

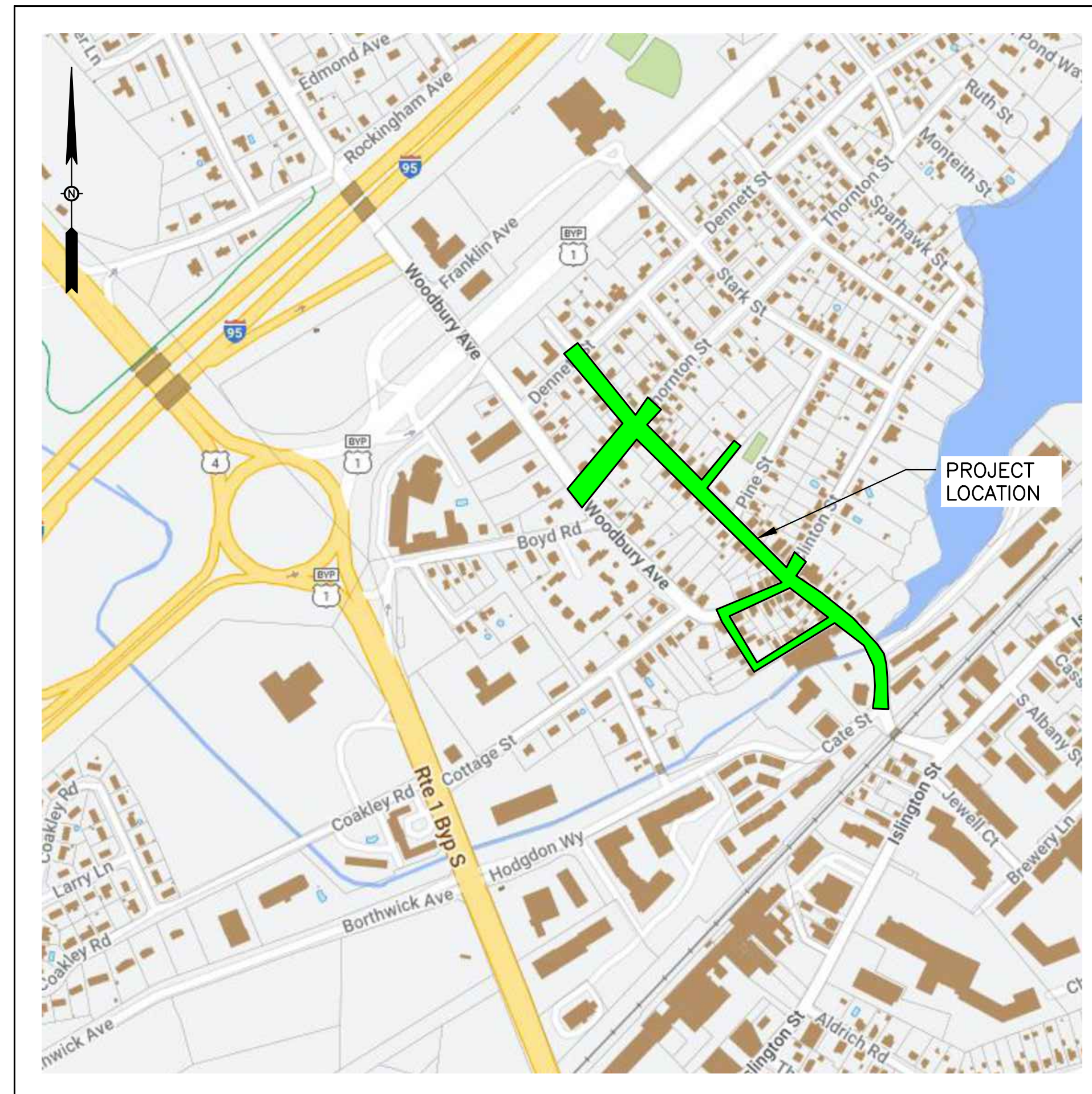
BARTLETT STREET AREA RECONSTRUCTION PORTSMOUTH, NEW HAMPSHIRE

Project #7238

SPRING 2024



DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1530

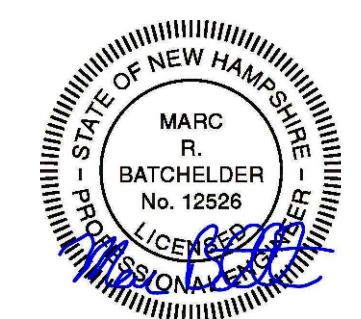


LOCATION MAP
SCALE: N.T.S

INDEX	SHEET NO.
LEGEND & GENERAL NOTES	G-101
EXISTING CONDITIONS & DEMOLITION PLANS	C-001 TO C-006
OVERALL PROJECT & PAVEMENT PLAN	C-100
ROADWAY LAYOUT PLANS	C-101 TO C-105
ADD/ALT #1	C-106
ROADWAY STRIPING & SIGNAGE PLANS	C-201 TO C-205
ADD/ALT #1	C-206
ADD/ALT #2	C-210
GRADING AND DRAINAGE PLANS	C-301 TO C-305
ADD/ALT #1	C-306
UTILITY & PROFILE PLANS	C-401 TO C-405 & C-407
ADD/ALT #1	C-406
DETAILS SHEETS	C-600 TO C-608
H.T.A. DETAILS SHEETS	C-609 TO C-610

SURVEY BY:
TFMORAN, INC.
170 COMMERCE WAY, SUITE 102
PORTSMOUTH, NH 03801

DESIGN BY:
CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801



ISSUED FOR CONSTRUCTION

3/21/2024

LEGEND:

EXISTING	PROPOSED	
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY
		BUILDING
---	---	EDGE OF PAVEMENT
---	VGC	CURB
---	▨	SIDWALK (CONCRETE)
---	+ + + + +	SIDWALK (OTHER)
○	○	ADA TRUNCATED DOME PANEL
○	○	ADA SYMBOL
M	M	SIGN
---	---	MAILBOX
---	SWL	SINGLE WHITE LINE
---	DYCL	DOUBLE YELLOW CENTERLINE
▨	▨	RETAINING WALL
○	○	LOOSE STONE WALL
x x x x	x x x x	FENCE
□	□	GUARDRAIL
⊗	⊗	SHRUB
⊗	⊗	TREE
53	52	TEMPORARY BENCHMARK
53	52	1' CONTOUR
W	W	WETLANDS
A 14		WETLANDS BOUNDARY
D	---	DRAINAGE
W	W	WATER
S	S	GRAVITY SEWER
UT	UT	UNDERGROUND TELE.
UGE	PE	U/G POWER
OHW	PE&C	U/G POWER & COMM.
GAS	GAS	OVERHEAD WIRES
GAS	GAS	GAS
⊗	⊗	FIRE HYDRANT
⊗	⊗	UTILITY POLE
⊗	⊗	UTILITY POLE w/ LIGHT
⊗	⊗	CATCHBASIN
⊗	⊗	MANHOLE
⊗	⊗	WATER SHUT OFF
⊗	⊗	WATER VALVE
⊗	⊗	RIP-RAP APRON
---	---	EROSION CONTROL
---	---	SAWCUT
⊗	⊗	BORING LOCATION

DEMOLITION NOTES:

- LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- ANY DAMAGE BY THE CONTRACTOR DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE REPAIRS OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES NECESSARY TO COMPLETE THE WORK. FEES FOR CITY PERMITS WILL NOT BE CHARGED.
- CONTRACTOR SHALL REMOVE TREES AND BRUSH AS INDICATED AND AS REQUIRED FOR COMPLETION OF THE WORK. ALL STUMBS SHALL BE REMOVED AND SURFACES GRUBBED WITHIN THE LIMITS OF WORK.
- ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH.
- CONTRACTOR SHALL PROTECT ALL FIELD STONE WALLS, FENCES, MAILBOXES, STRUCTURES, ETC. THROUGHOUT THE COMPLETION OF THE WORK.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION WORK. THIS INCLUDES SILT FENCE / SILT SOCK AND INLET PROTECTION BARRIERS.
- CONTRACTOR SHALL SAWCUT PAVEMENT AT EDGES OF TRENCHES FOR CLEAN VERTICAL EDGES.
- CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS ACCESS TO RESIDENTIAL PROPERTIES THROUGHOUT THE CONSTRUCTION PERIOD.
- PAVEMENT RECLAMATION LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL RECLAMATION MAY BE REQUIRED. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT RECLAMATION.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, PAVEMENT, PIPES AND HEADWALLS WITHIN THE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE UTILITIES. WORK ASSOCIATED WITH UTILITIES, BUT NOT LIMITED TO, RELOCATION OF UTILITY POLES.
- CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL ABANDONED PIPES 12" DIAMETER AND LARGER, OR ABANDONED PIPES TO REMAIN UNDER OTHER INFRASTRUCTURE, SHALL BE FILLED WITH FLOWABLE FILL UNLESS OTHERWISE NOTED. ABANDONED PIPE REMOVED IN ORDER TO INSTALL NEW PIPE, REMOVAL IS INCIDENTAL TO THE NEW PIPE PAY ITEM WITH THE EXCEPTION OF AC PIPE REMOVAL.
- CONTRACTOR SHALL INSPECT ALL STRUCTURES THAT ARE TO REMAIN TO IDENTIFY ANY REPAIRS REQUIRED.

GRADING NOTES:

- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. THE INTENT OF FINAL GRADING IS TO CREATE SIDEWALKS AND ROADS TO MATCH STOOPTS OF HOMES AND GRADES OF EXISTING DRIVEWAYS TO THE BEST EXTENT POSSIBLE.
- EXISTING MANHOLES AND CATCHBASINS WITHIN LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADES.
- ALL WATER SHUT OFF VALVES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADES.
- CONTRACTOR SHALL CLEAN ALL STRUCTURES WITHIN THE CONSTRUCTION LIMITS IMMEDIATELY UPON COMPLETION OF THE WORK. ALL SEDIMENT AND DEBRIS SHALL BE DISPOSED OF PER FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM DRAIN PIPING, UNLESS OTHERWISE NOTED, SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR APPROVED EQUAL).
- PROPOSED CATCHBASINS SHALL BE EQUIPPED WITH OIL/WATER SEPARATOR HOODS UNLESS OTHERWISE NOTED. ALL CATCHBASINS (EXISTING AND NEW) WITHIN THE CITY R.O.W. SHALL RECEIVE A POLYLINER.
- ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM REQUIREMENTS FOR COMPACTION:

BELOW PAVEMENT AND CONCRETE AREAS:	95%
TRENCH BEDDING AND BACKFILL:	95%
BELOW LOAM AND SEED AREAS:	90%

 COMPACTION PERCENTAGES SHALL BE THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
- STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) AND CITY OF PORTSMOUTH DPW STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL GRADE SLOPES TO THE LINES AND GRADES SHOWN ON THE PLANS. SLOPES STEEPER THAN 2:1 SHALL INCLUDE 6" RIP-RAP STONE FOR A DEPTH OF 18". SLOPES FROM 4:1 TO 2:1, CONTRACTOR SHALL PROVIDE A SLOPE STABILIZATION BLANKET.

SITE NOTES:

- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
- CONTRACTOR WILL BE PROVIDED CAD (.DWG FORMAT) FILE OF THE PROJECT FOR THEIR USE TO LAYOUT.
- CONTRACTOR SHALL PROVIDE AS-BUILT PLANS (.DWG FORMAT) AUTOCAD FILES IN NH STATE PLANE COORDINATES TO THE CITY OF PORTSMOUTH UPON COMPLETION OF THE PROJECT.
- MATERIALS AND CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL VERTICAL AN HORIZONTAL CONTROL FOR THE PROJECT.
- PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM CONTROL DEVICES". "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS".
- CONTRACTOR SHALL APPLY FOR AN EXCAVATION & FLAGGING PERMIT FOR ALL WORK WITHIN CITY PROPERTY. THE PERMIT APPLICATION SHALL INCLUDE A MAINTENANCE OF TRAFFIC PLAN. CITY OF PORTSMOUTH - DPW TO REVIEW FOR APPROVAL.
- CONTRACTOR SHALL BE FAMILIAR WITH ALL AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS FOR ACCESSIBILITY.
- PAVEMENT MARKINGS SUCH AS CROSSWALKS, STOP BARS, LEGENDS AND SYMBOLS SHALL BE THERMOPLASTIC PER AASHTO M249. CENTERLINE AND EDGE STRIPING SHALL BE TRAFFIC PAINT PER AASHTO M248 TYPE 'F'. TRAFFIC PAINT COLOR AS INDICATED IN THE PLANS.

GRAVITY SEWER NOTES:

- ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE: BACKFILL AS STATED IN THE TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS.
- BEDDING: SEE NOTE 7 OF STANDARD MANHOLE NOTES. WHERE ORDERED BY THE ENGINEER TO STABILIZE THE TRENCH BASE, GRADED SCREENED GRAVEL OR CRUSHED STONE 1/2 INCH TO 1-1/2 INCH SHALL BE USED.
- SAND BLANKET: CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 90-100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% WILL PASS A #200 SIEVE. NO STONE LARGER THAN 2" SHOULD BE IN CONTACT WITH THE PIPE.
- SUITABLE MATERIAL: IN ROADS, ROAD SHOULDERS, WALKWAYS AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS; PIECES OF PAVEMENT; ORGANIC MATTER; TOP SOIL; ALL WET OR SOFT MUCK, PEAT, OR CLAY; ALL EXCAVATED LEDGE MATERIAL; ALL ROCKS OVER 6 INCHES IN LARGEST DIMENSION; AND ANY MATERIAL WHICH, AS DETERMINED BY THE ENGINEER, WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. IN CROSS-COUNTRY CONSTRUCTION, SUITABLE MATERIAL SHALL BE AS DESCRIBED ABOVE, EXCEPT THAT THE ENGINEER MAY PERMIT THE USE OF TOP SOIL, LOAM, MUCK, OR PEAT, IF HE IS SATISFIED THAT THE COMPLETED CONSTRUCTION WILL BE ENTIRELY STABLE AND PROVIDED THAT EASY ACCESS TO THE SEWER, FOR MAINTENANCE AND POSSIBLY RECONSTRUCTION, WILL BE PRESERVED.
- BASE COURSE AND PAVEMENT SHALL MEET THE REQUIREMENTS OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES - DIVISIONS 300 AND 400 RESPECTIVELY AND LOCAL REGULATION.
- WOOD SHEETING, IF REQUIRED: WHERE SHEETING IS PLACED ALONGSIDE THE PIPE AND EXTENDS BELOW MID-DIAMETER, IT SHALL BE CUT OFF AND LEFT IN PLACE TO AN ELEVATION 1 FOOT ABOVE THE TOP OF PIPE. WHERE SHEETING IS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE, IT SHALL BE CUT OFF AT LEAST 3 FEET BELOW FINISHED GRADE, BUT NOT LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE.
- W = MAXIMUM ALLOWABLE TRENCH PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. FOR PIPES 15 INCHES NOMINAL DIAMETER OR LESS, W SHALL BE NO MORE THAN 36 INCHES. FOR PIPES GREATER THAN 15 INCHES IN NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS PIPE OUTSIDE DIAMETER (O.D.) ALSO, W SHALL BE THE PAYMENT WIDTH.

UTILITY NOTES:

- CONTRACTOR SHALL IDENTIFY AND RECORD SWING TIES TO ALL EXISTING UTILITY STRUCTURES, INCLUDING, BUT NOT LIMITED TO WATER SHUT OFF VALVES, MANHOLES, FIRE HYDRANTS.
- CONTRACTOR SHALL COORDINATE UTILITY WORK WITH THE APPROPRIATE UTILITY COMPANY.
 - ELECTRIC - EVERSOURCE
 - TELEPHONE - FAIRPOINT
 - WATER/SEWER - CITY OF PORTSMOUTH
 - GAS - UNITIL
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, ARRANGE ALL INSPECTIONS, AND SUBMIT CERTIFICATES OF ACCEPTANCE TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, CATCHBASINS, FRAMES, GRATES & COVERS, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF THE UTILITY COMPLETE AND OPERATIONAL.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE THE CITY OF PORTSMOUTH AS-BUILT DRAWINGS (AUTOCAD FORMAT) FOR THE PROPOSED WATER, SEWER AND DRAINAGE SYSTEMS. DRAIN AND SEWER AS-BUILT SHALL INCLUDE X,Y,Z COORDINATES FOR ALL UTILITY (DRAIN AND SEWER) STRUCTURES INCLUDING INVERTS. WATER SYSTEM AS-BUILT SHALL INCLUDE X,Y,Z COORDINATES FOR ALL SURFACE STRUCTURES AS WELL AS ALL PIPE BENDS, SLEEVES, ETC. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO PROVIDE SWING TIES AND PHOTOS FOR ALL PROPERTY SERVICES (WATER, SEWER AND DRAIN) NECESSARY TO CREATE CITY STANDARD SWING TIE SHEETS.
- ALL HYDRANTS AND VALVES SHALL BE INSPECTED AND MUST MEET CITY OF PORTSMOUTH STANDARDS.
- CONTRACTOR TO VERIFY SEWER AND WATER LATERAL LOCATIONS FOR TIE-INS AND COORDINATE WITH HOMEOWNERS.
- MINIMUM OF 12" CLEARANCE BETWEEN ALL CROSSING UTILITIES. IN THE EVENT <12" IS NEEDED, RIGID INSULATION SHALL BE PLACED BETWEEN THE UTILITIES.
- WATER CROSSING ABOVE SEWER SHALL HAVE A MINIMUM OF 18" CLEARANCE.
- SEWER AND WATER MAINS SHALL BE SEPARATED HORIZONTALLY BY A MINIMUM OF 10'.
- NEW FRAMES, GATE VALVES AND CURB STOPS SHALL BE ADJUSTED TO GRADE. ADJUSTMENTS (TEMP. & FINAL) ARE INCIDENTAL TO THE PAY ITEM.
- REMOVAL OF EXISTING ABANDONED PIPE IN CONFLICT WITH NEW PIPE SHALL BE INCIDENTAL TO THE NEW PIPE PAY ITEM.
- NEW SEWER MAIN LOCATIONS ONLY - SEWER SERVICE LINES SHALL BE CONNECTED TO EXISTING AT CITY RIGHT-OF-WAY WITH A WYE EXTENDING VERTICALLY TO THE SURFACE. SEE DETAIL FOR COVER REQUIREMENTS IN PAVEMENT VS. GRASS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITY STRUCTURES THROUGHOUT THE PROJECT. AT THE CITY REQUEST, THE CONTRACTOR SHALL PROVIDE ADEQUATE ACCESS TO ANY STRUCTURE WHERE THEIR WORK IMPEDES ACCESS. THIS MAY INCLUDE EXCAVATING FOR STRUCTURES BURIED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE CITY.
- CONTRACTOR SHALL PROVIDE THE CITY WITH A TEMPORARY WATER PLAN FOR REVIEW AND APPROVAL. THIS SHALL BE PROVIDED AT ALL LOCATIONS WHERE A TEMPORARY WATER MAIN AND SERVICES WILL BE REQUIRED BASED ON THE CONTRACTORS MEANS AND METHODS.
- ALL CORING OF STRUCTURES SHALL BE DONE WITH A CORE DRILL. CORES SHALL BE PROVIDED WITH RUBBER BOOT SEALS WHERE ANNULAR SPACE BETWEEN THE BOOT AND PIPE ARE FILLED IN WITH MORTAR.

GENERAL NOTES:

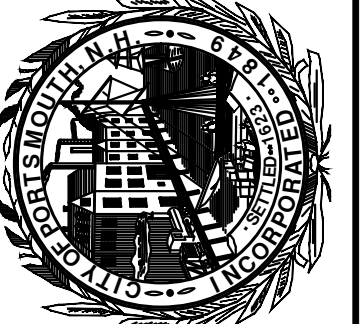
- THE LIMITS OF THIS PROJECT ARE NOT WITHIN THE FEMA 100-YR FLOOD PLAIN. TECHNICAL SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS. NORTH MILL POND IS IN ZONE AE (EL 8).

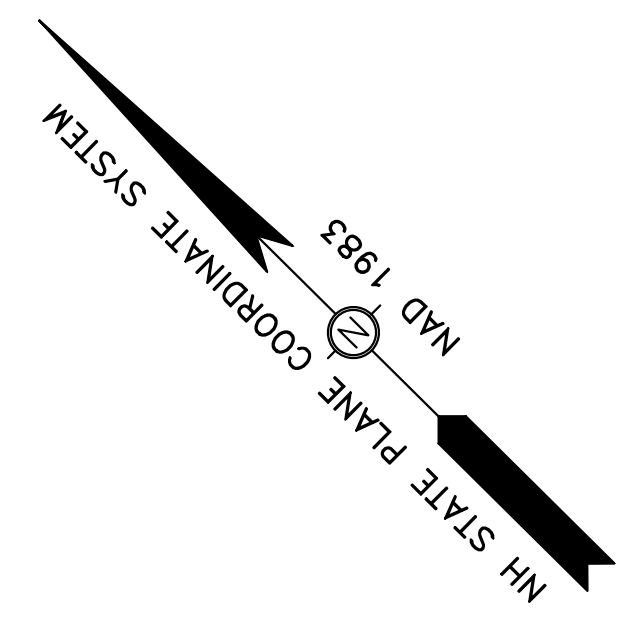
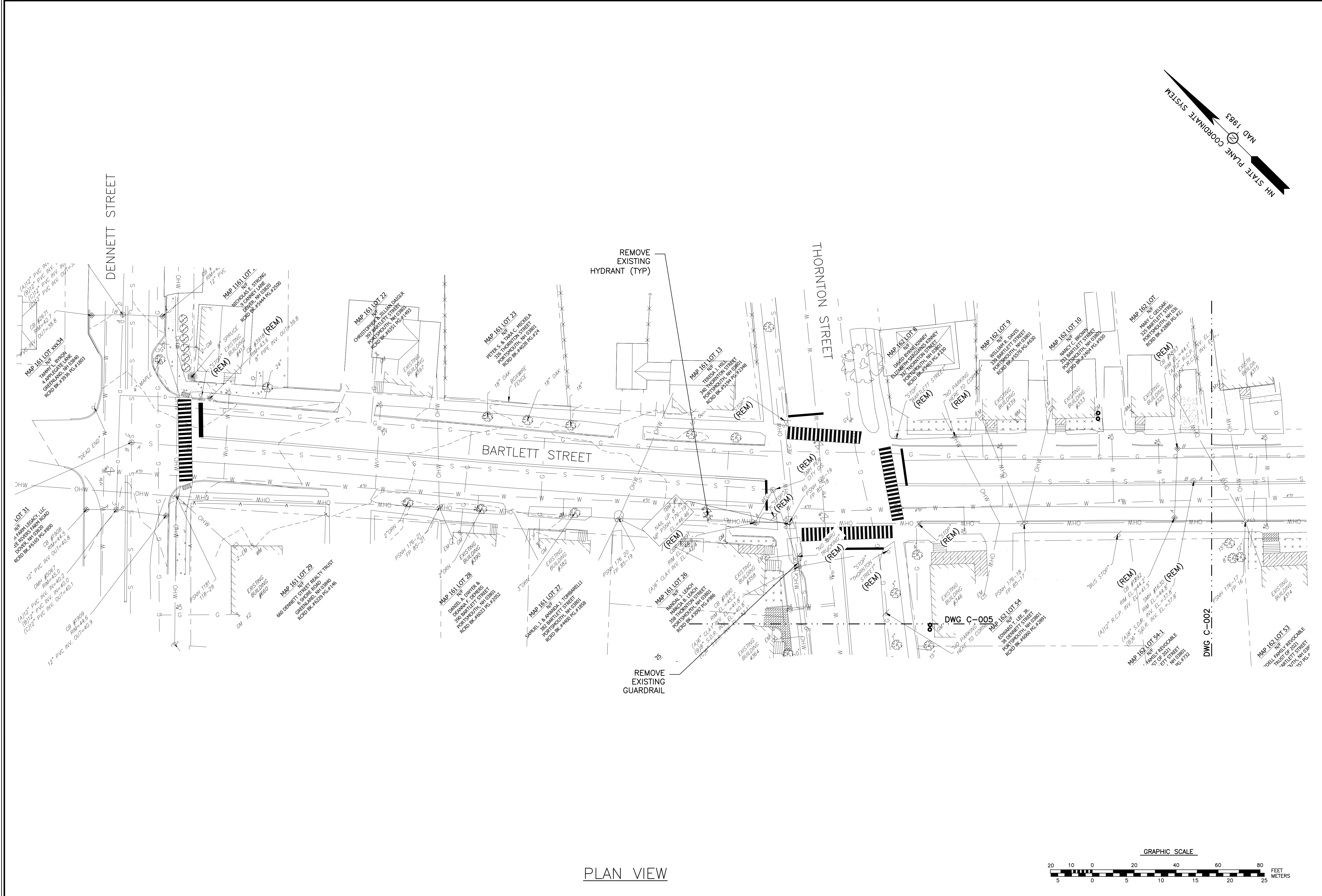
ADD/ALT DESCRIPTIONS:

- ADD/ALT 1:
ADD/ALT TO RECONSTRUCT UNDERGROUND UTILITIES AND ROADWAY OF MORNING STREET FROM BARTLETT STREET TO WOODBURY AVENUE. UTILITIES (WATER, DRAIN AND SEWER) WILL BE INSTALLED AND STUBBED FOR FUTURE CONNECTIONS APPROXIMATELY 80' INTO MORNING STREET FROM BARTLETT STREET UNDER THE BASE BID.
- ADD/ALT 2:
ADD/ALT TO PROVIDE A 2-WAY STOP (THORNTON STREET) WITH A RAISED INTERSECTION AT BARTLETT STREET & THORNTON STREET INTERSECTION IN PLACE OF THE 4-WAY STOP INTERSECTION.

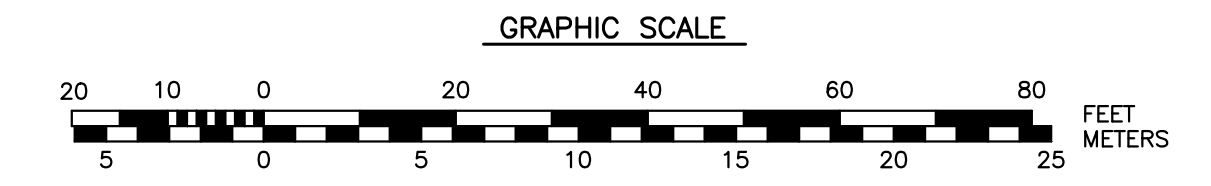
ABBREVIATIONS:

R&R	REMOVE AND RESET
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
ADJ	ADJUST FRAME
REM	REMOVE
DSYL	DOUBLE SOLID YELLOW LINE
SSYL	SINGLE SOLID YELLOW LINE
SDYL	SINGLE DASHED YELLOW LINE
SSWL	SINGLE SOLID WHITE LINE
SDWL	SINGLE DASHED WHITE LINE

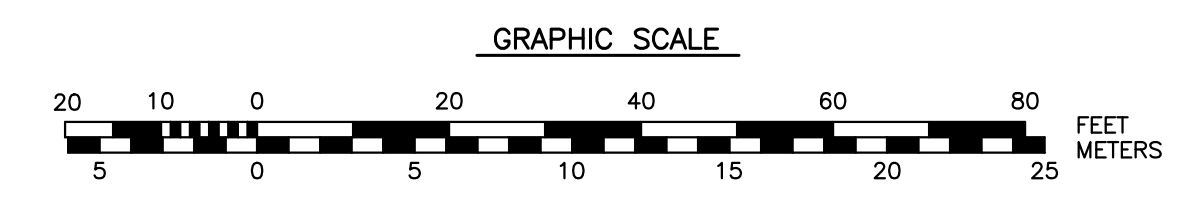
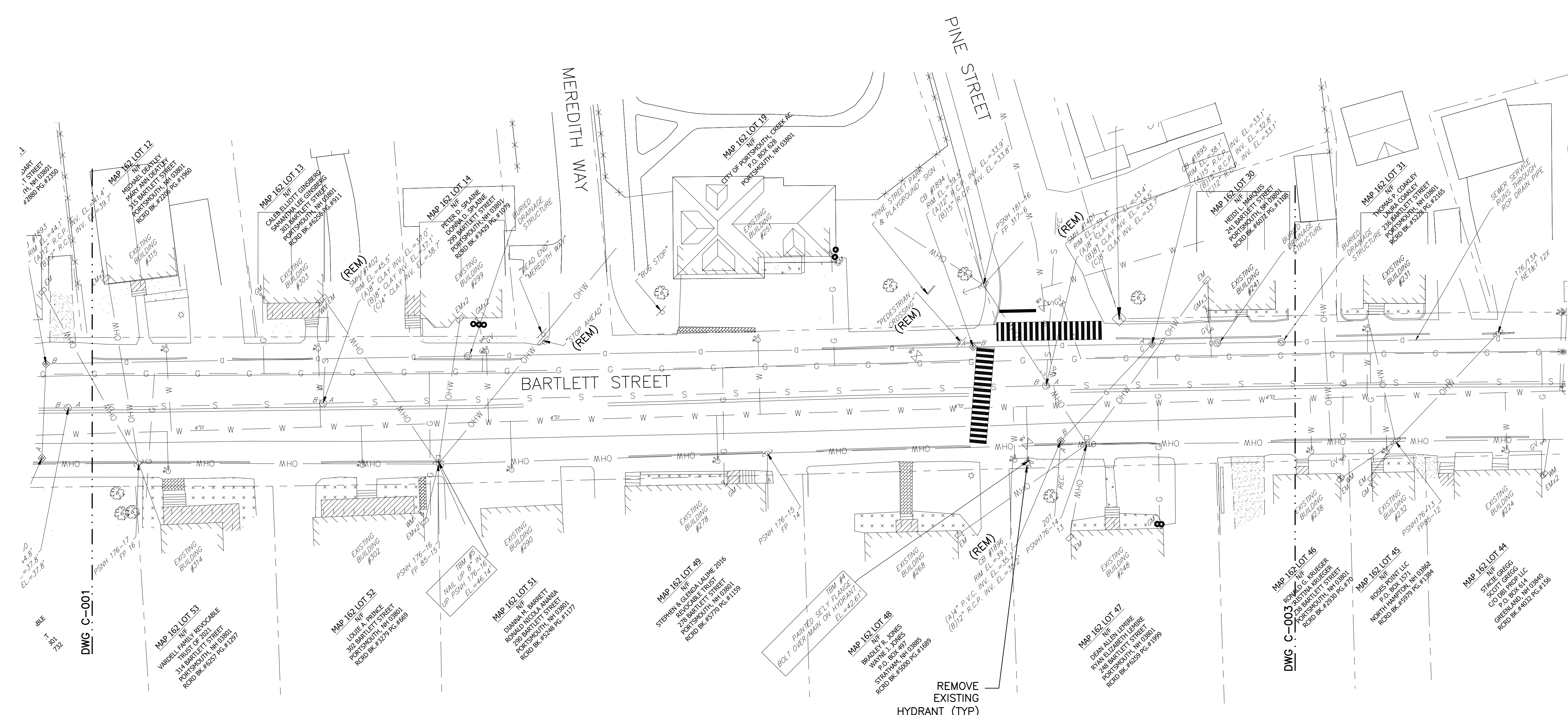
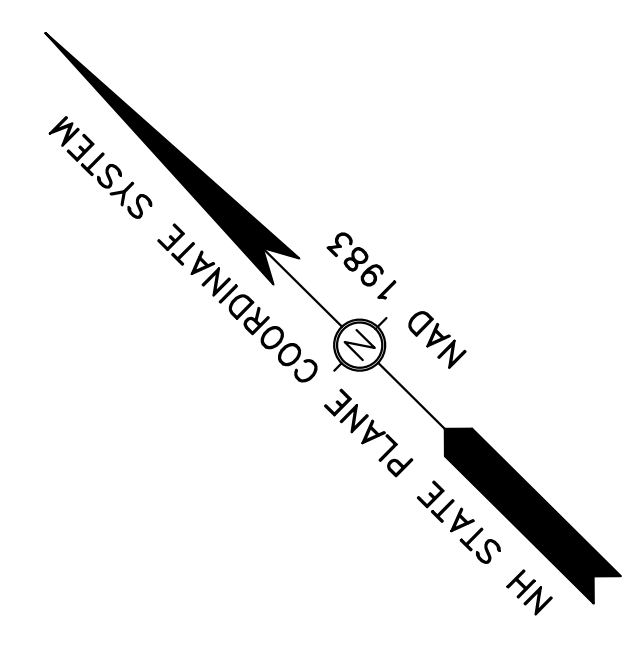
DATE: JANUARY 2023	SCALE: AS SHOWN	PROJ. NO.: 7238	APVD BY: MRB
			
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630			
PROJECT: BARTLETT STREET AREA RECONSTRUCTION	TITLE: LEGEND & GENERAL NOTES		
SHEET: G-101			



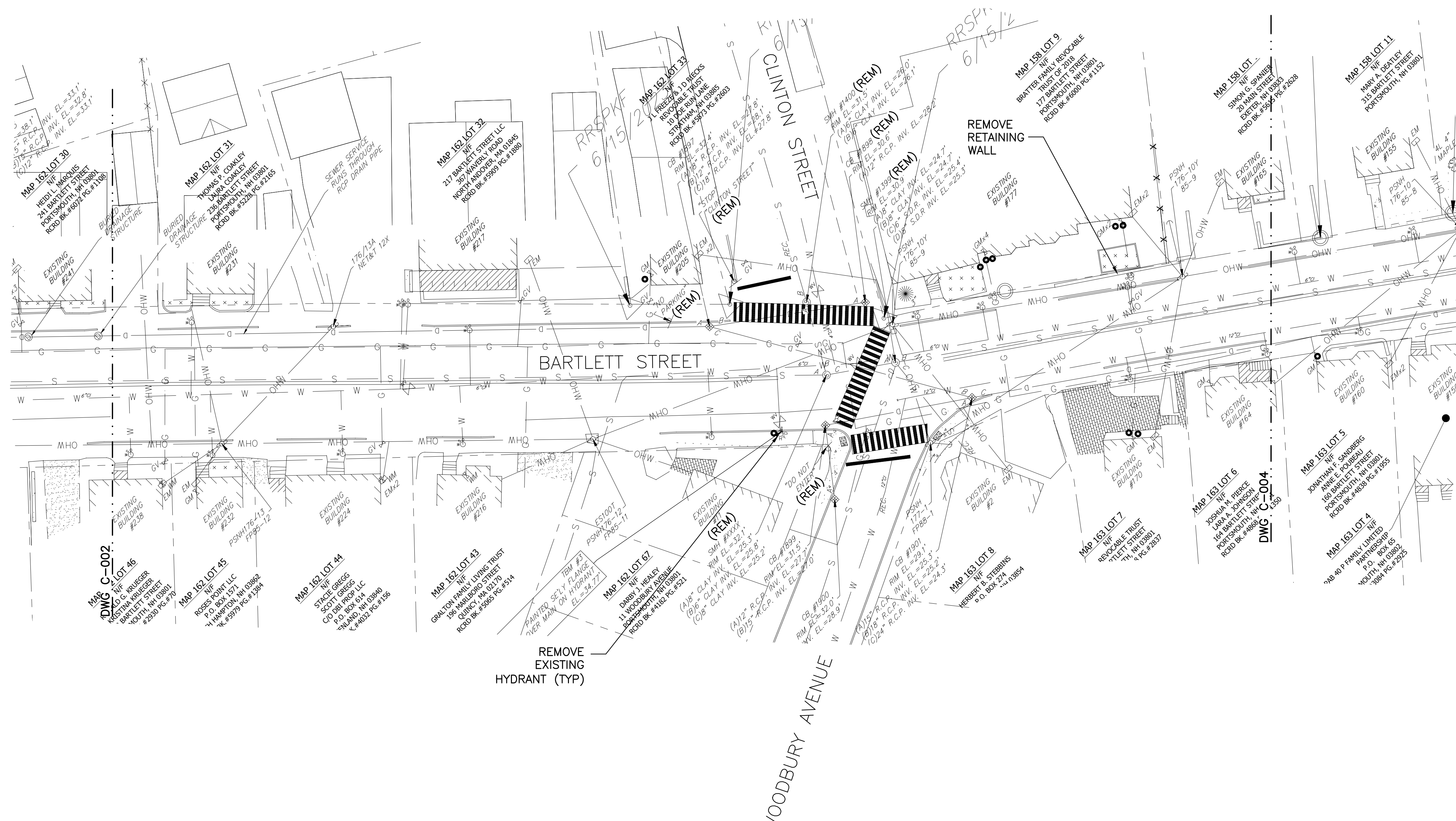
PLAN VIEW



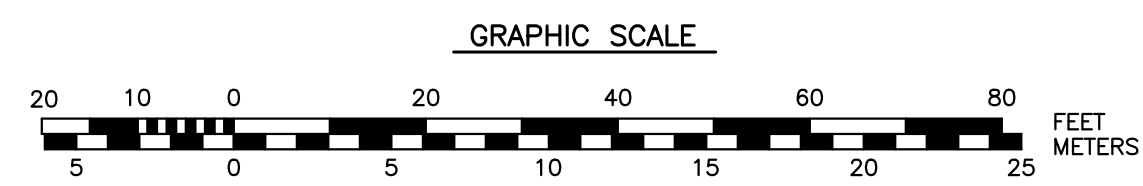
PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
	TITLE: EXISTING CONDITIONS & DEMOLITION PLAN		
DATE:	JANUARY 2023		
SCALE:	AS SHOWN		
PROJ. NO.:	7238		
APVD BY:	MRB		
SHEET:	C-001		
	NO.:		
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630	ISSUED FOR CONSTRUCTION	MRB	3/21/24
	ISSUED FOR BID	MRB	12/9/23
REVISIONS	APPD	DATE	



PROJECT:	BARTLETT STREET AREA RECONSTRUCTION					
	EXISTING CONDITIONS & DEMOLITION PLAN					
DATE:	JANUARY 2023	SCALE:	AS SHOWN	PROJECT NO.:	7238	
APVD BY:	MRB	ISSUED FOR CONSTRUCTION:	MRB	ISSUED FOR BID:	MRB	
TITLE:					NO.:	0
SHEET:	C-002				REVISIONS:	APPD
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630					DATE:	3/21/24
					NO.	2
					DATE:	12/9/23




PLAN VIEW



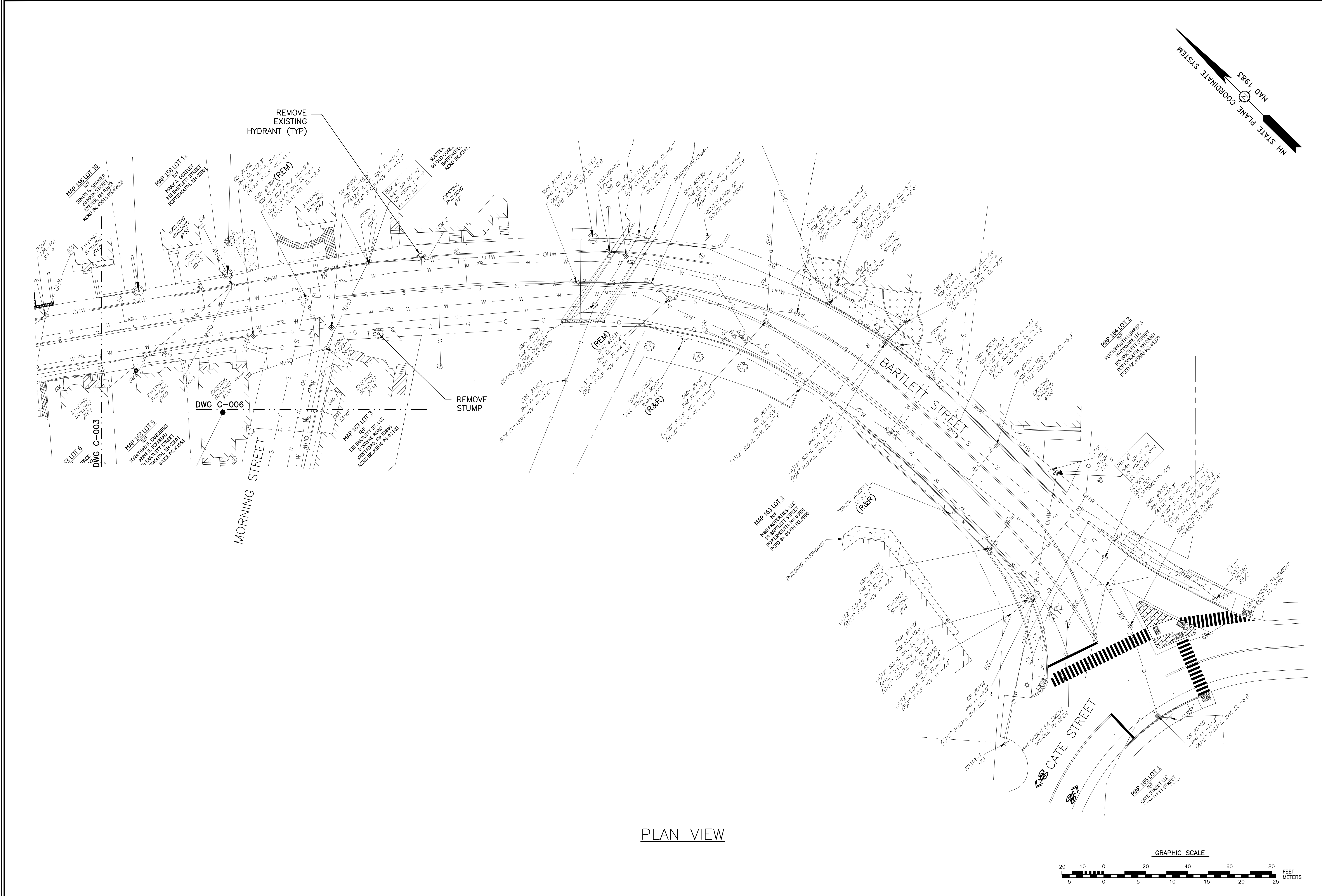
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530

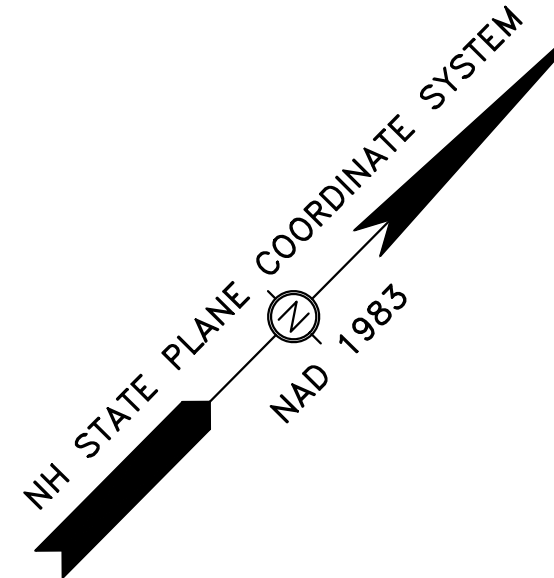
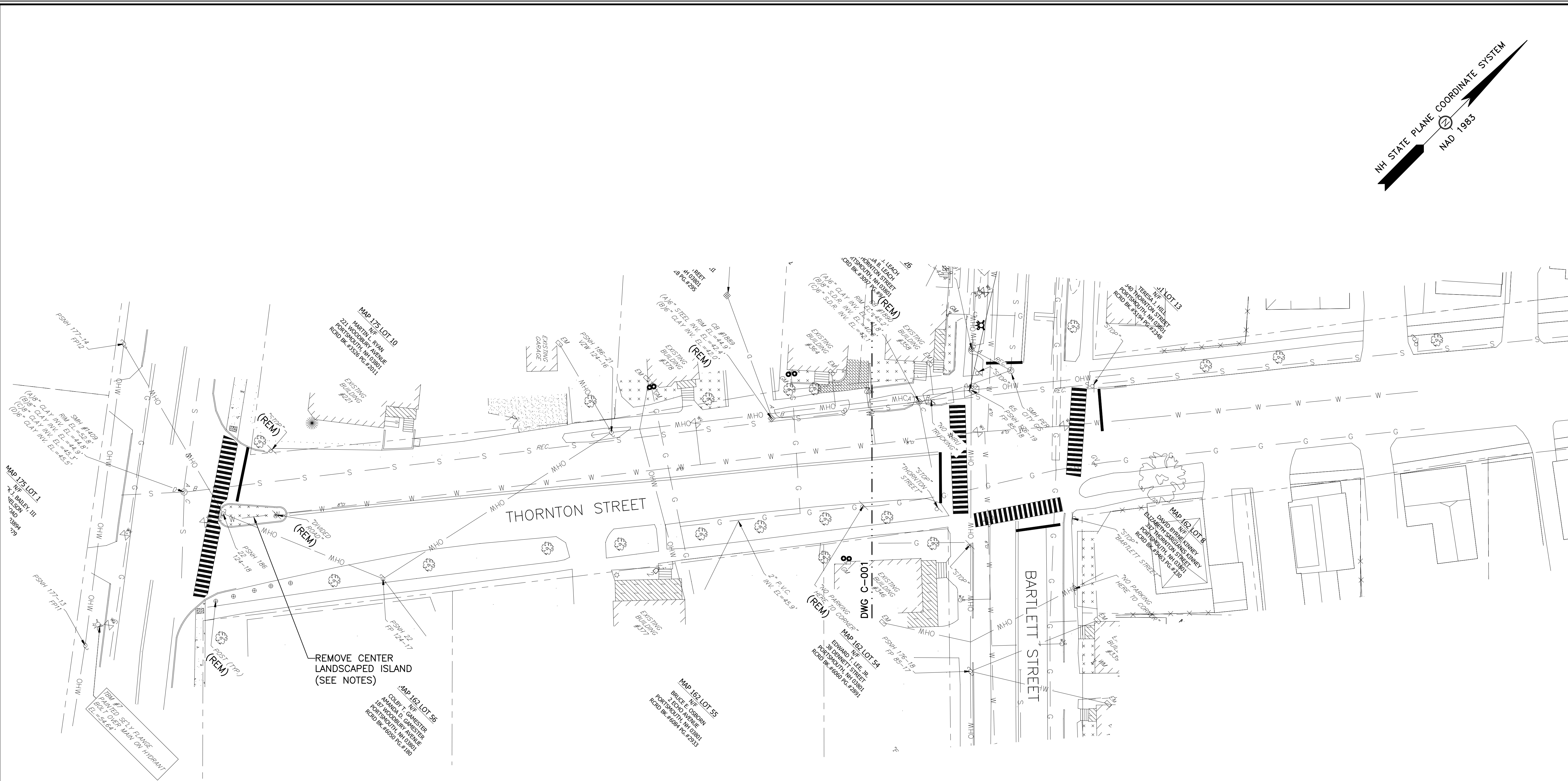


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: EXISTING CONDITIONS & DEMOLITION PLAN
SHEET: C-003

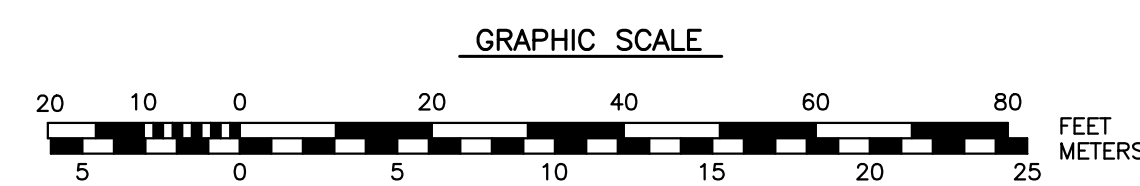


PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
TITLE:	EXISTING CONDITIONS & DEMOLITION PLAN		
DATE:	JANUARY 2023	SCALE:	AS SHOWN
PROJ. NO.:	7238	APVD BY:	MRB
NO.:	2	ISSUED FOR CONSTRUCTION	MRB 3/21/24
NO.:	0	ISSUED FOR BID	MRB 12/9/23
NO.:		REVISIONS	APPD DATE
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1530			

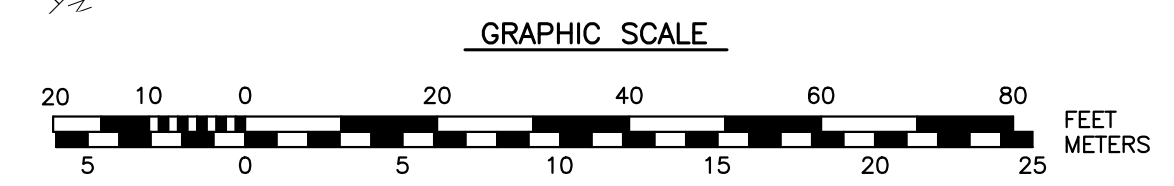
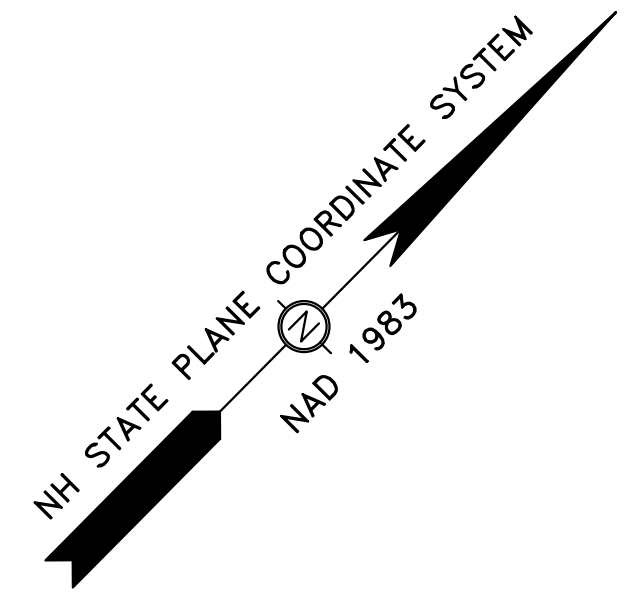
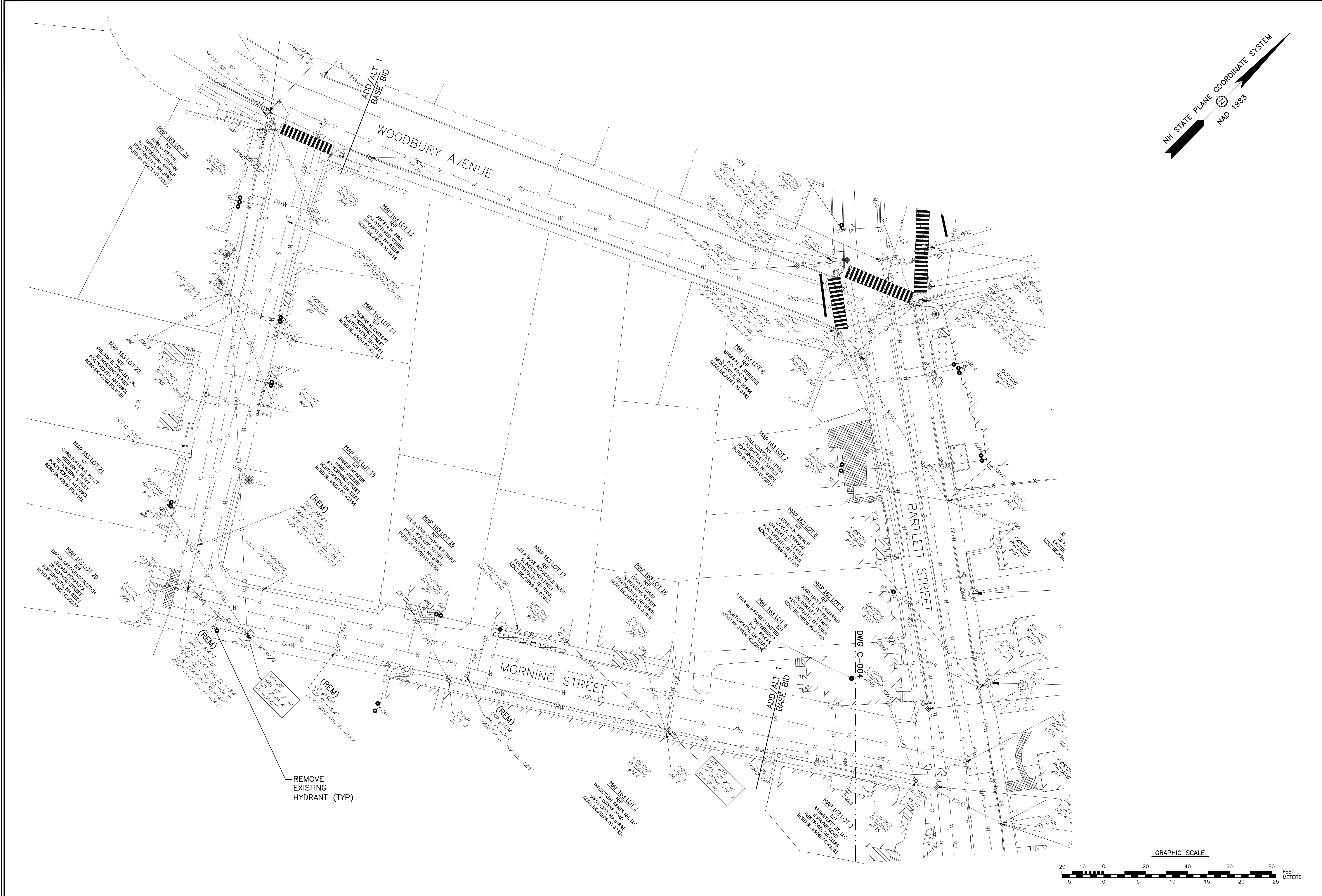


PLAN VIEW

- NOTES:
 1. CONTRACTOR SHALL COORDINATE REMOVAL OF CENTER LANDSCAPED ISLAND WITH DPW AND ADOPT-A-SPOT SPONSOR.

