## EASEMENT RELEASE AGREEMENT

**THIS EASEMENT RELEASE AGREEMENT** ("Agreement") is made as of this 6th day of May, 2024, by and between the **CITY OF AURORA**, an Illinois municipal corporation ("City"), **PULTE HOME COMPANY, LLC**, a Michigan limited liability company ("Pulte"), and **OSWEGO COMMUNITY UNIT SCHOOL DISTRICT NO. 308**, a body corporate and politic ("District") (the City, Pulte, and District may each be referred to herein as a "Party" and together, as the "Parties").

### RECITALS

**WHEREAS,** the Lincoln Prairie Planned Development District was approved for a mixed use residential and commercial development consisting of approximately five hundred twenty-five (525) acres generally located south of Wolf's Crossing Road, east of Eola Road and US Route 30, and north of 111th Street ("Lincoln Prairie");

**WHEREAS,** Pulte is developer of Lincoln Prairie and is under contract to purchase and develop portions of Lincoln Prairie in phases;

**WHEREAS,** Pulte has submitted plans to the City for the development of an approximately 34-acre portion of Lincoln Prairie ("Lincoln Crossing South");

**WHEREAS,** District owns certain property located northwest of Lincoln Prairie , upon which is located Wolf's Crossing Elementary and Bednarcik Junior High School (the "School Property");

**WHEREAS,** In connection with development of the School Property, District was granted a perpetual easement to construct, operate, maintain, inspect, remove, replace and reconstruct stormwater pipelines, together with such equipment and appurtenances as necessary (the "District Stormwater Improvements"), across a portion of Lincoln Prairie as set forth in the Grant of Easement for Stormwater Pipeline and Related Purposes dated October 17, 2001 and recorded in the Will County Recorder's Office on September 29, 2011 as document number R2011091108 (the "Grant of Easement");

**WHEREAS,** District constructed the aforementioned District Stormwater Improvements pursuant to the Grant of Easement and subsequently dedicated the District Stormwater Improvements to the City for the ownership, operation, maintenance, and repair thereof;

**WHEREAS,** Section 2 of the Grant of Easement provides that right to modify and relocate the District Stormwater Improvements, so long as said modification or relocation of the District Stormwater Improvements is done without cost to District and so long as said modification or relocation in no way impedes the flow of stormwater from the School Property;

**WHEREAS,** in connection with Pulte's acquisition and development of Lincoln Crossing South, Pulte intends to demolish the District Stormwater Improvements and reroute the stormwater from the School Property through the new stormwater infrastructure (the "LP Stormwater Improvements") constructed by Pulte in association with the development of Lincoln Crossing

South and as generally depicted on the Stormwater Improvement Plan, a copy of which is attached hereto as Exhibit "A" (the "Stormwater Improvement Plan");

**WHEREAS,** Pulte will grant, as a condition to the approval of Lincoln Crossing South, such easements as the City determines necessary and appropriate to convey stormwater from the School Property through Lincoln Prairie, and at the direction of the City, will dedicate necessary and appropriate components of the LP Stormwater Improvements to the City;

**WHEREAS,** the Parties have determined that, upon construction of the LP Stormwater Improvements, the Grant of Easement will no longer be required, and it will be in the best interest of the Parties for the Grant of Easement to be terminated and of no further force and effect.

**NOW THEREFORE,** in consideration of the terms contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby mutually acknowledged, the Parties hereby agree as follows:

## ARTICLE I
## AGREEMENT

1. **Recitals.** The recitals set forth above are material terms of this Agreement and are hereby incorporated as substantive terms of this Agreement.

2. **Effective Date.** This Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective grantees, successors, and assigns as of the date set forth hereinabove (the "Effective Date"). However, this Agreement is expressly contingent upon Pulte's acquisition of Lincoln Crossing South within one (1) year following the Effective Date. If Pulte does not acquire Lincoln Crossing South within one (1) year of the Effective Date, then this Agreement shall be null and void, having no further force and effect.

3. **Construction of LP Stormwater Improvements**. Pulte shall construct the LP Stormwater Improvements within one (1) year of the date that Pulte acquires Lincoln Crossing South. Pulte shall construct the LP Stormwater Improvements at its sole cost and expense. The LP Stormwater Improvements shall be constructed pursuant to final engineering plans approved by the City and in compliance with all applicable laws, rules and regulations governing stormwater management. The construction of the LP Stormwater Improvements shall be deemed to be completed upon written certification thereof by the City ("Certificate of Completion").

4. **Ownership & Maintenance of LP Stormwater Improvements**. Pulte shall be responsible for the ownership, operation and maintenance of the LP Stormwater Improvements. The Parties acknowledge and agree that certain components of the LP Stormwater Improvements may be dedicated to the City for the City's ownership and operation thereof. Components of the LP Stormwater Improvements not dedicated to the City will ultimately be conveyed to one or more homeowners associations associated within Lincoln Prairie. The Parties acknowledge and agree that the components of the LP

Stormwater Improvements owned by a homeowners association shall be subject to public utility and drainage easements ("PUDE") and a special service area ("SSA"). The PUDE and the SSA will give the City the authority to operate and maintain portions of the LP Stormwater Improvements owned by the homeowners association at the sole cost and expense of members of the homeowners association.

5. **Termination of Grant of Easement.** Upon the City's issuance of a Certificate of Completion, the District shall execute the Termination of Grant of Easement attached hereto as Exhibit "B" and deliver the same to Pulte.

## ARTICLE II
## GENERAL PROVISIONS

6. **Notices.** Any notice, request, or demand to be given or served hereunder shall be in writing and shall be delivered personally, by e-mail transmission, by facsimile transmission, by commercial overnight courier service, or by United States registered or certified mail, return receipt requested, addressed to the parties at their respective addresses set forth below, and the same shall be effective: (a) upon receipt or refusal of delivery, if delivered personally, by e-mail, facsimile transmission, or by commercial overnight courier, or (b) three (3) business days after deposit in the United States mail, if mailed. Any party may change its address for receipt of notice by service of a notice of such in accordance with the terms hereof.

If to City:
44 E Downer Place
Aurora, Illinois 60505
Email:

With a Copy to:
44 E Downer Place
Aurora, Illinois 60505

If to Pulte: Matt Brolley
1900 E. Golf Road #300
Schaumburg, IL 60173
Email: Matt.brolley@pultegroup.com

With a Copy to: Russell G. Whitaker, III
Rosanova & Whitaker, Ltd.
445 Jackson Ave #200
Naperville, Illinois 60540
Email: russ@rw-attorneys.com

If to District No. 308 Raphael Obafemi, CSBO

Oswego CUSD 308
4175 Route 71
Oswego, IL 60543
robafemi@sd308.org

With a Copy to:

Stuart Whitt
Whitt Law LLC
70 S. Constitution Drive
Aurora, IL 60506
swhitt@whittlaw.com

7. **Modification and Waiver.** This Agreement may not be changed, amended, or modified in any respect whatsoever or any obligation contained herein be waived, except in writing signed by the Parties.

8. **Time is of the Essence.** Time is of the essence with respect to all obligations required by this Agreement.

9. **Complete Agreement.** This Agreement supersedes all prior agreements and understandings, written and oral, between the parties hereto related to the subject matter hereof.

10. **Attorneys' Fees.** In the event any legal proceedings are initiated in connection with this Agreement, the substantially prevailing party shall be entitled to collect its reasonable attorneys' fees, costs, and expenses in connection therewith from the substantially non-prevailing party.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first above written.

**OSWEGO COMMUNITY UNIT SCHOOL DISTRICT NO. 308**
a body corporate and politic

By: _____
Name:
Its:

*Attest:*

By: _____
Name:
Its:

**PULTE HOME COMPANY, LLC**
a Michigan limited liability company

By: _____
Name: Robert Getz
Its: Vice President

**THE CITY OF AURORA**
an Illinois municipal corporation

By: _____
Name:
Its:

*Attest:*

By: _____
Name:
Its:

State of Illinois
County of COOK

I, the undersigned, a Notary Public, in and for the County and State aforesaid, DO HEREBY CERTIFY that ROB GETZ personally known to me to be the VICE PRESIDENT of **Pulte Home ~~Group~~ COMPANY, LLC** and the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that s/he signed and delivered the said instrument as her/his free and voluntary act and as the free and voluntary and duly authorized act of PULTE HOME COMPANY for the uses and purposes therein set forth.

Given under my hand and NOTARIAL SEAL this 10TH day of JUNE, 2024.

Notary Public

OFFICIAL SEAL
MATTHEW T BROLLEY
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 07/12/2026

**EXHIBIT "A"**
Stormwater Improvement Plan

OWNER: LINCOLN PRAIRIE AURORA, LLC
CONTACT: TY MORRIS
ADDRESS: 1900 GOLF ROAD, SUITE 300
CITY: SCHAUMBURG, IL 60173
PH.: 630-201-3411

## Proposed Final Improvements for

# LINCOLN CROSSING SOUTH

## INTERSECTION OF EOLA ROAD AND U.S. HIGHWAY 30
## CITY OF AURORA, ILLINOIS

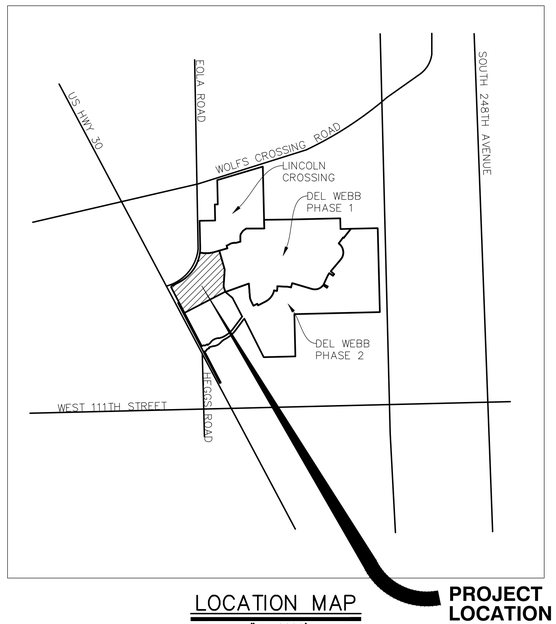
## STANDARD SYMBOLS

| EXISTING | | PROPOSED |
|---|---|---|
| | STORM SEWER | |
| | SANITARY SEWER | |
| | COMBINED SEWER | |
| FM | FORCEMAIN | FM |
| | DRAINTILE | |
| W | WATER MAIN | W |
| E | ELECTRIC | E |
| G | GAS | G |
| T | TELEPHONE | T |
| OH | OVERHEAD WIRES | OH |
| | SANITARY MANHOLE | |
| | STORM MANHOLE | |
| | CATCH BASIN | |
| | STORM INLET | |
| | CLEANOUT | |
| | RIP RAP | |
| | VALVE IN VAULT | |
| | VALVE IN BOX | |
| | FIRE HYDRANT | |
| | BUFFALO BOX | |
| | FLARED END SECTION | |
| | STREET LIGHT | |
| | SUMMIT / LOW POINT | S/L |
| 795.20 / 790.25 | RIM ELEVATION / INVERT ELEVATION | 795.25 / 790.20 |
| | DITCH OR SWALE | |
| | DIRECTION OF FLOW | |
| | OVERFLOW RELIEF SWALE | |
| 764 | 1 FOOT CONTOURS | 764 |
| | CURB AND GUTTER | |
| | DEPRESSED CURB AND GUTTER | |
| | REVERSE CURB AND GUTTER | |
| | SIDEWALK | |
| | DETECTABLE WARNINGS | |
| | PROPERTY LINE | |
| | EASEMENT LINE | |
| | SETBACK LINE | |
| | MAIL BOX | |
| | SIGN | |
| | TRAFFIC SIGNAL | |
| | POWER POLE | |
| | GUY WIRE | |
| | GAS VALVE | |
| | HANDHOLE | |
| E | ELECTRICAL EQUIPMENT | |
| T | TELEPHONE EQUIPMENT | |
| 2000' | CHAIN-LINK FENCE | |
| 792.8 | SPOT ELEVATION | 792.8 C |
| | BRUSH/TREE LINE | |
| 16" | DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR) | 16" |
| 25' | CONIFEROUS TREE WITH HEIGHT IN FEET (TBR) | 25' |
| S | SILT FENCE | S |
| | RETAINING WALL | |
| | WETLAND | |

## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| ADJ | ADJUST | F/L | FLOW LINE | R.O.W. | RIGHT-OF-WAY |
| AGG. | AGGREGATE | FM | FORCE MAIN | RCP | REINFORCED CONCRETE PIPE |
| ARCH | ARCHITECT | G | GROUND | REM | REMOVAL |
| B.A.M. | BITUMINOUS AGGREGATE MIXTURE | G/F | GRADE AT FOUNDATION | REV | REVERSE |
| B-B | BACK TO BACK | GW | GUY WIRE | RR | RAILROAD |
| B/C | BACK OF CURB | HDWL | HEADWALL | RT | RIGHT |
| B/P | BOTTOM OF PIPE | HH | HANDHOLE | SAN | SANITARY |
| B/W | BACK OF WALK | HWL | HIGH WATER LEVEL | SF | SQUARE FOOT |
| B-BOX | BUFFALO BOX | HYD. | HYDRANT | SHLD. | SHOULDER |
| BIT. | BITUMINOUS | INL | INLET | SL | STREET LIGHT |
| BM | BENCHMARK | INV. | INVERT | SMH | SANITARY MANHOLE |
| B.O. | BY OTHERS | IP | IRON PIPE | ST | STORM |
| C.E. | COMMERCIAL ENTRANCE | LT | LEFT | STA. | STATION |
| CB | CATCH BASIN | MAX. | MAXIMUM | STD | STANDARD |
| ℄ | CENTERLINE | MB | MAILBOX | SW | SIDEWALK |
| CMP | CORRUGATED METAL PIPE | M/E | MEET EXISTING | SY | SQUARE YARDS |
| CNTRL | CONTROL | MH | MANHOLE | TBR | TO BE REMOVED |
| C.O. | CLEANOUT | MIN. | MINIMUM | T | TELEPHONE |
| CONC. | CONCRETE | NWL | NORMAL WATER LEVEL | T-A | TYPE A |
| CY | CUBIC YARD | P.E. | PRIVATE ENTRANCE | T/C | TOP OF CURB |
| D | DITCH | PC | POINT OF CURVATURE | T/F | TOP OF FOUNDATION |
| DIA. | DIAMETER | PCC | POINT OF COMPOUND CURVE | T/P | TOP OF PIPE |
| DIP | DUCTILE IRON PIPE | PGL | PROFILE GRADE LINE | T/W | TOP OF WALK |
| DIWM | DUCTILE IRON WATER MAIN | PI | POINT OF INTERSECTION | T/WALL | TOP OF WALL |
| DS | DOWNSPOUT | ℄ | PROPERTY LINE | TEMP | TEMPORARY |
| DT | DRAIN TILE | PP | POWER POLE | TRANS | TRANSFORMER |
| E | ELECTRIC | PROP. | PROPOSED | V.B. | VALVE BOX |
| E-E | EDGE TO EDGE | PT | POINT OF TANGENCY | VCP | VITRIFIED CLAY PIPE |
| ELEV. | ELEVATION | PVC | POLYVINYL CHLORIDE PIPE | V.V. | VALVE VAULT |
| E/P | EDGE OF PAVEMENT | PVC | POINT OF VERTICAL CURVATURE | WL | WATER LEVEL |
| EX. | EXISTING | PVI | POINT OF VERTICAL INTERSECTION | WM | WATER MAIN |
| F.E. | FIELD ENTRANCE | PVT | POINT OF VERTICAL TANGENCY | | |
| F-F | FACE TO FACE | P | PAVEMENT | | |
| F.F. | FINISHED FLOOR | P.U.D.E. | PUBLIC UTILITY & DRAINAGE EASEMENT | | |
| FES | FLARED END SECTION | R | RADIUS | | |

MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.




LOCATION MAP
1" = 2000'

**BENCHMARKS:**

SOURCE BENCHMARK:
FOUND SURVEY DISK LOCATED APPROXIMATELY 30.6' WEST OF THE CENTERLINE OF FRONTENAC, 25.5' SOUTH OF THE CENTERLINE OF MONTGOMERY RD., AND 2.6' SOUTHEAST OF GAS POST.
ELEVATION = 712.15

SITE BENCHMARK 1:
SOUTHWEST FLANGE BOLT ON FIRE HYDRANT LOCATED APPROXIMATELY 300' SOUTHWEST OF THE INTERSECTION OF WOLFS CROSSING RD. AND HOFFMAN BLVD. APPROXIMATELY 35' SOUTH OF THE CENTERLINE OF WOLFS CROSSING RD.
ELEVATION = 700.31

SITE BENCHMARK 2:
SOUTHWEST FLANGE BOLT ON FIRE HYDRANT LOCATED APPROXIMATELY 500' NORTHEAST OF THE INTERSECTION OF WOLFS CROSSING RD. AND EOLA RD. APPROXIMATELY 35' SOUTH OF THE CENTERLINE OF WOLFS CROSSING RD.
ELEVATION = 700.97

## INDEX OF SHEETS


| SHEET NO. | DESCRIPTION |
|---|---|
| 1 | TITLE SHEET |
| 2 | MASTER OVERALL SITE PLAN |
| 3 | INDEX OF SHEETS |
| 4 | EXISTING CONDITIONS AND DEMOLITION PLAN |
| 5 | OVERALL STORM AND WATER PLAN |
| 6 | OVERALL SANITARY PLAN |
| 7 | OVERALL GRADING PLAN |
| 8 | GRADING PLAN - A |
| 9 | GRADING PLAN - B |
| 10 | GRADING PLAN - C |
| 11 | GRADING PLAN - D |
| 12 | GRADING DETAILS |
| 13 | SOIL EROSION AND SEDIMENT CONTROL PLAN |
| 14 | SOIL EROSION AND SEDIMENT CONTROL PLAN DETAILS |
| 15 | ROAD C PLAN AND PROFILE - STA. 0+00 TO STA. 9+00 |
| 16 | ROAD C PLAN AND PROFILE - STA. 9+00 TO STA. 18+00 |
| 17 | ROAD C PLAN AND PROFILE - STA. 18+00 TO STA. 24+00 |
| 18 | ROAD C PLAN AND PROFILE - STA. 24+00 TO STA. 31+00 |
| 19 | ROAD C PLAN AND PROFILE - STA. 31+00 TO STA. 35+41 |
| 20 | ROAD A PLAN AND PROFILE - STA. 0+00 TO STA. 5+12 |
| 21 | ROAD B PLAN AND PROFILE - STA. 0+00 TO STA. 4+32 |
| 22 | STREET LIGHT AND SIGNAGE PLAN |
| 23 | CITY OF AURORA CONSTRUCTION DETAILS |
| 24 | CITY OF AURORA CONSTRUCTION DETAILS |
| 25 | CITY OF AURORA CONSTRUCTION DETAILS |
| 26 | FMWRD CONSTRUCTION DETAILS |
| 27 | IDOT CONSTRUCTION DETAILS |
| 28 | IDOT CONSTRUCTION DETAILS |
| 29 | NOTES AND SPECIFICATIONS |
| 30 | NOTES AND SPECIFICATIONS |


**ATTACHMENTS:**

1. H1-H23 EOLA ROAD PHASE 3 IMPROVEMENTS
2. LANDSCAPE ARCHITECTURE DRAWINGS, PREPARED BY SIGNATURE DESIGN GROUP, DATED 01/10/2024

**NOTES:**

1. THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A FIELD SURVEY COMPLETED BY MANHARD CONSULTING, LTD. ON AUGUST, 31, 2020. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

**SITE INFO**

TOTAL GROSS ACREAGE: 34.41 ACRES
TOTAL DWELLING UNITS: 97 UNITS

| UTILITY CONTACTS | |
|---|---|
| ELECTRIC<br>COMED<br>1950 DUNCAN PLACE<br>WOODSTOCK, IL 60098<br>(815) 334-3305<br>CONTACT: DEBRA BURNS | WATER<br>CITY OF AURORA - PUBLIC WORKS<br>77 SOUTH BROADWAY - 2ND FLOOR<br>AURORA, IL 60505<br>(630) 256-3200<br>CONTACT: KEN SCHROTH |
| GAS<br>NICOR GAS<br>(630) 605-1586<br>CONTACT: KELLY TURNER | TELEPHONE<br>AT&T<br>(779) 230-6088<br>CONTACT: JAMES OSKVAREK |
| SEWER<br>FOX METRO WATER RECLAMATION DISTRICT<br>1135 S. LAKE STREET<br>MONTGOMERY, IL 60538<br>(630) 301-6805<br>CONTACT: MIKE FRANKINO | TELEPHONE<br>COMCAST<br>(224) 229-6581<br>CONTACT: TOM PRZYBYLINSKI |


Manhard CONSULTING
333 East Butterfield Road, Suite 600, Lombard, IL 60148 ph:630.691.8500 fx:630.691.8585 manhard.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners


Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

JOSEPH M. IOVINELLI
062-069635
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
EXP. 11/30/25
SEAL

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners
PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: TY MORRIS, LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIEDY, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
TITLE SHEET

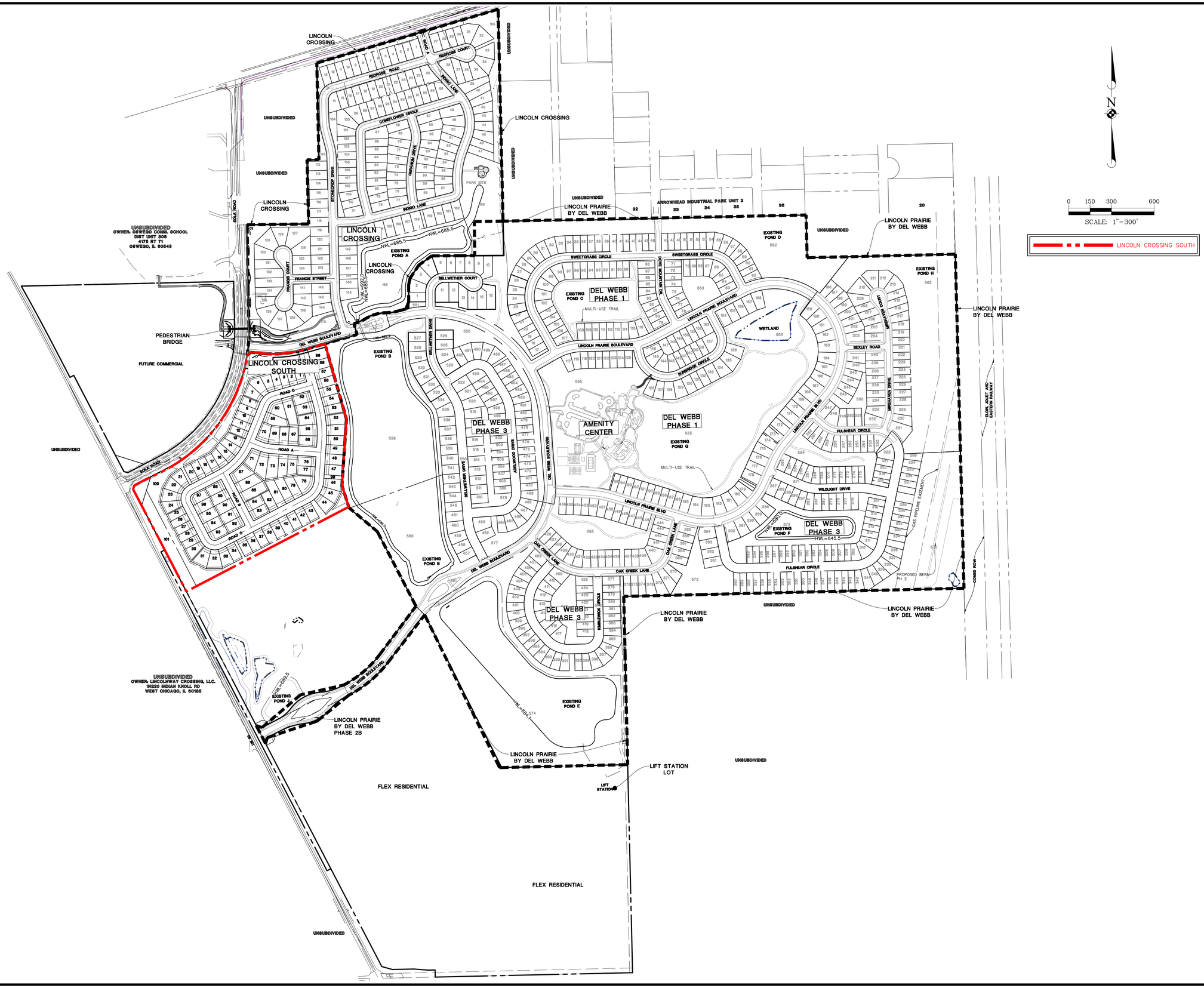
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 2000'

SHEET 1 OF 30
PUL.AUIL01


© 2024 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED


NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 9, 2024 - 10:42 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\data\Engr\Final Drawings\Plan Set\01 - TITLE SHEET.dwg Updated By: RWeber




DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Industrial • Mixed-Use • Land Development • Water & Wastewater

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
FEIL ORGANIZATION - ATTN: JOE MURRAY
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHARDSON, P.E.
(630) 772-2073

# LINCOLN CROSSING SOUTH
## CITY OF AURORA, ILLINOIS
## MASTER OVERALL SITE PLAN

| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | IAP |
| DRAWN BY: | OMT |
| DATE: | 01/10/24 |
| SCALE: | 1"=300' |

SHEET 2 OF 30

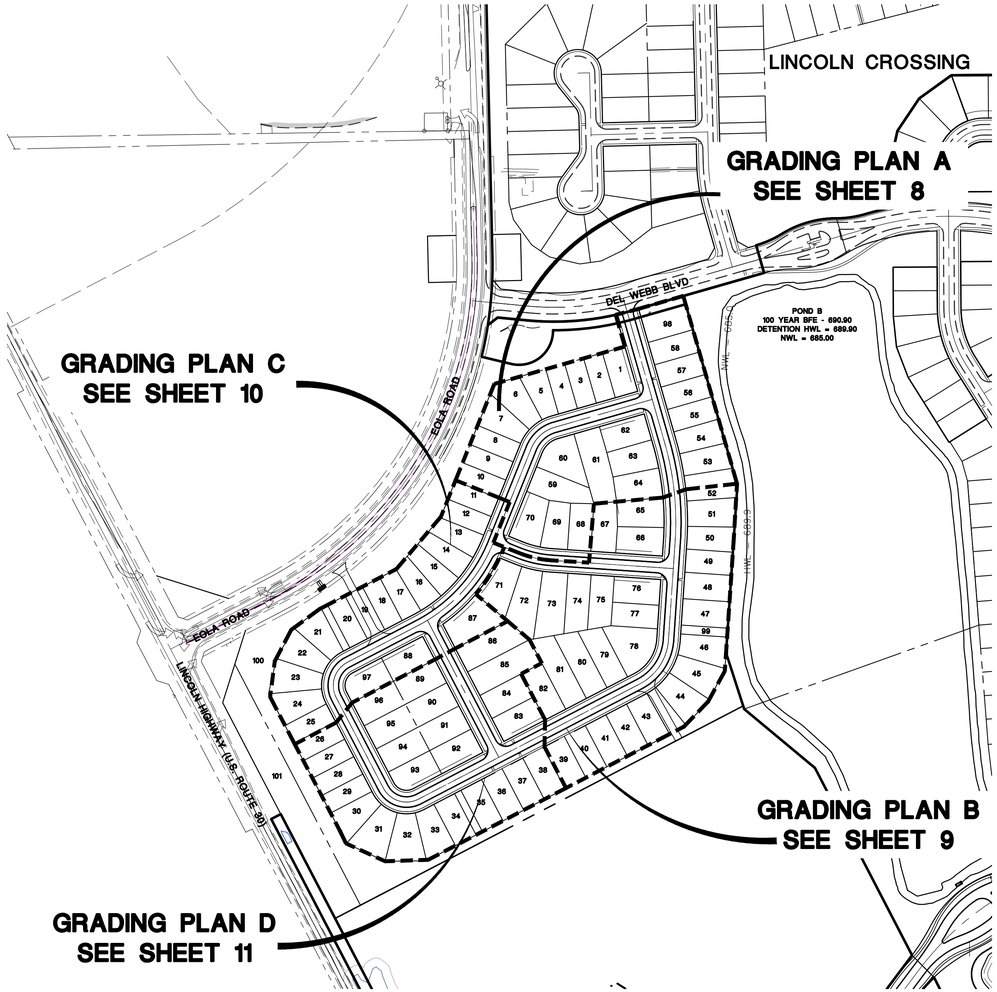
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

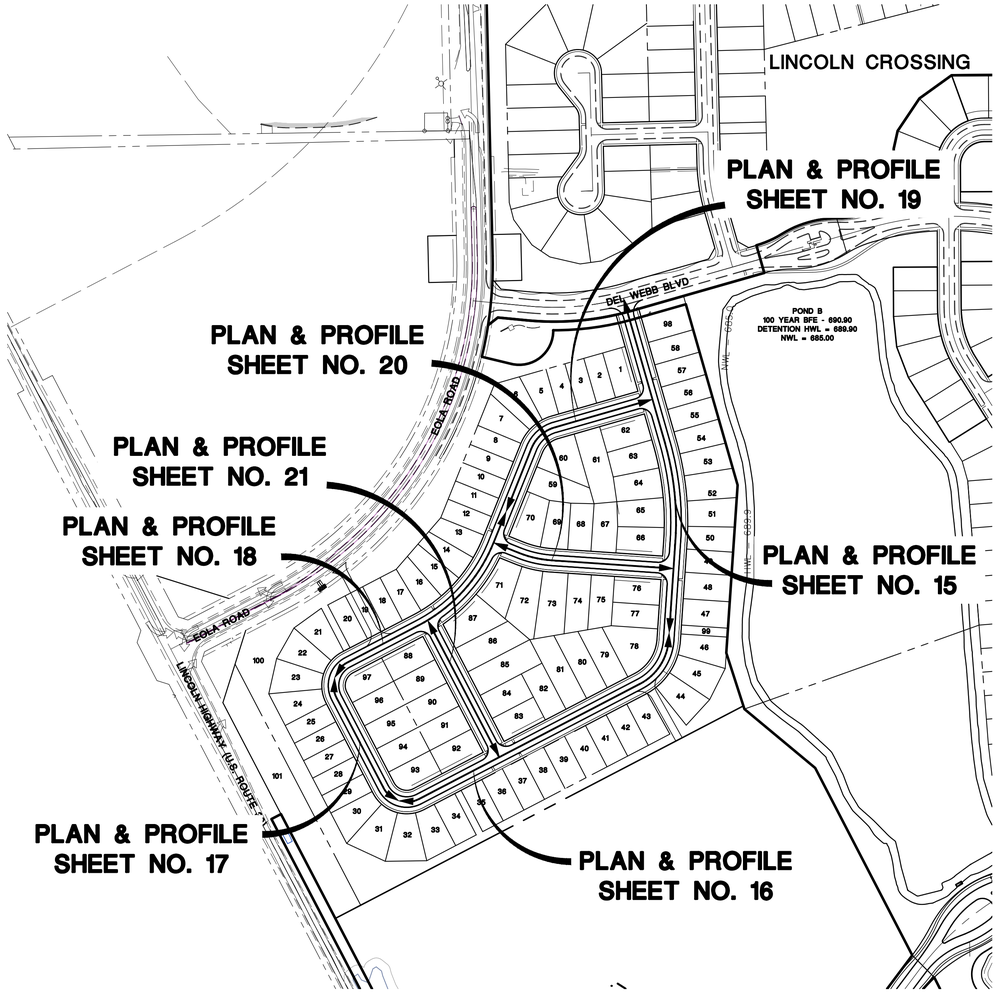
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 9, 2024 - 16:27 Dwg Name: P:\Pubs\01\LINCOLN CROSSING SOUTH\Data\Engr\Plan Sets\02- MASTER OVERALL SITE PLAN - LCS.dwg Updated By: RPorrovillo

## GRADING PLAN INDEX




## PLAN AND PROFILE INDEX




0 100 200 400

SCALE: 1"=200'

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Engineers
Commercial • Residential • Mixed-Use • Industrial • Institutional • Recreational

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIEDY, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

INDEX OF SHEETS

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 200'

SHEET
3 OF 30
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 11:27 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Eng\Engr Drawings\Plan Set\02 - INDEX OF SHEETS.dwg Updated By: RPorterton

SCALE: 1"=50'

SCALE: 1"=100'

**EXISTING CONDITIONS AND DEMOLITION NOTES:**

1. EXISTING CONDITIONS AND DEMOLITION PLAN REPRESENT SITE CONDITIONS AS OF 08/31/2020. CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING WORK TO VERIFY ACTUAL FIELD CONDITIONS AS PORTIONS OF THE DEMOLITION WORK MAY HAVE SINCE BEEN COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLETE ALL DEMOLITION WORK AS PER PLANS TO PREPARE THE SITE FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS.
2. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
3. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL JURISDICTIONAL GOVERNING ENTITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, ROAD, PARKING LOTS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
4. REFER TO SPECIFICATIONS SHEET FOR DEMOLITION NOTES.

**DEMOLITION LEGEND**

- BITUMINOUS PAVEMENT AND BASE TO BE REMOVED
- SAWCUT LINE
- FENCE, RETAINING WALL, RAILROAD TIES, POLES, CURB AND GUTTER, ETC. TO BE REMOVED
- UTILITY STRUCTURE TO BE REMOVED
- UTILITY LINE REMOVAL, FILL OR ABANDONMENT (REFER TO SPECIFICATIONS)
- (TBR) TO BE REMOVED
- (TR) TO REMAIN

**DEPRESSURIZING EXISTING WATERMAINS:**

UNDER MOST CIRCUMSTANCES, DEPRESSURIZING PORTIONS OF THE CITY OF AURORA'S WATER DISTRIBUTION SYSTEM WILL NOT BE ALLOWED. IN THE EVENT THAT THE ENGINEERING DIVISION DETERMINES THAT DEPRESSURIZING AN EXISTING WATERMAIN IS UNAVOIDABLE, THE FOLLOWING SHALL BE REQUIRED:

1. THE PORTION OF WATERMAIN TO BE DEPRESSURIZED MUST BE ISOLATED FROM ANY EXISTING ACTIVE WATER SERVICES. IF NECESSARY, TEMPORARY LINE STOPS AND OR PERMANENT PRESSURE INSERTION VALVES SHALL BE INSTALLED IN ORDER TO AVOID IMPACTING EXISTING WATER CUSTOMERS.
2. THE ENTIRE SECTION OF WATERMAIN THAT IS DEPRESSURIZED MUST BE FLUSHED. IN ORDER TO ACHIEVE MINIMUM FLUSHING VELOCITIES IN ACCORDANCE WITH AURORA'S STANDARD SPECIFICATIONS FOR IMPROVEMENTS, FIRE HYDRANTS OR CORPORATION STOP(S) WITH TEMPORARY WHIPS MAY NEED TO BE INSTALLED. THE CITY OF AURORA'S WATER AND SEWER MAINTENANCE DIVISION SHALL BE ON SITE DURING ALL FLUSHING OPERATIONS. CONTACT THE WATER AND SEWER MAINTENANCE DIVISION AT 630-256-3710 TO SCHEDULE INSPECTION OF FLUSHING OPERATIONS.
3. THE WATERMAIN SHALL BE FLUSHED UNTIL A MINIMUM TOTAL CHLORINE CONCENTRATION OF 1.0 MG/L IS OBTAINED. WATER AND SEWER MAINTENANCE PERSONNEL SHALL BE RESPONSIBLE FOR MEASURING TOTAL CHLORINE CONCENTRATIONS.
4. AFTER THE WATERMAIN HAS BEEN PROPERLY FLUSHED AND IS PRESSURIZED, WATER AND SEWER MAINTENANCE PERSONNEL SHALL COLLECT A SAMPLE FOR BACTERIOLOGICAL SAMPLING.
5. FROM THE TIME THAT THE WATERMAIN IS DEPRESSURIZED UNTIL NOTIFICATION IS RECEIVED FROM THE CITY OF AURORA THAT THE RESULTS OF THE WATER SAMPLE(S) ANALYST IS SATISFACTORY, SUFFICIENT VALVES AND OR TEMPORARY LINE STOPS SHALL REMAIN CLOSED TO ENSURE THAT THE PORTION OF DEPRESSURIZED WATERMAIN IS FED FROM ONLY ONE DIRECTION.
6. FLUSHING SHALL ONLY TAKE PLACE BETWEEN 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.
7. SAMPLING SHALL ONLY TAKE PLACE BETWEEN 7:30 AM AND 3:00 PM MONDAY THROUGH THURSDAY, EXCLUDING HOLIDAYS.
8. SAMPLE RESULTS SHALL TYPICALLY BE AVAILABLE WITHIN 25 HOURS OF SAMPLE COLLECTION.

APPROVAL IN WRITING FROM THE CITY ENGINEER OR HIS OR HER DESIGNEE MUST BE OBTAINED PRIOR TO DEPRESSURIZING ANY SECTION OF PUBLIC WATERMAIN THAT WILL IMPACT EXISTING WATER CUSTOMERS. IN THE EVENT THAT EXISTING CONDITIONS REQUIRE DEPRESSURIZING A SECTION OF A WATERMAIN THAT INCLUDES SERVICES TO WATER CUSTOMERS, A PRECAUTIONARY LOCALIZED BOIL ORDER (PLBO) MUST BE ISSUED TO ALL IMPACTED CUSTOMERS. THE CITY OF AURORA'S WATER AND SEWER MAINTENANCE DIVISION SHALL ASSIST WITH NOTIFYING IMPACTED CUSTOMERS OF THE PLBO.

DRAINTILE LOCATIONS AND ELEVATIONS TAKEN FROM HUDDLESTON MCBRIDE, DATED 06/01/2021

SEE LATEST PLAN SETS TITLED "LINCOLN CROSSING – REISSUE FOR CONSTRUCTION", "PULTE DWPH1–PEDESTRIAN BRIDGE PLANS", "DWPH1 – FINAL ENGINEERING PLANS" AND "US ROUTE 30 HIGHWAY IMPROVEMENTS" BY MANHARD CONSULTING FOR TIE–IN AND ADDITIONAL IMPROVEMENTS WITHIN THE U.S. ROUTE 30 AND EOLA ROAD R.O.W.

