
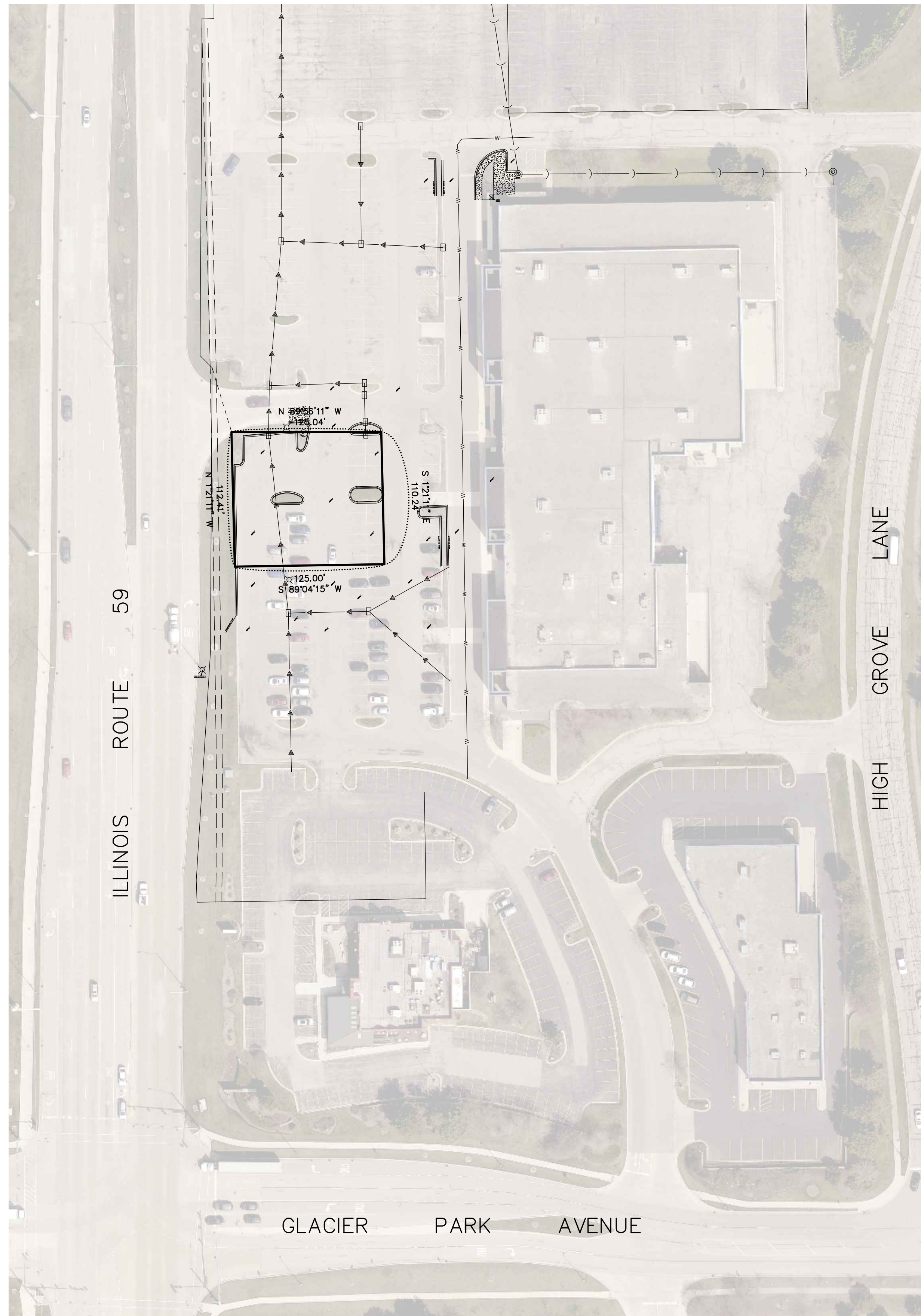
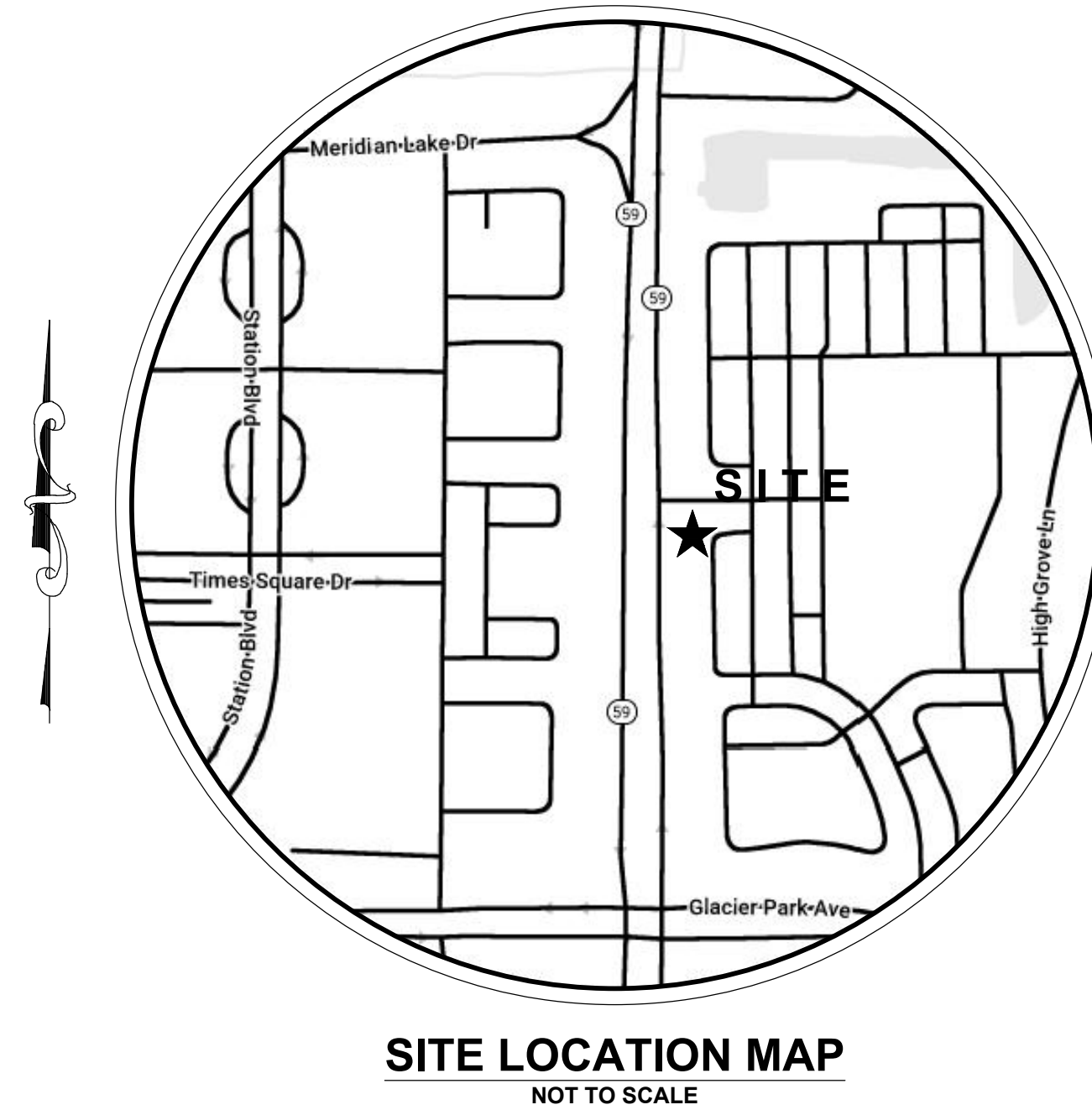
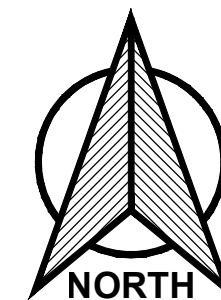


# Final Engineering Plans for **SCOOTER'S COFFEE DRIVE-THRU** City of Naperville DuPage County, Illinois

**APPROVED**  
**CITY OF NAPERVILLE**  
Address: 1931 Glacier Park  
Last Revision Date: 9/11/2023  
Approval Date: 10/4/23



**OVERALL SITE MAP**  
SCALE: 1" = 60'



**SITE LOCATION MAP**  
NOT TO SCALE

**INDEX OF ENGINEERING SHEETS**

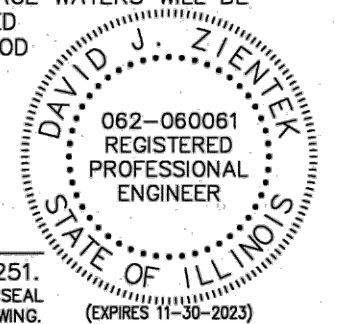
SHEET No.	DESCRIPTION
C0.00	COVER SHEET
C1.00	EXISTING TOPOGRAPHY
C2.00	DEMOLITION PLAN
C3.00	SITE PLAN
C4.00	GRADING PLAN
C5.00	UTILITY PLAN
C5.01	UTILITY PLAN SANITARY SEWER FORCE MAIN
C6.00	GENERAL NOTES AND DETAILS
C7.00	GENERAL NOTES AND DETAILS
C8.00	GENERAL NOTES AND DETAILS
C9.00	GENERAL NOTES AND DETAILS
C10.00	GENERAL NOTES AND DETAILS

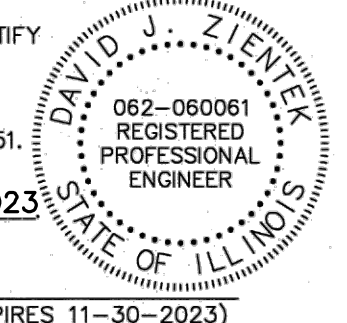
**BENCHMARKS:**  
CITY BENCHMARKS:  
CITY OF NAPERVILLE SURVEY MONUMENT  
STATION 216  
ELEVATION: 708.96 (NAVD88)  
CITY OF NAPERVILLE SURVEY MONUMENT  
STATION 16  
ELEVATION: 702.56 (NAVD88)  
SITE BENCHMARK 1: (TO BE REMOVED)  
CUT CROSS IN TOP OF CURB ON SOUTH SIDE OF ISLAND  
IN CENTER OF PARKING LOT. (AS SHOWN)  
ELEVATION: 703.55 (NAVD88)  
SITE BENCHMARK 2:  
CUT CROSS ON EAST SIDE OF LIGHT POLE BASE, ±5'  
EAST OF EDGE OF PAVEMENT OF ROUTE 59. (NOT SHOWN)  
ELEVATION: 706.76 (NAVD88)

**OWNER / DEVELOPER:**  
SCORILO, LLC.  
3720 BIRCH LANE  
NAPERVILLE, ILLINOIS 60564

**LAND SURVEYOR / ENGINEER:**  
RUETTIGER, TONELLI & ASSOCIATES, INC.  
129 CAPISTA DRIVE  
SHOREWOOD, ILLINOIS 60404  
Ph. (815) 744-6600

**NOTES:**  
1.) PROPERTY LINE GEOMETRY AND EASEMENTS DEPICTED ON THE IMPROVEMENT PLANS DO NOT NECESSARILY REPRESENT THE FINAL GEOMETRY AND EASEMENTS SHOWN ON THE MOST RECENT PLAT OF SUBDIVISION. REFER TO THE PLAT OF SUBDIVISION FOR THIS INFORMATION.  
2.) DUE TO THE UNCERTAINTY OF SEASONAL GROUND WATER TABLES AND THE GEOPHYSICAL CONDITIONS AFFECTING GROUND WATER MOVEMENT, RUETTIGER, TONELLI & ASSOCIATES TAKES NO RESPONSIBILITY FOR THE MANAGEMENT OF GROUND WATER ASSOCIATED WITH SUB-GRADE CONSTRUCTION, BASEMENTS OR OTHER LIKE FACILITIES CONSTRUCTED BELOW THE FINISHED SURFACE GRADE OF THE PROPERTY ARE AT THE RISK OF THE BUILDER/OWNER.

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DISCHARGE OF SURFACE WATERS INTO PUBLIC OR PRIVATE AREAS AND/OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE AND THAT SUCH SURFACE WATERS WILL BE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF SUBSTANTIVE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.  
DATED THIS 11th DAY OF SEPTEMBER A.D. 2023  
  
ENGINEER - IL PROFESSIONAL DESIGN FIRM No. 184-001251.  
TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE EMBOSSED SEAL OF THE DESIGN FIRM OR PROFESSIONAL LICENSEE WHO PREPARED THIS DRAWING. (EPRES 11-26-2023)

I, DAVID J. ZIENTEK, A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS, HEREBY CERTIFY THAT THESE IMPROVEMENT PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION BY RUETTIGER, TONELLI & ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM No. 184-001251.  
DATED THIS 11th DAY OF SEPTEMBER, 2023  
  
DAVID J. ZIENTEK P.E. (No. 062-060061 (EXPIRES 11-30-2023))  
TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE EMBOSSED SEAL OF THE DESIGN FIRM OR PROFESSIONAL LICENSEE WHO PREPARED THIS DRAWING.

  
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CONTACT J.U.L.I.E. at 811 or 800-892-0123  
48 Hours (2 Working Days) BEFORE YOU DIG.  
Include the following:  
County, City/Township, Section & 1/4 Section No.

**Ruettiger, Tonelli & Associates, Inc.**  
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
PH. (815) 744-6600 FAX (815) 744-0101  
website: www.ruettigertonelli.com

PROJECT TITLE:  
**SCOOTER'S COFFEE DRIVE-THRU**  
1931 GLAICER PARK  
NAPERVILLE, ILLINOIS

DRAWING TITLE:  
**COVER SHEET**  
DRAWING No.  
323-0186-C1  
SCALE:  
AS NOTED  
SHEET C0.00

**REVISIONS**

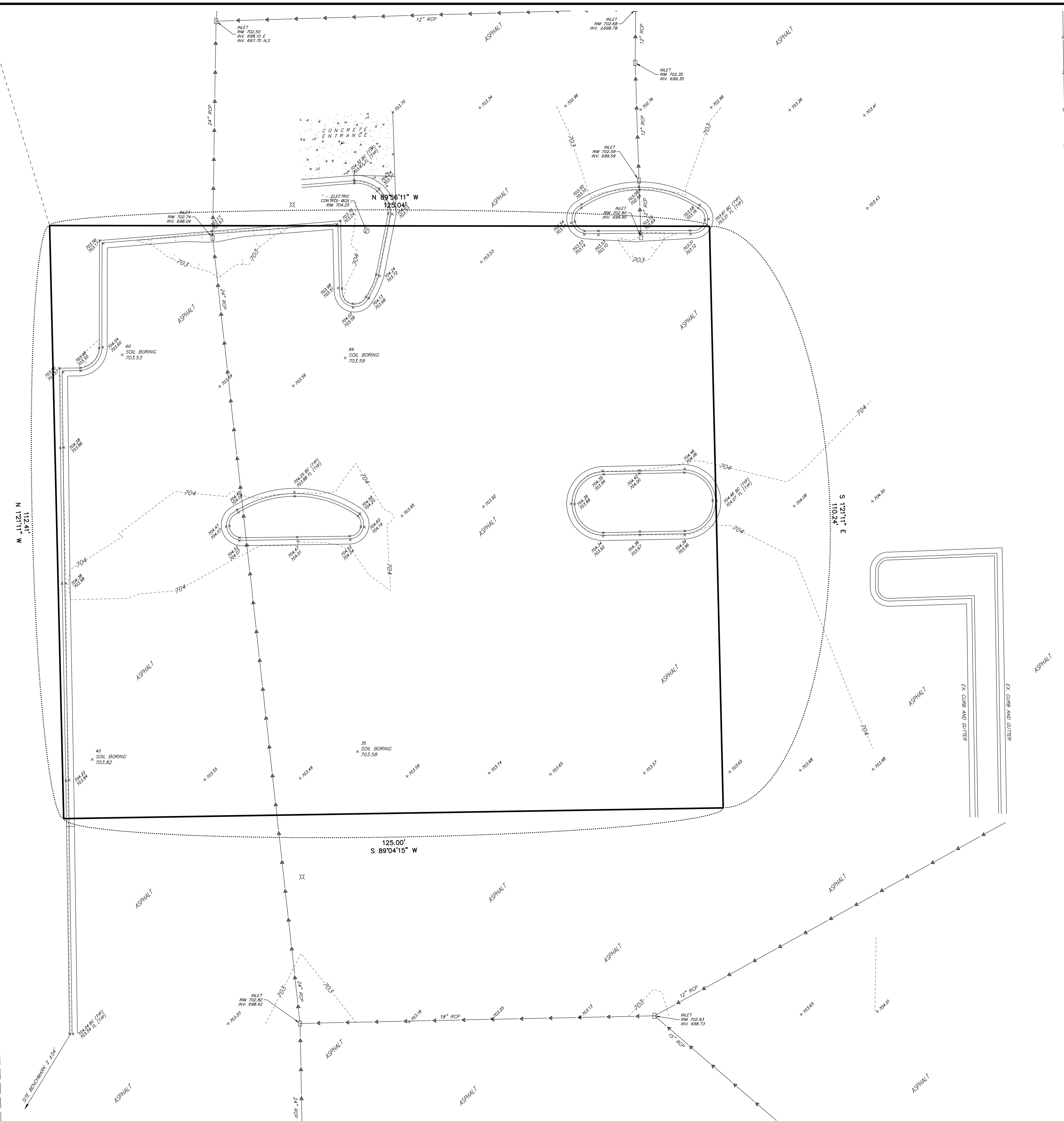
No.	DATE	DESCRIPTION	BY
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1	8-11-2023	REVISED PER CITY OF NAPERVILLE REVIEW	ECH
2	9-11-2023	REVISED TRANSFORMER LOCATION	DJZ

**DOCUMENTATION:**  
PROJECT No.: 20230186  
DATE: 3-11-2023  
FIELD BOOK: b:28-43 p:45-46  
DRAWN BY: ech  
CHECKED BY: DJZ



N:\2023\20230186\Engineering\Plan\_Sheet\_C1 - Scooter's Coffee Big Plans\2023\0000\Cover\_Sheet.dwg, Layout: 1, 9/11/2023, 2:21:00 PM, A:\awhite

