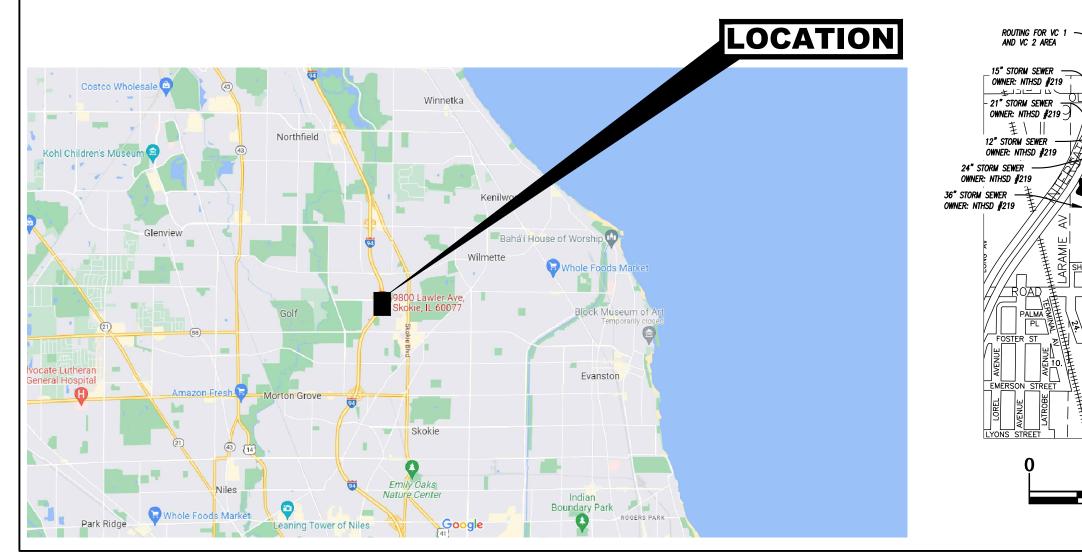
# SYMBOL AND LINE LEGEND

$\bigotimes$		VALVE VAULT	W	W	WATERMAIN PIPE
$\otimes$	0	WATER B-BOX	>	<b>→</b>	STORM SEWER PIPE
$\boxtimes$	٨	WATER VALVE BOX	$\longrightarrow$	>>	STORM UNDERDRAIN
<del>ک</del> ې ۴۲۶	<b>₩</b>	FIRE HYDRANT	—)		SANITARY SEWER PIPE
	8	WELL HEAD	—— IRR —— ——	— IRR ———	IRRIGATION SLEEVE/PIPING
₹¥	~	FIRE DEPARTMENT CONNECTION	——— E ———	— Е——	ELECTRICAL DUCT BANK
		STORM INLET	—— G ——	— G——	NATURAL GAS LINE
$\bigcirc$	۲	STORM MANHOLE	COM	—сом——	COMMUNICATIONS LINE
$\bigcirc$	$\bullet$	CATCH BASIN			CHILLED WATER SUPPLY
D	0	STORM CLEANOUT			CHILLED WATER RETURN
O DS	DS	DOWNSPOUT	TV	— TV ——	TELEVISION CABLE
		FLARED END SECTION	—— UGW —— ——	— UGW——	UNDERGROUND WIRE
		SANITARY MANHOLE	—— T ——	T	TELEPHONE CABLE
S	0	SANITARY CLEANOUT	——F0—	—F0 ——	FIBER OPTIC CABLE
¢	*	LIGHT POLE	——— A ———	— A——	AERIAL WIRES
	•	TELEPHONE MANHOLE			CONSTRUCTION LIMITS
$\mathcal{O}$	~	POWER POLE			PROPERTY LINE
		GAS VALVE			EASEMENT LINE
	-	GAS METER			VENT LINE
ΗH	ΗН	HAND HOLE	——— HWL———	HWL	HIGH WATER LINE
Μ	М	MAIL BOX	NWL		NORMAL WATER LINE
	ـ	ELECTRICAL MANHOLE	00		CHAIN LINK FENCE
TV		CABLE TV PEDESTAL	- X X	x	BARBED-WIRE FENCE
		TELEPHONE PEDESTAL			WOODEN FENCE
<del>.</del> 0-	●	TRAFFIC OR STREET SIGN		//	SILT FENCE
		SOIL BORING	ALM S	15°V3	
× 0.00	ſ	21.56 SPOT ELEVATION			DECIDUOUS TREE
	1	SURFLACE FLOW	Talla	Tes Las	
	入	100-YEAR OVERFLOW		Ĵ	Shrub or bush
					EVERGREEN TREE

LOCATION MAP



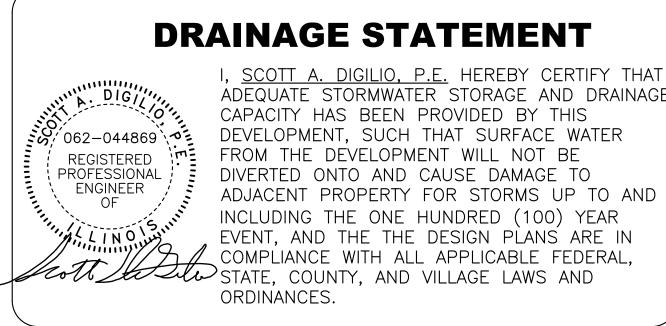
NOTES

# FINAL ENGINEERING PLANS NILES NORTH HS SYNTHETIC FIELDS 9800 LAWLER AVE, SKOKIE, IL

DESIGNATED TO PENANN. ANY DAWAGE BY THE CONTRACTOR TO UTILITIES, STREETS, STRUCTURES, VEGETATION AND ADJACENT PROPERTY WILL BE REPLACED OR REPARED AT THE CONTRACTOR'S EXPENSE. 15. THE CONTRACTOR TO ADJUST RIMS OF EXISTING STRUCTURES WITHIN SCOPE OF WORK TO FINAL GRADE ELEVATIONS. 17. EXISTING LATERAL CONNECTIONS FOR UTILITIES SHALL BE COORDINATED WITH THE CORRESPONDING UTILITY COMPANY FOR CAPPING AND CUT OFF WITHIN THE SCOPE OF WORK. 18. CONTRACTOR TO ADJUST RIMS OF EXISTING STRUCTURES WITHIN SCOPE OF WORK. 19. EXISTING LATERAL CONNECTIONS FOR UTILITIES SHALL BE COORDINATED WITH THE CORRESPONDING UTILITY COMPANY FOR CAPPING AND CUT OFF WITHIN THE SCOPE OF WORK. 19. EXISTING LATERAL CONNECTIONS FOR UTILITIES SHALL BE COORDINATED WITH THE CORRESPONDING UTILITY WITH WARD AND AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT WITH WARD AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT WITH WARD AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT WITH WARD AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT WITH WARD AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT WITH WARD AND CUT OFF WITHIN THE SCOPE OF WORK. 10. CONTRACT 10. C	ļ			
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SITE ACCESS CONTROL INCLUDING SAFETY FENCES AND TRAFFIC CONTROL, ALL CONSTRUCTION MEANS AND METHODS, AND SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

Sheet List Table		
Sheet Number	Sheet Title	Revision Date
C0.0	COVER SHEET	
C0.1	Specifications	
C0.2	MWRD NOTES	
C1.0	DEMOLITION PLAN	
C2.0	SITE PLAN	
C2.1	CURB LIMIT EXHIBIT	
C3.0	UTILITY PLAN	
C4.0	GRADING PLAN	
C5.0	STORM WATER POLLUTION PREVENTION PLAN	
C5.1	STORM WATER NOTES	
C5.2	STORM WATER DETAILS	
C6.0	DETAILS	
C6.1	DETAILS	
C6.2	DETAILS	
C6.3	DETAILS	
C6.4	DETAILS	
C6.5	DETAILS	
C7.0	EXHIBIT R & MWRD DRAINAGE EXHIBIT	



TO INDEMNIFY

ACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE MUNICIPALITY, OWNER, AND ENGINEER, AND THEIR RESPECTIVE BOARD REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES SES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO, THE PERFORMANCE OF THE WORK UNDER THE BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO, THE WS REGARDING STRUCTURAL WORK (IL. REV. STAT. CH. 48, PAR.60 AT SEQ.). AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS AT. CH.17 ½ PAR.51 ET. SEQ.). IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR CLAIMS THEREFORE, THE R SHALL GIVE PROMPT NOTICE TO THE OWNER.

t the Metropolitan **Reclamation District** ater Chicago <u>2 days</u> starting work.

588-4055

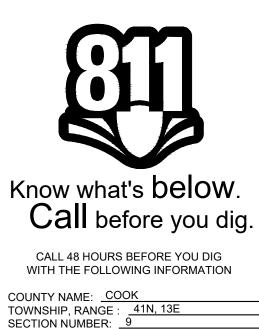
JobStart@mwrd.org

DATA SHEET FOR A MORE DETAILED DESCRIPTION)

ADEQUATE STORMWATER STORAGE AND DRAINAGE

Sheets C0.0 to C7.0 were prepared at or under the direction of: NA. DIGI, 062–044869`\ REGISTERED PROFESSIONAL ENGINEER OF LINO hott Harto ILLINOIS REGISTERED PROFESSIONAL ENGINEER No. 062-044869 SCOTT A. DIGILIO LICENSE EXPIRES: 11/30/2023

SIGNED: 07/03/2023



D 2 1 9 ILES TOWNSHIP HIGH SCHO STUDIO GC architecture + interio 223 West Jackson Boulevard, Suite 1200 Chicago, Illinois 60606 (312) 253-3400 650 E. Algonquin Road | Suite 250 Schaumburg, IL 60173 ph: 847.404.5239 IL Design Firm: 184006777-0002 219 **School District** eld etic High High nship ynthetic Tow Niles ഗ NO • ISSUE • DATE • IFC SET • 07/03/23 COVER SHEET



# GENERAL NOTES AND CONDITIONS

- 1. THE MUNICIPAL AUTHORITY GOVERNING THIS WORK IS THE MUNICIPALITY OF SKOKIE, IL.
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING SPECIFICATIONS. IF A CONFLICT ARISES BETWEEN ANY PROVISION(S) OF THE THESE STANDARDS AND SPECIFICATIONS, THEN THE MOST RESTRICTIVE PROVISION(S) SHALL APPLY.
  - A. ILLINOIS DEPARTMENT OF TRANSPORTATION (I.D.O.T.) "STANDARD SPECIFICATIONS FOR ROAD
  - AND BRIDGE CONSTRUCTION" LATEST EDITION. (STANDARD SPECIFICATIONS) B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST
  - FDITION C. "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS" AS PUBLISHED BY THE I.E.P.A.
  - D. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) LATEST EDITION.
  - E. THE MUNICIPALITY'S CODES, REGULATIONS, ORDINANCES AND STANDARDS. F. DETAILS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL" LATEST EDITION.
  - G. 2018 EDITION OF THE STATE OF ILLINOIS ACCESSIBILITY CODE AND/OR THE 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA).
- THE PROJECT SPECIFICATIONS SHALL GOVERN THE CONSTRUCTION OF THIS DEVELOPMENT WITH THE ABOVE SPECIFICATIONS. WHERE ANY CONFLICT MAY OCCUR, THE CONTRACTOR SHALL SUBMIT IN WRITING A NOTICE OF SUCH CONFLICT TO THE OWNER'S REPRESENTATIVE OR ENGINEER FOR A WRITTEN DECISION ON WHICH MAY GOVERN.
- 4. IN THE EVENT OF CONFLICTS, ERRORS, OR AMBIGUITIES IN THE DOCUMENTS CLIENT AND OR CONTRACTOR SHALL IMMEDIATELY, AND BEFORE ANY WORK HAS BEGUN OR COSTS INCURRED, REQUEST CLARIFICATION FROM THE ENGINEER WHOSE INTERPRETATION SHALL BE FINAL AND BINDING UPON ALL PARTIES CONCERNED. NEITHER CLIENT NOR CONTRACTOR SHALL TAKE ADVANTAGE OF CONFLICTS, ERRORS, OR AMBIGUITIES IN THE DOCUMENTS. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. FAILING TO SECURE SUCH CLARIFICATION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE.
- THE STANDARD SPECIFICATIONS, CONSTRUCTION PLANS AND SUBSEQUENT DETAILS ARE ALL TO BE 5. CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.
- 6. THE MUNICIPALITY SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE AND REJECT THE CONSTRUCTION OF THE IMPROVEMENTS CONSTRUCTED UNDER THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES INDICATED ON THE ENGINEERING PLANS. THE QUANTITIES SHOWN ARE ESTIMATED FOR BIDDING PURPOSES ONLY, ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER. THE BIDDER SHALL CAREFULLY EXAMINE ALL CONTRACT DOCUMENTS. VISIT THE PROJECT SITE AND FULLY INFORM THEMSELVES AS TO ALL CONDITIONS AND MATTERS WHICH CAN AFFECT THEIR WORK AND THE COST THEREOF. ANY DISCREPANCIES, OMISSIONS OR DOUBTS IN INTENT OF THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING OF ANY BID.
- 8. THE IMPROVEMENTS SHOWN ON THE ENGINEERING PLANS SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND EQUIPMENT, ETC., AS NECESSARY TO PERFORM THE WORK INDICATED.
- 9. NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION".
- 10. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH OSHA REQUIREMENTS AND MUNICIPALITY REGULATIONS AND STANDARDS AND SHALL CONFORM IN ALL RESPECTS TO ALL STATE AND FEDERAL
- 11. UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM THE BEST AVAILABLE SOURCE AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR MUST CALL 811 OR J.U.L.I.E AT 800.892-0123 AT LEAST 48 HOURS BEFORE THE START OF ANY CONSTRUCTION WORK. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COSTS HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE, OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NON-SUBSCRIBING UTILITIES. THE CONTRACTOR(S) SHALL CONTACT LOCAL UTILITY LOCATION SERVICE FOR ASSISTANCE IN LOCATING EXISTING UTILITIES. IF ANY EXISTING UTILITIES ARE ENCOUNTERED OR DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPAIRED PROPERLY BY THE CONTRACTOR. IF THEY ARE UTILITIES TO BE ABANDONED, THEY SHALL BE CAPPED, SEALED AND ABANDONED PROPERLY PER THEIR RESPECTIVE OWNER'S CRITERIA.
- 12. THE MUNICIPALITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY APPROVED CONSTRUCTION ACTIVITY AND TO SCHEDULE ALL REQUIRED INSPECTIONS.
- 13. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORD.
- 14. EXCAVATIONS SHOULD COMPLY WITH THE REQUIREMENTS OF OSHA 29CFR, PART 1926, SUBPART P, "EXCAVATIONS" AND ITS APPENDICES, AS WELL AS OTHER APPLICABLE CODES. THIS DOCUMENT STATES THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF STABLE, TEMPORARY EXCAVATIONS. THE EXCAVATIONS SHOULD NOT ONLY BE IN ACCORDANCE WITH CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS BUT ALSO WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHOULD SHORE, SLOPE OR BENCH THE EXCAVATION SIDES WHEN APPROPRIATE. SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL ALSO BE RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCING OF CONSTRUCTION OPERATIONS.
- 15. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, EXCESS MATERIALS, DEBRIS, ETC. SHALL BE LEGALLY DISPOSED OF AT OFF-SITE LOCATIONS PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 16. CONSTRUCTION SITE SAFETY IS SOLE RESPONSIBILITY OF THE CONTRACTOR WHO CONTROLS THE MEANS. METHODS. AND SEQUENCING OF CONSTRUCTION OPERATIONS. UNDER NO CIRCUMSTANCES SHALL THE INFORMATION PROVIDED HEREIN BE INTERPRETED TO MEAN RTM IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY, OR THE CONTRACTOR'S ACTIVITIES; SUCH RESPONSIBILITY SHALL NEITHER BE IMPLIED NOR INFERRED.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE SIGNS, BARRICADES, FENCING, TRAFFIC CONTROL DEVICES AND MEASURES, AND ALL OTHER MEASURES THAT ARE NECESSARY TO PROTECT THE SAFETY OF THE SITE AT ALL TIMES. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 700 OF THE STANDARD SPECIFICATIONS.
- 18. SITE ACCESS CONTROL INCLUDING SAFETY FENCES, AND ALL CONSTRUCTION MEANS AND METHODS AND SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 19. ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR REMOVAL OR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE CITY OR COUNTY AS APPROPRIATE.
- 20. ALL PERMANENT TYPE PAVEMENTS OR PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE FULL DEPTH SAW-CUT PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR REMOVAL OF EACH ITEM AND REPLACEMENT WILL BE PAID UNDER THE RESPECTIVE ITEMS IN THE CONTRACT, UNLESS OTHERWISE INDICATED.
- 21. WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH ARTICLE 253.09 OF THE STANDARD SPECIFICATIONS, AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT. IF TREES OR SHRUBS MUST BE REMOVED, THEY WILL BE PAID FOR IN ACCORDANCE WITH THE SPECIFICATIONS.
- 22. WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS. AND NO ITEM IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 23. CONTRACTOR SHALL RETAIN THE SERVICES OF AN ILLINOIS PROFESSIONAL ENGINEER OR A PROFESSIONAL ILLINOIS LAND SURVEYOR TO PREPARE RECORD DRAWINGS SHOWING THE ELEVATION OF ALL RIMS AND INVERTS OF ALL PIPES AND STRUCTURES, PIPES, LOCATION OF ALL VALVES, STRUCTURES, FIRE HYDRANTS, UNDERGROUND PIPES, AND RECORD THE INFORMATION ON THE RECORD DRAWINGS AT THE JOB SITE AS THE WORK PROGRESSES. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL FURNISH A COMPLETE SET OF REPRODUCIBLE RECORD DRAWINGS SIGNED AND SEALED BY AN ILLINOIS PROFESSIONAL ENGINEER OR A PROFESSIONAL LAND SURVEYOR.
- 24. CONTRACTOR SHALL RETAIN THE SERVICES OF AN ILLINOIS PROFESSIONAL SURVEYOR TO STAKE OUT THE GRADE AND HORIZONTAL LAYOUT OF THE NEW WORK. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT AND PRESERVE ANY ESTABLISHED REFERENCE POINTS AND STAKES AND SHALL MAKE NO CHANGES OR RELOCATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNER. CONTRACTOR SHALL REPORT TO ENGINEER WHENEVER ANY REFERENCE POINT IS LOST OR DESTROYED OR REQUIRES RELOCATION BECAUSE OF NECESSARY CHANGES IN GRADES OR LOCATIONS, AND SHALL BE RESPONSIBLE FOR THE ACCURATE REPLACEMENT OR RELOCATION OF SUCH REFERENCE POINTS BY PROFESSIONALLY QUALIFIED PERSONNEL AT HIS OR HER OWN EXPENSE.
- 25. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATION'S REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE GENERAL CONTRACTOR, FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

- 26. N/A
- 28. ALL ROADS, SWALES, DRAINAGE STRUCTURES, MANHOLES AND PIPES MUST BE KEPT CLEAN AND FREE OF DIRT, SILT AND DEBRIS AT ALL TIMES.
- CRITERIA
- ASSIGNS.
- WORKMANSHIP

- GEOTECHNICAL INVESTIGATION REPORT WILL BE PROVIDED.
- EROSION CONTROL PLANS AND SWPPP.
- DISCRETION OF THE MUNICIPALITY.
- EXCAVATED OR FILLED TO DESIGN SUBGRADE.
- STOCKPILING OF SOIL SHALL BE AT LOCATIONS APPROVED BY THE OWNER.
- SUBMITTED TO THE OWNER & ENGINEER.
- ALL TEST RESULTS SHALL BE SUBMITTED TO THE OWNER & ENGINEER.
- CREATED AS A RESULT THEREOF.
- WITH SOD.
- CONSTRUCTION." AND SUPPLEMENTAL SPECIFICATIONS. LATEST EDITIONS.
- AT A RATE OF 0.3 GALLONS PER SQUARE YARD.
- CONCRETE CURBS (& GUTTERS):
- SFALANT.
- GUTTER, AND AT 40 FOOT INTERVALS ON TANGENTS.
- INSTALLED WITH GREASE CAPS ON ONE SIDE.
- GOVERNING MUNICIPALITY.

- 4. CONCRETE SIDEWALK (INCLUDING CURB RAMPS):

  - SHALL BE 1/4 INCH IN WIDTH.

  - MATCHING THE COLOR OF THE SIDEWALK.
  - FOOT LONG, CENTERED OVER TRENCH.