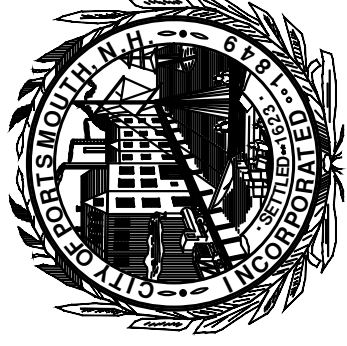


DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1530		DATE: JANUARY 2023 SCALE: AS SHOWN PROJ. NO.: 7238 APVD BY: MRB		PROJECT: BARTLETT STREET AREA RECONSTRUCTION	
		TITLE: EXISTING CONDITIONS & DEMOLITION PLAN		SHEET: C-005	
NO.	REVISIONS	APPD	DATE		
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24		
0	ISSUED FOR BID	MRB	12/9/23		



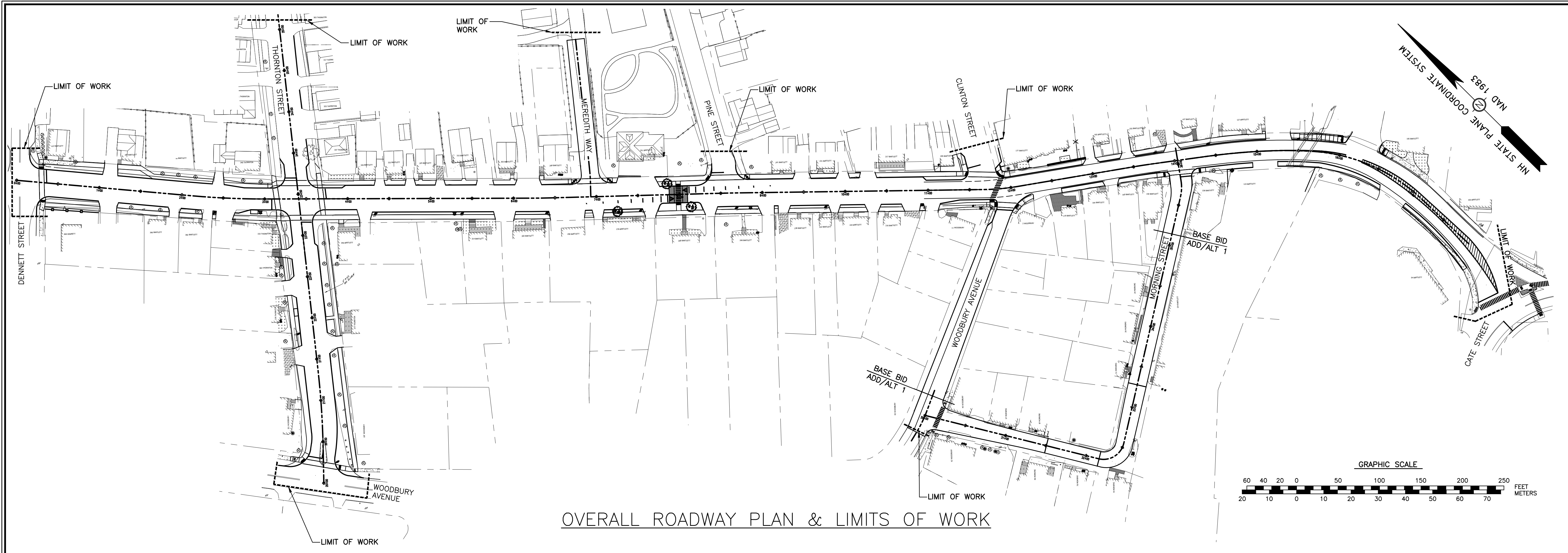
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

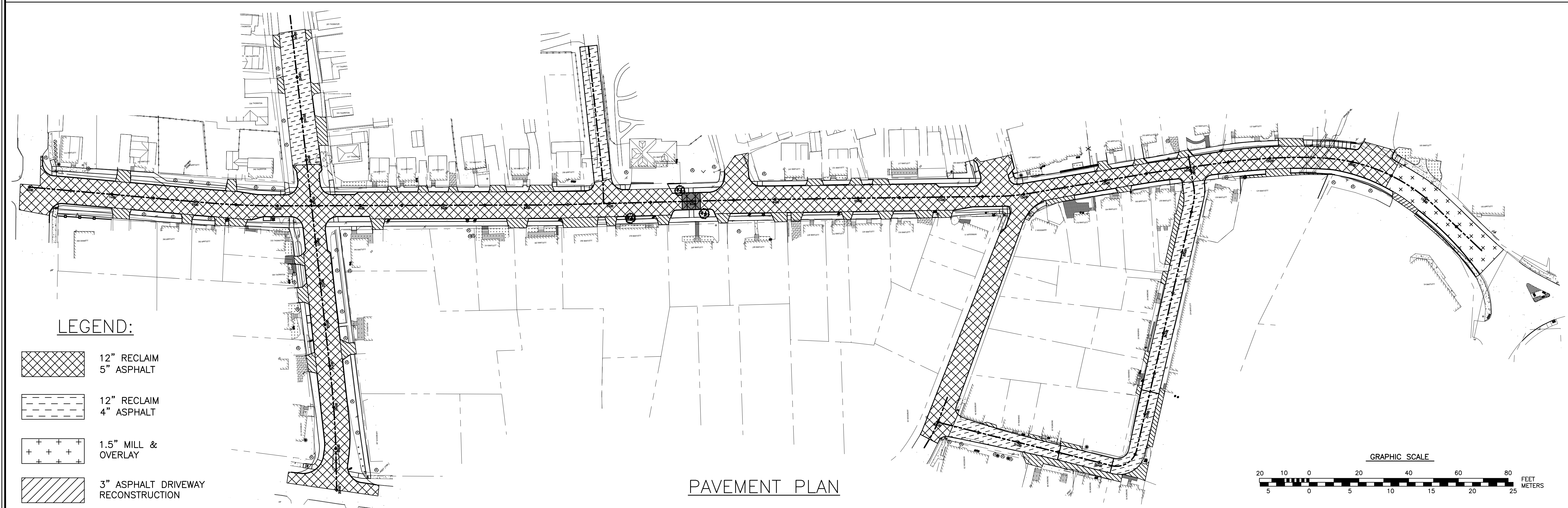


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: EXISTING CONDITIONS & DEMOLITION PLAN
SHEET: C-006



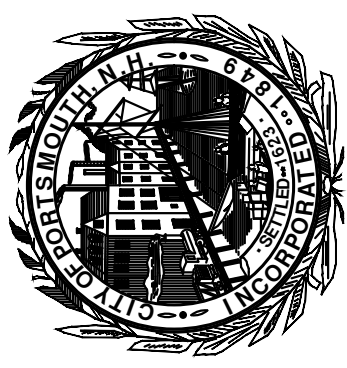
OVERALL ROADWAY PLAN & LIMITS OF WORK



PAVEMENT PLAN

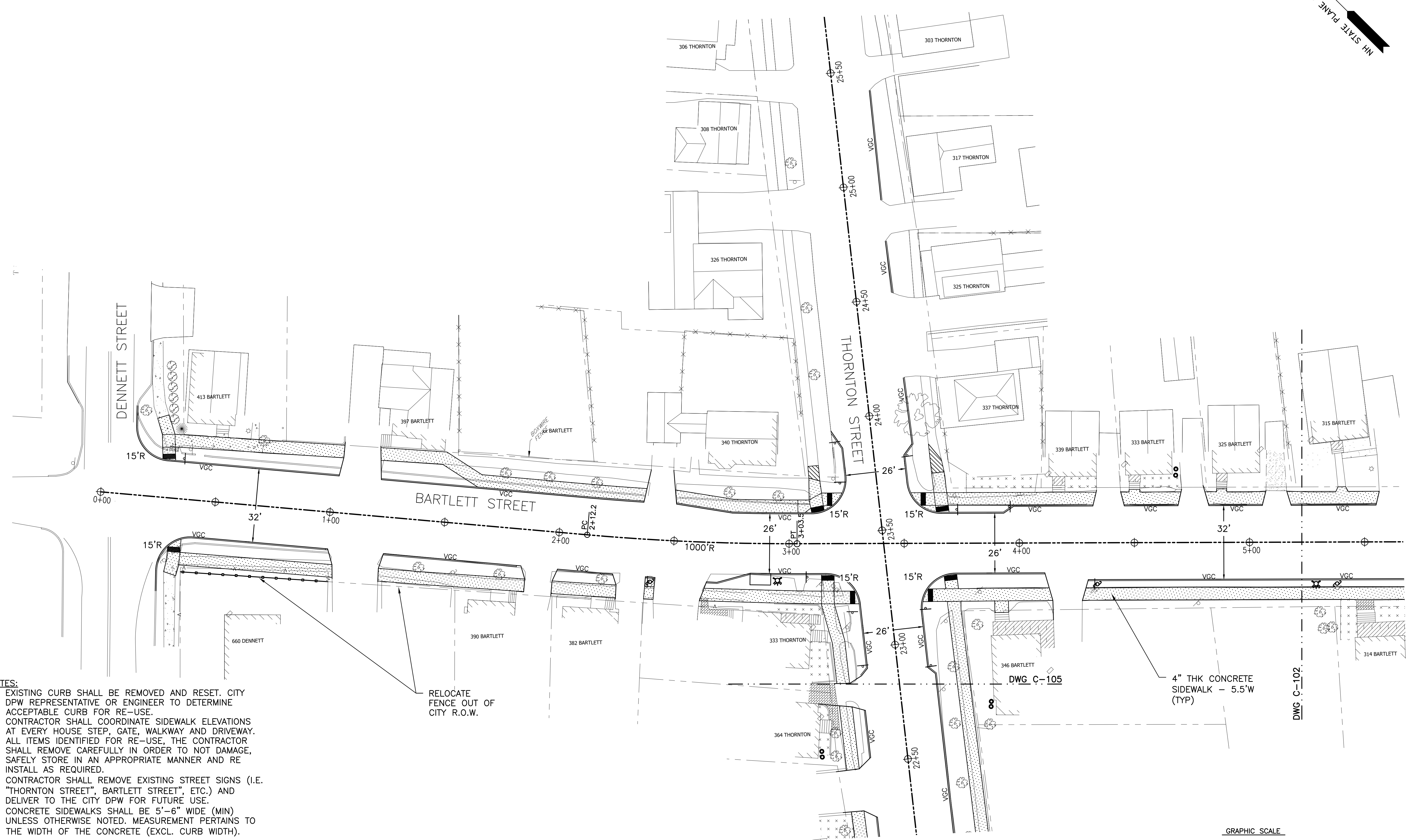
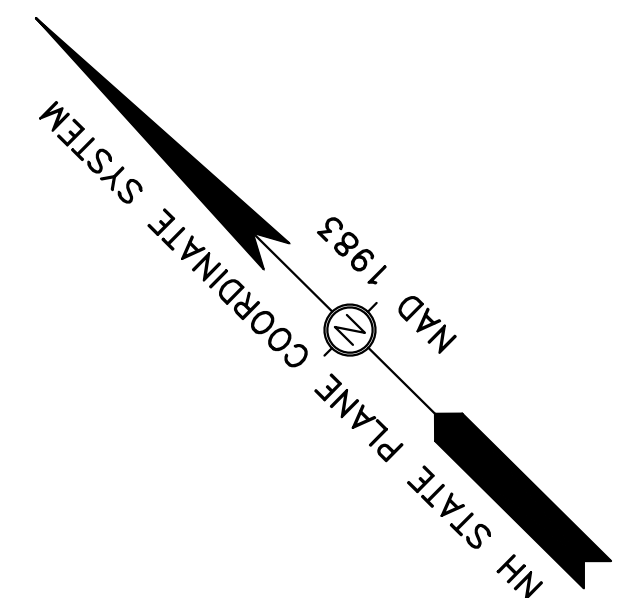
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

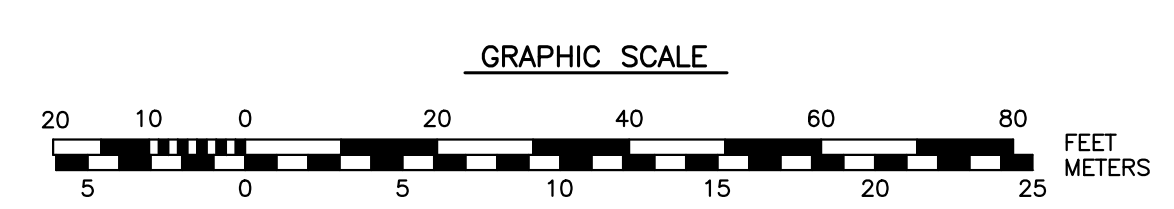


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: OVERALL ROADWAY LAYOUT & PAVEMENT PLAN
SHEET: C-100



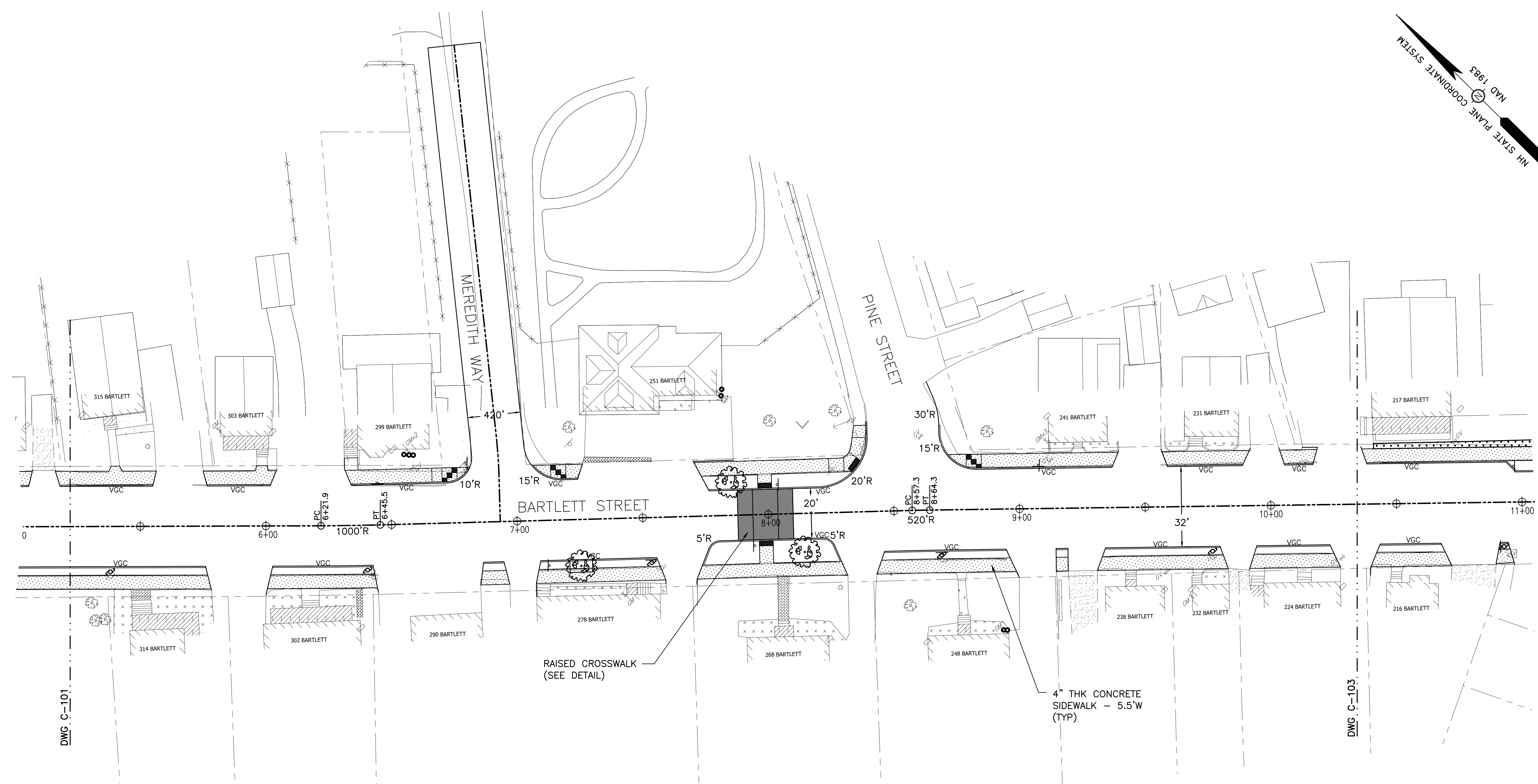
- NOTES:**
1. EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 2. CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 3. ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE-INSTALL AS REQUIRED.
 4. CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 5. CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).



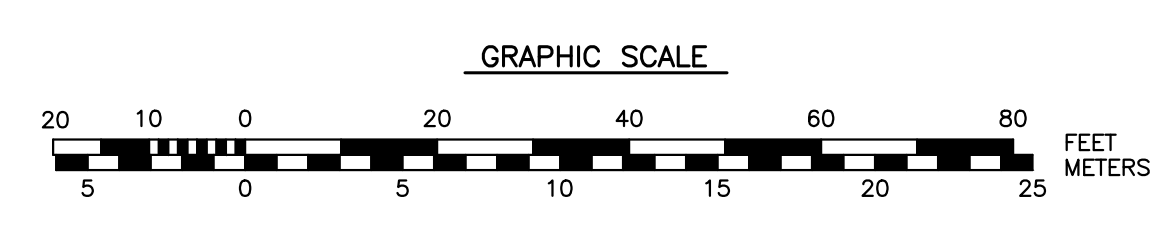
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630		DATE: JANUARY 2023 SCALE: AS SHOWN PROJ. NO.: 7238 APVD BY: MRB	PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: ROADWAY LAYOUT PLAN
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

SHEET: C-101

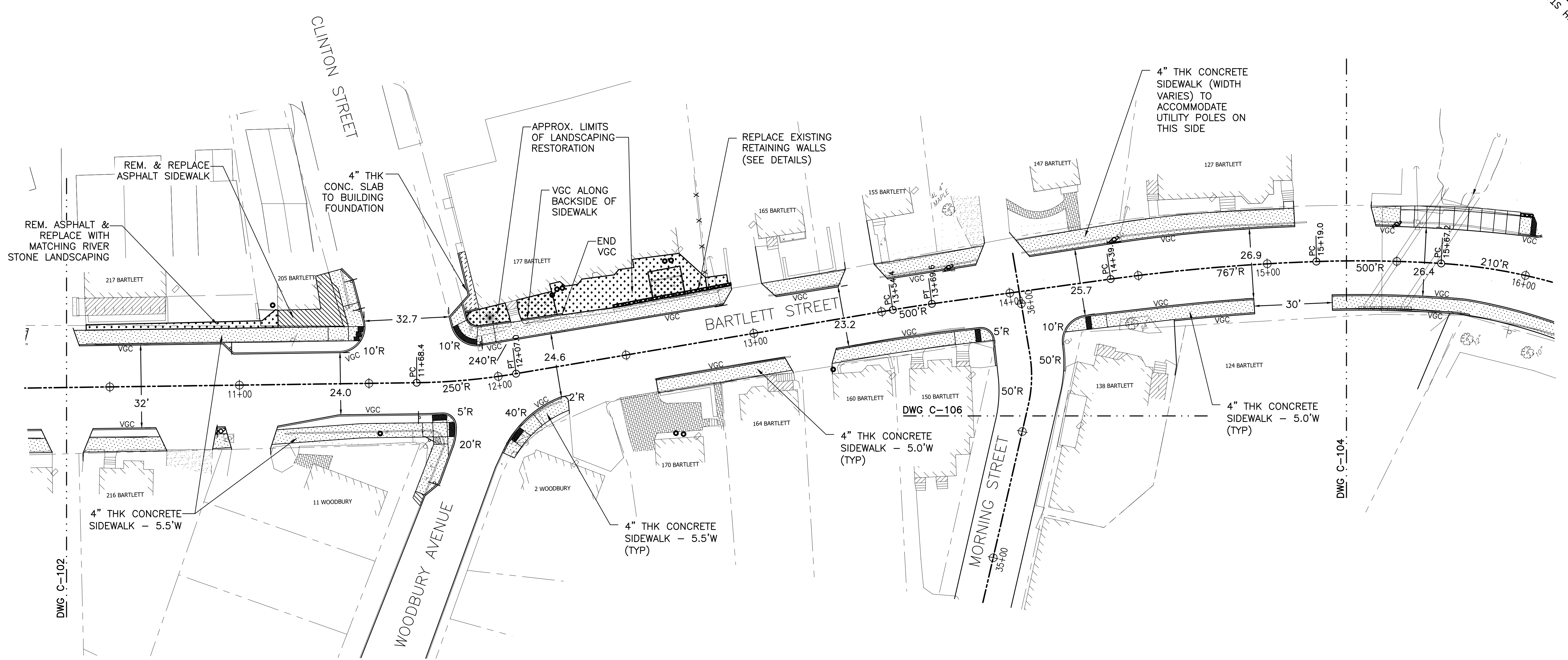
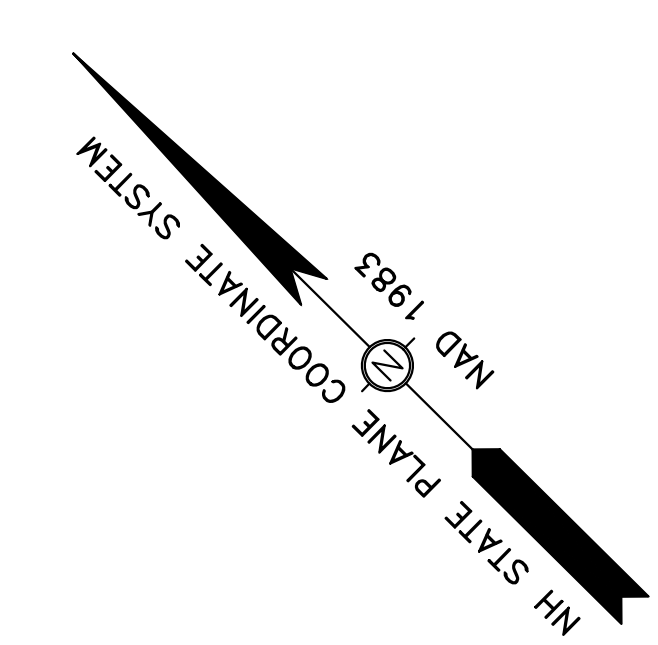
NH STATE PLANE COORDINATE SYSTEM
MAD 1983



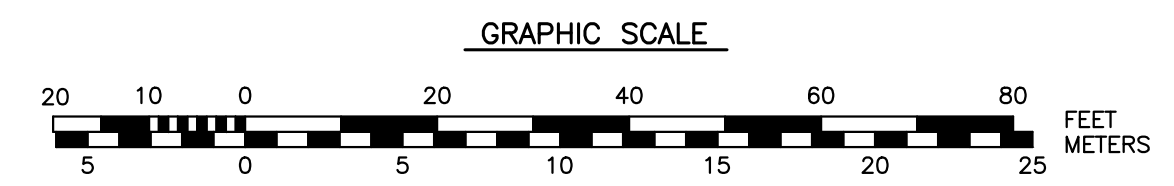
- NOTES:**
- EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 - CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 - ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE INSTALL AS REQUIRED.
 - CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 - CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).



DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630		NO. 2 NO. 0 NO.	ISSUED FOR CONSTRUCTION ISSUED FOR BID REVISIONS	MRB 3/21/24 MRB 12/9/23 APPD DATE
DATE: JANUARY 2023 SCALE: AS SHOWN PROJ. NO.: 7238 APVD BY: MRB		PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: ROADWAY LAYOUT PLAN		
PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: ROADWAY LAYOUT PLAN		SHEET: C-102		

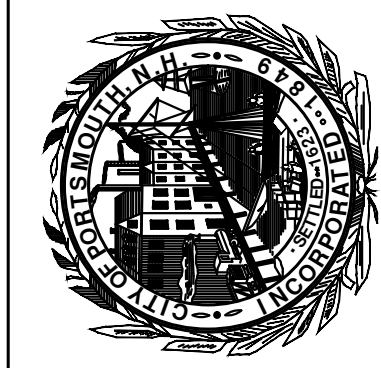


- NOTES:**
- EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 - CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 - ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE INSTALL AS REQUIRED.
 - CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 - CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).
 - CONTRACTOR SHALL COORDINATE LANDSCAPING RESTORATION WITH PROPERTY OWNER AND CITY DPW.



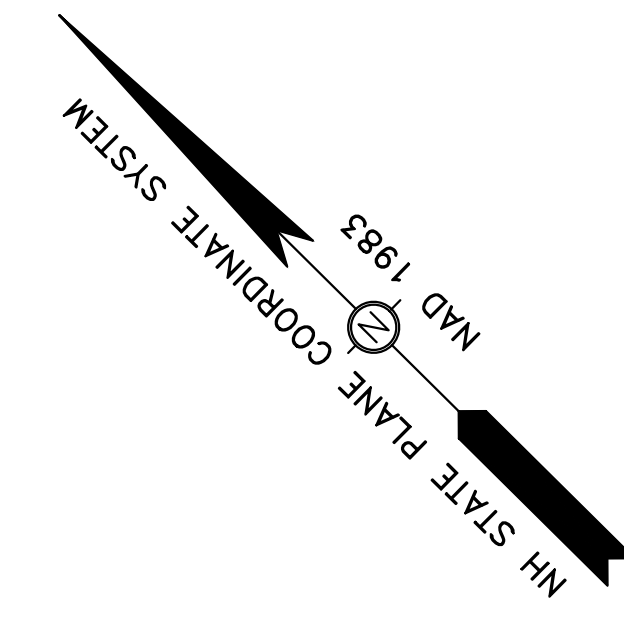
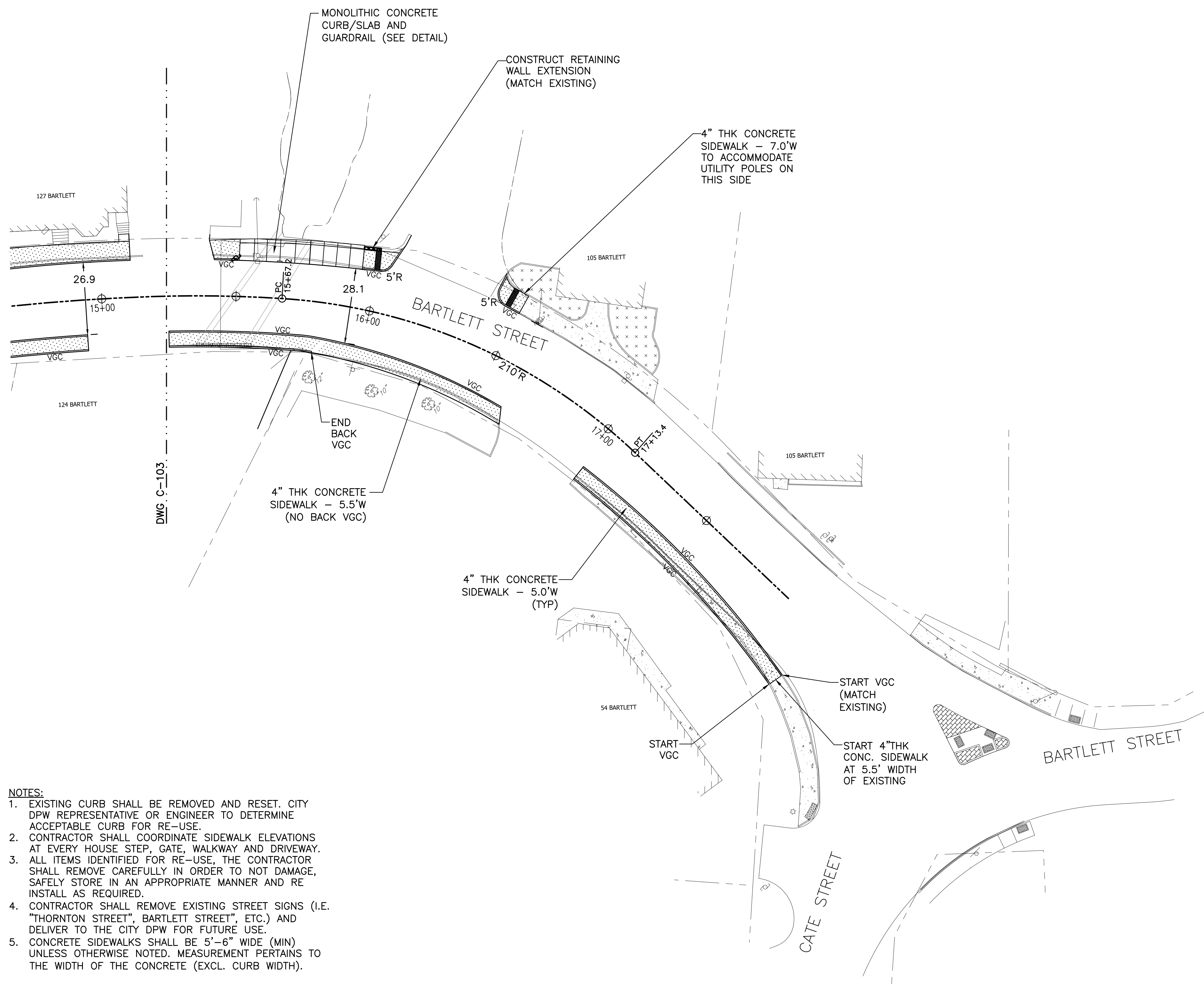
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530

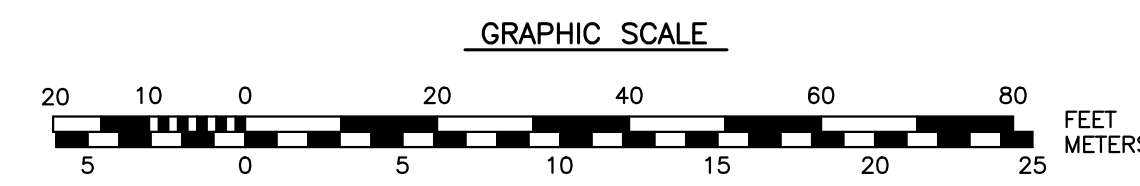


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: ROADWAY LAYOUT PLAN



- NOTES:**
- EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 - CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 - ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE INSTALL AS REQUIRED.
 - CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 - CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).



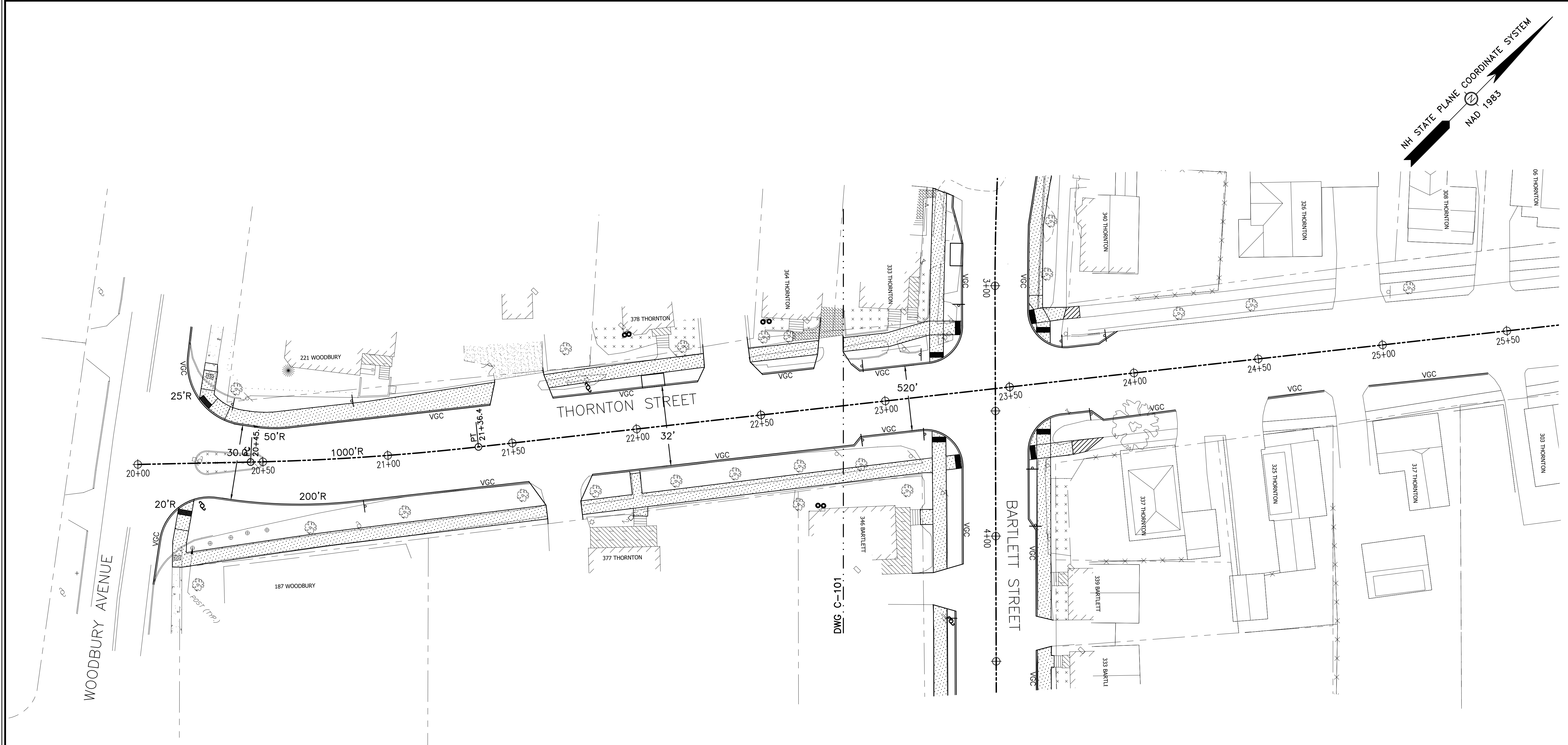
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

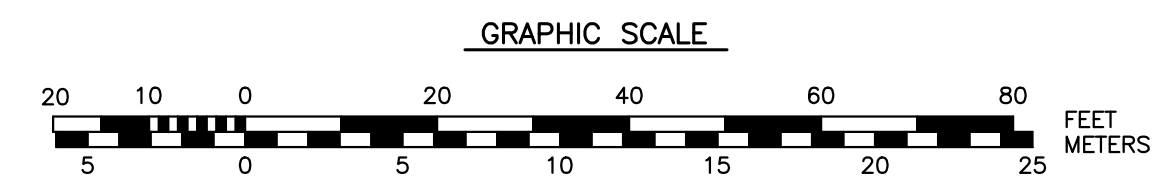


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: ROADWAY LAYOUT PLAN

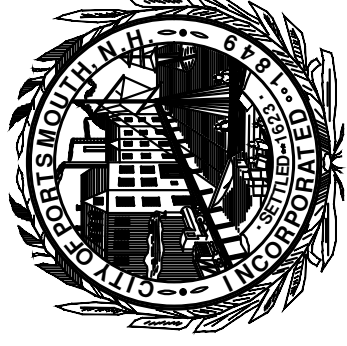


- NOTES:**
1. EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 2. CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 3. ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE-INSTALL AS REQUIRED.
 4. CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 5. CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).



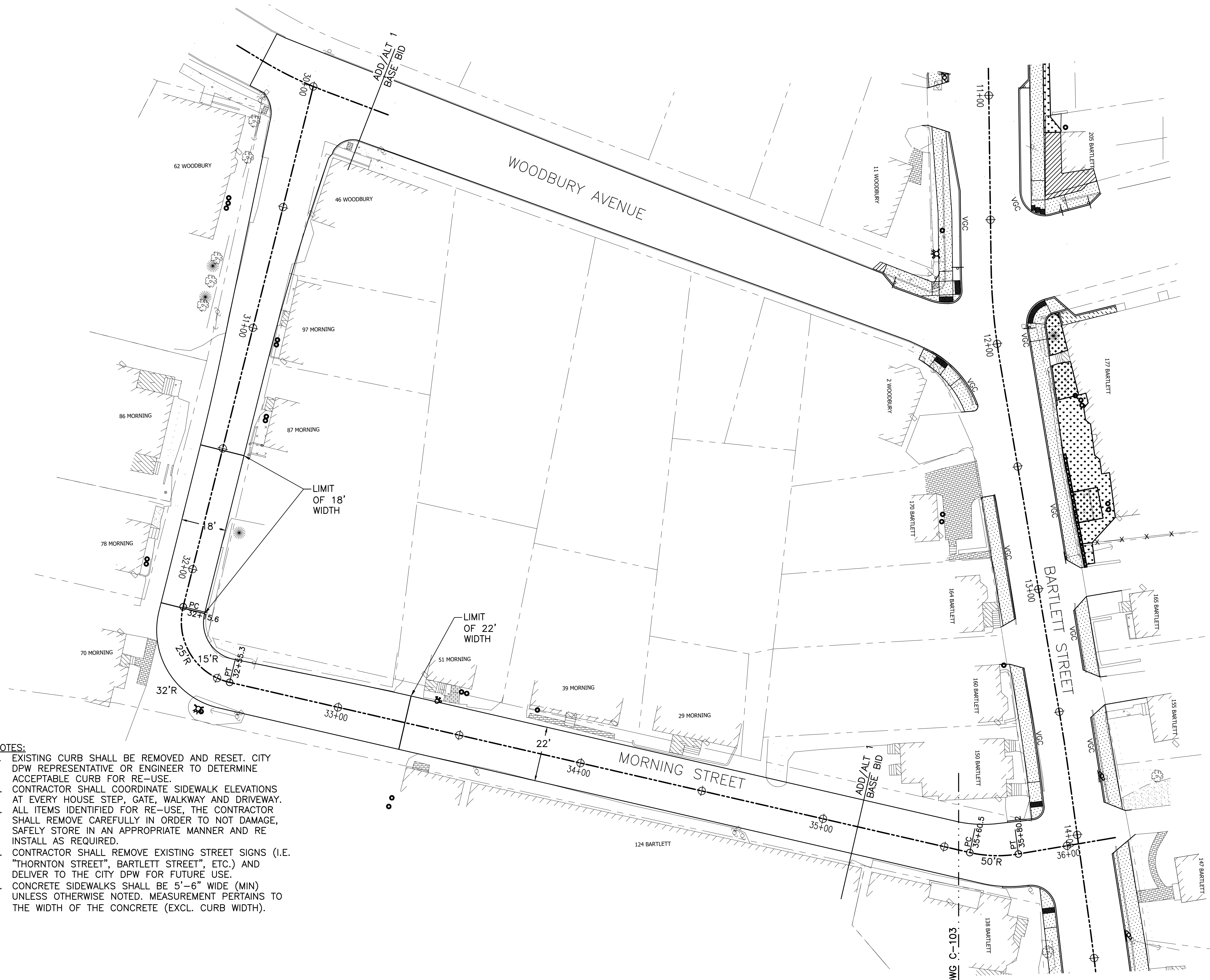
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

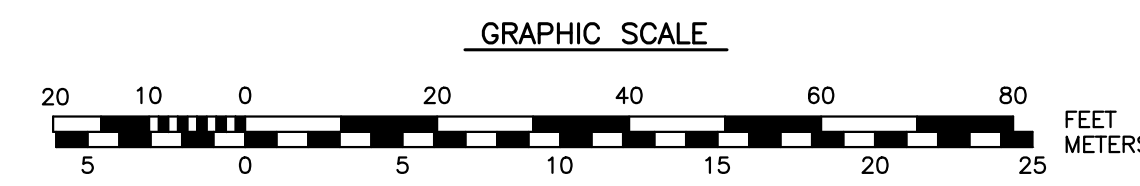
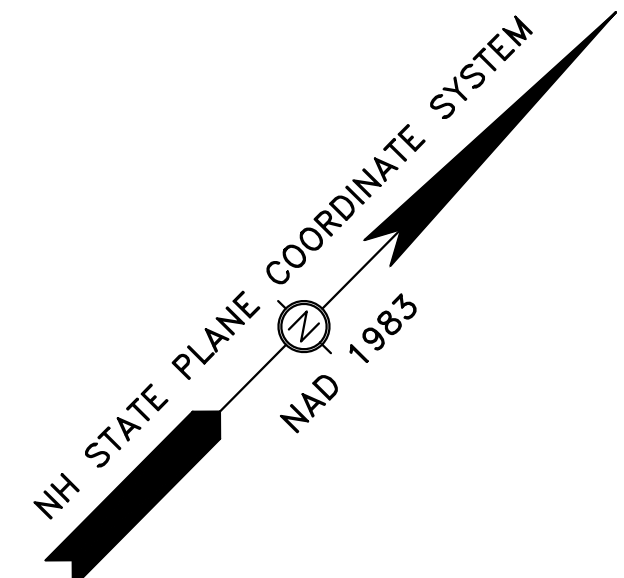


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: ROADWAY LAYOUT PLAN
SHEET: C-105

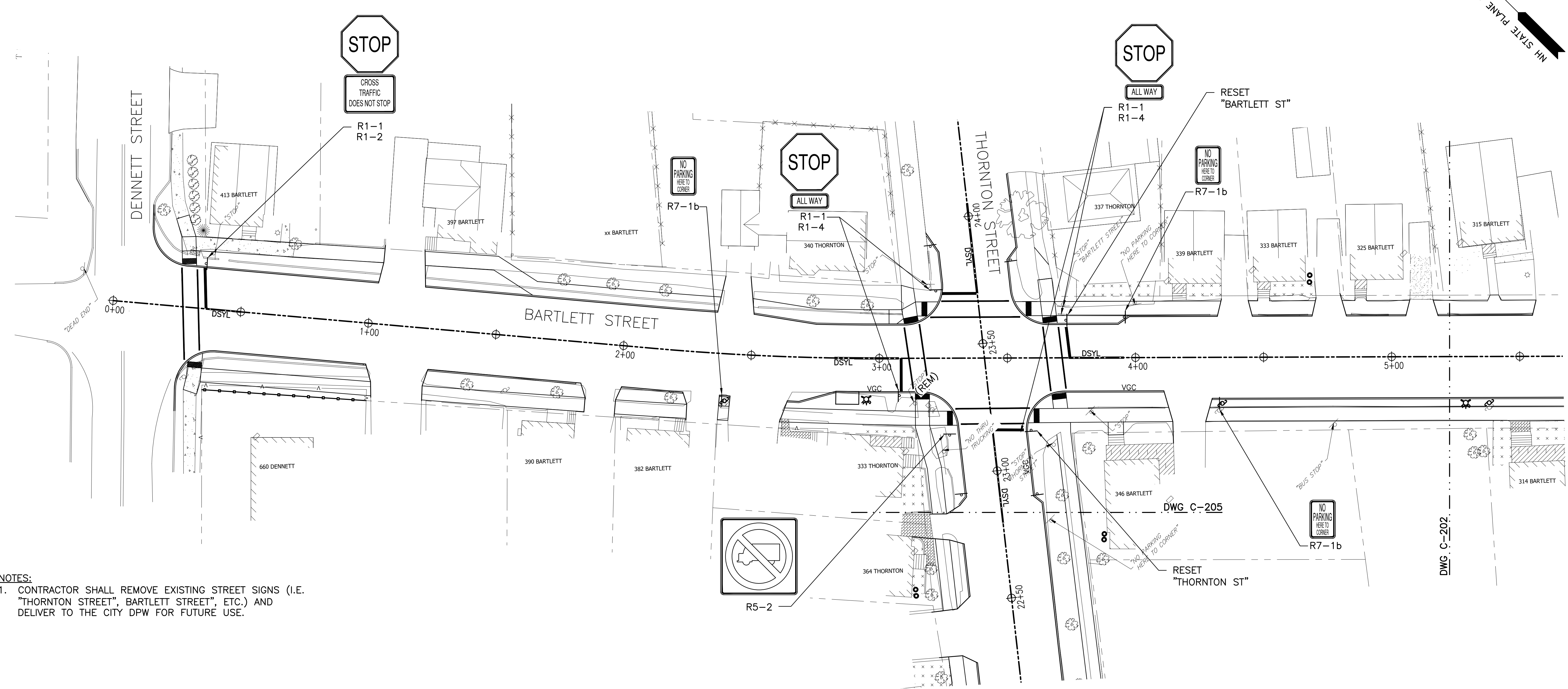


- NOTES:
- EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 - CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 - ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE INSTALL AS REQUIRED.
 - CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 - CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).

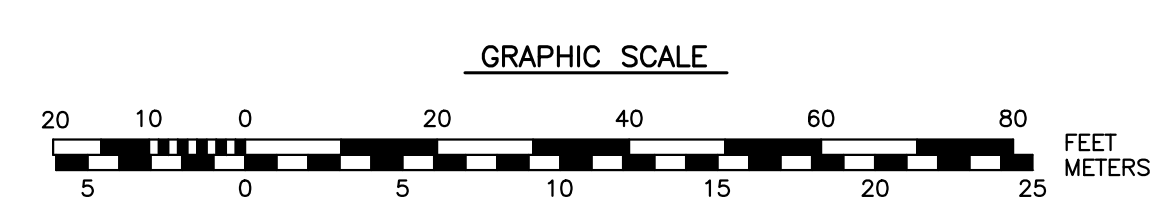


PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: ROADWAY LAYOUT PLAN		DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1530		NO. 2 NO. 0	REVISIONS ISSUED FOR CONSTRUCTION ISSUED FOR BID	DATE 3/21/24 12/9/23
DATE: JANUARY 2023 SCALE: AS SHOWN PROJ. NO.: 7238 APVD BY: MRB						
DWG. C-103		C-106				

NH STATE PLANE COORDINATE SYSTEM
MAD 1983



NOTES:
1. CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

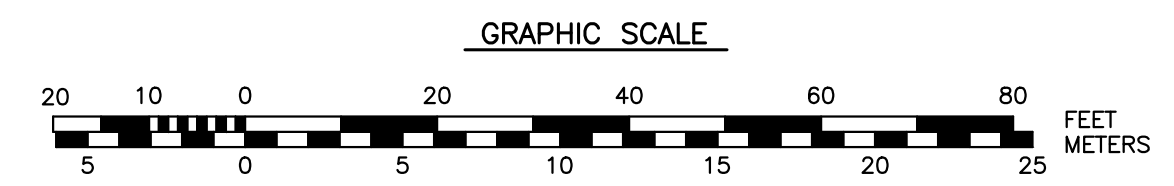
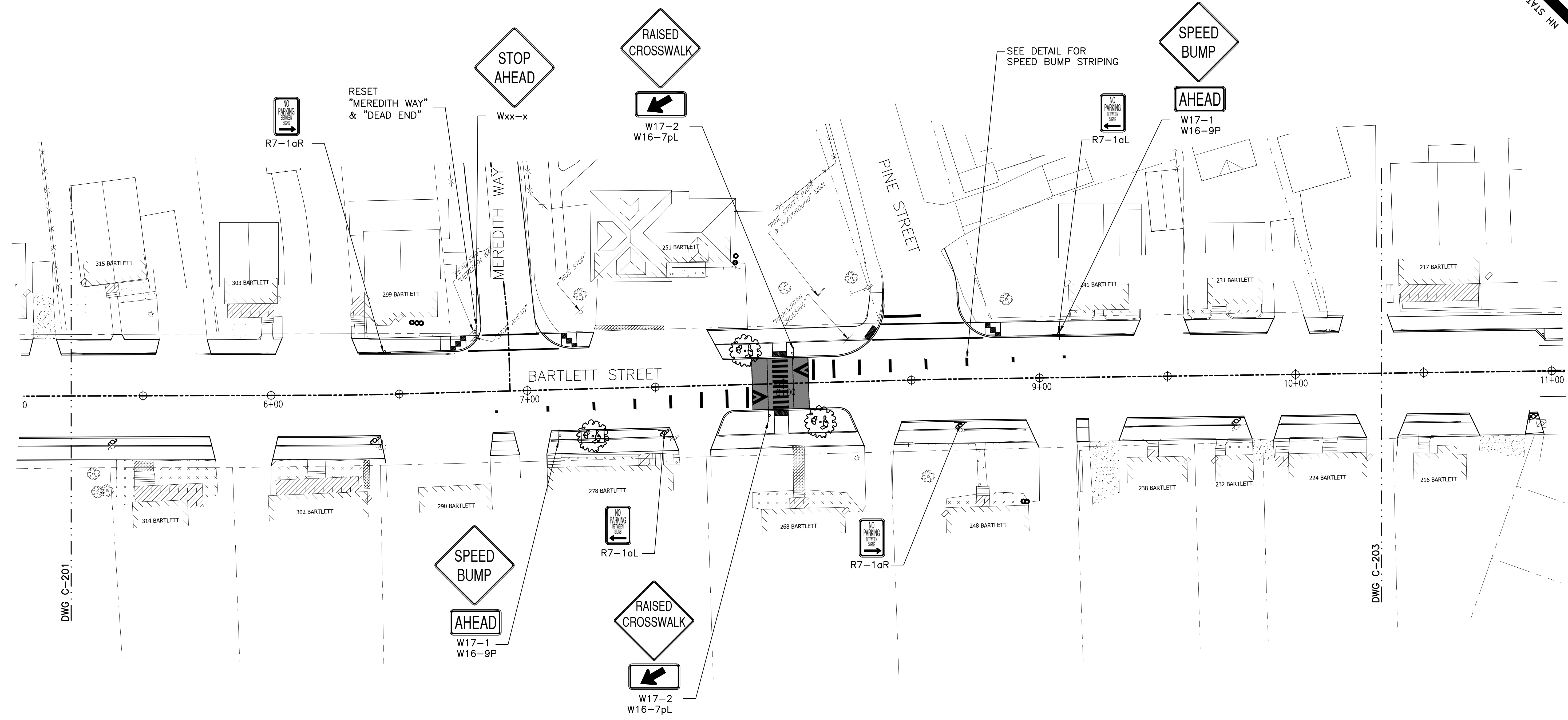
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: ROADWAY STRIPING & SIGNAGE PLAN
SHEET: C-201

NH STATE PLANE COORDINATE SYSTEM
 NAD 1983



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

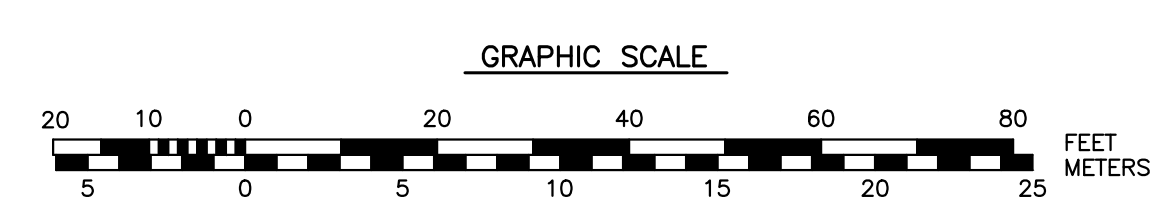
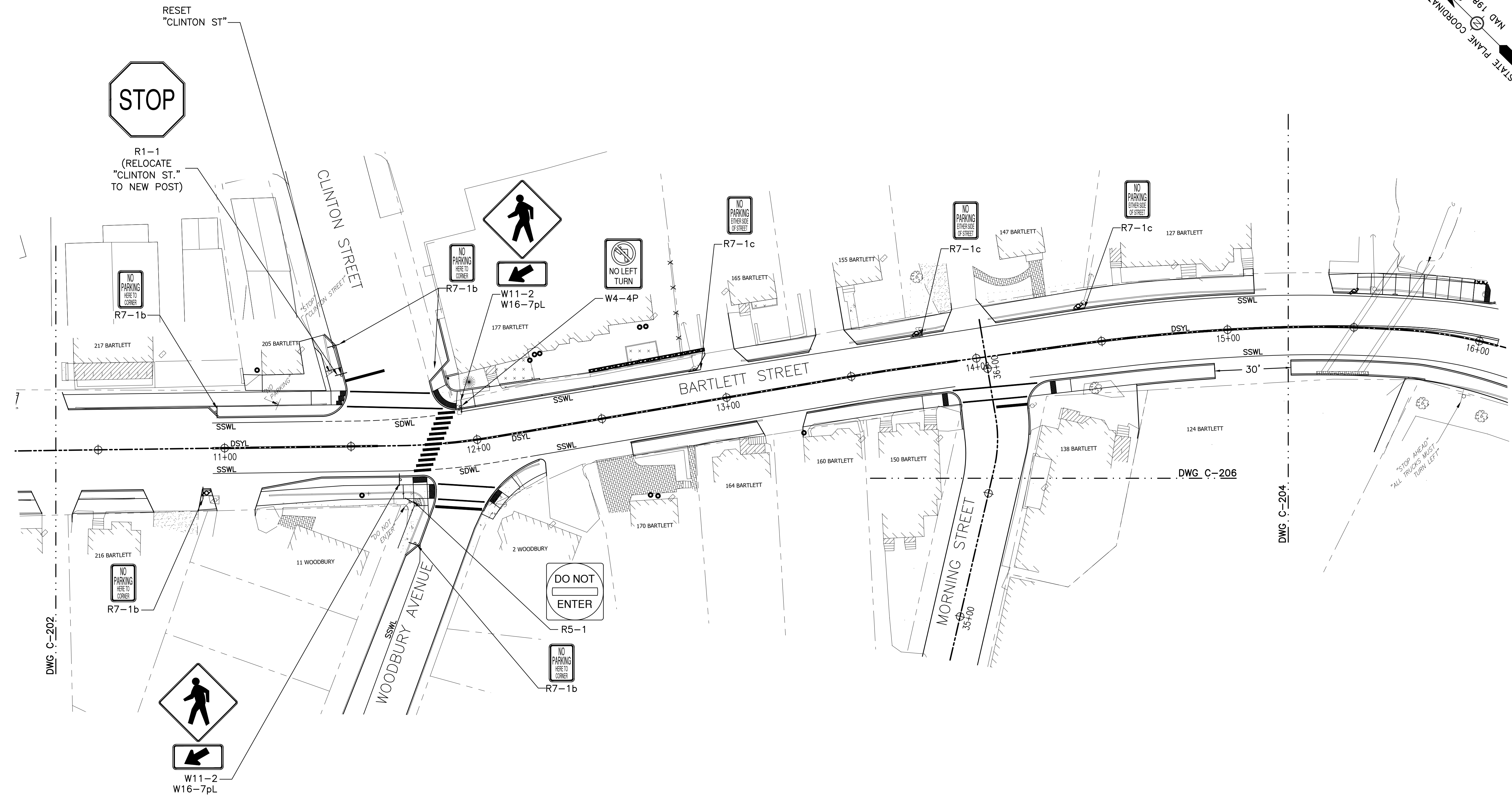
DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1630



DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

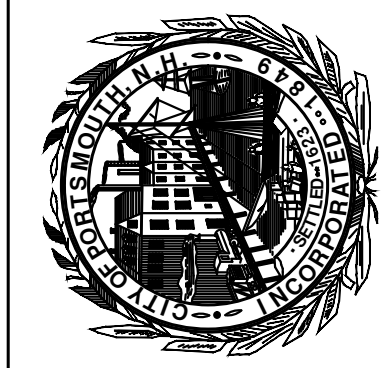
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: ROADWAY STRIPING & SIGNAGE PLAN
 SHEET: C-202

NH STATE PLANE COORDINATE SYSTEM
 NAD 1983



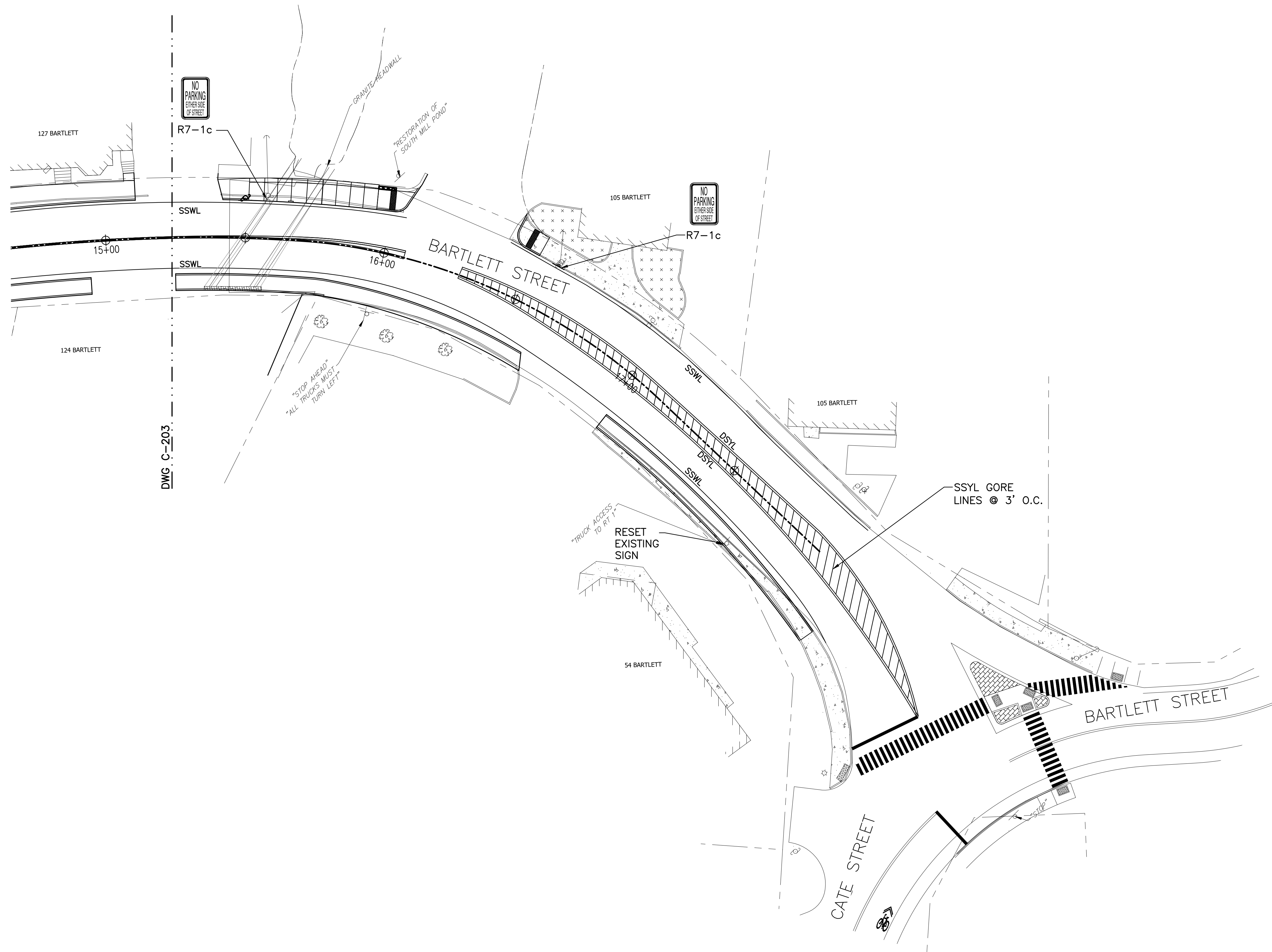
NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	3/21/24
0	ISSUED FOR BID	12/9/23

DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1530

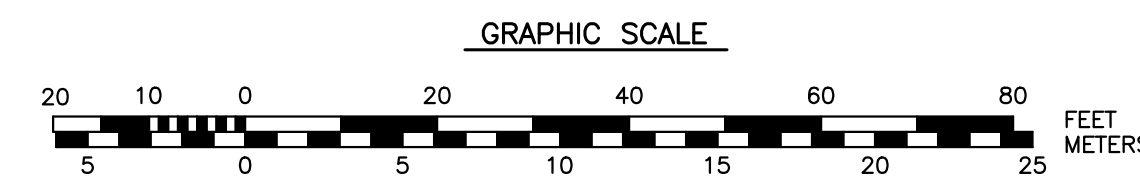
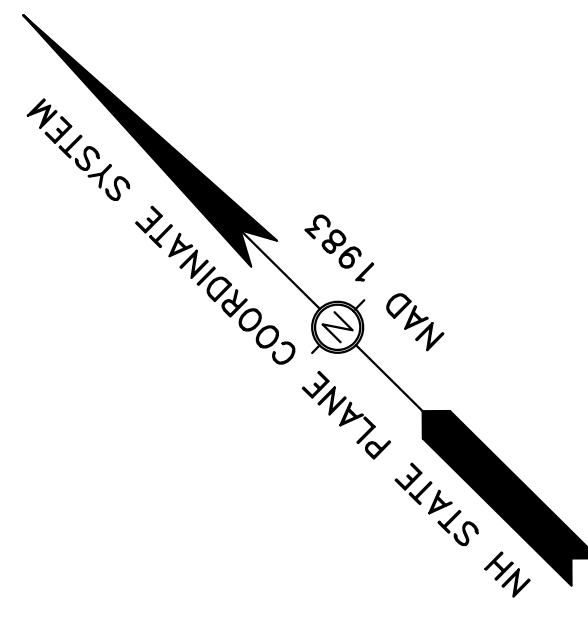


DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: ROADWAY STRIPING & SIGNAGE PLAN
 SHEET: C-203