LEGEND	
mea.	MEASURED
rec.	RECORDED
calc.	CALCULATED
●	FOUND SURVEY MONUMENT
■	SET 5/8" REBAR UNLESS OTHERWISE NOTED
---	SUBJECT BOUNDARY
---	ADJACENT BOUNDARY
---	EASEMENT LINE
---	BUILDING SETBACK LINE
----	ELEVATION
XXXXX	CONTOUR
----	CONCRETE CURB AND GUTTER
BC	BACK OF CURB
FL	FLOWLINE
X	LIGHT POLE
— —	SANITARY SEWER
⊙	SANITARY SEWER MANHOLE
— —	WATER MAIN
— —	STORM SEWER
□	STORM SEWER STRUCTURE
RCP	REINFORCED CONCRETE PIPE
▭	CONCRETE AREA



BENCHMARKS:	
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DRAWN BY: ech

CHECKED BY: DJZ



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**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

DRAWING TITLE:

**EXISTING TOPOGRAPHY**

DRAWING No.  
**323-0186-C1**

SCALE:  
**AS NOTED**

**SHEET C1.00**

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**LEGEND**

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- rec. RECORDED
- calc. CALCULATED
- FOUND SURVEY MONUMENT
- SET 5/8" REBAR UNLESS OTHERWISE NOTED
- SUBJECT BOUNDARY
- ADJACENT BOUNDARY
- EASEMENT LINE
- BUILDING SETBACK LINE
- CONCRETE CURB AND GUTTER
- ⊕ LIGHT POLE
- ⊕ SANITARY SEWER
- ⊕ SANITARY SEWER MANHOLE
- ⊕ WATER MAIN
- ⊕ STORM SEWER
- ⊕ STORM SEWER STRUCTURE
- ⊕ RCP REINFORCED CONCRETE PIPE
- ▭ CONCRETE AREA
- ▨ AREA TO BE REMOVED
- XXXXXX ITEM TO BE REMOVED
- PROPOSED CONSTRUCTION/SILT FENCE
- ⊕ PROPOSED EROSION CONTROL INLET FILTER BASKET

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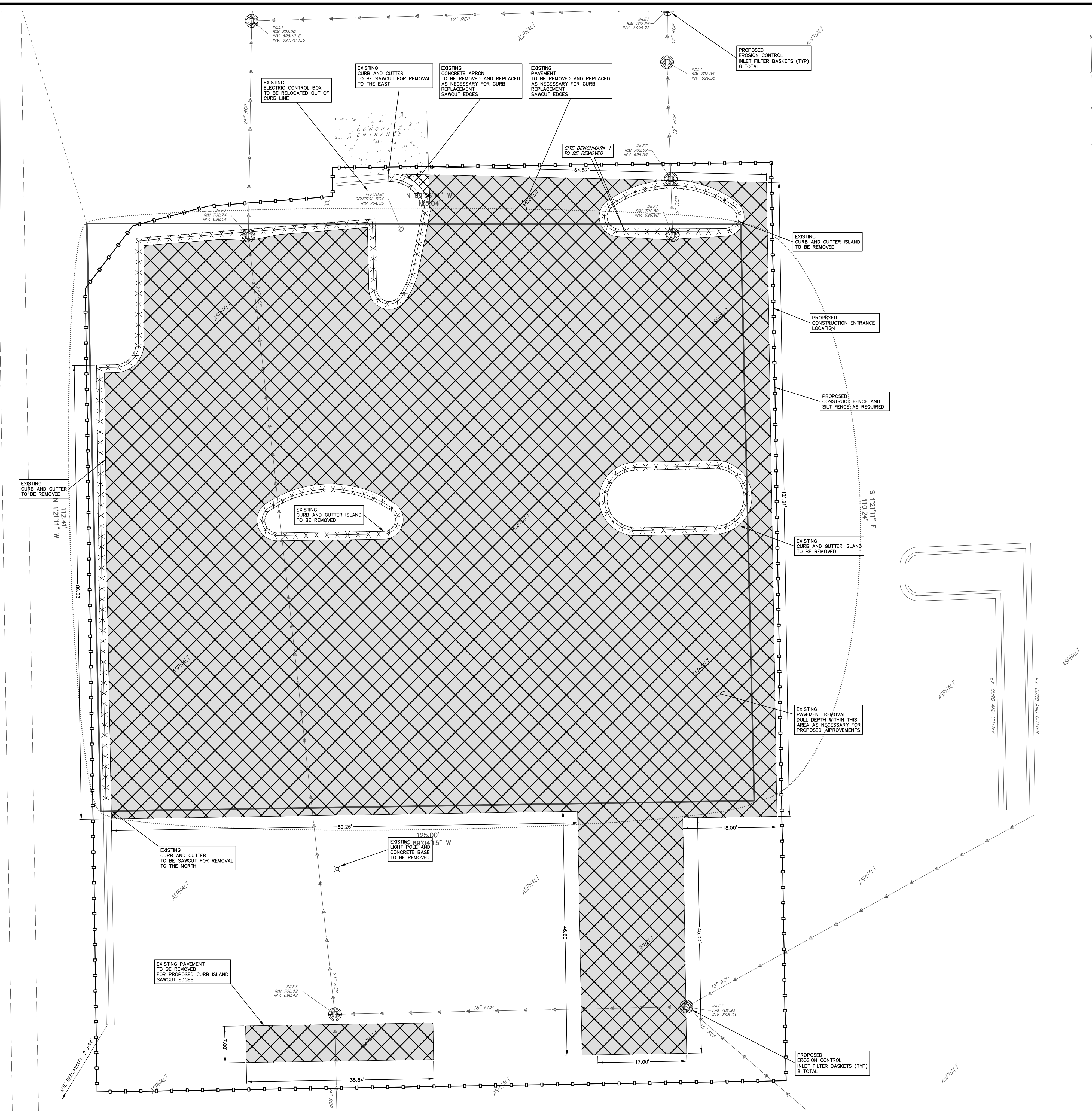
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**DOCUMENTATION:**

No.	DATE	DESCRIPTION	BY

**RT & A**  
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 Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettigertonelli.com

**PROJECT TITLE:**  
**SCOOTER'S COFFEE DRIVE-THRU**  
**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

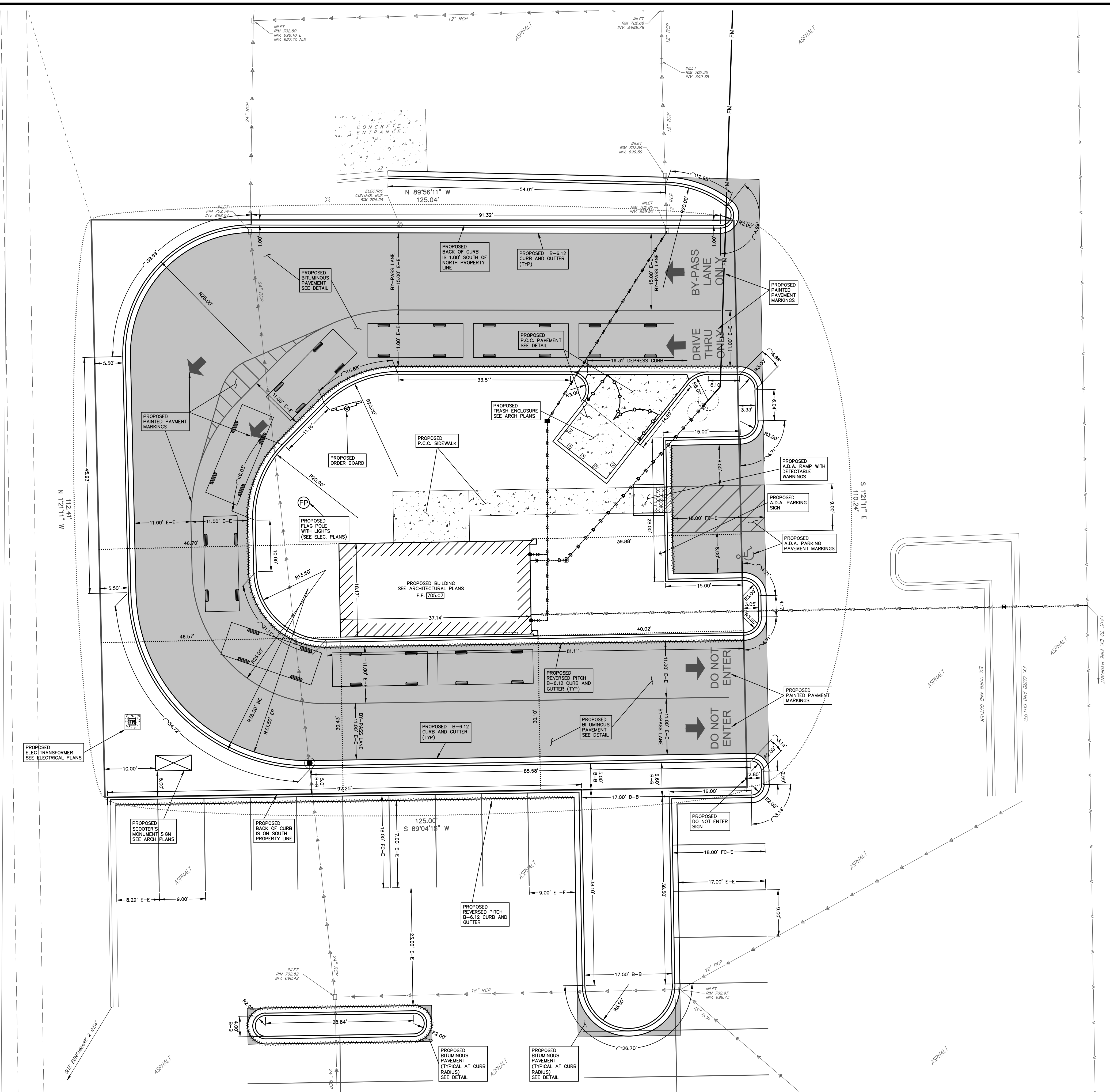
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**DEMOLITION PLAN**

**DRAWING No.**  
 323-0186-C1

**SCALE:**  
 AS NOTED

**SHEET** C2.00

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**VEHICLE SHOWN FOR STACKING:**

Chevrolet Suburban 3/4 Ton LS  
 Overall Length 18.533ft  
 Overall Width 6.592ft

**LOT INFORMATION:**

LOT AREA ..... 13,915.96 S.F.  
 BUILDING AREA ..... 677.13 S.F.  
 PROPOSED F.A.R. .... 0.048  
 ZONING ..... B-2  
 SETBACKS .....  
 FRONT / WEST ..... 46.57'  
 REAR / EAST ..... 39.88'  
 SIDE / NORTH ..... 61.99'  
 SIDE / SOUTH ..... 30.10'

**CITY OF NAPERVILLE**  
 Address: 1931 Glacier Park  
 Last Revision Date: 9/11/2023  
 Approval Date: 10/4/23

**LEGEND**

meo.	MEASURED
rec.	RECORDED
calc.	CALCULATED
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---	SUBJECT BOUNDARY
---	ADJACENT BOUNDARY
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	CONCRETE CURB AND GUTTER
---	CONCRETE AREA
---	EDGE OF PAVEMENT TO EDGE OF PAVEMENT DIMENSION
---	FACE OF CURB TO EDGE OF PAVEMENT DIMENSION
---	ARC LENGTH DIMENSION
---	PROPOSED SIGN
---	PROPOSED REVERSED PITCH CURB AND GUTTER
---	PROPOSED CONCRETE AREA
---	PROPOSED ASPHALT AREA
---	PROPOSED FLAG POLE LOCATION

- PROPOSED SITE GEOMETRY NOTES:**
- 1.) ALL PARKING STALL, SAFETY ISLAND, NO PARKING AREAS AND CROSSWALK STRIPING SHALL BE 4 INCH WIDE STANDARD 1D.O.T. YELLOW. DIAGONAL STRIPING SHALL BE 2 FT. ON CENTER.
  - 2.) ALL SIGNS SHALL MEET THE REQUIREMENTS AND STANDARDS OF THE U.S. DEPT. OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION; THE ILLINOIS ADMINISTRATIVE CODE, LATEST ADDITION; AND ALL LOCAL ORDINANCES.
  - 3.) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE SHOWN TO THE BACK OF THE CURBLINE WHERE APPLICABLE.
  - 4.) UNLESS OTHERWISE SPECIFIED, ALL ON-SITE CURB IS B-6.12.
  - 5.) REFER TO PROPOSED SITE PHOTOMETRIC PLANS BY ELECTRICAL CONTRACTOR FOR SPECIFIC ON-SITE ILLUMINATION INCLUDING WALL MOUNTED LIGHTING AND COVERED PATIO/PARKING LIGHTING.

Call Before You Dig  
**JULIE**  
 ILLINOIS  
 (DRILL-CALL SYSTEM)  
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**DOCUMENTATION:**

PROJECT No.: 20230186  
 DATE: 3-11-2023  
 FIELD BOOK: b-28-43 p.45-46  
 DRAWN BY: ech  
 CHECKED BY: DJZ

**RT & A**  
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**SCOOTER'S COFFEE DRIVE-THRU**  
**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

DRAWING TITLE:  
**SITE PLAN**

DRAWING No.  
**323-0186-C1**

SCALE:  
**AS NOTED**

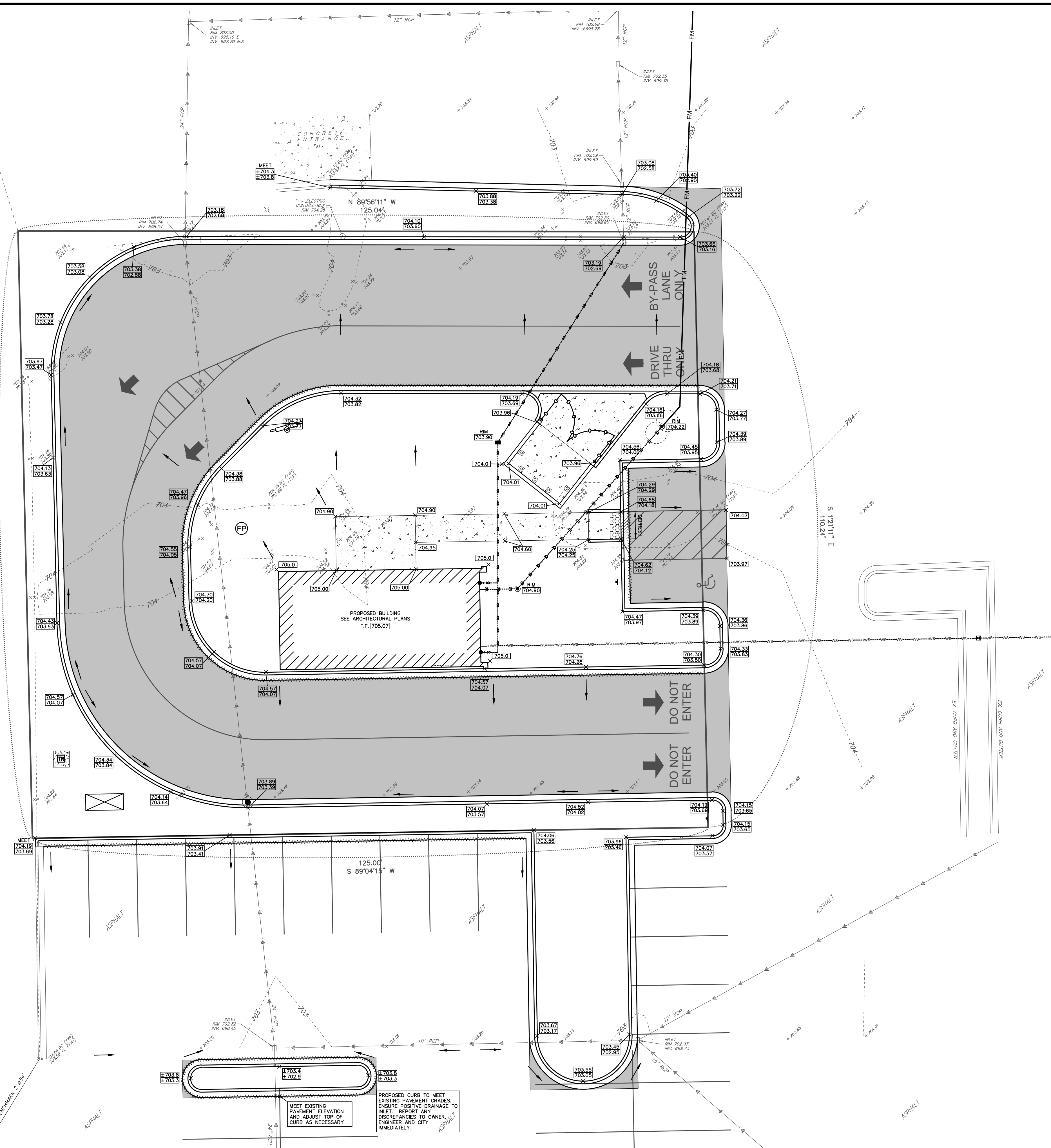
**SHEET C3.00**

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LEGEND	
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calc.	CALCULATED
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W	WATER MAIN
W	STORM SEWER
⊕	STORM SEWER STRUCTURE
⊕	REINFORCED CONCRETE PIPE
⊕	CONCRETE AREA
XXXXXX	PROPOSED GRADE
XXXXXX	PROPOSED OVERLAND FLOW DIRECTION
XXXXXX	PROPOSED TOP OF CURB
XXXXXX	PROPOSED PAVEMENT
⊕	PROPOSED FLAG POLE LOCATION



BENCHMARKS:	
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CHECKED BY:	DJZ			

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**NAPERVILLE, ILLINOIS**

DRAWING TITLE:  
**GRADING PLAN**

DRAWING No.  
**323-0186-C1**  
 SCALE:  
**AS NOTED**  
**SHEET C4.00**

N:\2023\20230186\Engineering\Plan\_Sets\C1 - Scouter's Coffee Bldg\_PlanSet\CAD\Grading.dwg, Layer: C1, 9/11/2023 2:01:38 PM, echanan