27. THE CONTRACTOR, BY AGREEING TO PERFORM THE WORK, AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, THE ENGINEER, THE CITY, AND ALL AGENTS AND ASSIGNS OF THOSE PARTIES, FROM ALL SUITS AND CLAIMS ARISING OUT OF THE PERFORMANCE OF SAID WORK, AND FURTHER AGREES TO DEFEND OR OTHERWISE PAY ALL LEGAL FEES ARISING OUT OF THE DEFENSE OF SAID PARTIES.

29. IF ANY EXISTING UNDERGROUND UTILITIES ARE ENCOUNTERED OR DAMAGED DURING CONSTRUCTION,

THEY SHALL BE REPAIRED PROPERLY BY THE CONTRACTOR. IF THEY ARE UTILITIES TO BE ABANDONED, THEY SHALL BE CAPPED, SEALED AND ABANDONED PROPERLY PER THEIR RESPECTIVE OWNER'S

30. CONTRACTOR SHALL PURCHASE AND MAINTAIN FOR THE DURATION OF THE WORK INSURANCE TO PROTECT ENGINEER, OWNER, ALL OF THEIR AGENTS, EMPLOYEES, SUCCESSORS, AND ASSIGNS FROM ANY AND ALL CLAIMS ARISING OUT OF THE CONSTRUCTION OF THE WORK INCLUDING NAMING THEM AS ADDITIONAL INSURED ON THE CONTRACTORS GENERAL LIABILITY POLICY, WHICH SHALL STATE THAT IT IS PRIMARY IN COVERAGE TO ANY INSURANCE CARRIED BY AGENTS, EMPLOYEES, SUCCESSORS, OR

31. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A MINIMUM PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE, OR AS SPECIFIED IN THE PROJECT MANUAL. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND

32. ANY QUANTITIES CONTAINED IN THESE DOCUMENTS ARE APPROXIMATE AND ESTIMATED, AND ARE PRESENTED AS A GUIDE TO THE CONTRACTOR IN DETERMINING ALL QUANTITIES AND TO BECOME FAMILIAR WITH THE SITE CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS SUM FOR THE COMPLETE PROJECT, NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED, UNLESS ORDERED IN WRITING BY THE OWNER.

EARTHWORK AND GRADING

THE GEOTECHNICAL REPORT FOR THE PROJECT WAS PREPARED SHALL BE FOLLOWED. THE

SOIL EROSION CONTROL SPECIFICATIONS SHALL BE CONSIDERED AS PART OF THIS SECTION. ALL SOIL EROSION CONTROLS SHALL BE IN PLACE BEFORE THE START OF ANY SITE WORK, PER THE APPROVED

SOIL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS" SHALL BE FOLLOWED AT THE

ALL PROPOSED PAVEMENT AREAS SHALL BE STRIPPED OF ALL TOPSOIL AND UNSUITABLE MATERIAL AND

6. PROPOSED PAVEMENT AREAS AND WHEN APPLICABLE, BUILDING PADS, DRIVEWAYS AND SIDEWALKS SHALL BE EXCAVATED OR FILLED TO PLUS OR MINUS 0.1 FOOT OF DESIGN SUBGRADE ELEVATIONS BY THE CONTRACTOR. PRIOR TO PLACEMENT OF ANY PAVEMENTS, CURBS, WALK, ETC., THE SUBGRADE SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK, MINIMUM OF 20 TONS. PROOF-ROLLING SHALL BE WITNESSED THE GEOTECHNICAL ENGINEER, PROVIDED BY THE OWNER, AND THE MUNICIPAL REPRESENTATIVE. THE DENSITY OF IN-PLACE BASE, SUBGRADE AND ASPHALT PAVEMENT MATERIALS SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER. ALL TEST RESULTS SHALL BE

THE SUBGRADE SHALL BE FREE OF UNSUITABLE MATERIAL AND SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE (95) PERCENT OF MODIFIED PROCTOR DENSITY, PER ASTM D-1557. CONTRACTOR TO COORDINATE TESTING FOR COMPACTION WITH THE GEOTECHNICAL ENGINEER, PROVIDED BY THE OWNER.

DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS

UPON COMPLETION OF THE SURFACE IMPROVEMENTS, THE CONTRACTOR SHALL RE-SPREAD A MINIMUM OF A 6" LAYER OF TOPSOIL ON ALL DISTURBED PARKWAY AND LANDSCAPED/LAWN AREAS AND RESTORE

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOILS MATERIAL AS NECESSARY, PREPARING THE PAVEMENT SUBGRADE PLACING REQUIRED DEPTH OF TOPSOIL TO FINISH GRADE GRADING OF DRAINAGE SWALES, AND ALL OTHER TASKS AS DIRECTED BY THE OWNER OR ENGINEER.

PAVING

THE PROPOSED ASPHALT PAVEMENT SHALL CONSIST OF THE SUBGRADE COURSE (AS SPECIFIED) BASE COURSE, BITUMINOUS CONCRETE BINDER COURSE, AND BITUMINOUS CONCRETE SURFACE COURSE, OF THE THICKNESS AND MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS. PRIME COAT MATERIAL SHALL BE BITUMINOUS M.C. - 30. UNLESS SHOWN AS A BID ITEM, PRIME COAT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. ALL PAVEMENT MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE

ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND MUNICIPALITY PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER NECESSARY INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE ENGINEER TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. EQUIPMENT AND MANPOWER FOR CLEANING SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. PRIME COAT FOR THE BINDER COURSE SHALL ALSO BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT AND SHALL BE APPLIED TO THE BINDER

A. ALL CURB AND GUTTER SHALL BE CONSTRUCTED WITH IDOT CLASS "SI" CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 14 DAYS. ALL CONCRETE SHALL HAVE A MINIMUM FLEXURAL STRENGTH OF 650 PSI. ALL CONCRETE SHALL BE BROOM FINISHED. B. CONTRACTION JOINTS SHALL BE SAW-CUT AT 20 FOOT INTERVALS AND CAULKED WITH JOINT

C. PREFORMED FIBER BOARD EXPANSION JOINTS, 3/4 INCH THICK, SHALL BE PLACED FIVE FEET EITHER SIDE OF STORM STRUCTURES IN CURB AND GUTTER, AT CURB RETURNS AND AT POINTS OF CURVATURE. AT ALL CONNECTIONS BETWEEN NEW AND EXISTING CURB AND

D. 2-#5 DOWELS, 2 FEET LONG, SHALL BE PROVIDED AT ALL EXPANSION JOINTS AND AT CONNECTIONS BETWEEN EXISTING AND NEW CURB AND GUTTER. DOWELS SHALL BE CENTERED ON THE JOINT, (DRILLED INTO EXISTING CURB AND GUTTER), AND SHALL BE

E. THE PROPOSED CURB AND GUTTER AND PAVEMENT SHALL BE OF THE TYPE AND THICKNESS AS SPECIFIED IN THESE DRAWINGS, AND CONSTRUCTED IN CONFORMANCE WITH THE IDOT STANDARD SPECIFICATIONS PREVIOUSLY REFERENCED AND THE REQUIREMENTS OF THE

F. DEPRESSED CURB SHALL BE PROVIDED FOR HANDICAPPED RAMPS LOCATIONS.

G. ALL JOINTS SHALL BE SEALED WITH CONCRETE JOINT SEALANT PER NOTE 6 BELOW.

A. ALL SIDEWALK SHALL BE CONSTRUCTED WITH IDOT CLASS "SI" CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS. ALL CONCRETE SHALL HAVE A MINIMUM FLEXURAL STRENGTH OF 650 PSI. ALL CONCRETE SHALL BE LIGHTLY BROOM FINISHED.

B. TOOLED CONTRACTION JOINTS SHALL CONSTRUCTED AT EVERY  $\pm 5'$ , OR AS SHOWN ON PLANS. TOOLED CONTRACTION JOINTS SHALL EXTEND TO 1/4 THE DEPTH OF THE SIDEWALK AND

C. PREFORMED FIBER BOARD EXPANSION JOINTS, 3/4" THICK, SHALL BE PLACED EVERY 100' AND AT ALL ABUTTING DRIVEWAYS AND CURB AND GUTTER. FOR SIDEWALK ADJACENT TO CURB, EXPANSION JOINT SPACING SHALL MATCH CURB EXPANSION JOINTS AS PRACTICAL. FIBER BOARDS SHALL BE PLACED 1/2 INCH BELOW THE FINISHED SURFACE OF THE SIDEWALK AND CAULKED WITH JOINT SEALANT, MATCHING THE COLOR OF THE SIDEWALK.

D. PREFORMED EXPANSION JOINTS, 1/2" THICK, SHALL BE PLACED BETWEEN BUILDINGS, LIGHT POLES, TRAFFIC SIGNALS, AND OTHER RIGID STRUCTURES AND CAULKED WITH JOINT SEALANT,

E. ALL SIDEWALKS CROSSING UTILITY TRENCHES SHALL HAVE TWO #4 REINFORCING BARS, 10

F. DETECTIBLE WARNINGS SHALL CONSIST OF TRUNCATED DOMES MEETING THE REQUIREMENTS OF ADAAG AND INSTALLED AT LOCATIONS SHOWN ON PLAN AND WERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTIBLE WARNINGS SHALL BE AN APPROVED COLOR CONTRASTING TO THE CURB RAMP MATERIAL AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

4. CONCRETE PAVEMENT AND DRIVE APRONS:

- A. CONCRETE PAVEMENT SHALL BE CONSTRUCTED WITH IDOT CLASS "PV" CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS. IF A HIGH EARLY CONCRETE MIX IS REQUIRED TO REDUCE TRAFFIC CLOSURES, IDOT CLASS "PP" WITH PRIOR APPROVAL OF THE ENGINEER. ALL CONCRETE SHALL HAVE A MINIMUM FLEXURAL STRENGTH OF 650 PSI. ALL CONCRETE SHALL BE BROOM FINISHED.
- B. ADEQUATE CONSTRUCTION JOINTS, CONTRACTION JOINTS FOR ISOLATION JOINTS SHOULD BE PROVIDED IN THE AREAS OF RIGID PAVEMENT TO REDUCE THE IMPACTS OF CRACKING AND SHRINKAGE. PLEASE REFER TO ACI 330R-01 GUIDE FOR DESIGN OF CONCRETE PARKING LOTS.
- C. CONCRETE PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARTICLE 420 OF THE I.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," AND SUPPLEMENTAL SPECIFICATIONS, LATEST EDITIONS.
- D. ALL JOINTS, WITH THE EXCEPTION OF SAWED JOINTS, SHALL BE SEALED WITH CONCRETE JOINT SEALANT PER NOTE 6 BELOW.
- 5. CURING AND PROTECTION OF ALL CONCRETE SHALL BE IN CONFORMANCE WITH SECTION 1020.13 OF THE IDOT STANDARD SPECIFICATIONS, PREVIOUSLY REFERENCED.
- 6. CONCRETE JOINT SEALANT SHALL BE POURTHANE SL, SIKAFLEX 1C SL OR APPROVED EQUAL, MATCHING THE COLOR OF THE CONCRETE.
- 7. THE PAVING CONTRACTOR IS RESPONSIBLE FOR THE FINAL SUBGRADE PREPARATION, THE PAVEMENT BASE, BINDER, AND SURFACE, AND ALL FINAL CLEAN-UP AND RELATED WORK ASSOCIATED WITH THE PAVING OPERATIONS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CORING, TESTING, AND PAVEMENT EVALUATION AS REQUIRED BY THE MUNICIPALITY FOR ACCEPTANCE AT HIS OWN EXPENSE. THE CONTRACTOR SHALL INCLUDE THIS AS A SEPARATE BID ITEM OR ELSE IT WILL BE ASSUMED THAT THIS COST HAS BEEN FIGURED INTO THE UNIT PRICES FOR THE PAVING ITEMS. ALL TESTING RESULTS SHALL BE MADE AVAILABLE TO THE MUNICIPALITY FOR REVIEW.
- 9. IDOT APPROVED, RECYCLED CONCRETE CA-6, MAY BE SUBSTITUTED FOR CA-6 CRUSHED STONE AGGREGATE FOR PAVEMENT AND SIDEWALK SUBBASE MATERIALS.

# STANDARD UTILITY PROVISIONS

1. ALL UTILITY CONSTRUCTION WORK SHALL GOVERNED BY:

- "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN
- CONSTRUCTION IN ILLINOIS" LATEST EDITION. (STANDARD SPECIFICATIONS) • TITLE 35 ILLINOIS EPA REQUIREMENTS
- PART 890 ILLINOIS PLUMBING CODE REQUIREMENTS SANITARY DISTRICT REQUIREMENTS
- MUNICIPAL/LOCAL REQUIREMENTS ROADWAY AUTHORITIES REQUIREMENTS
- 2. ALL UTILITY TRENCHES UNDER AND WITHIN TWO FEET OF PAVEMENT, SIDEWALK, CURB AND GUTTER. ETC. SHALL BE BACKFILLED WITH CA-6 CRUSHED STONE (GRADE 8 OR 9), COMPACTED IN 8" LIFTS TO 95% OF MODIFIED PROCTOR, PER ASTM D-1557.
- 3. UTILITY CONNECTIONS WITHIN THE STREET RIGHT OF WAY SHALL BE ACCOMPLISHED BY SAW CUTTING AND REMOVING EXISTING PAVEMENT. BACKFILL AND RESTORATION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STREET JURISDICTIONAL AUTHORITY.
- 4. THE UNDERGROUND CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL REMOVE AND DISPOSE OF OFFSITE ANY EXCESS DIRT OR MATERIALS.
- 5. "BAND/SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OR DISSIMILAR MATERIALS.
- 6. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER MAIN AND ANY SEWERS WHEN THEY ARE PARALLEL. WHENEVER A SEWER CROSSES A WATER MAIN, A MINIMUM VERTICAL DISTANCE OF 18 INCHES MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE PIPES. AND THE SEWER JOINTS ARRANGED SO THEY ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHEN IT IS NECESSARY FOR A SEWER TO CROSS OVER THE TOP OF A WATER MAIN WITH 18" SEPARATION. OR THE SEWER CROSSES UNDER THE WATERMAIN WITH LESS THAN 18" VERTICAL SEPARATION, OR 10' HORIZONTAL SEPARATION IS NOT MAINTAINED, THEN THE FOLLOWING METHOD MUST ALSO BE CONSTRUCTED:
  - A. THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER MAIN PIPE FOR THE LENGTH OF THE INADEQUATE HORIZONTAL SEPARATION OR FOR A DISTANCE OF TEN (10) FEET EITHER SIDE OF A CROSSING AND SHALL BE PRESSURE-TESTED TO INSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- B. FOR A STORM SEWER CROSSING, THE RCP STORM SEWER(ASTM C-361) SHALL BE CONSTRUCTED WITH O-RING GASKETED JOINTS (C-443) FOR A DISTANCE OF TEN (10') FEET EITHER SIDE OF A CROSSING.
- 7. ALL CAST AND DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED IN A 8-MIL POLYETHYLENE TUBING. THE TUBING SHALL COMPLY WITH THE AMERICAN NATIONAL STANDARD FOR POLYETHYLENE ENCASEMENT FOR GRAY AND DUCTILE IRON PIPING ANSI/AWWA C105/72/A21.5 OR AS REVISED. INSTALLATION PROCEDURES SHALL BE THOSE AS RECOMMENDED BY THE CAST IRON PIPE RESEARCH ASSOCIATION.
- 8. ALL MANHOLES, CATCH BASINS, INLETS AND VALVE VAULTS SHALL BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE RING CONSTRUCTION WITH TONGUE AND GROOVE JOINTS IN CONFORMANCE WITH THE LATEST REVISION OF ASTM C-478. ALL STRUCTURE SECTIONS AND ADJUSTING RINGS SHALL BE SECURELY SEALED TO EACH OTHER AND TO CASTING USING RESILIENT FLEXIBLE NON-HARDENING PREFORMED BITUMINOUS MASTIC (REM-NEK OR APPROVED EQUAL) OR BUTYL RUBBER JOINT SEALER (EASY STICK OR APPROVED EQUAL). CONTRACTOR SHALL REMOVE EXCESS MASTIC INSIDE STRUCTURE AND BUTTER JOINTS WITH MORTAR. ALL STORM AND SANITARY STRUCTURES SHALL HAVE OFFSET CONES. EXCEPT WHERE HEIGHT RESTRICTIONS REQUIRE A REINFORCED CONCRETE FLAT TOP. VALVE VAULTS SHALL HAVE CONCENTRIC CONES. A MAXIMUM OF 2 PRECAST CONCRETE ADJUSTMENT RINGS LIMITED TO 8 INCHES TOTAL HEIGHT SHALL BE PERMITTED. MOLDED PLASTIC, REINFORCED, MANHOLE STEPS SHALL BE PROVIDED. CONTRACTOR SHALL ADJUST STRUCTURES TO FINISHED GRADE AS NEEDED.
- 10. SEE DETAIL SHEETS THIS SET FOR FURTHER INFORMATION REGARDING THE STORM, SANITARY AND WATERMAIN REQUIREMENTS, INCLUDING BUT NOT LIMITED TO BEDDING AND BACKFILL MATERIALS.

# STANDARD STORM SEWER PROVISIONS

- 1. STORM SEWER SHALL BE CONSTRUCTED OF ONE OR MORE OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
  - A. REINFORCED CONCRETE PIPE PER ASTM C-76, IDOT CLASS IV, IN ACCORDANCE WITH ASTM C-361, WITH FLEXIBLE O-RING GASKETED JOINTS, IN ACCORDANCE WITH ASTM C-443 (WATERMAIN QUALITY PIPE AND JOINTS).
  - B. POLYVINYLCHLORIDE PLASTIC GRAVITY SEWER PIPE (PVC) SDR-26 (ASTM D-3034 WITH GASKETED JOINTS PER ASTM D-3212)
  - C. DUCTILE IRON PIPE CLASS 52 (ANSI A21.51 WITH ANSI A21.11 JOINTS)
  - D. ADS HP-STORM HDPE HIGH PERFORMANCE PIPE, PER ASTM F-2881, WITH JOINTS PER ASTM D-3212, INSTALLED AND BACKFILLED PER MANUFACTURERS RECOMMENDATIONS. A MINIMUM OF 100% OF THE INSTALLED PIPE SHALL BE DEFLECTION TESTED PER THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.
- 2. STORM MANHOLES SHALL HAVE IN ADDITION TO THE GENERAL MANHOLE REQUIREMENTS:
  - A. ALL STORM STRUCTURE CASTINGS SHALL HAVE "DRAINS TO RIVER" AND "DUMP NO WASTE" CAST IN LID.
  - B. ALL STORM STRUCTURES SHALL HAVE OPEN GRATES.
  - C. STORM CATCH BASINS, INLETS AND MANHOLES, IN CURB LINES, SHALL HAVE E.J.I.W. 7210 CASTINGS WITH TYPE M1 GRATES, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
  - D. STORM CATCH BASINS, INLETS IN OPEN PAVED AREAS, AND ALL MANHOLES, SHALL HAVE NEENAH R-2504-D CASTINGS, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
  - E. STORM CATCH BASINS AND INLETS IN LANDSCAPED AREAS, SHALL HAVE NEENAH R-4340-B CASTINGS, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- 3. ALL ROOF DRAINS, FOOTING DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 4. ALL STORM SEWERS SHALL BE INSPECTED AND TESTED IN KEEPING WITH ALL GOVERNING AGENCY REQUIREMENTS

# STANDARD SANITARY SEWER PROVISIONS:

1. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.