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Industrial • Recreational • Institutional • Healthcare
PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: PULTE HOME COMPANY, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIVARA, P.E.
(630) 772-2373

DRAWN BY | REVISIONS | DATE

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
EXISTING CONDITIONS AND DEMOLITION PLAN

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 100'

SHEET 4 OF 30
PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 11:44 Data Name: P:\Pulte\01_LINCOLN CROSSING SOUTH\Data\Xref\Final Drawings\Plan Set\03 - EXISTING CONDITIONS AND DEMOLITION PLAN.dwg Updated By: RPorcaro

LINCOLN CROSSING

DEL WEBB BLVD

DEL WEBB PHASE 3

FUTURE COMMERCIAL DEVELOPMENT

FUTURE DEL WEBB DEVELOPMENT

LINCOLN HIGHWAY (U.S. ROUTE 30)

EOLA ROAD

ROAD A

ROAD B

ROAD C

POND B
100 YEAR BFE - 690.90
DETENTION HWL = 689.90
NWL = 685.00

TEMPORARY FIRE ACCESS ROAD

TEMPORARY FLUSHING HYDRANT

FUTURE PHASE WM STUB

HMA ACCESS ROAD

EX. EASEMENT

EX. 24" RCP

NOTE:
1. "IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ANY/ALL PLUGS DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER".

N

0 50 100 200

SCALE: 1"=100'

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Mixed-Use • Industrial • Institutional • Recreational • Agricultural

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIESEN, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

OVERALL STORM AND WATER PLAN

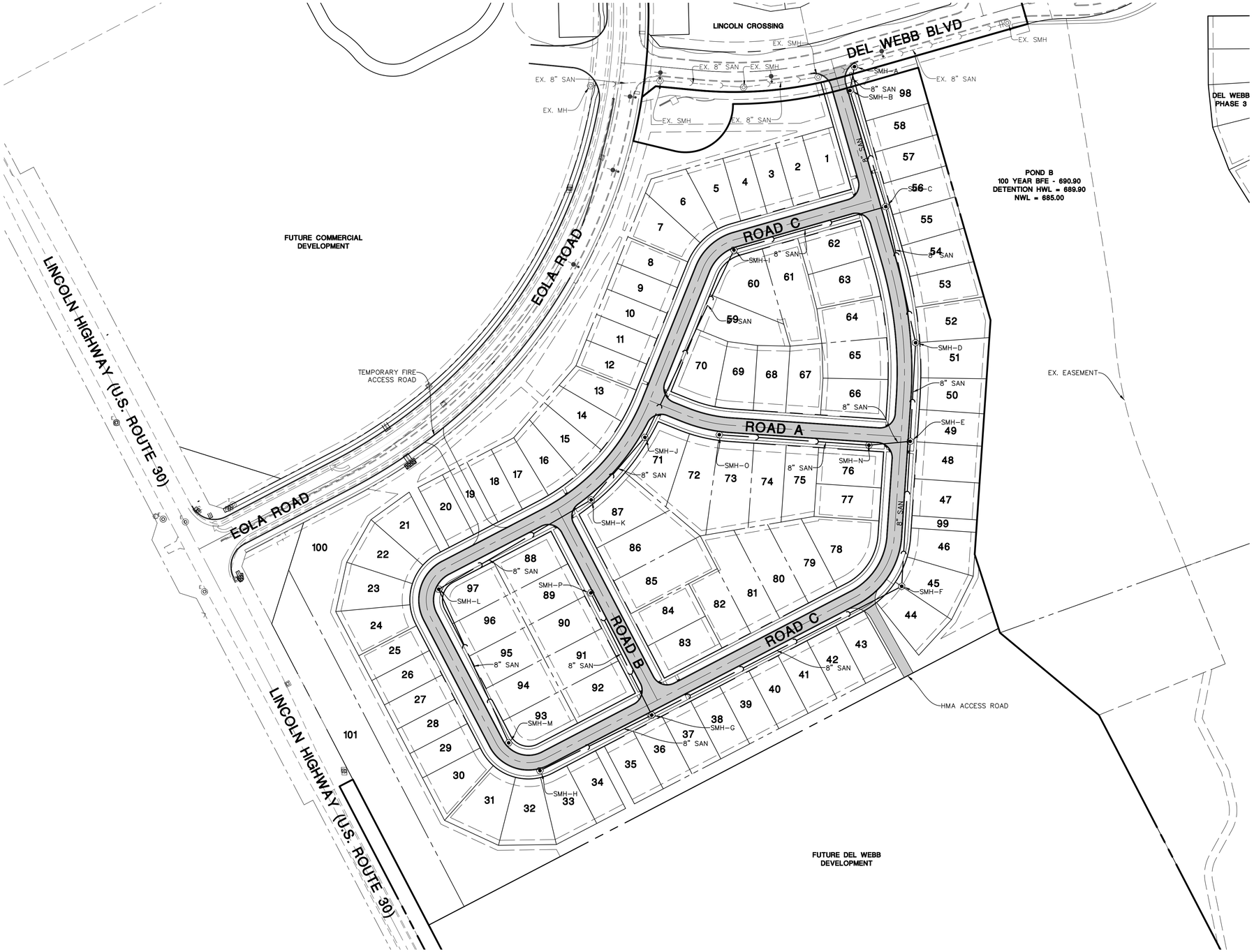
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

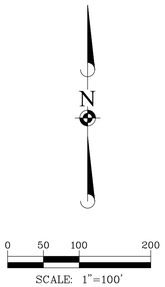
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 100'

SHEET
5 OF 30
PUL.AUIL01

©2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:31 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Eng\Final Drawings\Plan Sets\V04 - UTILITY PLAN, STORM AND WATER.dwg Updated By: RRenaldo




NOTE:
1. "IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ANY/ALL PLUGS DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER".

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial Real Estate Development • Landscape Architects • Construction Managers

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHARDS, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
OVERALL SANITARY PLAN

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 100'

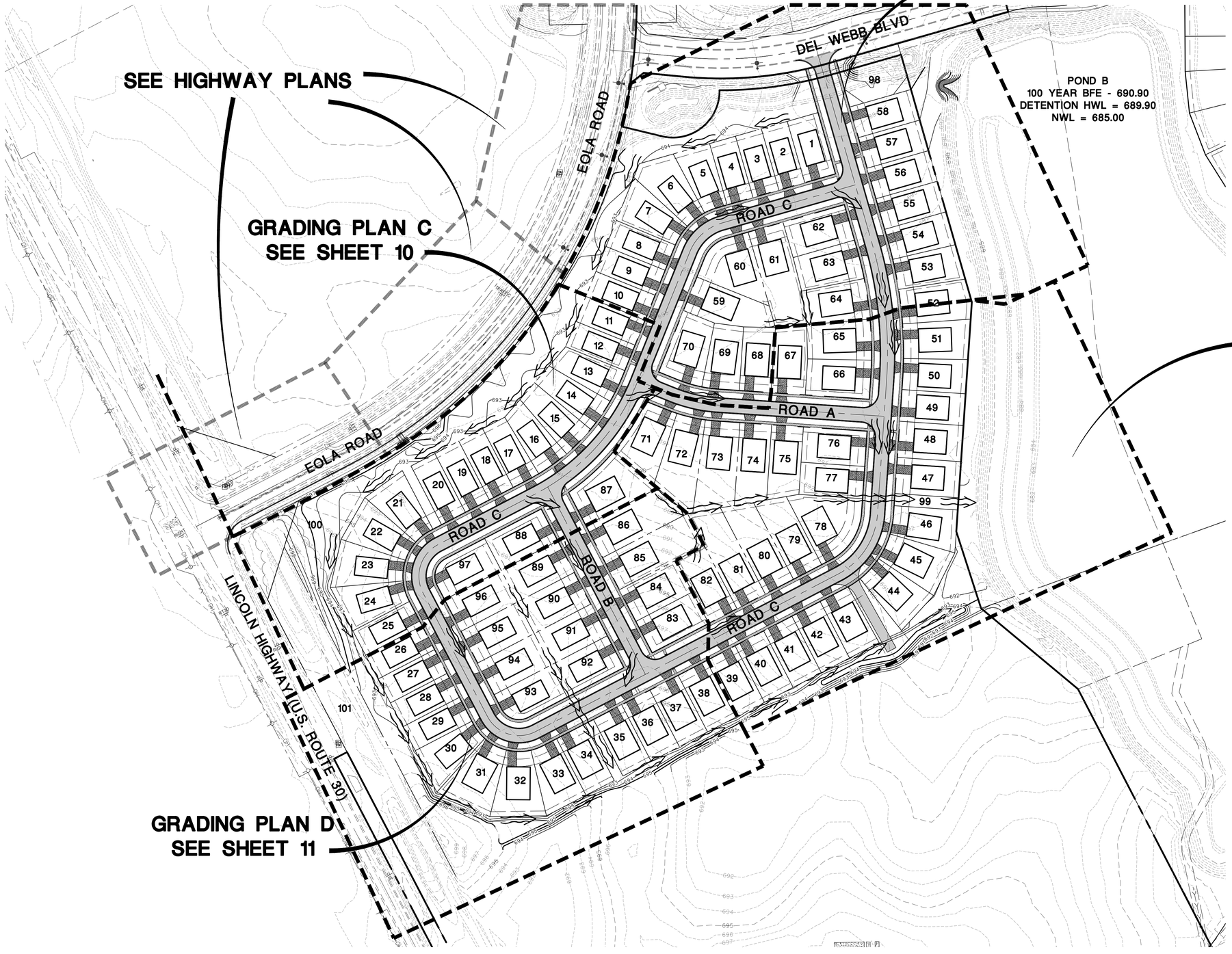
SHEET
6 OF 30
PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

©2023 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:53 Dwg. Name: P:\Projects\LINCOLN CROSSING SOUTH\Dwgs\Dwgs\Plan Roadway\Plan Set\04 - UTILITY PLAN SANITARY.dwg Updated By: RPorrovillo

SEE LATEST PLAN SETS TITLED "LINCOLN CROSSING – REISSUE FOR CONSTRUCTION", "PULTE DWPH1–PEDESTRIAN BRIDGE PLANS", "DWPH1 – FINAL ENGINEERING PLANS" AND "US ROUTE 30 HIGHWAY IMPROVEMENTS" BY MANHARD CONSULTING FOR TIE–IN AND ADDITIONAL IMPROVEMENTS WITHIN THE U.S. ROUTE 30 AND EOLA ROAD R.O.W.




06-01-16

GRADING NOTES:

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1–800–892–0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2020. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
10. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Engineers
Commercial • Residential • Mixed-Use Developments • Water & Wastewater Engineers

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: PULTE HOME COMPANY, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHARDT, P.E.
(630) 772-3973

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
OVERALL GRADING PLAN

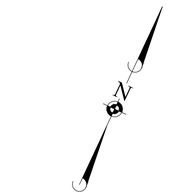
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 100'

SHEET
7 OF 30
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 – 11:38 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Final\Final Drawings\Plan Sets\OS - OVERALL GRADING PLAN.dwg Updated By: RRorrington




0 20 40 80

SCALE: 1"=40'

KEY MAP

06-01-16

GRADING NOTES:

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. 811 (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2020. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
10. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

06-01-16

GRADING PLAN LEGEND

| | |
|---|---|
| 764 | PROPOSED 1 FOOT CONTOURS |
| 792.8 G | PROPOSED SPOT ELEVATION |
| F.F. | PROPOSED FINISHED FLOOR ELEVATION |
| G/F | PROPOSED GRADE AT FOUNDATION |
| M/E | MEET EXISTING |
| | PROPOSED DITCH OR SWALE |
| | PROPOSED DIRECTION OF FLOW |
| | OVERFLOW RELIEF SWALE |
| RIDGE | PROPOSED RIDGE LINE |
| 0.5 | PROPOSED DEPTH OF PONDING |
| L | PROPOSED SWALE LOW POINT |
| S | PROPOSED SWALE SUMMIT |

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Landscape Architects • Structural Engineers • Traffic Engineers • Environmental Scientists

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: DEL WEBB HOMES, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073

| DATE | REVISIONS | DRAWN BY |
|---|---|---|
| | | |

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

GRADING PLAN - A

| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | IAP |
| DRAWN BY: | RWP |
| DATE: | 01/10/24 |
| SCALE: | 1" = 40' |

SHEET

8 OF 30

PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

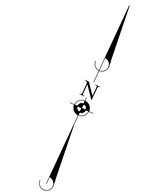
© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:40 Data Name: P:\Autodata\LINCOLN CROSSING SOUTH\Data\Land\Final Drawings\Plan Set\08 - GRADING PLAN.dwg Updated By: RPorterfield

MATCHLINE SEE SHEET 10

MATCHLINE SEE SHEET 8

MATCHLINE SEE SHEET 11



KEY MAP

GRADING NOTES:

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. 811 (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H: 1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2020. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
10. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

GRADING PLAN LEGEND

| | |
|---|---|
| 764 | PROPOSED 1 FOOT CONTOURS |
| 792.8 G | PROPOSED SPOT ELEVATION |
| F.F. | PROPOSED FINISHED FLOOR ELEVATION |
| G/F | PROPOSED GRADE AT FOUNDATION |
| M/E | MEET EXISTING |
| | PROPOSED DITCH OR SWALE |
| | PROPOSED DIRECTION OF FLOW |
| | OVERFLOW RELIEF SWALE |
| RIDGE | PROPOSED RIDGE LINE |
| 0.5 | PROPOSED DEPTH OF PONDING |
| L | PROPOSED SWALE LOW POINT |
| S | PROPOSED SWALE SUMMIT |

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Land Development Consultants • Landscape Architects • Construction Management

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIVERA, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
GRADING PLAN - B

| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | IAP |
| DRAWN BY: | RWP |
| DATE: | 01/10/24 |
| SCALE: | 1" = 40' |

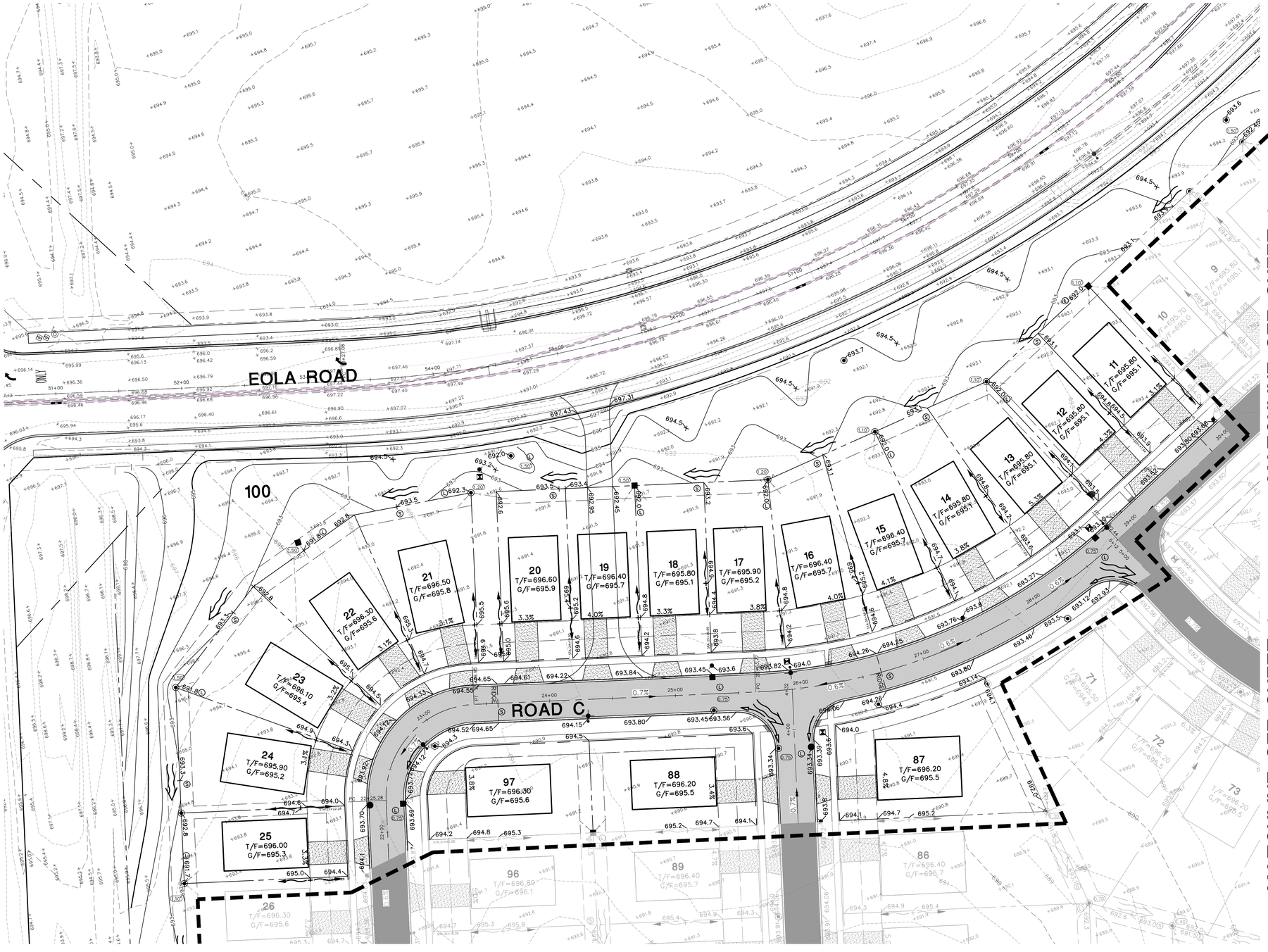
SHEET 9 OF 30

PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

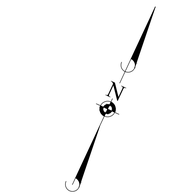
January 10, 2024 - 11:40 Dwg. Name: P:\Projects\LINCOLN CROSSING SOUTH\dwg\Civil\Final Drawings\Plan Set\06 - GRADING PLAN.dwg Updated By: RPenington




MATCHLINE SEE SHEET 11

MATCHLINE SEE SHEET 8

MATCHLINE SEE SHEET 9




0 20 40 80

SCALE: 1"=40'

KEY MAP

06-01-16

GRADING NOTES:

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. 811 (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2020. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
10. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

06-01-16

GRADING PLAN LEGEND

| | |
|---|---|
| 764 | PROPOSED 1 FOOT CONTOURS |
| 792.8 C | PROPOSED SPOT ELEVATION |
| F.F. | PROPOSED FINISHED FLOOR ELEVATION |
| G/F | PROPOSED GRADE AT FOUNDATION |
| M/E | MEET EXISTING |
| | PROPOSED DITCH OR SWALE |
| | PROPOSED DIRECTION OF FLOW |
| | OVERFLOW RELIEF SWALE |
| RIDGE | PROPOSED RIDGE LINE |
| 0.5' | PROPOSED DEPTH OF PONDING |
| L | PROPOSED SWALE LOW POINT |
| S | PROPOSED SWALE SUMMIT |

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Construction Management • Landscape Architects • Environmental Scientists

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIEMER, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

GRADING PLAN - C

| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | IAP |
| DRAWN BY: | RWP |
| DATE: | 01/10/24 |
| SCALE: | 1" = 40' |

SHEET

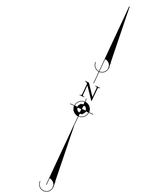
10 OF 30

PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 11:40 Data Name: P:\Autodraft_LINCOLN CROSSING SOUTH\Data\Civil\Final Drawings\Plan Set\06 - GRADING PLAN.dwg Updated By: RPerlstein




SCALE: 1"=40'

KEY MAP

06-01-16

GRADING NOTES:

1. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
2. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
3. MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. 811 (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
6. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
8. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
9. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHARD CONSULTING ON AUGUST 31, 2020. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
10. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.

06-01-16

GRADING PLAN LEGEND

| | |
|---|---|
| 764 | PROPOSED 1 FOOT CONTOURS |
| 792.8 G | PROPOSED SPOT ELEVATION |
| F.F. | PROPOSED FINISHED FLOOR ELEVATION |
| G/F | PROPOSED GRADE AT FOUNDATION |
| M/E | MEET EXISTING |
| | PROPOSED DITCH OR SWALE |
| | PROPOSED DIRECTION OF FLOW |
| | OVERFLOW RELIEF SWALE |
| RIDGE | PROPOSED RIDGE LINE |
| 0.5 | PROPOSED DEPTH OF PONDING |
| L | PROPOSED SWALE LOW POINT |
| S | PROPOSED SWALE SUMMIT |

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Construction Management • Landscape Architects • Environmental Scientists

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1600 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIEGER, P.E.
(630) 272-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
GRADING PLAN - D

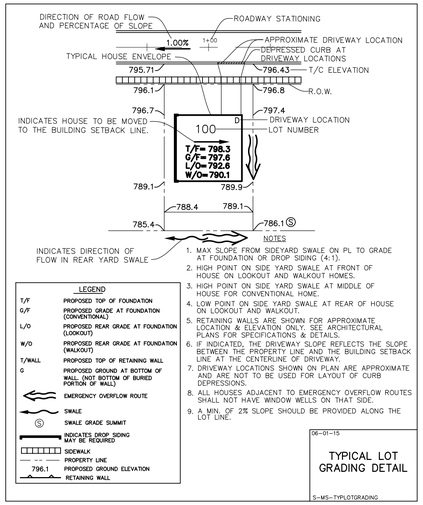
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: 1" = 40'

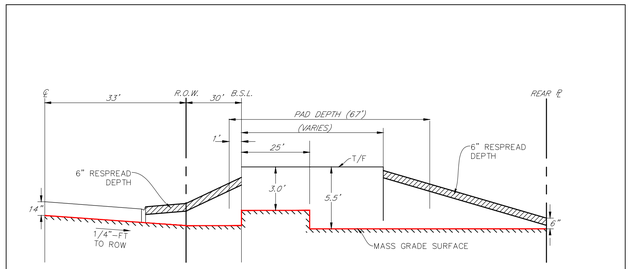
SHEET
11 OF 30
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 11:40 Data Name: P:\Aurora01_LINCOLN CROSSING SOUTH\Data\Xref\Plat Drawings\Plan Set\GR - GRADING PLAN.dwg Updated By: RPorrovecchio




THE PRAIRIES AND ESTATES – STANDARD FOUNDATION

01/10/2024 PUL.AUIL01

| DRAWN BY | REVISIONS | DATE |
|---|---|---|
| | | |

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Wastewater Engineers
Commercial • Residential • Mixed-Use Developments • Municipal • Transportation • Highways
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATTHEW RICHERT, P.E.
(630) 772-2073

PROPOSED DEVELOPMENT FOR:

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

GRADING DETAILS

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.

SHEET
12 OF 30
PUL.AUIL01

©2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 9, 2024 - 17:05 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Eng\Plat Drawings\Plan Set\07 - GRADING DETAILS.dwg Updated By: dHarrington

## SOIL PROTECTION CHART

| STABILIZATION CHART | JAN | FEB | MAR | APR | MAY |
|---|---|---|---|---|---|
| PERMANENT SEEDINGS | | | A | | |
| DORMANT SEEDINGS | B | → | | | |
| TEMPORARY SEEDINGS | | | C | | |
| TEMPORARY SEEDINGS | D | | | | |
| SODDING | | | E** | | |
| MULCHING | F | | | | |

KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC.
KENTUCKY BLUEGRASS 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 45 LBS./AC. 2 TONS STRAW MULCH PER ACRE

C – SPRING OATS
D – WHEAT OR CEREAL RYE
E – SOD (NURSERY GROWN KENTUCKY BLUEGRASS)
F – STRAW MULCH 2 TONS PER ACRE

NOTE: THIS CHART IS A GUIDE TO ASSISTS THE CONTRACTOR IN UNDERSTANDING OPTIONS FOR SOIL STABILIZATION. THE LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER THIS CHART. ANY CONFLICT SHALL BE DISCUSSED WITH THE LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

## SITE DATA

| | |
|---|---|
| PROPERTY AREA | 34.4 ACRES |
| LIMITS OF GRADING | 33.9 ACRES |
| SILT FENCE | 2499 LF |
| DESIGN STORM | 100 YEAR–24 HOURS |

N

0 50 100 200
SCALE: 1"=100'

06-01-16

## LEGEND

- TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)
- TEMPORARY SILT DIKE
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN DS 75) (SEEDING PER LANDSCAPE PLAN)
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
- TEMPORARY STORM STRUCTURE PROTECTION
- TEMPORARY CULVERT INLET PROTECTION
- TEMPORARY PERFORATED RISER
- PAVEMENT DRAINAGE FLOW
- SWALE DRAINAGE FLOW
- LIMITS OF DISTURBANCE/CONSTRUCTION

06-01-16

## SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
2. THE KANE–DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE–CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. AN UP–TO–DATE COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. PRIOR TO COMMENCING LAND–DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF–SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
6. MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
7. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
8. INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING. ONSITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILLING ACTIVITIES ON THE SITE.
9. STORM WATERS FALLING ON THE ENTIRE SITE SHALL BE DIVERTED INTO THE DETENTION BASIN, PRIOR TO BEGINNING MASS EXCAVATION, THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENTATION TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY AND CONVEY THEM TO THE DETENTION BASIN.
10. IF STORMWATER DETENTION IS NOT REQUIRED THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, SEDIMENT TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY.
11. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
12. TEMPORARY SEED MIXTURE SHALL BE APPLIED AT THE AMOUNT SPECIFIED IN THE LANDSCAPE PLAN.
13. INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.
14. STABILIZATION OF TOPSOIL STOCKPILES SHALL BE INITIATED IMMEDIATLEY UPON COMPLETION UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS. STABILIZATION OF STOCKPILES MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPE SIDE OF THE PILES.
15. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FILED TILES OR STORMWATER STRUCTURES IS PROHIBITED.
16. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
17. TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
18. ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
19. OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION BASIN PRIOR TO LEAVING THE SITE.
20. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
21. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.
22. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUBCONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WILL ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
23. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

"THESE EROSION CONTROL PLANS ARE A PORTION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) TOTAL REQUIREMENTS FOR A COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE GENERAL NPDES PERMIT NO. ILR10. CLIENT AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND COMPILATION OF THE COMPLETE SWPPP."

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

CONTRACTOR'S SIGNATURE

DRAWN BY | REVISIONS | DATE


Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Industrial • Recreational • Institutional • Highway


PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073

# LINCOLN CROSSING SOUTH
## CITY OF AURORA, ILLINOIS
## SOIL EROSION AND SEDIMENT CONTROL PLAN

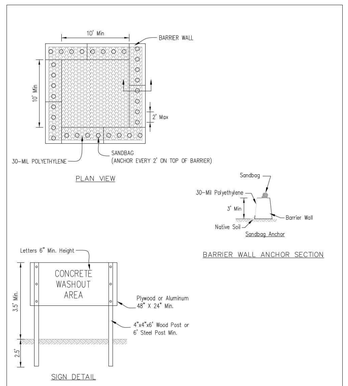
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | JAP |
| DRAWN BY: | RWP |
| DATE: | 01/10/24 |
| SCALE: | 1" = 100' |

SHEET 13 OF 30
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. http://www.manhard.com

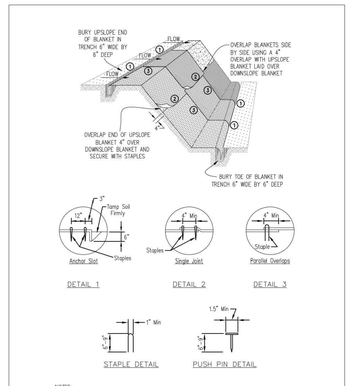
January 10, 2024 - 11:49 Data Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Xref\Final Drawings\Plan Set\08-03 - SESC PLAN AND DETAILS.dwg Updated By: RPenamator




NOTES:

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened 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.

| | | | |
|---|---|---|---|
| 1" = 1' | | | |
| DATE | REVISIONS | DRAWN BY | |
| | TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL | Designed | Date |
| | | Drawn K. JOHNSON | SCALE: |
| | | Checked | |
| | | Approved | |

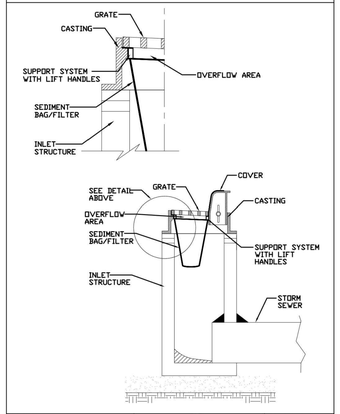



NOTES:

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.

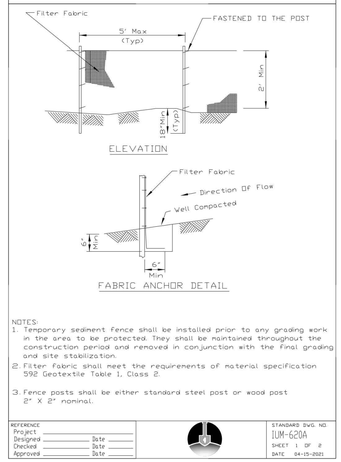
| | | | |
|---|---|---|---|
| 1" = 1' | | | |
| DATE | REVISIONS | DRAWN BY | |
| | EROSION CONTROL BLANKET INSTALLATION DETAILS | Designed | Date |
| | | Drawn K. JOHNSON | SCALE: |
| | | Checked | |
| | | Approved | |

## INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION




| | | | |
|---|---|---|---|
| REFERENCE | | STANDARD DWG. NO. | |
| Project | | IUM-561D | |
| Designed ____ Date ____ | | SHEET 1 OF 1 | |
| Checked ____ Date ____ | | DATE 01-11-11 | |
| Approved ____ Date ____ | | | |

## SILT FENCE PLAN

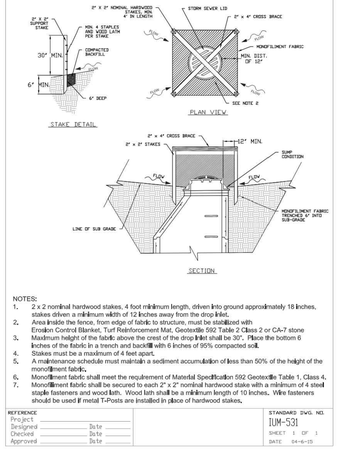



NOTES:

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

| | | | |
|---|---|---|---|
| REFERENCE | | STANDARD DWG. NO. | |
| Project | | IUM-620A | |
| Designed ____ Date ____ | | SHEET 1 OF 1 | |
| Checked ____ Date ____ | | DATE 04-15-2021 | |
| Approved ____ Date ____ | | | |

## INLET PROTECTION -MONOFILAMENT FABRIC BARRIER FENCE

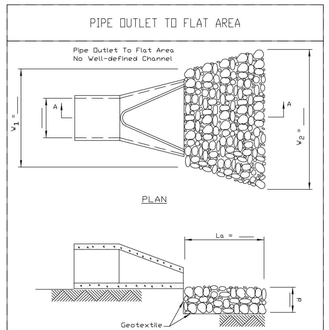



NOTES:

1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone
3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
4. Stakes must be a maximum of 4 feet apart.
5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilment fabric.
6. Monofilment fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
7. Monofilment fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.

| | | | |
|---|---|---|---|
| REFERENCE | | STANDARD DWG. NO. | |
| Project | | IUM-531 | |
| Designed ____ Date ____ | | SHEET 1 OF 1 | |
| Checked ____ Date ____ | | DATE 04-6-15 | |
| Approved ____ Date ____ | | | |

## PIPE OUTLET TO FLAT AREA

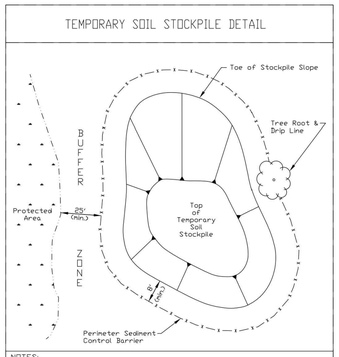



NOTES:

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

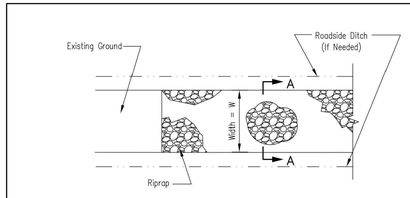
## TEMPORARY SOIL STOCKPILE DETAIL




NOTES:

1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

| | | | |
|---|---|---|---|
| REFERENCE | | STANDARD DWG. NO. | |
| Project | | IUM-627 | |
| Designed ____ Date ____ | | SHEET 1 OF 1 | |
| Checked ____ Date ____ | | DATE JANUARY 2017 | |
| Approved ____ Date ____ | | | |




NOTES:

1. Rock shall meet one of the following IDOT coarse aggregate gradations, 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.
2. See plans for construction road location, D and W dimensions.
3. Minimum width is 14 feet for one-way traffic and 20 feet for two-way traffic. Two-way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
4. Roadway shall follow the contour of the natural terrain to the extent possible.
5. Geotextile (non-woven, needle punched) min. criteria:
   Grab Tensile strength (lb) ASTM D 4632_____202
   Elongation at failure (%) ASTM D 4632_____≥50
   Trapezoidal tear strength (lb) ASTM D 4533_____79
   Puncture strength (lb) ASTM D 6241_____433
   Ultraviolet light (% retained strength) ASTM 4355_____min 50
   Apparent opening size (AOS) ASTM D 4751_____
   max 0.22 mm (US sieve size 70)
   Permittivity $sec^{-1}$/ ASTM D 4491_____min 0.70
6. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.

| | | | |
|---|---|---|---|
| Date | — | — | 2021 |
| Designed | — | Length | — |
| Drawn | — | Width | — |
| Checked | — | Thickness | — |
| Approved | — | Material | — |

CONSTRUCTION ROAD STABILIZATION

USDA United States Department of Agriculture Natural Resources Conservation Service

File No. IL-ENG-58
Drawing No.
Page 1 of 1
Sheet of

06-01-16

**CONSTRUCTION SEQUENCE:**

1. INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
2. PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
3. CONSTRUCT TEMPORARY SEDIMENT BASINS.
4. STRIP EXISTING TOPSOIL FROM PROPOSED LIMITS OF DISTURBANCE AND STOCKPILE WHERE SHOWN ON PLANS.
5. PROVIDE SILT FENCE AROUND THE BASE OF THE STOCKPILES.
6. CONSTRUCT STORMWATER MANAGEMENT (DETENTION) FACILITIES TO SUB-GRADE AND INSTALL OUTLET PIPES.
7. COMPLETE TOPSOIL PLACEMENT AND PERMANENT SEEDING AND SODDING OF STORMWATER MANAGEMENT FACILITIES.
8. CUT AND FILL SITE TO PLAN SUB-GRADE.
9. CONSTRUCT UNDERGROUND IMPROVEMENTS, i.e. SANITARY SEWER WATERMAIN AND STORM SEWER**, ETC.
10. CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN.
11. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
12. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

** INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.

SOIL PROTECTION CHART

| STABILIZATION CHART | JAN | FEB | MAR | APR | MAY | |
|---|---|---|---|---|---|---|
| PERMANENT SEEDINGS | | | A | | | |
| DORMANT SEEDINGS | B | | ← | | | |
| TEMPORARY SEEDINGS | | | C | | | |
| TEMPORARY SEEDINGS | D | | | | | |
| SODDING | | | E** | | | |
| MULCHING | F | | | | | |

KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC.

KENTUCKY BLUEGRASS 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 45 LBS./AC., 2 TONS STRAW MULCH PER ACRE

C – SPRING OATS
D – WHEAT OR CEREAL RYE
E – SOD (NURSERY GROWN KENTUCKY BLUEGRASS)
F – STRAW MULCH 2 TONS PER ACRE

NOTE: THIS CHART IS A GUIDE TO ASSISTS THE CONTRACTOR IN UNDERSTANDING OPTIONS FOR SOIL STABILIZATION. THE LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER THIS CHART. ANY CONFLICT SHALL BE DISCUSSED WITH THE LANDSCAPE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.

SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS, THE VILLAGE DETAILS SHALL TAKE PRECEDENCE.

