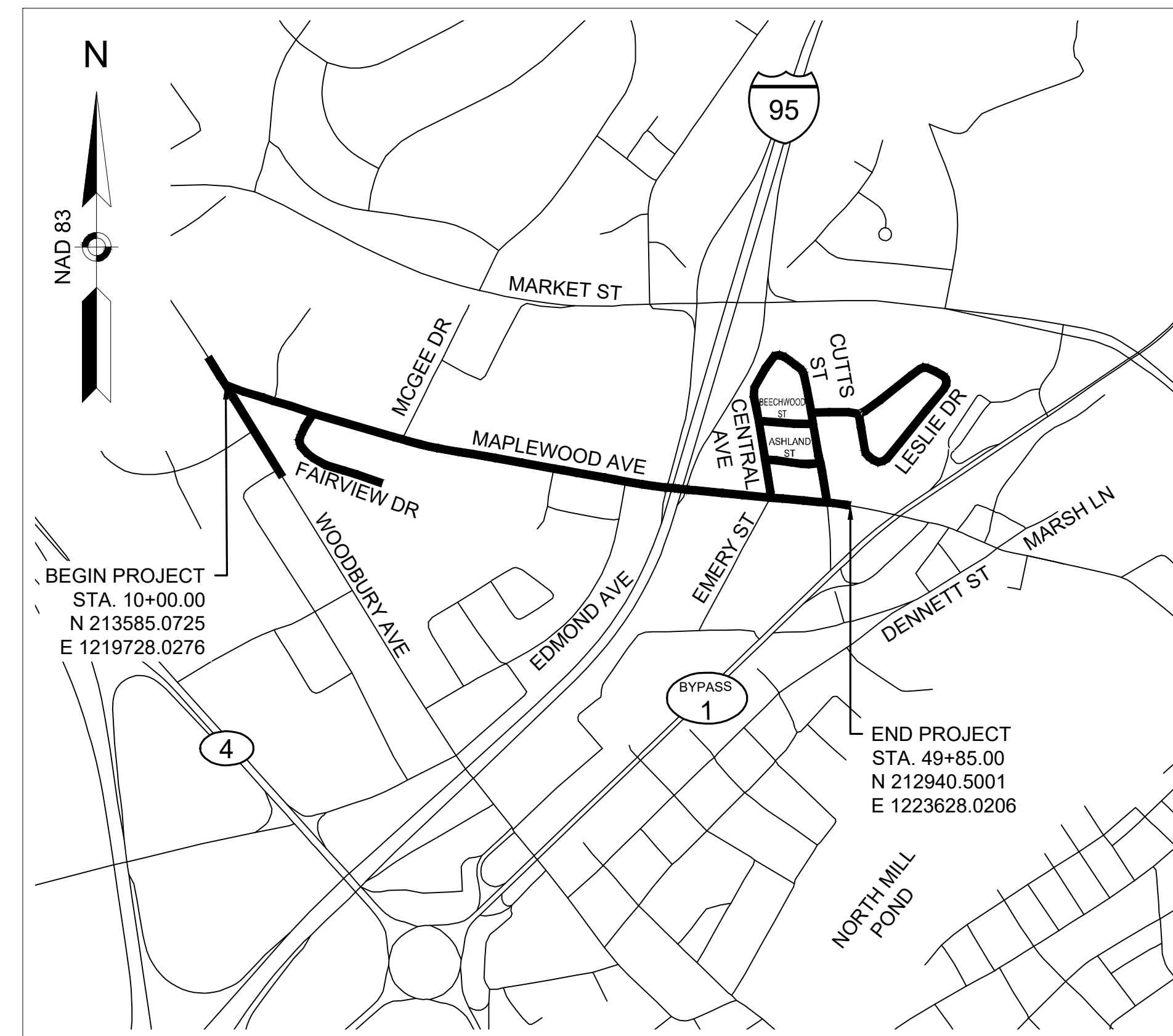


IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS

IN THE CITY OF PORTSMOUTH ROCKINGHAM COUNTY STATE OF NEW HAMPSHIRE



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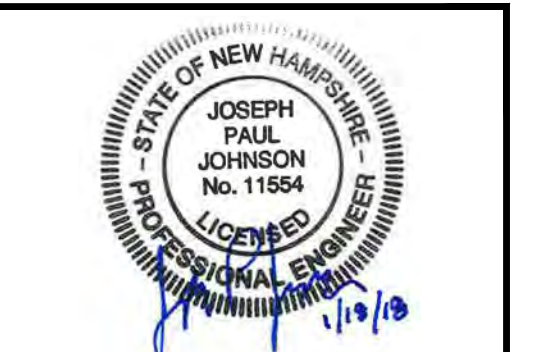


DESIGN DESIGNATION

MAPLEWOOD AVENUE	
DESIGN SPEED	35 MPH
ADT (2016)	2,960
ADT (2036)	3,270
K	9.5%
D	55% (WB)
T (PEAK HOUR)	0.5%
T (AVERAGE DAY)	0.5%
DHV	310
DDHV	170

GPI Greenman-Pedersen, Inc.
Engineering & Construction Services
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Five Centennial Drive, Peabody, MA 01960
978.532.1900 800.SAMPSON
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PREPARED FOR
DEPARTMENT OF PUBLIC
WORKS
CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018

DRAWN/DESIGN BY: CLS/TLD CHECKED BY: JPJ/LES

**TITLE SHEET
& INDEX**

SCALE: AS NOTED

2015086.00

1 OF 184

PORTSMOUTH BID NO. 45-18

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JB JERSEY BARRIER
		CB CATCH BASIN
		FP CATCH BASIN CURB INLET
		GP FLAG POLE
		GP GAS PUMP
		MB MAIL BOX
		Post Square
		Post Circular
		Well
		EHH ELECTRIC HANDHOLE
		OG FENCE GATE POST
		BHL GAS GATE
		MW BORING HOLE
		TP MONITORING WELL
		TP TEST PIT
		Light Pole
		CO.BD. COUNTY BOUND
		GPS Point
		Cable Manhole
		Drainage Manhole
		Electric Manhole
		Gas Manhole
		Misc Manhole
		Sewer Manhole
		Telephone Manhole
		Water Manhole
		HB HIGHWAY BOUND
		MON MONUMENT
		SB STONE BOUND
		TB TOWN OR CITY BOUND
		Traverse or Triangulation Station
		TPL or GUY TROLLEY POLE OR GUY POLE
		HTP TRANSMISSION POLE
		UFB UTILITY POLE W/ FIREBOX
		UPDL UTILITY POLE WITH DOUBLE LIGHT
		ULT UTILITY POLE W / 1 LIGHT
		UPL UTILITY POLE
		BUSH
		Tree
		SWAMP / MARSH
		WG WATER GATE
		PM PARKING METER
		Overhead Cable/Wire
		CURBING
		Contours (ON-THE-GROUND SURVEY DATA)
		Contours (PHOTOGRAMMETRIC DATA)
		Underground Drain Pipe (DOUBLE LINE 24 INCH AND OVER)
		Underground Electric Duct (DOUBLE LINE 24 INCH AND OVER)
		Underground Gas Main (DOUBLE LINE 24 INCH AND OVER)
		Underground Sewer Main (DOUBLE LINE 24 INCH AND OVER)
		Underground Telephone Duct (DOUBLE LINE 24 INCH AND OVER)
		Underground Water Main (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE/COMPOST FILTER TUBES
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

EXISTING PROPOSED

EXISTING	PROPOSED	DESCRIPTION
		SL STOP LINE - 18" THERMOPLASTIC
		CW SINGLE SOLID LINE WHITE
		SSLW CROSSWALK - 1-12" THERMOPLASTIC
		8" SSLW SINGLE SOLID LINE WHITE (SPACED 2' OC)
		SBLW SINGLE SOLID LINE WHITE - 4" OR 6" AS NOTED
		8" SINGLE SOLID LINE WHITE
		* SINGLE BROKEN LINE WHITE - 4"
		* SINGLE BROKEN LINE YELLOW - 4"
		** SINGLE DASHED LINE WHITE - 4" OR 6" AS NOTED
		** SINGLE DASHED LINE YELLOW - 4"
		8" SINGLE SOLID LINE YELLOW
		12" SINGLE SOLID LINE YELLOW
		DOUBLE SOLID LINE YELLOW - 2-4"
		SINGLE SOLID WITH BROKEN LINE YELLOW - 2-4"
		THERMOPLASTIC PAVEMENT ARROW & LEGEND
		THERMOPLASTIC PAVEMENT ARROWS

* BROKEN LANE LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP.)
 ** DASHED LINES TO BE 2' IN LENGTH WITH 6' GAP (TYP.)

PAVEMENT MARKING LEGEND

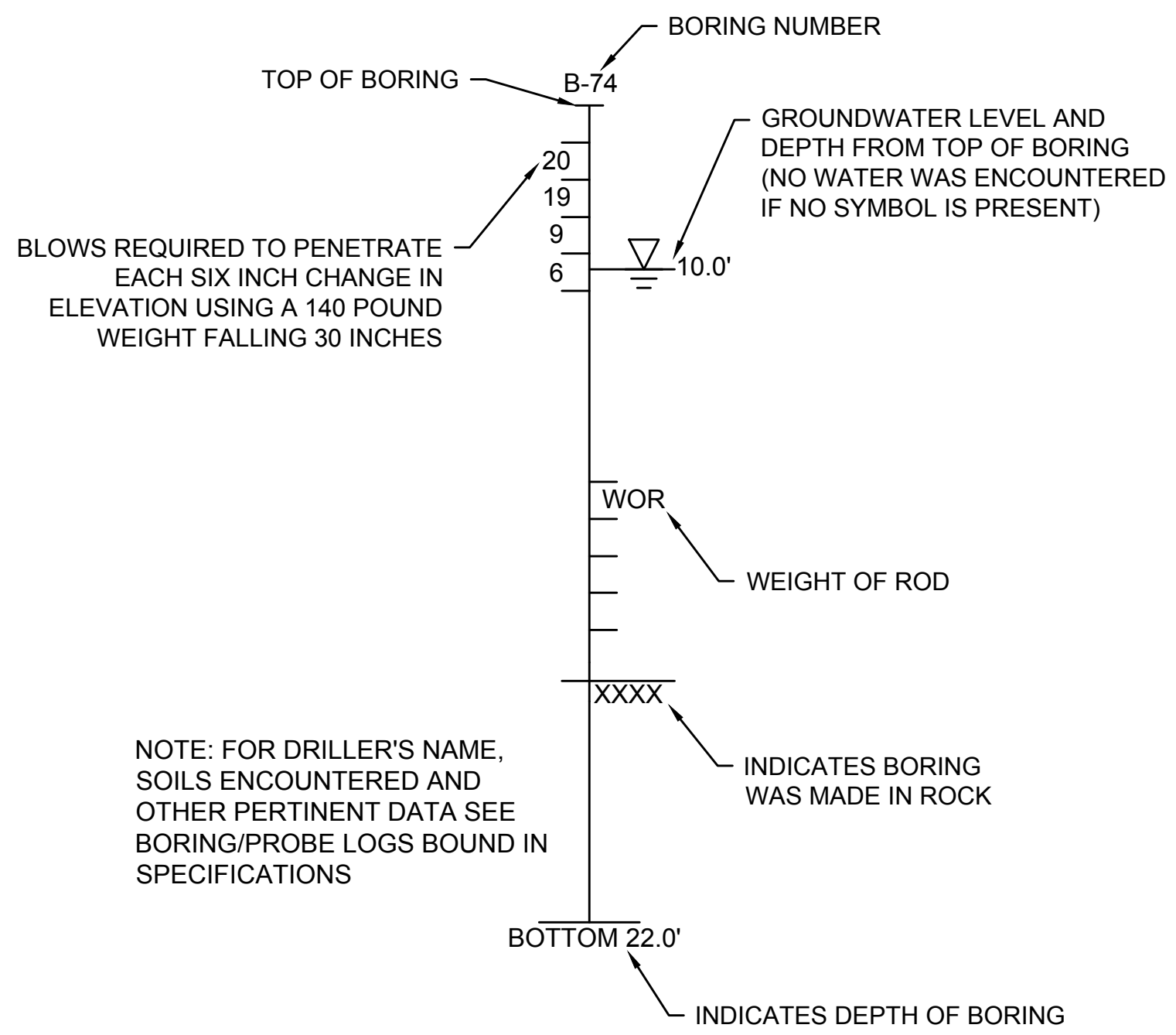
STOP LINE - 18" THERMOPLASTIC
 SINGLE SOLID LINE WHITE
 CROSSWALK - 1-12" THERMOPLASTIC
 SINGLE SOLID LINE WHITE (SPACED 2' OC)
 SINGLE SOLID LINE WHITE - 4" OR 6" AS NOTED
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 SINGLE SOLID WITH BROKEN LINE YELLOW - 2-4"
 THERMOPLASTIC PAVEMENT ARROW & LEGEND
 THERMOPLASTIC PAVEMENT ARROWS

GENERAL ABBREVIATIONS

ABAN	ABANDON
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
ADJ	ADJUST
APPROX	APPROXIMATE
BC	BOTTOM OF CURB
BD	BOUND
BIT CONC	BITUMINOUS CONCRETE
BO	BY OTHERS
BM	BENCH MARK
BW	BOTTOM OF WALL
CC	CEMENT CONCRETE
CCB	CAPE COD BERM
CI	CURB INLET
CIP	CAST IRON PIPE
CT	CHANGE IN TYPE
CLR	CLEARANCE
CLF	CHAIN LINK FENCE
CLDI	CEMENT LINED DUCTILE IRON
CMP	CORRUGATED METAL PIPE
CONST	CONSTRUCTION
CP	CENTER POINT
CPP	CORRUGATED PLASTIC PIPE
COND	CONDUIT
DIP	DUCTILE IRON PIPE
DR	DRIVEWAY
ELEV OR EL	ELEVATION
EOP	EDGE OF PAVEMENT
ETW	EDGE OF TRAVELED WAY
EXIST	EXISTING
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN	FOUNDATION
FND	FOUND
FWD	FILLED WITH DEBRIS
GRAN	GRANITE
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HP	HIGH POINT
HYD	HYDRANT
INV	INVERT
LB	LEACHING BASIN
LAYOUT	LAYOUT
MAX	MAXIMUM
MIN	MINIMUM
MON	MONUMENT
NIC	NOT IN CONTRACT
NGVD	NATIONAL GEODETIC VERTICAL DATUM
N/F	NOW OR FORMERLY
OHW	OVERHEAD WIRE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVCP	POLYVINYLCHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
PWW	PAVED WATERWAY
R	RADIUS
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
REM	REMOVE
REMOD	REMODEL
RCP	REINFORCED CONCRETE PIPE
RET	RETAIN
ROW	RIGHT OF WAY
RR	RAILROAD
SB	STONE BOUND
SB/DH	STONE BOUND/DRILL HOLE
SHLD	SHOULDER
SHLO	STATE HIGHWAY LAYOUT
SSD	STOPPING SIGHT DISTANCE
STA	STATION
STL	STEEL
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TOS	TOP OF SLOPE
TS	TRAFFIC SIGNAL
TSV & B	TAPPING SLEEVE, VALVE AND BOX
TYP	TYPICAL
TW	TOP OF WALL
UC	UNDER CONSTRUCTION
USGS	U.S. GEOLOGICAL SURVEY
UP	UTILITY POLE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
WCR	WHEELCHAIR RAMP

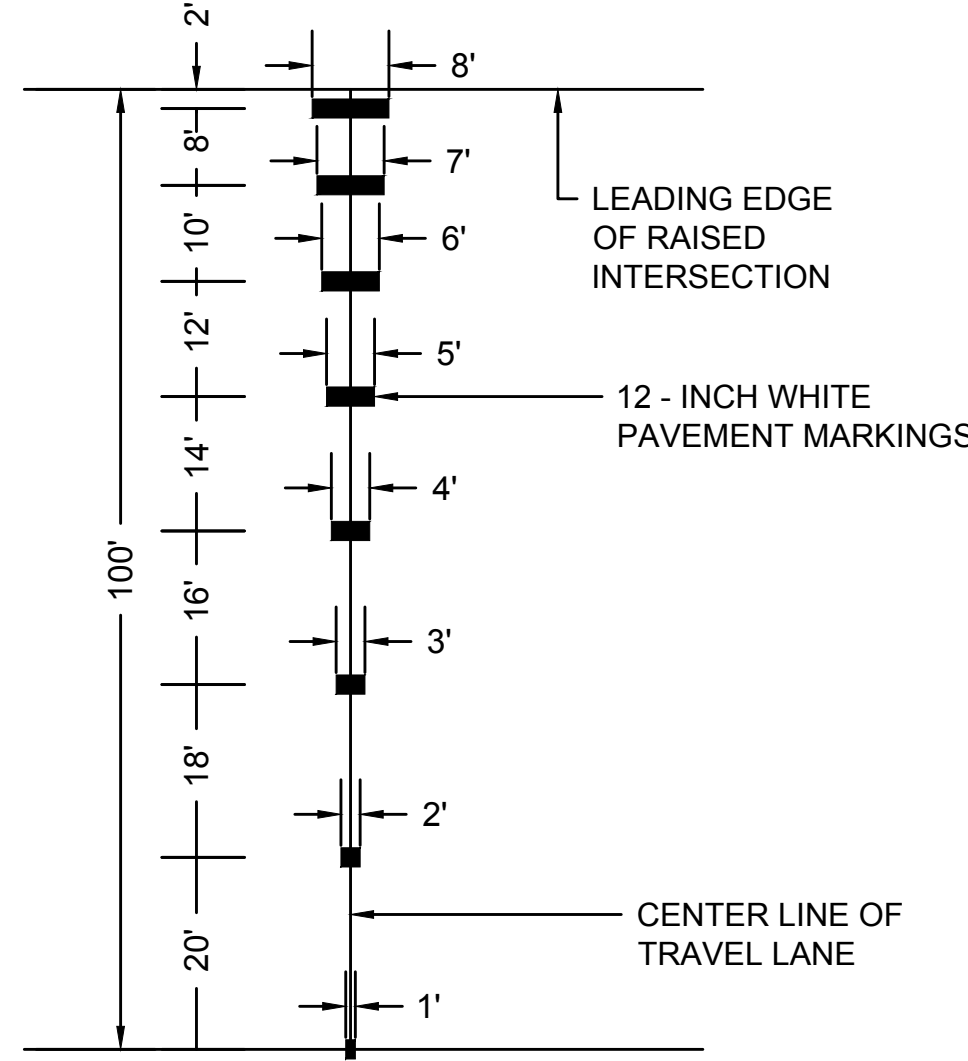
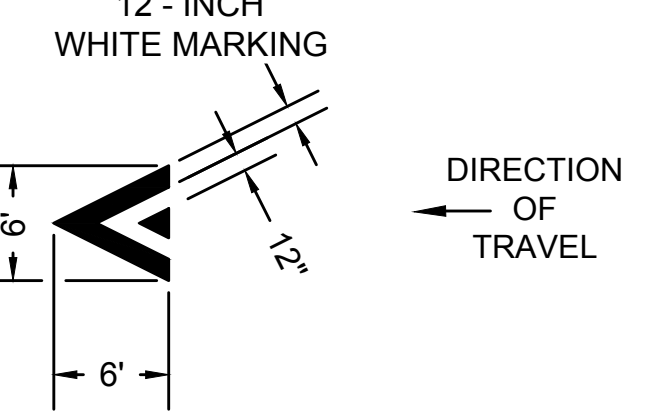
UTILITY ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCOMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CI	CAST IRON
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWG	DRAWING
E	EAST, ELECTRIC
EA	EACH
EF	EACH FACE
FLG	FLANGE
FT	FEET, FOOT
FM	FORCE MAIN
G	NATURAL GAS
GALV	GALVANIZED
GR	GRANITE
HC	HOUSE CONNECTION
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
I	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MHT	MANHOLE (TELEPHONE)
OMH	MANHOLE (OTHER)
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NE	NORTH EAST
NHDES	NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
NHDOT	NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
NW	NORTHWEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
RQD	ROCK QUALITY
S	SEWER, SOUTH
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE, STAINLESS STEEL
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
THK	THICK (NESS)
TYP	TYPICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT



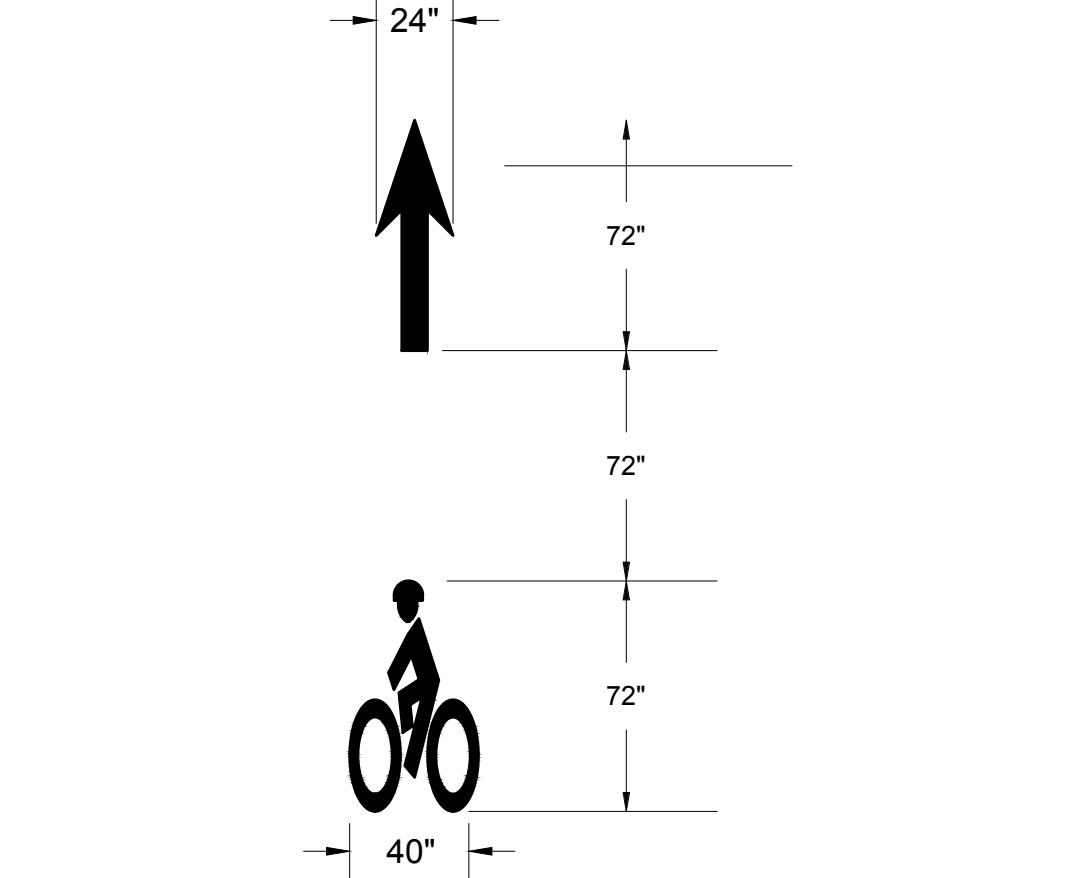
BORING LOG LEGEND

NOT TO SCALE



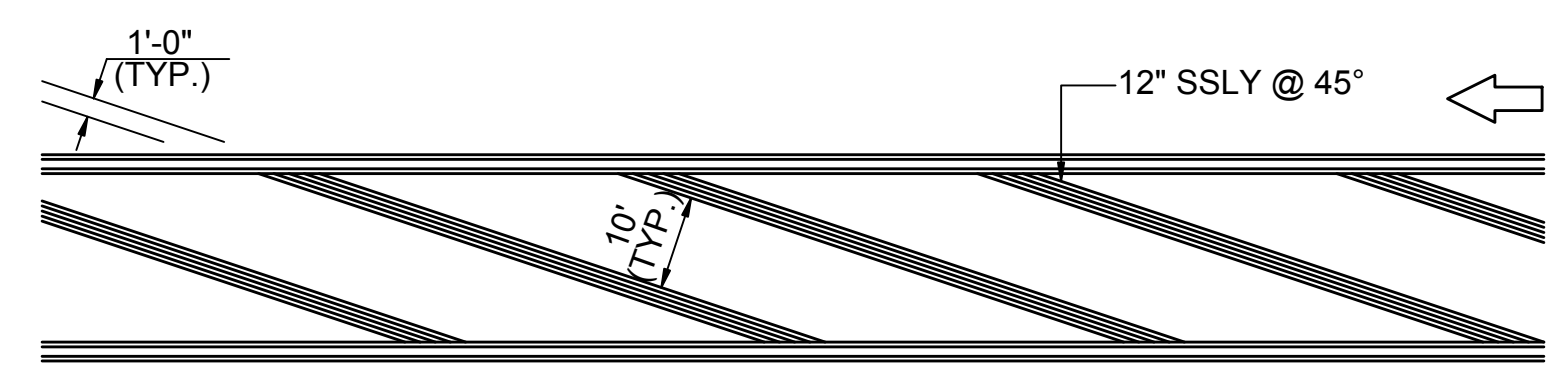
DETAIL - ADVANCE WARNING MARKINGS

NOT TO SCALE



HELMETED BICYCLE LANE MARKING DETAIL

NOT TO SCALE

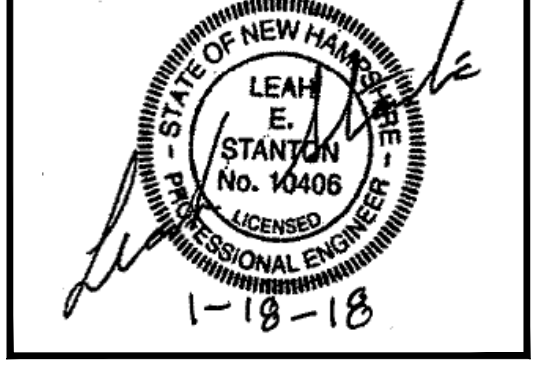


GORE AREA DETAIL

NOT TO SCALE

GPI Greenman-Pedersen, Inc.
 Engineering & Construction Services
 21 Daniel Street, Second Floor, Portsmouth, NH 03801
 Tel: (603) 891-2213 Fax: (978) 658-3044
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 PORTSMOUTH, NH 03801

IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS
 CHECKED BY: JPJ

LEGEND & ABBREVIATIONS

SCALE: N.T.S.
 2015086.00

GENERAL NOTES

- EXISTING SANITARY SEWER UTILITY, TOPOGRAPHIC INFORMATION, EDGE OF PAVEMENT, UTILITY POLE LOCATIONS, AND LOCATIONS OF EXISTING ABOVE GROUND STRUCTURES WERE TAKEN FROM GROUND SURVEY CONDUCTED NOVEMBER 2015 BY GREENMAN-PEDERSEN, INC. (GPI), 21 DANIEL STREET, SECOND FLOOR, PORTSMOUTH, NH 03801 (603-891-2213). LESLIE DRIVE AND CENTRAL/CUTTS AREA WAS DEVELOPED BY EASTERLY SURVEYING, WHICH WAS PROVIDED BY THE CITY OF PORTSMOUTH, NH.
- THE HORIZONTAL DATUM SHOWN HEREON IS BASED UPON THE NH STATE PLANE COORDINATE SYSTEM, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) (2011), EPOCH 2010.00 AS ESTABLISHED BY GPI IN NOVEMBER 2015 VIA GPS OBSERVATION. THE VERTICAL DATUM SHOWN HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS ESTABLISHED BY GPI IN NOVEMBER 2015 VIA GPS OBSERVATION APPLYING THE GEOID 12B MODEL. THE UNITS SHOWN HEREON ARE US SURVEY FEET.
- WETLAND DELINEATION WAS PERFORMED IN DECEMBER 2016 AND MAY 2017 BY ROBERT PROKOP, NHCWS-063, 15 BISSON LANE, MERRIMAC, MA 01860. WETLAND FLAGS LOCATED BY GPI.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS DATED 2016, CURRENT STANDARD PLANS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL. THESE PLANS HAVE BEEN CREATED TO BE USED TOGETHER WITH THE CONTRACT AND SPECIFICATIONS TO CREATE ONE COMPLETE BID AND CONSTRUCTION DOCUMENT.
- CONTRACTOR SHALL TAKE SPECIAL CARE IN NOT DISTURBING EXISTING MONUMENTS, BOUNDS, AND/OR BENCHMARKS WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (INCLUDING SERVICES) ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE AND LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION. STRUCTURES SHOWN MAY HAVE MULTIPLE SERVICES AND MAY HAVE OLD CONNECTIONS THAT MAY NOT HAVE BEEN PROPERLY ABANDONED. NO EXTRA PAYMENTS WILL BE MADE FOR EXPLORATION OF DEFUNCT UTILITIES LEFT IN THE GROUND.
- WHERE AN EXISTING UNDERGROUND UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE TERM "PROPOSED" (PROP.) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE & RESET" (R & R).
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL SYMBOLS, WORDS, TRANSVERSE MARKINGS (STOP BARS, ADVANCE WARNING MARKINGS AND CROSSWALK LINES) AS NOTED ON THE PAVEMENT MARKING LEGEND ON SHEET 2 SHALL BE THERMOPLASTIC.
- THE CONTRACTOR SHALL CONTACT THE PORTSMOUTH DEPARTMENT OF PUBLIC WORKS AT 427-1530 ONE WEEK PRIOR TO PAVEMENT MARKING.
- ALL EXISTING STATE, COUNTY, CITY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND THEIR EXACT LOCATIONS ARE NOT GUARANTEED. ALL PROPERTY LINES BETWEEN ABUTTERS ARE APPROXIMATE ONLY.
- ALL DISTURBED AREAS NOT DESIGNATED TO BE PAVED SHALL HAVE LOAM (ITEM 641.) AND SEED, PLACED WITH MULCH AND TACKIFIERS (ITEM 646.31). THE LOAM SHALL HAVE A MINIMUM DEPTH OF 6 INCHES AND SHALL BE PLACED FLUSH WITH THE TOP OF THE ADJACENT CURB, EDGING, BERM OR PAVEMENT SURFACE.
- THE LIMIT OF WORK AREA SHALL BE THE STREET RIGHT OF WAY UNLESS SHOWN OTHERWISE.
- PRIOR TO THE START OF ANY NEW UTILITY WORK, ALL ELEVATIONS OF EXISTING UTILITIES IN THOSE AREAS ARE TO BE VERIFIED. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY SHOULD ANY DISCREPANCIES OCCUR.
- ALL CASTINGS (BESIDES DRAINAGE MANHOLE COVERS AND DRAINAGE GRATES) SHALL BE SET FLUSH WITH FINISHED GRADE AND IN ACCORDANCE WITH SEWER AND WATER CONSTRUCTION NOTE 13.
- ALL GATE BOXES, SERVICE BOXES AND PUBLICLY OWNED MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO GRADE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL MATERIALS TO BE USED ON THIS PROJECT. THE CONTRACTOR SHALL NOT PURCHASE ANY MATERIALS UNTIL THEY HAVE BEEN APPROVED FOR USE BY THE OWNER.
- UTILITIES DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- TEMPORARY AND OR PERMANENT PAVING REPAIRS SHALL MAINTAIN EXISTING LINE AND GRADE UNLESS INDICATED OTHERWISE (SEE PROFILES AND CROSS SECTIONS) OR OTHERWISE DIRECTED BY THE ENGINEER.
- AS BUILT RED-LINE DRAWINGS NEED TO BE FURNISHED BY THE CONTRACTOR PRIOR TO FINAL PAYMENT. THE PREPARATION OF THESE AS BUILTS IS CONSIDERED SUBSIDIARY TO THE PROJECT.
- OVERHEAD WIRES ARE SHOWN ON THE DRAWINGS BUT THE CITY MAKES NO WARRANTY TO THEIR COMPLETENESS OR THAT HEIGHT IS SUFFICIENT TO COMPLETE THE WORK. POLES THAT NEED TO BE HELD UP BY THE UTILITY COMPANY WILL BE PAID FOR BY THE CONTRACTOR WITH NO ADDITIONAL COST PASSED ON TO THE OWNER.
- NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY UNTIL THE OWNER HAS SIGNED A

GENERAL NOTES (CONT.)

MEMORANDUM OF UNDERSTANDING WITH THE CITY.

- CONTRACTOR SHALL RECOGNIZE AND ACCOUNT FOR POTENTIAL LIMITATION ON EQUIPMENT TO BE UTILIZED ALONG MAPLEWOOD AVENUE AND UNDER THE I-95 BRIDGE.
- ALL EXISTING STRUCTURES ABANDONED IN PLACE SHALL BE REMOVED TO 3:BELOW GRADE AND FILLED WITH COMPACTED GRAVEL. PIPES SHALL BE PLUGGED AT ALL OPEN AREAS AND ANY PIPE LARGER THAN 6" SHALL BE FILLED WITH PUMPED FLOWABLE FILL.
- THE CONTRACTOR SHALL IMPLEMENT VIBRATION MONITORING IN ORDER TO PROTECT EXISTING WALLS AND STRUCTURES LOCATED ADJACENT TO THE WORK ZONE. THIS MONITORING WILL BE PAID FOR UNDER ITEM 211.12.

STORM DRAINAGE SYSTEM NOTES

- ALL DRAIN LATERALS SHALL BE 6" UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PRIOR TO THE CONSTRUCTION OF THE NEW DRAIN MAIN, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FIND THE EXACT LOCATION, SIZE, TYPE AND ELEVATION OF EACH DRAIN LATERAL. DRAIN LATERALS SHALL BE INSTALLED TO THE PROPERTY LINE. ALL DRAIN LATERALS SHALL HAVE A MINIMUM PITCH OF 2%.
- THE CONTRACTOR SHALL PHASE THE CONSTRUCTION OF THE DRAIN TO MINIMIZE DISRUPTION TO THE EXISTING SYSTEM. THE SYSTEM SHALL NOT BE SURCHARGED AND ANY DAMAGE CAUSED BY A SURCHARGE WILL BE PAID FOR BY THE CONTRACTOR. MAINTENANCE OF THE DRAINAGE FLOWS IS SUBSIDIARY TO THE WORK.
- EXISTING SERVICES THAT ARE DETERMINED TO BE YARD, FOUNDATION OR ROOF DRAINS SHALL BE CONNECTED TO THE DRAINAGE SYSTEM AFTER BEING TESTED.
- DRAINAGE CONSTRUCTION WILL START AT THE LOW POINT OF THE SYSTEM UNLESS APPROVED BY THE ENGINEER.
- DRAIN MANHOLE COVERS AND CATCH BASINS GRATES SHALL BE SET 1/4 OF AN INCH BELOW GRADE.
- DRAIN MANHOLES AND CATCH BASINS FRAMES, COVERS AND GRATES SHALL BE IN CONFORMANCE WITH CITY OF PORTSMOUTH AND NHDOT STANDARDS.
- ALL CATCH BASINS, DRAIN MANHOLES & DRAIN LINES SHALL BE CLEANED PRIOR TO ACCEPTANCE.
- ALL REQUIRED STORM DRAIN SERVICES MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL EVALUATE EACH HOME FOR THE PRESENCE OF AN EXISTING DRAIN SERVICE. SERVICES SHALL BE PROVIDED WHERE DIRECTED BY THE ENGINEER.

SEWER AND WATER CONSTRUCTION NOTES

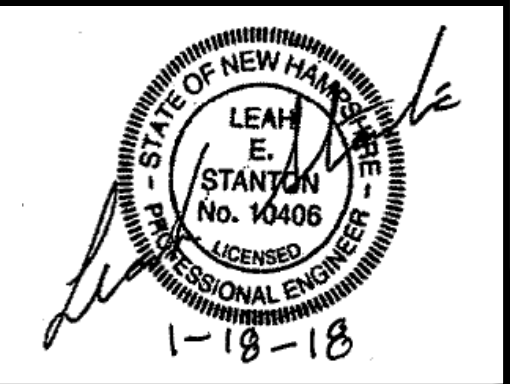
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
- STONE WALLS, FENCES, MAIL BOXES, LANDSCAPING, TREES, WALKWAYS, SIGNS, CURBS, LIGHT POLES AND ALL OTHER EXISTING FEATURES SHALL BE REMOVED AND RESTORED AS NECESSARY TO COMPLETE THE WORK FOR THE SEWER & WATER SERVICES. IF THE FEATURE(S) CANNOT BE RESTORED TO THE SATISFACTION OF THE OWNER, THEY SHALL BE REPLACED. UNLESS ASSOCIATED WITH ROADWAY WORK, OR OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT.
- ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- CONCRETE CRADLES OR ARCHES SHALL BE CONSTRUCTED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- SEWER TRENCHES MAY BE EXCAVATED WIDER THAN THE LIMIT OF EXCAVATION AND PAYMENT FOR EARTH EXCAVATION ABOVE THE LINE OF NARROW TRENCH LIMIT. ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTORS EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.
- BELOW THE LINE OF NARROW TRENCH LIMIT THE TRENCH SHOULD NOT BE EXCAVATED BEYOND THE TRENCH WIDTH. IF MATERIAL IS LOOSENEED OR REMOVED BEYOND THE ABOVE MENTIONED LIMITS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CRUSHED STONE FOR THE FULL WIDTH OF THE TRENCH AT NO ADDITIONAL COST TO THE OWNER.
- SHEETING TO BE LEFT IN PLACE SHALL BE USED WHERE SHOWN ON THE DRAWINGS OR WHERE REQUIRED BY THE ENGINEER. IT SHALL BE LEFT IN PLACE BELOW A LINE 12 INCHES ABOVE THE TOP OF THE PIPE UNLESS OTHERWISE REQUIRED BY THE ENGINEER.
- FOUR FOOT INSIDE DIAMETER MANHOLES SHALL BE USED WITH SEWERS LESS THAN 24 INCHES IN DIAMETER, AND FIVE FOOT INSIDE DIAMETER MANHOLES SHALL BE USED WITH SEWERS EQUAL TO OR GREATER THAN 24 INCHES IN DIAMETER, UNLESS OTHERWISE SPECIFIED.
- OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.
- FORM BRICK INVERTS IN MANHOLES WITH BRICK ON EDGE TO A DEPTH OF HIGHEST PIPE CROWN AND FORM A 1 INCH SLOPED BENCH WITH BRICK FLAT. INVERT SHALL BE SLOPED UNIFORMLY BETWEEN INLET AND OUTLET PIPE AND SHALL BE FORMED AND FILLED AS REQUIRED TO DIRECT THE FLOW AS INDICATED AND TO PREVENT DEPOSITION OF SOLIDS.
- IN PAVED AREAS THE TOP OF THE MANHOLE COVER SHALL BE SET FLUSH WITH THE PAVED SURFACE. IN OTHER AREAS THE TOP OF THE COVER SHALL EXTEND 6 INCHES ABOVE FINISHED GRADE, OR AS SHOWN ON THE DRAWINGS, OR AS REQUIRED BY THE ENGINEER.
- TRENCH PIPE INSULATION SHALL BE USED WHERE DEPTH OF COVER IS LESS THAN FIVE (5) FEET OR AS REQUIRED BY THE ENGINEER.

