SITE IMPROVEMENT PLANS FOR

NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

KENDALL COUNTY, ILLINOIS

WBK PROJECT NO. 210222

SECTION NO. 21-00162-00-DR

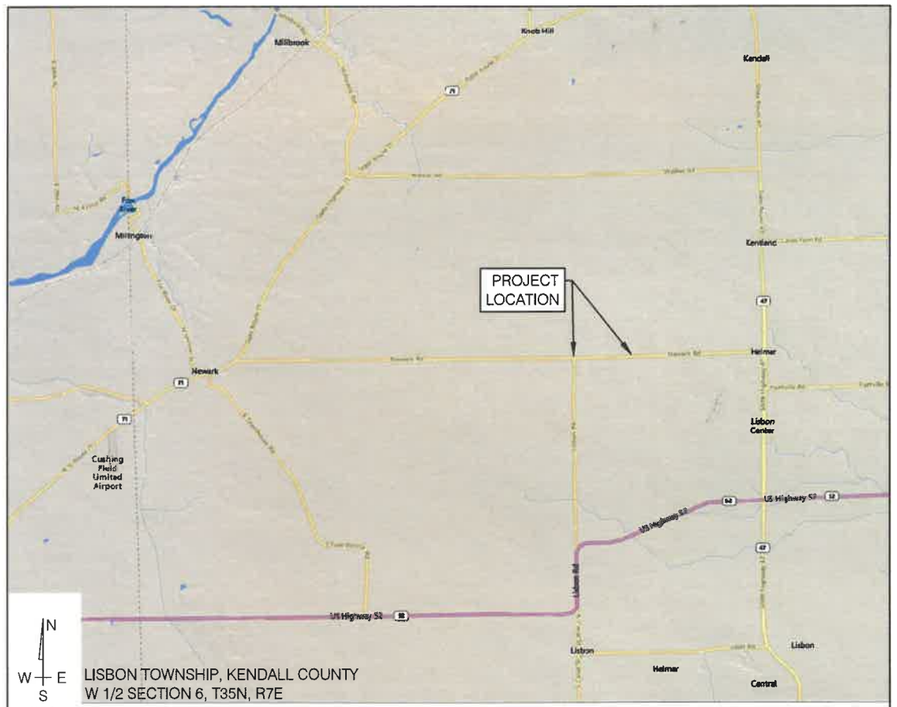
PLAN LEGEND

EXISTING	LINETYPES	PROPOSED
	DRAIN TILE	
	STORM SEWER	
	SANITARY SEWER	
W 8"	WATER MAIN (W/ SIZE)	W 8"
	PIPE TRENCH BACKFILL	
G G	GAS MAIN	G G
T T	TELEPHONE LINES	T T
E E	ELECTRIC LINE	E E
	FENCE	
	RIGHT-OF-WAY	
	EASEMENT	
	PROPERTY LINE	
	SETBACK LINE	
	CENTERLINE	
680	CONTOUR	680
	GUARDRAIL	
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	INLET	
	SUMP STRUCTURE	
	FIRE HYDRANT	
	PRESSURE CONNECTION	
	VALVE & VAULT, VALVE	
	FLARED END SECTION	
	STREET LIGHT	
	UTILITY POLE	
	CONTROL POINT	
	SIGN	
XXX.XX	SPOT ELEVATION	XXX.XX
	OVERLAND FLOW ROUTE	
	DRAINAGE SLOPE	
	TREE, EVERGREEN, SHRUB & PROPOSED TREE TO REMOVE	

PERMITS

AGENCY	DATE	PERMIT #
IEPA (NPDES ILR10 – NOI)		

LOCATION MAP



BENCHMARK ELEVATION: 695.47 DESCRIPTION: SEE SHEET 3 FOR BENCHMARK INFORMATION

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REVISIONS

ORIGINAL PLAN DATE: 4/22/2022

#	SHEET #	DESCRIPTION	DATE
#1	ALL	50% PLAN SUBMITTAL	10/18/21
#2	ALL	95% PRE-FINAL SUBMITTAL	12/17/21
#3	ALL	100% ISSUED FOR BID	1/28/22
#4	ALL	100% ISSUED FOR BID	4/22/22

CLIENT

KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

COUNTY ENGINEER

ENGINEER 9-9-23 DATE SEAL

FRANCIS C. KLAAS, P.E.

ILLINOIS REGISTRATION NO.: 062-044539
EXPIRATION DATE: 11/30/2023

THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

CIVIL ENGINEER

ENGINEER 4/22/2022 DATE

VINCENT R. DI PRIMA, P.E.

ILLINOIS REGISTRATION NO.: 062-064196
EXPIRATION DATE: 11/30/2023

THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE, SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM

CALL J.U.L.I.E. 1-800-892-0123
48 HOURS BEFORE YOU DIG

WBK ENGINEERING

WBK ENGINEERING, LLC

116 WEST MAIN STREET, SUITE 201, ST. CHARLES, ILLINOIS 60174
P: 630.443.7755 F: 630.443.0533 WWW.WBKENGINEERING.COM

PROFESSIONAL DESIGN FIRM NO. 184.007317
EXPIRATION DATE: 04/30/2023

ISSUED FOR BID

REFERENCED SPECIFICATIONS AND CODES

THE FOLLOWING DOCUMENTS SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, ALWAYS UTILIZING THE LATEST EDITION. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISION SHALL APPLY. THE CITED DOCUMENTS, COMBINED WITH THESE CONSTRUCTION PLANS AND ASSOCIATED PROJECT SPECIFICATIONS, ARE ALL TO BE CONSIDERED PART OF THE WORK. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED PART OF THESE IMPROVEMENTS.

1) THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (SSRBC) AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

2) THE ILLINOIS DEPARTMENT OF TRANSPORTATION "CULVERT MANUAL".

3) THE ILLINOIS DEPARTMENT OF TRANSPORTATION "BUREAU OF LOCAL ROADS AND STREETS MANUAL", AS WELL AS ALL OTHER APPLICABLE CODES, DETAILS, SPECIFICATIONS, AND STANDARD PRACTICES OF ILLINOIS DEPARTMENT OF TRANSPORTATION.

4) THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

5) THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY "ILLINOIS URBAN MANUAL" (IUM).

6) THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD).

7) SECTION 404 OF THE CLEAN WATER ACT, SECTION 10 OF THE RIVERS AND HARBORS ACT OF 1899, AND THE RULES AND REGULATIONS ENFORCED BY THE US ARMY CORPS OF ENGINEERS, CHICAGO DISTRICT.

8) THE ILLINOIS ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT.

9) THE KENDALL COUNTY STORMWATER MANAGEMENT ORDINANCE AND ASSOCIATED TECHNICAL REFERENCE MANUAL, AS WELL AS ALL OTHER APPLICABLE CODES, ORDINANCES, DETAILS, SPECIFICATIONS, AND STANDARD PRACTICES OF KENDALL COUNTY.

GENERAL PROJECT NOTES

1) ALL CONTRACTORS ARE ADVISED TO VISIT THE SITE PRIOR TO SUBMITTING BIDS.

2) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

3) PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THEY MUST BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY WORK BEGINS. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED AT THEIR OWN RISK AND EXPENSE.

4) IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR PROJECT DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED

5) AT THEIR OWN RISK AND EXPENSE.

6) IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR PROJECT DETAILS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

7) THE CONTRACTOR SHALL DESIGNATE A JOB SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR ENSURING THAT THE CONTRACTOR COMPLLIES WITH THE PROJECT PLANS AND SPECIFICATIONS.

8) AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL NOTIFY ALL TESTING AGENCIES AS CONTRACTED BY THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. FAILURE TO NOTIFY SUCH AGENCIES RESULTING IN THE TESTING AGENCIES BEING UNABLE TO VISIT THE SITE WILL RESULT IN THE CONTRACTOR SUSPENDING OPERATIONS THAT PERTAIN TO TESTING UNTIL THE TESTING AGENCIES ARE PRESENT ON-SITE. ANY COSTS ASSOCIATED WITH THIS SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.

9) AS REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY RESPONSE AGENCIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES. AT NO TIME SHALL ACCESS TO BUILDINGS AND ROADWAYS WITHIN THE PROJECT LIMITS BE DENIED UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

THE CONTRACTOR'S SUPERINTENDENT SHALL BE REQUIRED TO MAINTAIN IN THEIR POSSESSION AT ALL TIMES A COPY OF THE APPROVED ENGINEERING PLANS, SPECIFICATIONS AND ALL PROJECT PERMITS

GENERAL PROJECT NOTES (CONTINUED)

10) ANY EXISTING SIGNS, LIGHT STANDARDS OR UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED FOR REMOVAL SHALL BE KEPT OPERATIONAL AND MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE. THIS SHALL INCLUDE THE TEMPORARY REMOVAL, RELOCATION AND/OR RESETTING OF SUCH ITEMS AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER AND/OR OWNER. ANY ITEMS THAT ARE NOT TO BE RESET SHALL BE DELIVERED TO THEIR RESPECTIVE OWNER.

11) THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND ANY OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. FAILURE TO PROVIDE PROTECTION RESULTING IN DAMAGES TO EXISTING ROADWAYS, SIDEWALKS, CURBS, UTILITY STRUCTURES AND OTHER PUBLIC INFRASTRUCTURE WILL REQUIRE THE CONTRACTOR TO MAKE REPAIRS AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.

12) THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL BENCHMARKS, SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER OR THE OWNER'S REPRESENTATIVE HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

13) THE CONTRACTOR SHALL NOT DELIVER AND STORE ANY MATERIALS ON THE PROJECT SITE MORE THAN SEVEN (7) DAYS IN ADVANCE OF COMMENCING WORK. ALL STORAGE LOCATIONS MUST BE APPROVED IN ADVANCE BY THE ENGINEER. STORAGE LOCATIONS THAT FALL OUTSIDE THE PROJECT LIMITS WILL NOT BE ALLOWED. NO PORTION OF THE ROADWAY MAY BE USED FOR MATERIAL STORAGE AT ANY POINT

14) DURING CONSTRUCTION.

15) ALL REPAIRS AND/OR REPLACEMENTS TO THE PARKWAY, PAVEMENT, CURBS, SIDEWALKS ETC. AS A RESULT OF DAMAGE DUE TO MATERIAL STORAGE ACTIVITIES SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.

THE ENGINEER WILL INSPECT ALL WORK PRIOR TO FINAL APPROVAL. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE MADE UNTIL ALL WORK HAS BEEN APPROVED AND CERTIFIED COMPLETE BY THE ENGINEER.

EXISTING UTILITIES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL EXISTING UTILITY FACILITIES AND THEIR EXACT LOCATIONS. PRIOR TO COMMENCEMENT OF SITE DITURBING ACTIVITIES, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1-800-892-0123 FOR FIELD LOCATION OF BURIED UTILITIES. A MINIMUM 48-HOUR NOTIFICATION PERIOD IS REQUIRED.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE PROPOSED IMPROVEMENTS, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER.

TO THE BEST OF OUR KNOWLEDGE, EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTLITIES LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY ARE SHOWN ON THE PLANS IN ACCORDANCE WITH AVAILABLE RECORDS.

THE CONTRACTOR SHALL NOTIFY EXISTING UTILITY COMPANIES AT LEAST 72 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.

THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES INVOLVED WITH THE REMOVAL, TEMPORARY RELOCATION, SUPPORT, PROTECTION, RECONSTRUCTION OR ABANDONMENT BY THESE COMPANIES OF ANY AND ALL SERVICES OR FACILITIES OWNED OR OPERATED BY THEM WITHIN THE PROJECT LIMITS.

EXCAVATION, PROPOSED UTILITIES AND SITE GRADING

1) THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND SHALL PROVIDE FIELD ENGINEERING SERVICES TO PERFORM SUCH WORK.

2) THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEY AND SHALL PROVIDE FIELD ENGINEERING SERVICES TO PERFORM SUCH WORK.

3) THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION LAYOUT STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE CONTRACTOR AT THEIR OWN EXPENSE.

4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SHORING AND BRACING, SHEET PILING, UPRIGHTS, STRINGERS, CROSS BRACES, TRENCH BOXES, ETC. AS REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENTS. THIS WORK SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.

5) THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER.

6) IN THE EVENT THAT UNSTABLE/SOFT MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE DECISION TO REMOVE SAID MATERIALS, AND TO WHAT EXTENT, SHALL BE MADE BY THE ENGINEER.

7) PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATIONS OF ALL UTILITY CONNECTIONS SO AS TO AVOID CONFLICTS DURING CONSTRUCTION. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THEY MUST BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE ANY WORK BEGINS. FAILURE TO REPORT SUCH DIFFERENCES WILL RESULT IN THE CONTRACTOR HAVING BEEN DETERMINED TO PROCEED AT THEIR OWN

8) RISK AND EXPENSE.

9) NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE ENGINEER. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT OF ANY ASPHALT OR CONCRETE AFTER FORMS HAVE BEEN SET.

10) THE CONTRACTOR SHALL WORK BASED ON THEIR OWN EXPLORATIONS AND OBSERVATIONS TO DETERMINE CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.

11) THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE TO FINISHED GRADE UNLESS OTHERWISE NOTED.

12) STATIONS AND OFFSETS SHOWN ON THE CONSTRUCTION PLANS FOR UTILITY STRUCTURES ARE TO THE CENTER OF THE STRUCTURE. RIM ELEVATIONS SHOWN FOR UTILITY STRUCTURES ARE TO PAVEMENT/FINISHED GRADE ELEVATION. STATIONS AND OFFSETS SHOWN FOR FLARED END SECTIONS ARE TO THE TOP MID-POINT OF THE TOE OF THE FLARED END SECTION.

13) DUE TO SPACE CONSTRAINTS, IT IS REQUIRED THAT TOPSOIL WILL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN OFF-SITE LOCATION. THE CONTRACTOR SHALL NOT BE ALLOWED TO STRIP, STOCKPILE AND RESPREAD EXISTING TOPSOIL ON THE SITE. THE REMOVAL OF EXISTING TOPSOIL SHALL BE PAID FOR AS "EARTH EXCAVATION".

14) THE CONTRACTOR SHALL ONLY BE PAID FOR EARTHWORK ONCE, REGARDLESS OF STAGING AND HOW MANY TIMES THE EXCAVATED MATERIALS ARE HANDLED. HANDLING OF EXCAVATED MATERIALS MORE THAN ONCE TO BETTER FACILITATE CONSTRUCTION ACTIVITIES SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

15) ALL EXCAVATION AND EMBANKMENT LOCATIONS SHALL BE CONSTRUCTED TO FOUR (4) INCHES BELOW FINISHED GRADE TO ALLOW FOR PLACEMENT OF TOPSOIL MATERIALS.

16) THE SUB-GRADE SHALL BE GRADED TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS.

17) EMBANKMENT MATERIAL SHALL BE PLACED IN LOOSE LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION. FILL MATERIALS SHALL NOT BE PLACED OVER EXISTING TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

18) THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. IF ADDITIONAL WORK IS REQUIRED DUE TO THE CONTRACTOR'S FAILURE TO FACILITATE POSITIVE DRAINAGE DURING CONSTRUCTION, SUCH WORK SHALL BE COMPLETED AT THE CONTRACTOR'S OWN EXPENSE.

IN THE EVENT THAT WATER ENTERS AN EXCAVATION, THE CONTRACTOR SHALL REMOVE SUCH WATER IN A TIMELY MANNER TO PREVENT SOFTENING AND OTHER SOIL CHANGES DETRIMENTAL TO SUBGRADE STABILITY. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PUMPS, SUMPS, DISCHARGE LINES AND OTHER NECESSARY COMPONENTS TO MAINTAIN A DEWATERING SYSTEM TO CONVEY WATER AWAY FROM EXCAVATIONS AS DIRECTED BY THE ENGINEER.

TOPOGRAPHIC SURVEY

1) THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 88.

2) THE TOPOGRAPHIC SURVEY FOR THIS PROJECT WAS COMPLETED ON FEBRUARY 3, 2020 BY WBK ENGINEERING, LLC. SUPPLEMENTAL PROJECT SURVEYS WERE COMPLETED ON SEPTEMBER 4, 2020 AND NOVEMBER 23, 2020 BY WBK ENGINEERING, LLC.

SOIL EROSION AND SEDIMENT CONTROL

1) ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SHALL BE IN ACCORDANCE WITH THE PROJECT SWPPP AND ALL PROJECT PERMITTING REQUIREMENTS. ALL PRE-CONSTRUCTION DEVICES AND MEASURES MUST BE IN PLACE PRIOR TO THE START OF SOIL-DISTURBING CONSTRUCTION ACTIVITIES.

2) THE CONTRACTOR SHALL MAINTAIN ALL STREETS, DRIVEWAYS, PARKING AREAS AND RIGHTS-OF-WAY FREE OF MUD, SOIL AND CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL CLEAN STREETS OF THESE ITEMS AS DIRECTED BY THE ENGINEER OR AT THE END OF EACH WORKING DAY AT A MINIMUM.

3) NO CONSTRUCTION EQUIPMENT OR VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE WASTE MATERIALS, CLEANERS OR WASHWATERS WILL BE INTRODUCED INTO OR FLOW DIRECTLY INTO STORM SEWER SYSTEMS OR WATERCOURSES.

4) THE CONTRACTOR SHALL MONITOR WEATHER FORECASTS AND IMMEDIATELY REMOVE ALL EQUIPMENT (INCLUDING ANY FUEL, EXPLOSIVES OR OTHER HAZARDOUS MATERIAL) FROM FLOOD PRONE AREAS IN THE EVENT OF ISSUANCE OF ANY FLOOD WATCHES OR

5) WARNINGS.

6) AT THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL REMOVE ANY LOOSE MATERIAL THAT HAS BEEN DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES OR GUTTERS SUCH THAT THE FLOW OF WATER IS NOT IMPEDED. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF ALL DIRT AND DEBRIS PRIOR TO FINAL PROJECT INSPECTION.

7) ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED IN GOOD WORKING ORDER THROUGHOUT THE DURATION OF CONSTRUCTION. DAMAGED OR INEFFECTIVE DEVICES AND MEASURES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER WITHIN A PERIOD OF 24 HOURS.

THE CONTRACTOR SHALL NOT REMOVE ANY SOIL EROSION AND SEDIMENT CONTROL DEVICES OR MEASURES FROM OPERATION UNTIL DIRECTED TO DO SO BY THE ENGINEER.

PERMITS

THE FOLLOWING PERMITS ARE REQUIRED FOR THIS PROJECT. ALL PERMITS MUST BE ISSUED AND IN HAND PRIOR TO COMMENCEMENT OF CONSTRUCTION.

1) ILLINOIS ENVIRONMENTAL PROTECTION AGENCY NPDES ILR10 PERMIT – NOTICE OF INTENT (NOI)

REMOVALS

1) ITEMS SPECIFIED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THEIR OWN EXPENSE. THE CONTRACTOR SHALL IDENTIFY AND COMMUNICATE TO THE ENGINEER ALL LOCATIONS THAT ARE TO BE UTILIZED FOR SUCH DISPOSAL.

2) THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL OF DELETERIOUS MATERIALS AS REQUIRED BY THE ENGINEER.

3) ITEMS SPECIFIED FOR REMOVAL SUCH AS PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBS, ETC. SHALL BE CUT WITH A PAVEMENT SAW PRIOR TO REMOVAL. SAW CUTS SHALL BE MADE AT THE REMOVAL LIMITS OF THE ITEM BEING REMOVED AS MARKED BY THE ENGINEER.

4) THE CONTRACTOR SHALL NOT DAMAGE, REMOVE OR OTHERWISE IMPACT ITEMS NOT SPECIFIED FOR REMOVAL ON THE PROJECT PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. IN THE EVENT THAT AN ITEM IS DAMAGED OR REMOVED, THE CONTRACTOR SHALL RESTORE THE ITEM TO IT'S ORIGINAL CONDITION AT THEIR OWN EXPENSE.

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

GENERAL NOTES AND SPECIFICATIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
GN210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222

DATE : 4/22/2022

DRAWING NO. GN1

SHEET:

UPDATED: 1/27/2022 - SGIELVANGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

SUMMARY OF QUANTITIES

ITEM NO.	IDOT CODE	ITEM	UNIT	QUANTITY
1	20200100	EARTH EXCAVATION	CU YD	1000.00
2	20201200	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10.00
3	20800150	TRENCH BACKFILL	TON	189.00
4	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	121.00
5	21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	8670.00
6	21400100	GRADING AND SHAPING DITCHES	FOOT	320.00
7	25000210	SEEDING CLASS 2A	ACRE	1.79
8	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	162.00
9	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	162.00
10	25100630	EROSION CONTROL BLANKET	SQ YD	8670.00
11	28000305	TEMPORARY DITCH CHECKS	FOOT	200.00
12	28100107	STONE RIPRAP, CLASS A4, 16"	SQ YD	109.00
13	28200200	FILTER FABRIC	SQ YD	109.00
14	30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	20.00
15	35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	223.00
16	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	223.00
17	40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	TON	117.00
18	44000100	PAVEMENT REMOVAL	SQ YD	36.00
19	44000157	HMA SURFACE REMOVAL, 2"	SQ YD	629.00
20	44201747	CLASS D PATCHES, TYPE IV 8"	SQ YD	160.00
21	48101500	AGGREGATE SHOULDERS, TYPE B, 6"	SQ YD	80.00
22	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	50.00
23	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	2.00
24	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 30"	EACH	6.00
25	550A0410	STORM SEWERS, CLASS A, TYPE 2 24" (RCP)	FOOT	84.00
26	550A0430	STORM SEWERS, CLASS A, TYPE 2 30" (RCP)	FOOT	205.00
27	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	3.00
28	X5509900	ABANDON AND FILL EXISTING STORM SEWER	FOOT	52.00
29	X5510100	STORM SEWER REMOVAL (SPECIAL)	FOOT	132.00
30	X7010218	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.00
31	Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00

TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS
SUMMARY OF QUANTITIES

DSGN. TLB
DWN. TLB
CHKD. VDP
SCALE : AS NOTED
SOQ210222.DWG

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

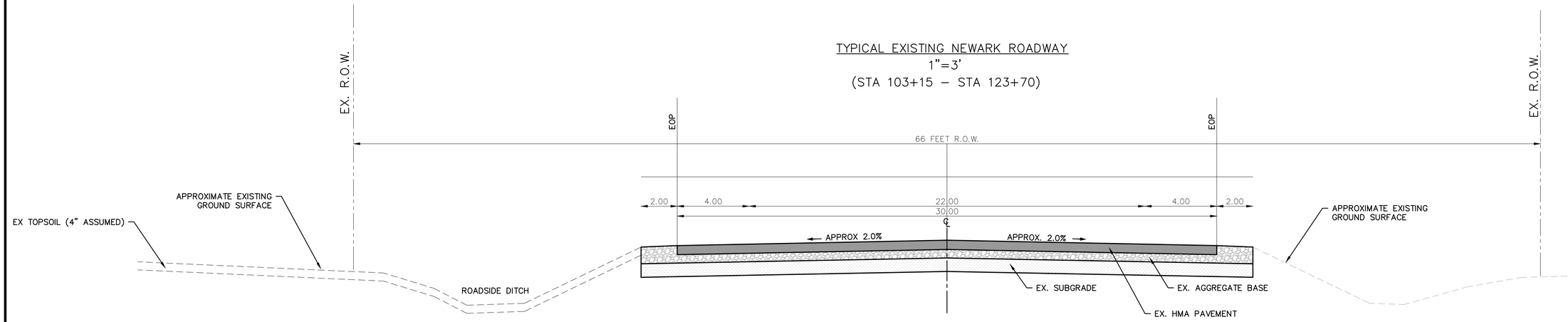
PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. SOQ1
SHEET:

UPDATED: 1/28/2022 - SGEVARGHESE

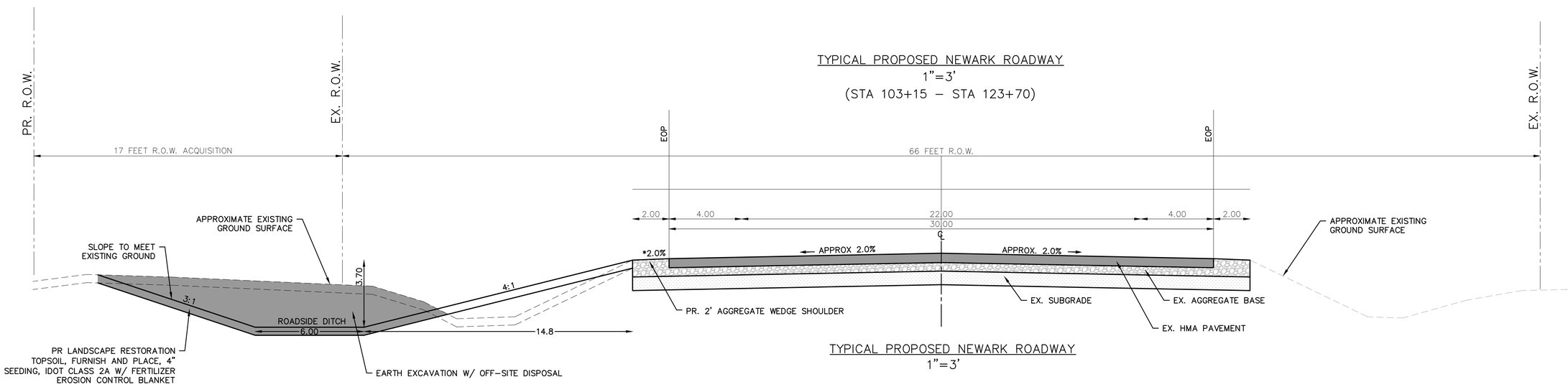
SECTION NO. 21-00162-00-DR

ISSUED FOR BID

TYPICAL EXISTING NEWARK ROADWAY
1"=3'
(STA 103+15 – STA 123+70)



TYPICAL PROPOSED NEWARK ROADWAY
1"=3'
(STA 103+15 – STA 123+70)



TYPICAL PROPOSED NEWARK ROADWAY
1"=3'

GENERAL NOTES

1. *PROPOSED 2' AGGREGATE WEDGE SHOULDER @ 2.0%:
   STA. 103+15 – STA. 123+58
   ALONG NEWARK ROADWAY ONLY

2. PROPOSED 2' AGGREGATE SHOULDER, TYPE B, 6" @ 2.00%:
   STA. 101+97 – STA. 103+15 / STA. 200+59 – STA. 202+20
   ADJACENT TO ALL PAVEMENT WIDENING AT NEWARK AND LISBON INTERSECTION ONLY
   SEE SHEET DT1 FOR INTERSECTION IMPROVEMENTS TYPICAL SECTIONS

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
TS210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755
WBK ENGINEERING

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. TS1
SHEET:

UPDATED: 1/28/2022 - SGEE/VARGHESE

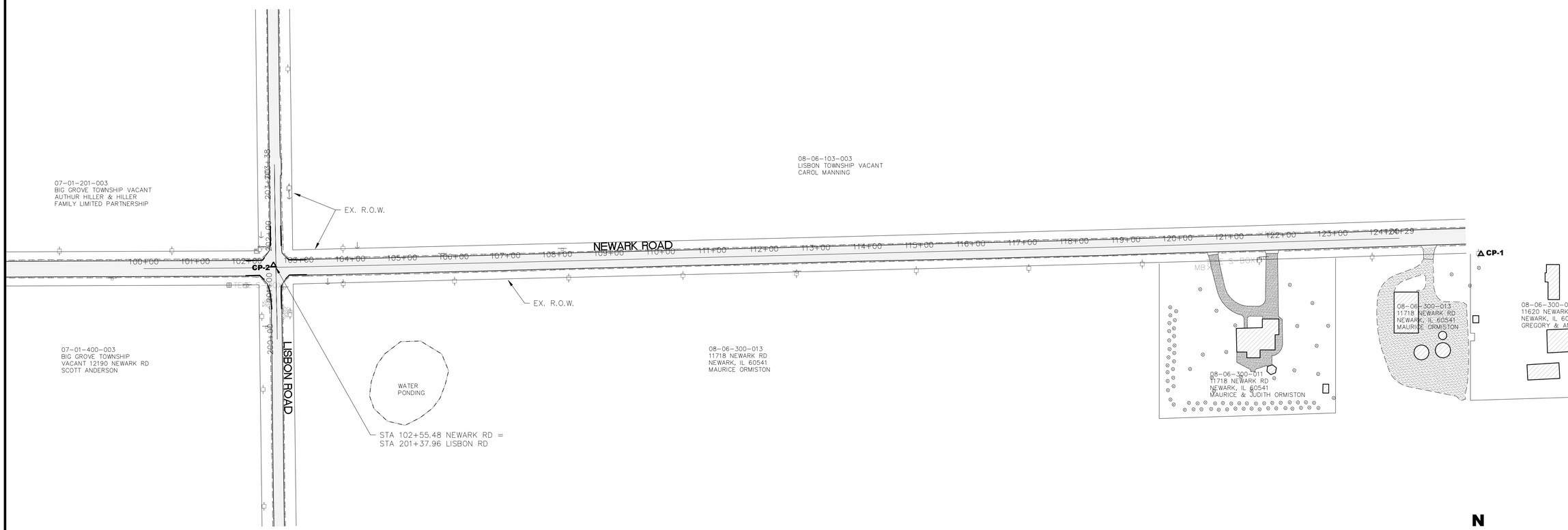
SECTION NO. 21-00162-00-DR

ISSUED FOR BID

POINT	ALIGNMENT	NORTHING	EASTING
POB STA 100+00.00	STATIONING-CL	1,774,186.67	942,846.19
POT STA 102+00.00	STATIONING-CL	1,774,187.87	943,046.19
POT STA 107+00.00	STATIONING-CL	1,774,198.46	943,546.07
POT STA 115+00.00	STATIONING-CL	1,774,218.82	944,345.80
POT STA 119+00.00	STATIONING-CL	1,774,229.03	944,745.67
POT STA 124+28.23	STATIONING-CL	1,774,245.41	945,273.99
POB STA 200+00.00	EX-LISBON-CL	1,774,050.11	943,104.10
POT STA 203+38.10	EX-LISBON-CL	1,774,388.16	943,098.76

BENCHMARK AND CONTROL POINT INFORMATION

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	1,774,215.43	945,431.76	695.47	CIR R.O.W.
CP2	1,774,193.73	943,096.94	702.66	COTTON SPINDLE



NOTE:
SCALE SHOWN IS FOR FULL SIZE
22"X34" PLANS.
IF PRINTED ON HALF SIZE PAPER
(11"X17") SCALE IS DOUBLED.

N
W E
S

0' 100' 200' 300'

TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

ALIGNMENT TIES AND BENCHMARKS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
EC210222.DWG	

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CLIENT
KENDALL COUNTY HIGHWAY
DEPARTMENT
6780 IL ROUTE 47
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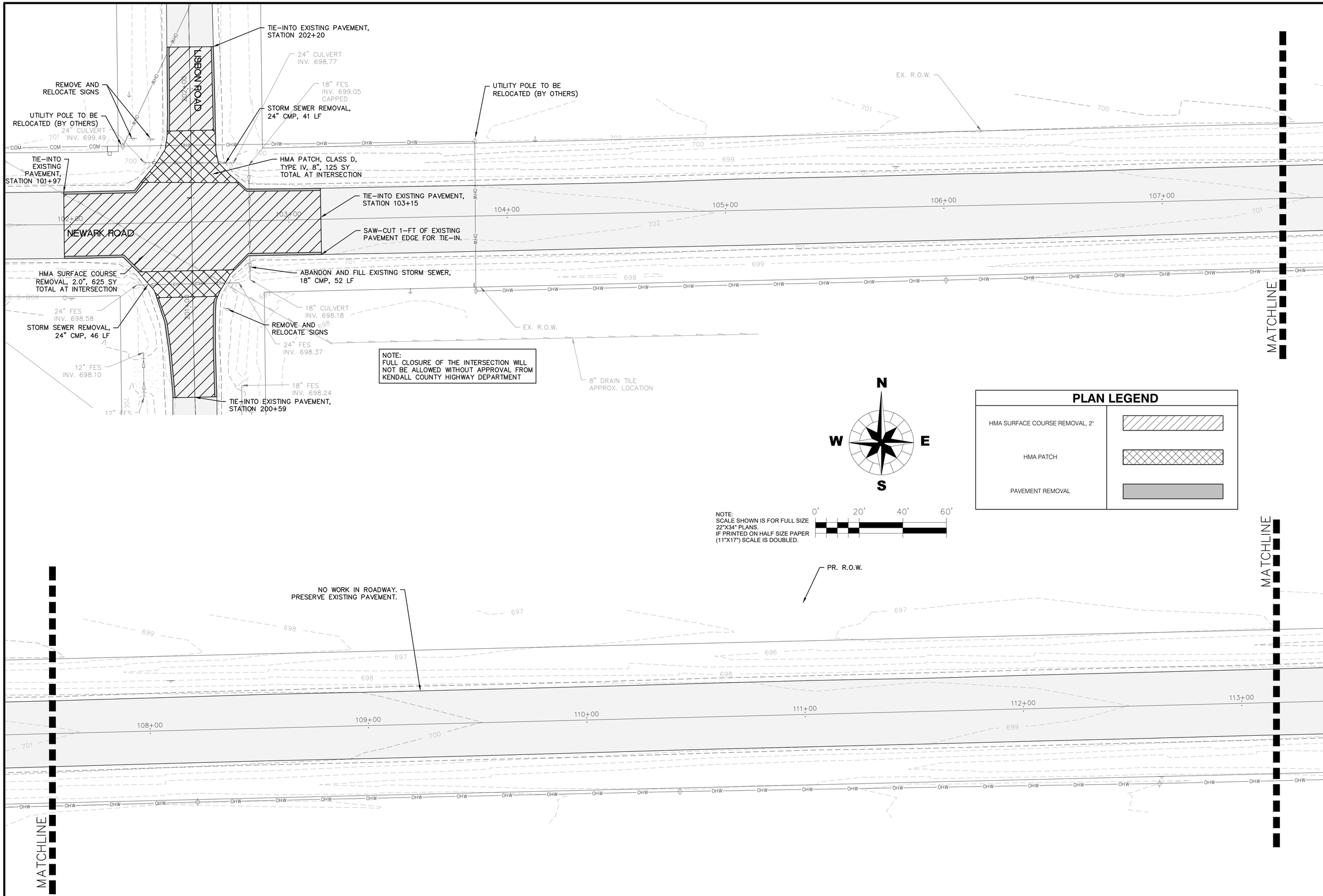
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **ATB1**
SHEET:
5 OF 24

UPDATED: 4/22/2022 - SCEEVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

EXISTING CONDITIONS AND DEMOLITION PLAN

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
EC210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
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WBK ENGINEERING, LLC
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PROJECT NO. 210222

DATE : 4/22/2022

DRAWING NO. EC1

SHEET:

6 OF 24

UPDATED: 4/22/2022 - SGEIVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

MATCHLINE

NO WORK IN ROADWAY.
PRESERVE EXISTING PAVEMENT.

EX. R.O.W.

695 696 694 695 697 698 697 694

114+00 115+00 116+00 117+00 118+00 119+00

OHW

MATCHLINE

N
W E
S

NOTE:
SCALE SHOWN IS FOR FULL SIZE
22"X34" PLANS.
IF PRINTED ON HALF SIZE PAPER
(11"X17") SCALE IS DOUBLED.

0' 20' 40' 60'

PLAN LEGEND

HMA SURFACE COURSE REMOVAL, 2"	
HMA PATCH	
PAVEMENT REMOVAL	

MATCHLINE

NO WORK IN ROADWAY.
PRESERVE EXISTING PAVEMENT.

EX. R.O.W.

24" FES
INV. 691.17

692.18
MISC TILE

HMA PATCH, CLASS D,
TYPE IV, 8", 35 SY

STORM SEWER REMOVAL,
24" CMP, 45 LF

694 693 694 693 696 695 693

119+00 120+00 121+00 122+00 123+00 124+00 124+29

NEWARK ROAD

TELE S BOX

MBX

24" FES
INV. 690.80

EX. R.O.W.

