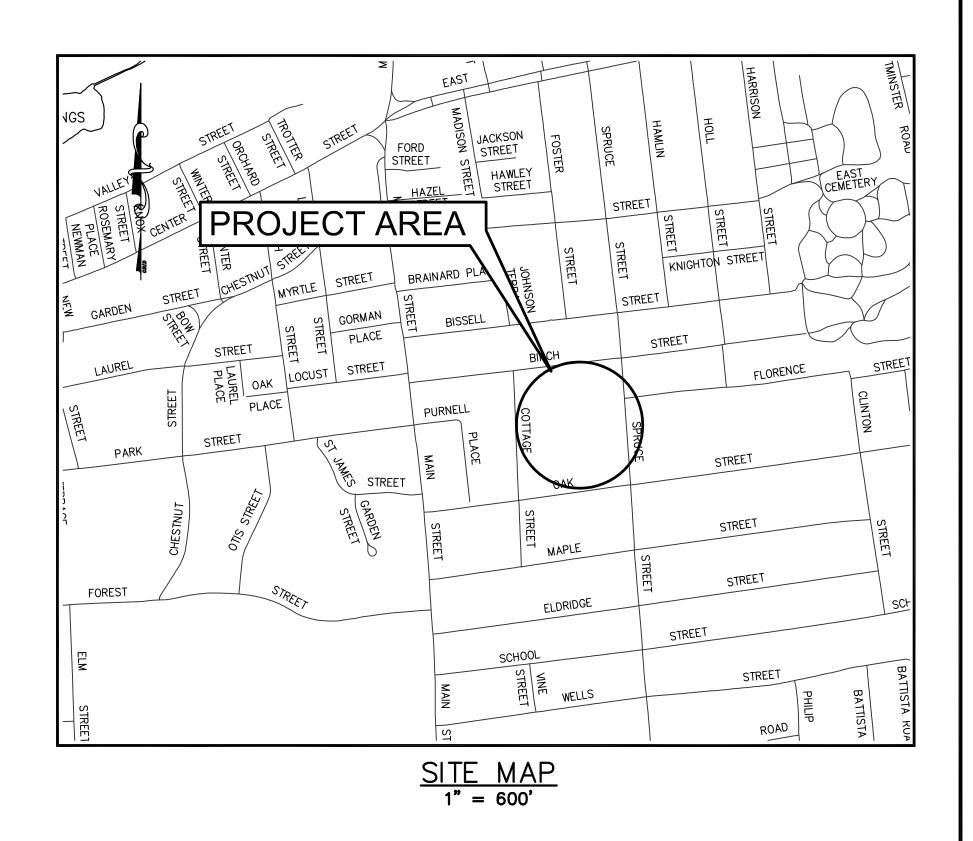


TOWN OF MANCHESTER

PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION





STREETSCAPE IMPROVEMENTS SPRUCE STREET AT NATHAN HALE SCHOOL

NOVEMBER 2024

REVISED TO 11-27-24 (ADDENDUM NO. 1)

DESIGN STANDARD: TOWN OF MANCHESTER PUBLIC IMPROVEMENT

STANDARDS, EFFECTIVE DATE OCTOBER 31, 2020,

AS AMENDED

DATUMS: HORIZONTAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK

(NAD83 AS ESTABLISHED IN 1998)

VERTICAL DATUM: TOWN OF MANCHESTER CONTROL NETWORK

(NAVD88 USING GEOID 96)

STANDARD

SPECIFICATIONS: SEE CONTRACT DOCUMENTS

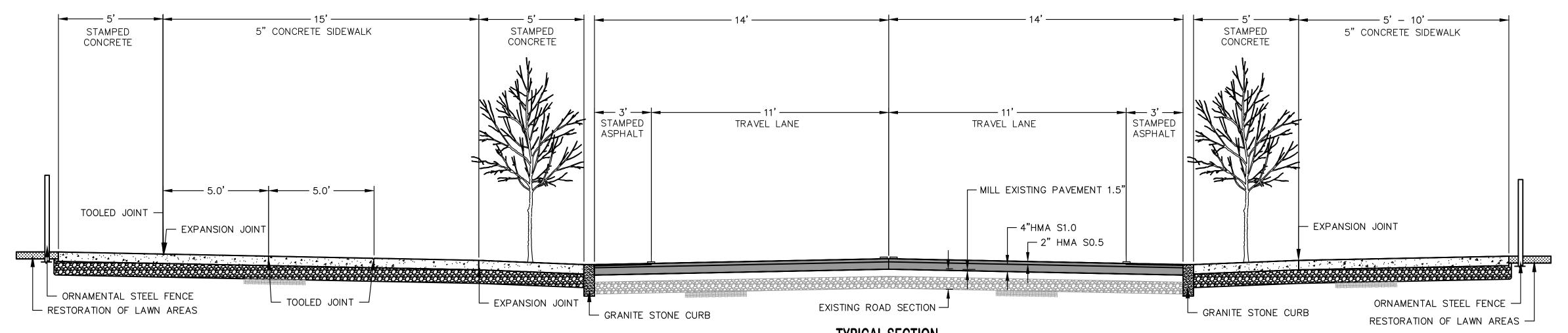
DESIGN SCALES:

PLAN: 1" = 20'
OTHER SCALES AS NOTED

	LIST	OF	DRAWINGS		
SHEET NO.	DESCF	RIPTION			
1	COVER SHEET				
2	TYPICAL SECTION AND	NOTES			
3-5	DEMOLITION PLANS	DEMOLITION PLANS			
6-8	SITE PLANS				
9-10	PAVEMENT MARKING AND SIGNING PLAN				
11	POCKET PARK DETAIL PLAN				
12	POCKET PARK LANDSCAPING PLAN				
13	TRAFFIC PLAN				
14-18	ELECTRICAL PLANS				
19-22	DETAILS				
1 OF 1	ALTERNATE BID NO. 1	BASKETE	BALL COURT		

DESIGNED BY:
TOWN OF MANCHESTER
ENGINEERING DIVISION





TYPICAL SECTION SPRUCE STREET AT RAISED SPEED TABLE

NO SCALE

NOTES

- 1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "MANCHESTER PUBLIC IMPROVEMENT STANDARDS", EFFECTIVE OCTOBER 31, 2020, AS AMENDED AND THE STATE OF CONN. DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020, INCLUDING ANY SUPPLEMENTS.
- 2. ALL ELEVATIONS ARE BASED ON THE TOWN OF MANCHESTER CONTROL NETWORK.
- 3. IMPLEMENTING WORKER SAFETY AND HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH ALL RULES, LAWS AND REGULATIONS REGARDING SAFETY AND RISK OF EXPOSURE TO PHYSICAL AND CHEMICAL HAZARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL EMPLOYEES OF THE CONTRACTOR AND SUBCONTRACTORS ARE TO WEAR REFLECTIVE VESTS AND HARD HATS AT ALL TIMES WHEN ON THE PROJECT SITE.
- 4. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
- 5. THE CONTRACTOR SHALL PHASE CONSTRUCTION OPERATIONS TO MINIMIZE THE SIZE OF DISTURBED AREAS AND PERIOD OF TIME THESE AREAS ARE LEFT UNSTABILIZED AND SUBJECT TO EROSION. THIS INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION OF DRAINAGE SYSTEMS DURING THE EARLY STAGES OF CONSTRUCTION AND LIMITING LENGTHS OF RECLAMATION AND FULL—DEPTH ROAD RECONSTRUCTION AREAS TO ALSO LESSEN IMPACTS TO VEHICLE AND PEDESTRIAN TRAVEL THROUGH THE PROJECT AREA.
- 6. THE CONTRACTOR SHALL TAKE CARE NOT TO DISTURB EXISTING MONUMENTATION THAT MAY BE PRESENT NEAR THE PROJECT AREA.
- 7. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS AND PAY ASSOCIATED FEES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 8. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINE AND LIMITS OF EASEMENTS UNLESS SHOWN OTHERWISE ON THE PLANS.
- 9. THE CONTRACTOR SHALL RESTORE TWO LANES OF TRAFFIC ON SPRUCE STREET STREET AT THE END OF EACH WORK DAY. IT IS ANTICIPATED THAT THE ROAD WILL REMAIN OPEN AT ALL TIMES WITH ALTERNATING ONE LANE TRAFFIC DURING CONSTRUCTION.
- 10. THE CONTRACTOR SHALL COMMIT SUFFICIENT RESOURCES TO THE PROJECT TO ENSURE THE PROJECT IS COMPLETED WITHIN THE ALLOTTED CONTRACT TIME. ONCE MOBILIZED, THE CONTRACTOR SHALL WORK CONTINUOUSLY ON THE PROJECT UNTIL COMPLETION. ANY UNAUTHORIZED VACATING OF THE JOBSITE IS SUBJECT TO PENALTIES DESCRIBED UNDER THE "LIQUIDATED DAMAGES" SECTION OF THE CONTRACT SPECIFICATIONS.

- 11. THE CONTRACTOR SHALL NOT STORE CONSTRUCTION EQUIPMENT OR MATERIALS WITHIN THE PUBLIC RIGHT—OF—WAY.
- 12. CONSTRUCTION ENTRANCES ARE NOT SHOWN ON THE PLAN; HOWEVER, THEY SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER DURING CONSTRUCTION FOR EGRESS FROM TEMPORARY STOCKPILE AREAS. THE PROPOSED LOCATION OF STOCKPILE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR.
- 13. NO WORK SHALL COMMENCE UNTIL ALL CONSTRUCTION AREA SIGNS ARE IN PLACE.
- 14. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
- 15. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH TOPSOIL, FERTILIZED AND SEEDED AS PER THE SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL EFFORTS TO MINIMIZE THE LIMITS OF DISTURBANCE AND ASSOCIATED RESTORATION THAT IS REQUIRED.
- 16. ANY DRIVEWAYS, SIDEWALKS, CURB AND LAWN AREAS LOCATED ON PRIVATE PROPERTY OR WITHIN THE RIGHT—OF—WAY THAT ARE IMPACTED DURING CONSTRUCTION SHALL BE RESTORED TO PRE—CONSTRUCTION CONDITIONS AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE REQUIRED LIMITS OF SUCH RESTORATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. RESTORATION ON PRIVATE PROPERTY SHALL BE COMPLETED AS PROMPTLY AS PRACTICAL WITHIN THIRTY (30) CALENDAR DAYS OF COMPLETING WORK ON THE PROPERTY.
- 17. ALL SEDIMENT CONTROL SYSTEMS SHALL MEET THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS PREPARED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, LATEST REVISION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, MAINTENANCE AND REPAIR OF EROSION CONTROLS REQUIRED FOR THE PROJECT. ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR FOR TEMPORARY STOCKPILING OF EXCAVATED MATERIAL AND WHERE DEEMED NECESSARY BY THE ENGINEER. EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL THE SITE IS STABILIZED AND THE ENGINEER APPROVES THEIR REMOVAL.
- 18. SILT SACKS SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASINS WITHIN THE PROJECT AREA AND WHERE DIRECTED BY THE ENGINEER. SILT SACKS SHALL BE THE APPROPRIATE TYPE FOR CATCH BASINS WITH AND WITHOUT CURB INLETS.
- 19. HORIZONTAL AND VERTICAL LOCATIONS OF PROPOSED WORK MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.

- 20. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN INFORMATION SHOWN ON THE PLANS.
- 21. THE EXISTENCE OF UTILITIES AND APPURTENANCES AS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. THE EXACT SIZE, LOCATION, TYPE, AND ELEVATION OF ALL UTILITIES WITHIN ALL WORK AREAS SHALL BE THOROUGHLY INVESTIGATED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "CALL—BEFORE—YOU—DIG" AT 1—800—922—4455 AND MUST HAVE ALL UTILITIES MARKED ON THE GROUND PRIOR TO THE START OF CONSTRUCTION.
- 22. THE QUANTITIES AS INDICATED IN THE CONTRACT DOCUMENTS ARE APPROXIMATE AND MAY NOT INDICATE THE ACTUAL QUANTITIES OF WORK REQUIRED. THE CONTRACTOR MUST VERIFY ALL QUANTITIES.
- 23. SURPLUS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL DISPOSE OF SURPLUS EXCAVATED MATERIAL IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.
- 24. PROPOSED STRUCTURE FRAME ELEVATIONS IDENTIFIED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL SET FRAME ELEVATIONS AS REQUIRED BASED ON EXISTING FEATURES AND GRADES IN THE VICINITY AS DIRECTED BY THE ENGINEER.
- 25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY HANDLING OF ALL STORMWATER RUNOFF DURING CONSTRUCTION. METHODS OF HANDLING RUNOFF SHALL BE APPROVED BY THE ENGINEER.
- 26. AT THE END OF EACH WORKING DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING NEW DRAINAGE SYSTEMS TO EXISTING. ALL DRAINAGE SYSTEMS WITHIN THE CONSTRUCTION LIMITS SHALL BE MAINTAINED BY THE CONTRACTOR.
- 27. FOR CONNECTIONS TO EXISTING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL VERIFY THE EXISTING STRUCTURE INVERTS, NOTIFY THE ENGINEER IF A DISCREPANCY EXISTS, AND ADJUST THE PIPE SLOPES AS DIRECTED.
- 28. ANY CORING OR OTHER MODIFICATIONS TO EXISTING STRUCTURES REQUIRED FOR CONNECTING NEW PIPES SHALL BE INCLUDED IN THE LINEAR FOOT COST FOR THE ASSOCIATED PIPE INSTALLATION.
- 29. ALL SIDEWALKS, DRIVEWAY APRONS AND SIDEWALK RAMPS SHALL BE CONSTRUCTED TO PROVIDE HANDICAPPED ACCESSIBILITY IN ACCORDANCE WITH THE CONNECTICUT BUILDING CODE.
- 30. ALL CONCRETE SIDEWALK RAMPS SHALL BE INSTALLED WITH DETECTABLE WARNING TILES.

- 31. WHERE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL SIGNS LOCATED WITHIN THE LIMITS OF PROPOSED CONCRETE SIDEWALK.
- 32. FOR SIDEWALKS AND RAMPS, A CLEARANCE OF 48" (36" MINIMUM)
 MUST BE PROVIDED BETWEEN ANY OBSTRUCTION AND THE BACK EDGE
 OF THE SIDEWALK AND RAMP OR FACE OF CURB.
- 33. FINAL LOCATION OF ALL PROPOSED UNDERGROUND UTILITIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 34. RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DIVISION UPON COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ALL INFORMATION NECESSARY TO GENERATE THE DRAWINGS. A REDLINED PROGRESS SET OF DRAWINGS SHALL BE MAINTAINED DAILY AND BE AVAILABLE TO THE ENGINEER AT ALL TIMES.
- 35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY THRUST RESTRAINT THAT IS REQUIRED.



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

LEGEND

= WETLANDS BOUNDARY

= RETAINING WALL

= GUIDE RAIL

SOME STONE WALL

SOME STONE WA

E = ELECTRIC BOX

⚠ = WETLAND FLAG

■ GRANITE MONOMENT

O = IRON PIPE

O = IRON ROD

O = SIGN

O = DOUBLE POST SIGN

M = MAIL BOX

WY = WATER VALVE

BV = BUTTERFLY VALV

T = TELEPHONE BOX

● = DRILL HOLE

• = DRILL HOLE

• = BOLLARD

• = BOLLARD

□ = UTILITY POLE WITH LIGHT

□ = GAS GATE

PROJECT NUMBER 2023111

FILENAME 2023111-PLAN.DWG

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NO.	DATE	FILE
_		FOR BIDDING
	11/27/24	ADDENDUM NO. 1

DRAWN BY: JL
CHECKED BY: JL

RELEASED BY: TB

DRAWING SCALE
HORIZONTAL: 1" = 20' VERTICAL: --OR AS NOTED
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DATUM
HORIZONTAL: NAD83 VERTICAL: NAVD88

