







































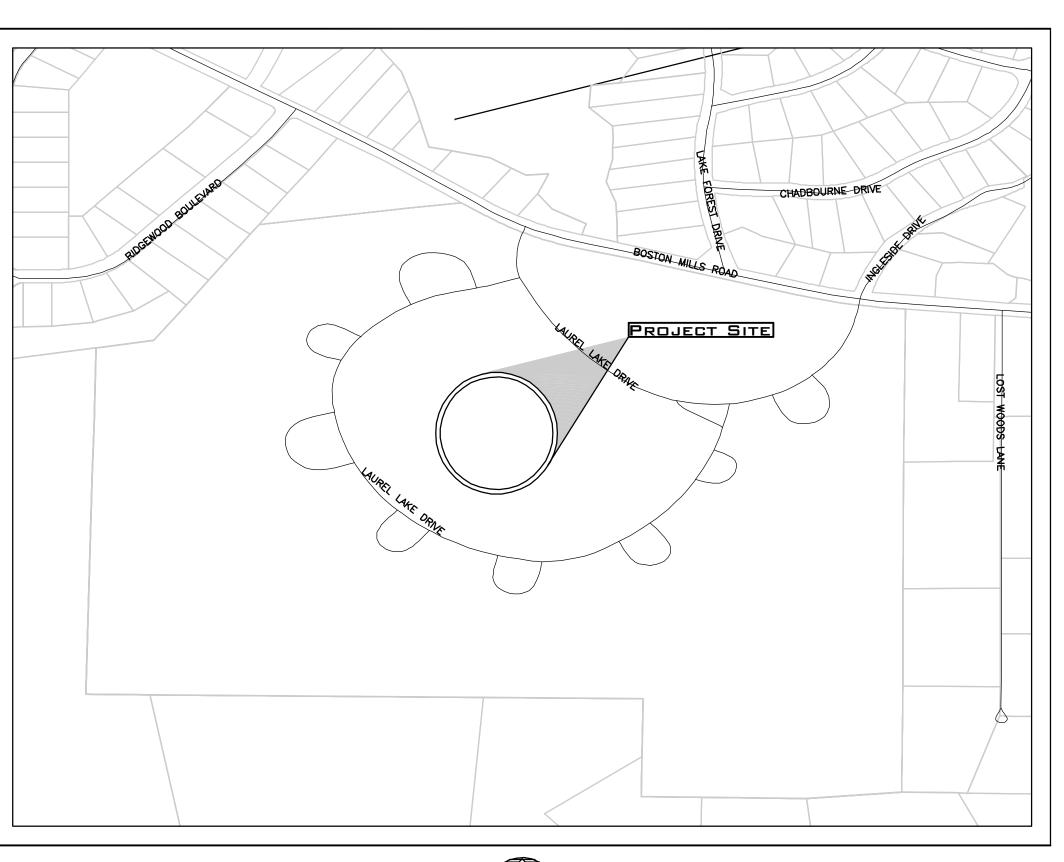
IMPROVEMENT PLANS FOR LAUREL LAKE VILLA ADDITIONAL BUIDINGS 1-5, 8,9

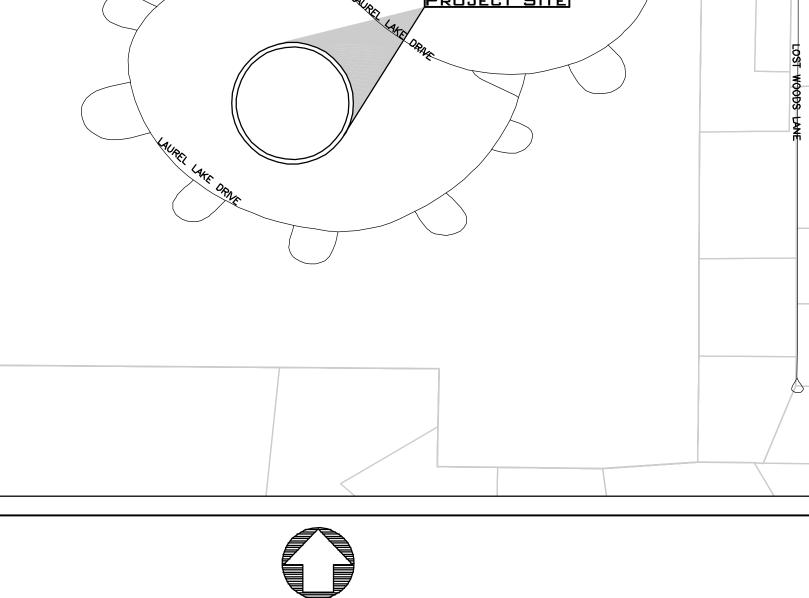
THE CITY OF HUDSON, COUNTY OF SUMMIT AND STATE OF OHIO

INDEX TO DRAWINGS

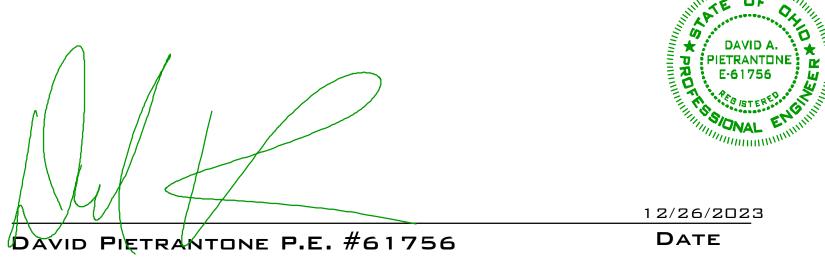
TITLE PAGE	C 1.O 1
EXISTING CONDITIONS	C2.01
SCHEMATIC PLAN	C2.O2
Buildings 1&2	C3.01-C2.04
Building 3	C4.01-C4.04
Building 4	C5.01-C5.04
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Notes & Details	C8.01-C8.03
SWPPP	C9.01-C9.04
ME NOTES & DETAILS	MEO.01-MEO.02
ME PLAN - OVERALL	ME1.00

ME1.01-ME1.05











200 LAUREL LAKE DRIVE HUDSON, OHIO 44236

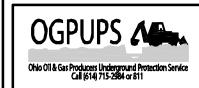


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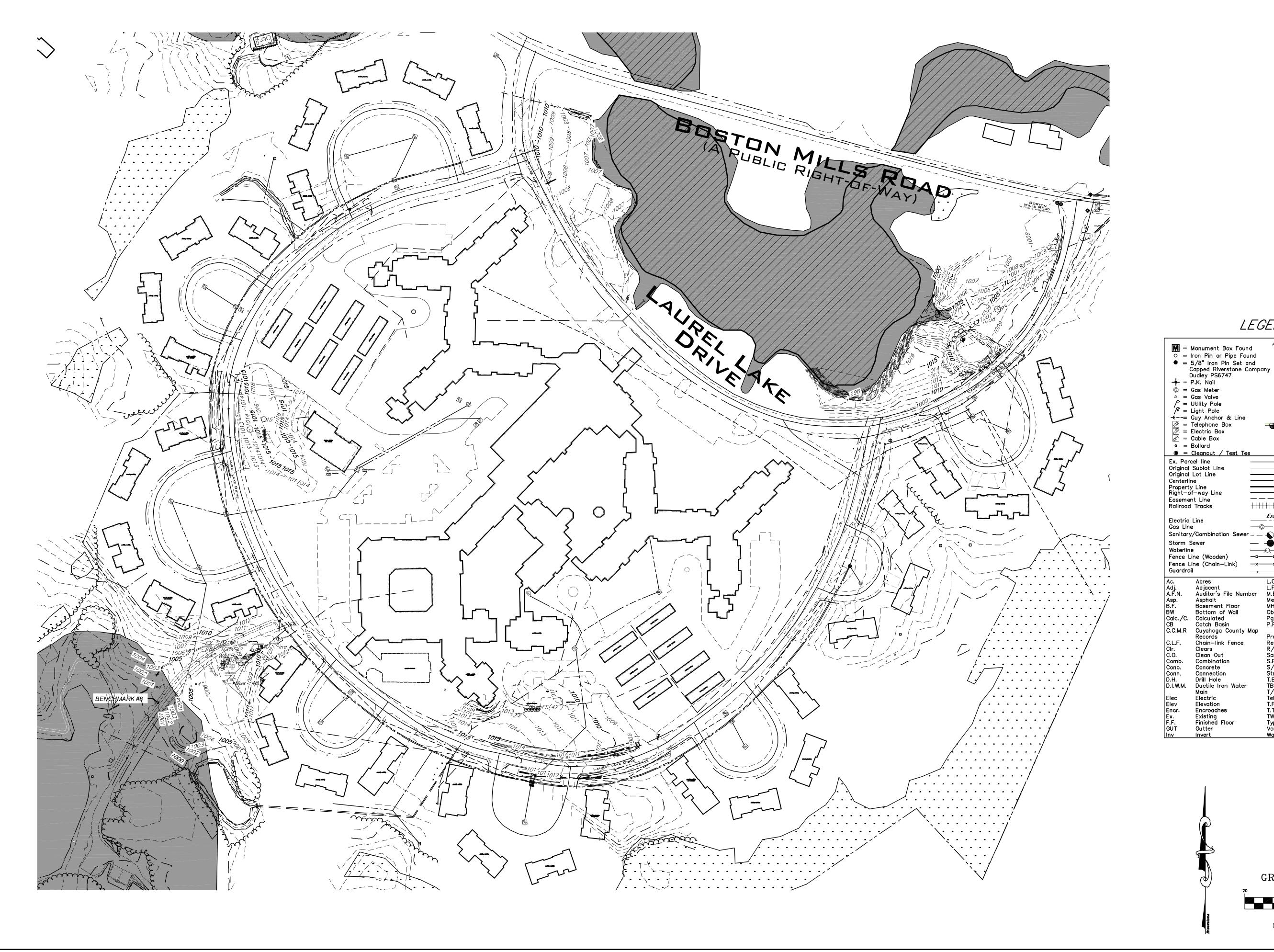
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ME SITE PLAN -

INDIVIDUAL SITES





PLAN REVISIONS:

LEGEND

🕂 = P.K. Nail

△ = Gas Valve / = Utility Pole

Auditor's File Number Asphalt

Basement Floor Bottom of Wall

Chain-link Fence

Records

Clean Out

Concrete

Drill Hole

Electric

Connection

Encroaches

Existing
Finished Floor
Gutter

Combination

Spot Elevation Tag

| = Water Valve

₩ = Water Meter

= Catch Basin 면 = Property Line

← Centerline

Lineal Feet

Number

Proposed

Sanitary

Meas./M. Measured

Stm. T.B.M.

Typ. Vol.

Match Existing

Permanent Parcel

Right-of-way

Square Feet

Top of Curb

Top Of Footer Test Tee

Top of Wall Typical Volume

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

Temporary Bench Mark To Be Removed

Curb Inlet

= Storm Manhole

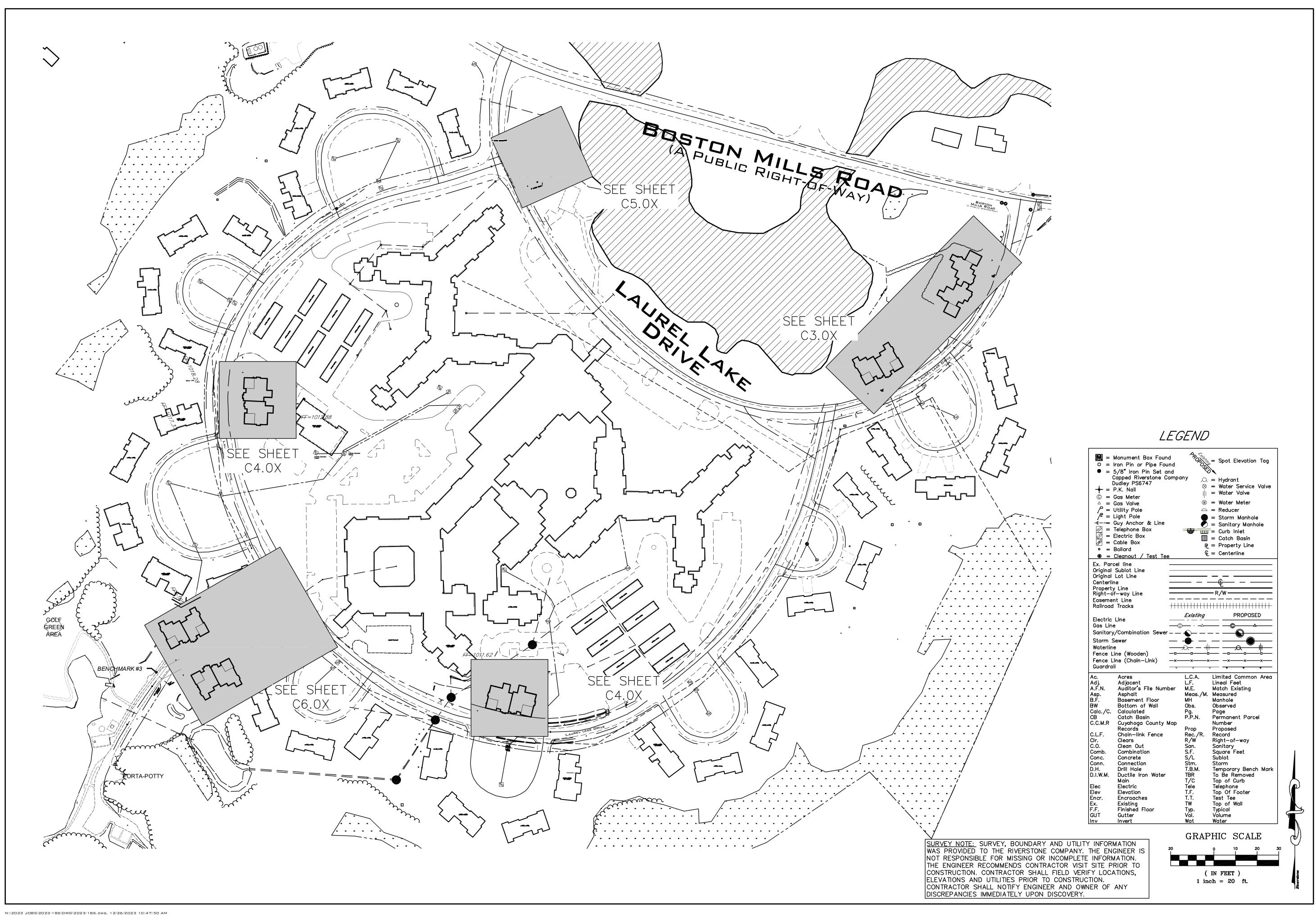
= Sanitary Manhole

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G - ENGINEERING - DESIGN DE AVENUE - SUITE 100 AND - OHIO - 44114 -2000 FAX: (216) 491-9640 RSTONESURVEY.COM

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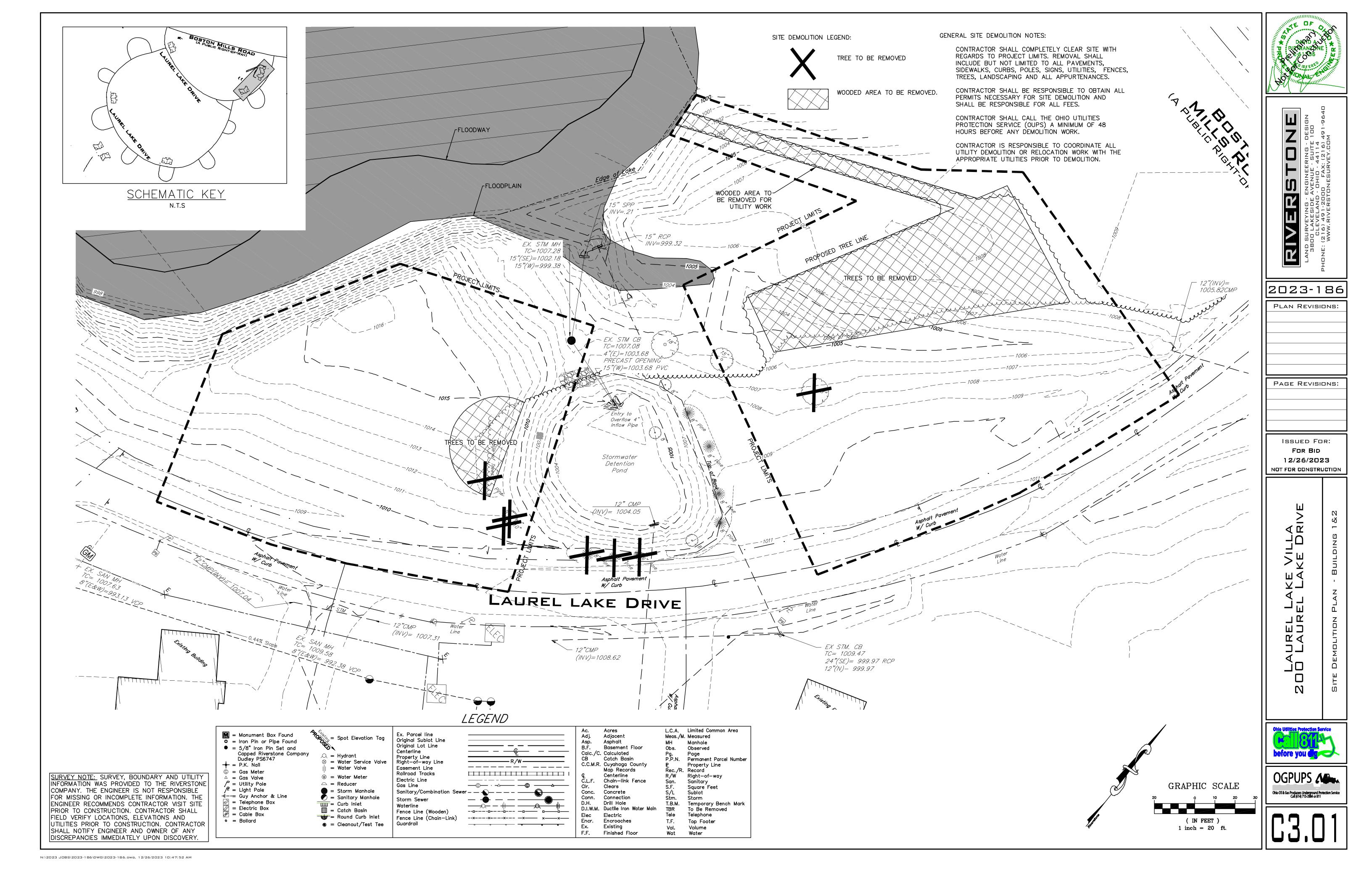
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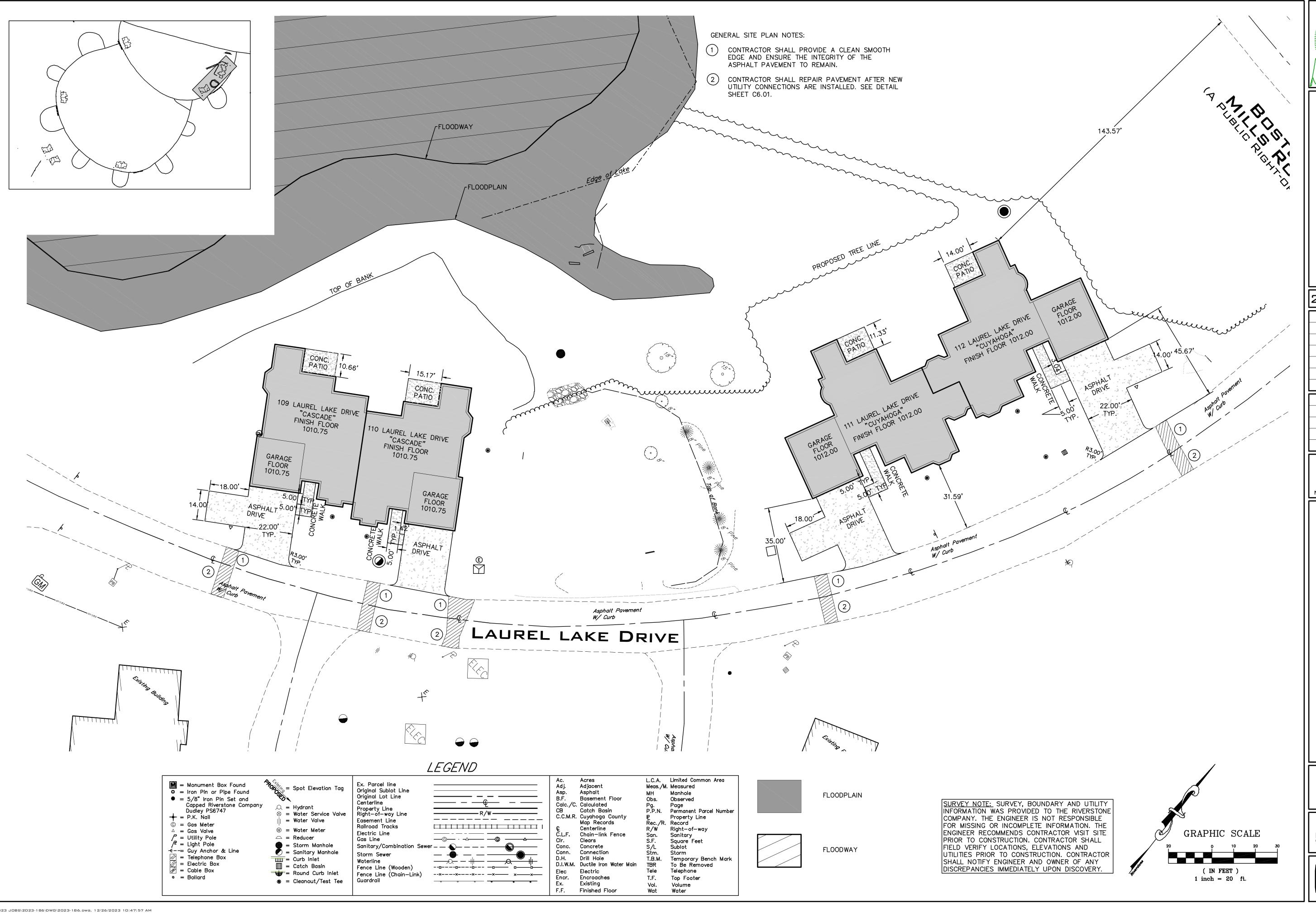
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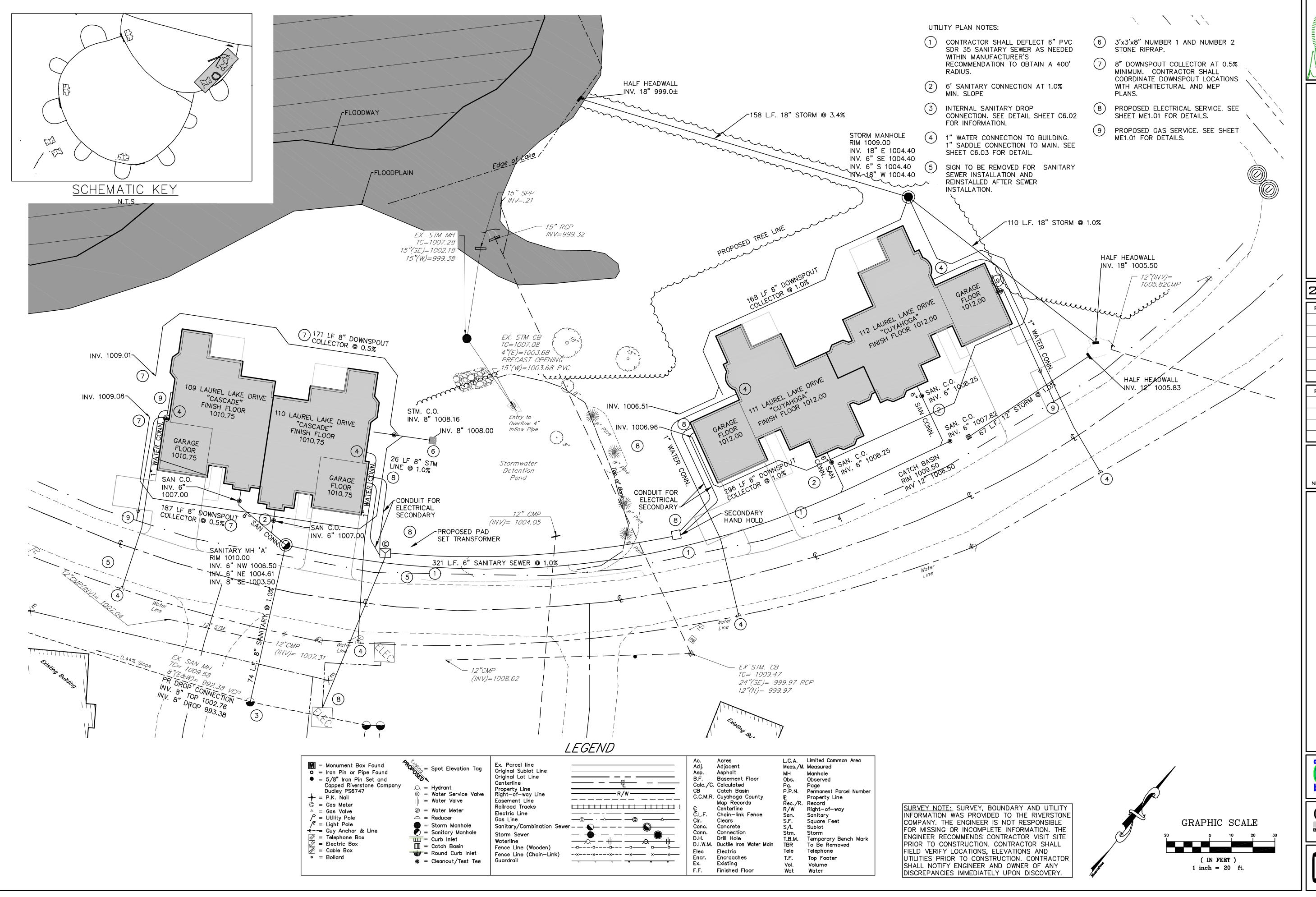
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PLAN - BUILDING 1&2

UTILITY PLA

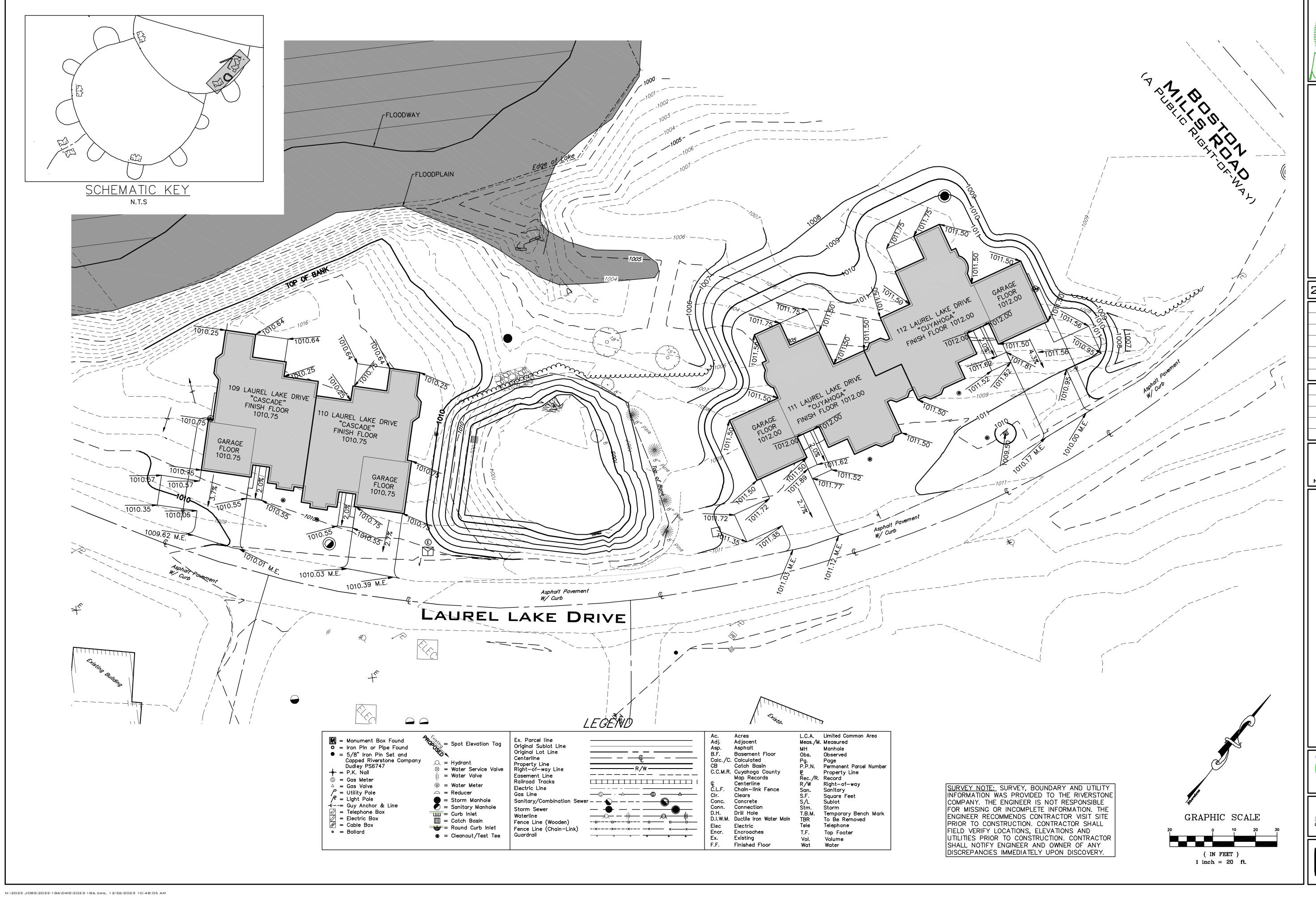


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OGPUPS Chicago Chicago

C3.03





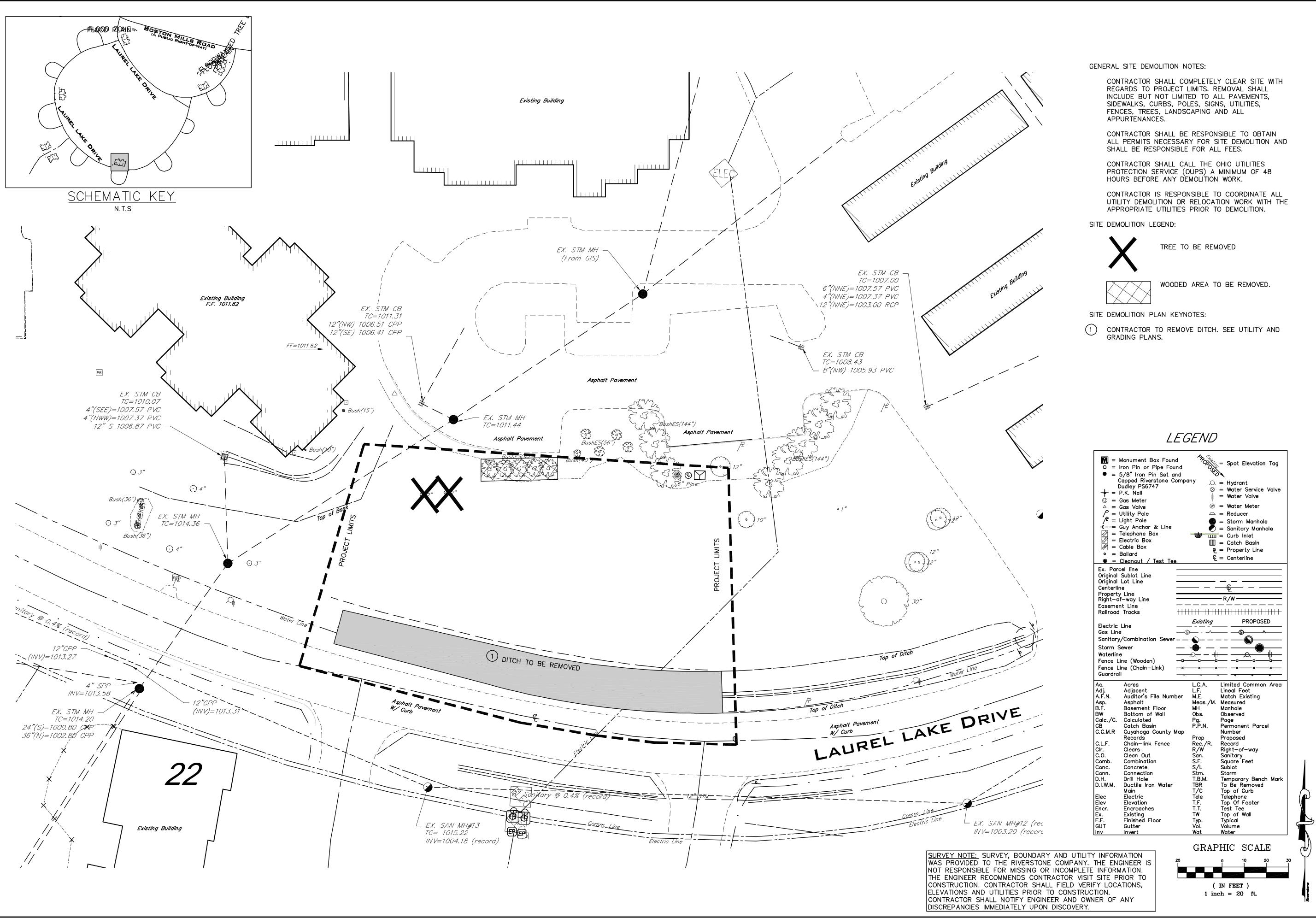
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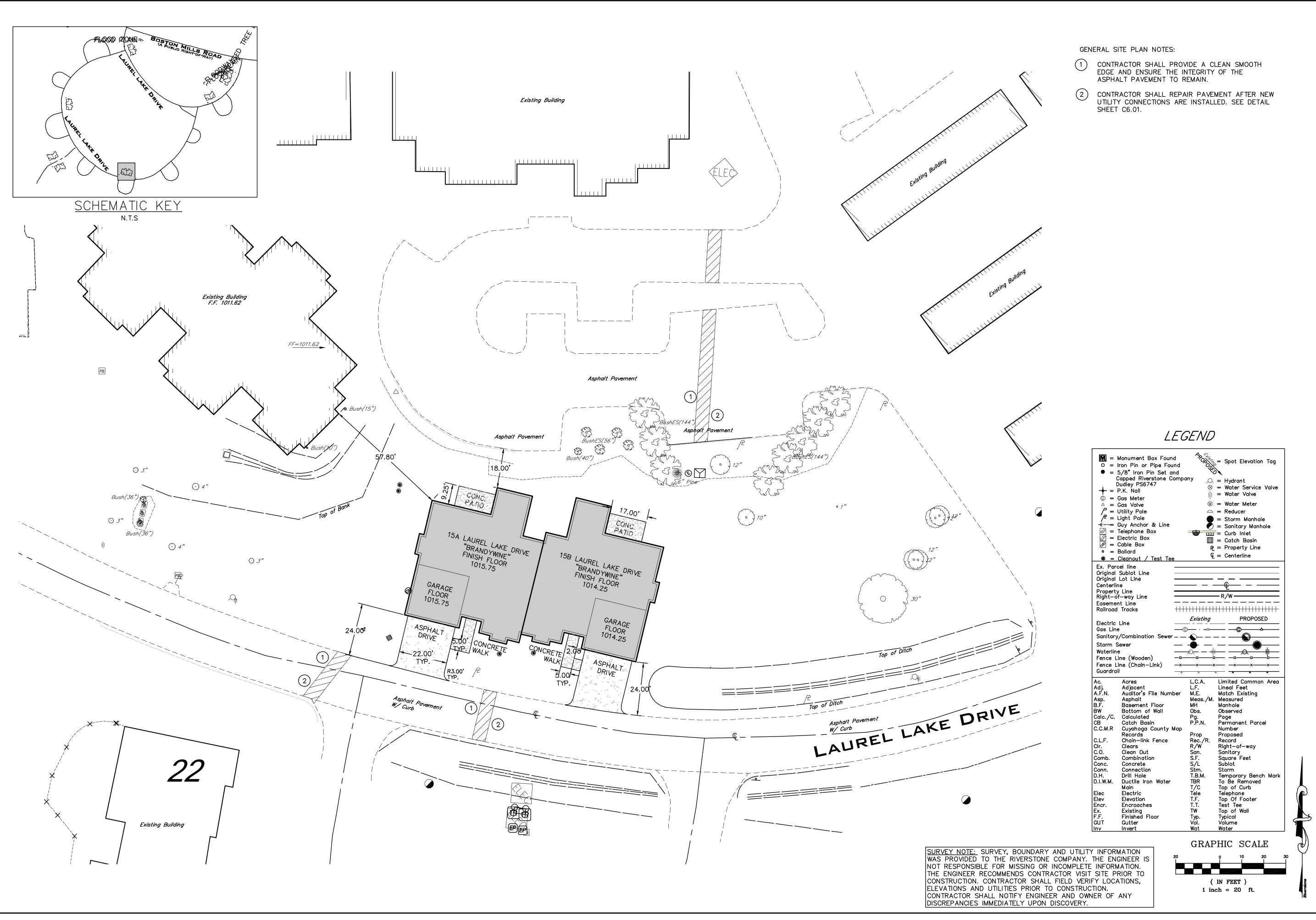