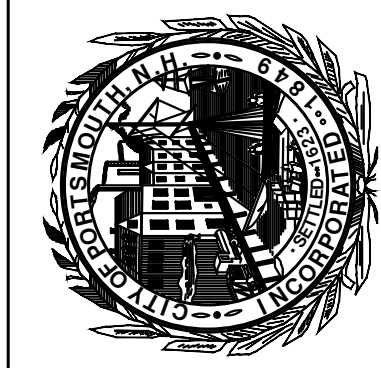


DWG. C-203



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

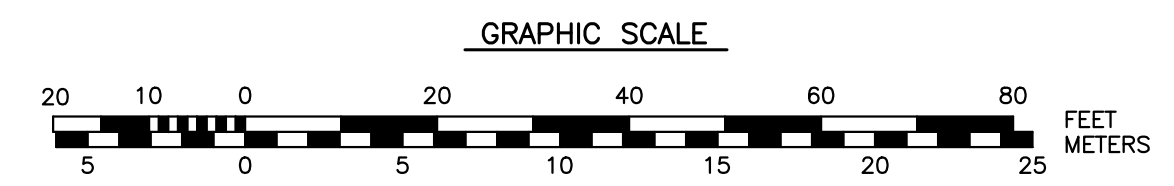
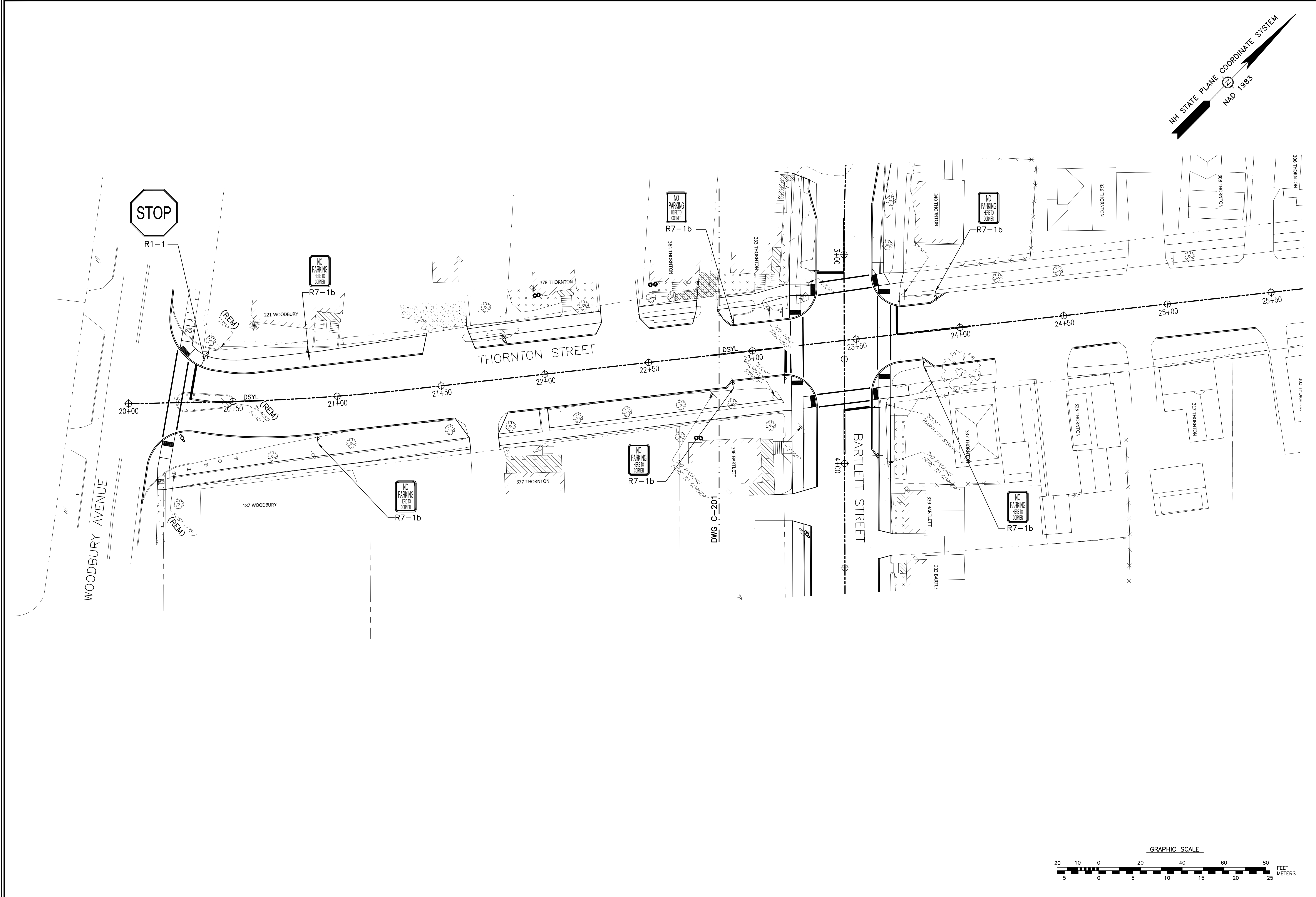
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



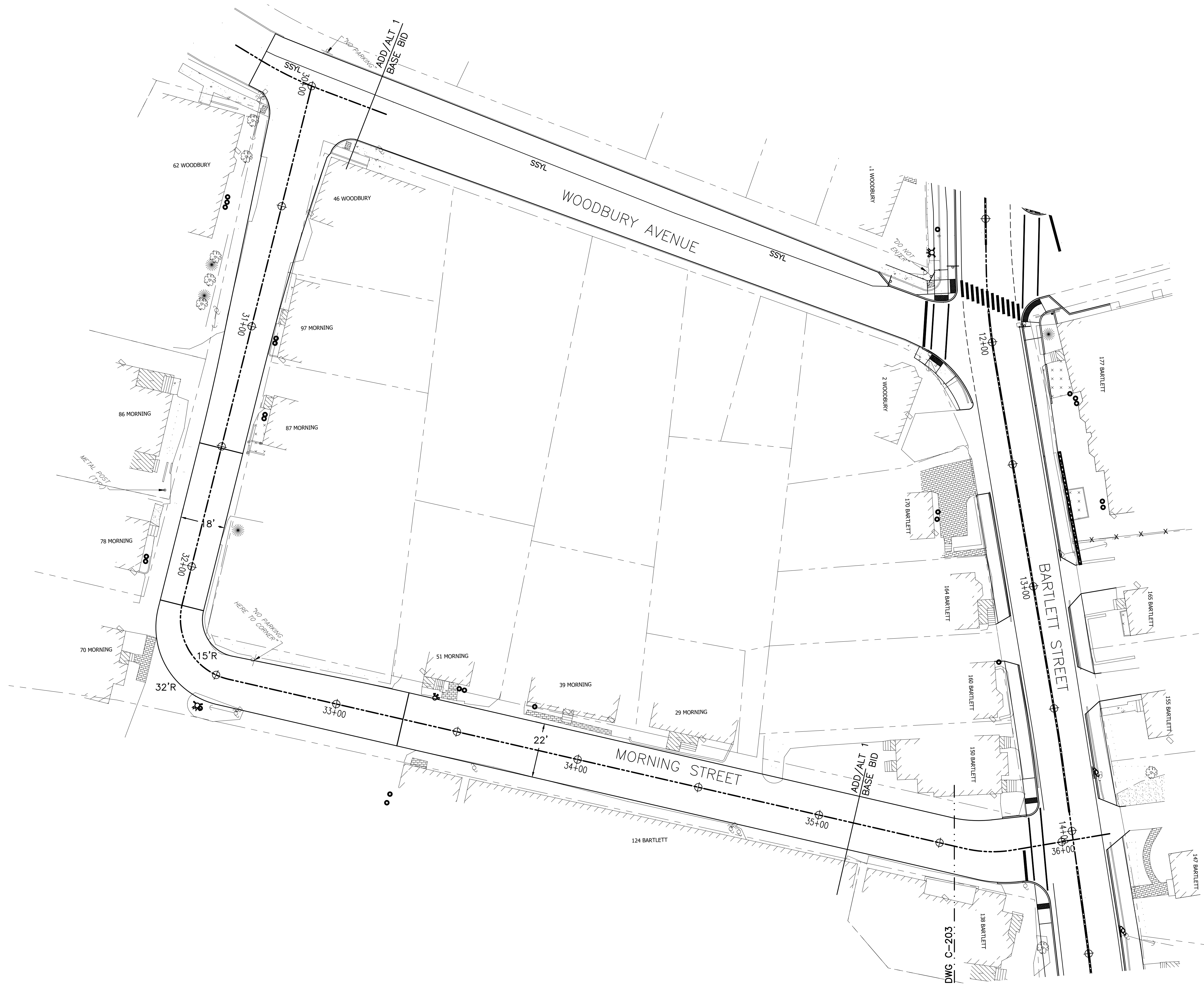
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: ROADWAY STRIPING & SIGNAGE PLAN

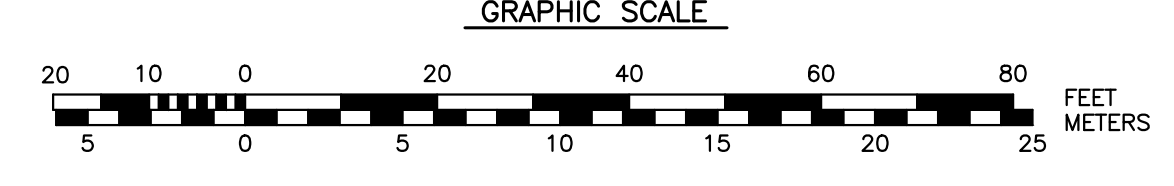
SHEET: C-204



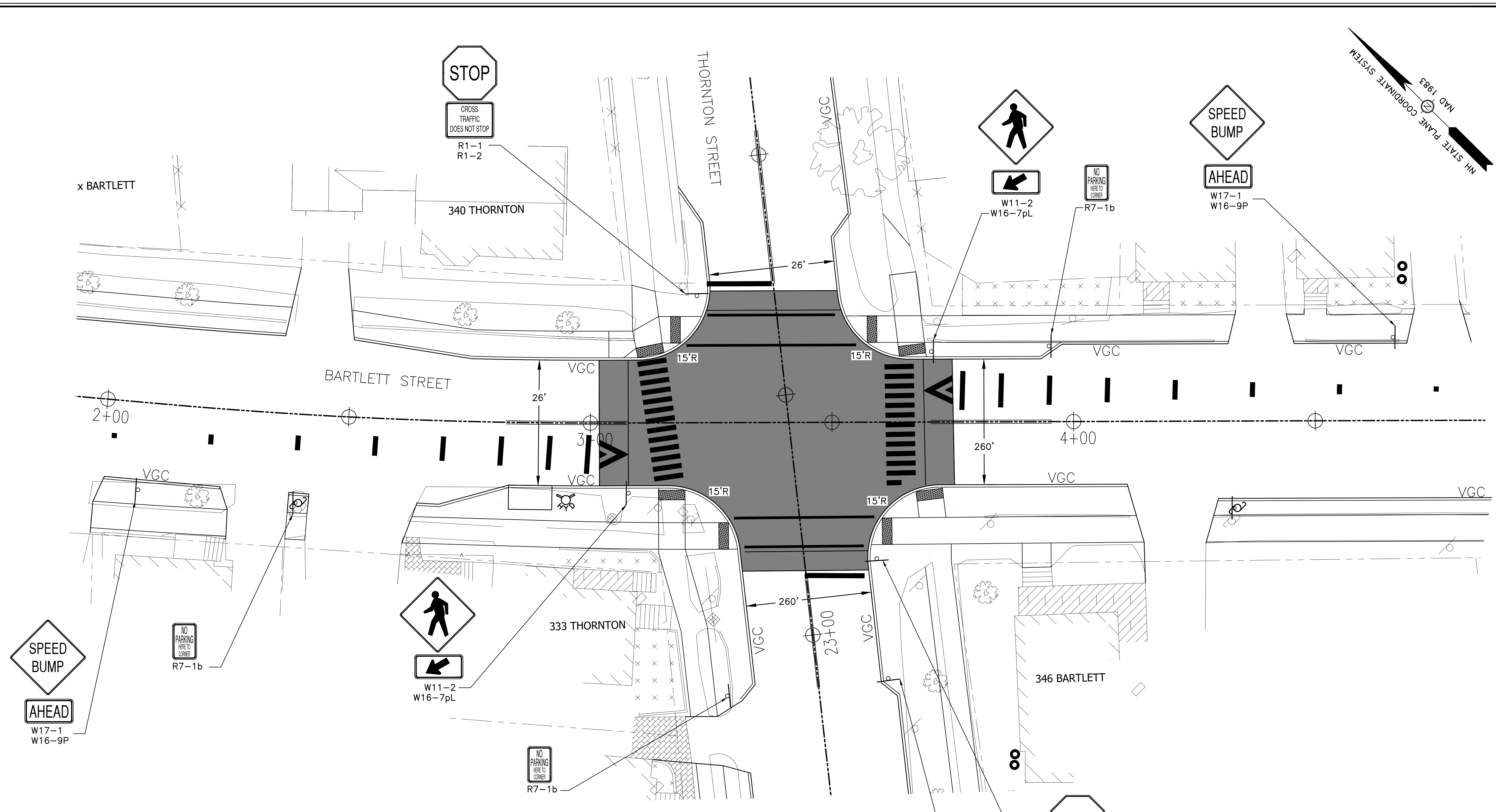
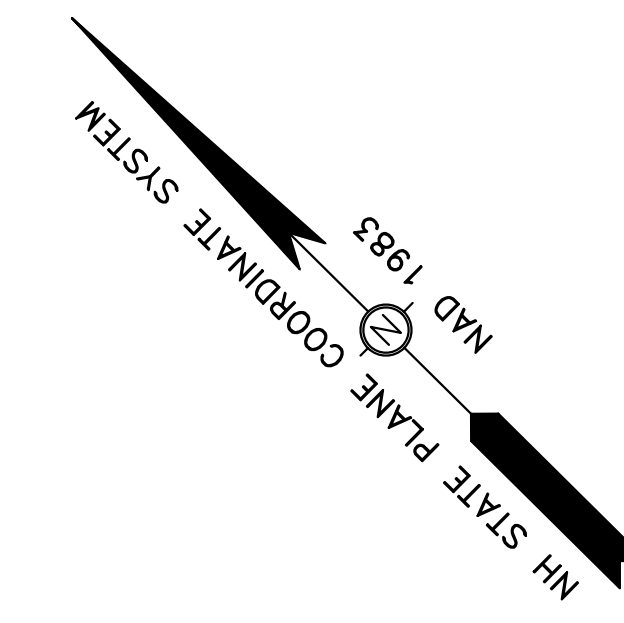
PROJECT: BARTLETT STREET AREA RECONSTRUCTION		DATE: JANUARY 2023	
TITLE: ROADWAY STRIPING & SIGNAGE PLAN		SCALE: AS SHOWN	
SHEET: C-205		PROJ. NO.: 7238	
		APVD BY: MRB	
		DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630	
		NO.	REVISIONS
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23
		APPD	DATE



NH STATE PLANE COORDINATE SYSTEM
 NAD 1983

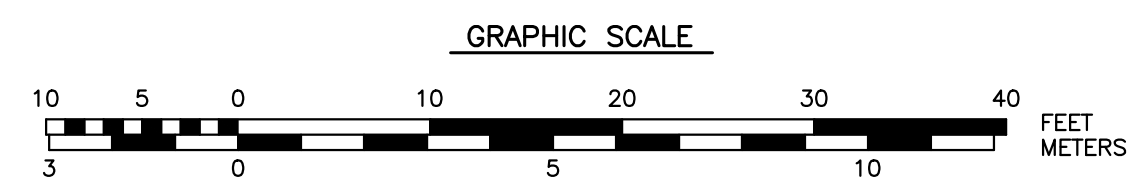


PROJECT: BARTLETT STREET AREA RECONSTRUCTION		DATE: JANUARY 2023	
TITLE: ROADWAY STRIPING & SIGNAGE PLAN		SCALE: AS SHOWN	
SHEET: C-206		PROJ. NO.: 7238	
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630		APVD BY: MRB	
NO. 2		ISSUED FOR CONSTRUCTION	
NO. 0		ISSUED FOR BID	
REVISIONS		APPD	
NO.		DATE	
NO.		3/21/24	
NO.		12/9/23	



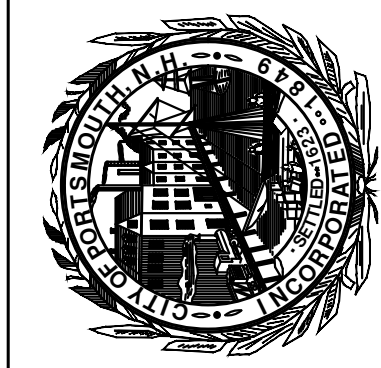
- NOTES:**
- EXISTING CURB SHALL BE REMOVED AND RESET. CITY DPW REPRESENTATIVE OR ENGINEER TO DETERMINE ACCEPTABLE CURB FOR RE-USE.
 - CONTRACTOR SHALL COORDINATE SIDEWALK ELEVATIONS AT EVERY HOUSE STEP, GATE, WALKWAY AND DRIVEWAY.
 - ALL ITEMS IDENTIFIED FOR RE-USE, THE CONTRACTOR SHALL REMOVE CAREFULLY IN ORDER TO NOT DAMAGE, SAFELY STORE IN AN APPROPRIATE MANNER AND RE INSTALL AS REQUIRED.
 - CONTRACTOR SHALL REMOVE EXISTING STREET SIGNS (I.E. "THORNTON STREET", "BARTLETT STREET", ETC.) AND DELIVER TO THE CITY DPW FOR FUTURE USE.
 - CONCRETE SIDEWALKS SHALL BE 5'-6" WIDE (MIN) UNLESS OTHERWISE NOTED. MEASUREMENT PERTAINS TO THE WIDTH OF THE CONCRETE (EXCL. CURB WIDTH).

- NOTES:**
- SIGNAGE ON THIS PLAN IS SPECIFICALLY FOR THE ADD/ALT SCOPE OF WORK. THE SIGNAGE IS MEANT TO BE USED INSTEAD OF THE 4-WAY "STOP" SIGNAGE FROM THE BASE BID.
 - SEE DETAIL FOR YIELD PAVEMENT MARKINGS AT ROUND-ABOUT ENTRANCES.



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

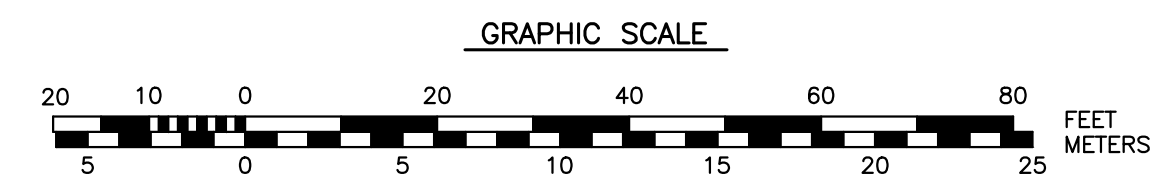
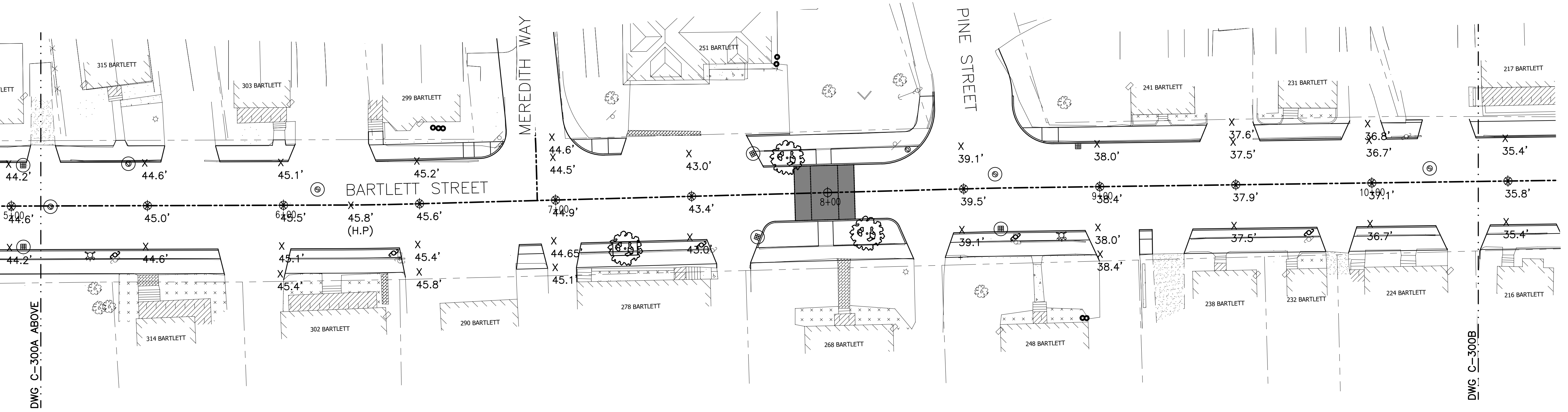
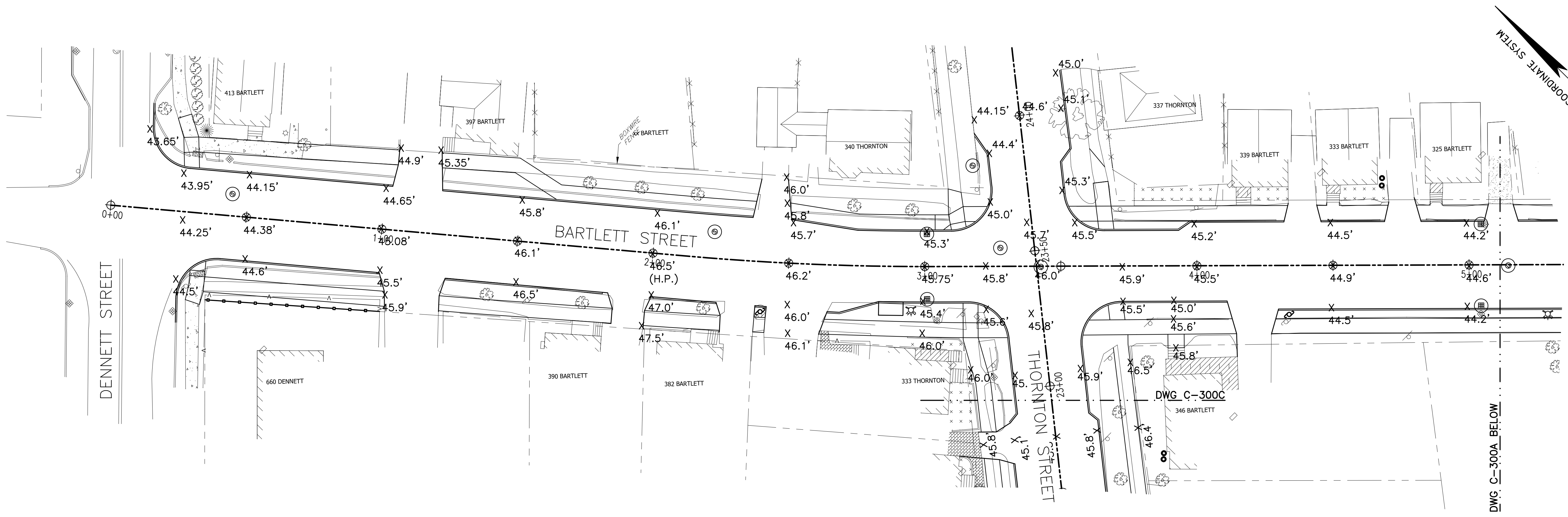
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



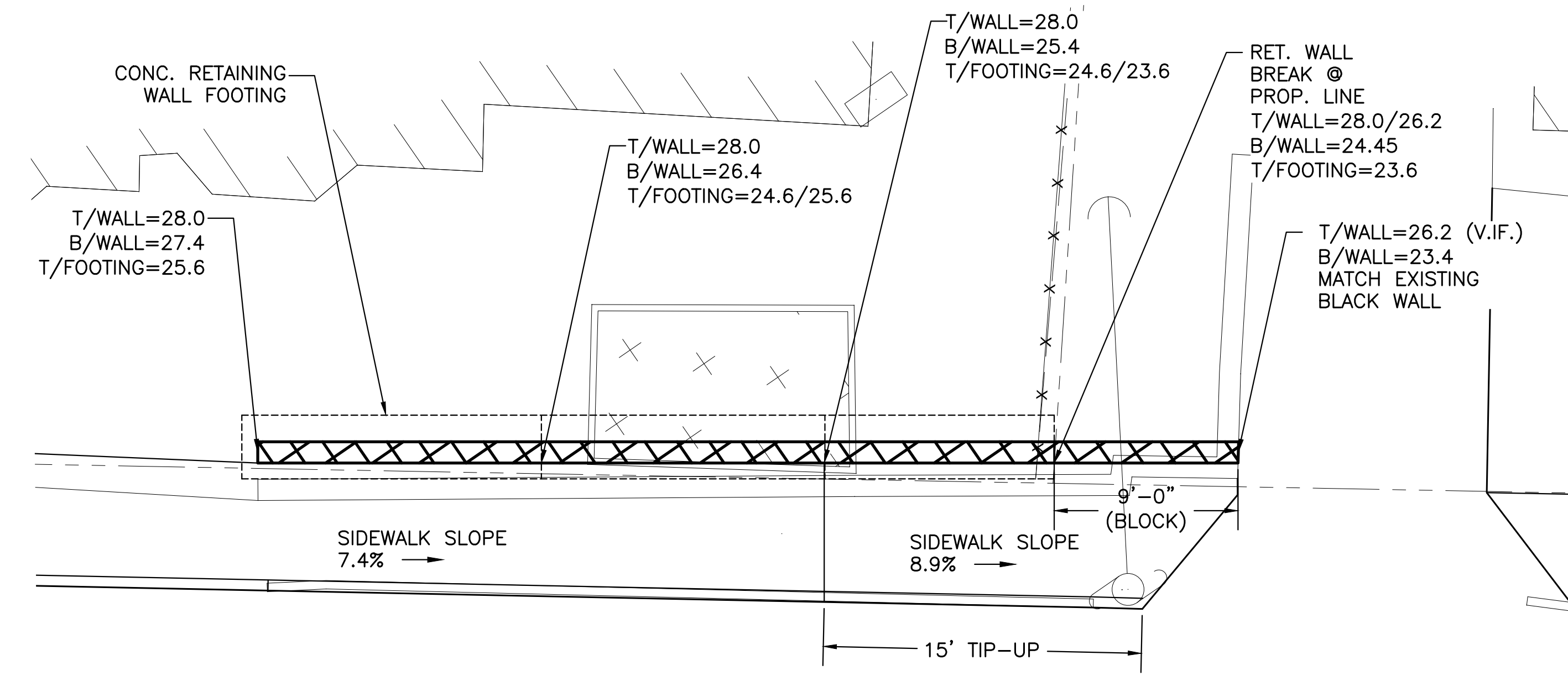
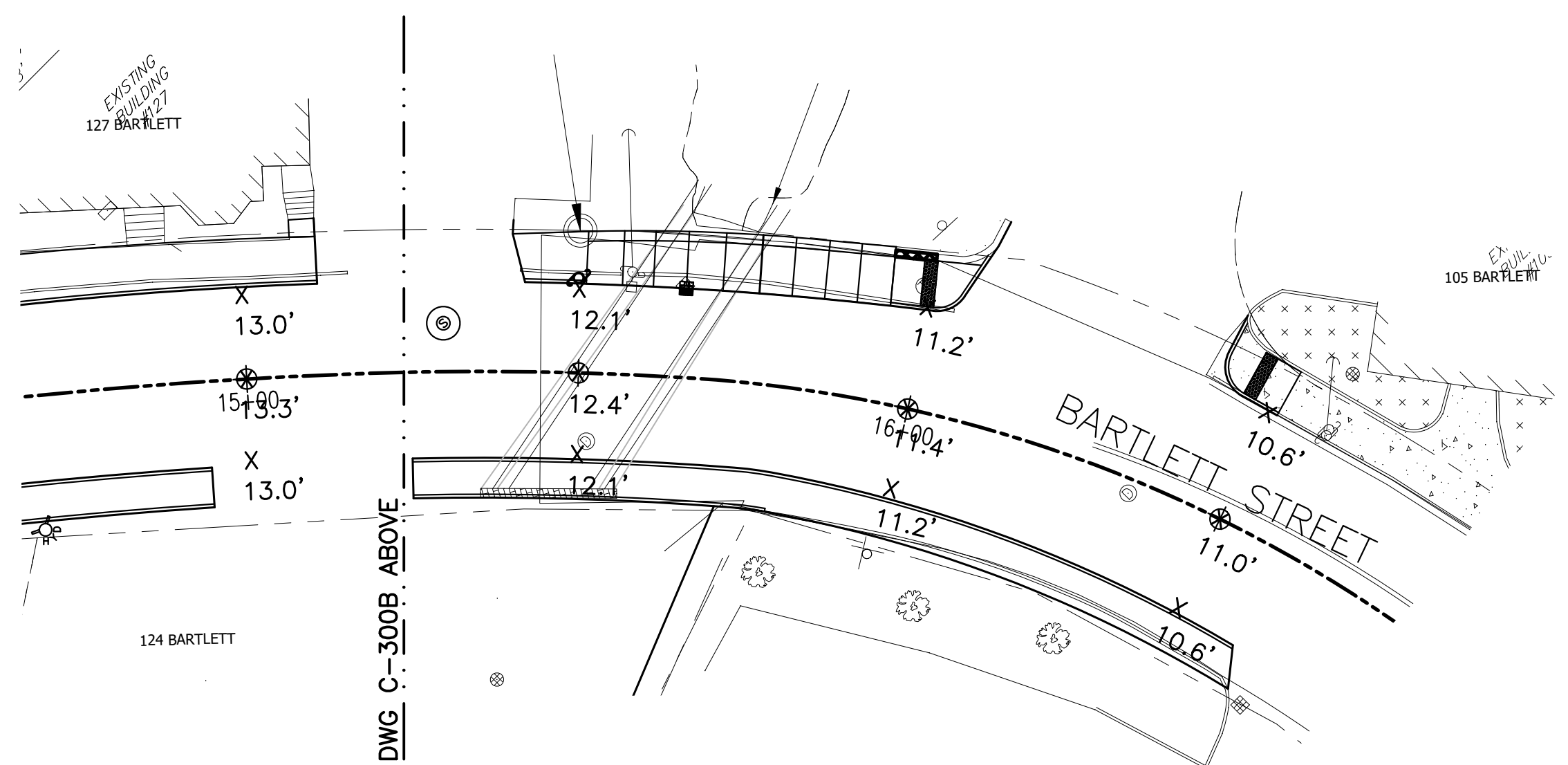
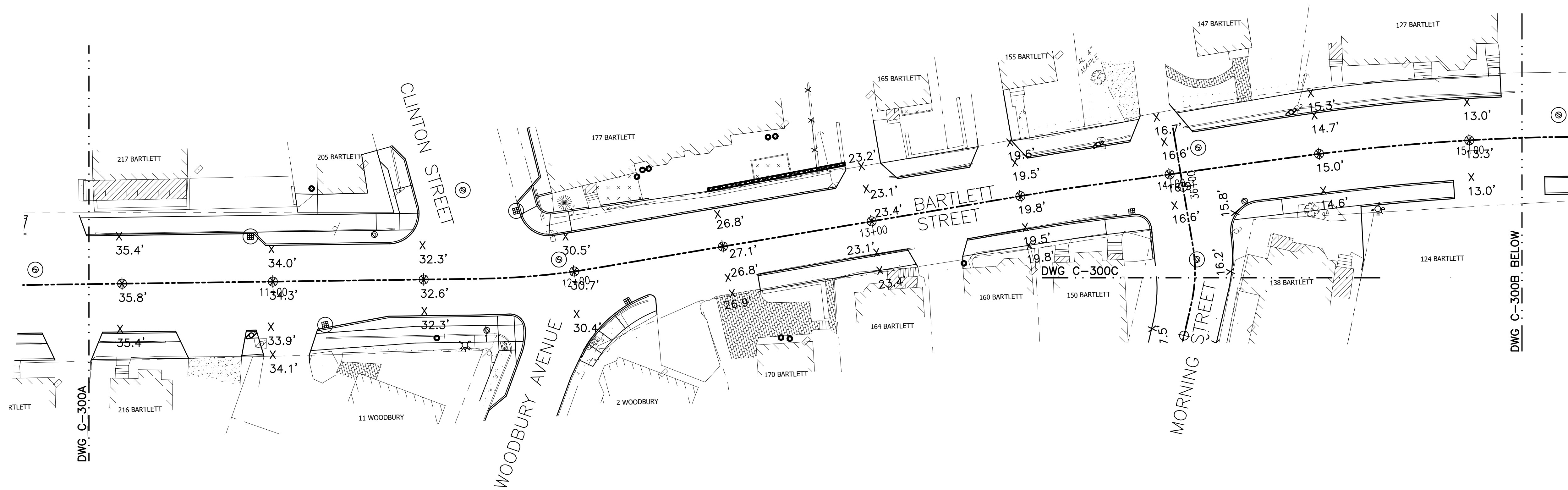
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA
RECONSTRUCTION
TITLE: ADD/ALT 1 - RAISED INTERSECTION
ROADWAY PLAN

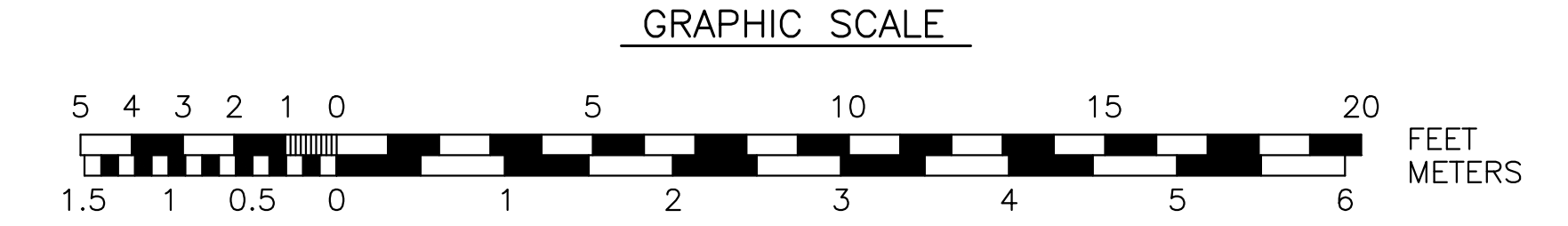
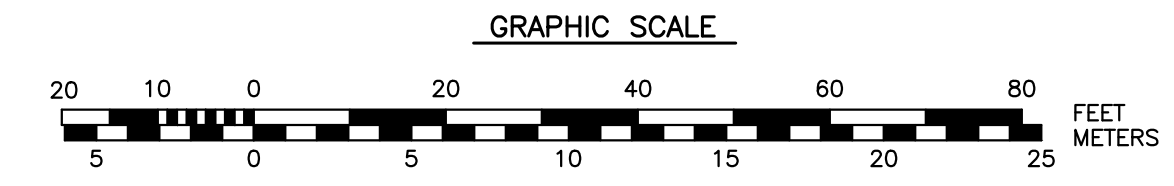
SHEET: C-210



PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
TITLE:	ROADWAY GRADING PLAN		
DATE:	JANUARY 2023	SCALE:	AS SHOWN
PROJ. NO.:	7238	APVD BY:	MRB
ISSUED FOR CONSTRUCTION	2	ISSUED FOR BID	0
NO.		REVISIONS	
APPD	MRB	DATE	3/21/24
APPD	MRB	DATE	12/9/23
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1530			
PROJECT: BARTLETT STREET AREA RECONSTRUCTION SHEET: C-300A			

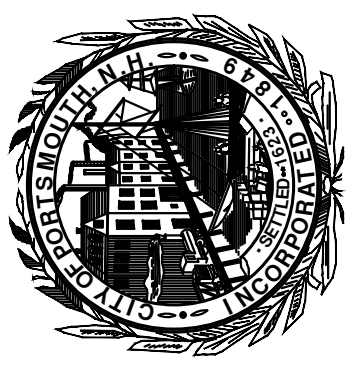


DETAILED GRADING AT 177 BARLETT ST



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

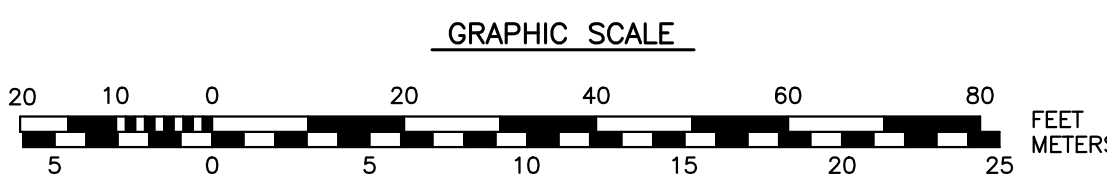
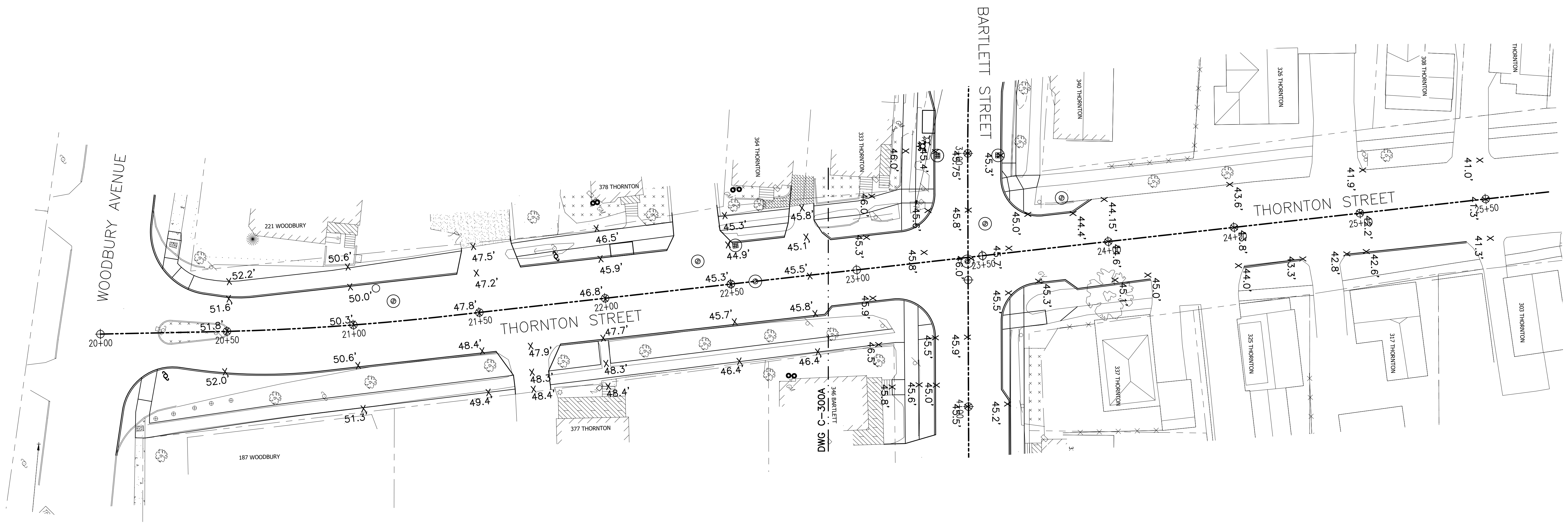


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

BARTLETT STREET AREA RECONSTRUCTION
ROADWAY GRADING PLAN

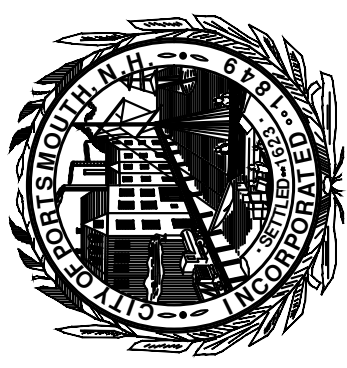
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
SHEET: C-300B

NH STATE PLANE COORDINATE SYSTEM
 NAD 1983



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

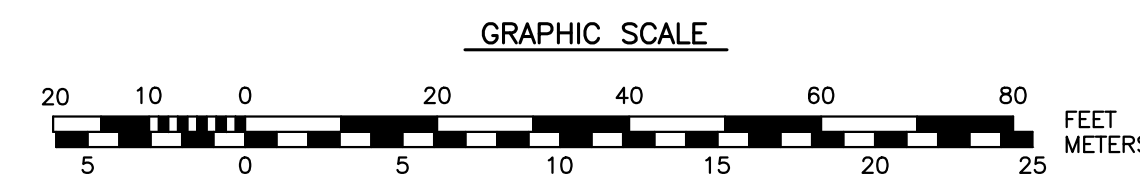
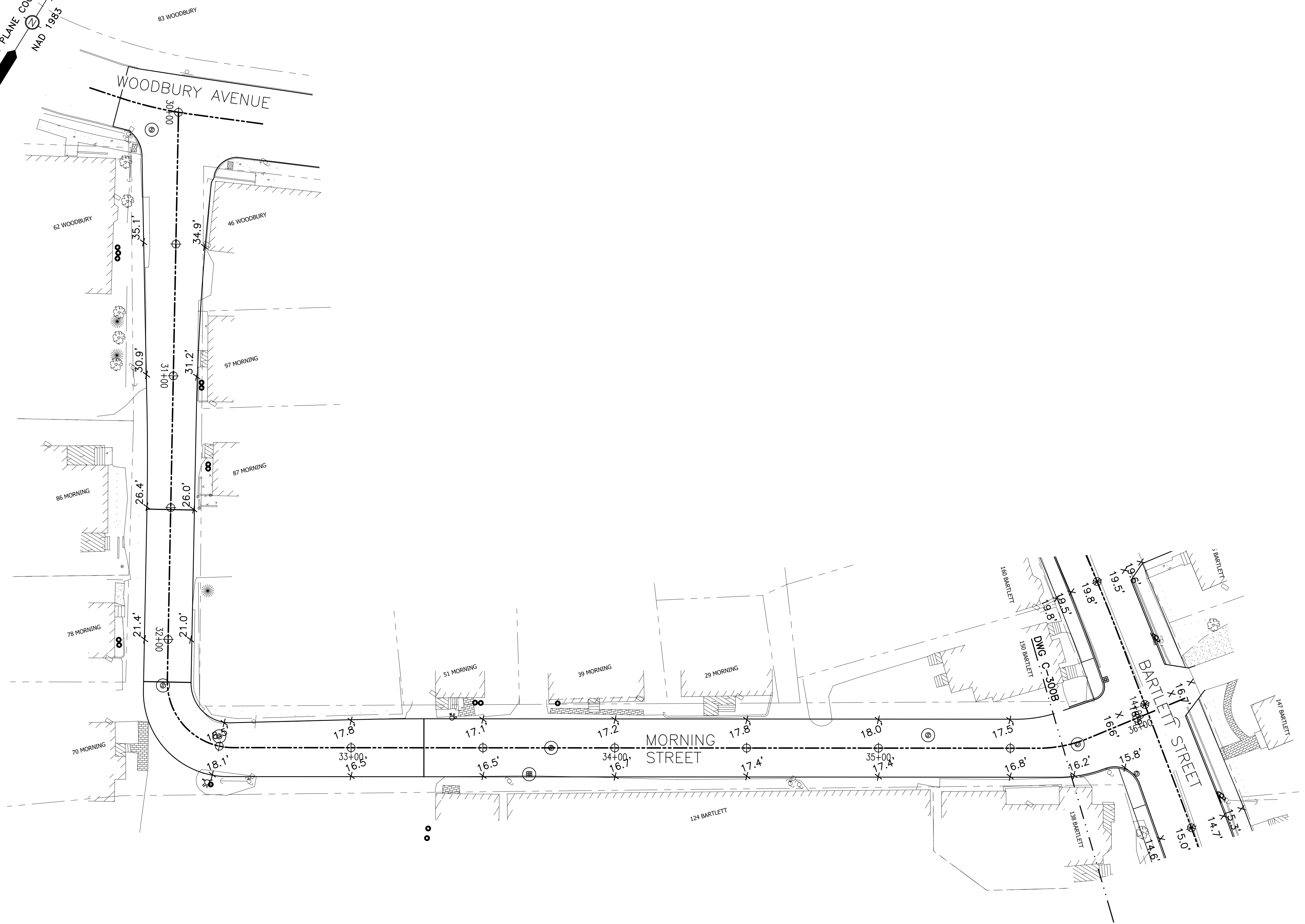
DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1530



DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

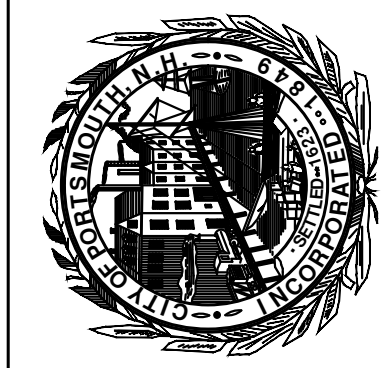
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 SHEET: ROADWAY GRADING PLAN
 C-300C

NH STATE PLANE COORDINATE SYSTEM
MAD 1983



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

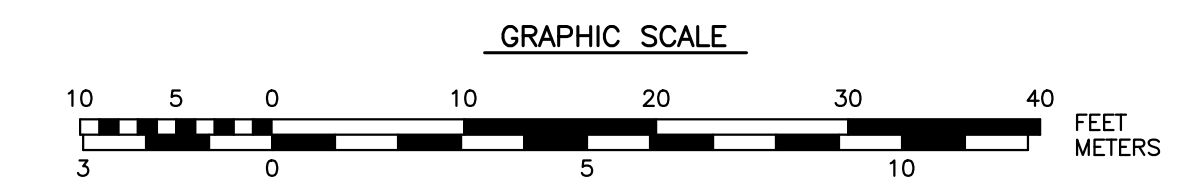
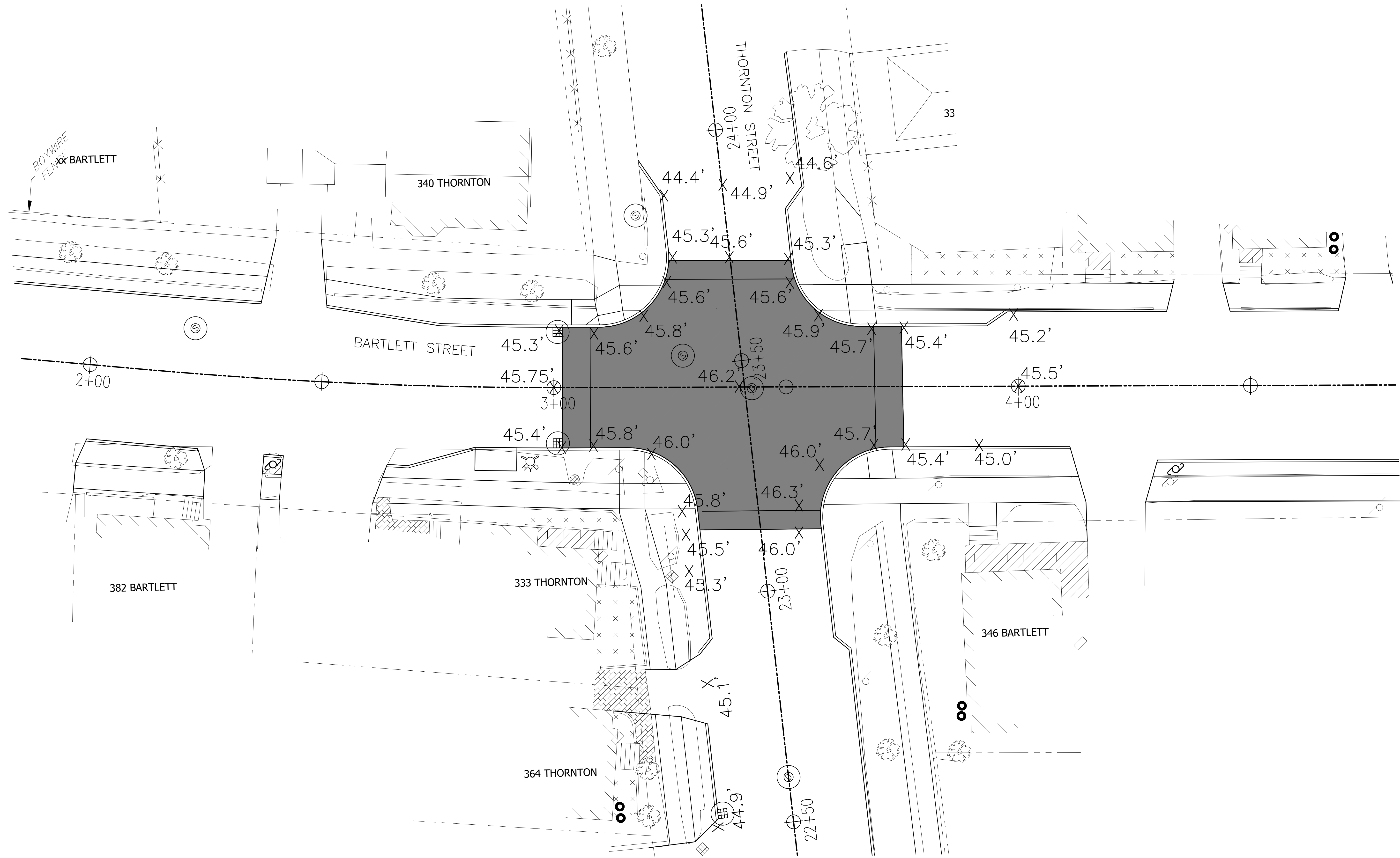
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

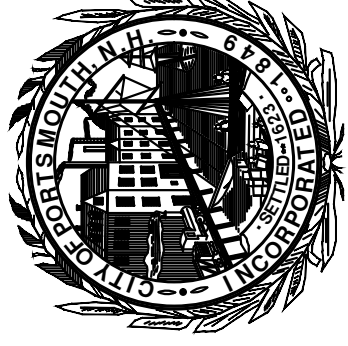
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: ROADWAY GRADING PLAN

SHEET: C-300D



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

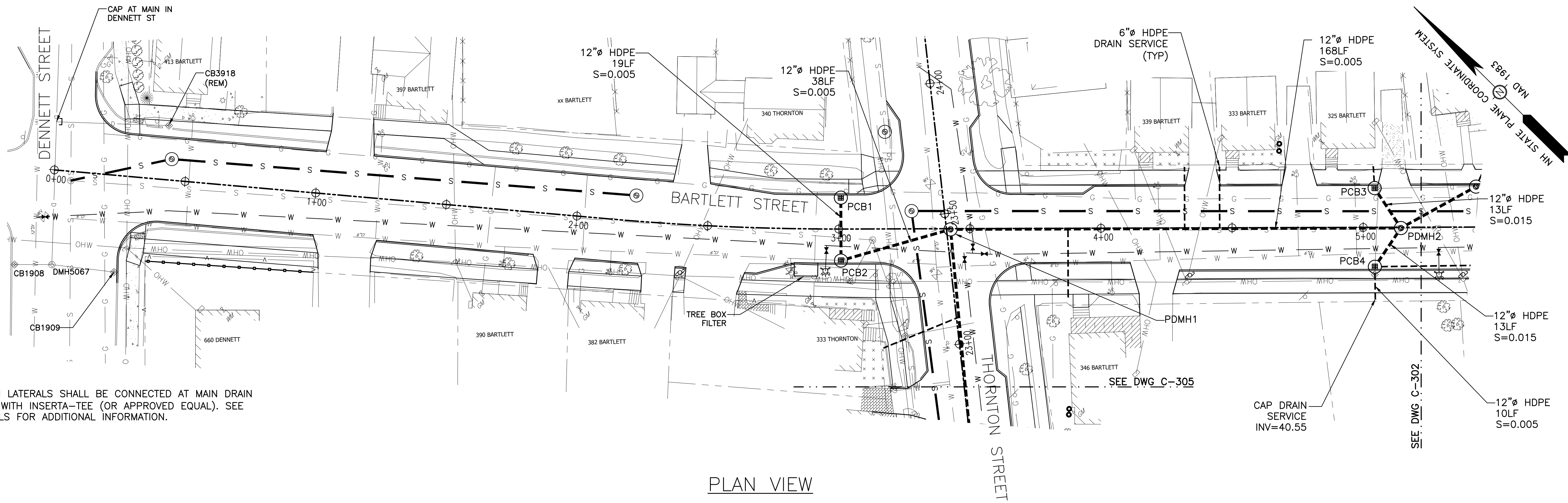


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA
RECONSTRUCTION

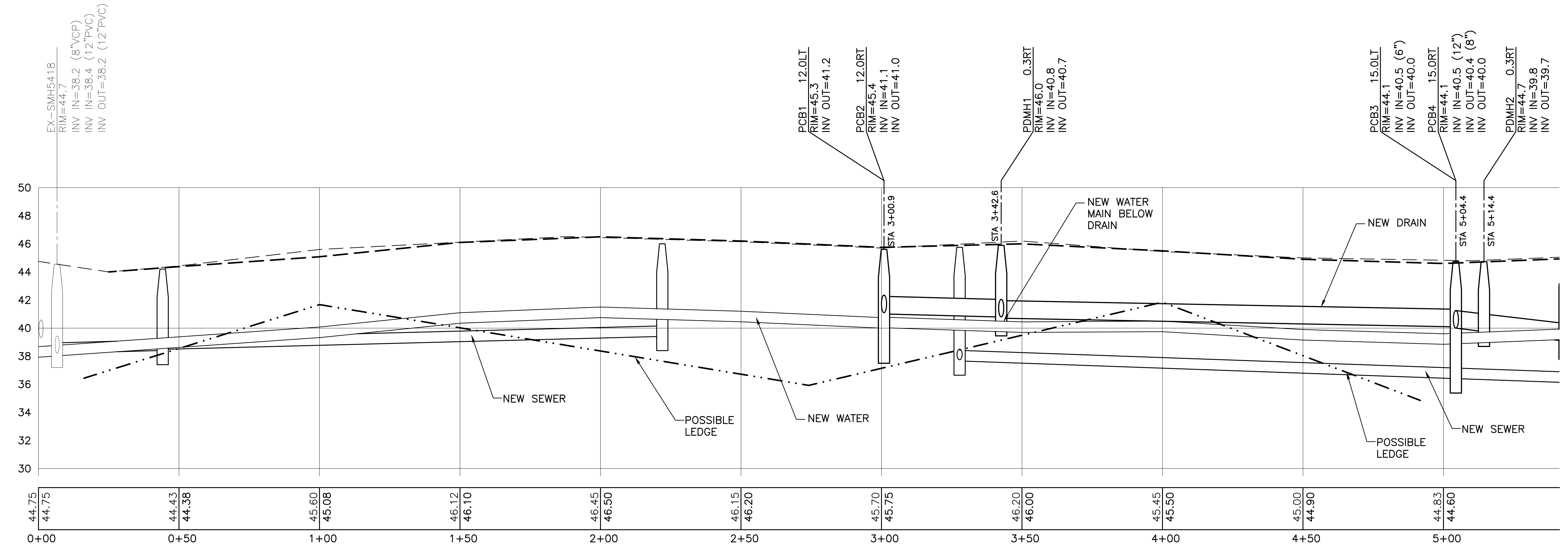
TITLE: ADD/ALT 2 - RAISED INTERSECTION
GRADING PLAN

SHEET: C-300E

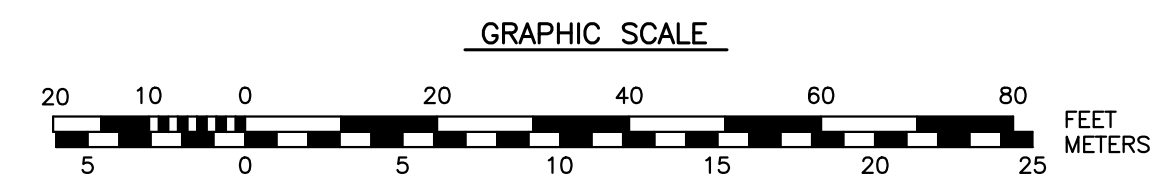


NOTES:
 1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.

