HAWKS POINTE PLAT 6

SPARROW LANE

ROSCOE, IL 61073

GENERAL NOTES

1. The designs represented in these plans are in accordance with established practices of civil engineering for the design functions and uses intended by the owner at this time. Neither the engineer nor its personnel can or do warrant these designs or plans as constructed except in the specific cases where the engineer inspects and controls the physical construction on a contemporary basis at the site.
2. The contractor, by agreeing to perform the work, agrees to indemnify and hold harmless the owner, the engineer, the city, and all agents and assigns of those parties, from all suits and claims arising out of the performance of said work, and further agrees to defend or otherwise pay all legal fees arising out of the defense of said parties.
3. In accordance with generally accepted construction practices, the contractor shall be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours. Any construction observation by the engineer of the contractor's performance is not intended to include review of the adequacy of the contractors safety measures, in, or near the construction site. The contractor is responsible for maintaining adequate signs, barricades, fencing, traffic control devices and measures, and all other measures that are necessary to protect the safety of the site at all times.
4. Maintain access for vehicular and pedestrian traffic as required for other construction activities. Use traffic control devices to include temporary striping, flagmen, barricades, warning signs, and warning lights shall be in accordance with current MUTCD and IDOT standards.
5. All phases of the site work for this project shall meet or exceed industry standards and requirements set forth by the Village of Roscoe, the State of Illinois, and this plan set.
6. The Village of Roscoe must be notified at least two (2) working days prior to the commencement or resumption of any work.
7. The contractor shall coordinate all permit and inspection requirements with responsible local, state, and federal agencies. The contractor shall include the costs of this coordination and all inspection fees in the bid price.
8. All work performed by the contractor shall come with a warranty against defects in workmanship and materials. This warranty period shall run concurrent with the required warranty periods the owner must provide to each local government agency, as a condition of the permit.
9. The contractor will be held solely responsible for and shall take precautions necessary to avoid property damage to adjacent properties during the construction of this project.
10. All structures, inlets, pipes, swales, roads and public egresses must be kept clean and free of dirt and debris at all times.
11. Any field tiles encountered during construction shall be recorded showing size, location, and depth by the contractor, and either reconnected and rerouted or connected to the storm sewer system. The owner and village shall be notified immediately upon encountering any tile. Village approval required prior to connection to storm system.
12. The contractor shall field verify the elevations of the benchmarks prior to commencing work. The contractor shall also field verify the location and elevation of existing pipe inverts, curb or pavement where matching into existing work. The contractor shall field verify horizontal control by referencing property corners to known property lines. Notify the engineer of discrepancies in either vertical or horizontal control prior to proceeding.
13. All elevations are on WinGIS Datum, using monument #38 (WIN 18.1 N, 07.1 E)
14. Parking areas designated as A.D.A. and all sidewalk shall be compliant with state and local A.D.A. requirements.
15. Tactile warning plates per IDOT specifications shall be placed at all locations where sidewalk that is to be replaced intersects public roads and at locations indicated in this plan set.
16. The contractor shall verify the location of all utilities in the field prior to construction. This includes sanitary sewer, water main, storm sewer, General Telephone, Commonwealth Edison, Northern Illinois Gas and cable television, if any. The J.U.L.I.E. number is 1-800-892-0123.
17. Property corners shall be carefully protected until they have been referenced by a Professional Land Surveyor.
18. The contractor shall keep careful measurements and records of all construction and shall furnish the Engineer, the Owner and the City with record drawings in a digital format compatible with AutoCAD Release 14 upon completion of his work.
19. Any excess dirt or materials shall be placed by the contractor onsite at the owner's direction or as indicated on the plans.
20. Notify the owner and Village of Roscoe of any existing wells. Obtain permit form the Illinois Bureau of Minerals and the State Water Survey. Cap and abandon wells in accordance with local, state, and federal regulations.
21. Finish grade shall in all areas not specifically reserved for storm water management shall drain freely. No ponding shall occur. Tolerances to be observed will be measured to the nearest 0.04 of a foot for paved surfaces and 0.10 of a foot for unpaved areas.

VICINITY MAP

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DIAL 811 OR (800) 892-0123

JEFFREY S. LINKENFELD 062-043405 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Exp 11-30-25

OWNER:

THE WHITE OAK TRUST

747 GLEASMAN ROAD
ROSCOE, IL 61073

ENGINEER:

ARC DESIGN RESOURCES INC.
5291 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

Sheet List Table

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C19	SPARROW LANE CROSS SECTIONS STA. 106+50 TO 112+00
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L02	LANDSCAPE PLAN PLANTING DETAIL

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ROSCOE, IL 61073
WADE KRETSINGER
SUPERVISOR
(815) 877-0746

SEWER DISTRICT:
FOUR RIVERS SANITATION AUTHORITY
3501 KISHWAUKEE STREET
ROCKFORD, IL 61109
CHRISTOPHER T. BAER, P.E.
DIRECTOR OF ENGINEERING
(815) 387-7660

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ROCKFORD, IL 61108
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PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
5. AGENCY REVIEW	08-06-2024
6. AGENCY APPROVAL	11-25-2024
7. AGENCY APPROVAL	12-18-2024
8. ---	---
9. ---	---
10. ---	---
11. ---	---
12. ---	---

REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
3. ---	---
4. ---	---
5. ---	---
6. ---	---

SHEET TITLE

COVER SHEET

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C00

GENERAL NOTES AND CONDITIONS

1. All earthwork, grading and paving shall be performed in accordance with Standard Specifications for Road and Bridge Construction in Illinois, State of Illinois Department of Transportation, (current edition), the "Supplemental Specifications and Recurring Special Provision" (current edition), and all revisions and supplements thereto, and the requirements and specifications of Village of Roscoe (where applicable).
2. Notify the following at least 48 hours prior to start of construction:
   A. Village of Roscoe Dept. of Public Works - (815) 654-5040
   B. Arc Design Resources, Inc. - (815) 484-4300
3. The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. The J.U.L.I.E. number is 800-892-0123. A minimum of 48 hours advance notice is required for non-emergency work.
4. The Contractor shall contact the Village of Roscoe Department of Public Works Water Division for all water main shutoffs required due to construction operations. The Contractor shall not operate any valves or shutoffs without prior notification.
5. The Contractor shall provide and install two weighted sand bags on the bottom cross member of each type I barricade used.
6. If during paving or grading operations the existing mailboxes or street signs, which are to remain in place, become a hindrance, the Contractor shall be required to carefully remove and reinstall them and shall be included in the cost of the paving or grading pay items.
7. The top four inches of soil in any right of way area disturbed by the Contractor must be capable of supporting vegetation.
8. Cut or fill slopes shall have a maximum ratio of 3 horizontal to one vertical unless noted otherwise. These slope constraints apply to temporary stock piles as well as finished slope conditions.
9. The Contractor is responsible for maintaining positive drainage at the conclusion of each working day.
10. Depressed curb shall be provided for handicapped ramps at all sidewalks abutting the curb and gutter and for future sidewalk locations. Follow IDOT ADA Standards.
11. See cross sections for special slopes, including driveway slopes.
12. Embankment will not be measured for payment and shall be included in the Earth Excavation cost.
13. Except for the top 3", all aggregate bases and subbases 12" in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 12", the bases or subbases shall be constructed of topsize 6" breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 2" size sieve, except the top 3". The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 3" shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 3" layer may be added after the subbase or base course is placed on the grade.
14. A contingency quantity has been included in the plans for Removal & Disposal of Unsuitable Material as well as Rock Fill and shall be used as needed. Quantities will be measured in the field.
15. Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement. Tie bars to be installed in accordance with the applicable portions of Article 420.05 of the Standard Specifications. See Highway Standard 420001-08 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.
16. See cross sections for special ditches and back slopes.
17. The removal of bituminous surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for pavement removal of the type specified.
18. Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the standard specifications, except that the material shall conform to Article 208.02 of the standard specifications, and shall be compacted to a minimum of 95% of the stand laboratory density. Any material conforming to the requirement of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each curb or pavement shall be backfilled with trench backfill material to the bottom of the proposed subgrade.
19. All embankment constructed of cohesive soil shall be constructed with not more than 110% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the #200 sieve. The 110% of optimum moisture limit may be waived in free-draining granular material when approved by the engineer.
20. The contractor shall place temporary hot-mix asphalt tapers along all sides of the utility structures protruding above the final surface. The temporary tapers shall extend 2" outside of the castings, except for the approach side to traffic shall have a 4' taper length. Hot -mix asphalt meeting the approval of the engineer shall be used. No cold millings will be allowed.. The cost of the material, placement, maintenance, remove, and disposal of said work will be incidental to the project.
21. The temporary sheet piling necessary for the placement of storm sewer, sanitary sewer, and watermain shall be included in the cost of the item being installed.
22. Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.
23. All frames and grates of drainage structures to be removed or filled shall be carefully salvaged and shall remain the property of the contractor.
24. The new manhole lids on this project shall have the word "STORM", "SANITARY", or "WATER" on the lid. The word to be used is noted on the plans. It will be the contractor's responsibility to determine the word to be used on other lids not noted on the plans. No additional compensation will be allowed for this work.
25. All proposed manholes on this project shall be cast in place or precast. This work will be paid for at the contract unit price each for manhole of the type and size specified.
26. The contractor shall determine flow lines of existing sewer lines which are shown on the plans as estimated or unknown. This information is necessary before ordering inlets and manholes.
27. Pavement marking shall be done according to standard 780001, expect as follows:
   27.A. All words, such as "ONLY", shall be 8 feet high.
   27.B. All non-freeway arrows shall be large size text.
28. Expect as noted on the plans, pavement grades shown are at the top of pavement surfaces.
29. For stabilization, all type III barricades shall require a minimum of four sand bags per barricade.
30. The work required to connect any sewer to an existing drainage structure or pipe will not be paid for separately, but shall be considered as included in the contract unit price bid for the sewer item.
31. Seeding shall not be permitted at any time when the ground is frozen, wet, or in an untillable condition. Locations to be seeded will be determined by the engineer.
32. Only those trees designated by the engineer or listed in the tree removal schedule shall be removed. The contractor shall protect all remaining trees from damage due to his operations.
33. Abandoned underground utilities that conflict with construction shall be disposed of outside the limits of the right-of-way according to Article 202.03 of the standard specifications and as directed by the engineer. This work will not be paid for separately, but shall be included in the cost of earth excavation.
34. Any reference to a standard in these plans shall be interpreted to mean the most current edition.
35. The following rates of application have been used in calculating plan quantities:

Granular Materials	2.05	TONS / CU YD
Bituminous Materials Tack Coat	0.03	LBS / SQ FT
Aggregate Prime Coat	0.25	LBS / SQ FT
HMA Paving	112	LBS / SQ YD / IN
Short Term Pavement Marking	10	FT / 100 FT OF APPLICATION
Mix for Cracks, JTS, & FLGWYS	0.0003	TONS / SQ YD
Level Binder (Hand Method)	0.0005	TONS / SQ YD
Supplemental Watering	3	GAL / SQ YD/ APPLICATION
Calcium Chloride	2	LB / SQ YD/ APPLICATION

36. Any existing field tiles crossing under the roadway, as shown in the plans or discovered during exploration trenching, shall be replaced according to Section 611 of the standard specifications and paid for under the various pat items for storm sewer work.
37. All sanitary sewer work (including manhole adjustment, sewer crossing, etc.) shall be constructed in the presence of a FRSA Inspector. The Contractor shall coordinate this work with District Survey and Field Operations Mgr. Ben Christensen, cell 815-209-7952
38. All sanitary sewer work shall conform to all standards and specifications of the Four Rivers Sanitation Authority.

GENERAL WATER UTILITY NOTES

1. All watermains shall be constructed in accordance with the "Standard Specifications for Water and Sewer Main construction in Illinois", current addition, as well as the North Park Public Water District's Standard Watermain Specifications current addition, on file with the Illinois EPA Division of Public Water Supplies.
2. All watermain shall be Ductile Iron pipe conforming to AWWA Standard C151 & C111 and be constructed of Class 52 Ductile Iron pipe for all sizes through twelve (12) inch, and Class 51 Ductile Iron pipe for all sizes larger.
3. The minimum cover for all watermain, hydrant lead piping, and water service pipe is 7 feet 0 inches (7'-0") from finished grade to top of pipe.
4. All watermains under and within two feet of any existing or proposed street pavement or curb shall be backfilled with granular backfill material. Trench and backfill shall be placed in lifts not to exceed 12 inches compacted to 95% of maximum standard proctor density.
5. All gate valves shall be reduced wall, resilient-seated gate valve, meeting all specifications of AWWA C515. All gate valves shall be approved equal to those named. Both valve ends shall be mechanical-joint, underground, or flanged which will meet requirements in AWWA C110. Accessories (bolts, glands, and gaskets) shall be supplied by the valve manufacturer. Refer to section 2.03.1 of North Park Public Water District "Standard Specifications of Water Main Construction".
6. Refer to section 2.09.3 of North Park Public Water District "Standard Specifications of Water Main Construction" for pressure testing requirements.
7. Refer to section 2.09.3 of North Park Public Water District "Standard Specifications of Water Main Construction" for leakage testing requirements.
8. After the pressure test has been accepted, the contractor shall chlorinate the watermains in accordance with the requirements of AWWA, the Illinois EPA, and the North Park Public Water District. HTH tablets shall not be glued to PVC watermain.
9. Watermains and services shall be separated from or protected from sanitary and storm sewers in accordance with Section 41-2.01 of the "Standard Specifications for Water and Sewer Construction in Illinois", current edition.
10. Water service materials shall consist of copper pipe, or minimum PC160 polyethylene, brass corporation and curb stops, with curb boxes. Refer to section 3.01 of North Park Public Water District "Standard Specifications of Water Main Construction" for complete water service line material specifications.
11. No object may be constructed, maintained, or installed within 48 inches of a fire hydrant. Trees, bushes, walls, or other obstacles which may hide or impede the use of a fire hydrant will not be permitted.
12. Fire hydrants shall comply with standards specified in AWWA C502 for Dry Barrel Fire Hydrants and section 2.04 of North Park Public Water District "Standard Specifications of Water Main Construction". Only the following manufacturers and models are accepted by the District:
    a. Kennedy Guardian K-81A
    b. Mueller Super Centurion A-421

    No fire hydrants shall be located in cul-de-sac islands. Hydrants shall be painted in conformity to AWWA Std. C502, Traffic Yellow. The inlet connection shall be six (6) inch oversized mechanical joint type, which is designed to be installed on Class D Pit Cast or Class 250 Cast Iron pipe and Class 52 Ductile Iron pipe by using two (2) types of available gaskets furnished with the hydrant. Gaskets for oversized cast iron and ductile iron are to be color coded to identify which gasket is to be used on which pipe. The interior shoe and lower valve plate shall be coated with an epoxy at a minimum of four (4) mils thickness. Ductile iron restrained retainer glands, bolts (COR-Blue), nuts, and gaskets, shall conform to AWWA Standard C111.

    Hydrant installation: Hydrants shall be installed in strict accordance with AWWA C600 and recommendations of the manufacturer. All hydrants shall stand plumb and shall have their nozzles parallel with or at right angles to the curb, with pumper nozzle facing the curb. Hydrants shall be set to the established grade, and have a minimum bury depth of 7 feet 0 inches, with the center of the pumper nozzle being 18 to 24 inches above grade. Precautions must be taken to provide adequate drainage of hydrants where natural soils will not provide drainage. Hydrant drains shall not be connected to or located within 10 feet of sanitary sewers or storm drains. Hydrants will be spaced as directed by the District. In general, hydrant spacing will be based upon the area being served and as recommended by the State Insurance Services Office.
13. Record drawings along with a digital copy in AutoCAD format, are required by the North Park Public Water District. The contractor shall record measurements from property pins to the centers of the valve lids and curb boxes. Each measurement shall be parallel or perpendicular to the property line. GIS shapefiles and with GPS points provided during construction, not during design, shall be provided along with asbuilts. Refer to section 1.03 of North Park Public Water District "Standard Specifications of Water Main Construction" for digital submittal standards.
14. All bends of eleven and one fourth (11 ¼) degrees or greater, and all tees and plugs shall be thrust protected to prevent movements of lines under pressure as per NPPWD detail and specifications
15. The contractor shall contact the NPPWD at least 48 hours prior to beginning work on the water main and/or service installations and should make the site available for inspection by the NPPWD at regular intervals during construction.
16. Per sections 2.08.12 and 3.02.2 of North Park Public Water District "Standard Specifications of Water Main Construction", tracer wire is required for PVC and HDPE water main pipe and service pipe. Ductile iron pipe is required for all new water main construction.

NORTH PARK PUBLIC WATER DISTRICT STANDARD SPECIFICATION WATERMAIN CONSTRUCTION

Revised May 2024

The work to be done under these specifications includes the furnishing of all labor, materials, and equipment necessary for the proper installation of the piping, all plumbing work and watermains. All workmanship and materials shall conform to requirements of the latest edition of all appropriate regulations, recommendations or requirements of all federal, state and local agencies.

Replace all sections of sidewalk, street paving, or surfacing or other improvements damaged during construction as a result of the contractor's operations. All unpaved areas shall be re-seeded. Contractor shall be responsible for the adequacy of all sheeting, bracing and the support of all adjacent buildings, including any underpinning of buildings which may be necessary, as approved by the District. When blacktop surfacing is removed it shall be replaced and the gravel or crushed stone base shall be replaced so that such replacement shall consist of sufficient material meeting the specifications of the I.D.O.T. for Gravel and Crushed Stone Base Course, or other requirements of the local government having jurisdiction.

1. WATERMAINS

1.1. Horizontal and Vertical Separations

(a) Whenever possible, a watermain should be laid at least 10 feet horizontally from existing or proposed drain or sewer lines.

(b) Should local conditions prevail which would prevent a lateral separation of 10 feet, a watermain may be laid closer than 10 feet to, or in the same trench as, a storm or sanitary sewer, provided the main is laid in a separate trench or on an undisturbed earth shelf located to one side of the sewer and at such an elevation that the bottom of the watermain is at least 18 inches above the top of the sewer.

(c) If it is impossible to obtain proper horizontal and vertical separation as stipulated in (a) or (b), both the watermain and the sewer should be constructed of approved material and be pressure tested to assure water-tightness before backfilling.

(d) All work shall be governed by the latest editions of the Illinois Plumbing Code published by the Illinois Department of Public Health, and the Standard Specifications for Water and Sewer Main Construction in Illinois.

1.2. Water Service Line

The horizontal and vertical separation between water service lines and all sanitary sewers, storm sewers, or any drain, should be the same as for watermains, as detailed in Section 1.1. When minimum horizontal and vertical separation cannot be maintained, installation must meet the same requirements in Section 1.1.(c)

All manufacturer's recommended or required safety precautions and equipment shall be used when tapping water mains.

1.3. Installation of Watermains

All pipes, fittings and specials shall be carefully examined by the Contractor for defects, and none shall be placed when known to be defective. If any defective material is discovered after being installed, it shall be removed and replaced with sound material without extra charge.

Care shall be taken to prevent the exterior tar coating on ductile iron or the interior mortar coating from being injured. On the inside of pipes, special care shall be exercised to avoid leaving bits of wood, dirt and other foreign particles in the pipe. All piping when laid shall conform accurately to lines and grades established by the Contractor and shall be laid to prevent trapping air.

All watermain installed underground shall be lowered into trench using approved mechanical or other method insuring that no pipe is dropped into a trench.

All mains and branches shall be laid upon solid earth, and laying of mains upon loose or newly filled earth will not be permitted. Blocking to prevent movement of lines under pressure at bends, tees, caps, valves and hydrants shall be poured in-place Portland Cement Concrete, a minimum of twelve (12) inches thick, placed between solid ground and the fittings, and shall be anchored in such a manner that pipe and fitting joints will be accessible for repairs.

All bends and all tees and plugs shall be thrust protected to prevent movement of the lines under pressure as necessary to install thrust blocking at deflected sections as well as at fittings. Where unstable soil or backfill conditions exist, it may be necessary to install thrust blocking at deflected sections as well as at fittings. If required by the District, deflection blocking shall be installed at a point approximately one-fifth (1/5) of the pipe length each side of the coupling. Couplings shall not be blocked (See AWWA Manual 17).

Where conditions prevent the use of concrete thrust blocks, tied joints or restrained joints of a type approved by the District shall be used.

Piping installed above ground outside of structures and installed inside of the building shall be supported by means of concrete pipes, brackets, floor stands, or hangers, which shall support the piping and appurtenances in a firm and substantial manner approved by the District.

1.3.A. Jointing Mechanical Joint Pipe: The outside of the spigot and inside of the bell of the mechanical joint pipe shall be thoroughly cleaned to remove all foreign matter from the joint. The gland shall then be slipped on to the spigot end of the pipe with the lip extension of the gland toward the socket or bell end. The rubber gasket shall be place on the spigot end with the thick edge toward the gland. The pipe shall be pushed forward to completely seat the spigot end in the bell. The gasket shall then be pressed into place within the bell, being careful to have the gasket evenly located around the entire joint. The gland shall then be moved along the pipe into position and bolted.

Nuts spaced 180 degrees shall be tightened alternately to AWWA C-600 Standards in order to produce an equal pressure on all parts of the gland.

1.3.B. Joint Rubber Gasket Joint Pipe (AWWA C111/A21.11): The inside of the bell shall be thoroughly cleaned to remove all foreign matter from the joints. The circular rubber gasket shall be inserted in the gasket seat provided.

A thin film of gasket lubricant shall be applied to the inside surface of the gasket. Gasket lubricant shall be of a solution of vegetable soap or other solution supplied by the pipe manufacturer and approved by the District.

The spigot end of the pipe shall be cleaned and entered into the rubber gasket in the bell, using care to keep the joint from contacting the ground. The joint shall then be completed by forcing the plain end into the seat of the bell. Pipe which is not furnished with a depth mark shall be marked before assembly to assure that the spigot end is inserted to the full depth of the joint.

Field-cut pipe lengths shall be beveled to avoid damage to the gasket and facilitate making the joint.

1.3.C. Laying of Pipe on Curves: Where field conditions require long radius curves not specifically detailed by the plans, the District will determine the methods to be used. No additional payment will be made for laying pipe on curves as shown on the plans, nor for field changes involving standard lengths of pipe deflected at the joints. When special fittings not shown on the plans are required to meet field conditions, additional payment will be made for special fittings as agreed upon with the District in advance of installation. Maximum deflections at pipe joints and laying radius for the various pipe lengths are as found in the following standards:

Ductile-Iron Pipe: Bell and Spigot Joints only required for AWWA C600
Special Conditions
Ductile-Iron Pipe Mechanical Joints AWWA C600
Molecularly Oriented Polyvinyl chloride (PVCO) 4" - 24" AWWA C909
Concrete Pressure Pipe AWWA C30,
AWWA C301, AWWA C302, AWWA C303, AWWA C304

When rubber-gasket pipe is laid on a curve, the pipe shall be jointed in a straight alignment and then deflected to the curved alignment. Trenches shall be made wider on curves for this purpose. All watermain and water pipe shall be installed to a depth to provide not less than 7'-0": of earth covering from finished grade to top of pipe, except that any house service installed under any roadway shall have a 7' cover. Absolutely NO cinders may be included in the backfill within three (3) feet of water pipe, and at least twelve (12) inches of clean earth or sand shall surround it. This also applies to the bedding of pipe if rock excavation is encountered. A bed of 4 to 6 inches thickness of pit run sand or gravel is required between rock and watermain.

1.4. Watermain Material

1.4.A. Ductile-Iron Pipe: Ductile-iron pipe shall be manufactured in accordance with AWWA C151/A21.51, and meet wall thickness requirements of AWWA C150/A21.50. Pipe shall be centrifugally cast in metal molds and shall be lined in accordance with AWWA C104/A21.4. Joints shall be of an approved type. (Thickness Class 52)

1.4.B Polyvinyl Chloride (PVC) Pipe: Molecularly Oriented Polyvinyl chloride (PVCO) pipe shall conform to accepted standards referenced in AWWA C909 . In any case of conflict, the requirements of AWWA C909 shall prevail for pipe sized 4 inches through 24 inches. . Minimum acceptable pipe in sizes 4 inches through 12 inches is one having a Dimension Ratio of 18 (DR-18) for PVC 1120 pipe with equivalent OD's for a working pressure of 150 pounds.

PVCO pipe shall be guaranteed for 5 years by the manufacturer and an acceptable written guarantee signed by an officer of the company shall be furnished to the District, upon request, before any pipe is delivered to the job site.

Joints shall be of the elastomeric-gasket type unless otherwise specified. All pipe fittings shall be in accordance with the appropriate AWWA standard.

Direct service tapping of polyvinyl chloride (PVC) pipe will not be permitted. All service taps will include a service saddle of an approved type.

1.4.C. Concrete Pressure Pipe: Concrete pressure pipe shall conform to acceptable standards referenced in one or more of the following AWWA standards: AWWA C300; C301; C302; C303; C304; or additional recommendations of the manufacturer. Joints shall be of an approved type and be in accordance with the appropriate AWWA standard. Specials and service taps will be of a type approved by the District before delivery to the job site.

1.4.D Transmission Pipelines: Transmission pipelines shall be Ductile Iron as specified in Section 1.4.A. of this specification document.

1.4.E. Casing Pipelines: When casing pipelines are being installed via a "bored and jacked" method, the casing pipe shall be steel and have a diameter of at least 6" larger than the size of the watermain. When casing pipes are installed via a "direct bury" method, the carrier pipe can be made of C905, SDR25 or steel and have a diameter of at least 6" larger than the size of the watermain.

1.4.F.1 Watermain being installed within a casing pipe must have a restrained joint. An example of restrained joint is Certain Teed C900/905 RJ & RJIB Restrained Joint PVC.

1.4.F.2 For all casing pipelines, a rubber boot with stainless steel bands is required on each end of the casing. NO brick and mortar end caps will be permitted. In addition, casing spacers (Cascade - All Stainless Steel or equivalent) shall be installed in accordance with the District Engineer or Manufacturers specifications. Should a discrepancy occur, the District Engineer shall take precedent.

1.4.G. Testing Watermain and Piping

The distribution pipelines shall be tested as described in AWWA C600 Sec. 4 (Ductile-Iron) or AWWA C909, Section 4 (Molecularly Oriented Polyvinyl chloride (PVCO) pipe, by filling with water and subjecting to a pressure of not less than 1.25 times the working pressure at the highest point along the test section and not less than 1.5 times the working pressure at the lowest point along the test section. Test pressure shall not exceed pipe or thrust-restraint design pressures. Test pressure shall not exceed the rated pressure of the valves when the pressure boundary of the test section includes closed, resilient-seated gate valves or butterfly valves. All damaged or defective pipe, fittings, valves, hydrants, or leaking joints discovered following the pressure test shall be repaired or replaced and the test shall be repeated until it is satisfactory. The Contractor shall provide the necessary pump connections and pay for all costs of making the test.

Pressure shall be maintained on the line for a period specified in AWWA C600 & C909, Sec. 4, and the allowable leakage calculated rate not to exceed that recommended. Acceptance shall be determined on the basis of allowable leakage. If any test of laid pipe discloses leakage greater than that specified, the Contractor shall, at his own expense, locate and make approved repairs as necessary until the leakage is within the specified allowance. All visible leaks are to be repaired, regardless of the amount of leakage.

1.4.H. Procedure for Disinfecting Watermains

Disinfecting newly constructed potable-water mains shall be done in accordance with recommendations in AWWA C651. The interior of all pipe, fittings and other accessories, shall be kept as free as possible from dirt and foreign matter at all times. On the date the pipe is to be laid, it shall have all dirt and foreign matter removed from it and be swabbed with a solution containing 1-percent hypochlorite. The use of chlorine salts shall be accordance with recommended procedures in AWWA C651 and recommendations of the manufacturer of the pipe, fittings and accessories.

Every precaution shall be used to protect the pipe against the entrance of foreign material before the pipe is placed in the new line. At the close of the days work or whenever the workmen are absent from the job, the end of the last laid section of pipe shall be plugged, capped or otherwise tightly closed to prevent the entry of foreign material of any nature.

If the Contractor, or pipe-laying crew, cannot put the pipe into the trench and in place without getting dirt into it, the District may require that before lowering the pipe into the trench, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is made to the adjacent pipe.

At times when pipe laying is not in progress, then open ends of pipe shall be closed by a watertight plug or other means approved by the District. This provision shall apply during the noon hour as well as overnight. If water is in the trench, the seal shall remain in place until the ditch is pumped completely dry or provisions of AWWA 651 Sec. 4.6. Wet-Trench Construction are met.

Before being placed in service, all new water distribution systems and repaired portions of, or extensions to existing systems, shall be chlorinated. The chlorination method shall be an appropriate method recommended in AWWA 651 Sec. 5. The point of application of the chlorinating agent shall be at the beginning of the pipeline extension or any valved section of it and through a corporation stop in the top of the pipe.

Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly in to the newly laid pipeline during the application of chlorine. The rate chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine dose applied to the water entering the newly laid pipe will meet recommended chlorine doses.

Valves shall be manipulated so that the strong chlorine solution in the water line being treated will not flow back into the line supplying the water. Treated water shall be retained in the pipe long enough to destroy all non-spore forming bacteria. This period shall be as recommended in AWWA 651 for the method of chlorination chosen.

In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is being filled with the chlorinating agent.

Following the chlorination, all treated water shall be thoroughly flushed from the newly laid pipeline at its extremities until the replacement water throughout its length, upon test, is proven comparable to the quality of water serving the public from the existing water supply system and approved by the Public Health Authority having jurisdiction. This quality of water delivered by the new main should continue for a period of at least two full days as demonstrated by laboratory examination of samples taken from a tap located and installed in such a way as to prevent outside contamination. Samples should never be taken from an unsterilized hose or from a fire hydrant, because such samples seldom meet current bacteriological standards.

Should the initial treatment fail to result in the conditions specified, the chlorination procedure shall be repeated until such results are obtained.

2. VALVES

2.1. Butterfly Valves (14 inch or larger): All butterfly valves shall be of the rubber seated, tight closing type. They shall meet or exceed performance requirements for water application of applicable recognized standards such as AWWA C504. All butterfly valves shall be approved equal to those named. Both valve ends shall be mechanical-joint, underground, or flanged with 150# flanges inside, per AWWA specifications. Accessories (bolts, glands and gaskets) shall be supplied by the valve manufacturer. All valves must use full AWWA C504 Class 150B valve shaft diameters, and full Class 150B underground-service operator torque rating throughout entire travel, to provide capability for operation in emergency service. All 14 inch or larger valves shall be installed with mechanical joint sleeves to accommodate valve replacement or removal without cutting pipe.

The valve body shall be high-strength cast-iron, ductile-iron or alloy cast-iron conforming to recommendations in AWWA 504 Sec. 3. Packing shall be suitable for use in potable-water-service applications and shall not contain asbestos or other constituents identified by the USEPA as being unacceptable for contact with potable water.

The rated torque capability of each actuator shall be sufficient to seat, unseat, and rigidly hold in any intermediate position the valve disc it controls under the operating conditions specified. Valves shall be capable of easy closure by one main using a standard valve key, even under emergency conditions. All valves shall open left and be equipped with 2-inch standard nut.

Each valve shall be capable of meeting all testing and leakage requirements in AWWA C504. Upon request, the manufacturer shall furnish certified copies of the reports covering these tests

Valves approved for interior installations are: Pratt 150 psi, AWWA 504, Fl., gear operated or Coated Butterfly Dresser "450" or approved equal.

Valves approved for underground installations are: Pratt "Groundhog" 150 psi, MJ gear operated, adj. box or coated butterfly, Dresser "450", Mueller Link Seal III or approved equal.

2.2A. Gate Valves (12 inch or smaller): All gate valves shall be reduced wall, resilient-seated gate valve, meeting all specifications of AWWA C515. All gate valves shall be approved equal to those named. Both valve ends shall be mechanical-joint, underground, or flanged which will meet requirements in AWWA C110. Accessories (bolts, glands and gaskets) shall be supplied by the valve manufacturer.

The valve body and associated parts shall be manufactured of material recommended in AWWA C515 or as otherwise specified in AWWA standards. Packing shall be suitable for use in potable-water-service applications and shall not contain asbestos or other constituents identified by the USEPA as being unacceptable for contact with potable water.

All valves shall open left and be equipped with 2 inch standard nut for underground installation. Each valve shall be capable of meeting all testing and leakage requirements in AWWA C515. Upon request, the manufacturer shall furnish certified copies of the reports covering these tests.

Valves approved for interior/exterior installations are: AFC series 2500 or approved equal.

2.2B Gate Valves (8 inch or smaller): All gate valves shall be of the resilient seated type construction, meeting all specifications of AWWA C515 or C509. All gate valves shall be approved equal to those named. Both valve ends shall be mechanical-joint, underground, or flanged which will meet requirements in AWWAC110. Accessories (bolts, glands and gaskets) shall be supplied by the valve manufacturer.

The valve body and associated parts shall be manufactured of material recommended in AWWA C515, C509or as otherwise specified in AWWA standards. Packing shall be suitable for use in potable water service applications and shall not contain asbestos or other constituents identified by the USEPA as being unacceptable for contact with potable water.

All valves shall open left and be equipped with a 2 inch standard nut for underground installation. Each valve shall be capable of meeting all testing and leakage requirements in AWWA C509 or C515. Upon request, the manufacturer shall furnish certified copies of the reports covering these tests

Valves approved for interior/exterior installations are: Mueller Resilient-wedge A2360 or AFC series 2500.

2.3. Valve Vaults and Boxes: Valve boxes are required for all 12 inch or smaller buried valves. Valve boxes shall be cast-iron three-piece construction with a cover and the word "WATER" marked thereon. Covers shall be set at finished grade lines and be centered vertically over valves. Approved valve boxes are: Mueller No. H-10357, Size E or approved equal.

Valve vaults are required on all valves 14 inches or larger. Vaults shall be 60 inches in diameter with manhole frame and cover equal to Neenah Foundry R 1670 or East Jordan Iron Works #1117, , cast-iron steps equal to Neenah R-1981-I cast in manhole walls. Manhole shall be pre-cast, preferably all in one piece, and reinforced. The vault cone section cannot exceed 36" in height and that the manhole lid shall contain a checkered pattern and be lettered "Water"

2.4. Installation of Valves: All butterfly valves shall be inspected upon delivery in the field to insure proper working order before installation. They shall be set and jointed to the pipe in the manner as set forth in AWWA standards the same as for gate valves, and for the type of connection ends furnished.

Valves 12 inches and under shall be installed in a vertical position and be provided with a standard valve chamber of cast-iron valve box so arranged that no shock will be transmitted to the valve. The box shall be centered over the operating nut, and the cast-iron box cover shall be set flush with the roadbed or finished surface. Valves 14 inches or larger shall be installed in valve manholes as specified.

