F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	32	1
	ILLINOIS	CONTRACT NO.		

FINAL ENGINEERING PLANS FOR:

MASTODON LAKE, SHORELINE RESTORATION

CITY OF AURORA

KANE COUNTY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2
FOR BENCHMARK INFORMATION, SEE SHEET NO. 2

0 100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
811 OR 1-800-892-0123

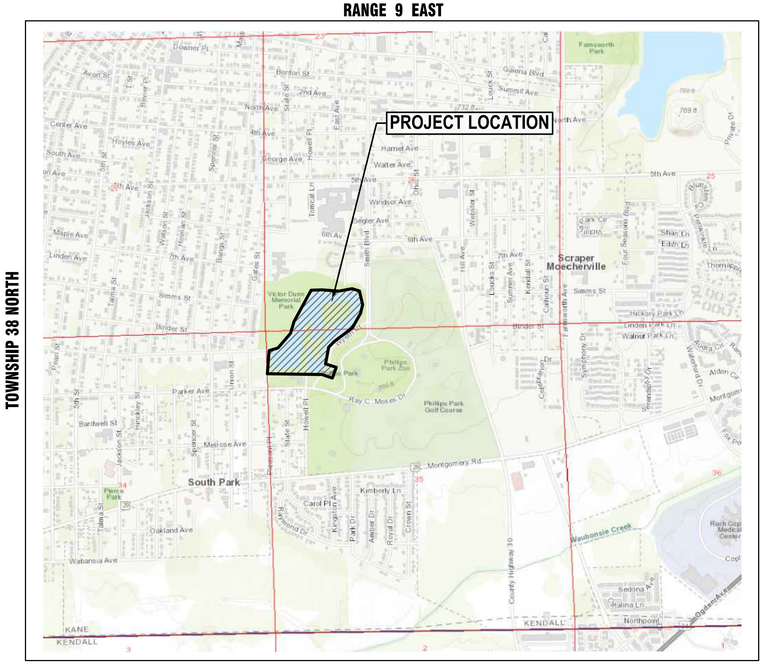
Dial 811 or 1-800-892-0123 JULIE DESIGN TICKET NUMBER: # A0330734

811 Know what's below. Call before you dig.

WITH THE FOLLOWING:
COUNTY KANE COUNTY
CITY-TOWNSHIP AURORA-AURORA TOWNSHIP
SEC. & 1/4 SEC. NO.# 26,35-38 N.-8 E.

(2) Working Days before you dig
(Excluding Sat., Sun. & Holidays)

RANGE 9 EAST



KANE COUNTY- AURORA TOWNSHIP
THIRD PRINCIPAL MERIDIAN

PROJECT LOCATION MAP
SCALE: N.T.S.



LOCATION OF SECTION INDICATED THUS: -

CITY OF AURORA

APPROVED _____ **20** _____

_____
CITY OF AURORA

LICENSED PROFESSIONAL ENGINEER
LOGAN R. GILBERTSEN
062-067541
STATE OF ILLINOIS

LOGAN R. GILBERTSEN, P.E.
EXPIRES: NOVEMBER 30, 2025

PLAN REVISIONS

ENGINEER/SURVEYOR:

HR GREEN, INC
2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506

CLIENT MANAGER: A. JAIN, P.E.
(815) 759-8331
PROJECT MANAGER: L. GILBERTSEN, P.E.
(815) 759-8370
PROJECT SURVEYOR: J. BOLINE, P.L.S.
(815) 759-8375

HRGreen
2363 SEQUOIA DRIVE, SUITE 101 | AURORA, IL 60506
Phone: 630.553.7560 | Toll Free: 800.728.7805 | Fax: 630.553.7646 | HRGreen.com

PLANS PREPARED FOR:

CITY OF AURORA
MR. SOUTS THAVONG, P.E., CFM
ENGINEERING COORDINATOR
CITY OF AURORA ENGINEERING DIVISION
44 EAST DOWNER PLACE
AURORA, IL 60507
PHONE: (630) 256-3207

PROJECT LOCATED IN THE CITY OF AURORA

PRINTED BY THE AUTHORITY OF CITY AURORA

FOR BIDDING
—NOT FOR CONSTRUCTION—

Sheet List Table

Sheet Number	Sheet Title
01	Cover (1)
02	Index of sheets and IDOT Details (1)
03	General Notes (1)
04	Summary_of_Quantities (2)
05	Overall-Ex-Cond (1)
06	Bank Restore-Typs (1)
07	Bank Restore-Typs (2)
08	Bank Restore-Typs (3)
09	Restoration (1)
10	Restoration (2)
11	Restoration (3)
12	Restoration (4)
13	Erosion_Specs (1)
14	Erosion_Details (1)
15	Erosion_Details (2)
16	Erosion_Details (3)
17	Erosion_Details (4)
18	IDOT_Details (1)
19	IDOT_Details (2)

UTILITY CONTACTS

UTILITY: CITY OF AURORA
CONTACT: MIKE HOUSTON
PHONE: 331-254-2026
EMAIL: houstonm@aurora.il.us

UTILITY: ATT DISTRIBUTION
CONTACT: G11629@ATT.com
EMAIL: G11629@ATT.com

UTILITY: COMED
PHONE: 630-576-7094

UTILITY: COMCAST
CONTACT: MARTHA GIERAS
PHONE: 224-229-5862
EMAIL: martha_gieras@comcast.com

UTILITY: FOX METRO WATER RECLAM. DIST
CONTACT: KEITH ZOLLERS
PHONE: 630-301-6810
EMAIL: kzollers@foxmetro.org

UTILITY: NICOR GAS
CONTACT: UTILITY CONSULTANT GO3W
PHONE: 630-388-2362

SYMBOL LEGEND

	EXISTING	PROPOSED
SANITARY MANHOLE		
STORM MANHOLE		
STORM CATCH BASIN/INLET		
INLET		
FLARED END SECTION		
VALVE VAULT		
WATER SERVICE VALVE		
WATER B-BOX		
INDICATES WATER MAIN LINE STOP		
INDICATES PRESSURE VALVE INSERT		
CUT AND CAP		
FIRE HYDRANT WITH AUXILIARY VALVE		
LIGHT POLE		
REGULATORY SIGN		
UTILITY POLE		
UTILITY BOX	GAS ELEC CATV	GAS ELEC CATV
MAILBOX		
WELL	W	
SANITARY SEWER		
STORM SEWER		
COMBINATION STORM AND SANITARY SEWER		
CULVERT		
PERFORATED UNDERDRAIN		
WATER MAIN	W	W
WATER MAIN ENCASEMENT		
TRENCH BACKFILL		
SANITARY FORCE MAIN		
ELECTRIC LINE	E	E
OVERHEAD ELECTRIC LINE	OE	OE
UNDERGROUND ELECTRIC	UE	UE
TELEPHONE LINE	T	T
GAS LINE	G	G
CABLE TV LINE	CATV	CATV
FIBER OPTIC LINE	FO	FO
RAILROAD TRACKS		
TREE LINE		
TREE		
CONTOURS		
SPOT ELEVATION	EXIST	PROP
FENCE	x	
WETLAND		
MARSH / WETLAND		
RIPRAP		
DRAINAGE DIRECTION ARROW		
DRAINAGE OVERFLOW DIRECTION		

STANDARD ABBREVIATIONS

B-B – BACK TO BACK OF CURB
B.C. – BACK OF CURB
B.O.C. – BACK OF CURB
B.S.L. – BUILDING SETBACK LINE
C.B. – STORM CATCH BASIN
C.E. – COMMONWEALTH EDISON CO.
D.E. – DRAINAGE EASEMENT
E-E – EDGE TO EDGE OF PAVEMENT
E.O.P. – EDGE OF PAVEMENT
E.O.S. – EDGE OF SHOULDER
E.P. – EDGE OF PAVEMENT
E.S. – EDGE OF SHOULDER
F.E.S. – FLARED END SECTION
I.B.T. – ILLINOIS BELL TELEPHONE CO.
L.E. – LANDSCAPE EASEMENT
M.H. – MANHOLE (TYPE SPECIFIED ON PLANS)
R.C.M.E. – ROAD CONSTRUCTION & MAINTENANCE EASEMENT
R.O.W. – RIGHT OF WAY
T.B.F. – TRENCH BACKFILL
T.C. – TOP OF CURB
T.C.E. – TEMPORARY CONSTRUCTION EASEMENT
T.O.B. – TOP OF BERM
T.O.C. – TOP OF CURB
U.E. – UTILITY EASEMENT

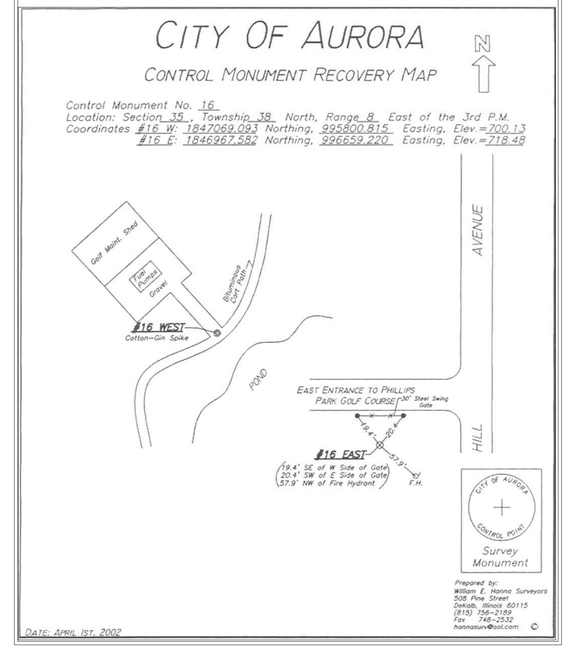
SITE BENCHMARKS:

DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SITE BENCHMARK

CITY OF AURORA BENCHMARK #16E
CITY OF AURORA SURVEY MONUMENT DISK AT THE SOUTHWEST INTERSECTION OF HILL AVENUE AND THE EAST ENTRANCE TO PHILLIPS PARK GOLF COURSE. LYING 6.9' SOUTHWEST OF NORTHWEST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN AND 13.7' NORTHWEST OF THE SOUTHEAST POST CORNER OF THE PHILLIPS PARK GOLF COURSE SIGN.

ELEVATION=718.48 (NAVD88)



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PROJECT CONTACT:					
CLIENT:					
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PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

INDEX OF SHEETS, BENCHMARKS AND UTILITY CONTACTS

SCALE: N.T.S. | SHEET NO. 01 OF 01 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	02
		CONTRACT NO. _____		
		ILLINOIS	FED. AID PROJECT	

WATER SERVICE VALVE LOREN GYPSUM

GENERAL NOTES:

1. All items of this project shall be governed by specifications included in the documents listed below:

   A. "Standard Specifications for Road and Bridge Construction" prepared by the Department of Transportation of the State of Illinois and adopted by said department (Latest Edition).
   B. "Supplemental Specifications and Recurring Special Provisions" adopted by the Illinois Department of Transportation (Latest Edition).
   C. "Bureau of Design & Environment Manual" (BDE) by Illinois Department of Transportation (Latest Edition)
   D. "Manual on Uniform Traffic Control Devices" – Federal Highway Administration MUTCD (Latest Edition).
   E. "Illinois Supplement to the National Manual on Uniform Traffic Control Devices" (Latest Edition).
   F. "Standard Specifications for Water and Sewer Main Construction in Illinois" (Latest Edition).
   G. "Illinois Urban Manual" prepared by the U.S. Department of Agriculture NRCS and maintained by the Association of Illinois Soil and Water Conservation Districts (Latest Edition).
   H. "Standards and Specifications for Soil Erosion and Sediment Control" by IEPA, Illinois Urban Manual – A Technical Manual Designed For Urban Ecosystem Protection and Enhancement, (Latest Edition).
   I. "Kane County Stormwater Management Ordinance"

In addition the following special provisions supplement the said specifications, and in case of conflict with any part or parts of said specifications, these special provisions shall take precedence and shall govern.

2. SCOPE OF WORK: The proposed improvement consists of supplying all the necessary labor, material and equipment to satisfactorily construct and install all improvements according to the plans designated as MASTODON LAKE DREDGING, SHORELINE RESTORATION PROJECT – AURORA,IL.

3. COORDINATION WITH UTILITIES

   Prior to the start of construction, the contractor shall have all utilities located by J.U.L.I.E (811) or (1–800–892–0123) at least 48 hours prior to the start of construction. The contractor shall cooperate with all utility owners as provided for in the Standard Specifications.

   The contractor shall be responsible for the protection of all underground or surface utilities, even though they may not be shown on the plans. Any utility that is damaged during construction shall be repaired or replaced to the satisfaction of the Engineer or the Owner. This work shall be paid for at the Contractor's expense.

   It is the Contractor's responsibility to locate all existing utilities prior to construction. The location of existing utilities as shown on these plans is based on record information and may not be accurate. Where conflict exists between existing utilities and the proposed underground piping requiring a revision to the plans, such construction shall not be undertaken until such changes are approved by the Engineer. The contractor shall report all such conflicts immediately to the Engineer.

   The coordination of all utility work for the construction project will be discussed at a pre construction meeting.

4. CLEARING, TREE REMOVAL, BUSH REMOVAL, AND PROTECTION
   The Contractor shall provide protection as per Article 201 of the Standard Specifications.

5. CONSTRUCTION FENCING

   A. Perimeter Construction Fencing to be placed to ensure the safety of property and life. Fencing of areas for contractors stockpile, staging, security and safety shall not be measured for payment. Construction fencing shall be adjusted at the Owner's direction when it interferes with the Owner's operations.

6. CONSTRUCTION OBSERVATION
   All improvements shall be subject to observation by a duly authorized and qualified City of Aurora or owner's representative both during the course of construction and after construction is complete for final project closeout.

7. EROSION CONTROL. It shall be the Contractor's responsibility to properly control erosion on the jobsite. Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contractor. Site grading shall not proceed until erosion control measures have been installed.

   The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for clean–up of paved surfaces within and adjacent to the project on a timely basis and/or at the direction of the Engineer, or City of Aurora.

   All construction will adhere to the requirements set forth in the IEPA's General NPDES Permit for Stormwater Discharge from construction site activities.