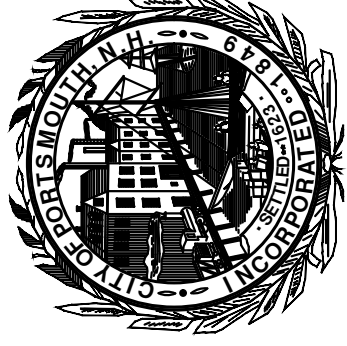
PLAN VIEW

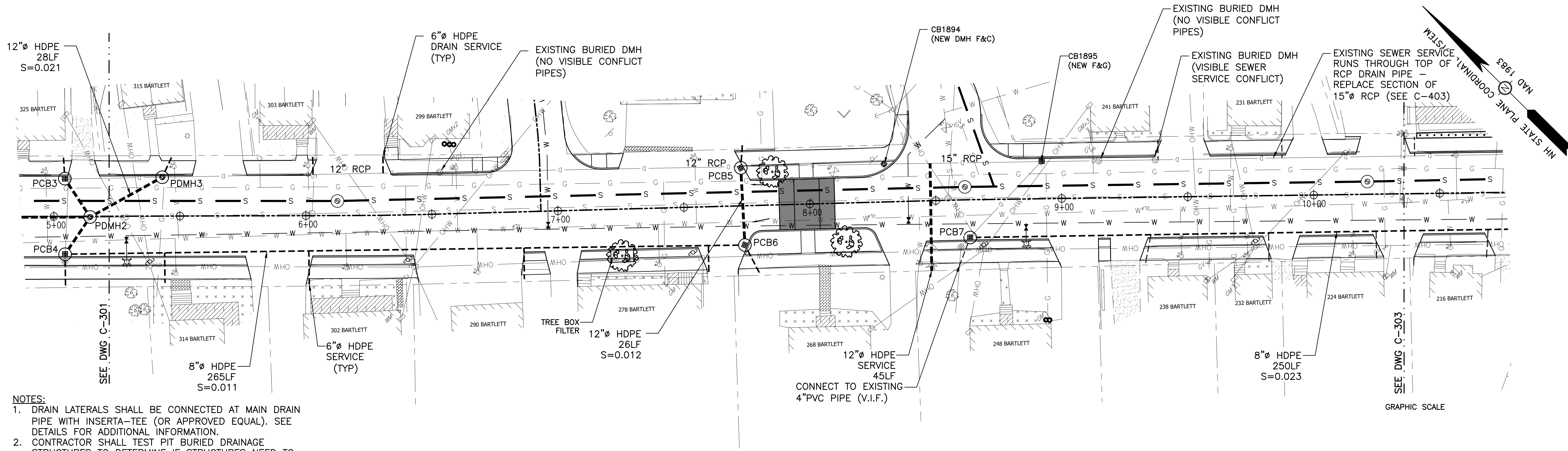


PROFILE



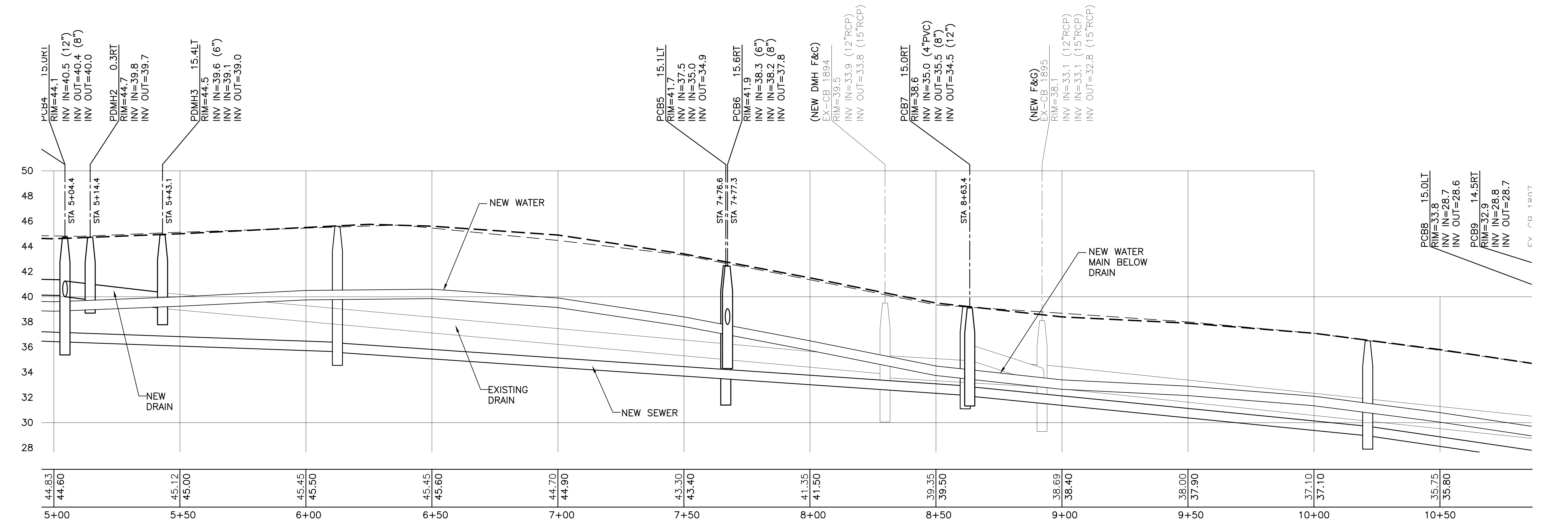
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630		PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: GRADING & DRAINAGE PLAN
DATE: JANUARY 2023 SCALE: AS SHOWN PROJ. NO.: 7238 APVD BY: MRB	ISSUED FOR CONSTRUCTION: MRB 3/21/24 ISSUED FOR BID: MRB 12/9/23	NO. 2 REVISIONS: 0 APPD DATE:
PROJECT: BARTLETT STREET AREA RECONSTRUCTION TITLE: GRADING & DRAINAGE PLAN		SHEET: C-301





- NOTES:**
1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERT-A-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.
 2. CONTRACTOR SHALL TEST PIT BURIED DRAINAGE STRUCTURES TO DETERMINE IF STRUCTURES NEED TO BE RAISED, OR IF THEY CAN BE REMOVED AND RCP SECTION REPLACED. STRUCTURES ARE POSSIBLY "CONFLICT STRUCTURES" WITH SEWER SERVICES PASSING THROUGH.

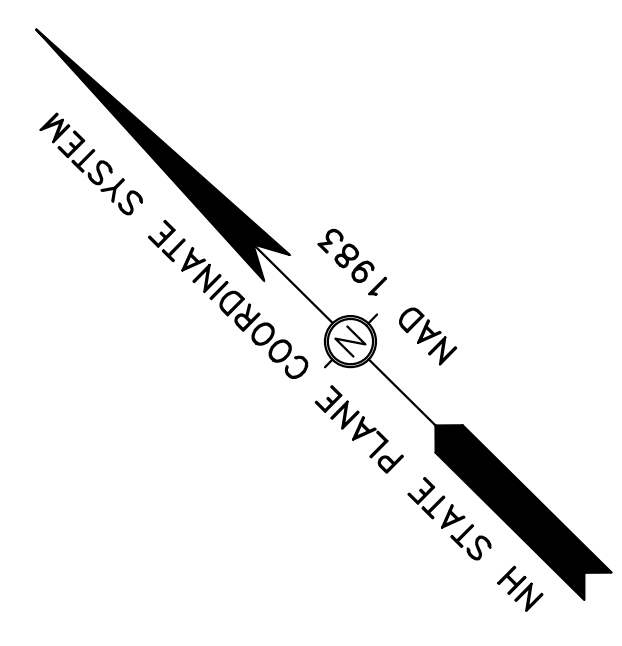
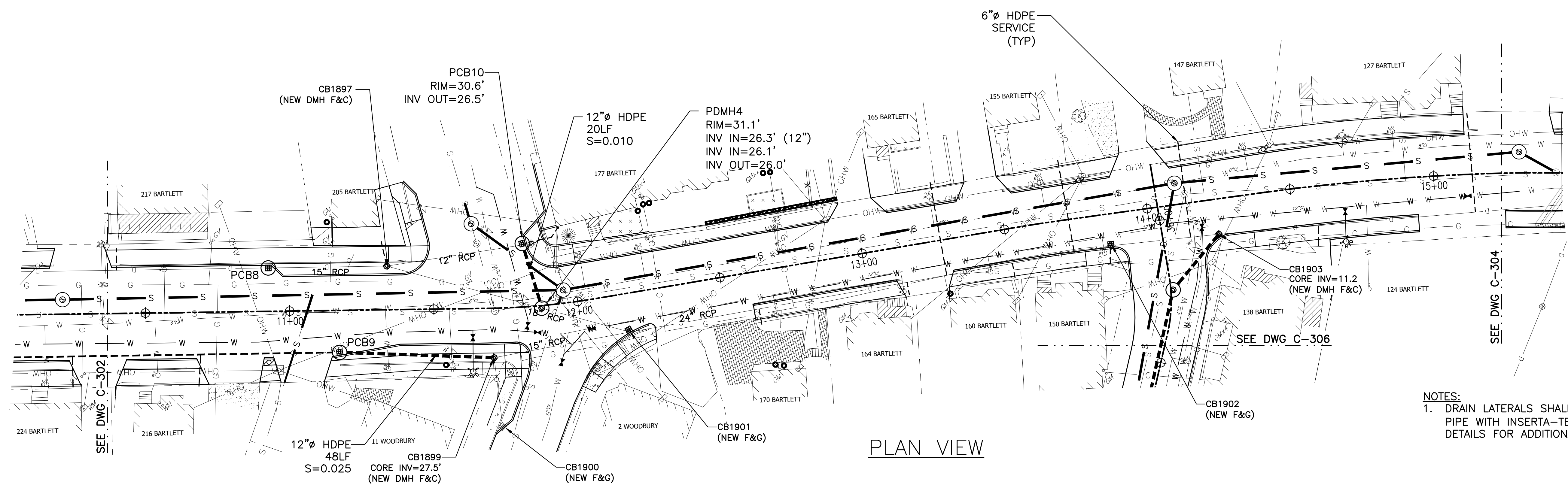
PLAN VIEW



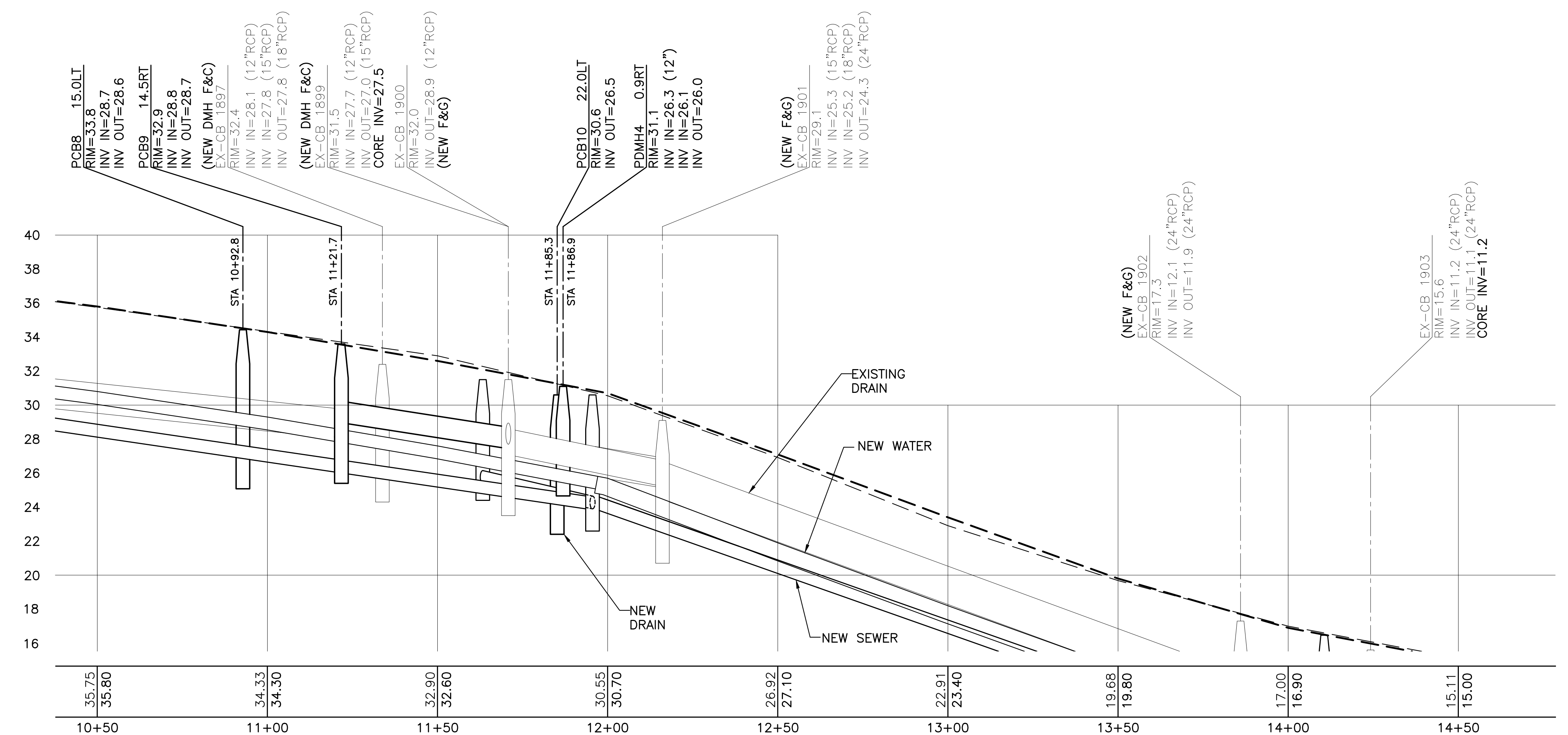
PROFILE

PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
TITLE:	GRADING & DRAINAGE PLAN		
DATE:	JANUARY 2023	SCALE:	AS SHOWN
PROJ. NO.:	7238	APVD BY:	MRB
ISSUED FOR CONSTRUCTION	MRB	3/21/24	
ISSUED FOR BID	MRB	12/9/23	
NO.	0	REVISIONS	APPD DATE

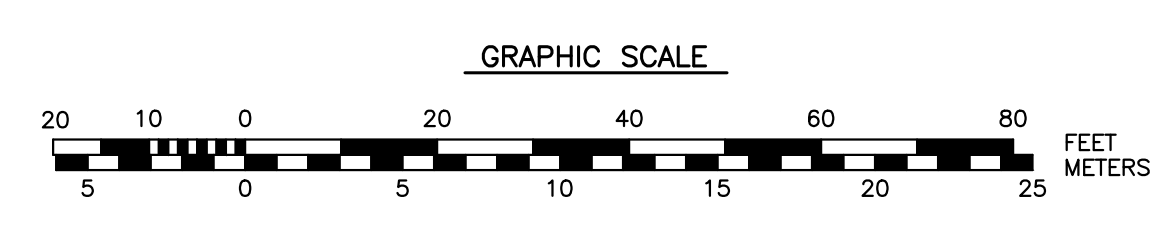
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530



NOTES:
 1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.

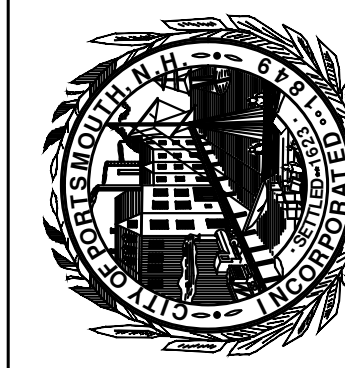


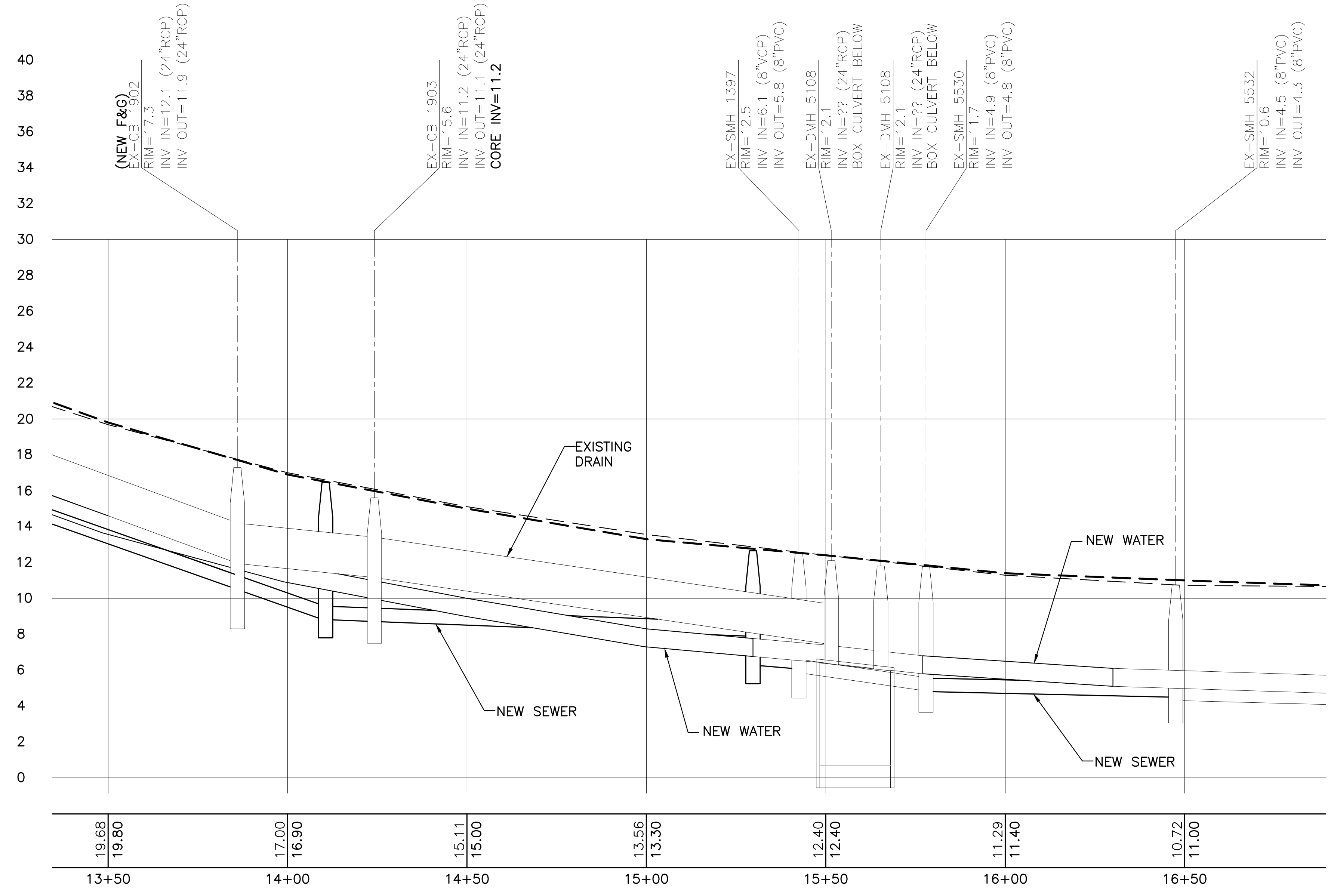
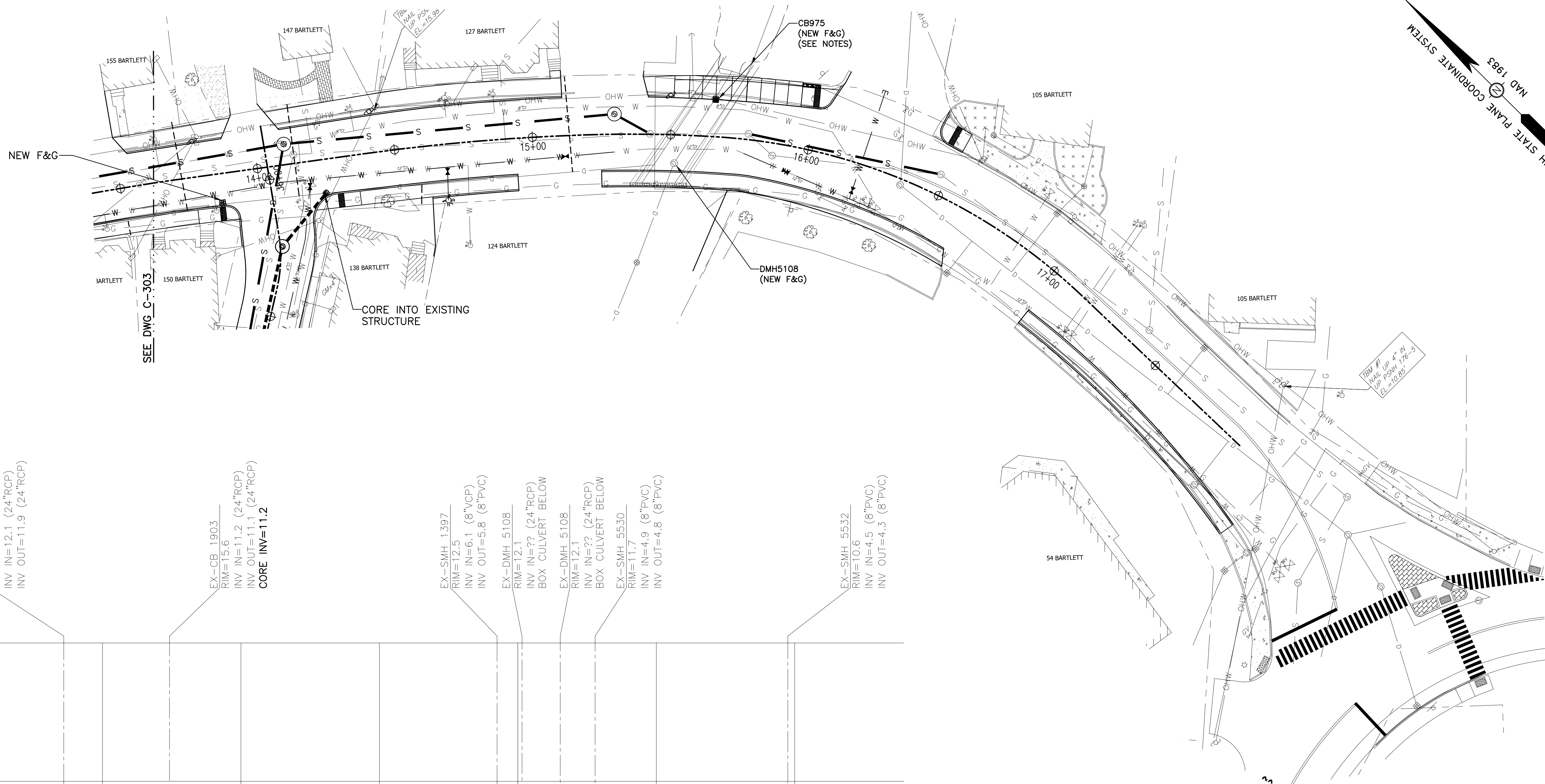
PROFILE



PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
TITLE:	GRADING & DRAINAGE PLAN		
DATE:	JANUARY 2023	SCALE:	AS SHOWN
PROJ. NO.:	7238	APVD BY:	MRB
NO.	0	ISSUED FOR BID	MRB 12/9/23
NO.	2	ISSUED FOR CONSTRUCTION	MRB 3/21/24
REVISIONS	APPD	DATE	

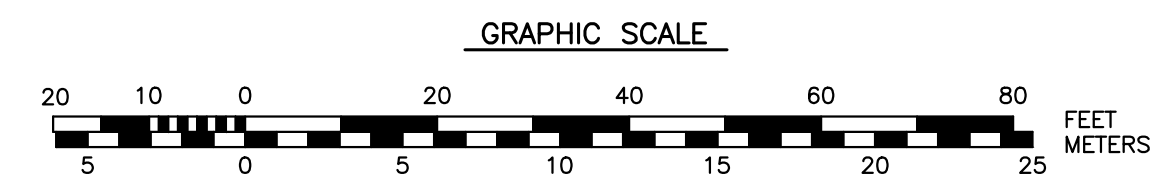
DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1630





PLAN VIEW

NOTES:
 1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.



PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: GRADING & DRAINAGE PLAN
 SHEET: C-304

DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

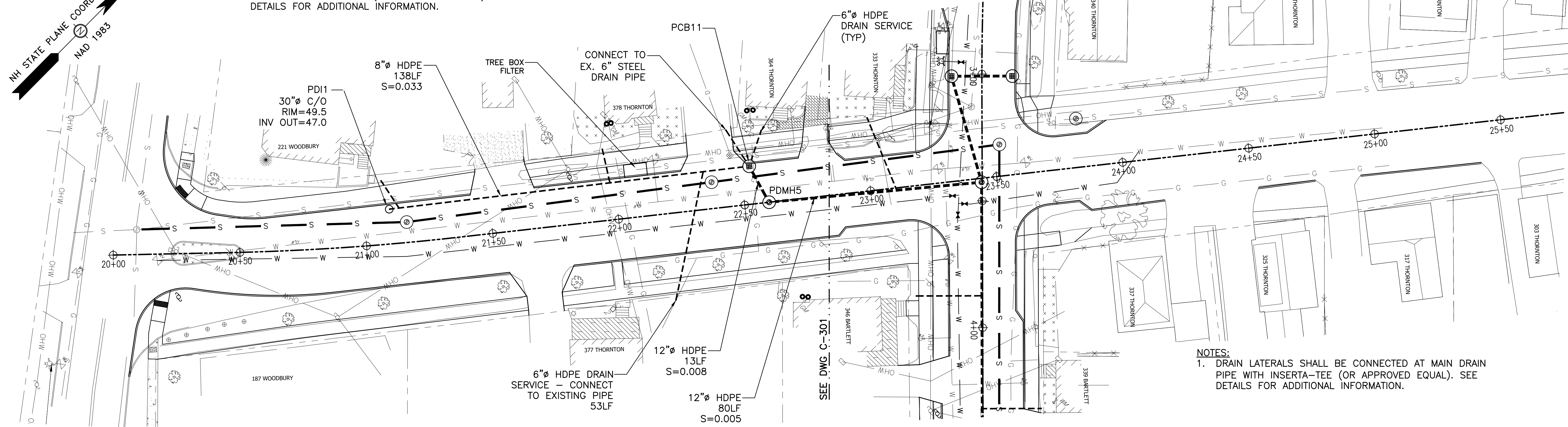
DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1630

NH STATE PLANE COORDINATE SYSTEM
 MAD 1983

NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

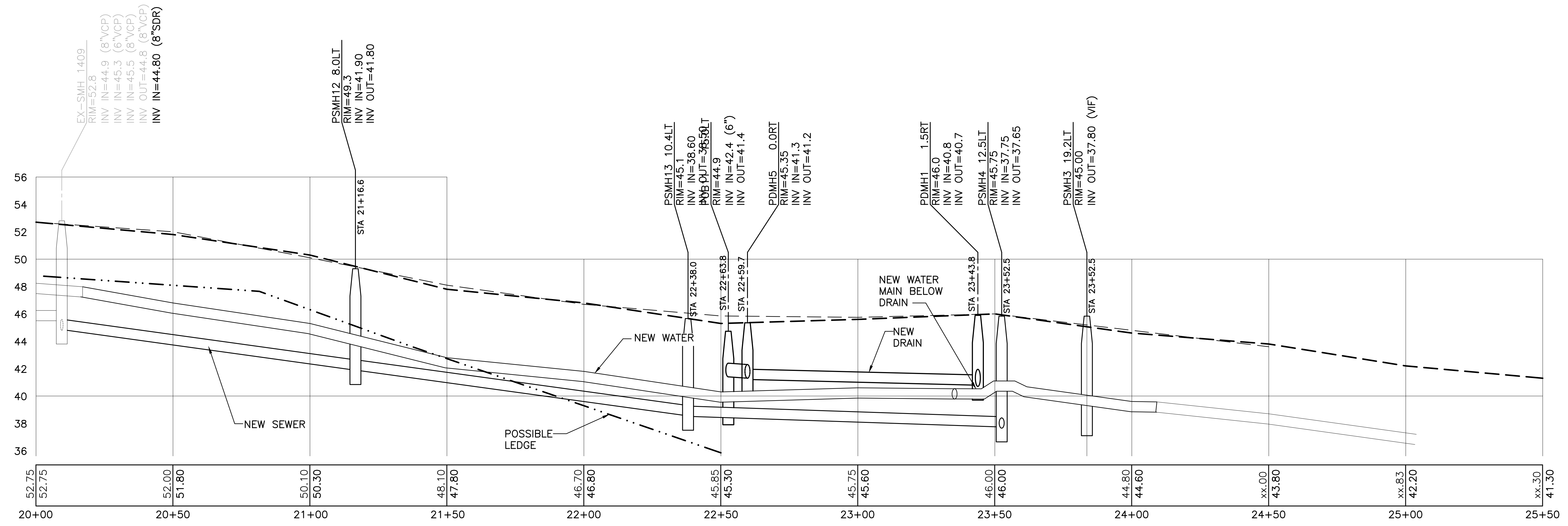
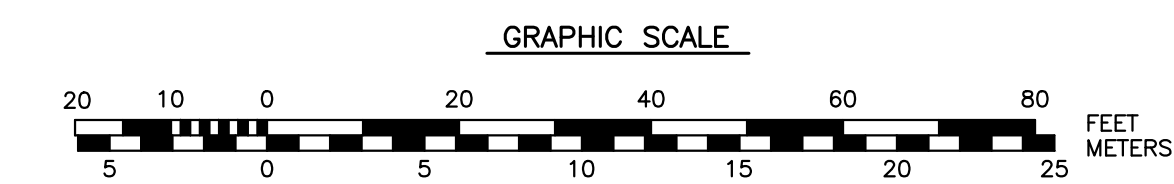
NH STATE PLANE COORDINATE SYSTEM
NAD 1983

NOTES:
1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.



NOTES:
1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.

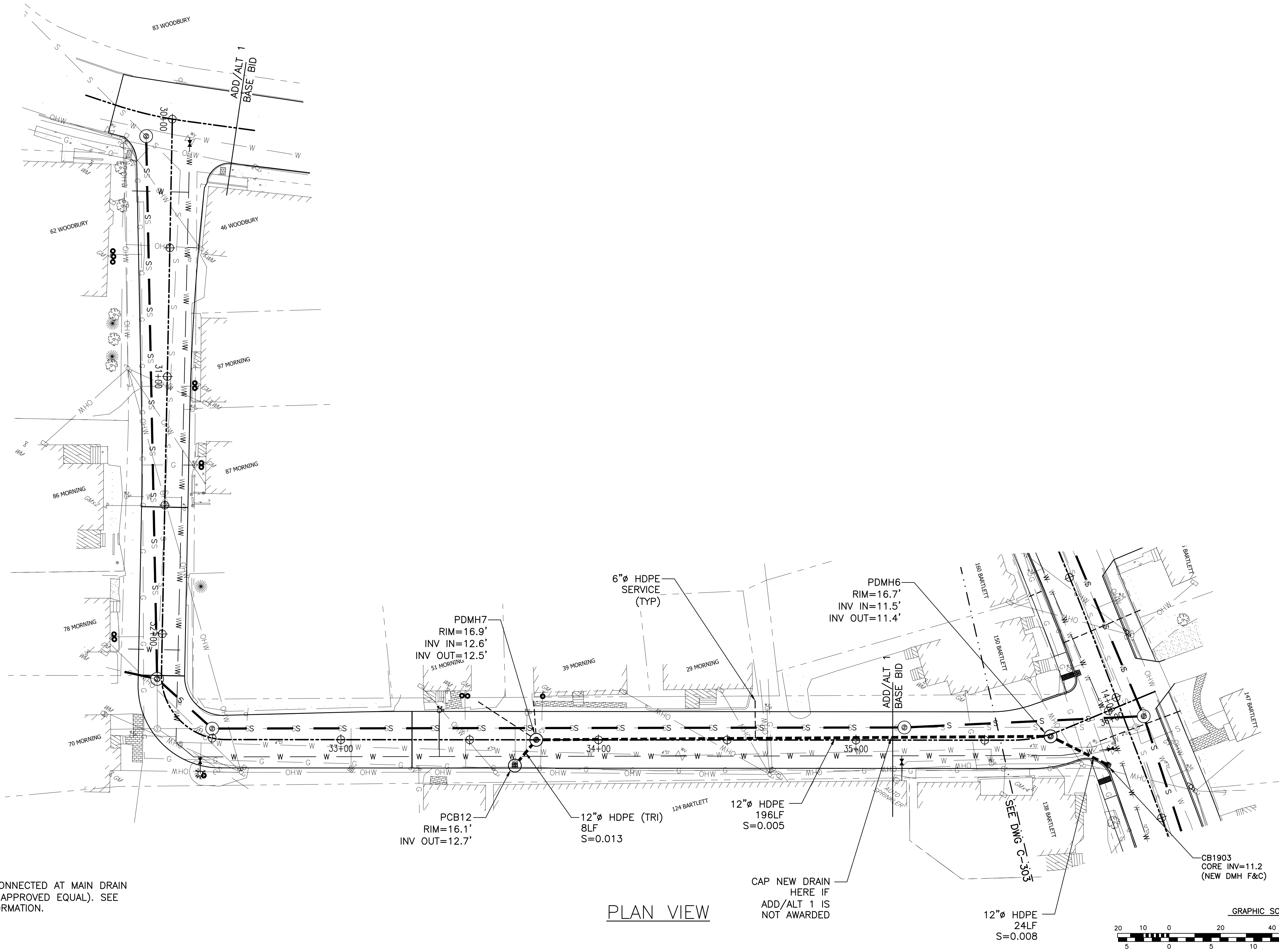
PLAN VIEW



PROFILE

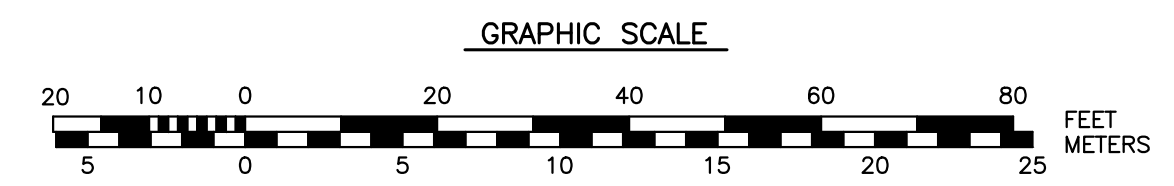
PROJECT:	BARTLETT STREET AREA RECONSTRUCTION		
TITLE:	GRADING & DRAINAGE PLAN		
DATE:	JANUARY 2023	SCALE:	AS SHOWN
PROJ. NO.:	7238	APVD BY:	MRB
NO.	0	REVISIONS	
ISSUED FOR CONSTRUCTION	MRB	3/21/24	
ISSUED FOR BID	MRB	12/9/23	
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630			

NH STATE PLANE COORDINATE SYSTEM
MAD 1983

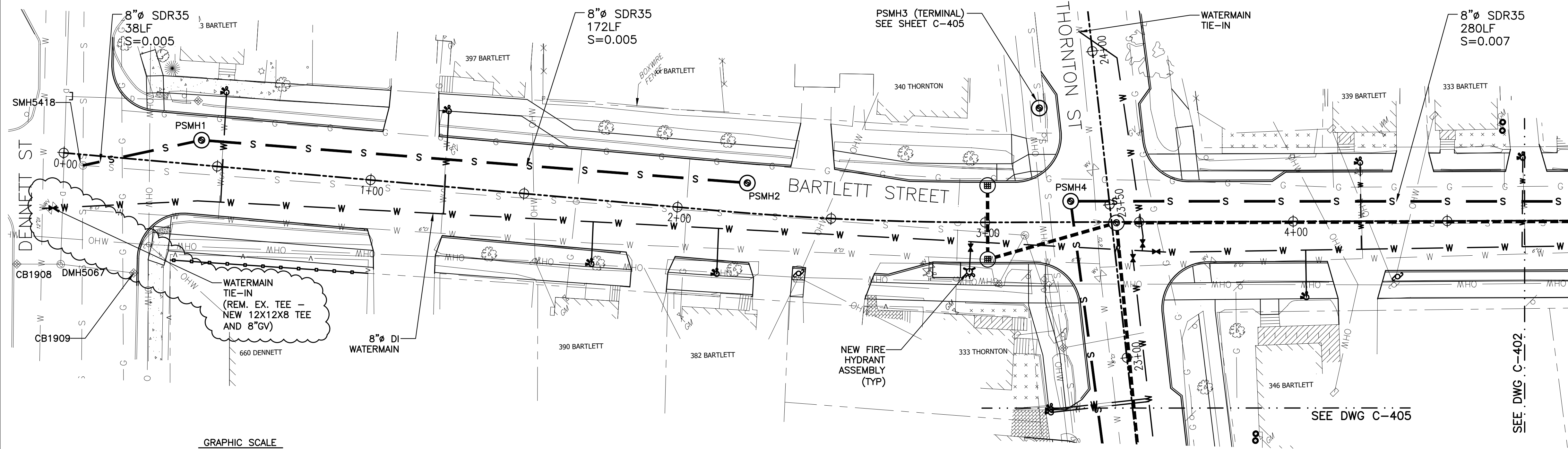


NOTES:
1. DRAIN LATERALS SHALL BE CONNECTED AT MAIN DRAIN PIPE WITH INSERTA-TEE (OR APPROVED EQUAL). SEE DETAILS FOR ADDITIONAL INFORMATION.

PLAN VIEW



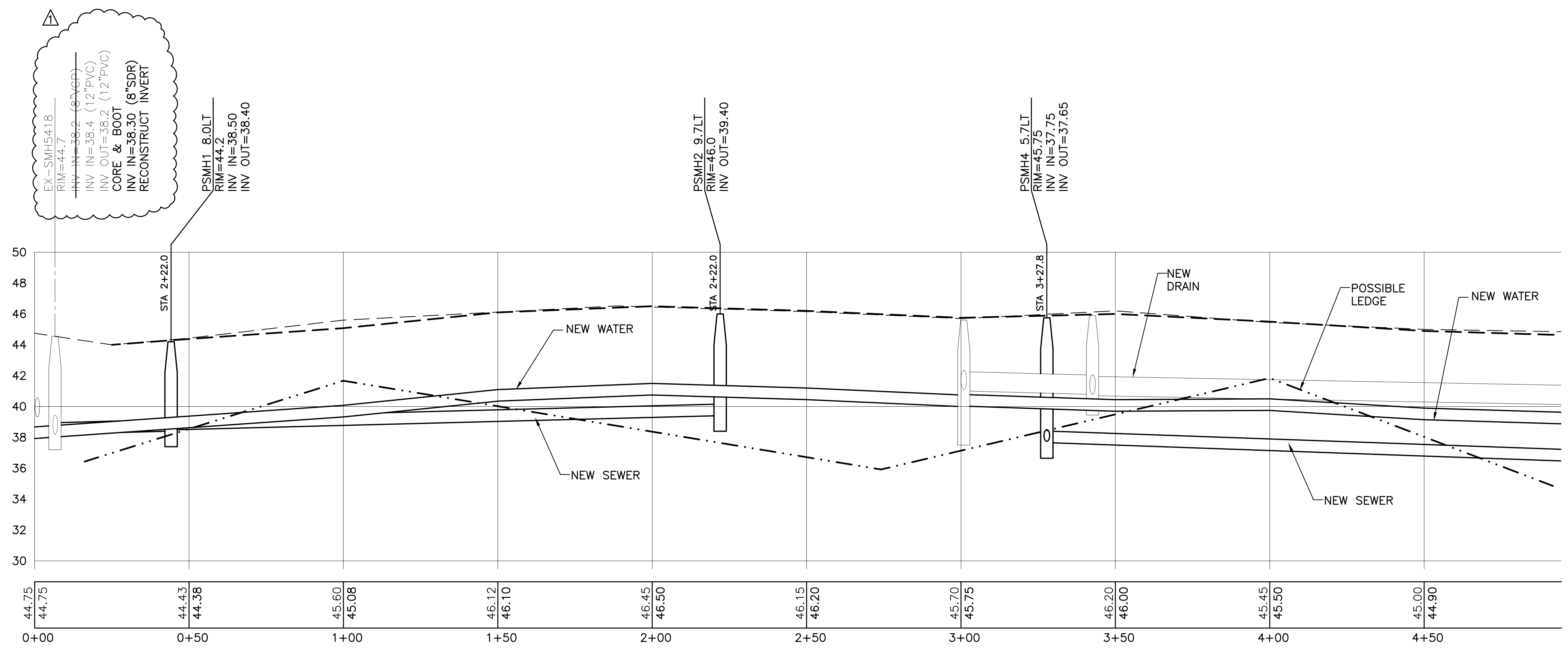
PROJECT: BARTLETT STREET AREA RECONSTRUCTION		DATE: JANUARY 2023	
TITLE: GRADING & DRAINAGE PLAN		SCALE: AS SHOWN	
SHEET: C-306		PROJ. NO.: 7238	
DEPARTMENT OF PUBLIC WORKS CITY OF PORTSMOUTH, NH 680 FEVERLY HILL ROAD 603-427-1630		APVD BY: MRB	
NO.		REVISIONS	
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23
		APPD	DATE



PLAN VIEW

- NOTES:
- CONTRACTOR SHALL VERIFY SEWER SERVICES TO 333 AND 340 THORNTON ST. PRIOR TO FABRICATING PSMH2.
 - SEWER SERVICES ARE NOT SHOWN FOR CLARITY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO THE NEW MAIN.
 - CONTRACTOR SHALL VERIFY LOCATION AND MATERIAL OF WATER AND SEWER SERVICES FOR EACH PARCEL.
 - CONTRACTOR SHALL TEST PIT AT PSMH3 TO VERIFY PIPE ELEVATION AND ALIGNMENT PRIOR TO ORDERING ANY SEWER STRUCTURES.
 - WATER-SEWER CROSSINGS SHALL HAVE 18" (MIN) VERTICAL CLEARANCES AND SHALL CROSS AS CLOSE AS TO 90-DEG ANGLE POSSIBLE. SEWER PIPE SHALL BE SPACED SO THAT CROSSING IS AT MID-POINT OF THE SEWER PIPE LENGTH.
 - RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.

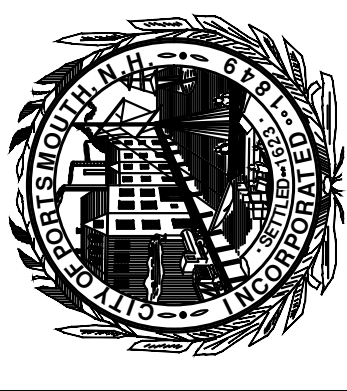
- NOTES:
- LEDGE LINE SHOWN IS BASED ON GEOTECHNICAL EXPLORATION. SEE GEOTECHNICAL REPORT FROM JTC.
 - LOCATIONS WHERE SEWER HAS LESS THAN 6 FEET OF COVER (STA 0+00 TO STA 1+50) SHALL HAVE 2" RIGID FOAM INSULATION PLACED ON SAND BACKFILL.
 - REFER TO SEWER MANHOLE DETAIL FOR REQUIREMENTS FOR CORE & BOOT AND RECONSTRUCT INVERTS.



PROFILE

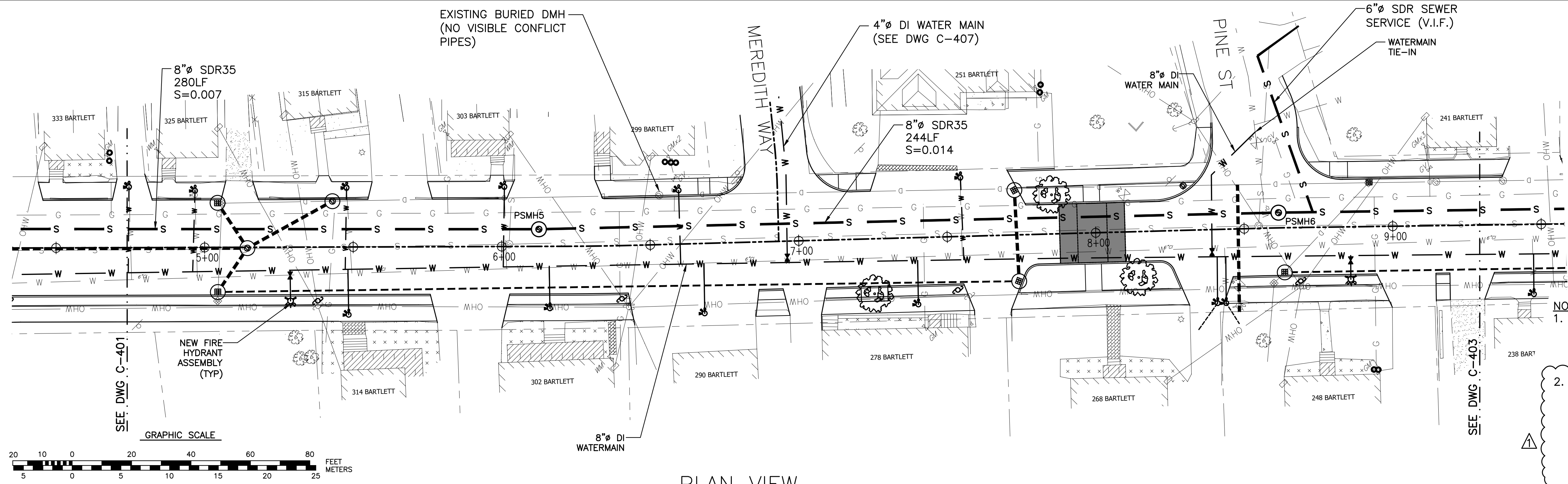
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1630

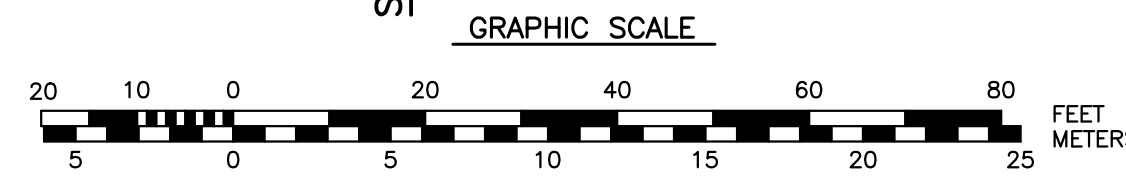


DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

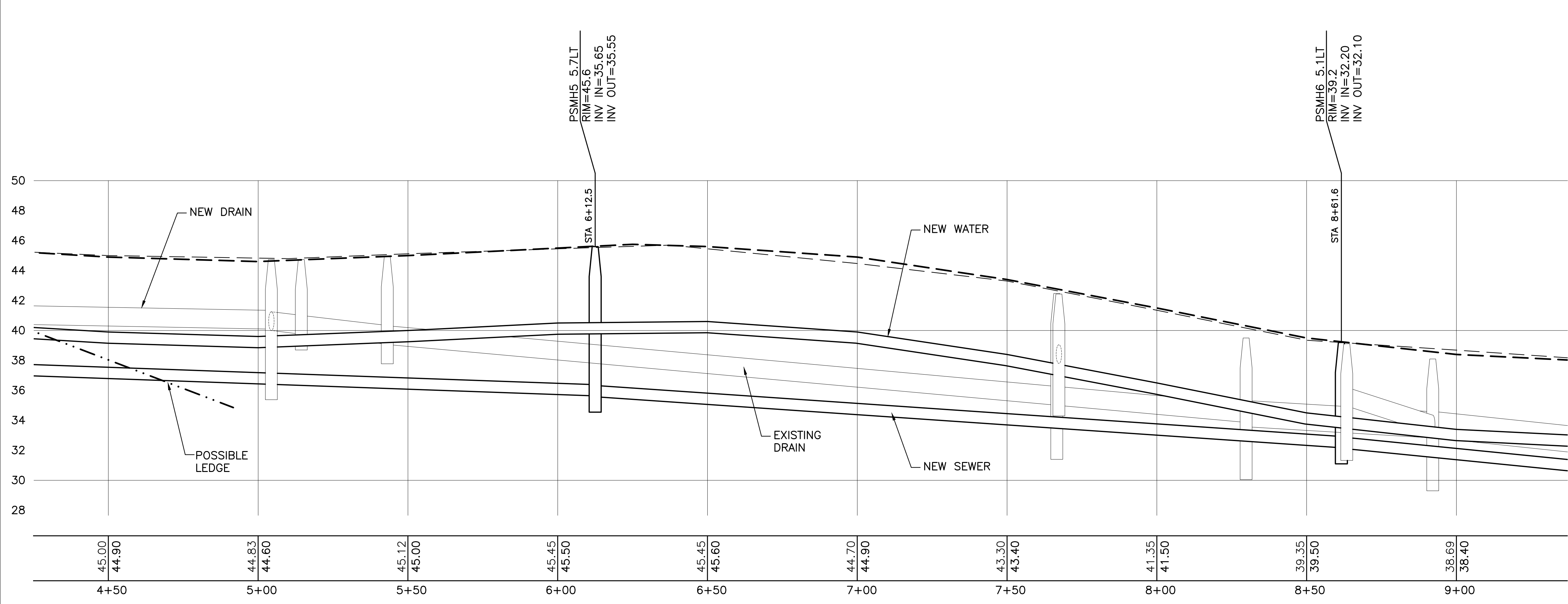
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: UTILITY & PROFILE PLAN
 SHEET: C-401



NOTES:
 1. SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN.
 2. RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.



PLAN VIEW

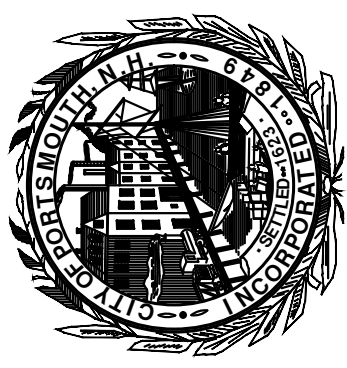


NOTES:
 1. LEDGE LINE SHOWN IS BASED ON GEOTECHNICAL EXPLORATION. SEE GEOTECHNICAL REPORT FROM JTC.

PROFILE

NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	3/21/24
1	REV. PER NHDES & ADDENDUM	2/2/24
0	ISSUED FOR BID	12/9/23

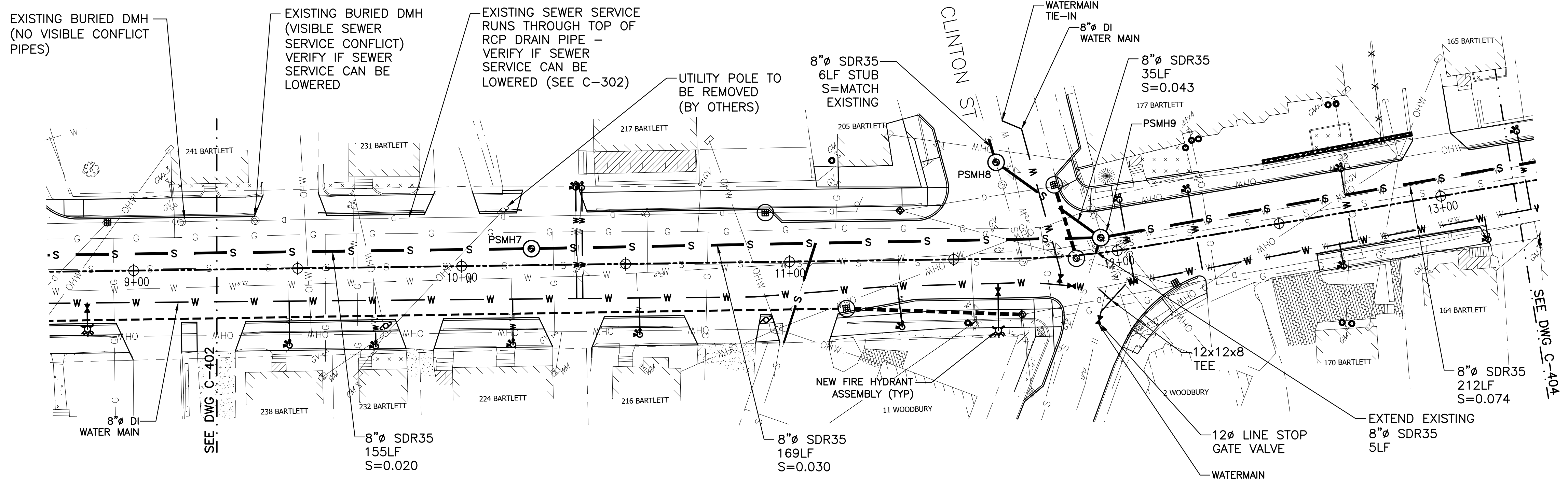
DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 FEVERLY HILL ROAD
 603-427-1630



DATE: JANUARY 2023
 SCALE: AS SHOWN
 PROJ. NO.: 7238
 APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
 TITLE: UTILITY & PROFILE PLAN

SHEET: C-402



PLAN VIEW

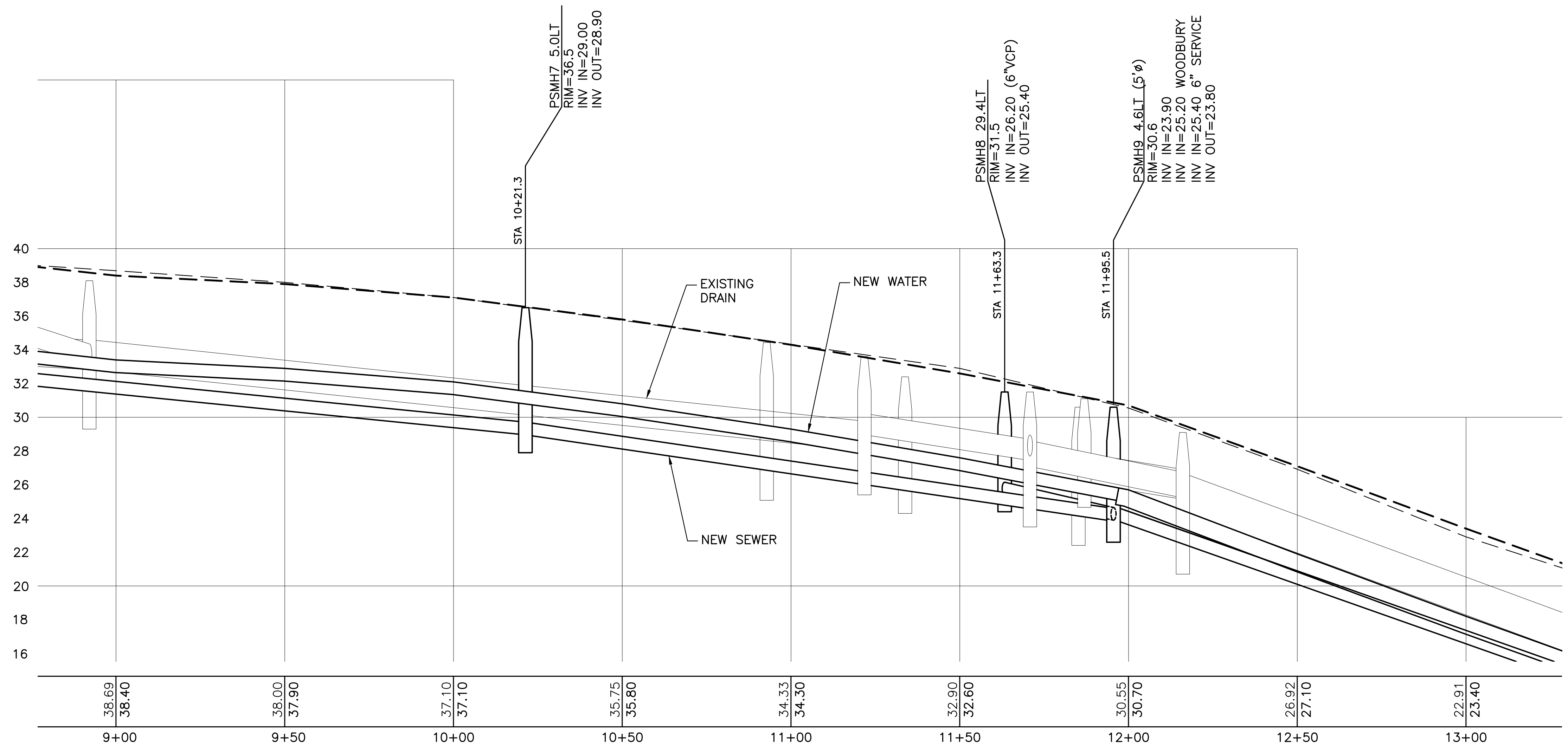
NOTES:

- SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN.
- RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.

GRAPHIC SCALE

20 10 0 20 40 60 80 FEET METERS

5 0 5 10 15 20 25



PROFILE

NOTES:

- LOCATIONS WHERE SEWER HAS LESS THAN 6 FEET OF COVER (STA 12+00 TO STA 16+50) SHALL HAVE 2" RIGID FOAM INSULATION PLACED ON SAND BACKFILL.

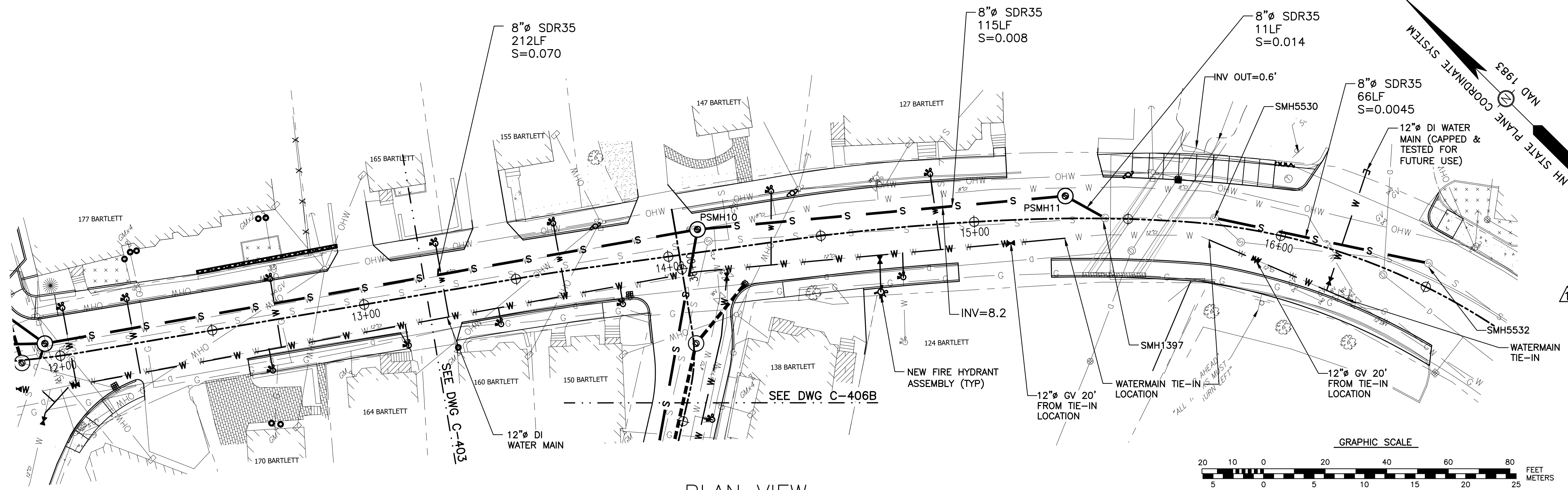
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



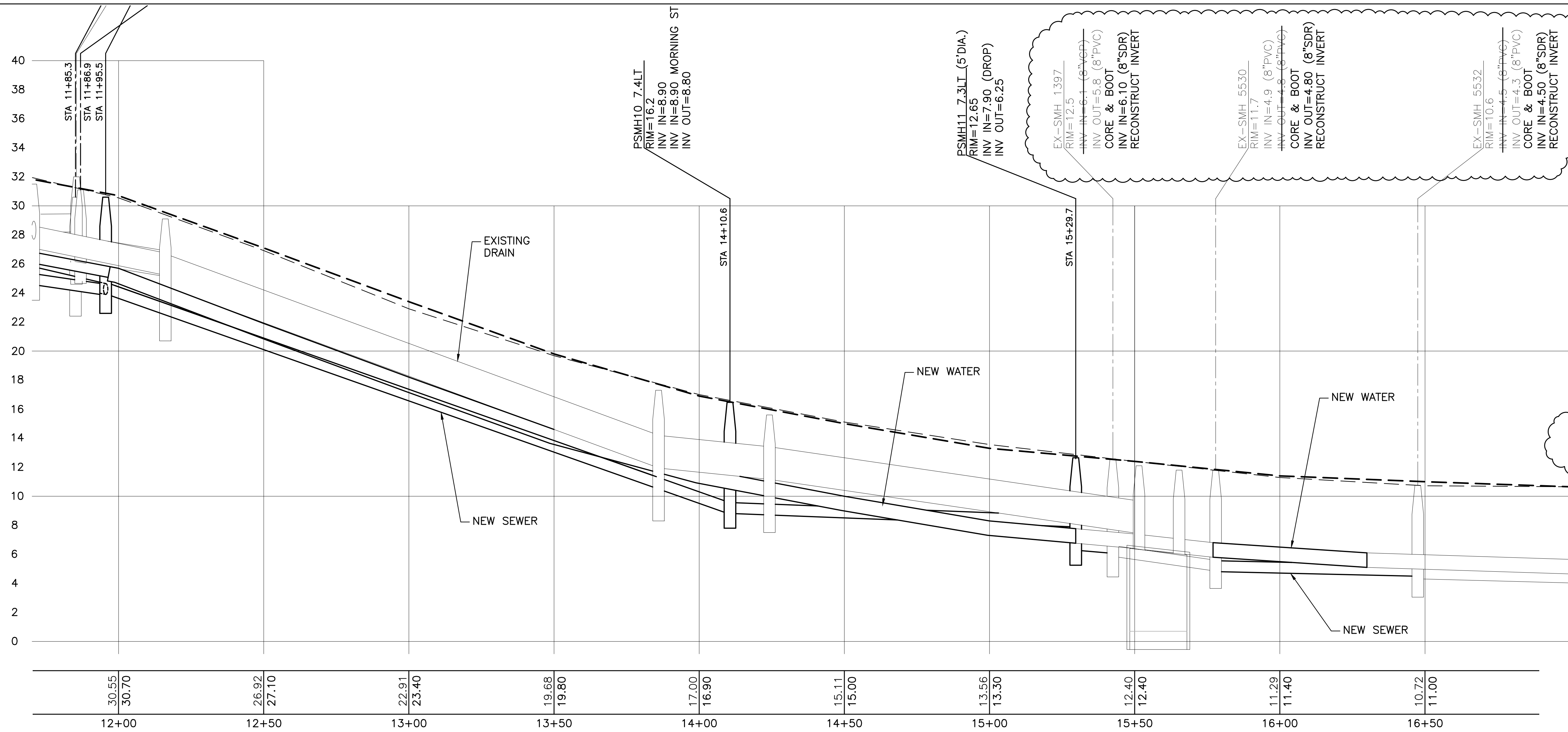
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN
SHEET: C-403



PLAN VIEW

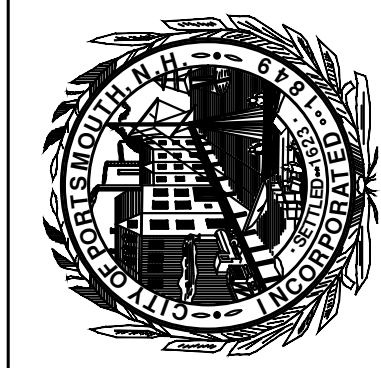
- NOTES:
- SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN.
 - RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.