- 2. ALL DOWNSPOUTS, FOOTING DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM OR TO GRADE.
- SANITARY SEWER SHALL BE CONSTRUCTED OF ONE OR MORE OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
- A. POLYVINYLCHLORIDE PLASTIC GRAVITY SEWER PIPE (PVC) SDR-26 (ASTM D-3034 WITH GASKETED JOINTS PER ASTM D-3212)
- B. DUCTILE IRON PIPE CLASS 52 (ANSI A21.51 WITH ANSI A21.11 JOINTS)
- C. ALL SANITARY PIPING SHALL BE INSTALLED ON CLASS "B" BEDDING
- 4. "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS OR SIZES.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
- A. CIRCULAR SAW-CUT OF THE SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
- B. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
- WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- D. INSTALL A NEW MANHOLE.
- 8. SANITARY MANHOLES SHALL HAVE IN ADDITION TO THE GENERAL MANHOLE REQUIREMENTS:
  - A. BASE AND BOTTOM SECTION SHALL BE MONOLITHICALLY CAST INCLUDING BENCHES, INVERTS AND FLOW LINES.
  - B. PIPE CONNECTION OPENINGS SHALL BE PRECAST WITH RESILIENT RUBBER WATERTIGHT PIPE SLEEVES CONFORMING TO ASTM C-923.
  - C. CHIMNEY SEAL OR APPROVED ALTERNATE AS REQUIRED BY MUNICIPALITY OR SANITARY DISTRICT.
  - D. ALL SANITARY MANHOLES SHALL BE TESTED PER ASTM C-969 OR ASTM C-1244.
  - E. SANITARY MANHOLES SHALL HAVE NEENAH R-1772 CASTINGS, WITH CONCEALED PICK HOLES, SELF-SEALING GASKET AND "SANITARY" CAST IN LID, OR APPROVED EQUAL.
- 9. ALL SEPTIC TANKS (IF ANY) BEING ABANDONED SHALL BE FILLED OR REMOVED. APPROVAL MUST BE OBTAINED FROM THE APPROPRIATE HEALTH DEPARTMENTS. ALL SEWER CONNECTIONS SHALL BE MADE UPSTREAM FROM THE TANK. CONTRACTORS SHALL OBTAIN ANY NECESSARY PERMITS FOR REMOVAL.
- 10. ALL SANITARY SEWERS SHALL BE TESTED PER THE "STANDARD SPECIFICATIONS" SECTION 31-1.12, IN KEEPING WITH ALL STATE AND MUNICIPALITY REQUIREMENTS. INFILTRATION SHALL NOT EXCEED 100 GALLONS/INCH DIAMETER/MILE/DAY. ALL CONSTRUCTION SHALL CONFORM TO "ILLINOIS RECOMMENDED STANDARDS FOR SEWER WORKS", LATEST EDITION, PUBLISHED BY THE ILLINOIS E.P.A. EXCEPT FOR CONFLICTS WITH THE MUNICIPALITY REQUIREMENTS, WHERE THE MUNICIPALITY REQUIREMENTS SHALL TAKE PRECEDENCE.
- 11. ALL SANITARY SEWER MANHOLES SHALL BE INSPECTED AND TESTED PER THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, SECTION 32.12, IN CONFORMANCE WITH ASTM C-969 OR ASTM C-1244.
- 12. ALL FLEXIBLE (PVC) PIPE SHALL BE DEFLECTION TESTED PER THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
- 13. ALL SANITARY SEWERS SHALL BE TELEVISED AND TESTED AS REQUIRED BY THE MUNICIPALITY. TWO (2) COPIES OF THE VIDEO(S) AND REPORT(S) SHALL BE SUBMITTED TO THE ENGINEER.

# STANDARD WATER MAIN PROVISIONS

- 1. WATER MAIN AND SERVICES SHALL BE CONSTRUCTED OF ONE OR MORE OF THE FOLLOWING MATERIALS AS SPECIFIED ON THE PLANS:
  - A. DUCTILE IRON PIPE CLASS 52 PER ANSI A 21.51 (AWWA C151), 150 PSI, CEMENT LINED PER ANSI A 21.4 (AWWA C104), WITH "PUSH ON" JOINTS.
  - B. TYPE K, OR GREATER, COPPER WATER TUBE, CONFORMING TO ASTM B88 AND ASTM B251.
  - C. POLYVINYLCHLORIDE PLASTIC PRESSURE PIPE, PER AWWA C-900, CLASS 150, WITH A DR OF 18, BLUE IN COLOR AND CLEARLY LABELED AS "WATER", BEAR THE NSF SEAL, WITH RUBBER COMPRESSION RING SEALS PER ASTM D-1869. PIPE INSTALLATION SHALL ALSO INCLUDE A 14-GAUGE UF TRACER WIRE WITH JOINT SEAL AND BLUE INSULATION.
- FITTINGS TO BE FURNISHED AND INSTALLED AS NEEDED. FITTINGS FOR PIPE LARGER THAN 3 INCH 2. DIAMETER SHALL SHALL BE MECHANICAL TYPE, IN ACCORDANCE WITH ANSI A21.10-03/AWWA C110 STANDARD AND HAVE A 250 PSI PRESSURE RATING. COMPACT FITTINGS IN ACCORDANCE WITH ANSI A21.53-00/AWWA C153, MAY ALSO BE USED. CAST AND DUCTILE IRON FITTINGS SHALL BE LINED, PER THE DUCTILE IRON PIPE SPECIFICATION ABOVE.
- 3. ALL JOINTS AT BENDS, TEES, OFFSETS, REDUCERS, ETC. SHALL HAVE MEGA-LUG 1100 MECHANICAL JOINT RESTRAINTS. THE LENGTH OF RUN AND BRANCH PIPING RESTRAINT SHALL BE IN ACCORDANCE WITH MANUFACTURERS GUIDELINES AND APPROVED PRIOR TO INSTALLATION.
- 4. ALL RUBBER GASKETS SHALL BE VULCANIZED NATURAL OR VULCANIZED SYNTHETIC RUBBER, NONPOROUS, FREE OF FOREIGN MATERIALS AND VISIBLE DEFECTS. NO RECYCLED RUBBER SHALL BE USED. THE RUBBER GASKETS SHALL BE IN ACCORDANCE WITH ANSI A21.11/AWWA C111 STANDARD.
- 5. THE PIPE JOINT SHALL BE SUCH THAT ELECTRICAL CURRENT WILL PASS FROM ONE PIPE TO THE OTHER. THIS MAY BE ACCOMPLISHED IN A MANNER WHICH IS STANDARD FOR THE TYPE OF JOINT SUPPLIED BY A PARTICULAR MANUFACTURER. LEAD TIP GASKET SHOULD NOT BE USED.
- 6. THE MINIMUM COVER FOR ALL WATER MAIN AND WATER SERVICE PIPE IS FIVE AND ONE-HALF FEET (5'-6") FROM FINISHED GRADE TO TOP OF PIPE.
- 7. ALL VALVE BASINS ARE TO BE A MINIMUM OF 5 FEET IN DIAMETER. "WATER" SHALL BE CAST INTO ALL LIDS.
- VALVES SHALL BE MUELLER, OR APPROVED EQUAL, RESILIENT WEDGE GATE VALVES AND BE FURNISHED WITH CAST IRON BODY, BRONZE MOUNTED, BRONZE STEMMED, DOUBLE DISC PATTERN, WITH NON-RISING STEM AND BE DESIGNED FOR 300 POUNDS WORKING PRESSURE. ALL VALVES SHALL OPEN LEFT.
- 9. HYDRANTS SHALL BE IN ACCORDANCE WITH THE MUNICIPALITIES STANDARD DETAIL.
- 10. ALL WATER MAINS SHALL BE INSPECTED, TESTED AND DISINFECTED PER ALL GOVERNING AGENCY REQUIREMENTS.
- 11. ANY WELLS FOUND SHALL BE CAPPED/ABANDONED PER COUNTY HEALTH DEPARTMENT REQUIREMENTS.



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Α.	REFERENCED	SPECIFICATIONS

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   \* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE
- ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- \* STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
- \* VILLAGE OF <u>SKOKE</u> MUNICIPAL CODE; \* THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED
- MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL; \* IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

- 1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO <u>WMOJOBSTART@MWRD.ORG</u>).
- 2. THE VILLAGE OF <u>SKOKE</u> ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
- 3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.
- C. GENERAL NOTES
- 1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS \_\_\_\_\_\_\_ FT.
- 2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
- 3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
- 4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
- 5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
- 6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- 7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
- 8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
- 9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
- 10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

- I. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- 2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- 3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL
- FROM THE MUNICIPALITY OR MWRD. 4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- 5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- 6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

VITRIFIED CLAY PIPE	AST
REINFORCED CONCRETE SEWER PIPE	AST
CAST IRON SOIL PIPE	AST
DUCTILE IRON PIPE	ANS
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	AST AST
HIGH DENSITY POLYETHYLENE (HDPE)	AST AST
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	AST AW AW
THE FOLLOWING MATERIALS ARE ALLOWED ON APPROVAL PRIOR TO PERMIT ISSUANCE. A SPE THE PIPE MATERIAL BELOW IS USED FOR SEWE	ECIAL

PIPE MATERIAL

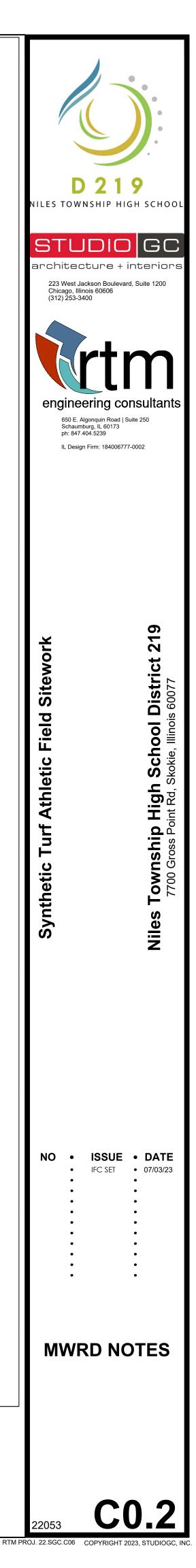
<u>PIPE MATERIAL</u> POLYPROPYLENE (PP) PIPE	<u>PIPE SPE(</u>
12-INCH TO 24-INCH DOUBLE WALL	AST
30-INCH TO 60-INCH TRIPLE WALL	AST

- 8. ALL SANITARY SEWER CONSTRUCTION (AND STO REQUIRES STONE BEDDING WITH STONE ¼ "TO TO ¼ THE OUTSIDE DIAMETER OF THE SEWER P THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA ABOVE THE TOP OF THE PIPE WHEN USING PVC.
- 9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE OF DISSIMILAR PIPE MATERIALS.
- 10. ALL MANHOLES SHALL BE PROVIDED WITH BOLT CONSTRUCTED WITH A CONCEALED PICKHOLE A CAST INTO THE LID.
- WHEN CONNECTING TO AN EXISTING SEWER MA AN EXISTING MANHOLE, ONE OF THE FOLLOWIN a) A CIRCULAR SAW-CUT OF SEWER MAIN BY AND PROPER INSTALLATION OF HUBWYE SA b) REMOVE AN ENTIRE SECTION OF PIPE (BRE
  - A WYE OR TEE BRANCH SECTION OF PIPE (BR
- c) WITH PIPE CUTTER, NEATLY AND ACCURAT OF PROPER FITTING, USING "BAND SEAL" C
- 12. WHENEVER A SANITARY/COMBINED SEWER CRO DISTANCE FROM THE TOP OF THE SEWER TO THE FURTHERMORE, A MINIMUM HORIZONTAL DISTA SEWERS AND WATERMAINS SHALL BE MAINTAIN TRENCH, KEEPING A MINIMUM 18" VERTICAL SE TRENCH WITH THE WATERMAIN LOCATED AT THE EARTH, KEEPING A MINIMUM 18" VERTICAL SEPA DISTANCES DESCRIBED CANNOT BE MAINTAINED THE SEWER SHALL BE CONSTRUCTED TO WATER WATER MAIN QUALITY CARRIER PIPE WITH THE
- 13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABAND GRANULAR MATERIAL OR REMOVED.
- 14. ALL SANITARY MANHOLES, (AND STORM MANHO MINIMUM INSIDE DIAMETER OF 48 INCHES, AND CONCRETE.
- 15. ALL SANITARY MANHOLES, (AND STORM MANHO PRECAST "RUBBER BOOTS" THAT CONFORM TO SECTIONS SHALL CONSIST OF MODIFIED GROON
- 16. ALL ABANDONED SANITARY SEWERS SHALL BE I NON-SHRINK CONCRETE OR MORTAR PLUG.
- 17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PR ASSOCIATED WITH VOLUME CONTROL FACILITIE PIPES ARE NOT ALLOWED TO BE CONNECTED TO SEWERS, OR STORM SEWERS TRIBUTARY TO CO CONSTRUCTION OF NEW FACILITIES OF THIS TY PERFORATED PIPES ENCOUNTERED WITHIN THE SHALL NOT BE CONNECTED TO COMBINED SEWE TO COMBINED SEWERS.
- 18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL REQUIRED BACKFLOW PREVENTERS SHALL BE IN OWNER TO ENSURE PROPER OPERATION, AND A ENSURE FUNCTIONALITY. IN THE EVENT OF A SE TRIBUTARY TO COMBINED SEWERS, THE PERMIT SEWAGE TAKES PLACE WITHIN 48 HOURS OF TH

PIPE SPECIFICATIONS	JOINT SPECIFICATIONS	E. EROSION AND SEDIMENT CONTROL
ASTM C-700 ASTM C-76	ASTM C-425 ASTM C-443	1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE
ASTM C-76 ASTM A-74	ASTM C-443 ASTM C-564	APPROVED EROSION AND SEDIMENT CONTROL PLAN. 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC
ANSI A21.51	ANSI A21.11	DISTURBANCE OF THE SITE.
ASTM D-3034	ASTM D-3212	3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
ASTM F-679 ASTM D-3350	ASTM D-3212 ASTM D-3261,F-2620 (HEAT FUSION)	4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
ASTM D-3350 ASTM D-3035 ASTM D-2241	ASTM D-3201,F-2020 (HEAT FOSION) ASTM D-3212,F-477 (GASKETED) ASTM D-3139	<ol> <li>INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:</li> <li>a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.</li> </ol>
AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139	b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
	UBJECT TO DISTRICT REVIEW AND L BE ADDED TO THE PERMIT WHEN A CONNECTION IS MADE.	6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
PIPE SPECIFICATIONS	JOINT SPECIFICATIONS	7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
ASTM F-2736	D-3212, F-477	8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS
ASTM F-2764	D3212, F-477	URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
		9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
E ¼ ″ TO 1″ IN SIZE, WITH SEWER PIPE, BUT NOT LES	TRUCTION IN COMBINED SEWER AREAS), MINIMUM BEDDING THICKNESS EQUAL STHAN FOUR (4) INCHES NOR MORE 13 AND SHALL BE EXTENDED AT LEAST 12"	10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
ING PVC.	ONNECTION OF SEWER PIPES	11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
ITH BOLTED WATERTIGHT	COVERS. SANITARY LIDS SHALL BE	12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
	GASKET WITH THE WORD "SANITARY"	13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
OLLOWING METHODS SHA	HER THAN AN EXISTING WYE, TEE, OR ALL BE USED: SHEWER-TAP″ MACHINE OR SIMILAR)	14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
JBWYE SADDLE OR HUB-ÌE		15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
	IRED LENGTH OF PIPE FOR INSERTION INGS TO HOLD IT FIRMLY IN PLACE.	16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
ER TO THE BOTTOM OF TH AL DISTANCE OF 10 FEET IAINTAINED UNLESS: THE TICAL SEPARATION; OR TH	ATERMAIN, THE MINIMUM VERTICAL IE WATERMAIN SHALL BE 18 INCHES. BETWEEN SANITARY/COMBINED SEWER IS LAID IN A SEPARATE IE SEWER IS LAID IN THE SAME E ON A BENCH OF UNDISTURBED	17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
CAL SEPARATION. IF EITH INTAINED, OR THE SEWER	ER THE VERTICAL OR HORIZONTAL CROSSES ABOVE THE WATER MAIN, DS OR IT SHALL BE ENCASED WITH A	18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
BE ABANDONED. ABANDON	IED TANKS SHALL BE FILLED WITH	19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS
	D SEWER AREAS), SHALL HAVE A IN PLACE OR PRE-CAST REINFORCED	THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
ORM TO ASTM C-923 FOR /	D SEWER AREAS), SHALL HAVE ALL PIPE CONNECTIONS. PRECAST RUBBER GASKET TYPE JOINTS.	20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
IALL BE PLUGGED AT BOTH LUG.	I ENDS WITH AT LEAST 2 FEET LONG	21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
FACILITIES, DRAIN TILES/F	ECT BUILDINGS, OR PERFORATED PIPES FIELD TILES/UNDERDRAINS/PERFORATED	22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
RY TO COMBINED SEWERS THIS TYPE IS PROHIBITE THIN THE PROJECT AREA S	TO COMBINED SEWERS, SANITARY IN COMBINED SEWER AREAS. D; AND ALL EXISTING DRAIN TILES AND HALL BE PLUGGED OR REMOVED, AND WERS, OR STORM SEWERS TRIBUTARY	23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.
ALL BE INSPECTED AND EX N, AND ANY NECESSARY M T OF A SEWER SURCHARGE	INS TRIBUTARY TO COMBINED SEWERS. ERCISED ANNUALLY BY THE PROPERTY AINTENANCES SHALL BE PERFORMED TO E INTO AN OPEN DETENTION BASIN RE THAT CLEAN UP AND WASH OUT OF	