   For all drainage structures in the disturbed areas, inlet protection shall be placed and maintained by the Contractor until vegetation is established, as determined by the City of Aurora.

   Erosion control measures must be inspected weekly and after every storm of one half inch of rainfall or greater by the Contractor. An inspection report must be submitted by the Contractor to the City of Aurora following each inspection. Any repairs or replacement needed to ensure adequate erosion control must be made immediately at the Contractor's expense.

   Construction & Silt fencing must be installed prior to starting construction.

8. TOPSOIL PLACEMENT. Contractor shall place stockpiled topsoil or imported material on all disturbed areas with a minimum 6" topsoil raked smooth to be ready for landscaping (seeding, sod, etc.).

9. No construction plans shall be used for construction unless specifically marked "For Construction." Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting their work with the actual conditions at the job site. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the Contractor assumes full responsibility. In the event of disagreement between the construction plans, standard specifications and/or special details, the Contractor shall secure written instructions from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. Failing to secure such instructions, the Contractor will be considered to have proceeded at his own risk and expense. In the event of any doubt or question arising with respect to the true meaning of the construction plans or specifications, the decision of the Engineer shall be final and conclusive.

10. INDEMNIFICATION

    Contractor shall provide indemnification as per Article 107.26 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

    ADDITIONAL REQUIREMENTS: The Contractor shall also indemnify and hold harmless, HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, its officers, employees, agents, and subcontractors. The Contractor shall not commence work until additional indemnification requirements have been obtained under this paragraph.

11. INSURANCE AND LIABILITY

    Contractor shall provide insurance coverage as per Article 107.27 of the Standard Specifications. All costs for insurance shall be considered incidental to the contract.

    The "District" shall be taken to mean City of Aurora. The policy of insurance shall include HR Green, Inc., the Consultant selected for Construction Engineering Services (HR Green, Inc.), City of Aurora, and it's Agents as an additional insured or provide separate coverage with an Owner's Protective Policy, as per the amounts stated in the Standard Specifications. No work shall begin until the certificate of insurance is on file with the Engineer.

    ADDITIONAL REQUIREMENTS: The Contractor shall secure and maintain such insurance from an insurance company authorized to write casualty insurance in the State where the work is located and also will protect and list as additional insured, HR Green, Inc., the Consultant selected for Construction Engineering Services (yet to be determined), City of Aurora, and his subcontractors and his employees from claims for bodily injury, death or property damage which may arise from improvements on the property. The Contractor shall not commence work until he/she has obtained all insurance required under this paragraph and filed the certificate of insurance or the certified copy of the insurance policy.

12. SITE CLEAN UP

    When construction operations take place adjacent to public roadways the contractor shall be responsible for removal of all loose debris deposited on the pavement. The stock piling of spoils from foundations or utility excavations will not be allowed on the pavement or in special management areas such as floodplains or wetlands.

13. LANDSCAPING & RESTORATION

    The contractor shall take care in grading near trees, shrubs and bushes which are not to be removed so as not to cause injury to the roots, trunks or limbs. This work shall be included and paid for as "Tree Protection." Saw cutting of tree roots shall be considered incidental to the contract.

    The contractor shall make every effort to avoid disturbing any existing landscaping, landscaping appurtenances, walkways, retaining walls, etc, that are not marked for removal on the plans. If damage occurs, the contractor shall replace, in kind, the item or items at his/her expense in a manner meeting with the approval of the Engineer. All vegetation being removed shall be replaced with the same size and type. No additional compensation will be allowed for damaged items.

14. STAKING

    The contractor shall be responsible for establishing construction staking for the project site which will be paid for as a lump sum item, CONSTRUCTION STAKING LAYOUT. The Contractor shall protect and carefully preserve all section or subsection monuments or property or reference markers until the Owner, his agent or an authorized surveyor has witnessed or otherwise referenced their locations

    The Engineer shall be responsible for providing electronic files to help facilitate the contractor's construction staking.

    All elevations are on U.S.G.S. Datum. (NAVD 88)

15. MISCELLANEOUS

    All work performed relative to this improvement shall comply with all applicable rules and regulations of O.S.H.A.

    All construction personnel will be required to wear a safety vest, complying with the latest O.S.H.A. requirements, at all times while at the construction site. Compliance with this requirement shall be considered as incidental to the contract.

    Unless otherwise indicated, the cost of all materials required and all labor necessary to comply with the above provisions will not be paid for separately, but shall be considered as included in the unit bid prices of the contract, and no additional compensation will be allowed.

The Contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. See Special Provisions. This work be measured and paid for as Traffic Control and Protection, (Special), Unless Noted Otherwise

Part of the proposed project is located within a flood hazard area, wetlands and Waters of the United States.

The contractor shall confine their grading operations to within construction limits and easements shown on the plans. Any damage to properties outside the site boundary shall be at the sole responsibility of the contractor.

The contractor shall apply necessary moisture control to the construction area and haul roads to prevent the spread of dust.

All field tiles encountered shall be replaced and/or connected to the storm sewer system and located and identified on the record plans by the contractor.

All storm drainage construction shall be performed in accordance with the City of Aurora.

Elevations and contours are to state plane coordinates per NAVD 88 datum.

1 week prior to construction within City row or any connection to public sewers, contractor shall notify the appropriate City engineering divisions (see contact information on cover sheet of this plan set).

The contractor shall not disturb desirable grass areas and desirable trees outside the construction units. The contractor shall not be permitted to park or service vehicles and equipment or store materials in areas outside of the optional staging area shown in plan. Requests for additional storage, parking and service areas will be subject to the approval of the owner.

The contractor is responsible for replacing any areas of pavement or sidewalk not to be removed that is damaged due to operating equipment on the pavement or sidewalk.

The contractor may be required to place temporary warning devices and safety fence at certain locations where replacement features are not installed the same day, as directed by the engineer or the Owner.

All construction within public row/easements and/or any connection to public sewers and streets, shall comply with the City construction specifications for subdivisions and latest edition of IDOT design standards

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CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

GENERAL NOTES

SCALE: N.T.S. | SHEET NO. 01 OF 03 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	03

CONTRACT NO. _____

ILLINOIS | FED. AID PROJECT

	PAY ITEM #	CODED PAY ITEMS	UNITS	QUANTITY
1	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
2	67100100	MOBILIZATION	L SUM	1
3	SPECIAL	EARTH EXCAVATION SPECIAL - SHORELINE SHAPING	FOOT	1,073
4	21400100	GRADING AND SHAPING DITCHES	FOOT	125
5	SPECIAL	PIPE CULVERTS TO BE CLEANED - 12"	FOOT	22
6	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
7	28000400	PERIMETER EROSION BARRIER	FOOT	3,757
8	28000305	TEMPORARY DITCH CHECKS	FOOT	200
9	25100115	MULCH, METHOD 2	ACRE	1.00
10	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100
11	28000500	INLET AND PIPE PROTECTION	EACH	18
12	SPECIAL	COIR LOG - TOE OF SLOPE PROTECTION	FOOT	2,275
13	20101100	TREE TRUNK PROTECTION	EACH	10
14	X2010400	STUMP REMOVAL ONLY	UNIT	80
15	X0322671	TEMPORARY CONSTRUCTION ENTRANCE	EACH	2
16	28100705	STONE RIPRAP, CLASS A3	SQ YD	236
17	SPECIAL	LIMESTONE OUTCROPPING	EACH	4
18	K0012950	HERBICIDE APPLICATION	ACRE	6.22
19	SPECIAL	NATURAL STONE BOULDERS (12" DIA MIN.)	SQ YD	196
20	XX006144	SEEDING (SPECIAL), MESIC PRAIRIE	ACRE	2.58
21	XX006145	SEEDING (SPECIAL), WET MESIC	ACRE	3.64
22	SPECIAL	SEEDING - AURORA MIX	ACRE	1.00
23	K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	EACH	3,200
24	K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	EACH	3,800
25	25301700	SHRUBS - CORAL BERRY, 5 GAL CONTAINER	EACH	55
26	SPECIAL	PERIMETER EXCLUSION BARRIER - WILDLIFE EXCLUSION	FOOT	6,694
27	25100630	EROSION CONTROL BLANKET, S75	SQ YD	7,405
28	25100635	HEAVY DUTY EROSION CONTROL BLANKET - C125-BN	SQ YD	1,468
29	25100635	HEAVY DUTY EROSION CONTROL BLANKET - SC150-BN	SQ YD	4,972
30	25100125	MULCH, METHOD 3	ACRE	1.00
31	SPECIAL	SELECTIVE MOWING STAKES SPECIAL	EACH	36
32	SPECIAL	MONITORING AND MAINTENANCE	YEAR	5
33	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
34	20101700	SUPPLEMENTAL WATERING	MONTH	3
35	SPECIAL	ITEMS ORDERED BY ENGINEER	EACH	50,000

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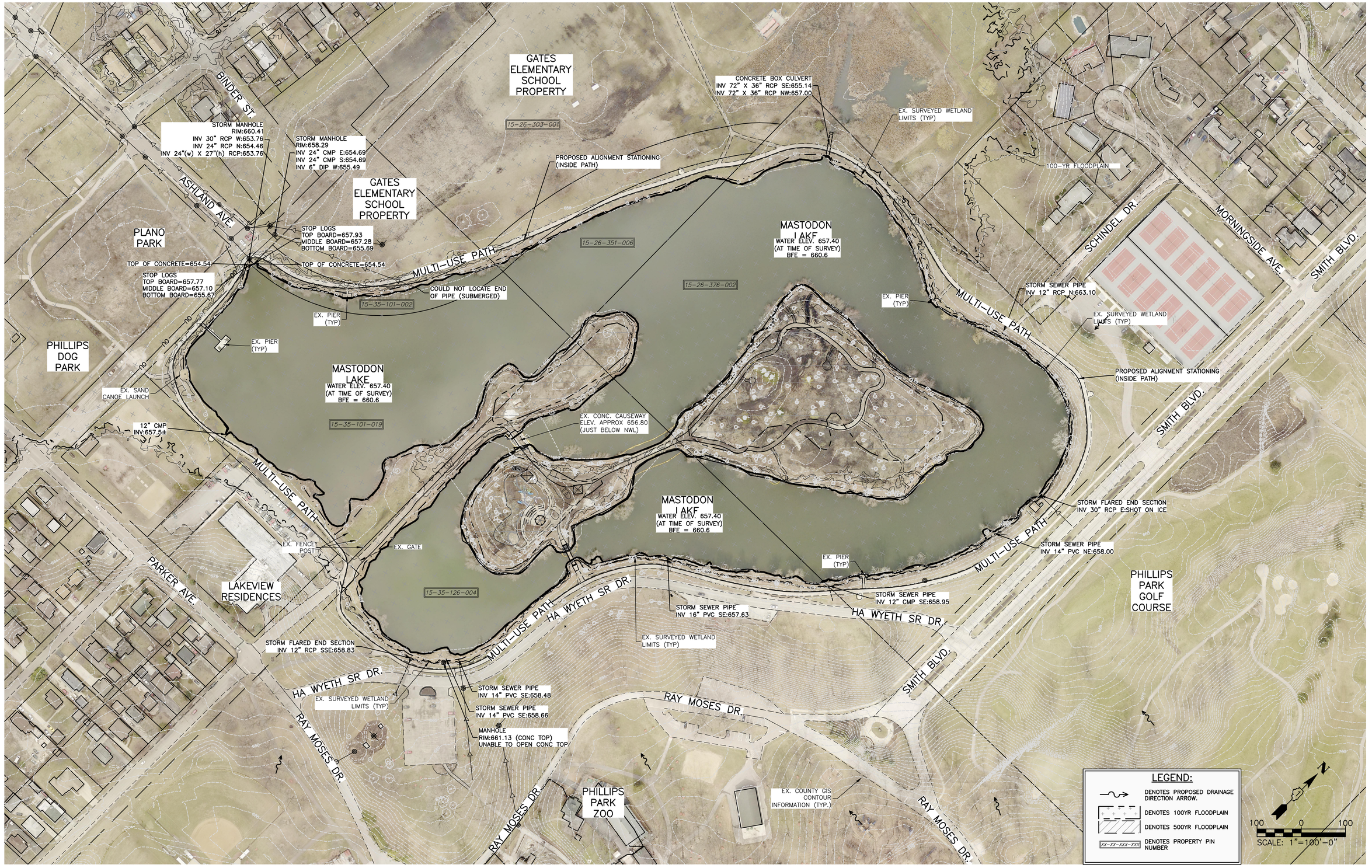
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CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 02 OF 03 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	04
		CONTRACT NO. _____		
		ILLINOIS	FED. AID PROJECT	



