADING PLAN.
- MAIN LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
- FLARE SLOPE NOT TO EXCEED 1:10.
- ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

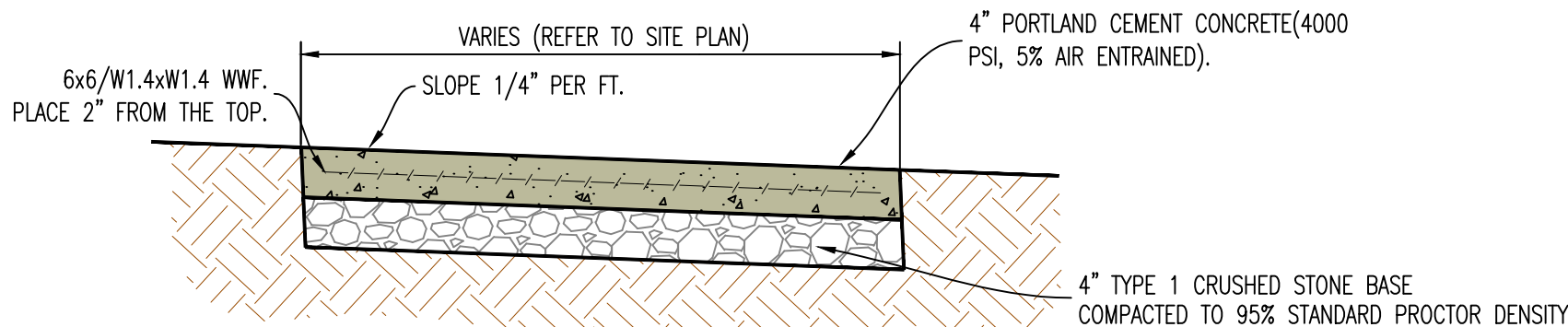
9 SIDEWALK RAMP WITH CURB AND FLARE



NOTES:  
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. FILL JOINT WITH BITUMINOUS SEALER.

ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

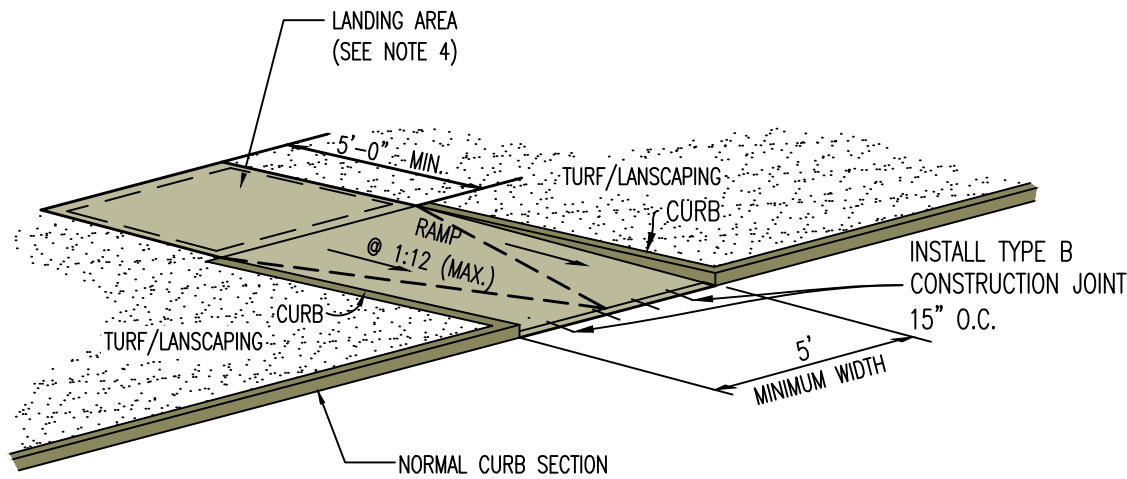
2 6" CONCRETE BARRIER CURB CROSS-SECTION



NOTE:

- INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS, STRUCTURES, AND DRIVEWAY APPROACHES. MAX. EXPANSION JOINT SPACING = 150'
- INSTALL TRANSVERSE SAW JOINTS AT SPACING = SIDEWALK WIDTH. JOINT SEALER TO BE NON-BITUMINOUS (COLOR GRAY)
- ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

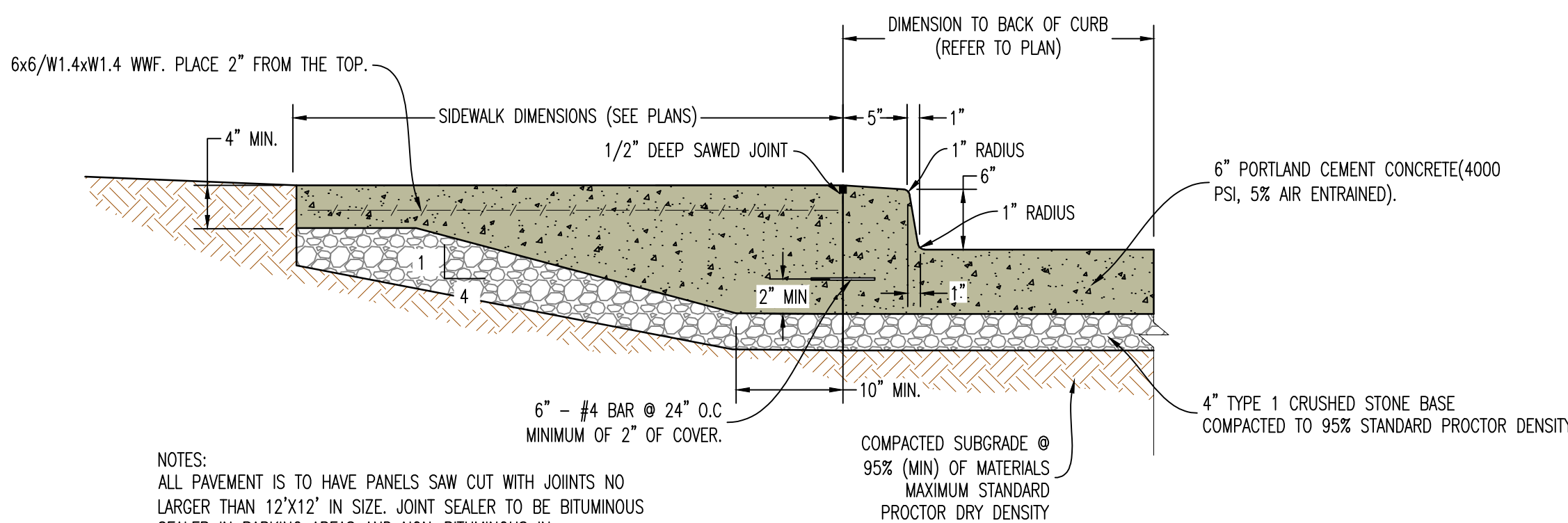
5 TYPICAL CONCRETE SIDEWALK



NOTES

- RAMP SHALL BE 6" THICK (MIN.) PCC CONCRETE WITH 6X6/W1.4XW1.4 WWF. PLACE 2" FROM THE TOP.
- CURB RAMP SHALL NOT HAVE A RISE GREATER THAN 0.5'.
- RAMP LENGTH IS DEPENDENT ON 1:12 MAX. SLOPE. USE FLATTER WHEN POSSIBLE. REFER TO GRADING PLAN.
- MAIN LANDING AREA AT TOP OF RAMP SHALL BE 4'-0" MIN WIDTH, CROSS SLOPE OF LANDING SHALL NOT EXCEED 2.0% IN ANY DIRECTION.
- ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

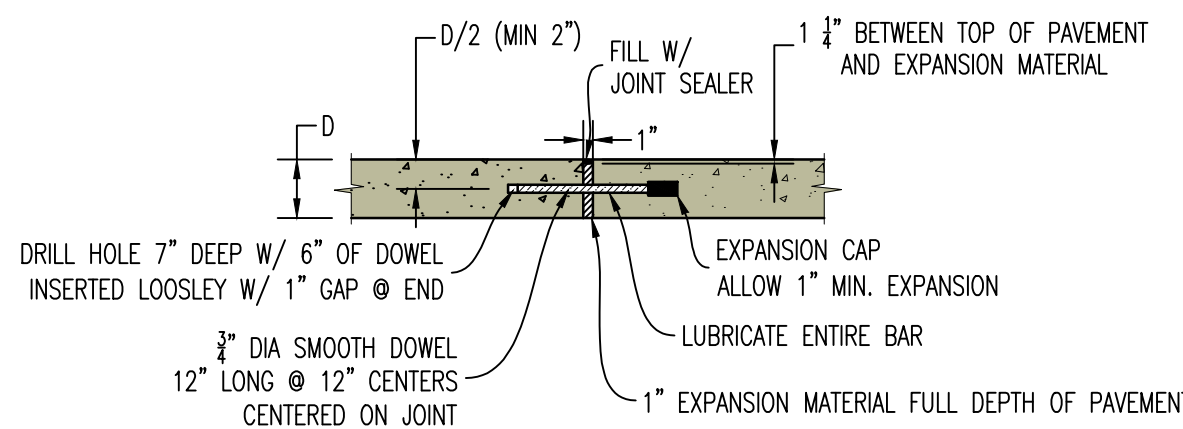
8 SIDEWALK RAMP WITH CURB



NOTES:  
ALL PAVEMENT IS TO HAVE PANELS SAW CUT WITH JOINTS NO LARGER THAN 12'X12' IN SIZE. JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

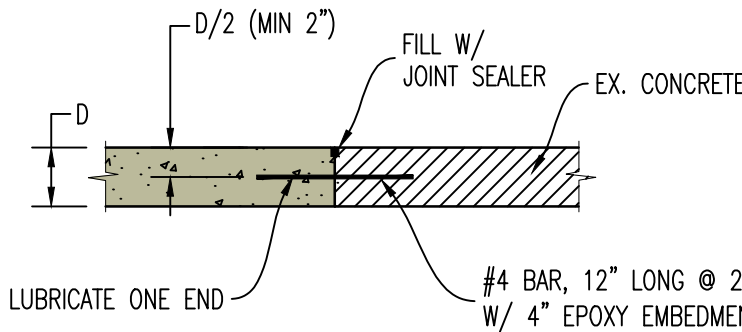
ALL CONCRETE MATERIALS FOR PAVING CURB AND GUTTER, SIDEWALKS, PATHS, COMMERCIAL DRIVEWAYS AND OTHER PAVEMENTS SHALL CONFORM TO THE KOMMB SPECIFICATIONS.

3 THICKENED EDGE SIDEWALK WITH INTEGRAL CURB & GUTTER

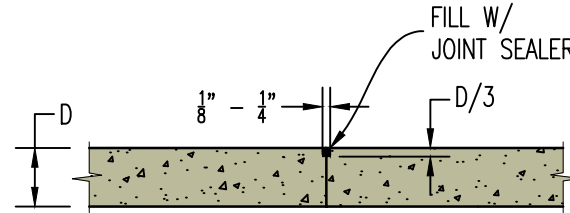


- ALL BARS TO BE INSTALLED PERPENDICULAR TO EDGE AND IN SAME PLANE TO PREVENT LOCKING OF JOINT.
- EDGE OF PAVEMENT TO BE SAWED/FORMED TO A CLEAN EDGE FOR INSTALLATION OF EXPANSION JOINT.