693

MATCHLINE

TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

EXISTING CONDITIONS AND
DEMOLITION PLAN

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
EC210222.DWG	

NO.	DATE	NATURE OF REVISION

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KENDALL COUNTY HIGHWAY
DEPARTMENT
6780 IL ROUTE 47
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(630) 443-7755

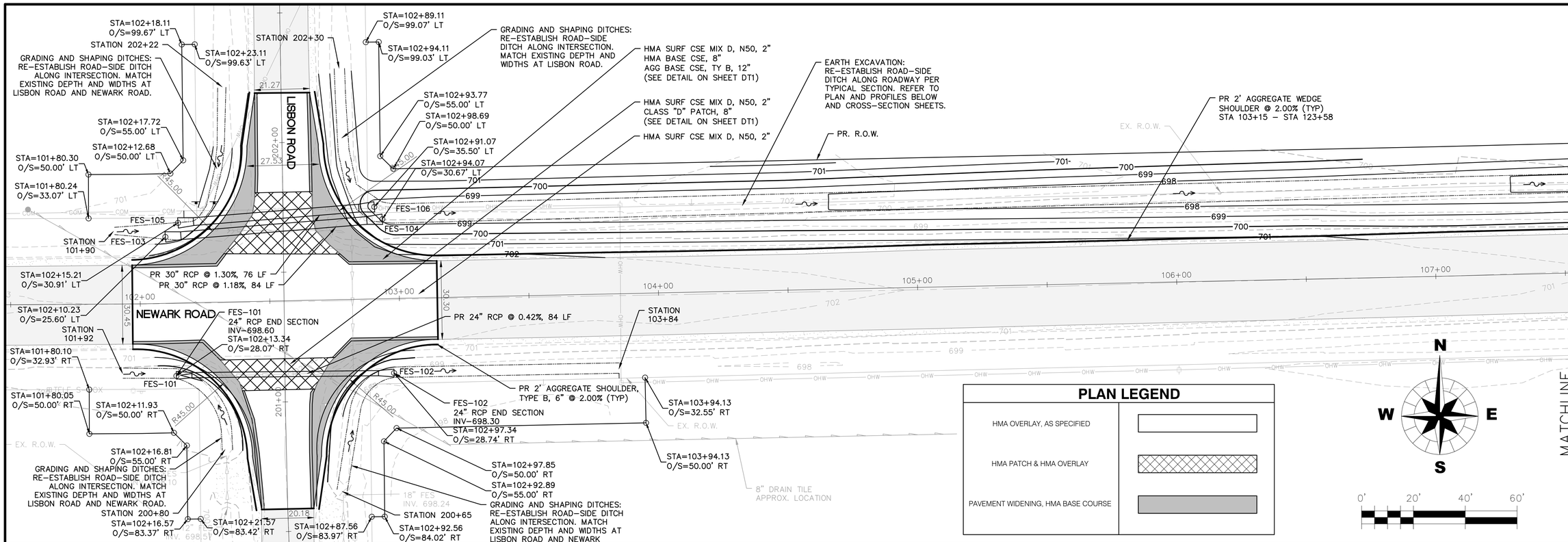
WBK ENGINEERING

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **EC2**
SHEET:
7 OF 24

UPDATED: 4/22/2022 - SGEIVARGHESE

SECTION NO. 21-00162-00-DR

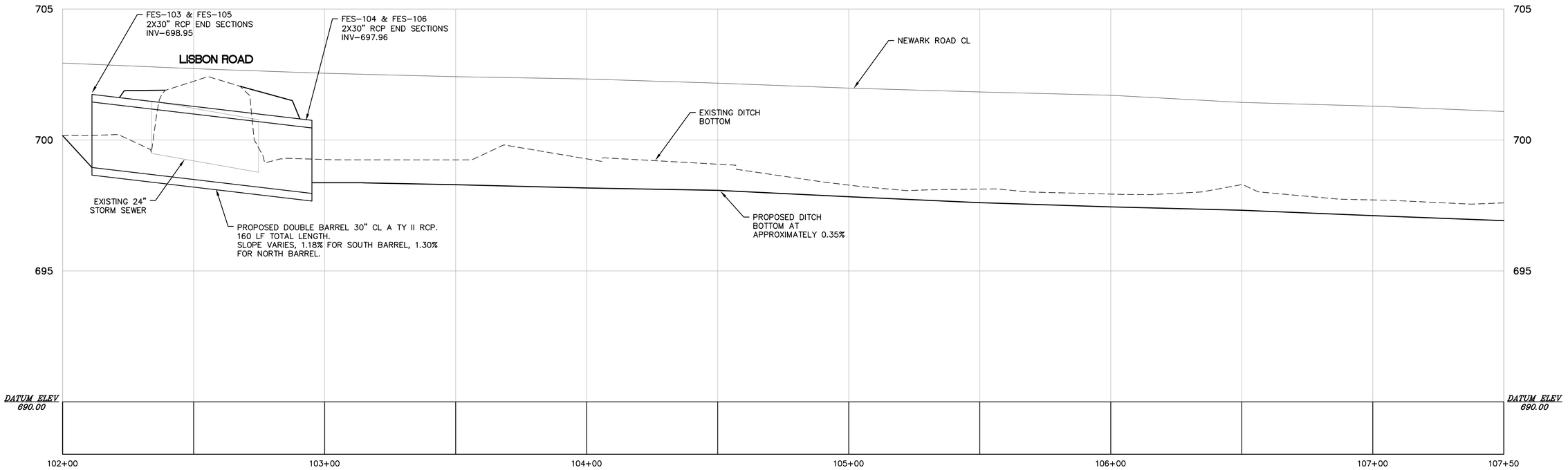
ISSUED FOR BID



PLAN LEGEND

HMA OVERLAY, AS SPECIFIED	
HMA PATCH & HMA OVERLAY	
PAVEMENT WIDENING, HMA BASE COURSE	

PROFILE SCALE:
1" = 20' HORIZONTAL
1" = 2' VERTICAL



TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

SITE PLAN AND PROFILES

DSGN.	TLB	
DWN.	TLB	
CHKD.	VDP	
SCALE : AS NOTED		
PP210222.DWG		

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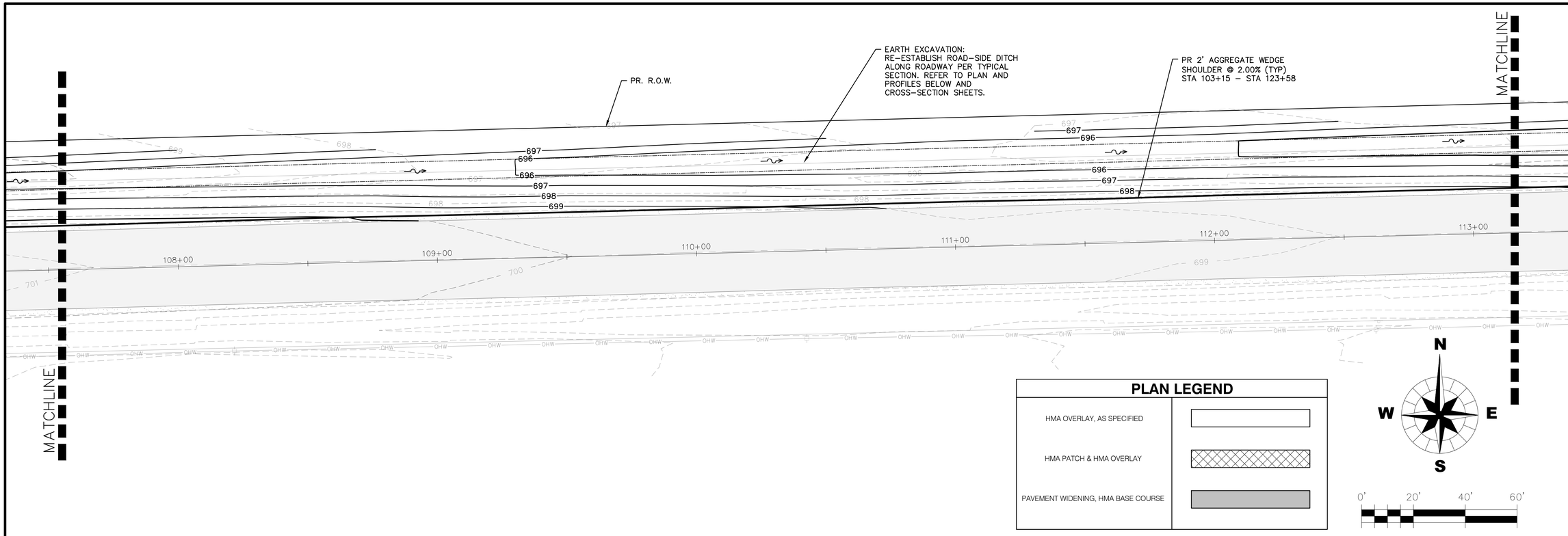
PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. PP1
SHEET:
8 OF 24

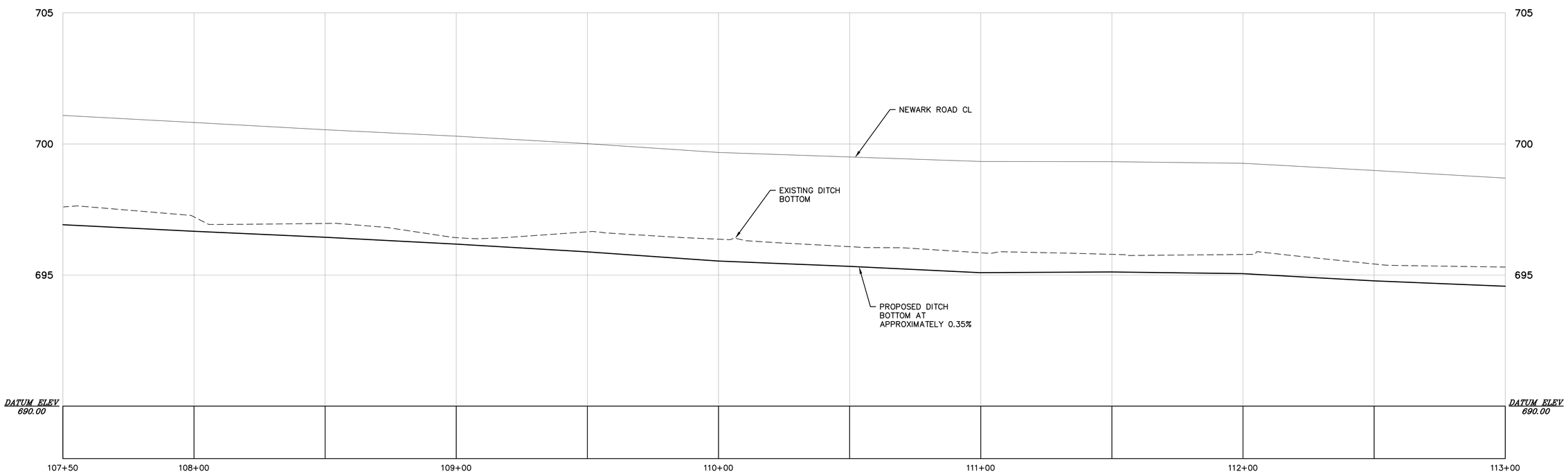
UPDATED: 4/20/2022 - SGEE/VARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



PROFILE SCALE:
1" = 20' HORIZONTAL
1" = 2' VERTICAL



TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

SITE PLAN AND PROFILES

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
PP210222.DWG	

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6780 IL ROUTE 47
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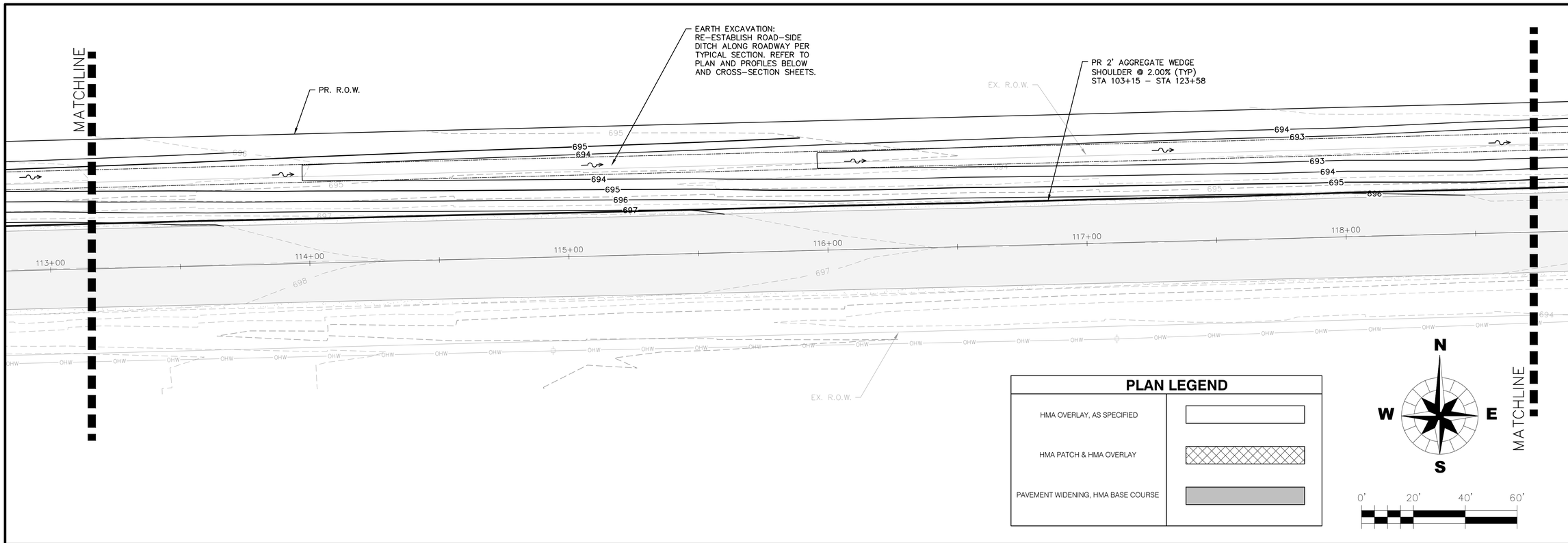
PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. PP2
SHEET:

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

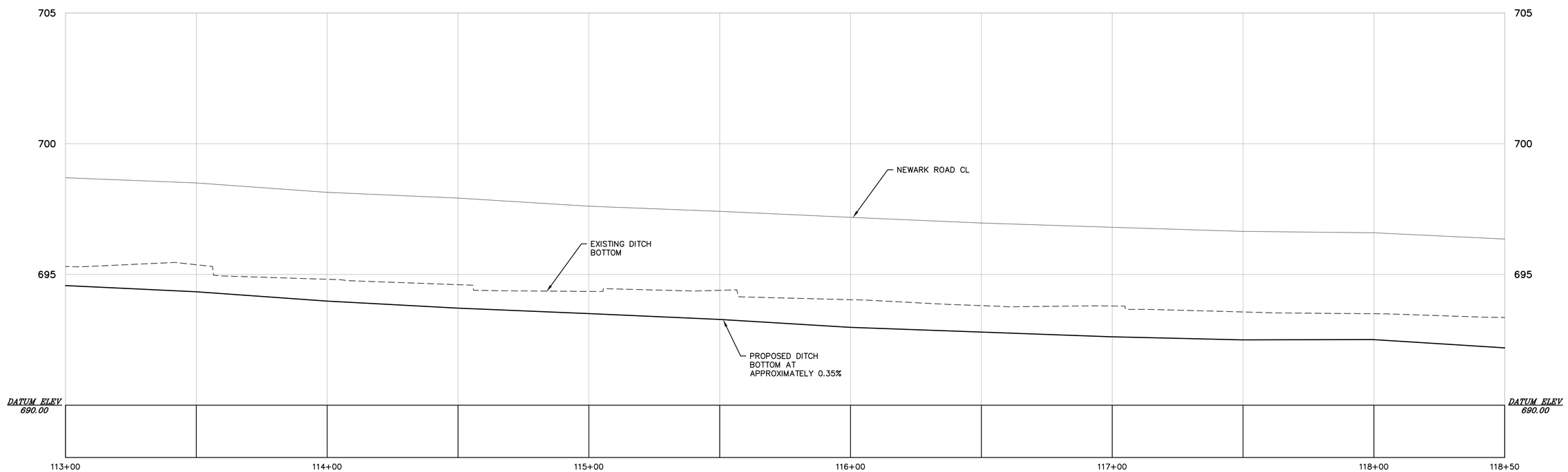
UPDATED: 4/22/2022 - SGEE/VARGHESE



PLAN LEGEND

HMA OVERLAY, AS SPECIFIED	
HMA PATCH & HMA OVERLAY	
PAVEMENT WIDENING, HMA BASE COURSE	

PROFILE SCALE:
1" = 20' HORIZONTAL
1" = 2' VERTICAL



TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

SITE PLAN AND PROFILES

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
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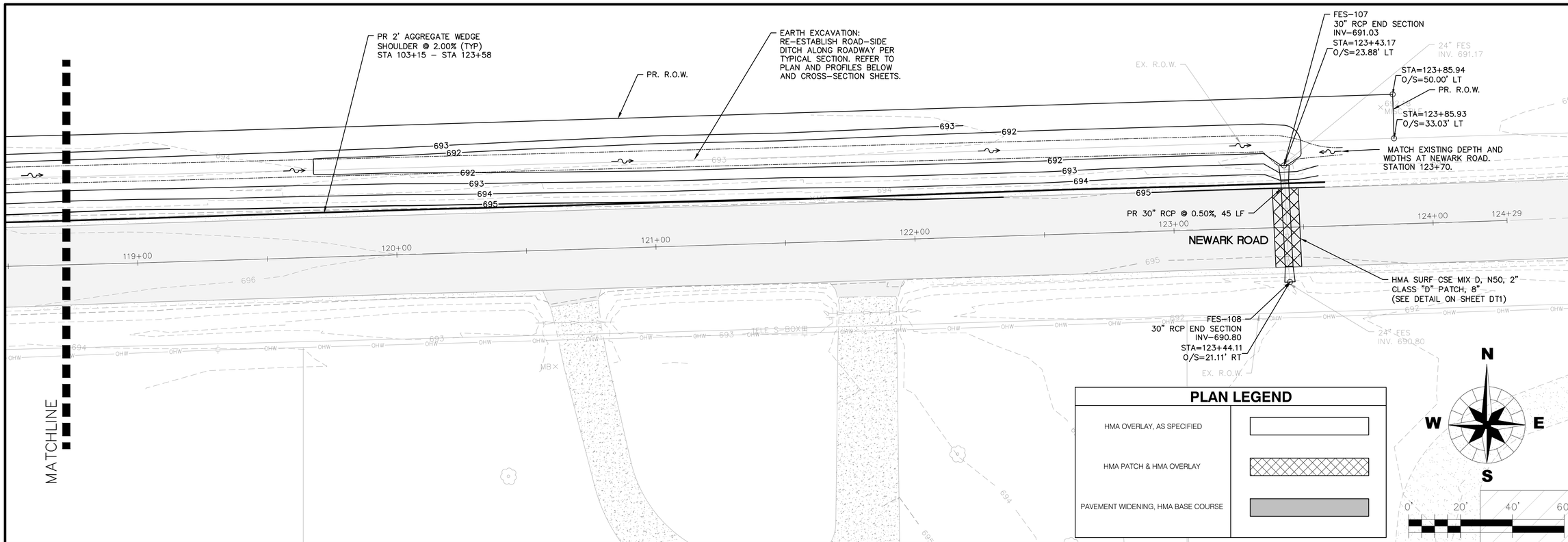
WBK ENGINEERING

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. PP3
SHEET:
10 OF 24

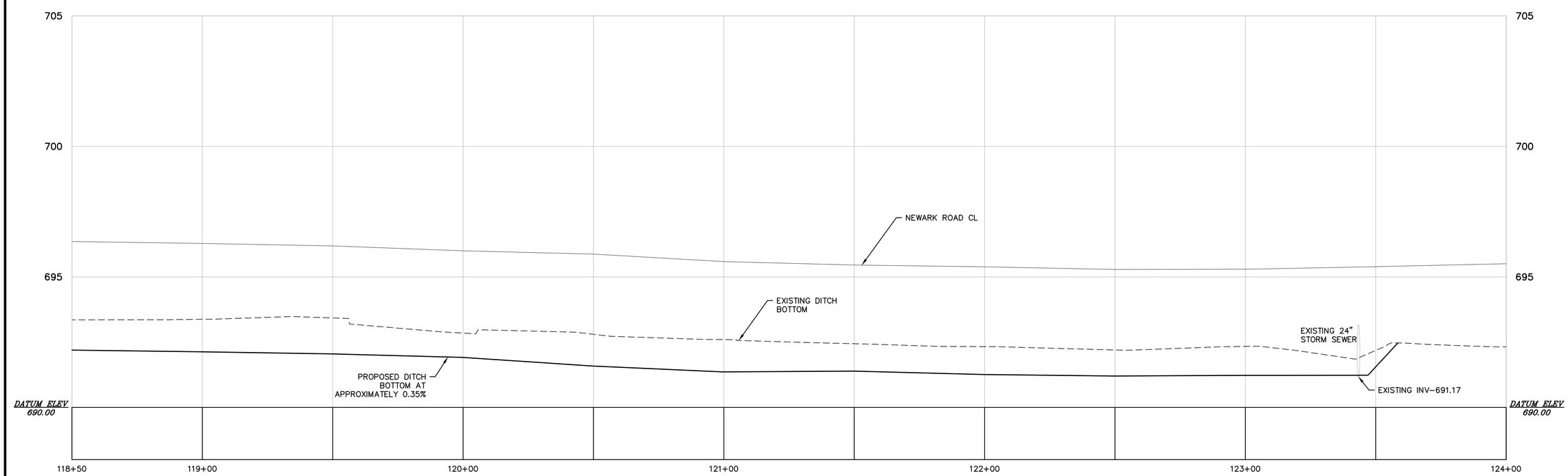
UPDATED: 4/20/2022 - SIDEEVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



PROFILE SCALE:
1" = 20' HORIZONTAL
1" = 2' VERTICAL



SECTION NO. 21-00162-00-DR

ISSUED FOR BID

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

SITE PLAN AND PROFILES

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
PP210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
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PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. PP4
SHEET:
11 OF 24

UPDATED: 4/20/2022 - SGEE/VARGHESE

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):
NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

THIS STORMWATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THE PERMIT IS ISSUED AND EFFECTIVE FROM AUGUST 3, 2018 AND IT EXPIRES ON JULY 31, 2023. THE PLAN CONSISTS OF THE SWPPP NARRATIVE AND NOTES, THE SWPPP PLAN SHEETS, INCLUDING ON AND OFF-SITE CONTROLS, AND THE SWPPP DETAILS. THIS PLAN IS ONLY COMPLETE WHEN THE COMPONENT PARTS ARE INCLUDED.