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Wastewater Engineers
Commercial • Industrial • Residential • Land Development • Water Management

1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATTHEW R. KEITT, P.E.
(630) 772-2073

PROPOSED DEVELOPMENT FOR:

OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATTHEW R. KEITT, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH

CITY OF AURORA, ILLINOIS

SOIL EROSION AND SEDIMENT CONTROL PLAN DETAILS

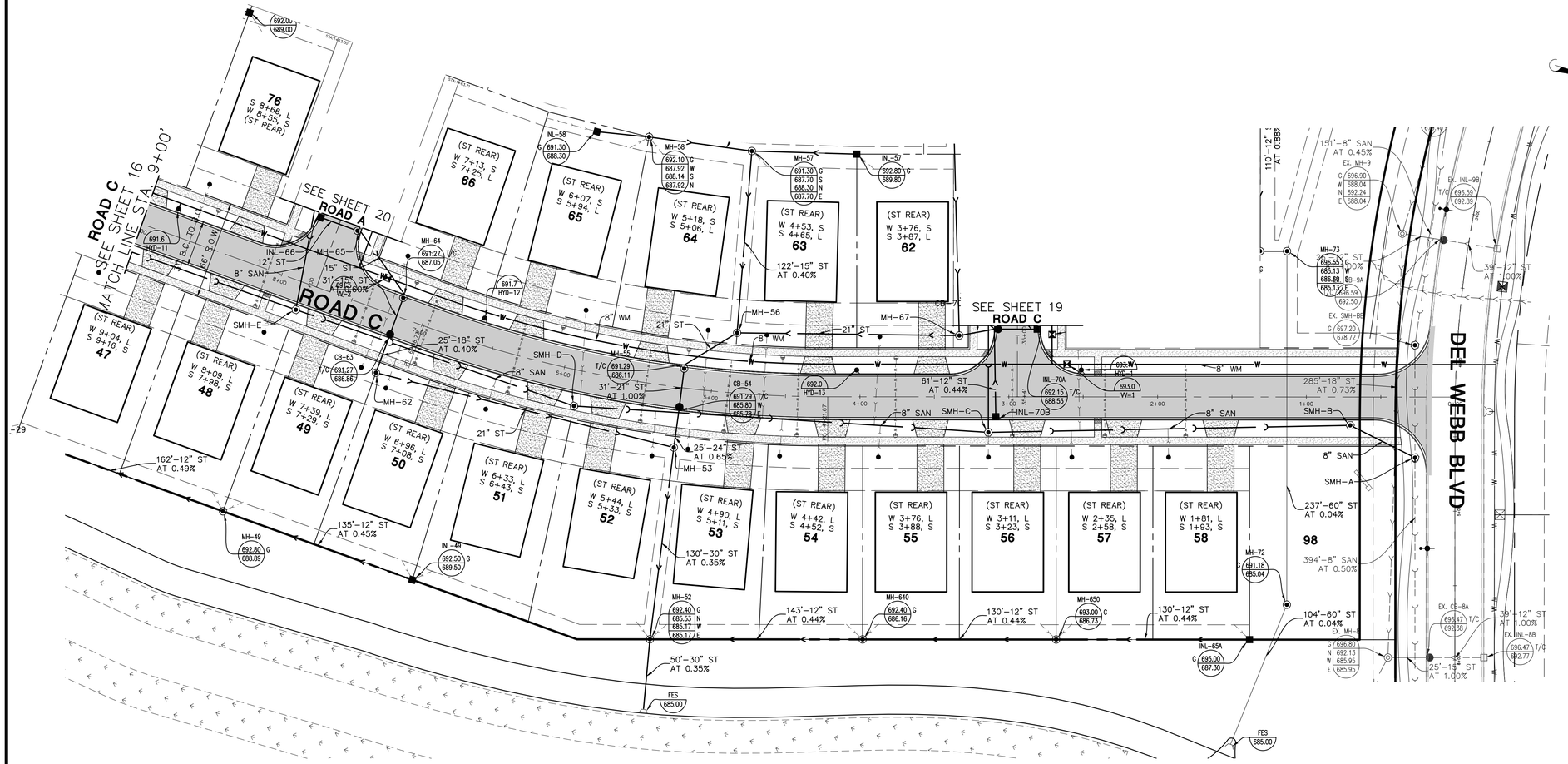
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

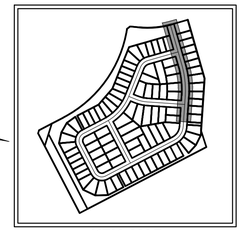
| | |
|---|---|
| PROJ. MGR.: | JMI |
| PROJ. ASSOC.: | IAP |
| DRAWN BY: | RWP |
| DATE: | 01/10/24 |
| SCALE: | N.T.S. |

SHEET 14 OF 30

PUL.AUIL01

Monday, January 10, 2024 - 11:49 Data Name: P:\Aurora\01_LINCOLN_CROSSING_SOUTH\data\Xref\Final Drawings\Plan Set\108-09 - SESCP PLAN AND DETAILS.dwg Updated By: RPearson



KEY MAP

0 20 40 80

SCALE: 1"=40'
VERTICAL SCALE: 1"=5'

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2–#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 23.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'–7" IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH–A1 AND SMH–A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX–SMH–A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

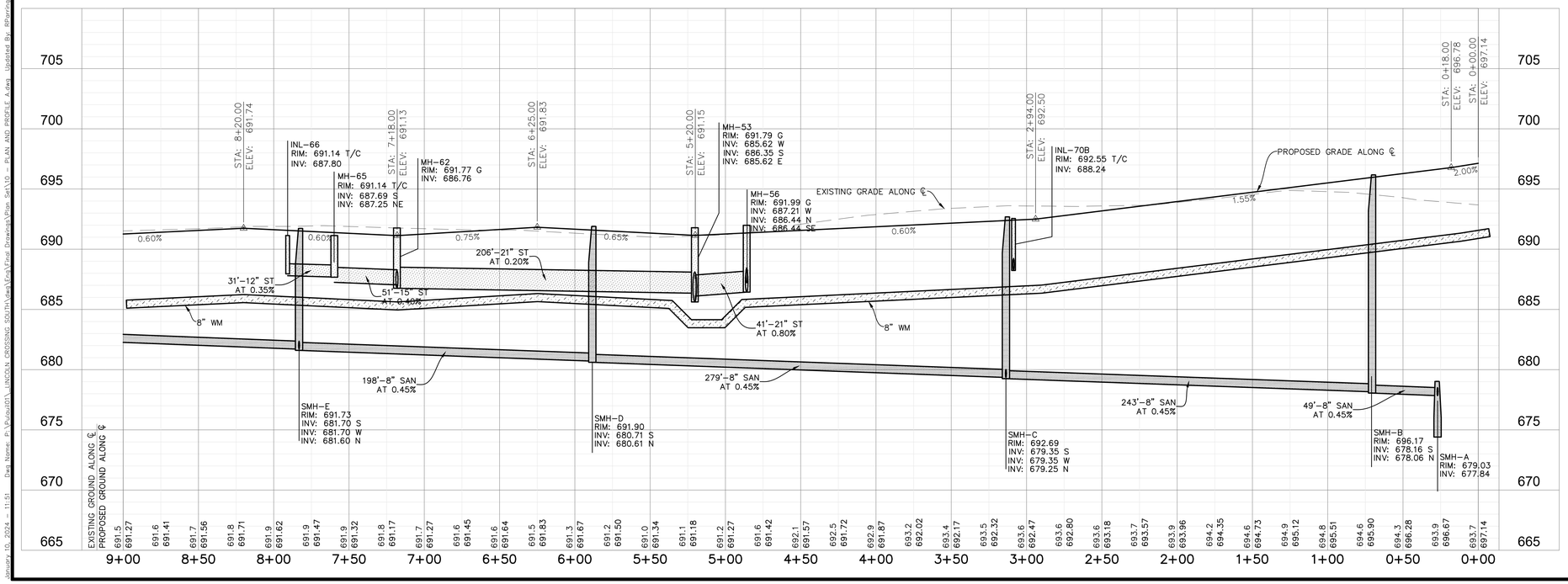
LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA–6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 6" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1–1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 4" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE





Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Visioneers • Planners
Corporate Office: 1500 Manhard Drive, Naperville, IL 60563 | Phone: 630.305.1500
1500 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073


OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1500 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
PROPOSED DEVELOPMENT FOR:

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
ROAD C PLAN AND PROFILE - STA. 0+00 TO STA. 9+00

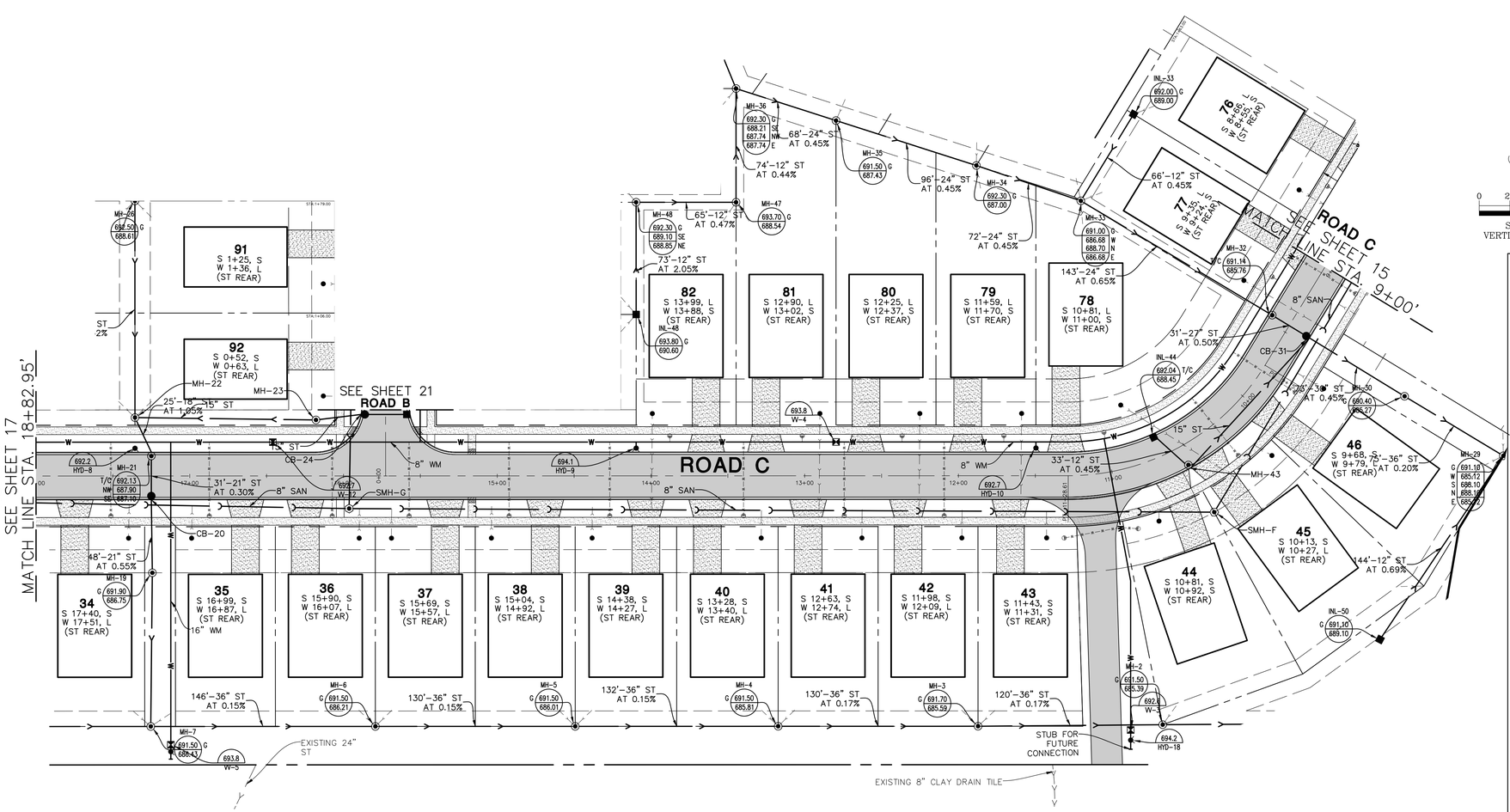
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H:1"=40' V:1"=5'

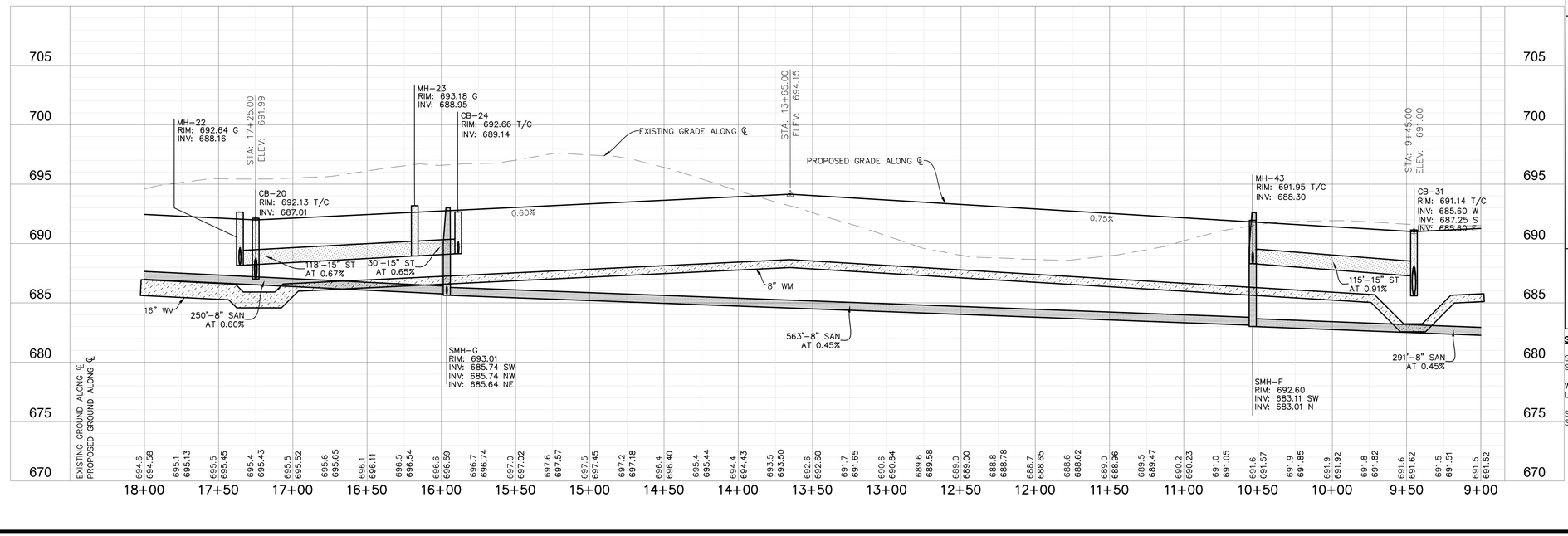
SHEET
15 OF 30
PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

© CHRIS MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 – 11:51 Dwg Name: P:\Projects\1_LINCOLN CROSSING SOUTH\data\Eng\Final Drawings\Plan Set\VD – PLAN AND PROFILE A.dwg Updated By: RHorrington




**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2–#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 23.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'–7' IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH–A1 AND SMH–A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX–SMH–A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

**PAVEMENT LEGEND**

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA–6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 6" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1–1/2YPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 4" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

© 2024 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Professional Design Firm 184.001439 Expires 4/30/2025

PREPARED FOR: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIX, P.E.
(630) 772-2073

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300

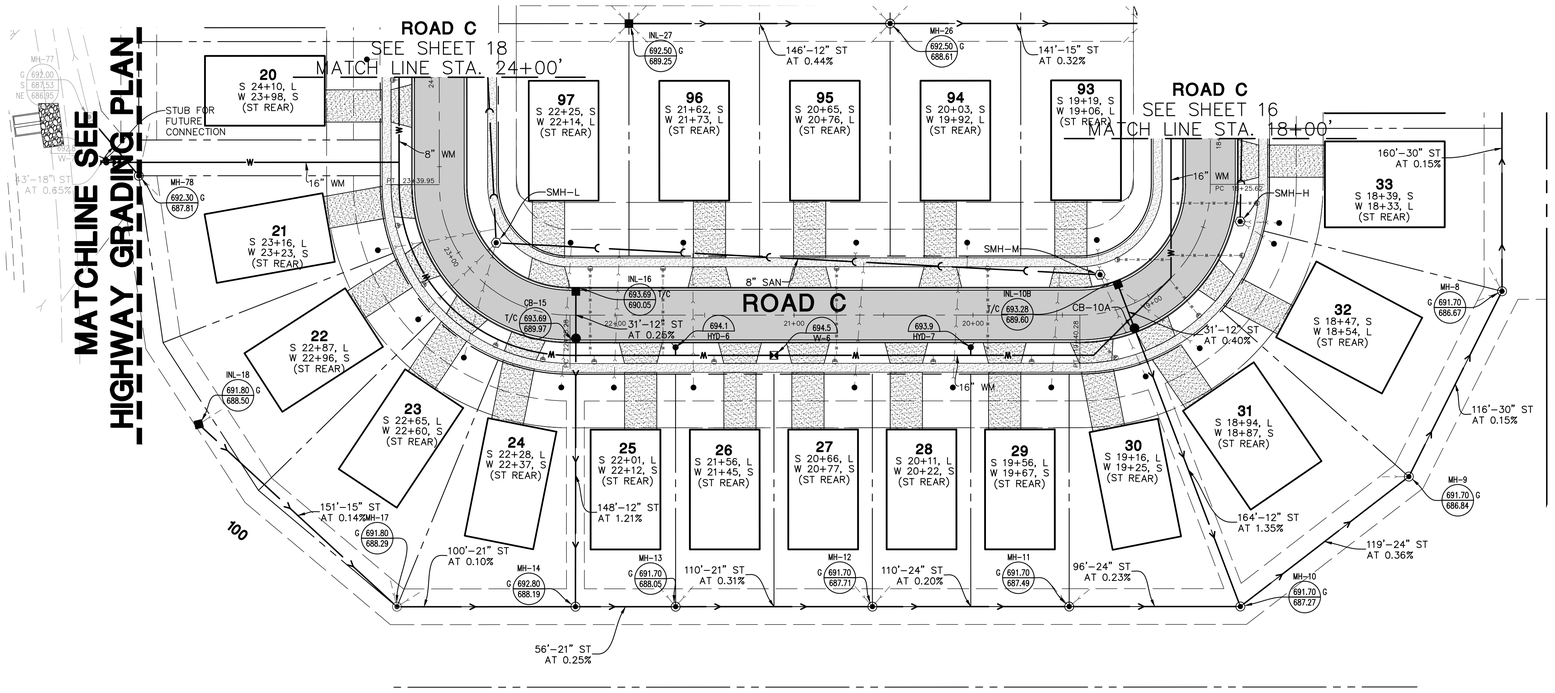
# LINCOLN CROSSING SOUTH
## CITY OF AURORA, ILLINOIS
## ROAD C PLAN AND PROFILE - STA. 9+00 TO STA. 18+00

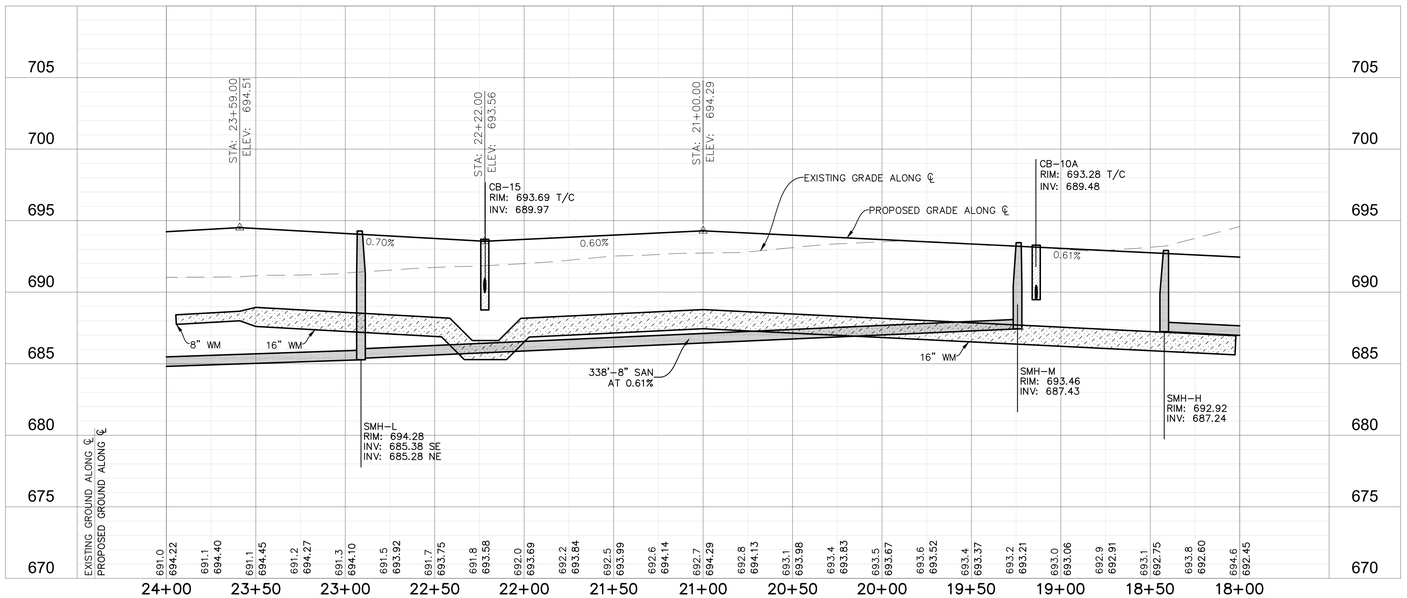
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

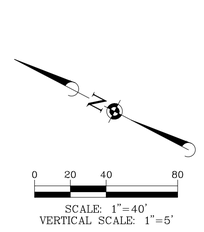
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H: 1"=40' V: 1"=5'

SHEET
16 OF 30
PUL.AUIL01

January 10, 2024 - 11:51 Dwg Name: P:\Projects\1_LINCOLN CROSSING SOUTH\Data\Eng\Final Drawings\Plan Set\10 - PLAN AND PROFILE A.dwg Updated By: RPorunton



KEY MAP

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2–#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 23.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'–7' IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH–A1 AND SMH–A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX–SMH–A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA–6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 4" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1–1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 6" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

DRAWN BY
REVISIONS
DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Visioneers • Planners
Corporate Headquarters: 1500 Manhard Drive, Naperville, IL 60563 (630) 305-1500

PREPARED FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIVA, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
ROAD C PLAN AND PROFILE - STA. 18+00 TO STA. 24+00

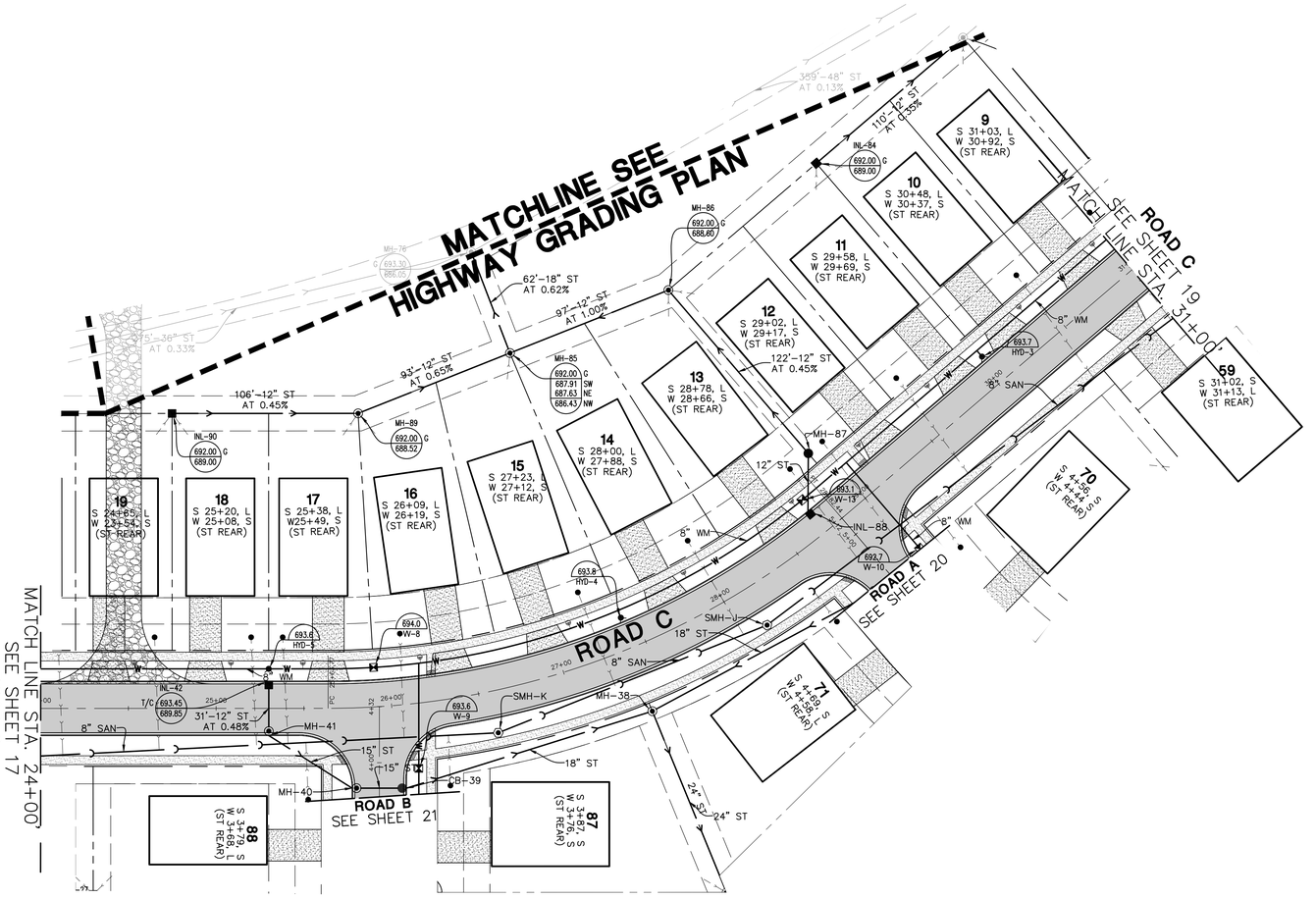
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H: 1"=40' V: 1"=5'

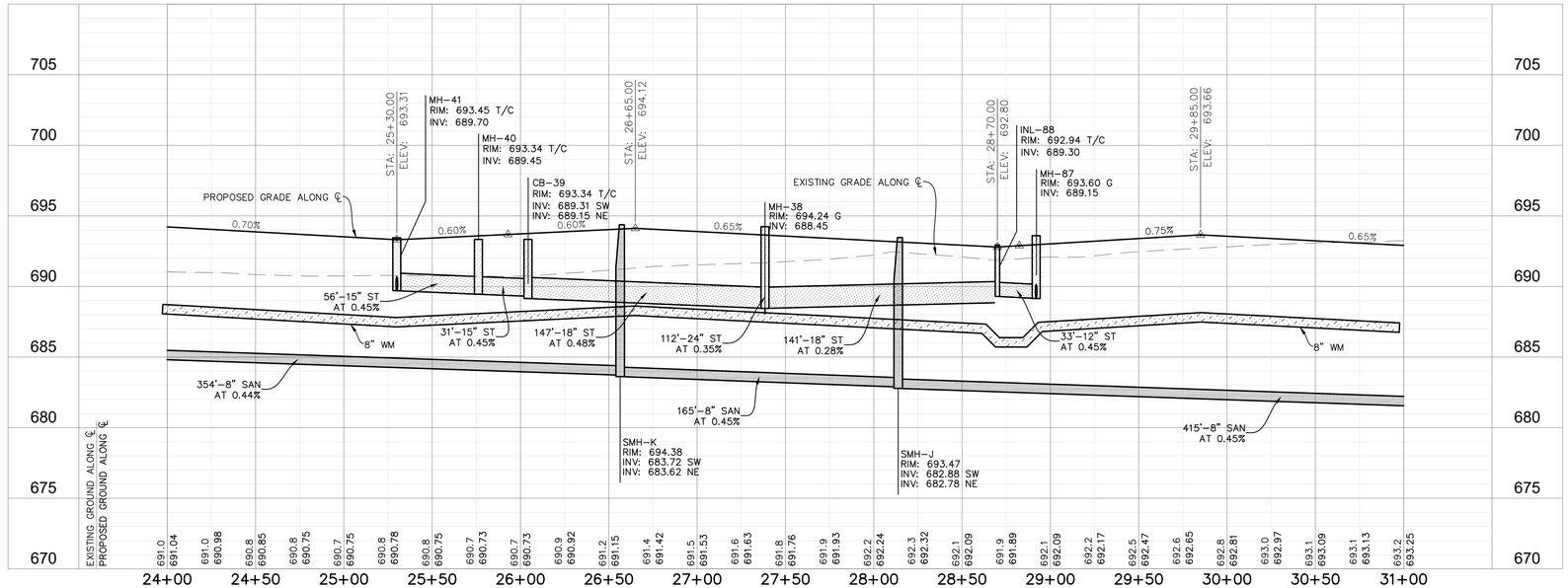
SHEET
17 OF 30
PUL.AUIL01

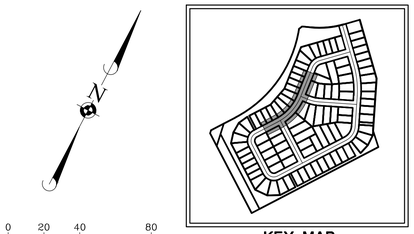
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

©2023 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:51 Dwg Name: P:\Pubs\01\LINCOLN CROSSING SOUTH\Civil\Engr\Plan Drawings\Plan Set\10 - PLAN AND PROFILE A.dwg Updated By: RPervaiton




SCALE: 1"=40'
VERTICAL SCALE: 1"=5'



KEY MAP

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2-#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 23.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'-7" IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH-A1 AND SMH-A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX-SMH-A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA-6 (CRUSHED STONE)

TEMPORARY FIRE ACCESS ROAD (CITY OF AURORA SPECIFICATIONS)
8" COMPACTED CA-6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 6" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1-1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 4" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Structural • Water Resource Engineers • Land Surveyors • Landscape Architects
Construction Management • Environmental Sciences • Transportation Engineers
www.manhard.com

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
ROAD C PLAN AND PROFILE - STA. 24+00 TO STA. 31+00

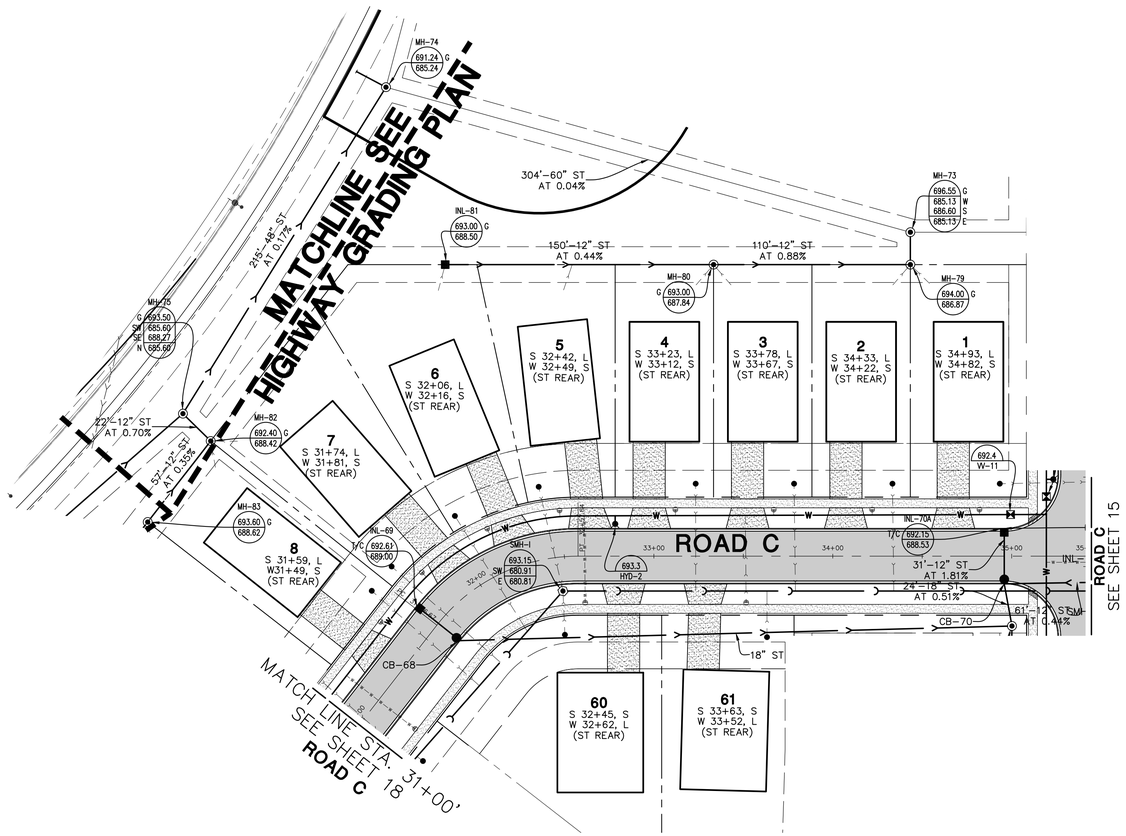
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

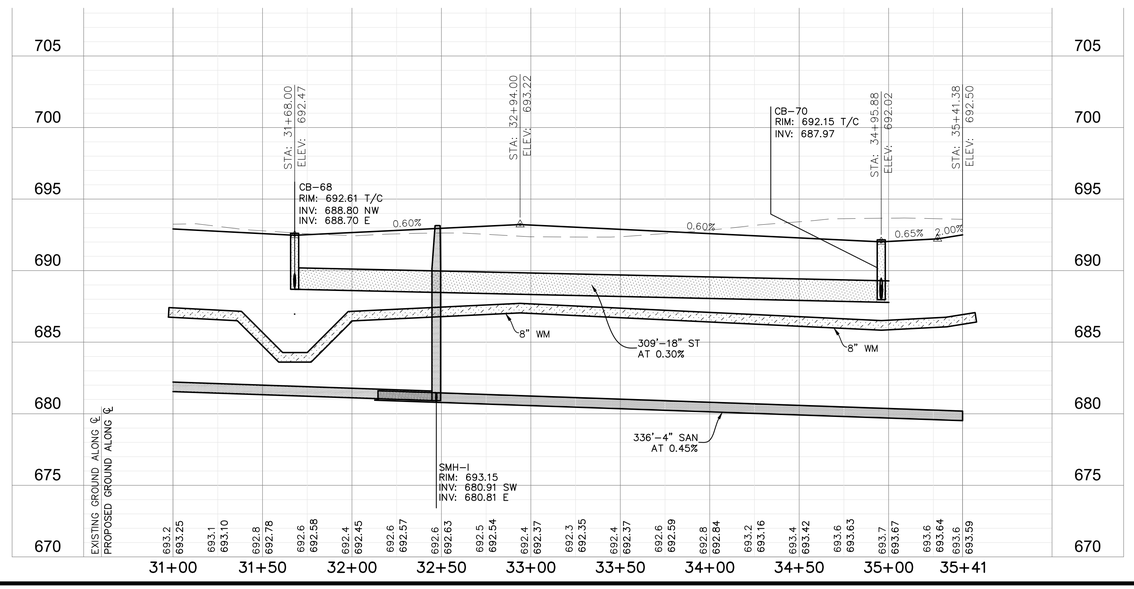
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H: 1"=40' V: 1"=5'

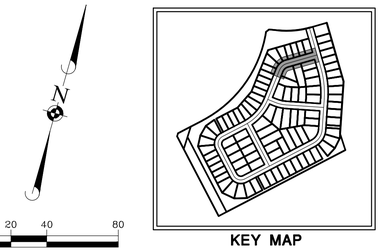
SHEET
18 OF 30
PUL.AUIL01

© 2024 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:51 Drawing Name: P:\Projects\1_LINCOLN CROSSING SOUTH\Data\Xrefs\Final Drawings\Plan_Set\1D - PLAN AND PROFILE A.dwg Updated By: RPorrovallo




SCALE: 1"=40'
VERTICAL SCALE: 1"=5'



KEY MAP

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2–#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 23.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'–7' IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH–A1 AND SMH–A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX–SMH–A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA–6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 6" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1–1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 4" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Industrial • Institutional • Recreational • Highway

PREPARED FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIEGER, P.E.
(630) 772-2373

PROPOSED DEVELOPMENT FOR:
LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS

ROAD C PLAN AND PROFILE - STA. 31+00 TO STA. 35+41

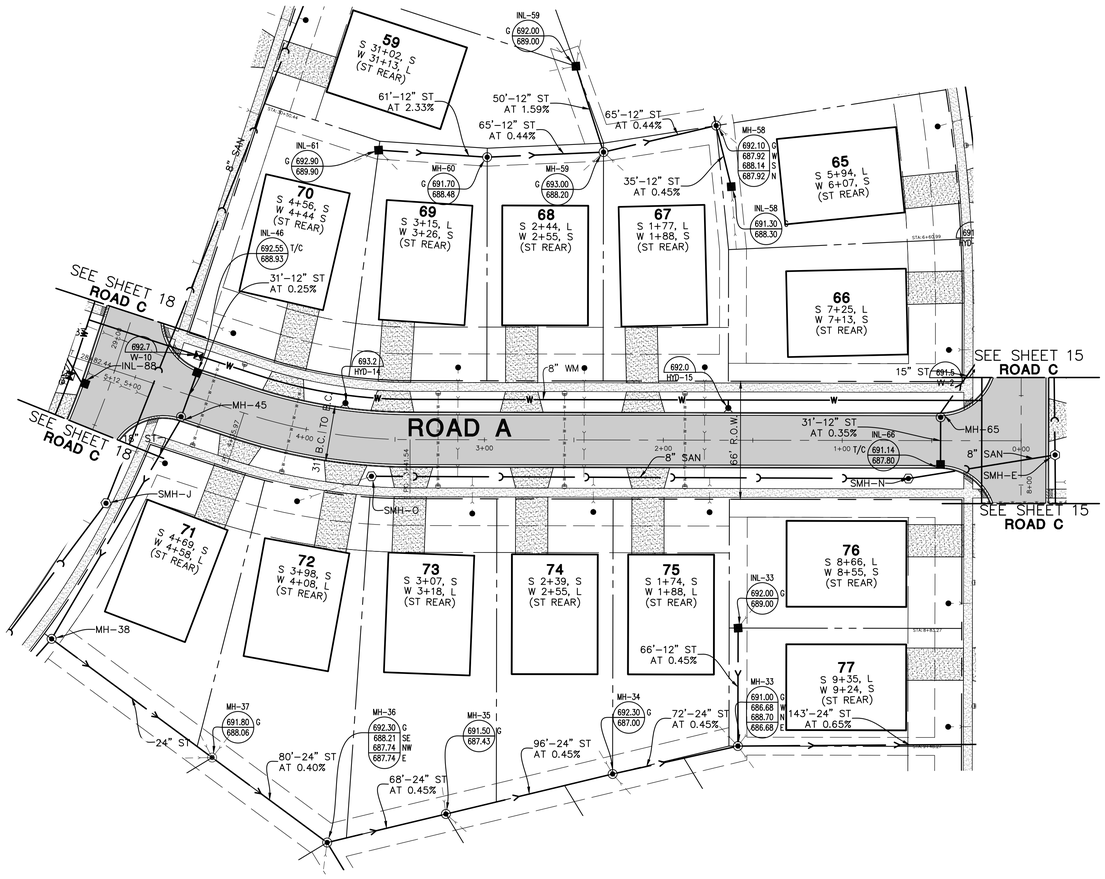
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

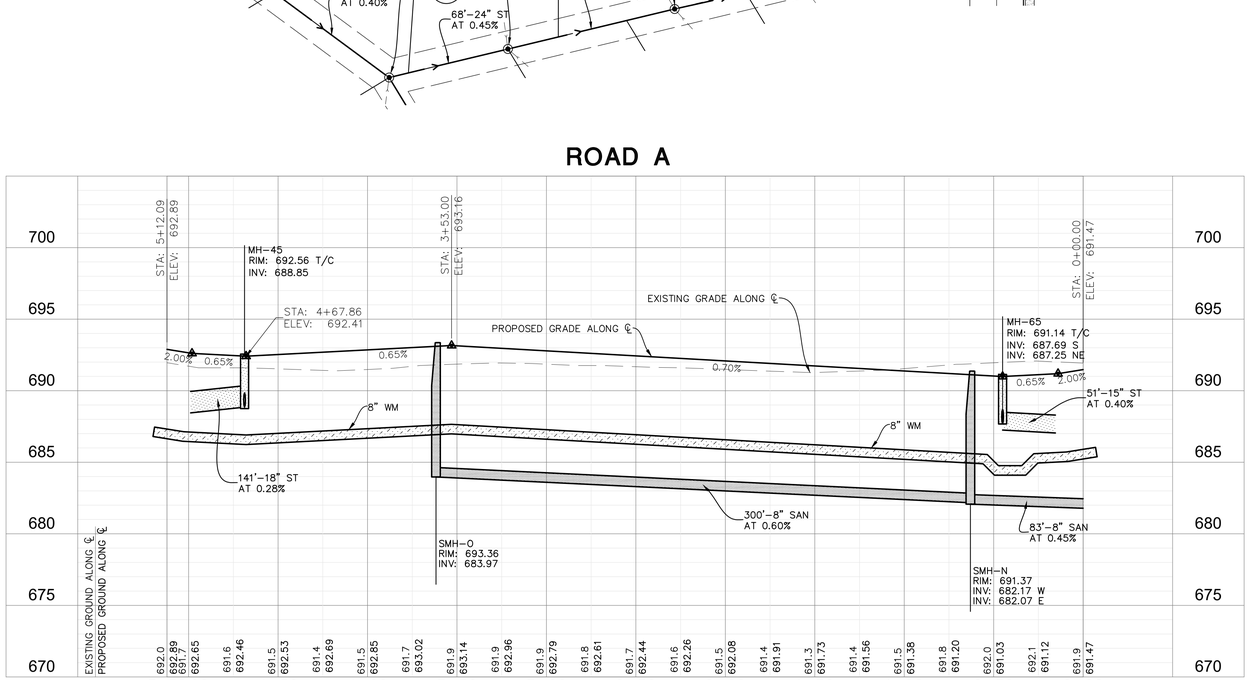
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H: 1"=40' V: 1"=5'