TYPE A- EXPANSION JOINT

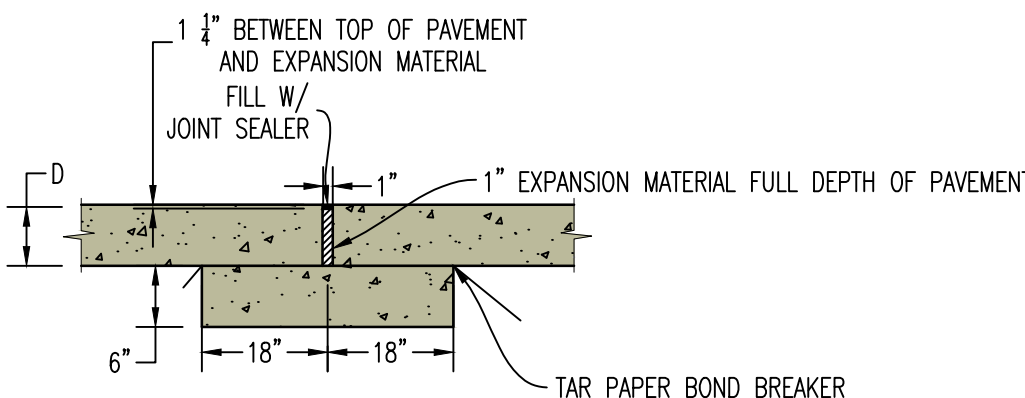


TYPE B- CONSTRUCTION JOINT



NOTE:  
MAXIMUM DISTANCE BETWEEN SAW JOINTS TO BE 12'

TYPE C- CONTROL JOINT 'SAWED'



TYPE A-ALTERNATE  
CONCRETE SILL

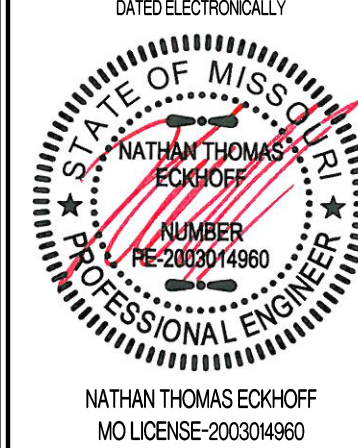
NOTE:  
JOINT SEALER TO BE BITUMINOUS SEALER IN PARKING AREAS AND NON-BITUMINOUS IN SIDEWALK/WALKING SURFACES (COLOR GRAY)

6 CONCRETE PAVEMENT JOINT DETAILS

REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024

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4220 PHILLIPS FARM RD  
COLUMBIA MO 65201

THE VILLAGE AT DISCOVERY  
LOT 4  
LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