- NOTES:
- LOCATIONS WHERE SEWER HAS LESS THAN 6 FEET OF COVER (STA 12+00 TO STA 16+50) SHALL HAVE 2" RIGID FOAM INSULATION PLACED ON SAND BACKFILL.
 - REFER TO SEWER MANHOLE DETAIL FOR REQUIREMENTS FOR CORE & BOOT AND RECONSTRUCT INVERTS.

NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	3/21/24
1	REV. PER NHDES & ADDENDUM	2/2/24
0	ISSUED FOR BID	12/9/23

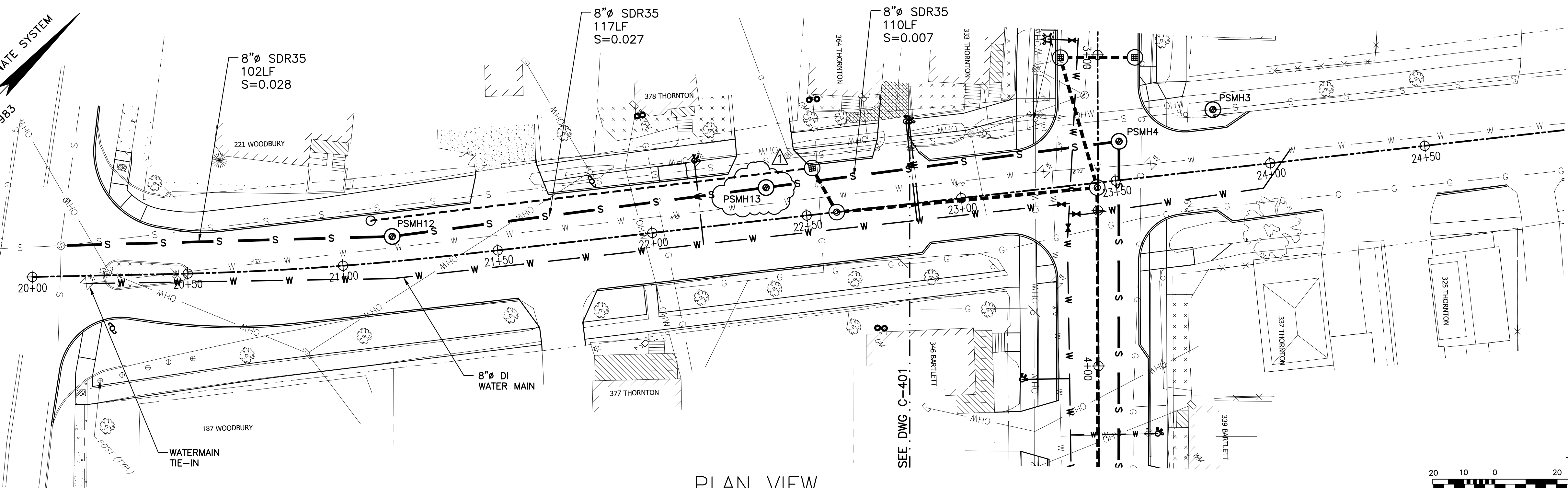
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

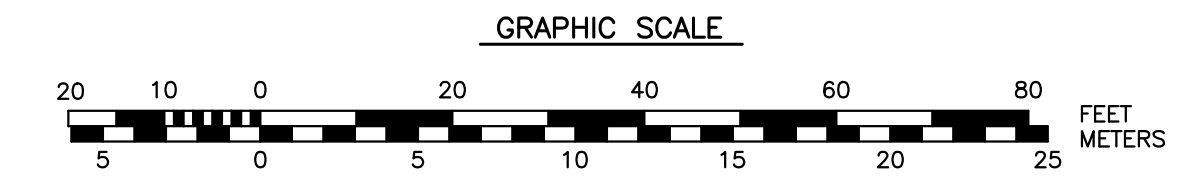
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN
SHEET: C-404

NH STATE PLANE COORDINATE SYSTEM
NAD 1983

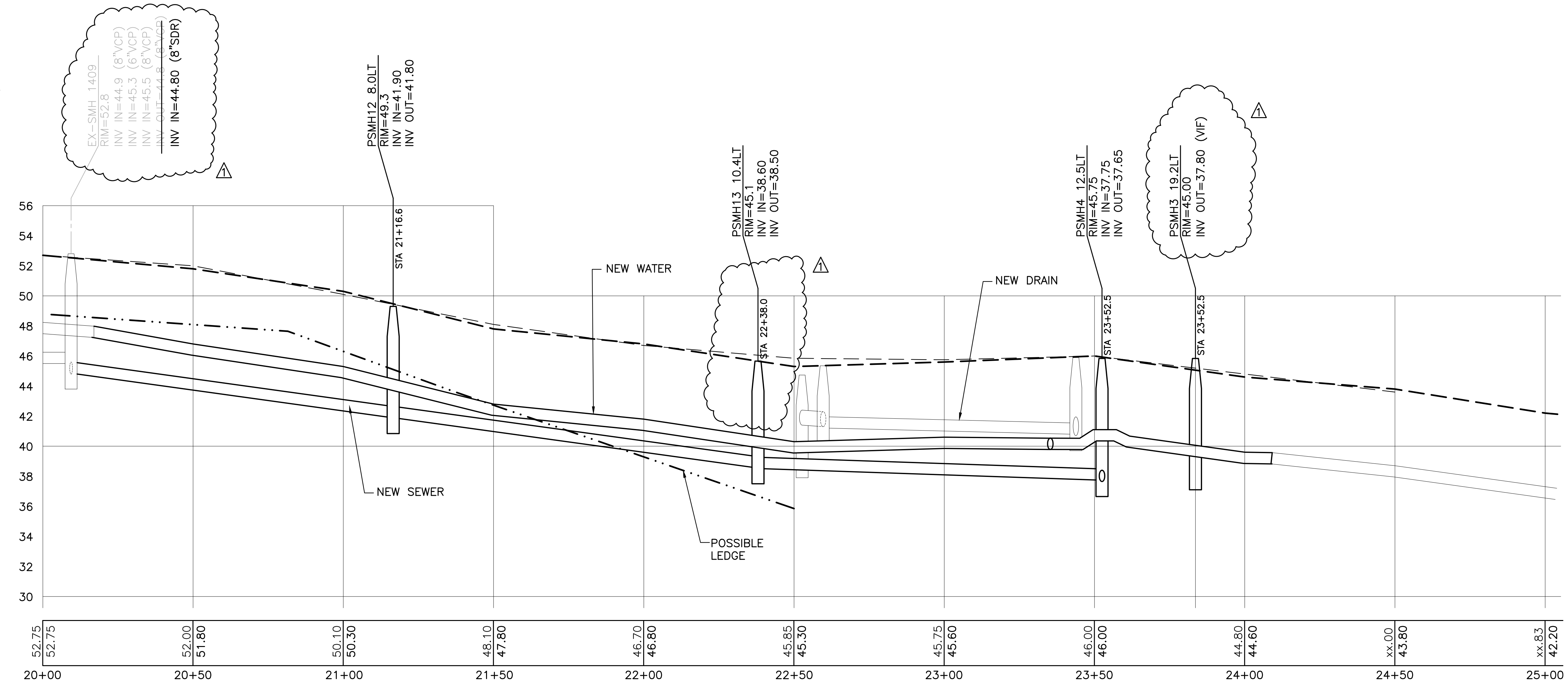


PLAN VIEW

- NOTES:
- CONTRACTOR SHALL VERIFY SEWER SERVICES TO 333 AND 340 THORNTON ST. PRIOR TO FABRICATING PSMH2.
 - SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN. CONTRACTOR SHALL TEST PIT AT PSMH3 TO VERIFY PIPE ELEVATION AND ALIGNMENT PRIOR TO ORDERING ANY SEWER STRUCTURES.
 - RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT



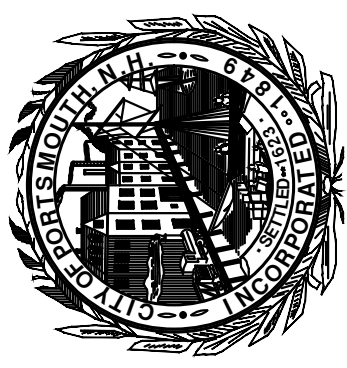
- NOTES:
- LEDGE LINE SHOWN IS BASED ON GEOTECHNICAL EXPLORATION. SEE GEOTECHNICAL REPORT FROM JTC.



PROFILE

NO.	REV.	DESCRIPTION	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530

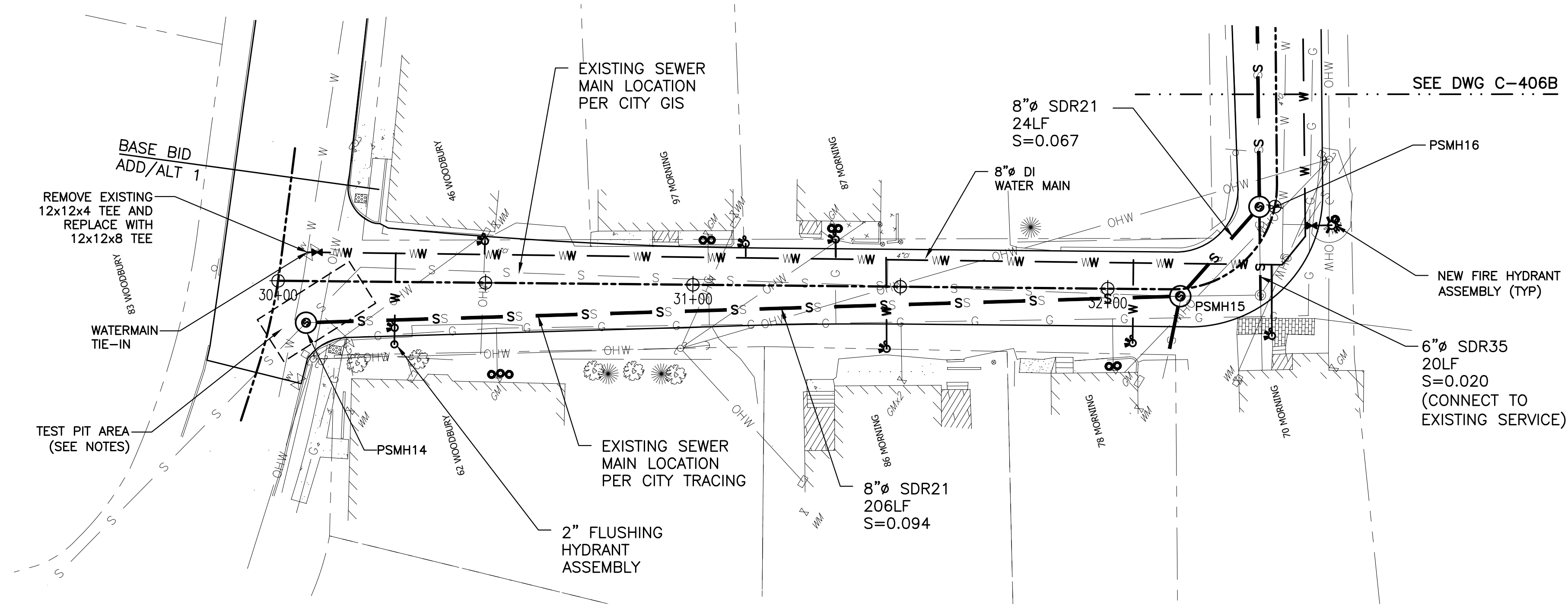
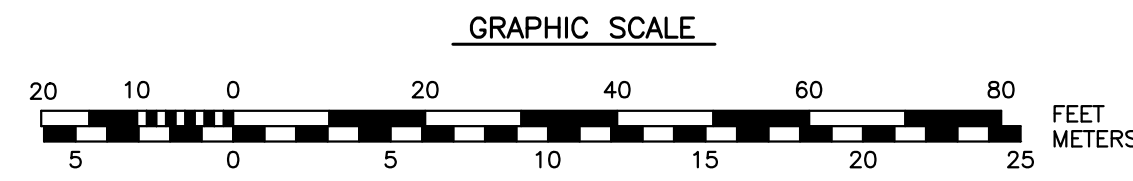


DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

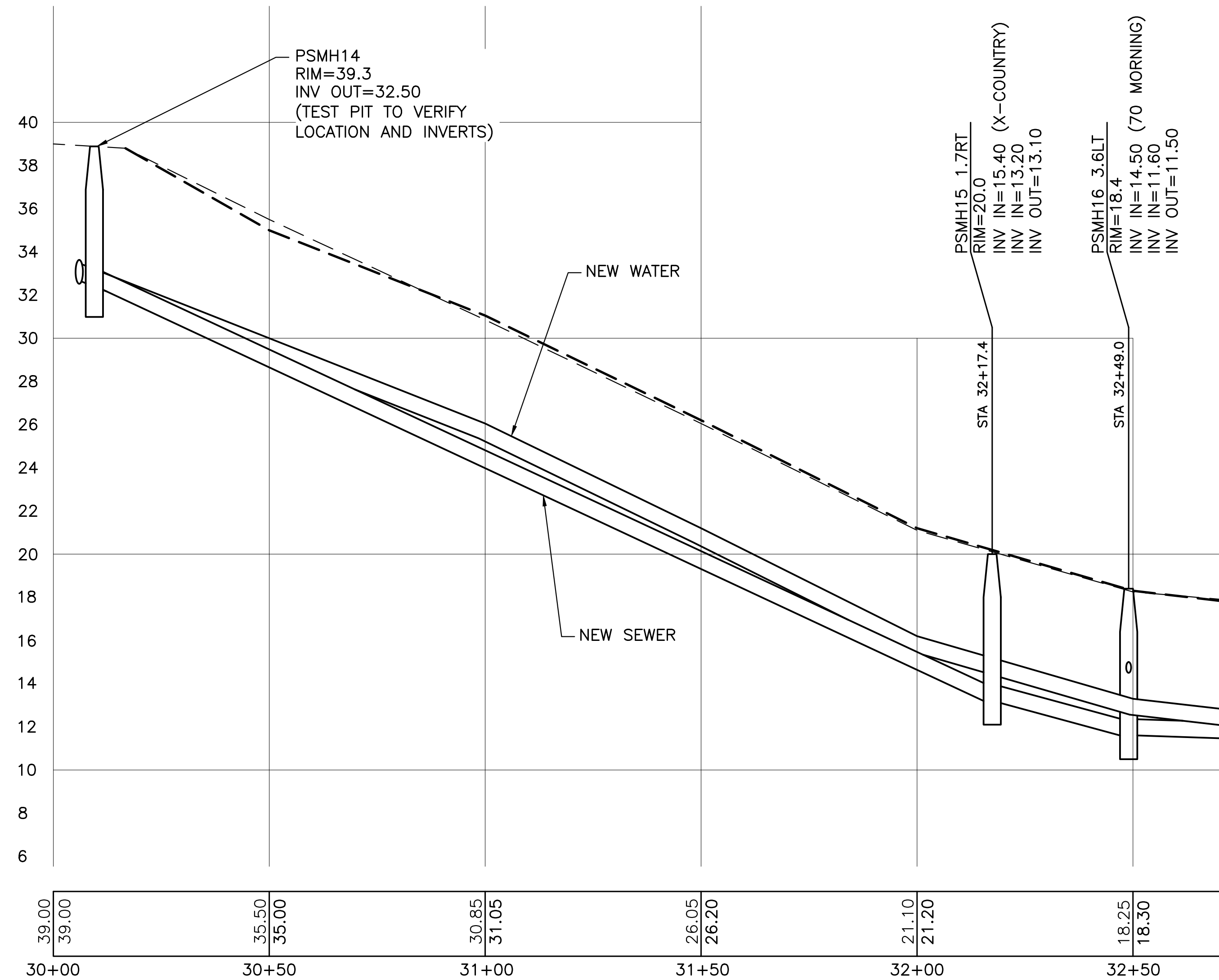
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN
SHEET: C-405

NOTES:

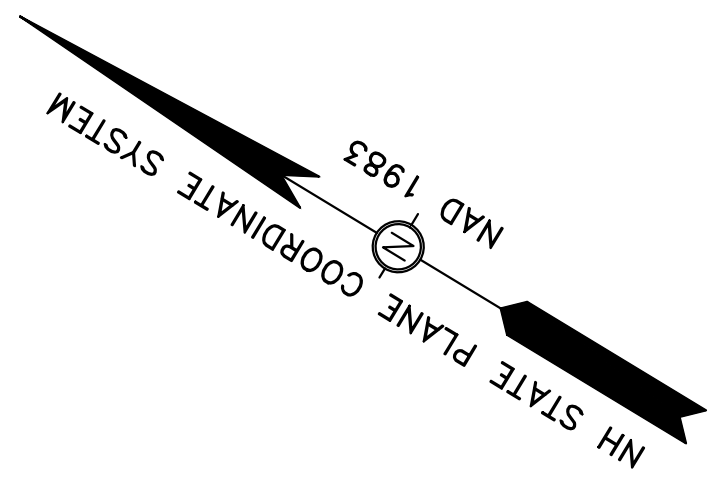
1. DURING ON-SITE TRACING OF SEWER MAIN DPW CREW COULD ONLY TRACE TO STA 30+25 AND CHANGE IN DIRECTION OF MAIN LOCATION COULD NOT BE IDENTIFIED.
2. CONTRACTOR SHALL TEST PIT AREA AT WOODBURY & MORNING INTERSECTION TO VERIFY LOCATION WHERE EXISTING SEWER MAIN MAKES TURN DOWN MORNING STREET. THIS IS THE PROPOSED FINAL LOCATION FOR NEW SMH. CONTRACTOR SHALL WORK WITH CITY DPW TO VERIFY OPTIMAL LOCATION FOR SMH PRIOR TO ORDERING STRUCTURE.
3. SEWER MAIN PIPE RUNS THAT HAVE LESS THAN 10' OF SEPARATION FROM WATER MAIN DUE TO THE NARROW ROAD HAVE BEEN IDENTIFIED AS PVC SDR21 PRESSURE PIPE.
4. SEWER PIPE RUNS GREATER THAN 7.0% SHALL HAVE RIPLEY DAMS PLACED EVERY 25' OF THE TRENCH.
5. CONTRACTOR SHALL NOTIFY ENGINEER OF FINAL PSMH14 LOCATION AND INVERT INFORMATION. ENGINEER MAY NEED TO REVISE THE DESIGN TO ACCOMMODATE THE PLACEMENT OF PSMH14 AND SUBMIT TO NHDES FOR APPROVAL.
6. SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN.
7. RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.



PLAN VIEW



PROFILE



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

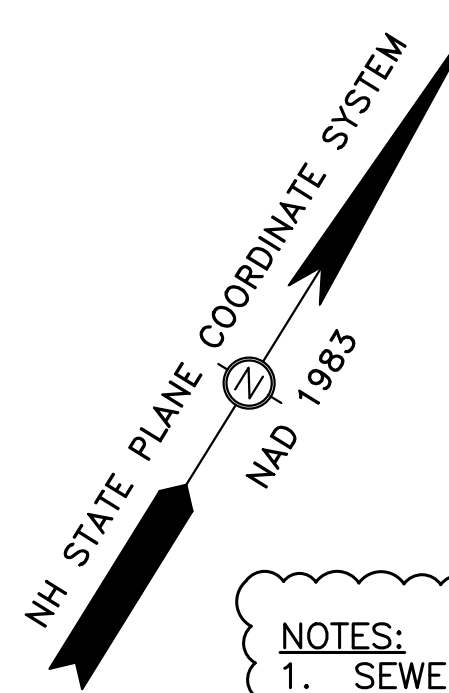
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

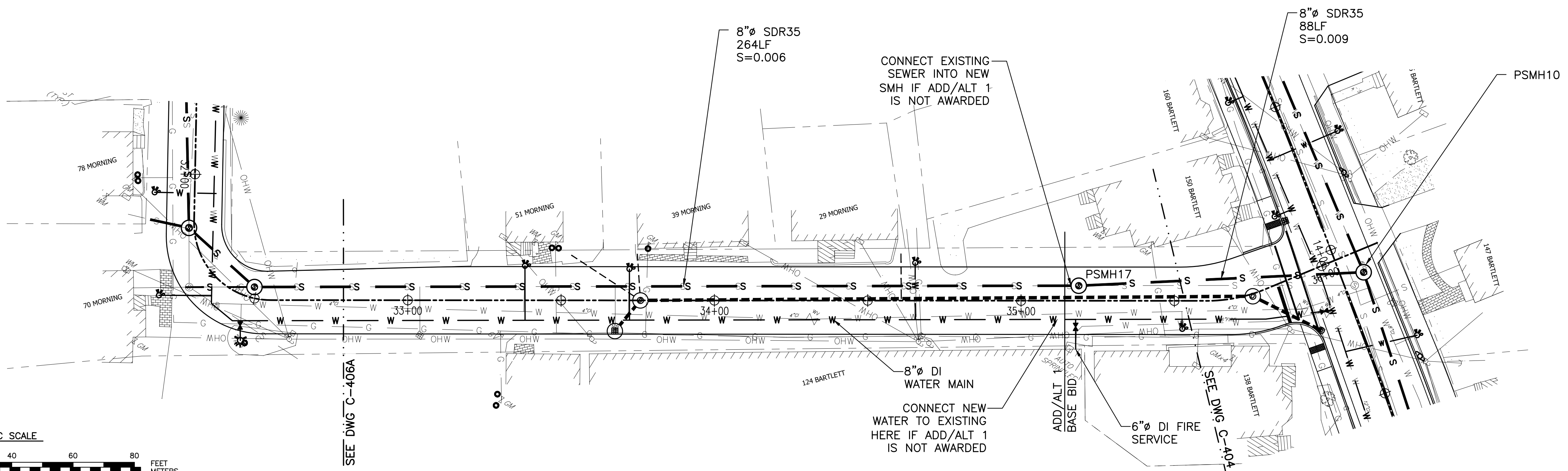
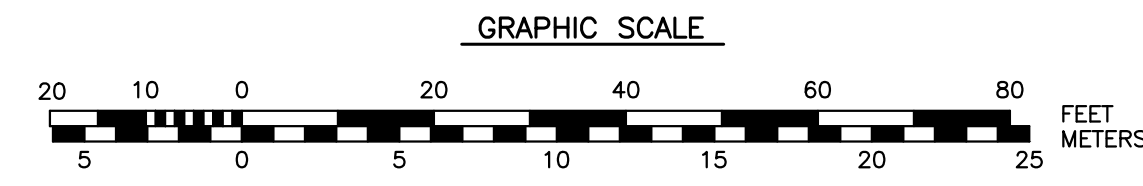
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN

SHEET: C-406A



NOTES:

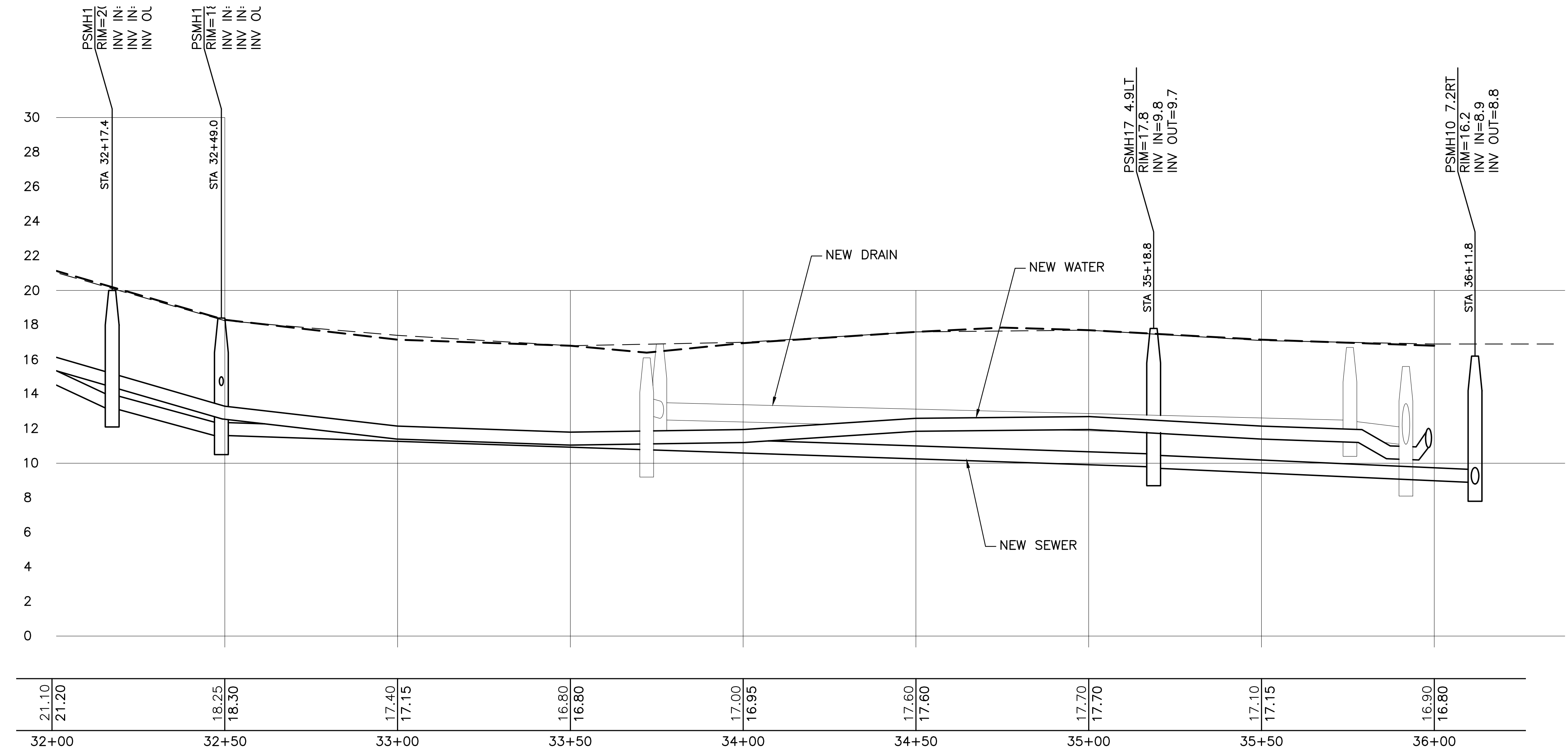
- SEWER SERVICES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO FIELD LOCATE TIE-IN LOCATIONS AND MAKE CONNECTIONS TO NEW MAIN.
- RUBBER BOOT CONNECTIONS (FERNCO) ONLY ALLOWED WHEN A GASKETED COUPLING IS NOT MANUFACTURED FOR THE APPLICATION. RUBBER BOOT CONNECTIONS REQUIRE A 16x8x2 SOLID PAVER BLOCK PLACED UNDER THE BOOT, CENTERED ON THE JOINT.



PLAN VIEW

NOTES:

- LOCATIONS WHERE SEWER HAS LESS THAN 6 FEET OF COVER (STA 32+50 TO STA 34+25) SHALL HAVE 2" RIGID FOAM INSULATION PLACED ON SAND BACKFILL.



PROFILE

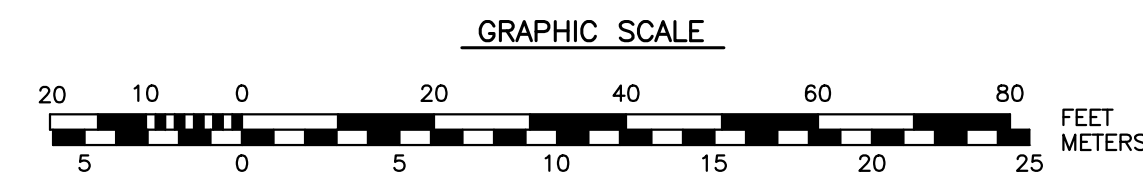
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN
SHEET: C-406B



2" FLUSHING HYDRANT ASSEMBLY

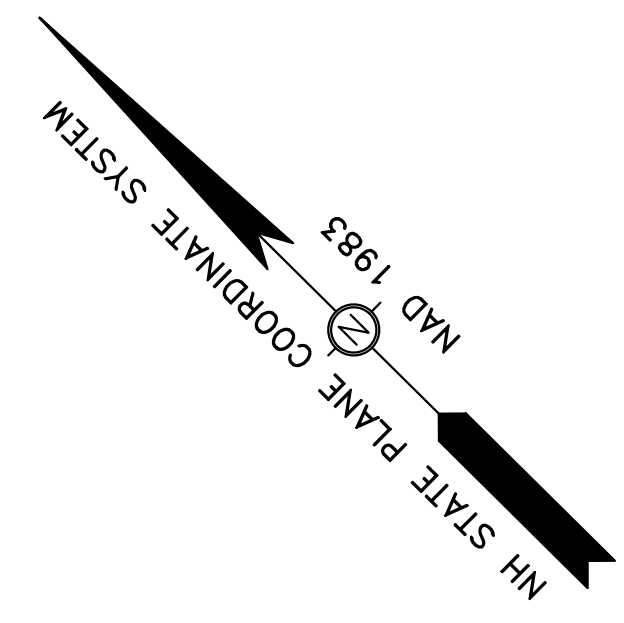
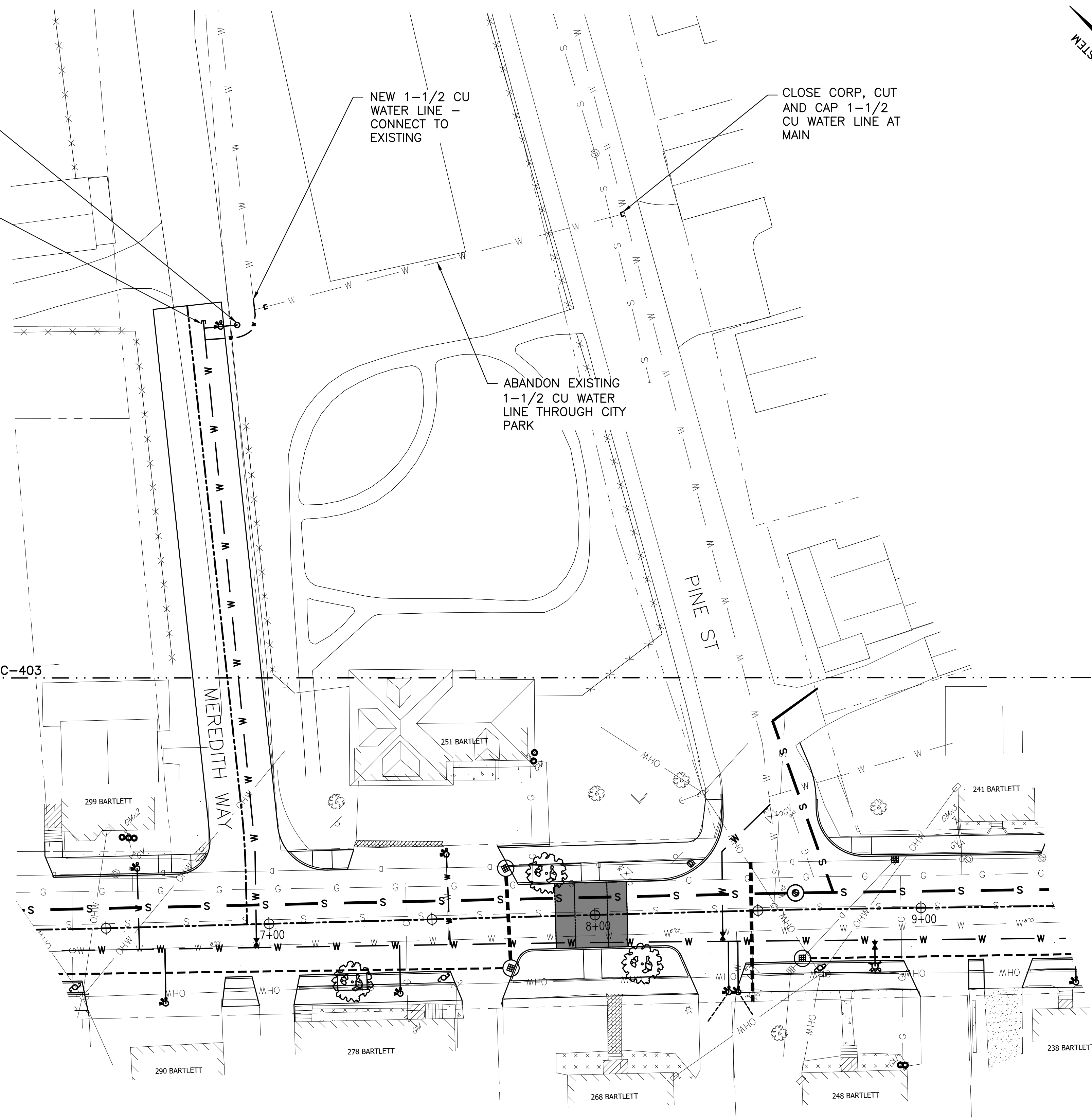
4"Ø DI WATER MAIN (CAPPED FOR FUTURE USE)

NEW 1-1/2 CU WATER LINE - CONNECT TO EXISTING

CLOSE CORP, CUT AND CAP 1-1/2 CU WATER LINE AT MAIN

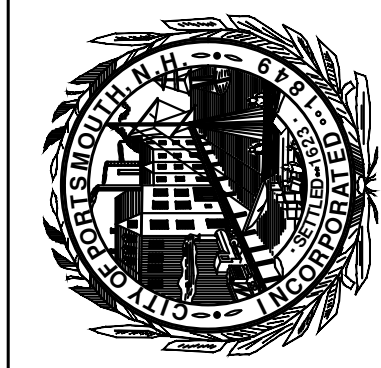
ABANDON EXISTING 1-1/2 CU WATER LINE THROUGH CITY PARK

DWG. C-403



NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: UTILITY & PROFILE PLAN

SHEET: C-407

PROJECT NAME AND LOCATION:

BARTLETT STREET RECONSTRUCTION
PORTSMOUTH, NEW HAMPSHIRE

DESCRIPTION:

THE PROJECT CONSISTS OF:
INSTALLATION OF NEW UNDERGROUND UTILITIES (WATER, SEWER AND DRAINAGE) ON:

- BARTLETT STREET (MORNING ST. TO DENNETT ST.)
- THORNTON STREET (WOODBURY AVE. TO BARTLETT ST.)
- MORNING STREET (WOODBURY AVE. TO BARTLETT ST.)
- STREETSCAPING (SIDEWALKS, CURBING, LANDSCAPING AND ROADWAY) RECONSTRUCTION AT THE LOCATIONS LISTED ABOVE, ADDITIONALLY WOODBURY AVE (MORNING ST. TO BARTLETT ST.).

CONSTRUCTION SEQUENCE:

1. INSTALL ALL EROSION CONTROL MEASURES.
2. INSTALLATION OF SEWER, WATER AND DRAINAGE SYSTEMS.
3. RECLAIM EXISTING ASPHALT PAVEMENT.
4. GRADE AND COMPACT BASE MATERIALS.
5. PLACE BASE COURSE OF ROADWAY PAVEMENT.
6. RESET CURBING AND CONSTRUCT NEW SIDEWALKS.
7. FINISH GRADE BEHIND SIDEWALKS.
8. PLACE SEED AND MULCH ON LOAMED AREAS.
9. PLACE WEARING COURSE OF PAVEMENT.
10. INSTALL ALL ROADWAY STRIPING AND SIGNS.
11. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES:

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM OF 0.5" OR GREATER. ALL DAMAGED SILT FENCES SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. CONSTRUCT SILT FENCE AROUND TOPSOIL STOCKPILE.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

DISTURBED AREAS SHALL BE SEEDED WITHIN 72 HOURS FOLLOWING FINISHED GRADING.

AT NO TIME SHALL ANY DISTURBED AREA REMAIN UNSTABILIZED FOR LONGER THAN 72 HOURS. ALL AREAS WHERE CONSTRUCTION IS NOT COMPLETE WITHIN THIRTY DAYS OF THE INITIAL DISTURBANCE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

INSTALLATION PROCEDURES OF EROSION AND SEDIMENT CONTROLS:

A. VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	SEEDING RATE
CREeping RED FESCUE	100 LBS/ACRE
KENTUCKY BLUEGRASS	100 LBS/ACRE
SLOPE SEED (ALL SLOPES GREATER THAN OR EQUAL TO 3:1)	
CREeping RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
BIRDSFOOT TREFOLI	2 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

PERENNIAL RYE:	0.7 LBS/1,000 S.F.
MULCH:	1.5 TONS/ACRE

B. MULCHING

IN ORDER TO BE EFFECTIVE, MULCHING MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO TYPES OF STANDARDS: APPLY MULCH PRIOR TO ANY STORM EVENT: THIS IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER FORECASTS FOR ADEQUATE WARNING TO SIGNIFICANT STORMS. REQUIRED MULCHING WITHIN SPECIFIED TIME PERIOD: THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY IN AN AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS AND THE POTENTIAL FOR IMPACT ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

WHEN MULCH IS TO BE APPLIED TO PROVIDE PROTECTION OVER WINTER MONTHS, IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER SHALL BE ADDED TO THE MULCH.

C. WINTER NOTES

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

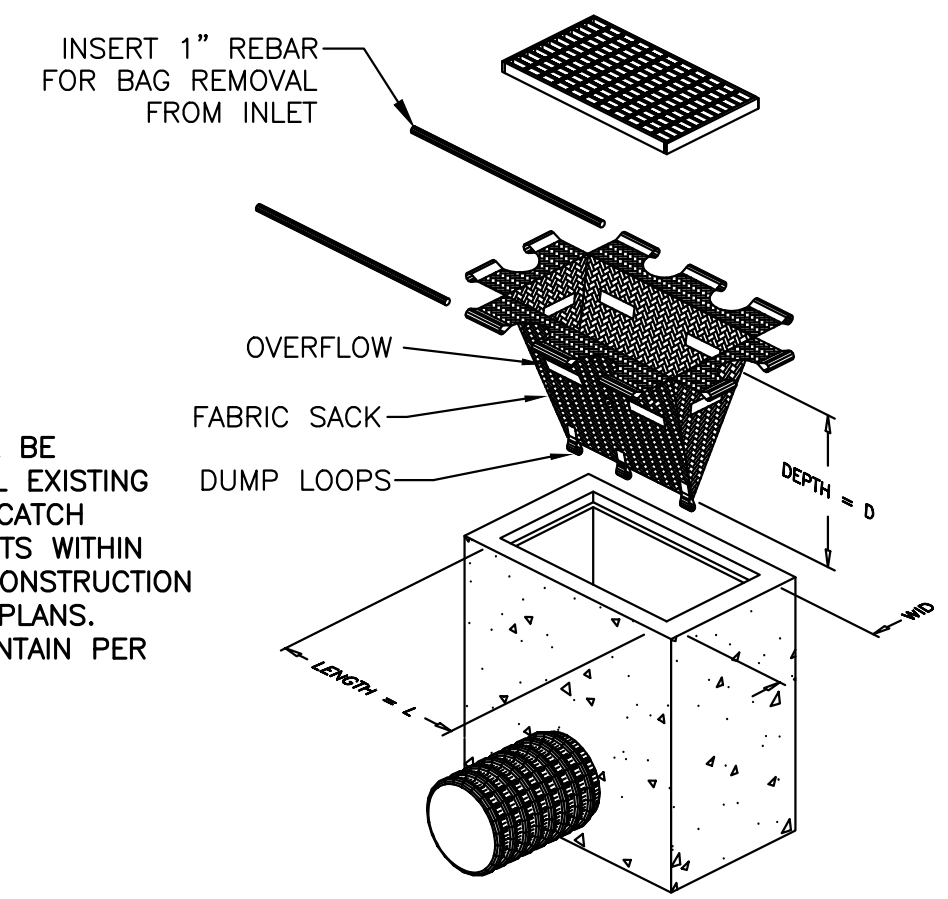
AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

MAINTENANCE AND PROTECTION:

1. THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.
3. TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.
4. SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.
5. THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
6. THE SILT FENCE BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
7. SILT FENCING SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE PERMANENTLY SEEDED.

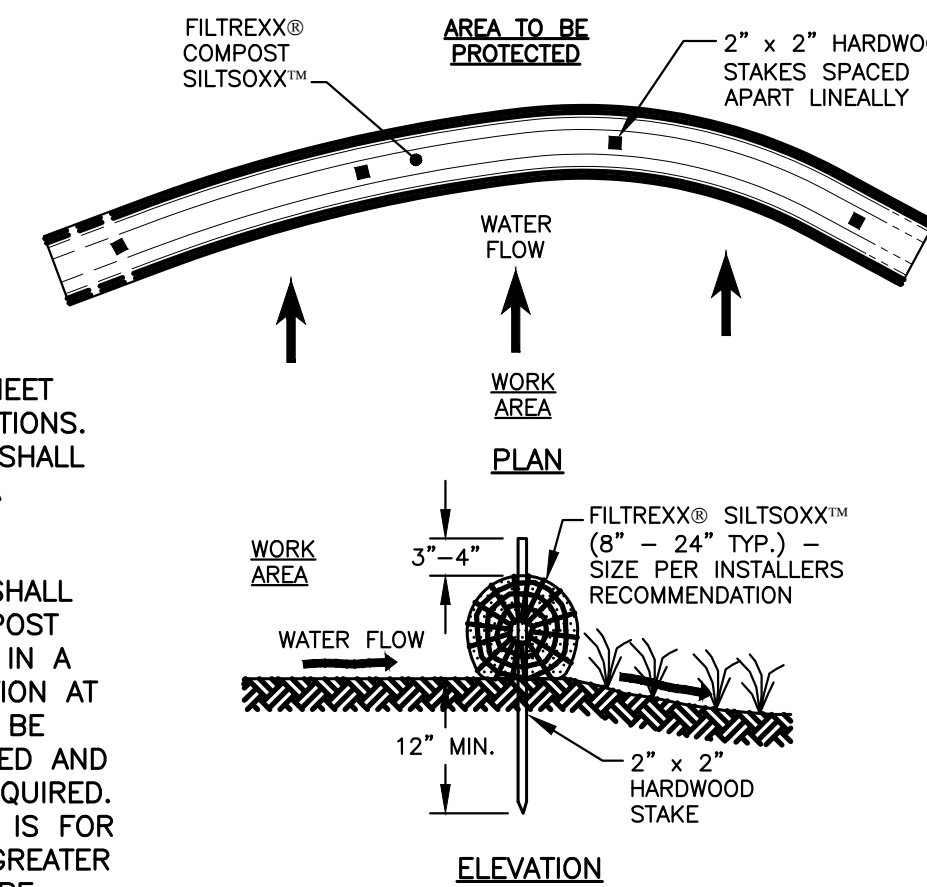
NOTES:

1. SILT SACK SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS AND INLETS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS.
2. INSTALL AND MAINTAIN PER MANUFACTURERS REQUIREMENTS.



DRAINAGE INLET PROTECTION

SCALE: N.T.S

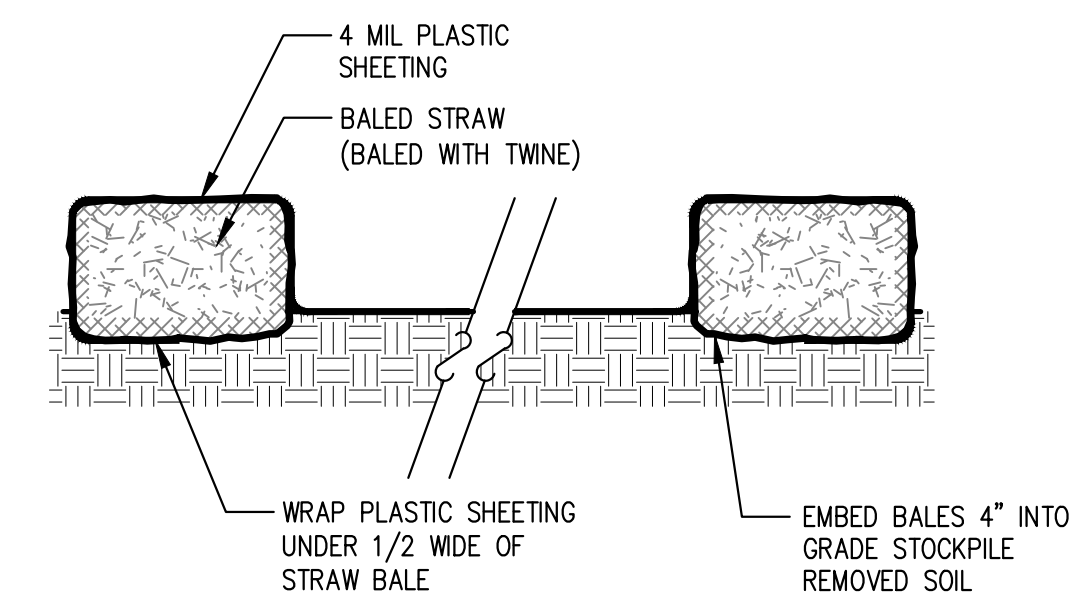


NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. FILTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
2. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
3. SILT SOXX DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

SEDIMENTATION FENCE / LOG

SCALE: N.T.S



NOTES:

1. CONTRACTOR MUST PROVIDE A CONCRETE CLEAN-OUT STATION. NO TRUCK CLEAN-OUT WILL BE ALLOWED WITHOUT CONTAINMENT.
2. PLASTIC WRAP SHALL BE FREE OF TEARS OR HOLES.
3. AFTER BASIN IS USED, WASHWATER FROM WASHOUT BASIN SHALL BE ALLOWED TO EVAPORATE OR BE VACUUMED OUT.
4. REMOVE REMAINING HARDENED SOLIDS.
5. REPLACE PLASTIC SHEETING AND TRAWBALES AS REQUIRED.

CONCRETE CLEAN-OUT

SCALE: N.T.S

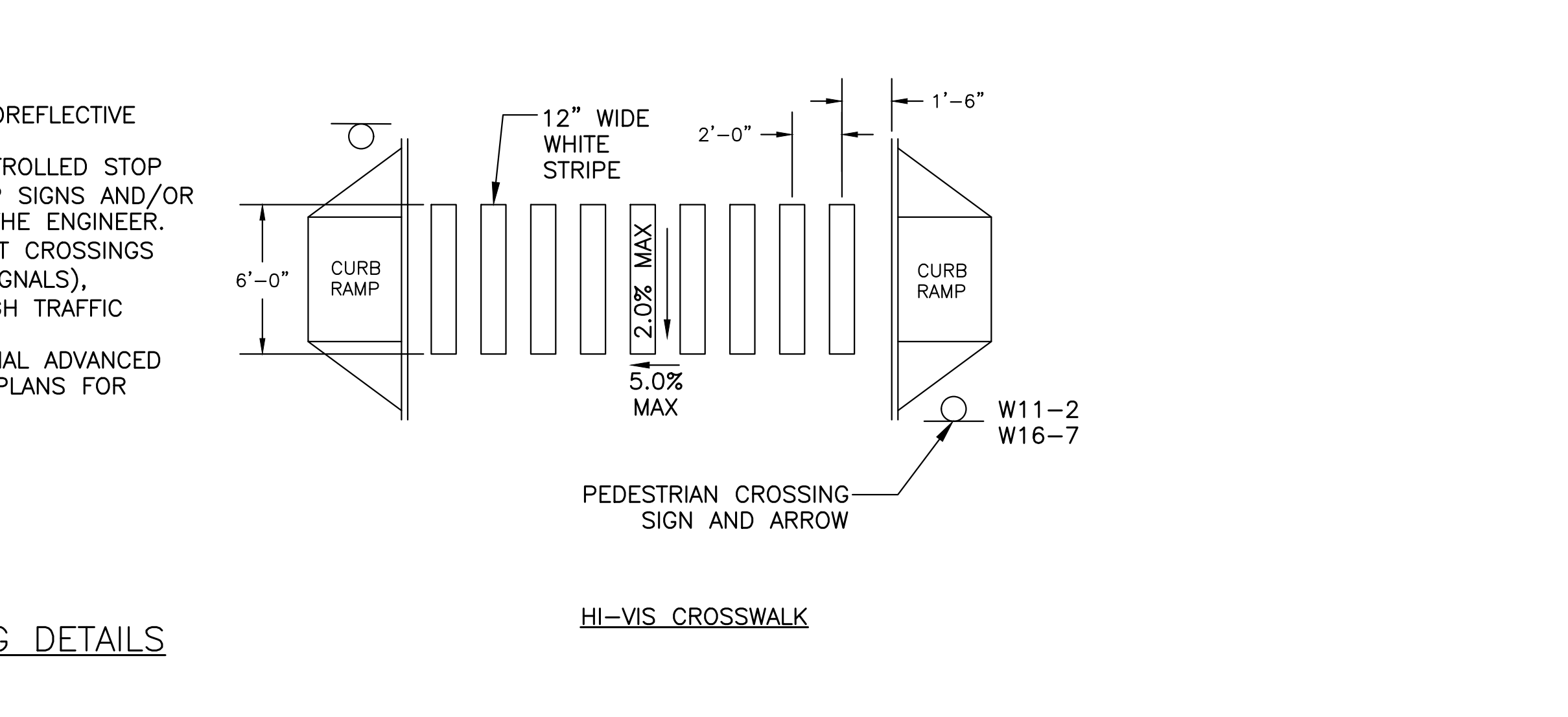
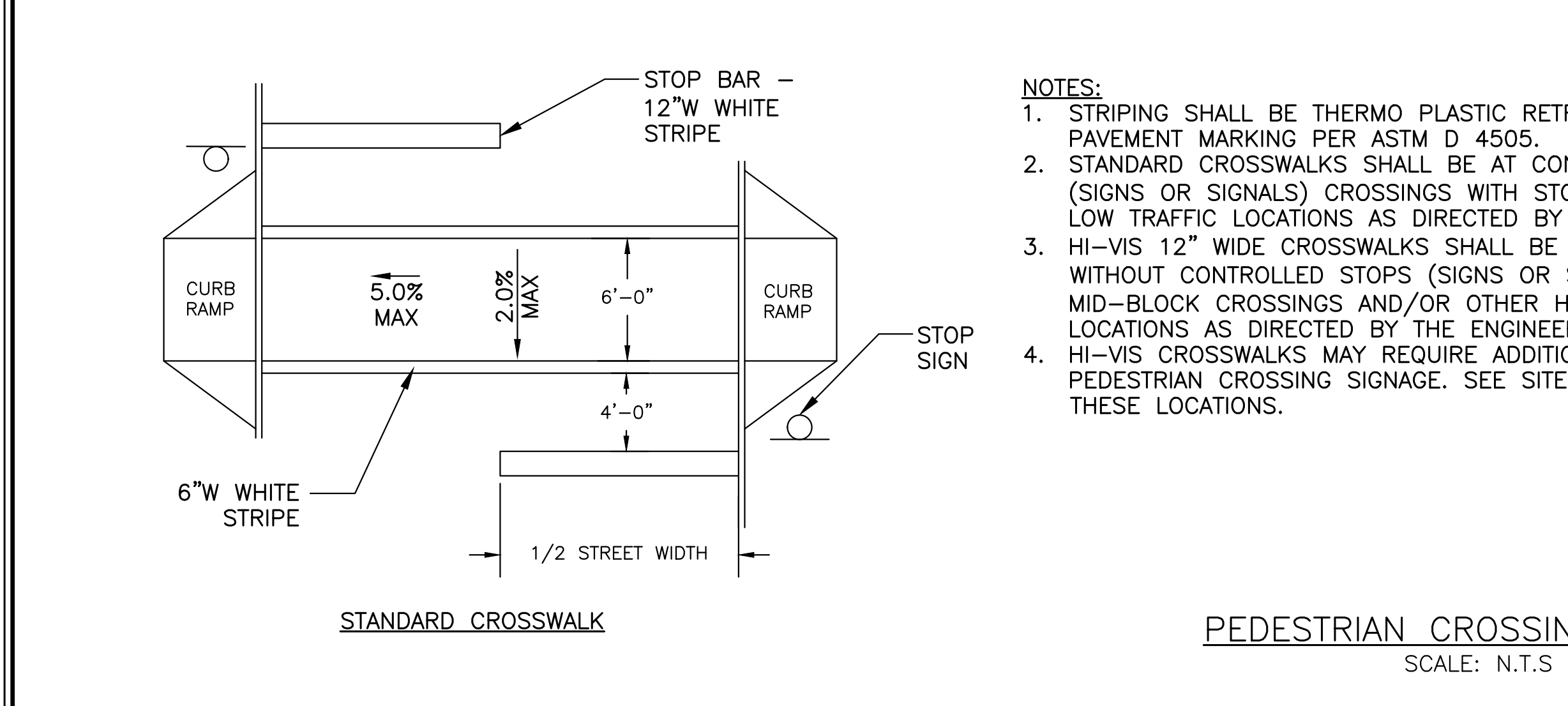
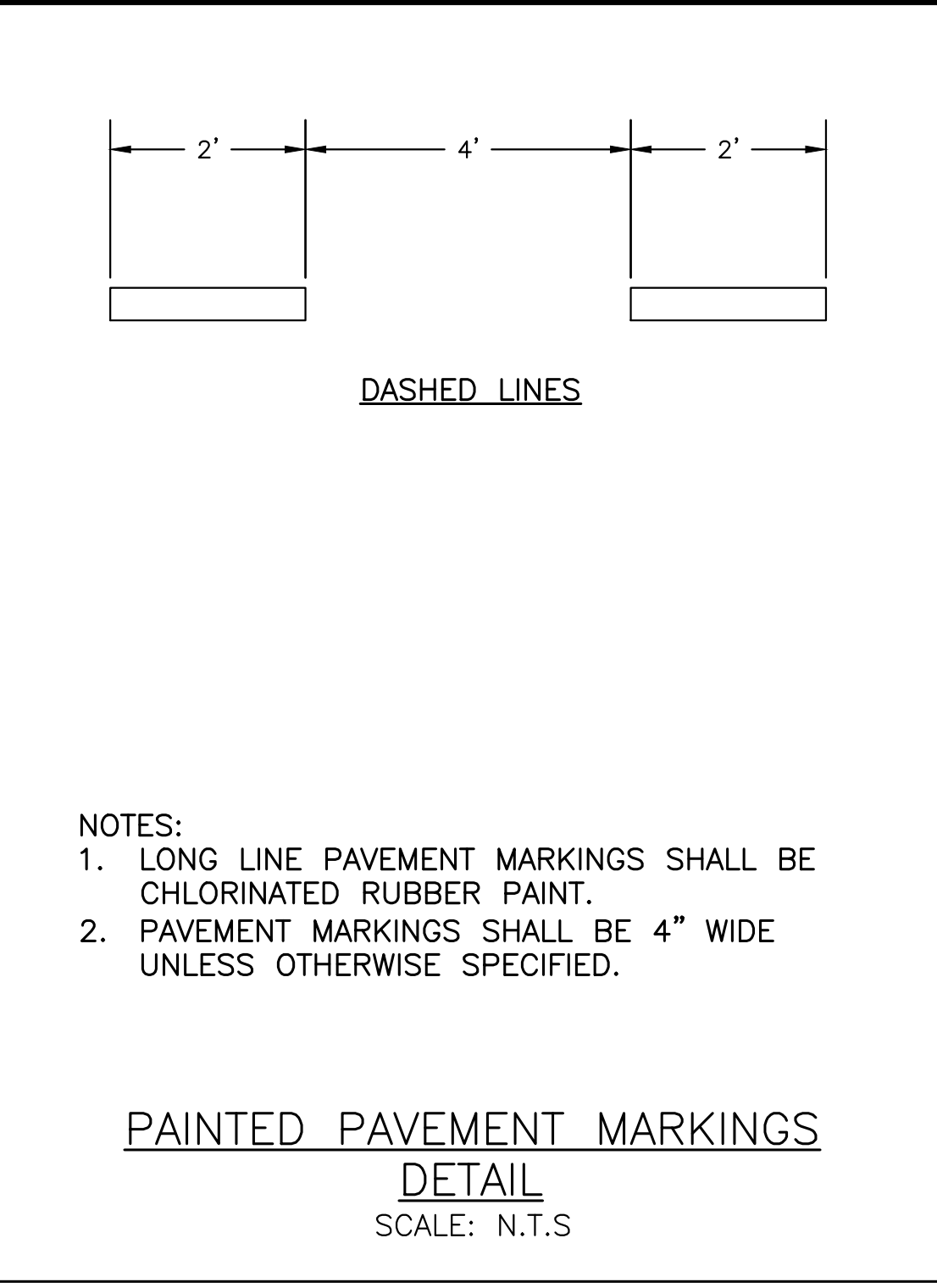
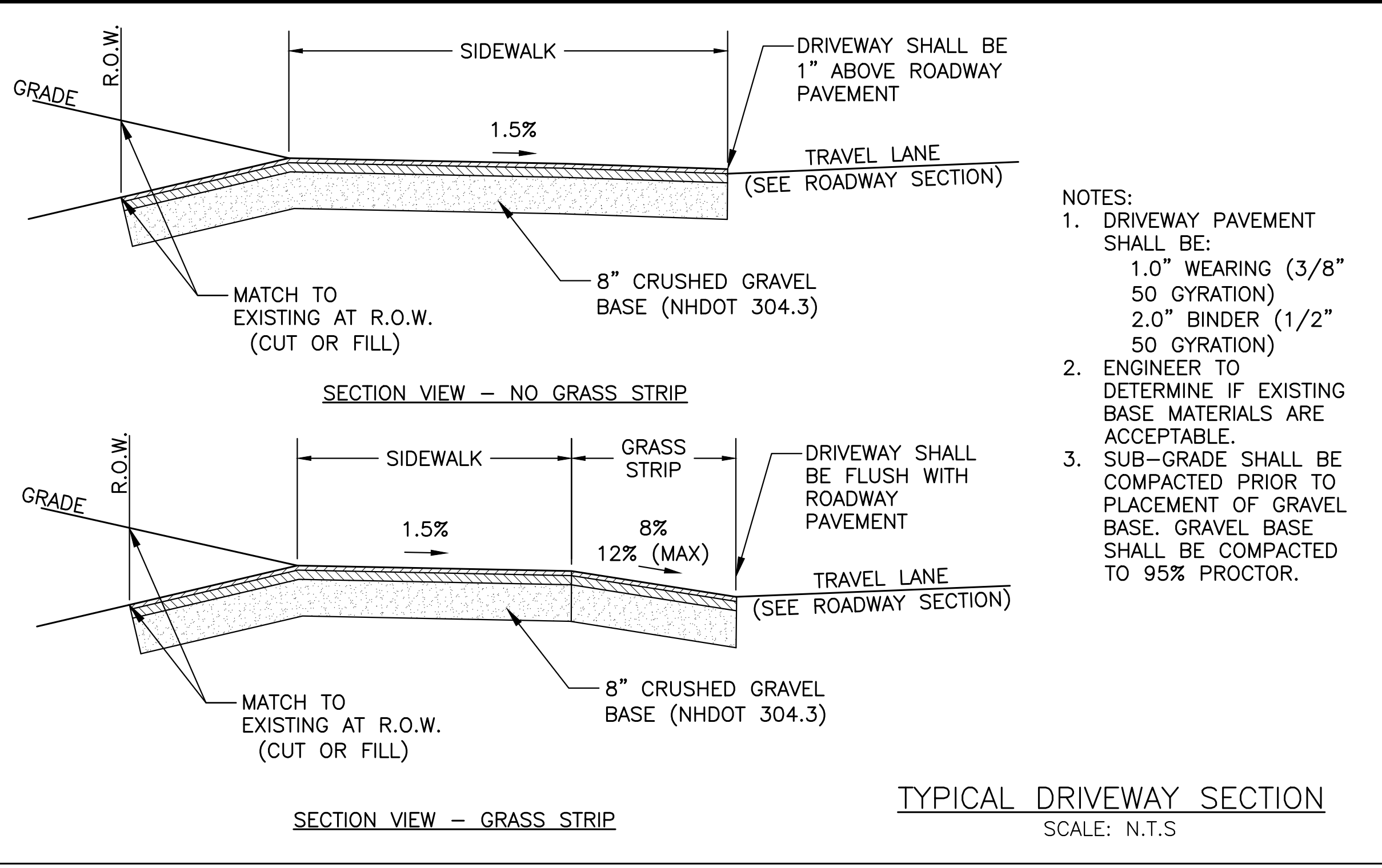
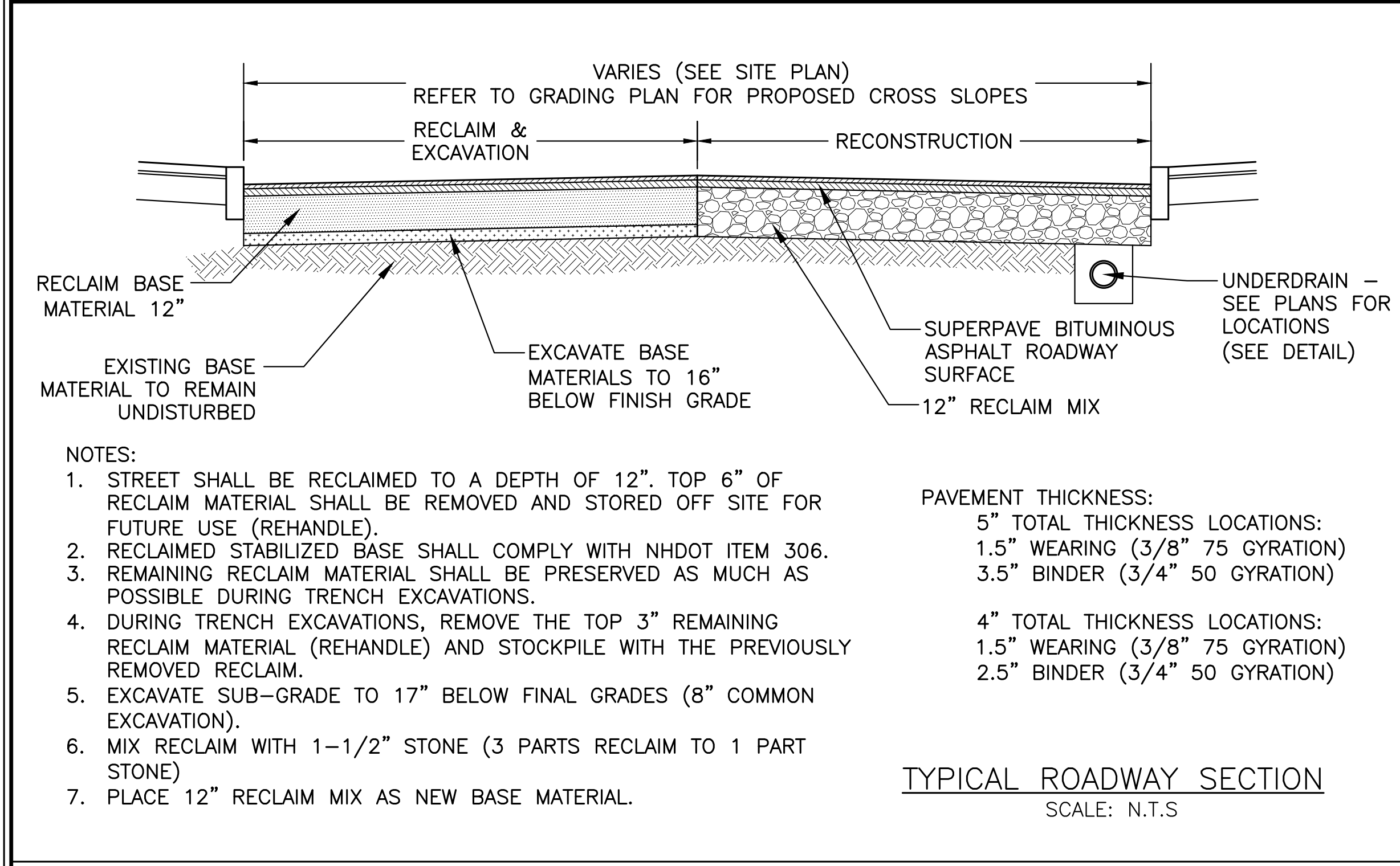
NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530