**LEGEND**

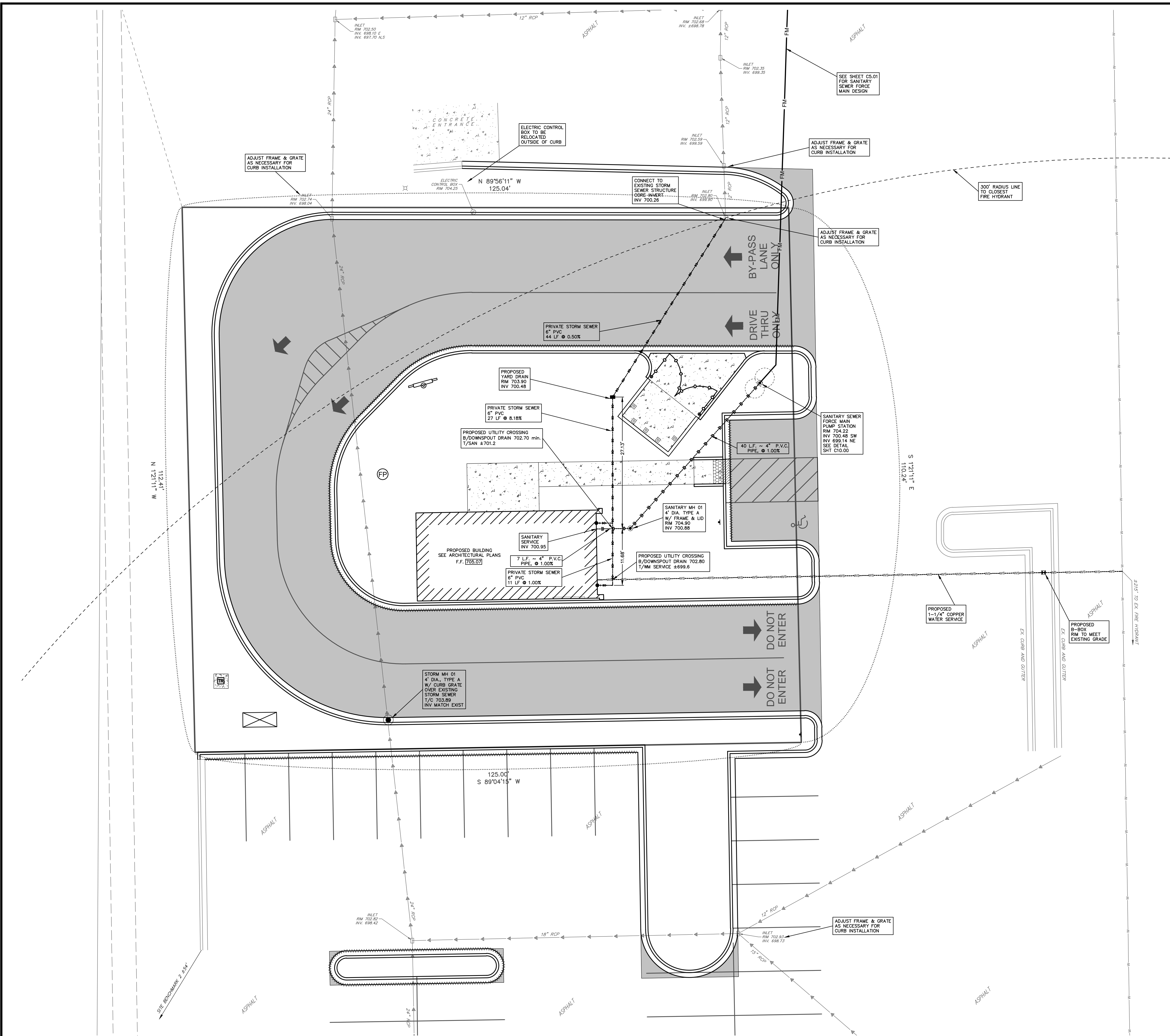
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—	WATER MAIN
—	STORM SEWER
□	STORM SEWER STRUCTURE
▨	CONCRETE AREA
---	PROPOSED STORM SEWER SUMP LINE
■	PROPOSED YARD DRAIN
●	PROPOSED DOWNSPOUT
---	PROPOSED SANITARY SEWER SERVICE
FM	PROPOSED FORCE MAIN
⊙	PROPOSED SANITARY SEWER MANHOLE
---	PROPOSED WATER SERVICE
⊕	PROPOSED B-BOX
⊕	PROPOSED FLAG POLE LOCATION

**PROPOSED UTILITY NOTES:**

- 1.) ROOF DOWNSPOUTS TO BE PIPED TO YARD DRAIN.
- 2.) THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING NEW HOT TAPS FOR THE WATER SERVICE AND THE SANITARY SEWER TAP.



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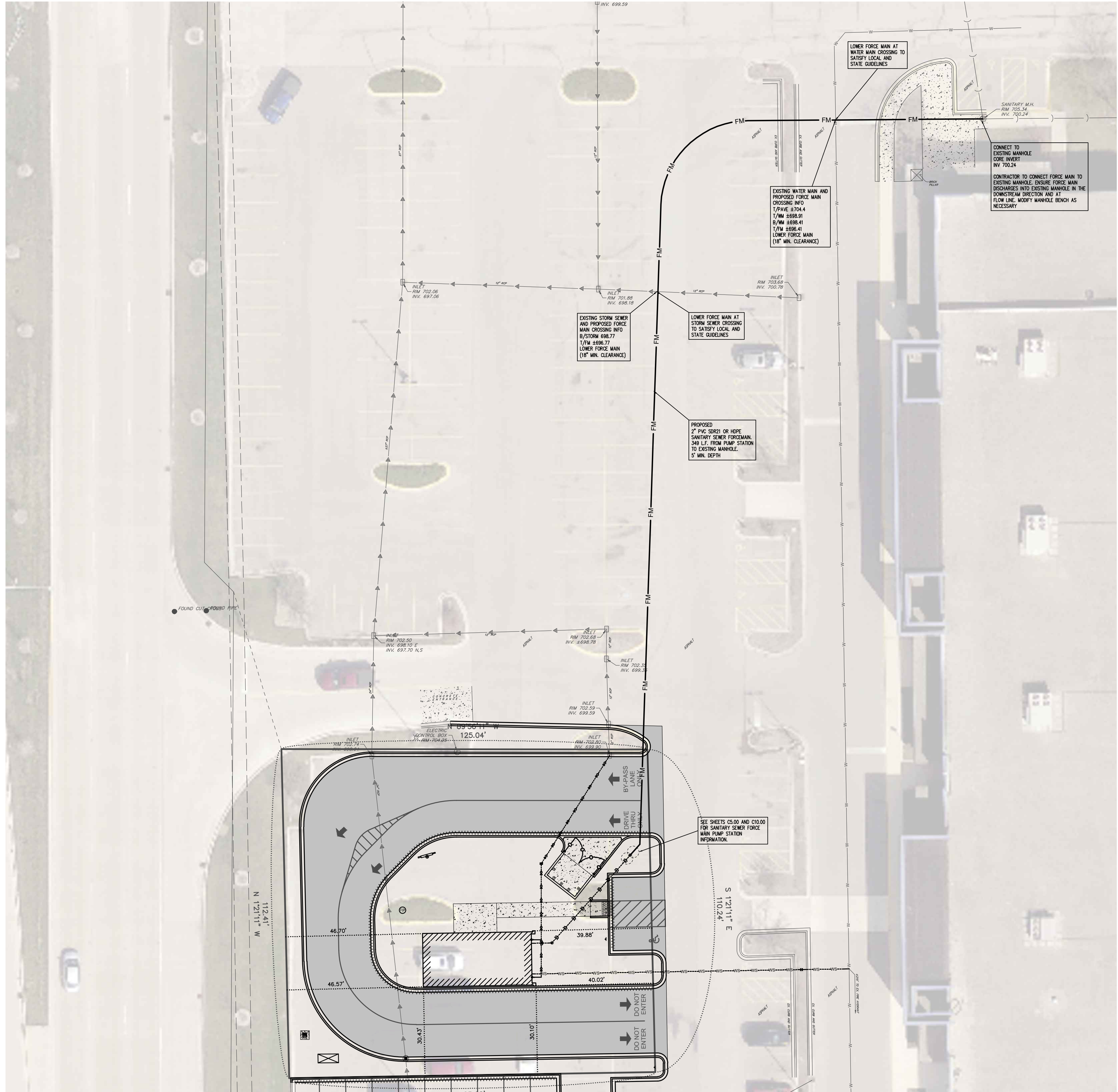
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**DRAWING TITLE:**  
**UTILITY PLAN**  
**( 1 of 2 )**

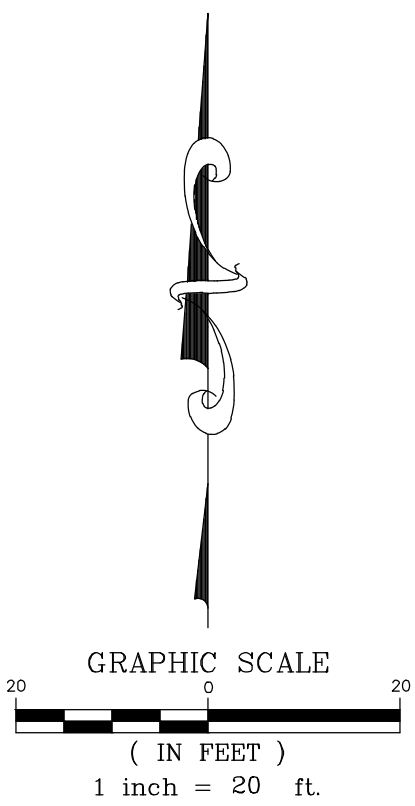
**DRAWING No.:**  
 323-0186-C1

**SCALE:**  
 AS NOTED

**SHEET C5.00**



**APPROVED**  
**CITY OF NAPERVILLE**  
 Address: 1931 Glacier Park  
 Last Revision Date: 9/11/2023  
 Approval Date: 10/4/23



**LEGEND**

mea.	MEASURED
rec.	RECORDED
calc.	CALCULATED
●	FOUND SURVEY MONUMENT
■	SET 5/8" REBAR UNLESS OTHERWISE NOTED
---	SUBJECT BOUNDARY
---	ADJACENT BOUNDARY
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	CONCRETE CURB AND GUTTER
⊗	LIGHT POLE
⊙	SANITARY SEWER MANHOLE
—	WATER MAIN
—	STORM SEWER
□	STORM SEWER STRUCTURE
▭	CONCRETE AREA
---	PROPOSED STORM SEWER SUMP LINE
■	PROPOSED YARD DRAIN
●	PROPOSED DOWNSPOUT
---	PROPOSED SANITARY SEWER SERVICE
FM	PROPOSED FORCE MAIN
⊙	PROPOSED SANITARY SEWER MANHOLE
---	PROPOSED WATER SERVICE
⊕	PROPOSED B-BOX
⊕	PROPOSED FLAG POLE LOCATION

**PROPOSED UTILITY NOTES:**

- 1.) ROOF DOWNSPOUTS TO BE PIPED TO YARD DRAIN.
- 2.) THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING NEW HOT TAPS FOR THE WATER SERVICE AND THE SANITARY SEWER TAP.



**BENCHMARKS:**  
 CITY BENCHMARKS:  
 CITY OF NAPERVILLE SURVEY MONUMENT  
 STATION 216  
 ELEVATION: 708.96 (NAVD88)  
 CITY OF NAPERVILLE SURVEY MONUMENT  
 STATION 16  
 ELEVATION: 702.56 (NAVD88)  
 SITE BENCHMARK 1: (TO BE REMOVED)  
 CUT CROSS IN TOP OF CURB ON SOUTH SIDE OF ISLAND  
 IN CENTER OF PARKING LOT. (AS SHOWN)  
 ELEVATION: 703.55 (NAVD88)  
 SITE BENCHMARK 2:  
 CUT CROSS ON EAST SIDE OF LIGHT POLE BASE. ±5'  
 EAST OF EDGE OF PAVEMENT OF ROUTE 59. (NOT SHOWN)  
 ELEVATION: 706.76 (NAVD88)

**REVISIONS**

No.	DATE	DESCRIPTION	BY
0	6-7-2023	PLAN SET SUBMITTAL	ECH
1	8-11-2023	REVISED PER CITY OF NAPERVILLE REVIEW	ECH
2	9-11-2023	REVISED TRANSFORMER LOCATION	DJZ

**DOCUMENTATION:**

No.	DATE	DESCRIPTION	BY

**RT & A**  
**Ruettiger, Tonelli & Associates, Inc.**  
 Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettigertonelli.com

**PROJECT TITLE:**  
**SCOOTER'S COFFEE DRIVE-THRU**  
**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

**DRAWING TITLE:**  
**UTILITY PLAN**  
**SANITARY SEWER FORCE MAIN**  
**( 2 of 2 )**

**DRAWING No.**  
 323-0186-C1  
**SCALE:**  
 AS NOTED  
**SHEET** C5.01

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**SITE WORK SPECIFICATIONS FOR SCOOTER'S COFFEE NAPERVILLE, ILLINOIS**

**1. SUMMARY**

A. Work includes grading, underground utilities, paving, site restoration, and incidental items as shown and as specified.

B. Construction limits shall be within Owner's property boundaries and construction easements as shown on Drawings.

**2. ABBREVIATIONS**

- AASHTO - American Association of State Highway and Transportation Officials.
- ANSI - American National Standards Institute
- ASTM - American Society for Testing and Materials.
- AWWA - American Water Works Association.
- NFPA - National Fire Protection Association.
- IEPA - Illinois Environmental Protection Agency
- IDOT - Illinois Department of Transportation

**3. DEFINITIONS**

A. References to "IDOT Std. Spec." shall mean Illinois Dept. of Transportation, Standard Specifications for Road and Bridge Construction adopted 1/01/2022 including supplemental specifications adopted 1/01/2023.

B. References to "Owner" shall mean Scooter's Coffee.

C. References to "Engineer" shall mean Owner's designated representative.

**4. PERMITS AND CODES**

A. Contractor shall provide all other necessary licenses and permits and pay all fees, taxes, and royalties, unless otherwise indicated. Comply with local and municipal ordinances and applicable state and national codes.

**5. COORDINATION**

A. All work within public right-of-way shall be coordinated with and is subject to inspection by the City of Naperville. The Owner shall obtain a permit for work on right-of-way. The contractor shall comply with all conditions therein.

**6. SURVEYS**

A. Contractor shall locate and verify baseline reference points and benchmarks as indicated on Drawings. Contractor shall provide all survey staking and layout as required to complete the work.

**7. DESIGN REQUIREMENTS**

A. Concrete: Contractor shall be responsible for determination of concrete job mix(es) from within the limits specified in IDOT Std. Spec., Section . Mix(es) shall be derived from tests performed by a qualified testing agency. Mix designs shall be submitted to Owner for approval. Air content for all Portland cement concrete shall be 5.0 percent to 8.0 percent. The slump shall be 2 in. to 4 in. The modulus of rupture for all concrete flat slab work shall be 4000 PSI compressive strength at 14 days of age.

1. Sawn transverse and longitudinal joints shall conform to the following table:

Width of pour at Widest Point	No. of Longitudinal Saw Cuts
0' - 12'	0
12' - 24'	1
24' - 36'	2

2. Number of Transverse Saw Cuts shall be placed every 12-15 feet. The longitudinal joints between pours shall be tied together to allow the transfer of loads. This shall be accomplished either by in the drilling and epoxying 1/2 in. dia. Tie-bars 18 in. in length every 18in. measured along the edge or by forming a key-way in the first pour so that the subsequent pour will fill the key-way joining the pours. The sawed joints shall be spaced evenly throughout the pavement. Contractor shall submit joint layout to Architect for approval. Joints in the pavement shall align with joints in the curb and gutter. The sawed joints shall be 1/8-inch wide with a minimum depth of one-fourth the pavement thickness and sealed with an approved hot-poured joint sealant meeting the requirements of Article 1050.02 of the Standard Specifications.

3. Three-fourths inch thick expansion joints shall be placed between driveway pavement and sidewalks and between driveway pavement and curb and gutter.

4. All concrete surfaces shall be coated with a curing/sealing compound such as BASF Kure-N-Seal 25 LV or approved similar compound. The compound shall be applied at the rate and number of coats recommended by the manufacturer for curing and sealing of the concrete surface. The intention of the application of this material is to provide a film to assist in the curing of the concrete and future protection by saline attack.

B. Asphaltic Concrete: Contractor shall be responsible for determination of Asphaltic concrete job mix formula(s) within the limits specified by IDOT. Formula(s) shall be derived from tests performed by a qualified testing agency. Results of previous tests performed on aggregates from same source and using Asphaltic material of same brand as used in a previous mix design may be used. Mix designs shall be submitted to Owner for approval.

1. Place Bituminous concrete binder and Surface courses to the lines and grades shown in accordance with IDOT Std. Spec., Section 406. Binder course shall be Type 1 Mixture B and Surface course shall be Type 2 Mixture C. Asphaltic mixture for binder and surface courses shall consist of 3 percent - 9 percent asphalt cement (by weight). Compact pavement until roller marks are eliminated and not less than 92 percent - 96 percent of the control density is obtained.

C. Base Course: Place crushed aggregate base course to the lines and grades shown in accordance with IDOT Std. Spec. Base course shall be Aggregate 22A. Compact base course in 6 in. maximum lifts to 95 percent of Standard Proctor density, ASTM D698.

**8. TESTING**

A. Contractor shall arrange and pay for soil and base course testing as required by the Contract Documents and as follows: (Contractor to schedule & assist)

- 1. Site Fill: Perform at least one field density test for every 10,000 sq. ft. of fill placed within building, slab, and pavement areas, with at least one test for every 2 ft. of fill placed.
- 2. Utility Trench Backfill: Perform at least two tests in random compacted backfill layers for every 400 lineal ft. of trench under pavements and slabs.
- 3. Detention Pond Dikes: Perform at least one test for every 100 lineal ft. of dike in random fill layers.
- 4. Base Course: Perform at least one field density test for every 10,000 sq. ft. of base course placed.
- 5. Failed Tests: If any of the above tests indicated that materials have been placed at a lower density than required, perform additional tests as required to determine the extent of the deficiency.

B. Contractor shall arrange and pay for asphalt and concrete testing as required by the Contract Documents.

C. Contractor shall arrange and pay for testing of pipe lines as specified below.

**9. VERIFICATION OF CONDITIONS**

A. Verify grades, lines, levels, locations, and dimensions as shown, and inspect surfaces that are to receive work before proceeding. Contractor shall be solely responsible for accuracy of measurements and laying out of its work. Notify Owner in writing in case of unsuitable conditions, defective substrates, or discrepancies in Contract Documents. Starting of work shall imply acceptance of conditions.

**10. PROTECTION**

A. Protect improvements on site and on adjoining properties. Provide barricades, coverings, or other types of protection as necessary and to safeguard against injury. Restore to original condition improvements damaged by the work or improvements which required temporary removal during construction.