SEWER AND WATER CONSTRUCTION NOTES (CONT.)

- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED AT THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE AS SHOWN ON THE DRAWINGS. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
- EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL THAT MAIN HAS PASSED PRESSURE TEST AND DISINFECTION REQUIREMENTS.
- EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE OWNER. WATER SERVICE SHALL NOT BE INTERRUPTED MORE THAN 4 HOURS WITHOUT PRIOR APPROVAL OF THE OWNER.
- ALL HYDRANTS REMOVED SHALL BE SALVAGED AND DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER. SURFACE RESTORATION SHALL BE IN KIND UNLESS OTHERWISE NOTED.
- ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED AND APPROVED BAG.
- VALVE BOXES ON MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR. SURFACE RESTORATION SHALL BE IN KIND UNLESS OTHERWISE NOTED.
- EXISTING WATER MAINS PARALLEL TO PROPOSED WATER MAINS SHALL BE ABANDONED. ALL SERVICE CONNECTIONS SHALL BE TRANSFERRED TO NEW WATER MAIN AS REQUIRED.
- FOR WATER MAIN REMOVE AND REPLACE WORK, THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF EXISTING WATER MAIN WHEN IT IS IN THE NEW WATER MAIN TRENCH.
- THE LOCATION OF PIPES, CAPS, REDUCERS, BENDS, AND OTHER FITTINGS AT POINTS OF CONNECTIONS TO EXISTING MAINS IS APPROXIMATE. CONTRACTOR SHALL DIG A TEST PIT AT EACH LOCATION TO DETERMINE THE DIAMETER AND MATERIAL OF THE EXISTING PIPE AND THE LOCATION OF THE TIE-IN POINT.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WHICH HOLD WATER IN THE SYSTEM. THE OWNER WILL, ON 72 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO THE VARIOUS SECTIONS OF THE WATER MAINS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY IN WRITING 48 HOURS IN ADVANCE, ANY OCCUPANT THAT WILL BE WITHOUT WATER DUE TO A SHUTDOWN.
- SOME WATER SERVICE CONNECTIONS MAY NOT BE SHOWN ON THE DRAWINGS. THE OWNER WILL MARK THE LOCATION OF SUCH CONNECTIONS, PROVIDED THE CONTRACTOR GIVES THE OWNER AT LEAST 72 HOURS ADVANCE NOTICE.
- ALL NEW WATER SERVICES SHALL BE THE SAME SIZE AS THE EXISTING WATER SERVICE, EXCEPT THAT NO SERVICE SHALL BE LESS THAN 1" IN DIAMETER. COORDINATE THIS WORK WITH THE WATER DEPARTMENT.
- TEMPORARY WATER SERVICE PIPE WILL BE REQUIRED FOR ALL RESIDENTS WITHIN THE CONTRACT LIMITS WHERE THEY WILL BE WITHOUT WATER FOR A PERIOD OF 4 HOURS OR MORE AND ALSO WHERE REQUIRED BY THE ENGINEER. TEMPORARY GATE VALVES AND FIRE HYDRANTS ARE TO BE PROVIDED, AS REQUIRED.
- CONTRACTOR RESPONSIBLE FOR MAINTAINING TEMPORARY BYPASS 24/7 WHILE ACTIVELY BEING USED TO FEED DWELLINGS.
- SEWER CHIMNEY AND HOUSE CONNECTION LOCATIONS ARE SHOWN FOR ESTIMATING PURPOSES, AND ARE APPROXIMATE IN LOCATION. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
- PROTECTION OF WATER SUPPLIES - WHENEVER A SEWER MUST CROSS UNDER A WATER MAIN, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE WATER MAIN SHALL BE RELOCATED BY THE CONTRACTOR AS REQUIRED BY THE ENGINEER TO PROVIDE THIS SEPARATION OR THE CONTRACTOR SHALL CONSTRUCT THE NEW SEWER OF CLASS 150 PRESSURE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE WATER MAIN. ONE FULL LENGTH OF CLASS 150 PRESSURE PIPE SEWER SHOULD BE CENTERED ON THE WATER MAIN AS MUCH AS POSSIBLE. THE SEWER CONSTRUCTED OF THE PRESSURE PIPE MUST BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS.
- CALCULATION OF PIPE SLOPES IS BASED ON ELEVATION CHANGES DIVIDED BY THE DISTANCE BETWEEN THE OUTSIDE EDGES OF THE MANHOLE WALLS. FOR FOUR FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS FIVE FEET. FOR FIVE FOOT DIAMETER MANHOLES, THIS DISTANCE WAS CALCULATED AS THE CENTERLINE STATIONING MINUS SIX FEET. IN□ INDICATES UPSTREAM END OF MANHOLE, OUT□ INDICATES DOWNSTREAM END OF MANHOLE.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING OR COVERING WITH STEEL PLATES (ONLY WITH APPROVAL FROM THE DIRECTOR OF PUBLIC WORKS AHEAD OF TIME).
- WORK WITHIN WETLANDS IS NOT ALLOWED DURING THIS PROJECT. CONTRACTOR SHALL PROTECT AND MAINTAIN WETLAND DELINEATION FLAGGING.

GPI Greenman-Pedersen, Inc.
Engineering & Construction Services
21 Daniel Street, Second Floor, Portsmouth, NH 03801
Tel: (603) 891-2213 Fax: (978) 658-3044
http://www.gpinet.com

Weston & Sampson
Weston & Sampson Engineers, Inc.
Five Centennial Drive, Peabody, MA 01960
978.532.1900 800.SAMPSON
www.westonandsampson.com



PREPARED FOR
DEPARTMENT OF PUBLIC
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CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801

IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS MAPLEWOOD AVENUE PORTSMOUTH, NH

REVISIONS		
NO.	REVISION	DATE

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DRAWN/DESIGN BY DPE/TLD CHECKED BY JPJ/LES
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CONSTRUCTION SEQUENCE (GENERAL)

1. PROVIDE A SCHEDULE, SEQUENCE OF INSTALLATION, AND MATERIAL SUBMITTALS TO THE OWNER FOR REVIEW AND APPROVAL. MARK OUT AND CALL IN DIG SAFE. PREPARE FOR A PRECONSTRUCTION MEETING TO BE HELD WITH THE NEIGHBORHOODS. THE PERSON IN RESPONSIBLE CHARGE FOR THE PROJECT SHOULD PLAN ON ATTENDING THE MEETING.
2. INSTALL AND MAINTAIN TEMPORARY EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PERIOD (INCLUDING WINTER SHUT DOWN PERIODS AS REQUIRED) AS SHOWN IN THE APPROVED SWPPP, ON THE DRAWINGS, OR AS APPROVED BY THE ENGINEER.
3. INSTITUTE EXPLORATORY EXCAVATION PROGRAM WITH ENGINEER TO IDENTIFY POTENTIAL CONFLICTS AT UTILITY CROSSINGS. ANY EXPLORATORY EXCAVATION COMPLETED OUTSIDE THE LIMITS SHOWN ON THE DRAWINGS WITHOUT PRIOR APPROVAL FROM THE ENGINEER WILL BE AT NO ADDITIONAL COST TO THE OWNER.
4. THIS PROJECT HAS BEEN DESIGNED TO BE CONSTRUCTED USING A TEMPORARY WATER MAIN SYSTEM. THE CITY GENERALLY EXPECTS THAT THE CONNECTIONS TO INDIVIDUAL HOMES WILL BE MADE UNDERGROUND AND NOT TO SILLCOCKS. HOOK UP, FLUSH AND CHLORINATE THE SYSTEM. AFTER A CHEMICAL TEST IS TAKEN BY THE CITY AND THE WATER IS PROVED TO BE ACCEPTABLE, TIE INS TO THE TEMPORARY SYSTEM CAN TAKE PLACE.
5. PROPOSED POND AND CDS UNIT SHALL BE INSTALLED PRIOR TO DRAINAGE/ SEWER SEPARATION BETWEEN MCGEE AND WOODBURY AVE. STORMWATER BMPS SHOULD BE STABILIZED BEFORE CONVEYING STORMWATER TO THEM.
6. DISPOSE OF SURPLUS AND UNSUITABLE MATERIALS AS THE WORK PROGRESSES. STOCKPILES WILL NOT BE ALLOWED ON SITE UNLESS APPROVED BY THE ENGINEER AHEAD OF TIME. EXCAVATED MATERIALS WILL BE LOADED INTO TRUCKS AND TAKEN AWAY AS WORK PROGRESSES IN ORDER TO KEEP THE ROAD PASSABLE.
7. CONTRACTOR IS TO MAINTAIN DRY AND STABLE TRENCH CONDITIONS AT ALL TIMES. A DE-WATERING PLAN MUST BE PROVIDED AND APPROVED BY THE ENGINEER.
8. IMMEDIATELY STABILIZE DISTURBED AREAS AFTER PIPE INSTALLATION AND REESTABLISH TEMPORARY EROSION CONTROL DEVICES MOVED DURING CONSTRUCTION.
9. REPAIR TRENCHES EACH NIGHT WITH EITHER RECLAIMED BASED (IF CONSTRUCTION PHASING ALLOWS), SUITABLE EXCAVATED SUBBASE OR CRUSHED GRAVEL. THE TRENCH(ES) SHALL BE FLAT AND COMPACTED FIRM EACH NIGHT. CONSTRUCT TEMPORARY PAVEMENT REPAIRS AS SOON AS PRACTICAL FOLLOWING UTILITY INSTALLATION AND TESTING.
10. RESTORE ROAD DRAINAGE AT NIGHT PRIOR TO LEAVING THE SITE.
11. FINISH GRADING, LOAM AND SEED DISTURBED AREAS AND BACK UP PAVEMENT WITH GRAVEL IMMEDIATELY FOLLOWING PAVEMENT REPAIRS.
12. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AS SOON AS VEGETATION IS ESTABLISHED AND AREAS ARE STABILIZED.

TRAFFIC MANAGEMENT NOTES

1. REFER TO SHEET 83 FOR STANDARD TRAFFIC CONTROL DETAILS.
2. ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), THE CURRENT NHDOT - "WORK ZONE TRAFFIC CONTROL STANDARD PLANS", THE STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
3. THE TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE REFERENCES LISTED IN NOTE NO. 2 AND AS APPROVED OR DIRECTED BY THE ENGINEER.
4. LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF THE CITY AND THE ENGINEER, LANE RESTRICTIONS MAY REMAIN OVERNIGHT. THE STREETS IN THE PROJECT AREA WILL BE PASSABLE AND SAFE IN THE OPINION OF THE ENGINEER PRIOR TO WORK TERMINATING AT THE END OF THE DAY.
5. THE CONTRACTOR SHALL MAINTAIN ONE PASSABLE LANE AND SAFE PASSAGE FOR RESIDENTS TO AND FROM THEIR DWELLINGS IN THE NEIGHBORHOODS. WORK THAT REQUIRES THE COMPLETE SHUT DOWN OF THE STREET HAS TO BE APPROVED BY THE ENGINEER PRIOR TO THE WORK COMMENCING.
6. WITH APPROVAL FROM THE ENGINEER, IT MAY BE POSSIBLE TO IMPLEMENT EITHER PARTIAL (ONE-WAY) OR FULL (TWO-WAY) DETOURS ALONG PORTIONS OF MAPLEWOOD AVENUE IN ORDER TO EXPEDITE/FACILITATE CONSTRUCTION. POTENTIAL SEGMENTS OF MAPLEWOOD AVENUE TO DETOUR COULD BE FROM:
 - WOODBURY AVENUE TO EDMOND AVENUE
 - EDMOND AVENUE TO CUTTS STREET/ROUTE 1 BYPASS
 IN ALL CASES, ACCESS FOR RESIDENTS MUST ALWAYS BE MAINTAINED.

ROAD WORK NOTES

1. WORK ZONES SHALL BE LIMITED TO SEGMENTS OF THE PROJECT NO LONGER THAN 2,000' IN LENGTH. MULTIPLE WORK ZONES MAY BE APPROVED BY THE ENGINEER PROVIDED THEY ARE SEPARATE AND DISTINCT. REFER TO SECTION 0110 - SUMMARY CONTAINED WITHIN THE CONTRACT DOCUMENTS FOR A SUMMARY OF PROJECT REQUIREMENTS.
2. EXISTING SIDEWALKS SHALL BE MAINTAINED PROVIDED THEY DO NOT CONFLICT WITH THE WORK ZONE. IF A SIDEWALK IS NOT PASSABLE, OR A PORTION IS WITHIN A WORK ZONE, THE SIDEWALK SHALL BE SIGNED AS CLOSED IN ADVANCE SO THAT A PEDESTRIAN CAN CHOOSE AN ALTERNATIVE ROUTE.
3. AFTER THE INSTALLATION OF UTILITIES, EXISTING GRANITE CURBING SHALL BE REMOVED AND ANY PIECES 3.5' OR LONGER SHALL BE RETAINED FOR REUSE ON THE PROJECT.
4. IT IS THE INTENT OF THIS PROJECT TO RECLAIM THE EXISTING ASPHALT AFTER THE INSTALLATION OF ALL UTILITY WORK AND ROADWAY WIDENING. UTILITY TRENCHES SHALL BE REPAIRED AS PER THE CONTRACT DOCUMENTS TO PREVENT THE CONTAMINATION OF THE PAVEMENT BASE MATERIAL AND ENSURE SATISFACTORY MATERIAL FOR RECLAIM.
5. WHEREVER THE VERTICAL PROFILE OF THE ROADWAY IS MAINTAINED OR INCREASED, THE RECLAIMED MATERIAL WILL REMAIN IN-PLACE. RECLAIMED MATERIAL SHALL BE REMOVED TO ACCOUNT FOR THE DEPTH OF THE PAVEMENT LAYERS WHILE ENSURING THAT A MINIMUM OF 8" OF RECLAIMED STABILIZED BASE IS LEFT IN PLACE.
6. IN AREAS WHERE THE VERTICAL PROFILE IS CUT, RECLAIMED MATERIAL WILL BE REMOVED AND REHANDLED, THE SUB BASE WILL BE GRADED TO ACHIEVE THE PROPER CROWN/GRADE AND THE RECLAIMED STABILIZED BASE WILL BE RETURNED AND PLACED ON THE PREPARED ROADBED TO THE DEPTHS SPECIFIED.
7. WHEN NECESSARY, STONE FOR BLENDING WILL BE APPLIED TO THE RECLAIMED SURFACE AND RE-BLENDED WITH THE PREVIOUSLY RECLAIMED MATERIAL TO MEET THE REQUIRED RECLAIMED STABILIZED BASED GRADATION.
8. WINDROWED OR GRADED RECLAIM PAVEMENT BORROW SHALL BE USED ON THE PROJECT UNDER WALKS, DRIVES, ISLANDS AND FOR LEVELING. REMOVAL OF EXCESS RECLAIMED BASE MATERIAL IS SUBSIDIARY TO RECLAIMED STABILIZED BASE.
9. ALL EXISTING SUITABLE GRANITE CURBING REMOVED WITHIN THE PROJECT LIMITS WILL BE REUSED FIRST. ADDITIONAL GRANITE WILL BE PURCHASED TO MAKE UP THE DIFFERENCE.
10. ALL PUBLIC SIDEWALKS AND ALL CURB RAMPS WILL BE CEMENT CONCRETE. WALKWAYS TO HOUSES WILL MATCH EXISTING UNLESS OTHERWISE DIRECTED. USE HAND METHOD ASPHALT, CONCRETE SIDEWALK OR 608 SERIES CONTRACT ITEMS AS APPROPRIATE.
11. ALL DRIVEWAYS SHALL RECEIVE TWO LAYERS OF ASPHALT AS CALLED FOR IN THE PAVEMENT NOTES. DO NOT REMOVE OR PAVE DRIVEWAYS BEYOND THE PROPERTY LINE UNLESS DEPICTED IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE ENGINEER.
12. ALL FULL DEPTH ROAD PAVING ALONG MAPLEWOOD AVENUE WILL BE PLACED AT A TOTAL OF AT LEAST 5.5" THICK. DO NOT EXCEED 5.5" UNLESS DIRECTED BY THE ENGINEER TO DO SO. FULL DEPTH ROAD PAVING ALONG THE SIDE STREETS WILL BE PLACED AT A TOTAL OF AT LEAST 4" THICK. DO NOT EXCEED 4" ON SIDE STREETS UNLESS DIRECTED BY THE ENGINEER TO DO SO. MIX DESIGNS FOR ALL PAVEMENTS WILL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE CONTRACT AND THE NHDOT STANDARD SPECIFICATIONS AND ALL MIX DESIGNS WILL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR. ANY PAVEMENT PLACING OF 100 TONS OR MORE WILL BE COORDINATED FOR PAVEMENT TESTING AND INSPECTION.
13. ALL SIDEWALKS WILL BE CONSTRUCTED TO ADA STANDARDS AND CROSS SLOPES SHALL NOT EXCEED 2%.
14. PAVEMENT WILL NOT BE PLACED AT SURFACE TEMPERATURES COLDER THAN 40 DEGREES F FOR BINDER COURSE OR 50 DEGREES F FOR WEARING COURSE. IF PAVING IS ALLOWED, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPACT THE ASPHALT PROPERLY BEFORE IT SETS.
15. CONCRETE SIDEWALKS WILL NOT BE POURED IF FREEZING TEMPERATURES ARE EXPECTED WITHIN 24 HOURS. ALL CONCRETE SIDEWALKS WILL BE COVERED WITH PLASTIC FILM FOR 3 DAYS AFTER PLACEMENT. PLASTIC WILL BE PROPERLY SECURED AS NOT TO BLOW OFF.
16. PUBLIC SAFETY IS A PRIORITY. THE CONTRACTOR WILL SUPPLY THE PROPER HAZARD WARNINGS AS ADVISED. IT IS THE DUTY OF THE CONTRACTOR'S SAFETY COORDINATOR TO PREVENT PERSONAL INJURY AND/OR DAMAGES TO THE RESIDENTS.
17. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES, BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF OF THE SUSPECT MATERIAL TO AVOID FURTHER CONTAMINATION OF ADJACENT MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY, SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN USING CONTRACT ITEMS 1001.101 - 1001.106.
18. THE TERM TO "MEET EXISTING" SHALL MEAN TO MEET BOTH THE EXISTING ALIGNMENT AND ELEVATION.