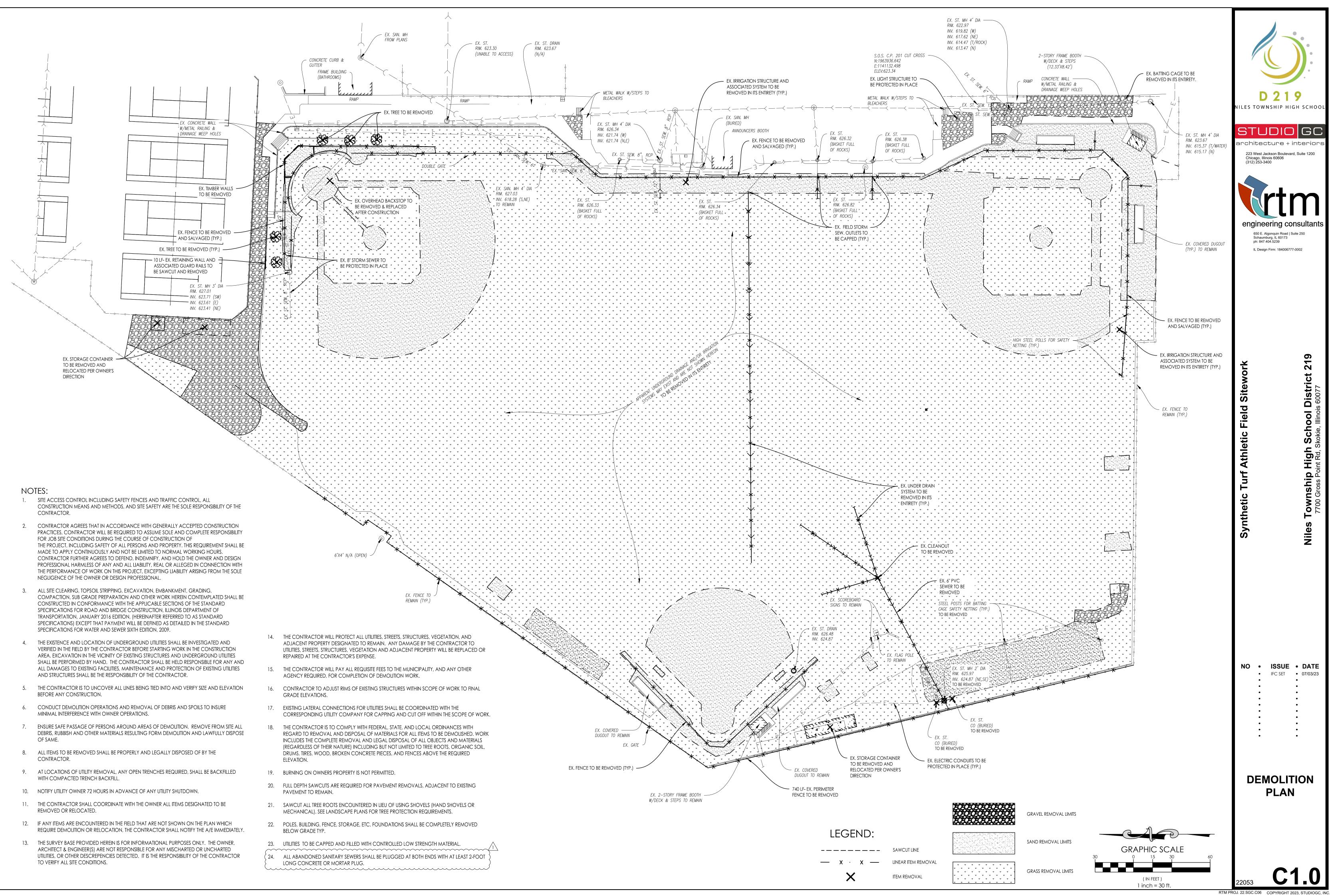
# TECHNICAL GUIDANCE MANUAL

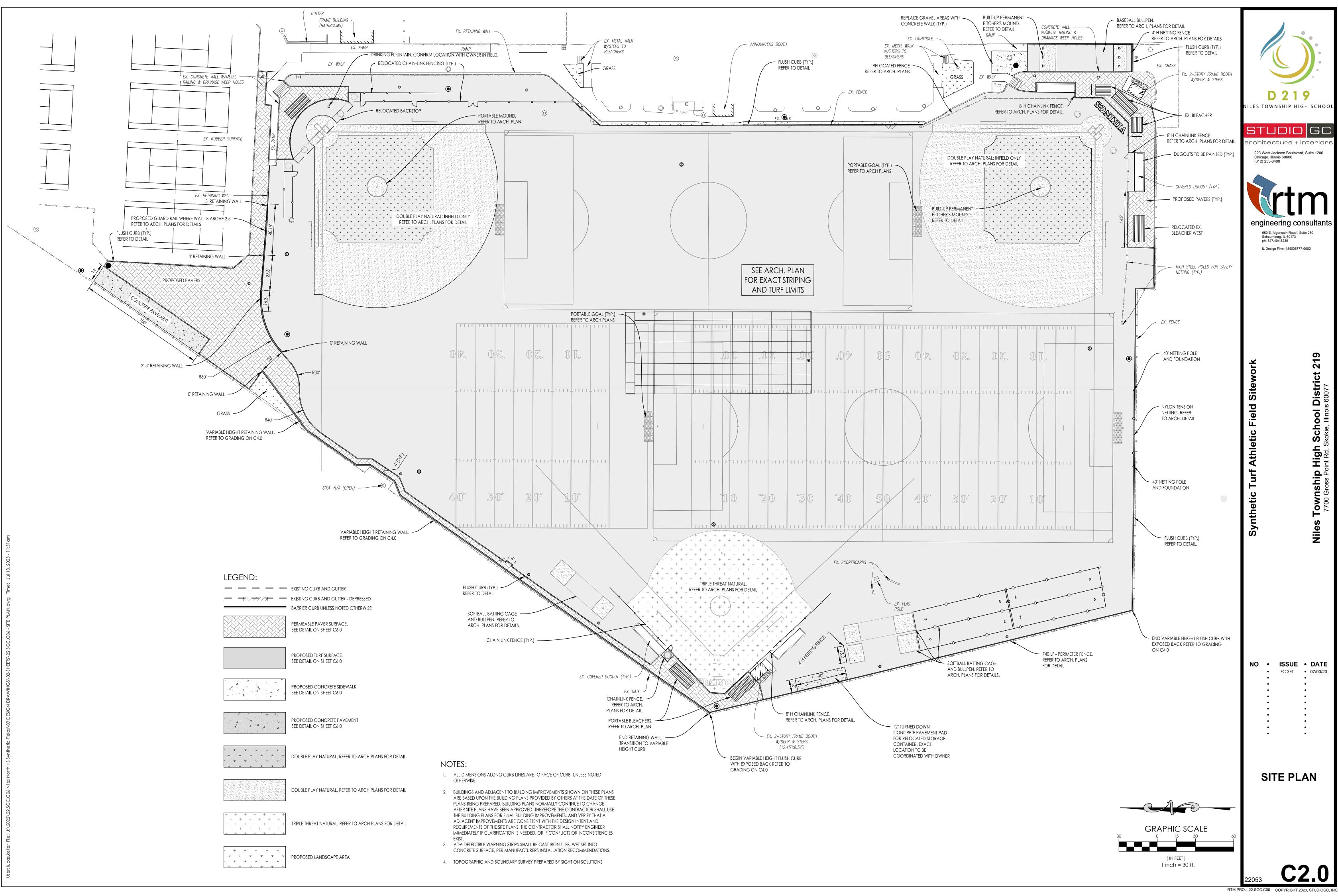
MWRD GENERAL NOTES

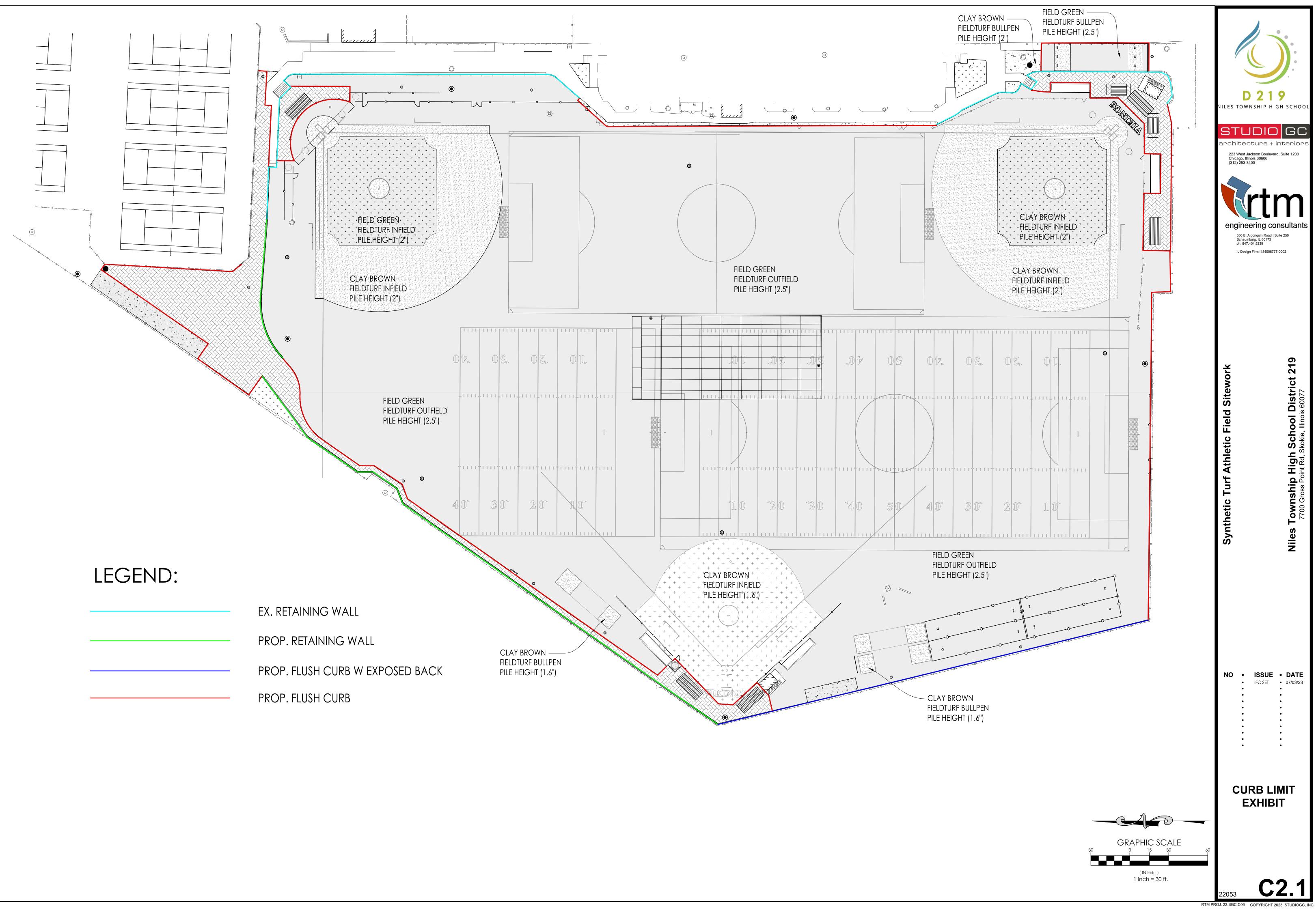


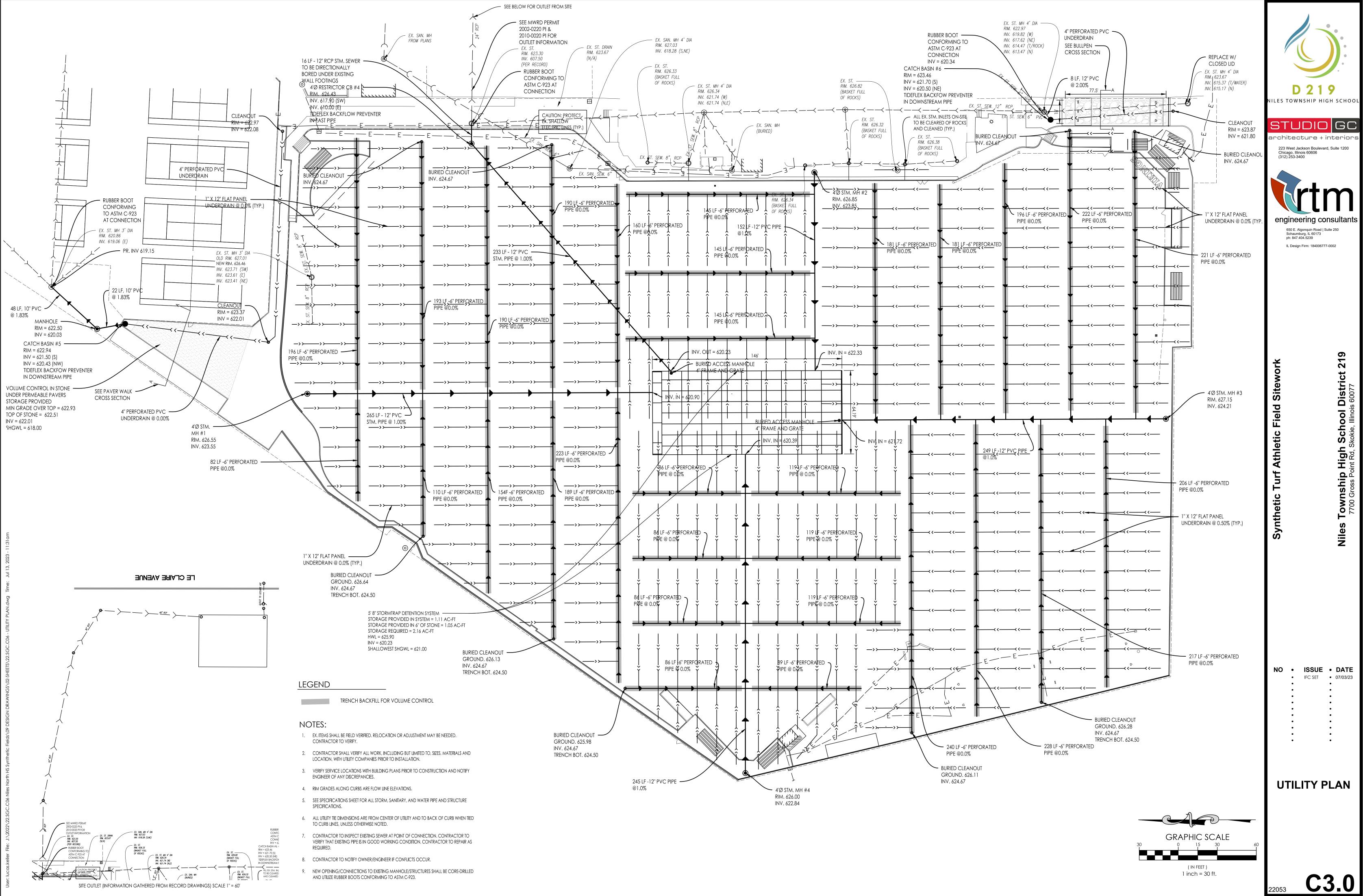
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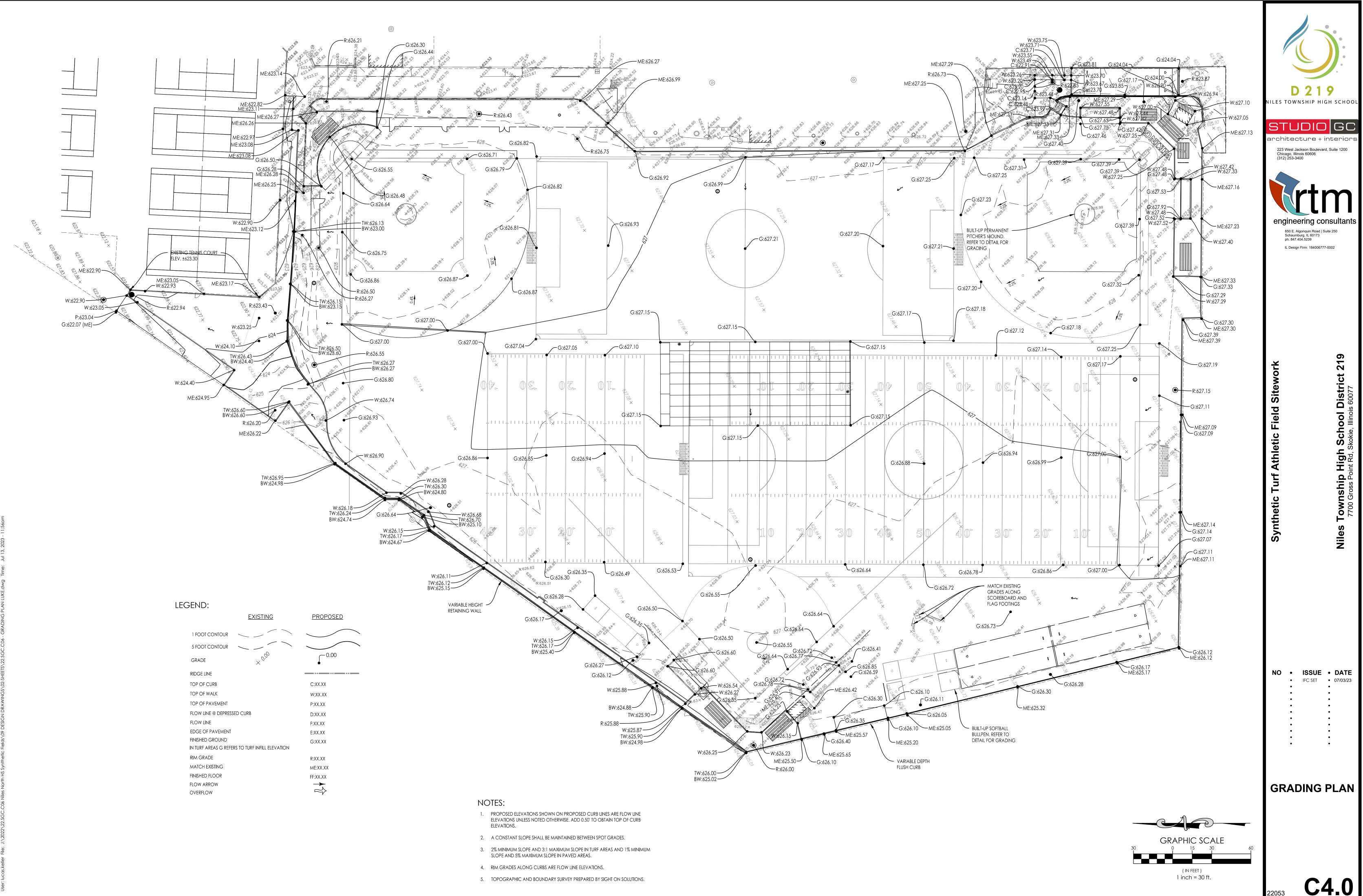






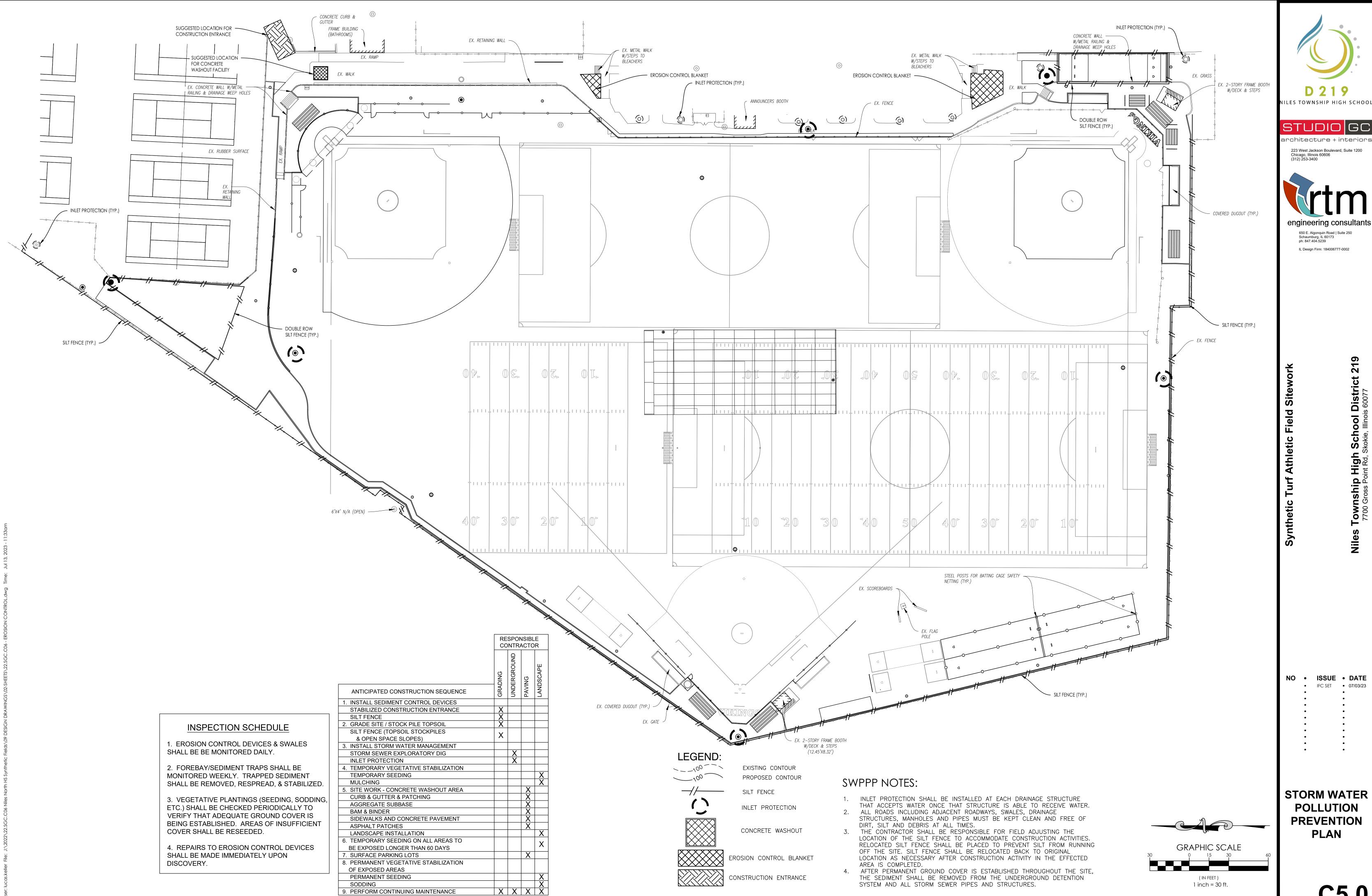


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# Owner

Project Manager(s) or Site Supervisor(s):

This SWPPP Was Prepared By:

250 E. ALGONQUIN RD, SUITE 250

Emergency 24 hour contact:

SCOTT A. DIGILIO, PE

RTM ENGINEERS, INC.

312.216.0538

equipment.

Construction Schedule

3. Mass Gradina

Soil types

Drainage Patterns:

SCHAUMBURG, IL 60173

Stormwater Manager and SWPPP Contact(s):

1.3 NATURE AND SEQUENCE OF CONSTRUCTION ACTIVITY

What is the function of the construction activity? New Building

2. Clear & grub existing and demolish existing sitework as required

6. Fine grade and permanently stabilize all disturbed areas

Estimated Project Start Date: MARCH 2023

Estimated Project Completion Date: AUGUST 2023

• The existing vegetation in the is lawn grass

Percentage impervious area before construction:

Percentage impervious area after construction:

1.7 SITE FEATURES AND SENSITIVE AREAS TO BE PROTECTED

The following are estimates of the construction site:

Construction Site Area to be disturbed:

SCS Runoff coefficient before construction:

SCS Runoff coefficient after construction:

Description of receiving waters:

1.8 POTENTIAL SOURCES OF POLLUTION

Vehicle tracking

Potentials sources of sediment to stormwater runoff:

Clearing and grubbing operations

Topsoil striping and stockpiling

Landscaping operations

Hazardous waste storage

aggregates and trash

controls as described in Section 2, Part 2.4.