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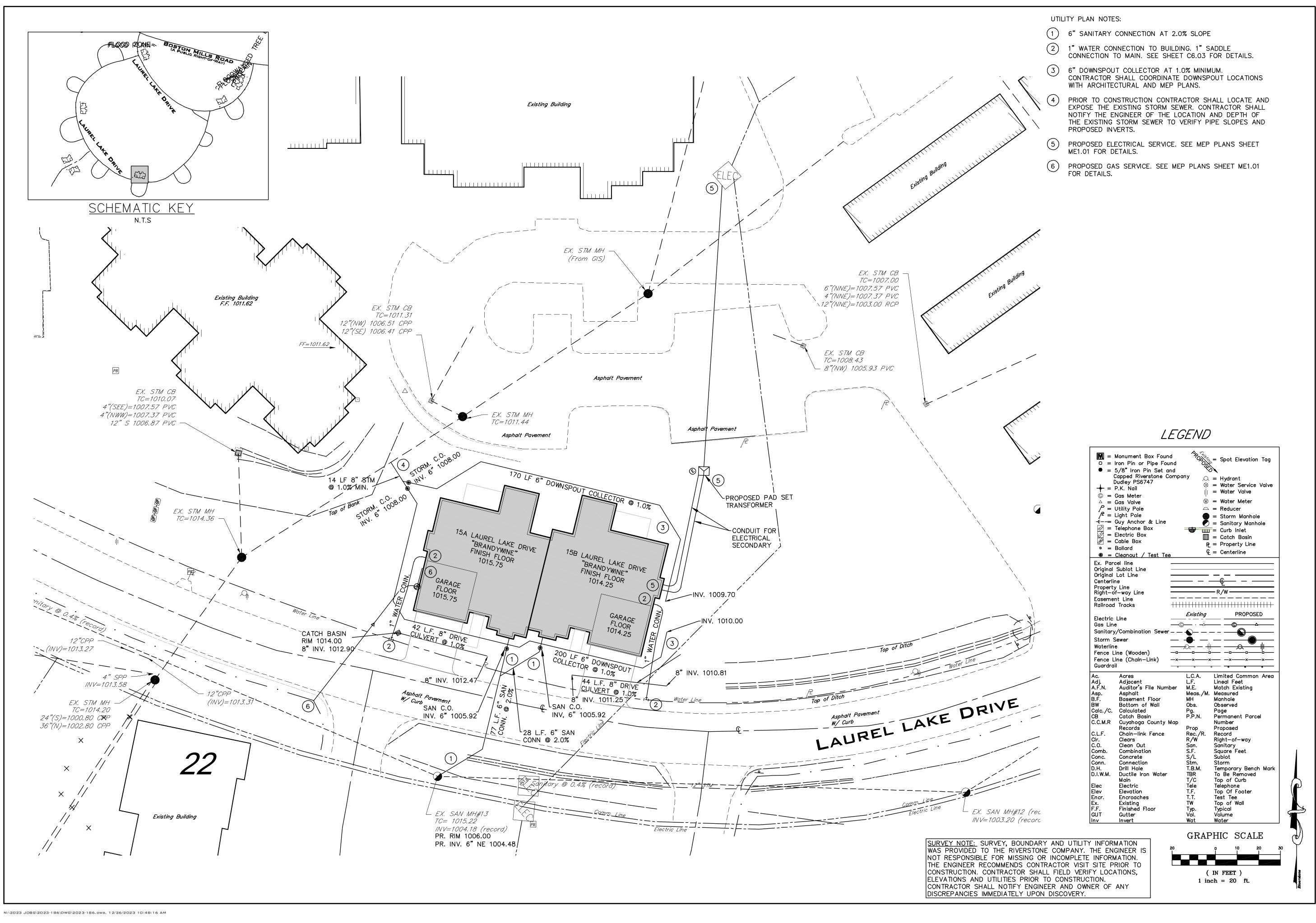


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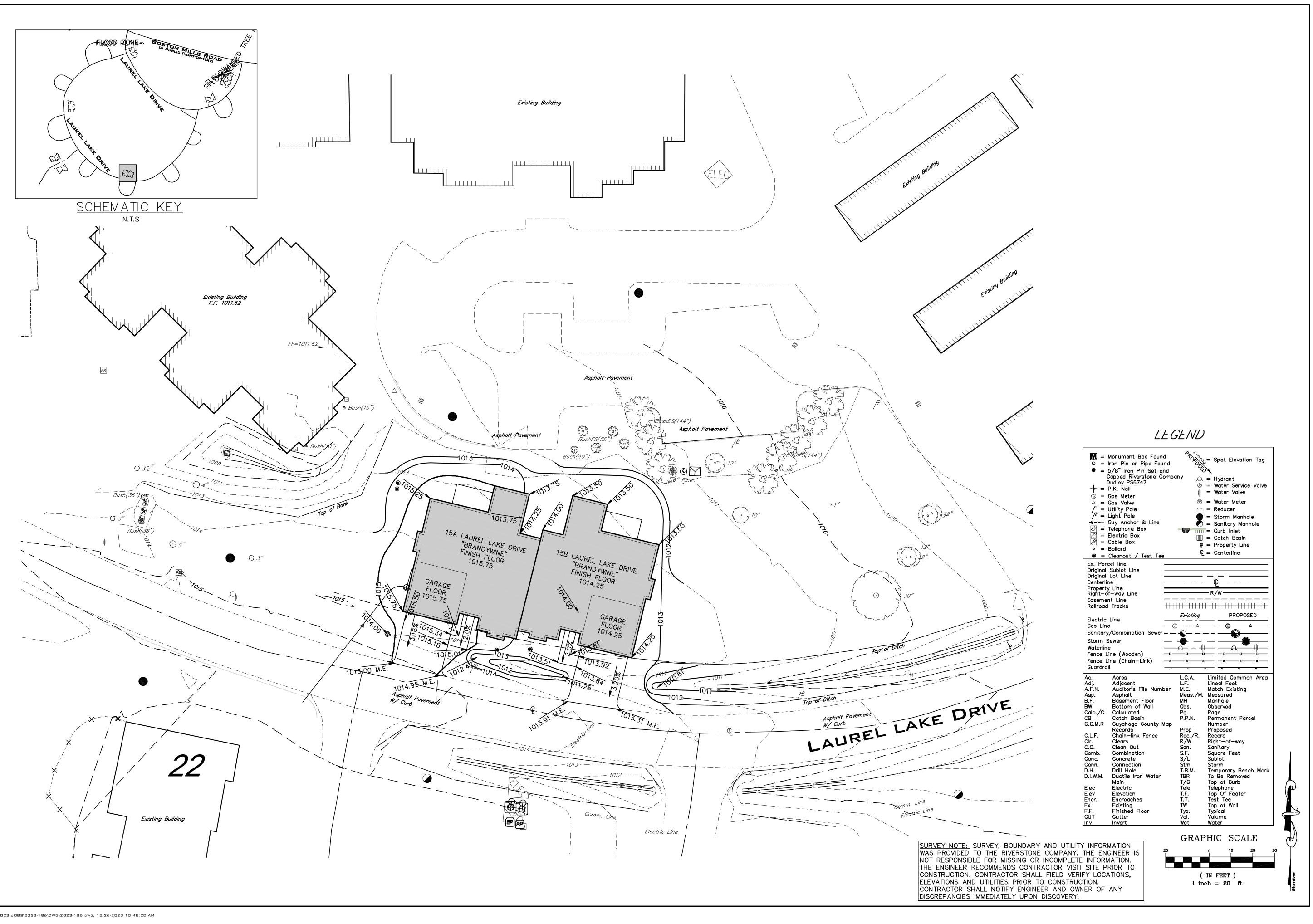
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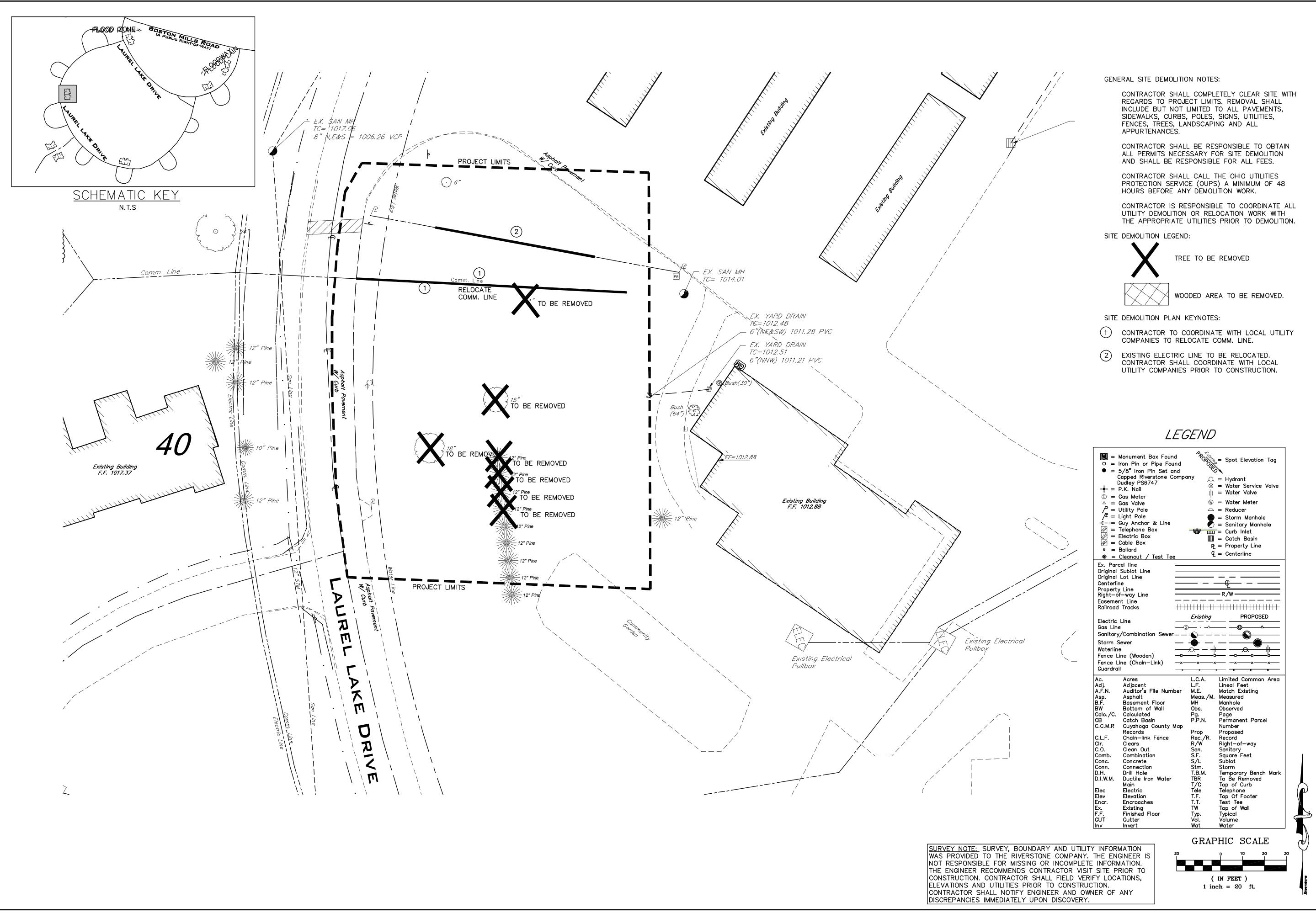
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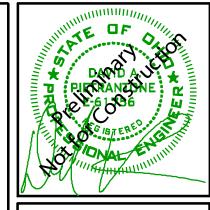
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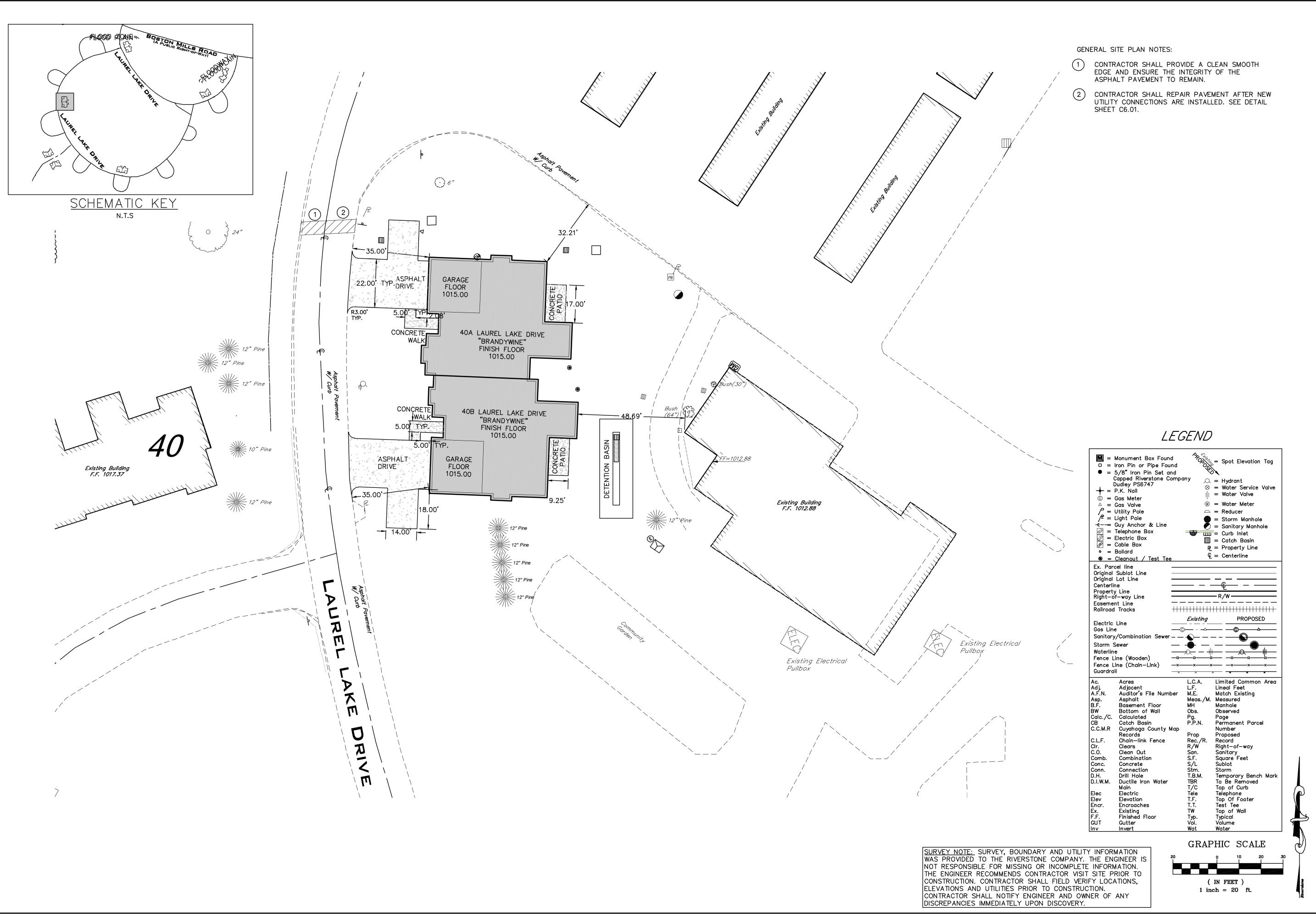
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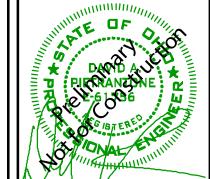
SITE DEMOLITION PLAN



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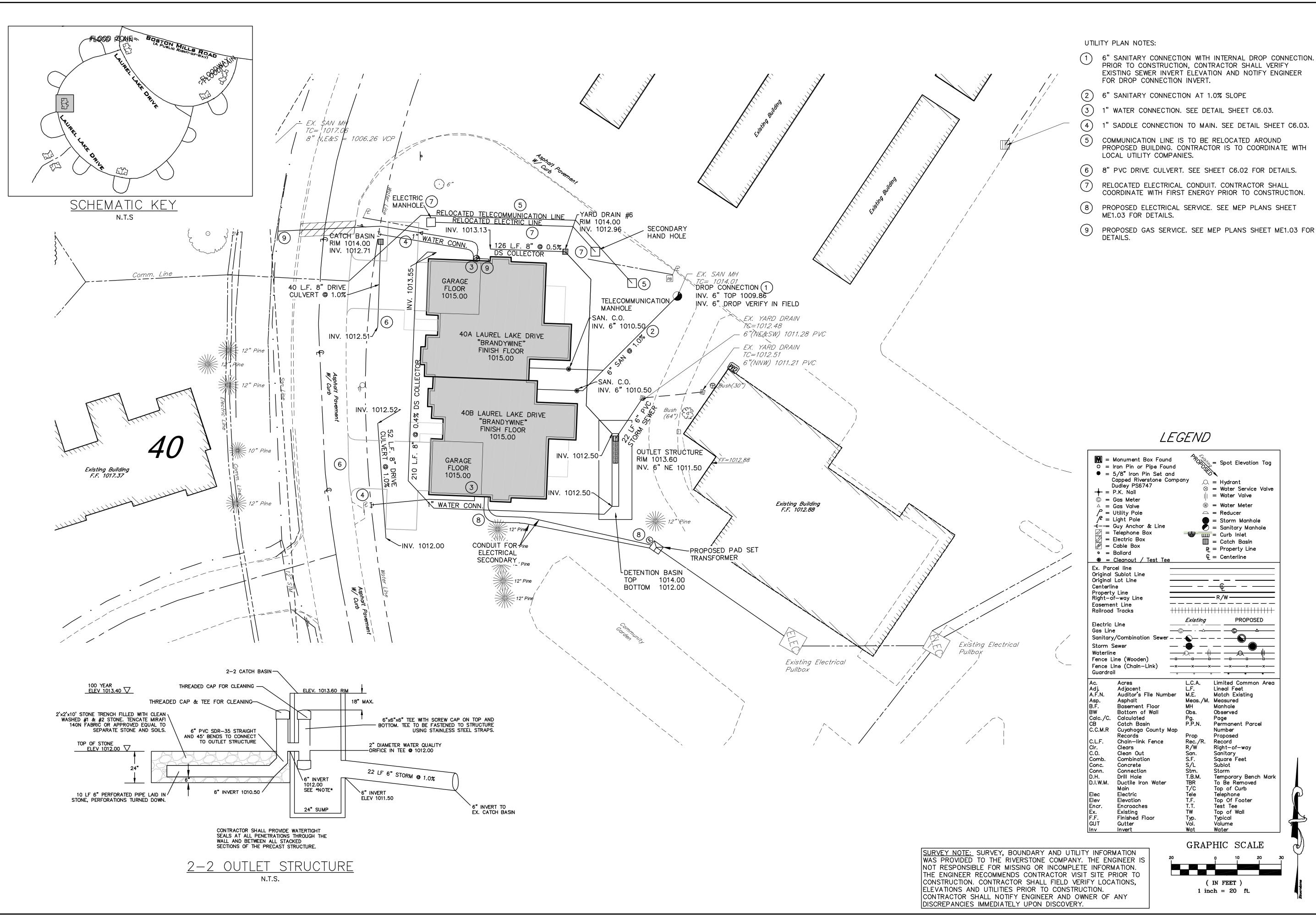


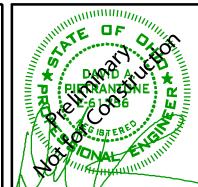
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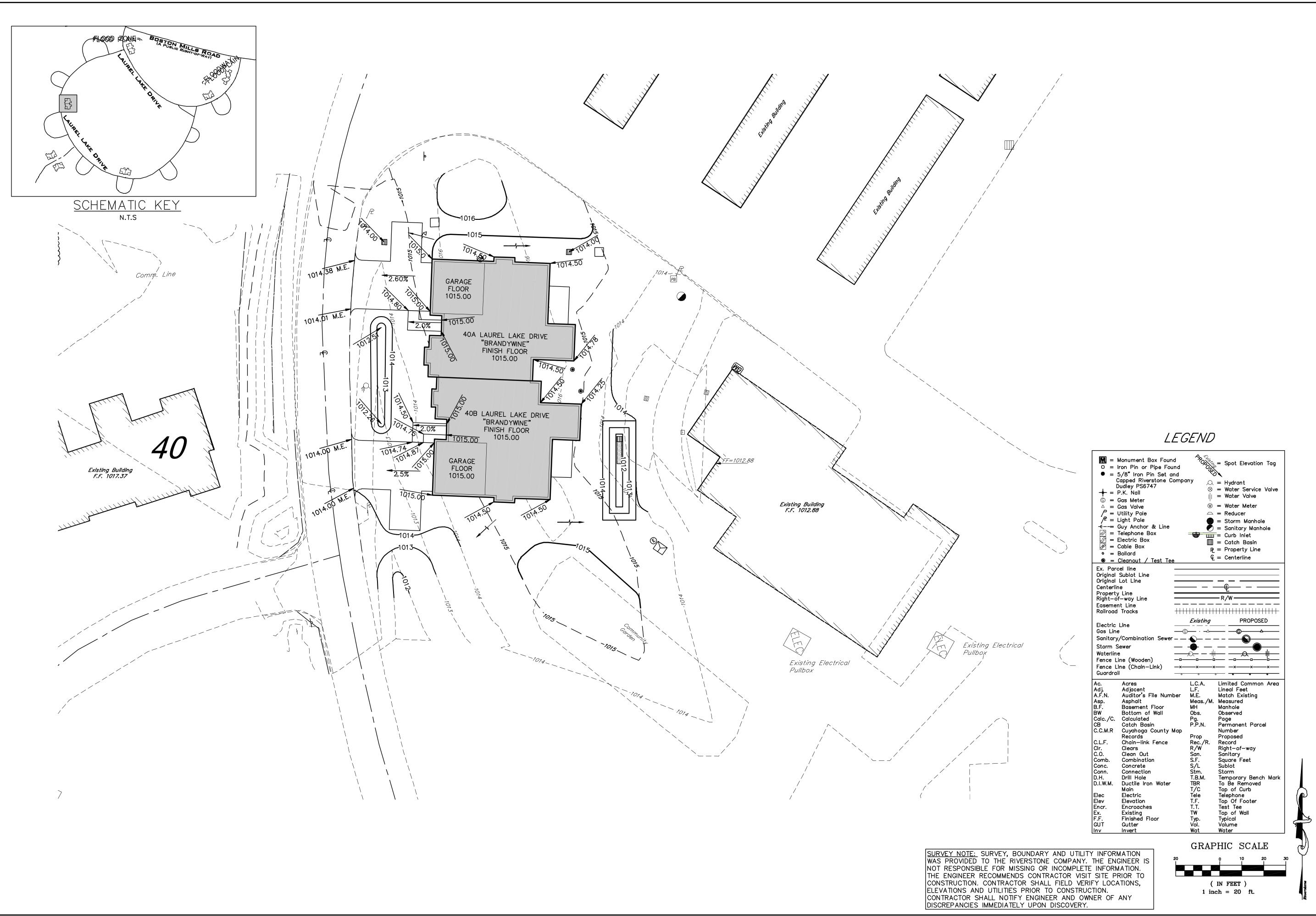
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Utilities Protection Service fore you

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Outilities Protection Service

OGPUPS (AGE)

Ohlo Oil & Gas Producers Underground Protection Service

C5.04



GENERAL SITE DEMOLITION NOTES:

CONTRACTOR SHALL COMPLETELY CLEAR SITE WITH REGARDS TO PROJECT LIMITS. REMOVAL SHALL INCLUDE BUT NOT LIMITED TO ALL PAVEMENTS, SIDEWALKS, CURBS, POLES, SIGNS, UTILITIES, FENCES, TREES, LANDSCAPING AND ALL APPURTENANCES.

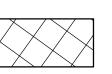
CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS NECESSARY FOR SITE DEMOLITION AND SHALL BE RESPONSIBLE FOR ALL FEES.

CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE (OUPS) A MINIMUM OF 48 HOURS BEFORE ANY DEMOLITION WORK.

CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UTILITY DEMOLITION OR RELOCATION WORK WITH THE APPROPRIATE UTILITIES PRIOR TO DEMOLITION

SITE DEMOLITION LEGEND:

TREE TO BE REMOVED

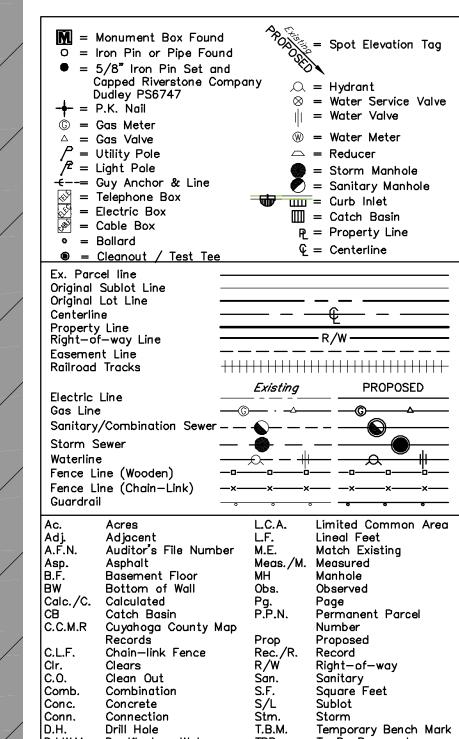


WOODED AREA TO BE REMOVED.

SITE DEMOLITION PLAN KEYNOTES:

1) EXISTING 24" STORM SEWER TO BE RELOCATED.

LEGEND



TBR T/C Tele T.F. T.T.

Тур.

Temporary Bench Mark

To Be Removed

Top of Curb

Top Of Footer

Top of Wall

Typical Volume

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.



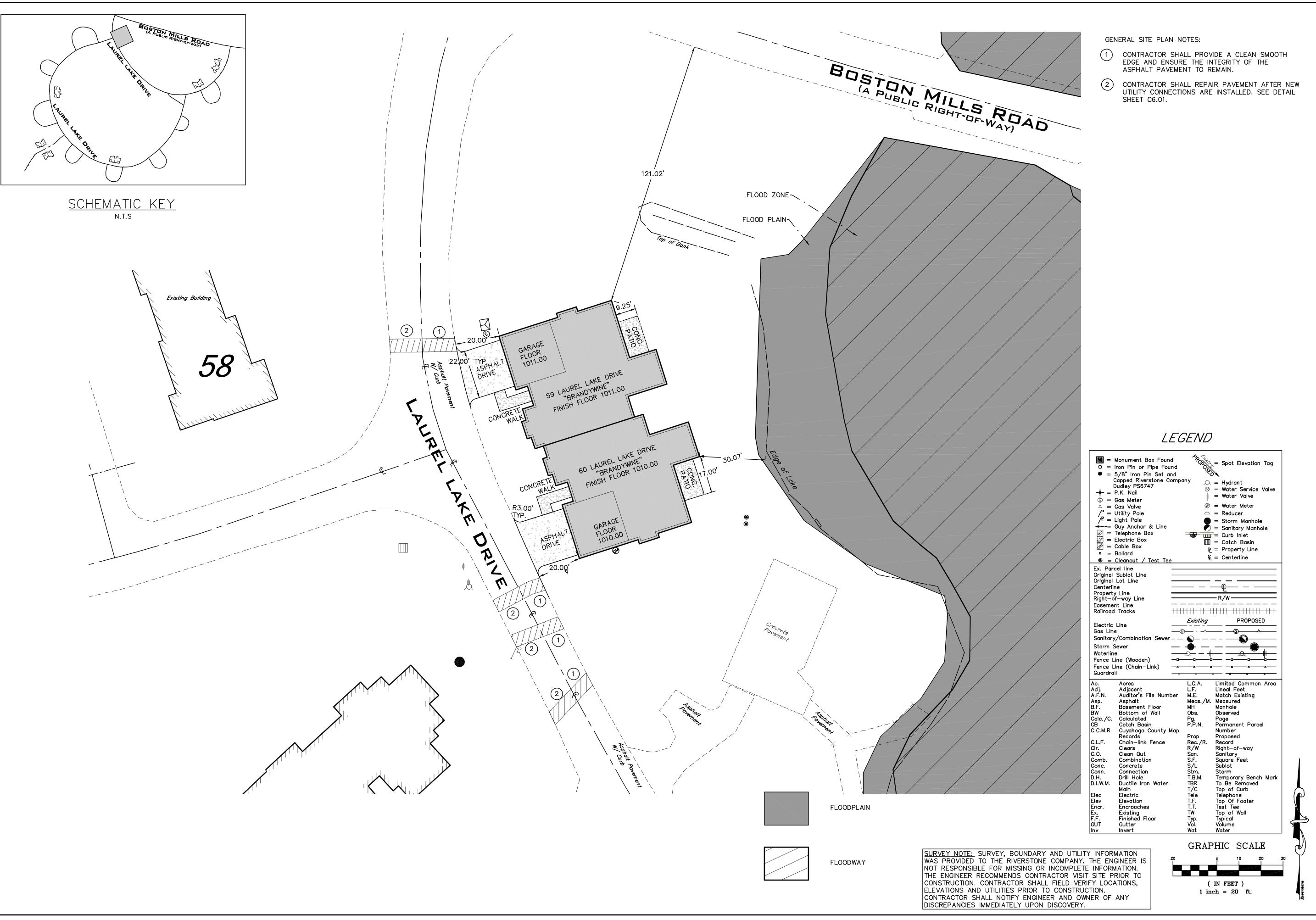
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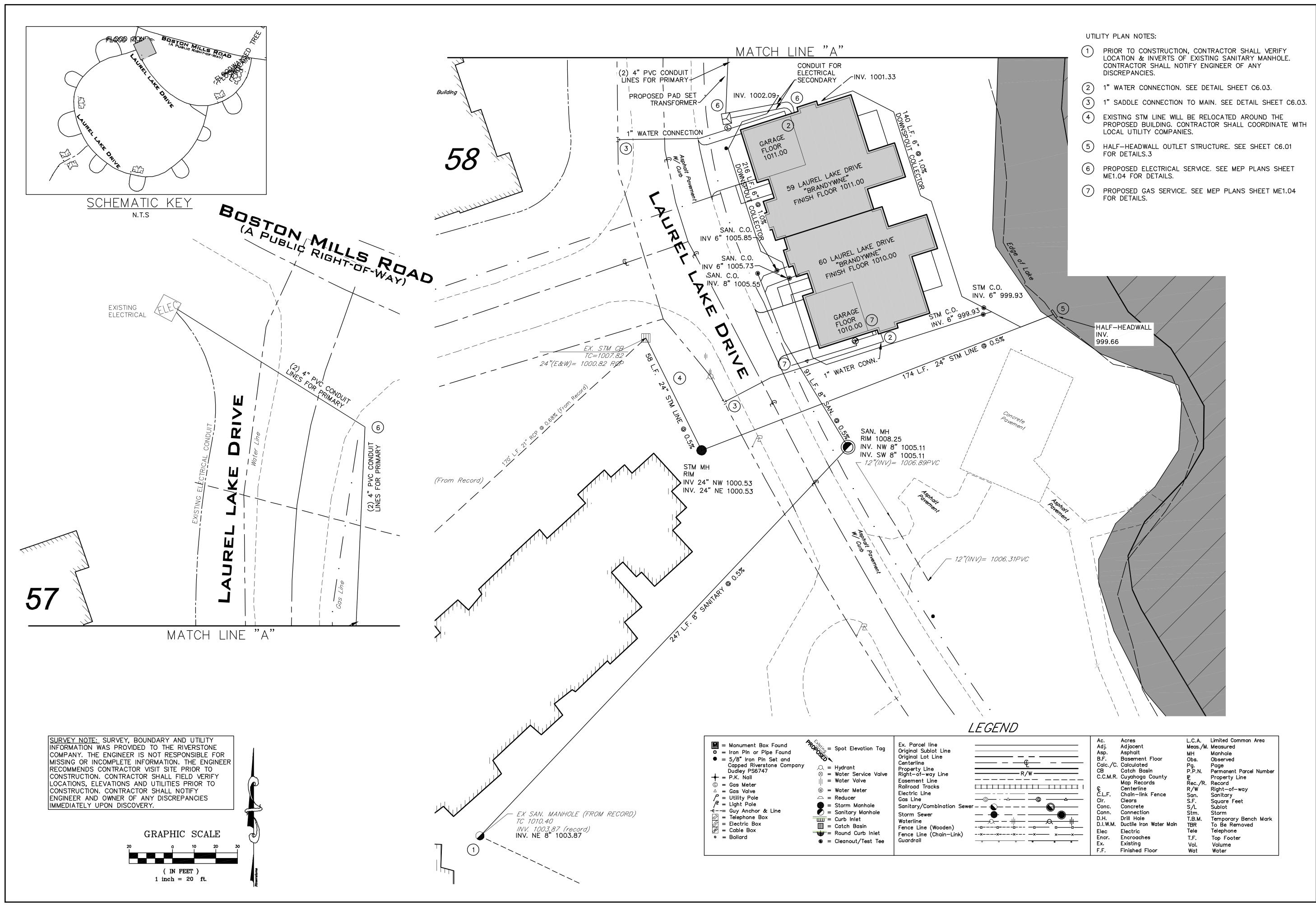
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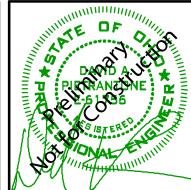
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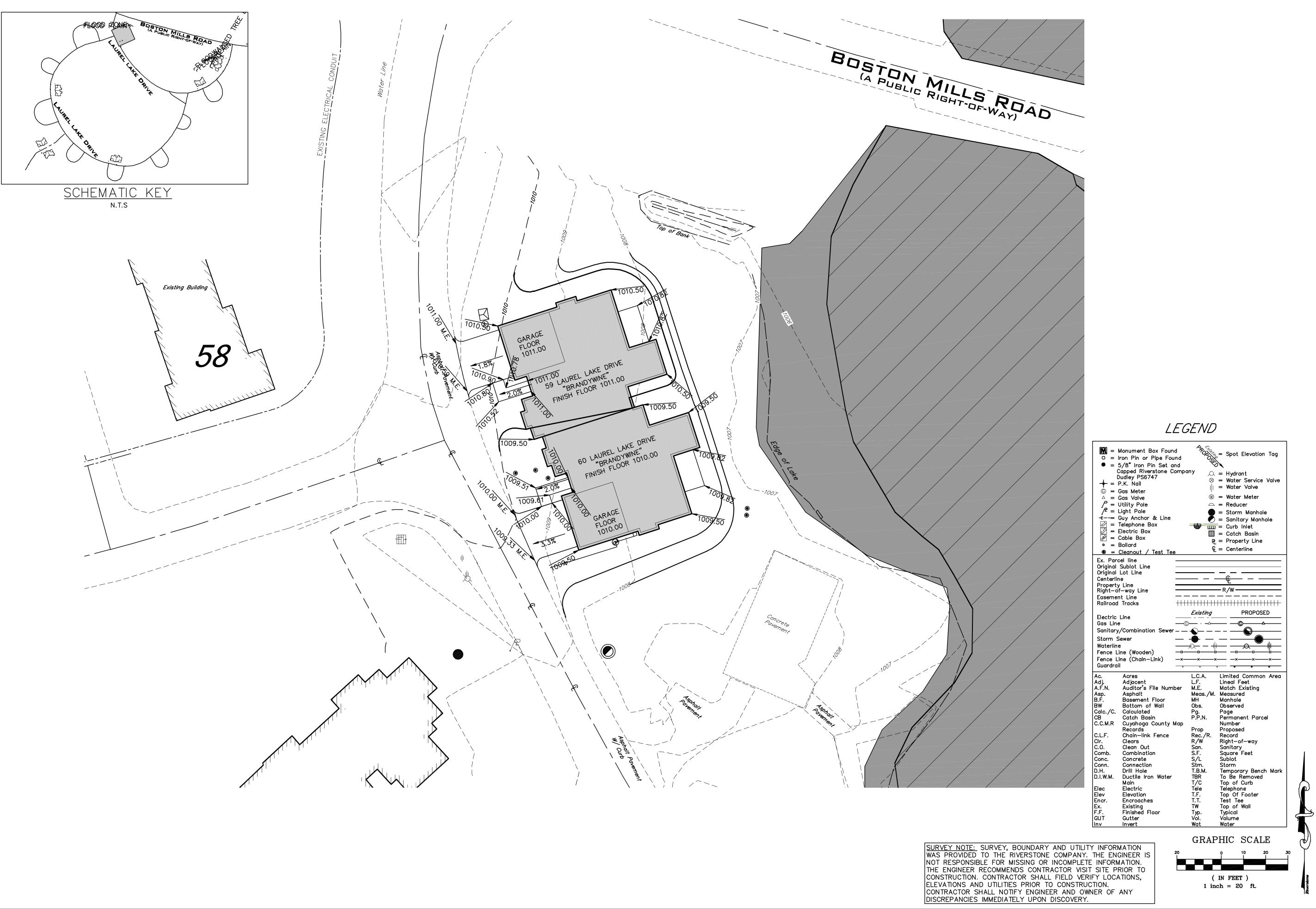
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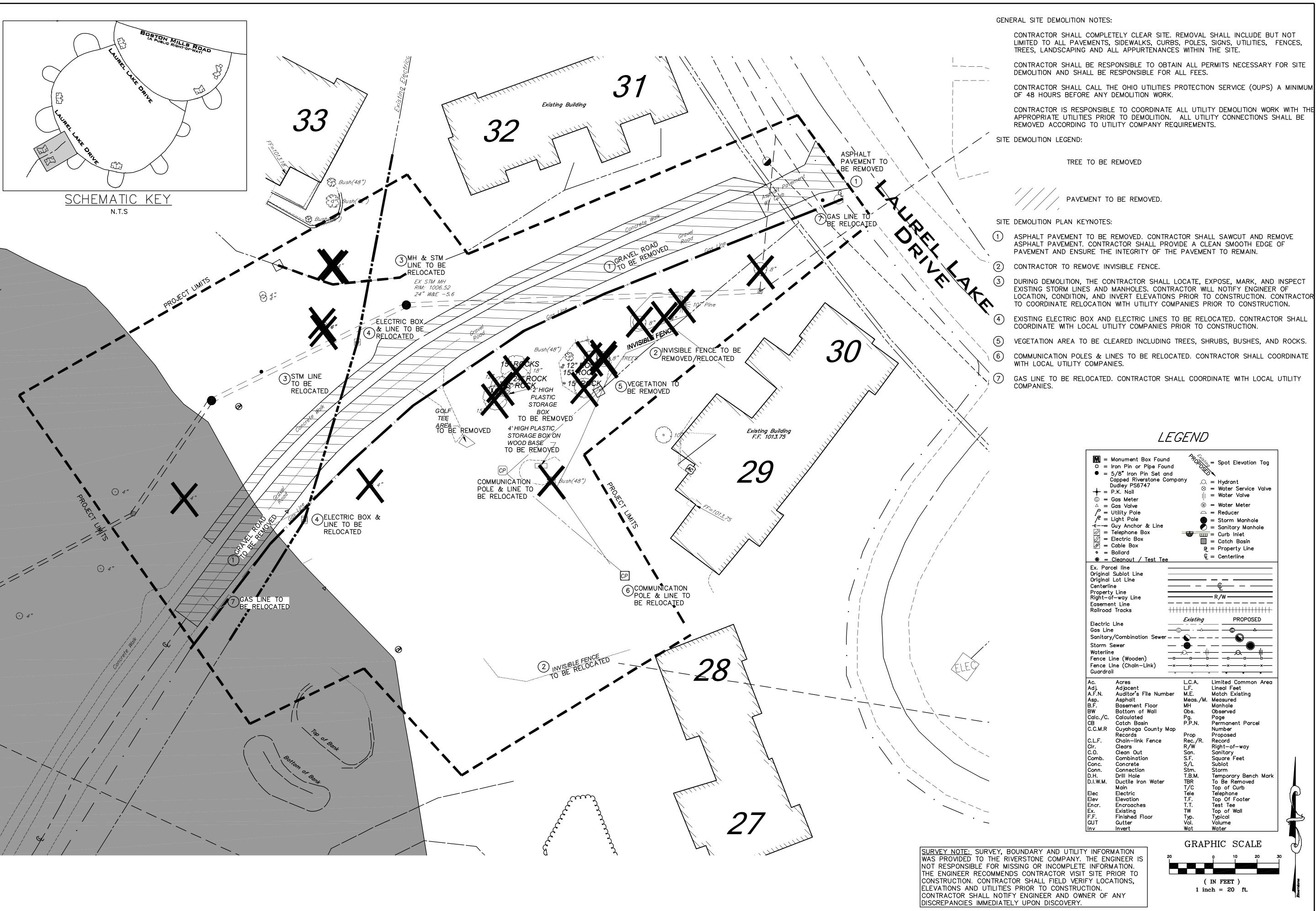
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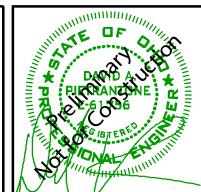
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TE DEMOLITION PLAN - BUILDING 8&9