EROSION & SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROLS SHALL MEET THE REQUIREMENTS OF THE NH STORMWATER MANUAL, VOLUME 3, EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION, 2008.
2. THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:55 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
3. INSTALL COMPOST SOCK (OR OTHER APPROVED EQUAL) AS SHOWN ON THE CONSTRUCTION DETAILS. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
4. PRIOR TO CONSTRUCTION INSTALL SILT SACKS IN EXISTING CATCH BASINS TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
5. THE SMALLEST PRACTICABLE AREA SHALL BE DISTURBED DURING CONSTRUCTION, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
6. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF INCH OF RAINFALL.
7. THE ENTIRE PROJECT AREA SHALL BE SWEEPED UPON COMPLETION OF CONSTRUCTION AND PRIOR TO REMOVAL OF THE EROSION CONTROL DEVICES.
8. THE CONTRACTOR SHALL COMPLY WITH THE GENERAL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS AS SHOWN ON THESE PLANS.
9. ALL AREAS DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE RESTORED TO A MINIMUM OF 6" OF TOPSOIL, GRASS SEED, FERTILIZER AND MULCH UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL CLEAN OUT ALL DRAINAGE STRUCTURES IDENTIFIED FOR INSTALLATION OF SILT SACKS DURING CONSTRUCTION, UPON COMPLETION OF WORK.
11. AN AREA SHALL BE CONSIDERED STABLE ONCE BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED, A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED, A MINIMUM OF 3" OF NON-EROSIVE MATERIAL, SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED OR EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
12. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
13. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
14. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
15. ALL INCOMPLETE ROADWAY SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER, SHALL BE PROTECTED WITH A MINIMUM OF 4" OF "WINTER" BINDER.
16. A NPDES PERMIT FOR CONSTRUCTION ACTIVITIES IS REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS REQUIRED TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND TO SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA TO FULFILL PROJECT REQUIREMENTS. THE SWPPP MUST BE PREPARED IN ACCORDANCE WITH THE EPA'S REQUIREMENTS. NO WORK IS TO PROCEED UNTIL THE SWPPP AND THE NOI IS SUBMITTED AND ACCEPTED BY THE OWNER. A COPY OF THE NOI, SWPPP REQUIREMENTS, AND EXAMPLE SWPPP ARE INCLUDED IN THE PROJECT MANUAL APPENDIX.
17. EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE:
 - a. INSTALL SILT FENCE AND INLET PROTECTION AS SHOWN.
 - b. PERFORM PROJECT IMPROVEMENTS.
 - c. STABILIZE ALL DISTURBED AREAS.
 - d. ONCE THE SITE HAS BEEN STABILIZED, REMOVE ALL TEMPORARY EROSION CONTROLS.



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CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801

IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH

REVISIONS		
NO.	REVISION	DATE

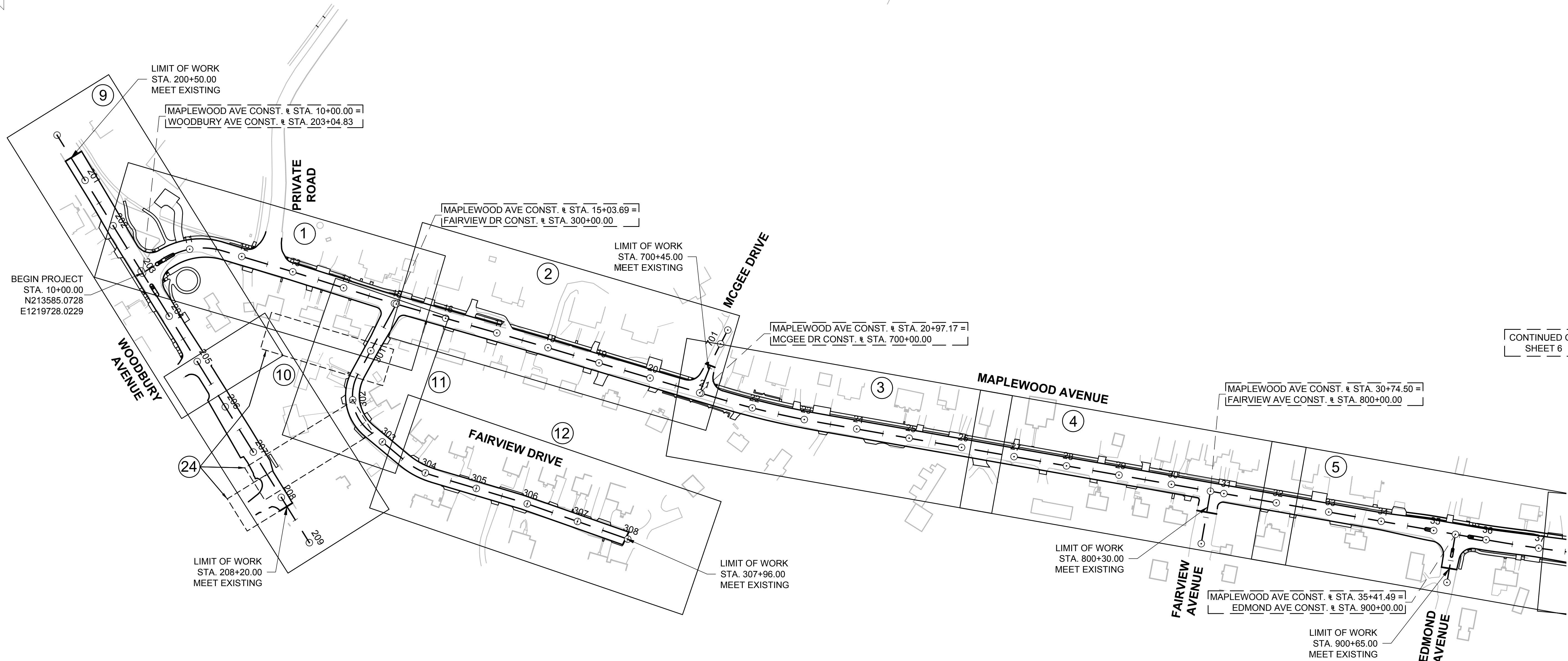
GENERAL NOTES

SCALE: N.T.S.

2015086.00

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SHEET REFERENCE	1	2	3	4	5	9	10	11	12	24
DRAWING TITLE	DRAWING NUMBER									
ROADWAY PLAN & PROFILE	14	15	16	17	18	22	23	24	25	-
UTILITY PLAN & PROFILE	39	40	41	42	43	47	48	49	50	61
PAVEMENT MARKING & SIGNING PLANS	65	65	66	66	67	69	69	-	-	-



CONTINUED ON SHEET 6

GPI Greenman-Pedersen, Inc.
 Engineering & Construction Services
 21 Daniel Street, Second Floor, Portsmouth, NH 03801
 Tel: (603) 891-2213 Fax: (978) 658-3044
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 Five Centennial Drive, Peabody, MA 01960
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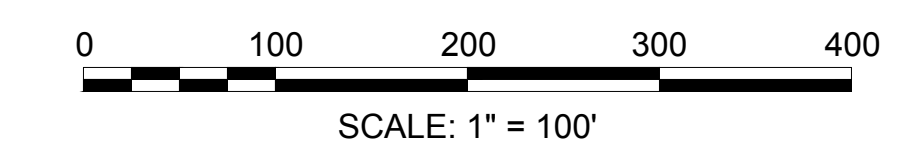
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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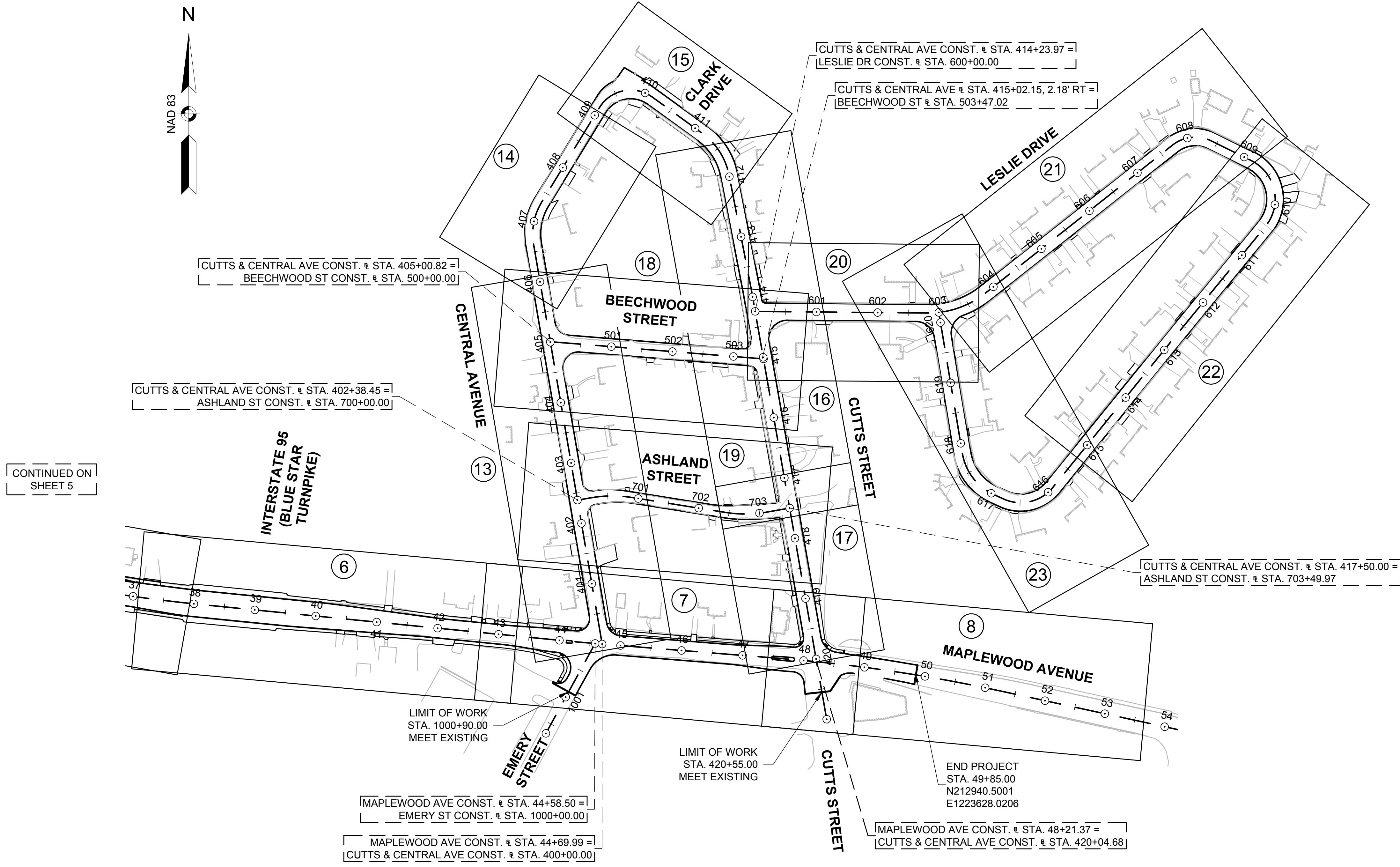
1/18/2018
 DRAWN/DESIGN BY: DPE CHECKED BY: JPJ

KEY PLAN

SCALE:
 1" = 100'
 2015086.00



SHEET REFERENCE	6	7	8	13	14	15	16	17	18	19	20	21	22	23
DRAWING TITLE	DRAWING NUMBER													
ROADWAY PLAN & PROFILE	19	20	21	26	27	27	28	29	30	31	32	33	34	35
UTILITY PLAN & PROFILE	44	45	46	51	52	52	53	54	55	56	57	58	59	60
PAVEMENT MARKING & SIGNING PLANS	67	68	68	70	70	70	71	71	-	-	71	-	-	-



CONTINUED ON
SHEET 5



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680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: DPE CHECKED BY: JPJ

KEY PLAN

SCALE:
1" = 100'
2015086.00



PAVEMENT NOTES

FULL DEPTH HOT BITUMINOUS PAVEMENT WITH RECLAIMED BASE (MAPLEWOOD AVE)

SURFACE: ITEM 403.11 HOT BITUMINOUS PAVEMENT, MACHINE METHOD
 1 1/2" WEARING COURSE
 4" BINDER COURSE, TO BE PLACED IN 2 LAYERS
 8" RECLAIMED STABILIZED BASE

FULL DEPTH HOT BITUMINOUS PAVEMENT WITH RECLAIMED BASE (SIDE STREETS)

SURFACE: ITEM 403.11 HOT BITUMINOUS PAVEMENT, MACHINE METHOD
 1 1/2" WEARING COURSE
 2 1/2" BINDER COURSE
 8" RECLAIMED STABILIZED BASE

HOT BITUMINOUS PAVEMENT OVERLAY

SURFACE: ITEM 403.11 HOT BITUMINOUS PAVEMENT, MACHINE METHOD
 1 1/2" COLD PLANING
 1 1/2" WEARING COURSE
TACK COAT: EMULSIFIED ASPHALT FOR TACK COAT

FULL DEPTH WIDENING

SURFACE: ITEM 403.11 HOT BITUMINOUS PAVEMENT, MACHINE METHOD
 1 1/2" WEARING COURSE
 4" BINDER COURSE, TO BE PLACED IN 2 LAYERS
 8" REHANDLED RECLAIMED STABILIZED BASE
 12" GRAVEL BASE OR REHANDLED RECLAIMED STABILIZED BASE

HOT BITUMINOUS PAVEMENT DRIVEWAY:

SURFACE: ITEM 403.12 HOT BITUMINOUS PAVEMENT, HAND METHOD
 1" WEARING COURSE
 2" BINDER COURSE

SUBBASE: 8" CRUSHED GRAVEL, ITEM 304.301

BRICK ISLAND:

SURFACE: BRICK SURFACE, ITEM 608.6
BASE: 4" MANUFACTURED SAND SETTING BED
 6" CRUSHED GRAVEL, ITEM 304.301
SUBBASE: 12" GRAVEL (F), ITEM 304.2

CONCRETE SIDEWALK

SURFACE: 4" CEMENT CONCRETE
SUBBASE: 8" CRUSHED GRAVEL, ITEM 304.301

CONCRETE CURB RAMP

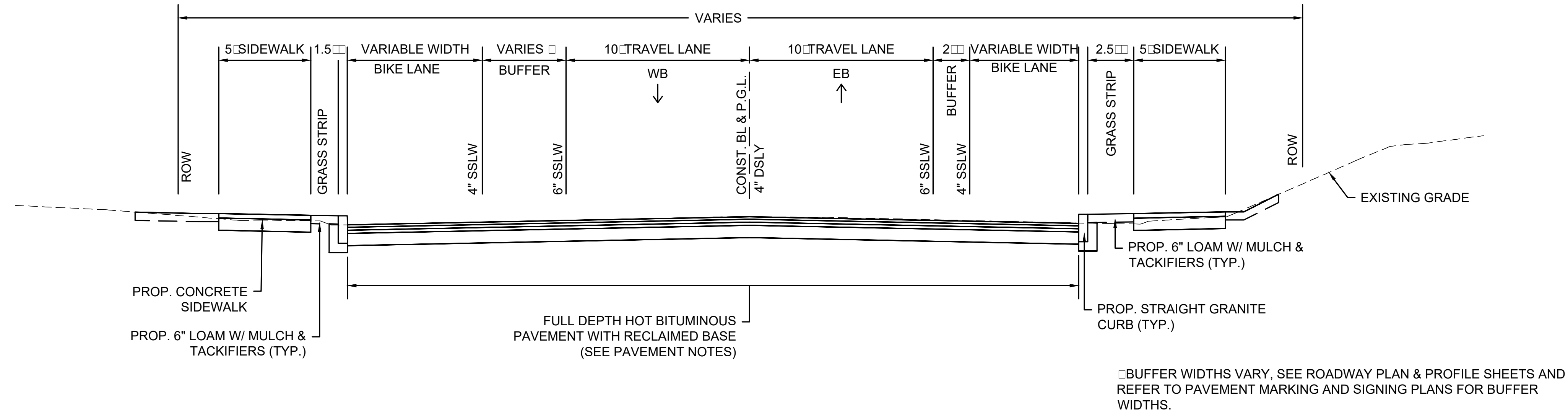
SURFACE: 6" REINFORCED CEMENT CONCRETE
SUBBASE: 8" CRUSHED GRAVEL, ITEM 304.301

BITUMINOUS WALK

SURFACE: 3" WEARING COURSE, TO BE PLACED IN 2 LAYERS
SUBBASE: 8" CRUSHED GRAVEL, ITEM 304.301

NOTES:

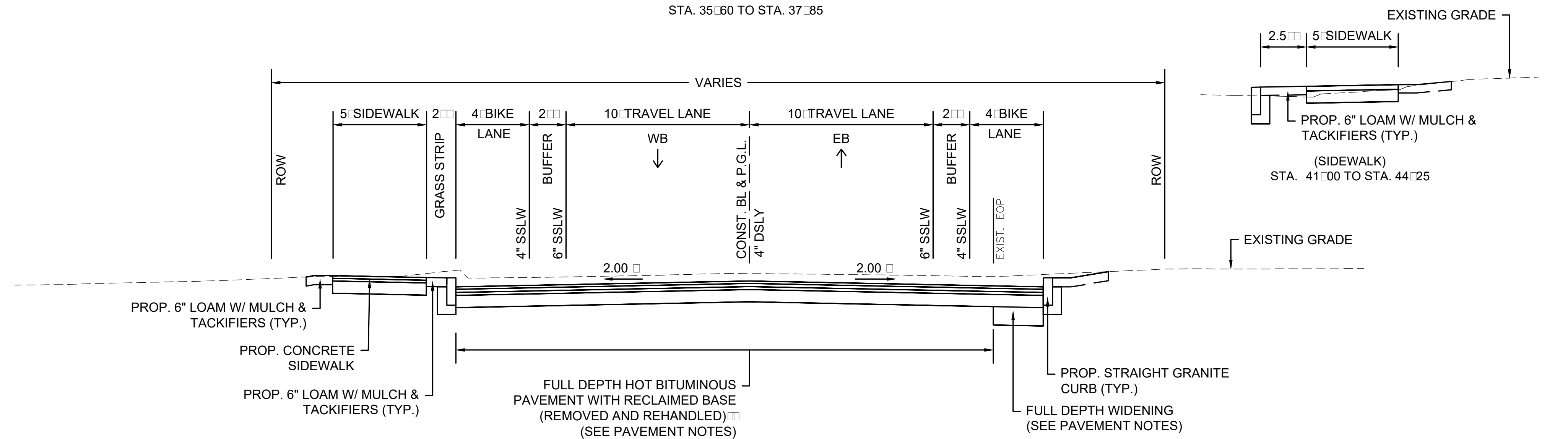
- THE SECTIONS OF PROPOSED ROADWAY NOT COVERED IN THE RANGE OF STATIONS ASSOCIATED WITH THE TYPICAL SECTIONS ARE IN AREAS OF TRANSITION AND THEREFORE NOT COVERED.
- ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT THE RATE OF 0.03 GALLONS PER SQUARE YARD OVER SMOOTH SURFACES AND 0.05 GALLONS PER SQUARE YARD OVER COLD PLANED SURFACES PER SUPPLEMENTAL SPECIFICATION FOR SECTION 410.
- PROPOSED SIDEWALK WIDTHS MAY VARY SLIGHTLY FROM DIMENSIONS SHOWN ON THE TYPICAL SECTIONS AND CONSTRUCTION PLANS. WHERE CURBING, WALLS, ETC. ARE LOCATED ALONG THE FRONTAGE OF A PROPERTY, THE SIDEWALK WIDTH SHALL BE ADJUSTED TO MEET.
- ALL SIDEWALKS SHALL PROVIDE MINIMUM 36 INCH CLEARANCE AROUND POINT OBSTRUCTIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER WHEN THIS MINIMUM REQUIREMENT CANNOT BE MET FOR RESOLUTION.
- ALL PROPOSED SIDEWALKS SHALL BE CONCRETE, UNLESS SPECIFICALLY NOTED ON THE ROADWAY AND PROFILE PLANS TO BE BITUMINOUS. ALL CURB RAMPS SHALL BE CONCRETE.
- ALL SIDE SLOPES TO BE ESTABLISHED WITH TURF SHALL BE 3:1 MAX. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- RECLAIMED STABILIZED BASE SHALL COMPLY WITH NHDOT SECTION 306.
- RECLAIMED MATERIAL TO BE TESTED TO DETERMINE IF ADDITIONAL STONE WILL BE REQUIRED FOR BLENDING.
- AT WIDENED AREAS, CRUSHED GRAVEL (ITEM 304.301) SHALL BE USED IF REHANDLED RECLAIM QUANTITY IS NOT AVAILABLE.
- PROVIDE 2' WIDE CRUSHED GRAVEL (ITEM 304.301) SHOULDER WHERE GRANITE CURB OR EDGING IS NOT PROPOSED.
- EXCESS RECLAIMED BASE MATERIAL SHALL BE USED ON THE PROJECT UNDER WALKS, DRIVES, ISLANDS AND FOR LEVELING. REMOVAL OF EXCESS RECLAIMED BASE MATERIAL IS SUBSIDIARY TO RECLAIMED STABILIZED BASE.
- FULL DEPTH RECLAMATION SHALL BE 14 INCHES ALONG MAPLEWOOD AVENUE AND 12 INCHES ALONG THE SIDE STREETS. RECLAIMED BASE MATERIAL SHALL BE GRADED AND COMPACTED TO 8 INCHES MINIMUM PER LINES AND GRADES ON PLANS.



