

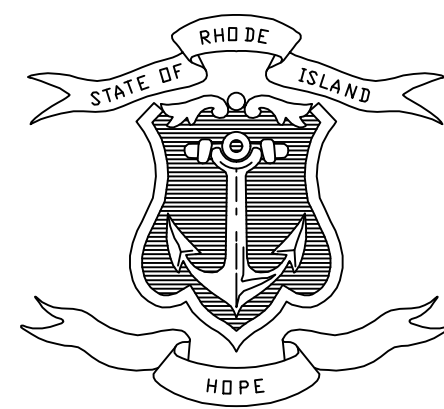
NARRAGANSETT BAY COMMISSION

PHASE III COMBINED SEWER OVERFLOW PROGRAM

OF-210/213/214 FACILITIES

CONTRACT NO. 308.04C

60% DESIGN
JULY 2021



STATE OF RHODE ISLAND

DANIEL J. MCKEE _____ GOVERNOR



RHODE ISLAND
INFRASTRUCTURE BANK

MERRILL W. SHERMAN _____ CHAIRMAN

JEFFREY R. DIEHI _____ EXECUTIVE DIRECTOR
AND CEO



VINCENT J. MESOLELLA JR. _____ CHAIRMAN

LAURIE A. HORRIDGE _____ EXECUTIVE DIRECTOR

KATHRYN KELLY, P.E. _____ CSO PROGRAM MANAGER

DAVID C. BOWEN, P.E. _____ ENGINEERING
MANAGER

PROGRAM MANAGEMENT TEAM



DESIGN TEAM



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BY: JAIMIE PAYNE

DWG FILE: J:\6412 NBC CSD Consolidation Conduits\Drawing Files\CivilSheet Set\PAVW_IIA-4_IIA-5_LIST_OF_DRAWINGS.dwg PLOT DATE: Thursday, May 20, 2021 12:07:33 PM

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

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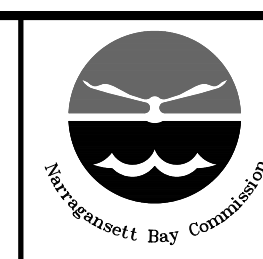
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DESIGNED	C. CRONIN
DRAWN	J. PAYNE
CHECKED	J. D'ALELIO

90% DESIGN PHASE - APRIL 2021

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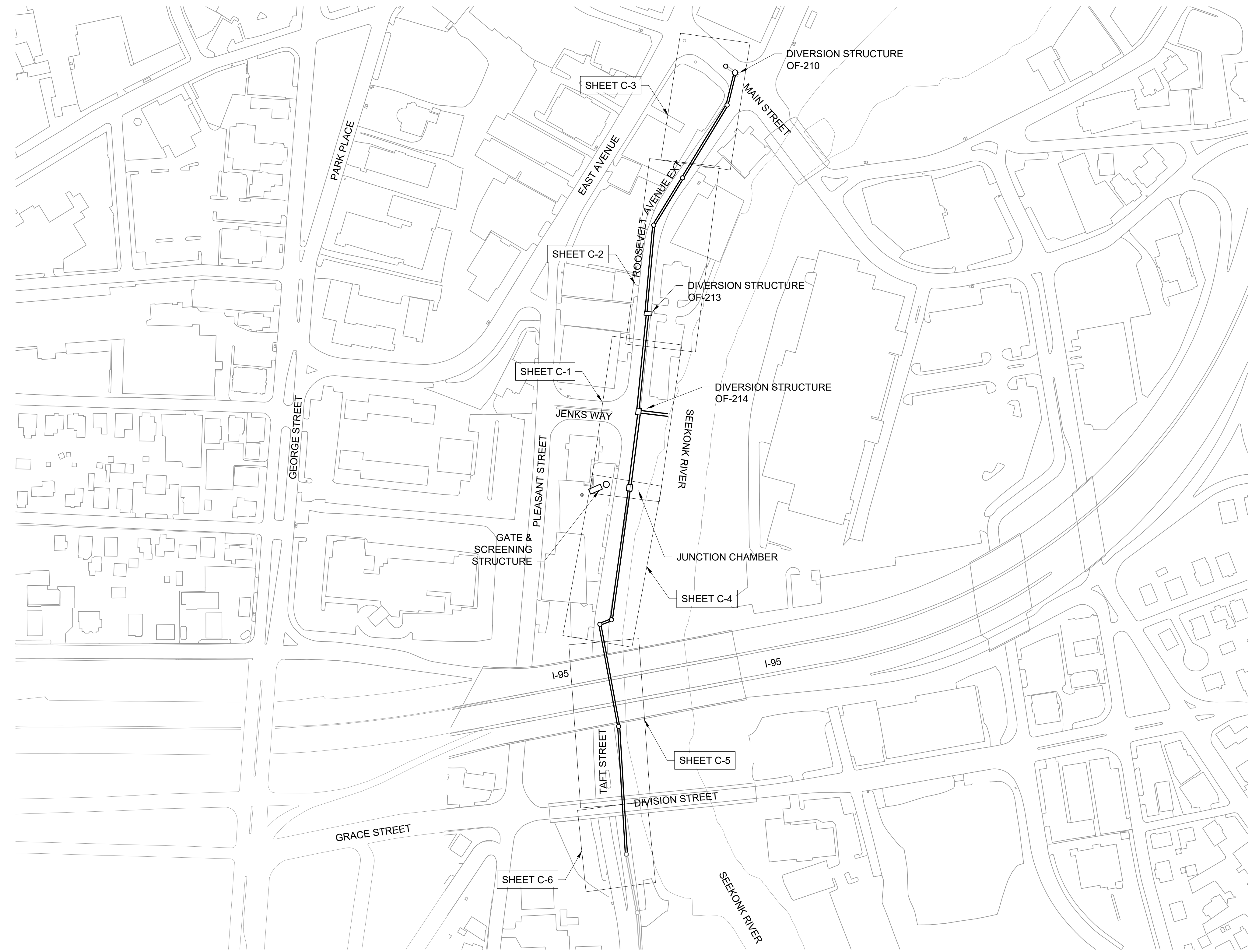
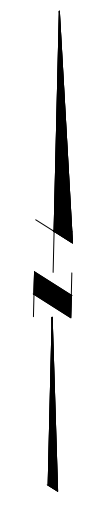


NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
GENERAL
DROP SHAFT 213 CONSOLIDATION CONDUIT
LIST OF DRAWINGS

SHEET
G-1
195130227

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LOCATION MAP

KEY PLAN



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GENERAL

OF 210/213/214 FACILITIES
LOCATION AND VICINITY MAP

SHEET
G-1
195130227

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GENERAL SYMBOLOGY	
	NEW CONSTRUCTION
	EXISTING (SCREENED)
	FUTURE (PHANTOM)
	EXISTING TO BE REMOVED OR DEMOLISHED

MATERIAL SYMBOLOGY	
	CONCRETE (PLAN AND SECTION)
	GROUT OR SAND (PLAN AND SECTION)
	BRICK (PLAN AND SECTION)
	CMU (PLAN AND SECTION)
	STEEL/METAL/FRP (SMALL SCALE SECTION)
	CHECKER PLATE OR SOLID FRP GRATING (PLAN)
	CHECKER PLATE (SECTION)
	GRATING (PLAN)
	GRATING OR SOLID FRP GRATING (SECTION)
	SAFETY GRATING (PLAN)
	SAFETY GRATING (SECTION)
	RAILING (PLAN)
	WOOD (PLAN OR ELEVATION)
	LUMBER/FRAMING - NOMINAL
	LUMBER - TRIMMED (BLOCKING OR SHIMS)
	PLYWOOD (SMALL SCALE)
	FINISHED GRADE
	GRAVEL/DRAINROCK/AGGREGATE BASE

VALVE AND GATE ACTUATORS	
	D = DIGITAL E/H = ELECTROHYDRAULIC P = PNEUMATIC S = SOLENOID T = TEMPERATURE
	HAND / MANUAL OPERATOR (ALSO SHOWN AS NO OPERATOR)
	MOTOR OPERATOR
	PRESSURE BALANCED DIAPHRAGM ACTUATOR
	PRESSURE REGULATOR WITH EXTERIOR TAP
	PRESSURE REGULATOR (SELF CONTAINED)
	PRESSURE RELIEF OR SAFETY ACTUATOR
	WEIGHT BALANCED OPERATOR

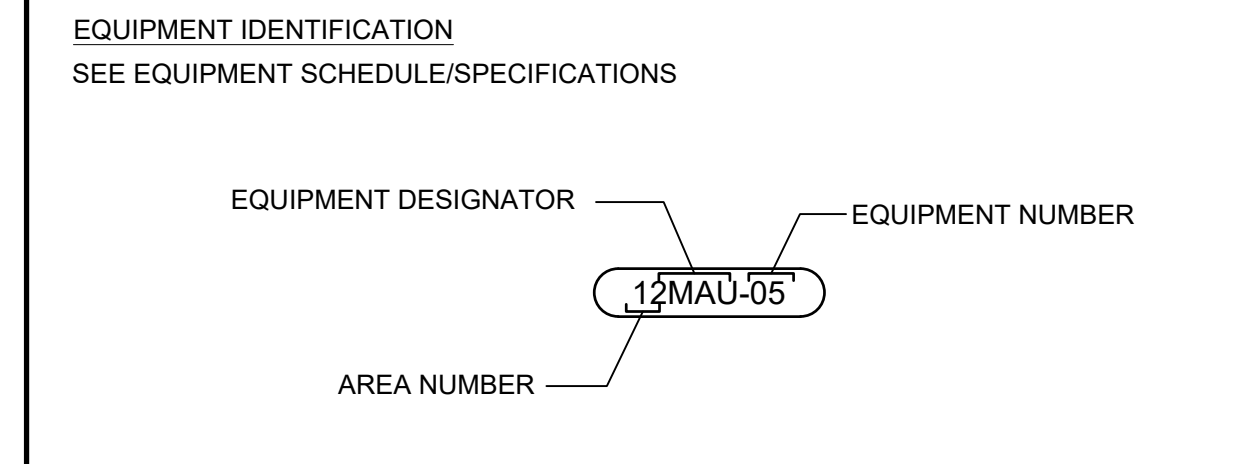
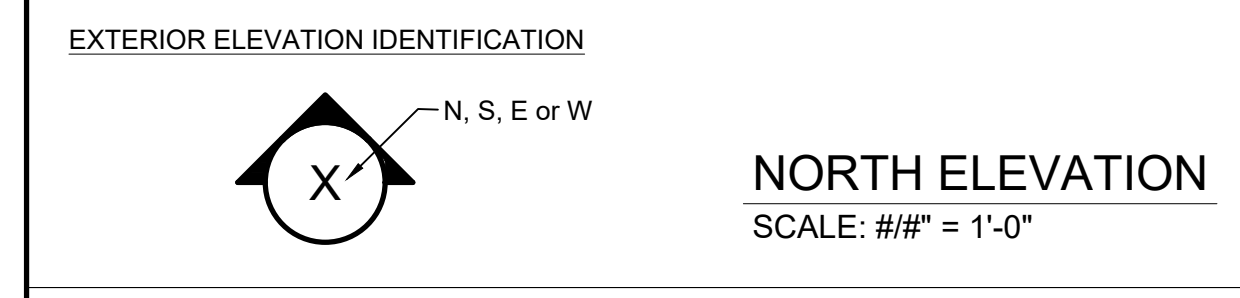
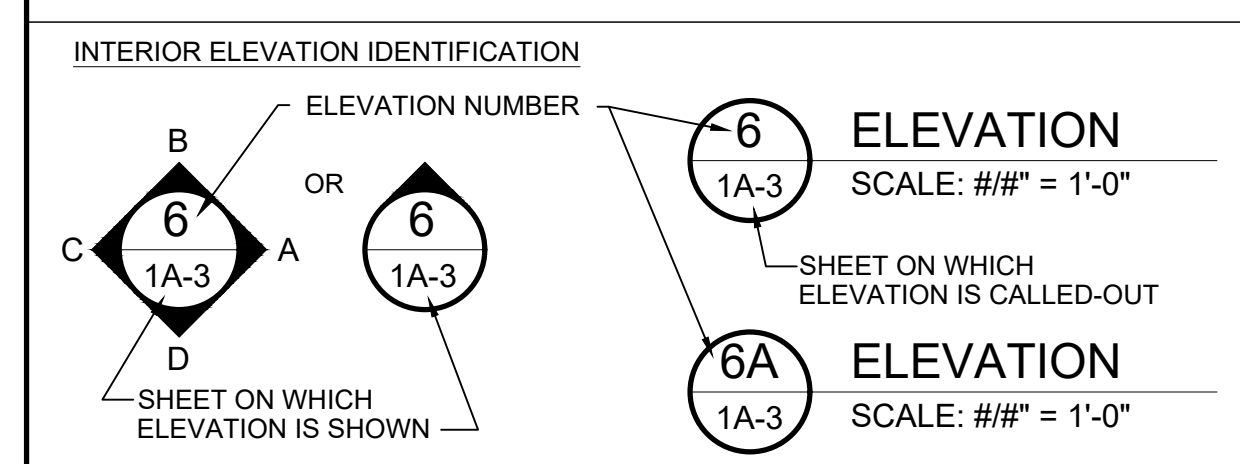
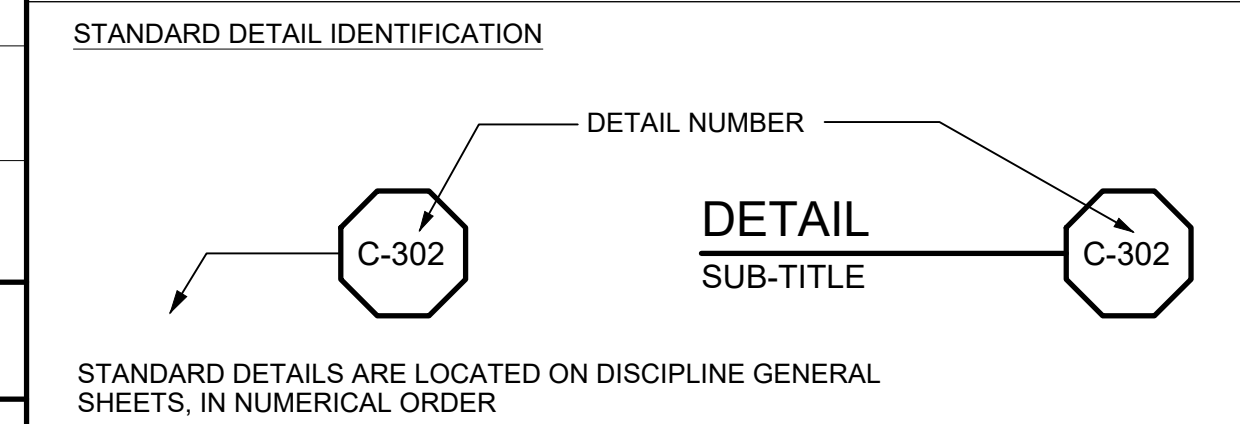
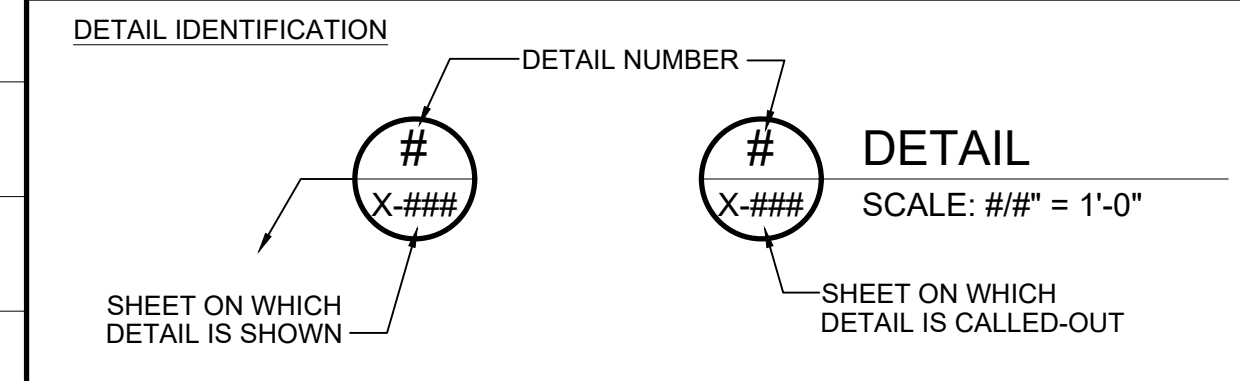
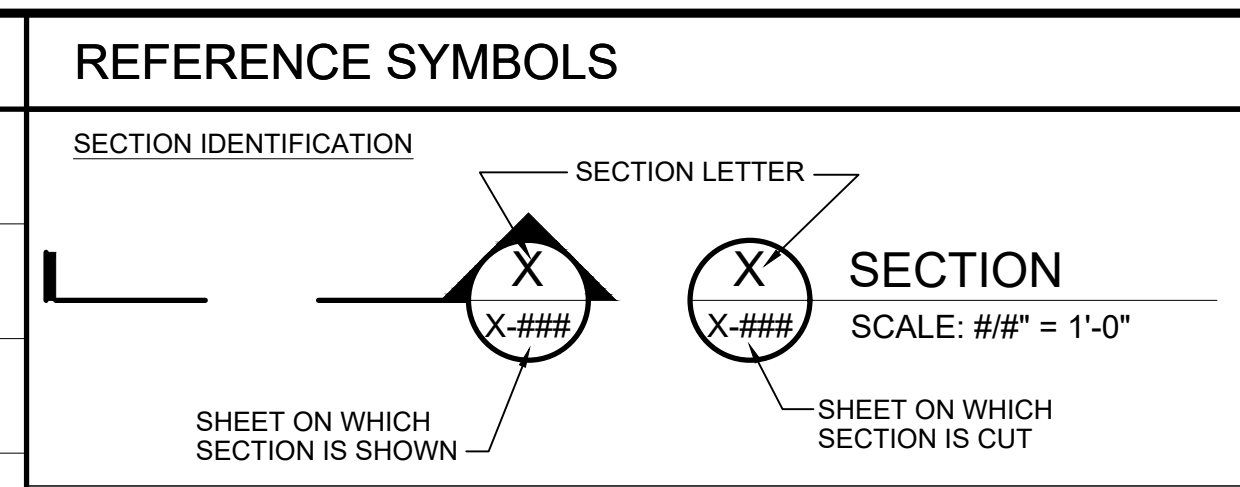
VALVES	
	3 WAY MULTI-PORT VALVE
	4 WAY MULTI-PORT VALVE
	AIR VACUUM, AIR RELEASE, OR AIR VACUUM AND AIR RELEASE ASSEMBLY
	ANGLE VALVE
	BACK-PRESSURE VALVE
	BACKFLOW PREVENTER VALVE
	BACKWATER VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	CHECK VALVE - ANGLE
	CHECK VALVE - BALL
	CHECK VALVE - SILENT
	CHECK VALVE - STOP
	GATE VALVE
	HOSE BIBB VALVE FROM TOP, FRONT AND SIDE VIEW
	PRESSURE REGULATING VALVE
	PRESSURE RELIEF VALVE

GATES	
	SLIDE GATE (CAST IRON, ALUMINUM OR STAINLESS STEEL)

PUMPS & COMPRESSORS	
	AIR DRIVEN DIAPHRAGM PUMP

PIPING ENDS (SINGLE-LINE)	
	BLIND FLANGE
	PIPE MATERIAL CHANGE
	PUSH-ON JOINT - BELL AND SPIGOT
	PUSH-ON JOINT - RESTRAINED
	SLEEVE TYPE COUPLING
	SLEEVE TYPE COUPLING - RESTRAINED
	UNION
	WELDED

PIPING ACCESSORIES	
	PIPE SUPPORT (PLAN)



MISCELLANEOUS

	2-16 DOOR NUMBER		### COORDINATE POINT
	1-8 WINDOW NUMBER		Ø ROUND OR DIAMETER
	13 ACCESSORY NUMBER		@ AT
	4 WALL TYPE NUMBER		∠ ANGLE
	A SHEET KEY NOTES		℄ CENTERLINE

DISCIPLINE SPECIFIC SYMBOLS ARE SHOWN ON THE DISCIPLINE GENERAL DRAWINGS.
FOR WELDING SYMBOLS USE AMERICAN WELDING SOCIETY STANDARD SYMBOLS.

REV 012216

HVAC	
	AIR CONDITIONING UNIT
	AIR FILTER
	AIR HANDLING UNIT
	CEILING RETURN OR EXHAUST AIR GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	CEILING SUPPLY DIFFUSER (SIZE IN INCHES)
	DAMPER
	DAMPER - FIRE DAMPER WITH ACCESS DOOR
	DAMPER - MANUAL VOLUME
	DAMPER - MOTORIZED
	DUCT (FIRST DIMENSION, DUCT SIDE SHOWN; SECOND DIMENSION, DUCT SIDE NOT SHOWN)
	DUCT WITH ACOUSTICAL LINING
	DUCT SMOKE DETECTOR
	EXHAUST OR RETURN AIR DUCT (FIRST DIMENSION, DUCT WIDTH)
	EXHAUST OR RETURN AIR GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	HEATER
	HVAC FAN
	HVAC LOUVER
	THERMOSTAT
	SUPPLY GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	SUPPLY OR OUTSIDE AIR DUCT (FIRST DIMENSION, DUCT WIDTH)
	UNIT HEATER

MISCELLANEOUS	
	MISCELLANEOUS EQUIPMENT
	MOTOR SYMBOL
	PRESSURE GAUGE
	PRESSURE GAUGE WITH DIAPHRAGM SEAL
	PRESSURE SWITCH
	PRESSURE SWITCH WITH DIAPHRAGM SEAL
	WATER LEVEL

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PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
GENERAL
OF 210/213/214 FACILITIES
SYMBOLS

SHEET
G-3
195130227

BY: JAMIE PAYNE

PLOT DATE: Thursday, May 20, 12:08:09 PM

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A A/C A/R AASHTO	AIR / AMPERE AIR CONDITIONING AIR RELEASE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS ANCHOR BOLT	CULV CV CY CYL	CULVERT CHECK VALVE CUBIC YARD CYLINDER	G GA GAL GALV GANC	GAS GAGE / GAUGE GALLON GALVANIZED GUY ANCHOR GRADE BREAK GENERAL / GENERATOR GROOVED FLANGE ADAPTER GALVANIZED IRON GALVANIZED IRON PIPE GLASS / GROUND LINE / GRADE LINE GLUE LAMINATED BEAM / GLULAM GLOBE VALVE GAS METER GUY POLE GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GRADE GRADE / GROUND GRATING GALVANIZED STEEL PIPE GATE VALVE GYPSUM	MAT MAX MB MCC MCR MEAS MECH MED MEMB MFR MFRD MGD MH MHT MHW MI MICRON MIL MIN MIR MISC MK MLW mm MO MOD MON MOR MS MSL MTC MTD MTG MTL MTR	MATERIAL MAXIMUM MAIL BOX / MACHINE BOLT MOTOR CONTROL CENTER MIDDLE OF CURB RETURN MEASUREMENT MECHANICAL MEDIUM MEMBER MANUFACTURER MANUFACTURED MILLION GALLONS PER DAY MEASURE / MAINTENANCE HOLE MEAN HIGH TIDE MEAN HIGH WATER MALLEABLE IRON / MILE 1/1,000,000 METER MILITARY / 1/1,000TH INCH MINIMUM / MINUTE MIRROR MISCELLANEOUS MARK MEAN LOW WATER MILLIMETER MOTOR OPERATED / MASONRY OPENING MODEL MONUMENT MORTAR MOP SINK MEAN SEA LEVEL MECHANICAL-TYPE COUPLING MOUNTED MOUNTING METAL MOTOR	PVC PVDF PW	POLYVINYL CHLORIDE POLYVINYLIDENE FLUORIDE (KYNAR) POTABLE WATER	QT QTY QUAD	QUARRY TILE QUANTITY QUADRANGLE / QUADRANT	R R&O R/W RAC RAG RAP RAS RC RCP RD RED REF REG REINF REQD RESIL RET REV REW RF RFG RGE RH RM RTL RPM RR RS RSL RT RTP RTU RW RWL	RADIUS / RISER / RATE OF SLOPE ROCK AND OIL RIGHT OF WAY RECYCLED ASPHALT CONCRETE RETURN AIR GRILLE RECLAIMED ASPHALT PAVEMENT RETURN ACTIVATED SLUDGE REINFORCED CONCRETE REINFORCED CONCRETE PIPE ROAD / ROOF DRAIN / ROUND REDUCER / REDUCING REFERENCE / REFER / REFRIGERATOR REGULATING REINFORCE / REINFORCED REQUIRED RESILIENT RETAINING / RETURN REVISION RECLAIMED WATER ROOF / RAISED FOUNDATION / ROUGH FACE ROOFING REGISTERED GEOTECHNICAL ENGINEER REDHEAD / RIGHT HAND ROOM ROUGH OPENING REVOLUTIONS PER MINUTE RAILROAD RISING STEM RAW SLUDGE RIGHT REINFORCED THERMOSETTING PLASTIC REMOTE TERMINAL UNIT REDWOOD RAINWATER LEADER	S S/O SAM SAN SBR SC SCCP SCREWED SCFM SCH SD SDR	SOUTH / SCUM / SINK / SECOND / SLOPE / SOUTH OF SAMPLE SANITARY STYRENE BUTADIENE (RUBBER) SECONDARY CLARIFIER STEEL CYLINDER CONCRETE PIPE SCORED STANDARD CUBIC FEET PER MINUTE SCHEDULE SANITARY DRAIN / SMOKE DETECTOR STANDARD THERMOPLASTIC PIPE DIMENSION RATIO / STORM DRAIN SECONDARY / SECTION SECT SER SETT SF SH SHELV SHT SHTG SIM SL SLDG SLG SOG SOLN SP SPEC SPK SQ SS	S S/O SAM SAN SBR SC SCCP SCREWED SCFM SCH SD SDR	SOUTH / SCUM / SINK / SECOND / SLOPE / SOUTH OF SAMPLE SANITARY STYRENE BUTADIENE (RUBBER) SECONDARY CLARIFIER STEEL CYLINDER CONCRETE PIPE SCORED STANDARD CUBIC FEET PER MINUTE SCHEDULE SANITARY DRAIN / SMOKE DETECTOR STANDARD THERMOPLASTIC PIPE DIMENSION RATIO / STORM DRAIN SECONDARY / SECTION SECT SER SETT SF SH SHELV SHT SHTG SIM SL SLDG SLG SOG SOLN SP SPEC SPK SQ SS	SSB SSPWC	SELECT SUB-BASE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION	SSU ST STA STC STD STK STL STM STR SU SUCTION SV SW SWD SWGR SWR SY SYM SYS	SSB SSPWC	SELECT SUB-BASE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION	T T&B T&G TAN TB TBE TBM TC TCV TEL TEMP TF TH THK THR THR'D TK TL TOC TOE TOLET TOM TOP TOPO	THERMOSTAT / TREAD OF STAIR / TANGENT TOP AND BOTTOM TONGUE AND GROOVE TANGENT TACK BOARD THREAD BOTH ENDS TEMPORARY BENCH MARK TOP OF CURB TEMPERATURE CONTROL VALVE TELEPHONE TEMPERATURE / TEMPORARY TOP OF FOOTING TEST HOLE THICK / THICKNESS THRESHOLD THREADED TANK / TACK TRAVERSE LINE TOP OF CONCRETE THREAD ONE END TOILET TOP OF MASONRY TOP OF PIPE TOPOGRAPHIC	TOS TOW TR TR TRANS TS TSB TSC TV TW TYW	TOP OF STEEL TOP OF WALL TELEPHONE POLE TRACT TRANSMITTER / TRANSITION / TRANSMISSION TRAFFIC SIGNAL TOP SET BASE TRAFFIC SIGNAL CONDUIT THERMOSTATIC VALVE / TELEVISION THERMOMETER WELL / TRAVELED WAY TYPICAL	UB UBC UC UG UGC UH UL UNID UNO UOI UPS UR USA USGS UV UW	UNION BONNET UNIFORM BUILDING CODE UNDER-CROSSING UNDERGROUND UNDERGROUND CONDUIT UNIT HEATER UNDERWRITERS LABORATORIES UNIDENTIFIED UNLESS NOTED OTHERWISE UNLESS OTHERWISE INDICATED UNINTERRUPTIBLE POWER SUPPLY URNAL UNDERGROUND SERVICE ALERT UNITED STATES GEOLOGICAL SURVEY ULTRAVIOLET UTILITY WATER	V VAC VAR VB VC VCP VERT VOL VPI VSL VST VTR VWC VWM	VALVE / VERTICAL / VENT / VOLT / VOLUME VACUUM VARIES / VARIABLE VALVE BOX VERTICAL CURVE VITRIFIED CLAY PIPE VERTICAL VOLUME VERTICAL POINT OF INTERSECTION VERTICALLY SLOTTED VENT TO CEILING VENT THROUGH ROOF VINYL WALL COVERING VERIFY WITH MANUFACTURE	W WI W/O WC WCO WD WDW WH WI WM WOG WP	WEST / WASTE / WIDTH / WIDE FLANGE / WATER WITH WEST OF / WITHOUT WATER COLUMN / WATER CLOSET WALL CLEANOUT WOOD WINDOW WATER HEATER WROUGHT IRON WATER METER WATER, OIL, OR GAS WORKING PRESSURE / WORK POINT	WPJ WS WSTP WT WWF WWP	WEAKEN PLANE JOINT WATER SURFACE WATERSTOP WEIGHT WELDED WIRE FABRIC WATER WORKING PRESSURE	XCONN XS XSEC XXS	CROSS CONNECTION EXTRA STRONG CROSS SECTION DOUBLE EXTRA STRONG	YD YR	YARD YEAR	Z ZN	ZERO / ZONE ZINC	# & @	POUND AND AT
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FOR ADDITIONAL ABBREVIATIONS SEE:

CIVIL - GENERAL CIVIL SHEETS
PIPING - PIPING SCHEDULE
ELECTRICAL - GENERAL ELECTRICAL SHEETS
INSTRUMENTATION - GENERAL INSTRUMENTATION SHEETS

OTHER ABBREVIATIONS CONFORM TO ANSI
STANDARD ABBREVIATIONS Z32.2.3

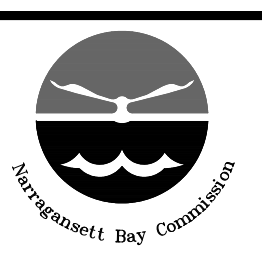
REV 080116

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GENERAL

OF 210/213/214 FACILITIES
ABBREVIATIONS

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 BY: JAIMIE PAYNE

CIVIL GENERAL NOTES

GENERAL

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS FROM DEMOLITION AT CONTRACTOR'S EXPENSE.
- ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.
- THE CONTRACTOR SHALL DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS OLD GUNITE, PIPING, ROCK RUBBLE ETC... AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITE IN ACCORDANCE WITH SPECIFICATION SECTION 02200 and 02075.
- CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.

UTILITIES

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT DIGSAFE TO LOCATE EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POT HOLE FOR EXISTING UTILITIES IN THE LOCATIONS IDENTIFIED ON THE DRAWINGS AND FOR POINTS OF CONNECTION, PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
- THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
- PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER.
- PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL OR LOCAL UNDERGROUND SERVICE ALERT COMPANY AT LEAST 3 DAYS, BUT NO MORE THAN 7 DAYS, PRIOR TO SUCH EXCAVATION.

PIPING

- THE CONTRACTOR SHALL COMPLY WITH THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT POLICY CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES OF COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
- STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERT ELEVATIONS SHOWN OR SPECIFIED.
- THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON DRAWINGS.
- ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH DETAIL C-602 FOR RIGID PIPE AND C-601 FOR FLEXIBLE PIPE. THE PIPING SHOWN ON THESE PLANS SHALL BE RESTRAINED JOINT DESIGN AT ALL SLEEVE TYPE COUPLINGS.

EROSION CONTROL

- THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR WORK DURING THE CONSTRUCTION, SIGNED AND STAMPED BY A REGISTERED CIVIL ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 - ALL SLOPES SHALL BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND THEREAFTER, UNTIL INSTALLATION OF FINAL GROUND COVER (SEE LANDSCAPE PLANS FOR FINAL GROUND COVER).
 - ALL SLOPE PROTECTION SWALES SHALL BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.
 - THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE CITY, DISTRICT, OR OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING, MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.

CIVIL GENERAL NOTES - CONTINUED

SURVEY AND CONTROL

SURVEY INFORMATION PROVIDED BY BRYANT AND ASSOCIATES INC. NOV 2019. VERTICAL DATUM IS NGVD29 AND HORIZONTAL DATUM IS RI STATE PLANE COORDINATE SYSTEM NAD 83.

BENCHMARKS / CONTROL POINTS

POINT #	POINT DESCRIPTION	EASTING	NORTHING	ELEVATION
58	CONTROL POINT	359882.95	289488.51	38.06
59	DH SET	359813.36	289172.39	33.06
60	DH SET	359584.63	288961.99	24.31
61	DH SET	359554.63	288759.67	23.65
62	DH SET	359538.45	288626.49	24.52
63	DH SET	359519.32	288450.47	27.21
64	MN SET	359439.99	288229.12	21.28
65	DH SET	359449.71	287898.10	14.51
66	MN FND	359462.93	287548.38	12.30
67	DH SET	359521.61	287348.34	14.49
68	DH SET	359476.83	287125.65	33.42
69	CONTROL POINT	359483.28	286859.80	39.24
79	DH SET	359493.91	286667.59	37.98
70	SPIKE SET	359605.16	286687.46	35.22
71	SPIKE SET	359633.91	286616.36	34.22
72	SPIKE SET	359809.23	286476.37	22.04
73	SPIKE SET	359987.59	286149.73	25.92
74	SPIKE SET	360221.11	286003.10	12.63
75	MN SET	360294.94	286132.76	9.96
76	MN SET	360476.20	286165.27	10.04

DRAINAGE SYMBOLS

RIPRAP
 HAY BALE
 SILT FENCE

GENERAL CIVIL SYMBOLS

NEW
 EXISTING
 FUTURE
 EXISTING TO BE REMOVED OR DEMOLISHED
 CENTERLINE
 EARTH (IN SECTION)
 COMPACTED EARTH (IN SECTION)
 SLOPE ON PAVED SURFACE
 BERM SLOPE (HORZ TO VERT)

TOPOGRAPHY AND MAPPING SYMBOLS

MAJOR CONTOURS
 MINOR CONTOURS
 TOP OF SLOPE
 TOE OF SLOPE
 PROPERTY LINE
 RIGHT-OF-WAY LINE
 EASEMENT LINE
 TEMPORARY EASEMENT LINE
 TRAIL OR DIRT ROAD
 FLOW LINE
 FLOOD HAZARD AREA
 EDGE OF WETLANDS
 GUARDRAIL (PERMANENT)
 GUARDRAIL (REMOVABLE)
 VEGETATION
 WELL

GEOTECHNICAL SYMBOLS

SOIL BORING LOCATION
 TEST PIT LOCATION
 OBSERVATION HOLE
 MONITORING WELL

PIPING AND UTILITIES

UTILITIES (SINGLE LINE) SEE PIPE SCHEDULE FOR ADDITIONAL PIPING INFO

UNDERGROUND
 NATURAL GAS LINE
 WATER
 POTABLE WATER
 FIRE SUPPLY WATER LINE
 STORM DRAIN
 SANITARY SEWER
 TELEPHONE
 COMMUNICATIONS LINE
 FIBER OPTIC CABLE
 CABLE TV
 POWER
 UNIDENTIFIED UTILITY
 ABANDONED UTILITY

POWER POLE
 BURIED ACCESS MANHOLE (IN PLAN) LOCATE ON SIDE SHOWN
 BURIED ACCESS MANHOLE (IN PROFILE)
 BLOWOFF (IN PROFILE) LOCATE ON SIDE SHOWN
 BLOWOFF (IN PLAN)
 BLOWOFF (IN PROFILE)
 FIRE HYDRANT (IN PLAN)
 FIRE HYDRANT (IN PROFILE)
 MANHOLE (IN PLAN)
 MANHOLE (IN PROFILE)
 CLEANOUT TO GRADE OR PRESSURE CLEANOUT TO GRADE (IN PLAN)
 CLEANOUT TO GRADE OR PRESSURE CLEANOUT TO GRADE (IN PROFILE)
 GATE VALVE
 BUTTERFLY VALVE
 ECCENTRIC PLUG VALVE
 LUBRICATED PLUG VALVE

ROAD AND PAVING SYMBOLS

ASPHALT CEMENT PAVING
 CONCRETE PAVING (HEAVY DUTY)
 GRAVEL PAVING
 CONCRETE PAVING (LIGHT DUTY) SIDEWALKS ETC...
 CONCRETE CURB
 CONCRETE CURB AND GUTTER
 DROP INLET CATCH BASIN
 CURBSIDE DROP INLET CATCH BASIN WITH LOCAL DEPRESSION
 SIDE INLET CATCH BASIN WITH LOCAL DEPRESSION
 CONCRETE WALK
 DRIVEWAY/ACCESS RAMP

CONTROL SYMBOLS

BENCH MARK
 SITE COORDINATES (SEE TABLE ON DRAWINGS)
 SITE COORDINATES
 MONUMENT
 HORIZONTAL CONTROL POINT
 VERTICAL CONTROL POINT
 HORZ AND VERT CONTROL POINT
 FINISHED ELEVATION
 EXISTING ELEVATION
 DELTA

STRUCTURES

SITE OR RETAINING WALL
 FENCE (CHAINLINK)
 FENCE (WOOD)
 STRUCTURE
 STRUCTURE (BELOW GRADE)
 CATCH BASIN

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE: NO SCALE

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALELIO

60% DESIGN PHASE - JULY 2021

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BETA
www.BETA-Inc.com

NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec

NBC CONTRACT NO 308.04C
GENERAL CIVIL

OF 210/213/214 FACILITIES
NOTES & SYMBOLS

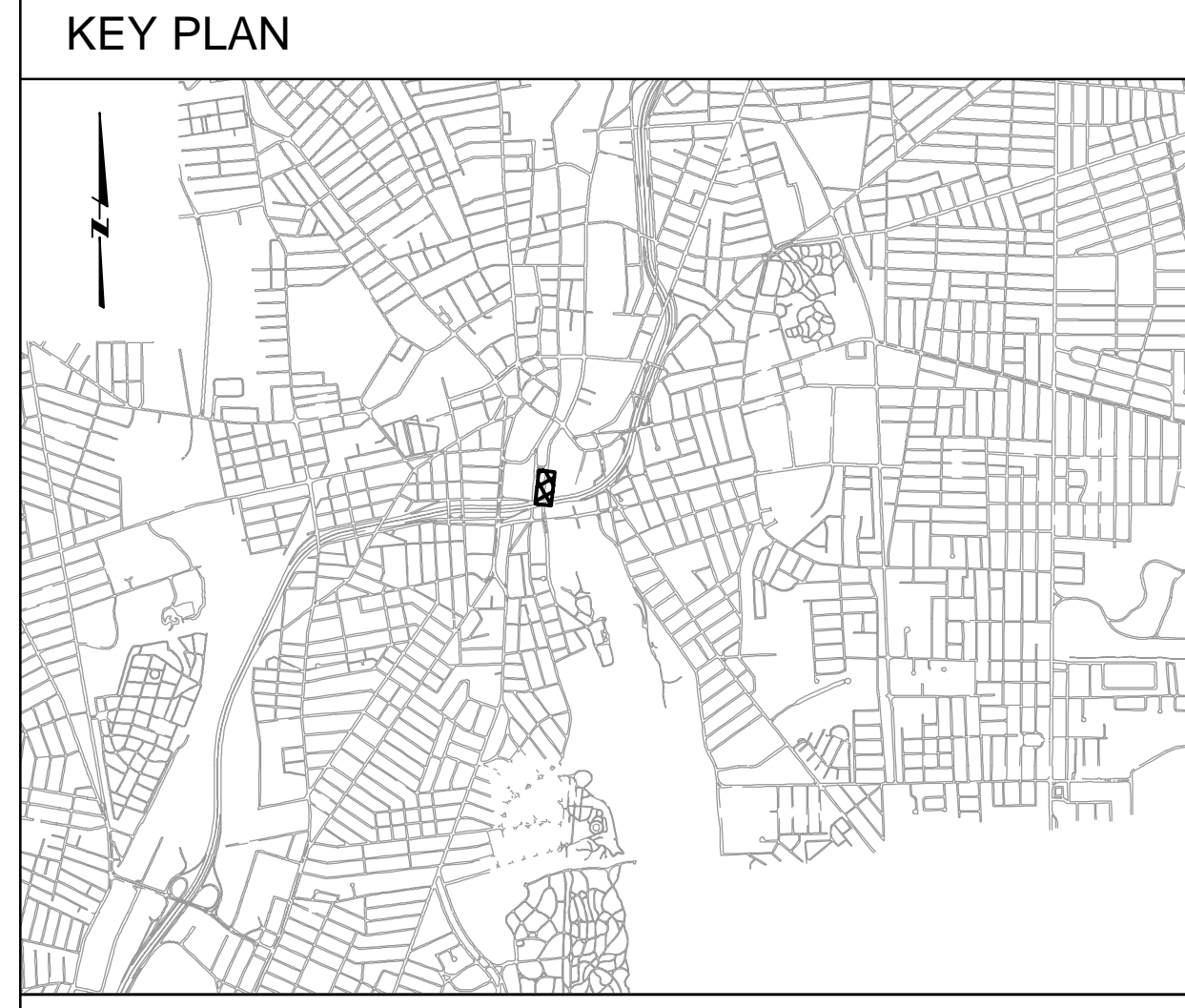
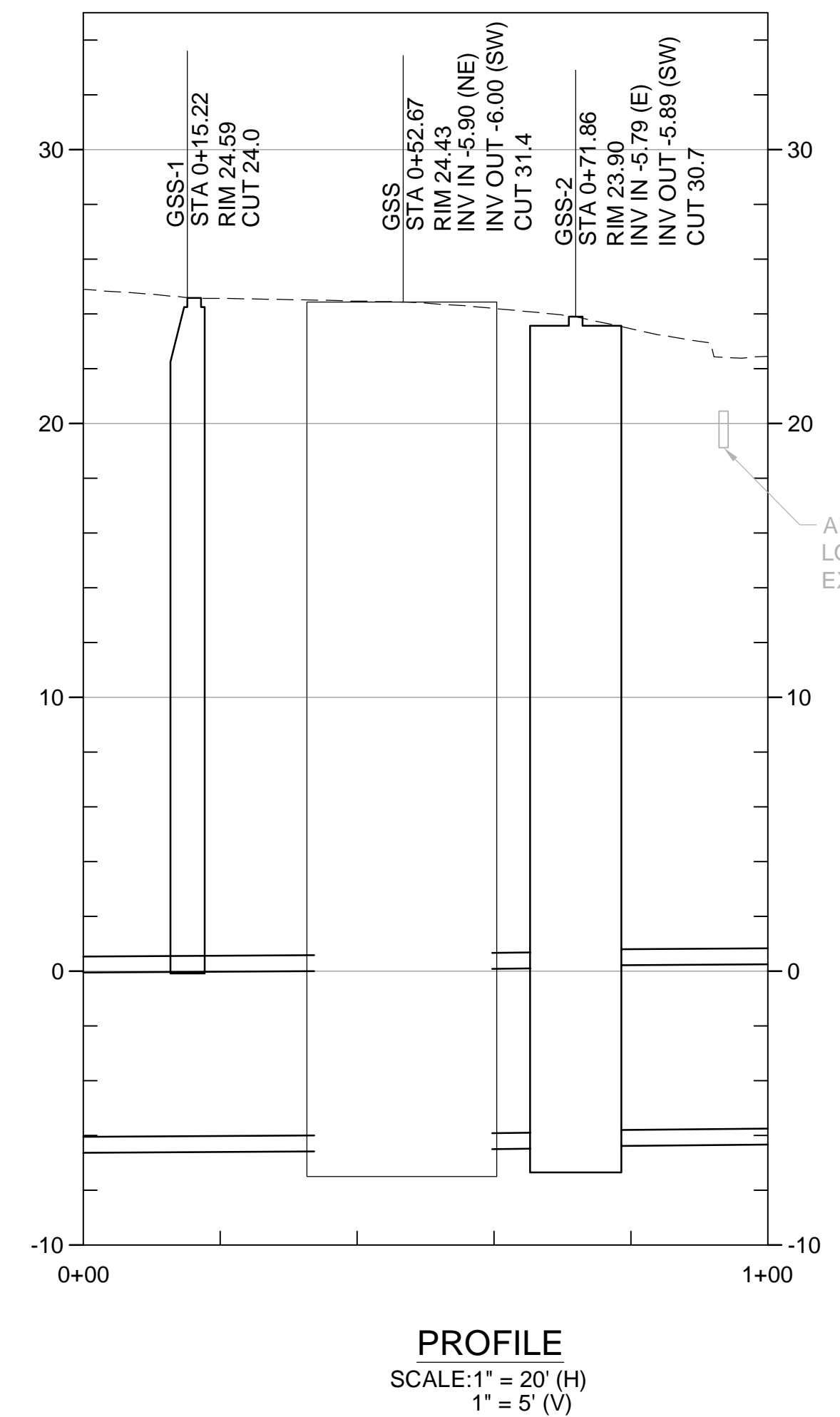
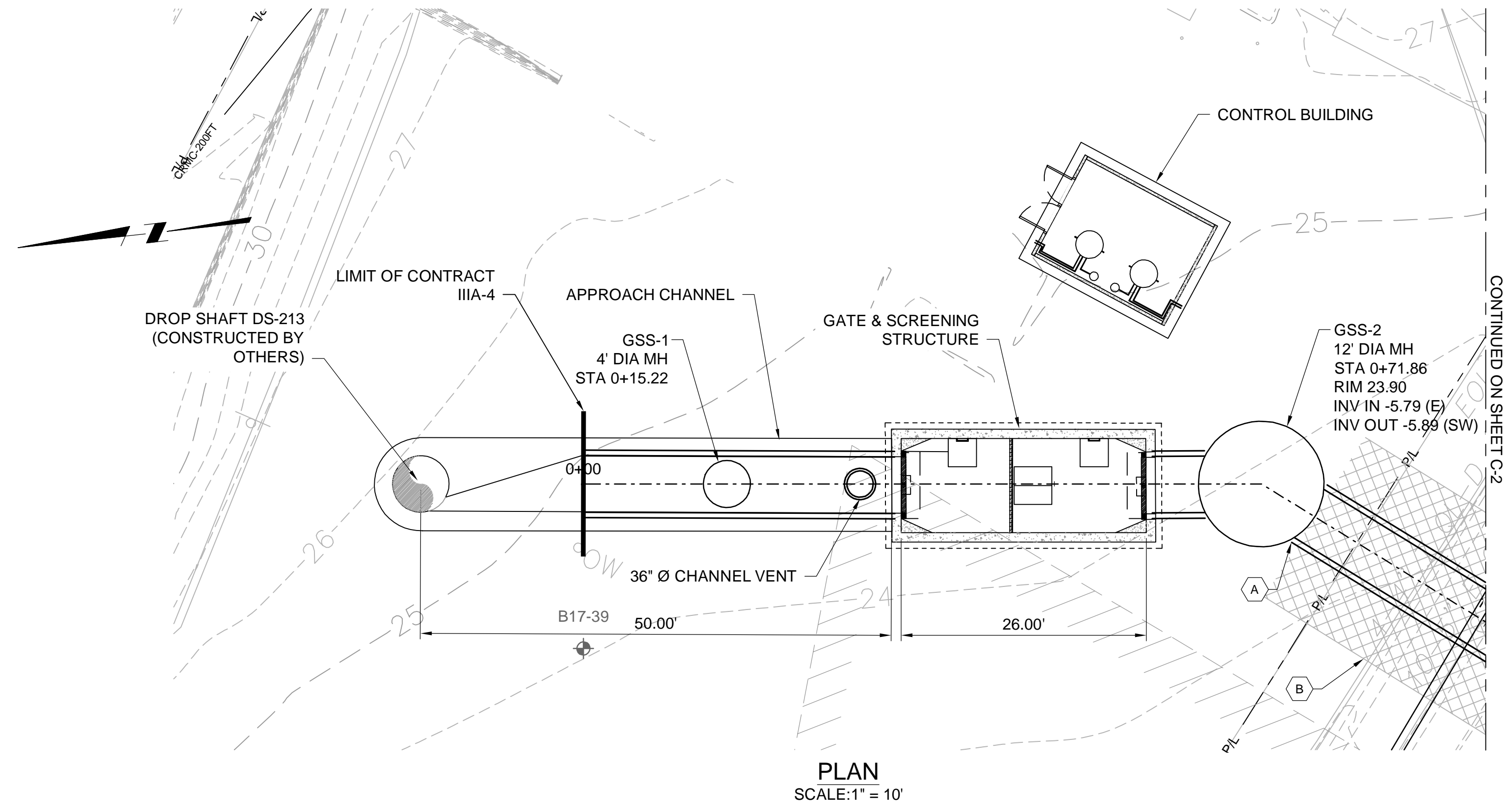
REV 050215

SHEET GC-1
195130227

BY: JAMIE PAYNE

PLOT DATE: Monday, June 21, 2021 1:39:24 PM

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- GENERAL SHEET NOTES**
- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
 - FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
 - CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
 - APPROXIMATE FOOTPRINT OF FORMER BUILDING SITE IS DEPICTED. CONCRETE, PRESUMED TO BE FORMER BUILDING FOUNDATION MATERIALS, WAS ENCOUNTERED DURING THE ADVANCEMENT OF BORING B-4, A-C, AT A DEPTH OF 8-10 FEET. MANAGEMENT, REMOVAL AND DISPOSAL OF FOUNDATION MATERIALS WILL BE REQUIRED FOR THE INSTALLATION OF THE CONSOLIDATION CONDUIT.
 - VERTICAL DATUM FOR PROJECT IS NGVD29.

- SHEET KEYNOTES**
- A. PIPE JACKING: STATION 0+72 TO STATION 1+22
 - B. AREA TO RECEIVE GROUND IMPROVEMENT - CHEMICAL INJECTION

REV	DATE	BY	DESCRIPTION
1			

SCALE AS SHOWN

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALELIO

60% DESIGN PHASE - JULY 2021

NOT FOR CONSTRUCTION

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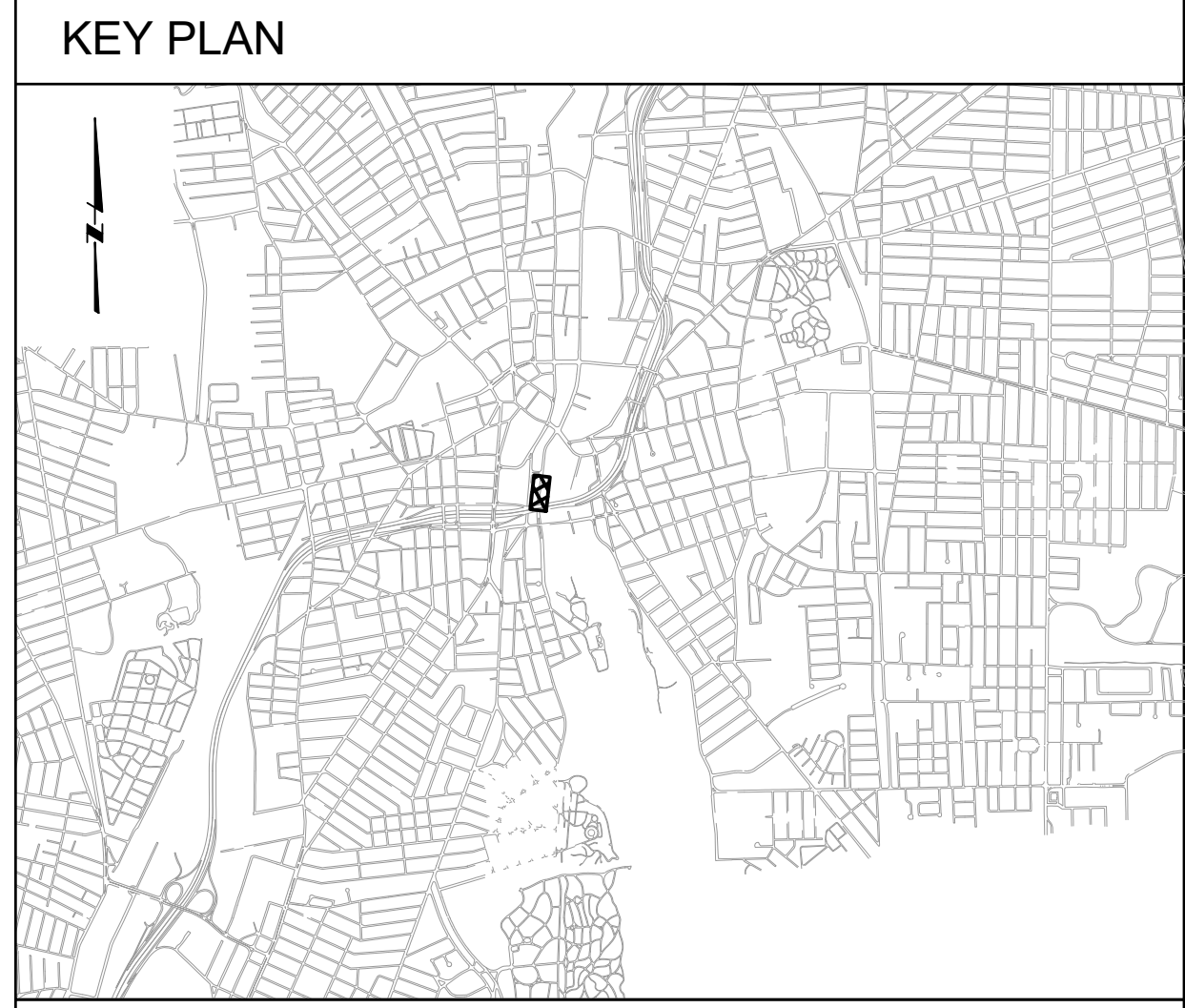
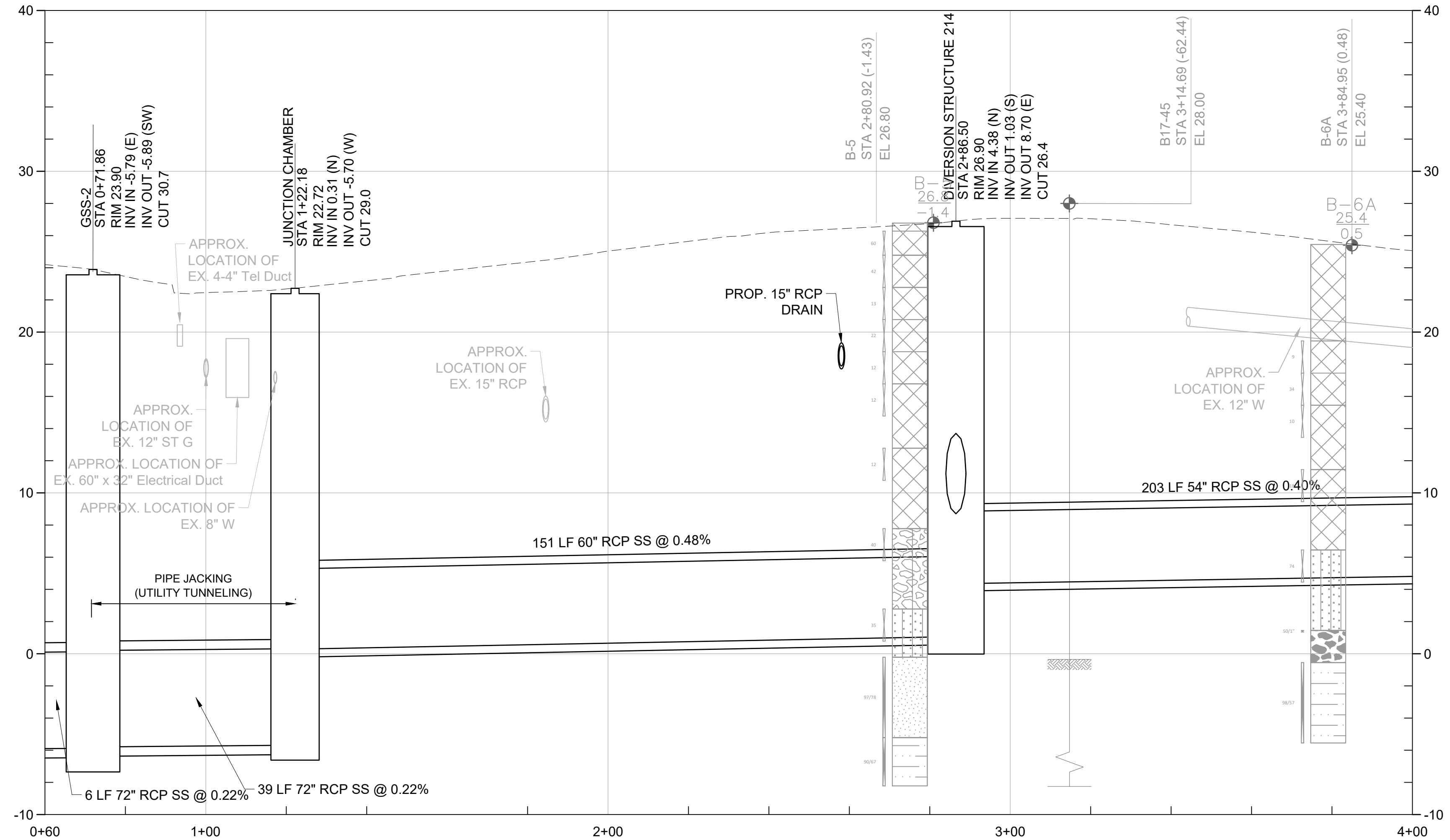
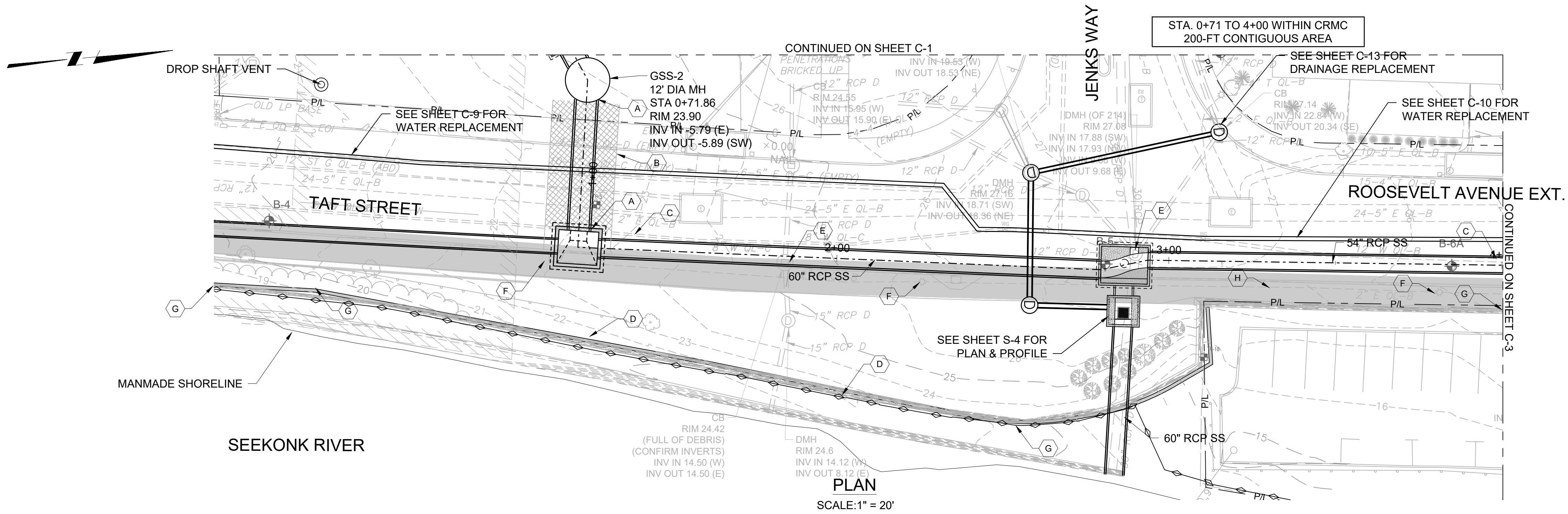
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
PLAN AND PROFILE I: STA 0+00 - 0+72

SHEET C-1
195130227

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 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
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 - APPROXIMATE FOOTPRINT OF FORMER BUILDING SITE IS DEPICTED. CONCRETE, PRESUMED TO BE FORMER BUILDING FOUNDATION MATERIALS, WAS ENCOUNTERED DURING THE ADVANCEMENT OF BORING B-4, A-C, AT A DEPTH OF 8-10 FEET. MANAGEMENT, REMOVAL AND DISPOSAL OF FOUNDATION MATERIALS WILL BE REQUIRED FOR THE INSTALLATION OF THE CONSOLIDATION CONDUIT.
 - VERTICAL DATUM FOR PROJECT IS NGVD29.

- SHEET KEYNOTES**
- A. PIPE JACKING: STATION 0+72 TO STATION 1+22
 - B. AREA TO RECEIVE GROUND IMPROVEMENT - CHEMICAL INJECTION
 - C. REMOVE AND REPLACE WATER MAIN: STATION 1+22 TO STATION 4+00
 - D. RETAINING WALL STABILIZATION - GROUT INJECTION: STATION 1+22 TO STATION 2+00
 - E. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 1+85 AND STATION 2+95
 - F. COORDINATE WITH CITY AND NATIONAL GRID TO ISOLATE, REMOVE/REPLACE ELECTRICAL LIGHT POLE: STATION 1+22
 - G. REMOVE AND REPLACE RETAINING WALL: STATION 2+50 TO STATION 4+00
 - H. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING
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DESIGNED: C. CRONIN
DRAWN: B. MARINI
CHECKED: J. D'ALESSIO

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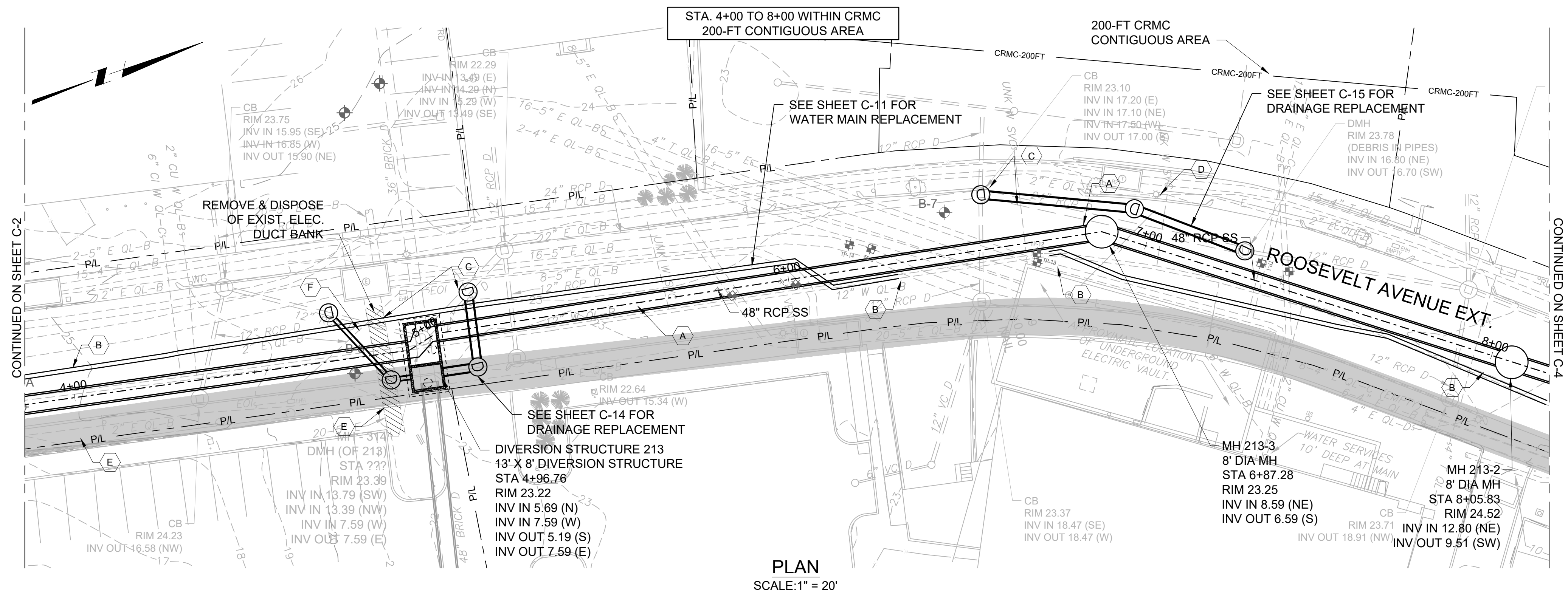


NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER OVERFLOW PROGRAM

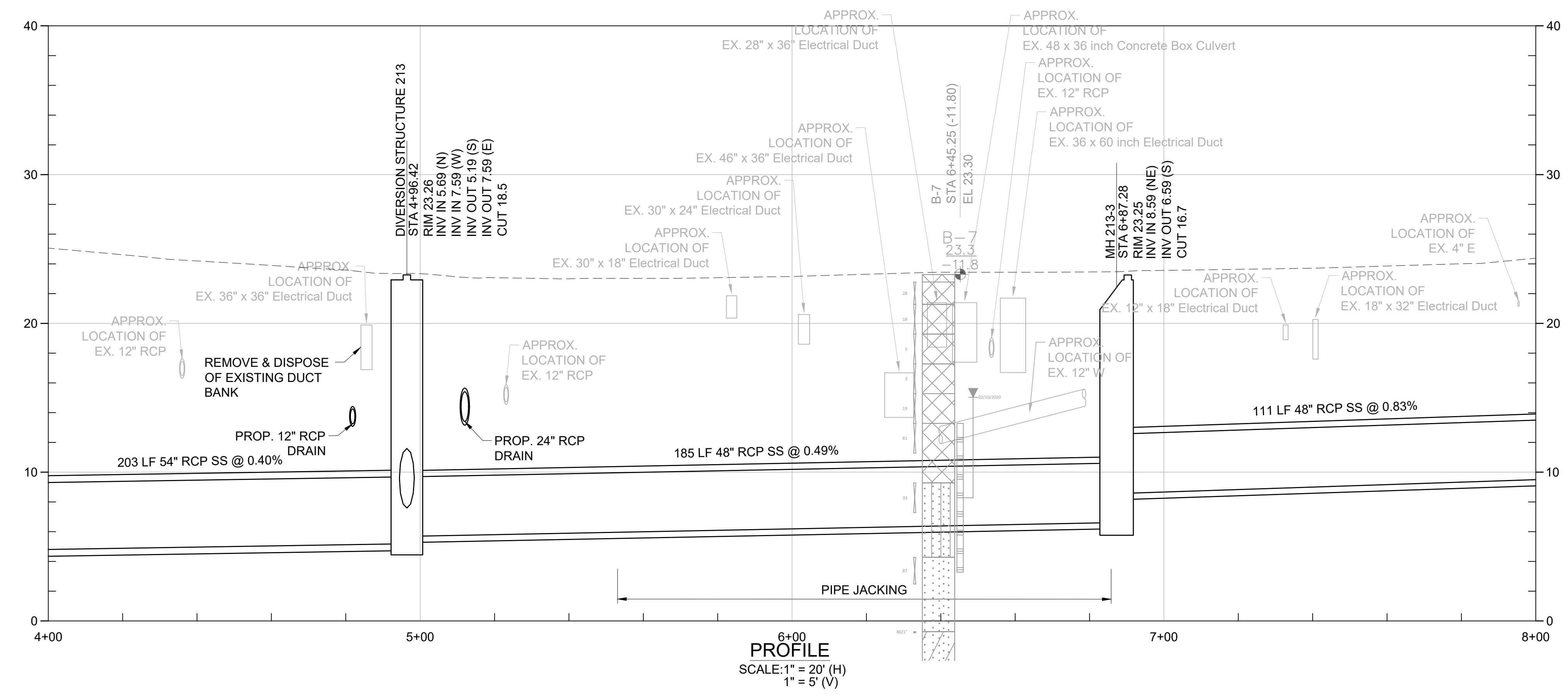
NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
PLAN AND PROFILE II: STA 0+72 - 4+00

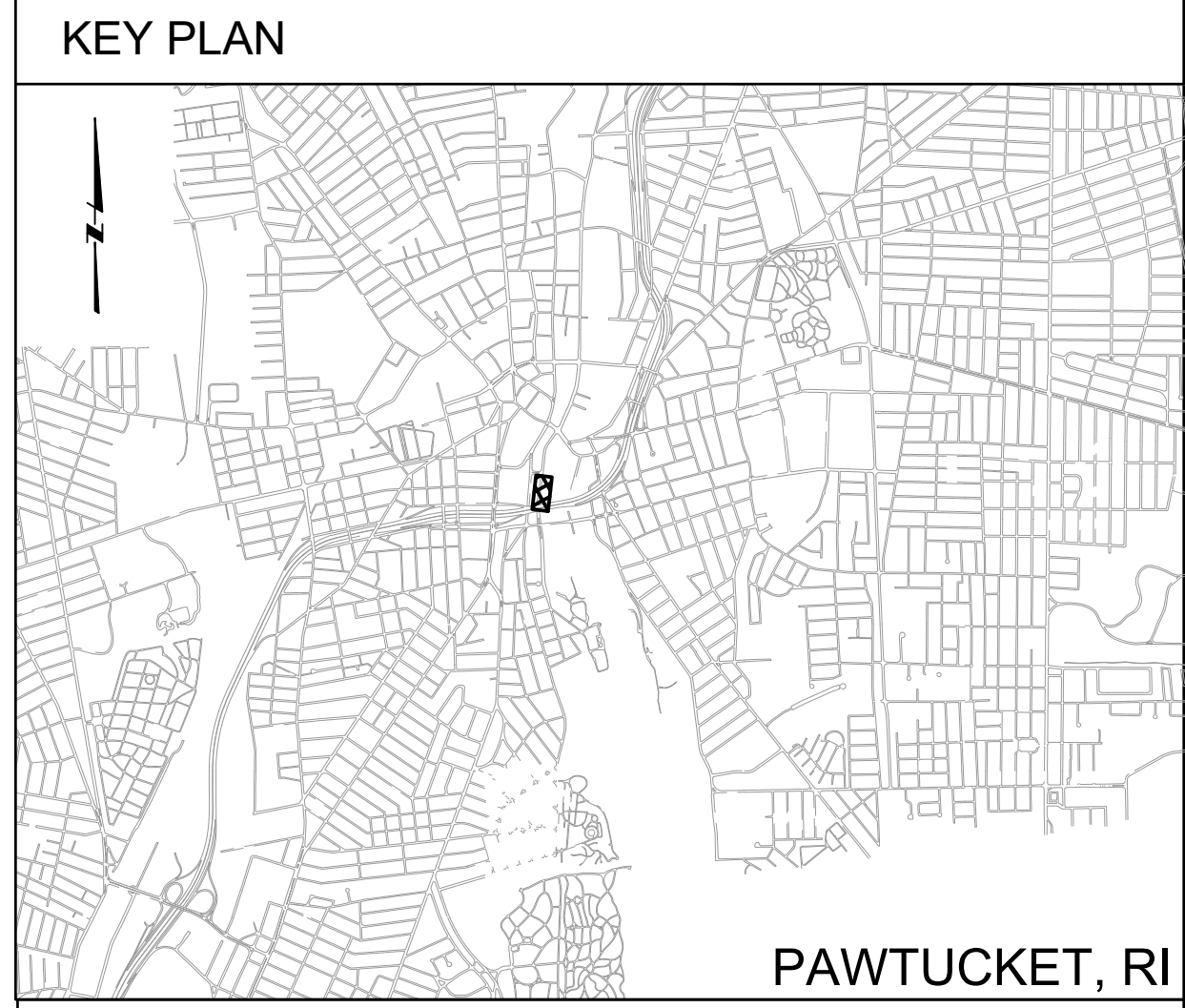
SHEET C-2
195130227



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



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 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
 - CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
 - VERTICAL DATUM FOR PROJECT IS NGVD29.

- SHEET KEYNOTES**
- A. PIPE JACKING: STATION 5+50 TO STATION 6+87
 - B. REMOVE AND RELOCATE WATER MAIN: STATION 4+00 TO STATION 6+25, STATION 6+75 TO STATION 8+00
 - C. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 4+75 TO 5+15, STATION 6+50 TO STATION 7+90
 - D. COORDINATE WITH CITY AND NATIONAL GRID TO ISOLATE AND REMOVE ELECTRICAL LIGHT POLE: STATION 7+00
 - E. REMOVE AND REPLACE RETAINING WALL: STATION 4+00 TO STATION 4+80
 - F. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING

BY: JAIMIE PAYNE

DWG FILE: J:\6412 NBC CSD Consolidation Conduits\Drawing Files\Civil\Sheet Set\PAWT_SITe_PLAN_&_PROFILE_III-4.dwg PLOT DATE: Thursday, May 20, 2021 12:10:28 PM

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED C. CRONIN
DRAWN B. MARINI
CHECKED J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

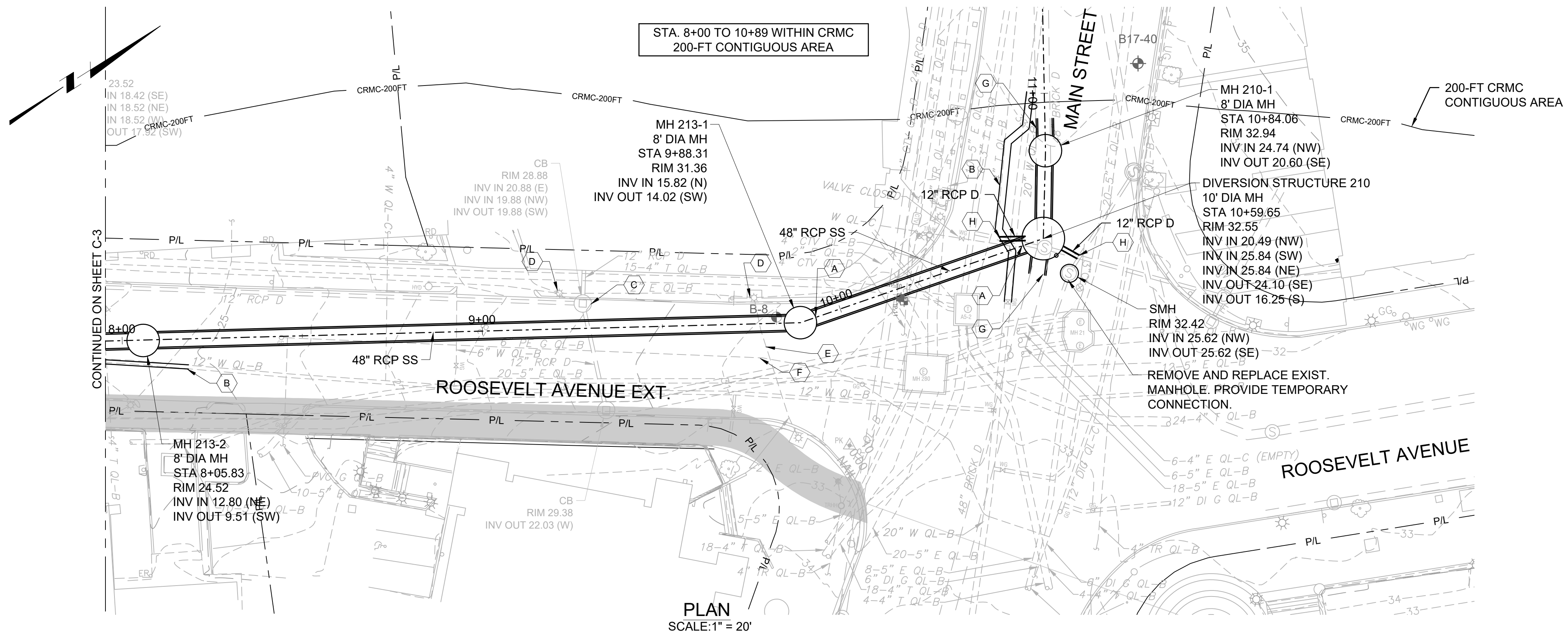
NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
PLAN AND PROFILE III: STA 4+00 - 8+00

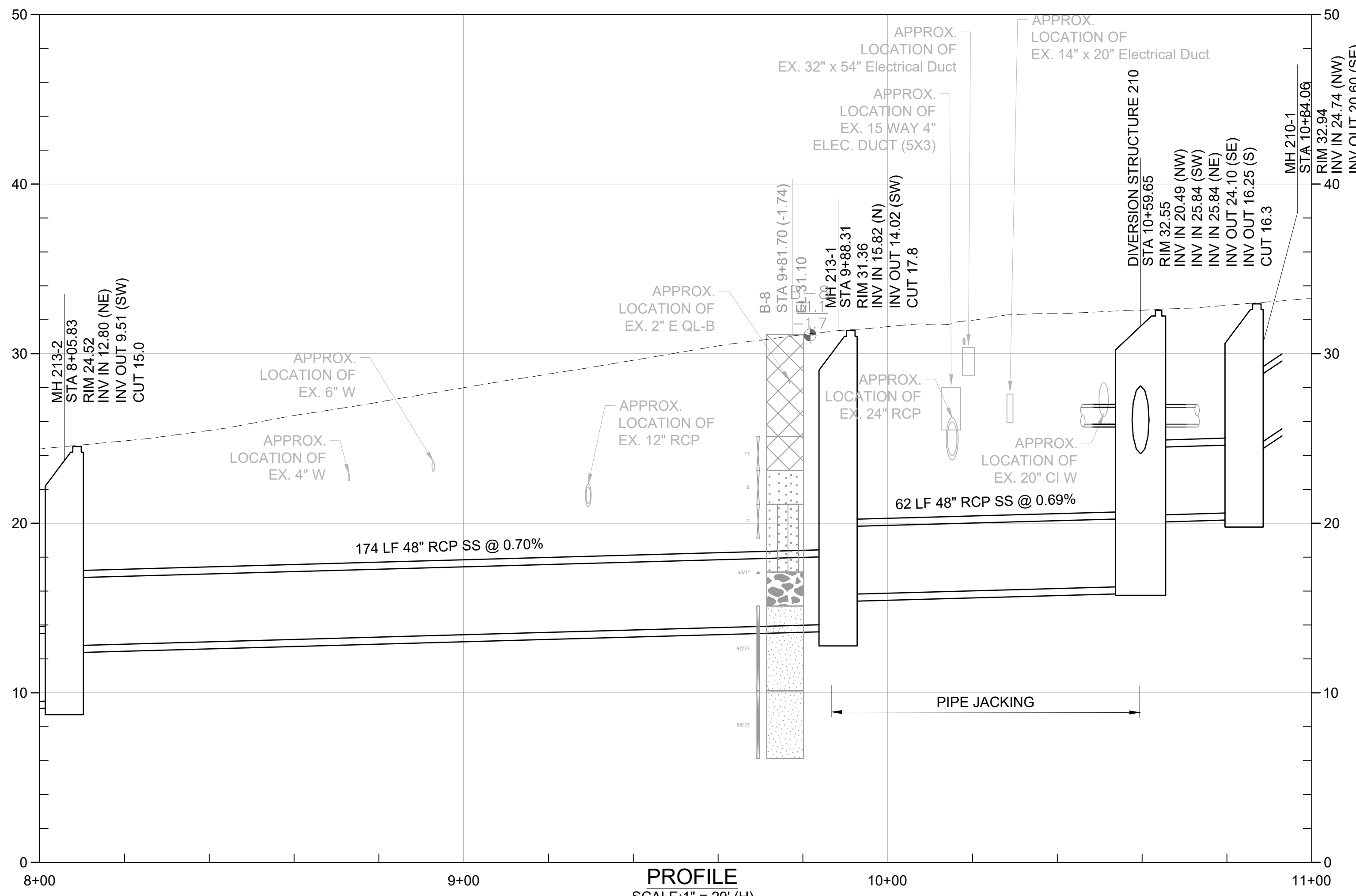
SHEET C-3
195130227

BY: JAIMIE PAYNE

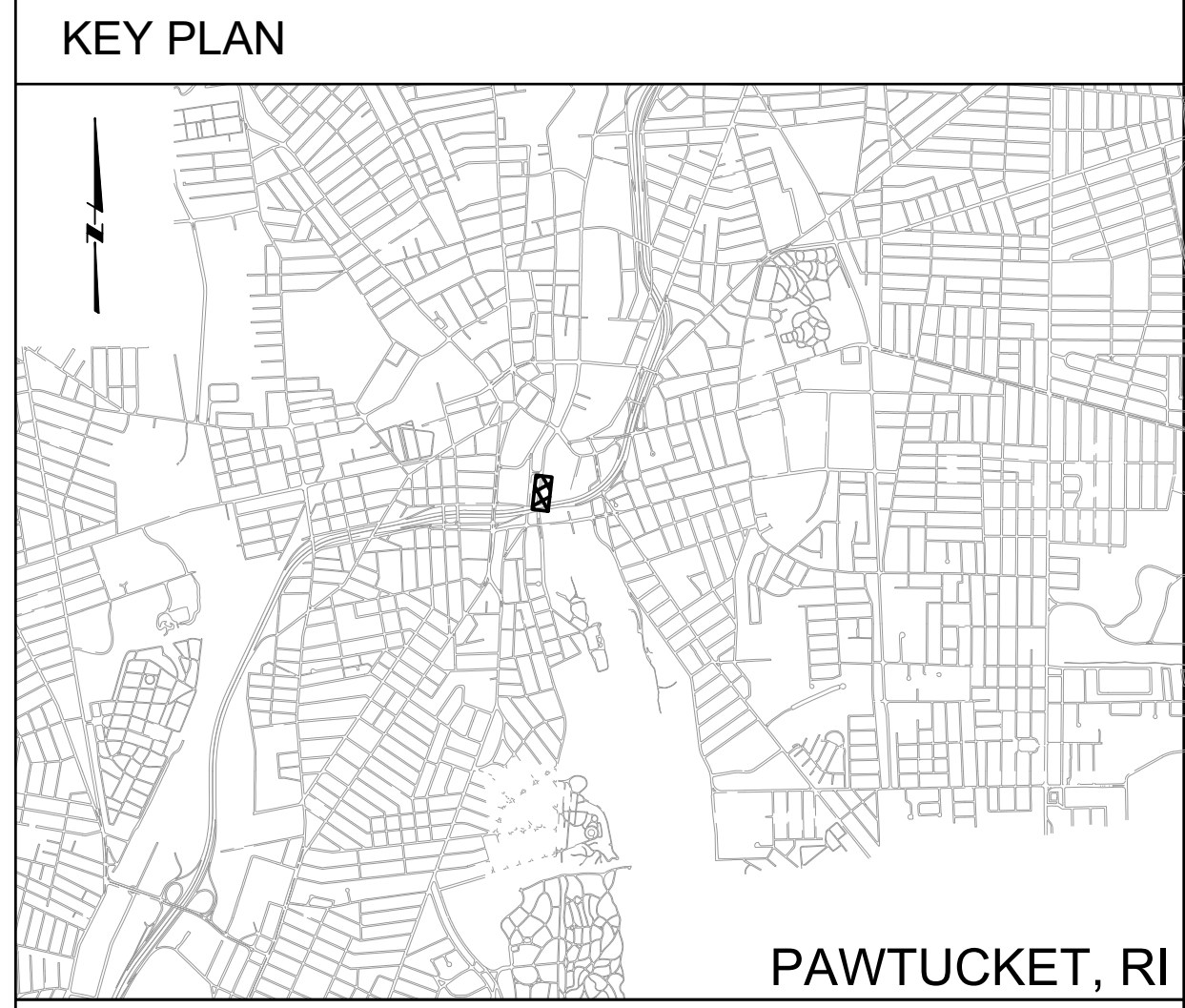
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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



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- CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
- VERTICAL DATUM FOR PROJECT IS NGVD29.

SHEET KEYNOTES

- A. PIPE JACKING: STATION 9+88 TO STATION 10+58
- B. REMOVE AND REPLACE WATER MAIN: STATION 8+00 TO 8+20, STATION 10+50. SEE SHEET C-12 FOR WATER MAIN REPLACEMENT.
- C. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 9+25
- D. COORDINATE WITH CITY AND NATIONAL GRID TO ISOLATE AND REMOVE ELECTRICAL LIGHT POLE: STATION 9+20, STATION 9+75
- E. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING
- F. RELOCATE/PROTECT GAS MAIN
- G. REMOVE AND REPLACE EXISTING 48" BRICK PIPE WITH 5 LF OF 48" RCP PIPE. CONNECT NEW 48" PIPE TO EXISTING 48" BRICK PIPE AS SHOWN IN DETAIL C-109.
- H. CONNECT TO EXISTING PIPE AS SHOWN IN DETAIL C-XXX.