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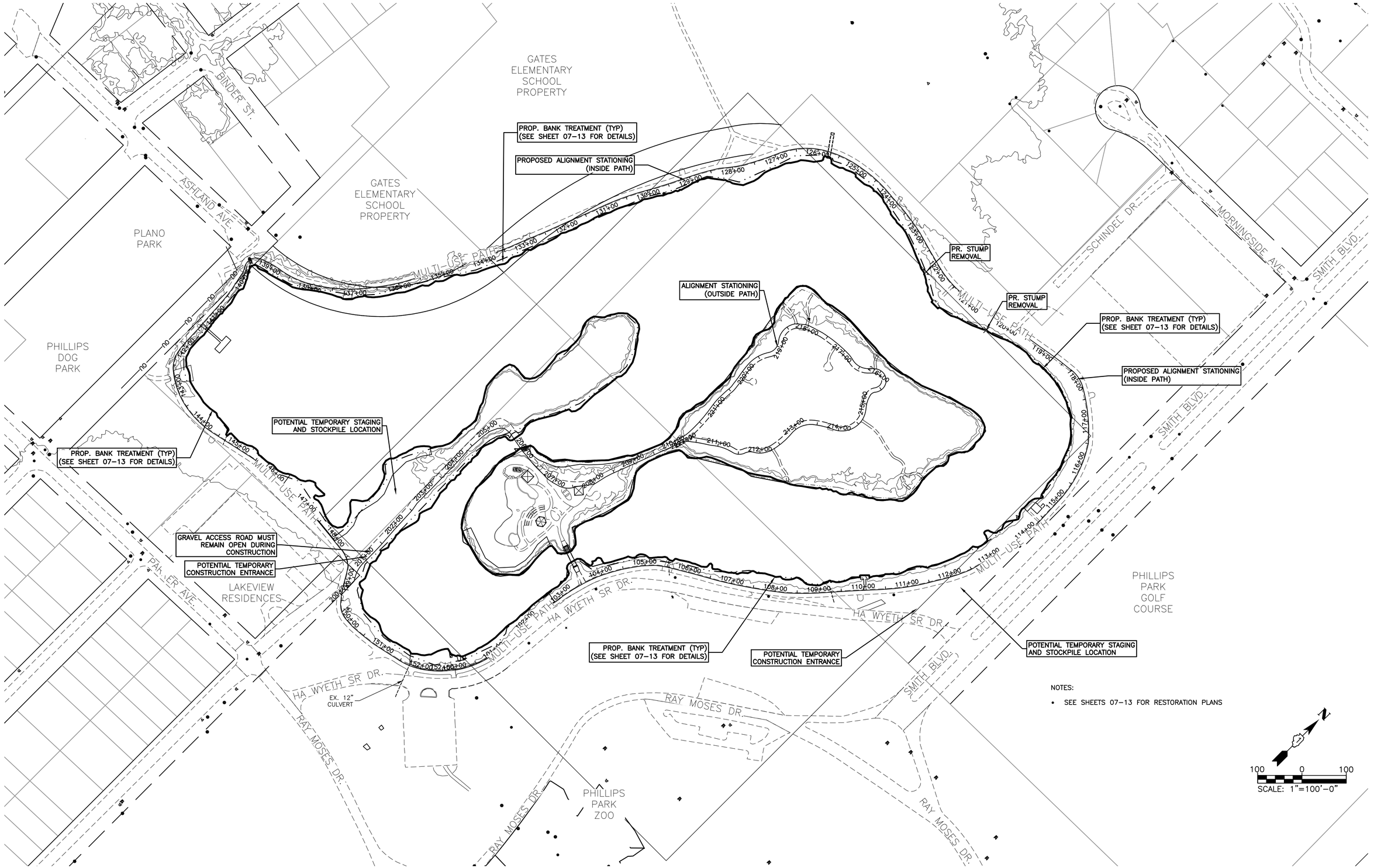
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CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

OVERALL EXISTING CONDITIONS PLAN

SCALE: 1"=100' | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	05
		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		



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CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

OVERALL PLAN

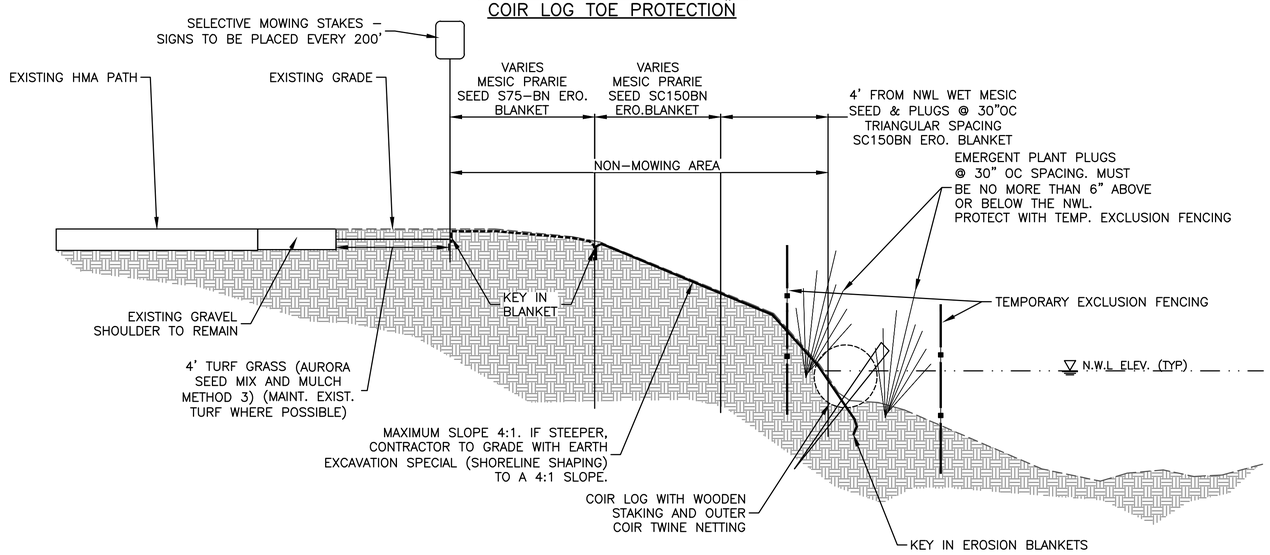
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	06
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

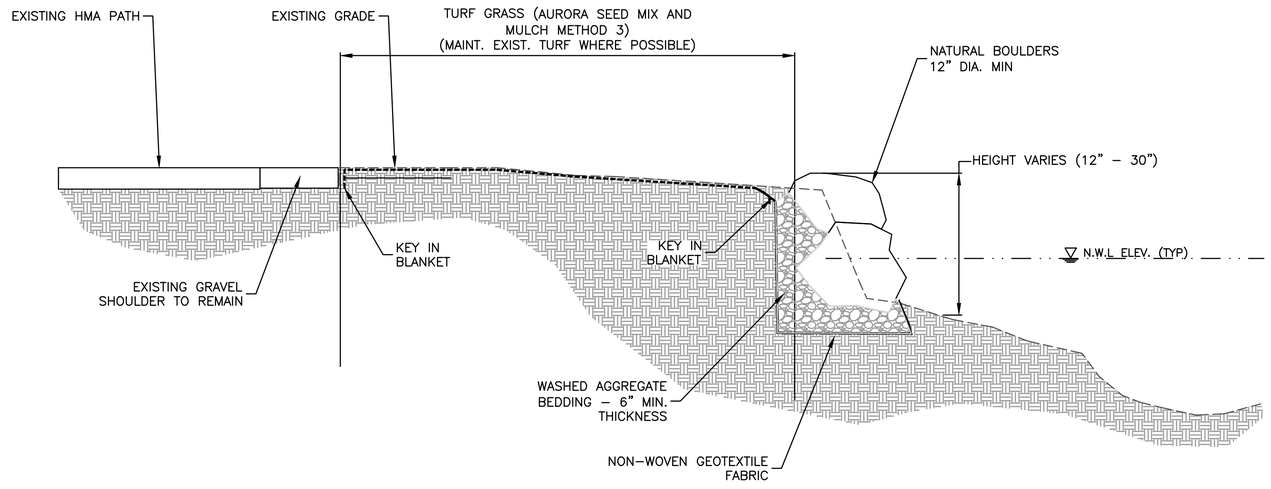
TEMPORARY EXCLUSION FENCING EXAMPLE



BANK TREATMENT TYPICAL #1
COIR LOG TOE PROTECTION



BANK TREATMENT TYPICAL #2
STONE TOE WATER ACCESS



NOTES:
- 100 YEAR HWL = 660.6
- CONTRACTOR TO REGRADE SLOPE BANKS GREATER THAN 4:1 TO A 4:1 SLOPE MIN. FROM WATERS EDGE BACK TO EXISTING GRADE. (TO BE PAID FOR AS EARTH EXCAVATION SPECIAL, SHORELINE SHAPING)

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:51 PM
FILE NAME: 191806-Typical_Sections
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

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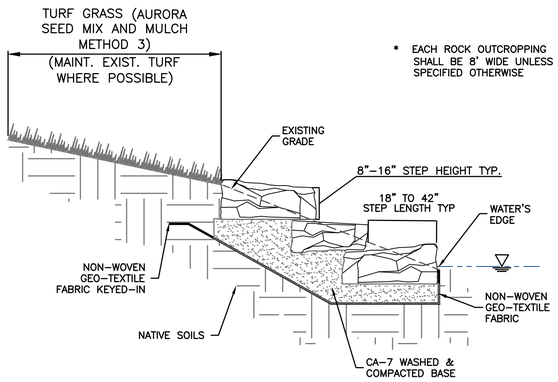
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

BANK TREATMENT DETAIL

SCALE: N.T.S. | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

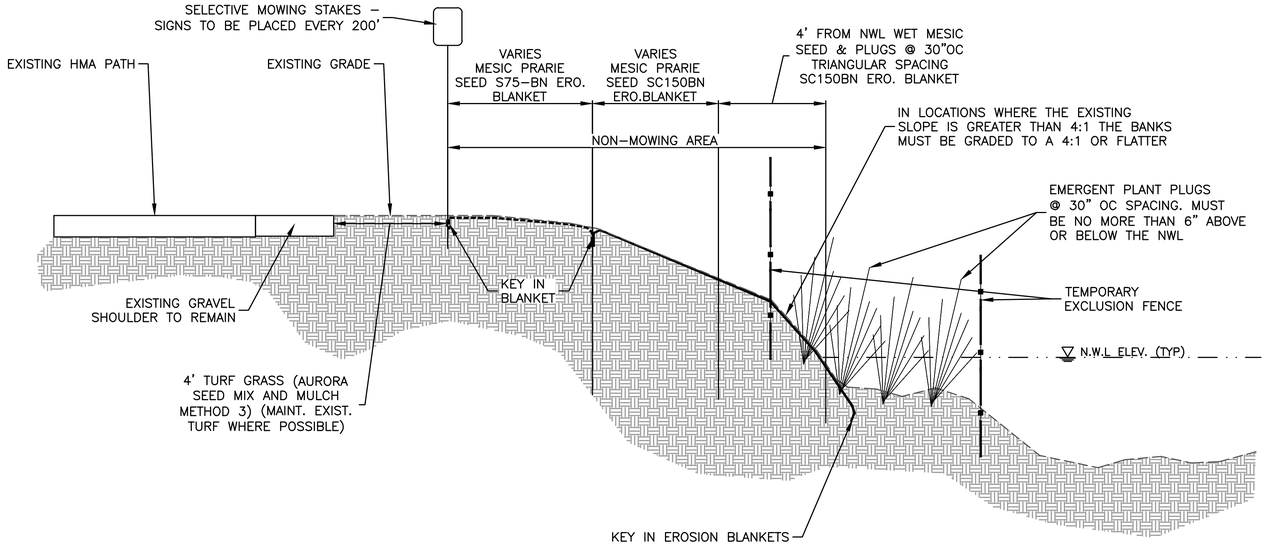
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		

ROCK OUTCROPPING DETAIL

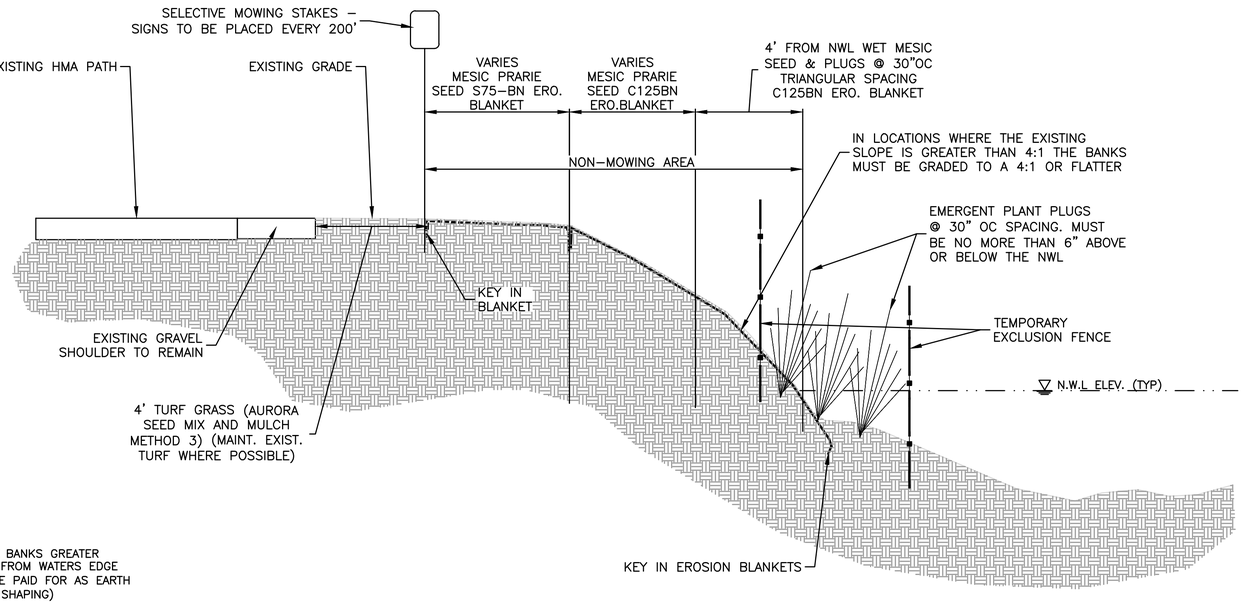




BANK TREATMENT TYPICAL #3
SHORELINE VEGETATION MANAGEMENT



BANK TREATMENT TYPICAL #4
STEEP SHORELINE VEGETATION MANAGEMENT



NOTES:
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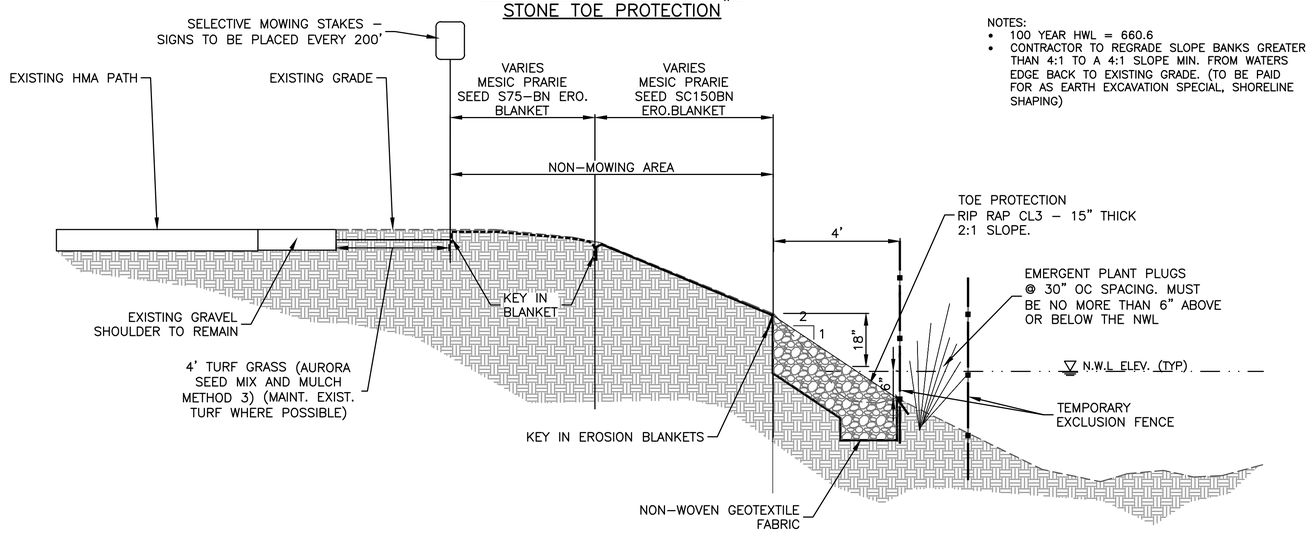
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