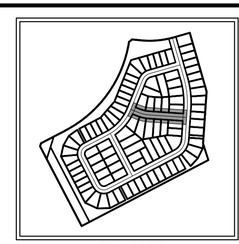
SHEET
19 OF 30
PUL.AUIL01

©2024 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 11:51 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Final\Plan Drawings\Plan Sht\10 – PLAN AND PROFILE A.dwg Updated By: RParrington




SCALE: 1"=40'
VERTICAL SCALE: 1"=5'



KEY MAP

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2–#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 28.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'–7" IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH–A1 AND SMH–A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX–SMH–A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA–6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 4" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1–1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 6" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

DRAWN BY
REVISIONS
DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Commercial • Residential • Industrial • Land Development • Construction Services

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
ROAD A PLAN AND PROFILE - STA. 0+00 TO STA. 5+12

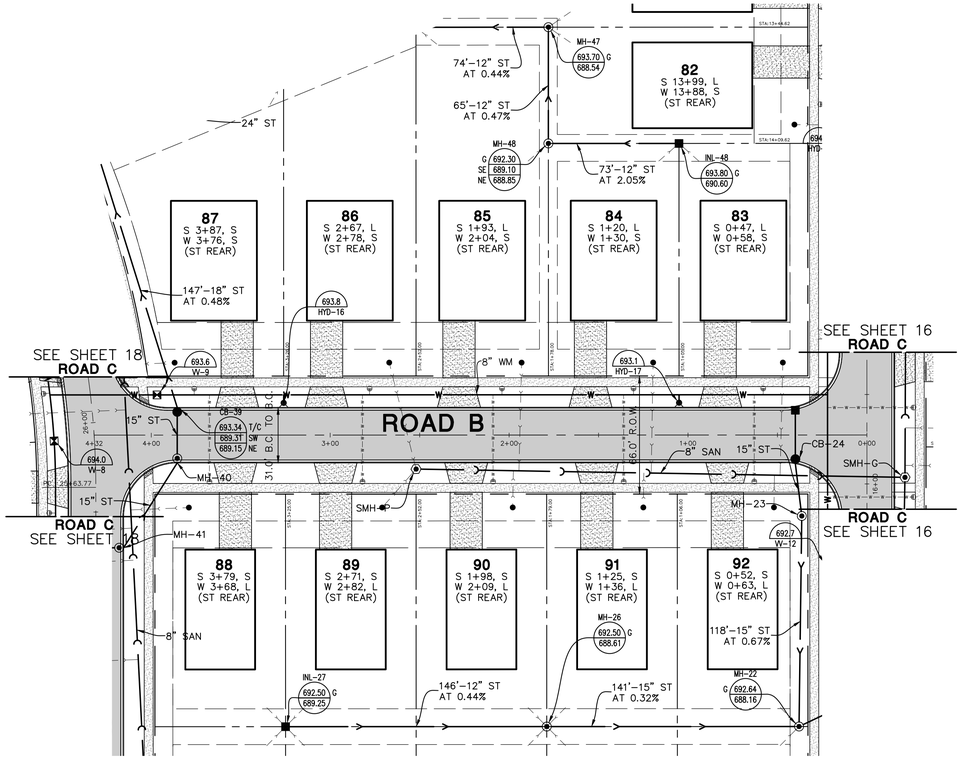
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H:1"=40' V:1"=5'

SHEET
20 OF 30
PUL.AUIL01

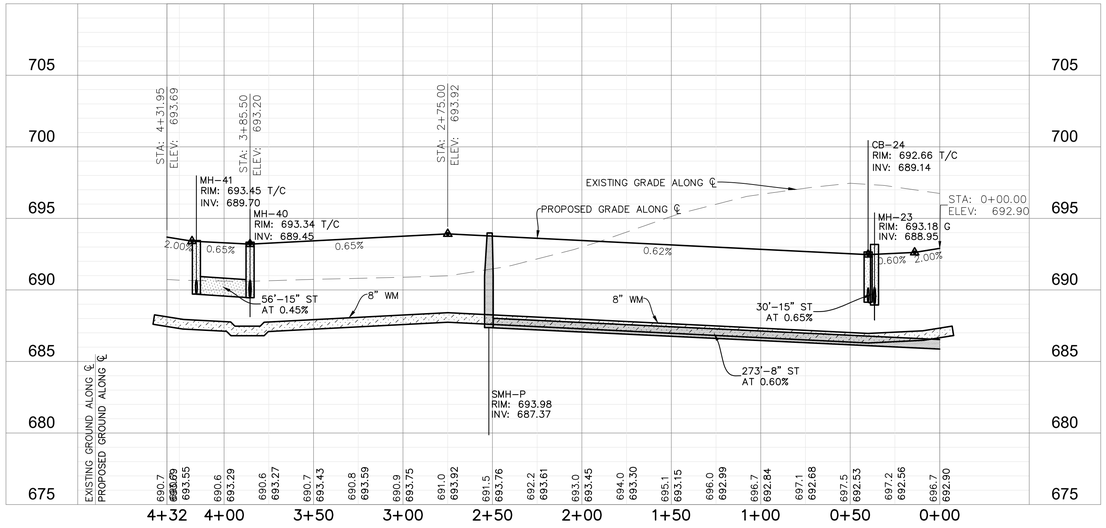
© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

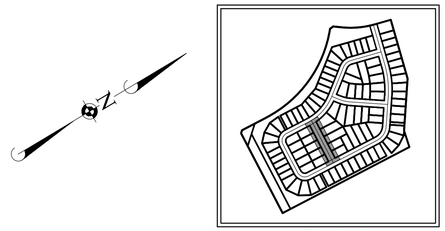
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 12:01 Data Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Final\Final Drawings\Plan Set\V1 - PLAN AND PROFILE B.dwg Updated By: RRorrington




## ROAD B




KEY MAP

0 20 40 80

SCALE: 1"=40'
VERTICAL SCALE: 1"=5'

**NOTES:**

1. ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
3. DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
4. TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
5. TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2-#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
6. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
7. CURB RETURN RADII SHALL BE 30' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
8. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)
9. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS," OR BY THE PIPE MANUFACTURER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
10. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE. REFER TO MATERIAL STANDARDS FOR MORE DETAIL ON SHEET 28.
11. "D" INDICATES APPROXIMATE DRIVEWAY LOCATION ONLY AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
12. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
13. ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
14. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
15. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
16. ALL ROADWAY SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
17. ALL ROADWAY IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.
19. ANY SANITARY SEWER OR SERVICE CROSSING OR STORM SEWER OVER WATER MAIN SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE.
20. SEE SHEET 28 FOR FRAME AND GRATE DETAILS.

**FOX METRO WATER RECLAMATION DISTRICT NOTES:**

1. PLUGS ARE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.
2. ALL SANITARY SEWER SHALL BE SDR 26 PVC UNLESS OTHERWISE NOTED.
3. ALL SERVICE STUBS SHALL TERMINATE AT THE PROPERTY LINES AT NO GREATER THAN 6'-7' IN DEPTH
4. A PLUG SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION AT THE EX. SMH-A1 AND SMH-A. ANY ACCUMULATED WATER SHALL BE PUMPED OUT OF THESE MANHOLES.
5. A FACTORY PLUG SHALL BE PLACED ON THE DOWNSTREAM SIDE OF EX-SMH-A1. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN THIS PLUG. NO WATER, MUD OR AGGREGATES SHALL BE ALLOWED TO ENTER THE SANITARY SYSTEM FOR ANY REASON.
6. WHEN WORKING AROUND FOX METRO'S 24" INTERCEPTOR, EXTREME CARE MUST BE TAKEN. SEE APPROPRIATE NOTES AND DETAILS FOR FRAME ADJUSTMENT REQUIREMENTS. ALL INTERCEPTOR FRAMES SHALL REMAIN AT OR BE ADJUSTED TO FINISHED GRADE PER THE APPROVED PLAN.
7. FOR ALL PROPOSED SANITARY SERVICES CONNECTING DIRECTLY INTO A SANITARY MANHOLE, THE TOP OF PIPE ELEVATIONS SHOULD MATCH FOR ALL INCOMING AND OUTGOING PIPES.

PAVEMENT LEGEND

LOCAL ROAD (CITY OF AURORA SPECIFICATIONS)
1.5" HMA SURFACE COURSE, MIX "C", N50
2.5" HMA BINDER COURSE, N50
10" COMPACTED CA-6 (CRUSHED STONE)

**SERVICE LEGEND**

S 1+50, S R = 4" SANITARY SERVICE, LOCATION,
S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1-1/2" TYPE K WATER SERVICE, LOCATION,
L = LONG SERVICE

ST 1+48, S = 6" PVC STORM SERVICE, LOCATION,
S = SHORT SERVICE

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Construction Management • Landscape Architects • Structural Engineers

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
ROAD B PLAN AND PROFILE - STA. 0+00 TO STA. 4+32

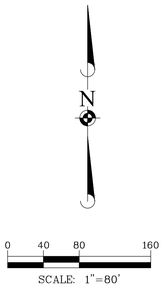
PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: H:1"=40' V:1"=5'

SHEET
21 OF 30
PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 10, 2024 - 12:01 Data Name: P:\Aurora\01_LINCOLN CROSSING SOUTH\Data\Xref\Xref Drawings\Plan Set\V1 - PLAN AND PROFILE B.dwg Updated By: RRorrington




LIGHTING AND SIGNAGE PLAN LEGEND

| | |
|---|---|
| ① | PROPOSED R1-1 STOP SIGN |
| | PROPOSED STREET LIGHT |
| | STOP SIGN |

NOTES:

1. THE CITY TRAFFIC ENGINEER AND/OR THE CITY'S ELECTRICAL SUPERVISOR SHALL RECEIVE CATALOG CUTS FOR THE STREETLIGHTS AND UNDERGROUND WIRING FOR REVIEW AND APPROVAL BEFORE COMMENCEMENT OF CONSTRUCTION. ADDITIONALLY, A LIGHTING PLAN SHALL ALSO BE PROVIDED TO THE CITY FOR REVIEW. THE LIGHTING PLAN SHALL CONSIST AT MINIMUM: HAND HOLE LOCATIONS, ELECTRIC SERVICE INSTALLATION LOCATION, CABLE LOCATION, CONTROLLER, AND LIGHT POLE LOCATION.
2. VOLTAGE DROP SHALL BE NO GREATER THAN THREE PERCENT (3%) FROM POWER SUPPLY TO LAST UNIT WITH NO WIRE SIZE SMALLER THAN NO. 6 AWG, TYPE RHH OR RHW UNDERGROUND SERVICE CABLE. (USE) (XLPH)
3. WHERE A CONDUIT CROSSES A ROADWAY, A PREFABRICATED FIBRELYTE FL9 HAND HOLE OR APPROVED EQUAL WILL BE INSTALLED ON BOTH SIDES OF THE ROADWAY.
4. ALL UNIDUCT CABLE SECTIONS SHALL BE CONTINUOUS AND NO WIRE SPLICING SHALL BE MADE UNDERGROUND UNLESS PLACED IN A HAND HOLE. HAND HOLES SHALL BE FIBRELYTE – FL9.
5. EOLA ROAD AND DEL WEBB BOULEVARD LIGHTING SHALL BE MANUFACTURED BY MILLERBERND RHA8-400 ARM OR APPROVED EQUAL. ALL POLES SHALL BE PAINTED BLACK PER MANUFACTURER'S REQUIREMENTS. FOUNDATIONS SHALL BE CONCRETE FOUNDATIONS, TYPE E, 24" AS SPECIFIED IN THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" CURRENT EDITION AS ADOPTED BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION. LUMINARIES SHALL BE GE ERL2-0-18-C3-40-D-BLCK-AGIL.
6. ALL OTHER ROADWAY LIGHTING SHALL BE AMERON SEH-5.8 (212S) WITH SH-APD-4 ALUMINUM PIPE ARMS OR STRESSCRETE E250-APH-G-S35 C/W 184 H OR APPROVED EQUAL. LUMINARE SHALL BE MOUNTED 19'-9" ABOVE THE STREET, SHALL HAVE A FOUR FOOT (4') ARM AND SHALL BE BURIED A MINIMUM OF FIVE FEET (5') BELOW GRADE AND BACKFILLED WITH CRUSHED CA-6 LIMESTONE, WATERED AND COMPACTED AROUND THE BUTT OF THE POLE.
7. AFTER THE STREET LIGHT INSTALLATION IS COMPLETE, AN AS-BUILT DRAWING WITH INFORMATION ON THE ELECTRIC LOCAT, WIRE, SIZE, LAMP WATTAGE, VOLTAGE AND NUMBER OF STREET LIGHT SHALL BE PROVIDED TO THE CITY. A LETTER REQUESTING INSPECTION AND FOR COMED TO ENERGIZE THE STREET LIGHT SHALL BE SUBMITTED TO THE CITY ELECTRICAL DIVISION.

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Transportation Planners
Environmental Consultants • Landscape Architects • Construction Services

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
PETITIONER: LINCOLN PRAIRIE AURORA LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHARDSON, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
STREET LIGHT AND SIGNAGE PLAN

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: OMT
DATE: 01/10/24
SCALE: 1" = 80'

SHEET
22 OF 30
PUL.AUIL01

©2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 10, 2024 - 12:02 Dwg. Name: P:\Projects\A_LINCOLN CROSSING SOUTH\data\Civil\Xrefs\Plan Sets\V2 - STREET LIGHT AND SIGNAGE PLAN.dwg Updated By: ERichardson

## MATERIAL STANDARDS

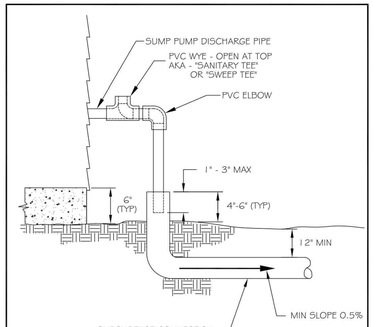
| ITEM | BRAND | PRODUCT |
|---|---|---|
| FIRE HYDRANTS (TRAFFIC MODEL) | MUELLER SUPER CENTURION WATEROUS PACER | A-423 WB-67 |
| GATE VALVES SPECIFY SIZE NON-RISING STEM, 2" NUT, M.J., OPEN LEFT | MUELLER (SIZE) AMERICAN FLOW CONTROL | A-2360-20L SERIES 2500 |
| VALVE BOXES 3 PIECE | EAST JORDAN TYLER/UNION | SCREW ADJUSTING EXTENSION TYPE |
| CURB STOPS (SPECIFY SIZE) | MUELLER FORD | 300 BALL VALVE BALL VALVE |
| CORPORATION VALVE (SPECIFY SIZE) | MUELLER FORD | H-15000 FB600 (AWWA/CC THREAD) |
| MANHOLES IN OPEN AREAS AND PAVEMENT (SELF-SEALING LID WITH PROPER UTILITY MARKINGS) | NEENAH CLOSED LID | R-1772-B |
| | OPEN LID (GREEN SPACE) *1<br>OPEN LID (PAVEMENT) *1 | R-4342<br>R-1713 (TYPE B COVER) |
| CATCH BASINS/INLETS IN COMBINATION CURB & GUTTER (BICYCLE SAFE) | NEENAH<br>B6.12 CURB<br>B6.12 CURB (ON-GRADE)<br>B6.12 CURB (DEPRESSED) | R-3015 TYPE R<br>R-3286-BV<br>R-3509 |
| WATER SERVICE SADDLES (ALL SERVICE SADDLES SHALL BE DOUBLE STRAP; BRONZE, NYLON COATED OR STAINLESS STEEL) | MUELLER<br>FORD<br>SMITH-BLAIR 3/4" & 1" | DR2S<br>FS 303<br># 317 |
| B-BOX (AT LEAST 1 1/4" TOP SECTION) ARCH PATTERN PLUG STYLE LID | FORD<br>MUELLER | EA2<br>CURB BOX |

*1 WHEREVER STORMWATER COULD POSSIBLY ENTER STORM STRUCTURE

DATE?

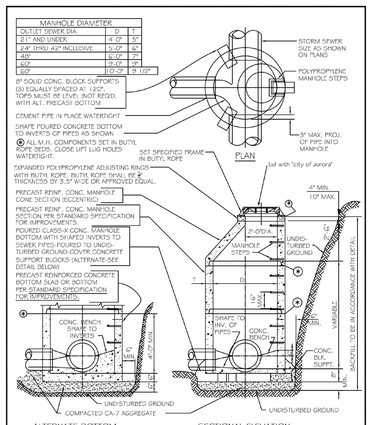
**MATERIAL STANDARDS**

JOB-CODE?

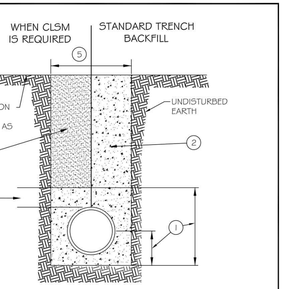



NOTE: THE ABOVE CONFIGURATION HAS BEEN FIELD TESTED AND SHOULD NOT RESULT IN SPLASHBACK AGAINST THE HOUSE. HOWEVER, IF NECESSARY, AN ELBOW CAN BE ADDED TO THE TOP OF THE PVC WYE TO DIRECT BACKFLOW TOWARDS THE YARD RATHER THAN TOWARDS THE HOUSE.

| REVISIONS | | | SUMP PUMP CONNECTION |
|---|---|---|---|
| DATE: | BY: | | |
| 7/04 | N. MECHLIN | | |
| 8/08 | D. GOEWEY | SCALE: NOT TO SCALE | CHECKED: DF |
| 01/2011 | jhs | DATE: 06/02 | DRAWING: D. GOEWEY |
| | | | DRAWING NUMBER: EXHIBIT III-A-2 |

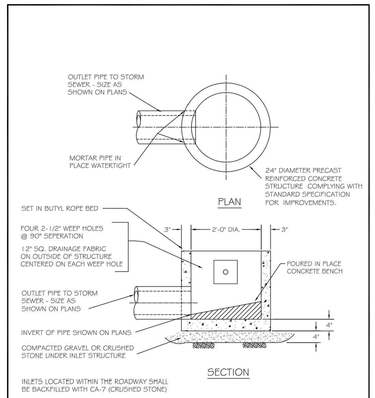



| REVISIONS | | | STORM MANHOLE, TYPE A DETAIL |
|---|---|---|---|
| DATE: | BY: | | |
| 01/20-1 | jhs | | |
| 01/2014 | rjk | SCALE: NOT TO SCALE | CHECKED: DF |
| 06/2022 | rjk | DATE: 1/04 | DRAWING: NM |
| | | | DRAWING NUMBER: EXHIBIT III-A-3 |




1. RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
2. CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.
3. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
4. ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
5. MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05 STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS - CURRENT EDITION

| REVISIONS | | | SEWER TRENCH DETAIL PAVED & UNPAVED |
|---|---|---|---|
| DATE: | BY: | | |
| 04-19 | DGoewey | | |
| | | SCALE: NOT TO SCALE | CHECKED: LA |
| | | DATE: 1/04 | DRAWING: DG |
| | | | DRAWING NUMBER: EXHIBIT III-A-1 |




| REVISIONS | | | STORM INLET, TYPE A DETAIL |
|---|---|---|---|
| DATE: | BY: | | |
| 4/2021 | jhs | | |
| | | SCALE: NOT TO SCALE | CHECKED: DF |
| | | DATE: 1/04 | DRAWING: NM |
| | | | DRAWING NUMBER: EXHIBIT III-A-5 |




| REVISIONS | | | CATCH BASIN TYPE B |
|---|---|---|---|
| DATE: | BY: | | |
| 08/26/22 | DGoewey | | |
| 03/04/22 | CAmch | SCALE: NOT TO SCALE | CHECKED: DF |
| 05/23/22 | CAmch | DATE: 1/04 | DRAWING: NM |
| | | | DRAWING NUMBER: EXHIBIT III-A-4 |

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS, THE CITY OF AURORA SPECIFICATIONS AND/OR FMWRD SPECIFICATIONS ARISE, THE CITY OF AURORA ND FMWRD SPECIFICATIONS SHALL TAKE PRECEDENCE

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Visioneering Engineers
Commercial • Residential • Mixed-Use Developments • Land Development Consultants

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
FEIFER MANAGEMENT GROUP, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2973

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
CITY OF AURORA CONSTRUCTION DETAILS

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.

SHEET
23 OF 30
PUL.AUIL01

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 9, 2024 - 1:15:19 Dwg. Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Civil Data\Final Drawings\Plan Set\46-53 - CONSTRUCTION DETAILS.dwg Updated By: RWalker

WATER MAIN TESTING AND DISINFECTION PROCEDURES
FOR NEW WATER MAIN
CITY OF AURORA, IL
SEPT 2019

GENERAL:

ALL WATER DISTRIBUTION SYSTEM VALVES SHALL ONLY BE OPERATED BY AUTHORIZED CITY OF AURORA EMPLOYEES AND AUTHORIZED DESIGNATED REPRESENTATIVES OF THE CITY OF AURORA. CONTACT THE CITY WATER AND SEWER MAINTENANCE DIVISION AT (630) 256-3710 TO SCHEDULE OPERATION OF WATER MAIN VALVES.

DESIGN PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEERING DIVISION OF THE DEPARTMENT OF PUBLIC WORKS WITH A COMPLETED IEPA APPLICATION FOR CONSTRUCTION PERMIT. UPON APPROVAL BY THE ENGINEERING DIVISION, THE PLANS MUST BE DISTRIBUTED TO ALL CONTRACTORS AND CHLORINATION CONTRACTORS WHO WILL BE WORKING ON SITE. WATER MAIN WORK SHALL NOT START UNTIL AN IEPA PERMIT FOR WATER MAIN CONSTRUCTION HAS BEEN OBTAINED.

WATER MAIN MUST BE DISINFECTED IN ACCORDANCE WITH AWWA C651-14 STANDARD, EXCEPT WHERE THESE PROCEDURES ESTABLISH A HIGHER STANDARD. ALL CONTAMINATION PREVENTIVE MEASURES, PRESSURE TESTING, PRELIMINARY FLUSHING, CHLORINATION, AND BACTERIOLOGICAL SAMPLING OF THE WATER MAIN SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE CITY OF AURORA'S ENGINEERING DIVISION OR ITS DESIGNATED REPRESENTATIVE. THE INSTALLATION CONTRACTOR SHALL NOTIFY THE CITY OF AURORA'S ENGINEERING DIVISION OR ITS DESIGNATED REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF EACH OF THE FOLLOWING ACTIVITIES: STARTING CONSTRUCTION OF A PROJECT, PRESSURE TESTING, PRELIMINARY FLUSHING, CHLORINATION, AND BACTERIOLOGICAL SAMPLING OF ANY WATER MAIN PIPING.

CONTAMINATION PREVENTIVE MEASURES DURING CONSTRUCTION:

SOIL, ORGANIC MATTER, AND OTHER HEAVY MATERIAL TYPICALLY CONTAIN BACTERIA AND CAN PREVENT EVEN HIGH CONCENTRATIONS OF CHLORINE FROM CONTACTING AND KILLING THE ORGANISMS. THESE BACTERIA CAN CAUSE FAILURE OF BACTERIOLOGICAL SAMPLING. PREVENTING THESE TYPES OF MATERIALS FROM ENTERING WATER MAIN PIPE EITHER DURING OR BEFORE INSTALLATION IS CRITICAL. PREVENTIVE MEASURES ARE DESCRIBED IN DETAIL IN AWWA STANDARD C651-14 SECTION 4.8. AT A MINIMUM, THE FOLLOWING PREVENTIVE MEASURES SHALL BE FOLLOWED DURING WATER MAIN PIPE INSTALLATION:

1. KEEP PIPE CLEAN AND DRY. THE INTERIORS OF PIPES, FITTINGS, AND VALVES SHALL BE PROTECTED FROM CONTAMINATION. ALL OPENINGS IN THE PIPELINE SHALL BE CLOSED WATERTIGHT OR WITH RODENT-PROOF PLUGS WHEN PIPE LAYING IS STOPPED AT THE CLOSE OF THE DAY'S ACTIVITIES OR FOR OTHER REASONS.
2. JOINTS. JOINTS OF ALL PIPE IN THE TRENCH SHALL BE COMPLETED BEFORE WORK IS STOPPED.
3. CLEANING AND SWABBING. IF DIRT OR OTHER FOREIGN MATERIAL ENTERS THE PIPE, IT SHALL BE REMOVED AND THE INTERIOR OF THE PIPE SURFACE SWABBED WITH A 1 TO 5% SODIUM HYPOCHLORITE (NAOCL) DISINFECTING SOLUTION. IF IN THE OPINION OF THE CITY OF AURORA ENGINEERING DIVISION, OR ITS DESIGNATED REPRESENTATIVE, THE FOREIGN MATERIAL IN THE PIPE WILL NOT BE REMOVED BY PRELIMINARY FLUSHING ACTIVITIES, THE INTERIOR OF THE PIPE SHALL BE CLEANED USING MECHANICAL MEANS AT NO ADDITIONAL COST TO THE CITY OF AURORA AND THEN SWABBED AS DESCRIBED ABOVE.

PRESSURE/LEAKAGE TESTING:

ALL TESTING ACTIVITIES SHALL BE RECORDED AND WITNESSED BY THE CITY OF AURORA'S ENGINEERING DIVISION OR ITS DESIGNATED REPRESENTATIVE. ANY TESTING NOT WITNESSED WILL NOT BE ACCEPTED.

AFTER THE WATER MAIN HAS BEEN LAID AND PARTLY BACKFILLED, THE WATER MAIN SHALL BE SLOWLY FILLED WITH WATER TO ELIMINATE AIR POCKETS PRIOR TO TESTING. THE MAIN SHALL BE FILLED WITH WATER AT A RATE TO ENSURE THAT THE WATER WITHIN THE MAIN WILL FLOW AT A VELOCITY NO GREATER THAN 1 FOOT/SECOND. THIS WATER SHALL REMAIN IN THE PIPE FOR AT LEAST 24 HOURS BEFORE TESTING CAN BEGIN.

BEFORE APPLYING THE TEST PRESSURE, AIR SHALL BE COMPLETELY EXPELLED FROM THE PIPE. THE TEST PRESSURE SHALL BE AT LEAST 150 PSI AND THE TEST SHALL LAST FOR A MINIMUM OF 2 HOURS. A LOSS OF MORE THAN 5 PSI DURING THE TEST SHALL RESULT IN A TEST FAILURE AND THE TEST MUST BE RESTARTED. UPON COMPLETION OF THE TEST, THE VOLUME OF RECOVERY MAY BE DEFINED AS THE AMOUNT NECESSARY TO RESTORE THE PRESSURE WITHIN THE TEST SECTION TO THE VALUE AT THE COMMENCEMENT OF THE TEST. THE ALLOWABLE LEAKAGE SHALL BE AS DETERMINED BY AWWA STANDARD C600-100 SEC. 5.2, BASED ON AN ALLOWABLE LEAKAGE OF 10.49 GPD/MI/INCH. WHILE LENGTHS GREATER THAN 1,000 FEET MAY BE TESTED AT ONE TIME, THE PERMISSIBLE LEAKAGE WILL BE CALCULATED FOR THE LENGTH OF WATER MAIN TESTED UP TO A MAXIMUM OF 1,000 FEET REGARDLESS IF THE ACTUAL LENGTH OF MAIN TESTED IS LONGER.

PRELIMINARY FLUSHING:

AFTER SATISFACTORY COMPLETION OF PRESSURE/LEAKAGE TESTING, THE WATER MAIN SHALL RECEIVE A PRELIMINARY FLUSH. FLUSHING OF WATER MAINS SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE CITY OF AURORA'S ENGINEERING DIVISION, OR ITS DESIGNEE, IN ACCORDANCE WITH THE APPROVED FLUSHING PLAN. THE FLUSHING SHALL INCLUDE 100% OF THE NEWLY INSTALLED WATER MAIN AS WELL AS EVERY FIRE HYDRANT INSTALLED. DURING THE FLUSHING OPERATION THE DIRECTION OF FLOW THROUGH THE MAINS SHALL BE REVERSED. ALL MAIN LINE AND HYDRANT VALVES SHALL BE OPENED AND CLOSED WHILE FLUSHING IN EACH DIRECTION. FLUSHING SHALL ONLY TAKE PLACE BETWEEN 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.

THE FLUSHING VELOCITY IN THE MAIN SHALL BE A MINIMUM OF 3.0 FEET/SECOND. SEE TABLE A FOR RECOMMENDED FLOWS TO PROPERLY FLUSH PIPING.

**Table A**
**Required Flow and Openings to Flush Pipelines***

| Pipe Diameter (Inch) | Flow Required to Produce 3.0 ft/s Velocity in Main (gpm) | Size of Tap | | | Number of 2-1/2 inch Hydrant Outlets |
|---|---|---|---|---|---|
| | | 1-inch | 1-1/2 inch | 2-inch | |
| | | Number of Taps on Pipe** | | | |
| 4 | 170 | 1 | - | - | 1 |
| 6 | 360 | - | 1 | - | 1 |
| 8 | 470 | - | 2 | - | 1 |
| 10 | 730 | - | 3 | 2 | 1 |
| 12 | 1,060 | - | - | 3 | 2 |
| 16 | 1,880 | - | - | 5 | 2 |

* ASSUMING 40 PSI RESIDUAL PRESSURE IN EXISTING WATER MAIN A 2-1/2" HYDRANT OUTLET WILL DISCHARGE APPROXIMATE 1000 GPM AND 4-1/2" WILL DISCHARGE 2,500 PGM.
** NUMBER OF TAPS ON PIPE BASED ON DISCHARGE THROUGH 5 FT. OF GALVANIZED IRON (GI) PIPE WITH ONE 90 DEGREE ELBOW.

NOTE: FLUSHING IS NO SUBSTITUTE FOR PREVENTIVE MEASURES DURING CONSTRUCTION. CERTAIN CONTAMINANTS, SUCH AS CAKED DEPOSITS, RESIST FLUSHING AT ANY FEASIBLE VELOCITY.

WATER MAIN DISINFECTION:

DISINFECTION SHALL BE ACCOMPLISHED BY THE USE OF LIQUID SODIUM HYPOCHLORITE (NAOCL) OR CHLORINE GAS ONLY. THE CITY OF AURORA'S ENGINEERING DIVISION OR ITS DESIGNATED REPRESENTATIVE SHALL WITNESS THE CHLORINATION OF THE WATER MAIN. CHLORINATION OF THE WATER MAIN SHALL NOT BE PERMITTED UNTIL THE MAIN HAS PASSED THE PRESSURE/LEAKAGE TEST AND A PRELIMINARY FLUSH HAS BEEN PERFORMED, WITNESSED, AND APPROVED.

UNDER THE SUPERVISION OF THE PROJECT FIELD REPRESENTATIVE, WATER FROM THE EXISTING DISTRIBUTION SYSTEM SHALL BE MADE TO FLOW AT A CONSTANT RATE INTO THE NEWLY LAID WATER MAIN, AT A POINT NOT MORE THAN 10 FEET DOWNSTREAM FROM THE BEGINNING OF THE NEW MAIN. WATER ENTERING THE NEW MAIN SHALL RECEIVE A DOSE OF CHLORINE FED AT A CONSTANT RATE SUCH THAT THE WATER WILL RECEIVE NOT LESS THAN 50 MG/L OF FREE CHLORINE (SEE TABLE B OR C BELOW).

IF CHLORINE GAS IS UTILIZED, A MINIMUM OF TWO PEOPLE EMPLOYED BY THE CHLORINATOR ARE REQUIRED WHEN CHLORINATING A MAIN. ONE PERSON TO MONITOR THE CHLORINE GAS SYSTEM AT THE CYLINDER AND ONE PERSON TO MONITOR THE FREE CHLORINE LEVELS AT THE WHIP/SAMPLE LOCATIONS. THE CHLORINE GAS CYLINDER IS NOT TO BE LEFT UNATTENDED AT ANY TIME DURING THE DISINFECTION PROCEDURE.

ALL MAIN LINE AND HYDRANT VALVES (EXCEPT FOR VALVES AT THE CONNECTION BETWEEN THE NEW AND EXISTING SYSTEMS) SHALL BE OPERATED AFTER THE MAIN HAS BEEN CHLORINATED IN ORDER TO ALLOW THE VALVE DISK TO MAKE CONTACT WITH THE CHLORINE SOLUTION. AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY THE CITY OF AURORA OR ITS DESIGNEE), WATER USED TO DISINFECT THE NEW MAIN DURING THE APPLICATION OF CHLORINE WILL BE SUPPLIED THROUGH A TEMPORARY CONNECTION. THIS TEMPORARY CONNECTION SHALL BE INSTALLED WITH AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE TO PREVENT BACKFLOW INTO THE DISTRIBUTION SYSTEM.

**Table B**
**Chlorine Gas Required to Produce 50 mg/L Concentration in 100 ft. of Pipe**

| Pipe Diameter (Inch) | 100% Chlorine Gas* (Pounds / 100 LF) |
|---|---|
| 4 | .026 |
| 6 | .060 |
| 8 | .108 |
| 10 | .170 |
| 12 | .240 |
| 16 | .434 |

* Approximate dosages required

**Table C**
**1% Sodium Hypochlorite (NaOCl) Solution Required to Produce 50 mg/L Concentration in 100 ft. of Pipe**

| Pipe Diameter (Inch) | 1% Sodium Hypochlorite Solution* (Gallons / 100 LF) |
|---|---|
| 4 | .32 |
| 6 | .72 |
| 8 | 1.30 |
| 10 | 2.04 |
| 12 | 2.88 |
| 16 | 5.60 |

* Approximate dosages required

A MINIMUM FREE CHLORINE RESIDUAL OF 25 MG/L SHALL REMAIN IN THE WATER MAIN AFTER STANDING 24 HOURS IN THE PIPE AS TESTED/CONFIRMED BY THE CITY'S ENGINEERING DIVISION OR DESIGNATED REPRESENTATIVE. A FREE CHLORINE CONCENTRATION LESS THAN 25 MG/L INDICATES AN UNUSUALLY LARGE CHLORINE DEMAND AND CAN BE AN INDICATION OF SIGNIFICANT CONTAMINATION WITHIN THE PIPE. THIS CONDITION SHALL REQUIRE THE CONTRACTOR TO PERFORM A SECOND PRELIMINARY FLUSH AND ALSO TO CHLORINATE THE MAIN A SECOND TIME PRIOR TO COLLECTION OF ANY SAMPLES.

FINAL FLUSHING AND BACTERIOLOGICAL TESTING:

A MINIMUM OF 24 HOURS AFTER THE WATER MAIN HAS BEEN PROPERLY CHLORINATED, THE CONTRACTOR SHALL SCHEDULE AN APPOINTMENT FOR BACTERIOLOGICAL TESTING. THE CONTRACTOR SHALL CONTACT THE CITY OF AURORA'S MICROBIOLOGY LABORATORY AT (630) 256-3255 TO SCHEDULE SAMPLE COLLECTION. TYPICALLY, SAMPLE COLLECTION WILL OCCUR ON THE NEXT BUSINESS DAY. SAMPLING SHALL ONLY TAKE PLACE BETWEEN 7:30 AM AND 3:00 PM MONDAY THROUGH THURSDAY, EXCLUDING HOLIDAYS. SAMPLES WILL NOT BE COLLECTED ON FRIDAYS, SATURDAYS, OR SUNDAYS. SAMPLE RESULTS SHALL TYPICALLY BE AVAILABLE WITHIN 25 HRS OF THE SAMPLE COLLECTION.

ALL OF THE WATER MAIN THAT IS COVERED BY ONE IEPA PERMIT MUST BE TESTED AND SAMPLED AS A COMPLETE PROJECT. BACTERIOLOGICAL SAMPLING WILL NOT BEGIN UNTIL THE ENTIRE LENGTH OF THE WATER MAIN BEING PERMITTED BY THE IEPA FOR THAT PARTICULAR PROJECT HAS BEEN INSTALLED, PRESSURE TESTED, AND CHLORINATED. MODIFICATIONS OF THIS REQUIREMENT MUST BE DISCUSSED WITH THE CITY'S REPRESENTATIVE 7 DAYS PRIOR TO DISINFECTION PROCEDURES.

JUST PRIOR TO SAMPLING, THE MAIN SHALL BE FLUSHED UNDER THE SUPERVISION OF APPROVED CITY OF AURORA PERSONNEL OR A DESIGNATED REPRESENTATIVE TO REDUCE THE FREE CHLORINE CONCENTRATION TO NO MORE THAN 3.5 MG/L. CITY OF AURORA WATER PRODUCTION DIVISION PERSONNEL SHALL COLLECT ALL BACTERIOLOGICAL SAMPLES. SAMPLE POINTS SHALL CONSIST OF ONLY COPPER WHIPS ATTACHED TO THE MAIN AND SHALL BE LOCATED EVERY 1,200 FEET, PLUS ONE LOCATION FROM THE END OF THE LINE, AND AT LEAST ONE LOCATION FROM EACH BRANCH GREATER THAN ONE PIPE LENGTH LONG (GENERALLY 20 FEET). REPRESENTATIVE SAMPLES SHALL BE COLLECTED AT LOCATIONS AS DIRECTED BY THE CITY OF AURORA'S WATER PRODUCTION DIVISION. SAMPLES SHALL NOT BE DRAWN FROM HYDRANTS.

ALL WATER MAINS MUST BE DISINFECTED BEFORE BEING PLACED INTO SERVICE. DISINFECTION SHALL BE VERIFIED WHEN TWO (2) CONSECUTIVE WATER SAMPLE SETS COLLECTED FROM THE COMPLETED WATER MAIN AT LEAST 24 HOURS APART SHOW THE ABSENCE OF COLIFORM BACTERIA AND THE PRESENCE OF A CHLORINE RESIDUAL AS REQUIRED BY 35 ILL. ADM. CODE 604.725 (> 1.0 MG/L COMBINED/TOTAL CHLORINE). ALL SAMPLES SHALL BE ANALYZED FOR COLIFORM BACTERIA AT THE CITY OF AURORA'S ILLINOIS DEPARTMENT OF PUBLIC HEALTH CERTIFIED LABORATORY. FAILURE TO PASS THE BACTERIOLOGICAL TEST REQUIRES THAT THE FLUSHING OR DISINFECTION PROCESS BE REPEATED.

