

# FINAL ENGINEERING PLANS

## FOR

# 35 FORESTWOOD DRIVE - ROMEOVILLE

## ROMEOVILLE, ILLINOIS

### PROJECT TEAM

#### OWNER/DEVELOPER

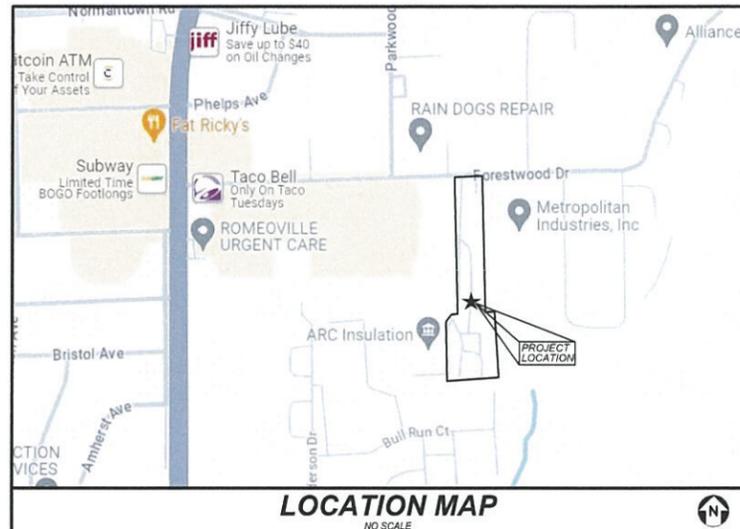
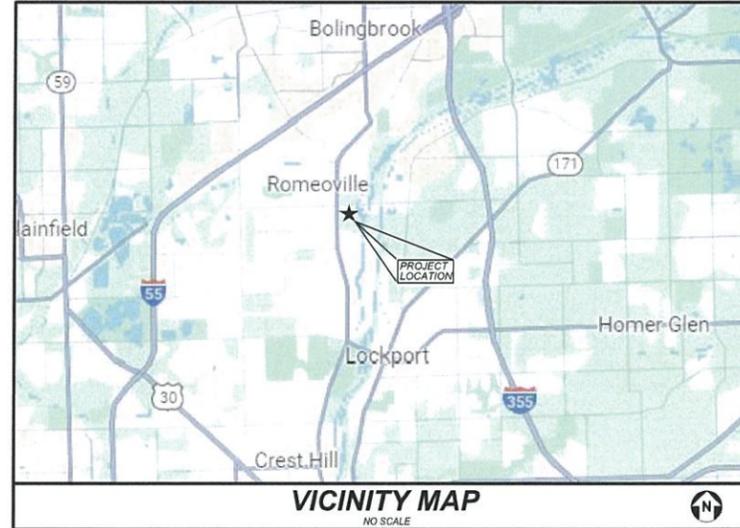
LDM Illinois LLC Series 2  
16 W 020 79th Street  
Burr Ridge, Illinois 60527  
708 526 2135  
Contact: Vic Dodevski

#### ENGINEER

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7325 Janes Avenue  
Woodridge, Illinois 60517  
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#### VILLAGE CONTACT

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#### SUPPORTING DOCUMENTS

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### BENCHMARKS

SOURCE: BENCHMARKS ESTABLISH VIA TRIMBLE VRS NETWORK.  
DATUM IS NAVD88

SITE:  
STATION DESIGNATION: SBM #1  
ESTABLISHED BY: V3  
DATE: 09-22-22

ELEVATION: 604.06 (MEASURED)  
DATUM: NAVD88  
DESCRIPTION: NORTHWEST BOLT ON FIRE HYDRANT ON THE NORTH SIDE OF FORESTWOOD DRIVE, ACROSS FOR THE NORTHEAST CORNER OF SURVEYED PROPERTY.

STATION DESIGNATION: SBM #2  
ESTABLISHED BY: V3  
DATE: 09-22-22

ELEVATION: 607.30 (MEASURED)  
DATUM: NAVD88  
DESCRIPTION: WEST-NORTHWEST BOLT ON FIRE HYDRANT ON THE WEST SIDE OF FORESTWOOD COURT, SOUTH OF THE ENTRANCE TO "RILCO OF CHICAGOLAND"

THE ELEVATIONS ABOVE WERE KNOWN TO BE ACCURATE AT THE TIME THEY WERE ESTABLISHED. V3 DOES NOT CERTIFY TO THE ACCURACY THEREAFTER, NOR ASSUMES RESPONSIBILITY FOR THE MIS-USE OR MIS-INTERPRETATION OF THE INFORMATION SHOWN HEREON.

IT IS ADVISED THAT ALL OF THE ABOVE ELEVATIONS BE CHECKED BETWEEN EACH OTHER AND VERIFY A MINIMUM OF 3 SURROUNDING UTILITY RIM ELEVATIONS AND ANY ADJACENT BUILDING FINISHED FLOOR OR TOP OF FOUNDATION ELEVATIONS SHOWN HEREON PRIOR TO USE OR COMMENCEMENT OF ANY CONSTRUCTION OR OTHER WORK.

PERSONS USING THIS INFORMATION ARE TO CONTACT V3 IMMEDIATELY WITH ANY DISCREPANCIES FOUND PRIOR TO THE START OF ANY WORK.

"I, hereby certify that adequate storm water storage and drainage capacity has been provided for this development, such that surface water from the development will not be diverted onto and cause damage to adjacent property for storms up to and including the one hundred (100) year event, and that the design plans are in compliance with all applicable State, County, and Village ordinances."



Call 48 hours before you dig

Joint Utility Locating Information for Excavators

### PROFESSIONAL ENGINEER'S CERTIFICATION

I, STEVE KRANENBORG, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THE CIVIL ENGINEERING PLANS WERE PREPARED ON BEHALF OF LDD PARKING LLC BY V3 COMPANIES, LTD. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 30th DAY OF May, A.D., 2025.

*Steve Kranenborg*  
ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-068598  
MY LICENSE EXPIRES ON NOVEMBER 30, 2025



ILLINOIS LICENSED DESIGN FIRM NO. 184-000902

TITLE SHEET

35 FORESTWOOD DRIVE - ROMEOVILLE

ROMEOVILLE

ILLINOIS

7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com



DRAWING NO.

C0.0

REVISIONS

NO.	DATE	DESCRIPTION
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

PROJECT NO. 220929	ORIGINAL ISSUE DATE: 07-26-2024
PROJECT MANAGER: SKH	DESIGNED BY: KC
DRAWN BY: NFS	

# GENERAL NOTES

1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY:

V3 COMPANIES, LTD.  
7325 JAMES AVENUE  
WOODRIDGE, IL 60517

COPIES OF THE SURVEY ARE AVAILABLE FROM THE SURVEYOR. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

2. ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.

3. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL AND STARTING WORK.

4. ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.

5. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREES TO HOLD HARMLESS V3 COMPANIES LTD., THE MUNICIPALITY, THEIR EMPLOYEES AND AGENTS AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE OWNER OF THE ROADWAY.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

8. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF:

- a. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY IDOT, LATEST EDITION.
- b. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," LATEST EDITION.
- c. "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE IEPA, LATEST EDITION.
- d. THE LATEST EDITIONS OF THE MUNICIPAL CODE AND STANDARDS OF THE VILLAGE OF ROMEOVILLE.
- e. THE NATIONAL ELECTRIC CODE.
- f. THE ILLINOIS ACCESSIBILITY CODE.
- g. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS AS PUBLISHED BY THE IEPA. TESTING OF SOILS BEING EXPORTED FROM THE SITE AND APPROPRIATE DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITE WORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

9. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK AND FOR ANY NEW CONSTRUCTION REQUIRING INSPECTION.

10. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION AND SHALL BE PROTECTED PER IDOT STANDARDS. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES IDENTIFIED TO REMAIN SHALL BE PROTECTED FROM DAMAGE INCLUDING TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.

11. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT ACCUMULATION OF MUD OR SOIL ON PUBLIC THOROUGHFARES. AT THE END OF EACH DAY AND AS OFTEN AS OTHERWISE NECESSARY THE CONTRACTOR SHALL CLEAN UP ALL MUD OR SOIL WHICH HAS BEEN TRACKED ONTO PUBLIC STREETS AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.

12. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS/HER OPERATIONS ABUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY IN ACCORDANCE WITH THE VILLAGE OF ROMEOVILLE MUNICIPAL CODE AND IDOT REQUIREMENTS.

13. NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND OR AFTER 3:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.

14. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.

15. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF THE BASE CONTRACT.

16. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.

17. FOR REGULATED UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS, "J.U.L.I.E." AT 1-800-852-0123. LOCAL GOVERNMENT AGENCIES SHOULD BE CONTACTED BY THE CONTRACTOR FOR LOCATION OF ALL UNREGULATED UTILITY LOCATIONS. CALL FOR LOCATES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.

18. BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.

19. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.

21. ALL CURB RADIUS REFER TO BACK OF CURB.

22. ANY AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND SHALL BE INCIDENTAL TO THE CONTRACT.

23. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE VILLAGE OF ROMEOVILLE MUNICIPAL OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.

24. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.

25. CAD FILES ARE AVAILABLE FOR CONSTRUCTION LAYOUT UPON REQUEST.

26. BACKFILL SHALL BE PLACED NEXT TO THE CURB AS SOON AS PERMISSIBLE AFTER CONSTRUCTION TO PREVENT SCOURING AND UNDERCUTTING BY STORM WATER RUNOFF.

27. BUTT JOINTS SHALL BE PROVIDED WHEREVER NEW PAVEMENT ABUTS EXISTING PAVEMENT. ALL BUTT JOINTS SHALL BE CONSTRUCTED BY MILLING AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE BITUMINOUS SURFACE COURSE.

28. WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO CONSTRUCTION, THE DRAINAGE ROUTE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. AT THE END OF THE SAME WORK DAY, POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

29. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.

30. FINAL ADJUSTMENT OF FIRE HYDRANTS, VALVE VAULTS AND MANHOLES TO FINISHED GRADE ARE INCIDENTAL TO THEIR COST.

31. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT ARE TO BE ADJUSTED OR RECONSTRUCTED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION. ADJUSTMENTS OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

32. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND TO THE SATISFACTION OF THE UTILITY OWNER.

33. PROVIDE TRENCH BACKFILL IN ACCORDANCE WITH THE DETAILS OF THE PLANS FOR ALL UTILITY LINES (OR AS OTHERWISE NOTED ON PLANS). BACKFILL SHALL BE PLACED AND COMPACTED PER THE VILLAGE OF ROMEOVILLE AND IDOT SPECIFICATIONS. COST OF BACKFILL IS TO BE CONSIDERED INCIDENTAL TO THE UTILITY WORK.

34. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

35. PRIOR TO DEMOBILIZATION, ALL WORK SHALL BE CLEANED AND INSPECTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

36. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND IRRIGATION SERVICES. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

37. BAND-SEAL CONNECTORS OR EQUIVALENT SHALL BE USED TO JOIN PIPES OF DISSIMILAR MATERIAL.

38. CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL CONSTRUCTION IN CONFORMANCE WITH ALL MUNICIPAL AND CLIENT REQUIREMENTS FOR USE IN PREPARING RECORD DRAWINGS. NOTE THAT ROMEOVILLE REQUIRES WATERMAIN BENDS AND OTHER FITTINGS BE LOCATED AND INCLUDED ON THE RECORD DRAWINGS.

39. THE SUBCONTRACTOR SHALL INSTALL A 2"x4"x6" POST ADJACENT TO THE TERMINUS OF UTILITY MAINS AND SERVICE LINES. POSTS SHALL BE MARKED IN ACCORDANCE WITH THE VILLAGE STANDARDS.

40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION. ANY DEWATERING REQUIRED SHALL BE INCIDENTAL TO THE CONTRACT.

41. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS REQUIRED IN ORDER TO INSTALL THE PROPOSED IMPROVEMENTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT. ANY ADDITIONAL SOILS DATA NEEDED TO CONFIRM THE CONTRACTOR'S OPINIONS OF THE SUBSOIL CONDITIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN THE OWNER'S WRITTEN AUTHORIZATION TO ACCESS THE SITE TO CONDUCT A SUPPLEMENTAL SOILS INVESTIGATION.

42. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY AS DETERMINED BY THE ENGINEER. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE SUBCONTRACTOR AND SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. ALL FIELD TILE REPAIRS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

43. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

# VILLAGE OF ROMEOVILLE'S FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER REQUIREMENTS:

## FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER

BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". SPECIFICALLY, ALL PIPELINES CONSTRUCTION OF FLEXIBLE MATERIALS SHALL BE SUBJECT TO AIR EXFILTRATION TESTS, TELEVISION TEST, AND DEFLECTION TEST. THE DEFLECTION TEST SHALL BE PERFORMED NO SOONER THAN THIRTY (30) DAYS OF THE BACKFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPE EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE-LAID OR REPLACED BY THE DEVELOPER. DEFLECTION TESTING SHALL BE ACCOMPLISHED BY PULLING A MANDREL, SPHERE, OR PIN-TYPE "GO/NO-GO" DEVICE, WITH A DIAMETER EQUAL TO NINETY-FIVE (95) PERCENT OF THE UNDERFLECTED INSIDE DIAMETER OF THE FLEXIBLE PIPE, THROUGH THE PIPELINE. IN ADDITION, ALL SANITARY SEWER HAVING A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVIEWED. COPIES OF ALL VIDEO TAPES MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE.

## FINAL TESTING OF SANITARY SEWER MANHOLES

VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY-TWO (72) INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE FRAME AND ADJUSTING RINGS AND CHIMNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING. VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE PLACED ON THE MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY. THE VACUUM DROP SHALL NOT EXCEED THE REQUIREMENTS SHOWN IN TABLE 1 OF ASTM C 1244-02. IF TESTING FAILS, DEVELOPER SHALL SEAL ALL LEAKS AND RETEST UNTIL ACCEPTABLE. THE TESTING SHALL BE COMPLETED PRIOR TO BACKFILLING (WHENEVER POSSIBLE) SO THAT ANY LEAKS CAN BE FOUND AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN OPPORTUNITY TO TIGHTEN.

## FLOW MONITORING PRIOR TO ACCEPTANCE

THE DEVELOPER WILL BE REQUIRED TO MONITOR THE FLOWRATE FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO MAJOR STORM EVENTS) TO IDENTIFY ANY EXCESSIVE INFLOW/INFILTRATIONS OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE PRIOR TO ACCEPTANCE OF THE PUBLIC IMPROVEMENTS.

## Village of Romeoville - Minimum chlorination standards:

- a. Gas chlorine must be used for disinfection.
- b. The chlorination contractor must call 815-886-1870 a minimum of 24-hours in advance to schedule chlorination.
- c. Only Village of Romeoville employees shall operate water system valves and turn on/off sampling whips while samples are being collected.
- d. All chlorination and safety equipment must meet or exceed the standards and recommendations set by The Chlorine Institute, Inc.
- e. The chlorinator must be a licensed plumber or certified Illinois water operator with a minimum of 5 years experience working with chlorine disinfection of water supply lines.
- f. The chlorination contractor must have two people present to chlorinate. One to monitor the cylinder and one to monitor in the field.
- g. The chlorination contractor must be bonded and insured, and have proof of both on file with the Village.
- h. The chlorination contractor must have updated 24-hour emergency phone numbers on file with the Village.
- i. The chlorination contractor must comply with state and federal regulations regarding transportation and handling of chlorine cylinders:
  - Shipping and emergency papers for every job location
  - Proof of insurance for hauling and handling chlorine gas
  - Commercial driver's license with Hazmat endorsement and medical card
  - Copy of Emergency Response Guidebook in vehicle
  - Hazmat certificate of registration
  - Hazardous materials placard displayed on vehicle
  - Cylinder strapped upright in truck
- j. Under no circumstances will chlorine contractors be allowed to apply heat to the chlorine cylinder (i.e. hot baths, propane torches, etc.). While the cylinder is being used it must be in a vertical position, as well as being affixed to a solid object.
- k. Prior to chlorination, the chlorination contractor must provide a detailed written chlorination and flushing plan to the Village for review and written approval.
- l. At any time, the Village or its authorized representative may ask for proof of any or all of the above information. Please contact the Village of Romeoville Public Works Department (815-886-1870) with any questions.

# LEGEND

EXISTING	PROPOSED	DESCRIPTION
		RIGHT-OF-WAY LINE
		PROPERTY LINE (EXTERIOR)
		LOT LINE (INTERIOR)
		EASEMENT LINE
		FENCE LINE
		CENTERLINE
		PROPERTY CORNER
		CONTOUR
		CURB & GUTTER
		DEPRESSED CURB & GUTTER
		REVERSE PITCHED CURB
		SPOT ELEVATION
		TOP OF CURB ELEVATION
		EDGE OF PAVEMENT ELEVATION
		UTILITY STUB
		SANITARY FORCE
		SANITARY SEWER MAIN
		STORM SEWER
		WATER MAIN
		GAS MAIN
		UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK
		BURIED CABLE-ELECTRIC
		BURIED CABLE-TELEPHONE
		ATLAS LOCATED UTILITY
		UTILITY STRUCTURE WITH CLOSED LID
		CURB INLET
		DRAINAGE STRUCTURE WITH OPEN LID
		FIRE HYDRANT
		VALVE IN VALVE BOX
		GATE VALVE IN VALVE VAULT
		POST INDICATOR VALVE
		THRUST BLOCK
		TREE
		TREE LINE
		CONCRETE HEADWALL
		SUBMERGED HEADWALL
		FLARED END SECTION (F.E.S.)
		GUY WIRES
		FLOOD LIGHT
		UTILITY POLE
		LIGHT STANDARD
		TRAFFIC SIGNAL POLE
		HAND HOLE
		SOIL BORING
		IRRIGATION HEADS
		SIGN
		TELEPHONE MANHOLE
		MONITORING WELL
		TELEPHONE PEDESTAL
		TRANSFORMER PAD
		UTILITY TO BE ABANDONED
		FEATURE TO BE REMOVED
		STORMWATER FLOW DIRECTION
		STORMWATER OVERFLOW ROUTE
		DITCH CHECK
		INLET FILTER BASKET
		RIP RAP
		BOLLARD
		SILT FENCE
		WATER MAIN PROTECTION
		UTILITY CROSSING LABEL
		GUARDRAIL
		RAILROAD TRACKS
		RETAINING WALL
		REVISION DELINEATION
		CONSTRUCTION LIMIT LINE
		TREE PROTECTION FENCE

# ABBREVIATIONS

A	ARC LENGTH
B-B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BLDG	BUILDING
BM	BENCHMARK
B/P	BOTTOM OF PIPE
B/V/V	BUTTERFLY VALVE IN VALVE VAULT
C & G	CURB AND GUTTER
CB	CATCH BASIN
CL	CENTERLINE
CL	CLOSED LID
CO	CLEAN OUT
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
DIWM	DUCTILE IRON WATER MAIN
DWG	DRAWING
E	EAST OR ELECTRIC OR EDGE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
F & CL	FRAME & CLOSED LID
F & G	FRAME & GRATE
F & OL	FRAME & OPEN LID
FES	FLARED END SECTION
F-F	FACE TO FACE OF CURB
FF	FINISHED FLOOR
F/G	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
G	GAS LINE
GWVB	GATE VALVE IN VALVE BOX
GV/V	GATE VALVE IN VALVE VAULT
HOC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HOR	HORIZONTAL
HP	HIGH POINT
H/WL	HIGH WATER LEVEL
IE	INVERT ELEVATION
IN	INLET
LF	LINE FEET
LP	LOW POINT OR LIGHT POLE
L	LEFT
ME	MATCH EXISTING
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
NIC	NOT IN CONTRACT / NOT INCLUDED
NWL	NORMAL WATER LEVEL
OC	ON CENTER
OL	OPEN LID
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SLOPE OR SOUTH
SAN	SANITARY
SF	SILTATION FENCE
SFM	SANITARY FORCE MAIN
SHT	SHEET
SHW	SUBMERGED HEADWALL
SMH	SANITARY MANHOLE
STA	STATION
ST	STORM STRUCTURE OR STORM SEWER
STMH	STORM MANHOLE
T	TANGENT LENGTH OR TELEPHONE
T/C	TOP OF CURB
T/P	TOP OF PIPE
T/W	TOP OF WALL
TY	TYPE
TYP	TYPICAL
UP	UTILITY POLE
VC	VERTICAL CURVE
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W	WEST
WM	WATER MAIN

GENERAL NOTES, LEGEND AND ABBREVIATIONS	ORIGINAL ISSUE DATE: 07-26-2024	REVISIONS
	PROJECT NO. 220929	NO. DATE
	PROJECT MANAGER: SAH	DESCRIPTION: REVISED PER VILLAGE COMMENTS
	DESIGNED BY: KC	COMMENTS: REVISED PER VILLAGE COMMENTS
DRAWN BY: NPS	ILLINOIS	
35 FORESTWOOD DRIVE - ROMEOVILLE		
ROMEOVILLE		
7325 James Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com		
DRAWING NO.		
<span style="font-size: 2em; font-weight: bold;">C1.0</span>		

# SPECIFICATIONS

## EARTHWORK

- THE GRADING OPERATIONS ARE TO BE INSPECTED BY A THIRD PARTY SOILS ENGINEER. THE CONTRACTOR'S REPRESENTATIVE MUST BE NOTIFIED PRIOR TO ANY UNSUITABLE SOIL REMOVAL AND MUST APPROVE, IN WRITING, ANY REMEDIATION. BOTH THE CONTRACTOR AND SOILS ENGINEER MUST BE PRESENT DURING REMEDIATION.
- THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISH GRADE. A MINIMUM OF 6 INCHES OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE ELEVATIONS ARE ACHIEVED. UNLESS OTHERWISE NOTED, AREAS IN DETENTION FACILITIES NOTED TO BE ESTABLISHED WITH NATIVE VEGETATION SHALL REQUIRE A MINIMUM OF 12 INCHES OF TOPSOIL. REFER TO PLANTING PLANS TO VERIFY TOPSOIL THICKNESS REQUIREMENTS.
- THE SURFACE VEGETATION, TOPSOIL, TRANSITIONAL MATERIAL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE STRUCTURAL FILL. IF THE UNDERLYING SUBGRADE IS FOUND TO BE UNSUITABLE FOR PROPER COMPACTION, CONTRACTOR TO CONSULT WITH SOILS ENGINEER PRIOR TO REMEDIATION.
- EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, BUILDING AND OTHER STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D1557 (MODIFIED PROCTOR METHOD), OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER, THE AUTHORITY HAVING JURISDICTION, AND THE CONTRACTOR.
- ALL PAVEMENT SUBGRADE SHALL MEET THE REQUIREMENTS DETERMINED BY THE SOILS ENGINEER AND DOCUMENTED IN THE GEOTECHNICAL REPORT. IF AREAS OF PAVEMENT SUBGRADE ARE ENCOUNTERED WHICH DO NOT MEET THESE REQUIREMENTS, SUBGRADE REPLACEMENT OR PAVEMENT DESIGN REVISIONS SHALL BE PROVIDED WHICH ARE ADEQUATE TO OBTAIN EQUIVALENT PAVEMENT STRENGTH AS DETERMINED BY THE ENGINEER, SOILS ENGINEER, AND THE AUTHORITY HAVING JURISDICTION.
- COMPLETED GRADING (FINISHED FINE GRADE) FOR PROPOSED PAVEMENT SUBGRADE AREAS, BUILDING PADS, AND OPEN SPACE AREAS SHALL BE WITHIN A 0.1' TOLERANCE OF DESIGN SUBGRADE.
- THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE SUBCONTRACTOR IN THE PRESENCE OF THE JURISDICTIONAL INSPECTOR, CONTRACTOR, AND SOILS ENGINEER.
- BORROW PIT LOCATION(S) SHALL BE APPROVED BY THE OWNER, ENGINEER, AND GEOTECHNICAL ENGINEER.

## SANITARY SEWER

- SANITARY SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
  - POLYVINYL CHLORIDE PLASTIC SEWER PIPE (PVC) CONFORMING TO ASTM D2211 WITH AN SDR OF 26, 21, OR 18, AS NOTED BELOW, WITH ELASTOMETRIC GASKET JOINTS CONFORMING TO ASTM D3139.
  - DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A21.51 (AWWA C161) WITH JOINTS CONFORMING TO ANSI 21-11 (AWWA C-111).
- PIPES MUST HAVE A MINIMUM COVER DEPTH OF 5 FEET.
- PVC PIPES WITH COVER OF LESS THAN 15 FEET SHALL BE SDR 26. WHEN BURIAL DEPTHS ARE 15-20 FEET, AN SDR OF 21 IS REQUIRED. WHEN BURIAL DEPTHS EXCEED 20 FEET, AN SDR OF 18 IS REQUIRED.
- MANHOLES SHALL BE PRECAST CONCRETE STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL SHEETS). LIDS SHALL BE IMPRINTED "SEWER".
- ALL SANITARY SEWER SHALL BE TESTED FOR LEAKAGE AND DEFLECTION IN ACCORDANCE WITH SECTION 31-1.12 AND 31-1.13 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
- ALL SANITARY MANHOLES SHALL BE TESTED FOR WATER TIGHTNESS IN ACCORDANCE WITH ASTM C969 OR ASTM C1244.
- ALL MANHOLES LOCATED IN AREAS SUBJECT TO INUNDATION MUST HAVE WATERPROOF, BOLT-DOWN FRAMES AND LIDS.
- CONTRACTOR SHALL VERIFY THAT THE TESTING METHODS DESIGNATED HEREIN ARE ACCEPTABLE TO LOCAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. IF THE LOCAL JURISDICTION HAS MORE STRINGENT TESTING REQUIREMENTS THE CONTRACTOR SHALL ADHERE TO THE MORE STRINGENT REQUIREMENTS. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.

## WATERMAIN DISTRIBUTION SYSTEM

- WATER MAIN SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIAL AS SPECIFIED ON THE PLANS:
  - DUCTILE IRON PIPE, CLASS 52 CONFORMING TO ANSI A21.51, AWWA C-151 WITH CEMENT LINING CONFORMING TO ANSI A21.4, AWWA C-104 AND PUSH-ON JOINTS CONFORMING TO ANSI A21.11, AWWA C-111. FITTINGS SHALL COMPLY WITH ANSI A21.10, AWWA C110. ALL DUCTILE IRON WATERMAINS SHALL BE WRAPPED IN V-BIO POLYETHYLENE USING ALTERNATE MODIFIED METHOD A: WET TRENCH CONDITIONS. A LAYER OF ARC-SPRAYED ZINC PER ISO 8179 IS REQUIRED ON EXTERIOR OF PIPE.
- MINIMUM COVER OVER WATER MAIN SHALL BE 5' - 0" FROM FINISHED GRADE TO TOP OF PIPE.
- VALVE VAULTS SHALL BE USED AT ALL VALVE LOCATIONS WHERE WATER MAIN IS 8" DIAMETER OR LARGER. VAULTS SHALL BE PRECAST CONCRETE STRUCTURES, WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL SHEETS). LIDS SHALL BE IMPRINTED "WATER".
  - NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.
  - MARK EACH PIECE PLAINLY WITH STRUCTURE NUMBER AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.
  - MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTION ARE APPROPRIATE FOR THE PIPE BEING LAID.
  - FOR THE PIPE CONNECTION AT MANHOLE, CUTOUTS SHALL BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE EQUAL TO KOR-N-SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.
  - JOINT SEALANT - FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN OR OXIDIZE UPON AGING. MATERIAL SHALL BE EQUAL TO TYLON SUPERSEAL AND SHALL MEET ASTM C 443 AND ASTM C 351 REQUIREMENTS.
  - THE FRAME FOR THE LID SHALL BE INSTALLED WHEN CONE SECTION IS CAST.
  - HEAT SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED BY CANUSA CPS, BIDCO EXTERNAL JOINT WRAP AS MANUFACTURED BY NPC, OR APPROVED EQUAL.
- ALL JOINTS SHALL BE RESTRAINED WITH MEGALUGS (EBAA IRON). THERE SHALL BE NO CONCRETE THRUST BLOCKS. REFER TO SHEET C6.3 FOR RESTRAINT LENGTH
- WATER MAIN FITTINGS (BENDS, ELBOWS, TEES, INCREASES, REDUCERS, ETC.) MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON THE CONSTRUCTION PLANS. THEY ARE TO BE CONSIDERED AS INCIDENTAL AND INCLUDED IN THE LINEAL FOOTAGE COST OF THE WATER MAIN.
- ALL WATER LINES ARE TO BE PRESSURE TESTED AND CHLORINATED PER THE REQUIREMENTS OF THE MUNICIPALITY AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
- PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BEEN DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGE WILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.
- A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
- ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.
- MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478.