DETAILS SHEET 1

DESIGNED: NTE

DRAWN: NMD

PROJECT NO: 230286

SHEET:  
CE 7.1

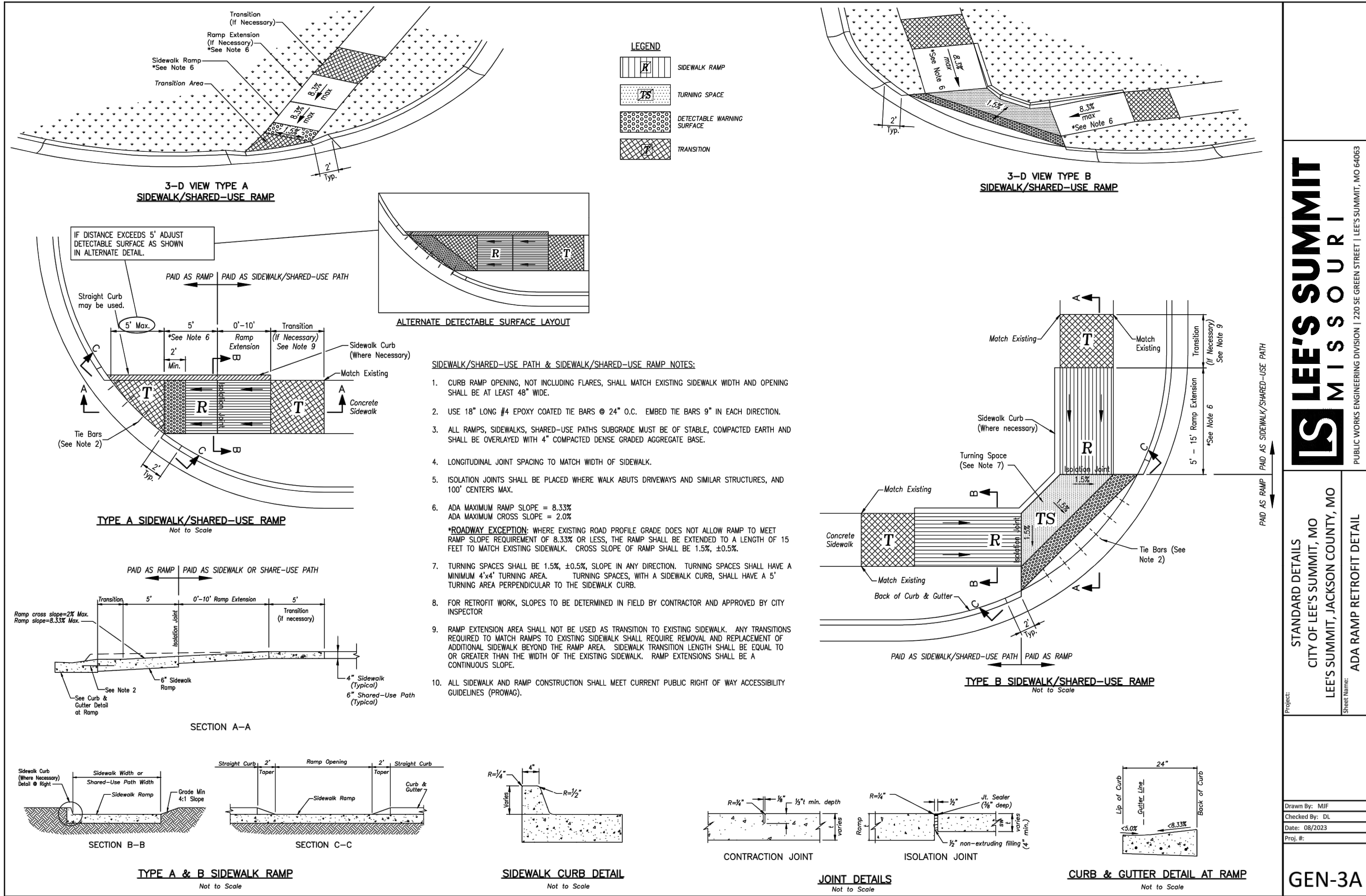












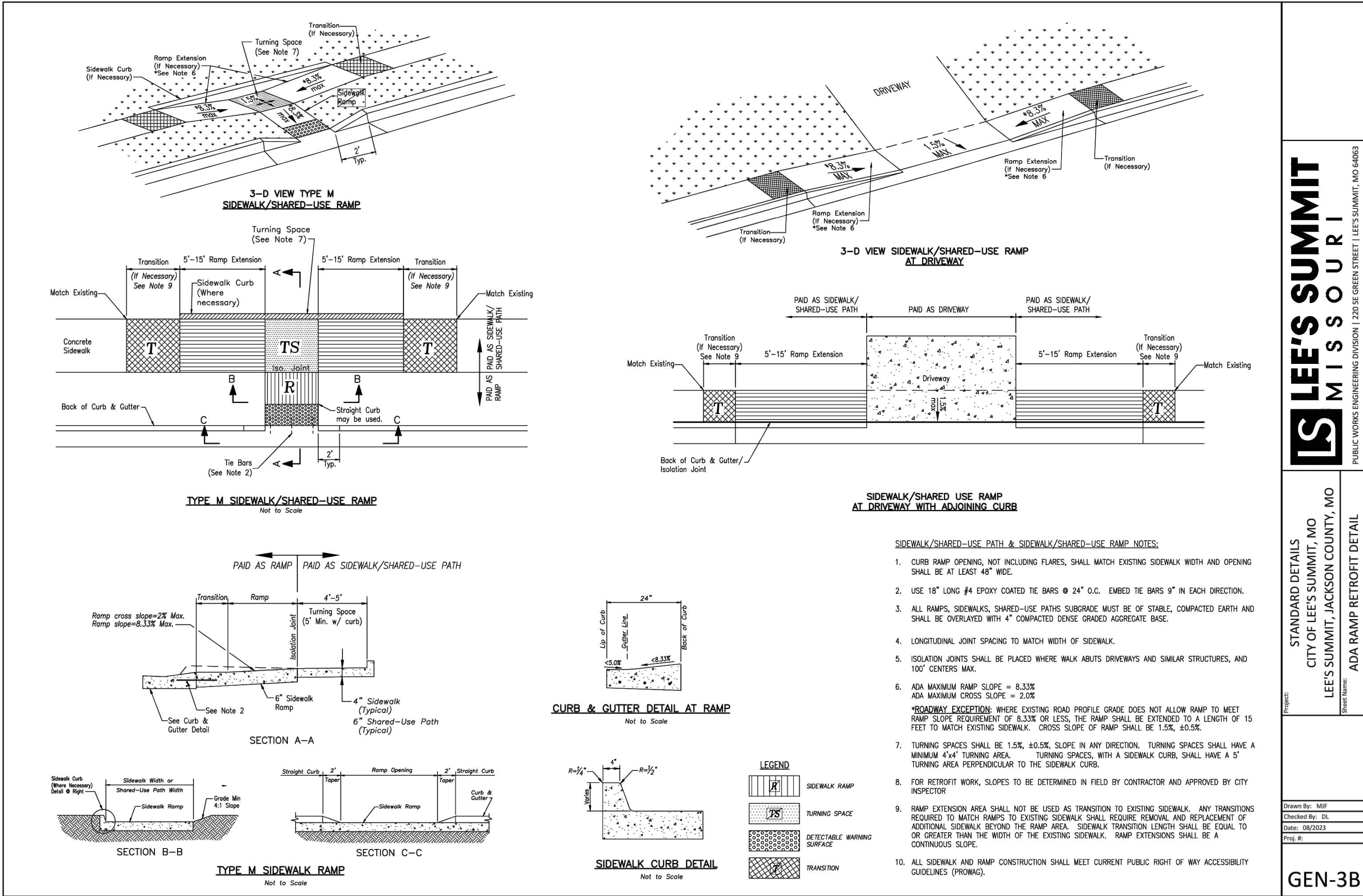
**IS LEE'S SUMMIT MISSOURI**

PUBLIC WORKS ENGINEERING DIVISION | 1202 DE GREEN STREET | LEE'S SUMMIT, MO 64063

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

ADA RAMP RETROFIT DETAIL

Drawn By: MAF  
Checked By: DL  
Date: 08/2023  
Proj. #: GEN-3A



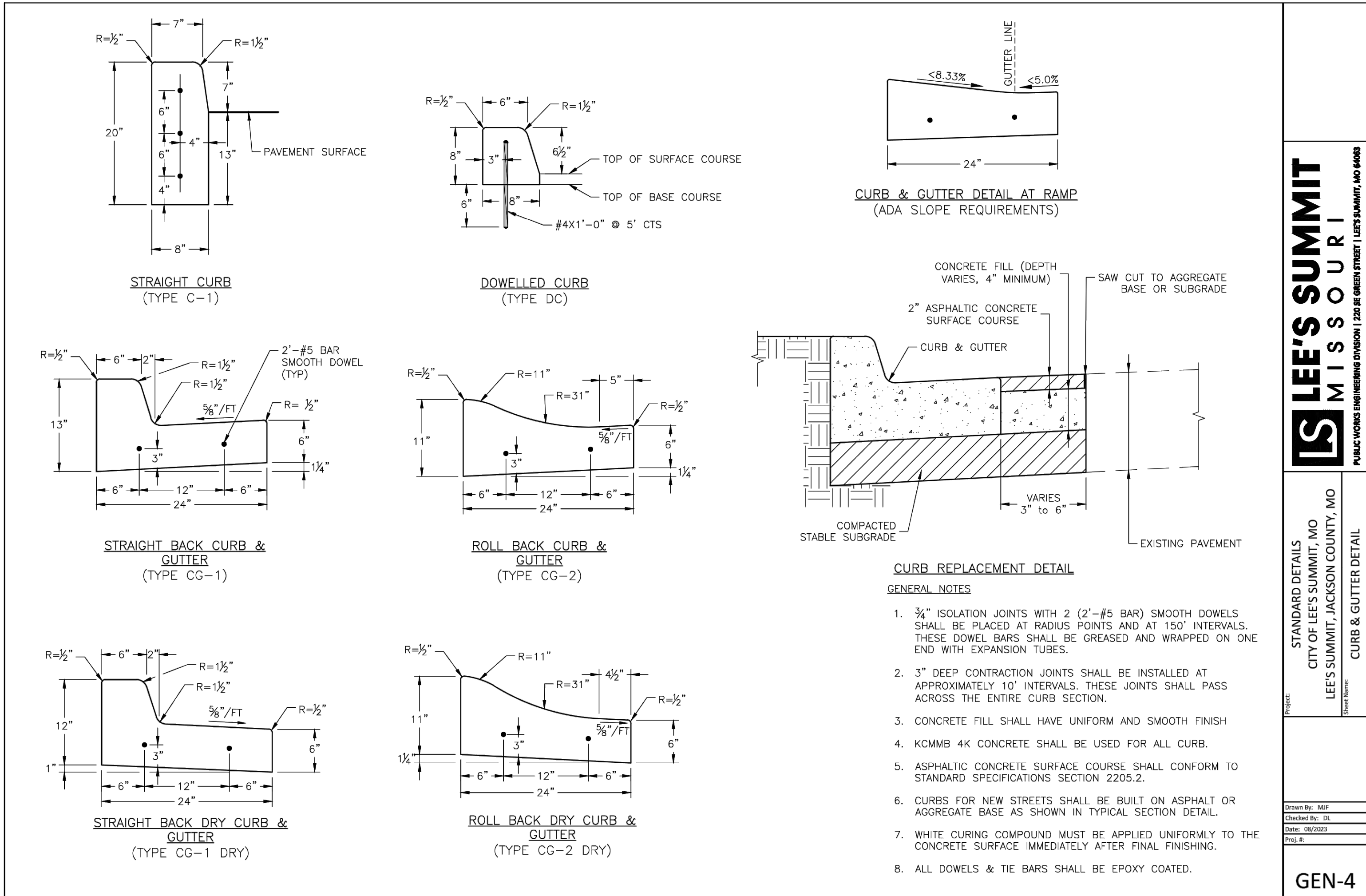
**IS LEE'S SUMMIT MISSOURI**

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

ADA RAMP RETROFIT DETAIL

Drawn By: MAF  
Checked By: DL  
Date: 08/2023  
Proj. #: GEN-3B



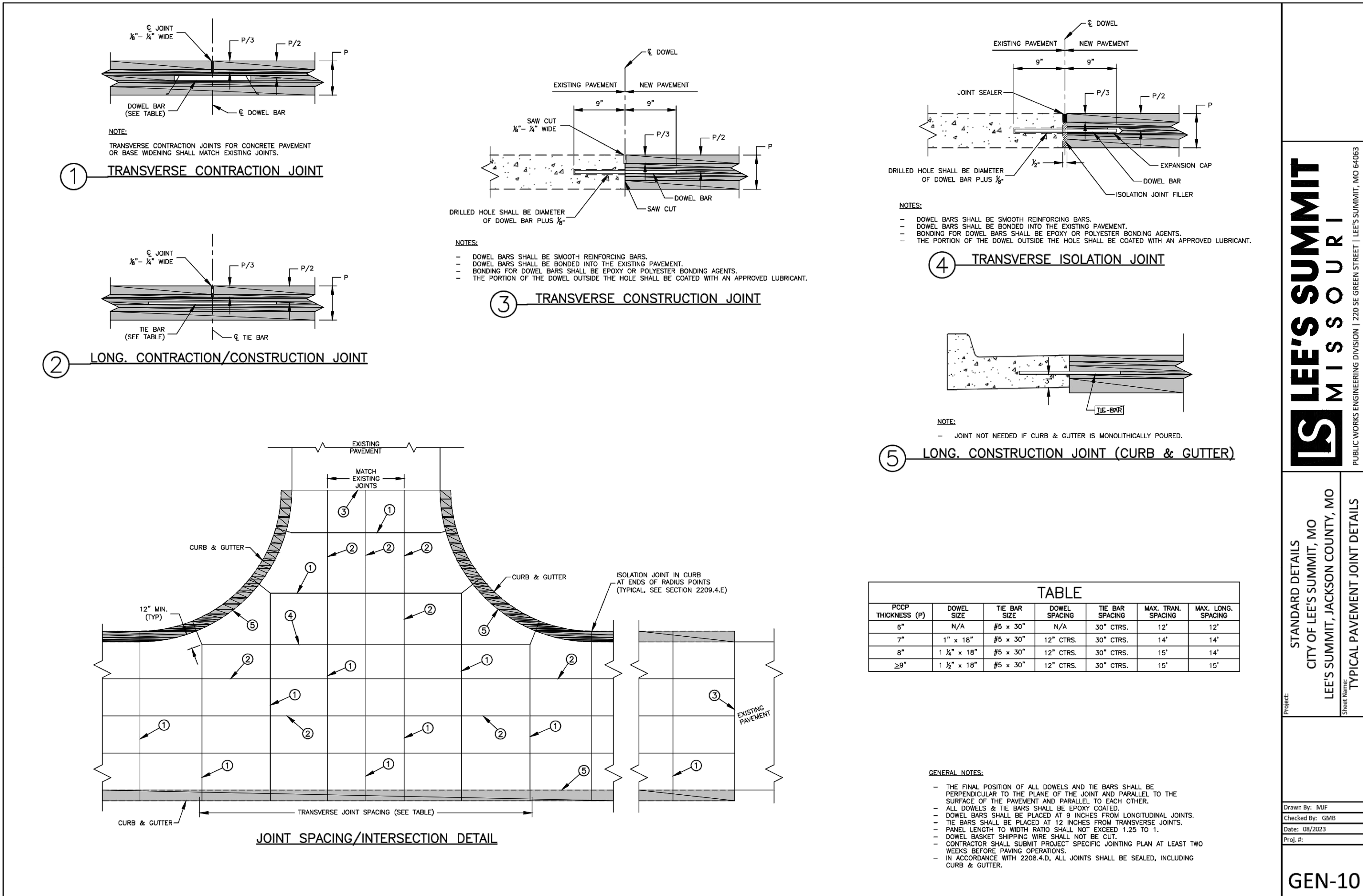
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STANDARD DETAILS  
CITY OF LEE'S SUMMIT, MO  
LEE'S SUMMIT, JACKSON COUNTY, MO

CURB & GUTTER DETAIL

Drawn By: MAF  
Checked By: DL  
Date: 08/2023  
Proj. #: GEN-4



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

TYPICAL PAVEMENT JOINT DETAILS

Drawn By: MAF  
Checked By: DL  
Date: 08/2023  
Proj. #: GEN-10

REVISIONS:

NO.	DATE
ORIGINAL	06/14/2024

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**NATHAN THOMAS ECKHOFF**  
PROFESSIONAL ENGINEER  
NUMBER: PE-200304960  
MO LICENSE: 200304960

**NATHAN THOMAS ECKHOFF**  
Crockett Engineering Consultants, LLC  
Missouri Certificate of Authority  
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THE VILLAGE AT DISCOVERY  
LOT 4  
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