Responsible Staff: General Contractor

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

Sanitary facilities

Grading and site excavation operations

• Vehicle and equipment fueling activities

• Vehicle and equipment maintenance

Potential pollutants and sources, other than sediment, to stormwater runoff:

2.1 MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL:

Material Storage including general building materials, solvents, adhesives, paving materials, paints,

BMP Description: Topsoil stripped from the immediate construction area will be stockpiled. The stockpiles will be

flows or pavement. The slopes of the stockpile will be roughened by equipment tracking and will not exceed 2:1

• Installation Schedule: Topsoil stockpiles will be established during grading activities. The silt fence

and temporary erosion controls will be installed immediately after the stockpile has been established.

to prevent erosion. A silt fence will be installed around the perimeter of each stockpile, in accordance with the

in areas that will not interfere with construction phases and at least 15 feet away from areas of concentrated

silt fence design specifications in Section 2, Part 2.7. Stockpiles will also be temporarily stabilized with erosion

1.5 CONSTRUCTION SITE ESTIMATES

1.6 RECEIVING WATERS

NONE

4. Construction new building and install new utility structures and piping

1.4 SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

7. Remove all sediment controls once disturbance has been permanently stabilized

• The site drains northerly and westerly to the subdivision detention pond.

1. Install perimeter sediment control silt fence

5. Install new sidewalks and paving

Operator(s): TBD

Project/Site Name:

Latitude/Longitude

City: SKOKIE

State: L

Zip Code:

Project Street/Location:

County or Similar Subdivision: Will County

Latitude: °" N (degrees, minutes, seconds)

Is the project located in Indian country? No

Is this project considered a federal facility? No

Longitude: "W (degrees, minutes, seconds)

Method for determining latitude/longitude: Google Earth

NPDES project or permit tracking number: To be Determined

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING 1.1 PROJECT/SITE INFORMATION

1.2 CONTACT INFORMATION/RESPONSIBLE PARTIES

applied for coverage under the appropriate NPDES construction general permit.)

The project involves the construction of a educational building on an un-developed lot in a commercial

The improvements were designed to connect the existing storm sewer system, per original design conditions.

subdivision. The proposed construction also includes a new sidewalk, utilities, parking lot pavement, playground

Geotechnical investigations have found the sub-surface soils to be predominately clay fill & lean

(This is the unique identifying number assigned to your project by your permitting authority after you have

## BMP Description: The contractor shall determine their means for construction phases. An emphasis shall be placed upon minimizing disturbed areas and provided vegetative cover immediately. To minimize potential erosion, only areas necessary to construct the construction exits, access road for the staging area and the sedimentation basin

2.2 PHASE CONSTRUCTION ACTIVITY:

2.4 STABILIZE SOILS:

be established.

Temporary Stabilization (Growing Season)

emporary Stabilization (Winter Months)

pounds (2-3 bales) per 1,000 square feet.

Permanent Stabilization

an area.

Dust Control

stabilization is reached

necessary to prevent runoff and ponding.

Section 3, Part 3.4.

2.5 PROTECT SLOPES:

Geotextile Erosion Control Blankets

grade.

Design Specifications

soil contact.

2.6 PROTECT STORM DRAIN INLETS:

been permanently stabilized.

structure

Catch Basin Inserts

Responsible Staff: General Contractor

dryness of the soil warrants it.

• Responsible Staff: General Contractor

will be repaired or replaced.

• Responsible Staff: General Contractor

3. Install per manufacturer's recommendations.

or replaced per the manufacturer's recommendations.

Responsible Staff: General Contractor

2. Lay blankets loosely and staple to maintain direct contact with the soil. Do not stretch.

construction but no later than 14 days after construction.

• Responsible Staff: General Contractor

2.3 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT:

will be reseeded, fertilized and mulched immediately

and new mulch will be applied to the damaged area.

completed in accordance with the final stabilization procedures in Section 7.

Responsible Staff: General Contractor

areas, where hydromulching is inaccessible, straw mulch will be applied by hand with an application rate of 90-100

Responsible Staff: General Contractor

BMP Description: The site does not currently accept any off-site concentrated flow.

• Installation Schedule: See Section 1.3 for the timeline of construction activity.

will be disturbed initially. These areas will be cleared, grubbed, and graded and the construction exits, access road and sedimentation basin will be installed. These areas will be stabilized with erosion controls immediately after

BMP Description: Temporary vegetative cover will be established using hydroseeding for areas of exposed soil (including stockpiles) within 1 working day of temporary cessation of earth disturbing activities and shall be complete

as soon as possible but no more than 14 days from the in initiation of the stabilization of work in an area. Hydroseeding will consist of wood fibers, seed (Smooth Brome), fertilizer and stabilizing emulsion and applied at a rate of 8 pounds per acre. Seeding will be conducted during periods of the year when vegetation is more likely to

 Installation Schedule: Temporary stabilization measures will be applied to portions of the site within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in initiation of the stabilization of work in an area.

 Maintenance and Inspection: Stabilized areas will be inspected weekly and after storm events until a dense cover of vegetation has become established. If failure is noticed at the seeded area, the area

BMP Description: Hydromulching will provide immediate protection to exposed soils within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in initiation of the stabilization of work in an area and over the winter months. Straw mulch and wood fiber will be mixed with a tackifier (amount specified per manufacturer's instructions) and applied uniformly by machine with an application rate of 90-100 pounds (2-3 bales) per 1,000 square feet or 2 tons (100-200 bales) per acre. If the tackifier does not appear effective in anchoring the mulch to the disturbed soil, crimping equipment will be used to provide additional binding to the soil. The mulch will cover 75 to 90 percent of the ground surface. In

• Installation Schedule: Winter stabilization will occur between November 15th and March 15th.

 Maintenance and Inspection: Mulched areas will be inspected weekly and after storm events to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, the surface will be repaired,

BMP Description: Permanent stabilization will be done within 1 working day of temporary cessation of earth disturbing activities reaching final design grades and shall be complete as soon as possible but no more than 14 days from the initiation of the stabilization of work in an area are achieved but no later than 14 days after construction ceases. Native species of plants will be used to establish vegetative cover on exposed soils. Permanent stabilization will be

 Installation Schedule: Portions of the site where construction activities have permanently ceased will be stabilized, within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in initiation of the stabilization of work in

 Maintenance and Inspection: All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final

BMP Description: Dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as

• Installation Schedule: Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than three times a day during the months of May-September and once per day during the months of October-April or whenever the

• Maintenance and Inspection: At least one mobile unit will be available at all times to distribute potable water to control dust on the project area. Each mobile unit will be equipped with a positive shutoff valve to prevent over watering of the disturbed area. For vehicle and equipment maintenance practices, see

BMP Description: Geotextile erosion control blankets will be used to provide stabilization for the slopes greater than 4:1. The blanket will cover the entire area of the graded slope. The side slopes will be seeded and mulched before the blanket is applied. The blanket will be installed by digging a small trench on the upside of the slope, 12 inches wide by 6 inches deep, and stapling the leading edge of the blanket in the trench. The blanket will be rolled down the slope slowly to maintain soil contact and stapled in 12-inch intervals. If the blanket cannot cover the entire slope, the blankets will be overlapped (minimum of 2 inches) and stapled at the overlapped edge. The erosion control blanket will always be installed according to the manufacturer's instructions and specifications.

• Installation Schedule: The erosion control blankets will be installed once the slopes have reached final Maintenance and Inspection: The erosion control blanket will be inspected weekly and immediately

after storm events to determine if cracks, tears, or breaches have formed in the fabric; if so, the blanket will be repaired or replaced immediately. Good contact with the soil must be maintained and erosion should not occur under the blanket. Any areas where the blanket is not in close contact with the ground

1. Slope surface will be free of rocks, clods, sticks and grass. The blankets will have good

BMP Description: Immediately following installation of the proposed storm sewer structures, Catch-All catch basin inserts shall be placed below the grates. These catch basin inserts shall be removed once the construction site has

Installation Schedule: Catch basin inserts shall be installed immediately upon installations of storm

• Maintenance and Inspection: The catch basin inserts will be inspected weekly and immediately after storm events. If the basin insert becomes clogged with sediment, the insert will be removed and cleaned 2.7 ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS:

# Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around any topsoil stockpile. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced a maximum of 5 feet apart and driven securely into the ground; a minimum of 18 deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent stormwater and sediment from discharging underneath the silt fence.

• Installation Schedule: The silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established. Maintenance and Inspection: The trap will be inspected weekly and after storm events. The trap will be checked for signs of erosion, seepage, and structural damage. The outlet and trash rack will be checked for any damage or obstructions and any damage present will be repaired and obstructions removed. Sediment will be removed and the trap restored to its original dimensions when the sediment has accumulated to one-half the design depth of the trap. The removed sediments will be hauled off-site for disposal at approved Landfill.

2.9 ESTABLISH STABILIZED CONSTRUCTION EXITS:

Responsible Staff: General Contractor

# Stabilized Construction Exit

BMP Description: Anti-tracking pads consisting of stone over geotextile fabric will be installed at the entrance to the main Road, as indentified on plan set, to prevent the off-site transport of sediment by construction vehicles.

- Installation Schedule: The stabilized exit will be installed before construction begins on the site. The stone will remain in place until the subgrade of pavement is installed at the site. The anti-tracking pad will be placed on the pavement and will remain until all areas of the site have been stabilized.
- Maintenance and Inspection: The exits will be inspected weekly and after storm events or heavy use. The exits will be maintained in a condition that will prevent tracking or flowing of sediment onto adjacent roads. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto the Roads will be swept up immediately and hauled off-site for disposal at an approved Landfill. Sediment will be swept from the anti-tracking pad at least weekly, or more often if necessary. If excess sediment has clogged the pad, the exit will be top dressed with new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road pavement as a result of construction activities on roadways immediately adjacent to the project site will be
- repaired immediately. The stone anti-tracking pad will be removed before the subgrade of pavement is applied to the parking lot. The removed stone and sediment from the pad will be hauled off-site and disposed of at an approved Landfill
- Responsible Staff: General Contractor
- 2.10 ADDITIONAL BMPS:

Street Sweeping

BMP Description: Street sweeping and vacuuming shall be performed on adjacent Roads using a regenerative air sweeper to remove sediments and other contaminants directly from paved areas.

- Installation Schedule: Street sweeping will occur weekly and before forecasted storm events on the adjacent Road(s).
- Maintenance and Inspection: All materials collected during sweeping will be disposed of at an off-site location by the subcontractor.
- Responsible Staff: General Contractor
- SECTION 3: GOOD HOUSEKEEPING BMPS 3.1 GOOD HOUSEKEEPING BMPS
- Material Handling and Waste Management:

# Waste Materials

BMP Description: All waste materials will be collected and disposed of into two metal trash dumpsters in the materials storage area. Dumpsters will have a secure watertight lid, be placed away from stormwater conveyances and drains, and meet all federal, state, and municipal regulations. Only trash and construction debris from the site will be deposited in the dumpster. No construction materials will be buried on-site. All personnel will be instructed, during tailgate training sessions, regarding the correct disposal of trash and construction debris. Notices that state these practices will be posted in the office trailer and the individual who manages day-today site operations will be responsible for seeing that these practices are followed.

- Installation Schedule: Trash dumpsters will be installed once the materials storage area has been established.
- Maintenance and Inspection: The dumpsters will be inspected weekly and immediately after storm events. The dumpster will be emptied weekly and taken to approved Landfill. If trash and construction debris are exceeding the dumpster's capacity, the dumpsters will be emptied more frequently.
- Responsible Staff: General Contractor
- Hazardous Waste Materials

BMP Description: All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers, within the hazardous materials storage area. Hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment will be provided for all waste materials in the hazardous materials storage area and will consist of commercially available spill pallets. Additionally, all hazardous waste materials will be disposed of in accordance with federal, state, and municipal regulations. Hazardous waste materials will not be disposed of into the on-site dumpsters. All personnel will be instructed, during tailgate training sessions, regarding proper procedures for hazardous waste disposal. Notices that state these procedures will be posted in the office trailer and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.

- Installation Schedule: Shipping containers used to store hazardous waste materials will be installed once the site materials storage area has been installed.
- Maintenance and Inspection: The hazardous waste material storage areas will be inspected weekly and after storm events. The storage areas will be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer.
- Responsible Staff: General Contractor

# Sanitary Waste

BMP Description: Temporary sanitary facilities (portable toilets) will be provided at the site throughout the construction phase. The toilets will be in the staging area. The portable toilets will be located away from a concentrated flow paths and traffic flow and will have collection pans underneath as secondary containment.

- Installation Schedule: The portable toilets will be brought to the site once the staging area has been established.
- Maintenance and Inspection: All sanitary waste will be collected from the portable facilities a minimum of three times per week by a qualified sub-contractor. The portable toilets will be inspected weekly for evidence of leaking holding tanks. Toilets with leaking holding tanks will be removed from the sife and replaced with new portable toilets
- Responsible Staff: General Contractor
- 3.2 ESTABLISH PROPER BUILDING MATERIAL STAGING AREAS:
- Material Storage Area

BMP Description: Construction equipment and maintenance materials will be stored at the combined staging area and materials storage areas. Orange construction fence will be installed around the perimeter to designate the staging and materials storage area. A watertight shipping container will be used to store hand tools, small parts, and other construction materials.

Nonhazardous building materials such as packaging material (wood, plastic and glass) and construction scrap material (brick, wood, steel, metal scraps and pipe cuttings) will be stored in a separate covered storage facility adjacent to the shipping container. All hazardous-waste materials such as oil filters, petroleum products, paint and equipment maintenance fluids will be stored in structurally sound and sealed containers under cover within the hazardous materials storage area. Very large items, such as framing materials and stockpiled lumber, will be stored in the open in the materials storage area. Such materials will be elevated on wood blocks to minimize contact with runoff

- Installation Schedule: The materials storage area will be installed after grading and before any infrastructure is constructed on site.
- Maintenance and Inspection: The storage area will be inspected weekly and after storm events. The storage area will be kept clean, well organized and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers and liners will be repaired or replaced as needed to maintain proper functions.
- Responsible Staff: General Contractor

- 3.3 DESIGNATE WASHOUT AREAS:
- Concrete Washout

- Installation Schedule: The concrete washout area will be constructed before co
- Maintenance and Inspection: Inspect equipment/vehicle storage areas and fue storm events. Vehicles and equipment will be inspected on each day of use. Lec immediately, or the problem vehicle(s) or equipment will be removed from the p supply of spill-cleanup materials on-site and immediately clean up spills and disp
- Responsible Staff: General Contractor

- 3.6 SPILL PREVENTION AND CONTROL PLAN:
- i. Employee Training: All employees will be trained via biweekly tailgate session
- ii. Vehicle Maintenance: Vehicles and equipment will be maintained off-site. including subcontractor vehicles will be checked for leaking oil and fluids. Ve be allowed on-site. Drip pans will be placed under all vehicles and equipmen
- iii. Hazardous Material Storage: Hazardous materials will be stored in accordance federal and municipal regulations.
- iv. Spill Kits: Spill kits will be within the materials storage area and concrete washe v. Spills: All spills will be cleaned up immediately upon discovery. Spent absorbe hauled off-site immediately after the spill is cleaned up for disposal at an app
- enough to discharge to surface water will be reported to the National Respc vi. Material safety data sheets, a material inventory, and emergency contact in at the on-site project trailer.
- Installation Schedule: The spill prevention and control procedures will be implem begins on-site.
- Maintenance and Inspection: All personnel will be instructed, during tailgate tra correct procedures for spill prevention and control. Notices that state these prac office trailer, and the individual who manages day-to-day site operations will be these procedures are followed.
- Responsible Staff: General Contractor
- 3.9 ANY ADDITIONAL BMPS:
- No additional BMPs were identified
- 3.10 ALLOWABLE NON-STORMWATER DISCHARGE MANAGEMENT

# Water Used to Control Dust

- Responsible Staff: General Contractor
- Uncontaminated Excavation Dewatering

- Responsible Staff: General Contractor
- Uncontaminated Water Line & Hydrant Flushing

<ul> <li>3.3 DESIGNATE WASHOUT AREAS:</li> <li>Concrete Washout</li> <li>BMP Description: A designated temporary, above-grade concrete washout area will be constructed, as shown on the site plan, part detail in Appendix I. The temporary concrete washout will be constructed with sufficient quantity and volume to contain all lauid and concrete waste generated by washout operations. The washout area will be index with the site plan, sugnetic sheeting all teach on after ear of my holes or teas. Signs will be poster marking the location of the washout area to ensure that concrete equipment operators use the proper facility. Concrete pours with other end on the site site is no longer needed for the construction project. The hardened concrete or and chutes will be stabilized.</li> <li>Installation Schedule: The concrete washout area will be constructed before concrete pours occur at the site.</li> <li>Installation Schedule: The concrete washout area will be constructed before concrete pours occur at the site.</li> <li>Maintenance and Inspection: Inspect equipment/vehicle storage areas and fuel tank weekly and after storm events. Vehicles and equipment will be inspected on each day of use. Leaks will be repaired immediately, or the problem vehicle(S) or equipment that the end team team is the. Keep ample supply of spill-cleanup materials and immediately clean up spills and dispose of materials property.</li> <li>Responsible Staff: General Contractor</li> <li>3.5 ALLOWABLE NON-STORMWATER DISCHARGES AND CONTROL EQUIPMENT/VEHICLE WASHING: BMP Description: All equipment and vehicle washing will be performed off-site.</li> <li>I. Vehicle Materianance: Vehicles and equipment will be invektly taligate sessions, as detailed in Section 6, Part 6.3.</li> <li>I. Vehicle Materianance: Vehicles and equipment will be maintained off-site. All vehicles and equipment including subcontractor vehicles will be checked for leaking all and prove traces.</li> <li>V. Spills Kits: Spill kits will be within the materials will be checked in acco</li></ul>	<ol> <li>Inspection Schedule and Procedures:         <ol> <li>Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs; include there you will inspect, e.g., before/during/and after rain events, spot inspections, etc.).</li> <li>Inspections of the site will be performed once every 7 days and within 24 hours of the and of a storm event of one-holl inch or greater. The inspections will verify that ol BMPs required in Sections 2 and 3 are implemented, maintained, and efficitively minimizing erosion and preventing stormworter contamination from construction materials. For detailed inspection proceedures, see Sections 2 and 3.</li> <li>Describe the general procedures for correcting problems when they are identified. Include responsible stoff and timeframes for making corrections.</li> <li>H corrective actions are identified during an inspection. The actions will be addressed by the General Contractor within 24 hours of the report and completed maintenance as soon as possible or before the next storm event.</li> <li>I. Altoch a copy of the inspection report you will use for your site.</li> </ol> </li> <li>CORRECTIVE ACTION LOG</li> <li>Contractor shall maintain corrective action lags in accordance with NPDES ILR10 Permit Requirements. SECTION 4: RECORDKEEPING</li> <li>RECORDKEEPING</li> </ol> <li>Contractor shall provide a 3-ring binder to maintain construction activity, corrective action, inspections and log of changes to the approved SWPPP in accordance with NPDES ILR10 Permit Requirements. SECTION 4: RECORDKEEPING</li> <li>LOG OF CHANGES TO THE SWPPP</li> <li>Contractor shall maintain a log of changes to the approved SWPPP in accordance with NPDES ILR10 Permit Requirements.</li> <li>SECTION 7: FINAL STABILIZATION</li> <li>Permanent Seeding</li> <li>BMP Description: Permanent seeding will be applied</li>	<image/> <text><text><section-header><text><text><text></text></text></text></section-header></text></text>
<ul> <li>Installation Schedule: The spill prevention and control procedures will be implemented once construction begins on-site.</li> <li>Maintenance and Inspection: All personnel will be instructed, during tailgate training sessions, regarcing the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.</li> <li>Responsible Staff: General Contractor</li> <li>ANY ADDITIONAL BMPS:</li> <li>No additional BMPs were identified</li> <li>3.10 ALLOWABLE NON-STORMWATER DISCHARGE MANAGEMENT</li> <li>Any changes in construction activities that produce other allowable non-stormwater discharges will be identified, and the SWPPP will be amended and the appropriate erosion and sediment control will be implemented.</li> <li>Water Used to Control Dust</li> <li>BMP Description: Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecosited or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water of a rate of 300 gallons per accer or less will be performed by a mobile pressure-type distributor truck no more than three times a day during the months of May-September and once per day during the months of October-April or whenever the dryness of the soil warrants it.</li> <li>Responsible Staff: General Contractor</li> <li>Uncontaminated Excovation Dewatering</li> <li>BMP Description: Water from excavation dewatering measures shall be directed into the sediment basins or litter with filter bags prior to discharging off-site. See Section 2, part 8 for BMP description.</li> <li>Responsible Staff: General Contractor</li> <li>Uncontaminated Water Line &amp; Hydrant Flushing</li> <li>BMP Description: Uncontaminated water from water line flushing of the site infrastructure will be discharged to the sediment basin, while avoiding any contact with disturbed areas. If water from the line flushing b</li></ul>	Responsible Staff: General Contractor	Synthetic Turf Athletic Field Sitework Niles Township High School District 219 7700 Gross Point Rd, Skokie, Illinois 60077
<ul> <li>haul the contaminated water off-site to an approved disposal site.</li> <li>Responsible Staff: General Contractor</li> <li>SECTION 4: (NOT USED)</li> <li>SECTION 5: INSPECTIONS and MAINTENANCE</li> <li>5.1 INSPECTIONS</li> <li>Qualified personnel (provided by the contractor) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven colendar days, and within 24 hours of the end of a rainfall event that is 0.5 inches or greater, or equivalent snowfall.</li> <li>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. Evolution whether erosion and sediment control measures identified in the plan shall be abserved to ensure that they are operating correctly. Where discharge locations or points are accessible, hey shall be inspected to accertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.</li> <li>Based on the results of the inspection, necessary pollution prevention measures identified in the plan shall be undertaken as soon as practicable after such inspection. Such modifications of personnel making the inspection. The date (s) of the inspection, name(s) and qualifications of personnel making the inspection.</li> <li>A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection of any incidence of noncompliance (ION) report for any actions thealt in accordance with the NPDEs permit had libe bigged by any contract shall notify the appropriate Agency Field Operations Section office by email at epas synoncomp@illineling.</li> <li>The contractor shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) rep</li></ul>		NO ISSUE DATE IFC SET 07/03/23
All inspection reports shall be retained at the construction site and kept under Appendix E.  Inspection Personnel:		22053 <b>C5.1</b>