GRAPHIC SCALE

PROJECT LOCATION

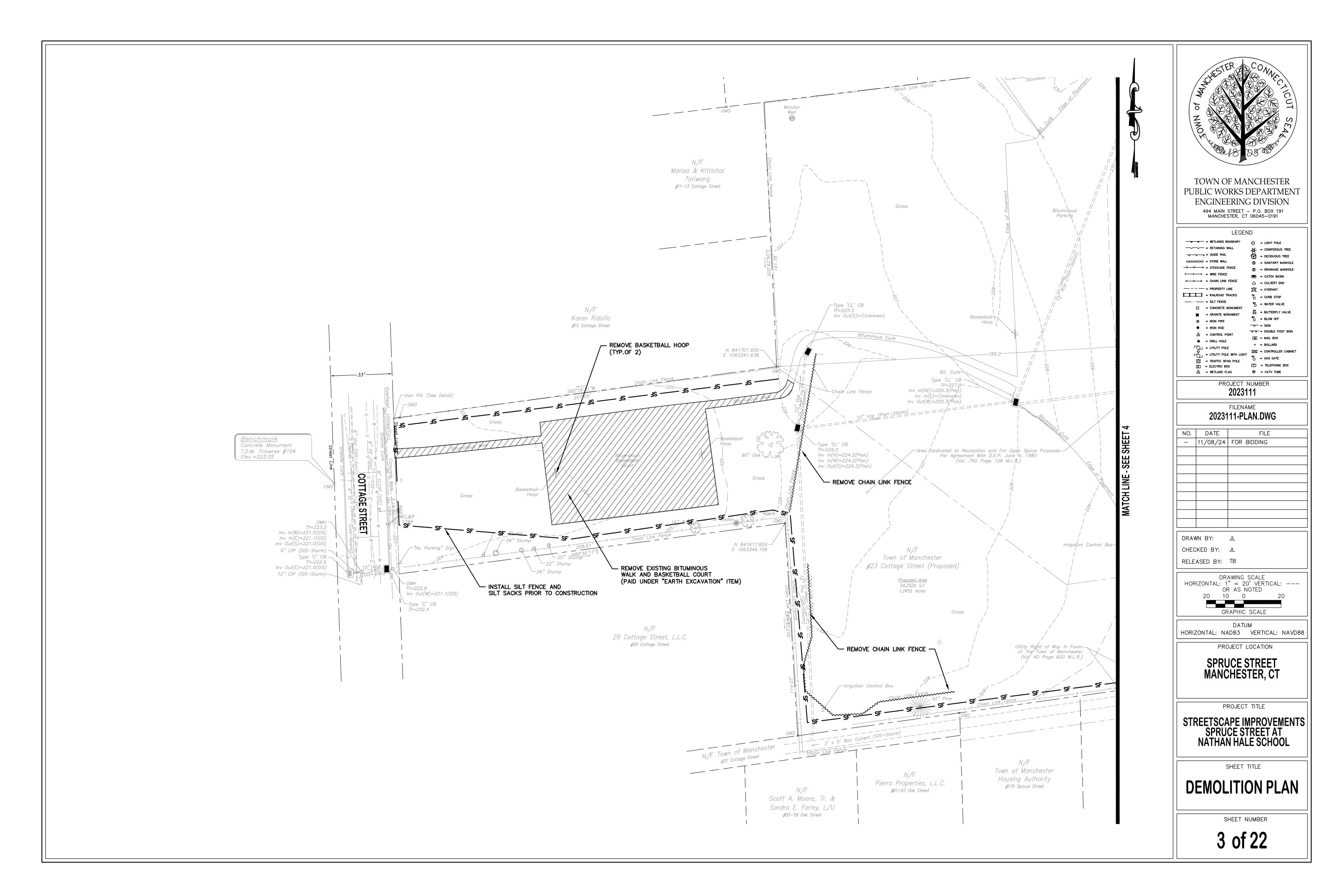
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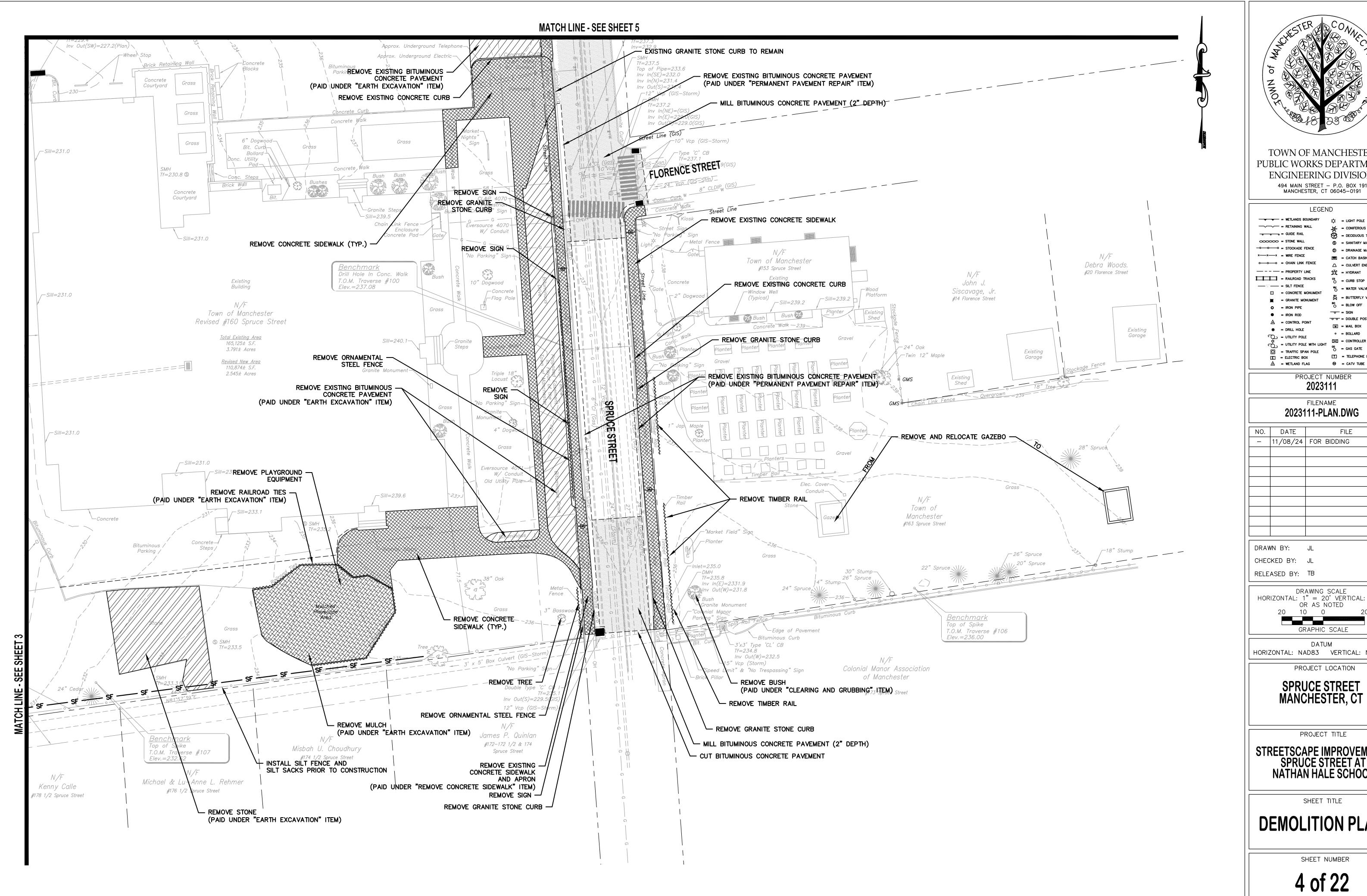
PROJECT TITLE

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

TYPICAL SECTION AND NOTES

SHEET NUMBER





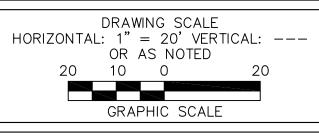


TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION** 494 MAIN STREET — P.O. BOX 191 MANCHESTER, CT 06045—0191

= WETLANDS BOUNDARY	C = LIGHT POLE
= RETAINING WALL	= CONIFEROUS TREE
- o o o o GUIDE RAIL	= DECIDUOUS TREE
∞∞∞ = STONE WALL	S = SANITARY MANHOLE
= STOCKADE FENCE	= DRAINAGE MANHOLE
×× = WIRE FENCE	= CATCH BASIN
o	
= PROPERTY LINE	Y = HYDRANT
= RAILROAD TRACKS	CS = CURB STOP
	WV = WATER VALVE
= CONCRETE MONUMENT	-
■ = GRANITE MONUMENT	BV = BUTTERFLY VALVE
O = IRON PIPE	O = BLOW OFF
● = IRON ROD	o = SIGN
A	o o = DOUBLE POST SIGN
△ = CONTROL POINT	M = MAIL BOX
= DRILL HOLE	W - WAIL BOX
UTILITY POLE	• = BOLLARD
LITHERY POLE WITH LIGHT	= CONTROLLER CABINET
= UTILITY POLE WITH LIGHT	G = GAS GATE
= TRAFFIC SPAN POLE	O = GAS GATE
E = ELECTRIC BOX	T = TELEPHONE BOX

PROJECT NUMBER

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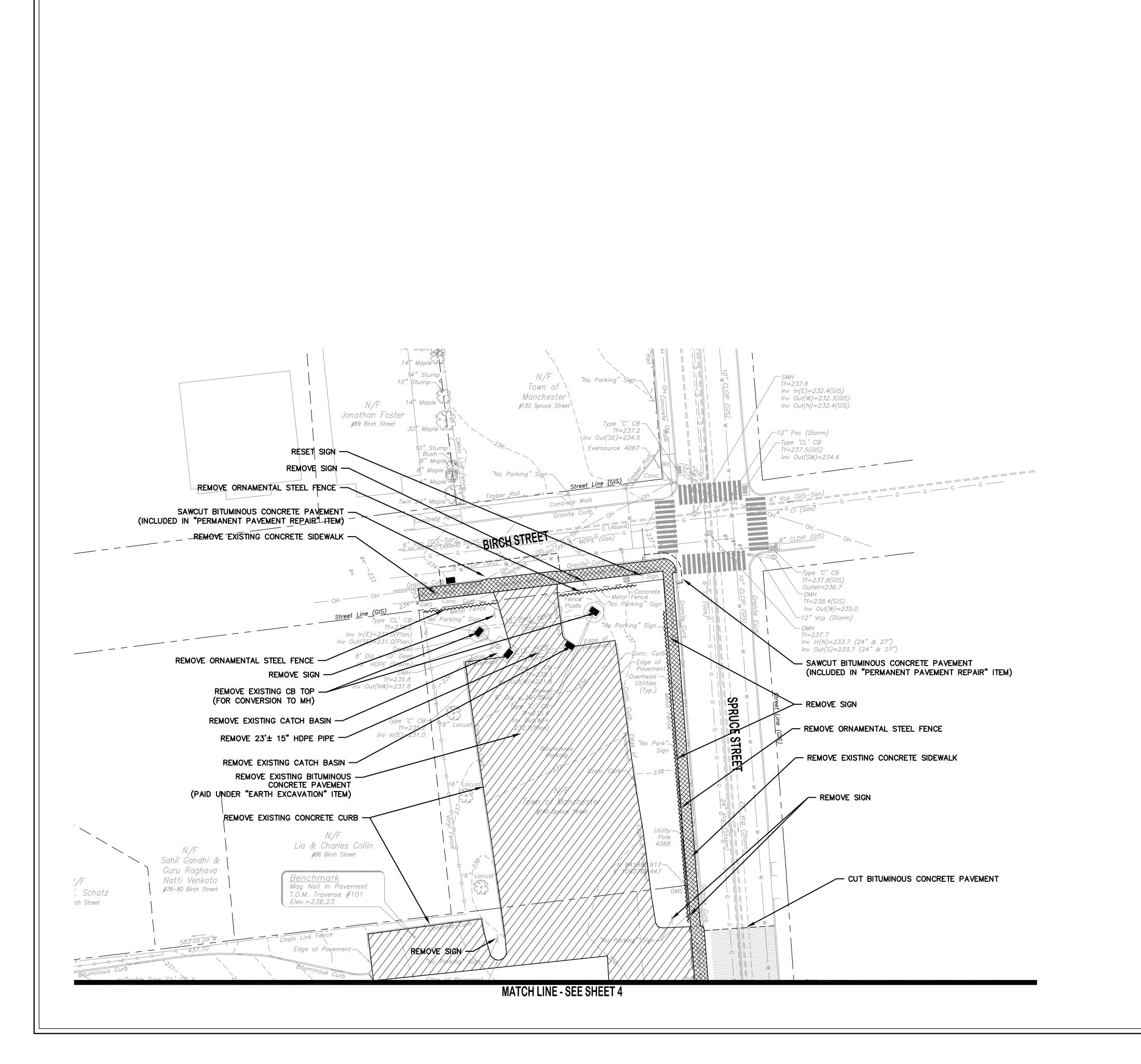
PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

DEMOLITION PLAN

SHEET NUMBER





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET — P.O. BOX 191 MANCHESTER, CT 06045—0191

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● = IRON ROD	-	= SIGN
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WV = WATER VALVE BV = BUTTERFLY VALVE O = BLOW OFF - SIGN o o = DOUBLE POST SIGN M = MAIL BOX = DRILL HOLE

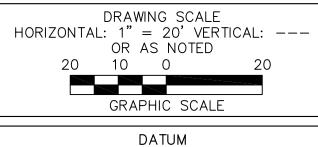
• = BOLLARD UTILITY POLE = CONTROLLER CABINET = UTILITY POLE WITH LIGHT ${\overset{\mathsf{GG}}{\mathsf{O}}} = \mathsf{GAS} \; \mathsf{GATE}$ = TRAFFIC SPAN POLE E = ELECTRIC BOX T = TELEPHONE BOX = WETLAND FLAG ⊕ CATV TUBE

2023111 FILENAME

PROJECT NUMBER

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NO.	DATE	FILE
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DRAWN BY: JL CHECKED BY: JL RELEASED BY: TB



HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

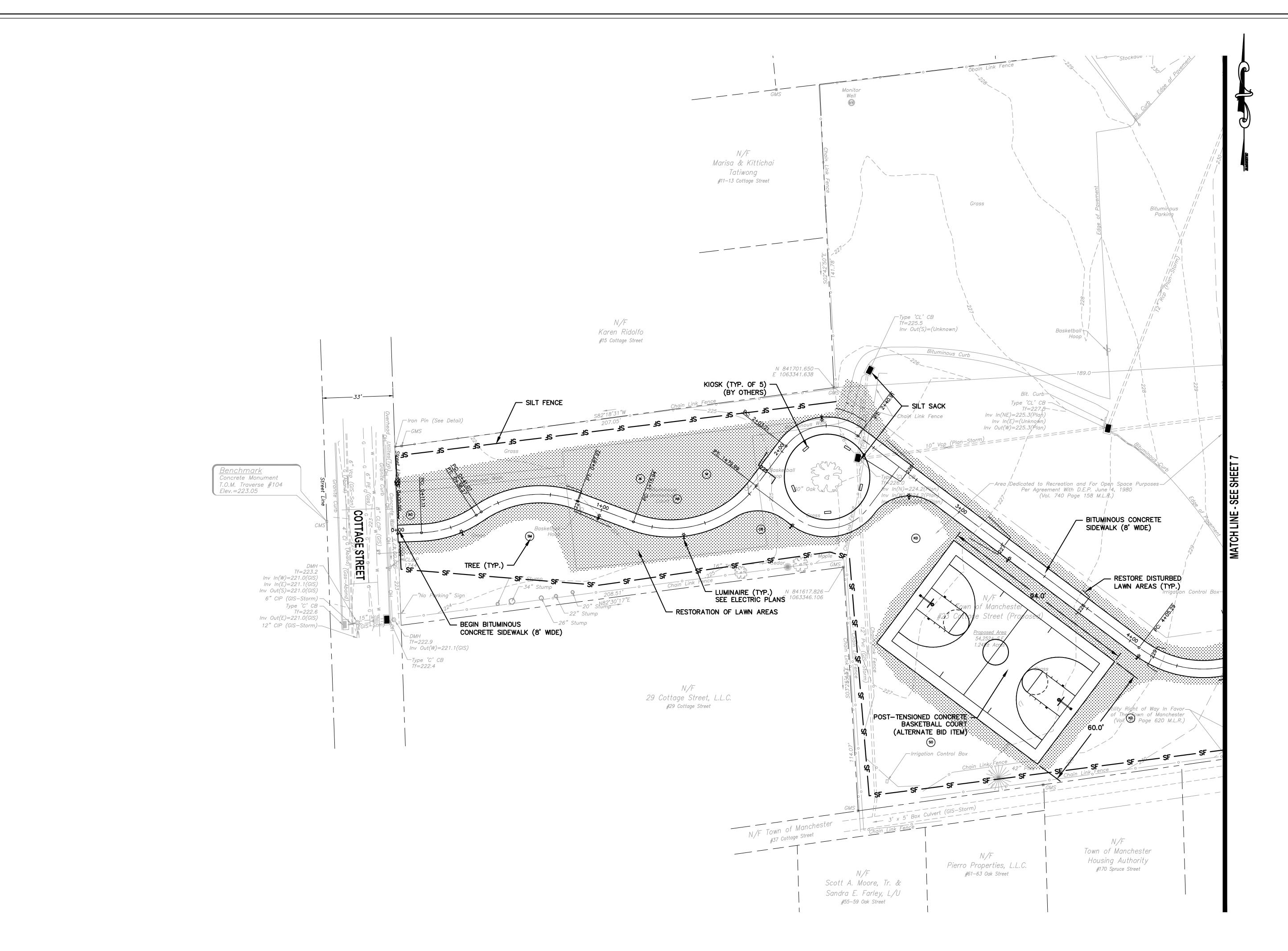
PROJECT TITLE

STREETSCAPE IMPROVEMENTS SPRUCE STREET AT NATHAN HALE SCHOOL

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER





TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

LEGEND

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	= CONCRETE MONUMENT			
_	= GRANITE MONUMENT	BV ⊠		ERFLY VALVE
•	= IRON PIPE	ВО	= BLOV	V OFF
•	= IRON ROD	-	= SIGN	
A	= CONTROL POINT	00	= DOUE	BLE POST SIG
	= DRILL HOLE	M	= MAIL	BOX
	= UTILITY POLE	۰	= BOLL	ARD
		\boxtimes	= CONT	ROLLER CABI
]	= UTILITY POLE WITH LIGHT	6	= GAS	GATE
	= TRAFFIC SPAN POLE			PHONE BOX
	= ELECTRIC BOX			
A	= WETLAND FLAG	60	= CAT	/ TUBE

PROJECT NUMBER 2023111

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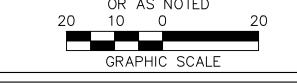
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DRAWING SCALE

HORIZONTAL: 1" = 20' VERTICAL: --
OR AS NOTED

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DRAWN BY: JL



DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

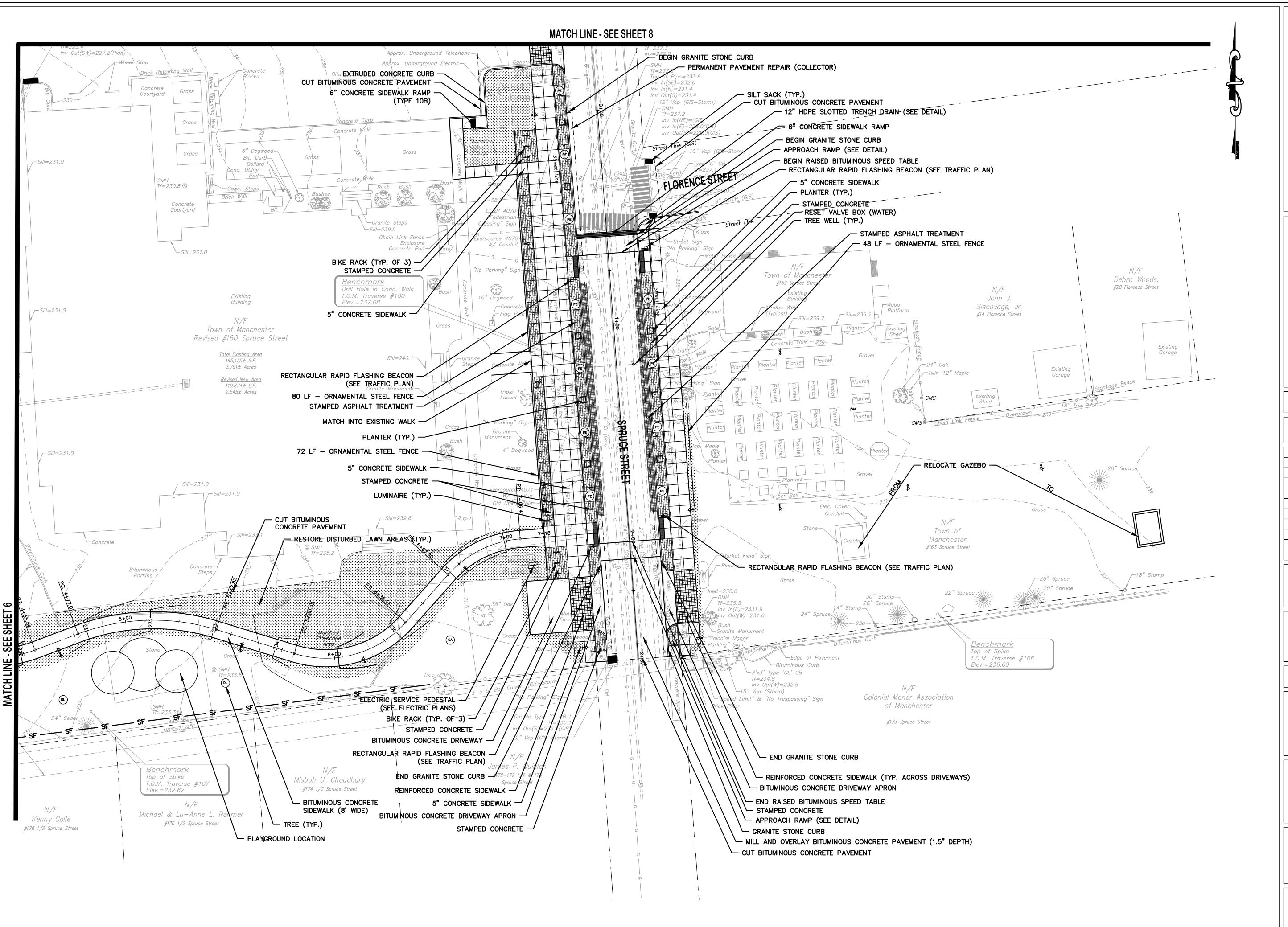
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STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