LEE'S SUMMIT DETAILS SHEET  
1

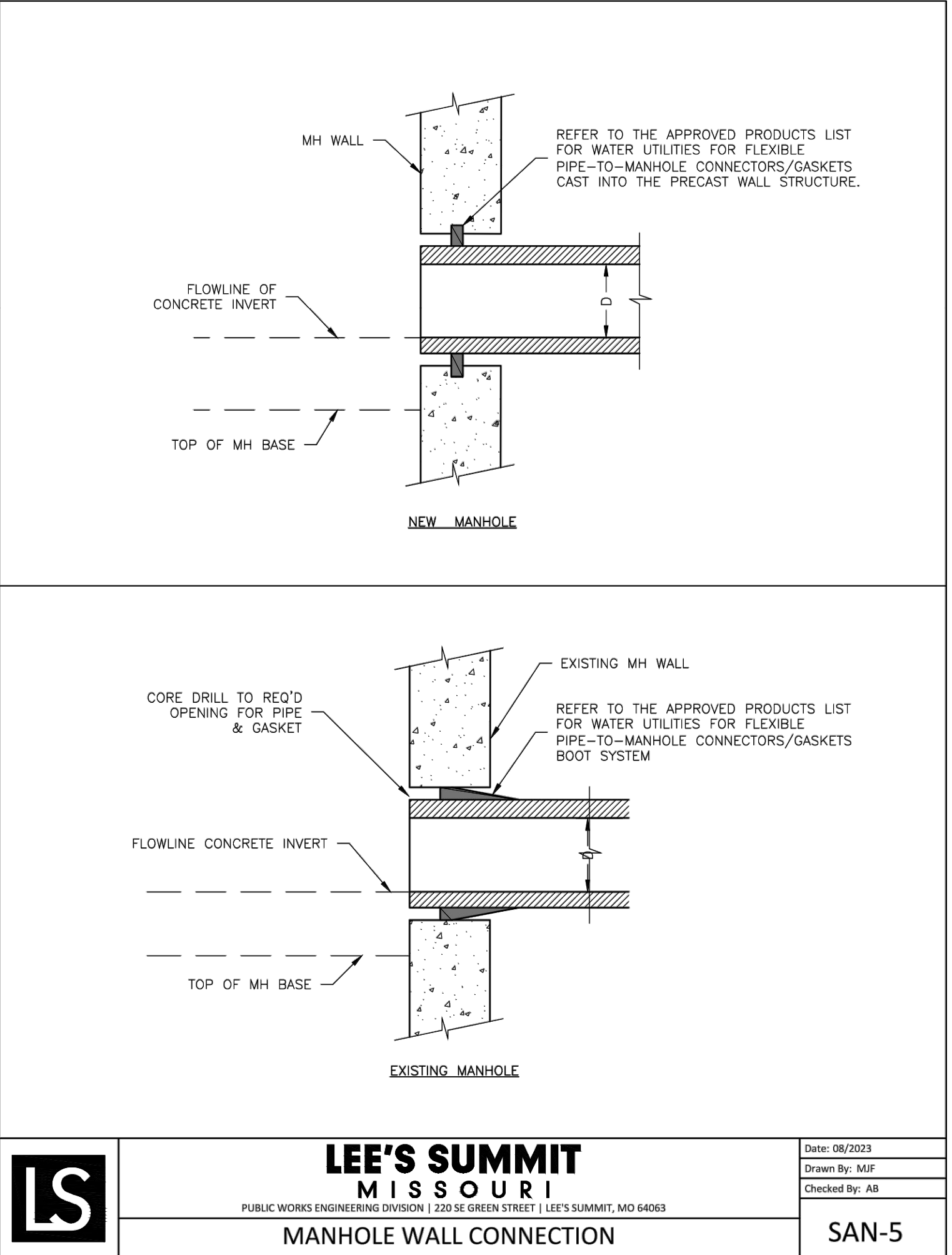
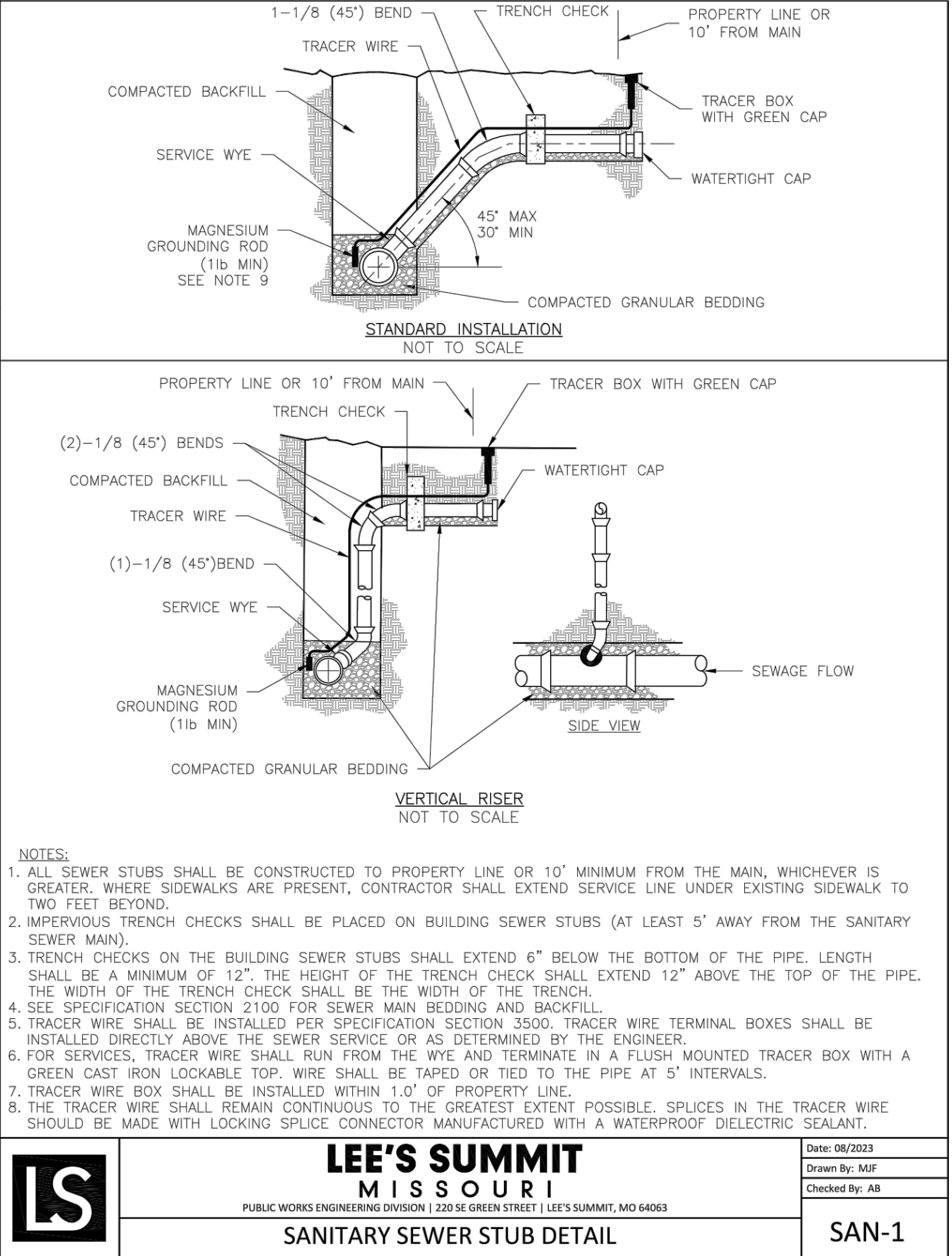
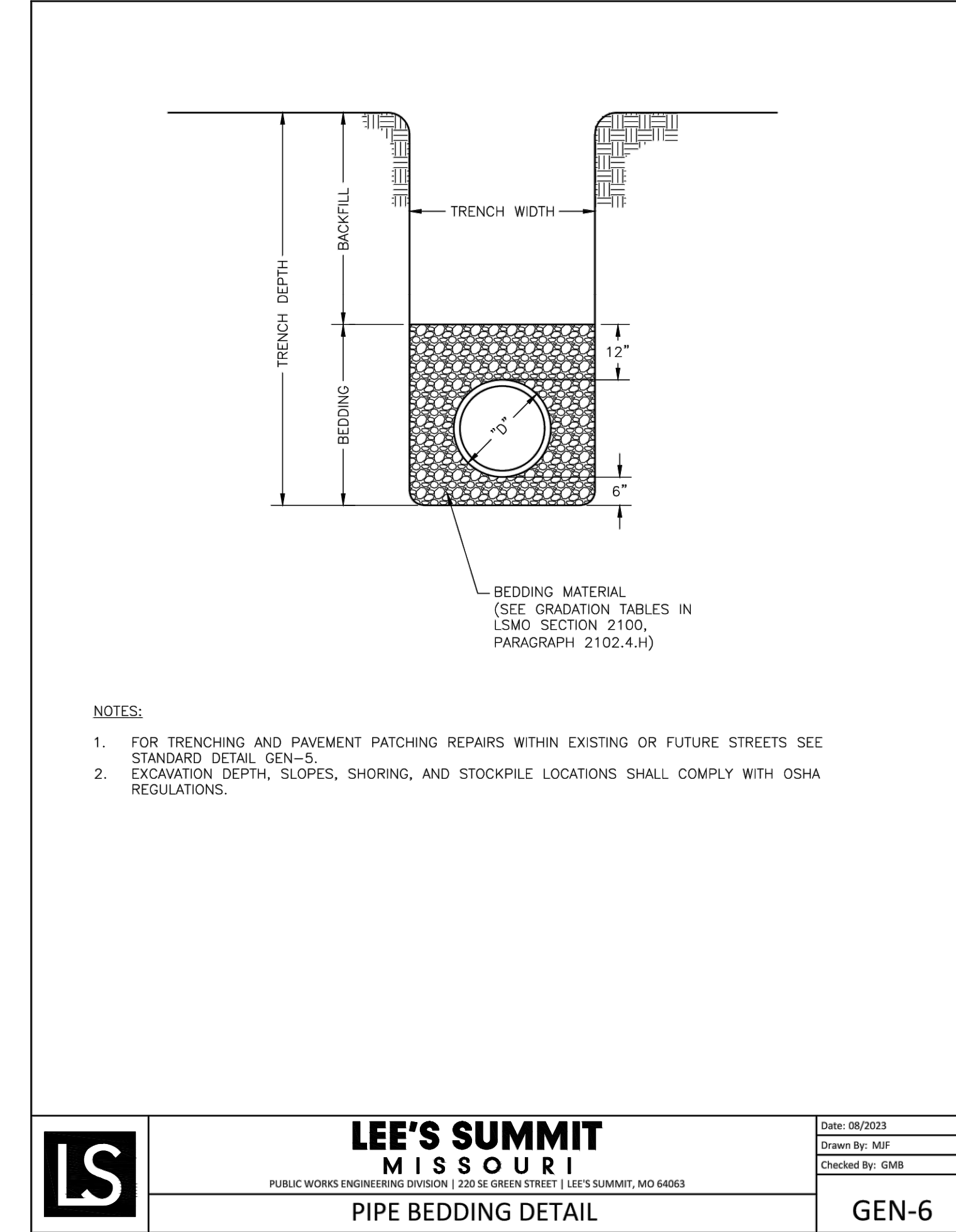
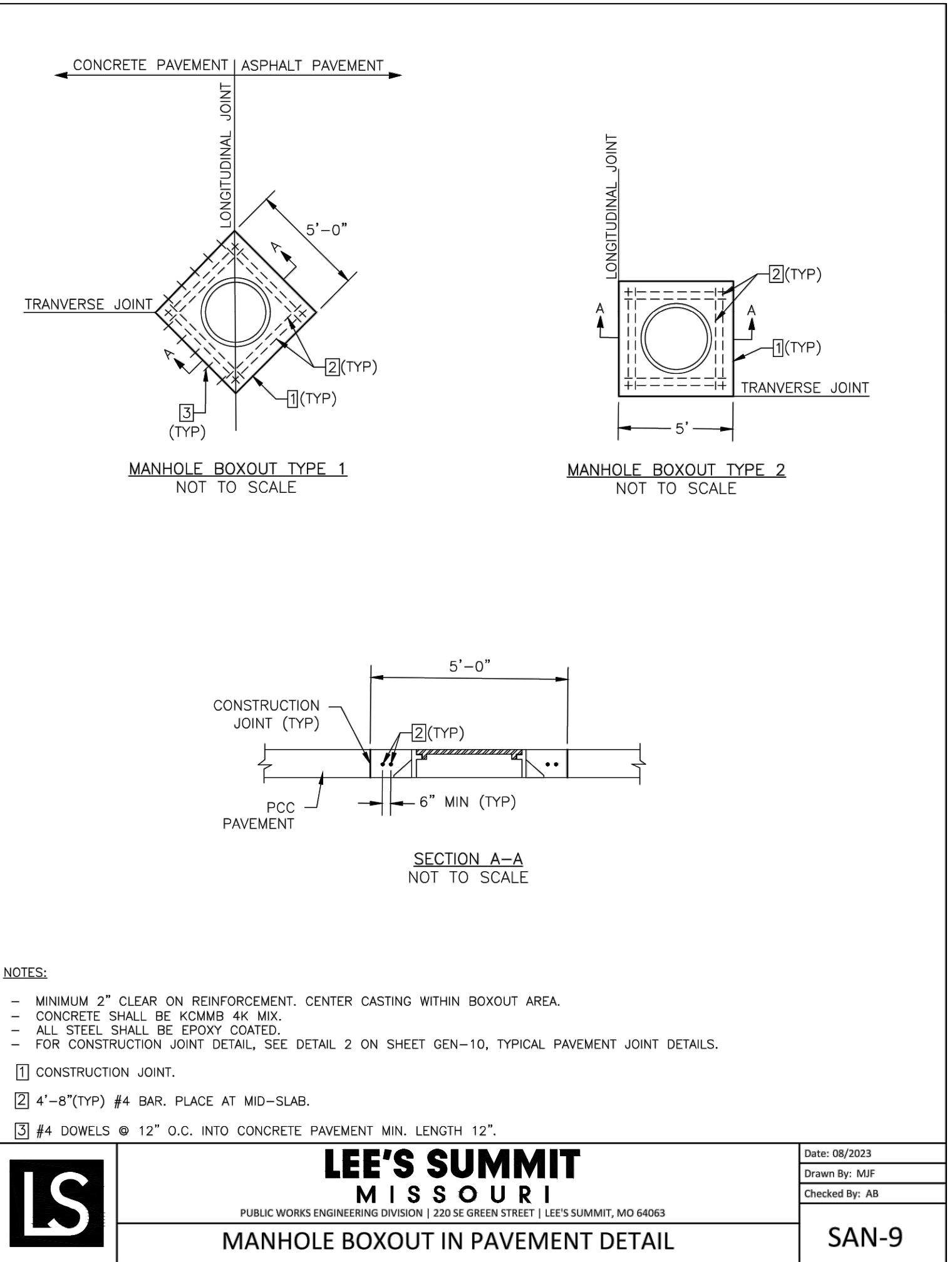
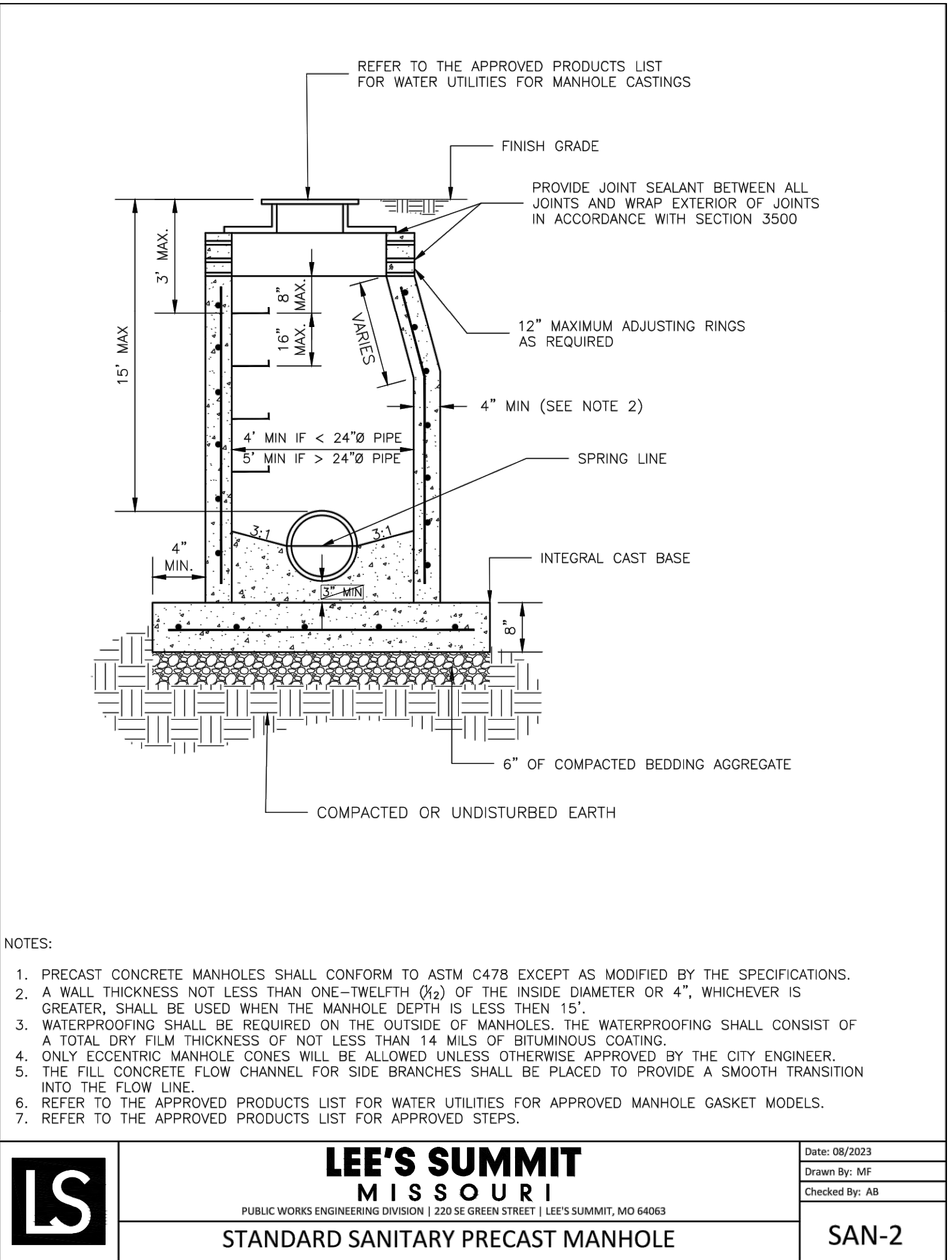
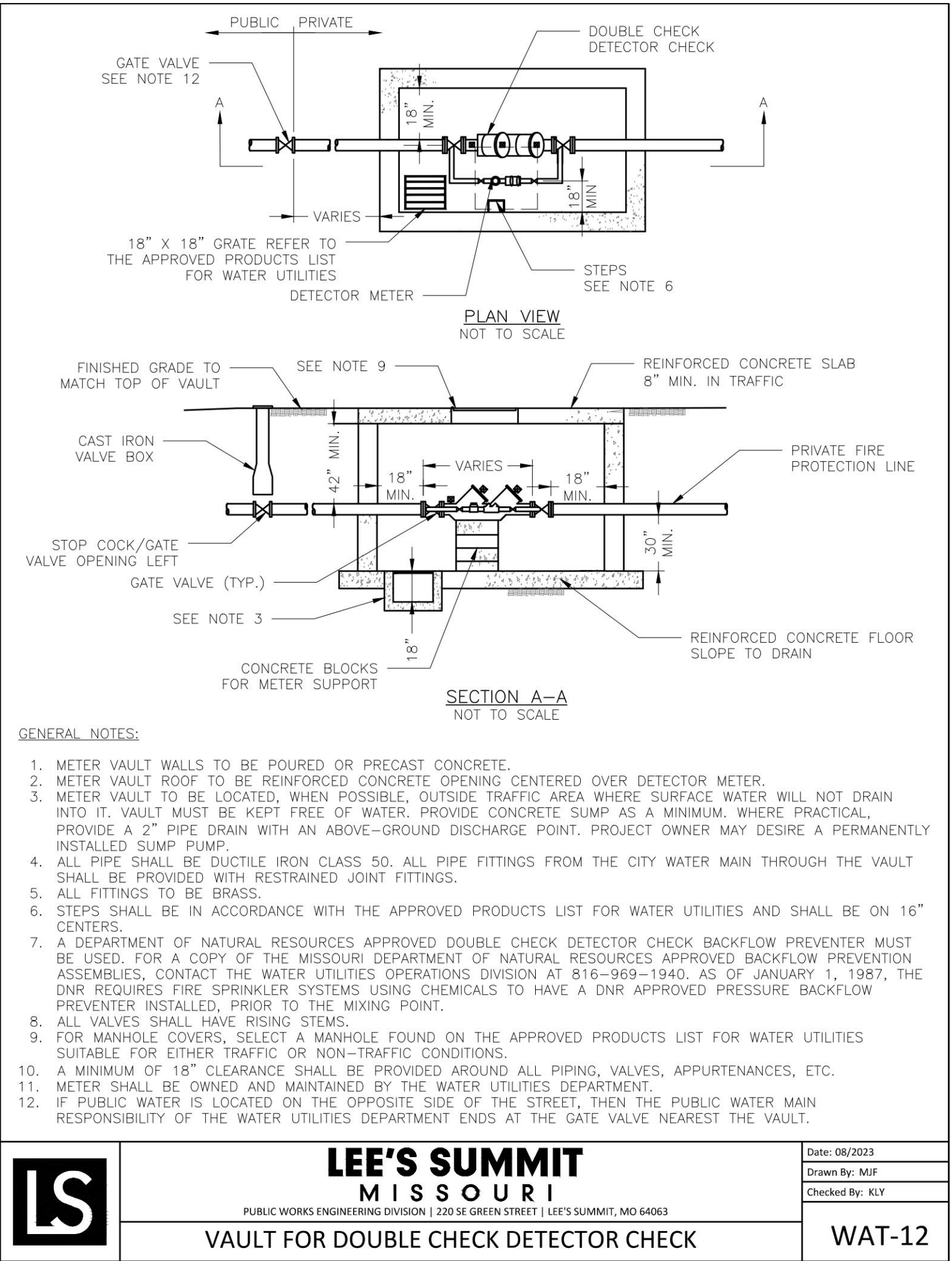
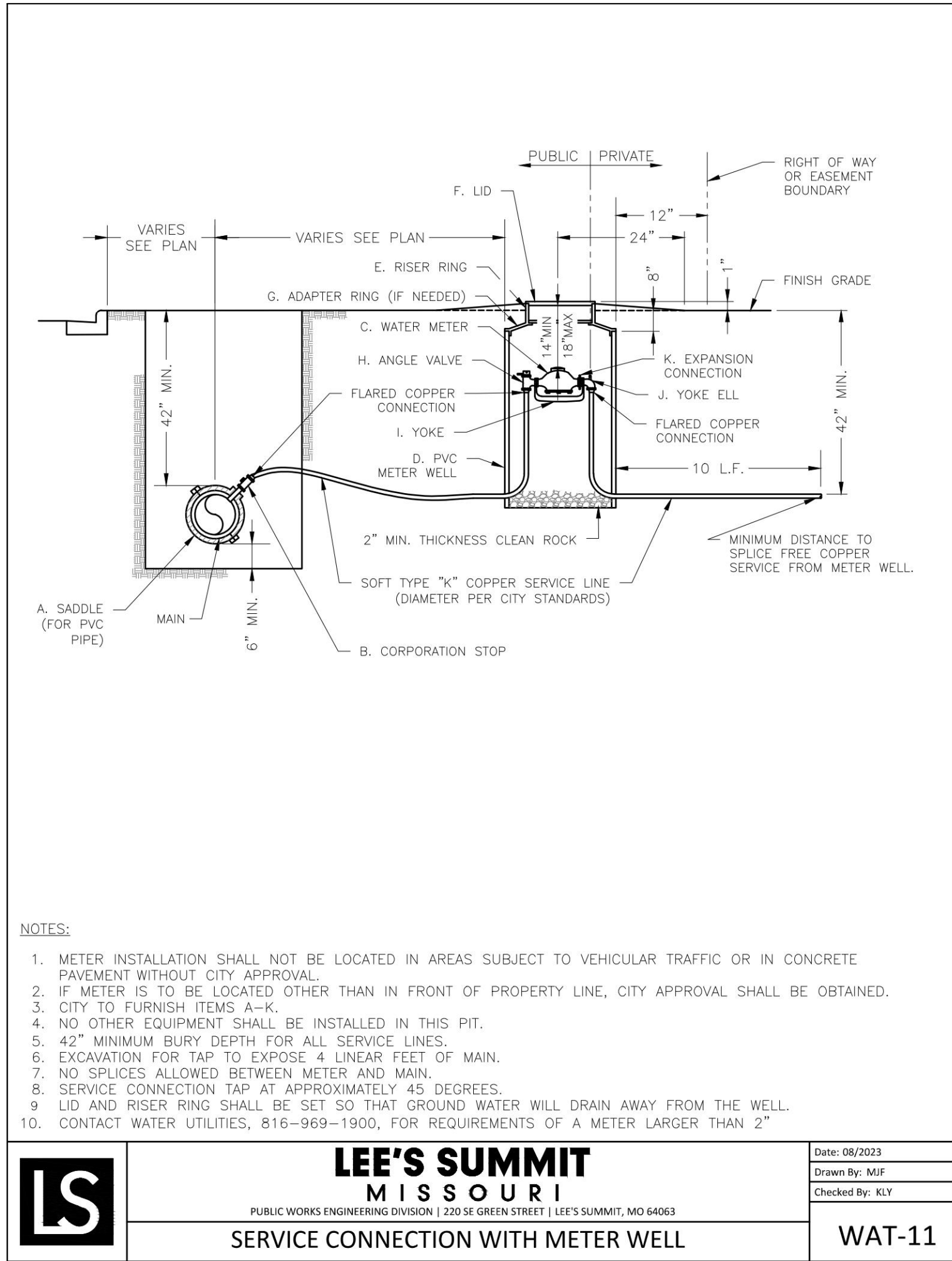
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STATE OF MISSOURI