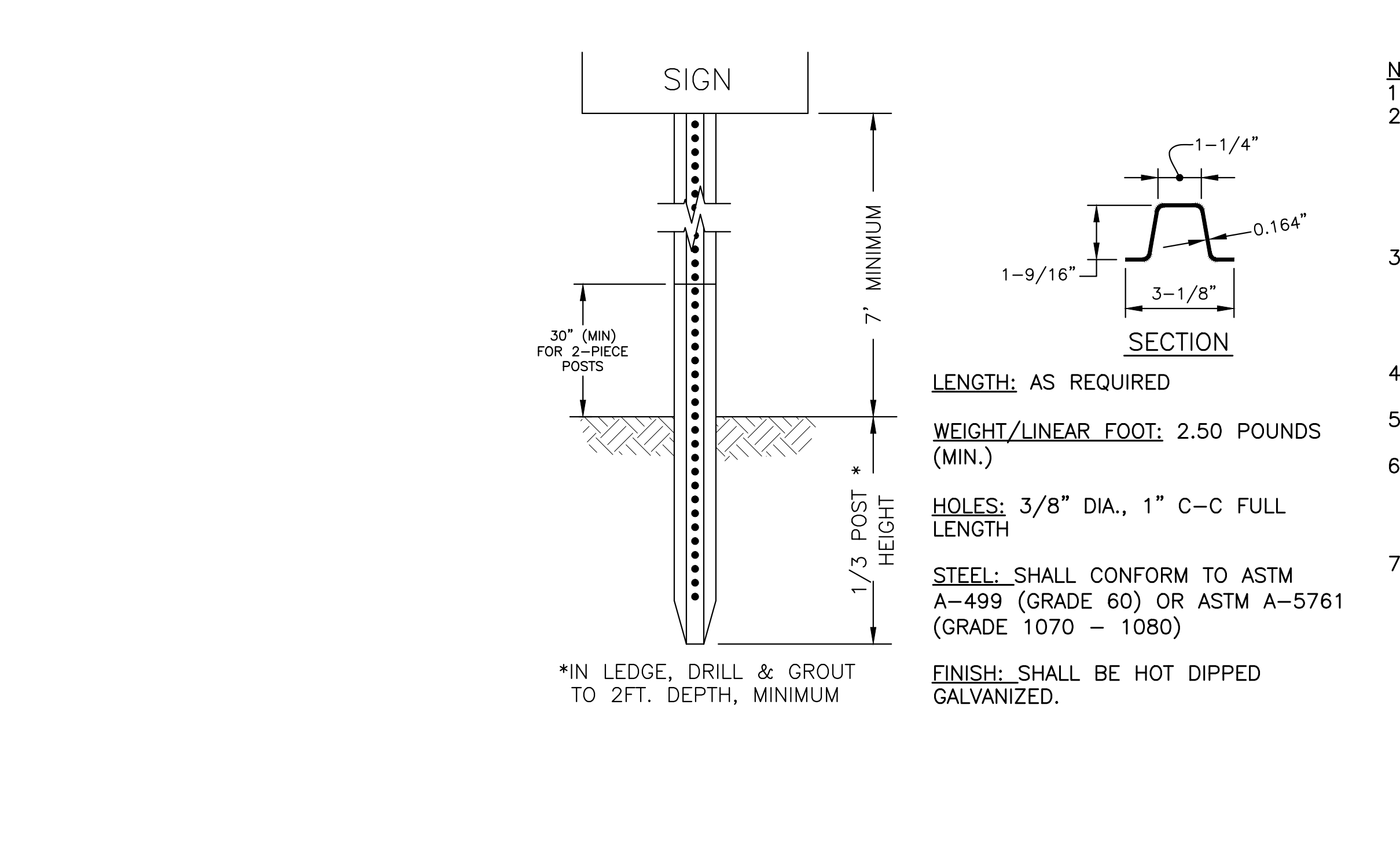
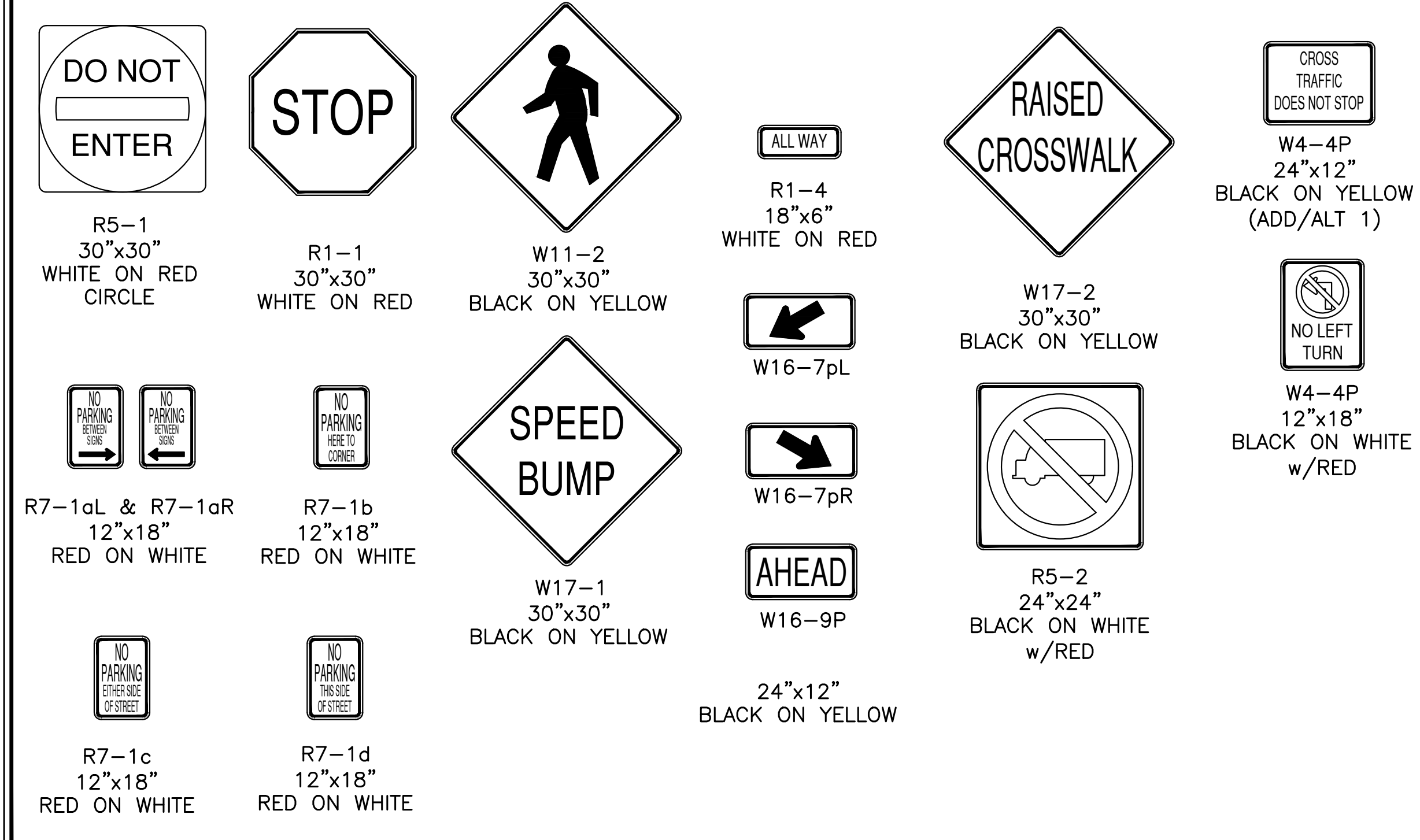
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
SHEET: C-600
TITLE: DETAIL SHEET NOTES & EROSION CONTROL



DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

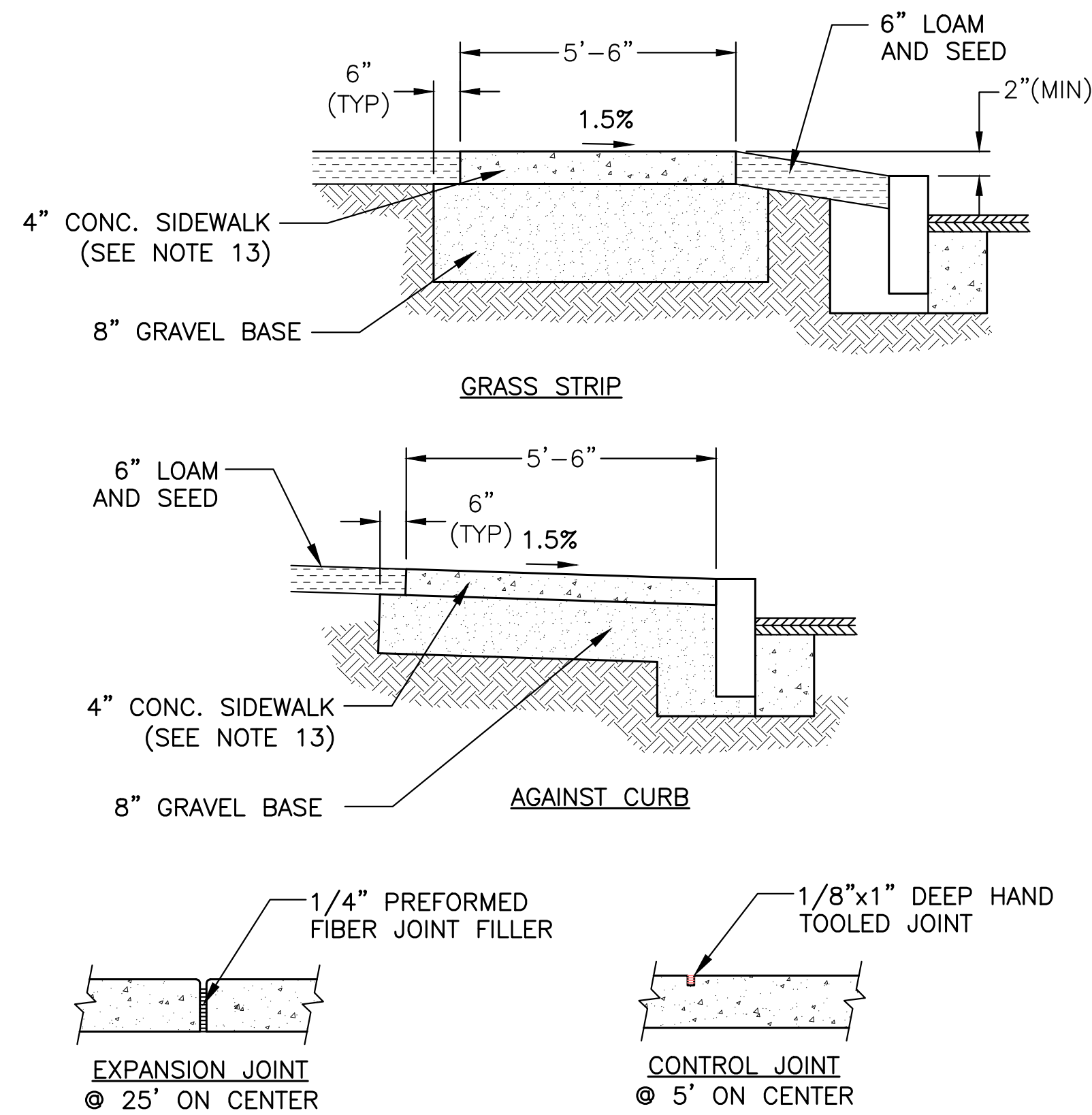


BARTLETT STREET AREA RECONSTRUCTION

DETAIL SHEET ROADWAY

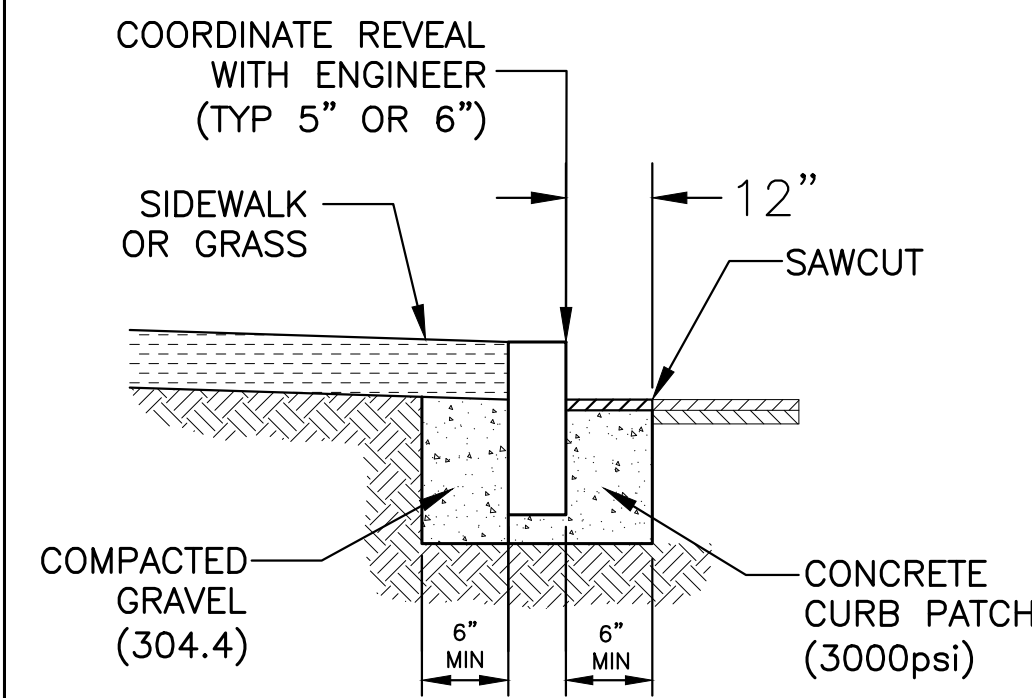
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: DETAIL SHEET ROADWAY
SHEET: C-601

NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	MRB 3/21/24
0	ISSUED FOR BID	MRB 12/9/23
APPD		



- NOTES:**
- MEDIUM BROOM FINISH.
 - JOINTS SHALL BE HAND TOOLED w/ 1/8" RADII.
 - EXPANSION JOINT FIBER FILLER SHALL BE TRIMMED TO 1/4" BELOW SIDEWALK SURFACE FOR SEALANT.
 - THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK GREATER THAN 1/4".
 - SIDEWALK CONCRETE SHALL BE TREATED WITH SILOXANE SEALER NO SOONER THAN 14 DAYS AND NO MORE THAN 45 DAYS AFTER PLACEMENT. REFER TO MANUFACTURERS SPECIFICATIONS FOR REQUIRED TEMPERATURES FOR APPLICATION. SIDEWALKS SHALL BE CLEANED PRIOR TO APPLICATION OF SEALANT.
 - EXPANSION JOINT FIBER SHALL BE USED AT ALL LOCATIONS WHERE CONCRETE ABUTS STRUCTURES (BUILDINGS, RET. WALLS, POLES, ETC.).
 - CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT SIDEWALKS WITH SLOPES COMPLIANT WITH ADA CODES.
 - GRAVEL BASE MATERIALS SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF CONCRETE.
 - SUB-GRADE SHALL BE COMPACTED PRIOR TO PLACEMENT OF GRAVEL BASE. GRAVEL BASE SHALL BE COMPACTED TO 95% PROCTOR.
 - CONTRACTOR SHALL WORK WITH CITY ENGINEER TO DETERMINE T/CONC. GRADES PRIOR TO PLACEMENT OF CONCRETE.
 - CONCRETE SHALL HAVE A STRENGTH OF 4,000psi CLASS AA w/FIBER MESH, AIR ENTRAINMENT (5%-7%) WITH A SLUMP OF 4"-6".
 - BASE MATERIAL SHALL BE NHDOT 304.4.
 - CONCRETE SHALL BE 6" THICK AT ADA CURB RAMPS.

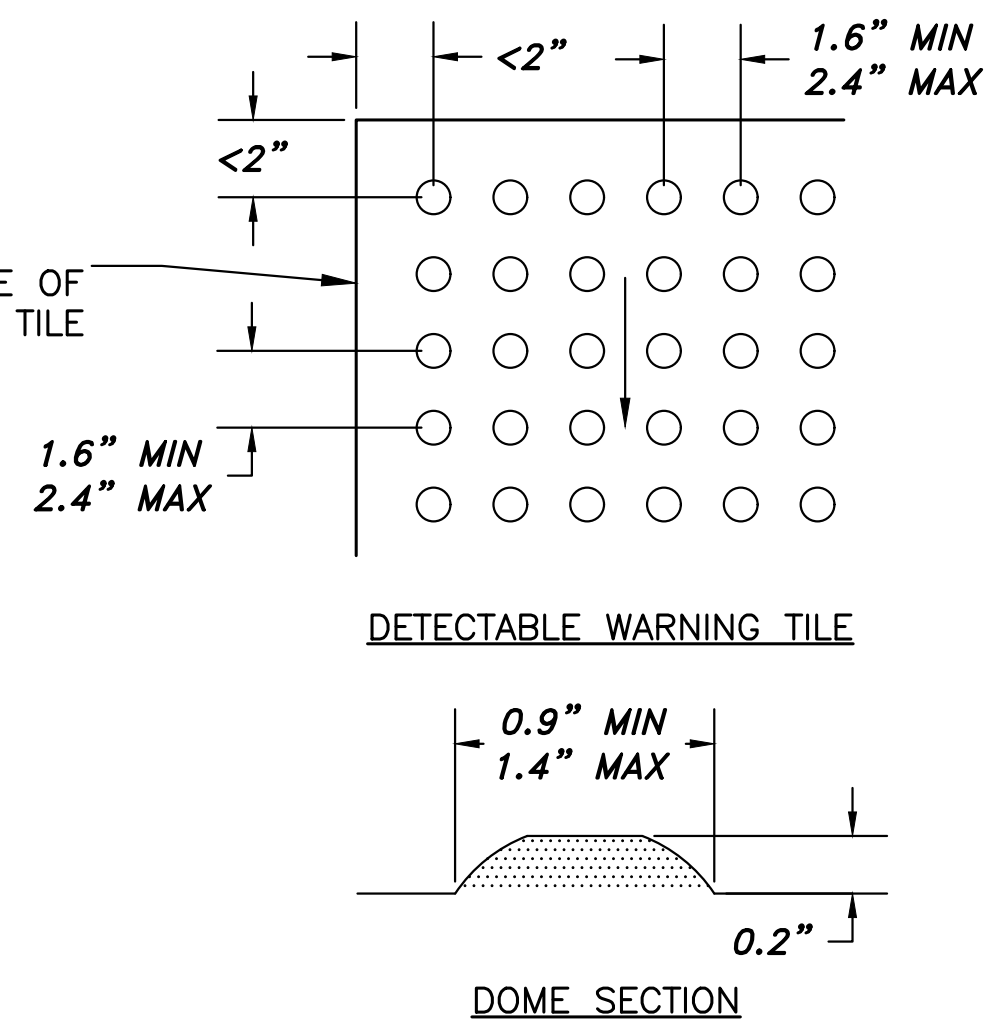
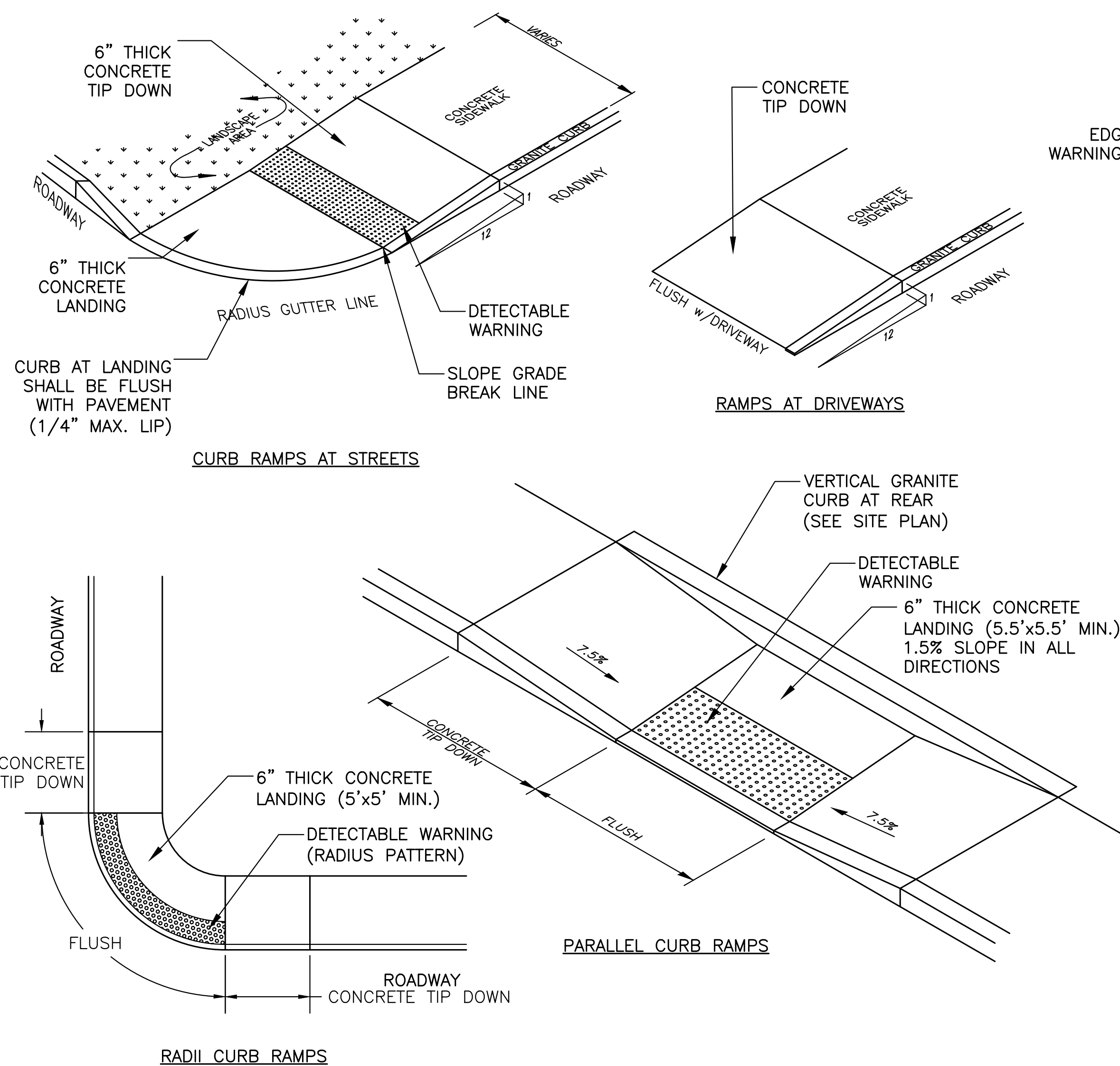
CONCRETE SIDEWALK
SCALE: N.T.S



RADIUS	MAX. LENGTH
<20'	USE CURVED CURB
21'-25'	3'
26'-30'	4'
31'-35'	5'
36'-40'	6'
41'-50'	7'
51'-56'	8'
56'-60'	9'
OVER 60'	10'

VERTICAL GRANITE CURB
SCALE: N.T.S

- NOTES:**
- CURB TO BE SET TO LINE AND GRADE SPECIFIED.
 - ALL RADII 20 FEET AND SMALLER SHALL USE CURVED SECTIONS.
 - CURB AT FLUSH SECTION OF SIDEWALK SHALL BE SET TO 1.5% CROSS SLOPE. CURB AT RAMPS SHALL BE SET TO 7.5% RUNNING SLOPE. IT IS THE CURB CONTRACTORS RESPONSIBILITY TO VERIFY SLOPES WITH A SMART LEVEL.
 - VERTICAL GRANITE JOINTS SHALL BE MORTARED.
 - SEE CHART FOR MAX / MIN STONE LENGTHS.
 - RESET EXISTING CURB. ANY MISSING OR DAMAGED CURB SHALL BE REPLACED WITH MATCHING CURB SIZE (NEW).
 - NO CURB LESS THAN 3' IN LENGTH WILL BE ALLOWED.
 - CURB MATERIAL SHALL BE FROM THE SAME LOT OF GRANITE. VARIANCES IN COLOR AND TYPE WILL NOT BE ACCEPTED.
 - TYPICAL CURB REVEAL SHALL BE 5". VERIFY WITH CITY ENGINEER PRIOR TO CURB INSTALLATION.
 - COMPACTED SELECT BASE MATERIALS MAY BE AS CURB PATCH INSTEAD OF CONCRETE WHEN APPROVED BY THE ENGINEER. GRAVEL CURB PATCH SHALL BE COMPACTED TO THE TOP OF THE BASE MATERIAL LEVEL AND SHALL HAVE BASE ASPHALT PLACED FLUSH WITH ROADWAY BASE.
 - CONTRACTOR SHALL USE JUMPING JACK TO COMPACT ALONG CURB AT LOCATIONS WHERE CONC. BACKFILL IS NOT USED. SELECT BASE MATERIALS FOR SIDEWALK SHALL BE COMPACTED WITH JUMPING JACK ALONG BACK SIDE OF CURB PRIOR TO PLACEMENT OF CONCRETE.

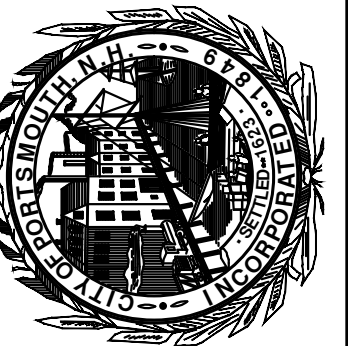


- NOTES:**
- ALL CURB RAMPS AND SIDEWALKS SHALL COMPLY WITH ADA (AMERICANS WITH DISABILITIES ACT).
 - TIP DOWNS SHALL HAVE A RUNNING SLOPE OF 7.5% (8.3% MAX.) AND CROSS SLOPE OF 1.5% (2.0% MAX.).
 - THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK RAMPS GREATER THAN 1/4".
 - LANDINGS AND AREAS OF CHANGE IN DIRECTION SHALL HAVE A SLOPE OF 1.5% (2.0% MAX.) IN ALL DIRECTIONS.
 - DETECTABLE WARNINGS SHALL INSTALLED SO THAT PATTERN IS IN LINE WITH DIRECTION OF TRAVEL TO THE EXTENT POSSIBLE.
 - DETECTABLE WARNING TILES SHALL BE PLACED SO THAT THE EDGE CLOSEST TO THE CURB IS BETWEEN 6"-8" FROM CURB LINE.
 - DETECTABLE WARNING TILE SHALL SPAN THE FULL WIDTH OF THE RAMP AND A MINIMUM OF 24" DEEP.
 - DETECTABLE WARNING TILE SHALL BE CAST IRON, NEENAH FOUNDRY OR APPROVED EQUAL. RADIUS ADA CURB RAMPS SHALL HAVE DETECTABLE WARNING TILES IN A RADIUS PATTERN USING TUFTILE OR APPROVED EQUAL.
 - CONCRETE AT DETECTABLE WARNING RAMPS SHALL BE FIBER REINFORCED WITH A MEDIUM BROOM FINISH.
 - BASE MATERIAL FOR CONCRETE SECTIONS SHALL BE 8" THK CRUSHED GRAVEL BASE (NHDOT 304.3).

CURB RAMP DETAILS
SCALE: N.T.S

NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	3/21/24
0	ISSUED FOR BID	12/9/23

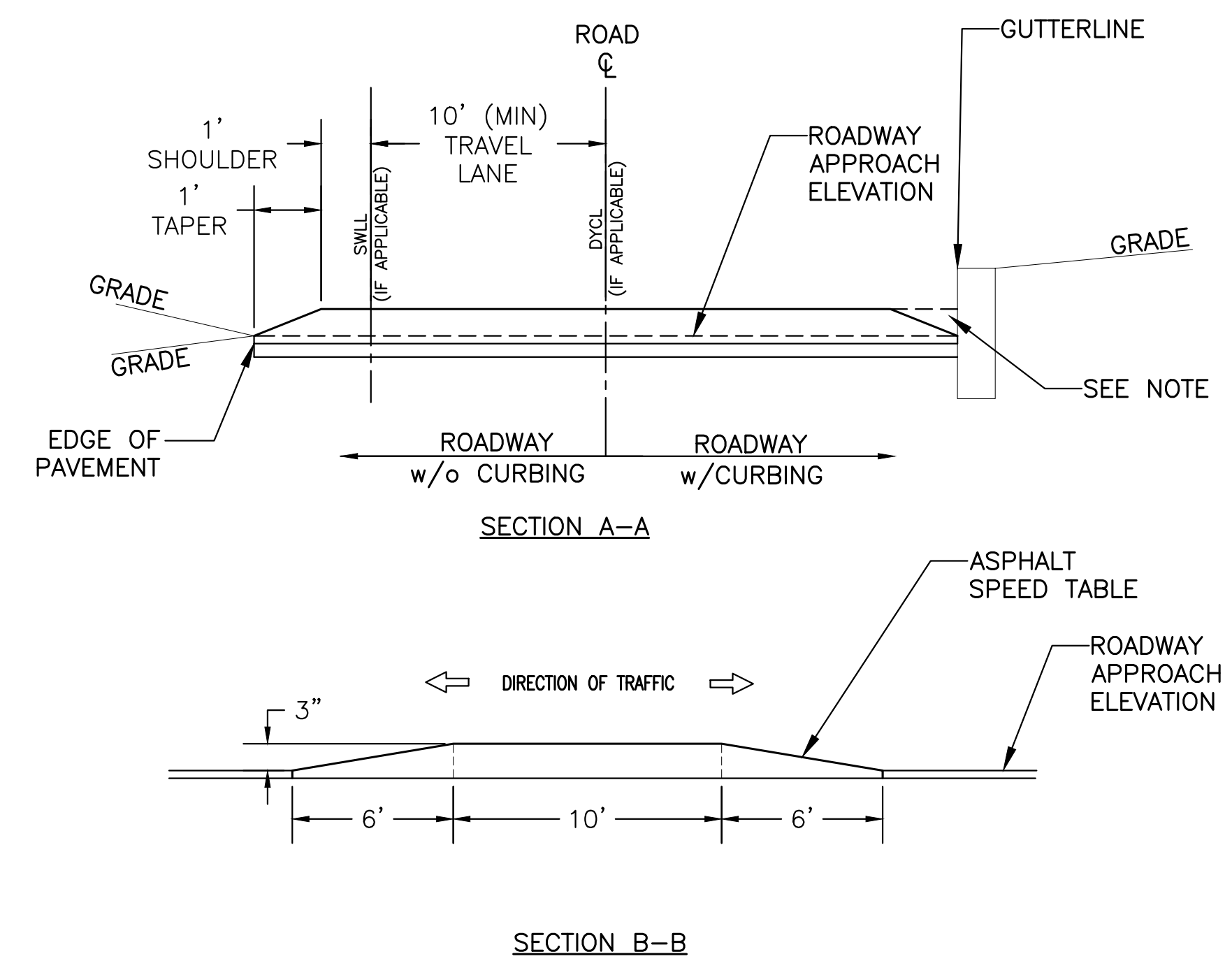
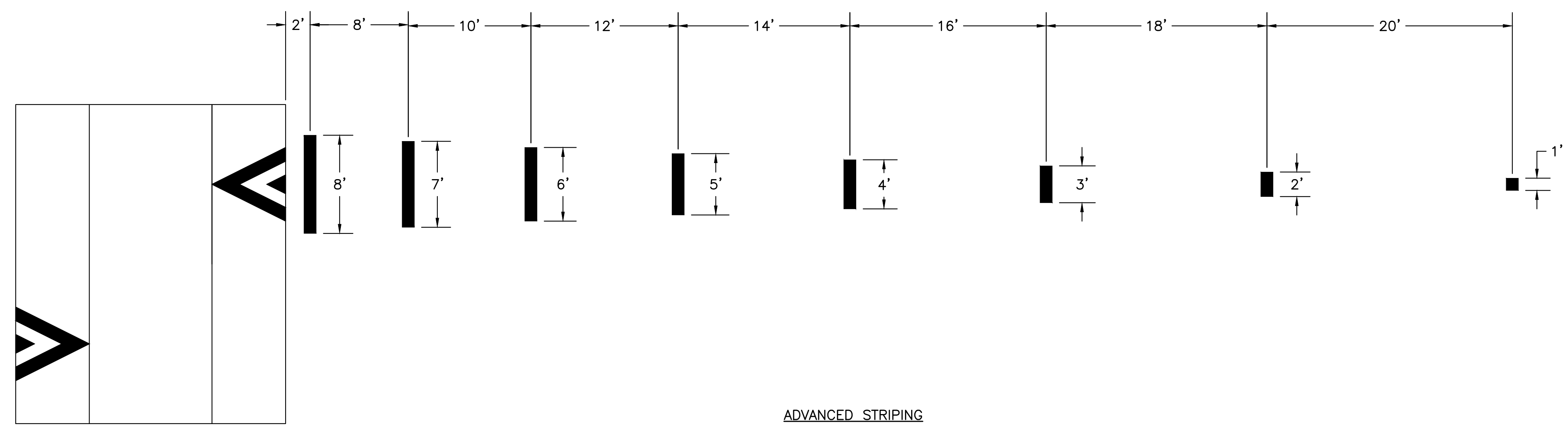
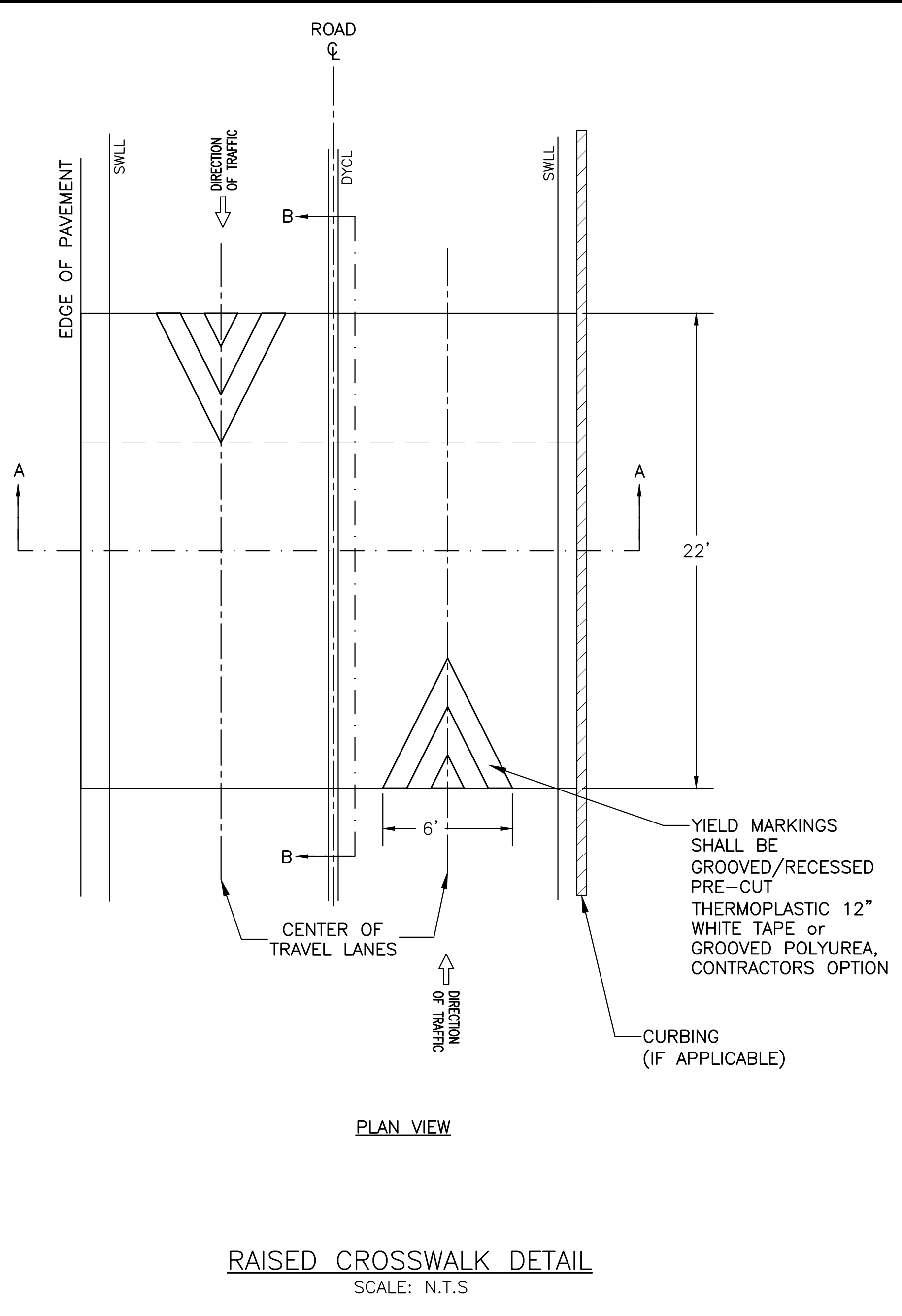
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA
RECONSTRUCTION
SHEET: DETAIL SHEET
SIDEWALK

C-602



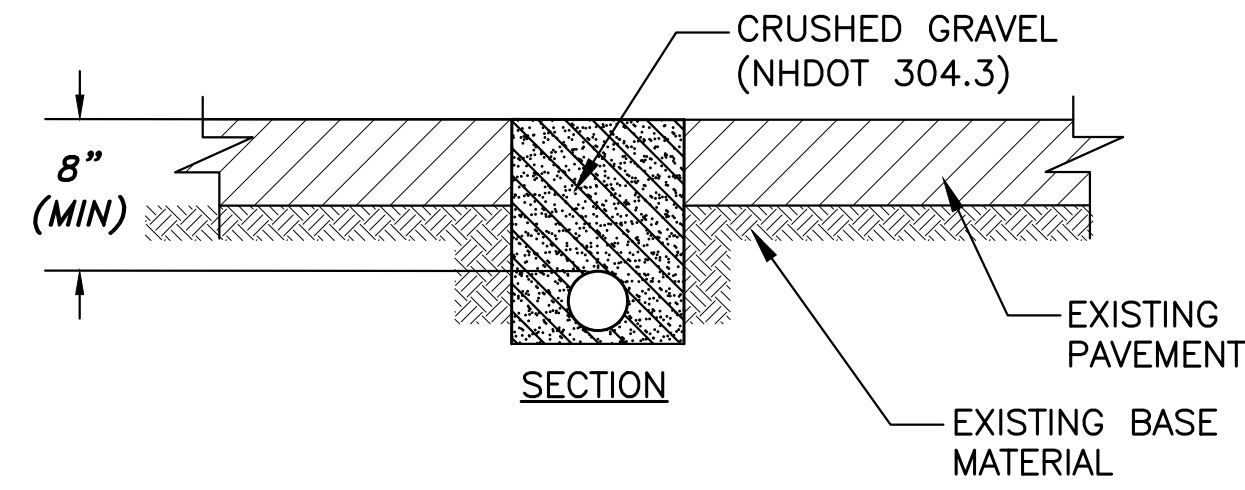
- NOTES:
- SPEED TABLE SHALL BE KEYED INTO WEARING COURSE OF PAVEMENT BY 1.5".
 - PLACE ASPHALT FOR SPEED TABLE IN TWO LIFTS:
 - 3" BOTTOM LIFT TO BE ROLLED.
 - 1.5" TOP LIFT TO BE PLATE COMPACTED PERPENDICULAR TO THE DIRECTION OF TRAVEL TO ENSURE A CRISP TRANSITION FROM RAMP TO TOP OF TABLE.
 - APPLY TACK COAT AT MILLED OUT KEY AND ANY EXISTING PAVEMENT PRIOR TO PLACING BOTTOM LIFT.
 - SPEED TABLE MAY CONTINUE AS FULL HEIGHT TO THE FACE OF CURB ONLY IF ADDITIONAL DRAINAGE PROVISIONS HAVE BEEN MADE.
 - INSTALL SIGNS PER MUTCD SECTION 2C.29.
 - SOURCE / REFERENCES:
 - MUTCD SECTION 3B.25 FIGURE 3B-30
 - ITE PROPOSED RECOMMENDED PRACTICE, GUIDELINE FOR THE DESIGN AND APPLICATION OF SPEED TABLES.
 - MILLING EXISTING SURFACE FOR KEYED IN JOINT IS SUBSIDIARY TO THE SPEED TABLE PAY ITEM.
 - SPEED TABLES SHALL NOT BE INSTALLED UNTIL SIGNAGE IS IN PLACE AND READY TO REVEAL AND CHEVRON STRIPING IS SCHEDULED TO OCCUR WITHIN 48 HOURS OF SPEED TABLE INSTALLATION.
 - CONTRACTOR SHALL PLACE TEMPORARY 12" WIDE REFLECTIVE TAPE IN THE FORM OF THE REQUIRED CHEVRONS PRIOR TO OPENING TO TRAFFIC. COST OF TEMPORARY TAPE IS SUBSIDIARY TO THE SPEED TABLE PAY ITEM.

NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
0	ISSUED FOR BID	MRB	12/9/23

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630

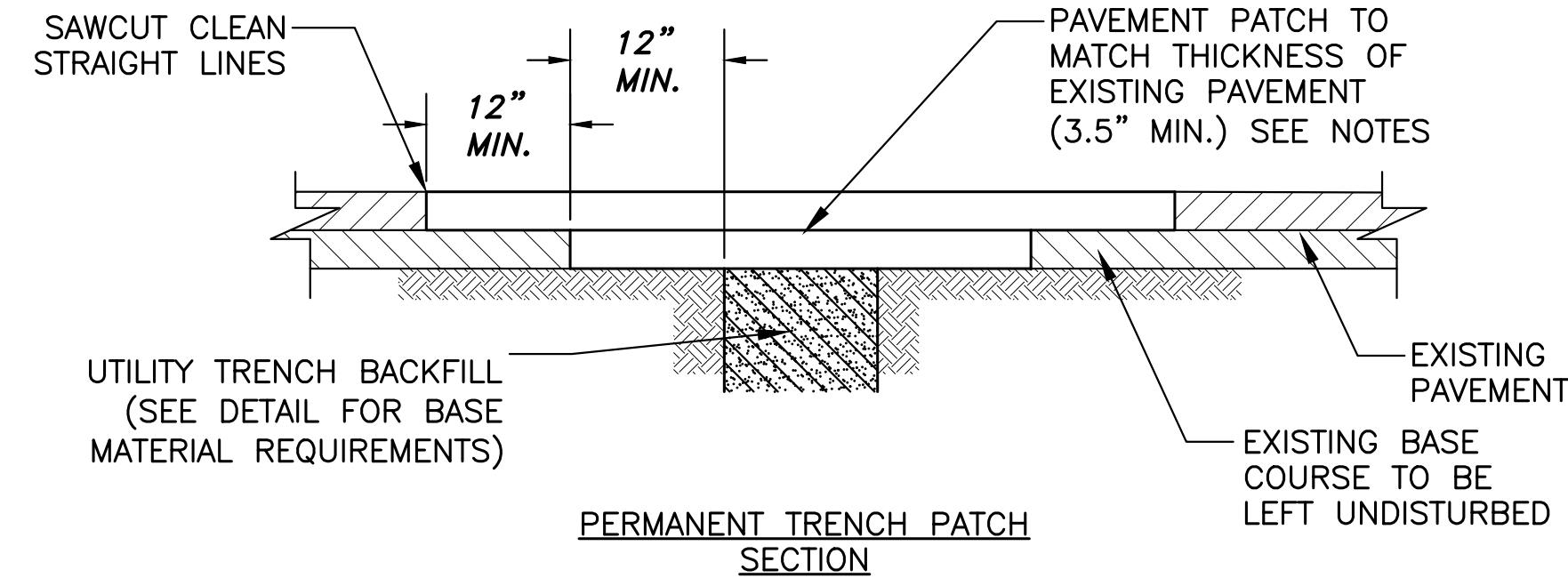
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: DETAIL SHEET SITE
SHEET: C-603



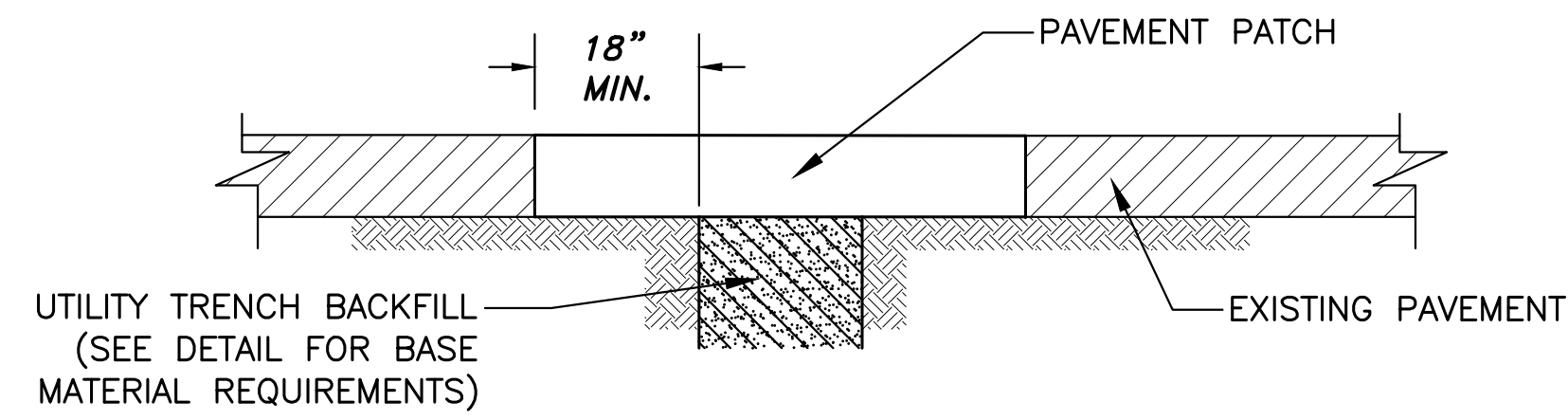
- NOTES:**
- CONTRACTOR SHALL PLACE TEMPORARY WATER IN TRENCH AT ALL ROADWAY AND DRIVEWAY CROSSINGS. COST OF TRENCH IS INCIDENTAL TO THE TEMPORARY WATER PAY ITEM.

TEMPORARY WATER PIPE TRENCH
SCALE: N.T.S



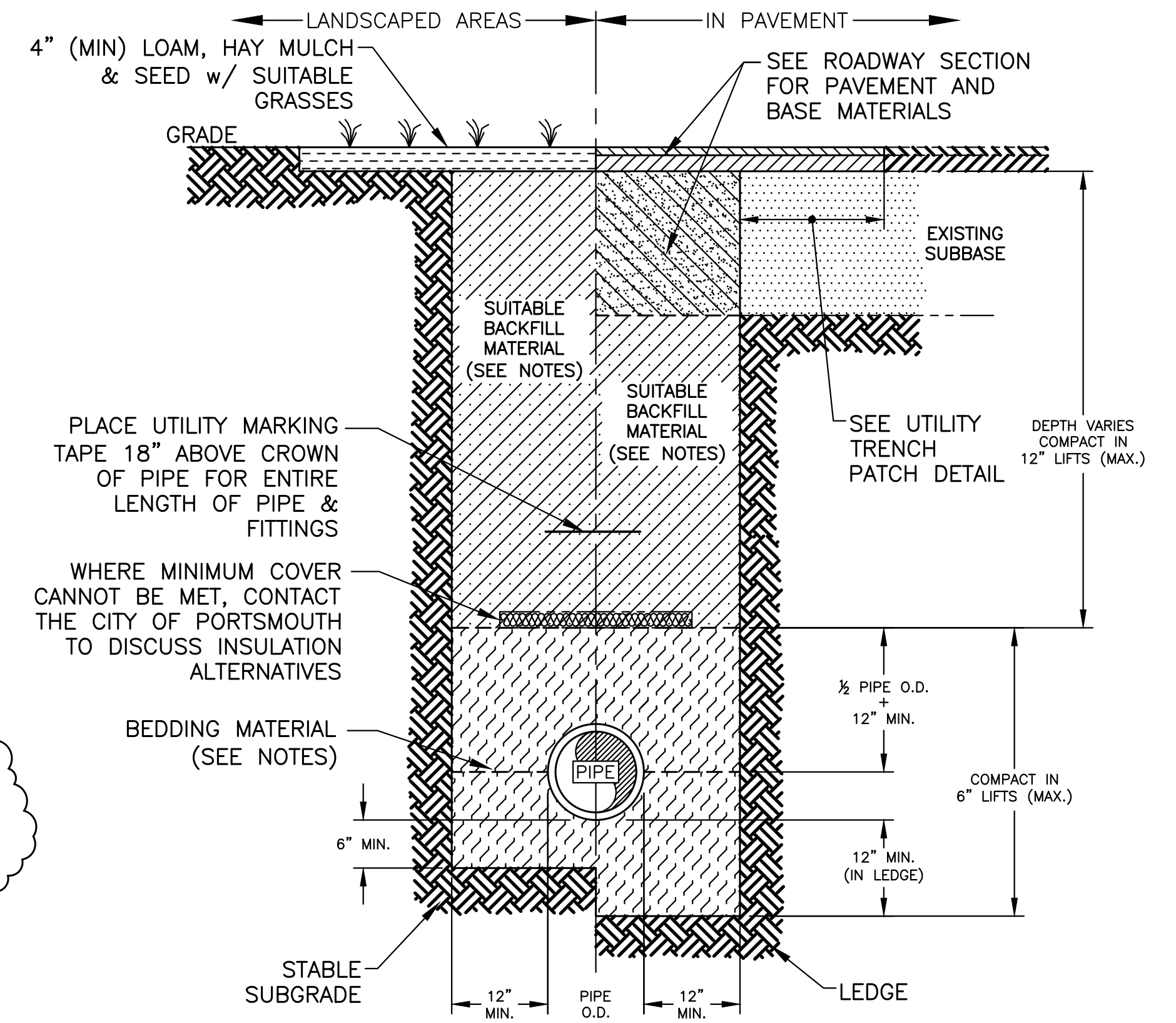
- NOTES:**
- TEMPORARY ASPHALT PLACED FOR UTILITY TRENCHES ARE SUBSIDIARY TO THE PIPE INSTALLATION PAY ITEM.
 - TEMPORARY PAVEMENT PATCH SHALL BE 3/4" BINDER (2" THK MIN.). PERMANENT PAVEMENT PATCH SHALL MATCH EXISTING THICKNESS, OR 3.5", WHICH EVER IS GREATER.
 - TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED REGULARLY. CONTRACTOR SHALL REPLACE TEMPORARY PAVEMENT PATCHES AT THE DISCRETION OF THE ENGINEER. TRENCHES MAY REMAIN GRAVEL DURING THE WORK WEEK. NO TRENCHES SHALL REMAIN GRAVEL OVER THE WEEKEND, TEMPORARY PAVEMENT IS REQUIRED.