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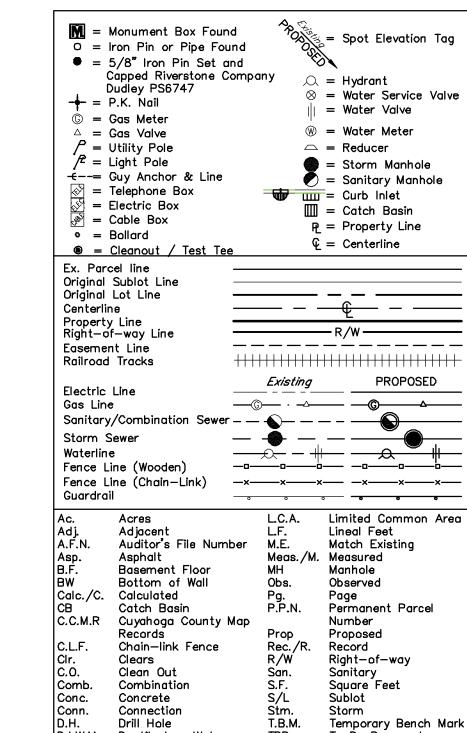
OGPUPS (



UTILITY PLAN NOTES:

- 1 EONE 1.25" LOW PRESSURE SYSTEM SANITARY CONNECTION. CONTRACTOR SHALL MAKE THE CONNECTION AND EXTEND 1.25" CONNECTION TO 5' OUTSIDE OF THE PROPOSED BUILDING. CONTRACTOR SHALL INSTALL LATERAL ASSEMBLY AND MARK LOCATION IN THE FIELD. CONTRACTOR SHALL INSTALL SANITARY CONNECTION PER MANUFACTURER RECOMMENDATIONS.
- EONE LOW PRESSURE SANITARY SEWER SYSTEM TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. LOW PRESSURE SANITARY SEWER SHALL BE HDPE SDR 11.
- 1" WATER CONNECTION TO BUILDING. 1" SADDLE CONNECTION TO MAIN.
- CONTRACTOR SHALL DEFLECT 8" WATERLINE AS NEEDED WITHIN MANUFACTURER'S RECOMMENDATION TO OBTAIN A 216' RADIUS.
- PROPOSED ELECTRICAL SERVICE. SEE MEP PLANS SHEET ME1.05 FOR DETAILS.
- PROPOSED GAS SERVICE. SEE MEP PLANS SHEET ME1.05
- RELOCATED TELECOMMUNICATIONS CONDUIT. CONTRACTOR SHALL COORDINATE WITH TELECOMMUNICATIONS PROVIDER PRIOR TO CONSTRUCTION.
- RELOCATED ELECTRICAL CONDUIT, CONTRACTOR SHALL COORDINATE WITH HUDSON PUBLIC POWER PRIOR TO CONSTRUCTION.

LEGEND



Sanitary

Sublot

TBR T/C Tele T.F. T.T.

Тур.

Square Feet

Temporary Bench Mark

To Be Removed Top of Curb

Top Of Footer

Top of Wall

Typical Volume

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.



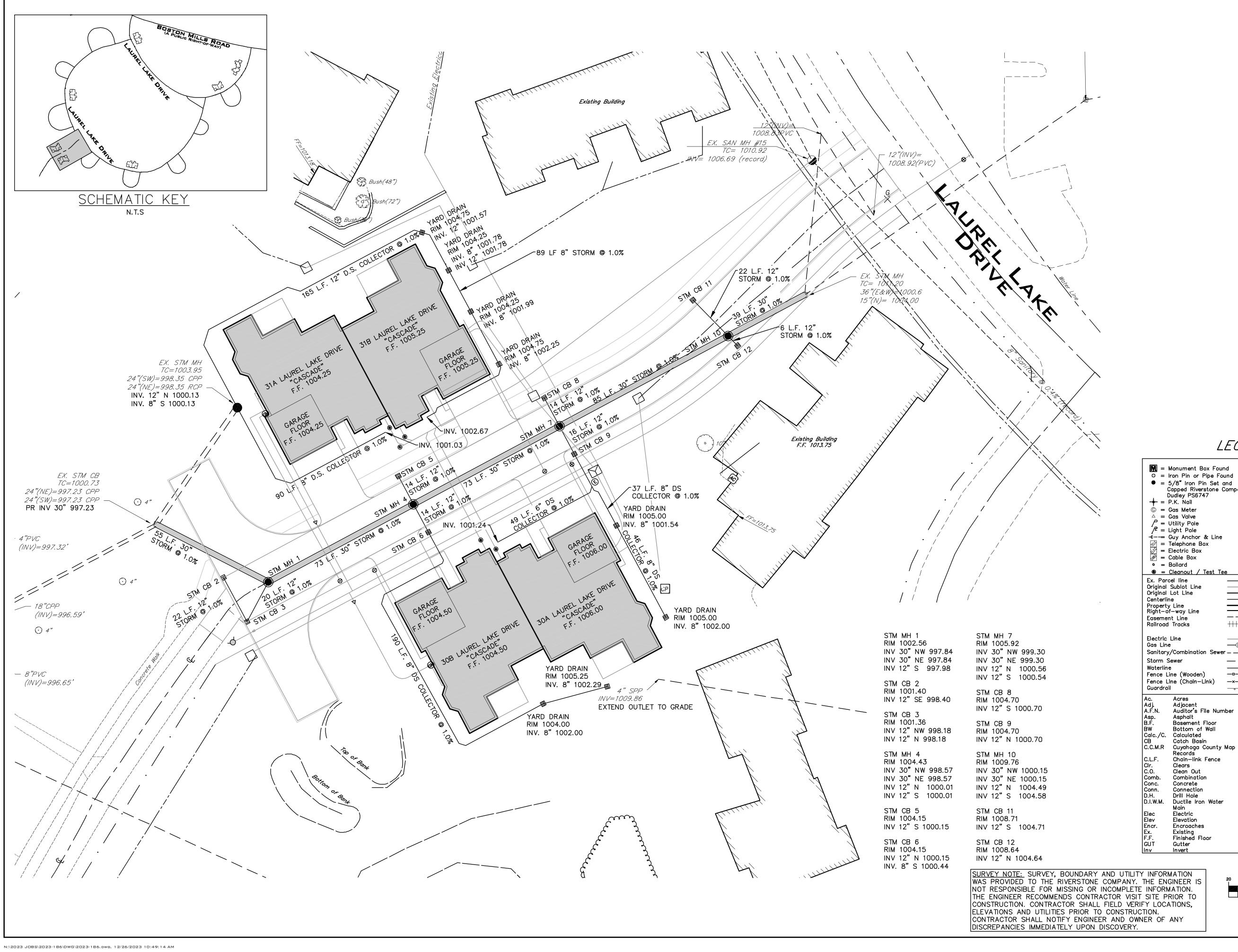
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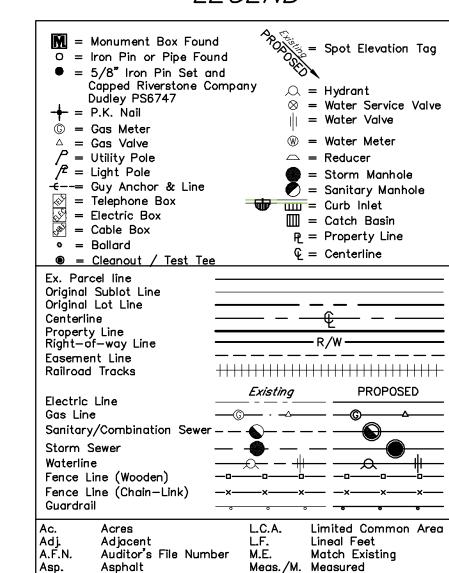
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Rec./R. R/W San. S.F. S/L Stm. T.B.M. Right-of-way Sanitary Square Feet Sublot Temporary Bench Mark TBR T/C Tele T.F. T.T. To Be Removed Top of Curb Telephone Top Of Footer Top of Wall Тур. Typical Volume

Manhole

Number

Record

Proposed

Observed

Permanent Parcel

Obs.

Pg. P.P.N.

Prop

(IN FEET) 1 inch = 20 ft.

GRAPHIC SCALE

OGPUPS (

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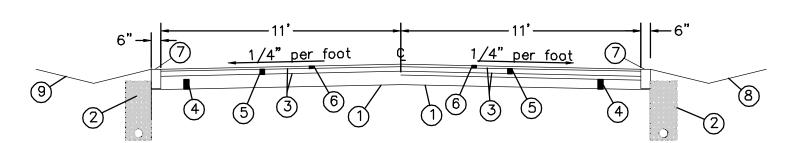
C7.06

8" REINFORCED CONCRETE ODOT ITEM 451 W/ 6" X 6" W4.0 ROADWAY WIRE MESH -----6" SUBBASE ODOT ITEM 304 8" REINFORCED CONCRETE

DRIVE AND APRON

4" PLAIN CONCRETE ODOT ITEM 452 — 4" SUBBASE ODOT ITEM 304 **⋄** ▷ △ 199499492492492

CONCRETE SIDEWALK REPLACEMENT/NEW



- ODOT ITEM 204 SUBGRADE COMPACTION
- ODOT ITEM 605 6" PERFERATED PVC UNDERDRAIN 707.41
- ODOT ITEM 407 TACK COAT
- (4) ODOT ITEM 304 8" AGGREGATE BASE
- ODOT ITEM 304 8" AGGREGATE BASE
- ODOT ITEM 402 3 1/2" ASPHALT INTÉRMEDIATE COURSE
- (6) ODOT ITEM 404 1 1/2" ASPHALT SURFACE COURSE
- ODOT ITEM 609 FLUSH CONCRETE CURB
- ODOT ITEM 659 SEEDING AND MULCHING ITEM 653 3" TOPSOIL FURNISHED AND PLACED

3/8" DIAMETER 7X19 GALVANIZED ANCHOR 4" TO 6" ~GALVANIZED WIRE

ANCHOR CABLE DETAIL

A MINIMUM OF TWO (2) PROOF ROLLINGS WILL BE REQUIRED AS DIRECTED BY THE

MOISTURE CONTENT ADJUSTMENT METHODS USED AT THE TIME OF PROOF ROLLING

ENGINEER BEFORE PAVING. THE FIRST PROOF ROLLING SHALL BE PERFORMED

GRADING HAS BEEN COMPLETED. AFTER FINE GRADING, JUST PRIOR TO PAVING,

TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHERE THIS

DIRECTED BY THE ENGINEER. THE MINIMUM EQUIPMENT SHALL CONSIST OF A

OPERATION SHOWS THE SUBGRADE TO BE UNSTABLE OR TO HAVE NON-UNIFORM

SINGLE UNIT, TANDEM AXLE DUMP TRUCK CAPABLE OF BEING LOADED TO 30,000

POUND AXLE LOAD, 60,000 POUND GVW. TIRE PRESSURE SHALL BE MAINTAINED

SHALL BE UNACCEPTABLE FOR PAVING. ANY AREA PERMITTING THE TEST VEHICLE

TIRES TO LEAVE A GROOVE OF ZERO (0) TO ONE-HALF (1/2) INCH DEEP SHALL

BE ACCEPTABLE. ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A

GROOVE OF ONE-HALF (1/2) INCH TO ONE (1) INCH DEEP SHALL BE AT THE

AT 90 PSI OR AS SPECIFIED UNDER SECTION 203.14 OF ODOT SPECIFICATIONS.

ANY AREA PERMITTING TIRES TO LEAVE A GROOVE OF ONE (1) INCH OR MORE

AFTER THE INSTALLATION OF ALL UNDERGROUND IMPROVEMENTS AND ROUGH

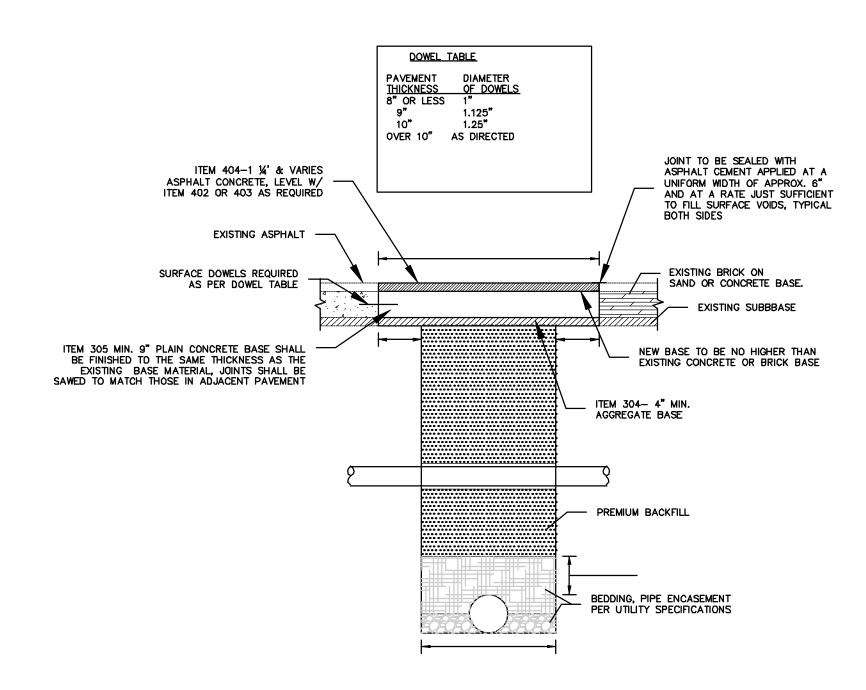
THE SUBGRADE SHALL BE PROOF ROLLED AGAIN. A PROOF ROLLING SHALL CONSIST OF TRAVELING THE ENTIRE AREA OF THE PREPARED SUBGRADE WITH A

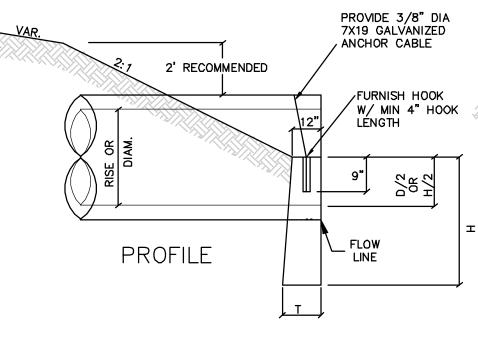
FULLY LOADED TANDEM AXLE DUMP TRUCK PROVIDED BY THE CONTRACTOR.

STABILITY, THE CONTRACTOR SHALL CORRECT THE UNSTABLE AREAS AS

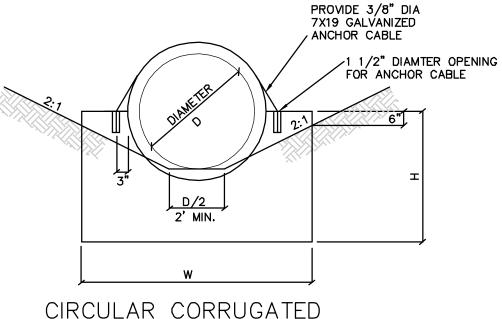
SHALL CONFORM TO SECTION 203.11 OF THE OHIO DEPARTMENT OF

TYPICAL ASPHALT SECTION WITH FLUSH CONCRETE CURB





H	HEADWALL FOR CORRUGATED METAL & PLASTIC PIPE					
	CIRCULAR					
D W H T CONC. C.Y.						
12"	2'-0"	3'-0"	12"	.21		
15"	2'-6"	3'-2"	12"	.27		
18"	3'-0"	3'-3"	12"	.33		
21"	3'-6"	3'-4"	12"	.39		
24"	4'-0"	3'-6"	12"	.46		



CIRCULAR CORRUGATED METAL OR PLASTIC PIPE

CUT GALVINIZED ANCHOR CABLE TO LENGTH REQUIRED WRAP GALVINIZED ANCHOR CABLE ONE TIME COMPLETLY AROUND THE CIRCUMFRENCE OF THE CONDUIT.

FORM OR DRILL 1 1/2" DIAMETER OPENINGS FOR ANCHOR CABLE AT LOCATIONS SHOWN. ALTERNATIVELY, PLACE ANCHOR CABLE IN WET CONCRETE AT THE DIMENSIONS SHOWN ABOVE TO SECURE CONDUIT TO HEADWALL. A MINIMUM 4" HOOK LENGTH AT THE ENDS OF THE ANCHOR CABLE ARE REQUIRED.

FILL ANY OPENINGS MADE FOR ANCHOR CABLES WITH GROUT AFTER ANCHOR CABLES ARE PLACED.

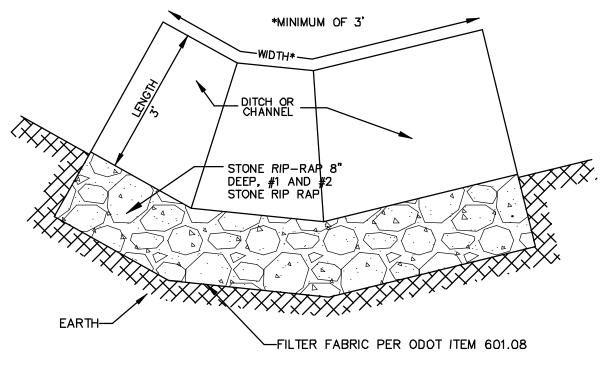
HEADWALL CONCRETE SHALL BE CLASS C.

ANCHOR CABLE FOR ANCHORING METAL OR PLASTIC PIPE SHALL MEET ASTM A 603. WIRE ROPE CLIP SHALL BE GALVINIZED ACCORDING TO ASTM A 153.

CAST IN PLACE HALF HEADWALL DETAIL

PROOF ROLL

ENGINEER'S DISCRETION.



OUTLET PIPE RIP RAP DETAIL

GENERAL NOTES

- 1.) A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE CONTRACTOR SHALL BE HELD PRIOR TO START OF ANY WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CITY ENGINEER PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.
- 2.) ANY AND ALL CHANGES IN PLAN QUANTITIES OR MATERIALS SHALL BE APPROVED IN WRITING BY THE DEVELOPER PRIOR TO INCORPORATION IN THE WORK.
- EARTHWORK QUANTITIES: A) ALL STUMPS, TREES AND OTHER CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE
- CONTRACTOR OFF-SITE.
- B) THE CONTRACTOR SHALL PLACE AND COMPACT ALL SUITABLE FILL MATERIAL EXCAVATED DURING HIS CONSTRUCTION OPERATIONS WITHIN THE FILL AREAS DESIGNATED ON THE GRADING PLAN AND/OR AS DIRECTED BY THE DEVELOPER AND/OR HAULED OFF-SITE AT THE DEVELOPER'S
- C) NO DISPOSAL SITE WITHIN THE PROJECT LIMITS SHALL BE UTILIZED.
- 4.) SEEDING AND MULCHING: SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISHED GRADING IN ACCORDANCE WITH ITEM 659 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- 5.) ALL TRENCHES IN PAVED AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIALS FROM THE TOP OF THE TRENCH BEDDING. BACKFILL TO BE MECHANICALLY COMPACTED. SLAG NOT ALLOWED.
- 6.) ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM
- 7.) PRIOR TO CONNECTION CONSTRUCTION, CONTRACTOR TO VERIFY LOCATIONS, SIZE AND DEPTH OF EXISTING SEWER & WATER TIE-INS.

SUMMIT PETROLEUM INC.

TWINSBURG, OHIO 44087

9345 RAVENNA ROAD

PH: (330) 487-5494

8.) THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

OHIO UTILITIES PROTECTION SERVICE 106 WEST RYEN - ROOM 427 YOUNGSTOWN, OHIO 44051 PH: (800) 362-2764

SUMMIT COUNTY DEPARTMENT OF SANITARY SEWER SERVICES 1180 S MAIN STREET SUITE 201 AKRON, OHIO 44301 PH: (330) 926-2400

MCI (VERIZON) 120 RAVINE STREET AKRON, OHIO 44303 PH: (330) 329-5495

CITY OF HUDSON DEPARTMENT DOMINION ENERGY 320 SPRINGSIDE DRIVE, SUITE 320 OF PUBLIC WORKS 1769 GEORGETOWN ROAD AKRON, OHIO 44333 PH: (877) 542-2630 HUDSON, OHIO 44236 PH: (330) 342-1750

> CENTURYLINK 4000 CHESTER AVENUE CLEVELAND, OHIO 44102 PH: (216) 906-6284

THE LOCATION OF UNDERGROUND UTILITIES ARE PLOTTED ACCORDING TO THE INFORMATION FURNISHED BY THE UTILITIES CONCERNED AND THE ENGINEER DOES NOT GUARANTEE THE ACCURACY THEREOF.

- 9.) ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT, THE STANDARD SPECIFICATIONS OF THE CITY OF HUDSON AND THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL **SPECIFICATIONS**
- LATEST EDITION, EXCEPT WHERE SPECIFICALLY SPECIFIED IN THESE PLANS. 10.) IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL
- 11.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING AND ALL PERMITS REQUIRED FOR THIS PROJECT.
- 12.) THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED ABOVE IN ACCORDANCE WITH SECTION
- 153.64 OF THE OHIO REVISED CODE AND AS OUTLINED IN PROJECT SPECIFICATIONS. 13.) ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE CITY OF HUDSON AND AT ALL TIMES BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.
- 14.) ALL SANITARY SEWER CONNECTIONS SHALL BE 6" DIAMETER V.C.P. C-700 E.S. w/PREMIUM JOINTS (OR THERMOPLASTIC AS SPECIFIED) @ 1.0% MIN. (INCLUDING TEST TEE LOCATED AT R/W - SEE DETAIL).
- 15.) ALL EXISTING CONNECTIONS SHALL BE TESTED WITH DYE AND CAMERA BEFORE TYING IN FOR USE WITH
- 16.) COLOR DVD VIDEO OF THE SANITARY AND STORM SEWERS (8" AND GREATER) SHALL BE GIVEN TO THE CITY OF HUDSON DIVISION OF WATER POLLUTION CONTROL.
- 17.) COST OF REMOVAL, FILLING, ABANDONING AND DISPOSAL OF EXISTING SEWERS & CONNECTIONS TO BE INCLUDED IN PRICES BID UNDER OTHER ITEMS (OF SPECIFICATIONS) AND NO ADDITIONAL
- COMPENSATION WILL BE MADE. 18.) TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY THE CONTRACTOR. 19.) ALL SANITARY AND STORM MAIN LINE SEWERS & HOUSE CONNECTIONS SHALL HAVE PREMIUM JOINTS.
- 21.) FOR CURB INLET MANHOLE, BRICK MAY BE USED TO FIT CASTING.

20.) FLEXIBLE GASKETS SHALL BE PROVIDED AT ALL SANITARY AND STORM MANHOLES.

ENVIRON. IMPACT NOTES

- 1.) IF, DURING THE COURSE OF CONSTRUCTION, EVIDENCE OF ANY DEPOSIT OF HISTORICAL AND/OR ARCHAEOLOGICAL INTEREST IS FOUND, CEASE OPERATIONS AFFECTING THE FIND AND NOTIFY THE OHIO HISTORIC PRESERVATION OFFICE AT (614) 297-3470. NO FURTHER DISTURBANCE OF THE DEPOSITS SHALL OCCUR UNTIL THE CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER THAT HE OR SHE MAY PROCEED. THE OWNER WILL ISSUE THE NOTICE TO PROCEED ONLY AFTER THE STATE OHIO OFFICIAL HAS SURVEYED THE FIND AND MADE SUCH A DETERMINATION.
- ACCESS FOR EMERGENCY VEHICLES MUST BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING LOCAL ACCESS TO ALL RESIDENCES AND BUSINESSES, AND TO PROVIDE WHATEVER TEMPORARY MATERIALS ARE NECESSARY TO PROVIDE A SAFE, ADEQUATE DRIVE SURFACE.
- 4.) NO MANHOLE OR SEWER EXCAVATION WILL BE LEFT OPEN AWAITING CONNECTION OR REMOVAL AT A LATER DATE BY THE CONTRACTOR'S FORCES, OR OTHERS, BUT SHALL BE TEMPORARILY BACKFILLED AND RESURFACED, IF APPLICABLE, WITH A TEMPORARY PAVEMENT PASSABLE TO TRAFFIC.
- 5.) NO MORE THAN 200 TO 300 FEET OF SEWER TRENCH SHALL REMAIN OPEN AT ONE TIME. MATERIALS EXCAVATED DURING TRENCHING SHALL BE PILED ON THE UPHILL SIDE OF THE TRENCH.
- 6.) STOCKPILED TOPSOIL AND FILL MATERIALS SHALL BE PROTECTED WITH EROSION CONTROL BARRIERS OR TEMPORARY SEEDING. EXCESS SOIL THAT IS STOCKPILED MUST BE EITHER REMOVED OR REGRADED WITHIN 15 DAYS OF THE COMPLETION OF CONSTRUCTION.
- 7.) IF TREE REMOVAL IS NECESSARY, TREES SHALL BE FELLED IN A MANNER THAT AVOIDS DAMAGE TO ADJACENT REMAINING TREES. WHERE ROOT DAMAGE CANNOT BE AVOIDED. PRUNING AND PAINTING AS APPROPRIATE TO COMPENSATE FOR DAMAGE WILL BE DONE BY AN AUTHORIZED ARBORIST.



2023-186

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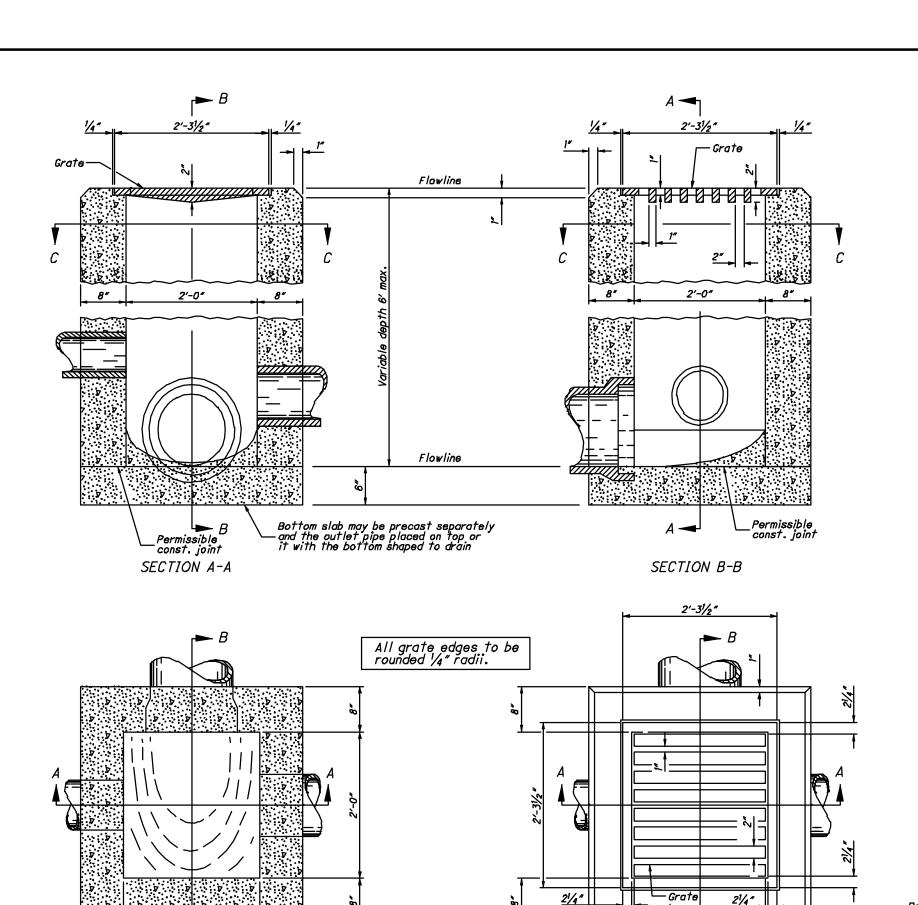
ISSUED FOR: FOR BID 12/26/2023

NOT FOR CONSTRUCTION

Oil & Gas Producers Underground Pro Call (614) 715-2984 or 811

OGPUPS 🕰

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CATCH BASIN No. 2-2B

MAXIMUM

TRENCH WIDTH

AT TOP OF PIPE

SEE NOTE 1

BACKFILL

CLASS 'B'

MAXIMUM TRENCH AT TOP OF PIPE SHALL BE O.D.+24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D.; O.D.+30" FOR PIPE LARGER

ALL TRENCH EXCAVATION SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OHIO STATE INDUSTRIAL COMMISSION (OSIC) AND THE

OF BACKFILL WILL BE PERMITTED. BACKFILL SHALL BE COMPACTED TO 100% OF MAXIMUM LABORATORY DRY DENSITY PER ASTM D 698.

ALL BACKFILL MATERIAL USED UNDER ANY PAVEMENTS SHALL BE PREMIUM BACKFILL PLACED FROM THE INITIAL ONE FOOT OVER THE TOP OF

UTILITIES, TO PREVENT FLOTATION AND ENTRY OF FLOWABLE FILL INTO ANY OTHER AREAS, TO THE SUBGRADE. ALL OTHER AREAS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND SHALL BE TAMPED WITH MACHINE MOUNTED TAMPING EQUIPMENT. NO FLOODING, JETTING OR PUDDLING

ALL BEDDING SHALL BE CLASS 'B' EXCEPT AS STATED IN NOTE 6 OR OTHERWISE NOTED ON THE PLANS. BEDDING LIMITS FOR R.C.P.AND D.I.P.