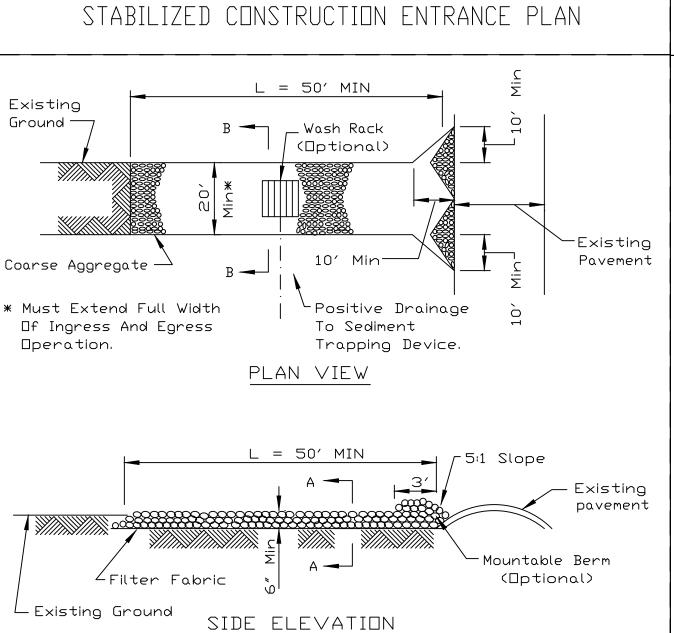
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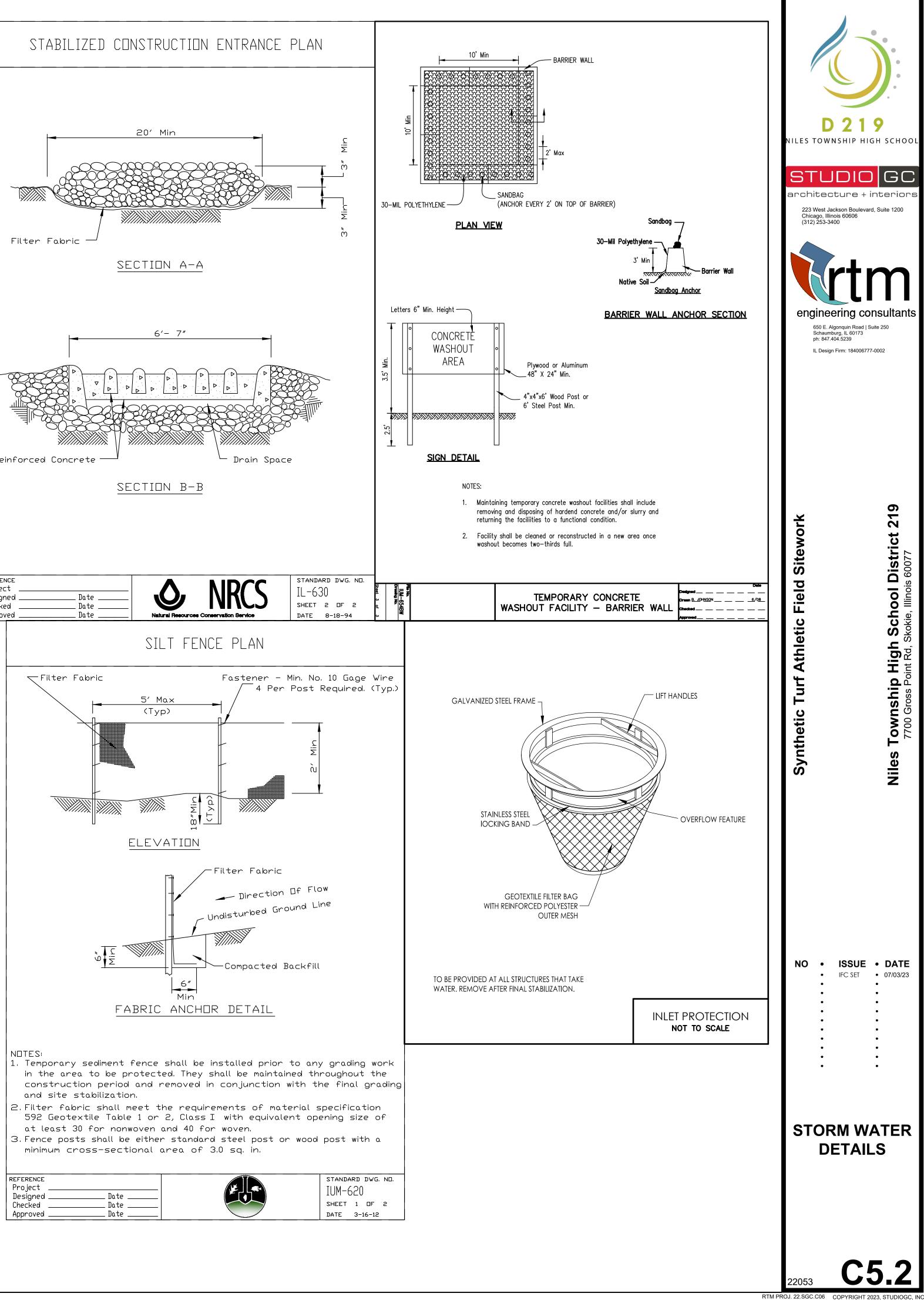
Existing Ground -

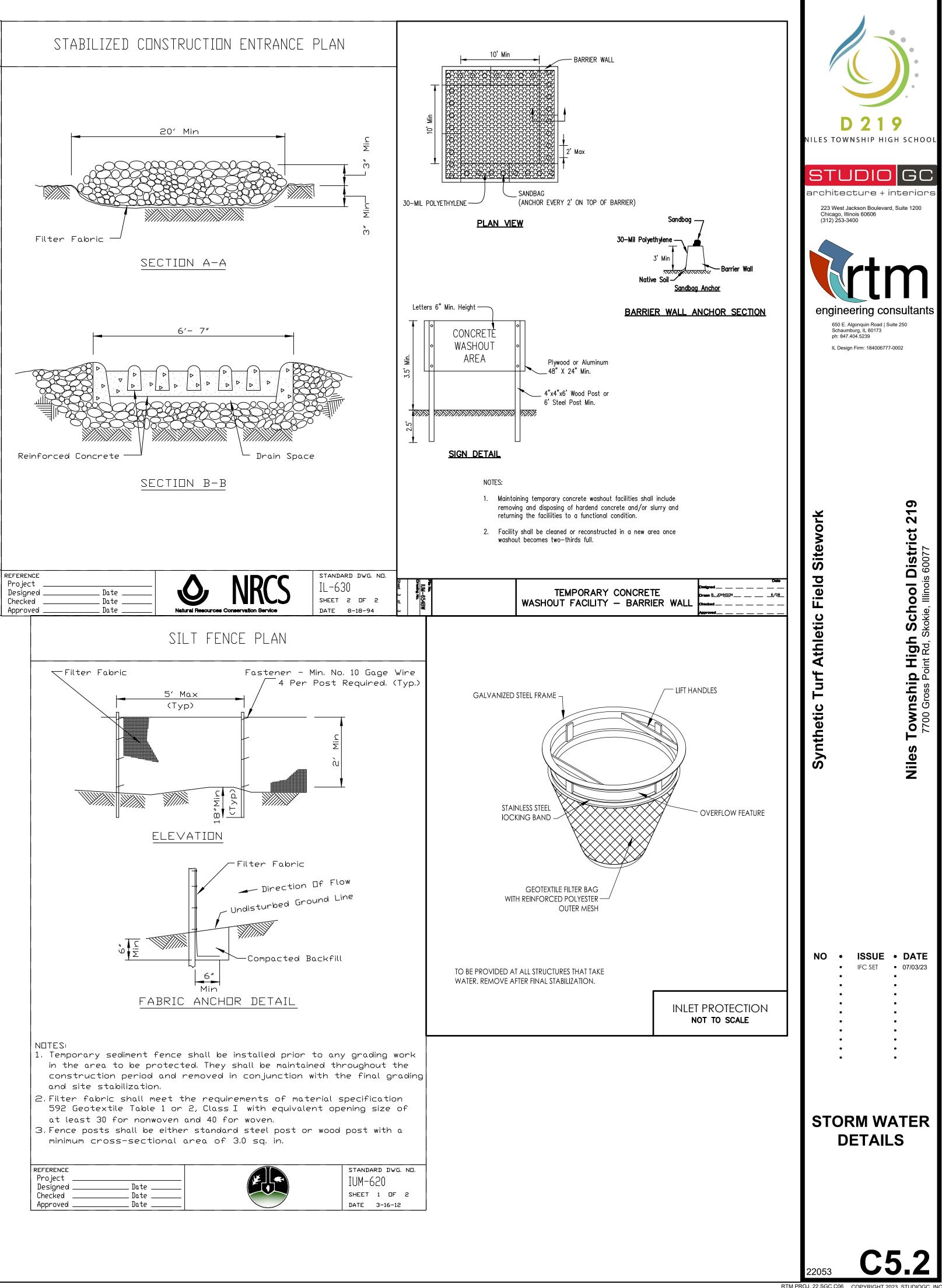
Operation.

NDTES:

REFERENCE Project Designed . Checked Approved \_







1.Filter fabric shall meet the requirements of material specification 592 GEDTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.

2.Rock or reclaimed concrete shall meet one of the following IDDT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.

3. Any drainage facilities required because of washing shall be

constructed according to manufacturers specifications. 4. If wash racks are used they shall be installed according to the

manufacturer's specifications.

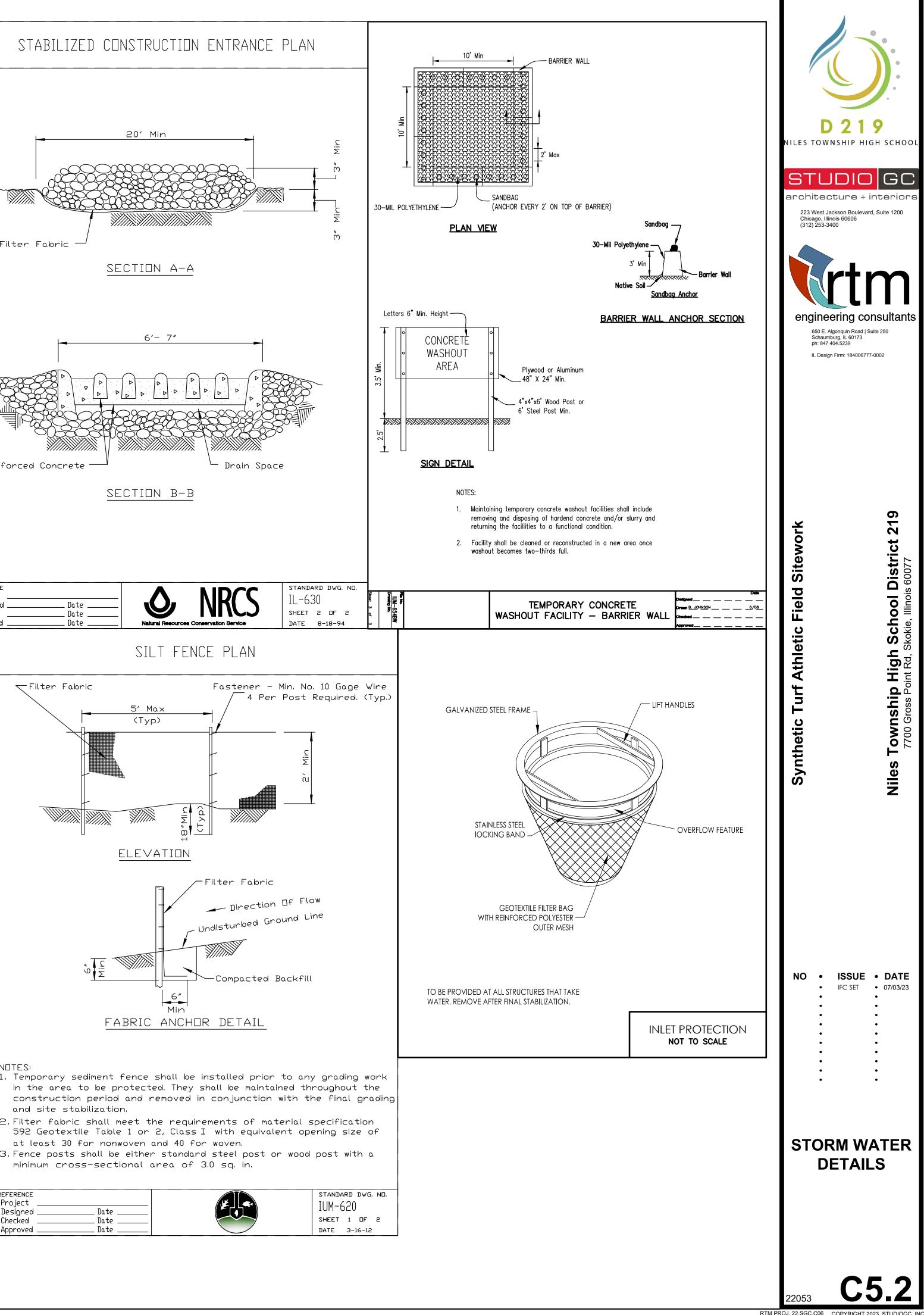
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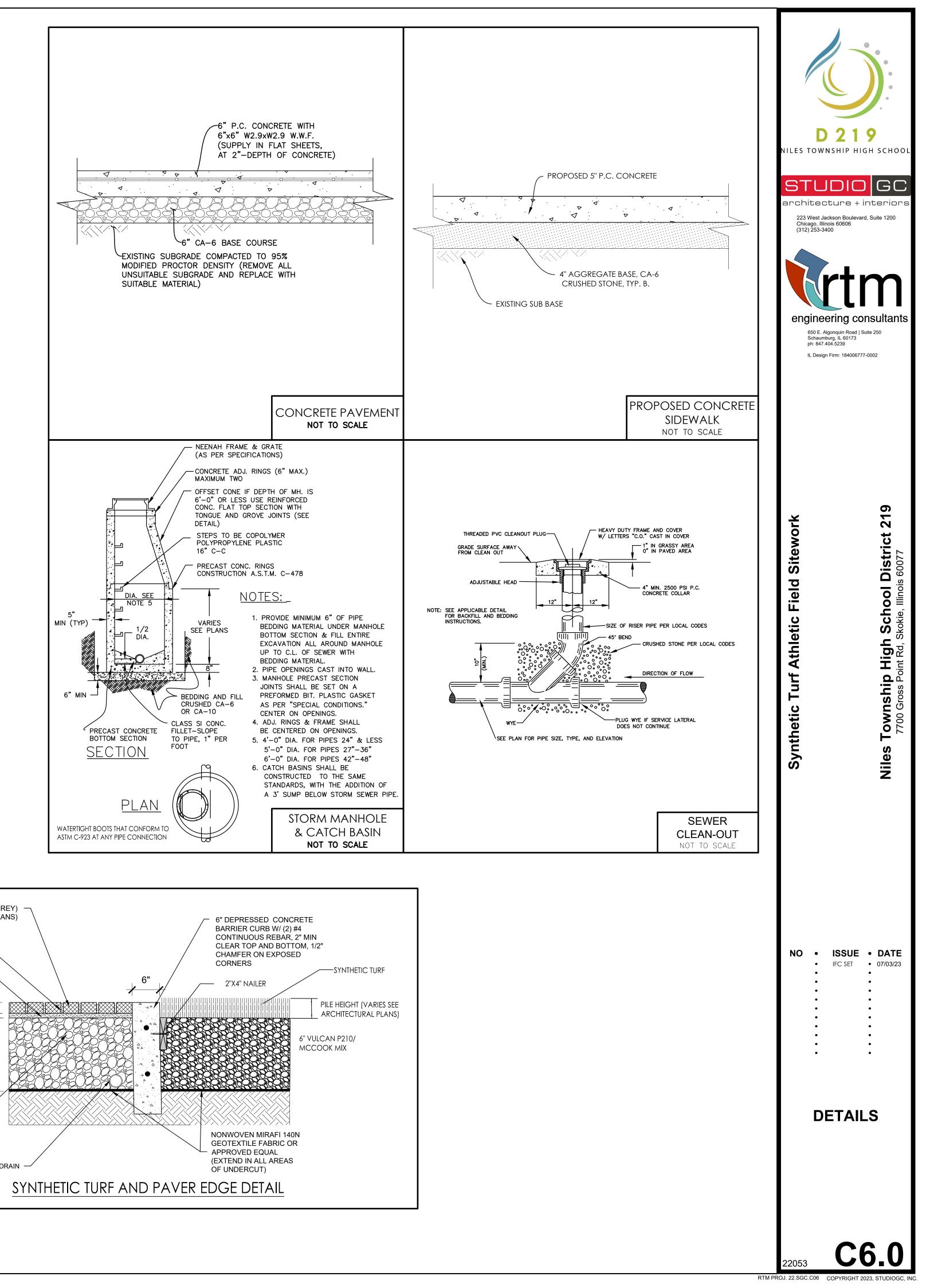
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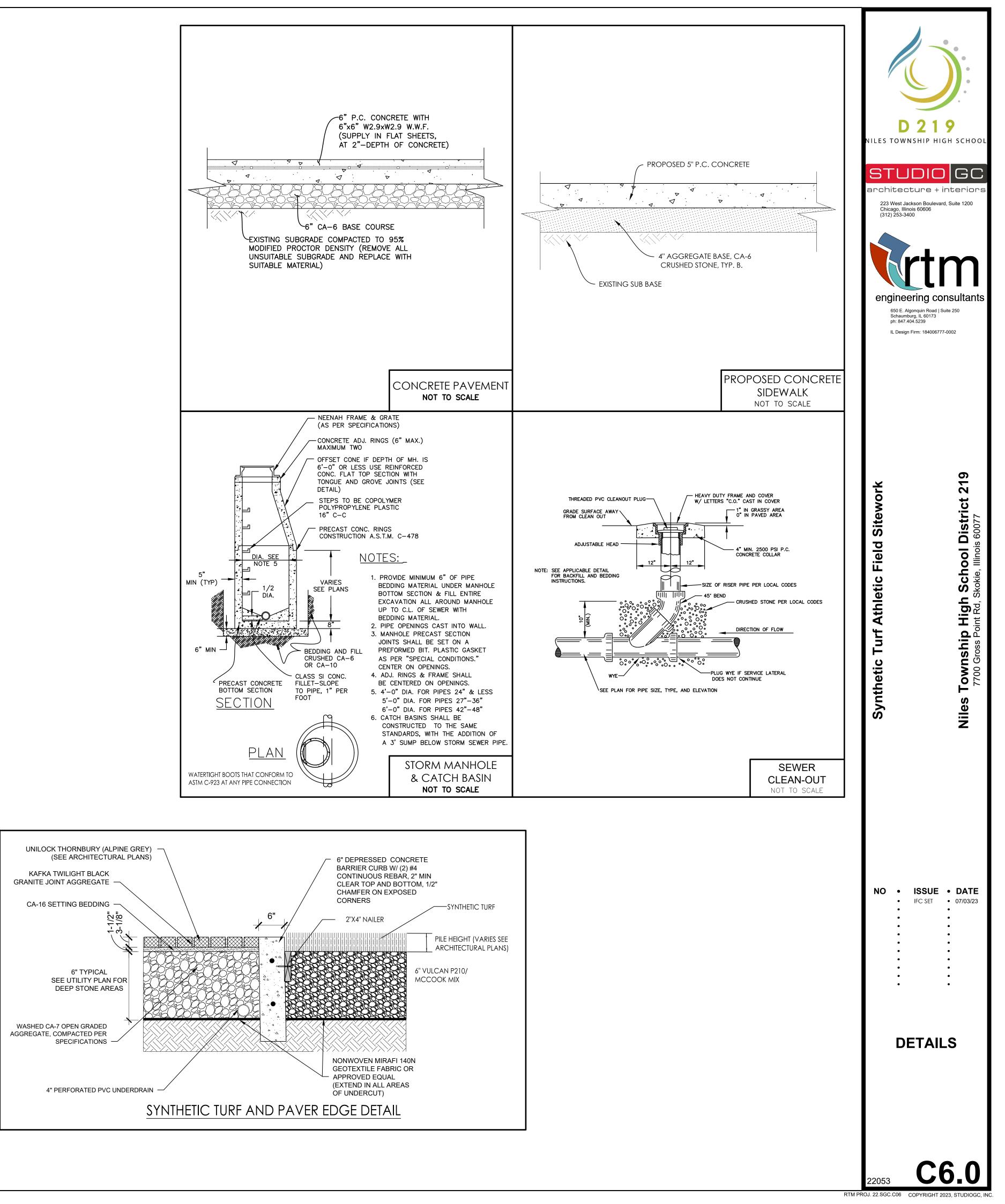