After installation, all valves may be subjected to the field test for piping as outlined in these specifications. Should any defects in material or workmanship appear, the Contractor shall correct such defects with the least possible delay and to the satisfaction of the District. Should the Contractor fail to do this within a reasonable period of time in the judgment of the District, the District may cause such defects to be corrected and deduct the cost thereof from any money or payments due or to become due the Contractor

2.5. SERVICE MATERIALS

Service materials shall consist of copper pipe, or minimum PC160 polyethylene (IPS), brass corporation and curb stops, with curb boxes, as necessary for constructing the type of water service described herein.

Copper service pipe shall be Type K soft temper pipe conforming to specifications in AWWA C800. Polyethylene tubing (IPS) shall conform to requirements in AWWA C901. Polyethylene requires inserts to support compression connections. Inserts (stiffeners) shall be 1" IPS stainless steel.

Corporation stops shall conform to specifications in AWWA C800 and shall be 1 inch minimum by 1 inch minimum with 1 inch minimum thread inlet and 1 inch minimum outlet for flared copper/compression pipe joint as manufactured by the Ford Meter Box Company, Wabash, IN, or approved equal.

Curb stops shall conform to specifications in AWWA C800 and shall be 1 inch minimum size, Minneapolis pattern, roundway stop with outlet for flared/compression pipe joint inlet and outlet as manufactured by Ford Meter Box Company, Wabash, IN, or approved equal.

Curb stop boxes shall be 2 inch Minneapolis pattern, 6 foot 6 inch minimum adjustable bury extension for use on a 1 inch minimum curb stop, having a 1 1/4 inch upper section and a lid with a brass pentagon plug as manufactured by Mueller Company, Decatur, IL, or approved equal.

For water services 4" in diameter, pipe shall match the existing adjacent water main material

3. BLOCKING & SPECIAL RESTRAINED JOINTS

3.1. Blocking: Blocking of all bends, plugs, caps, reducers and tees with concrete is required, as shown on approved plans or standard recommendations. An exception is allowable where mechanical restraints here specified are used.

3.2. Special Restrained Joints: Restraining mechanisms for push-on or mechanical-joints may be used in lieu of concrete bracing, if so indicated in the plans and specifications. Tie rods, clamps, or other components of dissimilar metal shall be protected against corrosion by hand application of a suitable coating or by encasement of the entire assembly with 8-mil (0.2 mm) loose polyethylene film in accordance with AWWA C105.

4. WATERMAIN CROSSINGS OF HIGHWAYS OR RAILROADS

Watermains placed under railroads or highways shall be Class 150 pipe with mechanical-joints meeting the applicable requirements of AWWA, and all other agencies having jurisdiction. Special requirements will be approved by the District in advance of construction.

5. CLEAN-UP

The Contractor shall restore all property to as nearly original condition as possible. This includes re-seeding of grassed areas, replacement of fences, shrubs, bushes, etc., and repairs to existing pavement.

6. PIPEWORK (AND MISCELLANEOUS)

6.1. Connections With Existing Installations: When the proposed watermain or its branches connect with existing watermains, the Contractor shall not connect such structure with the watermain unless shown on the plans, or unless directed to do so by the District. If, however, a connection with new construction is not made, the Contractor shall restore existing facilities to its original form so that it may function as in its original capaVillage.

6.2. Construction near Asbestos-Concrete (AC) Watermain: When working near AC watermain, contractors shall not disturb the cradle of the pipe. Should the disturbance of the cradle of the pipe be unavoidable to permit construction to reasonably occur, the watermain shall be severed at the limit each side of the trench and removed during construction, once the immediate conflict is completed, the pipe shall be replaced as directed by District Staff. Under any circumstance, water service interruption to existing customers shall be minimized and limited to less than 8 hours.

6.3. Disturbance of existing water services: When a contractor or outside utility company is performing excavations for infrastructure installation that require an existing water service to be temporarily removed or cut, it shall be done in the following prescribed manner. If the center of the new infrastructure being installed is equal to or less than 15 horizontal feet from the existing curb box (shut off valve) for the service, then the contractor shall reconnect the water service with a new curb stop/box and new, in kind pipe to the far side of the excavation for the new infrastructure- utilizing only one (1) three piece union. If the center of the new infrastructure being installed is greater than 15 horizontal feet from the existing curb box, then the contractor may use two (2) three piece unions and a piece of in-kind pipe to reconnect the water service. In every instance, the contractor shall: (1) thoroughly compact the approved backfill material under the water service before it is reconnected and (2) remove any part of the water service that was crimped, damaged or altered for the purpose of constructing the new infrastructure.

6.4. Permits and Fees: The Contractor shall insure that all necessary permits are issued and fees paid before any work is started. The Contractor shall obtain a letter of approval on the repair, or reconnection of any utilities from the utility company concerned, or the municipal department concerned.

6.5. Record Drawings: The Contractor shall keep a record in duplicate, accurately locating all pipelines installed as to surface locations and depths and indicating the exact locations of all connections or provisions for future connections indicating sizes. One record drawing will be provided to the District upon completion of the project. Also, as-builts shall be provided on a disk with an Auto Cad format. GIS shapefiles and with GPS points provided during construction, not during design, shall be provided along with as-builts.

6.6. Guarantee-Warranty: The Contractor shall guarantee that all equipment, apparatus, and work will satisfactorily perform the intended function and remain free of defective material and workmanship for a period of one (1) year from the date of final acceptance by the District. A maintenance bond in favor of the District may be required, and such bond would become effective on the date of final acceptance and remain in effect for a period of one (1) year.

6.7. Backflow Prevention: The Contractor shall take all necessary precautions to protect the potable water supply from cross-connection with ANY source of contamination. Approved backflow prevention devices must be installed in all commercial and industrial installations.

7. River Crossing Pipe:

Watermain for river crossings shall be restrained joint ductile iron pipe manufactured with requirements of AWWA C151/A2.21.21. Push-on joints for such pipe shall be in accordance with AWWA C111/A21.11. Pipe shall be Class 55 thickness in accordance with AWWA C150/A21.50.

Fittings shall be ductile iron and in accordance with applicable requirements of either AWWA C153/A21.53 or C110/A21.10, and shall utilize a push-on or mechanical restrained joint where applicable.

Restrained joints for river crossing pipe and fittings shall be designed for a working pressure of 350 psi. Joints shall be capable of being deflected, after assembly, 4%, in 6 through 12 inch sizes, and 3% in 14 through 24 inch sizes.

Pipe and fittings shall have a cement mortar lining and seal coating, where applicable, in accordance with AWWA C104/A21.4.

The preferred method of installation is pulling it into position. After trenching the river for three feet (3') of cover, the joints are assembled on shore. The river bank is trenched and sloped to prevent over-deflection of

The joints during pulling. The lead pipe is usually a connecting piece which is capped or plugged to keep unwanted water out of the pipe and reduce the weight of the submerged pipe. A cable or harness is attached behind the first joint and the pulling cable secured to the lead end to keep the lead pipe up during pulling. The line is pulled into place from the opposite shore. To prevent flotation of the pipe, the Contractor shall fill each section with water before being pulled into place. The Contractor shall then cover the pipe with three feet (3') of 3" (minimum) shot rock.

Pipe shall be installed per the requirements of permits issued by the Corps of Engineers, Illinois Division of Natural Resources and any other agency having jurisdiction. Valves shall be provided at both ends of river and creek crossings so that the section can be isolated for testing and repair. The valves shall be easily accessible, and not subject to flooding and located in a valve vault according to Section 2.3. Permanent 1" taps and valves shall be installed on the river or creek side of each valve to allow insertion of a small meter to determine leakage and for sampling purposes.

Any items or provisions not covered by these standard specifications shall be referred to the District General Manager, District Engineer or other designated official whose decision shall be final. Neither the District, nor the Contractor shall take advantage of any apparent error or omission in these specifications, and the District shall be permitted to make such minor changes and alterations as may be deemed necessary for the fulfillment of the intent of these specifications.

EARTHWORK NOTES

1. Definition for materials
   A. "Organic material" is defined as material having an organic content in excess of 8% or as determined by the project owner's engineer.
   B. Topsoil shall be friable and loamy (loam, sandy loam, silt loam, sandy clay loam, or clay loam). Sand content shall generally be less than 70% by weight, and clay content shall generally be less than 35% by weight. Organic soils, such as peat or muck, shall not be used as topsoil.
   C. Topsoil shall be relatively free from large roots, weeds, brush, or stones larger than 25 mm (1 inch). At least 90% shall pass the 2.00 mm (no. 10) sieve.
   D. Topsoil ph shall be between 5.0 and 8.0. topsoil organic content shall not be less than 1.5% by weight. Topsoil shall contain no substance that is potentially toxic to plant growth.
   E. "Existing on-site material within moisture content limits" is defined as material of such a quality that the specified compaction can be met without any additional work other than "densifying" with a roller. Scarification and drying of this material will not need to be done prior to compaction.
   F. "Existing on-site material NOT within moisture content limits" is defined as material with a high moisture content that can not meet specified compaction requirements without scarification and drying, chemical stabilization, etc. of this material prior to compaction.
   G. "Unsuitable material" is defined as any materials that:
      G.1. Cannot be utilized as "topsoil", (organic) for landscape areas.
      G.2. Cannot be utilized as "engineered fill", regardless of moisture content and/or does not structurally meet the standards of the project owner's engineer's recommendations for "engineered fill".
      G.3. These materials can be defined as natural materials or materials from "demolition" and/or excavated areas; i.e., they are materials that would not be suitable for "engineered fill".
   H. "Off-site material" is defined as any materials that are brought from any area not indicated on this plan set.
   I. "Trench backfill" shall be defined as any materials used for the purposes of backfilling any trench and/or any excavation requiring backfilling. Refer to the section titled "standards for fill areas" for determine acceptable materials and procedures.
   J. the term "stripping" or "strip" as used herein shall be defined as the removal of all "organic materials" from a given area. the term "organic materials" is defined as material having an organic content over 8% based on ASTM test method D-2974 or as defined by the owner's engineer.
3. Standards for cut areas:
   A. A "cut area" is defined as any area where "engineered fill" is not required to bring the site to design subgrade elevation, instead excavation or "cutting" is required to achieve design subgrade elevation. ("Engineered fill" being defined as any material being "offsite material".)
   B. In "cut areas" the site contractor shall perform one of the following procedures at the discretion and in the presence of a representative of the owner's engineer and the project architect:
      B.1. Item 1: for exposed pavement subgrades consisting primarily of granular soils the exposed subgrade should be compacted/densified by at least one (1) pass of a smooth-drummed vibratory roller having a minimum gross weight of 10 tons.
      B.2. Item 2: for exposed pavement subgrades consisting primarily of cohesive soils, the exposed subgrades should be proof-rolled with a fully-loaded six-wheel truck having a minimum gross weight of 25 tons. the maximum allowable deflection under the specified equipment shall be 1/2".
   C. In the event that adequate stability of granular soils subgrades cannot be achieved by the procedures as outlined in item 1, above, or that deflections of greater than 1/2" are observed during the "proof rolling" of cohesive soils subgrades, as outlined in item 2, above, additional corrective measures will be required. These measures could include, but not necessarily be limited to, scarification, moisture conditioning, and re-compaction; undercutting & replacement with engineered fill and chemical stabilization, etc.. with crushed stone (with or without geotextiles); chemical stabilization, etc.
   D. It shall be considered as part of the scope of these documents and thus part of this contractor's responsibility to perform scarification and allow for drying of the subgrade per illinois dot standards (scarify a 16" depth for 3 days). If this does not work then additional drying measures shall be an extra to the contract.
   E. Any proposed corrective measures by the contractor should be reviewed by the owner's engineer and the project architect. in the event that in the opinion of the owner's engineer and/or the project architect proof rolling is not a good indicator of the subgrade stability an alternative method shall be specified by the owner's engineer and/or the project architect.
5. Standards for fill areas:
   A. A "fill" area is defined as any area where material is required to adjust the existing elevation to a proposed subgrade elevation. These areas will require the installation of "engineered fill" to achieve design subgrade elevation. "Engineered fill" material can be defined as either "granular" and/or "soil" having their origin for either the construction site and/or "offsite material". Materials having their origin from the construction site is referred to as "borrow". The composition and the compaction standards of the engineered fill for this project will be specified by owner's engineer and the project architect.
   B. In "fill" areas will borrow materials are allowed to be utilized as engineered fill the site contractor shall compact the borrow to the specified compaction.
6. Compaction standards (for engineered fill and back filled areas)
   A. Prior to placement of fill in areas below design grade, the exposed subgrade should be observed by a representative of the owner's engineer to evaluate that adequate stripping has been performed. Additionally, the proof rolling or compacting procedures outlined in the "standards for cut areas" section of this cpi should be performed. It is typical practice to proof roll, and densify if necessary, exposed subgrades prior to filling. If soft or unstable subgrades are observed, these areas should be stabilized or undercut. minimum compaction standards are based upon a percentage of the fill or backfill material's maximum standard proctor dry density (ASTM specification D-698). All engineered subgrades should meet the following minimum compaction:
      A.1. Areas under pavement sections:
         A.1.A. 95% standard proctor for all fill placed more than 12 inches below passenger car pavement sections and 95% standard proctor for the top 12 inches.
      A.2. Landscaped areas:
         A.2.A. 90% standard proctor for all fill placed in landscape areas. These areas should be brought to grade with "topsoil" to a depth of 12 inches in areas to be seeded, 6 inches in areas to be sodded, and 24 inches for all interior curbed landscape islands.
      A.3. Base course portion of pavement sections:
         A.3.A. 95% standard proctor for all base course materials that are part of a "pavement section".
   B. Place all backfill and fill materials in layers that are not more than 8" in loose depth. before compacting, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to required percentage of maximum density of the area.
7. Finish grading:
   A. The term "finish grading" as used herein shall be defined as that condition that areas not receiving a finish product such as parking areas, driveways, roadways, sidewalks, etc. finish graded areas would generally be those areas receiving "landscaping" such as seed, sod, trees, bushes, mulch, etc.
   B. The site contractor is responsible for "finish grading" all areas within the perimeter of the "construction site". The definition of the "construction site" is the area encompassing all disturbed areas that were disturbed as a result of the construction process relating to the general contract which this site contract was part of.

GENERAL PAVING NOTES

1. All pavement shall be constructed in accordance with the following:
   A. Concrete pavement shall be constructed in accordance with the Illinois Department of Transportation (IDOT) "Standard Specifications for Road and Bridge Construction" (Standard Specifications), latest edition, including all updates and standards thereto.
   B. Standards and requirements of Village of Roscoe.
   C. Additional details and requirements provided in the contract documents, including this plan set.
2. All proposed pavement areas shall be stripped of all topsoil and unsuitable material and excavated or filled to within 0.10 feet of design subgrade.
3. The subgrade of pavement areas shall be free of all unsuitable material and shall be compacted to a minimum 95 per cent of Standard proctor density.
4. The subgrade shall be proof rolled, inspected and approved by the Village of Roscoe prior to placing the base material. Notify the engineer at least 48 hours prior to finished subgrade preparation.
5. The earthwork contractor shall be responsible for removal of spoil material from the underground contractors, preparing the roadway subgrade, proof rolled, placing topsoil to a minimum depth of 4 inches to finished grade in the parkways areas only, grading of drainage swales, and all other tasks as directed by the owner or engineer.
6. The quantities contained in these documents are approximate and estimated, and are presented as a guide to the contractor in determining the scope of work. It is the Contractor's responsibility to determine all quantities and to become familiar with the site and soil conditions.
7. The paving Contractor is responsible for the final subgrade preparation, proof rolling, the pavement base, binder, and surface, and all final clean-up and related work associated with the paving operation.
8. The proposed pavement shall be of the type and thickness as specified in the engineering drawings, and constructed in strict conformance with the previously referenced IDOT standard specifications and Village of Roscoe.
9. Areas of deficient paving, including compaction, smoothness, thickness, and asphalt mixture, shall be delineated, removed, and replaced in compliance with Specifications requirements unless corrected otherwise as directed and approved by the owner.
10. Field quality control tests specified herein will be conducted by the owner's Independent Testing Laboratory (ITL) at no cost to the contractor. Any testing and inspection resulting from the requirements of necessary permits by Village of Roscoe or the State of Illinois shall be at the contractor's expense. The contractor shall perform additional testing as considered necessary by the contractor for assurance of quality control. Retesting required as a result of failed initial tests shall be at the contractor's expense.
    A. Field testing, frequency, and methods may vary as determined by and between the owner, the ITL and Village of Roscoe.
    B. Testing shall be performed on finished surface of each asphalt concrete course for smoothness, using 10'-0" straightedge applied parallel with, and at right angles to centerline of paved area. The following tolerances in 10 ft shall not be exceeded: Base Course Surface: 1/4-inch, Wearing Course Surface: 1/8-inch.
    C. No ponding shall occur on paved surfaces.

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
5. AGENCY REVIEW	08-06-2024
6. AGENCY APPROVAL	11-25-2024
7. AGENCY APPROVAL	12-18-2024
8. ----	----
9. ----	----
10.----	----
11.----	----
12.----	----

REVISIONS

ITEM	DATE
1. ----	----
2. ----	----
3. ----	----
4. ----	----
5. ----	----
6. ----	----

SHEET TITLE

GENERAL NOTES

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C01

STORM SEWER NOTES

1. Storm sewer shall be constructed in accordance with the following:
   - A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), Seventh Edition dated 2014 (and all revisions and supplements thereto)
   - B. Standards and requirements of Village of Roscoe.
   - C. Additional details and requirements provided in the contract documents, including this plan set.

   Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
2. All storm sewer pipe shall be reinforced concrete pipe unless otherwise specified in this plan set.
3. All storm sewer system elements shall conform to the following specifications:
   - A. Storm pipe:
     - A.1. Sump pump service connection and storm sewer extension (4" and 6"):
       - A.1.a. ABS pipe shall be in accordance with ASTM D2751.
       - A.1.b. SDR 35 PVC pipe shall be in accordance with ASTM D3034.
     - A.2. Concrete sewer pipe (10" diameter and smaller) shall be Class III (minimum) in accordance with ASTM C14.
     - A.3. Reinforced circular concrete pipe (12" diameter and larger) shall be Class III (minimum), wall B, in accordance with ASTM C76.
     - A.4. Reinforced concrete arch culvert pipe shall be double-lined reinforced, Class III (minimum) in accordance with ASTM C506.
     - A.5. Reinforced concrete elliptical culvert pipe shall be Class HE-III or VE-III (minimum) in accordance with ASTM C507.
     - A.6. Underdrain pipe (4" and 6") shall be SDR 35 PVC pipe in accordance with ASTM D2729.
     - A.7. Galvanized corrugated steel culvert pipe shall be type B, with a minimum wall thickness of 14 gauge per AASHTO M246 (shall only be used for culverts).
   - B. Joints for storm pipe:
     - B.1. ABS pipe joints shall be in accordance with ASTM D2235.
     - B.2. PVC pipe joints shall be in accordance with ASTM 3121 (push-on type), except underdrain pipe, which shall have solvent welded joints.
   - C. Casing Pipes.
     - C.1. 1/4" thick steel in accordance with ASTM A252, grade 2, or ASTM A139, grade B, or approved equal having a minimum yield strength of 35,000 psi.
   - D. Manholes and Catch Basins:
     - D.1. Manholes and catch basins shall be precast reinforced concrete in accordance with ASTM C478.
     - D.2. Manholes and catch basins shall be sized as follows:
       - D.2.a. For sewers eighteen inches in diameter or less, manholes shall have a forty-eight inch inside diameter.
       - D.2.b. For sewers twenty-one to thirty-six inches in diameter, manholes shall have a sixty inch inside diameter.
       - D.2.c. For sewers greater than thirty-six inches in diameter, manholes shall have a seventy-two inch inside diameter or as specified in this plan set.
     - D.3. Adjusting rings:
       - D.3.a. No more than 2 precast concrete adjusting rings shall be allowed.
       - D.3.b. Precast concrete adjusting rings shall have a maximum height of 6 inches.
     - D.4. Seals:
       - D.4.a. For pipe and frame seals, all pipe connection openings shall be made watertight with hydraulic cement. The hydraulic cement sealing pipe connections shall extend the full thickness of the structure wall. Hydraulic cement shall also be applied within the structure from the cone section, past all adjustment rings, to the frame.
     - D.5. All bottom sections shall be monolithically precast including bases and invert flowlines.
   - E. Inlets.
     - a. Inlets shall be precast reinforced concrete in accordance with ASTM C478 and ASTM C443.
     - b. Inlets shall have a twenty-four inch inside diameter and a maximum depth of four feet.
     - c. Adjusting rings:
       - c.1. No more than 2 precast concrete adjusting rings shall be allowed.
       - c.a. Precast concrete adjusting rings shall have a maximum height of 6 inches.
     - d. Only one pipe connection shall be allowed, and it shall be precast with resilient rubber watertight pipe to manhole sleeves or seals. External flexible watertight sleeves shall also extend from the manhole cone to the manhole frame.
     - e. Bottom sections: All bottom sections shall be monolithically precast including bases and invert flowlines.
   - F. Castings (Unless otherwise noted within the plans):
     - F.1. Unless otherwise specified as a "closed lid", manhole frames and covers shall be as listed below. Close lid frame and covers shall be Neenah R-1916-C embossed "STORM SEWER".
       - e.a. Manhole steps shall be Neenah R-1981-N.
     - f. Six inch curb and gutter inlet shall be Neenah R-3278-A
     - g. Yard inlets shall be Neenah R-4340-B.
     - h. Parking lot inlets shall be Neenah R-2595-A.
   - G. Crushed Granular Bedding shall be crushed gravel or crushed stone course aggregate in accordance with ASTM C33 (Size No. 67).
4. All end sections 24" and greater shall come equipped safety bars per IDOT detail Standard 542411.
5. Inspect pipe for defects and cracks before being lowered into the trench, piece by piece. Remove and replace defective, damaged or unsound pipe or pipe that has had its grade disturbed after laying. Protect open ends with a stopper to prevent earth or other material from entering the pipe during construction. Remove dirt, excess water, and other foreign materials from the interior of the pipe during the pipe laying progress.
6. Install pipe in accordance with manufacturer's written recommendations.
7. Commence installation at the lowest point for each segment of the route. Lay RCP with the groove or bell end up-stream.
8. Lay pipe to the required line and slope gradients with the necessary fittings, bends, manhole, risers and other appurtenances placed at the required location as noted on Drawings.
9. All storm sewers under and within two feet of any existing or proposed pavement shall be backfilled with granular backfill material IDOT gradation FA-6 or approved equal (Grade 8 or Grade 9).
10. Compact backfill to 98 percent of maximum density in accordance with ASTM D698, (or 95 percent of maximum density, in accordance with ASTM D1557) obtained at optimum moisture as determined by AASHTO T180.
11. Do not backfill trenches until required tests are performed and utility systems comply with and are accepted by applicable governing authorities.
12. Backfill trenches to contours and elevations shown on the drawings.

SANITARY SEWER NOTES [FRSA]

1. Sanitary sewer notes:
   - A. The Four Rivers Sanitation Authority (FRSA) shall be notified forty-eight (48) hours before construction of the sanitary sewer can commence. Contact FRSA Survey and Field Operations Mgr. Ben Christiansen, cell 815-209-7952. Any sanitary sewer construction performed in the absence of an FRSA inspector will not be accepted.
   - B. Notice Allowing Connections must be issued by the FRSA before individual service connections will be permitted under the standard FRSA service connection permit process.
   - C. The permit holder is responsible for the sanitary sewer system workmanship and materials for two (2) years after the FRSA issued Notice Accepting the Sewer, and for the sanitary sewer trench settlement for a period of three (3) years after the completion of the project.
2. Sanitary Sewer shall be constructed in accordance with the following:
   - A. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Standard Specifications), seventh edition dated 2014, and all revisions and supplements thereto.
   - B. "General Provisions and Technical Specifications for Sanitary Sewer Construction" in the Four Rivers Sanitation Authority (formerly known as the Sanitary District of Rockford) dated October 24, 1983, and all standards and revisions adopted by the Board of Trustees for said Sanitary District of Rockford.
   - C. Additional details and requirements provided in the contract documents, including this plan set.

   Where criteria of the aforementioned specifications conflict, the more stringent criteria shall be implemented.
3. All PVC sanitary sewer (SDR 26 AND SDR 35) shall meet the requirements of ASTM D-3034 (4"-24") or ASTM F-679 (18"-24") with joints in accordance with ASTM D-3212. All PVC watermain-quality sanitary sewer (SDR 26) shall meet the requirements of ASTM D-2241 with joints in accordance with ASTM D-3139. Pipe bedding for all PVC pipe shall be Class 1A in accordance with ASTM D-2321-74.
4. Sanitary sewer services shall be 6" PVC/Watermain Quality SDR 26 in accordance with ASTM D-2241, and shall extend 3' past the property line of all lots. Joints between the wye and end of service riser shall be gasketed in accordance with ASTM D-3139. All services shall be sloped from the main at 1% minimum. Mark at property line with a 2x4 painted green. End of service risers are required in accordance with the FRSA standard details included in these plans.
5. WYE or TEE branches shall be a minimum 7' from the outside of any sanitary manhole and be furnished and installed by the Contractor as shown on the Engineering drawings.
6. All testing, fittings, bedding, granular cradle, and trench backfill where necessary shall be included in the unit costs for the installation of the underground facilities unless quantified on plans.
7. PVC pipe should be installed with proper bedding providing uniform longitudinal support under the pipe. Bedding material should be worked under the sides of the pipe to provide satisfactory haunching. Initial bedding material should be placed to a minimum depth of one foot over the top of the pipe. All pipe embedment material should be selected and placed carefully, avoiding large stones, frozen lumps, and debris.
8. After placement and compaction of pipe embedment materials, the balance of backfill materials may be machine placed and should contain no large stones or rocks, frozen material or debris. Excavated materials free from topsoil may be used in the final trench depth provided they are placed in 9" lifts loose measured and compacted to not less than 95% ASTM D-698 standard proctor.
9. All sanitary sewer manholes shall have eccentric cones with the cone openings centered over the pipe. All manholes shall be guaranteed by the contractor for 3 years after FRSA acceptance.
10. All sanitary sewer manholes shall be 48-inch diameter precast concrete, unless shown otherwise.
11. The allowable infiltration shall not exceed 200 gallons/inch diameter/mile/24 hours.
12. Sanitary sewers shall be air-tested in accordance with FRSA requirements.
13. All new sanitary sewer manholes shall be vacuum tested in accordance with ASTM C 1244.
14. All sanitary sewers under or within two feet of any existing or proposed street pavement or curb shall be backfilled with IDOT approved granular backfill material. Trench backfill shall be placed in lifts not to exceed 9" compacted to 95% of maximum standard proctor density.
15. Four Rivers Sanitation Authority shall be notified 48 hours prior to the start of construction and air testing of sanitary sewers. Water main, water services, and storm sewer must be installed and FRSA notified soon after installation before sanitary sewer testing can be performed.
16. Trenches must be backfilled to 2' below subgrade and mains and services must have 5' minimum depth of cover over the top of pipe before sanitary sewer testing can be performed.
17. Manhole frames shall be provided with self sealing lids, FRSA Logo, Neenah 1670-2004 /-0358 only. Neenah or East Jordan per FRSA Standard Details Sheet (Sheet C23).
18. Upon completion of construction, all sanitary manhole castings shall be exposed and set at final grade.
19. Exterior manhole seals shall be required on all new manholes including the barrel sections.
20. Deflection testing for flexible conduit.
    - A. All sanitary sewer lines shall be deflection-tested after 30 days following final backfill operations.
    - B. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the base diameter of the pipe as established in proposed ASTM D-3034. The test shall be performed without mechanical pulling devices.
    - C. Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.
    - D. Maximum allowable pipe deflection is 5%. Where deflection is found to be in excess of 5% of the original pipe diameter, the Contractor shall excavate to the point of excess deflection and carefully compact around the point excess deflection was found. The line shall then be retested for deflection. However, should after the initial testing the deflected pipe fail to return to the original size (inside diameter) the line shall be replaced.
21. Proposed sanitary sewers shall be separated at least 10' from existing and proposed water mains, water services, storm structures and storm sewers measured from outside edge to outside edge. The top of proposed sanitary sewers shall be at least 18" below the bottom of existing and proposed water mains and storm sewers. When sanitary sewer crosses over water main or storm sewer, the bottom of the sanitary sewer shall be at least 18" above the top of water main or storm sewer.
22. Where sanitary sewer depths exceed 12' the contractor shall use the Alternate Service Riser method to install the sewer service line so that the invert of the service, at the property line, is 10.5' below the proposed centerline grade.
23. Upon completion of construction all sanitary manhole castings shall be exposed and set to final grade. FRSA must inspect this work.
24. Exterior manhole seals will be required as part of manhole adjustments. Flattop manholes are not permitted. No adjusting rings are required outside a paved roadway or in a roadway with curb and gutter. All manholes adjusted or reconstructed where more than two rings are involved will require vacuum testing.
25. The Four Rivers Sanitation Authority will furnish a full-time inspector for all sanitary work.
26. All fill material in the area of sanitary sewer mains and services must be placed and compacted prior to installation of the sewer mains and services.
27. The Four Rivers Sanitation Authority specifies the following for manhole adjustment requirements:
    - A. A minimum of 4" of adjusting rings (4" adjusting ring not required in turf areas or in full curb and gutter roadways)
    - B. A maximum of 12" of adjusting rings
    - C. A maximum of 1- 12" adjusting ring per manhole.
    - D. A maximum of 30" from the top of casting to the first step

    Notes: Adjustment by grouting is not permitted. Where the roadway agency of jurisdiction allows, rubber adjusting rings shall be used
28. Labeled pipe lengths are from center of manhole to center of manhole.
29. The length of the public sewer shall be the distance from the center of the downstream manhole to the center of the upstream manhole. The slope of the public sewer and inverts of the sewer at the manholes shall be based on the distance between the outside faces of the manholes.

Sanitary Sewer Service Connection

1. Contractor must complete a standard FRSA Industrial/Commercial (I/C) application and submit to FRSA for approval of the sewers shown as part of the building connection permitting process.
2. The contractor shall coordinate all FRSA fees associated with this project. the contractor shall pay all application fees, and should be reimbursed by the owner. Contractor shall provide the owner with a written breakdown of all FRSA fees with evidence of payment.
3. FRSA will require inspection of the sewer installation. Contractor shall coordinate this work directly with FRSA. Owner shall pay for all inspection fees.
4. All sanitary sewer, manholes, services and other appurtenances shall be installed as required by the FRSA and/or the Village contractor is responsible for familiarizing himself with the specific requirements for materials and construction for these two agencies.
5. The Village of Roscoe may also require inspection of the building connections. the contractor shall coordinate all Village inspections with the Roscoe building inspector, if needed.
6. Contractor to install 6" services from main to designated point of connection as shown on the plans as part of sewer installation.
7. FRSA sanitary sewer service connection permits will not be issued under the Standard FRSA process until after the FRSA has issued a "Notice Allowing Connections".

