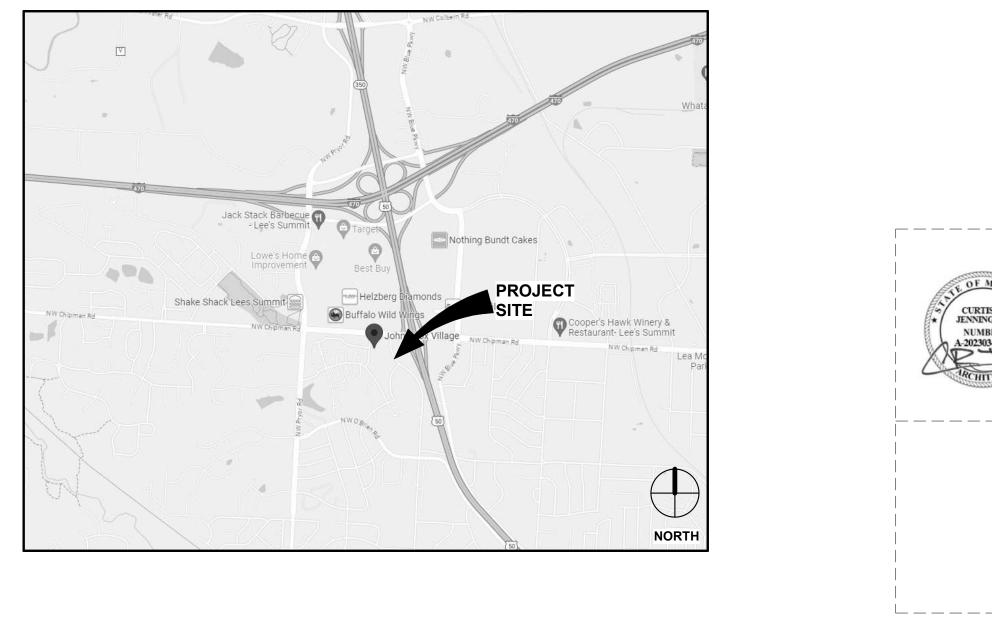
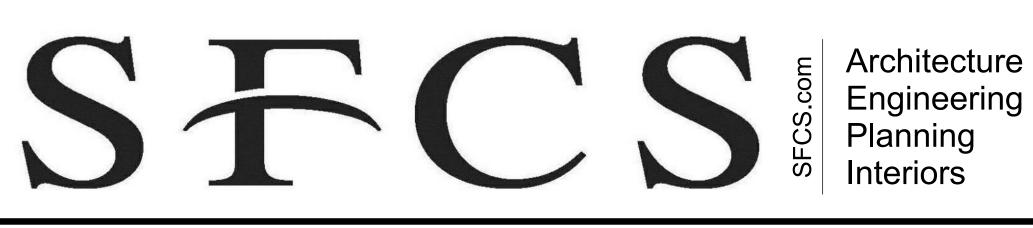
JOHN KNOX VILLAGE COURTYARDS-BUILDING E New Atrium & Independent Living **LEE'S SUMMIT, MO** FINAL DEVELOPMENT PLAN SUBMISSION **DATE: DECEMBER 1, 2023 COMM. NO. 23104.00**

VICINITY MAP





ROANOKE OFFICE (CORPORATE) 305 SOUTH JEFFERSON STREET ROANOKE, VA 24011-2003 800.873.2788

PHILADELPHIA OFFICE

1777 SENTRY PARKWAY WEST VEVA 17, SUITE 220 BLUE BELL, PA 19422 610.825.1288

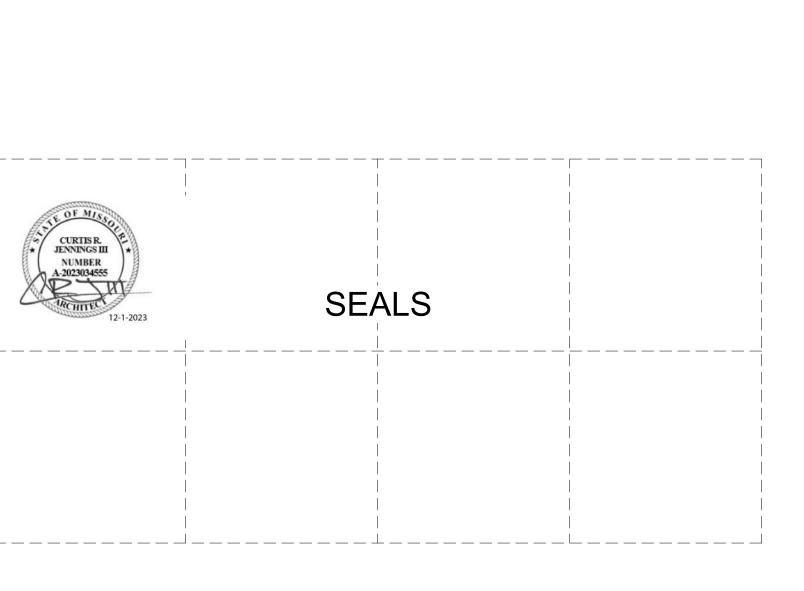
LOUISVILLE OFFICE

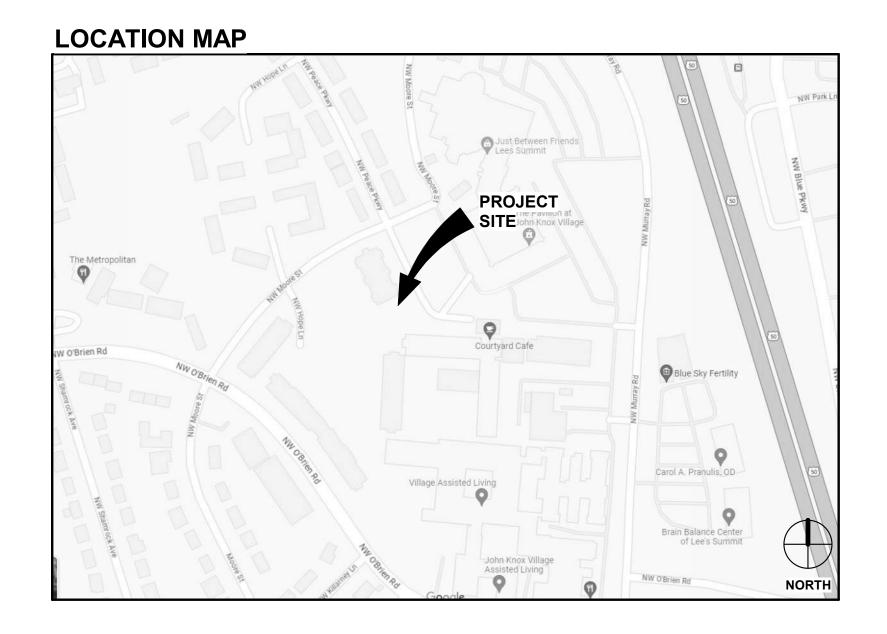
CHARLOTTE, NC 28203

704.372.7327

CHARLOTTE OFFICE

2115 LEXINGTON ROAD, SUITE 100 LOUISVILLE, KY 40206 502.414.4545





GREYSTONE COMMUNITIES

DEVELOPER 225 E. John Carpenter Freeway, Suite 700 Irving, TX 75062 Phone: 972.403.3700 Fax: 972.403.3727 www.greystonecommunities.com

BHC RHODES

CIVIL ENGINEERING 7101 College Blcd., Suite 400 Overland Park, KS 66210 Phone: 913.663.1900 www.ibhc.com

1927 SOUTH TRYON STREET, SUITE 207

DRAWING INDEX

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C2.0	SITE PLAN
C3.0	DIMENSION PLAN
C4.0	GRADING PLAN
C4.1	DETAILED GRADING PLAN
C4.2	ADA GRADING PLAN
C5.0	PRE-CON EROSION CONTROL PLAN
C5.1	MID-CON EROSION CONTROL PLAN
C5.2	POST-CON EROSION CONTROL PLAN
C6.0	UTILITY PLAN
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ELECTRICAL

E0.4 ELECTRICAL SITE PLAN



GENERAL NOTES

- material.
- dispose of properly off-site.
- that pertain to this project.

DEMOLITION NOTES

\sim	
01	REMOVE & DISF
02	REMOVE & DISF
03	REMOVE & DISF
04	REMOVE & DISF
05	REMOVE & DISF
06	REMOVE & DISF
07	REMOVE & DISF
08	REMOVE & RELO
09	REMOVE & DISF
10	REMOVE & DISF
11	SALVAGE AND R
12	REMOVE EXISTI
13	REMOVE AND D
14	REMOVE EXISTI
15	REMOVE & DISF
16	SAWCUT EXIST
17	SAWCUT EXIST
18	SAWCUT EXIST
19	REMOVE & DISF
20	REMOVE & DISF
21	REMOVE & DISF
22	MILL TOP 2" OF
23	REMOVE EXISTI
24	EXISTING TREE
25	SALVAGE & REU
26	PROTECT IN PL
27	SALVAGE & REU

	SA
<i>[]]///////////////////////////////////</i>	EX
	AS
	СС
	AS

1. Contractor shall verify the location, size, material and depth of all utilities prior to any excavation or construction activity.

2. All materials shall be removed and disposed of off-site. It is the contractors responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition

3. The Contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired to meet current code, at no additional cost to the owner.

4. The Contractor shall remove any and all existing debris which is encountered from the existing site. This shall include, but shall not be limited to, footings, concrete slabs, conduits, granular subgrade, utility services, and/or unsuitable structural fill material as determined by the owner's engineer. The cost for these removals shall be considered incidental to the project. Said debris shall become property of the contractor and it shall be the responsibility of the contractor to

5. It shall be the Contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.

6. The Contractor shall be responsible for obtaining and payment of any permits for demolition

7. All protection fencing shall be installed prior to demolition/construction activity. The Contractor shall provide a 6-foot security fence around the entire job site with locked gated access points, if required by the owner or the city.

8. All existing utilities removed during construction shall have their trenches backfilled with structural fill and be compacted to the requirements for structural fill.

9. All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the Contractor at no additional cost to the owner.

SPOSE OF EXISTING CORRIDOR.

SPOSE OF EXISTING CURB.

SPOSE OF EXISTING CONCRETE SIDEWALK.

SPOSE OF EXISTING RETAINING WALL.

SPOSE OF EXISTING HANDRAIL.

SPOSE OF EXISTING STORM PIPE.

SPOSE OF EXISTING SANITARY PIPE.

OCATE EXISTING UNDERGROUND CABLE TV SERVICE LINE.

SPOSE OF EXISTING UNDERGROUND ELECTRIC SERVICE LINE.

POSE OF EXISTING ELECTRIC BOX.

REUSE EXISTING LIGHT POLE AND FIXTURE

TING ELECTRIC BOXES, AC UNITS & CONCRETE PAD.

DISPOSE OF EXISTING TREES; SEE TREE REMOVAL PLAN L0.1-L0.2

TING WATER SERVICE LINE.

SPOSE OF EXISTING TRENCH DRAIN.

TING CURB TO CLEAN EDGE.

TING SIDEWALK TO CLEAN EDGE.

TING PAVEMENT TO CLEAN EDGE.

SPOSE OF EXISTING STORM STRUCTURE.

SPOSE OF EXISTING SANITARY MANHOLE.

SPOSE OF EXISTING ASPHALT PAVEMENT.

F ASPHALT PAVEMENT.

TING PARKING STALL MARKINGS FROM ENTIRE PARKING BAY NOTED.

E; PROTECT IN PLACE. SEE TREE PROTECTION PLAN L0.1 - L0.2

USE EXISTING FIRE LANE

ACE EXISTING STOP SIGN

USE EXISTING BENCH

DEMOLITION LEGEND

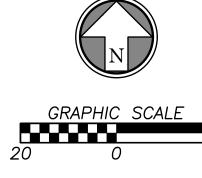
AW CUT LINE

XISTING BUILDING TO BE REMOVED

SPHALT PAVEMENT TO BE REMOVED

ONCRETE SIDEWALK TO BE REMOVED

SPHALT PAVEMENT TO BE MILLED







FINAL DEVELOPMENT PLAN

PROJECT TITLE



COURTYARDS - BUILDING E



DATE

SFCS Inc. = 1927 South Tryon St. - Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 Fax 704.372.7369 www.sfcs.com

DESIGNER : DAS ARCHITECT : DAS ENGINEER 📜 ERB

C TI

DRAWN : ARK CHECKED : ERB APPROVED : ERB REVISION DESCRIPTION

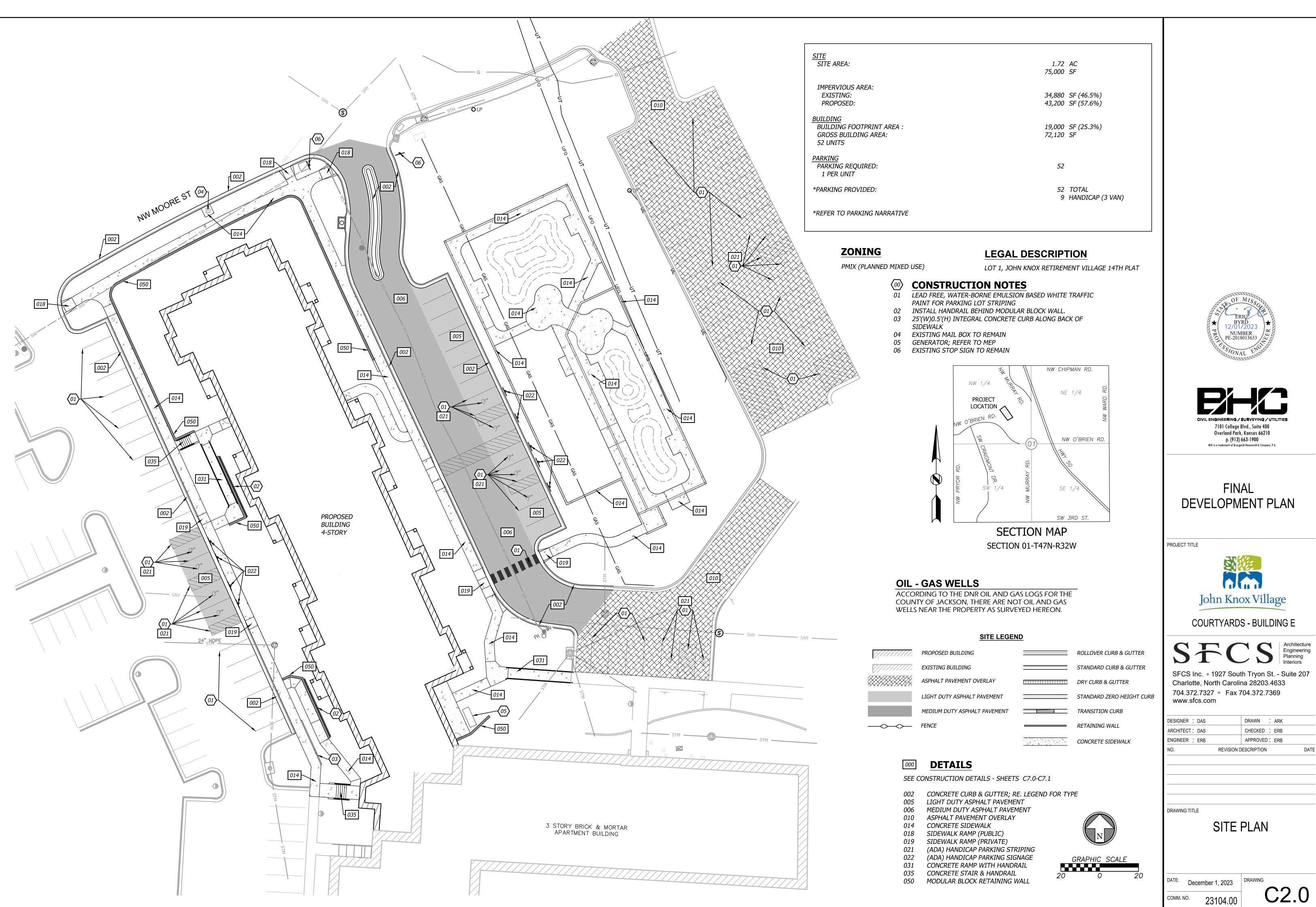
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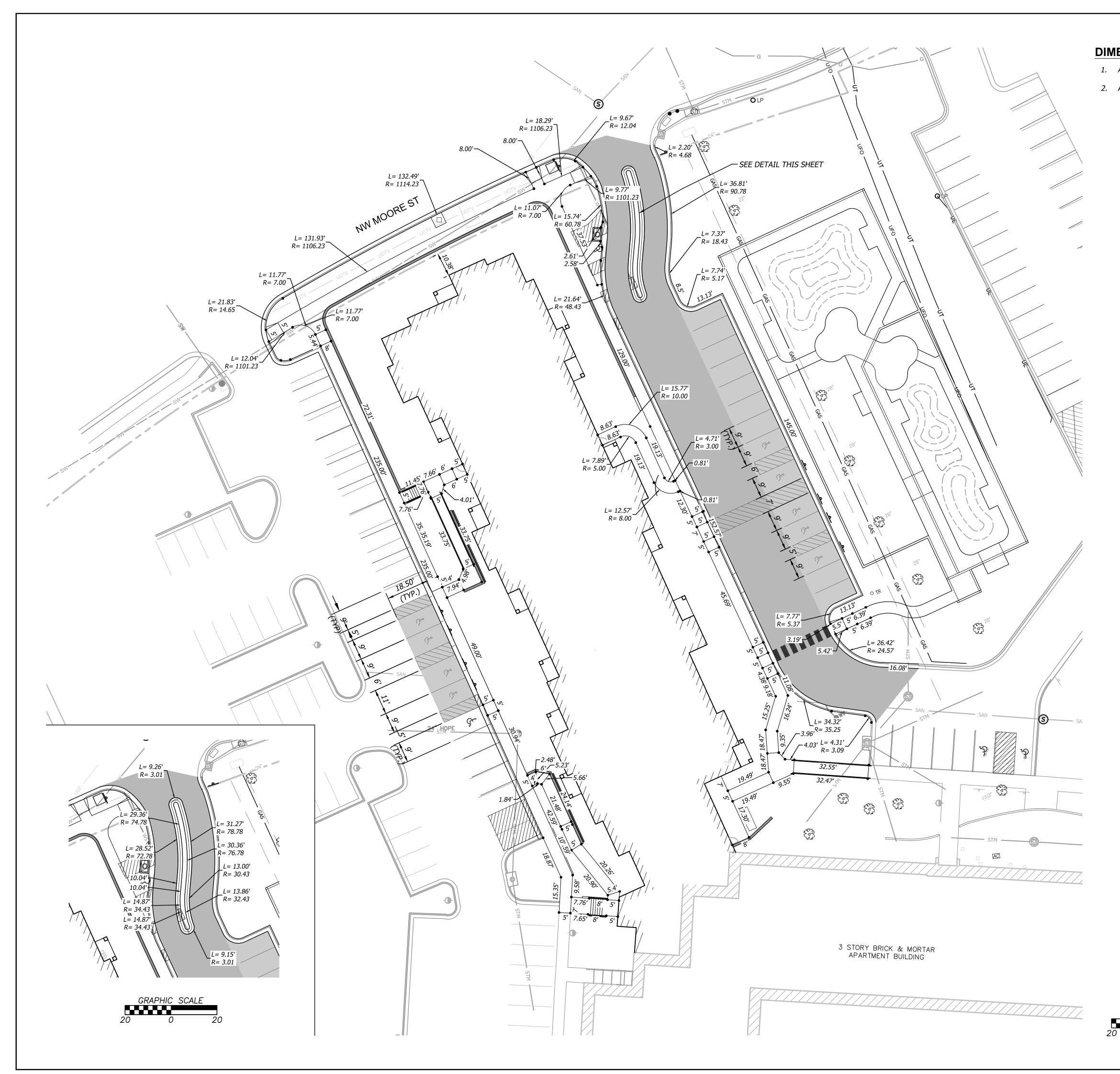
DEMOLITION PLAN

DRAWING

C1.0

DATE: December 1, 2023 23104.00 COMM. NO.





DIMENSION NOTES

1. ALL DIMENSIONS ARE TO/ALONG BACK OF CURB UNLESS OTHERWISE NOTED 2. ALL DIMENSIONS ARE TO BOTTOM OF WALL UNLESS OTHERWISE NOTED

DIMENSION LEGEND

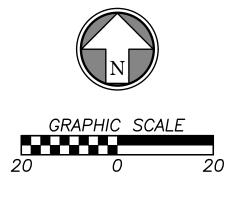
___Start/End of Line =14.00'=-Line Length

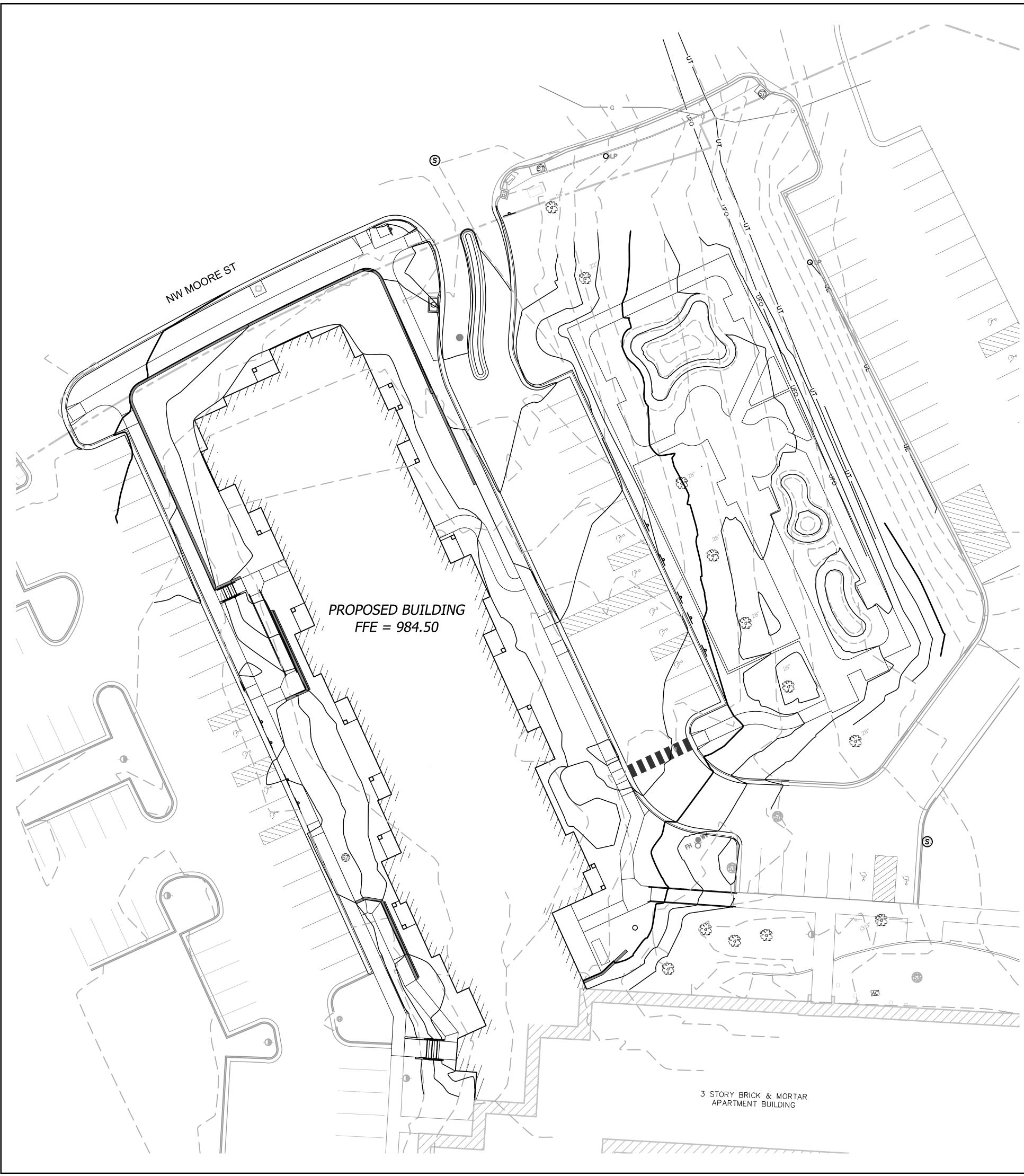
Curve Radius -Start/End of Curve R= 15.00' L= 15.46'

Curve Length



UMBEI





GRADING NOTES

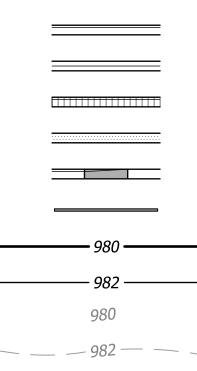
- SWPPP document maintained by the Contractor.
- pavement depths, building pads, topsoil, etc when grading the site.
- topsoil.
- 8.
- quicklime, as approved by the geotechnical engineer.
- 10. Finished grades shall not be steeper than 3:1.
- 12. A 2.0% maximum cross slope shall be maintained on all pedestrian sidewalks and paths.

FLOOD STATEMENT

416 and 417 of 625 Panel No.: Map Revised Date: January 20, 2017

NOTE: This statement is provided for informational purposes only and shall in no way constitute a basis for a flood certificate. No field work was performed to establish the boundaries of this zone. The information was derived by scaling the subject property on the above referenced map.

GRADING LEGEND



Contractor shall obtain a copy of the Geotechnical Services Report for the project and be familiar with the existing conditions and recommendations contained in the report if such a report has been prepared.

2. Contractor is responsible for any over excavation of existing unsuitable soils will be required under building and pavement areas. Contractor shall perform over excavation of unsuitable soils as a part of this work.

3. Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing the soils to the project site.

4. Contractor shall operate under the terms and permits included in the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project and permitted through the State of Kansas. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections in the

5. All topsoil, vegetation, root structures, and deleterious materials shall be stripped from the ground surface prior to the placement of embankments. Contractor shall obtain the on-site geotechnical representative's acceptance of the existing ground surface materials and the proposed fill material prior to the placement of fill.

6. All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for

All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of

All excavation and embankments shall comply with the recommendations provided by the geotechnical engineer.

Prior to placing any concrete or asphalt pavement the contractor shall perform a proof roll of the pavement sub-grade with a fully loaded tandem axle dump truck. The proof roll shall be conducted in the presence of the on-site geotechnical representative. Areas that display rutting or pumping that are unsatisfactory to the geotechnical representative shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or

11. All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.

The subject property lies within Flood Zone "X" (unshaded) (Areas determined to be outside the 0.2% annual chance floodplain.), as shown on the Jackson County, Missouri and Incorporated Areas Flood Insurance Rate Map (F.I.R.M.). Map Number: 29095C0416G and 29095C0417G

STANDARD CURB & GUTTER

ROLLOVER CURB & GUTTER

DRY CURB & GUTTER

ZERO HEIGHT CURB

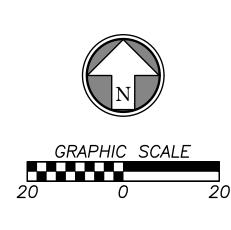
TRANSITION CURB RETAINING WALL

FINISH GRADE MAJOR CONTOURS

FINISH GRADE MINOR CONTOURS

EXISTING GRADE MAJOR CONTOURS

— _____ 982 — ____ EXISTING GRADE MINOR CONTOURS







FINAL DEVELOPMENT PLAN

PROJECT TITLE



SFCS Inc. = 1927 South Tryon St. - Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 Fax 704.372.7369 www.sfcs.com

DESIGNER : DAS ARCHITECT : DAS ENGINEER 📜 ERB

DRAWN : ARK CHECKED : ERB APPROVED : ERB REVISION DESCRIPTION

DATE

DRAWING TITLE

DATE:

COMM. NO.

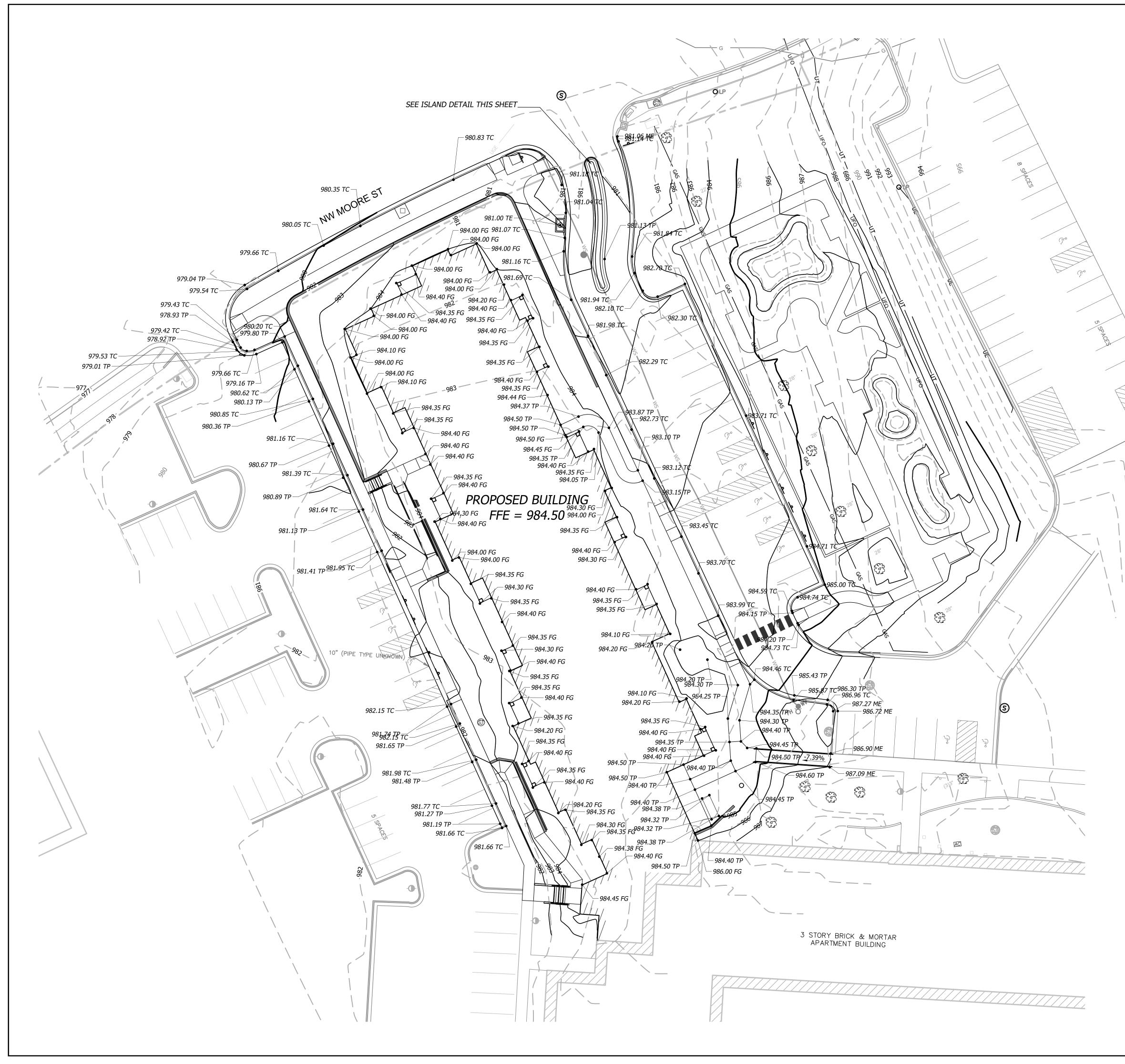
December 1, 2023

23104.00

GRADING PLAN

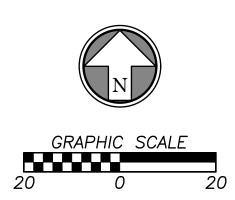
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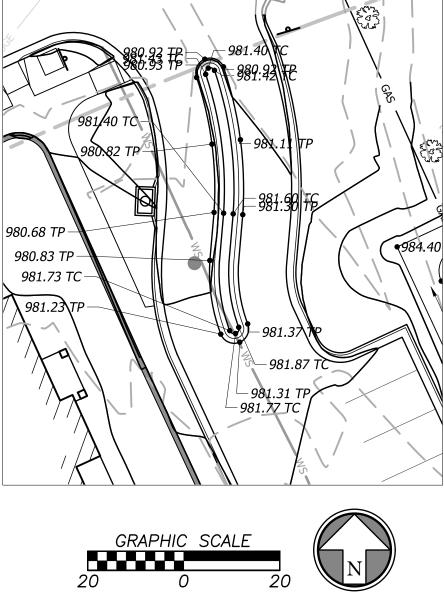
C4.0