## STORM SEWER

- STORM SEWERS SHALL BE CONSTRUCTED OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
  - REINFORCED CONCRETE PIPE (RCP) IN CONFORMANCE TO IDOT STANDARD SPECIFICATIONS FOR DETERMINATION OF PIPE CLASS, AND CONFORMING TO ASTM C76. ALL STORM SEWER JOINTS SHALL HAVE FLEXIBLE GASKET O-RINGS CONFORMING TO ASTM C-351, ASTM C-433, AND ASTM C-1619, UNLESS OTHERWISE NOTED.
  - POLYVINYL CHLORIDE PLASTIC SEWER PIPE (PVC) CONFORMING TO ASTM D3034 WITH ELASTOMETRIC GASKETED JOINTS CONFORMING TO ASTM D3212.
  - HIGH DENSITY POLYETHYLENE PIPE, HDPE, CONFORMING TO ASTM D3350 WITH ELASTOMETRIC JOINTS CONFORMING TO ASTM D3212.
  - DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A21.51 (AWWA C161) WITH JOINTS CONFORMING TO ANSI 21-11 (AWWA C-111).
- UNLESS INDICATED OTHERWISE, FRAME AND OPEN LID STORM STRUCTURES IN PAVEMENT SHALL BE NEENAH R-2502 TYPE D LID OR APPROVED EQUAL.
- FRAME AND CLOSED LID STORM STRUCTURES SHALL BE EAST JORDAN 1050Z1 EMBOSSED WITH "STORM" AND "VILLAGE OF ROMEOVILLE". ALL FRAME AND GRATES SHALL CONFORM TO LOCAL MUNICIPALITY REQUIREMENTS.
- STORM SEWER STRUCTURES SHALL BE PRECAST OF THE TYPE AND DIAMETER AS SPECIFIED IN THE PLANS WITH APPROPRIATE FRAME AND LIDS (SEE CONSTRUCTION DETAIL). LIDS SHALL BE IMPRINTED "STORM" AND "VILLAGE OF ROMEOVILLE".
- THE VILLAGE REQUIRES CONTRACTOR TO SUBMIT RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWERS.

## IEPA CROSSING REQUIREMENTS

- HORIZONTAL SEPARATION:**
  - WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICE CONNECTION.
    - LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;
    - THE WATERMAIN IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER, AND
    - THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
  - BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
- VERTICAL SEPARATION:**
  - A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OR ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
  - BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING REQUIREMENTS OF SECTION 653.111 WHEN:
    - IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN 9A) ABOVE; OR
    - THE WATERMAIN PASSES UNDER A SEWER DRAIN.
  - A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.
  - CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

## PAVING

- BASE COURSE SHALL BE AGGREGATE BASE COURSE, CONFORMING TO IDOT STANDARD SPECIFICATIONS (SEE PLANS FOR THICKNESS).
- SURFACE COURSE AND BINDER COURSE SHALL BE HOT-MIX ASPHALT (HMA) CONFORMING TO IDOT STANDARD SPECIFICATIONS (SEE PLANS FOR THICKNESS).
- CURB & GUTTER AND SIDEWALK SHALL BE CLASS SI PORTLAND CEMENT CONCRETE CONFORMING TO IDOT STANDARD SPECIFICATIONS.
- SUBGRADE SHALL BE FINISHED TO BE WITHIN 0.1 FEET OF DESIGN SUBGRADE ELEVATIONS BY THE EARTHWORK CONTRACTOR. FINE GRADING FOR PAVEMENTS AND SIDEWALKS SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR.
- AGGREGATE BASE COURSES SHALL BE PRIMED AT THE RATE OF 0.25 TO 0.50 GALLONS PER SQUARE YARD AND BRICK, CONCRETE, OR HMA BASES SHALL BE PRIMED AT THE RATE OF 0.05 TO 0.10

GALLONS PER SQUARE YARD WITH LIQUID ASPHALT CONFORMING TO THE IDOT STANDARD SPECIFICATIONS AND APPROPRIATE FOR PREVAILING WEATHER AND SITE CONDITIONS. PRIME COAT AND CLEANING THE EXISTING SURFACE SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

- PAVEMENT SHALL BE CONSTRUCTED ON A THOROUGHLY COMPACTED SUBGRADE MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. PRIOR TO PLACEMENT OF THE NEW PAVEMENT, THE SUBGRADE SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK (MINIMUM 20 TONS). PROOF ROLLING SHALL BE WITNESSED BY THE GEOTECHNICAL CONSULTANT.
- SIDEWALKS SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS. CONTRACTION JOINTS SHALL BE SET AT 5' CENTERS AND 1/2 INCH PREMOLDED FIBER EXPANSION JOINTS SHALL BE SET AT 50' CENTERS AND WHERE THE SIDEWALK MEETS THE CURB, A BUILDING, OR AT THE END OF EACH FOUR. ALL SIDEWALKS CONSIDERED TO BE ACCESSIBLE ROUTES AS DEFINED BY THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL BE SUBJECT TO ILLINOIS ACCESSIBILITY CODE (IAC) REQUIREMENTS, UNLESS OTHERWISE NOTED.
- TESTING OF THE SUBBASE, BASE COURSE, BINDER COURSE, SURFACE COURSE, AND CONCRETE WORK SHALL BE REQUIRED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE SPECIFIC REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. A QUALIFIED TESTING FIRM SHALL BE EMPLOYED TO PERFORM THE REQUIRED TESTS.
- ASPHALT JOINTS FOR BINDER AND SURFACE COURSES ARE TO BE STAGGERED.

PROJECT NO. 200829		ORIGINAL ISSUE DATE: 07-26-2024	
PROJECT MANAGER	NO. DATE	DESCRIPTION	NO. DATE
SAK	1 11-04-24	REVISED PER VILLAGE COMMENTS	
DESIGNED BY	2 05-30-25	REVISED PER VILLAGE COMMENTS	
KC			
DRAWN BY			
SPECIFICATIONS		ILLINOIS	
		35 FORESTWOOD DRIVE - ROMEOVILLE	
7325 James Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com			
DRAWING NO.			
C1.1			

FORESTWOOD DRIVE

LOT 6

LOT 5

FOR CONTINUATION SEE SHEET C2.2

**NOTES:**

1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY:

V3 COMPANIES, LTD.  
7325 JAMES AVENUE  
WOODRIDGE, IL 60517

COPIES OF THE SURVEY ARE AVAILABLE FROM THE SURVEYOR. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.

2. ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.

ORIGINAL ISSUE DATE: 07-26-2024		REVISIONS			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11-04-24	REVISED PER VILLAGE COMMENTS			
2	05-30-25	REVISED PER VILLAGE COMMENTS			

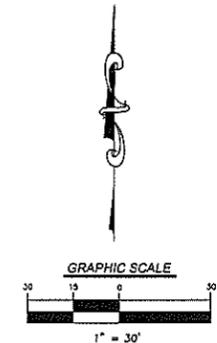
PROJECT NO. 220929  
PROJECT MANAGER SAK  
DESIGNED BY KC  
DRAWN BY NRS

**EXISTING CONDITIONS PLAN - NORTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
ROMEOVILLE ILLINOIS

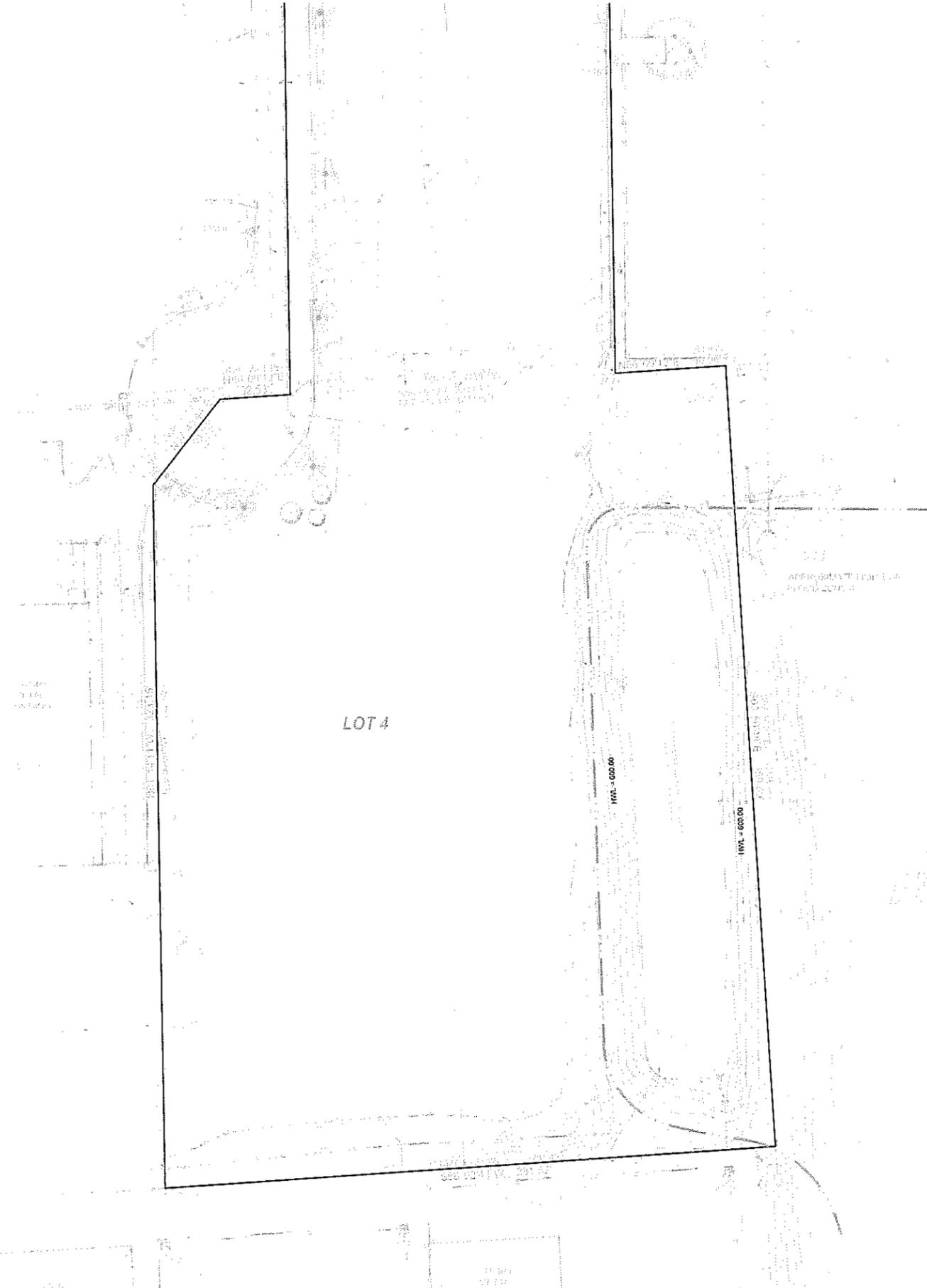
7325 James Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com



DRAWING NO.  
**C2.1**



FOR CONTINUATION SEE SHEET C2.1



**NOTES:**

- EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY:  
  
V3 COMPANIES, LTD.  
7325 JAMES AVENUE  
WOODRIDGE, IL 60517  
  
COPIES OF THE SURVEY ARE AVAILABLE FROM THE SURVEYOR. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.
- ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN.

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NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
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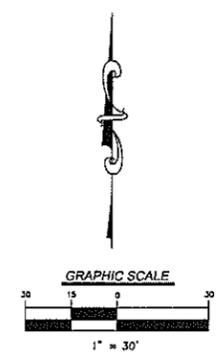
PROJECT NO. 220029  
 PROJECT MANAGER: SAK  
 DESIGNED BY: KC  
 DRAWN BY: NRS

**EXISTING CONDITIONS PLAN - SOUTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ROMEOVILLE ILLINOIS

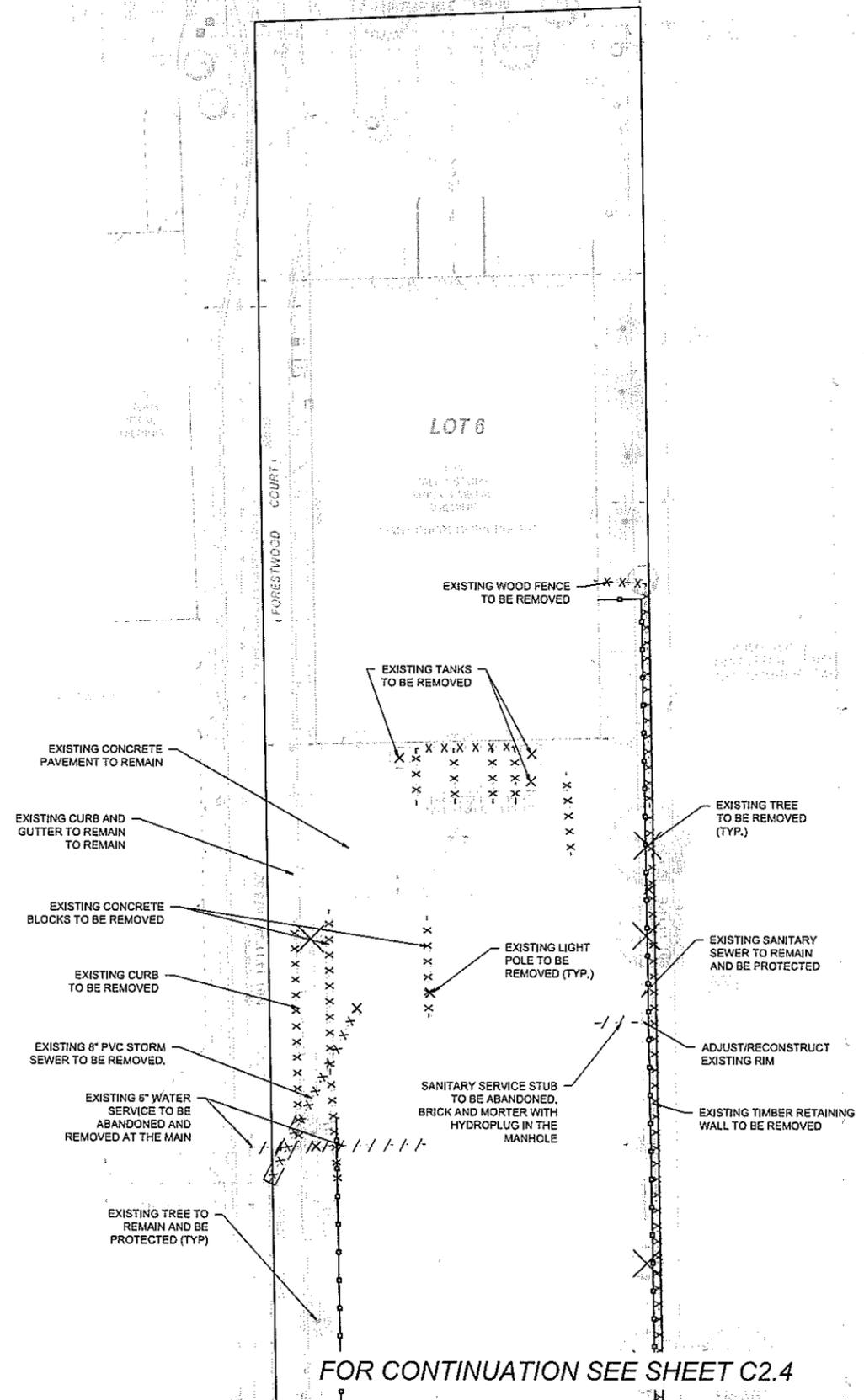
7325 James Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 www.v3co.com



DRAWING NO.  
**C2.2**



**FORESTWOOD DRIVE**

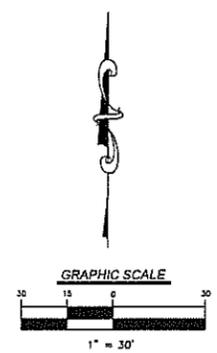


FOR CONTINUATION SEE SHEET C2.4

**DEMOLITION PLAN**

- THE EXTENT OF DEMOLITION WORK IS AS GENERALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. SPECIFIC DEMOLITION PROCESSES OR PROCEDURES FOR DEMOLITION AND STRUCTURAL CONSIDERATIONS ARE THE RESPONSIBILITY OF OTHERS. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, REMOVAL AND DISPOSAL OFFSITE OF THE FOLLOWING ITEMS:
  - ON-SITE PAVEMENT
  - UTILITIES
  - CONSTRUCTION DEBRIS
- ALL PAVEMENT TO BE REMOVED ADJACENT TO PAVEMENT THAT IS TO REMAIN SHALL BE SAWCUT FULL DEPTH AT THE EDGES PRIOR TO REMOVAL TO OBTAIN A "CLEAN" JOINT WHERE IT ABUTS NEW CURB OR PAVEMENT.
- CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
- STRUCTURES TO BE DEMOLISHED SHALL BE VACATED AND DISCONTINUED FROM USE PRIOR TO START OF WORK. OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF STRUCTURES TO BE DEMOLISHED. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED BY OWNER IN SO FAR AS PRACTICABLE. HOWEVER, VARIATIONS WITHIN THE STRUCTURES MAY OCCUR BY OWNER'S REMOVAL AND SALVAGE OPERATIONS PRIOR TO START OF DEMOLITION WORK.
- ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED AS WORK PROGRESSES AND AS APPROVED BY THE OWNER. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.
- CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF BUILDINGS, PAVEMENTS AND UTILITIES TO REMAIN FROM ANY DAMAGE AND SHALL BE RESPONSIBLE FOR REPAIRING THE SAME.
- EXISTING UTILITIES, WHICH DO NOT SOLELY SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL ARRANGE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS.
- EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS AND FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO HAVE THEIR TRENCHES BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL, AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY.
- CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES DURING CONSTRUCTION. UTILITY PROTECTION SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- REMOVAL, ABANDONMENT, AND RELOCATION OF EXISTING UTILITIES SHALL BE COMPLETED AS GENERALLY DEPICTED ON THESE PLANS. CONTRACTOR TO COORDINATE RELOCATIONS WITH THE UTILITY OWNER. CONTRACTOR SHALL MINIMIZE DISRUPTION OF SERVICE AND SHALL WORK WITH UTILITY OWNER TO MAINTAIN AN ACCEPTABLE LEVEL OF SERVICE.
- USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO MINIMIZE DUST AND DIRT FROM RISING AND SCATTERING IN THE AIR. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
- COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED AGGREGATE (CA-6) OR APPROVED EQUAL.
- SEE LANDSCAPE PLANS FOR INFORMATION ON LANDSCAPE AND TREE PROTECTION, PRESERVATION, AND REMOVAL.
- EXISTING MONITORING WELLS ARE TO BE REMOVED AS NECESSARY AND SEALED BY STATE LICENSED WELL DRILLER PER ILLINOIS DEPARTMENT OF PUBLIC HEALTH REQUIREMENTS AND/OR LOCAL/COUNTY REQUIREMENTS.
- THESE DRAWINGS DO NOT INCLUDE THE REMOVAL OF UNDERGROUND STORAGE TANKS. SHOULD UNDERGROUND STORAGE TANKS BE ENCOUNTERED, CONTRACTOR TO CONTACT OWNER AND ENGINEER TO DETERMINE RESPONSIBILITY FOR ANY ENVIRONMENTAL REMEDIATION OR REMOVAL WORK AS NECESSARY. ANY REMOVAL OF UNDERGROUND STORAGE TANKS MUST BE IN CONFORMANCE WITH LOCAL AND STATE STANDARDS.

DEMOLITION LEGEND	
	CONCRETE PAVEMENT OR SIDEWALK REMOVAL (FULL-DEPTH)
	CONC. CURB/GUTTER OR UTILITY LINE TO BE REMOVED
	STRUCTURE/TREE TO BE REMOVED
	SAWCUT LINE



REVISIONS		DESCRIPTION
NO.	DATE	
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

PROJECT NO. 220929	PROJECT MANAGER SAK	DESIGNED BY KC	DRAWN BY NRS
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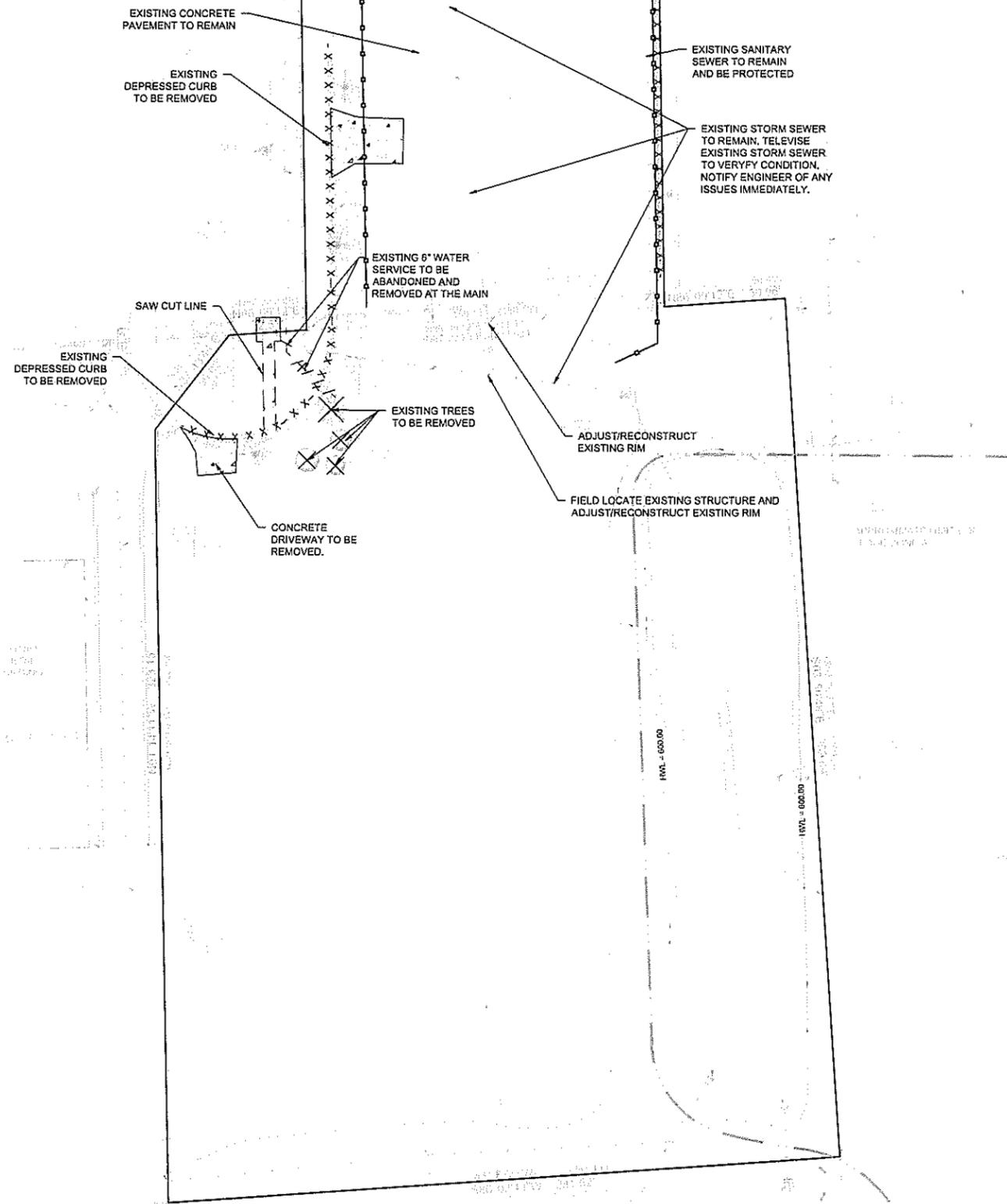
**DEMOLITION PLAN - NORTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ILLINOIS

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 Woodridge, IL 60517  
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DRAWING NO.  
**C2.3**

FOR CONTINUATION SEE SHEET C2.3

DEMOLITION LEGEND	
	CONCRETE PAVEMENT OR SIDEWALK REMOVAL (FULL-DEPTH)
	CONC. CURB/GUTTER OR UTILITY LINE TO BE REMOVED
	STRUCTURE/TREE TO BE REMOVED
	SAWCUT LINE



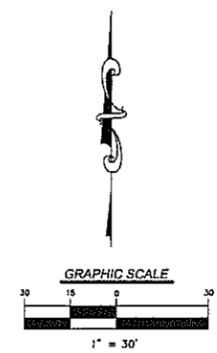
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NO.	DATE	DESCRIPTION
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2	05-30-25	REVISED PER VILLAGE COMMENTS

PROJECT NO. 220929	ORIGINAL ISSUE DATE: 07-26-2024
PROJECT MANAGER SAK	DESIGNED BY KC
DRAWN BY NRS	
<b>DEMOLITION PLAN - SOUTH</b>	
<b>35 FORESTWOOD DRIVE - ROMEVILLE</b>	
ROMEVILLE ILLINOIS	

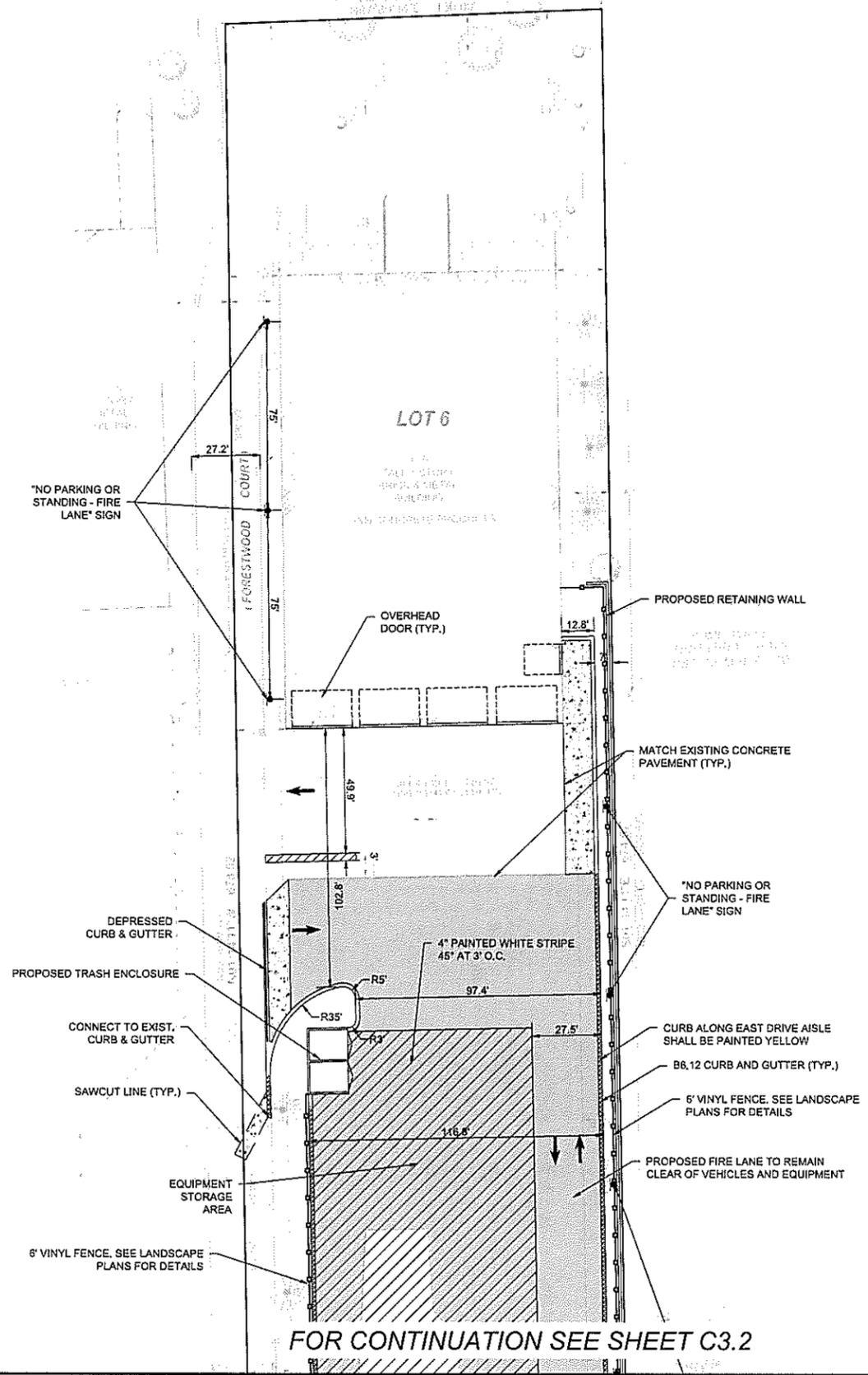
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DRAWING NO. **C2.4**



**FORESTWOOD DRIVE**



FOR CONTINUATION SEE SHEET C3.2

- NOTES:
1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  2. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
  3. BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
  4. ALL CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
  5. THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 3/4" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.