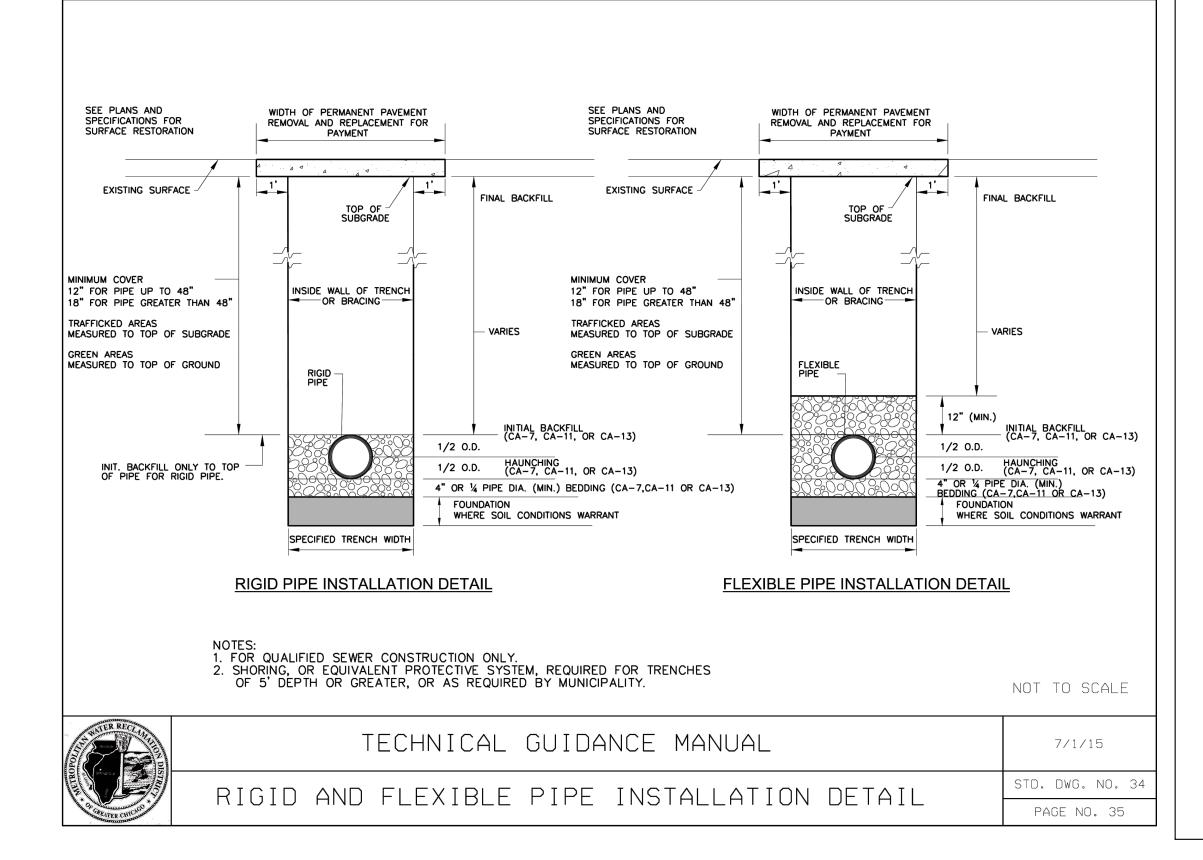
STANDARD DWG. NO. IL-630 SHEET 1 DF 2 DATE 8-18-94



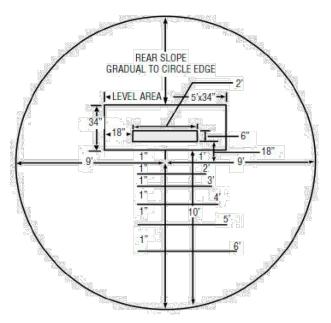
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Checked	Date	
Approved	Date	







# SUGGESTED LAYOUT OF PITCHER'S MOUND



The top of the pitcher's plate must be 10 inches above the top surface of home plate. Inside the circle, a pitcher's mound should be constructed according to the specifications shown in the diagram.

The degree of slope from a point 6 inches in front of the pitcher's plate to a point 6 feet toward home plate shall be one inch to one foot, and such degree of slope shall be uniform.

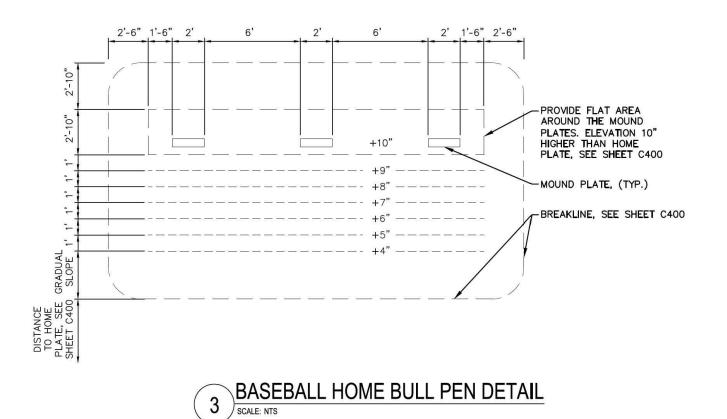
The pitching mound is an 18-foot diameter circle, the center of which is 59 feet from the back point of home plate.

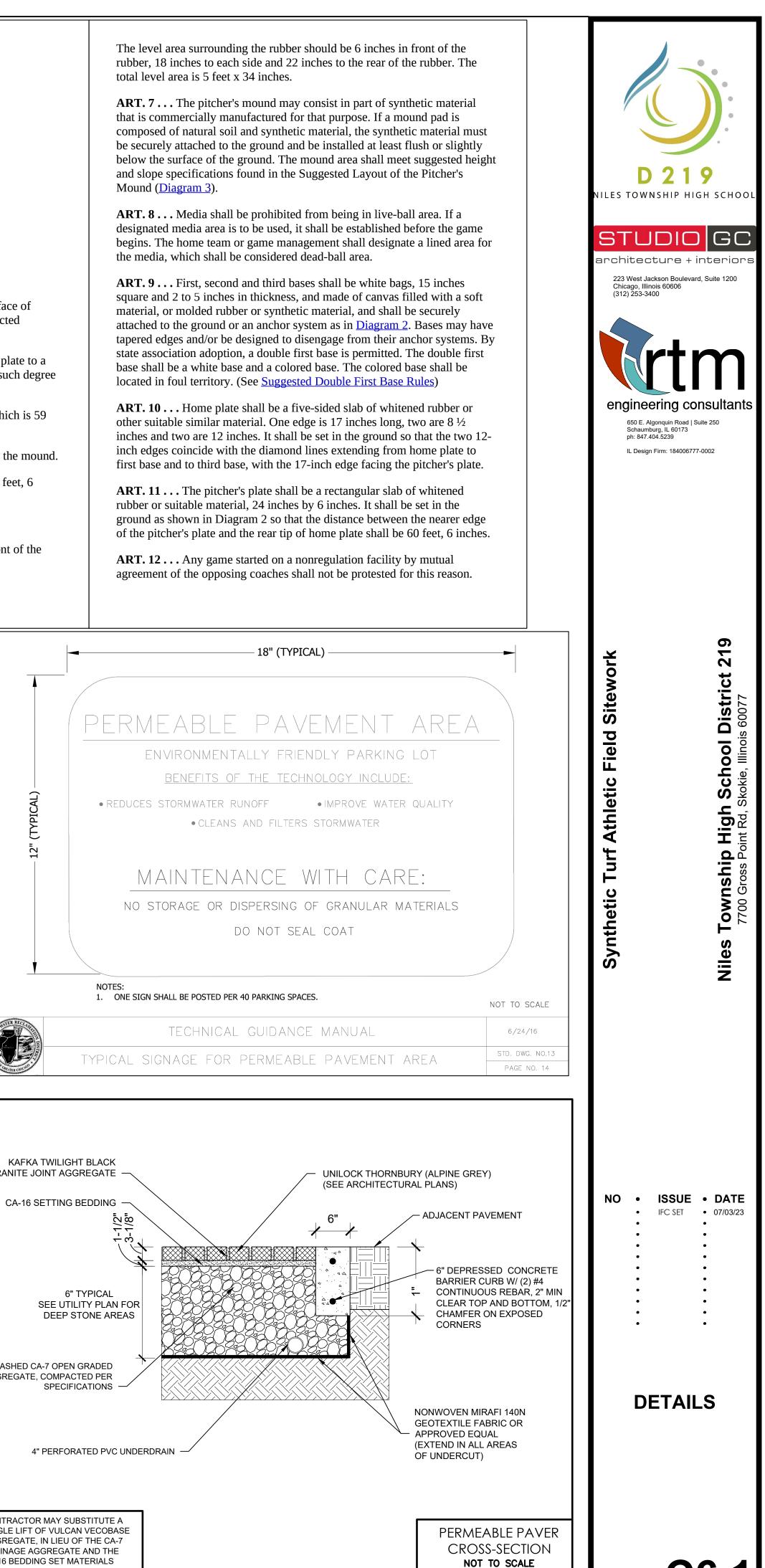
Locate the front edge of the rubber 18 inches behind the center of the mound.

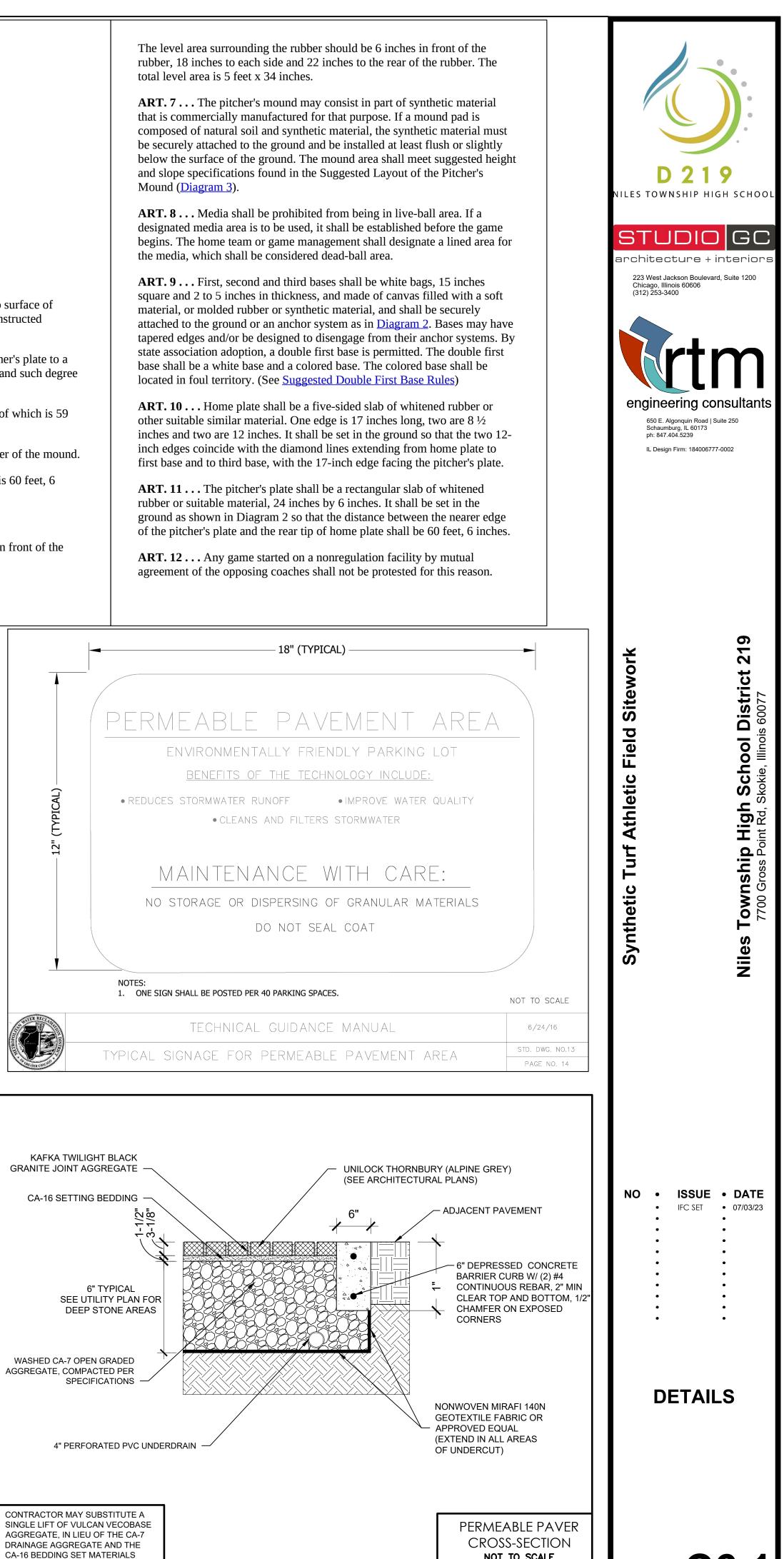
The front edge of the rubber to the back point of home plate is 60 feet, 6 inches.

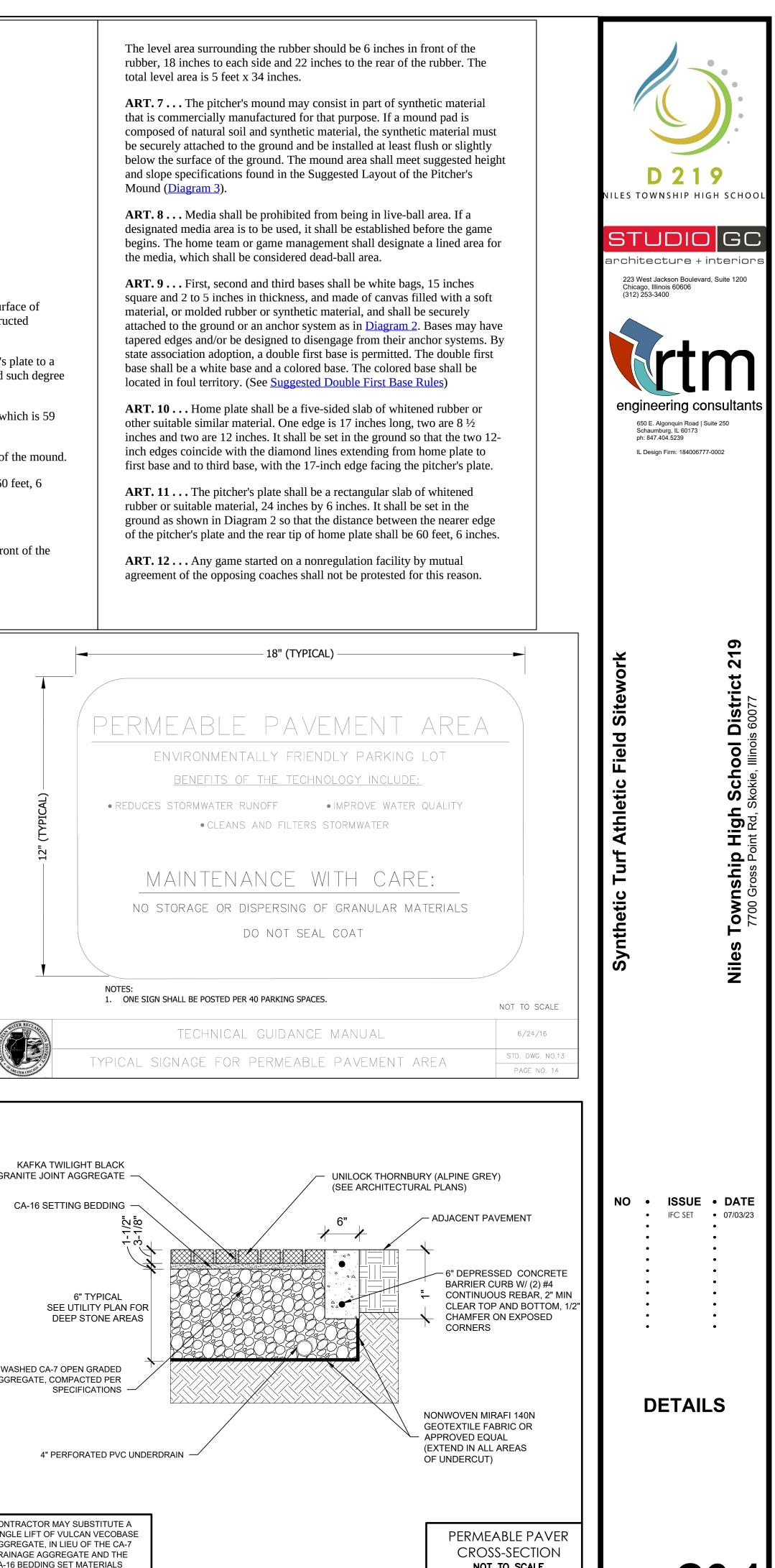
The slope starts 6 inches from the front edge of the rubber.

The slope shall be 6 inches from the starting point, 6 inches in front of the rubber to a point 6 feet in front of the rubber.