B. Contractor shall not go into wetland areas as designated on Drawings.

**11. TRAFFIC CONTROL**

A. Furnish and maintain construction barricades and traffic control devices when working in areas open to traffic. Barricades and traffic control devices shall comply with IDOT standards.

**12. EROSION CONTROL**

A. Conduct construction operations in a manner to minimize soil erosion. At a minimum, provide and maintain silt fence at locations shown on Drawings. Provide additional silt fence, dikes, ditch checks, riprap, seeding, sodding jute mesh, and other measures to insure that soil from site does not enter waterways or adjoining property.

B. Erosion control measures shall comply with the Drawings; the Soil Erosion and Sedimentation Control Plan provided by Owner, and the Standard Specifications for soil erosion control and sediment control by IEPA (NPDES Permit No. ILR10).

C. All ditches and discharges over 3 percent grade shall be riprapped as directed by Engineer.

D. Contractor shall conduct the following inspections:

- 1. Weekly inspections of implemented erosion and sediment controls.
- 2. Inspections of erosion and sediment controls within 24 hours after a precipitation event 0.5 in. or greater which results in runoff during active construction periods.

E. Contractor shall prepare and submit to Owner weekly written reports of all inspections that include:

- 1. Date, time, and exact place of inspection.
- 2. Name of individual who performed inspection.
- 3. An assessment of condition of erosion and sediment controls.
- 4. A description of any erosion and sediment control implementation and maintenance performed.
- 5. A description of the present phase of construction at site.

**13. UTILITIES**

A. Contractor shall notify all utilities that might have facilities in project area at least three working days in advance of starting construction. Have underground facilities located and flagged prior to beginning work.

**14. DEMOLITION**

A. Demolish existing buildings located within construction limits. Remove foundations, footings, concrete slabs, pavements, and utilities within the property boundary limits shown on Drawings. Legally dispose of debris offsite.

**15. CLEARING AND GRUBBING**

A. Remove trees, stumps, snags, shrubs, brush, heavy growths of grass weeds and other vegetation, improvements, rubbish and debris, and obstructions that interfere with proposed construction, remove items only as necessary for completion of work.

B. Cut brush and vegetation flush with ground. Grub out stumps, roots having a diameter of 2 in. or larger, and root clusters to a depth of at least 24 in. below subgrade elevation for pavements, structures, and embankments and 6 in. below ground surface in other areas.

**16. TOPSOIL STRIPPING**

A. Strip topsoil from project area to whatever depths encountered; prevent intermingling with underlying subsoil or other objectionable material. Remove heavy growths of grass from areas before stripping topsoil.

B. Stockpile topsoil in storage piles in areas as designated by Owner. Construct storage piles to freely drain surface water. Cover or sprinkle water on storage piles to prevent windblown dust; Remove excess from site.

**17. SITE GRADING**

A. Grading: Grade site by cutting and filling to achieve lines and grades shown, less allowances for slabs, pavements, and topsoil. Finish surface to be reasonably smooth and free from irregular surface changes. Tolerance for areas to receive slabs or pavements shall be 0.10 ft. above or below established subgrade. Tolerance for areas to receive topsoil shall be 0.30 ft. above or below established subgrade.

B. Unsuitable Materials: Excavate organic, frozen, wet, soft, and loose soils (including previously placed uncompacted fill soils), boulders; and other unsuitable materials from beneath proposed foundations, slabs, pavements, and detention pond dikes. In areas where peat and marl soils are encountered under new pavements, a 3 ft. to 4 ft. buffer of suitable material shall be provided between peat and marl soils and pavement.

C. Subgrade: Prior to filling, proof-roll exposed subgrade to detect areas in which must be undercut or improved by appropriate preparation and compaction techniques. The exposed soils should be thoroughly proof compacted with at least 10 overlapping passes of a 10 ton vibratory roller or other equipment of similar size and weight. Granular soils encountered in the footing excavations shall be compacted to a minimum of 95 percent of the Maximum Modified Proctor (ASTM D1557) dry density. Pavement section for this project is based on granular soils in subgrade. Consult with Geotechnical Engineer if cohesive soils are present on pavement subgrades. Subgrade for foundations, slabs, pavements, and fill shall be approved by Geotechnical Engineer.

D. If unsuitable bearing soils are removed from beneath proposed footings, excavation shall extend laterally beyond perimeter of foundation for a distance at least equal to thickness of backfill below footing base. This provision shall also apply where a raised structural pad is constructed to achieve a bearing elevation greater than the existing grades.

E. Take steps to prevent excessive drying or wetting of exposed footing, slab, and pavement subgrade soils.

F. Fill: Fill materials shall be clean granular material or low plasticity cohesive soil. Suitable on-site cut material may be used for required fills. Provide additional off-site fill as necessary to bring site to required grades. Fill materials shall be approved by Geotechnical Engineer.

G. Provide 6 in. of granular fill immediately below concrete floor and exterior slabs. Granular fill below floor slabs shall be free-draining sand and gravel, with 100 percent passing a 2 in. sieve and a maximum of 5 percent passing a No. 200 sieve.

H. Place fill in pavement areas, detention pond dikes, under building foundations and slabs, under outlet building pads, and within 10 ft. of building lines in loose lifts not more than 9 in. thick, at a moisture content at or near optimum, and compact to at least 95 percent of maximum Standard Proctor density (ASTM D698). Place fill in landscape areas in loose lifts 12 in. thick and compact to 90 percent of maximum Standard Proctor density. Moisture content shall be within 2 percent proctor optimum moisture.

I. Place each layer of fill on a maximum 1 (V) :5 (H) slope; step and bench fills if necessary.

J. Backfill: Place fill or backfill adjacent to structures in a manner to prevent damage and allow structures to assume loads gradually and uniformly, at approximately same rate on all sides. Backfill for foundation walls and behind retaining walls for a lateral distance of at least 3 ft. to 4 ft. or for a distance at least equal to width of base of footing, whichever is greater, shall be well-graded, free draining granular material.

K. Dewatering: Perform site grading in a manner to prevent surface water and ground water from flowing into work area. Promptly remove water from excavations using pumps, sumps, and dewatering system components necessary to convey water away from excavations. Convey water removed from excavations and rain water to collections or run-off areas. Provide and maintain temporary drainage ditches. If underground springs or drain tile are encountered, notify Geotechnical Engineer before proceeding. When possible maintain existing drain tile or reroute into new storm sewer.

**18. TRENCHING FOR UTILITIES**

A. Excavate trenches so that pipe can be laid safely and accurately to required line and grade. Hand excavate for bells, fittings and projections to allow for proper jointing and to insure that pipe rests evenly along barrel and is not resting on a bell.

B. If rock is encountered during trenching, contact Owner before proceeding further with affected pipeline.

C. Dewater trenches as required to provide stable bedding for pipe. Dewatering will be incidental to work; no additional compensation will be allowed.

D. When trench bottom is unstable because of ground water, Geotechnical Engineer may require extra excavation to remove unstable material and replace it with crushed stone.

E. In sand and gravel soils, bottom of trench may be shaped to fit bottom 1/3 of pipe. In all and clay soils, bottom of trench shall be 4 in. below pipe barrel and 3 in. below bell. In rock, bottom of trench shall be 6 in. below pipe barrel. Under foundations and footings, bottom of trench shall be 8 in. below pipe barrel.

F. Bedding, haunching, and initial backfill for rigid pipes shall be in accordance with ASTM C12, Class C or better. Bedding, haunching, and initial backfill for flexible pipes shall be in accordance with ASTM D2321, Class II or better. Trenches dug in sandy or gravelly materials may use undisturbed earth for bedding provided surface is shaped to conform to pipe. Provide granular bedding in all other trenches from subgrade to a point supporting bottom 1/3 of pipe for rigid pipe and to springline (mid-height) for flexible pipe. Place and compact bedding so that it fills and supports pipe haunch area.

G. Provide tamped granular initial backfill up to a minimum depth of 1 ft. above pipe. Take special care in placing and tamping initial backfill material so alignment and grade of pipe is not disturbed nor pipe damaged.

H. Backfill more than 1 ft. over pipe shall be granular backfill. Compact backfill in accordance with requirements of "Site Grading" article.

**19. STORM SEWER**

A. Pipe: Storm sewer that is 24 in. diameter and greater shall be reinforced concrete, unless otherwise noted. Storm sewer that is less than 24 in. shall be reinforced concrete, corrugated polyethylene, PVC corrugated sewer pipe, or PVC sewer, at Contractor's option, unless otherwise noted.

B. Reinforced concrete pipe shall comply with ASTM C76, Class III. Joints shall be rubber ring gasket type, ASTM C443.

C. Corrugated polyethylene pipe shall comply with AASHTO M294, Type S, and shall have an integrally formed smooth interior. Joints shall be made with watertight fittings. Provide Advanced Drainage Systems N-12 Sanitary Sewer Pipe & Fittings, Hancor Sure-Lok 10.8, Quality Culvert Q-Seal, or approved equal.

D. PVC corrugated sewer pipe shall comply with ASTM F949 and shall have smooth interior and pipe stiffness of 50 PSI. Joints shall be elastomeric gasket type; double gasket shall fit into first two full corrugations Products A-2000, or approved equal.

E. PVC plastic pipe shall comply with ASTM S3034 or F679, SDR-35. Joints shall be elastomeric gasket, ASTM D2312.

F. Installation: Lay pipe only after project site is filled to subgrade elevations. Establish line and grade using laser equipment. Where practicable, begin laying of pipe at lowest point of proposed sewer line; lay with bell ends up-grade. Clean interior of pipe before installation. Insert tapered plugs into ends of pipeline when pipe is not being laid to prevent entrance of dirt and contaminants. Join pipe in accordance with manufacturer's recommendations.

G. Manhole and Inlets shall have 1 in. diameter weep holes drilled at 2 ft. o.c. at 6 in. below aggregate base. Weep holes shall be covered in appropriate geotextile fabric.

H. Stone Backfill: Washed evenly graded gravel or crushed stone with 100 percent passing 1 in. sieve and not more than 5 percent passing No. 8 sieve.

I. Inspection and Testing: Contractor shall perform the following inspections and tests in presence of Engineer:

- 1. Leakage Inspection: Storm sewer's shall be inspected for excessive infiltration and sand leakage. Contractor shall repair all sand leaks and infiltration leaks which may cause a continued maintenance problem.
- 2. Alignment and Grade: Check alignment and grade by lamping method. If pipe shows poor alignment, offset or open joints, sags, or kinks; defects shall be corrected by Contractor before final acceptance . Pipeline shall be retaid if lamp cannot be viewed between adjacent manholes.
- 3. Deflection Limitation: Deflections in PVC and PE pipe shall be limited to 5 percent of nominal pipe diameter. If visual inspection indicates a greater deflection, Contractor shall supply and pull a ball with a diameter 5 percent less than internal pipe size through sewer; failure to freely pass through shall be cause for rejection of sewer.

**20. DOWNSPOUT LATERALS**

A. Pipe: PVC drains from downspouts to storm sewer shall be PVC-DWW pipe, ASTM D2665, with solvent weld joints.

B. Stone Backfill: Washed evenly graded gravel or crushed stone with 100 percent passing 1 in. sieve and not more than 5 percent passing No. 8 sieve.

**21. PAVEMENT AND RETAINING WALL DRAIN TILE**

A. Underdrain Pipe: Perforated corrugated polyethylene drainage pipe complying with AASHTO M252.

B. Pipe Wrap: Synthetic fabric with an approximate weight of 3 oz./sq. yd.; ADS Sock, or approved equal.

C. Underdrain Aggregate: Clean washed, 1/2 in. stone chips or pea gravel. 1/2 in. stone chips shall be graded in accordance with ASTM C33, Size No. 7. Pea gravel shall consist of rounded, free flowing aggregate with particle size not more than 3/4 in. and not less than 1/8 in. in diameter.

D. Geotextile Fabric: Drainage filtration fabric complying with IDOT Std. Spec., Section 282.

**22. MANHOLES AND INLETS**

A. Manholes: Manholes shall be precast reinforced concrete rings, ASTM C478, of sizes shown on Drawings. Joint shape shall be compatible with designated joint materials. Stops and pipe seal components shall be cast into riser sections. Joint materials shall be rubber ring gaskets or plastic gasket material. Pipe seals shall be flexible, watertight-gasketed seals for pipe entrance holes, except that mortar seals may be used for storm sewer pipe. All inverts shall be poured or precast. Base slab shall be integrally precast with wall section.

B. Inlets: Small inlets (36 in. or less diameter) shall be reinforced concrete pipe sections, ASTM C76, sizes shown on Drawings. Rectangular inlets shall be precast reinforced concrete, 5 in. minimum wall and base thickness, dimensions as shown on Drawings. Inlet joints and pipe seals shall be cement mortar or resilient gaskets and seals.

C. Castings: Frames and lids shall be cast iron, ASTM A48, Class 30, of uniform quality, free from blow holes, porosity, hard spots, shrinkage defects, cracks or other serious defects. Manhole castings shall be true to pattern with machined bearing faces between frame and cover.

D. Steps: ASTM C478; cast iron (as specified above) or steel reinforced copolymer polypropylene.

E. Concrete: Concrete for inverts shall have 3 percent to 5 percent air-entrainment and a minimum compressive strength of 3000 PSI at 28 days.

F. Installation: Manholes with more than one entrance pipe and manholes at changes in alignment or grade shall have formed flow channels with smooth radius transitions. Pipe seals shall be completed in accordance with manufacturer's instructions. Pipes with flexible seals shall be supported outside manholes by bedding as specified for type of pipe installed.

**23. OUTFALLS AND OVERFLOWS**

A. All ditches and discharges over 3 percent grade shall be riprapped as directed by Engineer.

B. Riprap: Riprap shall be class A3 in accordance with IDOT Std. Spec., Section 281, for Riprap.

C. Geotextile Filter Fabric: Filter fabric shall be in accordance with IDOT Std. Spec., Section 282, Geotextile Liner for Riprap.

D. Installation: Install filter fabric as shown and in accordance with manufacturer's recommendations. Surface to receive fabric shall be smooth and free of obstructions, depressions, and debris. Lay fabric parallel to direction of water flow. If lapping of fabric is required, minimum overlap shall be 2 ft. Overlaps may be eliminated if fabric sections are either factory or field sewn. Seam strength shall be at least 80 percent of fabric tensile strength. Secure fabric in place by precast shifting before or during placement of stone or riprap. Place riprap from base of slope upward; height of riprap freefall shall be no more than 1 ft. Repair or replace torn or punctured fabric in accordance with manufacturer's instructions; no extra compensation will be allowed.

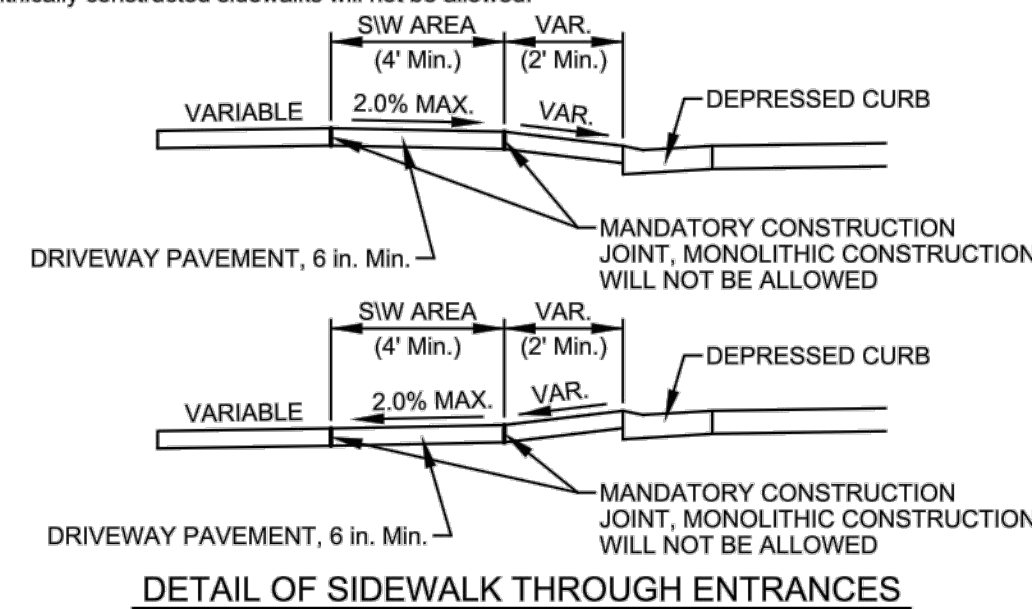
**24. CURB AND GUTTER, WALKS, SLABS AND RETAINING WALLS**

A. Concrete curb and gutter shall be in accordance with IDOT Std. Spec. Locate contraction joints at 20 ft. on center, unless otherwise shown. Locate expansion joints at minimum 100 ft. on center, unless otherwise shown.

B. Concrete walks, islands, truck docks, and other slabs shall be in accordance with IDOT Std. Spec. Unless otherwise shown, locate sidewalk contraction joints at 5 ft. on center and expansion joints at 50 ft. on center, unless otherwise shown, locate contraction joints in larger slabs at 15 ft. intervals in each direction, reinforced with #4 bars.

C. Concrete and reinforcing for retaining walls shall be in accordance with IDOT Std. Spec.

D. Concrete walks crossing through entrances shall be in accordance with the detail shown below. Monolithically constructed sidewalks will not be allowed.



**25. PAVEMENT MARKING**

A. Paint line work on asphaltic paving, concrete curbs, walks, and ramps as shown. Paint shall be factory mixed, quick-drying, non-bleeding traffic marking paint complying with AASHTO M248, Type S. Color shall be white, except where another color is required by Code.

B. Clean surface in areas to receive markings. Paint markings and symbols with traffic marking paint. Apply paint with mechanical equipment to produce uniform straight edges. Apply two coats at manufacturer's recommended rates.

**26. SEEDING**

A. Fertilizing, seeding, and mulching shall be in accordance with IDOT Std. Spec.

B. The seed mixture shall be specified under IDOT Class 1.

Application rates for fertilizer shall be as follows:	
Nitrogen Fertilizer Nutrient	100 lbs. per acre
Phosphorus Fertilizer Nutrient	100 lbs. per acre
Potassium Fertilizer Nutrient	100 lbs. per acre
Agricultural Ground Limestone	4 tons per acre
Mulch, Method I	2 tons per acre

C. Seeding shall be performed by hydroseeding with mulch and tackifying agent included in mixture.

D. Contractor shall obtain a letter of acceptance from the owner and provide a 1 year guaranty on the work performed.

**27. DISPOSAL**

A. Remove from Owner's property and legally dispose of excess excavated material, trash, debris, and waste materials.

**28. CURB RAMPS**

A. Curb ramps shall be in compliance with the ADA Accessibility Guidelines, Illinois Disability Code (71 Illinois Administrative Code, CH.1, & 400.310 SUBCHAPTER b), and Section 424 of the IDOT Standard Specifications.