PERMANENT TRENCH PATCH SECTION



UTILITY TRENCH PATCH
SCALE: N.T.S

- NOTES:**
- DRAIN AND SEWER PIPE SHALL HAVE CRUSHED STONE (NHDOT 304.4) BEDDING FOR FULL WIDTH OF TRENCH UP TO 12" ABOVE TOP OF PIPE. SAND SHALL NOT BE DIRECTLY PLACED ON CRUSHED STONE. IN THE EVENT FINELY GRADED BACKFILL OR SAND IS USED ABOVE STONE, GEOTEXTILE FABRIC SHALL BE PLACED TO SEPARATE.
 - WATER PIPE SHALL HAVE SAND (NHDOT 304.1) BEDDING FOR FULL WIDTH OF TRENCH UP TO 12" ABOVE TOP OF PIPE.
 - BEDDING, FABRIC, AND COVER MATERIAL FOR ALL PIPE IS SUBSIDIARY TO THE PIPE PAY ITEM.
 - SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIALS DEEMED TO BE UNACCEPTABLE BY THE ENGINEER.
 - DEPTH OF COVER SHALL BE:
WATER - 5' MIN. & 7' MAX. (<5' REQ. RIGID INS.)
SEWER - AS INDICATED ON PLANS (<6' REQ. RIGID INS.)
DRAIN - AS INDICATED ON PLANS (<3' REQ. RIGID INS.)
 - WATER MAIN SHALL BE POLY WRAPPED AND HAVE THREE BRASS WEDGES AT ALL NON MECHANICAL CONNECTIONS.
 - ALL PIPES GREATER THAN 12" DIA. WITH STONE BEDDING, BEDDING SHALL BE WRAPPED IN GEOTEXTILE FABRIC. GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL. FABRIC SHALL BE WRAPPED COMPLETELY AROUND STONE w/12" (MIN) OVERLAP AT SEAMS.
 - 2" RIGID FOAM INSULATION SHALL BE PLACED ON TOP OF BEDDING MATERIAL. BEDDING MATERIAL SHALL BE MADE SMOOTH TO ALLOW FOAM BOARD TO SIT WITHOUT VOIDS BENEATH. FOAM SHALL BE INSTALLED THE FULL WIDTH OF THE TRENCH, NOT TO EXCEED 4' WIDE.



UTILITY TRENCH
SCALE: N.T.S

NO.	REVISIONS	APPD	DATE
2	ISSUED FOR CONSTRUCTION	MRB	3/21/24
1	REV. PER NHDES & ADDENDUM	MRB	2/2/24
0	ISSUED FOR BID	MRB	12/9/23

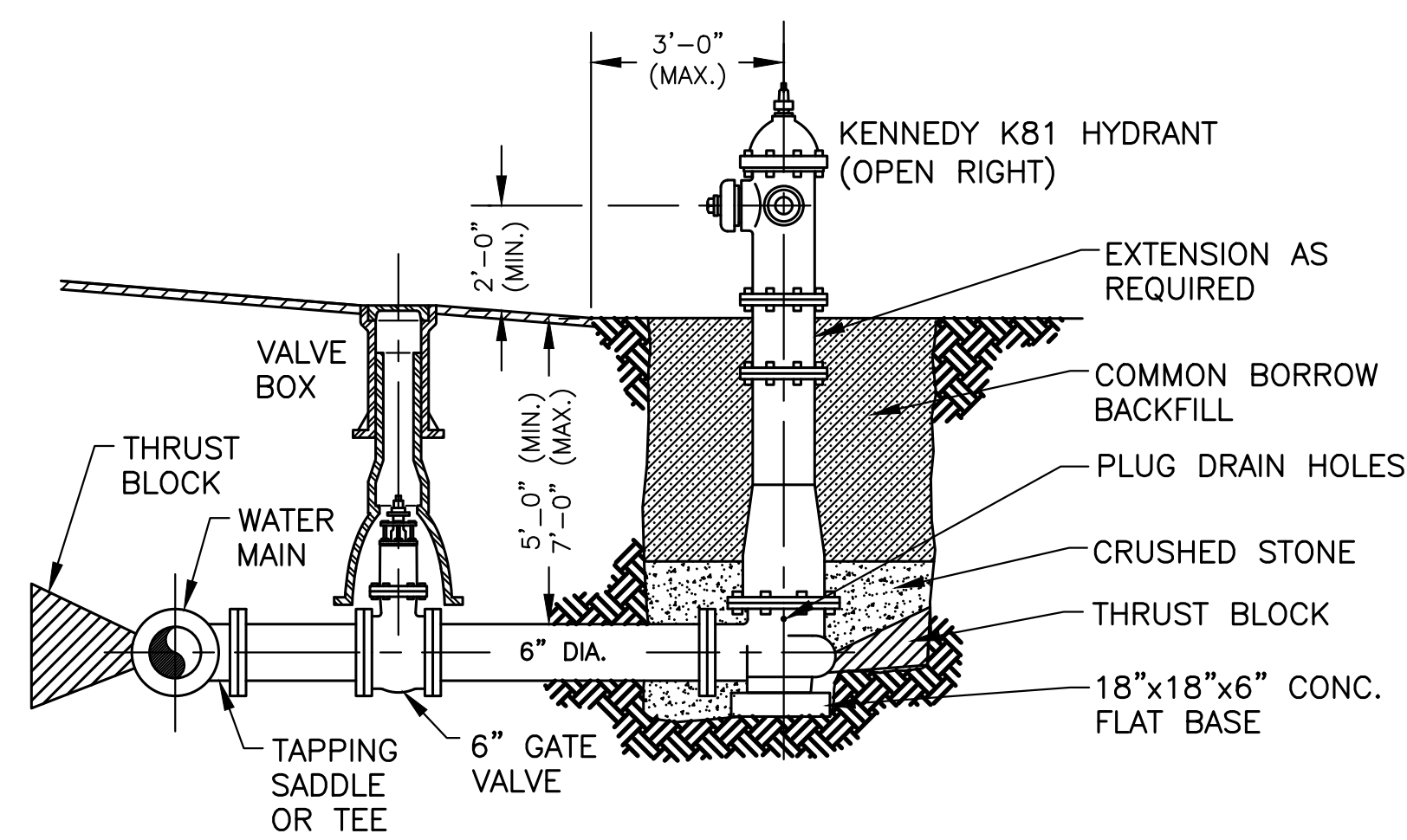
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

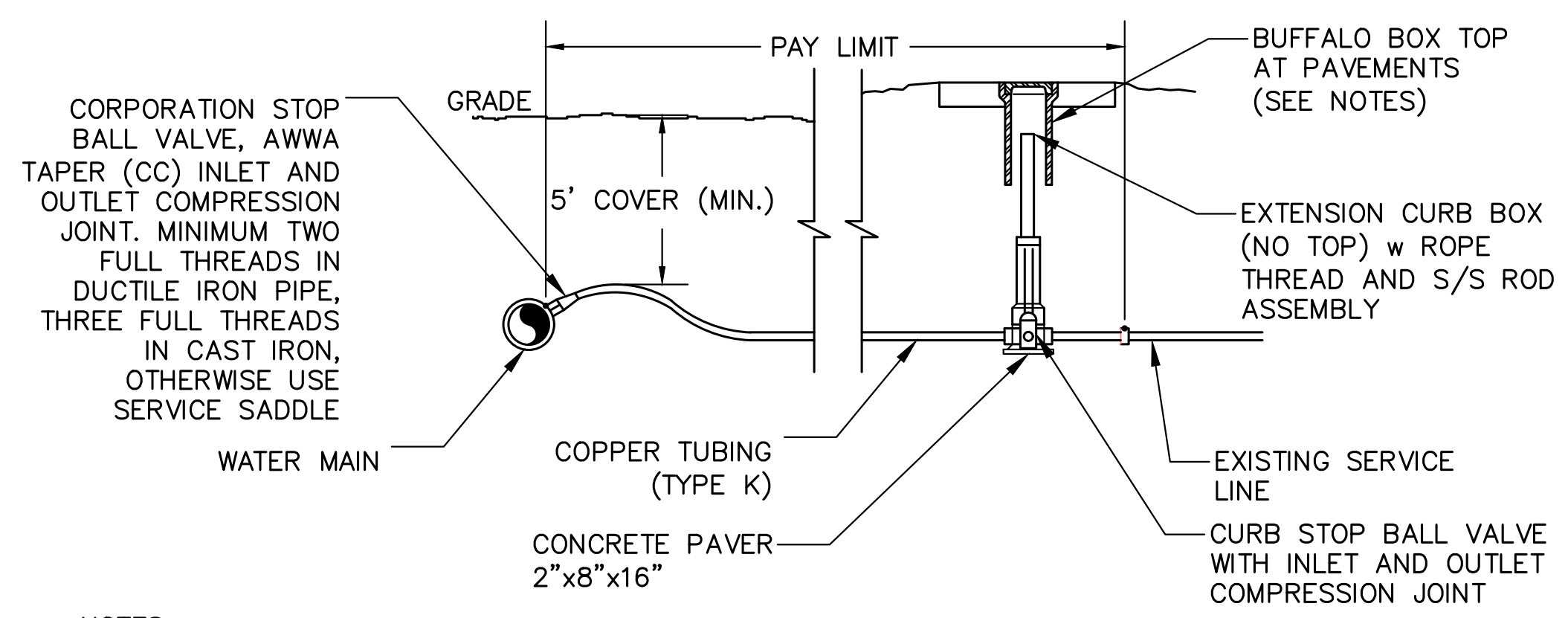
PROJECT: BARTLETT STREET AREA
RECONSTRUCTION
TITLE: DETAIL SHEET
GENERAL UTILITY

SHEET: C-604



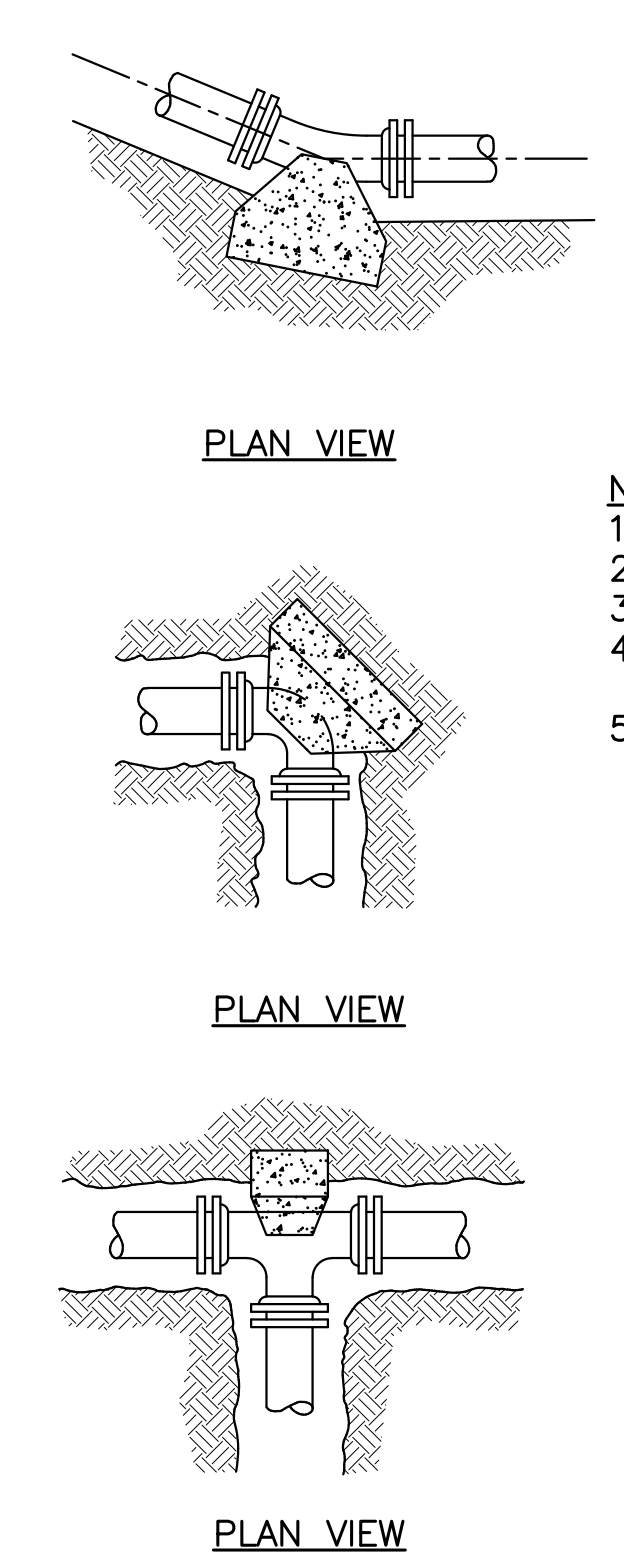
- NOTES:**
- HYDRANT TO BE KENNEDY TYPE K-81, RIGHT OPEN (NO EQUAL). COORDINATE WITH CITY OF PORTSMOUTH WATER AND FIRE DEPARTMENT.
 - HYDRANT SHALL BE PAINTED IN ACCORDANCE WITH CITY OF PORTSMOUTH STANDARDS.
 - AREA AROUND HYDRANT SHALL BE GRADED TO ALLOW SURFACE WATER TO DRAIN AWAY.
 - CONTRACTOR SHALL INSTALL AN INDICATOR ATTACHED TO THE HYDRANT IN ACCORDANCE TO CITY OF PORTSMOUTH STANDARDS.
 - HYDRANT LATERAL SHALL BE POLY WRAPPED FROM MAIN TO HYDRANT AT GROUND LEVEL, 6" (MIN.) OF SAND FOR BEDDING AND COVER, WARNING TAPE 18" ABOVE PIPE.
 - TWO BOLLARDS REQUIRED AT EACH HYDRANT LOCATION (SEE DETAIL). BOLLARDS TO BE CONSIDERED INCIDENTAL TO THE HYDRANT PAY ITEM.

FIRE HYDRANT
SCALE: N.T.S



- NOTES:**
- SERVICE SIZE SHALL BE EQUAL TO EXISTING, OR 1"Ø MINIMUM, WHICHEVER IS LARGER.
 - PROVIDE NEW LINE USING CONTINUOUS LENGTHS OF COPPER. NO COUPLING ALLOWED IN ROADWAY WITHOUT APPROVAL OF ENGINEER.
 - TAPS TO BE MADE AT APPROX. 2:00 AND 10:00.
 - PROVIDE FOR SERVICE LINE CONTRACTION AND EXPANSION BY INSTALLING "S" IN SERVICE LINE NEAR MAIN.
 - IF SERVICE IS INSTALLED WITH LESS THAN 5' COVER, INSULATE OVER LINE (INCIDENTAL).
 - REMOVE EXISTING CURB STOP AND REPLACE.
 - CONNECT CURB STOP TO EXISTING SERVICE LINE AT PROPERTY LINE OR AT LOCATION APPROVED BY THE ENGINEER (NO COUPLING WITHOUT APPROVAL OF ENGINEER) AFTER PRESSURE TESTING AND DISINFECTION.
 - CURB BOX SHALL BE SET IN THE SIDEWALK NEAR THE HOUSE SIDE UNLESS DIRECTED OTHERWISE.
 - 2" SERVICE CONNECTIONS SHALL USE A STAINLESS STEEL SERVICE SADDLE.
 - CONTRACTOR SHALL COORDINATE SERVICE INSTALLATIONS WITH HOMEOWNERS AND NOTIFY HOMEOWNERS IN THE EVENT SERVICE LINES TO THE BUILDINGS ARE GALVANIZED.
 - A BUFFALO BOX (TOP SECTION ONLY) SHALL BE PLACED OVER CURB BOX EXTENSION PIPE (NO HAYES TOP) AT ALL LOCATIONS WHERE WSO IS IN PAVEMENT (INCL. BRICK, CONCRETE, ASPHALT, ETC). HAYES COVER SHALL BE SET 4" BELOW GATE BOX COVER. OTHERWISE, HAYES BOX SHALL BE PLACED FLUSH WITH GRADE.

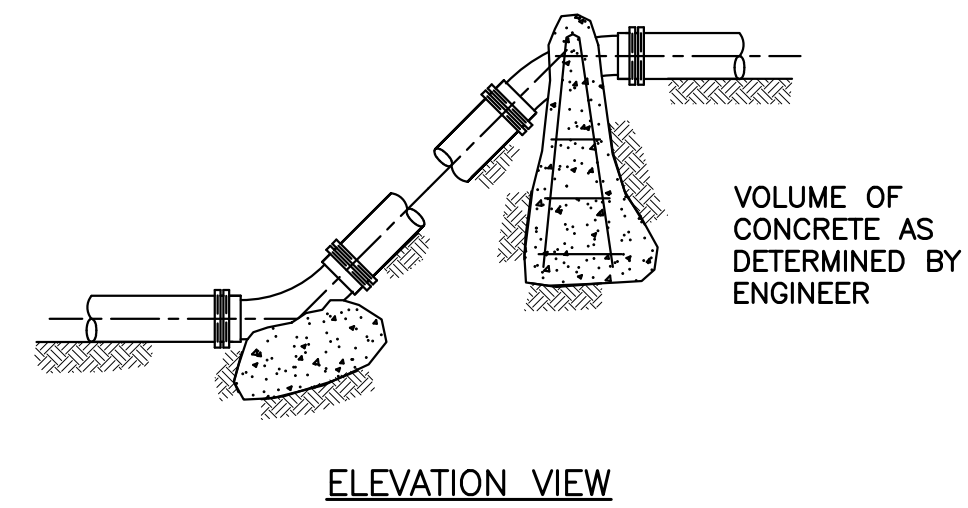
WATER SERVICE CONNECTION DETAIL
SCALE: N.T.S



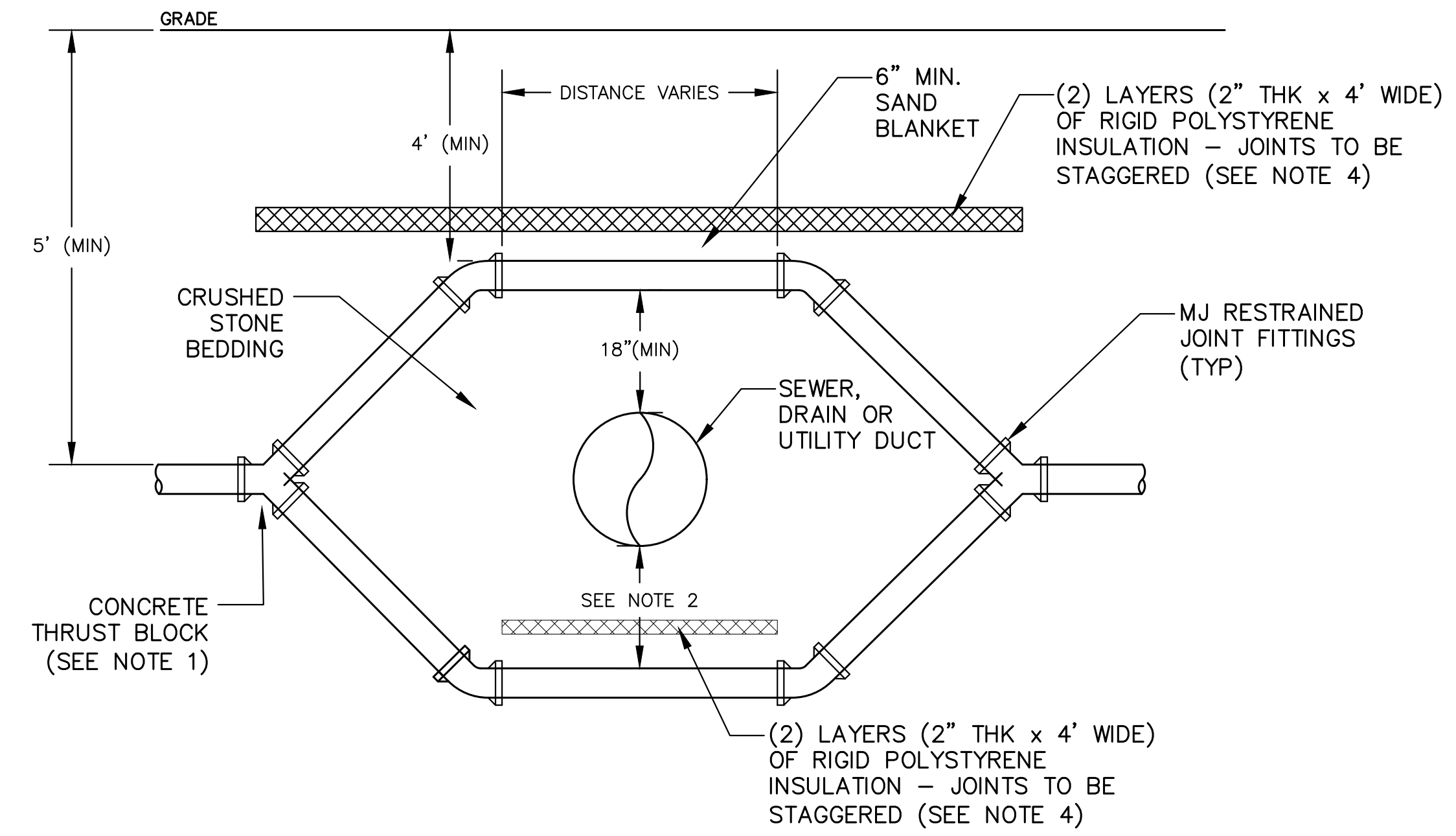
SQUARE FEET OF CONCRETE THRUST BLOCKING ON UNDISTURBED SOIL					
UP TO 150 P.S.I. WORKING PRESSURE					
PIPE SIZE	TEE OR TAP SLEEVE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	2.0	1.0	1.3	0.7	0.5
6"	2.0	2.0	1.5	0.8	0.6
8"	3.6	3.8	2.0	1.0	0.7
10"	5.6	5.6	3.3	1.5	1.0
12"	8.0	8.0	4.3	2.3	1.5

* - FOR 3" AND SMALLER PIPES

- NOTES:**
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL.
 - JOINTS SHALL NOT BE COVERED WITH CONCRETE
 - THRUST BLOCK SHALL EXTEND FULL LENGTH OF FITTING
 - PLACE MARINE GRADE PLYWOOD BOARD IN FRONT OF ALL PLUGS AND CAPS BEFORE POURING CONCRETE.
 - WHERE M.J. PIPE IS USED, M.J. PLUG WITH RETAINER GLAND MAY BE SUBSTITUTED FOR END BLOCKS WITH APPROVAL FROM ENGINEER.

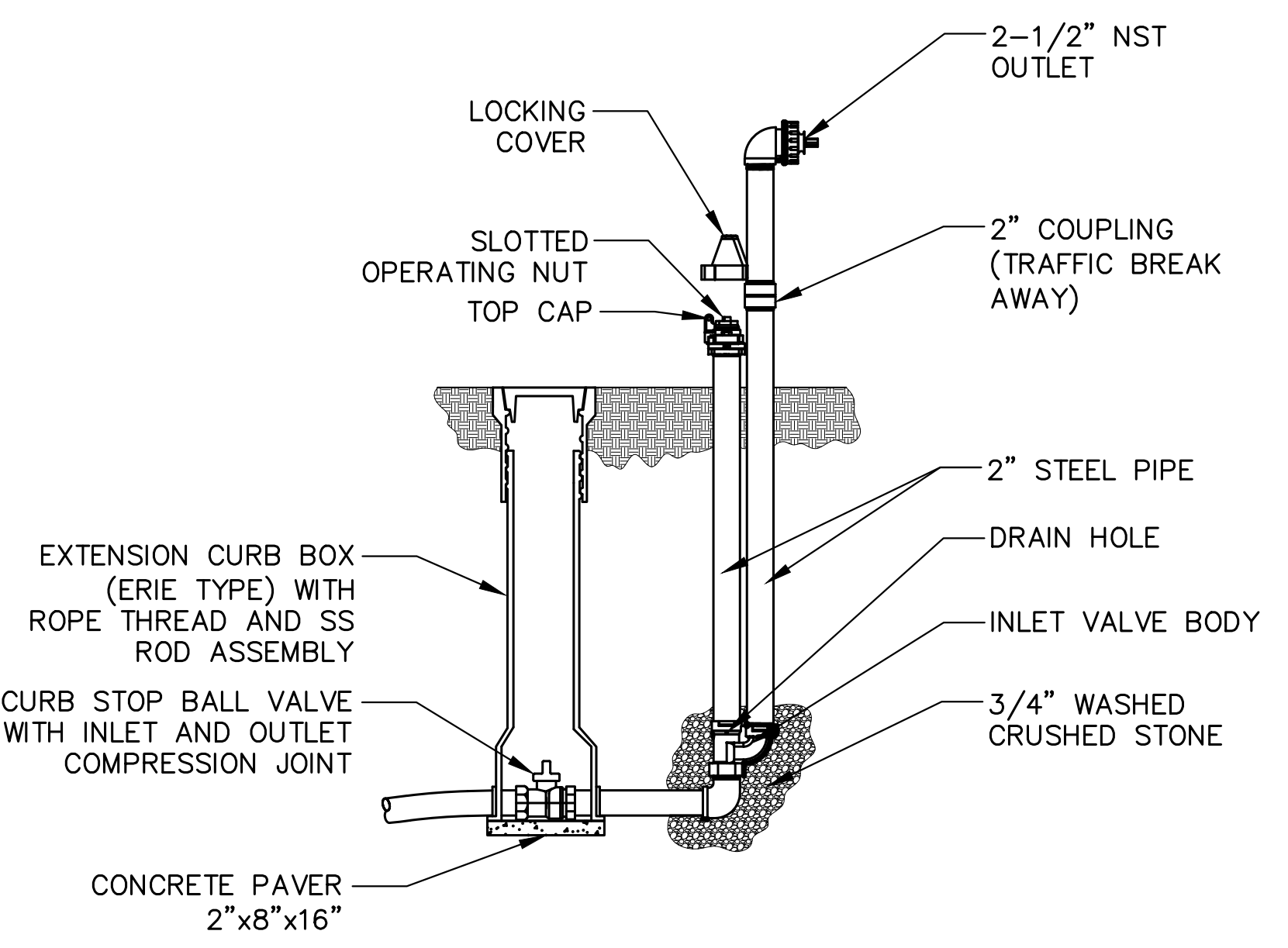


THRUST BLOCKS
SCALE: N.T.S



- NOTES:**
- INSTALL (4) FOUR 22.5-DEG MJ BENDS WITH RESTRAINED JOINT FITTINGS. 45-DEG BENDS MAY BE ALLOWED WITH CITY OF PORTSMOUTH WATER DEPARTMENT APPROVAL.
 - VERTICAL SEPARATION DEPTH BETWEEN WATER AND SEWER SHALL BE AT LEAST 18", WITH WATER ABOVE SEWER PER NHDES ENV-Wg 704.19. VERTICAL SEPARATION OF LESS THAN 18" (OR WATER BELOW SEWER) ALLOWED ONLY WITH WAIVER FROM NHDES. PROVIDE 12" SEPARATION FOR DRAIN OR OTHER UTILITY CROSSINGS.
 - CENTER CROSSING PIPE BETWEEN BELLS. SEWER PIPE JOINT SHALL BE A MINIMUM OF 6 FT HORIZONTALLY FROM THE WATER MAIN.
 - PROVIDE INSULATION IF DRAIN CROSSING OVER WATER MAIN, OR IF WATER MAIN HAS LESS THAN 5' OF COVER.

WATER MAIN CONFLICT - CROSSING DETAIL
SCALE: N.T.S

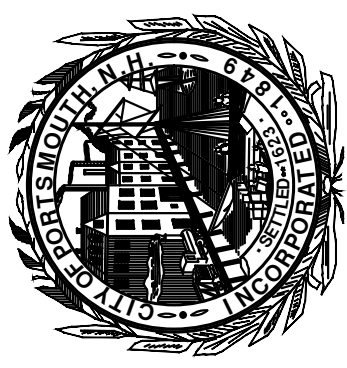


- NOTES:**
- MAINGUARD #77 KUPFERLE FOUNDRY OR APPROVED EQUAL.
 - PAINTED RED ABOVE GRADE.
 - MINIMUM OF 4 CUBIC FEET OF CRUSHED STONE FOR PROPER DRAINAGE.
 - PAY ITEM FOR FLUSHING HYDRANT INCLUDES CORPORATION AND CURB STOP IN ROADWAY.

FLUSHING / BLOW-OFF HYDRANT DETAIL
SCALE: N.T.S

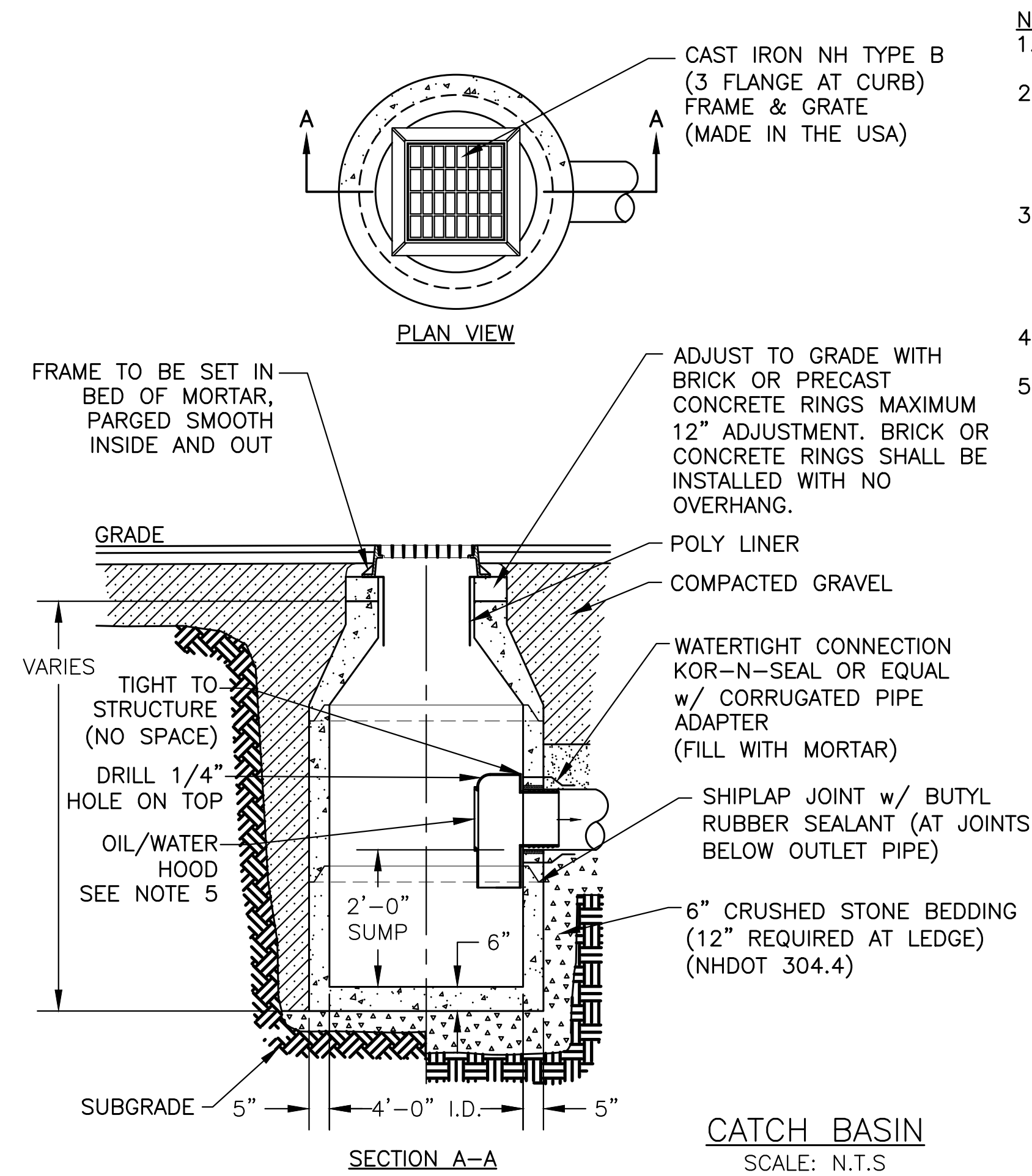
NO.	REVISIONS	DATE
2	ISSUED FOR CONSTRUCTION	3/21/24
0	ISSUED FOR BID	12/9/23

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



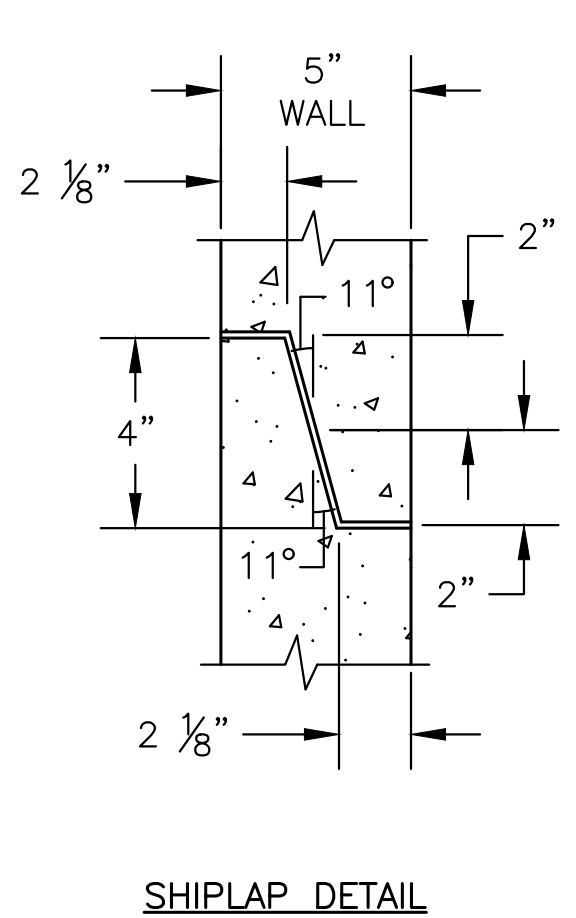
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: DETAIL SHEET WATER



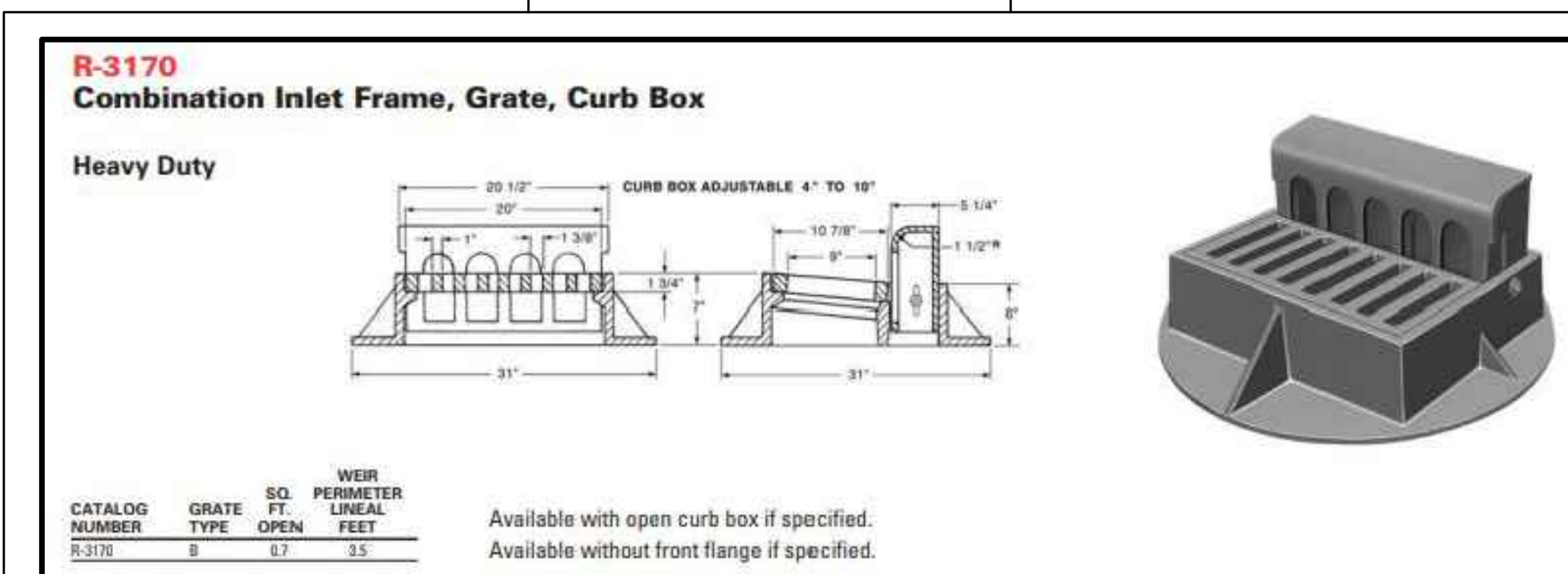
CATCH BASIN
SCALE: N.T.S

- NOTES:**
1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS & SHALL BE PLACED IN THE CENTER THIRD OF WALL.
 3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
 4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 5. ALL CATCHBASIN OUTLETS SHALL HAVE 'ELIMINATOR' OIL AND FLOATING DEBRIS TRAP BY KLEANSTREAM (NO EQUAL). FOR EXIT ONLY CBs, NOT FOR PASS THROUGH CBs.

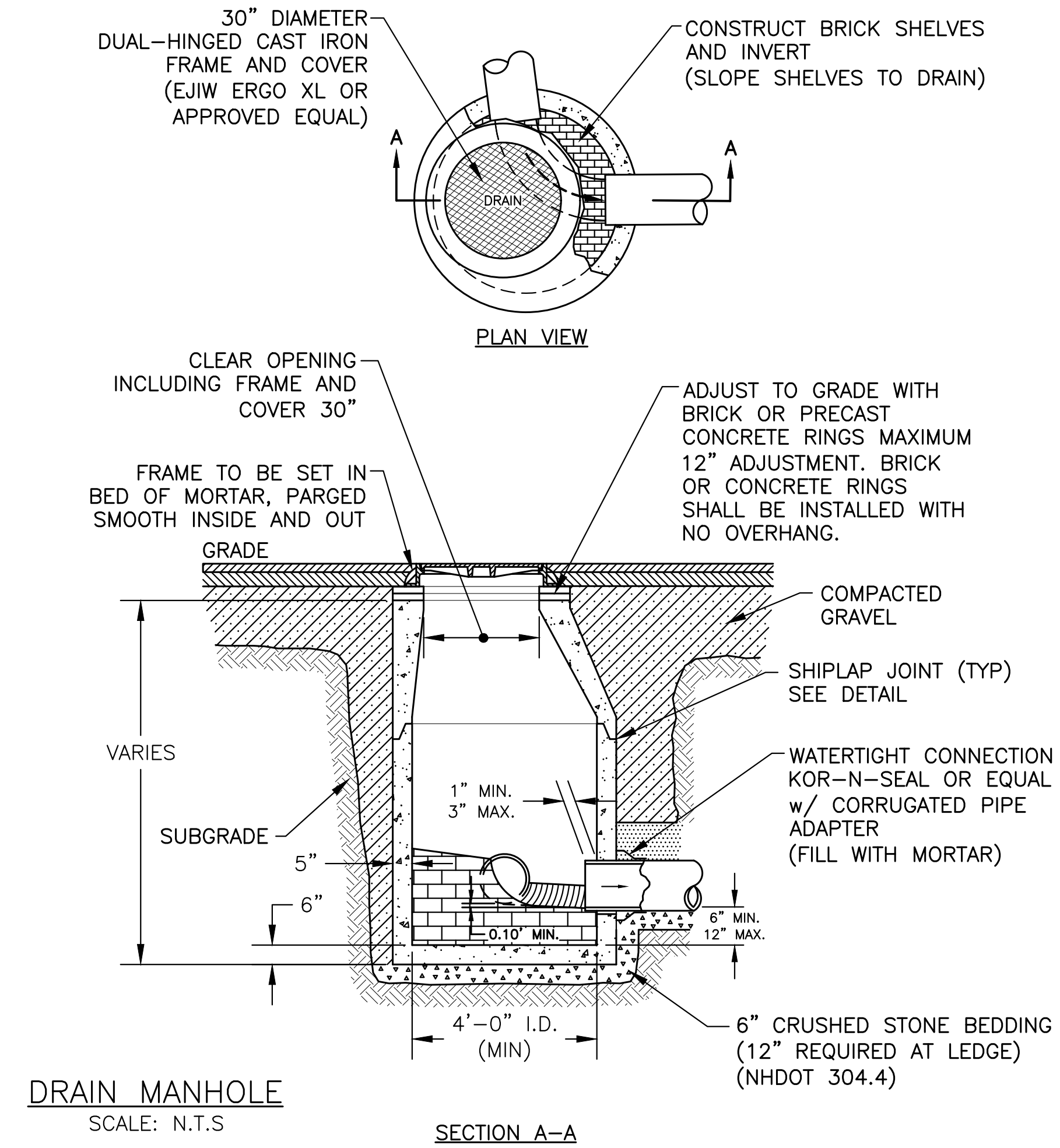


SHIPLAP DETAIL

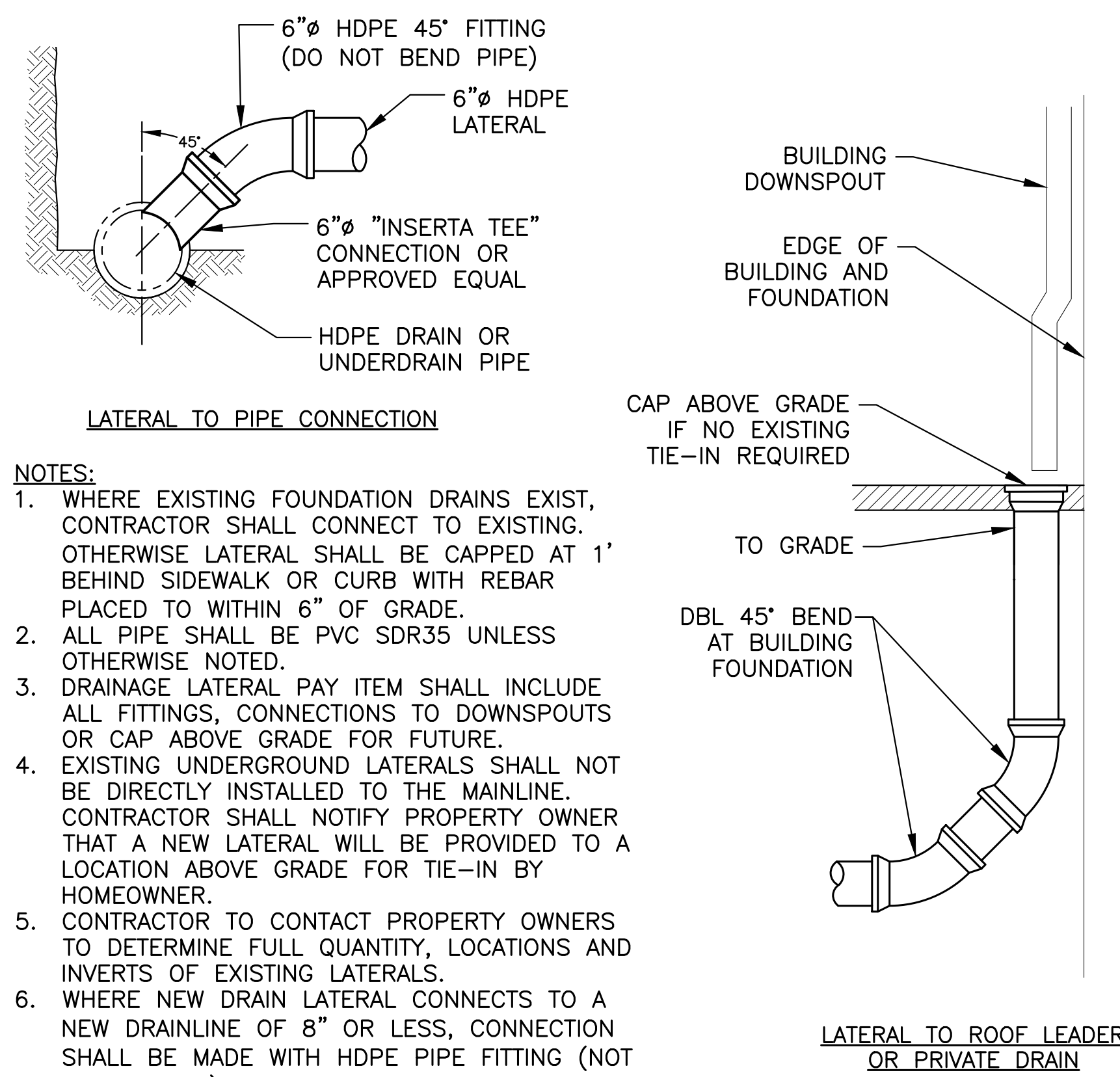
- NOTES:**
1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
 4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 5. LADDER RUNGS SHALL BE OMITTED.



INLET/GRATE COMBO DETAIL
SCALE: N.T.S



DRAIN MANHOLE
SCALE: N.T.S

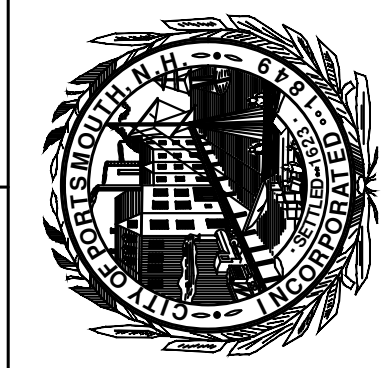


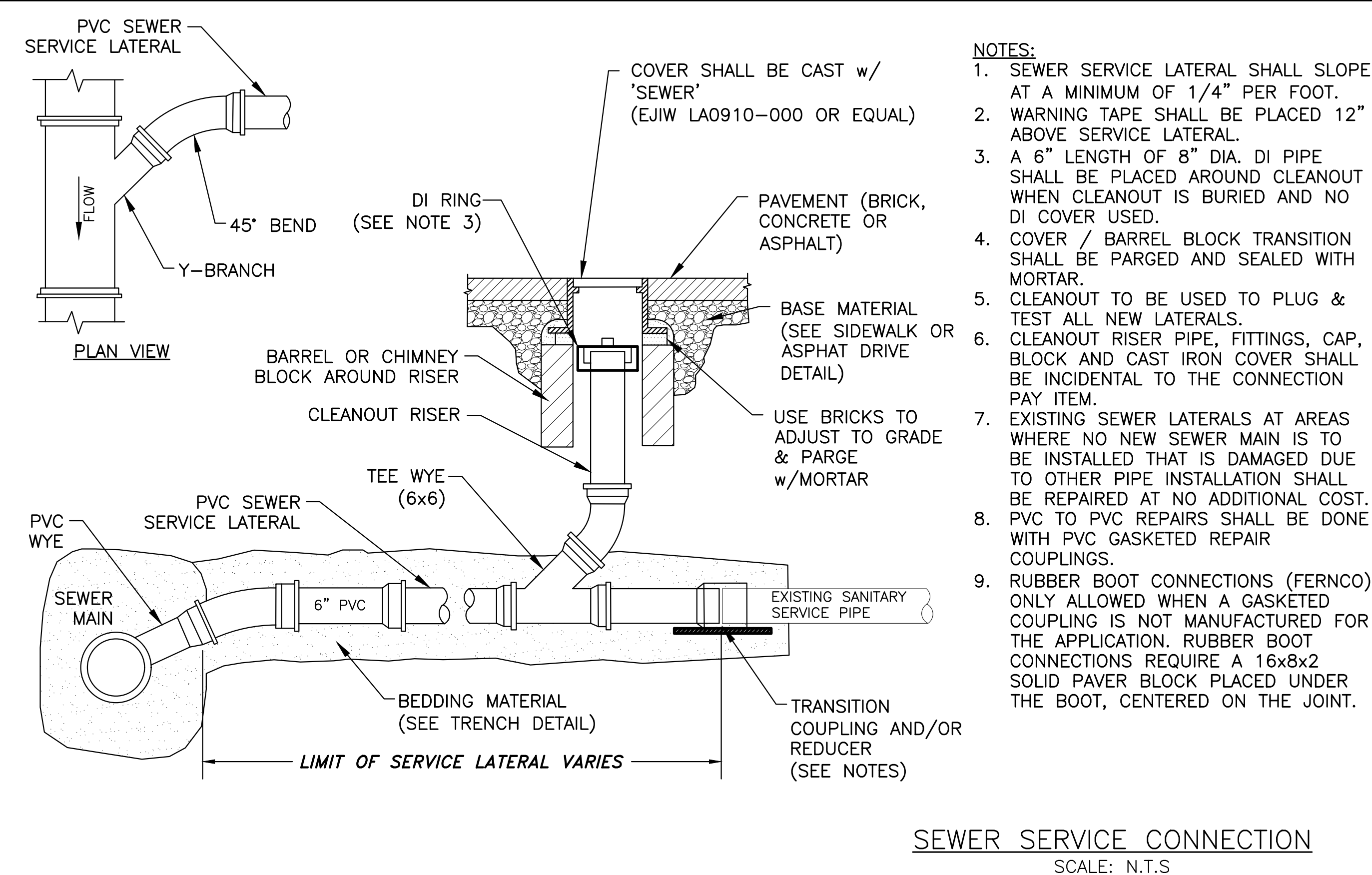
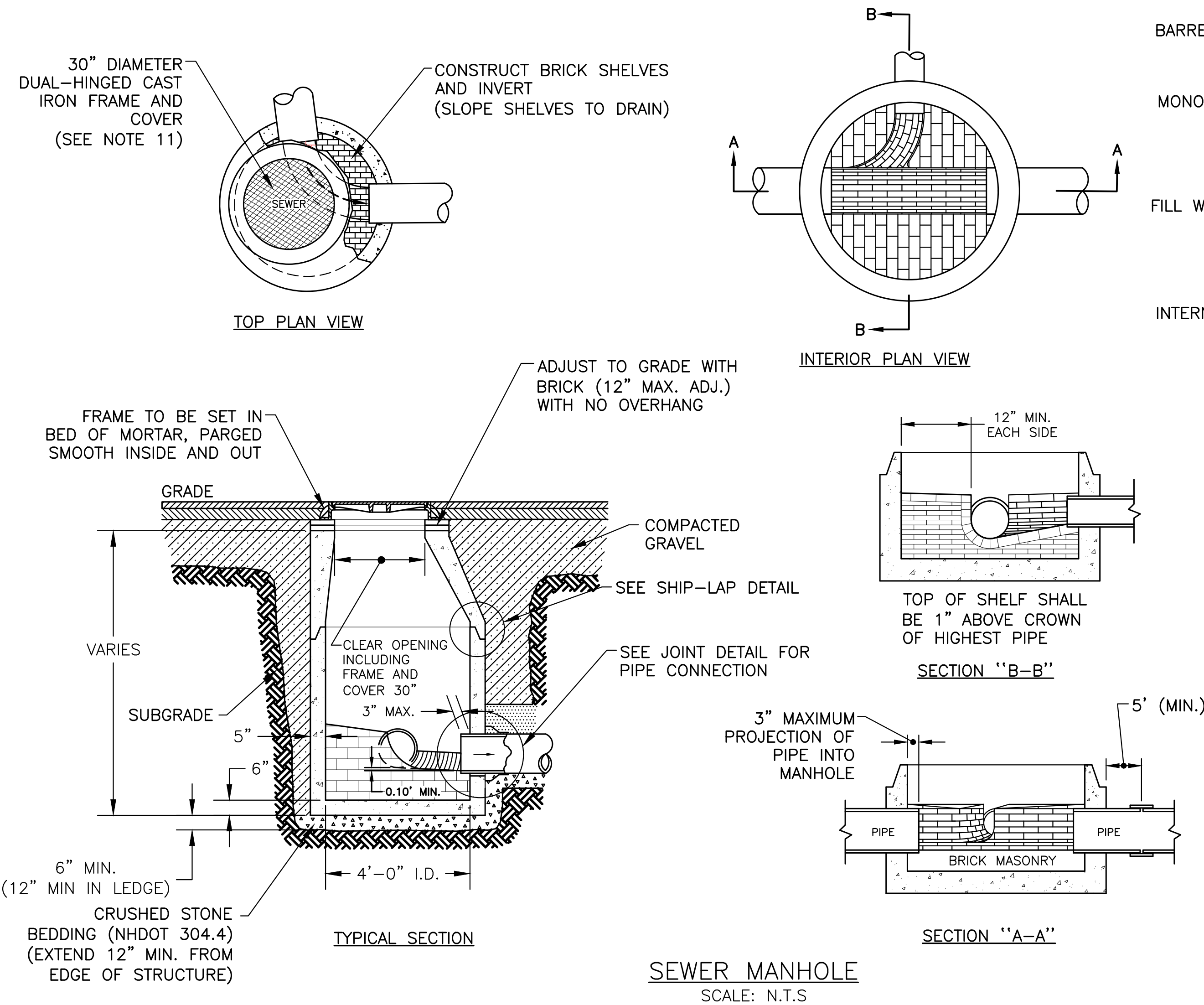
DRAINAGE LATERAL DETAIL
SCALE: N.T.S

- NOTES:**
1. WHERE EXISTING FOUNDATION DRAINS EXIST, CONTRACTOR SHALL CONNECT TO EXISTING. OTHERWISE LATERAL SHALL BE CAPPED AT 1' BEHIND SIDEWALK OR CURB WITH REBAR PLACED TO WITHIN 6" OF GRADE.
 2. ALL PIPE SHALL BE PVC SDR35 UNLESS OTHERWISE NOTED.
 3. DRAINAGE LATERAL PAY ITEM SHALL INCLUDE ALL FITTINGS, CONNECTIONS TO DOWNSPOUTS OR CAP ABOVE GRADE FOR FUTURE.
 4. EXISTING UNDERGROUND LATERALS SHALL NOT BE DIRECTLY INSTALLED TO THE MAINLINE. CONTRACTOR SHALL NOTIFY PROPERTY OWNER THAT A NEW LATERAL WILL BE PROVIDED TO A LOCATION ABOVE GRADE FOR TIE-IN BY HOMEOWNER.
 5. CONTRACTOR TO CONTACT PROPERTY OWNERS TO DETERMINE FULL QUANTITY, LOCATIONS AND INVERTS OF EXISTING LATERALS.
 6. WHERE NEW DRAIN LATERAL CONNECTS TO A NEW DRAINLINE OF 8" OR LESS, CONNECTION SHALL BE MADE WITH HDPE PIPE FITTING (NOT INSERTA TEE).