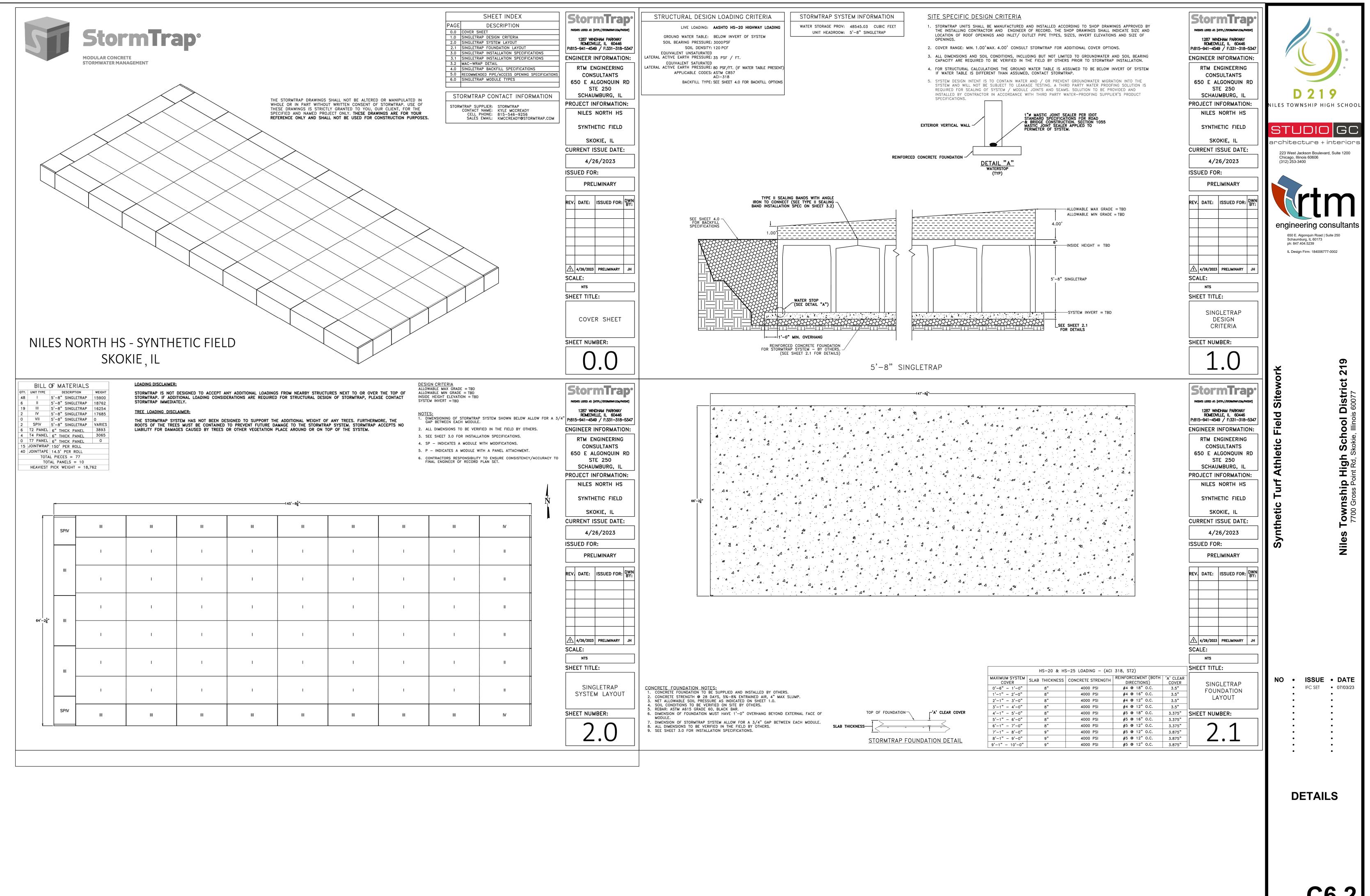






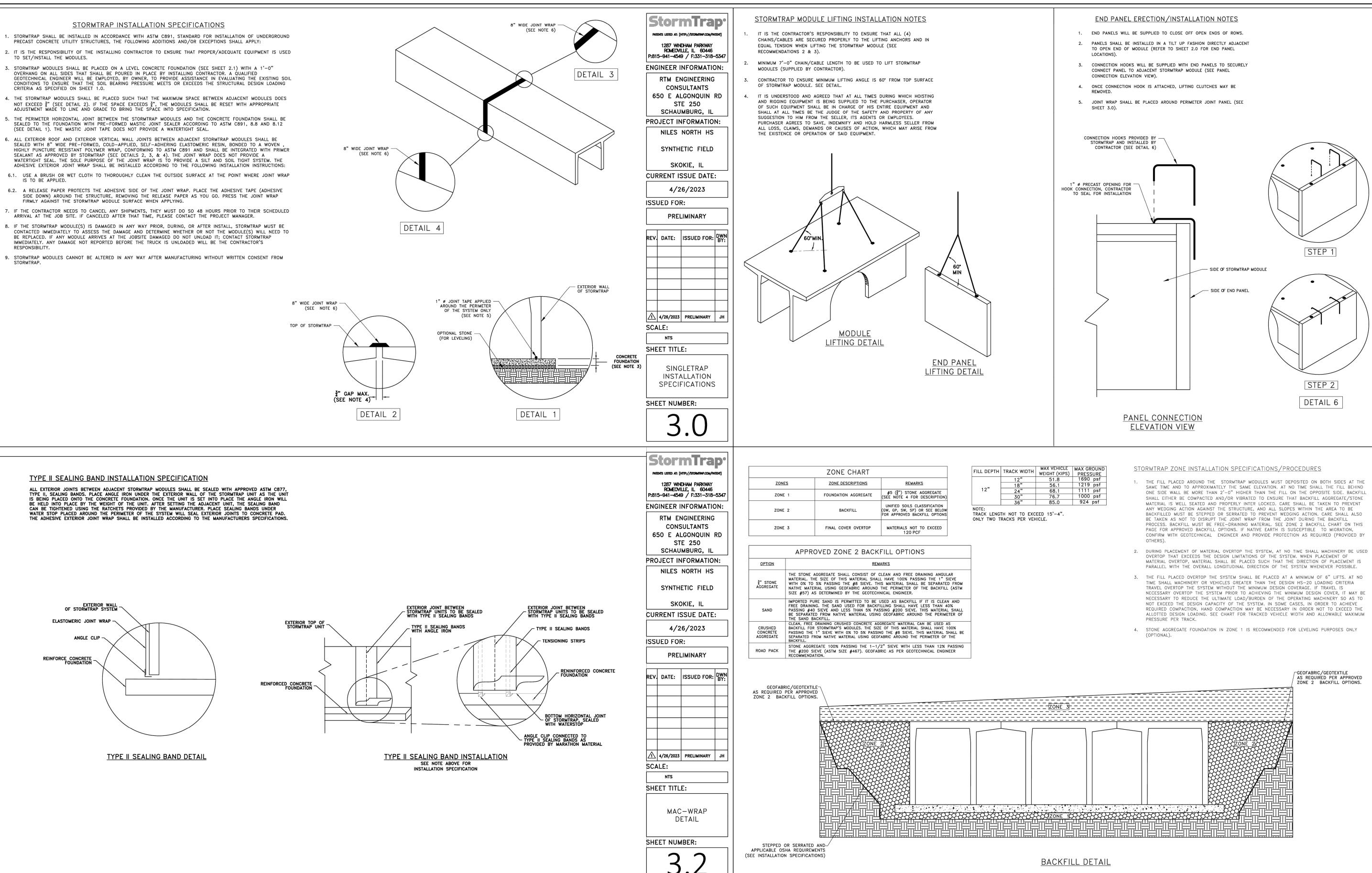


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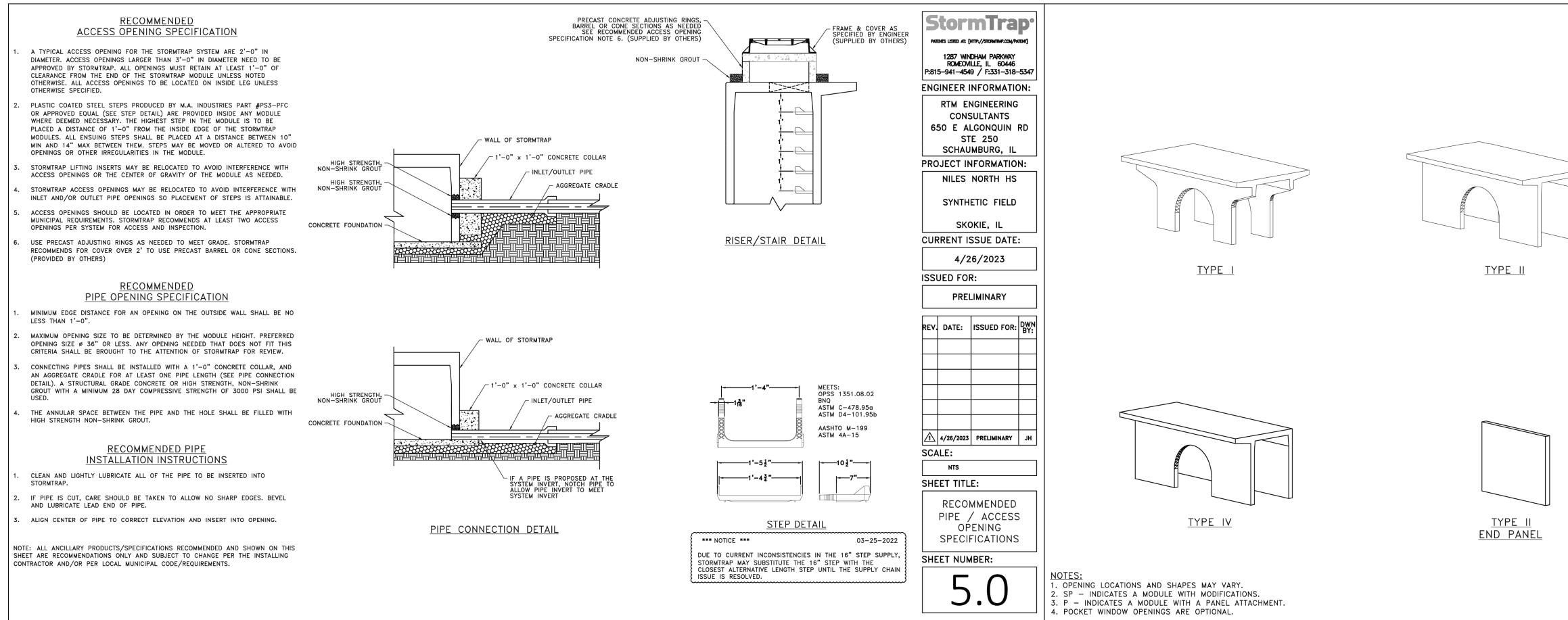
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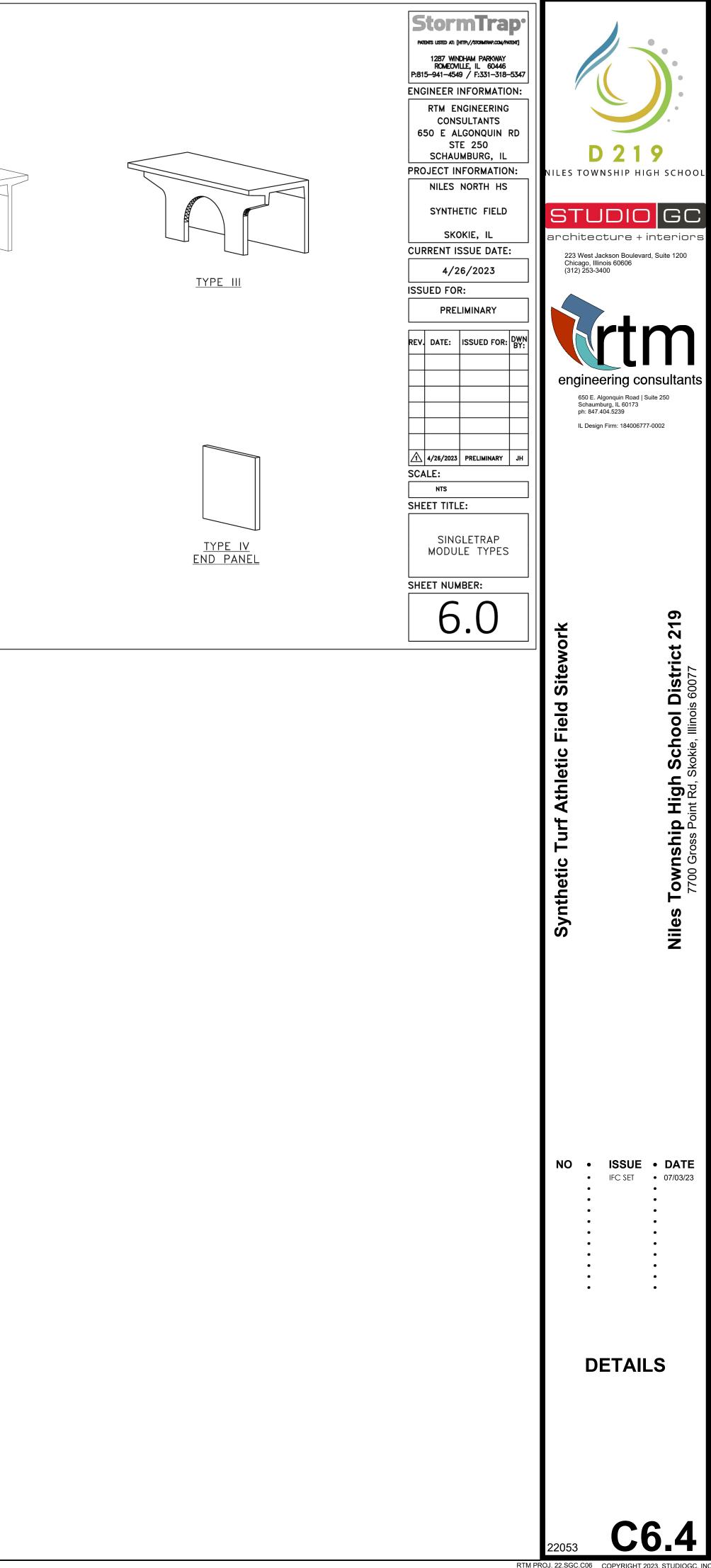


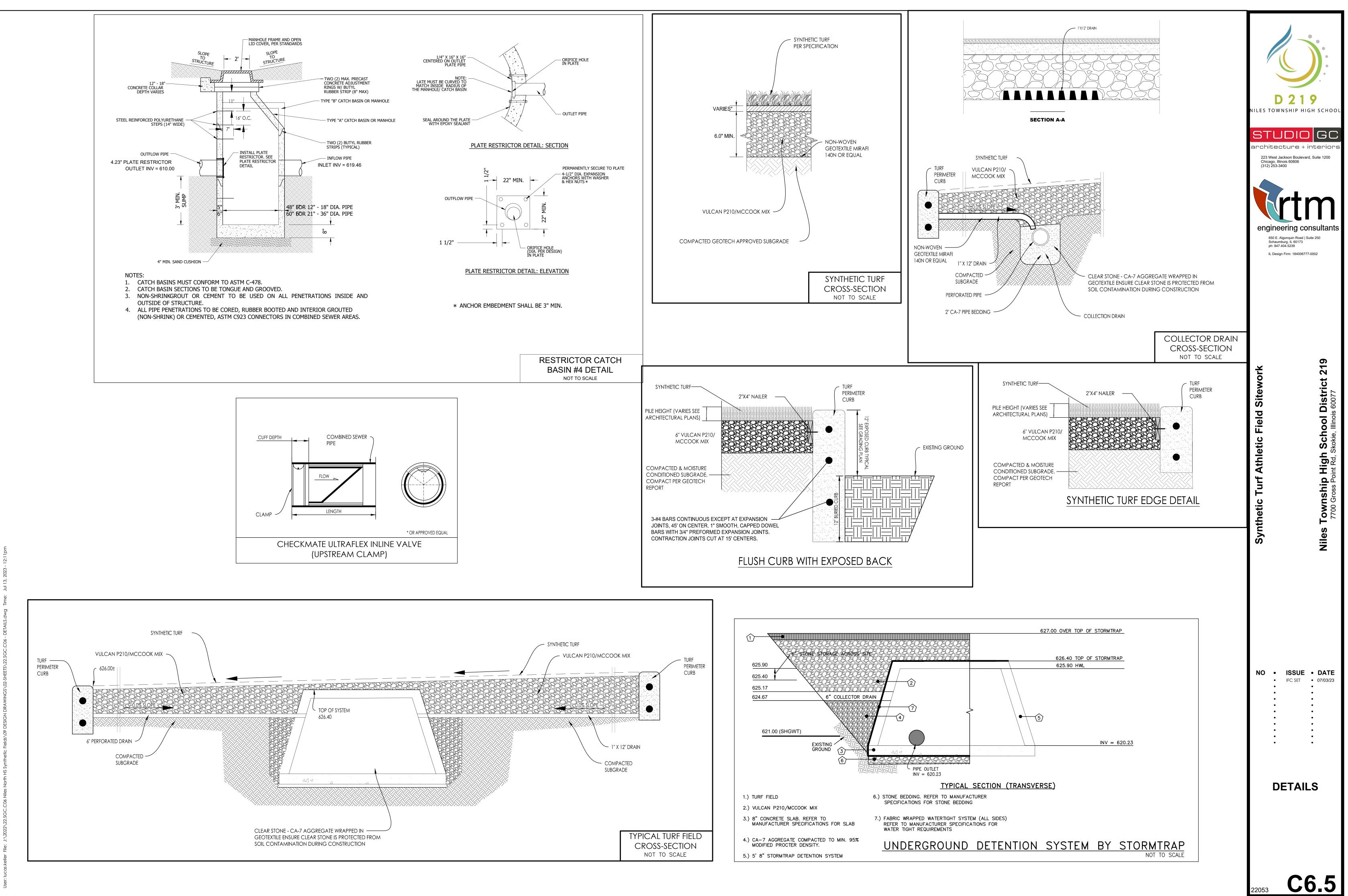
- 1. THE FILL PLACED AROUND THE STORMTRAP MODULES MUST DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO ENSURE THAT BACKFILL AGGREGATE/STONE ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEDGING ACTION. CARE SHALL ALSO PROCESS. BACKFILL MUST BE FREE-DRAINING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS CONFIRM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY
- NECESSARY OVERTOP THE SYSTEM PRIOR TO ACHIEVING THE MINIMUM DESIGN COVER, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BURDEN OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. IN SOME CASES, IN ORDER TO ACHIEVE REQUIRED COMPACTION, HAND COMPACTION MAY BE NECESSARY IN ORDER NOT TO EXCEED THE ALLOTTED DESIGN LOADING. SEE CHART FOR TRACKED VEHICLE WIDTH AND ALLOWABLE MAXIMUM

StormTrap:         PATENTS LISTED AT: [HTTP://STORMITAP.COM/PATENT]         1287 WINDHAM PARKWAY ROMEOVILLE, IL 60446         P:815-941-4549 / F:331-318-5347         NGINEER INFORMATION:         RTM ENGINEERING CONSULTANTS         650 E ALGONQUIN RD STE 250 SCHAUMBURG, IL         ROJECT INFORMATION:         NILES NORTH HS         SYNTHETIC FIELD         SKOKIE, IL         URRENT ISSUE DATE:         4/26/2023         SUED FOR:         PRELIMINARY	ILES TOWNSHIP HIGH SCHOO D 2 1 9 NILES TOWNSHIP HIGH SCHOO STUDIO CCC architecture + interiores 23 West Jackson Boulevard, Suite 1200 Chicago, Illinois 60606 (12) 253-3400 SUISSI SCHOOL SCHOOL Chicago, Illinois 60606 (12) 253-3400 SUISSI SCHOOL SUISSI Chicago, Illinois 60606 (12) 253-3400 SUISSI SCHOOL SUISSI Chicago, Illinois 60606 (12) 253-3400 SUISSI SCHOOL SUISSI Chicago, Illinois 60606 (12) 253-3400 SUISSI SCHOOL SUISSI SUISSI SCHOOL SUISSI SCHOOL SUISSI SUISSI SCHOOL SUISSI SUISSI SCHOOL SUISSI SCHOOL SUISSI SCHOOL SUISSI SUISSI SCHOOL SUISSI SCHOOL SUIS
CALE: NTS HEET TITLE: SINGLETRAP INSTALLATION SPECIFICATIONS HEET NUMBER: A J J StormTrap StormTrap MENS LISTED AT: [HTTP://STORMTRAP.COM/PATENT] 1287 WINDHAM PARKWAY ROMEOVILLE, IL 60446 PB15-941-4549 / F:331-318-5347 NGINEER INFORMATION: RTM ENGINEERING CONSULTANTS 650 E ALGONQUIN RD STE 250 SCHAUMBURG, IL ROJECT INFORMATION: NILES NORTH HS SYNTHETIC FIELD SKOKIE, IL URRENT ISSUE DATE:	Synthetic Turf Athletic Field Sitework Niles Township High School District 219 7700 Gross Point Rd, Skokie, Illinois 60077
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