B. Curb ramps shall be a minimum of 48 in. in width and shall lie generally, in a single slope plane, with a minimum of surface warping and cross slope.

C. The slope of curb ramps shall not exceed 1:12 or 8.33%, the slope of the flanned or flared sides of curb ramps shall not exceed 1:10 or 10%.

D. The slope of adjoining gutters, road surface immediately adjacent to curb ramp, or accessible route shall not exceed 1:20 or 5%. All curb less than 5 in. and/or variable height shall be painted a contrasting color.

E. The surface of each curb ramp and its flared sides shall be slip-resistant and shall be of contrasting finish from that of the adjacent sidewalk.

F. Curb ramps shall be constructed to the same thickness as the adjacent sidewalk with a minimum thickness of 4 in.

**GENERAL NOTES:**

THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).

ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.

THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

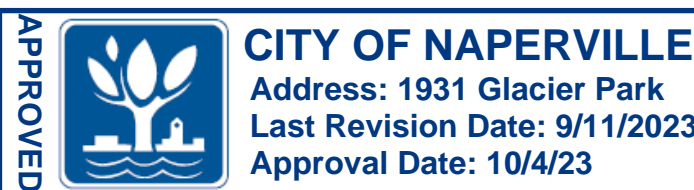
THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.

THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6082 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).

RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.

STORM SEWERS: WHEN ADJUSTMENTS ARE NECESSARY, ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED.



R E V I S I O N S				
No.	DATE	DESCRIPTION	BY	
0	6-7-2023	PLAN SET SUBMITTAL	ECH	
1	8-11-2023	REVISED PER		



29. DETECTABLE WARNING

- A. Detectable warnings shall be installed at alleys and commercial entrances when permanent traffic control devices are present and other locations where pedestrians are required to cross a hazardous vehicular way.
- B. Detectable warnings shall be installed if a walk crosses or adjoins a vehicular way, and the walking surfaces are not separated by curbs, railings, or other elements between the pedestrian areas and vehicular areas, the boundary between the areas shall be defined by a continuous, detectable warning, which is 36 in. in width.
- C. Detectable warnings shall be installed at the top of stair runs, except when stairs are set to the side of the path of travel.
- D. The installation shall be an integral part of the walking surface and only the actual domes shall project above the walking surface.
- E. Detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic. The warning area shall begin from the back of the curb and continue 2 ft. in the direction of pedestrian travel for the entire width of the walking surface.
- F. The product or method used for installing detectable warnings shall come with the following documents which shall be given to the Engineer prior to use.
  1. Manufacturer's certification stating the product is fully compliant with the ADAAG.
  2. Manufacturer's five year warranty.
  3. Manufacturer's specifications stating the required materials, equipment, and installation procedures.
- G. Detectable warnings shall also present a contrast in color from the surrounding surface.

30. ADA PARKING
- A. Accessible parking spaces serving a particular building shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance. When disabled parking is located such that the path of travel from the disabled parking spaces to a building or facility requires a disabled person to travel in to the public way, the entire path of travel including that portion in the public way, shall conform to all applicable code requirements.
  - B. Surface slopes of parking spaces for the physically disabled shall not exceed 1:50 or 2% in any direction.
  - C. Each accessible parking space reserved for the disabled shall be identified by a permanently affixed sign (71 Illinois Administrative Code, CH.I, & 400.310 SUBCHAPTER b).
    1. Signs shall be a minimum 12-in. x 18-in. x 18 ga. Cold rolled galvanized steel, treated for a baked enamel finish. Colors, text and design per 71 Illinois Administrative Code, CH.I, & 400.ILLUSTRATION C & D.
    2. Sign shall be vertically mounted on a post or wall at front center of the parking space, no more than 5 ft. horizontally from the front of the parking space and set a minimum of 4 ft. from finished grade to the bottom of the sign. (See 71 Illinois Administrative Code, CH.I, Section 400.310 (c) (7)) Sign shall be mounted on a single 2 in. round steel post with painted enamel finish. Post shall be supported by a precast concrete base.
    3. Signs shall be set plumb and level. Touch-up any abrasions to finish. Completely clean signs of all foreign matter.
  - D. A high quality yellow paint recommended by the paint manufacturer for pavement striping shall be used.

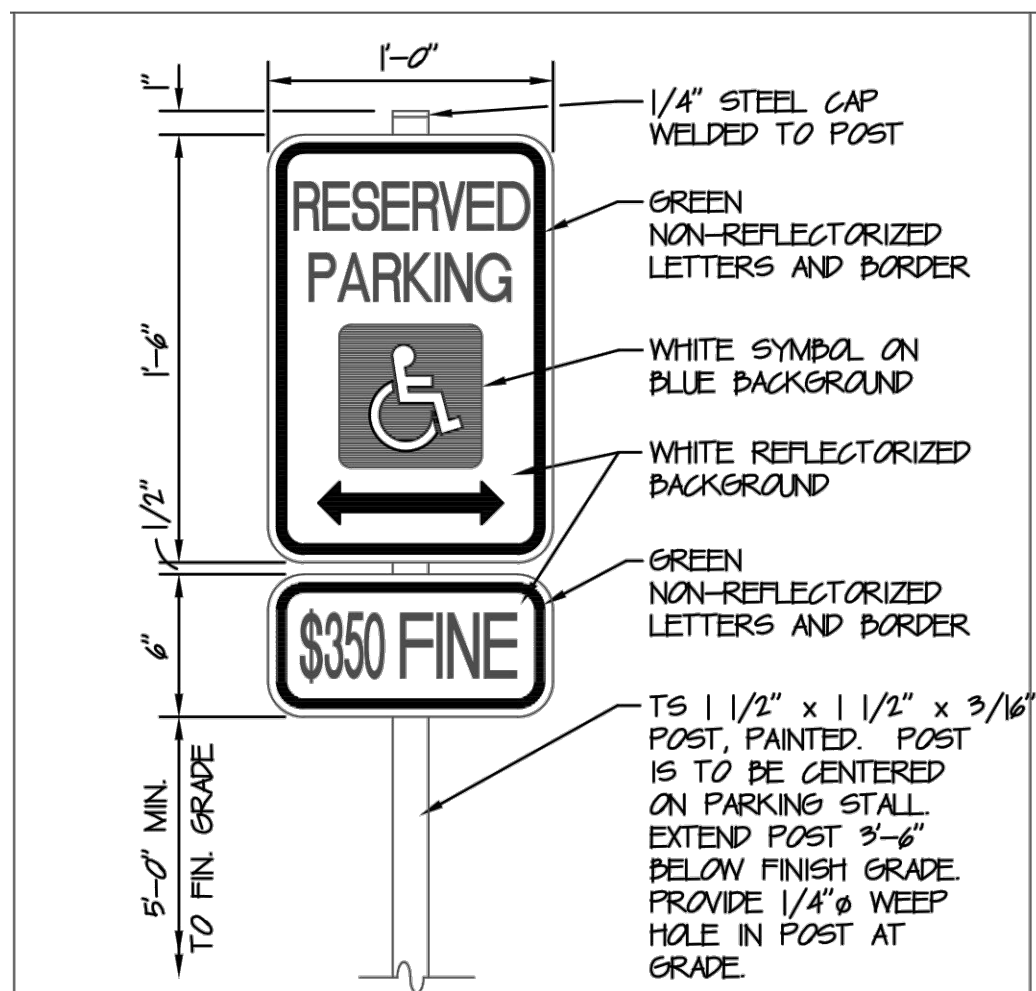
31. WALKS AND SIDEWALKS
- A. Walks and sidewalks subject to these regulations shall have a continuous common surface, not interrupted by step or by abrupt changes in level exceeding 1/2 in. and shall be a minimum of 48 in. in width.
  - B. Surface cross slopes shall not exceed 1:50 or 2%.
  - C. Surface with a slope of 5% gradient or greater shall be slip-resistant.
  - D. When the slope in the direction of travel of any walk exceeds 1:20 or 5%, it shall comply with the provisions for pedestrian ramps.
  - E. Abrupt changes in level along any accessible route shall not exceed 1/2 in. When changes in level do occur, they shall be beveled with a slope no greater than 1:2 except that level changes not exceeding 1/4 in. may be vertical.
  - F. When changes in levels greater than 1/2 in., they shall comply with the requirements for curb ramps.
  - G. Walks shall be provided with a level area not less than 60 in. by 60 in. at a door or gate that swings toward the walk, and not less than 48 in. wide by 44 in. deep at a door or gate that swings away from the walk. Such walks shall extend 24 in. to the side of the strike edge of a door or gate that swings toward the walk.

32. RAMPS
- A. Pedestrian ramps serving primary entrances to building shall be a minimum 48 in. clear width, but not less than the width required for exits.
  - B. Top and bottom landings shall not be less than the ramp run leading to it and shall have a length of not less than 60 in. in the direction of the ramp run.
  - C. Other intermediate landings shall have a minimum dimension of 60 in. by 60 in.
  - D. Doors at the landing shall comply with 71 Illinois Administrative Code, CH.I, Section 400.310 (j) (5).
  - E. The width of the landing shall extend 24 in. past the strike edge of any door or gate for exterior ramps.
  - F. The cross-slope on a ramp or the slope across a ramp landing in any direction shall not exceed 1:50 or 2%.
  - G. The maximum slope shall be 1:12 or 8.33% and the maximum rise for any run shall be 30 in.
  - H. The surface of ramps shall be slip-resistant.
  - I. Handrails are required on ramps that have a ramp run rise greater than 6 in. or a horizontal projection greater than 72 in.
  - J. Handrails shall be placed on each side of ramp, shall be continuous the full length of the ramp, shall be 34 in. above the ramp surface, shall extend a minimum of 1 ft. beyond the top and bottom of the ramp, and the ends shall be returned.
  - K. Handrails projecting from a wall shall have a space of not less than 1-1/2 in. between the wall and the handrail.
  - L. The grip portion of the handrail shall be not less than 1-1/4 in. nor more than 2 in. in cross-sectional dimension, or the shape shall provide an equivalent gripping surface and all surfaces shall be smooth with no sharp corners.

STANDARDS

\*\* SEE CURRENT I.D.O.T. HIGHWAY STANDARD REVISION STANDARDS CAN BE FOUND AT (<https://dot.illinois.gov/index>) "Resources" button; "Standards" button

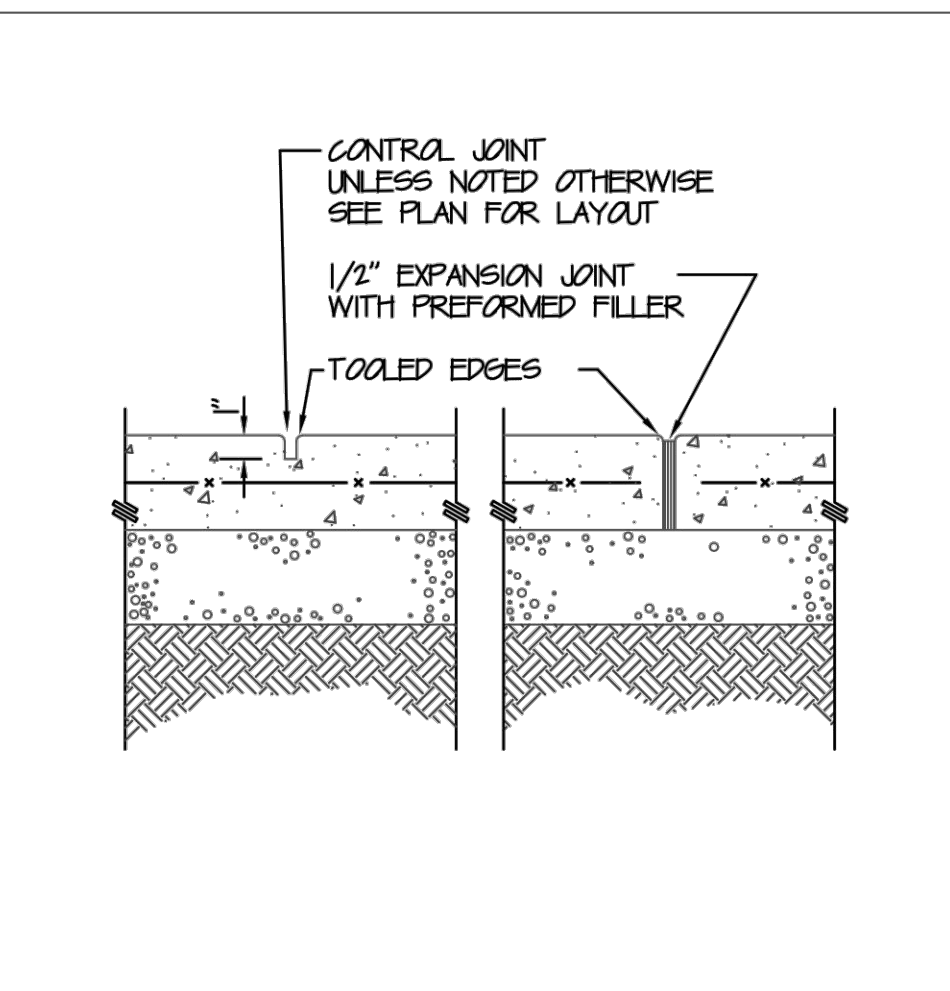
280001 Temporary Erosion Control Systems  
701901 Traffic Control Devices



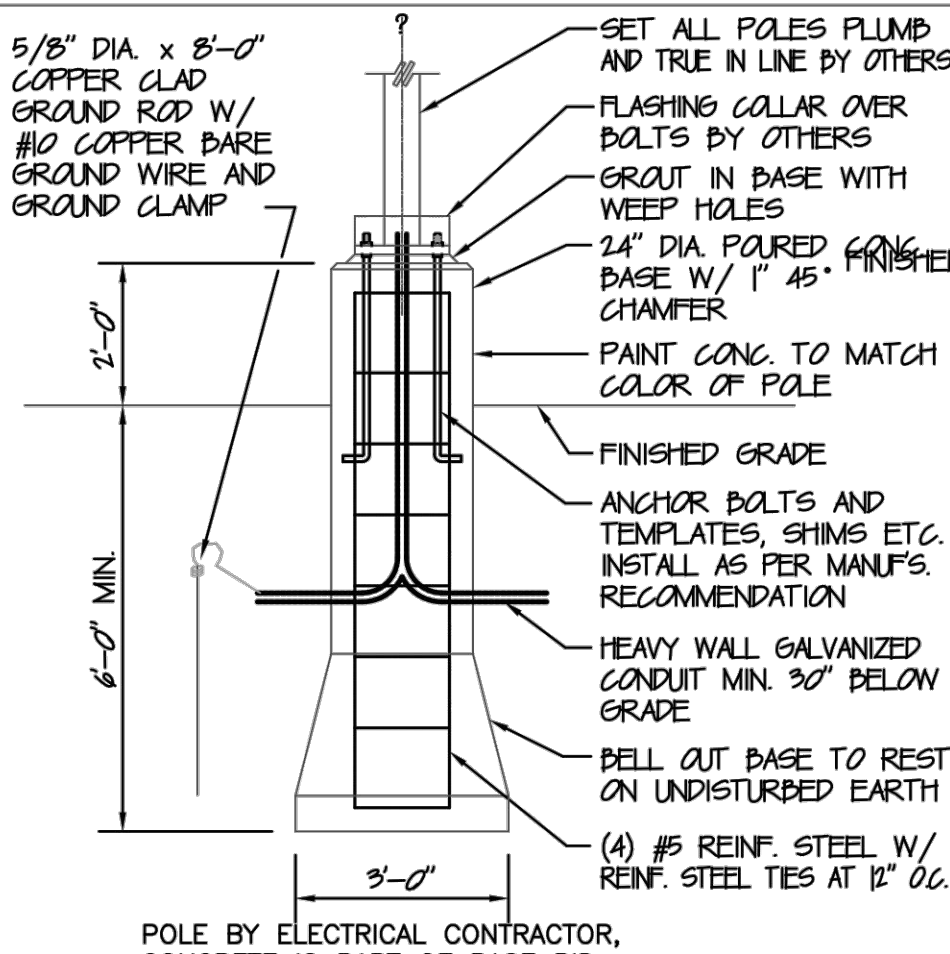
1 HANDICAP SIGN

- CURB NOTES:**
1. CURBS SHALL HAVE CONTROL JOINTS AT 15'-0" O.C. AND EXPANSION JOINTS AT 60'-0" O.C. AND AT TANGENT POINTS OF ALL RADII OF LESS THAN 100'-0".
  2. CURB CONTROL JOINTS SHALL BE 2" DEEP SAW CUTS MADE WITHIN 48 HOURS OF PLACING CONCRETE. MAXIMUM SPACING TO BE 15'-0" O.C.
  3. CURB REINFORCING STEEL SHALL NOT RUN THRU EXPANSION JOINTS.
  4. LAP BARS 12" AT ALL SPLICES.
  5. REINFORCING STEEL DOWELS SHALL BE PROVIDED AT ALL CURB CONSTRUCTION JOINTS.
  6. EXPANSION JOINTS SHALL BE 1/2" WIDE PREFORMED FILLER, FULL DEPTH.
- PAVEMENT NOTES:**
1. PAVEMENT SHALL BE 6" THICK P.C. CONCRETE W/ 15#/CY FIBER REINFORCING ON 4" COMPACTED GRANULAR BASE.
  2. CONTROL JOINTS SHALL BE SPACED AS TO OBTAIN APPROXIMATELY SQUARE SECTIONS W/ A MAXIMUM SPACING OF 10'-0" O.C. IF NOT SHOWN ON DRAWINGS.
  3. EXPANSION JOINTS SHALL BE SPACED 30'-0" O.C. AND WHERE PAVEMENT ABUTS A STRUCTURE.
- SIDEWALK NOTES:**
1. SIDEWALKS SHALL BE 4" THICK P.C. CONCRETE W/ 15#/CY FIBER REINFORCING ON 2" MIN. COMPACTED GRANULAR BASE.
  2. CONTROL JOINTS SHALL BE SPACED AS TO OBTAIN APPROXIMATELY SQUARE SECTIONS. EXPANSION JOINTS WHERE PAVEMENT ABUTS A STRUCTURE.