BANK TREATMENT DETAIL

SCALE: N.T.S. | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	08
		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		

BANK TREATMENT TYPICAL #5
STONE TOE PROTECTION



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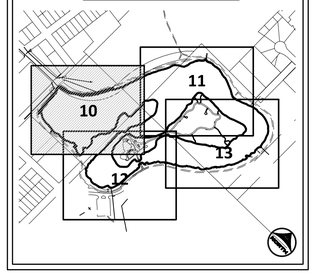
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

BANK TREATMENT DETAIL

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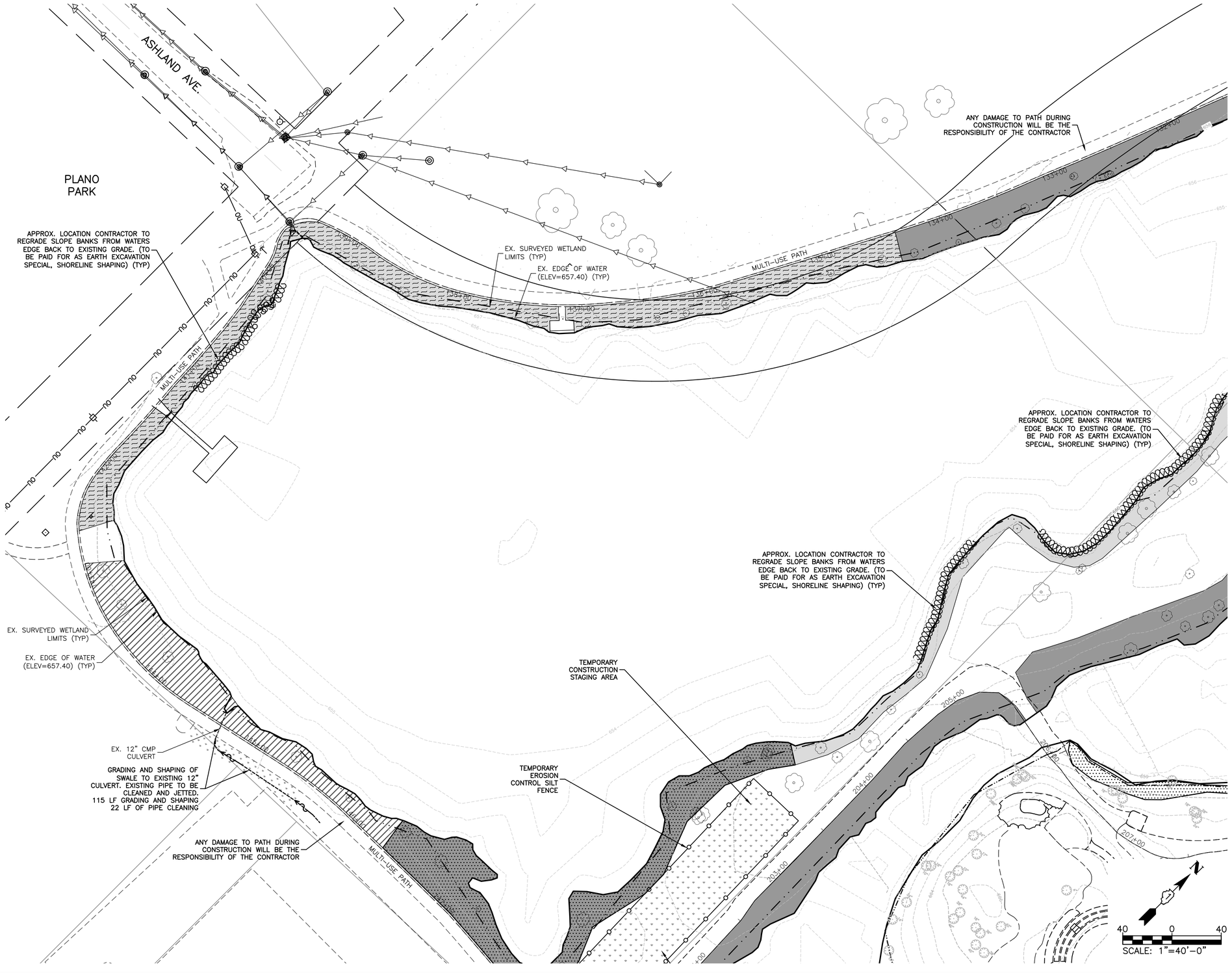
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	09
		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		

LOCATION MAP



RESTORATION LEGEND:

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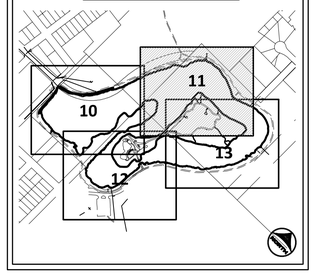
CITY OF AURORA
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SHORELINE RESTORATION PROJECT

RESTORATION PLAN

SCALE: 1"=40' | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

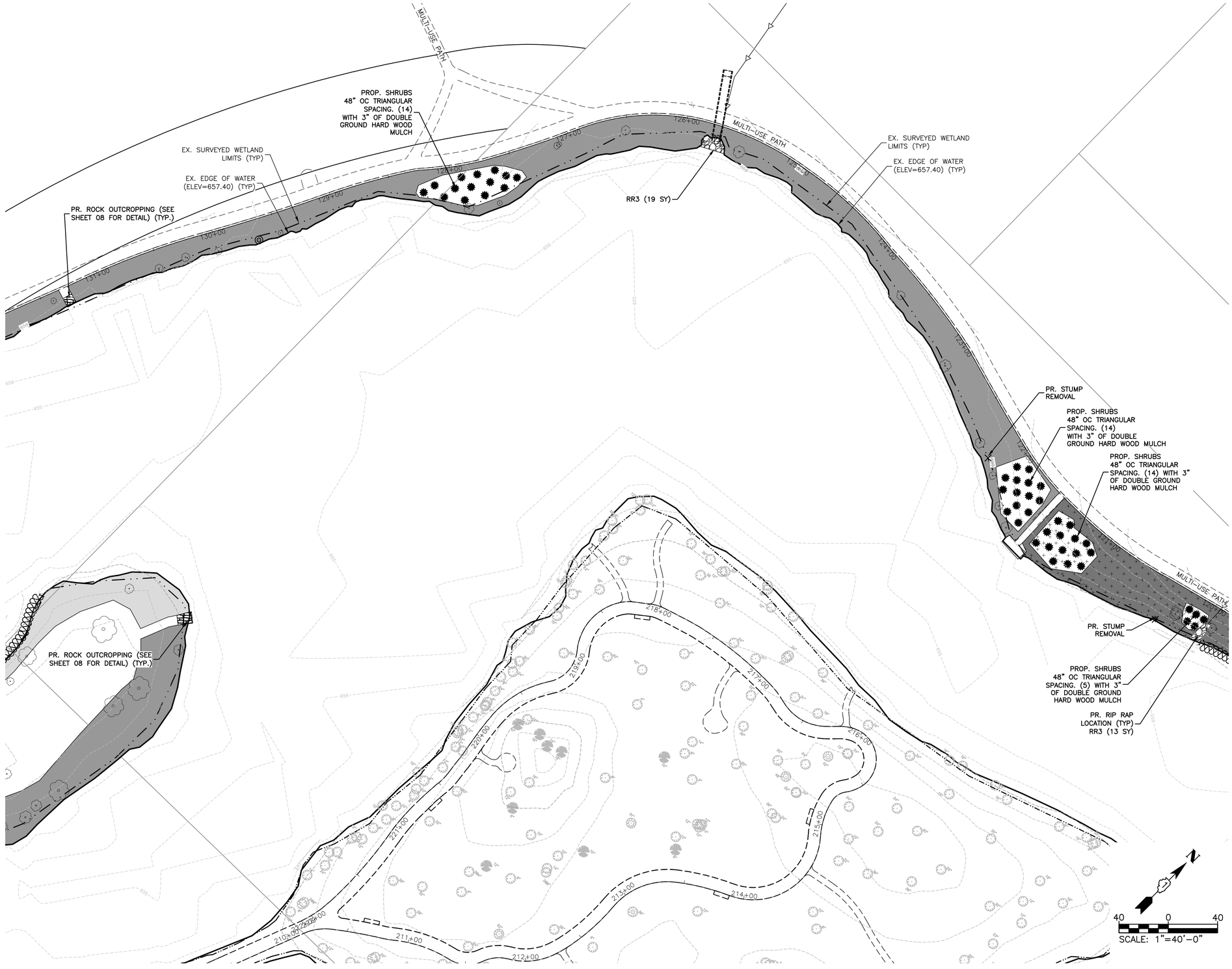
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	10
		CONTRACT NO. ____		
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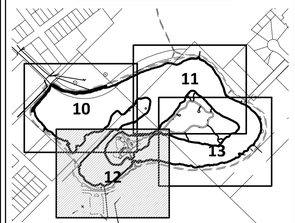
CITY OF AURORA
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SHORELINE RESTORATION PROJECT

RESTORATION PLAN

SCALE: 1"=40' | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

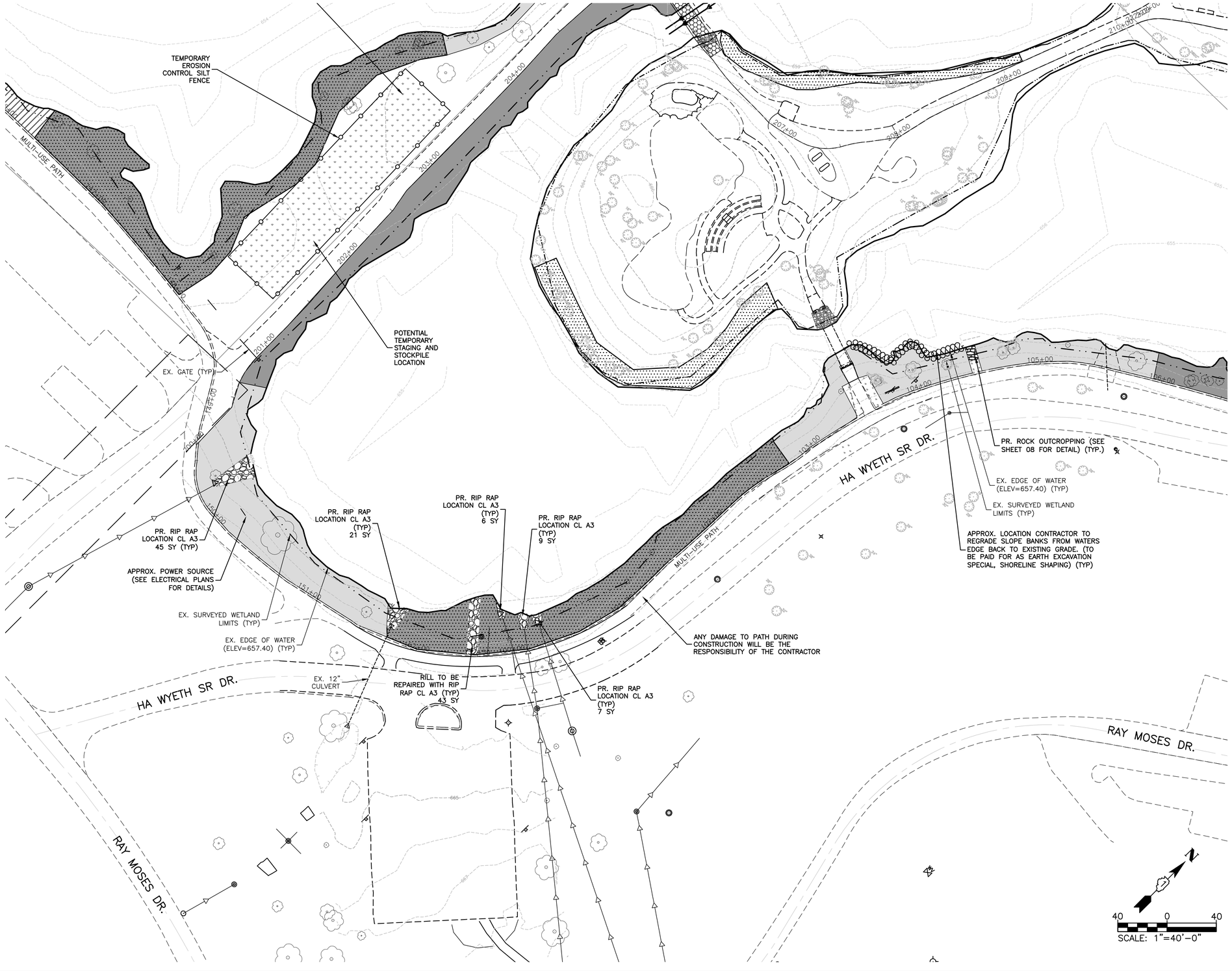
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		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

LOCATION MAP

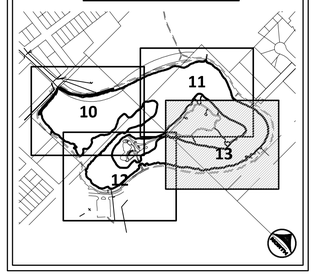


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CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