NATHAN THOMAS ECKHOFF

REGISTERED PROFESSIONAL ENGINEER

NUMBER PE-20030/14960

NATHAN THOMAS ECKHOFF

MO LICENSE 200304960

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COLUMBIA, MO 65201

THE VILLAGE AT DISCOVERY

LOT 4

LEES SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

LEE'S SUMMIT DETAILS SHEET 2

DESIGNED: NTE

DRAWN: NMD

PROJECT NO.: 230286

SHEET: CE 7.5



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THE VILLAGE AT DISCOVERY -  
LOT 4  
LEE'S SUMMIT, MO

SHEET TITLE  
FIRST FLOOR PLAN

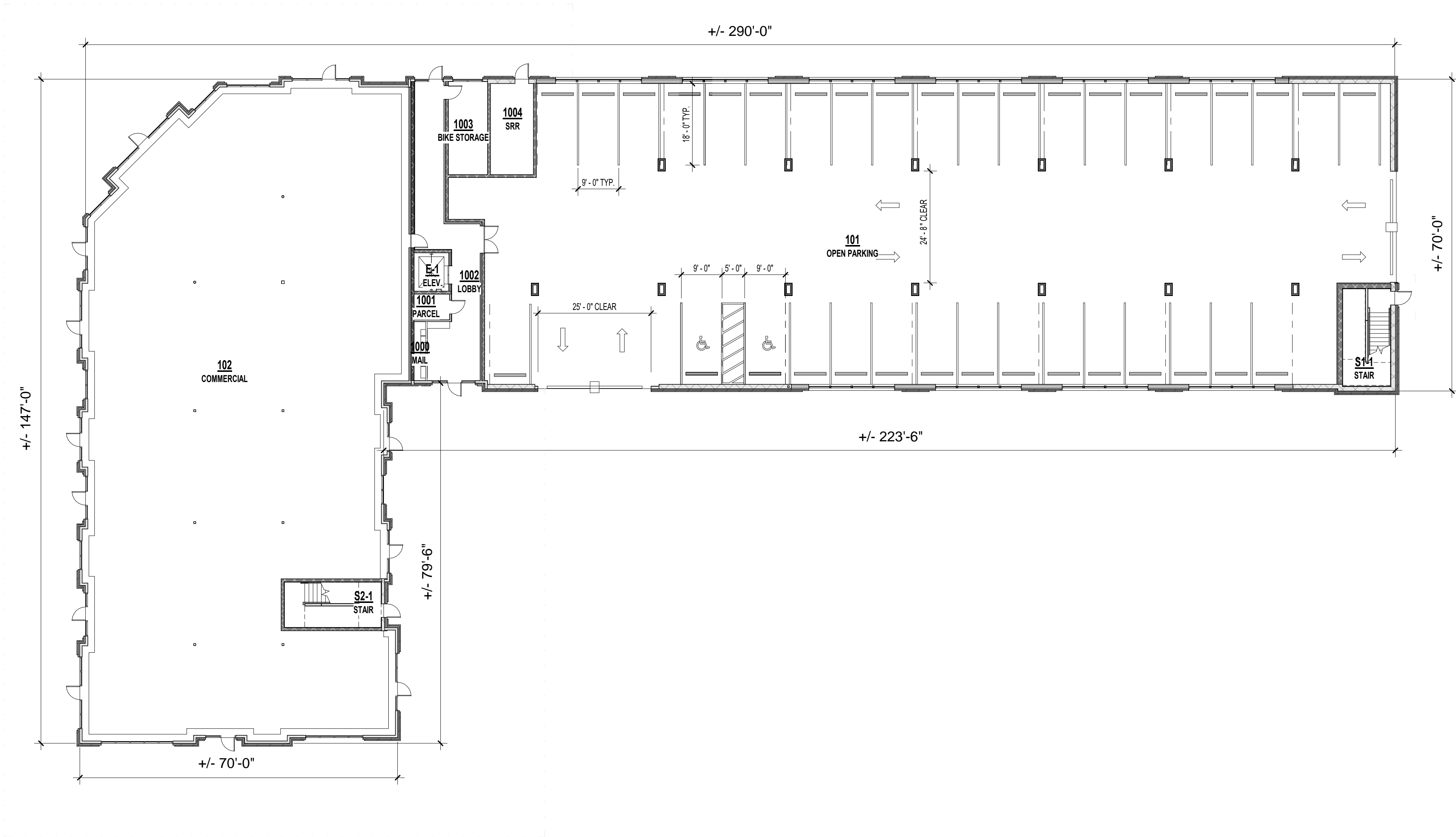
PROJECT NUMBER: 23099

SHEET NUMBER:

A-101

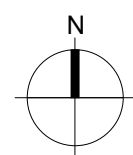
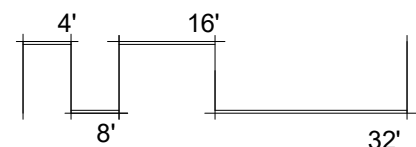
PLAN LEGEND