TYPICAL SECTION - MAPLEWOOD AVENUE

SCALE: 1" = 4'

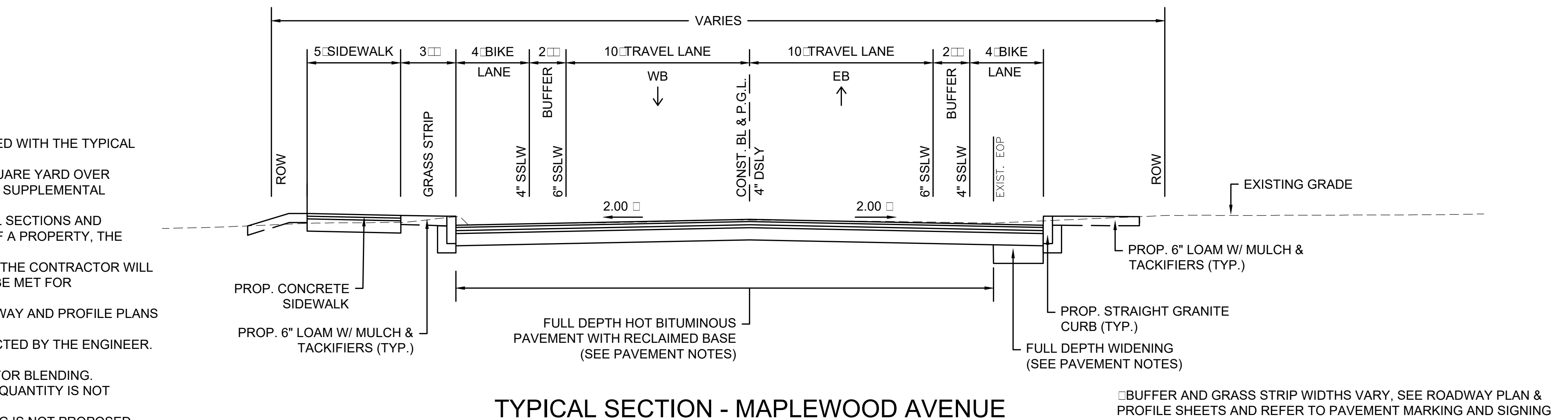
STA. 35+60 TO STA. 37+85



TYPICAL SECTION - MAPLEWOOD AVENUE

SCALE: 1" = 4'

STA. 12+50 TO STA. 17+50
 STA. 21+00 TO STA. 23+50
 STA. 41+00 TO STA. 46+00



TYPICAL SECTION - MAPLEWOOD AVENUE

SCALE: 1" = 4'

STA. 10+00 TO STA. 12+50
 STA. 17+50 TO STA. 21+00
 STA. 23+50 TO STA. 35+60
 STA. 46+00 TO STA. 48+50

□ BUFFER WIDTHS VARY, SEE ROADWAY PLAN & PROFILE SHEETS AND REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR BUFFER WIDTHS.

□ BUFFER AND GRASS STRIP WIDTHS VARY, SEE ROADWAY PLAN & PROFILE SHEETS AND REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR BUFFER WIDTHS.

□ GIVEN THE CHANGE IN PROFILE WITHIN THESE LIMITS, RECLAIMED BASE WILL NEED TO BE REMOVED AND REHANDLED.

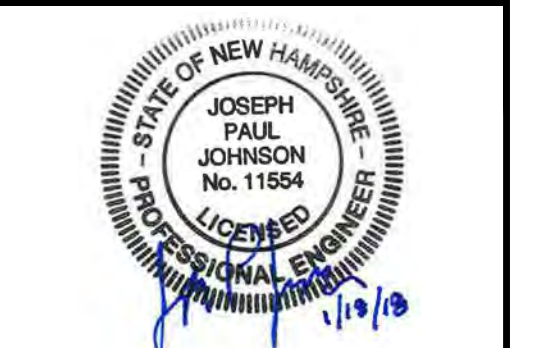
□ BUFFER AND GRASS STRIP WIDTHS VARY, SEE ROADWAY PLAN & PROFILE SHEETS AND REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR BUFFER WIDTHS.



SCALE 1" = 4'

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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: DPE CHECKED BY: JPJ

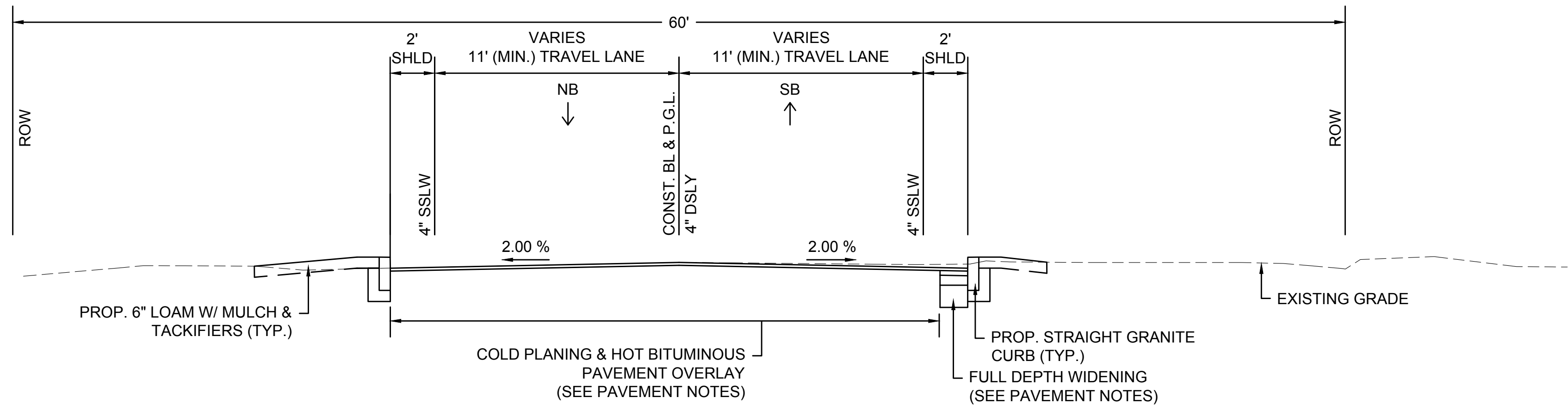
TYPICAL SECTIONS

SCALE: 1" = 4'
 2015086.00
 7 OF 184

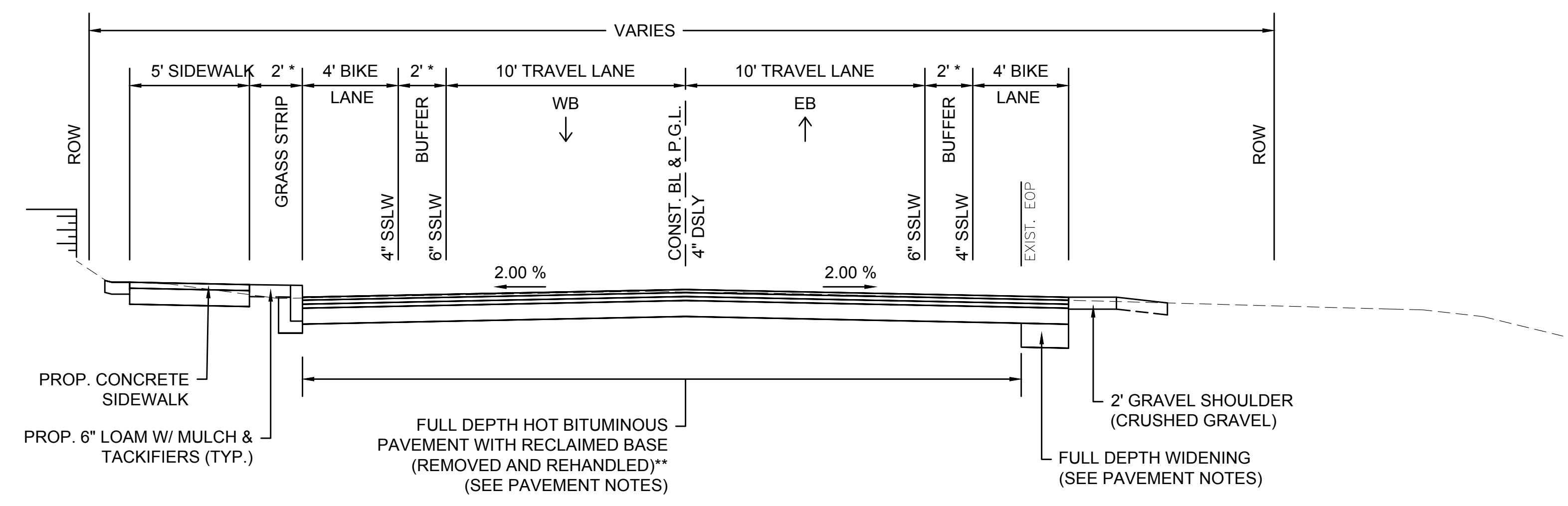


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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



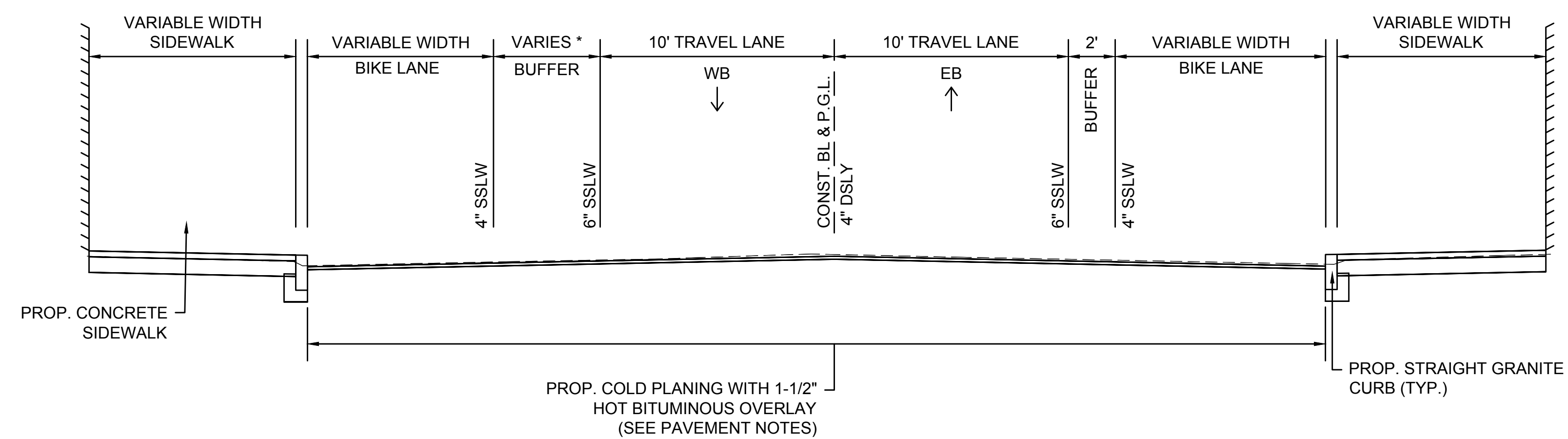
TYPICAL SECTION - WOODBURY AVENUE
 SCALE: 1" = 4'



TYPICAL SECTION - MAPLEWOOD AVENUE
 SCALE: 1" = 4'

STA. 45+00 TO STA. 47+00

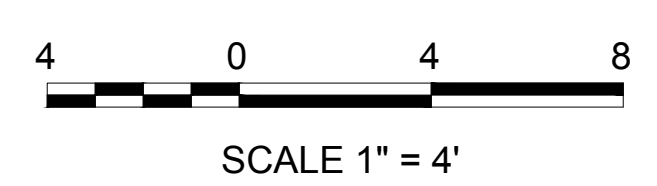
* BUFFER AND GRASS STRIP WIDTHS VARY, SEE ROADWAY PLAN & PROFILE SHEETS AND REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR BUFFER WIDTHS.
 ** GIVEN THE CHANGE IN PROFILE APPROX. FROM STA. 45+00 TO STA. 46+50, RECLAIMED BASE WILL NEED TO BE REMOVED AND REHANDLED.



TYPICAL SECTION - MAPLEWOOD AVENUE
 SCALE: 1" = 4'

STA. 37+85 TO STA. 41+00

* BUFFER WIDTHS VARY, SEE ROADWAY PLAN & PROFILE SHEETS AND REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR BUFFER WIDTHS.



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1/18/2018
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TYPICAL SECTIONS

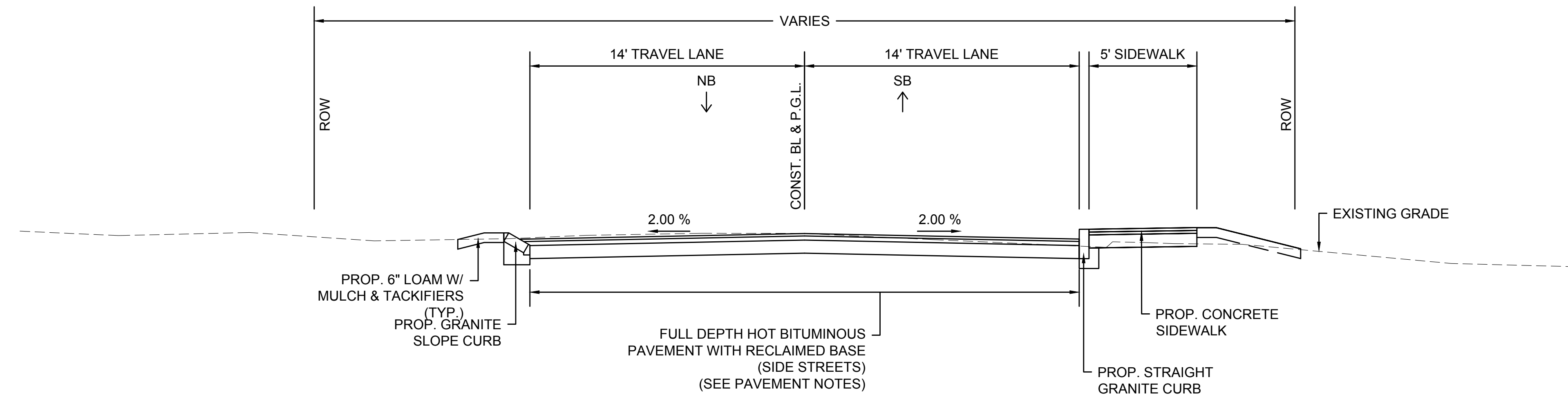
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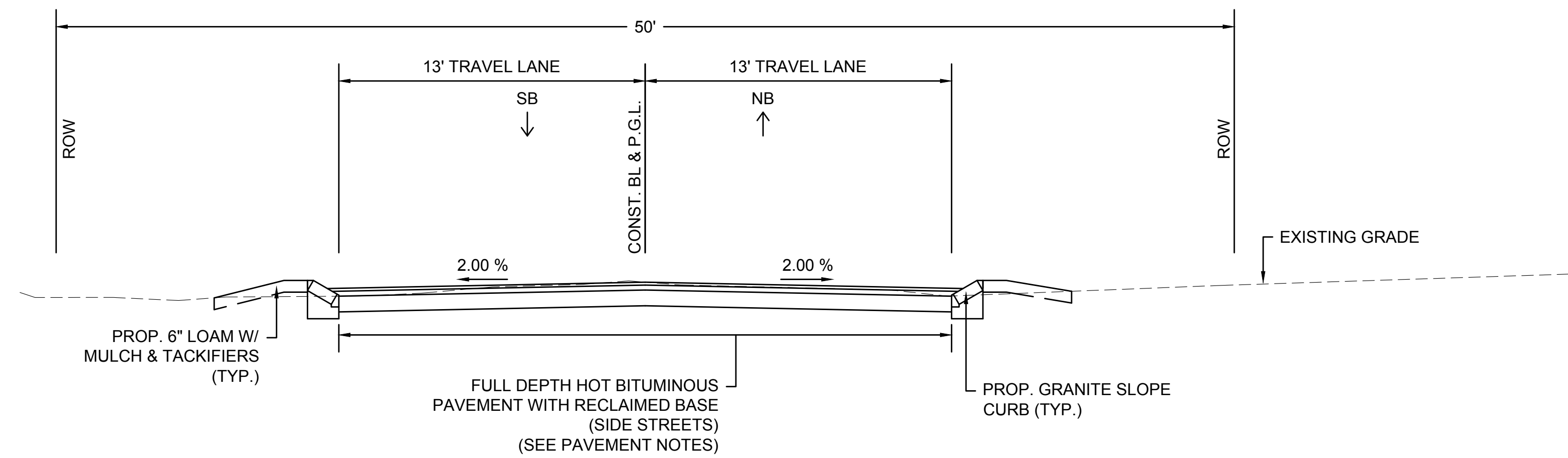


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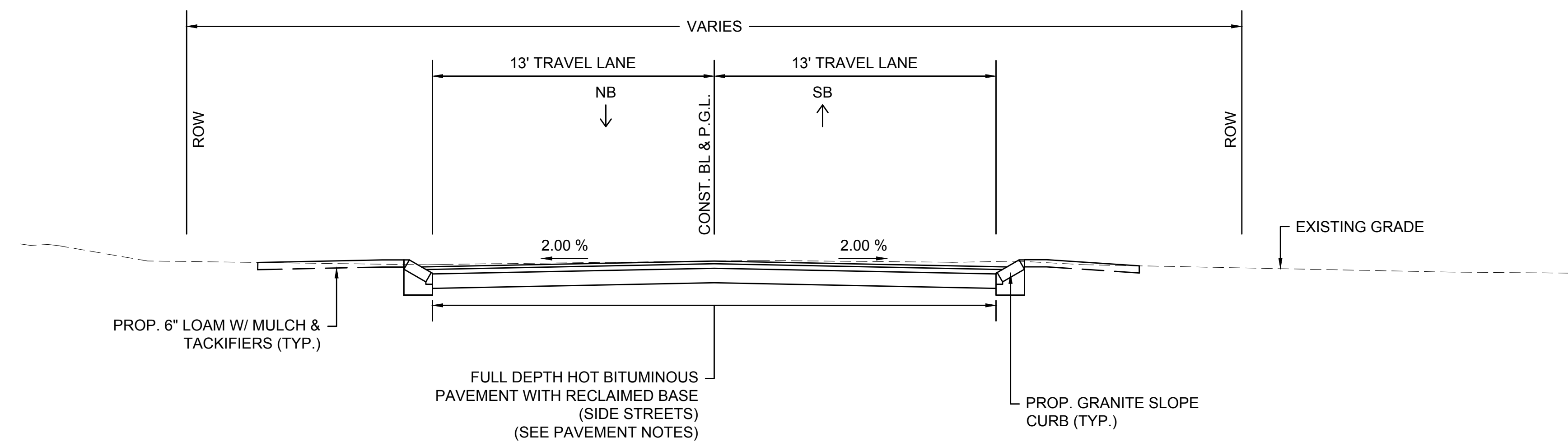
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