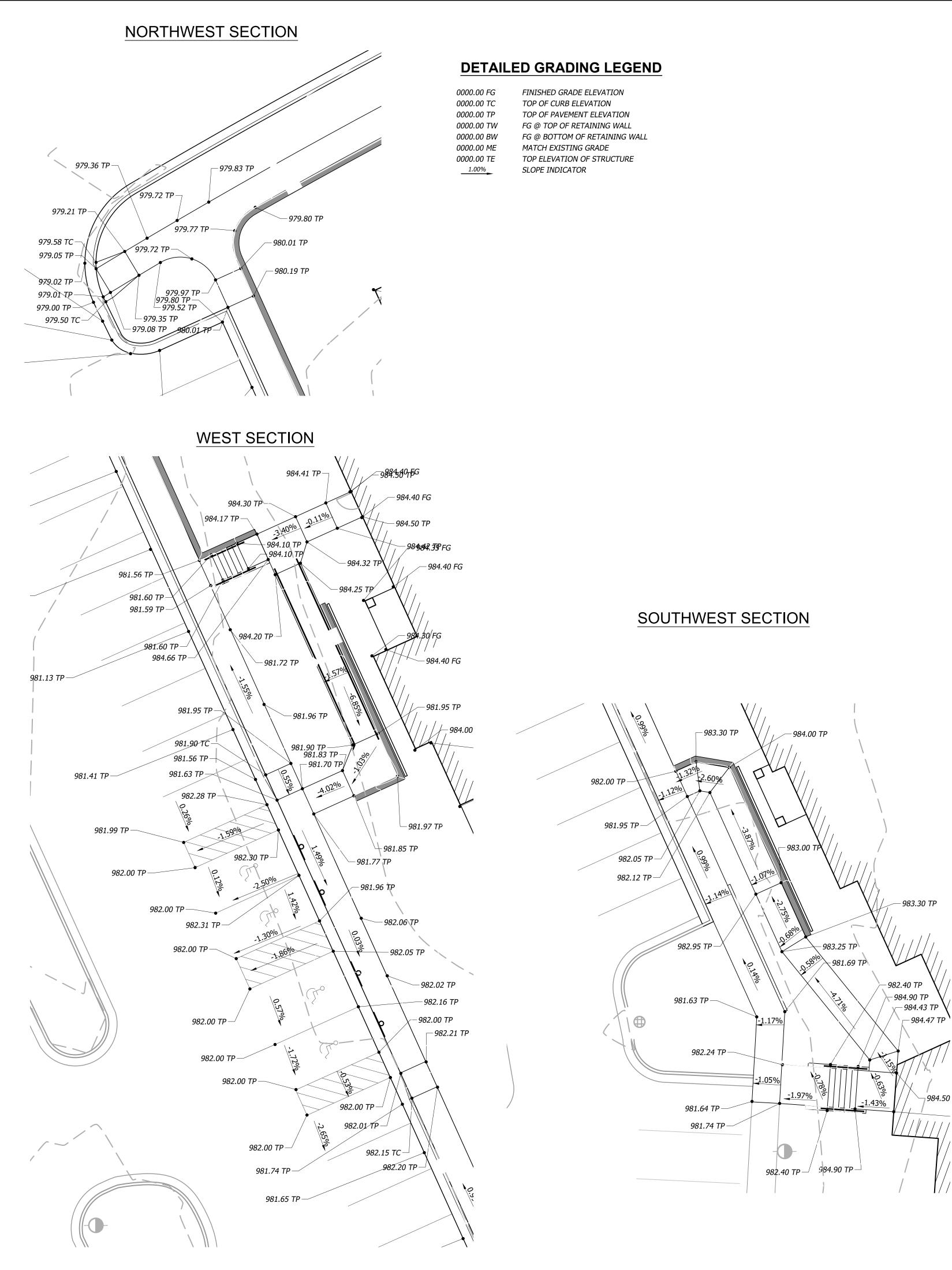
DETAILED GRADING LEGEND

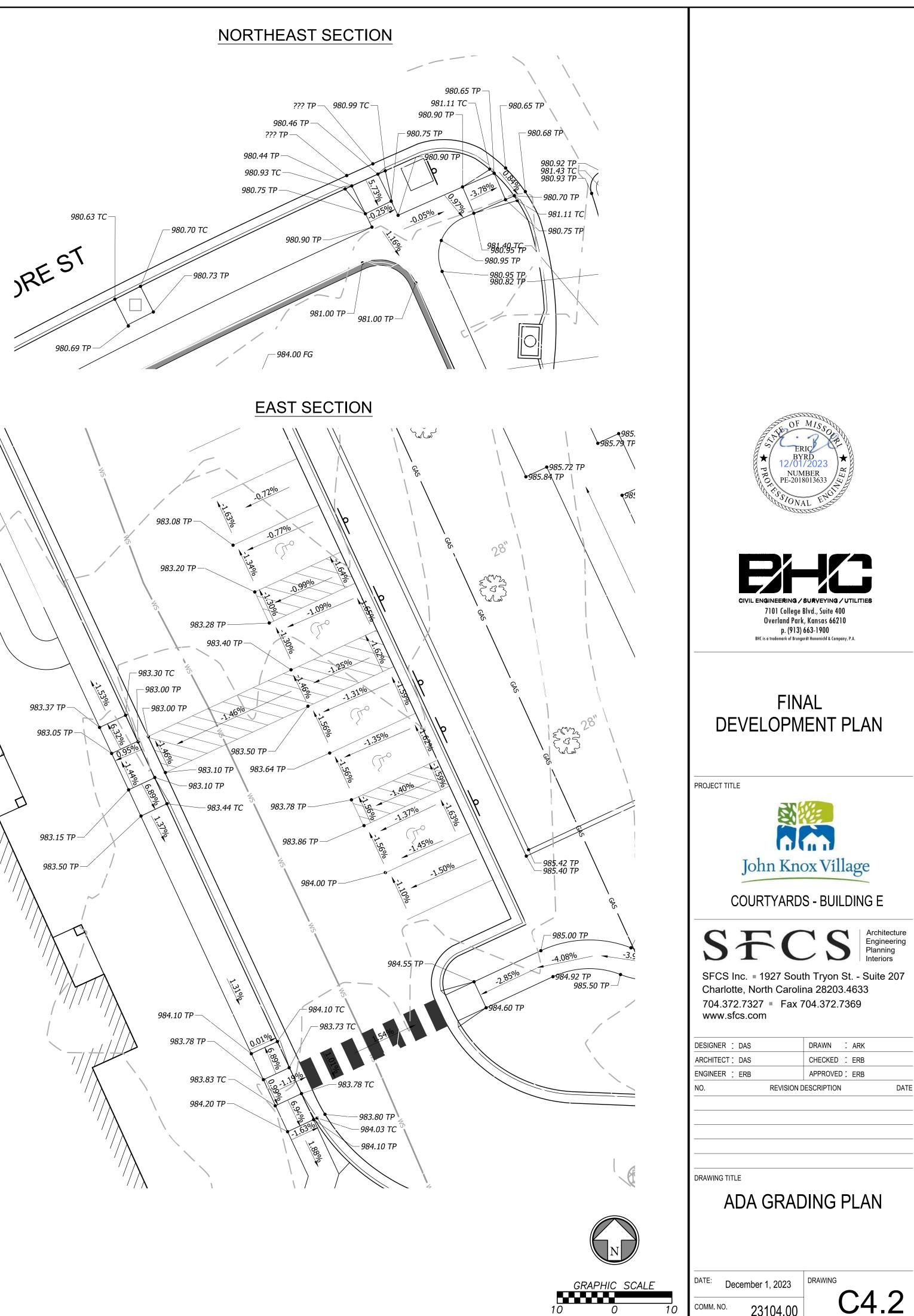
0000.00 FG 0000.00 TC 0000.00 TP 0000.00 TW 0000.00 BW 0000.00 ME 0000.00 TE FINISHED GRADE ELEVATION TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION FG @ TOP OF RETAINING WALL FG @ BOTTOM OF RETAINING WALL MATCH EXISTING GRADE TOP ELEVATION OF STRUCTURE





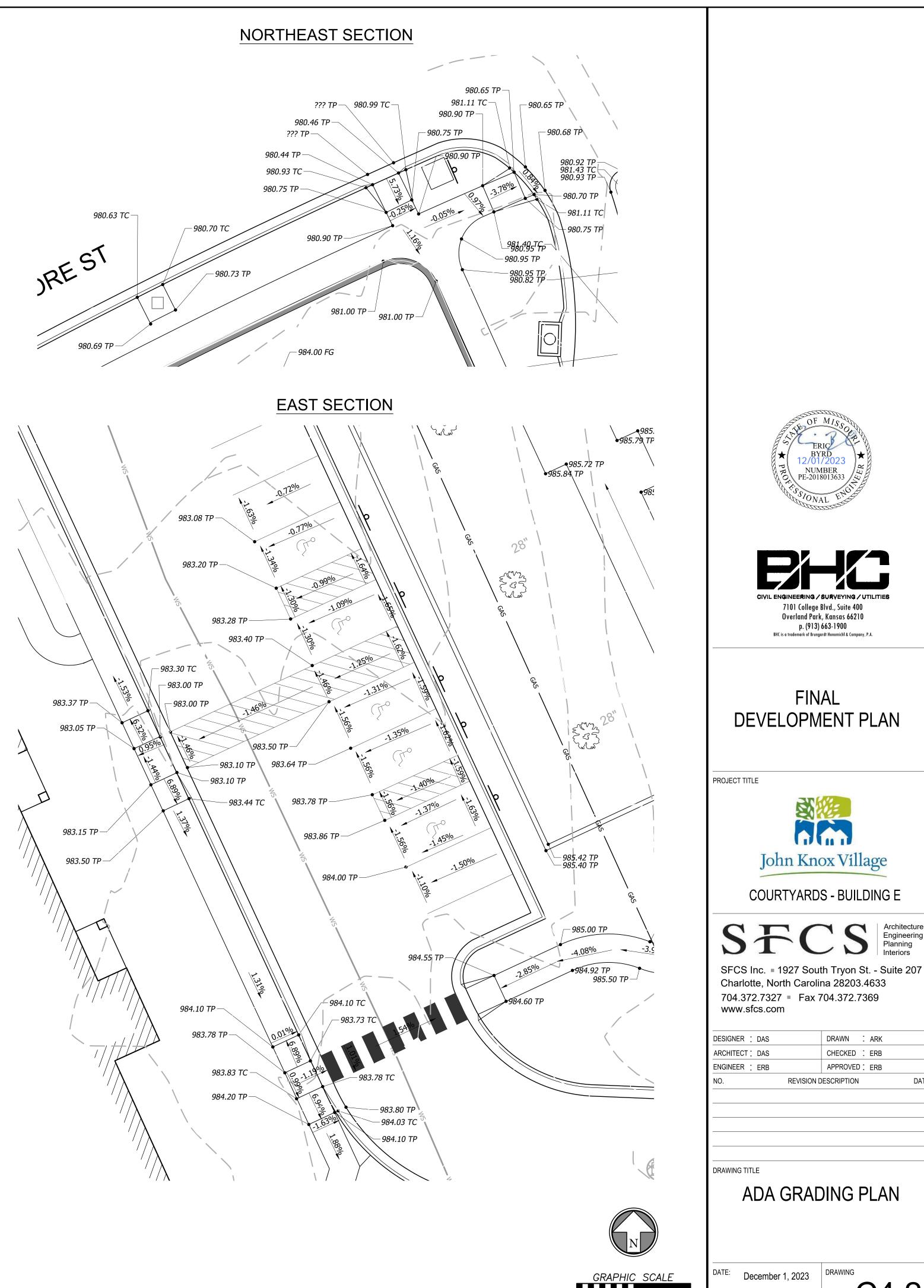


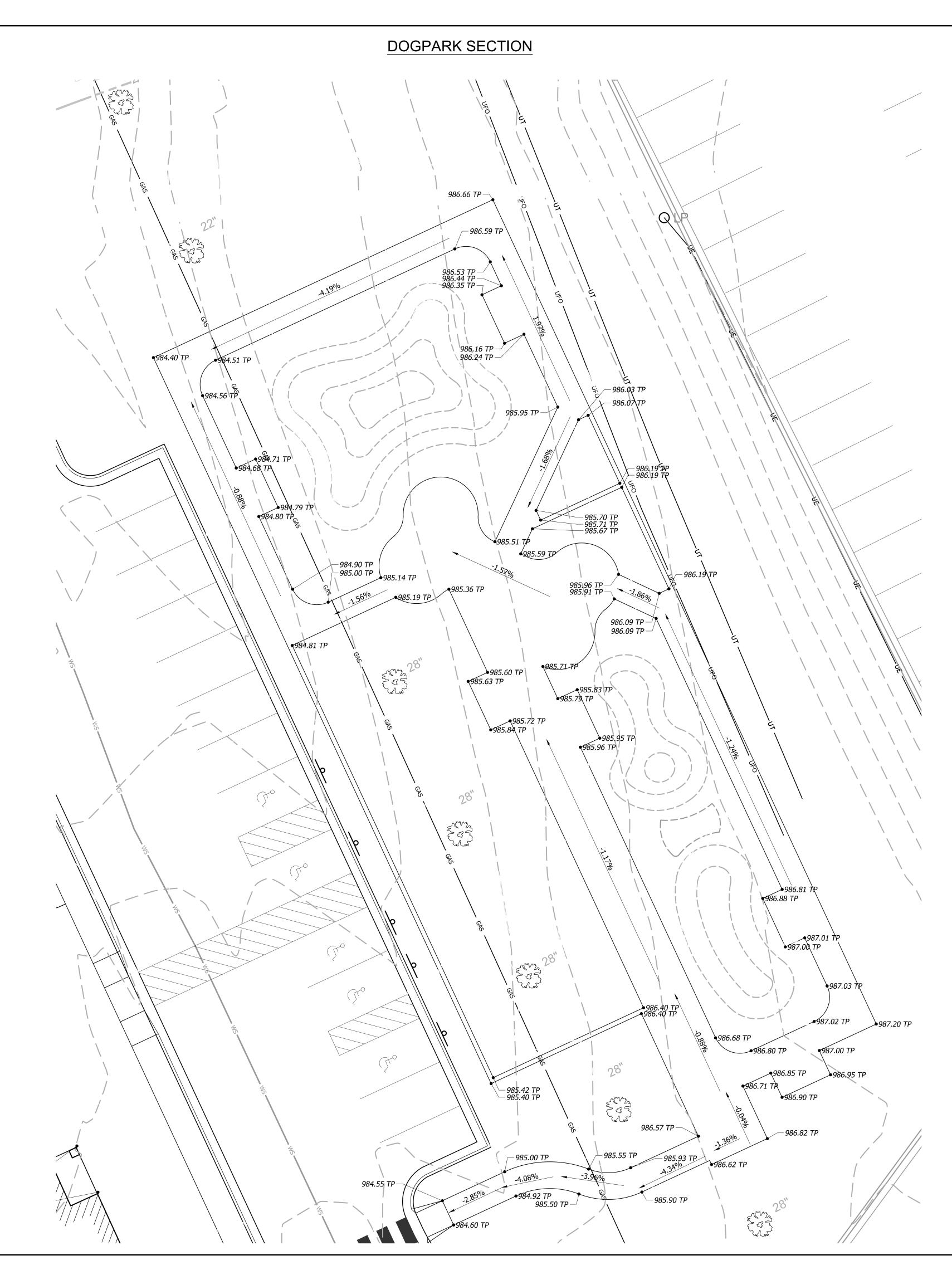




23104.00

COMM. NO.





DETAILED GRADING LEGEND

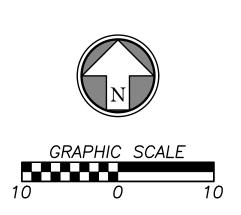
0000.00 FG
0000.00 TC
0000.00 TP
0000.00 TW
0000.00 BW
0000.00 ME
0000.00 TE
0000.00 XX
HIGH POINT
0000.00 XX
LOW POINT
1.00%

FINISHED GRADE ELEVATION TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION FG @ TOP OF RETAINING WALL FG @ BOTTOM OF RETAINING WALL MATCH EXISTING GRADE TOP ELEVATION OF STRUCTURE

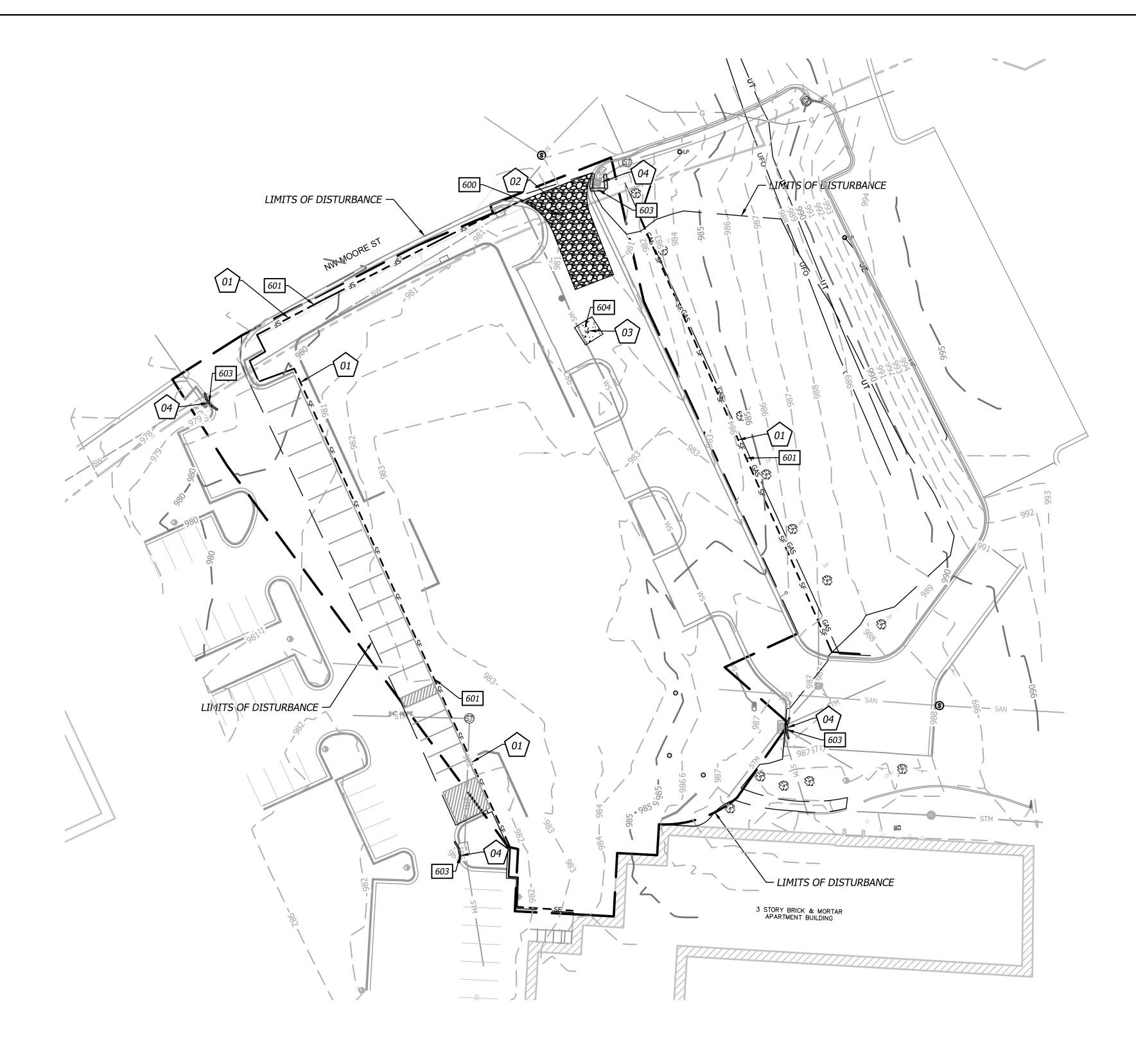
HIGH POINT AT SPECIFIC CALLOUT

LOW POINT AT SPECIFIC CALLOUT

SLOPE INDICATOR







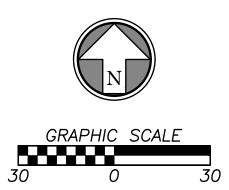
EROSION & SEDIMENT CONTROL STAGING CHART					
Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE–CON)	A — Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	С	Place as shown on plan
		02	Construction Entrance & Staging Area	С	Place as shown on plan
		03	Concrete Wash–Out	С	Place as shown on plan
		04	Existing Inlet Protection	С	Place as shown on plan
Phase II (MID–CON)	B – After Utility Storm Sewer Construction		Storm Inlet Protection	С	Place as shown on plan
Phase III (POST–CON)	C — Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

EROSION AND SEDIMENT CONTROL GENERAL NOTES

- 1. Prior to Land Disturbance activities, the contractor shall: • Delineate the outer limits of any natural stream corridor designated with construction fencing.
 - designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
 - conformance with the erosion and sediment control plan.
- ceased for more than 14 days.
 - o During active construction phases at least once per week o During periods of inactivity - at least once per 14 days o After each rainfall event of 1/2 inch or more - within 24 hours of the rain event
 - available for review by the regulatory authority.
- review by the regulatory authority.
- the entire disturbed area.
- intended to be left undisturbed, a storm sewer, or an on-site drainage channel.
- contractor shall install additional or alternate measures that provide effective control.
- area where waste concrete can solidify in place.
- and immediate actions taken to contain them.
- installation.
- installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- inspections, provide the City of Lee's Summit with reports and documentation.

EROSION CONTROL LEGEND

	DISTURBED AREA (0.00 AC)
— — — SF —	SILT/SEDIMENT FENCE
	INLET PROTECTION FILTER BAGS
	CONSTRUCTION ENTRANCE
	CONCRETE CLEANOUT



0	00	DETAILS
•	SEE EROS	SION CONTROL DETAIL SHEET FOR THE FOLLOWING

600	TEMPORARY CONSTRUCTION ENTRANCE
601	FILTER FABRIC SILT FENCE
603	STORM INLET PROTECTION

604 CONCRETE WASH-OUT

• Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures

• Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in

2. The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to: • The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has

• The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:

• The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be

• The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for

3. Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over

4. The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site

5. The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the

6. Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small

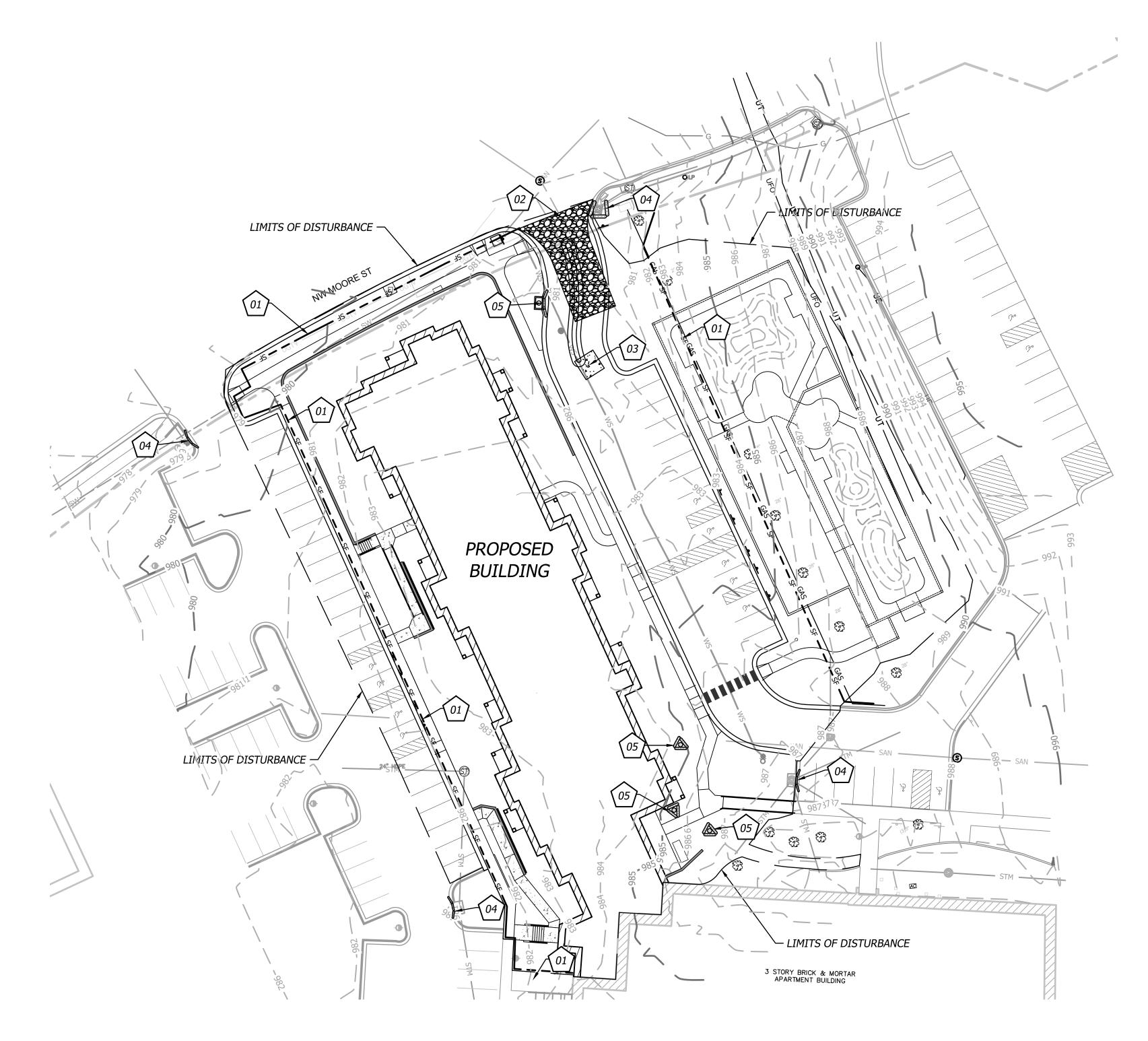
7. Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law

8. Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay

9. Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is

10. Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After





EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE–CON)	A — Place BMP's Prior to Land Disturbance		Perimeter Silt Fence	С	Place as shown on plan
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		04	Existing Inlet Protection	С	Place as shown on plan
Phase II (MID–CON)	B – After Utility Storm Sewer Construction		Storm Inlet Protection	С	Place as shown on plan
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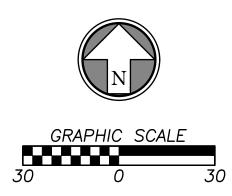
EROSION CONTROL LEGEND

 SF —

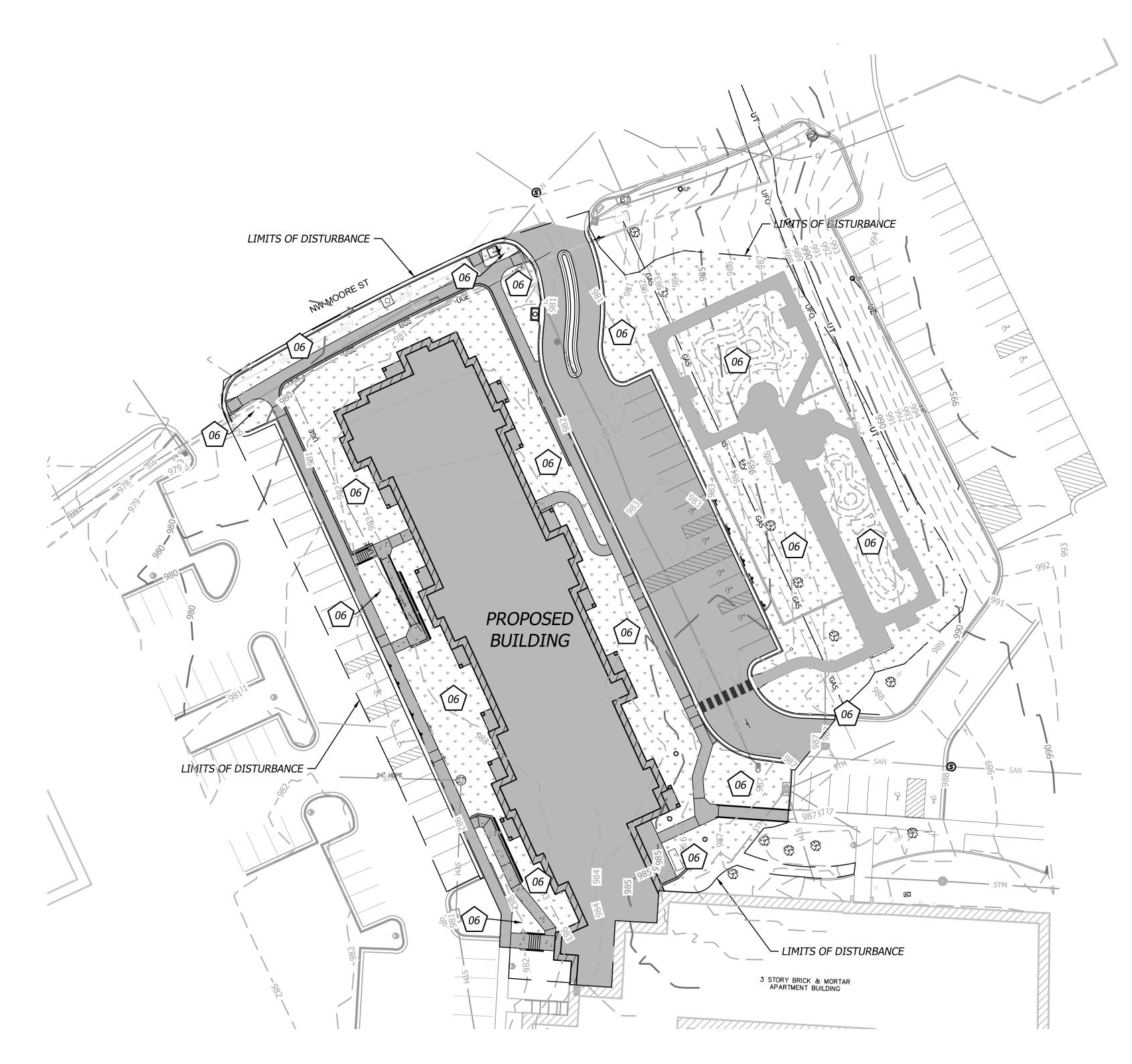
DISTURBED AREA (0.00 AC) SILT/SEDIMENT FENCE INLET PROTECTION FILTER BAGS CONSTRUCTION ENTRANCE CONCRETE CLEANOUT

OOD DETAILS SEE EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING

600 TEMPORARY CONSTRUCTION ENTRANCE
601 FILTER FABRIC SILT FENCE
603 STORM INLET PROTECTION
604 CONCRETE WASH-OUT





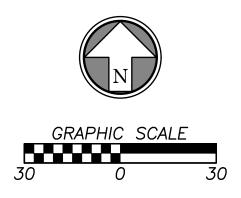


	EROSION & SEDIMENT CONTROL STAGING CHART					
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Phase II (MID–CON)	B – After Utility Storm Sewer Construction		Storm Inlet Protection	С	Place as shown on plan	
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Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ	

DISTURBED AREA (1.73 AC) FINAL SEEDING (SOD &/OR LANDSCAPING) IMPERVIOUS AREA (0.87 AC)







UTILITY CONSTRUCTION NOTES $(X \mid 00)$

W - WATER SERVICE INFORMATION - LEE'S SUMMIT WATER UTILITIES 01 EXISTING 6" WATER MAIN LINE. 02 CONNECT TO WATER MAIN WITH 2" CORPORATION STOP; REFER TO CONNECTION DETAIL. 03 INSTALL 22 LF OF 2" C-900 PVC SERVICE LINE WITH MINIMUM DEPTH OF COVER OF 42". INSTALL 2" METER IN PIT AND 2"X3" REDUCER AFTER METER. 04 INSTALL 21 LF OF 3" C-900 PVC SERVICE LINE WITH MINIMUM DEPTH OF COVER OF 42" 05 CONNECT WATER SERVICE TO BUILDING; SEE PLUMBING PLANS. 06 CONNECT TO WATER MAIN WITH 6"X6" TEE AND 6" GATE VALVE. 07 INSTALL 43 LF OF 6" C-900 FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER OF 42". 08 CONNECT FIRE PROTECTION LINE TO BUILDING PLUMBING ; SEE MEP PLANS. 09 FIRE DEPARTMENT CONNECTION. 10 11 CONNECT TO WATER MAIN WITH 6"X6" TEE AND 6" GATE VALVE. INSTALL 18 LF OF 6" C-900 FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER OF 42" 12 INSTALL FIRE HYDRANT ASSEMBLY. 13 CONNECT WATER SERVICE TO BUILDING; SEE PLUMBING PLANS 14 INSTALL 79 LF OF 3/4" COPPER WATER SERVICE WITH MINIMUM DEPTH OF COVER OF 42" 15 INSTALL 51 LF OF 3/4" COPPER WATER SERVICE WITH MINIMUM DEPTH OF COVER OF 42" 16 17 CONNECT WATER SERVICE TO DOG WATER FOUNTAIN; SEE INSTALLATION GUIDE 18 EXISTING FIRE HYDRANT ASSEMBLY. 19 INSTALL 6" DOUBLE CHECK DETCTOR ASSEMBLY IN CONCRETE VAULT; SEE DETAIL ON DETAIL SHEETS. VAULT SUMP TO INCLUDE 2-FOOT DIAMETER HOLE LINED WITH FILTER FABRIC AND FILL WITH CLEAN 3/4-INCH ROCK.

E - ELECTRIC SERVICE INFORMATION - EVERGY CONTRACTOR TO INSTALL PRIMARY UNDERGROUND ELECTRIC SERVICE FROM EXISTING ELECTRIC 01 STRUCTURE TO TRANSFORMER PAD.

- PROPOSED TRANSFORMER PAD. 02 03
- TRANSFORMER TO BUILDING; REF. ELECTRICAL PLAN.
- 04 PROPOSED GENERATOR; REFER TO MEP 05
- G GAS SERVICE INFORMATION SPIRE
- 01 EXISTING 4" GAS MAIN. TAP EXISTING GAS MAIN FOR SERVICE LINE; COORDINATE W/ SPIRE. 02
- INSTALL 92 LF GAS SERVICE LINE. 03
- GAS CONNECTION TO BLDG.; RE: PLUMBING PLAN. 04

ST - STORM SEWER INFORMATION - LEE'S SUMMIT PUBLIC WORKS

- 01 STORM SEWER LINE; RE: SHEET C6.2 02 CONNECT TO STORM STRUCTURE; FL = 981.00
- INSTALL 21 LF 6" HDPE @ 2% SLOPE 03 04
- INSTALL 19 LF 6" HDPE @ 2% SLOPE 05
- 06 07 CONNECT TO STORM PIPE WITH INSERTA TEE; FL = 980.00
- INSTALL 8 LF 6" HDPE @ 2% SLOPE 08

09 INSTALL 12" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 983.50; FL = 980.16

SS - SANITARY SEWER INFORMATION - LEE'S SUMMIT PUBLIC WORKS RELOCATED SANITARY SEWER MAIN; RE: SHEET C6.1 01 INSTALL SANITARY SEWER CLEANOUT 02 INSTALL 98 LF OF 4" PVC-SDR26 SANITARY SERVICE LINE @ 2% MIN. SLOPE 03 04 CONNECT SANITARY LINE TO DOG WATER FOUNTAIN; REFER TO INSTALLATION GUIDE CONNECT TO SANITARY MAIN WITH 10"X4" TEE; FL = 973.44 05 INSTALL 18 LF OF 8" PVC-SDR26 SANITARY SERVICE LINE @ 1% MIN. SLOPE 06 CONNECT TO BUILDING PLUMBING; REFER TO MEP 07 08 CONNECT TO SANITARY MANHOLE; FL = 970.42

UTILITY CONTACTS

<u>PLANNING AND DEVELOPMENT</u>	<u>CODES ADMINISTRATION</u>
<u>CITY HALL</u>	<u>CITY HALL</u>
220 SE GREEN STREET	220 SE GREEN STREET
LEE'S SUMMIT, MO 64063	LEE'S SUMMIT, MO 64063
TEL: (816) 969-1600	TEL: (816) 969-1200
TEL: (816) 969-1600	TEL: (816) 969-1200
FAX: (816) 969-1619	FAX: (816) 969-1201
PUBLIC WORKS	WATER UTILITIES

PUBLIC WORKS CITY HALL CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1800 FAX: (816) 969-1809

UTILITY NOTES

LINES.

2. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

- 3. CONTRACTOR TO ENSURE 6" MINIMUM SEPARATION BETWEEN UTILITIES AT CROSSINGS. CONTRACTOR TO CALL CIVIL IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND. *4. FIRE LINE NOTES:*
- APPLICABLE CODES AND STANDARDS.
 - BEING BACKFILLED.
- OF PRIVATE FIRE LINES.
- BUILDING BY MECHANICAL/PLUMBING CONTRACTOR.
- 6. CONTRACTOR TO ENSURE MIN. 18" VERTICAL SEPARATION BETWEEN UTILITIES AT CROSSING. CONTRACTOR TO CALL ENGINEER IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND.

CONTRACTOR TO INSTALL SECONDARY UNDERGROUND ELECTRIC SERVICE LINE FROM PROPOSED

PROPOSED RELOCATED LIGHT POLE; REFER TO MEP

INSTALL 12" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 984.00; FL = 981.42

INSTALL 8" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 984.20; FL = 981.80

CITY OF LEE'S SUMMIT, MO

WATER UTILITIES

1200 SE HAMBLEN RD LEE'S SUMMIT, MO 64063 TEL: (816) 969-1900 FAX: (816) 969-1935

PLANNING AND DEVELOPMENT CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1600 FAX: (816) 969-1619

PUBLIC WORKS CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1800 FAX: (816) 969-1809

CONTRACTOR SHALL REFER TO ALL SPECIFICATIONS, GUIDELINES, AND INSTALLATION DRAWINGS FROM THE CITY OF LEE'S SUMMIT, EVERGY, AND SPIRE FOR THE INSTALLATION OF ALL SERVICE

ELECTRIC COMPANY

TEL: (888) 471-5275

TEL: (816) 756-5252

GAS COMPANY

EVERGY

SPIRE

4.1. ALL PRIVATE FIRE LINES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, AND OTHER

4.2. CONTACT THE FIRE DEPARTMENT TO SCHEDULE INSPECTIONS <u>PRIOR TO</u> PRIVATE FIRE LINES

4.3. CONTACT THE FIRE DEPARTMENT TO WITNESS SCHEDULED HYDROSTATIC TESTS AND FLUSHES

5. STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE



NUMBER PE-201801363



FINAL DEVELOPMENT PLAN

PROJECT TITLE



COURTYARDS - BUILDING E

SFCS Architecture Engineering Planning Interiors SFCS Inc. = 1927 South Tryon St. - Suite 207 Charlotte, North Carolina 28203.4633

704.372.7327 Fax 704.372.7369 www.sfcs.com

DESIGNER 📜 DAS ARCHITECT : DAS ENGINEER 📜 ERB

DRAWN 🕺 ARK CHECKED : ERB APPROVED : ERB REVISION DESCRIPTION

DATE

C6.0

DRAWING TITLE

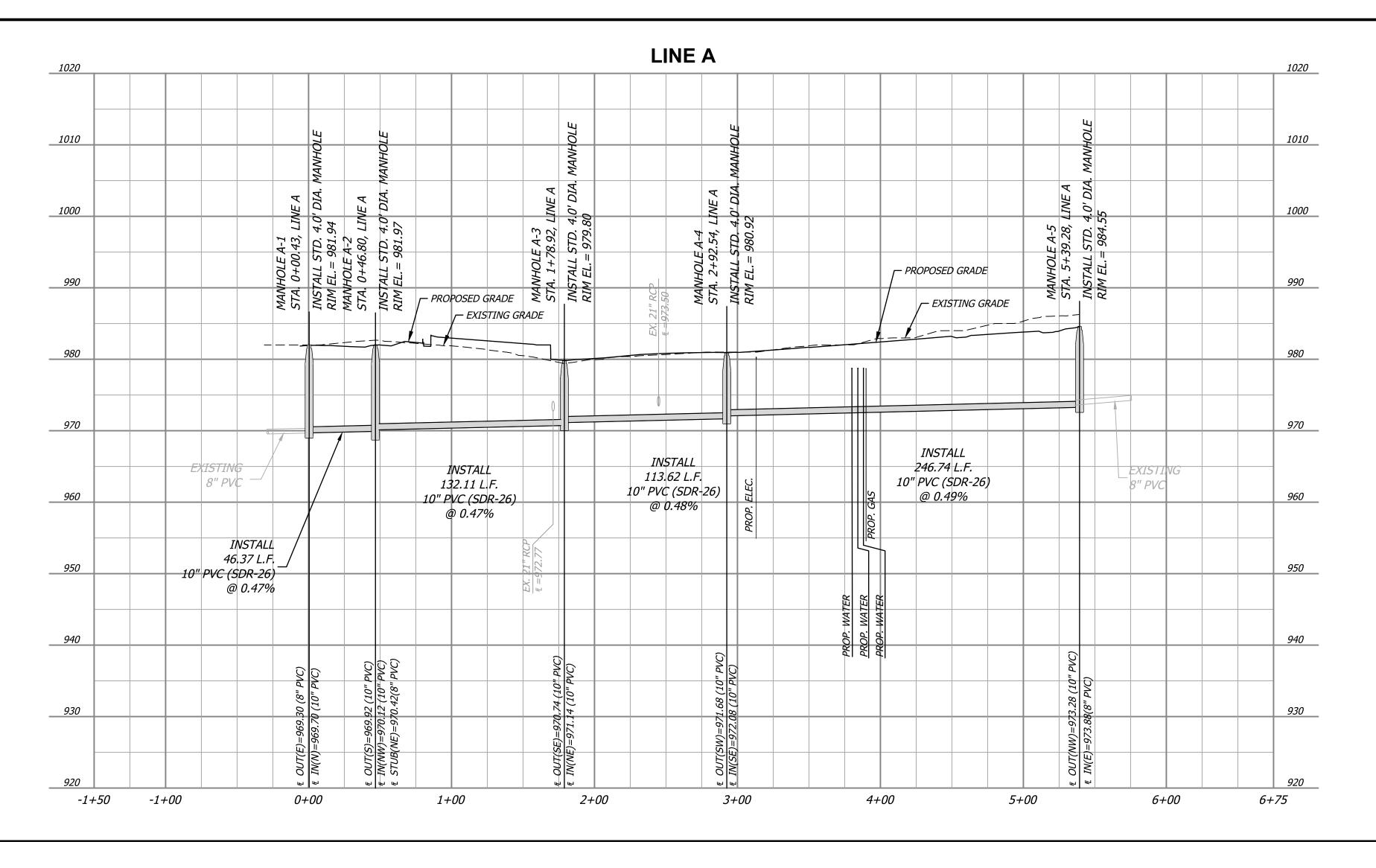
UTILITY PLAN

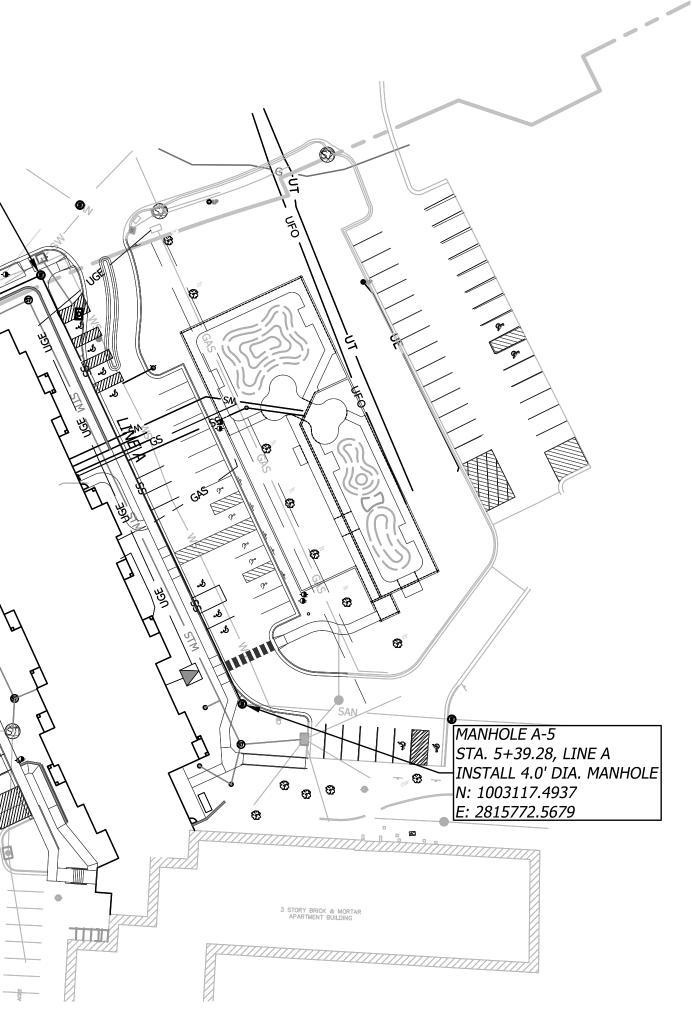
DRAWING

DATE: December 1, 2023

DMM. NO. 23104.00

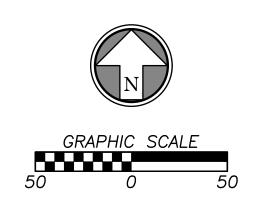
MANHOLE A-4 STA. 2+92.54, LINE A INSTALL 4.0' DIA. MANHOLE N: 1003340.8172 E: 2815667.6448 MANHOLE A-3 STA. 1+78.92, LINE A INSTALL 4.0' DIA. MANHOLE N: 1003293.8968 E: 2815564.1669 MANHOLE A-2 STA. 0+46.80, LINE A INSTALL 4.0' DIA. MANHOLE N: 1003174.3884 E: 2815620.4874 MANHOLE A-1 STA. 0+00.43, LINE A INSTALL 4.0' DIA. MANHOLE N: 1003128.0850 E: 2815618.0116

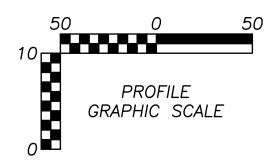




SANITARY NOTE

ALL NORTHINGS, EASTINGS, AND ALIGNMENT STATIONING FOR SANITARY STRUCTURES ARE TO CENTER OF STRUCTURE UNLESS STATED OTHERWISE.









FINAL DEVELOPMENT PLAN

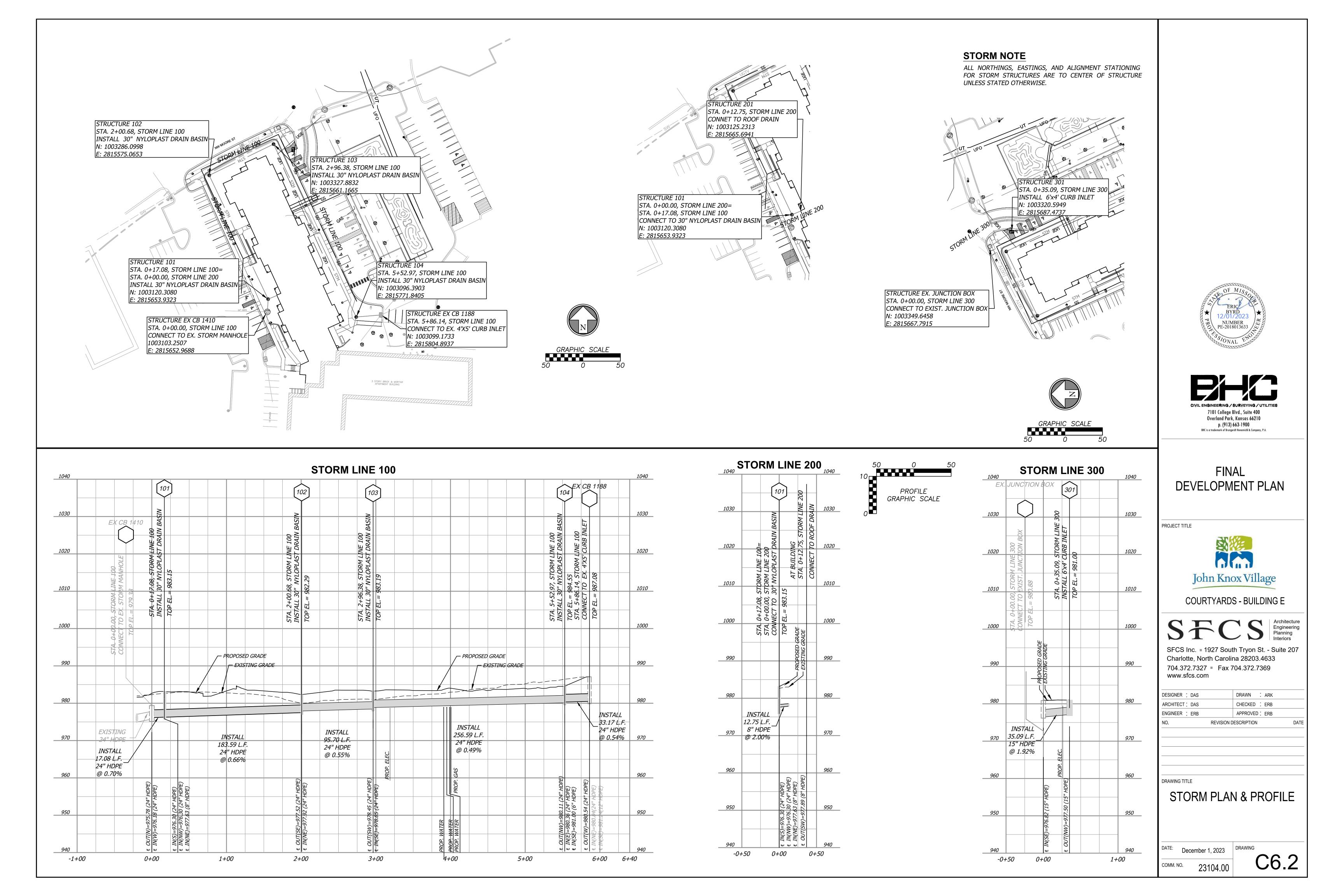
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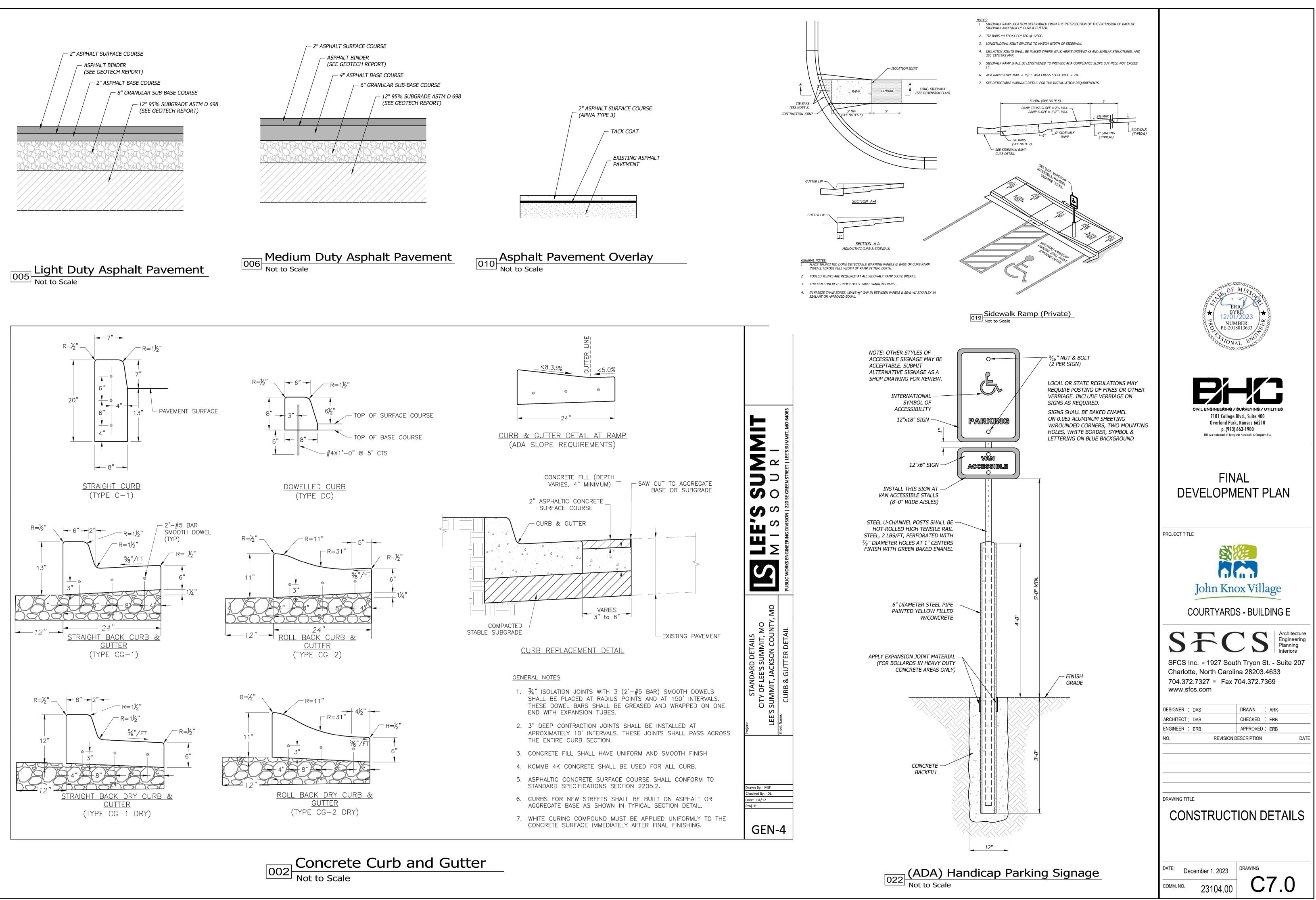


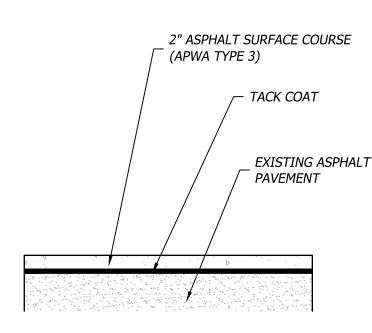
23104.00

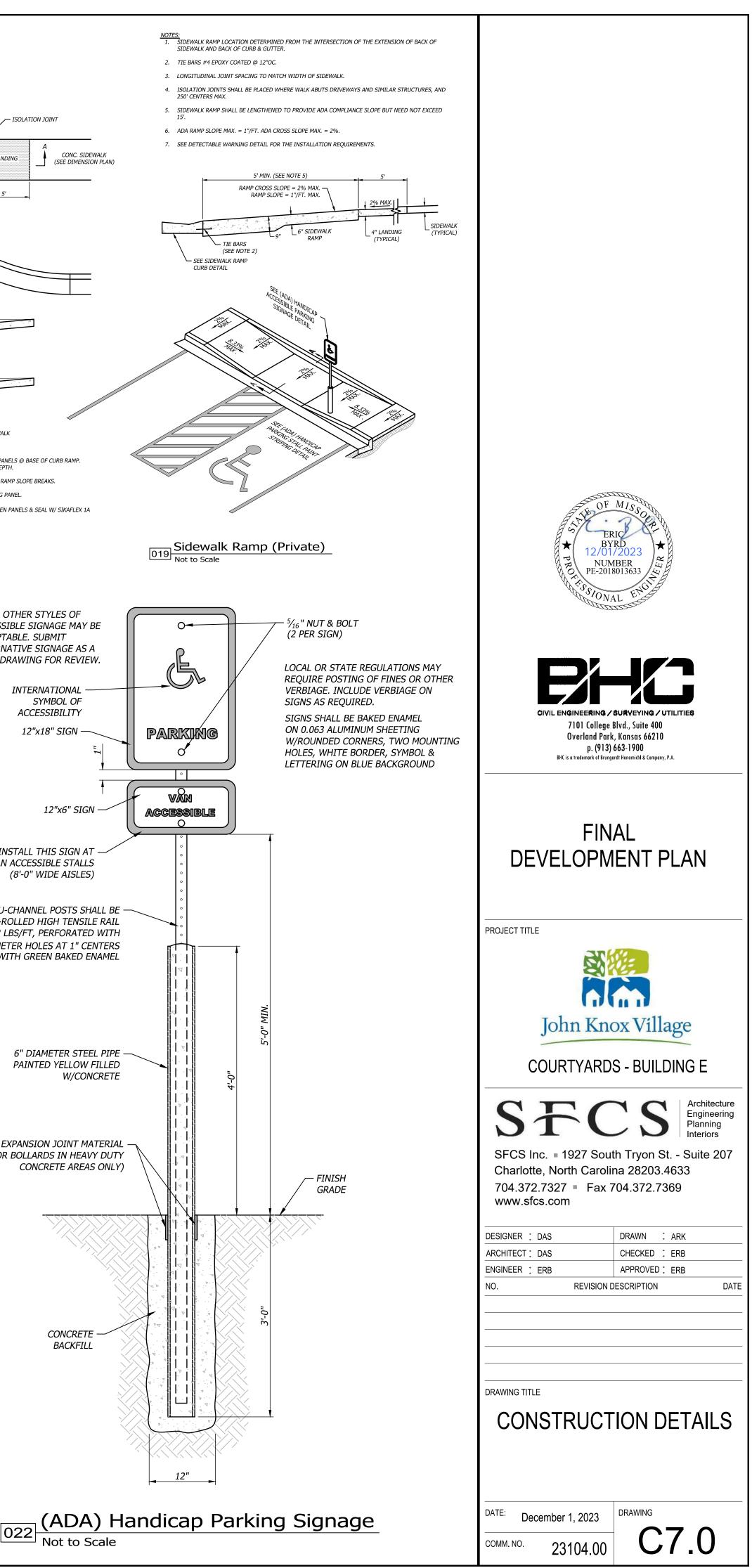
COMM. NO.