**PAVING LEGEND**

**HEAVY DUTY HMA PAVEMENT**

- 2" HMA SURFACE COURSE, MIX C, N50
- 3" HMA BINDER COURSE, IL19-, N50
- 10" AGGREGATE BASE COURSE - CA6

**HEAVY DUTY CONCRETE PAVEMENT**

- 8" P.C. CONCRETE WITH (6X6/W1.11-W1.11) W.W.F.
- 6" AGGREGATE BASE COURSE - CA6

**CURB LEGEND**

- B5.12 REGULAR PITCH CURB AND GUTTER
- B6.12 REVERSE PITCH CURB AND GUTTER
- B6.12 DEPRESSED CURB AND GUTTER

**SITE SUMMARY**

**LOT AREA**  
199,250 SF. (4.57 AC.)

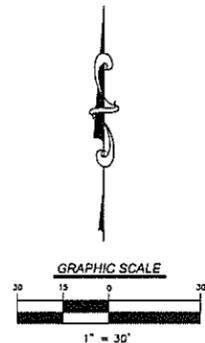
**PROPOSED BUILDING**  
BUILDING 19,838 SF.  
F.A.R. 0.10

**LOT COVERAGE**  
IMPERVIOUS 3.24 AC.  
PERVIOUS 1.33 AC. (29%)

**PARKING SUMMARY**

**PROVIDED STALLS**

- STANDARD STALLS = 12
- ACCESSIBLE SPACES = 0
- TOTAL PARKING PROVIDED = 12
- TOTAL TRUCK PARKING PROVIDED = 15



REVISIONS		DESCRIPTION
NO.	DATE	
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-25-25	REVISED PER VILLAGE COMMENTS

**LAYOUT AND PAVING PLAN - NORTH**

**35 FORESTWOOD DRIVE - ROMEOVILLE**

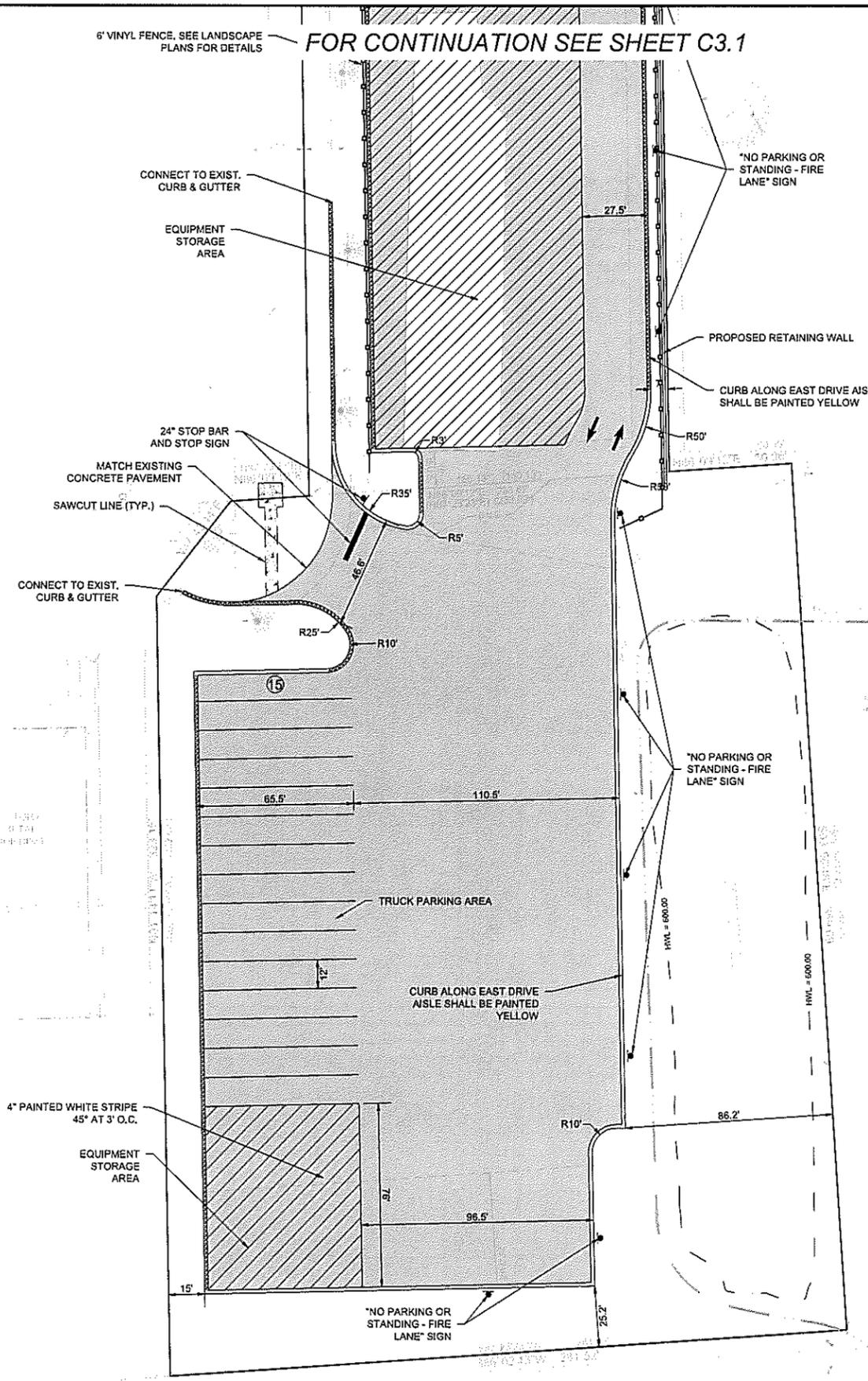
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DRAWING NO.  
**C3.1**

6" VINYL FENCE, SEE LANDSCAPE PLANS FOR DETAILS

FOR CONTINUATION SEE SHEET C3.1



- NOTES:
1. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
  2. ALL PROPOSED ON-SITE STRIPING SHALL BE PAINTED WHITE UNLESS OTHERWISE NOTED.
  3. BUILDING DIMENSIONS ARE TO OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
  4. ALL CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
  5. THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS 3/4" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.

PAVING LEGEND	
<b>HEAVY DUTY HMA PAVEMENT</b>	
	2" HMA SURFACE COURSE, MIX C, N50 3" HMA BINDER COURSE, IL19-, N50 10" AGGREGATE BASE COURSE - CA6
<b>HEAVY DUTY CONCRETE PAVEMENT</b>	
	8" P.C. CONCRETE WITH (6X6/W1.11-W1.11) W.W.F. 6" AGGREGATE BASE COURSE - CA6

CURB LEGEND	
	B6.12 REGULAR PITCH CURB AND GUTTER
	B6.12 REVERSE PITCH CURB AND GUTTER
	B6.12 DEPRESSED CURB AND GUTTER

SITE SUMMARY	
<b>LOT AREA</b>	
199,250 SF. (4.57 AC.)	
<b>PROPOSED BUILDING</b>	
BUILDING	19,838 SF.
F.A.R.	0.10
<b>LOT COVERAGE</b>	
IMPERVIOUS	3.24 AC.
PERVIOUS	1.33 AC. (29%)
<b>PARKING SUMMARY</b>	
<b>PROVIDED STALLS</b>	
STANDARD STALLS	= 12
ACCESSIBLE SPACES	= 0
TOTAL PARKING PROVIDED	= 12
TOTAL TRUCK PARKING PROVIDED	= 15

REVISIONS		
NO.	DATE	DESCRIPTION
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

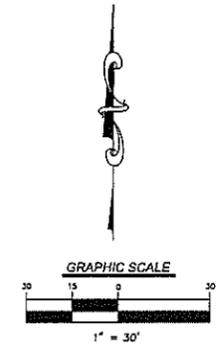
ORIGINAL ISSUE DATE: 07-26-2024

PROJECT NO.	220929
PROJECT MANAGER	SAK
DESIGNED BY	KC
DRAWN BY	ARS

LAYOUT AND PAVING PLAN - SOUTH  
 35 FORESTWOOD DRIVE - ROMEVILLE  
 ROMEVILLE ILLINOIS

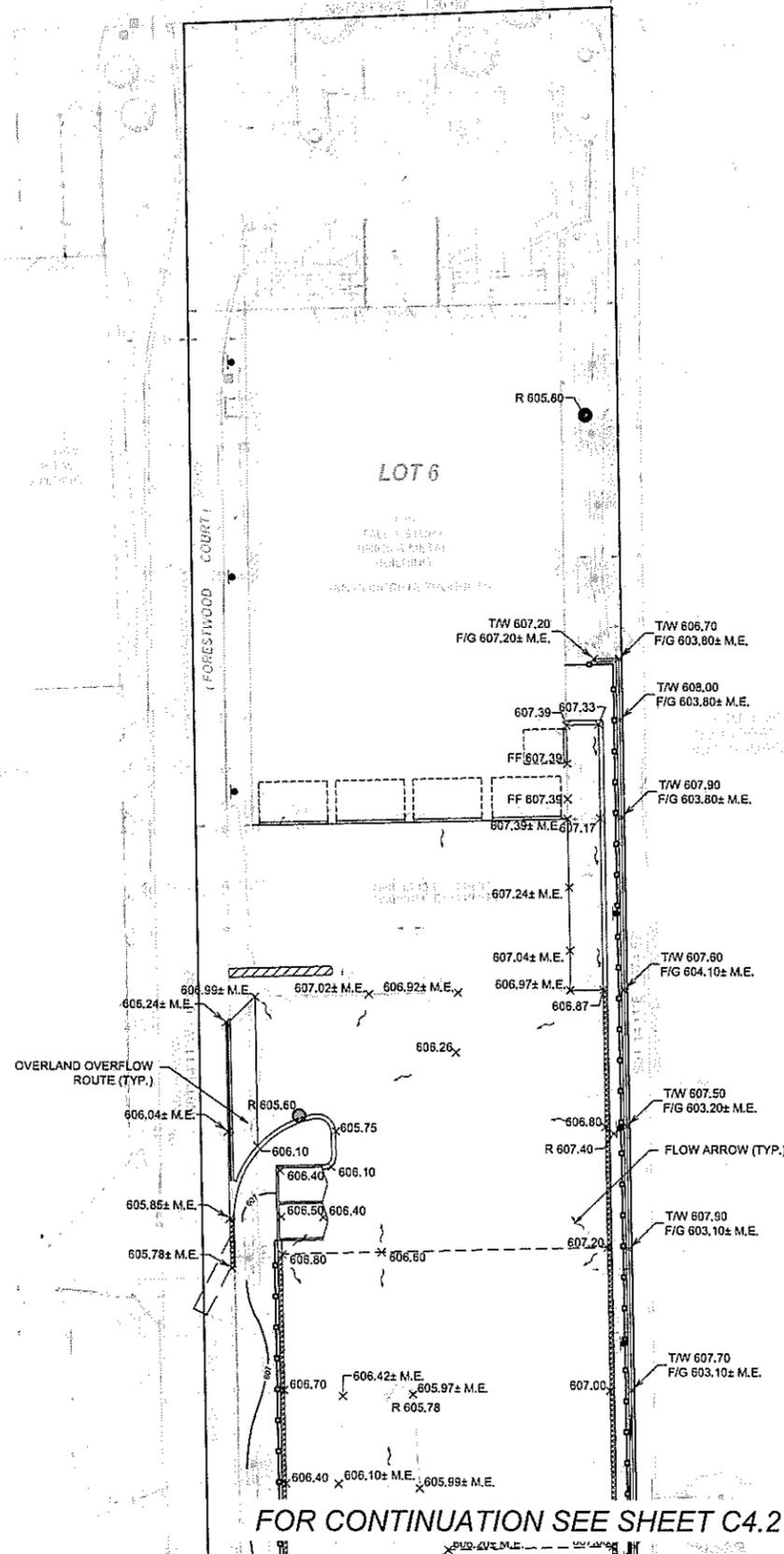
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DRAWING NO.  
**C3.2**



**FORESTWOOD DRIVE**

**LOT 6**



FOR CONTINUATION SEE SHEET C4.2

- NOTES:
1. ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
  2. ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. SUBTRACT TOPSOIL THICKNESS OR PAVEMENT SECTION TO ESTABLISH SUBGRADE ELEVATIONS.
  3. PROVIDE 1.50% CROSS SLOPE AND 4.00% MAXIMUM LONGITUDINAL SLOPE ON ALL SIDEWALKS AND PEDESTRIAN PATHS UNLESS OTHERWISE INDICATED. PLEASE NOTE THAT THE ILLINOIS ACCESSIBILITY CODE REQUIRES A MAXIMUM CONSTRUCTED CROSS SLOPE OF 2.00% AND LONGITUDINAL SLOPE OF 5.00%.

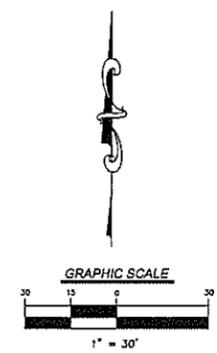
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2	03-20-25	REVISED PER VILLAGE COMMENTS			

PROJECT NO. 220929  
 ORIGINAL ISSUE DATE: 07-26-2024  
 PROJECT MANAGER: SAK  
 DESIGNED BY: KC  
 DRAWN BY: NRS

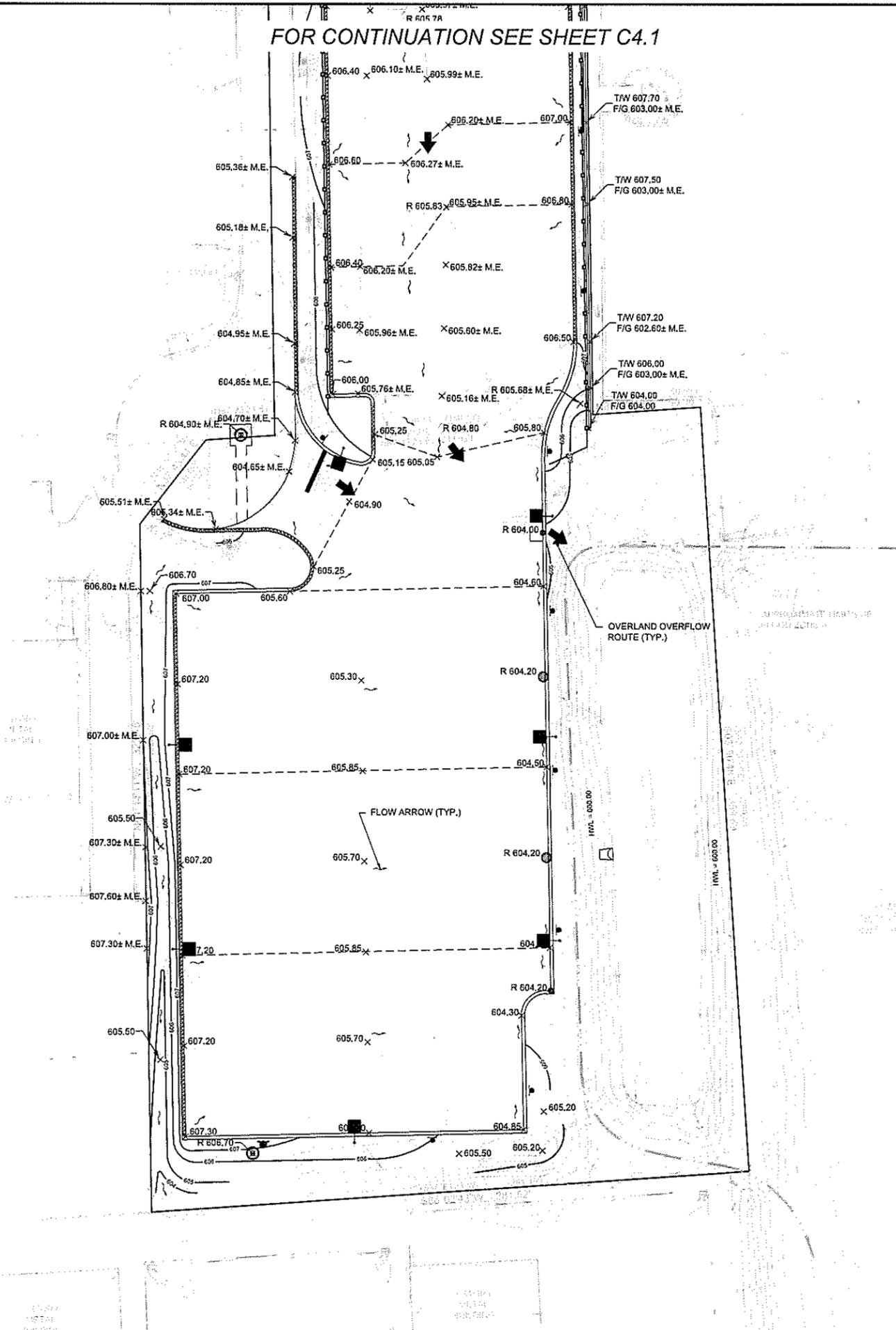
**GRADING PLAN - NORTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ILLINOIS

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FOR CONTINUATION SEE SHEET C4.1



ORIGINAL ISSUE DATE: 07-26-2024		REVISIONS	
NO.	DATE	DESCRIPTION	DESCRIPTION
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2	02-30-25	REVISED PER VILLAGE COMMENTS	

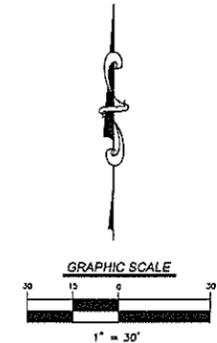
PROJECT NO. 220929  
 PROJECT MANAGER SAK  
 DESIGNED BY KC  
 DRAWN BY: NFS

**GRADING PLAN - SOUTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ROMEOVILLE ILLINOIS

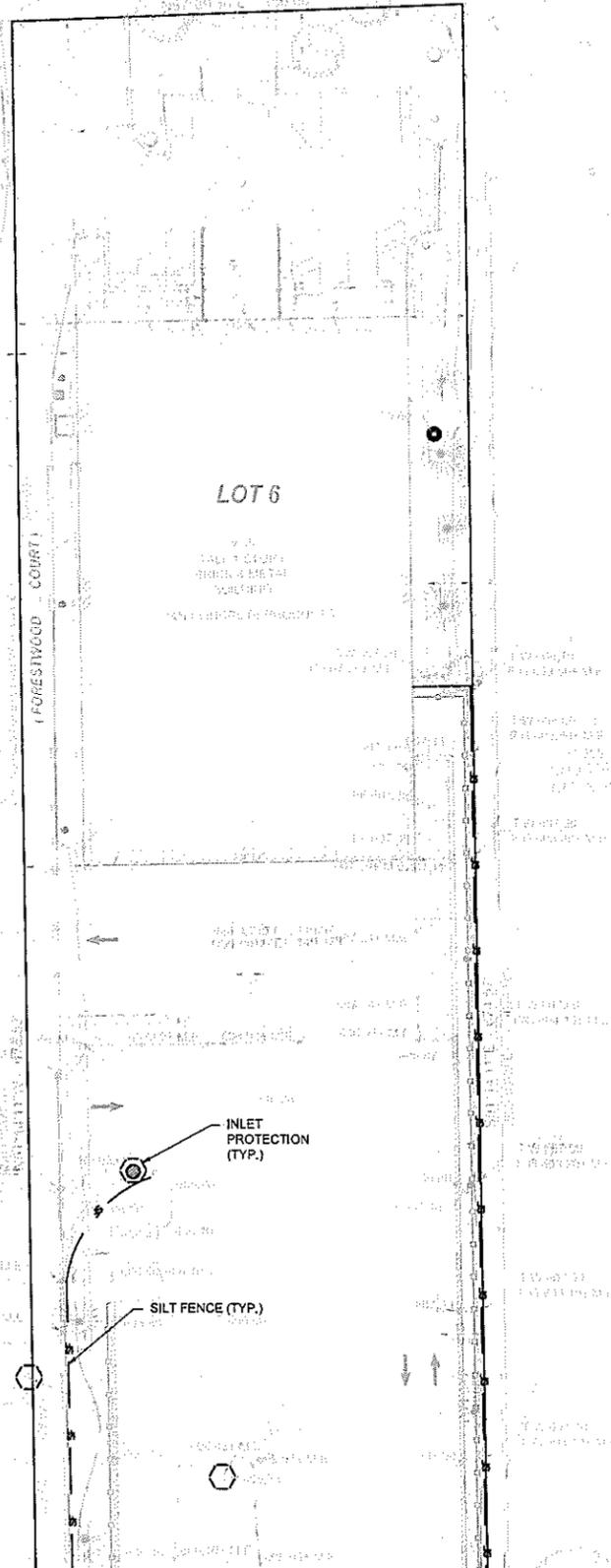
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FORESTWOOD DRIVE

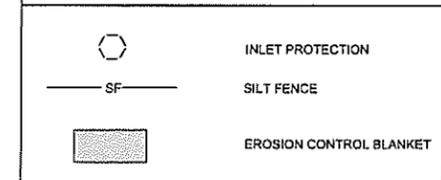


FOR CONTINUATION SEE SHEET C4.4

**NOTES:**

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
3. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON SHEET C4.5.
4. EROSION CONTROL BLANKET (ROLLMAX ERONET S150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 8:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF ALL SWALES.
5. ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.

**EROSION CONTROL LEGEND**



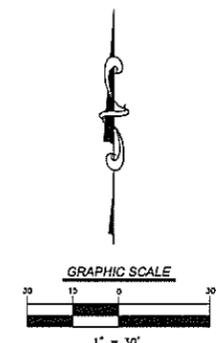
ORIGINAL ISSUE DATE: 07-26-2024		REVISIONS		
NO.	DATE	DESCRIPTION	NO.	DATE
1	11-04-24	REVISED PER VILLAGE COMMENTS		
2	05-30-25	REVISED PER VILLAGE COMMENTS		

PROJECT NO. 220829  
 PROJECT MANAGER SAK  
 DESIGNED BY KC  
 DRAWN BY NRS

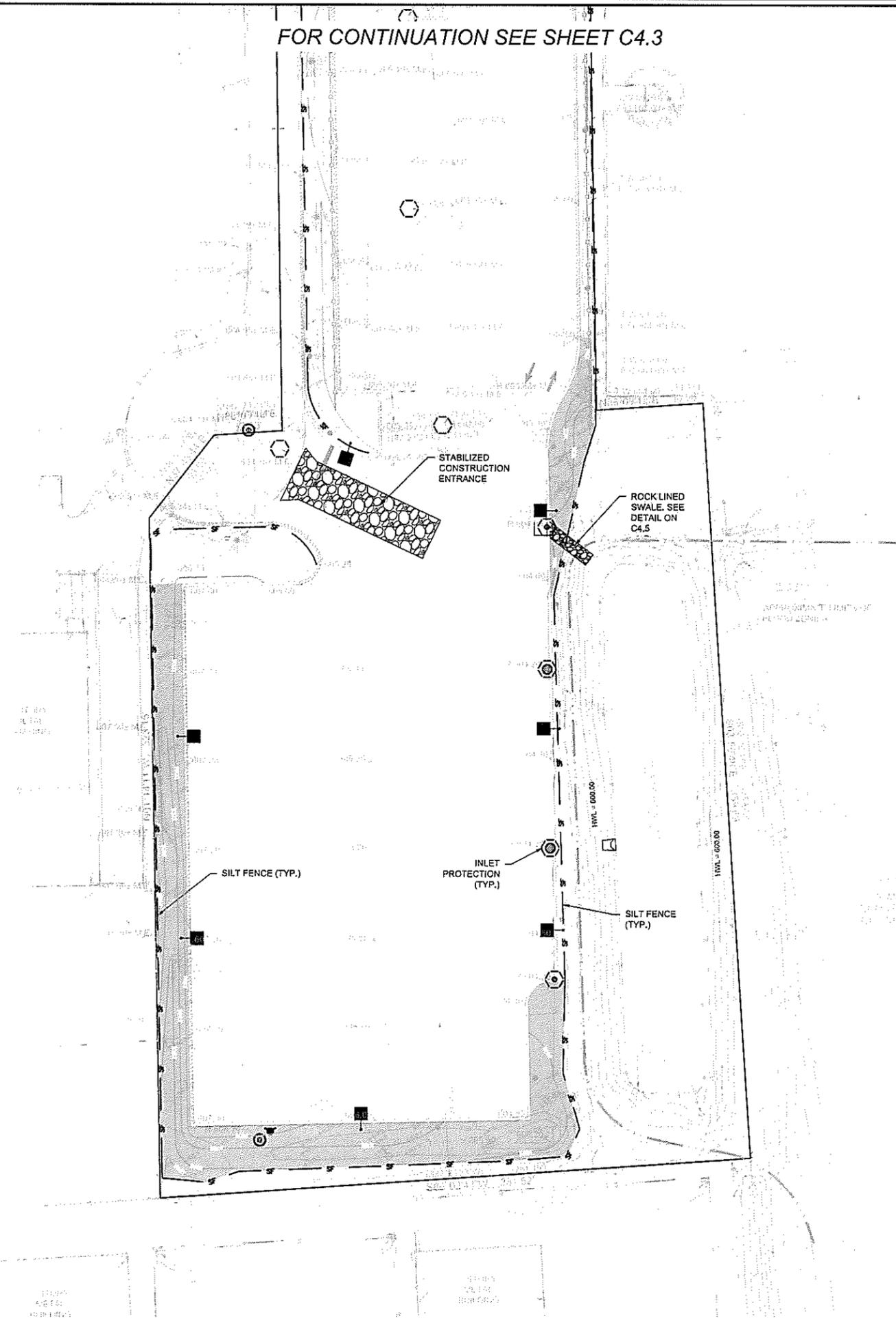
**EROSION CONTROL PLAN - NORTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ROMEOVILLE ILLINOIS

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 Woodridge, IL 60517  
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DRAWING NO. **C4.3**

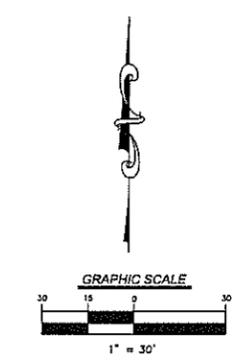
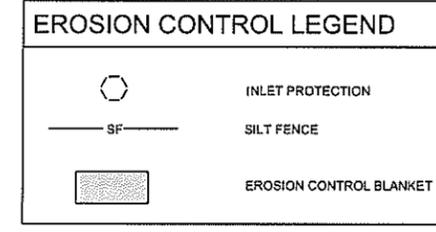


FOR CONTINUATION SEE SHEET C4.3



**NOTES:**

1. CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
3. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON SHEET C4.5.
4. EROSION CONTROL BLANKET (ROLLMAX ERONET S150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 8:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF ALL SWALES.
5. ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.