PROJECT:	BARTLETT STREET AREA RECONSTRUCTION	ISSUED FOR CONSTRUCTION	MRB	3/21/24
TITLE:	DETAIL SHEET DRAINAGE	ISSUED FOR BID	MRB	12/9/23
SHEET:	C-606	REVISIONS	APPD	DATE
DATE:	JANUARY 2023	NO.	0	
SCALE:	AS SHOWN			
PROJ. NO.:	7238			
APVD BY:	MRB			

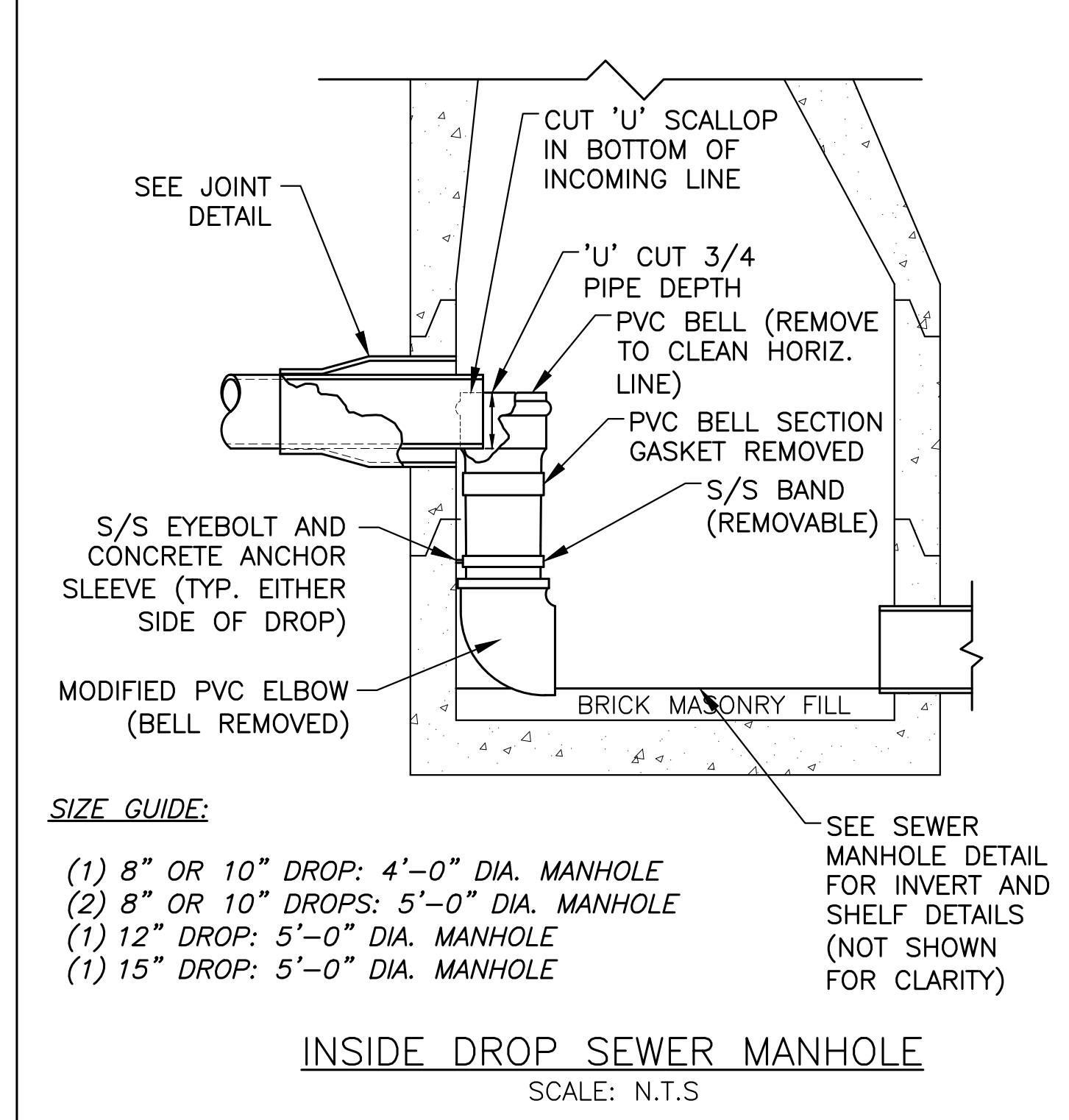
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1530





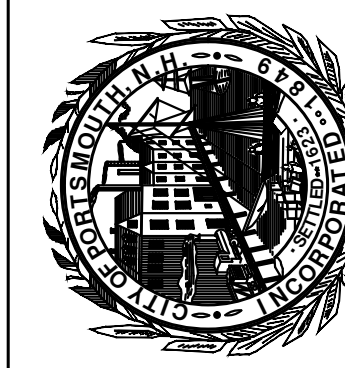
MANHOLE NOTES:

- IT IS THE INTENTION THAT THE MANHOLE, INCLUDING ALL COMPONENT PARTS, HAVE ADEQUATE SPACE, STRENGTH, AND LEAKPROOF QUALITIES CONSIDERED NECESSARY BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NHDES) FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS, WITH STEEL REINFORCEMENT. IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE, AND TO PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
- BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE (4,000psi AT 28-DAY).
- CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
- THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
- BITUMINOUS WATERPROOF COATING SHALL BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
- HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC (KENT SEAL OR EQUAL) OR MASTIC SEALANT.
- EACH CASTING TO HAVE LIFTING HOLES CAST IN. LIFTING HOLES SHALL BE PATCHED PRIOR TO BACKFILL.
- PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
- LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST.
- INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO AN ELEVATION OF 1" ABOVE THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY.
- FRAMES AND COVERS: MANHOLE FRAMES AND COVERS SHALL BE PURCHASED THROUGH THE CITY OF PORTSMOUTH PUBLIC WORKS.
- BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33. STONE SIZE NO. 67.
 - 100% PASSING 1 INCH SCREEN
 - 0-10% PASSING #4 SIEVE
 - 90-100% PASSING 3/4 INCH SCREEN
 - 0- 5% PASSING #8 SIEVE
 - 20- 55% PASSING 3/8 INCH SCREEN
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.
- SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H-20 LOADS MAY BE USED.
- FLEXIBLE JOINT: A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:
 - RCP AND CI PIPE - ALL SIZES - 48"
 - AC AND VC PIPE - UP THROUGH 12" DIA. - 18"
 - AC AND VC PIPE - LARGER THAN 12" DIA. - 36"
 - DI PIPE - NONE REQUIRED
 - PVC (ASTM 3034) - UP THROUGH 15" DIA. - NONE REQUIRED
 - PVC (ASTM F679) - LARGER THAN 15" DIA. - 48"/60"
 - PVC (ASTM F789) - ALL SIZES - 48"/60"
 - ABS (ASTM D2680) - ALL SIZES - SAME AS VC ABOVE.
- MANHOLE CASTINGS SHALL COMPLY WITH ASTM A48.
- BRICK MASONRY SHALL COMPLY WITH ASTM C32.
- MORTAR SHALL CONFORM WITH REQUIREMENTS SPECIFIED IN NH DES ENV-WQ 704.13(C).
- SPECIFICATIONS: ADDITIONAL CONSTRUCTION SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. THESE STANDARD MANHOLE DRAWINGS ARE NOT COMPLETE WITHOUT THESE SPECIFICATIONS.
- CITY OF PORTSMOUTH - STEPS SHALL NOT BE PROVIDED.
- CITY OF PORTSMOUTH - SMH COVERS SHALL HAVE THE CITY LOGO AND BE PURCHASED THROUGH THE CITY AT COST. COSTS ASSOCIATED WITH FRAME AND COVER IS CONSIDERED SUBSIDIARY TO THE MANHOLE PAY ITEM.
- SHALL COMPLY WITH CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARDS.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SEWER STRUCTURES THROUGHOUT THE PROJECT. AT THE CITY REQUEST, THE CONTRACTOR SHALL PROVIDE ADEQUATE ACCESS TO ANY STRUCTURE WHERE THEIR WORK IMPEDES ACCESS. THIS MAY INCLUDE EXCAVATING FOR BURIED STRUCTURES.



PROJECT:	BARTLETT STREET AREA RECONSTRUCTION	DATE:	JANUARY 2023
TITLE:	DETAIL SHEET SEWER	SCALE:	AS SHOWN
SHEET:	C-607	PROJ. NO.:	7238
		APVD BY:	MRB
		ISSUED FOR CONSTRUCTION	MRB 3/21/24
		ISSUED FOR BID	MRB 12/9/23
		NO.	0
		REVISIONS	APPD
		DATE	

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



CITY OF PORTSMOUTH TOPSOIL SPECIFICATION

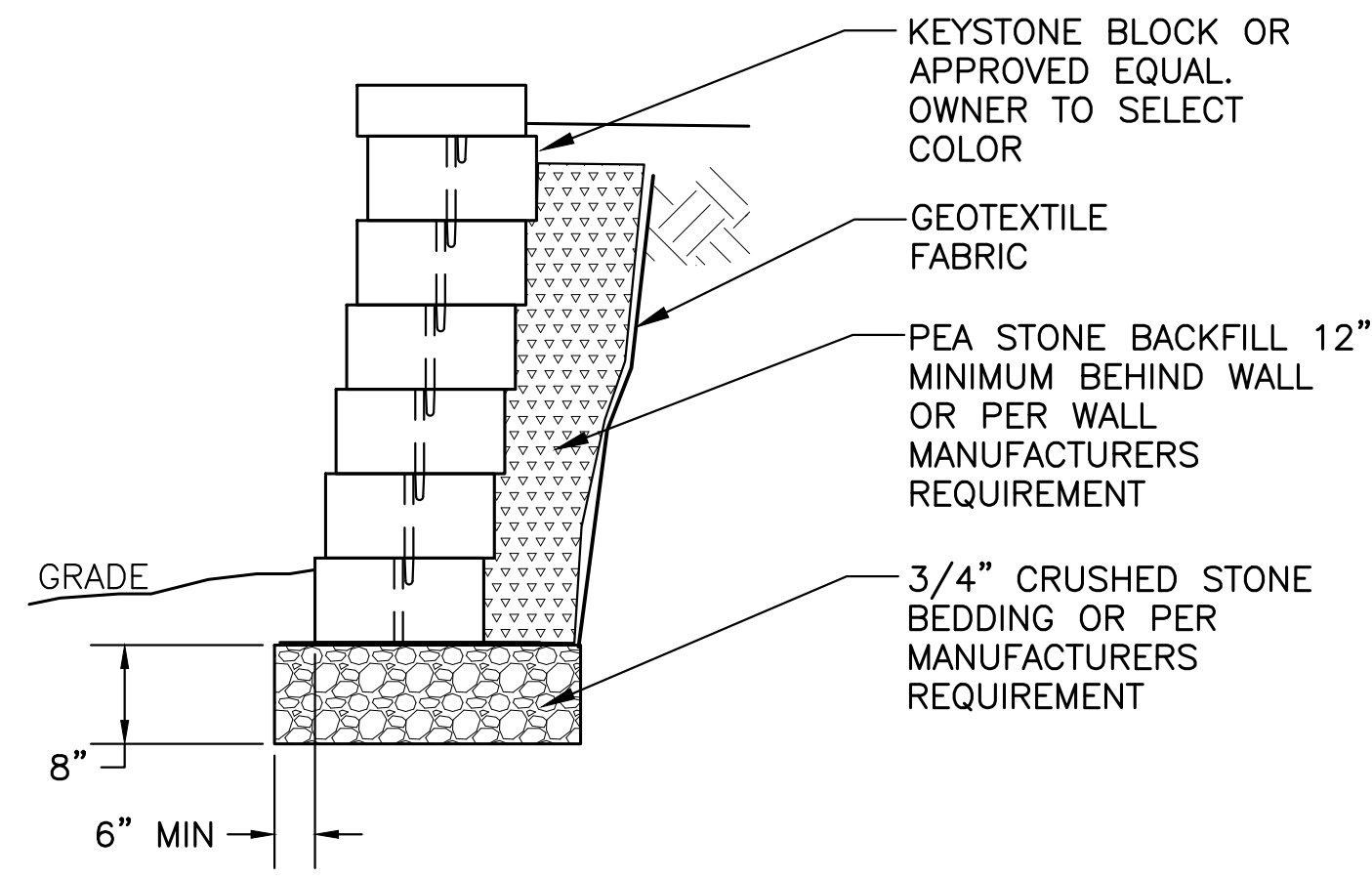
THE CITY OF PORTSMOUTH REQUIRES A MIXTURE OF 3 PARTS LOAM AND 1 PART COMPOST FOR ALL TOPSOIL AREAS. THIS INCLUDES , BUT NOT LIMITED TO, PLANTING BEDS, TURF AREAS, AND GRASS STRIPS BETWEEN ROADWAY AND SIDEWALK.

LOAM:
SHALL CONSIST OF 40% SAND, 40% SILT, AND 20% CLAY.

- COMPOST:**
THE COMPOST DISTRIBUTOR SHALL PROVIDE A SOIL TEST FOR THE COMPOST BEING USED.
AN ITEM, MATERIAL OR FINISHED ARTICLE SOLD IN COMMERCE THAT MEETS ALL THE FOLLOWING CRITERIA:
- IS THE PRODUCT MANUFACTURED THROUGH THE CONTROLLED AEROBIC, BIOLOGICAL DECOMPOSITION OF BIODEGRADABLE MATERIALS.
 - HAS UNDERGONE MESOPHILIC AND THERMOPHILIC TEMPERATURES, WHICH SIGNIFICANTLY REDUCES THE VIABILITY OF PATHOGENS AND WEED SEEDS, AND STABILIZES THE CARBON SUCH THAT IT IS BENEFICIAL TO PLANT GROWTH.
 - IS TYPICALLY USED AS A SOIL AMENDMENT, BUT MAY ALSO CONTRIBUTE PLANT NUTRIENTS.
 - BEARS LITTLE PHYSICAL RESEMBLANCE TO THE RAW FROM WHICH IT ORIGINATED.
 - IS AN ORGANIC MATTER SOURCE THAT HAS THE UNIQUE ABILITY TO IMPROVE THE CHEMICAL, PHYSICAL, AND BIOLOGICAL CHARACTERISTICS OF SOILS OR GROWING MEDIA.
 - THE SANITIZATION THROUGH THE GENERATION OF THERMOPHILIC HEAT SHALL MEET THE STANDARDS OF THE PROCESSES TO FURTHER REDUCE PATHOGENS (PFRP), AS DEFINED BY THE CODE OF FEDERAL REGULATIONS TITLE 40, PART 503, APPENDIX B, SECTION B.

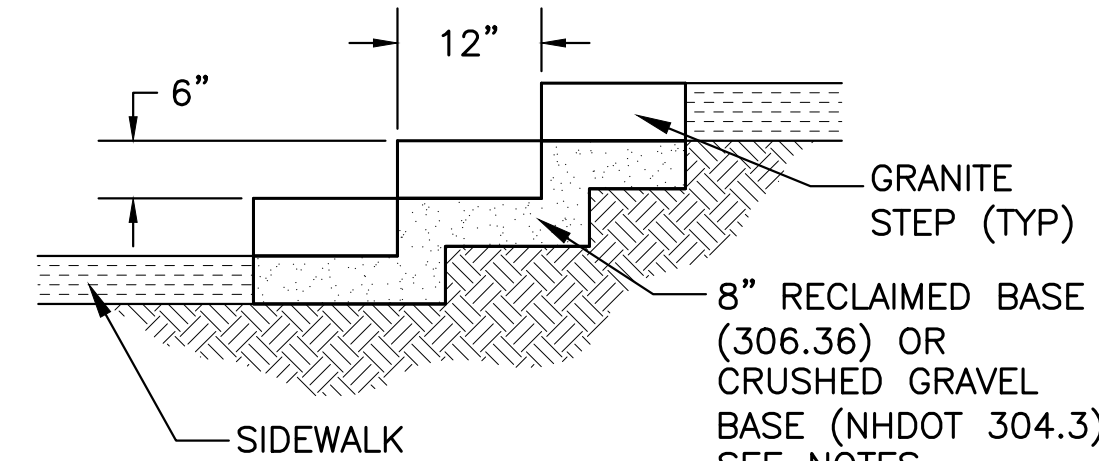
- THE CITY REQUIRES A CHEMICAL AND COMPOSITION TEST FOR THIS MIXTURE PRIOR TO USING.
- SOIL MIXTURE SHALL BE APPLIED AT A MINIMUM DEPTH OF 6".

LOAM SPECIFICATION
SCALE: N.T.S



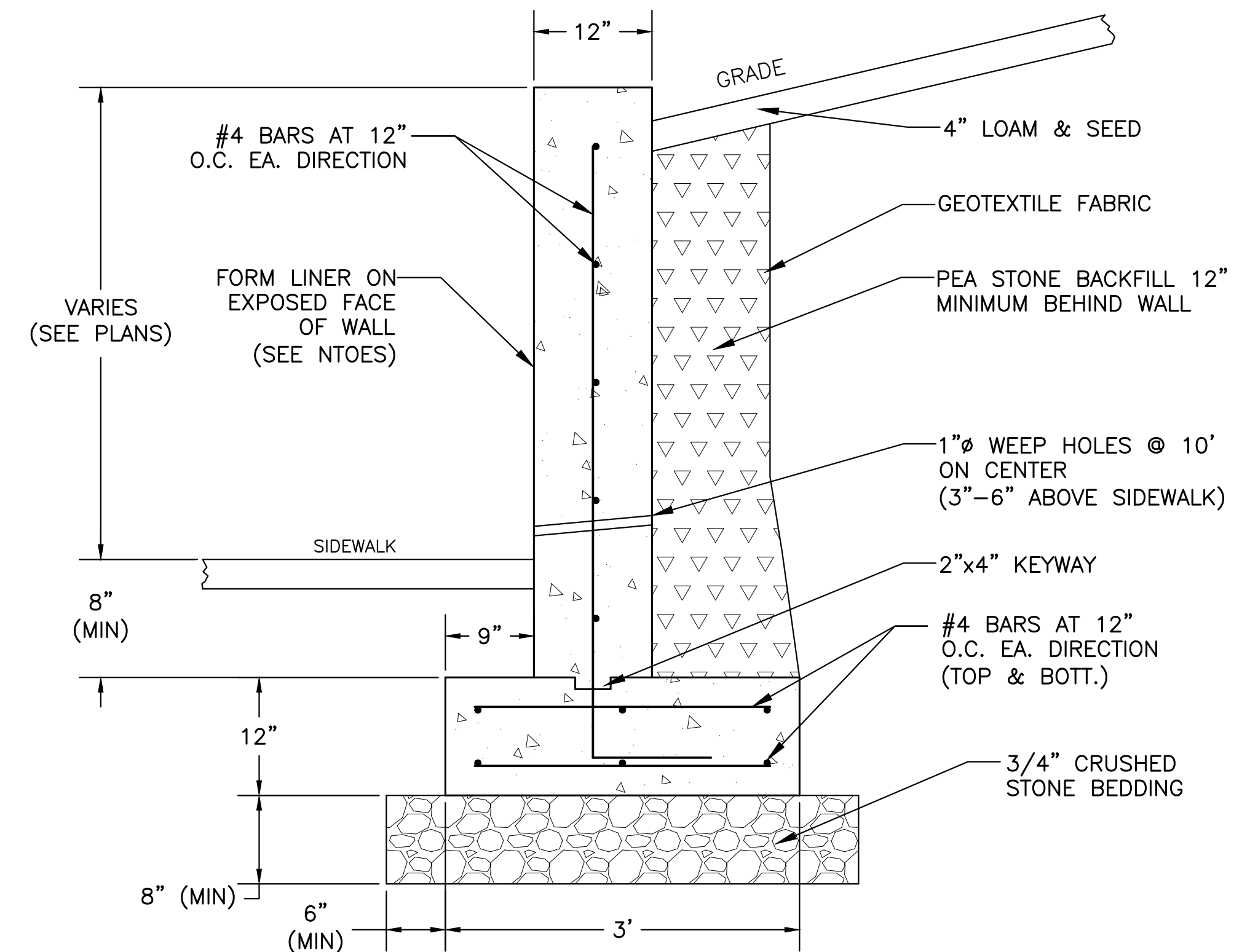
SEGMENTED BLOCK WALL
SCALE: N.T.S

- NOTES:**
- INTENT IS TO USE A MANUFACTURED PROPRIETARY WALL SYSTEM. CONTRACTOR SHALL SUPPLY A WALL DESIGN BY THE MANUFACTURER PRIOR TO CONSTRUCTION
 - GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.



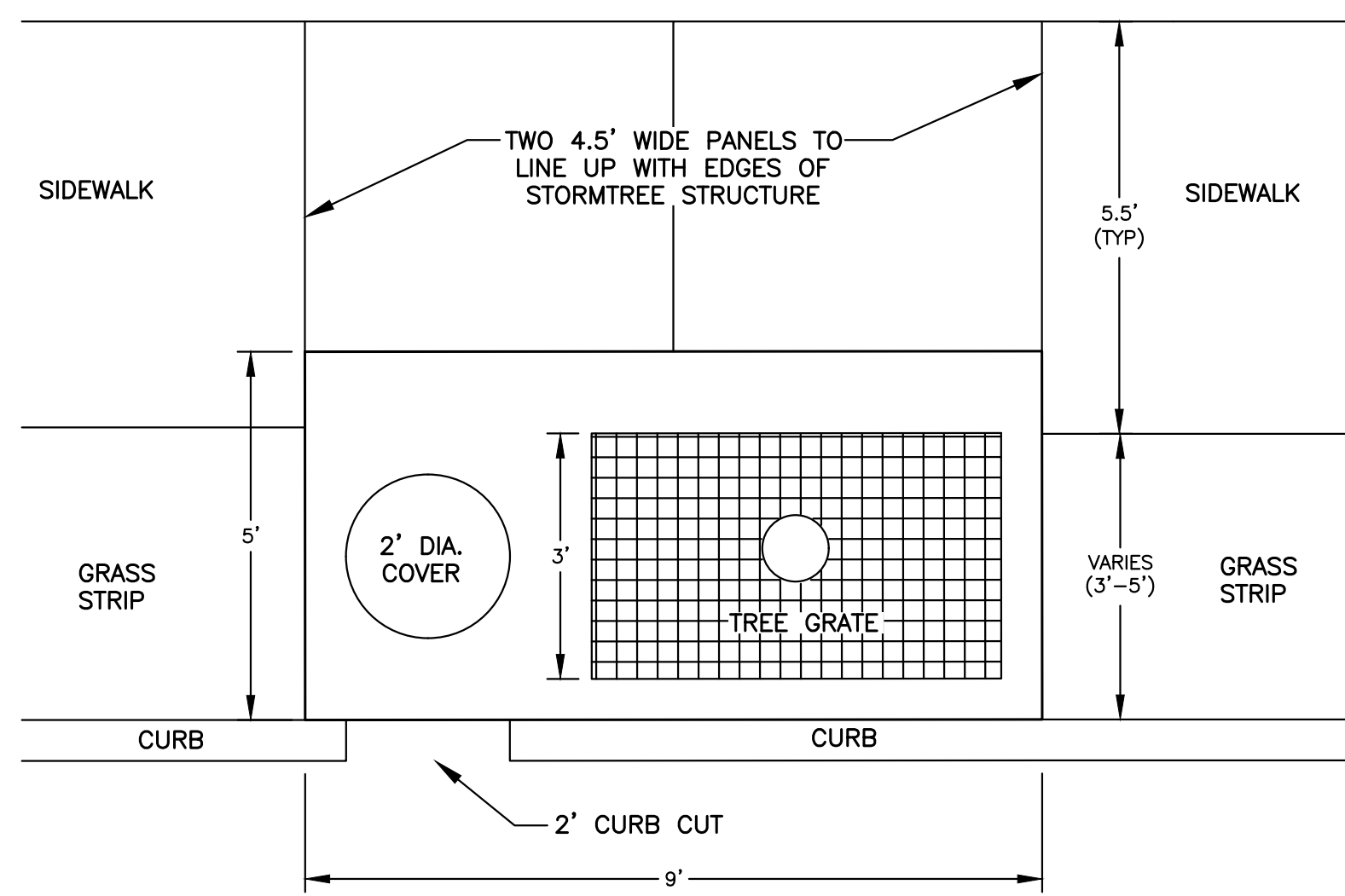
GRANITE STEPS
SCALE: N.T.S

- NOTES:**
- GRANITE STEPS SHALL BE EITHER RESETTING OF EXISTING OR NEW STEPS MANUFACTURED BY SWENSON GRANITE WORKS, OR APPROVED EQUAL.
 - STEPS SHALL BE INSTALLED FLUSH TO ADJACENT SIDEWALKS.
 - STEPS SHALL BE PITCHED 1.0% TOWARDS THE FRONT OF EACH STEP FOR DRAINAGE. CROSS SLOPE OF STEPS SHALL BE FLAT (1.0% MAX) OR MATCH SIDEWALK CROSS SLOPE. CONTRACTOR IS RESPONSIBILITY TO VERIFY SLOPES WITH A SMART LEVEL.
 - BASE MATERIALS SHALL BE COMPACTED TO 95% PROCTOR.
 - CONTRACTOR TO VERIFY WIDTH OF STEPS.
 - NEW GRANITE SHALL BE FROM THE SAME LOT OF GRANITE. VARIANCES IN COLOR AND TYPE WILL NOT BE ACCEPTED.
 - RECLAIMED BASE MATERIAL SHALL BE USED UNLESS DIRECTED BY THE ENGINEER, OR IF QUANTITIES HAVE BEEN DEPLETED.

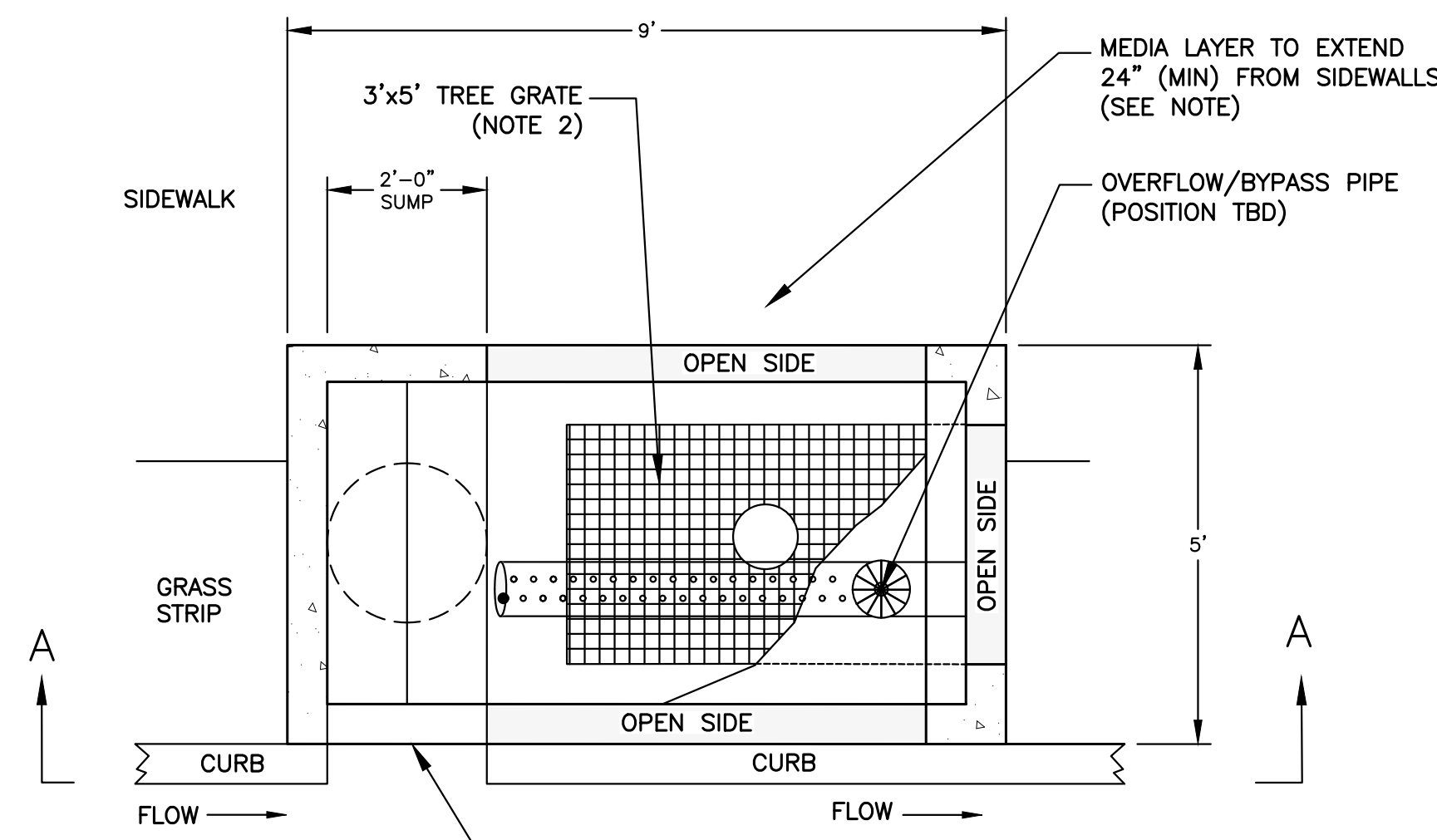


- NOTES:**
- SUB-GRADE SHALL BE COMPACTED PRIOR TO PLACEMENT OF GRAVEL BASE. GRAVEL BASE SHALL BE COMPACTED TO 95% PROCTOR.
 - CONCRETE SHALL HAVE A STRENGTH OF 4,000psi CLASS AA, AIR ENTRAINMENT (5%-7%) WITH A SLUMP OF 4"-6".
 - CONTRACTOR SHALL PROVIDE FORM LINER OPTIONS TO THE CITY FOR REVIEW AND APPROVAL.

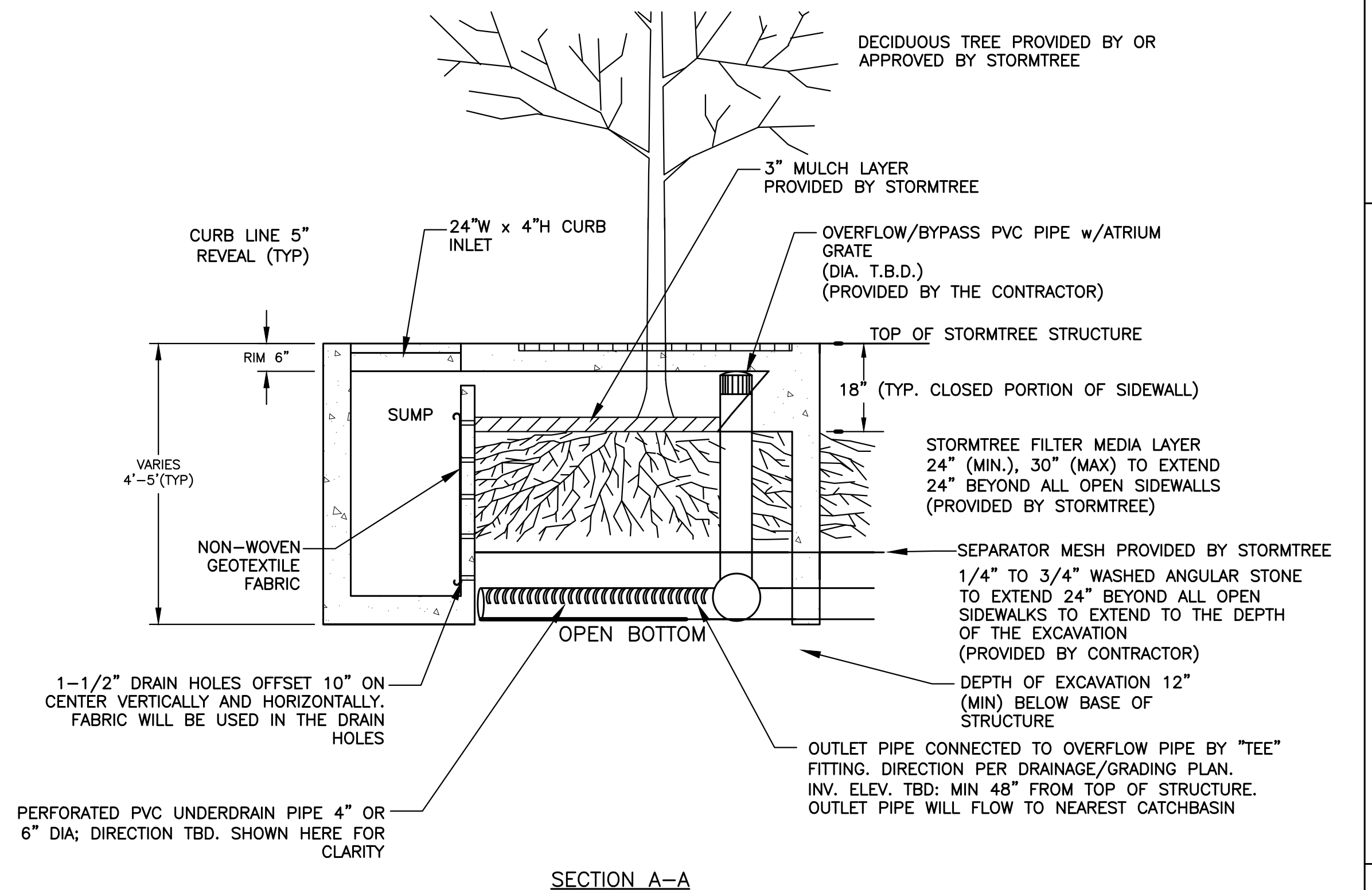
FORM LINED CONCRETE RETAINING WALL
SCALE: N.T.S



STORMTREE SURFACE VIEW



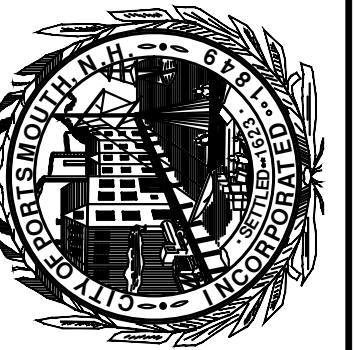
TREE BOX FILTER DETAIL
SCALE: N.T.S



SECTION A-A

DATE	3/21/24	MRB	MRB	MRB	MRB
ISSUED FOR CONSTRUCTION	2	0	0	0	0
ISSUED FOR BID					
NO.					
REVISIONS					
APPD					

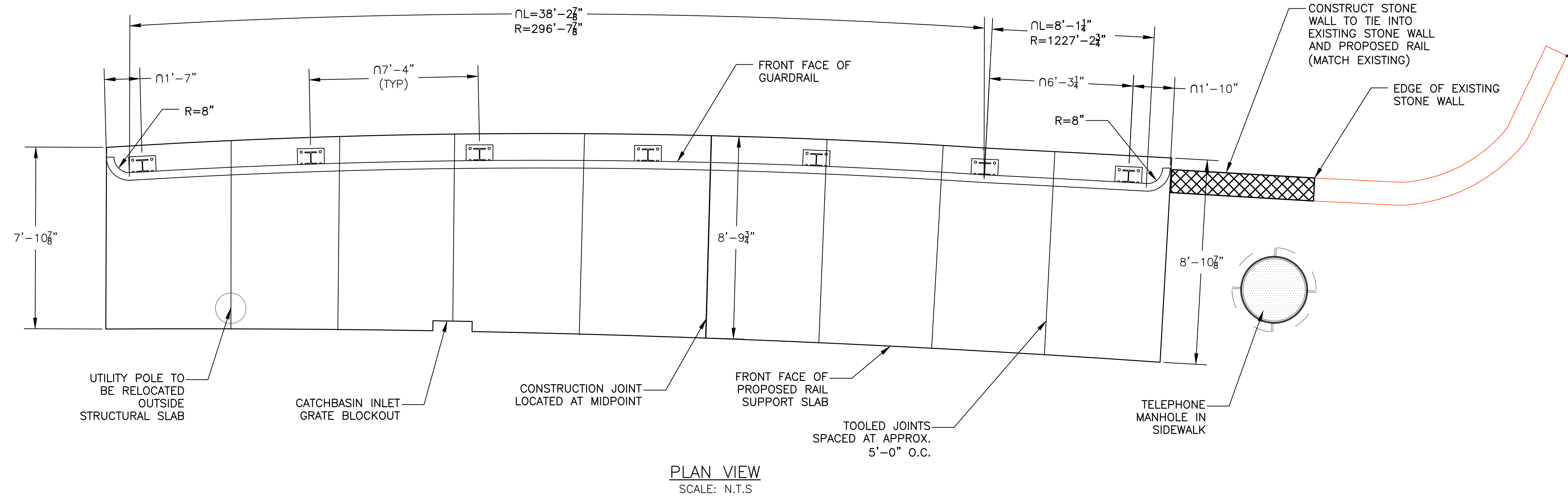
DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1630



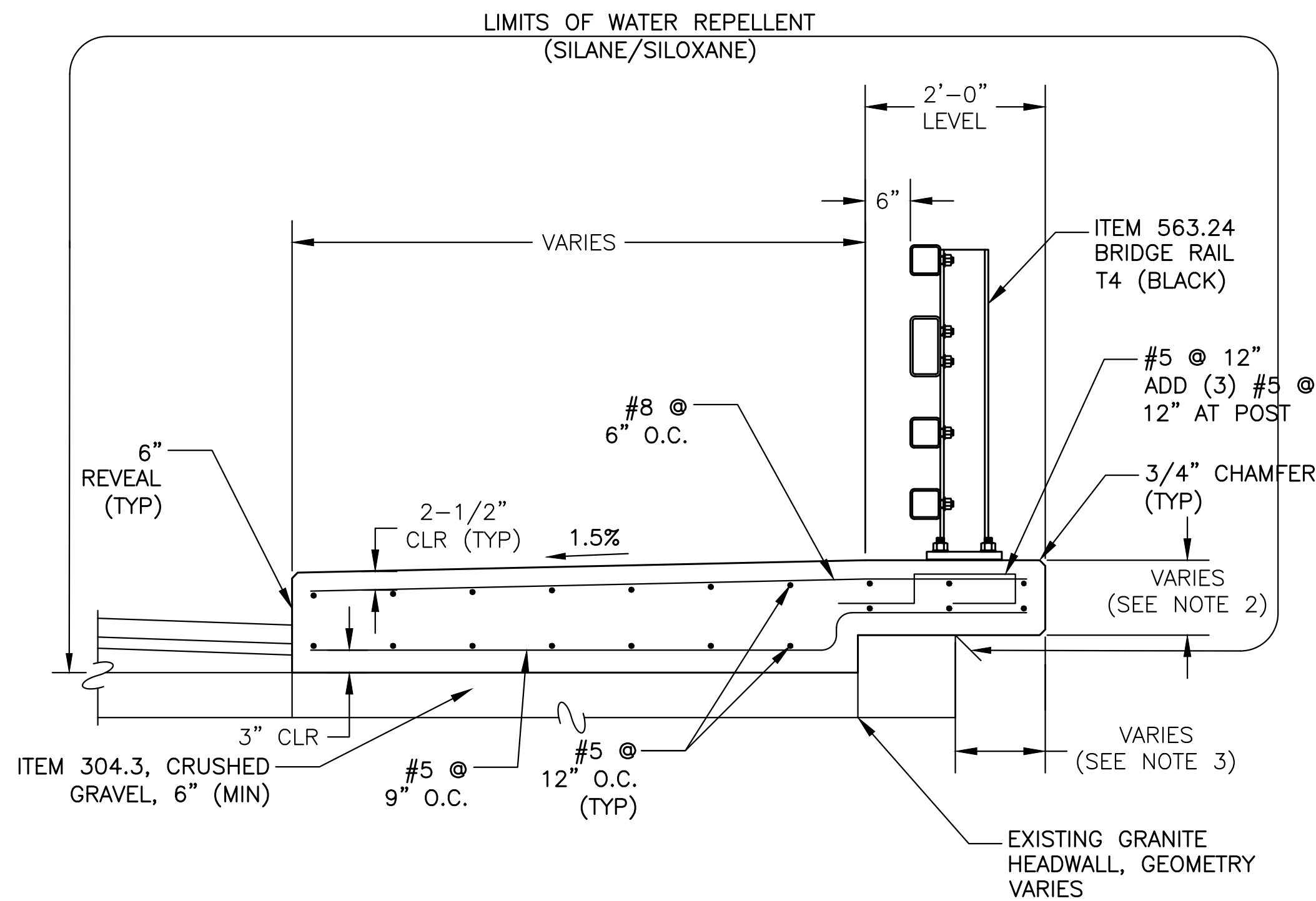
DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

BARTLETT STREET AREA RECONSTRUCTION
DETAIL SHEET LANDSCAPING

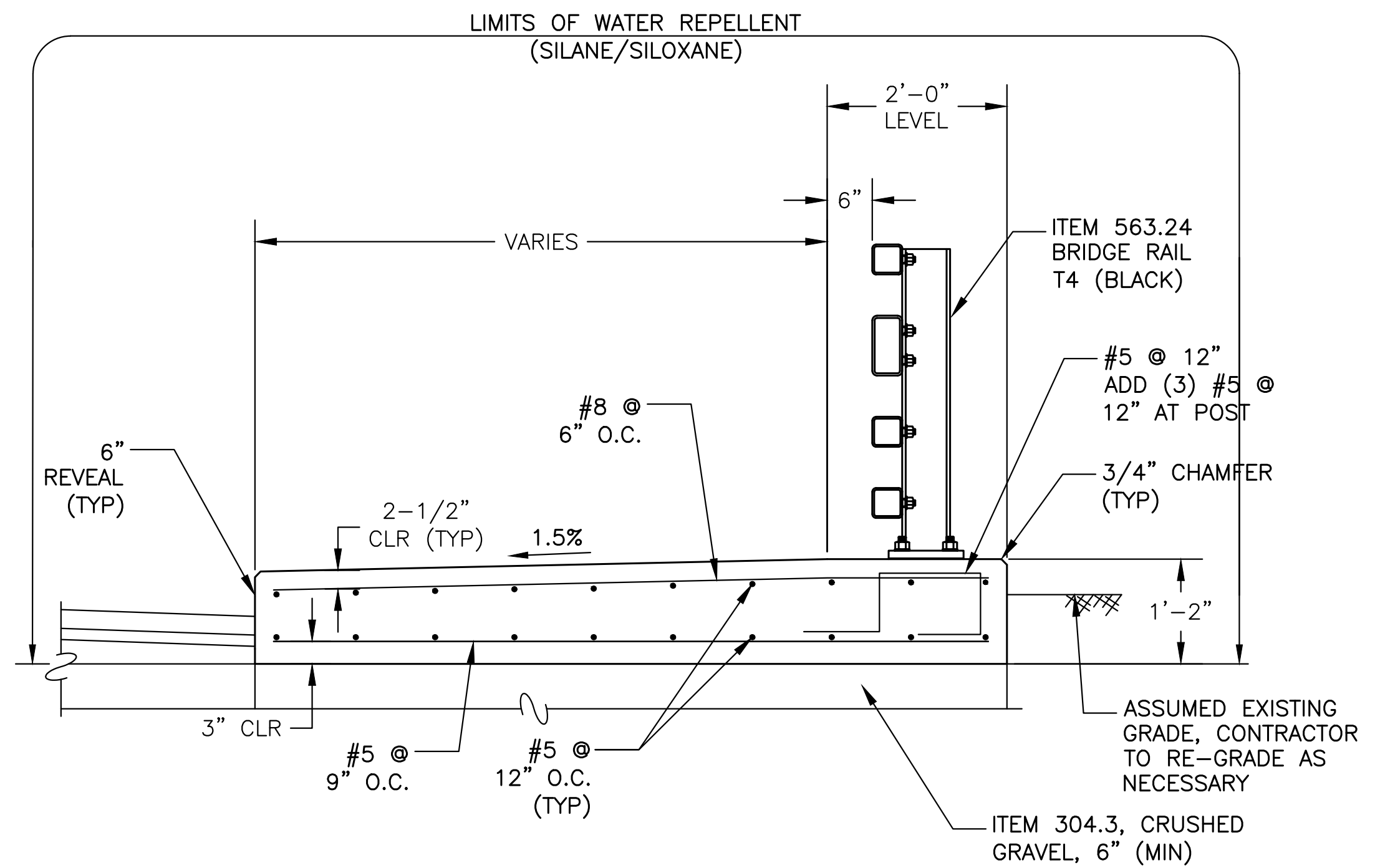
PROJECT: BARTLETT STREET AREA RECONSTRUCTION
SHEET: C-608



PLAN VIEW
SCALE: N.T.S.



TYPICAL OVERHANG SECTION
SCALE: N.T.S.



TYPICAL STANDARD SECTION
SCALE: N.T.S.

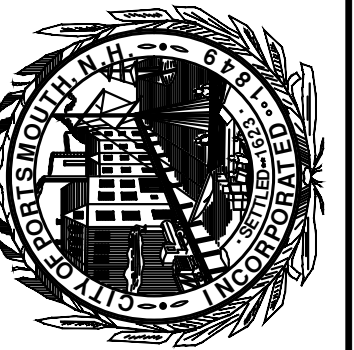
NOTES

- EXISTING SITE CONDITIONS AND GEOMETRY ARE ASSUMED BASED ON LIMITED SITE INFORMATION.
- WHERE THE EXISTING GRANITE HEADWALL CONFLICTS WITH A FULL DEPTH RAIL SUPPORT SLAB THE DEPTH SHALL BE REDUCED AS NECESSARY TO A MINIMUM OF 10". AT THESE LOCATIONS THE RAIL SUPPORT SLAB SHALL BE THICKENED BY 1" BEYOND THE LIMITS OF THE HEADWALL.
- THE OVERHANG SHALL NOT EXCEED 1'-0".
- 6" MIN COMPACTED CRUSHED GRAVEL CONFORMING TO THE MATERIAL REQUIREMENTS OF NHDOT ITEM NUMBER 304.3 SHALL BE PLACED BELOW THE RAIL SUPPORT SLAB AND SHALL EXTEND 1'-0" BEYOND THE FRONT AND BACK FACE OF THE RAIL SUPPORT OUTSIDE THE LIMITS OF THE EXISTING GRANITE HEADWALL.
- REINFORCING TO BE BENT AS NECESSARY TO ACHIEVE ADEQUATE CLEAR COVER AROUND EXISTING GRANITE HEADWALL.

RAIL SUPPORT SLAB SECTIONS
SCALE: N.T.S.

DATE:	3/21/24
ISSUED FOR CONSTRUCTION	MRB
ISSUED FOR BID	MRB
REVISIONS	APPD
NO.	DATE
2	
0	

DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA
RECONSTRUCTION
TITLE: H.T.A. DETAIL SHEET
MONOLITHIC CURB/SIDEWALK

GENERAL NOTES

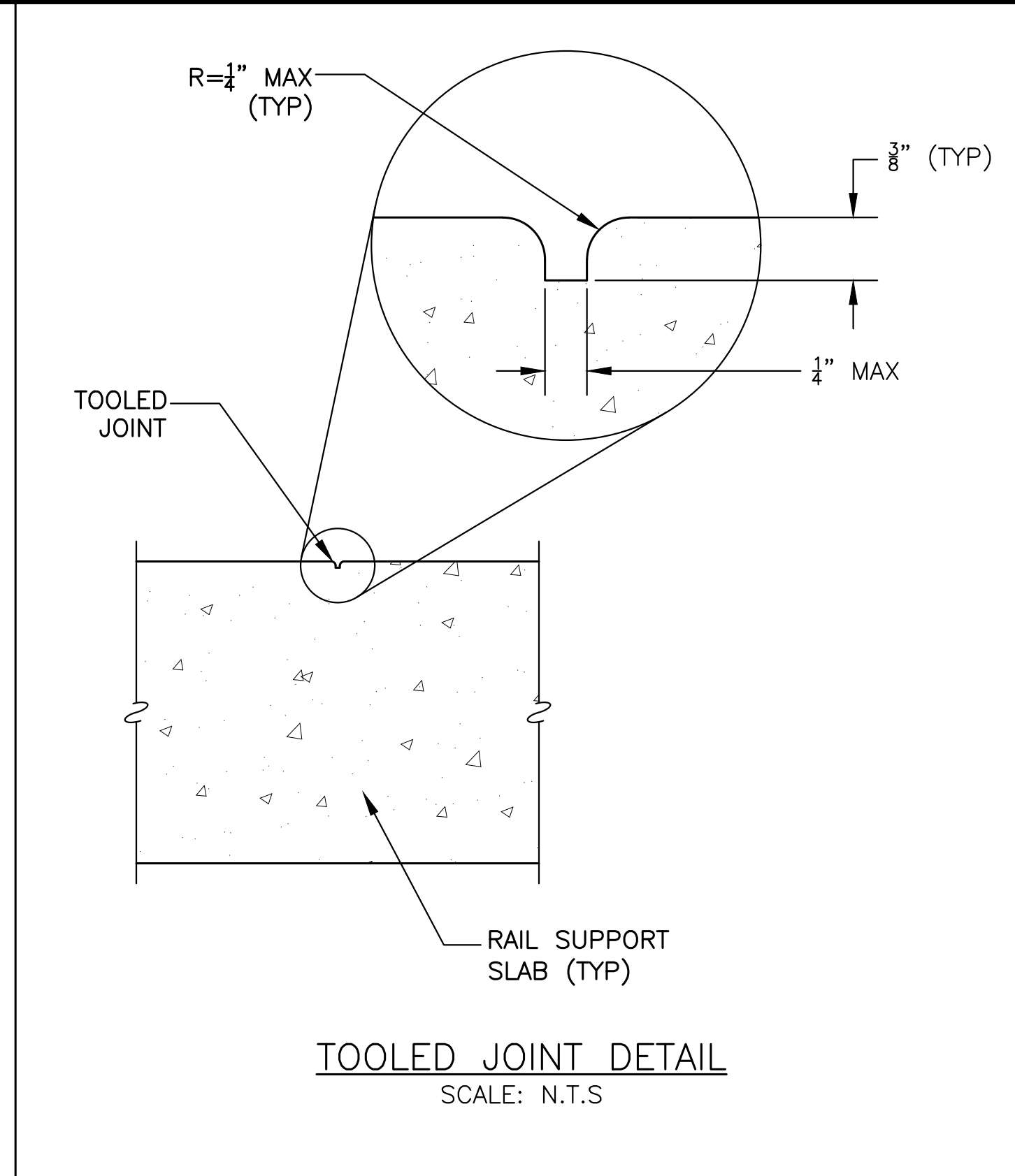
- GENERAL NOTES SHALL APPLY TO ALL DRAWINGS PREPARED BY HOYLE TANNER & ASSOCIATES (HOYLE TANNER) AND THE PROPOSED WORK THEY CONVEY.
- THE WORK DETAILED IN THESE PLANS IS INTENDED TO BE BUILT AS PART OF THE BARTLETT STREET RECONSTRUCTION PROJECT BEING PERFORMED BY THE CITY OF PORTSMOUTH, NH.
- THE PURPOSE OF THIS PLAN IS TO SCHEMATICALLY DEPICT DETAILS FOR THE REPLACEMENT OF THE EXISTING, SUBSTANDARD CHAIN LINK FENCE BARRIER WITH A PROPOSED RAIL SUPPORT SLAB AND STANDARD GUARDRAIL SYSTEM. THIS PLAN CONTAINS SUFFICIENT INFORMATION FOR COMPLETION OF THIS WORK BUT DOES NOT INCLUDE ALL QUANTITIES AND ITEM NUMBERS.
- THE PROPOSED RAIL SUPPORT SLAB SHALL BE CONSTRUCTED ALONG BARTLETT STREET BETWEEN THE EXISTING STONE WALL ADJACENT TO TAX MAP 164-1 AND TAX MAP 158-13 FOR APPROXIMATELY 53 LF.
- ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS, THE MORE STRINGENT SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND COORDINATION OF OTHER TRADES.
- THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTORS RESPONSIBILITY.
- DIMENSIONS, ANGLES, AND ELEVATIONS SHOWN ON THESE CONTRACT PLANS HAVE BEEN OBTAINED FROM LIMITED FIELD INVESTIGATIONS, AND SURVEY, AND MAY NOT ACCURATELY REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING STRUCTURE COMPONENTS IMPACTED BY THE PROPOSED MODIFICATIONS. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OF ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- ALL APPLICABLE UTILITY DEPARTMENTS AND COMPANIES SHALL BE NOTIFIED BEFORE EXCAVATION IS STARTED. UTILITIES WITHIN 50 FEET OF AN EXCAVATION SHALL BE MARKED IN THE FIELD.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.
- HOYLE TANNER WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE DUE TO THE FAILURE OF THE CONTRACTOR:
 - TO FOLLOW THESE DRAWINGS AND SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY.
 - TO NOTIFY HOYLE TANNER OF ANY DISCREPANCIES, ERRORS, OMISSIONS OR CONFLICTS AND OBTAIN THEIR GUIDANCE TO RESOLVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE NHDOT GUIDELINES FOR TEMPORARY EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT BY THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION BUREAU OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT DEBRIS DOES NOT FALL INTO THE WATERWAY BELOW THE EXISTING STRUCTURE DURING CONSTRUCTION.
- THE SURVEY USED FOR THESE PLANS WERE PROVIDED TO HOYLE TANNER BY THE CITY OF PORTSMOUTH VIA EMAIL ON SEPTEMBER 29, 2023.

MATERIAL AND REINFORCEMENT NOTES

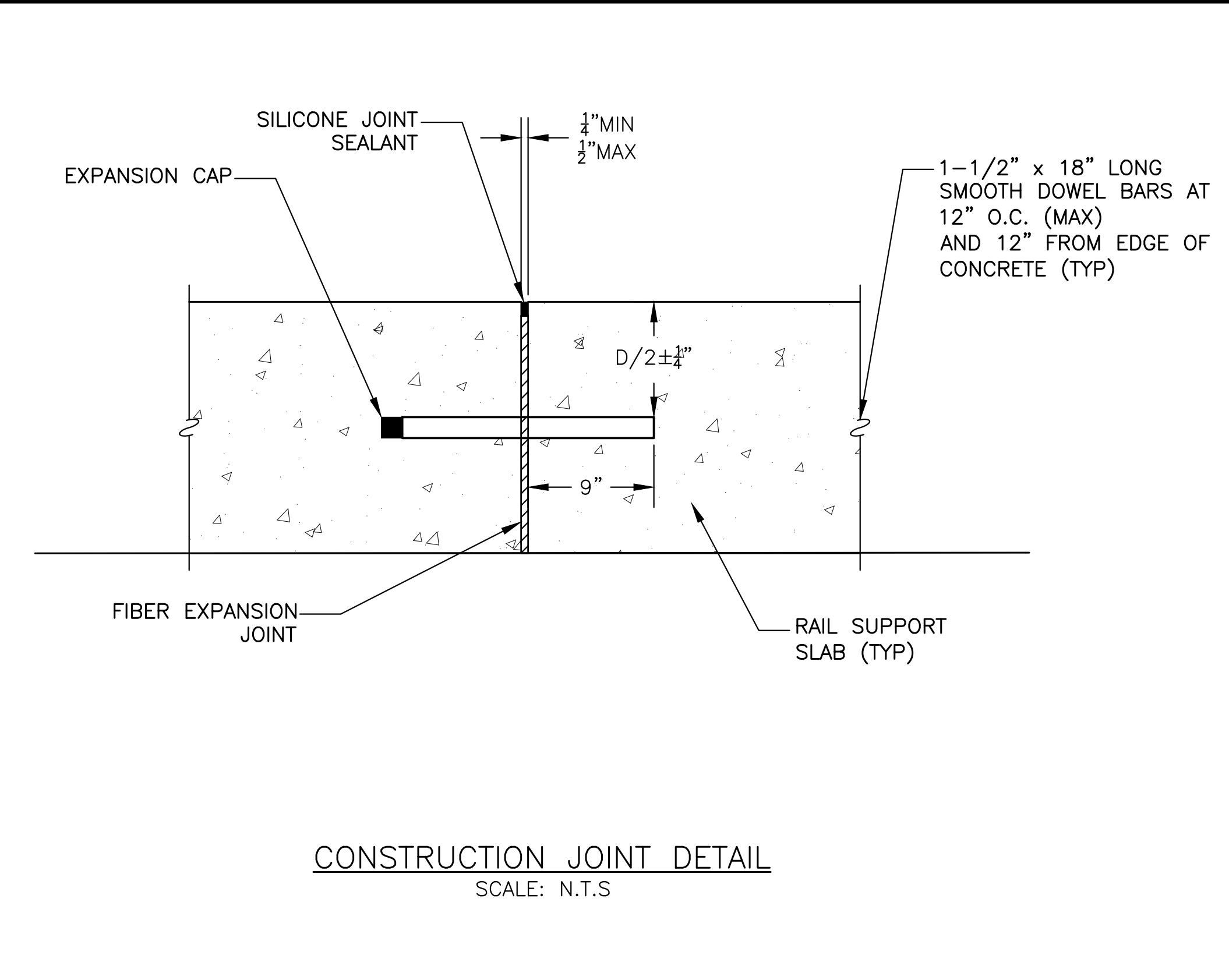
- ALL CONCRETE SHALL CONFORM TO THE STANDARDS OF NHDOT CLASS AA WITH A MINIMUM COMPRESSIVE STRENGTH OF 4.0 KSI.
- ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
- ALL REINFORCING STEEL SHALL HAVE 2 1/2" MINIMUM CLEAR COVER UNLESS OTHER WISE NOTED.

RAIL SUPPORT SLAB CONSTRUCTION NOTES

- THE RAIL SUPPORT SLAB SHALL BE CONSTRUCTED TO ACHIEVE A 6" CURB REVEAL MEASURED FROM THE PAVEMENT FINISHED GRADE.
- ALIGN FACE OF RAIL WITH THE FACE OF THE EXISTING STONE WALL TO REMAIN ON THE SOUTHERN RAIL SUPPORT SLAB EXTENTS.
- THE RAIL SUPPORT SLAB SHALL BE STRUCTURALLY INDEPENDENT OF THE BARTLETT STREET BRIDGE OVER HODGDON BROOK (NHDOT BRIDGE NO. 204/101).
- THE FACE OF CONCRETE CURB SHALL BE ALIGNED WITH THE VERTICAL GRATE OF THE NEENAH R-3170 SYSTEM.
- THE RAIL SUPPORT SLAB AND CURB REVEAL OF THE NEENAH R-3170 SYSTEM SHALL BE FLUSH.
- TOOLED JOINTS SHALL BE INSTALLED IN A MANNER CONSISTENT WITH THE SURROUNDING SIDEWALK RECONSTRUCTION THROUGHOUT THE PROJECT AND AS SHOWN ON THE PLANS. SCHEMATIC JOINT LOCATIONS ARE SHOWN BASED ON AN APPROX. JOINT SPACING OF 5'-0". ACTUAL LOCATIONS TO BE ADJUSTED AS NECESSARY TO PROPERLY LOCATE JOINTS AT CORNERS AND EDGES OF UTILITY FEATURES.
- REMOVE EXISTING VEGETATION AS NECESSARY TO CONSTRUCT RAIL SUPPORT SLAB.



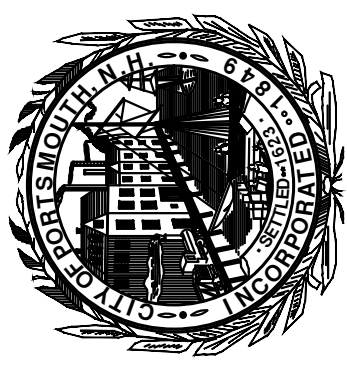
TOOLED JOINT DETAIL
SCALE: N.T.S



CONSTRUCTION JOINT DETAIL
SCALE: N.T.S

NO.	REVISIONS	ISSUED FOR BID	ISSUED FOR CONSTRUCTION	DATE
0		MRB	MRB	12/9/23
1				3/21/24

DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 FEVERLY HILL ROAD
603-427-1630



DATE: JANUARY 2023
SCALE: AS SHOWN
PROJ. NO.: 7238
APVD BY: MRB

PROJECT: BARTLETT STREET AREA RECONSTRUCTION
TITLE: H.T.A. DETAIL SHEET MONOLITHIC CURB/SIDEWALK
SHEET: C-610