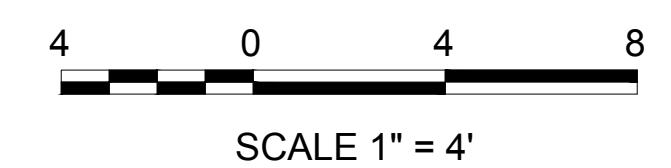
TYPICAL SECTION - CUTTS STREET
 SCALE: 1" = 4'



TYPICAL SECTION - CENTRAL AVENUE
 SCALE: 1" = 4'



TYPICAL SECTION - FAIRVIEW DRIVE
 SCALE: 1" = 4'



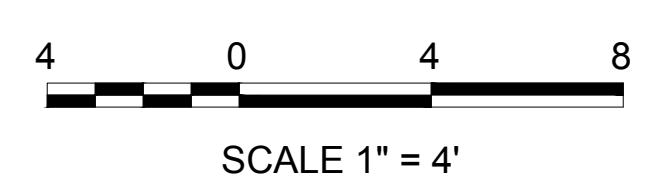
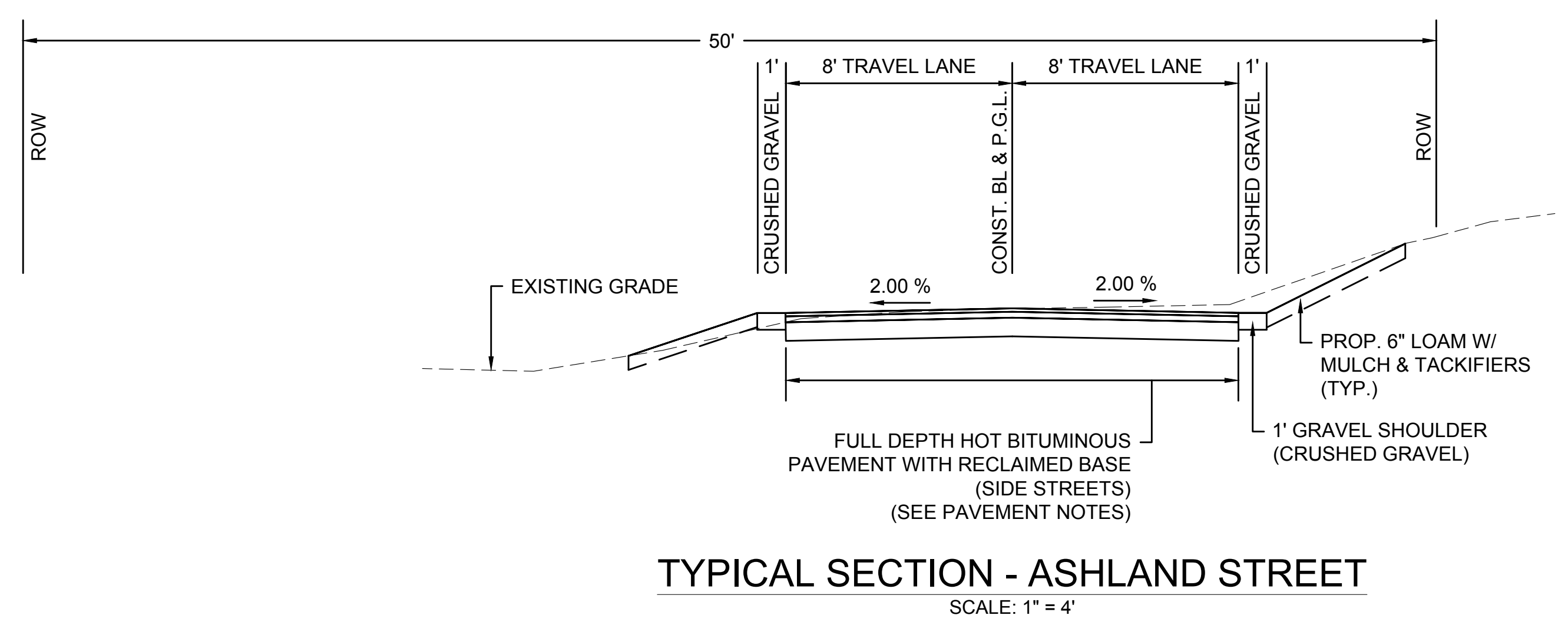
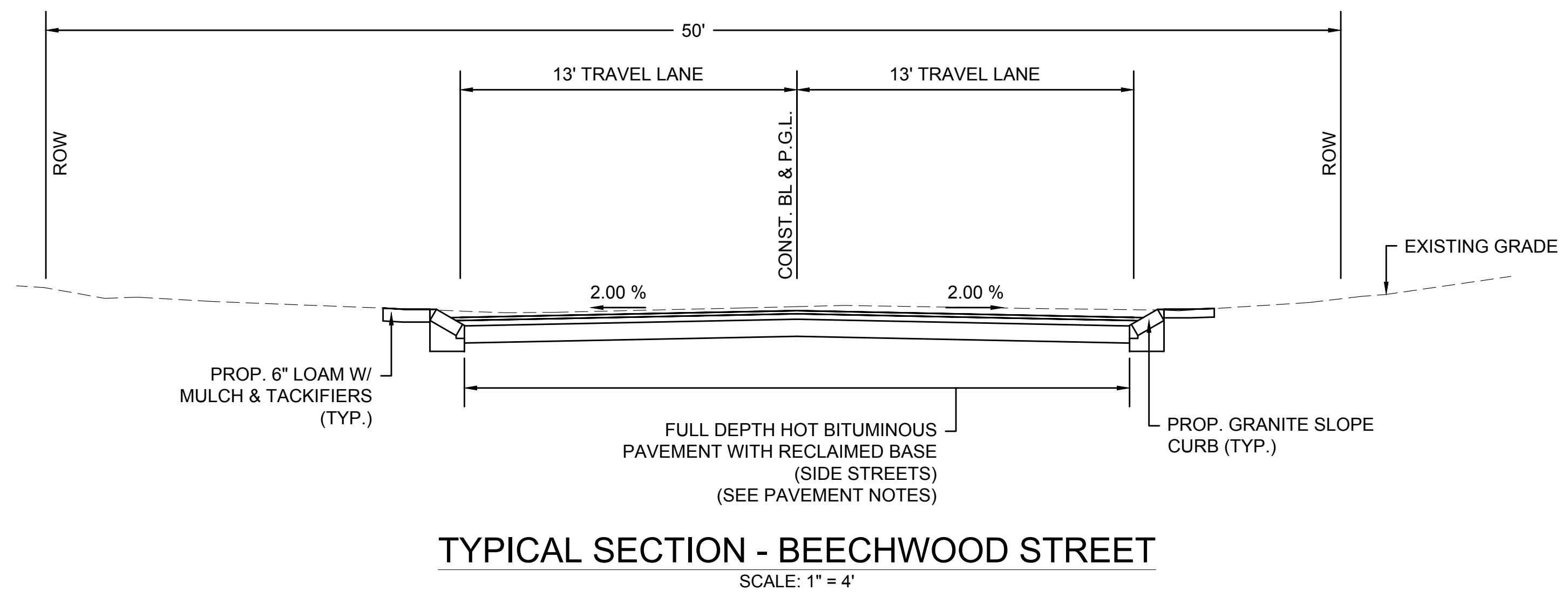
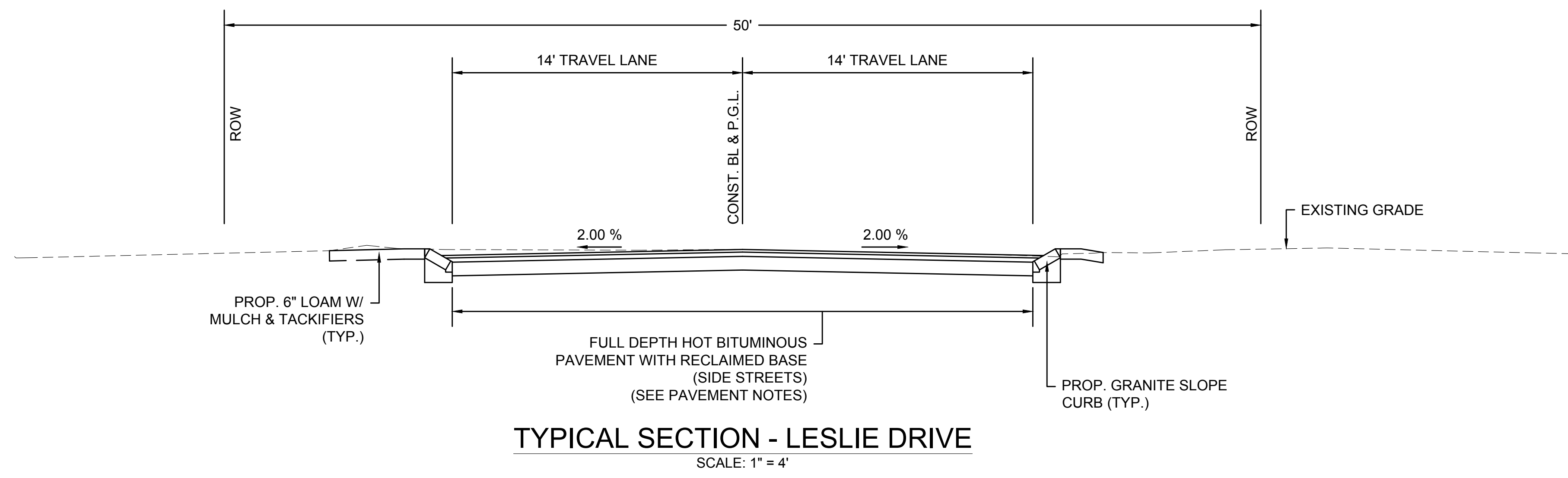
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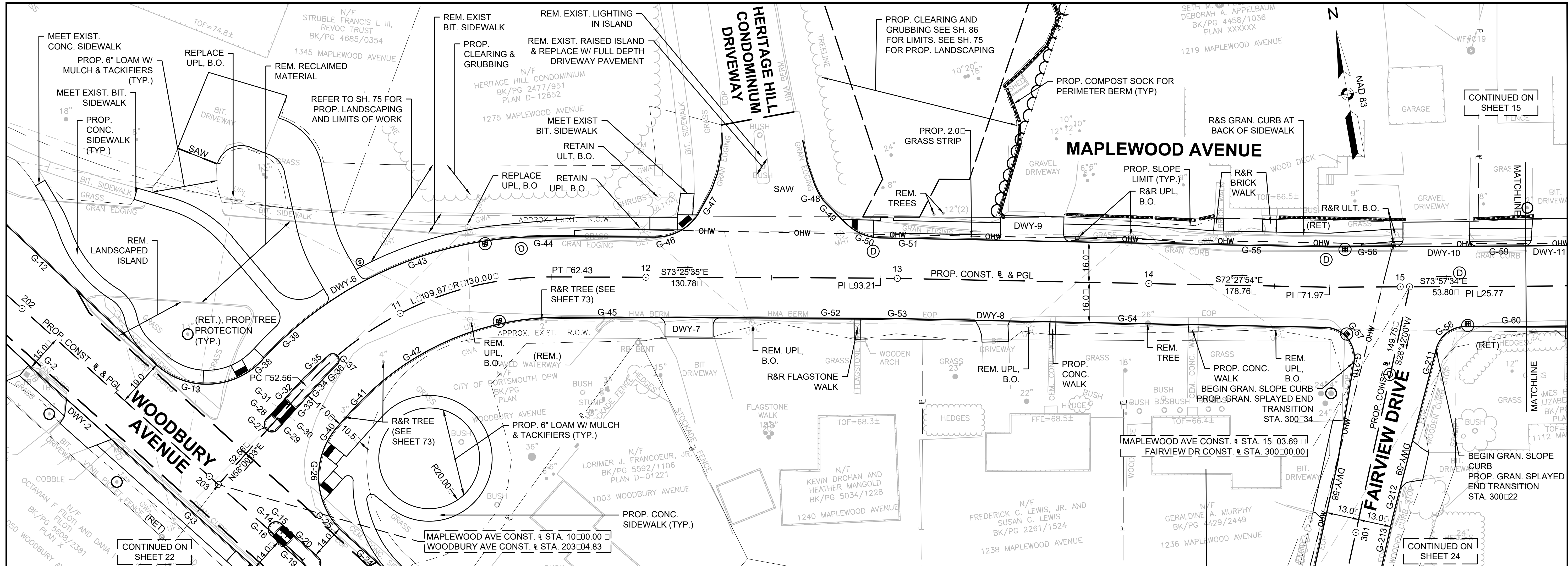
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



REVISIONS		
NO.	REVISION	DATE

**TYPICAL
 SECTIONS**

SCALE:
 1"=4'
 2015086.00
 10 OF 184



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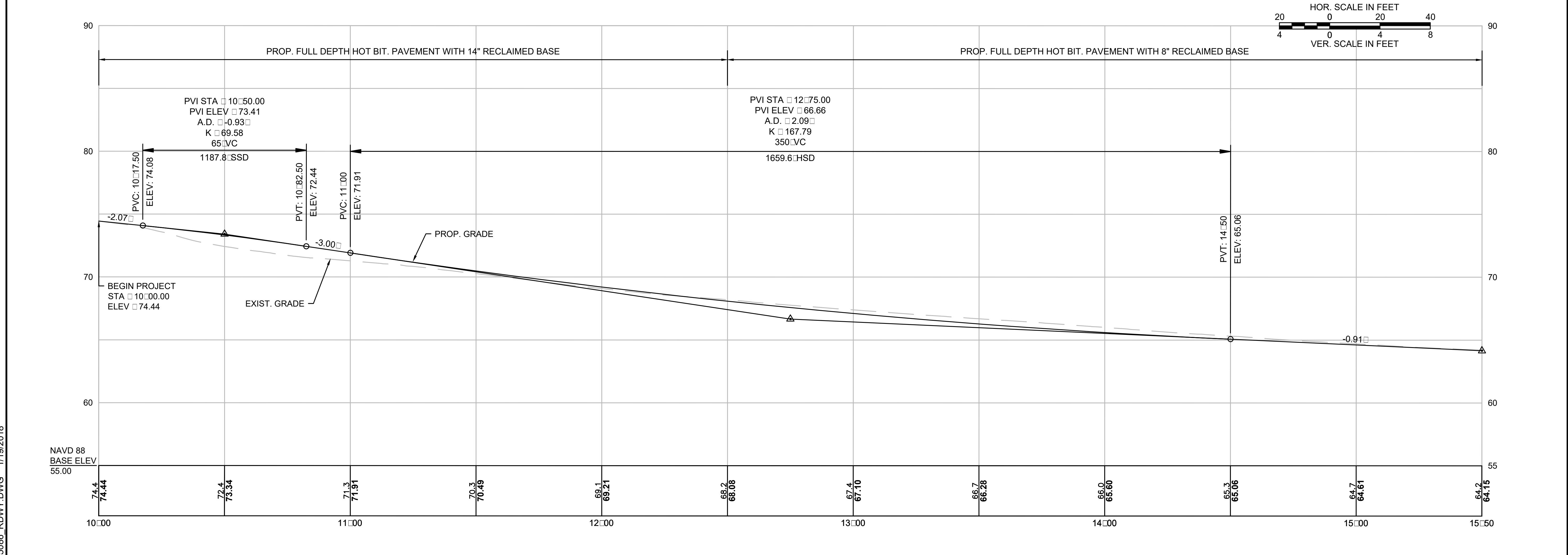
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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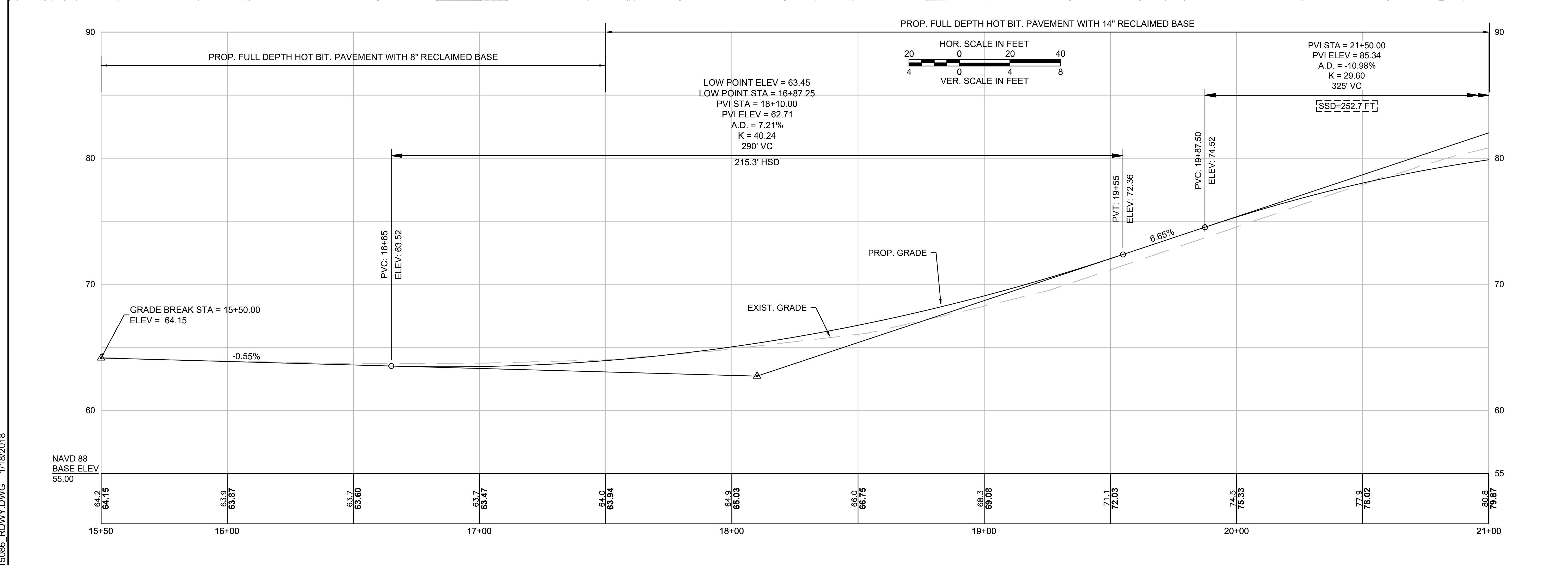
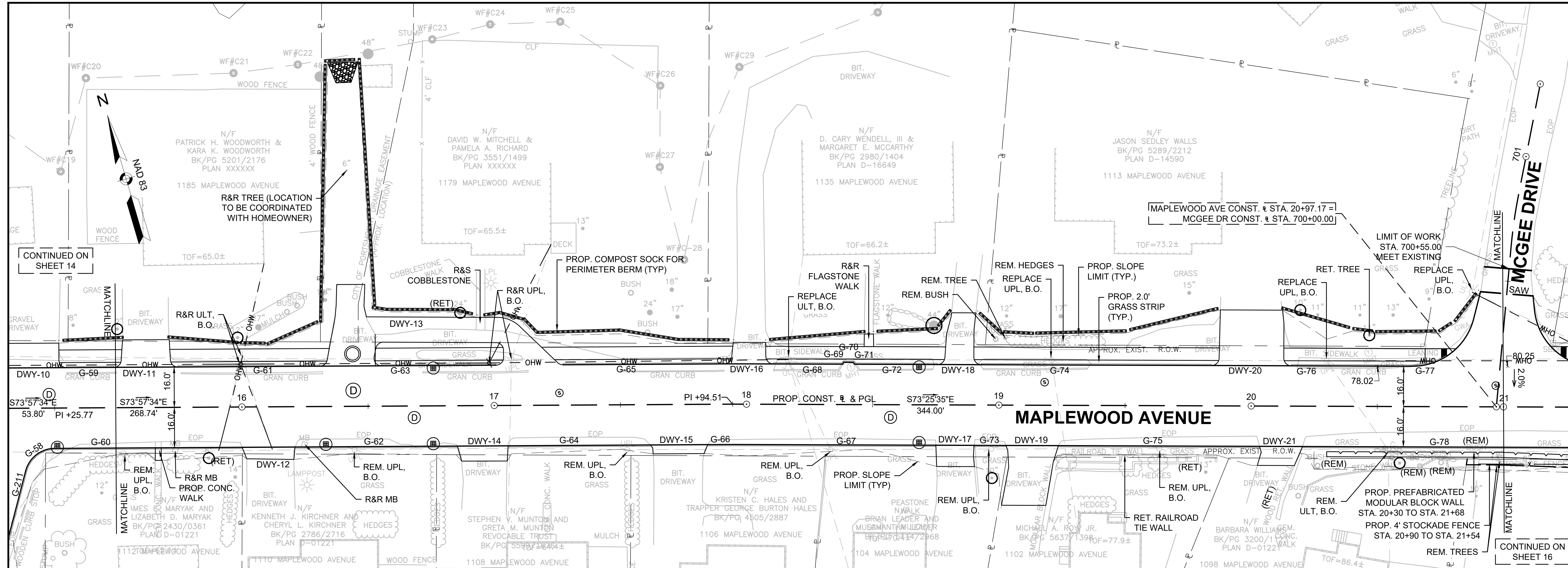
1/18/2018
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ROADWAY PLAN & PROFILE - MAPLEWOOD AVENUE

SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'
 2015086.00

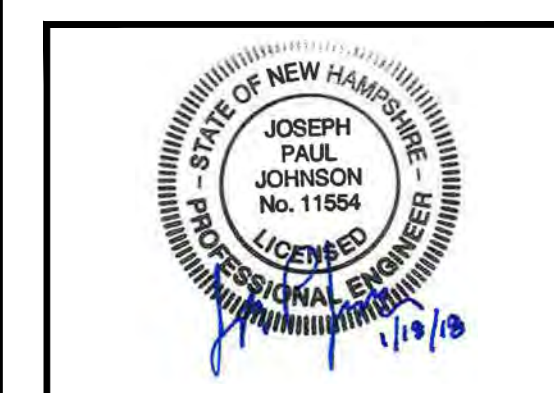


15086 RDWY.DWG 1/19/2018



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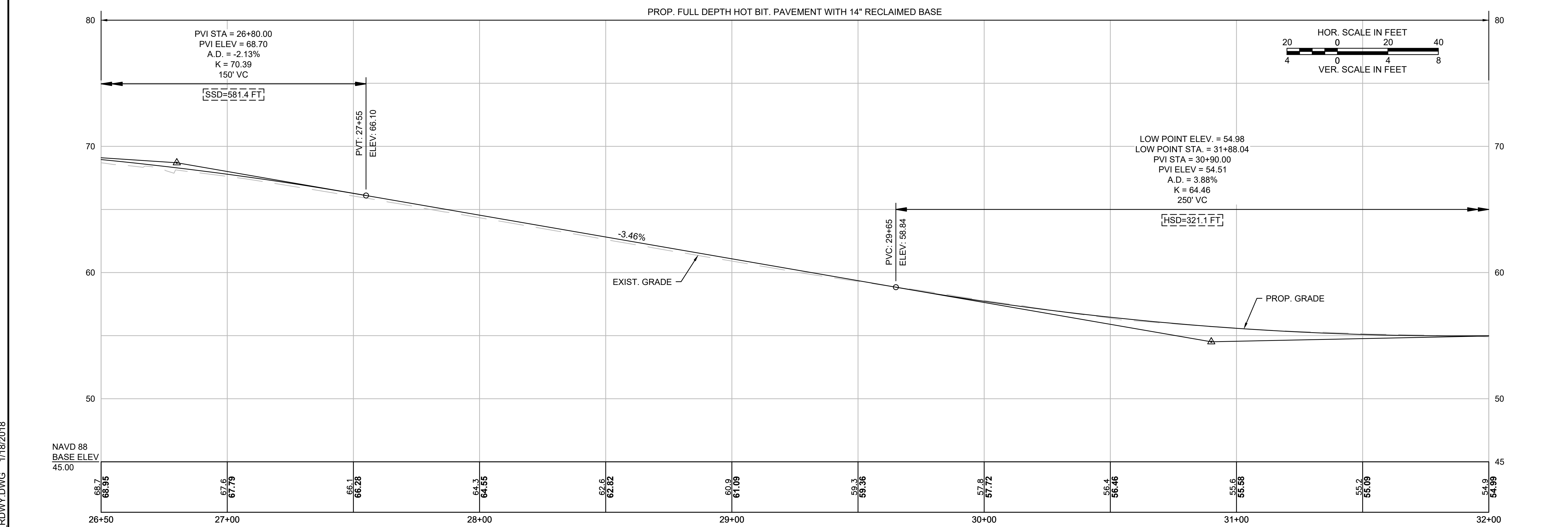
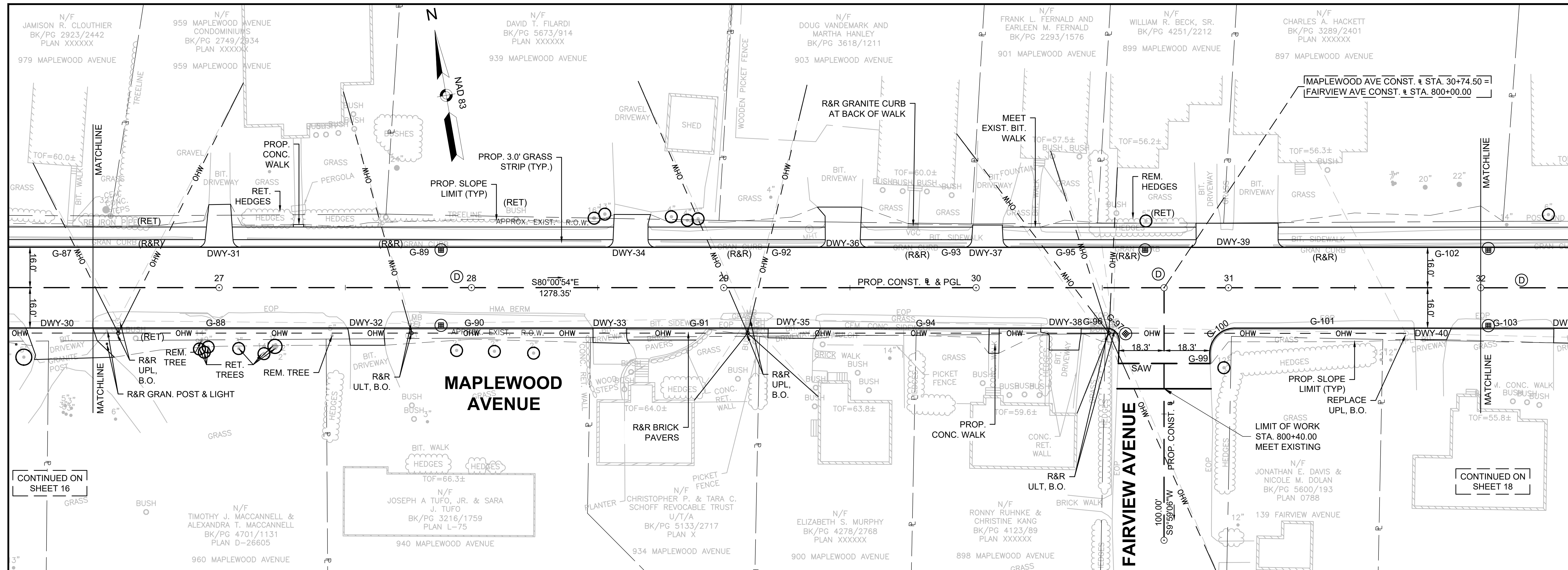
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
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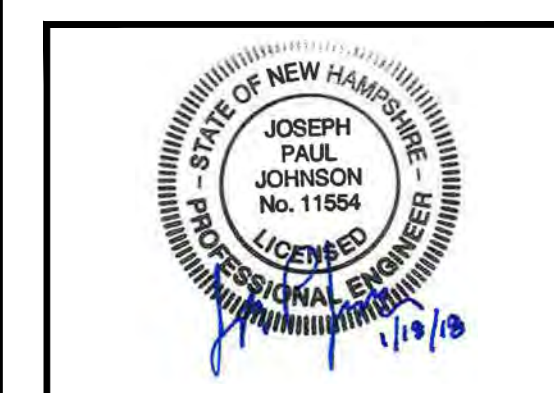
**ROADWAY
PLAN &
PROFILE -
MAPLEWOOD AVENUE**
SCALE: HORIZ: 1" = 20'
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2015086.00
15 OF 184

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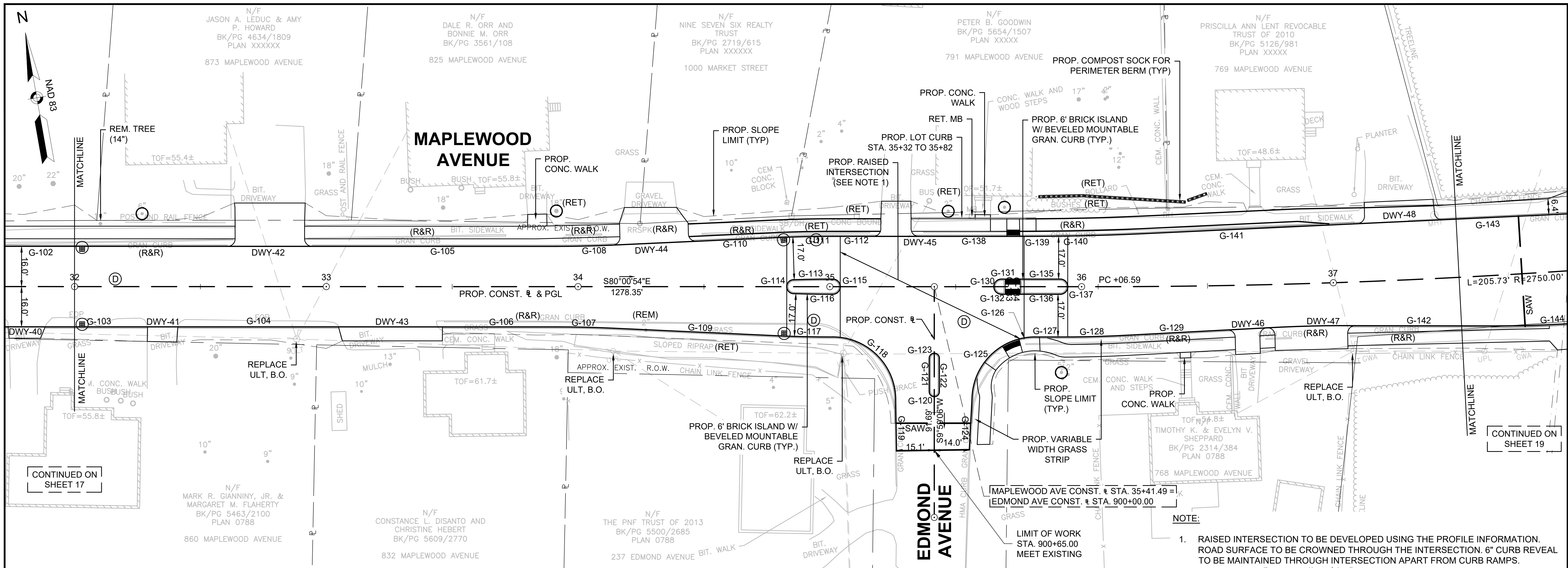
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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ROADWAY PLAN & PROFILE - MAPLEWOOD AVENUE
 SCALE: HORIZ: 1" = 20'
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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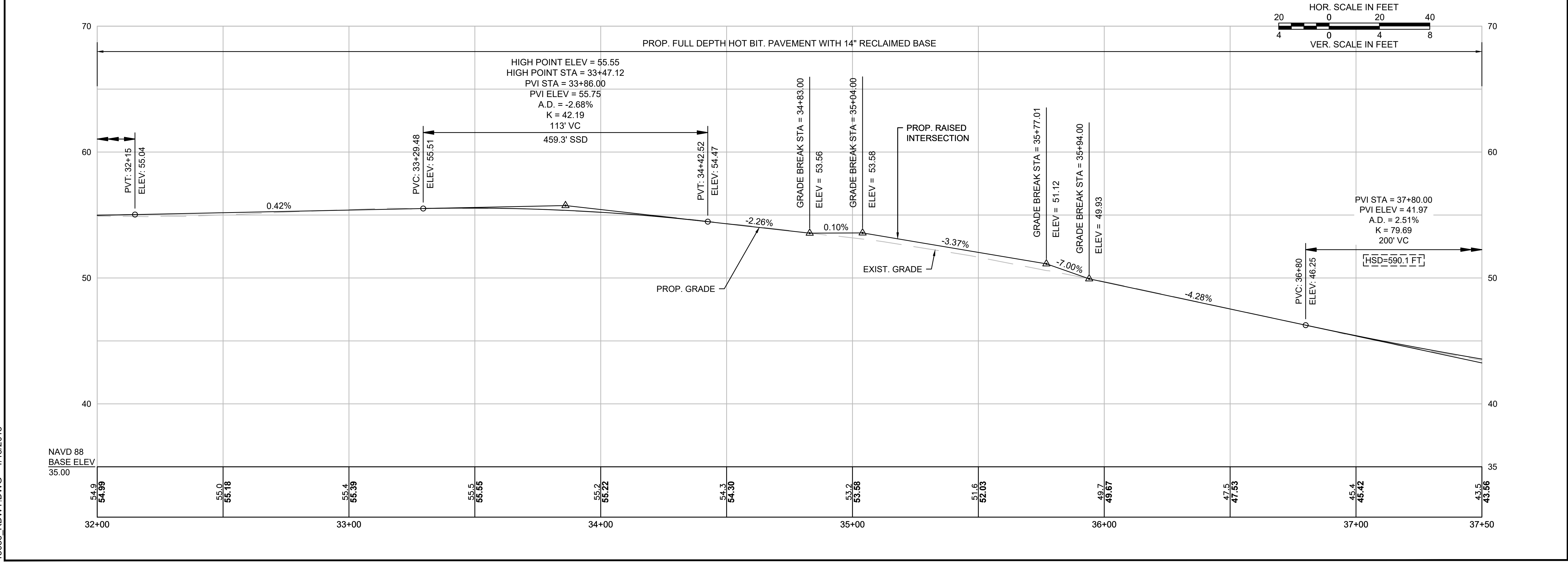
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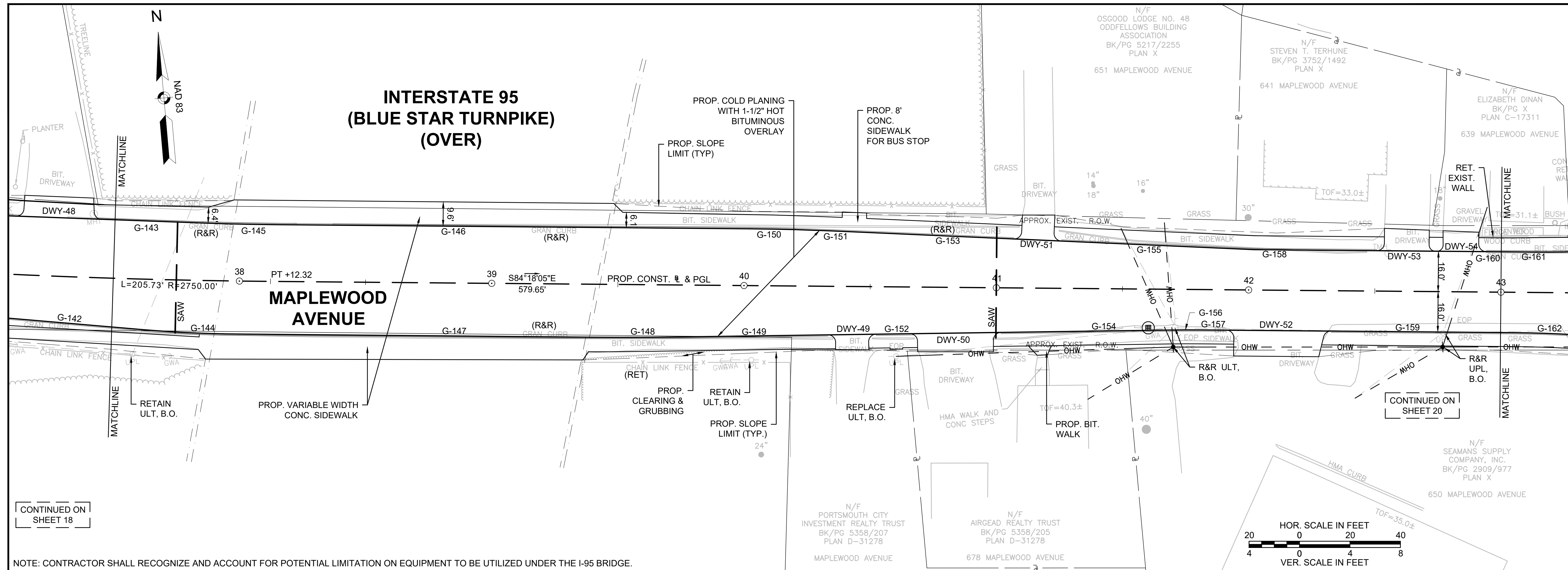
ROADWAY PLAN & PROFILE - MAPLEWOOD AVENUE

SCALE: HORIZ: 1" = 20'
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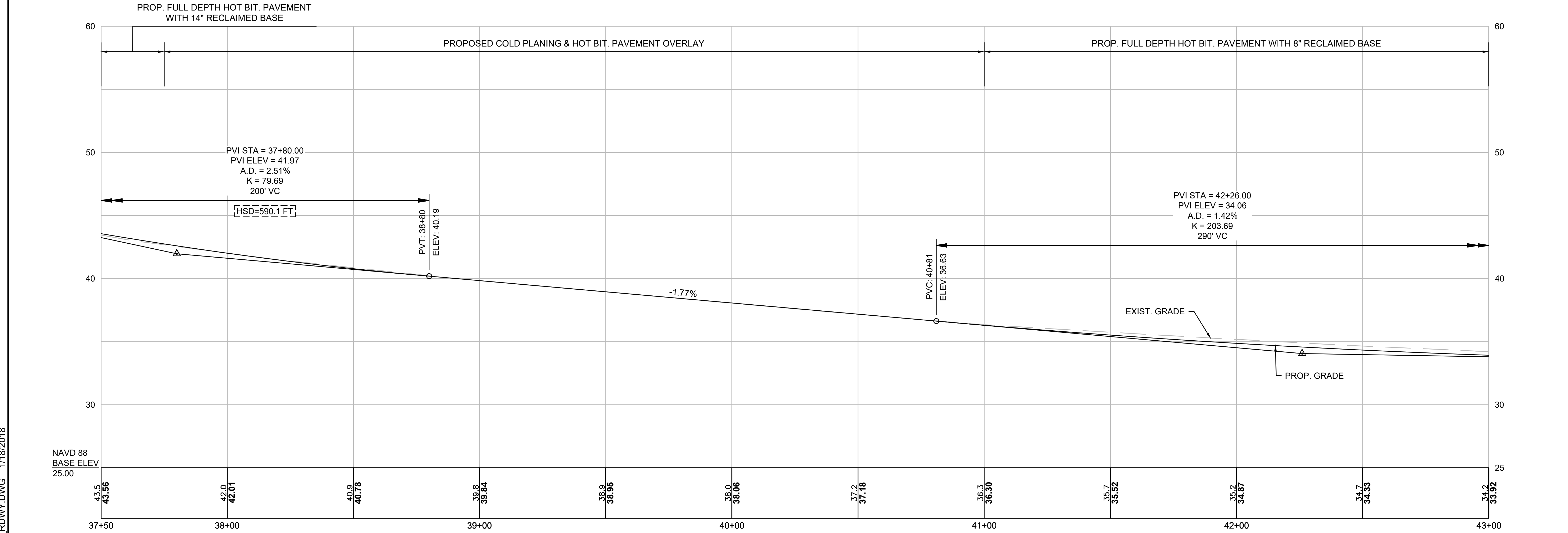
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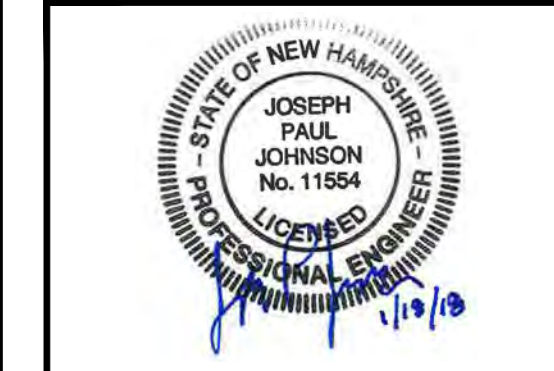


NOTE: CONTRACTOR SHALL RECOGNIZE AND ACCOUNT FOR POTENTIAL LIMITATION ON EQUIPMENT TO BE UTILIZED UNDER THE I-95 BRIDGE.