PROJECT NO. 220829		ORIGINAL ISSUE DATE: 07-26-2024	
NO.	DATE	DESCRIPTION	REVISIONS
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**EROSION CONTROL PLAN - SOUTH**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ROMEOVILLE ILLINOIS

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DRAWING NO.  
**C4.4**

1. SITE DESCRIPTION
- A. THE CONSTRUCTION ACTIVITY CONSISTS OF CONSTRUCTION OF SITE GRADING, INFRASTRUCTURE FOR A COMMERCIAL DEVELOPMENT.
- B. THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THIS SITE IS INSTALLATION OF SOIL EROSION CONTROL MEASURES, DEMOLITION OF EXISTING CONDITIONS, CLEARING AND GRUBBING, MASS GRADING, UTILITY CONSTRUCTION, FINE GRADING, PAVEMENT CONSTRUCTION AND LANDSCAPING.
- C. THE TOTAL AREA OF THE SITE IS 3.29 ACRES. 3.00 ACRES ARE EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES.
- D. THE RUNOFF COEFFICIENT OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED IS ESTIMATED TO BE 0.55 FOR THE PAVEMENT AND 0.35 FOR LANDSCAPE. THE SOIL TYPES THAT ARE PREVALENT ON THE SITE ARE ASHKUM SILTY CLAY LOAM AND BEECHER SILT LOAM, WHICH BOTH HAVE A HYDROLOGIC GROUP D CLASSIFICATION.
- E. THIS PLAN INDICATES DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND CONSTRUCTION CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO A SURFACE WATER.
- F. THE RECEIVING WATER IS THE DESPLAINERS RIVER.

2. CONTROLS
- A. EROSION AND SEDIMENT CONTROLS
- (i) STABILIZATION PRACTICES
- PRIOR TO MASS EARTHWORK OF EACH AREA OF THE SITE, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES AS INDICATED ON THE PLAN, UPON CONSTRUCTION OF THE STORM SEWER SYSTEM, INLET FILTERS SHALL BE INSTALLED. ALL DISTURBED AREAS OF THE SITE SHALL BE BROUGHT TO FINAL GRADE, RESPAVED WITH TOPSOIL AND ESTABLISHED WITH PERMISSIBLE VEGETATION AS SOON AS PRACTICABLE. THESE CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERMITTER CONTROL.

DUST CONTROL MEASURES MUST BE IMPLEMENTED AT ALL TIMES DURING THE DURATION OF THE PROJECT, INCLUDING NON-WORKING HOURS, WEEKENDS, AND HOLIDAYS AND ARE REQUIRED UNTIL GROUND COVER HAS BEEN ESTABLISHED. COMMON DUST CONTROL MEASURES INCLUDE IRRIGATION OF THE SOILS ON DRY WINDY DAYS, THE USE OF MULCH, VEGETATIVE COVERS, SPRAY-ON ADHESIVES, BARRIERS, OR STONE.

EXCEPT AS PROVIDED IN PARAGRAPHS (A) AND (B) BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

(A) WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

(B) WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS), TEMPORARY STABILIZATION DOES NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

(iii) STRUCTURAL PRACTICES

STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED EARLY IN THE MASS GRADING PROCESS. DISTURBED AREAS OF THE SITE SHALL BE GRADED TO DRAIN TO THE STORMWATER FACILITY. SILT FENCE SHALL BE INSTALLED DOWNSTREAM OF ANY AREAS THAT DO NOT DRAIN THROUGH THE STORMWATER FACILITY. SILT FENCE SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE UPWARD OF THE PERMITTER CONTROL.

(iii) BEST MANAGEMENT PRACTICES FOR IMPAIRED WATERS

FOR ANY SITE WHICH DISCHARGES DIRECTLY TO AN IMPAIRED WATER IDENTIFIED IN THE AGENCY'S 303(d) LISTING FOR SUSPENDED SOLIDS, TURBIDITY, OR SILTATION ON THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE DESIGNED FOR A STORM EVENT EQUAL TO OR GREATER THAN A 25-YEAR 24-HOUR RAINFALL EVENT. IF REQUIRED BY FEDERAL REGULATIONS OR THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S 2025 ILLINOIS URBAN MANUAL, THE STORM WATER POLLUTION PREVENTION PLAN SHALL ADHERE TO A MORE RESTRICTIVE DESIGN CRITERIA.

B. STORMWATER MANAGEMENT

(i) STORMWATER MANAGEMENT FACILITIES FOR THIS SITE ARE EXISTING AND LOCATED OFFSITE.

(ii) RUP RAP IS TO BE PLACED AT DISCHARGE LOCATIONS TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO THE WATERCOURSE.

C. OTHER CONTROLS

(i) WASTE DISPOSAL: NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

(ii) EACH SUBCONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

D. APPROVED STATE OR LOCAL PLANS

EXCEPT WHERE MODIFIED ON THIS PLAN, ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE SUBDIVISION AND DEVELOPMENT CODES AND STANDARDS OF THE VILLAGE OF ROMEOVILLE AS PUBLISHED BY THE MUNICIPALITY AND THE REQUIREMENTS CONTAINED IN ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 2002. IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITEWORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

3. MAINTENANCE

EACH SUBCONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE. MAINTENANCE ITEMS INCLUDE STRAW BALES, INLET FILTERS, SILT FENCE, CONSTRUCTION ENTRANCES, AND VEGETATION THROUGHOUT THE SITE. FURTHERMORE, ANY SOIL THAT IS TRANSPORTED OFFSITE SHALL BE CLEANED DAILY, OR AS REQUESTED BY THE LOCAL AGENCY.

4. INSPECTIONS

QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SHOWFALL. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS, SUCH AS A LICENSED PROFESSIONAL ENGINEER OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES.

A. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 2 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH 3 ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE REPORT SHALL BE SIGNED BY THE PERMITTEE.

D. WEEKLY INSPECTION REPORTS AND THOSE REQUIRED AFTER 0.50" OF RAINFALL SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE VIA EMAIL TO [npdes@romeoville.com](mailto:npdes@romeoville.com).

E. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE

- RESULTED FROM THE NONCOMPLIANCE.
- F. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.
- G. ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS
- ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

5. NON-STORM WATER DISCHARGES

THE FOLLOWING SOURCES OF NON-STORMWATER MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

- FIRE FIGHTING ACTIVITIES
- WATER MAIN HYDRANT FLUSHING
- WATERING FOR DUST CONTROL
- IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH
- WASH WATER WHERE DETERGENTS ARE NOT USED.
- UNCONTAMINATED GROUND WATER

NON-FIRE FIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL SITE DE-WATERING, INCLUDING PUMP DISCHARGE SHALL PASS THROUGH SEDIMENT CONTROL DEVICES PRIOR TO LEAVING THE SITE.

6. RETENTION OF RECORDS

A. THE PERMITTEE SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIODS OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE AGENCY AT ANY TIME.

B. THE PERMITTEE SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

7. NOTICE OF TERMINATION

UPON FINAL STABILIZATION OF THE SITE THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION IN ACCORDANCE WITH NPDES PERMIT NO. ILR10.

8. CERTIFICATION STATEMENT

THE FOLLOWING STATEMENT SHALL BE SIGNED PRIOR TO ANY WORK AUTHORIZED BY NPDES PERMIT NO. ILR10 IS PERFORMED AT THE SITE. THE UNDERSIGNED IS RESPONSIBLE FOR IMPLEMENTATION OF ALL MEASURES IDENTIFIED ON THIS PLAN. I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (GNPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2024  
BY \_\_\_\_\_ TITLE \_\_\_\_\_  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
TELEPHONE \_\_\_\_\_

THIS EROSION CONTROL PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND COMPLIES WITH THE URBAN SOIL CONTROL AND STANDARDS IN ILLINOIS MANUAL (LATEST EDITION) AND THE GENERALLY RECOGNIZED METHODS IN USE IN THE AREA.

ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-068596  
MY LICENSE EXPIRES ON NOVEMBER 30, 2025

\* EXPECTED DATE THAT CLEARING WILL BEGIN - JUNE 2020  
\* ESTIMATED DURATION OF EXPOSURE OF CLEARED AREAS - 1 YEAR

THE SEQUENCE OF CONSTRUCTION WILL BE AS FOLLOWS:

- CLEARING AND GRUBBING AND STRIPPING OF TOPSOIL
- MASS GRADE PAVING FACILITIES AND STORMWATER MANAGEMENT AREAS
- INSTALLATION OF UTILITIES
- PLACEMENT OF PAVEMENT
- FINAL GRADING
- PLACEMENT OF TOPSOIL
- FINAL SITE STABILIZATION

EROSION CONTROL SCHEDULE

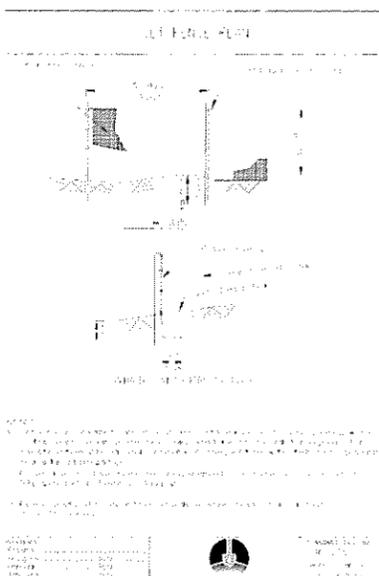
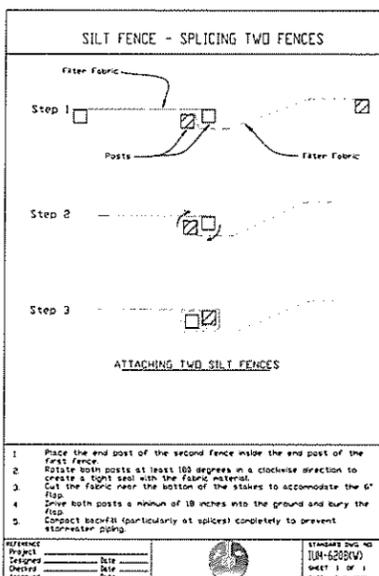
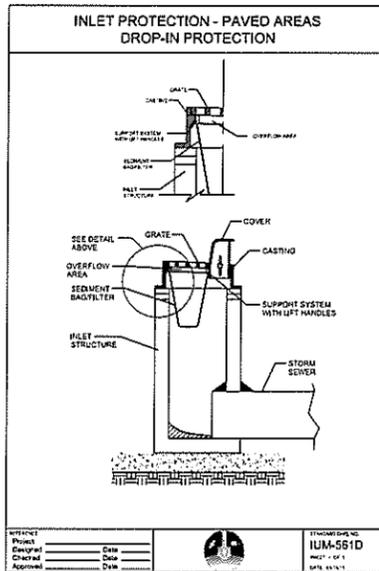
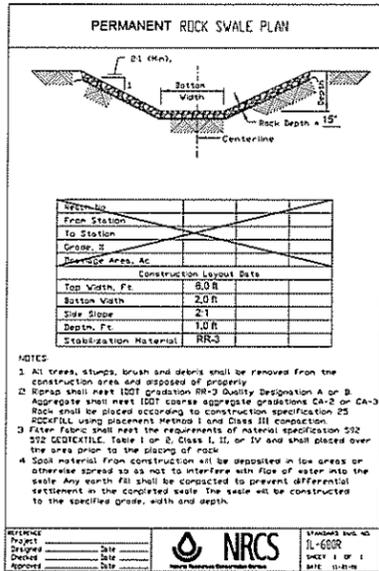
- CLEARING OF THE SITE.
- INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE.
- SITE GRADING, INCLUDING INSTALLATION OF TEMPORARY SOIL STABILIZATION.
- CONSTRUCTION OF STORM SEWER SYSTEM AND INSTALLATION OF INLET FILTER BASKETS.
- CONSTRUCTION OF REMAINDER OF UNDERGROUND UTILITY SYSTEMS.
- FINAL SITE GRADING.
- PARKING LOT PAVING.
- ESTABLISHMENT OF PERMANENT VEGETATION.
- REMOVAL OF TEMPORARY EROSION CONTROL MEASURES.

MAINTENANCE PLAN

- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 14 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 30 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.
- STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
- ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF EACH WORK DAY.
- VEHICULAR ACCESS TO THE SITE SHALL BE RESTRICTED TO DESIGNATED STABILIZED CONSTRUCTION ENTRANCE LOCATIONS.

INSPECTION TASK	FREQUENCY OF INSPECTION	RESPONSIBLE PARTIES
REMOVE SEDIMENT DEBRIS TRANSPORTED OFF-SITE WHERE VEHICLES ARE ENTERING AND EXITING THE SITE	DAILY	OWNER
INSPECT SITE TO ENSURE ALL EROSION CONTROL MEASURES ARE WORKING PROPERLY	ONCE A WEEK AND WITHIN 24 HOURS OF END OF A 0.5 IN OR GREATER STORM	OWNER
INSPECT, CLEAN OR REPLACE INLET FILTER BASKETS	ONCE A WEEK	OWNER
INSPECT, REPAIR, OR REPLACE SILT FENCE	ONCE A WEEK	OWNER
INSPECT, CLEAN OR REPLACE CONSTRUCTION ENTRANCE	ONCE A WEEK	OWNER
CHECK FOR DEBRIS IN ADJOINING DETENTION FACILITY, ESPECIALLY THE OUTLET PIPE AND SURROUNDING AREA	ONCE A WEEK	OWNER

NOTE: THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THE PLAN AND ANY OTHER MEASURES INSTALLED DURING THE CONSTRUCTION PHASES OF THE PROJECT UNTIL THE SITE IS STABILIZED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.



TEMPORARY SEEDINGS *		
TYPE OF SEED	LSI/ACRE	REMARKS
WHEAT OR RYE	150 LB.	COVER SEED 1" TO 1 1/2" DEEP
RED TOP GRASS - <i>Agrostis alba</i>	1.5 LB.	COVER SEED 1/4" DEEP
SPRING OATS - <i>Avena sativa</i>	100 LB.	COVER SEED 1" DEEP
ANNUAL RYEGRASS - <i>Lolium multiflorum</i>	40 LB.	COVER SEED 1/4" DEEP

\* NOT NECESSARY WHERE MULCH IS APPLIED.

TEMPORARY SEEDING DATES												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WHEAT OR RYE												
RED TOP GRASS												
SPRING OATS												
ANNUAL RYEGRASS												

\*\*SEE LANDSCAPE PLANS FOR PERMANENT SEEDING SPECIFICATIONS.

- EROSION CONTROL NOTES:**
- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE PRIOR TO COMMENCEMENT OF WORK.
  - CONTRACTOR TO INSTALL SILT FENCE PRIOR TO COMMENCEMENT OF ANY EARTHWORK. CONTRACTOR TO MAINTAIN SILT FENCE AS SHOWN AND INSTALL ADDITIONAL SILT FENCE WHEREVER NECESSARY THROUGHOUT CONSTRUCTION ACTIVITIES TO MINIMIZE SOIL EROSION.
  - CONTRACTOR TO INSTALL INLET PROTECTION ON ALL OPEN LID STRUCTURES. SEE INLET PROTECTION DETAIL ON THIS SHEET.
  - EROSION CONTROL BLANKET (ROLLMAX ERONET 5150 OR APPROVED EQUAL) SHALL BE PLACED ON ALL AREAS WITH SIDE SLOPES OF 8:1 OR GREATER, AND IN BOTTOM AND SIDE SLOPES OF ALL SWALES.
  - ALL SEDIMENT AND EROSION CONTROL MEASURES IN AND AROUND THE PROPOSED IMPROVEMENTS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES UNTIL THE PROPOSED IMPROVEMENTS ARE COMPLETED AND THE SITE ADEQUATELY STABILIZED.
  - THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES AS INDICATED ON THIS SHEET IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY V3 COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE PROVISIONS INDICATED IN THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND INSPECTION FREQUENCY, AS REQUIRED BY THE IEPA NPDES PHASE II PERMIT PROGRAM REQUIREMENTS.
  - ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE.
  - ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.
  - MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.
  - ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION IS ACHIEVED WITH PERMANENT SOIL STABILIZATION MEASURES.
  - DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS FOLLOWING THE END OF ACTIVE DISTURBANCE OR REDISTURBANCE.
  - IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.
  - THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.
  - ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".
  - A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMARKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF ANY WORK ON-SITE FOR ALL CONSTRUCTION SITES OVER ONE ACRE, INCLUDED IN THE NOI SHALL BE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), WHICH INCLUDES THE APPROPRIATE BMP'S TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
  - AN INCIDENT OF NON-COMPLIANCE (ION) MUST BE COMPLETED AND SUBMITTED TO THE IEPA IF, AT ANY TIME, AN EROSION OR SEDIMENT CONTROL DEVICE FAILS.
  - A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
  - A NOTICE OF TERMINATION (NOT) MUST BE COMPLETED AND SUBMITTED TO THE IEPA WHEN ALL PERMANENT EROSION CONTROL MEASURES ARE IN PLACE WITH A 70% ESTABLISHMENT OF VEGETATION.
  - DUST CONTROL MEASURES MUST BE IMPLEMENTED AT ALL TIMES DURING THE DURATION OF THE PROJECT, INCLUDING NON-WORKING HOURS, WEEKENDS, AND HOLIDAYS AND ARE REQUIRED UNTIL GROUND COVER HAS BEEN ESTABLISHED. COMMON DUST CONTROL MEASURES INCLUDE IRRIGATION OF THE SOIL ON DRY WINDY DAYS, THE USE OF MULCH, VEGETATIVE COVERS, SPRAY-ON ADHESIVES, BARRIERS, OR STONE.
  - THE STOCKPILING OF MATERIAL ON-SITE WILL NOT BE ALLOWED.

MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF

LDH Illinois LLC Series 2  
16 W 020 79th Street  
Burr Ridge, Illinois 60527  
708-526-2125  
Contact: Vic Dodavski

EROSION CONTROL NOTES AND DETAILS

35 FORESTWOOD DRIVE - ROMEOVILLE, ILLINOIS

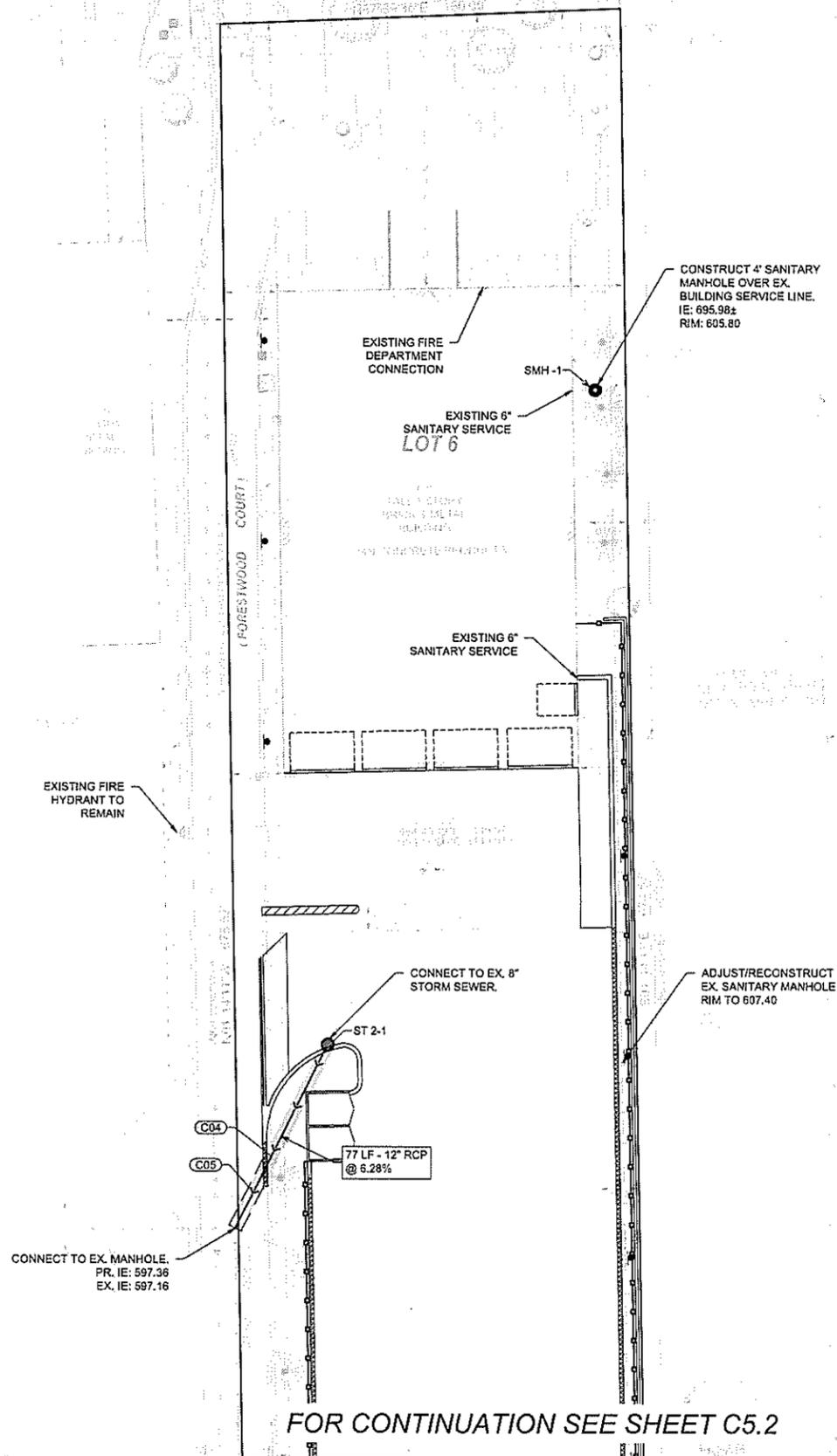
PROJECT NO: 2209289  
PROJECT MANAGER: SAK  
DESIGNED BY: KC  
DRAWN BY: NRS

ORIGINAL ISSUE DATE: 07-26-2024  
NO. DATE DESCRIPTION  
1 11-04-24 REVISED PER VILLAGE COMMENTS  
2 05-30-25 REVISED PER VILLAGE COMMENTS

7325 James Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com

DRAWING NO. C4.5

**FORESTWOOD DRIVE**



FOR CONTINUATION SEE SHEET C5.2

- NOTES:
- CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
  - UNLESS INDICATED OTHERWISE:
    - FRAME AND OPEN LID STORM STRUCTURES IN PAVEMENT SHALL BE EAST JORDAN 1050Z1 WITH 1058M1 GRATE, OR APPROVED EQUAL.
    - FRAME AND CLOSED LID STORM STRUCTURES IN PAVEMENT SHALL BE EAST JORDAN 1050Z1 WITH 1020A HD COVER, OR APPROVED EQUAL.
    - FRAME AND OPEN LID STORM STRUCTURES IN OPEN SPACE SHALL BE EAST JORDAN 6527-N, OR APPROVED EQUAL.
    - FRAME AND CLOSED LID STORM STRUCTURES LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE NEENAH R-1772 WITH TYPE C LID (OR EQUIVALENT) WITH PERMA-GRIP SURFACE, DRILL ONE - 1" DIAMETER LIFT HOLE INSTEAD OF A STANDARD PICK HOLE.
  - LIGHT POLES SHOWN FOR COORDINATION OR LOCATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE PLANS BY SITE LIGHTING CONSULTANT FOR SITE LIGHTING INFORMATION.
  - THE VILLAGE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWERS.

TRENCH BACKFILL LIMITS

**UTILITY CROSSINGS**

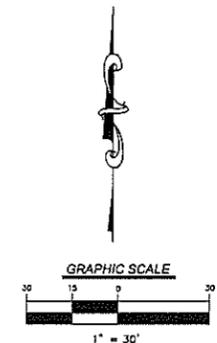
- C01 EX. ELEC. - FIELD VERIFY 10" WM T/P 599.70
- C02 EX. GAS - FIELD VERIFY 10" WM T/P 599.70
- C03 42" ST B/P 598.10 10" WM T/P 596.60
- C04 EX. ELEC. - FIELD VERIFY 12" ST T/P 600.40
- C05 12" ST B/P 598.17 EX. 6" WM T/P 596.20±

**STORM STRUCTURE TABLE**

STRUCTURE	DESCRIPTION	RIM	INVERT IN	INVERT OUT
FES 1-1	15' FES	.	597.00 (15° W)	
ST 1-1	4' MH (Open)	RIM: 604.20	599.30 (12° N) 599.30 (12° S)	599.05 (15° E)
ST 1-2	4' MH (Open)	RIM: 604.20	599.85 (12° N)	599.86 (12° S)
ST 1-3	2' Inlet	RIM: 604.00		600.20 (12° S)
ST 1-4	2' Inlet	RIM: 604.20		600.00 (12° N)
ST 2-1	4' MH (Open)	RIM: 605.60	602.17 (0° NE)	602.17 (12° SW)

**WATER STRUCTURE TABLE**

STRUCTURE NAME	STRUCTURE DESCRIPTION	RIM GRADE
FH 1	FIRE HYDRANT	F/G = 607.30
VV - 1	10" PRESSURE CONNECTION TO EX. 10" WATERMAIN IN 5' DIA. VALVE VAULT	RIM=604.90 ±M.E.
VV - 2	10" GATE VALVE IN 5' DIA. VALVE VAULT	RIM=606.70



PROJECT NO. 220929	PROJECT MANAGER SAK	DESIGNED BY KC	DRAWN BY NRS	ORIGINAL ISSUE DATE: 07-26-2024
REVISIONS				
NO.	DATE	DESCRIPTION		
1	11-04-24	REVISED PER VILLAGE COMMENTS		
2	05-30-25	REVISED PER VILLAGE COMMENTS		

**UTILITY PLAN - NORTH**

**35 FORESTWOOD DRIVE - ROMEOVILLE**

ILLINOIS

7325 James Avenue  
Woodridge, IL 60517  
630.724.5200 phone  
www.v3co.com

DRAWING NO.  
**C5.1**

FOR CONTINUATION SEE SHEET C5.1

EXISTING FIRE HYDRANT TO REMAIN

EXISTING STORM SEWER SHALL BE TELEVIEWED AND VERIFIED THAT IT IS CLEAR OF DEBRIS AND PROPERLY FUNCTIONING. CONTRACTOR TO CLEAN OUT PIPES AND STRUCTURES AS NEEDED.

INSTALL NEW INTERNAL AND EXTERNAL CHIMNEY SEALS IN EXISTING SANITARY MANHOLE.

FIELD VERIFY LOCATION OF EXISTING STORM SEWER STRUCTURE. ADJUST RIM TO PROPOSED FINISHED GRADE.

ADJUST/RECONSTRUCT EX. RIM FROM 605.16 TO 605.00

PROPOSED DRAINAGE EASEMENT

PROPOSED 15' PUBLIC UTILITY EASEMENT

REPLACE MISSING MANHOLE GRATE WITH AN OPEN LID GRATE.

10" WATERMAIN STUB FOR FUTURE VILLAGE CONNECTION

EXISTING OUTLET CONTROL STRUCTURE. CONTRACTOR TO CLEAR EXISTING STRUCTURE OF ANY ACCUMULATED SEDIMENT / DEBRIS AND VERIFY THAT THE EXISTING 4" PIPE RESTRICTOR IS PROPERLY FUNCTIONING. NOTIFY ENGINEER OF ANY ISSUES THAT ARE ENCOUNTERED.

EXISTING STORM SEWER SHALL BE TELEVIEWED AND VERIFIED THAT IT IS CLEAR OF DEBRIS. CONTRACTOR TO CLEAN OUT PIPE AS NEEDED.