1. SITE DESCRIPTION:

A. THE WORK UNDER THIS CONTRACT WILL BE COMPLETED WITHIN THE RIGHT-OF-WAY AND PROPOSED RIGHT-OF-WAY ACQUISITION FOR NEWARK ROAD AND LISBON ROAD.

B. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF THE MAJOR ACTIVITIES WHICH WILL DISTURB SOIL FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE; SEQUENCE OF THE CONSTRUCTION:

a. INSTALL PREVENTATIVE EROSION CONTROL MEASURES.
b. REMOVE AND REPLACE CULVERTS AT NEWARK AND LISBON ROAD INTERSECTION AND AT THE DOWNSTREAM CULVERT TO THE EAST OF THE INTERSECTION.
c. EXCAVATE, GRADE, AND SHAPE DITCHES FROM DOWNSTREAM CULVERT TO NEWARK AND LISBON INTERSECTION.
d. PLACE TEMPORARY CHECK DAMS.
e. RESTORE PAVEMENT AT NEWARK AND LISBON ROAD INTERSECTION AND AT THE DOWNSTREAM CULVERT TO THE EAST OF THE INTERSECTION.
f. RESTORE DISTURBED DITCHES WITH TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
g. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES FROM THE SITE.

C. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.03 ACRES. THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 2.03 ACRES.

D. THE ESTIMATED RUNOFF COEFFICIENT FOR THE PROJECT IS 0.32 FOR EXISTING CONDITIONS AND 0.33 FOR THE PROPOSED PROJECT. INFORMATION DESCRIBING THE SOILS AT THE SITE IS CONTAINED IN THE GEOTECHNICAL SOILS REPORT FOR THE PROJECT, WHICH IS HEREBY INCORPORATED BY REFERENCE.

E. A SITE PLAN INDICATING DRAINAGE PATTERNS, APPROXIMATE SLOPES, VEHICLE ENTRANCES AND EXITS, CONTROLS FOR PREVENTION OF OFFSITE SEDIMENT TRACKING, AREAS OF SOIL DISTURBANCE, LOCATIONS OF STRUCTURAL AND NONSTRUCTURAL CONTROLS, LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, LOCATIONS OF STOCKPILES OR MATERIAL STORAGE, SURFACE WATERS (INCLUDING WETLANDS), AND LOCATIONS WHERE STORM WATER IS DISCHARGED INTO SURFACE WATER IS INCLUDED IN THE PLAN SET.

F. THE SITE DRAINS BY OVERLAND FLOW . THERE ARE 0.0 ACRES OF WETLANDS ONSITE.

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 CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO AND ARE A PART OF THIS PLAN.

THE SOIL EROSION AND SEDIMENT CONTROL PLAN DRAWINGS INCLUDED, DEFINE THE SIZE AND LOCATION OF THE MEASURES TO BE INSTALLED DURING THE CONSTRUCTION OF THIS PROJECT.

A. SOIL EROSION AND SEDIMENT CONTROLS:

a. 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. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE, AND WHEN STABILIZATION MEASURES ARE INITIATED ARE INCLUDED IN THE PLAN.

EXCEPT AS PROVIDED IN 2.A.a AND 2.B, STABILIZATION MEASURES SHALL BE PERFORMED ON A DAILY BASIS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.

DESCRIPTION OF STABILIZATION PRACTICES:

- DUST CONTROL WILL BE ACCOMPLISHED USING WATERING TRUCKS AS DIRECTED BY THE ENGINEER
- EROSION CONTROL BLANKET (TEMPORARY), EROSION CONTROL BLANKET HEAVY DUTY (TEMPORARY), TEMPORARY SEEDING, MULCH, GEOTEXTILES, AND ROLLED EXCELSIOR LOGS WILL BE USED TO STABILIZE THE CONSTRUCTION AREAS WHERE THE FINAL GRADE HAS BEEN REACHED BUT CANNOT BE PERMANENTLY STABILIZED DUE TO THE PLANTING SEASON RESTRICTIONS.
- SHEET FLOWS EXITING THE SITE WILL ENCOUNTER PERIMETER EROSION BARRIER.
- STOCKPILES THAT ARE TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL HAVE SOIL EROSION AND SEDIMENT CONTROL PROVIDED. AT A MINIMUM, PERIMETER EROSION BARRIER WILL BE PLACED AROUND THE BOTTOM OF THE STOCKPILE.
- STOCKPILES THAT ARE TO REMAIN FOR MORE THAN 14 CALENDAR DAYS SHALL RECEIVE TEMPORARY SEED.

b. 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, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. STRUCTURAL PRACTICES WILL BE PLACED ON UPLAND SOILS TO THE DEGREE PRACTICABLE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

- INSTALLATION OF TEMPORARY SOIL STABILIZATION - EROSION CONTROL BLANKET (TEMPORARY), EROSION CONTROL BLANKET HEAVY DUTY (TEMPORARY) AND ROLLED EXCELSIOR LOGS
- MAINTENANCE OF VEGETATION AND PLANTINGS

B. STORM WATER MANAGEMENT

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL THE POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER THE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

a. THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF TECHNICAL GUIDANCE CONTAINED IN THE IEPA'S ILLINOIS URBAN MANUAL AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS. THE STORM WATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:

- DRAINAGE SWALES
- CHECK DAMS
- SUMP PIT FOR DEWATERING SITE AS NEEDED

b. 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 (I.E., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES). STORM WATER MANAGEMENT CONTROL INCLUDES:

- ROCK OUTLET PROTECTION
- PIPE UNDERDRAIN SYSTEM
- VEGETATED CHANNELS

C. OTHER CONTROLS:

a. NON HAZARDOUS WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ACQUIRE ANY PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON-SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS SHALL BE DISCHARGED INTO WATERS OF THE U.S., EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

b. HAZARDOUS WASTE STORAGE & DISPOSAL: SHALL CONFORM TO THE IDOT SPECIAL PROVISION AND BE IN ACCORDANCE WITH THE APPLICABLE STATE AND FEDERAL REGULATIONS.

c. SANITARY WASTE DISPOSAL: THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH THE APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. THE CONTRACTOR SHALL NOT CREATE OR ALLOW UNSANITARY CONDITIONS. SEPARATE AUTHORIZATION IS REQUIRED FOR INSTALLATION OF SANITARY SEWER OR SEPTIC SYSTEMS.

d. OFF-SITE VEHICLE TRACKING: EACH SITE SHALL HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PLAN DETAILS. WHERE THE CONTRACTOR'S EQUIPMENT IS OPERATED ON ANY PORTION OF THE TRAVELED SURFACE OR STRUCTURES USED BY TRAFFIC ON OR ADJACENT TO THE PROJECT, THE CONTRACTOR SHALL CLEAN (NOT FLUSHING OF) THE TRAVELED SURFACE OF ALL DIRT AND DEBRIS AT THE END OF EACH DAY'S OPERATIONS OR MORE FREQUENTLY IF DIRECTED BY THE ENGINEER.

e. DEWATERING DEVICES: IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM SOIL EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH A SUMP PIT INTO A SEDIMENT BASIN. ALL SUMPED DISCHARGES TO WATERS OF THE US SHALL BE PERMITTED BY THE USACE.

f. SITE CLEANUP: TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM THE DISPOSITION OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER SOIL EROSION AND SEDIMENTATION.

g. TREATMENT CHEMICALS: POLYMER FLOCCULANTS OR TREATMENT CHEMICALS SHALL BE USED FOR REDUCING TURBIDITY IN STORM WATER RUNOFF AND MINIMIZING EROSION. ALL TREATMENT CHEMICALS SHALL BE STORED IN AREAS WHERE THEY WILL NOT BE EXPOSED TO PRECIPITATION AND WILL ONLY BE USED BY STAFF WHO ARE PROPERLY TRAINED.

D. APPROVED COUNTY, 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 CURRENT VERSION OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S *ILLINOIS URBAN MANUAL STANDARDS AND SPECIFICATIONS*. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SOIL EROSION AND SEDIMENT CONTROL PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE BELOW. REQUIREMENTS SPECIFIED IN SOIL EROSION AND SEDIMENT CONTROL PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS, OR SITE PERMITS APPROVED BY COUNTY, STATE, OR LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF A NOTICE OF INTENT (NOI), INCORPORATED AND ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN. THE SOIL EROSION AND SEDIMENT CONTROL FOR THIS SITE MUST MEET THE REQUIREMENTS OF THE FOLLOWING AGENCIES:

KENDALL COUNTY

3. MAINTENANCE:

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS:

THE CONTRACTOR WILL ASSIGN A SOIL EROSION AND SEDIMENT CONTROL MANAGER (SESCM) TO THE PROJECT. HIS DUTIES WILL BE TO SUPERVISE THE MAINTENANCE OF THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND IMPLEMENTATION OF THIS PLAN.

THE FOLLOWING SHALL BE THE MINIMUM MAINTENANCE REQUIRED:

A. VEGETATIVE SOIL EROSION MEASURES - THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SEEDING, VEGETATIVE FILTERS, ETC., SHALL BE MAINTAINED PERIODICALLY AND SUPPLIED ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.

B. WATER TREATMENT SYSTEM WILL BE CLEANED AND ITEMS REPLACED AS RECOMMENDED BY THE DESIGNER OF THE SYSTEM. SEDIMENT ACCUMULATION WILL BE REMOVED AT A MINIMUM WHEN THE HEIGHT IS EQUAL TO 50% OF THE HEIGHT OF THE BAFFLE OR CURTAIN.

C. PERIMETER EROSION BARRIER AND ROLLED EXCELSIOR LOGS WILL BE EXAMINED REGULARLY AND REPAIRED AS NECESSARY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES A HEIGHT EQUAL TO 50% OF THE HEIGHT OF THE BARRIER.

D. STABILIZED ACCESS ROAD AND STABILIZED CONSTRUCTION ENTRANCES SHALL HAVE SEDIMENT BUILD UP REMOVED AS NECESSARY.

4. INSPECTIONS:

THE ENGINEER WILL BE RESPONSIBLE FOR CONDUCTING SOIL EROSION AND SEDIMENT CONTROL INSPECTIONS. THE CONTRACTOR'S SESCM SHALL BE NOTIFIED WHEN THE INSPECTIONS ARE TO TAKE PLACE AND IS EXPECTED TO BE PRESENT DURING THE INSPECTIONS. A MAINTENANCE INSPECTION REPORT WILL BE COMPLETED AFTER EACH INSPECTION. A COPY OF THE REPORT IS TO BE COMPLETED BY THE INSPECTOR AND STORED ON-SITE WITH A COPY GIVEN TO THE CONTRACTOR.

THE INSPECTION SHALL INCLUDE ALL DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, THE STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ALL MAJOR OUTFALLS. SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN STORM (OR EQUIVALENT SNOWFALL) THAT IS 0.5 INCHES OR GREATER. DEPTH OF RAIN FALL WILL BE DETERMINED BY AN ON-SITE RAIN GAUGE. THE ENGINEER SHALL READ THE RAIN GAUGE DAILY AND AFTER EACH RAIN STORM.

A. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY INSPECTIONS WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5" OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOWMELT OCCURS.

B. AREAS INACCESSIBLE DURING INSPECTIONS DUE TO FLOODING OR UNSAFE CONDITIONS SHALL BE INSPECTED WITHIN 72 HOURS OF BECOMING ACCESSIBLE.

C. 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 AND WATERWAYS. SOIL EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF THE COMPLETION OF THE INSPECTION REPORT. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER THE 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 TRACKING.

D. 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, THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTION SHALL BE IMPLEMENTED WITHIN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.

E. 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 STORM WATER POLLUTION PREVENTION PLAN, AND ACTION TAKEN IN ACCORDANCE WITH SECTION 4.B SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT.

F. IF ANY VIOLATIONS OF THE PROVISIONS OF THIS PLAN ARE IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE ENGINEER SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ABOUT 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. THE IEPA MUST BE NOTIFIED BY PHONE, FAX, OR E-MAIL WITHIN 24 HOURS OF THE DISCOVERY OF THE NONCOMPLIANCE ACTION. THE ION REPORT MUST BE FILED WITHIN 5 DAYS OF THE INCIDENT. 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
COMPLIANCE ASSURANCE SECTION
1021 NORTH GRAND EAST
P.O. BOX 19276
SPRINGFIELD, IL 62794-9276
epa.swnoncomp@illinois.gov

5. NON-STORM WATER DISCHARGES:

EXCEPT FOR THE FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY ARE TREATED BY THE MEASURES INCLUDED IN THESE PLANS. THESE SOURCES INCLUDE THE FOLLOWING:

- FIRE HYDRANT FLUSHINGS
- WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
- WATER USED TO CONTROL DUST
- POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS
- LANDSCAPE IRRIGATION DRAINAGES
- ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS
- PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED
- UNCONTAMINATED AIR CONDITIONING CONDENSATE
- UNCONTAMINATED GROUND WATER
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS

6. INVENTORY FOR POLLUTION PREVENTION PLAN:

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION. ***(TABLE TO BE FILLED IN BY CONTRACTOR).***

7. SPILL PREVENTION - MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
- ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.
- WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

HAZARDOUS PRODUCTS:

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:

- PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCES.

8. POST-CONSTRUCTION STORMWATER MANAGEMENT

THE FOLLOWING MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION AND MAINTENANCE OF THESE MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CWA. THE MEASURES ARE AS FOLLOWS:

- ROCK OUTLET PROTECTION
- PIPE UNDERDRAIN SYSTEM
- VEGETATED CHANNELS
- PERMANENT SEEDING WITH EROSION CONTROL BLANKET

ADDITIONAL EROSION AND SEDIMENT NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL (LATEST EDITION).
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
5. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. WHEN DISCHARGING FROM THE SEDIMENT BASIN, UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE IN ORDER TO MINIMIZE DISCHARGE. PREVENT EROSION OF THE SEDIMENT BASIN USING STABILIZATION CONTROLS AT THE INLET AND OUTLET USING EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES. SEDIMENT BASINS SHALL BE DESIGNED TO FACILITATE MAINTENANCE, INCLUDING SEDIMENT REMOVAL FROM THE BASINS, AS NECESSARY. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS STRICTLY PROHIBITED.
6. 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 THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
7. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOWS.
8. THE COMPLETED SLOPES SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
9. ALL DISTURBED AREAS SHALL BE COVERED IN AN ACCEPTABLE OR APPROVED TYPE OF PERMANENT SEEDING UNLESS OTHERWISE INDICATED.
10. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA.
11. ALL ADJACENT STREETS AND PARKING LOTS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
12. CONCRETE WASHOUT LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN A MANNER CONSISTENT WITH THE LATEST VERSION OF THE ILLINOIS URBAN MANUAL.
13. STOCKPILE LOCATIONS SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT TIME OF INSTALLATION. STOCKPILES MAY NOT BE LOCATED WITHIN THE LIMITS OF THE FLOODWAY.

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS
STORMWATER POLLUTION PREVENTION PLAN

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : NA	
SE210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. SW1
SHEET:
12 OF 24

UPDATED: 4/22/2022 - SQIEVANGHESE

ISSUED FOR BID

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT.
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	X	TS	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X	
	PERMANENT SEEDING	X	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X
	DORMANT SEEDING	X	DS	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.		
	PLANTS, TREES, & SHRUBS		GC	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.		
NON VEGETATIVE SOIL COVER	MULCHING		M	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED.		
	EROSION CONTROL BLANKET	X	EB	PROTECTS AND PRESERVES MOISTURE FOR PERMANENT SEEDING ON STEEP SLOPES, AREAS OF PERIODIC CONCENTRATED RUNOFF (DITCHES) OR IN AREAS THAT MAY BE DAMAGED BY PEDESTRIAN TRAFFIC.	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	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		
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		DC	TYPICALLY USED ANYWHERE ON A 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	PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW.		
	STRUCTURAL STREAMBANK STABILIZATION		SSS	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER.		
	VEGETATIVE CHANNEL	X	VC	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.		X
	VEGETATIVE STREAMBANK STABILIZATION		VS	PROTECTS STREAMBANKS FROM EROSIVE FORCE OF FLOWING WATER AND PROVIDES NATURAL, PLEASING APPEARANCE.		
	LINED CHANNEL		LC	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		
	DITCH CHECKS	X	SDC	USED IN DITCHES TO RETARD THE VELOCITY OF WATER IN A DITCH TO MINIMIZE SOIL EROSION PRIOR TO THE DITCH BEING VEGETATED.	X	
ENCLOSED DRAINAGE	STORM SEWER		ST	CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		
	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 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.		
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		CS	USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED.		
SEDIMENT FILTERS	BARRIER FILTER		BF	USED TO FILTER SEDIMENT FROM RUNOFF.		
	VEGETATIVE FILTER		VF	USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.		
	FILTER FABRIC		FF	USED FOR ROADWAY CURB INLETS.		
	SILT FENCE		SF	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF.		
MUD AND DUST CONTROL	STABILIZED CONST. ENTRANCE		SE	PREVENTS MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.		
	DUST AND TRAFFIC CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	

CONSTRUCTION STAGING:
NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS PROJECT

PRE-CONSTRUCTION

INSTALL PREVENTATIVE EROSION CONTROL MEASURES INCLUDING ROCK CHECK DAM AT DOWNSTREAM SITE OUTLET AND TREE PROTECTION

CONSTRUCTION

1. REMOVE AND REPLACE CULVERTS AT NEWARK AND LISBON ROAD INTERSECTION.
2. INSTALL NEW ROCK OUTLET PROTECTION.
3. EXCAVATE, GRADE, AND SHAPE DITCHES FROM DOWNSTREAM CULVERT TO NEWARK AND LISBON INTERSECTION.
4. PLACE TEMPORARY CHECK DAMS
5. REMOVE AND REPLACE CULVERTS AT NEWARK AND LISBON ROAD INTERSECTION.
6. RESTORE PAVEMENT AT NEWARK AND LISBON ROAD INTERSECTION.
7. RESTORE DISTURBED DITCHES WITH TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
8. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES FROM THE SITE.