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	B. MARINI
DRAWN	C. DIAS
CHECKED	J. D'ALELIO

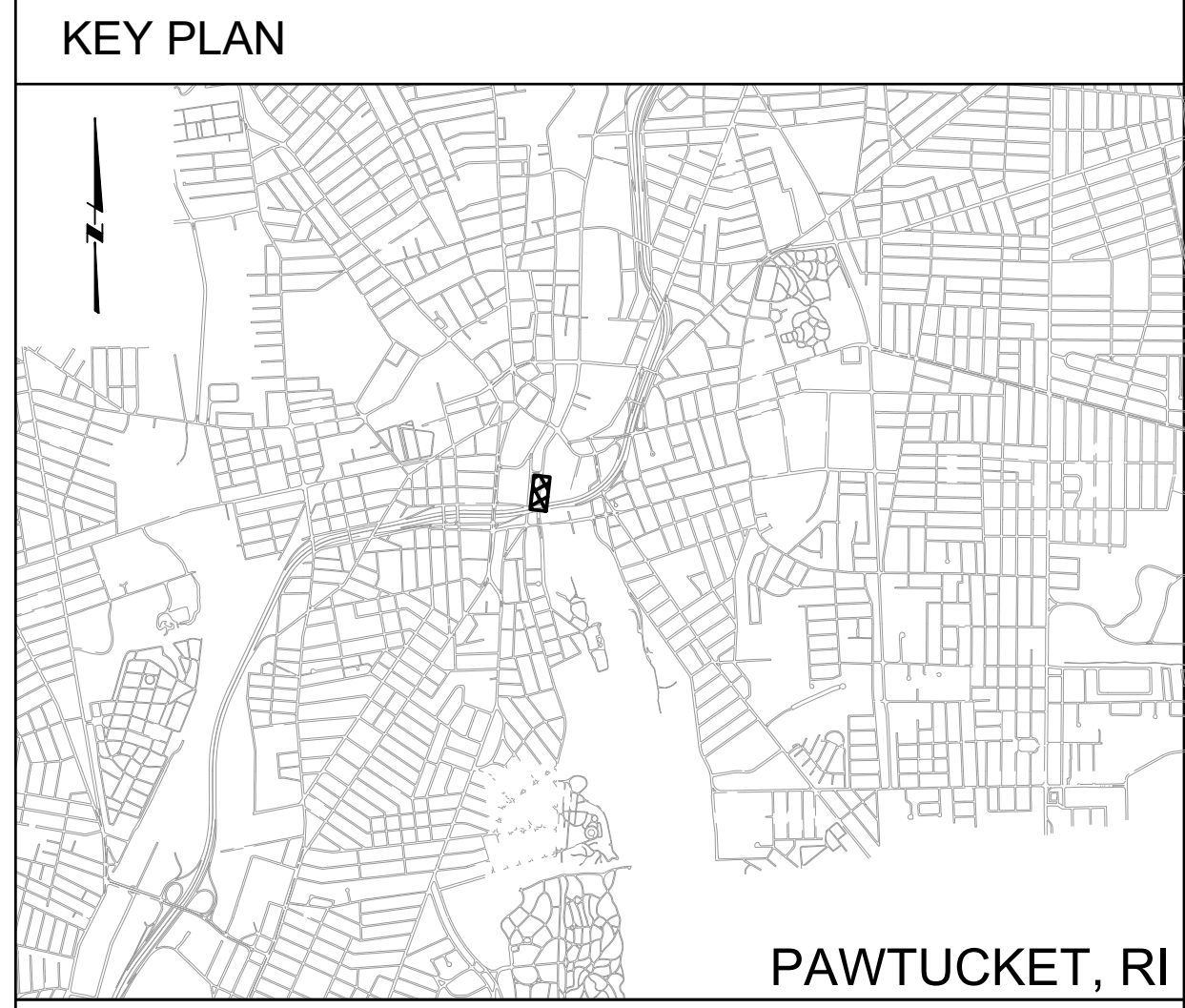
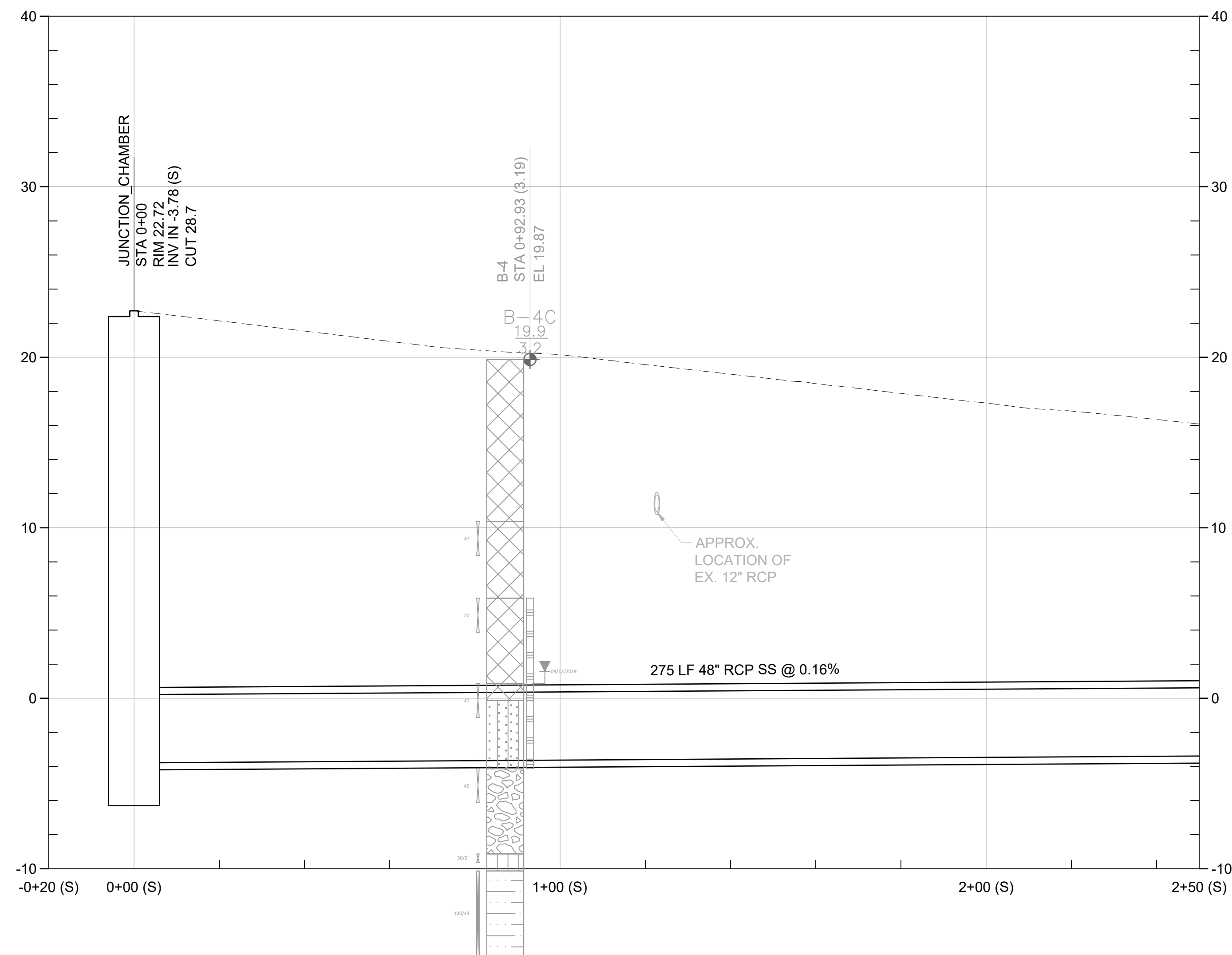
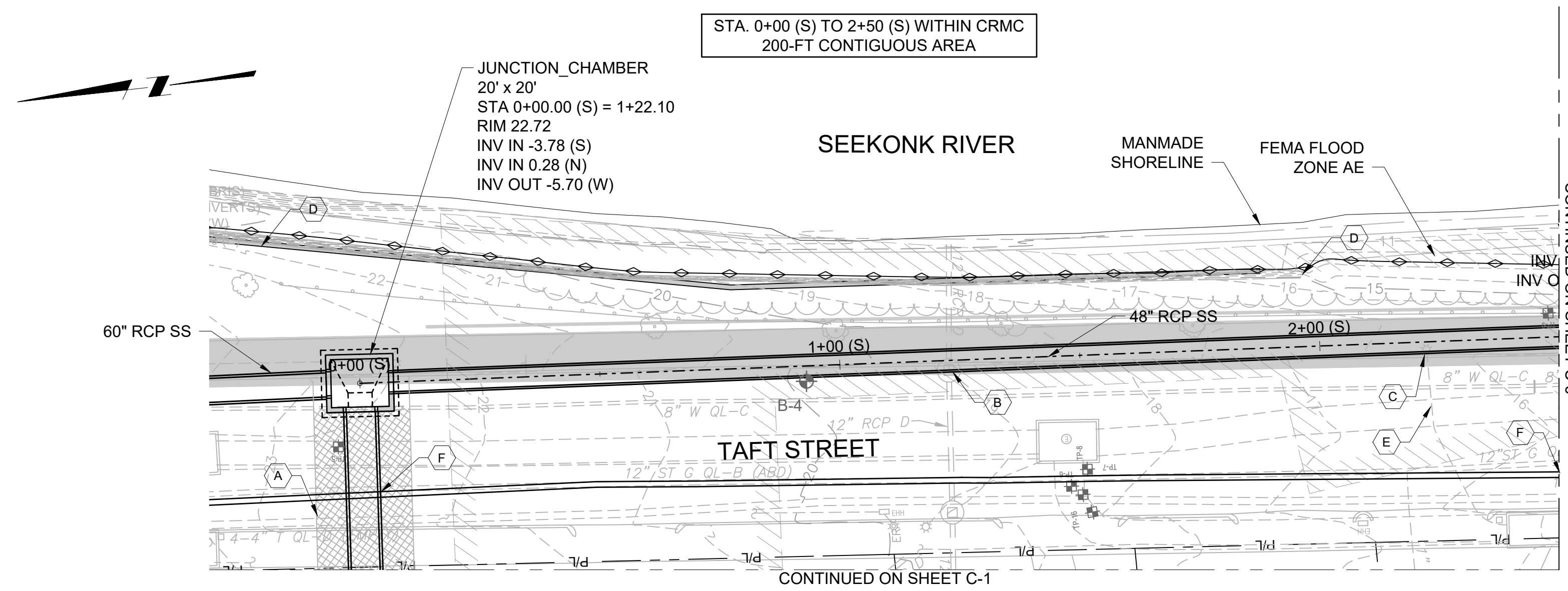
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- GENERAL SHEET NOTES**
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 - VERTICAL DATUM FOR PROJECT IS NGVD29.

- SHEET KEYNOTES**
- A. AREA TO RECEIVE GROUND IMPROVEMENT - CHEMICAL INJECTION
 - B. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 1+25 (S)
 - C. COORDINATE WITH CITY AND NATIONAL GRID TO ISOLATE AND REMOVE ELECTRIC LIGHT POLE: STATION 2+22 (S)
 - D. REMOVE & REPLACE RETAINING WALL FROM STATION -0+20 (S) TO STATION 1+96 (S)
 - E. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING
 - F. REMOVE AND DISPOSE OF ABANDONED GAS MAIN: STATION 0+00 TO 2+50

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING
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DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

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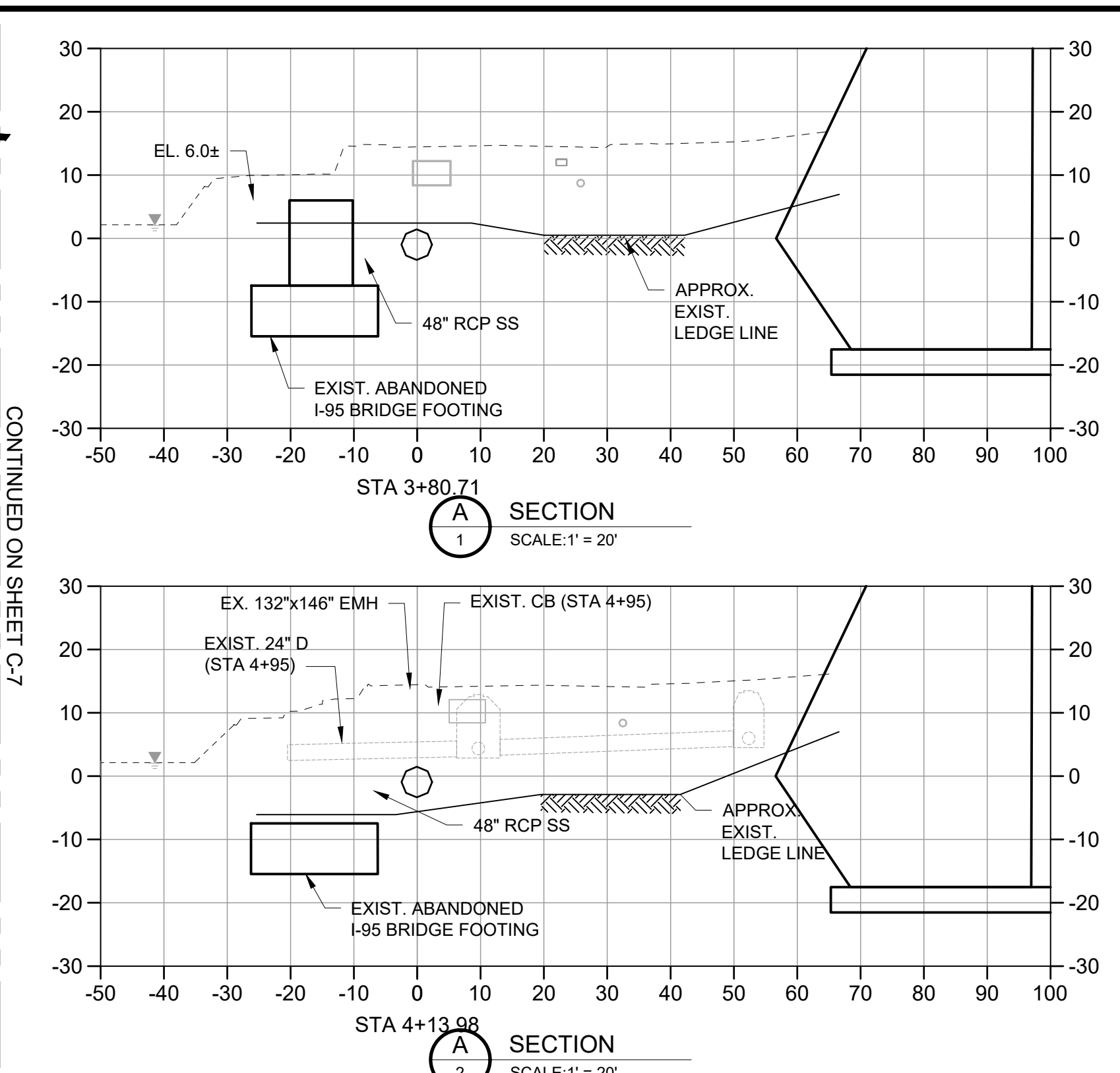
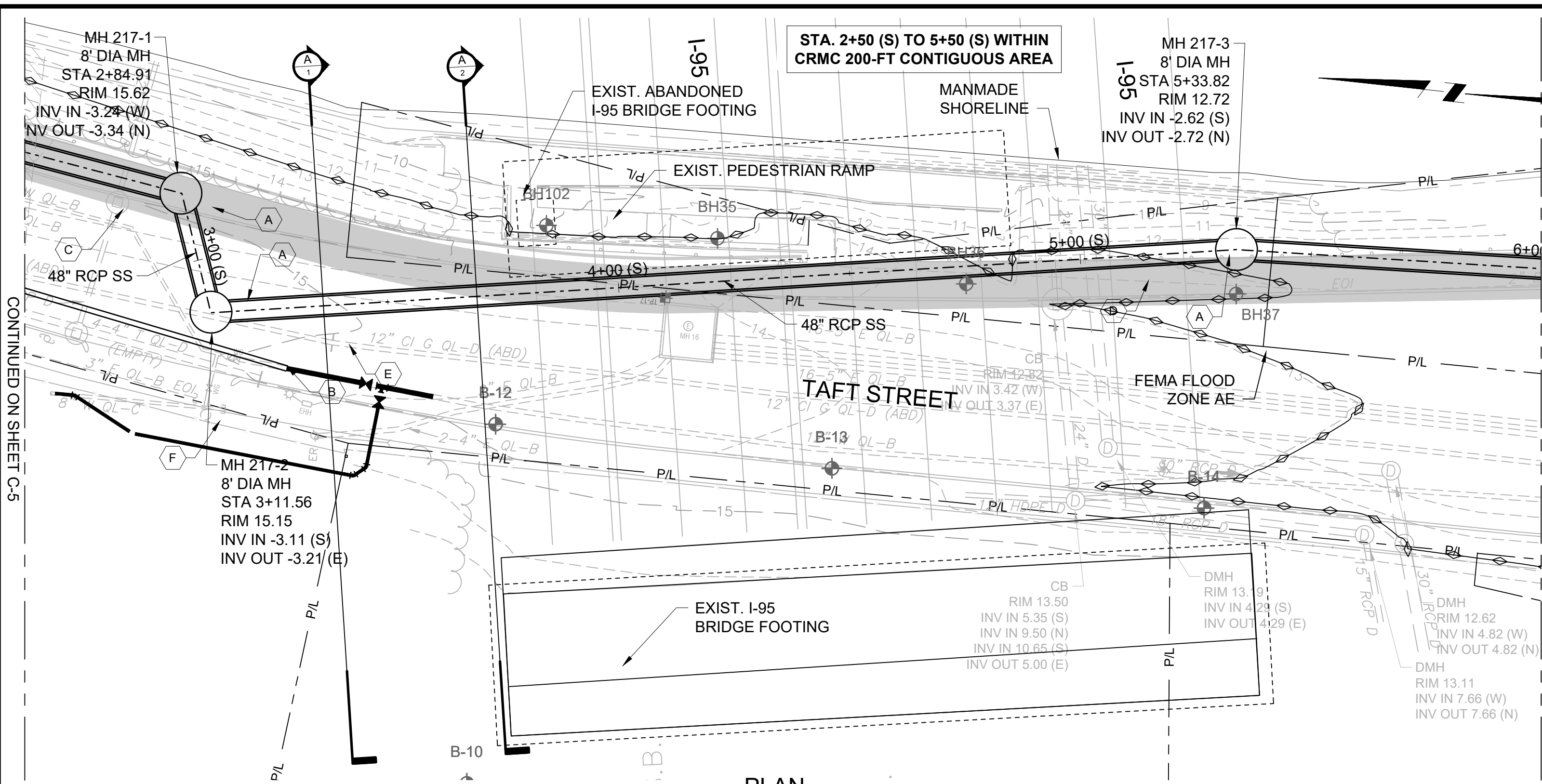
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
CIVIL

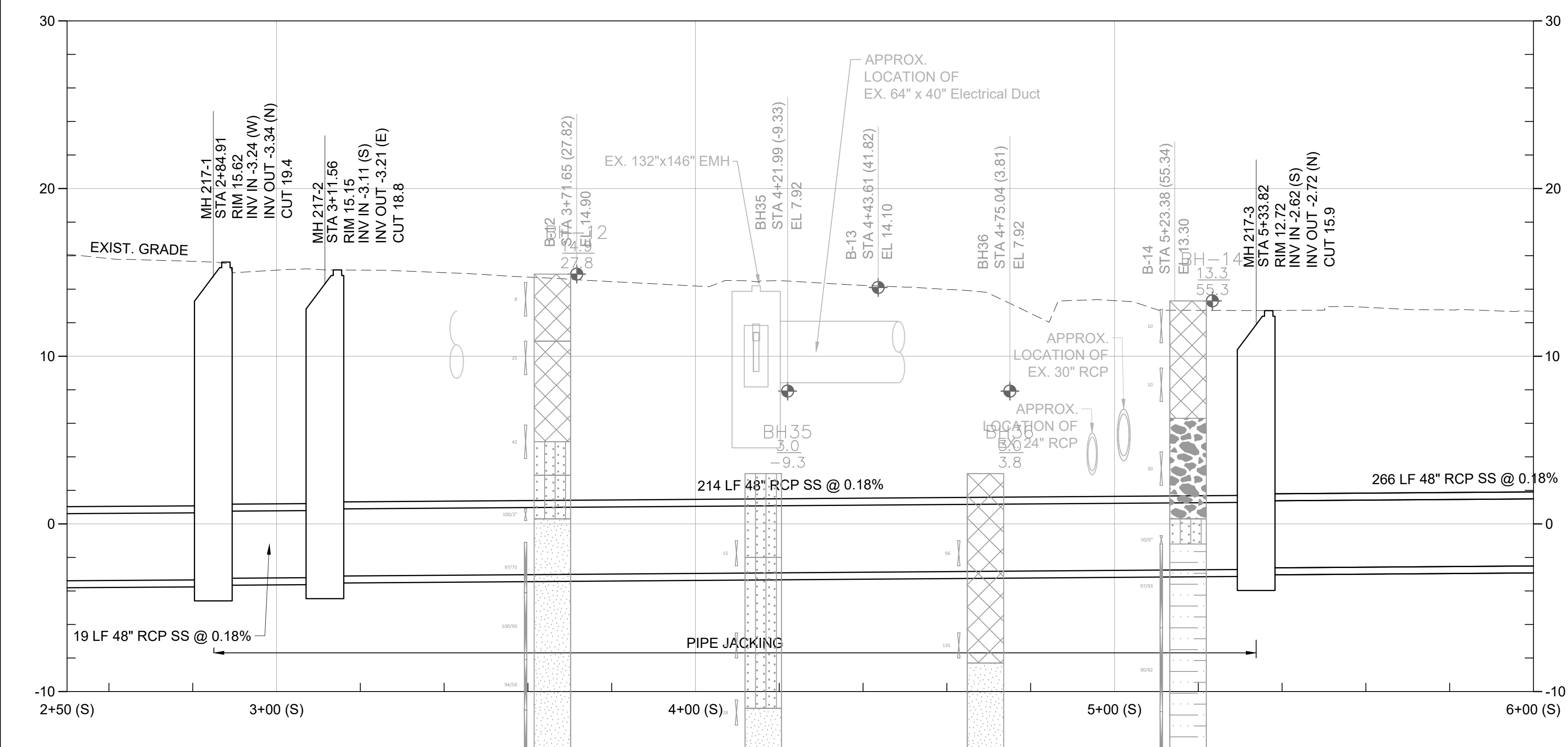
OF 210/213/214 FACILITIES
PLAN AND PROFILE V: STA 0+00 (S) - 2+50 (S)

SHEET C-5
195130227

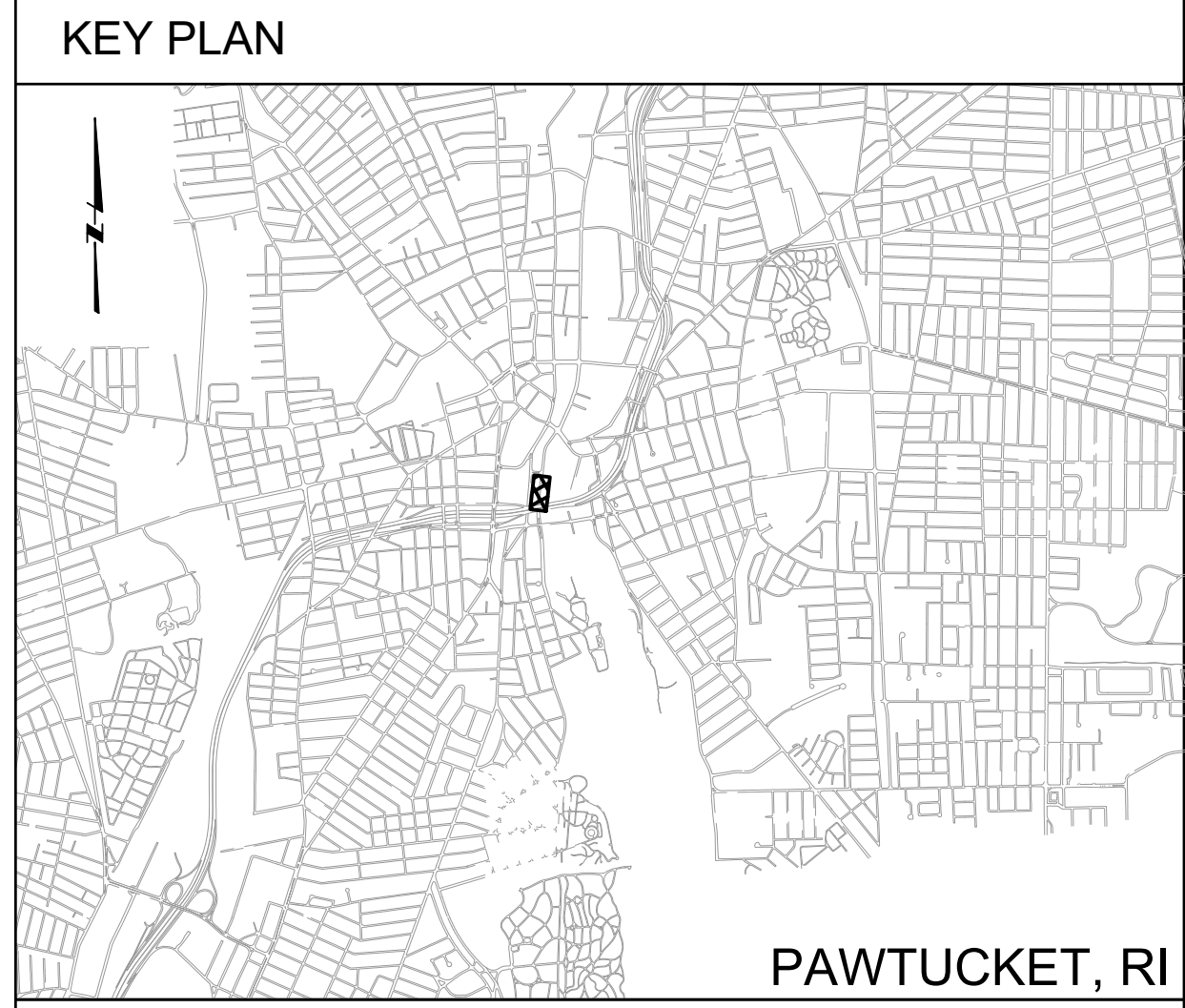
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PLAN SCALE: 1" = 20'



PROFILE SCALE: 1" = 20' (H)
1" = 5' (V)



- GENERAL SHEET NOTES**
- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
 - FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
 - CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
 - VERTICAL DATUM FOR PROJECT IS NGVD29.

- SHEET KEYNOTES**
- A. PIPE JACKING: STATION 2+84 (S) TO STATION 5+27 (S)
 - B. RELOCATE WATER MAIN: STATION 2+50 (S) TO STATION 3+60 (S)
 - C. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 3+75 (S)
 - D. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING
 - E. REMOVE AND DISPOSE ABANDONED GAS MAIN: STATION 2+50 (S) TO STATION 3+60 (S)
 - F. COORDINATE WITH NATIONAL GRID FOR INSTALLATION OF TEMPORARY POLE & REROUTING OF OVERHEAD WIRE

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

NOT FOR CONSTRUCTION

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

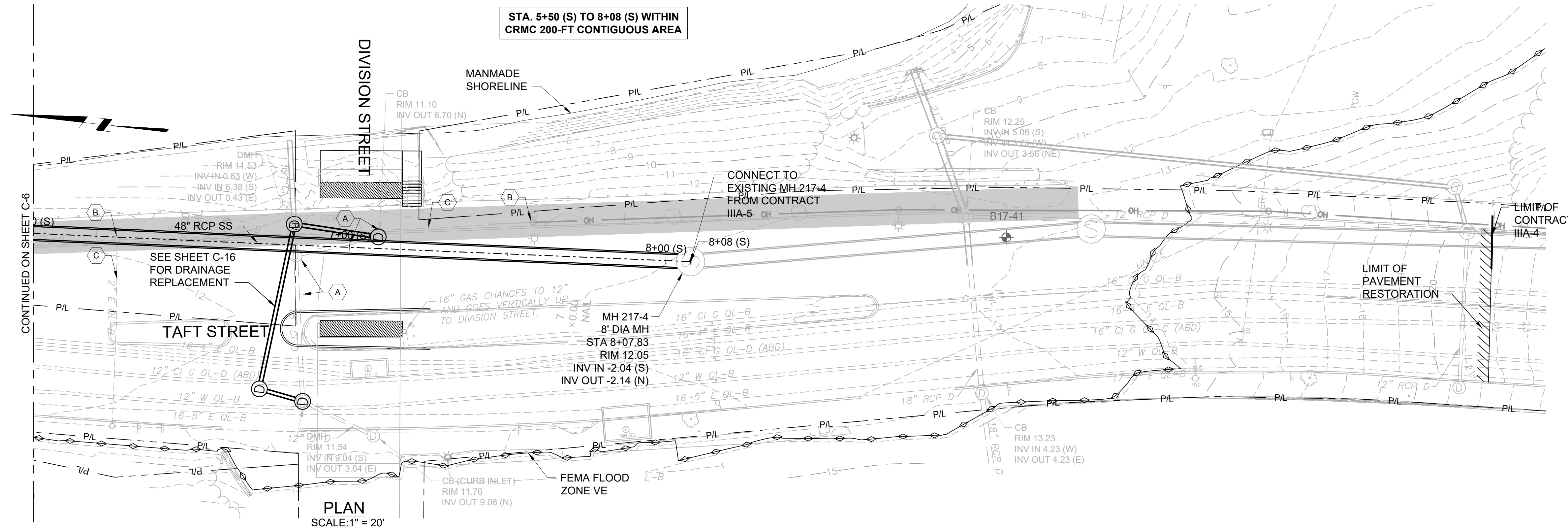
NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
PLAN AND PROFILE VI: STA 2+50 (S) - 6+00 (S)

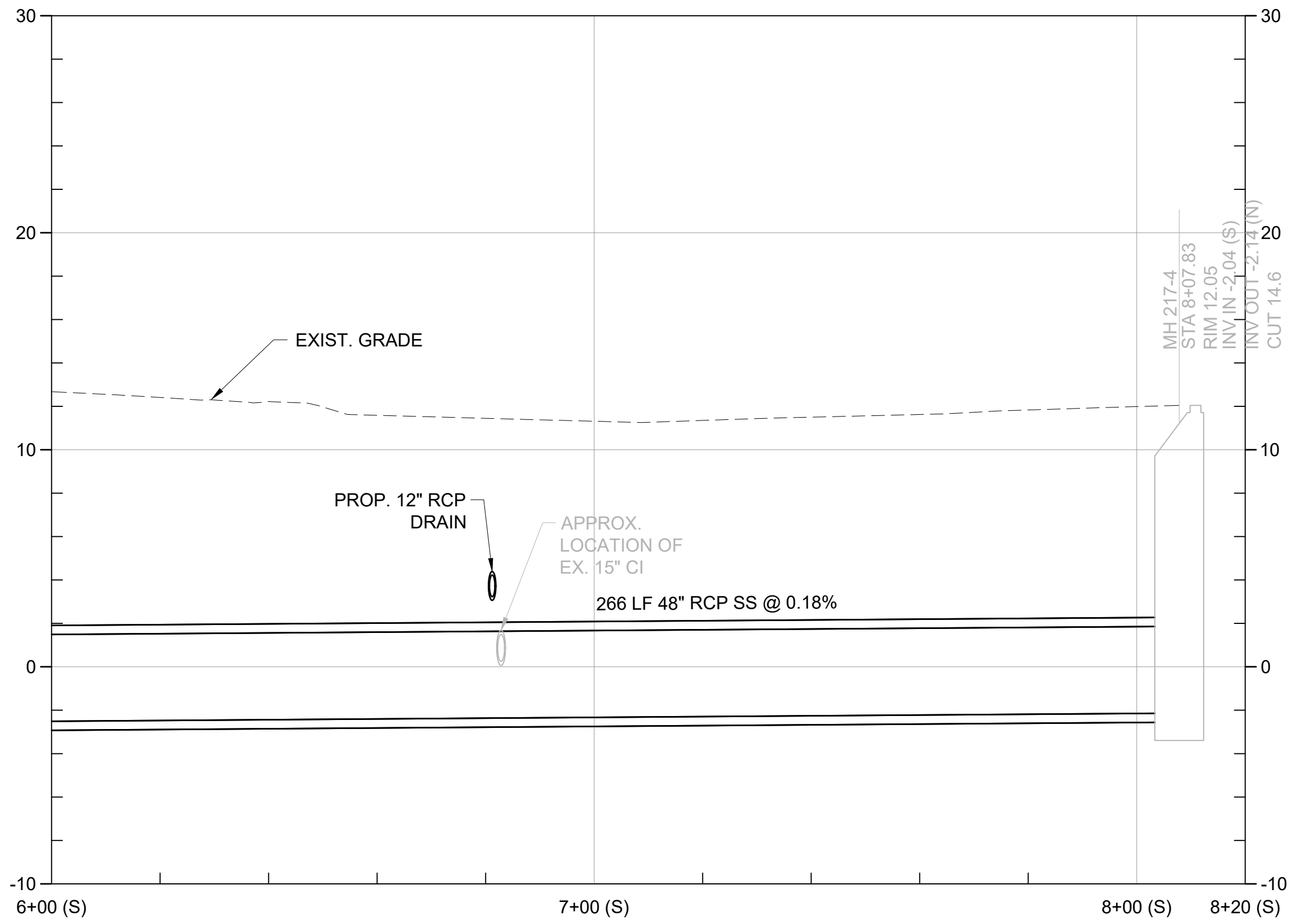
SHEET C-6
195130227

BY: JAIMIE PAYNE

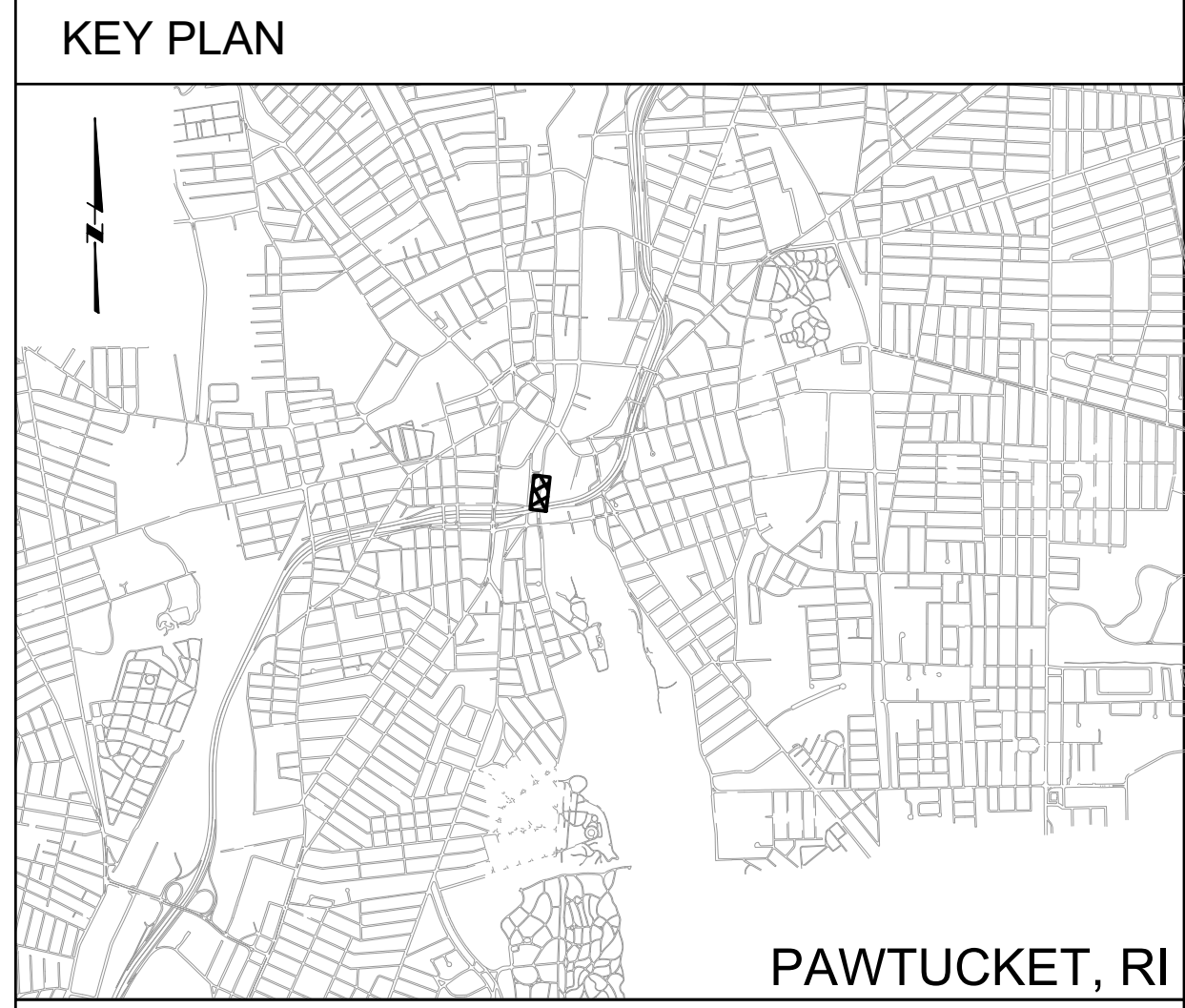
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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



GENERAL SHEET NOTES

- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
- FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
- CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
- VERTICAL DATUM FOR PROJECT IS NGVD29.

SHEET KEYNOTES

- A. REMOVE AND REPLACE DRAIN AND CATCH BASIN FOR INSTALLATION OF CONSOLIDATION CONDUIT: STATION 6+80 (S) TO STATION 7+10 (S).
- B. COORDINATE WITH CITY AND NATIONAL GRID TO ISOLATE AND REMOVE ELECTRIC LIGHT POLE: STATION 6+30 (S), STATION 7+55 (S)
- C. REMOVE AND REPLACE ELECTRICAL CONDUIT & WIRING FOR STREET LIGHTING

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

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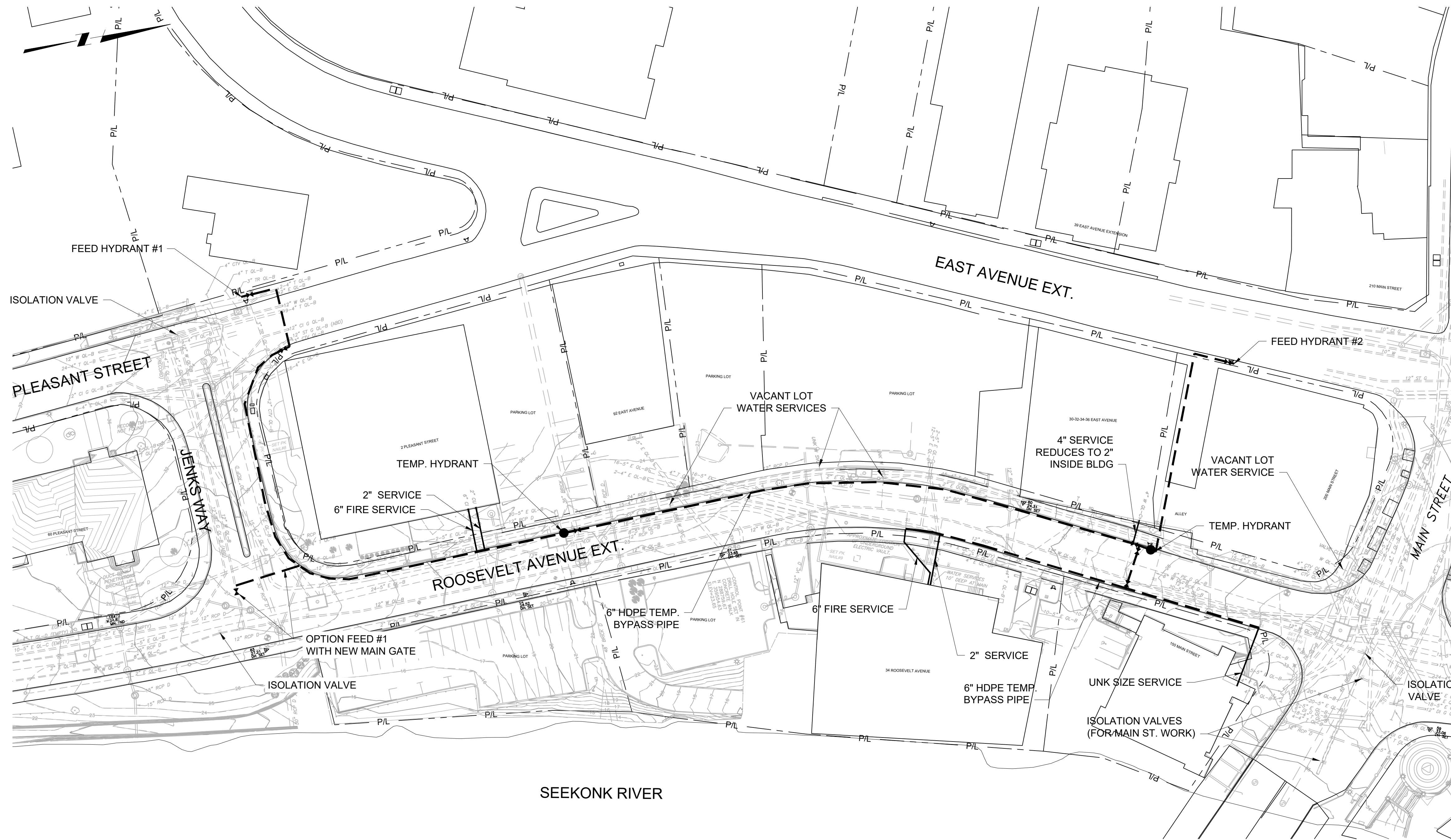
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
CIVIL

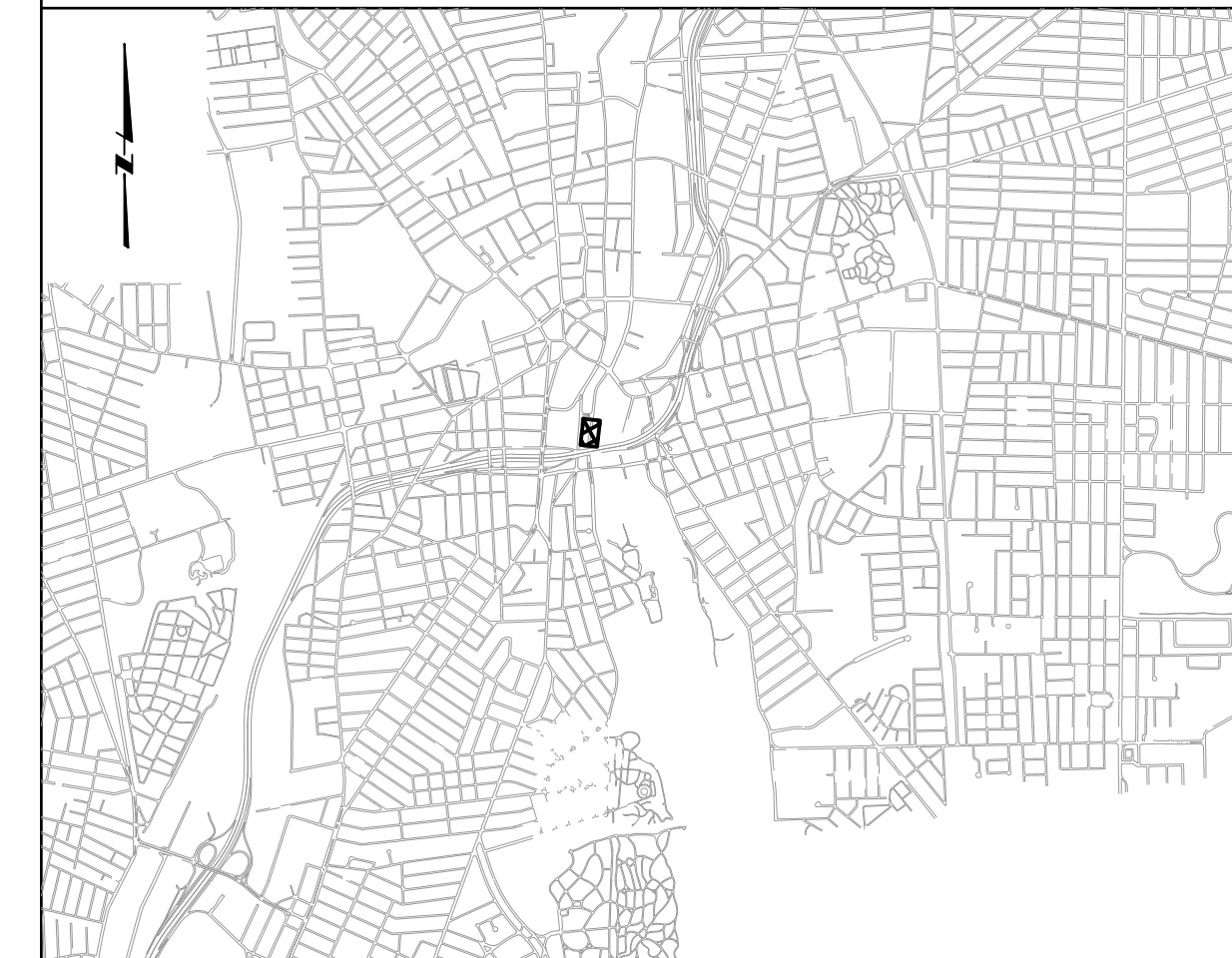
OF 210/213/214 FACILITIES
PLAN AND PROFILE VII: STA 6+00 (S) - 8+08(S)

SHEET
C-7
195130227

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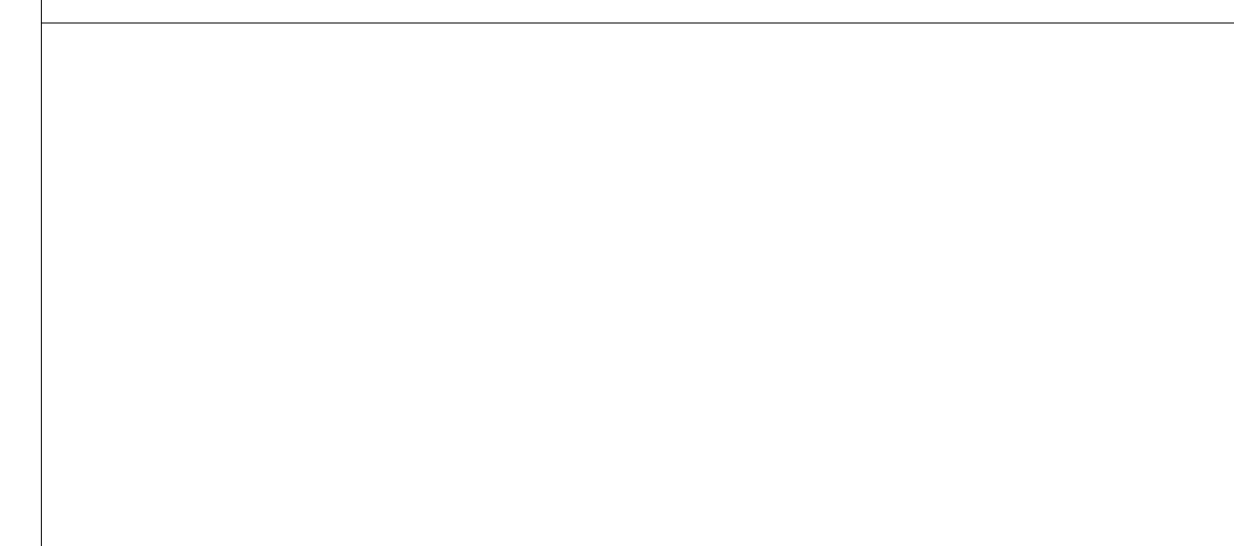
KEY PLAN



GENERAL SHEET NOTES

1. UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
2. HDPE TEMPORARY BYPASS PIPING SHALL BE INSTALLED IN THE GUTTER AND SHALL BE TRENCHED, BURIED AND PAVED AT EVERY ROAD CROSSING, SIDEWALK CROSSING AND DRIVEWAY CROSSING
3. TEMPORARY HYDRANTS SHALL BE INSTALLED AT LOCATIONS WHERE EXISTING HYDRANTS ARE BEING TAKEN OUT OF SERVICE
4. VALVES SHALL BE INSTALLED ON BYPASS ON EACH SIDE OF ROAD CROSSINGS, AT EACH TEMPORARY HYDRANT AND EVERY 400 FEET ALONG BYPASS. EXISTING OUT-OF-SERVICE HYDRANTS SHALL BE BAGGED.
5. TEST EXISTING WATER MAIN VALVES PRIOR TO CONSTRUCTION TO ENSURE PROPER SHUTDOWN OF WATER DURING CONSTRUCTION
6. TEST EXISTING HYDRANTS TO BE USED FOR TEMPORARY BYPASS TO ENSURE PROPER FUNCTION
7. UPON ACTIVATION OF TEMP. BYPASS SYSTEM, COORDINATE WITH PAWTUCKET FIRE DEPARTMENT TO DEMONSTRATE TEMP. HYDRANT FUNCTIONALITY AND PROVIDE TOOLS TO OPERATE.
8. ALL FEEDS TO BYPASS REQUIRE A BACKFLOW PREVENTION DEVICE.

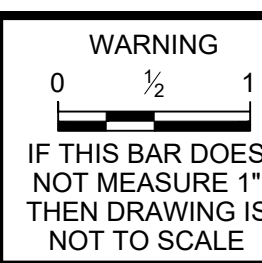
SHEET KEYNOTES



SEEKONK RIVER

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

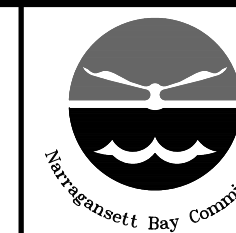
SCALE
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DESIGNED R.GREENWAY
DRAWN R.GREENWAY
CHECKED C.CRONIN

90% DESIGN PHASE - APRIL 2021

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

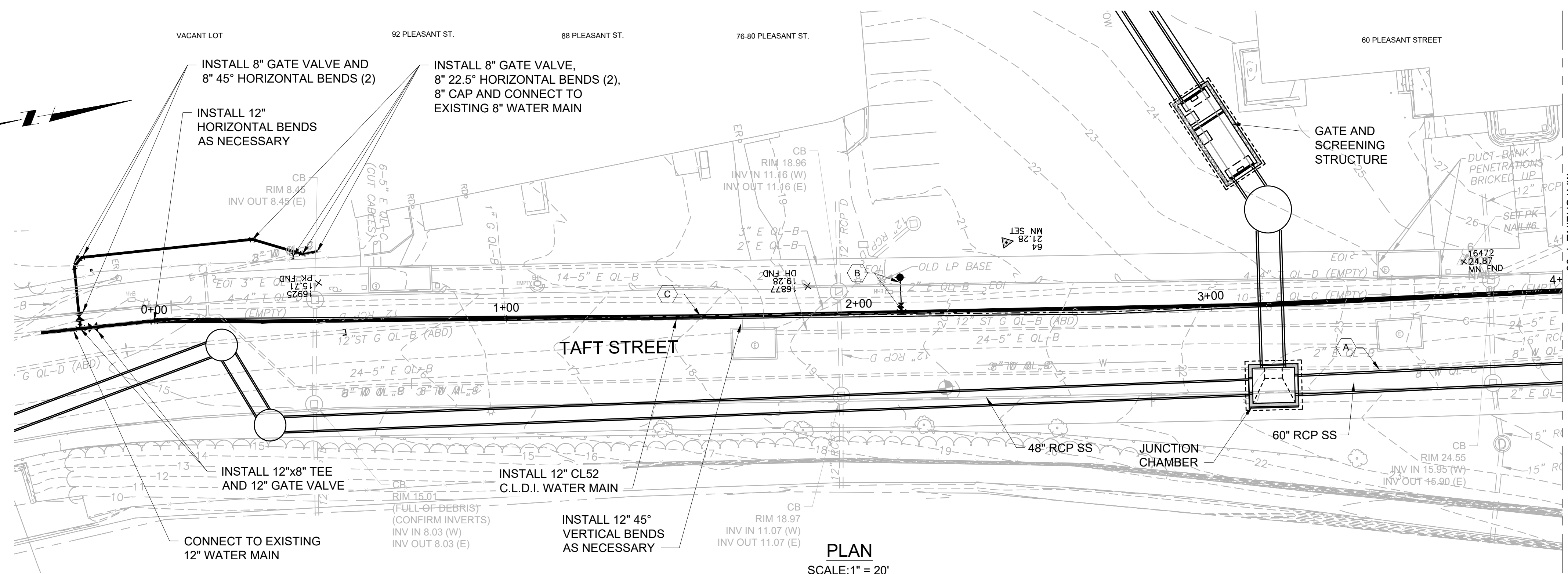


NBC CONTRACT NO 308.05C
CIVIL

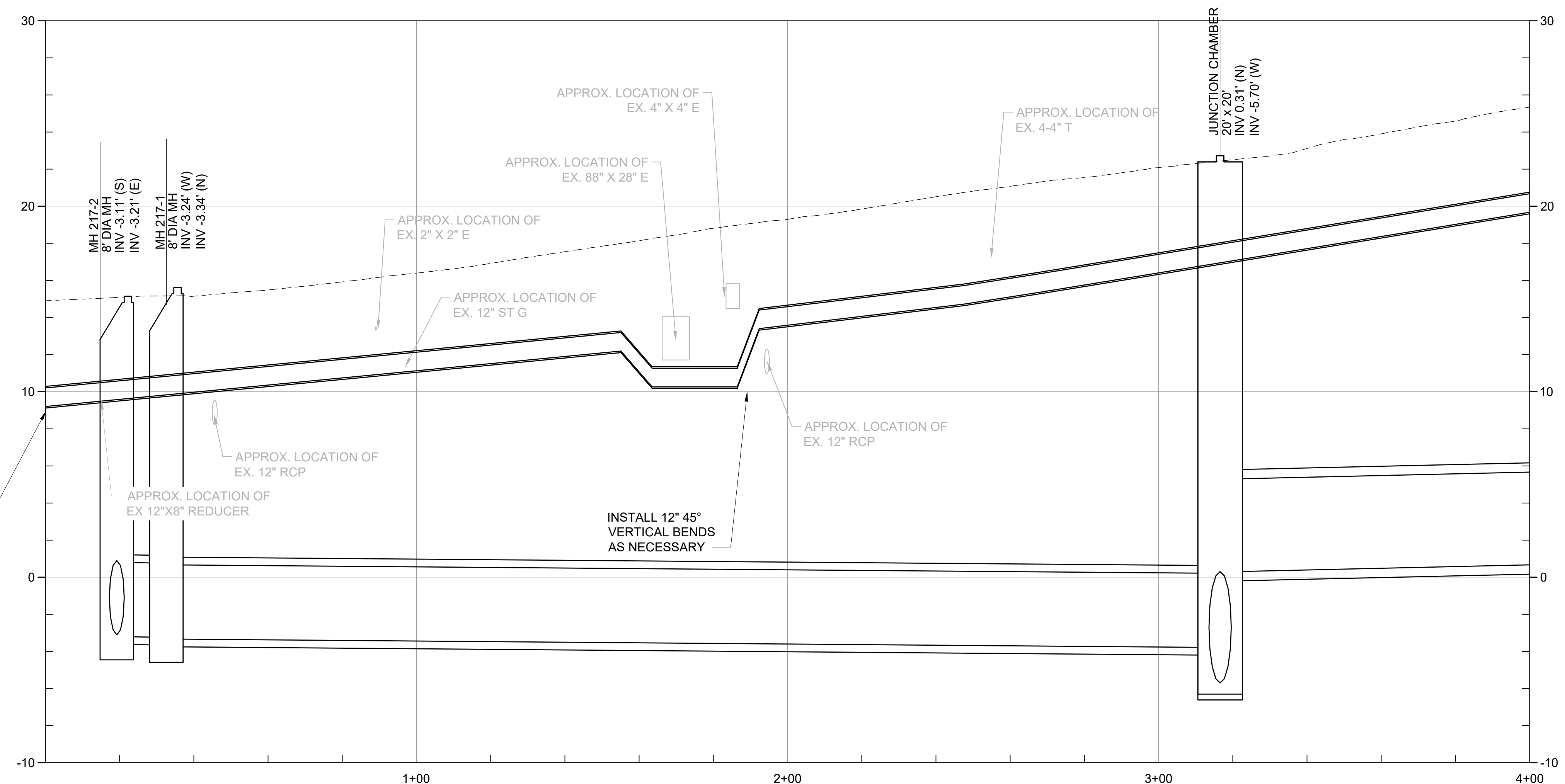
OF 210/213/214 FACILITIES
TEMPORARY WATER BYPASS PLAN

SHEET
C-8
195130227

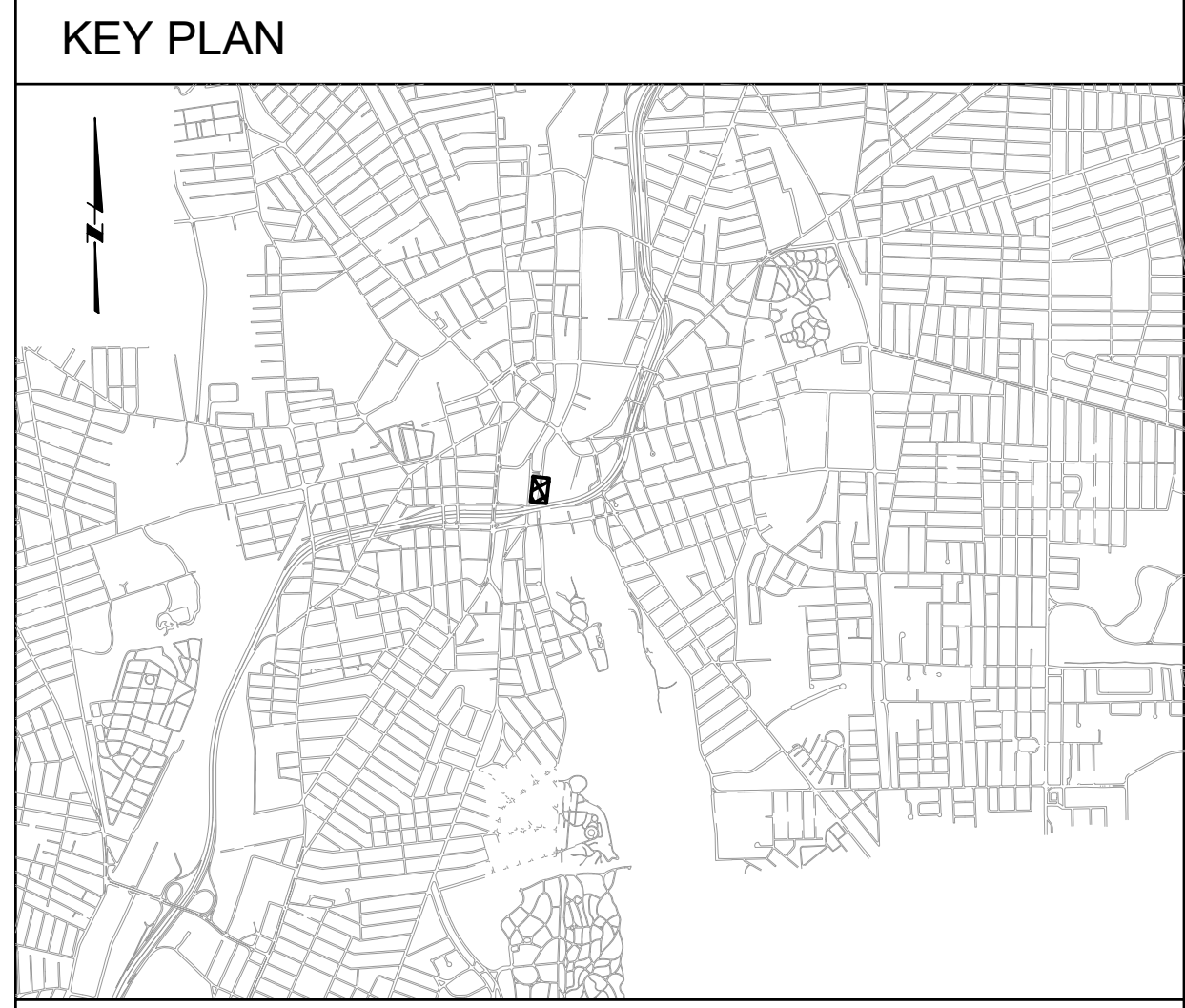
DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Civil\Sheet Set\PAWT_SITE_PLAN_&_PROFILE_WATER.dwg PLOT DATE: Thursday, May 20, 2021 12:48:02 PM



PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



GENERAL SHEET NOTES

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2. FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
3. THE CONTRACTOR SHALL NOTE THAT THE PROPERTIES #76-92 ARE SERVICED OFF THE EXISTING TAFT STREET WATER MAIN. THE CONTRACTOR SHALL BE REQUIRED TO CONNECT THIS PROPERTY TO THE 12" WATER MAIN PRIOR TO SHUTTING DOWN THE EXISTING 8"/12" WATER MAIN FROM THIS LOCATION NORTH TO JENKS WAY FOR SEWER CONSTRUCTION.
4. THE CONTRACTOR SHALL BE REQUIRED TO DISINFECT ALL NEW WATER MAINS AS WELL AS ALL EXISTING WATER MAINS THAT ARE SHUT DOWN FOR AN EXTENDED PERIOD, AS DETERMINED BY THE ENGINEER. ALL MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA 651 DISINFECTION STANDARDS. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR APPROVAL BY THE ENGINEER, A DISINFECTION PLAN THAT ADDRESSES THE DISINFECTION OF NEW AND EXISTING WATER MAINS.

SHEET KEYNOTES

- A. REMOVE AND DISPOSE OF EXISTING WATER MAIN DURING CONSOLIDATION CONDUIT INSTALLATION
- B. INSTALL HYDRANT ASSEMBLY: STATION 2+15
- C. REMOVE AND DISPOSE OF EXISTING ABANDONED GAS MAIN DURING WATER MAIN INSTALLATION, CUT & CAP PIPE ENDS: STATION 0+45 TO 2+50

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	R. GREENWAY
DRAWN	R. GREENWAY
CHECKED	J. D'ALESSIO

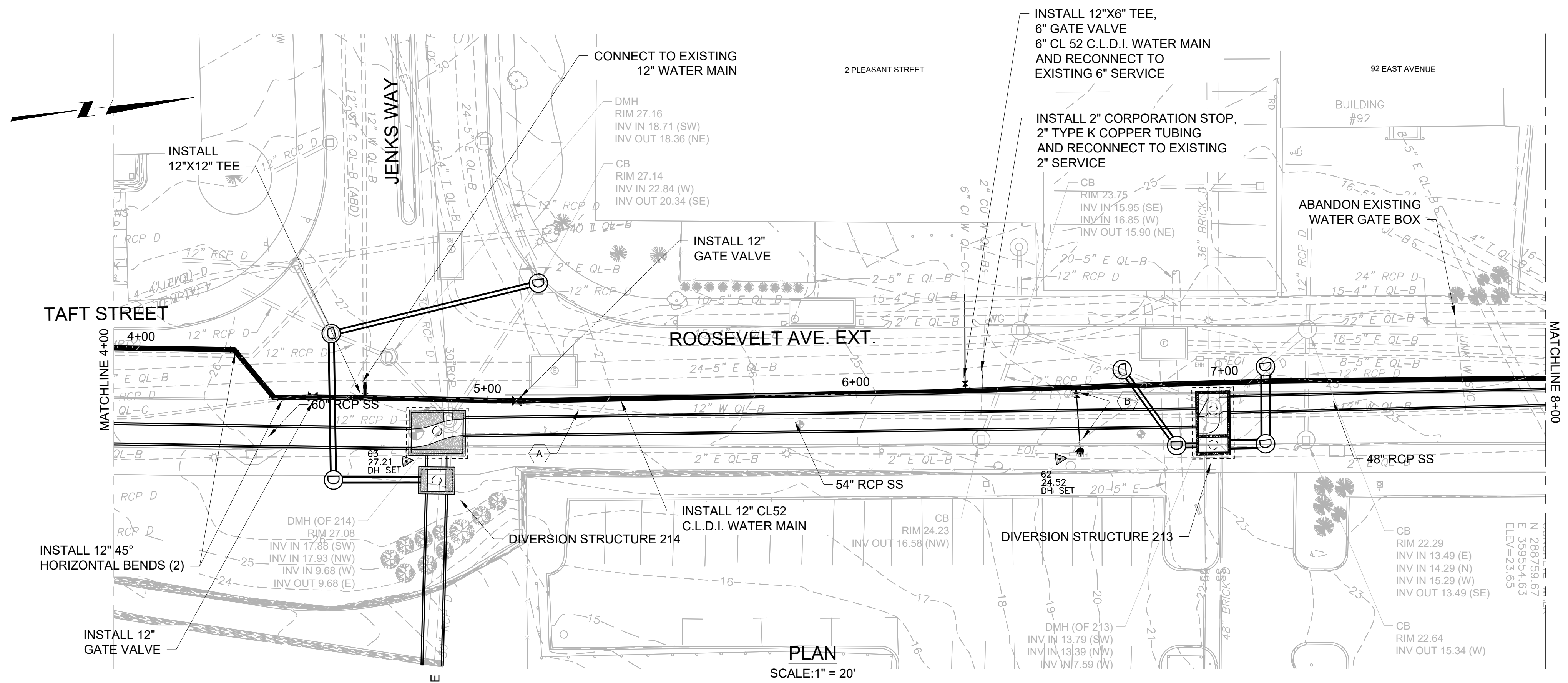
90% DESIGN PHASE - APRIL 2021

NOT FOR CONSTRUCTION

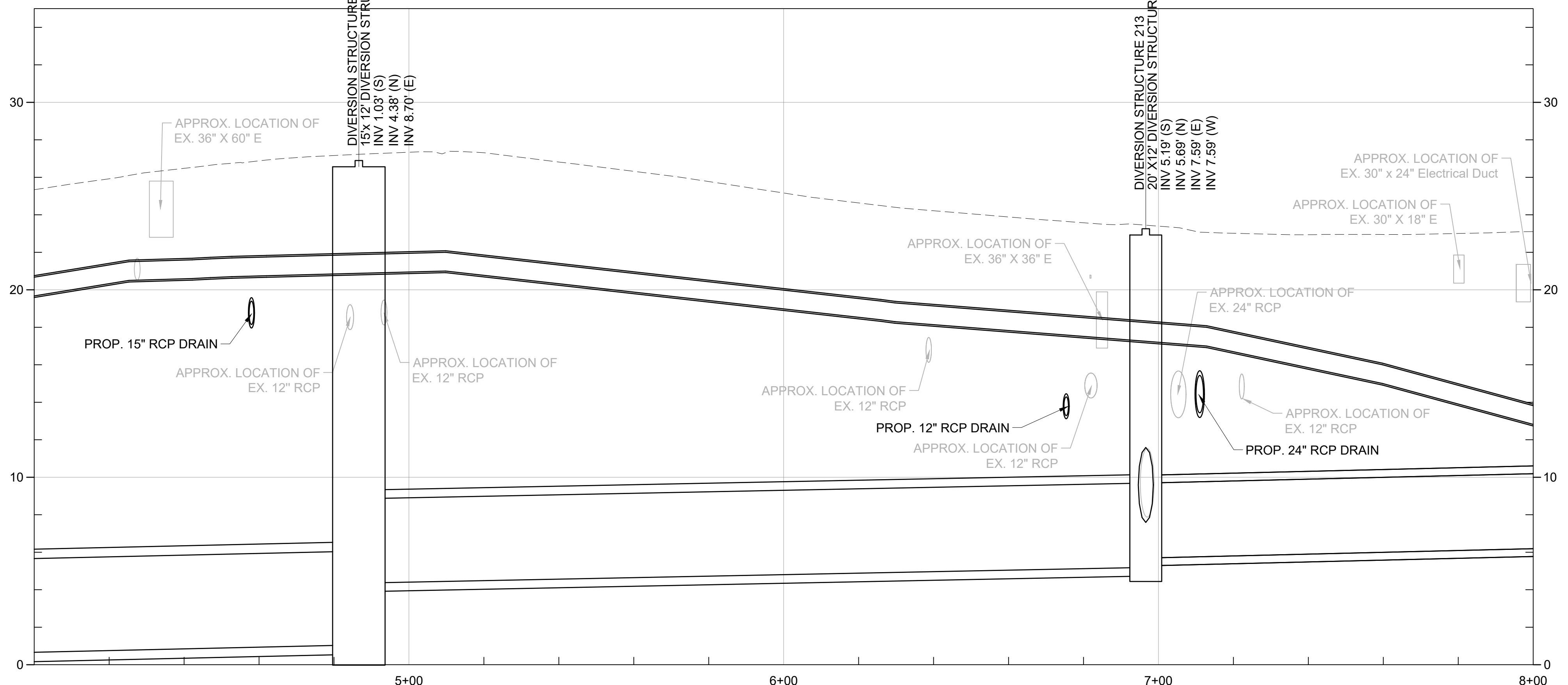
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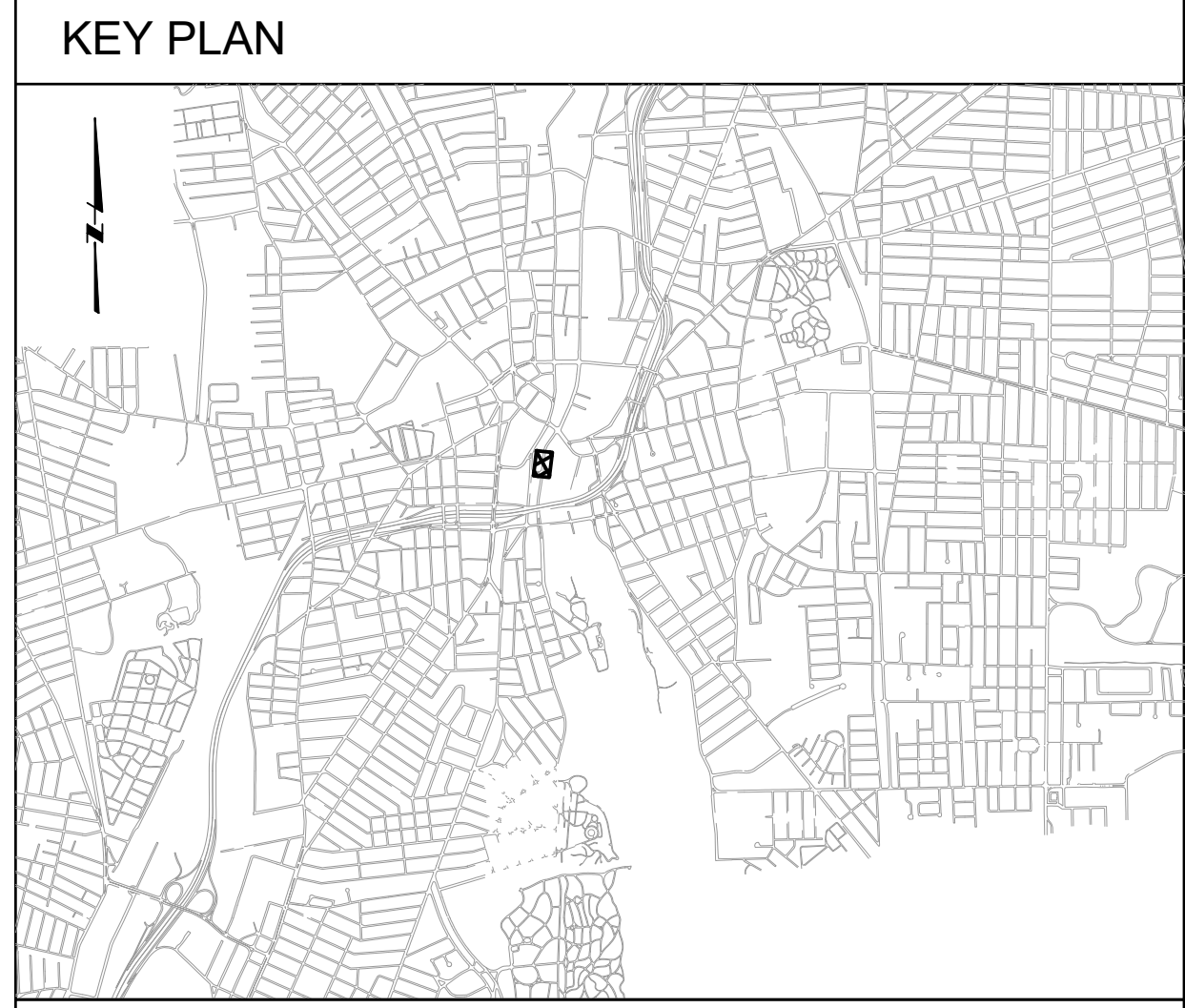
NARRAGANSETT BAY COMMISSION PHASE III COMBINED SEWER OVERFLOW PROGRAM	NBC CONTRACT NO 308.06C CIVIL OF 210/213/214 FACILITIES WATER MAIN REPLACEMENT PLAN & PROFILE I: STA 0+00 - 4+00	SHEET C-9 195130227
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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



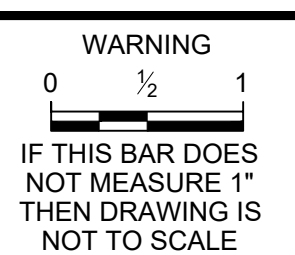
- GENERAL SHEET NOTES**
- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
 - FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
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 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
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- SHEET KEYNOTES**
- A. REMOVE AND DISPOSE OF EXISTING WATER MAIN DURING CONSOLIDATION CONDUIT INSTALLATION
 - B. INSTALL HYDRANT ASSEMBLY: STATION 6+75
 - C. REMOVE AND DISPOSE OF EXISTING ABANDONED GAS MAIN DURING WATER MAIN INSTALLATION, CUT & CAP PIPE ENDS:

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Civil\Sheet Set\PAWT_SITE_PLAN_&_PROFILE_WATER.dwg PLOT DATE: Thursday, May 20, 2021 12:48:31 PM

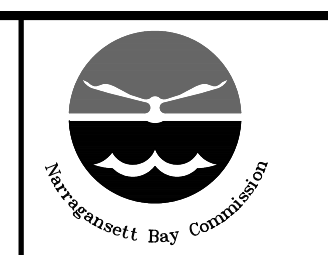
REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE
AS SHOWN



DESIGNED R. GREENWAY
DRAWN R. GREENWAY
CHECKED J. D'ALESSIO

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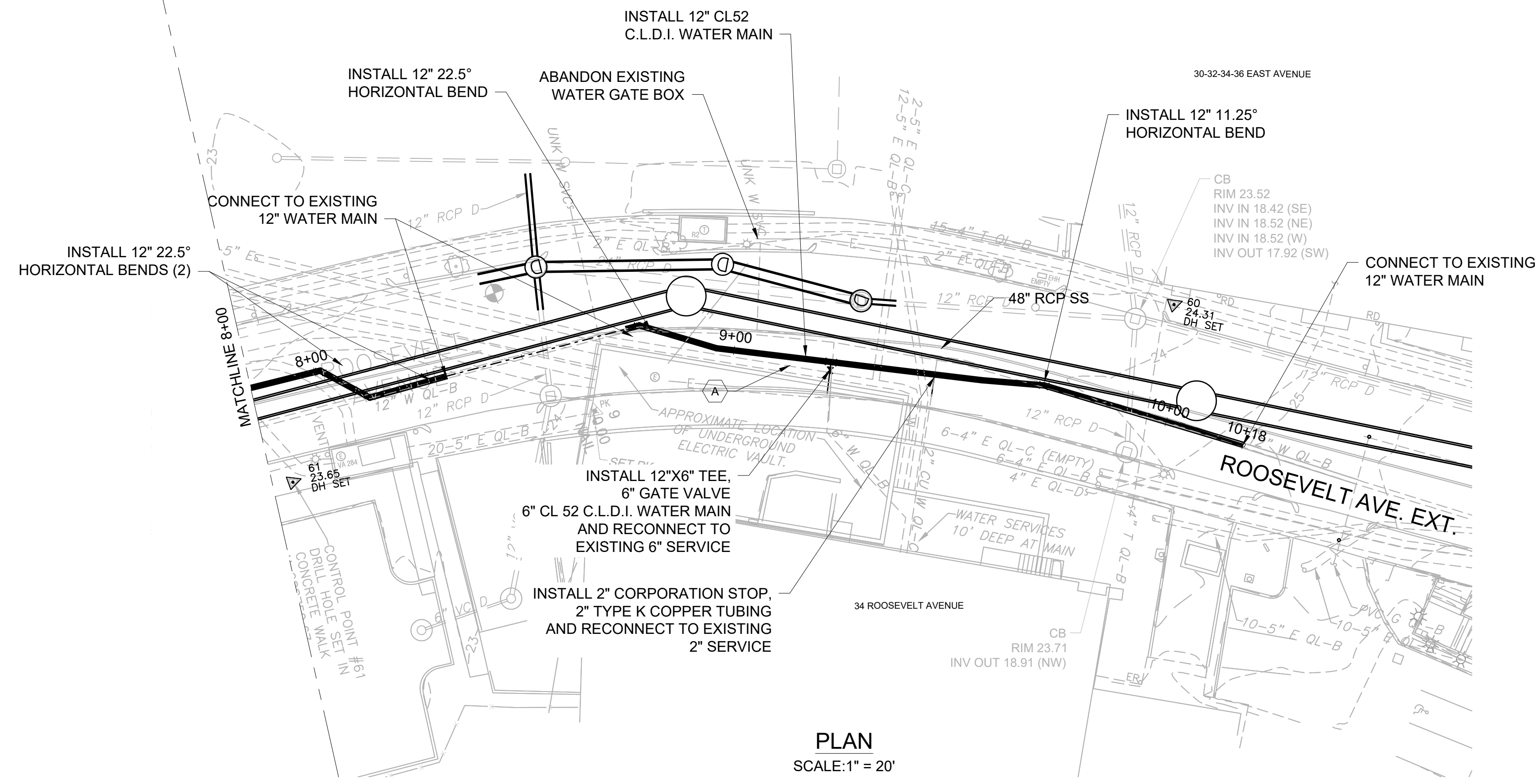


NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

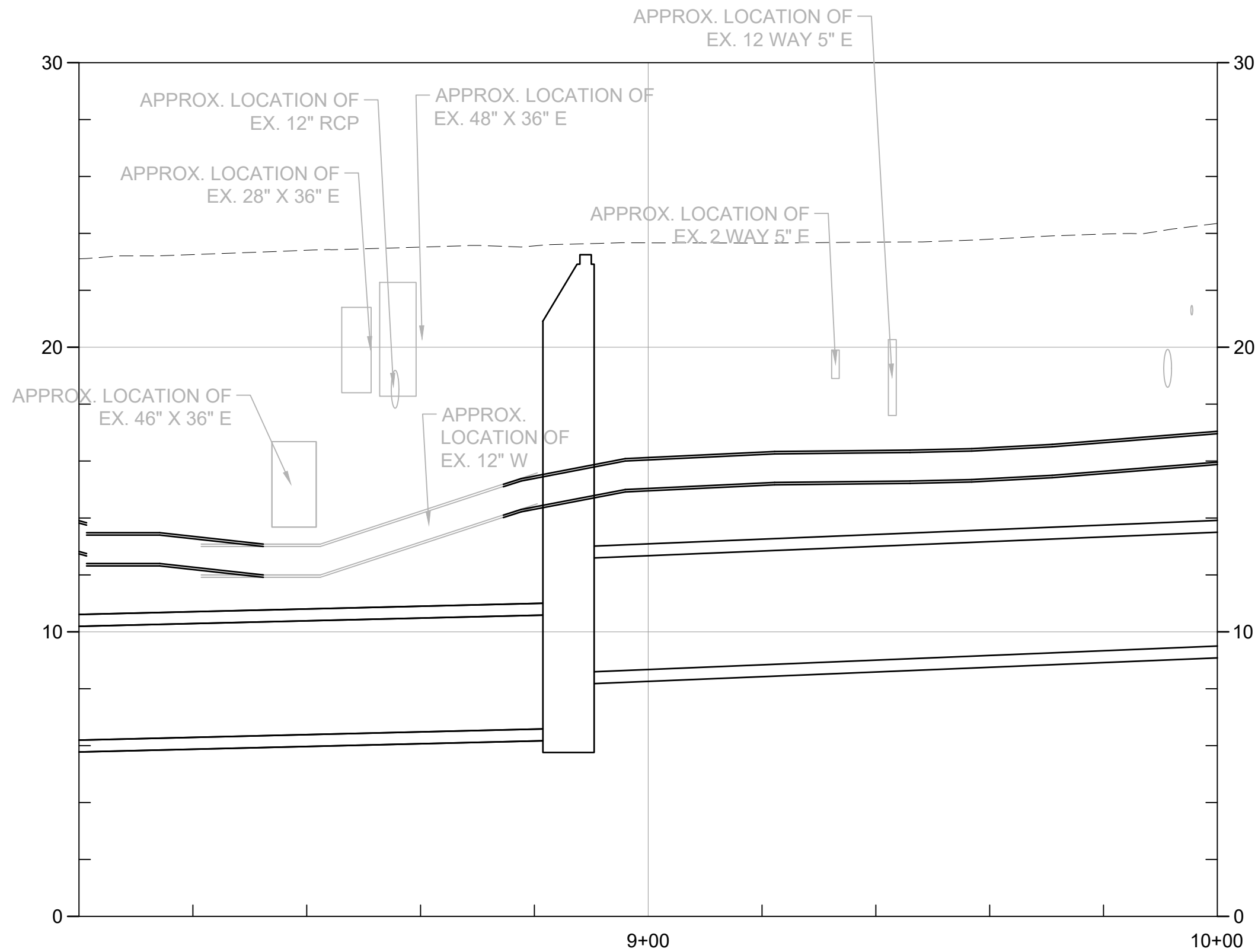
NBC CONTRACT NO 308.06C
CIVIL
OF 210/213/214 FACILITIES
WATER MAIN REPLACEMENT
PLAN & PROFILE II: STA 4+00 - 8+00

SHEET
C-10
195130227

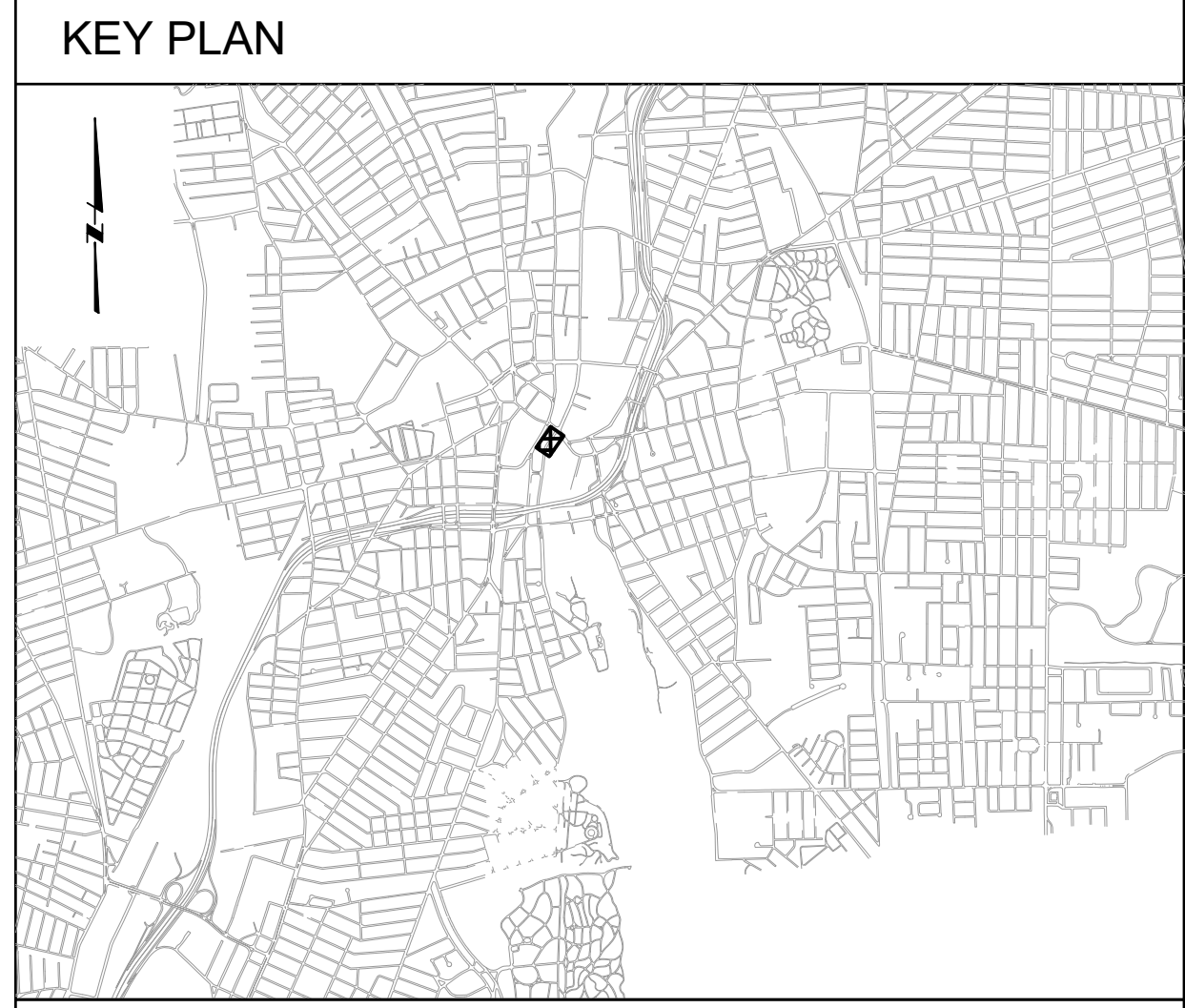
BY: JAIMIE PAYNE
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PLAN
 SCALE: 1" = 20'



PROFILE
 SCALE: 1" = 20' (H)
 1" = 5' (V)



- GENERAL SHEET NOTES**
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 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
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- SHEET KEYNOTES**
- A. REMOVE AND DISPOSE OF EXISTING WATER MAIN DURING SEWER MAIN INSTALLATION
 - B. INSTALL HYDRANT ASSEMBLY:
 - C. REMOVE AND DISPOSE OF EXISTING ABANDONED GAS MAIN DURING WATER MAIN INSTALLATION, CUT & CAP PIPE ENDS:

REV	DATE	BY	DESCRIPTION
1	5/13/20	1	STANTEC COMMENTS

SCALE: 1" = 20'

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: R. GREENWAY
 DRAWN: R. GREENWAY
 CHECKED: J. D'ALELIO

90% DESIGN PHASE - APRIL 2021

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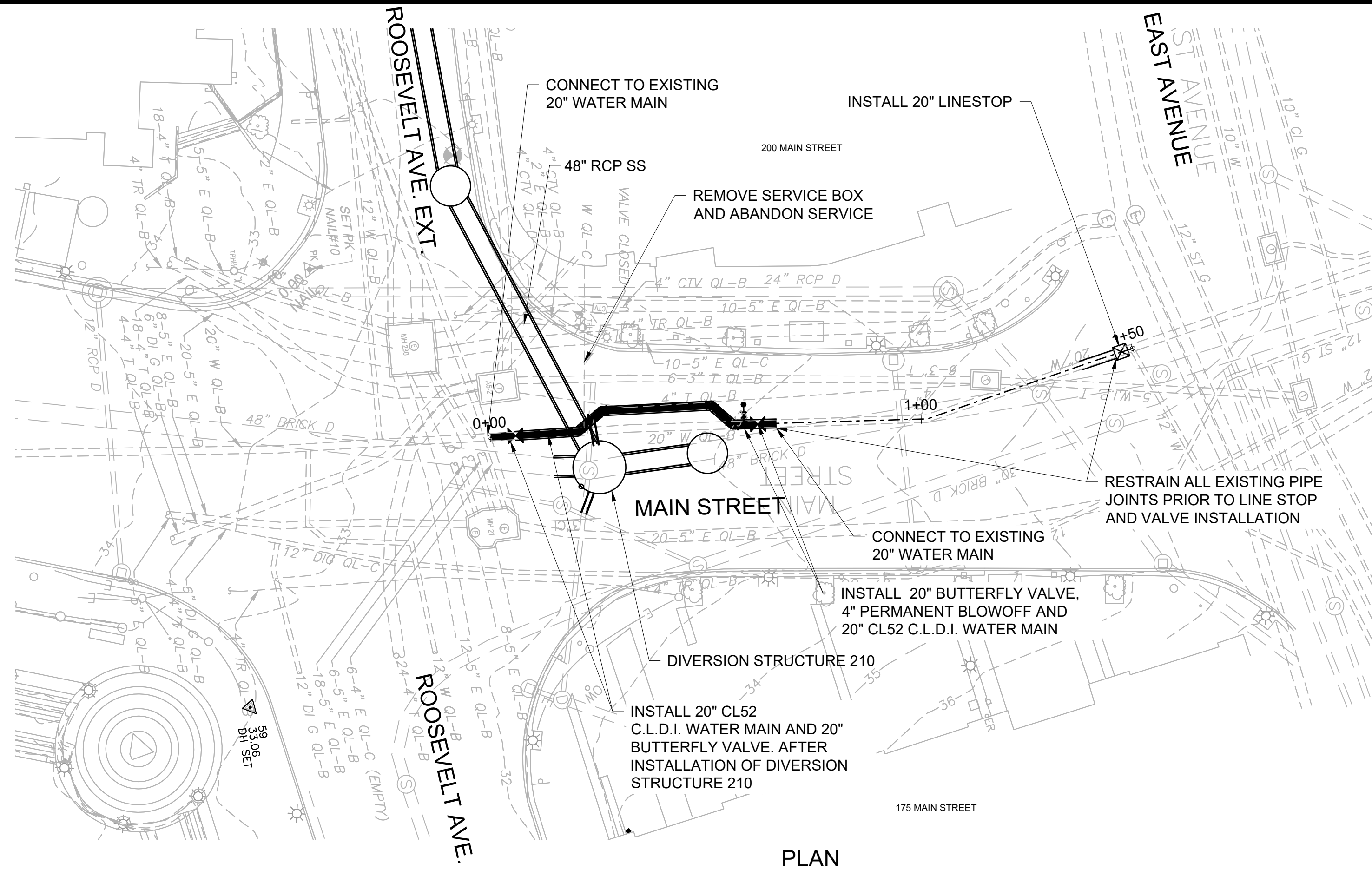
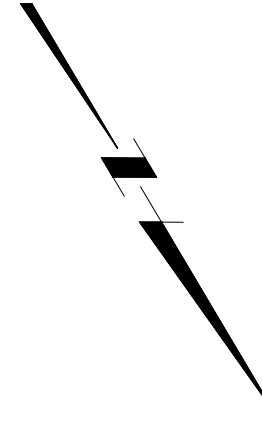


NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER
 OVERFLOW PROGRAM

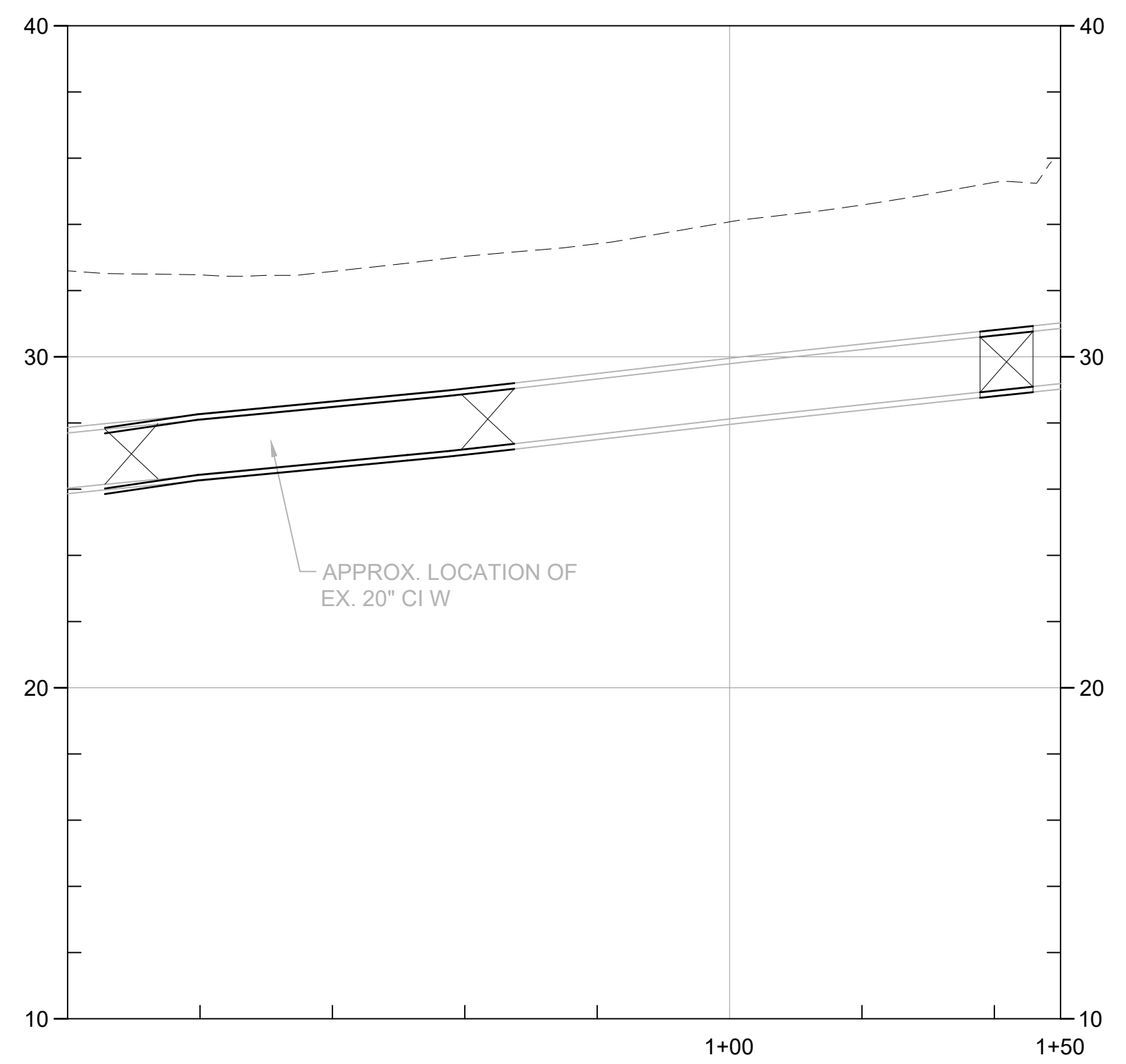
NBC CONTRACT NO 308.08C
 CIVIL
 OF 210/213/214 FACILITIES
 ROOSEVELT AVENUE EXT. WATER MAIN REPLACEMENT
 PLAN & PROFILE 3: STA 8+00 - 10+00

SHEET
C-11
 195130227

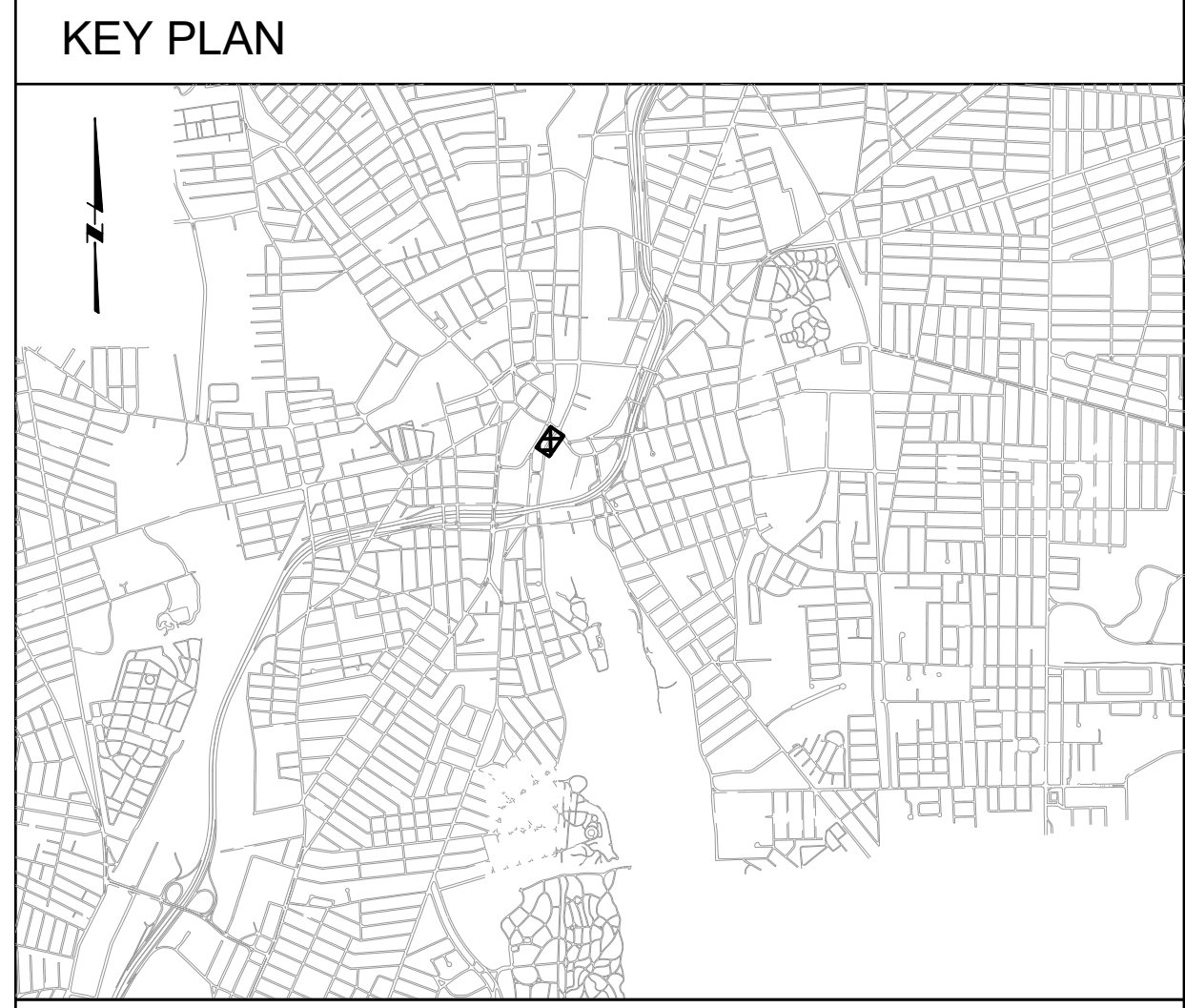
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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



GENERAL SHEET NOTES

- SURVEY INFORMATION PROVIDED BY BRYANT AND ASSOCIATES, INC. NOVEMBER 2019. VERTICAL DATUM NGVD 1929, HORIZONTAL DATUM, STATE PLAN COORDINATE SYSTEM.
- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC. QL-B.
- FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
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 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
- THE CONTRACTOR SHALL BE REQUIRED TO RESTRAIN ALL JOINTS ON THE EXISTING 20" MAIN BETWEEN THE PROPOSED LINE STOP AND BUTTERFLY VALVE. THE MAIN MUST BE RESTRAINED PRIOR TO INSTALLATION OF THE LINE STOP AND VALVE. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR APPROVAL BY THE ENGINEER, THE INTENDED METHOD OF JOINT RESTRAINT.
- THE CONTRACTOR SHALL BE REQUIRED TO DISINFECT ALL NEW WATER MAINS AS WELL AS ALL EXISTING WATER MAINS THAT ARE SHUT DOWN FOR AN EXTENDED PERIOD, AS DETERMINED BY THE ENGINEER. ALL MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA 651 DISINFECTION STANDARDS. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR APPROVAL BY THE ENGINEER, A DISINFECTION PLAN THAT ADDRESSES THE DISINFECTION OF NEW AND EXISTING WATER MAINS.
- SUGGESTED SEQUENCE OF CONSTRUCTION:
 - INSTALL 20" LINSTOP & BUTTERFLY VALVE AT STATION 1+40
 - REMOVE & DISPOSE OF EXISTING 20" CL52 CLDI WATER MAIN WITHIN LIMITS OF DIVERSION STRUCTURE 210
 - INSTALL DIVERSION STRUCTURE 210 AND NEW 48" CONSOLIDATION CONDUIT
 - INSTALL NEW 20" BUTTERFLY VALVE AT STATION 0+10 AND INSTALL NEW 20" CL52 CLDI WATER MAIN AND CONNECT TO EXISTING WATER MAIN

SHEET KEYNOTES

- A. REMOVE AND DISPOSE OF EXISTING WATER MAIN DURING SEWER MAIN INSTALLATION
- B. INSTALL HYDRANT ASSEMBLY:
- C. RELOCATE EXISTING TELECOM CONDUIT DURING WATER MAIN INSTALLATION AS NECESSARY.