SHEET TITLE

SITE PLAN

SHEET NUMBER





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PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

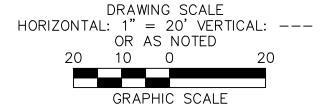
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UTILITY POLE UTILITY POLE WITH LIGHT UTILITY POLE WITH LIGHT UTILITY POLE WITH LIGHT UTILITY POLE WITH LIGHT UTILITY POLE E UTILITY POLE E UTILITY POLE UTILITY POLE WITH UTILI	© = BOLLARD CONTROLLER CABINET GO = GAS GATE T = TELEPHONE BOX O = CATV TUBE

PROJECT NUMBER 2023111

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PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

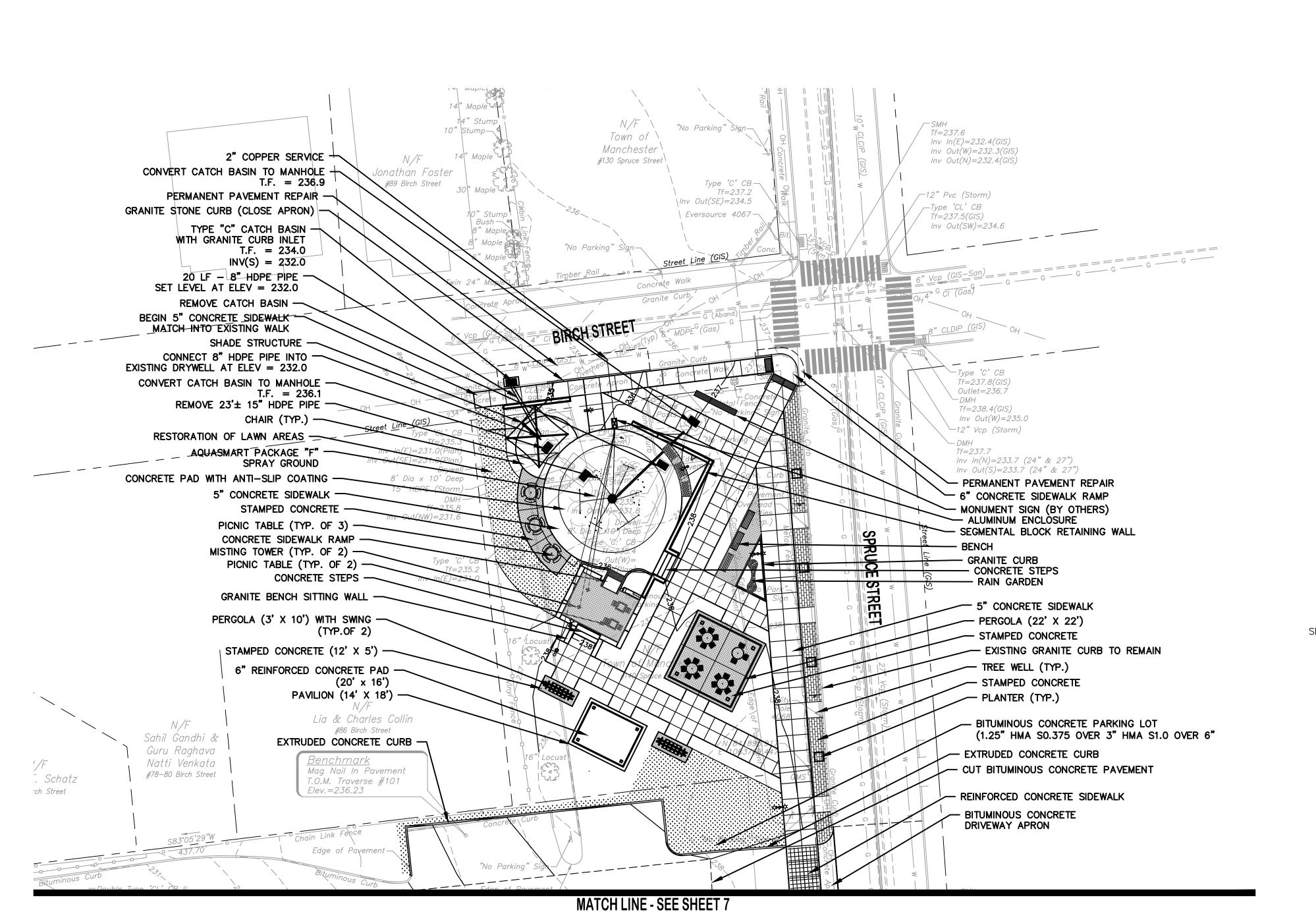
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STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

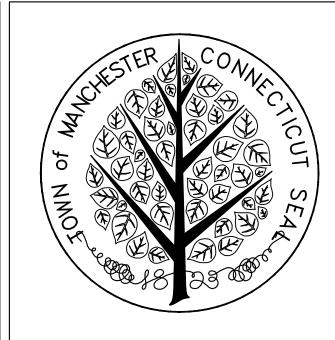
SHEET TITLE

SITE PLAN

SHEET NUMBER



SEE SHEET 11 FOR DETAILED PARK PLAN



TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

LEGEND = RETAINING WALL = CONIFEROUS TREE - GUIDE RAIL = DECIDUOUS TREE ---- = STOCKADE FENC x---x = WIRE FENCE o---o---o = CHAIN LINK FENCE = CULVERT END ---- = PROPERTY LINE ₩ = HYDRANT = RAILROAD TRACKS CS = CURB STOP ----SF---- = SILT FENCE WV = WATER VALVE = CONCRETE MONUMENT BV = BUTTERFLY VALVE ■ = GRANITE MONUMENT O = BLOW OFF O = IRON PIPE = SIGN

■ IRON ROD

A = CONTROL POINT

B = DRILL HOLE

UTILITY POLE

UTILITY POLE WITH LIGHT

U = TRAFFIC SPAN POLE

E = ELECTRIC BOX

U = SIGN

U = DOUBLE POST SIGN

UM = MAIL BOX

UM = GAS GATE

UM = TELEPHONE BOX

FILENAME 2023111-PLAN.DWG

NO.	DATE	FILE
-	11/08/24	FOR BIDDING ADDENDUM NO. 1
	11/27/24	ADDENDUM NO. 1

DRAWN BY: JL
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DRAWING SCALE
HORIZONTAL: 1" = 20' VERTICAL: --OR AS NOTED
20 10 0 20
GRAPHIC SCALE

DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

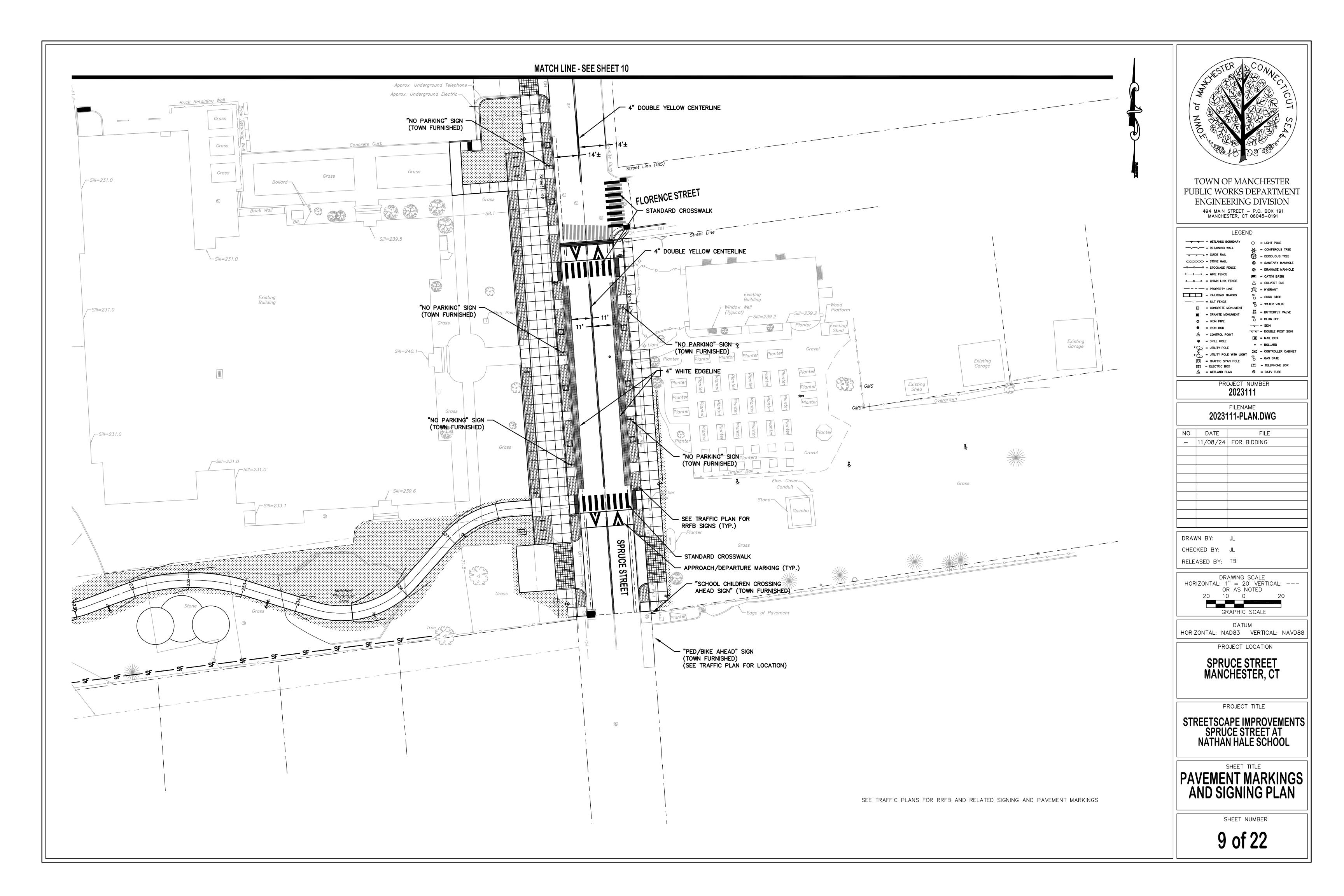
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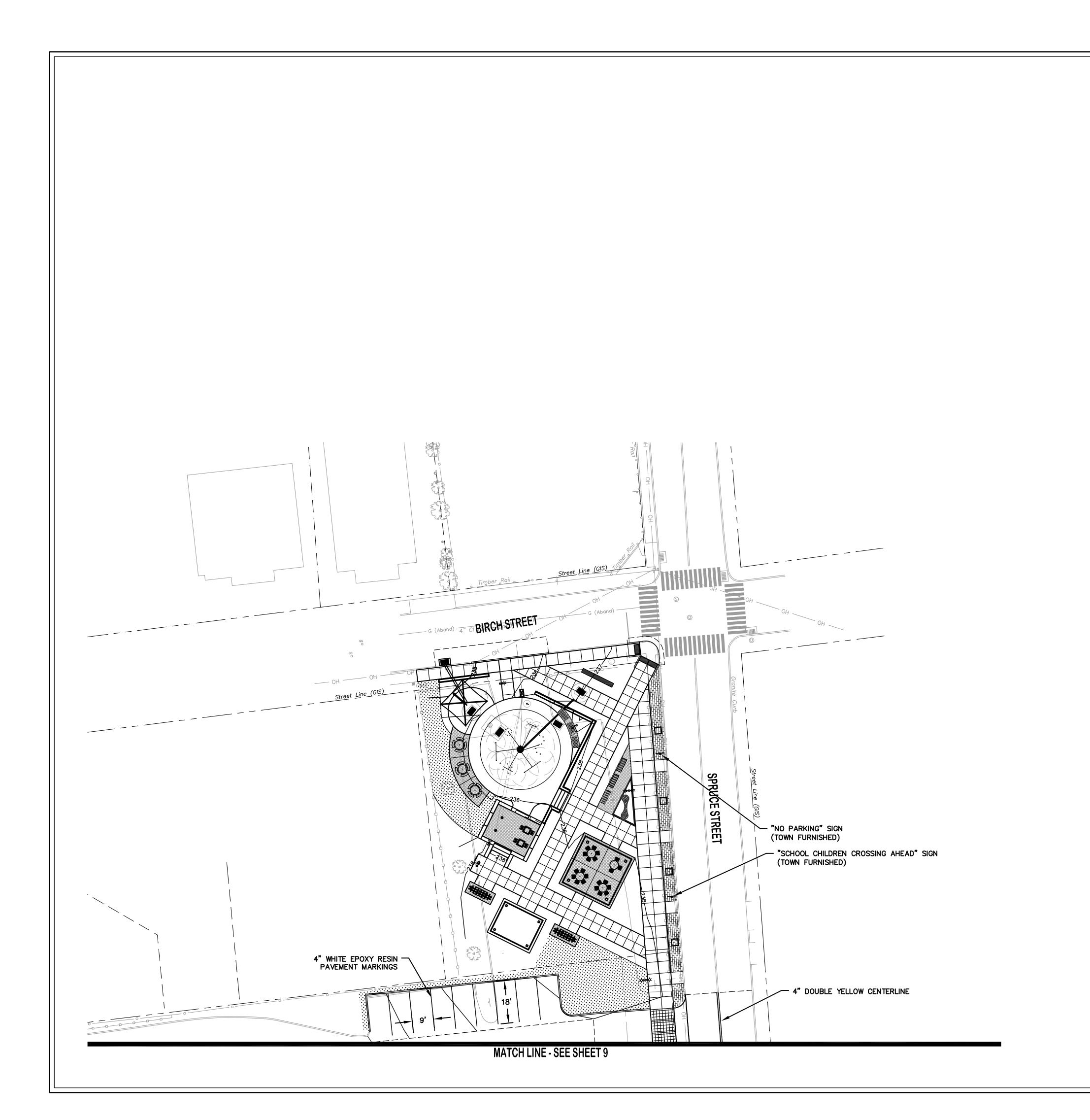
STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

SHEET TITLE

SITE PLAN

SHEET NUMBER







TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET — P.O. BOX 191 MANCHESTER, CT 06045—0191

LEGEND

= WETLANDS BOUNDARY	T = LIGHT POLE
= RETAINING WALL	= CONIFEROUS TREE
GUIDE RAIL	= DECIDUOUS TREE
○ STONE WALL	S = SANITARY MANHOLE
= STOCKADE FENCE	= DRAINAGE MANHOLE
×× = WIRE FENCE	= CATCH BASIN
o	
= PROPERTY LINE	💥 = HYDRANT
= RAILROAD TRACKS	CS = CURB STOP
	WV = WATER VALVE
= CONCRETE MONUMENT	
■ GRANITE MONUMENT	BV = BUTTERFLY VALVE
• = IRON PIPE	O = BLOW OFF
= IRON ROD	o = SIGN

₩ = HYDRANT O = CURB STOP WV = WATER VALVE BV = BUTTERFLY VALVE O = BLOW OFF o = SIGN

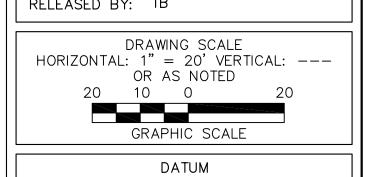
o o = DOUBLE POST SIGN M = MAIL BOX = DRILL HOLE • = BOLLARD UTILITY POLE $_{O}^{GG}$ = GAS GATE = TRAFFIC SPAN POLE T = TELEPHONE BOX E = ELECTRIC BOX = WETLAND FLAG ⊕ CATV TUBE

> PROJECT NUMBER 2023111

FILENAME 2023111-PLAN.DWG

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HORIZONTAL: NAD83 VERTICAL: NAVD88

SPRUCE STREET MANCHESTER, CT

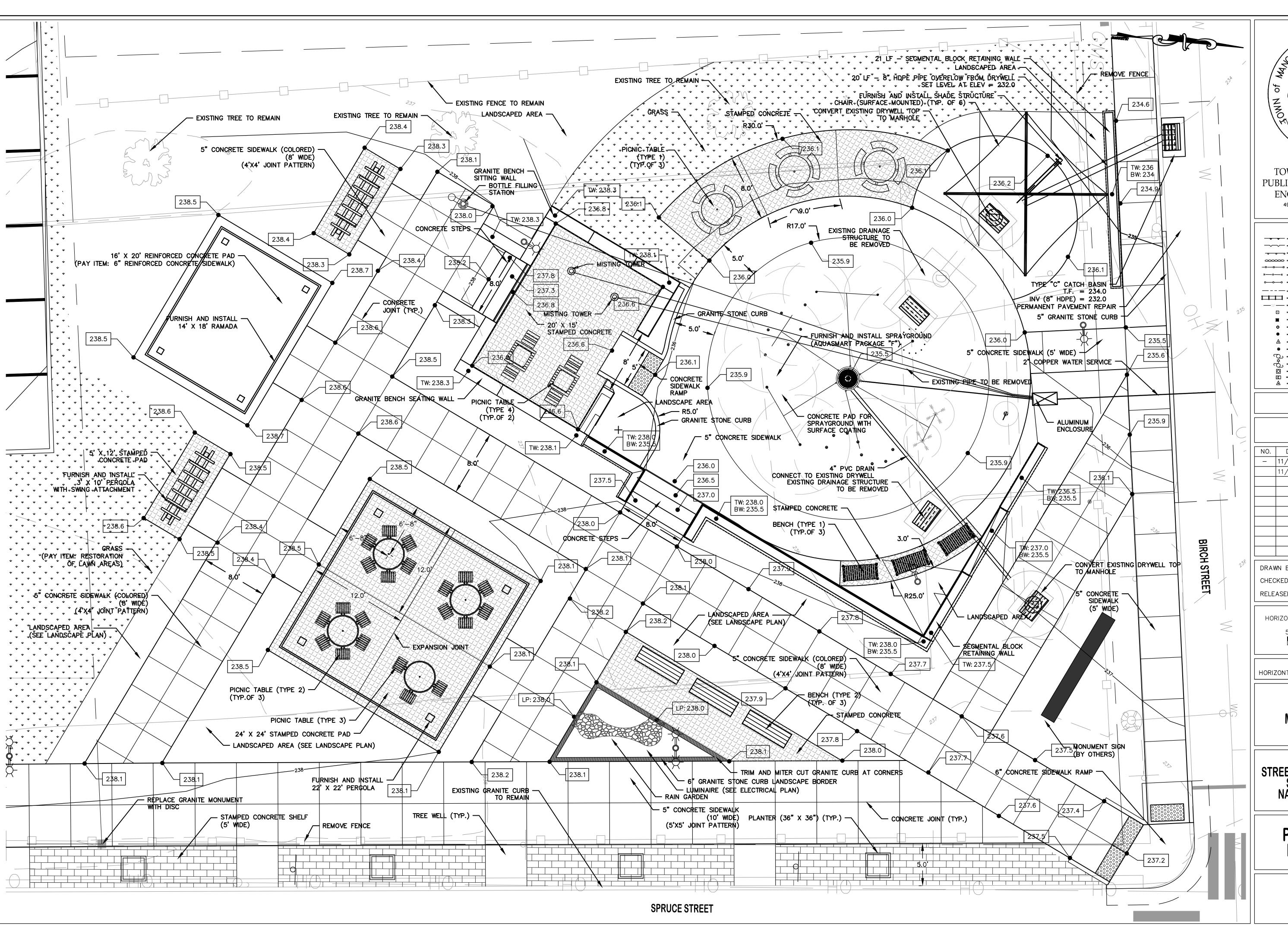
PROJECT LOCATION

PROJECT TITLE

STREETSCAPE IMPROVEMENTS SPRUCE STREET AT NATHAN HALE SCHOOL

PAVEMENT MARKINGS AND SIGNING PLAN

SHEET NUMBER





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

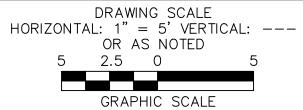
	LEGEN	עו	
	- = WETLANDS BOUNDARY	\Rightarrow	= LIGHT POLE
	= RETAINING WALL	₹	= CONIFEROUS TREE
- · · ·	= GUIDE RAIL	8	= DECIDUOUS TREE
	= STONE WALL	<u>s</u>	= SANITARY MANHOLE
	= STOCKADE FENCE	0	= DRAINAGE MANHOLE
xx	= WIRE FENCE		= CATCH BASIN
	= CHAIN LINK FENCE	Δ	= CULVERT END
	= PROPERTY LINE	쐧	= HYDRANT
	= RAILROAD TRACKS	cs O	= CURB STOP
SF	= SILT FENCE	w	= WATER VALVE
	= CONCRETE MONUMENT	B¥	= BUTTERFLY VALVE
	= GRANITE MONUMENT	№	
0	= IRON PIPE	•	= BLOW OFF
•	= IRON ROD		= SIGN
A	= CONTROL POINT		- = DOUBLE POST SIGN
•	= DRILL HOLE	M	
ض ا	= UTILITY POLE	<u>.</u>	= BOLLARD
	= UTILITY POLE WITH LIGHT	<u>∝</u>	= CONTROLLER CABINE
	= TRAFFIC SPAN POLE	0	= GAS GATE
Ē	= ELECTRIC BOX	I	= TELEPHONE BOX
	= WETLAND FLAG	69	= CATV TUBE