- PARTIAL HEIGHT PARTITION
- NON-RATED PARTITION; SEE ASSEMBLIES
- 1 HR RATED PARTITION; SEE ASSEMBLIES
- 2 HR RATED PARTITION; SEE ASSEMBLIES
- WINDOW TYPE; SEE WINDOW SCHEDULE
- DOOR TYPE; SEE DOOR SCHEDULE
- PARTITION TYPE; SEE ASSEMBLIES
- FRAMING DIMENSIONS
- LAYOUT LINE DIMENSIONS



A1

1ST FLOOR PLAN - FDP  
1/16" = 1'-0"





PRINTS ISSUED

05/10/2024 - FDP

REVISIONS:

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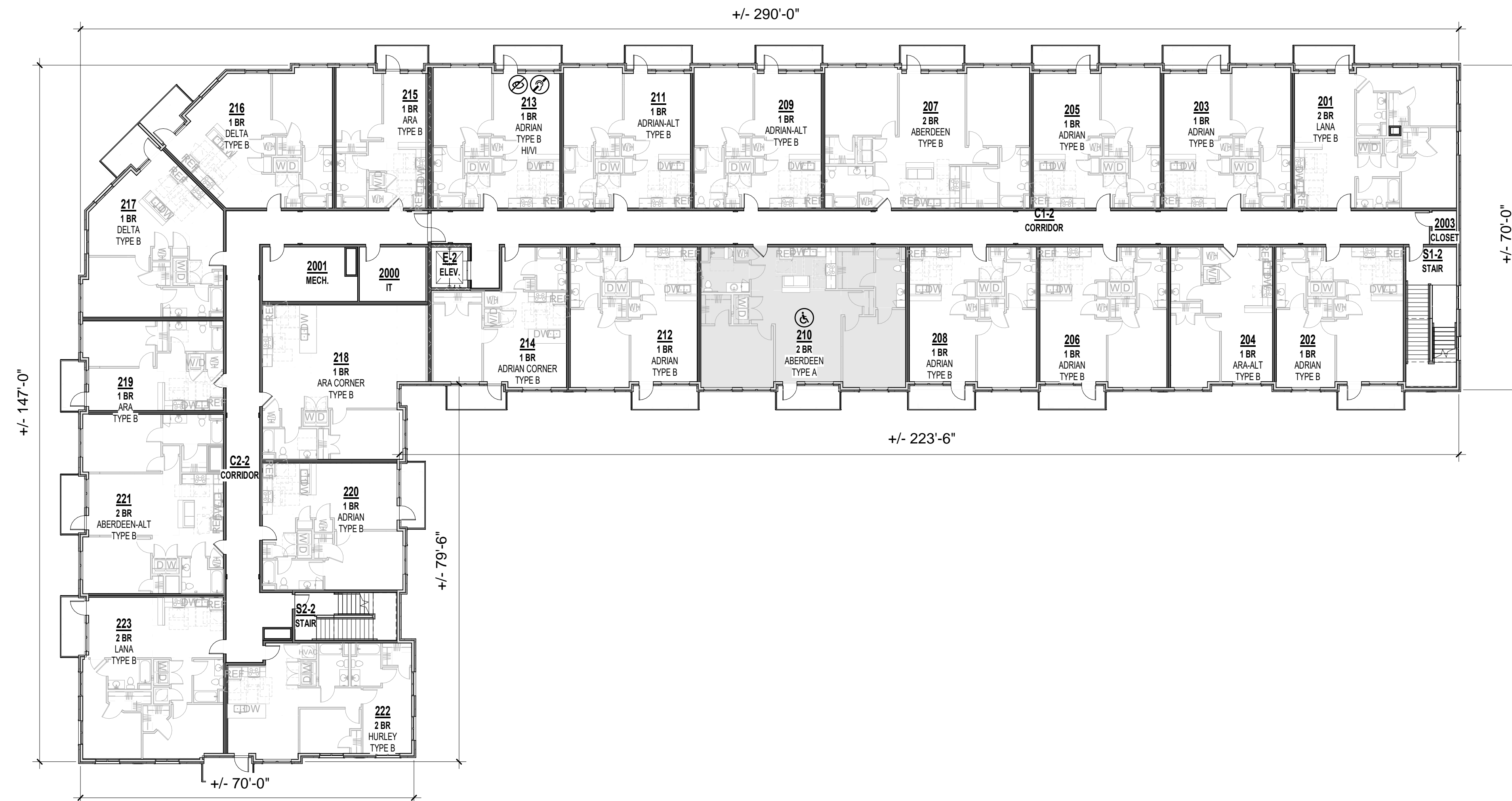
LEE'S SUMMIT, MO

SHEET TITLE  
SECOND FLOOR PLAN

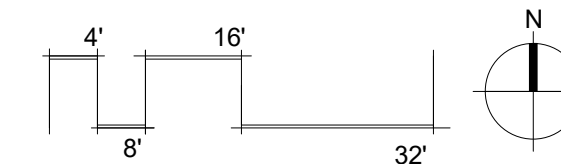
PROJECT NUMBER: 23099

SHEET NUMBER:

A-102



A1 SECOND FLOOR PLAN  
1/16" = 1'-0"





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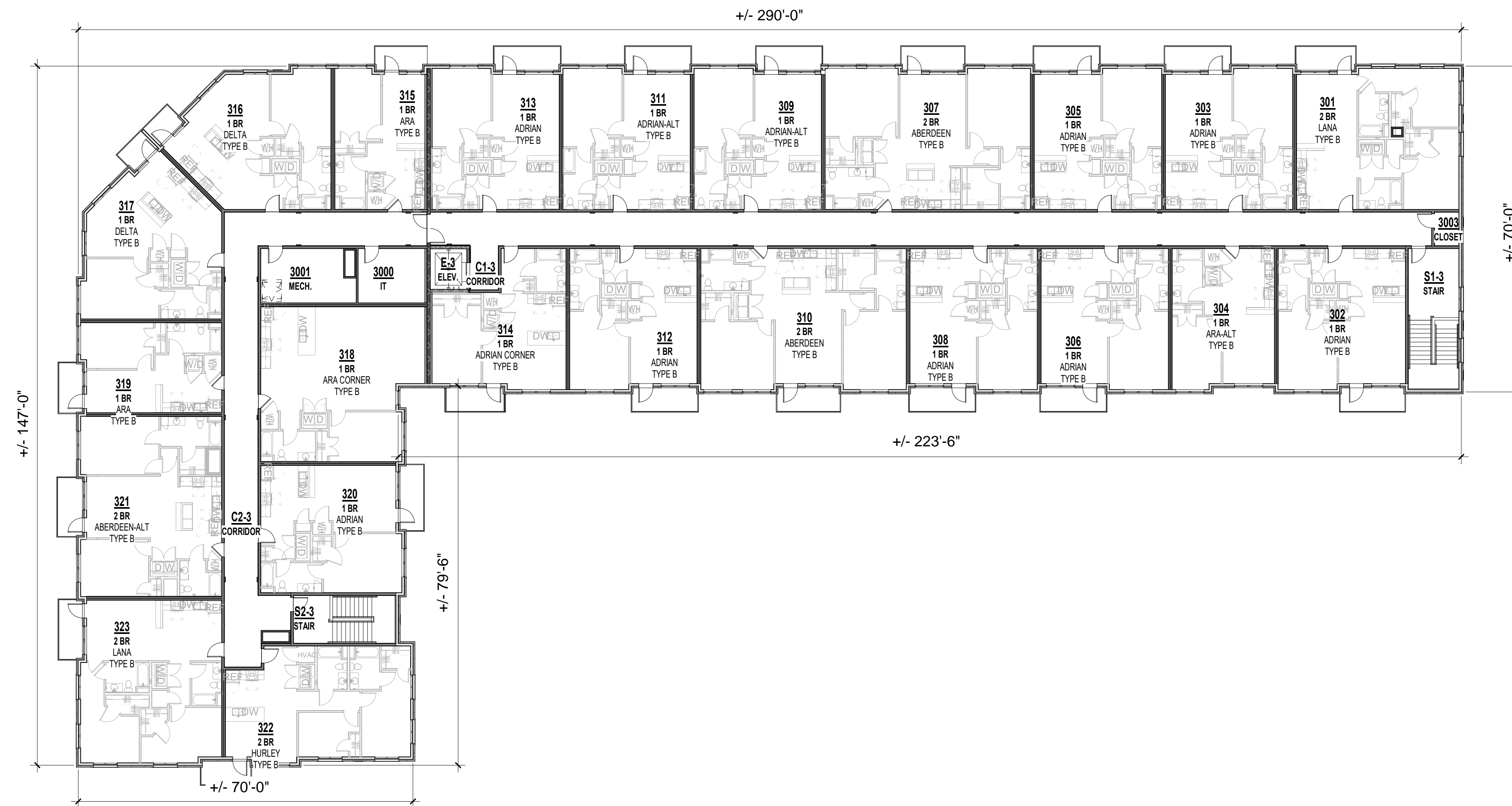
LEE'S SUMMIT, MO

SHEET TITLE  
THIRD FLOOR PLAN

PROJECT NUMBER: 23099

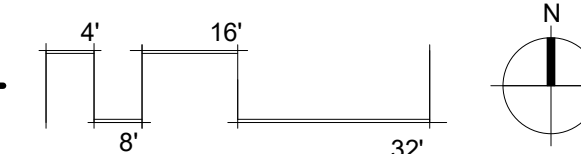
SHEET NUMBER:

A-103



A1

THIRD FLOOR PLAN  
1/16" = 1'-0"





MATERIAL LEGEND

- KING SIZE BRICK - COLOR 1 - ALLENDALE HILL
- KING SIZE BRICK - COLOR 2 - GLEN GERY SADDLE BROWN
- KING SIZE BRICK - COLOR 3 - CAVALRY GRAY
- STONE CAP - ROUGH ASHLAR
- LARGE FORMAT MASONRY - ROUGH ASHLAR

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LOT 4

LEE'S SUMMIT, MO

SHEET TITLE  
EXTERIOR COLOR ELEVATIONS  
PROJECT NUMBER: 23099  
SHEET NUMBER:

A-202



2 EAST ELEVATION - COLOR  
3/32" = 1'-0"



1 NORTH ELEVATION - COLOR  
3/32" = 1'-0"



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THE VILLAGE AT DISCOVERY -  
LOT 4  
LEE'S SUMMIT, MO

SHEET TITLE  
EXTERIOR COLOR ELEVATIONS  
PROJECT NUMBER: 23099  
SHEET NUMBER:

A-203



3 CORNER ELEVATION - COLOR  
3/32" = 1'-0"



2 WEST ELEVATION - COLOR  
3/32" = 1'-0"



1 SOUTH ELEVATION - COLOR  
3/32" = 1'-0"

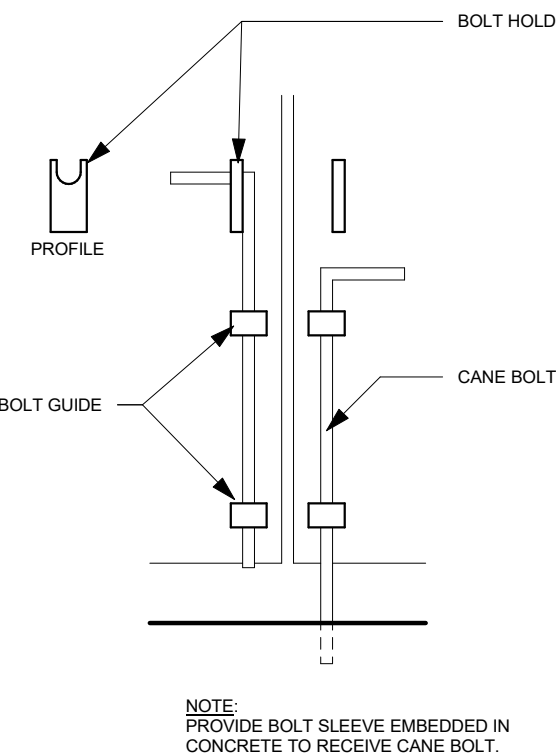


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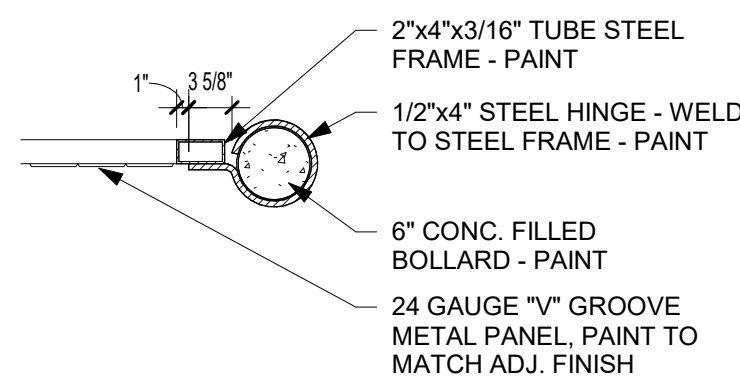
THE VILLAGE AT DISCOVERY -  
LOT 4  
LEE'S SUMMIT, MO