CONSTRUCTION STAGING NOTES:

SOIL STABILIZATION (TEMPORARY OR PERMANENT) MUST BE INITIATED WITHIN 1 WORKING DAY OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. PERMANENT SOIL STABILIZATION WILL BE INSTALLED PRIOR TO STARTING THE NEXT STAGE OF CONSTRUCTION.

WINTER SHUT DOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER TO PROVIDE PROPER SOIL EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES 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 MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET, HEAVY MULCH, OR HYDRO MULCH.

1. REMOVE AND REPLACE CULVERTS AT NEWARK AND LISBON ROAD INTERSECTION

SOIL PROTECTION SCHEDULE

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A					A				
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C				D					
MULCHING	E											

A. IDOT SEED MIX CLASS 2A 200 LBS/ACRE
B. INCREASE SEDDING RATES BY 25% WHEN DORMANT SEEDING
C. SPRING OATS 100 LBS/ACRE
D. WHEAT OR CEREAL RYE 150 LBS/ACRE
E. HYDRAULIC MULCH 750 LBS AND 1,000 GAL OF WATER PER ACRE

INSPECTION AND MAINTENANCE TABLE

ACTIVITY	RESPONSIBLE PARTY	DURATION
MAINTENANCE OF STABILIZATION DURING CONSTRUCTION		DURING CONSTRUCTION AS NEEDED
OBSERVATION OF STABILIZATION DURING CONSTRUCTION		WEEKLY AND W/IN 24 HRS AFTER RAINFALL EVENT OF 0.5" OR GREATER
VEGETATION MAINTENANCE		1 YEAR FROM COMPLETION
VEGETATION AND STABILIZATION MAINTENANCE		ONGOING FROM PROJECT COMPLETION

CONTRACTOR CERTIFICATION

CONTRACTOR CERTIFICATION

"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"

GENERAL CONTRACTOR

SIGNATURE TITLE DATE

COMPANY

SUB-CONTRACTOR RESPONSIBLE FOR:

SIGNATURE TITLE DATE

COMPANY

WITNESSED BY OWNER

SIGNATURE TITLE DATE

COMPANY

TITLE: **NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS**

STORMWATER POLLUTION PREVENTION PLAN

DSGN. TLB
DWN. TLB
CHKD. VDP
SCALE : NA
SE210222.DWG

NO.	DATE	NATURE OF REVISION

CLIENT
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

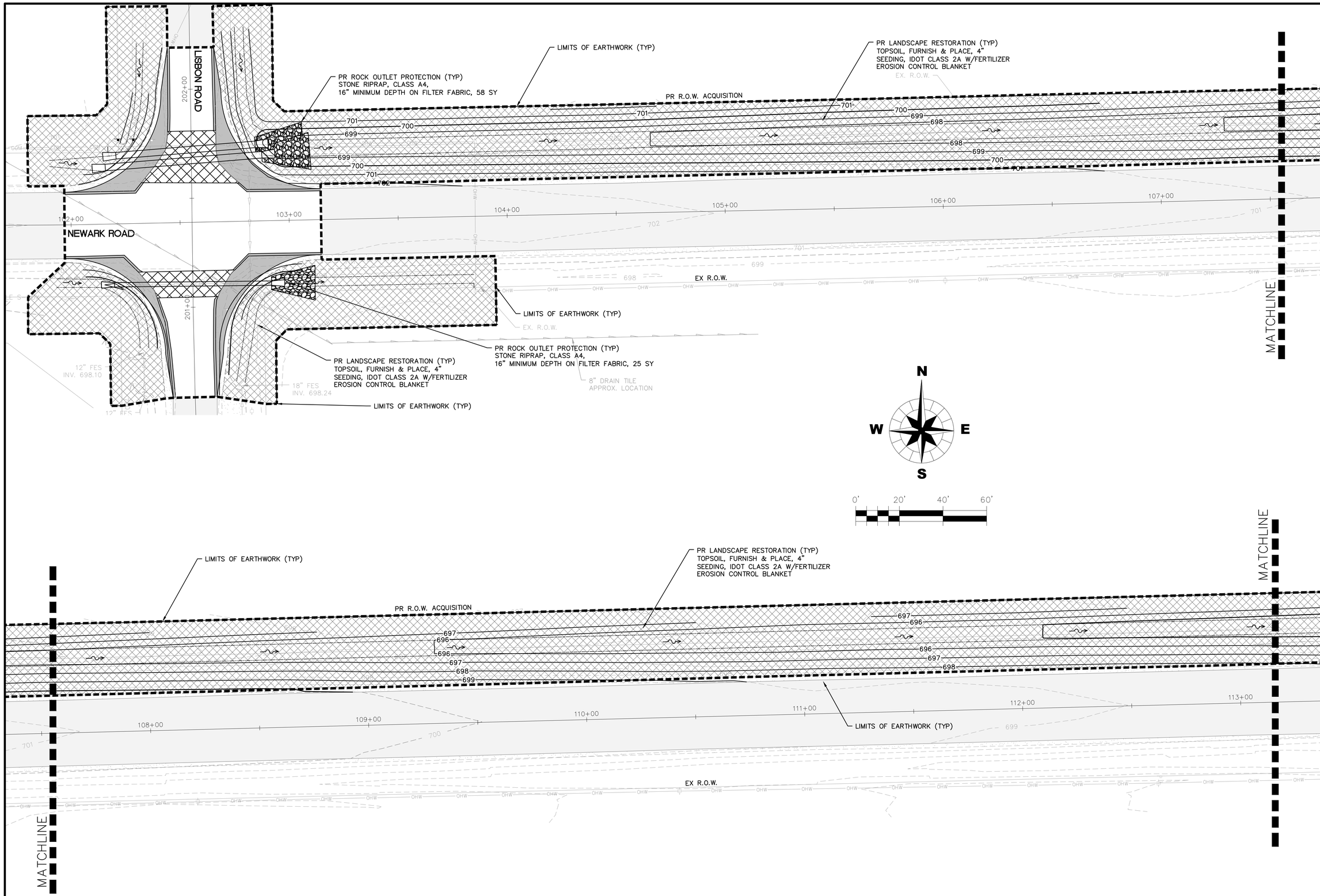
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **SW2**
SHEET:
13 OF 24

UPDATED: 4/22/2022 - SIGEVUROHERE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



TITLE:
NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS
SOIL EROSION
SEDIMENTATION CONTROL
PLAN

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
	SE210222.DWG

NO.	DATE	NATURE OF REVISION

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

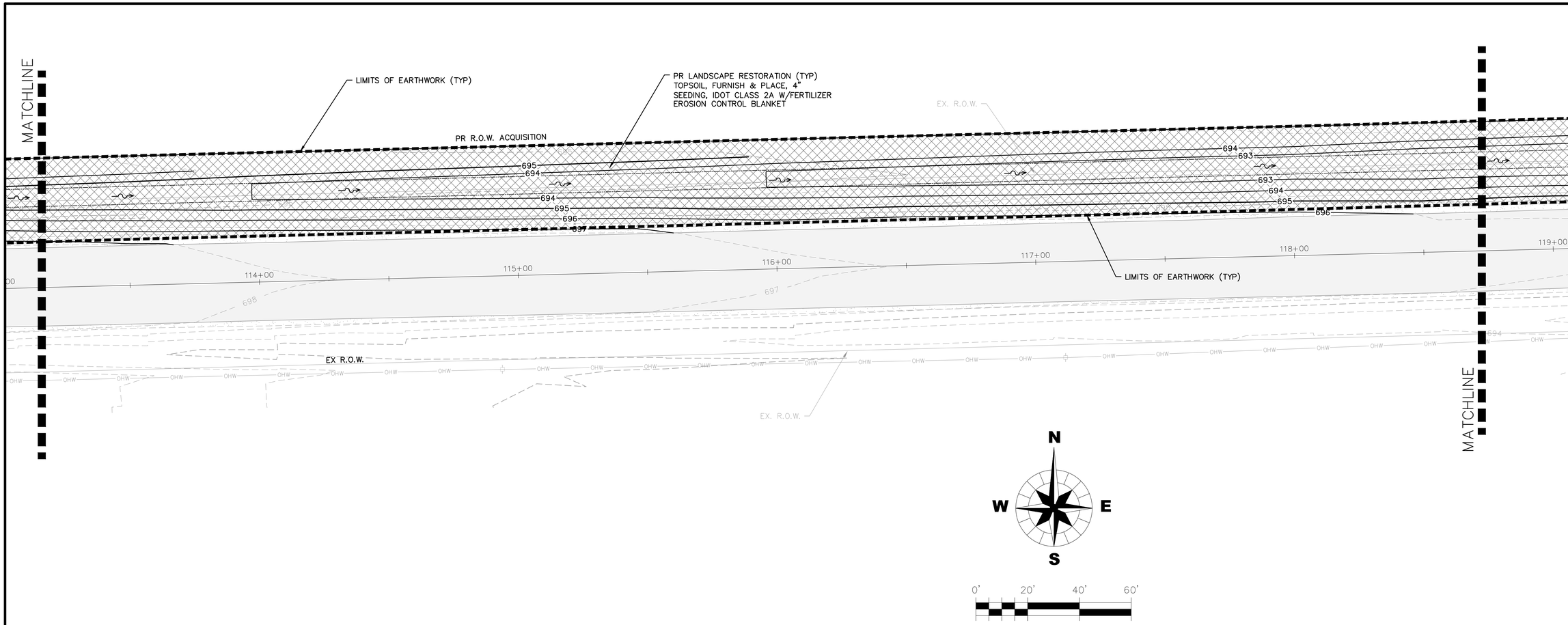
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

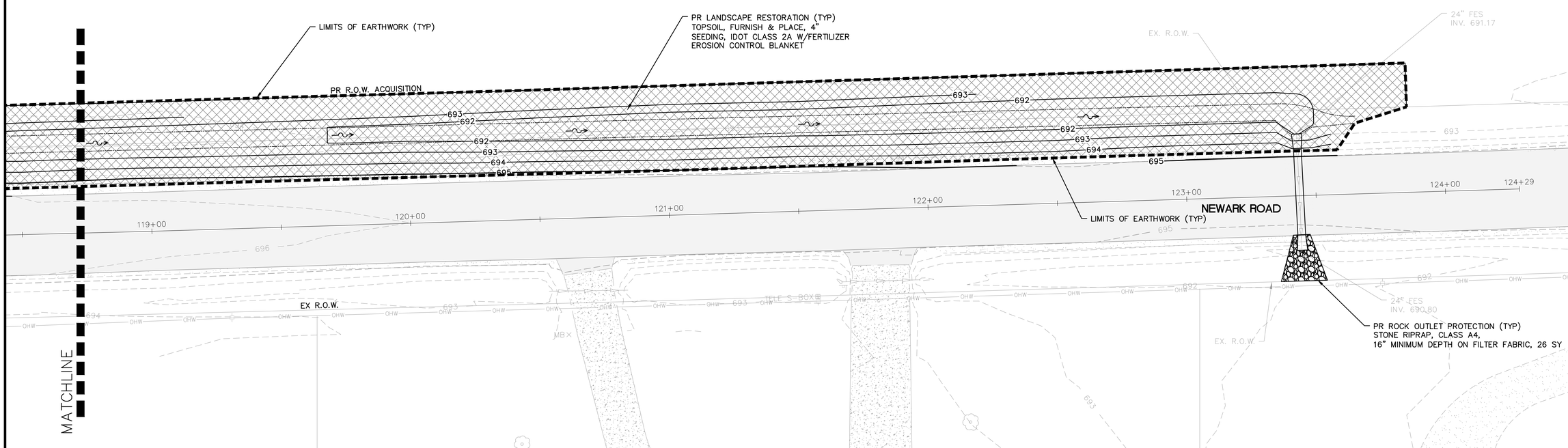
PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **SE1**
SHEET:
14 OF 24

UPDATED: 4/22/2022 - SQIEVANGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID





TITLE: **NEWARK ROAD - C.H. 4**
DRAINAGE IMPROVEMENTS
SOIL EROSION
SEDIMENTATION CONTROL
PLAN

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
SE210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **SE2**
SHEET:
15 OF 24

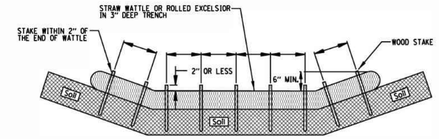
UPDATED: 4/22/2022 - SQIEVANGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

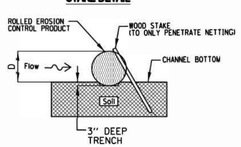
ROLLED EROSION CONTROL PRODUCTS

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

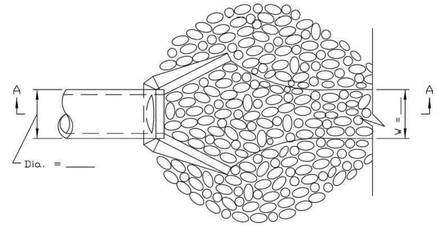


NOTES:
1. DRAWINGS ARE NOT TO SCALE.
2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE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

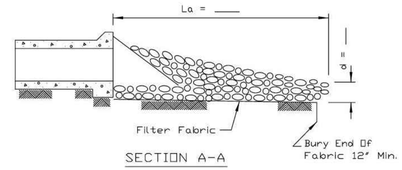
REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 08-2-2019
Approved ____ Date ____		

PIPE OUTLET TO CHANNEL

Pipe Outlet To Well-Defined Channel



PLAN

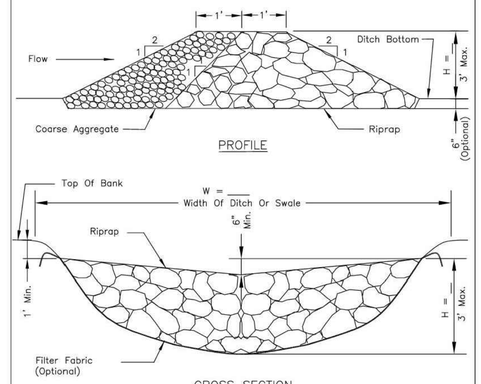


SECTION A-A

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 ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 8-18-94
Approved ____ Date ____		

ROCK CHECK DAM - RIPRAP



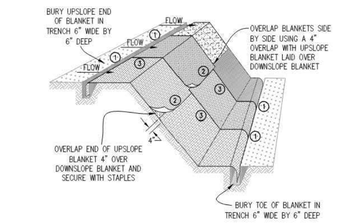
PROFILE

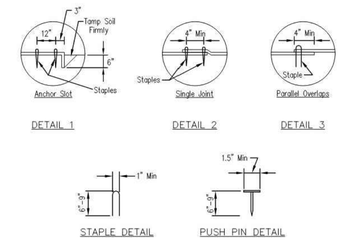
CROSS SECTION
CENTERLINE LOOKING DOWNSTREAM

NOTES;
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4.
3. Riprap shall meet IDOT gradation RR-3 or RR-4 and meet Quality Designation A.
4. Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
5. For added stability, the base of the dam may be keyed 6 inches into the soil.
6. See plans for spacing of dams and H dimensions.
7. Maximum drainage area to each dam is 10 acres.
8. ROCK CHECK DAM-COARSE AGGREGATE IL-605CA may be used for drainage areas under 2 acres.

REFERENCE		STANDARD DWG. NO.
Project		IL-605R
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 1-29-99
Approved ____ Date ____		

AUTOCAD2006





NOTES:

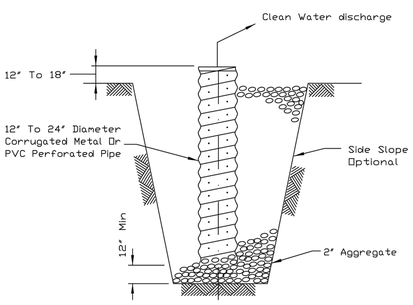
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected 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.

NO.	DATE	NATURE OF REVISION	DSGN.	TLB	TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS
			DWN.	TLB	EROSION CONTROL DETAILS
			CHKD.	VDP	
			SCALE : AS NOTED		DT210222.DWG

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed ____ Date ____
Drawn By: JOHNSON 11/08
Checked ____
Approved ____

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.

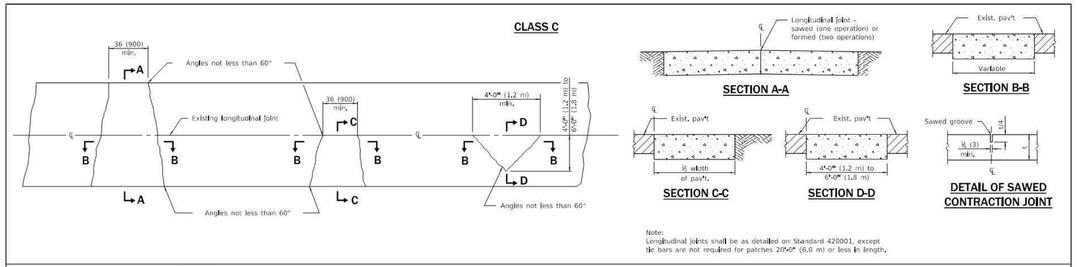
REFERENCE		STANDARD DWG. NO.
Project		IL-650
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 8-11-94
Approved ____ Date ____		

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

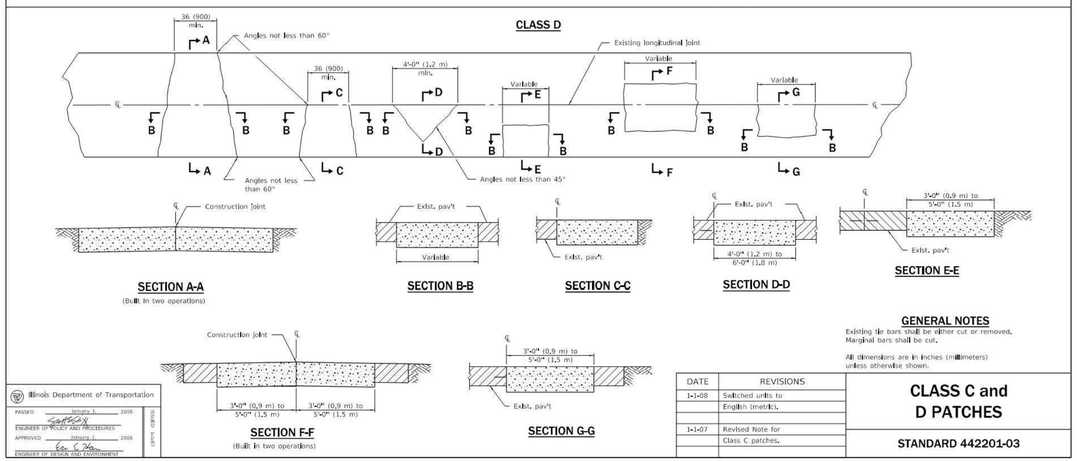
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755
WBK ENGINEERING

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. ECT1
SHEET:
16 OF 24

UPDATED: 12/7/2022 - SGEVANGHESE



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.