PROJECT NUMBER 2023111

FILENAME 2023111 DI AN DWG

2023111-PLAN.DWG					
NO.	DATE	FILE			
_	11/08/24	FOR BIDDING			
	11/27/24	ADDENDUM NO. 1			

DRAWN BY: CHECKED BY: JL RELEASED BY: TB



DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

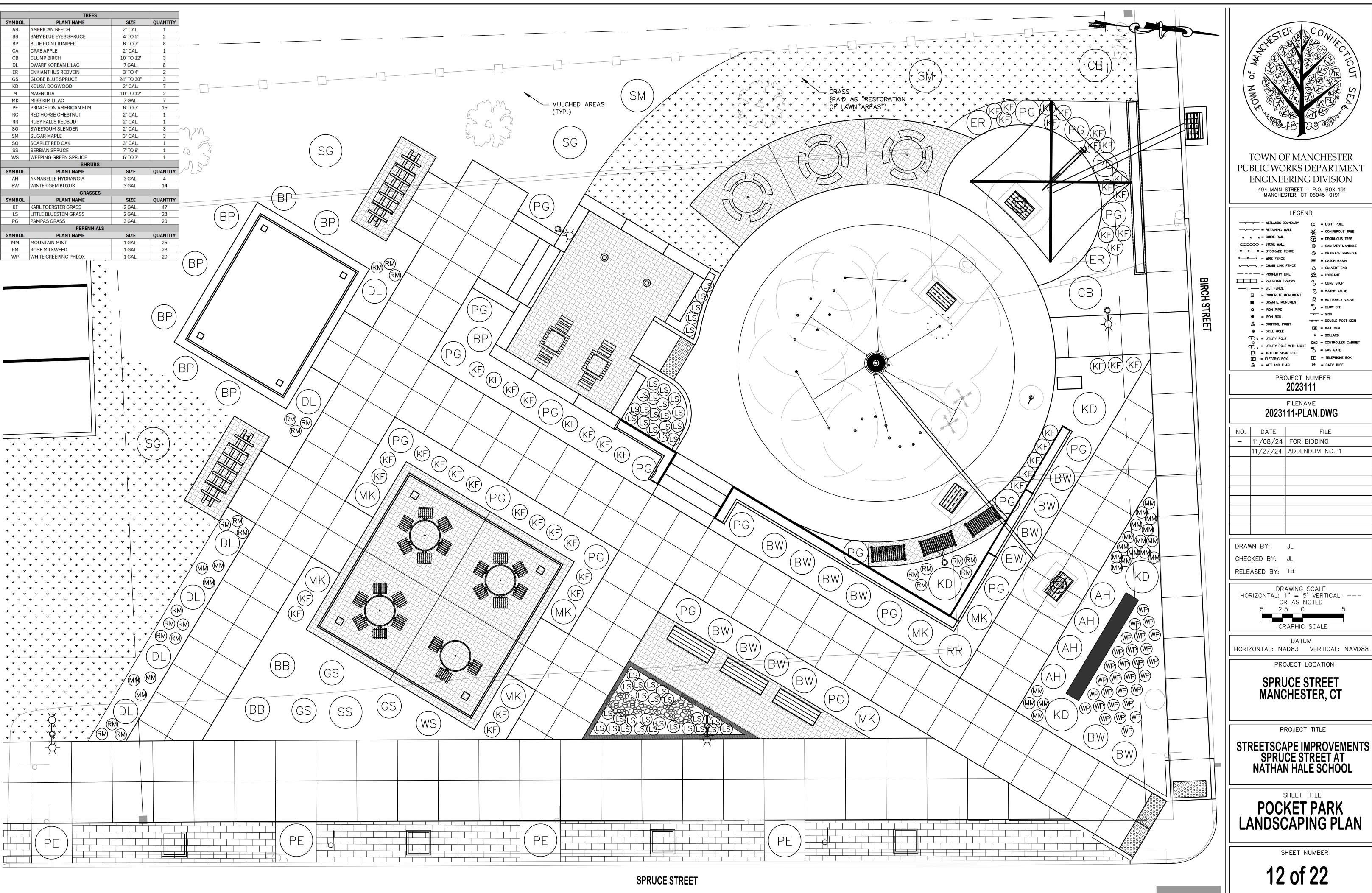
PROJECT TITLE

STREETSCAPE IMPROVEMENTS SPRUCE STREET AT NATHAN HALE SCHOOL

SHEET TITLE

POCKET PARK DETAIL PLAN

SHEET NUMBER





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET - P.O. BOX 191

= WETLANDS BOUNDARY	ф	= LIGHT POLE
= RETAINING WALL	¥	= CONIFEROUS
= GUIDE RAIL	8	= DECIDUOUS T
= STONE WALL	<u>s</u>	= SANITARY MA
= STOCKADE FENCE	0	= DRAINAGE MA
= WIRE FENCE		= CATCH BASIN
= CHAIN LINK FENCE	Δ	= CULVERT END
= PROPERTY LINE	쐧	= HYDRANT

- CS = CURB STOP BV = BUTTERFLY VALVE O = BLOW OFF o = SIGN
- M = MAIL BOX • = BOLLARD O = GAS GATET = TELEPHONE BOX ⊕ CATV TUBE

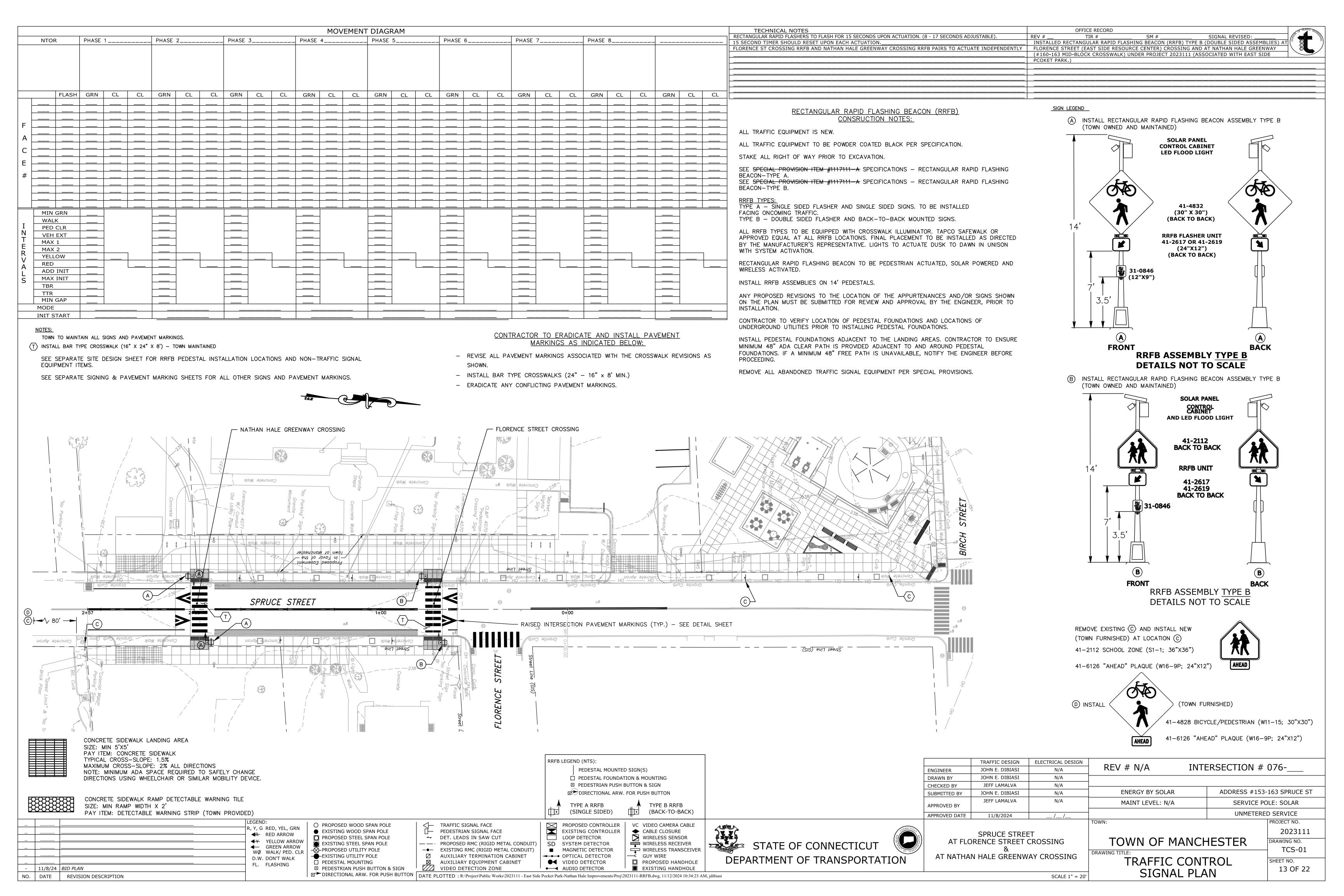
NO.	DATE	FILE
_	11/08/24	FOR BIDDING
	11/27/24	ADDENDUM NO. 1
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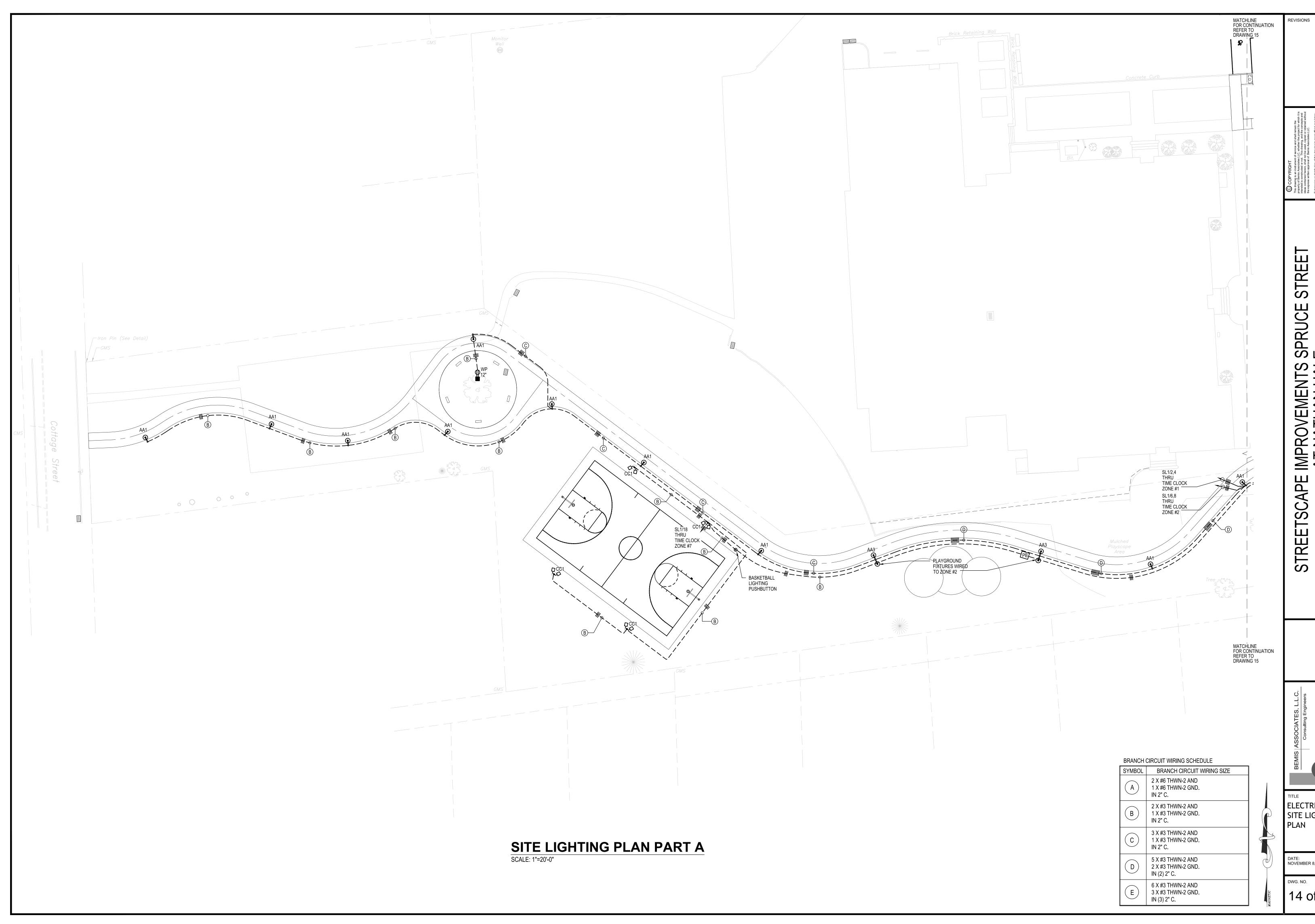
DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

POCKET PARK LANDSCAPING PLAN

SHEET NUMBER

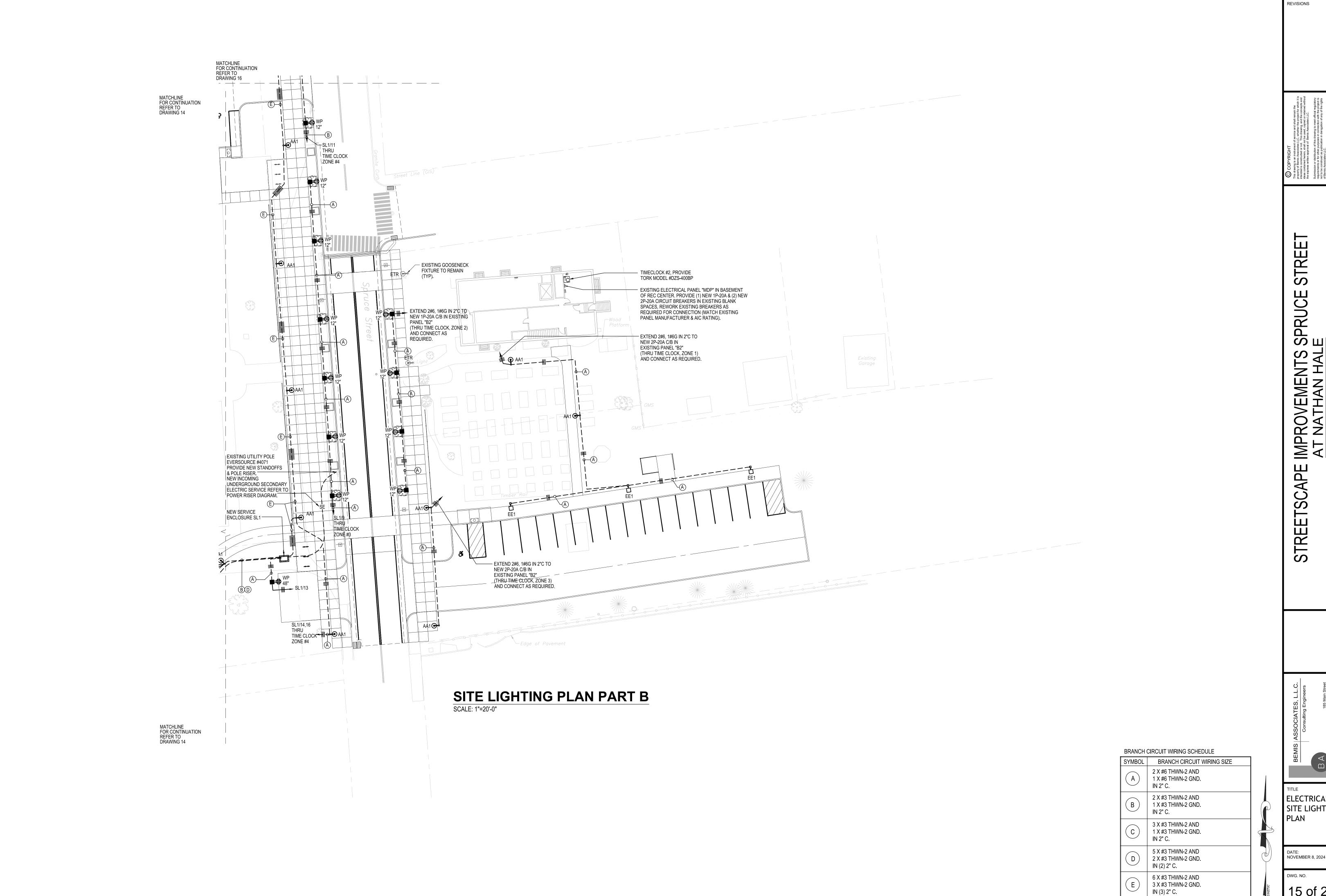




STREETSCAPE IMPROVEMENTS SPRUCE STRE AT NATHAN HALE SPRUCE STREET, MANCHESTER CONNECTICUT

ELECTRICAL SITE LIGHTING

DATE: NOVEMBER 8, 2024



PE IMPROVEMENTS S AT NATHAN HALE TREET, MANCHESTER (

ELECTRICAL SITE LIGHTING

DATE: NOVEMBER 8, 2024

REVISIONS

RING PROVIDE #8 SOLID OM INSIDE EDGE WATER LOW GRADE. EXTEND TO IEC ARTICLE 680.26. SL1710,12 THRU TIME CLOCK ZONE #5 PARK SIDE FIXTURES WIRED TO ZONE 5 (TYP). MATCHLINE FOR CONTINUATION REFER TO DRAWING 15 MATCHLINE
FOR CONTINUATION
REFER TO
DRAWING 15

SITE LIGHTING PLAN PART C SCALE: 1"=20'-0"

BRANCH CIRCUIT WIRING SCHEDULE				
SYMBOL	BRANCH CIRCUIT WIRING SIZE			
A	2 X #6 THWN-2 AND 1 X #6 THWN-2 GND. IN 2" C.			
В	2 X #3 THWN-2 AND 1 X #3 THWN-2 GND. IN 2" C.			
С	3 X #3 THWN-2 AND 1 X #3 THWN-2 GND. IN 2" C.			
D	5 X #3 THWN-2 AND 2 X #3 THWN-2 GND. IN (2) 2" C.			
E	6 X #3 THWN-2 AND 3 X #3 THWN-2 GND. IN (3) 2" C.			