BEDDING FOR DUCTILE IRON PIPE USED FOR WATERLINE OR FORCE MAIN SHALL BE CLASS 'C' EXCEPT WHEN INSTALLED IN ROCK AND UNDER

INSTALL A MAGNETIC DETECTOR TAPE 12" ABOVE THE CENTERLINE OF NON-METALLIC WATERLINES OR SANITARY FORCE MAINS.

TRENCH & BEDDING DETAILS

PAVEMENT OR STRUCTURES, IN WHICH CASE, BEDDING SHALL BE CLASS 'B' OR AS NOTED ON THE PLANS.

SEE NOTE 3

SECTION C-C

- NO.56, NO.57, NO.6,

NO.67 OR NO.68

(SEE NOTE #4)

LIMESTONE

1/3 O.D.

LIMITS OF

BEDDING

THAN 24" I.D. TO 54" I.D.; AND O.D.+48" FOR PIPE SIZES 60" AND OVER.

FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

SHALL BE TO THE PIPE SPRINGLINE.

SLAG BEDDING SHALL NOT BE USED.

MAXIMUM

TRENCH WIDTH

AT TOP OF PIPE

SEE NOTE 1

BACKFILL

SEE NOTE 3

CLASS 'A'

LIMITS OF

BEDDING

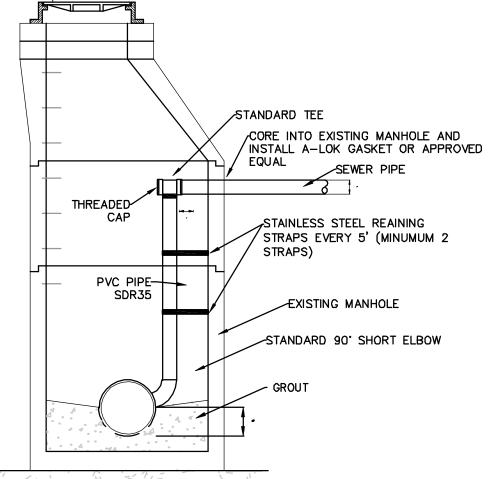
2500 P.S.I. CONC. CRADLE

NOTES CB-2-2B GRATE: Furnish a design essentially the same and equally as strong as the one shown (see Construction Information table), or meet the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans. Frame and Cover EJIW #1700 or Equal Grout with Mortar on the outside If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-4859-S or EJ No. 5110M3 (00511043) grates or approved equals. Place grate elevation 4" to 6" below normal ditch and return to normal 10" to 15" each side of inlet. CB-2-2C FRAME & GRATE: Where the catch basin is specified for use in a parking lot, Furnish Neenah No. R-1878-A5G or EJ No. V-5622 (45622010) frame and V-5622 (45622030) grate or approved equals. If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-3405 grate or EJ No. 5250M (00525031) grate or approved equals. On cast-in-place and precast units, provide a level surface on the catch basin 4" below the plan grate elevation for setting the frame and grate assembly. Provide a concrete apron to encase and secure the frame of a width not less than the thickness of the catch basin walls that the following was placed on or as shown in the plans. Slope apron to provide local depression. Eccentric Cone Top — Specified Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer. 12" Min. 16" Max. CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number. LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate. Bottom 6" Min.

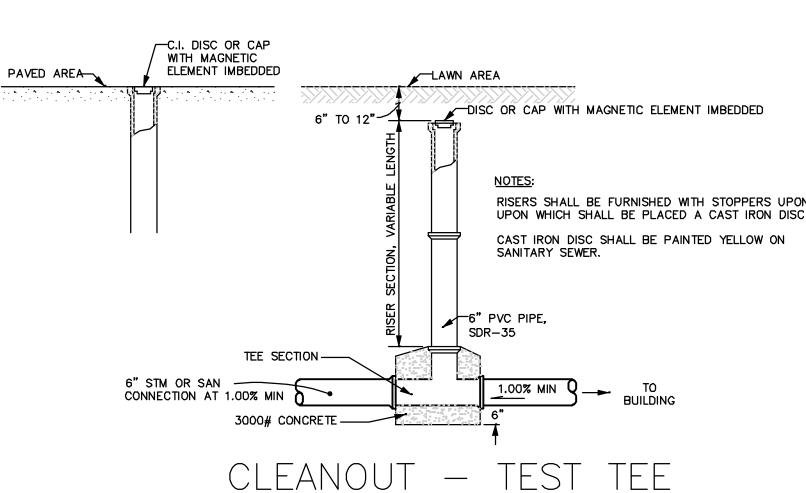
ALTERNATE

CONCRETE MANHOLE

─ Bedding as Specified, 6" Min.



INTERNAL DROP IN EXISTING MANHOLE



NOTES FOR STORM SEWERS

1.) THE FOLLOWING PIPES ARE APPROVED FOR THIS PROJECT A) 15" & UNDER - PVC SDR 35 PER ASTM D3034 (GASKETED) B) 15" & UNDER - POLYPROPYLENE MEETING ASTM F2764 (ONLY OUTSIDE ROADWAY AND ABOVE ROADWAY'S ANGLE OF REPOSE) C) 16" & GREATER - CONCRETE MEETING ASTM C76 CLASS IV

2.) ALL DOWNSPOUT COLLECTORS SHALL USE PUSH ON JOINTS.

3.) ALL DRIVE CULVERT WITH LESS THAN 2' OF COVER ABOVE THE TOP OF THE CULVERT SHALL BE EITHER CONCRETE PIPE MEETING ASTM C76. OR CONCRETE ENCASED PVC SDR 35 OR POLYPROPYLENE PIPE. DRIVE CULVERTS WITH GREATER THAN 2' OF COVER SHALL BE PIPE MATERIAL AS SPECIFIED FOR SEWERS AND PIPES.

3.) PIPE REQUIRES #57 LIMESTONE BACKFILL 12" OVER TOP OF PIPE

4.) CONTRACTOR SHALL INCLUDE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN BIDS.

5.) PRIOR TO THE ACCEPTANCE OF THE COMPLETED SEWER LINE, A MANDREL OF NOT LESS THAN NINETY-FIVE PERCENT (95% OF THE AVERAGE CALCULATED REFERENCE INTERNAL DIAMETER OF THE PIPE SHALL BE PULLED BY HAND FREELY THROUGH EACH SECTION OF SEWER PIPE NOT LESS THAN THIRTY (30) DAYS AFTER INSTALLATION AND FINAL BACKFILL.

NOTES FOR SANITARY SEWERS

1.) THE FOLLOWING PIPES ARE APPROVED FOR THIS PROJECT: A) V.C.P., C-700 ES w/PREM. JTS. (ASTM C425) (GASKETED) B) PVC SDR 35 (SEWER DEPTH LESS THAN 13') w/ASTM D3212 JOINTS (GASKETED) C) PVC SDR 26 (SEWER DEPTH 13' OR MORE) w/ ASTM D3212 JOINTS (GASKETED) D) PVC SCHEDULE 40 (WITH APPROVAL BY ENGINEER)

2.) ALL PIPES USED FOR THIS PROJECT MUST BE FROM MANUFACTURERS APPROVED BY THE SUMMIT COUNTY DEPARTMENT OF SANITARY SEWER SERVICES (DOSSS).

3.) ALL 6" SANITARY LATERAL CONNECTIONS SHALL BE AT A MINIMUM SLOPE OF 1.0%

4.) PIPE REQUIRES #57 LIMESTONE BACKFILL 12" OVER TOP OF PIPE.

4.) CONTRACTOR SHALL INCLUDE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN BIDS.

6.) ALL SANITARY SEWER TO BE C.P. AIR TESTED PER ASTM C-828-80

7.) ALL SANITARY SEWER SYSTEMS MUST PASS AN EXFILTRATION AND AN INFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM RATE OF INFILTRATION SHALL BE 100 GALLONS PER INCH DIAMETER OF SEWER PER MILE, PER DAY, FOR V.C.P. AND 50 GALLONS FOR PVC.

8.) PRIOR TO THE ACCEPTANCE OF THE COMPLETED SEWER LINE, A MANDREL OF NOT LESS THAN NINETY-FIVE PERCENT (95%) OF THE AVERAGE CALCULATED REFERENCE INTERNAL DIAMETER OF THE PIPE SHALL BE PULLED BY HAND FREELY THROUGH EACH SECTION OF SEWER PIPE NOT LESS THAN THIRTY (30) DAYS AFTER INSTALLATION AND FINAL



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CRATE TEXT: Cast the following text into the top of the grate: "DRAINS TO WATERWAY" and "DUMP NO WASTE"

WALLS: Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and handling without damage.

PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top

MINIMUM DEPTH: The minimum depth of CB No. 2-2B is the outside diameter (O.D.) of the outlet pipe plus 4". The minimum depth of CB No. 2-2C is the outside diameter (O.D.) of the outlet pipe plus 8". OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CRMS 611. PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-(2B or 2C).

CONSTRUCTION INFORMATION

Minimum weight of grate, 120 lbs.

CATCH BASIN OUTLET PIPE SIZE
2-2B, 2-2C 12" to 21" -Frame & Grate Apron, Slope to Drain

CATCH BASIN No. 2-2C

MAXIMUM

TRENCH WIDTH

AT TOP OF PIPE

BACKFILL

SEE NOTE 3

CLASS 'C

ON SITE MATERIAL,

CONFORMING TO ODOT

ITEM 203, WELL COM-

12" MIN.

SHAPE BOTTOM

OF TRENCH -

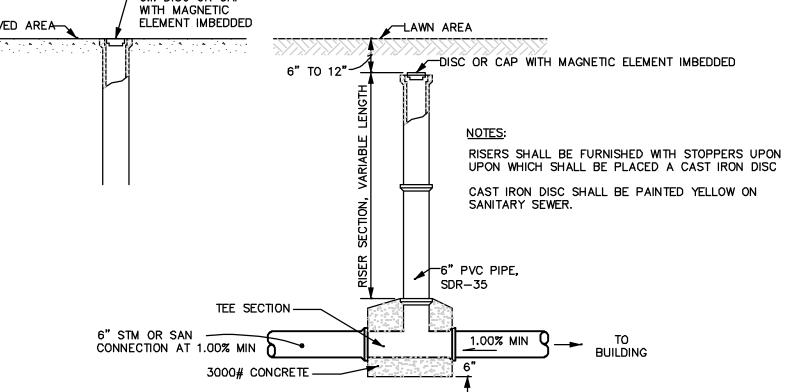
PACTED IN 6" LIFTS.

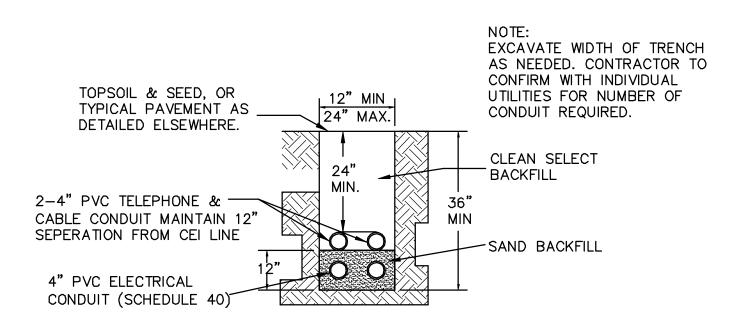
<u>INE</u> LIMITS OF

BEDDING

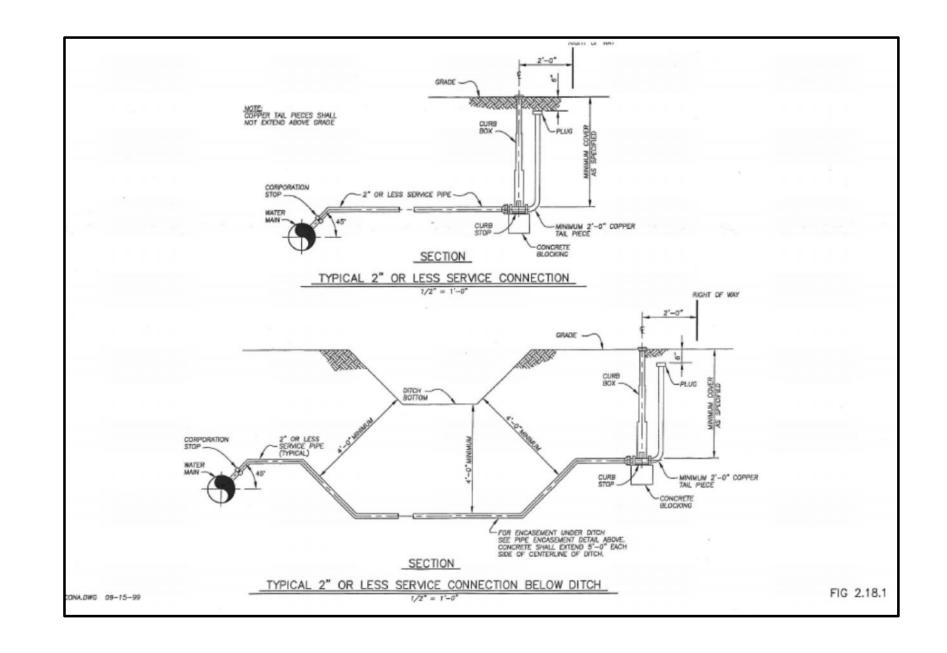
SEE NOTE 1

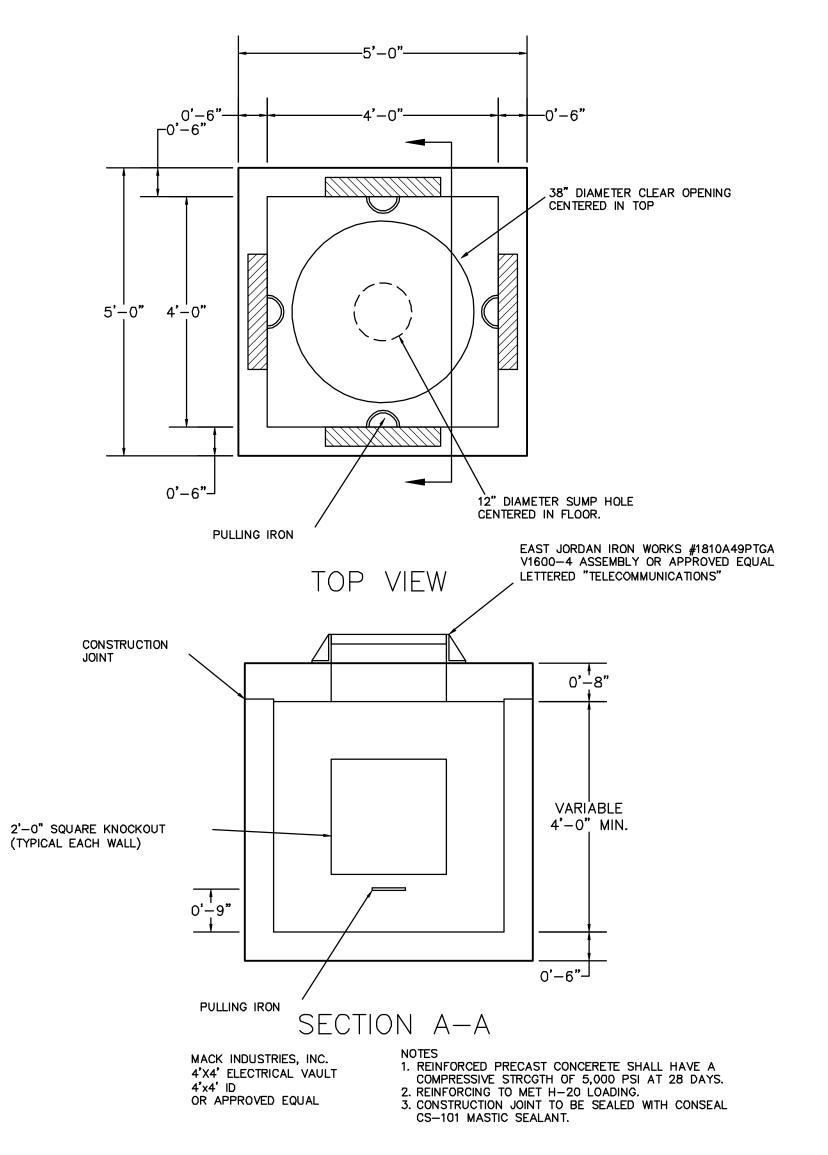
(Тур.)



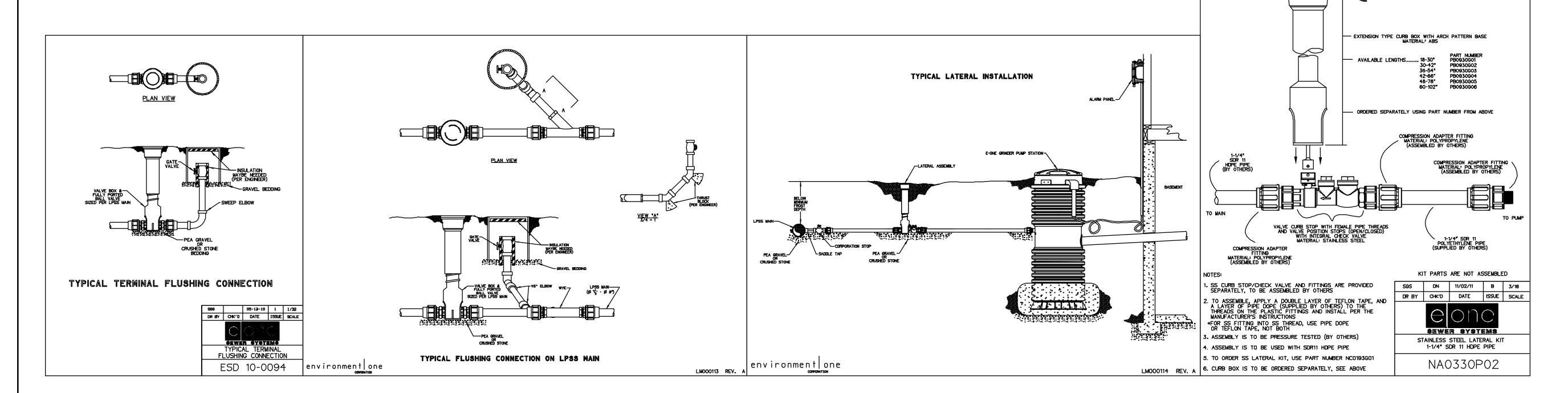


ELECTRIC & TELECOMMUNICATION TRENCH DETAIL





4' X 4' TELECOMMUNICATION VAULT





LAND SURVEYING - ENGINEERING - DESIGN 3800 LAKESIDE AVENUE - SUITE 100 CLEVELAND - OHIO - 44114 CLEVELAND - OHIO - 44114 CLEVELAND - OHIO - 5421-9640 MANNE CLEVELAND - OHIO - 5421-9640 MANNE CLEVELAND - OHIO - 5421-9640

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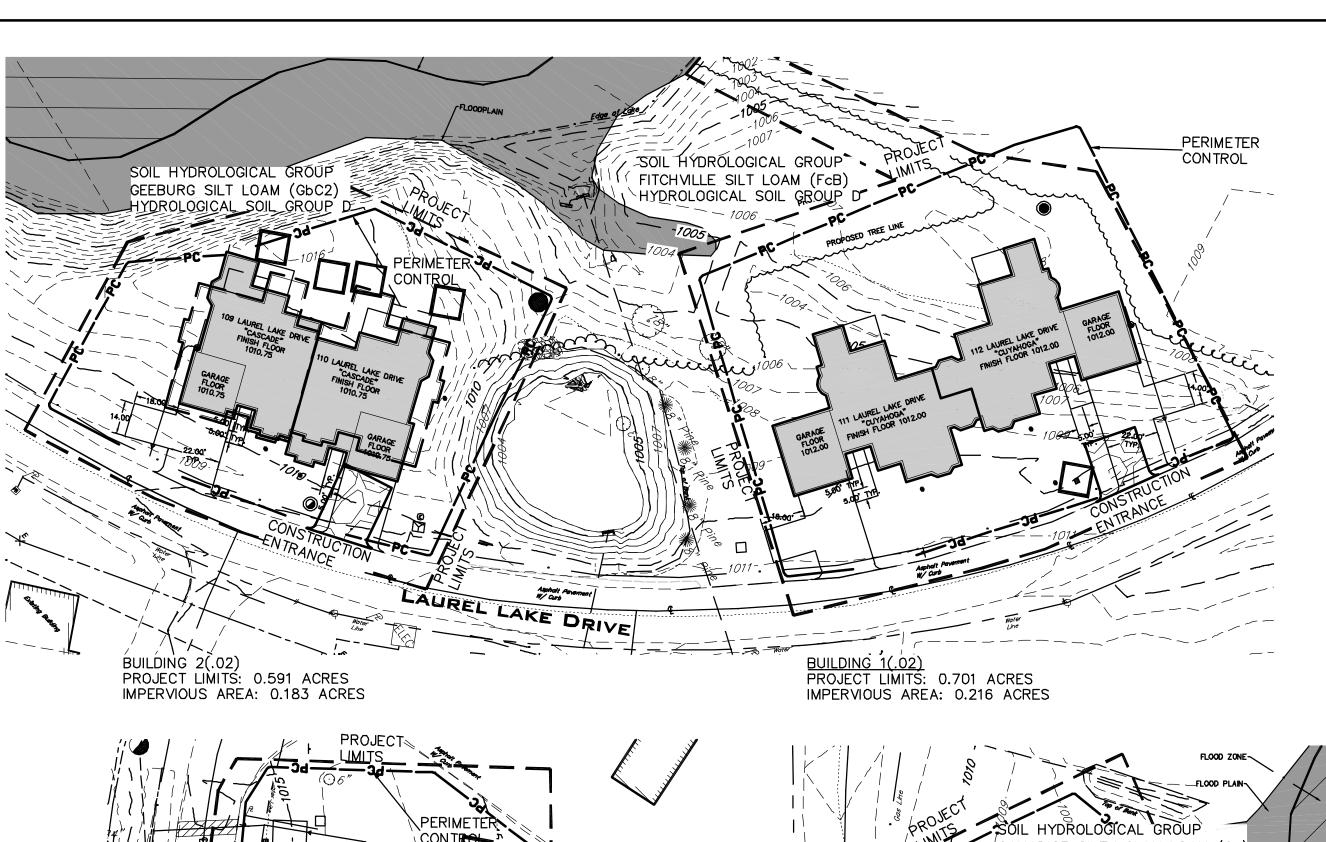
UREL LAKE VILLA LAUREL LAKE DRIVE

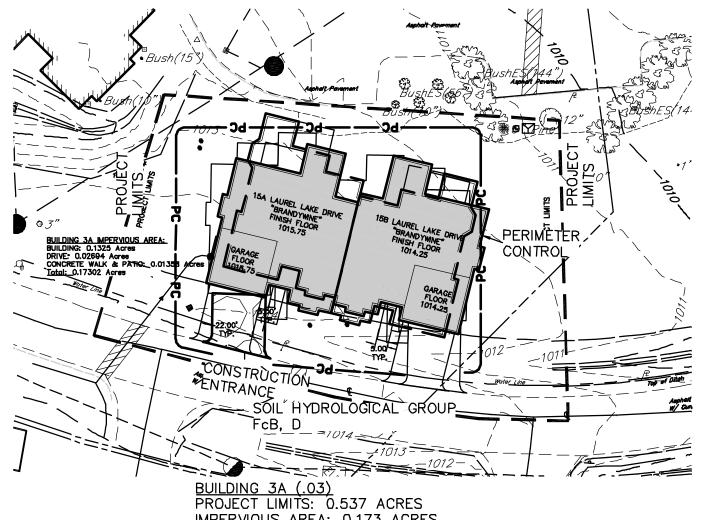
STAINLESS STEEL LATERAL KIT 1-1/4" SDR 11 HDPE PIPE

Ohio Utilities Protection Service before you

OGPUPS Chicago Underground Protection Service Call (614) 715-2984 or 811

C8.03





IMPERVIOUS AREA: 0.173 ACRES

GENERAL SWPPP NOTES:

AT ALL TIMES.

TOTAL LOT AREA = 141.9 ACRES DISTURBED AREA = 4.37 ACRES

LOCATION OF WASTE STORAGE AND DISPOSAL SHOWN ON THE PLANS SHALL BE VERIFIED BY CONTRACTOR. LOCATION MAY BE CHANGED AND THE SWPPP AMENDED.

A COPY OF THE SWPPP AND ALL ADDENDUM TO THE SWPPP SHALL BE KEPT ON SITE

ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AS PER PLAN. ALL PRACTICES MUST BE MAINTAINED AND FUNCTIONAL DURING CONSTRUCTION

EROSION CONTROL BLANKETS WITH MATTING SHALL BE USED ON SLOPES GREATER THAN

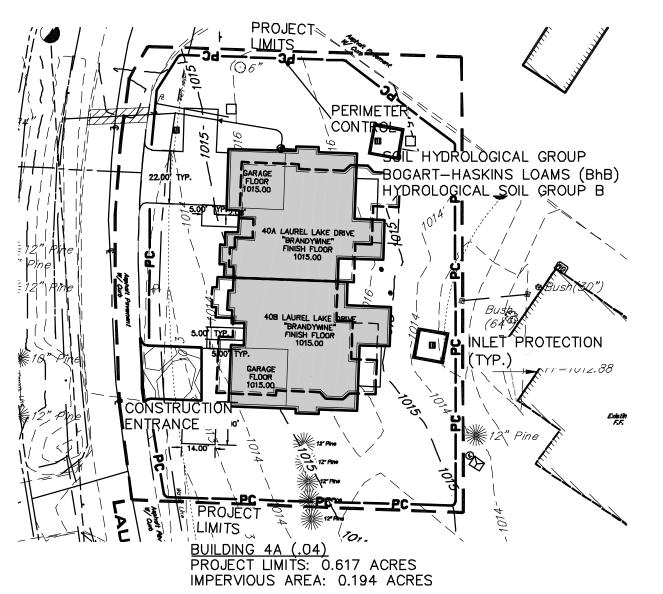
EXCESS SEDIMENT SHALL BE REMOVED FROM THE TEMPORARY SEDIMENT BASIN WHEN THE SEDIMENT OCCUPIES 40% OF THE SEDIMENT STORAGE ZONE.

ONCE THE SITE HAS BEEN STABILIZED AND PROPER AUTHORIZATION HAS BEEN OBTAINED, CONSTRUCTION BMPS MAY BE REMOVED.

CONSTRUCTION SCHEDULE

- 1. INSTALL TEMPORARY STONE CONSTRUCTION ENTRANCE.
- 2. INSTALL PERIMETER CONTROL.
- 3. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS.
- 4. STRIP TOPSOIL.
- 5. MASS GRADE AND APPLY SOIL STABILIZATION AS REQUIRED.
- 6. INSTALL UTILITIES.
- 7. INSTALL INLET PROTECTION ON NEW CATCH BASINS.
- 8. INSTALL BUILDING FOUNDATION.
- 10. AFTER PROPER AUTHORIZATION HAS BEEN OBTAINED BY THE GOVERNING AGENCY,

REMOVE EROSION AND/OR SEDIMENT BMP'S.



CANADICE SILTY CLAY LOAM (Ca) YDROLOGICAL SOIL GROUP D GEEBURG SILT LOAM (GbC2) HYDROLOGICAL SOIL GROUP D

PROJECT LIMITS: 0.611 ACRES

IMPERVIOUS AREA: 0.188 ACRES CONSTRUCTION ACTIVITY: CONSTRUCTION ACTIVITY WILL INCLUDE THE CLEARING AND GRUBBING OF THE PROJECT LIMITS SITE AND THE CONSTRUCTION OF PROPOSED BUILDINGS. CONSTRUCTION WILL ALSO INCLUDE THE INSTALLATION OF NEW UTILITY CONNECTIONS AND

STORM SEWER SYSTEM THAT DEPOSITS STORM SEWER WATER INTO LAUREL LAKE. EACH BUILDING WILL EITHER DEPOSIT DIRECTLY INTO THE LAKE, DEPOSIT INTO THE LOCAL SYSTEM WHICH EVENTUALLY DEPOSITS INTO THE LAKE, OR DEPOSIT INTO A LOCAL DETENTION SYSTEM WHICH WILL DEPOSIT INTO THE LAKE.

POST CONSTRUCTION SITE AREAS TOTAL SITE: 141.9 ACRES

PROPOSED IMPERVIOUS: APPROXIMATELY 24 ACRES.

POST CONSTRUC	TION WEIGH	<u>TED C VAL</u>	<u>UE</u>
Surface	С	Area	CxArea
Bldg	0.90	0.80	0.72
Pavt	0.90	0.31	0.279
<u>Open (Fair)</u>	0.57	2.74	1.56
Total		3.85	2.56

Weighted C = 2.56 / 3.85 = 0.66

POST CONSTRUCTION % IMPERVIOUSNESS 1.11 / 3.85 = 0.288 = 28.8%

FUTURE STORM WATER:

FUTURE STORM WATER WILL BE COLLECTED IN STORM SEWERS ON SITE. BUILDINGS 1,2 AND 5A WILL BE DISCHARGED DIRECTELY TO LAKE FOREST. LAKE FOREST HAS A DRAINAGE AREA OF APPROXIMATELY 3,200 ACRES. THE TOTAL IMPERVIOUS AREA DRAINING TO THE LAKE IS LESS THAN 5% OF THE TOTAL DRAINAGE AREA, THEREFORE WATER QUALITY DOES NOT NEED TO BE INCLUDED. BUILDING 4A DRAINS TO A SMALL DETENTION BASIN TO REDUCE THE PEAK FLOW FROM THE UNIT BEFORE BEING DISCHARGED INTO A STORM SEWER ON SITE. THIS ALSO DRAINS TO LAKE FOREST. BUILDING 3A, 8 AND 9 DRAIN TO THE LAUREL LAKE BEHIND THE DEVELOPMENT. LAUREL LAKE HAS A DRAINAGE AREA OF APPROXIMATELY 46 ACRES. THE INCREASE IN IMPERVIOUS AREA DRAINING TO THE LAKE IS LESS THAN 5% OF THE TOTAL DRAINAGE AREA AND THEREFORE WATER QUALITY IS NOT REQUIRED.

NOTICE OF INTENT (NOI) & NOTICE OF TERMINATION (NOT): PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, A NOTICE OF INTENT (NOI) SHALL BE FILED WITH THE OHIO EPA. CONSTRUCTION ACTIVITIES WILL COMPLY IN WITH CITY OF HUDSON CODIFIED ORDINANCE AND OEPA CONSTRUCTION GENERAL PERMIT #OHCOOOOO5. ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED THE DEVELOPER SHALL SUBMIT A NOTICE OF TERMINATION (NOT) WITH THE OHIO EPA.

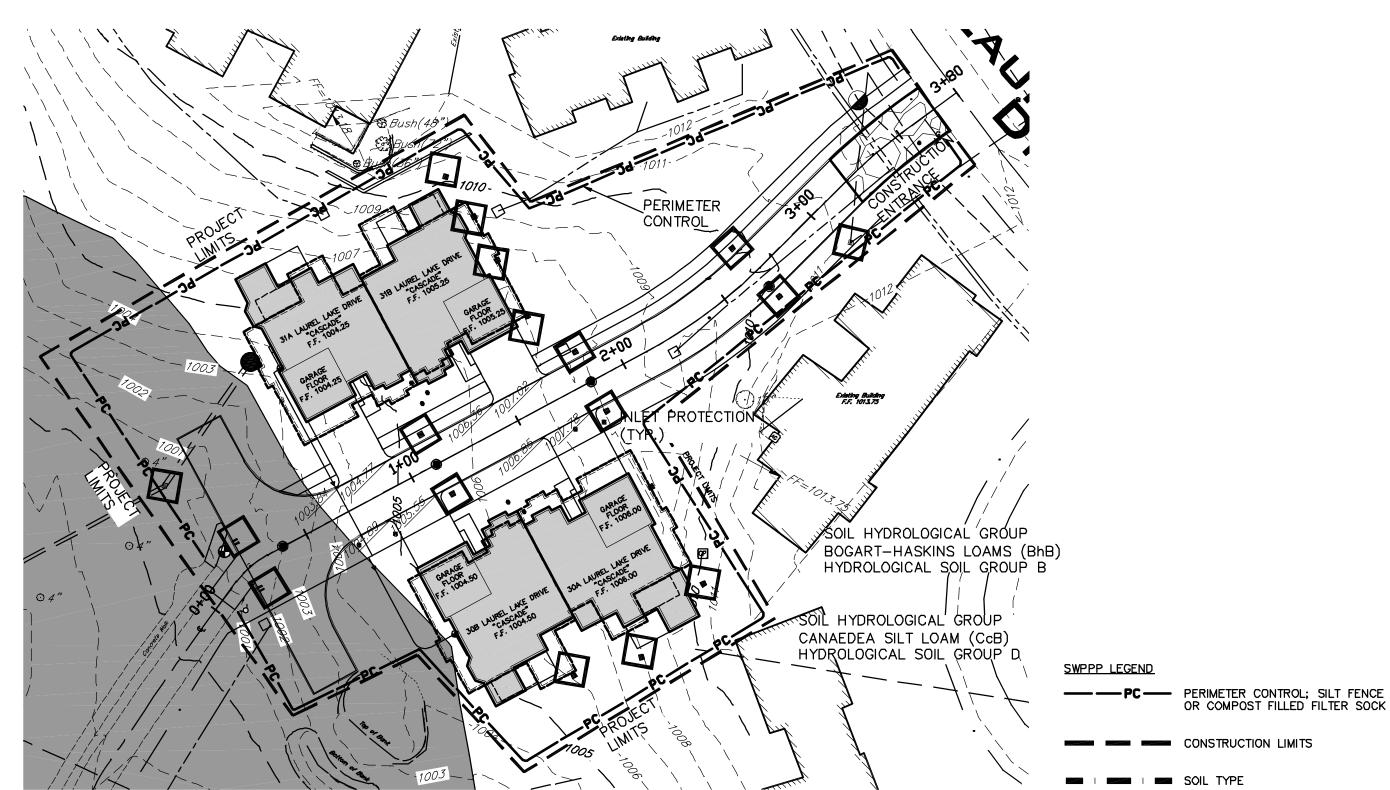
NOI PERMIT #

CONSTRUCTION: START: WINTER 2023 - COMPLETION: SPRING 2024

SWPPP CHANGES & AMENDMENTS: ALL CHANGES AND AMENDMENTS TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE APPROVED BY DAVID A. PIETRANTONE P.E., THE RIVERSTONE COMPANY.

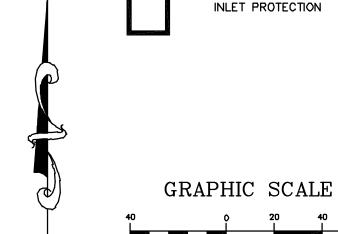
THE RIVERSTONE COMPANY 3800 LAKESIDE AVENUE, SUITE 100 CLEVELAND, OHIO 44114 PHONE: (216) 491-2000

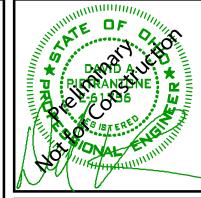
LAUREL LAKE RETIREMENT COMMUNITY ANDREW LOVANO PH: 330-655-1402



BUILDING 8 & 9(.06)
PROJECT LIMITS: 1.35 ACRES ROAD AREA: 0.266 ACRES BUILDING AREA: 0.3162 ACRES

CONTRACTOR:





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PAGE REVISIONS: 9/7/2023

ISSUED FOR: FOR BID 12/26/2023 NOT FOR CONSTRUCTION

L 4

OR COMPOST FILLED FILTER SOCK

CONSTRUCTION ENTRANCE

CONCRETE WASHOUT

(IN FEET)

1 inch = 40 ft.