SHEET TITLE  
ARCHITECTURAL SITE AMENITIES  
PROJECT NUMBER: 23099  
SHEET NUMBER:

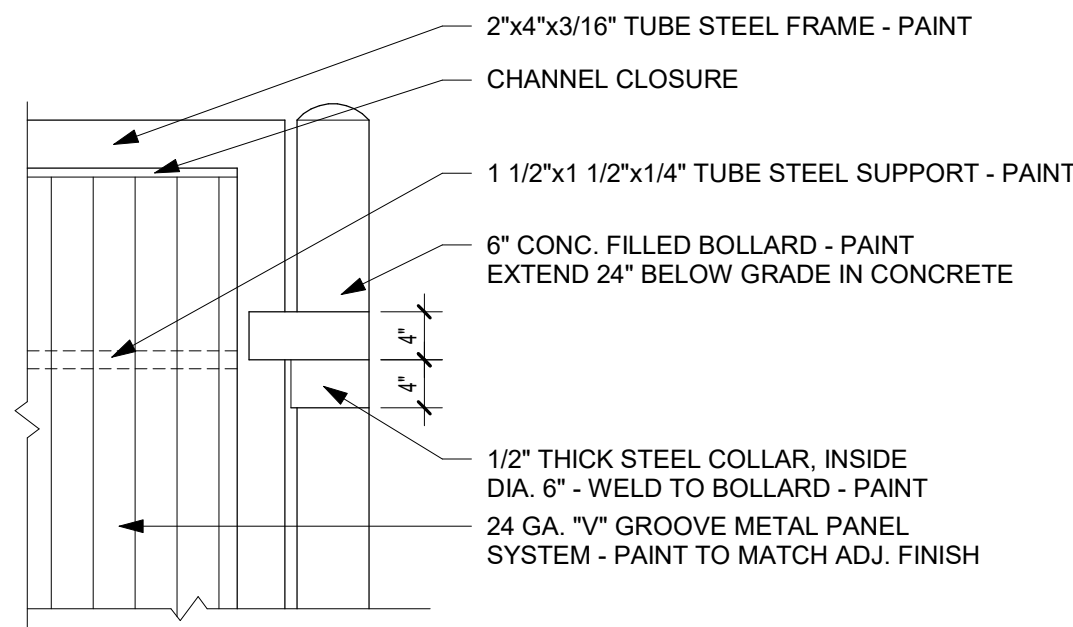
AS-100



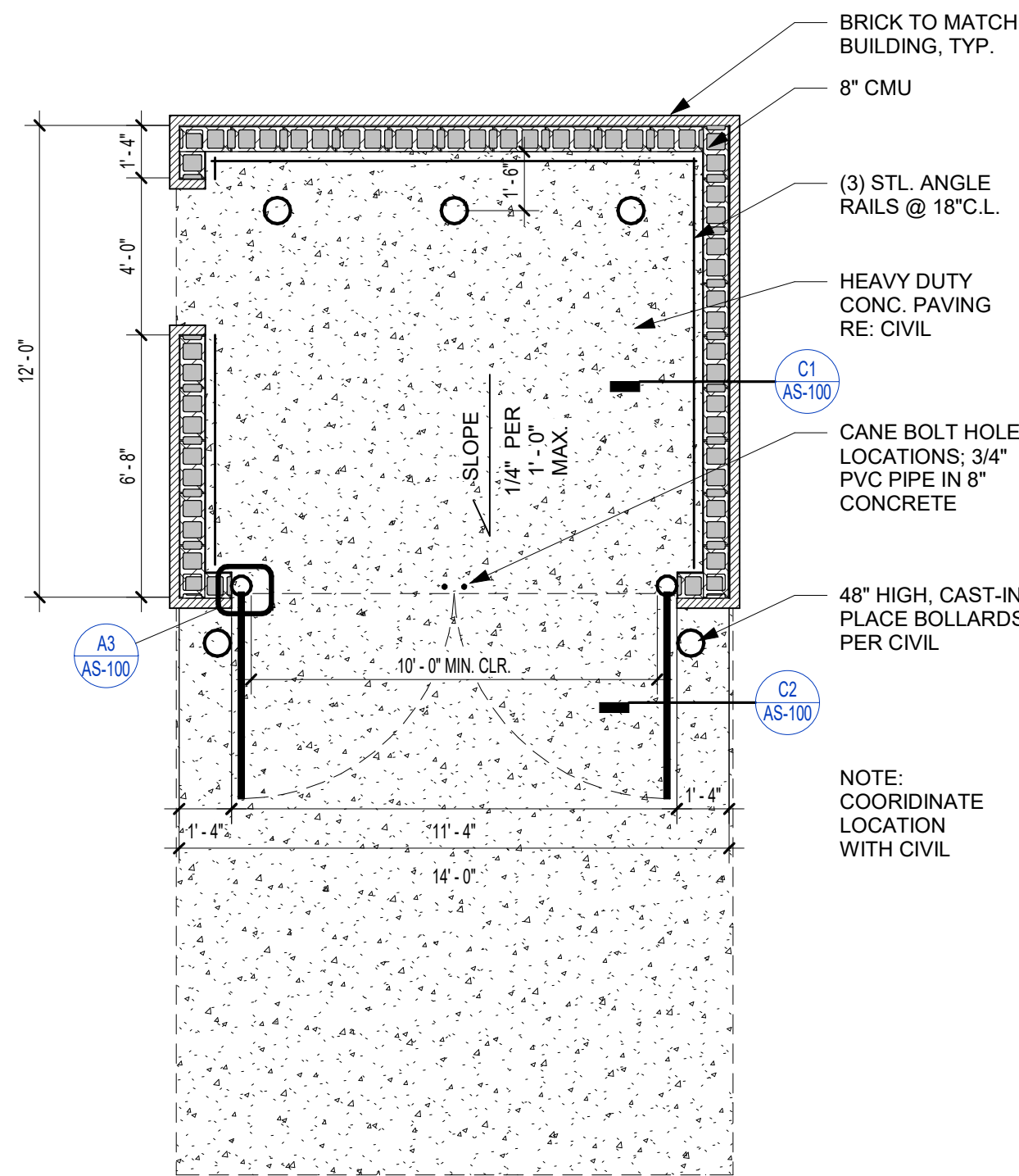
A4 SITE - CANE BOLT DETAIL  
3" = 1'-0"



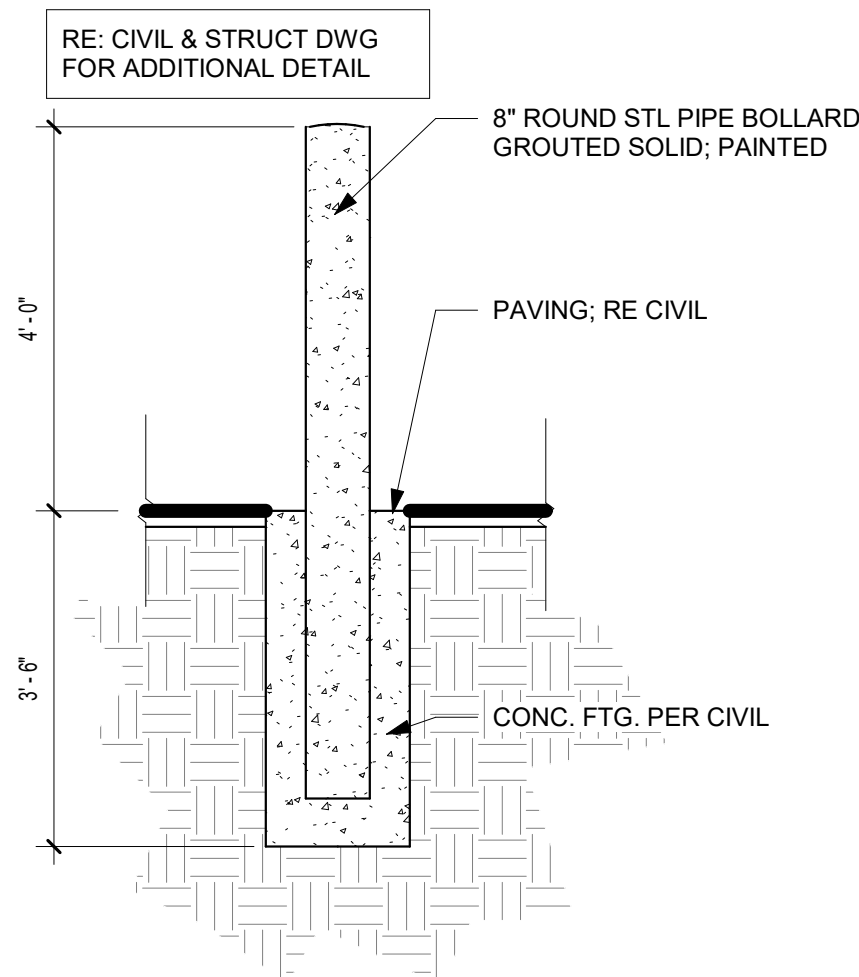
A3 TRASH GATE CROSS SECTION  
3/4" = 1'-0"



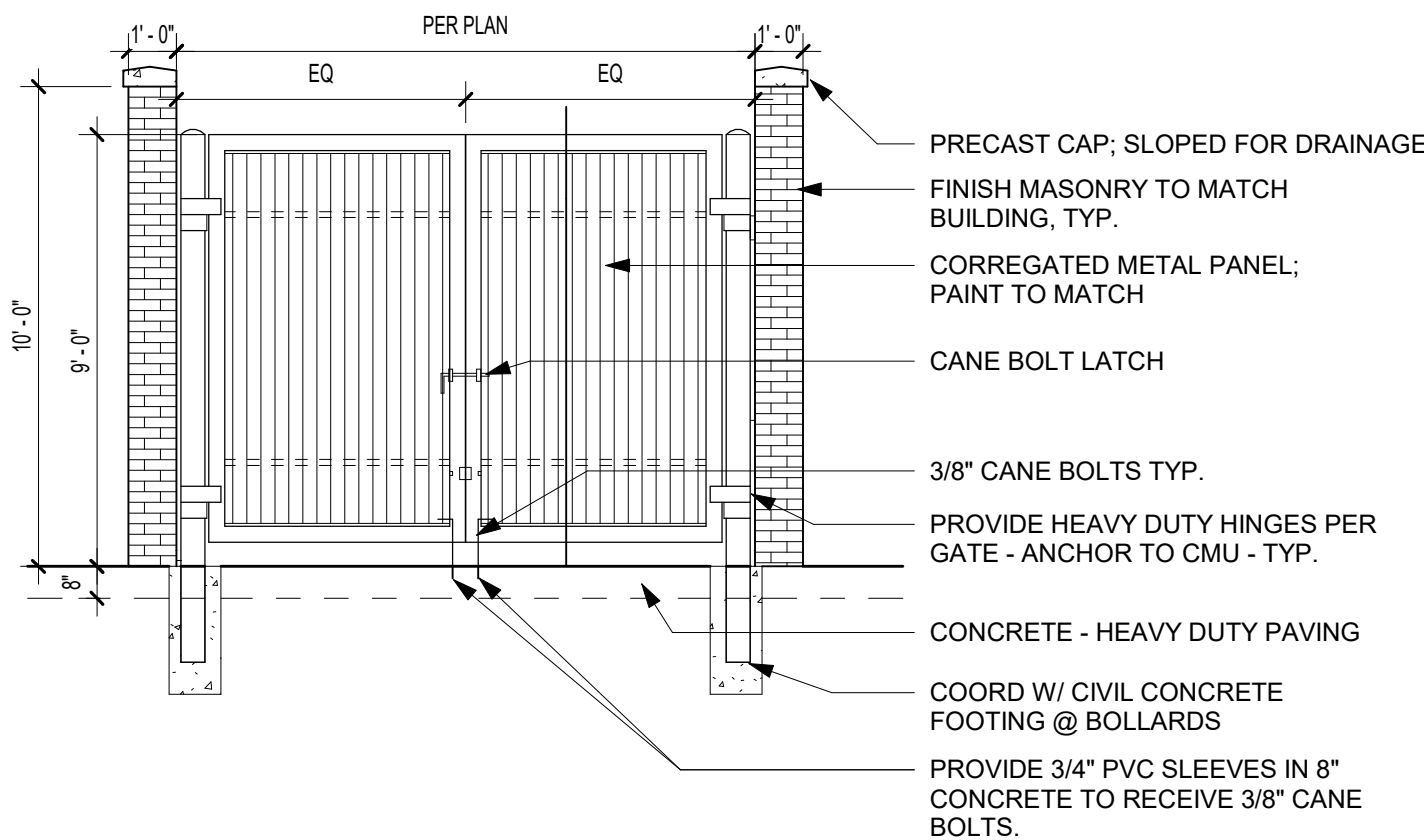
A2 TRASH GATE DETAIL  
3/4" = 1'-0"