BRANCH CIRCUIT WIRING SCHEDULE				
SYMBOL	BRANCH CIRCUIT WIRING SIZE			
A	2 X #6 THWN-2 AND 1 X #6 THWN-2 GND. IN 2" C.			
В	2 X #3 THWN-2 AND 1 X #3 THWN-2 GND. IN 2" C.			
С	3 X #3 THWN-2 AND 1 X #3 THWN-2 GND. IN 2" C.			
D	5 X #3 THWN-2 AND 2 X #3 THWN-2 GND. IN (2) 2" C.			
E	6 X #3 THWN-2 AND 3 X #3 THWN-2 GND. IN (3) 2" C.			
	-			

ELECTRICAL SITE LIGHTING

DATE: NOVEMBER 8, 2024

GENERAL NOTES

- 1 THE CONTRACTOR SHALL FIELD VERIFY AND OBTAIN ALL NECESSARY DIMENSIONS TO COORDINATE WORK TO BE DONE.
- 2 FINISHED WORK: THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION.
- 3- GOOD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY CONDUIT, JUNCTION BOX. FITTING OR MINOR DETAIL AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- 4 ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- CODES AND STANDARDS COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS WHEREVER APPLICABLE INCLUDING THE FOLLOWING: 2022 AMENDMENT TO THE 2022 CONNECTICUT STATE BUILDING CODE SUPPLEMENT, 2022 INTERNATIONAL BUILDING CODE, 2020 NATIONAL ELECTRICAL CODE, ILLUMINATING ENGINEERING SOCIETY LIGHTING HANDBOOK, UNDERWRITERS LABORATORIES, NEMA STANDARDS.
- 6 NOTE THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL EQUIPMENT AND SYSTEMS, WITHOUT SHOWING EVERY DETAIL AND FITTING.
- 7 THE NUMBER OF WIRES ON A CONDUIT RUN IS INDICATED ON THE DRAWINGS BY CROSS LINES ON THE CONDUITRUNS. PROVIDE CODE-SIZED CONDUIT FOR THE NUMBER AND SIZE OF WIRES UNLESS A LARGER SIZE IS SHOWN ON THE DRAWINGS. MINIMUM CONDUIT SIZE
- 8 BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS HAS BEEN DESIGNED FOR MAXIMUM ECONOMY CONSISTENT WITH ADEQUATE SIZING FOR VOLTAGE DROPS, CIRCUIT AMPACITIES, AND OTHER CONSIDERATIONS. INSTALL THE WIRING WITH CIRCUITS ARRANGED AS SHOWN ON THE DRAWINGS, EXCEPT AS APPROVED IN ADVANCE BY THE ARCHITECT AND ENGINEER. DO NOT MAKE CHANGES WITHOUT PRIOR APPROVAL.
- PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH 120V AND 208V SINGLE PHASE CIRCUIT. DO NOT USE A COMMON NEUTRAL FOR GROUPS OF CIRCUITS. PROVIDE A SEPARATE GROUND WIRE FOR EACH CIRCUIT BACK TO THE RESPECTIVE PANEL GROUND. IF MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ONE CONDUIT THEY SHALL BE DERATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. DO NOT INSTALL MORE THAN THREE 30 AMP SINGLE PHASE OR FOUR 20 AMP SINGLE PHASE CIRCUITS IN THE SAME CONDUIT. PROVIDE A DEDICATED CONDUIT FOR EACH 3-PHASE CIRCUIT. DO NOT MIX LIGHTING AND POWER CIRCUITS IN THE SAME CONDUIT.

DRAWING LEGEND						
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION			
••	FULL CUTOFF DECORATIVE LED GOOSENECK LIGHTING FIXTURE MOUNTED ON 12' ORNAMENTAL STEEL POLE WITH BANNER ARM. SUBLETTER INDICATES TYPE.	А	AMPS.			
⊶	DUAL HEAD FULL CUTOFF DECORATIVE LED GOOSENECK LIGHTING FIXTURE MOUNTED ON 12' ORNAMENTAL STEEL POLE WITH BANNER ARM. SUBLETTER INDICATES TYPE.	AFF C	ABOVE FINISHED FLOOR.			
Q.D	DUAL HEAD ADJUSTABLE LED BASKETBALL COURT LIGHTING FIXTURE.	GFCI	CONDUIT. GROUND FAULT CIRCUIT INTERRUPTER			
ᠳ	FULL CUTOFF LED SHOEBOX LIGHTING FIXTURE MOUNTED ON 20' SQUARE STEEL POLE.	GND	GROUND.			
□<	LED SIGN LIGHT WITH SHROUD	NTS RMC	NOT TO SCALE. RIGID METAL CONDUIT			
■	GFCI TYPE DUPLEX RECEPTACLE MOUNTED IN 12" PEDOC POWER PEDESTAL.	V	VOLTS.			
■●	GFCI TYPE QUAD RECEPTACLE MOUNTED IN 48" PEDOC POWER PEDESTAL.					
<u>r</u> c	TIME CLOCK					
РВ	FLUSH PULLBOX, SIZED PER NEC.					
200000	SITE ELECTRICAL ENCLOSURE WITH PAD (SEE DETAIL).					
⊚	BASKETBALL COURT PEDESTAL PUSH-BUTTON (SEE DETAIL).					
— — — — — — — — — — — — — — — — — — —	UNDERGROUND CONDUIT INCOMING UNDERGROUND SECONDARY ELECTRIC SERVICE.					
#	BRANCH CIRCUIT WIRING. CROSS LINES INDICATE NUMBER OF CONDUCTORS.					
	BRANCH CIRCUIT HOMERUN IN CONDUIT. CROSS LINES INDICATE NUMBER OF CONDUCTORS.					

PANEL #SL1 - CUTLER-HAMMER PANELBOARD PRL3A, SURFACE,

CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	20	1	CONTACTOR COIL	2	20	_	PATHWAY LIGHTING
3	20	1	PANEL RECEPTACLE	4	20	2	PATHWAT LIGHTING
5	20	1	ENCLOSURE HEATER	6	20	2	PLAY GROUND LIGHTING
7	20	1	ENCLOSURE LIGHT	8	20	2	PLAT GROUND LIGITING
9	20	1	TREE LIGHT REC	10	20	2	POCKET PARK LIGHTING
11	20	1	TREE LIGHT REC	12	20	2	T OOKETT AKK EIGHTING
13	20	1	BOLLARD REC	14	20	2	SIDEWALK LIGHTING
15	20	1	SIGN LIGHTS	16	20	2	SIDEWALK LIGHTING
17	20	1	POCKET PARK REC	18	20	1	BASKETBALL COURT LTS
19	20	1	POCKET PARK REC	20	20	1	SPARE
21	20	1	POCKET PARK REC	22	20	1	SPARE
23	20	1	POCKET PARK REC	24	20	1	SPARE
25	20	1	SPARE	26	20	1	SPARE
27	-	-	BLANK FOR FUTURE USE	28	•	-	BLANK FOR FUTURE USE
29	-	-	BLANK FOR FUTURE USE	30	•	•	BLANK FOR FUTURE USE
31	-	-	BLANK FOR FUTURE USE	32	•	•	BLANK FOR FUTURE USE
33	-	-	BLANK FOR FUTURE USE	34	-	-	BLANK FOR FUTURE USE
35	-	-	BLANK FOR FUTURE USE	36	-	-	BLANK FOR FUTURE USE
37	-	-	BLANK FOR FUTURE USE	38	-	-	BLANK FOR FUTURE USE
39	-	-	BLANK FOR FUTURE USE	40	-	-	BLANK FOR FUTURE USE

FINISHED GRADE. -

TAP CONNECTOR.

1 1/2" SCHEDULE 40

PVC CONDUIT DRAIN.

1) PROVIDE WITH SILVER PLATE COPPER BUS BARS AND COPPER GROUND BAR. PROVIDE WITH BLACK FACE, WHITE CORE ENGRAVED NAMEPLATE.

11" X 18" X 36" GASKETED PULL BOX

RRRRRRR

PROVIDE MINIMUM 24" ROUND FREE

DRAINING GRAVEL SOAK-AWAY 60"

BELOW FINISHED GRADE.

CONDUIT.

PROVIDE MINIMUM 12" DEEP FREE

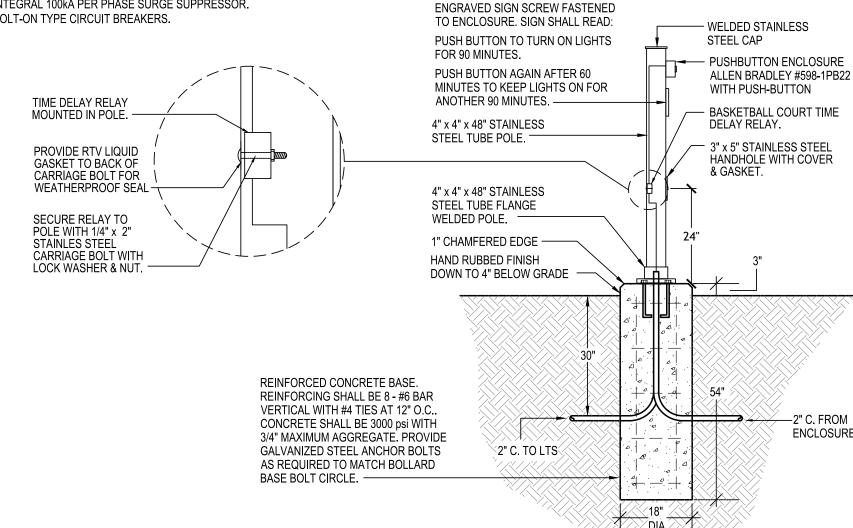
DRAINING GRAVEL BASE. GRAVEL TO

EXTEND A MINIMUM OF 12" BEYOND

EACH SIDE OF THE PULL BOX.

WITH OPEN BOTTOM AND HEAVY DUTY

- PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS
- AS ACTUALLY CONNECTED TO PANEL.
- 4) PROVIDE WITH INTEGRAL 100kA PER PHASE SURGE SUPPRESSOR. PROVIDE WITH BOLT-ON TYPE CIRCUIT BREAKERS.



- MOMENTARY CONTACT NEMA 4 FLUSH HEAD PUSH BUTTON SWITCH ALLEN-BRADLEY #800TA1A SEQUENCE OF OPERATION 1. TIME CLOCK SHALL ENABLE MANUAL CONTROL OF LIGHTING BETWEEN THE HOURS OF 4PM AND 10PM. NEUTRAL -- OFF-DFI AY TIMING 2. OPERATION OF MUSHROOM SWITCH RELAY AIROTRONICS SHALL ACTIVATE LIGHTS AND ALLOW #TGMB-2-1.5H-A-2-J CLOCK CKT LIGHTS TO REMAIN 'ON' FOR 90 MIN. AT SET DELAY FOR 90 MIN. AUTOMATICALLY TURN OFF. 20A, 1P C/B 3. IF THE MUSHROOM SWITCH IS PUSHED ANY TIME AFTER THE LIGHTS HAVE BEEN (TYPICAL)

LIGHT FIXTURE SCHEDULE

TWO (2) 22"W X 4"H X 35.3" EXTENSION HIGH OUTPUT AREA LUMINAIRES, EACH WITH DIE-CAST ALUMINUM HOUSING (BLACK FINISH), WEATHERTIGHT

DRIVER (120V), ANSI C136-41 7-PIN RECEPTACLE, AND TWIST LOCK LIGHTING CONTROLLER, PROVIDE WITH 20' HIGH, 5" SHAFT STRAIGHT SQUARE

23 3/8"L X 15"W X 4 1/2"H POLE MOUNT AREA LIGHT WITH DIE-CAST ALUMINUM HOUSING, POLYCARBONATE LENS, VACUUM-METALIZED

BUTTON TYPE PHOTOCELL INSTALLED IN ENCLOSURE

SPECULAR REFLECTOR, HIGH TEMPERATURE SILICONE GASKETING, TYPE 3 DISTRIBUTION, FIXED OUTPUT LED DRIVER (208V), AND HIGH

LED DRIVER COMPARTMENT, HIGH-PERFORMANCE HEAT SINK, ADJUSTABLE ARM MOUNT, ASYMMETRIC TYPE IV MEDIUM OPTICS, 0-10V DIMMING LED

DESCRIPTION, MANUFACTURE, AND MODEL #

WITH INTEGRAL HOUSE SIDE SHIELD MOUNTED ON 12' DECORATIVE POLE

ORNAMENTAL GOOSENECK LED LIGHTING FIXTURE OPTIC ROTATED 90°

BACK TO BACK ORNAMENTAL GOOSENECK LED LIGHTING FIXTURES

LUMEC 2X #DOS-24W16LED-4K-G3-LE2F-HS-SP2-DMG-YM-BKTX

WITH INTEGRAL HOUSE SIDE SHIELD MOUNTED ON 12' DECORATIVE POLE

WITH INTEGRAL HOUSE SIDE SHIELD MOUNTED ON 12' DECORATIVE POLE

DD1 GROUND MOUNTED SIGN LIGHT WITH DIE-CAST ALUMINUM HOUSING, GASKETED CAST

LUMEC #DOS-24W16LED-4K-G3-LE2F-UNV-HS-SP2-DMG-YM-BKTX

LUMEC #DOS-24W16LED-4K-G3-LE3F-HS-SP2-DMG-YM-BKTX

ORNAMENTAL GOOSENECK LED LIGHTING FIXTURE

MOUNTING ARM LUMEC #DOS-DBB

POLE LUMEC #SM6-N-12-BA-BKTX

MOUNTING ARM LUMEC #DOS-DBB

POLE LUMEC #SM6-N-12-BA-BKTX

MOUNTING ARM LUMEC DOS-DBB-2

STEEL POLE WITH 180° STEEL BRACKET MOUNT.

(2) CREE #OSQL-C-40L-50K7-4M-UL-NM-BK-20KV-R

EACH WITH ADJUSTABLE ARM MOUNT #OSQ-HO-AA,

AND TWIST LOCK LIGHTING CONTROLLER #TL7-B2. PROVIDE WITH POLE #SSS-5-7-20-CW-BS-OT-N-BK,

ALUMINUM SHROUD, FROSTED LENS, BLACK FINISH

POLE LUMEC #SM6-N-12-BA-BKTX

STEEL BRACKET #PB-2A5BK,

HADCO #WAM1D-F-G2-B

DURABILITY BRONZE FINISH.

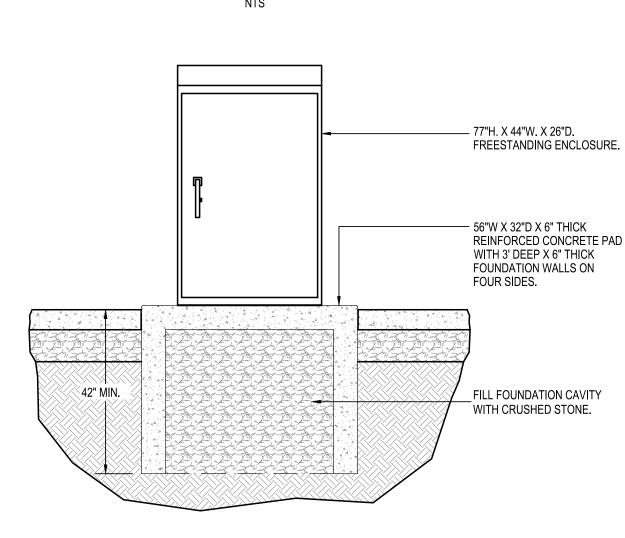
RAB #ALED-3T-150-208V.

AND ANCHOR BOLTS #SSS-5-AB-1-36.