OGPUPS (A) o Oil & Gas Producers Underground Protection : Call (614) 715-2984 or 811

SITE DATA: THE PROJECT IS LOCATED ON LAUREL LAKE DRIVE

IN THE CITY OF HUDSON. THE ENTIRE AREA OF THE SITE

IS APPROXIMATELY 141.9 ACRES. THE PROJECT LIMITS IS

APPROXIMATELY 4.37 ACRES, EXISTING STORM WATER ON

DEPOSITED INTO A DETENTION BASIN OR DIRECTLY INTO

ONE OF TWO LAKES ON SITE. DETENTION BASINS ON SITE

DEPOSIT INTO LAKES. THE LARGER OF THE TWO LAKES-

PRE CONSTRUCTION WEIGHTED C VALUE (PROJECT LIMITS)

0.18

0.36

3.85

SOILS: THE NATIONAL RESOURCE CONSERVATION SERVICE WEB

SOIL SURVEY OF SUMMIT COUNTY IDENTIFIES THE SOILS ON

BOGART-HASKINS LOAMS (BhB), HSG B

BOGART-HASKINS LOAMS (BhB), HSG B

BUILDING 1 - GEEBURG SILT LOAM (GbC2), HSG D

BUILDING 2 - FITCHVILLE SILT LOAM (FcB), HSG D

BUILDING 3A - FITCHVILLE SILT LOAM (FcB), HSG D

BUILDING 8 - CANAEDEA SILT LOAM (CcB), HSG D

BUILDING 9 - CANAEDEA SILT LOAM (CcB), HSG D

BUILDING 4A - BOGART-HASKINS LOAMS (BhB), HSG B

BUILDING 5 - CANADICE SILTY CLAY LOAM (Ca), HSG D

CxArea

0.0738

0.1344

2.218

LAUREL LAKE FLOWS INTO PINE LAKE OFF SITE.

0.41

0.96

0.57

Weighted C = 2.218 / 3.85 = 0.576

PRE CONSTRUCTION % IMPERVIOUSNESS

0.36 / 3.85 = 9.3%

SITE AS SUCH:

Surface

Woods (Fair)

Impervious

Open (Fair)

SITE IS COLLECTED INTO DRAINAGE SYSTEM BEFORE BEING

SILT FENCE DESCRIPTION:

SILT FENCE IS A SEDIMENT-TRAPPING PRACTICE UTILIZING A GEOTEXTILE FENCE, TOPOGRAPHY AND VEGETATION TO CAUSE SEDIMENT DEPOSITION. SILT FENCE REDUCES RUNOFFS ABILITY TO TRANSPORT SEDIMENT BY PONDING RUNOFF AND DISSIPATING SMALL RILLS OF CONCENTRATED FLOW INTO UNIFORM SHEET FLOW.

CONDITIONS WHERE PRACTICE APPLIES:

SILT FENCE IS USED WHERE RUNOFF OCCURS AS SHEET FLOW OR WHERE FLOW THROUGH SMALL RILLS CAN BE CONVERTED TO SHEET FLOW. SILT FENCE CANNOT EFFECTIVELY TREAT FLOWS IN GULLIES, DITCHES OR CHANNELS. FOR MORE SEVERE CONDITIONS SEE SPECIFICATIONS FOR TEMPORARY DIVERSIONS, SEDIMENT TRAPS AND SEDIMENT BASINS.

PLANNING CONSIDERATIONS:

SILT FENCE VS TEMPORARY DIVERSIONS AND SETTLING PONDS — TO TREAT SHEET FLOW RUNOFF, SILT FENCE IS USED OR DIVERSIONS ARE CONSTRUCTED TO DIRECT RUNOFF TO A SEDIMENT POND. SILT FENCE IS MOST APPLICABLE FOR RELATIVELY SMALL AREAS WITH FLAT TOPOGRAPHY. SILT FENCE ALSO REQUIRES LESS SPACE AND CAUSES LESS DISTURBANCE. A SYSTEM OF DIVERSIONS AND SETTLING PONDS, ON THE OTHER HAND, HAS GREATER INTEGRITY. COMPARED TO SILT FENCE, THEY CAN HANDLE MUCH GREATER FLOWS AND ARE MORE DURABLE AND EASIER TO CONSTRUCT CORRECTLY. AS A RESULT, EARTH DIVERSIONS AND SETTLING PONDS GENERALLY ARE RECOMMENDED OVER SILT FENCE.

DESIGN CRITERIA:

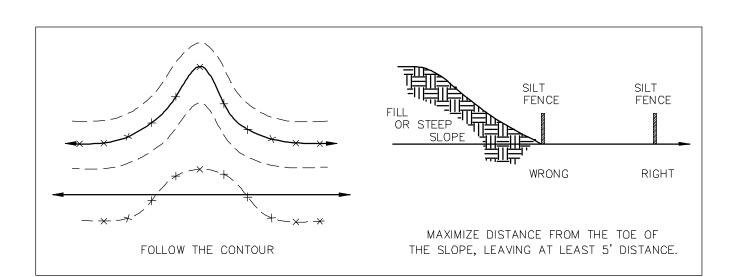
SILT FENCE AS A SEDIMENT CONTROL PRACTICE CONSISTS NOT ONLY OF THE FENCE ITSELF BUT, JUST AS IMPORTANTLY, IT ENTAILS TOPOGRAPHY. THIS IS A CRITICAL CONSIDERATION BECAUSE THE SEDIMENT REMOVAL PROCESS RELIES ON DEPOSITION NOT FILTERING, AS OFTEN ASSUMED. SILT FENCE WORKS BY DISPERSING FLOW, PONDING RUNOFF AND RELEASING DIFFUSE FLOW. HOWEVER, IF SILT FENCE IS USED WITHOUT REGARD TO A SITE'S TOPOGRAPHY, IT WILL TYPICALLY CONCENTRATE RUNOFF, INCREASING ITS ABILITY TO TRANSPORT SEDIMENT RATHER THAN CAUSING DEPOSITION.

LEVEL CONTOUR — FOR SILT FENCE TO ENHANCE DEPOSITION, IT MUST BE PLACED ON THE LEVEL CONTOUR OF THE LAND SO THAT FLOWS ARE DISSIPATED INTO UNIFORM SHEET FLOW, WHICH HAS LITTLE ENERGY FOR TRANSPORTING SEDIMENT. SILT FENCE SHOULD NEVER CONCENTRATE RUNOFF, WHICH WILL RESULT IF IT IS PLACED UP AND DOWN SLOPES RATHER THAN ON THE LEVEL CONTOUR.

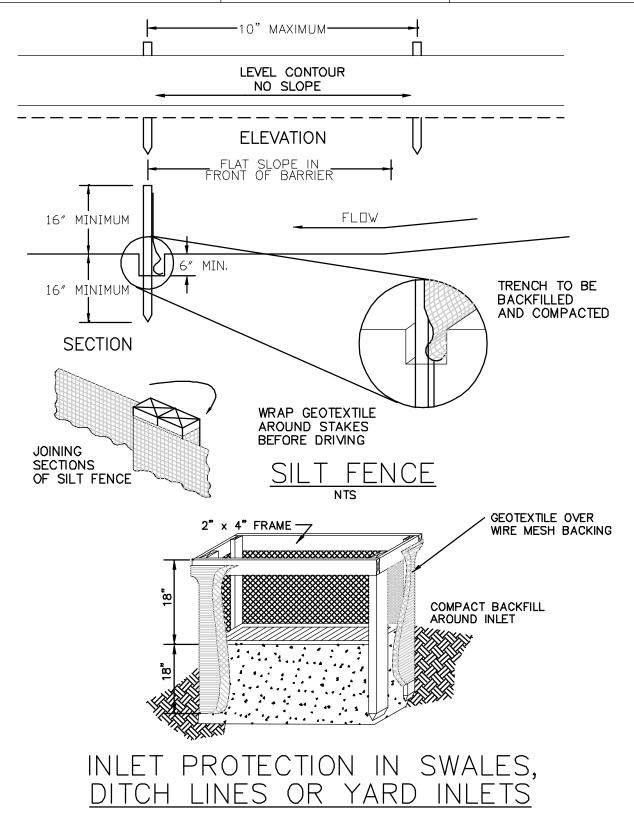
FLAT SLOPES - SILT FENCE MUST ALSO BE USE ON THE FLATTEST AREAS AVAILABLE. BECAUSE OF THE GREAT IMPORTANCE SLOPE HAS ON WATER'S ABILITY TO TRANSPORT SEDIMENT. SILT FENCE SHOULD NEVER BE PLACED DIRECTLY AT THE TOE OF A SLOPE IF IT IS AT ALL POSSIBLE TO PLACE IT SEVERAL FEET AWAY. SILT FENCE GENERALLY SHOULD BE PLACED ON THE FLATTEST AREA AVAILABLE TO INCREASE THE SHALLOW PONDING OF RUNOFF AND MAXIMIZE SPACE AVAILABLE FOR DEPOSITED SEDIMENT.

FLOW AROUND ENDS - TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END MUST BE CONSTRUCTED UP-SLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

VEGETATION - DENSE VEGETATION ALSO HAS THE EFFECT OF DISSIPATING FLOW ENERGIES AND CAUSING SEDIMENT DEPOSITION. SEDIMENT-TRAPPING EFFICIENCY WILL BE ENHANCED WHERE A DENSE STAND OF VEGETATION OCCURS FOR SEVERAL FEET BOTH BEHIND AND IN FRONT OF A SILT FENCE.



FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	AStm D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	AStm D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./SQ. FT. MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SLEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	AStm-G-26



SPECIFICATIONS FOR SILT FENCE:

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UP-SLOPE LAND DISTURBANCE BEGINS. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY
- SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UP-SLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- 4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACE ON THE FLATTEST AREA AVAILABLE
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UP-SLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP . THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF
- THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED. 9. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
- 10. MAINTENANCE SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS:

- 1. FENCE POSTS THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- 2. SILT FENCE FABRIC (SEE CHART BELOW):
- 1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UP-SLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 IN. 3. THE WOODED FRAME SHALL BE CONSTRUCTED OF 2-BY-4 IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4 IN, POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE

TOP PORTION OF 2-BY-4 IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE

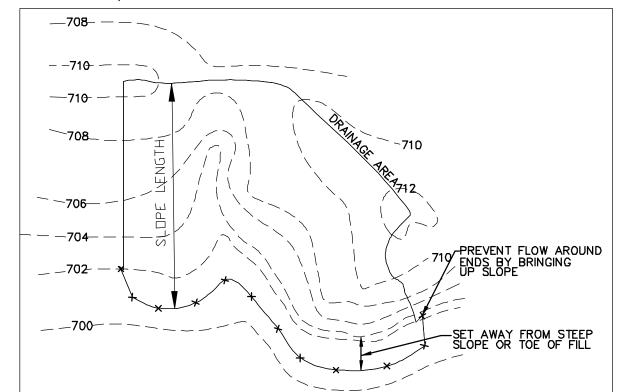
- FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE
- 5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- 6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN
- WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES. 7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME

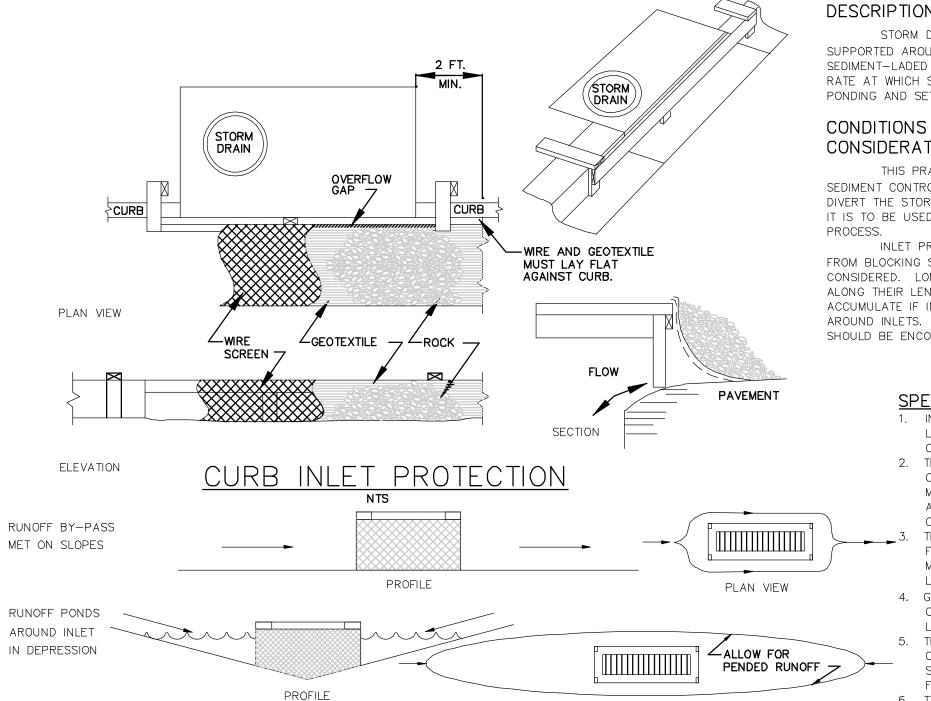
DRAINAGE AREA:

- 1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UP-SLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOME OPERATIONAL.
- 2. THE WOODED FRAME IS TO BE CONSTRUCTED OF 2-BY-4 IN. CONSTRUCTION-GRADE LUMBER. THE END SPACERS SHALL BE A MINIMUM OF 1 FT. BEYOND BOTH ENDS OF THE THROAT OPENING. THE ANCHORS SHALL BE NAILED TO 2-BY-4 IN. STAKES DRIVEN ON THE OPPOSITE SIDE OF THE CURB.
- 3. THE WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC AND STONE. IT SHALL BE A CONTINUOUS PIECE WITH A MINIMUM WIDTH OF 30 IN. AND 4 FT. LONGER THAN THE THROAT LENGTH OF THE INLET 2 FT ON EACH SIDE
- 4. GEOTEXTILE CLOTH SHALL HAVE AN EQUIVALENT OPENING SIZE (EOS) OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE AT LEAST THE SAME SIZE AS THE WIRE MESH.
- 5. THE WIRE MESH AND GEOTEXTILE CLOTH SHALL BE FORMED TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDE OF THE INLET AND SECURELY FASTENED TO THE 2-BY-4 IN. FRAME.
- 6. TWO-INCH STONE SHALL BE PLACED OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE CLOTH.

DISPERSING FLOW - PROPER APPLICATIONS OF SILT FENCE WILL ALLOW ALL THE INTERCEPTED RUNOFF TO PASS AS DIFFUSED FLOW THROUGH THE GEOTEXTILE. RUNOFF SHOULD NEVER OVERTOP SILT FENCE, FLOW AROUND THE ENDS, OR IN ANY OTHER WAY FLOW AS CONCENTRATED FLOW FROM THE PRACTICE. IF THIS DOES OCCUR, MAINTENANCE ALTERNATIVE SILT FENCE LAYOUT, OR OTHER PRACTICES ARE NEEDED.

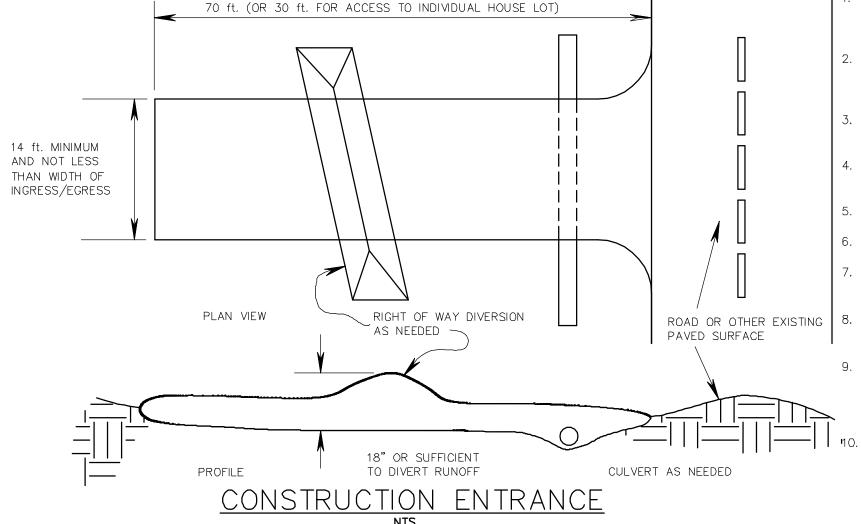
SILT FENCE MAXIMUM DRAINAGE AREA BASED ON SLOPE AND SLOPE LENGTH SLOPE LENGTH (FT.) SLOPE FLATTER THAN 50:1 250 0% - 2% 125 2% - 10% 50:1 - 10:1 10% - 20% 100 10:1 - 5:1 75 20% - 33% 5:1 - 3:1 33% - 50% 3:1 - 2:1 50 > 50% > 2:1 25 FOR LARGER DRAINAGE AREAS, SEE STANDARDS FOR TEMPORARY DIVERSIONS, SEDIMENT TRAPS AND SEDIMENT BASINS.





STORM DRAIN INLET PROTECTION

PLAN VIEW



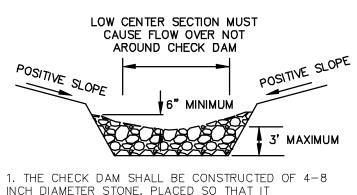
CONSTRUCTION ENTRANCE

DESCRIPTION: A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF AGGREGATE OVER A GEOTEXTILE BASE AND IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC.

- CONDITIONS WHERE PRACTICE APPLIES:
 - A CONSTRUCTION ENTRANCE SHOULD BE USED: * WHERE CONSTRUCTION VEHICLES LEAVE ACTIVE CONSTRUCTION AREAS ONTO SURFACES WHERE RUNOFF
 - IS NOT CHECKED BY SEDIMENT CONTROLS;
 - * AT ALL POINTS OF EGRESS TO PUBLIC ROADS; WHERE FREQUENT VEHICLES AND EQUIPMENT INGRESS/EGRESS IS EXPECTED SUCH AS AT THE AT THE ENTRANCE OF INDIVIDUAL BUILDING LOTS;

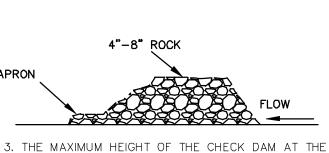
PLANNING CONSIDERATIONS:

THIS PRACTICE SHOULD NOT BE RELIED ON TO REMOVE MUD FROM CONSTRUCTION TRAFFIC. MOST MUD 4. IS FLUNG FROM TIRES AS VEHICLES REACH SPEEDS HIGHER THAN IS REACHED ON SITE. THE BEST APPROACH TO PREVENTING OFF-SITE TRACKING IS TO KEEP VEHICLES THAT FREQUENTLY ENTER AND LEAVE A SITE, AWAY FROM MUDDY AREAS IN THE FIRST PLACE. VEHICLES SHOULD BE RESTRICTED TO STABILIZED AREAS TO THE EXTENT PRACTICAL, AND AREAS WHERE FREQUENT INGRESS/EGRESS IS EXPECTED SHOULD BE STABILIZED.



INCH DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL.

2. THE TOP OF THE CHECK DAM SHALL BE CONSTRUCTED SO THAT THE CENTER IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES, SO WATER WILL FLOW ACROSS THE CENTER AND NOT AROUND THE ENDS.



CENTER OF THE WEIR SHALL NOT EXCEED 3 FOOT. 4. SPACING BETWEEN DAMS SHALL BE AS SHOWN IN THE PLANS.

STORM DRAIN INLET PROTECTION **DESCRIPTION:**

STORM DRAIN INLET PROTECTION CONSISTS OF A GEOTEXTILE BARRIER SUPPORTED AROUND OR ACROSS A STORM DRAIN INLET. IT IS USED TO PREVENT SEDIMENT-LADED WATER FROM ENTERING A STORM DRAIN SYSTEM. IT REDUCES THE RATE AT WHICH SEDIMENT-LADEN WATER MAY ENTER AN INLET THEREBY CAUSING PONDING AND SETTLING OF SEDIMENT.

CONDITIONS WHERE PRACTICE APPLIES AND PLANNING CONSIDERATIONS:

THIS PRACTICE IS NOT GENERALLY RECOMMENDED AS A PRIMARY MEANS OF SEDIMENT CONTROL. IT SHOULD ONLY BE USED IF IT IS NOT POSSIBLE TO TEMPORARILY DIVERT THE STORM DRAIN OUTFALL INTO A SEDIMENT TRAP OR SEDIMENT BASIN OR IF IT IS TO BE USED ONLY FOR A SHORT PERIOD OF TIME DURING THE CONSTRUCTION

INLET PROTECTION IN EFFECT BLOCKS STORM DRAIN INLETS. THE RESULT FROM BLOCKING STORM DRAIN INLETS WILL HAVE ON THE SITE'S DRAINAGE MUST BE CONSIDERED. LONG SLOPING STREETS OR DITCHES DESIGNED WITH SEVERAL INLETS ALONG THEIR LENGTH MAY HAVE A SIGNIFICANT AMOUNT OF SURFACE FLOW ACCUMULATE IF INLET PROTECTION IS USED. IN LOW AREAS, A POND WILL FORM AROUND INLETS. PONDING IS NECESSARY FOR REMOVING SEDIMENT FROM RUNOFF AND SHOULD BE ENCOURAGED IN CONJUNCTION WITH INLET PROTECTION.

<u>SPECIFICATIONS FOR CURB INLET PROTECTION:</u>

INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.

2. THE WOODEN FRAME IS TO BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE END SPACERS SHALL BE A MINIMUM OF 1 FT, BEYOND BOTH ENDS OF THE THROAT OPENING. THE ANCHORS SHALL BE NAILED TO 2-BY-4-IN. STAKES DRIVEN ON THE OPPOSITE SIDE OF THE CURB.

THE WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC AND STONE. IT SHALL BE A CONTINUOUS PIECE WITH A MINIMUM WIDTH OF 30 IN. AND 4 FT. LONGER THAT THE THROAT LENGTH OF THE INLET, 2 FT. ON EACH SIDE.

4. GEOTEXTILE CLOTH SHALL HAVE AN EQUIVALENT OPENING SIZE (EOS) OF 20-40 SLEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE AT LEAST THE SAME SIZE AS THE WIRE MESH.

5. THE WIRE MESH AND GEOTEXTILE CLOTH SHALL BE FORMED TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET AND SECURELY FASTENED TO THE 2-BY-4-IN.

6. TWO-INCH STONE SHALL BE PLACED OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE CLOTH.

EROSION NOTES

- SEDIMENT PONDS/TRAPS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED.
- DISTURBED AREAS WITHIN 50 FEET OF A STREAM, WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 14 DAYS OR MORE, SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 2 DAYS.
- DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 14 DAYS OR MORE, SHALL BE STABILIZED WITH SEEDING AND
- MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS. EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6%
- DISTURBED AREAS THAT WILL BE IDLE OVER WINTER SHALL BE STABILIZED PRIOR TO NOVEMBER 1.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER
- OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLAN.
- ROAD OR OTHER EXISTING | 8. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006 or NEWEST EDITION). 9. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY
 - DUE TO ENVIRONMENTAL CONDITIONS. A TEMPORARY COVERING OF STRAW MULCH OVER BARE GROUND THROUGHOUT THE DURATION OF THE PROJECT IS EFFECTIVE MEANS OF MINIMIZING EROSION. A STOCKPILE OF STRAW BALES SHOULD BE ON HAND.
 - 10. REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24-HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE:

- STONE SIZE -- TWO-INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT. (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30-FT. MINIMUM LENGTH APPLIES).
- THICKNESS--THE STONE LAYER SHALL BE AT LEAST 6 IN. THICK. WIDTH--THE ENTRANCE SHALL BE AT LEAST 10 FT. WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS.
- 5. BEDDING--A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST
- 6. CULVERT--A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES. 7. WATER BAR--A WATER BAR SHALL BE CONSTRUCTED AS PART OF
- THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- 8. MAINTENANCE--TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING, VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.



2023-186

PLAN REVISIONS:

PAGE REVISIONS:

NOT FOR CONSTRUCTION



AREA REQUIRING TEMPORARY STABILIZATION TIME FRAME FOR SEEDING ANY DISTURBED AREA WITHIN 50' OF A STREAM AND NOT AT FINAL GRADE DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR 14 DAYS OR MORE DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 OLS WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA DISTURBED AREAS THAT WILL BE IDLE OVER WINTER PRIOR TO THE ONSET OF WINTER TEMPORARY SEEDING MIXTURE SEEDING DATES SPECIES LB./1,000 sq.ft. PERENNAIL RYEGRASS 1 40 LB 41 LFESCUE 41 40 LB 40						
THE AREA WILL REMAIN IDLE FOR 14 DAYS OR MORE DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN 1 YEAR AND NOT WITHIN 50' OF A STREAM WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE	AREA REQUIRING TEMPO	DRARY STABILIZATION	TIME FRAME FOR SEEDING			
DAYS BUT LESS THAN 1 YEAR AND NOT WITHIN 50' OF A STREAM						
TEMPORARY SEEDING MIXTURE						
SEEDING DATES SPECIES LB./1,000 sq.ft. per Acre	DISTURBED AREAS THAT WIL	L BE IDLE OVER WINTER	PRIOR TO THE ONSE	T OF WINTER		
MARCH 1 TO AUGUST 15 OATS TALL FESCUE 1 40 LB 40 LB 40 LB 40 LB ANNUAL RYEGRASS 1 40 LB 40 LB 40 LB 40 LB 40 LB PERENNAIL RYEGRASS 1 40 LB 4		TEMPORARY SEE	DING MIXTURE			
TALL FESCUE ANNUAL RYEGRASS 1 40 LB PERENNAIL RYEGRASS 1 40 LB PERENNAIL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB RYE TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 40 LB WHEAT TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 40 LB PERENNIAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB	SEEDING DATES	SPECIES	LB./1,000 sq.ft.	per Acre		
TALL FESCUE ANNUAL RYEGRASS 1 40 LB 40 LB 40 LB ANUAL RYEGRASS 1 AUGUST 15 TO NOVEMBER 1 RYE TALL FESCUE 1 40 LB 40 LB 40 LB 40 LB WHEAT TALL FESCUE 1 40 LB WHEAT TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 PERENNIAL RYEGRASS 1 40 LB PERENNIAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB 40 LB 40 LB ANNUAL RYEGRASS 1 40 LB ANNUAL RYEGRASS 1 40 LB	TALL FESCUE		3 1 1	40 LB		
TALL FESCUE 1 40 LB WHEAT 1 2 BUSHEL TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 40 LB PERENNIAL RYEGRASS 1 40 LB TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 40 LB		TALL FESCUE	1 1 1	40 LB		
TALL FESCUE ANNUAL RYEGRASS 1 40 LB PERENNIAL RYEGRASS 1 40 LB TALL FESCUE 1 40 LB 1 40 LB ANNUAL RYEGRASS 1 40 LB	AUGUST 15 TO NOVEMBER 1	TALL FESCUE	3 1 1	40 LB		
TALL FESCUE 1 40 LB ANNUAL RYEGRASS 1 40 LB		TALL FESCUE	1 1 1	40 LB		
NOVEMBER 1 TO SPRING SEEDING USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING		TALL FESCUE	1 1 1	40 LB		
	NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PR	ACTICES OR DORMANT SEEDING			

AREA REQUIRING PERMANENT STABILIZATION		TIME FRAME FOR SEEDING		
ANY AREAS THAT WILL LIE OR MC	= - · · · · · · · · · · · · · · · · · ·	WITHIN SEVEN DAYS OF T DISTURBAN		
ANY AREAS WITHIN 50'C FINAL GI		WITHIN TWO DAYS OF REAC	CHING FINAL GRADE	
ANY OTHER AREAS	AT FINAL GRADE	WITHIN SEVEN DAYS OF REA WITHIN THAT		
	PERMANENT SEEDIN	IG MIXTURE		
SEEDING DATES	SPECIES	LB./1,000 sq.ft.	per Acre	
MARCH 15 TO OCTOBER 1	TALL FESCUE TURF-TYPE (DWARF FESCUE ANNUAL RYEGRASS	1	40-50 LBS 40 LB	
	PERENNAIL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB 40 LB 40 LB	
AUGUST 15 TO NOVEMBER 1 RYE TALL FESCUE ANNUAL RYEGRASS		3 1 1	2 BUSHEL 40 LB 40 LB	
	WHEAT TALL FESCUE ANNUAL RYEGRASS	1 1 1	2 BUSHEL 40 LB 40 LB	
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB 40 LB 40 LB	

AMENDMENT NO. DESCRIPTION OF AMENDMENT DATE OF AMENDMENT DATE OF AMENDMENT	
	AMENDMENT PREPARE (NAME & TITLE)

	ROJECT NAME:PPP CONTACT:			
DATE GRADING ACTIVITY	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY	STABILIZATION	DESCRIPTION OF STABILIZATION MEASURES AND LOCATION
STARTED		CEASED	MEASURES	MENSONES AND ESSATISM
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GRADING & STABILIZATION LOG

DUST	CONTRO

- DESCRIPTION: DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION, AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.
- CONDITIONS WHERE PRACTICE APPLIES AND PLANNING CONSIDERATIONS: IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST WHERE ON—SITE AND OFF—SITE DAMAGE IS LIKELY TO OCCUR IF PREVENTATIVE MEASURES ARE NOT TAKEN
- DESIGN CRITERIA: A NUMBER OF MEASURES CAN BE UTILIZED TO LIMIT DUST EITHER DURING OR BETWEEN CONSTRUCTION STAGES OR ONCE CONSTRUCTION IS COMPLETE. GENERALLY THE SAME METHODS THAT ARE USED TO LIMIT EROSION BY LIMITING EXPOSURE OF SOILS TO RAINFALL CAN BE USED TO LIMIT DUST INCLUDING: STABILIZING EXPOSED SOILS WITH MULCH, VEGETATION OR PERMANENT COVER. ADDITIONAL METHODS PARTICULAR TO DUST CONTROL INCLUDING MANAGING VEHICLES AND CONSTRUCTION TRAFFIC, ROAD TREATMENT AND TREATMENT OF EXPOSED SOIL WITH CHEMICAL STABILIZERS.
- USED OIL SHALL NOT BE USED AS A DUST SUPPRESSANT. DUST CONTROLS MAY INCLUDE THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TAPPING STOCKPILES, TEMPORARY STABILIZATION OF DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.

SPECIFICATIONS FOR DUST CONTROL:

- 1. VEGETATIVE COVER AND/MULCH APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 14 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS.
- 2. WATERING SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION.
- 3. SPRAY-ON ADHESIVES APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.
- 4. STONE GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- 5. BARRIERS EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
- 6. OPERATION AND MAINTENANCE WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH
- 7. STREET CLEANING PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET—TYPE END LOADER OR SCRAPER.

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS

- OHIO RAINWATER AND LAND DEVELOPMENT MANUAL (2006)

 1. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES REGARDING DISPOSAL AND HANDLING OF HAZARDOUS AND CONSTRUCTION WASTES:
- PREVENT SPILLSUSE PRODUCTS UP
- FOLLOW LABEL DIRECTIONS FOR DISPOSAL
- REMOVE LIDS FROM EMPTY BOTTLES AND CAN WHEN DISPOSING IN TRASH
 RECYCLE WASTES WHENEVER POSSIBLE
- DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
- DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKSDON'T BURY CHEMICALS OR CONTAINERS
- DON'T BURN CHEMICALS OR CONTAINERSDON'T MIX CHEMICALS TOGETHER
- 2. CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS USED ON SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF AT AN OHIO EPA APPROVED CD&D LANDFILL AS REQUIRED BY OHIO REVISED CODE (OHC) 3714.
- 3. NO CONSTRUCTION RELATED WASTE MATERIAL ARE TO BE BURIED ON—SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE SOIL) MAY BE UTILIZED IN A WAY WHICH DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR FLOOD PLAINS OR RESULT IN THE CONTAMINATION OF WATER OF THE STATE.
- 4. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- 5. EQUIPMENT FUELING AND MAINTENANCE. OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREA MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A 0.5 INCH OR GREATER RAINFALL EVENT TO ENSURE THERE ARE NO EXPOSED MATERIAL WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVE GROUND TANK OF 600 GALLONS OR MORE, ACCUMULATIVE ABOVE GROUND STORAGE OF 1,330 GALLONS OR MORE OR 42,000 GALLONS OF UNDERGROUND STORAGE. CONTAMINATED SOILS MUST BE DISPOSED OF IN ACCORDANCE WITH ITEM 8.
- 6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAM, DITCHES, STORM DRAINS OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED.
- 7. SPILL REPORTING REQUIREMENTS. SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL.

 HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL—BASED PAINTS AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILL SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILL OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS WHICH CONTACT WATERS OF THE STATE MUST BE REPORTED TO OHIO EPA.
- 8. CONTAMINATED SOILS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEADED OR RELEASED ONTO THE SOIL, THE SOIL SHALL BE DUG UP AND DISPOSED OF A T A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY. (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). NOTE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 9. OPEN BURNING. NO MATERIALS CONTAINING RUBBER, GREASE, ASPHALT OR PETROLEUM PRODUCTS; SUCH AS TIRES, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE MAY BE BURNED (OAC 3745—19). OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS, WHICH ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS;
- 2) WITHIN 1,000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVE A POPULATION OF
- 1,000 TO 10,000;
 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE.
 OUTSIDE RESTRICTED AREAS, NO OPEN BURNING IS ALLOWED WITHIN A 1,000 FEET OF AN
 INHABITED BUILDING ON ANOTHER PROPERTY. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED
 AREA FOR: HEATING TAR, WELDING, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND
 HEATING FOR WARMTH OR OUTDOOR BARBECUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING

IS PERMISSIBLE FOR LANDSCAPE OR LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR

- WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES, EXCLUDING BUILDINGS.

 10. DUST CONTROL OR DUST SUPPRESSANTS SHALL BE USED TO PREVENT NUISANCE CONDITIONS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND IN A MANNER, WHICH PREVENT A DISCHARGE TO WATERS OF THE STATE. SUFFICIENT DISTANCE MUST BE PROVIDED BETWEEN APPLICATIONS AND NEARBY BRIDGES, CATCH BASINS, AND OTHER WATERWAYS. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN RAIN IS IMMINENT AS NOTED IN THE SHORT TERM
- FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.

 11. OTHER AIR PERMITTING REQUIREMENTS: CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS INCLUDING BUT NOT LIMITED TO: MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. THESE ACTIVITIES WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. OPERATORS MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. FOR DEMOLITION OF ALL COMMERCIAL SITES, A NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA TO DETERMINE IF ASBESTOS CORRECTIVE ACTIONS ARE REQUIRED.
- 12. PROCESS WASTE WATER/LEACHATE MANAGEMENT. OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER AND DOES NOT INCLUDE OTHER WASTE STREAMS/DISCHARGES SUCH AS VEHICLE AND/OR EQUIPMENT WASHING, ON—SITE SEPTIC LEACHATE, CONCRETE WASH—OUTS, WHICH ARE CONSIDERED PROCESS WASTEWATERS. ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT, LEACHATE OR SEPTAGE IS DISCHARGED; IT MUST BE ISOLATED FOR COLLECTION AND PROPER DISPOSAL AND CORRECTIVE ACTIONS TAKEN TO ELIMINATE THE SOURCE OF WASTE WATER.
- 13. A PERMIT TO INSTALL (PTI) IS REQUIRED PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVICE ONE, TWO AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. PLANS MUST BE SUBMITTED AND APPROVED BY OHIO EPA. ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.
- 14. POTENTIALLY TURBID WATER MUST PASS THROUGH A FILTER BAG, SUMP PIT, OR OTHER SEDIMENT REMOVAL DEVICE PRIOR TO BEING DISCHARGED OFF—SITE.

PRE—CONSTRUCTION SWPPP MEETING

PRIOR TO CONSTRUCTION THE PERMITTEE SHALL INFORM ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH THE IMPLEMENTATION OF THE SWPPP AND OF THE TERMS AND CONDITIONS OF THE OHIO EPA CONSTRUCTION GENERAL PERMIT. THE PERMITTEE SHALL MAINTAIN A WRITTEN DOCUMENT CONTAINING SIGNATURES AS PROOF OF ACKNOWLEDGMENT OF THE CONDITIONS AND RESPONSIBILITIES OF THE SWPPP.