NOTES:

- CONTRACTOR TO FIELD VERIFY LOCATION, INVERT, AND SIZE OF ALL EXISTING UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING UTILITY WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- UNLESS INDICATED OTHERWISE:
  - FRAME AND OPEN LID STORM STRUCTURES IN PAVEMENT SHALL BE EAST JORDAN 1050Z1 WITH 1050H1 GRATE, OR APPROVED EQUAL.
  - FRAME AND CLOSED LID STORM STRUCTURES IN PAVEMENT SHALL BE EAST JORDAN 1050Z1 WITH 1020A HD COVER, OR APPROVED EQUAL.
  - FRAME AND OPEN LID STORM STRUCTURES IN OPEN SPACE SHALL BE EAST JORDAN 6527-N, OR APPROVED EQUAL.
  - FRAME AND CLOSED LID STORM STRUCTURES LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE "NEENAH R-1772 WITH TYPE C LID (OR EQUIVALENT) WITH PERMA-GRIP SURFACE. DRILL ONE - 1" DIAMETER LIFT HOLE INSTEAD OF A STANDARD PICK HOLE.
- LIGHT POLES SHOWN FOR COORDINATION OR LOCATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE PLANS BY SITE LIGHTING CONSULTANT FOR SITE LIGHTING INFORMATION.
- THE VILLAGE REQUIRES SUBMISSION OF RECORDED VIDEO INSPECTIONS OF ALL PUBLIC STORM SEWERS.

TRENCH BACKFILL LIMITS

UTILITY CROSSINGS

- C01 EX. ELEC. - FIELD VERIFY 10" WM T/P 599.70
- C02 EX. GAS - FIELD VERIFY 10" WM T/P 599.70
- C03 42" ST B/P 598.10 10" WM T/P 596.60
- C04 EX. ELEC. - FIELD VERIFY 12" ST T/P 600.40
- C05 12" ST B/P 598.17 EX. 6" WM T/P 596.20

STRUCTURE	DESCRIPTION	RIM	INVERT IN	INVERT OUT
FES 1-1	15" FES		597.00 (15" W)	
ST 1-1	4' MH (Open)	RIM: 604.20	599.30 (12" N) 599.30 (12" S)	599.05 (15" E)
ST 1-2	4' MH (Open)	RIM: 604.20	599.86 (12" N)	599.86 (12" S)
ST 1-3	2' Inlet	RIM: 604.00		600.20 (12" S)
ST 1-4	2' Inlet	RIM: 604.20		600.00 (12" N)
ST 2-1	4' MH (Open)	RIM: 605.60	602.17 (8" NE)	602.17 (12" SW)

STRUCTURE NAME	STRUCTURE DESCRIPTION	RIM GRADE
FH 1	FIRE HYDRANT	F/G=607.30
VV - 1	10" PRESSURE CONNECTION TO EX. 10" WATERMAIN IN 5' DIA. VALVE VAULT	RIM=604.90 ±M.E.
VV - 2	10" GATE VALVE IN 5' DIA. VALVE VAULT	RIM=606.70

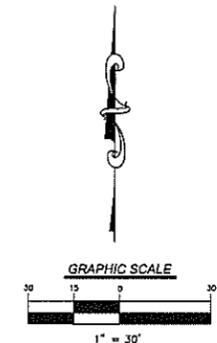
REVISIONS

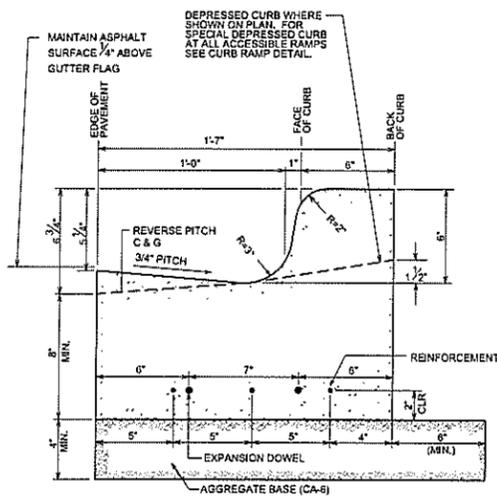
NO.	DATE	DESCRIPTION
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

UTILITY PLAN - SOUTH  
35 FORESTWOOD DRIVE - ROMEOVILLE  
ILLINOIS

7325 Janes Avenue  
Woodridge, IL 60517  
630.724.5200 phone  
www.v3co.com

DRAWING NO.  
**C5.2**



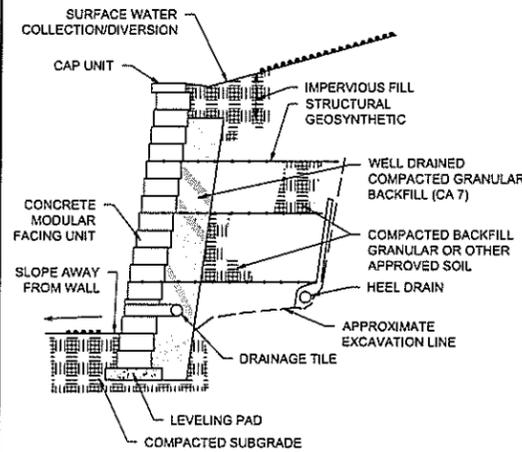


RELATIVE ELEVATIONS		
	STANDARD PITCH	REVERSE PITCH
E/P	0.00	0.00
GUTTER FLAG	-1/4" (-0.021)	+1/4" (+0.021)
FLOW LINE	-1" (-0.083)	+1" (+0.083)
T/C	+5" (+0.417)	+7" (+0.583)

**NOTES:**

1. REINFORCEMENT: PROVIDE 3 NO.5 STEEL BARS, 10' LONG, CENTERED OVER ALL TRENCH CROSSINGS.
2. EXPANSION JOINT: PLACE AT ENDS OF ALL RADI. 5' ON EACH SIDE OF DRAINAGE STRUCTURES AND AT 45' MAX. INTERVALS IN STRAIGHT CURB & GUTTER. PROVIDE NO. 6x16" LONG SMOOTH STEEL DOVEL BARS WITH 1" DIA. GREASE CAP THRU EXPANSION JOINTS. (3/4" THICK BITUMINOUS FILLER MATERIAL).
3. CONTRACTION JOINT: PROVIDE 2" DEEP CONTRACTION JOINTS AT 15' INTERVALS.
4. 2'-6" LONG TIE BAR ON 2'-6" CENTERS SHALL BE PROVIDED WHEN CURB IS ADJACENT TO P.C.C. PAVEMENT.
5. PROVIDE 2 NO. 6x2'-6" LONG TIE BARS TO CONNECT EXISTING AND NEW CURB AND GUTTER.

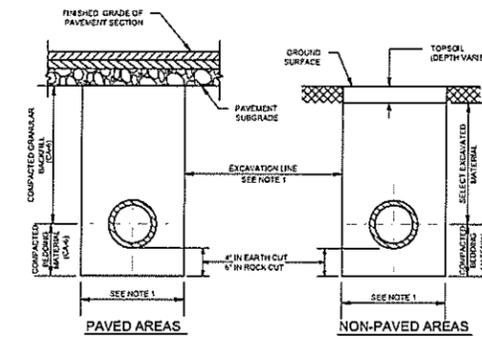
**B6.12 CURB AND GUTTER**



**NOTES:**

1. PROVIDE SHOP DRAWING AND STRUCTURAL CALCULATIONS FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS.
2. RETAINING WALL BLOCK SHALL BE A PINNACLE WALL SYSTEM OR APPROVED EQUAL. COLOR OF WALL SHALL BE APPROVED BY OWNER.

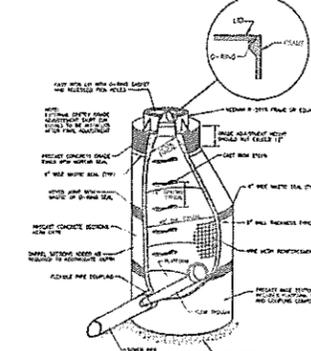
**BLOCK RETAINING WALL**



**NOTES:**

1. EXCAVATION LINE: PIPE SIZES UP TO AND INCLUDING 24", USE I.D. PLUS 20" PIPE SIZES OVER 24", USE O.D. PLUS 24"
2. LIMITS OF TRENCH BACKFILL SHALL EXTEND 2' OUTSIDE ALL PAVED AREAS.

**TRENCH BACKFILL SECTIONS FOR STORM SEWER**

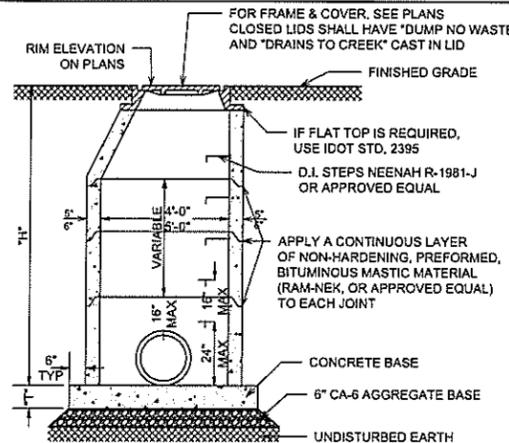


**DETAIL OF TYPICAL SANITARY MANHOLE**

**NOTES:**

1. ALL MANHOLE VAULTS SHALL BE MANUFACTURED AND CAST IN PLACE CONCRETE TO A MINIMUM OF 4500 PSI AT 28 DAYS. THE VAULT SHALL BE CAST WITH A FINISHED GRADE OF 1/4" BELOW THE FINISHED GRADE OF THE PAVEMENT SURFACE. THE VAULT SHALL BE CAST WITH A FINISHED GRADE OF 1/4" BELOW THE FINISHED GRADE OF THE PAVEMENT SURFACE. THE VAULT SHALL BE CAST WITH A FINISHED GRADE OF 1/4" BELOW THE FINISHED GRADE OF THE PAVEMENT SURFACE.

**SANITARY MANHOLE**

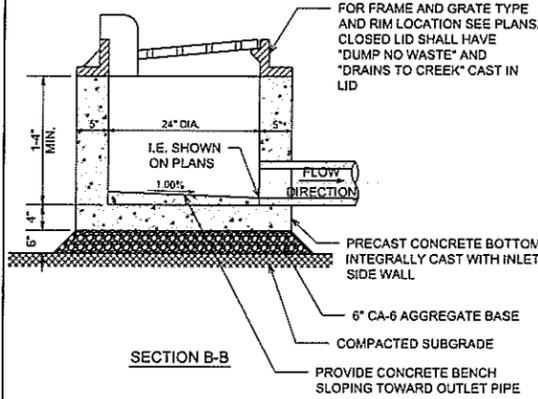


**NOTES:**

1. WHEN "H" EQUALS 12 FT. OR LESS, "T" = 6" FOR "H" OVER 12 FT. "T" = 10"
2. THE FLAT SLAB TOP MAY BE USED IN LIEU OF THE TAPERED TOPS AT THE OPTION OF THE CONTRACTOR OR WHEN FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS.

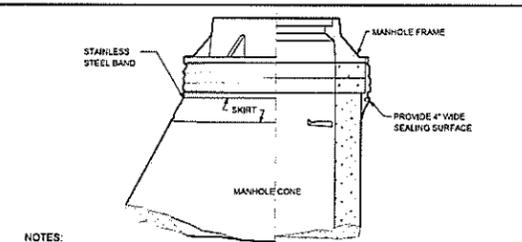
MANHOLE DIAMETER	WALL THICKNESS
3'-0"	5"
3'-6"	5"
4'-0"	7"
4'-6"	8"
5'-0"	9"
5'-6"	10"

**STORM MANHOLE**



**SECTION B-B**

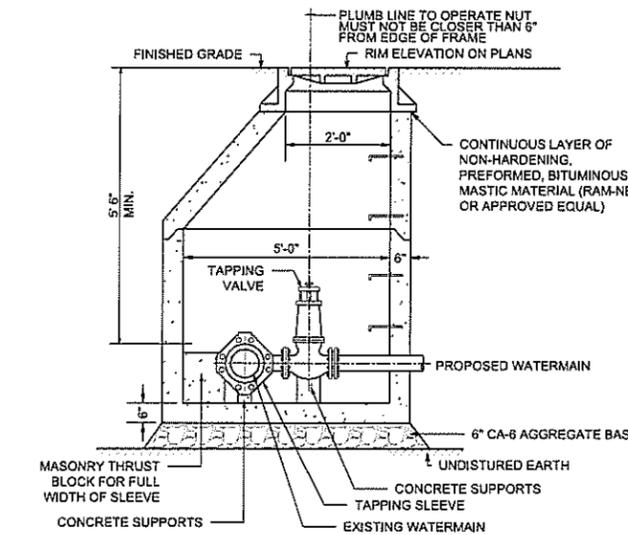
**2' DIAMETER INLET**



**NOTES:**

1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL VALVE VAULTS, SANITARY SEWER SYSTEM MANHOLES, AND GREASE TRAP CATCH BASIN (AND EXISTING MANHOLES BEING ADJUSTED).
2. EXTERNAL CHIMNEY SEALS SHALL CONFORM TO ASTM C922. ACCEPTABLE EXTERNAL CHIMNEY SEALS INCLUDE RFI-SHIELD UNI-BAND.
3. INTERNAL CHIMNEY SEALS SHALL BE RAVEN 581 BRUSH GRADE, A 100% SOLIDS, FLUID APPLIED POLYURIA ELASTOMER REPAIR MATERIAL AS APPLIED PER THE FOLLOWING: FOR SURFACE PREPARATION, SURFACES SHOULD BE THOROUGHLY CLEAN AND DRY. CONCRETE AND MORTAR MUST BE CURED AT LEAST 7 DAYS AND NO FROST OR WET CONDITIONS CAN BE PRESENT DURING INSTALLATION. REMOVE ALL LOOSE MORTAR AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LANTANGE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT AND HARDENERS. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH STEEL-SEAM FT910. AFTER ENSURING THAT ALL SURFACES ARE CLEAN THE CHIMNEY SEAL COATING MATERIAL SHALL BE APPLIED EVENLY BY SPRAYING OVER THE ENTIRE CHIMNEY SEAL AREA INCLUDING THE FRAME JOINT AREA AND THE VERTICAL RISER OF THE ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FILM SHALL BE APPLIED AT A WET MILS SPREADING RATE OF BETWEEN 100 TO 125 MILS. THE FINAL INTERNAL CHIMNEY SEAL SHALL PASS VISUAL INSPECTION AND BE COMPLETELY FREE OF PINHOLES OR VOIDS.
4. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

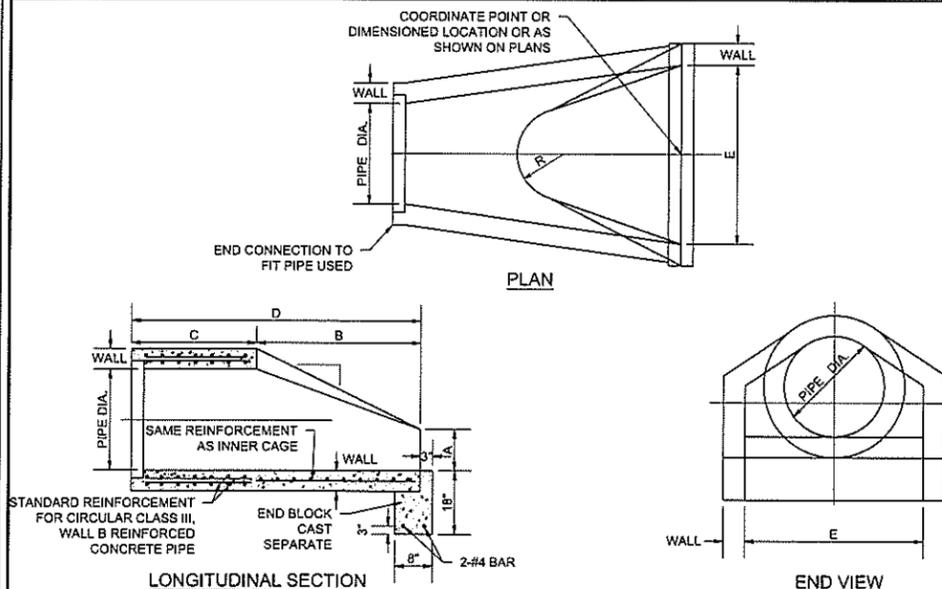
**INTERNAL / EXTERNAL CHIMNEY SEAL**



**PRESSURE CONNECTION**

**NOTES:**

1. BARS AND PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES AND PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVANIZED.



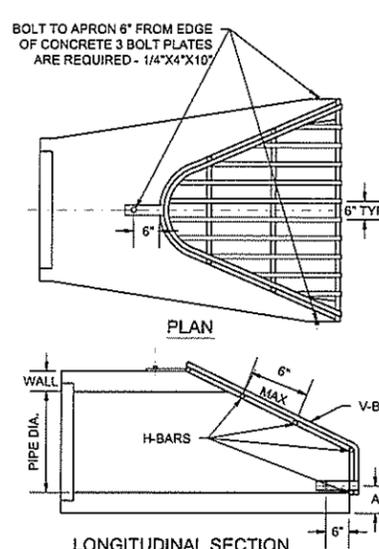
**PRECAST REINFORCED CONCRETE FLARED END SECTION**

PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2 1/2"	8"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-8"	6'-1 1/2"	4'-0"	14"	3:1
27"	3 1/4"	10 1/2"	4'-0"	2'-5 1/2"	6'-1 1/2"	4'-6"	14 1/2"	3:1
30"	3 1/2"	12"	4'-6"	1'-3 1/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	13 1/2"	4'-10 1/2"	3'-8 1/4"	6'-1 3/4"	5'-6"	17 1/2"	3:1
36"	4"	15"	5'-3"	3'-4 1/4"	6'-1 3/4"	6'-0"	20"	3:1
42"	4 1/2"	21"	5'-3"	3'-5"	6'-1 3/4"	6'-6"	22"	3:1
48"	5"	24"	6'-0"	2'-5"	6'-2"	7'-0"	22"	3:1
54"	5 1/2"	27"	6'-5"	3'-5"	6'-4"	7'-6"	24"	2.4:1
60"	6"	35"	5'-0"	3'-9"	6'-3"	8'-0"	•	2:1
66"	6 1/2"	30"	6'-0"	2'-7"	6'-3"	8'-6"	•	2:1
72"	7"	38"	6'-6"	2'-11"	6'-3"	9'-0"	•	2.28:1
78"	7 1/2"	38"	7'-6"	2'-11"	6'-3"	9'-6"	•	2.12:1
84"	8"	36"	7'-6 1/2"	2'-11"	6'-3 1/2"	10'-0"	•	1.84:1

\* RADIUS AS FURNISHED BY MANUFACTURER

**NOTES:**

1. PRECAST CONCRETE FLARED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
2. LENGTHS OF PIPE WHICH TERMINATE WITH A FLARED END SECTION INCLUDE THE LENGTH OF THE FLARED END SECTION.



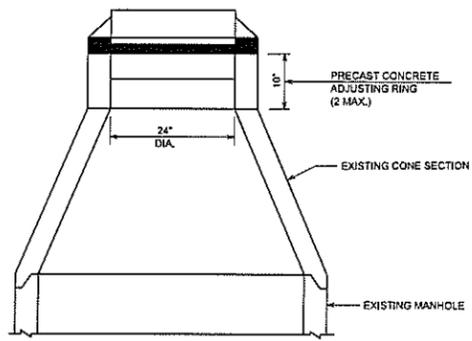
**GRATE FOR FLARED END SECTION**

ROUND PIPE AFRONS	AFRON SIZE	V-BAR	H-BAR	NO. OF H-BARS REQ'D	BOLT DIA	"A" DIM
	INCHES	SIZE	SIZE			
12	1/2 DIA	5/8 DIA	3/4 DIA	3	1/2	4
15	1/2 DIA	5/8 DIA	3/4 DIA	3	1/2	4 1/2
18	1/2 DIA	5/8 DIA	3/4 DIA	4	1/2	4 1/2
21	1/2 DIA	5/8 DIA	3/4 DIA	4	1/2	5
24	5/8 DIA	3/4 DIA	3/4 DIA	4	1/2	5
27	5/8 DIA	3/4 DIA	3/4 DIA	4	1/2	5 1/2
30	5/8 DIA	3/4 DIA	3/4 DIA	4	1/2	5 1/2
36	3/4 DIA	1 DIA	3/4 DIA	4	3/4	8
42	3/4 DIA	1 DIA	3/4 DIA	4	3/4	8
48	3/4 DIA	1 DIA	3/4 DIA	5	3/4	8
54	3/4 DIA	1 1/2 PIPE	3/4 DIA	5	3/4	8
60	3/4 DIA	1 1/2 PIPE	3/4 DIA	5	3/4	8
66	3/4 DIA	1 1/2 PIPE	3/4 DIA	6	3/4	8
72	3/4 DIA	1 1/2 PIPE	3/4 DIA	6	3/4	9
84	3/4 DIA	1 1/2 PIPE	3/4 DIA	7	3/4	10
90	3/4 DIA	1 1/2 PIPE	3/4 DIA	7	3/4	14

**CONSTRUCTION DETAILS**  
**35 FORESTWOOD DRIVE - ROMEOVILLE**  
 ILLINOIS  
 ROMEOVILLE  
 7325 Janus Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 www.v3co.com  
 DRAWING NO. **C6.1**

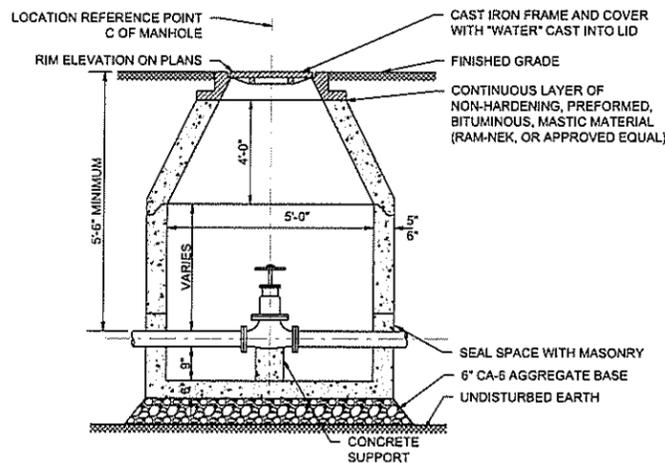
NO.	DATE	DESCRIPTION
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

ORIGINAL ISSUE DATE: 07-26-2024  
 PROJECT MANAGER: SAK  
 DESIGNED BY: KC  
 DRAWN BY: NRS



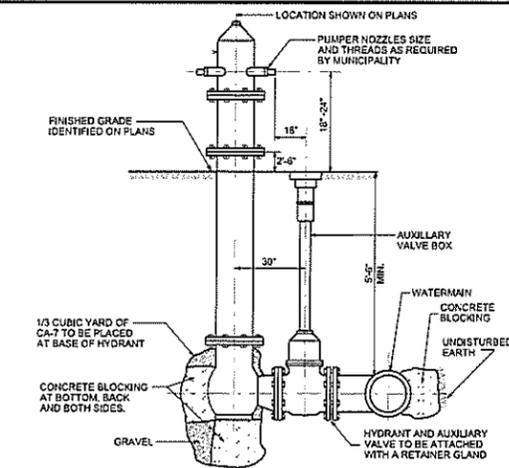
1. WHEN ADJUSTMENTS ARE NECESSARY, THEY'LL BE PERFORMED WITH A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AN MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT).
2. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT, APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR E 2 STIK) TO EACH JOINT TO PREVENT INFLOW.
3. WHEN ADJUSTMENT HEIGHT EXCEEDS 10" MANHOLE RECONSTRUCTION IS REQUIRED.
4. NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHALL BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS.

MANHOLE ADJUSTMENT DETAIL



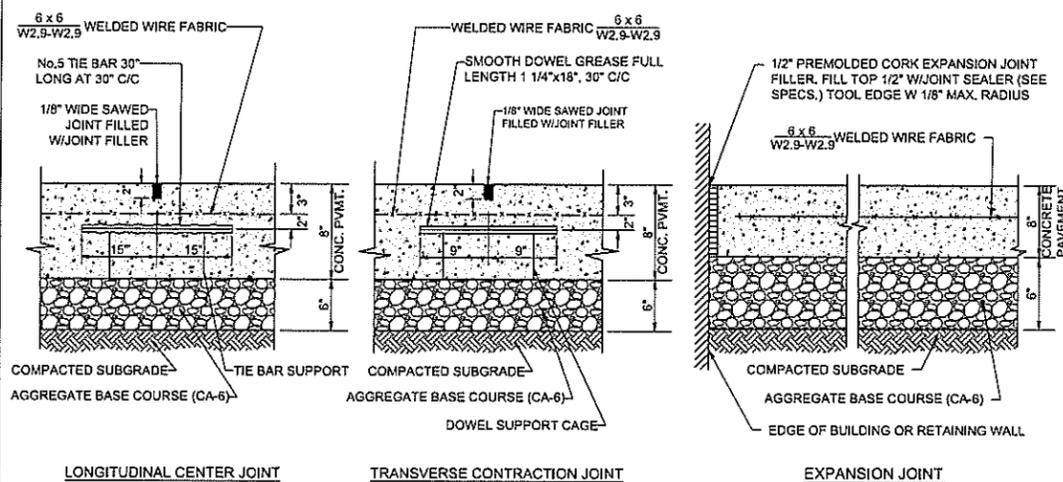
- NOTES:
1. CONCRETE TO BE MINIMUM 4500 PSI AT 28 DAYS.
  2. VAULTS TO BE MANUFACTURED WITH WELDED WIRE STEEL FABRIC CONFORMING TO ASTM A-185.
  3. VAULTS TO BE MANUFACTURED TO COMPLY WITH ASTM DESIGNATION C-478 AND IDOT STANDARDS.
  4. PRECAST SECTIONS TO BE JOINED WITH TONGUE AND GROOVE JOINTS SEALED WITH RUBBER GASKET O-RINGS PER ASTM C443.
  5. SEE PLANS FOR FRAME AND GRATE INFORMATION.
  6. CAST IRON STEPS TO BE PROVIDED AT 16" C-C WHEN REQUIRED.
  7. ALL VALVE VAULTS SHALL BE A MINIMUM OF 5' DIAMETER.
  8. FRAME AND COVER SHALL BE EAST JORDAN #1022Z3 EMBOSSED WITH 1020A HD "WATER" AND "VILLAGE OF ROMEOVILLE".
  9. ALL JOINTS NEED TO BE EXTERNALLY WRAPPED WITH MACRAP (MINIMUM 9" WIDE) OR EQUAL.
  10. RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL EXCEPT FOR DOGHOUSE MANHOLES WHERE BRICK/MORTAR WITH HYDROPLUG CEMENT IS REQUIRED ON BOTH THE INSIDE AND OUTSIDE OF THE PENETRATION.
  11. INTERNAL / EXTERNAL CHIMNEY SEALS ARE REQUIRED.
  12. MINIMUM OF TWO ADJUSTING RINGS (MIN. 6" ADJUSTING HEIGHT) AND MAXIMUM OF THREE RINGS (MAX. 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, TOP RING SHOULD BE RUBBER. USE ONE (1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISERS.
  13. VALVES MUST BE AMERICAN FLOW OR EAST JORDAN (FLOWMASTER). ALL SIZES SHOULD BE RESILIENT-SEALED GATE VALVES.

VALVE VAULT DETAIL

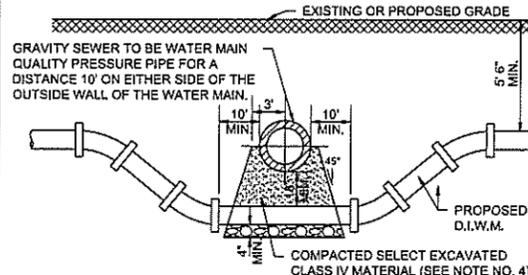


- NOTES:
1. HYDRANTS MUST BE EAST JORDAN WATER MASTER 58R250, WITH 6" PLAIN- END SHOE WITH ATTACHED 6" RESILIENT WEDGE MECHANICAL JOINT VALVE, AND MUST INCLUDE STORZ PUMPER CONNECTION ALONG WITH TWO 2-1/2" HOSE CONNECTIONS.