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

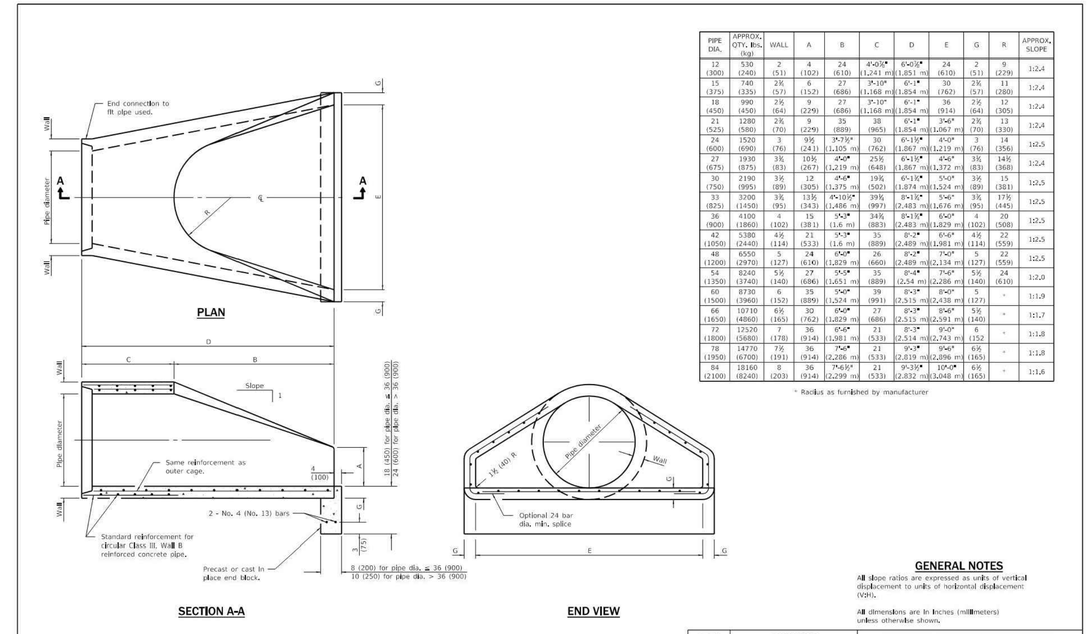
PASSED October 1, 2008
ENGINEER OF POLICY AND PROCEDURES
APPROVED October 1, 2008
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED July 1, 2011

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



PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0½" (1,241 m)	6'-0½" (1,851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2½ (57)	6 (152)	27 (686)	3'-10" (1,168 m)	6'-1" (1,854 m)	30 (762)	2½ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1,168 m)	6'-1" (1,854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2½ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1,854 m)	3'-6" (1,067 m)	2½ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1,105 m)	30 (762)	6'-1½" (1,867 m)	4'-0" (1,219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3½ (83)	10½ (267)	4'-0" (1,219 m)	25½ (648)	6'-1½" (1,867 m)	4'-6" (1,372 m)	3½ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1,375 m)	19½ (502)	6'-1½" (1,874 m)	5'-0" (1,524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3½ (95)	13½ (343)	4'-10½" (1,486 m)	39½ (997)	8'-1½" (2,483 m)	5'-6" (1,676 m)	3½ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-0" (1,6 m)	34½ (883)	8'-1½" (2,483 m)	6'-0" (1,829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1,6 m)	35 (889)	8'-2" (2,489 m)	6'-6" (1,981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1,829 m)	26 (660)	8'-2" (2,489 m)	7'-0" (2,134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-3" (1,651 m)	35 (889)	8'-4" (2,54 m)	7'-6" (2,286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1,524 m)	39 (991)	8'-5" (2,515 m)	8'-0" (2,438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1,829 m)	27 (686)	8'-5" (2,515 m)	8'-6" (2,591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1,981 m)	21 (533)	8'-5" (2,514 m)	9'-0" (2,743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-0" (2,286 m)	21 (533)	9'-5" (2,819 m)	9'-6" (2,896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2,299 m)	21 (533)	9'-5½" (2,832 m)	10'-0" (3,048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

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

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

Illinois Department of Transportation

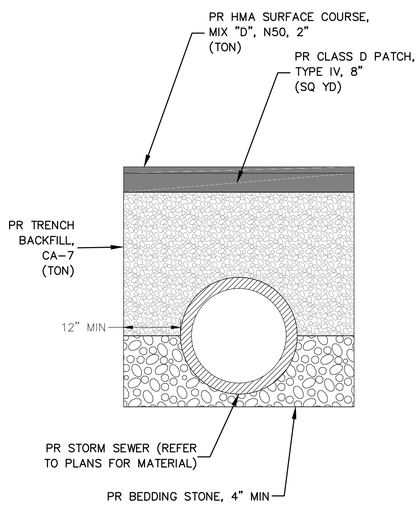
APPROVED January 1, 2011
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED July 1, 2011

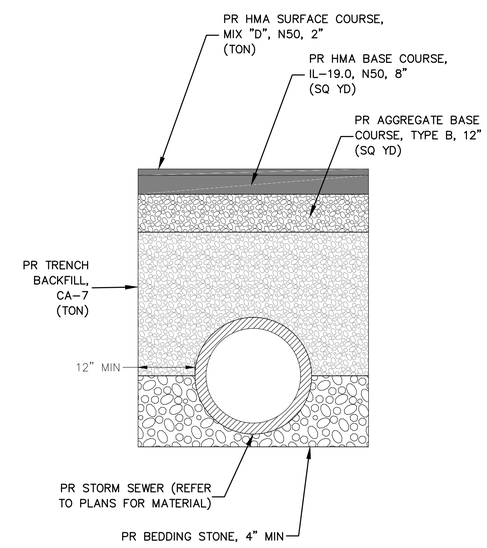
DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia. on Section A-A. Changed "inner" to "outer" cage ref.
1-1-09	Switched units to English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03



STORM SEWER DETAIL - HMA PATCH



STORM SEWER DETAIL - PAVEMENT WIDENING

TITLE: **NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS**

PROJECT DETAILS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
DT210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: **KENDALL COUNTY HIGHWAY DEPARTMENT**
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

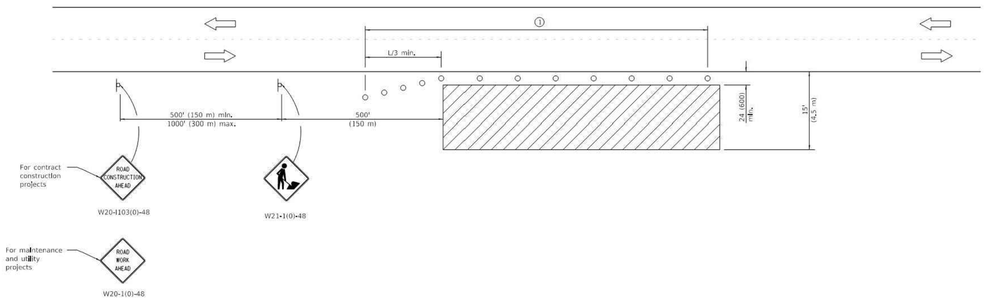
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **DT1**
SHEET:
17 OF 24

UPDATED: 12/7/2022 - SGEVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



TYPICAL APPLICATIONS

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

① When the work operation exceeds one hour, cones, drums or barricades shall be placed at 25' (8 m) centers for L/3 distance, and at 50' (15 m) centers through the remainder of the work area.

SYMBOLS

Work area
Sign
Cone, drum or barricade

GENERAL NOTES

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

Calculate L as follows:

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

W = Width of offset in feet (meters).

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

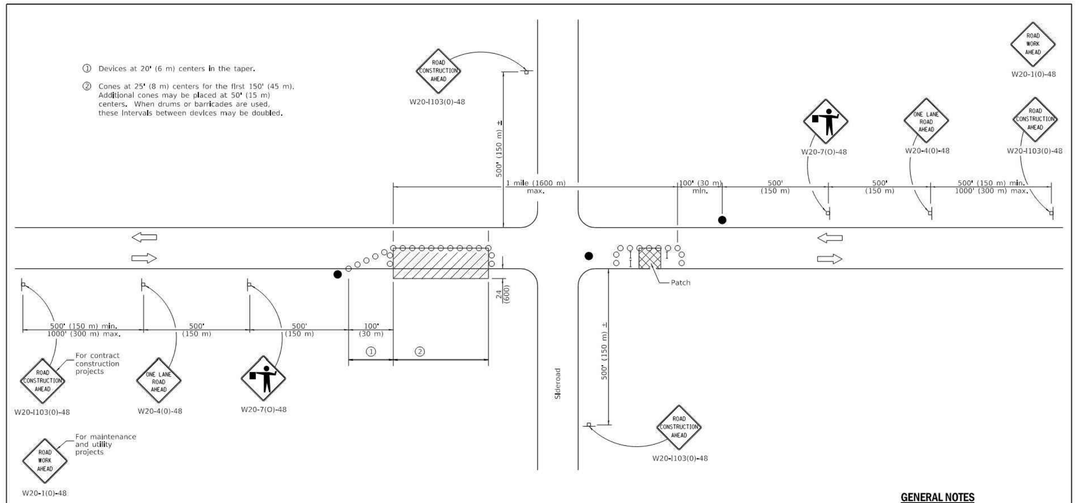
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-07

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

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

STANDARD 701006-05



TYPICAL APPLICATIONS

Isolated patching
Utility operations
Storm sewer
Culverts
Cable placement

SYMBOLS

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

GENERAL NOTES

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

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

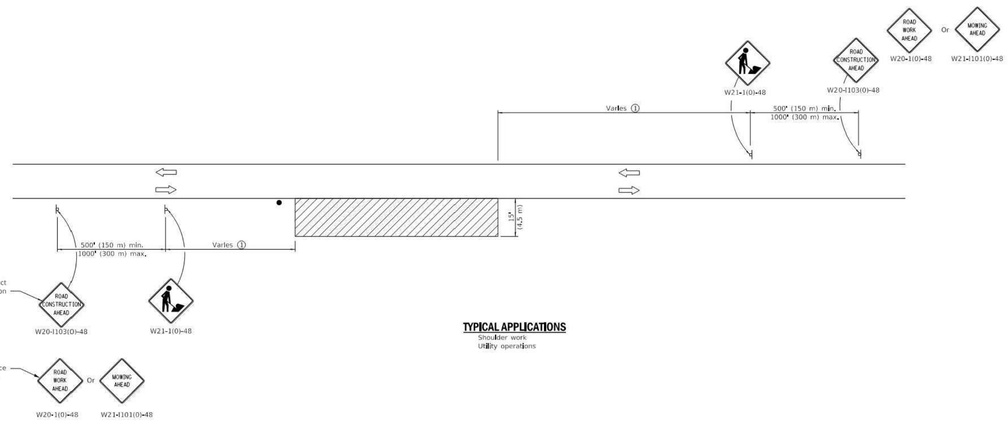
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2019
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2019
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-07

DATE	REVISIONS
1-1-19	Revised device spacing in taper.
1-1-11	Revised flagger sign.

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

STANDARD 701201-05



TYPICAL APPLICATIONS

Shoulder work
Utility operations

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ¼ the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

SYMBOLS

Work area
Sign
Flagger with traffic control sign when required

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 3 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

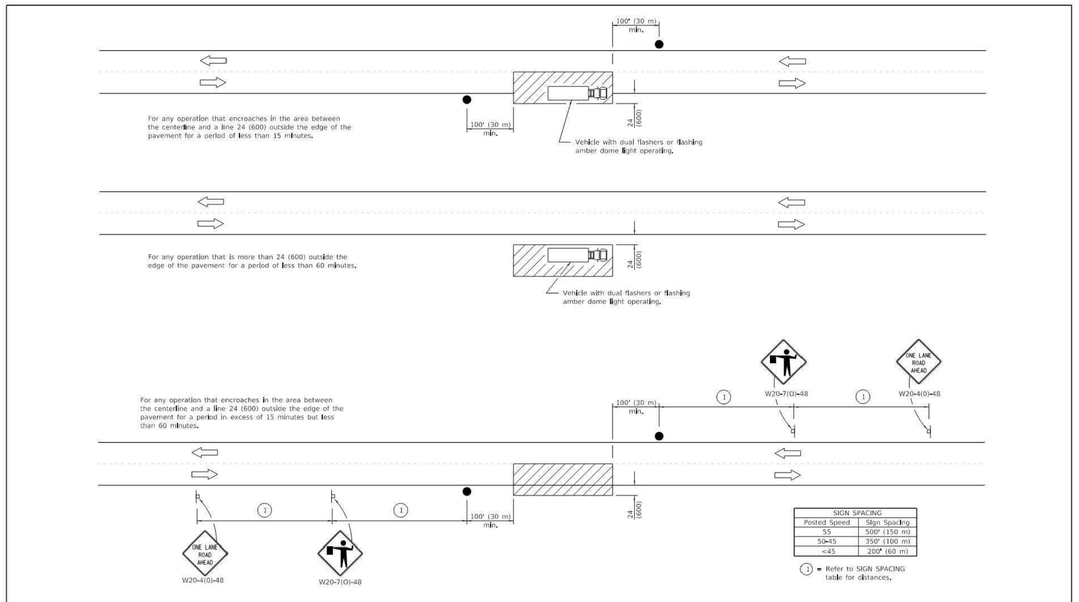
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-07

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

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

STANDARD 701011-04



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.

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

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

Illinois Department of Transportation
PASSED January 1, 2011
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-07

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

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL DETAILS

DSGN. TLB
DWN. TLB
CHKD. VDP
SCALE : AS NOTED
DT210222.DWG

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

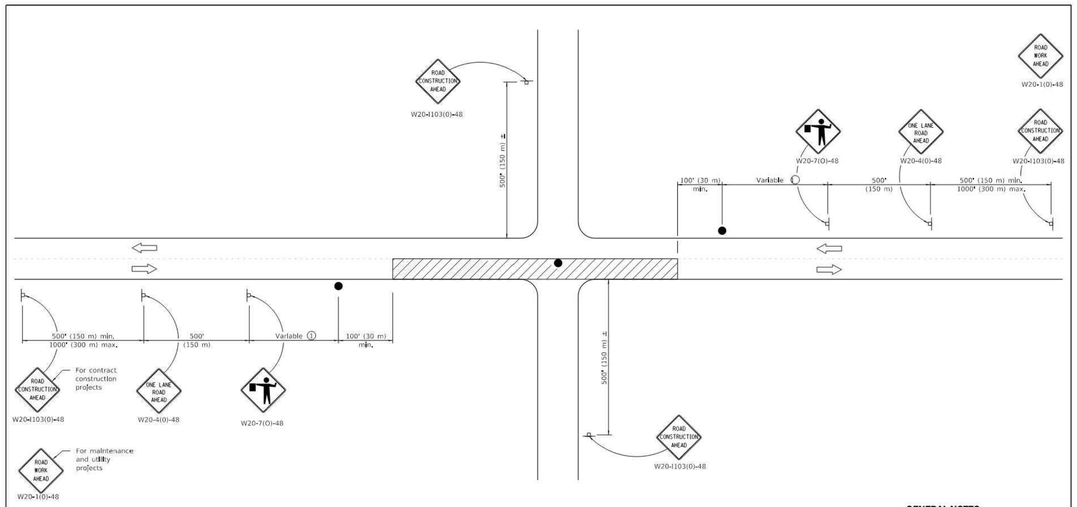
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. TC1
SHEET:
18 OF 24

UPDATED: 12/7/2022 - SQUIEVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID



TYPICAL APPLICATIONS

Bituminous resurfacing
Milling operations
Utility operations
Shoulder operations

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation or 2 miles (3200 m), whichever is less.

SYMBOLS

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

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities require an intermittent or continuous moving operation on the pavement where the average speed of movement is greater than ½ mph (1 km/h) and less than 4 mph (6 km/h).

When the operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

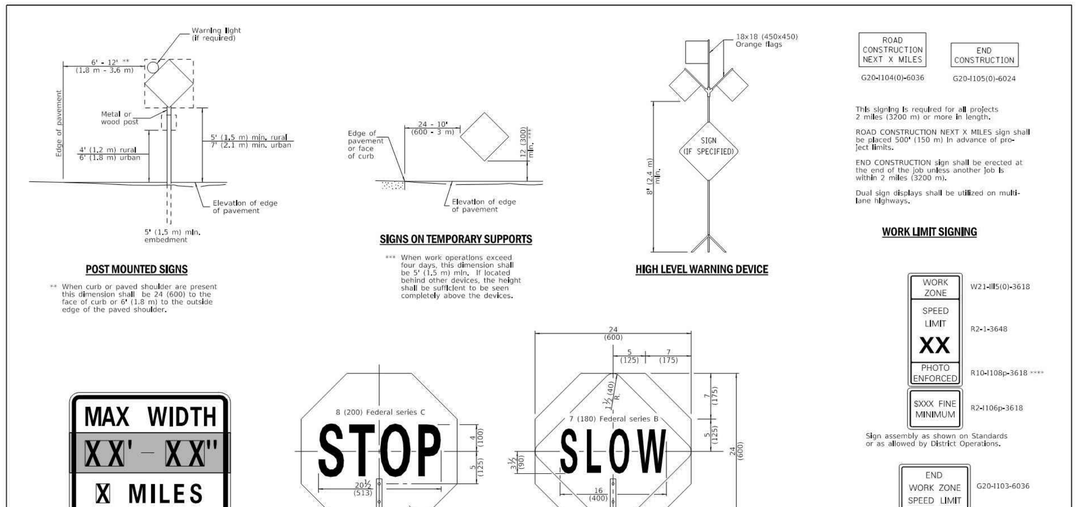
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2018 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2018 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-07

DATE	REVISIONS
1-1-18	Revised lower speed limit
	for operation to ½ mph.
1-1-11	Revised flagger sign.