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE: 1"=20'

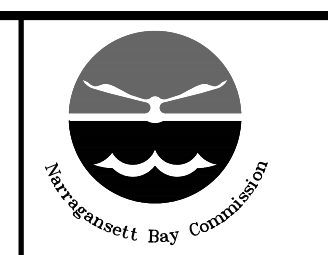
WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: R. GREENWAY
DRAWN: R. GREENWAY
CHECKED: J. D'ALELIO

90% DESIGN PHASE - APRIL 2021

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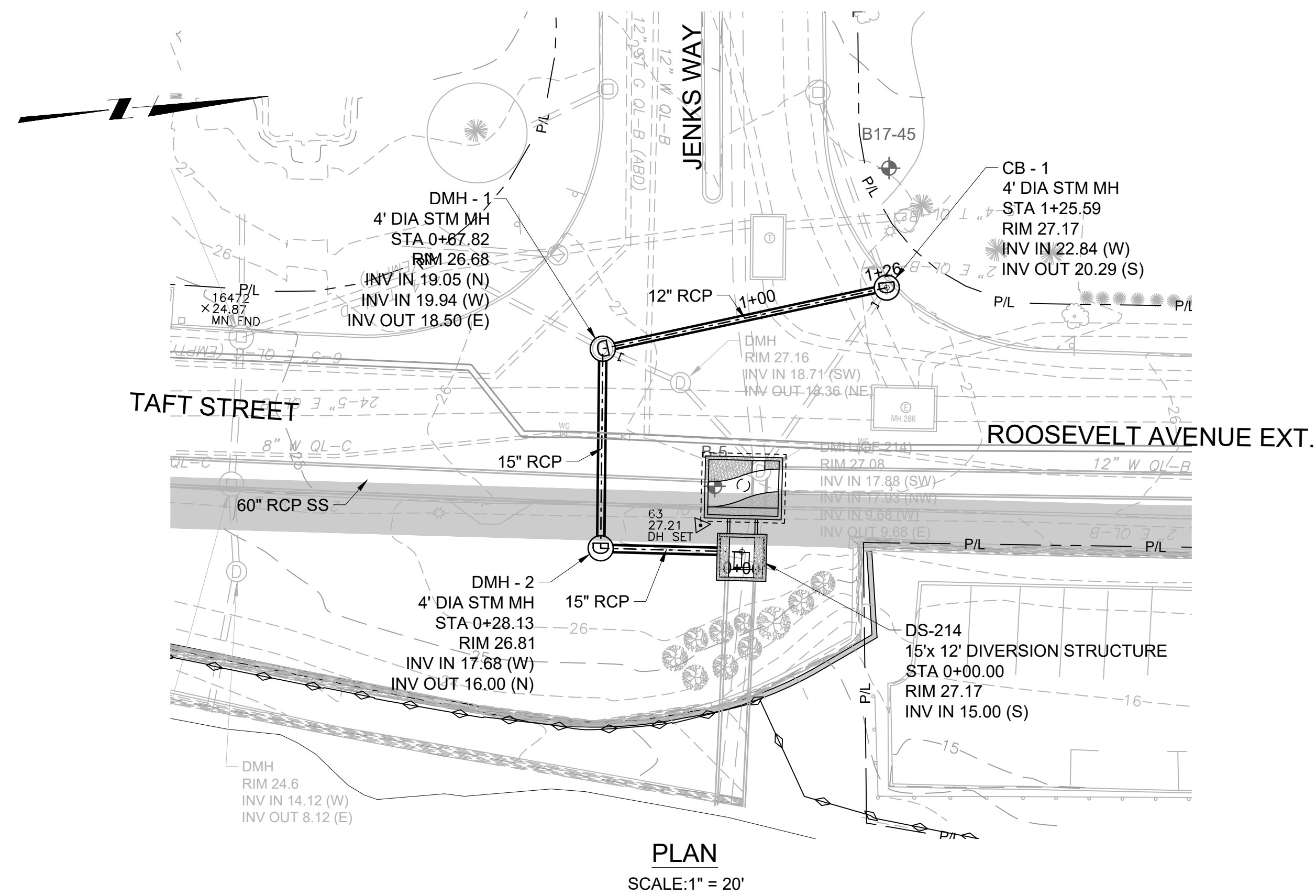


NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

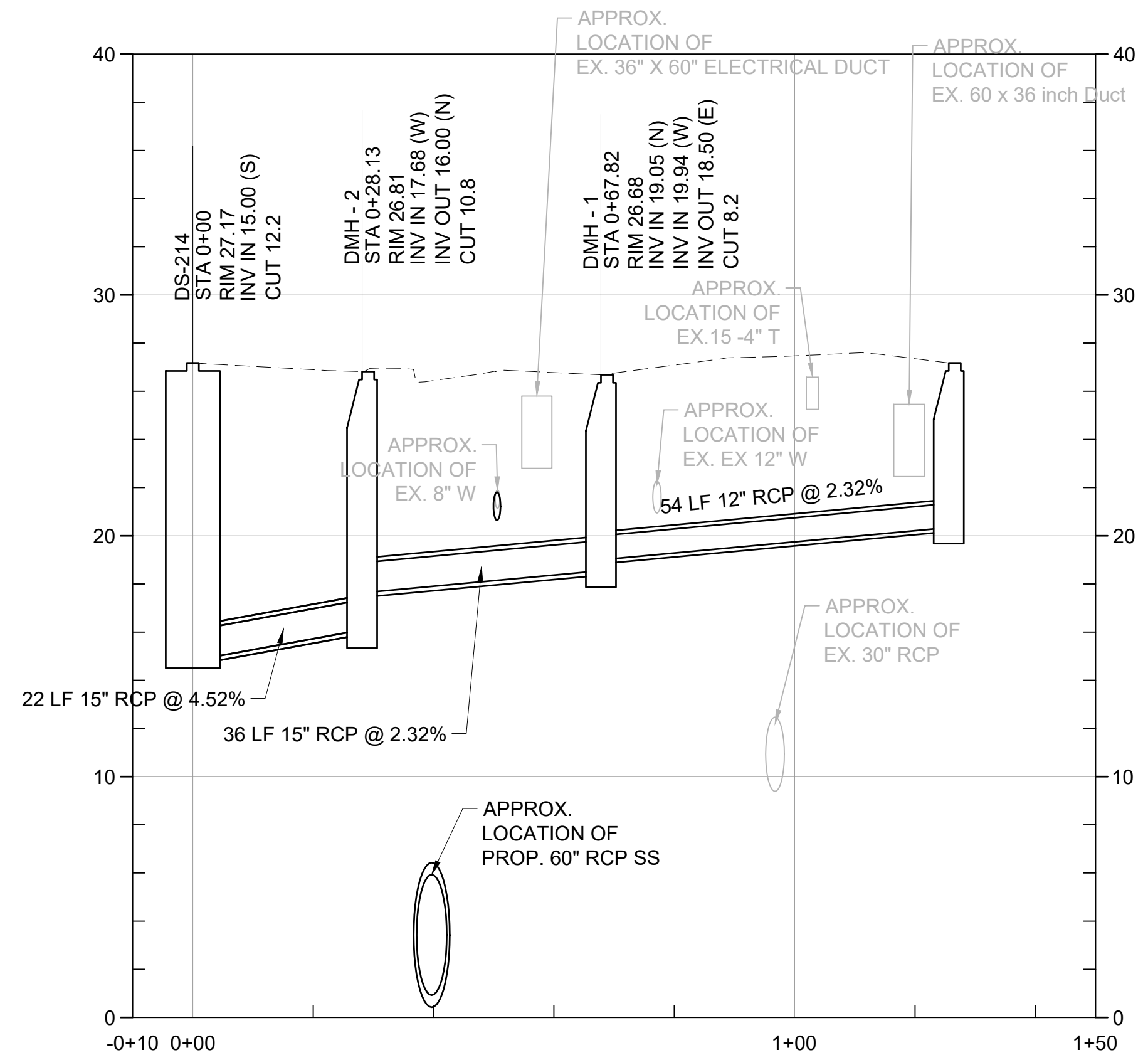
NBC CONTRACT NO 308.08C
CIVIL
OF 210/213/214 FACILITIES
MAIN STREET WATER MAIN REPLACEMENT
PLAN & PROFILE 4: STA 0+00 - 1+50

BY: JAIMIE PAYNE

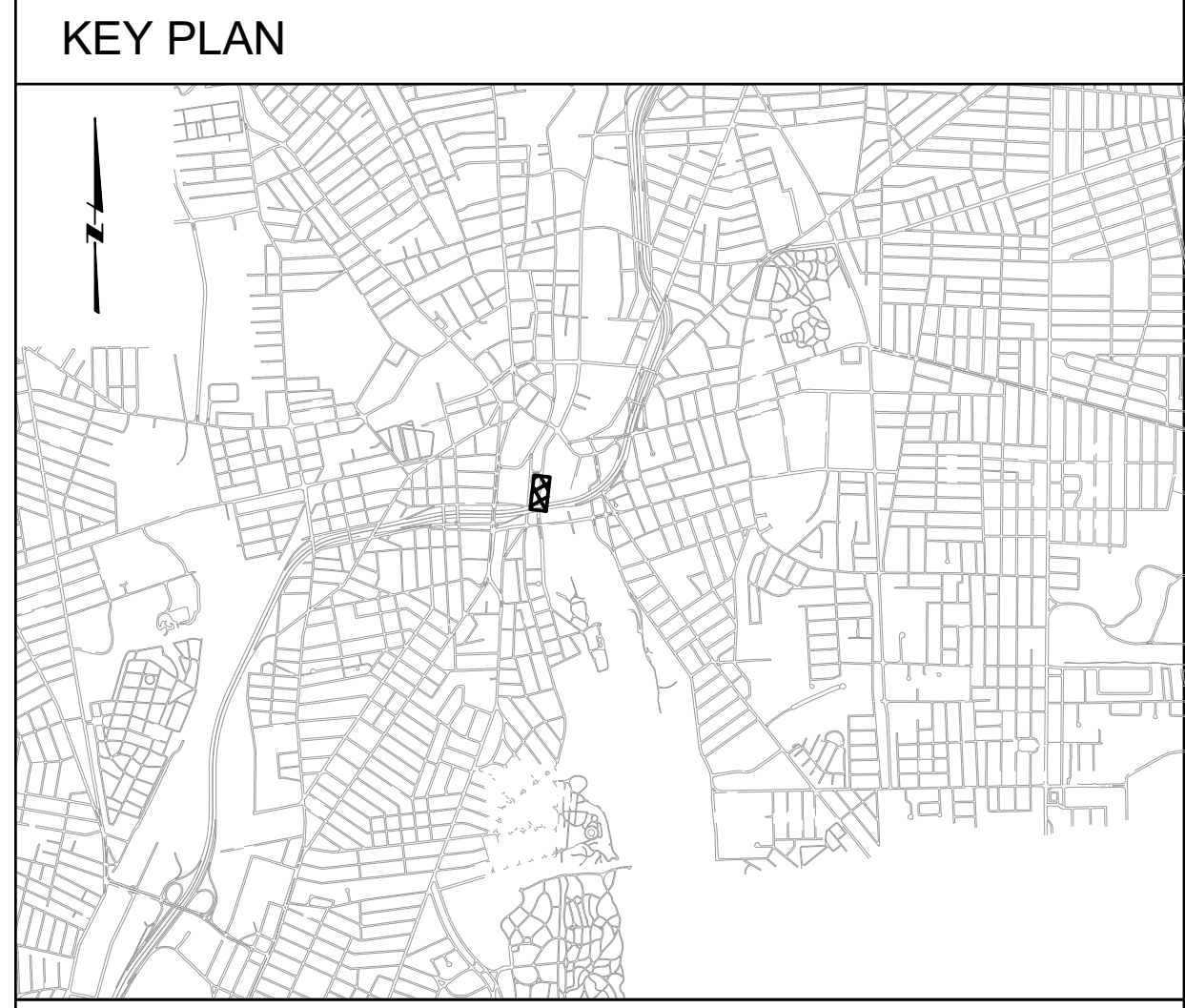
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PLAN
SCALE: 1" = 20'



PROFILE
SCALE: 1" = 20' (H)
1" = 5' (V)



- GENERAL SHEET NOTES**
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 - FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
 - CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
 - VERTICAL DATUM FOR PROJECT IS NGVD29.

SHEET KEYNOTES

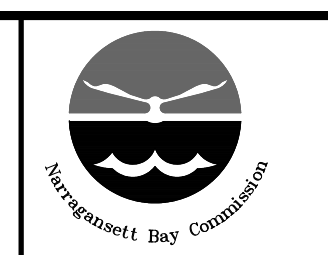
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SCALE
AS SHOWN

WARNING
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DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALESSIO

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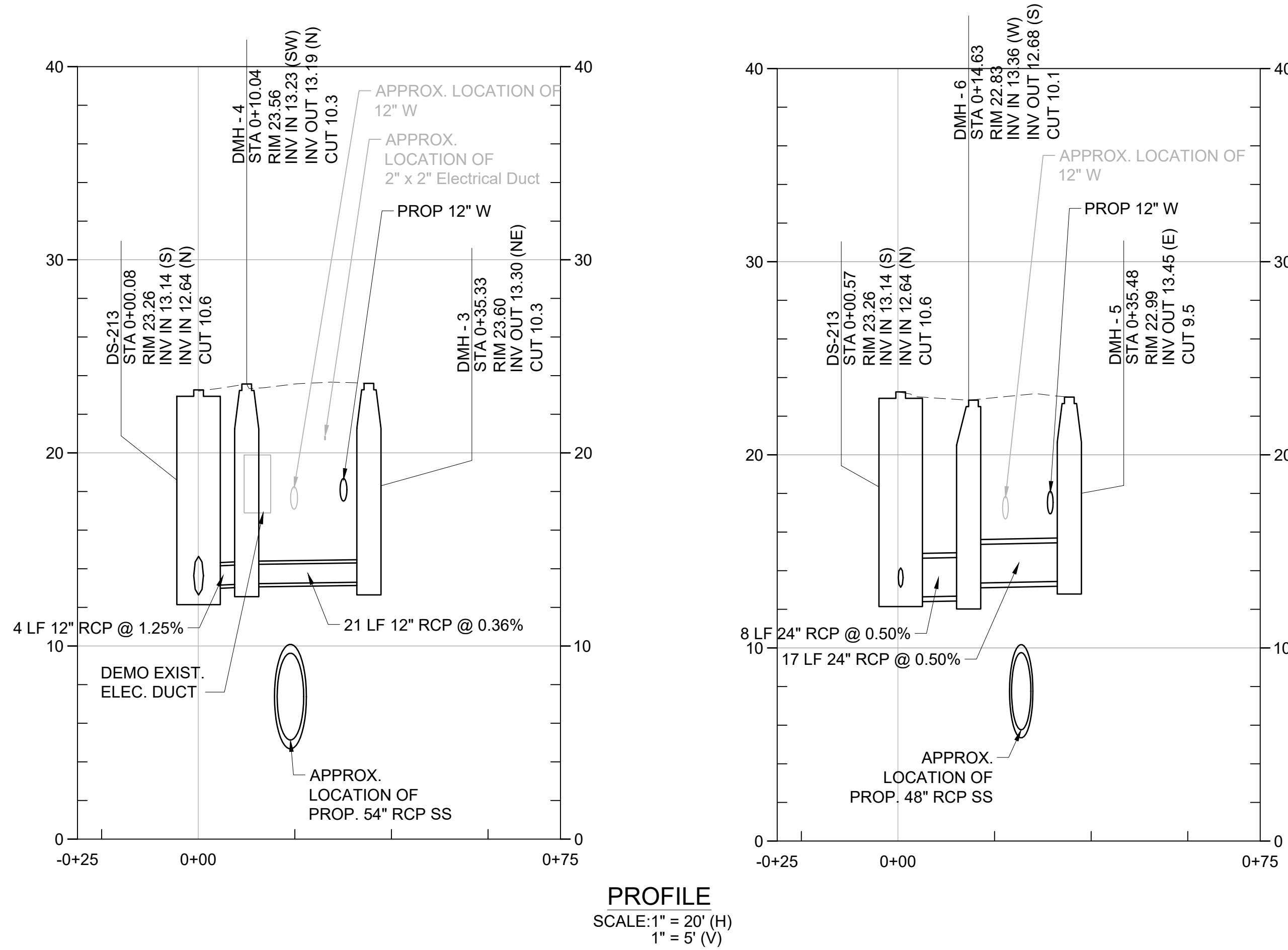
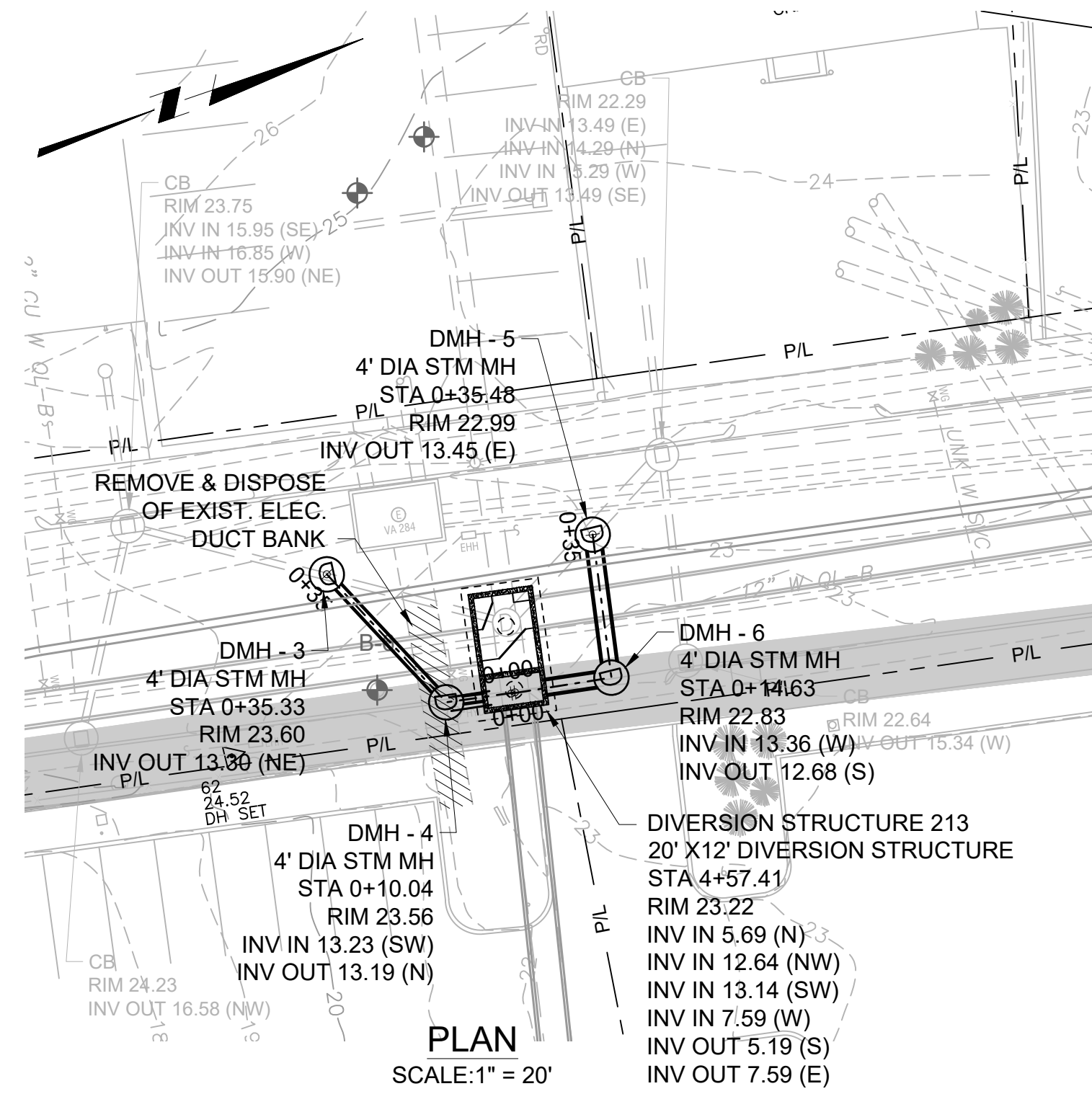
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM
Stantec PARE

NBC CONTRACT NO 308.04C
CIVIL
OF 210/213/214 FACILITIES
DRAINAGE PLAN AND PROFILE I: STA 0+00 - 1+26

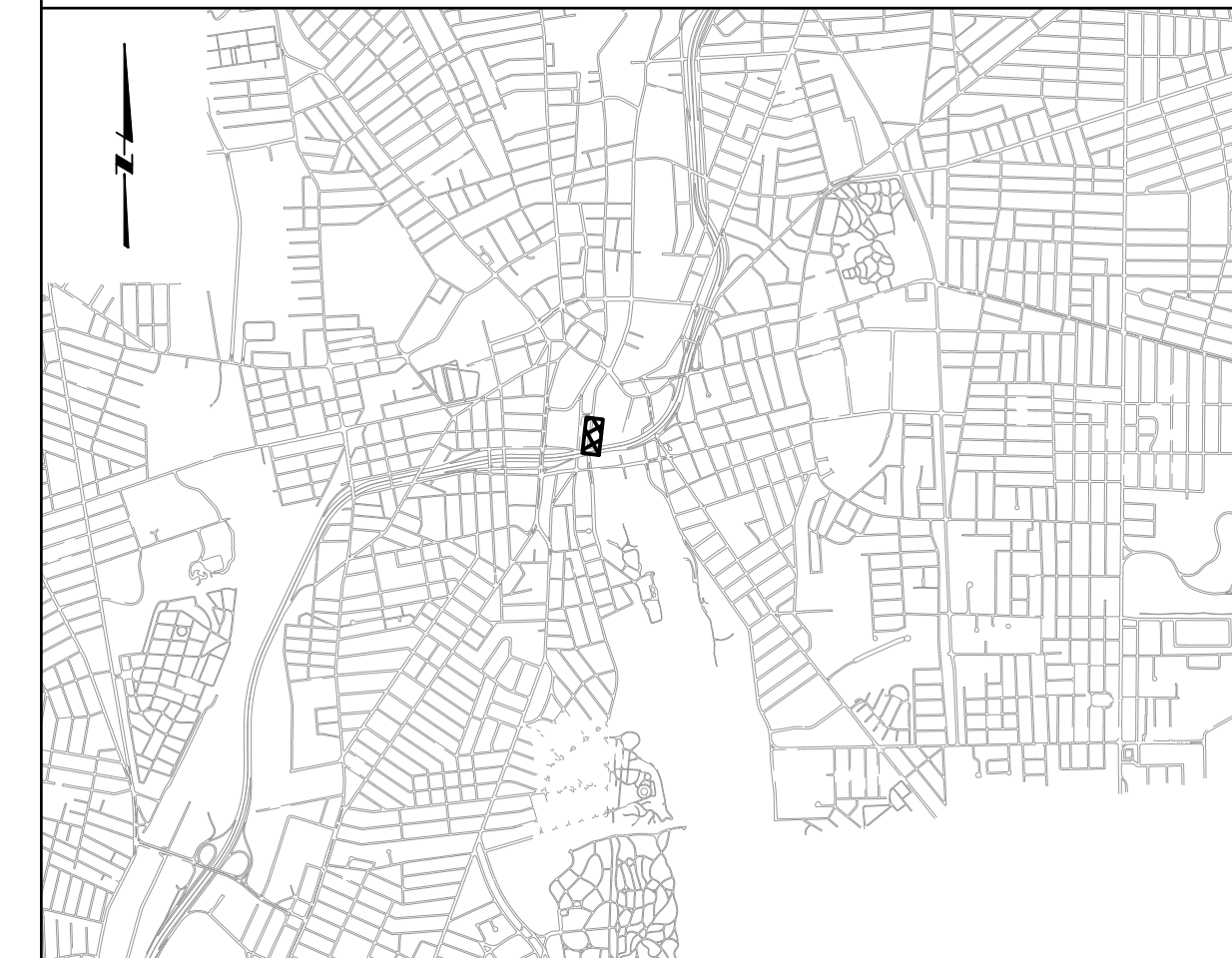
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C-13
195130227

BY: JAIMIE PAYNE

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KEY PLAN



GENERAL SHEET NOTES

- UTILITY INFORMATION DEPICTED, PROVIDED BY BSI ENGINEERING INC.
- FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
 - NORTH OF DIVISION STREET BRIDGE: AE ELEVATION 12.8
 - SOUTH OF DIVISION STREET BRIDGE: VE ELEVATION 13.8
- CITY PROPOSED BIKE PATH PROJECT DEPICTED IN GRAY SHADING FOR COORDINATION.
- VERTICAL DATUM FOR PROJECT IS NGVD29.

SHEET KEYNOTES

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN

WARNING

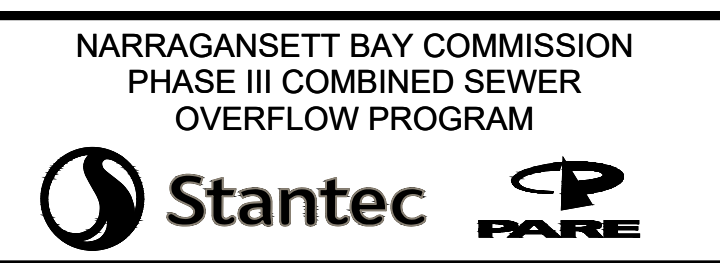
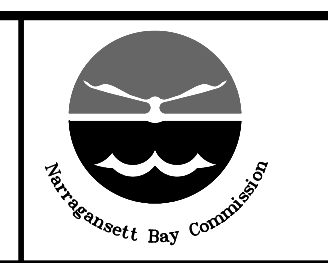
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 DRAWN J. PAYNE
 CHECKED J. D'ALESSIO

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NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER
 OVERFLOW PROGRAM

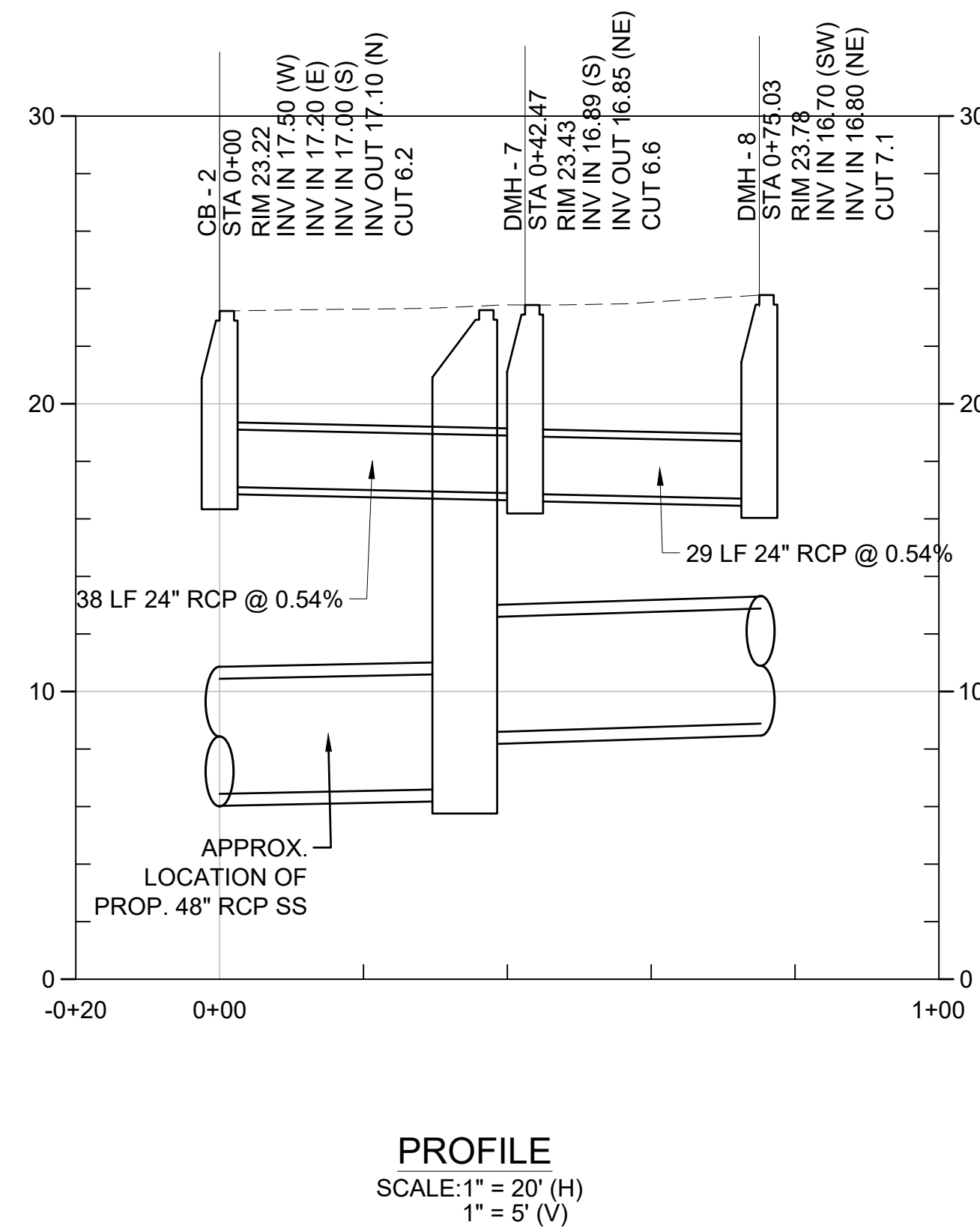
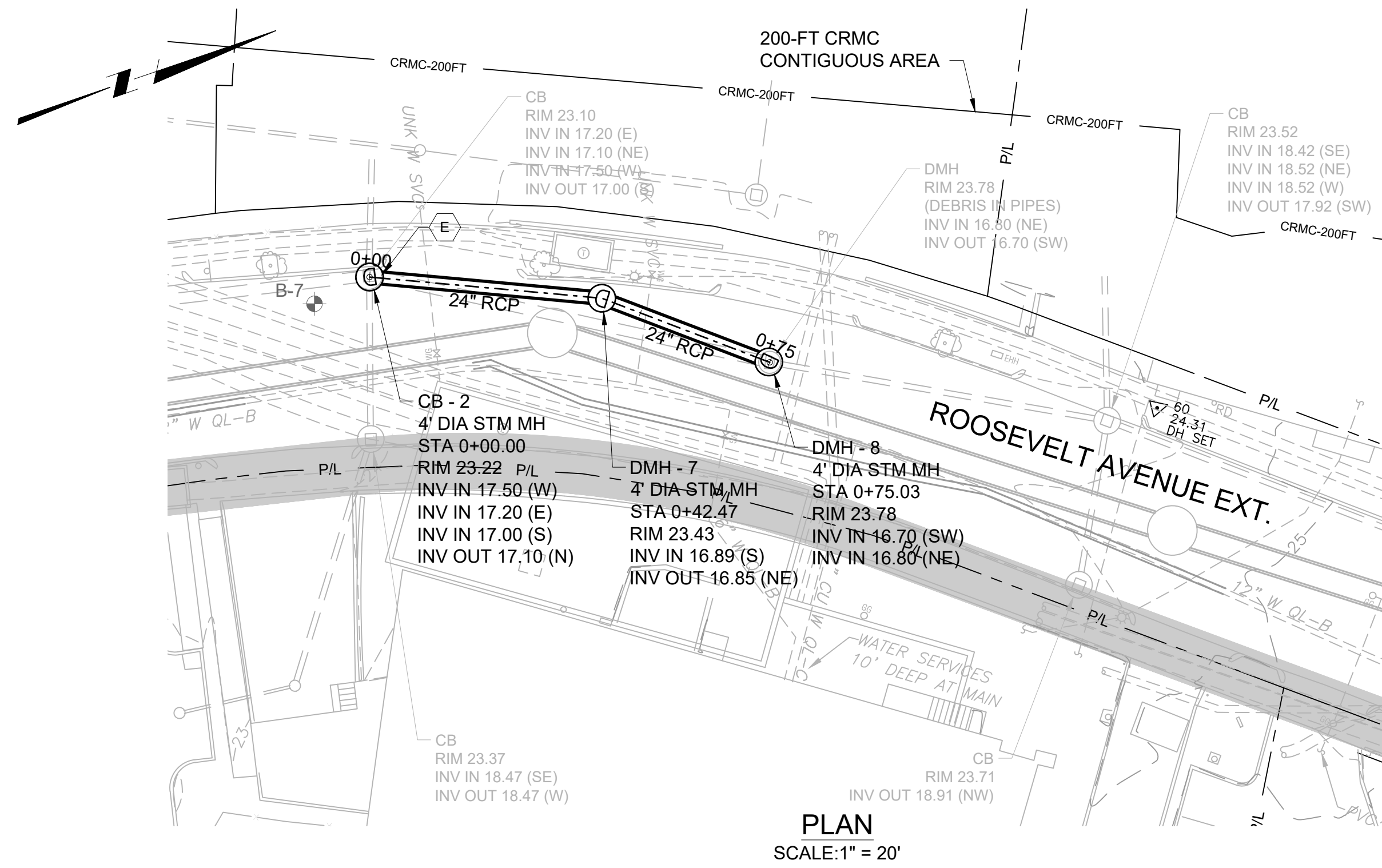
NBC CONTRACT NO 308.04C
 CIVIL

OF 210/213/214 FACILITIES
 DRAINAGE PLAN AND PROFILE II: STA 0+00 - 0+35

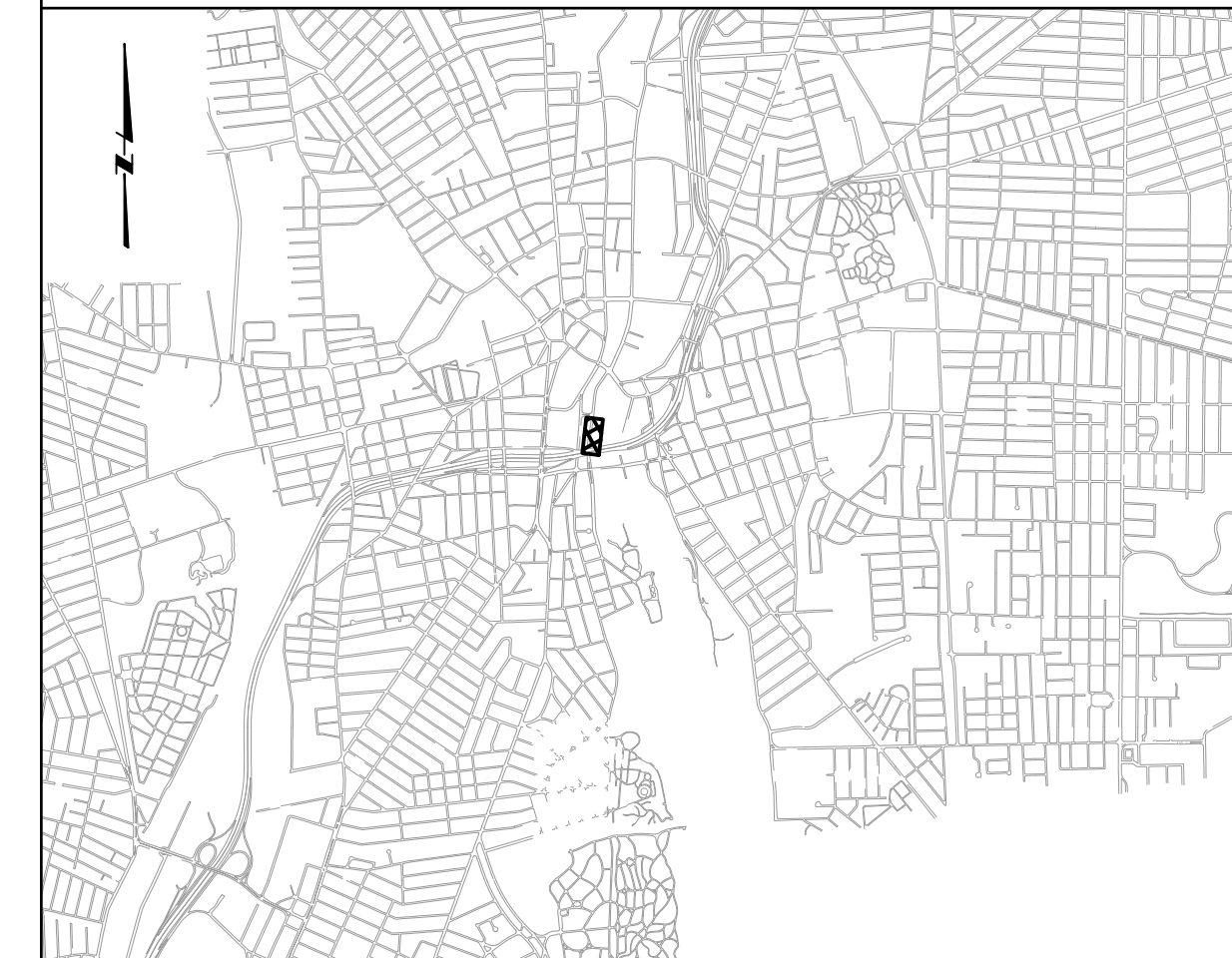
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C-14
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BY: JAIMIE PAYNE

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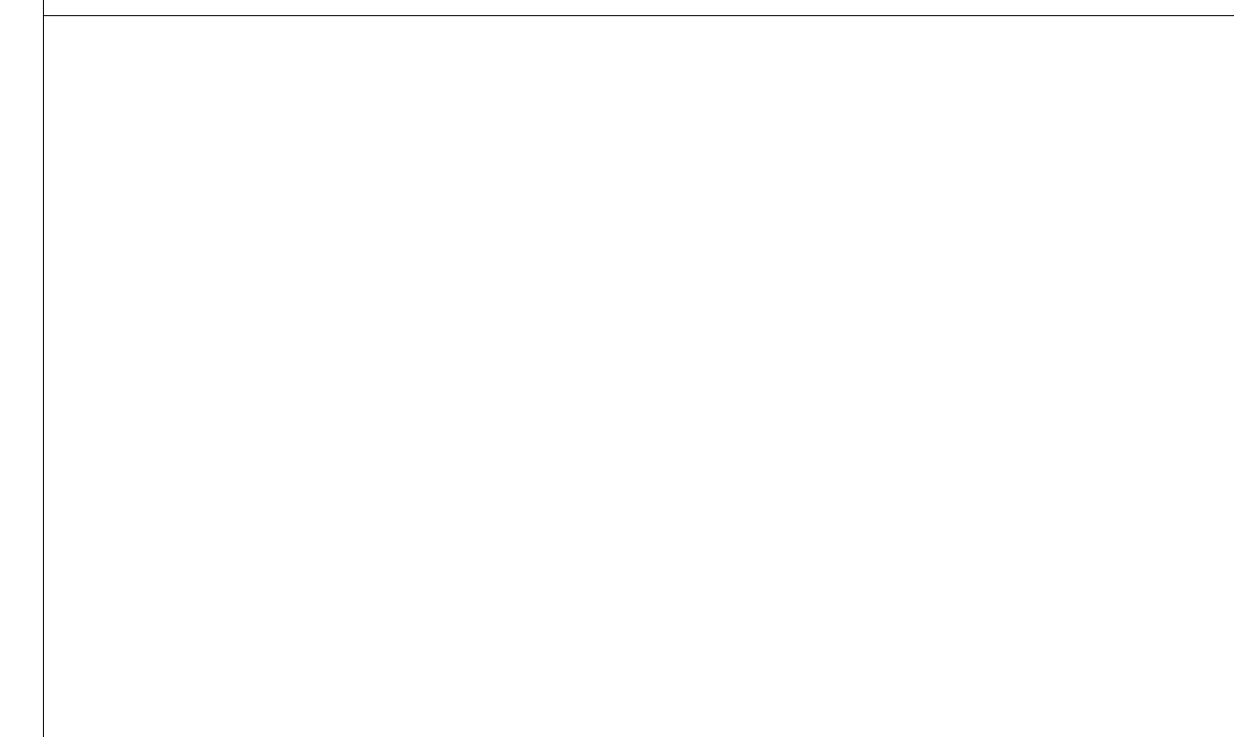
KEY PLAN



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SHEET KEYNOTES



REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

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DRAWN	J. PAYNE
CHECKED	J. D'ALESSIO

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

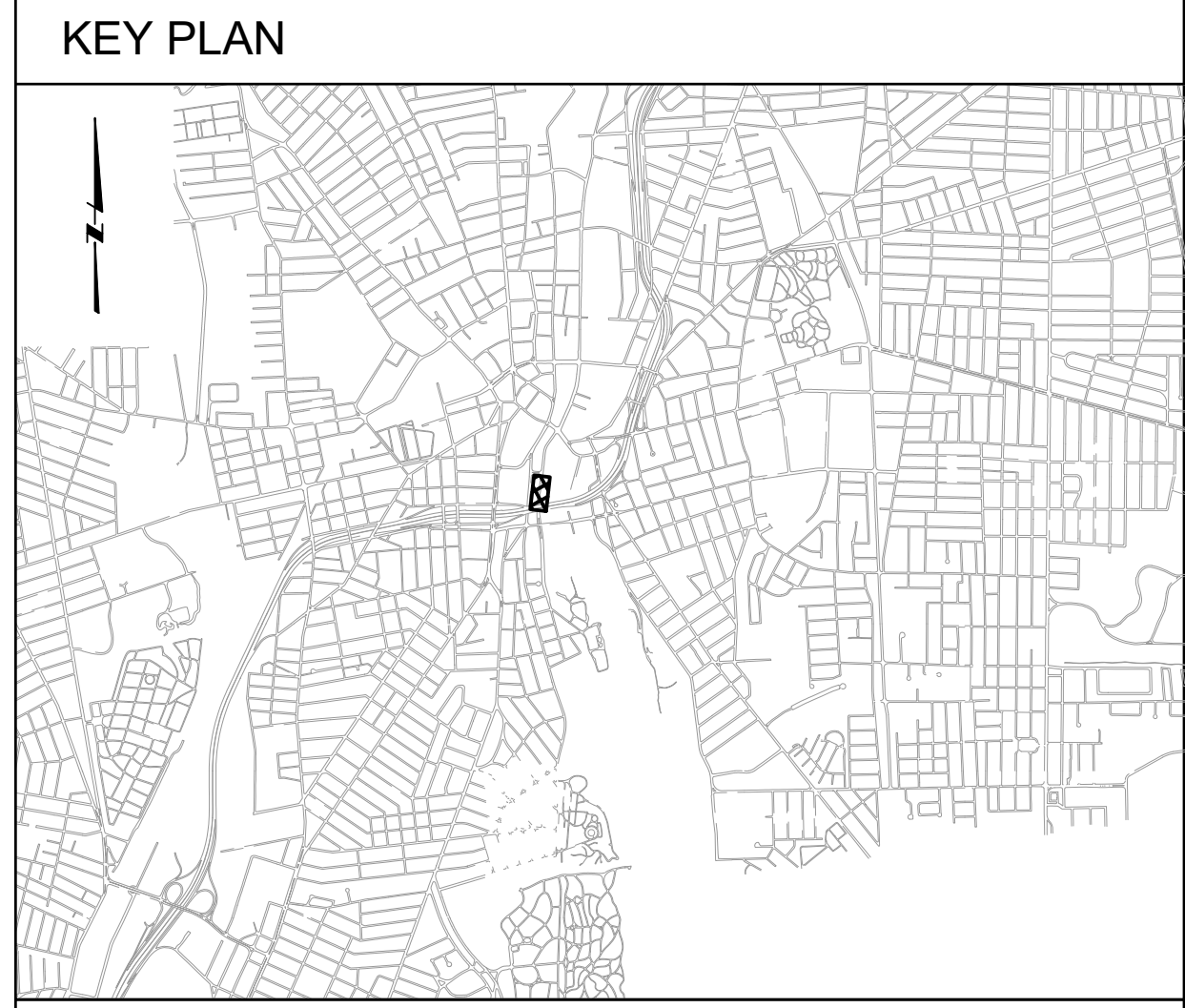
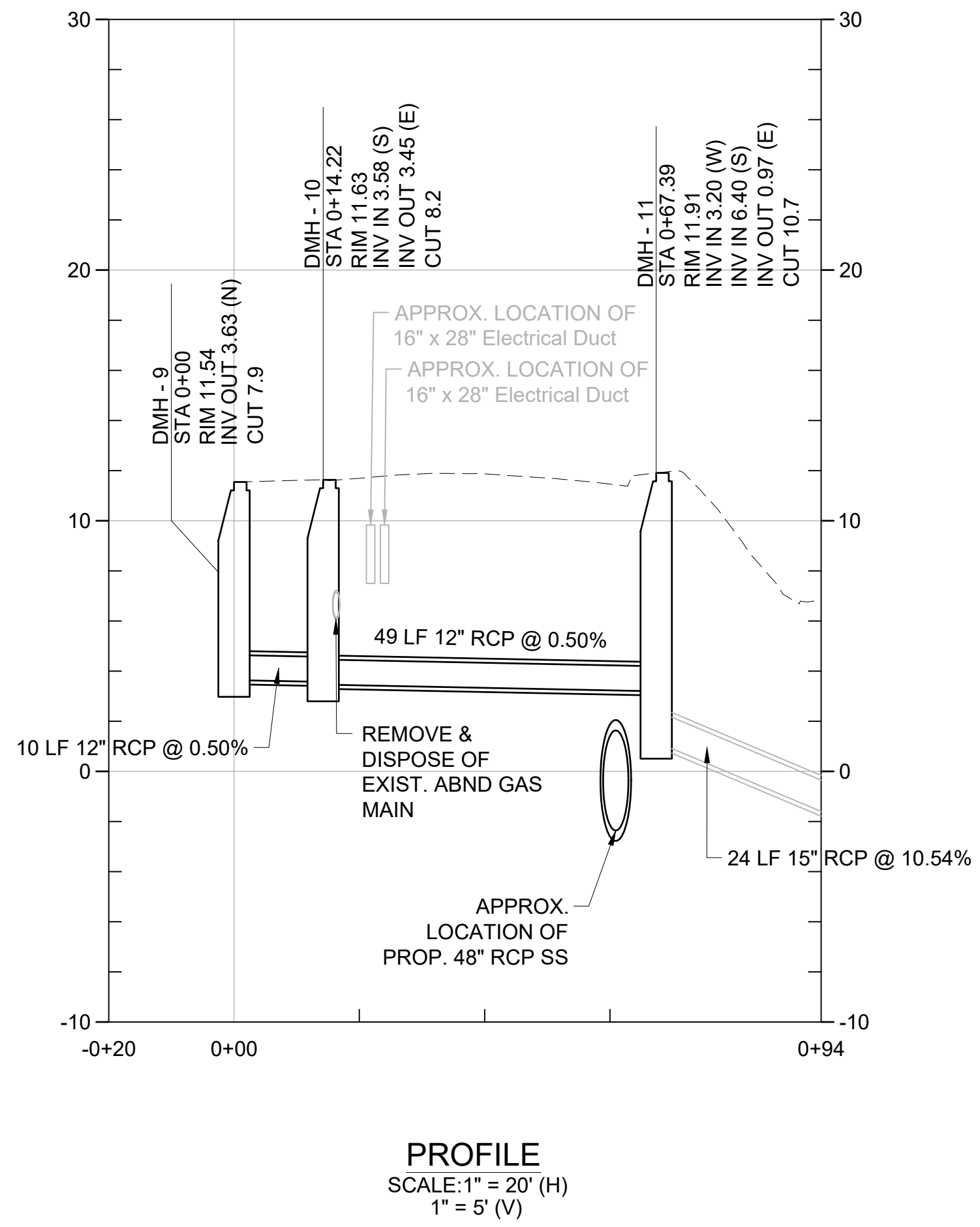
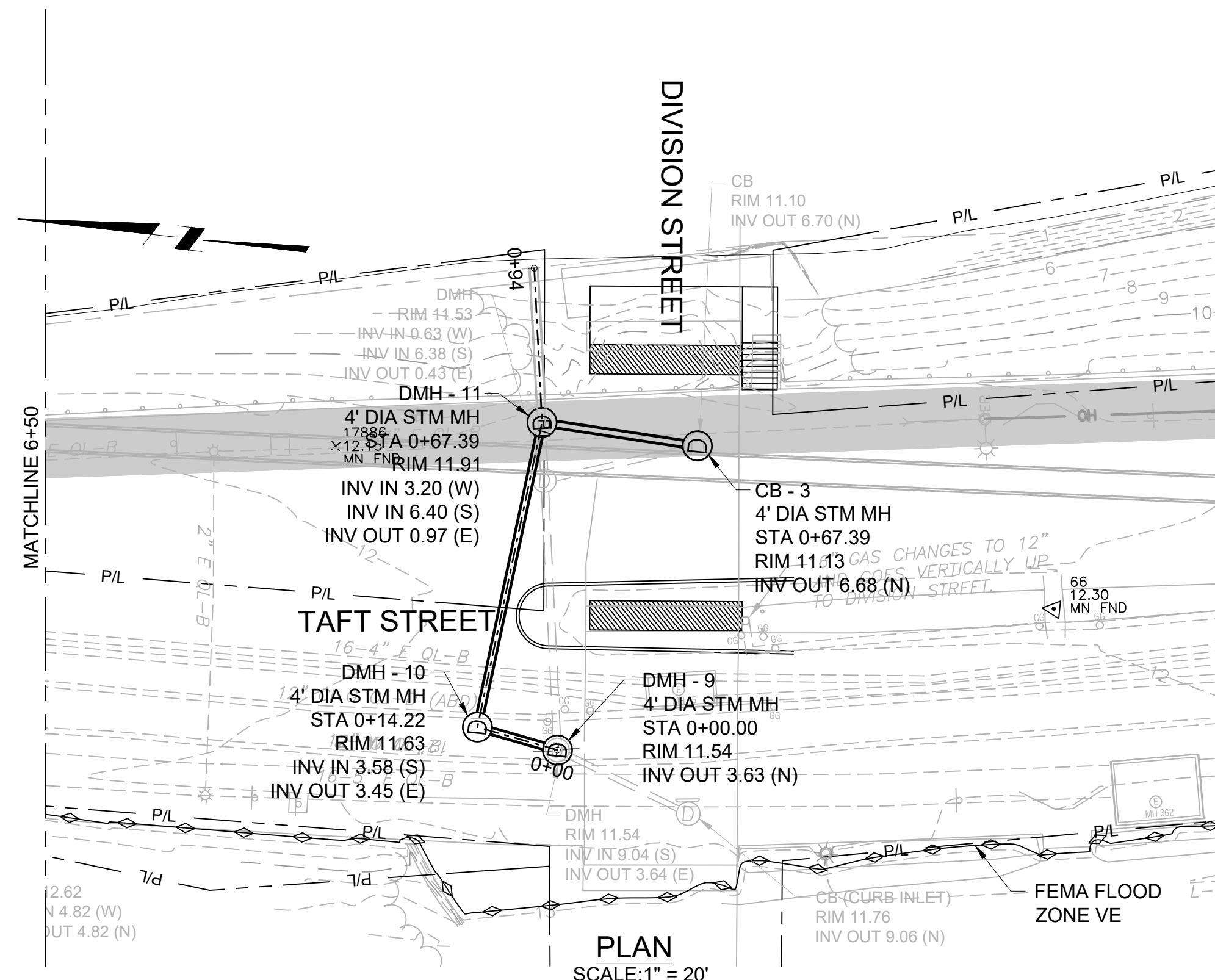
NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
DRAINAGE PLAN AND PROFILE III: STA 0+00 - 1+38

SHEET
C-15
195130227

BY: JAIMIE PAYNE

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Sheet Set\PAWT_SITE_DRAINAGE_PLAN_&_PROFILE.dwg DATE: Thursday, May 20, 2021 1:23:04 PM



- GENERAL SHEET NOTES**
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 - FLOOD PLAIN INFORMATION IS FROM FEMA, PANEL NO. 44007C0194J. FLOOD PLAIN ELEVATIONS CONVERTED FROM VERTICAL DATUM NAVD 1988 TO NGVD 1929 AND ARE APPROXIMATELY:
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SHEET KEYNOTES

REV	DATE	BY	DESCRIPTION

SCALE
AS SHOWN

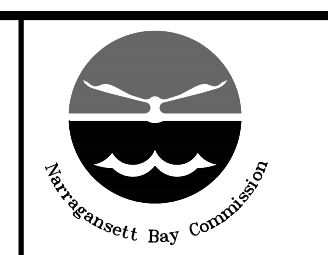
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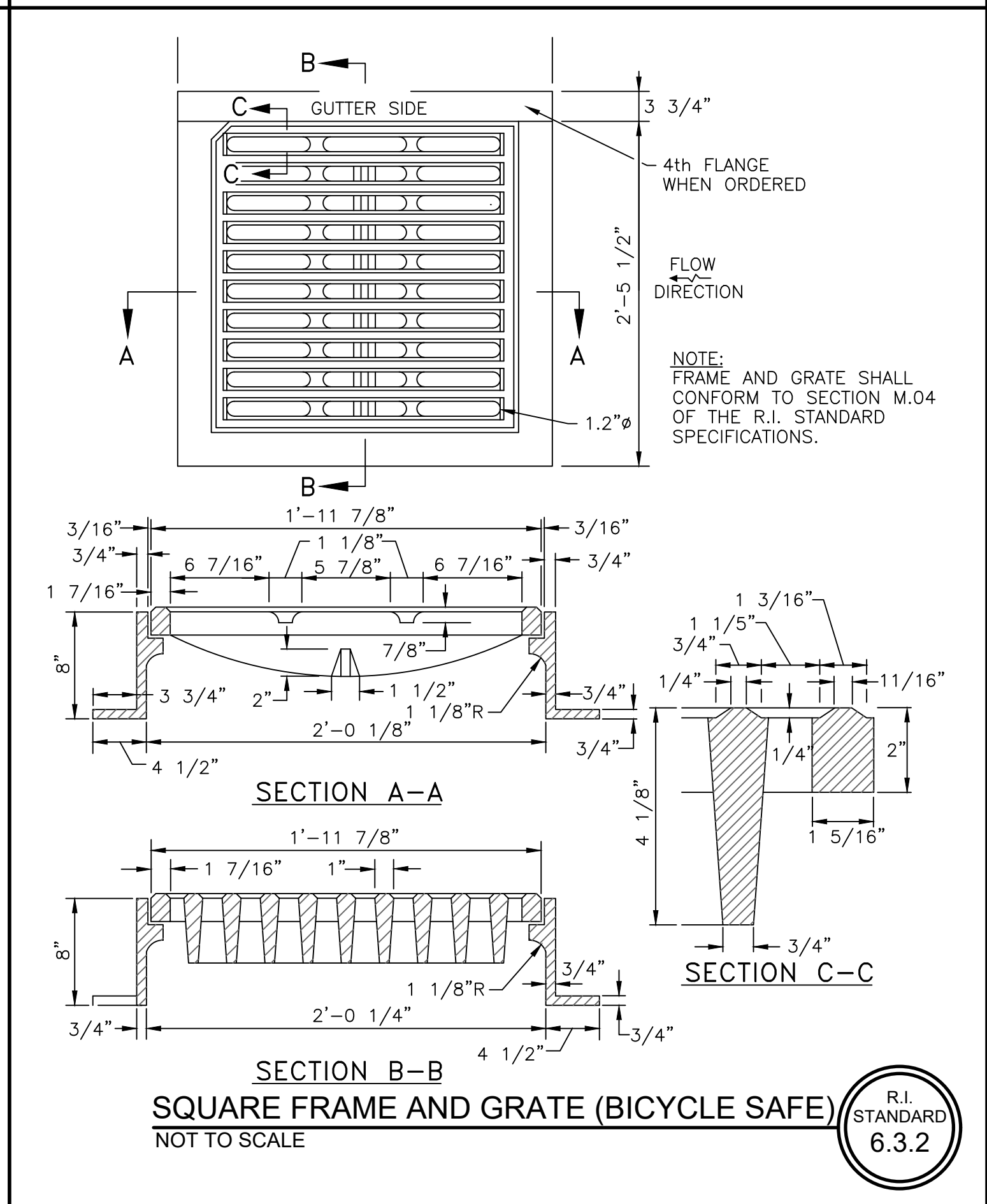
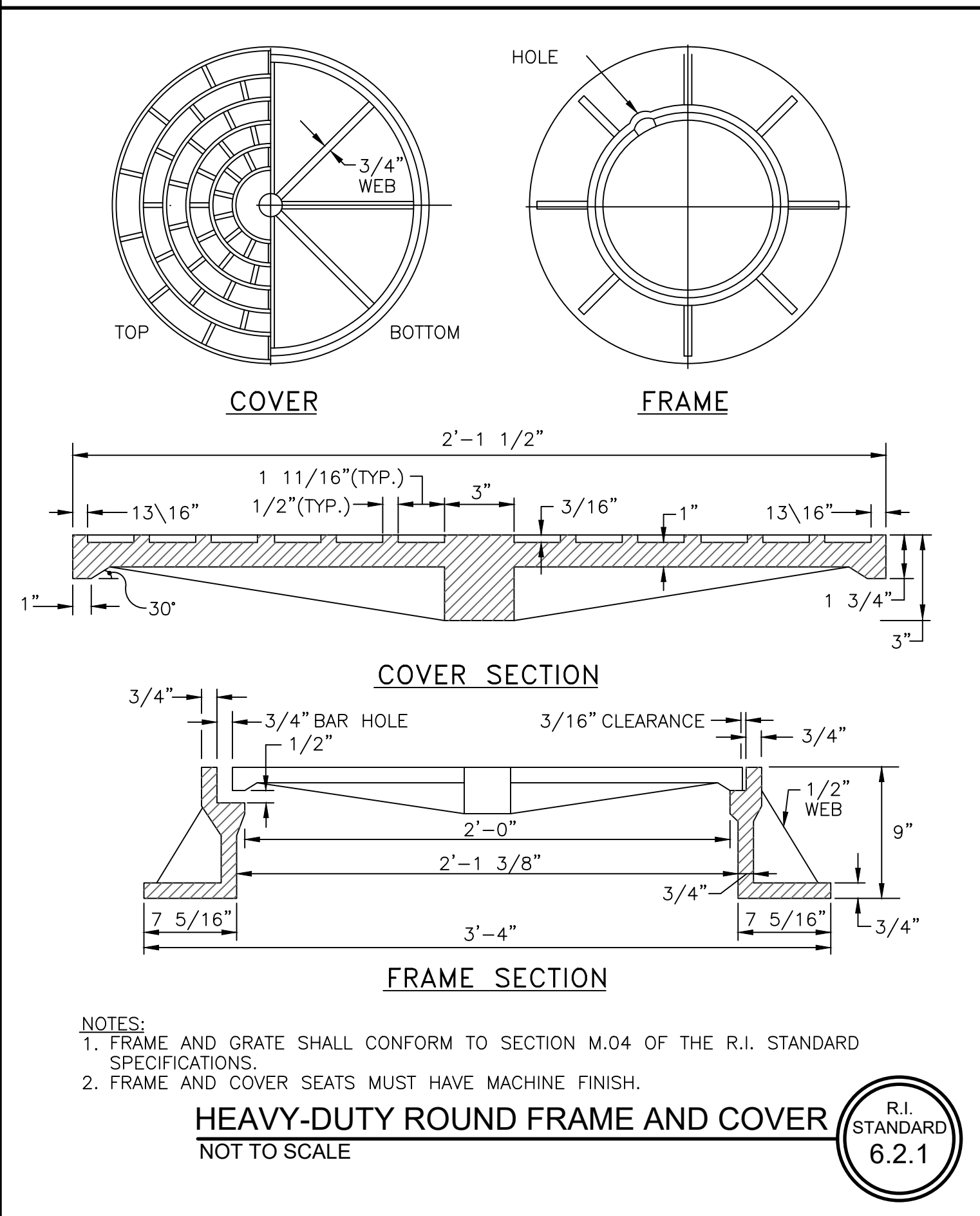
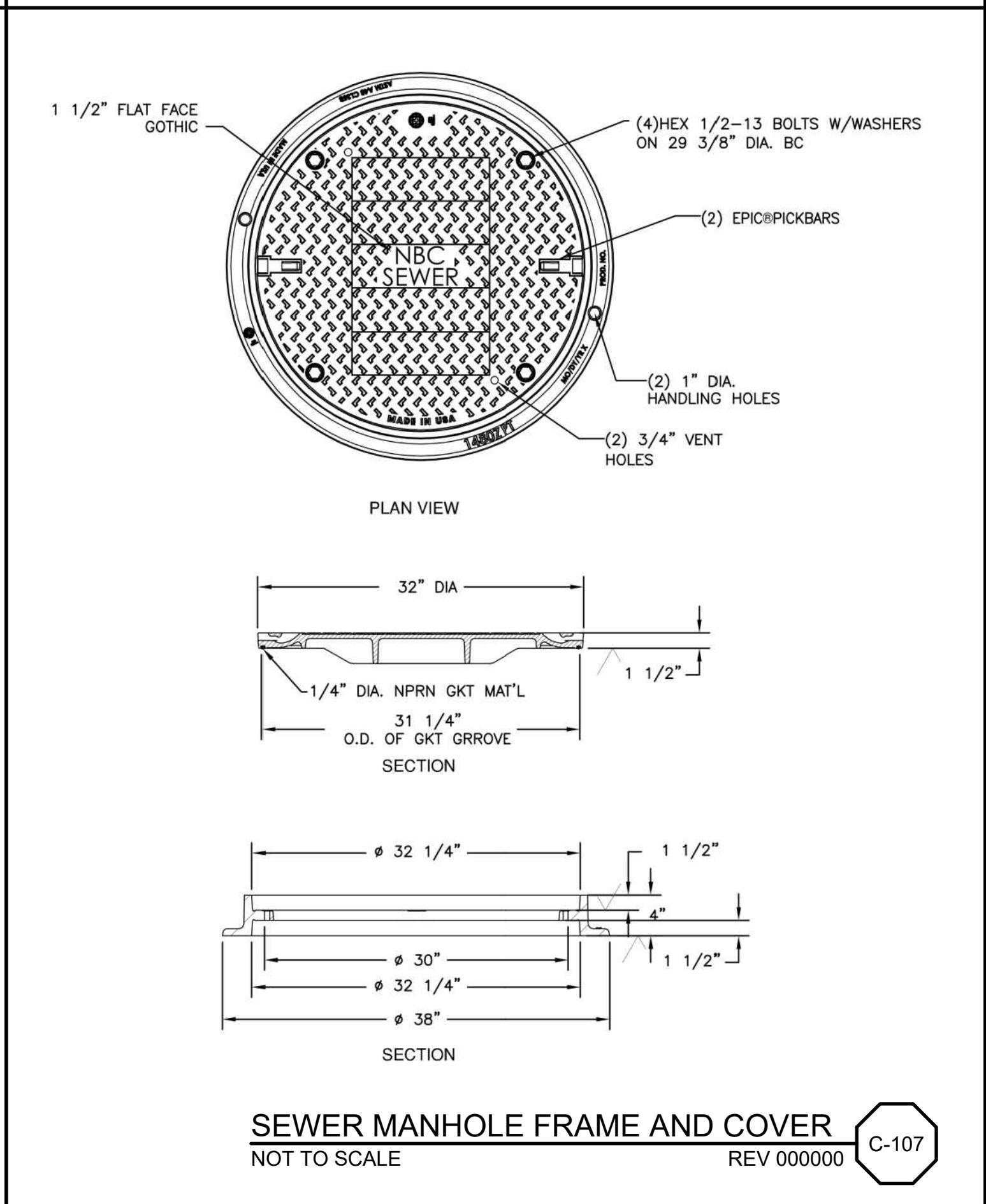
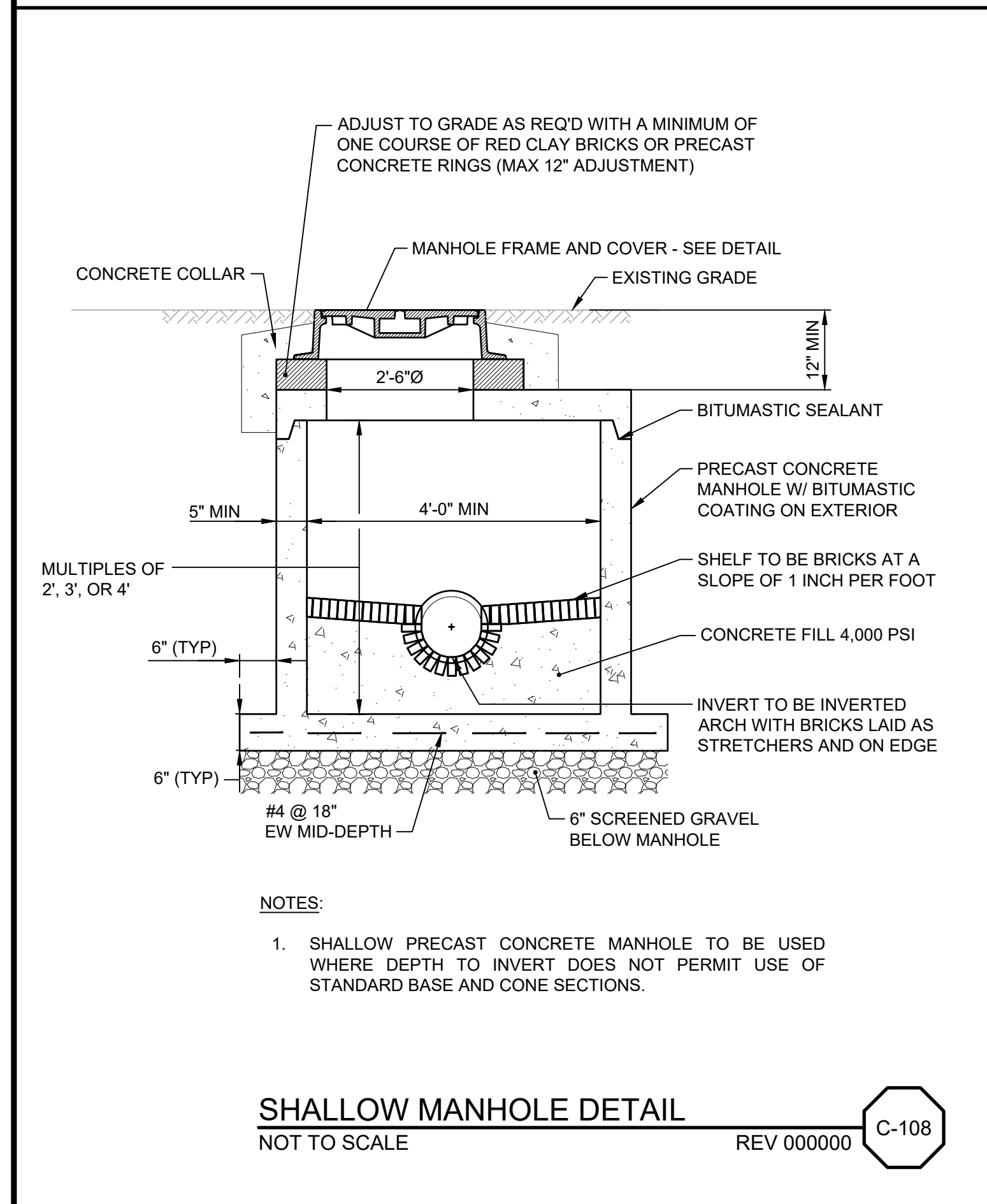
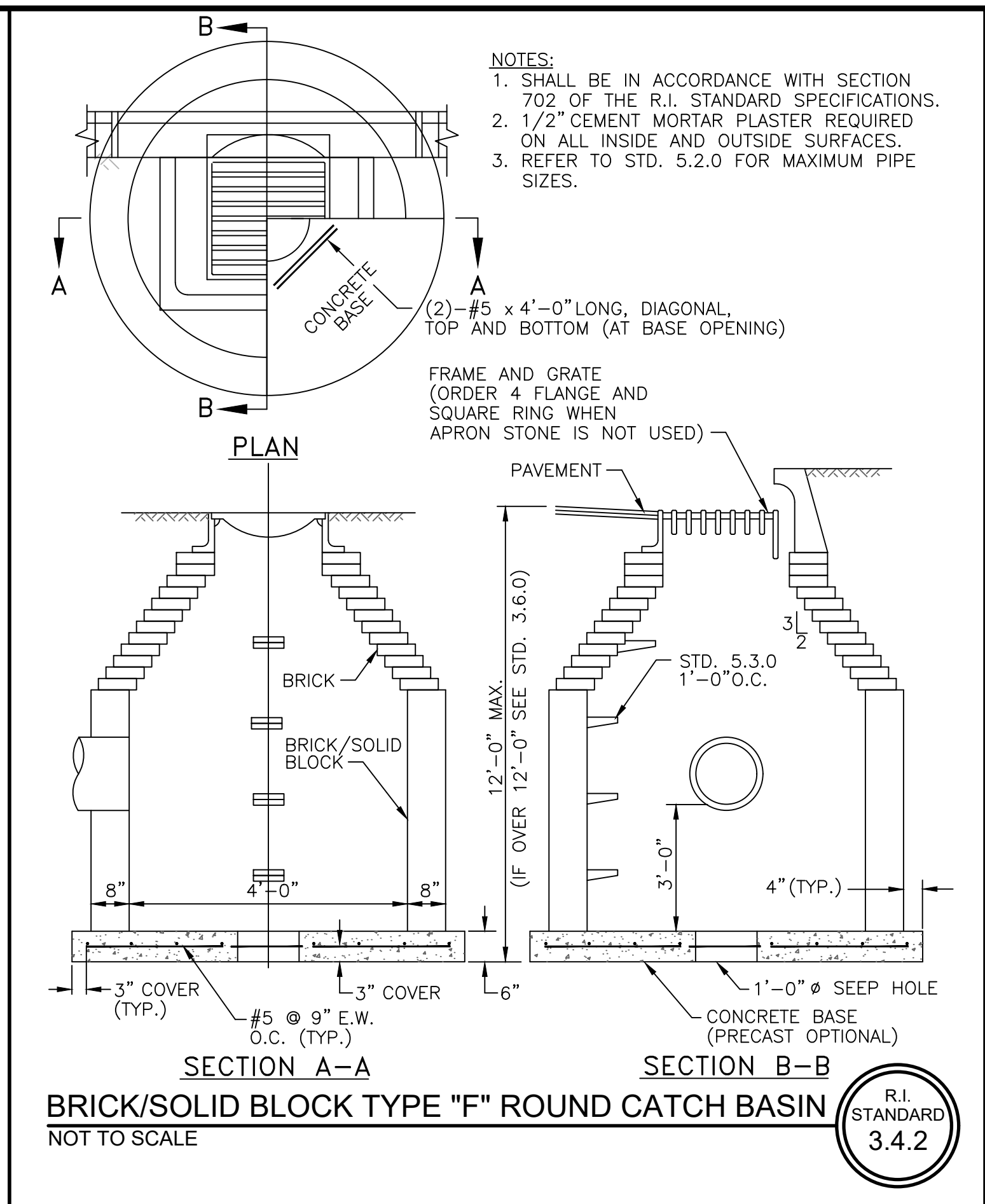
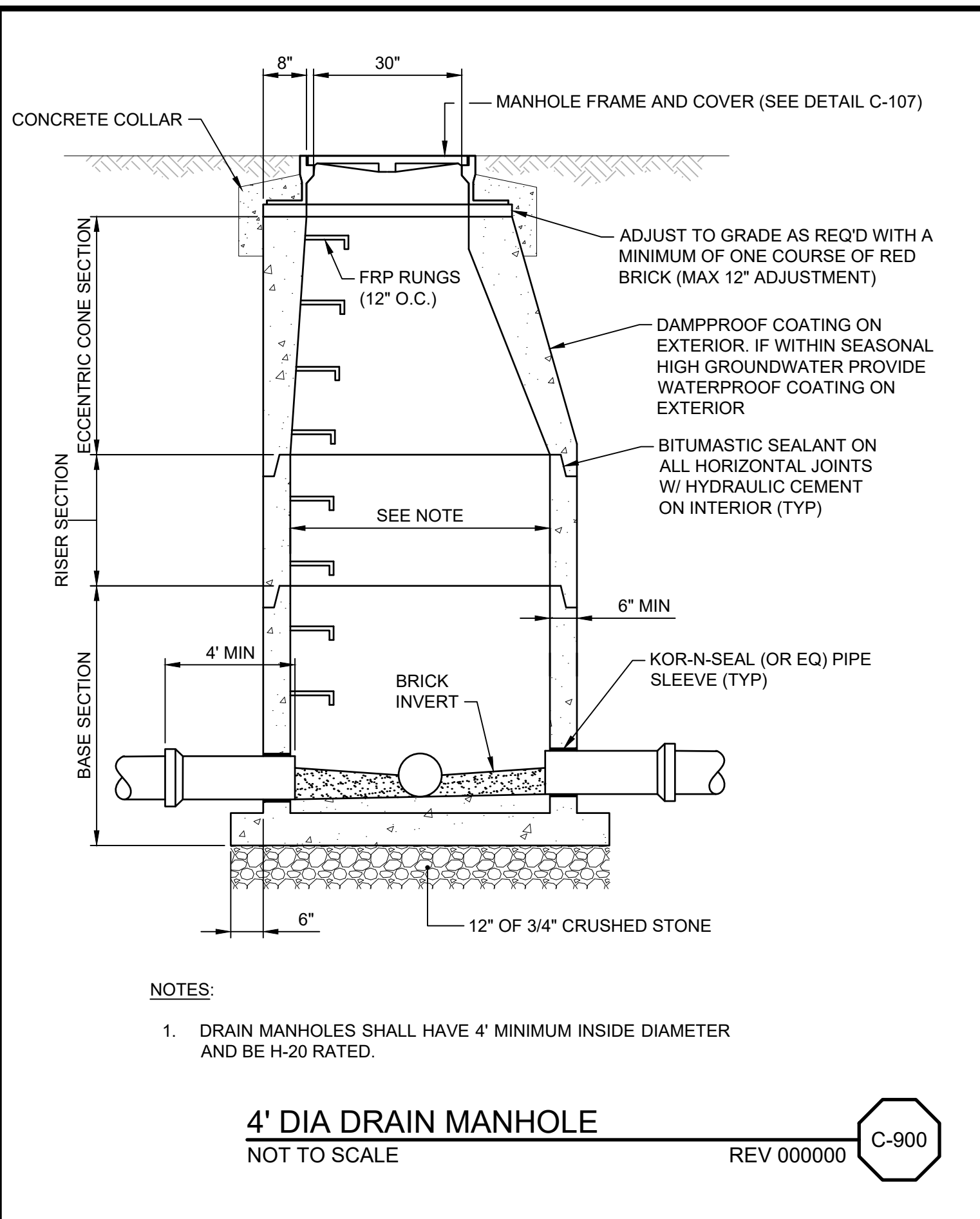
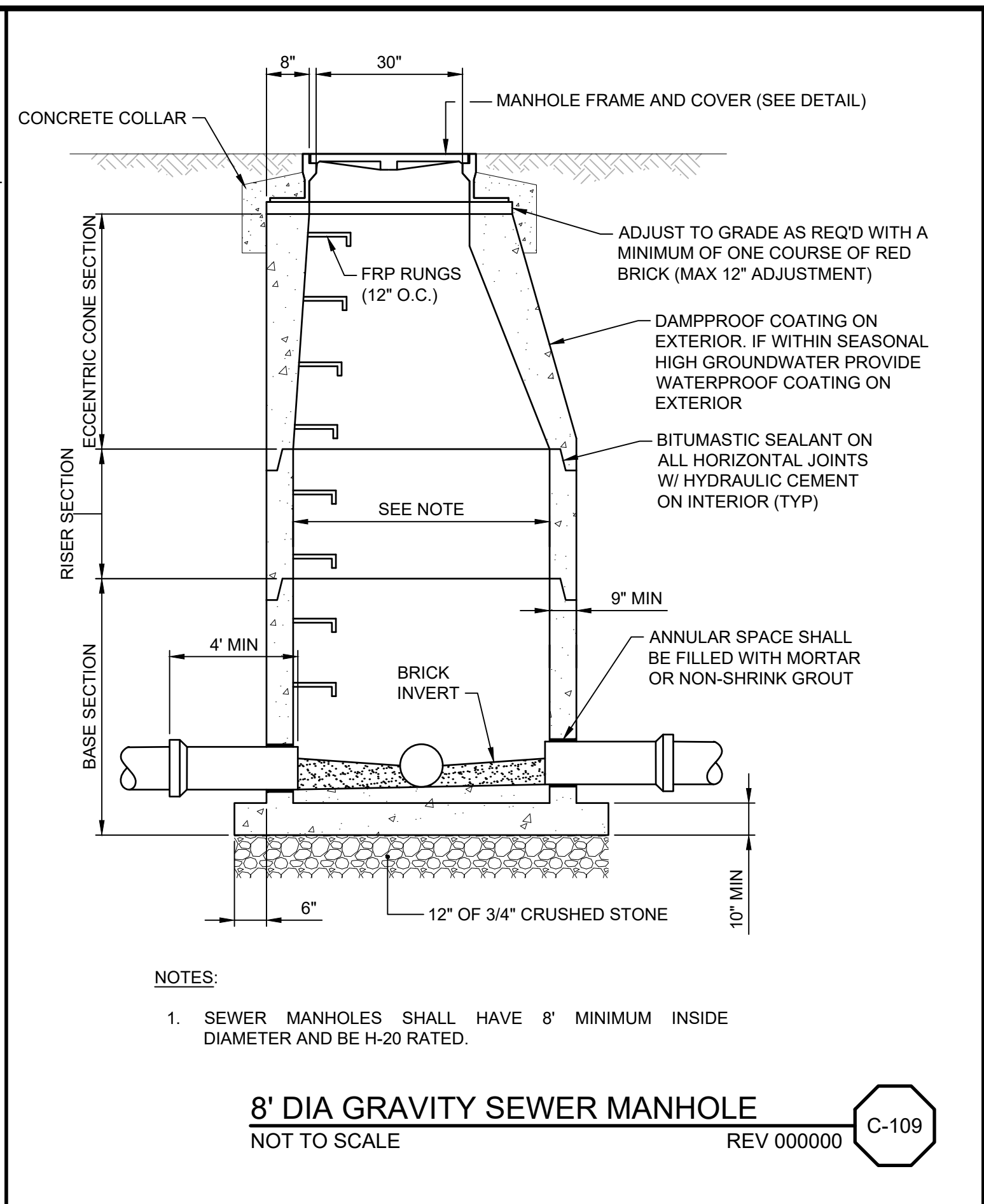
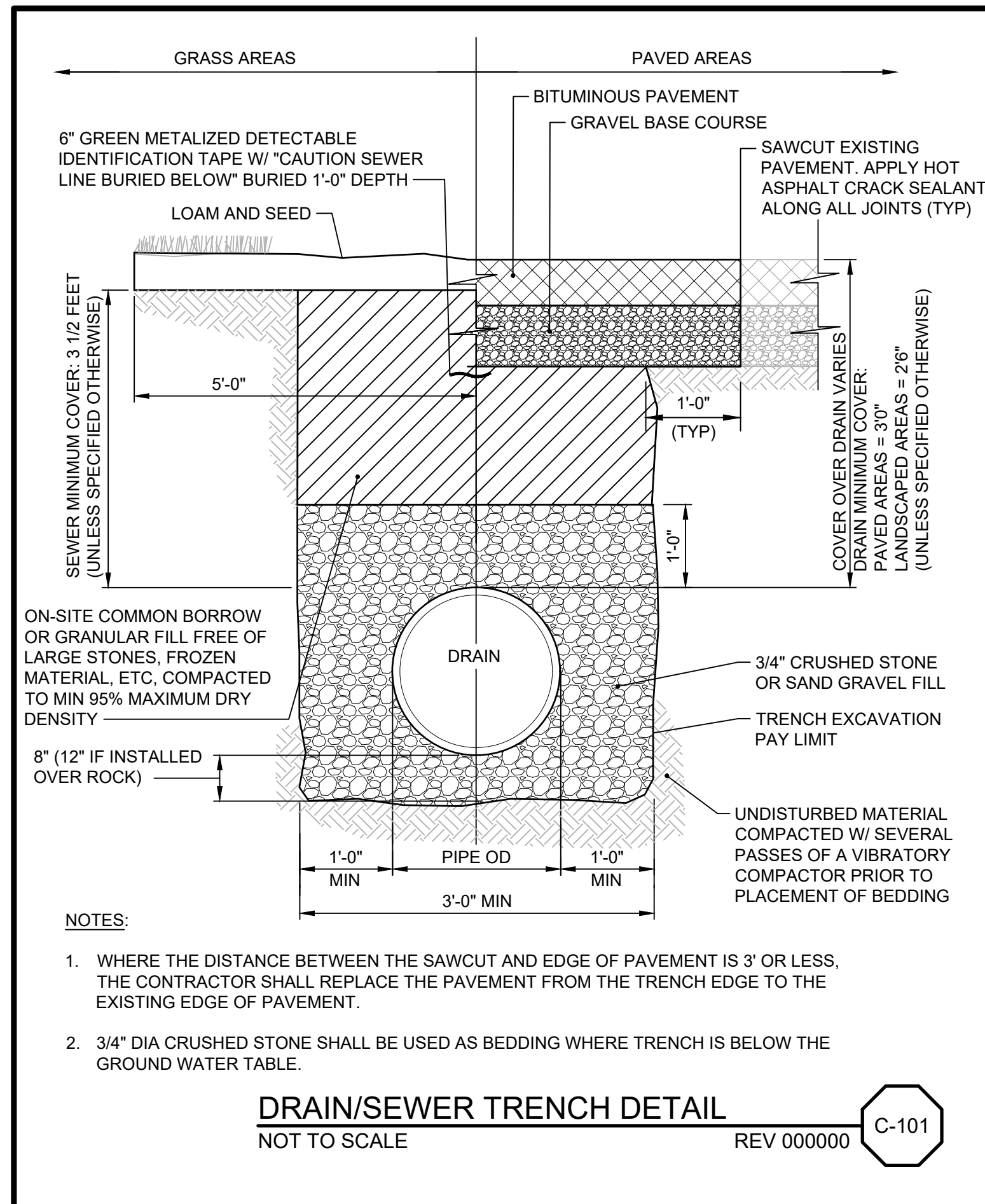
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec

NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
DRAINAGE PLAN AND PROFILE IV: STA 0+00 TO 0+94

SHEET
C-16
195130227



REV	DATE	BY	DESCRIPTION

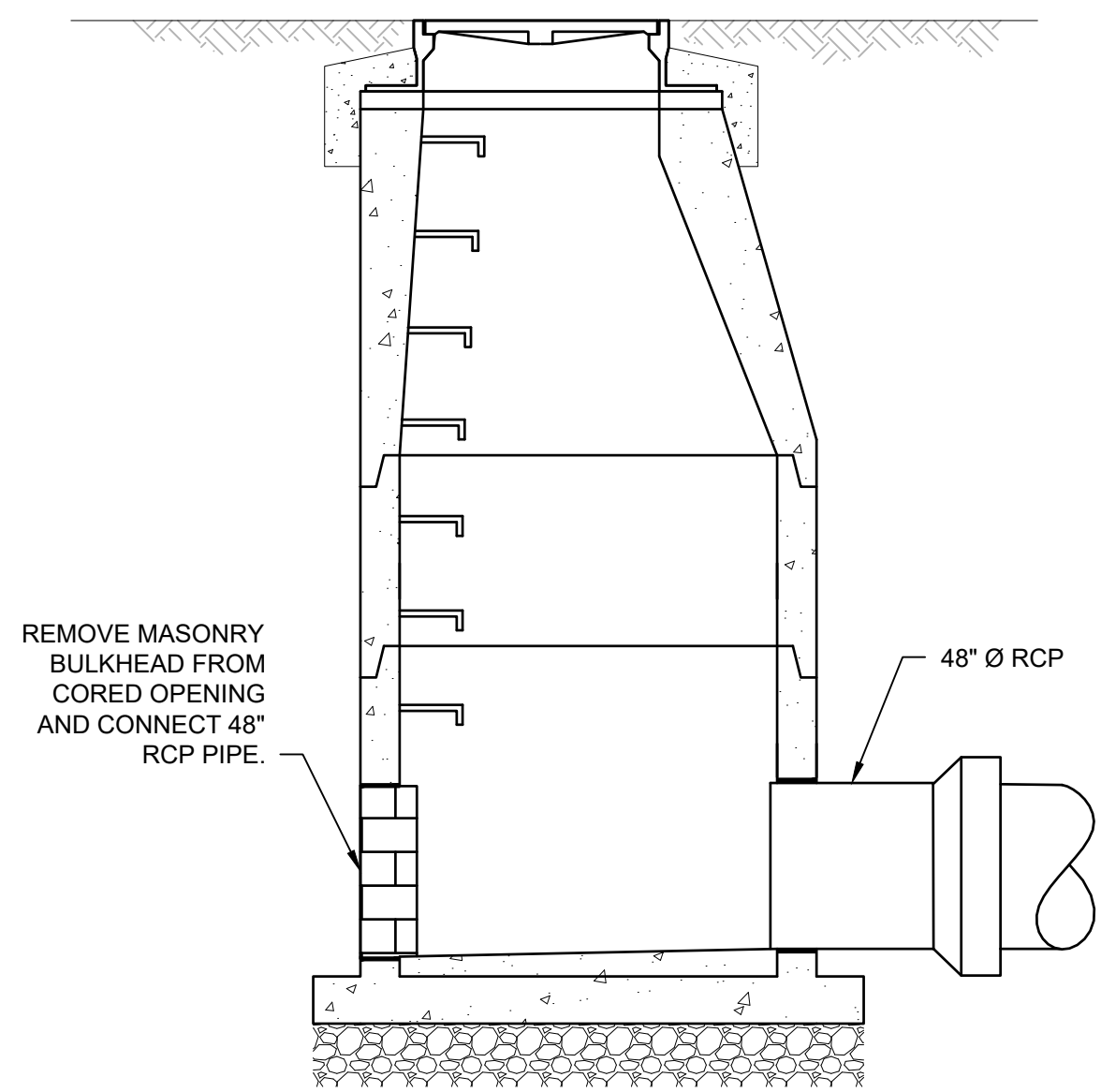
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WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALELIO

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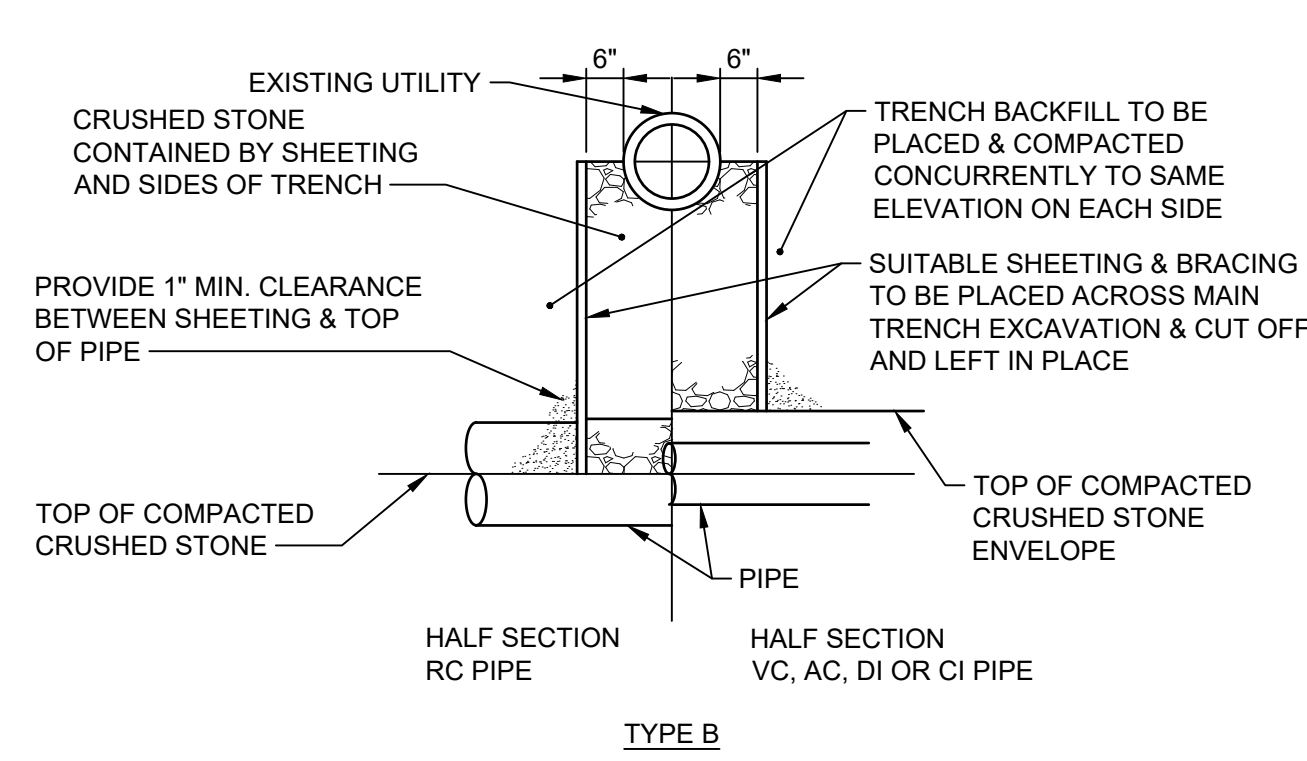
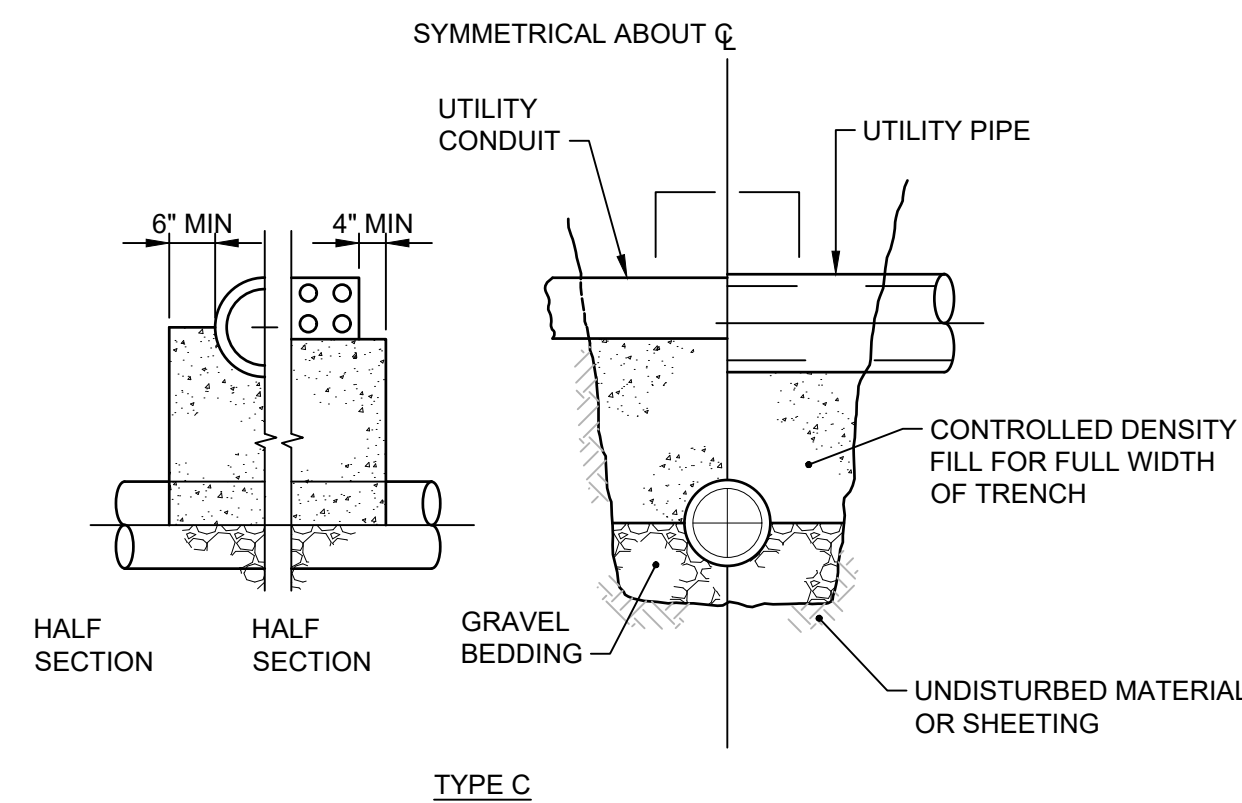
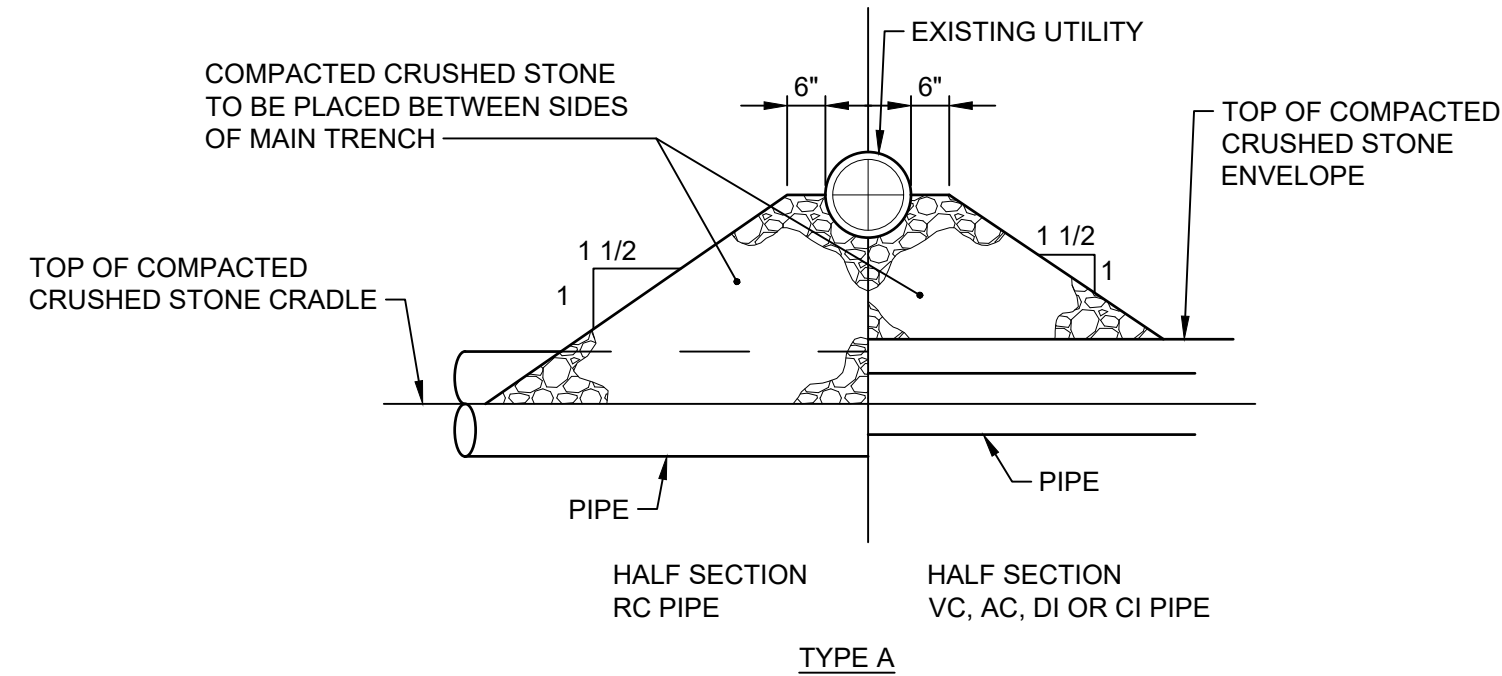
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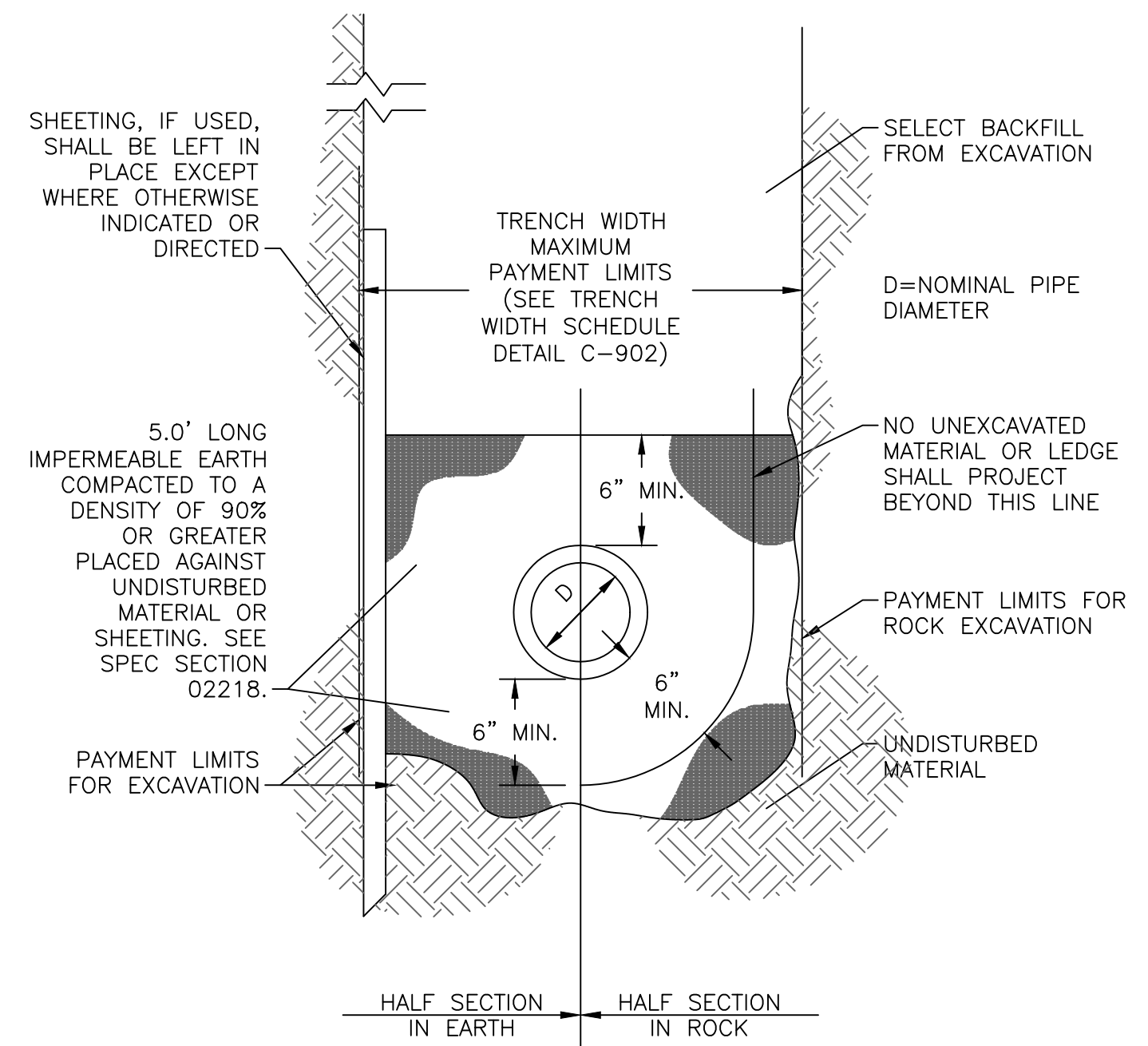




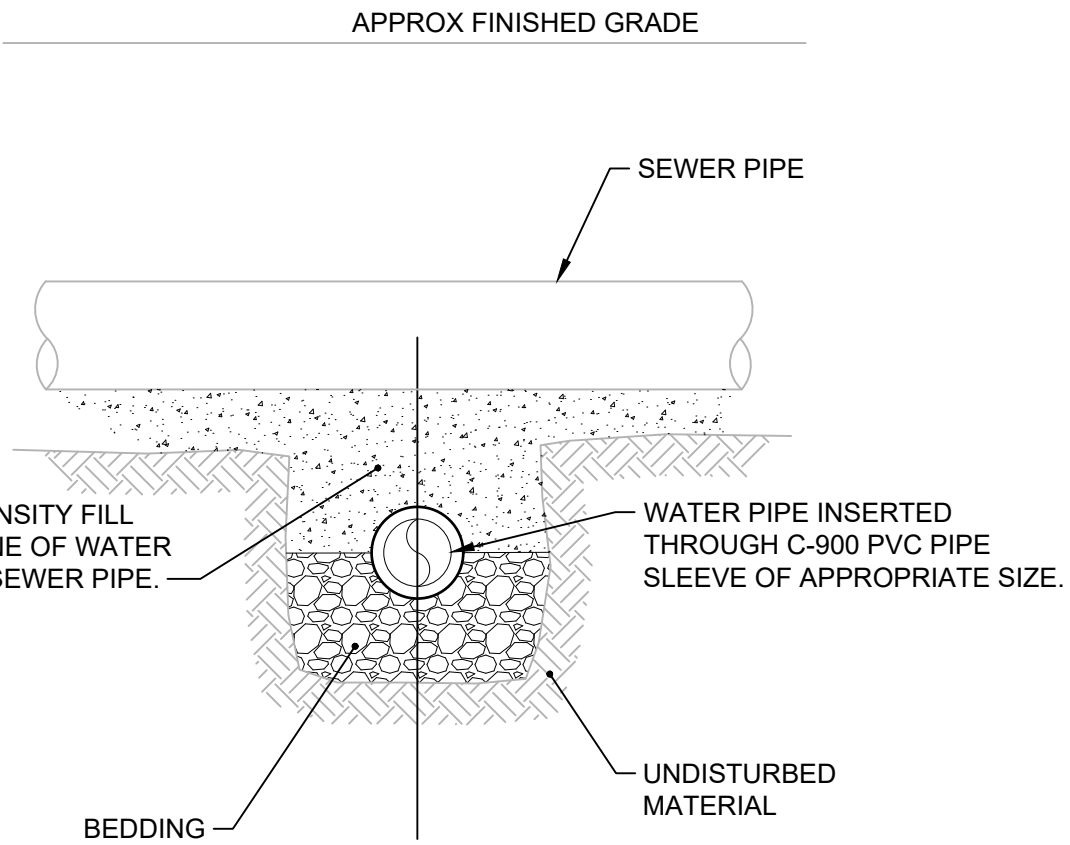
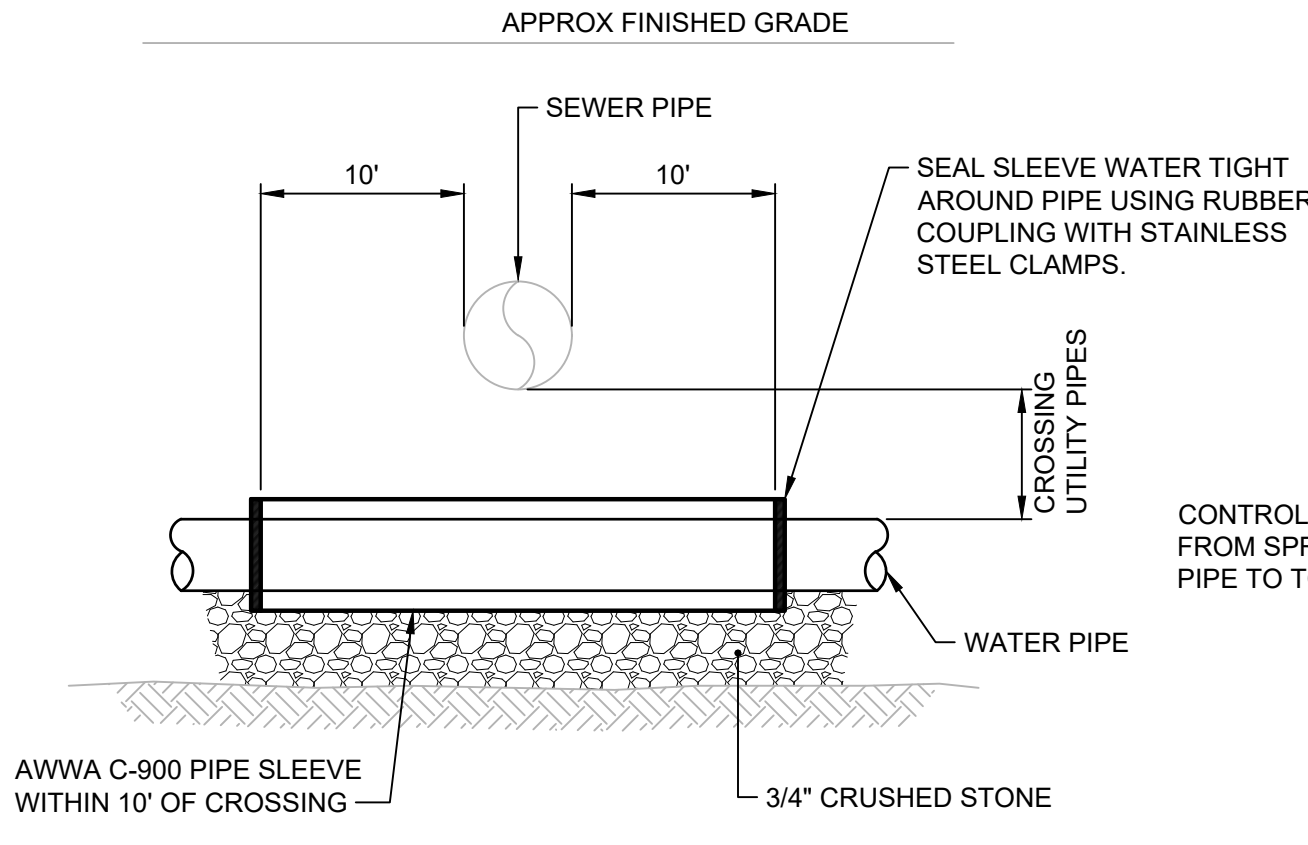
BRICK BULKHEAD DETAIL
NOT TO SCALE REV 000000 C-901



TYPICAL SUPPORTS FOR UTILITIES
NOT TO SCALE REV 000000 C-113

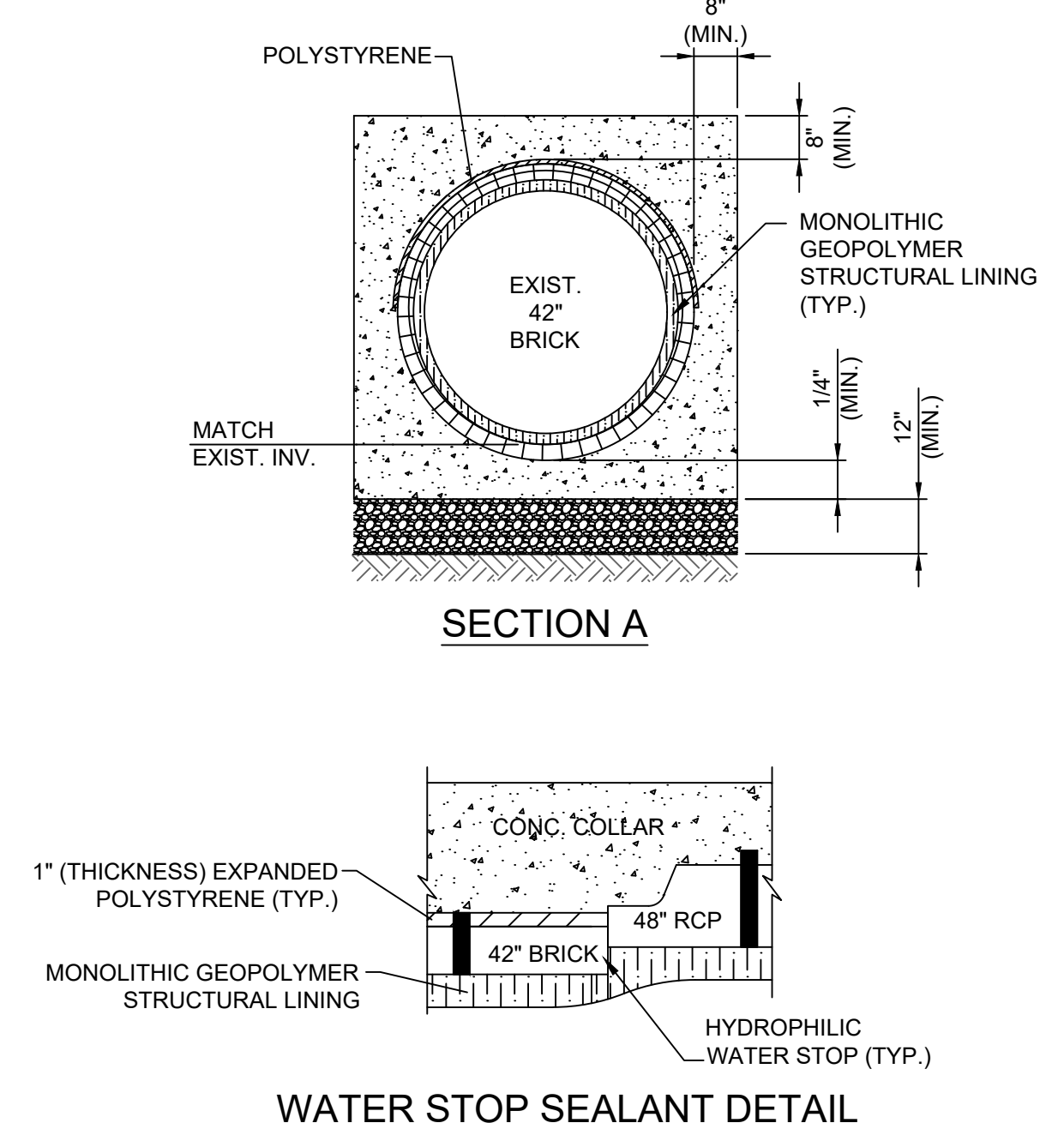
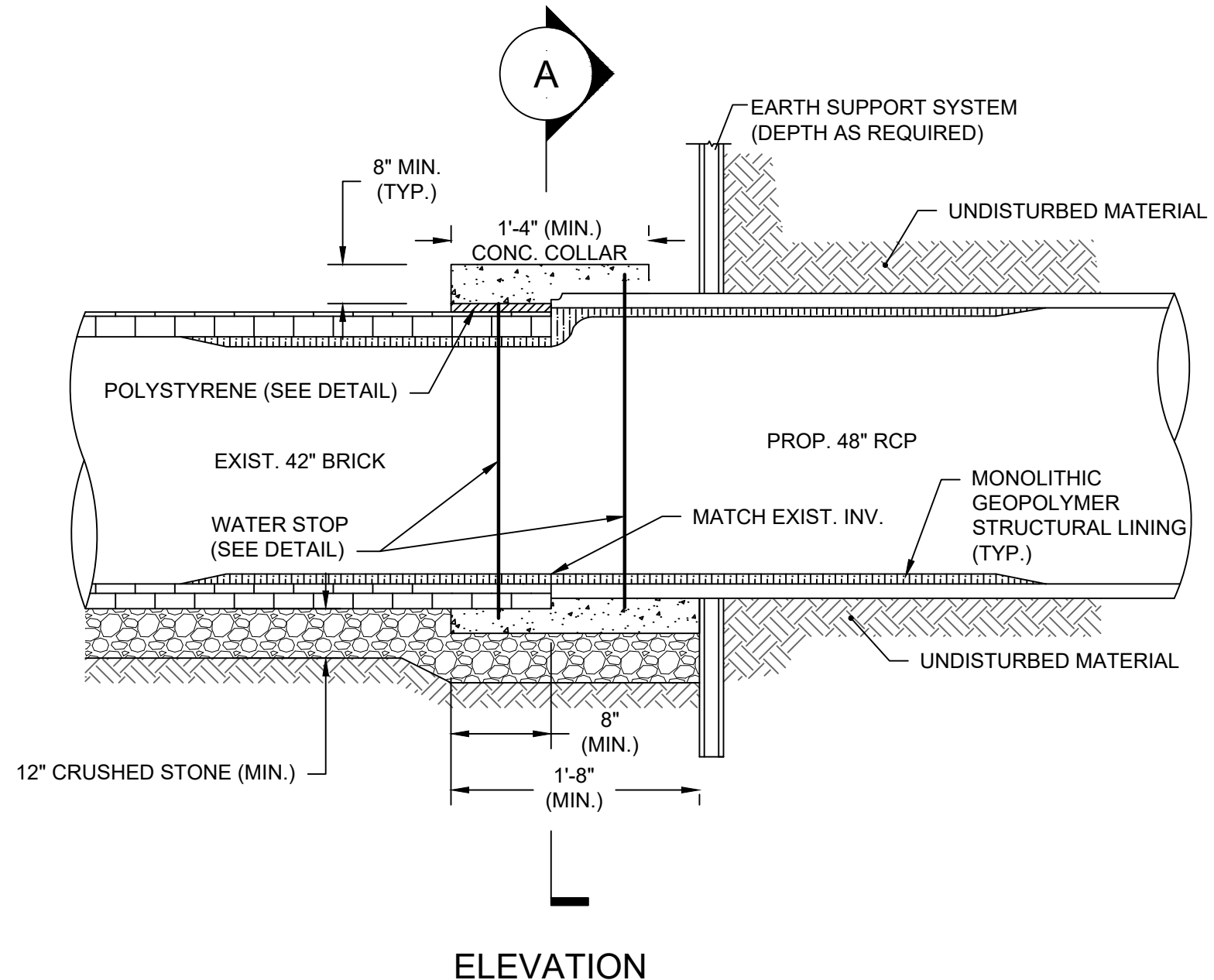


TRENCH SECTION FOR IMPERMEABLE EARTH WATER STOP
NOT TO SCALE REV 000000 C-902



- NOTES:**
- WHERE SEWER CANNOT BE INSTALLED 18" BENEATH WATER, OR WHERE SEWER AND WATER PIPING ARE WITHIN 10 FEET OF EACH OTHER, PROPOSED WATER OR SEWER PIPE SHALL BE SLEEVED INSIDE AN AWWA C-900 PVC PIPE OF APPROPRIATE DIAMETER WITHIN 10 FEET OF THE CROSSING.
 - CONTRACTOR MAY ELECT TO ENCASE PIPE WITHIN CONCRETE INSTEAD OF USING PIPE SLEEVES, AT NO ADDITIONAL EXPENSE TO THE OWNER. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AFTER 28 DAYS. CONCRETE ENCASEMENT SHALL EXTEND A MINIMUM OF 6" AROUND THE PIPE IN ALL DIRECTIONS.

WATER/SEWER CROSSING DETAIL
NOT TO SCALE REV 000000 C-112



CONCRETE COLLAR DETAIL
NOT TO SCALE REV 000000 C-109

REV	DATE	BY	DESCRIPTION

SCALE
AS SHOWN

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DESIGNED C. CRONIN
DRAWN C. MARSHALL
CHECKED J. D'ALELIO

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec PARE

NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS II

SHEET
C-18
195130227

DIAMETER OF PIPE D IN INCHES	MAXIMUM PAYMENT LIMITS					
	TRENCH WIDTH IN FEET		TEMPORARY TRENCH PAVEMENT WIDTH IN FEET		PERMANENT TRENCH PAVEMENT WIDTH IN FEET*	
	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH
	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'
12 AND SMALLER	5.00	6.00	6.00	7.00	8.00	9.00
15	5.25	6.25	6.25	7.25	8.25	9.25
18	5.50	6.50	6.50	7.50	8.50	9.50
21	5.75	6.75	6.75	7.75	8.75	9.75
24	6.00	7.00	7.00	8.00	9.00	10.00
27	6.25	7.25	7.25	8.25	9.25	10.25
30	6.50	7.50	7.50	8.50	9.50	10.50
36	7.00	8.00	8.00	9.00	10.00	11.00
42	7.50	8.50	8.50	9.50	10.50	11.50
48	8.00	9.00	9.00	10.00	11.00	12.00
54	8.50	9.50	9.50	10.50	11.50	12.50
60	9.00	10.00	10.00	11.00	12.00	13.00
66	9.50	10.50	10.50	11.50	12.50	13.50
72	10.00	11.00	11.00	12.00	13.00	14.00

TRENCH WIDTH SCHEDULE

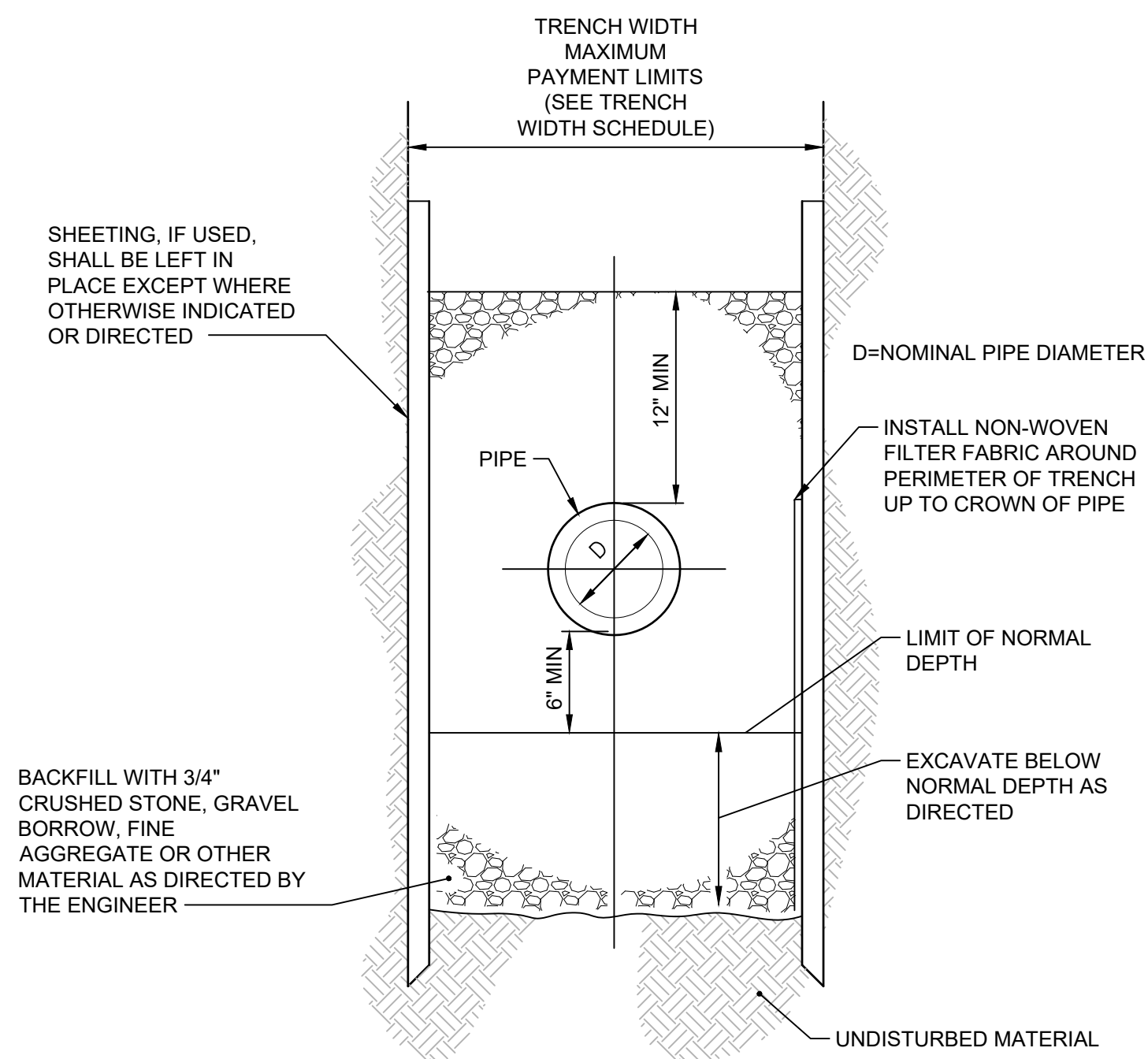
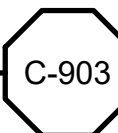
NOTES:

- PERMANENT TRENCH PAVEMENT INCLUDES 1' CUT BACK OF TEMPORARY PAVEMENT ALONG EACH SIDE OF THE TRENCH.
- TRENCH DEPTH MEASURED FROM THE EXISTING GROUND SURFACE TO 6" BELOW THE BOTTOM OF THE CONSTRUCTED PIPE.
- QUANTITIES FOR PAYMENT SHALL BE IN ACCORDANCE WITH THE ABOVE LIMITS OR THE ACTUAL WIDTHS, WHICHEVER IS LESS.

TRENCH WIDTH SCHEDULE

NOT TO SCALE

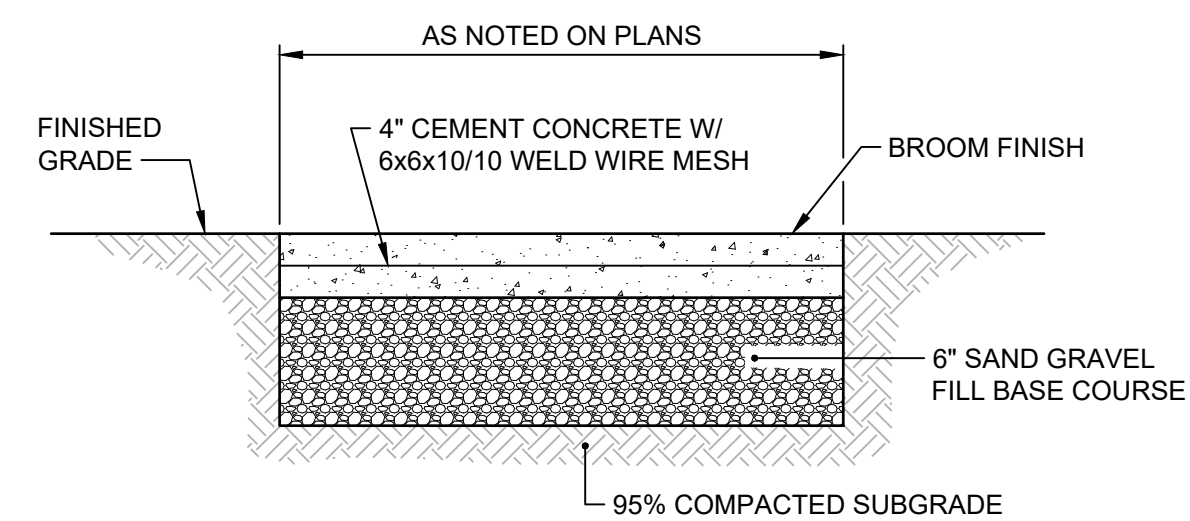
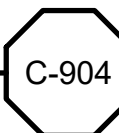
REV 000000



TRENCH SECTION (TO BE USED WHERE UNSUITABLE FOUNDATION MATERIAL EXISTS BELOW NORMAL DEPTH)

NOT TO SCALE

REV 000000



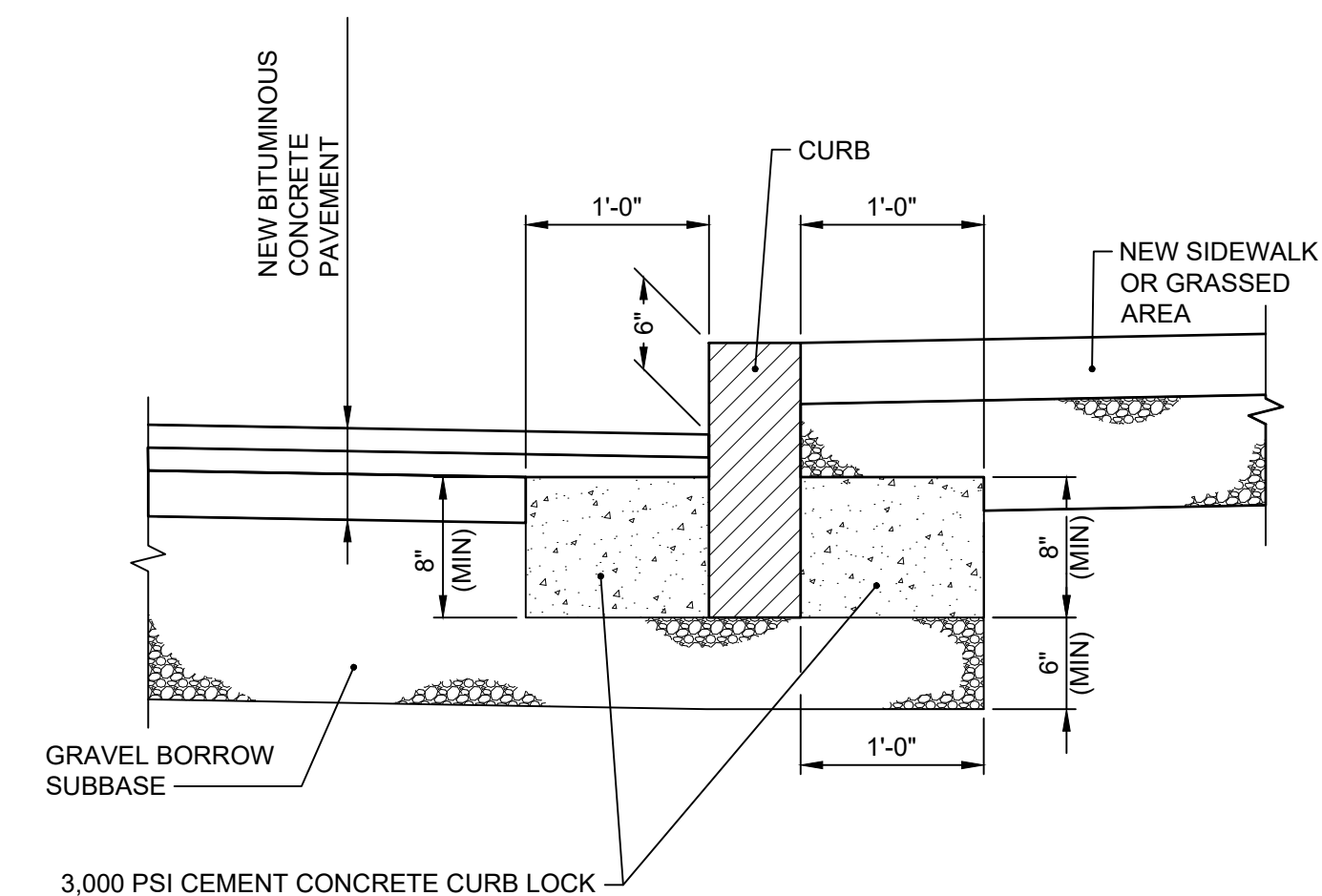
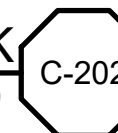
NOTES:

- CONCRETE SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
- WIRE MESH SHALL BE IN ACCORDANCE WITH SECTION M.05.02 OF THE RI STANDARD SPECIFICATIONS.

TYPICAL CEMENT CONCRETE SIDEWALK

NOT TO SCALE

REV 000000



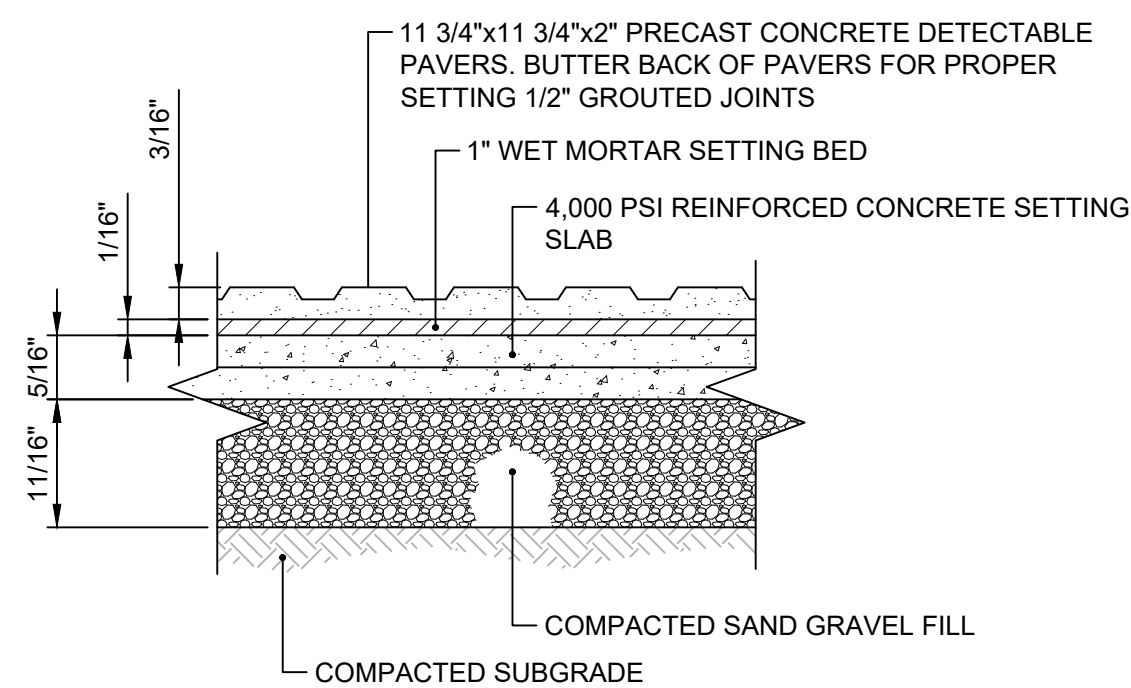
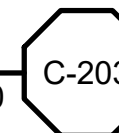
NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
- PROVIDE CEMENT CONCRETE CURB LOCK ON ALL CURBS.

CURB SETTING DETAIL

NOT TO SCALE

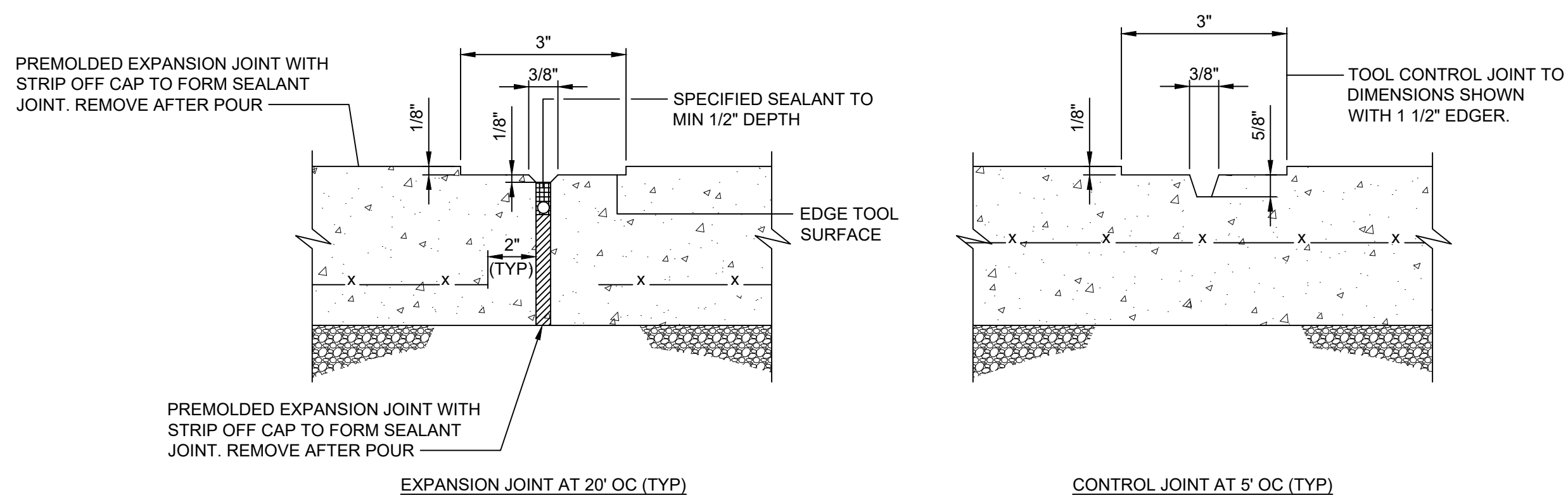
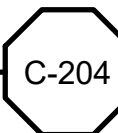
REV 000000



DETECTABLE WARNING PAVER

NOT TO SCALE

REV 000000



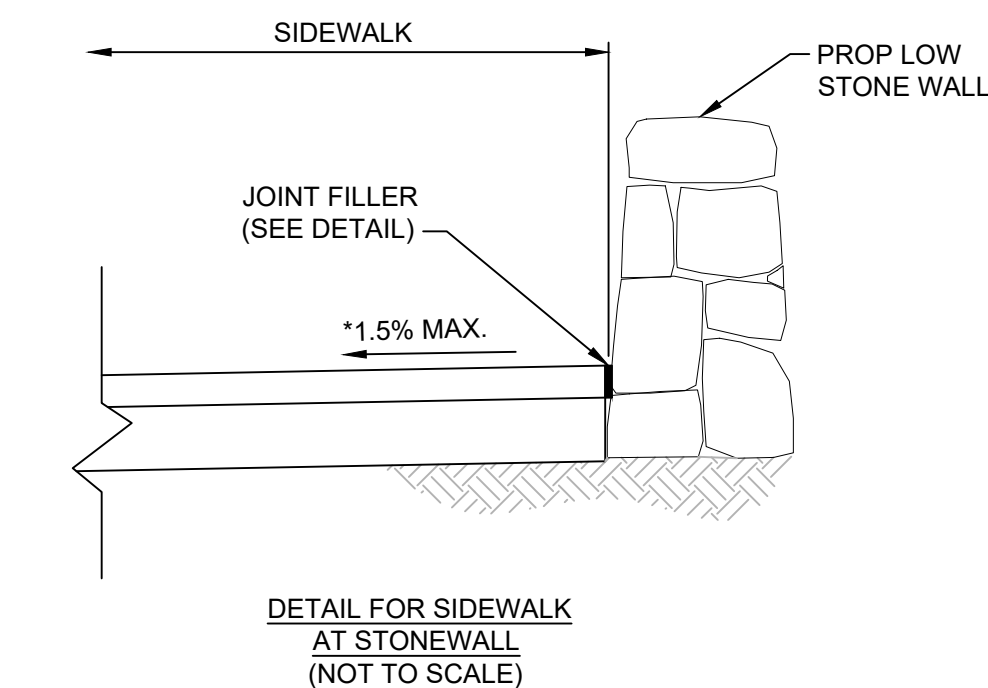
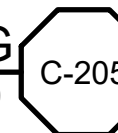
NOTES:

- EXPANSION JOINTS (EJ) 20 FEET OC UNLESS OTHERWISE NOTED.
- CONTROL JOINTS (CJ) 5 FEET OC UNLESS OTHERWISE NOTED.
- WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.

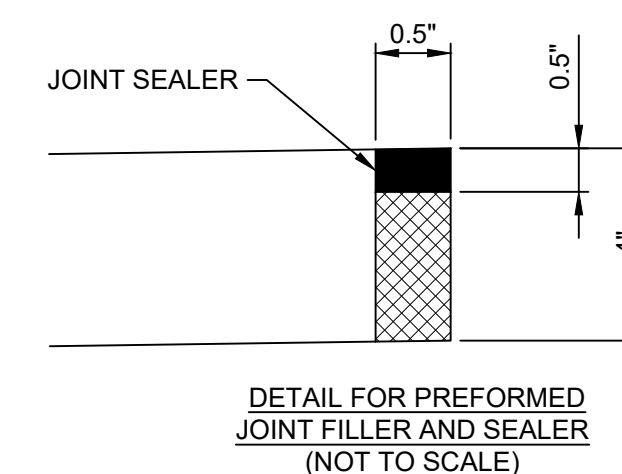
EXPANSION AND CONTROL JOINTS FOR SIDEWALK PAVING

NOT TO SCALE

REV 000000



DETAIL FOR SIDEWALK AT STONEWALL (NOT TO SCALE)

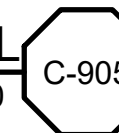


DETAIL FOR PREFORMED JOINT FILLER AND SEALER (NOT TO SCALE)

DETAIL FOR SIDEWALK AT STONE WALL

NOT TO SCALE

REV 000000



REV	DATE	BY	DESCRIPTION

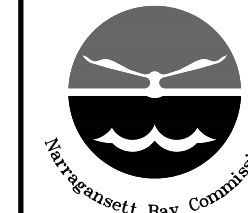
SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1\"/>

DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALESSIO

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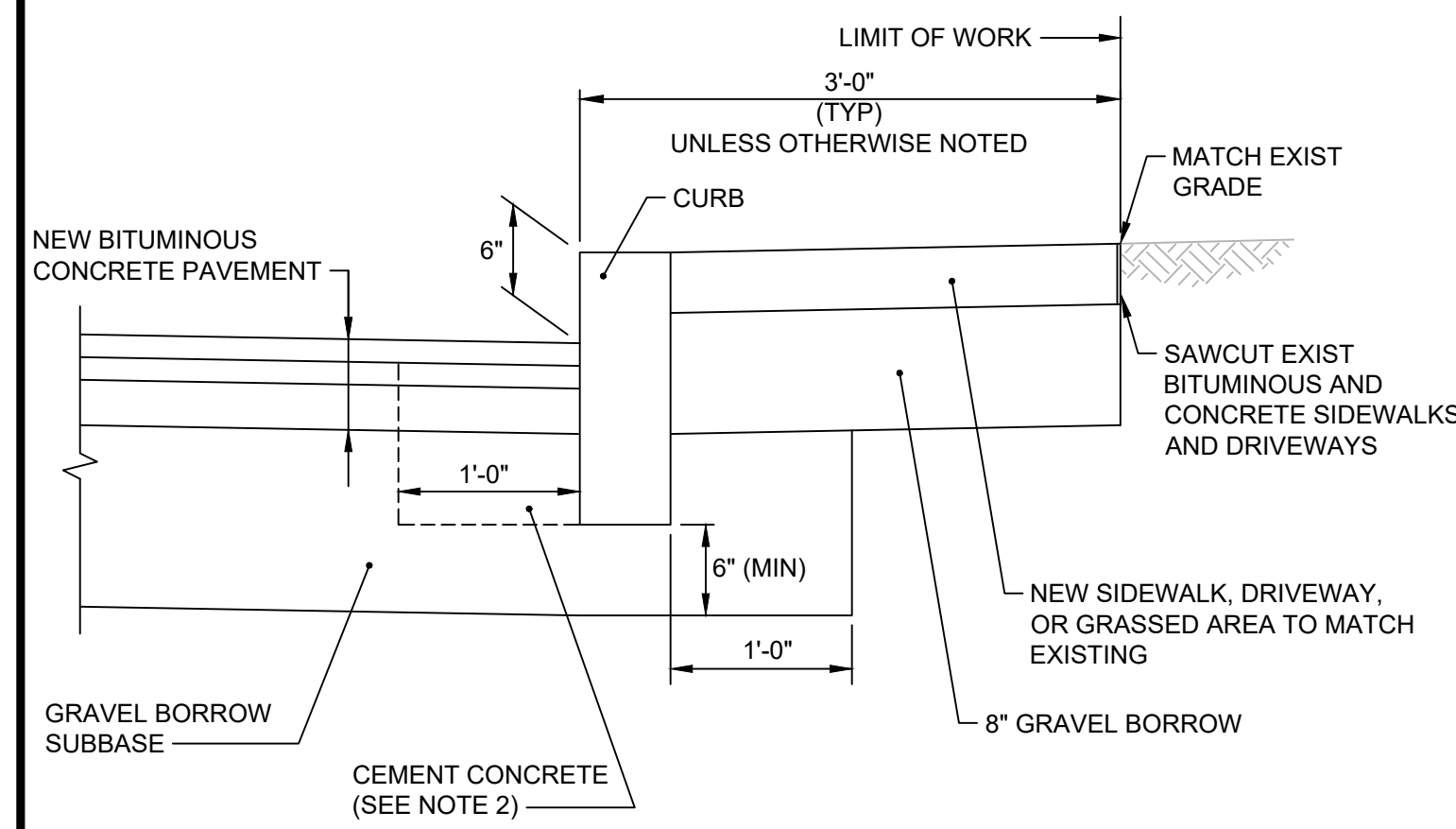
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec

NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS III

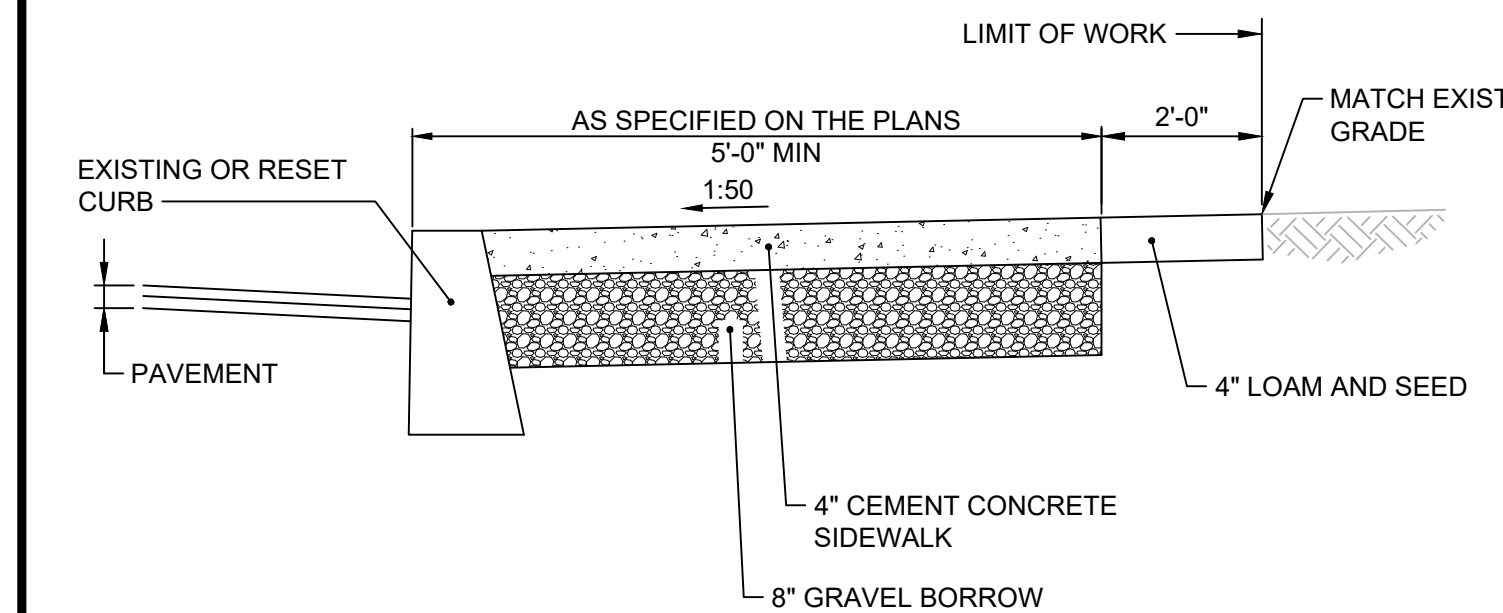
SHEET
C-19
195130227



NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE RI STANDARD SPECIFICATIONS.
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.
3. ON CITY STREETS, CURBING SHALL CONFORM TO PROVIDENCE STANDARDS.

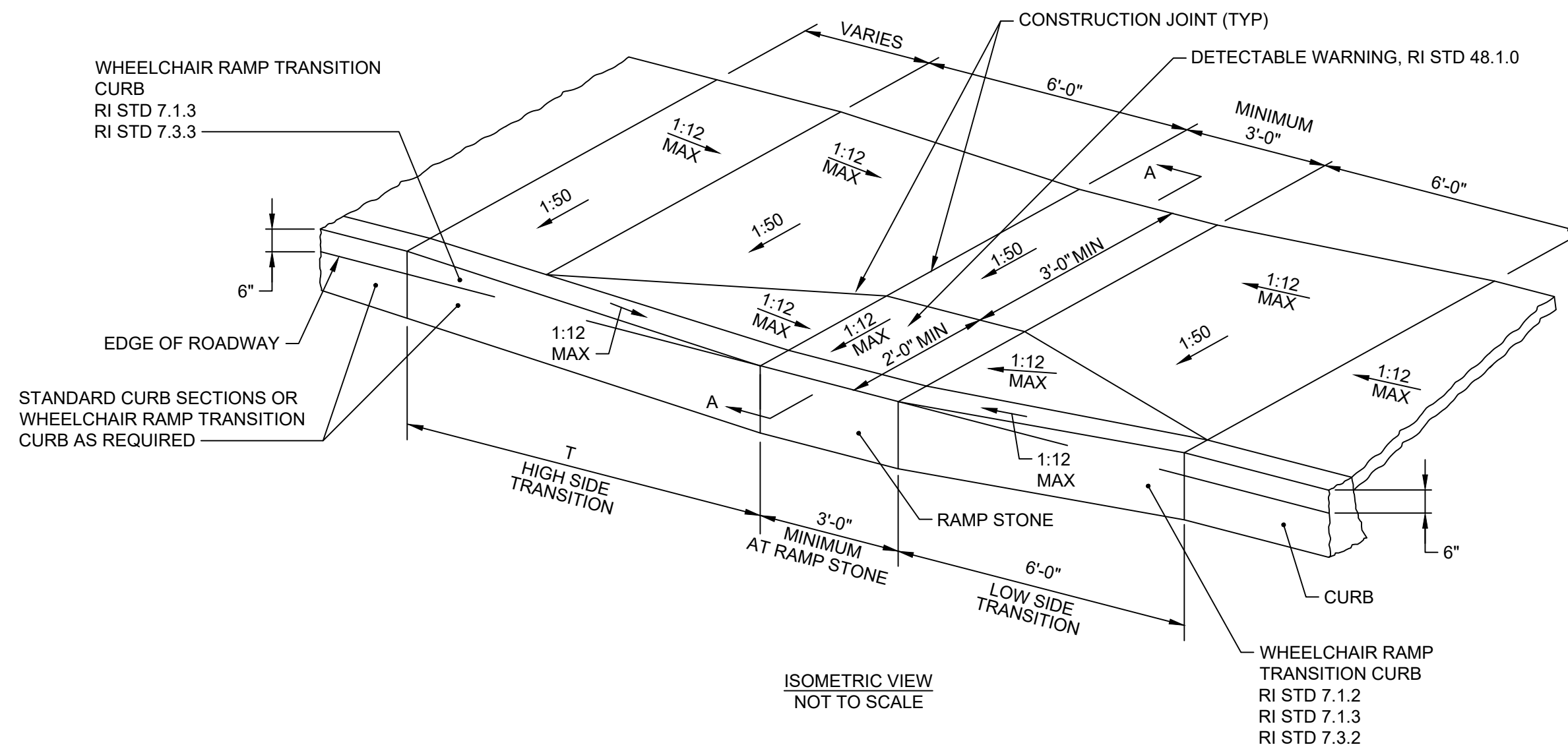
CURB SETTING DETAIL
NOT TO SCALE



NOTES:

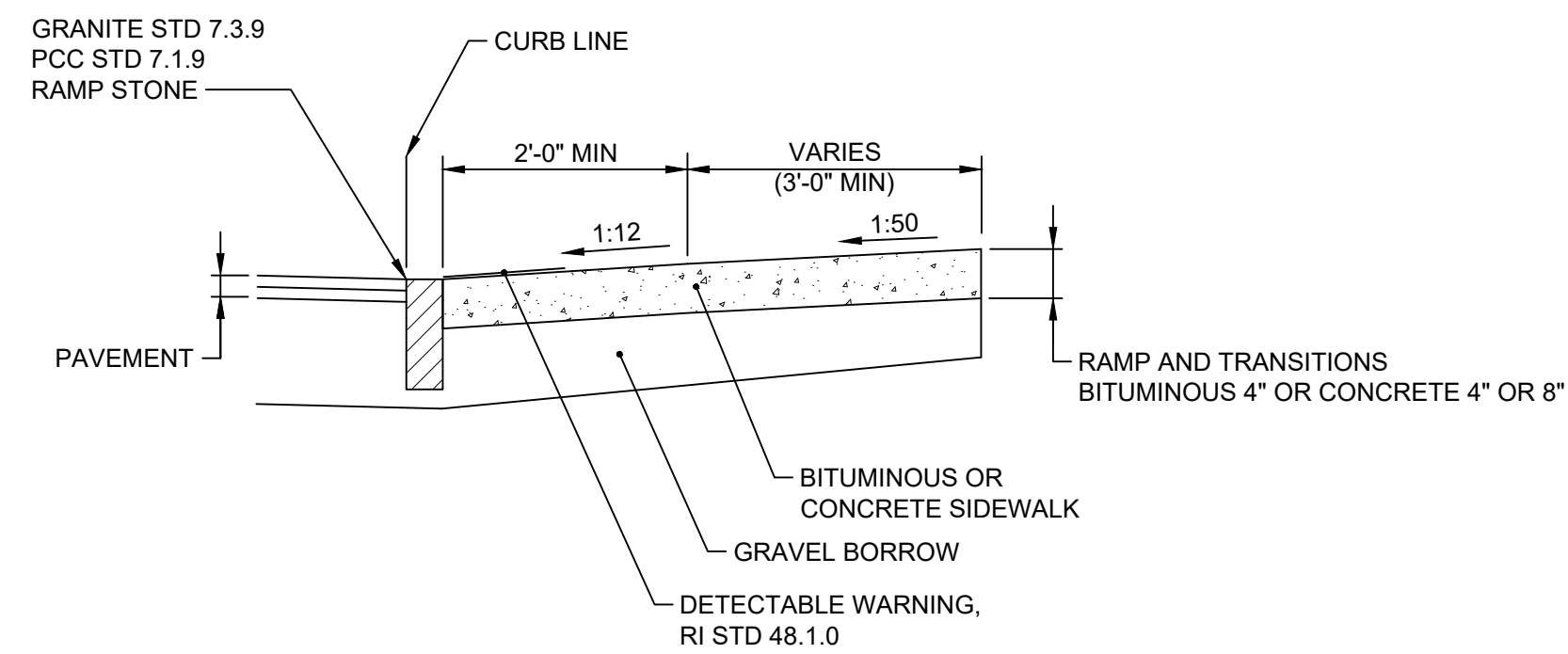
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. FOR CURB SETTING DETAIL REFERENCE STD 7.6.0.
3. ON CITY STREETS, CURBING SHALL CONFORM TO PROVIDENCE STANDARDS.

CEMENT CONCRETE SIDEWALK
NOT TO SCALE



ISOMETRIC VIEW
NOT TO SCALE

ROADWAY PROFILE GRADE	T (FT)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

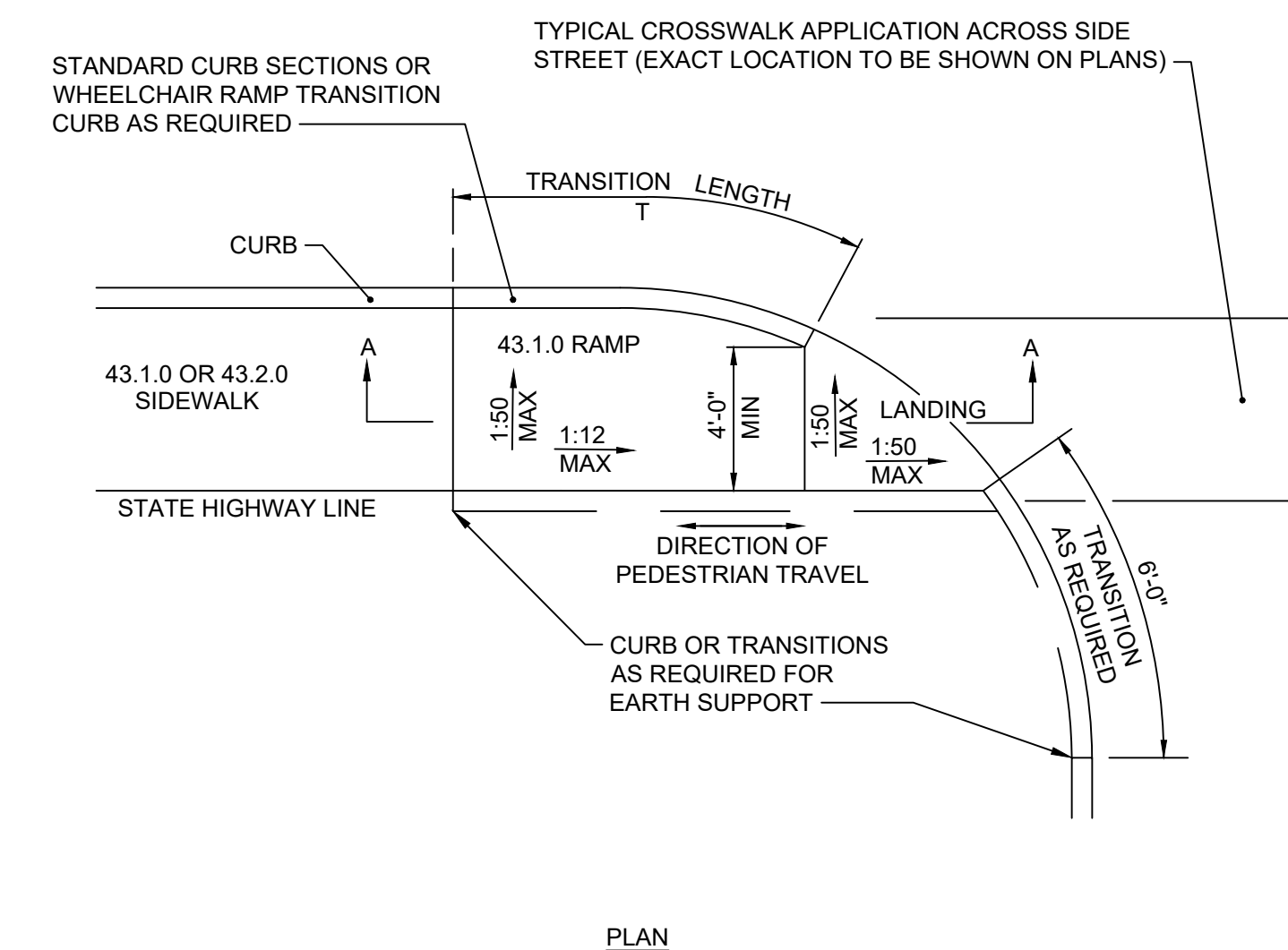
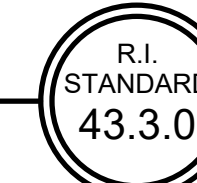


SECTION A-A
NOT TO SCALE

NOTES:

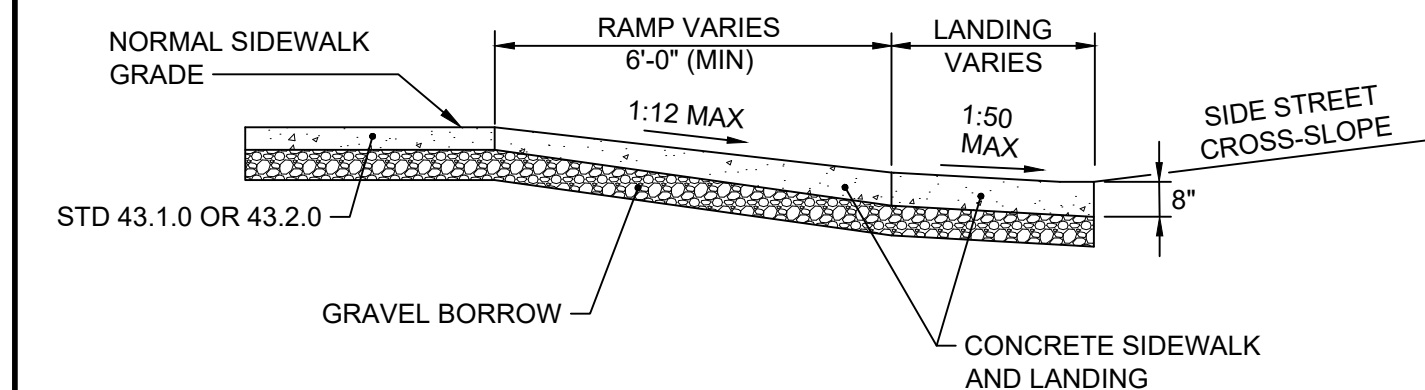
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.
8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
14. 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS

WHEELCHAIR RAMP
NOT TO SCALE



PLAN

ROADWAY GRADE	T
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

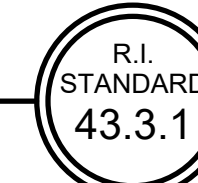


SECTION A-A

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION SHALL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.

WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
NOT TO SCALE



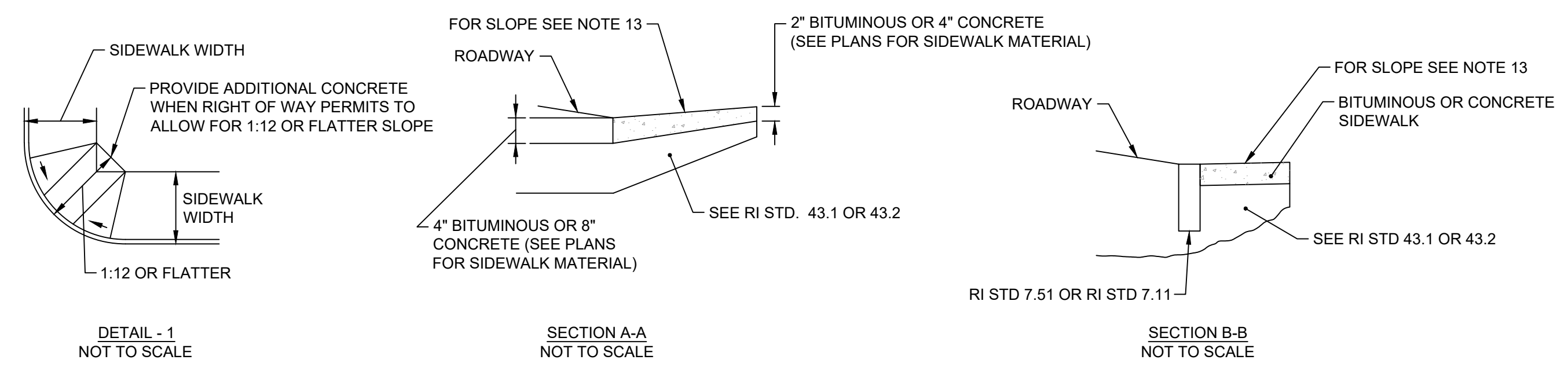
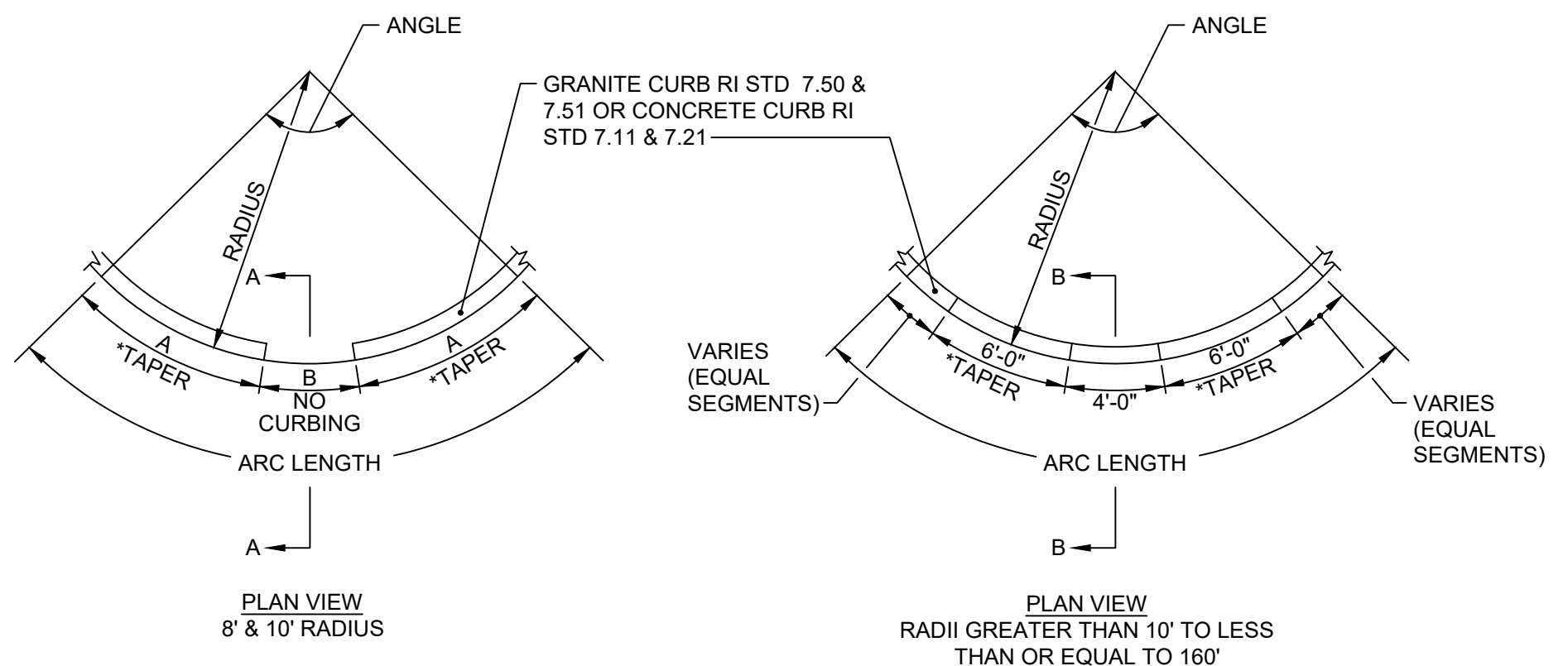
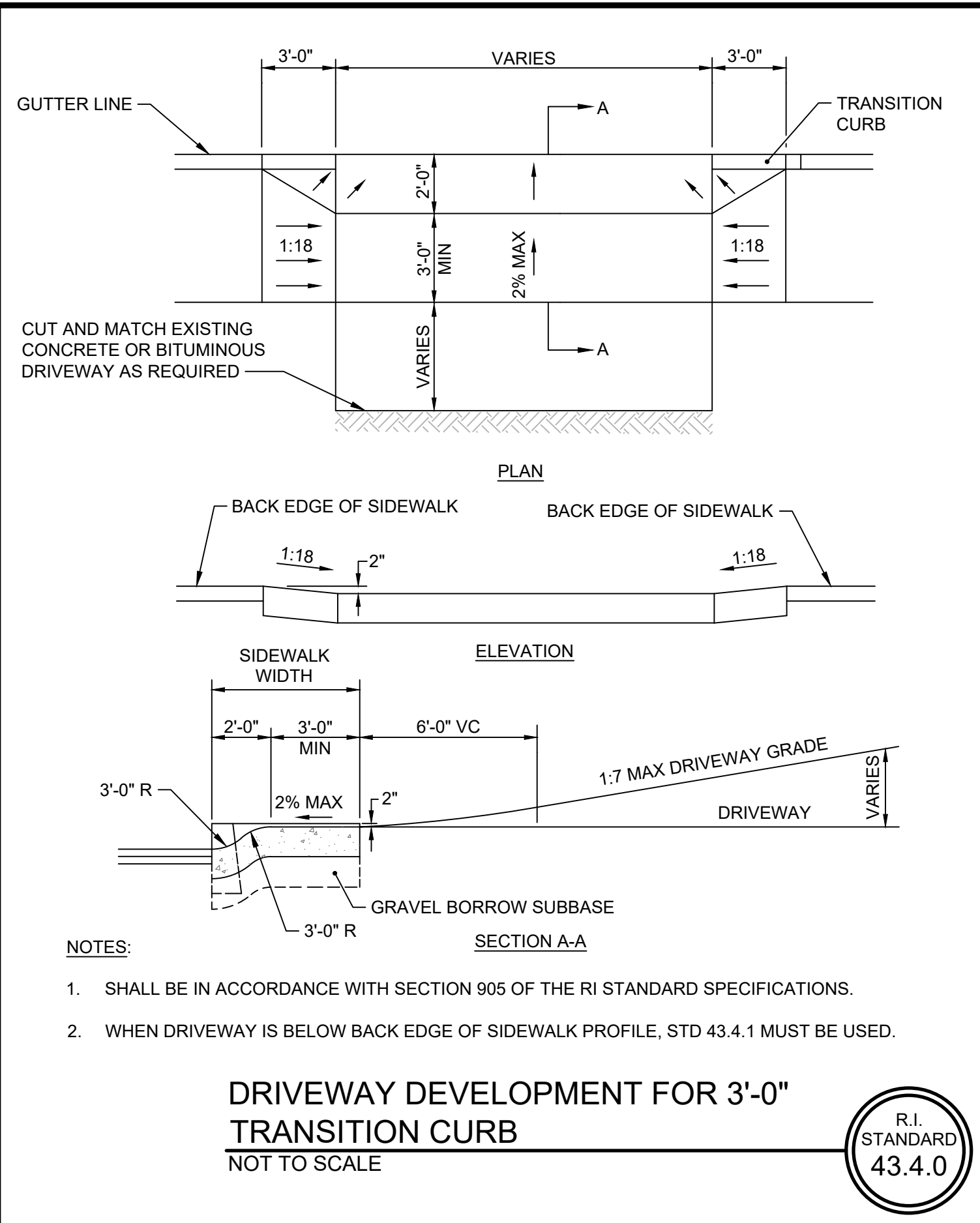
REV	DATE	BY	DESCRIPTION

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALELIO

90% DESIGN PHASE - APRIL 2021
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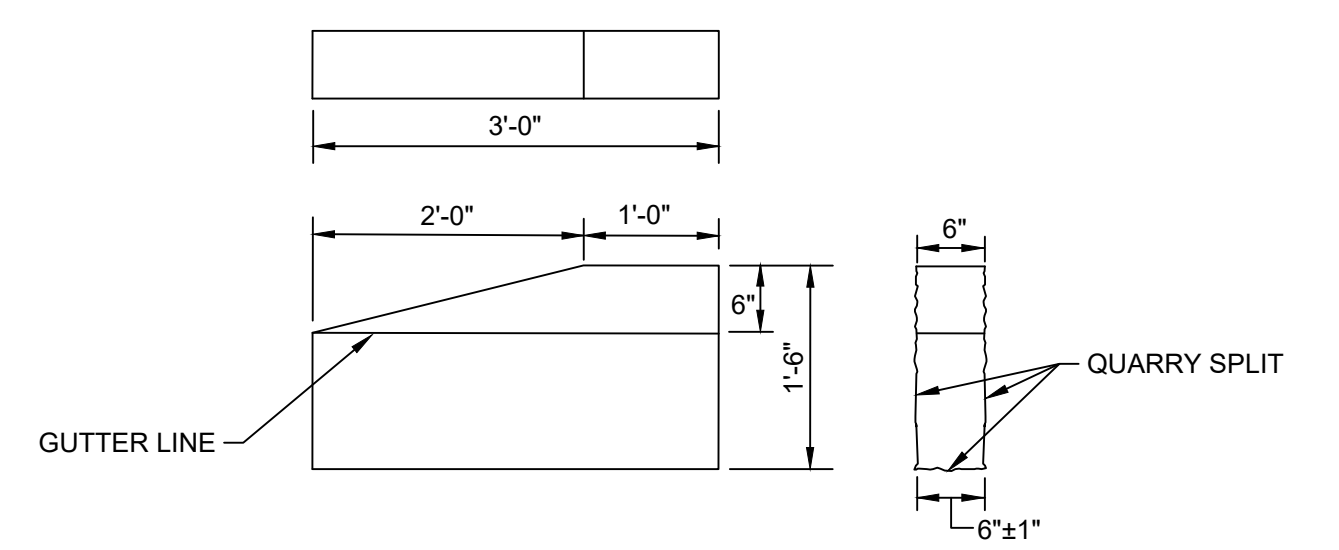


NARRAGANSETT BAY COMMISSION PHASE III COMBINED SEWER OVERFLOW PROGRAM	NBC CONTRACT NO 308.04C CIVIL	SHEET C-20
DROP SHAFT 213 CONSOLIDATION CONDUIT CIVIL DETAILS IV	195130227	

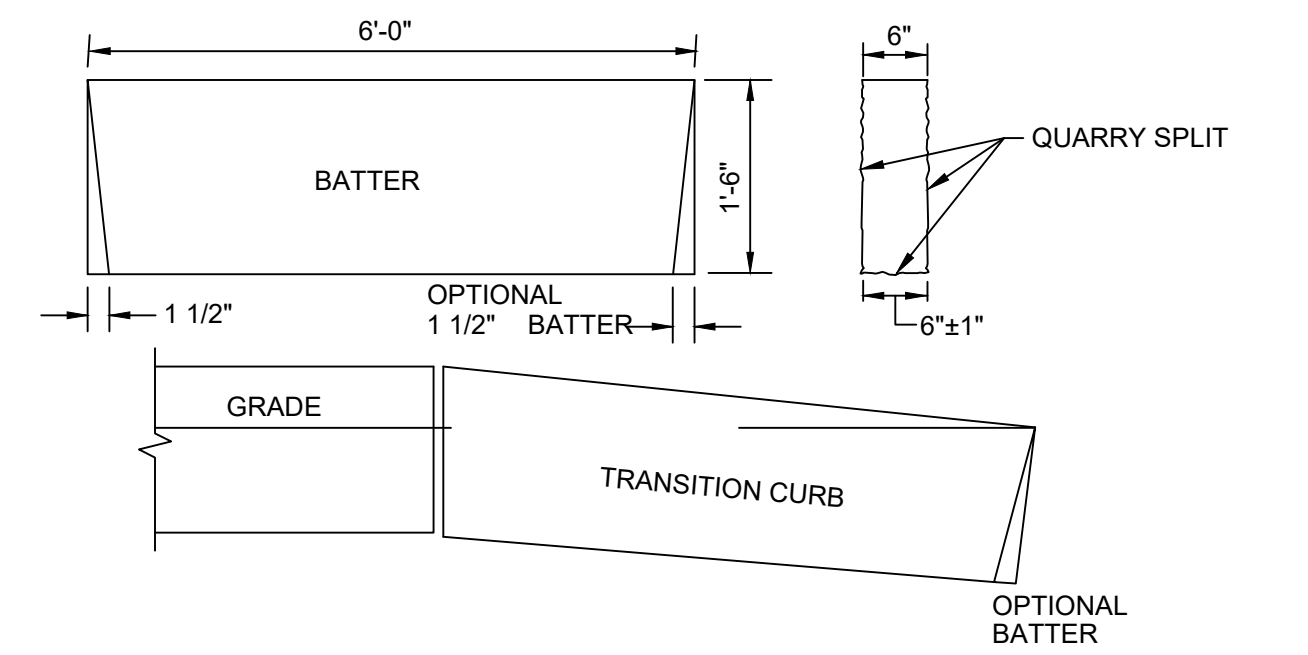
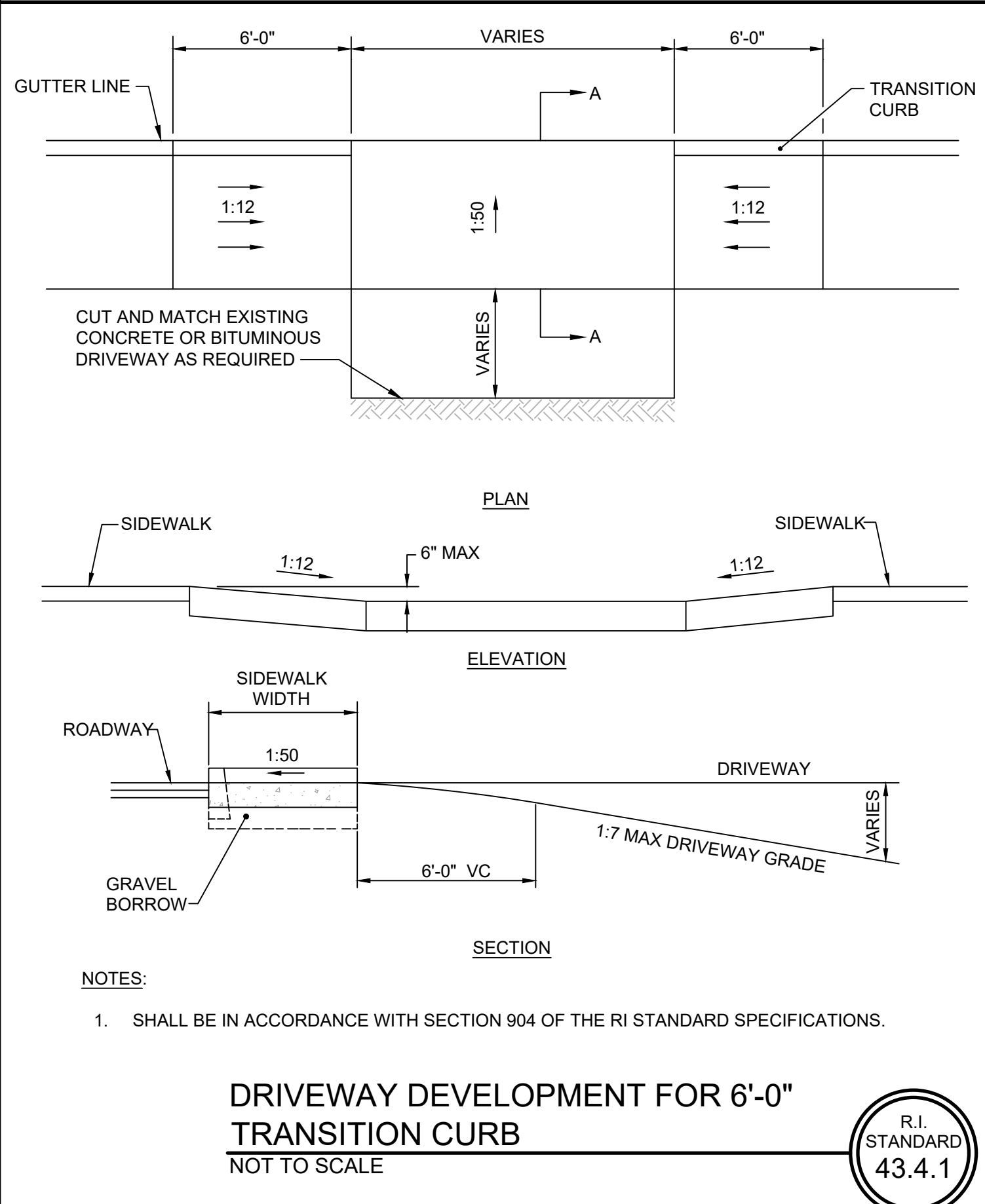


- NOTES:
- RAMP SHALL BE CENTERED RADIALLY OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
 - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK.
 - ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB PER LINEAR FOOT (IF REQUIRED).
 - MINIMUM LENGTH OF CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
 - WHEN ANY OBSTRUCTION IN THE SIDEWALK AREA FALLS WITHIN A CROSSWALK AREA, THE OBSTRUCTION WILL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
 - DRAINAGE FACILITIES ARE TO BE LOCATED UPGRADE OF WHEELCHAIR RAMP.
 - LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT PLANS OR CONTRACT DOCUMENTS.
 - ALL GRANITE TAPERED SECTIONS TO HAVE BATTERED ENDS WITH 1:12 SLOPE, EXCEPT 8' RADIUS SHALL HAVE 1:9.5 OR FLATTER.
 - ALL GRANITE CURB SHALL BE RI STD 7.50 OR 7.51.
 - ALL CONCRETE CURB SHALL BE RI STD 7.11 AND 7.21.
 - DO NOT USE RADIUS WHEELCHAIR RAMPS (RI STD 43.31) FOR RADII LESS THAN 8'.
 - FOR RADII GRATER THAN 160', USE TANGENT SECTION WHEELCHAIR RAMP.
 - SIDEWALK WIDTH (CURB TO BACK OF SIDEWALK)

3'-6" SIDEWALK	WITH CURB OR WITHOUT CURB	SEE DETAIL -1
4'-0" SIDEWALK	WITH CURB OR WITHOUT CURB	SEE DETAIL -1
4'-6" SIDEWALK	WITH CURB OR WITHOUT CURB	SEE DETAIL -1
5'-0" SIDEWALK	WITH CURB OR WITHOUT CURB	1:10
5'-6" SIDEWALK	WITH CURB OR WITHOUT CURB	1:11
6'-0" SIDEWALK	WITH CURB OR WITHOUT CURB	1:12
 - REFER TO TABLE 601.____



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE RI STANDARD SPECIFICATIONS.
 - TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
 - THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE RI STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
 - TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

REV	DATE	BY	DESCRIPTION

SCALE AS SHOWN

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED C. CRONIN
DRAWN C. MARSHALL
CHECKED J. D'ALELIO

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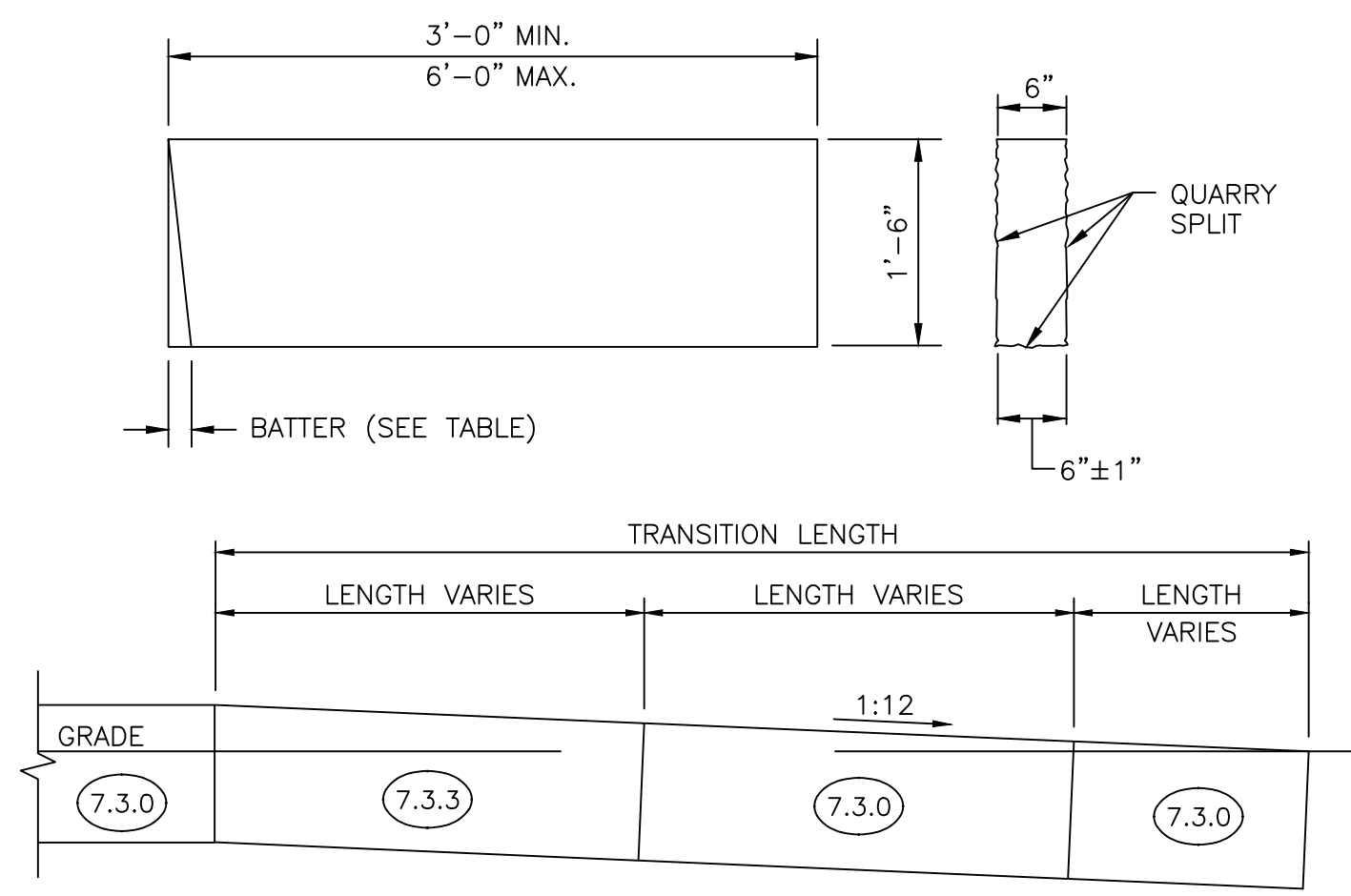


NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS V

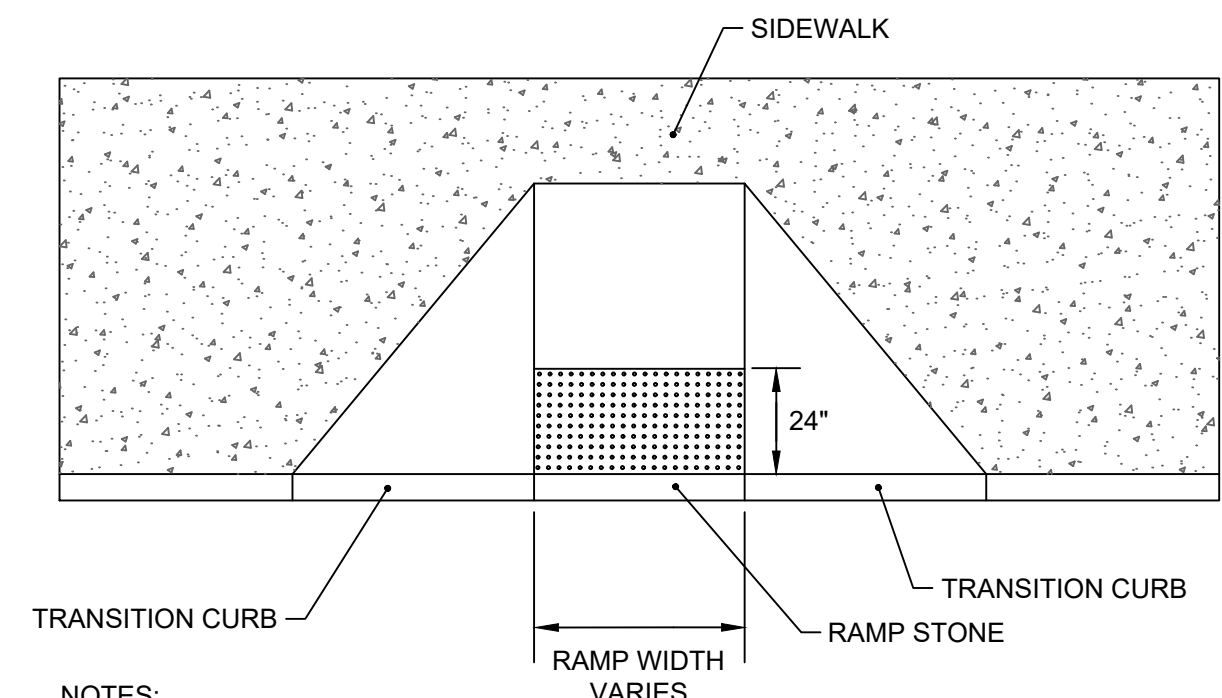
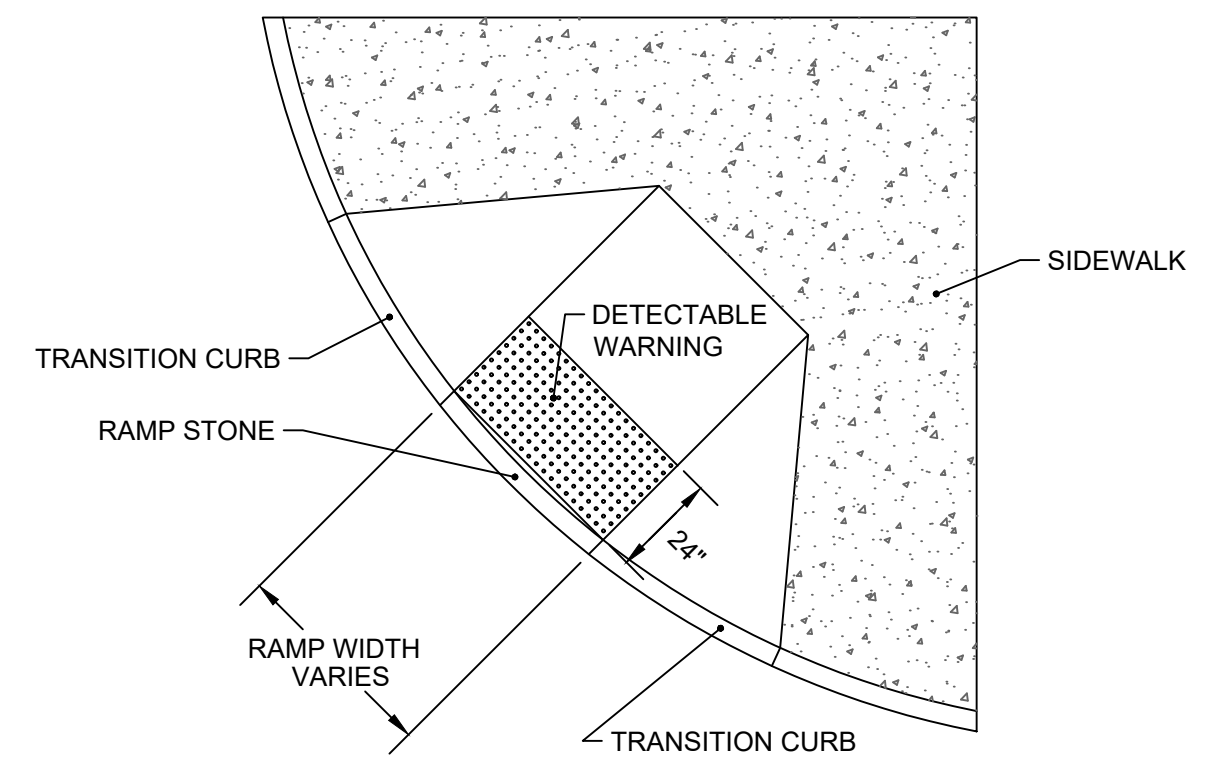
SHEET C-21
195130227



TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

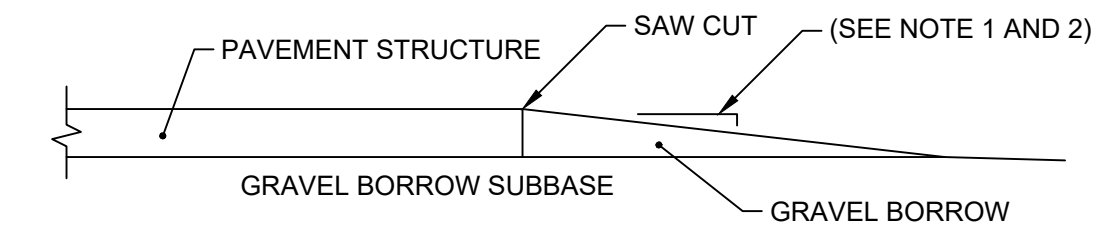
- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
 4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

GRANITE WHEELCHAIR RAMP TRANSITION CURB
NOT TO SCALE



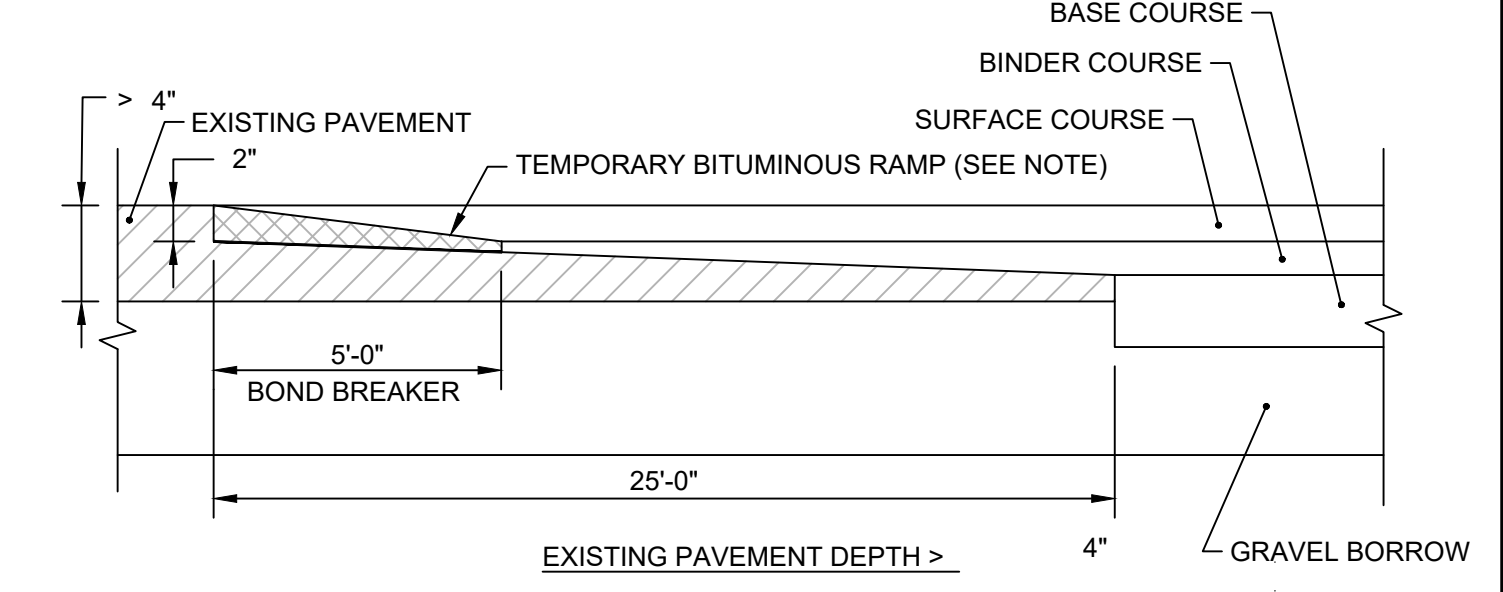
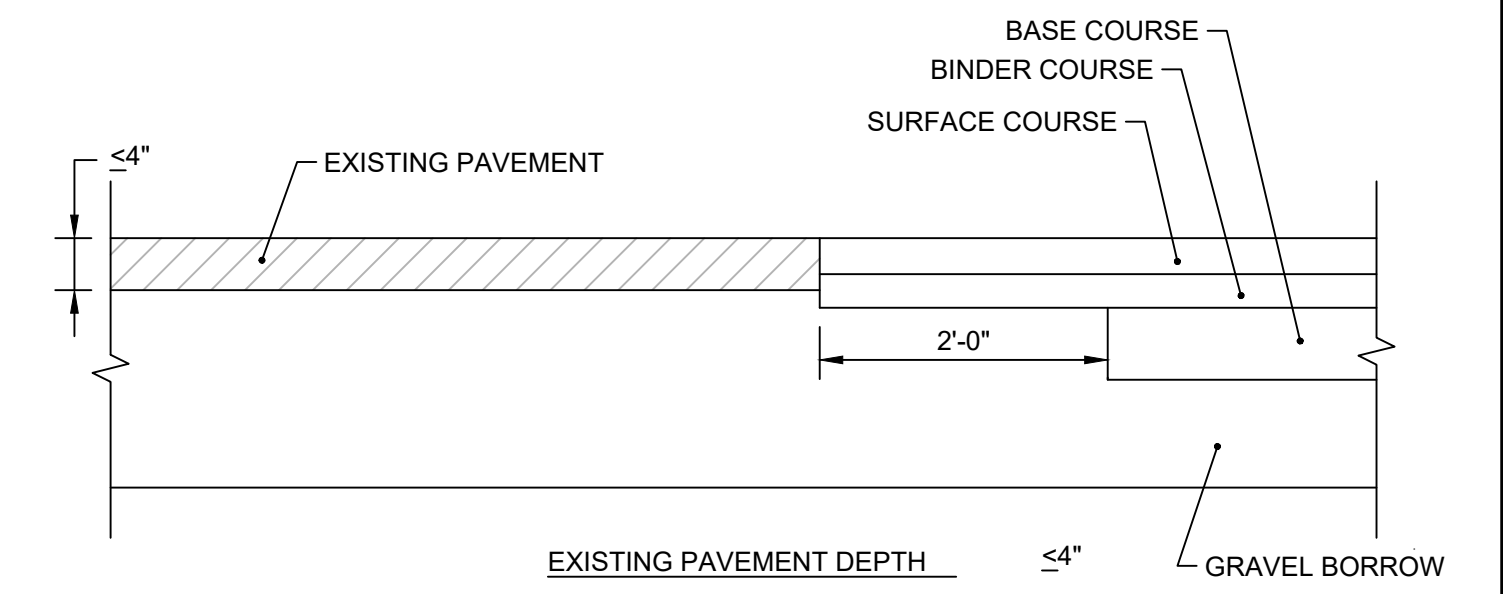
- NOTES:
1. DETECTOR WARNING SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 942 OF THE RI STANDARD SPECIFICATIONS.

DETECTABLE WARNING SYSTEM
NOT TO SCALE



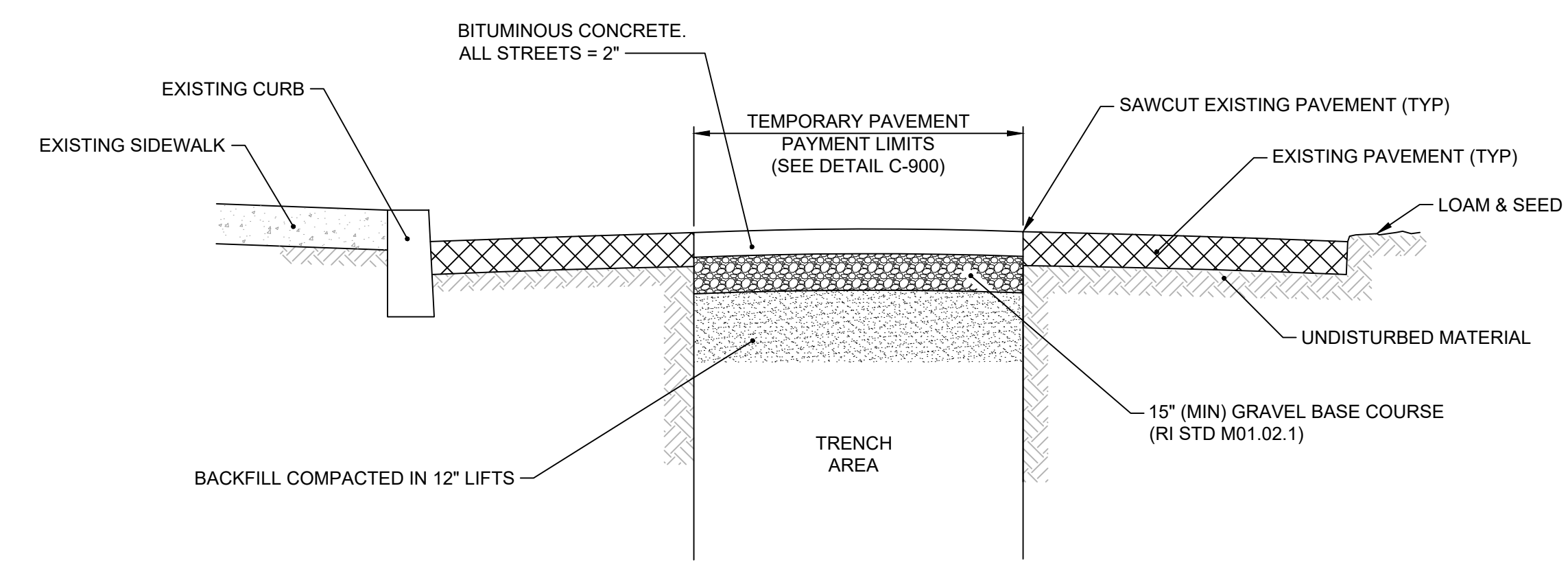
- NOTES:
1. TRANSVERSE DROP-OFF:
POSTED SPEED < 35 MPH: 5 FEET HORIZONTALLY TO 1 INCH VERTICALLY
POSTED SPEED > 35 MPH: 10 FEET HORIZONTALLY TO 1 INCH VERTICALLY
 2. LONGITUDINAL DROP-OFF (OUTSIDE EDGES OF PAVEMENT):
POSTED SPEED < 35 MPH: DROP-OFFS > 3" BUT < 5" SHALL BE TAPERED TO A 1:1 OR FLATTER SLOPE TO EXISTING GROUND ALL DROP-OFFS > 5" SHALL BE TAPERED TO A 4:1 OR FLATTER SLOPE TO EXISTING GROUND.
POSTED SPEED > 35 MPH: LONGITUDINAL DROP-OFFS WILL NOT BE PERMITTED WITHIN 2'-0" OF A TRAVEL LANE. THIS AREA MUST BE AT GRADE WITH THE TRAVEL LANE. HOWEVER, SHOULD THE CONTRACTOR'S APPROVED SEQUENCE OF OPERATIONS RESULT IN OVERNIGHT DROP-OFFS GREATER THAN THREE INCHES OCCURRING BETWEEN 2'-0" TO 6'-0" FROM A TRAVEL LANE, THEN THE DROP-OFFS SHALL BE TAPERED TO A 4:1 OR FLATTER SLOPE TO EXISTING GROUND.

PAVEMENT REMOVAL DROP-OFF DETAIL
NOT TO SCALE



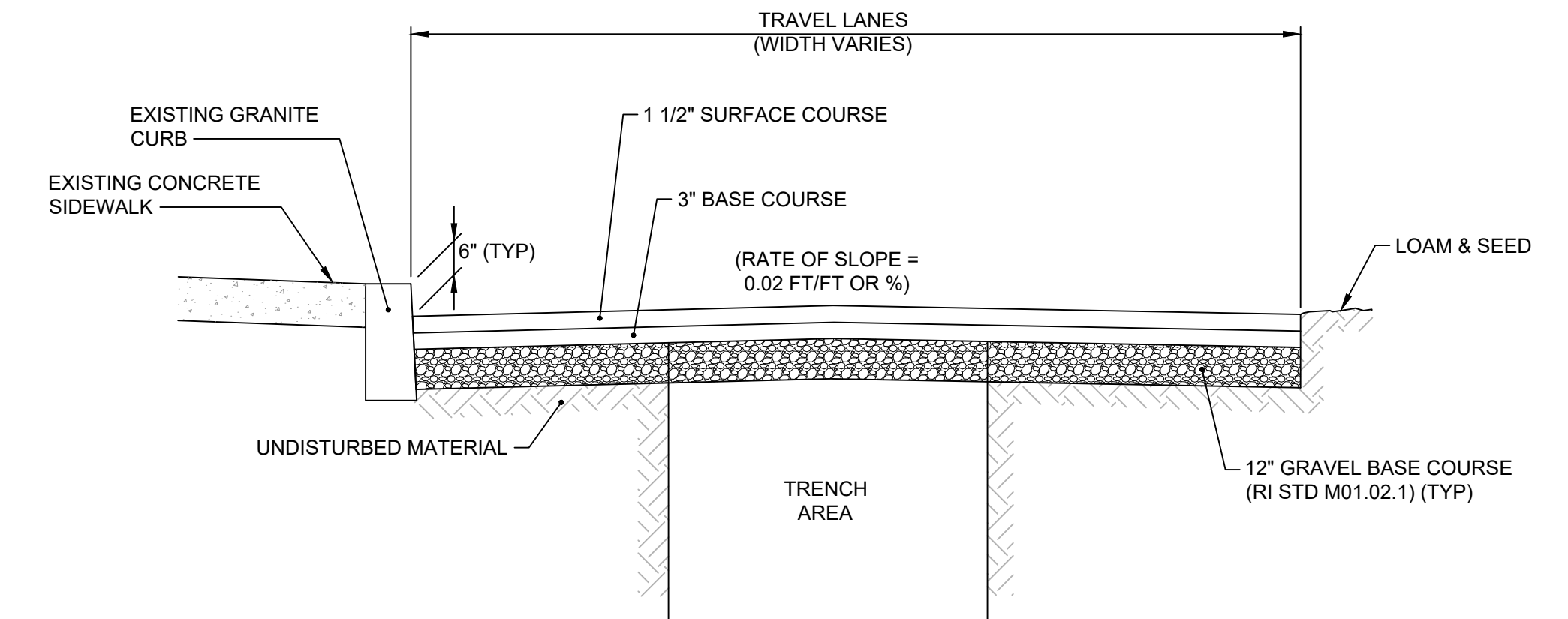
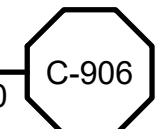
- NOTES:
1. A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

TRANSVERSE PAVEMENT CUT AND MATCH
NOT TO SCALE



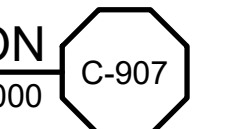
- NOTES:
1. CONTRACTOR TO VARY PAVEMENT THICKNESS TO MAINTAIN A MINIMUM CROSS SECTIONAL SLOPE EQUALING 0.02 FT/FT OR %.

TEMPORARY PAVEMENT, ALL ROADS
NOT TO SCALE



- NOTES:
1. REMOVE AND DISPOSE EXISTING PAVEMENT TO SUBGRADE, INSTALL GRAVEL BASE COURSE, TRIM, FINE GRADE AND COMPACT GRAVEL BASE COURSE PRIOR TO PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT.
 2. PAVEMENT TO BE PLACED OVER MINIMUM 12 INCHES OF GRAVEL BORROW BASE COURSE.
 3. MINIMUM PAVEMENT THICKNESS TO BE 1 1/2 INCHES. MAXIMUM PAVEMENT THICKNESS PER COURSE NOT TO EXCEED 3 INCHES. CONTRACTOR TO VARY PAVEMENT THICKNESS TO MAINTAIN A MINIMUM CROSS SECTIONAL SLOPE EQUALING 0.02 FT/FT.
 4. ALL CURBING AND SIDEWALK TO REMAIN UNLESS OTHERWISE INDICATED ON THE PLANS.

PERMANENT PAVEMENT NO. 3 FULL WIDTH RESTORATION
NOT TO SCALE

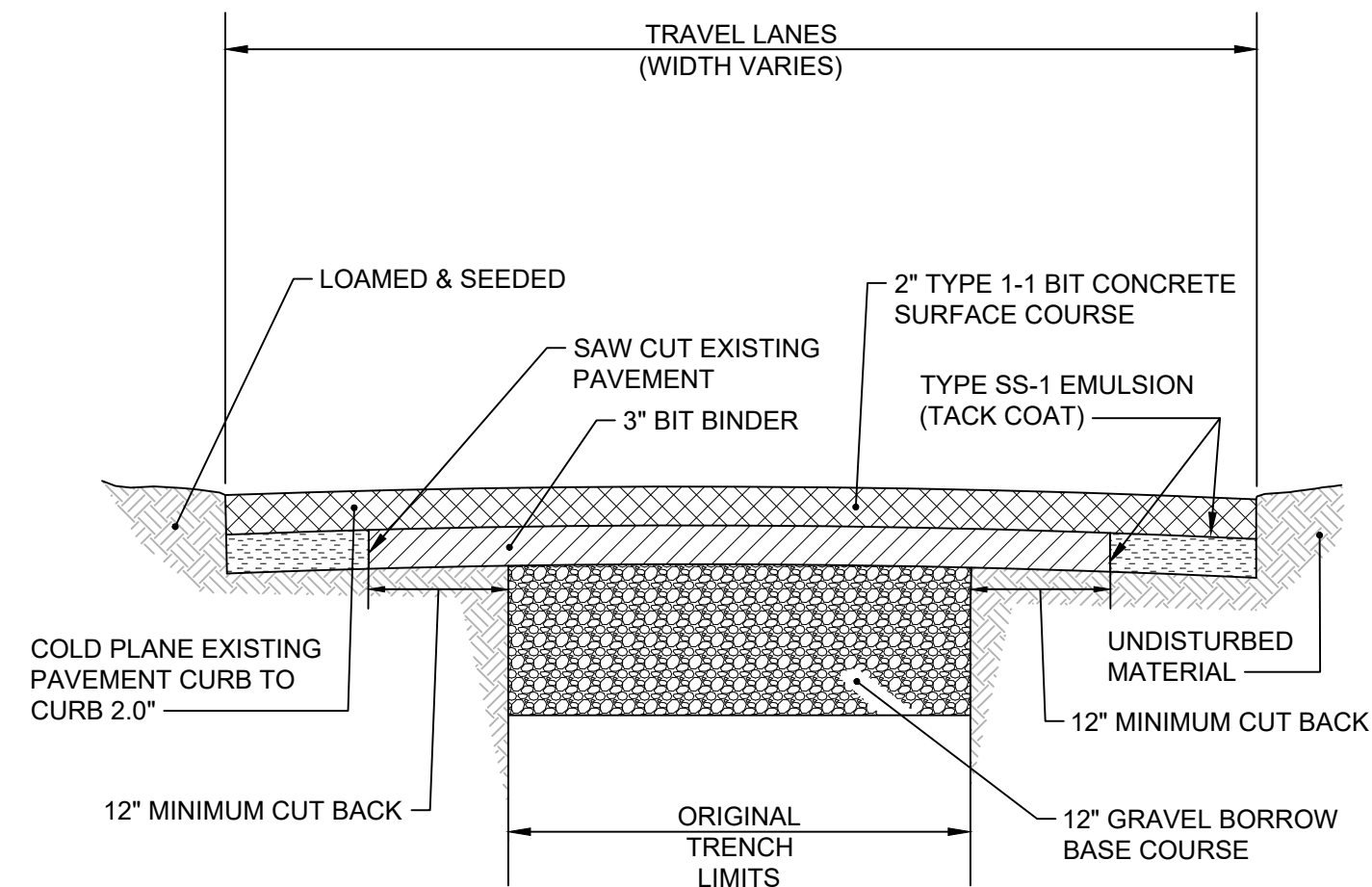


REV	DATE	BY	DESCRIPTION

SCALE AS SHOWN	WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	DESIGNED C. CRONIN DRAWN C. MARSHALL CHECKED J. D'ALESSIO
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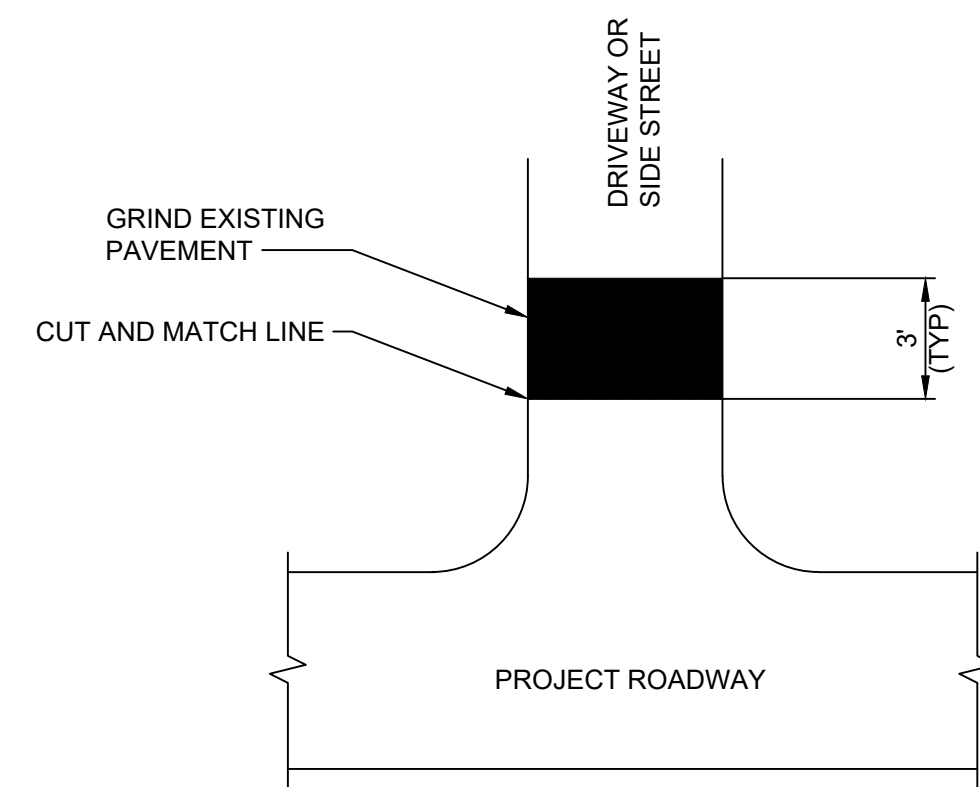
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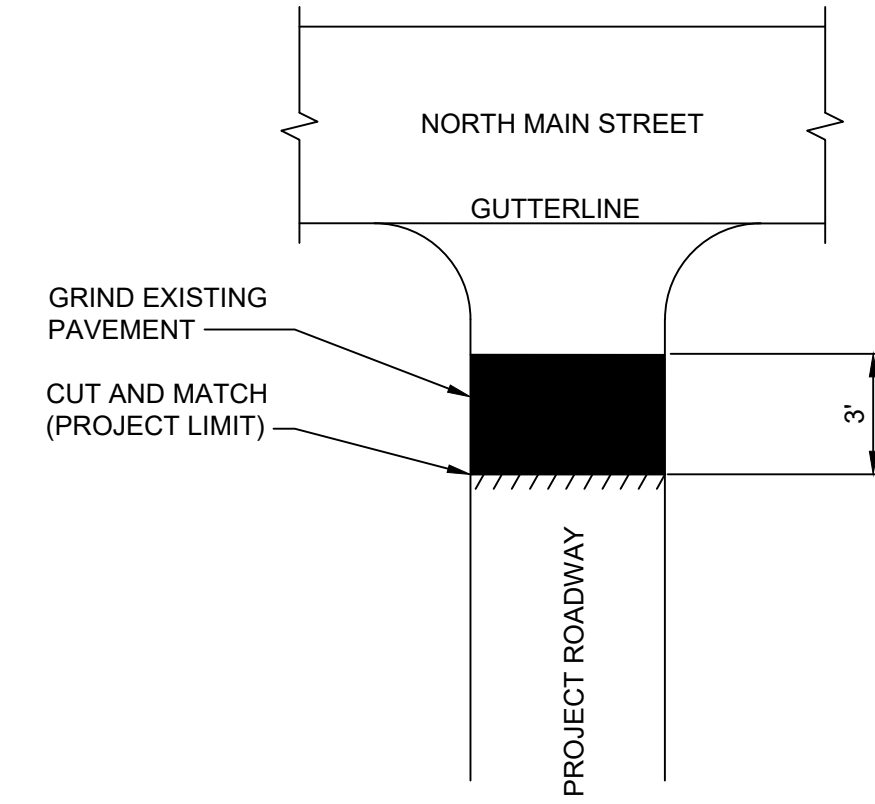


- NOTES:**
1. MINIMUM PAVEMENT THICKNESS TO BE 2". CONTRACTOR TO VARY PAVEMENT THICKNESS TO MAINTAIN A MINIMUM CROSS SECTIONAL SLOPE EQUALING 0.02 FT/FT.
 2. CUT BACK DISTANCES SHALL BE AS DIRECTED BY THE ENGINEER. HOWEVER, UNDER NO CIRCUMSTANCES SHALL THEY BE LESS THAN THE MINIMUM INDICATED.
 3. REFER TO SPECIFICATION 02500 FOR COLD PLANING REQUIREMENTS.

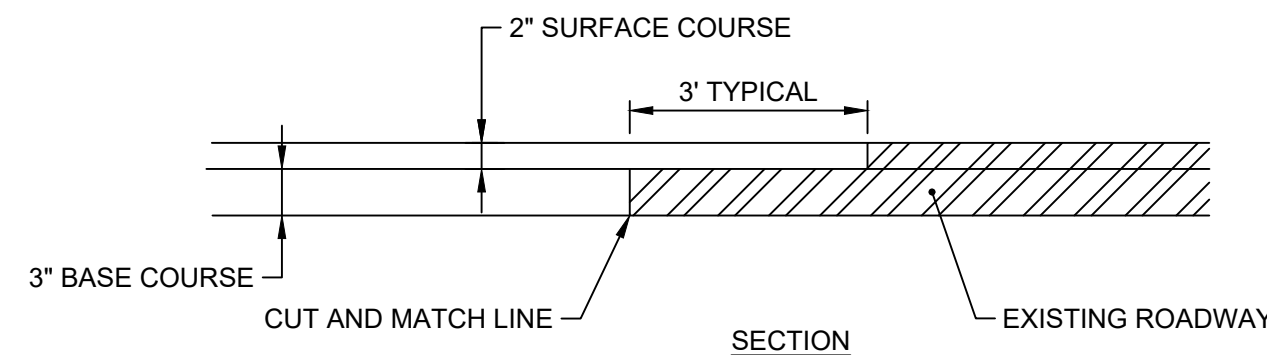
CURB TO CURB PAVEMENT RESTORATION
NOT TO SCALE REV 000000 C-908



PLAN



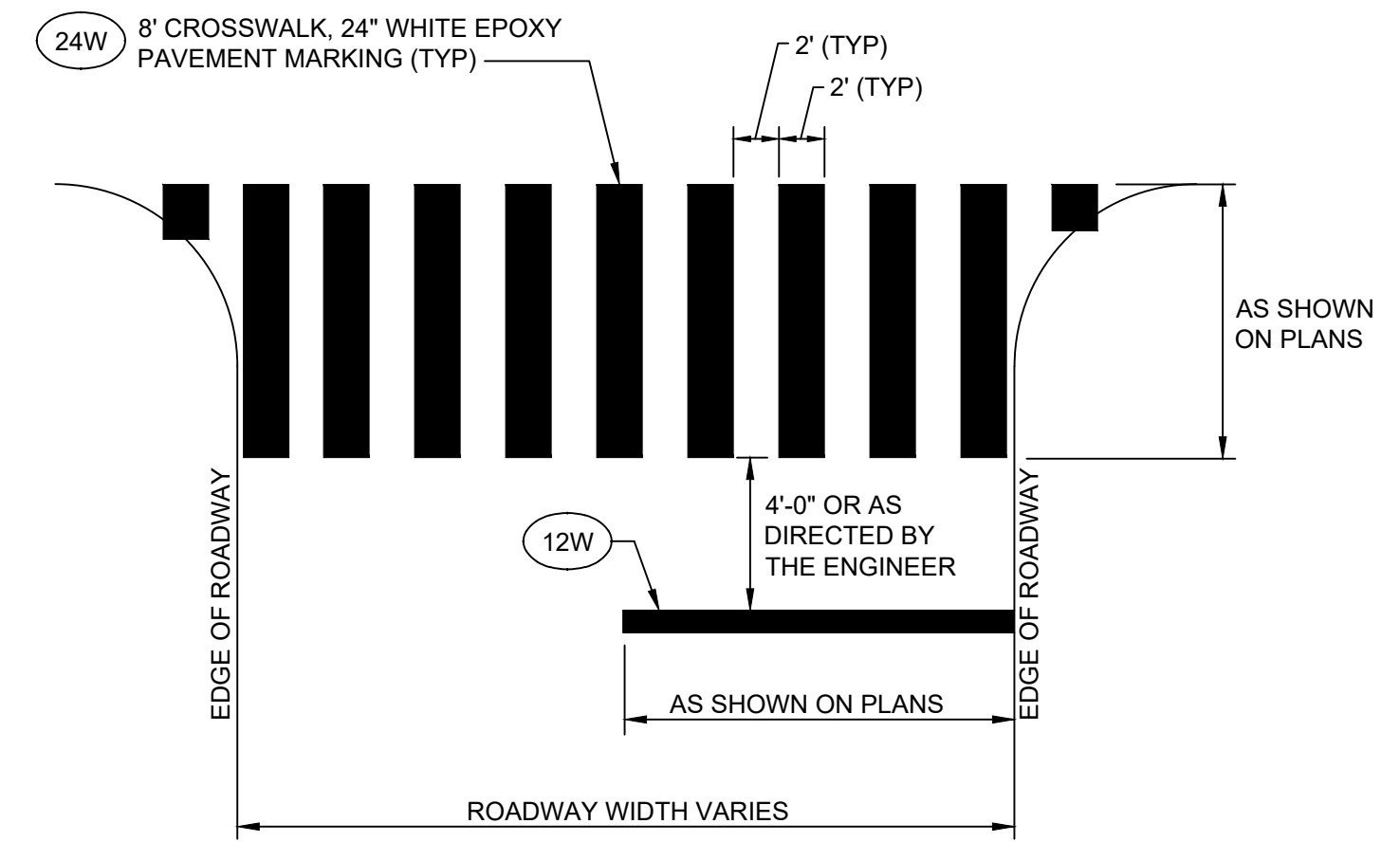
PLAN



SECTION

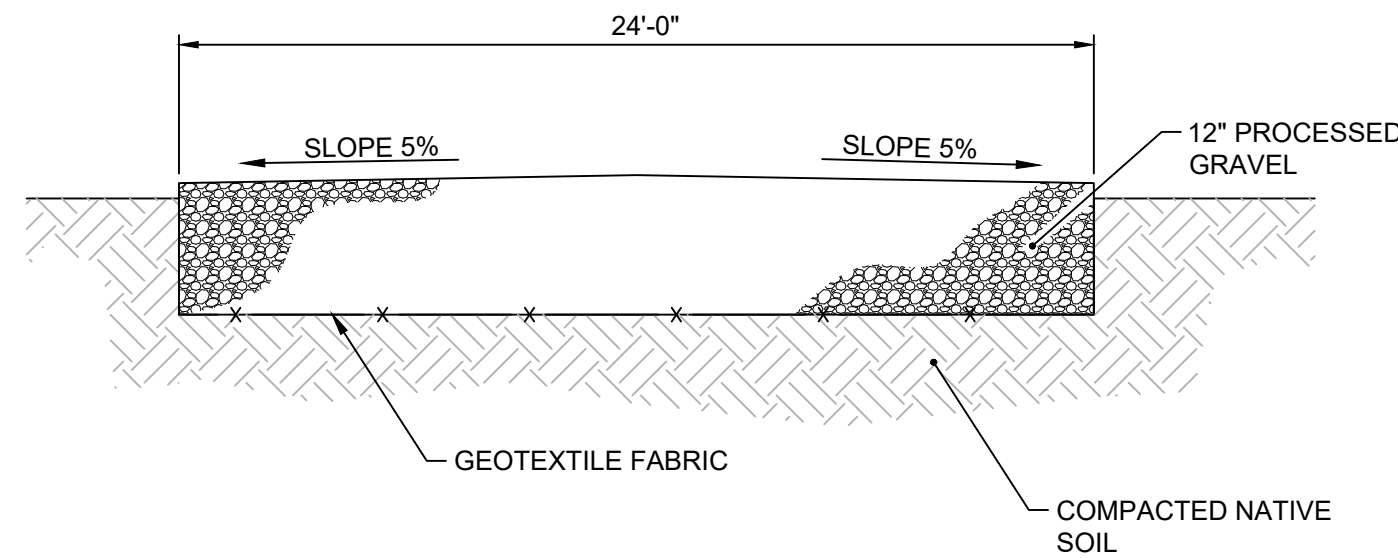
- NOTES:**
1. ACTUAL LOCATIONS OF CUT AND MATCH LINES TO BE DETERMINED IN THE FIELD.

PROJECT LIMITS CUT AND MATCH DETAIL
NOT TO SCALE REV 000000 C-909

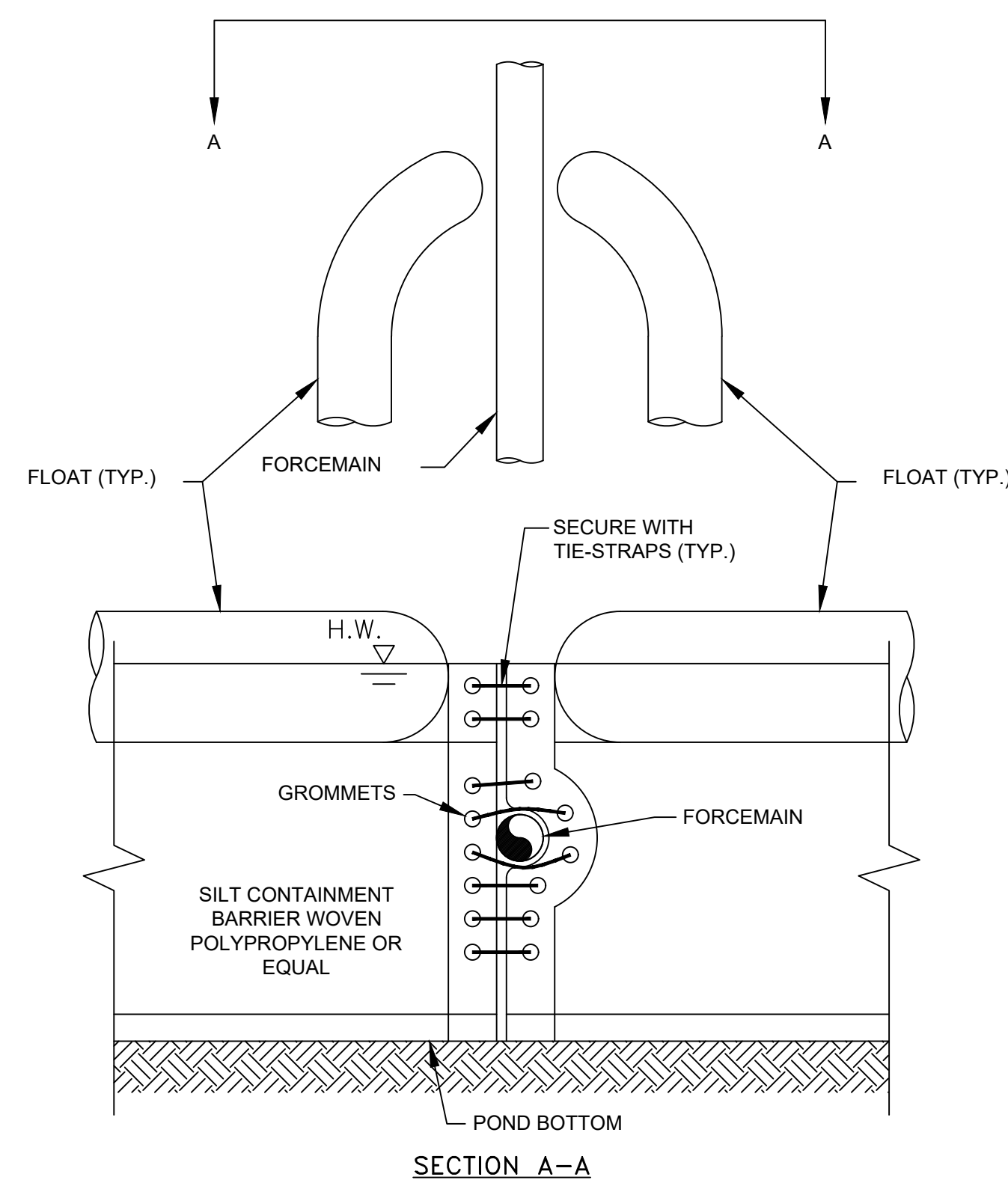


- CONTRACTOR TO MATCH EXISTING STRIPING AT THE FOLLOWING LOCATIONS:
- LOCATIONS:**
- INTERSECTION OF MAIN STREET (65 FT WIDE) AND ROOSEVELT AVENUE EXT (34 FT WIDE)
 - 4 CROSSWALKS AND 4 STOPLINES
 - INTERSECTION OF JENKS WAY (44 FT WIDE) AND ROOSEVELT AVENUE EXT (31 FT WIDE)
 - 2 CROSSWALKS AND 1 STOPLINE
 - TAFT STREET (62 FT WIDE) AT APPROXIMATELY 650 FT NORTH OF SPENCER STREET
 - 1 CROSSWALK
 - INTERSECTION OF TOWER STREET (25 FT WIDE) AND TAFT STREET (48 FT WIDE)
 - 2 CROSSWALKS AND 2 STOPLINE
 - INTERSECTION OF TIDEWATER STREET (32 FT WIDE) AND TAFT STREET (30 FT WIDE)
 - 2 CROSSWALKS AND 2 STOPLINES

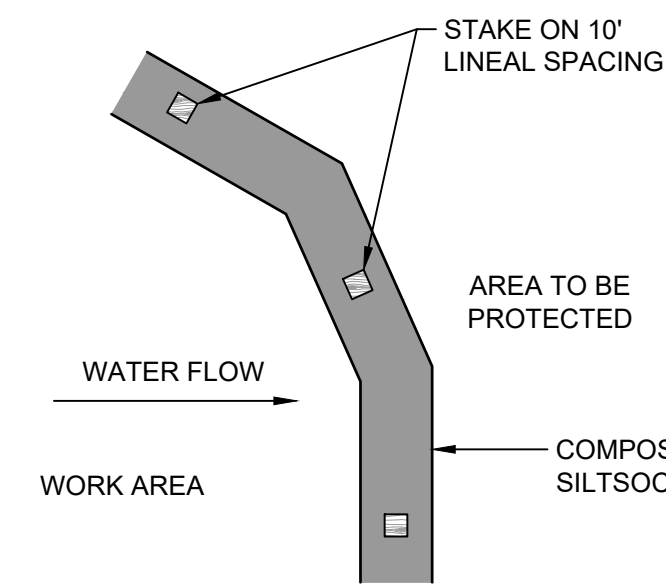
CROSSWALK AND STOPLINE DETAIL - TYPE 1
NOT TO SCALE REV 000000 C-910



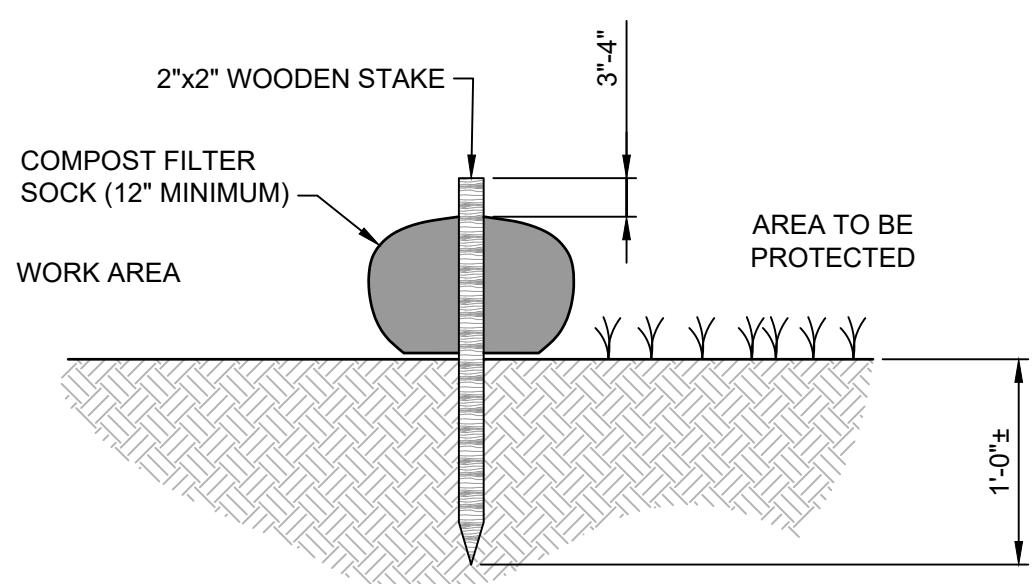
GRAVEL ACCESS ROAD
NOT TO SCALE REV 000000 C-911



TURBIDITY CURTAIN TRANSITION
NOT TO SCALE REV 000000 C-912



- NOTES:**
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
 2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
 3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.



COMPOST FILTER SOCK
NOT TO SCALE REV 000000 C-401

REV	DATE	BY	DESCRIPTION

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALELIO

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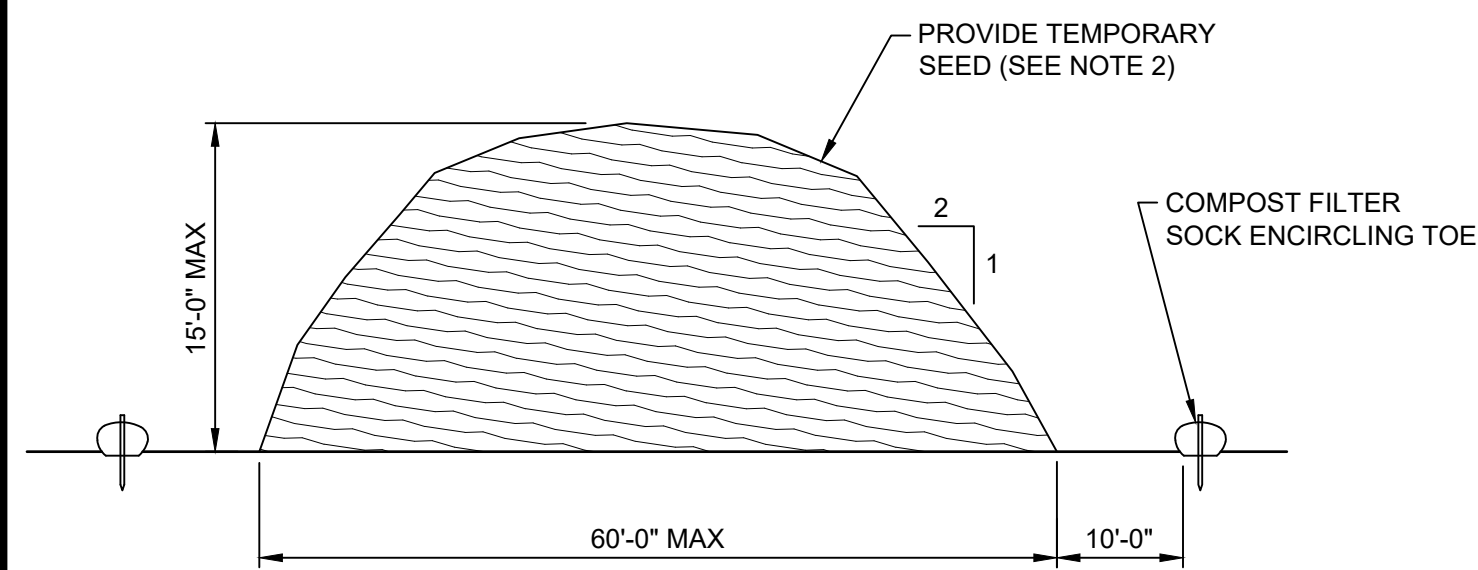
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec PARE

NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS VII

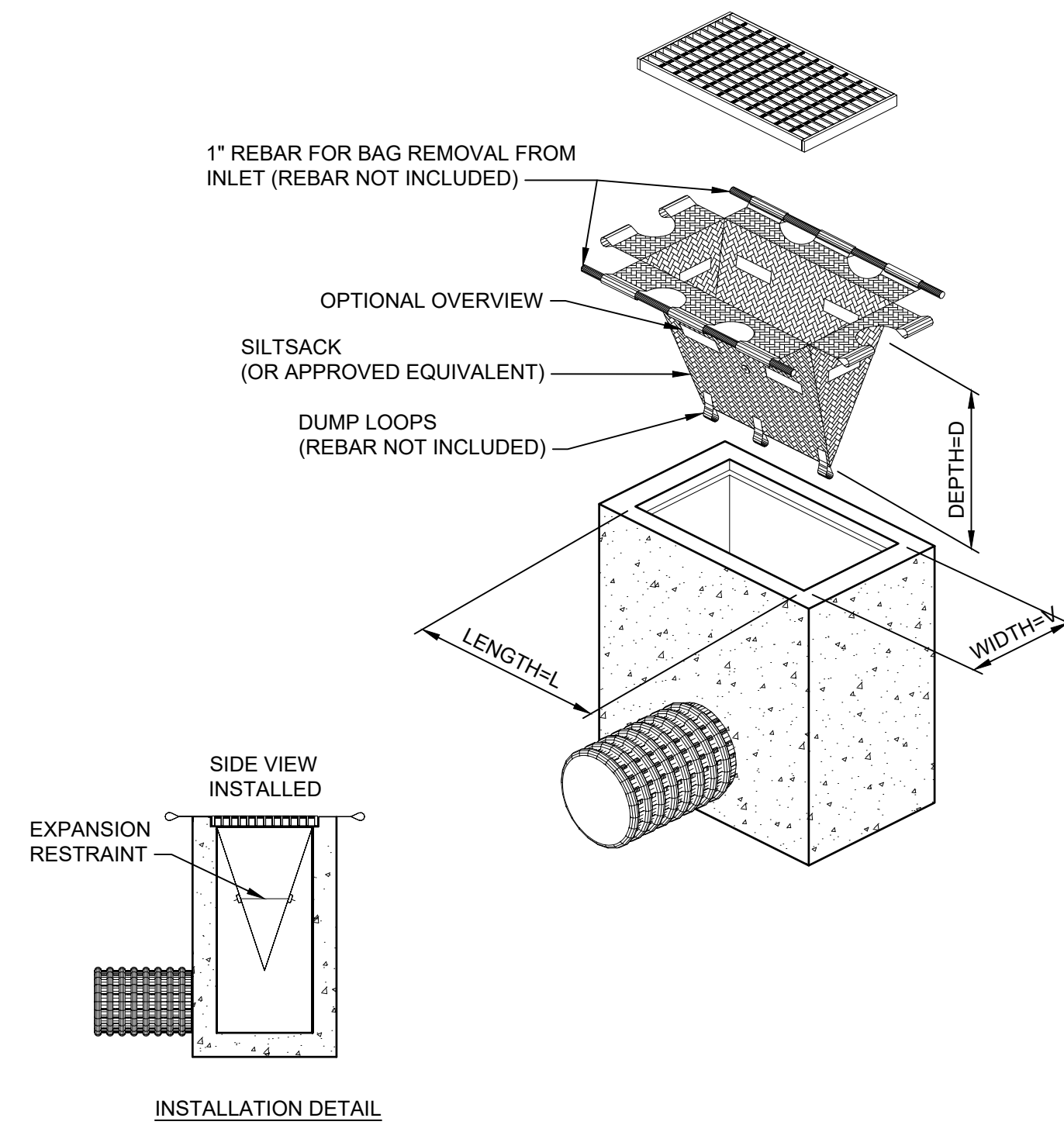
SHEET
C-23
195130227



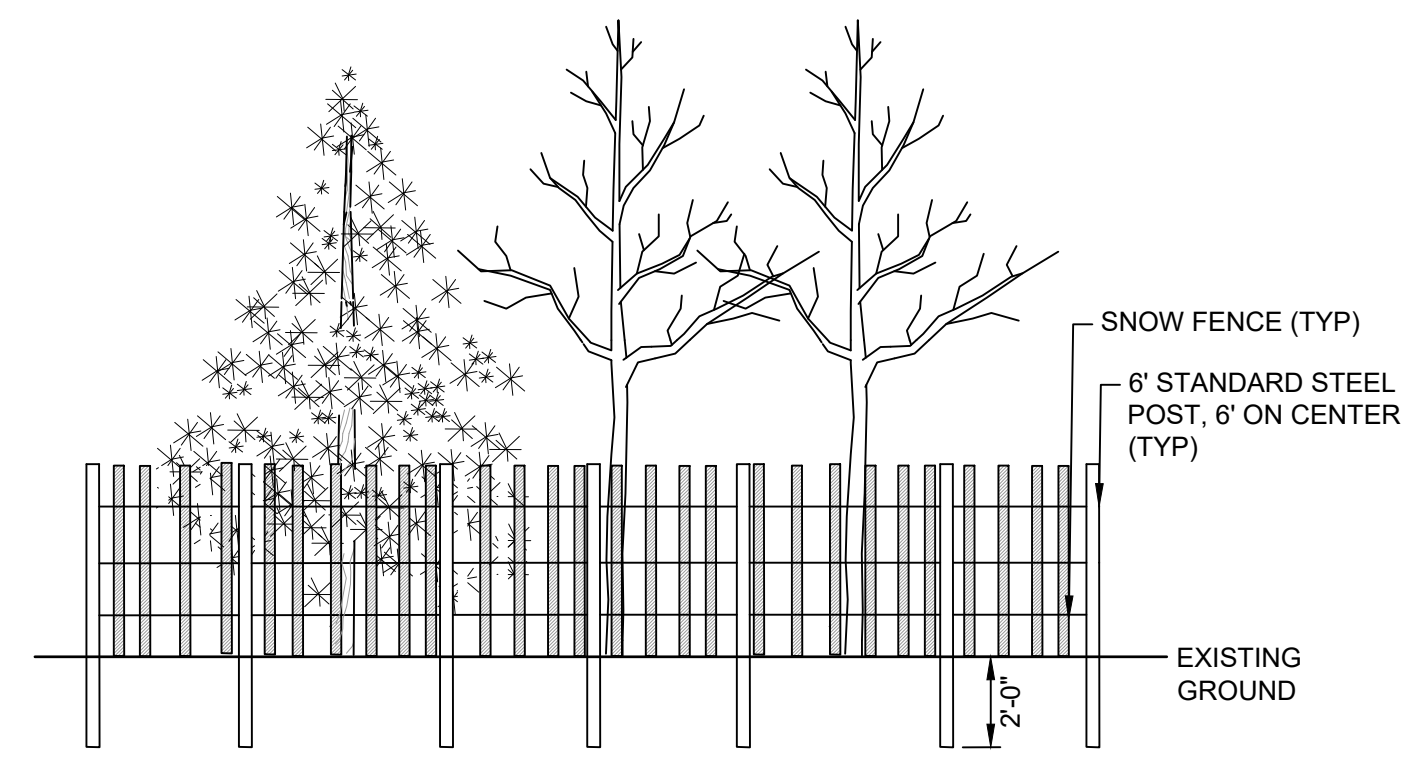
NOTES:

1. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
2. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD M.18.10.5 SEED MIX.

ERODIBLE MATERIAL STOCKPILE
NOT TO SCALE REV 000000 C-402



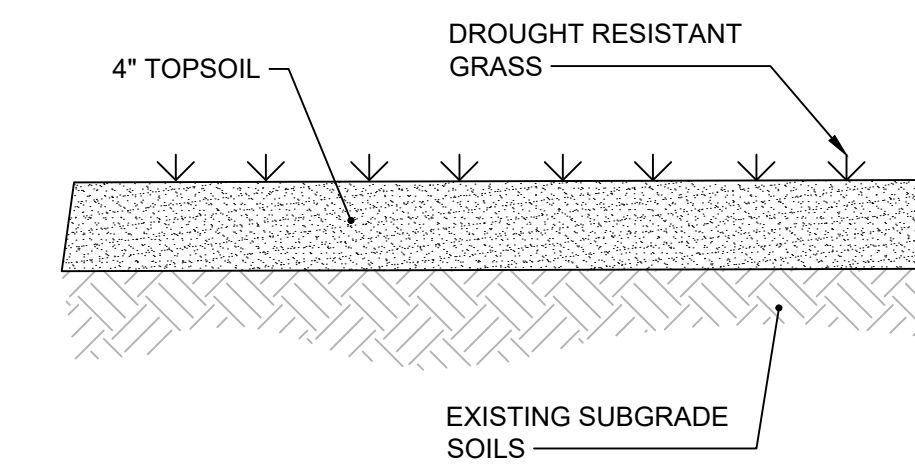
TEMPORARY INLET PROTECTION
NOT TO SCALE REV 000000 C-403



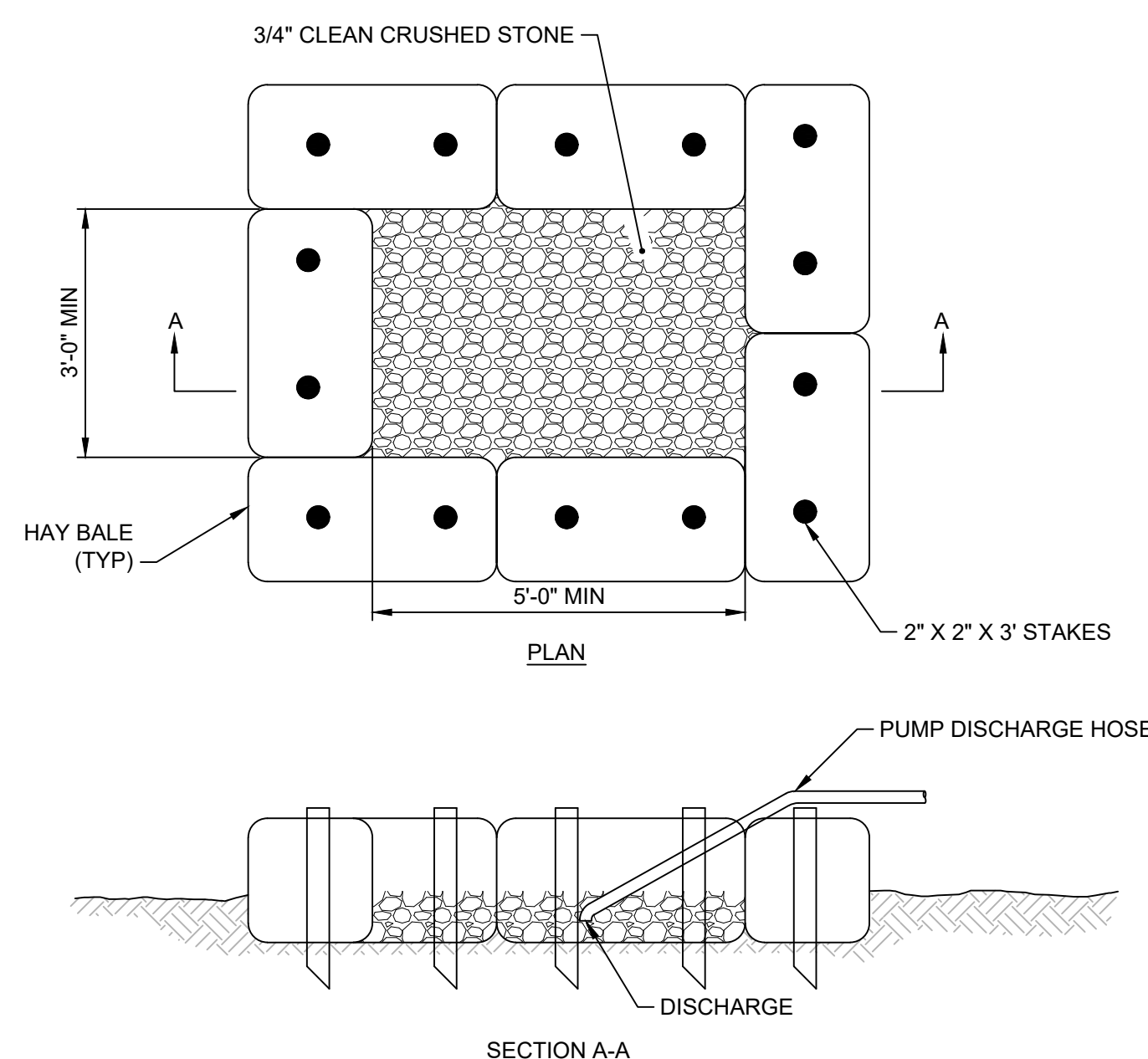
NOTES:

1. TREE GROUP PROTECTION SHALL BE INSTALLED AT THE DRIP LINE OF THE TREES TO BE PROTECTED.

TREE GROUP PROTECTION DETAIL
NOT TO SCALE REV 000000 C-404



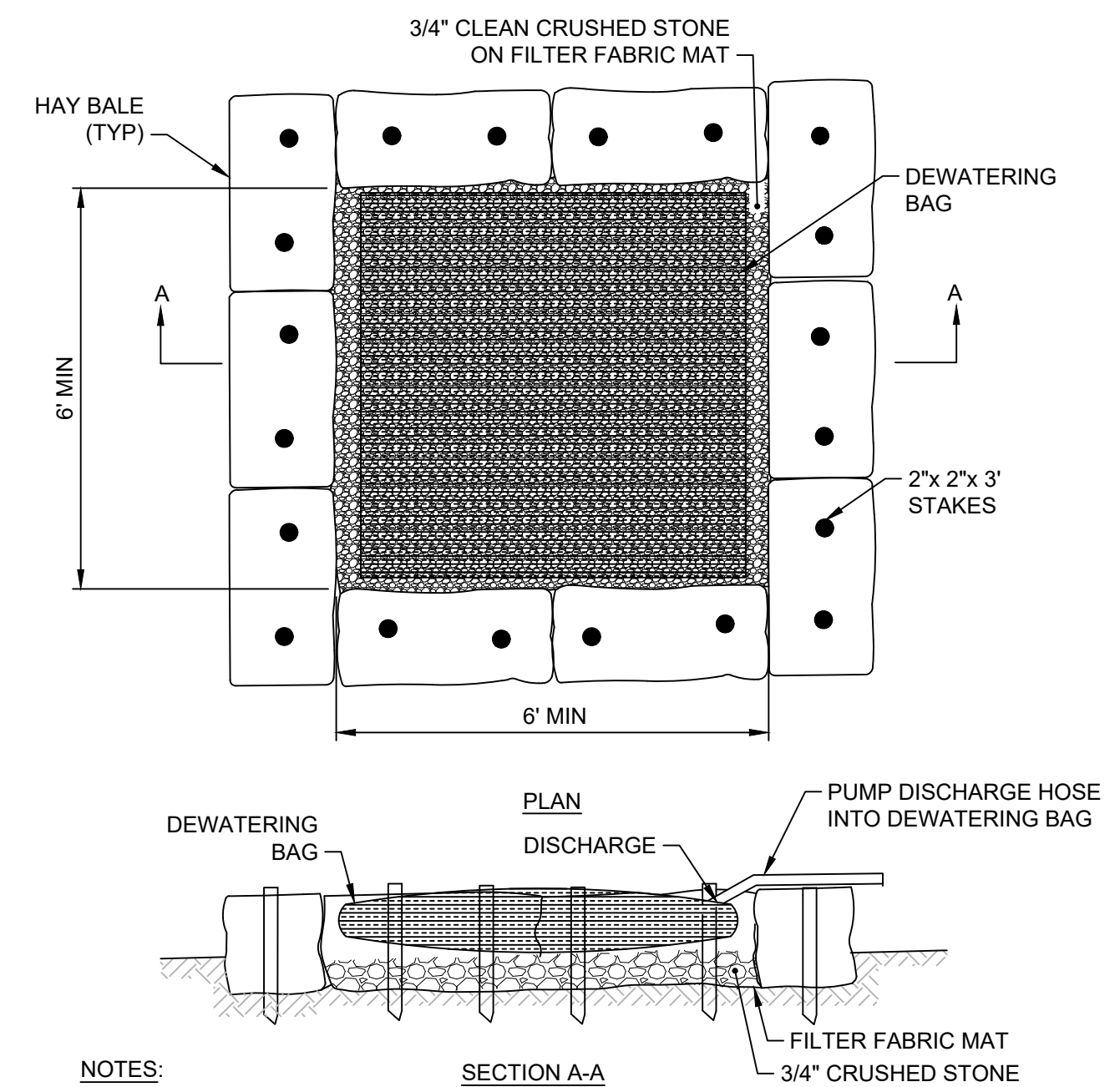
GROUND COVER DETAIL
NOT TO SCALE REV 000000 C-912



NOTES:

1. ALL DEWATERING DISCHARGES SHALL BE THROUGH SEDIMENT CONTROL TRAPS. CONTRACTOR SHALL MAINTAIN AND CLEAN TRAP AS REQUIRED.