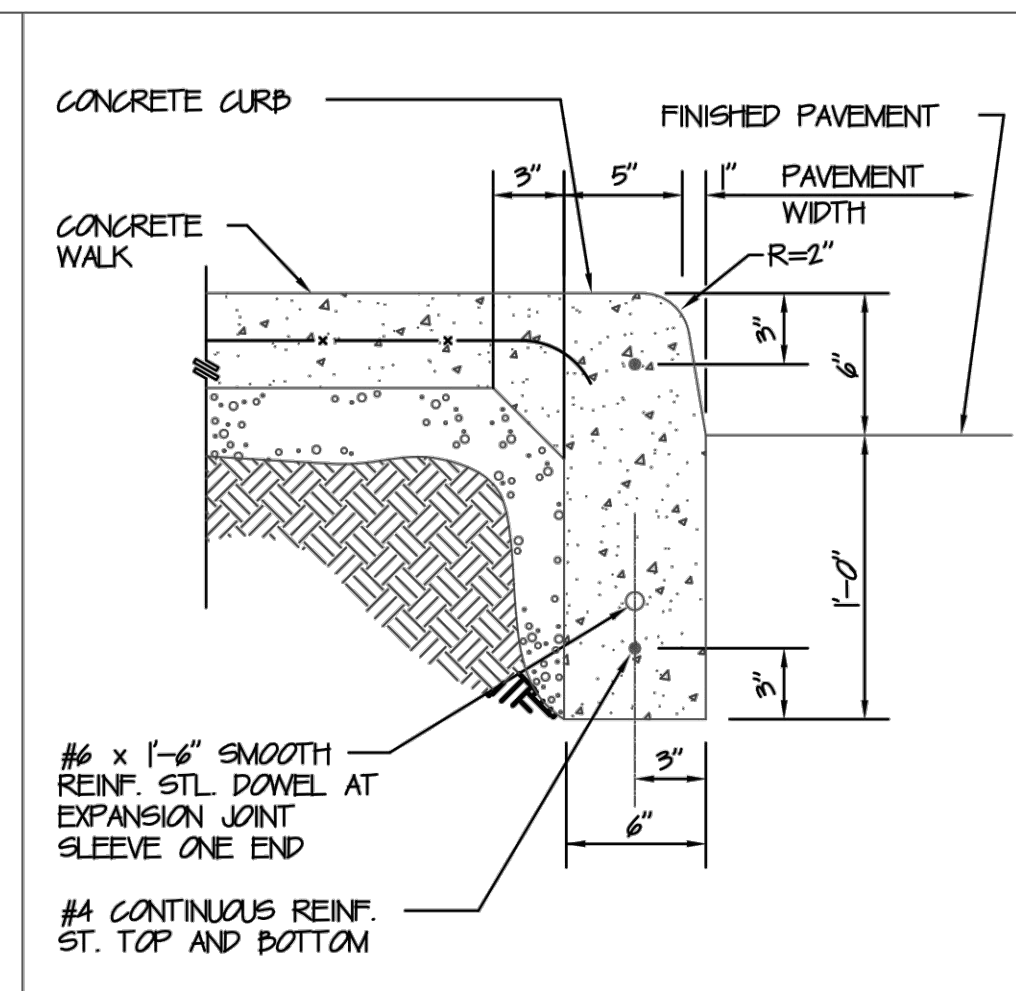
5 CONCRETE NOTES



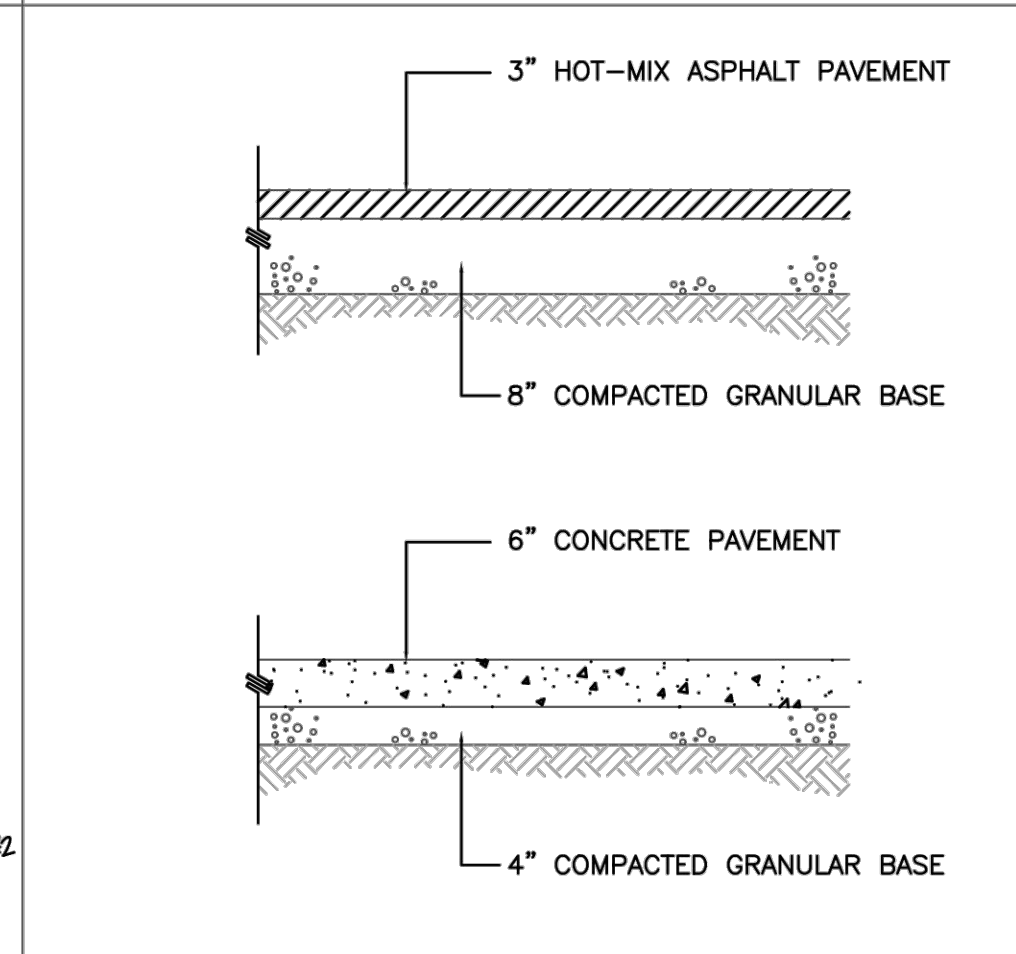
2 CONCRETE JOINTS



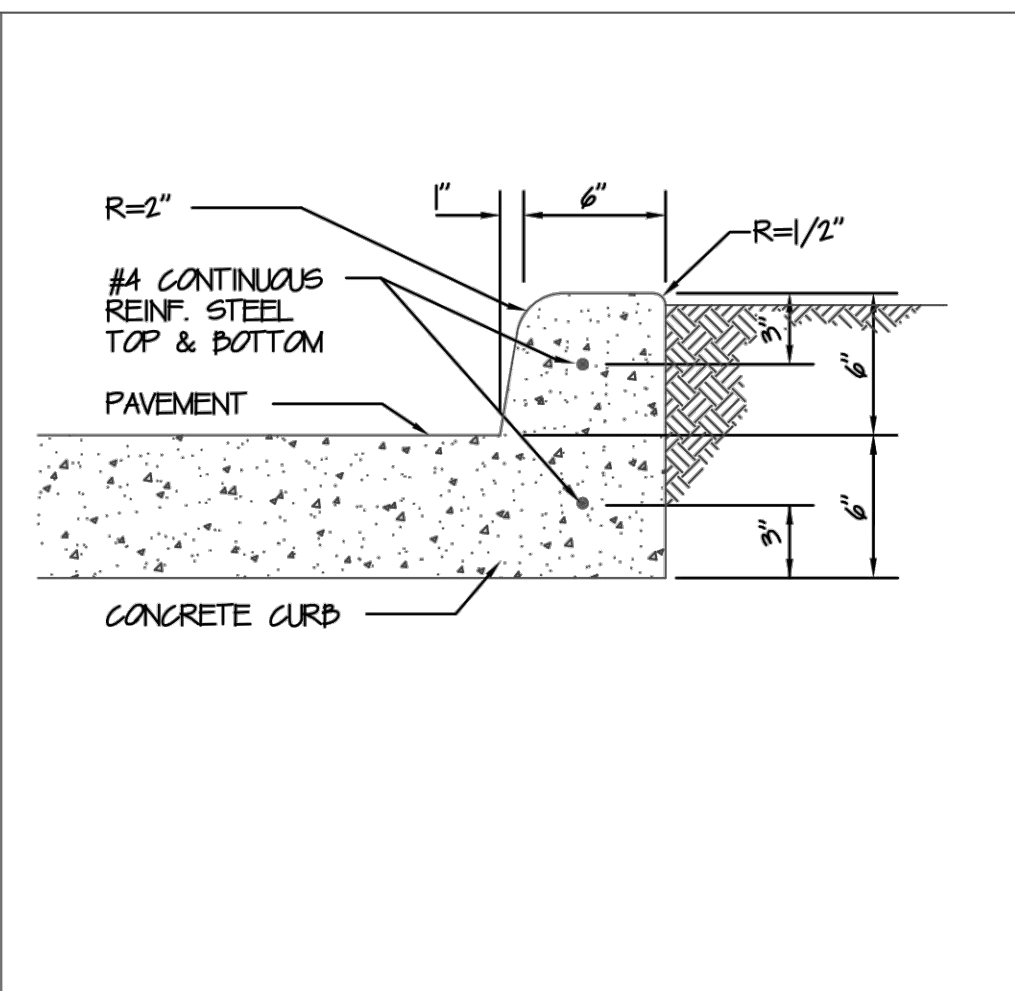
6 LIGHT POLE BASE



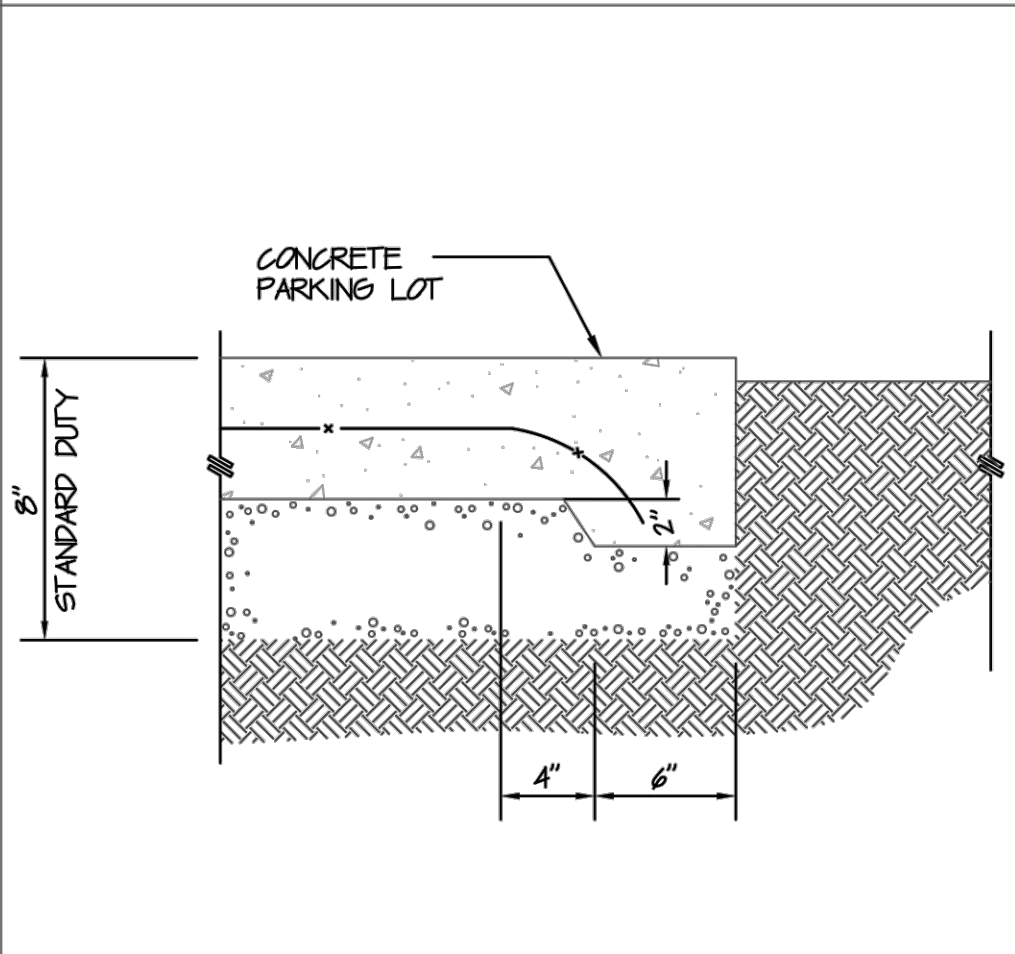
3 CURB AT WALK



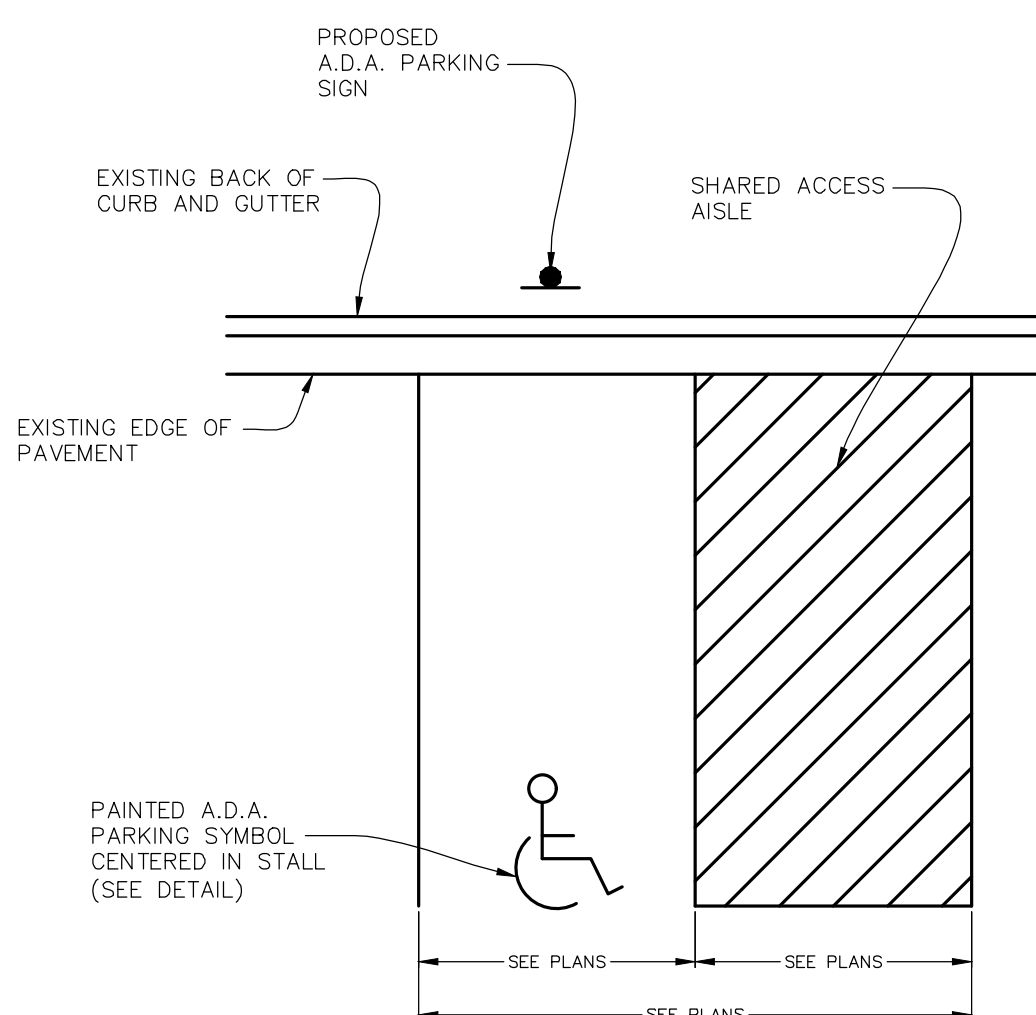
7 PAVEMENT SECTION



4 BARRIER CURB

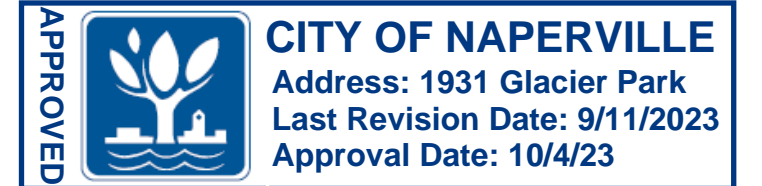


8 APRON EDGE



- NOTES:**
- 1.) ALL PAVEMENT STRIPING SHALL BE VISIBILITY YELLOW.
  - 2.) MAXIMUM SLOPE WITHIN ALL A.D.A. PARKING STALLS SHALL NOT EXCEED 2.0% IN ANY DIRECTION.