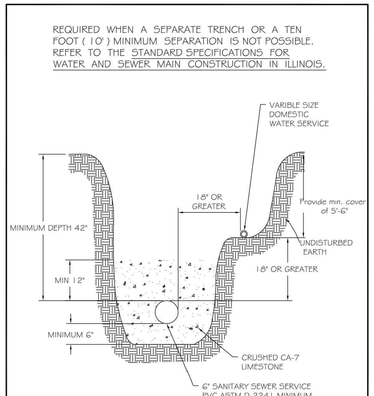
THE CITY OF AURORA WILL COLLECT A TOTAL OF THREE (3) SAMPLES FROM EACH DESIGNATED SAMPLE LOCATION FREE OF CHARGE. IF ANY OF THE THIRD SAMPLES COLLECTED FROM ANY LOCATION INDICATE BACTERIOLOGICAL CONTAMINATION THEN THE CONTRACTOR MUST AGAIN PERFORM PRELIMINARY FLUSHING AND CHLORINATION (AS DESCRIBED ABOVE) ON THE WATER MAIN BEFORE ADDITIONAL SAMPLES WILL BE COLLECTED BY THE CITY OF AURORA. IF THE PORTIONS OF THE WATER MAIN WHICH HAVE NOT PASSED THE BACTERIOLOGICAL SAMPLING CAN BE PROPERLY ISOLATED FROM THE PORTIONS THAT HAVE PASSED, AND THE CITY OF AURORA ENGINEERING DIVISION OR ITS DESIGNATED REPRESENTATIVE APPROVES, THEN ONLY THE UNSATISFACTORY PORTIONS OF THE MAIN WILL BE REQUIRED TO BE RE-FLUSHED, RE-CHLORINATED, AND RE-SAMPLED.

ONCE SAMPLES ARE COLLECTED, CITY OF AURORA EMPLOYEES OR ITS DESIGNATED REPRESENTATIVE SHALL STOP THE FLOW OF WATER THROUGH THE COPPER SAMPLE WHIP AND THE MAIN. THUS, ALL VALVES ASSOCIATED WITH ALL HYDRANTS, COPPER WHIPS, AND NEW MAIN ISOLATION VALVES SHALL BE CLOSED AND MAY NOT BE LEFT "RUNNING" BETWEEN COLLECTIONS OF SAMPLES ON CONSECUTIVE DAYS.

AFTER SAMPLES ARE COLLECTED, CITY OF AURORA PERSONNEL OR ITS DESIGNATED REPRESENTATIVE SHALL CLOSE THE MAIN ISOLATION VALVE THAT PROVIDES WATER FROM THE EXISTING WATER MAIN INTO THE NEWLY INSTALLED WATER MAIN BEING TESTED. THIS VALVE SHALL REMAIN CLOSED UNTIL THE WATER MAIN PROJECT RECEIVES APPROVAL TO BECOME ACTIVE OR IF ADDITIONAL SAMPLING OR FLUSHING IS REQUIRED. APPROVED CITY OF AURORA PERSONNEL, OR ITS DESIGNATED REPRESENTATIVE, SHALL BE THE ONLY INDIVIDUALS ALLOWED TO OPERATE THIS VALVE.

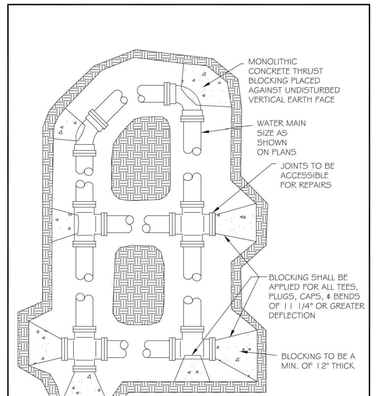
ANY QUESTIONS CONCERNING INSTALLATION, TESTING, OR DISINFECTION PROCEDURES SHOULD BE DIRECTED TO THE CITY'S DESIGNATED REPRESENTATIVE OR THE WATER PRODUCTION DIVISION AT (630)256-3250.

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS, THE CITY OF AURORA SPECIFICATIONS AND/OR FMWRD SPECIFICATIONS ARISE, THE CITY OF AURORA ND FMWRD SPECIFICATIONS SHALL TAKE PRECEDENCE.



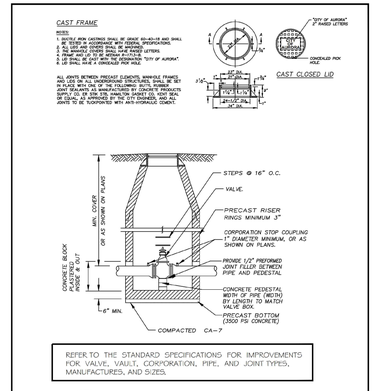

| REVISIONS | | | SANITARY AND WATER SERVICE SEPARATION | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 01/2021 | jhs | | CHECKED: DF | EXHIBIT III-C-2 |
| | | | DATE: 1/04 | DRAWN: NM |

AURORA ENGINEERING




| REVISIONS | | | THRUST BLOCKING | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 01/2021 | jhs | | CHECKED: DF | EXHIBIT III-C-3 |
| | | | DATE: 1/04 | DRAWN: NM |

AURORA ENGINEERING

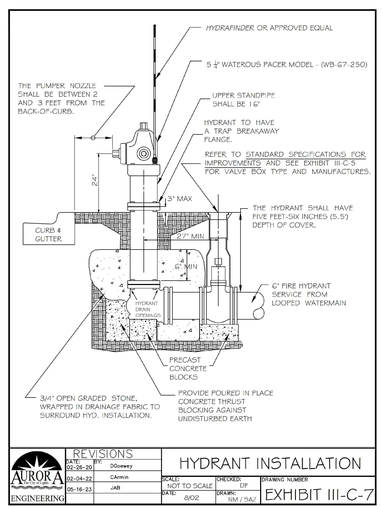



REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR VALVE, VAULT, CORPORATION, PIPE, AND JOINT TYPES, MANUFACTURES, AND SIZES.

NOTES:
1. VALVE VAULTS TO BE PRECAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED.
2. PRO-RING AND ADHESIVE SEALANT (BY CRETEX) OR APPROVED EQUAL ADJUSTMENT RINGS SHALL BE USED FOR ALL ADJUSTMENTS UP TO A MAXIMUM ADJUSTMENT OF TEN INCHES (10").

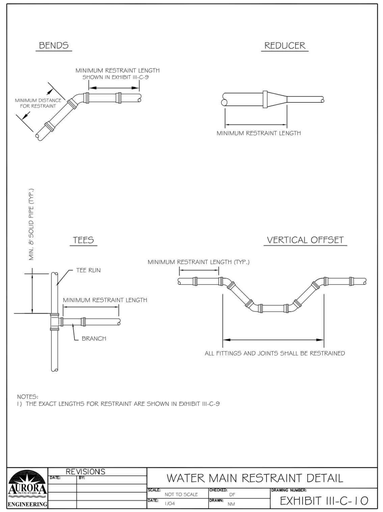
| REVISIONS | | | VALVE IN VAULT | |
|---|---|---|---|---|
| DATE: | BY: | Waukesha | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 12/2022 | CAmin | | CHECKED: DF | EXHIBIT III-C-4 |
| | | | DATE: 1/04 | DRAWN: NM |

AURORA ENGINEERING




| REVISIONS | | | HYDRANT INSTALLATION | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 09-26-20 | DGowey | | CHECKED: DF | EXHIBIT III-C-7 |
| 02-04-22 | CAmin | | DATE: 8/02 | DRAWN: NM / SAZ |
| 05-16-23 | JAB | | | |

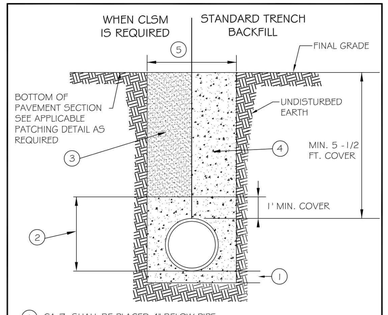
AURORA ENGINEERING




NOTES:
1) THE EXACT LENGTHS FOR RESTRAINT ARE SHOWN IN EXHIBIT III-C-9

| REVISIONS | | | WATER MAIN RESTRAINT DETAIL | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| | | | CHECKED: DF | EXHIBIT III-C-10 |
| | | | DATE: 1/04 | DRAWN: NM |

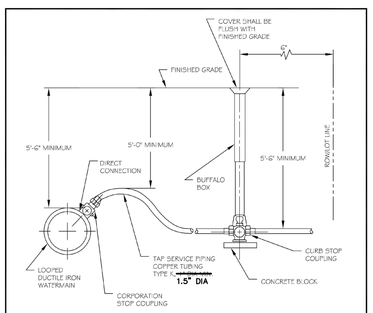
AURORA ENGINEERING




1. CA-7 SHALL BE PLACED 4" BELOW PIPE.
2. CA-6 SHALL BE PLACED 1' OVER T.O.P.
3. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
4. CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.
5. MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05 - STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS CURRENT EDITION

| REVISIONS | | | WATER TRENCH DETAIL PAVED & UNPAVED | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 04-15 | DGowey | | CHECKED: LA | EXHIBIT III-C-1 |
| | | | DATE: 1/04 | DRAWN: DG |

AURORA ENGINEERING




REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR CORPORATION COUPLING, BUFFALO BOX, CURB BOX, AND PIPE MATERIAL, TYPE, MANUFACTURE, AND SIZES.

NOTES:
1. WHEN WATERMAIN IS LOCATED WITHIN AN EASEMENT RATHER THAN THE PUBLIC RIGHT-OF-WAY, THE BUFFALO-BOXES MUST ALSO BE LOCATED WITHIN THE EASEMENT AND WITHIN 2' OF THE WATERMAIN.

| REVISIONS | | | TYPICAL WATER SERVICE TAP AND BOX | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NTS | DRAWING NUMBER |
| 09-26-20 | DGowey | | CHECKED: DF | EXHIBIT III-C-6 |
| 07-07-22 | CAmin | | DATE: 06/02 | DRAWN: NM |

AURORA ENGINEERING

**Minimum Restraint Length (ft) on both sides of the Fitting**

| Fitting Type/Nominal Size | 6" | 8" | 12" | 16" |
|---|---|---|---|---|
| 11 ¼ ° Bend | 2 | 3 | 4 | 6 |
| 22 ½ ° Bend | 5 | 6 | 9 | 11 |
| 45 ° Bend | 10 | 13 | 18 | 23 |
| 90 ° Bend | 23 | 30 | 43 | 56 |
| Dead End | 31 | 40 | 57 | 74 |
| Top Side of a Vertical Offset [1] | 19 | 25 | 35 | 46 |
| Tee Run x Branch [2] 6" BY | 24 | | | |
| Tee Run x Branch [2] 8" BY | 22 | 34 | | |
| Tee Run x Branch [2] 12" BY | 18 | 31 | 51 | |
| Tee Run x Branch [2] 16" BY | 14 | 28 | 48 | 67 |
| Reducer [3] 8" BY | 17 | | | |
| Reducer [3] 12" BY | 42 | 30 | | |
| Reducer [3] 16" BY | 62 | 54 | 31 | |

**[1] All joints within the lowered section of the watermain shall be restrained or shall be solid pipe. The above distances reflect the required restraint distance on the normally elevated watermain either side of the 45° Fitting of the vertical offset (or lowering).**

**[2] Minimum of 8 ft of solid pipe is required on both sides of the fitting on the run side. Distance indicates the length of restraint on the branch side or the side perpendicular to the tee run watermain.**

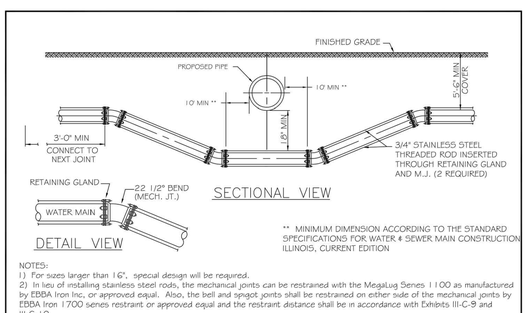
**[3] Indicates the distance from the larger end of the reducer.**

Notes: 1) All nuts and bolts shall be stainless steel.
2) The Entire restraint system from the fitting to the minimum restraint distance must be Inspected by The City of Aurora or it's representative prior to backfilling.

| Revisions | | Watermain Restraint Length Table | |
|---|---|---|---|
| Date: | By: | Scale: None | Checked PJH |
| | | Date: 2/04 | Drawn: DF |

Engineering Department

**EXHIBIT III-C-9**




** MINIMUM DIMENSION ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION ILLINOIS, CURRENT EDITION

NOTES:
1) For sizes larger than 16", special design will be required.
2) In lieu of installing stainless steel rods, the mechanical joints can be restrained with the MegaLug Series 1100 as manufactured by EBBA Iron Inc, or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.

| REVISIONS | | | WATER MAIN LOWERING DETAIL | |
|---|---|---|---|---|
| DATE: | BY: | | SCALE: NOT TO SCALE | DRAWING NUMBER |
| 04/18 | DGowey | | CHECKED: DF | EXHIBIT III-C-8 |
| | | | DATE: 1/04 | DRAWN: SAZ |

AURORA ENGINEERING

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Management • Landscape Architects • Planners • Environmental Scientists

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
FEATURE PARTNERS REAL ESTATE GROUP
1900 E GOLF ROAD, SUITE 800
SCHAUMBURG, IL 60173
CONTACT: MATT RIS, P.E.
(630) 772-2573

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
CITY OF AURORA CONSTRUCTION DETAILS

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.

SHEET
24 OF 30
PUL.AUIL01

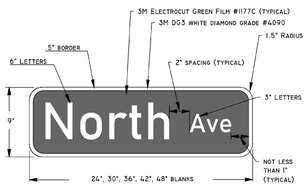
© 2024 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 9, 2024 - 8:19 Dwg. Name: P:\Aurora01\LINCOLN CROSSING SOUTH\data\Xref\Final Drawings\Water Set\4d-53 - CONSTRUCTION DETAILS.dwg Updated By: ZWeber

## STREET SIGN REQUIREMENTS

ALL STREET SIGNS SHALL USE A .09 THICK FLAT ALUMINUM BLANK. HWY C FONT SHALL BE USED FOR THE TEXT WITH 6" LETTERS, UPPER AND LOWER CASE. THE PREFIX (N. S, E, W ) AND SUFFIX (ST, AVE, ETC.) ARE 3". COMMON SIGN LENGTHS ARE 24", 30", 36", 42" OR 48". THE HEIGHT IS 9" WITH A 1.5" CORNER RADIUS. SIGN LENGTH IS DETERMINED BY LENGTH OF STREET NAME. THE BLANK IS COVERED WITH 3M 963 WHITE DIAMOND GRADE #4090. THE LETTERS ARE CUT AND REMOVED WITH 3M ELECTROCUT GREEN FILM #1177C. THE GREEN FILM IS THEN PLACED OVER THE WHITE TO CREATE WHITE LETTERS WITH A GREEN BACKGROUND.

FLAT ALUMINUM BLANK THICKNESS .090

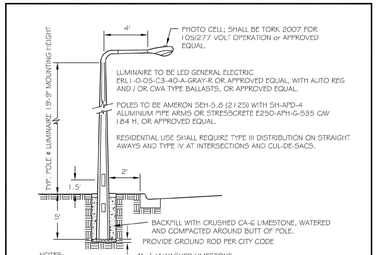



REVISIONS — DATE: 02/2022 BY: CAmin
STREET SIGN REQUIRMENTS
SCALE: NOT TO SCALE CHECKED: MP DRAWN: DGoewey DRAWING NUMBER: EXHIBIT II-H-1
AURORA ENGINEERING

## CURB AND GUTTER GENERAL NOTES:

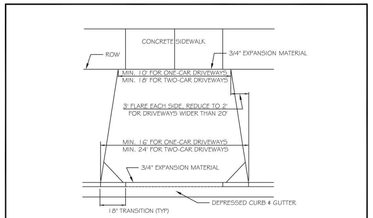
1. Contraction joints shall be placed ten (10) feet on centers and shall be saw cut to a minimum depth of two (2) inches from front to back within twenty four (24) hours of concrete placement.
2. The concrete material, curing, protection, and placement for all curb, combination curb and gutter or, depressed curb and gutter shall meet the requirements of Articles 606,1020, 1021, 1022, and 1023 of the State of Illinois "Standard Specifications for Road and Bridge Construction", latest edition. Membrane curing and concrete sealing shall be accompanied by W.R. Meadows CS-309 Cure and Seal or approved equal like Okon S-20. If the forecast indicates temperatures below 32° F, protection methods shall be installed in accordance with the Standard Specifications for Road and Bridge Construction and shall be approved by the City Engineer.
3. The minimum longitudinal curb slope shall be 0.40%.
4. Cuts into the existing curb shall be made full depth with full expansion joints drilled at each per Exhibit II-C-12 herein.

REVISIONS — DATE: 01/2021 BY: JM; 09/2013 DG
CURB AND GUTTER GENERAL NOTES
SCALE: DATE: 03/06 CHECKED: DRAWN: J. MOORE DRAWING NUMBER: EXHIBIT II-C-5
AURORA ENGINEERING



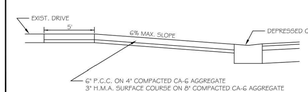

NOTES:
1. CONDUCTORS INSIDE OF A POLE SHALL BE COPPER, SOFT OR ANNEALED, A.S.T.M. SPECIFICATIONS B-3, NATIONAL ELECTRIC CODE SIZE N° (6 MIN.) STRANDED. INSULATION SHALL BE RATED UNDERWRITERS TYPE USE STYLE RK, 600V. FOR DIRECT BURIAL SERVICE.
2. UNDERGROUND CABLE - ALL UNDERGROUND WIRING SHALL BE ENCASED WITHIN A MINIMUM ONE INCH (1") UNDUCT. WHEN WIRING PASSES UNDER PAVEMENTS, SIDEWALKS AND DRIVE APPROACHES, THE UNDUCT SHALL BE INSTALLED IN 2" MINIMUM DIAMETER RIGID GALVANIZED STEEL CONDUIT.
3. CONTROLS - EACH CIRCUIT SHALL BE PROVIDED WITH A BUSSMAN HEB-AA SOLDERLESS FUSE HOLDERS WITH RUBBER BOOTS IN THE BASE OF EACH POLE. THE NECESSARY WIRING SERVICE TO THE POWER SOURCE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE LIGHTING SHALL BE CONTROLLED AUTOMATICALLY BY A PHOTO CELL MOUNTED ON EACH LUMINARIE. THE SERVICE SHALL MEET THE REQUIREMENTS OF COMMONWEALTH EDISON CO. AND THE CITY OF AURORA.
4. TURN ON REQUIREMENTS - THE CONTRACTOR / DEVELOPER SHALL SUBMIT A WRITTEN REQUEST TO CITY'S ELECTRICAL MAINTENANCE DIVISION (CEMD) LISTING STREET LIGHTS THAT NEED TO BE INSPECTED BY THE CEMD, BEFORE COMED WILL ENERGIZE THE LIGHTS. THIS REQUEST SHALL INCLUDE 2 SETS OF AS-BUILT DRAWINGS FOR THE STREET LIGHTING INSTALLATION INCLUDING VOLTAGE, LAMP WATTAGE, CONNECTING POINTS, PROPERTY ADDRESSES, ETC.

REVISIONS — DATE: 08/2020 BY: DGoewey
LOCAL AND MINOR COLLECTOR STREET LIGHT DETAIL
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM/SAZ DRAWING NUMBER: EXHIBIT II-C-10
AURORA ENGINEERING



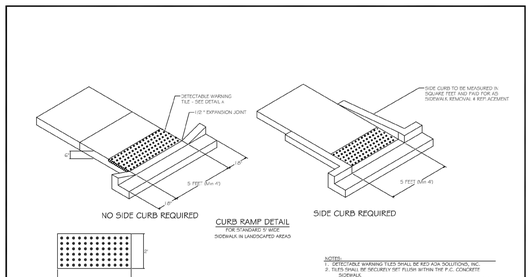

PLAN VIEW

NOTES:
1. IN CITY OF AURORA ESTABLISHED HISTORIC DISTRICTS, DRIVEWAY DIMENSIONS SHALL BE ADJUSTED TO CONFORM TO THE APPROVED STANDARDS.
2. CONTRACTION JOINT DEPTH SHALL BE 1-1/4" MIN.
3. CONTRACTION JOINTS SHALL DIVIDE THE APRON INTO SLABS APPROXIMATELY SQUARE WITH NO SIDE LONGER THAN 8'.



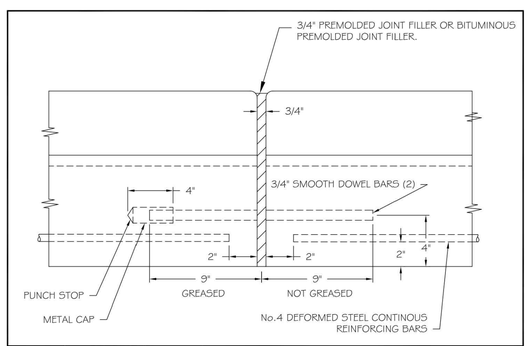

PROFILE VIEW

REVISIONS — DATE: 08/2018 BY: DGoewey
RESIDENTIAL DRIVE APPROACH
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM DRAWING NUMBER: EXHIBIT II-C-7
AURORA ENGINEERING

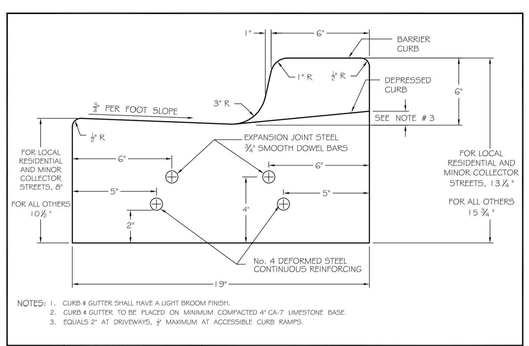



NOTES:
1. DETECTABLE WARNING TILES SHALL BE RED ADA SOLUTIONS, INC. TRUNCATED DOMES RECURVED 69° FLUSH WITHIN THE P.C. CONCRETE SIDEWALK
2. PLACEMENT OF DETECTABLE WARNING TILES SHALL ADHERE TO LOCATIONS & SETBACKS AS SHOWN IN APPLICABLE IDOT STANDARDS FOR VARIOUS FIELD CONDITIONS.
3. 4. SAW CUTTING AND REMOVAL OF CONCRETE WILL NOT BE ALLOWED.
4. 5. DETECTABLE WARNINGS SHALL BE INSTALLED AT ALL CURB RAMPS. BIKE PATH TILE AREA SHALL MEASURE 10' WIDE.

REVISIONS — DATE: 02-26-20 BY: DG
CURB RAMP DETAIL
SCALE: NOT TO SCALE CHECKED: CL DATE: 1/04 DRAWN: DG DRAWING NUMBER: EXHIBIT II-C-6
AURORA ENGINEERING



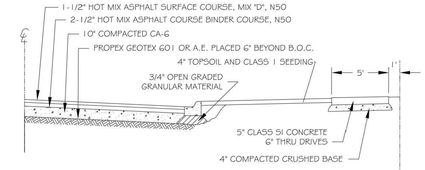

REVISIONS — DATE: 01/2013 BY: DG
EXPANSION JOINT DETAIL
SCALE: NOT TO SCALE CHECKED: DRAWN: DRAWING NUMBER: EXHIBIT II-C-12
AURORA ENGINEERING




NOTES:
1. CURB & GUTTER SHALL HAVE A LIGHT BROOM FINISH.
2. CURB & GUTTER TO BE PLACED ON MINIMUM COMPACTED 4" CA-7 LIMESTONE BASE.
3. EQUALS 2" AT DRIVEWAYS, 3" MAXIMUM AT ACCESSIBLE CURB RAMPS.

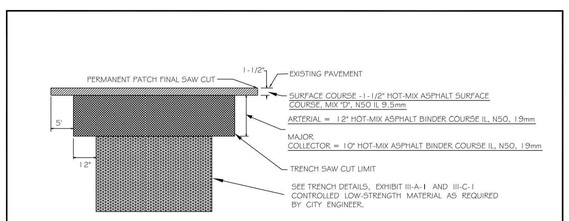
REVISIONS — DATE: 02/2013 BY: DG
CONCRETE CURB & GUTTER
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM DRAWING NUMBER: EXHIBIT II-C-4
AURORA ENGINEERING

## LOCAL RESIDENTIAL STREET
### (MINIMUM DESIGN STANDARD)



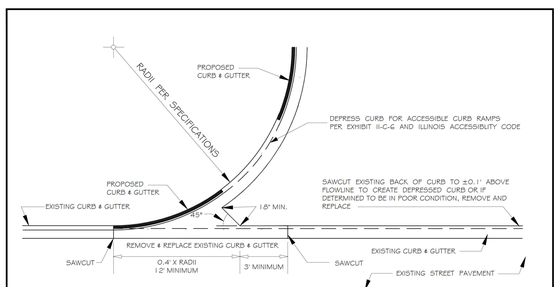

NOTES:
1) SUBGRADE MUST BE SHAPED PARALLEL TO FINISHED COURSE TO OBTAIN A SOUND FREE-DRAINING SUBGRADE TO THE CURB LINE AND TO THE INLETS OR CATCH BASINS.
2) SELECTED COMPACTED SUBGRADE WITH A MIN. I.B.R. OF 3.0
3) SEE EXHIBITS FOR CURB DETAILS
4) CLEAN COMPACTED CLAY FILL TO BE PLACED BEHIND B.O.C. PRIOR TO THE BINDER COURSE
5) SURFACE AND BINDER SHALL MEET THE LATEST EDITION OF IDOT'S STANDARD FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS — DATE: 01/2013 BY: DG
LOCAL RESIDENTIAL STREET
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM/SAZ DRAWING NUMBER: EXHIBIT II-B-1
AURORA ENGINEERING



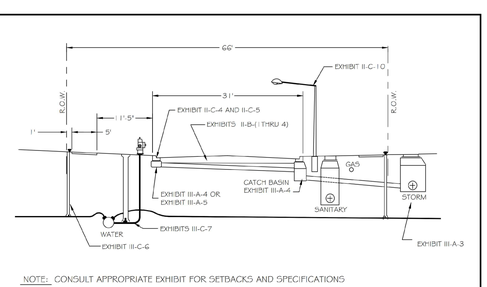

NOTES :
1. A STEEL PLATE SHALL BE PLACED OVER ANY TRENCH REMAINING OPEN TO TRAFFIC PRIOR TO THE INSTALLATION OF THE HOT-MIX BINDER AND SURFACE COURSES.
2. THE ENTIRE STREET FROM CURB TO CURB OR JOINT TO JOINT SHALL BE RESURFACED UNLESS EXPRESSLY PERMITTED BY THE CITY ENGINEER OR HIS DESIGNEE. THE PERMANENT PATCH SHALL BE MILLED SQUARE OR RECTANGULAR AND SHALL ENCOMPASS THE TRENCH AREA WITH A MINIMUM OF FIVE FEET (5') BEYOND THE WIDEST OR LONGEST SAW CUT LIMITS OF THE TRENCH.
3. THE EDGES OF THE EXISTING PAVEMENT SHALL BE SAW CUT AND PRIMED PRIOR TO THE PLACEMENT OF THE SURFACE COURSE.
4. ANY SURFACE VARIATIONS 1" OR GREATER SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH IDOT SPECIFICATIONS.
6. ALL MATERIAL SHALL MEET CURRENT IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS — DATE: 04-18 BY: DGoewey
ARTERIAL AND MAJOR COLLECTOR PERMANENT PATCH DETAIL
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM DRAWING NUMBER: EXHIBIT II-C-3
AURORA ENGINEERING




NOTES:
1. INSTALL TWO 3/4" Ø DOWELL BAR TIES AT EACH SAWCUT LOCATION PER EXHIBIT II-C-12
2. NEW CURB & GUTTER INSTALLATION AND MATERIALS PER EXHIBIT II-C-4

REVISIONS — DATE: 04/2018 BY: DGoewey; 02/2022 CAmin
CURB CONNECTION DETAIL
SCALE: NOT TO SCALE CHECKED: DRAWN: D. GOEWEY DRAWING NUMBER: EXHIBIT II-C-8
AURORA ENGINEERING




NOTE: CONSULT APPROPRIATE EXHIBIT FOR SETBACKS AND SPECIFICATIONS

REVISIONS — DATE: 02/2022 BY: CAmin
TYPICAL CROSS SECTION & UTILITY LOCATION
SCALE: NOT TO SCALE CHECKED: DF DATE: 1/04 DRAWN: NM/SAZ DRAWING NUMBER: EXHIBIT II-B-5
AURORA ENGINEERING

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS, THE CITY OF AURORA SPECIFICATIONS AND/OR FMWRD SPECIFICATIONS ARISE, THE CITY OF AURORA ND FMWRD SPECIFICATIONS SHALL TAKE PRECEDENCE

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Wastewater Engineers
Construction Management • Landscape Architects • Environmental Scientists • Planners

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
/ FETTER HOMES OF ILLINOIS, LLC
1900 E GOLF ROAD, SUITE 800
SCHAUMBURG, IL 60173
CONTACT: MATT RIEL, P.E.
(630) 772-2973

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
CITY OF AURORA CONSTRUCTION DETAILS

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.
SHEET 25 OF 30
PUL.AUIL01

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

©2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

January 9, 2024 - 18:19 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Misc\Engr\Plans\Plan Set\46-53 - CONSTRUCTION DETAILS.dwg Updated By: ZWelter

FOX METRO WATER RECLAMATION DISTRICT
MANHOLE / SEWER PIPE MATERIALS AND INSTALLATION SPECIFICATIONS
FOR DEVELOPER CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATER RECLAMATION DISTRICT
REV: 7/6/2023

1. PIPE & FITTINGS

PIPES AND FITTINGS USED IN SANITARY SEWER CONSTRUCTION SHALL BE POLYVINYL CHLORIDE (PVC). PVC PIPE AND FITTINGS DATED OVER ONE YEAR OLD SHALL NOT BE PERMITTED FOR USE. NO SOLVENT–WELDED JOINTS SHALL BE ALLOWED OUTSIDE OF THE FOUNDATION WALL OF ANY BUILDING.

THE TYPES OF PVC PIPE AND FITTINGS THAT SHALL BE USED IN THE DISTRICT INCLUDE:

- POLY VINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS (ASTM – SDR SERIES): CONFORMING TO ASTM NUMBERS D–1784 (CELL CLASSIFICATION), D–3034, D–3212 (JOINT SPEC), AND F–477 (GASKETS).
- POLY VINYL CHLORIDE (PVC) PRESSURE RATED PIPE AND FITTINGS (ASTM – SDR SERIES): CONFORMING TO ASTM NUMBERS D–1784 (CELL CLASSIFICATION), D–2241, D–3139 (JOINT SPEC), AND F–477 (GASKETS).
- POLY VINYL CHLORIDE (PVC) PRESSURE RATED PIPE AND FITTINGS (AWWA DR–SERIES): CONFORMING TO AWWA C–900 AND ASTM NUMBERS D–1784 (CELL CLASSIFICATION), D–3139 (JOINT SPEC), F–477 & F–913 (GASKETS).

ALL PVC PLASTIC PIPE AND FITTINGS SHALL HAVE A CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM D1784 AND SHALL HAVE MINIMUM PIPE STIFFNESS AS SHOWN BELOW IN TABLE 1. THE REQUIRED STANDARD
DIMENSION RATIO (SDR) OR DIMENSION RATIO (DR) FOR PVC PIPE AND FITTINGS SHALL BE SELECTED BASED ON THE DEPTH OF COVER, AS ALSO SHOWN IN THE TABLE BELOW:

TABLE 1

| DEPTH OF COVER | PIPE DIAMETER | MINIMUM THICKNESS | NATIONAL STANDARD | MINIMUM PIPE STIFFNESS |
|---|---|---|---|---|
| >20–0.0' OR | 8"–12" | SDR 26 | ASTM D–3034 | 115 |
| *>20'–0.0' | *8"–12" | *SDR 21 | *ASTM D–2241 | *224 |
| >20'–0.0' OR | 4"–24" | DR 18 | AWWA C–900 | 364 |

*4/5/2023: PER A NATION–WIDE SHORTAGE OF D–2241 PVC, THIS MIGHT NOT BE AVAILABLE. WHERE SDR 21 D–2241 IS NOT AVAILABLE, DR 18 C–900 PIPE SHALL BE USED AT DEPTHS > 20'.

FITTINGS IN SIZES THROUGH FOURTEEN (14) INCHES SHALL HAVE ELASTOMERIC JOINTS AND MINIMUM SOCKET DEPTHS AS SPECIFIED IN EACH RESPECTIVE SECTION SHOWN ABOVE. THE DISTRICT RESERVES THE RIGHT TO APPROVE/REJECT ALL PIPES AND FITTINGS ON A CASE–BY–CASE BASIS.

2. PIPE BEDDING MATERIAL, HAUNCHING, SUITABLE SOILS, AND TRENCH BACKFILL

BEDDING STONE SHALL BE THOROUGHLY HAUNCHED TO PROVIDE UNIFORM SUPPORT UNDER THE NEW PIPE. SAID BEDDING MATERIAL, AS OUTLINED IN ASTM D–2321, SHALL BE CERTIFIED BY THE MANUFACTURER AND APPROVED BY THE DISTRICT BEFORE INSTALLATION, AND POSSESS THE FOLLOWING CHARACTERISTICS:

- GRADATION: SHALL MEET THE IDOT GRADATION OF CA–7, CLASS 1A, OR ANY MATERIAL(S) PREAPPROVED BY THE DISTRICT DURING THE PLAN–REVIEW PROCESS (* SEE JUST BELOW).
- DESCRIPTION: SHALL BE CRUSHED STONE OR CRUSHED GRAVEL, *CONTAINING NO MORE THAN 5% FINE MATERIAL, AS PRODUCED BY MECHANICAL MEANS.
- PLASTICITY INDEX OF UNDISTURBED EARTH/TRENCH BASE SOIL: SHALL MEET A PLASTICITY INDEX OF 0 TO 4 PERCENT AS DETERMINED BY THE METHOD GIVEN IN AASHTO T 90.
- SPECIFIC GRAVITY OF UNDISTURBED (DRY) TRENCH BASE MATERIAL: SHALL HAVE A SPECIFIC GRAVITY OF GREATER THAN 2.45.
- INITIAL TRENCH BACKFILL MATERIAL: PLEASE REFER TO THE REQUIREMENTS OF THE MUNICIPALITY HAVING FIRST JURISDICTION OVER ALL APPLICABLE ABOVE OR BELOW–GRADE INFRASTRUCTURE.

LABORATORY TEST

THE DISTRICT RESERVES THE RIGHT TO REQUIRE A CONTRACTOR TO SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE THE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL–PLATE LOADING"PER ASTM D2412.

PIPE INSTALLATION AND FIELD TESTING

1. INSTALLATION

IF THE INVERT OF ANY OVERHEAD SEWER EXCEEDS TWO (2) FEET ABOVE THE BUILDING'S FOOTING, PLATE
COMPACTION OF THE CA–7 CLASS 1A AGGREGATE SHALL BE REQUIRED IN TWELVE (12) INCH LIFTS.

TRENCH WIDTHS SHOULD BE STABLE OR SUPPORTED, AND PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE HAUNCHING AND OTHER EMBEDMENT MATERIALS. THE MINIMUM TRENCH WIDTH SHALL BE 32"PLUS THE OUTSIDE DIAMETER OF THE PIPE AND THE MAXIMUM TRENCH WIDTH SHALL BE 48"PLUS THE OUTSIDE DIAMETER OF THE PIPE.

PIPE SIZES SHALL BE A MINIMUM OF EIGHT (8) INCHES FOR PUBLIC SEWERS AND SIX (6) INCHES FOR BUILDING SEWERS.

PIPES SHALL BE LAID IN A MANNER THAT PROVIDES UNIFORM SUPPORT OVER THE ENTIRE LENGTH. NO BLOCKING OF ANY KIND SHALL BE USED TO ADJUST THE PIPE TO GRADE EXCEPT WHEN EMBEDMENT CONCRETE IS USED. THE BEDDING SHALL BE A MINIMUM OF SIX (6) INCHES IN DEPTH. THE BEDDING MATERIAL SHALL BE PLACED AND WORKED ALL AROUND THE PIPE BY HAND (HAUNCHED) TO PROVIDE UNIFORM SUPPORT, THEN AROUND AND OVER THE CROWN OF THE PIPE BY A MINIMUM OF TWELVE INCHES (12"). THE GRANULAR EMBEDMENT MATERIAL SHALL BE PLACED AND CONSOLIDATED ALONG THE FULL WIDTH OF THE TRENCH. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE PIPE IN SUCH A MANNER THAT THE DIAMETRIC DEFLECTION OF THE PIPE SHALL NOT EXCEED FIVE (5) PERCENT.

PVC TRANSITION FITTINGS SHALL BE USED IN ALL NEW CONSTRUCTION WHEN JOINING PVC PIPES OF DIFFERENT OUTSIDE DIMENSIONS, OR FOR PVC TO PVC CONNECTIONS, WHERE NO NECESSARY HUB/AND OR BELL EXISTS.

ALL NEW CONSTRUCTION SERVICE CONNECTIONS TO NEW MAINS SHALL BE WITH A TEE/WYE FITTING WITH A SIX (6) INCH BRANCH. WHERE NO TEE/WYE EXISTS, AN INSERTA TEE BRAND FITTING SHALL BE REQUIRED. ALL CONNECTIONS TO THE MAIN SHALL BE CONSTRUCTED AT A (MAX.) FORTY–FIVE (45) DEGREE ANGLE OR ¦ RISE/RUN PITCH.

CAST IRON ENCLOSURES SHALL BE REQUIRED FOR ALL SANITARY SEWER SERVICE CLEANOUTS LOCATED IN ANY PAVED SURFACE OR IN ANY LOCATION WHERE CLEANOUTS MAY BE DAMAGED BY HEAVY EQUIPMENT. ALL CLEANOUTS SHALL BE FULL–SIZED, BE LOCATED 5'FROM THE BUILDING'S FOUNDATION, AND SPACED NO GREATER THAN ONE HUNDRED (100) FEET APART.

EITHER 4"X 6"RUBBER OR NON–SHEAR COUPLINGS SHALL BE USED TO CONNECT THE BUILDING DRAIN TO THE BUILDING SEWER. IF USING A RUBBER FITTING, THE FOUR–INCH PIPE SHALL BE INSERTED SIX (6) TO TWELVE (12) INCHES INSIDE OF THE SIX–INCH BUILDING SEWER.

WHETHER ANY GREASE REMOVAL SYSTEM (GRS) IS NEWLY CONSTRUCTED OR RETROFITTED TO AN EXISTING BUILDING, ALL DISTRICT GUIDELINES ABOUT THE MINIMUM SLOPE AND COVER DEPTH FOR SANITARY CONSTRUCTION SHALL BE STRICTLY ADHERED TO.

ALL BUILDING DRAINS/SEWERS SHALL BE OVERHEAD OR "HUNG"THROUGH THE WALL OF ANY BASEMENT.