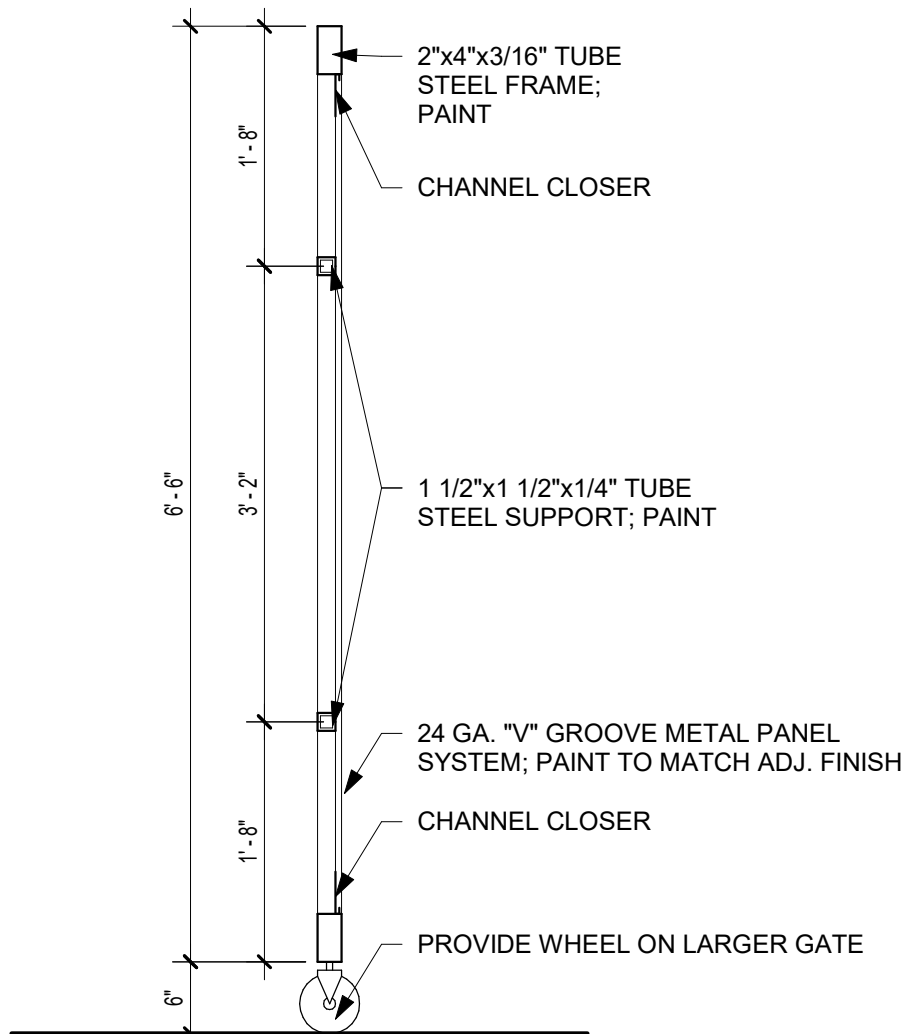
A1 SINGLE DUMPSTER TRASH ENCLOSURE PLAN  
1/4" = 1'-0"



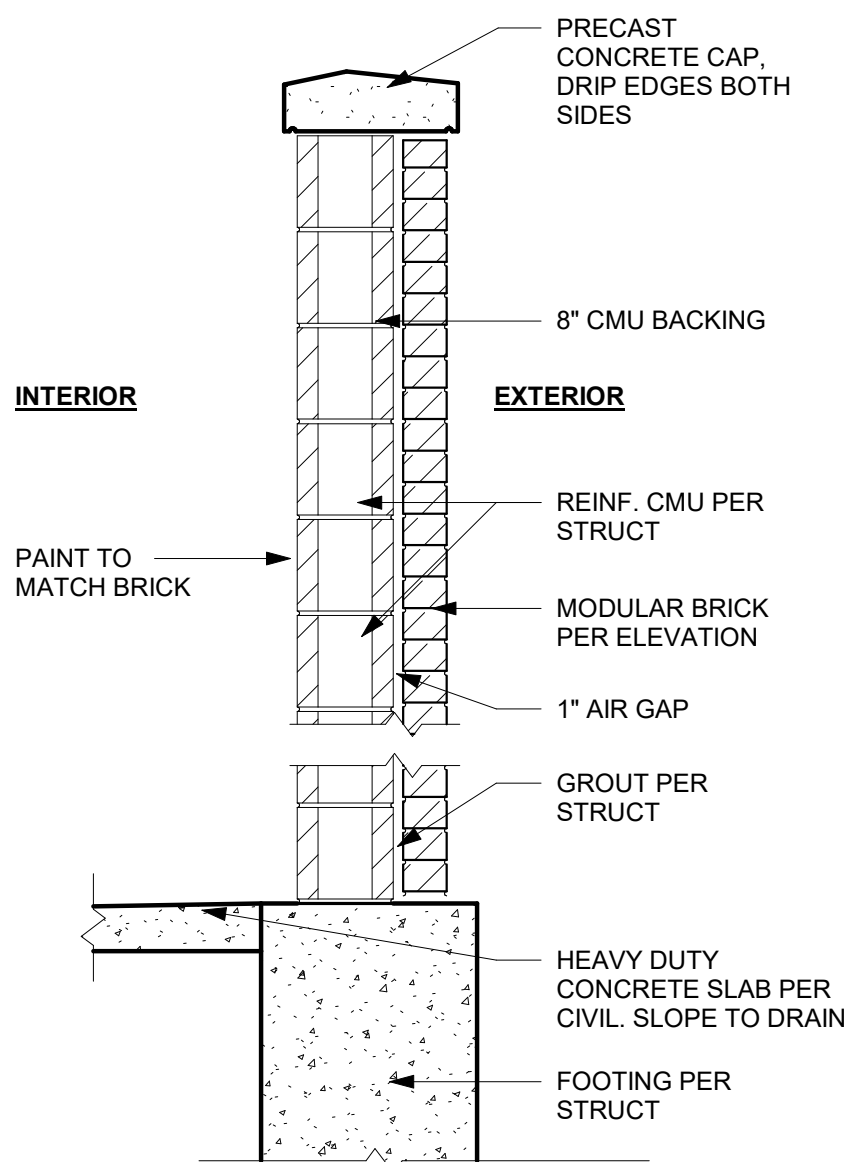
B3 SITE - BOLLARD - STEEL  
1/2" = 1'-0"



B2 ENCLOSURE FRONT ELEVATION  
1/4" = 1'-0"

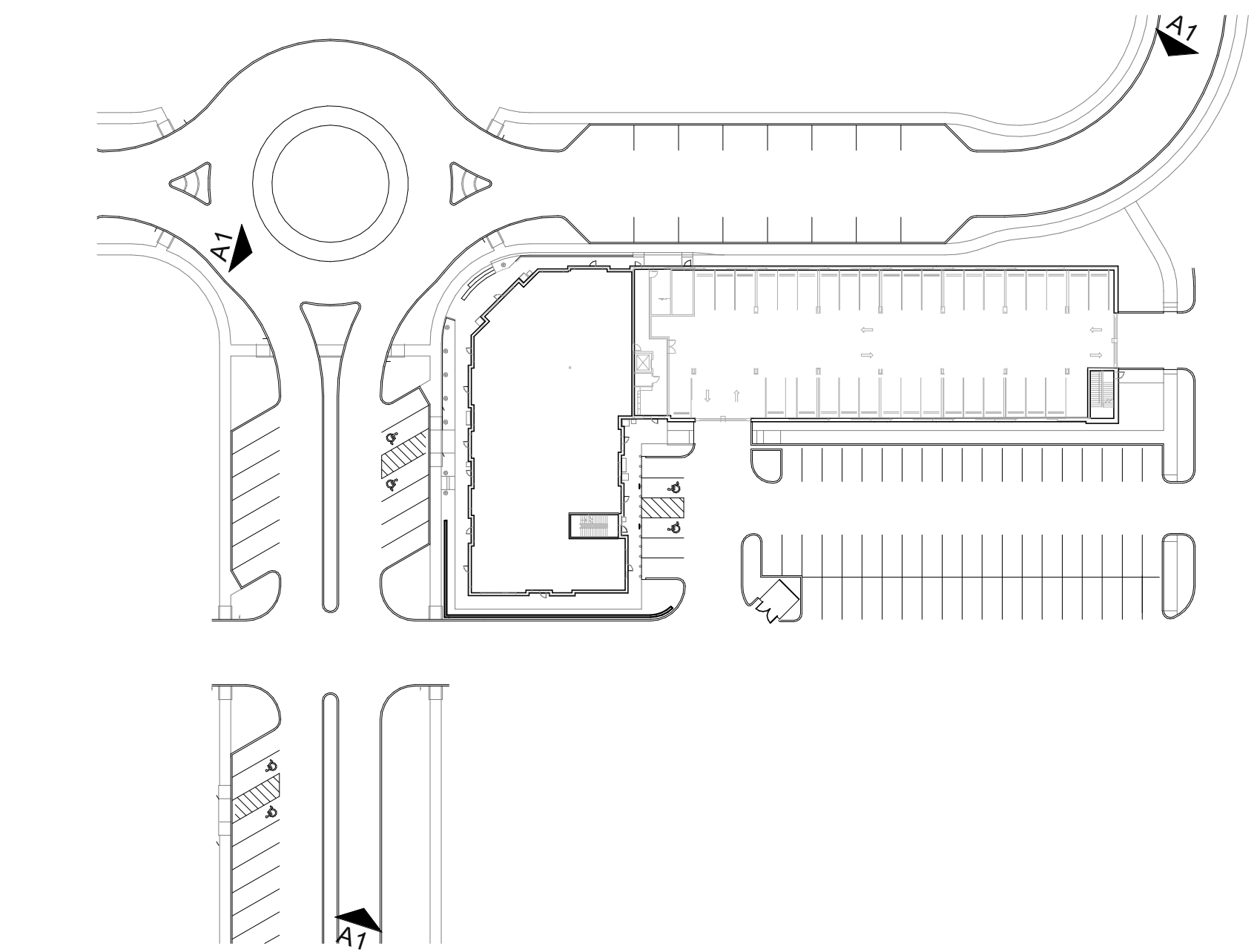


C2 TRASH GATE SECTION  
3/4" = 1'-0"



C1 SITE - ENCLOSURE - CMU - WALL SECTION  
3/4" = 1'-0"





B2 SITE DIAGRAM  
1/64" = 1'-0"



A2 NORTHWEST PERSPECTIVE



B1 SOUTHWEST PERSPECTIVE



A1 NORTHEAST PERSPECTIVE

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THE VILLAGE AT DISCOVERY -  
LOT 4

SHEET TITLE  
SITE RENDERINGS

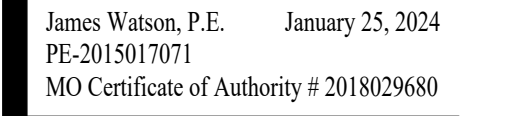
PROJECT NUMBER: 23099

SHEET NUMBER:

LEE'S SUMMIT, MO

A-204





J2 DESIGN:	JAP
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CITY SUBMITTAL	01 / 25 / 2024
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1. *Journal of the American Medical Association*, 2000; 284: 2689-2694.

1. *Journal of the American Medical Association*, 2000; 284: 1039-1044.



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1. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

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SHEET TITLE

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SHEET NUMBER  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 

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