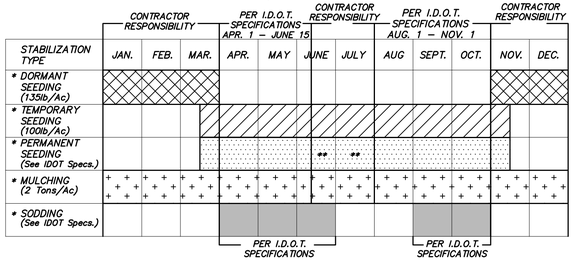
RESTORATION PLAN

SCALE: 1"=40' | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	13
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

CONTROL MEASURE GROUP	CONTROL MEASURE	KEY	APPL.	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	TS	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	PS	X	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING	DS	X	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	
	SODDING	SO		QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT.		
	GROUND COVER	GC	X	PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES.		X
	RAIN GARDEN	RG		PROVIDES A TYPE OF FUNCTIONAL LANDSCAPING FEATURE DESIGNED TO CONTROL STORMWATER RUNOFF. SEE LANDSCAPING PLANS FOR DETAILS		
NON VEGETATIVE SOIL COVER	MULCHING	M	X	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X	
	AGGREGATE COVER	AG		PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.		
	PAVING	P	X	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X
	EROSION BLANKET	EB	X	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING TIME OF YEAR IS INAPPROPRIATE AND IN SLOPED AREAS.	X	
DIVERSIONS	RIDGE DIVERSION	RD		TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE.		
	CHANNEL DIVERSION	CD		TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE.		
	COMBINATION DIVERSION	CBD		TYPICALLY USED ANYWHERE ONA SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.		
	CURB AND GUTTER	CG		SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		
	BENCHES	B		SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.		
WATERWAYS	BARE CHANNEL	BC	X	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		X
	VEGETATIVE CHANNEL	VC	X	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		X
	LINED CHANNEL	LC	X	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		X
	DITCH CHECKS	DC	X	PROVIDES AN ENERGY DISSIPATOR ALONG A LENGTHY CHANNEL TO REDUCE VELOCITY OF STORMWATER	X	
ENCLOSED DRAINAGE	STORM SEWER	ST	X	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		X
	UNDERDRAIN	UD		USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		
SPILLWAYS	STRAIGHT PIPE SPILLWAY	SS		USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER		
	DROP INLET PIPE SPILLWAY	DIS		SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		
	WEIR SPILLWAY	W		USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		
	BOX INLET WEIR SPILLWAY	BS		SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		
OUTLETS	LINED APRON	LA		PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		
	STONE RIP RAP	RR	X	USED AS AN ENERGY DISSAPATOR AT OUTLET STRUCTURES TO REDUCE VELOCITIES		X
SEDIMENT BASINS	EMBANKMENT SEDIMENT BASIN	ES		USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE.		
	EXCAVATED SEDIMENT BASIN	XS		USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE.		
	COMBINATION SEDIMENT BASIN	SB	X	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		X
SEDIMENT FILTERS	BARRIER FILTER (SILT FENCE)	BF	X	A TEMPORARY BARRIER OF EXTRENCHED GEOTEXTILE FABRIC (FILTER FABRIC) STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL.	X	
	VEGETATIVE FILTER	VF		USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
	INLET PROTECTION	IP	X	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER	X	
	FILTER BASKET	FB	X	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER	X	
MUD AND DUST CONTROL	STABILIZED CONST. ENTRANCE	SE	X	A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	
	CONSTRUCTION ROAD STABILIZATION	CRS		THE STABILIZATION OF TEMPORARY CONSTRUCTION ACCESS ROUTES, SUBDIVISION ROADS, ON-SITE VEHICLE TRANSPORTATION ROUTES, AND CONSTRUCTION PARKING AREAS WITH STONE IMMEDIATELY AFTER GRADING TO PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
	DUST AND TRAFFIC CONTROL	DT	X	CONTROL OF DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS	X	
MISC.	EXPLORATORY TRENCH	ET		EXPLORATORY TRENCH EXCAVATION FOR EXISTING UTILITIES		
	CONCRETE WASHOUT	WO		PREVENTS THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE IN A DESIGNATED WASHOUT AREA (CONCRETE WASHOUT BMP)		

SEEDING / SODDING CHART



* SEE I.D.O.T SPECIFICATIONS FOR INSTALLATION AND APPLICATION REQUIREMENTS

** SUPPLEMENTAL WATERING MAYBE REQUIRED. (SEE I.D.O.T. SPECIFICATIONS FOR REQUIREMENTS)

EROSION CONTROL NOTES:

- No land disturbing activities shall not commence until approval to do so has been received by governing authorities, in addition to, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed.
- (including storm water pollution prevention plan per the development criteria.)
- The general contractor shall strictly adhere to the storm water pollution prevention plan (SWPPP) during construction operations.
- All topsoil shall be stripped prior to filling
- All exposed areas shall be seeded as specified within 14 days of final grading.
- Should construction stop for longer than 14 days, the site shall be temp. seeded.
- Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a 24–hour period or more frequently if required by governing NPDES general permit. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.
- This plan shall not be considered all inclusive as the general contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- General contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
- General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- All sedimentation and erosion control regulations shall be adhered to per the City of Aurora's requirements
- All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.
- All erosion and sediment control work shall conform to the I.D.O.T. Manual for, standards and procedures for erosion control.
- All construction will adhere to the requirements set forth in the IEPA's new construction site activities national pollutant discharge elimination system (npdes) storm water permit.
- All roadways shall be cleaned at the end of each construction day.
- All disturbed areas shall be stabilized within 7 days of active disturbance.
- All erosion control measures shall be disposed of within 30 days of final stabilization of the site.
- Ground cover for 5:1 slopes or greater shall be established as soon as possible.
- All disturbed areas to to restored w/ 4" topsoil respread & seeding/sodding unless otherwise noted on plans
- Silt filter fabric shall be placed between frame and grate until vegetation is established. (see detail)
- Utilize excelsior blanket on all slopes of 5:1 or greater.
- *Seeding per I.D.O.T. Manual, section 251,standard specifications for road and bridge construction, (latest edition) see plans for seed and blanket requirements.
- *Mulch/hydroseed per I.D.O.T. Manual, section 251, standard specifications for road and bridge construction, (latest edition
- *Mulch/hydroseed method 3 shall be used in all turf grass areas.
- No dimensions shall be assumed by scaling.
- No known drain tiles are present on the proposed development, if tiles are encountered during construction please notify the engineer immediately.
- Part of the proposed project is located within a flood hazard 10–100yr area a flood hazard area
- Excess material shall be placed at specified location unless otherwise specified by owner and approved by engineer for use of lot grading. Stockpiles shall be surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest addition) (temporary) if left more than 14 working days.
- General contractor shall notify all utility companies having underground utilities on site or in right–of–way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

PHASING NOTES:

SEQUENCE OF MAJOR ACTIVITIES – AS APPLICABLE TO PROJECT

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he or she sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan Sheet contained in this SWPPP for details and refer to the Suggested Phasing Plan in the design drawings for construction sequencing):

A. A pre–construction meeting shall be held by the Site Project Manager, and the Operator's Engineer prior to land disturbing activities.
B. Prior to disturbing the site install temporary ditch checks, perimeter silt fences and inlet protection to existing storm infrastructure in the locations shown on the Plan sheets.
C. Implement erosion control measures around the culverts and channels to prevent sedimentation from infiltrating into the storm water system.
D. Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where grading and shaping or riprap placement will be performed.
E. Commence work shown on the plans.
F. Disturbed areas of the site where Construction Activity has ceased for more than 7 days shall be temporarily seeded and watered.
G. Install inlet / outlet protection around the constructed culverts and riprap aprons to prevent sedimentation from infiltrating into the culverts and aprons as shown on the Plan sheets.
H. Temporary seed all fill slopes around perimeter of project. (if applicable).
I. Carry out final final grading bank stabilization measures with seeding and rolled erosion control products where shown on the Plan sheets.
J. Remove silt fencing and ditch checks only after all surfaces at are at least 70% growth of permanent seedings are stabilized.
K. Remove inlet protection around culverts, inlets and manholes when surfaces are stabilized.
L. Remove temporary construction exits

FAILURE TO COMPLY:

In the event a notice of violation is issued on this project, any and all fines will be the sole responsibility of the contractor. The owner, owner's representative, or other owner's agents will not participate in any payment or reimbursement for fines and will not authorize time extensions due to delays in project progress for work stoppage required to remedy the violations.

SPECIFICATIONS AND GENERAL NOTES:

NOTES:

This plan has been prepared to comply with the provisions of the NPDES Permit Number issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.

1. Site Description.

   a. The Overall project area is tributary to the Fox River.

   b. The following is a description of the construction activity which is the subject of this plan:
   The proposed improvements consists of construction of Hydraulic dredging, dewatering of dredged materials, shoreline stabilization, earthwork, HMA patching, installation of electrical services for aquatic mixing and landscaping with native vegetation. The construction activities for site improvements will include: site clearing, grubbing, mass grading, pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control measures, as a minimum.

   c. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site such as grubbing, excavation, and grading:

   The sequence of the construction activities may be as follows:
   See Sequence of major activities on this sheet.

   d. The total area of the construction site is estimated to be 4.2± acres.

   The total area if the site that is estimated to be disturbed by excavation, grading, or other activities, is 4.2± acres.

2. Controls.

   This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b above. For each measure discussed, the contractors will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

   a. Erosion and Sediment Controls.

   (i) STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site–specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a. (i) (A) and 2.b. stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portions of the site where construction activity will not occur for a period of 21 or more calendar days.

   (A) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

   The following interim and permanent stabilization practices, as a minimum will be implemented to stabilize the disturbed area of the site:

   1 Temporary Seeding
   2 Permanent seeding
   3 Erosion Blanket
   4 Barrier filter
   5 Inlet protection
   6 Outlet protection
   7 Vegetative filter
   8 Stabilized construction entrance
   9 Dust & Traffic Control

   (ii) STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.

   1. Storm sewer system
   2. Vegetated drainage swales
   3. Permanent seeding
   4. Outlet protection
   5. Filter fabric
   6. Inlet protection

   b. Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion control on the job site. The following erosion control sequence shall be adhered to:

   See Sequence of major activities on this sheet.

   Any siltation of conduits, structures, or ditches shall be cleaned and maintained by the Contractor, on a weekly basis, until the seeding has taken hold. All washouts, gullies, etc. will be regraded and reseeded by the Contractor, at the Contractor's expense.

   The Contractor's responsibility for erosion control shall extend throughout the construction process. The Contractor shall be responsible for cleanup of paved surfaces within and adjacent to the project.

   All erosion control practices shall be in compliance with the latest revision of the "Standard Specifications for Road and Bridge Construction," by the Illinois Department of Transportation and with "Standards and Specifications for Soil Erosion and Sedimentation Control" as published by the Illinois Environmental Protection Agency.

   If a topsoil stockpile location is provided and approved by the County, Contractor shall establish erosion control measures for the stockpile if it is to remain in place for more than three days. In addition, barrier filter fence shall enclose topsoil stockpile location with exception of truck access during construction hours.

   c. Stormwater Management.

   (i) Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

   The practices selected for implantation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications.

   The stormwater pollutant control measures shall include:

   1. Silt filter fence
   2. Drainage swales
   3. Storm sewers
   4. Rip–rap outlet protection
   5. Straw bale inlet protection
   6. Retention/Detention ponds

   (ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non–erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

   Stormwater Management Control includes
   1 Stone Riprap
   2 Filter Fabric
   3 Vegetative channels.
   4 Outlet protection using Gabion mattress.
   5 Inlet protection.

3. Other Controls.

   (i) Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off–site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.

   (ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.

   a. Approved State or Local Plans.

   The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil and Erosion and Sediment Control (Latest revision), Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

   b. Maintenance.

   The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

   Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right–of–way will be removed immediately.

   Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding, sodding, vegetative channels, vegetative filter, etc. shall be maintained periodically and supply adequate watering and fertilizer. The vegetative cover shall be removed and reseeded as necessary.

   Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and replaced as needed.

   Rip–rap outlet protection: It shall be inspected after high flows for any scour beneath the Rip–rap or for stones that have been dislodged. It shall be repaired immediately.
   Inlet Protection: Shall be inspected and emptied of silt if filled as required.

   Disturbed areas shall be stabilized with temporary or permanent measures within 7 calendar days following the end of active disturbance, or redisturbance, consistent with the following criteria:

   (i) Appropriate temporary or permanent stabilization measures shall include seeding, mulching, sodding, and/or non–vegetative measures.
   (ii) Areas having slopes greater than 12 percent shall be stabilized with sod, mat, or blanket in combination with seeding or equivalent.
   (iii) areas to be seeded with turf grass shall be stabilized with Mulch Method 3. No blankets shall be applied within turf grass areas.

   Soil storage piles containing more than 10 cu. yds. of material shall not be located with a downslope drainage length less than 25 feet to a roadway or drainage channel. Filter barriers, including straw bales, filter fence, or equivalent, shall be installed immediately on the down slope of the piles.

4. Inspections.

The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

   a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off–site sediment tracking.

   b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.

   c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan and actions taken in accordance with section 4.b. shall be made and retained as part of the plan for at least three (3) years after the date of the Inspection. The report shall be signed in accordance with Part VI.G of the general permit.

   d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file on "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The report of noncompliance shall be mailed to the following address:

   Illinois Environmental Protection Agency
   Division of Water Pollution Control
   Attn: Compliance Assurance Section
   2200 Churchill Road
   Post Office Box 19276
   Springfield, Illinois 62794–9276

5. Non–Stormwater Discharges.
Except for flows from fire fighting activities, sources of non–stormwater that may be combined with stormwater discharges associated with the industrial activity addressed in this plan, are described below:

   a. Water main flushing
   b. Fire hydrant flushing
   c. Watering for dust control
   d. Irrigation drainage for vegetative growth for seeding, etc..

The pollution prevention measures, as described below, will be implemented for non–stormwater components of the discharge:

The fire hydrant and water main shall not be flushed directly on the exposed area of sub grade of the pavement. Hoses shall be used to direct the flow into the storm sewer system, if available.

The erosion due to irrigation of seeding shall be considered minor.

Contractor to provide the above non–stormwater discharged control to the standard specification required by the City or the approved equal.