STANDARD HYDRANT ASSEMBLY

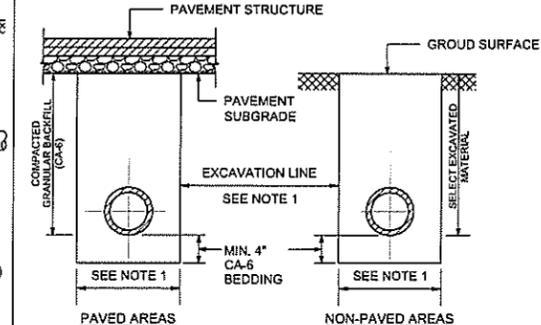


CONCRETE PAVEMENT JOINTS



- NOTES:
1. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED 5 DEGREES PER JOINT FOR PIPE UNDER 14" IN SIZE AND 3 DEGREES PER JOINT FOR PIPE 14" AND OVER IN SIZE. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING. RETAINER GLANDS TO BE CLOW NO. F-1058, OR APPROVED EQUAL.
  2. COMPACTED MATERIAL BELOW SEWER SHALL CONFORM TO STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS STD. DWG. NO. 20, AND 23
  3. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL COMPLY WITH SECTION 41-2.01 OF THE STANDARD SPECIFICATIONS FOR SEWERS AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.

WATER MAIN CROSSING



- NOTES:
1. EXCAVATION LINE: PIPE SIZES UP TO 24", USE I.D. PLUS 20" PIPE SIZES OVER 24", USE O.D. PLUS 24"
  2. LIMITS OF TRENCH GRANULAR BACKFILL SHALL EXTEND 2' OUTSIDE ALL PAVED AREAS.
  3. PROVIDE UNIFORM PIPE SUPPORT. - DIG CROSS TRENCHES EXCAVATED 2" WIDER THAN BELL - OR SEAT PIPE IN UNIFORM GRANULAR BEDDING

TRENCH BACKFILL SECTIONS FOR DUCTILE IRON WATER MAIN

REVISIONS		DESCRIPTION
NO.	DATE	

PROJECT MANAGER	SAK	DESIGNED BY	KC	DRAWN BY	ARS
NO. 1	11-04-24	REVISED PER VILLAGE COMMENTS			
NO. 2	05-30-25	REVISED PER VILLAGE COMMENTS			

CONSTRUCTION DETAILS  
 35 FORESTWOOD DRIVE - ROMEOVILLE  
 ILLINOIS

7325 James Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 www.v3co.com

DRAWING NO.  
**C6.2**

**35 FORESTWOOD DRIVE - WATERMAIN RESTRAINED LENGTHS**

Fitting Type	Pipe Material	Soil Type	Safety Factor	Trench Type	Depth of Bury	Test Pressure	Nominal Size	Bend Angle	Branch Size	Length Along Run	Lowside Depth	Restraint Length	Lower Restraint
Horizontal Bend	Poly Wrapped Ductile	CL	1	4	5	150	12	45				8 ft.	
Horizontal Bend	Poly Wrapped Ductile	CL	1	5	5	150	12	45				7 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	10		6	10		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	10		6	10		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		6	20		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		6	20		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		10	15		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		10	15		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		10	7		10 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		10	7		2 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		12	20		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		12	20		1 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		12	7		29 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		12	7		22 ft.	
Tee	Poly Wrapped Ductile	CL	1	4	5	150	12		12	5		41 ft.	
Tee	Poly Wrapped Ductile	CL	1	5	5	150	12		12	5		35 ft.	
Dead End	Poly Wrapped Ductile	CL	1	4	5	150	12					70 ft.	
Dead End	Poly Wrapped Ductile	CL	1	5	5	150	12					70 ft.	
												Upper Restraint	Lower Restraint
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	6	45			10	16 ft.	3 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	6	45			10	16 ft.	3 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	6	22.5			10	8 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	6	22.5			10	8 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	6	11.25			10	4 ft.	1 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	6	11.25			10	4 ft.	1 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	10	45			10	25 ft.	4 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	10	45			10	25 ft.	4 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	10	22.5			10	12 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	10	22.5			10	12 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	10	11.25			10	6 ft.	1 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	10	11.25			10	6 ft.	1 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	12	45			10	29 ft.	5 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	12	45			10	29 ft.	4 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	12	22.5			10	14 ft.	3 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	12	22.5			10	14 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	4	5	150	12	11.25			10	7 ft.	2 ft.
Vertical Offset	Poly Wrapped Ductile	CL	1	5	5	150	12	11.25			10	7 ft.	1 ft.

**WATERMAIN RESTRAINED JOINT NOTES:**

- RESTRAINED LENGTHS SHOWN ABOVE ARE PER EBAA RESTRAINT LENGTH CALCULATOR, AND ASSUMED LOCAL SOIL CONDITIONS.
- CONTRACTOR SHALL ADJUST RESTRAINT LENGTHS AS NEEDED TO MEET ACTUAL SITE CONDITIONS AT TIME OF CONSTRUCTION, AND IN ACCORDANCE WITH EBAA SPECIFICATIONS.
- ALL JOINTS MUST BE RESTRAINED WITH MEGALUGS (EBAA IRON), OR APPROVED EQUAL. THERE SHALL BE NO CONCRETE THRUST BLOCKS.
- ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
- IF THE DISTANCE BETWEEN FITTINGS IS LESS THAN, OR EQUAL TO THE CALCULATED RESTRAIN LENGTH, ALL JOINTS BETWEEN THOSE FITTINGS SHALL BE RESTRAINED.
- TRENCH TYPE 5 IN THE ABOVE TABLE IS FOR PAVED AREAS, TRENCH TYPE 4 IS FOR NON-PAVED AREAS.

ORIGINAL ISSUE DATE: 07-26-2024		REVISIONS	
NO.	DATE	DESCRIPTION	DESCRIPTION
1	11-06-24	REVISED PER VILLAGE COMMENTS	
2	06-30-25	REVISED PER VILLAGE COMMENTS	

**CONSTRUCTION DETAILS**

**35 FORESTWOOD DRIVE - ROMEOVILLE**

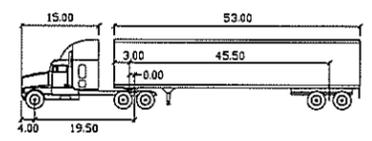
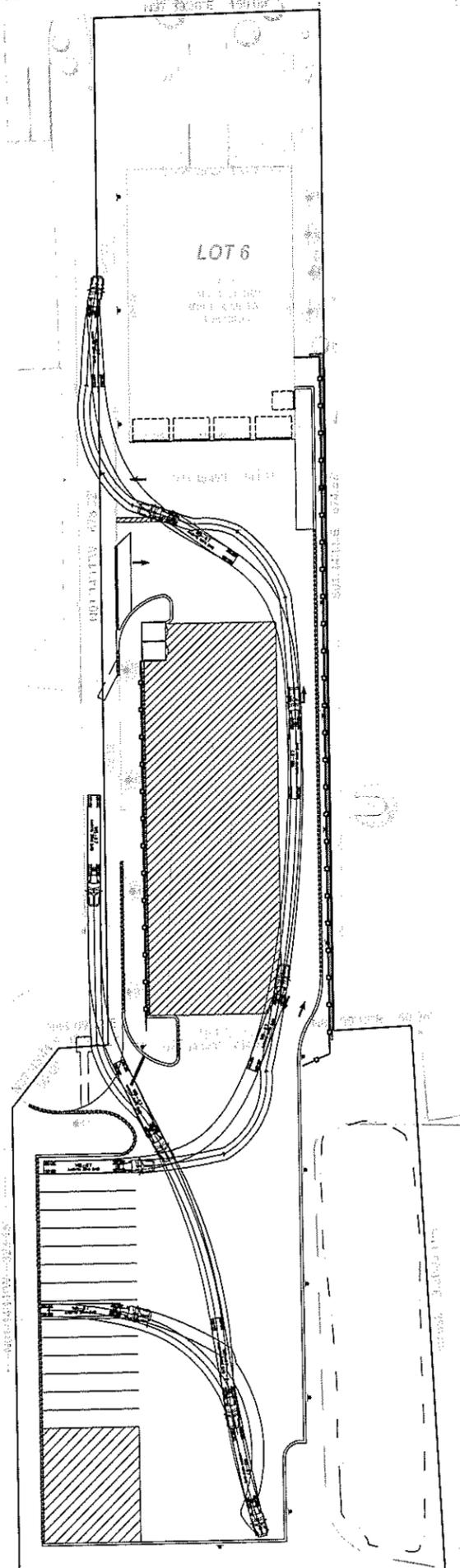
ILLINOIS

ROMEOVILLE

7325 James Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com

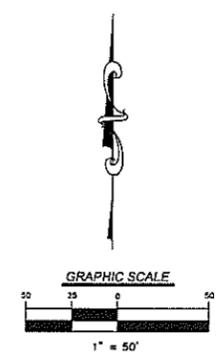


DRAWING NO.  
**C6.3**



WB-67

feet	
Tractor Width	15.00
Tractor Wheelbase	19.50
Tractor Wheel Offset	4.00
Trailer Length	45.50
Total Length	53.00
Lock to Lock Time	6.0
Steering Angle	28.5
Articulating Angle	70.0



PROJECT NO.	220029	ORIGINAL ISSUE DATE:	07-26-2024
PROJECT MANAGER	SAK	NO.	DATE
DESIGNED BY:	KC	1	11-04-24
DRAWN BY:	NFS	2	05-30-25

**WB 67 - TRUCK TURN EXHIBIT**

**35 FORESTWOOD DRIVE - ROMEOVILLE**

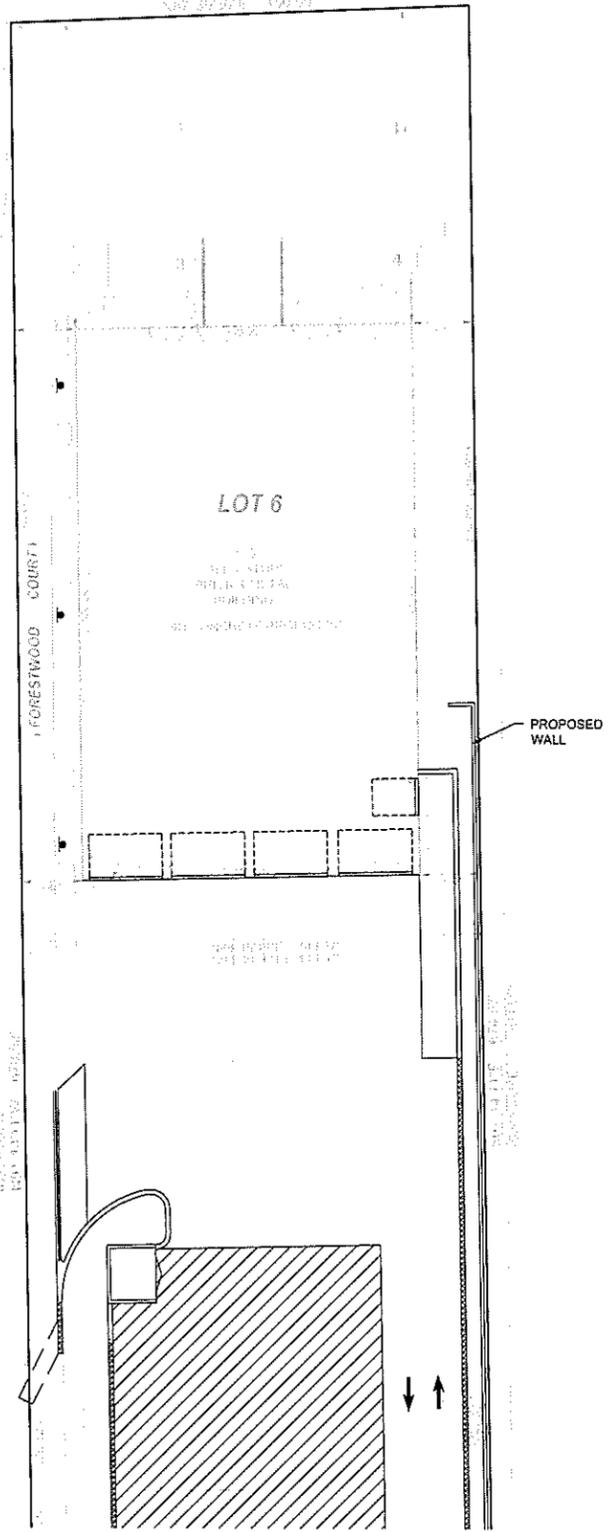
ROMEOVILLE ILLINOIS

7325 James Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com



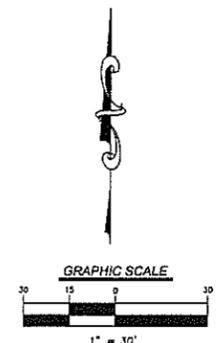
DRAWING NO.  
**EX 1**

FORESTWOOD DRIVE



FOR CONTINUATION SEE SHEET P1.2

SITE LIGHTING FIXTURE SCHEDULE							
SYMBOL	DESCRIPTION	QUANTITY	LLF	COLOR	MOUNTING	CONFIG.	CATALOG NO. & NOTES
SL-1	LITHONIA LIGHTING, D-SERIES SIZE 2 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P1, 135W, TYPE FORWARD THROW MEDIUM DISTRIBUTION WITH HOUSESIDE SHIELD	8	0.90	4000K	25'-0" POLE ON 3'-0" CONCRETE FOUNDATION, 28'-0" MOUNTING HEIGHT	1 FIXTURE	DSX2-LED-P1-40K-70CRI-TFTM-MVOLT-HS

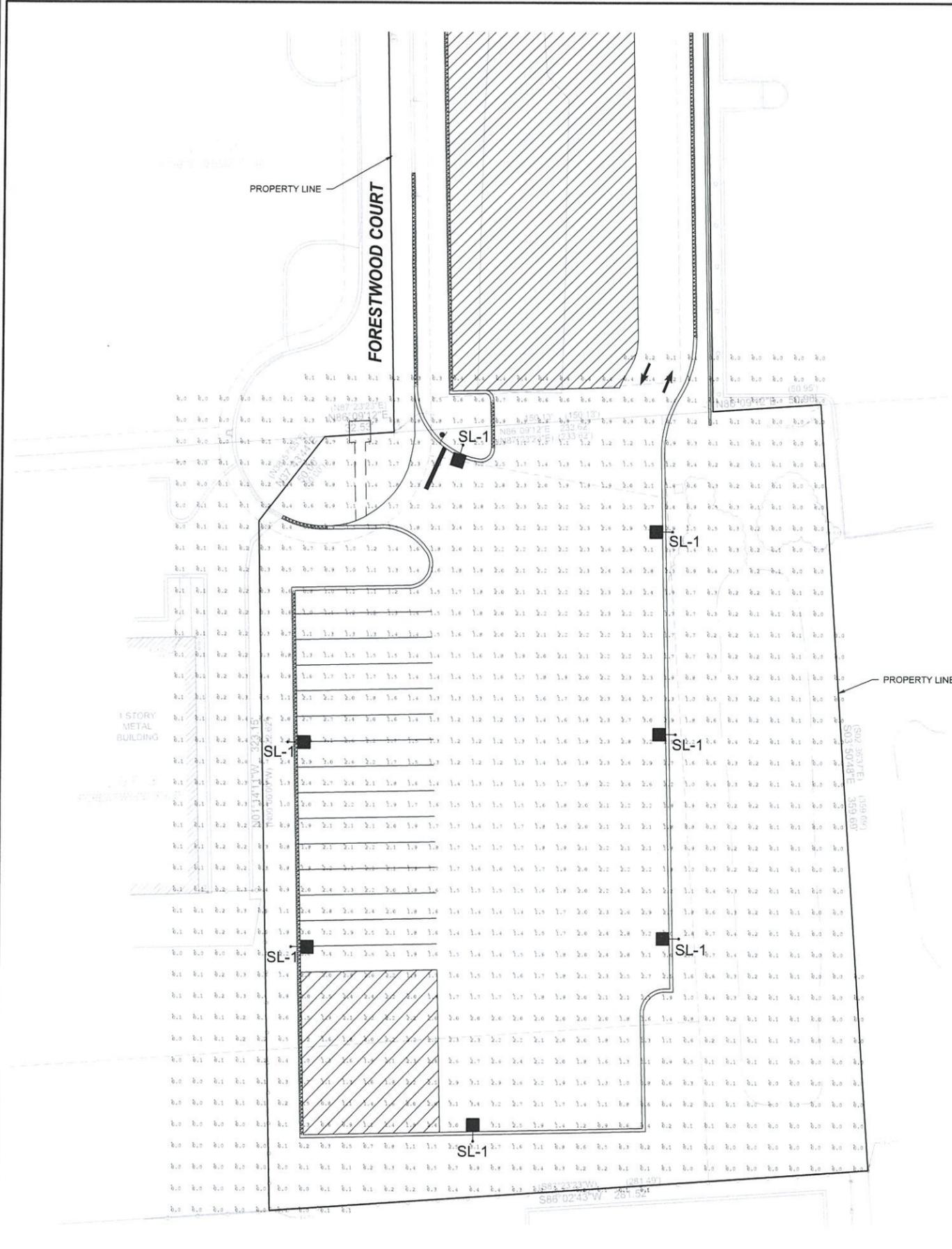


PROJECT NO.	220929	ORIGINAL ISSUE DATE:	05-XX-2024
PROJECT MANAGER:	SAK	NO.	DATE
DESIGNED BY:	KC	DESCRIPTION	REVISIONS
DRAWN BY:	NRS		

PHOTOMETRIC PLAN - NORTH  
 35 FORESTWOOD DRIVE - ROMEOVILLE  
 ROMEOVILLE ILLINOIS

7325 James Avenue  
 Woodridge, IL 60517  
 630.724.3200 phone  
 www.v3co.com

DRAWING NO.  
**P1.1**



### D-Series Size 2 LED Area Luminaire

**Specifications**

- EPA: 1.06 ft<sup>2</sup> (0.10 m<sup>2</sup>)
- Length: 40.59" (103.1 cm)
- Width: 16.76" (42.6 cm)
- Height H1: 8.11" (20.6 cm)
- Height H2: 3.96" (10.1 cm)
- Weight: 46 lbs (20.9 kg)

**Introduction**

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 100W HID and expected service life of over 100,000 hours.

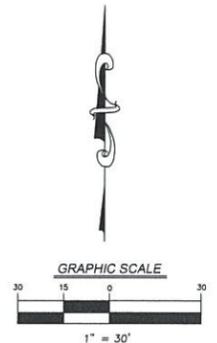
**Ordering Information** EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBXD

Series	Options	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX2 LED	Forward optics (this section 70CRI only)	30K 3000K	70CRI	AFR Automatic front row	MVOLT (120V-277V)	Shipped included
	Rotated optics (this section 80CRI only, extended lead times apply)	40K 4000K	80CRI	T15 Type I short	120V (120V-480V)	SPA Square pole mounting (8" drilling)
		50K 5000K	80CRI	T24 Type II medium	208V (208V-480V)	SPA Square pole mounting (8" drilling)
		60K 6000K	80CRI	T34 Type III medium	240V (240V-480V)	SPA Square pole mounting (8" drilling)
		70K 7000K	80CRI	T44 Type IV medium	277V (277V-480V)	SPA Square pole mounting (8" drilling)
		80K 8000K	80CRI	T54 Type V medium	347V (347V-480V)	SPA Square pole mounting (8" drilling)
		90K 9000K	80CRI	T64 Type VI medium	480V (480V-480V)	SPA Square pole mounting (8" drilling)
		100K 10000K	80CRI	T74 Type VII medium		SPA Square pole mounting (8" drilling)
		110K 11000K	80CRI	T84 Type VIII medium		SPA Square pole mounting (8" drilling)
		120K 12000K	80CRI	T94 Type IX medium		SPA Square pole mounting (8" drilling)
		130K 13000K	80CRI	T04 Type X medium		SPA Square pole mounting (8" drilling)
		140K 14000K	80CRI	T14 Type XI medium		SPA Square pole mounting (8" drilling)
		150K 15000K	80CRI	T24 Type XII medium		SPA Square pole mounting (8" drilling)
		160K 16000K	80CRI	T34 Type XIII medium		SPA Square pole mounting (8" drilling)
		170K 17000K	80CRI	T44 Type XIV medium		SPA Square pole mounting (8" drilling)
		180K 18000K	80CRI	T54 Type XV medium		SPA Square pole mounting (8" drilling)
		190K 19000K	80CRI	T64 Type XVI medium		SPA Square pole mounting (8" drilling)
		200K 20000K	80CRI	T74 Type XVII medium		SPA Square pole mounting (8" drilling)
		210K 21000K	80CRI	T84 Type XVIII medium		SPA Square pole mounting (8" drilling)
		220K 22000K	80CRI	T94 Type XIX medium		SPA Square pole mounting (8" drilling)
		230K 23000K	80CRI	T04 Type XX medium		SPA Square pole mounting (8" drilling)
		240K 24000K	80CRI	T14 Type XXI medium		SPA Square pole mounting (8" drilling)
		250K 25000K	80CRI	T24 Type XXII medium		SPA Square pole mounting (8" drilling)
		260K 26000K	80CRI	T34 Type XXIII medium		SPA Square pole mounting (8" drilling)
		270K 27000K	80CRI	T44 Type XXIV medium		SPA Square pole mounting (8" drilling)
		280K 28000K	80CRI	T54 Type XXV medium		SPA Square pole mounting (8" drilling)
		290K 29000K	80CRI	T64 Type XXVI medium		SPA Square pole mounting (8" drilling)
		300K 30000K	80CRI	T74 Type XXVII medium		SPA Square pole mounting (8" drilling)
		310K 31000K	80CRI	T84 Type XXVIII medium		SPA Square pole mounting (8" drilling)
		320K 32000K	80CRI	T94 Type XXIX medium		SPA Square pole mounting (8" drilling)
		330K 33000K	80CRI	T04 Type XXX medium		SPA Square pole mounting (8" drilling)
		340K 34000K	80CRI	T14 Type XXXI medium		SPA Square pole mounting (8" drilling)
		350K 35000K	80CRI	T24 Type XXXII medium		SPA Square pole mounting (8" drilling)
		360K 36000K	80CRI	T34 Type XXXIII medium		SPA Square pole mounting (8" drilling)
		370K 37000K	80CRI	T44 Type XXXIV medium		SPA Square pole mounting (8" drilling)
		380K 38000K	80CRI	T54 Type XXXV medium		SPA Square pole mounting (8" drilling)
		390K 39000K	80CRI	T64 Type XXXVI medium		SPA Square pole mounting (8" drilling)
		400K 40000K	80CRI	T74 Type XXXVII medium		SPA Square pole mounting (8" drilling)
		410K 41000K	80CRI	T84 Type XXXVIII medium		SPA Square pole mounting (8" drilling)
		420K 42000K	80CRI	T94 Type XXXIX medium		SPA Square pole mounting (8" drilling)
		430K 43000K	80CRI	T04 Type XL medium		SPA Square pole mounting (8" drilling)
		440K 44000K	80CRI	T14 Type XLI medium		SPA Square pole mounting (8" drilling)
		450K 45000K	80CRI	T24 Type XLII medium		SPA Square pole mounting (8" drilling)
		460K 46000K	80CRI	T34 Type XLIII medium		SPA Square pole mounting (8" drilling)
		470K 47000K	80CRI	T44 Type XLIV medium		SPA Square pole mounting (8" drilling)
		480K 48000K	80CRI	T54 Type XLV medium		SPA Square pole mounting (8" drilling)
		490K 49000K	80CRI	T64 Type XLVI medium		SPA Square pole mounting (8" drilling)
		500K 50000K	80CRI	T74 Type XLVII medium		SPA Square pole mounting (8" drilling)

SYMBOL	DESCRIPTION	QUANTITY	LLF	COLOR	MOUNTING	CONFIG.	CATALOG NO. & NOTES
SL-1	LITHONIA LIGHTING, D-SERIES SIZE 2 LED AREA LIGHT, LUMINAIRE POWER PACKAGE P2, 179W, TYPE FORWARD THROW MEDIUM DISTRIBUTION WITH HOUSESIDE SHIELD	7	0.90	4000K	25'-0" POLE ON 3'-0" CONCRETE FOUNDATION, 28'-0" MOUNTING HEIGHT	1 FIXTURE	DSX2-LED-P2-40K-70CRI-TFTM-MVOLT-HS

	AVERAGE	MAX	MIN	AVG/MIN	MAX/MIN
35 FORESTWOOD SOUTH LOT	1.96	3.4	0.4	4.90	8.50

- NOTES:
- THE LIGHT POLE LOCATIONS ON THIS PLAN SHOW THE RECOMMENDED PLACEMENT. ADJUSTMENTS TO THESE LOCATIONS MAY BE REQUIRED TO ACCOMMODATE SITE CONDITIONS.
  - PAVEMENT CALCULATION AREAS ARE TAKEN WITHIN THE LIMITS OF PAVEMENT AREAS IDENTIFIED ON THIS PLAN.
  - THE PHOTOMETRIC PLAN WAS PREPARED CONSIDERING THE FIXTURES IN THE SCHEDULE ON THIS SHEET.