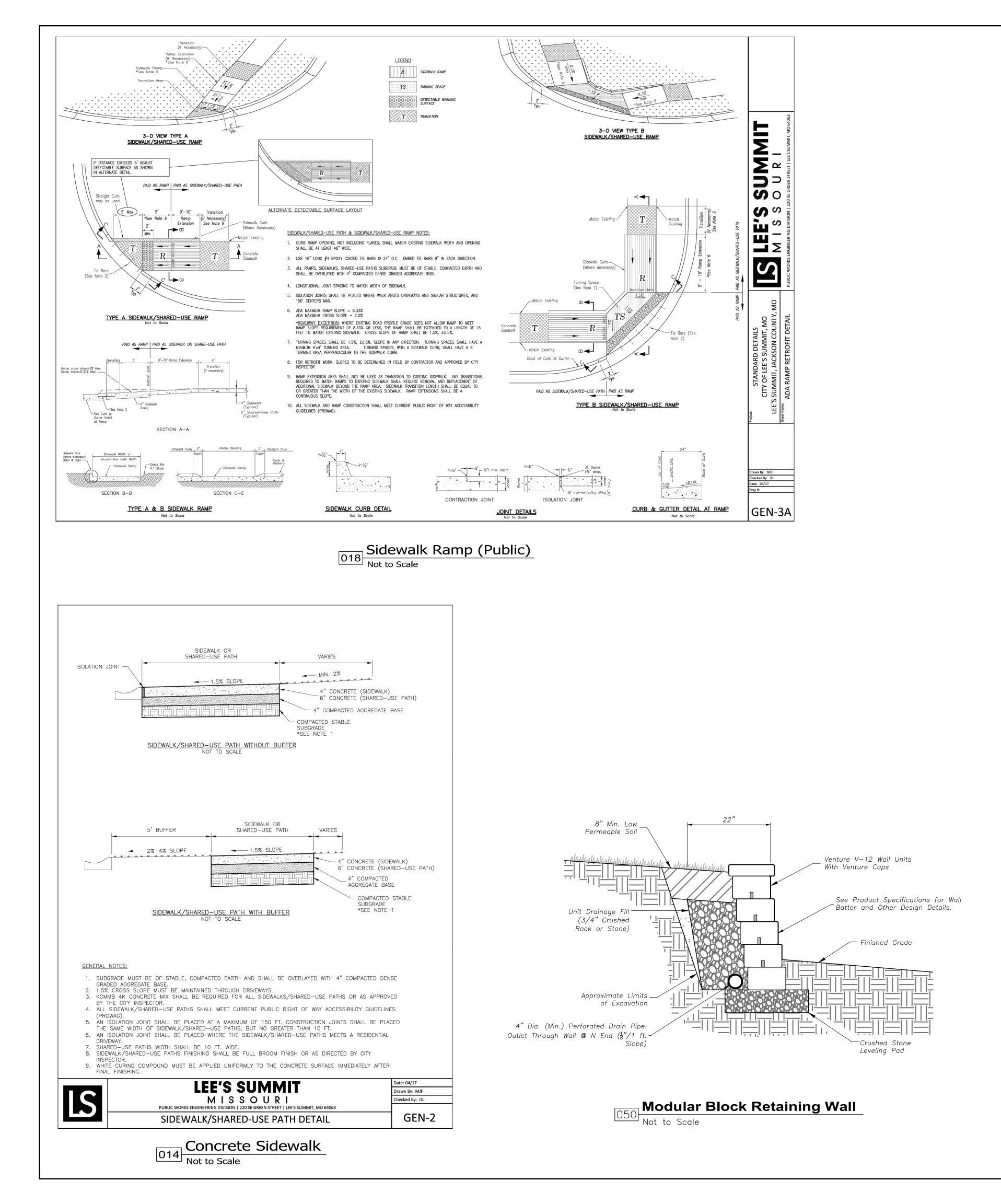
C6.1

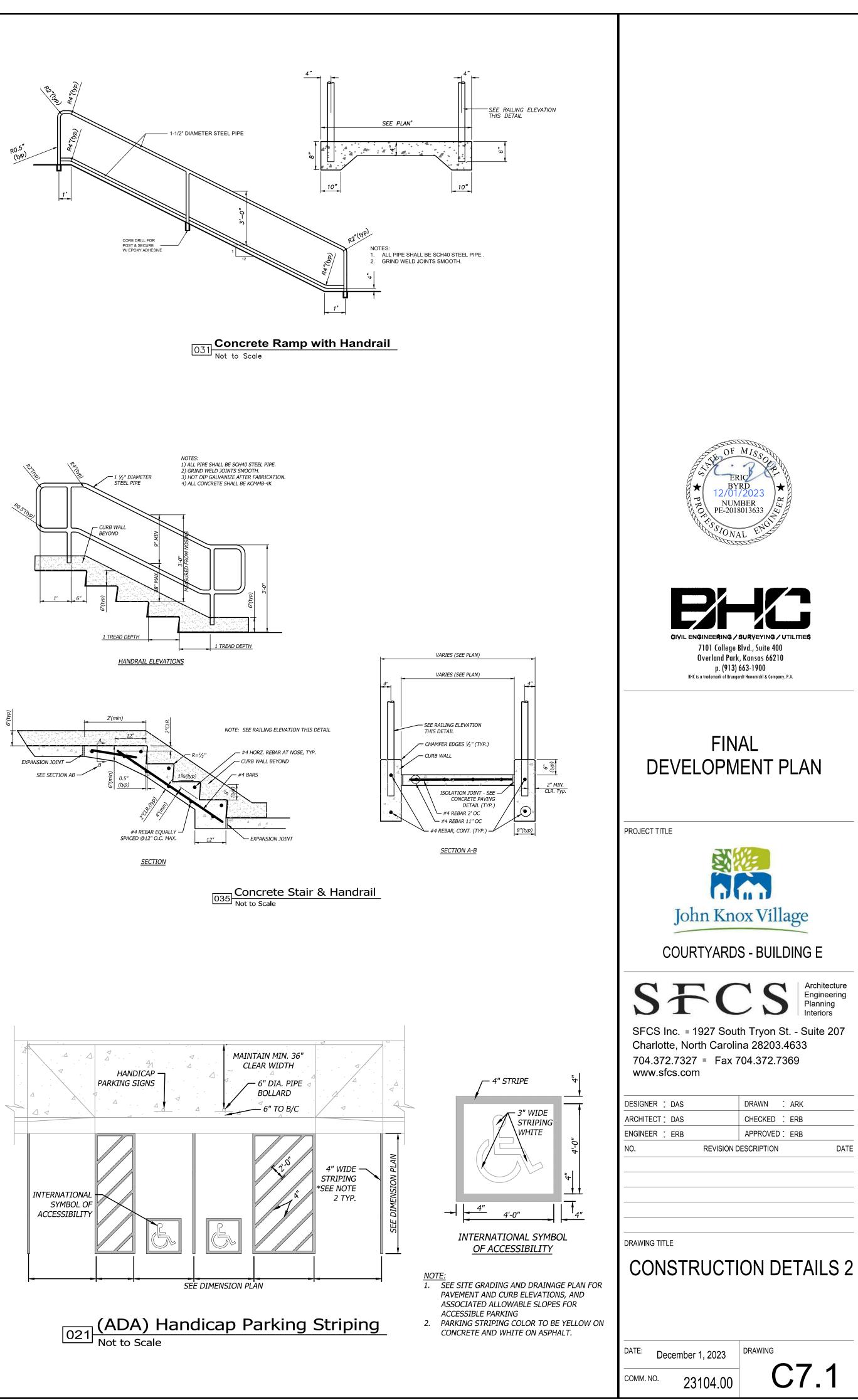


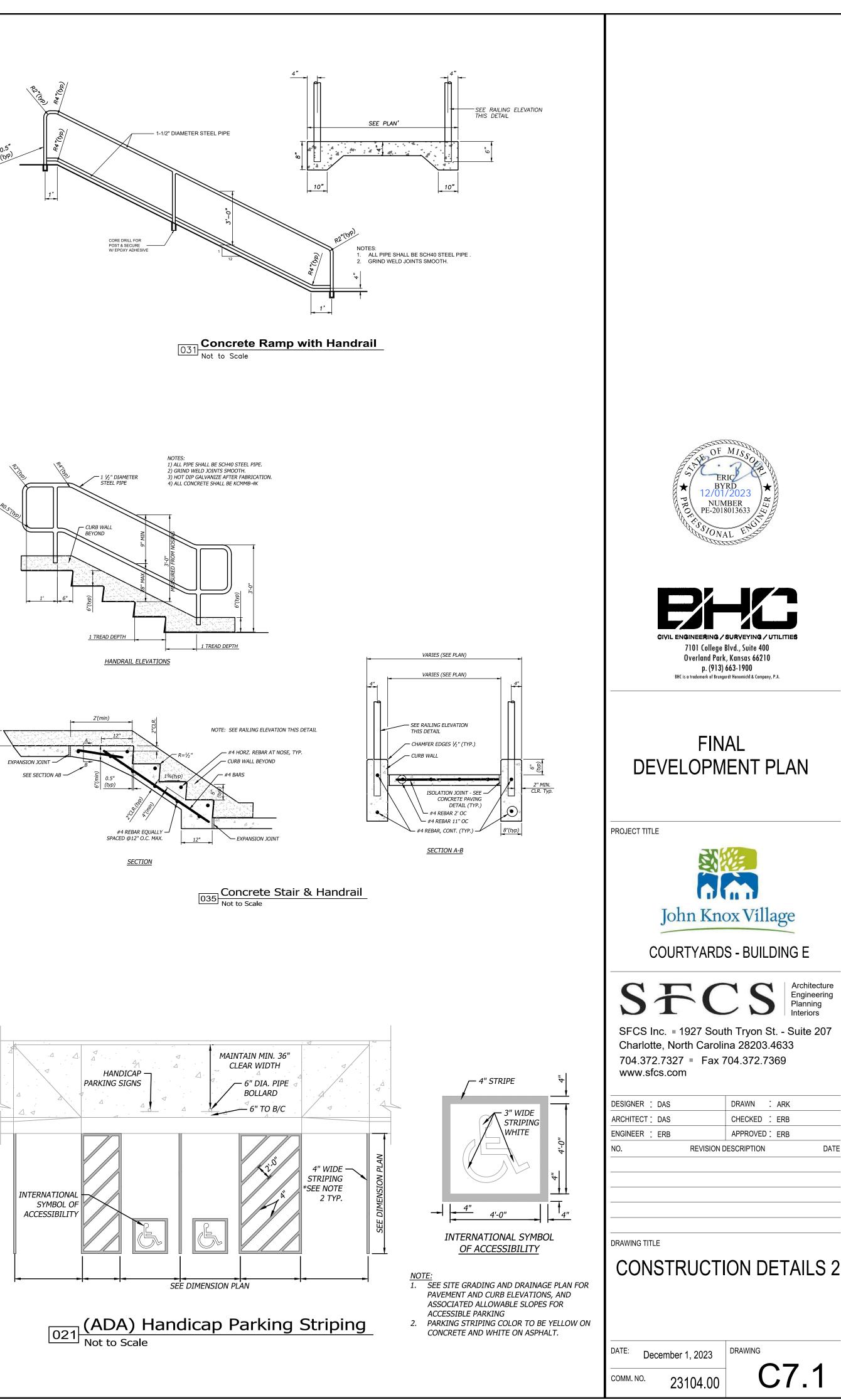


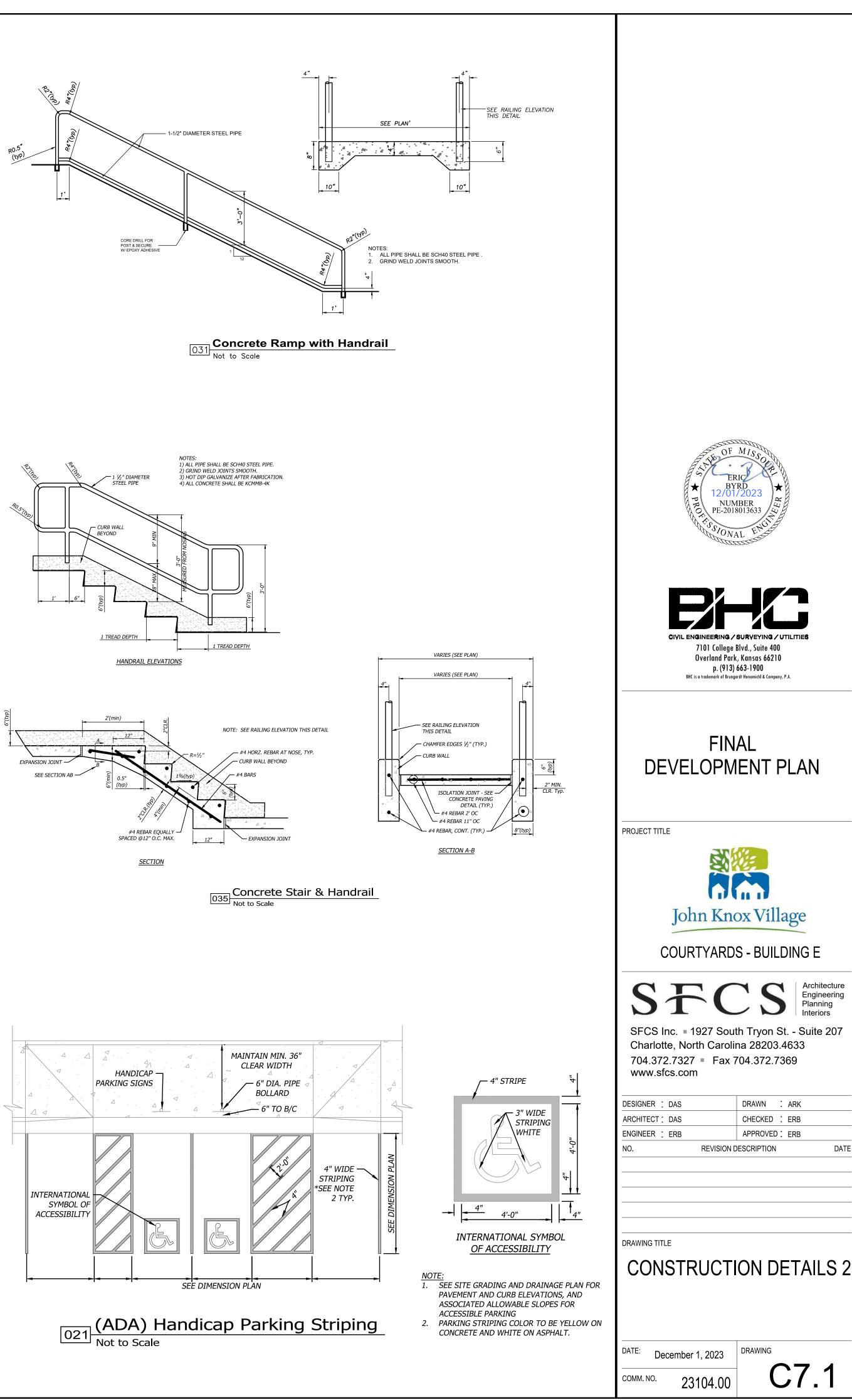


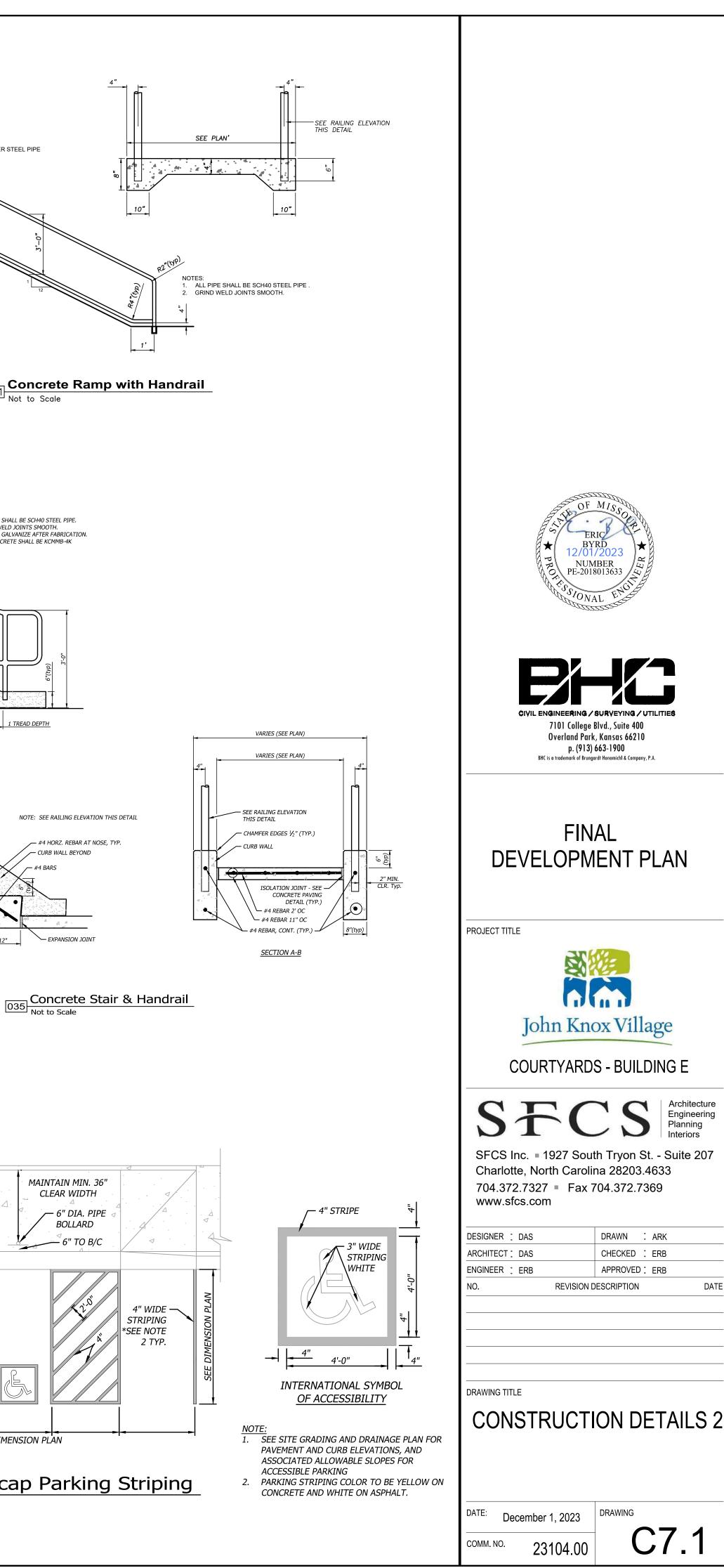


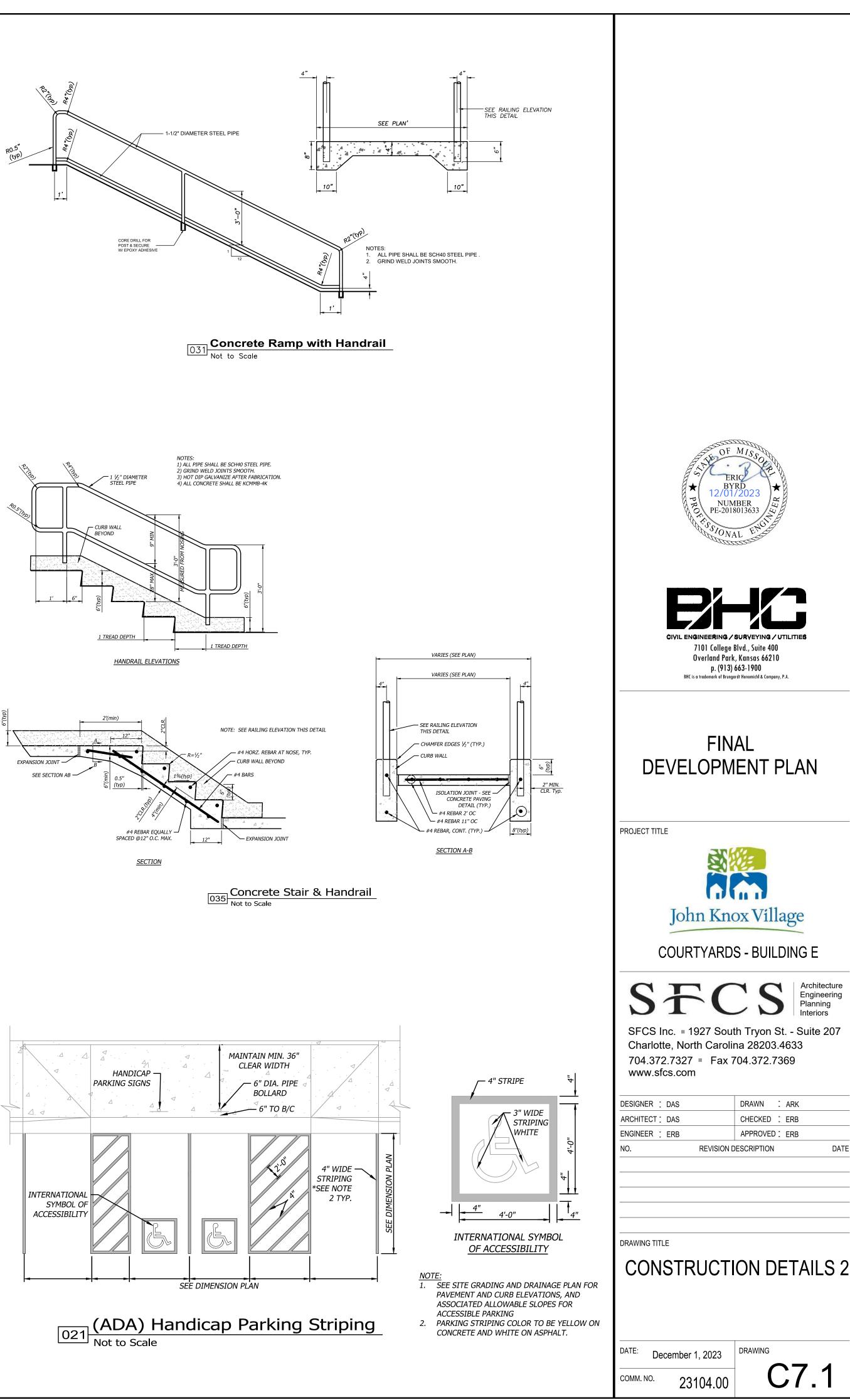


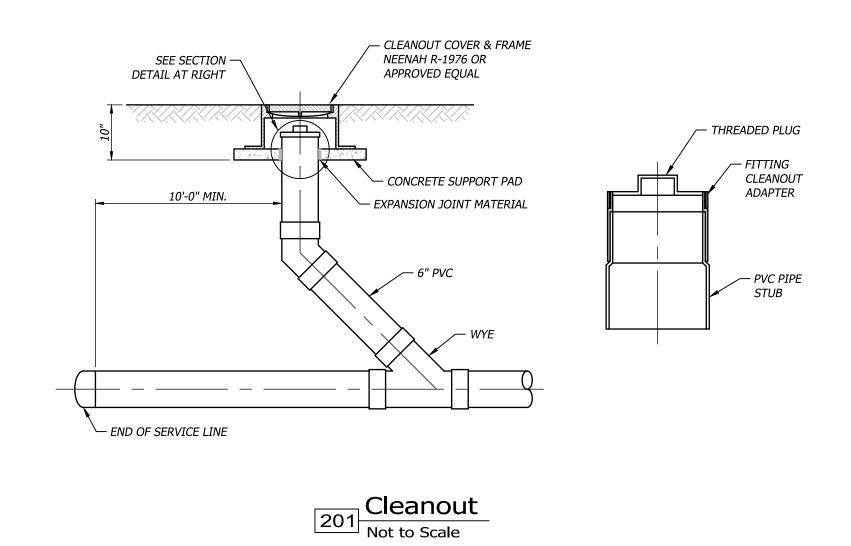


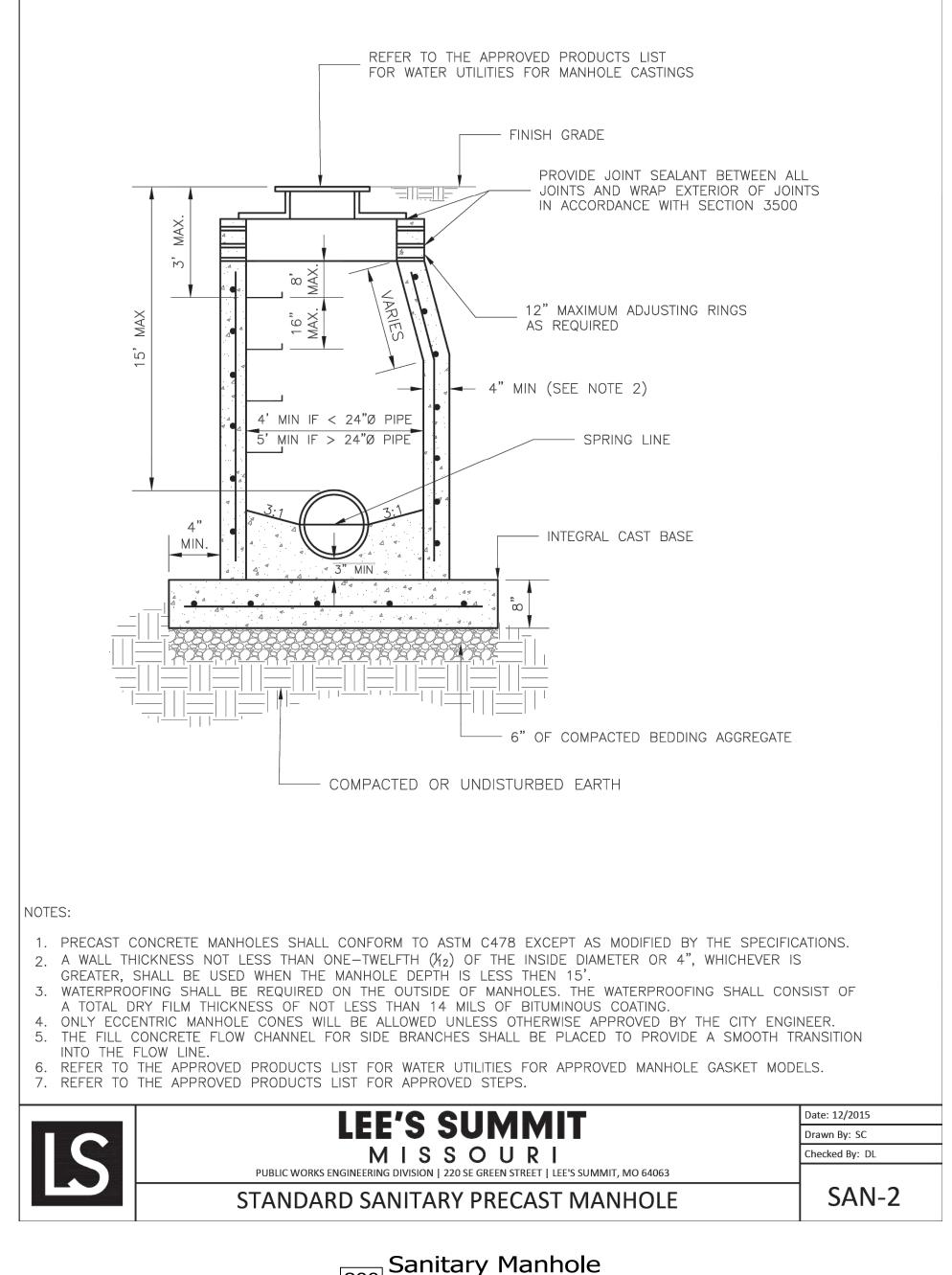




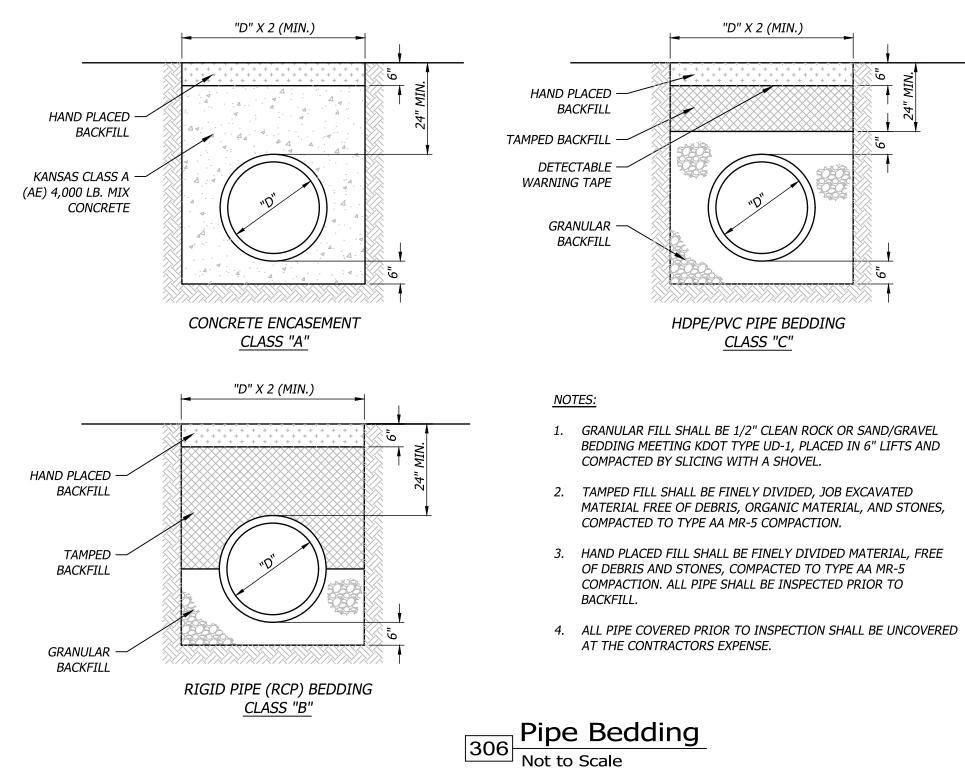


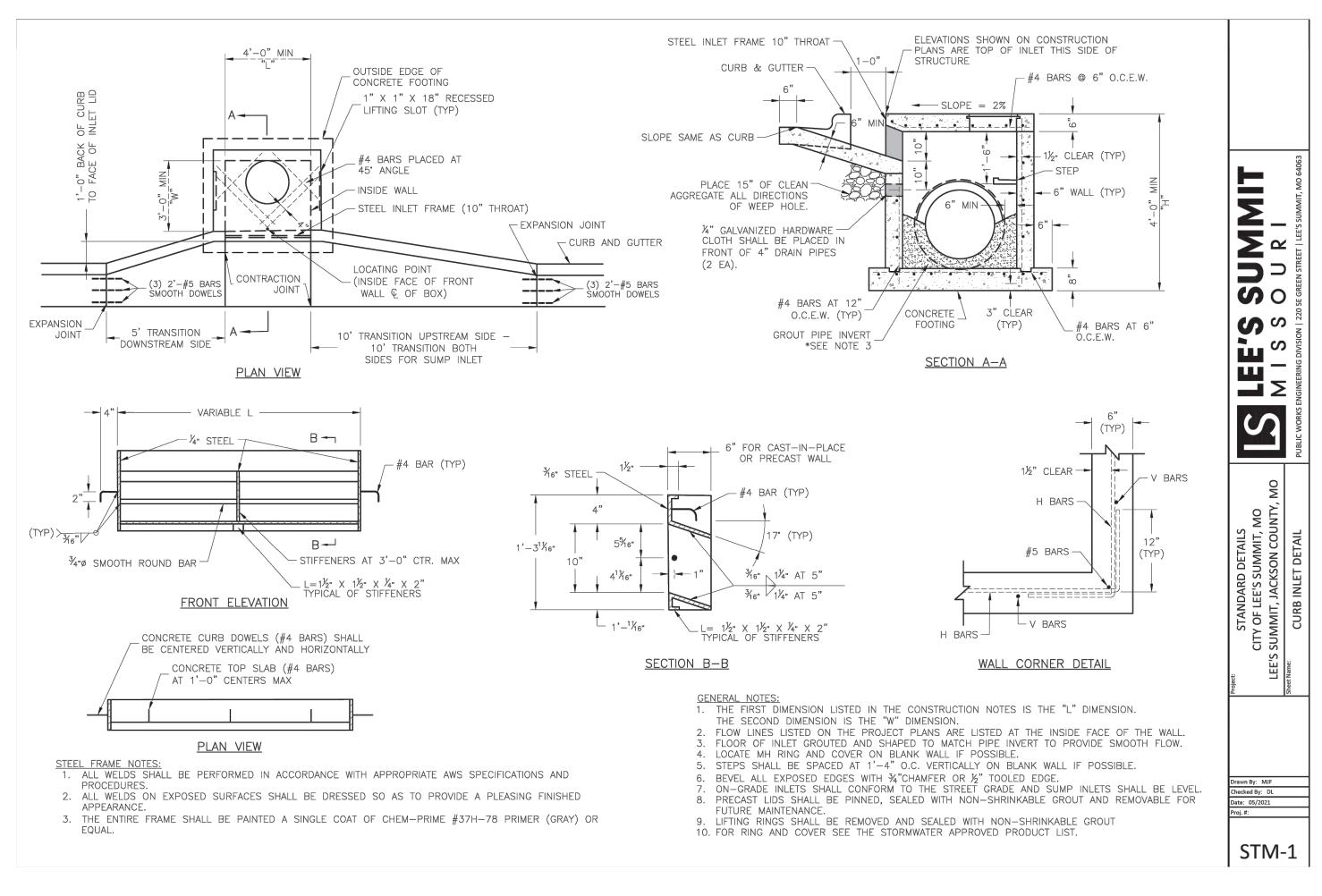






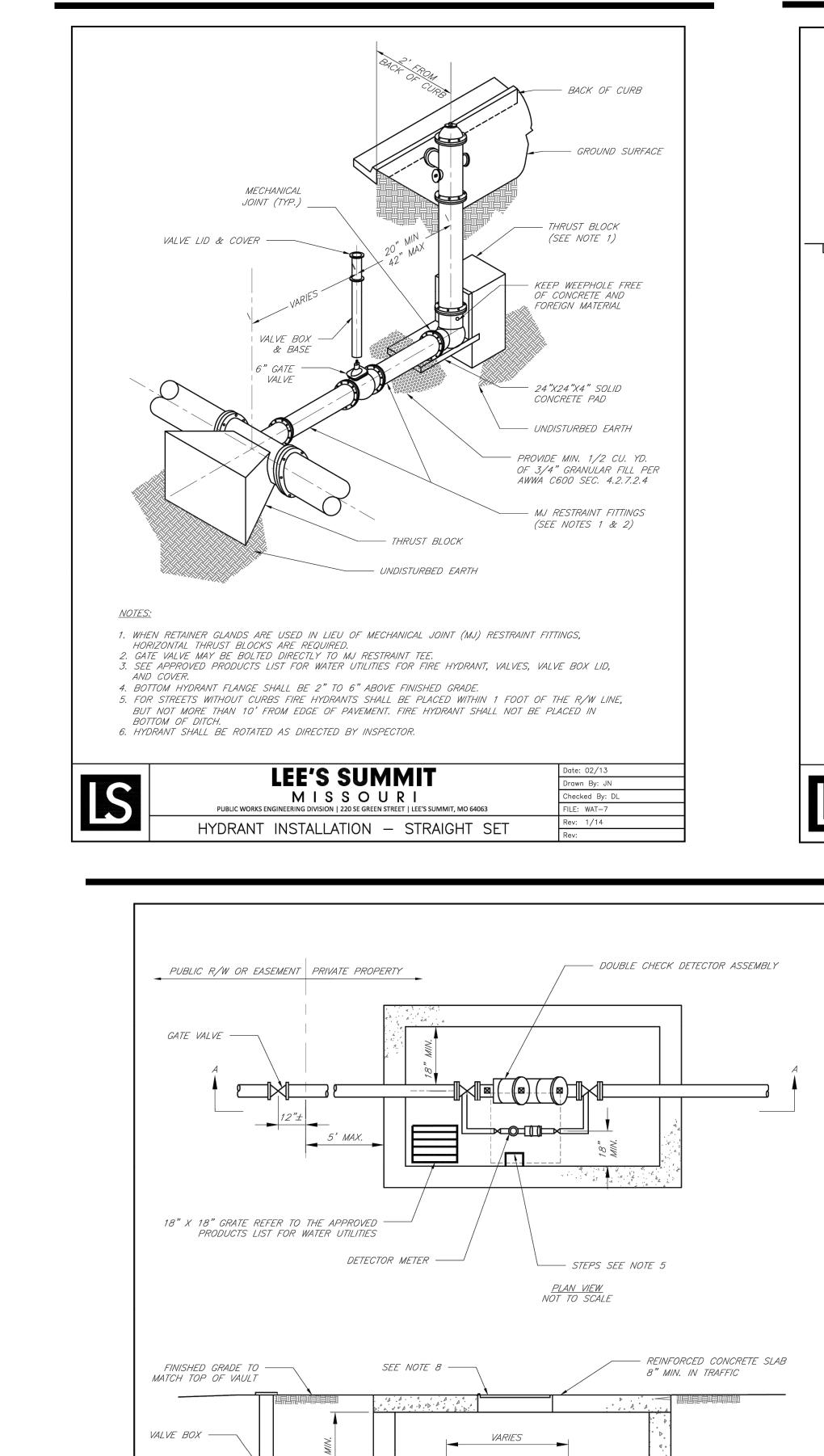
200 Not to Scale





Curb Inlet 305 Not to Scale





GATE VALVE ------

GATE VALVE (TYP.)

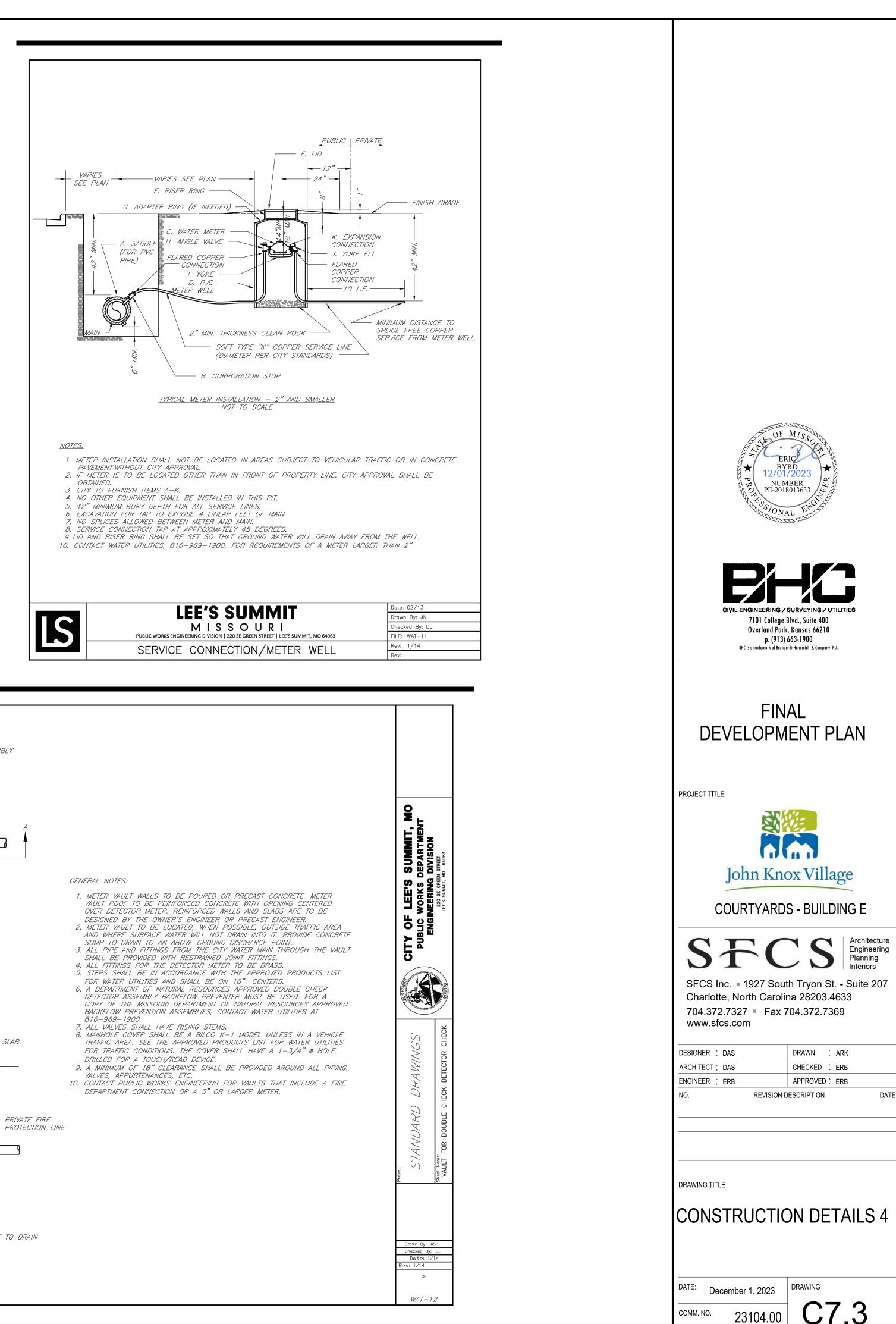
CONCRETE SUMP DRAIN -AS REQUIRED BY SITE

CONCRETE BLOCKS FOR METER SUPPORT -----

'MIN.

* AY . 4

LEE'S SUMMIT	Date: 02/13
LEE 3 JUIVIIVII I	Drawn By: JN
MISSOURI	Checked By: DL
WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-7
ANT INSTALLATION - STRAIGHT SET	Rev: 1/14

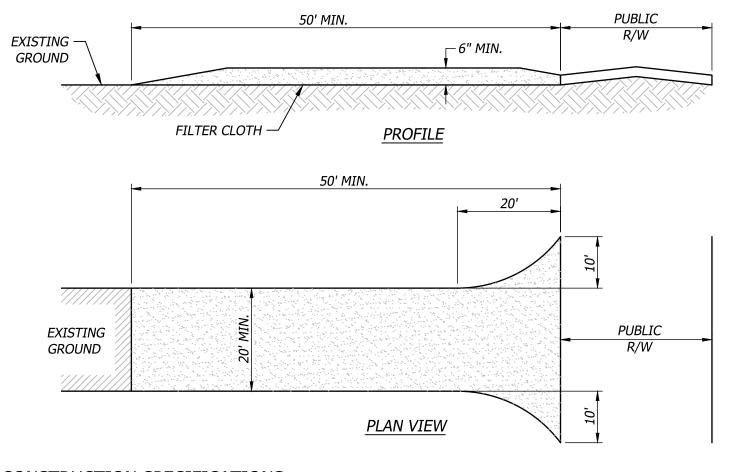


DATE

- REINFORCED CONCRETE FLOOR SLOPE TO DRAIN

<u>SECTION A-A</u> NOT TO SCALE

18" MIN.



CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE (2) INCH STONE, OR RECLAIMED OR RECYCLED EQUIVALENT.