SUMMARY OF QUANTITIES

ITEM	UNIT	TOTAL QUANTITY	100% PRIVATE FUNDED	100% COUNTY FUNDED
TOPSOIL STRIPPING AND STOCKPILING (12" ASSUMED)	CU YD	23428	23128	300
EARTH EXCAVATION, CUT TO FILL	CU YD	49351	48651	700
ROCK EXCAVATION	CU YD	800	800	0
TOPSOIL PLACEMENT FOR TURF (6" ASSUMED)	CU YD	6865	6715	150
SEEDING, CLASS 1A	ACRE	7.62	7.40	0.22
SEEDING, CLASS 3	ACRE	0.92	0.92	0
NITROGEN FERTILIZER NUTRIENT	POUND	769	749	20
PHOSPHORUS FERTILIZER NUTRIENT	POUND	769	749	20
POTASSIUM FERTILIZER NUTRIENT	POUND	769	749	20
EROSION CONTROL BLANKET	SQ YD	31660	30609	1051
SILT FENCE	FOOT	6120	5920	200
INLET AND PIPE PROTECTION	EACH	29	27	2
TEMPORARY CHECK DAM	EACH	6	6	0
STONE RIPRAP, CLASS RR5	SQ YD	50	50	0
FILTER FABRIC FOR RIPRAP	SQ YD	50	50	0
STABILIZED CONSTRUCTION ENTRANCE	SQ YD	133	133	0
PAVEMENT REMOVAL	SQ YD	402	275	127
REMOVE CMP CULVERT PIPE 15"	FOOT	30	30	
REMOVE METAL END SECTION 15"	EACH	2	2	
AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	9325	8791	534
BITUMINOUS MATERIALS (PRIME COAT)	POUND	5820	5660	160
BITUMINOUS MATERIALS (TACK COAT)	POUND	2153	2153	0
REFLECTIVE CRACK CONTROL	FOOT	3540	3269	271
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"	SQ YD	3250	2516	734
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 1.5"	SQ YD	3250	2516	734
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50, 3"	SQ YD	7975	7975	0
HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	259	259	0
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	110	110	0
COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 (MODIFIED)	FOOT	2567	2567	0
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	604	0	604
CONCRETE FLUME	CU YD	2	0	2
TRAFFIC CONTROL COMPLETE (OLD RIVER ROAD)	LSUM	1	0.5	0.5
STOP SIGN, 30" ON WOOD POST	EACH	2	1	1
PAINT PAVEMENT MARKING - LINE 24"	FOOT	38	0	38
PAINT PAVEMENT MARKING - LINE 12"	FOOT	67	67	0
PAINT PAVEMENT MARKING - LINE 8"	FOOT	289	124	165
PAINT PAVEMENT MARKING - LINE 4"	FOOT	3736	3523	213
PAINT PAVEMENT MARKING - SYMBOLS	SQ FT	56	28	28
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	0
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	1	1
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1	0
STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	642	617	25
STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	142	142	0
STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	1339	963	376
STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	276	276	0
STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	279	279	0
TRENCH BACKFILL FOR STORM SEWER	CU YD	195	125	70
INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1	0
INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	3	3	0
INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0
INLET SPECIAL NO. 3	EACH	1	1	0
INLET SPECIAL NO. 5	EACH	4	4	0
INLET 700	EACH	3	2	1
DOUBLE INLET 700	EACH	4	4	0
TRIPLE INLET 700	EACH	1	1	0
2' X 3' BOX W/ NEENAH R-1878-B7G FR & GR	EACH	1	1	0
MANHOLE TYPE A, 4' DIA. W/ TYPE 1 FRAME CLOSED LID	EACH	1	0	1
MANHOLE TYPE A, 4' DIA. W/ TYPE 1 FRAME OPEN LID	EACH	4	4	0
MANHOLE TYPE A, 5' DIA. W/ DEPRESSED FRAME & GRATE	EACH	1	1	0
MANHOLE TYPE A, 6' DIA. W/ TYPE 1 FRAME OPEN LID	EACH	2	2	0
CORRUGATED METAL PIPE, 15"	FOOT	37	37	0
METAL END SECTION, 15"	EACH	2	2	0

ITEM	UNIT	TOTAL QUANTITY	100% PRIVATE FUNDED	100% COUNTY FUNDED
FIRE HYDRANT TO BE RELOCATED	EACH	1	1	0
FIRE HYDRANT ASSEMBLY COMPLETE W/ TEE, VALVE & LEAD	EACH	6	6	0
REMOVE VALVE BOX	EACH	1	1	0
WATER MAIN TEE 8" X 8"	EACH	2	2	0
TAPPING SLEEVE 12" X 6" W/ 6" VALVE & BOX	EACH	1	1	0
WATER VALVE 8"	EACH	7	7	0
REMOVE D.I. WATER MAIN REDUCER 12" X 6"	EACH	1	1	0
D.I. WATER MAIN REDUCER 12" X 8"	EACH	1	1	0
ZINC COATED D.I. WATER MAIN, 8", WITH BAG	FOOT	2604	2604	0
HDPE WATER SERVICE LINE 1"	FOOT	800	800	0
TYPE K COPPER WATER SERVICE LINE 2"	FOOT	464	464	0
TRENCH BACKFILL FOR WATER MAIN/SERVICE	CU YD	1500	1500	0
CORPORATION STOPS 1"	EACH	16	16	0
CORPORATION STOPS 2"	EACH	25	25	0
DOMESTIC WATER SERVICE BOX, 1"	EACH	16	16	0
DOMESTIC WATER SERVICE BOX, 2"	EACH	25	25	0
CONNECT TO EXISTING WATER MAIN	EACH	2	2	0
11.25-DEGREE BEND, 8"	EACH	2	2	0
22.5-DEGREE BEND, 8"	EACH	1	1	0
45-DEGREE BEND, 8"	EACH	18	18	0
WATER MAIN PROTECTION SLEEVE, 6"	FOOT	220	220	0
WATER MAIN PROTECTION SLEEVE, 16"	FOOT	165	165	0
REMOVE 2" KUPFERLE MAIN GUARD #77 HYDRANT W/ 8" X 2" MJ TAPPED PLUG	EACH	1	1	0
CONNECT TO EXISTING SANITARY MANHOLE	EACH	1	1	0
4' DIA. SANITARY MANHOLE	EACH	9	9	0
5' DIA. SANITARY MANHOLE W/ INSIDE DROP	EACH	1	1	0
PVC SDR 35 / ASTM D-3034 SANITARY, 8"	FOOT	2354	2354	0
PVC SDR-26 WMQ / ASTM D-2241 SANITARY, 4"	FOOT	498	498	0
PVC SDR-26 WMQ / ASTM D-2241 SANITARY, 6"	FOOT	724	724	0
TRENCH BACKFILL FOR SANITARY SEWER	CU YD	4169	4169	0
8' X 4" WYE CONNECTION	EACH	16	16	0
8' X 6" WYE CONNECTION	EACH	27	27	0
SANITARY CLEANOUT, 4"	EACH	16	16	0
SANITARY CLEANOUT, 6"	EACH	27	27	0
PCC SIDEWALK, 4" OVER 4" STONE BASE (BY OWNER)	SQ FT	12487	12487	0
DRIVEWAY APRON IN R.O.W. (2" HMA OVER 8" STONE) (BY OWNER)	SQ YD	608	608	0
4" PVC UTILITY SLEEVES (ALLOWANCE)	FOOT	100	100	0
STREET LIGHT (BY COM ED - COORDINATED BY OWNER)	EACH	1	1	0
LANDSCAPING ALLOWANCE (BY OWNER)	LSUM	1	1	0
PRIVACY FENCE BASE BID (BY OWNER)	FOOT	1026	1026	0

APPROXIMATE EARTHWORK VOLUME SUMMARY

	CUT	FILL	NET
STRIP TOPSOIL (EX - 12")	23,128	0	23,128 (CUT)
OLD RIVER RD WIDENING (FG - 14.5")	0	134	134 (FILL)
OLD RIVER RD SHOULDER (FG - 4")	0	141	141 (FILL)
SIDEWALKS (FG - 8")	207	505	298 (FILL)
RESIDENTIAL STREETS (FG - 13")	1,888	4,281	2,393 (FILL)
HOMES (FG - 12")	4,351	14,587	10,236 (FILL)
GRASS AREAS (FG - 6")	14,037	29,003	14,966 (FILL)
UTILITY SPOILS	5,064	0	5,394 (CUT)
TOTAL:	**48,675**	**48,651**	**354 (CUT)**

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
5. AGENCY REVIEW	08-06-2024
6. AGENCY APPROVAL	11-25-2024
7. AGENCY APPROVAL	12-18-2024
8. ----	----
9. ----	----
10. ----	----
11. ----	----
12. ----	----

REVISIONS

ITEM	DATE
1. ----	----
2. ----	----
3. ----	----
4. ----	----
5. ----	----
6. ----	----

SHEET TITLE

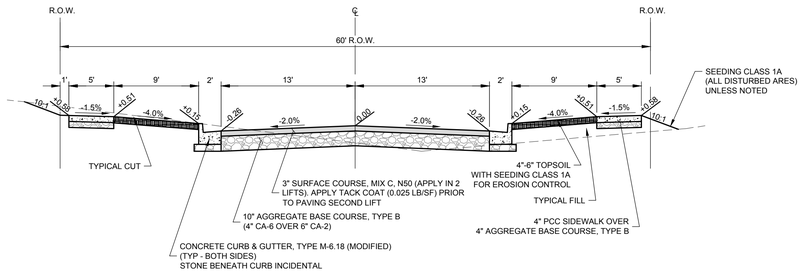
GENERAL NOTES & SUMMARY OF QUANTITIES

DRAWN	DB
CHECKED	JSL
PM	JSL

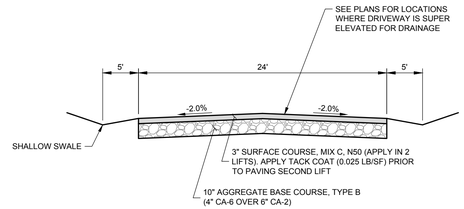
PROJECT NUMBER
SHEET NUMBER

22214

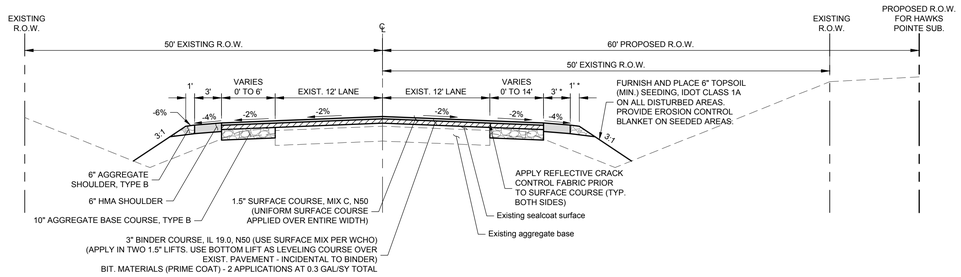
C02



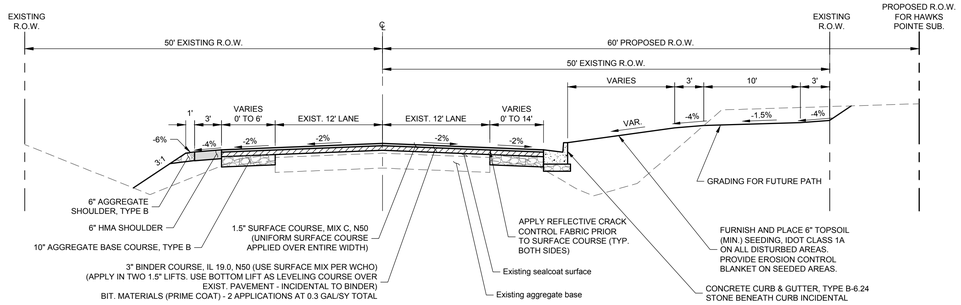
TYPICAL SECTION - SPARROW LANE



TYPICAL SECTION - PRIVATE DRIVES
(COOPER DRIVE)



TYPICAL SECTION - OLD RIVER ROAD STA. 18+54.65 TO 22+00



TYPICAL SECTION - OLD RIVER ROAD STA. 22+00 TO 25+25

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REVISIONS

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SHEET TITLE

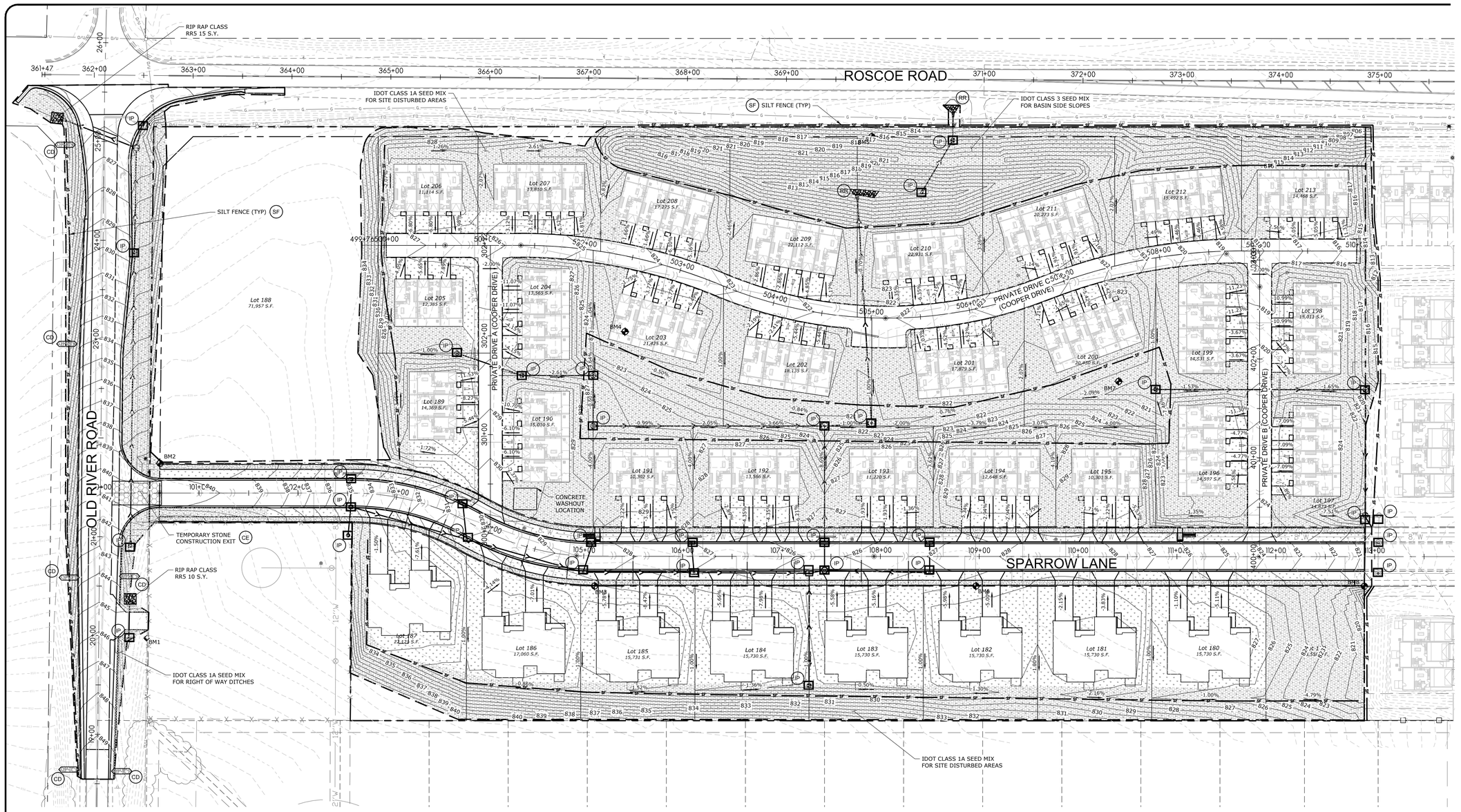
TYPICAL SECTIONS

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C02A



LEGEND

SEE SITE PLAN SET FOR EXISTING SYMBOLS

- PROPERTY LINE
- LIMITS OF DISTURBANCE
- PERMANENT STORM SEWER FLOWING TO THE LEFT. SEE SITE DRAINAGE PLAN FOR PERMANENT STORM SEWER INFORMATION
- 800 PROPOSED CONTOUR LINE
- 800 EXISTING CONTOUR LINE
- PROPOSED CURB AND GUTTER
- PROPOSED CATCH BASIN OR MANHOLE
- DIRECTION OF OVERLAND FLOOD ROUTE
- DIRECTION OF OVERLAND FLOW AND SLOPE
- GRASS AREA (SEE PLAN NOTES FOR SEED TYPE)
- X.XX SEE SPECIFIC KEY NOTE ON THIS SHEET

EROSION DETAILS (SEE SWPPP DETAILS SHEET FOR ITEMS BELOW)

- 1.01 CE — TEMPORARY STONE CONSTRUCTION EXIT
- 1.02 SF — TEMPORARY SILT FENCE
- 1.03 IP — INLET PROTECTION PER STRUCTURE TYPE
- 1.04 BLS — SHORT TERM SLOPE EROSION CONTROL BLANKET
- RR — RIP RAP CLASS RR5
- CD — TEMPORARY CHECK DAM

EROSION CONTROL REFERENCE NOTES

1.01 SEE CONSTRUCTION EXIT DETAIL IL-630 FROM THE ILLINOIS URBAN MANUAL (THIS DETAIL AND OTHERS CAN BE FOUND IN THE SWPPP BINDER FOR THIS SITE). THE CONSTRUCTION EXIT SHALL BE A MINIMUM OF 24' IN WIDTH AND 50' FEET IN LENGTH FROM EXISTING PAVED SURFACE. ALL CONSTRUCTION TRAFFIC MUST UTILIZE CONSTRUCTION EXITS PER DETAIL TO ACCESS THE PUBLIC ROAD. DURING CONSTRUCTION, THE CONSTRUCTION EXITS MAY BE SHIFTED AT THE CONTRACTOR'S DISCRETION TO FACILITATE GRADING OPERATION. EXIT MUST TERMINATE AT EXISTING PAVED SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE RUNOFF FROM THE CONSTRUCTION EXIT IS DIRECTED BACK TOWARD THE SITE OR THAT THE RUNOFF IS CLEAR OF SEDIMENT.

1.02 THE CONTRACTOR MAY PERMANENTLY REMOVE ANY PORTION OF THE PERIMETER SILT FENCE AFTER ESTABLISHMENT OF FINAL GRADE AND/OR FINAL STABILIZATION RENDERS THE RESPECTIVE PORTION OF THE PERIMETER SILT FENCE UPSTREAM OF A DISTURBANCE AND/OR INEFFECTIVE AS A BEST MANAGEMENT PRACTICE. ANY SUCH REMOVAL SHALL BE NOTED ON THE SWPPP SITE MAPS ALONG WITH UPSTREAM STABILIZATION AND GRADING CONDITIONS.

1.03 NO STRUCTURE SHALL BE ALLOWED TO BE PROTECTED WITH ANY MEASURE OTHER THAN THOSE DETAILED IN THIS SWPPP SITE MAP FOR MORE THAN 48 HOURS OR IF RAIN IS IMMINENT. STRUCTURES THAT WILL NOT RECEIVE A CASTING WITHIN 48 HOURS OF INSTALLATION SHALL RECEIVE INLET PROTECTION. UPON INSTALLATION OF THE GRATE, INLET PROTECTION SHALL BE INSTALLED RESPECTIVE TO THE TYPE OF GRATE. STRUCTURES WITH CLOSED LIDS WILL NOT REQUIRE PROTECTION FOLLOWING INSTALLATION OF LID. CONTRACTOR SHALL NOTE TIME STRUCTURE INSTALLATION (AND PROTECTION INSTALLATION, INCLUDING TYPES OF PROTECTION) ARE EMPLOYED. WHENEVER PIPE INSTALLATION IS HALTED FOR MORE THAN 24 HOURS OR WHEN RAIN IS IMMINENT, THE OPEN END SHALL BE PROTECTED WITH A TEMPORARY BULK HEAD. A 3/4" SHEET OF PLYWOOD THAT EXTENDS 6" BEYOND THE OUTSIDE DIAMETER OF THE PIPE SHALL BE PLACED AGAINST THE EXPOSED PIPE END. GRAVEL SHALL BE PLACED AGAINST THE PLYWOOD IN SUFFICIENT QUANTITY SO AS TO ENSURE THE TIGHTEST POSSIBLE SEAL. THE TRENCH SHALL BE DEWATERED PRIOR TO REMOVING THE BULKHEAD.

1.04 SHORT TERM EROSION CONTROL FABRIC NAG SC150 SHALL BE APPLIED TO ALL SLOPES 4:1 OR STEEPER THAN 4:1 PRIOR TO PERMANENT SEEDING. FOLLOW MANUFACTURER SPECIFICATIONS FOR INSTALLATION. CONTRACTOR SHALL NOTE ALL AREAS WHERE NAG SC150 HAS BEEN INSTALLED RELATIVE TO ASBUILT GRADES AND FURNISH THESE BOUNDARIES TO THE CIVIL ENGINEER UPON REQUEST. PERMANENT SEEDING SHOULD BE PLANTED AS SOON AS IT IS PRACTICAL TO ENSURE PROPER GERMINATION PRIOR TO TERMINATION OF PERMIT COVERAGE. THE CONTRACTOR SHALL PLANT PERMANENT SEEDING AS SPECIFIED ON THE LANDSCAPING PLAN AS SOON AS FINAL BASIN GRADES ARE ESTABLISHED AS SPECIFIED ON THE GRADING PLAN. SEE SITE LANDSCAPING PLAN FOR EXACT GROUND COVER TYPE AND LOCATION.

1.05 OFFSITE UTILITY TRENCHING SPOILS MUST BE TREATED AS STOCKPILES FOR SWPPP PURPOSES. BMP'S MUST PROTECT THE SIDE OF THE SPOIL STOCKPILE THAT IS FARTHEST AWAY FROM THE TRENCH. INTERMEDIATE BMP'S SHALL BE LOCATED IN THE FIELD TO PREVENT DOWNSTREAM SEDIMENT RUNOFF. NO MORE THAN 100 LF OF TRENCH MAY REMAIN OPEN AT ANY ONE TIME. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRADE AND VEGETATION THROUGHOUT THE DISTURBED AREA. THE CONTRACTOR SHALL ENSURE THAT THE OFFSITE WORK ZONES POSE NO PUBLIC SAFETY HAZARDS.

N O R T H
0 50' 75' 100'

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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REVISIONS

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SHEET TITLE

SWPPP SITE MAP

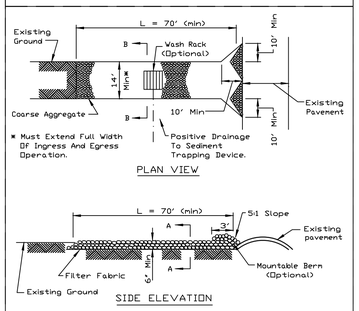
DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C03

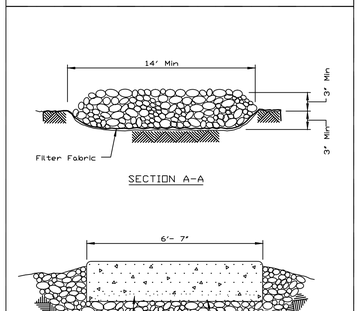
STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class **I**, **II** or **IV** and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class **III** compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

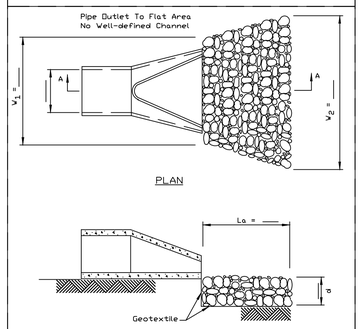
REFERENCE		STANDARD SVG. NO.
Project		IL-630
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE		STANDARD SVG. NO.
Project		IL-630
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 2 OF 2
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

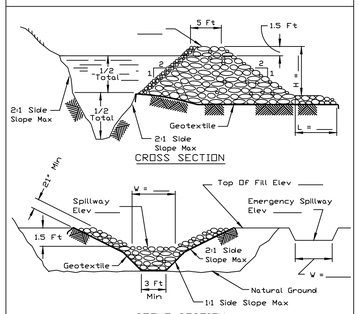
PIPE OUTLET TO FLAT AREA



NOTES:
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class **I**, **II** or **III**.
2. The rock riprap shall shall meet the IDOT requirements for the following gradation RR _____, Quality _____.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

REFERENCE		STANDARD SVG. NO.
Project		IL-610
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 9-15-93
Approved ____ Date ____		

TEMPORARY SEDIMENT TRAP

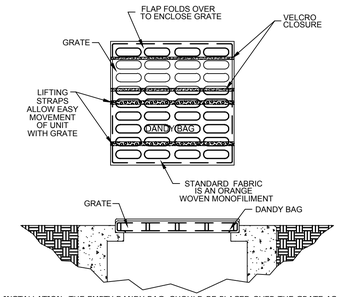


NOTES:
1. If the sediment pool is formed or enlarged the side slope will be 2:1 or flatter.
2. The fill shall be constructed using IDOT RR-4 stone size. A 1'layer of IDOT CA-2 should be placed on the inside face to reduce the flow rate.
3. The rock will be placed according to construction specification 25 ROCKFILL. Placement will be by Method 1 and compaction will be class **III**.
4. The geotextile shall meet the requirements in material specification 592 GEOTEXTILE table 1 or 2, class **I**, **II** or **IV**.

REFERENCE		STANDARD SVG. NO.
Project		IL-660
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 11-20-01
Approved ____ Date ____		

TEMP. DANDY PRODUCTS, INC. DANDY BAG

NOT TO SCALE

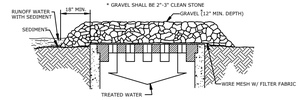


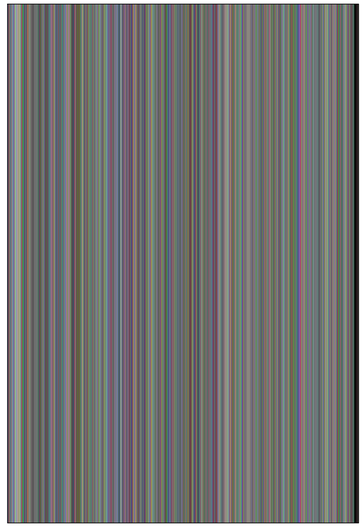
INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

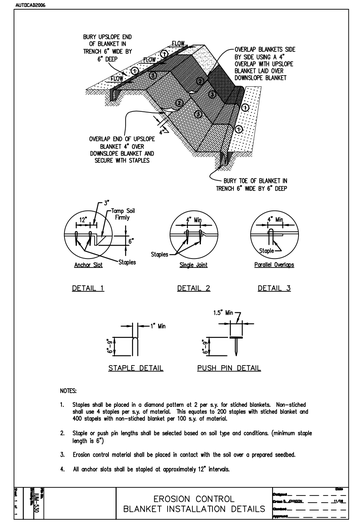
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

TEMP. GRAVEL AND WIRE MESH INLET SEDIMENT FILTER

NOT TO SCALE

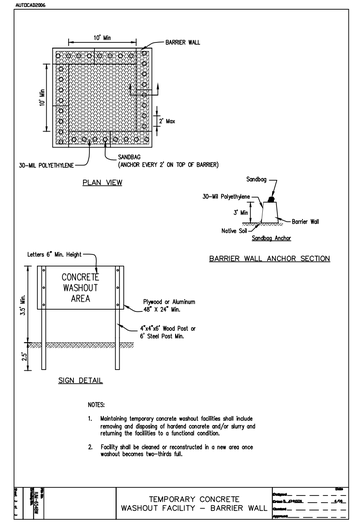






NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS

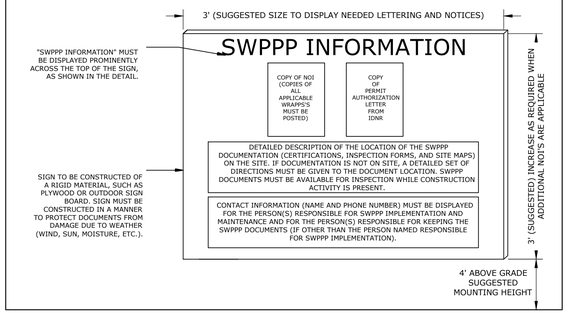


NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL

SWPPP INFORMATION SIGN (EXAMPLE)

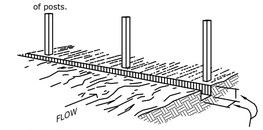
NOT TO SCALE



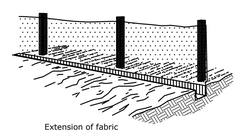
TEMP. SILT FENCE (PERIMETER) DETAIL

NOT TO SCALE

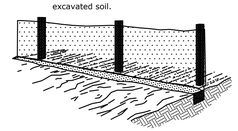
1. Set posts and excavate a 4"x4" trench upslope along the line of posts.



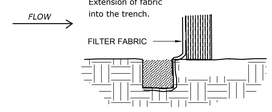
2. Attach the filter fabric to the post and extend it into the trench.



3. Backfill and compact the excavated soil.



Extension of fabric into the trench.



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PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

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SHEET TITLE

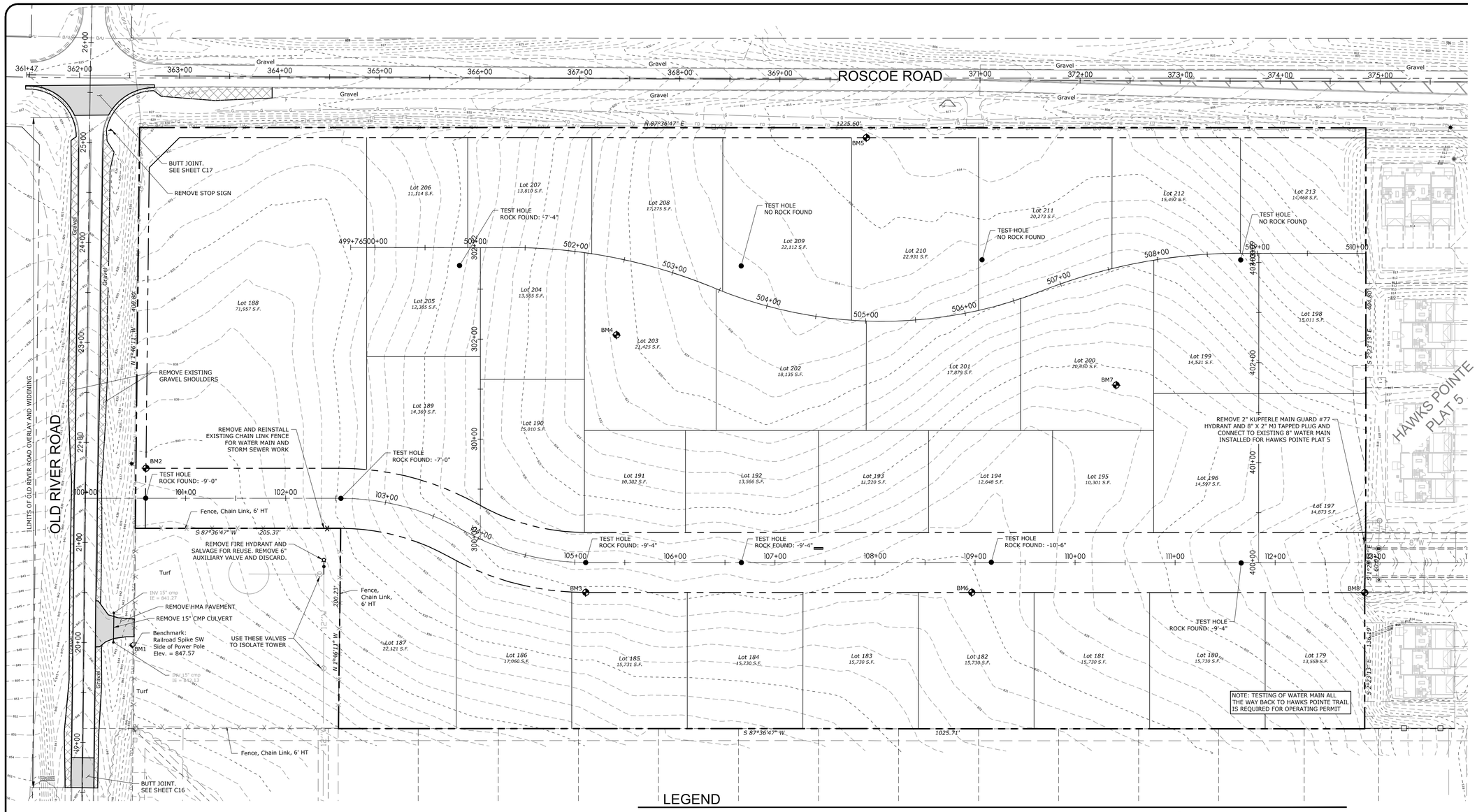
SWPPP DETAILS

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C04



CONTRACTOR SHALL HOLD A PRECONSTRUCTION MEETING WITH NORTH PARK PUBLIC WATER DISTRICT PRIOR TO ANY WATER MAIN WORK ON TOWER PROPERTY TO COORDINATE SHUTDOWN SEQUENCE AND TIMING. SEE ALSO C09 FOR NEW WORK.

SITE BENCHMARKS

DESCRIPTION	ELEVATION (NAVD 88)	DESCRIPTION	ELEVATION (NAVD 88)
BENCHMARK 1 RAILROAD SPIKE SW SIDE OF POWER POLE STA. 100+46.85, 146.96' R	847.57	BENCHMARK 5 SET 3/4" ROD IN GROUND STA. 107+91.29, 424.83' L	814.11
BENCHMARK 2 SET 3/4" ROD IN GROUND STA. 100+60.25, 30.00' L	840.40	BENCHMARK 6 SET 3/4" ROD IN GROUND STA. 108+96.66, 29.97' R	830.09
BENCHMARK 3 SET 3/4" ROD IN GROUND STA. 105+10.89, 30.03' R	830.06	BENCHMARK 7 SET 3/4" ROD IN GROUND STA. 110+40.95, 177.31' L	826.09
BENCHMARK 4 SET 3/4" ROD IN GROUND STA. 105+41.58, 227.40' L	820.63	BENCHMARK 8 SET 3/4" ROD IN GROUND STA. 112+89.50, 29.94' R	817.96

BENCHMARKS ESTABLISHED FROM WinGIS MONUMENTATION: WinGIS STATION # 38 WIN 18.1N-7.1E, ELEVATION = 734.185

LEGEND

- PROPERTY LINE
- LOT LINE
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT LINE
- EXISTING CURB AND GUTTER
- EXISTING CURB AND GUTTER TO BE REMOVED
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING SANITARY SEWER TO BE REMOVED
- EXISTING STORM SEWER TO REMAIN
- EXISTING STORM SEWER TO BE REMOVED
- EXISTING WATER TO REMAIN
- EXISTING WATER TO BE REMOVED
- EXISTING OVERHEAD UTILITIES TO REMAIN
- EXISTING OVERHEAD UTILITIES TO BE REMOVED
- EXISTING GAS MAIN TO REMAIN
- EXISTING GAS MAIN TO BE REMOVED
- EXISTING FENCE TO REMAIN
- EXISTING FENCE TO BE REMOVED
- EXISTING CONTOUR LINE
- EXISTING GRAVEL TO BE REMOVED
- EXISTING HMA PAVEMENT TO BE REMOVED
- (TBR) "TO BE REMOVED"
- (SVG) "SALVAGE"
- (TYP) "TYPICAL" FOR ALL SIMILAR ITEMS
- EXISTING WATER TO REMAIN
- EXISTING WATER TO BE REMOVED
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- EXISTING GAS METER TO REMAIN
- EXISTING GAS METER TO BE REMOVED
- EXISTING ELECTRIC METER TO REMAIN
- EXISTING ELECTRIC METER TO BE REMOVED
- EXISTING STORM SEWER TO REMAIN
- EXISTING STORM SEWER TO BE REMOVED
- EXISTING SANITARY SEWER TO REMAIN
- EXISTING SANITARY SEWER TO BE REMOVED
- BENCHMARK
- EXISTING LIGHT POLE TO REMAIN
- EXISTING LIGHT POLE TO BE REMOVED
- EXISTING SHRUBS TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN

N O R T H
0 50' 75' 100'

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SHEET TITLE

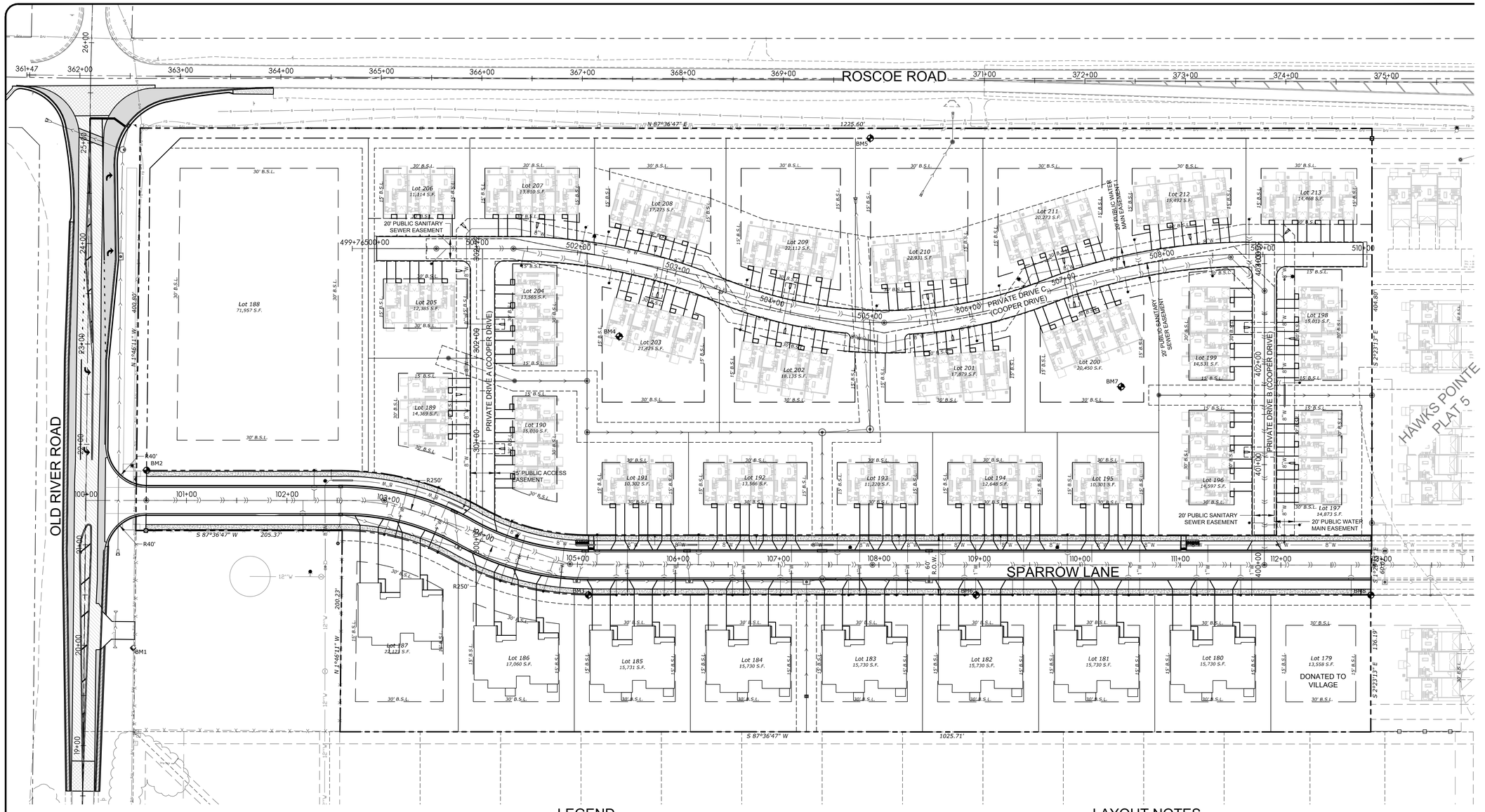
EXISTING CONDITIONS & REMOVALS PLAN

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C05



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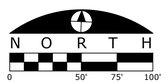
- EXISTING RIGHT-OF-WAY
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING WATER MAIN
- PROPOSED WATER SERVICE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- EXISTING FIRE HYDRANT ASSEMBLY
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING MANHOLE OR CATCH BASIN
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED SITE HMA PAVEMENT 3" HMA SURFACE / 10" AGGREGATE BASE
- PROPOSED 4.5" HMA OVERLAY 1.5" HMA SURFACE / 3" HMA BINDER
- PROPOSED HMA WIDENING 1.5" HMA SURFACE / 3" HMA BINDER / 10" AGGREGATE BASE
- PROPOSED BUTT JOINT

LAYOUT NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
3. DIMENSIONS THAT LOCATE THE BUILDING ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
4. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
5. COORDINATE WORK WITHIN OLD RIVER ROAD ROW WITH THE WINNEBAGO COUNTY HIGHWAY DEPARTMENT (WCHD). TRAFFIC CONTROL SHALL CONFORM TO IDOT STANDARDS FOR WORK WITHIN THE R.O.W.
6. ALL RADII ARE DIMENSIONED TO THE BACK OF CURB.
7. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED PAVEMENT, CURB AND SIDEWALKS MEET EXISTING PAVEMENT, CURB AND SIDEWALKS. REVIEW ANY REQUIRED CHANGES WITH ENGINEER PRIOR TO CONSTRUCTION OF WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION, COORDINATION AND OBTAINING APPROVAL OF A TRAFFIC MANAGEMENT PLAN IF CLOSURES OF LANES EXCEED THE THE CRITERIA ESTABLISHED IN THE BDE MANUAL.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING WCHD AT (815) 319-4000 SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING WORK WITHIN THE COUNTY ROW AND UPON COMPLETION OF SAID WORK.