INSPECTION DURING CONSTRUCTION

REGULAR INSPECTION AND MAINTENANCE IS TO BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES DURING CONSTRUCTION. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD AND FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES. INSPECTIONS BY QUALIFIED INSPECTION PERSONNEL MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THEN 0.5 INCHES OF RAIN IN A 24—HOUR PERIOD. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE IS REQUIRED, IT MUST BE REPAIRED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF INSPECTION. INSPECTION REPORT SHALL PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CORRECTIVE MEASURES TAKEN TO COMPLY WITH THE REQUIREMENTS IN "RAINWATER & LAND DEVELOPMENT" (2006) AND SIGNED BY THE QUALIFIED INSPECTOR. MISSING BMPS REQUIRED BY THE SWPPP ARE REQUIRED TO BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION. IF DURING INSPECTIONS IT IS DETERMINED THAT A BMP IS NOT EFFECTIVE AND THAT ANOTHER BMP IS NEEDED TO PROVIDE ADEQUATE CONTROL ON SITE, THE SWPPP SHALL BE AMENDED AND THE BMP SHALL BE INSTALLED WITHIN 10 DAYS FROM THE DATE OF INSPECTION.

IF SITE IS DORMANT FOR A LONG PERIOD AND IS STABILIZED A WAIVER REQUEST MAY BE SUBMITTED TO THE OHIO EPA TO REDUCE SITE INSPECTIONS TO A MONTHLY BASIS.

POST CONSTRUCTION

UPON COMPLETION OF SITE STABILIZATION, A NOTICE OF TERMINATION SHALL BE FILED WITH THE OHIO EPA. THE RESPONSIBLE PARTY SHALL COMPILE ALL INSPECTIONS, SIGN CERTIFICATION ON THE TITLE SHEET AND KEEP RECORDS FOR A MINIMUM OF 3 YEARS AFTER THE NOTICE OF TERMINATION WAS FILED.

POST CONSTRUCTION INSPECTION AND MAINTENANCE OF POST CONSTRUCTION BMPS SHALL BE THE RESPONSIBILITY OF THE DEVELOPMENT OWNER. INSPECTION SHALL BE DONE BY A CONTRACTOR SUITED FOR SUCH INSPECTIONS AND FUNDED BY THE DEVELOPMENT OWNER. CONTRACTOR SHALL REPORT FINDINGS DIRECTLY TO THE DEVELOPMENT OWNER.



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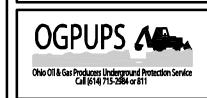
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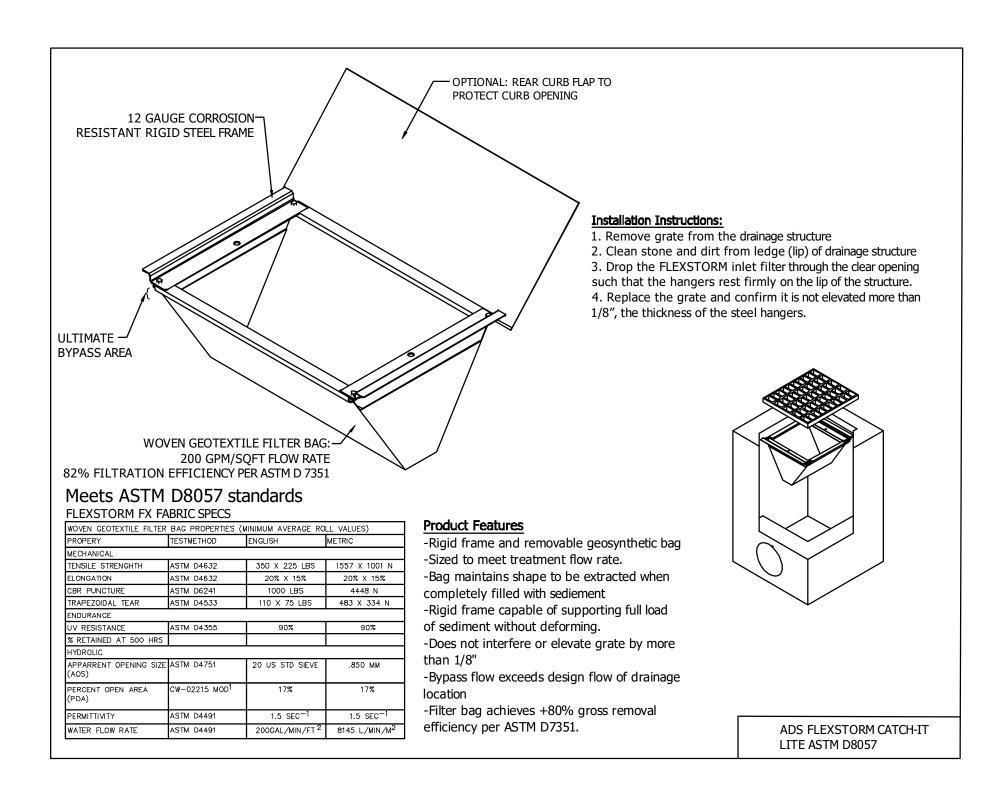
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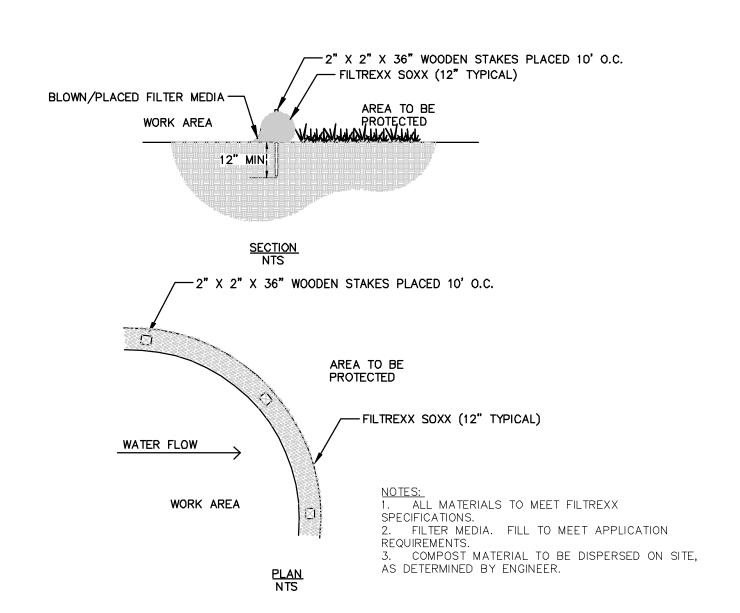
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Silities Protection Service



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FILTREXX SEDIMENT CONTROL

<u>Concrete Washout Areas</u>

Installation:

Concrete wash water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance and washout pits shall be situated a minimum of fifty (50) feet from them.
 Field tile or other subsurface drainage structures within 10 ft. of the sump shall

be cut and plugged.
3. Ensure a stable path is provided for concrete trucks to reach the washout

4. A highly visible sign that reads "Concrete Washout Area" shall be erected adjacent to the washout pit.

5. Surface runoff generated from upslope greas shall be diverted away from

5. Surface runoff generated from upslope areas shall be diverted away from below—grade washout pits so as not to flow into them.
6. A single centralized washout area may be utilized for multiple sublots.

Maintenance:

7. The washout pit must be inspected frequently to ensure the liner is intact.
8. Once 75% of the original volume of the washout pit is filled or is the liner is torn, the material must be removed and properly disposed of once it is completely hardened. Once the hardened concrete is removed, the liner must be replaced (if torn). A new pit must be constructed if the original structure is no longer suitable.

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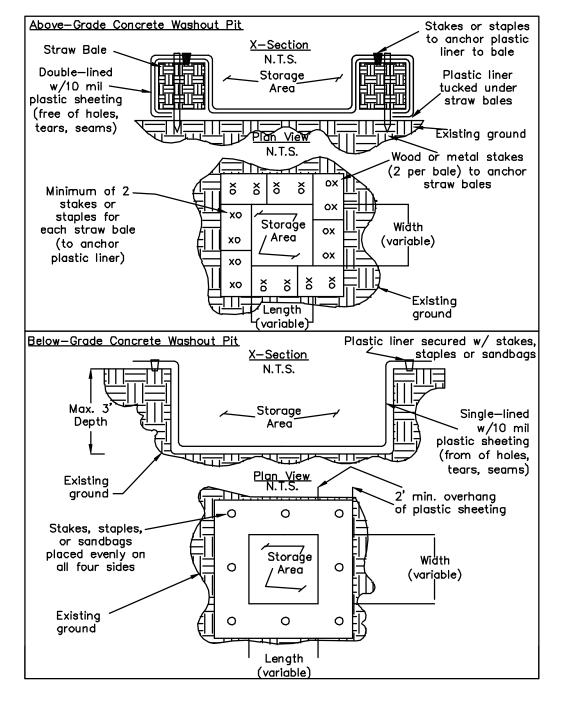
9. Once the washout pit is no longer needed, ensure all washout material has been completely hardened, then remove and properly dispose of all materials. If straw bales were used, they can be spread as mulch.

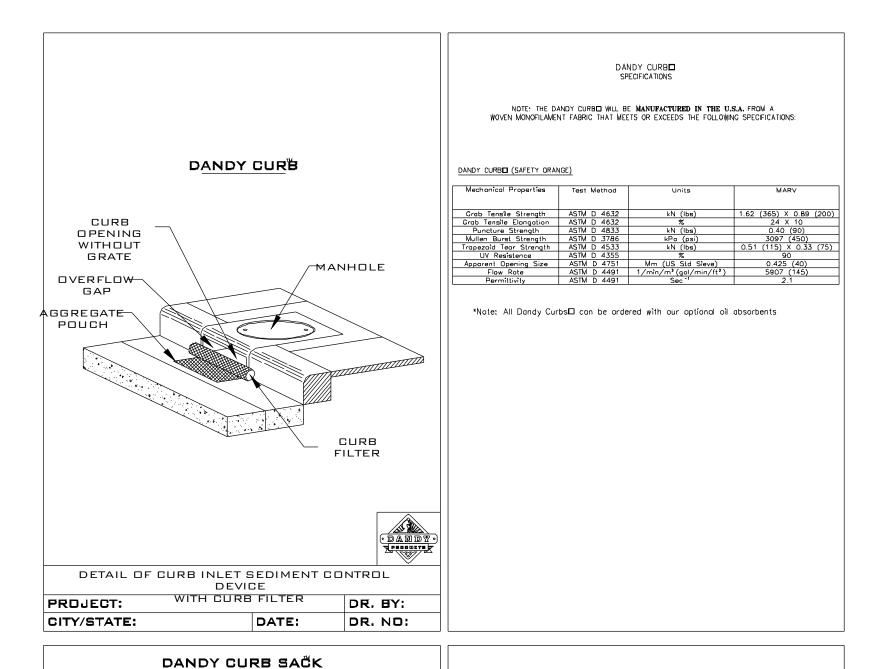
10. Prefabricated containers specifically designed for concrete washout collection may be used subject to prior approval by the Community Engineer. Follow the manufacturer's suggestions for installation, maintenance and removal procedures.

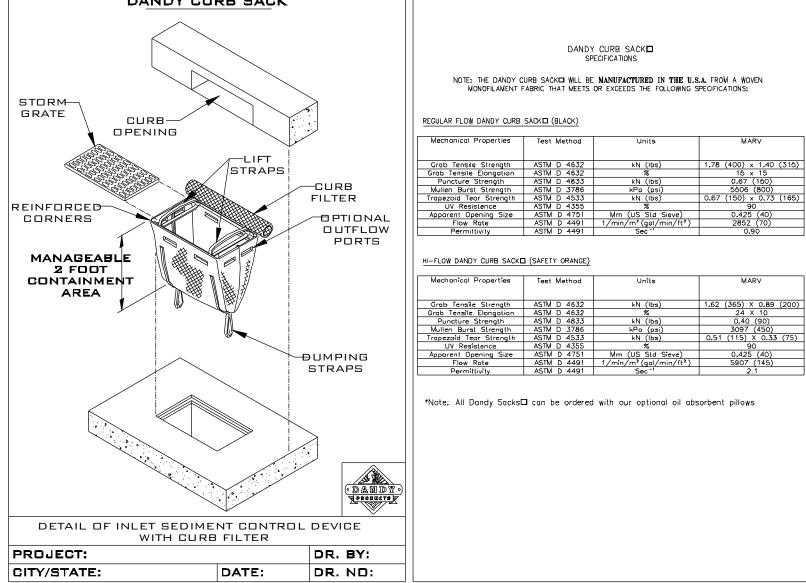
Sizing of Concrete Washout Pits

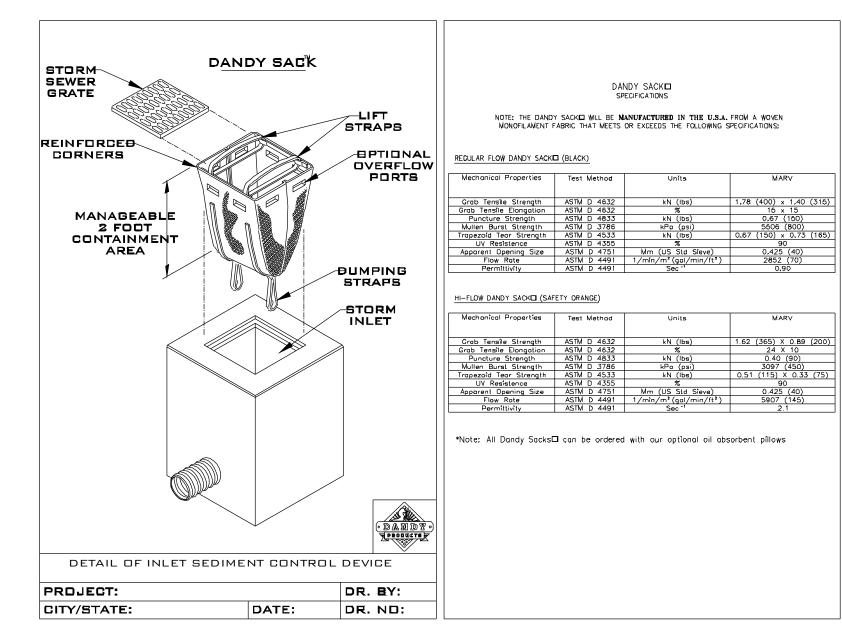
Below-grade (3-ft depth)		Above-grade (2-ft depth)			
# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)	# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)
2-3	3	3	2	3	3
4-5	4	4	3–4	4	4
6-7	5	5	5–6	5	5
		•	7–8	6	6
8–10	6	6	9-11	7	7
11–14	7	7	12-15	8	8

*For small projects using a maximum of only one truckload of concrete or utilizing on—site mixing, rinsing of equipment may take place on the lot without a pit, provided it can be done on a maximum of fifty (50) feet away from any water conveyances











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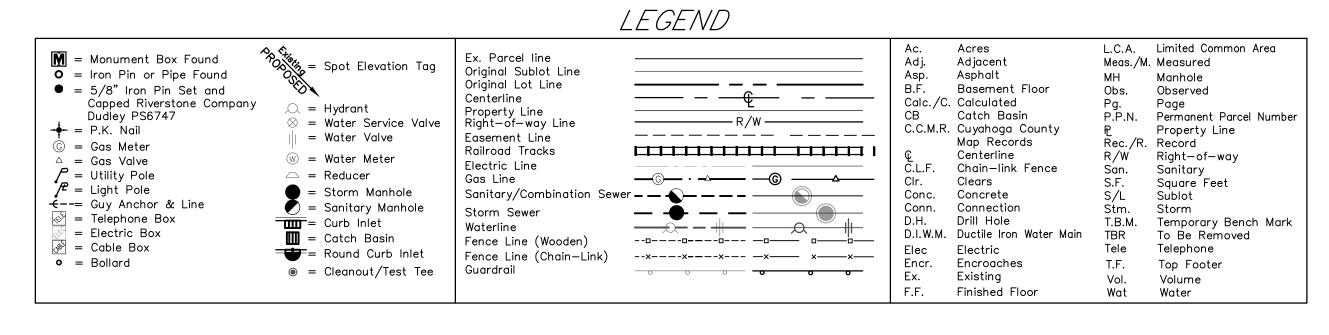
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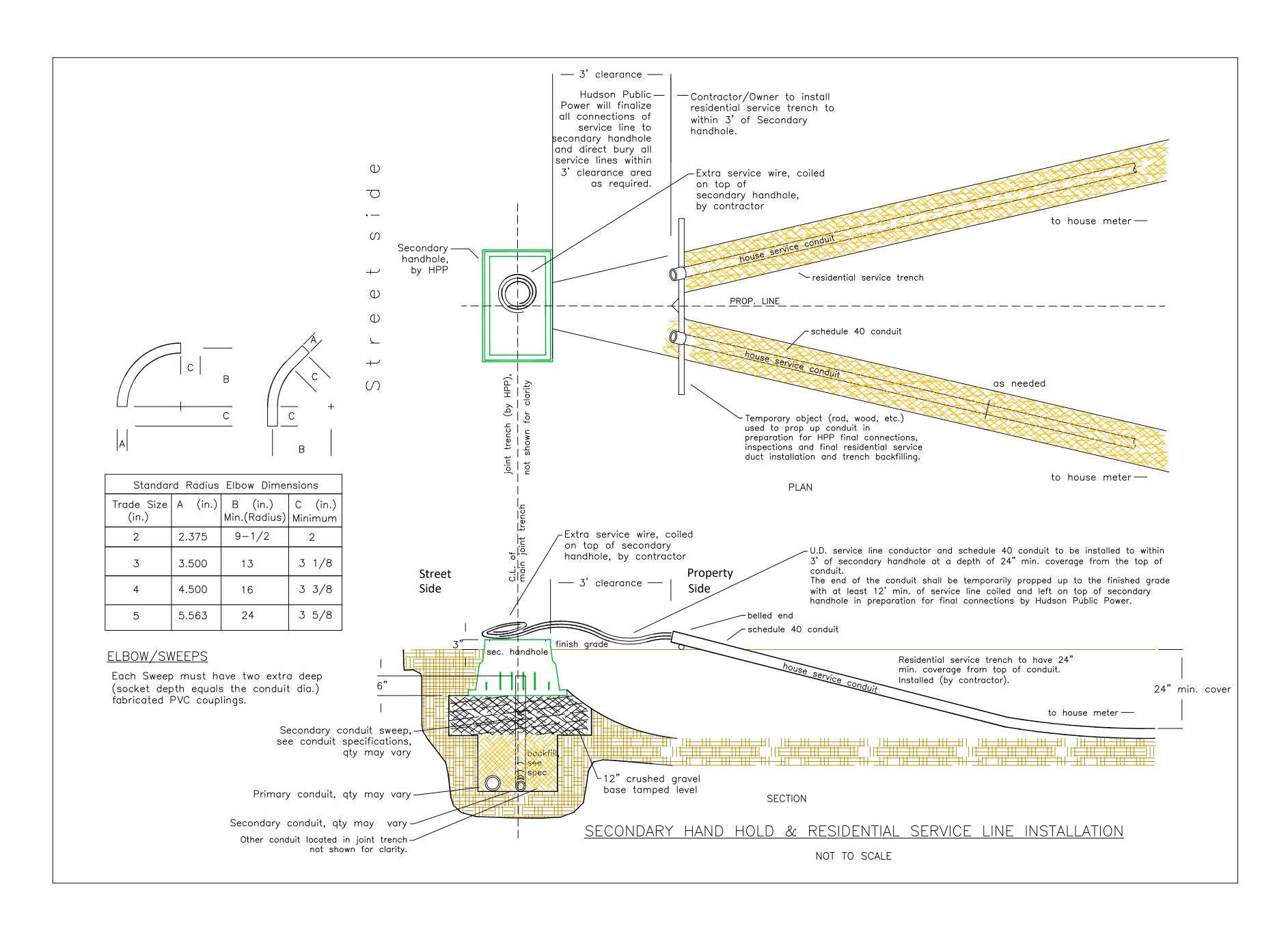
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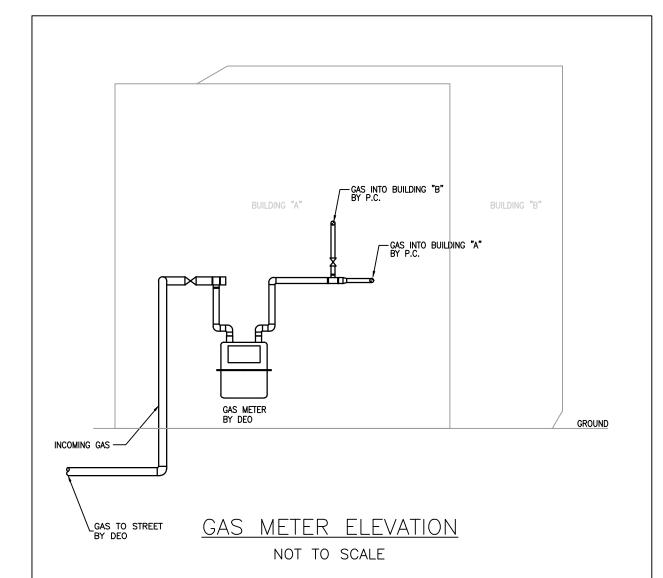


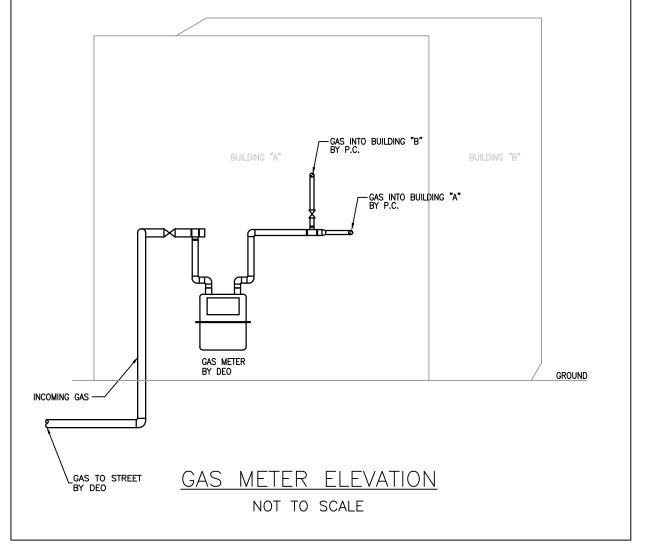


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Plan Revisions

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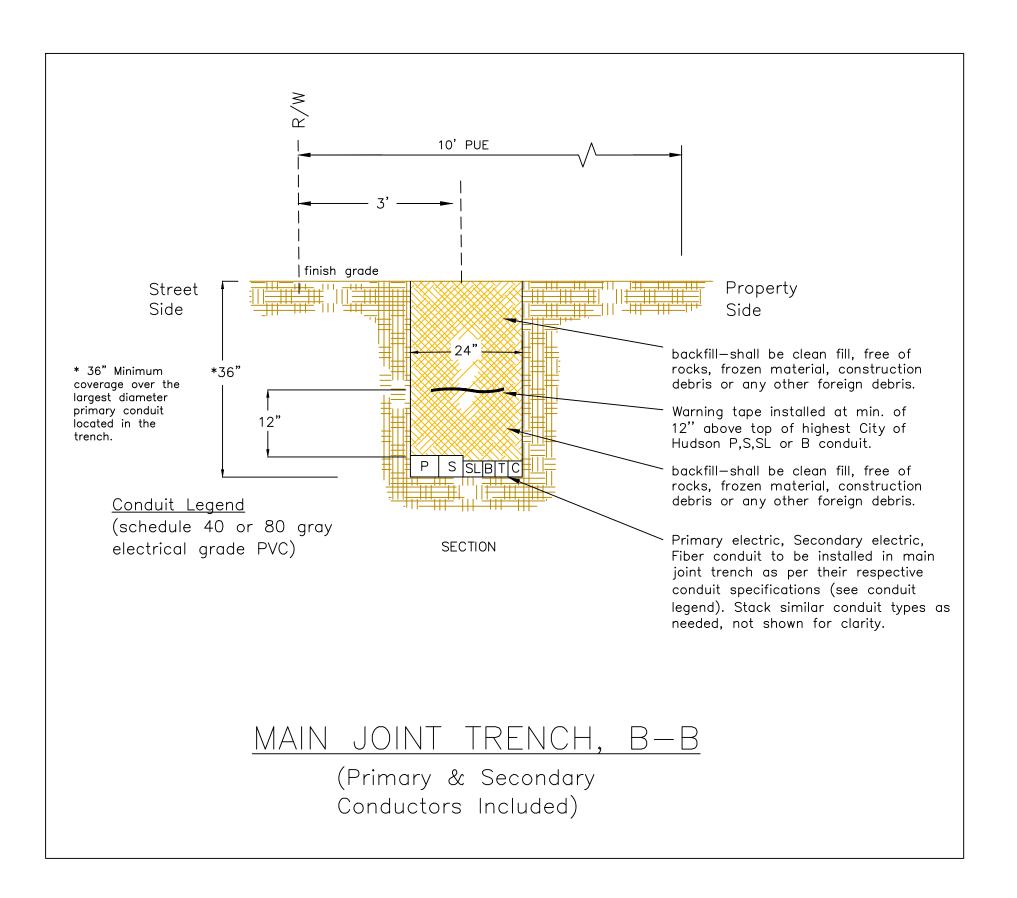
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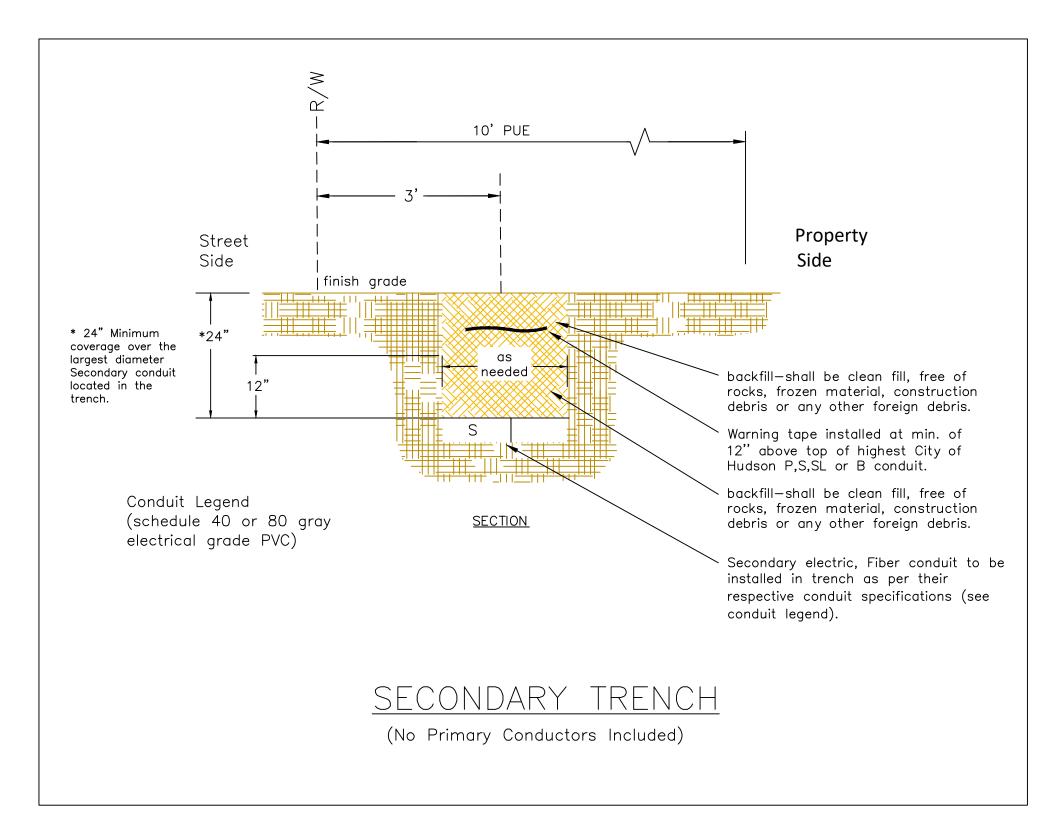


GRAPHIC SCALE

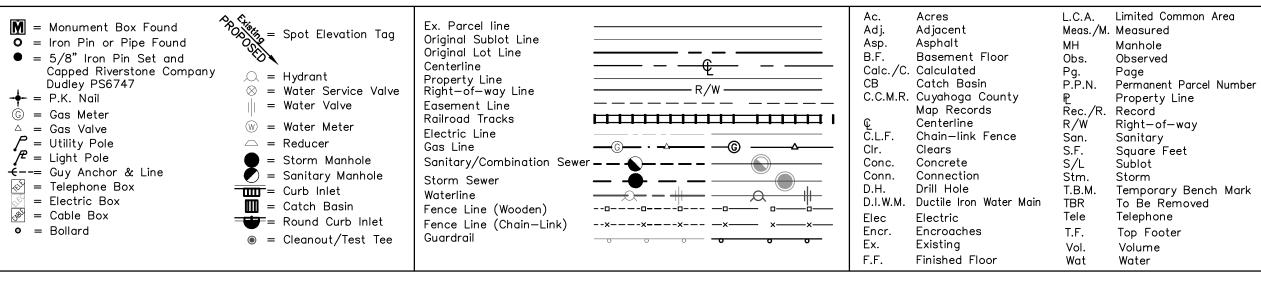
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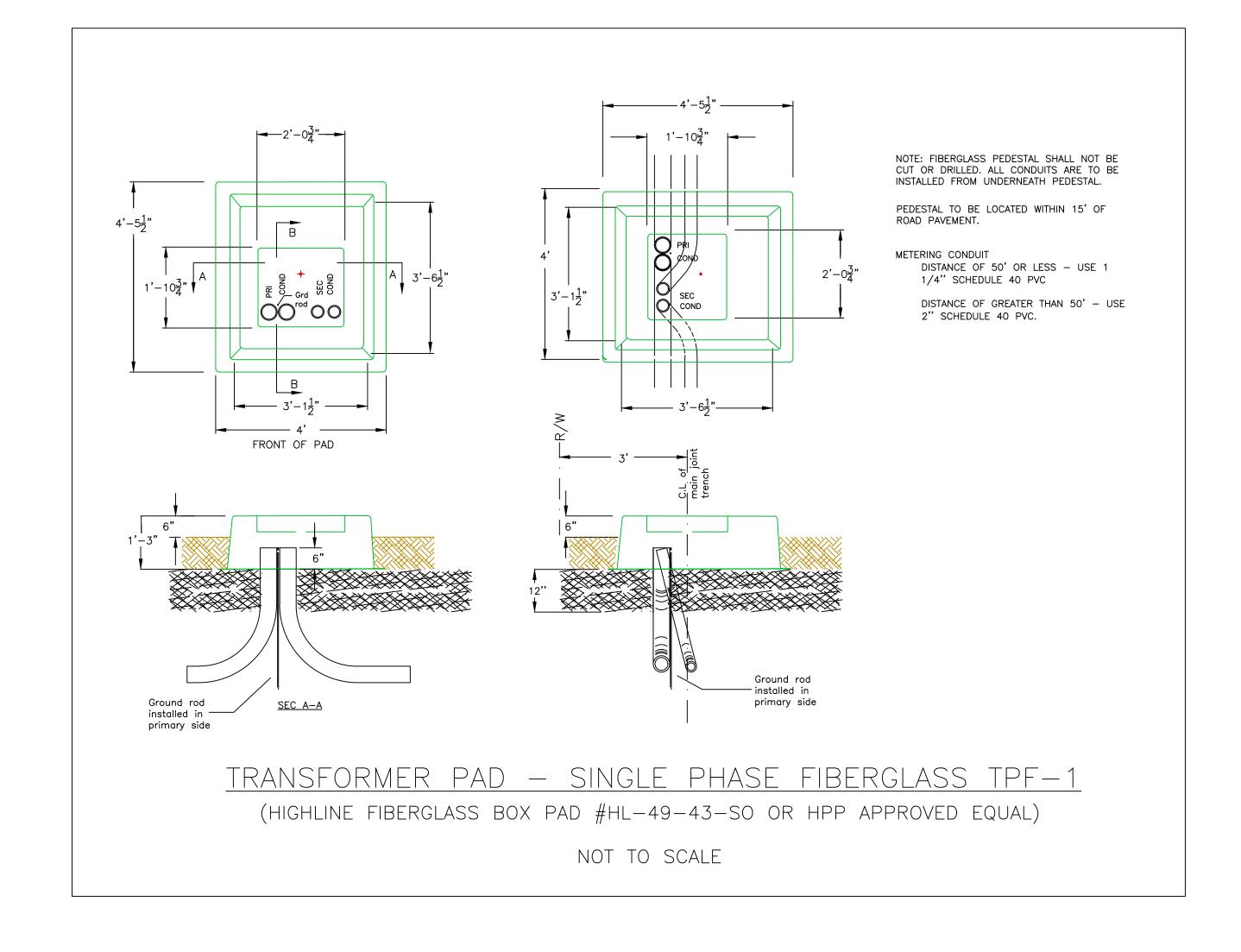