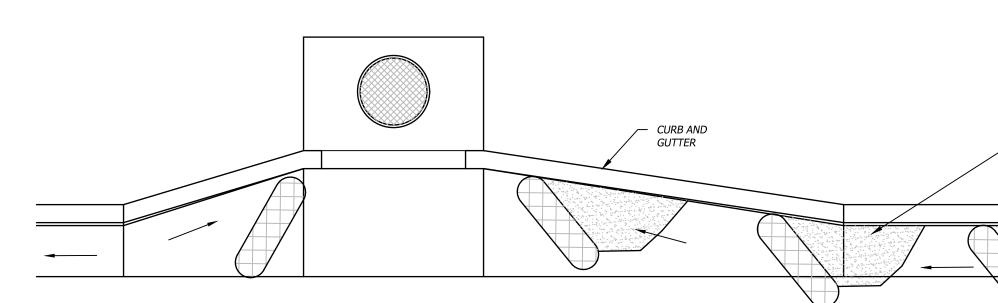
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN (50) FEET. 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

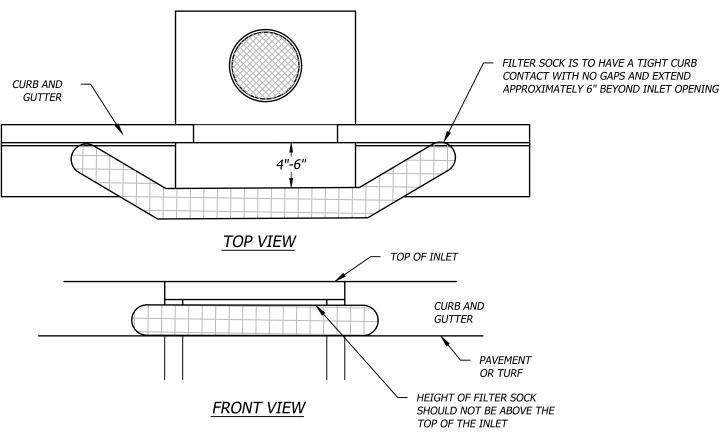
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AS NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

Temporary Construction Entrance 600 Not to Scale

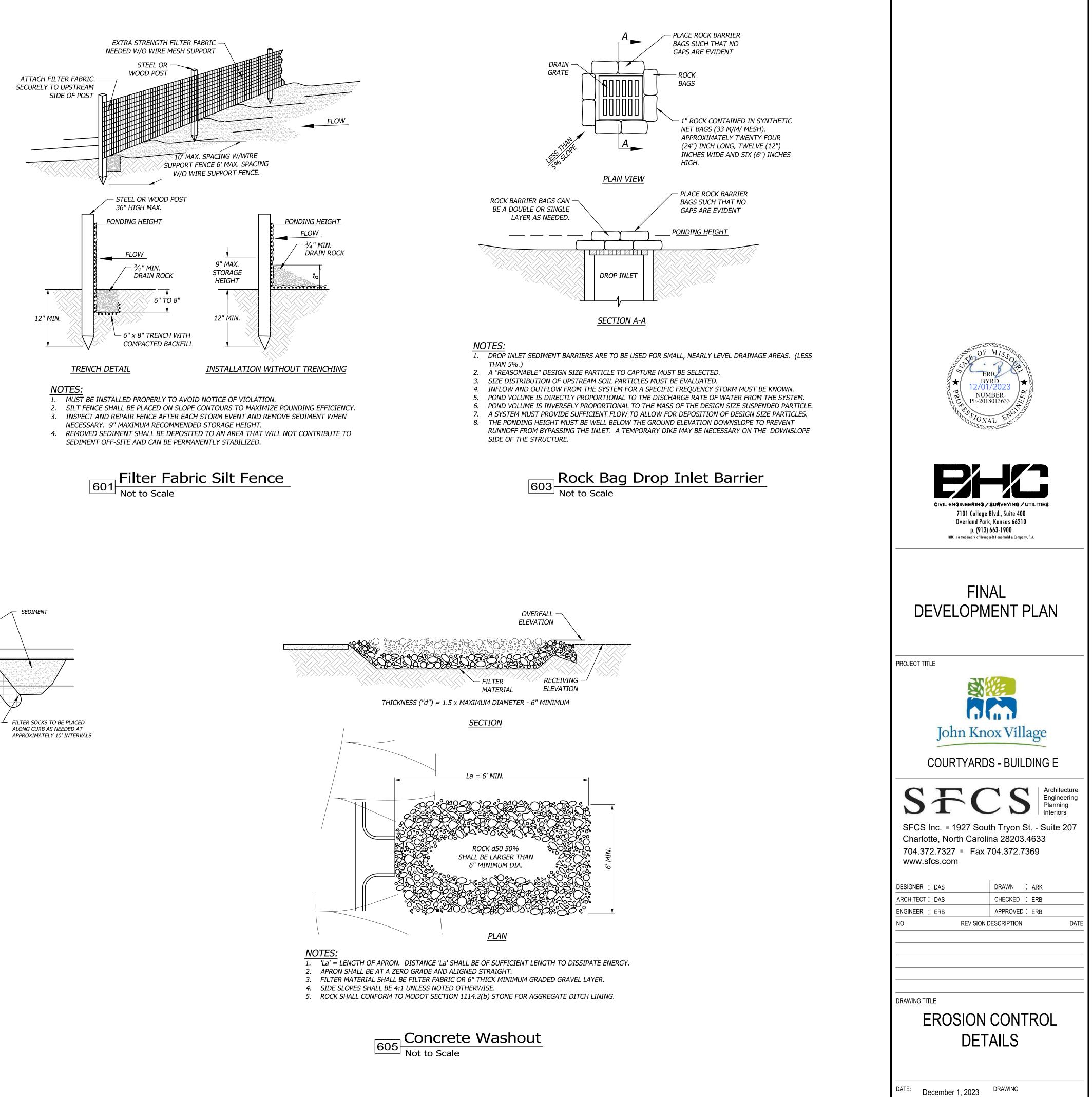


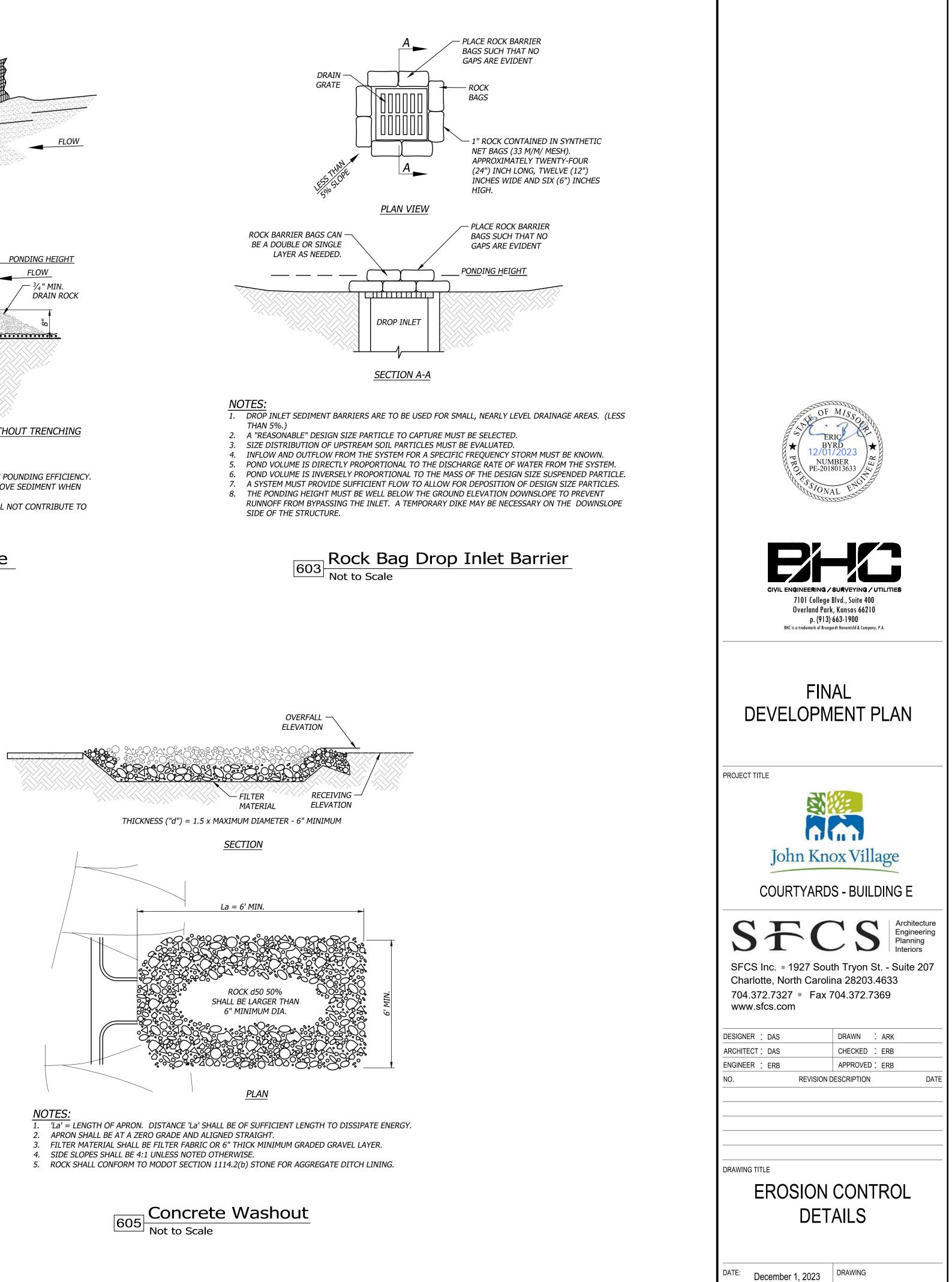
ON GRADE CURB INLET PROTECTION



SUMP INLET SEDIMENT FILTER







23104.00

COMM. NO.

TREE PROTECTION & REMOVAL NOTES	EX	TERIO
GUIDELINES:	Α.	Syste
 Tree Caliper (TrCa) shall be documented at the outset of construction activities. TrCa measurement shall follow standards found in "Timber Cruising Handbook," chapter 10 produced 		1. F
by the U.S. Forest Service.		۲ 2. 1
2. Tree Protection Zone (TPZ) is to be calculated and clearly marked around each Existing Trees to		2. (
Remain (ExTR) prior to construction. The TPZ is 1.5 feet away in radial distance from the tree		3. I
trunk for every inch in Tree Caliper. (example: 28" TrCa x 1.5 = 42' TPZ) 3. Within the TPZ, critical areas such as flood plains and steep slopes should be left in their		ł
pre-construction condition.		е 4. [
4. Tree protection & preservation provides proactive management of ExTR throughout		5. F
construction and other activities that may adversely affect ExTR and to manage and minimize		6. E
damage from construction practices. Tree maintenance shall be performed only be an ISA		7. F
Certified arborist who is familiar with the practices and hazards of aboriculture and equipment used in such operations.		8. E
5. Out the outset of construction, all trees indicated for removal shall have their trunks marked	В.	a Subm
with bright orange paint on all visible sides.		1. C
TREE PROTECTION MEASURES:		a
 Temporary Fencing: Install temporary fencing around tree protection zones (TPZ) to protect Existing Trees to Remain (ExTR) from construction damage. Maintain temporary fence and 		
remove when construction is complete. Fencing should be the last item removed after		Ł
completion of project. This fencing will be erected at the TPZ for each ExTR. Fencing shall comply		
with 02/L0.2. Fencing will be rigidly supported and maintained during all construction periods at		2. (
the detailed minimum height above grade. 2. Laminated signs stating "No Entry, Tree Protection Area" in both English and Spanish are to be		6
posted at thirty foot (30') intervals or on all four (4) cardinal sideswhichever is greater.		
3. Protect tree root systems from damage caused by runoff or spillage of noxious materials while		
mixing, placing, or storing construction materials.		t
4. Protect root systems from ponding, eroding, or excessive wetting caused by watering		
operations. 6. Do not store construction materials, debris, or excavated material inside tree protection zones.		
7. Do not permit vehicles or foot traffic within TPZs; prevent soil compaction over root systems.		
8. Maintain TPZs free of weeds and trash.	C.	Produ
TREE PRUNING:		1. F
 Trees to remain that are affected by temporary and permanent construction shall be pruned according to current ANSI A300 pruning standards. 	D.	Mata
2. Trees to remain shall be pruned by an ISA Certified arborist to remove dead limbs, to achieve a	U.	Mate 1. A
more uniform appearance, and to keep them in a healthy state throughout construction		v
proceedings.		2. <i>A</i>
EXCAVATION: 1. Do not excavate within tree protection zones, unless otherwise indicated and approved. Before		
excavation, pad preparation, or grading for foundations, footings, walls, or trenching, relevant		
trees shall be root pruned 1 foot outside the tree protection zone as described below.		
2. Where excavation for new construction is required within tree protection zones and approved,		3. <i>A</i>
hand prune or utilize root pruning techniques described below prior to excavation. 3. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary		r
earth cover or pack with organic material and wrap with burlap. Water and maintain in a moist		r
condition. Temporarily support and protect roots from damage until they are permanently		S
relocated and covered with soil.		V
Where utility trenches are required near tree protection zones, tunnel under or around roots by drilling, auger boring, pipe jacking, or digging by hand around individual roots to mitigate		4. 1
damage to the root system and tree. A Supersonic Air tool (air spade) can also be used safely to		t
open trenches without severing roots. See 03/L0.2.		r r
5. Root Pruning: where required and approved, shall be done mechanically with a root pruning	Ε.	Speci
machine, vibratory plow, or with a narrow trencher with sharp blades. Once a trench is opened		1. E
up, all exposed roots will be hand pruned to provide clean-cut ends. Do not cut main lateral roots or buttress roots; cut only smaller roots that interfere with installation of utilities. Cut		2. A
roots with sharp pruning instruments; do not break or pull with backhoe or similar equipment.		Z. F
DAMAGE MITIGATION AND REPLACEMENT:		t
1. Promptly repair trees damaged by construction operations within 24 hours. Treat damaged		3. F
trunks, limbs, and roots according to arborist's written instructions. 2. Remove and replace trees indicated to remain that die or are damaged during construction	F.	i Prepa
operations that the arborist determines are incapable of restoring to normal growth pattern.	1.	1. l
3. Provide new trees of caliper size and species selected by owner when damaged trees are		t
required to be replaced. Plant and maintain new trees as specified.		S
 Aerate surface soil, compacted during construction, 10 feet beyond the drip line and no closer than 36 inches to the tree trunk using vertical mulching techniques or radial aeration techniques 	G	r Inctal
as instructed by Landscape Architect.	G.	Instal
DISPOSAL OF WASTE MATERIALS:		r
 Remove excess excavated material and displaced tree's from owner's property and dispose according to City guidelines 		t
according to City guidelines. TREE REPLACEMENT:		(
1. In the event that a tree or trees designated for preservation are severely damaged, destroyed or		r
removed, they shall be replaced upon notice by the Landscape Architect at the rates agreed		Ċ
upon.		A
		E
		2. E
		c
	Н.	Quali
		1. \ C
		3

OR IRRIGATION SYSTEM SPECIFICATION

em Design and Performance Requirements

Provide an automatic, electrically-and centrally-controlled irrigation system for all new planting areas, unless otherwise directed by Owner's Representative.

The irrigation system should be designed to provide complete coverage and prevent overspray on paving and adjacent structures.

Irrigation Contractor must provide an irrigation design for the irrigation lines, sprinkler heads, and drip emitters. The irrigation designer must determine and document the existing water pressure and flow available at each hookup location.

Drip systems are encouraged in planting beds.

Pop-up type sprinkler heads are required.

Base sprinkler selection and spacing on a wind velocity of 10 mph.

Provide a soil moisture sensor for all systems.

Before starting construction, submit a design drawing to Landscape Architect for review and approval.

nittals: Submit the following design and construction documents to Landscape Architect. Design Documents

Provide record drawings showing the location and type of all lines, heads, and valves.
 Use the site landscape drawing background as a base drawing to complete the record drawings. In addition, provide a reduced plan set to be left at the irrigation controller.

b. Before starting construction, Irrigation Contractor must submit a list of irrigation systems designed by their irrigation designer over the last five years.

Construction Documents

. Before starting construction, submit:

• A list of materials

- Manufacturer specifications and installation procedures
- Flow and test reports

. Provide the following operation and maintenance documentation:

• A watering log (left at the irrigation controller)

• A list of the closed suppliers for all heads, valves, and the irrigation system controller

• Two copies of an operational manual (submit upon project completion) uct Standards

Provide Owner's Representative with a product guarantee for the valves, heads, and drip lines used on the project.

rials

All exterior irrigation pipe and fittings must be Class 200-DR 21 polyvinyl chloride (PVC) water pipe, extruded from virgin parent material, that conform to ASTM 2241 standards. All sprinkler heads must be:

- Industrial-grade
- Full or adjustable, part-circle rotary pop-up, with a single or double nozzle
- Driven by a hydraulic turbine-type motor or oscillating impact-type drive
- Hydraulic valve-in-head model, normally closed

Automatic remote control valves must be electric solenoid-type, with globe screwed patterns, using 24 VAC, 60 Hz power with a running current of 2 W. The valve solenoids must be completely epoxy-encapsulated for positive waterproofing and must include a stainless steel shunt band. The valves must open and close slowly (in not less than 5 seconds) by means of a potential fluid resistor to avoid damage or surge pressures. All wiring in PVC conduits.

The automatic controller must be capable of 14-day programmability, with infinite timing from 0 to 60 seconds on each station, and no time lag between stations. The controller must be UL-listed, with a plug-in transformer using 115 VAC to 24 V circuit breaker protection. The cabinet must be lockable and waterproof.

ial Requirements

Booster pumps may be required when the existing water pressure and flow will not operate the irrigation system properly.

All irrigation systems must have a water meter from the Lee's Summit, Missouri, installed on the water service line inside the building. The purchase of the meter must be part of the Irrigation Contractor's bid.

Provide an air connection (for blowing out the system) and a backflow preventer on all irrigation systems.

aration

If existing water to a building will be shut down to provide water for the irrigation system, the Irrigation Contractor, in conjunction with the Owner's Representative, must prepare a shutdown procedure document before starting construction that outlines scheduling and notification requirements.

llation Guidelines

Where possible, provide a uniform pipe bedding of suitable on-site material. If suitable material is not available, backfill the trench with sand. Using a material similar to the bedding, backfill the entire trench width evenly in 6" lifts to 6" above the top of the pipe. Compact the lifts to at least a 95% Standard Proctor density, meeting ASTM D1556 standards at optimum moisture (or as recommended by the soils engineer). Backfill the remaining trench in lifts not to exceed 12" up to the sub-grade height for the surface condition encountered. Compact the lifts to a 95% Standard Proctor density, meeting ASTM D1556 standards at optimum moisture (or as recommended by the soils engineer). Backfill the remaining trench in lifts not to exceed 12" up to the sub-grade height for the surface condition encountered. Compact the lifts to a 95% Standard Proctor density, meeting ASTM D1556 standards at optimum moisture (or as recommended by the soils engineer). Backfilling and compacting above the subgrade must be determined by the soils engineer or by the recommended paving design for the project.

Bury pressure irrigation lines at a minimum depth of 18". Bury non-pressure lines at a minimum depth of 12".

ity Control

Work on exterior irrigation systems must conform to the following quality control standards.

a. Testing Laboratory: Owner's Representative and/or General Contractor will retain the services of a qualified, independent testing laboratory to perform soil compaction tests, as directed, during construction.

b. Testing Methodology a completed.

 Cleaning and Adjusting
 With the participation of Owner's Representative personnel, the system must be operated before acceptance by Owner's Representative.

Startup and Training

 Irrigation Contractor must operate the irrigation system with Owner's Representative maintenance staff present to observe its operation.
 Irrigation Contractor must adjust the system over a preventative maintenance period of the system over a preventative maintenance period over a preventative maintenance period over a period

 Irrigation Contractor must adjust the system over a preventative maintenance period of 90 days and guarantee the system for one year upon acceptance of the system by Owner's Representative.

LANDSCAPE SET ABBREVIATIONS

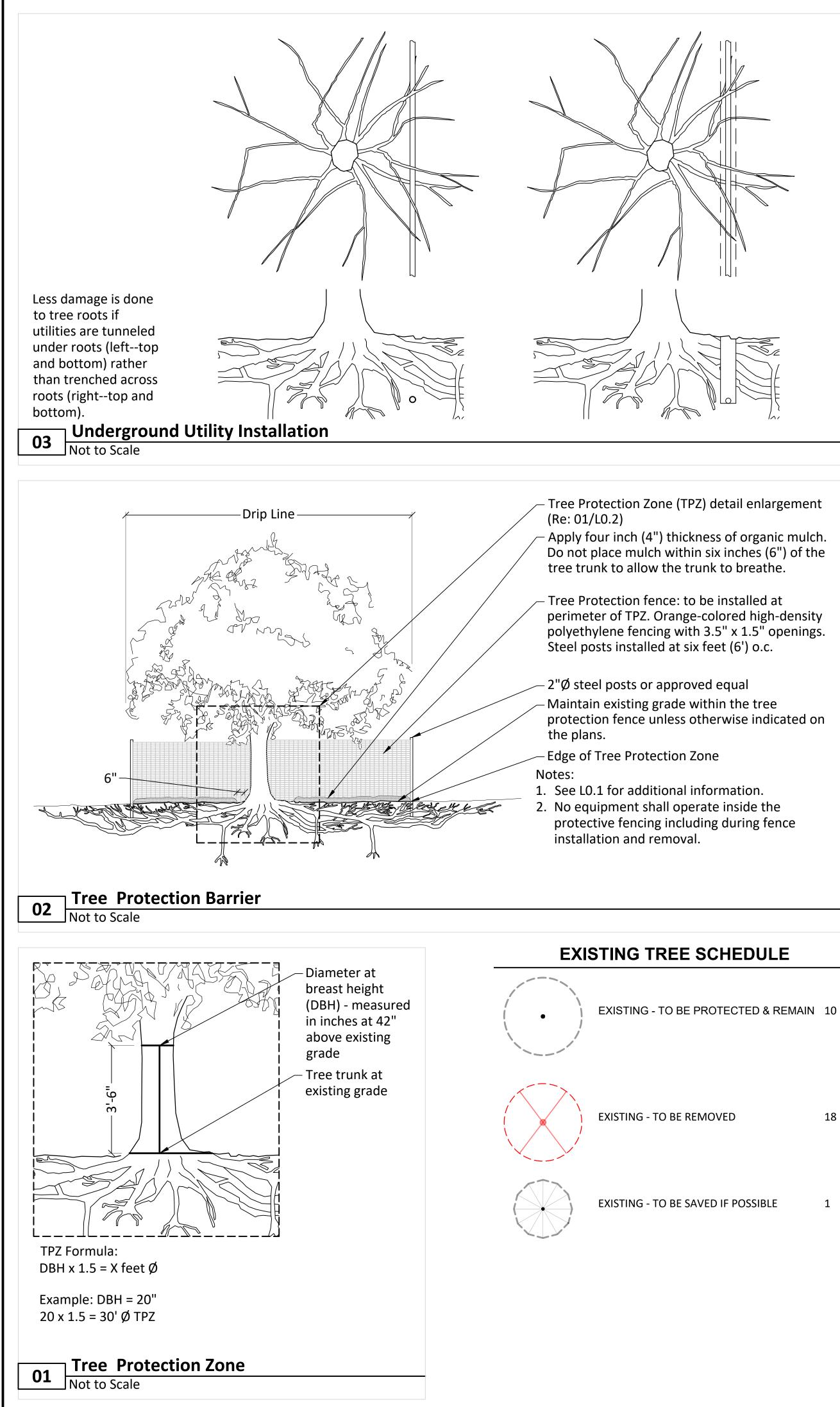
L.O.D. P.O.B.	Limits of Disturbance Point of Beginning	VAC V	Volts Alternating Current Volts
F.O.D.	rome of beginning	v Hz	Hertz (standard unit of frequency)
TPZ	Tree Protection Zone	W	Watts
TrCa	Tree Caliper / Stem Diameter	PVC	Polyvinyl Chloride
ExTR	Existing Tree(s) to Remain		
			Inches
O.C.	On Center	I	Feet
Clr.	Clear (Face to Face)	Ø	Diameter
TYP.	Typical	o	Degrees
SIM.	Similar	ፍ	Centerline
EQ.	Equal	@	At
APPROX.	Approximate		
QTY.	Quantity		
w/	With		
SPD	Standard Proctor Density		
	-		

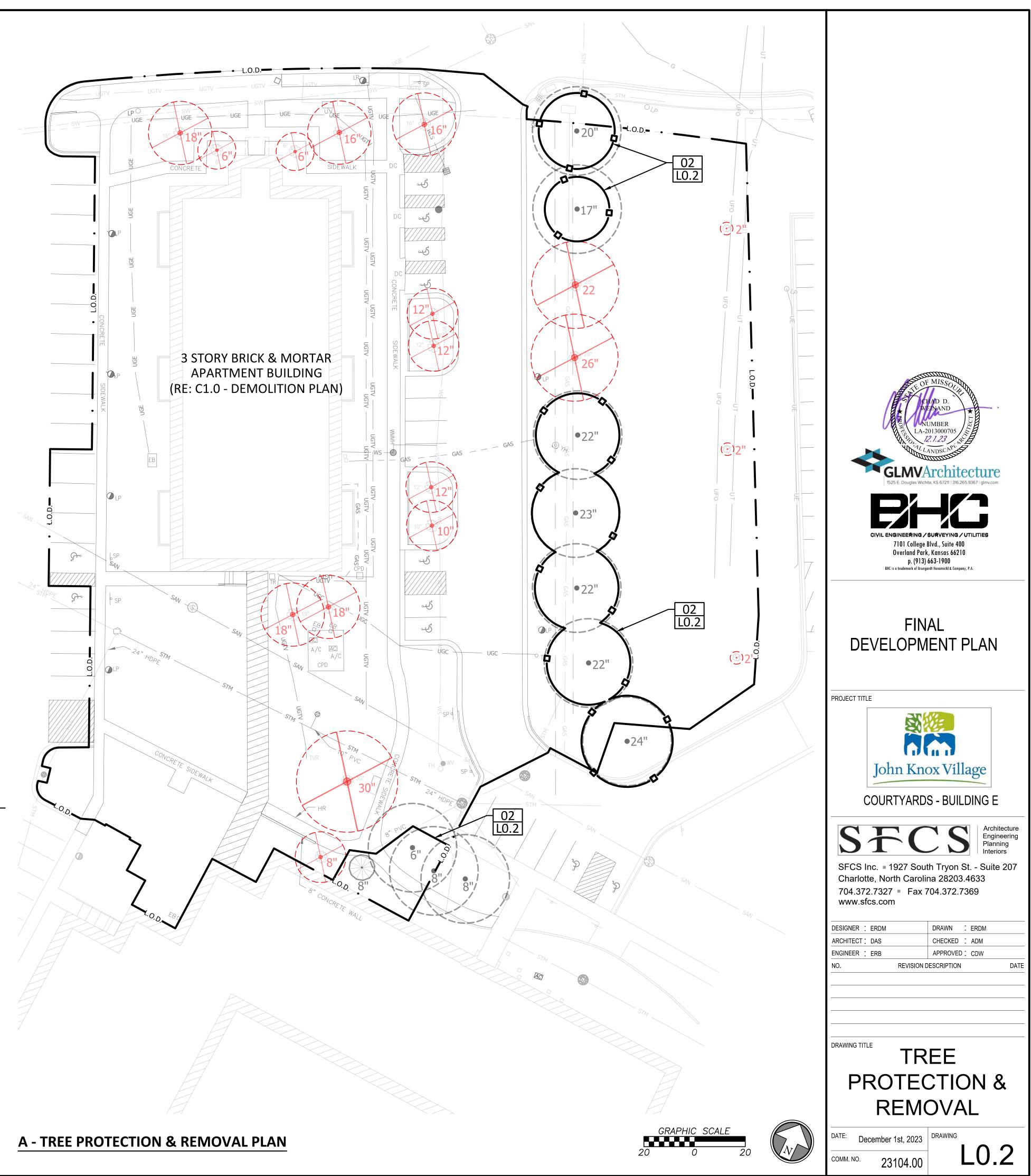
b. Testing Methodology and Extent: Conduct a coverage test when the sprinkler system is



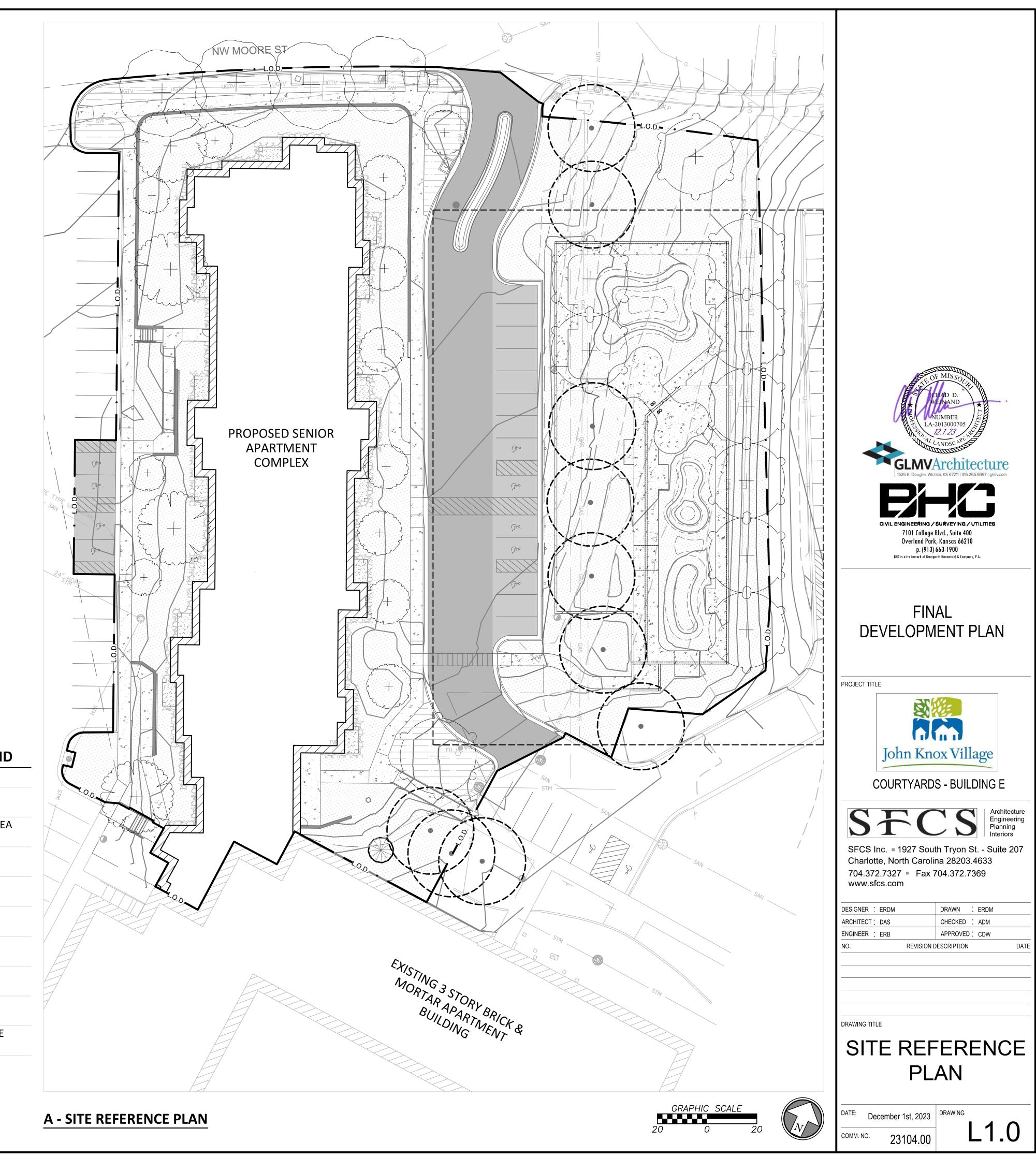
LINETYPE LEGEND

LIMIT OF DISTURBANCE
—— CONCRETE CONTROL JOINT
 — CONCRETE EXPANSION JOINT
 TREE PROTECTION FENCING
 — DEMO TREE
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
 —— EXISTING MAJOR CONTOUR
 — EXISTING MINOR CONTOUR





SYMBOL	DESCRIPT
L .O.D. 	LIMITS
	DOG PA (RE: L1.
	PLANTI (RE: L2.
	MAINTE (RE: 03/
4	CONCRI
A A A	CONCRI (RE: CIV
	PARKIN (RE: CIV
	ROADW (RE: CIV
	PROPOS (RE: ARC
	GROUN (RE: ARG



SITE REFERENCE LEGEND

PTION

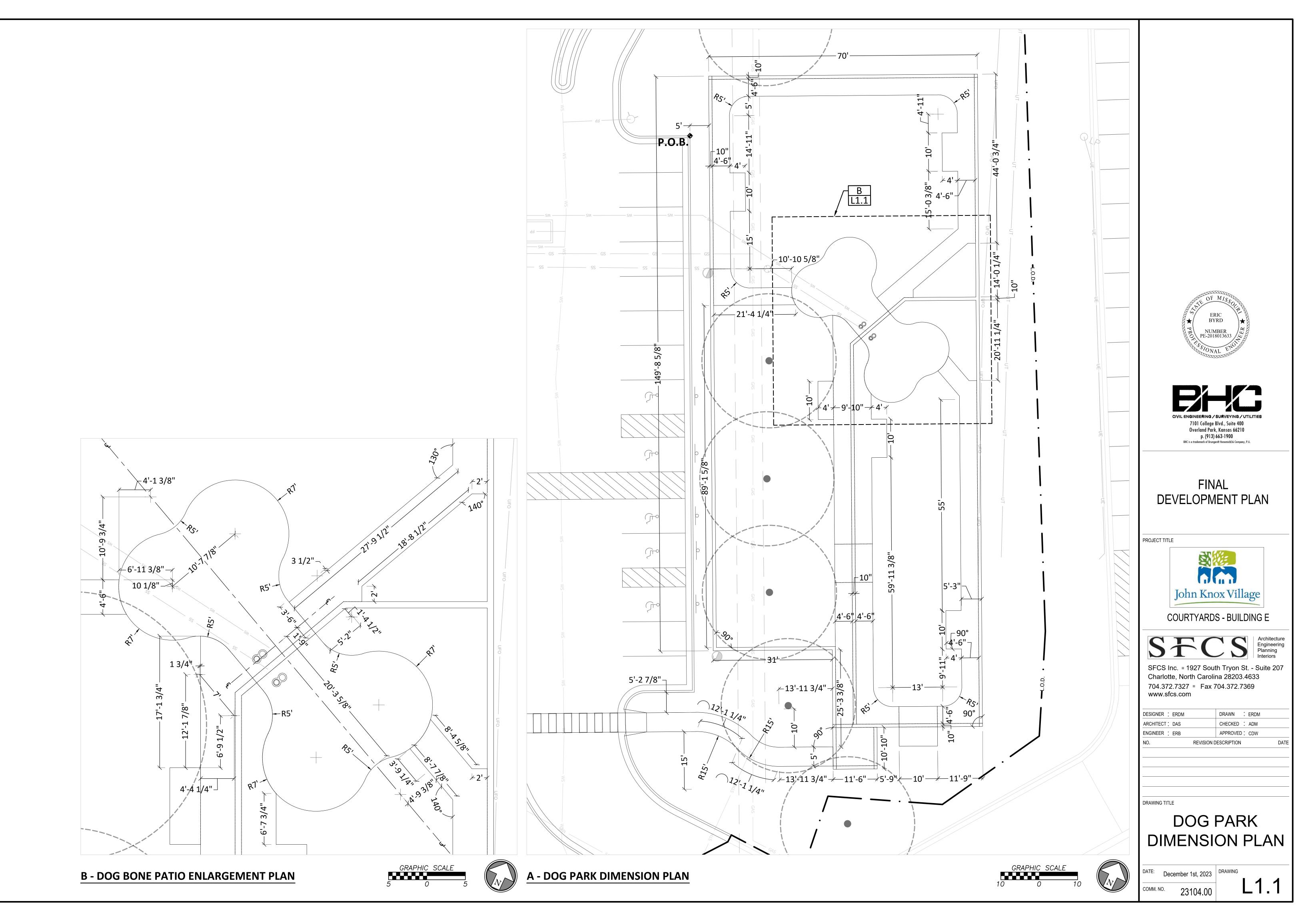
S OF DISTURBANCE

PARK ENLARGEMENT AREA 1.1, L1.2, L1.3, L1.4) TING AREA 2.1, L2.2, L2.3) TENANCE STRIP 3/L3.1)

RETE PAVING

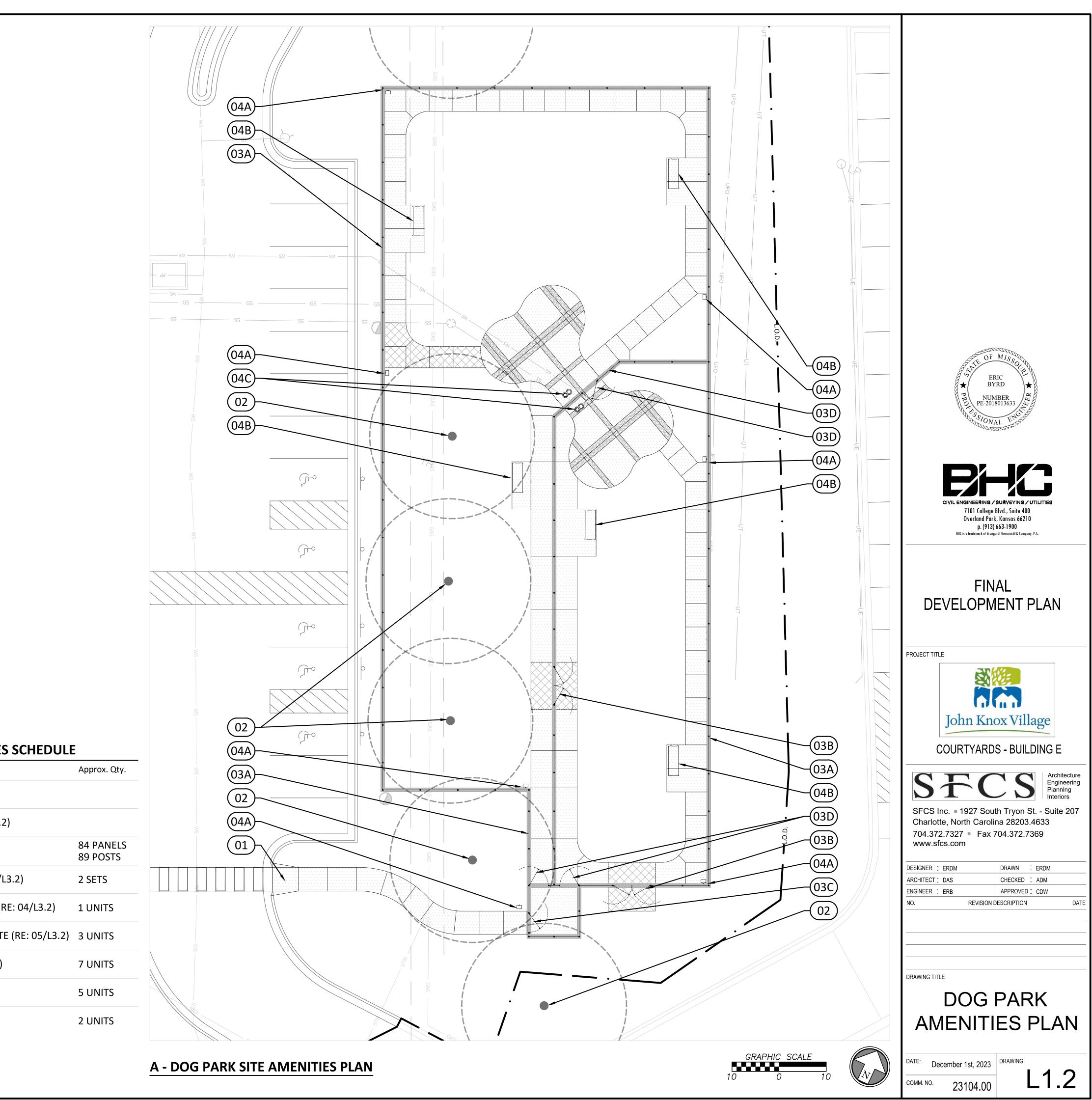
RETE PAVING VIL) ١G VIL) NAY VIL) OSED BUILDING OUTLINE RCH) ND LEVEL PATIOS

RCH)