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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
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REVISIONS

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SHEET TITLE

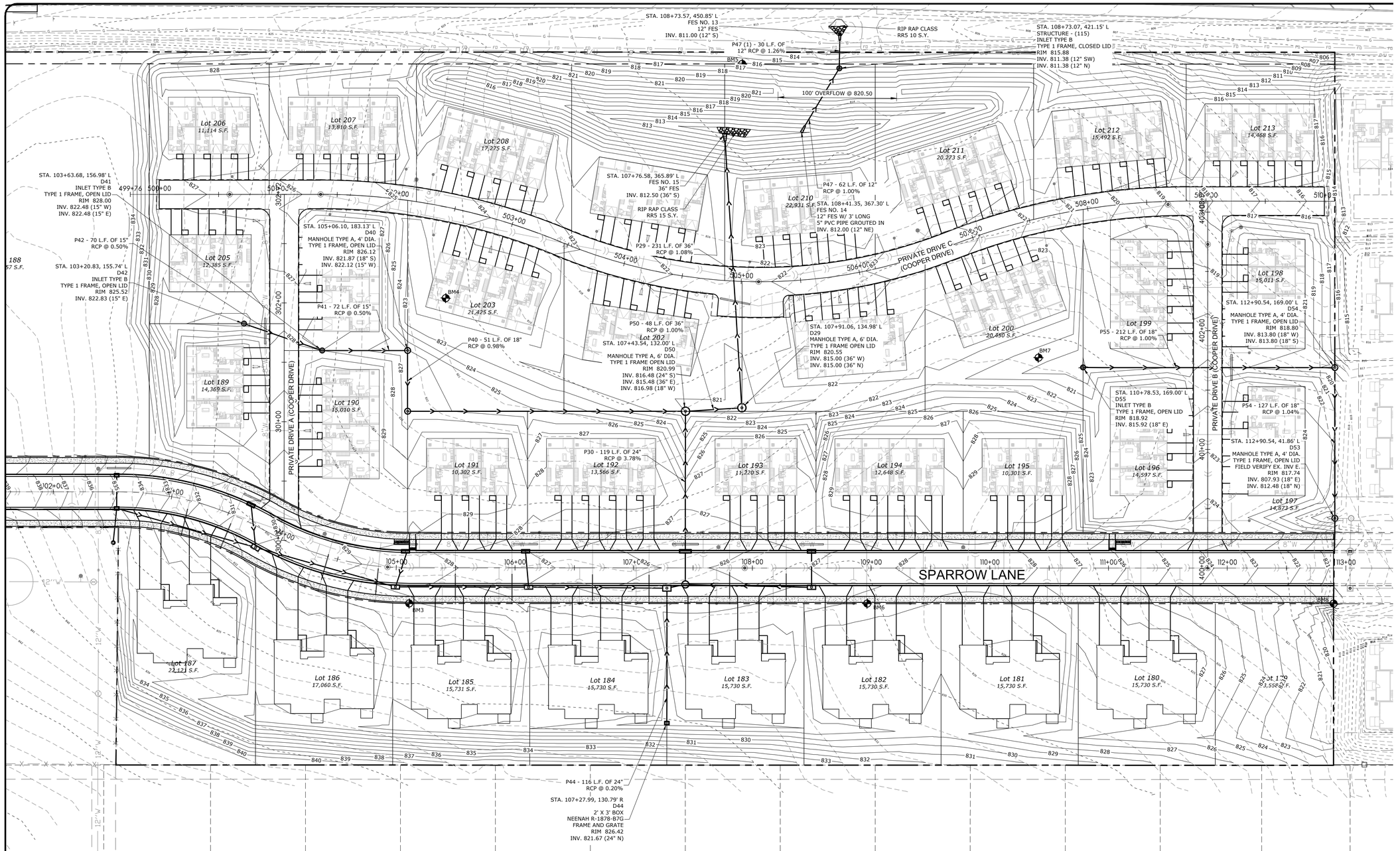
SITE OVERVIEW PLAN

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C06



SEE PLAN & PROFILE SHEETS FOR ROADWAY STORM SEWER DESIGN INFORMATION

GRADING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION AND ELEVATION OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL OR VERTICAL CONTROL BY REFERENCING SHOWN COORDINATES OR ELEVATIONS TO HORIZONTAL OR VERTICAL CONTROL POINTS PRIOR TO PROCEEDING WITH WORK.
2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND SODDED (OR SEEDED WHERE NOTED) AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
3. ALL STORM SEWER PIPE IS TO BE REINFORCED CONCRETE CULVERT PIPE CLASS IV UNLESS OTHERWISE NOTED. WHERE HDPE OR PVC PIPE IS LISTED AS ACCEPTABLE MATERIALS, PVC SDR 35, HDPE DOUBLE WALL (ADS N-12), OR PVC SCHEDULE 40 MAY BE USED AT THE CONTRACTOR'S DISCRETION.
4. THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES IS 3 HORIZONTAL TO 1 VERTICAL.
5. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL SET ALL CLEANOUT, MANHOLE AND INLET CASTINGS, FIRE HYDRANTS AND VALVE BOXES TO FINISHED GRADE.
7. ALL PROPOSED PAVED AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND EXCAVATED OR FILLED TO WITHIN 0.10 FEET OF DESIGN SUBGRADE.
8. THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE CONCLUSION OF EACH WORKING DAY.

N O R T H
0 40' 60' 80'

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HAWKS POINTE PLAT 6

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SHEET TITLE

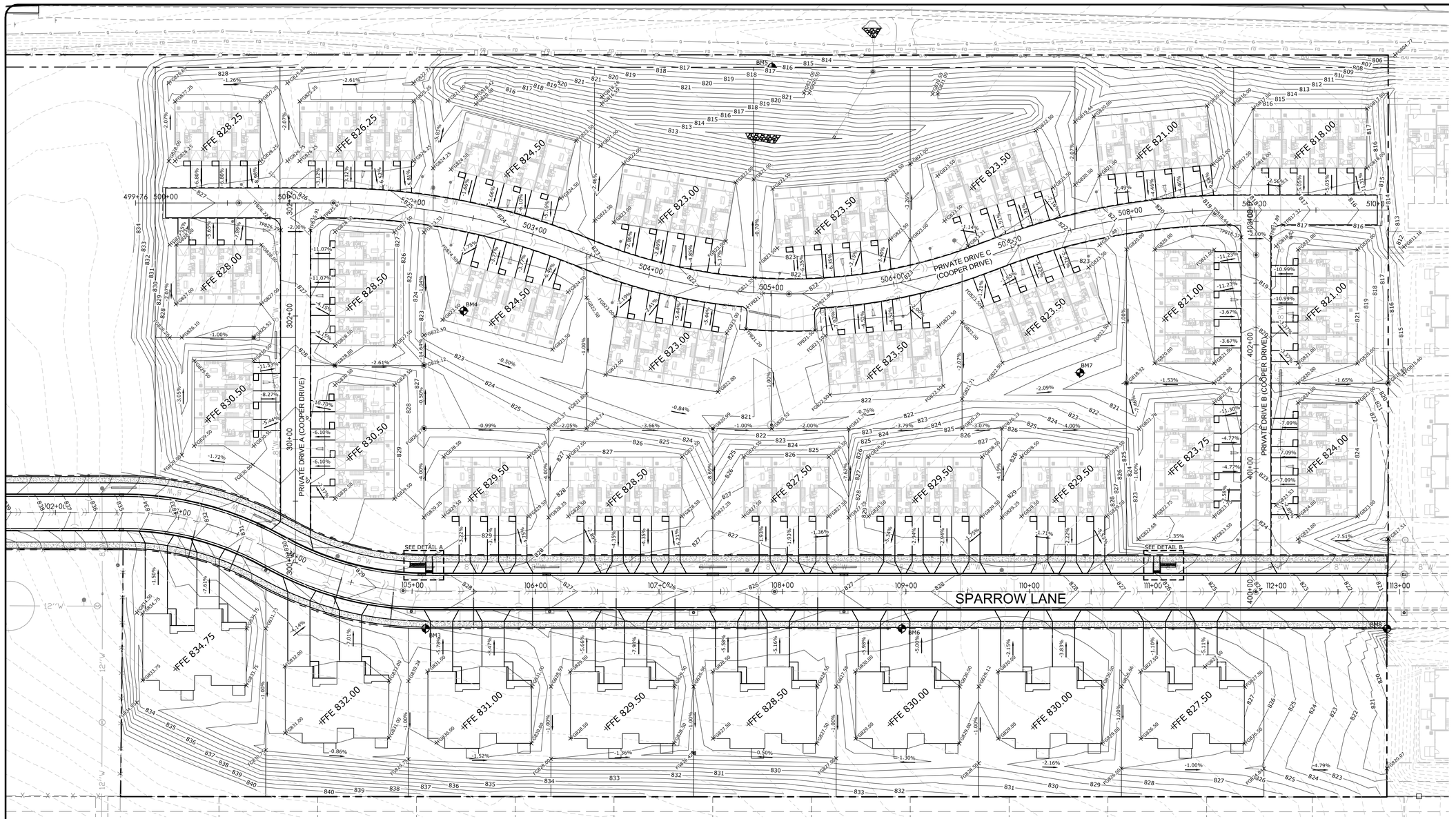
SITE GRADING PLAN

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

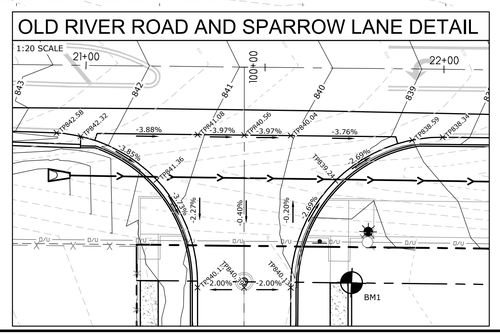
22214

C07



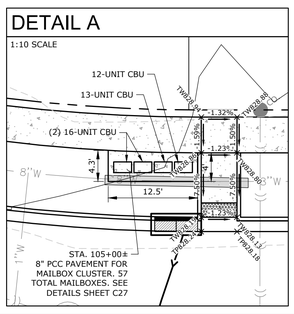
OLD RIVER ROAD AND SPARROW LANE DETAIL

1:20 SCALE



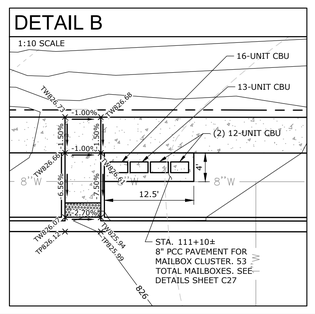
DETAIL A

1:10 SCALE



DETAIL B

1:10 SCALE



N O R T H

0 40' 60' 80'

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PROJECT NAME
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HAWKS POINTE PLAT 6

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ROSCOE, IL 61073
WINNEBAGO COUNTY

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747 GLEASMAN ROAD
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SHEET TITLE

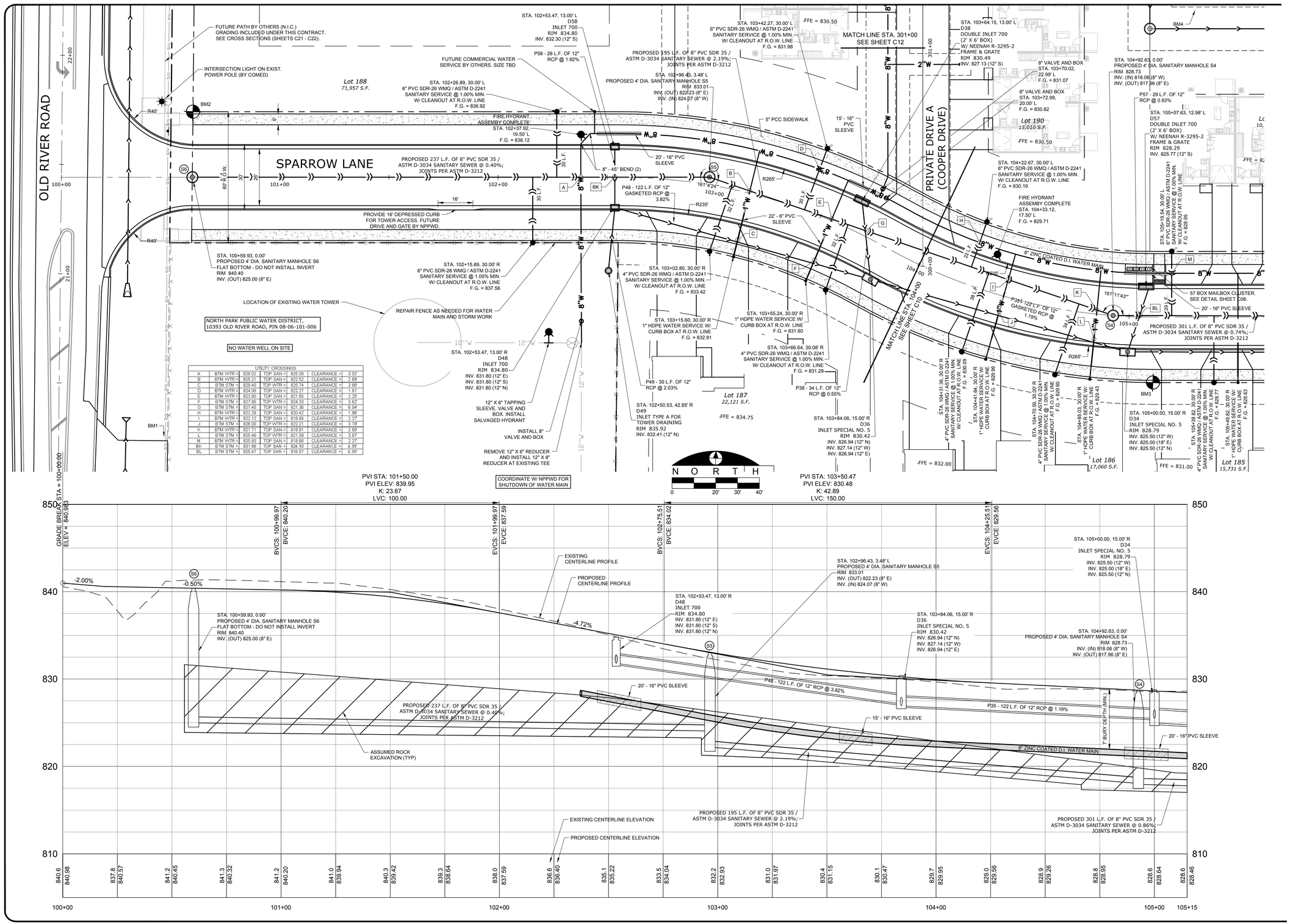
SITE SPOT ELEVATION PLAN

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C08



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WINNEBAGO COUNTY

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SHEET TITLE

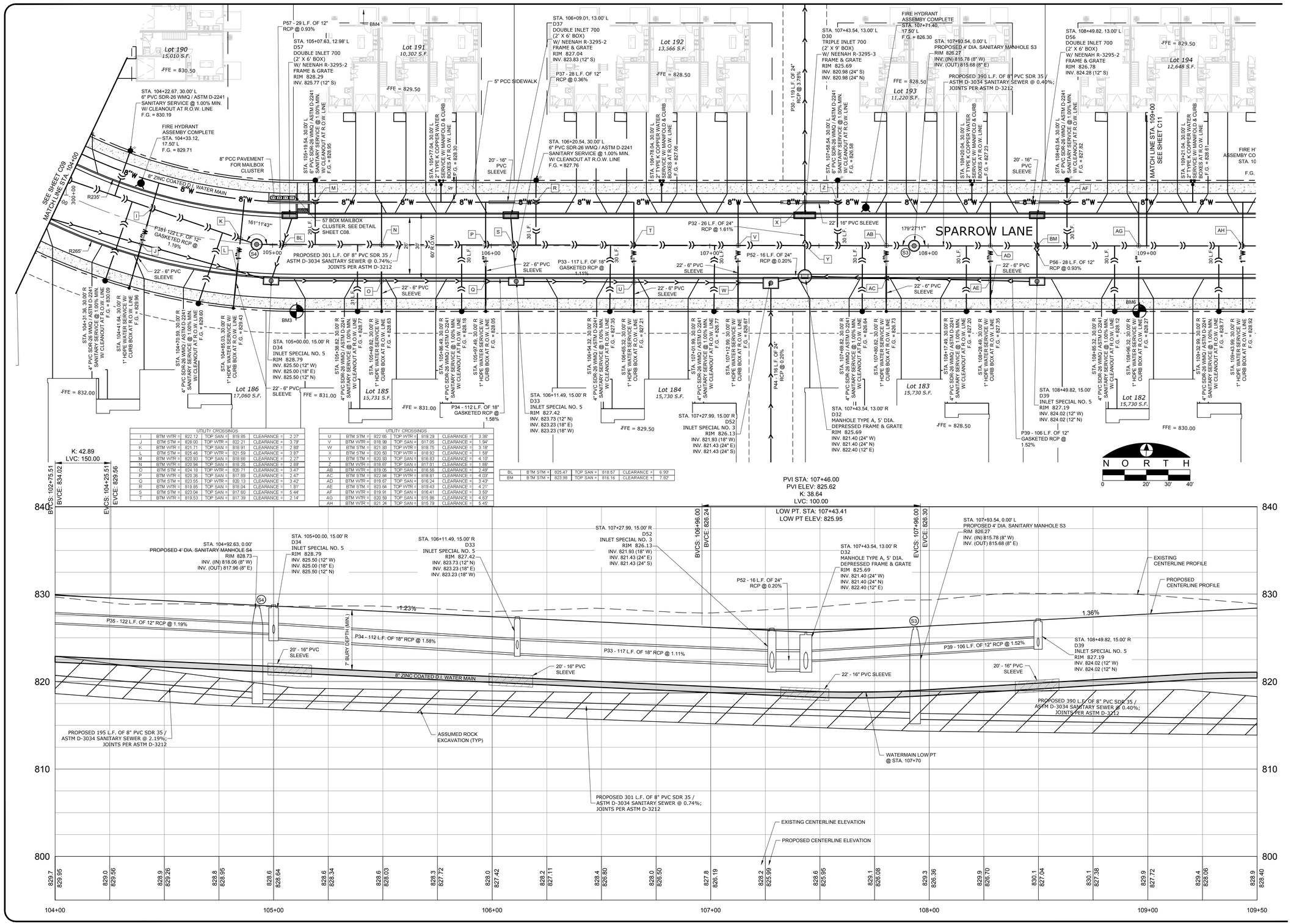
SPARROW LANE PLAN & PROFILE STA. 100+00 TO 105+00

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C09



UTILITY CROSSINGS					
I	BTM WTR =	822.12	TOP SAN =	819.85	CLEARANCE = 2.27'
J	BTM STM =	826.00	TOP WTR =	822.21	CLEARANCE = 3.79'
K	BTM WTR =	821.71	TOP SAN =	818.91	CLEARANCE = 2.80'
L	BTM STM =	825.46	TOP WTR =	821.59	CLEARANCE = 3.87'
M	BTM WTR =	820.93	TOP SAN =	818.66	CLEARANCE = 2.27'
N	BTM WTR =	820.94	TOP SAN =	818.25	CLEARANCE = 2.69'
O	BTM STM =	824.18	TOP WTR =	820.71	CLEARANCE = 3.47'
P	BTM WTR =	820.36	TOP SAN =	817.89	CLEARANCE = 2.47'
Q	BTM STM =	823.55	TOP WTR =	820.13	CLEARANCE = 3.42'
R	BTM WTR =	819.85	TOP SAN =	818.04	CLEARANCE = 1.81'
S	BTM STM =	823.04	TOP SAN =	817.60	CLEARANCE = 5.44'
T	BTM WTR =	819.53	TOP SAN =	817.39	CLEARANCE = 2.14'

UTILITY CROSSINGS					
U	BTM STM =	822.05	TOP WTR =	819.29	CLEARANCE = 3.36'
V	BTM WTR =	818.99	TOP SAN =	817.05	CLEARANCE = 1.94'
W	BTM STM =	821.93	TOP WTR =	818.75	CLEARANCE = 3.18'
X	BTM STM =	820.50	TOP WTR =	818.92	CLEARANCE = 1.58'
Y	BTM STM =	820.93	TOP SAN =	816.83	CLEARANCE = 4.10'
Z	BTM WTR =	818.67	TOP SAN =	817.01	CLEARANCE = 1.66'
AB	BTM WTR =	819.05	TOP SAN =	816.56	CLEARANCE = 2.49'
AC	BTM STM =	822.94	TOP WTR =	818.81	CLEARANCE = 4.03'
AD	BTM WTR =	819.67	TOP SAN =	816.24	CLEARANCE = 3.43'
AE	BTM STM =	823.64	TOP WTR =	819.43	CLEARANCE = 4.21'
AF	BTM WTR =	819.91	TOP SAN =	816.41	CLEARANCE = 3.50'
AG	BTM WTR =	820.59	TOP SAN =	815.96	CLEARANCE = 4.63'
AH	BTM WTR =	821.24	TOP SAN =	815.79	CLEARANCE = 5.45'

BL	BTM STM =	825.47	TOP SAN =	818.57	CLEARANCE = 6.90'
BM	BTM STM =	823.98	TOP SAN =	816.16	CLEARANCE = 7.82'

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PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

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SHEET TITLE

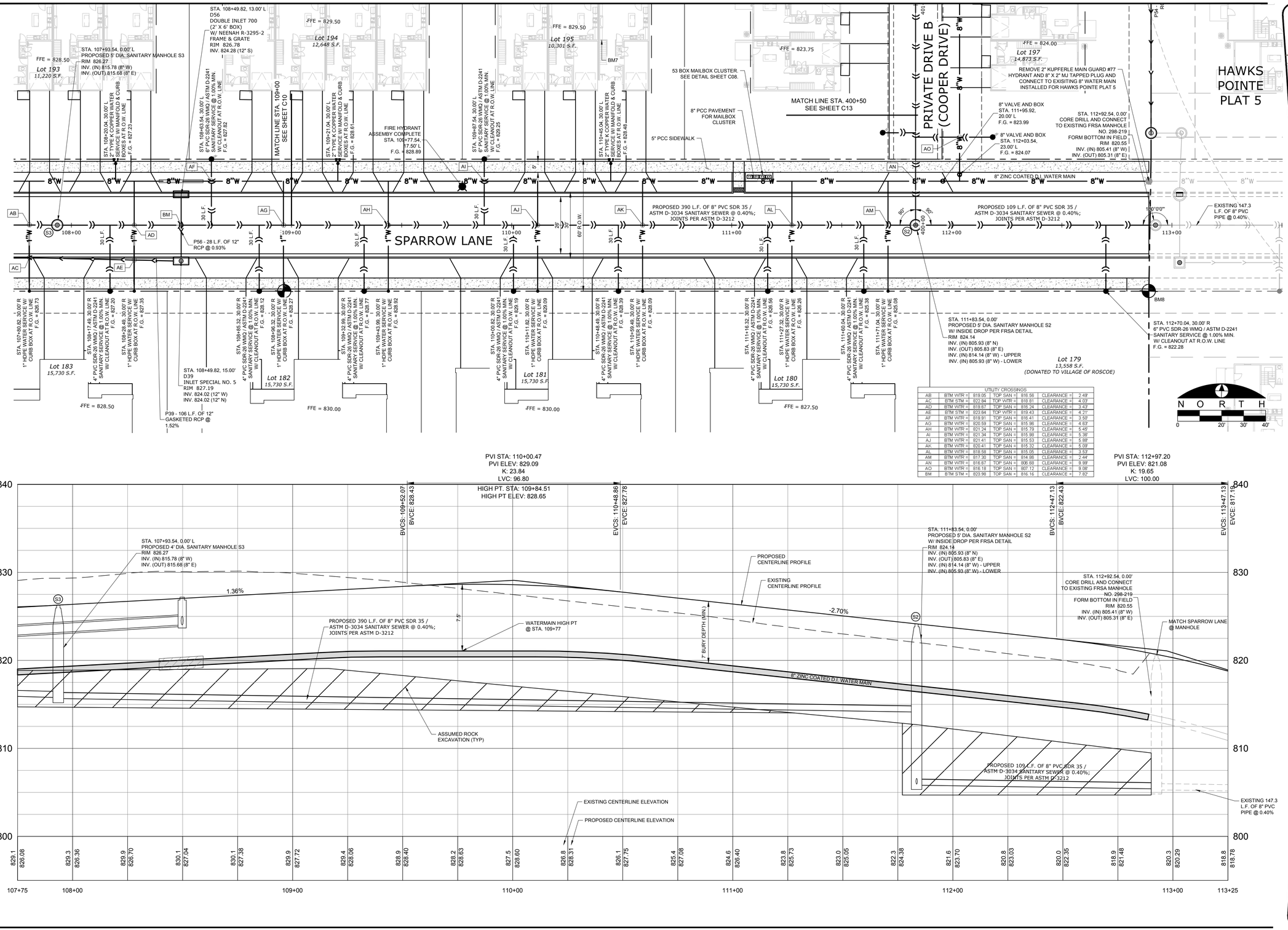
SPARROW LANE PLAN & PROFILE STA. 104+00 TO 109+50

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C10



UTILITY CROSSINGS					
AB	BTM WTR =	819.05	TOP SAN =	816.56	CLEARANCE = 2.49'
AC	BTM STM =	822.94	TOP WTR =	818.81	CLEARANCE = 4.03'
AD	BTM WTR =	819.67	TOP SAN =	816.24	CLEARANCE = 3.43'
AE	BTM STM =	823.64	TOP WTR =	819.43	CLEARANCE = 4.21'
AF	BTM WTR =	818.91	TOP SAN =	816.41	CLEARANCE = 2.50'
AG	BTM WTR =	820.59	TOP SAN =	815.96	CLEARANCE = 4.63'
AH	BTM WTR =	821.24	TOP SAN =	815.79	CLEARANCE = 5.45'
AI	BTM WTR =	821.34	TOP SAN =	815.99	CLEARANCE = 5.35'
AJ	BTM WTR =	821.41	TOP SAN =	815.53	CLEARANCE = 5.88'
AK	BTM WTR =	820.41	TOP SAN =	815.32	CLEARANCE = 5.09'
AL	BTM WTR =	818.58	TOP SAN =	815.05	CLEARANCE = 3.53'
AM	BTM WTR =	817.30	TOP SAN =	814.86	CLEARANCE = 2.44'
AN	BTM WTR =	816.67	TOP SAN =	806.68	CLEARANCE = 9.99'
AO	BTM WTR =	816.18	TOP SAN =	807.12	CLEARANCE = 9.06'
BM	BTM STM =	823.98	TOP SAN =	816.16	CLEARANCE = 7.82'

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HAWKS POINTE PLAT 6

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WINNEBAGO COUNTY

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747 GLEASMAN ROAD
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SHEET TITLE

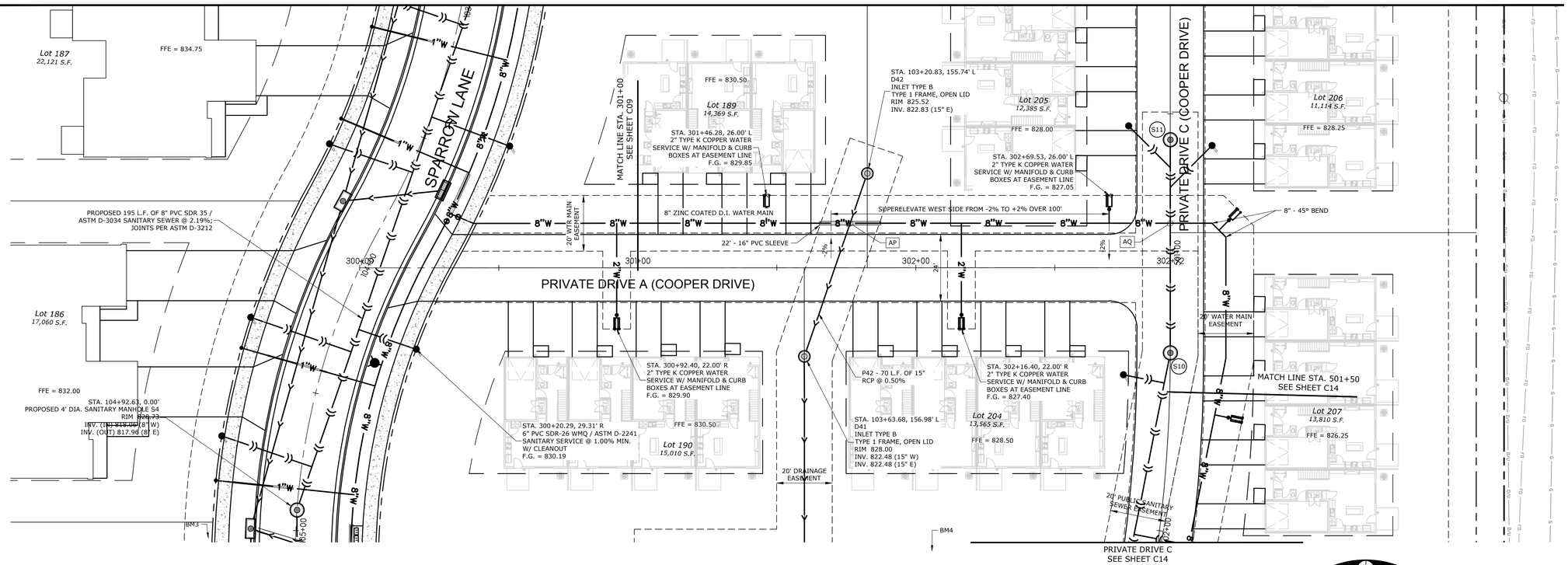
SPARROW LANE
PLAN & PROFILE
STA. 107+75 TO
113+50

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

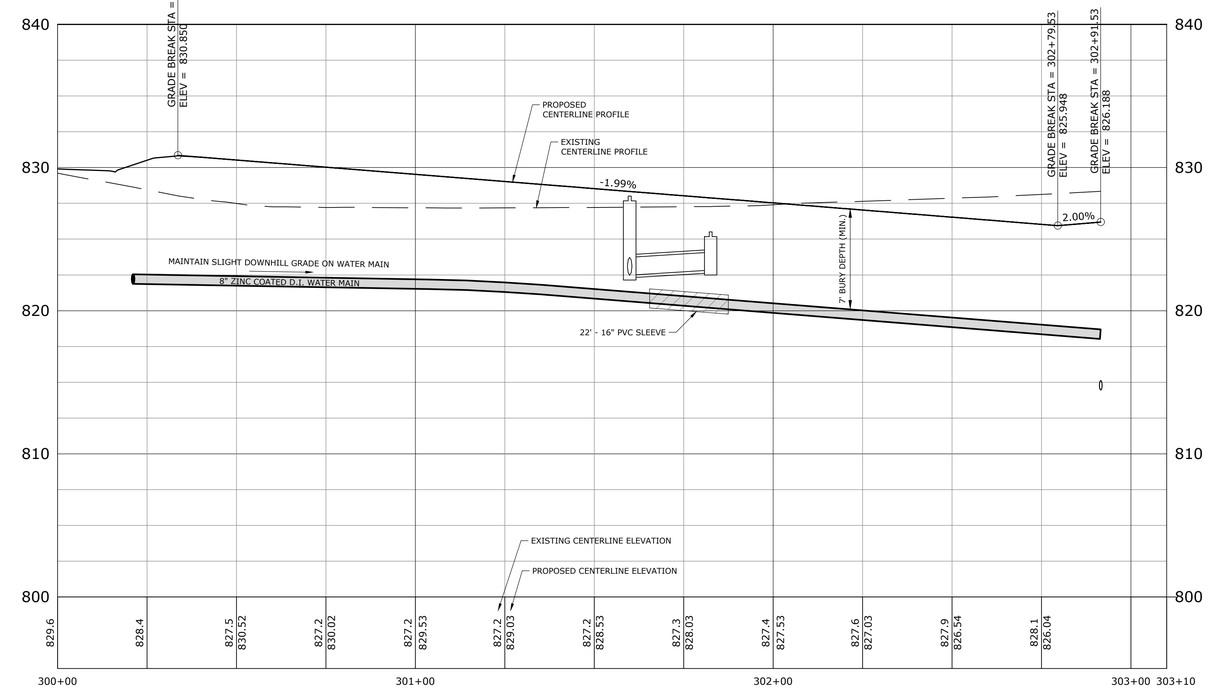
22214

C11



UTILITY CROSSINGS

AP	BTM STM =	822.41	TOP WTR =	820.90	CLEARANCE = 1.51'
AQ	BTM WTR =	818.73	TOP SAN =	815.14	CLEARANCE = 3.59'