A.D.A. PARKING LAYOUT  
NOT TO SCALE



REVISIONS				
No.	DATE	DESCRIPTION	BY	
0	6-7-2023	PLAN SET SUBMITTAL	ECH	
1	8-11-2023	REVISED PER CITY OF NAPERVILLE REVIEW	ECH	
2	9-11-2023	REVISED TRANSFORMER LOCATION	DJZ	

DOCUMENTATION:				
PROJECT No.:	DATE:	FIELD BOOK:	DRAWN BY:	CHECKED BY:
20230186	3-11-2023	b:28-43 p:45-46	ech	DJZ

**RT & A**  
**Ruettiger, Tonelli & Associates, Inc.**  
Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
PH. (815) 744-6600 FAX (815) 744-0101  
website: www.ruettigertonelli.com

PROJECT TITLE:  
**SCOOTER'S COFFEE DRIVE-THRU**  
**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

DRAWING TITLE:  
**CONSTRUCTION NOTES AND DETAILS**

DRAWING No.  
323-0186-C1

SCALE:  
AS NOTED

SHEET C7.00

N:\19310203186\Engineering\Plan\_Sheet\_C1 - Scooter's Coffee Drive Thru\Notes Detail 02.dwg, Layout1, 9/11/2023, 2:02:10 PM, Administrator

**City of Naperville STANDARD DETAIL**  
SANITARY SEWER MANHOLE  
REVISOR: 08/01/2018  
SHEET 1 OF 1  
390.01

**City of Naperville STANDARD DETAIL**  
SANITARY MANHOLE - FRAME & COVER  
REVISOR: 01/01/2013  
SHEET 1 OF 1  
390.06

**City of Naperville STANDARD DETAIL**  
TRENCH SECTION FOR PVC PIPE  
REVISOR: 01/01/2013  
SHEET 1 OF 1  
390.10

**City of Naperville STANDARD DETAIL**  
SANITARY SEWER CLEANOUT  
REVISOR: 11/05/2020  
SHEET 1 OF 1  
390.23

**City of Naperville STANDARD DETAIL**  
STORM MANHOLE - TYPE A  
REVISOR: 08/01/2018  
SHEET 1 OF 1  
290.01

**City of Naperville STANDARD DETAIL**  
SERVICE TAP AND CONNECTION  
EFFECTIVE: 7/17/2020  
SHEET 1 OF 1  
490.20

**City of Naperville STANDARD DETAIL**  
UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)  
REVISOR: 01/01/2013  
SHEET 1 OF 1  
590.13

**City of Naperville STANDARD DETAIL**  
B6.12 BARRIER CURB & GUTTER  
REVISOR: 01/01/2013  
SHEET 1 OF 1  
590.20

**City of Naperville STANDARD DETAIL**  
ACCESSIBLE PARKING SPACE MARKINGS  
REVISOR: 01/01/2013  
SHEET 4 OF 4  
590.35

**City of Naperville STANDARD DETAIL**  
FRAME & GRATE FOR B-6.12 CURB & GUTTER  
REVISOR: 06/15/2015  
SHEET 1 OF 1  
290.11

**UNDERDRAIN YARD INLET INSTALLATION**  
NOT TO SCALE

**Call Before You Dig**  
**JULIE**  
ORE-CALL SYSTEM  
CONTACT JULIE at 811 or 800-852-0123  
48 Hours (2 Working Days) BEFORE YOU DIG.  
Include the following:  
County, City/Township, Section & 1/4 Section No.

REVISIONS				
No.	DATE	DESCRIPTION	BY	NO.
0	6-7-2023	PLAN SET SUBMITTAL	ECH	
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**SCOOTER'S COFFEE DRIVE-THRU**  
1931 GLAICER PARK  
NAPERVILLE, ILLINOIS

**CONSTRUCTION NOTES AND DETAILS**  
DRAWING No. 323-0186-C1  
SCALE: AS NOTED  
SHEET C8.00

WATER UTILITIES GENERAL NOTES

a. New water main valves, including pressure tap valves, adjacent to an existing water main, and existing water main valves shall only be operated by the City of Naperville, Department of Public Utilities CEE/CM Division personnel with 48-hour notice (Monday-Friday). Contact Naperville TED Business Group at 630-420-6082 for scheduling.

b. Any existing utility structures requiring adjustment or reconstruction shall be completed by the contractor to the satisfaction of the utility owner. Adjustments and/or reconstructions not called for on the plans shall be considered incidental to the contract. No more than a total of 12 inches of adjusting rings and/or 2 adjusting rings shall be allowed. All structure frames shall be flush with final grade.

c. Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, sanitary sewers, sanitary services, water mains, and water services. Trees shall be installed a minimum of ten (10) feet horizontally from utility structures and appurtenances, including, but not limited to, manholes, valve vaults, valve boxes and fire hydrants. No trees, shrubs or obstacles will be allowed 10' in front of, 5' on the sides, and 7' to the rear of the electrical transformer.

d. All retainer glands when required to restrain valves, fittings, hydrants, and pipe joints shall be mechanical joint wedge action type MEGALUG 1100 Series as manufactured by EBBA Iron, Inc. or UNI-FLANGE BLOCKBUSTER 1400 SERIES as manufactured by Ford Meter Box Co. and shall be for use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51, for nominal pipe sizes 3" through 48".

e. All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. All sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241. Greater than 12" shall be Fabricated Fittings meeting ASTM D-2241 or C905. Minimum pressure rating shall be 150 psi.

f. The valves less than 16" shall be standard pattern, gate valves and shall have the name or mark of the manufacturer, size and working pressure plainly cast in raised letters on the valve body. Valves may be approved from one of the following manufacturers: American, Clow, Waterous or Kennedy.

g. Stainless steel nuts, bolts/T-bolts, and washers, Type 304 or better, will be required on all water main installations. This would apply to hydrants, tapping sleeves, valves, fittings, restraint, and other appurtenances buried or in valve vaults. Mechanical joints and restraint glands require 304 stainless steel T-bolts. An anti-seize compound shall be factory applied to nuts or bolts - any damage to this coating shall be repair with field applied approved anti-seize compound that is a molybdenum-base lubricant, Bostik Never-Seez or approved equal.

h. The contractor shall rotate and/or adjust any existing and/or new hydrant to the satisfaction of the Department of Public Utilities.

i. Water mains shall be subjected to a hydrostatic/leakage test in accordance with Naperville Standard Specifications. Test pressure shall be no less than 150 psi for a period of 4 hours and not vary by more than + 5 psi. during the test. The test gauge shall be approved by the City and shall be glycerin or oil filled, with a range of not more than 200 psi and increments not greater than 5 psi, 4 "minimum dial size. Water recovery test shall be completed at the end of the testing period to show actual leaking and that the water main did not have too much trapped air in the tested section.

j. The valves less than 16" shall be standard pattern, gate valves and shall have the name or mark of the manufacturer, size and working pressure plainly cast in raised letters on the valve body. Valves may be approved from one of the following manufacturers: American, Clow, Waterous or Kennedy.

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WATER UTILITIES GENERAL NOTES (continued)

n. The City of Naperville Public Utilities does not guarantee that any valve or fitting in the existing water distribution system will hold against a hydrostatic/leakage test. The Contractor is solely responsible for providing and acceptable pressure test which shall include provisions around existing valves and fittings.

o. Fire hydrant should be bagged "NOT IN SERVICE" until all testing and disinfection has been completed and new water main section is service.

p. Sanitary sewer and water shall be constructed, tested, and placed into service in accordance with City of Naperville Standard Specification and Specifications for Water and Sewer Main Construction in Illinois, Latest Edition.

q. All valve boxes, vaults, hydrants, and manholes shall not be covered with construction debris and shall remain accessible to the respective utility company.

r. Water service line smaller than 3" shall be type K copper. If joints are required due to length of service, then only compression type coupling shall be permitted. No soldered or flared type joints are allowed.

s. All sanitary manholes shall be tested for leakage by vacuum testing. The manhole frame and adjusting rings shall be in place when testing. Any leaks shall be repaired from exterior of manhole - patching inside of manhole shall not be acceptable. A vacuum of 10" (254 mm) Hg shall be place on the manhole and the time shall be measured for the vacuum to drop to 9" (229 mm) Hg. The vacuum shall not drop below 9" (229 mm) Hg for the following time periods for each size of manhole:

- a) 48-inch diameter - 60 seconds
- b) 60-inch diameter - 75 seconds
- c) 72-inch diameter - 90 seconds
- d) 84-inch diameter - 105 seconds

Any manholes that fail the test shall be sealed and re-tested until acceptable.

t. The contractor shall provide internal televised inspection of all installed sanitary sewer, laterals, manholes and connections to the public system. Following completion of televising work, the contractor shall submit video recordings on DVD or flash drive along with a comprehensive televising report which will indicate the location, footages and nature of any defects. Prior to final acceptance, these defects shall be repaired to the satisfaction of the Water/Wastewater Utility and re-televised.

u. Contractor work hours are only allowed from 7:00 a.m. to 5:00 p.m., Monday through Saturday. No work shall be permitted on Sundays.

v. Sanitary pipes with less than 4 feet or more than 25 feet of cover shall be constructed of ductile iron piping (Class 50, minimum) and encased in polywrap.

w. All excavations more than 20 feet deep must be protected by a system designed by a registered professional engineer.

x. Contractor shall maintain 2' minimum clearance between existing utilities and new foundations and underground facilities. In areas where foundations and underground facilities are proposed adjacent to existing utilities, the contractor shall pot hole by vacuum excavation or hand excavation to locate the existing utility to verify minimum clearance requirement.

y. Fences shall be installed a minimum of 5 feet from any water or sanitary mains when running parallel with them. Where fences are installed crossing water or sanitary mains, the posts shall be located to have the main between them.

z. All brass components shall be certified to be lead free in compliance with NSF 61 and NSF 372 and identified with applicable markings.

DEPARTMENT OF PUBLIC UTILITIES – ELECTRIC GENERAL NOTES

The DPUE engineer for this project is Giovanni Hernandez. Please contact him at (630)-548-1212 with any questions regarding the electric service.

The developer SHALL supply the DPU-E engineer with catalog cuts for all CT/meter equipment (including but not limited to meter sockets, PT cabinet, CT cabinet, disconnect cabinet) and transformer pad/vault. The catalog cuts SHALL be approved by DPU-E prior to purchasing. The CT/meter cabinet SHALL be top fed. CT/meter equipment are long lead time items and DPU-E shall not be held responsible for delays resulting from non-compliant CT/meter equipment. Please provide name and contact information for Electrical Contractor for this project.

DPUE will provide, install, and maintain the transformers, all primary (15kV) cable and conduit, and the meters and instrument transformers. DPUE will also make the final connections in the transformers once the inspection is complete, and the building is ready to be energized. The developer is responsible for providing, installing, and maintaining the transformer pad/vault, all service lateral (480V) cable and conduit, the service entrance equipment including the CT/meter cabinet and all banked meter sockets.

The developer SHALL coordinate site construction with DPU-E to allow electric facilities to be installed prior paving and curbing. DPU-E requires 30 working days advance written notice prior to pavement installation to allow for the installation of electric facilities. Grade elevation must be within 4" of final grading before electric facilities can be installed.

Electric facilities SHALL be installed pursuant to Section 8-1C-3 of the City of Naperville Municipal Code, which requires a construction fee payment for installation of electric facilities.

At all times, the Customer shall be solely responsible for maintaining a suitable approach to the meter location, with no obstructions within four (4') feet of the front and two (2') feet of the sides of the Meter. Per NAPERVILLE SERVICE RULES AND POLICIES 22.2.F.

Clearance to transformer pad SHALL be 5' from all sides, 10' from front, and the area above must be completely clear of obstruction. No trees, shrubs, or other obstacles will be allowed within this area. Transformer pad SHALL maintain minimum clearance of 20' from egress points. Per DPUE specifications C10-2130 AND C30-0016.

DPU-E requires a minimum 5' of separation between its electric facilities and any fire hydrants storm drains, storm sewers, water mains, gas mains, etc. that run parallel to its facilities.

To have an existing service disconnected call the City Dispatch office at 630-420-6187. Please allow at least 24 hours notice. Meters and meter seals are to be removed only by DPU-E personnel. The location and type of new or replacement meter-related equipment must be pre-approved in writing by DPU-E. An electric service must be inspected by the Development Services Team electrical inspector prior to connection.

Label all meter sockets with the complete address in 1" letters using permanent stickers. In multiple meter banks, the complete address may be on the disconnect switch and the suite numbers on the meter sockets. The electrical service equipment will not pass inspection without appropriate address labeling.

Approval of metering equipment by DPU-E does not remove your responsibility to comply with the latest version of the National Electrical Code as adopted by the City of Naperville. Determination of compliance with the National Electrical Code will be made by the Transportation, Engineering and Development department.

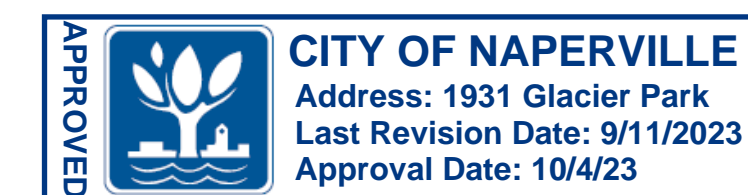
A customer's grounding conductor shall not be connected to DPU-E distribution equipment.

DPU-E will install and energize all meters in a multiple meter bank at one time, provided all meter sockets pass inspection. In the event of an incomplete installation, only the inspected and approved equipment shall be energized and a meter installed. Individual tenant permits will be required for installation of the other meters in the meter bank.

Due to supply chain issues DPU-E is experiencing long lead times (+400 days) on transformers. Please take this into consideration when planning construction.

The transformer must be shown on the site plan and should be located between 8' and 50' from commercial buildings. Meters, instrumental transformers, and main disconnect shall be located within 50' of the transformer and shall be installed on the exterior of the building. If the transformer will be located at a distance greater than 50', then the metering cabinet and main disconnect must be free standing and located between 10' and 15' of the transformer. The instrument transformers and main disconnect may be installed inside the building if the service entrance capacity is 1200 amps or greater. Meters shall be installed on the building exterior.

The developer is responsible for the construction and installation of a transformer pad and vault. The DPU-E engineer must be informed prior to the installation of the vault. A main disconnect or circuit breaker is required for DPU-E access in case of a need for service or in an emergency. DPU-E shall make the final connections of the customer's service to the transformer terminals. A minimum of eight feet of additional conductor length must be left on the customer's service cables.



R E V I S I O N S			
No.	DATE	DESCRIPTION	BY
0	6-7-2023	PLAN SET SUBMITTAL	ECH
1	8-11-2023	REVISED PER CITY OF NAPERVILLE REVIEW	ECH
2	9-11-2023	REVISED TRANSFORMER LOCATION	DJZ

DOCUMENTATION:

PROJECT No.: 20230186

DATE: 3-11-2023

FIELD BOOK: b:28-43 p:45-46

DRAWN BY: ech

CHECKED BY: DJZ



**Ruettiger, Tonelli & Associates, Inc.**  
 Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettigertonelli.com

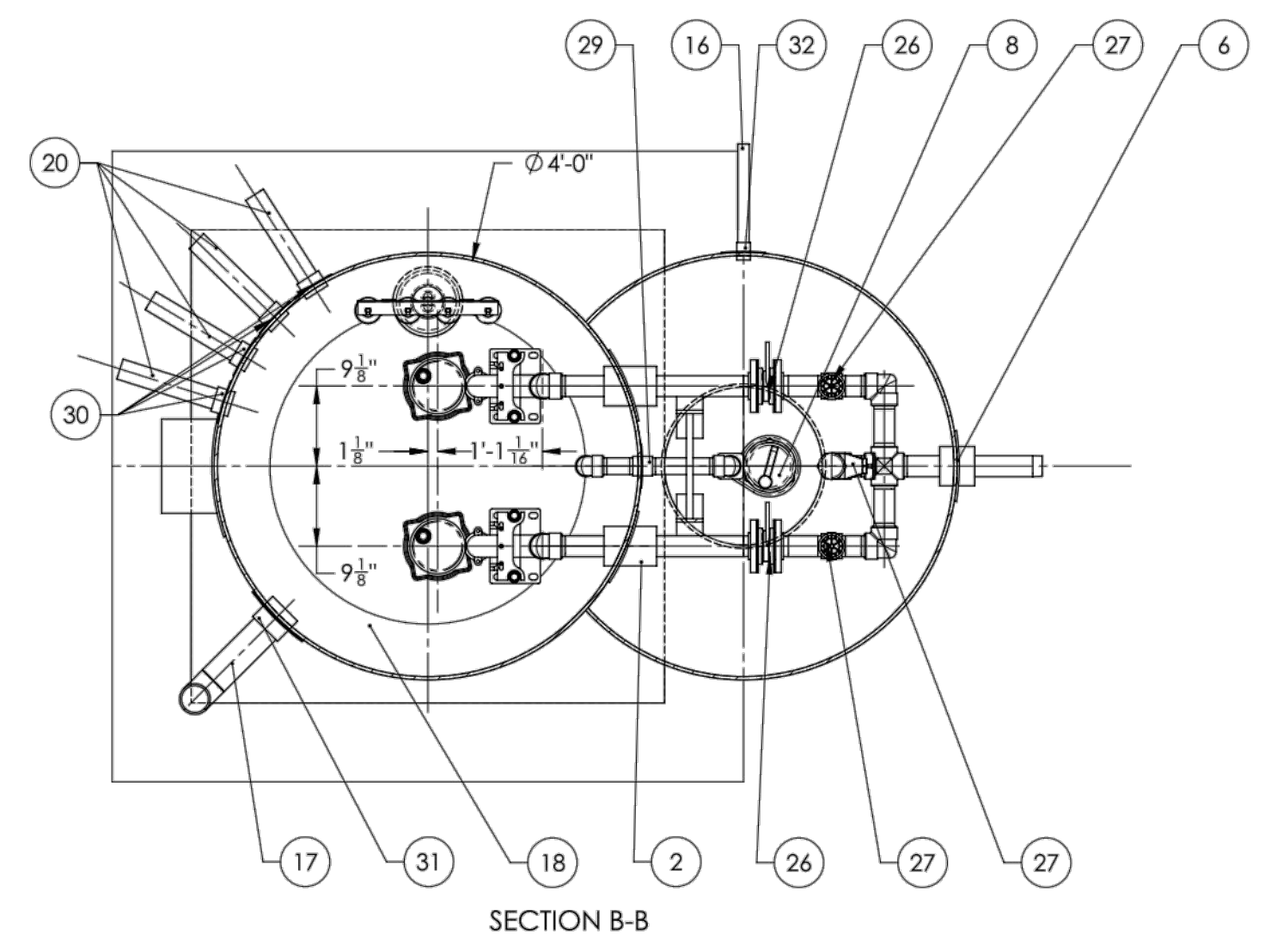
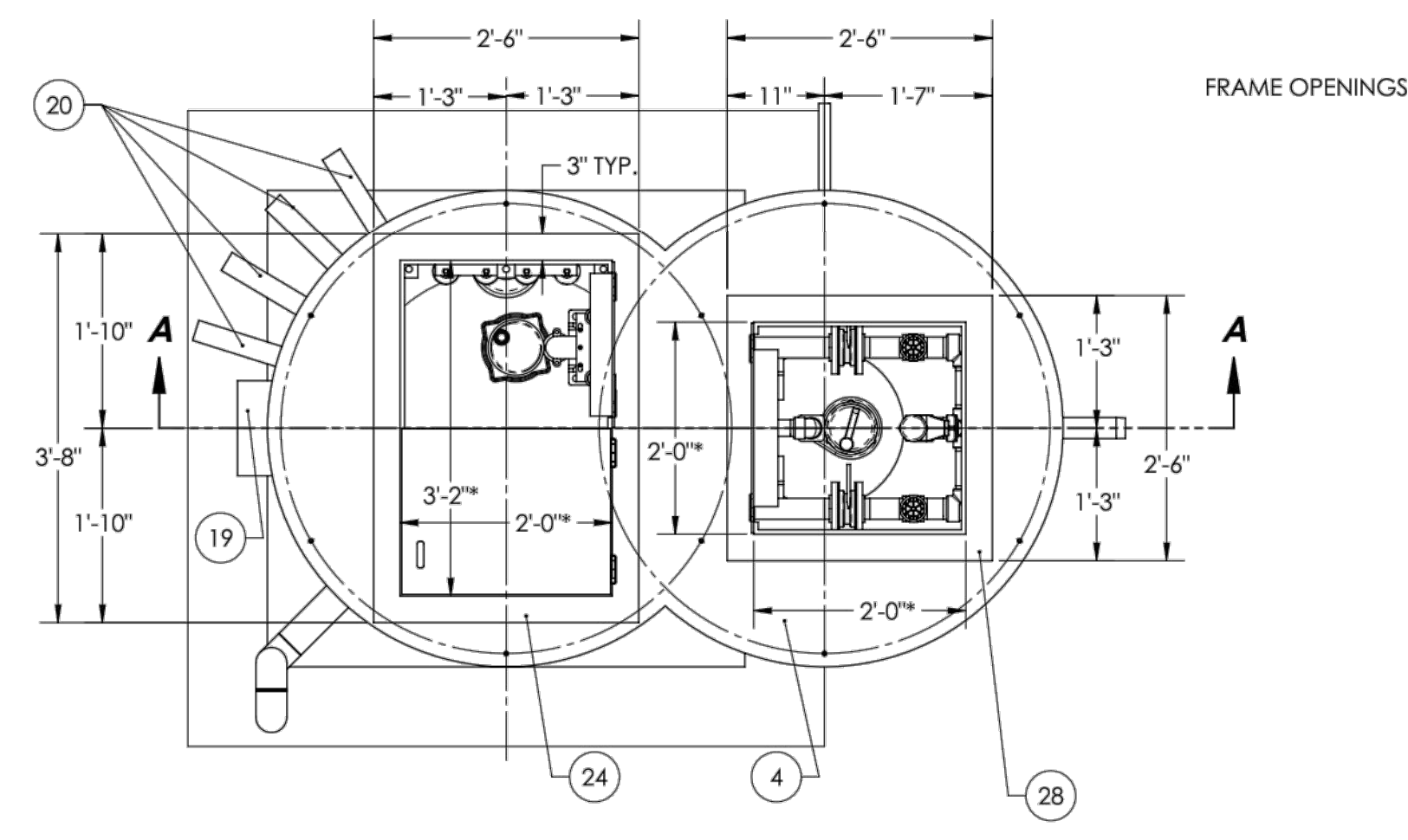
PROJECT TITLE:  
**SCOOTER'S COFFEE DRIVE-THRU**  
**1931 GLAICER PARK**  
**NAPERVILLE, ILLINOIS**