DOG PARK AMENITITIES SCHEDULE

C	
Symbol	Description
01	ADA CURB RAMP (RE: CIVIL)
02	EXISTING TREE TO REMAIN (RE: L0.2)
(03A)	DOG PARK FENCING (RE: L1.4)
(03B)	DOG PARK SERVICE GATES (RE: 03/L3.
(03C)	DOG PARK PRIMARY ENTRY GATE (RE
(03D)	DOG PARK SECONDARY ENTRY GATE (
(04A)	DOG WASTE STATION (RE: 01/L3.1)
(04B)	6' PARK BENCH (RE: 02/L3.2)
(04C)	WATER FOUNTAIN (RE: 03/L3.3)
	 02 03A 03B 03C 03D 04A

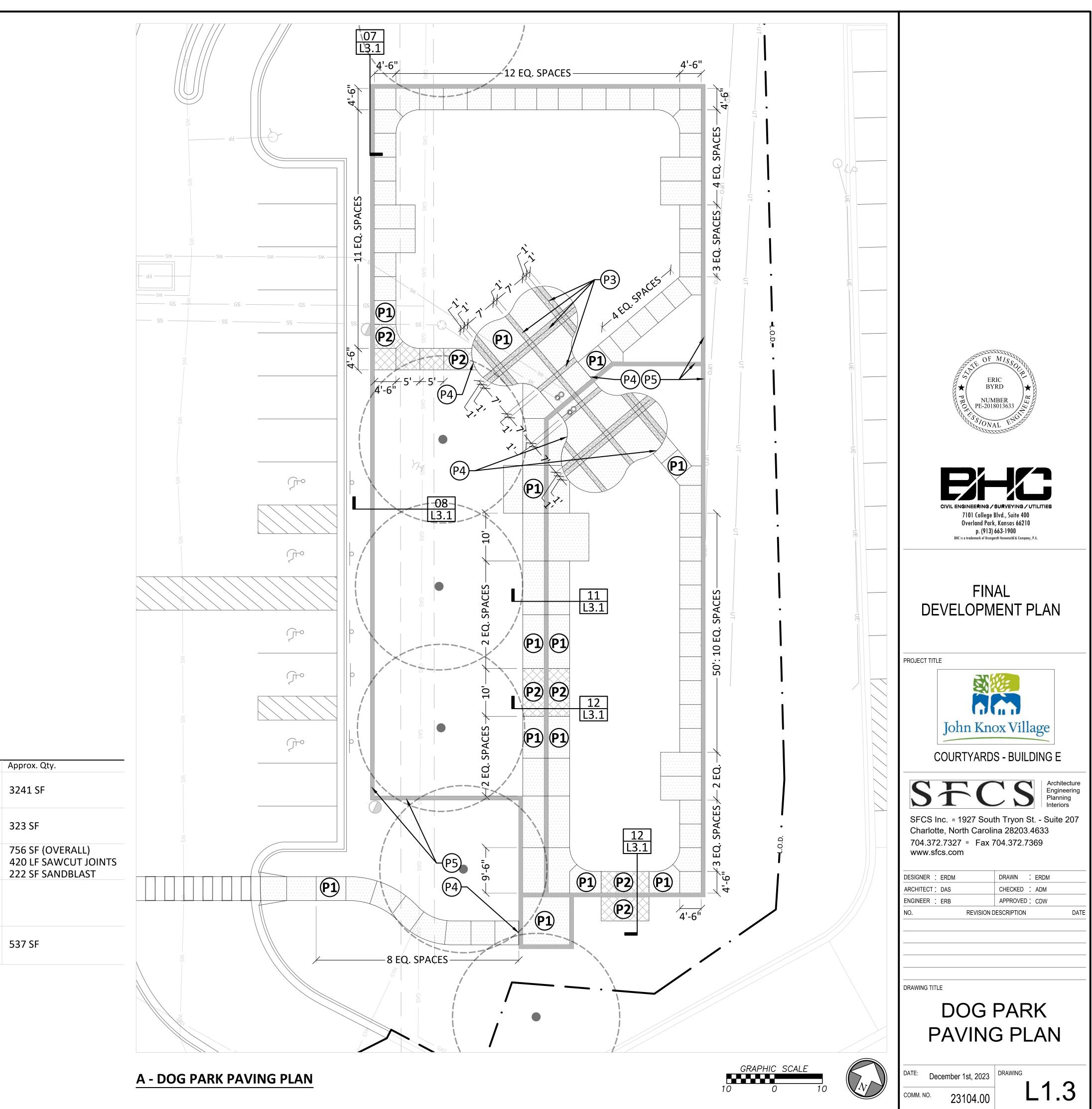


PAVING SCHEDULE

			PAVI	
Symbol	Туре	Color / Product	Finish / Size	Joints / Additional Notes
P1	LIGHT-DUTY CONCRETE	KCMMB 4K; STANDARD GRAY	MEDIUM BROOM FINISH	TOOLED CONTROL JOINTS SPACED AS SHOWN RE: 04/L3.1
P2	HEAVY DUTY CONCRETE	KCMMB 4K; STANDARD GRAY	MEDIUM BROOM FINISH	TOOLED CONTROL JOINTS SPACED AS SHOWN RE: 04/L3.1
P3	"DOG BONE" PATIO STRIPES	KCMMB 4K; STANDARD GRAY	MEDIUM SANDBLAST	SAWCUT CONTROL JOINTS SPACED AS SHOWN RE: 04/L3.1
P4	ISOLATION JOINT	CLOSED-CELL POLYETHYLENE FLAT BACKER ROD		WHERE INDICATED ON PLAN AND PER DETAILS; ADD AT ALL VERTICAL SURFACES RE: 05 & 06/L3.1
P5	10" CONCRETE MOW STRIP UNDER FENCE	KCMMB 4K; STANDARD GRAY	MEDIUM BROOM FINISH	ISOLATION JOINTS WHERE INDICATED PER DETAILS 11 & 12/L3.1

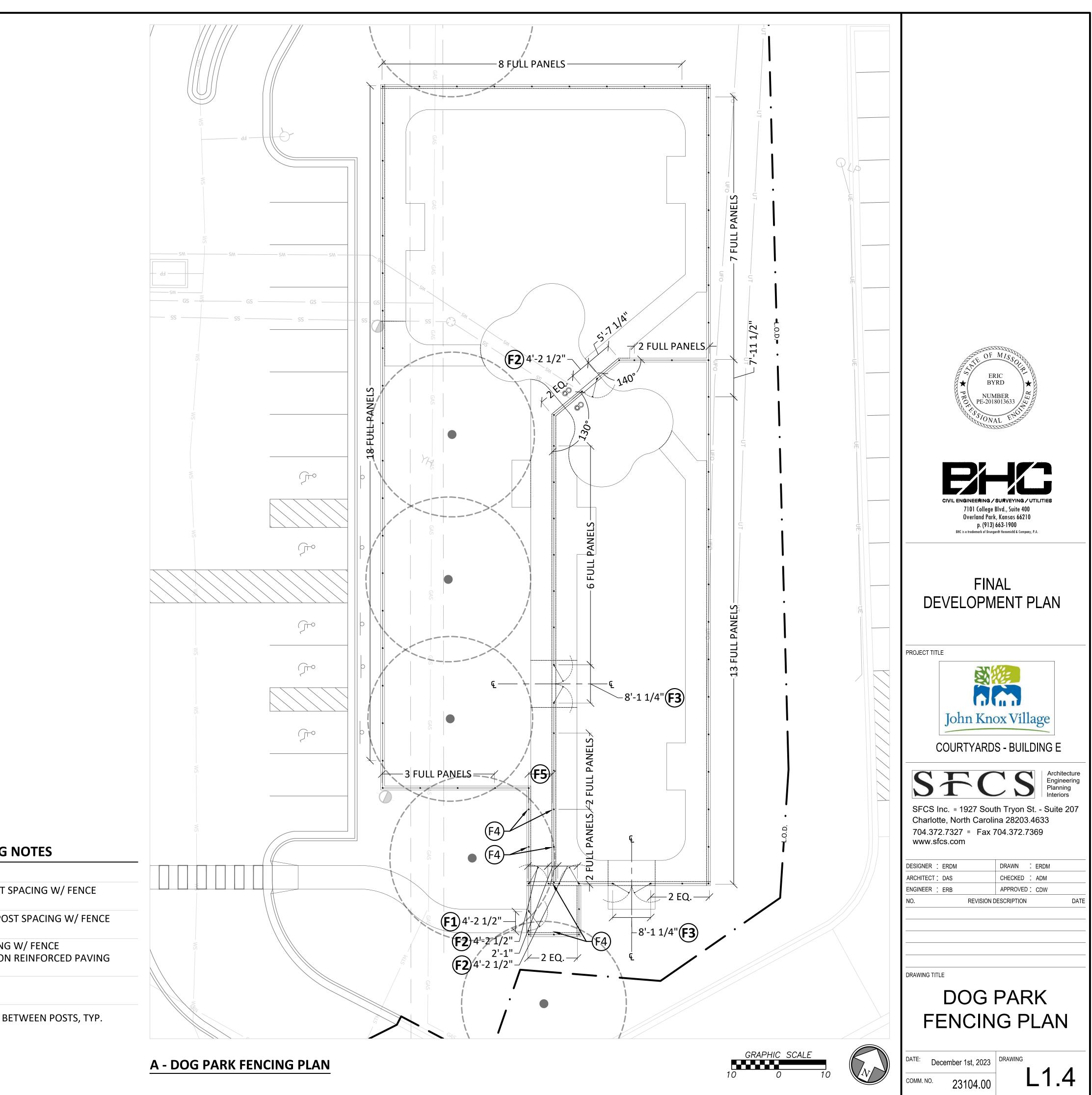
NOTES:

Clay soils should be pre-wet before compaction and laying cementitious mixture.
 Concrete pours should end at joint locations. All construction joint locations to become expansion joints.
 Place expansion joints whever the sidewalk abuts another rigid structure.
 Concrete mix shall use type and kind for current weather conditions and shall be protected while curing as required. (RE: Civil)



DOG PARK FENCING NOTES

Symbol	Description
(F1)	VERIFY PRIMARY ENTRY GATE POST S MANUFACTURER
F2	VERIFY SECONDARY ENTRY GATE POS MANUFACTURER
F3	VERIFY SERVICE GATE POST SPACING MANUFACTURER; CENTER FENCE ON AREA
F4	ALIGN POSTS
(F5)	5' MIN. FACE TO FACE CLEARANCE BE

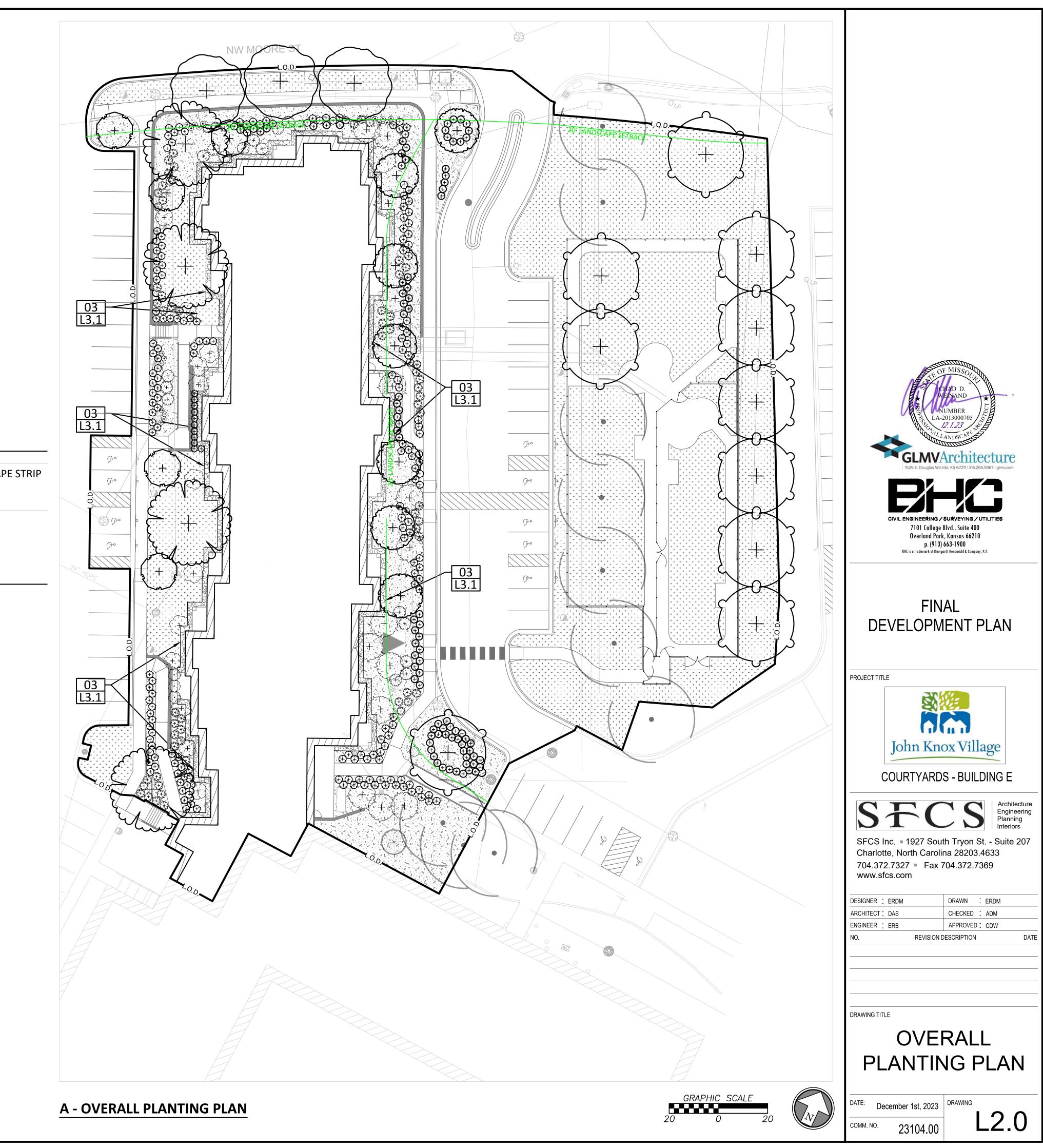


CODE REQUIRED LANDSCAPING

Project Total	Required	Description of Requirement
440 LF	14.67 22	STREET FRONTAGE WITH 2 1 TREE PER 30' 1 SHRUB PER 20'
76533 SF	OPEN YARD AREA 15.31 2 SHRUBS PER 5000 SF	

CODE REQUIRED 20' LANDSCAPE STRIP SCHEDULE
--

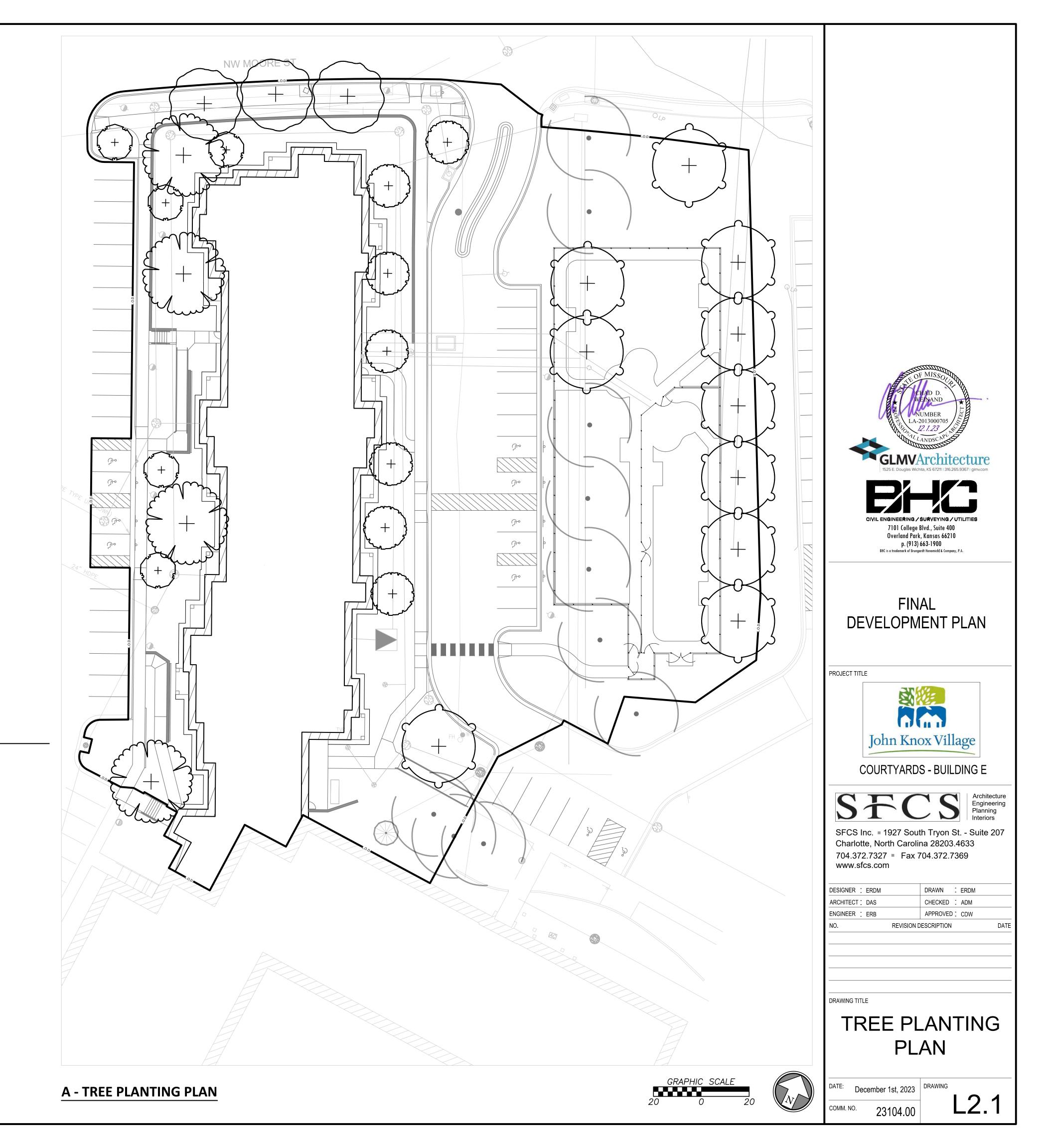
SYMB	OL	QTY	BOTANICAL / COMMON NAME	CONT
DECID				
کم ہ	+	14	Nyssa sylvatica `David Odom` / Afterburner® Tupelo	B & B
	+	2	Quercus muehlenbergii / Chinkapin Oak	B & B
	+	8	Quercus phellos / Willow Oak	B & B
SYMB	BOL	QTY	BOTANICAL / COMMON NAME	SIZE
SHRU	BS			
	<	6	Aronia melanocarpa 'Autumn Magic' / Autumn Magic Black Chokeberry	5 gal
		37	Buxus x 'Green Gem' / Green Gem Boxwood	2 gal
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	21	Callicarpa x 'NCCX2' / Pearl Glam [®] Beautyberry	5 gal
	+	6	Hamamelis x intermedia `Diane` / Diane Witch Hazel	5 gal
		25	Ilex glabra 'Compacta' / Compact Inkberry	5 gal
		76	Itea virginica 'Sprich' / Little Henry Sweetspire	2 gal
GRAS	<u>SES</u>	6	Chasmanthium latifolium `River Mist` / River Mist Variegated Northern Sea Oats	6" pot



1 20' WIDE LANDSCAPE STRIP F OF TOTAL LOT CAL DNT & B 3"Cal

& B 3"Cal & B 3"Cal PLANT HT. tal gal

		TREE SCHEDULE		
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL
DECIDUOUS TREES	5	Acer ginnala `Flame` / Flame Amur Maple	B & B	1.5"Cal
	4	Gymnocladus dioica `Espresso` / Kentucky Coffeetree	B & B	3"Cal
	7	Nyssa sylvatica `David Odom` / Afterburner [®] Tupelo	B & B	3"Cal
	10	Quercus muehlenbergii / Chinkapin Oak	B & B	3"Cal
$\left( + \right)$	3	Quercus phellos / Willow Oak	B & B	3"Cal



<u>SYMBOL</u>	QTY	BOTANICAL / COMMON NAME	<u>SIZE</u>
SHRUBS			
	17	Aronia melanocarpa 'Autumn Magic' / Autumn Magic Black Chokeberry	5 gal
(+)	72	Buxus x 'Green Gem' / Green Gem Boxwood	2 gal
	63	Callicarpa x 'NCCX2' / Pearl Glam® Beautyberry	5 gal
+	8	Calycanthus floridus 'Burgundy Spice' / Burgundy Spice Sweetshrub	5 gal
+	4	Calycanthus floridus 'Michael Lindsey' / Michael Lindsey Sweetshrub	5 gal
	15	Hamamelis x intermedia `Diane` / Diane Witch Hazel	5 gal
(+)	115	Ilex glabra 'Compacta' / Compact Inkberry ILEX glabra Gem Box® is acceptable substitute	5 gal
	11	llex verticillata 'Little Goblin Red' / Little Goblin Red Female Winterberry Plant dwarf male pollinator within 20' of females ILEX verticillata Red Sprite is acceptable substitute	5 gal
	89	Itea virginica 'Sprich' / Little Henry Sweetspire ITEA virginica Fizzy Mizzy® is acceptable substitute	2 gal
· · ·	3	Rhus aromatica / Fragrant Sumac	5 gal
GRASSES			
	10	Chasmanthium latifolium `River Mist` / River Mist Variegated Northern Sea Oats	6" pot
	12	Muhlenbergia capillaris / Pink Muhly Grass	1 gal
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT
SHRUB AREAS	<u>S</u>		
	338	Epimedium `Pink Champagne` / Pink Champagne Barrenwort	1 gal
	108	Iberis sempervirens 'Alexander's White' / White Evergreen Candytuft	1 gal
· · · · · · · · · · · · · · · · · · ·			
	359	Liriope spicata `Silver Dragon` / Silver Dragon Creeping Lilyturf	1 gal
	274 sf	Liriope spicata `Silver Dragon` / Silver Dragon Creeping Lilyturf SHADE PERENNIAL BLEND	_
			1 gal 1 gal
	274 sf	SHADE PERENNIAL BLEND	_
	274 sf 63 63 257 sf	SHADE PERENNIAL BLEND Astilbe x arendsii 'Rheinland' / Rhienland Astilbe	1 gal 1 gal
	274 sf 63 63	SHADE PERENNIAL BLEND Astilbe x arendsii 'Rheinland' / Rhienland Astilbe Hosta x 'June' / June Hosta	1 gal
	274 sf 63 63 257 sf	SHADE PERENNIAL BLEND Astilbe x arendsii 'Rheinland' / Rhienland Astilbe Hosta x 'June' / June Hosta SUN PERENNIAL BLEND	1 gal 1 gal

### SHRUB & PERENNIAL SCHEDULE



50% @ 18" o.c.

50% @ 18" o.c.

50% @ 18" o.c.

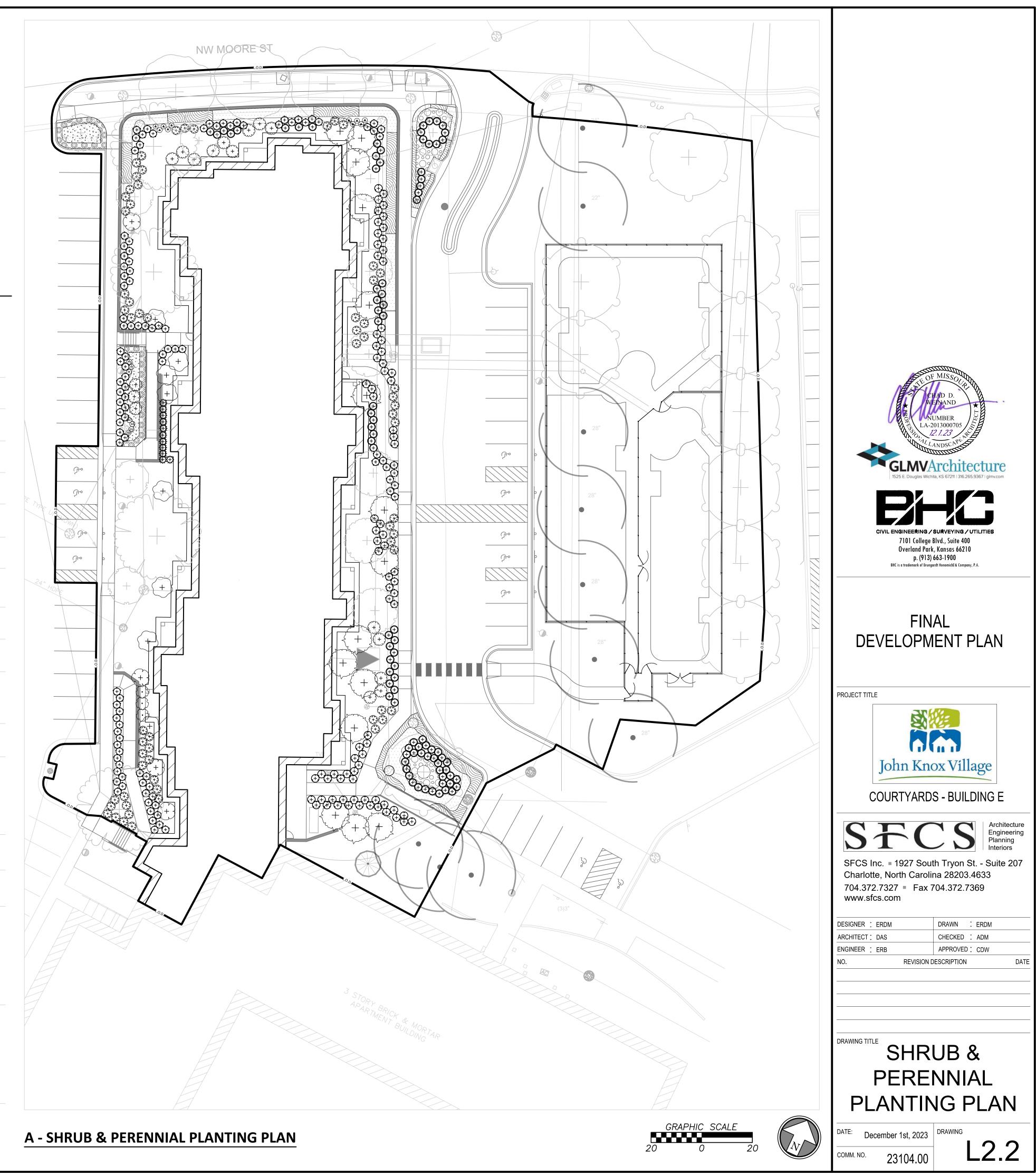
**SPACING** 

18" o.c.

18" o.c.

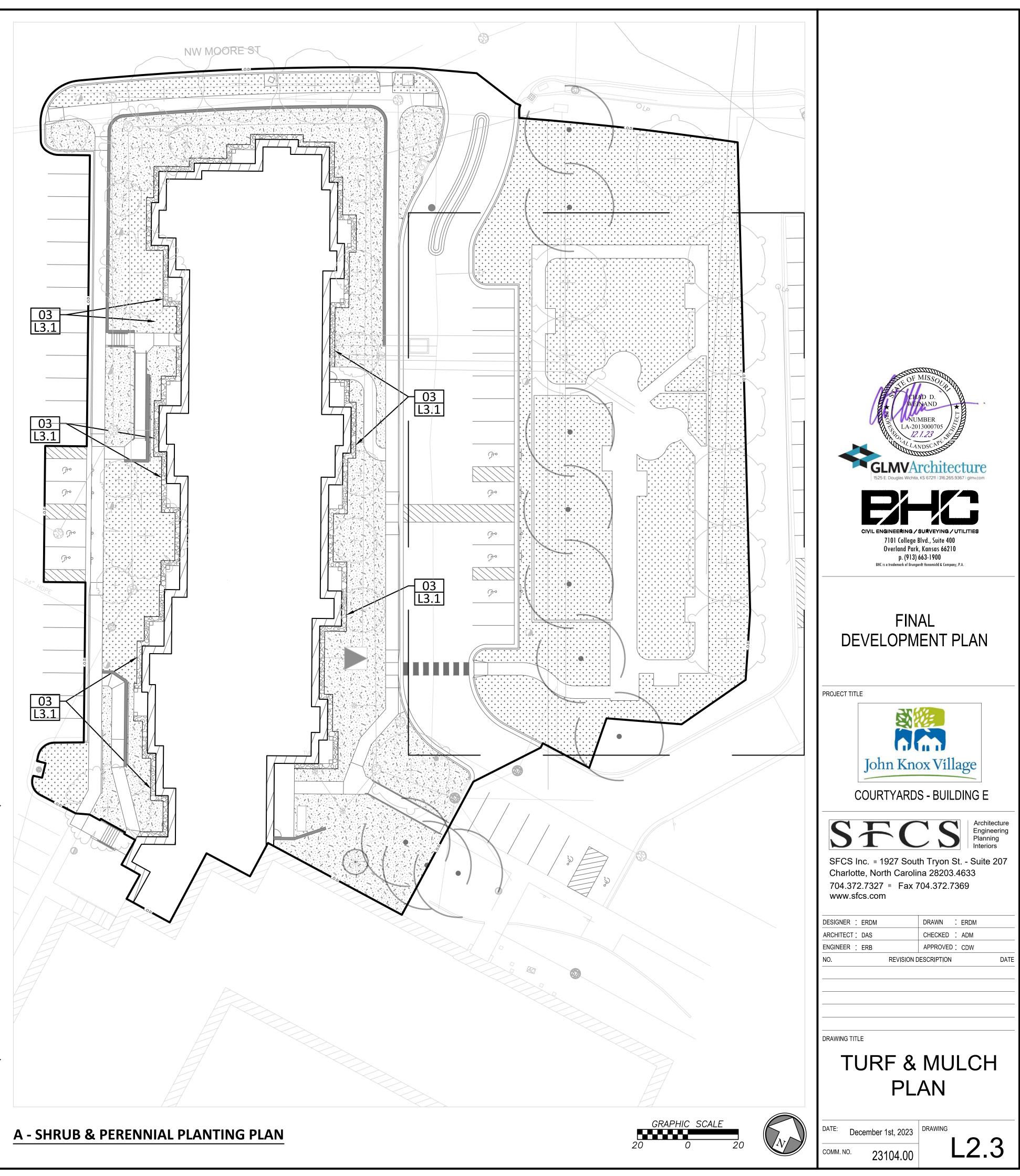
18" o.c.

50% @ 18" o.c.