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SHEET TITLE

PRIVATE DRIVE A PLAN & PROFILE STA. 300+00 TO 302+91

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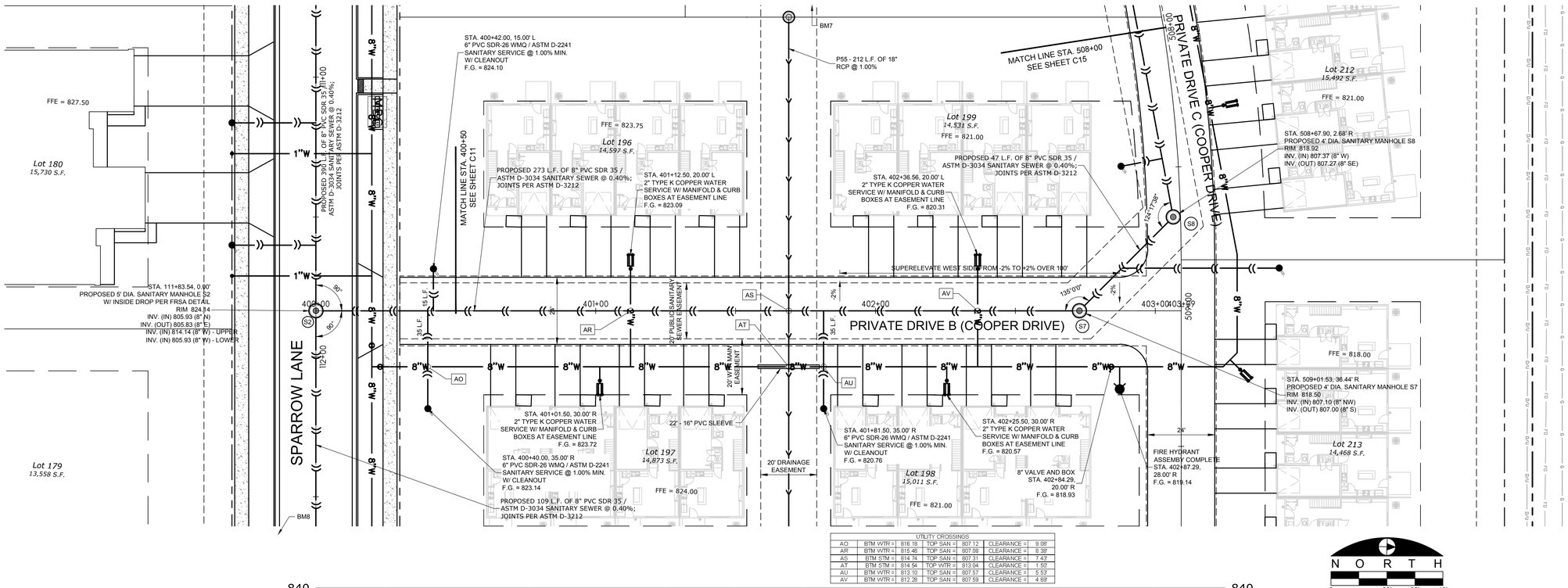
CHECKED	JSL
PM	JSL

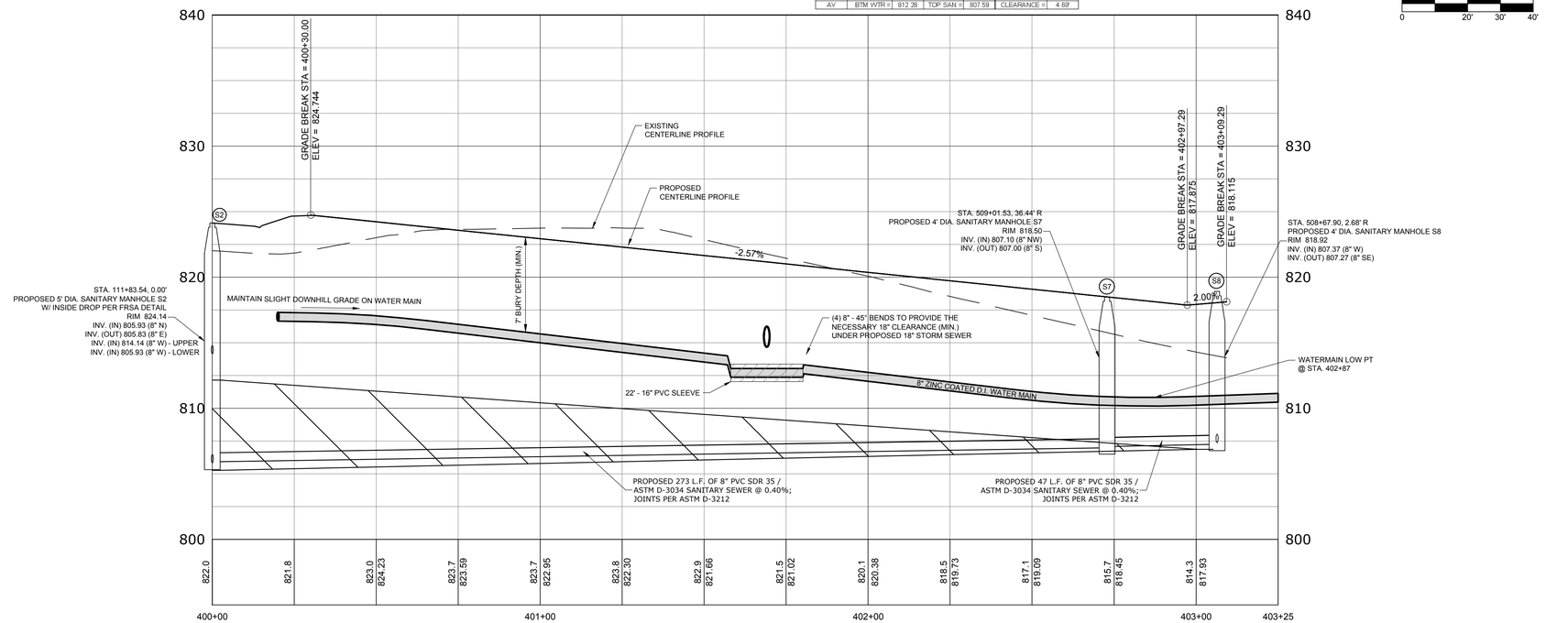
PROJECT NUMBER
SHEET NUMBER

22214

C12



UTILITY CROSSINGS						
AO	BTM WTR =	816.18	TOP SAN =	807.12	CLEARANCE =	9.06'
AR	BTM WTR =	815.46	TOP SAN =	807.08	CLEARANCE =	8.38'
AS	BTM STM =	814.74	TOP SAN =	807.31	CLEARANCE =	7.43'
AT	BTM STM =	814.54	TOP WTR =	813.04	CLEARANCE =	1.50'
AU	BTM WTR =	813.10	TOP SAN =	807.57	CLEARANCE =	5.53'
AV	BTM WTR =	812.28	TOP SAN =	807.59	CLEARANCE =	4.69'



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REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
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SHEET TITLE

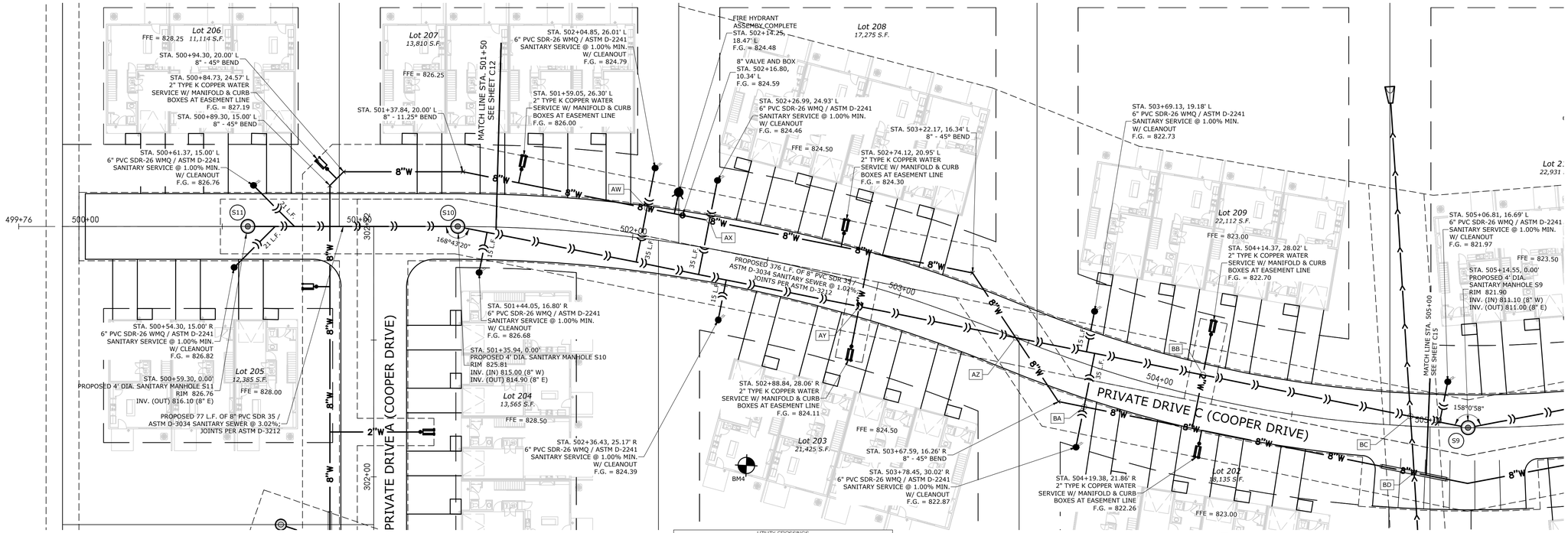
PRIVATE DRIVE B
PLAN & PROFILE
STA. 400+00 TO
403+09

DRAWN	DB
CHECKED	JSL
PM	JSL

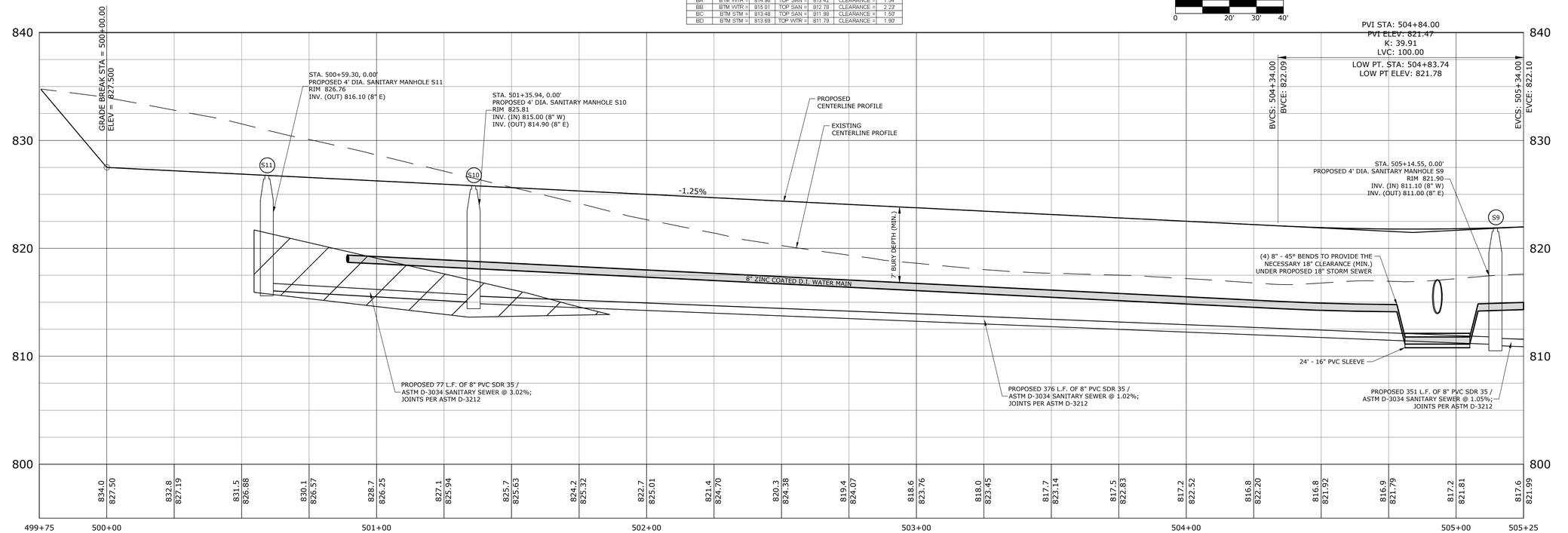
PROJECT NUMBER
SHEET NUMBER

22214

C13



UTILITY CROSSINGS						
AW	BTM WTR =	817.08	TOP SAN =	815.22	CLEARANCE =	1.86'
AX	BTM WTR =	816.82	TOP SAN =	815.01	CLEARANCE =	1.81'
AY	BTM WTR =	816.60	TOP SAN =	814.05	CLEARANCE =	2.55'
AZ	BTM WTR =	815.54	TOP SAN =	813.48	CLEARANCE =	2.06'
BA	BTM WTR =	814.96	TOP SAN =	813.42	CLEARANCE =	1.54'
BB	BTM WTR =	815.01	TOP SAN =	812.78	CLEARANCE =	2.22'
BC	BTM STM =	813.48	TOP SAN =	811.98	CLEARANCE =	1.50'
BD	BTM STM =	813.69	TOP WTR =	811.79	CLEARANCE =	1.90'



ARC DESIGN RESOURCES INC.
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LOVES PARK, IL 61111
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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
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REVISIONS

ITEM	DATE
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SHEET TITLE

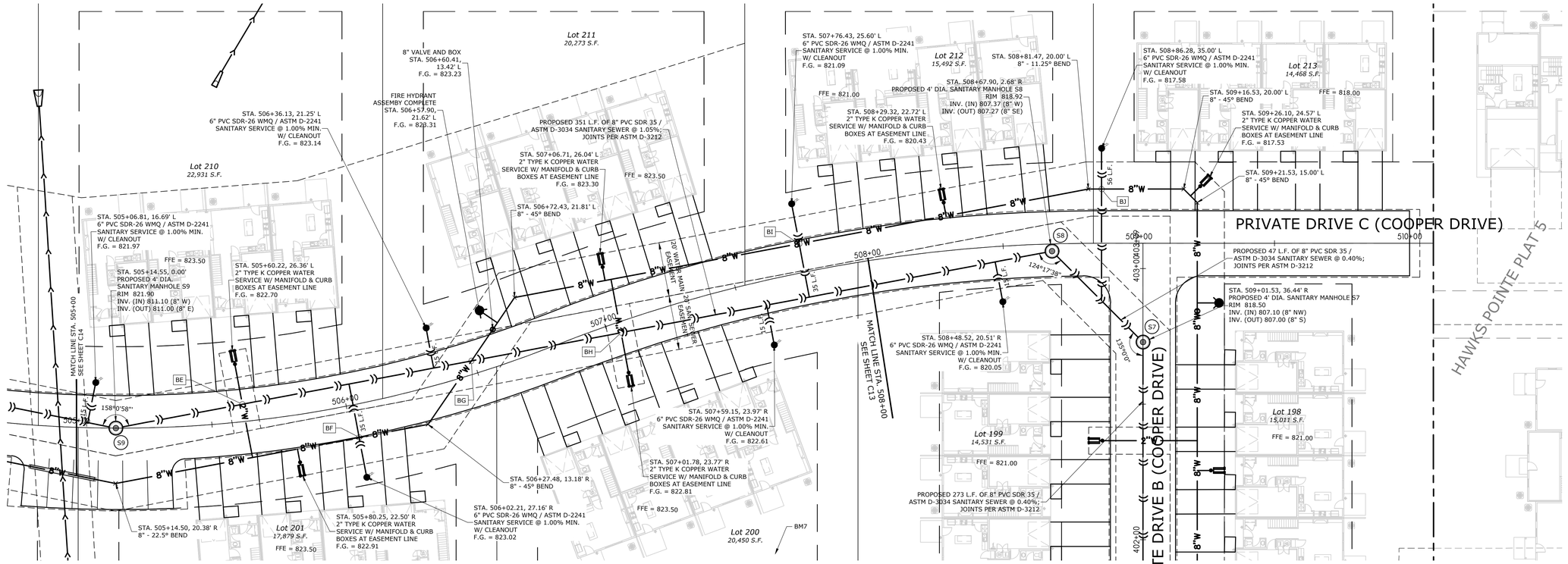
PRIVATE DRIVE C PLAN & PROFILE STA. 500+00 TO 505+25

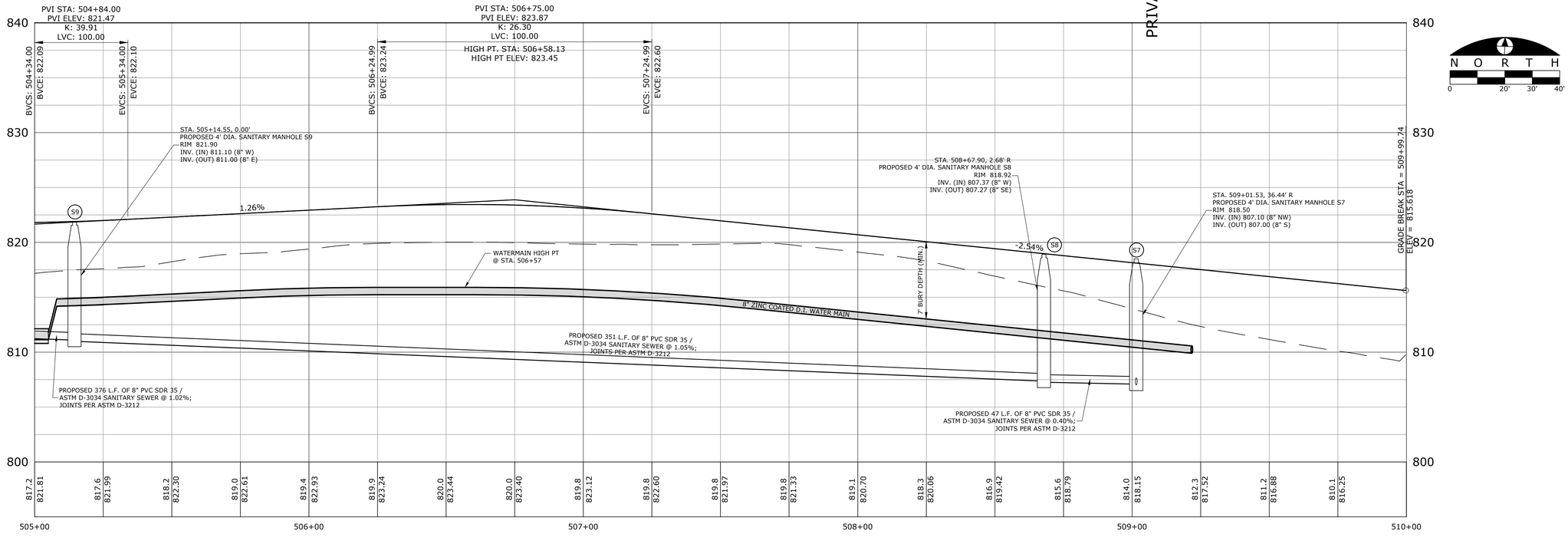
DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C14





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OWNER'S NAME

HAWKS POINTE PLAT 6

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WINNEBAGO COUNTY

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747 GLEASMAN ROAD
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REVISIONS

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SHEET TITLE

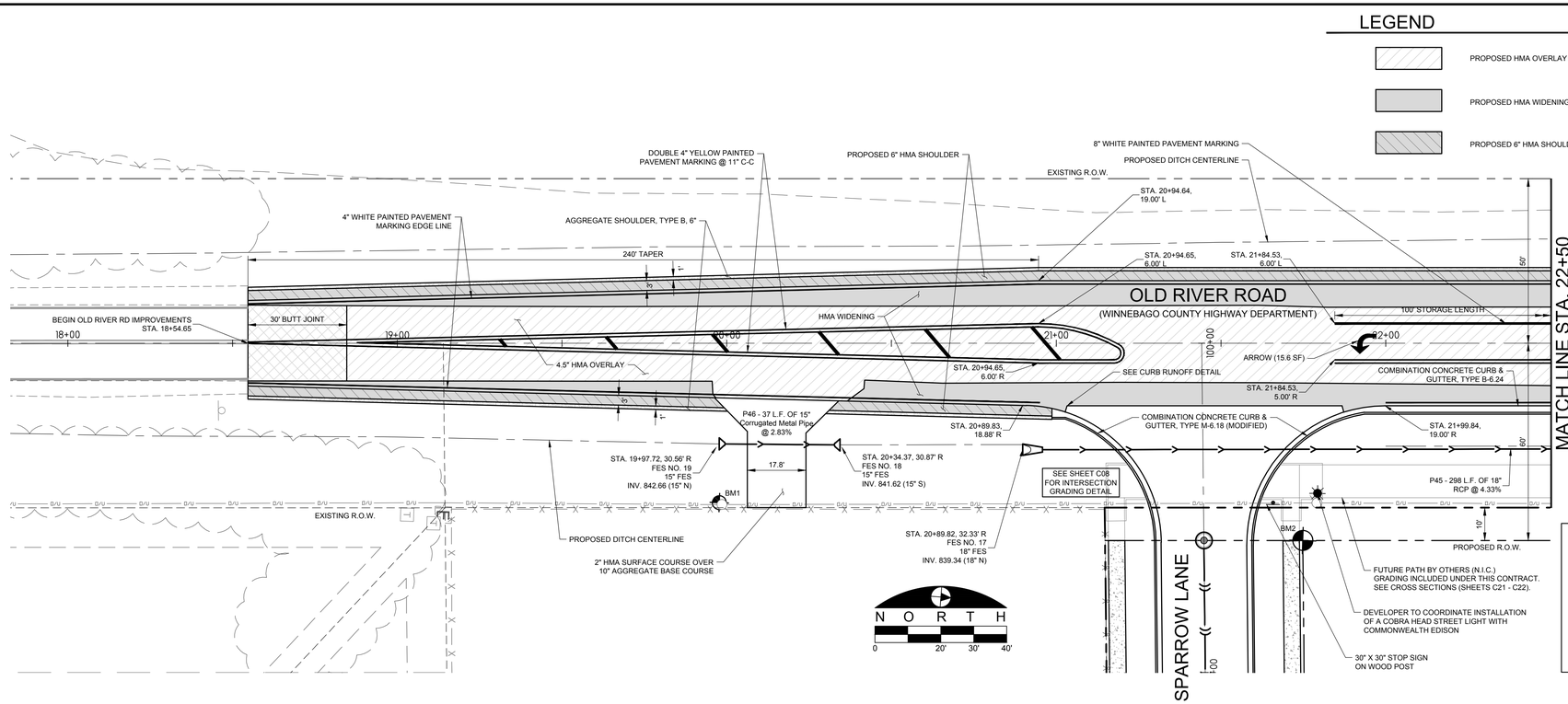
PRIVATE DRIVE C
PLAN & PROFILE
STA. 505+00 TO
510+00

DRAWN	DB
CHECKED	JSL
PM	JSL

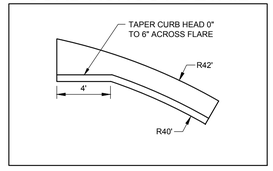
PROJECT NUMBER
SHEET NUMBER

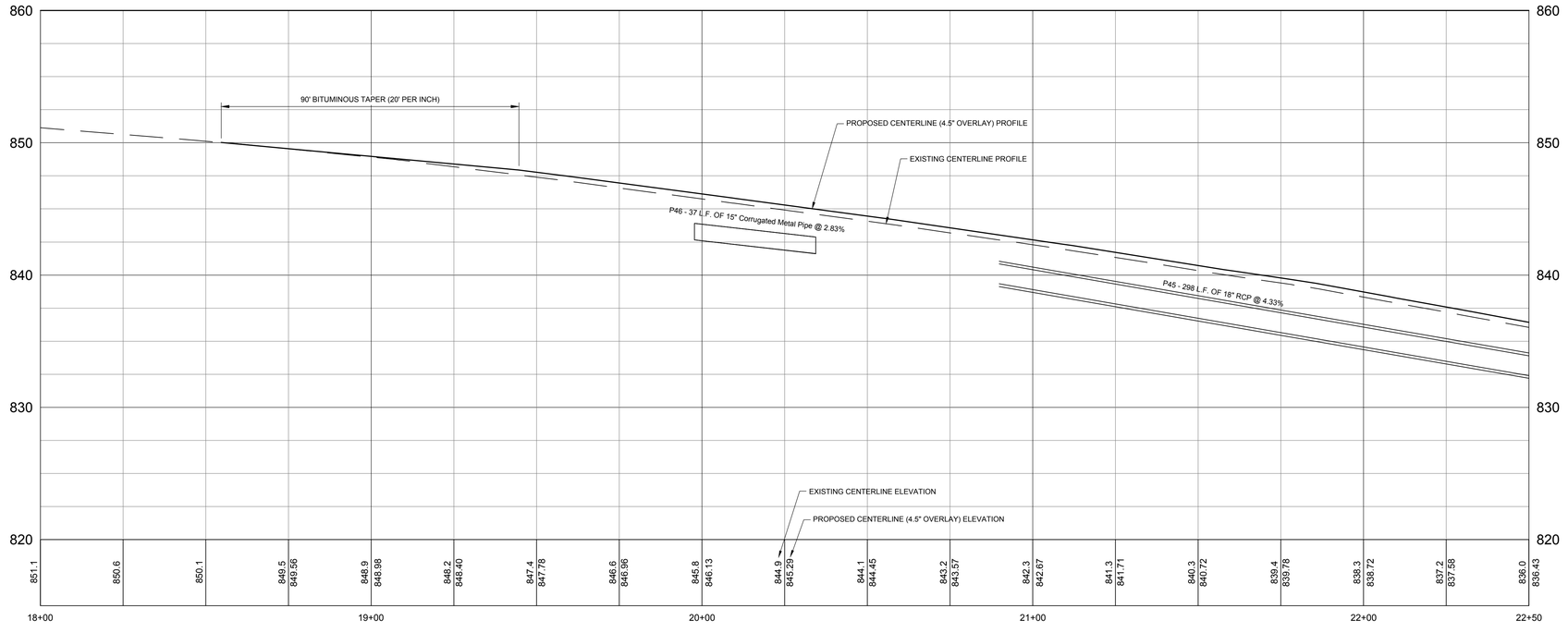
22214

C15



CURB RUNOUT DETAIL





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REVISIONS

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SHEET TITLE

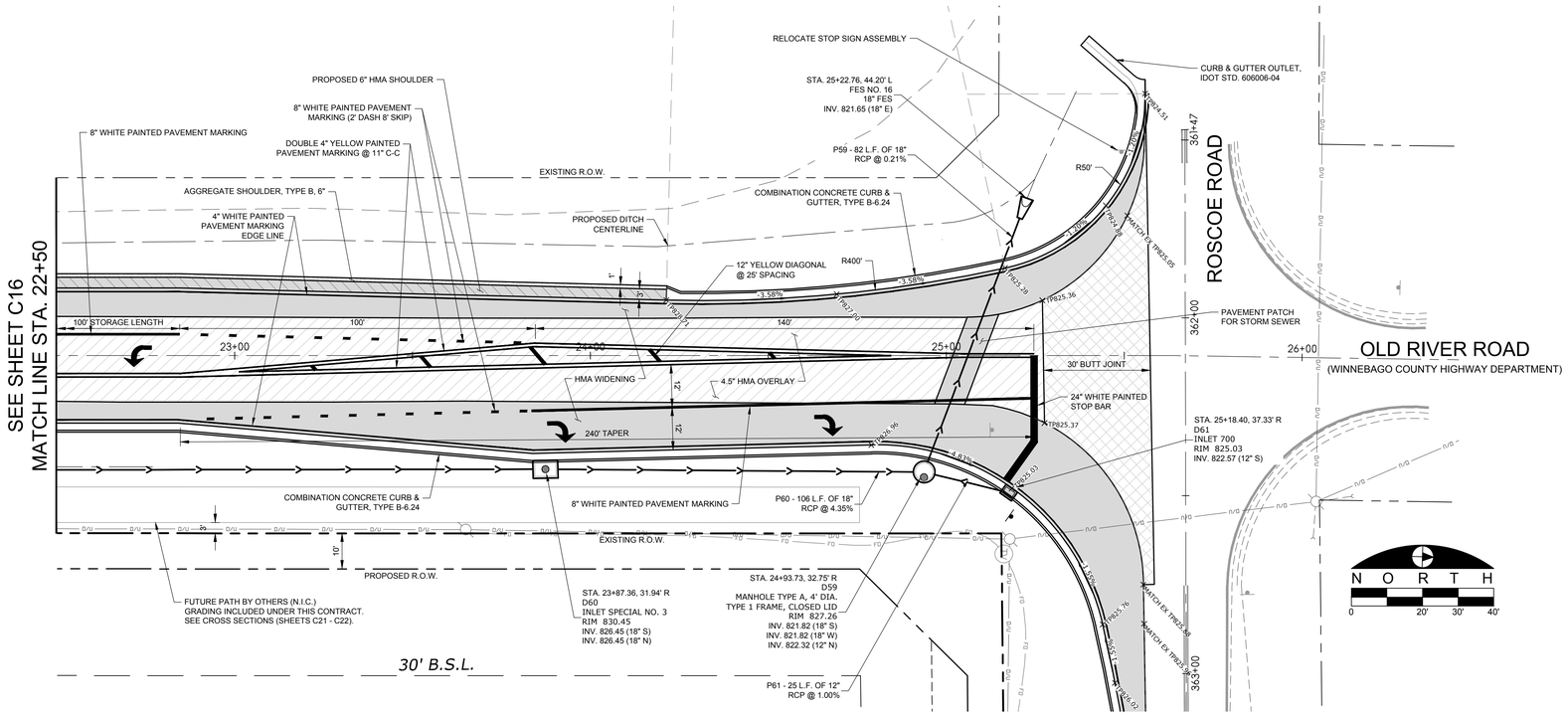
OLD RIVER ROAD
PLAN & PROFILE
STA. 18+54.65 TO 22+50

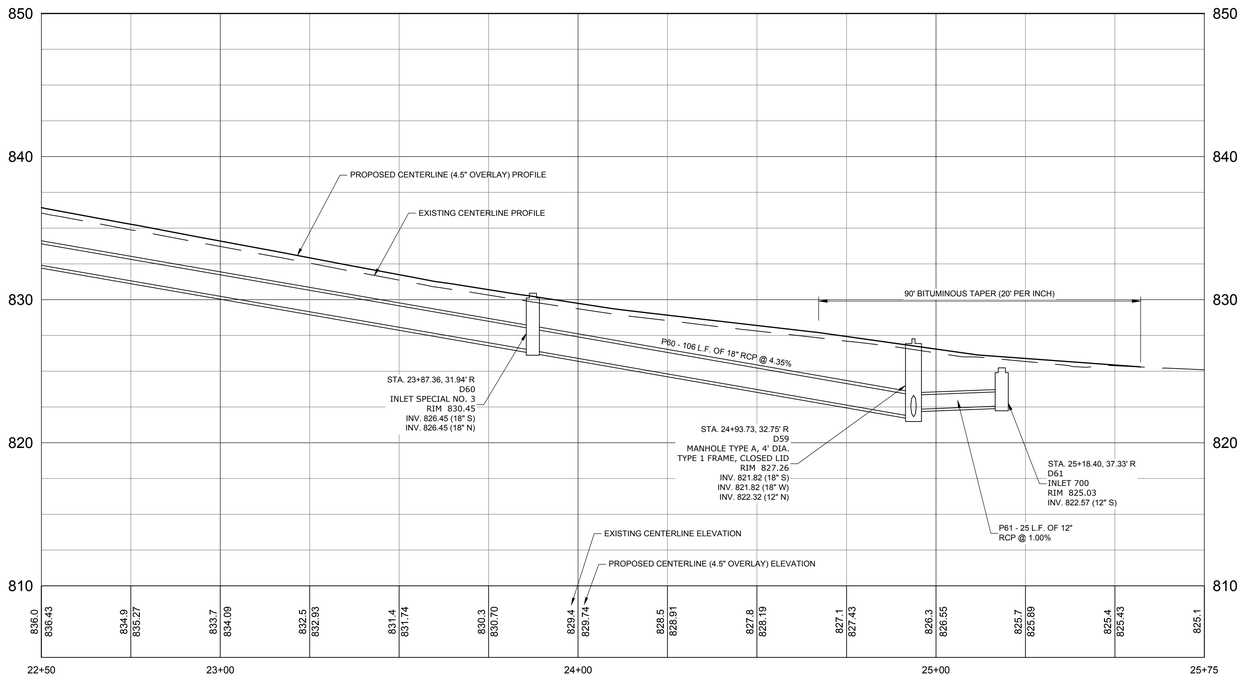
DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

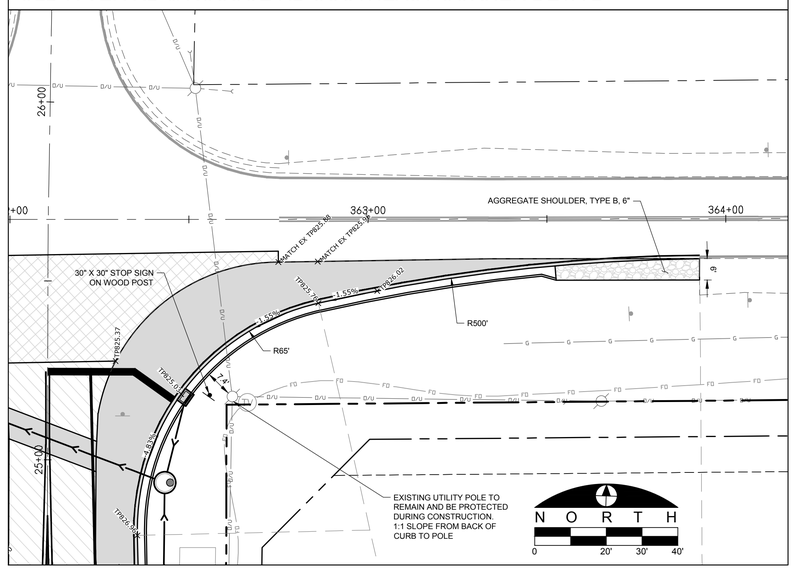
22214

C16





OLD RIVER RD & ROSCOE RD SOUTHEAST CORNER DETAIL



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REVISIONS

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SHEET TITLE

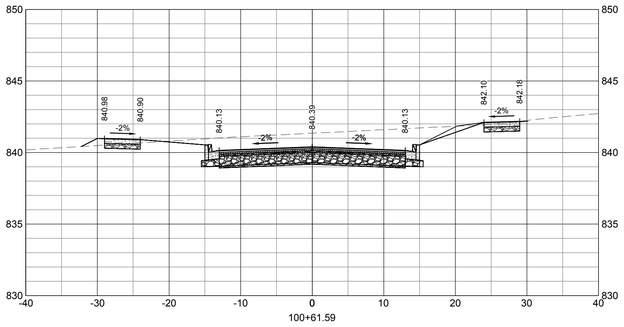
OLD RIVER ROAD
PLAN & PROFILE
STA. 22+50 TO
25+24.68