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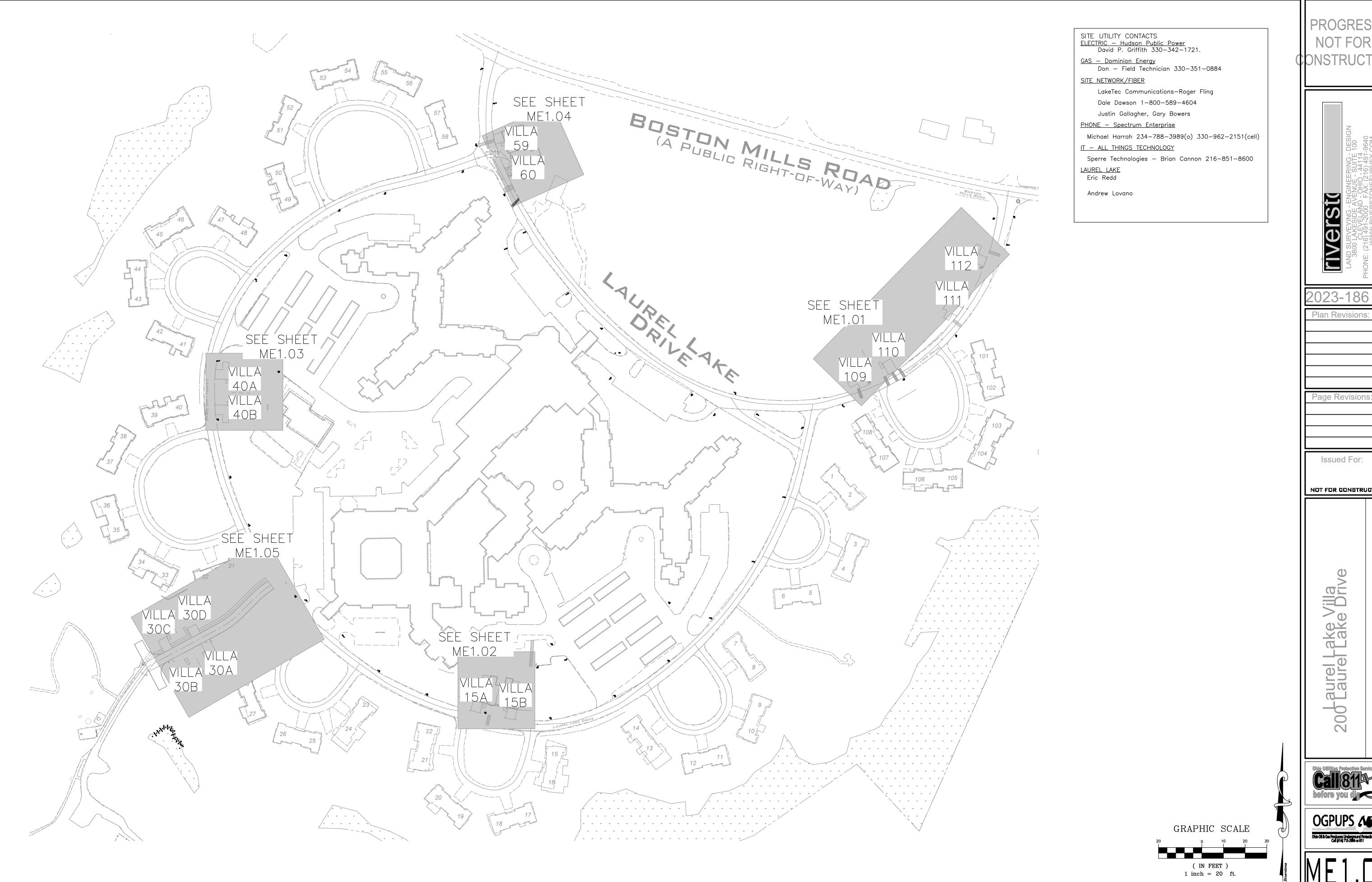
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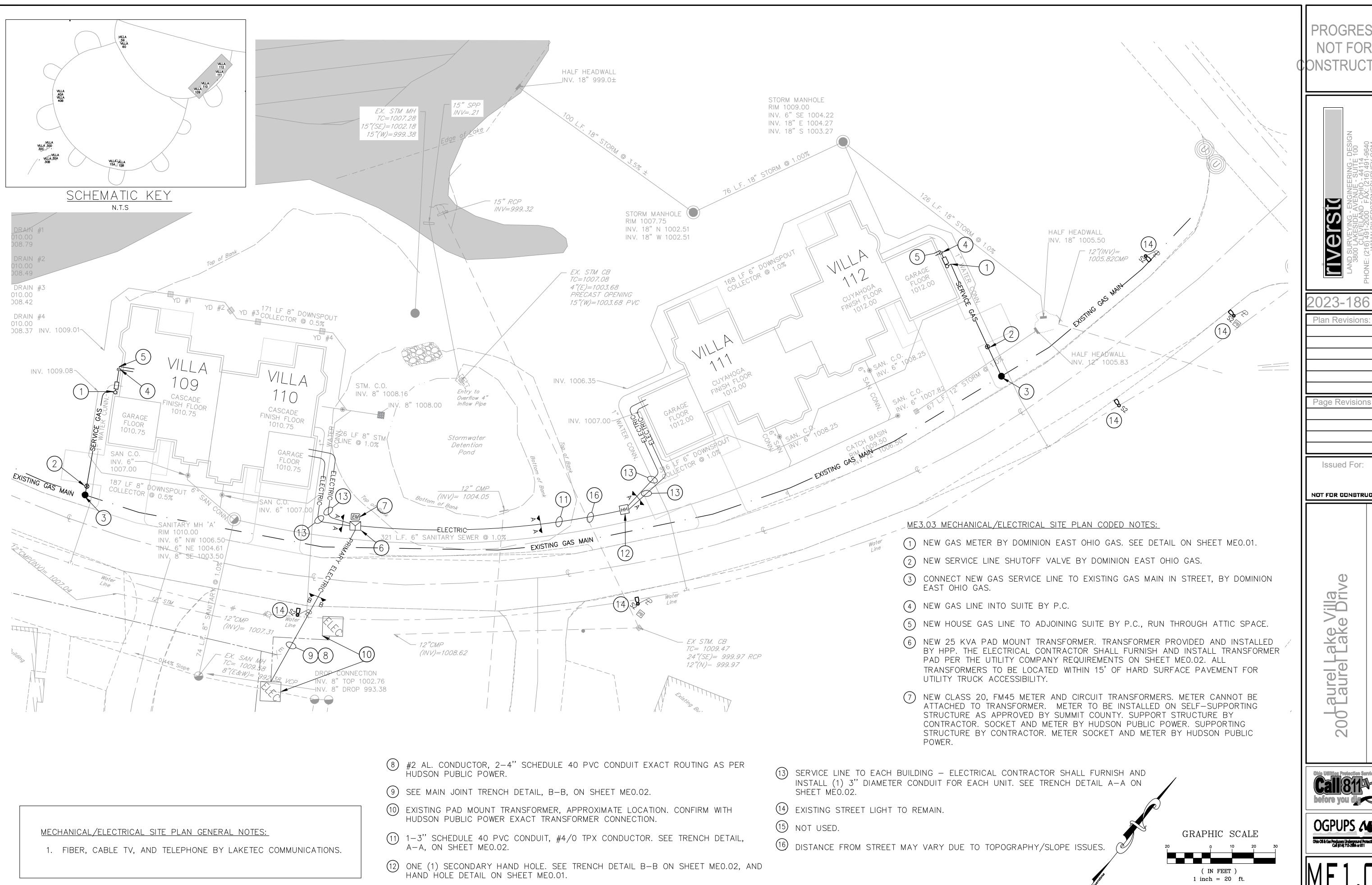
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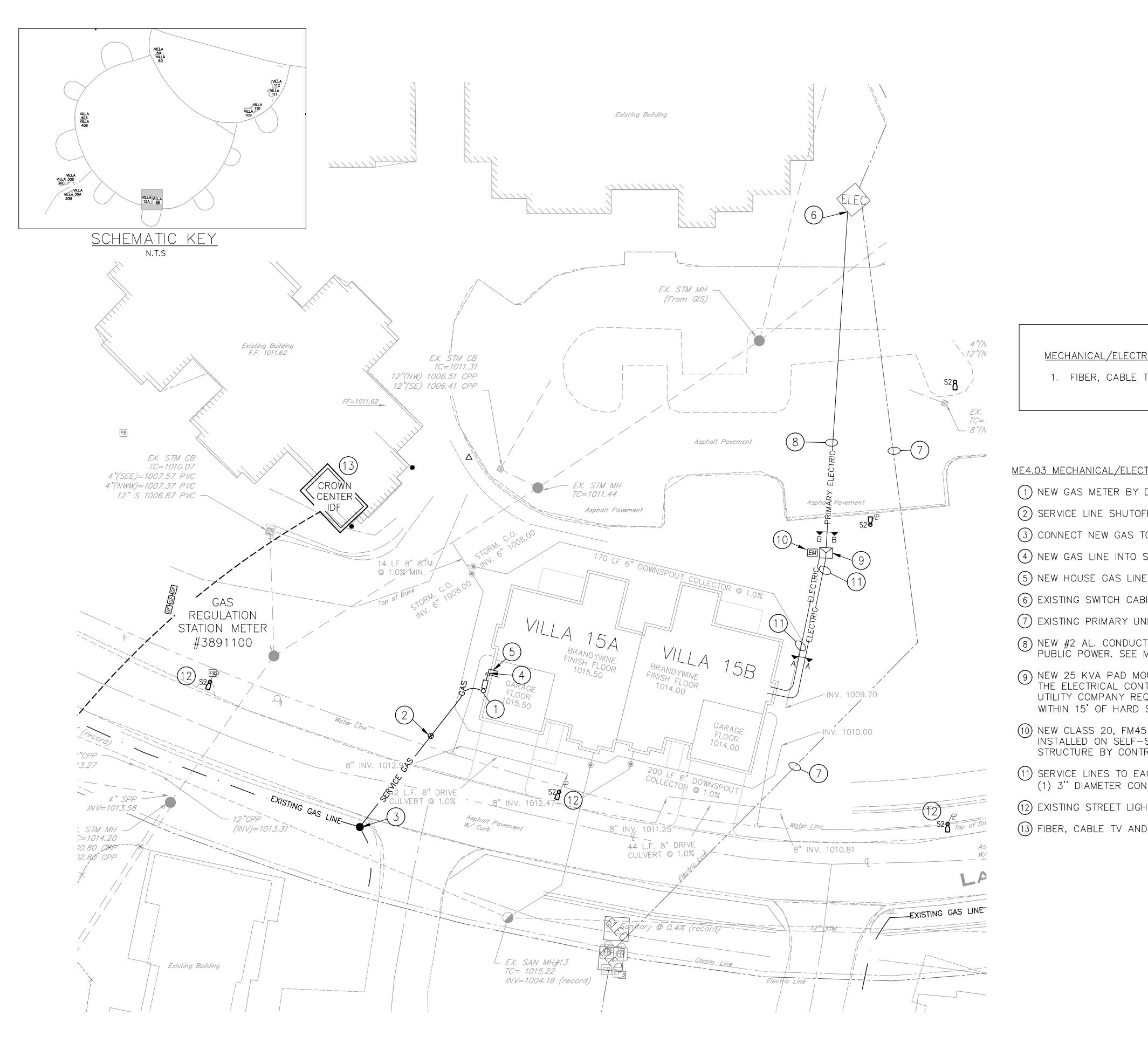


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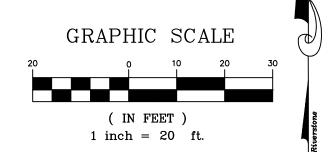


MECHANICAL/ELECTRICAL SITE PLAN GENERAL NOTES:

1. FIBER, CABLE TV, AND TELEPHONE BY LAKETEC COMMUNICATIONS.

ME4.03 MECHANICAL/ELECTRICAL SITE PLAN CODED NOTES:

- 1) NEW GAS METER BY DOMINION EAST OHIO GAS. SEE DETAIL ON MEO.01.
- 2 SERVICE LINE SHUTOFF VALVE FOR INCOMING GAS LINE.
- 3 CONNECT NEW GAS TO EXISTING GAS MAIN IN STREET, BY DOMINION EAST OHIO.
- 4 NEW GAS LINE INTO SUITE BY P.C.
- (5) NEW HOUSE GAS LINE TO ADJOINING SUITE BY P.C., RUN THROUGH ATTIC SPACE.
- (6) EXISTING SWITCH CABINET #50 TO REMAIN.
- (7) EXISTING PRIMARY UNDERGROUND TO REMAIN.
- (8) NEW #2 AL. CONDUCTOR, 2-4" SCHEDULE 40 PVC CONDUIT. EXACT ROUTE AS PER HUDSON PUBLIC POWER. SEE MAIN JOINT TRENCH DETAIL, B-B, ON SHEET MEO.02.
- 9 NEW 25 KVA PAD MOUNT TRANSFORMER. TRANSFORMER PROVIDED AND INSTALLED BY HPP. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFORMER PAD PER THE UTILITY COMPANY REQUIREMENTS ON SHEET MEO.O2. ALL TRANSFORMERS TO BE LOCATED WITHIN 15' OF HARD SURFACED PAVEMENT FOR UTILITY ACCESSIBILITY.
- (10) NEW CLASS 20, FM45 METER. METER CANNOT BE ATTACHED TO TRANSFORMER. METER TO BE INSTALLED ON SELF-SUPPORTING STRUCTURE AS APPROVED BY SUMMIT COUNTY. SUPPORTING STRUCTURE BY CONTRACTOR. METER SOCKET AND METER BY HUDSON PUBLIC POWER.
- (11) SERVICE LINES TO EACH BUILDING ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) 3" DIAMETER CONDUIT FOR EACH UNIT. SEE TRENCH DETAIL, A-A, ON SHEET MEO.02.
- (12) EXISTING STREET LIGHT TO REMAIN.
- (13) FIBER, CABLE TV AND TELEPHONE BY LAKETEC COMMUNICATIONS.



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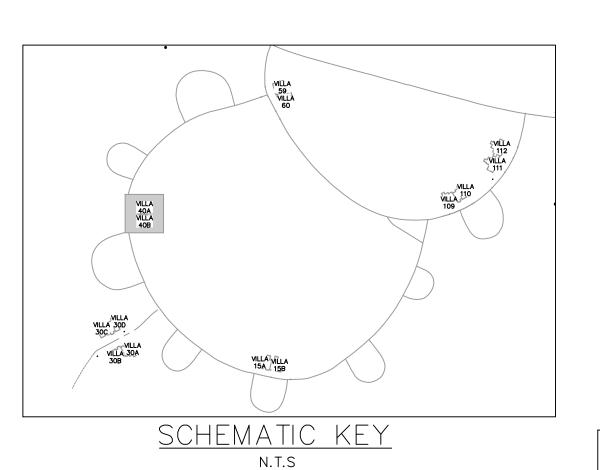
Plan Revisions

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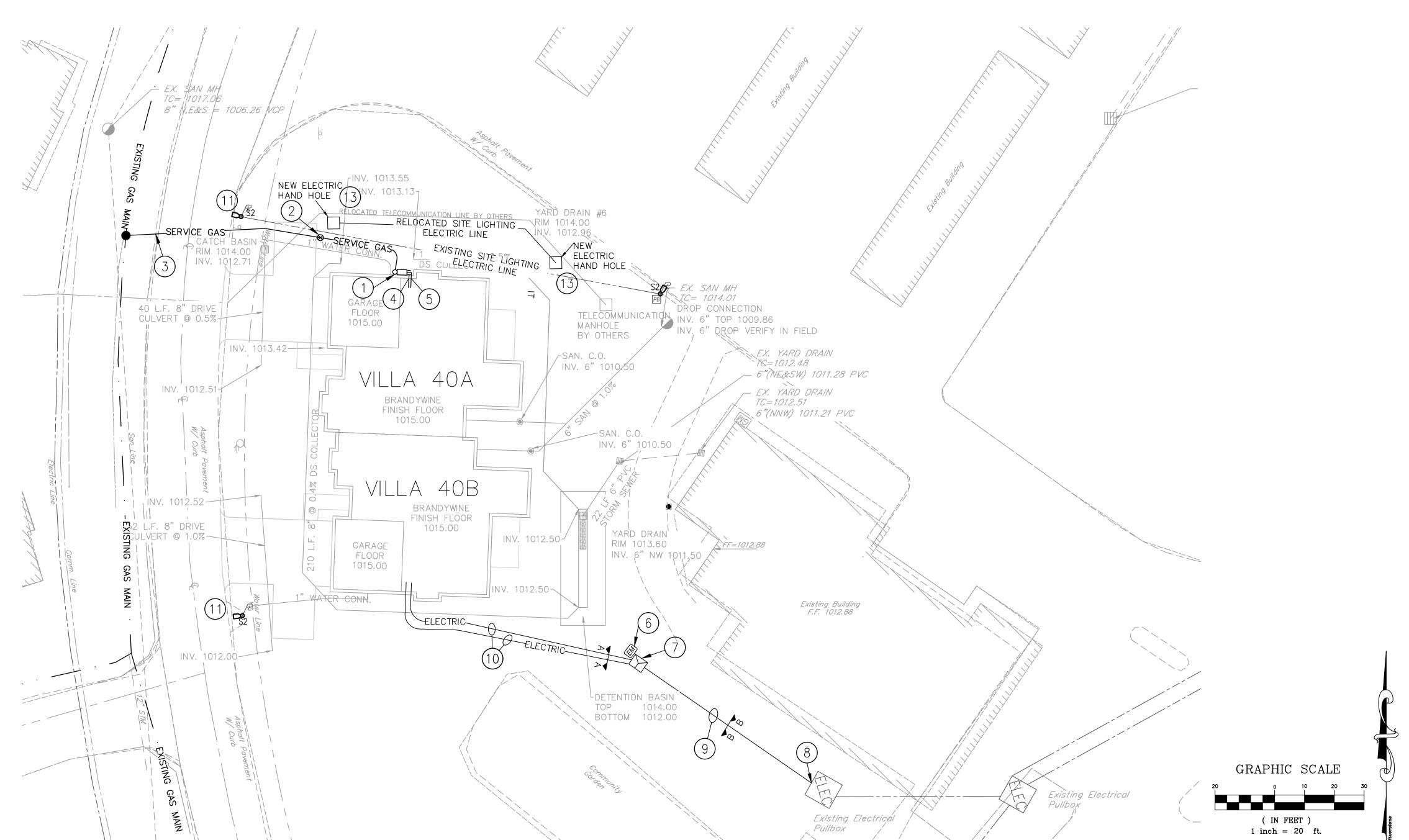


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- (8) EXISTING 3-PHASE PAD MOUNT TRANSFORMER TO REMAIN.
- (9) SEE MAIN JOINT TRENCH DETAIL, B-B, ON MEO.02.
- (10) SERVICE LINES TO EACH BUILDING ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) 3" DIAMETER CONDUIT FOR EACH UNIT. SEE TRENCH DETAIL A—A ON SHEET MEO.02.
- (11) EXISTING STREET LIGHT TO REMAIN.
- (12) NOT USED.
- (13) INTERCEPT EXISTING SITE LIGHTING CONDUCTORS. ROUTE AROUND NEW CONSTRUCTION.



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RVEYING - ENGINEERING - DESIGN
-AKESIDE AVENUE - SUITE 100
CLEVELAND - OHIO - 44114
) 491-2000 FAX: (216) 491-9640
WW.RIVERSTONESURVEY.COM

2023-186

Plan Revisions:

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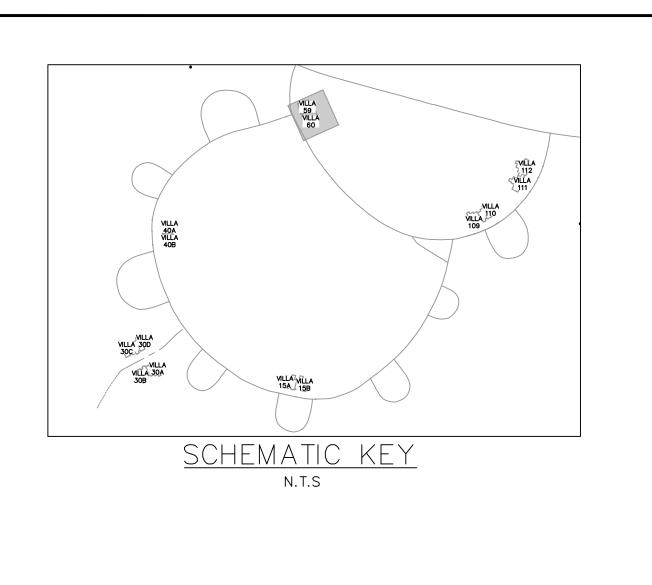
AN - BUILDING 4

200 Laurel Lake Villa 200 Laurel Lake Drive





ME1.03



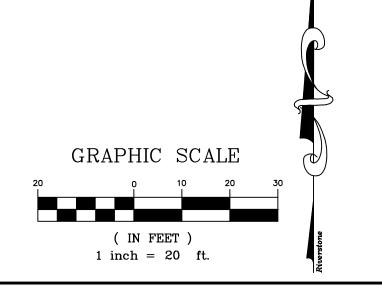


MECHANICAL/ELECTRICAL SITE PLAN GENERAL NOTES:

1. FIBER, CABLE TV, AND TELEPHONE BY LAKETEC COMMUNICATIONS.

ME 6.03 MECHANICAL/ELECTRICAL SITE PLAN CODED NOTES:

- 1) NEW GAS METER BY DOMINION EAST OHIO GAS. SEE DETAIL ON SHEET MEO.01.
- 2 NEW SERVICE LINE SHUTOFF VALVE BY DOMINION EAST OHIO GAS.
- 3 CONNECT NEW GAS SERVICE LINE TO EXISTING GAS MAIN IN STREET, BY DOMINION EAST OHIO GAS.
- (4) NEW GAS LINE INTO SUITE BY P.C.
- 5) NEW HOUSE GAS LINE TO ADJOINING SUITE BY P.C., RUN THROUGH ATTIC SPACE.
- 6) 210' APPROXIMATE DISTANCE FROM EXISTING SWITCH CABINET #10 TO PROPOSED PAD MOUNT TRANSFORMER. SEE MAIN JOINT TRENCH DETAIL, B-B, ON SHEET ME0.02.
- (7) NEW 25 KVA PAD MOUNT TRANSFORMER. TRANSFORMER PROVIDED AND INSTALLED BY HPP. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFORMER PAD PER THE UTILITY COMPANY REQUIREMENTS ON SHEET MEO.02. TRANSFORMER TO BE LOCATED WITHIN 15' OF HARD SURFACE PAVEMENT FOR UTILITY TRACK ACCESSIBILITY.
- (8) NEW CLASS 20, FM45 METER AND CIRCUIT TRANSFORMERS. METER CANNOT BE ATTACHED TO TRANSFORMER. METER TO BE INSTALLED ON SELF-SUPPORTING STRUCTURE AS APPROVED BY SUMMIT COUNTY. STRUCTURE BY CONTRACTOR. METER SOCKET AND METER BY HUDSON PUBLIC POWER.
- (9) #2 AL CONDUCTOR 2-4" SCHEDULE 40 PVC CONDUIT.
- (10) SERVICE LINES TO EACH BUILDING ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) 3" DIAMETER CONDUIT FOR EACH UNIT. SEE TRENCH DETAIL, A-A, ON SHEET ME0.02.
- (11) EXISTING STREET LIGHT TO REMAIN.



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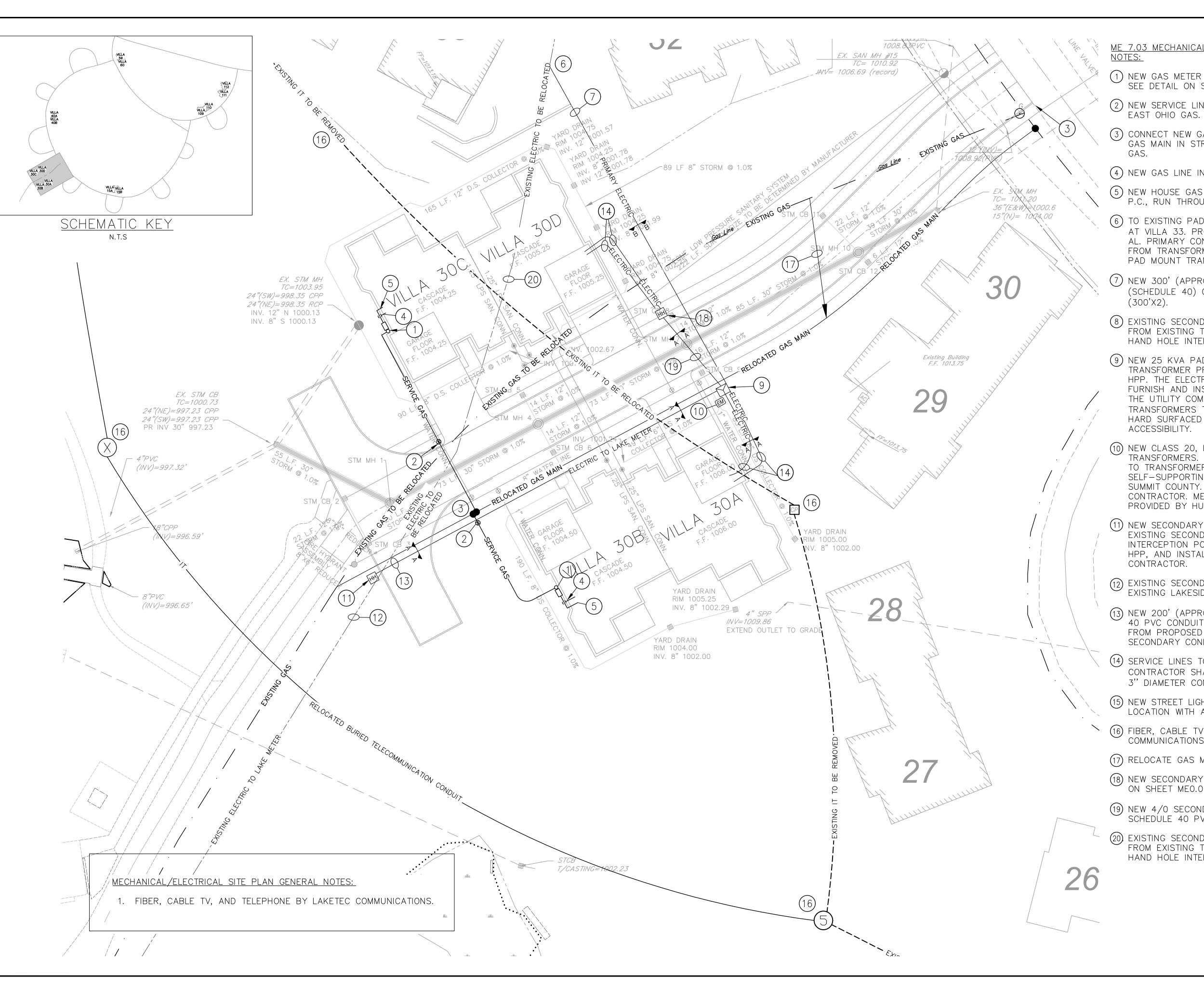
Page Revisions

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Of Laurel Lake Villa Of Laurel Lake Drive





ME 7.03 MECHANICAL/ELECTRICAL SITE PLAN CODED

- (1) NEW GAS METER BY DOMINION EAST OHIO GAS. SEE DETAIL ON SHEET MEO.01.
- (2) NEW SERVICE LINE SHUTOFF VALVE BY DOMINION
- (3) CONNECT NEW GAS SERVICE LINE TO EXISTING GAS MAIN IN STREET, BY DOMINION EAST OHIO
- (4) NEW GAS LINE INTO SUITE BY P.C.
- 5 NEW HOUSE GAS LINE TO ADJOINING SUITE BY P.C., RUN THROUGH ATTIC SPACE.
- (6) TO EXISTING PAD MOUNT TRANSFORMER LOCATED AT VILLA 33. PROPOSED 300' (APPROXIMATE) #2 AL. PRIMARY CONDUCTOR TO BE INSTALLED FROM TRANSFORMER AT VILLA 33 TO PROPOSED PAD MOUNT TRANSFORMER AT NEW BUILDING 8.
- (7) NEW 300' (APPROXIMATE) 4" DIAMETER PVC (SCHEDULE 40) CONDUITS, TWO (2) TOTAL,
- (8) EXISTING SECONDARY DUCT TO BE ABANDONED FROM EXISTING TRANSFORMER TO SECONDARY HAND HOLE INTERCEPTION.
- (9) NEW 25 KVA PAD MOUNT TRANSFORMER. TRANSFORMER PROVIDED AND INSTALLED BY HPP. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TRANSFORMER PAD PER THE UTILITY COMPANY REQUIREMENTS. ALL TRANSFORMERS TO BE LOCATED WITHIN 15' OF HARD SURFACED PAVEMENT FOR UTILITY TRUCK
- (10) NEW CLASS 20, FM45 METER AND CIRCUIT TRANSFORMERS. METER CANNOT BE ATTACHED TO TRANSFORMER. METER TO BE INSTALLED ON SELF-SUPPORTING STRUCTURE AS APPROVED BY SUMMIT COUNTY. SUPPORTING STRUCTURE BY CONTRACTOR. METER AND METER SOCKET PROVIDED BY HUDSON PUBLIC POWER.
- (11) NEW SECONDARY HAND HOLE AT POINT WHERE EXISTING SECONDARY CONDUIT AND PROPOSED INTERCEPTION POINT. HAND HOLE PROVIDED BY HPP, AND INSTALLED BY THE ELECTRICAL
- (12) EXISTING SECONDARY CONDUIT TO REMAIN TO EXISTING LAKESIDE METER.
- (13) NEW 200' (APPROXIMATE) 3" DIAMETER SCHEDULE 40 PVC CONDUIT AND SECONDARY CONDUCTOR FROM PROPOSED TRANSFORMER TO EXISTING SECONDARY CONDUIT INTERCEPTION POINT.
- (14) SERVICE LINES TO EACH BUILDING ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (1) 3" DIAMETER CONDUIT FOR EACH UNIT.
- (15) NEW STREET LIGHT, MATCH EXISTING. CONFIRM LOCATION WITH ARCHITECT.
- (16) FIBER, CABLE TV AND TELEPHONE BY LAKETEC COMMUNICATIONS.
- (17) RELOCATE GAS MAIN.
- (18) NEW SECONDARY HAND HOLE. SEE HPP DETAILS ON SHEET MEO.01.
- (19) NEW 4/0 SECONDARY TRIPLEX IN 1-3" SCHEDULE 40 PVC CONDUIT.
- (20) EXISTING SECONDARY DUCT TO BE ABANDON FROM EXISTING TRANSFORMER TO SECONDARY HAND HOLE INTERCEPTION.

GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

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-aurel Lake Laurel Lake

LAUREL LAKE VILLAS

HUDSON, OHIO

SCHEMATIC DESIGN PACKAGE: DECEMBER 5TH, 2023

PROJECT TEAM

OWNER:

LAUREL LAKE RETIREMENT COMMUNITY

HUDSON, OHIO 44236

DIRECTOR OF ENVIRONMENTAL SERVICES PHONE: 330 - 655 - 1412

E-MAIL: EREDD@LAURELLAKE.ORG

CIVIL ENGINEER:

MAILING ADDRESS: 3800 LAKESIDE AVENUE, SUITE 100

CONTACT: JEFF JARDINE, PROJECT ENGINEER E-MAIL:

ARCHITECT:

RDL ARCHITECTS
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INTERIOR DESIGN:

RDL ARCHITECTS

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CONTACT: KATALIN SIGNS

TITLE: INTERIOR DESIGN DIRECTOR 216-752-4300

PHONE: E-MAIL: KATALIN@RDLARCHITECTS.COM









DRAWING INDEX

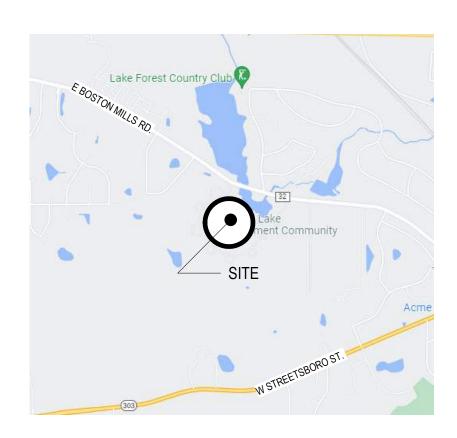
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'CUYAHOGA' EXTERIOR ELEVATIONS



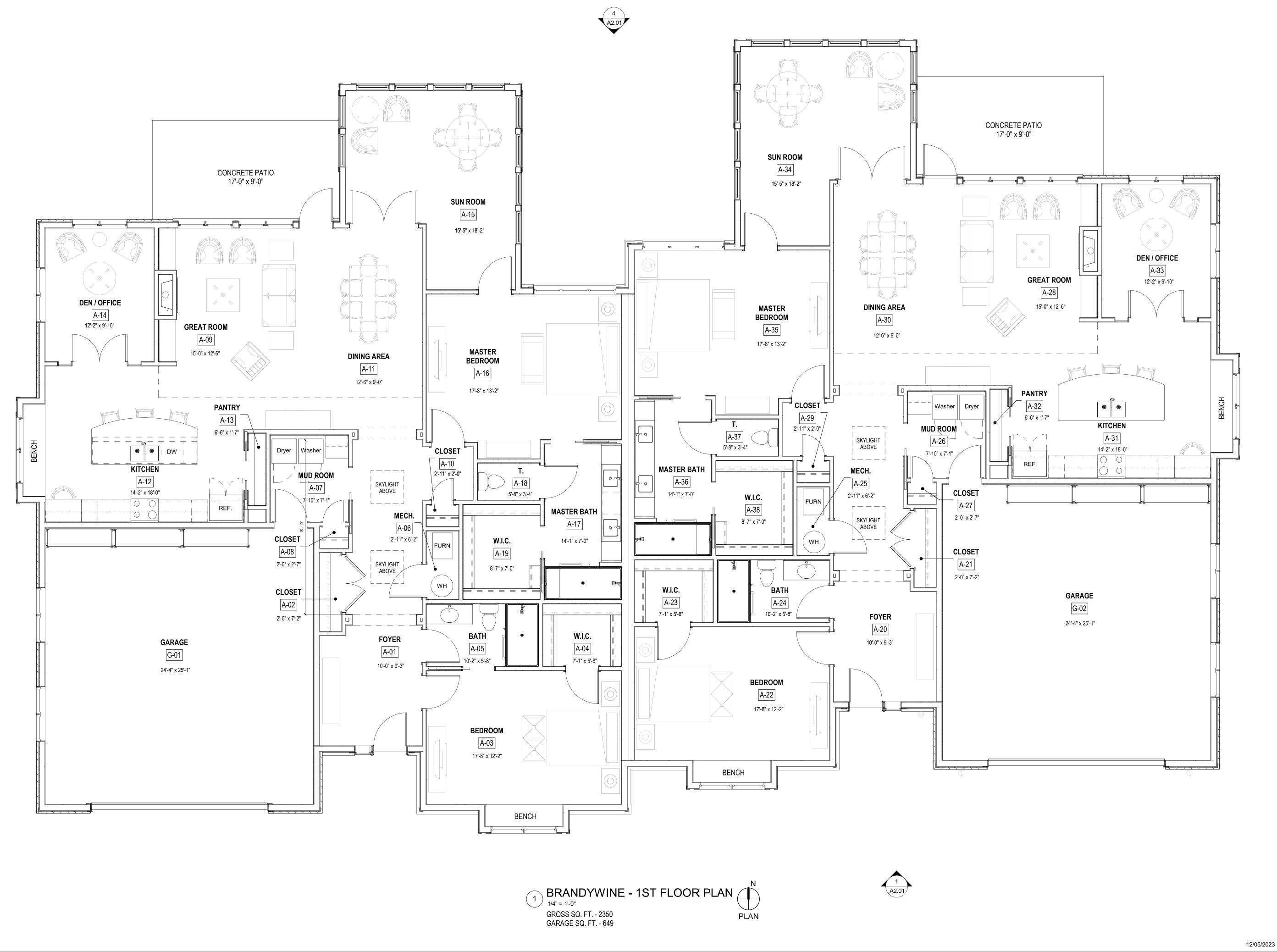


LOCATION MAP











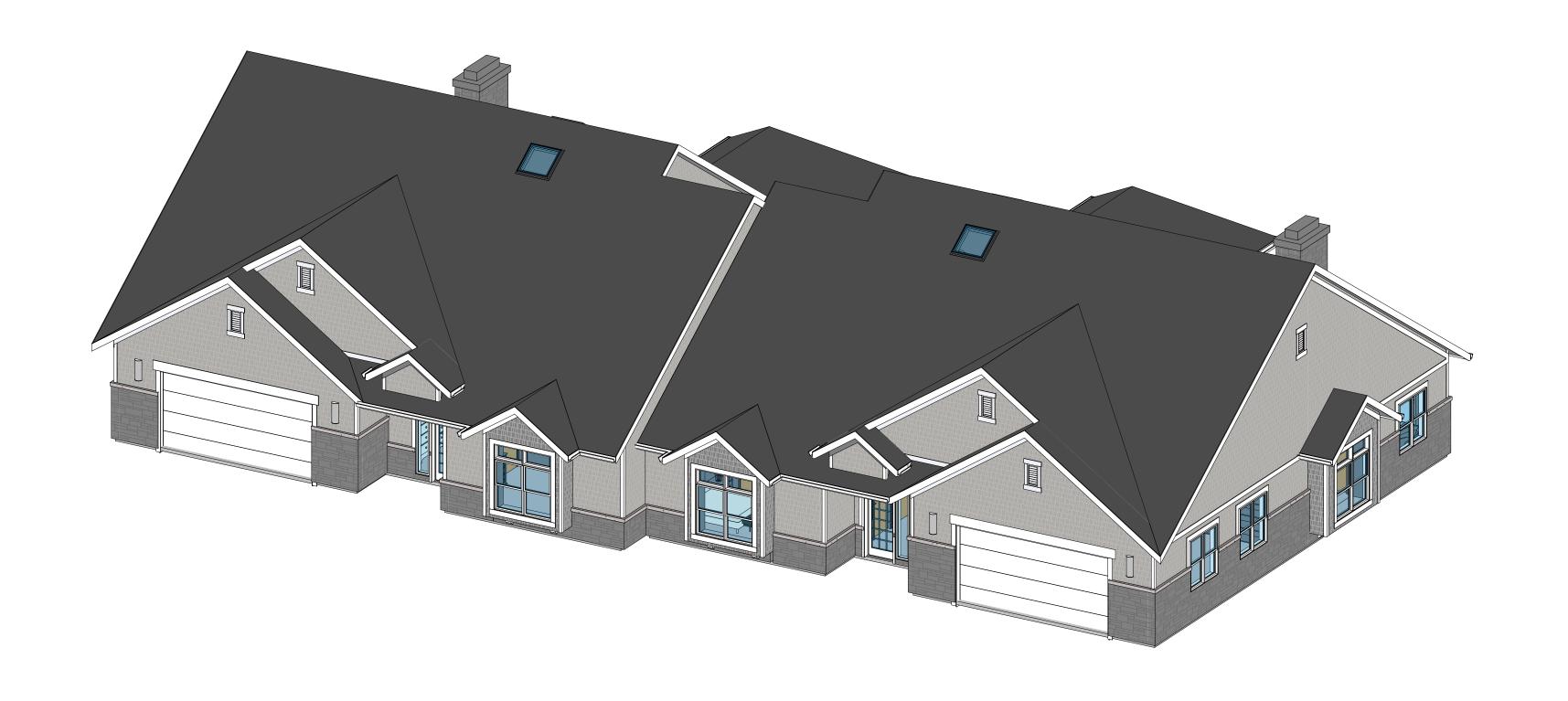


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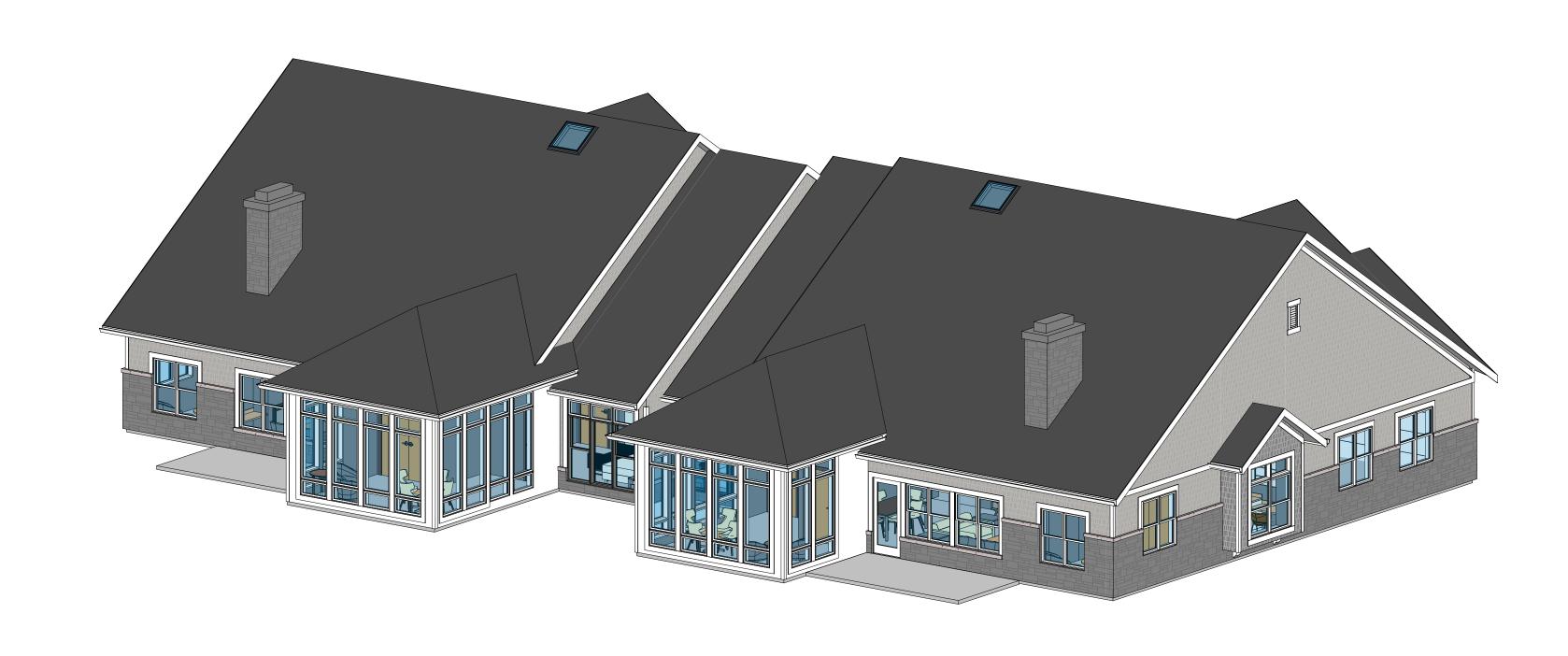