6. Monitoring and Management Plan
A three–year maintenance and monitoring plan is required after installation of native landscaping.
See Project Specifications for details.

CONTRACTOR'S AND SUBCONTRACTOR'S CERTIFICATE

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 PRINTED NAME AND SIGNATURE — CERTIFICATION DATE

CONTRACTOR TITLE — TELEPHONE NUMBER

CONTRACTOR COMPANY NAME AND ADDRESS

SUBCONTRACTOR'S NAME AND SIGNATURE — CERTIFICATION DATE

SUBCONTRACTOR'S TITLE — TELEPHONE NUMBER

SUBCONTRACTOR'S COMPANY NAME AND ADDRESS

SITE ADDRESS

IEPA: ILR10 PERMIT #_____

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:52 PM
FILE NAME: 191806–Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC–Standard.ctb

HRGreen
HRGreen.com
Illinois Professional Design Firm #184.001322

USER NAME = KJENKINS	DESIGNED – LG	REVISED –	
FILE NAME = 191806–Details	DRAWN – MPL	REVISED –	
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –	
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –	

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

EROSION CONTROL SPECIFICATIONS AND NOTES

SCALE: N.T.S. | SHEET NO. 01 OF 01 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	14
		CONTRACT NO. _____		
		ILLINOIS	FED. AID PROJECT	

UNITED STATES ARMY CORPS OF ENGINEERS NOTES:

1. EARTHEN COFFERDAMS OR OTHER PRACTICES THAT WOULD RESULT IN A RELEASE OF SEDIMENT INTO WATERS OF THE U.S. ARE NOT AUTHORIZED FOR USE. COFFERDAMS SHALL BE CONSTRUCTED OF NON–ERODIBLE MATERIALS ONLY. ACCEPTABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO: PRE–FABRICATED RIGID COFFERDAMS, SHEET PILING, INFLATABLE BLADDERS, SANDBAGS AND FABRIC–LINED BASINS. 1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO–FLOW CONDITIONS.

2. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.

3. WATER SHALL BE ISOLATED FROM THE IN–STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON–ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE FABRIC, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

4. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE COFFERDAM. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CAN NOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.

5. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE.THE BYPASS DISCHARGE SHALL BE PLACED ON A NON–ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT–LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.

6. DURING DEWATERING OF THE COFFERED AREA, ALL WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS.WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE–INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.

7. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PRE–CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

CITY STORMWATER PERMIT REQUIREMENTS:

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.

- SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

- STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.

- NATIVE SEED MIXTURES SHALL INCLUDE RAPID–GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION.

- OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.

- SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.

- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.

- DISTURBANCE OF STEEPS SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE SOD, EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.

- PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWNSLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.

- THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWNSLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.

- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.

- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

- STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY.

- EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.

- MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORM WATER.

- ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL

- CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.

- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION–SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT–OF–WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.

- DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM.

- ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

- DRAIN TILES WITHIN THE DISTURBED AREA OF THE DEVELOPMENT SHALL BE REPLACED, BYPASSED AROUND THE DEVELOPMENT OR INTERCEPTED AND CONNECTED TO THE DRAINAGE SYSTEM FOR THE DEVELOPMENT. THE SIZE OF THE REPLACED OR BYPASSED DRAIN TILE SHALL BE EQUIVALENT TO THE EXISTING DRAIN TILE.

- IN BUFFERS AND WETLANDS, THE EXCAVATED AREAS SHALL BE BACKFILLED WITH NATIVE SOIL IN THE SAME STRATIFICATION IN WHICH THE SOIL WAS REMOVED.

- THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENTATION CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL PRACTICES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION PRACTICES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

STANDARD NOTES:

A) 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.

B) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

C) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.

D) ALL DEWATERING OPERATIONS MUST FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 813. DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED OR PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.

E) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB–CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

F) BACKUP QUANTITIES OF BEST MANAGEMENT PRACTICES HIGHLIGHTED IN THIS PLAN WILL BE HELD ON SITE FOR IMMEDIATE CORRECTIONAL ACTION IMPLEMENTATION FOLLOWING AN INSTANCE OF NON–COMPLIANCE.

G) THE LOCAL WEATHER PROJECTIONS WILL BE CONSIDERED WHEN IMPLEMENTING THE WEEKLY CONSTRUCTION PLANS.

H) ALL TRAFFIC GOING IN AND OUT OF THE CONSTRUCTION SITE SHALL BE RESTRICTED TO STABILIZED CONSTRUCTION ENTRANCES.

I) ANY INLET FOUND WITHIN 50' OF A CONSTRUCTION ENTRANCE SHALL HAVE PROTECTION MECHANISMS IN PLACE.

J) ALL DISTURBED GROUND DIRECTLY UPLAND OF JURISDICTIONAL AREAS SHALL RECEIVE ADEQUATE PROTECTION MEASURES AT THE CONCLUSION OF EACH WORK DAY.

K) ALL DEWATERING OPERATIONS SHALL, AT MINIMUM, FOLLOW ILLINOIS URBAN MANUAL PRACTICE STANDARD 813.

L) BACKUP BEST MANAGEMENT PRACTICES SHALL BE KEPT ON SITE IN ORDER TO IMPLEMENT REQUESTS FOR IMMEDIATE CORRECTIONAL ACTION.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:52 PM
FILE NAME: 191806–Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC–Standard.ctb

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USER NAME = KJENKINS	DESIGNED – LG	REVISED –	
FILE NAME = 191806–Details	DRAWN – MPL	REVISED –	
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –	
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –	

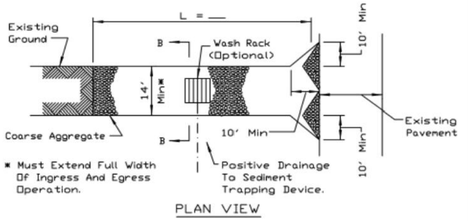
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

EROSION CONTROL NOTES

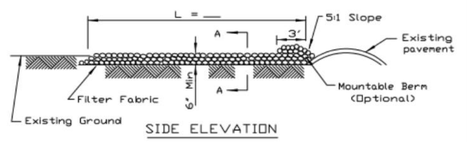
SCALE: N.T.S. | SHEET NO. 01 OF 04 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	15
		CONTRACT NO. ____		
	ILLINOIS	FED. AID PROJECT		

(SE) STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

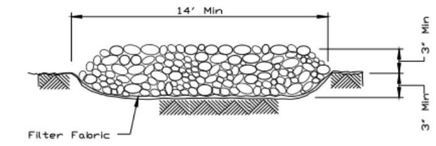
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2,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

REFERENCE
Project
Designed Date
Checked Date
Approved Date

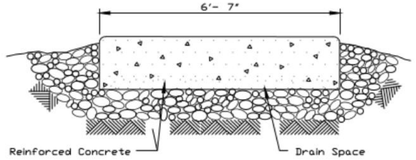
NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 1 OF 2
DATE 8-18-94

(SE) STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



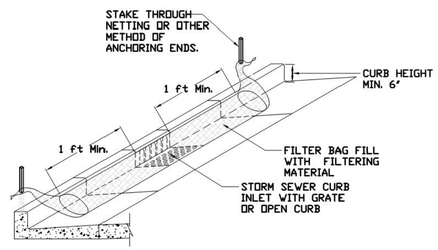
SECTION B-B

REFERENCE
Project
Designed Date
Checked Date
Approved Date

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-630
SHEET 2 OF 2
DATE 8-18-94

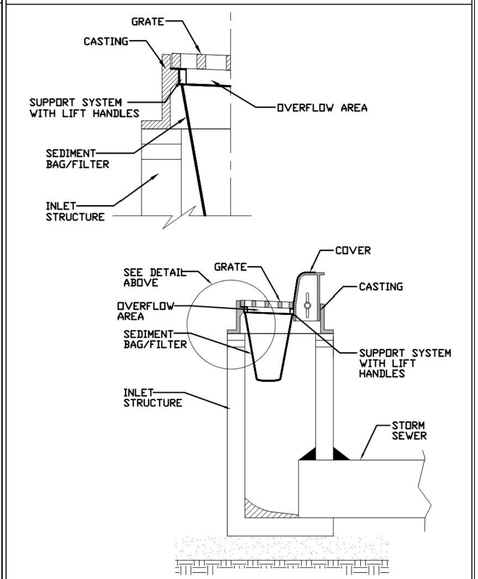
(IP) INLET PROTECTION - PAVED AREAS CURB PROTECTION



REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-561C
SHEET 1 OF 1
DATE 01-11-11

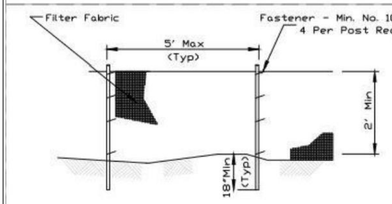
(IP) (FB) INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



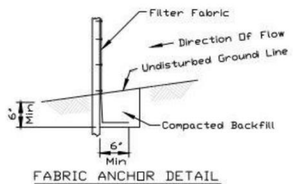
REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-561D
SHEET 1 OF 1
DATE 01-11-11

(BF) SILT FENCE PLAN



ELEVATION



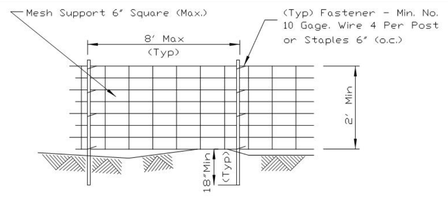
FABRIC ANCHOR DETAIL

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 based upon performance needed.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2" x 2" nominal size.

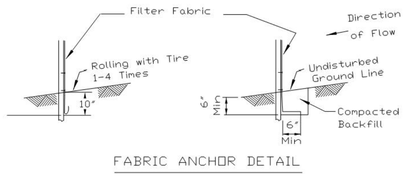
REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-620
SHEET 1 OF 2
DATE 3-16-12

(BF) SILT FENCE WITH WIRE SUPPORT PLAN



ELEVATION



FABRIC ANCHOR DETAIL

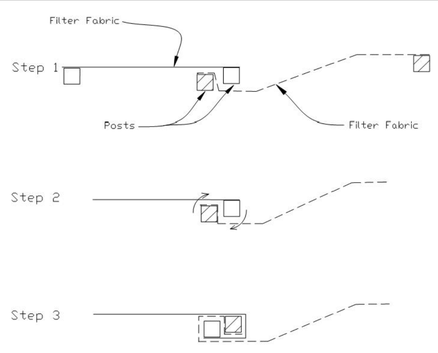
STATIC SLICE INSTALLATION TRENCH INSTALLATION

NOTES:
1. Silt 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. Silt fence shall be placed on the flattest area available.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-620A(W)
SHEET 1 OF 2
DATE 3-16-2012

(BF) SILT FENCE - SPLICING TWO FENCES

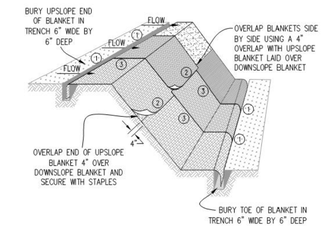


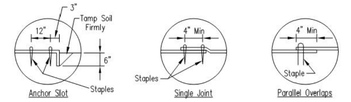
ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

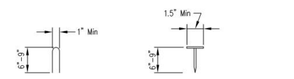
REFERENCE
Project
Designed Date
Checked Date
Approved Date

STANDARD DWG. NO. IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012





DETAIL 1 DETAIL 2 DETAIL 3



STAPLE DETAIL PUSH PIN DETAIL

NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched 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.

(EB) EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed Date
Drawn S. JOHNSON 11/08
Checked
Approved

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:53 PM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

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USER NAME = KJENKINS	DESIGNED – LG	REVISED –
FILE NAME = 191806-Details	DRAWN – MPL	REVISED –
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

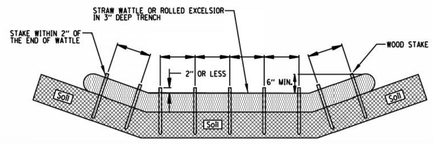
EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	16
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

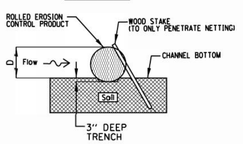
(DC) ROLLED EROSION CONTROL PRODUCTS

STAKING PATTERN GUIDE



NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
2. 4' SPACING FOR WATTLES.
3. 2' SPACING FOR ROLLED EXCELSIOR.
4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

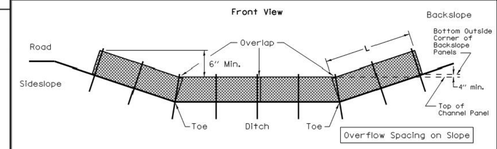
STAKE DETAIL

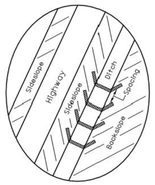


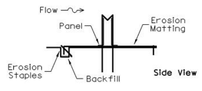
NOTES:
1. DRAWINGS ARE NOT TO SCALE.
2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 08-2-2019
Approved ____ Date ____		

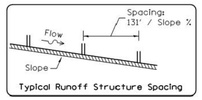
(DC) SYNTHETIC POROUS RUNOFF CONTROL STRUCTURES





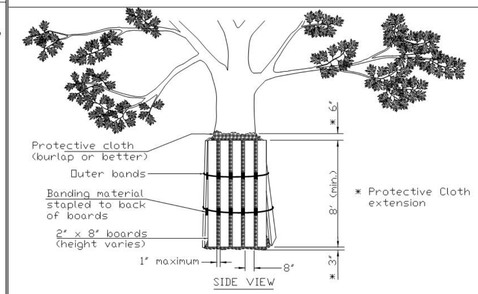


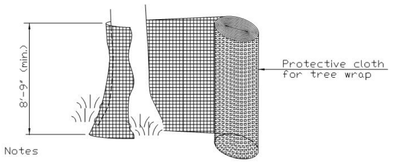
Minimum Installation Length up Slopes	
Slope	Panels
2:1	1
2.5:1	1.5
3:1	2
3.5:1	2
4:1	2
5:1	2.5
6:1	2.5



REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 8-19-11
Approved ____ Date ____		

TREE TRUNK PROTECTION



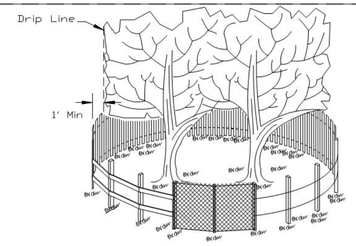


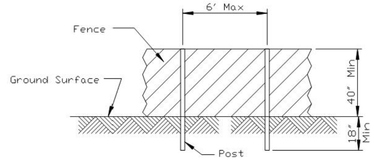
Notes

1. The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
2. The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

REFERENCE		STANDARD DWG. NO.
Project		IUM-690-C
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 09-14-2017
Approved ____ Date ____		

TREE PROTECTION - FENCING



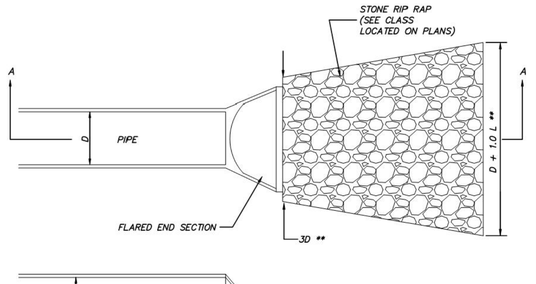


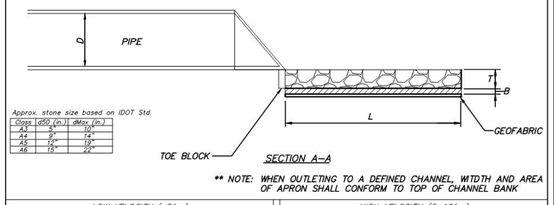
NOTES:
1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
2. Fence posts shall be either standard steel posts or wood posts with a minumum cross sectional area of 3.0 sq. in.
3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE		STANDARD DWG. NO.
Project		IL-690
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 4-7-94
Approved ____ Date ____		

NRCS Natural Resources Conservation Service

(RR) STONE RIP RAP DETAIL
FOR ANY TAILWATER CONDITION





Approx. stone size based on IDOT Std.