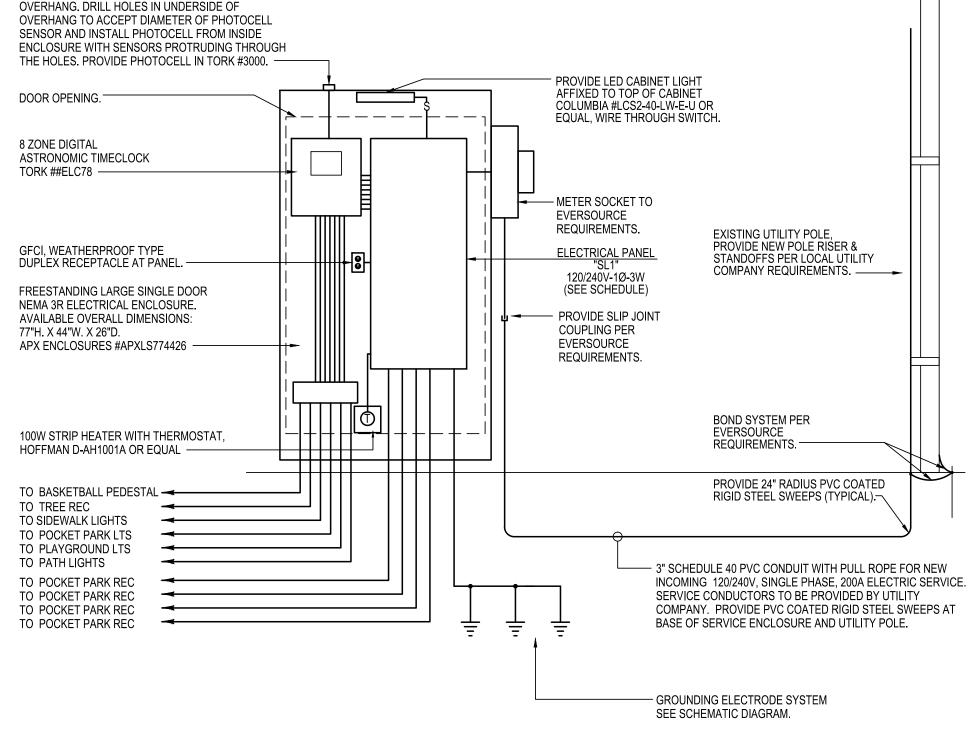
RESET FOR ANOTHER 90 MIN. **BASKETBALL COURT LIGHTING CONTROL SCHEMATIC**

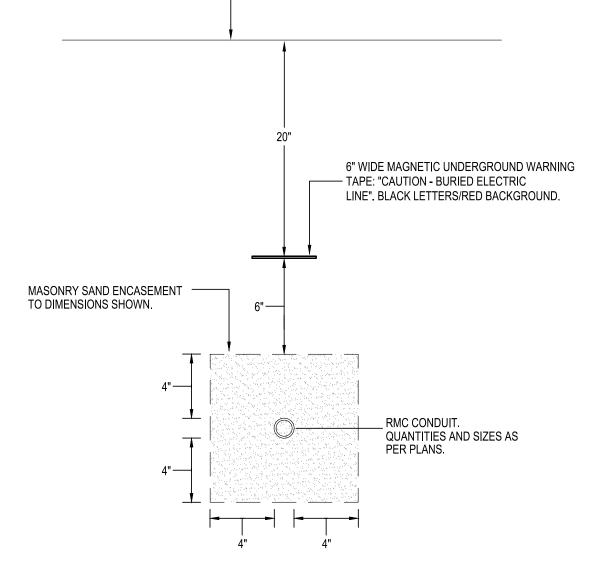
ENCLOSURE

BASKETBALL COURT PUSHBUTTON DETAIL



FREESTANDING ENCLOSURE ELEVATION	N
	_

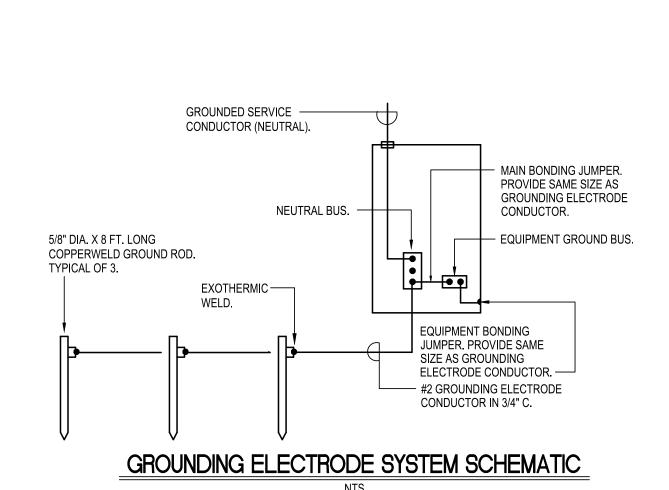




FINISHED PAVEMENT

OR GRADE.

UNDERGROUND CONDUIT DETAIL



PULL BOX DETAIL

NTS

POWER RISER DIAGRAM - SERVICE ENCLOSURE

0 ш \triangleleft α S

TR R

S

PRUC

S

REVISIONS

FIXTURE WATTS

29

472

10.6

LAMP

INCLUDED LED

2,523 LUMENS

INCLUDED LED

4,000K CCT,

2,496 LUMENS

INCLUDED LED

5,046 LUMENS

INCLUDED LED

5,000K CCT,

3,356 LUMENS

INCLUDED LED

4,000K CCT,

760 LUMENS

INCLUDED LED

10,157 LUMENS

ON FOR 60 MIN., THE TIME DELAY SHALL

5,000K CCT,

70 CRI

70 CRI

4,000K CCT,

70 CRI

70 CRI

4,000K CCT,

70 CRI

REMARKS

REFER TO DETAILS ON

DRAWING 24

DRAWING 24

DRAWING 24

DRAWING 24

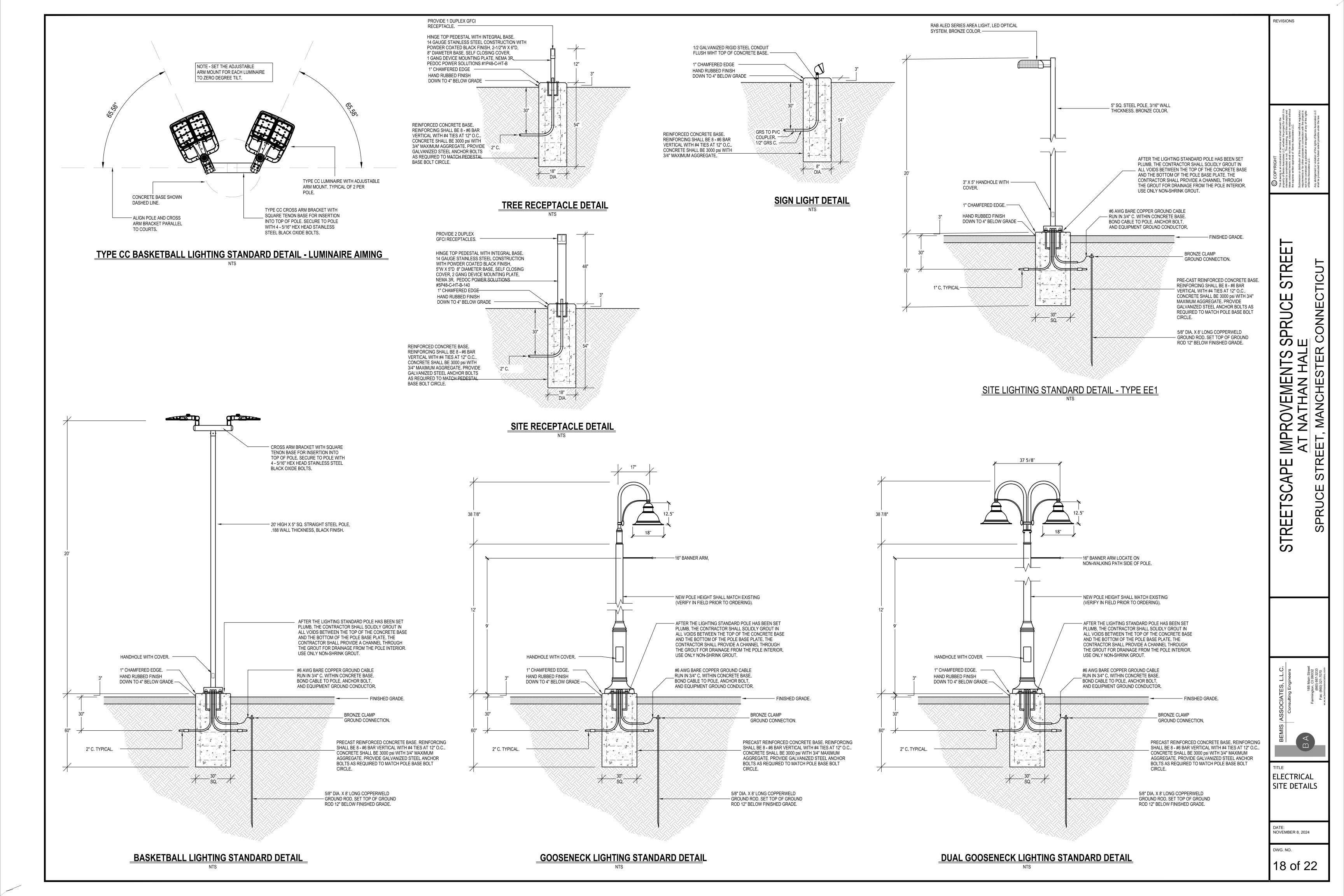
DRAWING 24

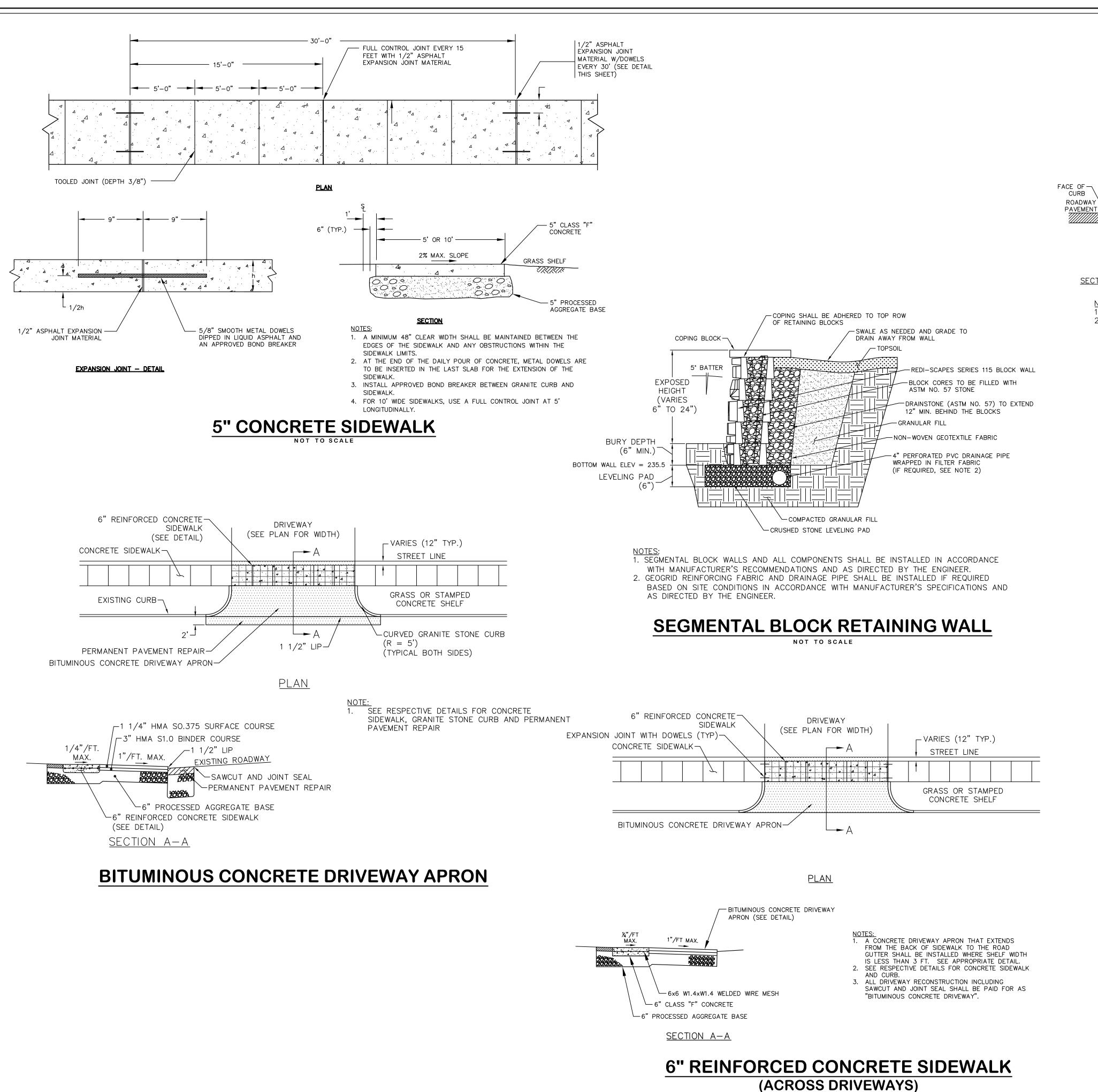
DRAWING 24

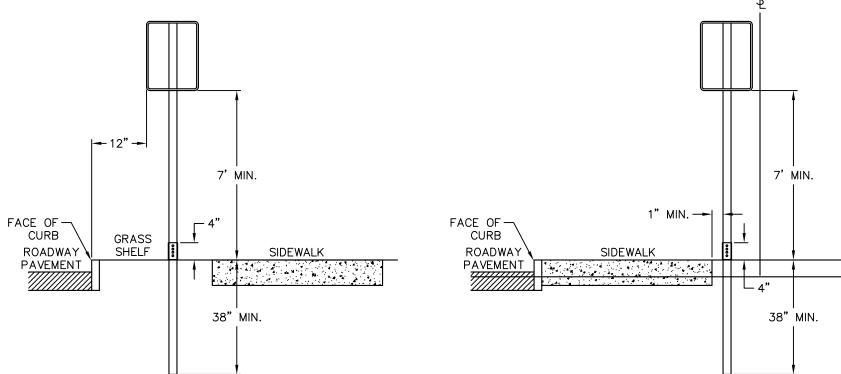
ELECTRICAL SYMBOLS, SCHEDULE NOTES & **DETAILS**

NOVEMBER 8, 2024

DWG. NO.







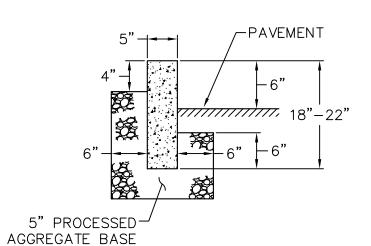
SECTION WITH SIDEWALK AND GRASS SHELF

SECTION WITH SIDEWALK AND NO GRASS SHELF

1. SUPPORTS SHALL BE METAL GALVANIZED STEEL POSTS WITH BREAKAWAY COUPLING SYSTEM. 2. WHERE POSTS CANNOT BE INSTALLED BEHIND SIDEWALK, THEY SHALL BE INSTALLED WITH THE EDGE OF THE SIGN 12" FROM FACE OF CURB.

NOT TO SCALE

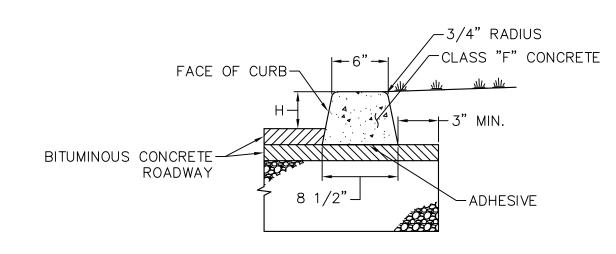
SIGN INSTALLATION - TYPICAL



GRANITE CURB NOTES:

- 1. MINIMUM LENGTH OF GRANITE CURB IS 4'-0". 2. GRANITE CURB SHALL BE FINISH-SAWN TOP AND SPLIT FACE JOINTED. 3. ALL GRANITE CURB JOINTS SHALL BE SET IN 6" OF CLASS "C" CONCRETE AND MORTAR SHALL BE APPLIED ALONG THE HEIGHT AND WIDTH OF ALL ABUTTING CURB FACES.
- 4. GRANITE CURB WITH A RADIUS OF 100' OR LESS SHALL BE BUILT OF RADIUS GRANITE CURB AND SET IN 6" OF CONCRETE ALONG THE ENTIRE LENGTH.
- 5. STRAIGHT AND RADIUS GRANITE CURB SHALL BE USED FOR TRANSITION CURB AT DRIVEWAYS AND SIDEWALK RAMPS WHERE APPLICABLE.
- 6. THE JOINTS OF RESET GRANITE STONE CURB SHALL BE SET IN 6" OF CONCRETE.

GRANITE STONE CURB CURVED GRANITE STONE CURB



NOTE: CURB HEIGHT (H) SHALL BE AS SPECIFIED ON THE PLANS.

EXTRUDED CONCRETE CURB

SHEET NUMBER

19 of 22

TOWN OF MANCHESTER

PUBLIC WORKS DEPARTMENT **ENGINEERING DIVISION** 494 MAIN STREET - P.O. BOX 191 MANCHESTER, CT 06045-0191

	., ,,	
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= CONCRETE MONUMENT	_	
= GRANITE MONUMENT		= BUTTERFLY VALV
= IRON PIPE	0	= BLOW OFF
= IRON ROD	-	= SIGN
= CONTROL POINT	00	= DOUBLE POST SI
	M	= MAIL BOX
- DRILL HOLE	•	= BOLLARD
	= WETLANDS BOUNDARY = RETAINING WALL = GUIDE RAIL = STONE WALL = STOCKADE FENCE = WIRE FENCE = CHAIN LINK FENCE = PROPERTY LINE = RAILROAD TRACKS = SILT FENCE = CONCRETE MONUMENT = GRANITE MONUMENT = IRON PIPE = IRON ROD = CONTROL POINT = DRILL HOLE	E RETAINING WALL E GUIDE RAIL E STONE WALL E STOCKADE FENCE WIRE FENCE CHAIN LINK FENCE PROPERTY LINE RAILROAD TRACKS SILT FENCE CONCRETE MONUMENT GRANITE MONUMENT IRON PIPE IRON PIPE IRON ROD CONTROL POINT DRILL HOLE