2. TESTING
BEFORE FINAL ACCEPTANCE, ALL PUBLIC SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31–1.12 OF
THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".

THE COST OF ALL TESTING SHALL BE BORNE BY THE DEVELOPER OR THE CONTRACTOR.

ALL PIPELINES SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) AND SHALL BE SUBJECT TO AIR EXFILTRATION, DEFLECTION, AND CLOSED–CIRCUIT TELEVISING TESTING.

AIR EXFILTRATION TESTING SHALL BE PERFORMED USING THE STATE OF ILLINOIS'GUIDELINES AND SHALL BE DIRECTED AND WITNESSED BY AN INSPECTOR FOR THE MUNICIPALITY HAVING FIRST JURISDICTION.

THE DEFLECTION TEST SHALL BE PERFORMED USING AN APPROVED MANDREL OR OTHER DEVICE PERMITTED BY THE DISTRICT. TESTING SHALL OCCUR NO SOONER THAN THIRTY (30) DAYS AFTER BACKFILLING AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPES EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE–LAID OR REPLACED BY THE CONTRACTOR AT THEIR SOLE EXPENSE.

ALL SANITARY SEWER (PUBLIC OR PRIVATE) WITH A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVISED BY THE DISTRICT. SAID TELEVISING WORK IS SCHEDULED ONCE ALL AIR & VACUUM TESTING HAS BEEN RECEIVED BY THE DISTRICT. ANY DEFECTS IN SAID SEWER SHALL BE EXCAVATED, THEN REPAIRED AT THE CONTRACTOR'S OR DEVELOPER'S EXPENSE. CAUTION SHOULD BE TAKEN BEFORE CONSTRUCTING ROADS, CURBS, SIDEWALKS, OR ANY OTHER INFRASTRUCTURE, WHETHER IT IS ABOVE OR BELOW THE GROUND SURFACE. IT IS THE RESPONSIBILITY OF THE UTILITY CONTRACTOR AND THE DEVELOPER TO CONTACT THE DISTRICT BEFORE INSTALLING ANY OF THESE UTILITIES OR INFRASTRUCTURE. REPAIRS TO DEFECTIVE SANITARY SEWERS SHALL BE PERFORMED REGARDLESS OF THE STATUS OF OTHER CONSTRUCTION OR EXTRANEOUS EXPENSES.

MANHOLE INSTALLATION AND FIELD TESTING

1. INSTALLATION

ALL MANHOLE CASTINGS, ADJUSTING RINGS, AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE. THE INSIDE BARREL SECTION OF THE MANHOLE, ADJUSTING RINGS, AND FRAME SHALL NOT BE MORTARED. HOWEVER, THE AREA BETWEEN THE PIPE AND FLOW CHANNEL SHALL BE FILLED WITH CEMENT MORTAR TO PROVIDE A FLUSH SMOOTH SURFACE.

EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A "6"OR **9"WIDE (MIN.) SEALING BAND OF RUBBER AND MASTIC (SEE "REPAIRS"BELOW). THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC (WITH A PROTECTIVE FILM), MEETING THE REQUIREMENTS OF ASTM C–877, **TYPE II OR *TYPE III.

PIPE CONNECTIONS TO ALL MANHOLE OPENINGS (CASTED OR CORE–DRILLED) SHALL BE CONSTRUCTED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C–923, "STANDARD SPECIFICATIONS FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES".

A MAXIMUM OF EIGHT (8) INCHES OF ADJUSTING RINGS (2 TOTAL RINGS) ARE ALLOWED. THE FRAME, CHIMNEY, AND TOP "LIP"OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. ONLY "INFI–SHIELD", "ADAPTOR–SEAL", CRETEX X–85, OR AN APPROVED EQUAL WILL BE ALLOWED.

WHEN A NEW MANHOLE IS APPROVED TO BE CONSTRUCTED ON AN EXISTING PUBLIC SEWER, ONLY NONSHEAR COUPLERS SHALL BE INSTALLED. THIS WORK SHALL BE INSPECTED BY THE MUNICIPALITY HAVING FIRST JURISDICTION OR BY THE DISTRICT.

AFTER ANY MANHOLE IS AT FINISHED GRADE, AND WITH ADJUSTING RINGS AND CHIMNEY SEALS IN PLACE,
EACH STRUCTURE SHALL BE VACUUM TESTED FROM THE TOP OF THE CASTING. ANY LIFT HOLES SHALL BE
PLUGGED WITH A NON–SHRINKING GROUT. NO GROUT SHALL BE PLACED IN ANY HORIZONTAL JOINT OF ANY
MANHOLE FOR ANY REASON. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. A VACUUM OF TEN (10) INCHES OF
MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL
BE MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY (HG) FOR THE FOLLOWING TIME
PERIODS FOR EACH SIZE MANHOLE:

*FORTY–EIGHT INCHES (48") IN DIAMETER – SIXTY (60) SECONDS
*SIXTY INCHES (60") IN DIAMETER –SEVENTY–FIVE (75) SECONDS

*MANHOLE TESTING WILL BE IN ACCORDANCE WITH ASTM–1244–93 OR IN ACCORDANCE WITH DISTRICT REQUIREMENTS. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENT WILL APPLY (E.G. WHERE DEEPER MANHOLES ARE CONSTRUCTED). SHOULD THE MANHOLE FAIL THE VACUUM TEST, THE STRUCTURE SHALL BE DISASSEMBLED TO A POINT THAT SAID LEAK CAN BE REPAIRED WITH BUTYL ROPE. AFTER THE REPAIR IS COMPLETE, THE MANHOLE SHALL BE RE–TESTED UNTIL A SATISFACTORY RESULT IS OBTAINED. REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES

1. PIPES

PIPE CONNECTIONS OF THOSE MADE FROM DISSIMILAR MATERIALS OR OF PVC WITH DIFFERING OUTSIDE DIAMETERS WHERE NO HUB EXISTS SHALL BE MADE WITH A NON–SHEAR COUPLING.

EXISTING NON–PVC BUILDING SEWERS OR "STUBS"SHALL NOT BE USED IN CONNECTION WITH NEW BUILDINGS WHERE A DISTRICT CONNECTION PERMIT IS REQUESTED. IN SUCH CASES, SAID BUILDING SEWER OR "STUB"WILL EITHER NEED TO BE REMOVED TO WITHIN ONE FOOT (1') OF THE PUBLIC SEWER AND THEN REPLACED WITH APPROPRIATE PVC MATERIAL OR LINED WITH A CURED–IN–PLACE PIPE (CIPP) MEETING THE REQUIREMENTS OF ASTM F1216, D5813, D790, AND D2990. SAID CIPP SHALL BE INSTALLED USING THE INVERSION METHOD ONLY, UTILIZING HOT WATER OR STEAM TO CURE ALL LINERS.

BUILDING SEWERS SHALL BE PERMANENTLY ABANDONED USING ONE OF THE FOLLOWING TWO METHODS.

1.) REMOVED TO WITHIN ONE (1) FOOT OF THE PUBLIC SEWER AND PLUGGED USING A MECHANICAL PLUG AND MORTAR. THIS IS THE PREFERRED METHOD. IF THIS IS NOT FEASIBLE, SEE ITEM TWO BELOW.

2.) THE BUILDING SEWER CONNECTION SHALL BE SEALED WITHIN THE PUBLIC SEWER WITH A FOUR (4) FOOT MINIMUM LENGTH CURED–IN–PLACE PIPE (C.I.P.P.) LINER WITH HYDROPHILIC GASKETS.

WHERE A NEWLY CONSTRUCTED PUBLIC SEWER NEEDS TO BE REPAIRED DUE TO DAMAGE HAVING OCCURRED
DURING CONSTRUCTION, ONLY PVC TRANSITION FITTINGS SHALL BE REQUIRED (NO NON–SHEAR COUPLINGS).
ONLY REPAIR CLAMPS CONFORMING TO ANSI/NSF–61 SHALL BE ALLOWED. WHEN THE DAMAGE OCCURS
WITHIN THIRTY (30) FEET OF A MANHOLE, THE CONTRACTOR SHALL REMOVE AND REPLACE THE DAMAGED MAIN FROM THE NEAREST JOINT TO THE MANHOLE.

2. MANHOLES

EACH MANHOLE, WHICH HAS BEEN DISTURBED AROUND THE FULL CIRCUMFERENCE OF THE STRUCTURE,
INCLUDING BEING RAISED OR LOWERED, SHOULD BE CLEANED AND DRIED BEFORE RE–SEALING. EACH CONE
AND BARREL SECTION JOINT SHALL REQUIRE A DOUBLE–LAYER OF BUTYL ROPE AND ALSO BE EXTERNALLY SEALED
WITH A *6"OR **9"WIDE (MIN.) SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER
LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC (WITH A PROTECTIVE FILM). MEETING THE REQUIREMENTS OF ASTM C–877, **TYPE II OR *TYPE III.

A MAXIMUM OF EIGHT (8) INCHES OF ADJUSTING RINGS (2 TOTAL RINGS) IS ALLOWED IN ANY REPAIR. THE
FRAME AND CHIMNEY OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. ONLY "INFI–SHIELD", "ADAPTOR–SEAL", CRETEX X–85, OR APPROVED EQUAL WILL BE ALLOWED.

CONTRACTOR NOTICE
DEVELOPER CONSTRUCTION
FOX METRO WATER RECLAMATION DISTRICT
REV: 7/6/2023

THE FOLLOWING LIST REPRESENTS COSTLY PROBLEMS OR VIOLATIONS THAT COMMONLY OCCUR DURING OR
AFTER CONSTRUCTION. OUR GOAL IS TO MAKE ALL PARTIES AWARE OF THESE PROBLEMS AND HOPEFULLY
REDUCE UNNECESSARY DELAYS, EXPENSES, AND FINES.

TO PERFORM NEW CONSTRUCTION OR REPAIR WORK ON ANY PRIVATE SANITARY OR WATER SERVICE, THE
FOLLOWING MUST BE COMPLETED BEFORE WORK MAY COMMENCE:

- A $25,000 LICENSE & PERMIT BOND MADE OUT TO "FOX METRO WATER RECLAMATION DISTRICT"MUST BE RECEIVED AND APPROVED BEFORE ANY NEW CONSTRUCTION OR REPAIR WORK. PLEASE INSTRUCT YOUR INSURANCE COMPANY TO CALL OUT THE WORK TO BE PERFORMED AS "SANITARY SEWER CONSTRUCTION"OR "SANITARY SEWER EXCAVATION".
- A DISTRICT PERMIT FOR NEW CONSTRUCTION OR A REPAIR PERMIT NEEDS TO BE ISSUED.
- AN INSPECTION IS REQUIRED BY THE DISTRICT. TO SAVE A $50 SAME–DAY INSPECTION FEE, PLEASE PROVIDE TWENTY–FOUR (24) HOUR NOTICE.

1. ALL PUBLIC SANITARY SEWER CONSTRUCTION MUST HAVE AN IEPA PERMIT AND PLAN APPROVAL LETTER ON FILE AT THE DISTRICT BEFORE COMMENCING CONSTRUCTION. TO VERIFY THIS, PLEASE PROVIDE OUR OFFICE WITH A 48–HOUR START NOTIFICATION.

2. TO PREVENT UNNECESSARY WATER, MUD, OR AGGREGATES FROM ENTERING INTO THE EXISTING SANITARY SYSTEM, ALL NEW SANITARY CONSTRUCTION MUST BE SECURELY PLUGGED AND MAINTAINED BY THE CONTRACTOR. THESE PLUG(S), LOCATED PER THE APPROVED PLAN, MAY ONLY BE REMOVED AFTER PERMISSION HAS BEEN OBTAINED FROM THE MUNICIPALITY OR THE DISTRICT. ALL CONSTRUCTION DRAINAGE MUST BE PROPERLY REMOVED FROM THE NEW SANITARY SEWER SYSTEM.

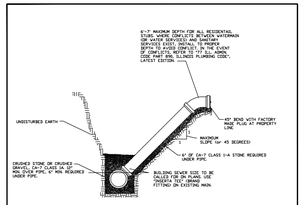
3. ALL NEWLY PROPOSED PRIVATE BUILDING SEWER CONSTRUCTION MUST HAVE A CONNECTION PERMIT FROM THE DISTRICT. IN ADDITION, THIS WORK SHALL BE INSPECTED BY THE DISTRICT. PLEASE CALL (630) 301–6811 BY 3:00 PM THE DAY BEFORE THE REQUESTED INSPECTION TIME. BUILDING SEWERS SHALL BE INSTALLED UNTIL ALL PROPOSED PUBLIC SEWERS HAVE BEEN TESTED AND APPROVED BY THE DISTRICT.

4. ALL DOMESTIC WATER SERVICE INSTALLATIONS (EXCEPT FOR THE VILLAGE OF OSWEGO AND THE CITY OF YORKVILLE) ARE TO BE INSPECTED BY THE DISTRICT. ANY FINAL CONNECTION(S) TO ANY BUILDING, MADE BY ANY PLUMBER OR EXCAVATOR, SHALL ALSO BE INSPECTED BY THE DISTRICT. DO NOT BACKFILL THIS CONNECTION BEFORE A COMPLETED DISTRICT INSPECTION.

5. ALL SANITARY MANHOLES ARE TO BE SEALED (EXTERIOR OF CHIMNEY & BARRELS) AND VACUUM TESTED FROM THE TOP OF THE FRAME. ANY DISRUPTION OF THESE MANHOLES WILL BREAK THE SEAL(S), REQUIRING A COSTLY RESEALING AND RETESTING PROCESS. PLEASE STAY CLEAR OF ALL MANHOLES.

FOR QUESTIONS REGARDING PERMITTING AND CONSTRUCTION, CALL THE DISTRICT'S ENGINEERING DEPARTMENT AT (630) 301–6882. FOR QUESTIONS REGARDING INSPECTIONS OR TO REPORT VIOLATIONS, OPEN MANHOLES, OR OTHER CONSTRUCTION ISSUES, PLEASE CALL (630) 301–6811.

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS, THE CITY OF AURORA SPECIFICATIONS AND/OR FMWRD SPECIFICATIONS ARISE, THE CITY OF AURORA AND FMWRD SPECIFICATIONS SHALL TAKE PRECEDENCE.

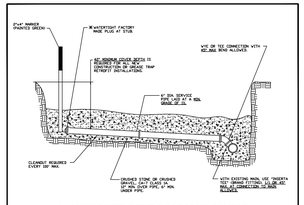



**NOTE**
FOR SERVICES OVER 7' MAX. SEE SPECIFICATIONS, PLANS, & 7'–7" MAX. DEPTH FOR ALL RESIDENTIAL STUBS.

**GREATER THAN 45 ° CONNECTION TO MAIN NOT ALLOWED**

**RISER CONNECTION FOR SERVICE LATERAL**

| Fox Metro Water Reclamation District | DESIGNED: FMWRD | REVISION: | 2023 |
|---|---|---|---|
| | DRAWN: KJ | Other & Control Notes | NUNAR |
| | APPROVED:P.E. MF | Control Note | NUNAR |
| | DATE: 05–15–00 | Misc. Note Revisions | NUNAR |
| | SCALE: NTS | Replaced 6" riser note mentioned | NUNAR |
| | SHEET 1 | CAD DWG. | REVISION: H |
| | OF 1 | JOB NO. | |




★ ALL BUILDING CONNECTIONS ARE REQUIRED TO BE OVERHEAD STUBS AT THE RIGHT OF WAY/PROPERTY LINE. IF A CONFLICT ARISES BETWEEN A SANITARY SEWER AND A WATER LINE, IEPA WATER & SEWER SEPARATION REQUIREMENTS TAKE PRECEDENCE. INSTALL SANITARY TO MAXIMUM DEPTH TO AVOID CONFLICT). IN THE EVENT OF CONFLICTS, REFER TO 77 ILL. ADMIN. CODE PART 890, ILLINOIS PLUMBING CODE", LATEST EDITION.

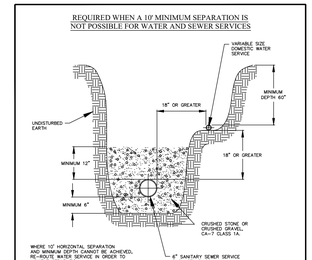
**NOTE**
SELECT GRANULAR BACKFILL REQUIRED UNDER PAVED AREAS, TO BE APPROVED BY APPROPRIATE CITY OR VILLAGE.

**GREATER THAN 45 ° CONNECTION AT MAIN NOT ALLOWED**

**SANITARY SERVICE CONNECTION**

| Fox Metro Water Reclamation District | DESIGNED: FMWRD | REVISION: | 2023 |
|---|---|---|---|
| | DRAWN: KJ | Note Revisions | NUNAR |
| | APPROVED:P.E. MF | Note Revisions | NUNAR |
| | DATE: 05–15–00 | Overhead & Misc. Note Revisions | NUNAR |
| | SCALE: NTS | Depth of stub at R.O.W. with res. revisions | NUNAR |
| | SHEET 1 | CAD DWG. | REVISION: I |
| | OF 1 | JOB NO. | |

REQUIRED WHEN A 10' MINIMUM SEPARATION IS NOT POSSIBLE FOR WATER AND SEWER SERVICES

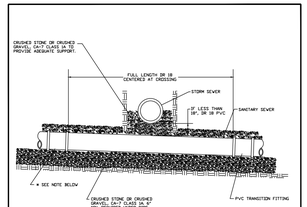



WHERE 10' HORIZONTAL SEPARATION AND MINIMUM DEPTH CANNOT BE ACHIEVED, RE–ROUTE WATER SERVICE IN ORDER TO ACHIEVE SEPARATION.

**NOTE**
INSTALL PER 77 ILL. ADMIN. CODE PART 890 ILLINOIS PLUMBING CODE" LATEST EDITION.

**SANITARY SEWER SERVICE & POTABLE WATER SERVICE SEPARATION**

| Fox Metro Water Reclamation District | DESIGNED: FMWRD | REVISION: | 2023 |
|---|---|---|---|
| | DRAWN: KJ | Revised 2024 | NUNAR |
| | APPROVED:P.E. MF | Depth Note | NUNAR |
| | DATE: 05–28–00 | Note Revision | NUNAR |
| | SCALE: NTS | | |
| | SHEET 1 | CAD DWG. | REVISION: J |
| | OF 1 | JOB NO. | |




**NOTE**
★ SHOW OR 18 TO 10' BEYOND EACH SIDE–WALL OF THE STORM SEWER. IF CONFLICT AREA IS WITHIN 30' OF A MANHOLE, CONSTRUCT DR 18 TO SAID MANHOLE.

IN LIEU OF ABOVE STANDARD METHOD, DR 18 MAY BE INSTALLED MANHOLE TO MANHOLE.

**SANITARY SEWER CROSSING UNDER STORM SEWER**

| Fox Metro Water Reclamation District | DESIGNED: FMWRD | REVISION: | 2023 |
|---|---|---|---|
| | DRAWN: KJ | Dimension Change | NUNAR |
| | APPROVED:P.E. MF | Depth Note | NUNAR |
| | DATE: 05–15–00 | Rev. "NOTE" to "second size" mill 1/6/388 | |
| | SCALE: NTS | Added "or 18" to last bullet **12/6/ NUNAR | |
| | SHEET 1 | CAD DWG. | REVISION: J |
| | OF 1 | JOB NO. | |

GENERAL NOTES
FOR DEVELOPERS CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATERRECLAMATION DISTRICT
REV: 7/6/2023

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH "FOX METRO WATER RECLAMATION DISTRICT SEWER USE ORDINANCE NO. 885", THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", AND "77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE", LATEST EDITION.

2. FINAL–APPROVED SET OF PLANS MUST BE KEPT ON THE JOB SITE. FAILURE TO DO SO MAY RESULT IN A FINE AND CAN BE CONSIDERED AS CAUSE TO STOP THE JOB.

3. CONTRACTORS FOR ALL SANITARY PUBLIC SEWER EXTENSION PROJECTS SHALL NOTIFY THE DISTRICT'S ENGINEERING DEPARTMENT TWENTY–FOUR (24) HOURS BEFORE THE START OF WORK. NOTIFICATION SHALL BE DONE VIA TELEPHONE AT (630) 301–6882 OR BY EMAIL AT SUBMITTALS@FOXMETRO.ORG.

4. FOR SERVICE CONNECTION INSPECTIONS, CALL 630–301–6811 BY 3:00 P.M. THE DAY BEFORE THE REQUESTED INSPECTION TIME.

5. TO PREVENT ANY POSSIBLE INFILTRATION, INFLOW, OR DEBRIS FROM ENTERING THE DOWNSTREAM SANITARY SYSTEM, A FACTORY–MADE PLUG SHALL BE PLACED IN THE MANHOLE BY THE CONTRACTOR, AS INDICATED ON THE FINAL–APPROVED PLANS. THE PLACEMENT OF THE PLUG(S) SHALL NOT INTERRUPT THE SERVICE OF ANY USER. THIS PLUG IS TO BE REMOVED ONLY UPON APPROVAL BY THE DISTRICT OR THE CITY/VILLAGE, AND ONLY AFTER ANY CONSTRUCTION DRAINAGE AND/OR DEBRIS HAS BEEN PROPERLY REMOVED. UNDER NO CIRCUMSTANCES IS OVERLAND SURFACE DRAINAGE ALLOWED TO DRAIN INTO THE SANITARY SYSTEM.

6. ALL SANITARY SEWERS SHALL BE TESTED BY SECTION 31–1.12 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", INCLUDING ALL MANHOLES SHALL BE VACUUM TESTED (MANHOLE TESTING WILL BE IN ACCORDANCE WITH ASTM–1244–93 OR IN ACCORDANCE WITH DISTRICT REQUIREMENTS). IN CASE OF TESTING SPECIFICATION CONFLICT, WHERE DEEPER MANHOLES ARE CONSTRUCTED, THE MORE STRINGENT REQUIREMENT WILL APPLY.

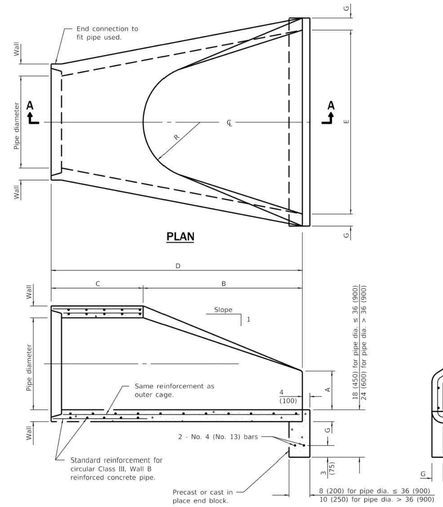
7. WHEN CONNECTING TO AN EXISTING PUBLIC SEWER WHERE A TEE OR WYE IS NOT PROVIDED, AN "INSERTA TEE" FITTING MUST BE INSTALLED. THE MINIMUM DISTANCE BETWEEN FITTINGS IS FOUR (4) FEET FROM CENTER TO CENTER.

8. INSTALLATION OF A TEE/WYE ON AN EXISTING MAIN IS PROHIBITED. THE ANGLE OF ANY NEW CONNECTION SHALL NOT EXCEED 1/1 OR 45 DEGREES.

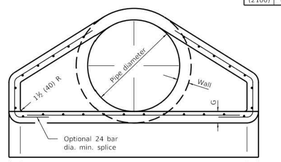
9. ONLY "INFI–SHIELD", "ADAPTOR–SEAL", CRETEX X–85, AND "WRAPID SEAL" OR APPROVED EQUAL CHIMNEY SEALS SHALL BE INSTALLED ON ALL MANHOLES.

10.ONLY PVC TRANSITION FITTINGS SHALL BE USED IN ALL NEW CONSTRUCTION WHEN JOINING PVC PIPES THAT ARE DAMAGED, DISTURBED DURING CONSTRUCTION, OR HAVE DIFFERENT OUTSIDE DIAMETERS. REFER TO FOX METRO'S "MANHOLE/SEWER PIPE SPECIFICATIONS" FOR INFORMATION RELATING

NOTE: IDOT DETAILS ARE NOT TO SCALE ON THIS SHEET.




SECTION A-A




END VIEW

| 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'-0½" (1.241 m) | 6'-0½" (1.851 m) | 24 (610) | 2 (51) | 9 (229) | 1:2.4 |
| 15 (375) | 740 (335) | 2½ (57) | 6 (152) | 27 (686) | 3'-10" (1.168 m) | 6'-1" (1.854 m) | 30 (762) | 2½ (57) | 11 (280) | 1:2.4 |
| 18 (450) | 990 (450) | 2½ (64) | 9 (229) | 27 (686) | 3'-10" (1.168 m) | 6'-1" (1.854 m) | 36 (914) | 2½ (64) | 12 (305) | 1:2.4 |
| 21 (525) | 1280 (580) | 2½ (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) | 25½ (648) | 6'-1½" (1.867 m) | 4'-6" (1.372 m) | 3½ (83) | 14½ (368) | 1:2.4 |
| 30 (750) | 2190 (995) | 3½ (89) | 12 (305) | 4'-6" (1.375 m) | 19½ (502) | 6'-1½" (1.874 m) | 5'-0" (1.524 m) | 3½ (89) | 15 (381) | 1:2.5 |
| 33 (825) | 3200 (1450) | 3½ (95) | 13½ (343) | 4'-10½" (1.486 m) | 39½ (997) | 8'-1½" (2.483 m) | 5'-6" (1.676 m) | 3½ (95) | 17½ (445) | 1:2.5 |
| 36 (900) | 4100 (1860) | 4 (102) | 15 (381) | 5'-3" (1.6 m) | 34½ (883) | 8'-1½" (2.483 m) | 6'-0" (1.829 m) | 4 (102) | 20 (508) | 1:2.5 |
| 42 (1050) | 5380 (2440) | 4½ (114) | 21 (533) | 5'-3" (1.6 m) | 35 (889) | 8'-2" (2.489 m) | 6'-6" (1.981 m) | 4½ (114) | 22 (559) | 1:2.5 |
| 48 (1200) | 5 (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'-5" (1.651 m) | 35 (889) | 8'-4" (2.54 m) | 7'-6" (2.286 m) | 5½ (140) | 24 (610) | 1:2.0 |
| 60 (1500) | 8730 (3960) | 6 (152) | 35 (889) | 5'-0" (1.524 m) | 39 (991) | 8'-3" (2.515 m) | 8'-0" (2.438 m) | 5 (127) | " | 1:1.9 |
| 66 (1650) | 10710 (4860) | 6½ (165) | 30 (762) | 6'-0" (1.829 m) | 27 (686) | 8'-3" (2.515 m) | 8'-6" (2.591 m) | 5½ (140) | " | 1:1.7 |
| 72 (1800) | 12520 (5680) | 7 (178) | 36 (914) | 6'-6" (1.981 m) | 21 (533) | 8'-3" (2.514 m) | 9'-0" (2.743 m) | 6 (152 | " | 1:1.8 |
| 78 (1950) | 14770 (6700) | 7½ (191) | 36 (914) | 7'-6" (2.286 m) | 21 (533) | 9'-3" (2.819 m) | 9'-6" (2.896 m) | 6½ (165) | " | 1:1.8 |
| 84 (2100) | 18160 (8240) | 8 (203) | 36 (914) | 7'-6½" (2.299 m) | 21 (533) | 9'-3½" (2.832 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).

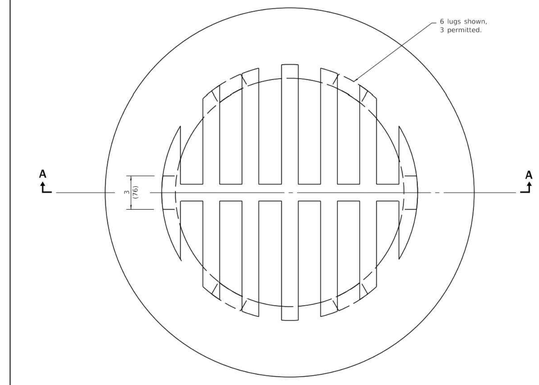
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2011 — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTB 1-1-11

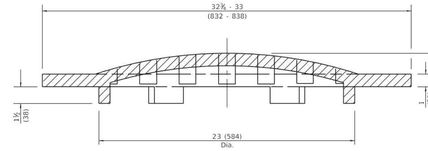
| DATE | REVISIONS |
|---|---|
| 1-1-11 | Clarified ref. to pipe dia. |
| | on Section A-A. Changed |
| | 'inner' to 'outer' cage ref. |
| 1-1-09 | Switched units to |
| | English (metric). |

# PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03




CAST GRATE




SECTION A-A

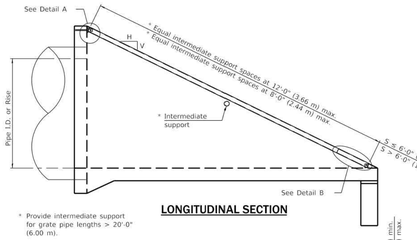
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2015 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTB 1-1-15

| DATE | REVISIONS |
|---|---|
| 1-1-15 | Revised dimensions. |
| | |
| | |
| 1-1-09 | Switched units to |
| | English (metric). |

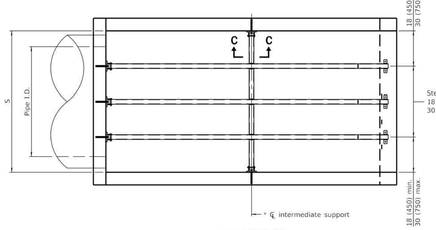
# GRATE TYPE 8

STANDARD 604036-03

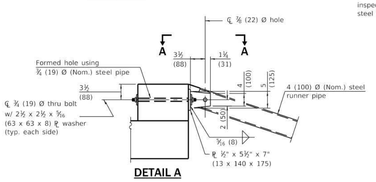



LONGITUDINAL SECTION

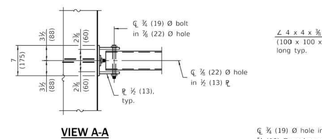
* Provide intermediate support for grate pipe lengths > 20'-0" (6.00 m).



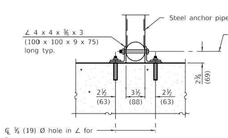

PLAN VIEW



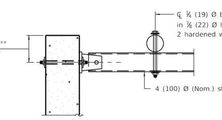

DETAIL A




VIEW A-A

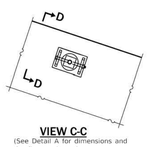



SECTION B-B



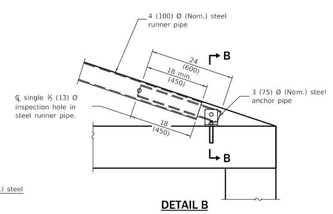

SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6 (150) measured horizontally from any vertical joints necessary for construction of the culvert end section.




VIEW C-C

(See Detail A for dimensions and details not shown.)




DETAIL B

## GENERAL NOTES

This standard shall only be used on concrete end sections not skewed more than ± 15 degrees with roadway.

The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1½ (38) unless noted otherwise.

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

Illinois Department of Transportation
APPROVED January 1, 2018 — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2018 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTB 1-1-18

| DATE | REVISIONS |
|---|---|
| 1-1-18 | Corrected value in elliptical |
| | pipe table. Renamed standard. |
| | |
| 4-1-16 | Corrected typo. |
| | |
| | |

# TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS

(Sheet 1 of 2)

STANDARD 542311-07

## PIPE-GRATE SCHEDULE FOR PIPE CULVERT END SECTIONS

| Pipe I.D. | Slope of End Section | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1:3 | | | 1:4 | | | 1:6 | | |
| | Main Pipe No. / Length | Int. Support No. / Length | Total Length of Pipe | Main Pipe No. / Length | Int. support No. / Length | Total Length of Pipe | Main Pipe No. / Length | Int. Support No. / Length | Total Length of Pipe |
| 27 (675) | 1 @ 9'-8" 1 @ (2.95 m) | N/A | 9'-8" (2.95 m) | 1 @ 12'-11" 1 @ (3.94 m) | N/A | 12'-11" (3.94 m) | 1 @ 19'-7" 1 @ (5.97 m) | N/A | 19'-7" (5.97 m) |
| 30 (750) | 1 @ 11'-4" 1 @ (3.43 m) | N/A | 11'-4" (3.43 m) | 1 @ 14'-10" 1 @ (4.52 m) | N/A | 14'-10" (4.52 m) | 1 @ 21'-10" 1 @ (6.65 m) | 1 @ 3'-6 1 @ 1.07 m) | 25'-4" (7.72 m) |
| 33 (825) | 1 @ 12'-1" 1 @ (3.68 m) | N/A | 12'-1" (3.68 m) | 1 @ 15'-10" 1 @ (4.83 m) | N/A | 15'-10" (4.83 m) | 1 @ 23'-5" 1 @ (7.14 m) | 1 @ 3'-7" 1 @ (1.09 m) | 27'-0" (8.23 m) |
| 36 (900) | 1 @ 12'-10" 1 @ (3.91 m) | N/A | 12'-10" (3.91 m) | 1 @ 16'-10" 1 @ (5.13 m) | N/A | 16'-10" (5.13 m) | 1 @ 24'-11" 1 @ (7.59 m) | 2 @ 3'-11" 2 @ (1.19 m) | 32'-9" (9.97 m) |
| 42 (1050) | 2 @ 14'-9" 2 @ (4.50 m) | N/A | 29'-6" (9.00 m) | 2 @ 19'-3" 2 @ (5.87 m) | N/A | 38'-6" (11.74 m) | 2 @ 28'-6" 2 @ (8.69 m) | 2 @ 4'-7" 2 @ (1.40 m) | 66'-2" (20.18 m) |
| 48 (1200) | 2 @ 16'-4" 2 @ (4.98 m) | N/A | 32'-8" (9.96 m) | 2 @ 21'-4" 2 @ (6.50 m) | 1 @ 5'-1" 1 @ (1.55 m) | 47'-9" (14.55 m) | 2 @ 31'-6" 2 @ (9.60 m) | 2 @ 5'-3" 2 @ (1.55 m) | 73'-2" (22.30 m) |
| 54 (1350) | 2 @ 18'-2" 2 @ (5.54 m) | N/A | 36'-4" (11.08 m) | 2 @ 23'-9" 2 @ (7.24 m) | 2 @ 5'-9" 2 @ (1.75 m) | 59'-0" (16.23 m) | 2 @ 35'-1 2 @ (10.69 m) | 4 @ 5'-9" 4 @ (1.75 m) | 93'-2" (28.38 m) |
| 60 (1500) | 2 @ 19'-9" 2 @ (6.02 m) | N/A | 39'-6" (12.04 m) | 2 @ 25'-10" 2 @ (7.87 m) | 3 @ 6'-3" 3 @ (1.91 m) | 70'-5" (21.47 m) | 2 @ 38'-1" 2 @ (11.61 m) | 4 @ 6'-3" 4 @ (1.91 m) | 101'-2" (30.86 m) |
| 66 (1650) | 2 @ 21'-7" 2 @ (6.58 m) | 2 @ 6'-11" 2 @ (2.11 m) | 57'-0" (17.38 m) | 2 @ 28'-2" 2 @ (8.59 m) | 3 @ 6'-11" 3 @ (2.11 m) | 77'-1" (23.51 m) | 2 @ 41'-11" 2 @ (12.78 m) | 5 @ 6'-11" 5 @ (2.11 m) | 127'-5" (36.11 m) |
| 72 (1800) | 3 @ 23'-2" 3 @ (7.06 m) | 2 @ 7'-5" 2 @ (2.26 m) | 84'-4" (25.70 m) | 3 @ 30'-3" 3 @ (9.22 m) | 3 @ 7'-5" 3 @ (2.26 m) | 113'-0" (34.44 m) | 3 @ 44'-8" 3 @ (13.61 m) | 5 @ 7'-5" 5 @ (2.26 m) | 171'-1" (52.13 m) |
| 78 (1950) | 3 @ 25'-0" 3 @ (7.62 m) | 3 @ 8'-1" 3 @ (2.46 m) | 99'-3" (30.24 m) | 3 @ 32'-8" 3 @ (9.96 m) | 4 @ 8'-1" 4 @ (2.46 m) | 130'-4" (39.72 m) | 3 @ 48'-3" 3 @ (14.71 m) | 6 @ 8'-1" 6 @ (2.46 m) | 193'-3" (58.89 m) |
| 84 (2100) | 3 @ 26'-3" 3 @ (8.10 m) | 3 @ 8'-7" 3 @ (2.62 m) | 105'-6" (32.16 m) | 3 @ 34'-9" 3 @ (10.59 m) | 4 @ 8'-7" 4 @ (2.62 m) | 138'-7" (42.25 m) | 3 @ 51'-3" 3 @ (15.62 m) | 6 @ 8'-7" 6 @ (2.62 m) | 206'-3" (62.38 m) |

## PIPE-GRATE SCHEDULE FOR ELLIPTICAL PIPE CULVERT END SECTIONS

| Pipe I.D. (Equiv. Round) | Slope of End Section | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1:3 | | | 1:4 | | | 1:6 | | |
| | Main Pipe No. / Length | Int. Support No. / Length | Total Length of Pipe | Main Pipe No. / Length | Int. Support No. / Length | Total Length of Pipe | Main Pipe No. / Length | Int. Support No. / Length | Total Length of Pipe |
| 21 (525) | 1 @ 8'-2" 1 @ (2.49 m) | N/A | 8'-2" (2.49 m) | 1 @ 11'-2" 1 @ (3.40 m) | N/A | 11'-2" (3.40 m) | 1 @ 17'-5" 1 @ (5.31 m) | N/A | 17'-5" (5.31 m) |
| 24 (600) | 1 @ 8'-2" 1 @ (2.49 m) | N/A | 8'-2" (2.49 m) | 1 @ 11'-2" 1 @ (3.40 m) | N/A | 11'-2" (3.40 m) | 1 @ 17'-5" 1 @ (5.31 m) | N/A | 17'-5" (5.31 m) |
| 27 (675) | 1 @ 8'-11" 1 @ (2.72 m) | N/A | 8'-11" (2.72 m) | 1 @ 12'-2" 1 @ (3.71 m) | N/A | 12'-2" (3.71 m) | 1 @ 18'-11" 1 @ (5.77 m) | N/A | 18'-11" (5.77 m) |
| 30 (750) | 1 @ 9'-5" 1 @ (2.87 m) | N/A | 9'-5" (2.87 m) | 1 @ 12'-11" 1 @ (3.94 m) | N/A | 12'-11" (3.94 m) | 1 @ 19'-11" 1 @ (6.07 m) | N/A | 19'-11" (6.07 m) |
| 36 (900) | 2 @ 11'-0" 2 @ (3.35 m) | N/A | 22'-0" (6.70 m) | 2 @ 14'-11" 2 @ (4.55 m) | N/A | 29'-10" (9.10 m) | 2 @ 22'-11" 2 @ (6.99 m) | 1 @ 4'-7" 1 @ (1.40 m) | 50'-5" (15.38 m) |
| 42 (1050) | 2 @ 12'-4" 2 @ (3.76 m) | N/A | 24'-8" (7.52 m) | 2 @ 16'-8" 2 @ (5.08 m) | N/A | 33'-4" (10.16 m) | 2 @ 25'-6" 2 @ (7.77 m) | 2 @ 5'-5" 2 @ (1.65 m) | 61'-10" (18.84 m) |
| 48 (1200) | 2 @ 13'-8" 2 @ (4.17 m) | N/A | 27'-4" (8.34 m) | 2 @ 18'-5" 2 @ (5.61 m) | N/A | 36'-10" (11.22 m) | 2 @ 28'-0" 2 @ (8.53 m) | 3 @ 6'-1" 3 @ (1.85 m) | 74'-3" (22.61 m) |
| 54 (1350) | 2 @ 15'-0" 2 @ (4.75 m) | N/A | 30'-0" (9.50 m) | 2 @ 20'-1" 2 @ (6.12 m) | 2 @ 6'-9" 2 @ (2.06 m) | 53'-8" (16.36 m) | 2 @ 30'-7" 2 @ (9.32 m) | 3 @ 6'-9" 3 @ (2.06 m) | 81'-5" (24.82 m) |
| 60 (1500) | 3 @ 16'-7" 3 @ (5.05 m) | N/A | 49'-9" (15.15 m) | 3 @ 22'-2" 3 @ (6.76 m) | 2 @ 7'-7" 2 @ (2.31 m) | 81'-0" (24.90 m) | 3 @ 33'-7" 3 @ (10.24 m) | 4 @ 7'-7" 4 @ (2.31 m) | 131'-1" (39.96 m) |
| 66 (1650) | 3 @ 17'-11" 3 @ (5.46 m) | N/A | 53'-9" (16.38 m) | 3 @ 23'-11" 3 @ (7.29 m) | 2 @ 8'-3" 2 @ (2.51 m) | 88'-3" (26.89 m) | 3 @ 36'-2" 3 @ (11.02 m) | 4 @ 8'-3" 4 @ (2.51 m) | 141'-6" (43.10 m) |
| 72 (1800) | 3 @ 19'-6" 3 @ (5.94 m) | N/A | 58'-6" (17.82 m) | 3 @ 25'-11" 3 @ (7.90 m) | 3 @ 8'-11" 3 @ (2.72 m) | 104'-6" (31.86 m) | 3 @ 39'-2" 3 @ (11.94 m) | 4 @ 8'-11" 4 @ (2.72 m) | 153'-2" (46.70 m) |

Illinois Department of Transportation
APPROVED January 1, 2018 — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2018 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTB 1-1-18

# TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS

(Sheet 2 of 2)

STANDARD 542311-07

© 2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING
Civil Engineers • Surveyors • Water Resource Engineers • Urban & Visioneering Engineers
Environmental Scientists • Landscape Architects • Transportation Engineers

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
/ PEPPER MILL PARTNERS, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHARDSON, P.E.
(630) 772-2073

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
IDOT CONSTRUCTION DETAILS

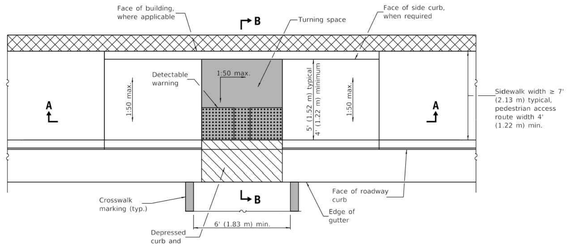
NOT FOR CONSTRUCTION - FOR REVIEW ONLY

PROJ. MGR.: JMI
PROJ. ASSOC.: IAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.