Class	d50 (in.)	dMax (in.)
A1	6"	10"
A4	9"	14"
A5	12"	19"
A6	15"	22"

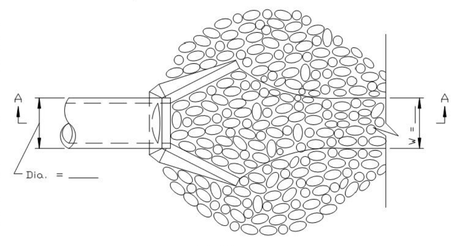
** NOTE: WHEN OUTLETING TO A DEFINED CHANNEL, WITDTH AND AREA OF APRON SHALL CONFORM TO TOP OF CHANNEL BANK

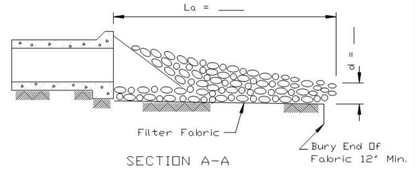
LOW VELOCITY (<5fps)					HIGH VELOCITY (5-10fps)				
D	T	L	B	–	D	T	L	B	–
Pipe Size in.	Rock Class (Min. Thickness)	Length of Apron	Bedding Class (Thickness)	Quantity SY. **	Pipe Size in.	Rock Class (Min. Thickness)	Length of Apron	Bedding Class (Thickness)	Quantity SY. **
10"	A2 (6")	10'	–	8	10"	A2 (6")	10'	–	8
12"	A3 (15")	12'	–	11	12"	A3 (15")	15'	–	16
15"	A3 (15")	13'	–	13	15"	A3 (15")	15'	–	17
18"	A3 (15")	14'	–	16	18"	A4 (16")	16'	A1 (6")	20
21"	A3 (15")	15'	–	18	21"	A4 (16")	18'	A1 (6")	25
24"	A3 (15")	16'	–	21	24"	A4 (16")	20'	A1 (6")	31
27"	A3 (15")	17'	–	25	27"	A4 (16")	21'	A1 (6")	35
30"	A3 (15")	18'	–	28	30"	A4 (16")	22'	A1 (6")	39
33"	A4 (16")	19'	A1 (6")	32	33"	A5 (22")	23'	A1 (6")	44
36"	A4 (16")	20'	A1 (6")	36	36"	A5 (22")	24'	A1 (8")	48
42"	A4 (16")	22'	A1 (6")	44	42"	A6 (26")	26'	A2 (10")	58
48"	A4 (16")	24'	A1 (6")	53	48"	A6 (26")	28'	A2 (10")	68

Note See current Illinois Department of Transportation Standard Specification to verify rock size and bedding thickness. RIPRAP

(RR) PIPE OUTLET TO CHANNEL

Pipe Outlet To Well-Defined Channel



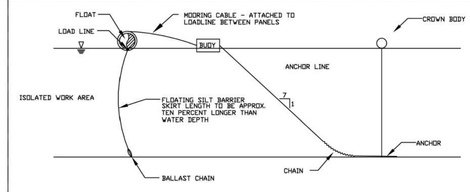


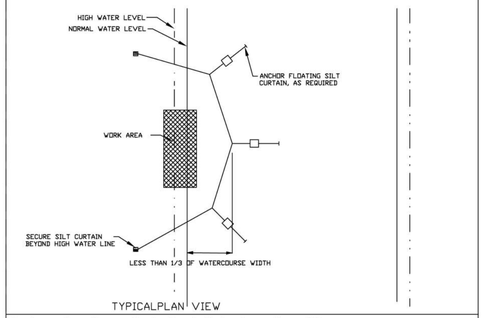
NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III .
2. The rock riprap shall meet the IDOT requirements for the following gradation ____.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK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

REFERENCE		STANDARD DWG. NO.
Project		IL-611
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

NRCS Natural Resources Conservation Service

FLOATING SILT CURTAIN - TYPICAL LAYOUT

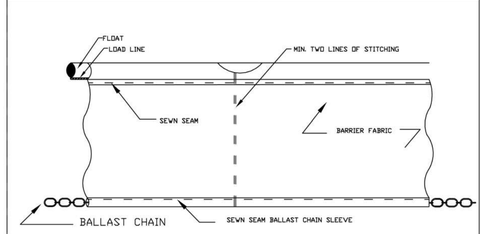


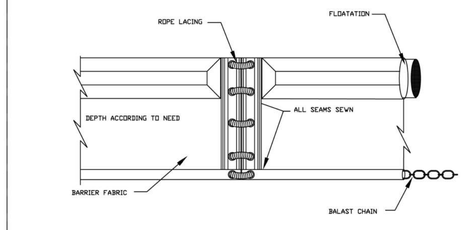


Maximum flow for waterbody shall be less than 5fps.
Isolated work area shall not exceed more than 1/3 stream width.
Silt curtain shall be placed parallel to stream flow.

REFERENCE		STANDARD DWG. NO.
Project		IUM-617A
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 1-06-2012
Approved ____ Date ____		

FLOATING SILT CURTAIN - PANEL CONNECTORS





REFERENCE		STANDARD DWG. NO.
Project		IUM-617B
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 1-6-2012
Approved ____ Date ____		

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:53 PM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

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Illinois Professional Design Firm #184.001322

USER NAME = KJENKINS	DESIGNED – LG	REVISED –	
FILE NAME = 191806-Details	DRAWN – MPL	REVISED –	
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –	
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –	

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

EROSION CONTROL DETAILS

SCALE: N.T.S. | SHEET NO. 03 OF 04 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	17
		CONTRACT NO. ____		
		ILLINOIS	FED. AID PROJECT	

Wet Mesic Prairie Seed Mixture			
Grass Mixture (6lbs per acre)			
Scientific Name	**Common Name**	**lbs/acre**	**% by Weight**
Panicum virgatum	Switch Grass	1.08	18%
Glyceria striata	Fowl Manna Grass	0.96	16%
Elymus virginicus	Virginia Wild Rye	0.96	16%
Leersia oryzoides	Rice Cut Grass	0.84	14%
Carex vulpinoidea	Brown Fox Sedge	0.36	6%
Carex lacustris	Lank-Bank Sedge	0.36	6%
Carex stricta	Tussock Sedge	0.36	6%
Carex slipata	Awl-Fruited Sedge	0.36	6%
Scirpus validus	Softstem Bulrush	0.18	3%
Scirpus fluviatilis	River Bulrush	0.18	3%
Juncus torreyi	Torrey's Rush	0.18	3%
Juncus effusus	Common Rush	0.18	3%
	Total	6	100%
Forb Mixture (2lbs per acre)			
Scientific Name	**Common Name**	**lbs/acre**	**% by Weight**
Acorus calamus	Sweet Flag	0.16	8%
Ascelepias incarnata	Swamp Milkweed	0.16	8%
Eupatorium perfoliatum	Boneset	0.12	6%
Iris virginica shrevei	Blue Flag Iris	0.16	8%
Lobelia cardinalis	Cardinal Flower	0.12	6%
Lobelia siphilitica	Great Blue Lobelia	0.12	6%
Liatris spicata	Marsh Blazing Star	0.12	6%
Liatris pycnostachya	Prairie Blazing Star	0.12	6%
Aster novae-angliae	New England Aster	0.2	10%
Physostegia virginiana	Obedient Plant	0.2	10%
Solidago riddellii	Riddel Goldenrod	0.1	5%
Rudbeckia laciniata	Cut-leaf Coneflower	0.1	5%
Rudbeckia subtomentosa	Sweet Black-eyed Susan	0.12	6%
Polygonium pensylvanicum	Pennsylvania Smartweed	0.2	10%
	Total	2	100%

Mesic Prairie Seed Mixture			
Grass Mixture			
Scientific Name	**Common Name**	**lbs/acre**	**% by Weight**
Panicum virgatum	Switch Grass	2.0	13%
Andropogon scoparius	Little Blue Stem	5.0	31%
Bouteloua Curtipendula	Side-Oats Gama	5.0	31%
Elymus Canadensis	Canada Wild Rye	1.5	9%
Sorobolus Heterolepsis	Prairie Drop Seed	0.5	3%
Sorghastrum Nutans	Indian Grass	2.0	13%
	Total	16	100%
Forb Mixture			
Scientific Name	**Common Name**	**lbs/acre**	**% by Weight**
Asclepias tuberosa	Butterfly- Weed	1.5	19%
Aster novae-angliae	New England Aster	1.5	19%
Echinacea pallida	Pale Purple Coneflower	1.5	19%
Echinacea pinnata	Yellow Coneflower	1.5	19%
Eryngium yuccifolium	Rattlesnake Master	0.5	6%
Liatris pyscostachya	Prairie Blazing Star	0.5	6%
Monarda fistulosa	Wild Bergamont	0.15	2%
Petalostemum purpurea	Purple Prairie Clover	0.25	3%
Rudbeckia hirta	Black-eyed Susan	0.15	2%
Tradescantia ohiensis	Spiderwort	0.05	1%
Solidago rigida	Rigid Goldenrod	0.15	2%
Penstemon digitalis	Foxglove Beard Tongue	0.25	3%
	Total	8	100%

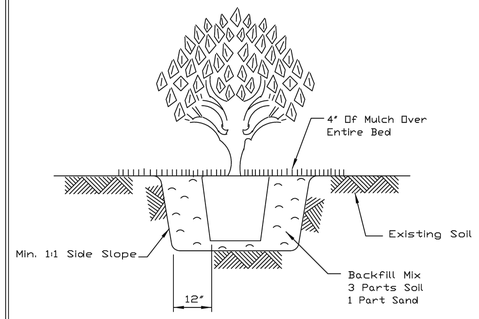
Temporary Cover Crop			
For use in all seed zones			
Scientific Name	**Common Name**	**lbs/acre**	**% by Weight**
Avena sativa	Common Oats	25.0	50%
Elymus Sp.	Annual Rye Grass	25.0	50%
	Total	50	100%

Emergent Wetland Plant Plugs					
Scientific Name	**Common Name**	**Notes**	**Spacing O.C**	**# Plugs**	**% of Mix**
Iris virginica shrevei	Blue Flag Iris	2" above to 2" below NWL	30"	480	15%
Carex vulpinoidea	Brown Fox Sedge	2" above to 2" below NWL	30"	480	15%
Juncus effusus	Common Rush	2" above to 2" below NWL	30"	320	10%
Sagittaria latifolia	Common Arrowhead	2" below to 6" below NWL	30"	320	10%
Scirpus fluviatilis	River Bulrush	2" below to 6" below NWL	30"	800	25%
Sparganium eurycarpum	Common Bur Reed	2" below to 6" below NWL	30"	800	25%
			Total	3200	100%

Wet Mesic Plant Plant Plugs					
Scientific Name	**Common Name**	**Notes**	**Spacing O.C**	**# Plugs**	**% of Mix**
Iris virginica shrevei	Blue Flag Iris	less than 12" above NWL	30"	456	12%
Carex vulpinoidea	Brown Fox Sedge	less than 24" above NWL	30"	1520	40%
Lobelia cardinalis	Cardinal Flower	12" to 24" from NWL	30"	456	12%
Eryngium yuccifolium	Rattlesnake Master	12" to 24" from NWL	30"	456	12%
Liatris spicata	Marsh Blazing Star	12" to 24" from NWL	30"	456	12%
Ascelepias incarnata	Swamp Milkweed	12" to 24" from NWL	30"	456	12%
			Total	3800	100%

Shrubs				
Scientific Name	**Common Name**	**Notes**	**Spacing O.C**	**# Shrubs**
Symphoricarpos orbiculatus	Coral Berry	More than 4' from NWL	48"	55

PLANTING PROCEDURE FOR SHRUBS



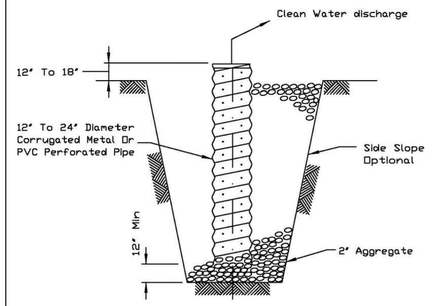
No Scale

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-689
SHEET 1 OF 1
DATE 8-25-93