PROJECT NUMBER

= UTILITY POLE WITH LIGHT

E = ELECTRIC BOX

	FILENAME 2023111-PLAN.DWG				
NO.	DATE	FILE			
_	11/08/24	FOR BIDDING			
DRAV	DRAWN BY: JL				

RELEASED BY: TB

CHECKED BY: JL

HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION SPRUCE STREET

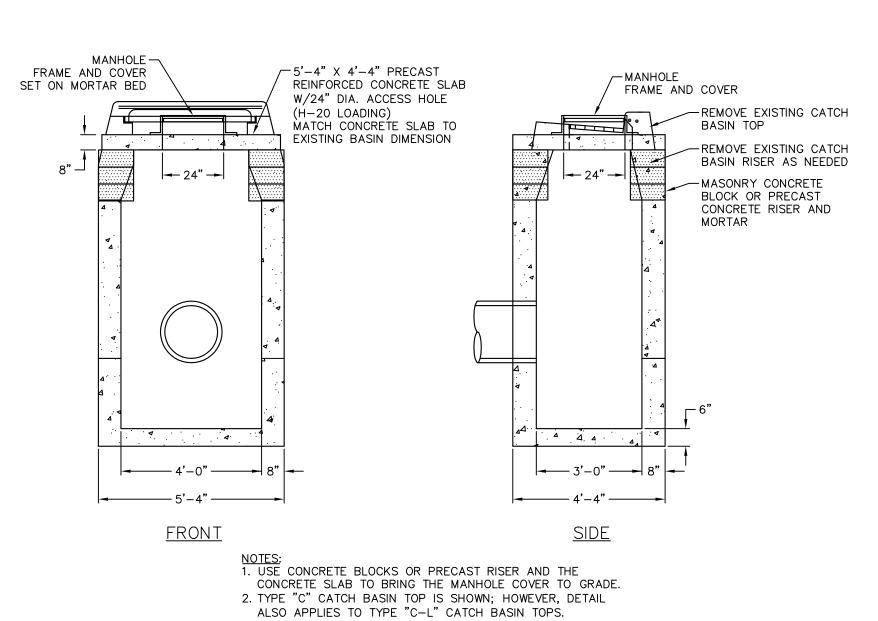
MANCHESTER, CT

PROJECT TITLE

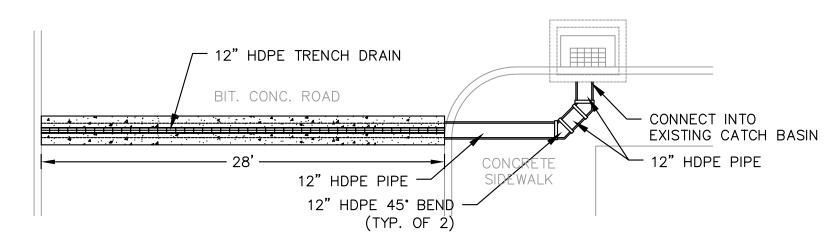
STREETSCAPE IMPROVEMENTS SPRUCE STREET AT NATHAN HALE SCHOOL

SHEET TITLE

DETAILS

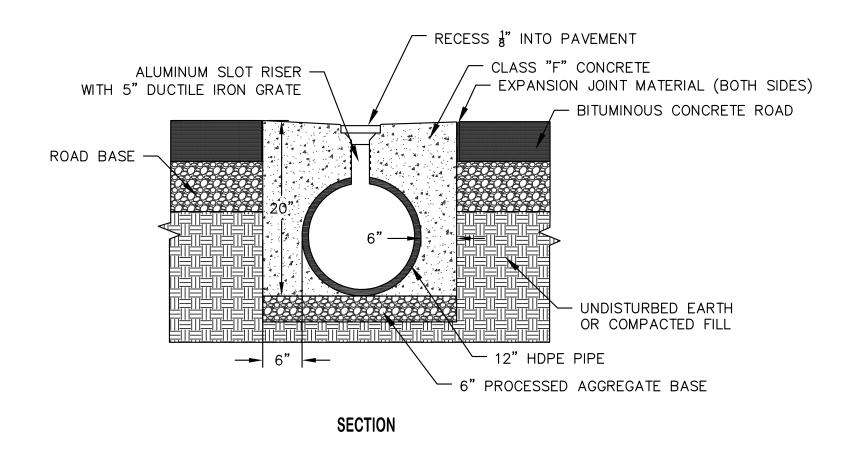


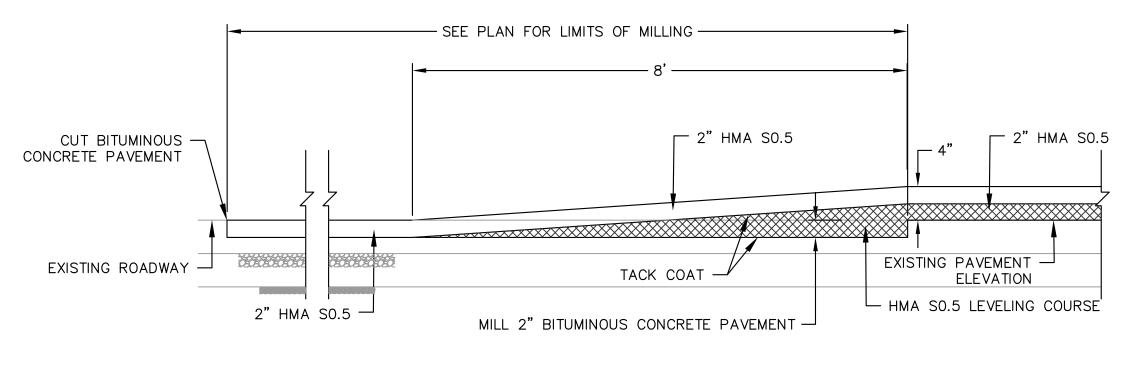
CONVERT CATCH BASIN TO MANHOLE NOT TO SCALE



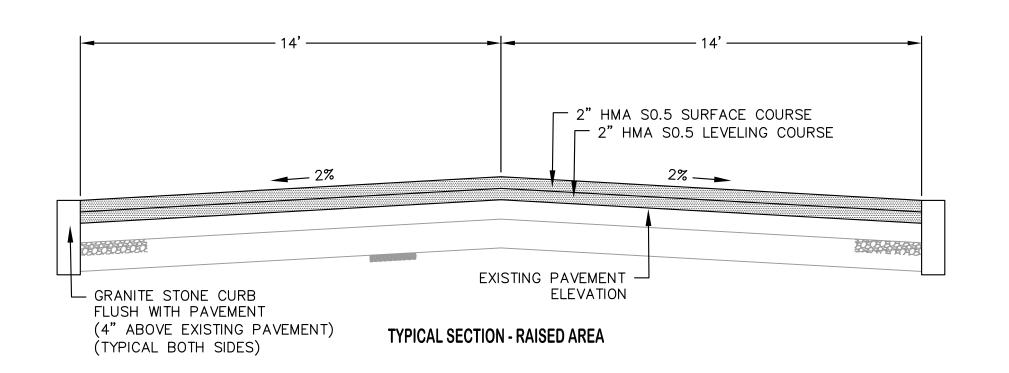
PLAN

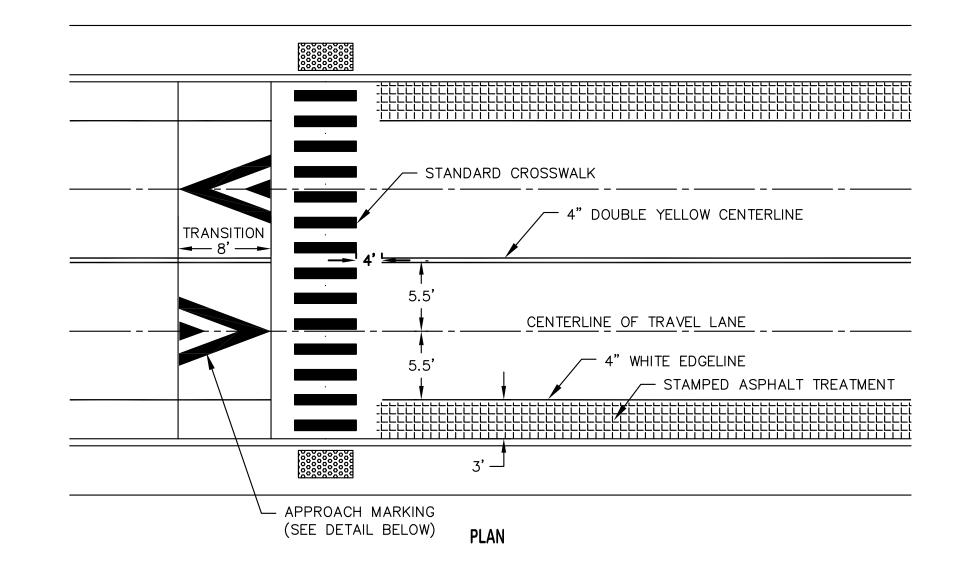
TRENCH DRAIN NOT TO SCALE

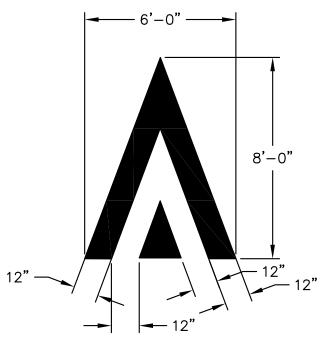




LONGITUDINAL TRANSITION AREA - HMA OVERLAY







APPROACH PAVEMENT MARKING DETAIL

RAISED INTERSECTION NOT TO SCALE



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET — P.O. BOX 191 MANCHESTER, CT 06045—0191

LEGEND		
= WETLANDS BOUNDARY	C = LIGHT POLE	
= RETAINING WALL	CONIFEROUS TREE	
GUIDE RAIL	= DECIDUOUS TREE	
∞ = STONE WALL	S = SANITARY MANHOLE	
= STOCKADE FENCE	D = DRAINAGE MANHOLE	
×——× = WIRE FENCE	= CATCH BASIN	
oo = CHAIN LINK FENCE		
	Y = HYDRANT	
= RAILROAD TRACKS	CS = CURB STOP	
	WV = WATER VALVE	
	BV = BUTTERFLY VALVE	
■ = GRANITE MONUMENT	BO = BLOW OFF	
O = IRON PIPE	= SIGN	
= IRON ROD	o o = DOUBLE POST SIGN	
△ = CONTROL POINT	M = MAIL BOX	
● = DRILL HOLE □ = UTILITY POLE	• = BOLLARD	
= UTILITY POLE WITH LIGHT	= CONTROLLER CABINET	
O = TRAFFIC SPAN POLE	O = GAS GATE	
E = ELECTRIC BOX	T = TELEPHONE BOX	
A = WETLAND FLAG	⊕ CATV TUBE	

PROJECT NUMBER 2023111

	2023111-PLAN.DWG			
NO.	NO. DATE		FILE	
_	11/08/24	FOR	BIDDING	
DRAV	VN BY:	JL		
CHEC	KED BY:	JL		
RELE	ASED BY:	TB		

DATUM HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

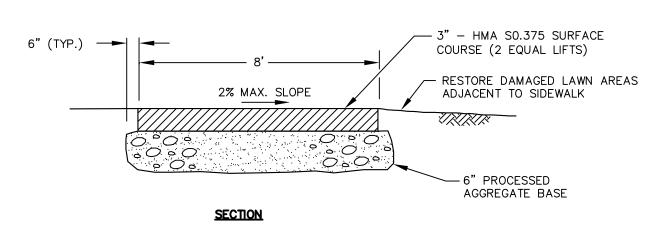
PROJECT TITLE

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

SHEET TITLE

DETAILS

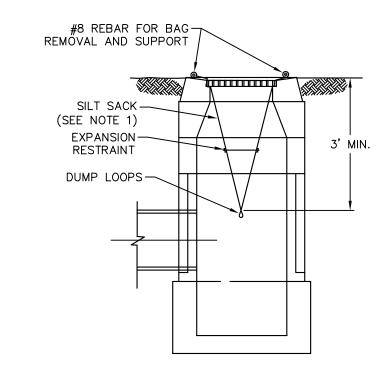
SHEET NUMBER



NOTES:

1. A MINIMUM 48" CLEAR WIDTH SHALL BE MAINTAINED BETWEEN THE EDGES OF THE SIDEWALK AND ANY OBSTRUCTIONS WITHIN THE SIDEWALK LIMITS.

BITUMINOUS CONCRETE SIDEWALK



NOTES:

1. SILT SACKS SHALL BE HI-FLOW SILTSACK® 'TYPE A' FOR TYPE
"C-L" CB TOPS AND 'TYPE B' WITH CURB DEFLECTORS FOR TYPE
"C" CB TOPS OR OTHER STRUCTURES WITH CURB INLETS AS
MANUFACTURED BY ACF ENVIRONMENTAL, INC OR APPROVED EQUAL.

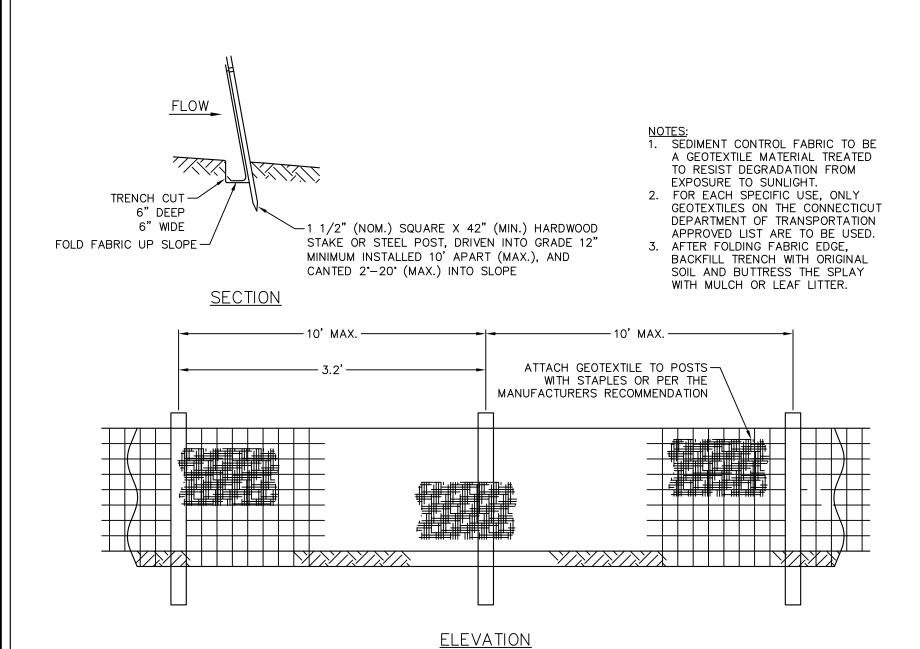
2. SILT SACKS SHALL BE PROVIDED WITH INTERNAL OVERFLOWS.

3. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO

12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY

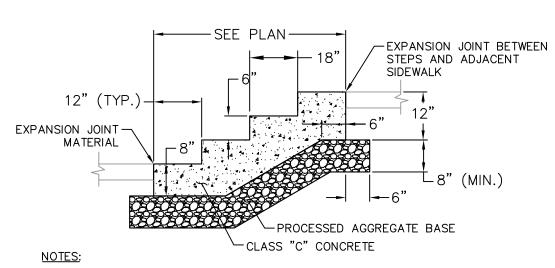
SILT SACK

MAJOR RAINFALL EVENT.



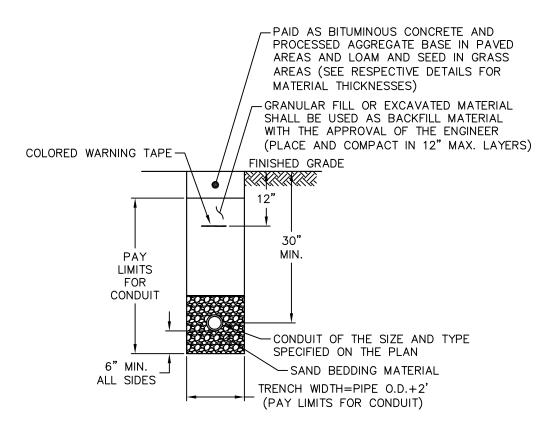
SILT FENCE

NOT TO SCALE

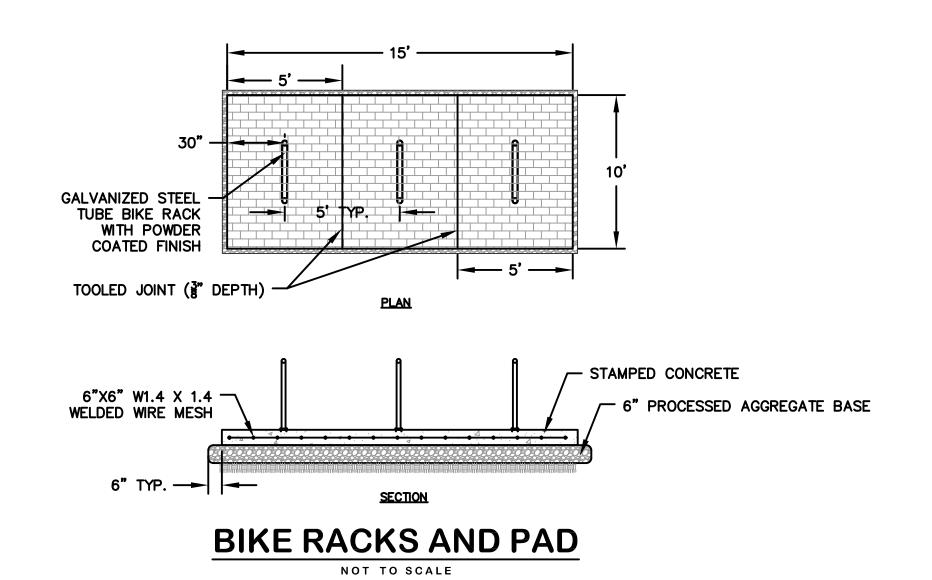


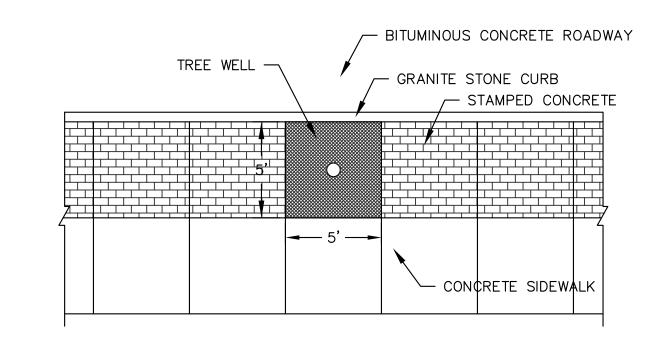
 ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE A MINIMUM OF 4" HIGH TO A MAXIMUM OF 7" HIGH. TREADS SHALL BE A MINIMUM OF 11" DEEP MEASURED FROM RISER TO RISER WITH A PITCH OF 1/4".