PHOTOMETRIC PLAN - SOUTH

35 FORESTWOOD DRIVE - ROMEOVILLE

ROMEOVILLE ILLINOIS

PROJECT NO: 220929

PROJECT MANAGER: SAK

DESIGNED BY: MJR

DRAWN BY: AM

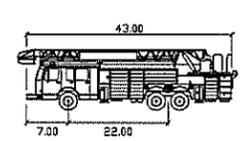
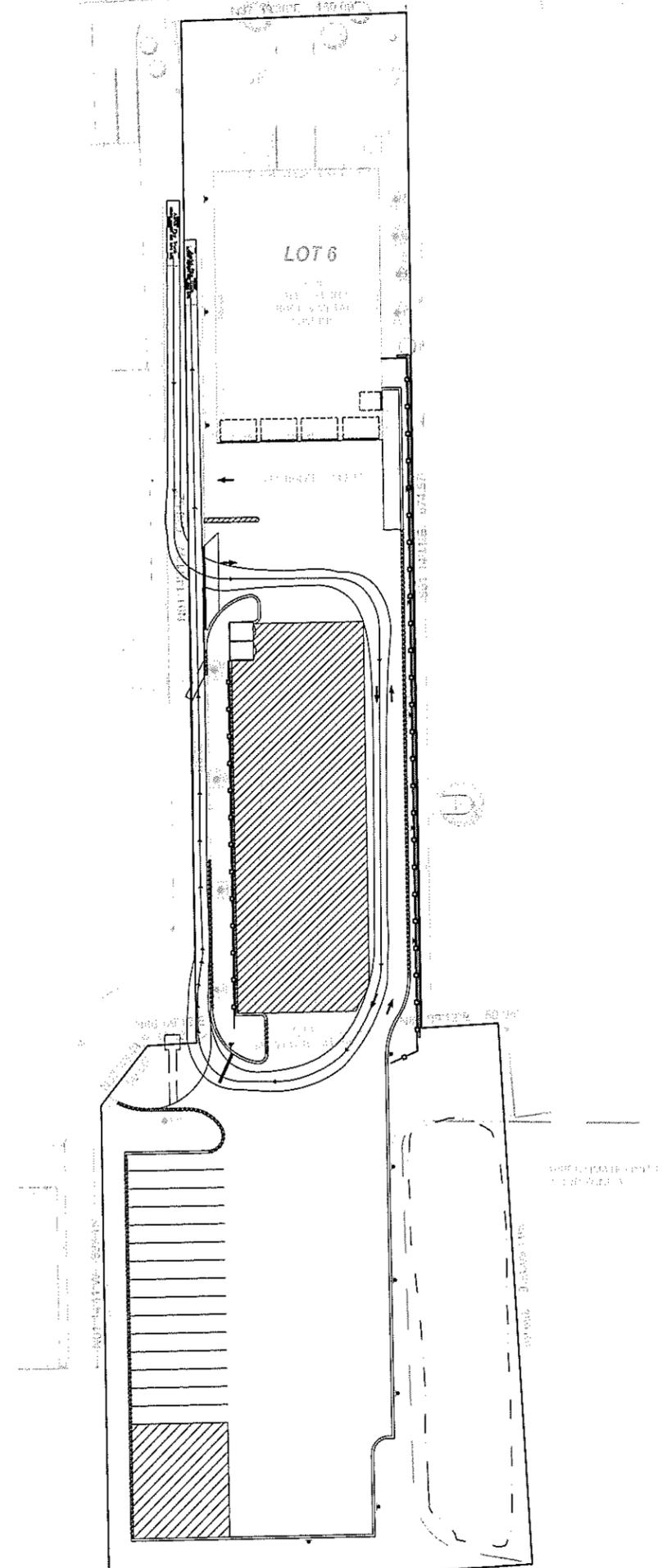
ORIGINAL ISSUE DATE: 05-XX-2024

REVISIONS

NO.	DATE	DESCRIPTION

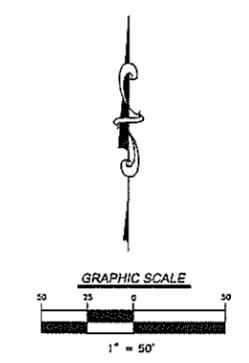
7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com

DRAWING NO. **P1.2**



Aerial Fire Truck

Width	8.50	feet
Track	8.50	
Lock to Lock Time	6.0	
Steering Angle	33.3	



<b>PROJECT NO.</b> 220929 <b>PROJECT MANAGER</b> SAK <b>DESIGNED BY</b> KC <b>DRAWN BY</b> NRS		<b>ORIGINAL ISSUE DATE:</b> 07-26-2024	
<b>FIRE TRUCK TURN EXHIBIT</b>		<b>REVISIONS</b>	
<b>35 FORESTWOOD DRIVE - ROMEOVILLE</b> ROMEOVILLE ILLINOIS		<b>NO.</b> 1 2	<b>DATE</b> 11-04-24 05-30-25
7325 James Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com		<b>DESCRIPTION</b> REVISED PER VILLAGE COMMENTS REVISED PER VILLAGE COMMENTS	<b>DESCRIPTION</b>
<b>DRAWING NO.</b> <b>EX 2</b>			

**LANDSCAPE REQUIREMENTS:**

REFERENCED FROM THE ROMEVILLE LANDSCAPING AND TREE PRESERVATION REGULATIONS § 159.030 AND THE WILL COUNTY PERIMETER VEHICULAR USE AND LANDSCAPING § 155-12.50

**EAST BOUNDARY: 875 LF**  
 1 LARGE SHADE TREE PER 75 LF: 9 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 85 SHRUBS REQUIRED  
 9 REQUIRED 9 MATURING TREES PROVIDED  
 85 REQUIRED 85 SHRUBS PROVIDED  
 (33 PROPOSED SHRUBS RELOCATED TO SOUTHEAST BOUNDARY DUE TO SPACE CONSTRAINTS)

**SOUTH EAST BOUNDARY: 350 LF**  
 1 LARGE SHADE TREE PER 75 LF: 5 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 46 SHRUBS REQUIRED  
 5 REQUIRED 5 SHADE TREES PROVIDED  
 46 REQUIRED 46 SHRUBS PROVIDED

**SOUTH BOUNDARY: 282 LF**  
 1 LARGE SHADE TREE PER 75 LF: 4 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 36 SHRUBS REQUIRED  
 4 REQUIRED 4 SHADE TREES PROVIDED  
 36 REQUIRED 36 SHRUBS PROVIDED

**WEST BOUNDARY: 675 LF**  
 1 LARGE SHADE TREE PER 75 LF: 9 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 85 SHRUBS REQUIRED  
 9 REQUIRED 9 SHADE TREES PROVIDED  
 85 PROPOSED 85 SHRUBS PROVIDED

**SOUTH WEST BOUNDARY: 352 LF**  
 1 LARGE SHADE TREE PER 75 LF: 5 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 46 SHRUBS REQUIRED  
 5 REQUIRED 5 SHADE TREES PROVIDED  
 46 REQUIRED 46 SHRUBS PROVIDED

**PARKING LOT REQUIREMENTS**  
 1 PARKING ISLAND PER 20 PARKING SPACES: 15 PARKING SPACES = 2 LANDSCAPE ISLANDS  
 1 SHADE TREE PER LANDSCAPE ISLAND  
 2 SHADE TREES REQUIRED 2 SHADE TREES PROVIDED

**PERIMETER PARKING LOT REQUIREMENTS**  
 LANDSCAPING REQUIRED ACROSS NOT LESS THAN 50% OF PARKING LOT ABUTTING PROPERTY LINE  
 OVER 50% OF PERIMETER PARKING LOT LANDSCAPE REQUIRED, OVER 50% PROPOSED

**LEGEND**

- PROPERTY BOUNDARY
- - - EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- (630)--- PROPOSED MAJOR CONTOUR
- (631)--- PROPOSED MINOR CONTOUR
- TREE PROTECTION FENCE
- ⊙ ⊙ ⊙ ⊙ ⊙ PROPOSED STORM STRUCTURE
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE

**LANDSCAPE PLAN NOTES**

1. MULCH TO BE DARK BROWN, FINELY SHREDDED HARDWOOD, INSTALL 3" THICK MINIMUM.
2. ALL PLANTING BEDS TO HAVE MULCH OVER ENTIRE BED.
3. ALL PLANTING BEDS TO BE AMENDED WITH 6" OF COMPOST OVER THE ENTIRE BED.
4. ALL PLANTING BEDS TO HAVE SPADED EDGE, 4" IN DEPTH WITH UNIFORM LINES AND CURVES UNLESS OTHERWISE NOTED.
5. ANY AREAS DISTURBED DUE TO CONSTRUCTION WILL BE RE-SEEDED WITH TURF GRASS UNLESS NOTED OTHERWISE ON THE PLANS.
6. BUILDING FOOTPRINTS BASED ON OWNER PROVIDED INFORMATION. ENGINEER AND LANDSCAPE ARCHITECT ASSUMES NO LIABILITY ASSOCIATED WITH CHANGE IN BUILDING FOOTPRINTS. SURVEYOR SHALL CONFIRM WITH OWNER BUILDING FOOTPRINTS PRIOR TO FIELD STAKING.
7. FOR LIST OF PLANT TYPES, SIZES, SPECIFICATIONS, ETC. SEE SHEET L2.0.
8. FOR LIST OF SEED MIXES, SEE SHEET L2.0.

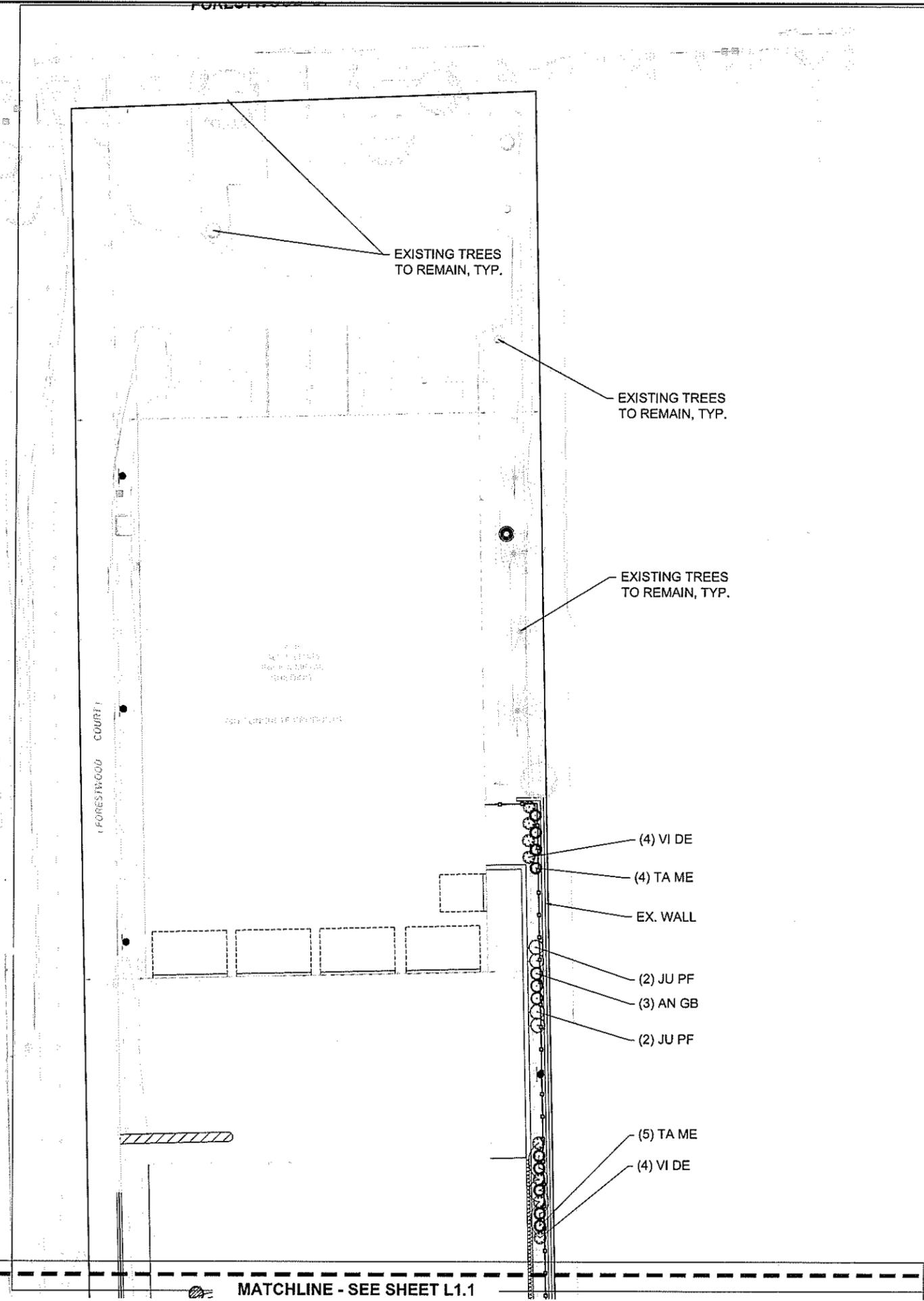
REVISITONS		DESCRIPTION
NO.	DATE	
1	11-04-24	REVISED PER VILLAGE COMMENTS
2	05-30-25	REVISED PER VILLAGE COMMENTS

**LANDSCAPE PLAN NORTH**  
 35 FORESTWOOD DRIVE - ROMEVILLE  
 ILLINOIS  
 PHASE

7325 James Avenue  
 Woodridge, IL 60517  
 630.724.9200 phone  
 www.v3co.com

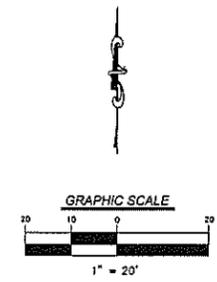
**V3**

DRAWING NO.  
**L1.0**



Call Before You Dig  
**JULIE**  
 800.892.0123  
 Call 48 hours before you dig

Joint Utility Locating Information for Excavators



MATCHLINE - SEE SHEET L1.1



**LANDSCAPE REQUIREMENTS:**

REFERENCED FROM THE ROMEOVILLE LANDSCAPING AND TREE PRESERVATION REGULATIONS § 159.030 AND THE WILL COUNTY PERIMETER VEHICULAR USE AND LANDSCAPING § 155-12.50

EAST BOUNDARY: 679 LF  
 1 LARGE MATURING TREE PER 75 LF: 9 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 85 SHRUBS REQUIRED  
 9 REQUIRED 9 MATURING TREES PROVIDED  
 85 REQUIRED 85 SHRUBS PROVIDED

SOUTH EAST BOUNDARY: 360 LF  
 1 LARGE MATURING TREE PER 75 LF: 5 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 45 SHRUBS REQUIRED  
 5 REQUIRED 5 MATURING TREES PROVIDED  
 45 REQUIRED 45 SHRUBS PROVIDED

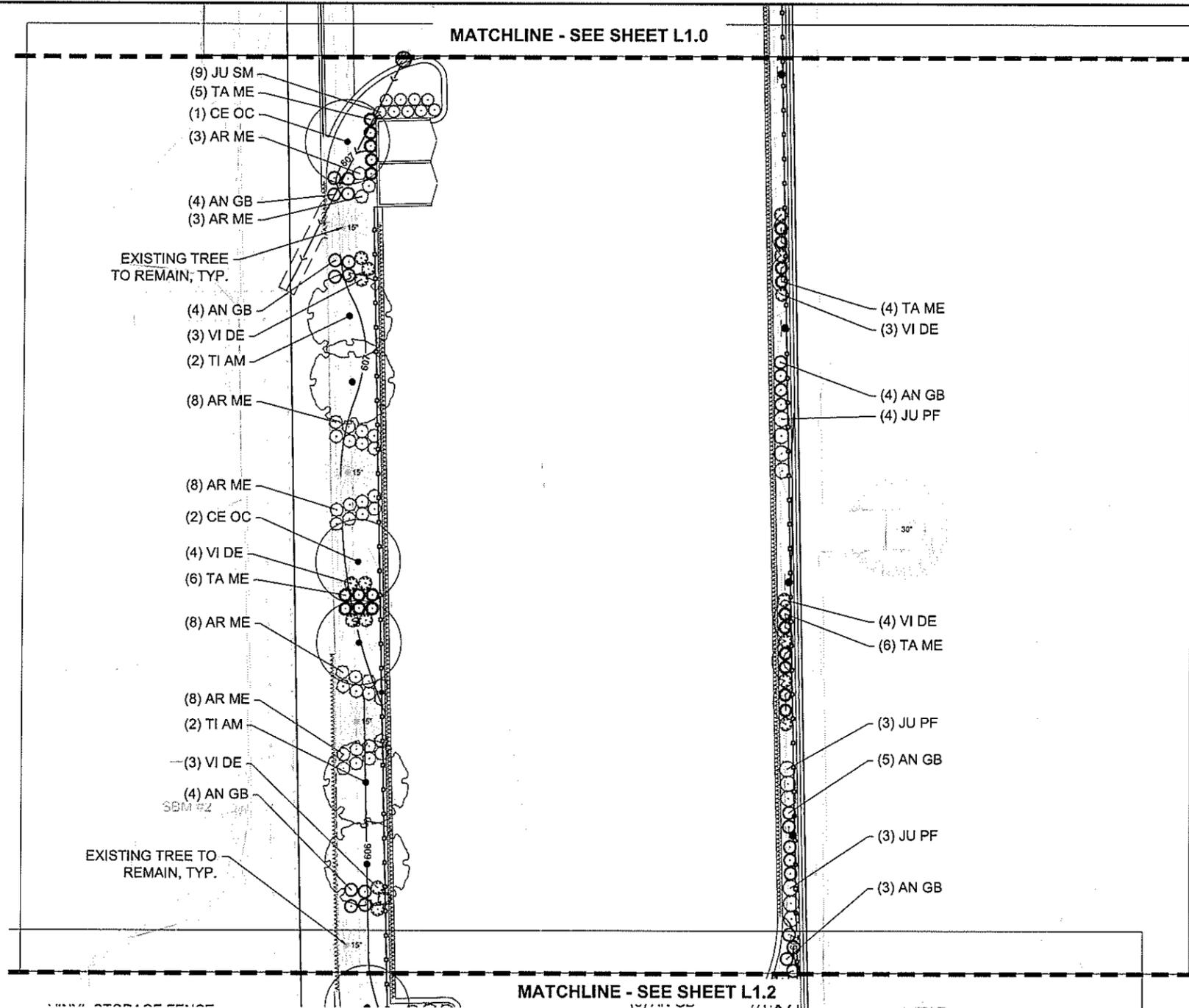
SOUTH BOUNDARY: 282 LF  
 1 LARGE MATURING TREE PER 75 LF: 4 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 36 SHRUBS REQUIRED  
 4 REQUIRED 4 MATURING TREES PROVIDED  
 36 REQUIRED 36 SHRUBS PROVIDED

SOUTH WEST BOUNDARY: 350 LF  
 1 LARGE MATURING TREE PER 75 LF: 5 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 45 SHRUBS REQUIRED  
 5 REQUIRED 5 MATURING TREES PROVIDED  
 45 REQUIRED 45 SHRUBS PROVIDED

WEST BOUNDARY: 675 LF  
 1 LARGE MATURING TREE PER 75 LF: 9 TOTAL TREES REQUIRED  
 1 SHRUB PER 8 LF: 85 SHRUBS REQUIRED  
 9 REQUIRED 9 MATURING TREES PROVIDED  
 85 PROPOSED 85 SHRUBS PROVIDED

PARKING LOT REQUIREMENTS  
 1 PARKING ISLAND PER 20 PARKING SPACES: 15 PARKING SPACES = 2 LANDSCAPE ISLANDS  
 1 SHADE TREE PER LANDSCAPE ISLAND  
 2 SHADE TREES REQUIRED 2 SHADE TREES PROVIDED

PERIMETER PARKING LOT REQUIREMENTS  
 LANDSCAPING REQUIRED ACROSS NOT LESS THAN 50% OF PARKING LOT ADJUTING PROPERTY LINE  
 OVER 50% OF PERIMETER PARKING LOT LANDSCAPE REQUIRED, OVER 50% PROPOSED



**LEGEND**

- PROPERTY BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- TREE PROTECTION FENCE
- ☉ ☪ ☐ ☑ PROPOSED STORM STRUCTURE
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE

**LANDSCAPE PLAN NOTES**

1. MULCH TO BE DARK BROWN, FINELY SHREDDED HARDWOOD. INSTALL 3" THICK MINIMUM.
2. ALL PLANTING BEDS TO HAVE MULCH OVER ENTIRE BED.
3. ALL PLANTING BEDS TO BE AMENDED WITH 6" OF COMPOST OVER THE ENTIRE BED.
4. ALL PLANTING BEDS TO HAVE SPADED EDGE, 4" IN DEPTH WITH UNIFORM LINES AND CURVES UNLESS OTHERWISE NOTED.
5. ANY AREAS DISTURBED DUE TO CONSTRUCTION WILL BE RE-SEEDDED WITH TURF GRASS UNLESS NOTED OTHERWISE ON THE PLANS.
6. BUILDING FOOTPRINTS BASED ON OWNER PROVIDED INFORMATION. ENGINEER AND LANDSCAPE ARCHITECT ASSUMES NO LIABILITY ASSOCIATED WITH CHANGE IN BUILDING FOOTPRINTS. SURVEYOR SHALL CONFIRM WITH OWNER BUILDING FOOTPRINTS PRIOR TO FIELD STAKING.
7. FOR LIST OF PLANT TYPES, SIZES, SPECIFICATIONS, ETC. SEE SHEET L2.0.
8. FOR LIST OF SEED MIXES, SEE SHEET L2.0.

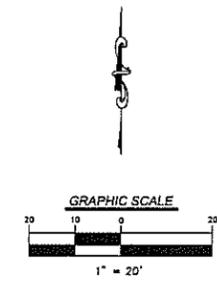
REVISIONS		DESCRIPTION	NO.	DATE

PROJECT NO.	220020	ORIGINAL ISSUE DATE:	07-26-2024
PROJECT MANAGER	SAK	NO. 1 DATE	11-04-24
DESIGNED BY	KC	REVISION PER VILLAGE COMMENTS	1
DRAWN BY	ACT	REVISION PER VILLAGE COMMENTS	2

LANDSCAPE PLAN CENTER  
 35 FORESTWOOD DRIVE - ROMEOVILLE  
 ROMEOVILLE ILLINOIS PHASE

Call Before You Dig  
**JULIE**  
 800.892.0123  
 Call 48 hours before you dig

Joint Utility Locating Information for Excavators

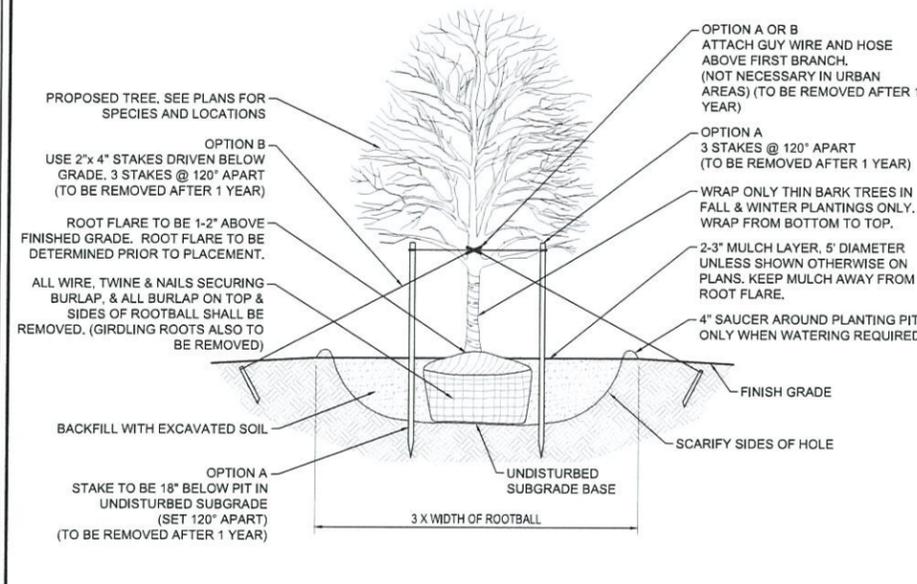


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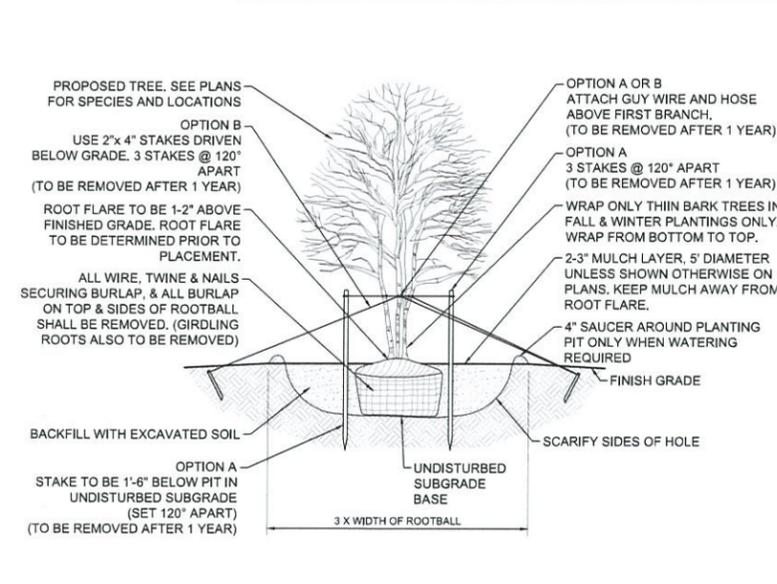


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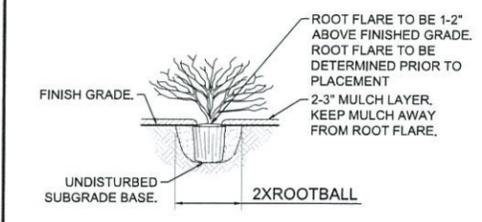
**L1.1**



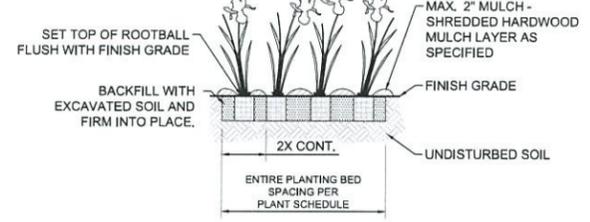
01 SHADE TREE PLANTING DETAIL  
SCALE: 1/4" = 1'-0"



04 SHADE TREE PLANTING ON SLOPE DETAIL  
SCALE: 1/4" = 1'-0"



02 SHRUB PLANTING DETAIL  
SCALE: 1/4" = 1'-0"



05 PERENNIAL & ORNAMENTAL GRASS PLANTING DETAIL  
SCALE: 1/2" = 1'-0"

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CAL	HT
<b>TREES</b>							
	CE OC	10	CELTIS OCCIDENTALIS	COMMON HACKBERRY	B & B	2.5" MIN.	
	GY DI	11	GYMNOCLADUS DIOICUS	KENTUCKY COFFEETREE	B & B	2.5" MIN.	
	LI TU	4	LIRIODENDRON TULIPIFERA	TULIP TREE	B & B	2.5" MIN.	
	TI AM	9	TILIA AMERICANA	AMERICAN LINDEN	B & B	2.5" MIN.	
<b>SHRUBS</b>							
	AN GB	58	ANDROPOGON GERARDII	BIG BLUESTEM	CONT.		24" MIN.
	AR ME	47	ARONIA MELANOCARPA	BLACK CHOKEBERRY	CONT.		24" MIN.
	JU PF	55	JUNIPERUS CHINENSIS 'SEA GREEN'	SEA GREEN JUNIPER	CONT.		30" MIN.
	JU SM	9	JUNIPERUS SCOPULORUM 'MOONGLOW'	MOONGLOW JUNIPER	CONT.		6" MIN.
	TA ME	65	TAXUS X MEDIA	COMMON YEWE	CONT.		24" MIN.
	VI DE	65	VIBURNUM DENTATUM 'ARROWWOOD'	ARROWWOOD VIBURNUM	CONT.		24" MIN.

03 PLANT SCHEDULE  
SCALE: NTS

PERMANENT TURF GRASS SEED MIX	
TYPE OF SEED - GRASSES	LARGER
80% Turf-Type Tall Fescue ( <i>Festuca arundinacea</i> ) - Choose 3 of the following varieties	New Establishment
Bravo 2Kingdom	6-8 lbs./1,000 SF
Padre/2Restore	
Stetson Tango	
20% Turf-Type Perennial Ryegrass ( <i>Lolium perenne</i> ) - Choose 1 of the following varieties	Renovation
Align/2 ProLine	20-50% Existing Cover: 5-7 lbs./1,000 SF
Prosport 4	75% Existing Cover: 4-6 lbs./1,000 SF
COVER CROP TURF GRASS SEED MIX	
Seed Oats ( <i>Avena sativa</i> )	SEEDING RATES
Annual Rye ( <i>Lolium multiflorum</i> )	32 lbs./ACRE
	6 lbs./ACRE

- NOTES:
- ANY AREAS DISTURBED DUE TO CONSTRUCTION WILL BE RE-SEEDING WITH TURF GRASS UNLESS NOTED OTHERWISE ON THE PLANS.
  - PROPER SEED BED PREPARATION IS NECESSARY TO ESTABLISH TURF GRASS. SEE LANDSCAPE SPECIFICATIONS FOR ADDITIONAL DETAILS.
  - IRRIGATION AND/OR STARTER MULCH IS RECOMMENDED FOR MAXIMUM SEED GERMINATION.