### **TURF & MULCH SCHEDULE**

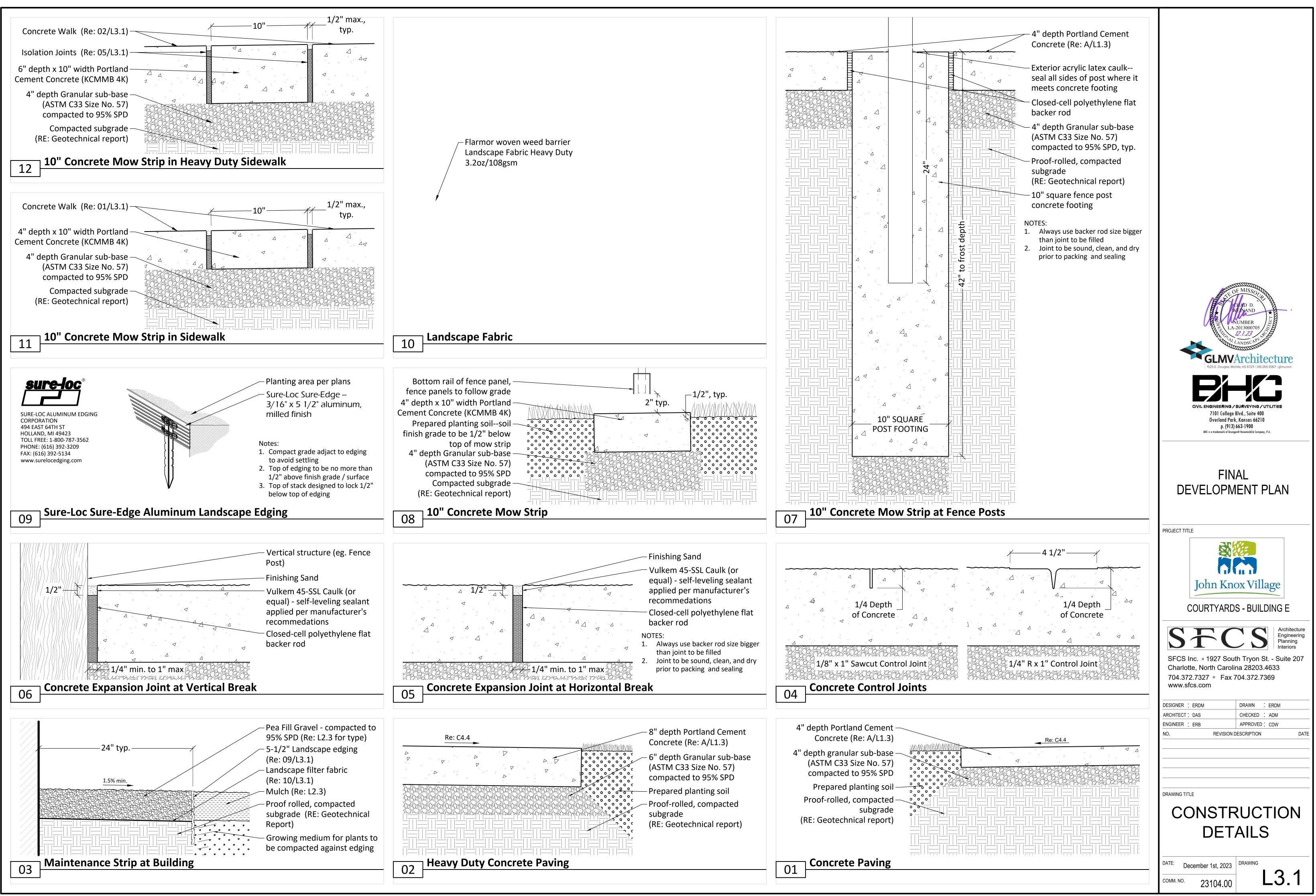
SYMBOL	QTY	BOTANICAL / COMMON NAME
GROUND COV	<u>'ERS</u>	
	10,910 sf	MULCH - 100% NATURAL CEDAR
	1,428 sf	<ul> <li>1/2" PEA FILL GRAVEL MULCH</li> <li>1/2" max aggregate size, cleaned prior to installation on site. Install 3" depth over Landso planting is complete.Bind mulch with PetraMax Mulch Glue Max applied according to ma application rates and instructions.</li> <li>Approximate Yield: 86/sf per ton</li> </ul>
	21,989 sf	TURF SAVER RTF® – RHIZOMATOUS TALL FESCUE Sod shall be RTF (U.S. Patent NO. 6,677,507) as produced by members of the RTF Association. Prior to installation, the contractor shall provide written submittal with verific Producers Association that the selected local grower is licensed to produce and sell RTF In addition, an RTF SOD CERTIFICATE from the Association verifying the authenticity of with each delivery. Deliveries without the certificate will be rejected. No substitutions of

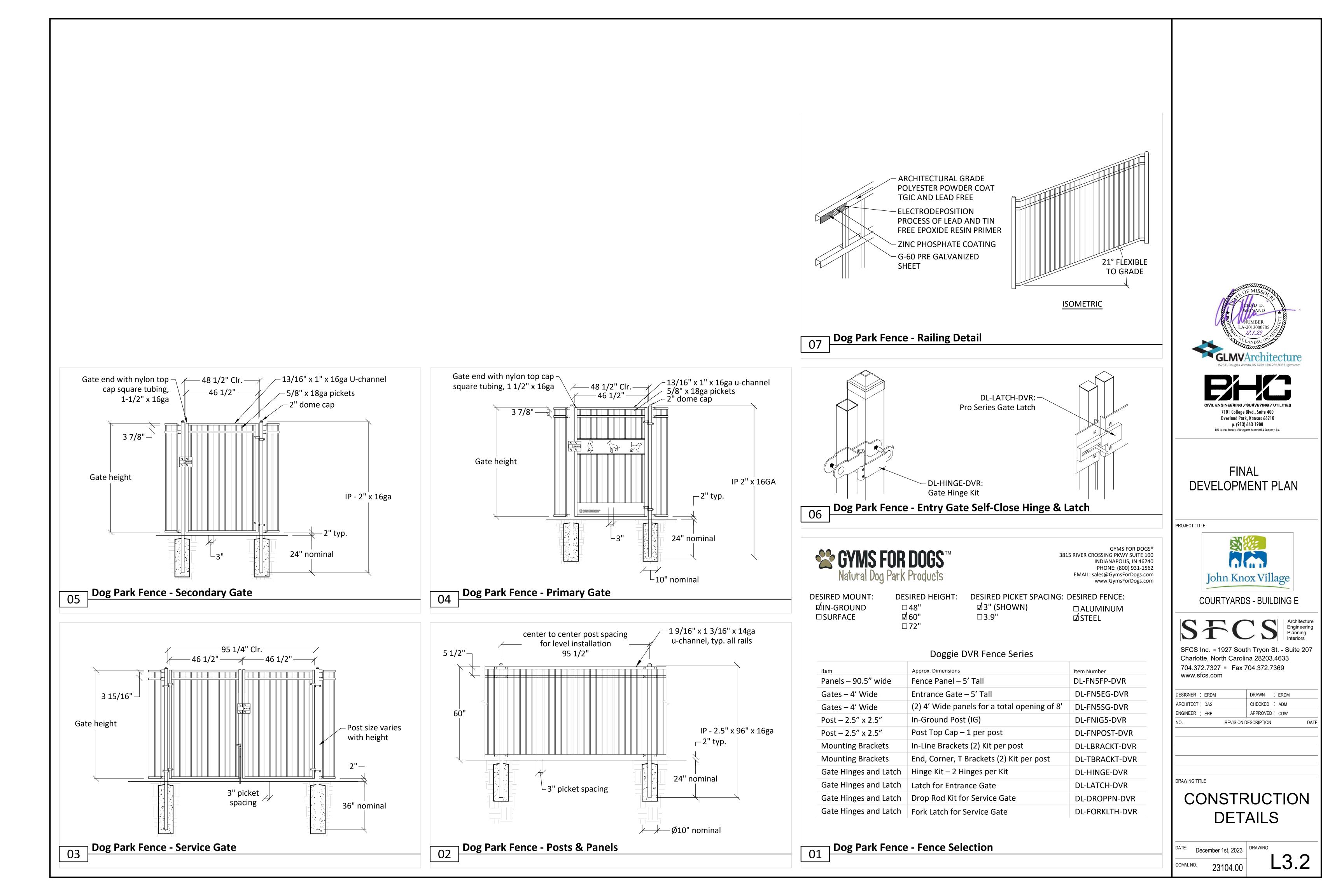


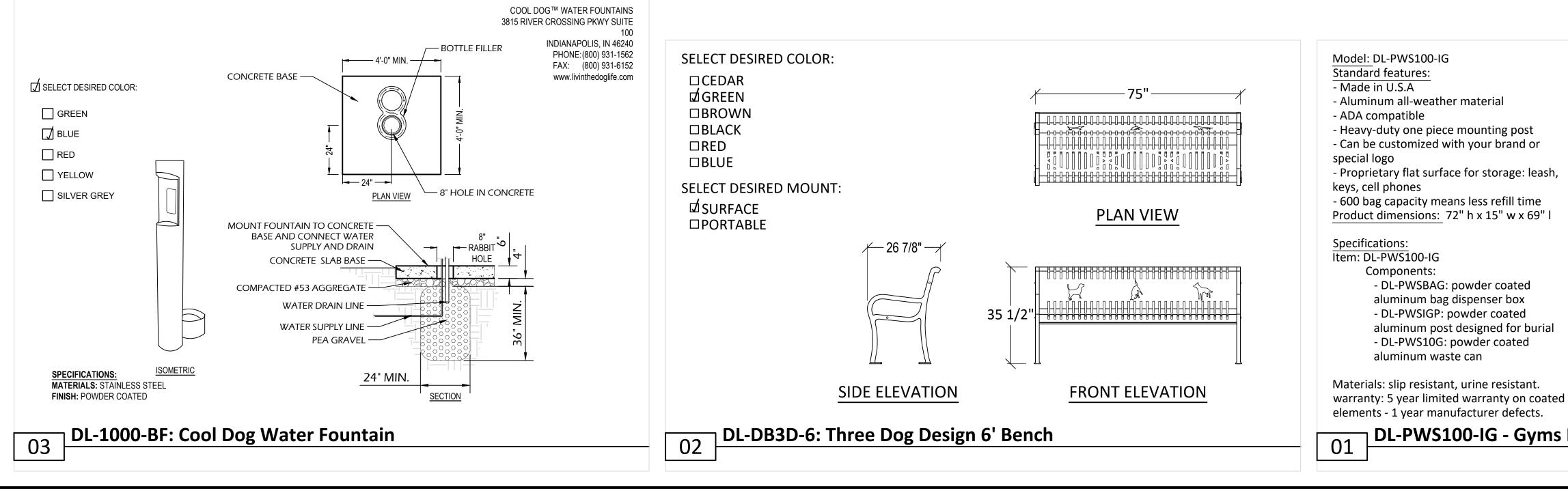
lscape Filter Fabric after nanufacturer`s recommended

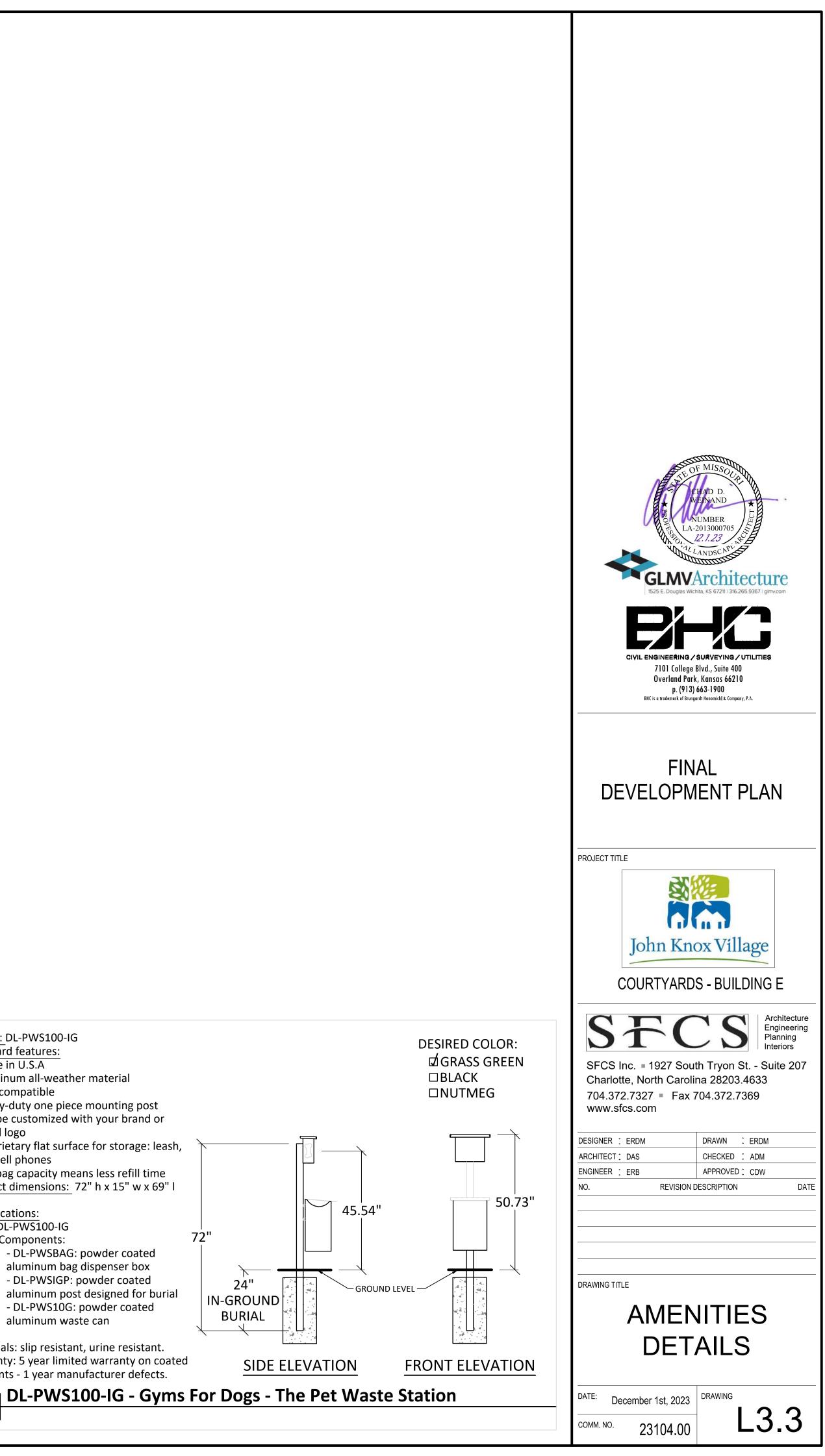
Turf Producers ification from the RTF Turf TF⊡ sod.

y of the sod shall be provided of sod will be accepted.









### **PLANTING NOTES**

- Location of all existing utilities needs to be done before commencing work.
- 2. The planting plan graphically illustrates overall plant massings. Each plant species massing shall be placed in the field to utilize the greatest coverage of ground plane. The following applies for individual plantings:
- A. Creeping groundcover shall be a minimum of 6" from paving edge. B. All trees shall be a minimum of 3 ft. from paving edge.
- C. All plants of the same species shall be equally spaced apart and placed for best aesthetic viewing.
- D. All shrubs shall be a minimum of 2 ft. from paved edge and 4' from back of curb to allow for bumper overhang. Mulch all planting bed areas to a minimum depth of 3". Mulch individual trees to a minimum depth of 2".
- 4. All landscaped areas in right of way shall be sodded and irrigated unless otherwise specified.

### MATERIALS

- Plant material shall be healthy, vigorous, and free of disease and insects as per AAN standards.
- 2. Kind, size and quality of plant material shall conform to American Standard for nursery stock, ANSI-260-2004, or most recent edition. 3. Shredded bark mulch installed at trees shall be finely chipped and shredded hardwood chips, consisting of pure wood
- products and free of all other foreign substances. Pine bark compost mulch installed at planting bed areas shall be free of all other foreign substances.

### INSTALLATION:

- 1. All compacted soil within the area to be landscaped shall be removed to a depth of not less than thirty inches (30") and shall be backfilled with topsoil. 2. Prepare planting beds by incorporating an approved composed organic soil into existing soil for all shrub, perennial, and
- annual planting beds at a minimum depth of 6". Thoroughly mix organic material into the existing soil by roto-tilling or other approved method to a minimum depth of 12".
- 3. Planting of trees, shrubs, and seeded groundcover shall be commenced during either the spring (March 15 June 15) or
- fall (September 1 October 15) planting season and with water available for hand irrigation purposes. 4. Apply liquid, root stimulator, to all shrubs and groundcovers at rates recommended by manufacturer during first planting watering following installation.
- 5. All planting beds will be prepared with polypropylene landscape fabric, that meets or exceeds the DeWitt Pro5 specification, before plant material is installed. Any product substitution to be submitted by contractor to project manager for approval prior to installation. Rock mulch to be placed over polypropylene landscape fabric at a depth of 2" - 4".
- 6. Landscape fabric should be installed flat with all folds either pinned down with 4" landscape pins, overlap adjoining sheets a minimum of 2 - 4" steel landscape staples to be used to pin down the corners before mulch is installed. 7. After plants have been installed, all planting beds shall be treated with dacthal pre-emergent herbicide prior to mulch
- application.
- 8. Plant pit backfill for trees and shrubs shall be 20% peat or well composted manure and 80% topsoil.
- 9. Trees planted in landscaped planting areas shall be situated a minimum of three (3) feet from any curb. 10. Plant material shall be maintained and guaranteed for a period of one year after owner's acceptance of finished job. All
- dead or damaged plant material shall be replaced at landscape contractor's expense. 11. Landscape contractor shall maintain all plant material until final acceptance, at which point the one year guarantee
- beains 12. All landscape beds shall be level with surrounding hardscape.

### SOD NOTES

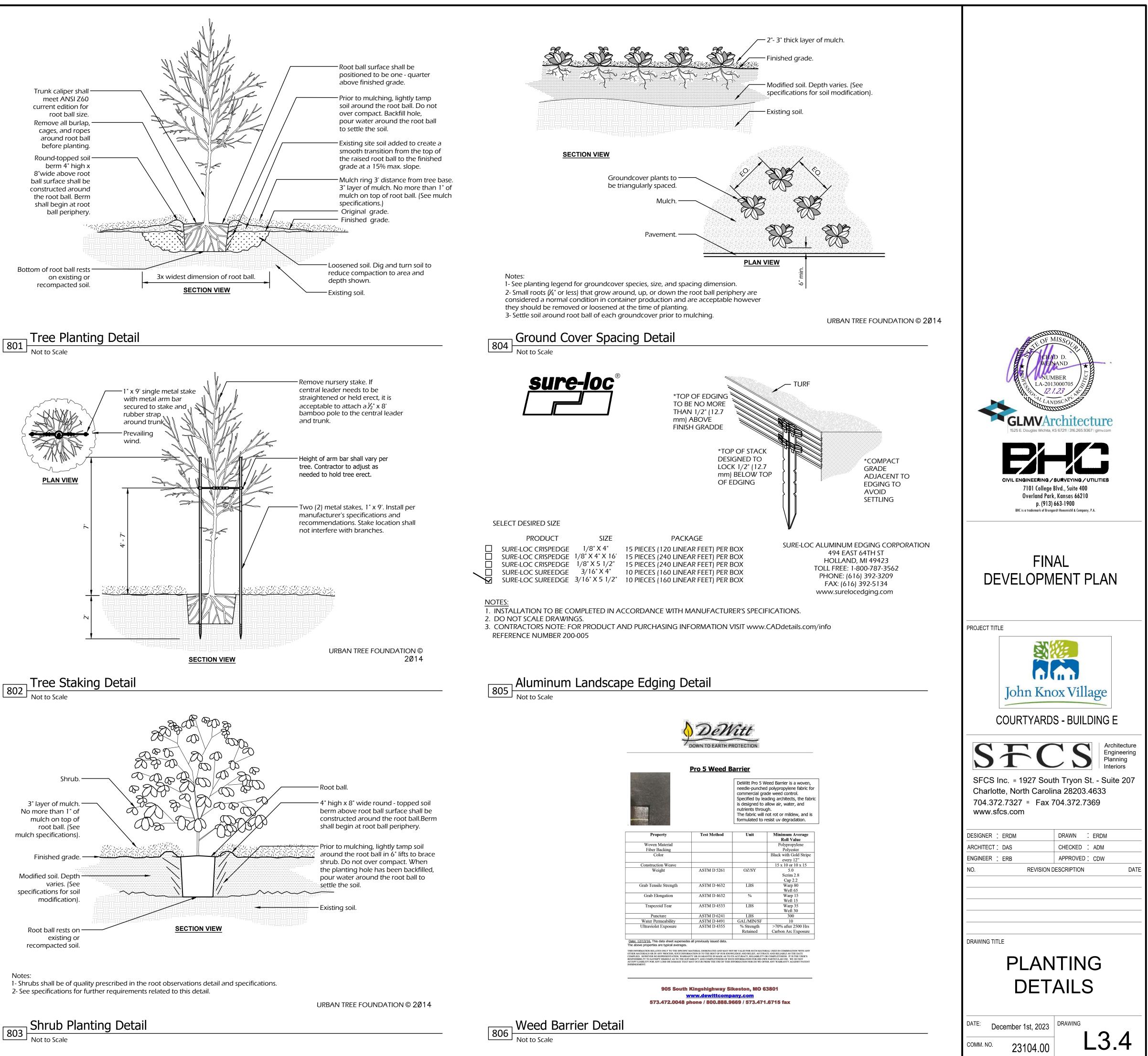
- 1. All landscaped areas shall receive a minimum 6-inch depth of topsoil compacted to 85% density at optimum moisture content.
- 2. The entire surface to be landscaped should be reasonable smooth and free from stones, roots or other debris.
- 3. Sod shall be machine stripped at a uniform soil thickness of approximately one inch (plus or minus 1/4-inch). The measurement for thickness shall exclude top growth and thatch, and shall be determined at the time of cutting in the field. Precautions shall be taken to prevent drying and heating. sod damaged by heat and dry conditions, and sod cut more than 18 hours before being incorporated into the work shall not be used.
- Handling of sod shall be done in a manner that will prevent tearing, breaking, drying and other damage. Protect exposed roots from dehydration. Do not deliver more sod than can be laid within 24 hours.
- 5. Moisten prepared surface immediately prior to laying sod. water thoroughly and allow surface to dry before installing sod, fertilize, harrow or rake fertilizer in the top 1-1/2-inches of topsoil, at a uniform rate.
- 6. Fertilizer shall be 20-10-5 commercial fertilizer of the grade, type, and form specified and shall comply with the rules of the state dept. of agriculture. fertilizer shall be identified according to the percent N,P,K in that order.
- 7. Saturate sod with fine water spray within two hours of planting. During the first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of four inches.



berm 4" high x shall begin at root

Bottom of root ball rests on existing or





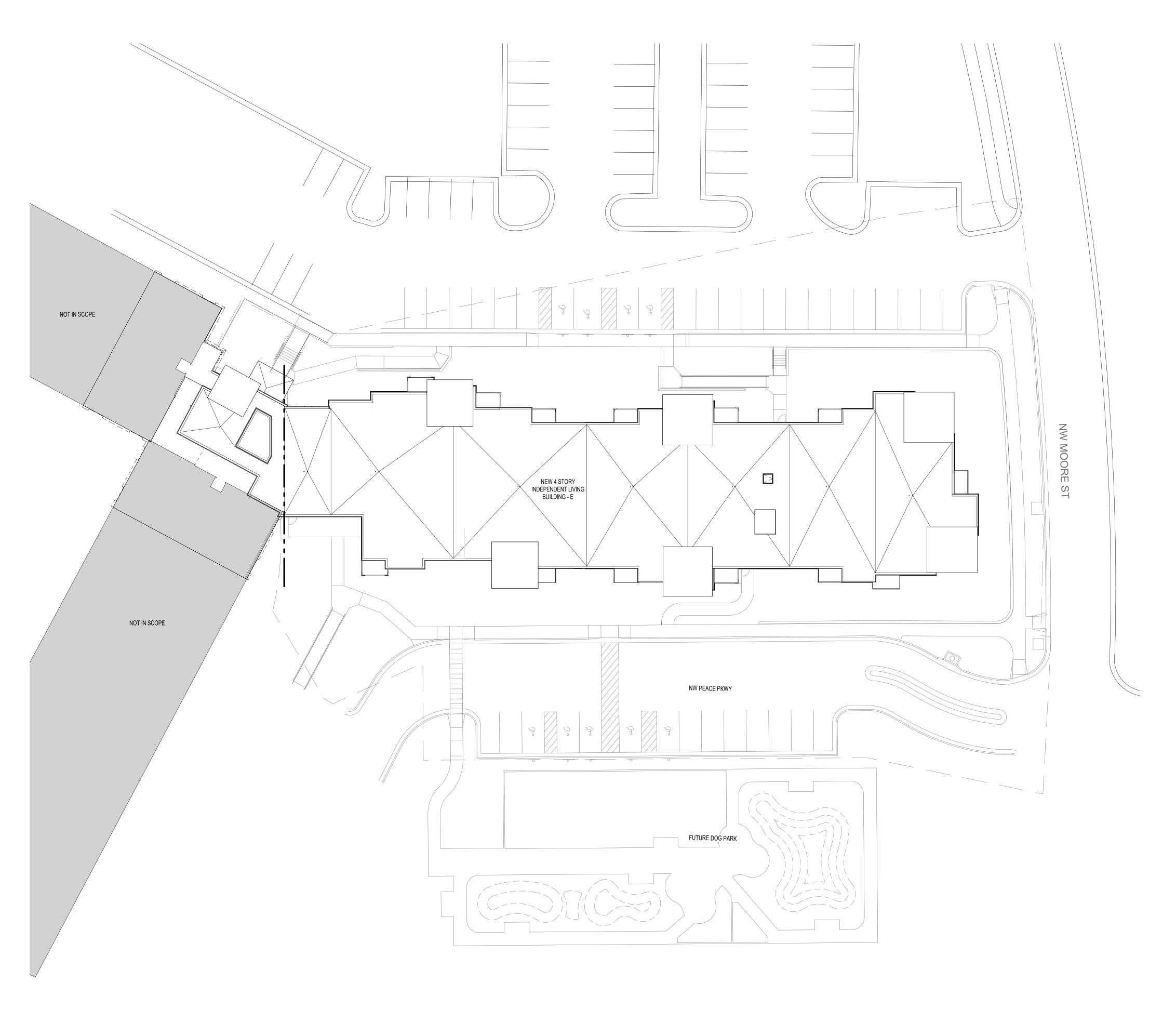


No more than 1" of mulch specifications).

Modified soil. Depth specifications for soil

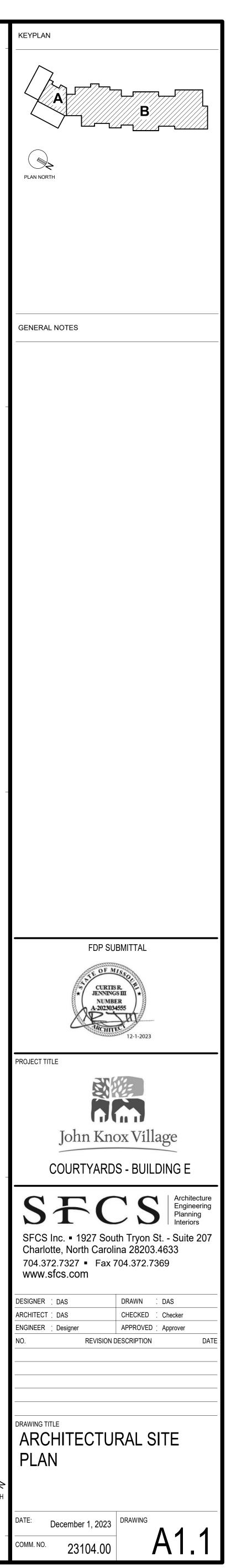
Notes

803



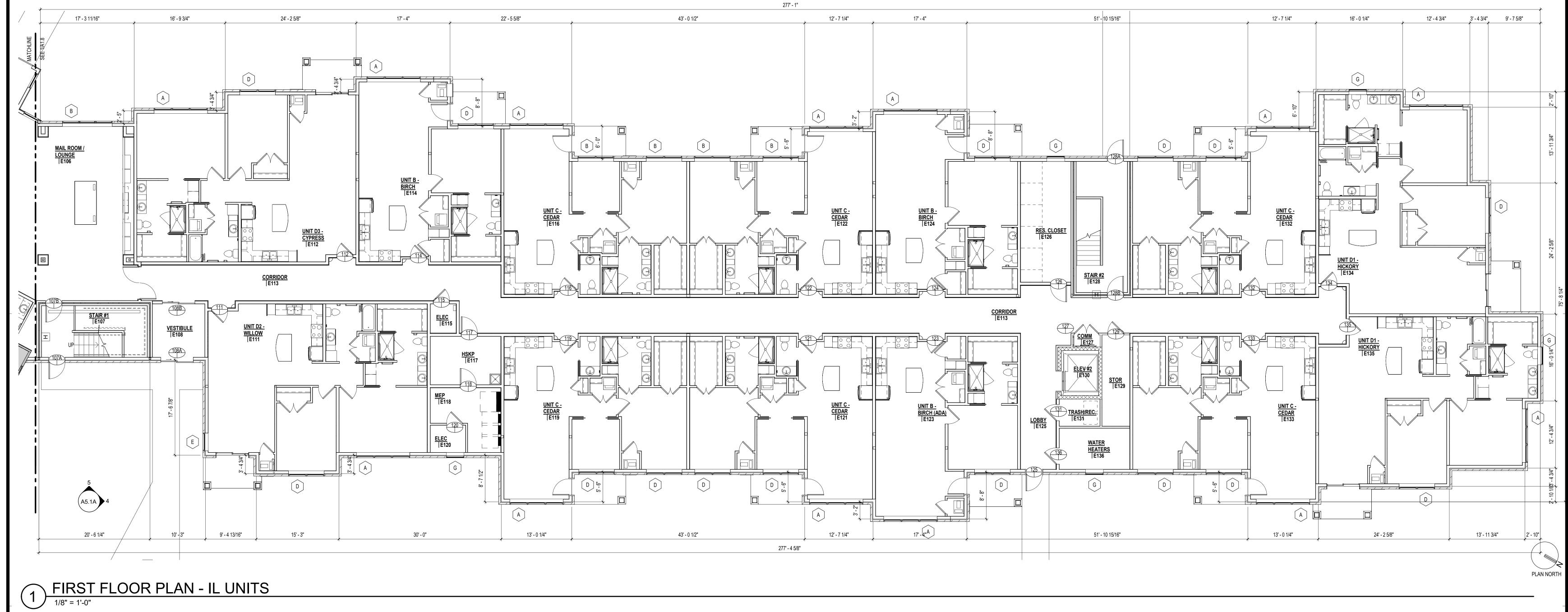
1) SITE PLAN 1" = 20'-0"

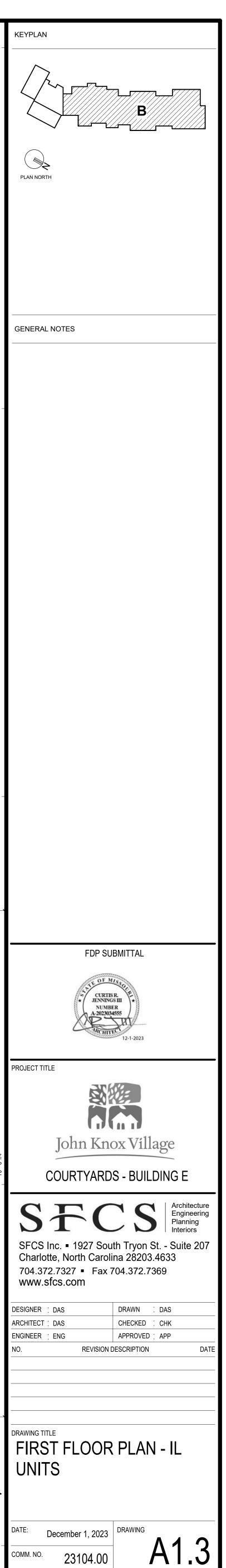




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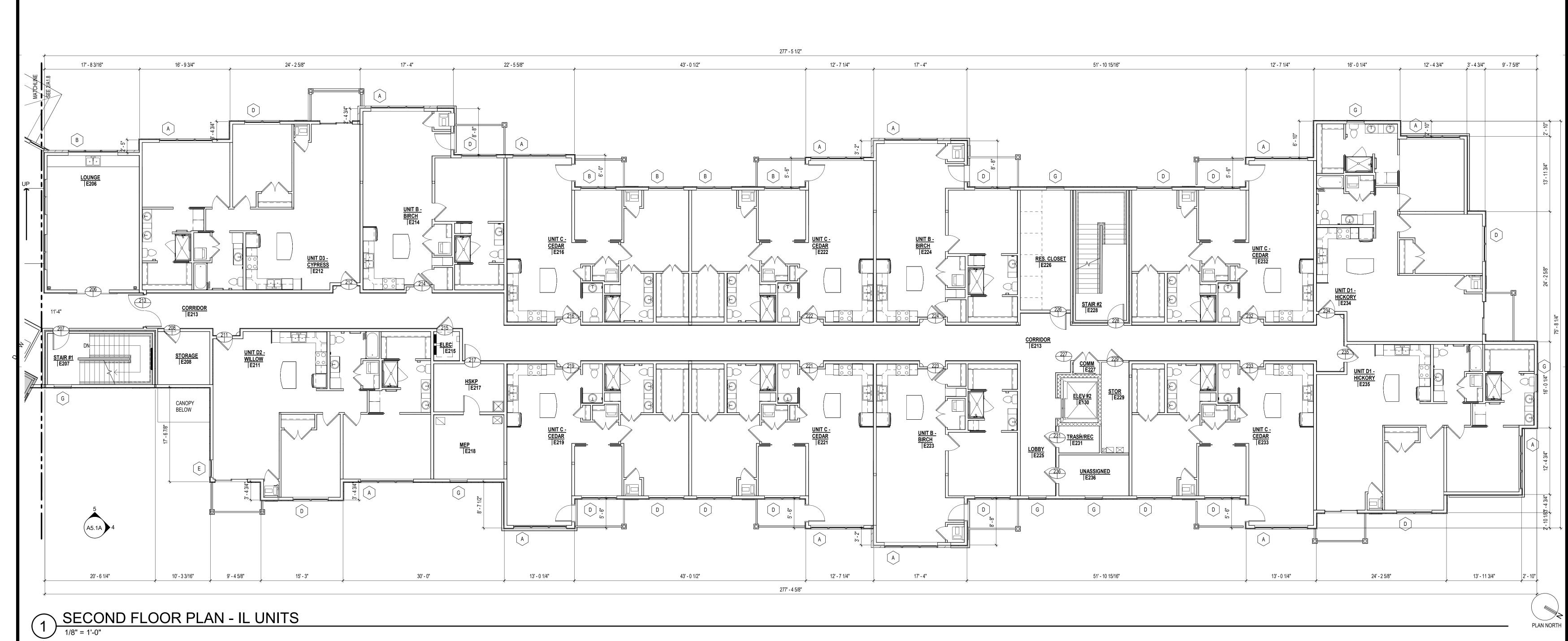
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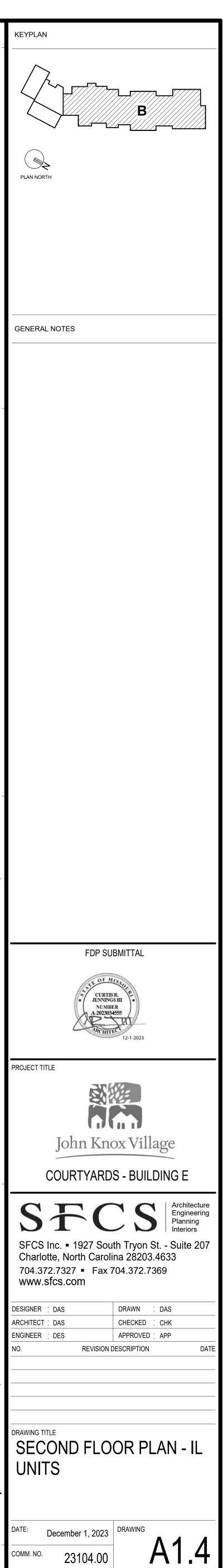