DRAWING TITLE:  
**CONSTRUCTION NOTES**  
**AND DETAILS**

DRAWING No.  
**323-0186-C1**

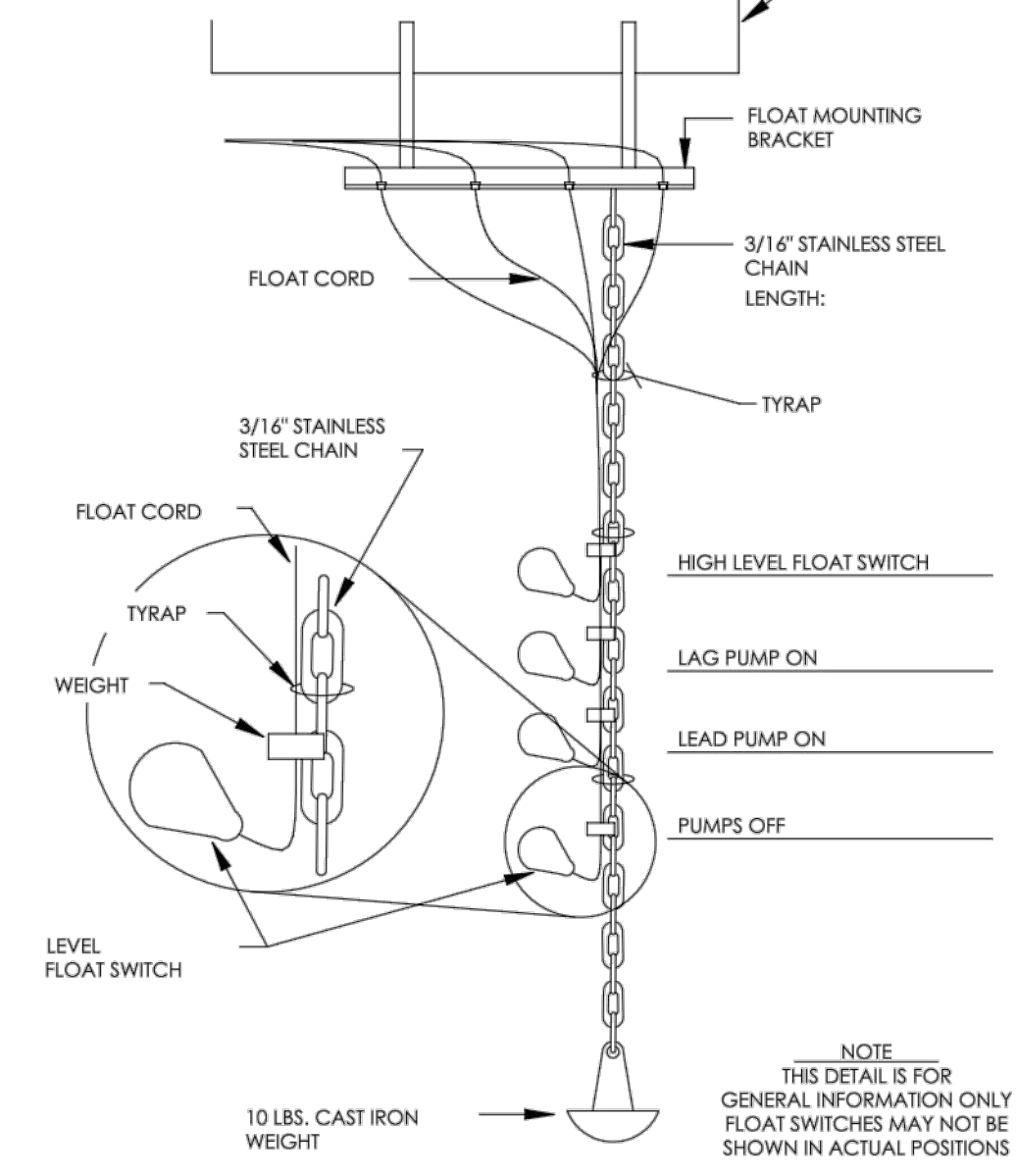
SCALE:  
**AS NOTED**

**SHEET C9.00**

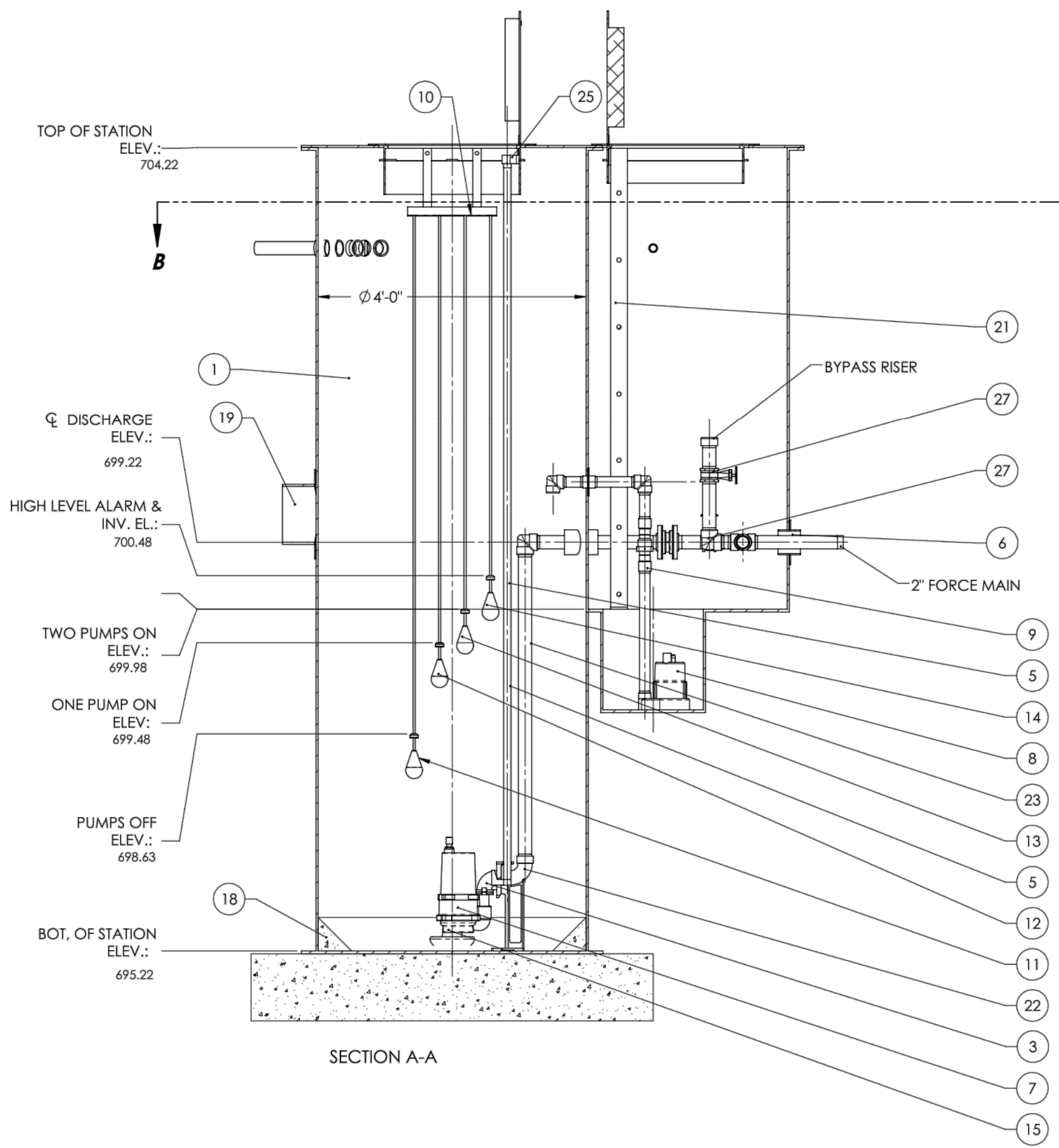


- NOTES:**
- THIS DRAWING IS PRELIMINARY LAYOUT ONLY. NOT FOR CONSTRUCTION. CONSTRUCTION DRAWINGS WILL BE FORWARDED UPON RECEIPT OF APPROVED SUBMITTALS.
  - SOME ITEMS NOT SHOWN FOR CLARITY.
  - CONTRACTOR/ENGINEER TO VERIFY SUCTION & DISCHARGE CONNECTION ORIENTATION.
  - ADEQUATE LIFTING POINTS TO BE PROVIDED.
  - CONTRACTOR TO FILL INLET HUB WITH GROUT AFTER INSTALLING FIELD PIPING.
  - ALL COMPRESSION COUPLINGS, EPC'S & FCA'S, TO BE RESTRAINED WITH A MINIMUM OF 2 CONTROL RODS WHEN REQUIRED.
  - LIFT STATION TO BE INSTALLED BY AN EXPERIENCED AND QUALIFIED CONTRACTOR.
  - ALL CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
  - CONTRACTOR AND/OR ENGINEER TO VERIFY ALL DIMENSIONS, ELEVATIONS, PIPING LAYOUT, AND ORIENTATION OF INLET (S), DISCHARGE AND CONDUIT (S).
  - ELECTRICAL COMPONENTS IN THE WET WELL SHALL BE RATED FOR CLASS I, DIV. 1, GROUP C & D LOCATIONS.
  - CONDUITS ARE AS FOLLOWS: (1) 2" FOR SENSOR CABELS, (1) 2" FOR LEVEL SWITCHES, (1) 2" FOR EACH PUMP POWER CORD & (1) 1" FOR VALVE VAULT SUMP PUMP POWER.
  - CONTRACTOR TO ORDER CONTROL AND POWER CORDS OF SUFFICIENT LENGTH TO REACH CONTROL PANEL FROM POINT OF ORIGIN ON PUMPS **WITHOUT SPLICING**.

WHEN CHANGING FLOAT LEVELS, PULL CHAIN, ANCHOR, AND FLOATS OUT OF WET WELL. CUT NECESSARY TYRAPS AND READJUST THE LEVEL OF THE FLOAT. WHEN PROPER LEVEL IS ACHIEVED, RE-FASTEN FLOAT CORD TO CHAIN WITH NEW TYRAPS. PLACE ENTIRE UNIT BACK INTO WET WELL.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FIBERGLASS WET WELL & VALVE VAULT	4'-0" DIA. x 9'-0" DEEP	1
2	LINK SEAL SLEEVE FOR 2" SCHED. 40		2
3	BERS SEALING FLANGE ASSEMBLY	2" SEALING FLANGE	2
4	LIFT STATION COVER	3/8" THK. STL. PLT.	1
5	1" GUIDE RAIL	SCHED. 40 STAINLESS STEEL PIPE	4
6	LINK SEAL SLEEVE FOR 2" SCHED. 40 STATION DISCHARGE		1
7	HPGF300	SEWAGE GRINDER PUMP	2
8	SUMP PUMP		1
9	1.50" CHECK VALVE		1
10	FLOAT MOUNTING BRACKET	STAINLESS STEEL TO BE SHIPPED LOOSE - CONTRACTOR TO INSTALL IN FIELD	1
11	FLOAT: OFF LEVEL	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
12	FLOAT: ONE PUMP ON	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
13	FLOAT: TWO PUMPS ON	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
14	FLOAT: ALARM LEVEL	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
15	ANCHOR	10lbs CAST IRON, WITH STAINLESS STEEL CHAIN FOR LEVEL CONTROL MOUNTING	1
16	1 RIGID CONDUIT	BY OTHERS	1
17	3" SCHED. 80 PVC VENT PIPING w/ BUG SCREENING	BY OTHERS	1
18	CONCRETE FILLET - BY OTHERS	SLOPE 1:1	1
19	INLET HUB FOR 4" PVC PIPING	SUPPLIED LOOSE, CONTRACTOR TO LOCATE & INSTALL IN FIELD	1
20	2" CONDUIT	BY OTHERS	4
21	LADDER	ALUMINUM LADDER	1
22	CONERY BERS 0200 BASE ELBOW		2
23	2" RISER	ANSI CLASS 150 FLANGES, BLACK STEEL PIPE	2
24	APD300-24x38	DUPLEX ALUMINUM ACCESS HATCH	1
25	UPPER GUIDE RAIL SUPPORT		2
26	2" WAFER CHECK VALVE		2
27	2" PLUG VALVE		3
28	APS300-24x24	ALUMINUM ACCESS HATCH	1
29	1.5" COUPLING - 48" ID	NPT COUPLING	1
30	2" COUPLING - 48" ID	NPT COUPLING	4
31	3" COUPLING - 48" ID		1
32	1" COUPLING - 48" ID	CONDUIT COUPLINGS	1



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DATE	BY	REVISION	DATE	BY	REVISION
8-22-23	BY	Elevations Revised per 8-11-23 Plans			

SCALE: 1:16  
 DRN. BY: K.G  
 DATE: 4/23/23  
 APP. BY:

**METROPOLITAN INDUSTRIES, INC.**  
 37 FORESTWOOD DR. ROMEOVILLE, ILLINOIS 60446  
 (815)886-9200 FAX (815)886-4573  
 PUMPS - CONTROLS - SYSTEMS

TITLE: **DUPLEX METRORAIL FIBERGLASS GRINDER LIFT STATION**

PROJECT: **SANITARY LIFT STATION  
 Scotters Coffee  
 Naperville, IL.**

SHEET 1 OF 1  
 DRAWING INDEX / JOB NO.  
 6004633345

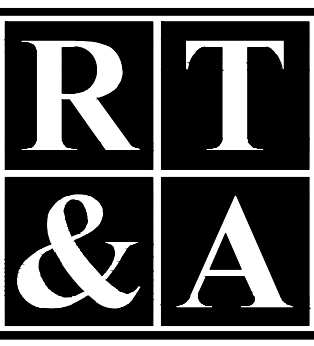
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**CITY OF NAPERVILLE**  
 Address: 1931 Glacier Park  
 Last Revision Date: 9/11/2023  
 Approval Date: 10/4/23

**Call Before You Dig**  
**JULIE**  
 ILLINOIS  
 800-848-8888  
 48 Hours (2 Working Days) BEFORE YOU DIG.  
 Include the following:  
 County, City/Township, Section & 1/4 Section No.

REVISIONS							
No.	DATE	DESCRIPTION	BY	No.	DATE	DESCRIPTION	BY
0	6-7-2023	PLAN SET SUBMITTAL	ECH				
1	8-11-2023	REVISED PER CITY OF NAPERVILLE REVIEW	ECH				
2	9-11-2023	REVISED TRANSFORMER LOCATION	DJZ				

DOCUMENTATION:  
 PROJECT No.: 20230186  
 DATE: 3-11-2023  
 FIELD BOOK: b:28-43 p:45-46  
 DRAWN BY: ech  
 CHECKED BY: DJZ



**Ruettiger, Tonelli & Associates, Inc.**  
 Surveyors • Engineers • Planners • Landscape Architects • G.I.S. Consultants  
 129 CAPISTA DRIVE - SHOREWOOD, ILLINOIS 60404  
 PH. (815) 744-6600 FAX (815) 744-0101  
 website: www.ruettigertonelli.com

PROJECT TITLE:  
**SCOOTER'S COFFEE DRIVE-THRU  
 1931 GLAICER PARK  
 NAPERVILLE, ILLINOIS**

DRAWING TITLE:  
**CONSTRUCTION NOTES  
 AND DETAILS**

DRAWING No.  
 323-0186-C1  
 SCALE:  
 AS NOTED  
 SHEET C-10.00