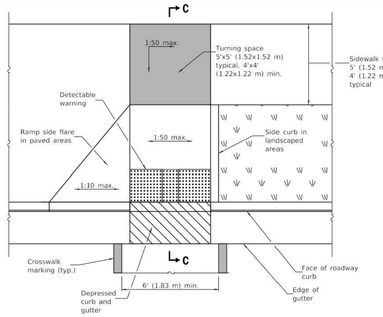
SHEET
27 OF 30
PUL.AUIL01

January 9, 2024 - 18:19 Dwg Name: P:\Autodit_LINCOLN CROSSING SOUTH\Work\Eng\Plan\Drawings\Proj. Set\46-53 - CONSTRUCTION DETAILS.dwg Updated By: ZWeber

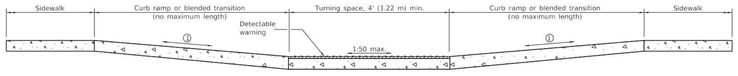
NOTE: IDOT DETAILS ARE NOT TO SCALE ON THIS SHEET.




**PARALLEL MID-BLOCK CURB RAMP**

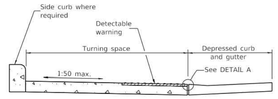



**PERPENDICULAR MID-BLOCK CURB RAMP**

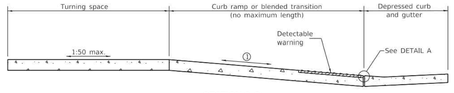



**SECTION A-A**

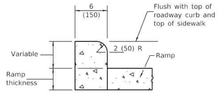
① The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.




**SECTION B-B**




**SECTION C-C**




**SIDE CURB DETAIL**

**DETAIL A**

## GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in. width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

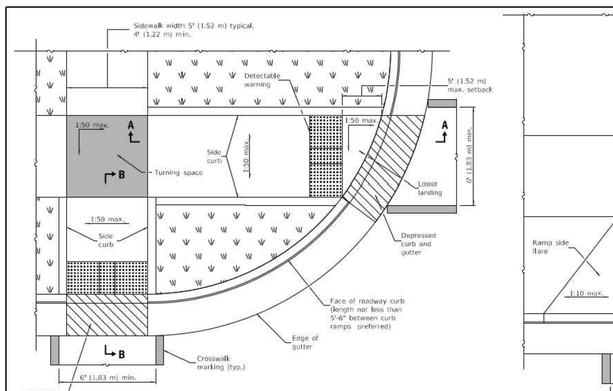
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

BOARD APPROVAL DATE

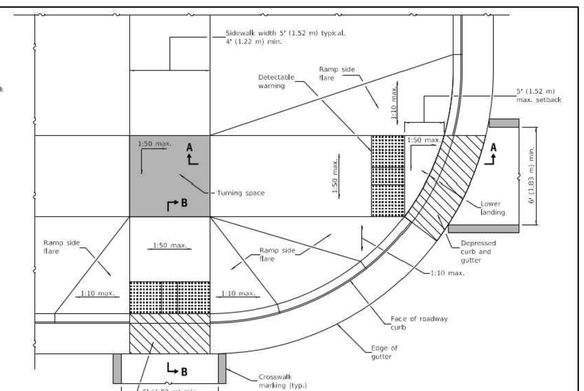
| DATE | REVISIONS |
|---|---|
| 1-1-19 | Removed upper landing, added |
| | blended transitions and detectable |
| | warning tolerances. |
| 1-1-18 | Omitted diagonal slope at |
| | turning spaces and upper |
| | landings. |

# MID-BLOCK CURB RAMPS FOR SIDEWALKS

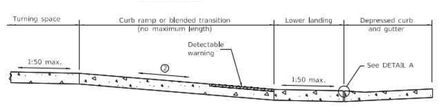
**STANDARD 424016-05**




**RAMPS IN LANDSCAPED AREA**
**SETBACK ≤ 5'**

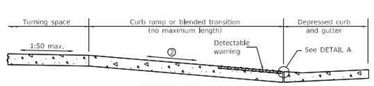



**RAMPS IN PAVED AREA**
**SETBACK ≤ 5'**



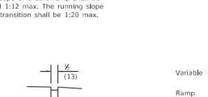

**SECTION A-A**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.




**SECTION B-B**

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.




**SIDE CURB DETAIL**




**DETAIL A**

See Sheet 2 for GENERAL NOTES.

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

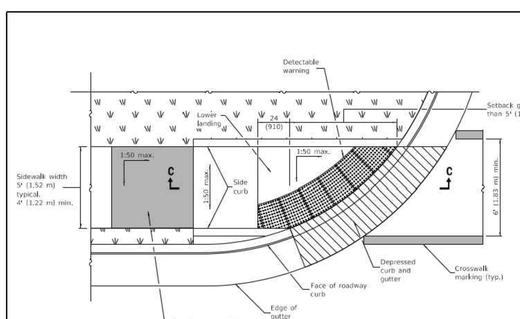
BOARD APPROVAL DATE

| DATE | REVISIONS |
|---|---|
| 1-1-19 | Removed "15-foot rule", added |
| | "Blended transitions" and placement |
| | tolerances for detectable warnings. |
| 1-1-18 | Omitted diagonal slope at |
| | turning spaces and lower |
| | landings. |

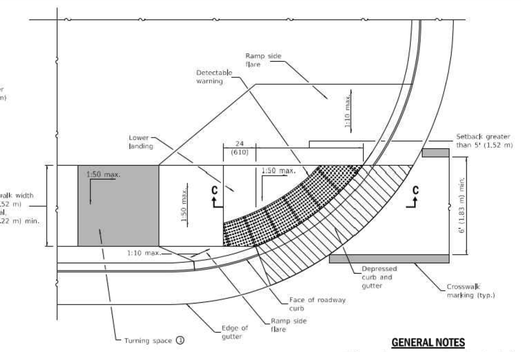
# PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 1 of 2)

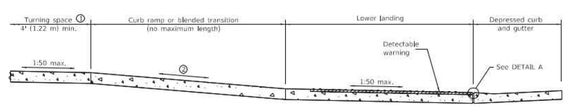
**STANDARD 424001-11**




**RAMP IN LANDSCAPED AREA**
**SETBACK > 5'**




**RAMP IN PAVED AREA**
**SETBACK > 5'**




**SECTION C-C**

① This turning space not required for blended transitions.

② The running slope of a curb ramp shall be 1:20 min. and 1:12 max. The running slope of a blended transition shall be 1:20 max.

## GENERAL NOTES

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

Where the turning space is constrained on a side opposite a ramp, the minimum length of the turning space in the direction of the ramp-run shall be 5' (1.52 m).

Where 1:50 maximum slope is shown, 1:64 is preferred.

Detectable warnings are shown in their ideal locations but the following placement tolerances are allowed.

Side Border - Detectable warnings should extend the full width of the walking surface (excluding flared sides) but a border along each side up to 2 in. (50 mm) in width is allowed.

Curb Set-Back - Detectable warnings located at the back of curb should closely align with the curb but a gap up to 6 in. (150 mm) behind the curb is allowed.

See Standard 606001 for details of depressed curb adjacent to curb ramp.

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

Illinois Department of Transportation

PASSED January 1, 2019
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT

BOARD APPROVAL DATE

# PERPENDICULAR CURB RAMPS FOR SIDEWALKS

(Sheet 2 of 2)

**STANDARD 424001-11**

DRAWN BY | REVISIONS | DATE

Manhard CONSULTING

Civil Engineers • Surveyors • Water Resource Engineers • Urban & Wastewater Engineers
Construction Management • Landscape Architects • Land Planners • Water Resource Engineers

PROPOSED DEVELOPMENT FOR:
OWNER: LINCOLN PRAIRIE AURORA LLC
/ FETTER HOMES OF ILLINOIS, LLC
1900 E GOLF ROAD, SUITE 300
SCHAUMBURG, IL 60173
CONTACT: MATT RICHTER, P.E.
(630) 772-2973

LINCOLN CROSSING SOUTH
CITY OF AURORA, ILLINOIS
IDOT CONSTRUCTION DETAILS

PROJ. MGR.: JMI
PROJ. ASSOC.: JAP
DRAWN BY: RWP
DATE: 01/10/24
SCALE: N.T.S.

SHEET
28 OF 30
PUL.AUIL01

©2015 MANHARD CONSULTING, LTD. ALL RIGHTS RESERVED

NOT FOR CONSTRUCTION - FOR REVIEW ONLY

January 9, 2024 - 08:19 Dwg Name: P:\Projects\LINCOLN CROSSING SOUTH\Data\Final\Final Drawings\Plan Sets\24-03 - CONSTRUCTION DETAILS.dwg Updated By: RWeber

06-01-16

# MANHARD CONSULTING, LTD.
# STANDARD SPECIFICATIONS

**GENERAL CONDITIONS**

CONTRACTOR acknowledges and agrees that the use and reliance of these Plans and Specifications is sufficient consideration for CONTRACTOR'S covenants stated herein.

**DEFINITION OF TERMS**

a. "CLIENT" shall mean PULTE HOME COMPANY, LLC., which is the person or entity with whom Manhard Consulting, Ltd. has contracted with to prepare Civil Engineering PLANS and SPECIFICATIONS.

b. "ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project.

c. "PLANS and SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of the contract documents for the subject project.

d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS.

e. "JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit and/or review is required for any aspect of the subject project.

**INTENT OF THE PLANS AND SPECIFICATIONS**

The intent of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials, equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely determined so as to include minor items obviously required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component part. It is not intended, however, that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be supplied unless distinctly so noted. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

**INTERPRETATION OF PLANS AND SPECIFICATIONS**

a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and binding on all parties concerned.

b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction.

c. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omissions in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions are discovered.

**GOVERNING BODIES**

All works herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CLIENT and/or the CONTRACTOR shall immediately notify the ENGINEER in writing.

**LOCATION OF UNDERGROUND FACILITIES AND UTILITIES**

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities and utilities (including but not limited to water mains, sanitary sewers, storm sewers, electric, telephone, gas and cable TV lines), such information represents only the opinion of the ENGINEER as to the approximate location and elevation of such facilities and utilities. At the locations wherein detailed positions of these facilities and utilities become necessary to the new construction, including all points of connection, the CONTRACTOR shall furnish all labor and tools to verify or definitely establish the horizontal location, elevation, size and material (if appropriate) of the facilities and utilities. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to construction if any discrepancies in existing utility information or conflicts with existing utilities exist. The ENGINEER assumes no responsibility whatever with respect to the sufficiency or accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground facilities and utilities, nor the manner in which they are removed or adjusted.

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intent to begin construction and to verify the actual location of all such facilities and utilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or adjusting these facilities.

**UNSUITABLE SOILS**

The PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CLIENT or CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvement according to the line and grades shown on the PLANS.

**PROTECTION OF TREES**

All trees that are not to be removed shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT.

**NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES**

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., water, sewer, electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location and elevation of underground pipes, conduits or cables adjoining or crossing proposed construction.

**TRAFFIC CONTROL**

The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, require the CONTRACTOR to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. Emergency vehicle access shall be maintained at all times. Unless authorized by the CLIENT or CLIENT's construction representative, all existing access points shall be maintained at all times by the CONTRACTOR. The need for traffic control shall be anticipated by the CLIENT.

**WORK AREA**

The CONTRACTOR, his agents and employees and their employees and all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work area specified by the Client. The CONTRACTOR shall be solely liable for damage caused by him or his agents and employees and their equipment, machinery and vehicles on adjacent property or areas outside designated work areas.

**UTILITY POLES**

It shall be the responsibility of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of this contract. It is expressly understood that all work and costs connected with the maintenance of these utility poles, their temporary relocations, etc., shall be the responsibility of the CLIENT or the CONTRACTOR.

**RESTORATION**

It is the intent of these SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work, both inside and outside the Project, or when so directed by the CLIENT so that these areas will be restored as nearly as possible to their original condition or better, and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drain tiles, water mains, etc.

**CLEANING UP**

The CONTRACTOR shall at all times keep the premises free from accumulations of waste material or rubbish caused by his employees or work, and at the completion of the work he shall remove all his rubbish, tools, scaffolding and surplus materials and shall leave his work "broom clean" or its equivalent, unless more exactly specified.

**ROAD CLEANING**

The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall immediately remove said mud and/or debris.

**SAFETY AND PROTECTION**

The CONTRACTOR shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. The CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR's duties and responsibilities for safety and for protection of the work shall continue until such time as all work is completed and the CLIENT has notified CONTRACTOR that the work is acceptable. The duties of the ENGINEER do not include review of the adequacy of either the CONTRACTOR's or the general public's safety in, on, or near the construction site.

**HOLD HARMLESS**

To the fullest extent permitted by law, any CONTRACTOR; material supplier or other entity by use of these plans and specifications hereby waives any right of contribution and agrees to indemnify, defend, save and hold harmless the CLIENT and ENGINEER and its agents, employees and consultants from and against all manner of claims, causes, causes of action, damages, losses and expenses, including but not limited to, attorneys' fees arising out of, resulting from or in connection with the performance of any work, pursuant to or with respect to these plans and specifications. However, this indemnity shall not be construed to indemnify ENGINEER, its consultants, agents or employees against its own negligence.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage occurring by reason of the failure of or use or misuse of any hoist, riggings, blocking, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished or loaned by any part or entity, including any contractor; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity; (3) costs for time expended by the indemnified party and its employees, at its usual rates plus costs or travel, long distance telephone and reproduction of documents and (4) consequential damages.

In any and all claims against the CLIENT or ENGINEER or any of their agents or employees and consultants by any party, including any employee of the CONTRACTOR or any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount of type of damages, compensation or benefits payable by or for the CONTRACTOR or any Subcontractor under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts or any insurance maintained by CONTRACTOR or any Subcontractor or any other party.

**INSURANCE**

Any party using or relying on these plans, including any contractor, material supplier, or other entity shall obtain, (prior to commencing any work) general public liability insurance insuring against all damages and claims for any bodily injuries, death or property damage arising out of any work, including the construction work provided for in these plans, and shall name the CLIENT and ENGINEER and its consultants, agents and representatives as additional insureds under such insurance policy; provided that any party using or relying on these plans having obligations to maintain specific insurance by reason of any agreement with CLIENT or any CONTRACTOR or ENGINEER shall provide evidence and certificates of insurance as required by such contract or agreement. Such insurance must contain a clause stating that the insurance is primary coverage for ENGINEER and ENGINEER's other applicable coverage is considered secondary. Such insurance shall not limit any liability of any party providing work or services or providing materials.

**THIRD PARTY BENEFICIARY**

Manhard Consulting, Ltd., the ENGINEER, is intended to be a third party beneficiary of this willing agreement and requirement.

Note: These Specifications are for Northern Illinois.

## DETAILED SPECIFICATIONS

## I. DEMOLITION

The CONTRACTOR shall coordinate with respective utility companies prior to the removal and/or relocation of utilities. The CONTRACTOR shall coordinate with the utility company concerning portions of work which may be performed by the Utility Company's forces and any fees which are to be paid to the utility company for their services. The CONTRACTOR is responsible for paying for all fees and charges.

Should removal and/or relocation activities damage features indicated to remain, the CONTRACTOR shall provide new materials/structures in accordance with the contract documents. Except for materials designed to be relocated on this plan, all other construction materials shall be new.

Prior to demolition occurring, all erosion control devices are to be installed.

All existing utility lines and conduits located under proposed buildings shall be removed and properly backfilled. All utility lines and conduits located under drives, on-site roads, parking lots or sidewalks shall be filled with a flowable backfill and end plugged. All existing structures shall be removed. All existing utility lines located under landscape areas shall be left in place and plugged at all structures.

The CONTRACTOR is responsible for demolition, removal and disposal (in a location approved by all JURISDICTIONAL GOVERNING ENTITIES) of all structures, pads, walls, flumes, foundations, road, parking lots, drives, drainage structures, utilities, etc., such that the improvements shown on these plans can be constructed. All demolition work shall be in accordance with all applicable federal, state and local requirements. All facilities to be removed shall be undercut to suitable material and brought to grade with suitable compacted fill material per the specifications.

The CONTRACTOR is responsible for obtaining all permits required for demolition and disposal.

Electrical, telephone, cable, water, fiber optic cable and/or gas lines needing to be removed shall be coordinated by the CONTRACTOR with the affected utility company.

CONTRACTOR must protect the public at all times with fencing, barricades, enclosures, and other appropriate best management practices.

Continuous access shall be maintained for surrounding properties at all times during demolition.

All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by emergency vehicles.

The CONTRACTOR shall coordinate water main work with the Fire Department and the JURISDICTIONAL GOVERNING ENTITY to plan the proposed improvements and to ensure adequate fire protection is available to the facility and site throughout this specific work and through all phases of construction. CONTRACTOR shall be responsible for any required water main shut offs with the JURISDICTIONAL GOVERNING ENTITY during construction. Any costs associated with water main shut offs will be the responsibility of the CONTRACTOR and no extra compensation will be provided.

CONTRACTOR shall maintain all existing parking areas, sidewalks, drives, etc. clear and free from any construction activity and/or material to ensure easy and safe pedestrian and vehicular traffic to and from the site. CONTRACTOR shall coordinate/phase all construction activity within proximity of the building and utility interruptions with the facility manager to minimize disturbance and inconvenience to facility operations.

CONTRACTOR may limit saw-cut and pavement removal to only those areas where it is required as shown on these construction plans, however if any damage is incurred on any of the surrounding pavement, etc. the CONTRACTOR shall be responsible for ITS removal and repair.

Any existing wells encountered shall be exposed and sealed 3' below proposed finish grade by the CONTRACTOR in accordance with Section 920.120 (latest edition) of the Illinois Water Well Construction Code, Department of Public Health, and all applicable local rules and regulations. CONTRACTOR is responsible for obtaining all permits required by JURISDICTIONAL GOVERNMENTAL ENTITIES for abandoning existing wells.

Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with JURISDICTIONAL GOVERNING ENTITY regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of by the CONTRACTOR.

Voids left by any item removed under any proposed building, pavement, walk, etc. or within 24" thereof shall be filled and compacted with suitable materials by the CONTRACTOR.

The CONTRACTOR shall be responsible for the disconnection of utility services to the existing buildings prior to demolition of the buildings.

Any material containing asbestos found within existing structures shall be removed from the site and disposed of off-site by the CONTRACTOR in accordance with County, State and Federal regulations.

CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust control procedures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested.

The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation.

The locations of all existing utilities shown on this plan have been determined from the best information available and are given for the convenience of the CONTRACTOR and are not to be interpreted as the exact location, or as the only obstacles that may occur on the site. The ENGINEER assumes no responsibility for their accuracy. Prior to the start of any demolition activity, the CONTRACTOR shall notify the utility companies for location of existing utilities and shall verify existing conditions and proceed with caution around any anticipated features.

The CONTRACTOR is responsible for removing the existing irrigation system in the areas of proposed improvements. The contractor shall cap the existing irrigation system to remain such that the remaining system shall continue to function properly.

The parking lot shall be completed in sections such that it does not interrupt the facility operations. The CONTRACTOR shall coordinate with the construction manager for work to be performed.

## II. EARTHWORK

**STANDARDS**

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition except as modified below.

**SOIL BORING DATA**

Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location between borings. The CONTRACTOR is required to make its own borings, explorations and observations to determine soil and groundwater conditions.

**EARTHWORK CALCULATIONS AND CROSS SECTIONS**

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENGINEER are for information only and are provided without any guarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes. The ENGINEER makes no representation or guarantee regarding earthwork quantities or that the earthwork for this project will balance due to the varying field conditions, changing soil types, allowable construction to tolerances and construction methods that are beyond the control of the ENGINEER.

**CLEARING, GRUBBING AND TREE REMOVAL**

The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from damage.

**TOPSOIL STRIPPING**

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavements areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in stockpiles in locations as designated by the CLIENT.

**TOPSOIL RESPREAD**

Upon completion of roadway and/or parking lot improvements and installation of underground utilities a minimum of six inches (6") of topsoil shall be respread over all unpaved areas which have been disturbed by earthwork construction, except building pads and other designated areas, which shall be kept free from topsoil.

**SEEDING**

Upon completion of topsoil respread, the CONTRACTOR shall apply seed and fertilizer to all respread areas in accordance with IDOT standards or as designated on landscape drawings and specifications provided by the CLIENT.

**SODDING**

Upon completion of topsoil respread, the CONTRACTOR shall install sod to all areas designated on the plans or as designated on the landscape drawings and specifications provided by the CLIENT.

**EXCAVATION AND EMBANKMENT**

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS. All suitable excavated materials shall be hauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment.

Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches; handling of sewer spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section.

The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of the roads, building pads and parking lots within the work limits to lines & grades shown on the plans. He shall be responsible for obtaining compaction in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report or are approved by the CLIENT, and to use any method approved by the CLIENT necessary to obtain this compaction (i.e., soil fabric or any undercutting that may be required).

| Type Material | Percent Compaction Standard | Pavement & Floor Slabs | Grass Areas |
|---|---|---|---|
| Sandy Soils | Modified Proctor | 95% | 90% |
| Clayey Soils | Standard Proctor | 95% | 90% |

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be needed.

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if moisture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site.

For purposes of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer:

1. Any soil whose optimum moisture content exceeds 25%.
2. Any cohesive soil with an unconfined compressive strength of 1.5 tons per square foot or less.
3. Any soil whose silt content exceeds 60% by weight.
4. Any soil whose maximum density is less than 100 pounds per cubic foot.
5. Any soil containing organic, deleterious, or hazardous material.

Upon completion of excavation and shaping of the water retention areas intended to maintain a permanent pool of water, all silt seams and granular or sandy soils shall be removed to a minimum depth of three feet below the subgrade and replaced with an impermeable clay liner, including adjacent to and under storm sewer inlets and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes, and compaction thereof such that the lakes will maintain the proposed normal water level and that leakage does not exceed ½ inch per week.

Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in construction of the embankments.

The CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the JURISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in washed gravel or open storm sewer joints wrapped with fabric, the CONTRACTOR shall install the same.

During excavation and embankment, grades may be adjusted to achieve an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the CLIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise CLIENT if he believes that the earthwork will not balance.

It is the intent of these PLANS that storm waters falling on the site be diverted into sedimentation / lake / detention basins during construction. The CONTRACTOR shall construct and maintain any temporary ditches or swales that are necessary to accomplish this prior to beginning mass excavation.

**EROSION CONTROL**

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS.

**UNDERCUTTING DURING EARTHWORK**

If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the subgrade does not meet the standards set forth above, the CLIENT may require undercutting.

**MISCELLANEOUS CONTRACT ITEMS**

The following items may be required at the CLIENT's option, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY:

(1) **GEOTEXTILE FABRIC**

Geotextile fabric or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY where proper compaction of embankments over existing soft soils is not possible. Geotextile fabric shall meet the material specifications of and shall be installed in accordance with the above standards.

(2) **EROSION CONTROL BLANKET**

Erosion control blanket or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY for the stabilization of disturbed areas. Erosion control blanket shall meet the material specifications of and shall be installed in accordance with the above standards, the Illinois Urban Manual and/or the details shown on the PLANS.

## III. UNDERGROUND IMPROVEMENTS

## A. GENERAL

**STANDARDS**

All underground improvements shall be constructed and tested in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition. In the event of conflicting guidelines, the more restrictive shall govern.

**SELECTED GRANULAR BACKFILL**

Selected Granular Backfill shall be required for all sewer and water main trenches lying under existing or proposed streets, driveways, parking lots and within 24" thereof, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards.

**MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS**

All Manholes, Catch Basins, Inlets, and Valve Vaults shall be constructed of reinforced precast concrete ring construction with tongue and groove joints in conformance with the latest revision of ASTM designation C-478. All joints between sections and frames (except sanitary manholes, see Section IIIB Manholes, below) shall be sealed with mastic type bituminous jointing compound. CONTRACTOR shall remove all excess mastic on inside of structure and butter joints with mortar. Manholes are to have offset cones except that no cone shall be used on storm manholes 6'-0" deep or less in which case a reinforced concrete flat top section shall be used, and Valve Vaults shall have concentric cones. Only concrete adjustment rings will be permitted where necessary and shall be limited to two adjustment rings totaling not more than 8" in height. All manholes and catch basin steps shall be copolymer polypropylene with continuous ½" steel reinforcement as manufactured by MA Industries, or approved equal.

***AUGER/BORING AND CASING** - INTENTIONALLY OMITTED

***AUGER (OPEN BORE)** - INTENTIONALLY OMITTED

**HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS**

Horizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois Section 41-2.01A and 41-2.01B and Standard Drawing 18, 19, 20, 21, 22, 23 and 24.

**STRUCTURE ADJUSTMENTS**

Structures shall be adjusted to the finished grade as shown on PLANS.

## *B. SANITARY SEWERS AND APPURTENANCES

REFER TO THE FOX METRO W.R.D NOTES ON SHEET 30

## C. WATER MAINS AND APPURTENANCES

***WATER MAIN PIPE (3" AND LARGER)**

Water main pipe shall conform to the following:

(1) Ductile iron pipe shall be per ANSI/AWWA C151/A21.51, Thickness Class 52, minimum 150 psi working pressure, cement lined, single gasket, double sealing pipe in accordance with ANSI/AWWA C104/A21.4, with "push on" type joints. (2)

All watermain shall be zinc-coated and encased in polyethylene film in accordance with AWWA C-105-82.

Installation shall be in accordance with ANSI/AWWA C600 (Ductile Iron) or ANSI/AWWA C605 (PVC). All water main shall have mechanical joint cast iron or ductile iron fittings in accordance with ANSI/AWWA C110/A21.10 or compact ductile iron fittings in accordance with ANSI/AWWA C153/A21.53 with 250 psi working pressure.

Poured or monolithic concrete thrust blocks are required to brace all tees, plugs, caps, and bends of 11 1/4 degree deflection or greater. Minimum cover for all water mains, including services, shall be 5'-6" from the finished grade. Water main shall include bedding and backfilling.

**WATER VALVES**

All valves shall be resilient wedge gate valves conforming to the latest revision of ANSI/AWWA C515, with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves conforming to ANSI/AWWA C504 shall be constructed on all water mains 16" diameter and larger. Valves shall be non-rising stem and shall close by turning clockwise.

**VALVE VAULTS**

Valve vaults shall be constructed in conformance with Section IIIA Manholes, etc. above. Frame and lids shall be as approved by the JURISDICTIONAL GOVERNING ENTITY and shall be imprinted "CITY OF AURORA".

**VALVE BOXES**

Valve boxes shall be constructed in conformance with the standard detail. Valve boxes shall be cast iron extension screw type having lids imprinted with the letters "WATER".

**FIRE HYDRANTS**

Fire Hydrants shall be per JURISDICTIONAL GOVERNING ENTITY requirements. All fire hydrants shall be located as shown on the PLANS and shall be painted in a manner acceptable to the JURISDICTIONAL GOVERNING ENTITY after installation and shall be adjusted to final grade.

**TAP, STOPS AND BOX**

The CONTRACTOR shall determine from the JURISDICTIONAL GOVERNING ENTITY as to the exact style, type, and manufacture of corporation stops, ground key stops and services boxes preferred by the JURISDICTIONAL GOVERNING ENTITY and shall furnish same.

**SMALL WATER SERVICES (2" DIAMETER OR LESS)**

Water services shall be type K copper size as shown on PLANS, and constructed where shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted blue. The CONTRACTOR shall keep accurate records of tap locations and service box locations, as well as the service lengths and furnish same to CLIENT. Water services shall include bedding and backfilling.

**DISINFECTION**

Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples collected at sampling taps on at least two consecutive days following disinfection of the mains and copies of the said report submitted to the JURISDICTIONAL GOVERNING ENTITY and the CLIENT.

**PRESSURE TEST**

Allowable leakage, test pressure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY.

**PRESSURE CONNECTION TO EXISTING WATER MAIN**

The CONTRACTOR shall maintain system pressure on existing water main at all times. Existing water main shall be located and material excavated, and valve basin slab and main supports installed. The existing water main shall be cleaned and the exterior disinfected prior to installing the tapping tee (material to conform to AWWA C110). The tapping valve shall be installed (valve to conform to AWWA C500) and the pressure tap completed in accordance with the detail on the plans. Valve shall be constructed in conformance with the detail. Payment for pressure connection to existing water main shall include disinfection, tapping valve and tee, valve vault, frame and lid, bedding, and trench backfill.

**DRY CONNECTION TO EXISTING WATER MAIN**

A dry connection to existing water main shall include a connection to an existing water main stub where shown on the PLANS. The CONTRACTOR shall obtain approval of the JURISDICTIONAL GOVERNING ENTITY to shut down any main, including submittal of a schedule of the time of shut off and the time the line will be returned to service. All mains shut down that are opened to atmosphere must be disinfected prior to returning main into service.

**POLYETHYLENE ENCASEMENT (FOR DUCTILE IRON WATER MAIN ONLY)**

The CLIENT, or JURISDICTIONAL GOVERNING ENTITY may request that portions of the water main be enclosed in a polyethylene encasement in accordance with ANSI/AWWA C105/A21.5 should soil conditions so warrant its use.

**FOUNDATION, BEDDING AND HAUNCHING**

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on the detail.

**TRACER WIRE**

If the distance between valves when installing PVC pipe exceeds 1,000', tracer wire stations will be required for current induction. Tracer wire stations in grass areas will be Rhino TriView Flex Tracing Wire Stations or approved equal. In paved areas, they will be Valvco Tracer Wire Access Box for H2O loading or approved equal.

For open cut construction, using PVC pipe, a continuous, insulated, 12 gauge copper wire suitable for direct burial shall be taped on top of all piping to provide for locating following construction. This wire shall be securely terminated inside every valve vault on stainless steel hardware with an exposed lead of at least 12". A mechanically secure and soldered connection shall be provided for all wire splices. Where construction is by directional drilling or similar trenchless technology the tracer wire shall be 3/16" 7x19 PVC coated stainless steel aircraft cable with minimum breaking strength of 3,700 lbs (Lexco, Chicago, IL). Or Trace-Safe water blocking tracerwire RT series 19 gauge conductor (RT 1802W water, RT 1803W sewer).

Before final approval of any water main, there will be a monitored tracer wire continuity test in order to confirm proper installation of any tracer wire.

## D. STORM SEWERS AND APPURTENANCES

***STORM SEWER PIPE**

Storm sewer pipe shall conform to the following:

(1) Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation C76 with C361 or C443 flexible gasket joints, except that bituminous mastic joints may be used in grass areas.

(2) Polyvinyl Chloride (PVC) Pipe: ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 36-inch), rated SDR 35, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall be flexible elastomeric seals conforming to ASTM D3212.

(3) High Density Polyethylene Pipe (HDPE) Smooth Interior, AASHTO Designation M252 and M294, maximum diameter of 48 inches. Pipe joints and fittings shall be watertight gasketed joints. No band seals will be allowed. (Only permitted with Municipality Approval and/or when specifically indicated on PLANS).

Precast tees, bends, and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY.

Storm sewers may be constructed with reinforced concrete pipe using only flexible gasket joints (ASTM 361 or 443) for water main crossings.

Storm sewer shall include bedding and trench backfill.

**MANHOLES, INLETS & CATCH BASINS**

Manholes, Inlets and Catch Basins shall be constructed in conformance with Section IIIA Manholes, etc. above. The space between connecting pipes and the wall of the manhole shall be completely filled with non-shrink hydraulic cement mortar. Frames and lids shall be Neenah or approved equal unless specified otherwise on the PLANS. All frames and grates shall be provided such that the flange fully covers the opening plus 2" of the structure as a minimum. * Provide **"Vane"** Type frame & grate for all structures located in curb where gradient exceed 2.0%. Manholes shall include steps, frame & grate, bedding and trench backfill.

**FLARED END SECTION**

Flared end sections shall be pre-cast reinforced concrete flared end section with an end block cast separate as per the Illinois Department of Transportation Standard 542301 and shall be installed where shown on the PLANS. All flared end sections for storm sewers 12" in diameter and larger shall be installed with a grating per Standard 542311 and/or as detailed on the PLANS. Work shall include end block.

**RIP RAP**

Stone rip rap consisting of pieces of "A" quality stone 4" to 8" in diameter shall be furnished and installed in accordance with IDOT Specifications and shall be placed where shown on the plans, to a minimum thickness of 12" and a width as indicated on the plans. Broken concrete or concrete blocks will not be acceptable.

**FOUNDATION, BEDDING AND HAUNCHING**

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on the detail.

**UNDERDRAINS**

Pipe underdrains shall be corrugated flexible plastic pipe conforming to AASHTO Designation M252 perforated corrugated polyethylene pipe (PE) with a smooth interior of the diameter indicated on the PLANS and wrapped in a soil filter fabric supplied and installed by the CONTRACTOR. Perforations may be circular or slotted, but shall provide a minimum inlet area of 1.0 square inch per 2.0 linear feet of pipe. CONTRACTOR shall submit fabric and pipe catalogue Specifications for approval by the CLIENT. CONTRACTOR shall bed and backfill the underdrain in one of the following IDOT gradations of aggregate (CA-5, CA-7, CA-11, CA-14 or CA-15).

**MISCELLANEOUS**

(1) All existing field drainage tile or storm sewers encountered or damaged during construction shall either be restored to their original condition, properly rerouted and/or connected to the storm sewer system.

(2) Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or drainage tile shall not be connected to the sanitary sewer.

**CONNECTION FOR STORM SERVICE TO STORM MAIN**

Connections of storm sewer services to storm sewer mains should be made with manufactured tees when available. Availability of manufactured tees will be a function of the storm sewer material and pipe diameter size of the service sewer and main. If manufactured tees are not reasonably available, connections should be made in accordance with manufacturer's recommendations for all storm sewer other than concrete pipe. For concrete pipe connections without manufactured tees the storm sewer main shall be machine cored and the service sewer connected using non-shrink grout for the void between pipes. The service sewer shall be cut flush with the inside wall of the sewer main and not extend into the inside flow area of the main or otherwise impede flow.

## IV. ROADWAY AND PARKING LOT IMPROVEMENTS

**STANDARDS**

Work shall be completed in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition (hereinafter referred to collectively as the "Standard Specifications") except as modified below and except that payment will be defined as detailed in the contract documents between the CLIENT and the CONTRACTOR. Supplementing the Standard Specifications shall be the applicable sections of the latest editions of the "Supplemental Specifications and Recurring Special Provisions", the "Manual on Uniform Traffic Control Devices for Streets and Highways" and the Illinois Supplement thereto, (hereinafter referred to collectively as the "MUTCD"). Any references to "ENGINEER" in the "Standard Specifications" shall be interpreted as the CLIENT or CLIENT's Construction Representative.

**SUBGRADE PREPARATION**

The CONTRACTOR shall be responsible for all subgrade compaction and preparation to the lines and grades shown on the plans.

**AGGREGATE BASE COURSE TYPE 'B'**

Aggregate Base Course Type B shall be limited to CA-6 or CA-10 gradation. Aggregate base courses shall be proof rolled as outlined below.

**PROOF ROLL**

The CONTRACTOR shall proof roll the subgrade with either a 2-axle truck loaded to 27,000 lbs. Or a 3-axle truck loaded to 45,000 lbs. or as specified by the JURISDICTIONAL GOVERNING ENTITY. The CLIENT and JURISDICTIONAL GOVERNING ENTITY shall observe and approve the proof rolling of the subgrade and the base course. Proof rolling tolerances shall be a maximum deflection of 1" for the subgrade and ½" for the base course. The above criteria is intended as a maximum deflection standard and that proof rolling of a majority of the area will have less deflection than specified above. In any case of deficiency, the subgrade and/or base course shall be repaired and retested before proceeding with the pavement construction.