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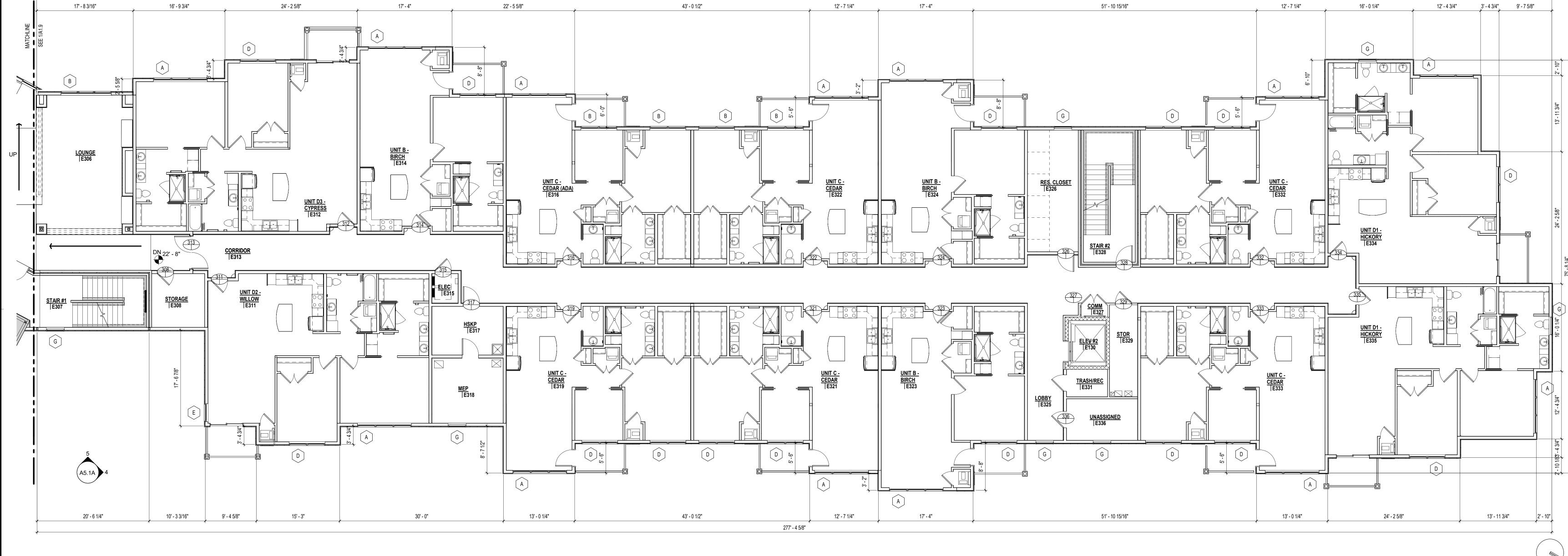
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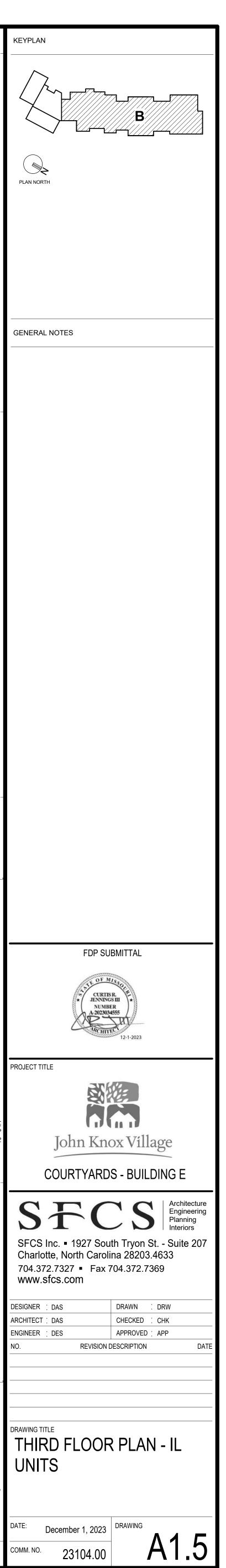
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# 1 THIRD FLOOR PLAN - IL UNITS



277' - 5 1/2"

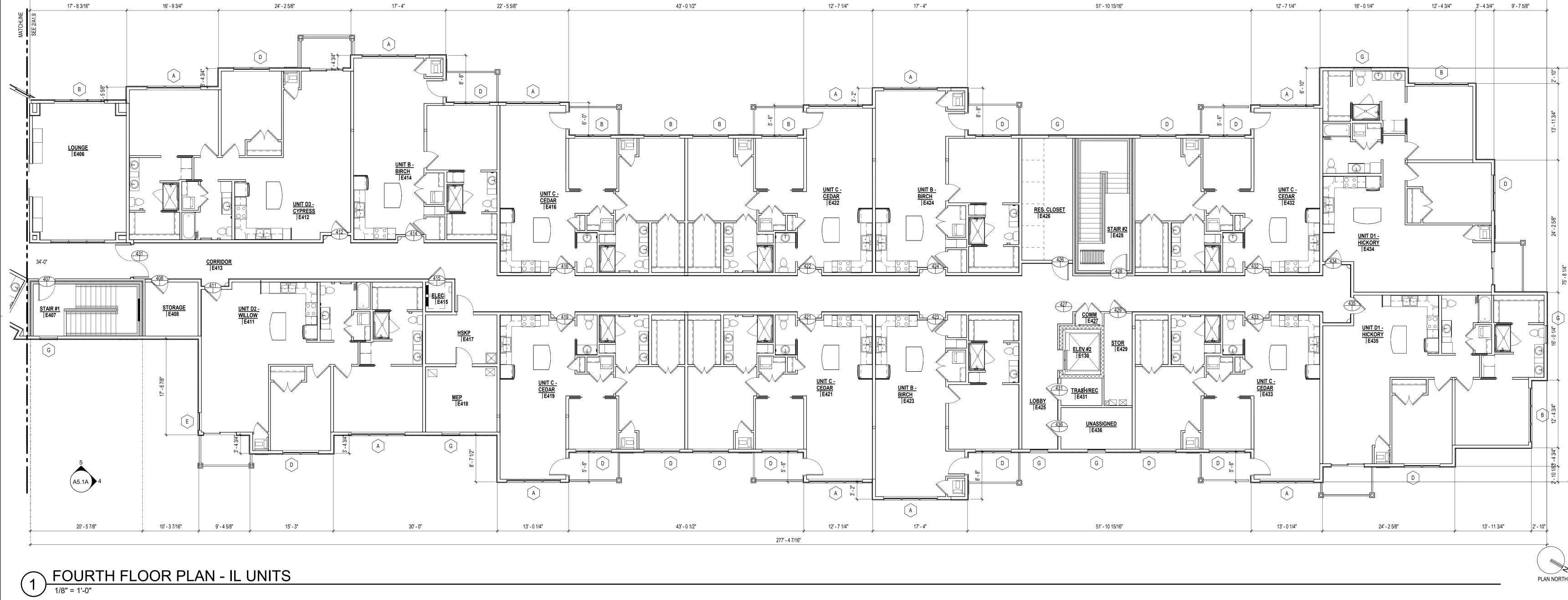
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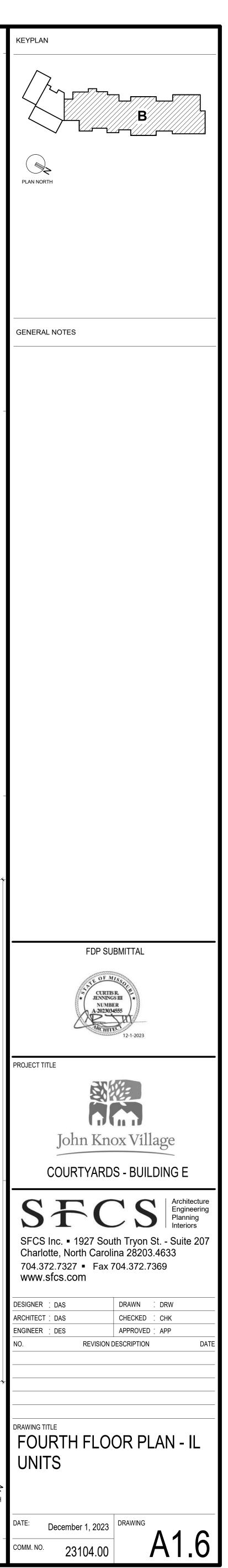
PLAN NORTH

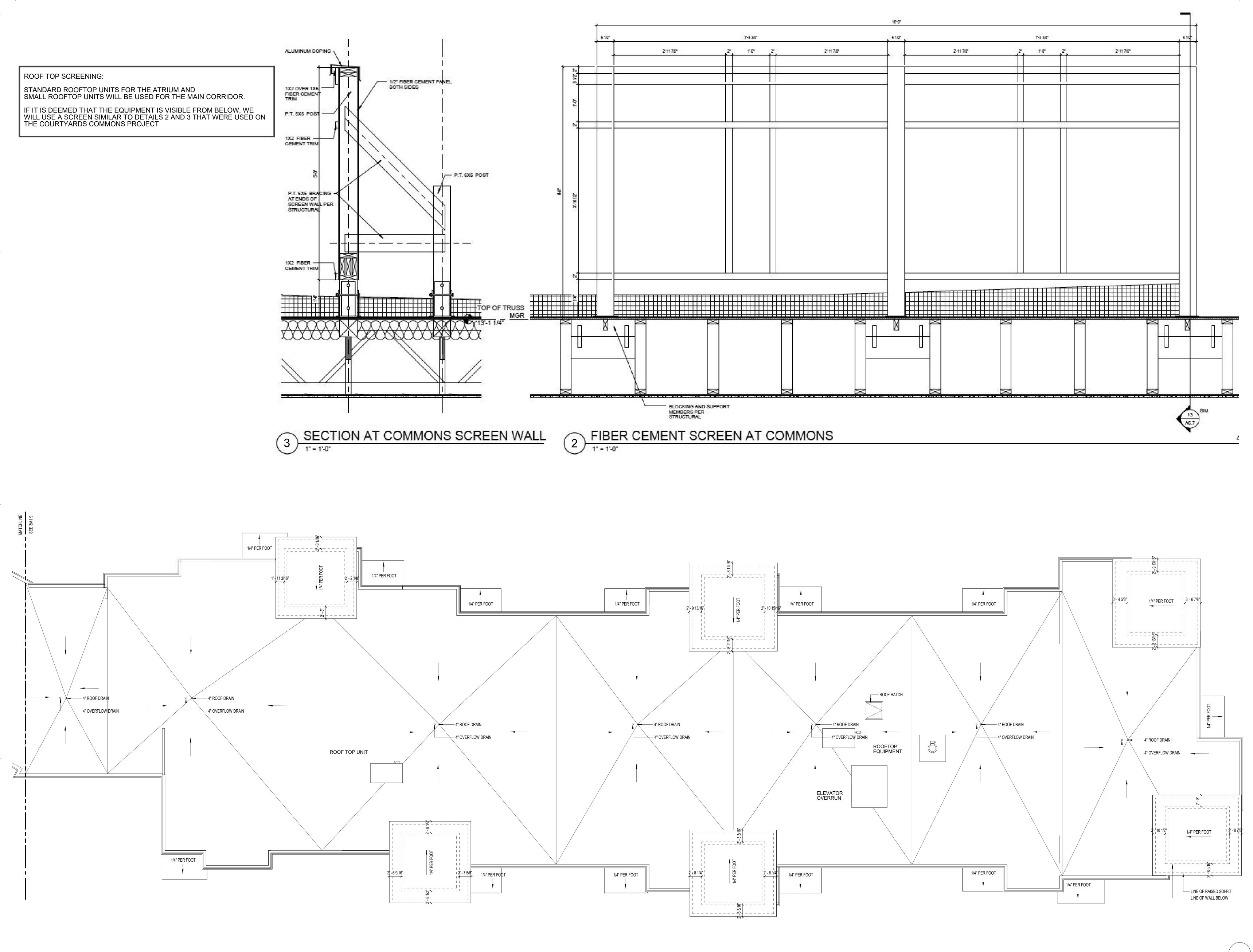
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277' - 5 1/2"



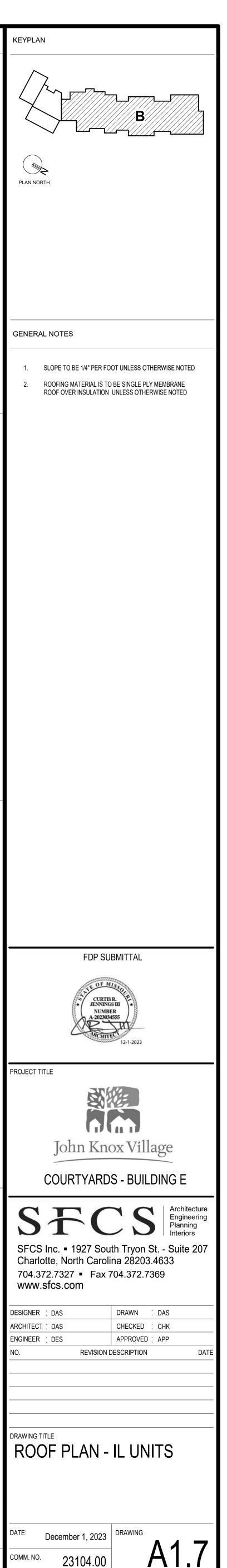


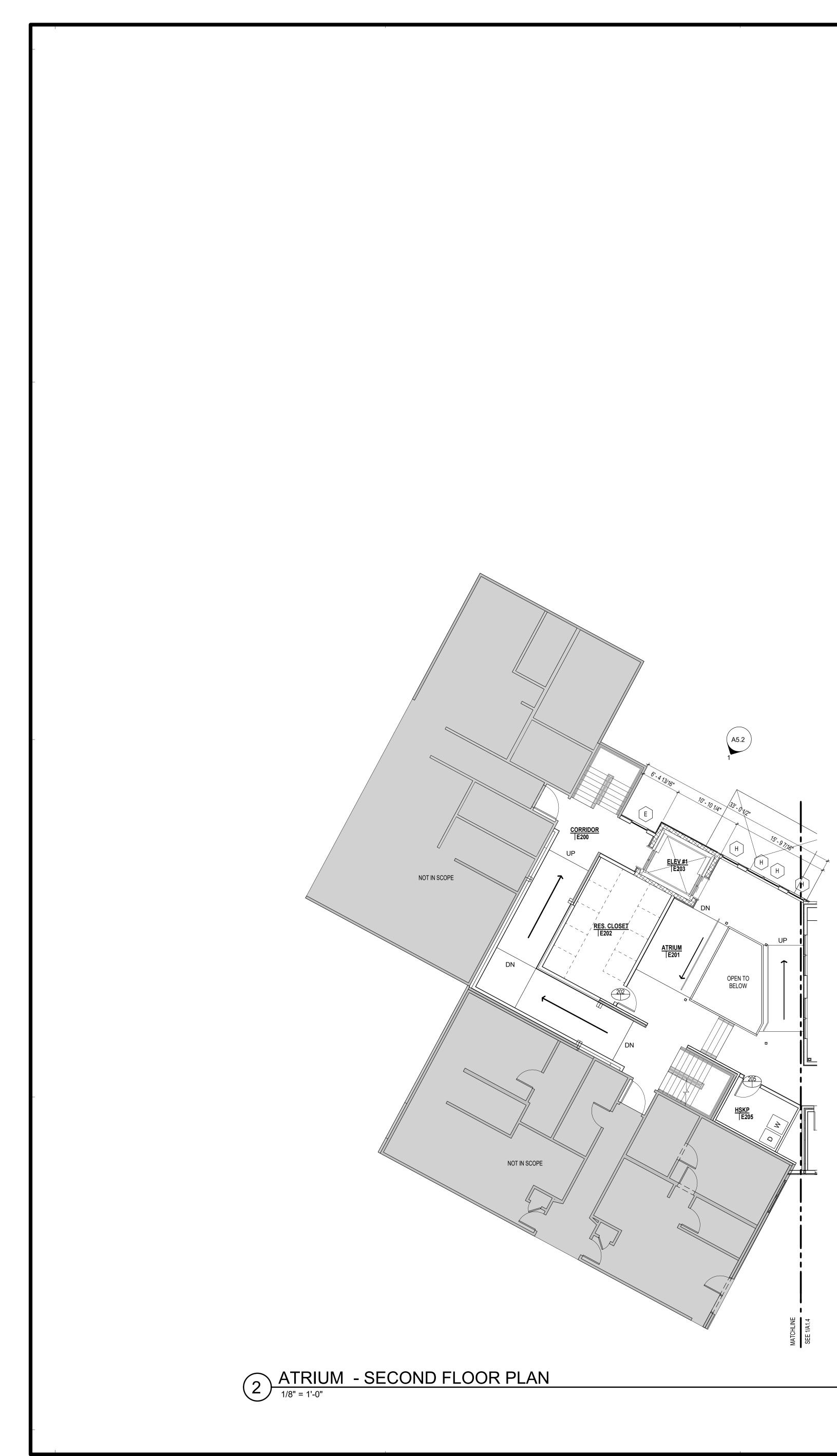
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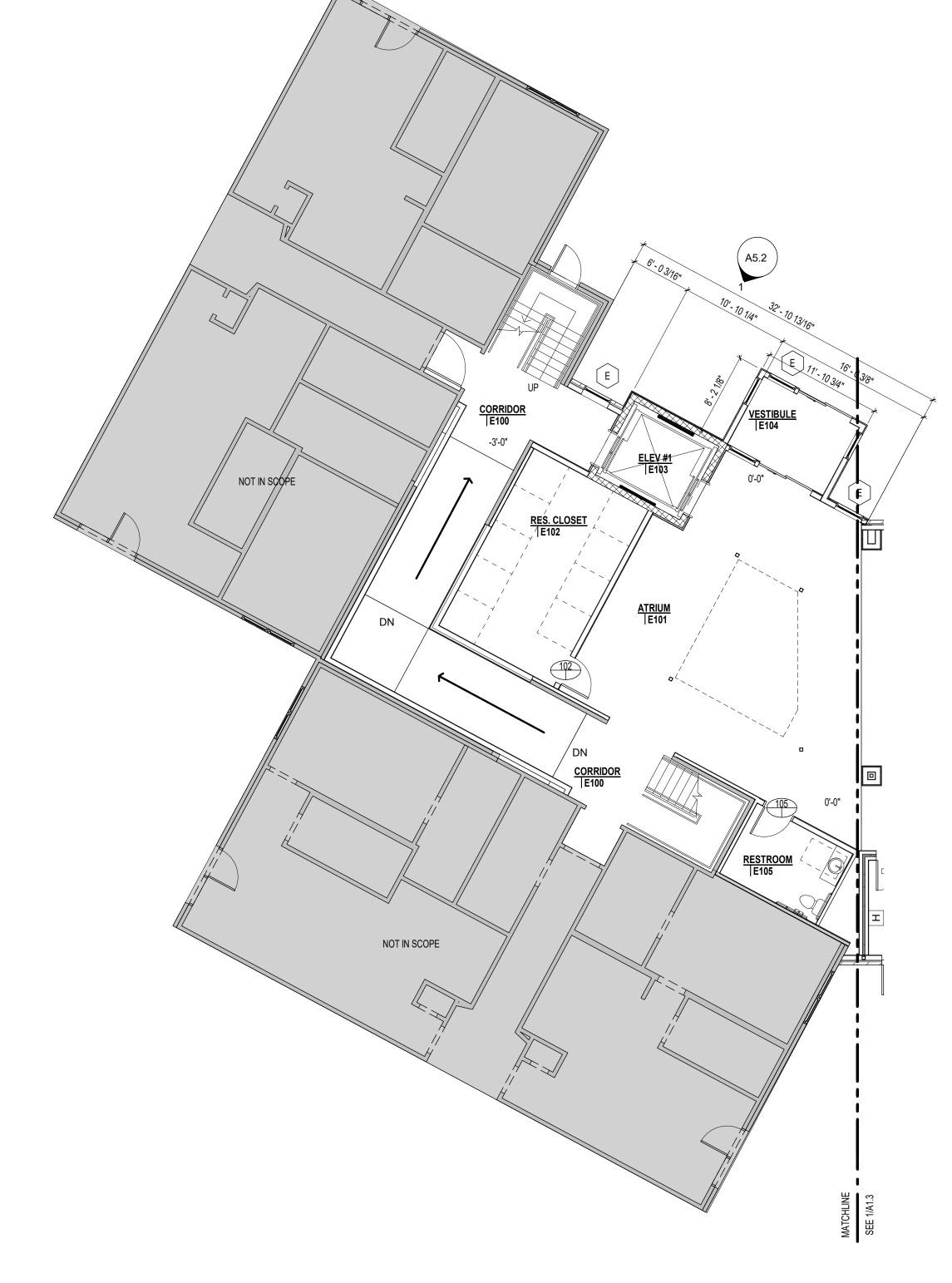
1 ROOF PLAN - IL UNITS

PLAN NORTH



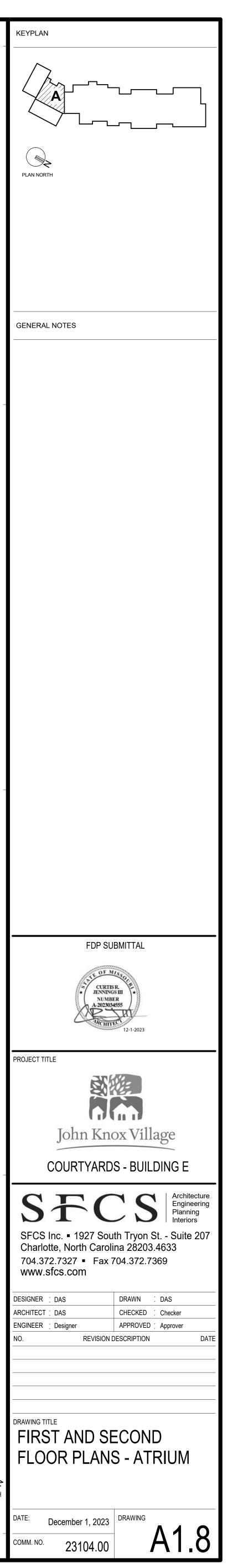


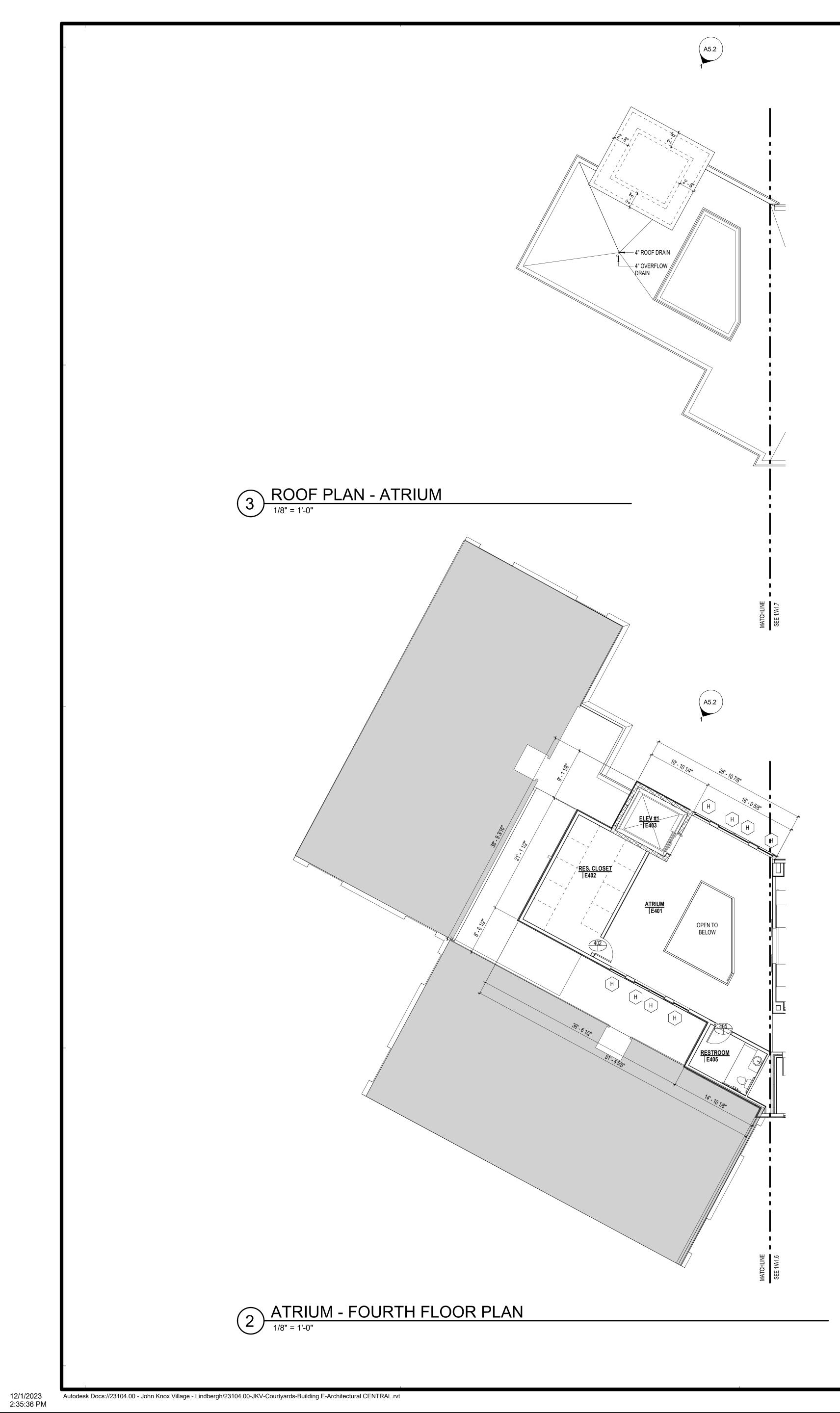
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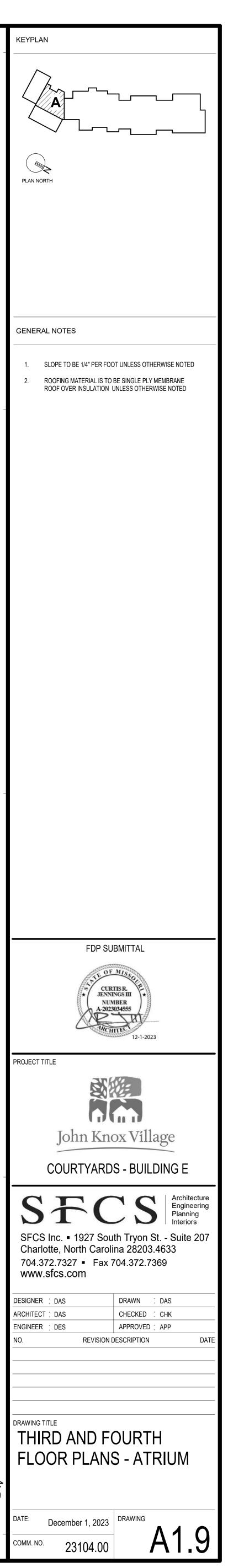






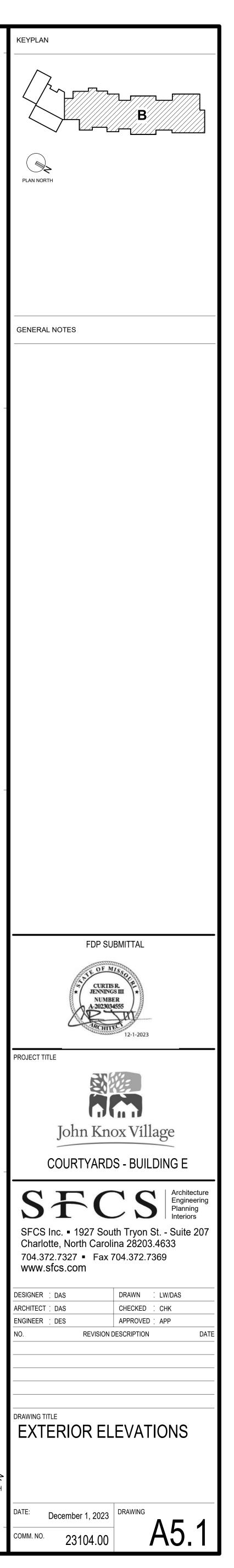






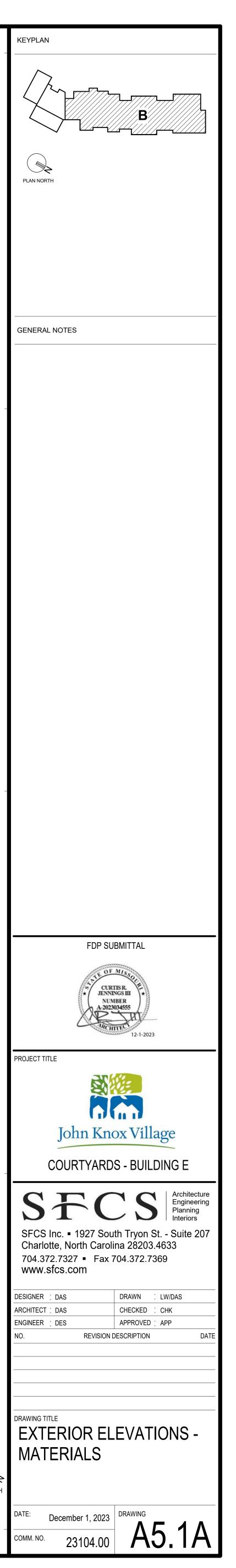


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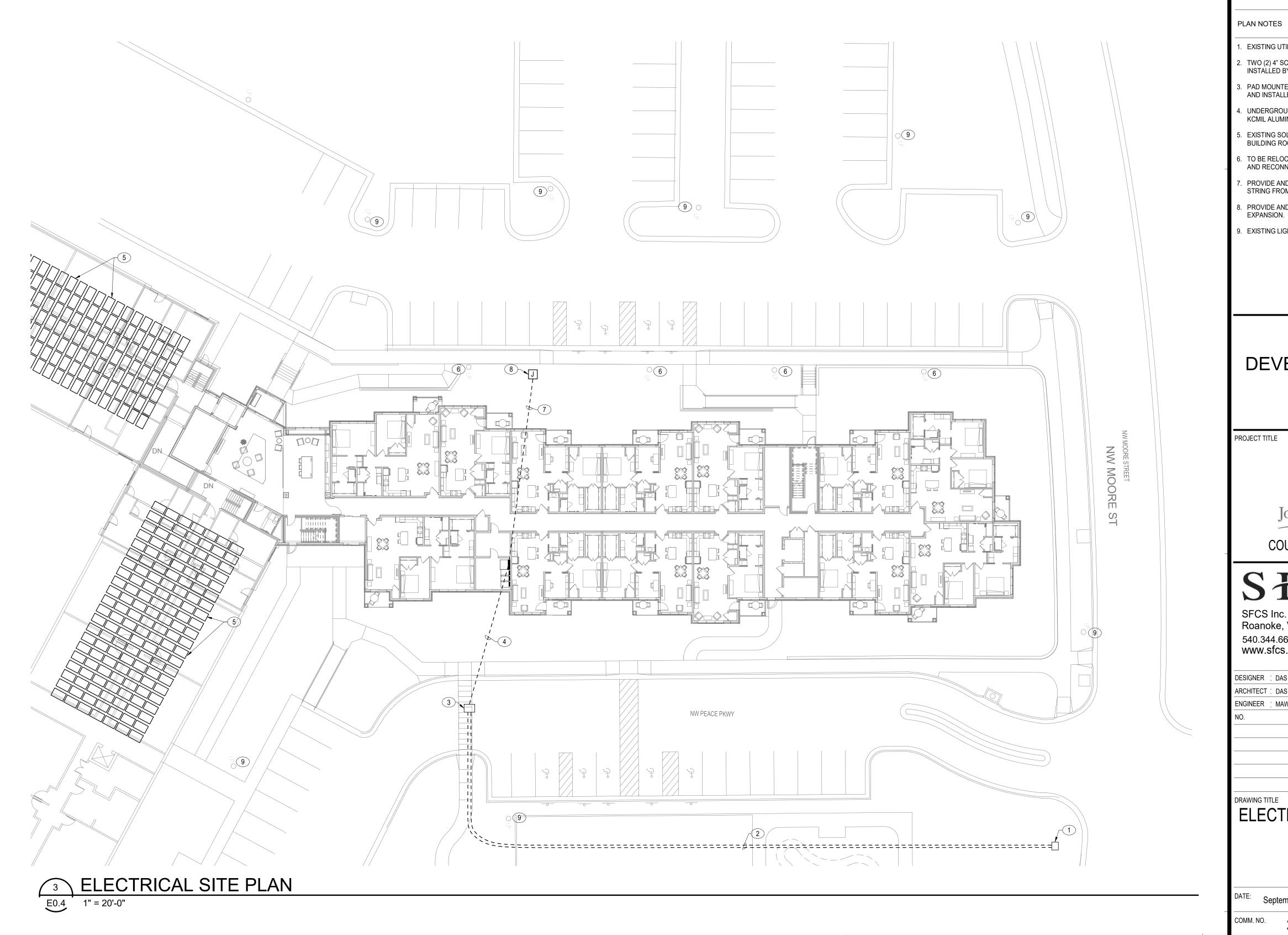
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DESIGN DEVELOPMENT SET			
NOT FOR CO	NSTRUCTION		
PROJECT TITLE			
SFCS Inc. • 305 Sou Roanoke, Virginia 240 540.344.6664 • Fax 5 www.sfcs.com	011.2003		
DESIGNER : DAS ARCHITECT : DAS ENGINEER : MAW	DRAWN : MAW, DKW CHECKED : MAW APPROVED : JSK		
NO. REVISION D	ESCRIPTION DATE		
DRAWING TITLE ELECTRICAL SITE PLAN			
DATE: September 29, 2023 COMM. NO. 23104.00	DRAWING E0.4		

- 9. EXISTING LIGHTING POLES TO REMAIN.
- 8. PROVIDE AND INSTALL 12"X12" PULLBOX FOR FUTURE EXPANSION.
- 7. PROVIDE AND INSTALL TWO (2) 2" SCH 40 PVC WITH PULL STRING FROM PANEL NLDP1 TO PULLBOX
- 6. TO BE RELOCATED. PROVIDE NEW UNDERGROUND WIRING AND RECONNECT TO EXISTING CIRCUIT.
- 5. EXISTING SOLAR ARRAY AND DISTRIBUTION ON EXISTING BUILDING ROOF TO BE RELOCATED OR REMOVE.
- UNDERGROUND SERVICE LATERAL. 4 SETS OF (4 #500 KCMIL ALUMINUM IN 3 ½"C.)

- 3. PAD MOUNTED UTILITY SERVICE TRANSFORMER PROVIDED AND INSTALLED BY UTILITY.

- . EXISTING UTILITY PAD MOUNTED SWITCH

- 2. TWO (2) 4" SCH. 40 PVC FOR PRIMARY PROVIDED AND INSTALLED BY UTILITY.