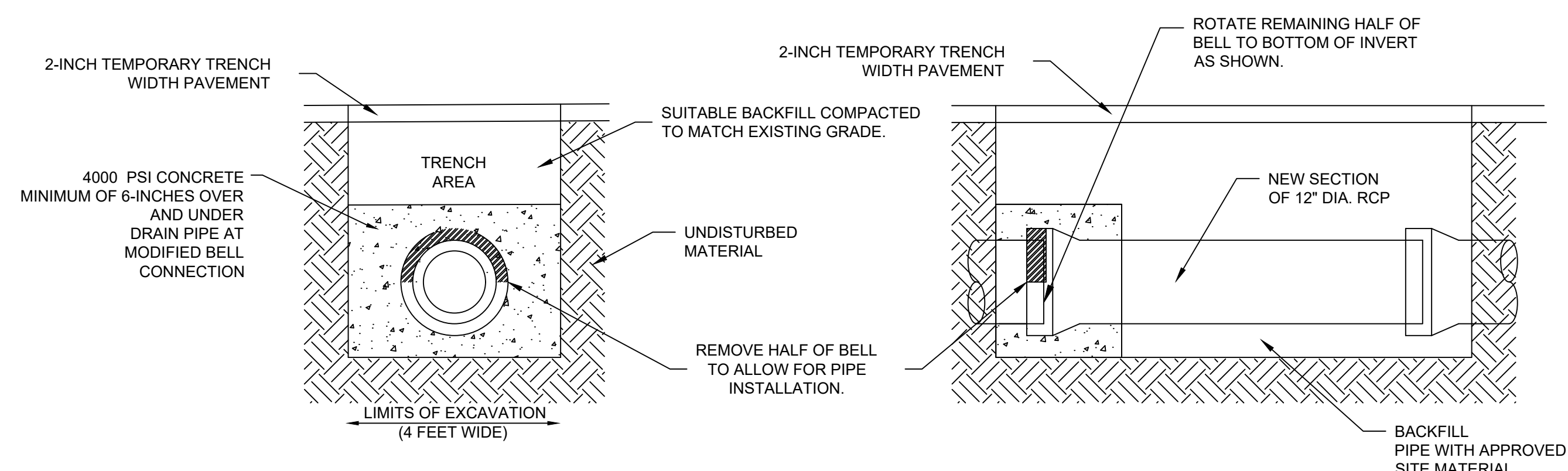
SEDIMENT CONTROL TRAP
NOT TO SCALE REV 000000 C-913



NOTES:

1. ALL DEWATERING DISCHARGES SHALL BE THROUGH DEWATERING BAG, CONTRACTOR SHALL MAINTAIN AND CLEAN AS REQUIRED.
2. CONTRACTOR SHALL SUBMIT DEWATERING PLANS TO THE ENGINEER/OWNER FOR APPROVAL.
3. SIZING OF DEWATERING BAG SHALL BE BASED ON BUT NOT LIMITED TO THE FOLLOWING:
 - 3a. PUMP FLOW RATE
 - 3b. QUALITY AND TYPE OF SEDIMENT
 - 3c. VOLUME OF MATERIALS NEEDING CONTAINMENT

SEDIMENT CONTROL TRAP WITH DEWATERING BAG
NOT TO SCALE REV 000000 C-914



NOTES:

1. THE PIPE SHALL BE PROPERLY SECURED TO PREVENT DISPLACEMENT DURING THE INSTALLATION OF CONCRETE.
2. CONCRETE SHALL EXTEND ALONG THE LENGTH OF THE PIPE IN BOTH DIRECTIONS A MINIMUM OF ONE FOOT BEYOND THE LIMITS OF THE MODIFIED BELL.

RCP TO RCP CONNECTION DETAIL
NOT TO SCALE REV 000000 C-915

REV	DATE	BY	DESCRIPTION

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1\"/>
DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALESSIO

90% DESIGN PHASE - APRIL 2021

NOT FOR CONSTRUCTION

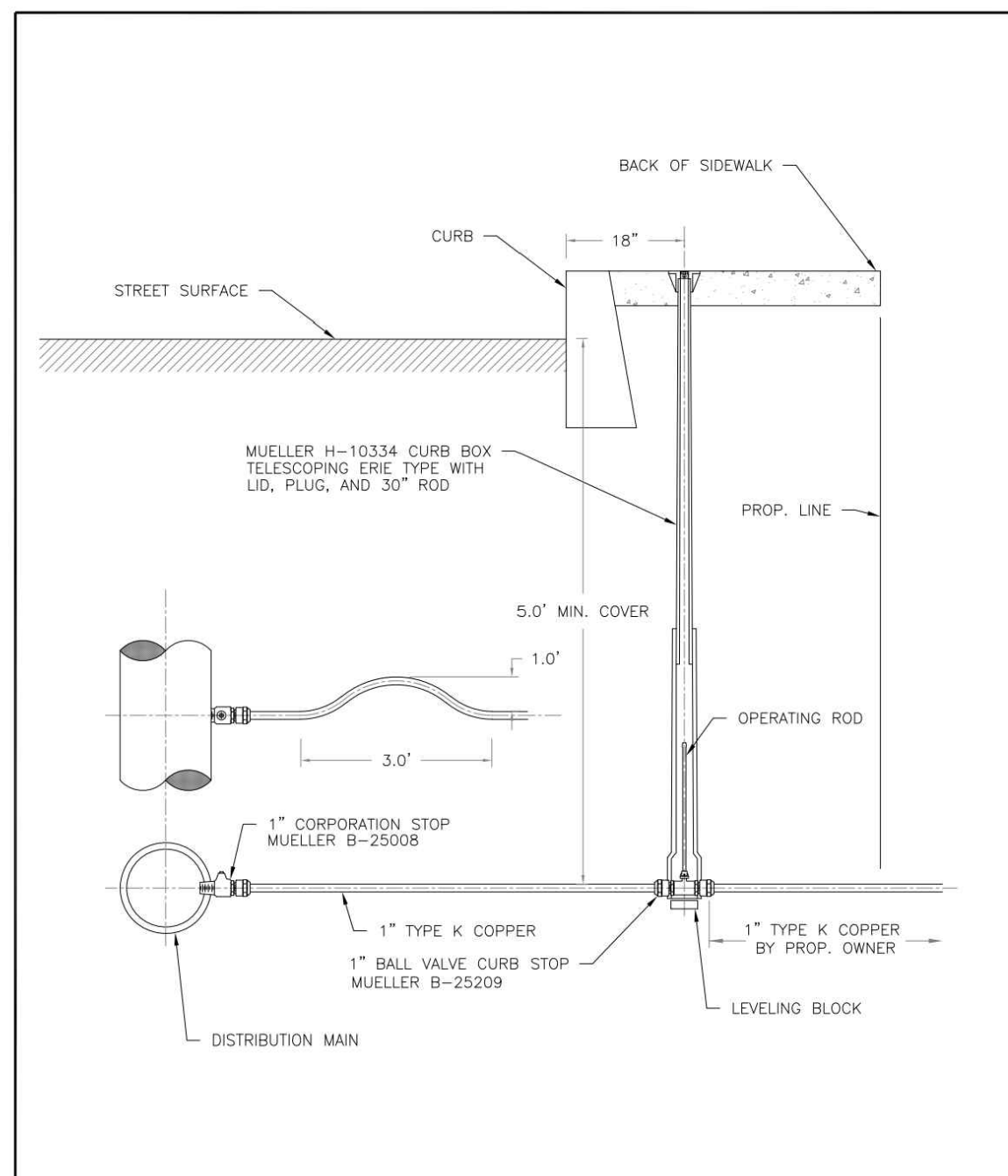
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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

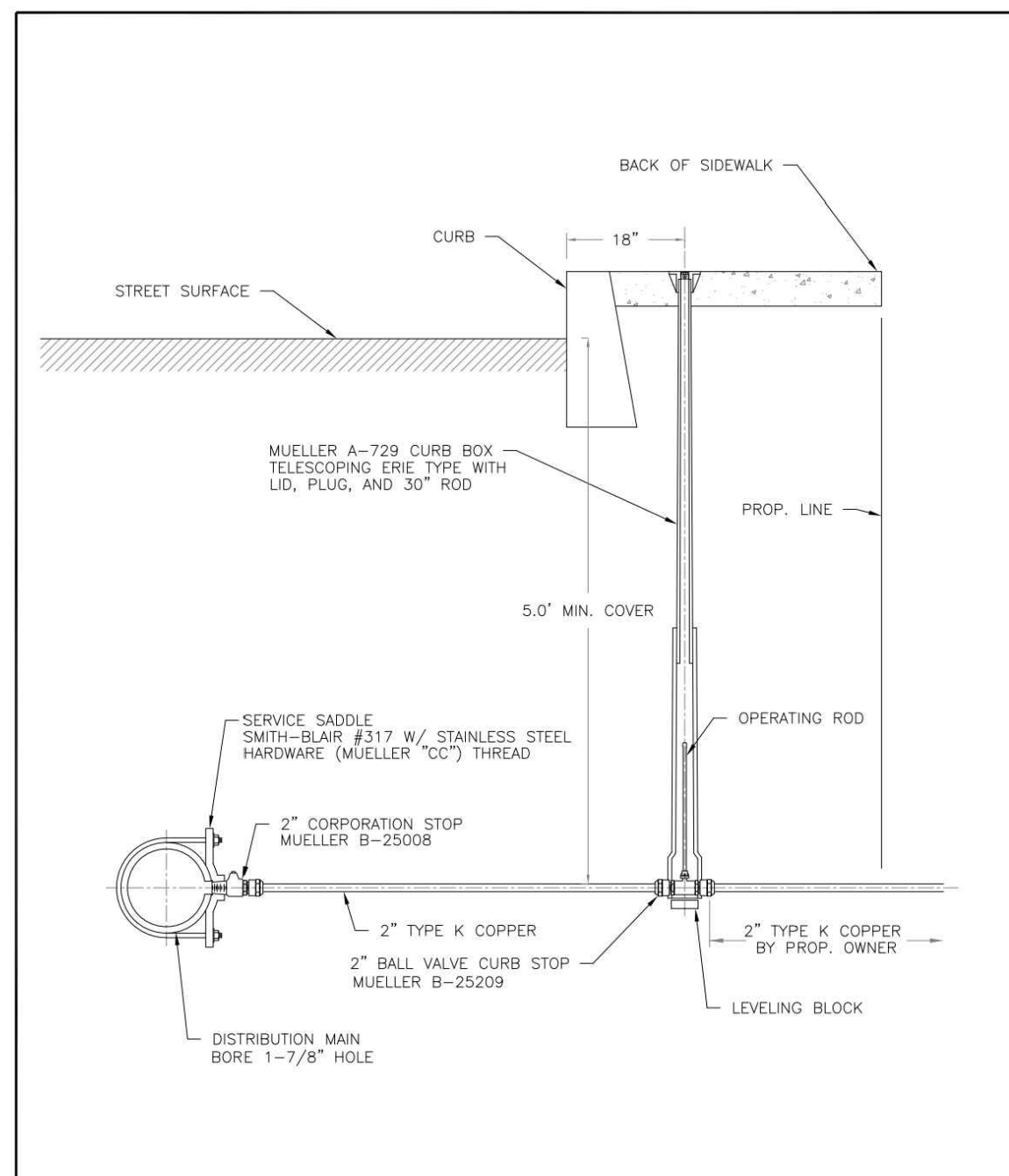
NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS VIII



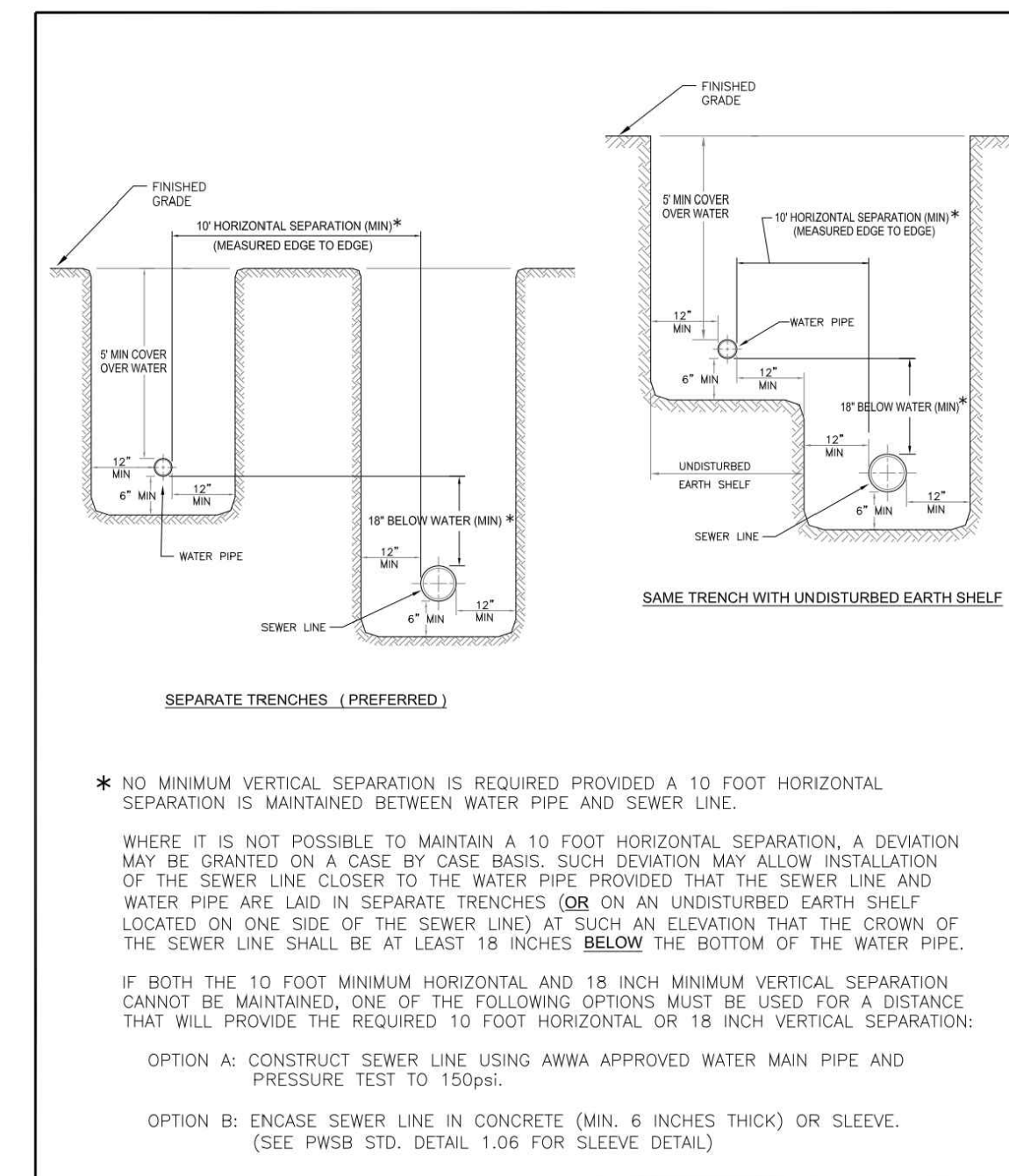
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NEW 1" SERVICE INSTALLATION	
REVISION DATE: FEB. 2020	STD. NO. 1.01
NOT TO SCALE	

NEW 1" SERVICE INSTALLATION
NOT TO SCALE REV 000000 W-101



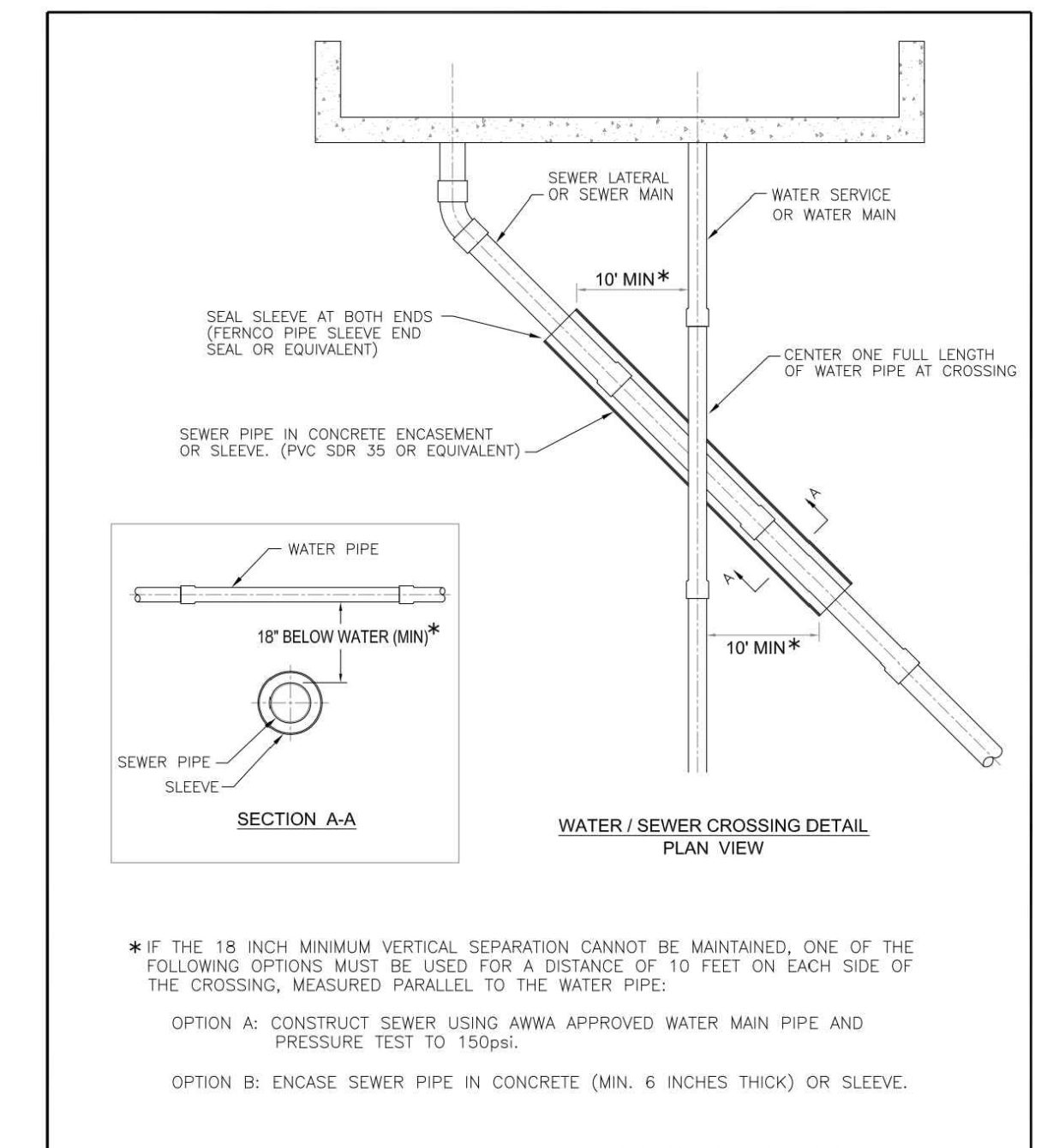
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REVISION DATE: FEB. 2020	STD. NO. 1.03
NOT TO SCALE	

NEW 2" SERVICE INSTALLATION
SUB-TITLE REV 000000 W-103



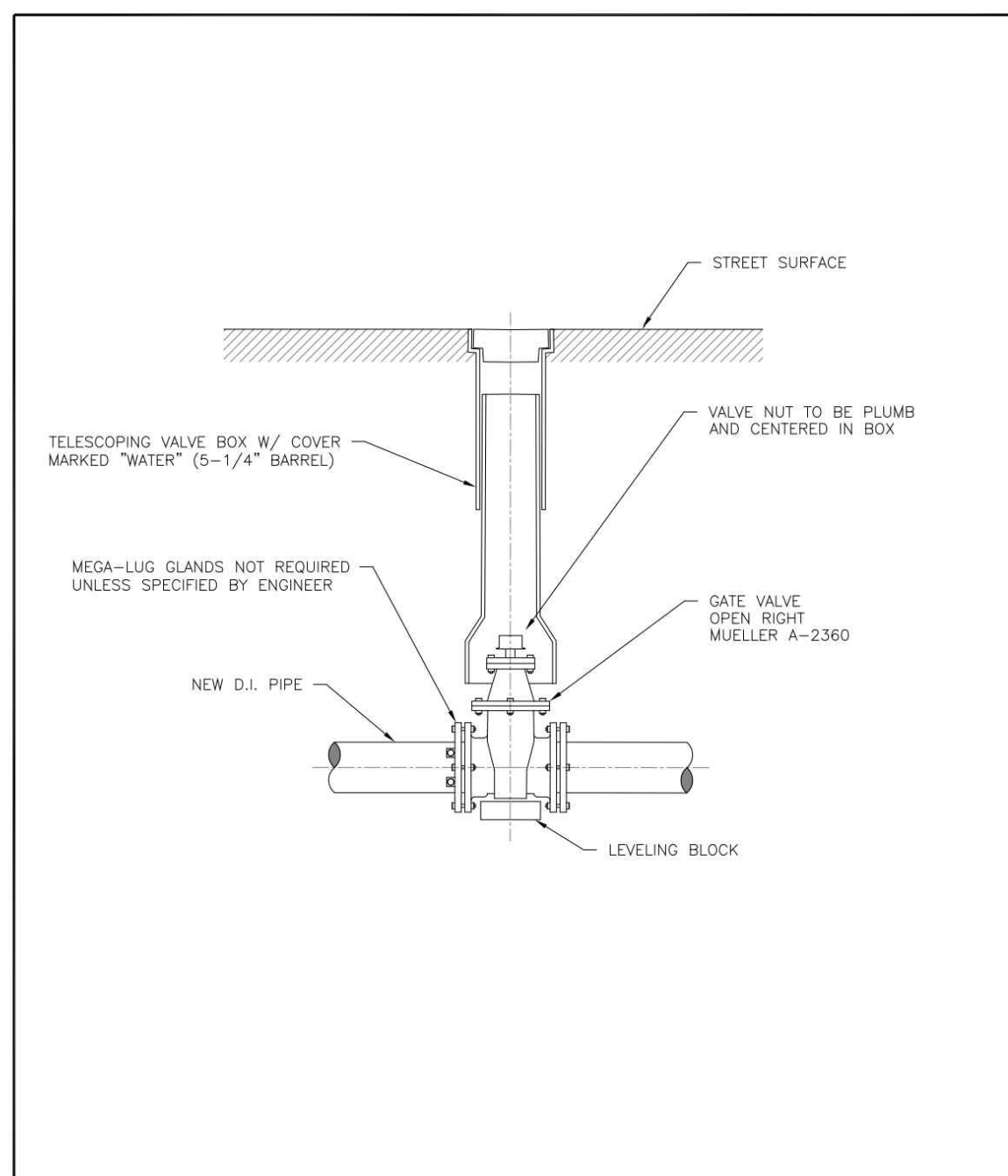
PAWTUCKET WATER SUPPLY BOARD	
WATER AND SEWER SEPARATION DETAIL FOR PARALLEL PLACEMENT	
REVISION DATE: DEC. 2013	STD. NO. 1.05
NOT TO SCALE	

WATER AND SEWER SEPARATION DETAIL FOR PARALLEL PLACEMENT
REV 000000 W-105



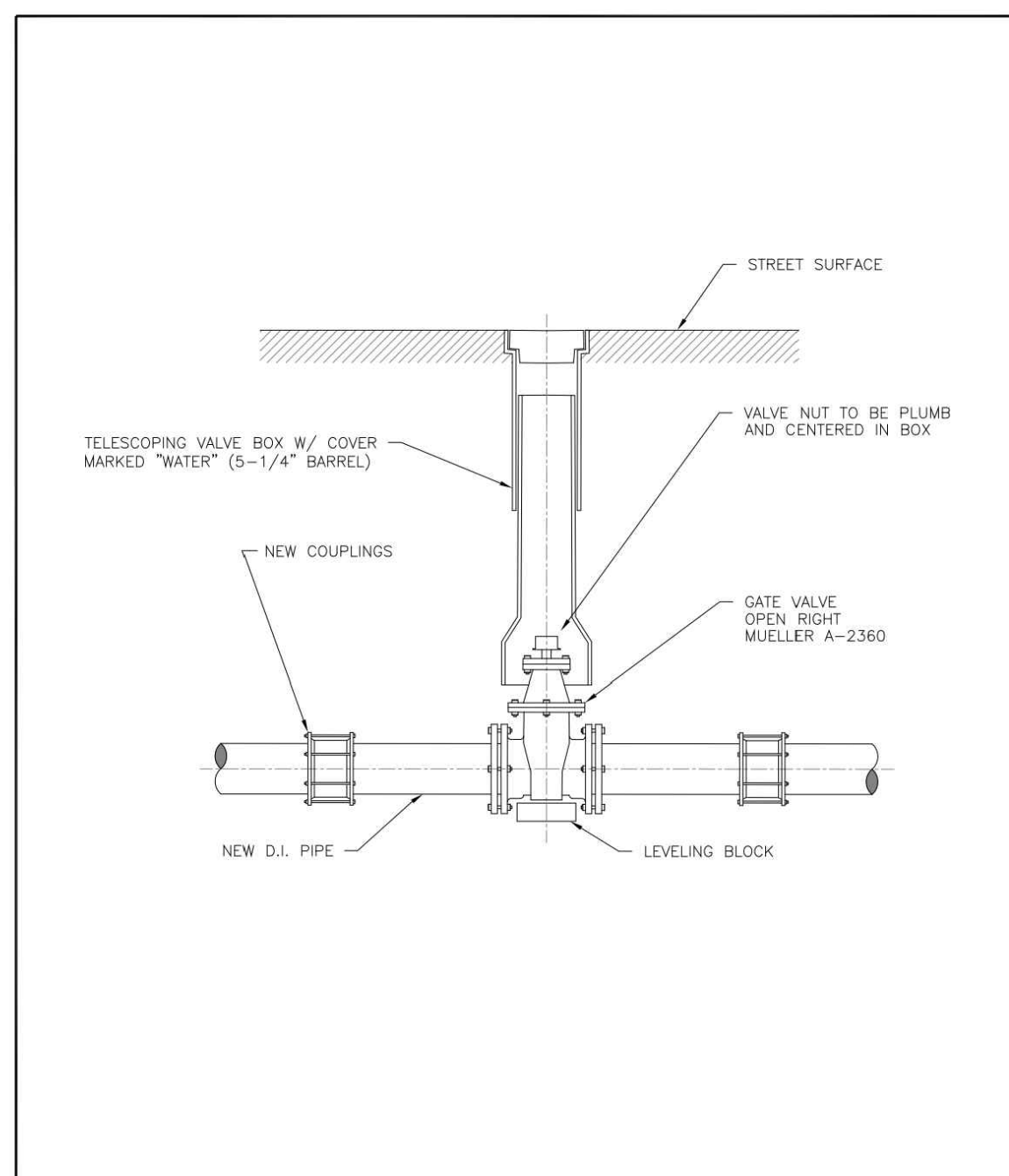
PAWTUCKET WATER SUPPLY BOARD	
WATER AND SEWER SEPARATION DETAIL AT CROSSING	
REVISION DATE: JAN. 2012	STD. NO. 1.06
NOT TO SCALE	

WATER AND SEWER SEPARATION DETAIL AT CROSSING
REV 000000 W-106



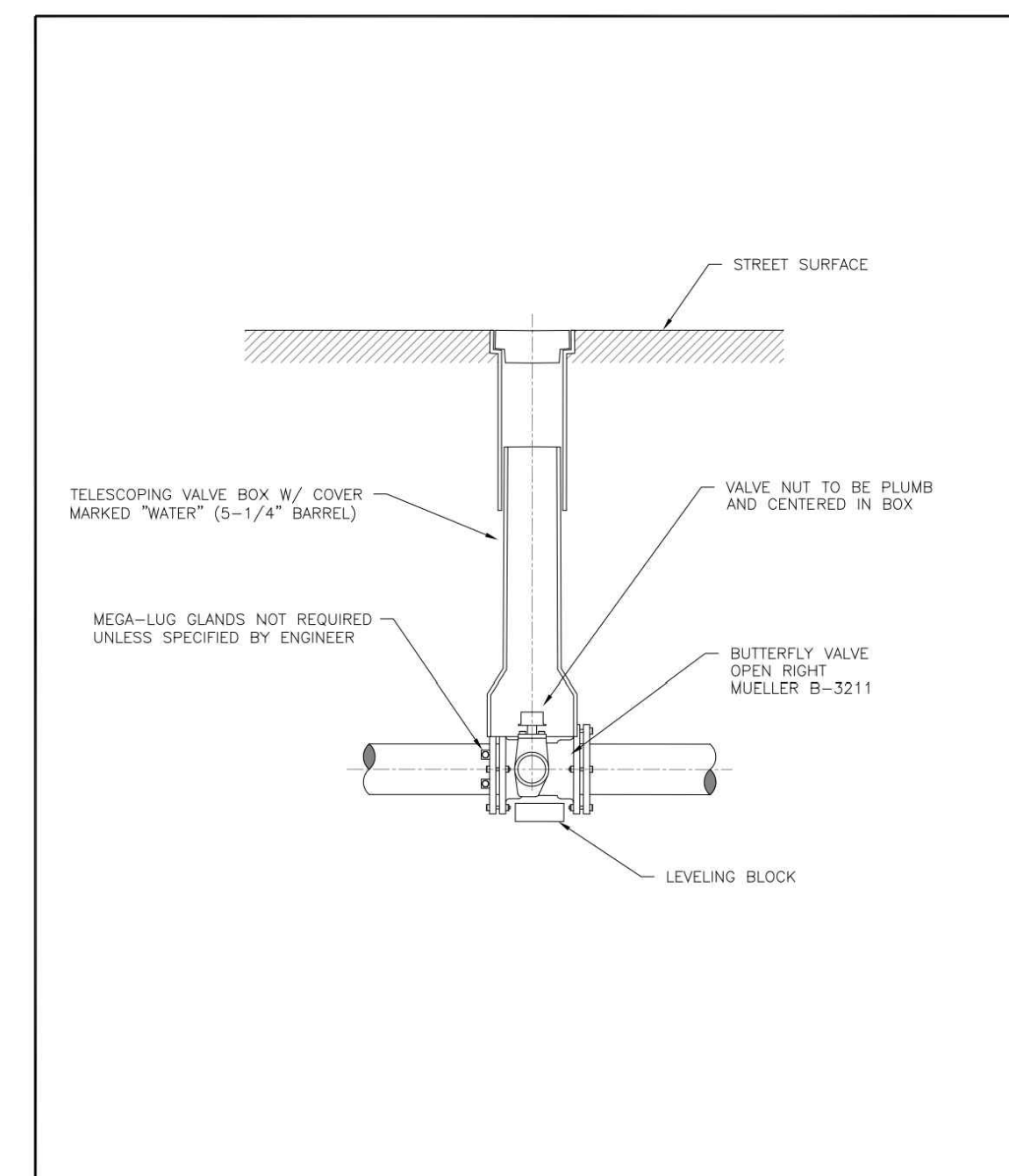
PAWTUCKET WATER SUPPLY BOARD	
GATE VALVE INSTALLATION	
REVISION DATE: FEB. 2006	STD. NO. 3.01
NOT TO SCALE	

GATE VALVE INSTALLATION
NOT TO SCALE REV 000000 W-301



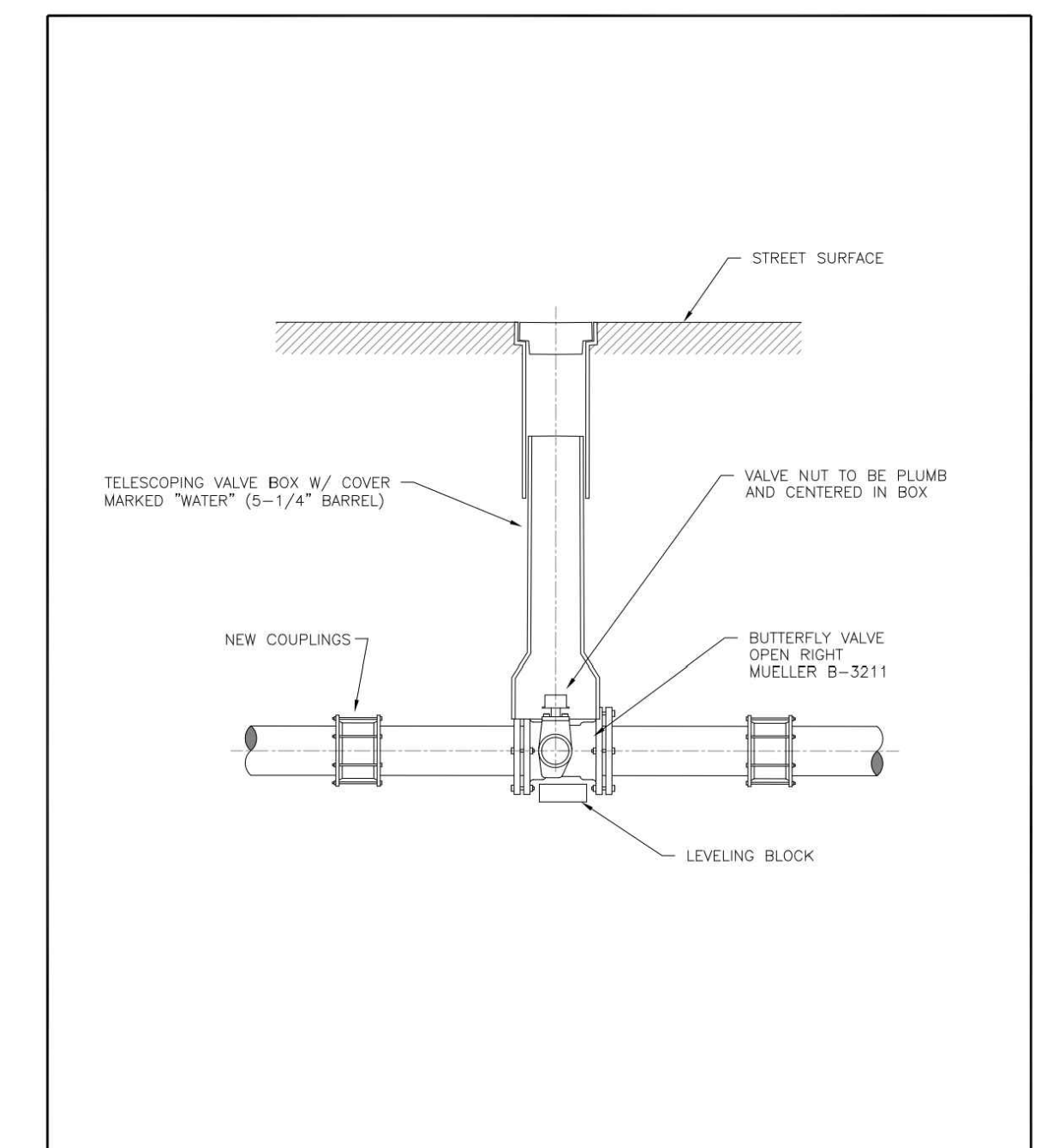
PAWTUCKET WATER SUPPLY BOARD	
GATE VALVE REPLACEMENT	
REVISION DATE: AUG. 2013	STD. NO. 3.02
NOT TO SCALE	

GATE VALVE REPLACEMENT
NOT TO SCALE REV 000000 W-302



PAWTUCKET WATER SUPPLY BOARD	
BUTTERFLY VALVE INSTALLATION	
REVISION DATE: FEB. 2006	STD. NO. 3.03
NOT TO SCALE	

BUTTERFLY VALVE INSTALLATION
NOT TO SCALE REV 000000 W-303



PAWTUCKET WATER SUPPLY BOARD	
BUTTERFLY VALVE REPLACEMENT	
REVISION DATE: AUG. 2013	STD. NO. 3.04
NOT TO SCALE	

BUTTERFLY VALVE REPLACEMENT
NOT TO SCALE REV 000000 W-304

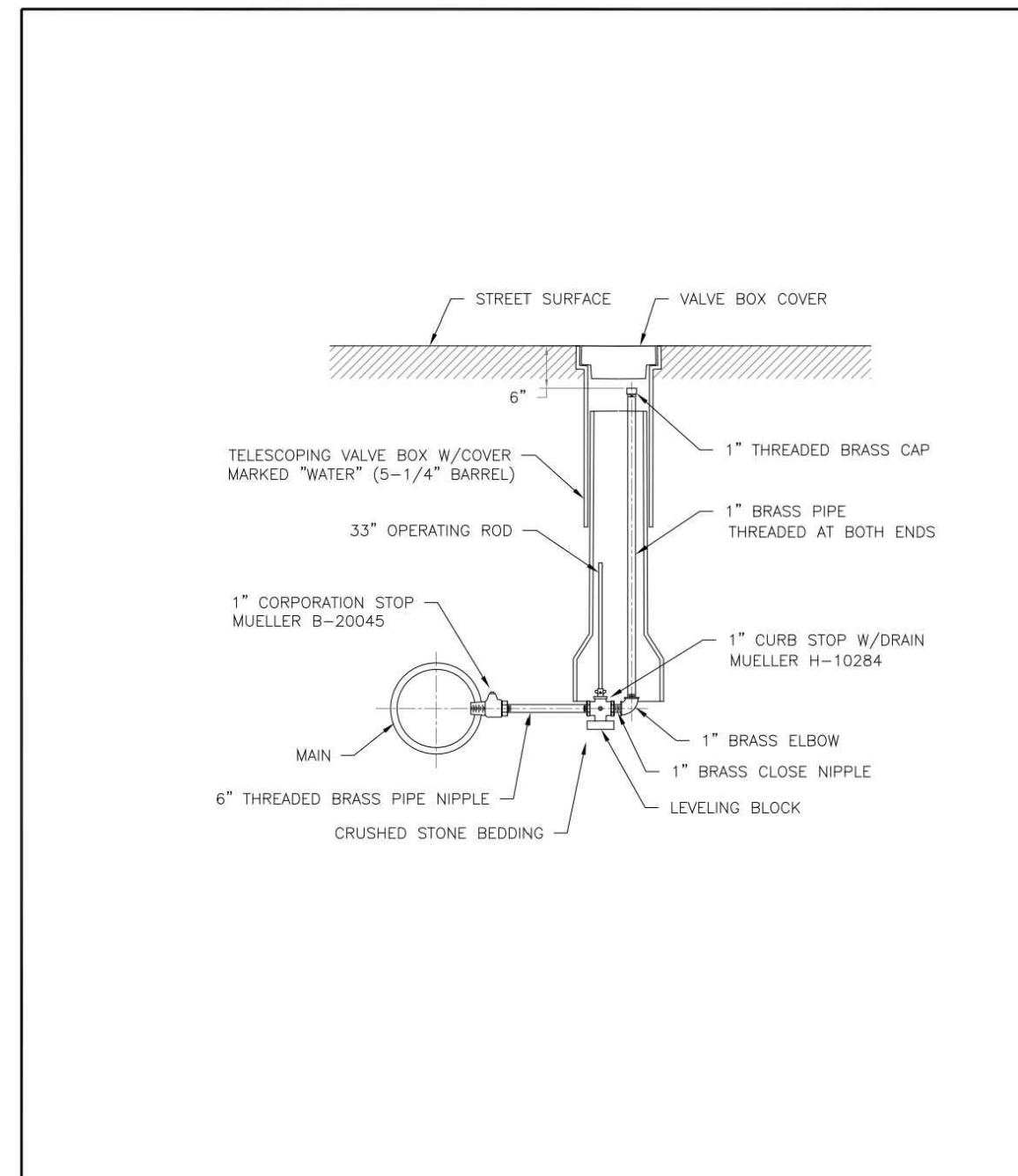
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WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALESSIO

90% DESIGN PHASE - APRIL 2021

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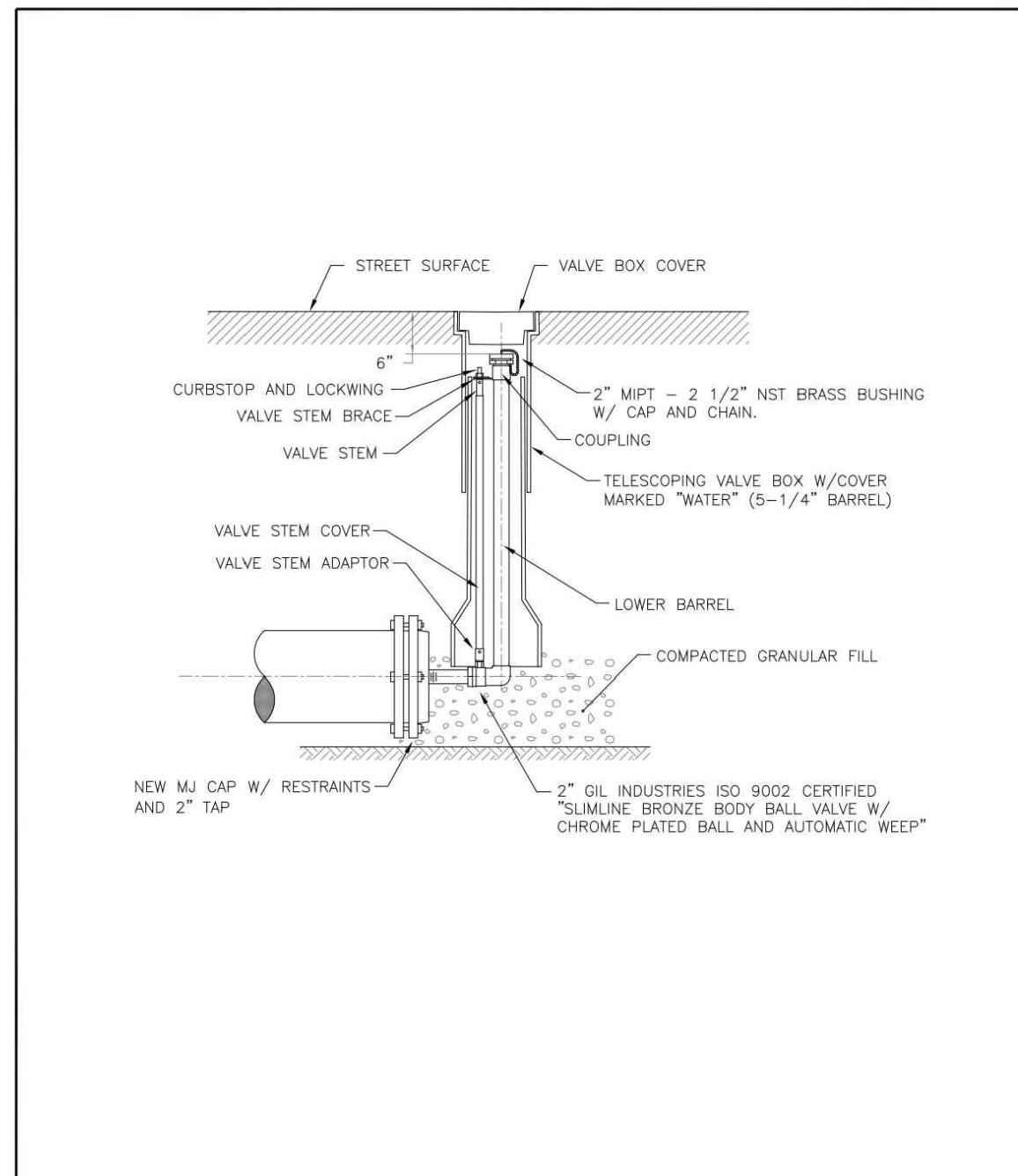




Pawtucket Water Supply Board

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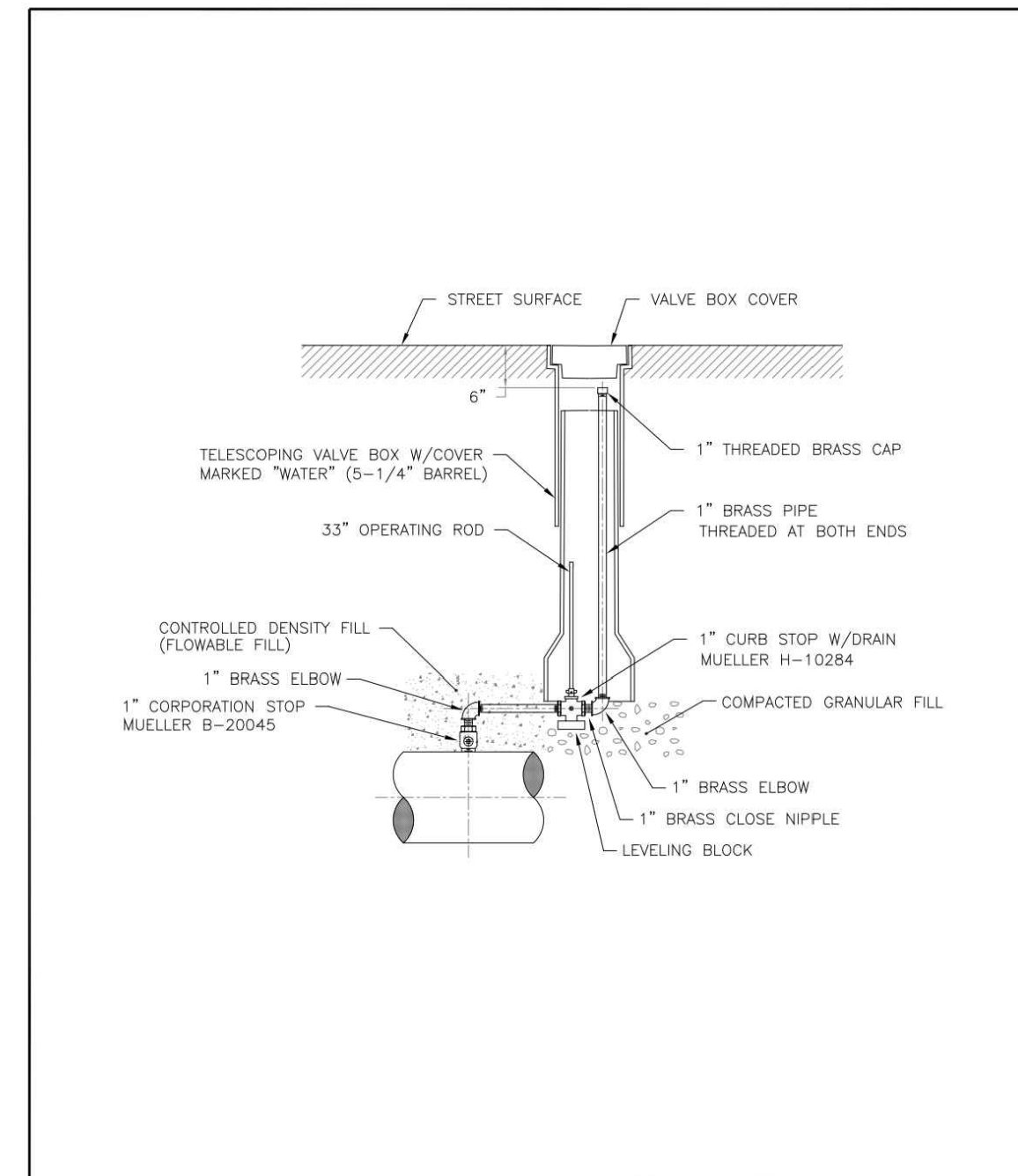
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Pawtucket Water Supply Board

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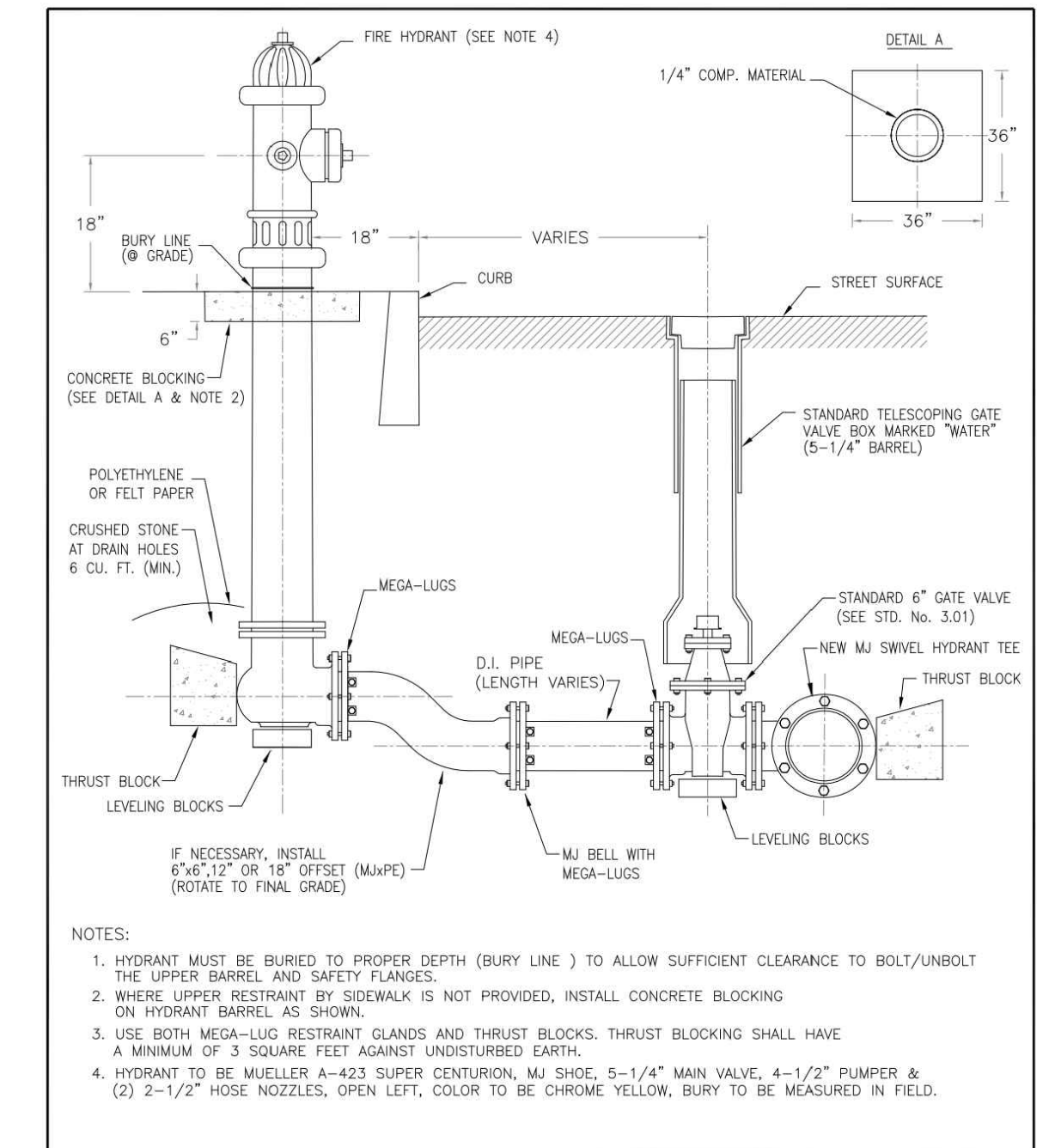
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Pawtucket Water Supply Board

1\"/>

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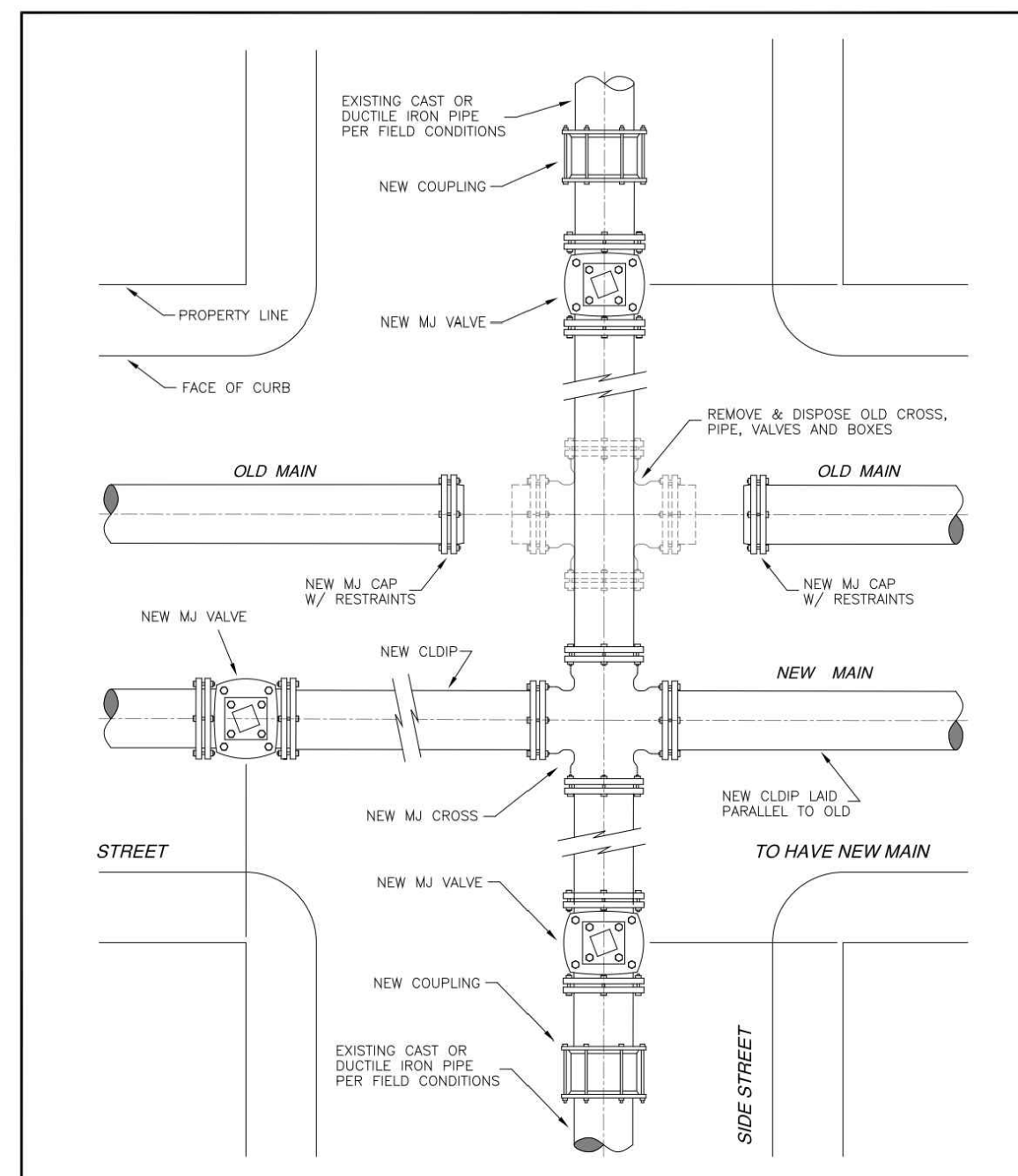


Pawtucket Water Supply Board

NEW FIRE HYDRANT AND RESET FIRE HYDRANT INSTALLATION

REVISION DATE: AUG. 2013 NOT TO SCALE STD. NO. **4.01**

NEW FIRE HYDRANT AND RESET FIRE HYDRANT INSTALLATION

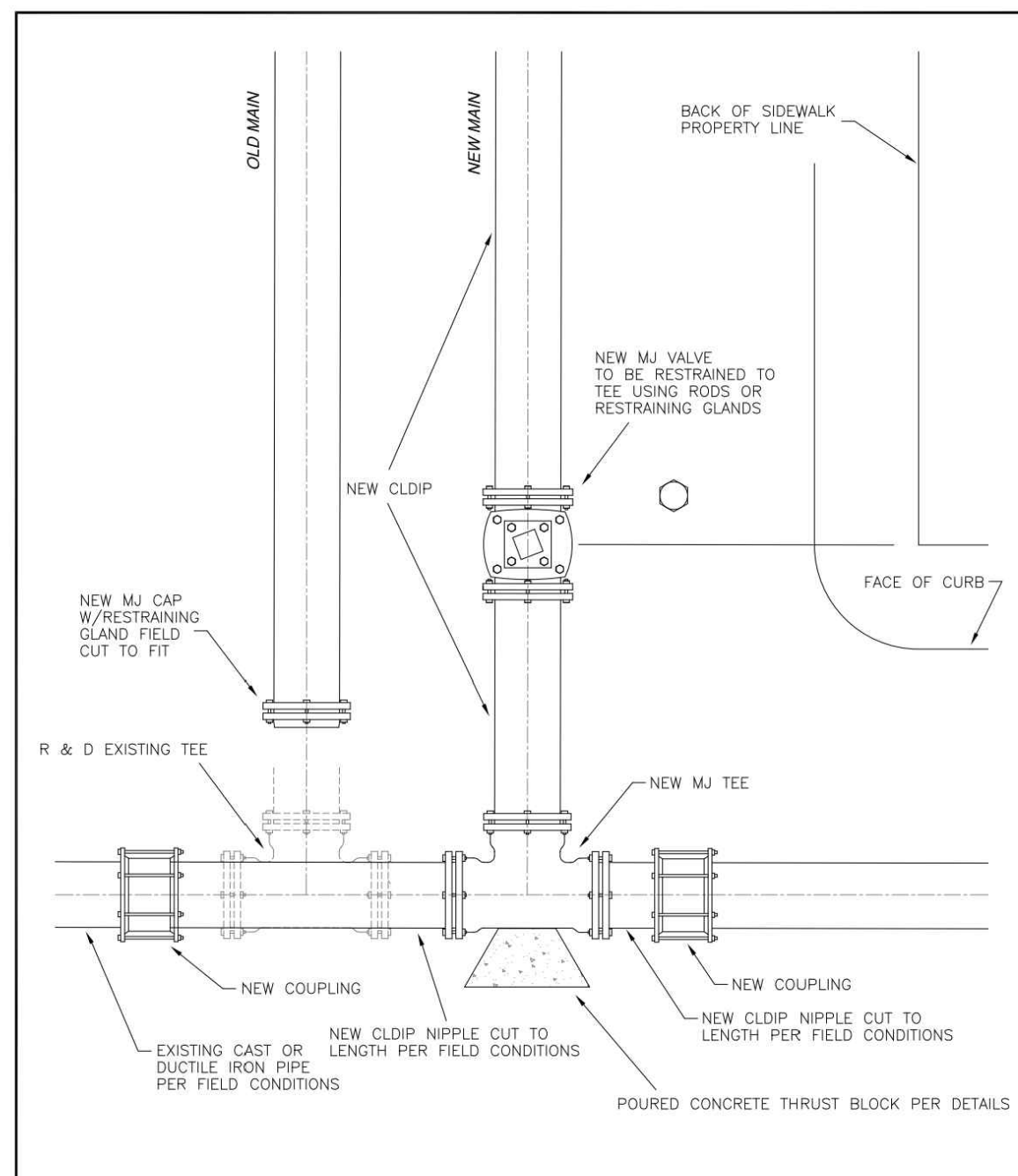


Pawtucket Water Supply Board

MAIN CONNECTION AT INTERSECTION (CROSS)

REVISION DATE: FEB. 2006 NOT TO SCALE STD. NO. **5.01**

MAIN CONNECTION AT INTERSECTION (CROSS)

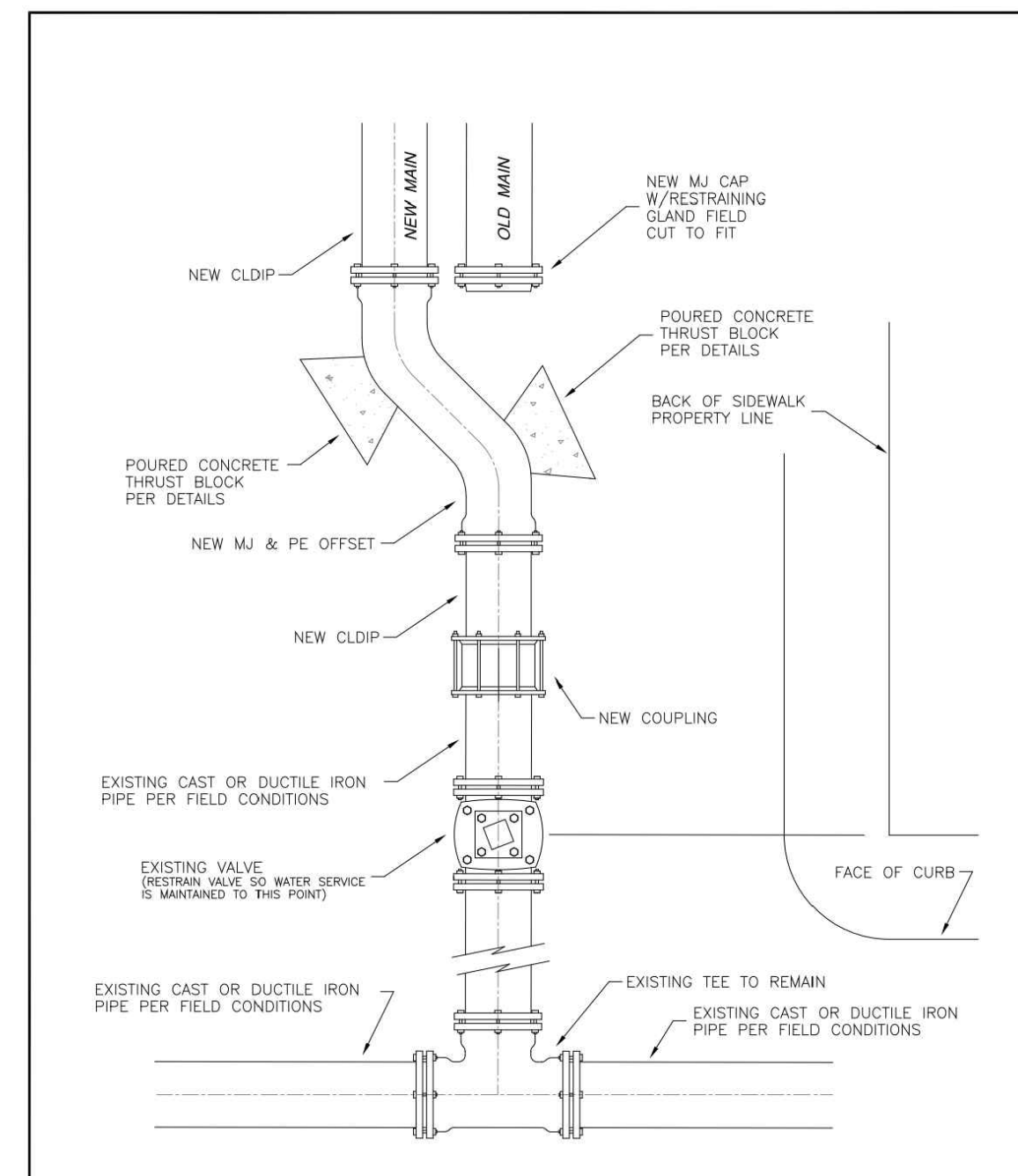


Pawtucket Water Supply Board

MAIN CONNECTION AT INTERSECTION (CUT-IN TEE)

REVISION DATE: FEB. 2006 NOT TO SCALE STD. NO. **5.02**

MAIN CONNECTION AT INTERSECTION (CUT-IN TEE)

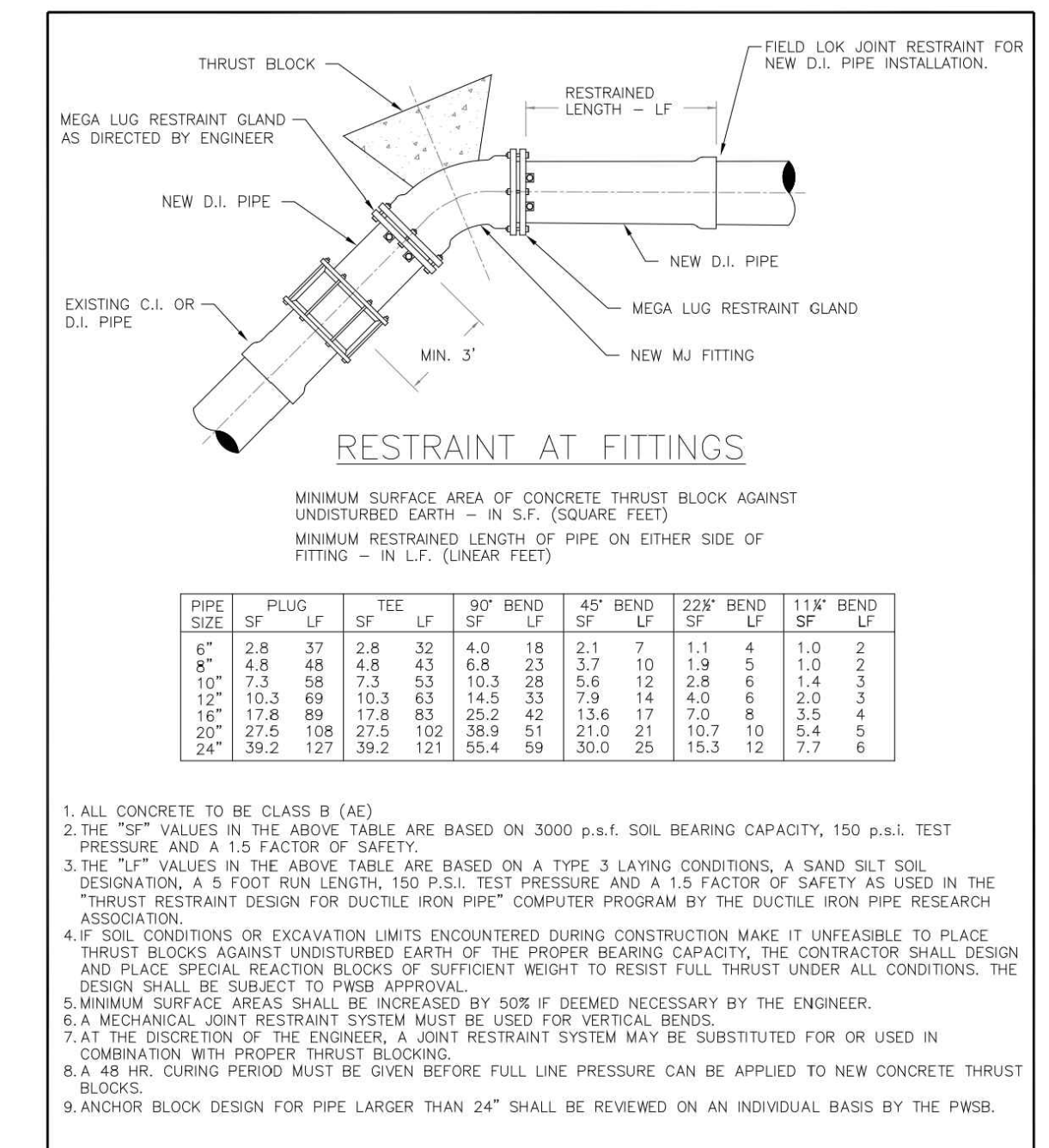


Pawtucket Water Supply Board

MAIN CONNECTION AT INTERSECTION (OFFSET)

REVISION DATE: FEB. 2006 NOT TO SCALE STD. NO. **5.03**

MAIN CONNECTION AT INTERSECTION (OFFSET)



Pawtucket Water Supply Board

RESTRAINT AT FITTINGS

REVISION DATE: MAY 2006 NOT TO SCALE STD. NO. **5.04**

RESTRAINT AT FITTINGS

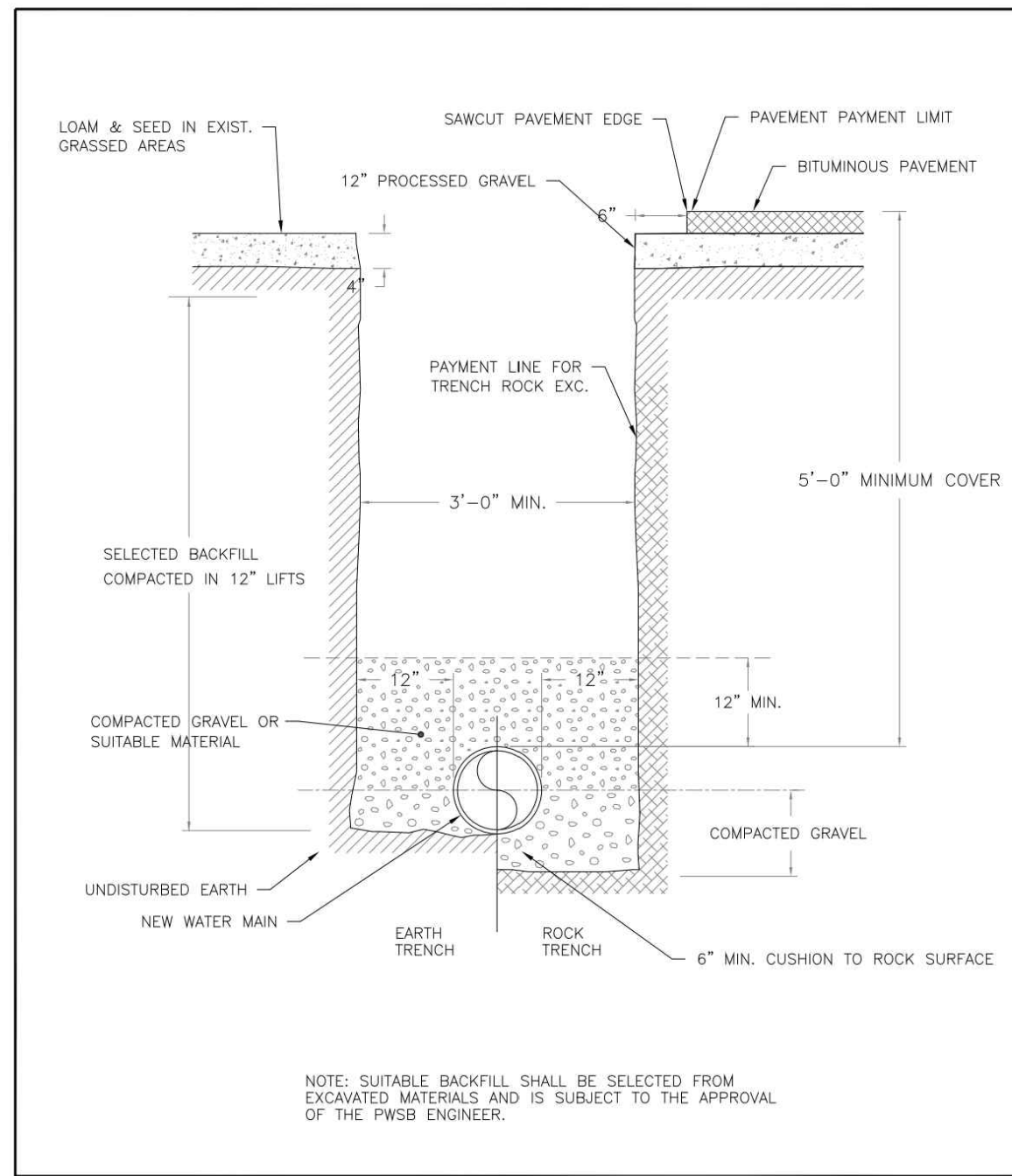
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WARNING	IF THIS BAR DOES NOT MEASURE 1\"/>
DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALELIO

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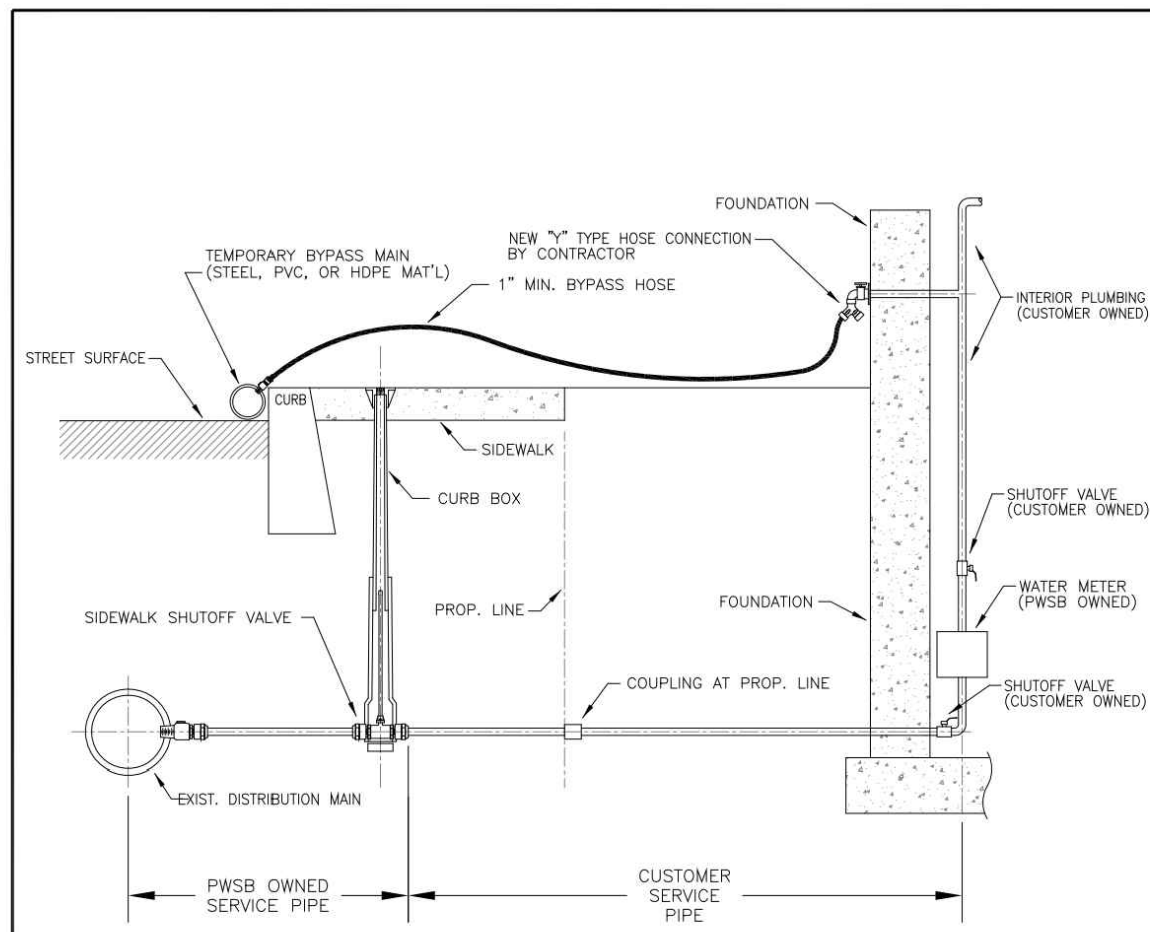
NOTE: SUITABLE BACKFILL SHALL BE SELECTED FROM EXCAVATED MATERIALS AND IS SUBJECT TO THE APPROVAL OF THE PWSB ENGINEER.



PAWTUCKET WATER SUPPLY BOARD		
TYPICAL TRENCH DETAIL		
REVISION DATE: MAY 2006	NOT TO SCALE	STD. NO. 6.01

TYPICAL TRENCH DETAIL
NOT TO SCALE

REV 000000 W-601



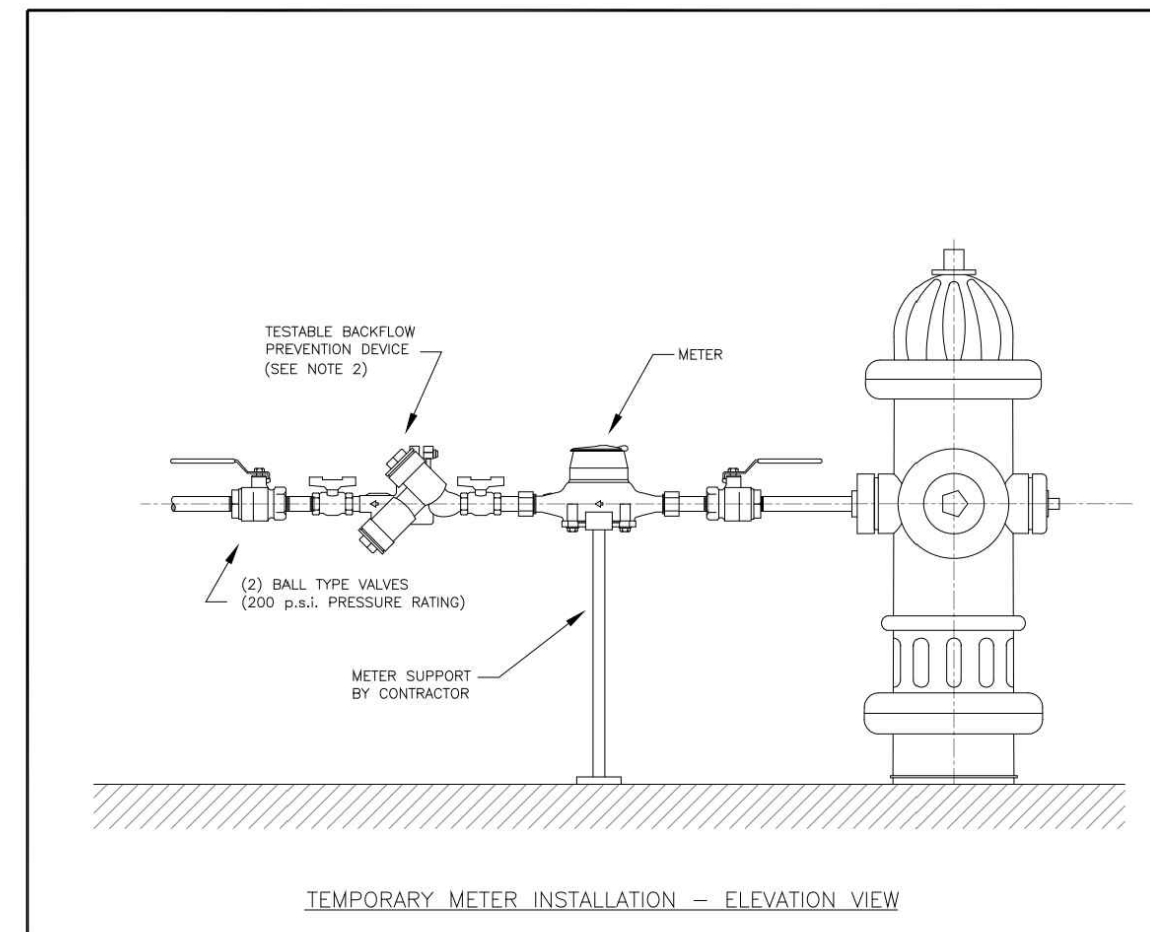
- TEMPORARY BYPASS PIPING & SERVICE MATERIAL SHALL BE APPROVED BY THE PWSB PRIOR TO INSTALLATION AND SHALL BE NSF-61 AND/OR FDA APPROVED FOR CONTACT WITH DRINKING WATER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PWSB SPECIFICATIONS FOR "TEMPORARY BYPASS PIPING AND SERVICES" LATEST REVISION.
- PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT 2 COPIES OF BYPASS LAYOUT PLAN TO THE PWSB FOR REVIEW & APPROVAL.
- TEMPORARY BYPASS MAIN SHALL REQUIRE A MINIMUM OF TWO "FEED" CONNECTIONS TO EXISTING ACTIVE HYDRANTS OR MAINS, IF POSSIBLE.
- TEMPORARY REMOVAL OF WATER METERS SHALL BE PERFORMED BY PWSB METER DEPARTMENT PERSONNEL ONLY.



PAWTUCKET WATER SUPPLY BOARD		
TYPICAL "TEMPORARY BYPASS PIPING" INSTALLATION		
REVISION DATE: JAN 2011	NOT TO SCALE	STD. NO. 8.01

TYPICAL "TEMPORARY BYPASS PIPING" INSTALLATION
NOT TO SCALE

REV 000000 W-801



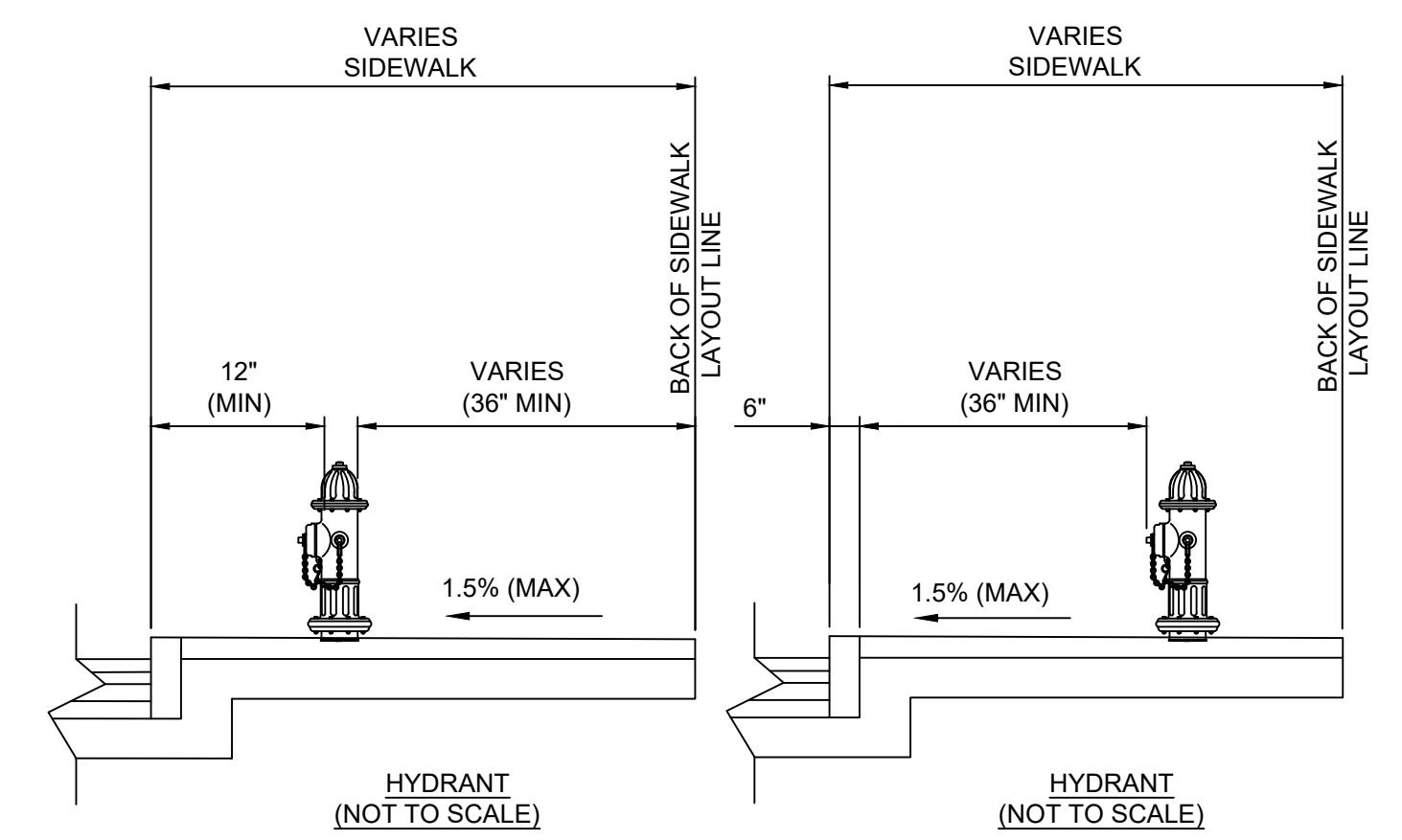
- NOTES:
- THE METER SHALL BE INSTALLED HORIZONTALLY.
 - TEMPORARY WATER SERVICE CONNECTIONS REQUIRE A PWSB APPROVED TESTABLE BACKFLOW PREVENTION DEVICE. ALL IN ACCORDANCE WITH SECTION 10 OF THE PWSB REGULATIONS, LATEST REVISION.
 - CONTRACTOR MUST NOTIFY THE PWSB METER DEPARTMENT WHEN THE METER INSTALLATION IS COMPLETE.



PAWTUCKET WATER SUPPLY BOARD		
TEMPORARY WATER SERVICE CONNECTION AT HYDRANT		
REVISION DATE: JAN 2011	NOT TO SCALE	STD. NO. 8.02

TEMPORARY WATER SERVICE CONNECTION AT HYDRANT
NOT TO SCALE

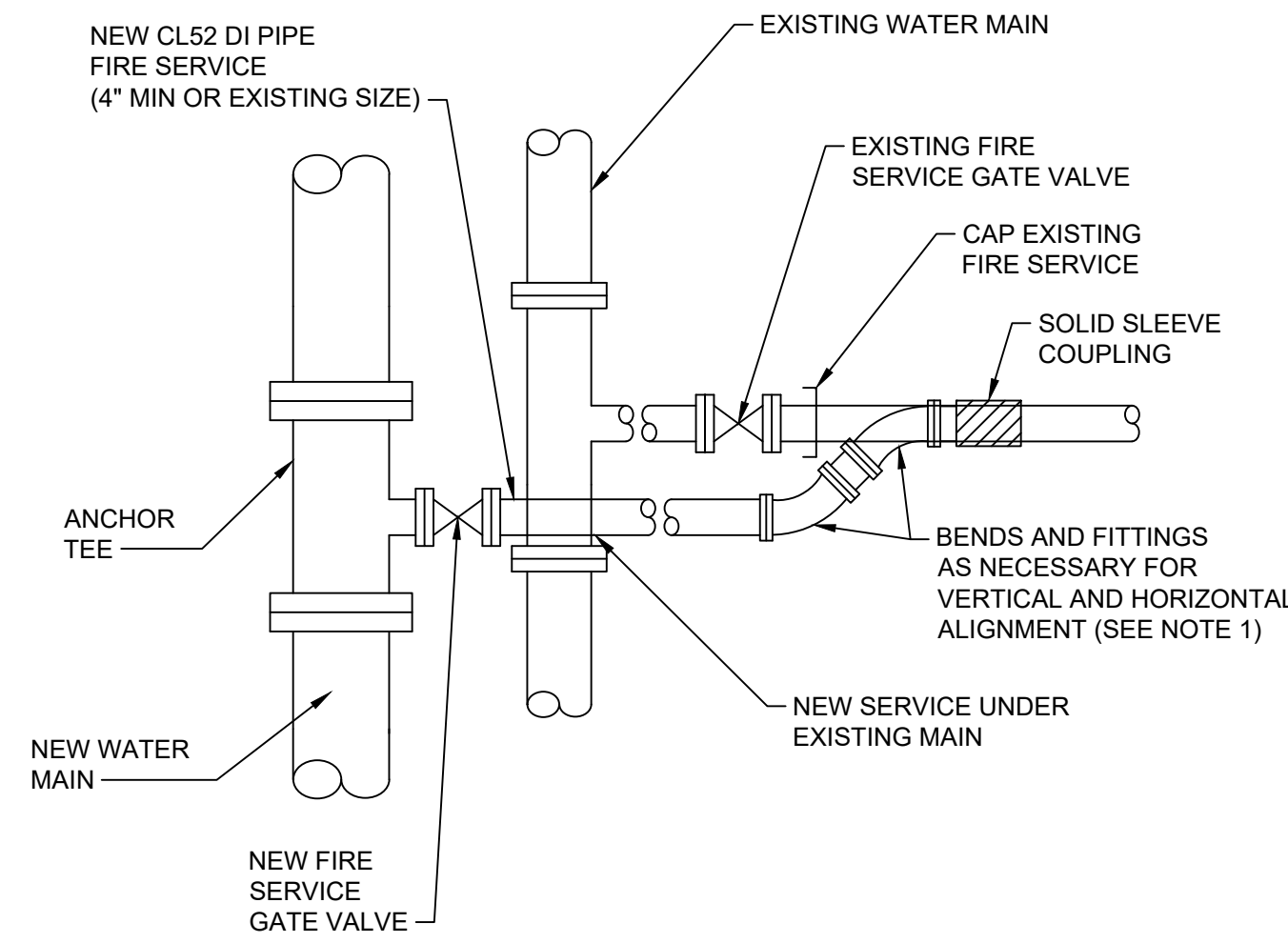
REV 000000 W-802



- NOTES:
- MINIMUM CLEAR PATH ON ALL SIDEWALKS SHALL BE 36", EXCLUDING THE CURB.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES ETC) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 36 INCHES. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENT.