Pavement subgrade material shall not be removed, placed or disturbed after proof roll testing has been completed prior to the pavement construction. Additional testing will be required if the pavement subgrade is disturbed and/or material is removed from or placed on the pavement subgrade after proof rolling approval.

Trucks or heavy equipment shall not travel on any pavement subgrade after final testing prior to pavement construction.

**HOT-MIX ASPHALT BASE COURSE**

HMA Base Course shall meet the requirements of IDOT or N50 mix design as indicated and shown on the plans. The maximum amount of recycled asphalt pavement allowed shall be 30% in a N30 mix design and 25% in a N50 mix design.

**HOT-MIX ASPHALT BINDER AND SURFACE COURSE**

HMA binder and surface courses, shall be constructed to the compacted thickness as shown on the P

CONTRACTOR NOTICE
DEVELOPER CONSTRUCTION
FOX METRO WATER RECLAMATION DISTRICT
IMPORTANT — PLEASE READ!!
REV: 7/6/2023

THE FOLLOWING LIST REPRESENTS COSTLY PROBLEMS OR VIOLATIONS THAT COMMONLY OCCUR DURING OR AFTER CONSTRUCTION. OUR GOAL IS TO MAKE ALL PARTIES AWARE OF THESE PROBLEMS AND HOPEFULLY REDUCE UNNECESSARY DELAYS, EXPENSES, AND FINES.

TO PERFORM NEW CONSTRUCTION OR REPAIR WORK ON ANY PRIVATE SANITARY OR WATER SERVICE, THE FOLLOWING MUST BE COMPLETED BEFORE WORK MAY COMMENCE:

- A $25,000 LICENSE & PERMIT BOND MADE OUT TO "FOX METRO WATER RECLAMATION DISTRICT"MUST BE RECEIVED AND APPROVED BEFORE ANY NEW CONSTRUCTION OR REPAIR WORK. PLEASE INSTRUCT YOUR INSURANCE COMPANY TO CALL OUT THE WORK TO BE PERFORMED AS "SANITARY SEWER CONSTRUCTION"OR "SANITARY SEWER EXCAVATION".
- A DISTRICT PERMIT FOR NEW CONSTRUCTION OR A REPAIR PERMIT NEEDS TO BE ISSUED.
- AN INSPECTION IS REQUIRED BY THE DISTRICT. TO SAVE A $50 SAME-DAY INSPECTION FEE, PLEASE PROVIDE TWENTY-FOUR (24) HOUR NOTICE.

1. ALL PUBLIC SANITARY SEWER CONSTRUCTION MUST HAVE AN IEPA PERMIT AND PLAN APPROVAL LETTER ON FILE AT THE DISTRICT BEFORE COMMENCING CONSTRUCTION. TO VERIFY THIS, PLEASE PROVIDE OUR OFFICE WITH A 48-HOUR START NOTIFICATION.

2. TO PREVENT UNNECESSARY WATER, MUD, OR AGGREGATES FROM ENTERING INTO THE EXISTING SANITARY SYSTEM, ALL NEW SANITARY CONSTRUCTION MUST BE SECURELY PLUGGED AND MAINTAINED BY THE CONTRACTOR. THIS PLUG(S), OR PIPE FOR APPROVED PLAN, MAY ONLY BE REMOVED AFTER PERMISSION HAS BEEN OBTAINED FROM THE MUNICIPALITY OR THE DISTRICT. ALL CONSTRUCTION DRAINAGE MUST BE PROPERLY REMOVED FROM THE NEW SANITARY SEWER SYSTEM.

3. ALL NEWLY PROPOSED PRIVATE BUILDING SEWER CONSTRUCTION MUST HAVE A CONNECTION PERMIT FROM THE DISTRICT. IN ADDITION, THIS WORK SHALL BE INSPECTED BY THE DISTRICT. PLEASE CALL (630) 301-6811 BY 3:00 PM THE DAY BEFORE THE REQUESTED INSPECTION TIME. NO BUILDING SEWERS SHALL BE INSTALLED UNTIL ALL PROPOSED PUBLIC SEWERS HAVE BEEN TESTED AND APPROVED BY THE DISTRICT.

4. ALL DOMESTIC WATER SERVICE INSTALLATIONS (EXCEPT FOR THE VILLAGE OF OSWEGO AND THE CITY OF YORKVILLE) ARE TO BE INSPECTED BY THE DISTRICT. ANY FINAL CONNECTION(S) TO ANY BUILDING, MADE BY ANY PLUMBER OR EXCAVATOR, SHALL ALSO BE INSPECTED BY THE DISTRICT. DO NOT BACKFILL THIS CONNECTION UNTIL COMPLETED DISTRICT INSPECTION.

5. ALL SANITARY MANHOLES ARE TO BE SEALED (EXTERIOR OF CHIMNEY & BARRELS) AND VACUUM TESTED FROM THE TOP OF THE FRAME. ANY DISRUPTION OF THESE MANHOLES WILL BREAK THE SEAL(S), REQUIRING A COSTLY RESEALING AND RETESTING PROCESS. PLEASE STAY CLEAR OF ALL MANHOLES.

FOR QUESTIONS REGARDING PERMITTING AND CONSTRUCTION, CALL THE DISTRICTS ENGINEERING DEPARTMENT AT (630) 301-6882. FOR QUESTIONS REGARDING INSPECTIONS OR TO REPORT VIOLATIONS, OPEN MANHOLES, OR OTHER CONSTRUCTION ISSUES, PLEASE CALL (630) 301-6811.

GENERAL NOTES
FOR DEVELOPERS CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATERRECLAMATION DISTRICT
REV: 7/6/2023

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH "FOX METRO WATER RECLAMATION DISTRICT SEWER USE ORDINANCE NO. 885"; THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS"; AND "77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE", LATEST EDITION.

2. FINAL-APPROVED SET OF PLANS MUST BE KEPT ON THE JOB SITE. FAILURE TO DO SO MAY RESULT IN A FINE AND CAN BE CONSIDERED AS CAUSE TO STOP THE JOB.

3. CONTRACTORS FOR ALL SANITARY PUBLIC SEWER EXTENSION PROJECTS SHALL NOTIFY THE DISTRICTS ENGINEERING DEPARTMENT TWENTY-FOUR (24) HOURS BEFORE THE START OF WORK. NOTIFICATION SHALL BE DONE VIA TELEPHONE AT (630) 301-6882 OR BY EMAIL AT SUBMITTALS@FOXMETRO.ORG.

4. FOR SERVICE CONNECTION INSPECTIONS, CALL (630)-301-6811 BY 3:00 P.M. THE DAY BEFORE THE REQUESTED INSPECTION TIME.

5. TO PREVENT ANY POSSIBLE INFILTRATION, INFLOW, OR DEBRIS FROM ENTERING THE DOWNSTREAM SANITARY SYSTEM, A FACTORY-MADE PLUG SHALL BE PLACED IN THE MANHOLE BY THE CONTRACTOR, AS INDICATED ON THE FINAL-APPROVED PLANS. THE PLACEMENT OF THE PLUG(S) SHALL NOT INTERRUPT THE SERVICE OF ANY USER. THIS PLUG IS TO BE REMOVED ONLY UPON APPROVAL BY THE DISTRICT OR THE CITY/VILLAGE, AND ONLY AFTER ANY CONSTRUCTION DRAINAGE AND/OR DEBRIS HAS BEEN PROPERLY REMOVED. UNDER NO CIRCUMSTANCES IS OVERLAND SURFACE DRAINAGE DIVERTED INTO THE SANITARY SEWER SYSTEM.

6. ALL SANITARY SEWERS SHALL BE TESTED BY SECTION 31-1.12 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", INCLUDING ALL MANHOLES SHALL BE VACUUM TESTED (MANHOLE TESTING WILL BE IN ACCORDANCE WITH ASTM-1244-93 OR IN ACCORDANCE WITH DISTRICT REQUIREMENTS). IN CASE OF TESTING SPECIFICATION CONFLICT, WHERE DEEPER MANHOLES ARE CONSTRUCTED, THE MORE STRINGENT REQUIREMENT WILL APPLY.

7. WHEN CONNECTING TO AN EXISTING PUBLIC SEWER WHERE A TEE OR WYE IS NOT PROVIDED, AN "INSERTA TEE" FITTING MUST BE INSTALLED. THE MINIMUM DISTANCE BETWEEN FITTINGS IS FOUR (4) FEET FROM CENTER TO CENTER.

8. INSTALLATION OF A TEE/WYE ON AN EXISTING MAIN IS PROHIBITED. THE ANGLE OF ANY NEW CONNECTION SHALL NOT EXCEED 1/1 OR 45 DEGREES.

9. ONLY "NFI-SHIELD", "ADAPTOR-SEAL", CRETEX X-85, AND "WRAPID SEAL" OR APPROVED EQUAL CHIMNEY SEALS SHALL BE INSTALLED ON ALL MANHOLES.

10.ONLY PVC TRANSITION FITTINGS SHALL BE USED IN ALL NEW CONSTRUCTION WHEN JOINING PVC PIPES THAT ARE DAMAGED, DISTURBED DURING CONSTRUCTION, OR HAVE DIFFERENT OUTSIDE DIAMETERS. REFER TO FOX METRO'S "MANHOLE/SEWER PIPE SPECIFICATIONS" FOR INFORMATION RELATING TO REPAIRS OF MAINS DAMAGED DURING CONSTRUCTION.

11.ALL EXISTING SANITARY INTERCEPTOR (15" IN DIAMETER OR GREATER) MANHOLE FRAMES LOCATED WITHIN ANY PROPOSED DEVELOPMENT WILL BE REQUIRED TO BE ADJUSTED TO GRADE. UNDER NO CIRCUMSTANCES MAY THE VERTICAL HEIGHT OF THE ADJUSTING RINGS EXCEED EIGHT (8) INCHES (TWO TOTAL). EXTREME CARE SHOULD BE TAKEN WHEN WORKING NEAR ALL SANITARY MANHOLES.

12.APPROVED CAST IRON OR CONCRETE CLEANOUT ENCLOSURES ARE REQUIRED OVER THE TOP OF ALL CLEANOUT COVERS IN AREAS DEEMED NECESSARY BY THE DISTRICT.

13.DUCTILE IRON AND CAST-IRON PIPE ARE NOT ALLOWED FOR THE USE OF GRAVITY SEWERS IN THE DISTRICT.

14.LANDSCAPING WITHIN ANY DISTRICT EASEMENT IS PROHIBITED WITHOUT REVIEW AND SUBSEQUENT PLAN APPROVAL.

15.DISTRICT EASEMENTS SHALL BE GRADED SO THAT THE GROUND SURFACE DOES NOT EXCEED A SIX (6) PERCENT GRADIENT IN ALL DIRECTIONS.

16.ALL BUILDING DRAINS/SEWERS SHALL BE OVERHEAD OR "HUNG" THROUGH THE BASEMENT WALL OF ANY NEW BUILDING.

17.ALL SANITARY RISERS SHALL BE CONSTRUCTED TO A DEPTH OF NO GREATER THAN SIX (6) TO SEVEN (7) FEET AT THE RIGHT OF WAY/PROPERTY LINE. IF A CONFLICT ARISES BETWEEN A SANITARY SEWER AND A WATER LINE, IEPA WATER & SEWER SEPARATION REQUIREMENTS TAKE PRECEDENCE.

18.WHETHER ANY GREASE REMOVAL SYSTEM IS NEWLY CONSTRUCTED OR "RETROFITTED" TO AN EXISTING BUILDING, A MINIMUM OF 1% SLOPE AND 3.5" OF COVER FOR PIPES ARE REQUIRED.

19.MINIMUM DESIGN SLOPES SHALL BE 1.00% FOR SIX (6) INCH BUILDING SEWERS, .40% FOR EIGHT (8) INCH SEWERS, AND .28% FOR TEN (10) INCH SEWERS WITH ALL OTHER DESIGN SLOPES CONFORMING TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".

20.ALL MANHOLE BARREL SECTIONS (INCLUDING THOSE SECTIONS OF EXISTING MANHOLES THAT HAVE BEEN EXPOSED DURING CONSTRUCTION) SHALL BE REQUIRED TO BE EXTERNALLY SEALED WITH A "6" OR "8" WIDE (MIN.) WRAP MEETING THE REQUIREMENTS OF ASTM C-877, "TYPE II OR "TYPE III.

21.ALL SAGS, LEAKS, PIPE DEFECTS, OR OTHER RELATED ISSUES WITH ANY NEWLY TELEVISED SANITARY SEWER SHALL BE REPAIRED BY THE CONTRACTOR AT THE DISCRETION OF THE DISTRICT. APPROVAL OF REPAIRS WILL NEED TO BE CONFIRMED IN WRITING BY THE APPROPRIATE MUNICIPALITY, OR RE-TELEVISED BY THE DISTRICT. AT THE DISTRICT'S DISCRETION, CONNECTION PERMITS MAY BE WITHHELD IF CONFIRMATION OF COMPLETED REPAIRS CANNOT BE OBTAINED.

22.ANY CONTRACTOR, WHO CONSISTENTLY FAILS TO PERFORM BY THE DISTRICTS STANDARDS AND SPECIFICATIONS AS PROVIDED ON THE PLANS, MAY BE PROHIBITED FROM PERFORMING WORK IN THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO REVOKE OR DISALLOW ANY CONTRACTOR'S BOND.

23.THE DISTRICT SHALL TELEVISE ALL SEWERS EIGHT (8) INCHES IN DIAMETER OR GREATER. TO ACCESS EACH MANHOLE, THE DEVELOPER IS RESPONSIBLE FOR PROVIDING A SMOOTH, LEVEL AREA OF SUFFICIENT WIDTH ALONG THE SANITARY SEWER SYSTEM.

24.DURING TELEVISING, IF ANY NEWLY CONSTRUCTED PUBLIC SEWER REQUIRES "HEAVY CLEANING", ADDITIONAL CHARGES MAY BE INCURRED BY THE DEVELOPER.

25.FULL-SIZED CLEANOUTS ARE REQUIRED ON ALL BUILDING SEWERS.

FOX METRO WATER RECLAMATION DISTRICT
MANHOLE / SEWER PIPE MATERIALS AND INSTALLATION SPECIFICATIONS
FOR DEVELOPER CONSTRUCTION OF SANITARY SEWERS
FOX METRO WATER RECLAMATION DISTRICT
REV: 7/6/2023

1. PIPE & FITTINGS

PIPES AND FITTINGS USED IN SANITARY SEWER CONSTRUCTION SHALL BE POLYVINYL CHLORIDE (PVC). PVC PIPE AND FITTINGS DATED OVER ONE YEAR OLD SHALL NOT BE PERMITTED FOR USE. NO SOLVENT-WELDED JOINTS SHALL BE ALLOWED OUTSIDE OF THE FOUNDATION WALL OF ANY BUILDING.

THE TYPES OF PVC PIPE AND FITTINGS THAT SHALL BE USED IN THE DISTRICT INCLUDE:
- POLY VINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS (ASTM -SDR SERIES): CONFORMING TO ASTM NUMBERS D-1784 (CELL CLASSIFICATION), D-3034, D-3212 (JOINT SPEC), AND F-477 (GASKETS).
- POLY VINYL CHLORIDE (PVC) PRESSURE RATED PIPE AND FITTINGS (ASTM – SDR SERIES): CONFORMING TO ASTM NUMBERS D-1784 (CELL CLASSIFICATION), D-2241, D-3139 (JOINT SPEC), AND F-477 (GASKETS).
- POLY VINYL CHLORIDE (PVC) PRESSURE RATED PIPE AND FITTINGS (AWWA DR-SERIES): CONFORMING TO AWWA C-900 AND ASTM NUMBERS D-1784 (CELL CLASSIFICATION), D-3139 (JOINT SPEC), F-477 & F-913 (GASKETS).

ALL PVC PLASTIC PIPE AND FITTINGS SHALL HAVE A CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM D1784 AND SHALL HAVE MINIMUM PIPE STIFFNESS AS SHOWN BELOW IN TABLE 1. THE REQUIRED STANDARD DIMENSION RATIO (SDR) OR DIMENSION RATIO (DR) FOR PVC PIPE AND FITTINGS SHALL BE SELECTED BASED ON THE DEPTH OF COVER, AS ALSO SHOWN IN THE TABLE BELOW:

TABLE 1

| DEPTH OF COVER | PIPE DIAMETER | MINIMUM THICKNESS | NATIONAL STANDARD | MINIMUM PIPE STIFFNESS |
|---|---|---|---|---|
| HOWEVER 0'-20' | 8"-12" | SDR 35 | ASTM D-3034 | 115 |
| *0'-20' | *4"-12" | *SDR 21 | *ASTM D-2241 | *335 |
| 0'-20' & UP | 8"-24" | DR 18 | AWWA C-900 | 368 |

*4/5/2023: PER A NATION-WIDE SHORTAGE OF D-2241 PVC, THIS MIGHT NOT BE AVAILABLE. WHERE SDR 21 D-2241 IS NOT AVAILABLE, DR 18 C-900 PIPE SHALL BE USED AT DEPTHS > 20'.

FITTINGS IN SIZES THROUGH FOURTEEN (14) INCHES SHALL HAVE ELASTOMERIC JOINTS AND MINIMUM SOCKET DEPTHS AS SPECIFIED IN EACH RESPECTIVE SECTION SHOWN ABOVE. THE DISTRICT RESERVES THE RIGHT TO APPROVE/REJECT ALL PIPES AND FITTINGS ON A CASE-BY-CASE BASIS.

2. PIPE BEDDING MATERIAL, HAUNCHING, SUITABLE SOILS, AND TRENCH BACKFILL

BEDDING STONE SHALL BE THOROUGHLY HAUNCHED TO PROVIDE UNIFORM SUPPORT UNDER THE NEW PIPE. SAID BEDDING MATERIAL, AS OUTLINED IN ASTM D-2321, SHALL BE CERTIFIED BY THE MANUFACTURER AND APPROVED BY THE DISTRICT BEFORE INSTALLATION, AND POSSESS THE FOLLOWING CHARACTERISTICS:

- GRADATION: SHALL MEET THE IDOT GRADATION OF CA-7, CLASS 1A, OR ANY MATERIAL(S) PREAPPROVED BY THE DISTRICT DURING THE PLAN-REVIEW PROCESS (* SEE JUST BELOW).
- DESCRIPTION: SHALL BE CRUSHED STONE OR CRUSHED GRAVEL, *CONTAINING NO MORE THAN 5% FINE MATERIAL, AS PRODUCED BY MECHANICAL MEANS.
- PLASTICITY INDEX OF UNDISTURBED EARTH/TRENCH BASE SOIL: SHALL MEET A PLASTICITY INDEX OF 0 TO 4 PERCENT AS DETERMINED BY THE METHOD GIVEN IN AASHTO T 90.
- SPECIFIC GRAVITY OF UNDISTURBED (DRY) TRENCH BASE MATERIAL: SHALL HAVE A SPECIFIC GRAVITY OF GREATER THAN 2.45.
- INITIAL TRENCH BACKFILL MATERIAL: PLEASE REFER TO THE REQUIREMENTS OF THE MUNICIPALITY HAVING FIRST JURISDICTION OVER ALL APPLICABLE ABOVE OR BELOW-GRADE INFRASTRUCTURE.

LABORATORY TEST

THE DISTRICT RESERVES THE RIGHT TO REQUIRE A CONTRACTOR TO SUBMIT CERTIFIED COPIES OF ALL REPORTS OF TESTS CONDUCTED BY AN INDEPENDENT LABORATORY BEFORE THE INSTALLATION OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARD METHOD OF TEST FOR "EXTERNAL LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL-PLATE LOADING" PER ASTM D2412.

PIPE INSTALLATION AND FIELD TESTING

1. INSTALLATION

IF THE INVERT OF ANY OVERHEAD SEWER EXCEEDS TWO (2) FEET ABOVE THE BUILDING'S FOOTING, PLATE COMPACTION OF THE CA-7 CLASS 1A AGGREGATE SHALL BE REQUIRED IN TWELVE (12) INCH LIFTS.

TRENCH WIDTHS SHOULD BE STABLE OR SUPPORTED, AND PROVIDE A WIDTH SUFFICIENT, BUT NO GREATER THAN NECESSARY TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE HAUNCHING AND OTHER EMBEDMENT MATERIALS. THE MINIMUM TRENCH WIDTH SHALL BE 32" PLUS THE OUTSIDE DIAMETER OF THE PIPE (AND THE MAXIMUM TRENCH WIDTH SHALL BE 48"PLUS THE OUTSIDE DIAMETER OF THE PIPE.

PIPE SIZES SHALL BE A MINIMUM OF EIGHT (8) INCHES FOR PUBLIC SEWERS AND SIX (6) INCHES FOR BUILDING SEWERS.

PIPES SHALL BE LAID IN A MANNER THAT PROVIDES UNIFORM SUPPORT OVER THE ENTIRE LENGTH. NO BLOCKING OF ANY KIND SHALL BE USED TO ADJUST THE PIPE TO GRADE EXCEPT WHEN EMBEDMENT CONCRETE IS USED. THE BEDDING SHALL BE A MINIMUM OF SIX (6) INCHES IN DEPTH. THE BEDDING MATERIAL SHALL BE PLACED AND WORKED ALL AROUND THE PIPE BY HAND (HAUNCHED) TO PROVIDE UNIFORM SUPPORT, THEN AROUND AND OVER THE CROWN OF THE PIPE BY A MINIMUM OF TWELVE INCHES (12"). THE GRANULAR EMBEDMENT MATERIAL SHALL BE PLACED AND CONSOLIDATED ALONG THE FULL WIDTH OF THE TRENCH. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL THE PIPE IN SUCH A MANNER THAT THE DEFLECTION OF THE PIPE SHALL NOT EXCEED FIVE (5) PERCENT.

PVC TRANSITION FITTINGS SHALL BE USED IN ALL NEW CONSTRUCTION WHEN JOINING PVC PIPES OF DIFFERENT OUTSIDE DIMENSIONS, OR FOR PVC TO PVC CONNECTIONS, WHERE NO NECESSARY HUB/"AND OR BELL EXISTS.

ALL NEW CONSTRUCTION SERVICE CONNECTIONS TO NEW MAINS SHALL BE WITH A TEE/WYE FITTING WITH A SIX (6) INCH BRANCH. WHERE NO TEE/WYE EXISTS, AN INSERTA TEE BRAND FITTING SHALL BE REQUIRED. ALL CONNECTIONS TO THE MAIN SHALL BE CONSTRUCTED AT A (MAX.) FORTY-FIVE (45) DEGREE ANGLE OR | RISE/RUN PITCH.

CAST IRON ENCLOSURES SHALL BE REQUIRED FOR ALL SANITARY SEWER SERVICE CLEANOUTS LOCATED IN ANY PAVED SURFACE OR IN ANY LOCATION WHERE CLEANOUTS MAY BE DAMAGED BY HEAVY EQUIPMENT. ALL CLEANOUTS SHALL BE FULL-SIZED, BE LOCATED 5'FROM THE BUILDING'S FOUNDATION, AND SPACED NO GREATER THAN ONE HUNDRED (100) FEET APART.

EITHER 4"X 6"RUBBER OR NON-SHEAR COUPLINGS SHALL BE USED TO CONNECT THE BUILDING DRAIN TO THE BUILDING SEWER. IF USING A RUBBER FITTING, THE FOUR-INCH PIPE SHALL BE INSERTED SIX (6) TO TWELVE (12) INCHES INSIDE OF THE SIX-INCH BUILDING SEWER.

WHETHER ANY GREASE REMOVAL SYSTEM (GRS) IS NEWLY CONSTRUCTED OR RETROFITTED TO AN EXISTING BUILDING, ALL DISTRICT GUIDELINES ABOUT THE MINIMUM SLOPE AND COVER DEPTH FOR SANITARY CONSTRUCTION SHALL BE STRICTLY ADHERED TO.

ALL BUILDING DRAINS/SEWERS SHALL BE OVERHEAD OR "HUNG" THROUGH THE WALL OF ANY BASEMENT.

2. TESTING
BEFORE FINAL ACCEPTANCE, ALL PUBLIC SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.12 OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".

THE COST OF ALL TESTING SHALL BE BORNE BY THE DEVELOPER OR THE CONTRACTOR.

ALL PIPELINES SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC) AND SHALL BE SUBJECT TO AIR EXFILTRATION, DEFLECTION, AND CLOSED-CIRCUIT TELEVISING TESTING.

AIR EXFILTRATION TESTING SHALL BE PERFORMED USING THE STATE OF ILLINOIS'GUIDELINES AND SHALL BE DIRECTED AND WITNESSED BY AN INSPECTOR FOR THE MUNICIPALITY HAVING FIRST JURISDICTION.

THE DEFLECTION TEST SHALL BE PERFORMED USING AN APPROVED MANDREL OR OTHER DEVICE PERMITTED BY THE DISTRICT. TESTING SHALL OCCUR NO SOONER THAN THIRTY (30) DAYS AFTER BACKFILLING AND SHALL CONSIST OF MEASURING THE PIPE FOR VERTICAL RING DEFLECTION. MAXIMUM RING DEFLECTION OF THE PIPELINE UNDER LOAD SHALL BE LIMITED TO FIVE (5) PERCENT OF THE INTERNAL PIPE DIAMETER. ALL PIPES EXCEEDING THIS DEFLECTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY AND SHALL BE RE-LAID OR REPLACED BY THE CONTRACTOR AT THEIR SOLE EXPENSE.

ALL SANITARY SEWER (PUBLIC OR PRIVATE) WITH A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL BE TELEVISED BY THE DISTRICT. SAID TELEVISING WORK IS SCHEDULED ONCE ALL AIR & VACUUM TESTING HAS BEEN RECEIVED BY THE DISTRICT. ANY DEFECTS IN SAID SEWER SHALL BE EXCAVATED, THEN REPAIRED AT THE CONTRACTOR'S OR DEVELOPER'S EXPENSE BEFORE THE SEWER BEFORE CONSTRUCTING ROADS, CURBS, SIDEWALKS, OR ANY OTHER INFRASTRUCTURE, WHETHER IT IS ABOVE OR BELOW THE GROUND SURFACE. IT IS THE RESPONSIBILITY OF THE DISTRICT AND THE DEVELOPER'S ENGINEER TO CONTACT THE DISTRICT BEFORE INSTALLING ANY OF THESE UTILITIES OR INFRASTRUCTURE. REPAIRS TO DEFECTIVE SANITARY SEWERS SHALL BE PERFORMED REGARDLESS OF THE STATUS OF OTHER CONSTRUCTION OR EXTRANEOUS EXPENSES.

MANHOLE INSTALLATION AND FIELD TESTING

1. INSTALLATION

ALL MANHOLE CASTINGS, ADJUSTING RINGS, AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE. THE INSIDE BARREL SECTION OF THE MANHOLE, ADJUSTING RINGS, AND FRAME SHALL NOT BE MORTARED. HOWEVER, THE AREA BETWEEN THE PIPE AND FLOW CHANNEL SHALL BE FILLED WITH CEMENT MORTAR TO PROVIDE A SMOOTH FLOW SURFACE.

EACH MANHOLE CONE AND BARREL SECTION JOINT SHALL ALSO BE EXTERNALLY SEALED WITH A "6"OR "8"WIDE (MIN.) SEALING BAND OF RUBBER AND MASTIC (SEE "REPAIRS" BELOW). THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC (WITH A PROTECTIVE FILM), MEETING THE REQUIREMENTS OF ASTM C-877, "TYPE II OR "TYPE III.

PIPE CONNECTIONS TO ALL MANHOLE OPENINGS (CASTED OR CORE-DRILLED) SHALL BE CONSTRUCTED WITH A FLEXIBLE RUBBER WATERTIGHT CONNECTOR CONFORMING TO ASTM C-923, "STANDARD SPECIFICATIONS FOR RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES".

A MAXIMUM OF EIGHT (8) INCHES OF ADJUSTING RINGS (2 TOTAL RINGS) ARE ALLOWED. THE FRAME, CHIMNEY, AND TOP 1/P"OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. ONLY "NFI-SHIELD", "ADAPTOR-SEAL", CRETEX X-85, OR AN APPROVED EQUAL WILL BE ALLOWED.

WHEN A NEW MANHOLE IS APPROVED TO BE CONSTRUCTED ON AN EXISTING PUBLIC SEWER, ONLY NONSHEAR COUPLERS SHALL BE INSTALLED. THIS WORK SHALL BE INSPECTED BY THE MUNICIPALITY HAVING FIRST JURISDICTION OR BY THE DISTRICT.

AFTER ANY MANHOLE IS AT FINISHED GRADE, AND WITH ADJUSTING RINGS AND CHIMNEY SEALS IN PLACE, EACH STRUCTURE SHALL BE VACUUM TESTED FROM THE TOP OF THE CASTING. ANY LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINKING GROUT. NO GROUT SHALL BE PLACED IN ANY HORIZONTAL JOINT OF ANY MANHOLE FOR ANY REASON. ALL PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. A VACUUM OF TEN (10) INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY (HG) FOR THE FOLLOWING TIME PERIODS FOR EACH SIZE MANHOLE:

*FORTY-EIGHT INCHES (48") IN DIAMETER – SIXTY (60) SECONDS
*SIXTY INCHES (60") IN DIAMETER –SEVENTY-FIVE (75) SECONDS

*MANHOLE TESTING WILL BE IN ACCORDANCE WITH ASTM-1244-93 OR IN ACCORDANCE WITH DISTRICT REQUIREMENTS. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENT WILL APPLY (E.G. WHERE DEEPER MANHOLES ARE CONSTRUCTED). SHOULD THE MANHOLE FAIL THE VACUUM TEST, THE STRUCTURE SHALL BE DISASSEMBLED TO A POINT THAT SAID LEAK CAN BE REPAIRED WITH BUTYL ROPE. AFTER THE REPAIR IS COMPLETE, THE MANHOLE SHALL BE RE-TESTED UNTIL A SATISFACTORY RESULT IS OBTAINED. REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES

1. PIPES

PIPE CONNECTIONS OF THOSE MADE FROM DISSIMILAR MATERIALS OR OF PVC WITH DIFFERING OUTSIDE DIAMETERS WHERE NO HUB EXISTS SHALL BE MADE WITH A NON-SHEAR COUPLING.

EXISTING NON-PVC BUILDING SEWERS OR "STUBS" SHALL NOT BE USED IN CONNECTION WITH NEW BUILDINGS WHERE A DISTRICT CONNECTION PERMIT IS REQUESTED. IN SUCH CASES, SAID BUILDING SEWER OR "STUB" WILL EITHER NEED TO BE REMOVED TO WITHIN ONE FOOT (1') OF THE PUBLIC SEWER AND THEN REPLACED WITH APPROPRIATE PVC MATERIAL OR LINED WITH A CURED-IN-PLACE PIPE (CIPP) MEETING THE REQUIREMENTS OF ASTM F1216, D5813, D790, AND D2990. SAID CIPP SHALL BE INSTALLED USING THE INVERSION METHOD ONLY, UTILIZING HOT WATER OR STEAM TO CURE ALL LINERS.

BUILDING SEWERS SHALL BE PERMANENTLY ABANDONED USING ONE OF THE FOLLOWING TWO METHODS.

1.) REMOVED TO WITHIN ONE (1) FOOT OF THE PUBLIC SEWER AND PLUGGED USING A MECHANICAL PLUG AND MORTAR. THIS IS THE PREFERRED METHOD. IF THIS IS NOT FEASIBLE, SEE ITEM TWO BELOW.

2.) THE BUILDING SEWER CONNECTION SHALL BE SEALED WITHIN THE PUBLIC SEWER WITH A FOUR (4) FOOT MINIMUM LENGTH CURED-IN-PLACE PIPE (C.I.P.P.) LINER WITH HYDROPHILIC GASKETS.

WHERE A NEWLY CONSTRUCTED PUBLIC SEWER NEEDS TO BE REPAIRED DUE TO DAMAGE HAVING OCCURRED DURING CONSTRUCTION, ONLY PVC TRANSITION FITTINGS SHALL BE REQUIRED (NO NON-SHEAR COUPLINGS). ONLY REPAIR CLAMPS CONFORMING TO ANSI/NSF-61 SHALL BE ALLOWED. WHEN THE DAMAGE OCCURS WITHIN THIRTY (30) FEET OF A MANHOLE, THE CONTRACTOR SHALL REMOVE AND REPLACE THE DAMAGED MAIN FROM THE NEAREST JOINT TO THE MANHOLE.

2. MANHOLES

EACH MANHOLE, WHICH HAS BEEN DISTURBED AROUND THE FULL CIRCUMFERENCE OF THE STRUCTURE, INCLUDING BEING RAISED OR LOWERED, SHOULD BE CLEANED AND DRIED BEFORE RE-SEALING. EACH CONE AND BARREL SECTION JOINT SHALL REQUIRE A DOUBLE-LAYER OF BUTYL ROPE AND ALSO BE EXTERNALLY SEALED WITH A "6"OR "8"WIDE (MIN.) SEALING BAND OF RUBBER AND MASTIC. THE BAND SHALL HAVE AN OUTER LAYER OF RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC (WITH A PROTECTIVE FILM). MEETING THE REQUIREMENTS OF ASTM C-877, "TYPE II OR "TYPE III.

A MAXIMUM OF EIGHT (8) INCHES OF ADJUSTING RINGS (2 TOTAL RINGS) IS ALLOWED IN ANY REPAIR. THE FRAME AND CHIMNEY OF THE CONE SECTION SHALL BE REQUIRED TO BE SEALED WITH A CHIMNEY SEAL. ONLY "NFI-SHIELD", "ADAPTOR-SEAL", CRETEX X-85, OR APPROVED EQUAL WILL BE ALLOWED.

SANITARY SEWER INSTALLATION RULES AND REGULATIONS
FOX METRO WATER RECLAMATION DISTRICT
REV: 8/15/2023

FOX METRO WATER RECLAMATION DISTRICT HAS FIRST JURISDICTION IN THE TRIBUTARY METROPOLITAN SEWER AREA AS PER SEWER USE ORDINANCE #885 AND ALL DISCHARGES TO THE SANITARY SYSTEM WILL BE CONTROLLED AND MONITORED BY FOX METRO WATER RECLAMATION DISTRICT.

BONDING

1. TO PERFORM SANITARY SEWER SERVICE INSTALLATION OR REPAIRS YOU MUST PROVIDE A TWENTYFIVE THOUSAND-DOLLAR ($25,000.00) LICENSE & PERMIT BOND TO "FOX METRO WATER RECLAMATION DISTRICT"(DISTRICT), AS THE OBLIGE. ON THIS BOND, IT SHALL BE INDICATED THAT THE CONTRACTOR PERFORMS WORK SUCH AS: "SANITARY SEWER EXCAVATION"OR "SANITARY SEWER CONSTRUCTION". THE BONDED CONTRACTOR IS REQUIRED TO INSTALL OR REPAIR ALL SANITARY SEWERS ACCORDING TO DISTRICT SPECIFICATIONS (ALSO REFER TO STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND "77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE", LATEST EDITION).

VIOLATIONS AND ILLEGAL DISCHARGES

2. FAILURE TO COMPLY WITH DISTRICT ORDINANCES MAY RESULT IN PENALTIES NOT TO EXCEED THREE THOUSAND DOLLARS ($3,000.00) FOR EACH VIOLATION. THESE FINES MAY DOUBLE WITH EACH OCCURRENCE BY THE SAME COMPANY, INDIVIDUAL, OR CONTRACTOR. THE FOLLOWING LIST DOES NOT REPRESENT ALL POSSIBLE VIOLATIONS, BUT INCLUDES SOME OF THE MOST COMMON VIOLATIONS:
a. CONSTRUCTION USING UNAPPROVED PLANS
b. CONSTRUCTION OF A NEW SEWER WITHOUT A DISTRICT CONNECTION PERMIT
c. REPAIR OF AN EXISTING SEWER WITHOUT A DISTRICT REPAIR PERMIT
d. CONSTRUCTION/REPAIR OF SANITARY SEWERS OR WATER SUPPLY LINES WITHOUT A DISTRICT INSPECTION
e. CONSTRUCTION/REPAIR OF SANITARY SEWERS WITHOUT AN APPROVED LICENSE AND PERMIT BOND
f. CONSTRUCTION OF PUBLIC SEWERS WITHOUT 48-HOUR NOTICE
g. CONSTRUCTION OF SEWERS WITHOUT REQUIRED I.E.P.A. PERMIT AND DIST

**EXHIBIT "B"**
Termination of Grant of Easement

**Prepared By & After Recording Mail To:**

Russell G. Whitaker III
Rosanova & Whitaker, Ltd.
445 Jackson Ave #200
Naperville, Illinois 60540

*(For Recorder's Use Only)*

# TERMINATION OF GRANT OF EASEMENT

**THIS TERMINATION OF GRANT OF EASEMENT** ("Termination") is made as of this ___ day of _____, 2024 by **OSWEGO COMMUNITY UNIT SCHOOL DISTRICT NO. 308**, a body corporate and politic ("Grantee").

**WHEREAS**, Grantee is the owner of certain real Property generally located at the southwest intersection of Wolf's Crossing Road and Eola Road and legally described on Exhibit "A" attached hereto ("Grantee's Property");

**WHEREAS**, Grantee was granted a perpetual easement to construct, operate, maintain, inspect, remove, replace and reconstruct storm water pipelines, together with such equipment and appurtenances as necessary across the property legally described on Exhibit "B" attached hereto ("Burdened Property") as set forth in the Grant of Easement for Storm Water Pipeline and Related Purposes by and between Donald J. Hamman and Carol S. Hamman and Grantee dated October 17, 2001 and recorded in the Will County Recorder's Office on September 29, 2011 as document number R2011091108 (the "Grant of Easement");

**WHEREAS**, Grantee has determined that the Grant of Easement is no longer required, and it is in the best interest of Grantee for the Grant of Easement to be terminated and be of no further force and effect;

**NOW, THEREFORE, IT IS AGREED** by Grantee as follows:

1. **Recitals**. All of the foregoing recitals are true and correct and expressly incorporated herein as substantive terms by this reference.

2. **Termination of Easement**. The undersigned Grantee hereby releases, terminates and quitclaims any and all right, title and interest in and to the Grant of Easement on the Burdened Property as originally described in document R2011091108.

3. **Counterparts.** This Termination may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

4. **Recording**. Upon execution, this Termination of Grant of Easement shall be recorded in the Will County Recorder's Office.

IN WITNESS WHEREOF, this Termination of Grant of Easement is entered into as of the _____ day of _____, 2024.

**GRANTEE:**

OSWEGO COMMUNITY UNIT SCHOOL DISTRICT NO. 308

By: _____

Its: _____

*Attest:*

By: _____

**EXHIBIT "A"**
Grantee's Property Legal Description

**EXHIBIT "B"**
Burdened Property Legal Description