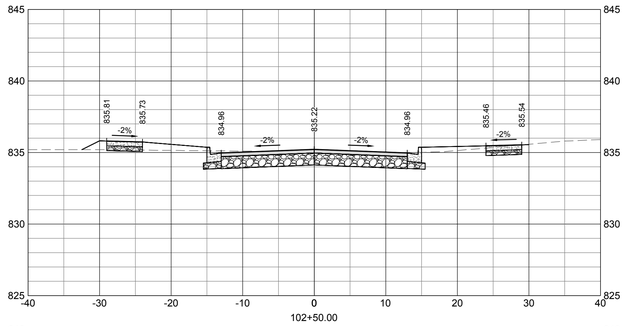
DRAWN	DB
CHECKED	JSL
PM	JSL

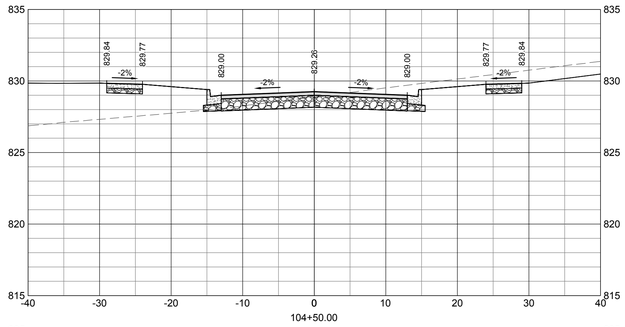
PROJECT NUMBER
SHEET NUMBER

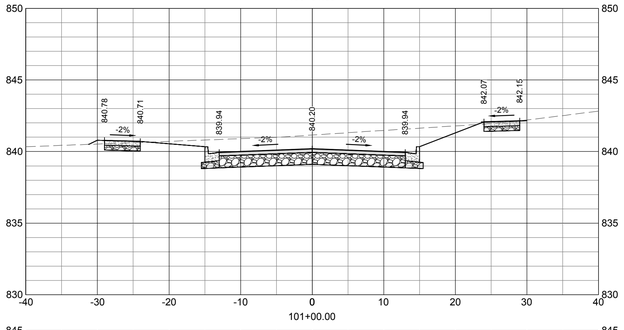
22214

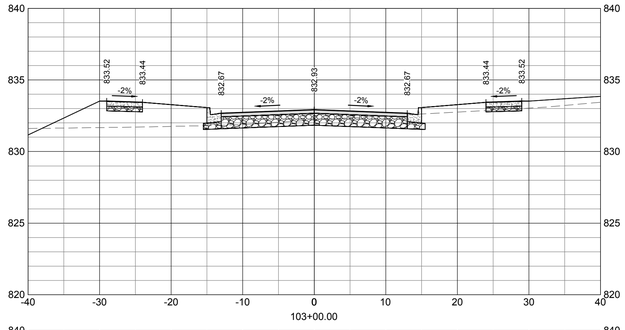
C17

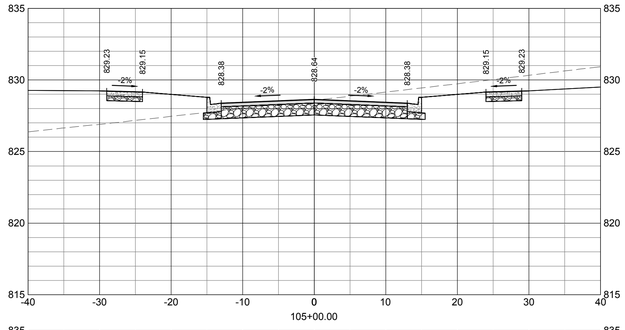


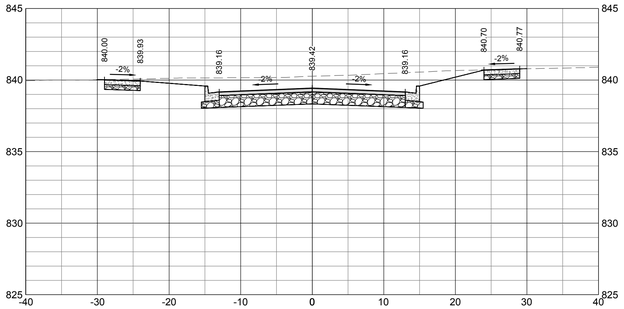


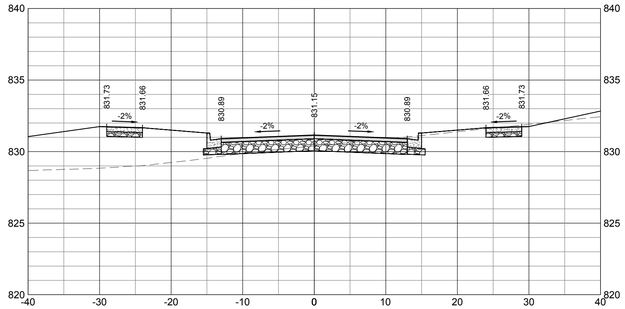


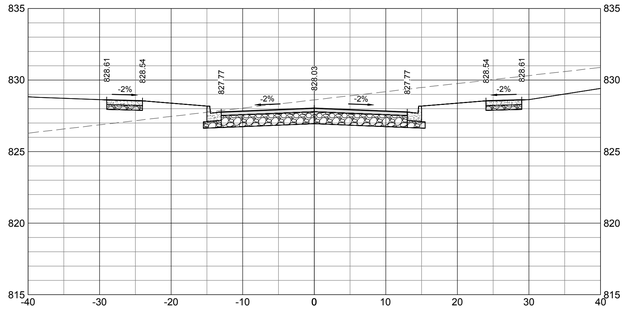


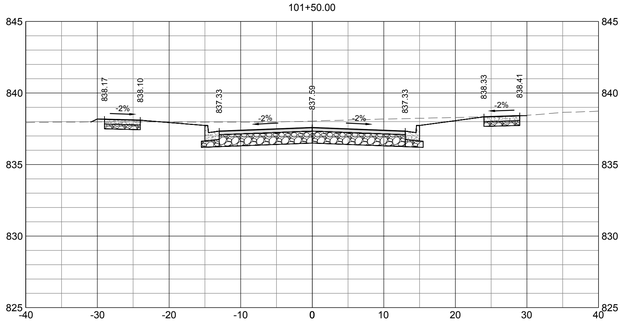


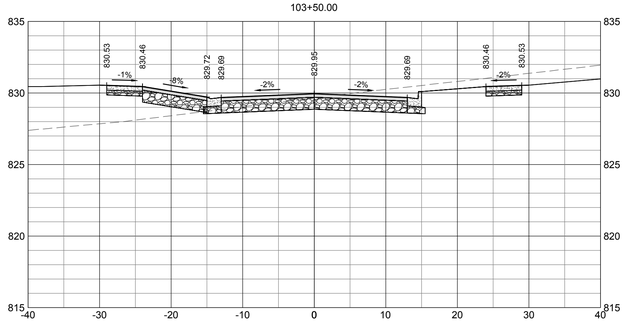


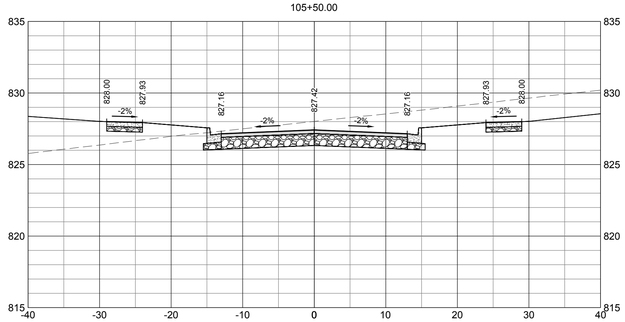












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PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
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SHEET TITLE

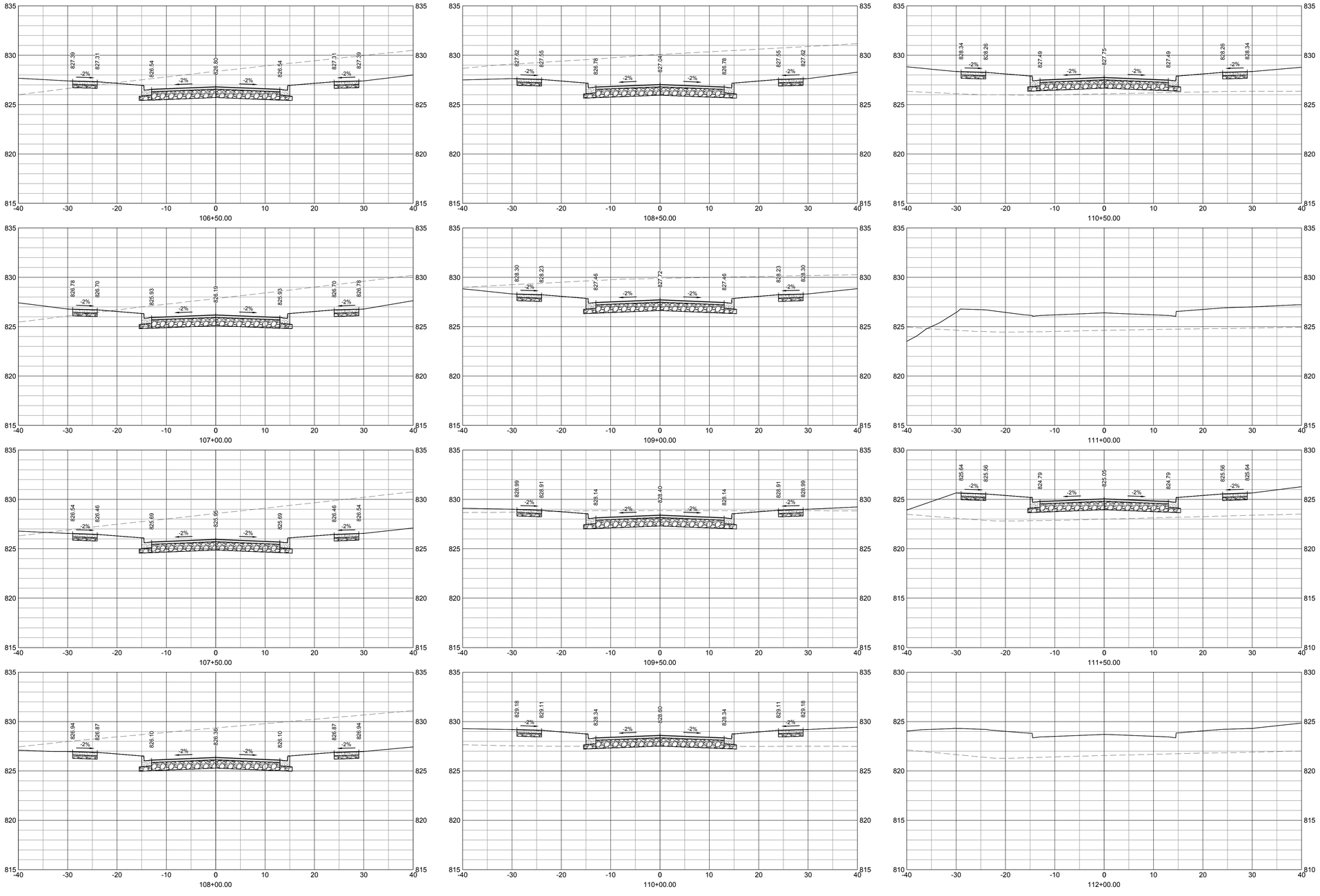
SPARROW LANE
CROSS SECTIONS
STA. 100+61.59 TO
106+00

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C18



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REVISIONS

ITEM	DATE
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2. ---	---
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SHEET TITLE

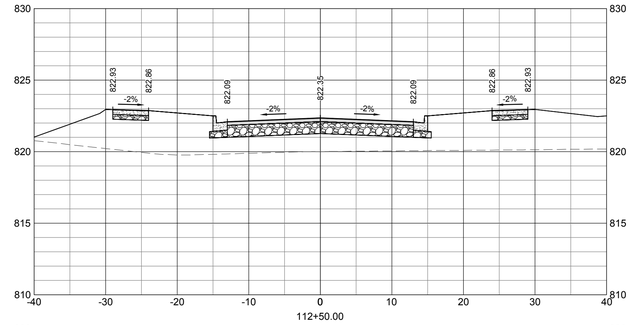
SPARROW LANE
CROSS SECTIONS
STA. 106+50 TO
112+00

DRAWN	DB
CHECKED	JSL
PM	JSL

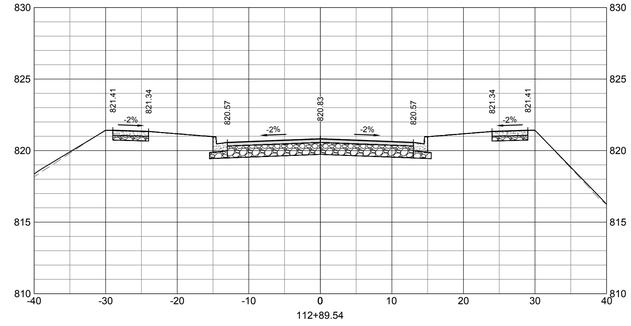
PROJECT NUMBER
SHEET NUMBER

22214

C19



112+50.00



112+89.54

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REVISIONS

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SHEET TITLE

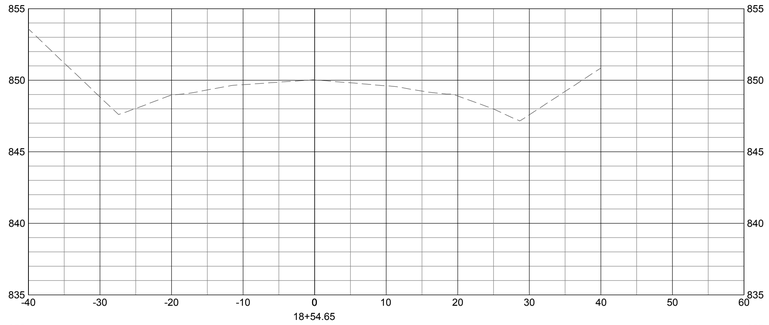
SPARROW LANE
CROSS SECTIONS
STA. 112+50 TO
112+89.54

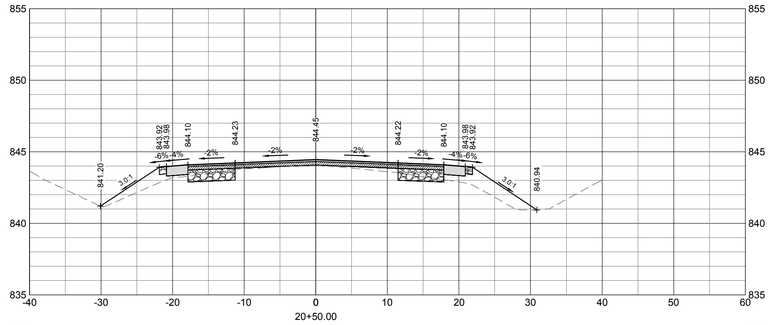
DRAWN	DB
CHECKED	JSL
PM	JSL

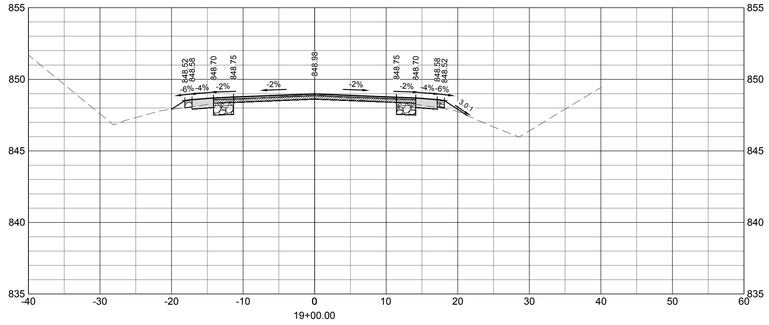
PROJECT NUMBER
SHEET NUMBER

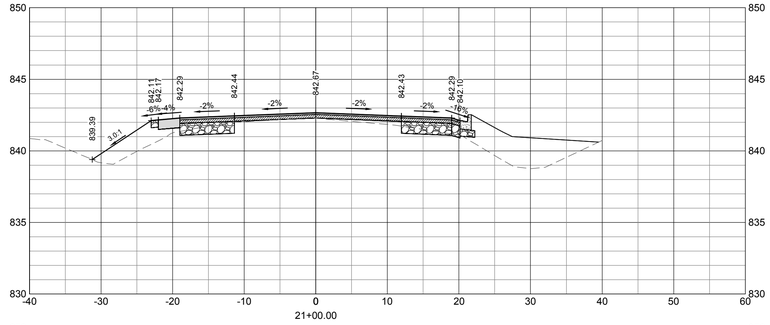
22214

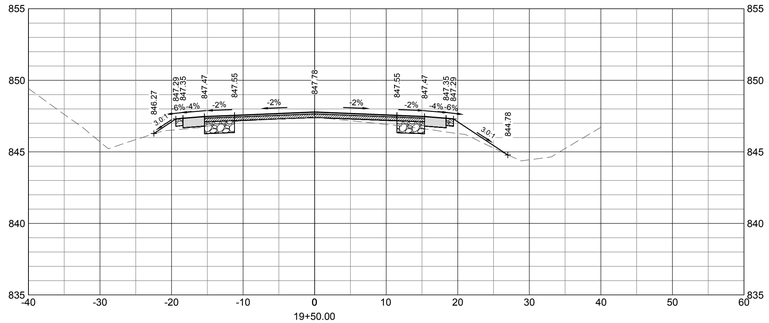
C20

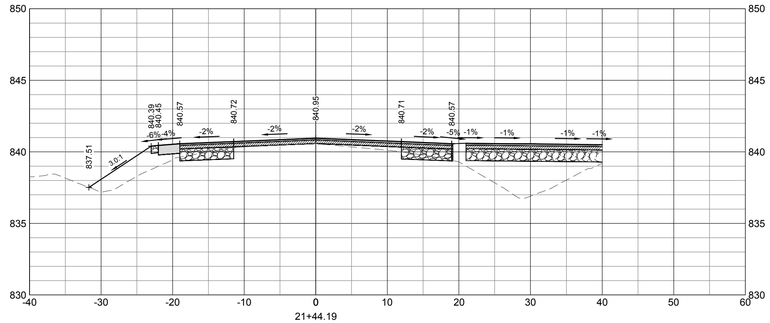


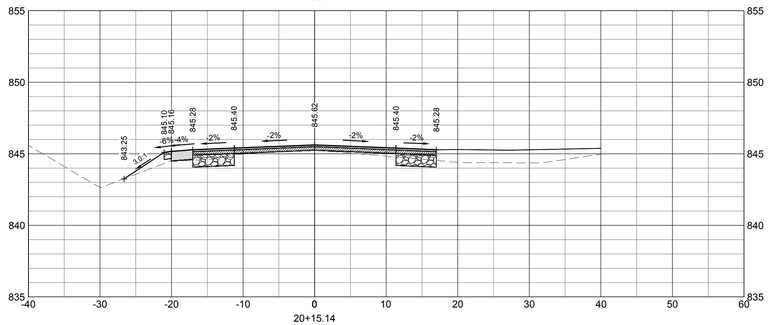


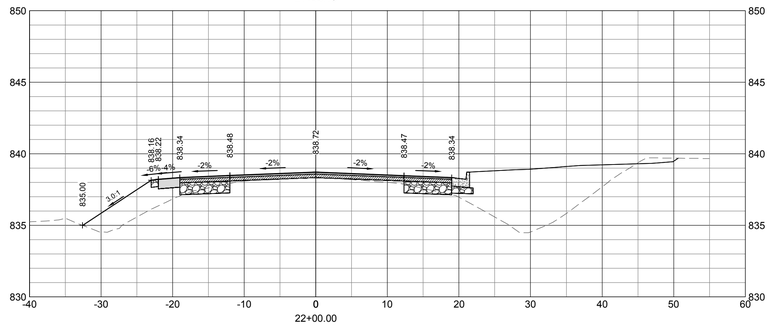












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PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
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REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
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5. ---	---
6. ---	---

SHEET TITLE

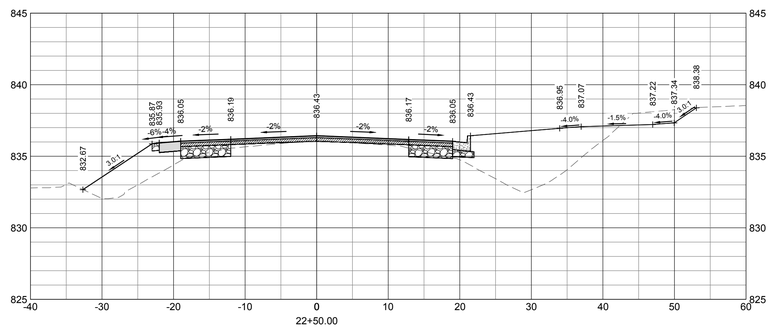
OLD RIVER ROAD
CROSS SECTIONS
STA. 18+54.65 TO
22+00

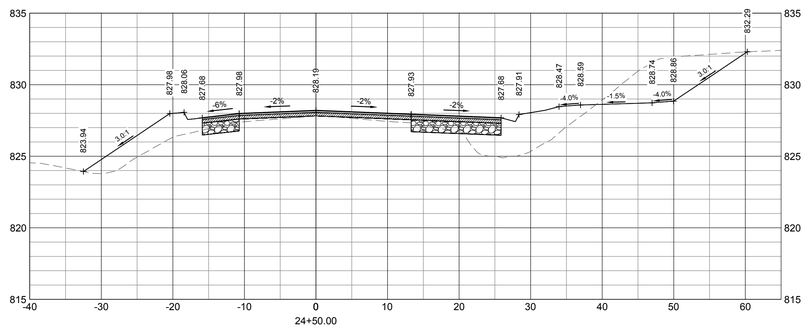
DRAWN	DB
CHECKED	JSL
PM	JSL

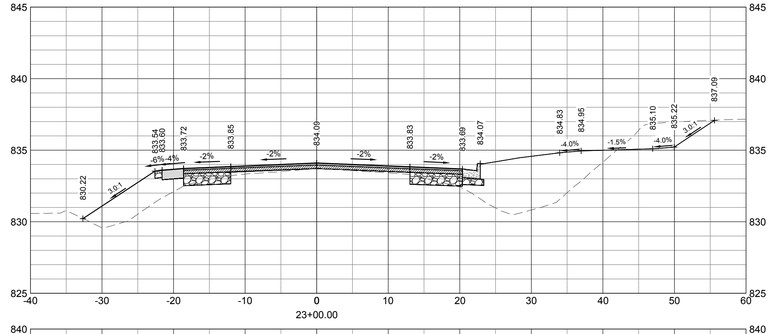
PROJECT NUMBER
SHEET NUMBER

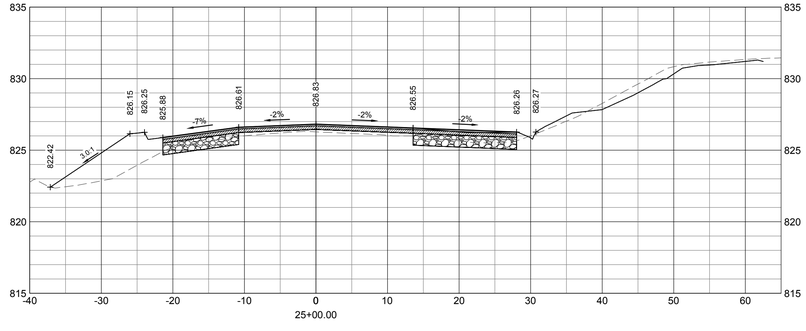
22214

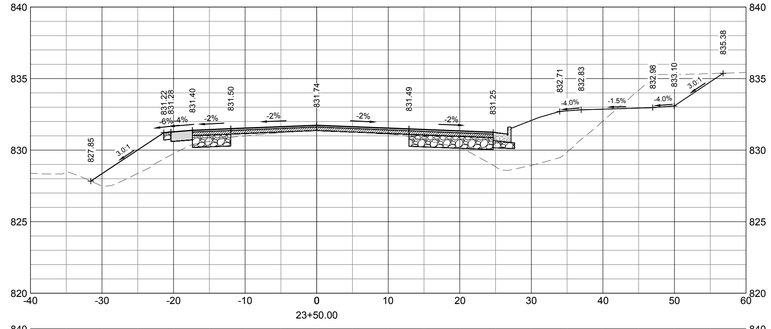
C21

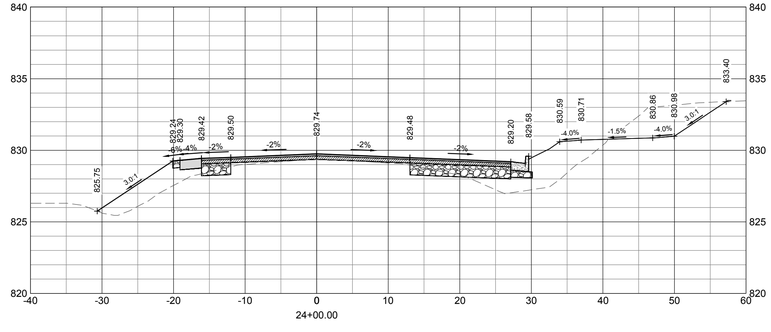












ARC DESIGN RESOURCES INC.
5291 ZENITH PARKWAY
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SHEET TITLE

OLD RIVER ROAD
CROSS SECTIONS
STA. 22+50 TO 25+00

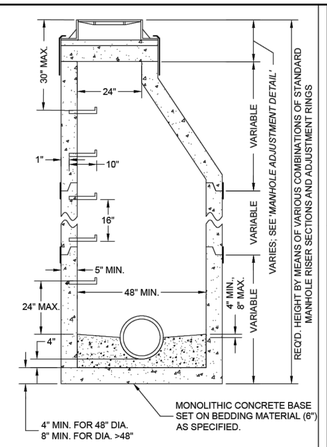
DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C22

NOTES:
1. THE MAX. DROP FROM THE INVERT OF ANY PIPE TO THE CONCRETE CHANNEL UNDER THAT PIPE SHALL BE 8".
2. MANHOLES LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY SHALL BE MARKED WITH A STEEL FENCE POST AS DIRECTED.
3. ALL NEW MANHOLES SHALL BE VACUUM TESTED PER A.S.T.M. C-1244 PRIOR TO ACCEPTANCE.
4. ALL BARREL JOINTS SHALL BE SEALED WITH 3 ½" x ¾" PRE-FORMED RUBBER BUTYL JOINT SEALANT ON THE LOWER SHIPLAP.
5. ALL BARREL JOINTS SHALL BE SEALED WITH AN EXTERNAL BARREL SEAL CENTERED ON THE JOINT (MAR MAC MACWRAP, OR APPROVED EQUAL)
6. MANHOLE STRUCTURE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE MANHOLE RISER SECTIONS IN ACCORDANCE WITH A.S.T.M. C478-90 OR THE LATEST DESIGNATION.
7. PRECAST FLAT TOPS ARE NOT APPROVED FOR USE.
8. SEE *'MANHOLE ADJUSTMENT DETAIL'* FOR ADJUSTMENT REQUIREMENTS.
9. PIPE CONNECTIONS TO NEW MANHOLES SHALL BE MADE BY MEANS OF EITHER RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL, OR RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923. FOR PIPE CONNECTIONS WITH A DEPTH OF >20 FT., A RUBBER GASKET SEAL (A-LOK OR APPROVED EQUAL) CONFORMING TO ASTM C-923 CAST INTEGRALLY IN MANHOLE WALL SHALL BE USED.
10. PIPE CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY MEANS OF CORE DRILLING MANHOLE WALL AND INSTALLING RUBBER GASKET SEAL AND STAINLESS STEEL CLAMP (PSX SERIES SIX OR APPROVED EQUAL) CONFORMING TO ASTM C-923.
11. THE MAXIMUM DISTANCE FROM ANY INLET PIPE INVERT TO THE OUTLET PIPE INVERT SHALL BE 2'. DISTANCES GREATER THAN 2' WILL REQUIRE AN INSIDE DROP CONNECTION PER *'INSIDE DROP CONNECTION DETAIL'*.
12. MANHOLE STEPS SHALL BE NEENAH R-1982-F OR M.A. IND. PS-1 OR APPROVED EQUAL INSTALLED AT 16" CENTERS, ORIENTED ABOVE THE OUTLET PIPE UNLESS OTHERWISE SPECIFIED. FOR MANHOLES WITH INSIDE DROP ASSEMBLIES, STEPS IN THE MANHOLE BASE SECTION SHALL BE INSTALLED IN THE FIELD AND NOT CAST IN PLACE. IN THIS CASE, THE ORIENTATION OF THE CONE SHALL BE AS DIRECTED BY FRSA.
13. THE TOP HALF OF INLET & OUTLET PIPES SHALL BE CUT FLUSH WITH THE MANHOLE WALL. HYDRAULIC CEMENT (XYPEX PATCH N PLUG OR APPROVED EQUAL) SHALL BE PLACED IN THE ENTIRE VOID BETWEEN PIPES AND MANHOLE OPENINGS.

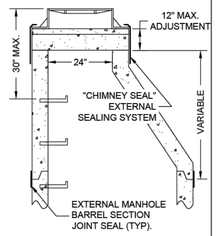


STANDARD MANHOLE DETAIL
(*'MANHOLE ADJUSTMENT DETAIL'* SHALL APPLY)

rev. 5/1/23

NOTES:
1. MANHOLE FRAMES & LIDS SHALL BE PER THE TABLE BELOW.
2. FOR MANHOLES CONNECTED TO MAINS 18" DIAMETER OR LARGER, OR FOR MANHOLES LOCATED IN FLOOD PRONE AREAS, FRAMES & LIDS SHALL BE THE BOLT DOWN TYPE.
3. ALLOWABLE TYPES OF ADJUSTING RINGS INCLUDE PRECAST CONCRETE (4" HEIGHT MIN.), & EXPANDED POLYPROPYLENE (EPP). THESE CAN BE USED IN CONJUNCTION WITH EACH OTHER, EXCEPT THAT A PRECAST RING SHALL NOT BE PLACED OVER AN EPP RING.
4. FOR PRECAST ADJUSTING RINGS, ALL ADJUSTING RING JOINTS AS WELL AS THE FRAME TO ADJUSTING RING JOINT SHALL BE SEALED WITH TWO 1" BEADS OF PRE-FORMED RUBBER BUTYL JOINT SEALANT. WHEN A FRAME REQUIRES PITCHING, EPP TAPER RINGS SHALL BE USED PER NOTE 5.
5. FOR EPP ADJUSTING RINGS, RINGS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. WHEN A FRAME REQUIRES PITCHING, THE TOP RING SHALL BE A TAPERED ADJUSTMENT RING PER MANUFACTURER'S INSTRUCTIONS.
6. NO TARRING OR GROUTING IS ALLOWED ON THE INSIDE OF MANHOLE OR ADJUSTMENT JOINTS.
7. MAXIMUM MANHOLE ADJUSTMENT IS 12". MINIMUM ADJUSTMENT IS 4" UNLESS OFF-ROAD OR IN CURB & GUTTER ROADWAY.
8. MANHOLE FRAMES SHALL BE SET ¼" MIN. TO ⅜" MAX. BELOW PAVED SURFACES, AND AT FINAL GRADE IN TURF AREAS.
9. WHEN ADJUSTING EXISTING MANHOLES, THE ENTIRE EXISTING ADJUSTMENT SHALL BE REMOVED AND REPLACED.
10. THE COMBINATION OF NEW ADJUSTING RINGS SHALL BE SUCH THAT THE MINIMUM NUMBER OF RINGS POSSIBLE ARE USED.
11. FLAT-TOPS ARE NOT PERMITTED ON 4' OR 5' DIA. MANHOLES.
12. REPLACEMENT OF EXISTING BARREL SECTIONS MAY BE REQUIRED TO MEET THE ABOVE REQUIREMENTS.
13. MANHOLE ADJUSTMENT INSERT RISER RINGS ARE NOT APPROVED FOR USE.

APPROVED FRAME & LID TABLE				
TYPE	NEENAH FRAME	NEENAH LID	EAST JORDAN FRAME	EAST JORDAN LID
REGULAR	1670-2004	R-1670-0358	00111711	00111732
LOW PROFILE	1670-2008	R-1670-0358	---	---
BOLT DOWN	1915JT08		---	---



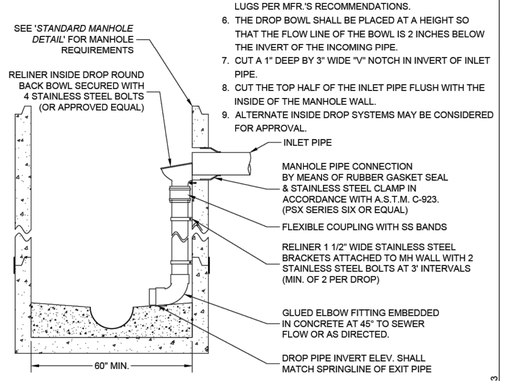
MANHOLE ADJUSTMENT DETAIL
(FOR ADJUSTMENT OF BOTH NEW & EXISTING MANHOLES)

rev. 5/1/23

DROP BOWL & DROP PIPE SIZING TABLE

INLET PIPE DIA.	DROP PIPE DIA. (MIN.)
4-6 INCH	4 INCH
8 INCH	6 INCH
10 INCH	8 INCH
>10 INCH	*

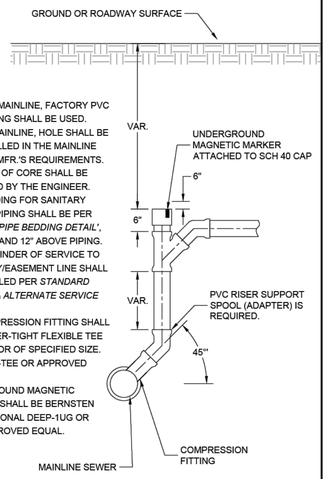
* PER MFG. OR AS DIRECTED BY FRSA



NOTES:
1. INSIDE DROP TYPE MANHOLES SHALL BE 5' MIN. INSIDE DIA.
2. ALL INSIDE DROP CONNECTIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE THE DROP AS MFG. BY RELINER-DURAN INC., OR EQUAL.
3. SEE TABLE FOR DROP BOWL AND DROP PIPE SIZES.
4. ALL INSIDE DROP PIPING SHALL BE PVC SDR35 ASTM-D3034.
5. ATTACH THE ROUND BACK DROP BOWL AND EACH CLAMPING BRACKET TO THE MANHOLE WALL WITH ⅜" x 1" MIN. STAINLESS STEEL BOLTS AND EPOXY IMPREGNATED LUGS PER MFR.'S RECOMMENDATIONS.
6. THE DROP BOWL SHALL BE PLACED AT A HEIGHT SO THAT THE FLOW LINE OF THE BOWL IS 2 INCHES BELOW THE INVERT OF THE INCOMING PIPE.
7. CUT A 1" DEEP BY 3" WIDE "V" NOTCH IN INVERT OF INLET PIPE.
8. CUT THE TOP HALF OF THE INLET PIPE FLUSH WITH THE INSIDE OF THE MANHOLE WALL.
9. ALTERNATE INSIDE DROP SYSTEMS MAY BE CONSIDERED FOR APPROVAL.