HYDRANT / SIDEWALK CLEARANCE DETAILS
NOT TO SCALE

REV 000000 W-901

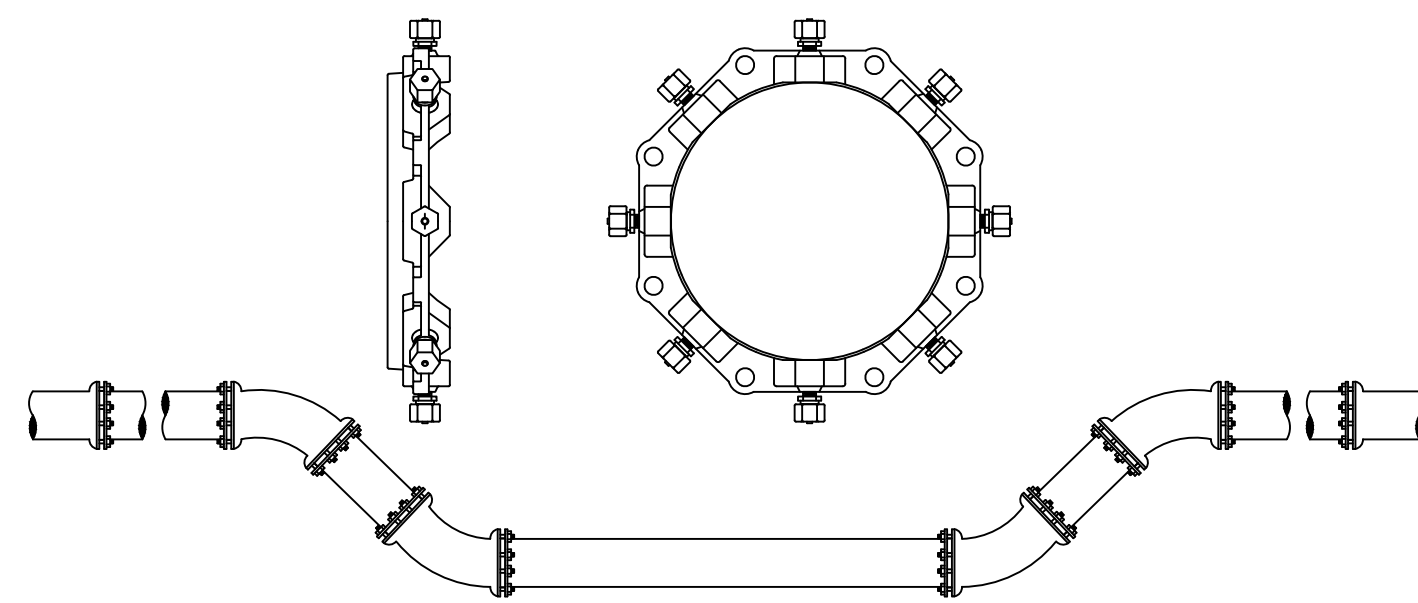


- NOTES:
- ALL FITTINGS SHALL BE RESTRAINED.

TYPICAL FIRE SERVICE CONNECTION
NOT TO SCALE

TYPICAL FIRE SERVICE CONNECTION
NOT TO SCALE

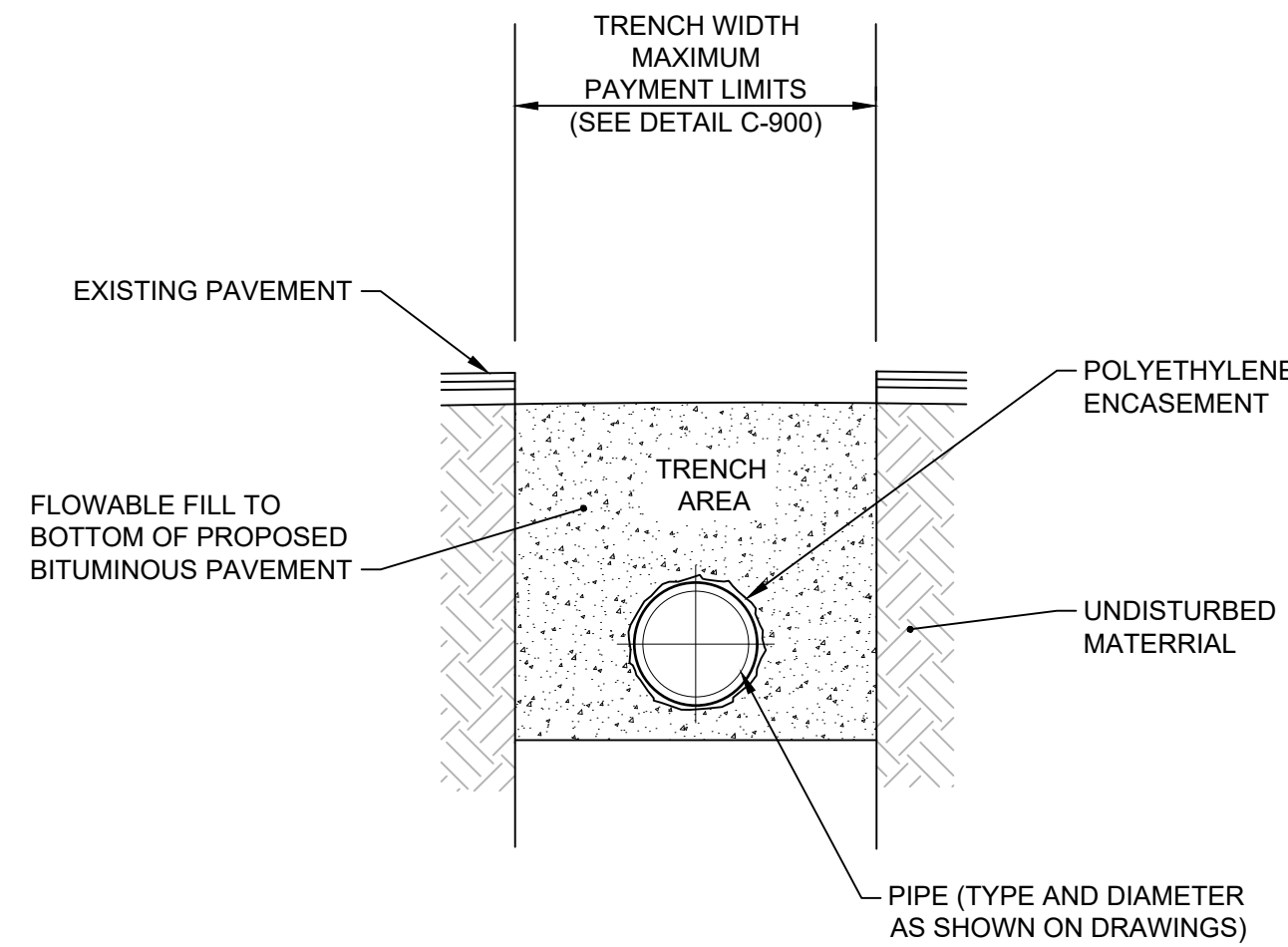
REV 000000 W-902



- NOTES:
- DEVICES NEED TO BE PLACED BEYOND THE AREA OF RESTRAINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TYPICAL THRUST RESTRAINT WEDGE ACTION TYPE JOINTS
NOT TO SCALE

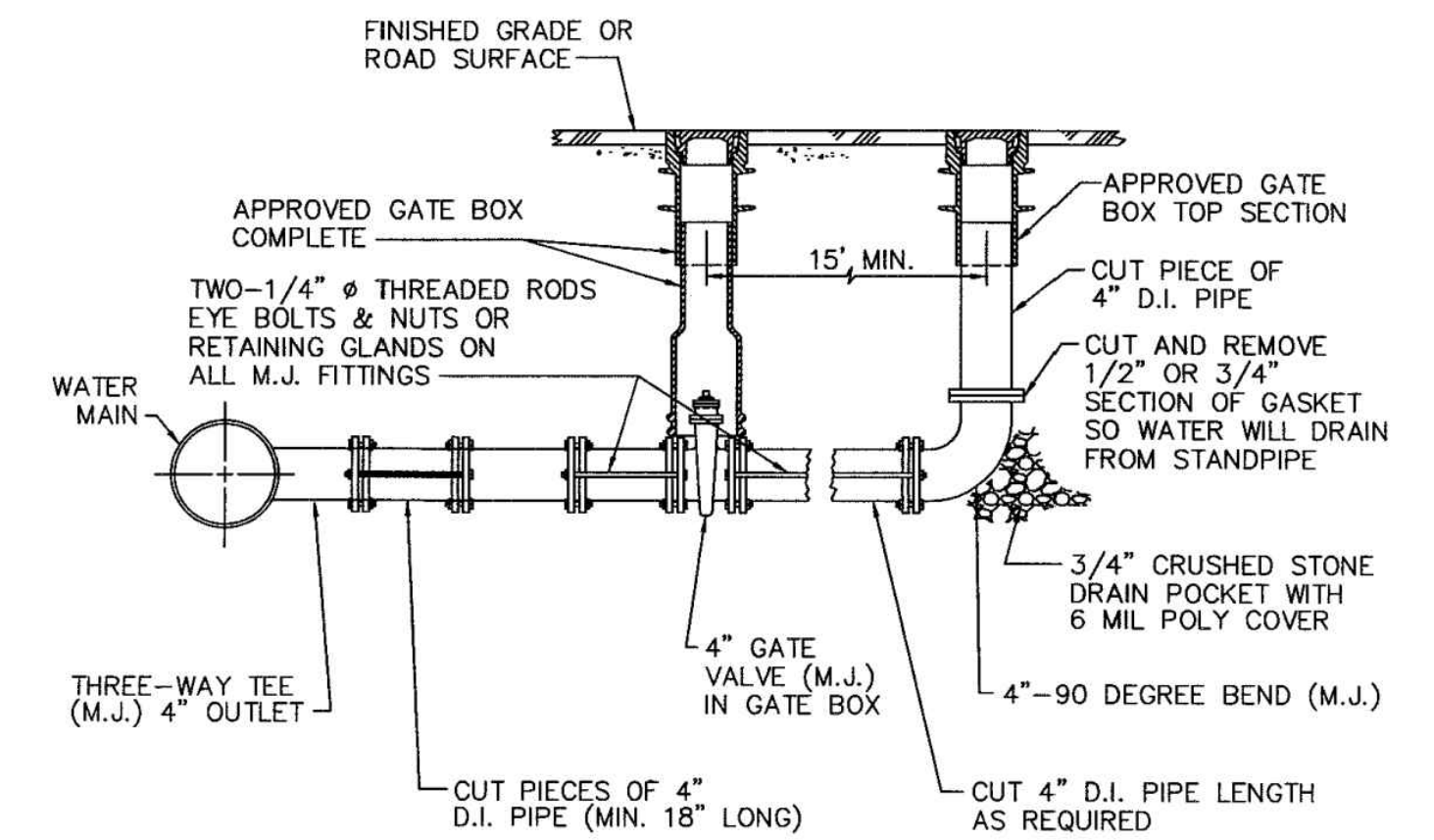
REV 000000 W-903



- NOTES:
- ALL DUCTILE IRON WATER PIPE THAT IS BACKFILLED WITH CONTROLLED DENSITY FILL MUST BE ENCASED WITH 4-MIL HDCL OR 8-MIL LLD POLYETHYLENE IN ACCORDANCE WITH ANSI/AWWA C105/A2.5, METHOD OF INSTALLATION.
 - THE PIPE SHALL BE PROPERLY SECURED AND SUPPORTED TO PREVENT DISPLACEMENT DURING THE POURING OF CONTROLLED DENSITY FILL.

FLOWABLE FILL BACKFILL OF DUCTILE IRON WATER PIPE
NOT TO SCALE

REV 000000 W-904



4" BLOW-OFF ASSEMBLY (BRANCH TYPE)
NOT TO SCALE

4" BLOW-OFF ASSEMBLY (BRANCH TYPE)
SUB-TITLE

REV 000000 W-905

REV	DATE	BY	DESCRIPTION

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALESSIO

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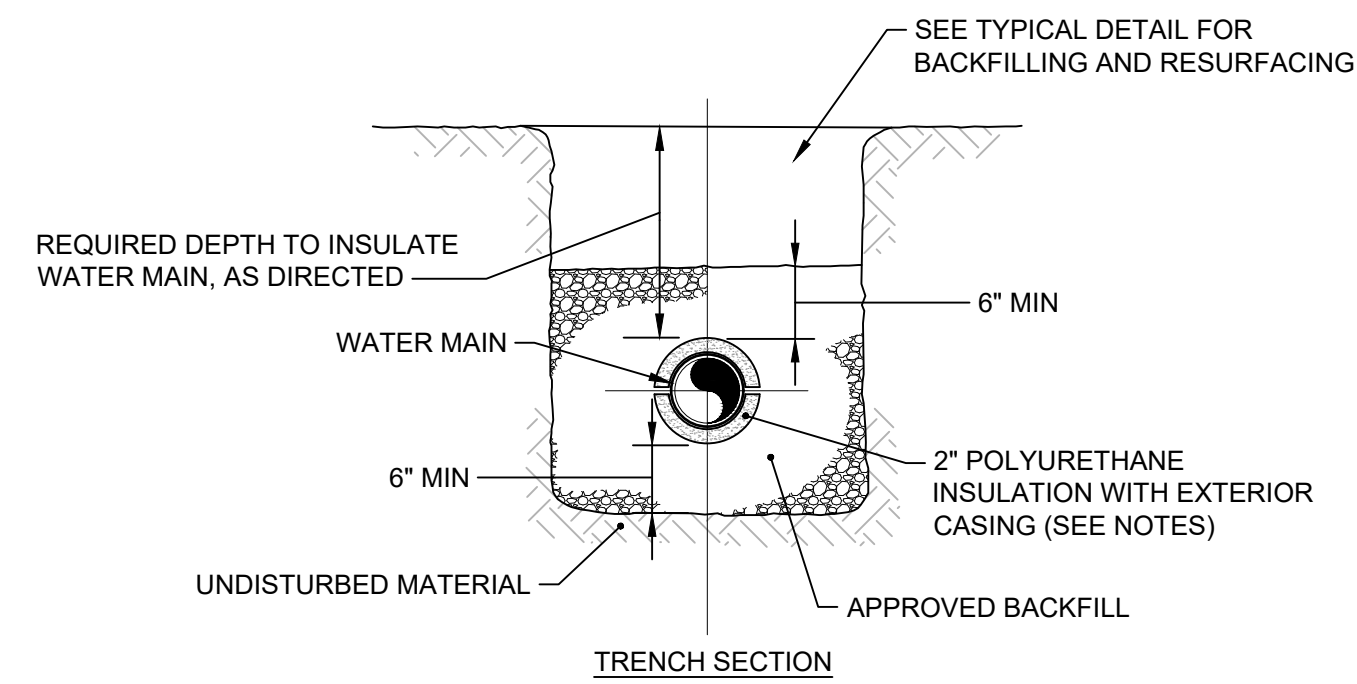
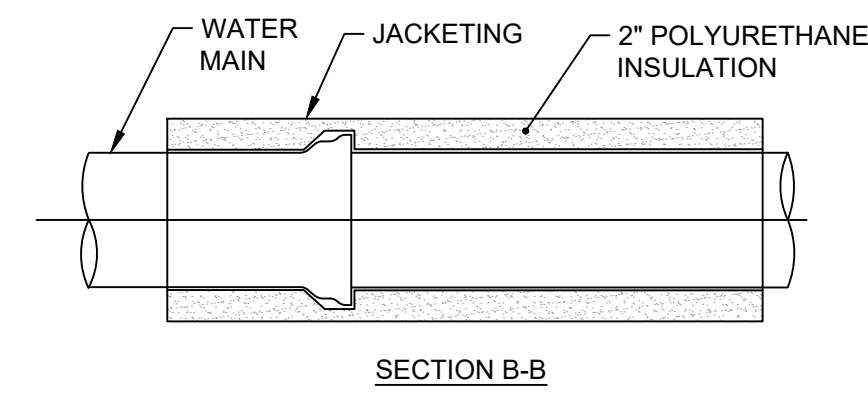
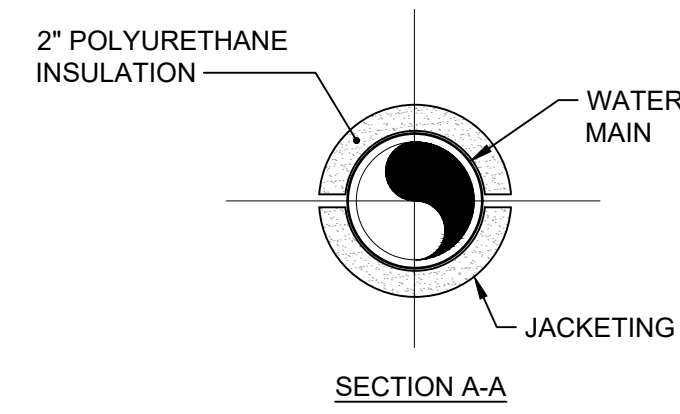
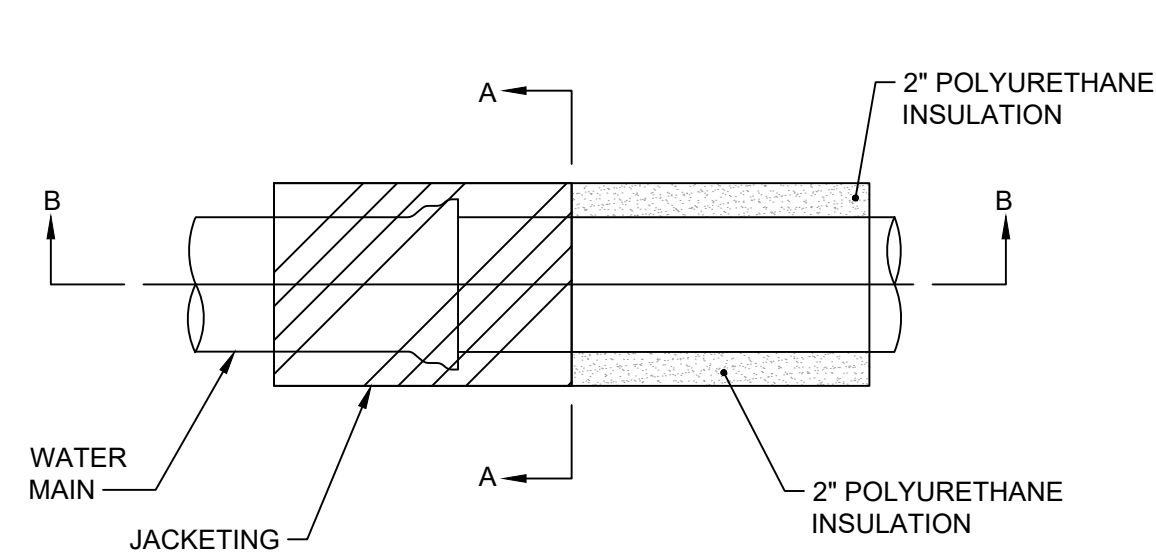
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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C	CIVIL	SHEET
DROP SHAFT 213 CONSOLIDATION CONDUIT		C-27
CIVIL DETAILS - WATER III		195130227

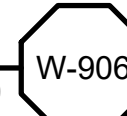


NOTES:

1. CLOSED CELL POLYURETHANE INSULATION SHALL BE AS MANUFACTURED BY TRICON PIPING SYSTEMS, OR APPROVED EQUAL
2. ALL INSULATED WATER MAIN SHALL BE COVERED AND SECURED IN PLACE WITH A PROTECTIVE EXTERIOR CASING (JACKETING), APPROVED FOR USE WITHIN THE INTENDED APPLICATION.

INSULATED WATER MAIN
NOT TO SCALE

REV 000000



REV	DATE	BY	DESCRIPTION

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	C. CRONIN
DRAWN	C. MARSHALL
CHECKED	J. D'ALELIO

90% DESIGN PHASE - APRIL 2021

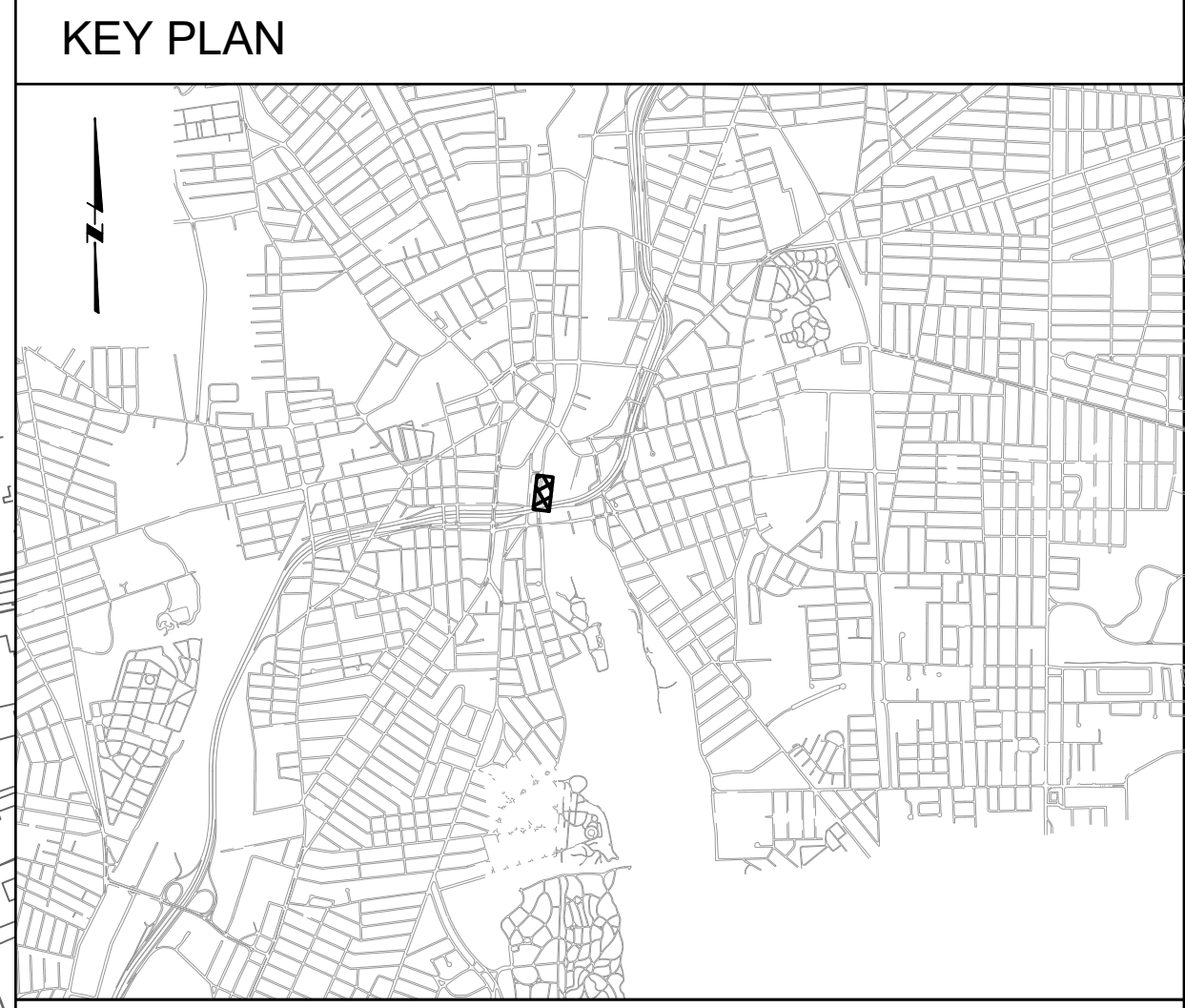
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NBC CONTRACT NO 308.04C
CIVIL

DROP SHAFT 213 CONSOLIDATION CONDUIT
CIVIL DETAILS - WATER IV



GENERAL SHEET NOTES

1. DETOUR ON THIS SHEET SHALL ONLY BE IMPLEMENTED FOR CLOSURE OF TAFT STREET BETWEEN JENKS WAY AND SPENCER STREET.

SHEET KEYNOTES

○

LEGEND

--- DETOUR ROUTE

CONSTRUCTION ENERGY SYSTEMS, INC.
 8000 STATE STREET, SUITE 200
 (207) 942-1000 ext. 308
 KAPPA Mapping, Inc. is now part of Construction Energy Systems, Inc.

USGS and imagery were provided by GEBCO
 Mapping is for the State of Rhode Island for use and distribution
 for the Department of Transportation for navigation purposes. Please see
 the Department of Transportation website for more information.

Construction Energy Systems, Inc. has reviewed the 2018 aerial imagery of the project
 area and has determined that the imagery is current and accurate. The
 information shown on this drawing is based on the 2018 aerial imagery and
 is not intended to be used for any other purpose. Construction Energy
 Systems, Inc. is not responsible for any errors or omissions on this drawing
 and does not warrant the accuracy or completeness of the information
 shown on this drawing. Construction Energy Systems, Inc. is not
 responsible for any errors or omissions on this drawing and does not
 warrant the accuracy or completeness of the information shown on this
 drawing.

In addition, we performed the following services:
 - Review of all data files and mapping design to meet
 - All data and drawings
 - Reproduction of all drawings using AutoCAD and manually edited LISP
 - All drawings are printed on 24" x 36" paper using AutoCAD DWG Plot and LISP DWT 30
 - All drawings are printed on 24" x 36" paper using AutoCAD DWG Plot and LISP DWT 30

Reference to "Utility Collection Methodology" documents attached with mapping files and
 dated 05/11/2018 for additional information.

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Traffic Management\TMP 1.dwg
 PLOT DATE: Thursday, May 20, 2021 1:34:33 PM
 BY: JAMIE PAYNE

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE: NO SCALE

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: H. PERALTA
 DRAWN: T. JOUBERT
 CHECKED: J. D'ALELIO

60% DESIGN PHASE - JULY 2021

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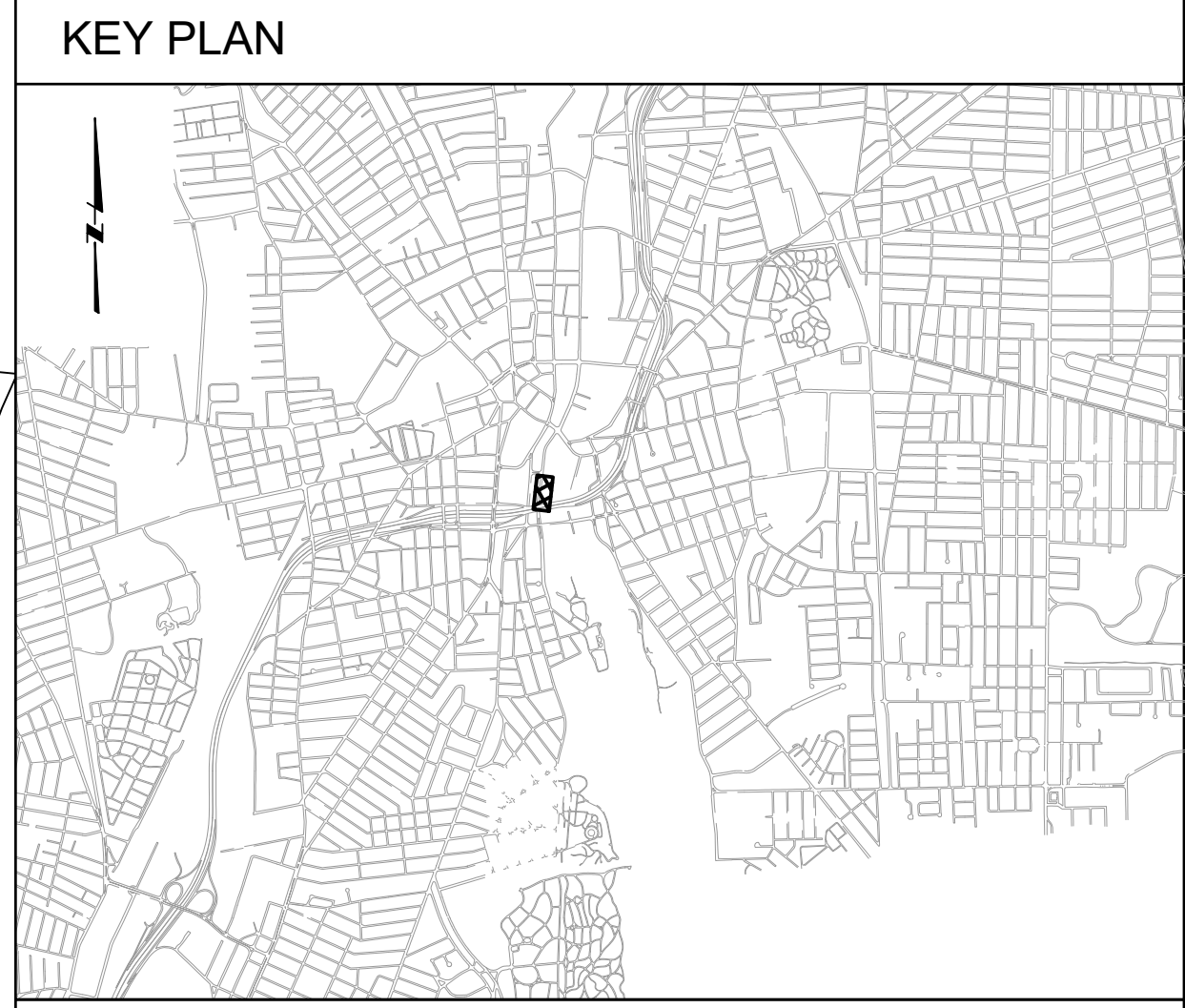
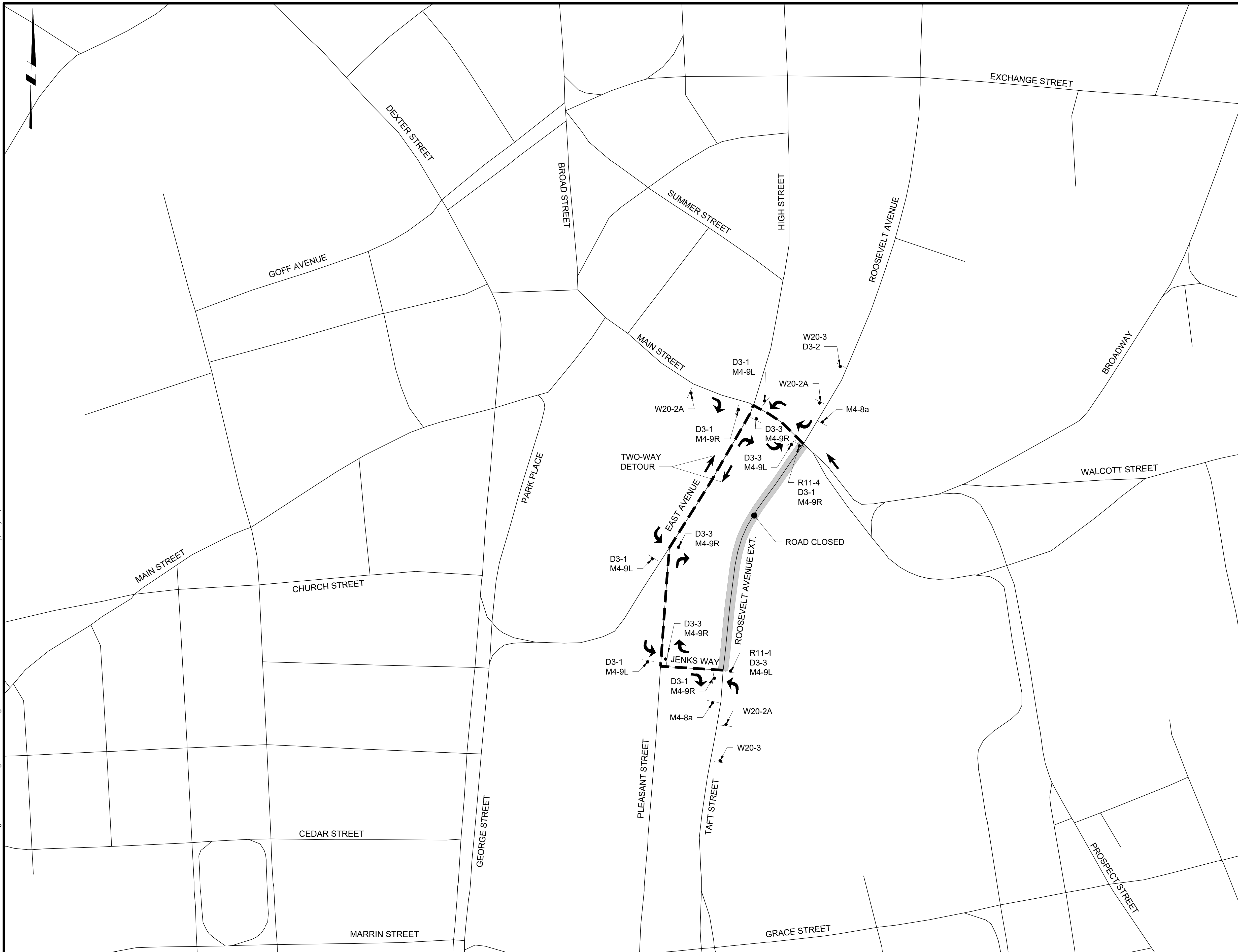
NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER
 OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
 CIVIL

OF 210/213/214 FACILITIES
 TEMPORARY TRAFFIC CONTROL PLAN

SHEET T-1
 195130227

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Traffic Management\TMP 2.dwg
 PLOT DATE: Thursday, May 20, 2021 1:34:44 PM
 BY: JAIMIE PAYNE



GENERAL SHEET NOTES

1. DETOUR ON THIS SHEET SHALL ONLY BE IMPLEMENTED FOR CLOSURE OF ROOSEVELT AVENUE EXTENSION BETWEEN MAIN STREET AND JENKS WAY.

SHEET KEYNOTES

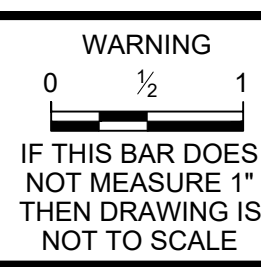
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LEGEND

--- DETOUR ROUTE

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

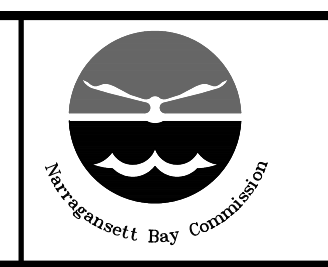
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DESIGNED H. PERALTA
 DRAWN T. JOUBERT
 CHECKED J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

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NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER
 OVERFLOW PROGRAM

Stantec **PARE**

NBC CONTRACT NO 308.04C
 CIVIL

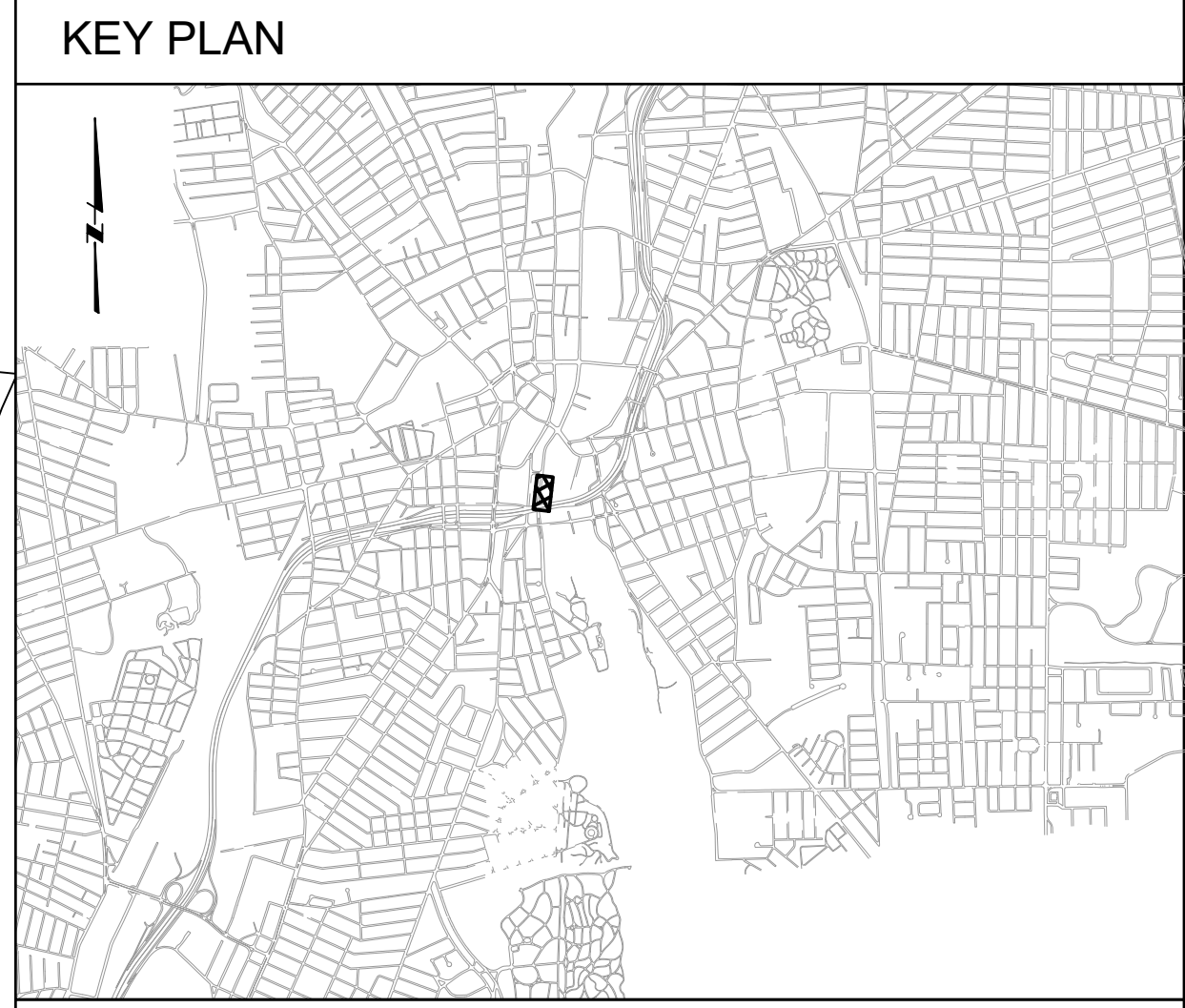
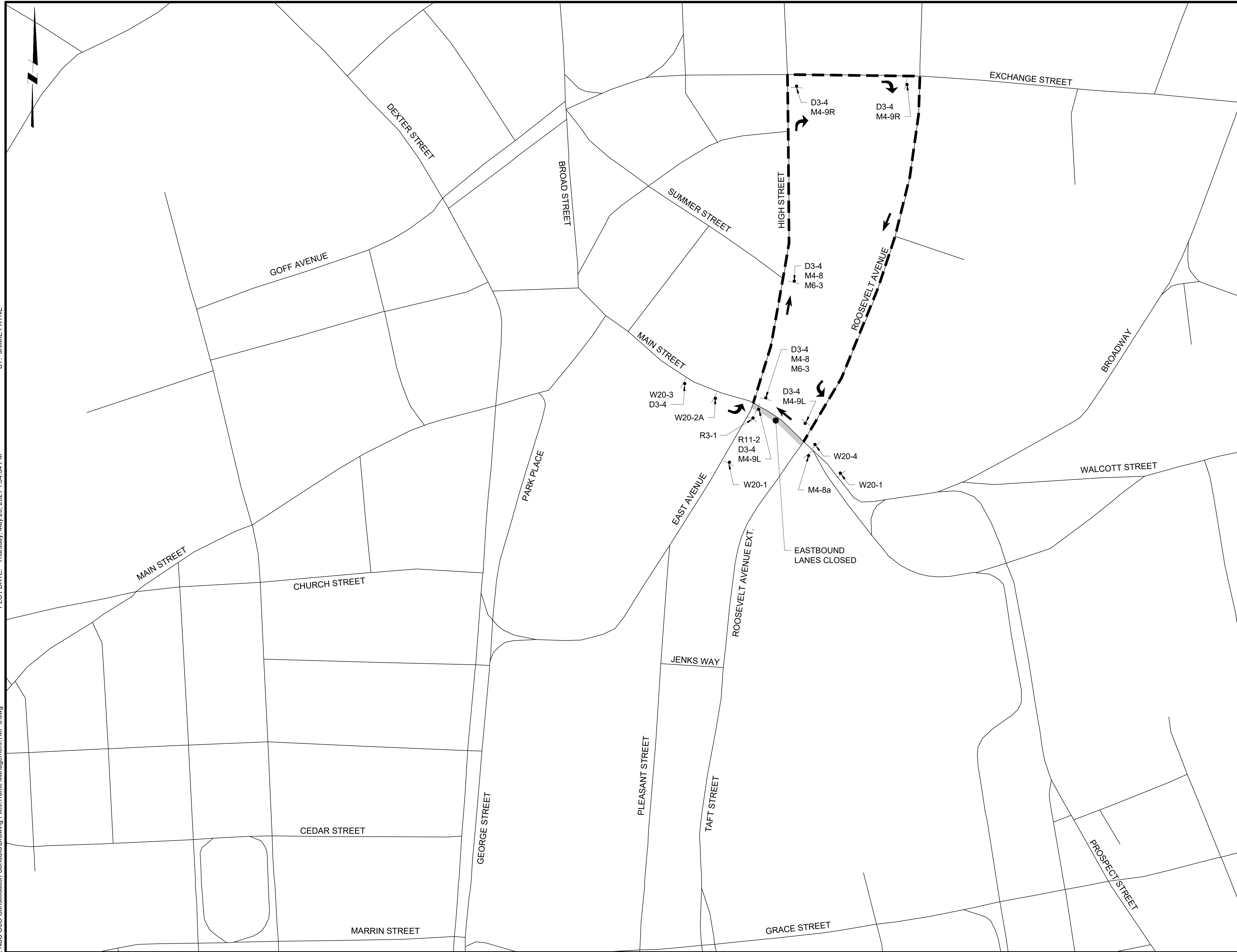
OF 210/213/214 FACILITIES
 TRAFFIC MANAGEMENT PLAN II

SHEET
T-2
 195130227

BY: JAIMIE PAYNE

PLOT DATE: Thursday, May 20, 2021 1:34:54 PM

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Traffic Management\TMP_3.dwg



- GENERAL SHEET NOTES**
1. DETOUR ON THIS SHEET SHALL ONLY BE IMPLEMENTED FOR CLOSURE OF THE MAIN STREET EASTBOUND LANE BETWEEN EAST AVENUE AND ROOSEVELT AVENUE WHILE ALLOWING ONE-LANE MAIN STREET WESTBOUND TRAFFIC ALONG THIS SECTION OF MAIN STREET.
 2. THE TRAFFIC SIGNAL AT THE INTERSECTION OF MAIN STREET WITH ROOSEVELT AVENUE SHALL BE MODIFIED TO TEMPORARILY OMIT THE EASTBOUND SIGNAL PHASE DURING THE MAIN STREET EASTBOUND APPROACH CLOSURE.

SHEET KEYNOTES

○

LEGEND

--- DETOUR ROUTE

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

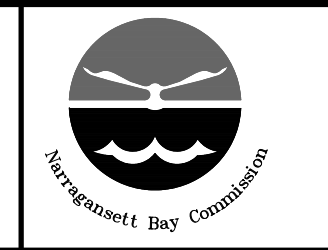
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WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED H. PERALTA
DRAWN T. JOUBERT
CHECKED J. D'ALESSIO

60% DESIGN PHASE - JULY 2021

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec PARE

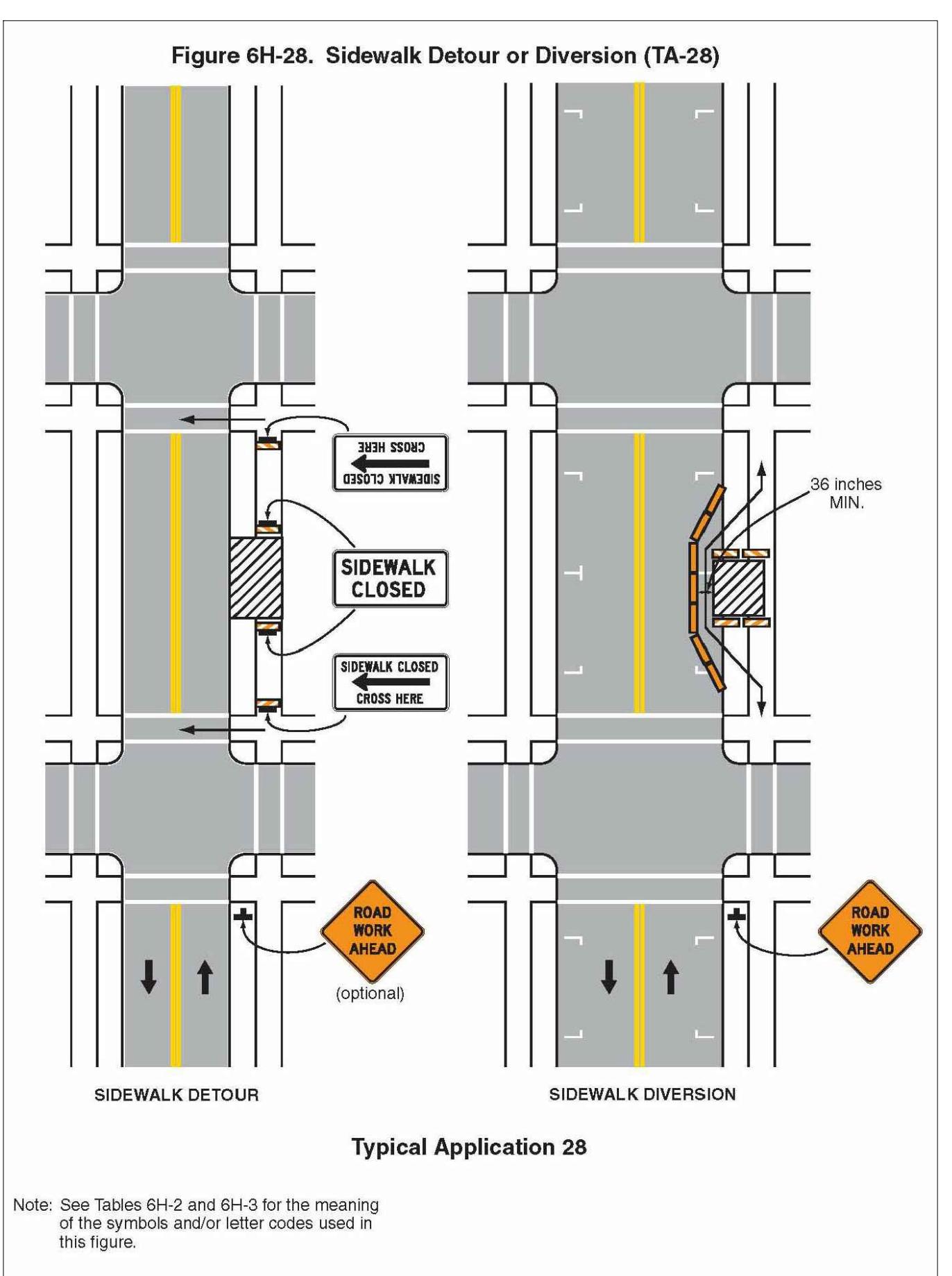
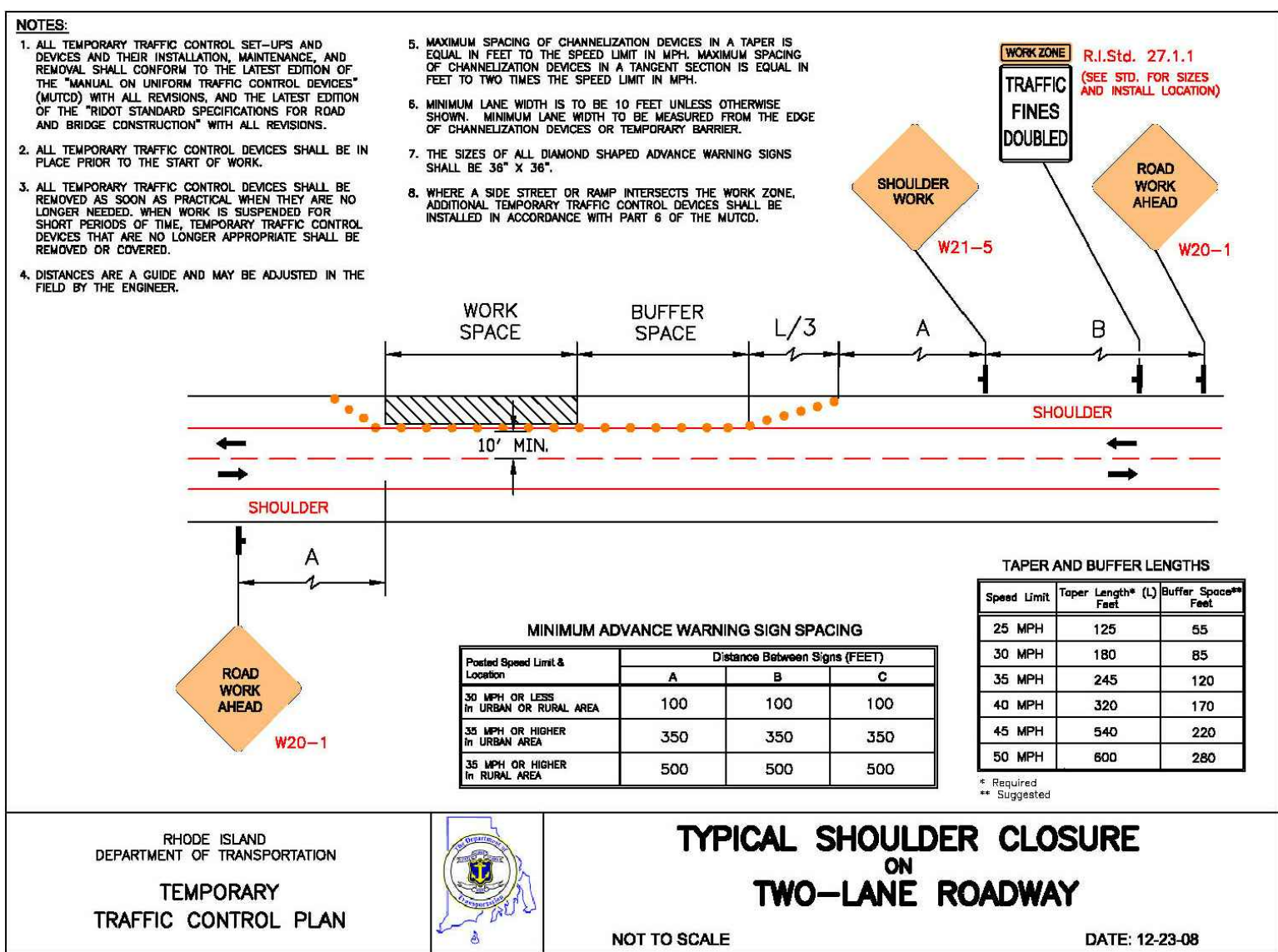
NBC CONTRACT NO 308.04C
CIVIL

OF 210/213/214 FACILITIES
TRAFFIC MANAGEMENT PLAN III

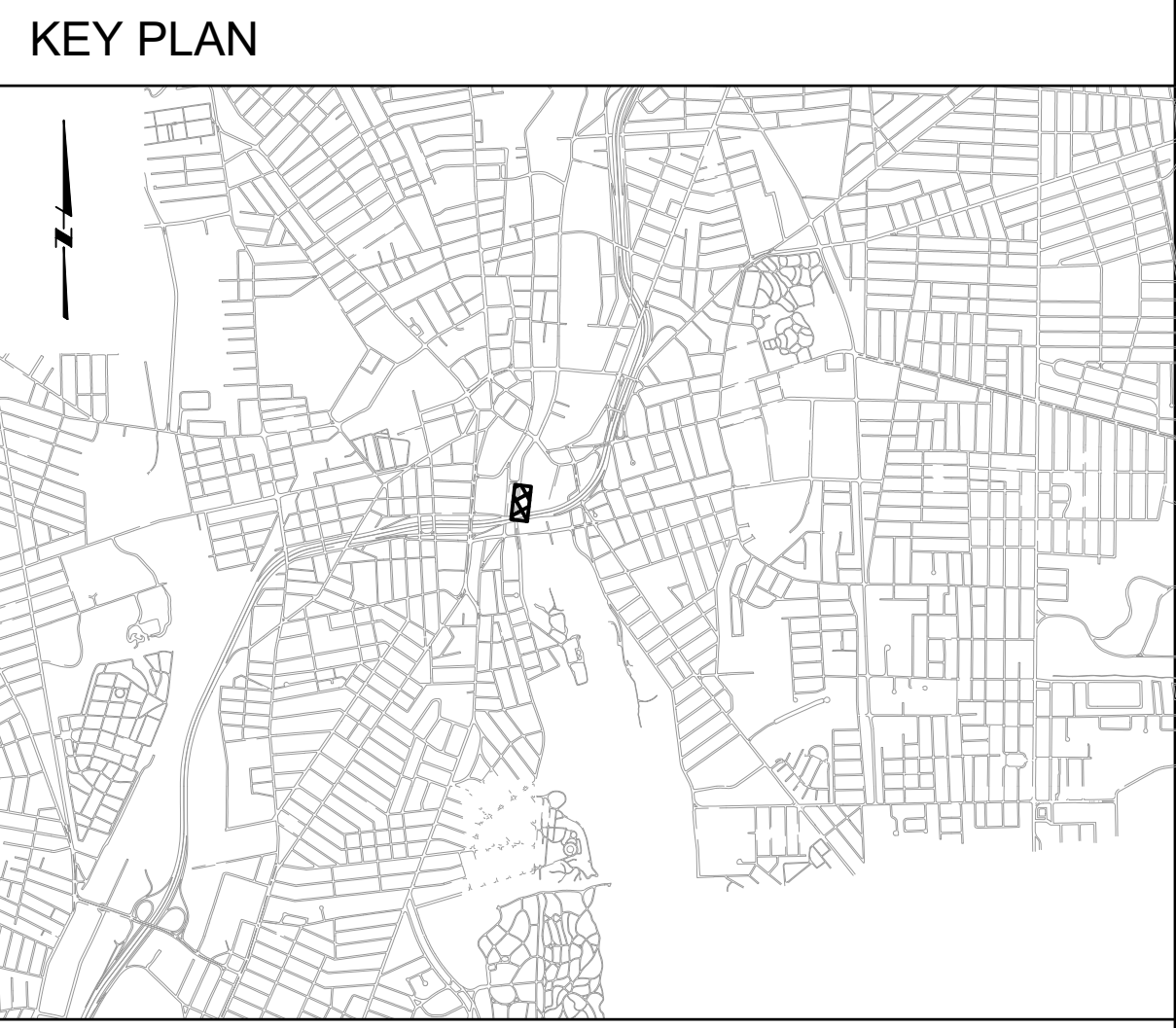
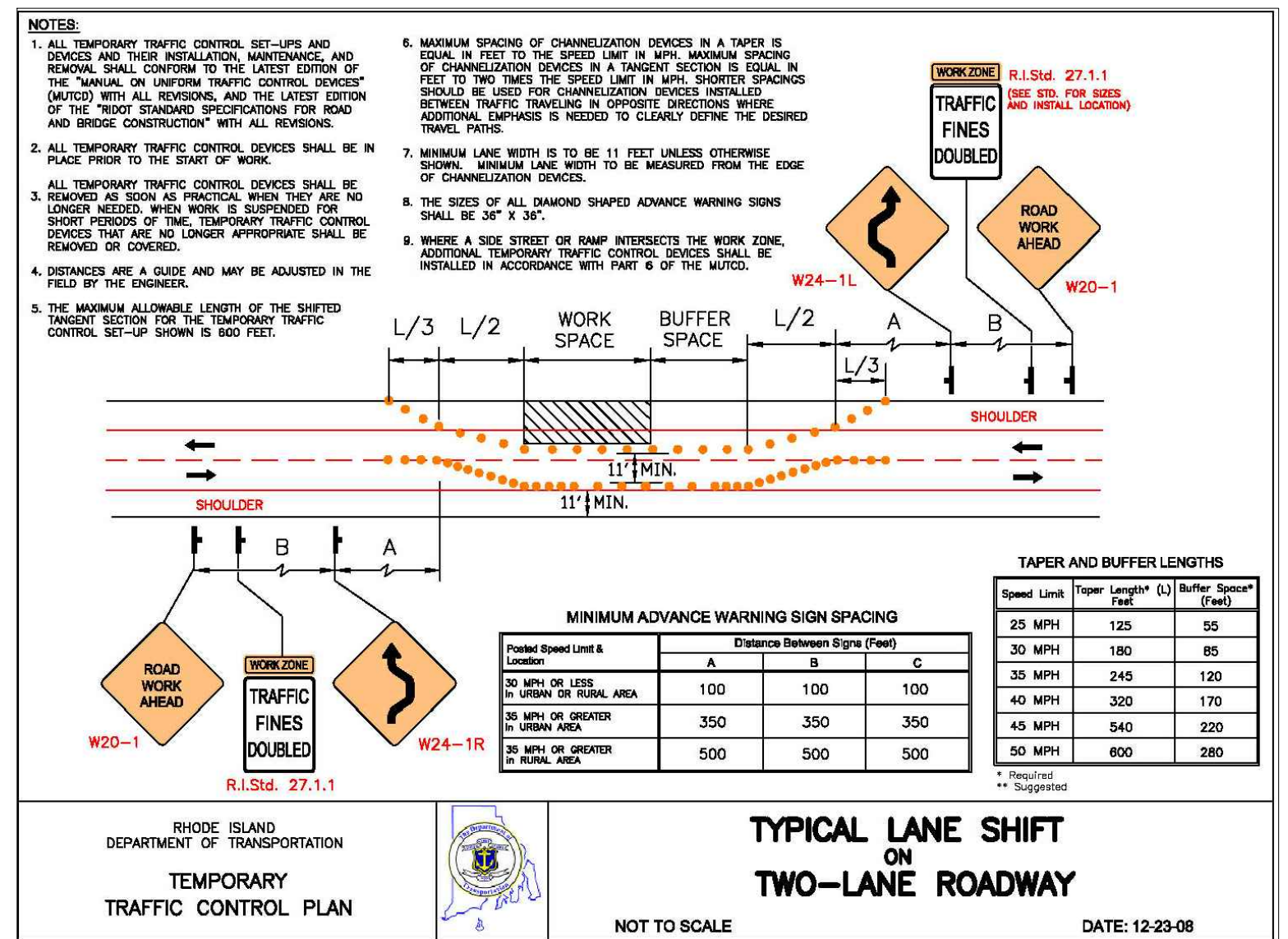
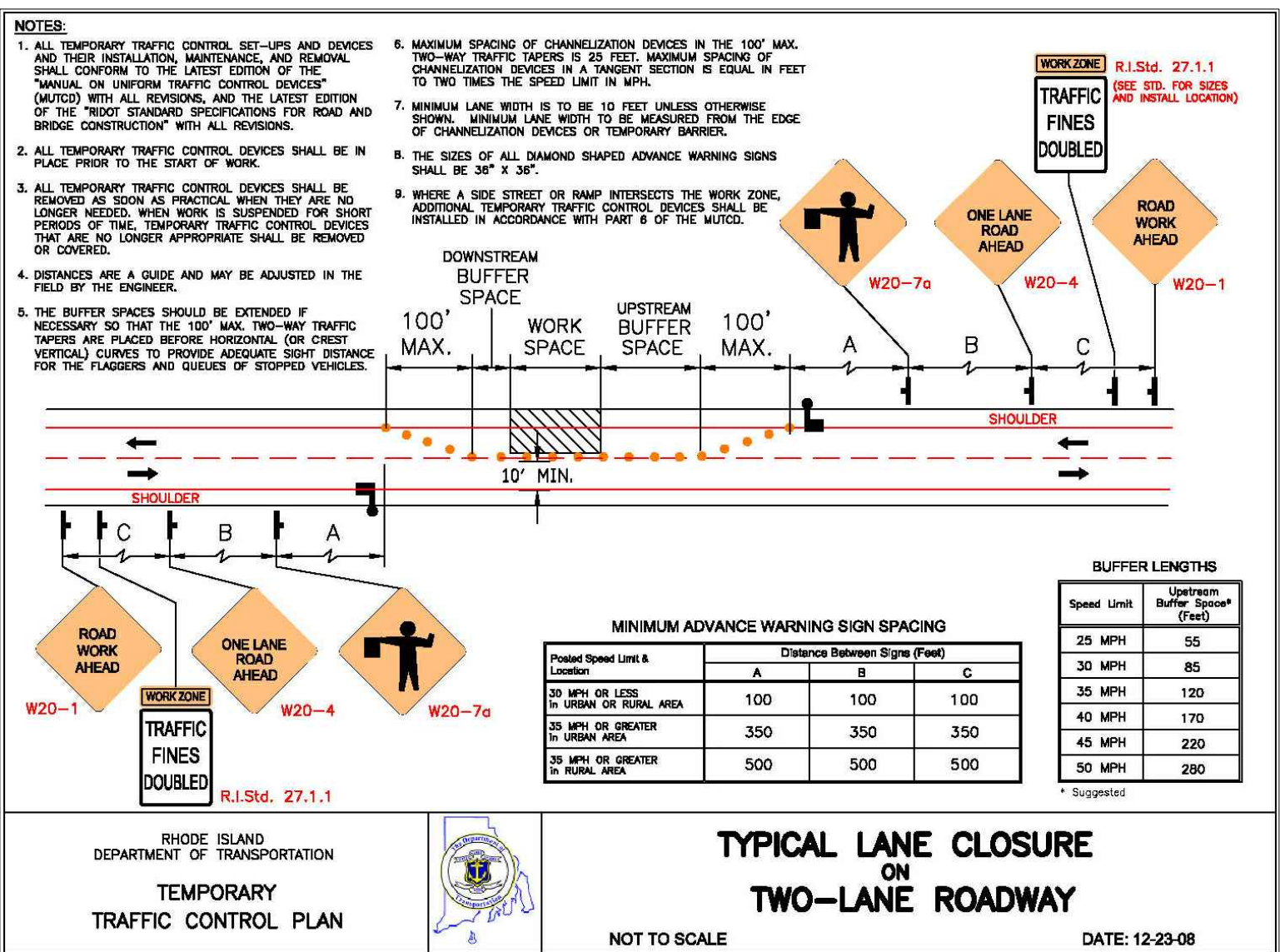
SHEET
T-3
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DETOUR SIGN LEGEND

SIGN	DIMENSIONS	QUANTITY	
	M4-8a	30 in. x 15 in.	2
	M4-8	24 in. x 12 in.	2
	M4-9L	30 in. x 24 in.	4
	M4-9R	30 in. x 24 in.	4
	M6-3	21 in. x 15 in.	2
	R3-1	24 in. x 24 in.	1
	R11-2	48 in. x 30 in.	1
	R11-4	60 in. x 30 in.	2
	W20-1	36 in. x 36 in.	1
	W20-2A	36 in. x 36 in.	2
	W20-3	36 in. x 36 in.	2
	W20-4	36 in. x 36 in.	1
	D3-1	30 in x 12 in.	6
	D3-2	30 in x 12 in.	5
	D3-3	30 in x 12 in.	5
	D3-4	30 in x 12 in.	7



- TEMPORARY TRAFFIC CONTROL GENERAL NOTES:**
- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T STANDARD SPECIFICATIONS, LATEST EDITION.
 - THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
 - ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLAQUE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
 - POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
 - POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
 - ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
 - TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND/OR RELOCATED UNDER THE APPROPRIATE PAY ITEM.
 - THE PRIVATE VEHICLE OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE AND/OR CITY RIGHT-OF-WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
 - TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
 - THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.
 - THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE TEMPORARY INTERFERENCE WITH OR CLOSURE OF ACCESS.
 - ONE SIDEWALK SHALL REMAIN OPEN AT ALL TIMES ALONG ROOSEVELT AVENUE EXTENSION AND TAFT STREET.



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 PLOT DATE: Thursday, May 20, 2021 1:35:05 PM
 BY: JAIMIE PAYNE

REV	DATE	BY	DESCRIPTION

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NO SCALE	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	H. PERALTA	NOT FOR CONSTRUCTION
		T. JOUBERT	This document is an interim document and not suitable for construction. As an interim document, it may contain data that is potentially inaccurate or incomplete and is not to be relied upon without the express written consent of the preparer.
		J. D'ALELIO	

NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER OVERFLOW PROGRAM

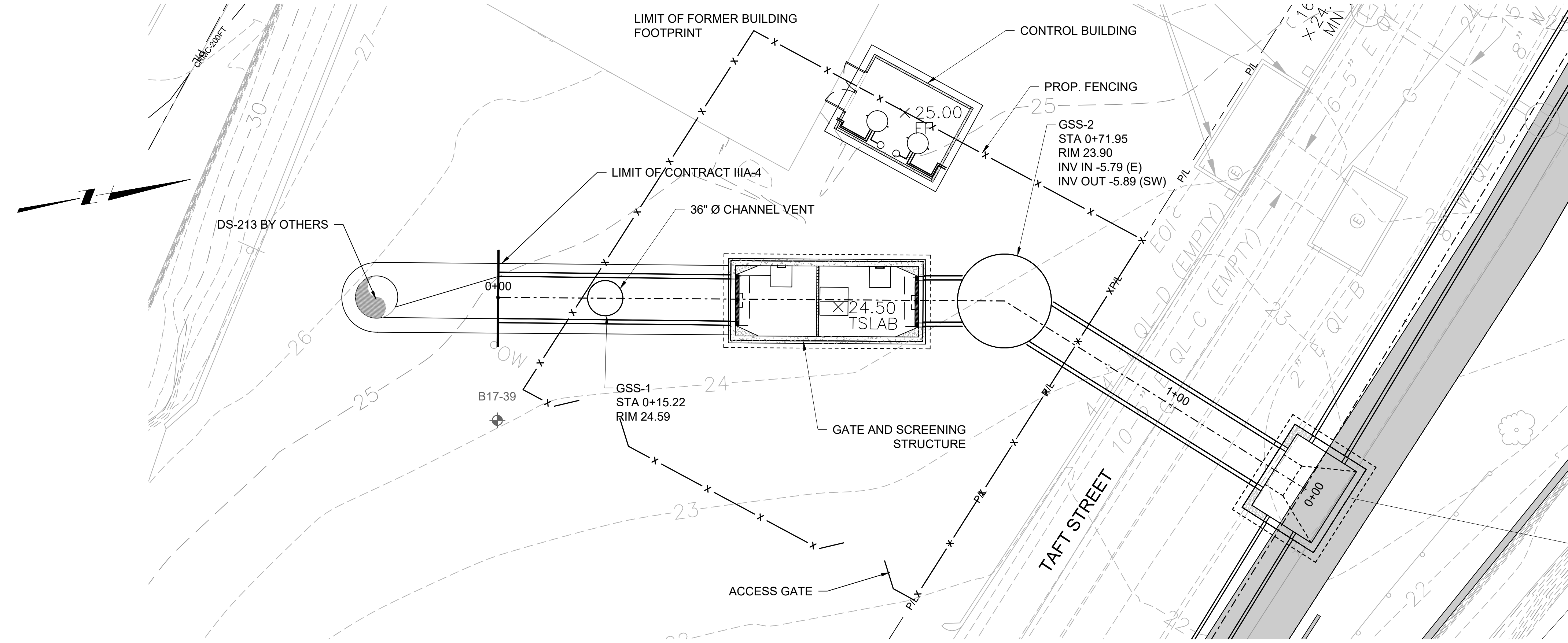
NBC CONTRACT NO 308.04C
 CIVIL
 OF 210/213/214 FACILITIES
 TEMPORARY TRAFFIC CONTROL DETAILS

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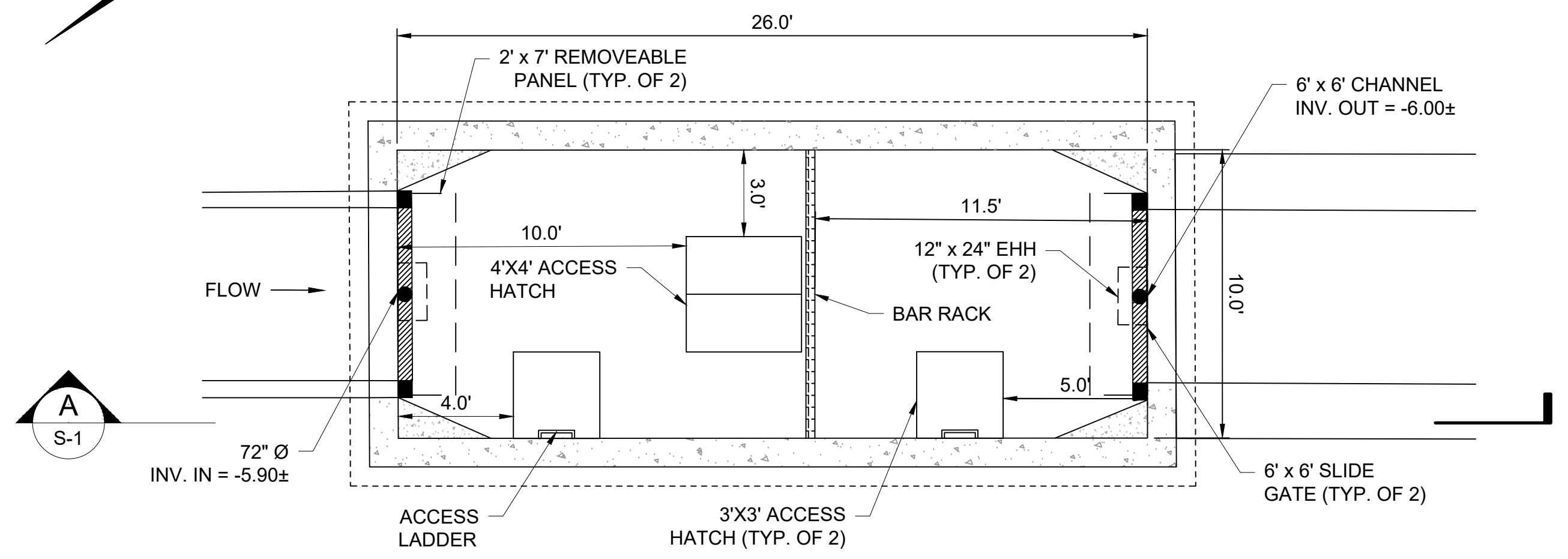
BY: JAMIE PAYNE

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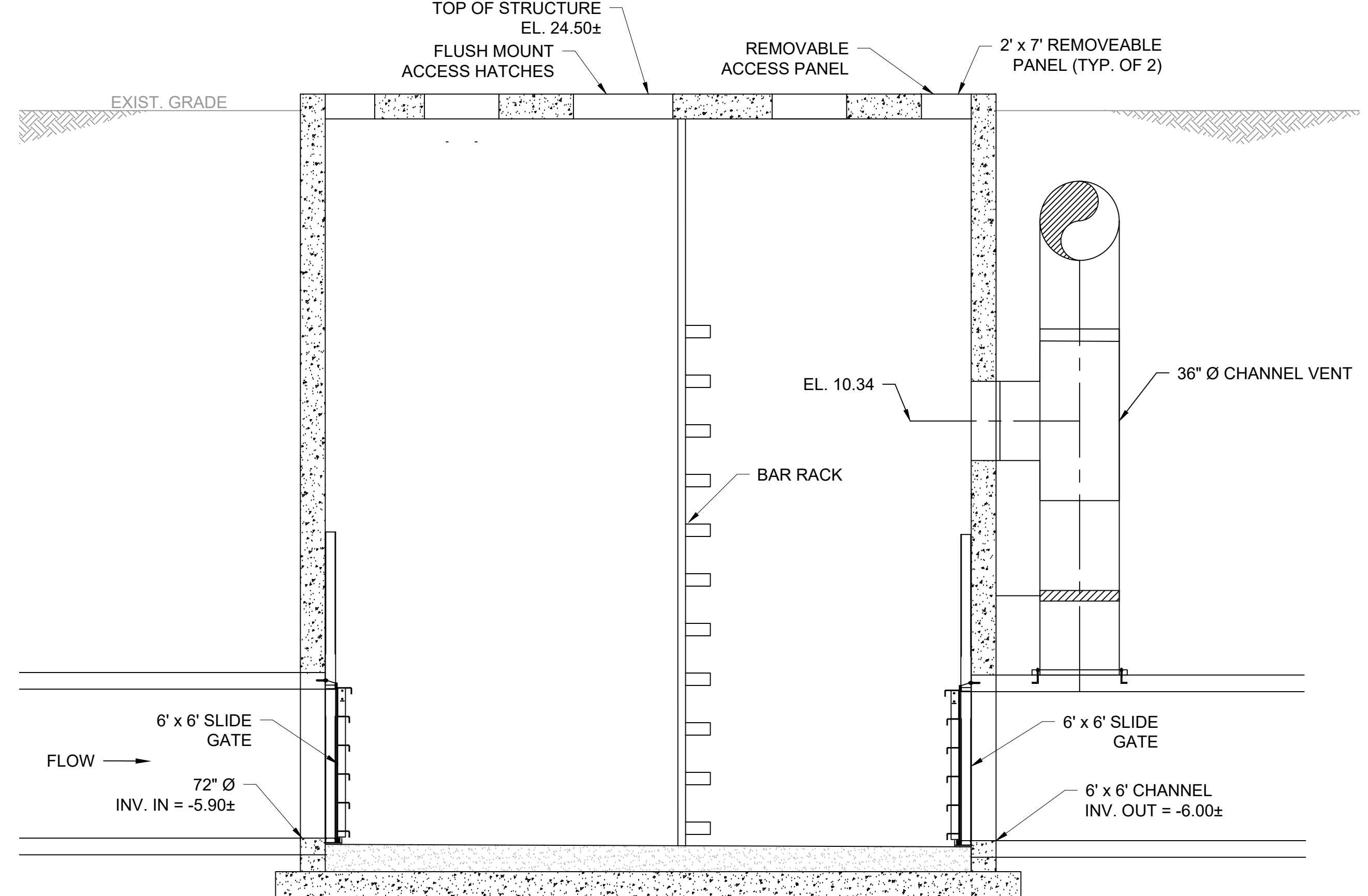
GENERAL SHEET NOTES
 1. VERTICAL DATUM FOR PROJECT IS NGVD29.