SUMP PIT PLAN



SECTION

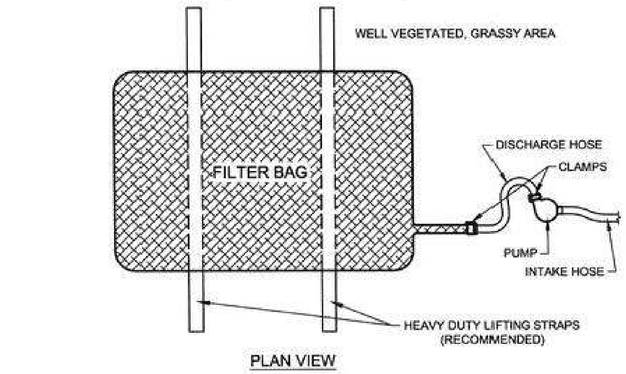
NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-650
SHEET 1 OF 1
DATE 8-11-94

Pumped Water Filter Bag

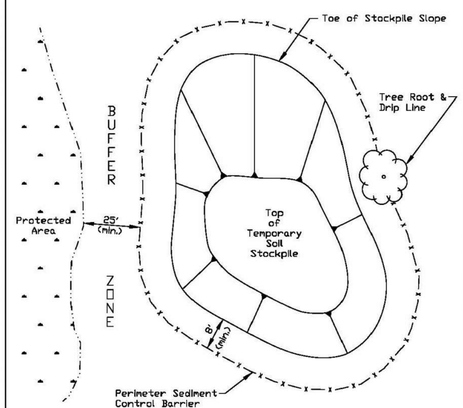


PLAN VIEW



ELEVATION VIEW

TEMPORARY SOIL STOCKPILE DETAIL

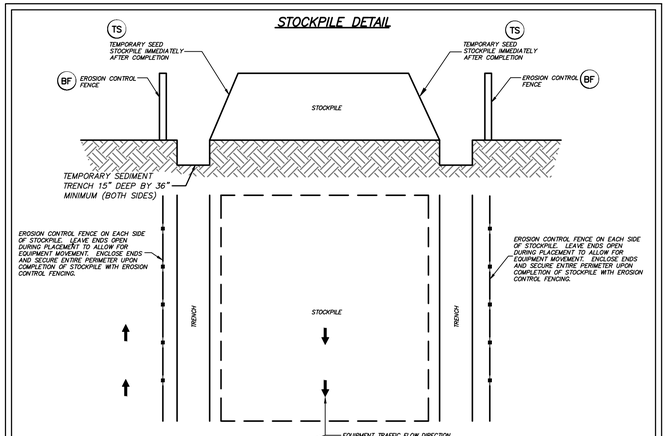


NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over 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
Project
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

STANDARD DWG. NO. IUM-627
SHEET 1 OF 1
DATE JANUARY 2017

STOCKPILE DETAIL



NOTE: STOCKPILE IS REQUIRED FOR MATERIAL IMPORT FOR FUTURE SITE GRADING. STOCKPILE LOCATION SHOWN AS APPROXIMATE AND CONTRACTOR TO VERIFY EXACT LOCATION WITH OWNER

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:53 PM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

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USER NAME = KJENKINS		DESIGNED – LG		REVISED –	
FILE NAME = 191806-Details		DRAWN – MPL		REVISED –	
PLOT SCALE = N.T.S.		CHECKED – AJ/LG		REVISED –	
PLOT DATE = 4/12/2024		DATE – 10/05/2021		REVISED –	

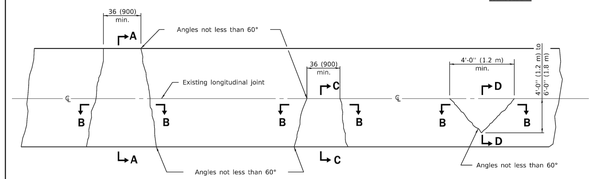
CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

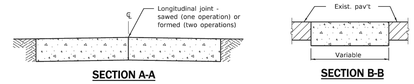
EROSION CONTROL DETAILS

SCALE: N.T.S. | SHEET NO. 04 OF 04 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	18
		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		

CLASS C



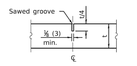


SECTION A-A

SECTION B-B

SECTION C-C

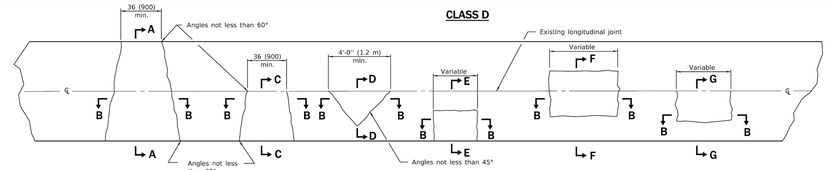
SECTION D-D

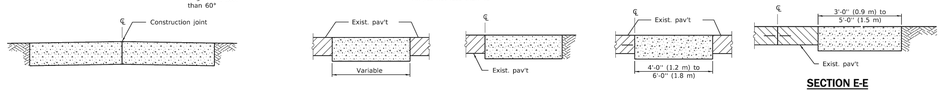


DETAIL OF SAWED CONTRACTION JOINT

Note:
Longitudinal joints shall be as detailed on Standard 420001, except tie bars are not required for patches 20'-0" (6.0 m) or less in length.

CLASS D





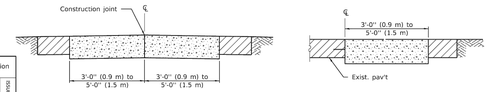
SECTION A-A
(Built in two operations)

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E



SECTION F-F
(Built in two operations)

SECTION G-G

GENERAL NOTES

Existing tie bars shall be either cut or removed. Marginal bars shall be cut.

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

Illinois Department of Transportation

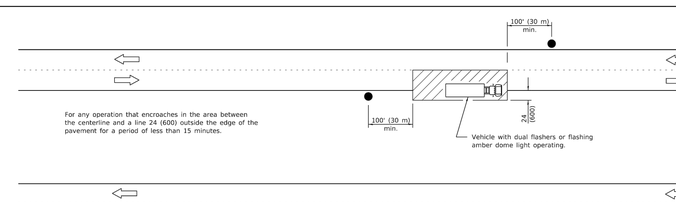
PASSED January 1, 2008
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

D-SERIES 1 of 1

DATE	REVISIONS
1-1-08	Switched units to English (metric).
1-1-07	Revised Note for Class C patches.

CLASS C and D PATCHES

STANDARD 442201-03



SIGN SPACING	
Posted Speed	Sign Spacing
55	500' (150 m)
50-45	350' (100 m)
<45	200' (60 m)

(1) = Refer to SIGN SPACING table for distances.

TYPICAL APPLICATIONS

Marking patches
Field survey
String line
Utility operations
Cleaning up debris on pavement

SYMBOLS

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

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

Illinois Department of Transportation

PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

D-SERIES 1 of 1

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

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

STANDARD 701301-04

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:53 PM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

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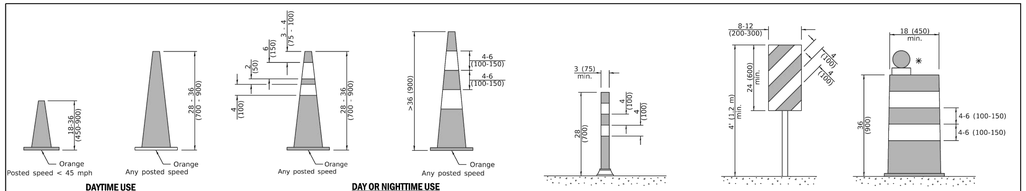
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FILE NAME = 191806-Details	DRAWN – MPL	REVISED –	
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –	
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –	

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

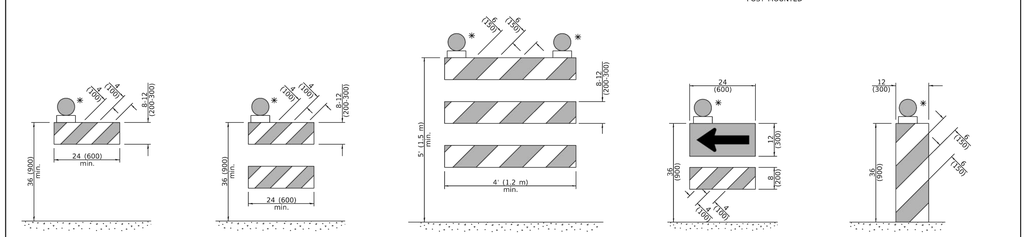
IDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. 01 OF 02 SHEETS | STA. | TO STA.

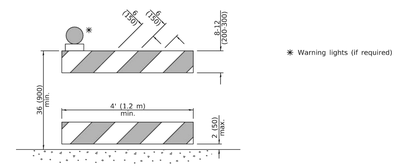
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	19
		CONTRACT NO. _____		
	ILLINOIS	FED. AID PROJECT		



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



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



DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

✳ Warning lights (if required)

GENERAL NOTES

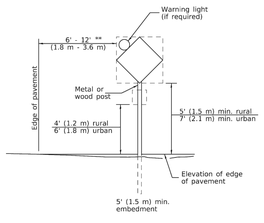
All heights shown shall be measured above the pavement surface.

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

Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY, PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
BDE/ISTP - 1-1-19

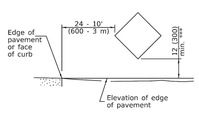
DATE	REVISIONS
1-1-19	Revised cone usage and
	added cones >36" (900 m) height.
1-1-18	Revised END WORK ZONE
	SPEED LIMIT sign from
	orange to white background.

TRAFFIC CONTROL DEVICES
(Sheet 1 of 3)
STANDARD 701901-08



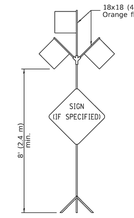
POST MOUNTED SIGNS

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



SIGNS ON TEMPORARY SUPPORTS

*** When work operations exceed four days, this dimension shall be 5' (1.5 m) min. If located behind other devices, the height shall be sufficient to be seen completely above the devices.



HIGH LEVEL WARNING DEVICE

ROAD CONSTRUCTION NEXT X MILES — G20-1104(0)-6036

END CONSTRUCTION — G20-1105(0)-6024

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

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

END CONSTRUCTION sign shall be erected at the end of the job unless another job is within 2 miles (3200 m).

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

WORK LIMIT SIGNING

WORK ZONE	W21-1l5(0)-3618
SPEED LIMIT XX	R2-1-3648
PHOTO ENFORCED	R10-1108p-3618 ****
$XXX FINE MINIMUM	R2-1106p-3618

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

END WORK ZONE SPEED LIMIT — G20-1103-6036

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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

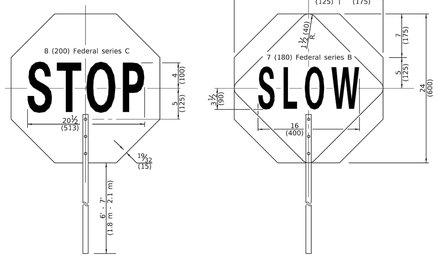
**** R10-1108p shall only be used along roadways under the jurisdiction of the State.



W12-1103-4848

WIDTH RESTRICTION SIGN

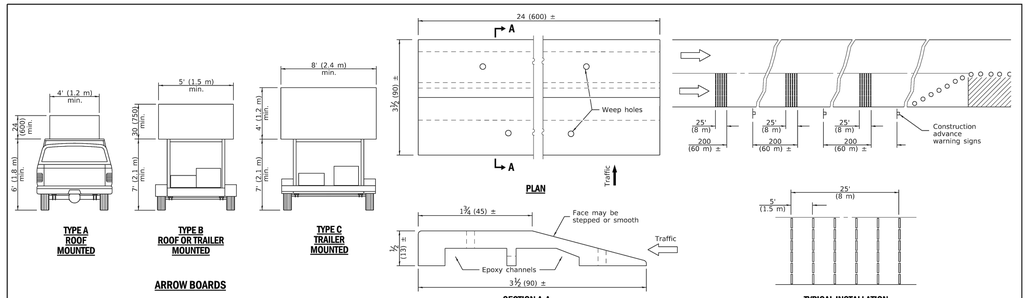
XX'-XX" width and X miles are variable.



FLAGGER TRAFFIC CONTROL SIGN

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TRAFFIC CONTROL DEVICES
(Sheet 2 of 3)
STANDARD 701901-08



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

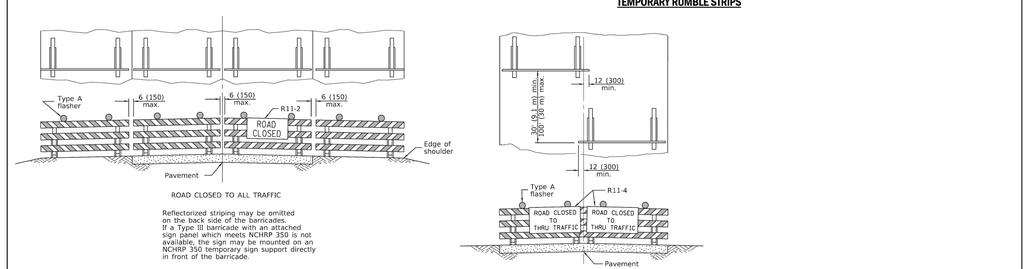
ARROW BOARDS

PLAN

SECTION A-A

TYPICAL INSTALLATION

TEMPORARY RUMBLE STRIPS



Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.

TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD

Reflectorized striping shall appear on both sides of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the signs may be mounted on NCHRP 350 temporary sign supports directly in front of the barricade.

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TRAFFIC CONTROL DEVICES
(Sheet 3 of 3)
STANDARD 701901-08

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 4/12/2024 4:53 PM
FILE NAME: 191806-Details
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

HRGreen
HRGreen.com
Illinois Professional Design Firm #184.001322

USER NAME = KJENKINS	DESIGNED – LG	REVISED –	
FILE NAME = 191806-Details	DRAWN – MPL	REVISED –	
PLOT SCALE = N.T.S.	CHECKED – AJ/LG	REVISED –	
PLOT DATE = 4/12/2024	DATE – 10/05/2021	REVISED –	

CITY OF AURORA
MASTODON LAKE
SHORELINE RESTORATION PROJECT

IDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. 02 OF 02 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		KANE	23	20
		CONTRACT NO. _____		
		ILLINOIS	FED. AID PROJECT	