INSIDE DROP CONNECTION DETAIL
(*'STANDARD MANHOLE DETAIL'* SHALL APPLY)

rev. 5/1/23

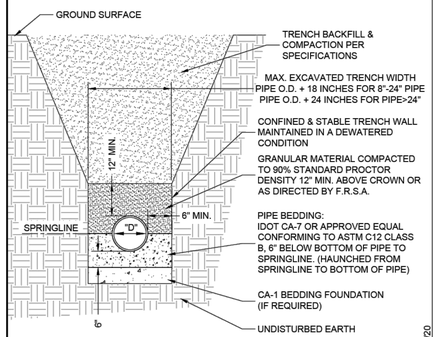


NOTES:
1. FOR NEW MAINLINE, FACTORY PVC WYE FITTING SHALL BE USED.
2. FOR EX. MAINLINE, HOLE SHALL BE CORE DRILLED IN THE MAINLINE PIPE PER MFR.'S REQUIREMENTS. LOCATION OF CORE SHALL BE APPROVED BY THE ENGINEER.
3. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
4. THE REMAINDER OF SERVICE TO PROPERTY/EASEMENT LINE SHALL BE INSTALLED PER *STANDARD SERVICE & ALTERNATE SERVICE DETAIL.*
5. THE COMPRESSION FITTING SHALL BE A WATER-TIGHT FLEXIBLE TEE CONNECTOR OF SPECIFIED SIZE. (INSERT-A-TEE OR APPROVED EQUAL).
6. UNDERGROUND MAGNETIC MARKERS SHALL BE BERNSTEN INTERNATIONAL DEEP-1UG OR FRSA APPROVED EQUAL.

VERTICAL SERVICE RISER DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

rev. 5/1/23

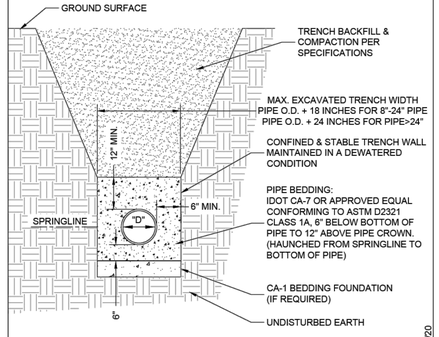
NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL SHALL BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



RIGID PIPE BEDDING DETAIL

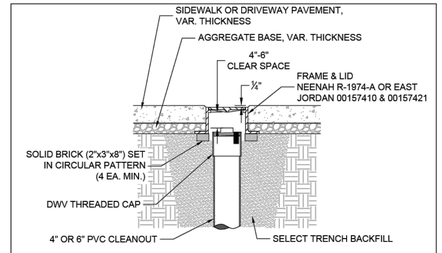
rev. 3/11/20

NOTES:
1. REASONABLE CARE SHALL BE USED WHEN BACKFILLING OVER SEWER. NO MATERIALS SUCH AS ROCKS OR BOULDERS SHALL BE PLACED WITHIN 24" OF THE CROWN OF THE PIPE. NO MATERIAL LARGER THAN 8" DIA. SHALL BE USED IN THE BACKFILL.
2. LOOSE MATERIAL TO BE REMOVED OR COMPACTED PRIOR TO PLACING PIPE BEDDING.
3. BEDDING SHALL BE WELL HAUNCHED ALONG PIPE TO ENSURE VOIDS ARE ELIMINATED.



FLEXIBLE PIPE BEDDING DETAIL

rev. 3/11/20

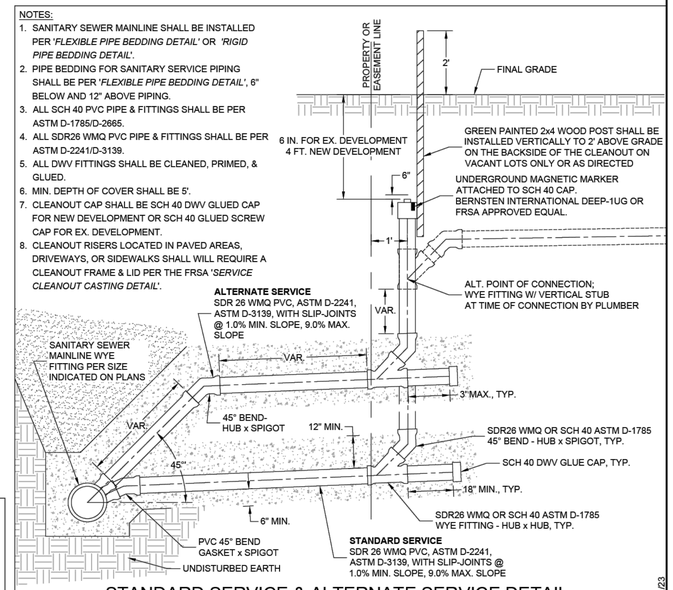


NOTES:
1. SERVICE CLEANOUT CASTINGS ARE REQUIRED FOR ALL CLEANOUTS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS.
2. THE LOCATION OF THE CLEANOUT SHALL BE APPROVED BY FOUR RIVERS SANITATION AUTHORITY (FRSA).
3. THE FRAME SHALL BE SET ON BRICKS THAT ARE PLACED IN A CIRCULAR PATTERN THE ENTIRE CIRCUMFERENCE OF THE FRAME. THE BRICKS SHALL BE SET ON COMPACTED TRENCH BACKFILL.
4. THE FRAME SHALL BE SET TO AN ELEVATION THAT PROVIDES 4"-6" CLEAR SPACE BETWEEN THE TOP OF THE CLEANOUT CAP AND THE BOTTOM OF THE CASTING LID.
5. THE CONTRACTOR SHALL ENSURE THAT THE CLEANOUT CAP CAN BE UNSCREWED AND REMOVED AND REPLACED WITHOUT HINDRANCE.
6. THE FRAME SHALL BE SET ¼" MIN. TO ⅜" MAX. BELOW FINAL PAVEMENT ELEVATION.

SERVICE CLEANOUT CASTING DETAIL

rev. 6/1/22

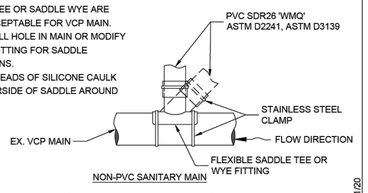
NOTES:
1. SANITARY SEWER MAINLINE SHALL BE INSTALLED PER *'FLEXIBLE PIPE BEDDING DETAIL'* OR *'RIGID PIPE BEDDING DETAIL'*.
2. PIPE BEDDING FOR SANITARY SERVICE PIPING SHALL BE PER *'FLEXIBLE PIPE BEDDING DETAIL'*, 6" BELOW AND 12" ABOVE PIPING.
3. ALL SCH 40 PVC PIPE & FITTINGS SHALL BE PER ASTM D-1785/D-2665.
4. ALL SDR26 WMQ PVC PIPE & FITTINGS SHALL BE PER ASTM D-2241/D-3139.
5. ALL DWV FITTINGS SHALL BE CLEANED, PRIMED, & GLUED.
6. MIN. DEPTH OF COVER SHALL BE 5'.
7. CLEANOUT CAP SHALL BE SCH 40 DWV GLUED CAP FOR NEW DEVELOPMENT OR SCH 40 GLUED SCREW CAP FOR EX. DEVELOPMENT.
8. CLEANOUT RISERS LOCATED IN PAVED AREAS, DRIVEWAYS, OR SIDEWALKS SHALL WILL REQUIRE A CLEANOUT FRAME & LID PER THE FRSA *'SERVICE CLEANOUT CASTING DETAIL'*.



STANDARD SERVICE & ALTERNATE SERVICE DETAIL
(FOR MAINLINE DIA. 8" - 18"; CONNECTION TO >18" MAIN PROHIBITED)

rev. 5/1/23

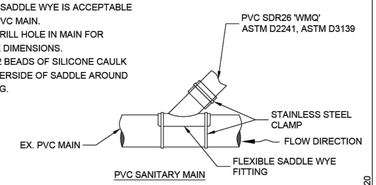
NOTES:
1. ANY SADDLE TEE OR SADDLE WYE ARE BOTH ACCEPTABLE FOR VCP MAIN.
2. CORE DRILL HOLE IN MAIN OR MODIFY EX. VCP FITTING FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO NON-PVC SANITARY MAINS LESS THAN 18" DIA.)

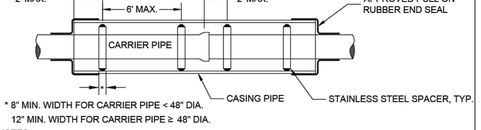
rev. 3/11/20

NOTES:
1. ONLY A SADDLE WYE IS ACCEPTABLE FOR A PVC MAIN.
2. CORE DRILL HOLE IN MAIN FOR SADDLE DIMENSIONS.
3. APPLY 2 BEADS OF SILICONE CAULK TO UNDERSIDE OF SADDLE AROUND OPENING.



FLEXIBLE SADDLE CONNECTION DETAIL
(FOR SERVICE CONNECTIONS TO PVC SANITARY MAINS LESS THAN 18" DIA.)

rev. 3/11/20



* 8" MIN. WIDTH FOR CARRIER PIPE < 48" DIA.
12" MIN. WIDTH FOR CARRIER PIPE ≥ 48" DIA.

NOTES:
1. CASING END SEALS & SPACERS SHALL BE AS MFD. BY CASCADE MFG., OR APPROVED EQUAL.
2. FOR FLEXIBLE CARRIER PIPE, SPACING OF SPACERS TO BE AS SHOWN, OR PER MFR.'S RECOMMENDATION.
3. FOR RIGID CARRIER PIPE, SPACING SHALL BE PER MFR.'S RECOMMENDATION.

CASING & SPACER DETAIL

rev. 5/15/18

Four Rivers Sanitation Authority

FOUR RIVERS SANITATION AUTHORITY
(FRSA) STANDARD DETAIL SHEET
(NOT TO SCALE)
3501 KISHWAUKEE ST.
ROCKFORD, ILLINOIS 61109 PH. (815) 387-7660

ISSUE 05/01/2023

01/01/2021 Revisions:
Manhole Adjustment Detail: Revised notes 1 & 2 with acceptable frames & lids. Modified notes 3, 5, & 7. Added note 8. Revised note 9 to reflect current practice. Deleted note 10 (Authority).
Inside Drop Connection Detail: Revised note 6 & 7. Added note 8.
Service Cleanout Casting Detail: Added this detail

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FRSA STANDARD DETAILS

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PM	JSL

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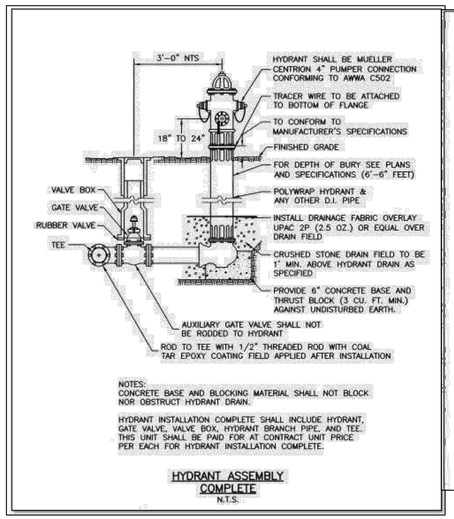
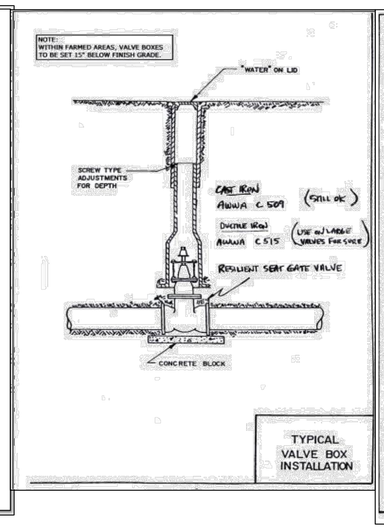
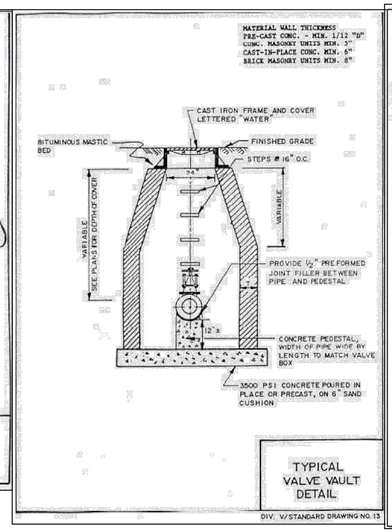
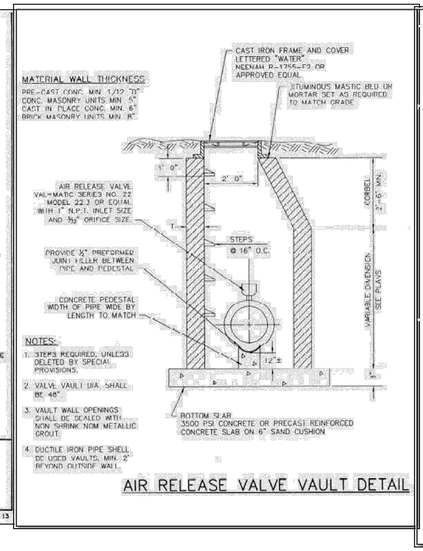
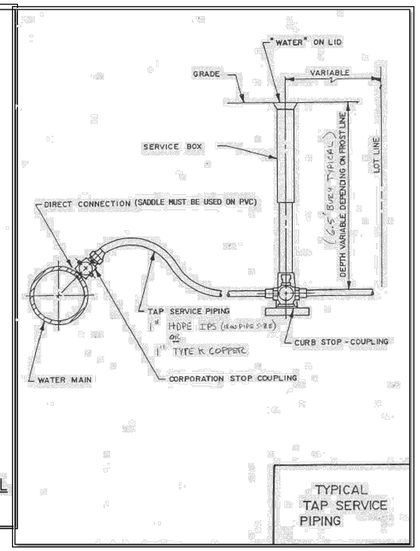
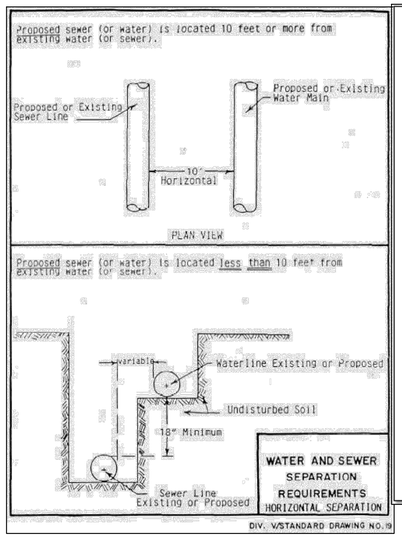


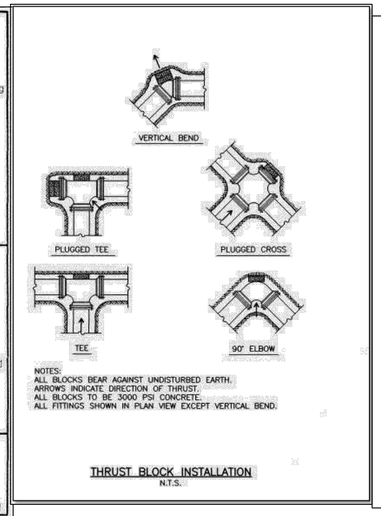


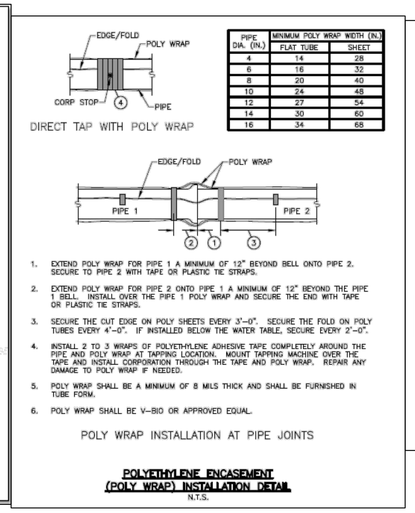




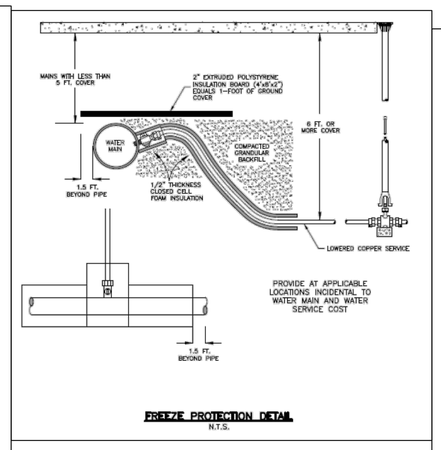


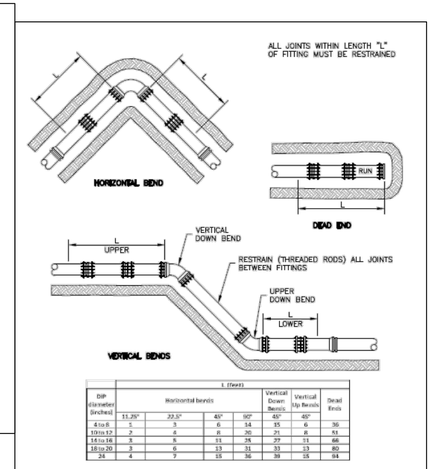






PIPE DIA. (IN.)	MINIMUM POLY WRAP WIDTH (IN.)	
	FLAT TUBE	SHEET
4	14	28
6	16	32
8	20	40
10	24	48
12	27	54
14	30	60
16	34	68





DIP diameter (inches)	L (Feet)						
	Horizontal bends				Vertical Down Bends	Vertical Up Bends	Dead Ends
	11.25°	22.5°	45°	90°	45°	45°	
4 to 8	1	3	6	14	15	6	36
10 to 12	2	4	8	20	21	8	51
14 to 16	3	6	11	26	27	11	66
18 to 20	3	6	13	31	33	13	80
24	4	7	15	36	38	15	94

RESTRAINING GLAND RESTRAINT
N.T.S.

ARC DESIGN RESOURCES INC.
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VOICE: (815) 484-4300
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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
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12. ----	----

REVISIONS

ITEM	DATE
1. ----	----
2. ----	----
3. ----	----
4. ----	----
5. ----	----
6. ----	----

SHEET TITLE

DETAILS

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

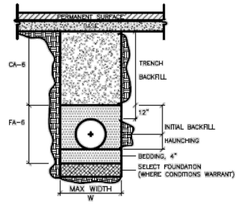
22214

C24

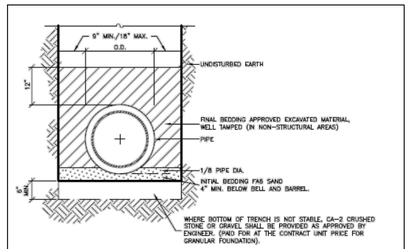
NOTES:

1. THE CONTRACTOR SHALL INSURE THAT ALL TRENCHING OPERATIONS CONFORM TO THE LATEST OSHA REGULATIONS.
2. PIPE BEDDING MATERIAL AND GRANULAR BACKFILL MATERIAL SHALL BE THE SAME AS TRENCH BACKFILL MATERIAL.
3. GRANULAR BACKFILL AND BEDDING MATERIAL SHALL BE INCIDENTAL TO THE CONTRACT.
4. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED AT A MAXIMUM OF 12" INCREMENTS TO 95% STANDARD PROCTOR OPTIMUM DENSITY.
5. APPROVED EXCAVATED MATERIAL SHALL MEET THE REQUIREMENTS OF ARTICLE 1003.04 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. NO COMPENSATION WILL BE ALLOWED AS TRENCH BACKFILL FOR THE PORTION OF THE TRENCH BACKFILLED WITH EXCAVATED MATERIAL.
6. AG-LIME (FA20/FA21) WILL NOT BE ALLOWED FOR TRENCH BACKFILL MATERIAL.
7. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE SAND. TRENCH BACKFILL SHALL BE CA-6.

NOTE:
THESE ITEMS WILL BE INCIDENTAL ON WATER SERVICES.
TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR OPTIMUM DENSITY.



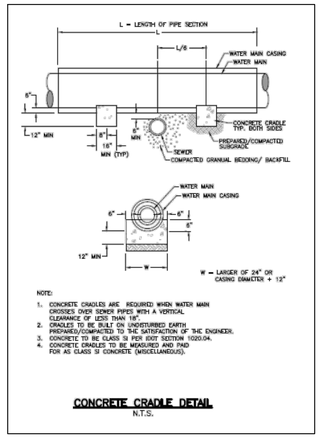
TRENCH BACKFILL AND SELECT FOUNDATION MATERIAL PAY LIMIT SCHEDULE
N.T.S.



NOTES

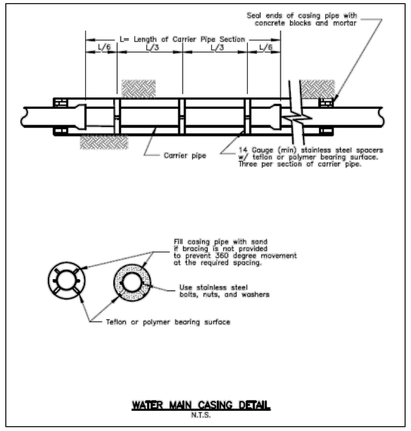
1. SEE TRENCH BACKFILL DETAIL FOR FINAL BEDDING IN STRUCTURAL AREAS
2. INITIAL BEDDING SHALL BE INCIDENTAL TO THE CONTRACT.

WATER MAIN PIPE BEDDING DETAIL
N.T.S.



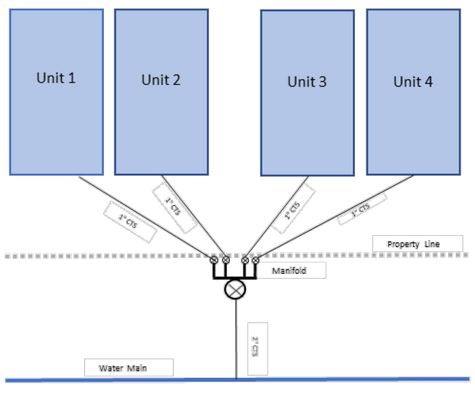
NOTE:
1. CONCRETE CRADLES ARE REQUIRED WHEN WATER MAIN CROSSES OVER SEWER PIPES WITH A VERTICAL CLEARANCE OF LESS THAN 18".
2. CRADLES TO BE BUILT ON UNDISTURBED EARTH/ PREPARED/COMPACTED TO THE SATISFACTION OF THE ENGINEER.
3. CONCRETE TO BE CLASS SI PER IDOT SECTION 1020.04.
4. CONCRETE CRADLES TO BE MEASURED AND PAID FOR AS CLASS SI CONCRETE (MISCELLANEOUS).

CONCRETE CRADLE DETAIL
N.T.S.

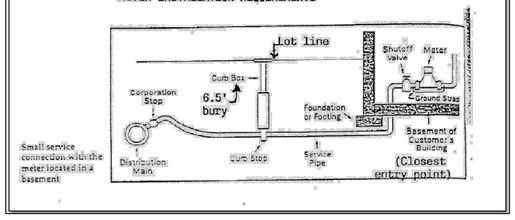


WATER MAIN CASING DETAIL
N.T.S.

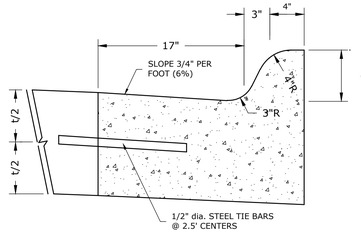
WATER SERVICE MANIFOLD DETAIL



NORTH PARK PUBLIC WATER DISTRICT METER INSTALLATION REQUIREMENTS



CONCRETE CURB & GUTTER, TYPE M-6.18 (MODIFIED)



t SHALL BE 9" MINIMUM WHEN ADJACENT TO FLEXIBLE PAVEMENT.

EXPANSION JOINTS AT 100' INTERVALS AND AT CONSTRUCTION JOINTS INCLUDING
1" PREMOULDED JOINT FILLER AND 1" SMOOTH DOWELS (2).
CONSTRUCTION JOINTS AT 25' INTERVALS.

THICKNESS (t) = THICKNESS OF PAVEMENT AND GUTTER FLAG.

ADJACENT PCC PAVEMENT - ADJACENT PCC PAVEMENT OR BASE COURSE LESS THAN 1' IN WIDTH SHALL BE CONSTRUCTED MONOLITHIC WITH THE CURB AND GUTTER. THIS AREA OF PAVEMENT WILL BE INCLUDED IN THE MEASURED AREA OF THE ADJACENT PAVEMENT.

DEPRESSED CURBS - THE TOP OF CURBS SHALL BE DEPRESSED WHERE THE CURB AND GUTTER IS CONSTRUCTED ACROSS ALLEYS AND FOR PRIVATE DRIVES OR WHERE DIRECTED BY ENGINEER. THE TRANSITION FROM FULL HEIGHT CURB TO DEPRESSED CURB SHALL BE MADE AT THE RATE OF 3" PER FOOT OF LENGTH OR FLATTER.

JOINTS - JOINTS SHALL BE CONSTRUCTED AS DETAILED HEREON. JOINTS SHALL BE PLACED IN PROLONGATION WITH PAVEMENT JOINTS. EXPANSION JOINTS ADJACENT TO DRAINAGE CASTING MAY BE PLACED IN PROLONGATION WITH OTHER JOINT TYPES.

SUBGRADE - 12" THICK IMPROVED SUBGRADE SHALL EXTEND TO THE BACK OF CURB.

MONOLITHIC CONSTRUCTION - CURBS AND COMBINATION CURB AND GUTTER MAY BE CONSTRUCTED MONOLITHICALLY WITH PCC PAVEMENT AT THE OPTION OF THE CONTRACTOR. TIE BARS BETWEEN PAVEMENT AND GUTTER WILL NOT BE REQUIRED. PAVEMENT REINFORCEMENT (WHEN REQUIRED) SHALL BE EXTENDED LATERALLY TO WITHIN 3" TO 5" FROM THE BACK OF THE CURB.

CURB AND COMBINATION CURB AND GUTTER MAY BE CONSTRUCTED MONOLITHICALLY WITH PCC BASE COURSE. TIE BARS WILL BE REQUIRED. TIE BARS SHALL BE HELD IN PROPER LOCATION BY SUPPORT PINS AND APPROVED MECHANICAL MEANS.

LONGITUDINAL JOINTS BETWEEN THE PCC PAVEMENT OR PCC BASE COURSE AND CURB OR COMBINATION CURB AND GUTTER WILL NOT BE REQUIRED.

SLIPFORM CONSTRUCTION - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4" PER FOOT OF HEIGHT TO AID IN SLIPFORM OPERATIONS.

TIE BARS/DOWEL BARS - LONGITUDINAL JOINT TIES BARS SHALL BE IN ACCORDANCE WITH DETAILS FOR BULKHEAD LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 2323. TRANSVERSE JOINT USE ONE TIE/DOWEL BAR FOR GUTTER WIDTH LESS THAN 18" PLACED AT MIDPOINT. TIE/DOWEL BARS IN THE TRANSVERSE HINGE/CONTRACTION JOINTS WILL NOT BE REQUIRED FOR NON- MONOLITHIC CONSTRUCTION.

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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REVISIONS

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SHEET TITLE

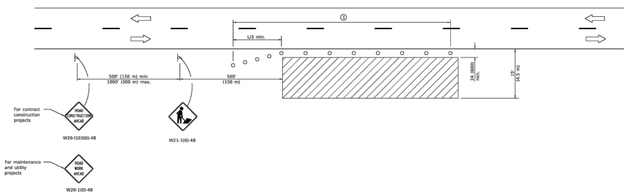
DETAILS

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C25



TYPICAL APPLICATIONS

Utility operations
Culvert extensions
Guardrail installation
Sign post installation and maintenance
Delineator installation
Landscaping operations
Shoulder repair
Sign installation and maintenance

SYMBOLS

Work area
Sign
Cone, drum or barricade

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 20' (6 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

GENERAL NOTES

This Standard is used where any vehicles, equipment, workers or their activities will encroach in the area 15' (4.5 m) to 24 (600) from the edge of pavement.

Calculate L as follows:

SPEED LIMIT	FORMULAS English	(Metric)
40 mph (70 km/h) or less	$L=\frac{WS^2}{60}$	$L=\frac{WS^2}{150}$
45 mph (80 km/h) or greater:	$L=(WS)S$	$L=0.65(WS)S$

W = Width of offset in feet (meters).

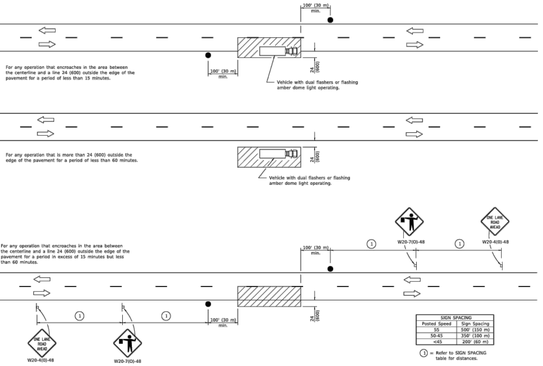
S = Normal posted speed mph (km/h).

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24* (600 mm) FROM PAVEMENT EDGE

STANDARD 701006-05



TYPICAL APPLICATIONS

Warning patches
Field survey
Striping line
Utility operations
Cleaning up debris on pavement

SYMBOLS

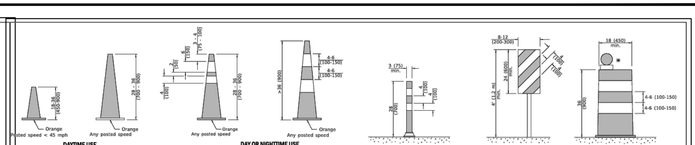
Work area
Sign on portable or permanent support
Flagger with traffic control sign

All dimensions are in inches (millimeters) unless otherwise shown.

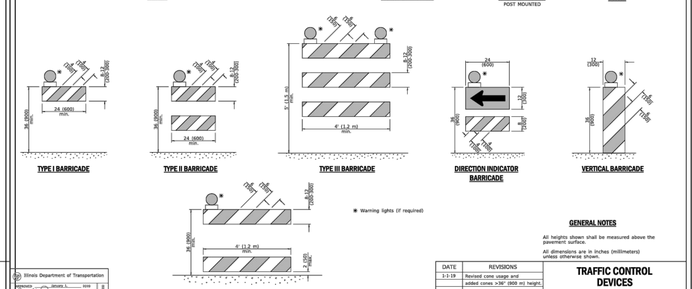
DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric).

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD 701301-04



DAYTIME USE | CONES | DAY OR NIGHTTIME USE | TUBULAR MARKER | VERTICAL PANEL POST MOUNTED | DRUM



TYPE I BARRICADE | TYPE II BARRICADE | TYPE III BARRICADE | DIRECTION INDICATOR BARRICADE | VERTICAL BARRICADE

DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

GENERAL NOTES

All heights shown shall be measured above the pavement surface.

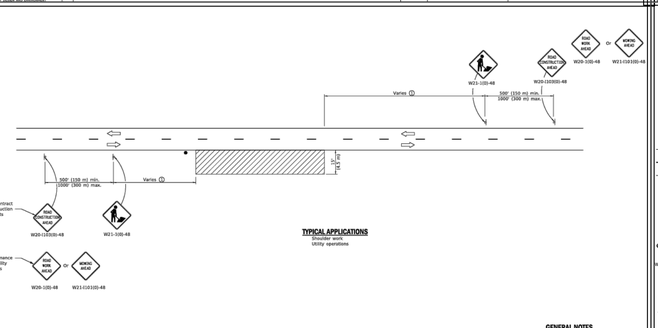
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-19	Revised cone usage and added cones w/36" (900 m) height.
1-1-18	Revised END WORK ZONE SPEED LIMIT sign from

TRAFFIC CONTROL DEVICES

(Sheet 1 of 3)

STANDARD 701901-08



TYPICAL APPLICATIONS

Shoulder work
Utility operations

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

All dimensions are in inches (millimeters) unless otherwise shown.

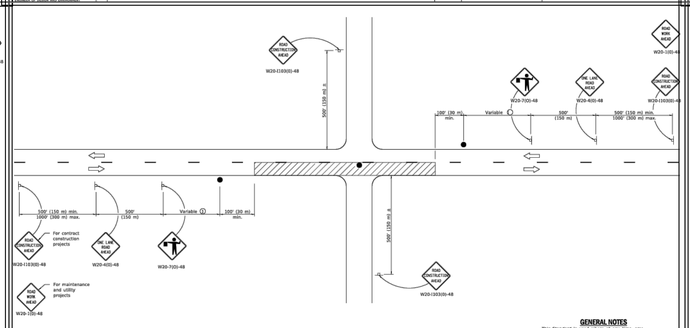
SYMBOLS

Work area
Sign
Flagger with traffic control sign when required

DATE	REVISIONS
1-1-14	Revised workers sign
	number to agree with
	current MUTCD.
1-1-13	Omitted text 'WORKERS'
	sign.

OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY

STANDARD 701011-04



TYPICAL APPLICATIONS

Bituminous resurfacing
Milling operations
Utility operations
Shoulder operations

SYMBOLS

Work area
Sign on portable or permanent support
Flagger with traffic control sign

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed the length of ¼ day's operation or 2 miles (3200 m) whichever is less.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the pavement where the average speed of movement is greater than ¼ mph (1 km/h) and less than 4 mph (6 km/h).

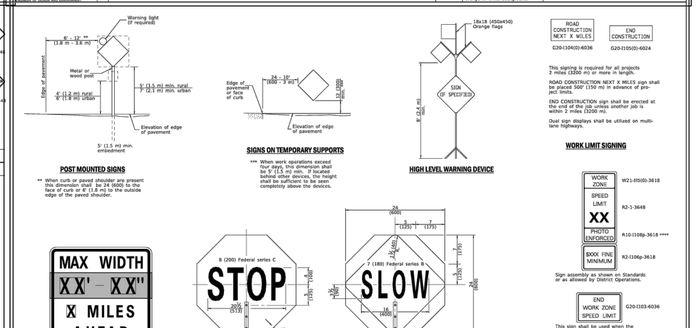
When the operation does not exceed 60 minutes, traffic control may be according to Standard 701351.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-18	Revised lower speed limit for operation to ¼ mph.
1-1-11	Revised flagger sign.

LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH

STANDARD 701306-04



POST MOUNTED SIGNS

** When curb or paved shoulder are present this dimension shall be 24 (600) to the face of curb or 6' (1.8 m) to the outside edge of the paved shoulder.

SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. 3' located 2' (600 mm) above the pavement shall be sufficient to be seen completely above the devices.

HIGH LEVEL WARNING DEVICE

WIDTH RESTRICTION SIGN

XX'-XX" width and X miles are variable.

FLAGGER TRAFFIC CONTROL SIGN

ROAD CONSTRUCTION NEXT X MILES sign — G20-(104)(0)-6036
END CONSTRUCTION — G20-(105)(0)-6024

This signing is required for all projects 2 miles (3200 m) or more in length.

ROAD CONSTRUCTION NEXT X MILES sign shall be placed 500' (150 m) in advance of project limits.

END CONSTRUCTION sign shall be erected at the end of the project when another job is not in the immediate area.

Dual sign displays shall be utilized on multi-lane highways.

WORK LIMIT SIGNING

WORK ZONE / SPEED LIMIT XX / PHOTO ENFORCED — W21-(0)5(0)-3618, R2-1-3648, R10-(1)(0)8-3618 ****
XXXX FINE MINIMUM — R2-(1)06p-3618

Sign assembly as shown on Standards or as allowed by District Operations.

END WORK ZONE SPEED LIMIT — G20-(1)03-6036

This sign shall be used when the above sign assembly is used.

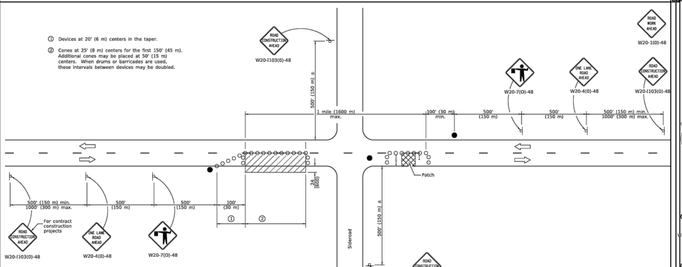
HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R30-(1)08p shall only be used along roadways under the jurisdiction of the State.

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08



TYPICAL APPLICATIONS

Isolated patching
Utility operations
Striping
Culverts
Cable placement

SYMBOLS

Work area
Sign
Barricade or drum
Cone, drum or barricade
Flagger with traffic control sign

GENERAL NOTES

This Standard is used where at any time, any vehicles, equipment, workers or their activities will encroach in the area between the center line and a line 24 (600) outside the edge of pavement for daylight operation.

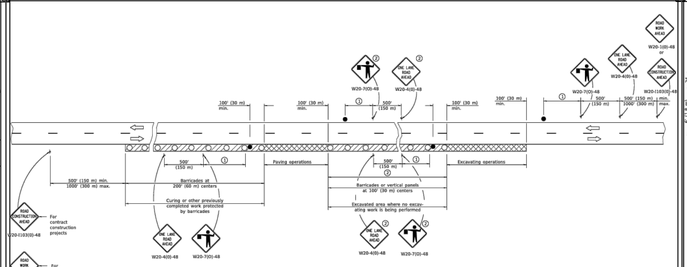
When the distance between successive work areas exceeds 2000' (600 m), additional warning signs, flaggers, and taper shall be placed as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-18	Revised device spacing in taper.
1-1-11	Revised flagger sign.

LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH

STANDARD 701201-05



SYMBOLS

Work area
Active Work area
Sign
Barricade, drum, or vertical panels
Flagger with traffic control sign

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed the length of ¼ day's operation or 2 miles (3200 m) whichever is less.

② Signs are not required if distance between work operations is less than 200' (600 m) unless restricted sight distance exists.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach on the pavement during widening operations.

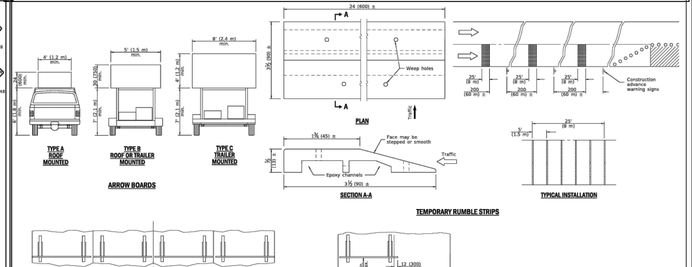
Two flaggers are required for each separate operation.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised flagger sign.
1-1-09	Switched units to English (metric). Corrected sign No.'s.

LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH

STANDARD 701326-04



TYPE A ROOF MOUNTED | TYPE B ROOF OR TRAILER MOUNTED | TYPE C TRAILER MOUNTED

ARROW BOARDS

PLAN

SECTION A-A

TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS

ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the Type III barricade when used if a Type III barricade with an attached sign panel which meets NCHRP 350 is not available. The sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

ROAD CLOSED TO THRU TRAFFIC

Reflectorized striping shall appear on the Type III barricade when used. A Type III barricade with an attached sign panel which meets NCHRP 350 is not available. The sign may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

ARC DESIGN RESOURCES INC.
5291 ZENITH PARKWAY
LOVES PARK, IL 61111
VOICE: (815) 484-4300
FAX: (815) 484-4303
www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
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6. AGENCY APPROVAL	11-25-2024
7. AGENCY APPROVAL	12-18-2024
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REVISIONS

ITEM	DATE
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5.	----
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SHEET TITLE

DETAILS

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C26

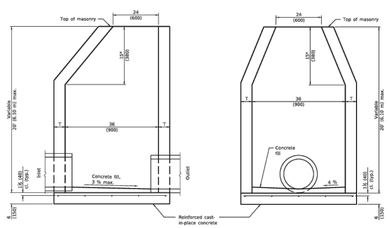
vital™ Cluster Box Units

Pre-configured units include parcel lockers and outgoing mail collection to be used alone or in large groupings. Pedestal included ensures mailboxes and parcel lockers comply with USPS installation regulations. Available in six architectural colors (see page 7).

MODEL #	CBU TYPE	INSTALLED HEIGHT	INSTALLED WIDTH	INSTALLED DEPTH	PEDESTAL HEIGHT	WEIGHT (LBS)	STANDARD TENANT COMPARTMENT DIMENSIONS	MAILBOX COMPARTMENTS	PARCEL LOCKERS
1570-8XX	vital™ Type I CBU	62"	30-1/2"	18"	28-1/2"	144	3"H x 12"W x 15"D	8	2
1570-12XX	vital™ Type II CBU	62"	30-1/2"	18"	28-1/2"	144	3"H x 12"W x 15"D	12	1
1570-16XX	vital™ Type III CBU	62"	30-1/2"	18"	14-1/2"	175	3"H x 12"W x 15"D	16	2
1570-13XX	vital™ Type IV CBU	62"	30-1/2"	18"	14-1/2"	167	4-3/4"H x 12"W x 15"D	13	1
1570-4T5XX	vital™ Type V CBU	62"	30-1/2"	18"	28-1/2"	145	6-1/2"H x 12"W x 15"D	4	2
1570-8T6XX	vital™ Type VI CBU	62"	30-1/2"	18"	14-1/2"	176	3"H x 12"W x 15"D	8	4

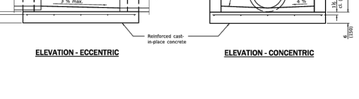
Note: Exchange "XX" in Model # above for two-digit color reference: Black=BK Dark Bronze=DB Sandstone=SD Postal Grey=PG White = WH Forest Green = FG

* For precast reinforced concrete sections, this dimension may vary from the dimension given to plus 6 (150).



ELEVATION - ECCENTRIC **ELEVATION - CONCENTRIC**

ALTERNATE MATERIALS FOR WALLS	T (min.)
Concrete Masonry Unit	5 (125)
Brick Masonry	8 (200)
Precast Reinforced Concrete Section	3 (75)
Cast-in-Place Concrete	6 (150)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft. (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

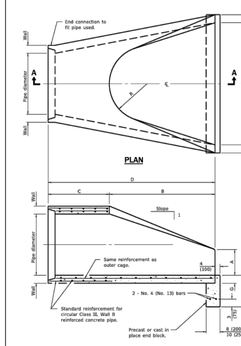
APPROVED _____ DATE _____ 2011
ENGINEER OF BRIDGES AND STRUCTURES

APPROVED _____ DATE _____ 2011
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Revised general notes.
1-1-09	Switched units to English (metric).

INLET - TYPE B

STANDARD 602306-03



PIPE DIA.	APPROX. QTY. lbs./ (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅝" (1.241 m)	6'-0⅝" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2½ (57)	6 (152)	27 (686)	5'-0" (1.168 m)	6'-1" (1.854 m)	30 (762)	2½ (57)	11 (280)	1:2.4
18 (450)	890 (405)	2½ (64)	6 (152)	30 (762)	5'-0" (1.168 m)	6'-1" (1.854 m)	30 (762)	2½ (64)	11 (280)	1:2.4
21 (525)	1280 (585)	3⅜ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2½ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3½ (83)	10½ (267)	4'-0" (1.219 m)	2'-3⅛" (640)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3½ (83)	14⅞ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-4" (1.375 m)	1'-9⅛" (527)	6'-1½" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.3
33 (825)	3200 (1450)	3½ (133)	13½ (343)	4'-10⅛" (1.486 m)	1'-9⅛" (591)	8'-1½" (2.476 m)	5'-6" (1.676 m)	3½ (175)	17⅞ (454)	1:2.5
36 (900)	4100 (1860)	4 (102)	13 (330)	5'-0" (1.524 m)	1'-9⅛" (645)	8'-1½" (2.483 m)	6'-0" (1.829 m)	4 (102)	18 (568)	1:2.5
42 (1050)	5280 (2440)	4½ (114)	21 (533)	5'-0" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.3
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-0" (1.651 m)	35 (889)	8'-9" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	10200 (4960)	6 (152)	30 (762)	6'-0" (1.524 m)	27 (991)	8'-9" (2.515 m)	8'-0" (2.438 m)	6 (127)	*	1:1.8
66 (1650)	10710 (4985)	6½ (165)	33 (762)	6'-0" (1.829 m)	27 (686)	8'-9" (2.515 m)	8'-6" (2.591 m)	6½ (165)	*	1:1.7
72 (1800)	12320 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-9" (2.514 m)	9'-0" (2.743 m)	6 (152)	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	39 (914)	7'-0" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	16360 (8240)	8 (203)	39 (914)	7'-6⅝" (2.299 m)	21 (533)	9'-3⅝" (2.822 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED _____ DATE _____ 2011
ENGINEER OF BRIDGES AND STRUCTURES

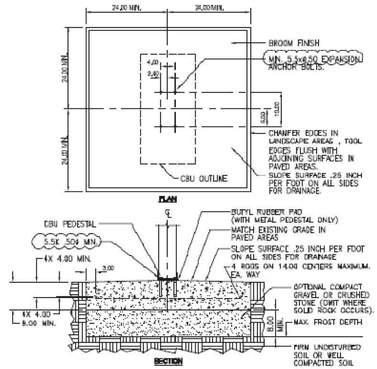
APPROVED _____ DATE _____ 2011
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia.
	on Section A-A; Changed
	'inner' to 'outer' cage ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

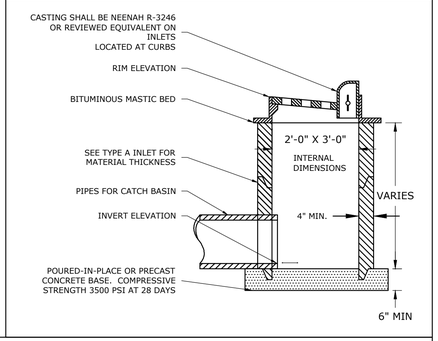
CLUSTER BOX UNIT (CBU) INSTALLATION - SINGLE UNIT



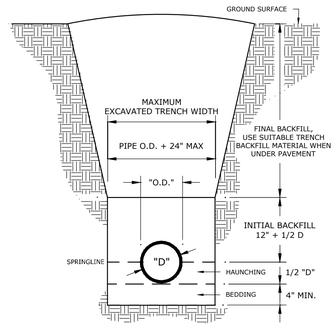
NOTES:
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONTAIN 4% MIN. – 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3.50–4.50 SLUMP IN ACCORDANCE WITH ACI 301
2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
3. EXPANSION BOLTS SHALL BE EQUIVALENT TO THE FOLLOWING PROVIDERS:
   a. HILTI KWIK BOLT (www.us.hilti.com) 1-1/2" DIAMETER x 3-1/2" OVERALL LENGTH
      GALVANIZED, CATALOG #: 000-453-896
      KB II 12-512, STAINLESS STEEL: CATALOG #: 000-454-744
      ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 3-1/2".
   b. ITW RAMSET REDHEAD TRUEBOLT (www.ramset-redhead.com) GALVANIZED, 1/2" DIAMETER x 7" OVERALL LENGTH; CATALOG NUMBER: WS-12706
      ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4-1/4".
   c. RAWL STUD (www.rawl.com) GALVANIZED, 1/2" DIAMETER x 5-1/2" OVERALL LENGTH; CATALOG NUMBER: 7724
      ENSURE THAT THE MIN. EMBEDMENT IN CONCRETE IS AT LEAST 4".

Detail: CLUSTER BOX UNIT (CBU) INSTALLATION - SINGLE UNIT	Fac.	Ch.	Sect.	Para.	Detail
	G	1	- 2 -	0	e
CAD File: ../uspsl/library/details/G1-2-0e	Scale: 1/2" = 1'-0"			USPS SSL Issued: 10/1/2016 Last Revised: 10/27/2016	

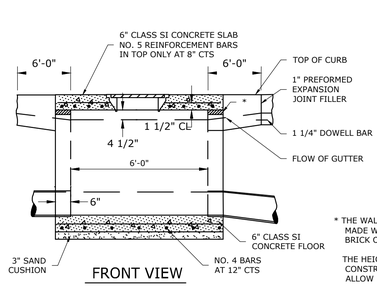
INLET 700



PIPE EMBEDMENT



INLET SPECIAL NO. 3 AND 5

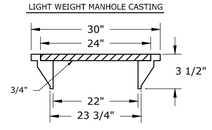


1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THOUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 160 LBS.

* THE WALL ADJUSTMENT SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS

NOTES

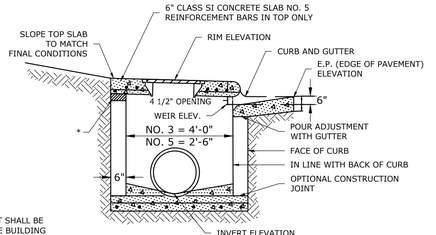
THE INLET SHALL BE CAST IN PLACE OR PRECAST.

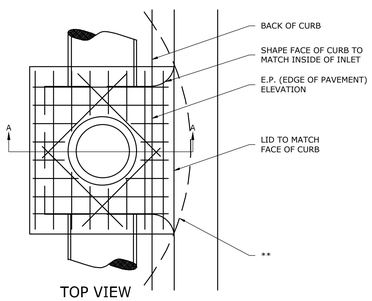
EXCEPT AS NOTED HEREON INLET SPECIAL NO. 3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO.. 3 SHALL INCLUDE THE COST OF

REINFORCEMENT BARS, FLOOR AND TOP SLABS. FURNISHING AND INSTALLING THE FRAME, LID, THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6 FT. ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.





** WHEN INLET IS CONSTRUCTED IN RETURN THE TOP OF THE SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

ARC DESIGN RESOURCES INC.
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LOVES PARK, IL 61111
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www.arcdesign.com
Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

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REVISIONS

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SHEET TITLE

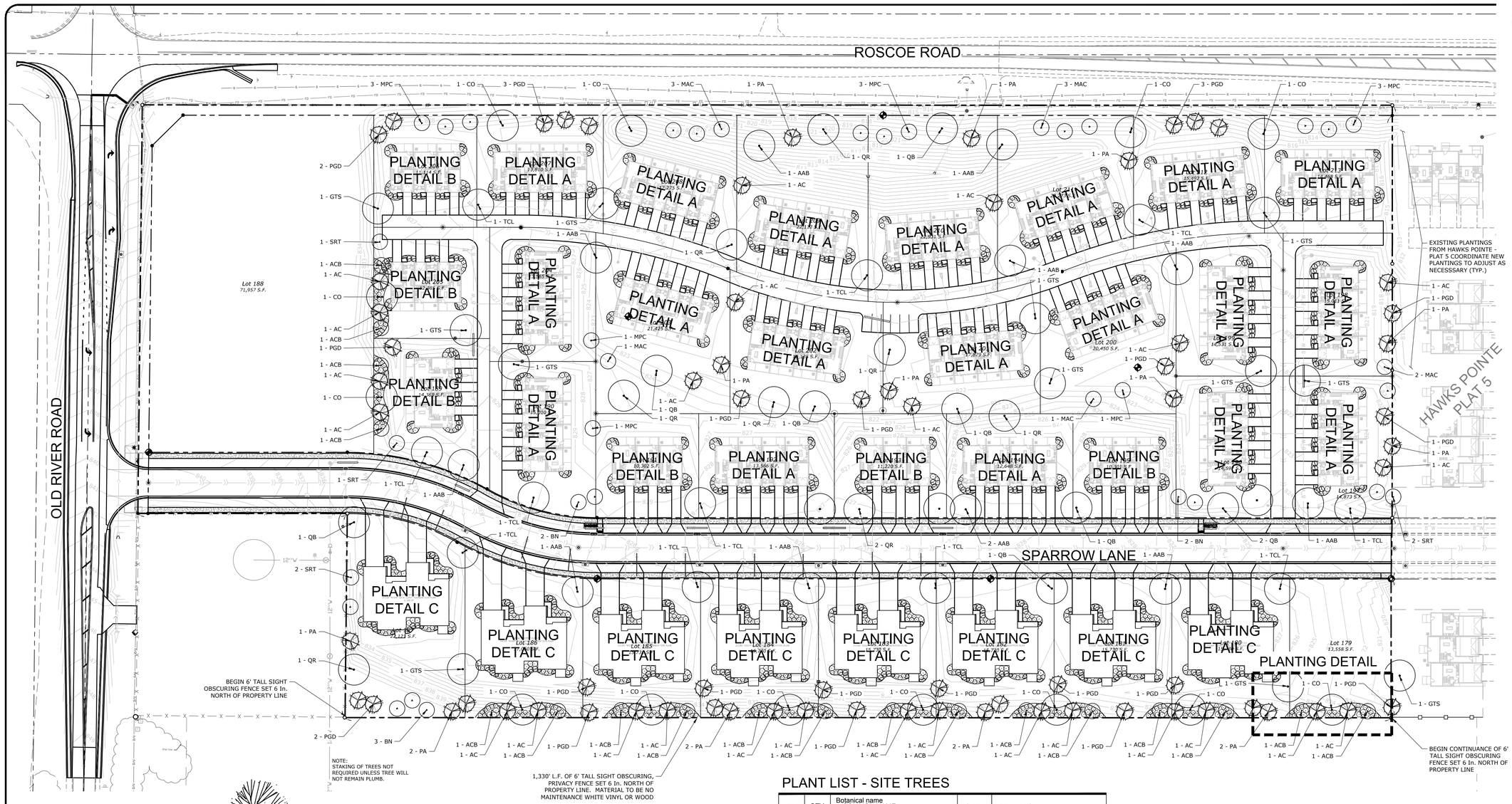
DETAILS

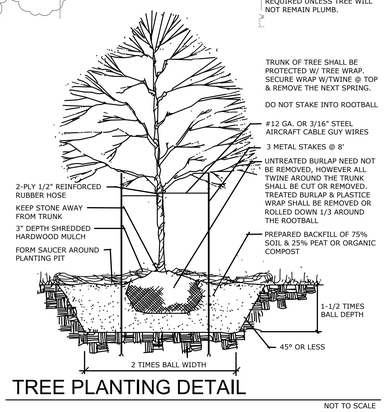
DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

C27





TREE PLANTING DETAIL

NOT TO SCALE

PLANT LIST - SITE TREES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
AAB	13	Acer freemanii 'Autumn Blaze' AUTUMN BLAZE MAPLE	2.5"	HYBRID RED MAPLE SHADE TREE
ACB	18	Amelanchier Canadensis x 'Autumn Brilliance' AUTUMN BRILLIANCE SERVICE BERRY	7'	MULTISTEM, ORNAMENTAL
AC	26	Abies concolor WHITE FIR	6'	EVERGREEN
BN	7	Betula nigra RIVER BIRCH	7'	MULTISTEM
CO	13	Celtis occidentalis COMMON HACKBERRY	2.5"	LARGE SHADE TREE
GTS	12	Gleditsia triacanthos 'Skyline' SKYLINE HONEYLOCUST	2.5"	SHADE TREE
MAC	10	Malus x 'Adirondack' ADIRONDACK CRABAPPLE	7'	MULTISTEM, UPRIGHT ORNAMENTAL
MPC	12	Malus x 'Prairie Fire' PRAIRIE FIRE CRABAPPLE	7'	MULTISTEM, UPRIGHT ORNAMENTAL
PA	17	Picea abies NORWAY SPRUCE	6'	EVERGREEN
PGD	26	Picea glauca x densata BLACK HILLS SPRUCE	6'	EVERGREEN
QB	9	Quercus bicolor SWAMP WHITE OAK	2.5"	LARGE SHADE TREE
QR	9	Quercus rubrum RED OAK	2.5"	LARGE SHADE TREE
TCL	11	Tillia cordata LITTLE LEAF LINDEN	2.5"	SHADE TREE
SRT	8	Syringa reticulata JAPANESE TREE LILAC	7'	MULTISTEM ORNAMENTAL

LEGEND

- MIXED PERENNIALS / ORNAMENTAL GRASSES
- EVERGREEN / DECIDUOUS SHRUBS
- LARGE DECIDUOUS SHADE TREE
- EVERGREEN TREE / ORNAMENTAL TREE

N O R T H
0 50' 75' 100'

FOR BUFFER AND UNIT PLANTING DETAILS SEE SHEET L02

ARC DESIGN RESOURCES INC.
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HAWKS POINTE PLAT 6

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REVISIONS

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SHEET TITLE

LANDSCAPE PLAN
SITE OVERVIEW

DRAWN	DB
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

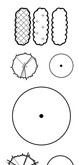
L01

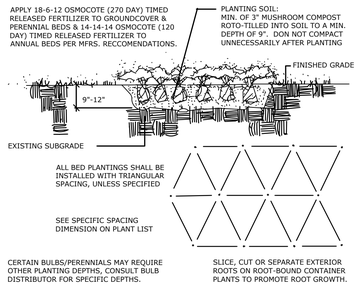
FOR OVERALL SITE TREE PLANTING, SEE SHEET L02

PLANTING NOTES

1. Contractor shall verify locations of all underground utilities prior to begining construction on his phase of work. Electric, gas, telephone, and cable television can be located by calling J.U.L.I.E. at '811'. For regional locating, contact "Digger's Hotline". Any damage or interruption of services shall be the responsibility of the contractor. Contractor to coordinate all related activities with other trades on the job and shall report any unacceptable job conditions to owner's representative prior to commencing work.
2. Contractor shall grade entire site to correct surface irregularities in preparation for sod/seed. Roto-til, disc, drag, harrow or hand rake sub grade in all lawn areas and remove construction debris, foreign matter or stones larger than 2". Grading shall provide slopes which are smooth, continuous, free from depressions or ridges. Level, rake and roll as necessary to an even and true condition and obtain positive drainage in all areas. Finish grades shall meet the approval of owner prior to lawn installation.
3. All disturbed areas should be brought to grade with "topsoil" to a depth of 6 inches in areas to be seeded or sodded, and 12 inches for all interior (curbed) landscape islands All lawn areas are to be finished with mulch, straw mulch, seed, sod, etc. or as noted. All lawn areas to be watered until a healthy stand of grass is established. (see seed/sod notes for acceptance details).
4. Quantity lists are supplied as a convenience; however, the contractor should verify all quantities. The drawings shall take precedence over the lists.
5. Plantings may need to be adjusted in the field to accommodate utilities, easements, drainage ways, downspouts, etc.; however, quantities and sizes shall remain consistent with these plans.
6. Size & grading standards of plant material shall conform to the latest addition of ANSI Z60.1 AMERICAN STANDARD OF NURSERY STOCK, by the American Nursery & Landscape Association. Plant material shall be nursery grown and be either balled and burlap or container grown.
7. All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Landscape Architect and/or Owner.
8. Any plant materials with damaged or crooked/disfigured leaders, bark abrasion, sun scald, insect damage, etc. are not acceptable and will be rejected by Landscape Architect and/or Owner. Trees with multiple leaders will be rejected unless called for in the plant list as multi-stem or clump.
9. All plant material, especially trees, must be sourced within a fifty (100) mile radius of the subject property or construction site.
10. Upon inspection and acceptance of all landscape items by Landscape Architect and/or Owner the contractor shall assume maintenance responsibilities for a period of thirty (30) days, for all plant material, to include: watering, cultivating, weeding, pruning, mulching and spraying as necessary to keep plants free of insects and in a healthy, vigorous condition until responsibility is transferred to the owner (see below).
11. All plant material shall be guaranteed for one (1) year after acceptance by landscape architect and/or owner. After the first thirty (30) days, the owner shall assume maintenance responsibilities as described (see above). Contractor shall replace without cost to owner any dead or unacceptable plants, as determined by the landscape architect at the end of one (1) year guarantee period. Contractor shall notify immediately, in writting, any concerns related to maintenance practices.
12. All planting beds and tree saucers shall be mulched continuous with 3" depth shredded hardwood mulch, see planting details. All deciduous trees (shade / ornamental) that are not located in in a planting bed shall be mulched with a 3'-0" diameter circle. Evergreen trees and mulit-stemmed ornamental trees shall be mulched to outer-most branches at the time of installation.
13. Planting edge delineation at all planting bed lines and tree saucers shall require a minimum 4" depth "vee" shaped cultivated, spaded edge with a vertical face abutting all lawn areas and sloped to inside of plant bed continuous between lawn and mulched areas as indicated on plan.
14. Contractor to seed all disturbed lawn areas. Seeded lawn to be a combination of bluegrass, perennial rye and red fescue with the suggested following analysis by weight: 30% rugby Kentucky bluegrass, 20% park Kentucky bluegrass, 20% creeping red fescue, 20% scaldis hard fescue, and 10% perennial ryegrass. Seed to be applied at a rate of 4 lbs. per 1,000 s.f.. All seeded lawn areas shall be covered with straw mulch or erosion control netting, consisting of hand or machine application at a rate of 2 ton per acre. Mulch shall be compact enough to reduce erosion of seed and topsoil but loose enough to allow air to circulate. Install per Method 1, Section 251, of the Standard Specifications for Road and Bridge Construction.
15. All seeded turf areas shall be fertilized at installation with 6-20-20 analysis, at a rate of 6 lbs. per 1,000 s.f.. A second application of 21-7-14 to be applied at rate of 6 lbs. per 1,000 s.f. after the first cutting. Acceptance and guarantee notes shall apply to all seeded areas.
16. Acceptance of grading and seed shall be by landscape architect and/or owner. Contractor shall assume maintenance responsibilities for a minimum of sixty (60) days or until second cutting, whichever is longer. Maintenance shall include watering, weeding, re-seeding (wash-offs) and other operations necessary to keep lawn in a thriving condition. Upon final acceptance, owner shall assume all maintenance responsibilities. After lawn areas have germinated, areas which fail to show a uniform stand of grass for any reason whatsoever shall be re-seeded repeatedly until all areas are covered with a satisfactory stand of grass. Minimum acceptance of seeded lawn areas may include scattered bare or dead spots, none of which are larger than one (1) square foot and when combined do not exceed 2% of total lawn area.

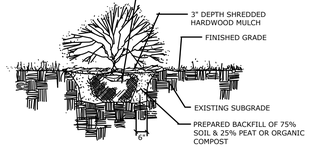
LEGEND





BED PLANTING DETAIL

(GROUNDCOVER, PERENNIALS & ANNUALS) NOT TO SCALE

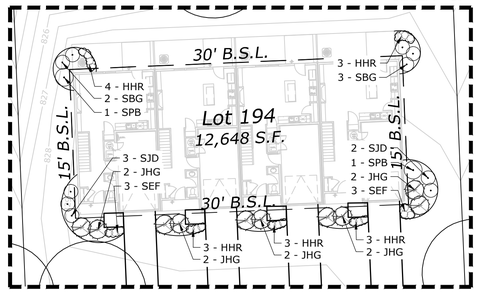


SHRUB PLANTING DETAIL

NOT TO SCALE

PLANTING DETAIL 'A'

SCALE: 1" = 20'



PLANT LIST - PLANTING DETAIL 'A'

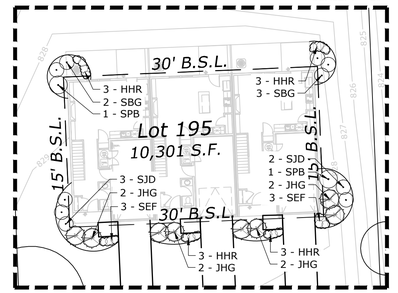
OCCURS 19 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	10	Juniperus horizontalis 'Hegedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	5	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24" / 5 GAL	
SJD	5	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
HHR	16	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	6	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

PLANT COUNTS ARE FOR ONE UNIT, MULTIPLY BY TOTAL # OF UNITS

PLANTING DETAIL 'B'

SCALE: 1" = 20'



PLANT LIST - PLANTING DETAIL 'B'

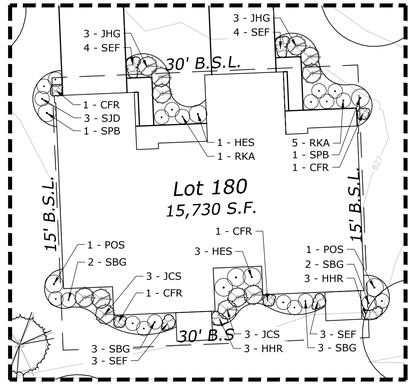
OCCURS 6 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	8	Juniperus horizontalis 'Hegedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	5	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24" / 5 GAL	
SJD	5	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
HHR	12	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	6	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL

PLANT COUNTS ARE FOR ONE UNIT, MULTIPLY BY TOTAL # OF UNITS

PLANTING DETAIL 'C'

SCALE: 1" = 20'



PLANT LIST - PLANTING DETAIL 'C'

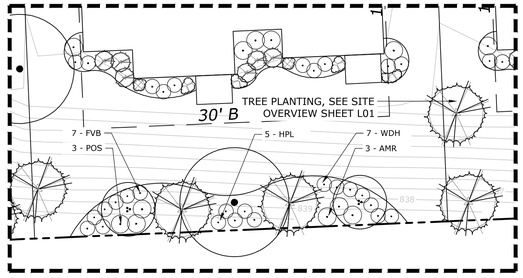
OCCURS 8 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
JHG	6	Juniperus horizontalis 'Hegedus' GOOD VIBRATIONS GOLD JUNIPER	5 GAL	EVERGREEN
SBG	10	Spiraea betulifolia 'Glow Girl' GLOW GIRL TOR SPIREA	24" / 5 GAL	
SJD	3	Spiraea japonica 'Double Play' DOUBLE-PLAY ARTISAN SPIREA	24"	
SPB	2	Syringa patula x 'Bloomerang' DWARF REBLOOMING KOREAN LILAC	24" / 5 GAL	
HHR	6	Hemerocallis 'Happy Returns' HAPPY RETURNS DAYLILY	GAL	2'-0" O.C. - PERENNIAL
SEF	14	Salvia x 'East Friesland' FRIESLAND MEADOW SAGE	GAL	2'-0" O.C. - PERENNIAL
POS	2	Physocarpus opulifolia 'Summer Wine' SUMMER WINE PHYSOCARPUS	30"	DECIDUOUS SHRUB
HES	4	Hydrangea microphylla 'Endless Summer' ENDLESS SUMMER HYDRANGEA	5 GAL.	
CFR	4	Calamagrostis acutiflora 'Karl Forster' FEATHER REED GRASS	GAL	3'-0" O.C. - ORN. GRASS
RKA	8	Rhododendron x 'Karen' KAREN AZALEA	5 GAL.	
JCS	6	Juniperus chinensis 'Sea Green' SEA GREEN JUNIPER	5 GAL.	18" HEIGHT AT INSTALL / EVERGREEN

PLANT COUNTS ARE FOR ONE UNIT, MULTIPLY BY TOTAL # OF UNITS

BUFFER PLANTING DETAIL

SCALE: 1" = 20'



PLANT LIST - BUFFER PLANT DETAIL

OCCURS 9 TIMES

KEY	QTY	Botanical name COMMON NAME	SIZE	REMARKS
AMR	3	Aronia melanocarpa RED CHOKEBERRY	30"	DECIDUOUS SHRUB
FVB	7	Forsythia viridissima 'Bronxensis' DWARF FORSYTHIA	18"	DECIDUOUS SHRUB
HPL	5	Hydrangea panniculata 'Limelight Prime' LIMELIGHT PRIME HYDRANGEA	24"	DECIDUOUS SHRUB
POS	3	Physocarpus opulifolia 'Summer Wine' SUMMER WINE PHYSOCARPUS	30"	DECIDUOUS SHRUB
WDH	7	Wiegela x 'Dark Horse' DARK HORSE WEIGELA	18"	DECIDUOUS SHRUB

PLANT COUNTS ARE FOR ONE UNIT, MULTIPLY BY TOTAL # OF UNITS

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Illinois Design Firm License No. 184-001334

PROJECT NAME
OWNER'S NAME

HAWKS POINTE
PLAT 6

SPARROW LANE
ROSCOE, IL 61073
WINNEBAGO COUNTY

THE WHITE OAK TRUST
747 GLEASMAN ROAD
ROSCOE, IL 61073

CONSULTANTS

ISSUED FOR

	DATE
1. AGENCY REVIEW	02-22-2023
2. AGENCY APPROVAL	04-17-2023
3. AGENCY APPROVAL	05-15-2023
4. OWNER REVIEW	07-16-2024
5. AGENCY REVIEW	08-06-2024
6. AGENCY APPROVAL	11-25-2024
7. AGENCY APPROVAL	12-18-2024
8. ---	---
9. ---	---
10. ---	---
11. ---	---
12. ---	---

REVISIONS

ITEM	DATE
1. ---	---
2. ---	---
3. ---	---
4. ---	---
5. ---	---
6. ---	---

SHEET TITLE

LANDSCAPE PLAN
PLANTING DETAIL

DRAWN	MJH
CHECKED	JSL
PM	JSL

PROJECT NUMBER
SHEET NUMBER

22214

L02