SITE PLAN VIEW
 SCALE: 1" = 10'



PLAN VIEW
 SCALE: 1/4" = 1'-0"



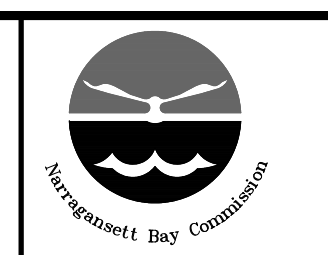
A SECTION
 S-1 SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN
 WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED: C. CRONIN
 DRAWN: J. PAYNE
 CHECKED: J. D'ALESSIO

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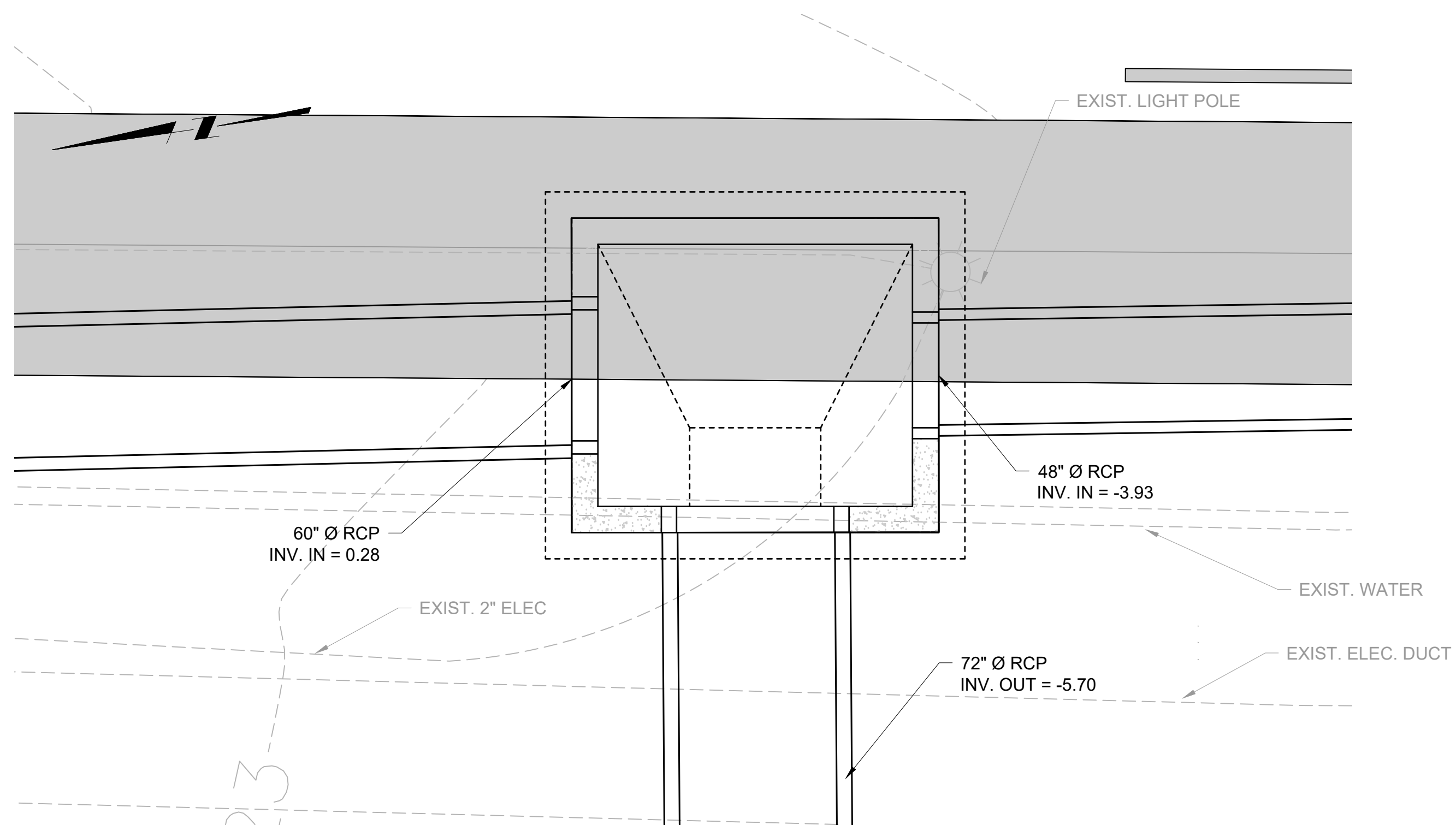
NARRAGANSETT BAY COMMISSION
 PHASE III COMBINED SEWER
 OVERFLOW PROGRAM
 Stantec logo

NBC CONTRACT NO 308.04C
 STRUCTURAL
 OF 210/213/214 FACILITIES
 GATE & SCREENING STRUCTURE
 PLAN AND SECTION

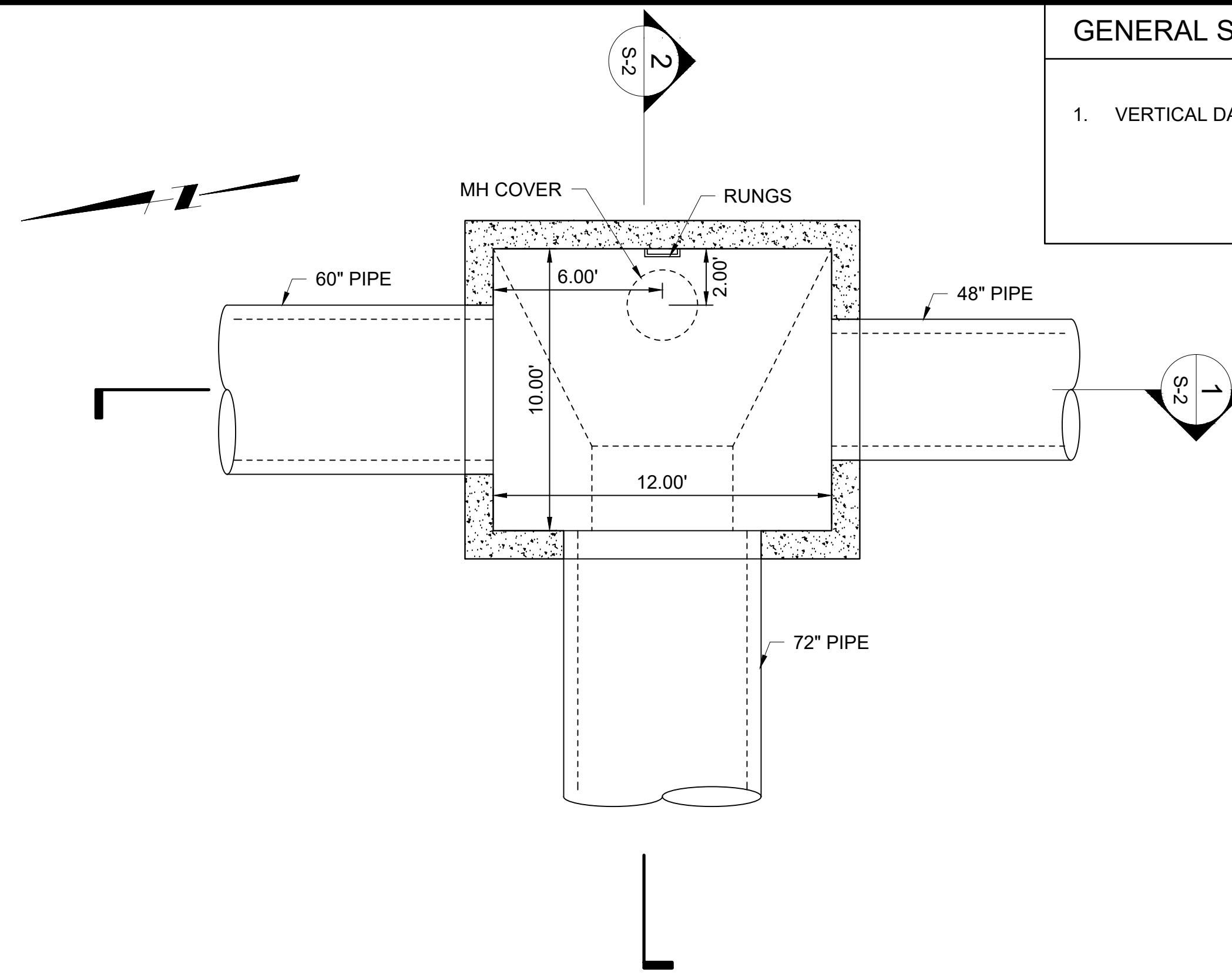
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 195130227

BY: JAMIE PAYNE

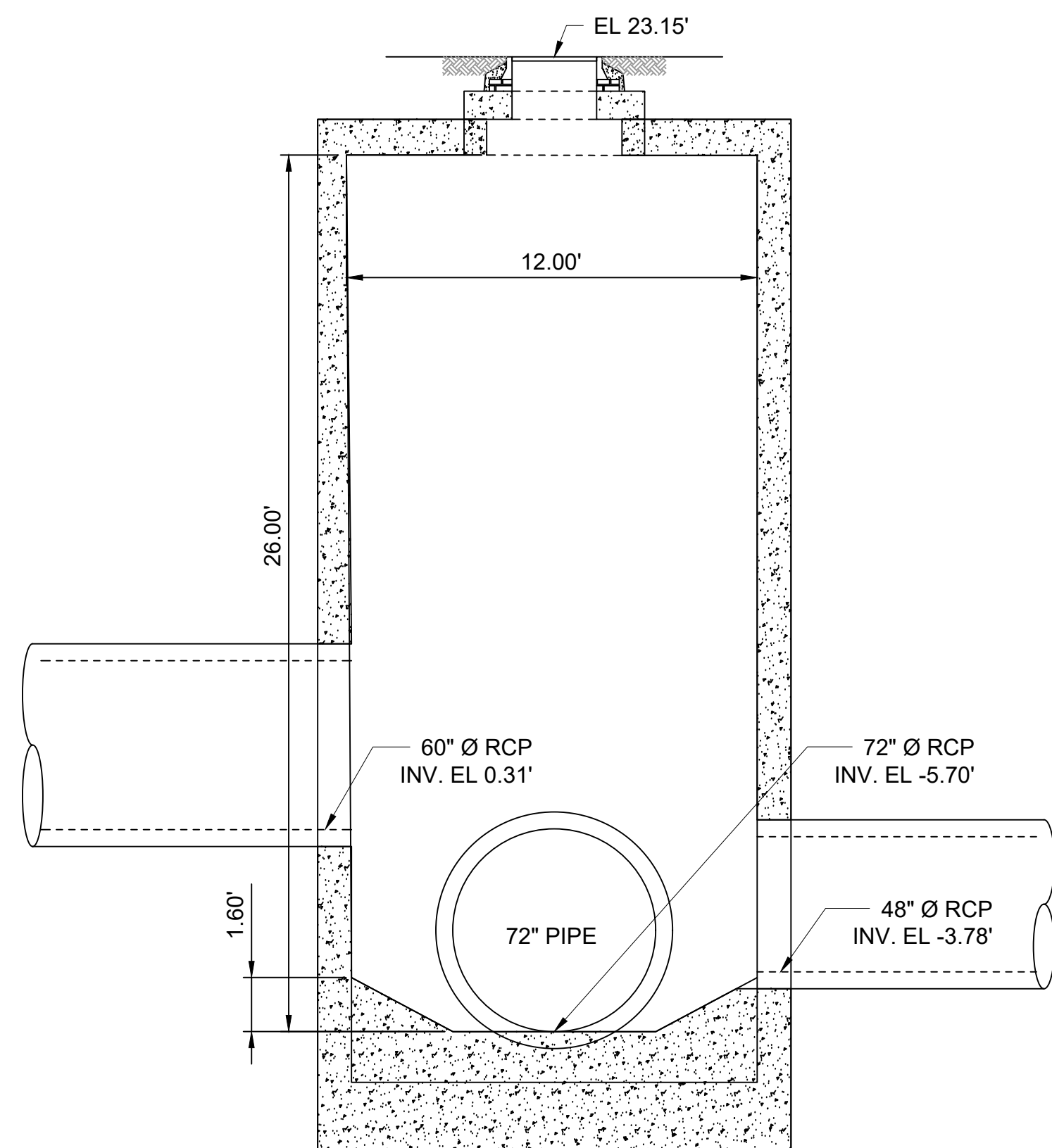
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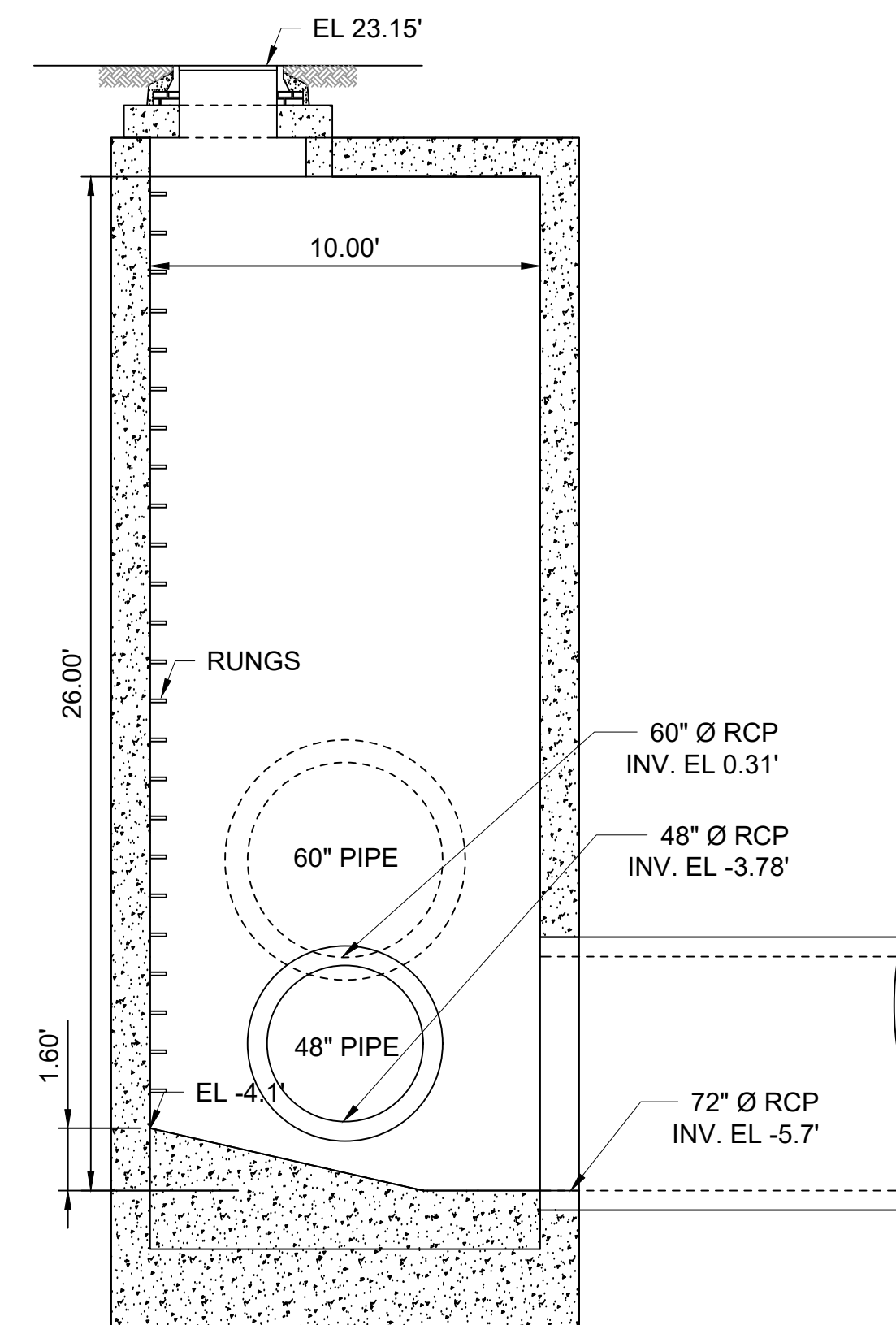
SITE PLAN VIEW
SCALE: 1" = 4'-0"



PLAN VIEW
SCALE: 1/4" = 1'-0"



1 SECTION
S-2 SCALE: 1/4" = 1'-0"



2 SECTION
S-2 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

1. VERTICAL DATUM FOR PROJECT IS NGVD29.

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE
1"=20'

WARNING
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DESIGNED C. CRONIN
DRAWN J. PAYNE
CHECKED J. D'ALESIO

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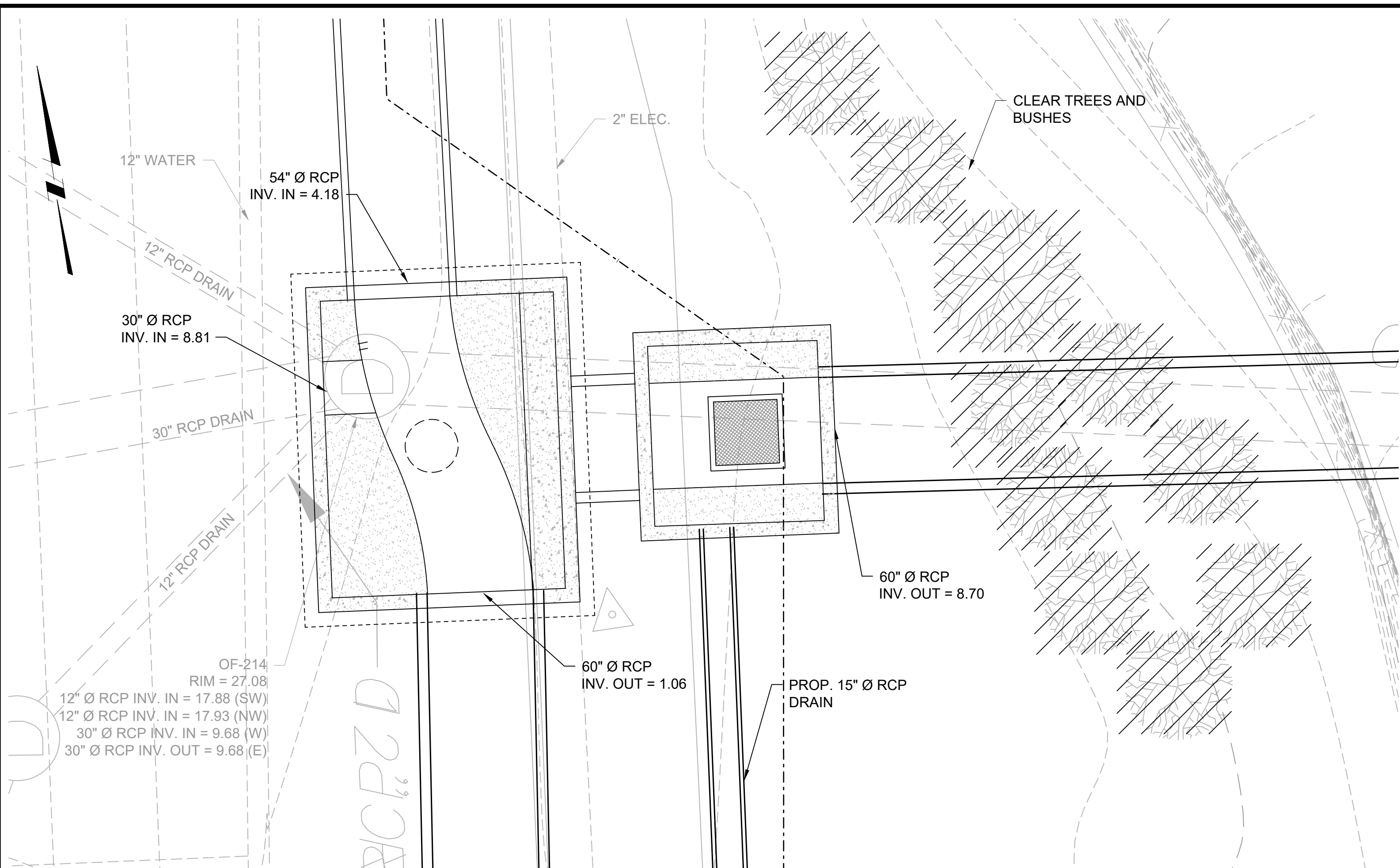
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM



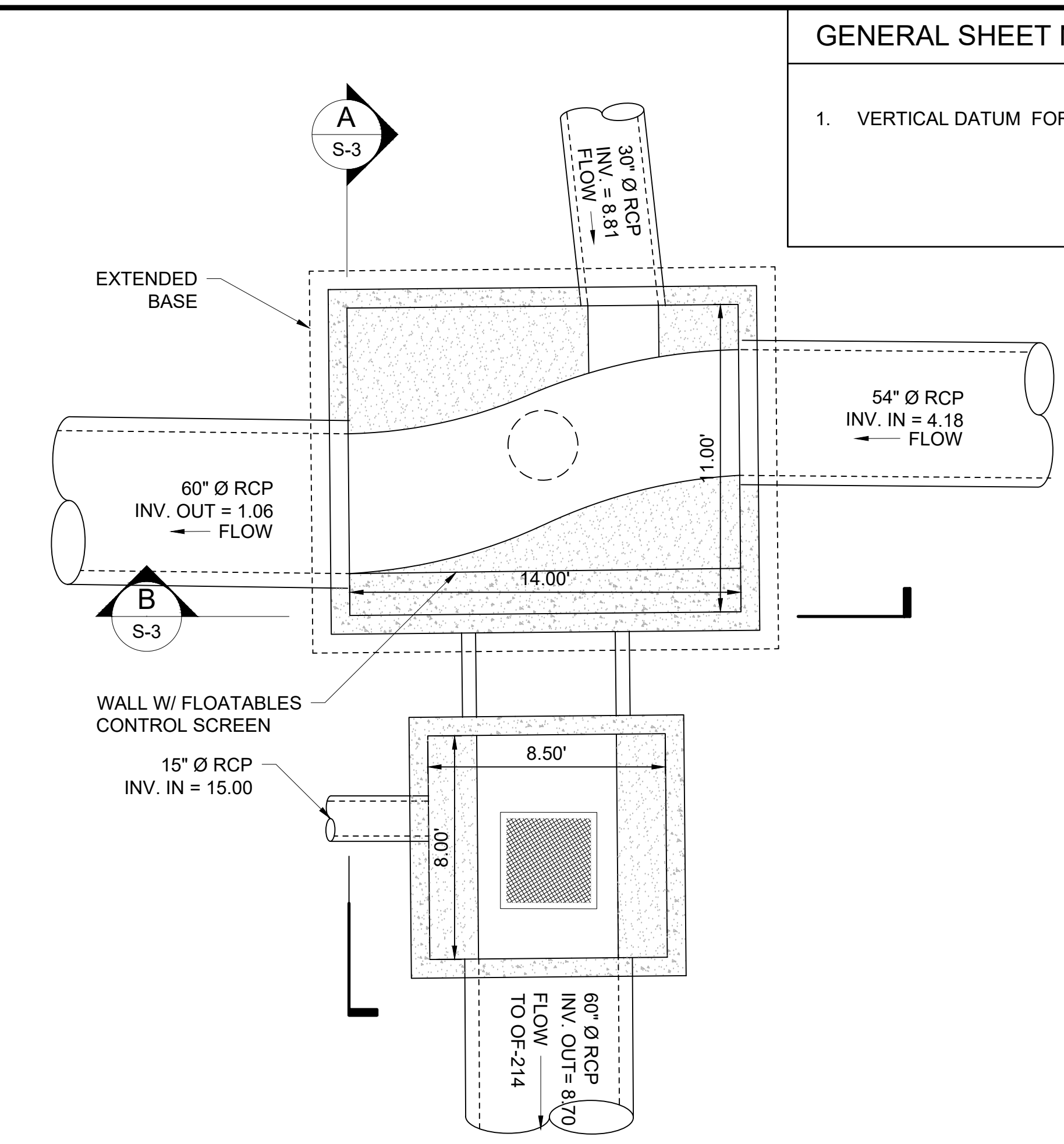
NBC CONTRACT NO 308.04C
STRUCTURAL
OF 210/213/214 FACILITIES
JUNCTION CHAMBER
PLAN AND SECTION

SHEET
S-2
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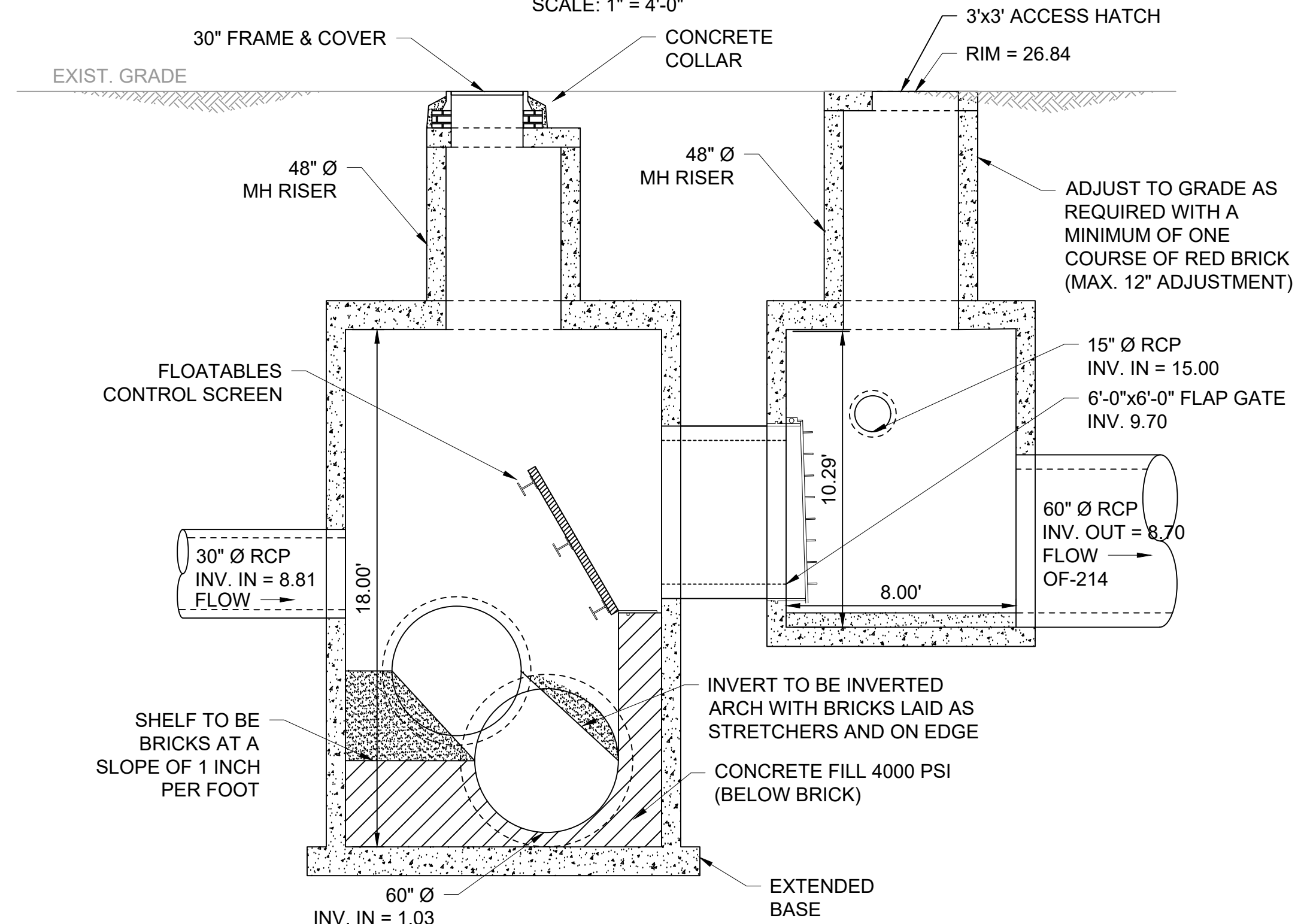
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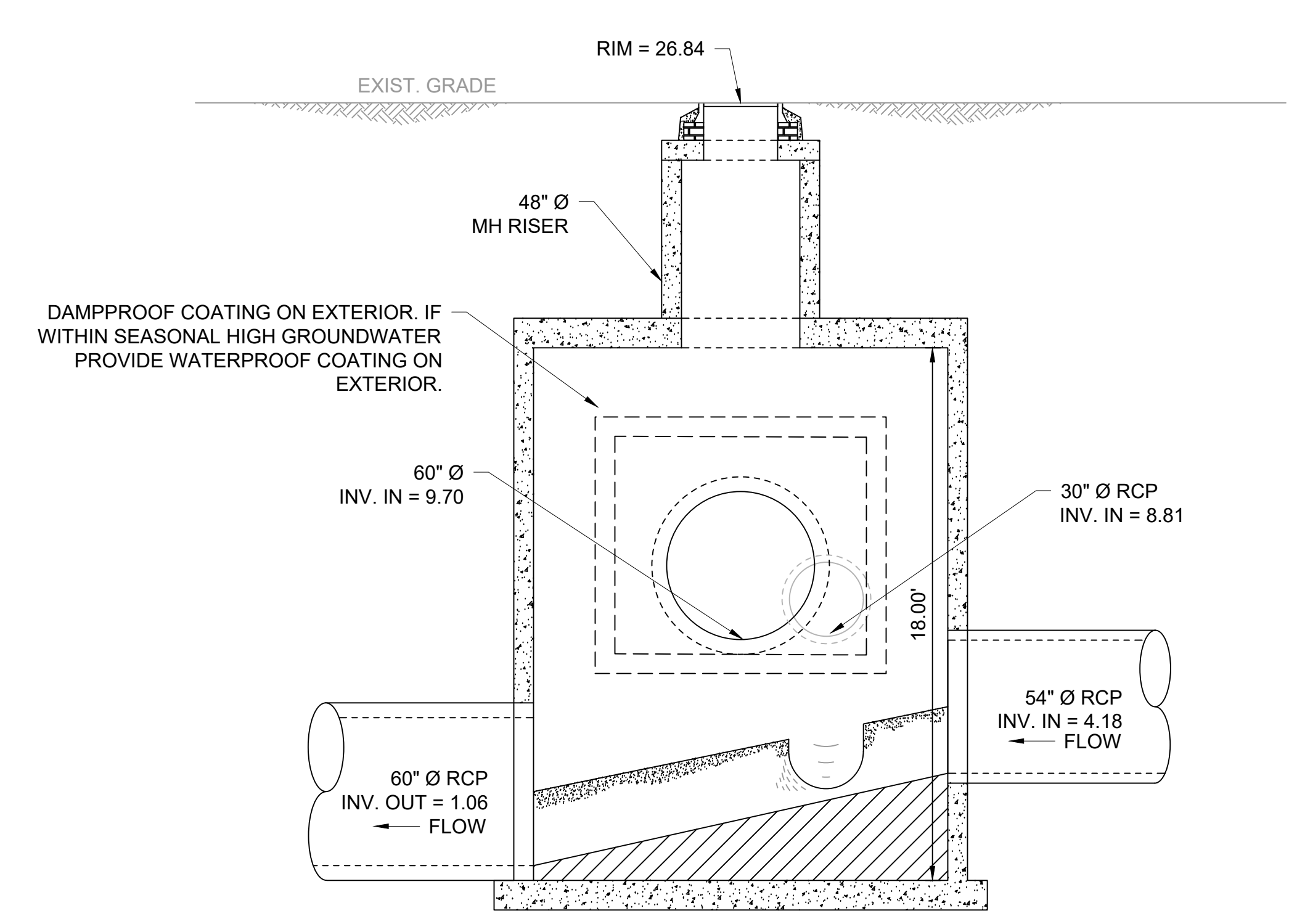
SITE PLAN VIEW
SCALE: 1" = 4'-0"



PLAN VIEW
SCALE: 1/4" = 1'-0"



A SECTION
S-3 SCALE: 1/4" = 1'-0"



B SECTION
S-3 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

- VERTICAL DATUM FOR PROJECT IS NGVD29.

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

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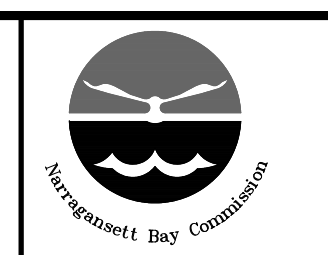
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DESIGNED: C. CRONIN
DRAWN: J. PAYNE
CHECKED: J. D'ALESSIO

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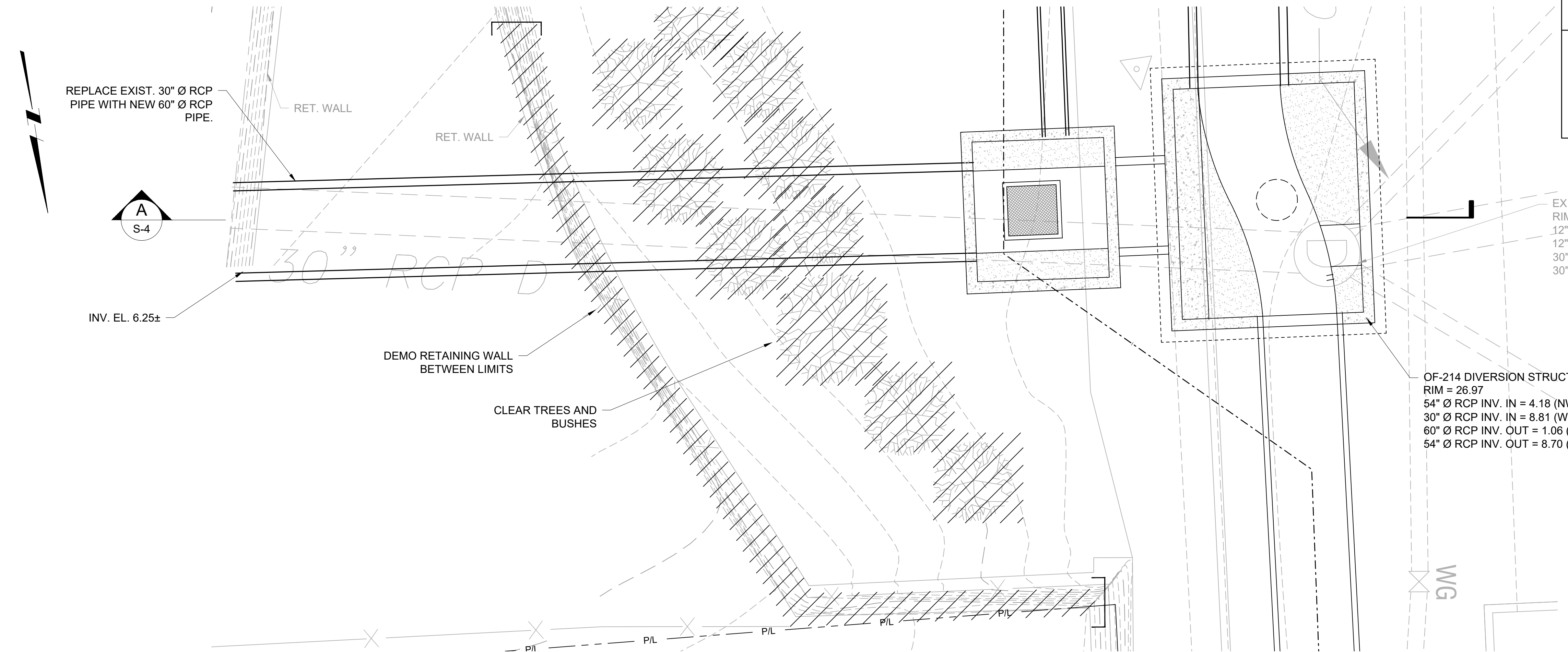
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
STRUCTURAL
OF 210/213/214 FACILITIES
OF-214 DIVERSION STRUCTURE
PLAN AND SECTION I

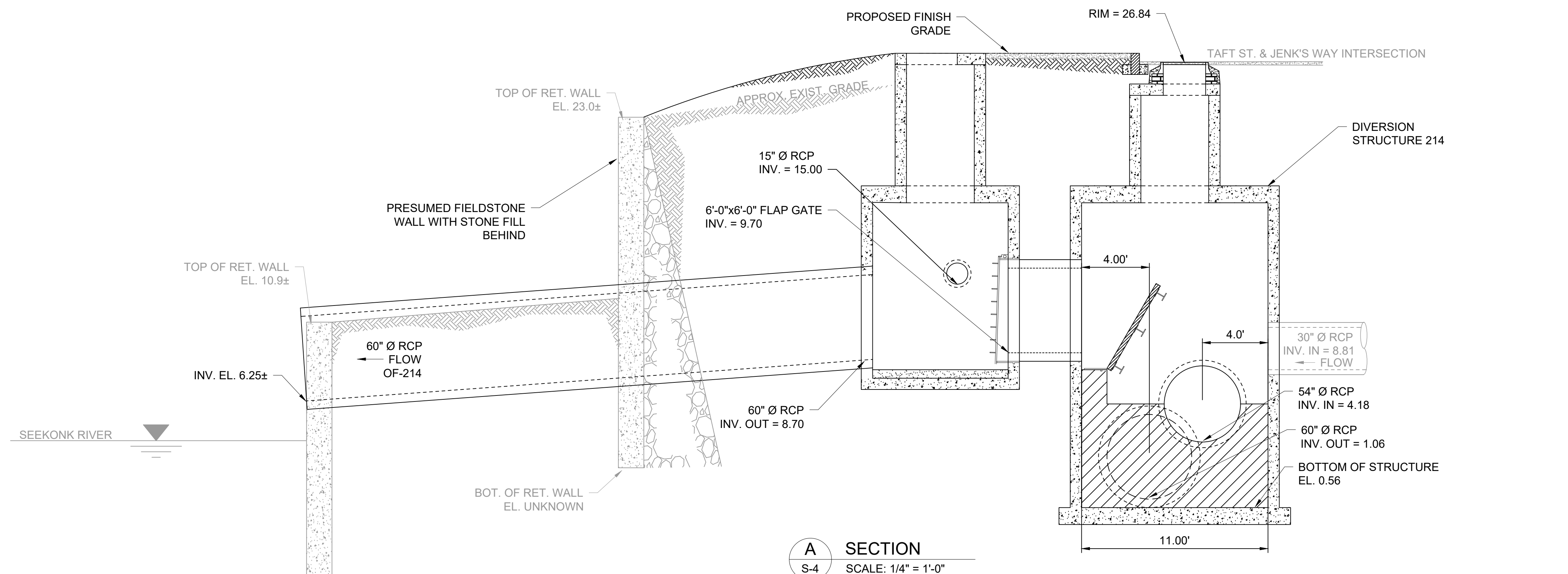
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GENERAL SHEET NOTES

1. VERTICAL DATUM FOR PROJECT IS NGVD29.



SITE PLAN VIEW
SCALE: 1" = 4'-0"



A SECTION
S-4 SCALE: 1/4" = 1'-0"

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REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE
AS SHOWN

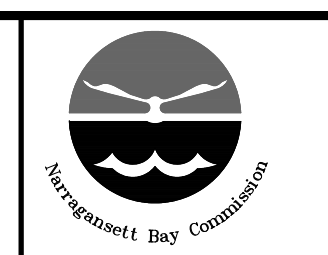
WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED C. CRONIN
DRAWN J. PAYNE
CHECKED J. D'ALELIO

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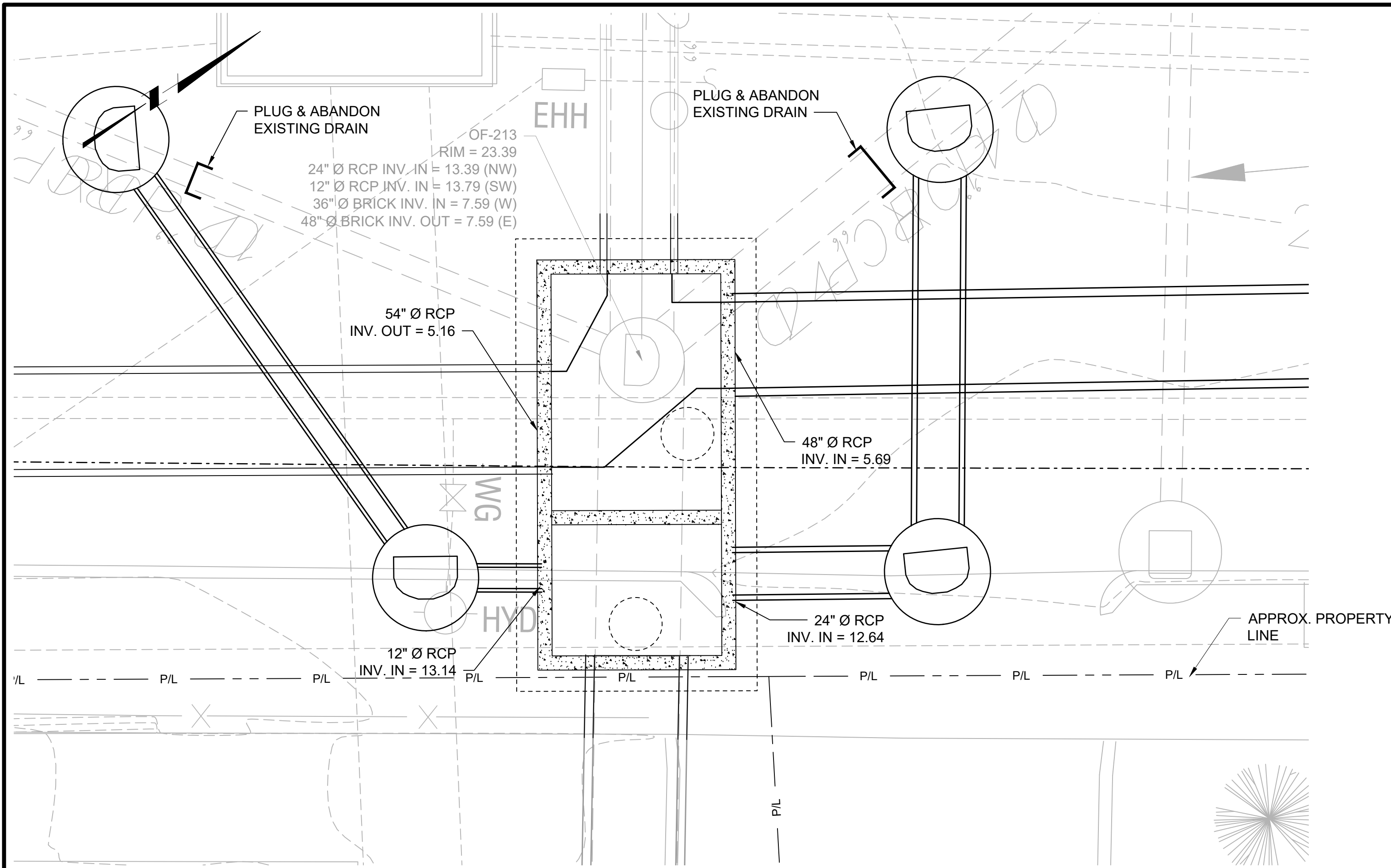
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
STRUCTURAL
OF 210/213/214 FACILITIES
OF-214 DIVERSION STRUCTURE
PLAN AND SECTION II

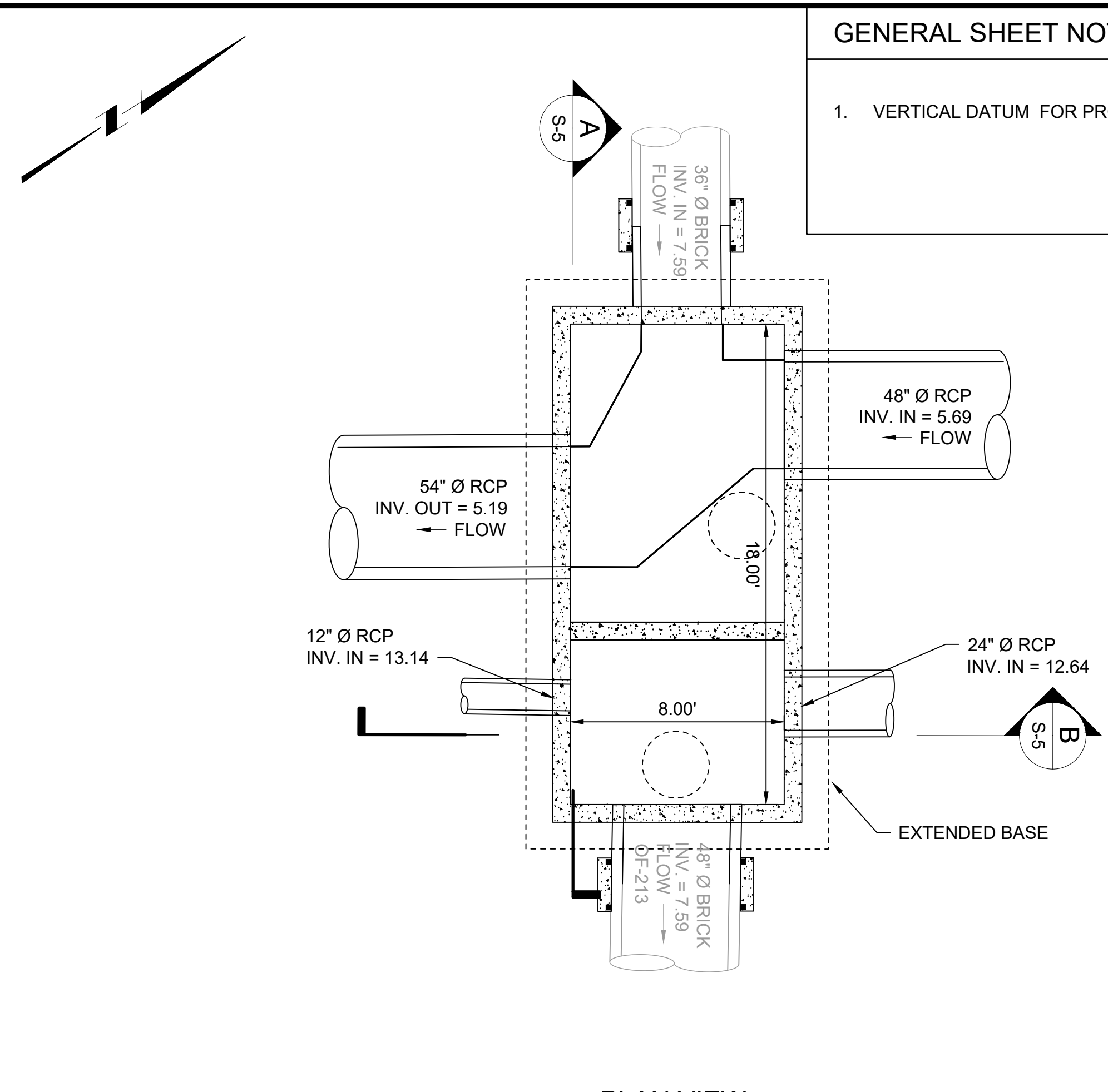
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BY: JAMIE PAYNE

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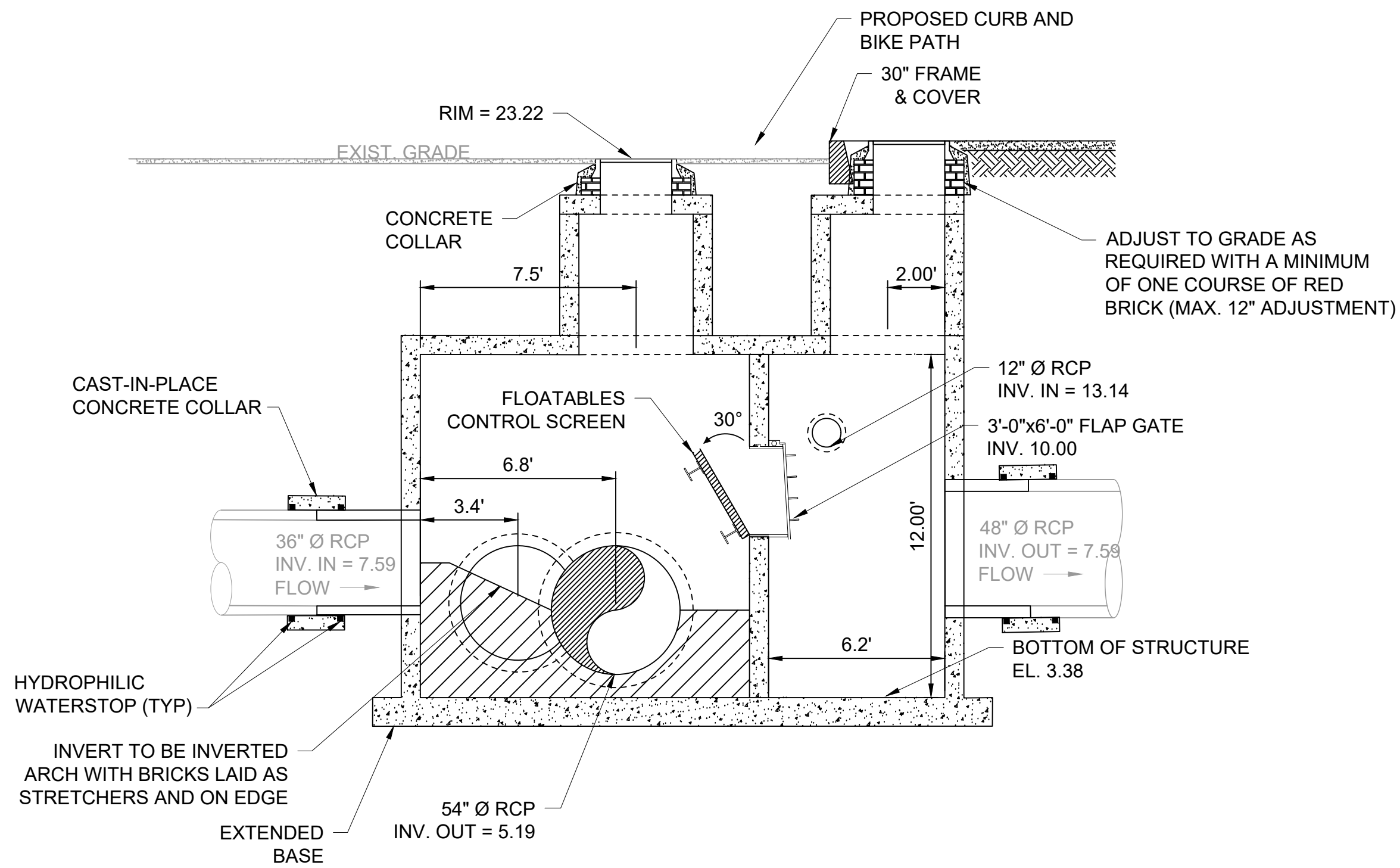
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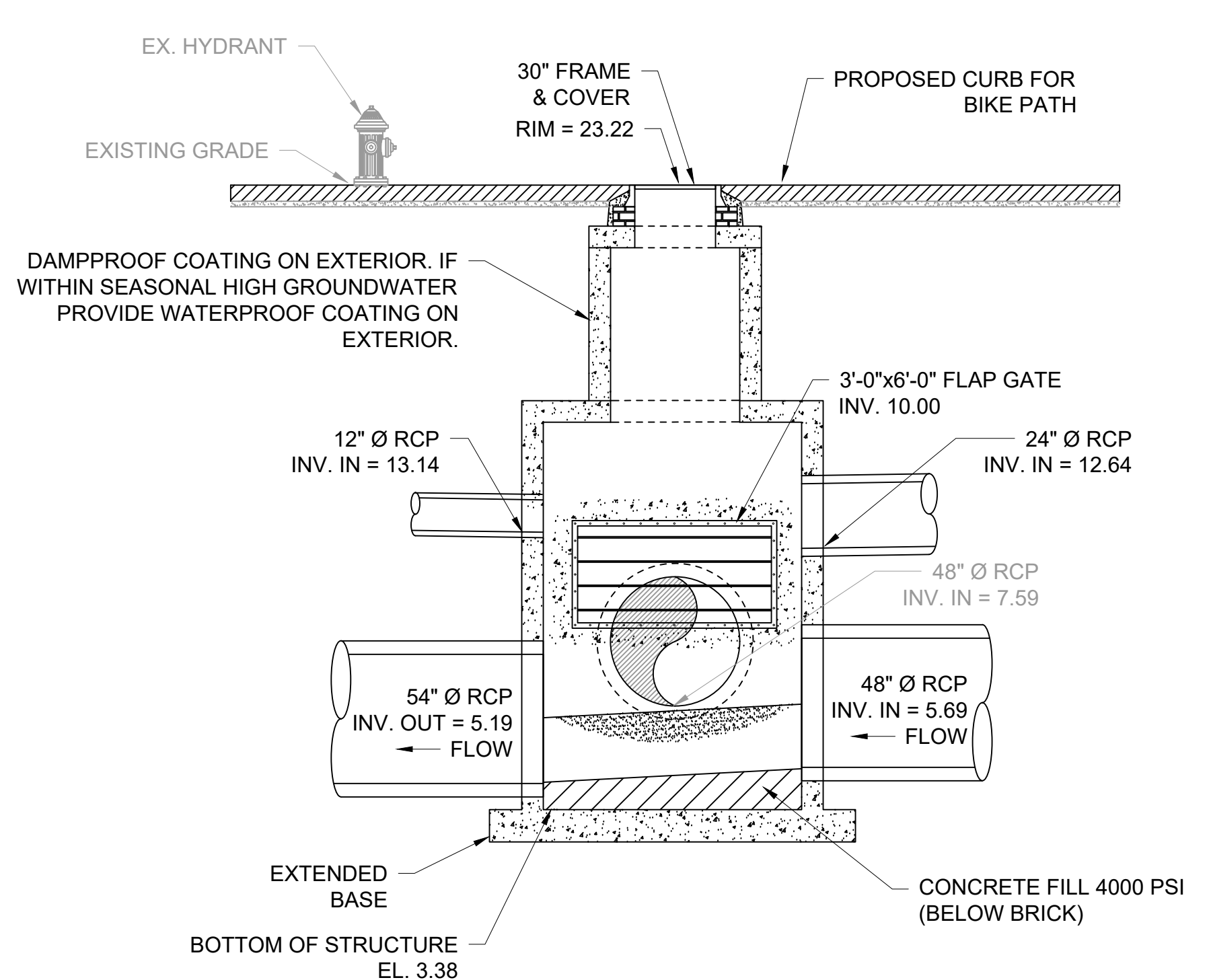
PLAN VIEW
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

1. VERTICAL DATUM FOR PROJECT IS NGVD29.



A SECTION
SCALE: 1/4" = 1'-0"



B SECTION
SCALE: 1/4" = 1'-0"

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE	AS SHOWN
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	C. CRONIN
DRAWN	J. PAYNE
CHECKED	J. D'ALELIO

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PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
STRUCTURAL
OF 210/213/214 FACILITIES
OF-213 DIVERSION STRUCTURE
PLAN AND SECTIONS

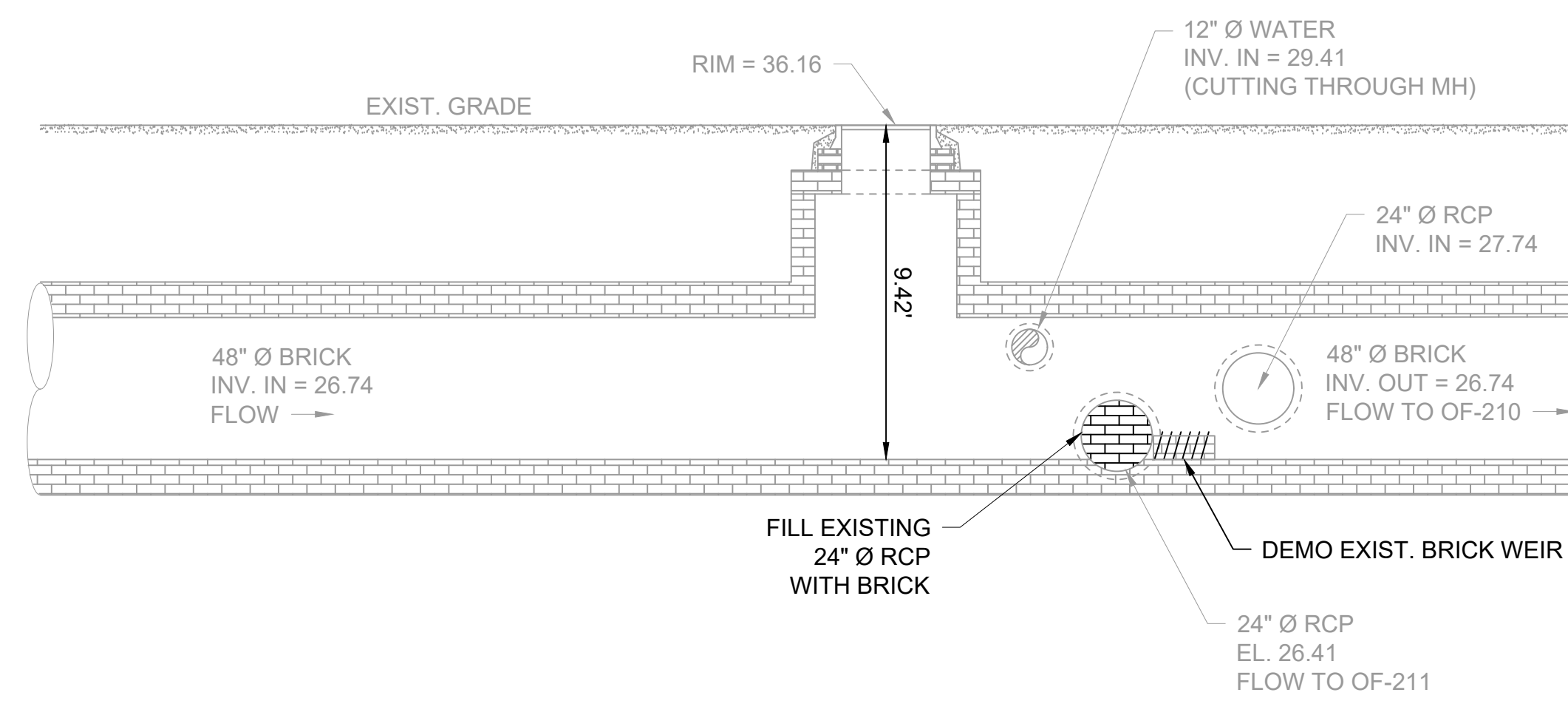
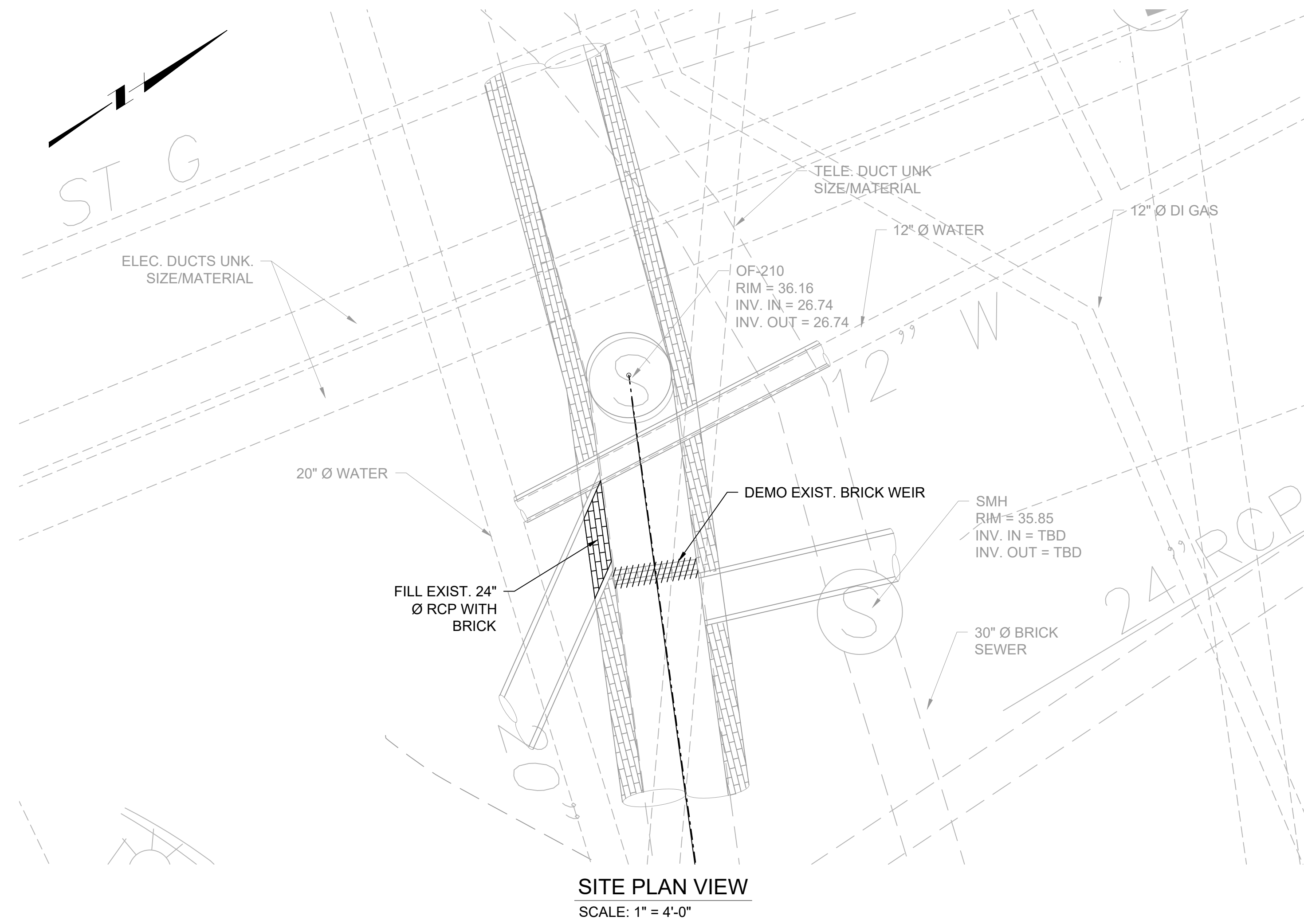
SHEET
S-5
195130227

BY: JAMIE PAYNE

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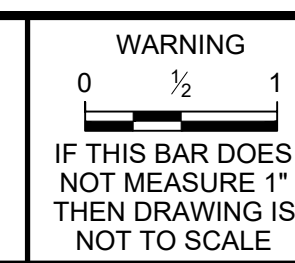
GENERAL SHEET NOTES

1. VERTICAL DATUM FOR PROJECT IS NGVD29.



REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE
AS SHOWN



DESIGNED C. CRONIN
DRAWN J. PAYNE
CHECKED J. D'ALELIO

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PHASE III COMBINED SEWER
OVERFLOW PROGRAM
NBC CONTRACT NO 308.04C
STRUCTURAL
OF 210/213/214 FACILITIES
OF-211 REGULATOR MODIFICATION
PLAN AND SECTION

SHEET
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GENERAL NOTES

GENERAL

- PROCESS MECHANICAL EQUIPMENT AND PIPING LOCATIONS, DIMENSIONS, AND LAYOUTS ARE BASED ON THE EQUIPMENT SELECTED AND SPECIFIED BY THE ENGINEER. IF THE CONTRACTOR PROPOSES TO FURNISH EQUIPMENT THAT REQUIRES AN ARRANGEMENT OR SPACE OTHER THAN THAT INDICATED ON THE DRAWINGS OR AS SPECIFIED, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR APPROVAL DETAILED DRAWINGS AND EQUIPMENT LISTS (FOR IMPACTED DISCIPLINES) SHOWING EQUIPMENT AND PIPING LOCATIONS, DIMENSIONS, AND LAYOUTS PROPOSED. THIS INFORMATION SHALL INCLUDE, BUT NOT BE LIMITED TO, PLANS, SECTIONS, DETAILS, AND SCHEMATICS OF EQUIPMENT AND APPURTENANCES REQUIRED. THE CONTRACTOR SHALL PROVIDE DETAILS OF CHANGES TO ADJACENT PIPE ROUTING TO ACCOMMODATE TIE-IN LOCATIONS FOR PROPOSED EQUIPMENT.
- OTHER DISCIPLINE BACKGROUND DRAWINGS AND DIMENSIONS SHOWN ON THE PROCESS MECHANICAL DRAWINGS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL CLARIFY DISCREPANCIES BETWEEN DISCIPLINES WITH THE ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- EQUIPMENT FOUNDATION AND PAD DIMENSIONS SHOWN ON THE PROCESS MECHANICAL DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE EQUIPMENT PAD DIMENSIONS WITH THE MANUFACTURER TO ACCOMMODATE THE ACTUAL SIZE OF EQUIPMENT FURNISHED (AS SHOWN ON THE APPROVED SHOP DRAWINGS) AND AVAILABLE SPACE. REFER TO THE STRUCTURAL DRAWINGS AND STRUCTURAL STANDARD DETAILS FOR EQUIPMENT PAD DESIGN REQUIREMENTS.
- EQUIPMENT BASES HAVING DRAIN OUTLETS, EQUIPMENT DRAINS, AND PIPING DRAINS SHALL BE PIPED WITH A CONTINUOUS SLOPE TO THE NEAREST FLOOR DRAIN, FLOOR SINK, HUB DRAIN, OR TRENCH DRAIN. DRAIN PIPE NOMINAL DIAMETER AND MATERIAL SHALL BE PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. DRAIN PIPING SHALL BE SUITABLY SUPPORTED AND ROUTED IN SUCH A MANNER TO AVOID TRIP HAZARDS.
- WHERE WELDING OF STAINLESS STEEL IS REQUIRED, PASSIVATE STAINLESS STEEL AFTER WELDING.

PIPING

- CONTRACTOR SHALL PROVIDE INTERCONNECTING PIPING, FITTINGS, WALL PIPES, AND PIPE SUPPORTS (INCLUDING THOSE REQUIRED FOR INSTRUMENTS, DRAINS, AND OTHER APPURTENANCES) AS REQUIRED FOR A COMPLETE PROCESS MECHANICAL PIPING SYSTEM.
- FOR CLARITY, SMALL DIAMETER PROCESS PIPING MAY NOT BE SHOWN IN ITS ENTIRETY. THE CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS TO DETERMINE THE NEW WORK ASSOCIATED WITH EACH PIPING SYSTEM TO COMPLETE THE WORK.
- PROCESS MECHANICAL PIPING SYSTEMS AND EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY TO BE EASILY DISMANTLED AND REMOVED WITHOUT DISTURBING THE REMAINING AND ADJACENT EQUIPMENT, PIPING, AND SUPPORTS.
- PIPING CONNECTED TO PROCESS MECHANICAL EQUIPMENT SHALL BE INSTALLED AND SUPPORTED SUCH THAT IT DOES NOT IMPART STRAIN ON THE EQUIPMENT.
- UNLESS OTHERWISE SHOWN, HORIZONTAL REDUCERS INSTALLED IN PIPING SYSTEMS SHALL BE ECCENTRIC (BOTTOM FLAT). HORIZONTAL REDUCERS CONNECTED TO PUMP SUCTIONS SHALL BE ECCENTRIC (TOP FLAT).
- UNLESS OTHERWISE SHOWN, ELBOWS 2-1/2" AND LARGER SHALL BE STANDARD LONG RADIUS ELBOWS. WHERE REQUIRED IN TIGHT AREAS FOR FIT-UP, USE SHORT RADIUS OR REDUCING ELBOWS.
- A MINIMUM HEADROOM CLEARANCE HEIGHT OF 7'-6" SHALL BE PROVIDED FOR OVERHEAD PROCESS MECHANICAL PIPING SYSTEMS.
- SLEEVE COUPLINGS, FLANGED COUPLING ADAPTERS, AND FLEXIBLE COUPLINGS SUBJECT TO A POSITIVE INTERNAL FLUID PRESSURE SHALL BE PROVIDED WITH RESTRAINT SYSTEMS.
- EXPOSED PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND HEAT TRACED (IF HEAT TRACE IS SPECIFIED). SEE THE SPECIFICATION SECTION 'PIPING', GENERAL FOR HEAT TRACE AND INSULATION REQUIREMENTS.
- IF AN EXTERNAL SOURCE OF PUMP SEAL WATER IS REQUIRED BY THE PUMP MANUFACTURER, SEAL WATER SHALL BE PROVIDED BY THE CONTRACTOR PER THE MANUFACTURER'S RECOMMENDATIONS, WHETHER SHOWN OR NOT SHOWN ON THE CONTRACT DRAWINGS. SEAL WATER PIPING SHALL BE PIPED TO THE NEAREST UTILITY WATER SUPPLY.
- SEAL WELD THREADED PIPE INSTALLATIONS FOR LIQUID OR GASEOUS CHLORINE, LIQUID OR GASEOUS SULFUR DIOXIDE, SODIUM HYDROXIDE, AND ACIDS UNDER PRESSURE. WHEN CONNECTING TO THREADED COMPONENTS OR EQUIPMENT, PROVIDE SEAL WELDED BREAKOUT CONNECTIONS (FLANGED TYPE).

PIPE SUPPORTS

- FOR MATERIALS, SPACING, AND ADDITIONAL REQUIREMENTS RELATED TO PIPE SUPPORTS, SEE THE SPECIFICATION SECTION 'PIPE SUPPORTS'.
- PROVIDE PIPE SUPPORTS REQUIRED FOR A COMPLETE PIPING SYSTEM. PIPE SUPPORTS SHALL BE PROVIDED WHERE REQUIRED BY THE SPECIFICATION SECTION 'PIPE SUPPORTS' AND/OR AT POINTS MARKED WITH AN "X" ON PLAN VIEW DRAWINGS.
- WHEN FIBERGLASS OR PVC-COATED PIPE SUPPORT MATERIALS ARE CUT OR DRILLED, THE CUT EXPOSED END OF THE MATERIAL SHALL BE RE-COATED OR SEALED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PIPE SUPPORTS FOR PLASTIC PIPE OR FIBERGLASS PIPE SHALL BE PROVIDED WITH EXTRA WIDE PIPE SADDLES OR METALLIC SHIELDS WITH LOOSE FIT AROUND THE FULL CIRCUMFERENCE OF THE PIPE AT EACH PIPE SUPPORT.
- PIPE SUPPORTS FOR COPPER PIPE OR TUBING SHALL BE PROVIDED WITH A 2" WIDE BY 1/8" THICK STRIP OF RUBBER FABRIC (OR SIMILAR SUITABLE MATERIAL) AROUND FULL CIRCUMFERENCE OF THE PIPE AT EACH PIPE SUPPORT.
- SUPPORT STRUT CHANNEL ENDS THAT EXTEND INTO PERSONNEL TRAFFIC AREAS SHALL HAVE PLASTIC END CAPS.

VALVES AND GATES

- VALVE AND GATE ACTUATORS SHALL BE MOUNTED TO ALLOW PROPER OPENING AND CLOSING WITHOUT INTERFERENCE WITH ADJACENT PIPING OR EQUIPMENT. UNLESS INDICATED ON THE DRAWINGS, ORIENTATION OF OPERATORS SHALL BE APPROVED BY THE ENGINEER
- UNLESS INDICATED ON THE DRAWINGS, REFER TO THE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS REGARDING THE LOCATION OF THE VALVE SEAT (UPSTREAM OR DOWNSTREAM) AND STEM ORIENTATION.

BY: JAIMIE PAYNE

PLOT DATE: Thursday, May 20, 2021 1:44:24 PM

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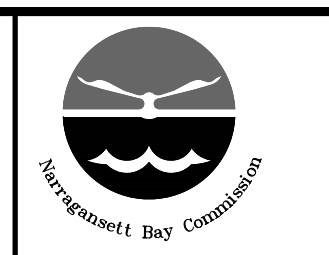
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1	5/13/20	JP	STANTEC COMMENTS

SCALE	NO SCALE
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WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
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DESIGNED	C. CRONIN
DRAWN	J. PAYNE
CHECKED	J. D'ALESSIO

60% DESIGN PHASE - JULY 2021
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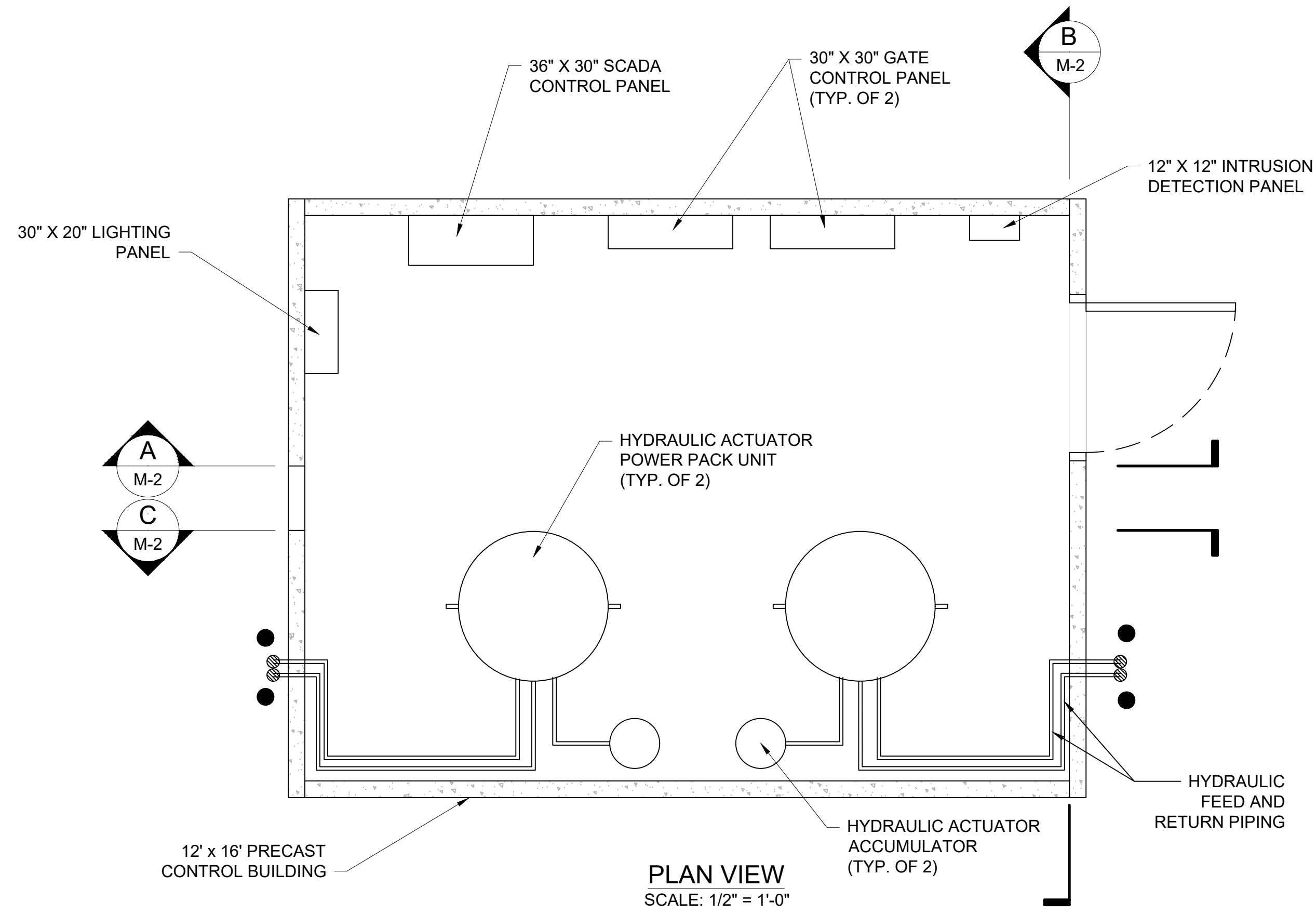


<p>NARRAGANSETT BAY COMMISSION PHASE III COMBINED SEWER OVERFLOW PROGRAM</p>	<p>NBC CONTRACT NO 308.04C GENERAL MECHANICAL</p>	<p>SHEET GM-1</p>
<p>OF 210/213/214 FACILITIES NOTES & SYMBOLS</p>		<p>195130227</p>

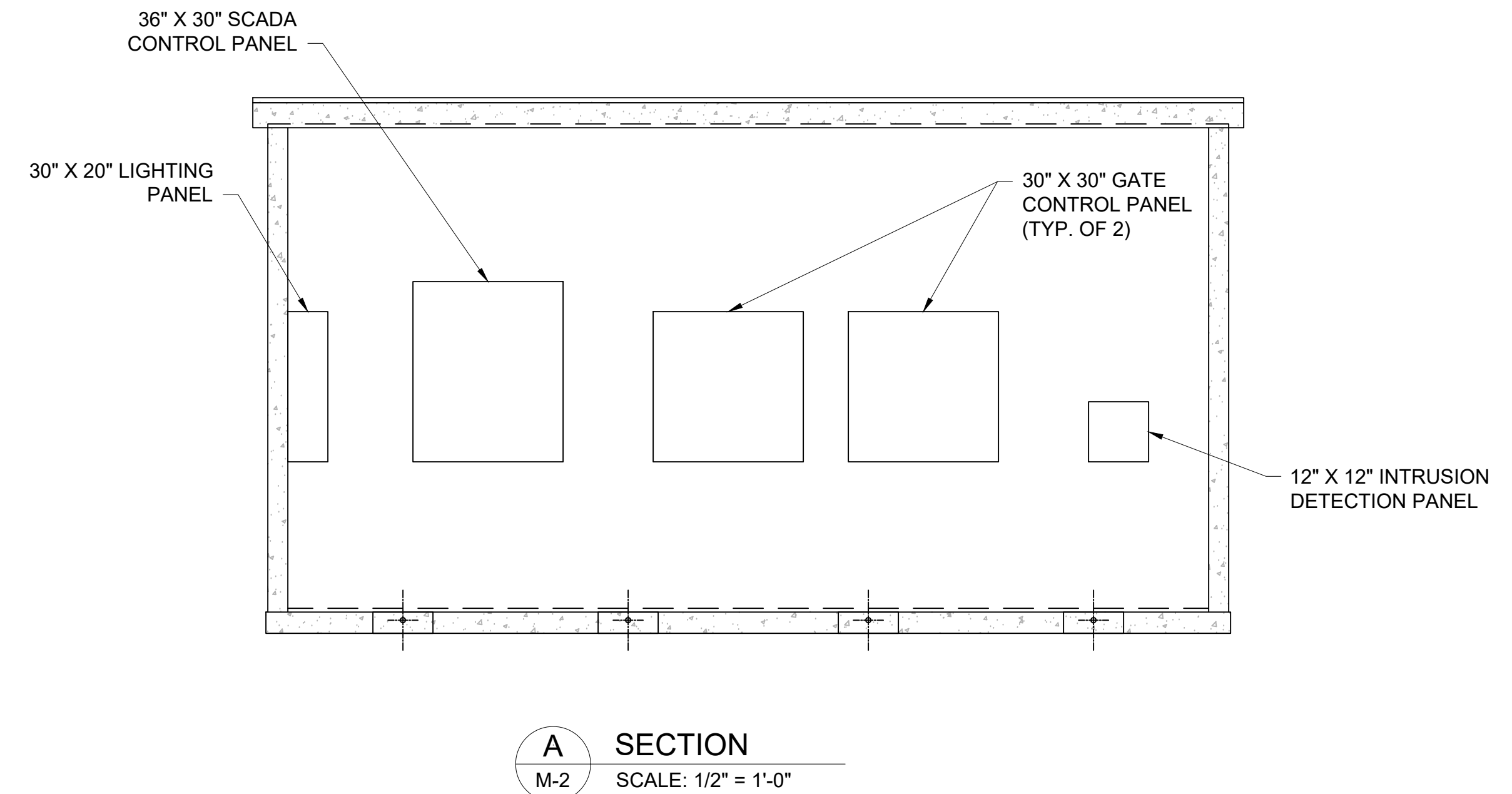
BY: JAMIE PAYNE

Thursday, May 20, 2021 1:49:06 PM

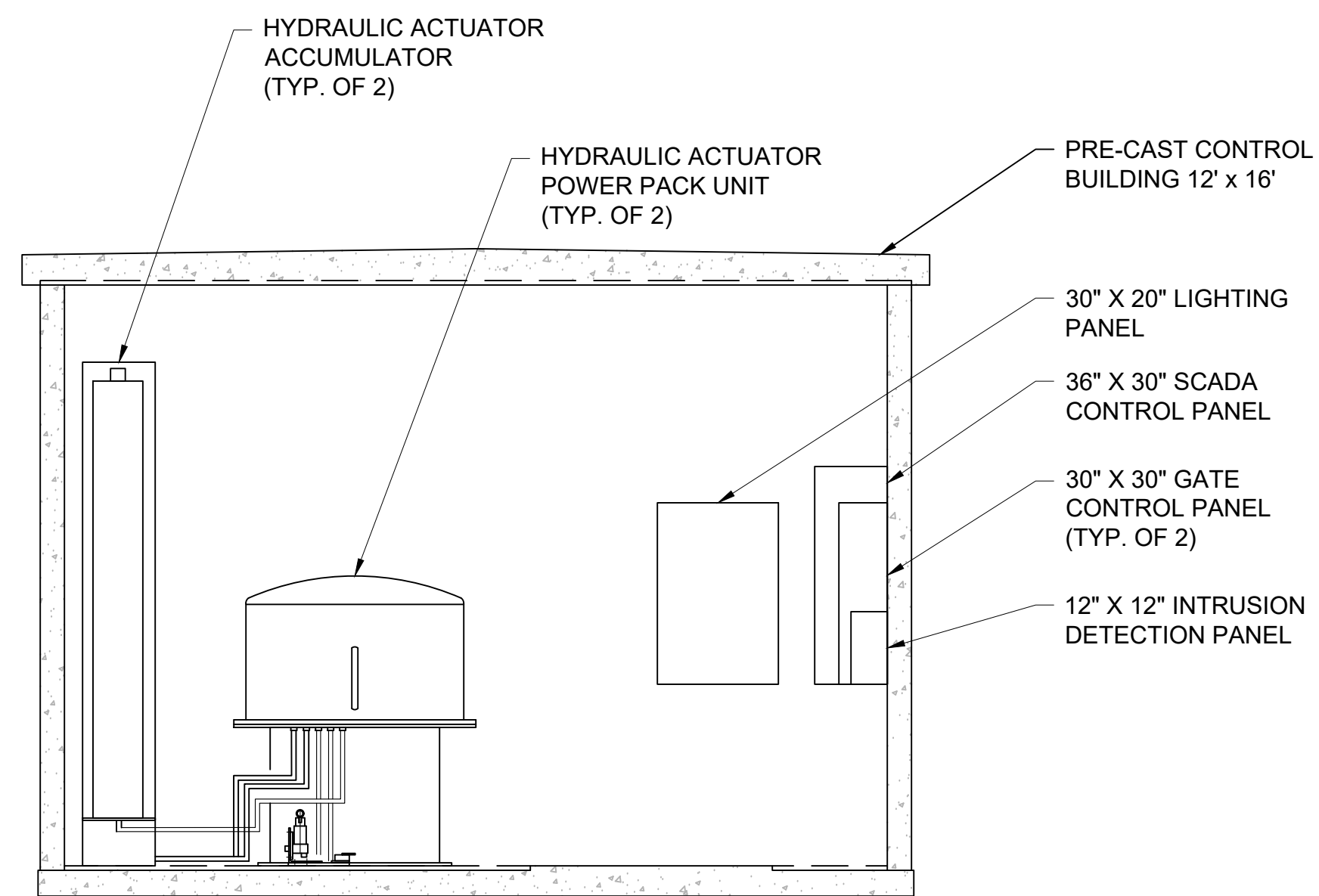
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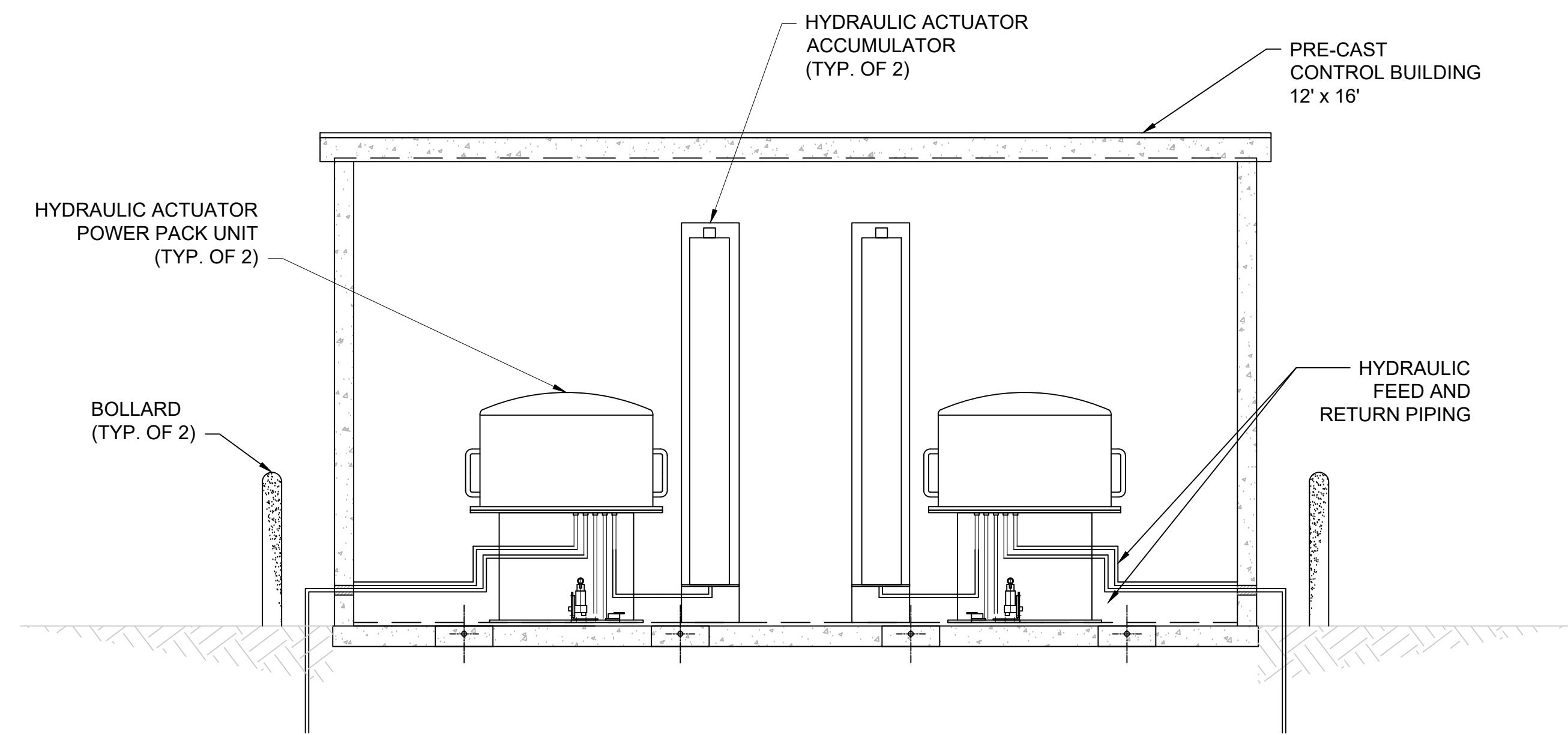
PLAN VIEW
SCALE: 1/2" = 1'-0"



A SECTION
SCALE: 1/2" = 1'-0"



B SECTION
SCALE: 1/2" = 1'-0"



C SECTION
SCALE: 1/2" = 1'-0"

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

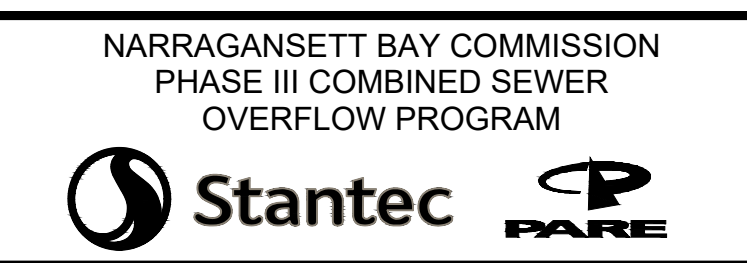
SCALE AS SHOWN	
<p>WARNING IF THIS BAR DOES NOT MEASURE 1' THEN DRAWING IS NOT TO SCALE</p>	

DESIGNED <u>C. CRONIN</u>
DRAWN <u>J. PAYNE</u>
CHECKED <u>J. D'ALELIO</u>

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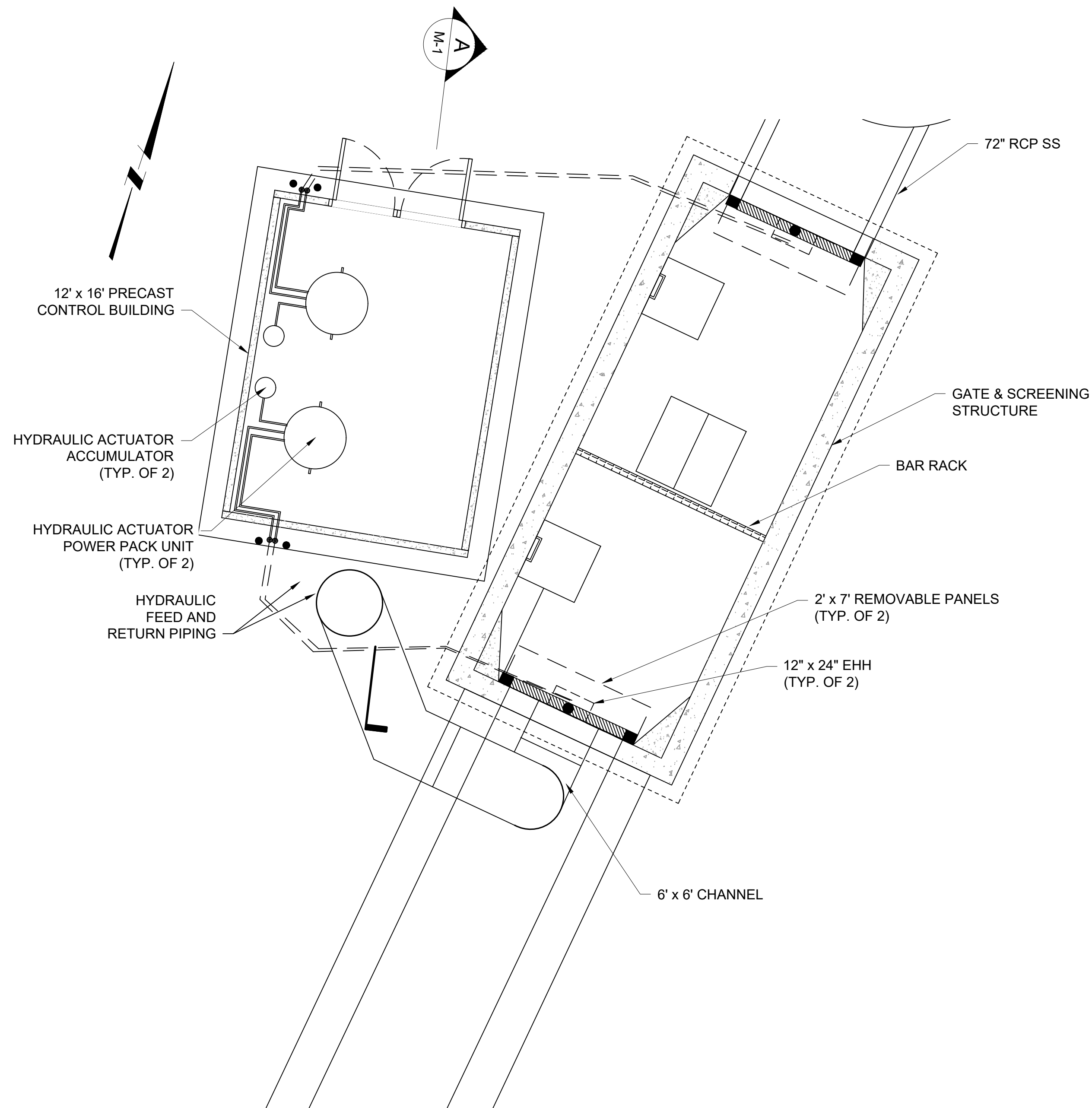
NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
MECHANICAL
OF 210/213/214 FACILITIES
GATE & SCREENING STRUCTURE
CONTROL BUILDING - PLAN AND SECTIONS

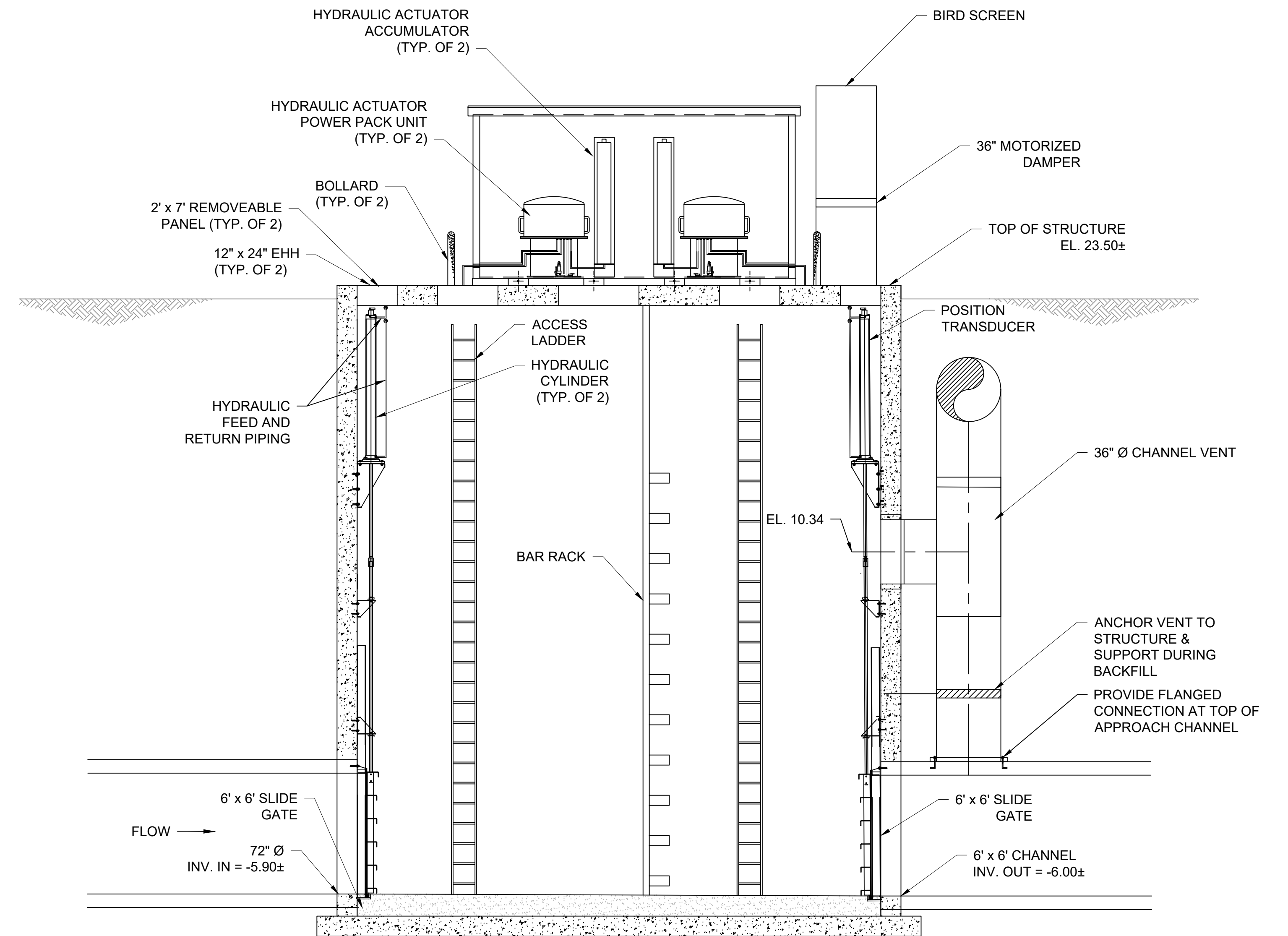
SHEET
M-2
195130227

GENERAL SHEET NOTES

1. VERTICAL DATUM FOR PROJECT IS NGVD29.



PLAN VIEW
SCALE: 1/4" = 1'-0"



A SECTION
M-1 SCALE: 1/4" = 1'-0"

DWG FILE: J:\6412 NBC CSO Consolidation Conduits\Drawing Files\Civil\Sheet Set\PAWT_IIA-4_CSS HEAD HOUSE_PLAN & SECTION\DWG: Thursday, May 20, 2021 1:49:11 PM BY: JAMIE PAYNE

REV	DATE	BY	DESCRIPTION
1	5/13/20	JP	STANTEC COMMENTS

SCALE AS SHOWN	WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE
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DESIGNED C. CRONIN
DRAWN J. PAYNE
CHECKED J. D'ALELIO

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NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

NBC CONTRACT NO 308.04C
MECHANICAL
OF 210/213/214 FACILITIES
GATE & SCREENING STRUCTURE - HYDRAULIC ACTUATOR
AND GATE PLAN AND SECTION