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

STANDARD 701306-04



POST MOUNTED SIGNS

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

SIGNS ON TEMPORARY SUPPORTS

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

HIGH LEVEL WARNING DEVICE

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 — W21-4B5(0)-3618
SPEED LIMIT XX — R2-1-3648
PHOTO ENFORCED — R10-4108p-3618 ****
$XXX FINE MINIMUM — R2-1-106p-3618

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

END WORK ZONE SPEED LIMIT — G20-4-103-6036

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

HIGHWAY CONSTRUCTION SPEED ZONE SIGNS

**** R10-4-108p shall only be used along roadways under the jurisdiction of the State.

WIDTH RESTRICTION SIGN

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

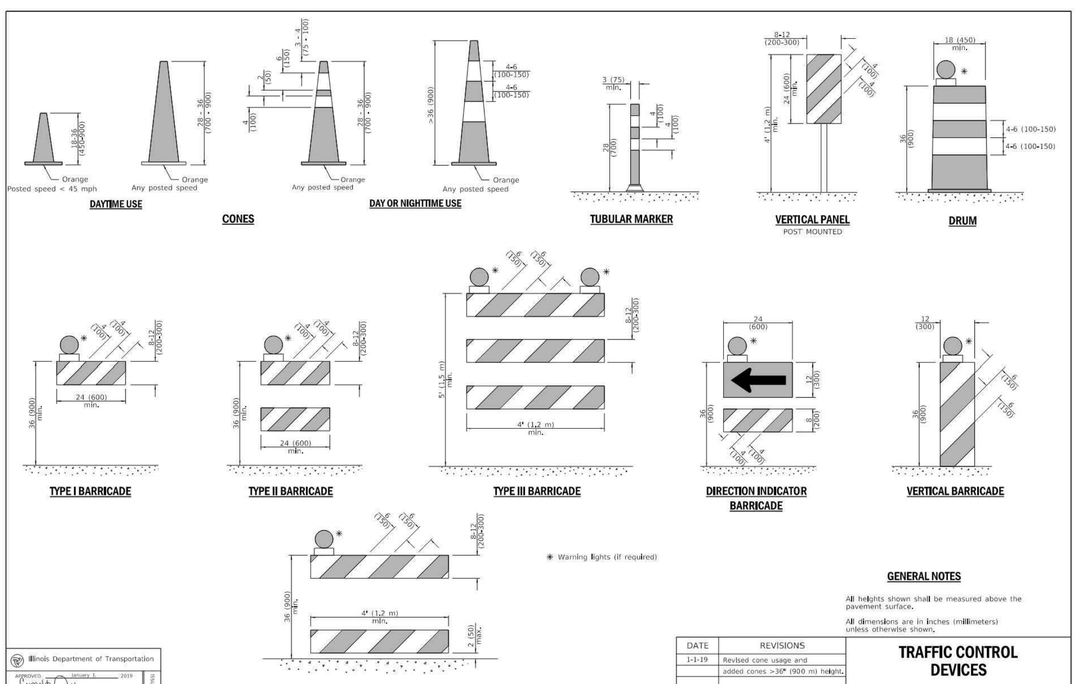
FLAGGER TRAFFIC CONTROL SIGN

Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-17

TRAFFIC CONTROL DEVICES

(Sheet 2 of 3)

STANDARD 701901-08



GENERAL NOTES

All heights shown shall be measured above the pavement surface.

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

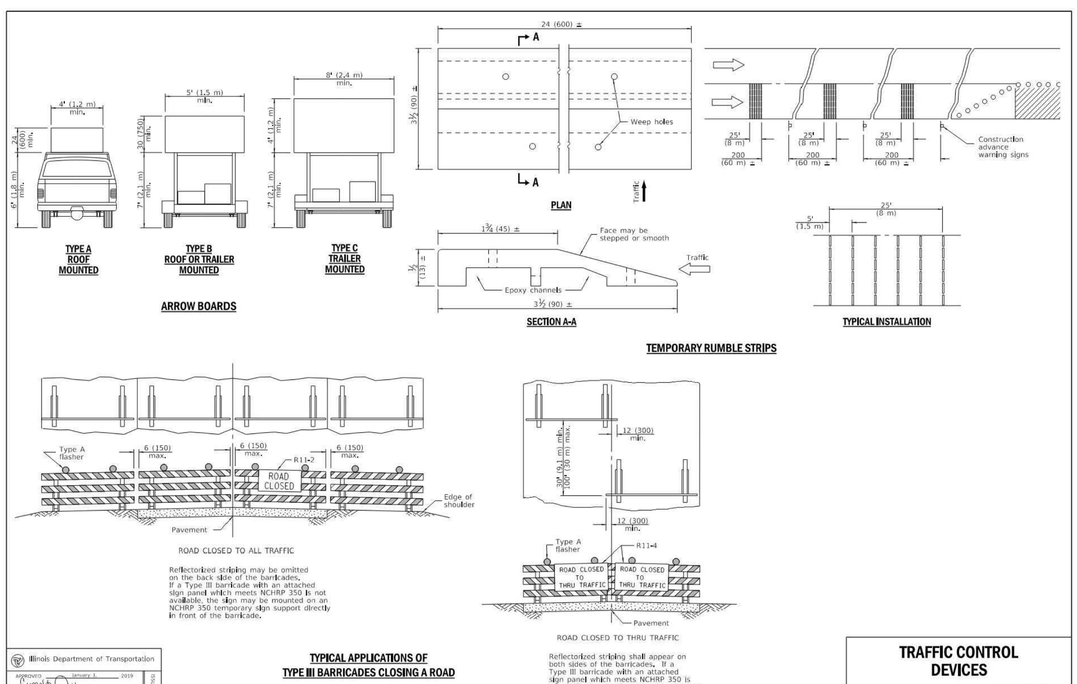
Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-17

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



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.

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.

Illinois Department of Transportation
APPROVED January 1, 2019 — ENGINEER OF SAFETY PROG. AND ENGINEERING
APPROVED January 1, 2019 — ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED: 1-1-17

TRAFFIC CONTROL DEVICES

(Sheet 3 of 3)

STANDARD 701901-08

TITLE: NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL DETAILS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
DT210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. TC2
SHEET:

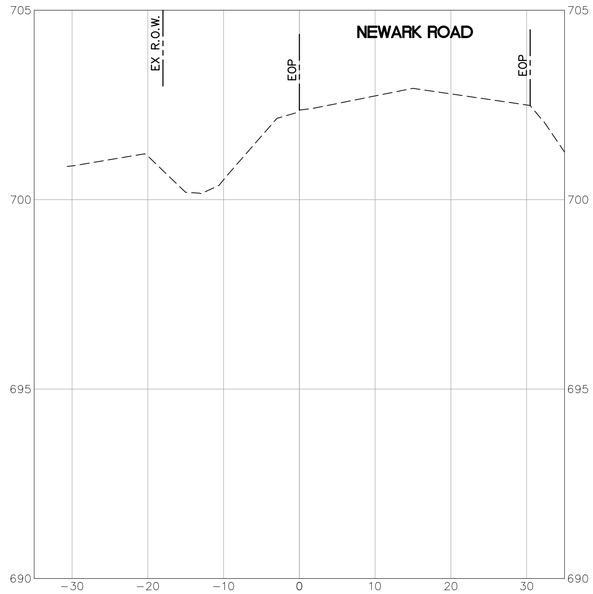
UPDATED: 12/7/2022 - SQIELVANGHESE

SECTION NO. 21-00162-00-DR

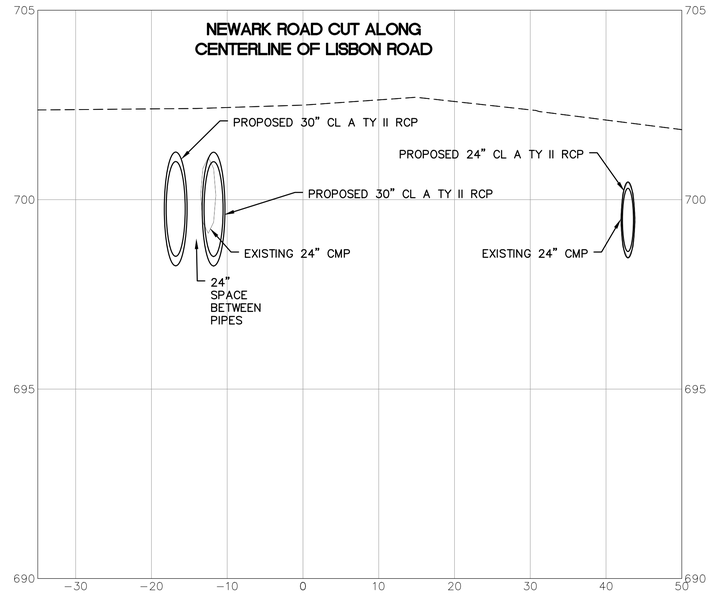
ISSUED FOR BID

SECTION VIEW SCALE:
1" = 10' HORIZONTAL
1" = 2' VERTICAL

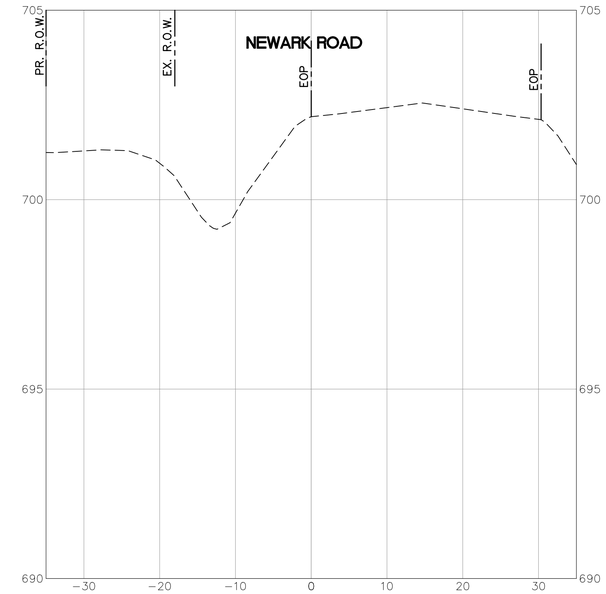
102+00



102+55



103+00



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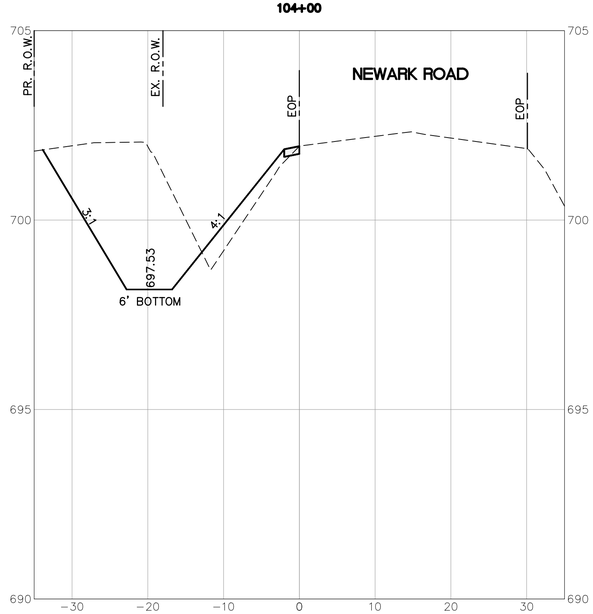

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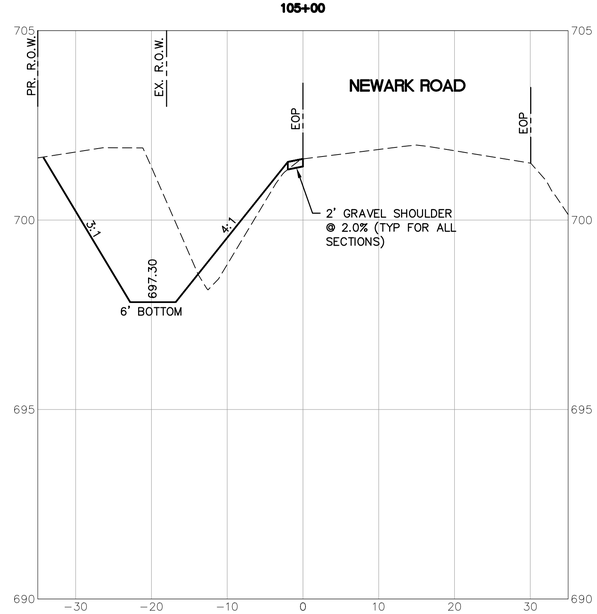

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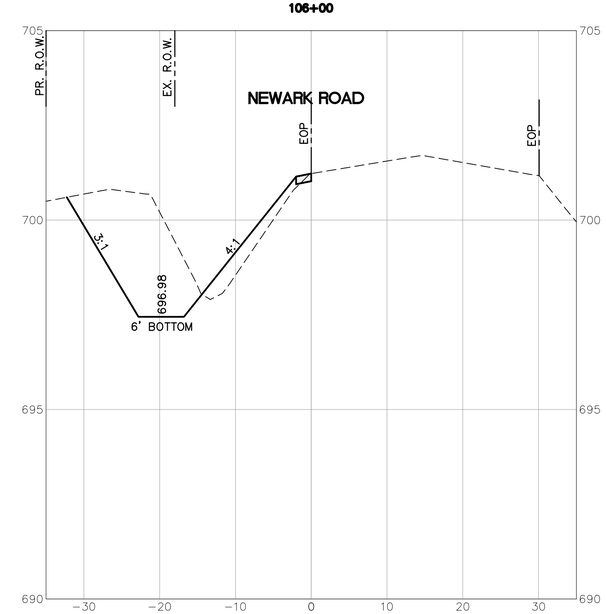


TITLE:
NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

CROSS SECTIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
XS210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **XS1**
SHEET:
20 OF 24

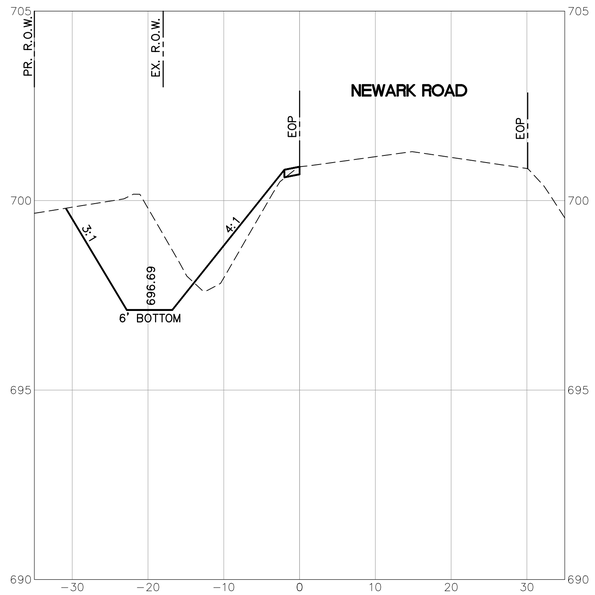
UPDATED: 1/27/2022 - SCIEVVARGHESE

SECTION NO. 21-00162-00-DR

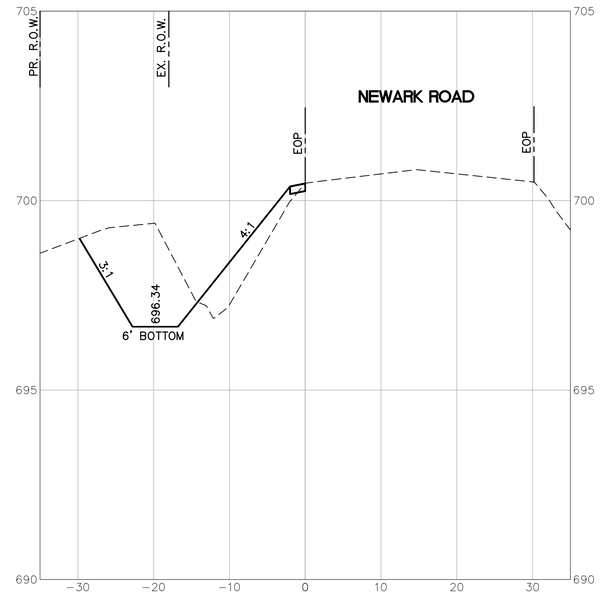
ISSUED FOR BID

SECTION VIEW SCALE:
1" = 10' HORIZONTAL
1" = 2' VERTICAL

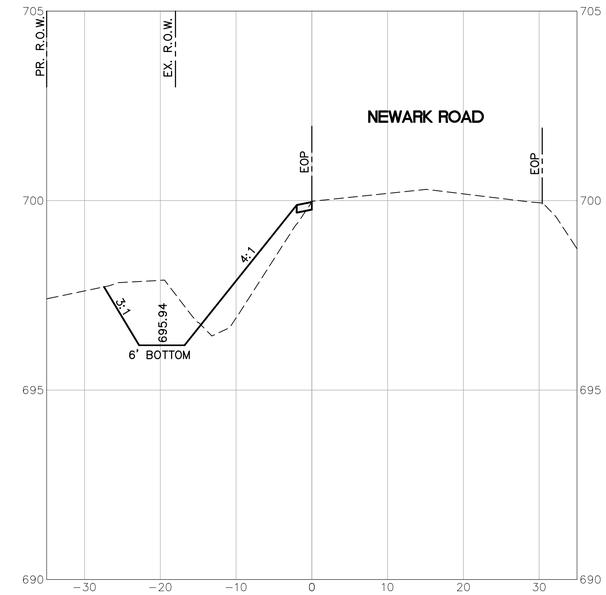
107+00



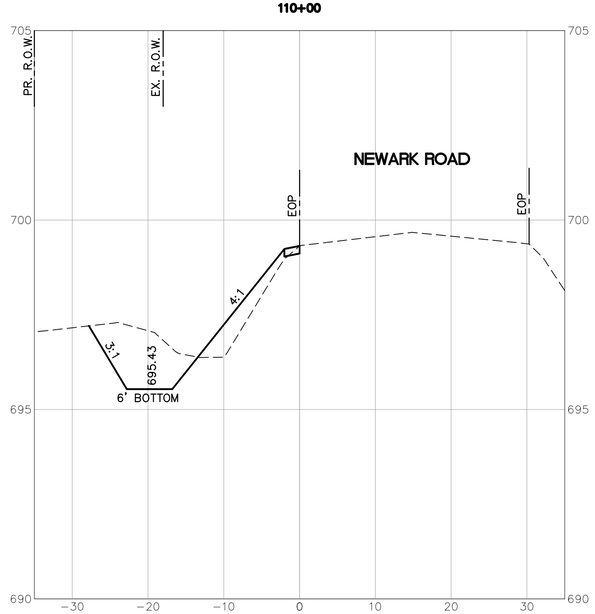
108+00



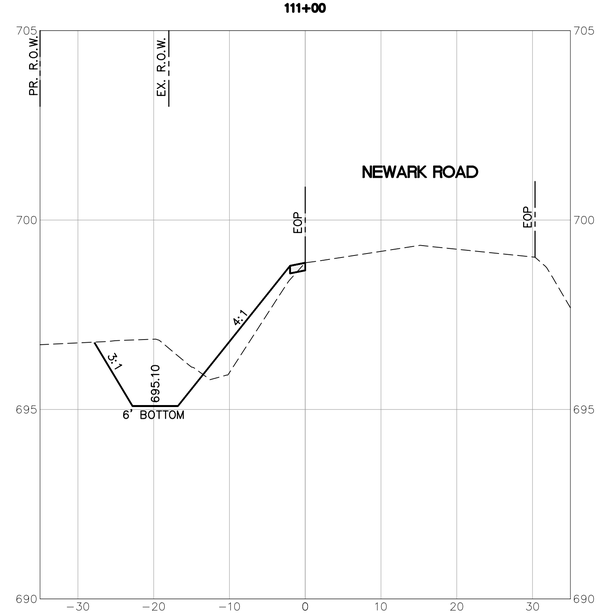
109+00



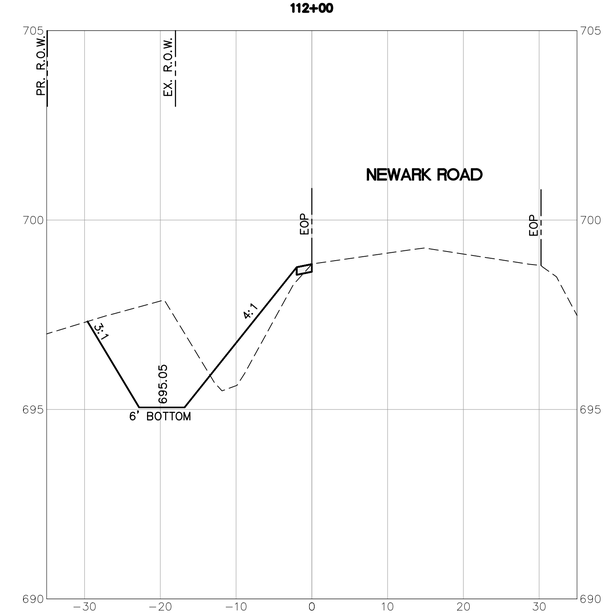
110+00



111+00



112+00



TITLE: **NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS**

CROSS SECTIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
XS210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT: **KENDALL COUNTY HIGHWAY DEPARTMENT**
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **XS2**
SHEET:
21 OF 24