07 GRASS SEED MIXES & RATES

- SCALE: NTS
- IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
  - NO SUBSTITUTIONS OF PLANT MATERIALS WILL BE ALLOWED. IF PLANTS ARE NOT AVAILABLE, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BID IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT I.D. AT NURSERY OR CONTRACTORS OPERATIONS PRIOR TO MOVING TO JOB SITE. PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE BY THE LANDSCAPE ARCHITECT.
  - ALL PLANTS SHALL MEET OR EXCEED THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK, AS SET FORTH BY AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
  - PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION OPERATIONS AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
  - ALL LANDSCAPE PLANTINGS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT THE END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE CONTRACTOR.
  - THE LANDSCAPE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR THEIR PORTION OF WORK.
  - LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO BID DATE OF ANY PLANTS THEY FEEL MAY NOT SURVIVE IN LOCATIONS NOTED ON PLANS.
  - BACKFILL FOR TREE PLANTING SHALL BE NATIVE SOIL FROM TREE PIT AND INCORPORATE A 5-10-5 ANALYSIS SLOW-RELEASE FERTILIZER AT APPROVED RATES.
  - AN APPROVED PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING BEDS AT A RATE SPECIFIED BY MANUFACTURER FOR EACH PLANT VARIETY.
  - TREE STAKING IS NOT REQUIRED AS PART OF INITIAL PLANTING. HOWEVER, STAKING WILL BE REQUIRED TO MAINTAIN ANY TREES WHICH BECOME OUT OF PLUMB.
  - LANDSCAPE CONTRACTOR IS TO COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE RISK OF DAMAGE TO SITE UTILITIES.
  - PRIOR TO THE INSTALLATION OF LANDSCAPING, LANDSCAPE CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CONSTRUCTION MANAGER, AND ANY OTHER AFFECTED PARTY TO DISCUSS PROPER SEPARATIONS FROM UTILITIES.
  - A MINIMUM OF TEN (10) FOOT HORIZONTAL DISTANCE FROM LATERALS OR ANY OTHER SANITARY OR STORM SEWER FACILITIES (AS MEASURED FROM THE DRIP LINE OF THE MATURE TREE TO THE CENTER OF SEWER FACILITIES) MUST BE MAINTAINED. ANY TREES OR LANDSCAPING PLACED WITHIN EASEMENTS OR RIGHTS-OF-WAY ARE AT RISK OF BEING DAMAGED OR REMOVED WITHOUT THE OBLIGATION OF REPLACEMENT.
  - THE TOE OF SLOPE OF EARTHEN MOUNDING CAN NOT BE PLACED WITHIN TEN (10) FEET HORIZONTAL DISTANCE OF SANITARY SEWER MAINS, LATERALS, OR MANHOLES.
  - RETAINING/DECORATIVE/ENTRANCE WALLS CAN NOT BE PLACED WITHIN TEN (10) FEET HORIZONTAL DISTANCE OF SANITARY SEWER MAINS, LATERALS, OR MANHOLES.

08 LANDSCAPE CONSTRUCTION NOTES

SCALE: NTS

**Privacy Fence**

Includes: Galveston  
Galveston with CertaGrain® Texture

**A** TOP RAIL PALLET QUANTITY = 80  
2" x 6" x 95" rail ribbed.  
Includes steel channel.

**B** PICKETS PALLET QUANTITY = 12 Fill Kits  
26 pieces of 7/8" x 7" x 42-1/4"  
Section includes 26 pickets.

**C** MIDDLE RAIL PALLET QUANTITY = 80  
2" x 6" x 95" rail ribbed.  
Includes steel channel.

**D** END CHANNEL

**E** BOTTOM RAIL PALLET QUANTITY = 80  
2" x 6" x 95" rail ribbed.  
Includes steel channel.

**F** POST PALLET QUANTITY = 48  
5" x 5" x 132"

• New post centers for 2013  
• Fence Fill Kit no longer includes picket with tongue removed

**POST SUPPORT OPTIONS:**

• FILL WITH ONE AND CONCRETE POSTS WITH CONCRETE TO 1/2" BELOW TOP RAIL.

• USE 2" PICKETS OF 1/2" RAIL IN EACH POST. LENGTH OF PICKETS SHOULD EXTEND FROM BOTTOM OF HOLE TO 4" BELOW BOTTOM RAIL.

• LENGTH OF ALUMINUM RAIL SHOULD BE THE SAME AS LENGTH OF PICKETS FOR A PROPER FIT.

• USE POST STUBS OR ALUMINUM POSTS.

Contact Us

Shipping is available in the USA, Canada, Virgin Islands, & Mexico  
To speak with a Customer Representative call today:

**800-878-7829**

For additional information contact us:  
Discount Fence Supply, Inc.  
8500 Hadden Road.  
Twinsburg OH, 44087  
Phone: (800) 878-7829  
Fax: (330) 650-9004  
Email: [Sales@DiscountFence.com](mailto:Sales@DiscountFence.com)

08 VINYL STORAGE FENCE  
SCALE: NTS

REVISIONS		DESCRIPTION	NO.	DATE
1	11-04-24	REVISED PER VILLAGE COMMENTS		
2	05-30-25	REVISED PER VILLAGE COMMENTS		

PROJECT NO: 220829  
PROJECT MANAGER: SAK  
DESIGNED BY: KC  
DRAWN BY: NRS

LANDSCAPE DETAILS  
 35 FORESTWOOD DRIVE - ROMEVILLE  
 ROMEVILLE  
 PHASE  
 ILLINOIS

7325 Janes Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
www.v3co.com

DRAWING NO.  
**L2.0**

**STORMWATER MANAGEMENT AREAS & LANDSCAPE SPECIFICATIONS**

**1.1 SITE PREPARATION**

When feasible, prior to mass earthwork operations, stake the limits of the proposed stormwater management areas & landscape planting areas and do not allow heavy equipment to run over the soil in these locations. Soil compaction is very critical in the functioning of stormwater management areas.

Do not clear vegetation until necessary to help minimize site erosion.

Place tree protection barriers around the drip line of all trees that are to remain. There shall be no storage of materials, heavy equipment or vehicles within the drip line of trees.

**1.2 MATERIALS**

**1.2.1 SUBMITTAL REQUIREMENTS**

Contractors shall submit to engineer/landscape architect for review and approval all proposed materials to be used within the stormwater management areas and landscape areas prior to purchase. Submittals include but are not limited to:

- Planting soil composition
- Compost/Mulch
- River Cobble
- Turf Grass Sod and Seed
- Plant Lists (Woody and herbaceous materials)
- Herbicides and Pre-Emergent Herbicides

**1.2.2 PLANTING SOIL**

The soil shall be a uniform, well blended mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the bio-retention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The soil mix shall be free of Bermuda grass, Quack grass, Johnson grass, or other noxious weeds. The planting soil for bio-retention facilities shall consist of a mixture of sand or crushed glass cullet of equivalent grade, topsoil, and compost components, to obtain an engineered soil mix meeting the following specifications:

USDA Texture class: sandy loam or loamy sand. Mineral fraction consists of no less than 40% well-graded sand or glass cullet and no greater than 10% clay (dry weight basis)  
 Organic content: 20% (dry weight basis)  
 pH: 5.5 - 7.0  
 Soluble Salts (Salinity): less than 500 mg/kg (500ppm)  
 Phosphorous: soil p-index should be between 15 and 40  
 Permeability: Minimum 0.50 inches/hour

Volumetric proportions of the components making up the bio-retention soil mix shall be as follows:

- Sand: 50% by volume
- Compost: 20% by volume
- Topsoil: 30% by volume

Compost shall be finished (aged), and composed material shall be of plant origin. Compost shall have a C:N ratio ≤ 25:1.

If the planting soil does not meet the above characteristics, then it shall either be adjusted to meet the criteria or removed and replaced with an acceptable planting soil. See 1.3 Testing Requirements.

Existing topsoil on site may be amended to meet the specifications of the planting soil mix. The existing topsoil shall be tested for organic content, grain size analysis and permeability to identify necessary amendments.

Planting soil shall not be incorporated into the Work until it is approved by the engineer/landscape architect.

**1.2.3 MULCH MATERIAL**

A mulch layer shall be provided on top of the planting areas, to the depth OF 2-3 inches. The material shall consist of finished (aged) leaf compost mulch, and shall be well mixed and homogeneous, uniform in color and free of foreign material and viable plant seeds. The mulch material shall have no visible free water and produce no dust when handled. It shall meet the following criteria:  
 90% of material passing 1/2" screen  
 Organic content: 35- 65% (dry weight basis)  
 pH: 6.0 - 8.0

**1.2.4 TURF GRASS SOD AND SEED**

**1.2.4.1 TURF GRASS SOD**

See plans for locations. Turf grass sod shall be a mixture within the following ranges:  
 Kentucky Bluegrass: 50-100%  
 Fine Fescue: 0-30%  
 Turf Type or Rhizomatous Tall Fescue: 50-100%  
 Turf grass sod shall be of good quality, free of weeds, disease and insects and of good color and density. Turf grass sod shall be machine-cut at a minimum uniform soil thickness and grown in central Indiana.

**1.2.4.2 TURF GRASS SEED / COVER CROP**

See plans for seed mixture(s) and rate(s). No substitutions shall be allowed without approval from the ecological consultant.

Seed shall be clean, delivered in original unopened packages, and bearing an analysis of the contents. Guaranteed 98 percent pure and to have a minimum germination rate of 90 percent; within 1 year of test.

Temporary cover shall be Seed Oats (Avena sativa) and annual ryegrass (Lolium multiflorum). Under no circumstances shall the site be stabilized with winter rye, grain rye, or winter wheat. These plants produce toxins that inhibit prairie seed germination.

**1.2.5 LIVE PLANT MATERIAL**

**1.2.5.1 TREES & SHRUBS**

General: Furnish nursery-grown plants true to genus, species, variety, cultivar, stem form, shearing, and other features indicated in Plant Schedule or Plant Legend shown on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, fully branched, healthy, vigorous stock, densely foliated when in leaf and free of disease, pests, eggs, larvae, and defects such as knots, sun scald, injuries, abrasions, and discoloration.

Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which shall begin at root flare according to ANSI Z60.1. Root flare shall be visible before planting.

No bare root material shall be used unless specified on the plans.

Containerized Plant Material: Provide healthy, disease-free plants of species and variety shown or listed, with well-established root systems reaching to sides of the container to maintain a firm ball, but not with excessive root growth encircling the container. Provide only plants that are acclimated to outdoor conditions before delivery.

Plant material and quantities for stormwater management areas and landscape areas shall be taken from the plans. Any plant material substitutions shall require approval from the engineer/landscape architect.

**1.2.5.2 LIVE PLANTS**

See plans for approved herbaceous plant lists. All native plants must be of wild ecotype. No hybrids, cultivars or substitution may be included without approval from the engineer/landscape architect. Local genotypes are adapted to local soil and climate conditions and shall be used whenever possible.

**1.2.6 HERBICIDES AND PRE-EMERGENTS**

Herbicide to be used in stormwater management areas consist of glyphosate herbicides approved for use around water, such as Rodeo.

**1.3 TESTING REQUIREMENTS**

**1.3.1 PLANTING SOIL TESTING**

Soil tests shall be performed for every 500 cubic yards of planting soil, with the exception of pH and organic content tests, which are required only once per stormwater management BMP.

The planting soil shall be tested and shall meet the following criteria:

- pH range: 6.5 - 7.0
- organic matter: 5 - 10% (dry weight basis)
- magnesium: minimum 35 lbs/acre
- phosphorus (phosphate - P2O5, Bray I): shall not exceed 75 lbs./acre
- potassium (potash - K2O): minimum 65 lbs/acre
- soluble salts not to exceed 500 ppm

All stormwater management areas shall have a minimum of one test per bioretention basin and a minimum of one soil test per 500 cubic yards. Each test shall consist of both the standard soil test for pH, phosphorus, and potassium and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the top soil was excavated. Should the pH fall out of the acceptable range by no greater than 0.2, it may be modified (higher) with lime or (lower) with iron sulfate plus sulfur.

**1.4 INSTALLATION**

**1.4.1 PLANTING SOIL**

Installation of soils must be completed in a manner that will ensure preservation of the infiltrative capacity of the underlying soils. The moisture content of the soil shall be low enough to prevent dumping and compaction during placement.

To prevent compaction within the limits of the basins, only hand laborers, small excavation hoses with wide tracks, light equipment with turf tires, marsh equipment or wide-track loaders may be used. No heavy equipment shall be used within the perimeter of the stormwater management BMP facility before, during, or after the placement of the planting soil.

It is very important to minimize compaction of both the base (in-situ soil) of the stormwater management areas and the required backfill. Re-tracture sub-grade soils that have been compacted or smeared by raking, diskling or tilling to a minimum depth of 12 inches. Soil surfaces shall be scarified by manually raking to aerate and reduce soil compaction. Soil shall be placed in 6 inch loose depth lifts. Lifts are performed in order to reduce the possibility of excessive settlement. Soil shall be Eghly hand-lamped or compacted with a water-filled landscape roller, to reduce potential for excessive settling. No other mechanical equipment shall be used to compact the planting soil or underlying soils. Lifts may also be watered to encourage natural compaction. Overfill to allow for natural settlement.

Uniformly grade planting soil to achieve a smooth surface, free of irregular surface changes. Do not over-work or excessively compact planting soil. Grade to cross sections, thickness and elevations indicated on plans. Settling of soil by walking on surface and walking with hand equipment is acceptable.

**1.4.2 TURF GRASS**

**1.4.2.1 SEQUENCING AND SCHEDULING**

Turf grass shall be installed following final grading activities and all other planting installations.

**1.4.2.2 SITE PREPARATION**

Verify the depth and quality of the topsoil and that the topsoil has been placed according to specifications or exists as a current site condition.

Restore areas if eroded or otherwise disturbed after finish grading and before installation. Proceed with installation only after unsatisfactory conditions have been corrected.

All weeds and grasses shall be dug out by the roots and disposed of off-site.

Rake so all areas drain and are of uniform slope.

Remove all trash and stones exceeding 1/2" in diameter from area to a depth of 2" prior to preparation and installation of sod. Removal of stones and debris shall be done at the time of installation. Repair topsoil disturbed by removal of stones and debris.

**1.4.2.3 PLANTING**

Turf grass shall be placed on prepared soil that has been watered and is still moist. Turf grass sod shall be laid with light joints, rolled, and thoroughly watered. River water, where available and allowed by federal, state and local authorities, is suitable for irrigation.

When installation occurs on a sloping surface where erosion may be a problem, turf grass sod shall be laid with staggered joints and secured by pegging.

**1.4.3 PERMANENT TURF GRASS SEED**

**1.4.3.1 SEQUENCING AND SCHEDULING**

Perform the seeding work and at such times that the seeding will not be damaged by freezing temperatures, rain, or high winds.

Optimum Seeding Dates:

- Northern Indiana/Illinois: August 15 through September 15
- Southern Indiana/Illinois: September 1 through September 30

Dormant seeding can be done from Thanksgiving through March, when no snow is present, but before the ground has thawed.

Spring seeding is often difficult but is acceptable from April through June if site conditions and construction schedules warrant the need for spring seeding.

Summer seeding should be avoided when possible.

Permanent seeding done between May and August may require irrigation.

**1.4.3.2 SITE PREPARATION**

Verify the depth and quality of the topsoil and that the topsoil has been placed according to specifications or exists as a current site condition. Restore areas if eroded or otherwise disturbed after finish grading and before installation. Proceed with installation only after unsatisfactory conditions have been corrected.

All weeds and grasses shall be dug out by the roots and disposed of off-site.

Rake topsoil thoroughly by running in two directions at right angles over the entire surface to be planted. Rake so all areas drain and are of uniform slope.

Remove all trash and stones exceeding 1/2" in diameter from area to a depth of 2" prior to preparation and installation of sod. Removal of stones and debris shall be done at the time of installation. Repair topsoil disturbed by removal of stones and debris.

**1.4.3.3 PLANTING**

Sow grassed areas evenly with a mechanical spreader at the minimum rate as specified on the plans, roll to cover seed and water with fine spray. Wet soil at a rate of approximately 120 gallons per 1,000 square feet. River water, where available and allowed by federal, state and local authorities, is suitable for irrigation.

Method of seeding may be varied at discretion of Contractor on his own responsibility to establish a smooth, uniformly grassed area.

**1.4.4 TREES, SHRUBS AND VINES**

**1.4.4.1 SEQUENCING AND SCHEDULING**

Planting Time: Proceed with, and complete landscape work as rapidly as portions of site become available, working within seasonal limitations for each kind of landscape work required.

Planting seasons shall be as follows:

Deciduous Trees: Primary Planting Time March 15th to June 30th, and Secondary Planting Time September 1st to December 1st, unless noted otherwise on drawings.

Shrubs: Primary Planting Time March 15th to June 30th, and Secondary Planting Time September 1st to November 1st, unless noted otherwise on drawings.

If weather conditions within these seasons are not favorable to plant health and establishment at the time of planting (e.g. drought), planting shall be delayed until favorable conditions resume or further actions shall be taken to ensure healthy establishment (e.g. irrigation). It is the responsibility of the contractor to ensure survivability during the warranty period.

**1.4.4.2 SITE PREPARATION**

Planting Pits and Trenches: Excavate circular planting pits with sides sloping inward at a 45-degree angle. Excavations with vertical sides are not acceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling. Scarily sides of planting pit smeared or smoothed during excavation.

Excavate approximately two times as wide as ball diameter for shrubs and three times as wide for trees.

Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.

**1.4.4.3 PLANTING**

Before planting, verify that root flare is visible at top of root ball according to ANSI Z60.1. Remove stem girdling, broken or kinked roots. Remove injured roots by cutting cleanly; do not break. Set stock plumb and in center of planting pit or trench with root flare 1-2 inches above adjacent finish grades. To prevent settling of the root ball, root ball should be placed on undisturbed soil only.

Use planting soil as specified in 1.4.2 for backfill.  
 Balled and Burtapped: After placing some backfill around root ball to stabilize plant, carefully cut and remove burlap, rope, and wire baskets from tops of root balls and from sides. Where practical remove burlap, rope and wire baskets from under root balls. Remove pulls, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.  
 Container-Grown: Carefully remove root ball from container without damaging root ball or plant.  
 Fabric Bag-Grown Stock: Carefully remove root ball from fabric bag without damaging root ball or plant. Do not use planting stock if root ball is cracked or broken before or during planting operation.  
 Loosen pot-bound roots and remove or cut any circling and girdling roots.  
 Do not place root ball directly on any underdrain structures. If root ball is larger than soil depth, adjust root ball such that it is adjacent to but not resting on any underdrain structures.  
 Backfill around root ball in layers, tamping to settle soil and eliminate voids and air pockets. When planting pit is approximately one-half filled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed.  
 Continue backfilling process. Water again after placing and tamping final layer of soil.  
 2-3 inches of mulch material (per 1.2.3) to be placed uniformly on top of soil after plant material is installed.

See details on plans for plant installation.

When planting on slopes, set the plant so the root flare on the uphill side is flush with the surrounding soil on the slope; the edge of the root ball on the downhill side will be above the surrounding soil. Apply enough soil to cover the downhill side of the root ball.  
 Water all trees and shrubs deeply and thoroughly upon installation and as described in section 1.7.3 to maintain health during the first year of establishment.  
 Stake tree in southwestwardly direction. Ties should be loose fitting and allow for natural sway. Remove after one year.  
 Minimize pruning to dead or broken branches.

Place 4" perforated corrugated plastic pipe (CPP) around tree for protection from deer. Cut length to height of tree from root flare to first branch and dice lengthwise. (Not necessary in urban areas) Contractor shall be responsible for replacement of any plant material damaged by wildlife if protective CPP is not installed.

**1.4.5 LIVE NATIVE HERBACEOUS PLANTS**

**1.4.5.1 SEQUENCING AND SCHEDULING**

Installation of plugs shall be performed between April 15 and August 15 and thereafter at Contractor's discretion based upon current weather patterns. Contractor shall be responsible to replace any plugs that do not survive as a result of winter heaving.

If native seed is installed with the plugs and has not germinated within the plug planting area, no pre-emergent herbicides shall be applied during the six (6) months prior to installation and for at least one (1) year following installation.

If native seed is NOT installed and will not be installed within the plug planting area, pre-emergent herbicides shall be applied immediately following the plug installation and as needed to control seasonal weeds for at least one (1) year following installation.

**1.4.5.2 SITE PREPARATION**

Verify that the surrounding uplands have been stabilized.

Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus one (1) inch of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit fine grading to areas that can be planted in the immediate future.

Restore areas if eroded or otherwise disturbed after finish grading and before planting. Verify that the site is clean and free of debris. Proceed with installation only after unsatisfactory conditions have been corrected.

Two weeks (14 days) prior to installation, apply a glyphosate herbicide approved for use around water (Rodeo) to kill existing or remaining lawn grasses and other non-favorable vegetation.

Verify the depth and quality of the topsoil and that the topsoil has been placed according to specifications or exists as a current site condition.

Do not apply any fertilizer.

**1.4.5.3 PLANTING**

Use an auger or other appropriate tool to excavate planting holes in a staggered pattern per the planting plan. Refer to landscape drawings for specific spacing requirements.

Plant plugs level with final soil grade. Be certain that soil is placed around the roots and firmed into place. Under no circumstances is soil to be mounded up to cover roots that are not planted at the appropriate depth.

**1.5 QUALITY OF WORKMANSHIP**

**1.5.1 PERMANENT TURF GRASS SOD/SEED**

All workmanship and finishes shall be first class in all respects, and in accordance with the best practice. The drawings and specifications describe the scope of work but do not show or describe all work or material that may be required for full performance and completion of the contract documents. On the basis of the scope shown herein, Contractor shall furnish and install all parts required for the proper execution and completion of the work. Any item included will require the Contractor to furnish and install all parts needed for a complete installation.

**1.5.2 TREES & SHRUBS**

All workmanship and finishes shall be first class in all respects, and in accordance with the best practice. The drawings and specifications describe the scope of work but do not show or describe all work or material that may be required for full performance and completion of the contract documents. On the basis of the scope shown herein, Contractor shall furnish and install all parts required for the proper execution and completion of the work. Any item included will require the Contractor to furnish and install all parts needed for a complete installation.

**1.5.3 LIVE NATIVE HERBACEOUS PLANTS**

All workmanship and finishes shall be first class in all respects, and in accordance with the best practice. The drawings and specifications describe the scope of work but do not show or describe all work or material that may be required for full performance and completion of the contract documents. On the basis of the scope shown herein, Contractor shall furnish and install all parts required for the proper execution and completion of the work. Any item included will require the Contractor to furnish and install all parts needed for a complete installation.

Installer Qualifications: The submitting bidders shall be, and have been, actively and directly engaged in plug installation for a period of two (2) or more years. Provide proof of five (5) or more successful plug installations.

Installer's Field Supervision: Require installer to maintain an experienced full-time supervisor on project site when planting is in progress.

Qualified bidders shall possess specialized equipment for working in and around water, including but not limited to a small boat, hip waders, or flotation life preservers to be worn while working in water.

Certification of Plugs: Require vendor to provide certification of each species and state both botanical and common name.

**1.6 GUARANTEE AND WARRANTY**

**1.6.1 PERMANENT TURF GRASS SOD**

All work in this Section shall be guaranteed against any and all defects in workmanship and materials appearing within a period of one (1) year after final completion of all site work and acceptance of the work by the Owner. Contractor shall replace, without additional expense to the Owner, any materials and workmanship that show defects within said period, with finished and new materials.

Evaluate establishment of permanent turf grass sod for percent survivability thirty days prior to the end of the first complete growing season and prior to the release of any maintenance or guarantee obligations. Success Criteria: Survivability must be 95% or greater. Dead material in excess of 5% of all sodded areas shall be replaced by the Contractor prior to the end of the warranty period without additional expense to the Owner.

**1.6.2 PERMANENT TURF GRASS SEED**

All work in this Section shall be guaranteed against any and all defects in workmanship and materials appearing within a period of one (1) year after final completion of all site work and acceptance of the work by the Owner. Contractor shall replace, without additional expense to the Owner, any materials and workmanship that show defects within said period, with finished and new materials.

Evaluate establishment of permanent turf grass seed for percent survivability thirty days prior to the end of the first complete growing season and prior to the release of any maintenance or guarantee obligations. Success Criteria: 75% of seeded area shall be covered with vegetation. 25% of the vegetation shall be permanent matrix, and less than 5% invasive species. 50% of the species within the permanent matrix shall be present.

**1.6.3 TREES & SHRUBS**

All work in this Section shall be guaranteed against any and all defects in workmanship and materials appearing within a period of one (1) year after final completion of all installation work and acceptance of the work by the Owner. Contractor shall replace, without additional expense to the Owner, any materials and workmanship that show defects within said period, with finished and new materials.

**1.6.4 NATIVE HERBACEOUS PLUGS**

All work in this Section shall be guaranteed against any and all defects in workmanship and materials appearing within a period of one (1) year after final completion of all installation work and acceptance of the work by the Owner. Contractor shall replace, without additional expense to the Owner, any materials and workmanship that show defects within said period, with finished and new materials.

All plugs shall exhibit vigorous growth and be thoroughly rooted by the end of first complete growing season and prior to the release of any maintenance or guarantee obligations. For installations occurring prior to June 1 the end of the first complete growing season would be in October (or at the first hard freeze) of the installation year. For installations occurring on and after June 1 the end of the first complete growing season would be in October (or at the first hard freeze) of the following year.

Success Criteria: Survivability must be 95% or greater. Dead plant material in excess of 5% of all plugged material shall be replaced by the Contractor prior to the end of the warranty period without additional expense to the Owner.

**1.7 MAINTENANCE REQUIREMENTS**

**1.7.1 PERMANENT TURF GRASS SOD**

Initial Maintenance Service: Provide maintenance by skilled employees of landscape Installer. Maintain as required in below.

Begin maintenance of lawns immediately after sod is installed in each area and continue until acceptable lawn is established, but not less than 60 days after date of Substantial Completion. If full maintenance period has not elapsed before the end of planting season, or if lawn is not fully established, continue maintenance during the next planting season.

Maintenance includes watering, fertilizing, weeding, mowing, trimming, replanting, and other operations to provide a uniform, weed free, smooth lawn.  
 Watering  
 Week 1: In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of at least four (4) inches.  
 Week 2 and beyond: Water turf grass sod as required to maintain adequate moisture in the upper four (4) inches of soil. Avoid application of too much water - turf grass sod should not be continually saturated.  
 Mowing  
 Turf grass sod height shall be maintained between two (2) and six (6) inches or as specified by the Owner. Not more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings.

Initial Maintenance Service: Provide maintenance by skilled employees of landscape Installer. Maintain as required in below.

Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established, but not less than 60 days after date of Substantial Completion. If full maintenance period has not elapsed before the end of planting season, or if lawn is not fully established, continue maintenance during the next planting season.

**1.7.2 PERMANENT TURF GRASS SEED**

Initial Maintenance Service: Provide maintenance by skilled employees of landscape Installer. Maintain as required in below.

Begin maintenance of lawns immediately after each area is planted and continue until acceptable lawn is established, but not less than 60 days after date of Substantial Completion. If full maintenance period has not elapsed before the end of planting season, or if lawn is not fully established, continue maintenance during the next planting season.

Maintenance includes watering, fertilizing, weeding, mowing, trimming, replanting, and other operations to provide a uniform, weed free, smooth lawn. Ensure cover crop seed germinates within two (2) weeks of planting. If dormant seeding, ensure cover crop germinates at the start of the growing season.  
 Watering  
 Thoroughly water all permanently seeded areas after the seed has germinated for a period of one (1) month.  
 Apply a total rate of 120 gallons per 1000 square feet (12.2 m3/1000 m2) in at least two (2) applications spread over seven (7) days. Apply the water under pressure with a nozzle that produces a spray that will not dislodge the seed, seedlings, or mulch material. If 1/2 inch (13 mm) or greater of rainfall has occurred within the first seven (7) day period, the installer may delay or omit the secondary application, depending on weather conditions.

Mowing  
 Once established, turf grass height shall be maintained between two (2) and six (6) inches or as specified by the Owner. Not more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings.

**1.7.3 TREES & SHRUBS**

Initial Maintenance Service: Provide maintenance by skilled employees of landscape Installer. Maintain as required in below. Begin maintenance immediately after plants are installed and continue until plantings are acceptably healthy and well established but for not less than maintenance period below.  
 Maintenance Period for Trees and Shrubs: one year  
 Maintain plantings by pruning, watering, weeding, mulching, resetting to proper grades or vertical position, and performing other operations as required to establish healthy, viable plantings. Spray or treat as required to keep trees and shrubs free of insects and disease.  
 Prune trees, shrubs, and vines according to standard professional horticultural and arboricultural practices. Do not cut tree leaders; remove only injured, dying, or dead branches from trees and shrubs; and prune to retain natural character.  
 Irrigate the plants as necessary to maintain rootball moisture throughout the first growing season. Surrounding soil moisture is not a suitable substitute for rootball moisture evaluation. Use of river water, where available and allowed by federal, state and local authorities, is acceptable for irrigation purposes.  
 Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace mulch materials damaged or lost in areas of subsidence or where moved by stormwater flows from large rainfall events.  
 Apply treatments as required to keep plant materials, planted areas, and soils free of pests and pathogens or disease. Use practices to minimize the use of pesticides and reduce hazards.  
 Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.  
 After the first growing season, evaluate