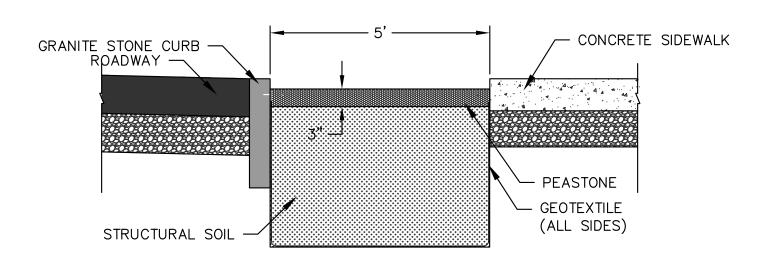
CONCRETE STEPS NOT TO SCALE



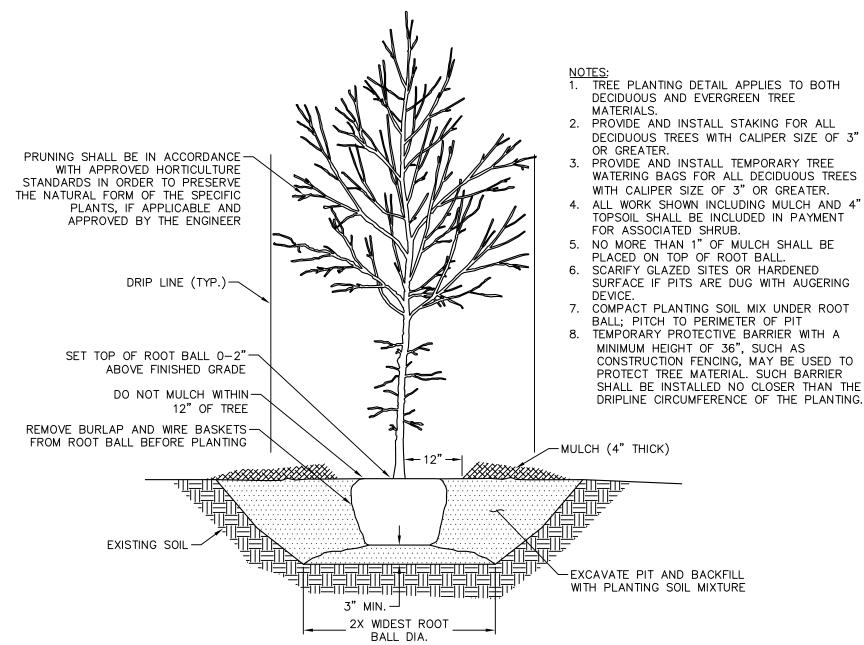
CONDUIT IN TRENCH



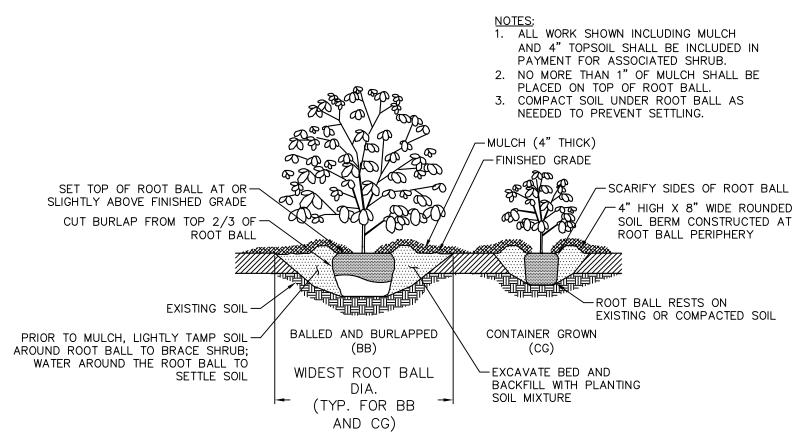




TREE WELL



TREE PLANTING



SHRUB PLANTING NOT TO SCALE



TOWN OF MANCHESTER
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

494 MAIN STREET - P.O. BOX 191
MANCHESTER, CT 06045-0191

LEGEN	۷D	
= WETLANDS BOUNDARY	ά	= LIGHT POLE
= RETAINING WALL	₹	= CONIFEROUS TREE
- GUIDE RAIL	8	= DECIDUOUS TREE
STONE WALL	<u>S</u>	= SANITARY MANHOLE
	0	= DRAINAGE MANHOLE
×× = WIRE FENCE		= CATCH BASIN
o	Δ	= CULVERT END
= PROPERTY LINE	*	= HYDRANT
= RAILROAD TRACKS	cs O	= CURB STOP
Sī— = SILT FENCE	w _o	= WATER VALVE
= CONCRETE MONUMENT	•	
■ GRANITE MONUMENT	BV ⊠ BO	= BUTTERFLY VALVE
• = IRON PIPE	B0	= BLOW OFF
● = IRON ROD	-0	· = Sign · = Double Post Sign
\triangle = CONTROL POINT	- Mi	= MAIL BOX

PROJECT NUMBER

2023111

= UTILITY POLE

E = ELECTRIC BOX

= UTILITY POLE WITH LIGHT

= TRAFFIC SPAN POLE

= BOLLARD

GG = GAS GATE

T = TELEPHONE BOX

	FILENAME 2023111-PLAN.DWG			
NO.	DATE	FILE		
_	11/08/24	FOR BIDDING		
DRAWN BY:		JL		
CHECKED BY:		JL		
RELEASED BY:		ТВ		

DATUM
HORIZONTAL: NAD83 VERTICAL: NAVD88

SPRUCE STREET MANCHESTER, CT

PROJECT LOCATION

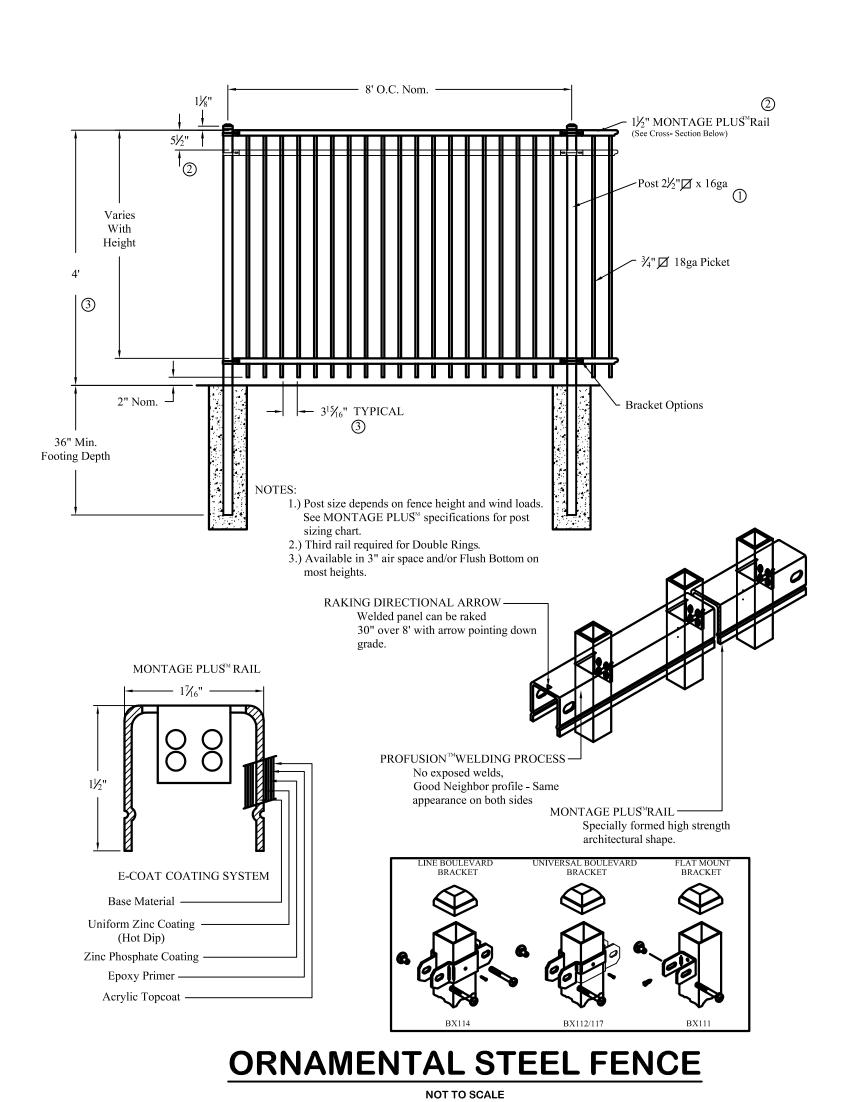
PROJECT TITLE

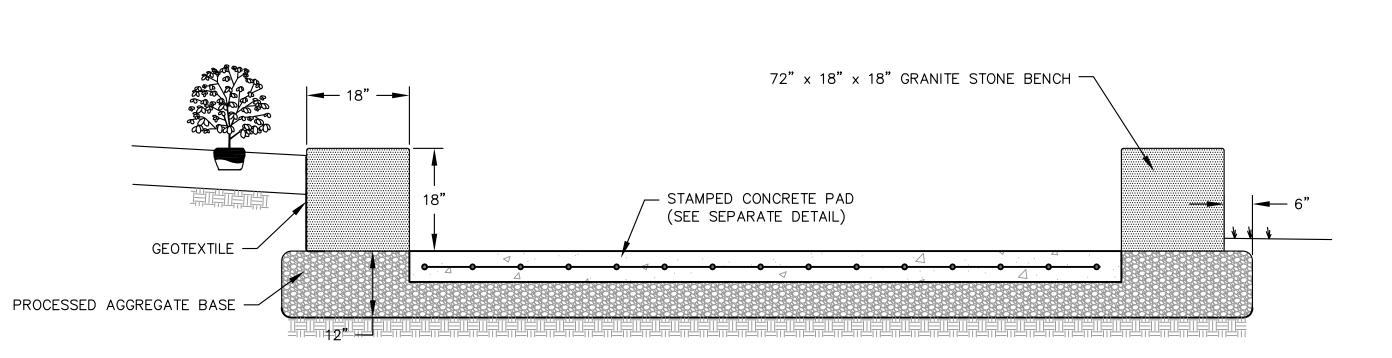
STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

SHEET TITLE

DETAILS

SHEET NUMBER





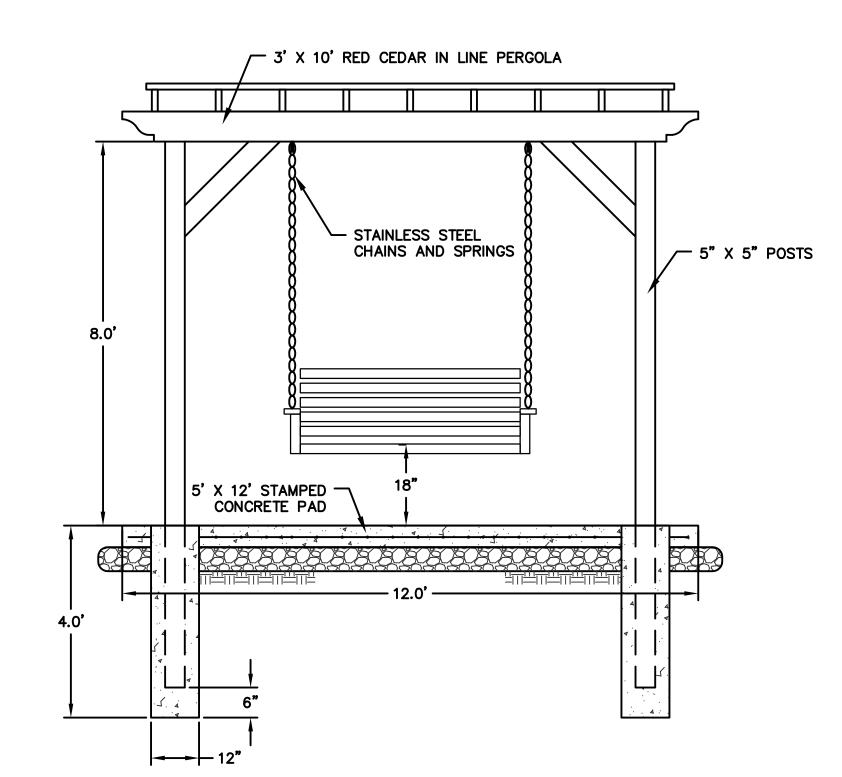
GRANITE BLOCK SITTING WALL

NOT TO SCALE

<u>SECTION</u>

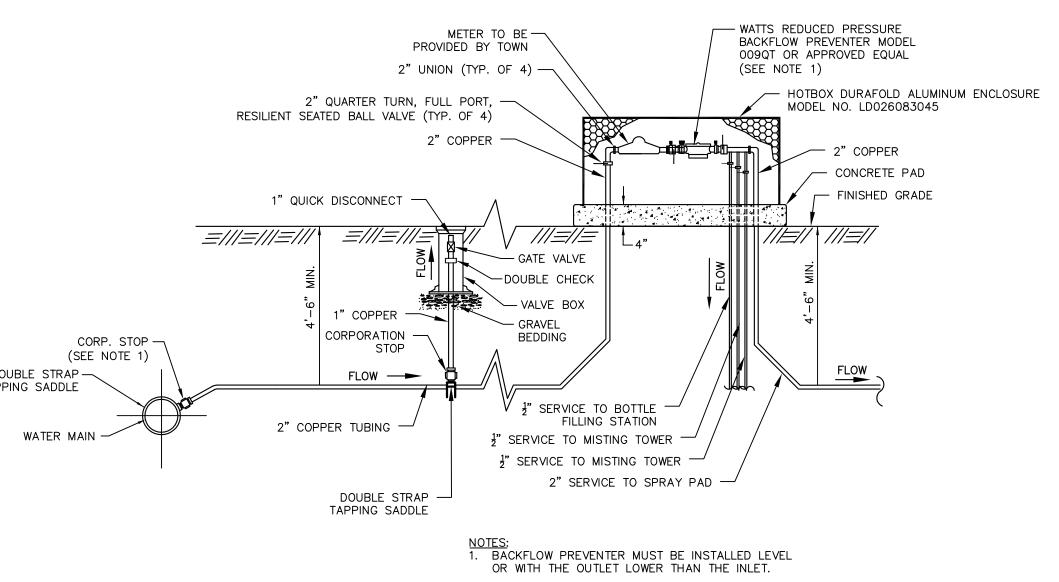
METER TO BE — PROVIDED BY TOWN 2" UNION (TYP. OF 4) -(SEE NOTE 1) HOTBOX DURAFOLD ALUMINUM ENCLOSURE MODEL NO. LD026083045 2" QUARTER TURN, FULL PORT, — RESILIENT SEATED BALL VALVE (TYP. OF 4) 2" COPPER -____ 2" COPPER CONCRETE PAD - FINISHED GRADE 1" QUICK DISCONNECT *=///=///=/// =|||=|||* CORPORATION CORP. STOP — (SEE NOTE 1) STOP DOUBLE STRAP — TAPPING SADDLE FLOW -½" SERVICE TO BOTTLE —/ FILLING STATION 2" COPPER TUBING -WATER MAIN -1" SERVICE TO MISTING TOWER — 1" SERVICE TO MISTING TOWER -2" SERVICE TO SPRAY PAD — DOUBLE STRAP — TAPPING SADDLE

> **WATER SERVICE** NOT TO SCALE



PERGOLA WITH SWING

NOT TO SCALE



TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET — P.O. BOX 191 MANCHESTER, CT 06045—0191

LEGEND

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PROJECT NUMBER 2023111

FILENAME

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DRAWN BY:		JL	
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RELEASED BY:		ТВ	

HORIZONTAL: NAD83 VERTICAL: NAVD88

PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

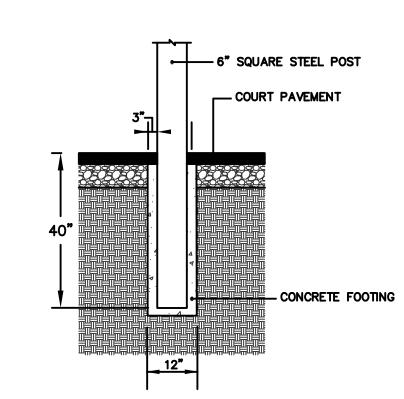
PROJECT TITLE

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

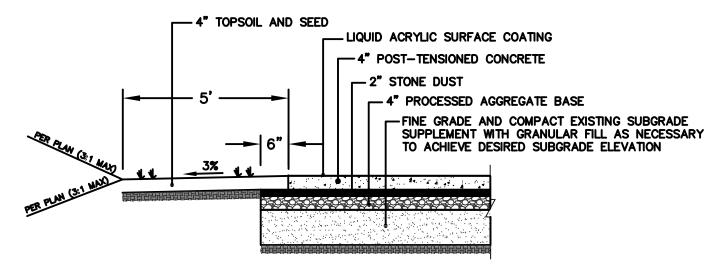
SHEET TITLE

DETAILS

SHEET NUMBER

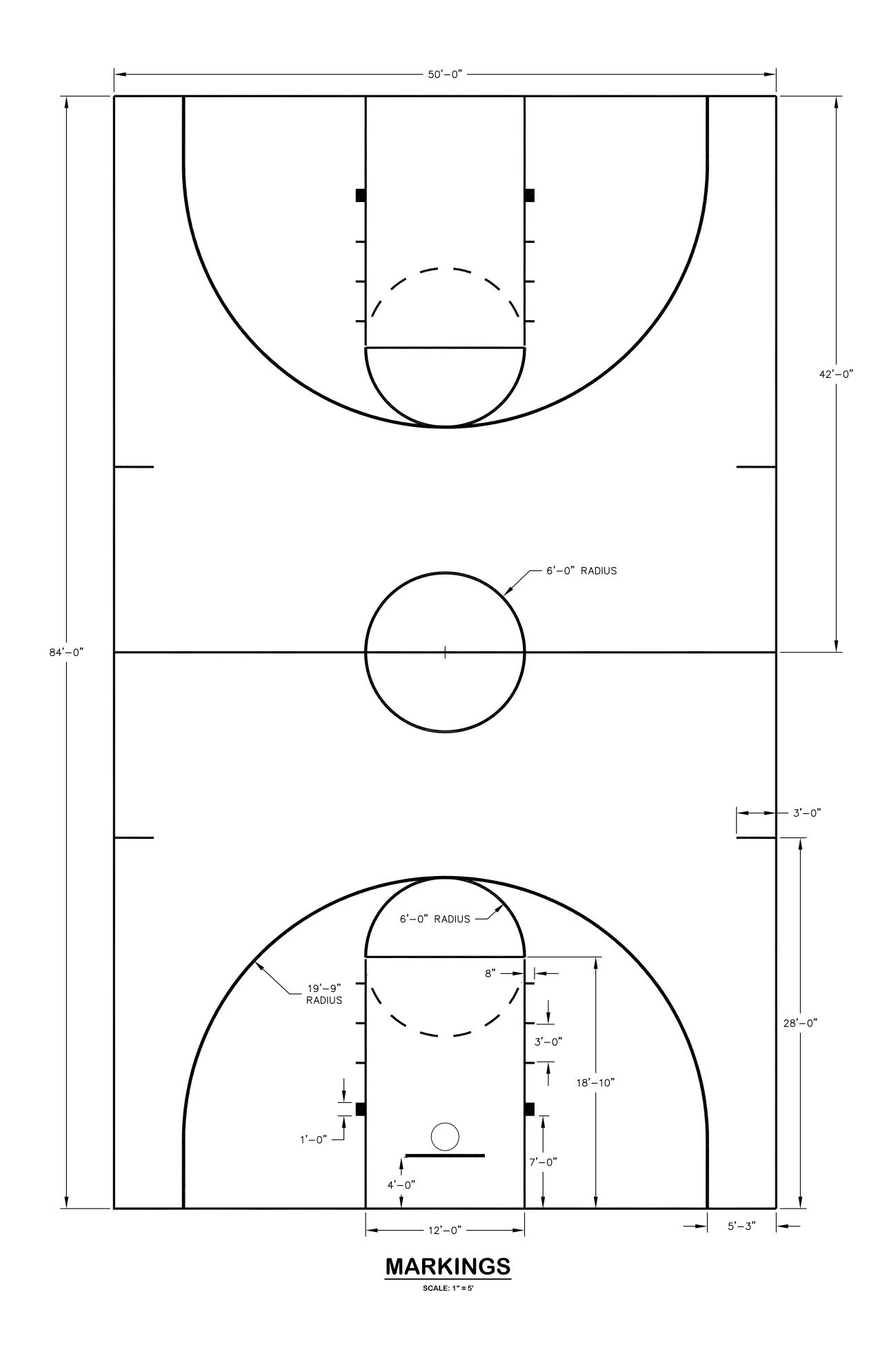


BASKETBALL HOOP POST FOUNDATION NOT TO SCALE



TYPICAL COURT SECTION

NOT TO SCALE





TOWN OF MANCHESTER PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 494 MAIN STREET – P.O. BOX 191 MANCHESTER, CT 06045–0191

LEGEND

= WETLANDS BOUNDARY

= RETAINING WALL

= CONIFER

= CONICE

= CONI

■ IRON ROD

A = CONTROL POINT

■ DRILL HOLE

□ UTILITY POLE

□ UTILITY POLE WITH LIGHT

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A = WETLAND FLAG

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2023111

PILENAME
2023111-PLAN.DWG

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PROJECT LOCATION

SPRUCE STREET MANCHESTER, CT

PROJECT TITLE

STREETSCAPE IMPROVEMENTS
SPRUCE STREET AT
NATHAN HALE SCHOOL

SHEET TITLE

DETAILS

SHEET NUMBER

ALTERNATE BID NO. 1

SHEET 1 OF 1