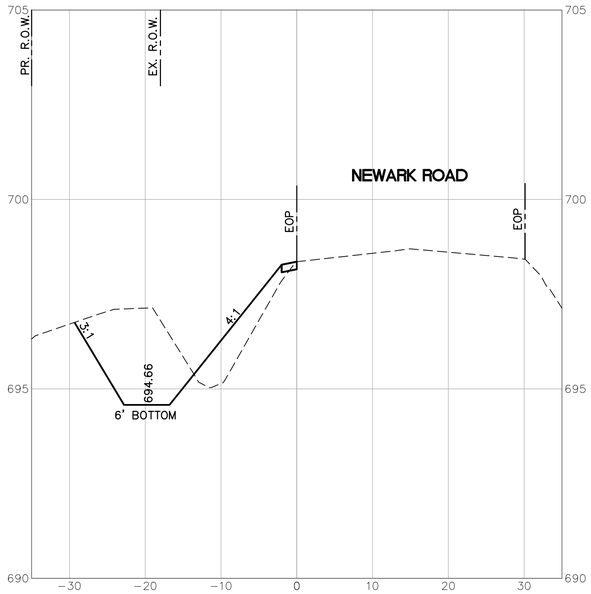
UPDATED: 1/27/2022 - SCIEVARGHESE

SECTION NO. 21-00162-00-DR

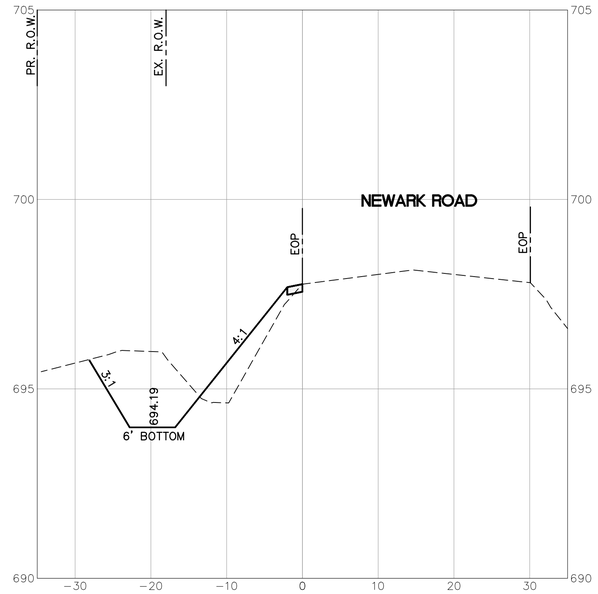
ISSUED FOR BID

SECTION VIEW SCALE:
1" = 10' HORIZONTAL
1" = 2' VERTICAL

113+00



114+00



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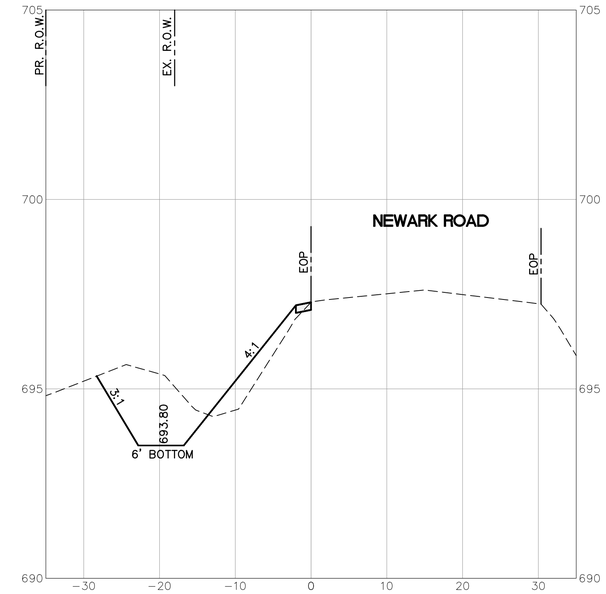

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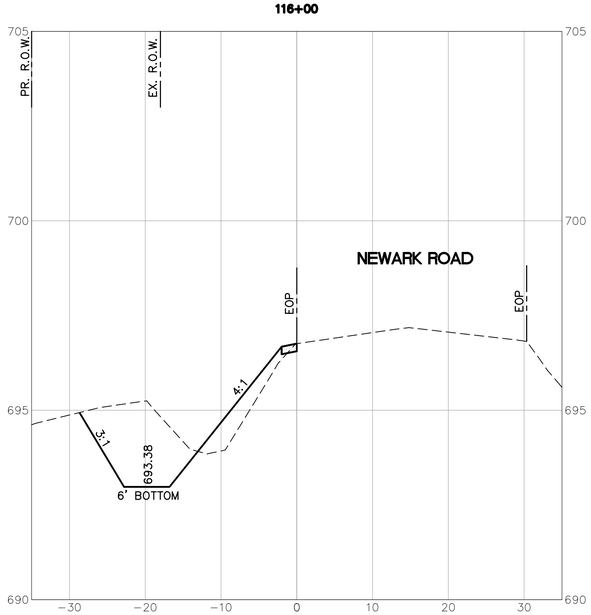
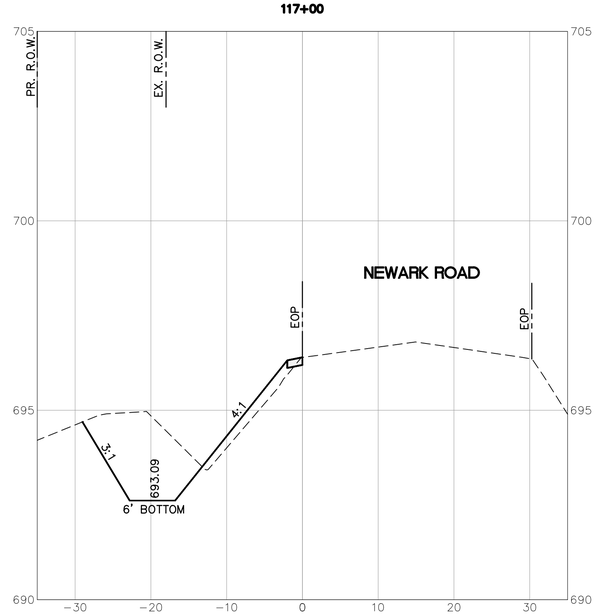


117+00



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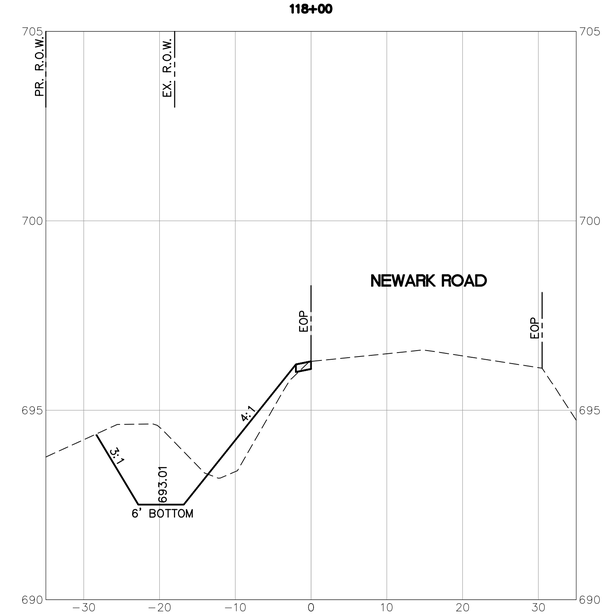


TITLE:
NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS

CROSS SECTIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
XS210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **XS3**
SHEET:
22 OF 24

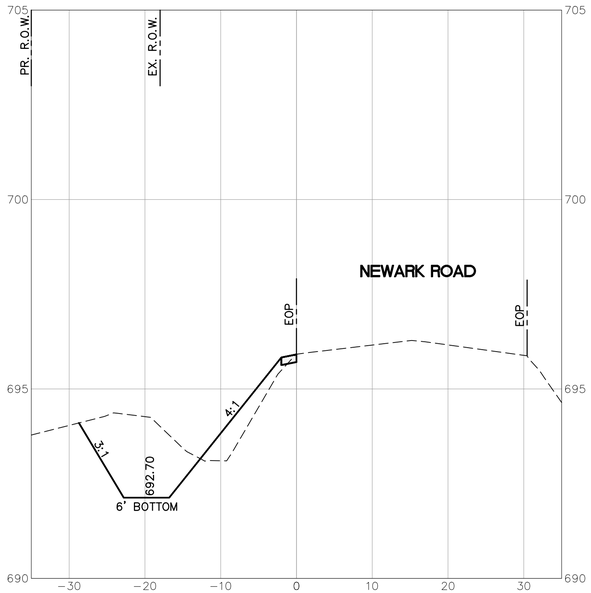
UPDATED: 1/27/2022 - SCIEVVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

SECTION VIEW SCALE:
1" = 10' HORIZONTAL
1" = 2' VERTICAL

119+00



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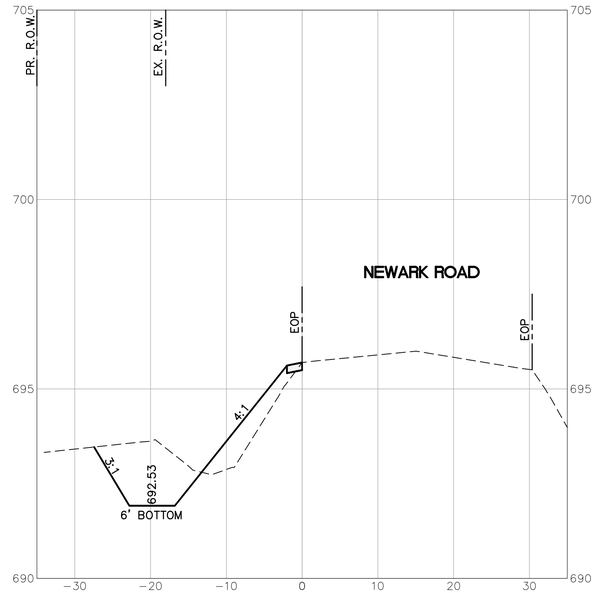

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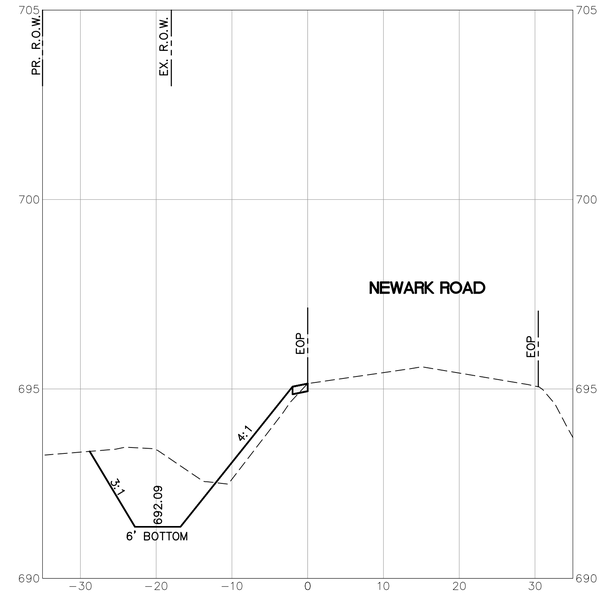

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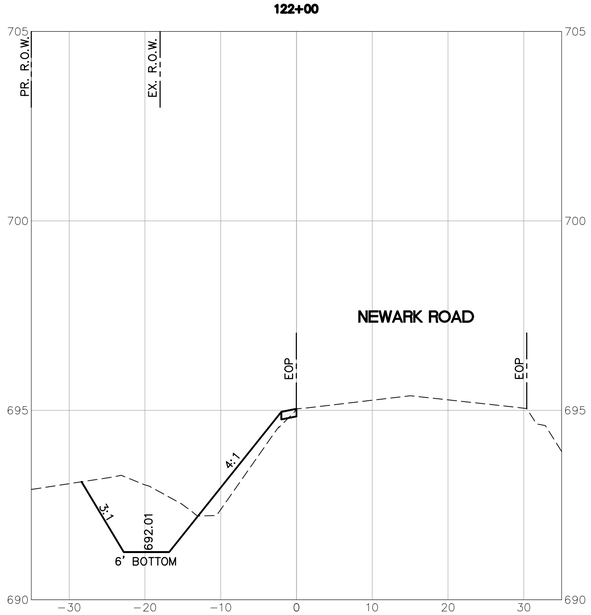

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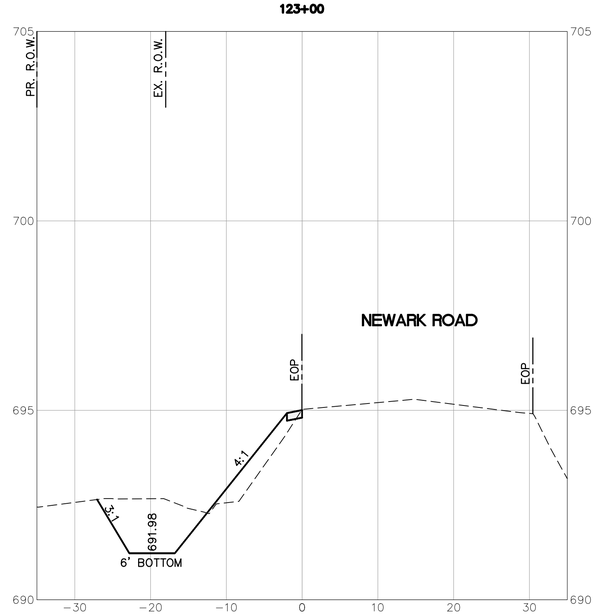

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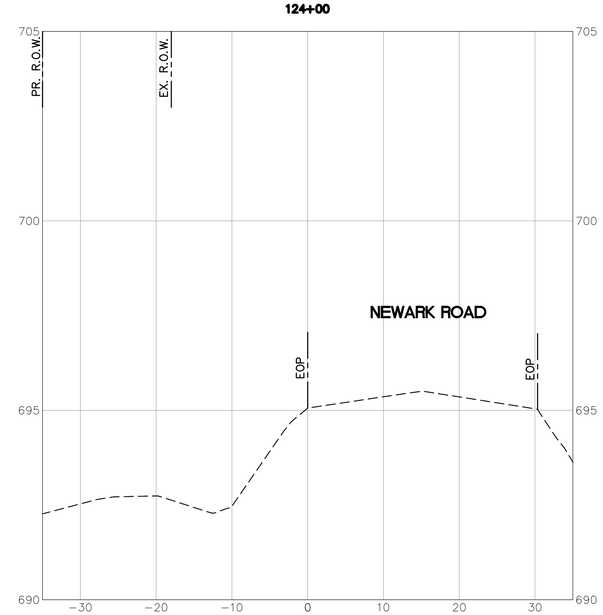

TITLE: **NEWARK ROAD - C.H. 4 DRAINAGE IMPROVEMENTS**

CROSS SECTIONS

DSGN.	TLB
DWN.	TLB
CHKD.	VDP
SCALE : AS NOTED	
XS210222.DWG	

NO.	DATE	NATURE OF REVISION

CLIENT:
KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. **XS4**
SHEET:
23 OF 24

UPDATED: 1/27/2022 - SCIEVARGHESE

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

			Earth Excavation		Fill	
Station	Earth Excavation	Fill	Average End Area	Volume	Average End Area	Volume
	SF	SF	SF	CY	SF	CY
102+95	0.00	0.00				
104+00	48.05	5.57	24.03	93.43	2.79	10.83
105+00	47.11	5.53	47.58	176.22	5.55	20.56
106+00	33.59	5.63	40.35	149.44	5.58	20.67
107+00	29.13	6.17	31.36	116.15	5.90	21.85
108+00	26.23	9.22	27.68	102.52	7.70	28.50
109+00	14.42	9.36	20.33	75.28	9.29	34.41
110+00	14.90	6.02	14.66	54.30	7.69	28.48
111+00	16.55	6.47	15.73	58.24	6.25	23.13
112+00	27.89	8.56	22.22	82.30	7.52	27.83
113+00	26.01	9.18	26.95	99.81	8.87	32.85
114+00	19.71	8.01	22.86	84.67	8.60	31.83
115+00	18.63	6.43	19.17	71.00	7.22	26.74
116+00	21.72	6.10	20.18	74.72	6.27	23.20
117+00	23.08	3.86	22.40	82.96	4.98	18.44
118+00	19.88	5.91	21.48	79.56	4.89	18.09
119+00	22.24	6.19	21.06	78.00	6.05	22.41
120+00	15.81	7.25	19.03	70.46	6.72	24.89
121+00	21.41	3.84	18.61	68.93	5.55	20.54
122+00	18.93	4.62	20.17	74.70	4.23	15.67
123+00	14.42	5.53	16.68	61.76	5.08	18.80
123+50	10.00	4.00	12.21	22.61	4.77	8.82
124+00	0.00	0.00	5.00	9.26	2.00	3.70
			Total:	1786.32	Total:	482.25

TITLE: NEWARK ROAD - C.H. 4
DRAINAGE IMPROVEMENTS

CROSS SECTION
EARTHWORK TABLE

DSGN. TLB
DWN. TLB
CHKD. VDP
SCALE : AS NOTED
XS210222.DWG

NO.	DATE	NATURE OF REVISION

CLIENT: KENDALL COUNTY HIGHWAY DEPARTMENT
6780 IL ROUTE 47
YORKVILLE, IL 60560
630-553-7616

WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

PROJECT NO. 210222
DATE : 4/22/2022
DRAWING NO. XS5
SHEET:
24 OF 24

SECTION NO. 21-00162-00-DR

ISSUED FOR BID

UPDATED: 1/27/2022 - SCIEVVARGHESE