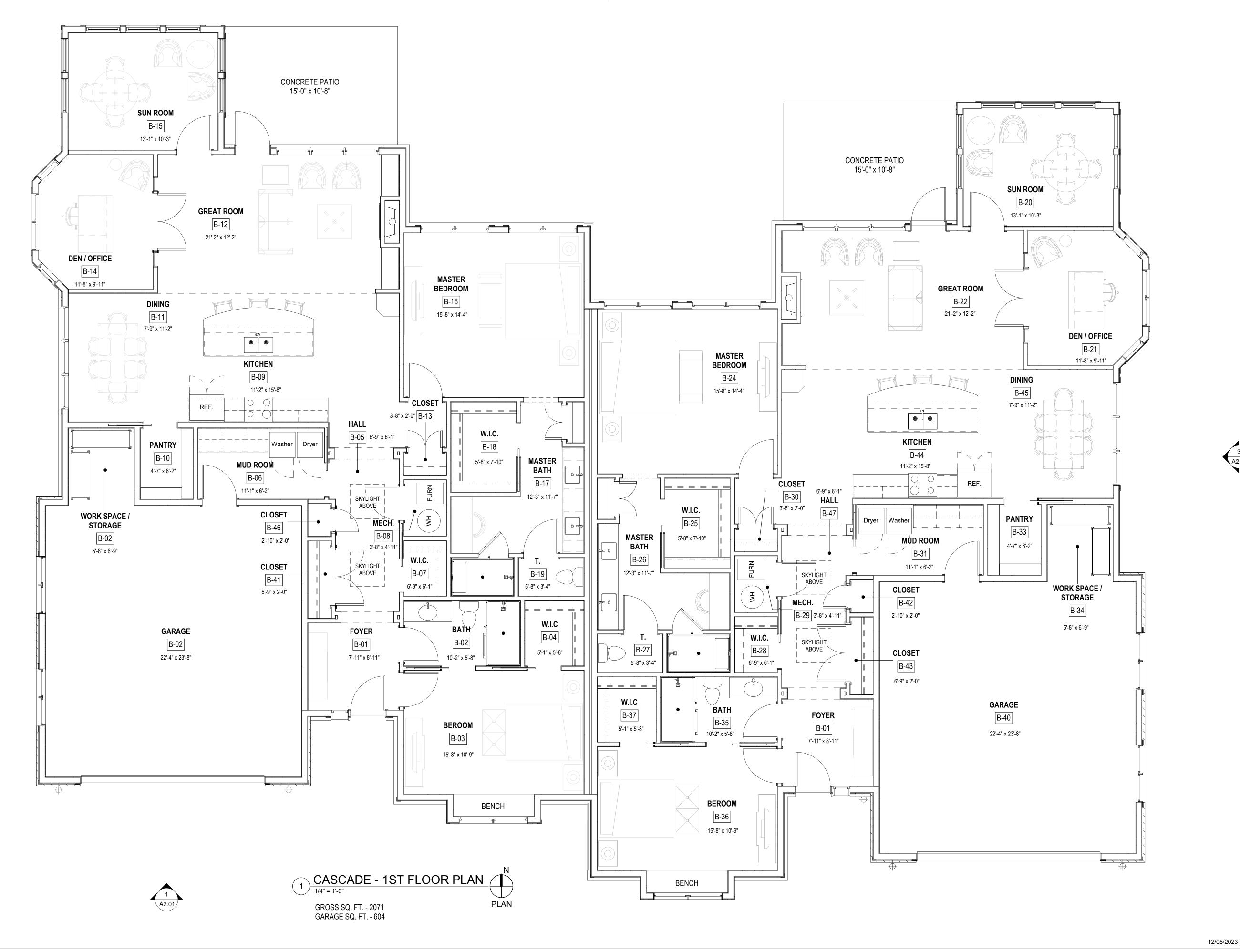


3D SKETCH VIEW - FRONT



2 3D SKETCH VIEW - REAR







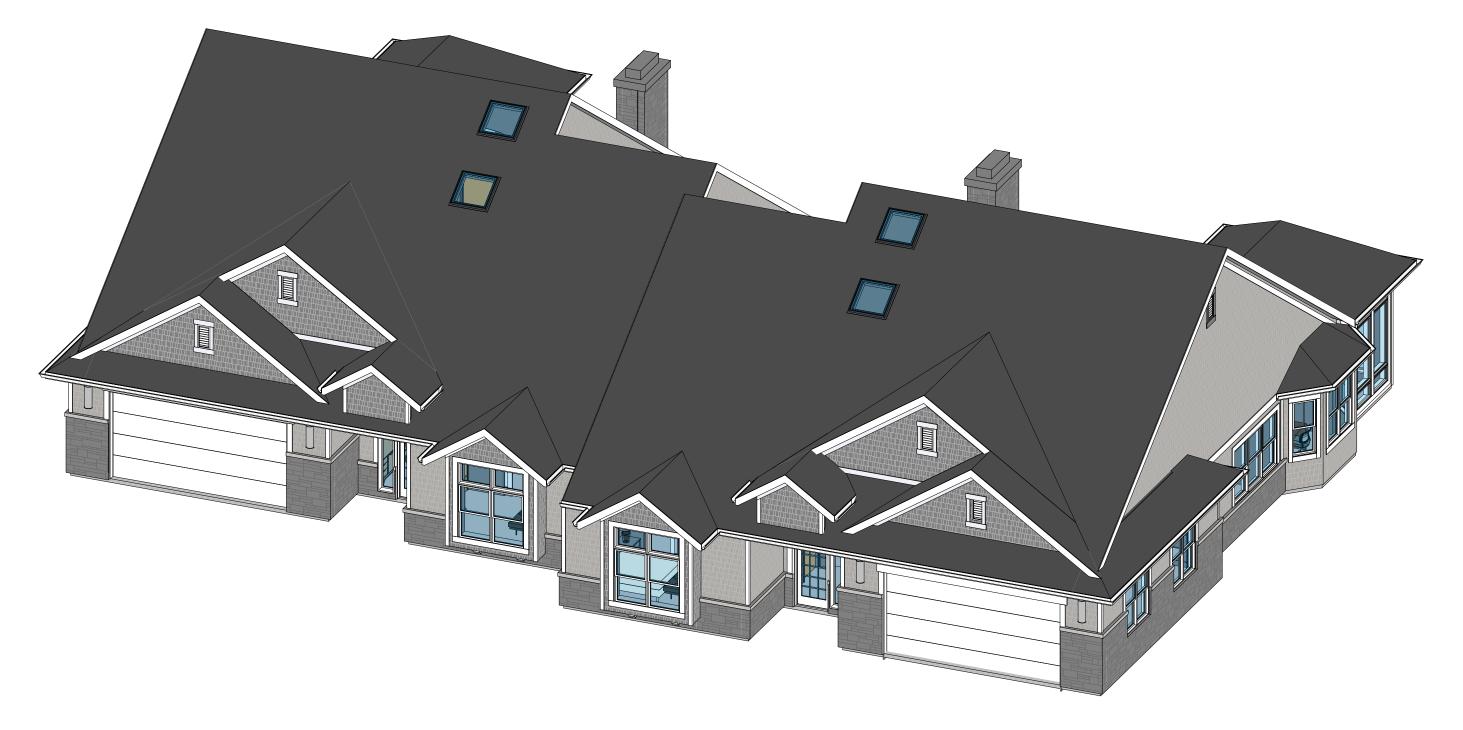


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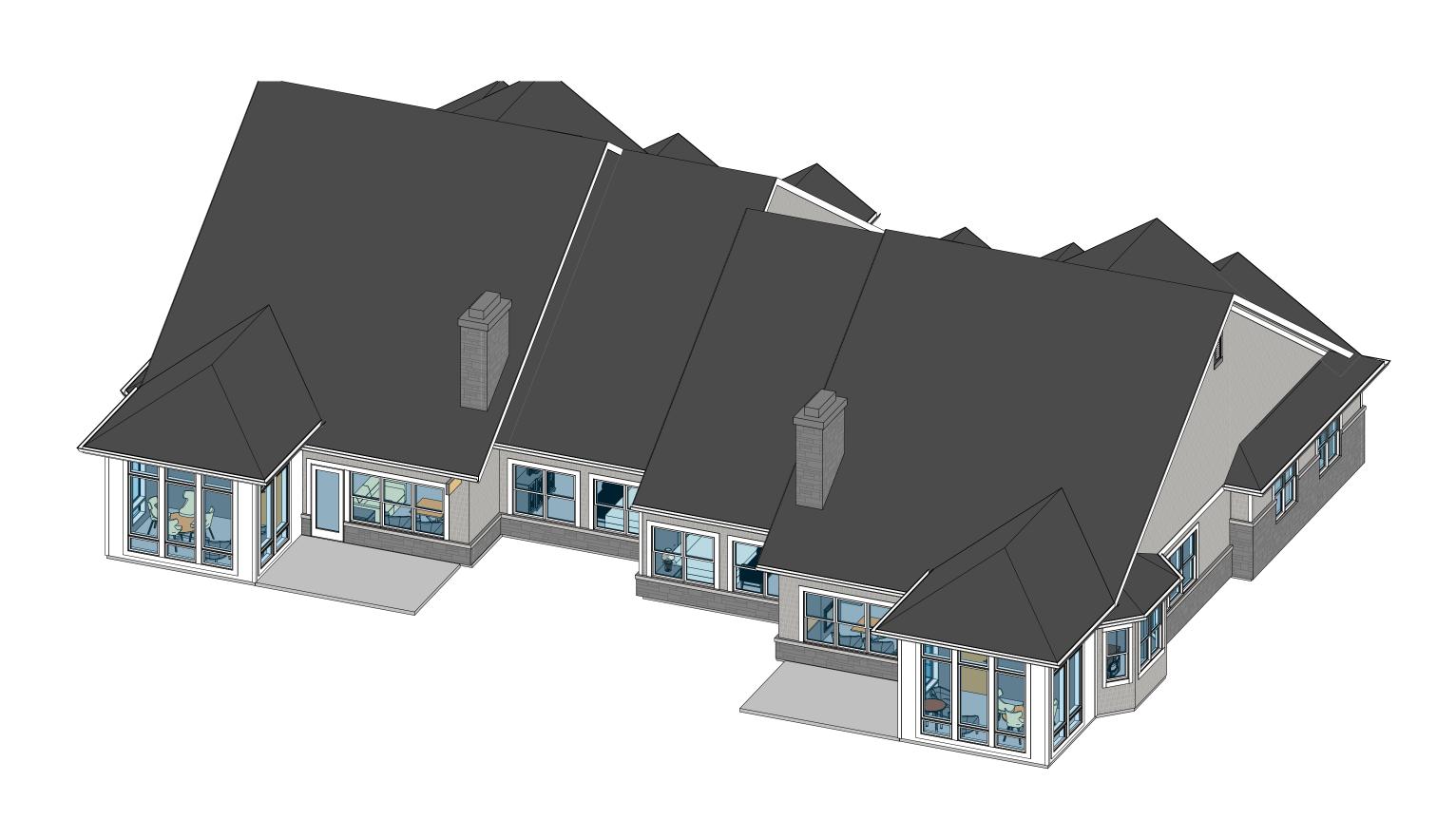


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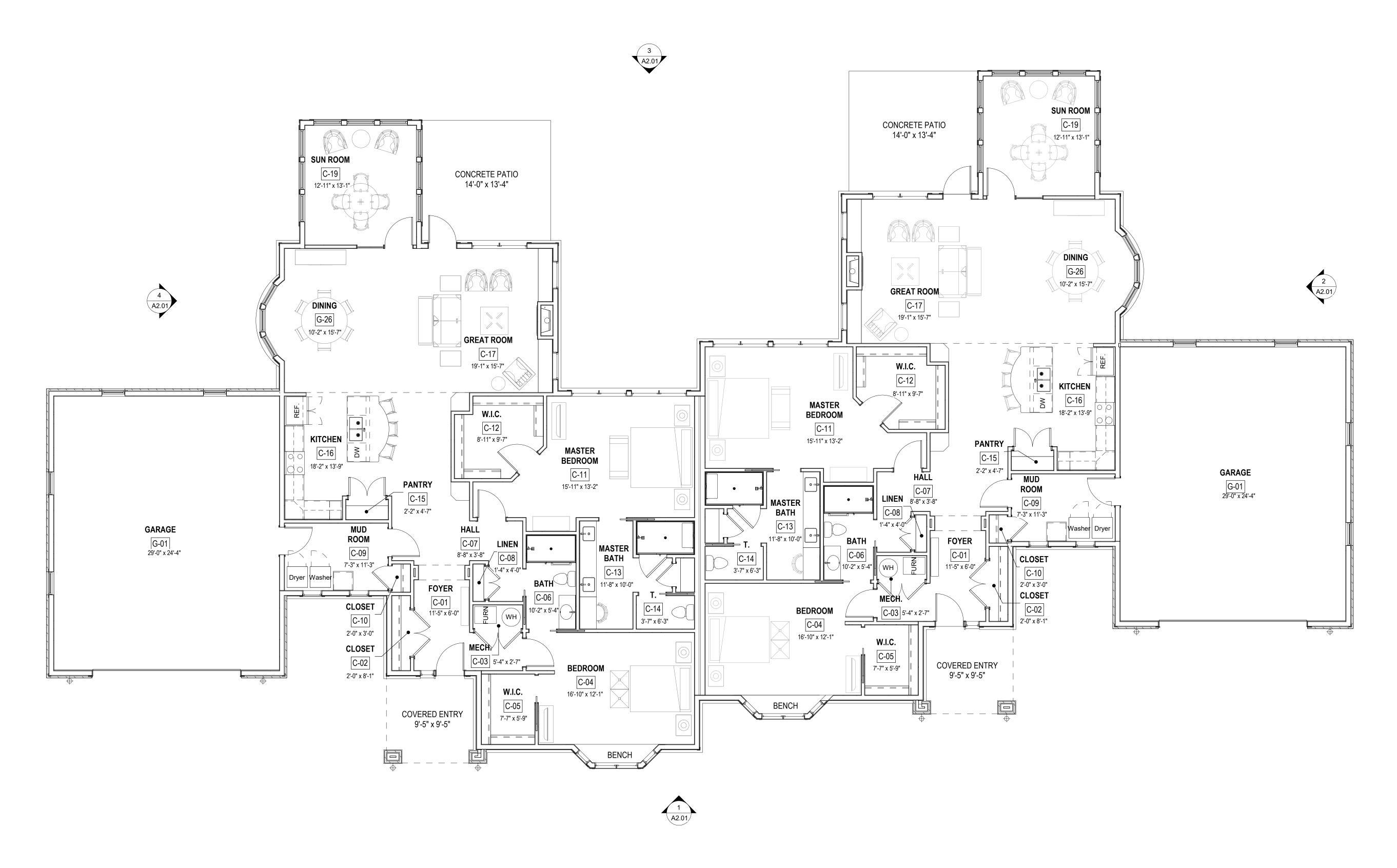
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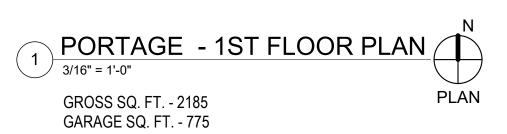


3D SKETCH VIEW - FRONT



3D SKETCH VIEW - REAR









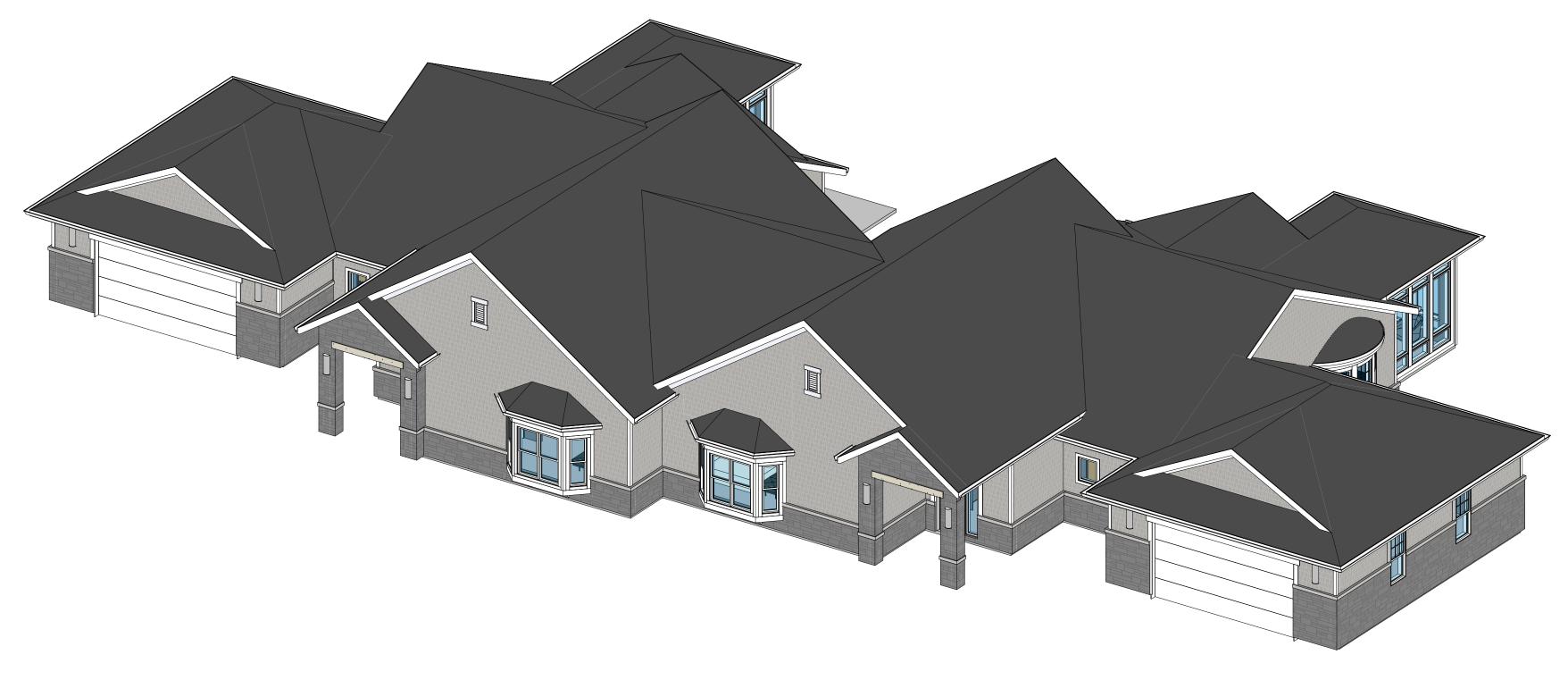


RDL ARCHITECTS

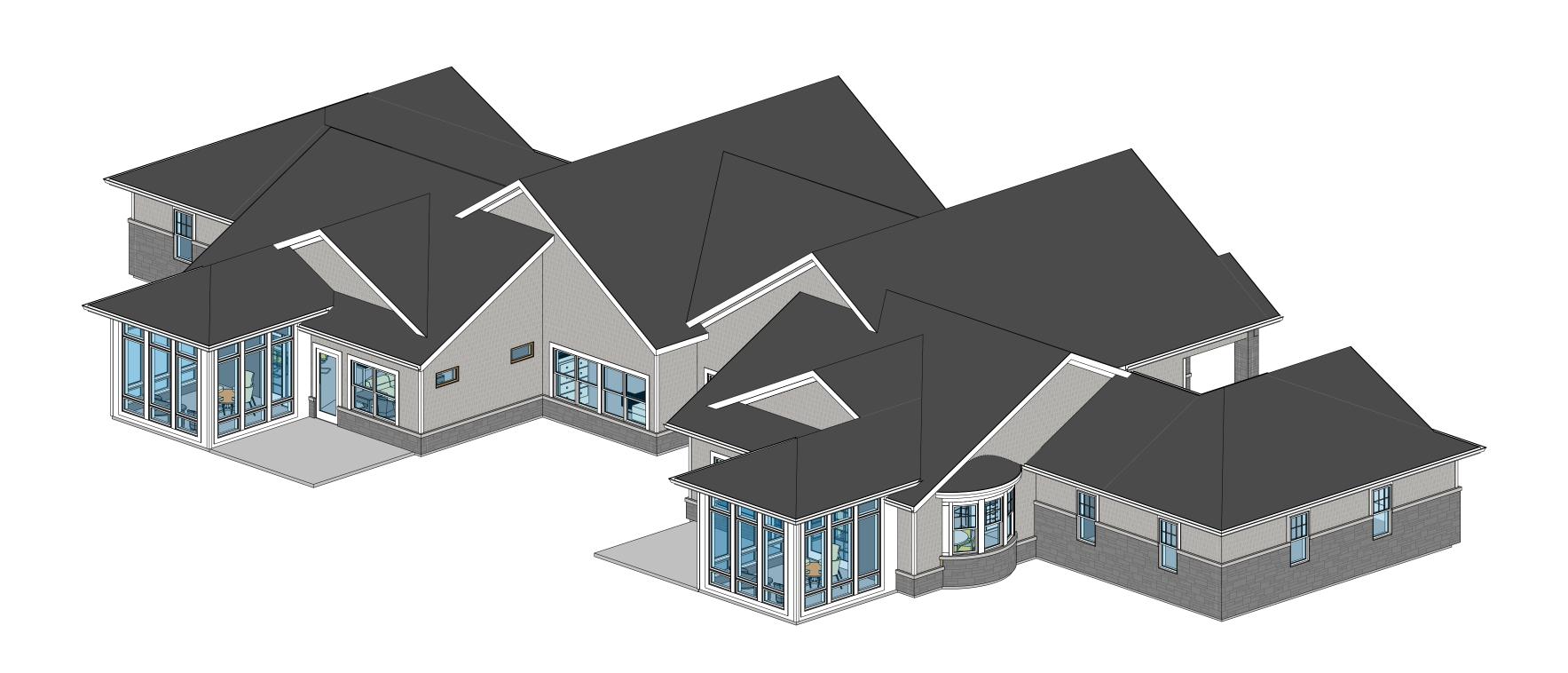
16102 Chagrin Blvd. Suite 200
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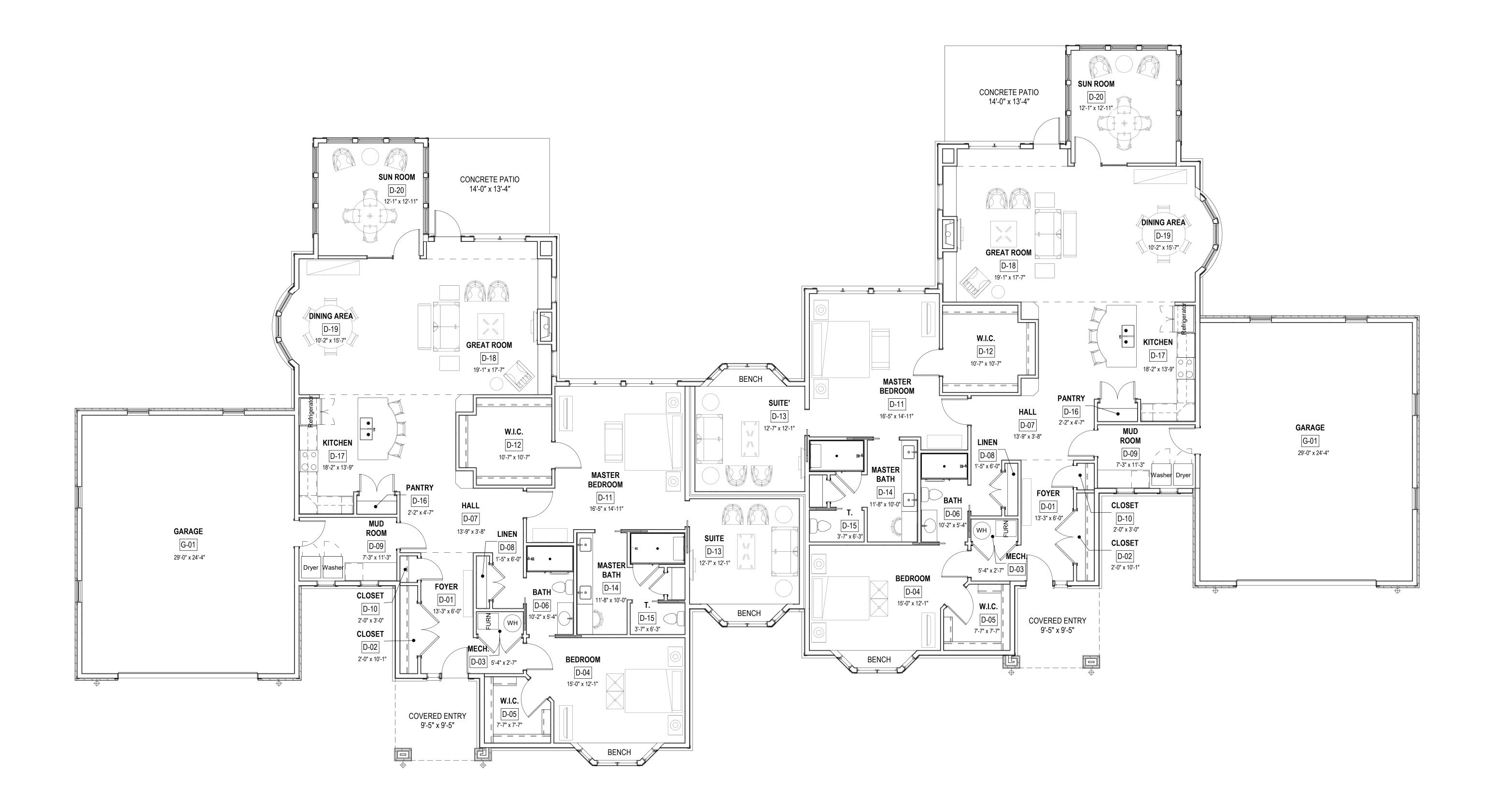
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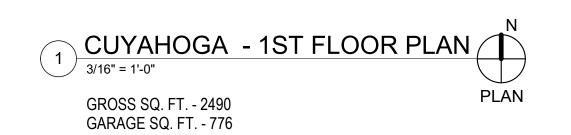


2 3D SKETCH VIEW - FRONT



3D SKETCH VIEW - REAR







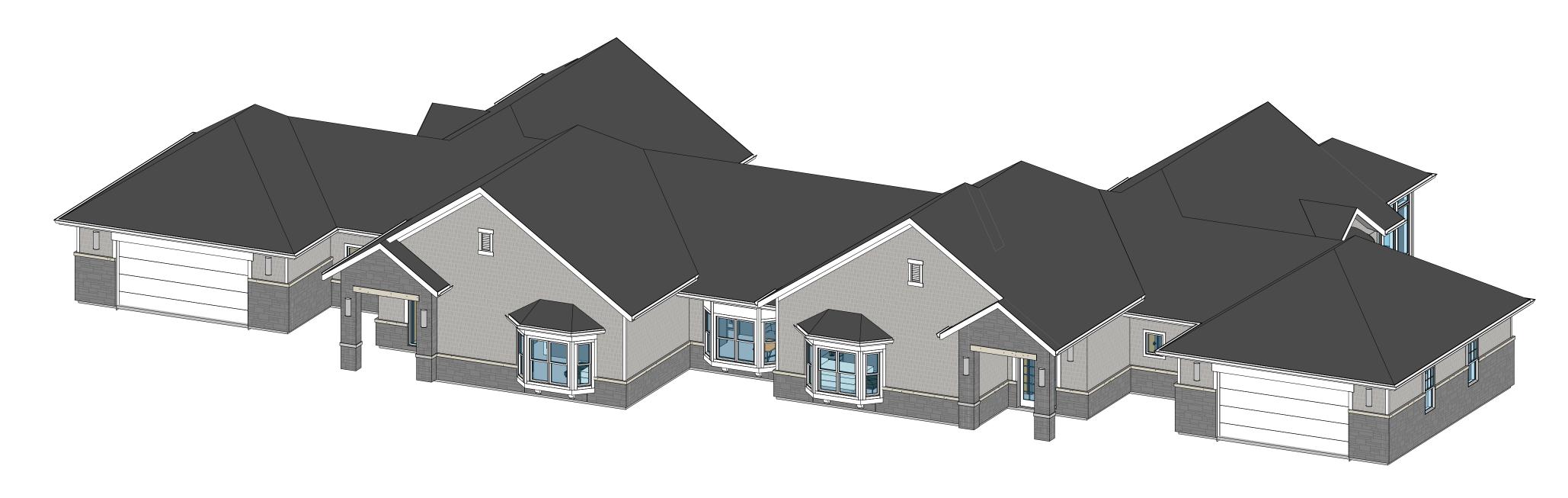


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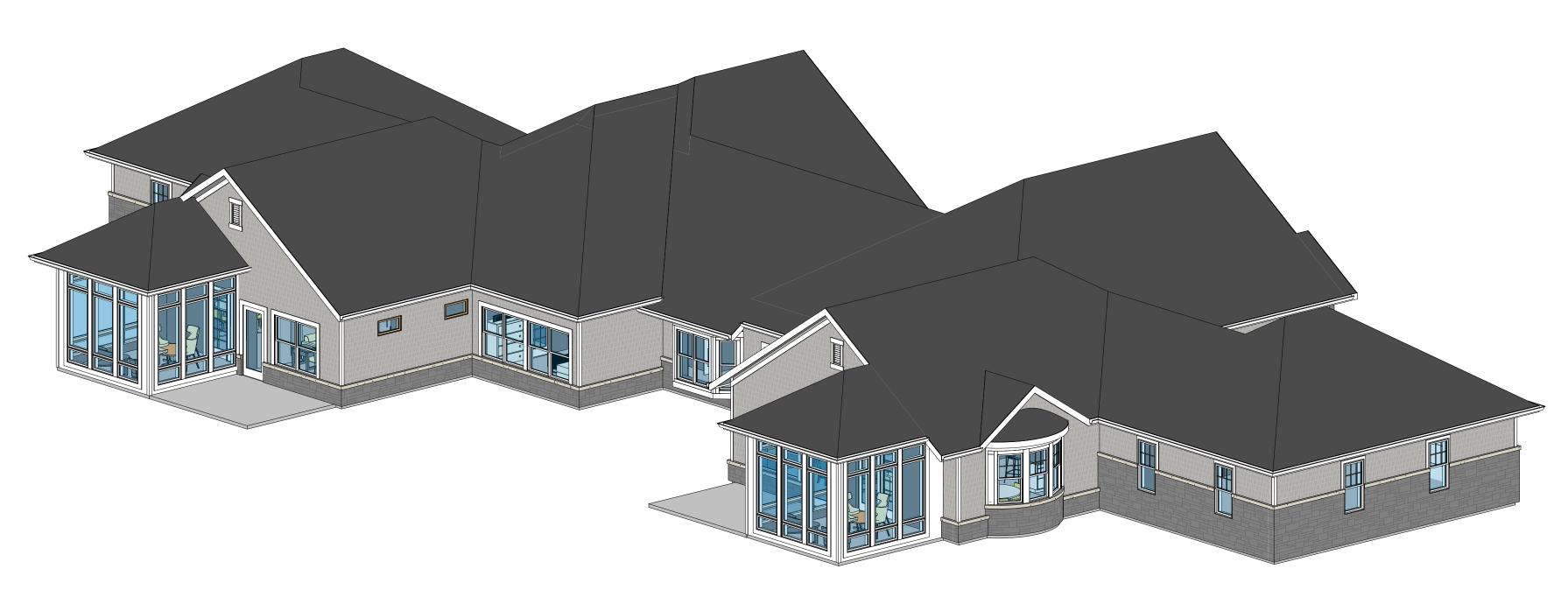
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Laurel Lake Retirement Community





3D SKETCH VIEW - FRONT



3D SKETCH VIEW - REAR