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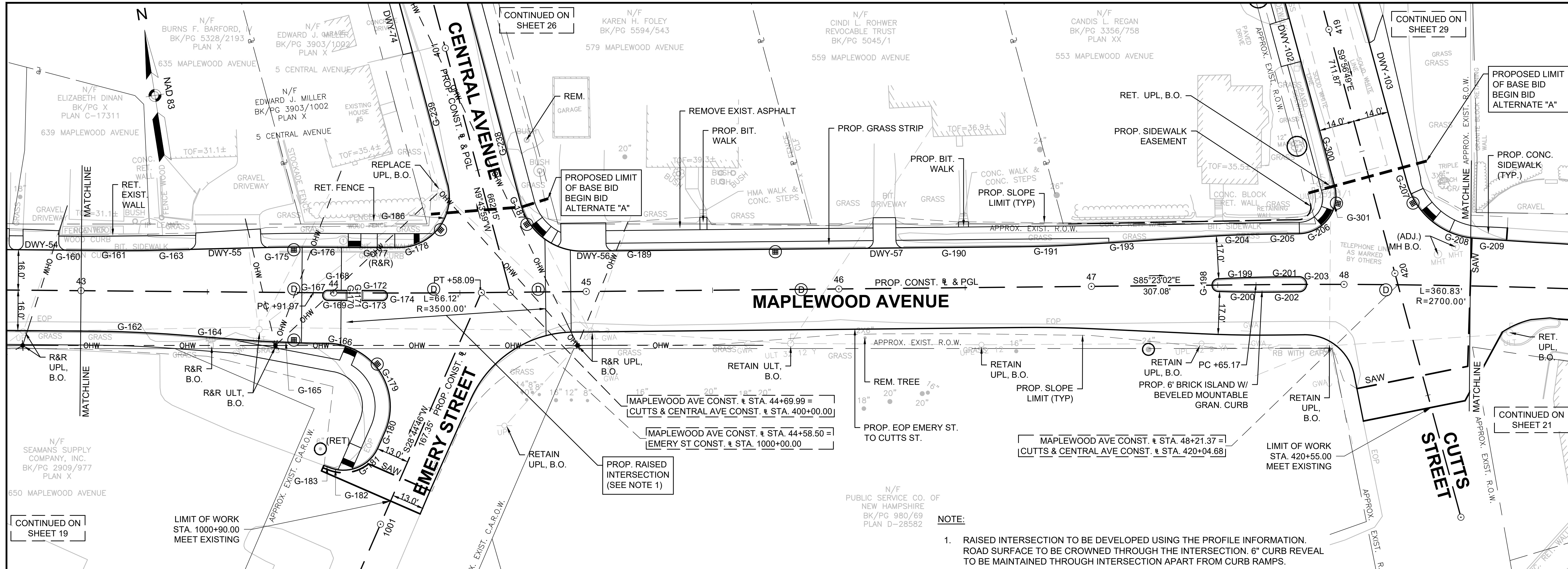
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MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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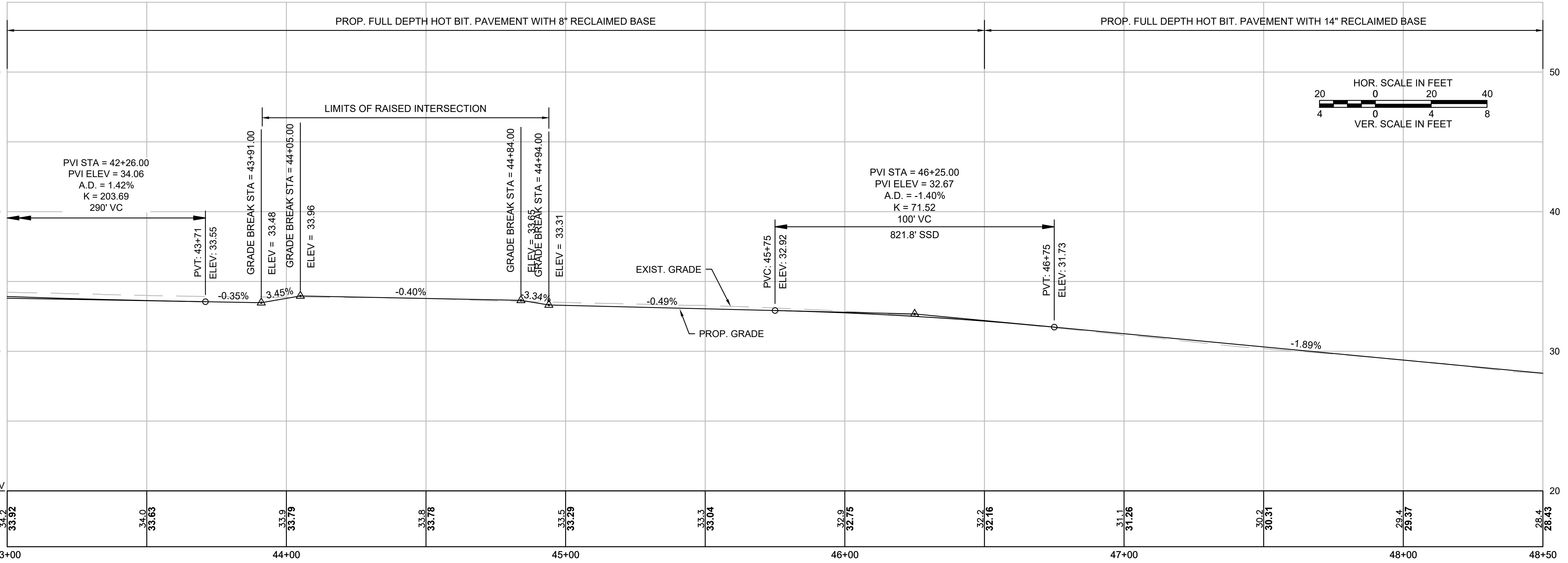
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**ROADWAY
PLAN &
PROFILE -
MAPLEWOOD
AVENUE**
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00

15086 RDWY.DWG 1/18/2018



- NOTE:**
1. RAISED INTERSECTION TO BE DEVELOPED USING THE PROFILE INFORMATION. ROAD SURFACE TO BE CROWNED THROUGH THE INTERSECTION. 6" CURB REVEAL TO BE MAINTAINED THROUGH INTERSECTION APART FROM CURB RAMPS.



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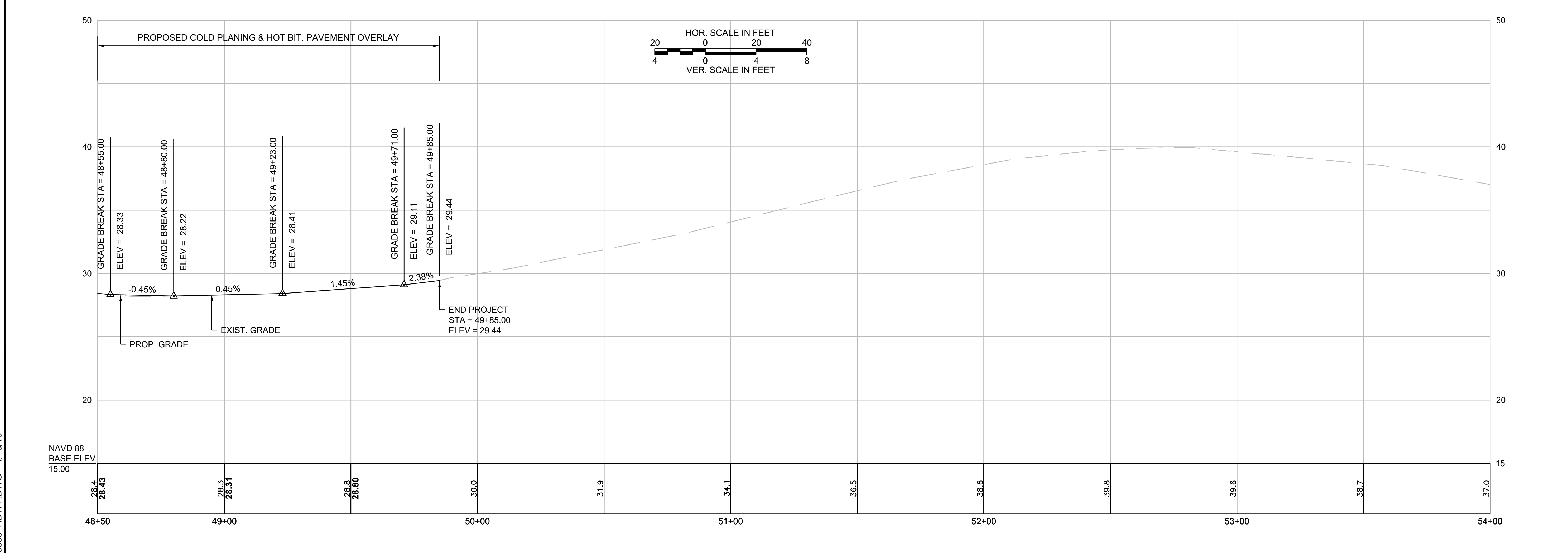
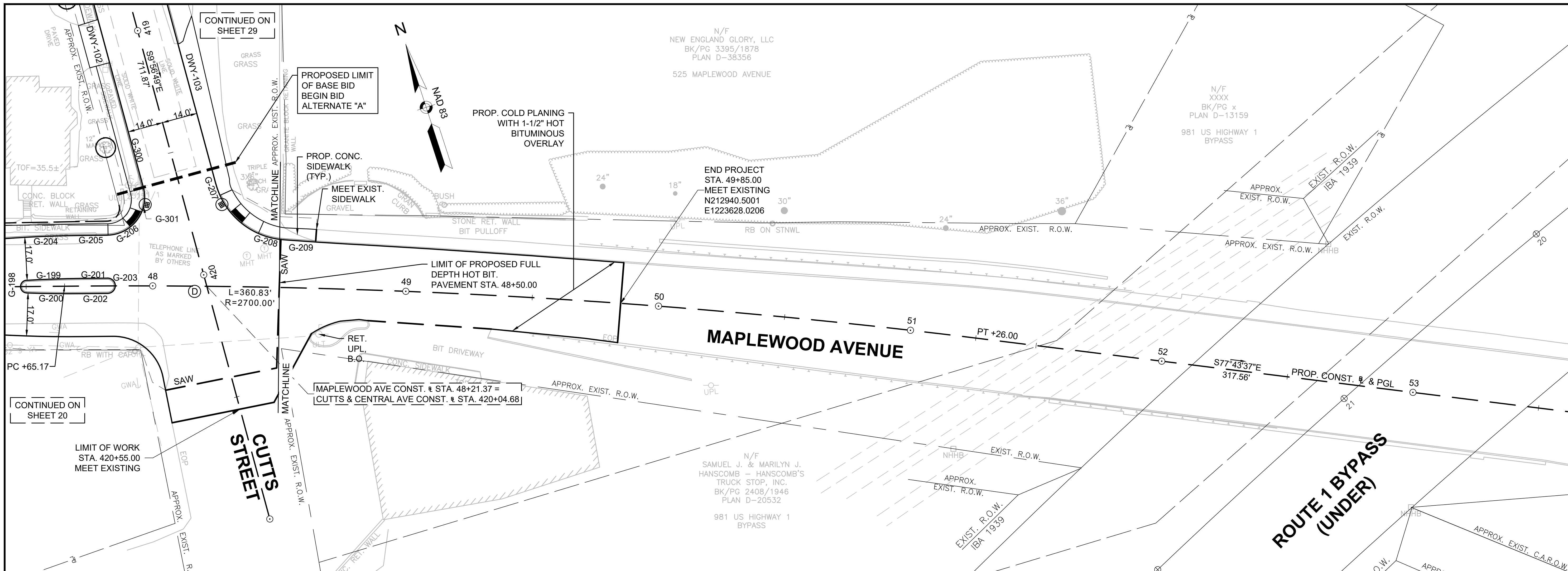
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MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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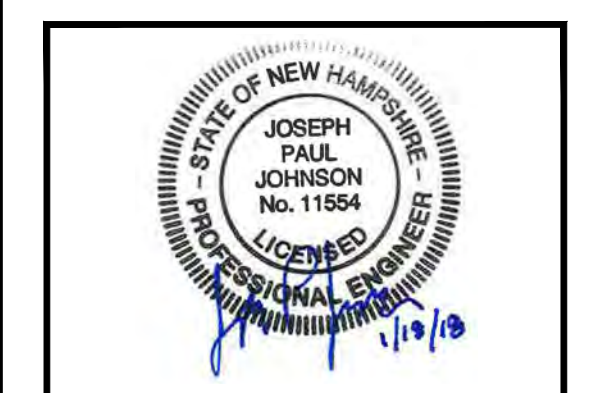
1/18/2018
DRAWN/DESIGN BY: CLS
CHECKED BY: JPJ

ROADWAY PLAN & PROFILE - MAPLEWOOD AVENUE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
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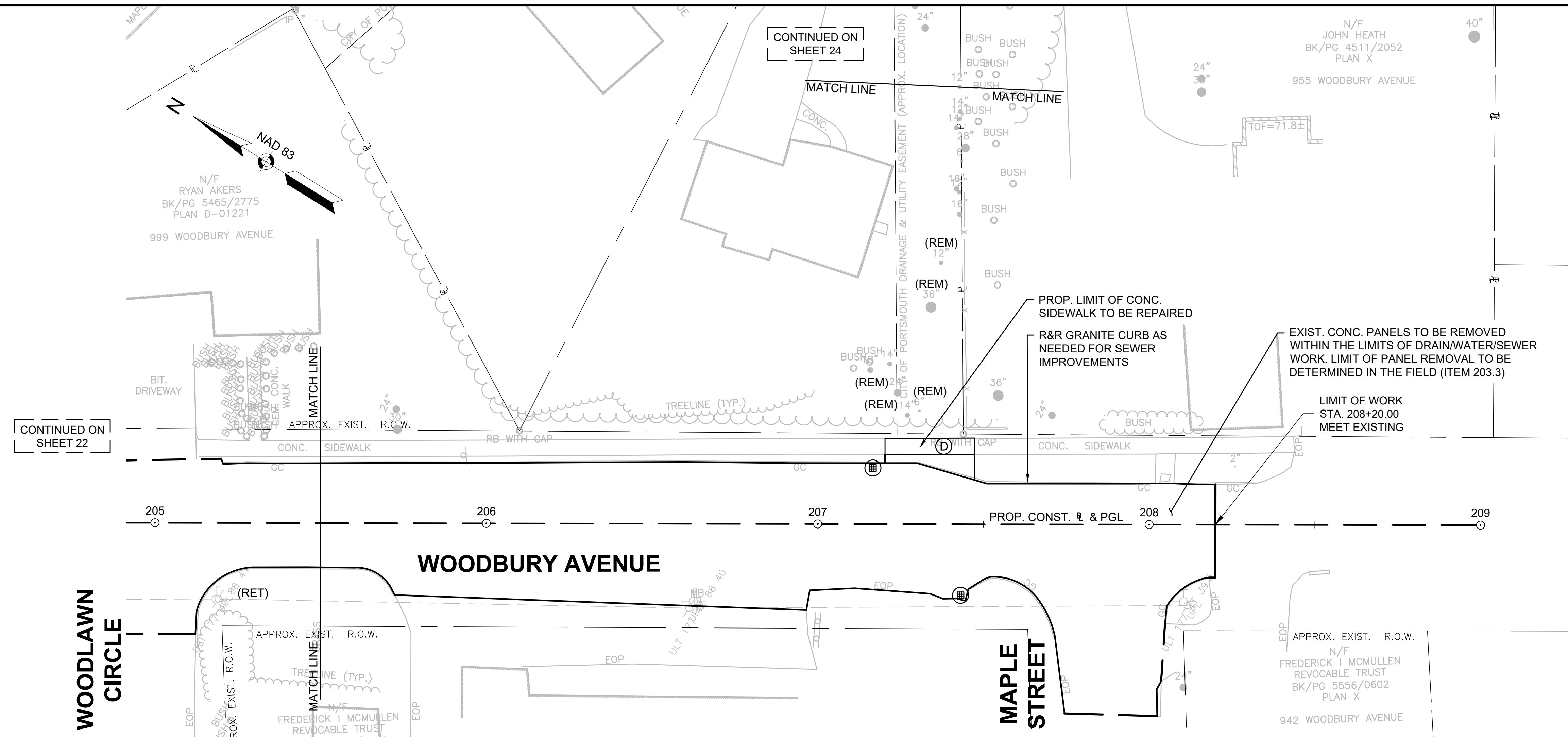
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018	
DRAWN/DESIGN BY CLS	CHECKED BY JPJ

**ROADWAY
PLAN &
PROFILE -
MAPLEWOOD
AVENUE**
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
21 of 184

15086 RDWY.DWG 1/18/18



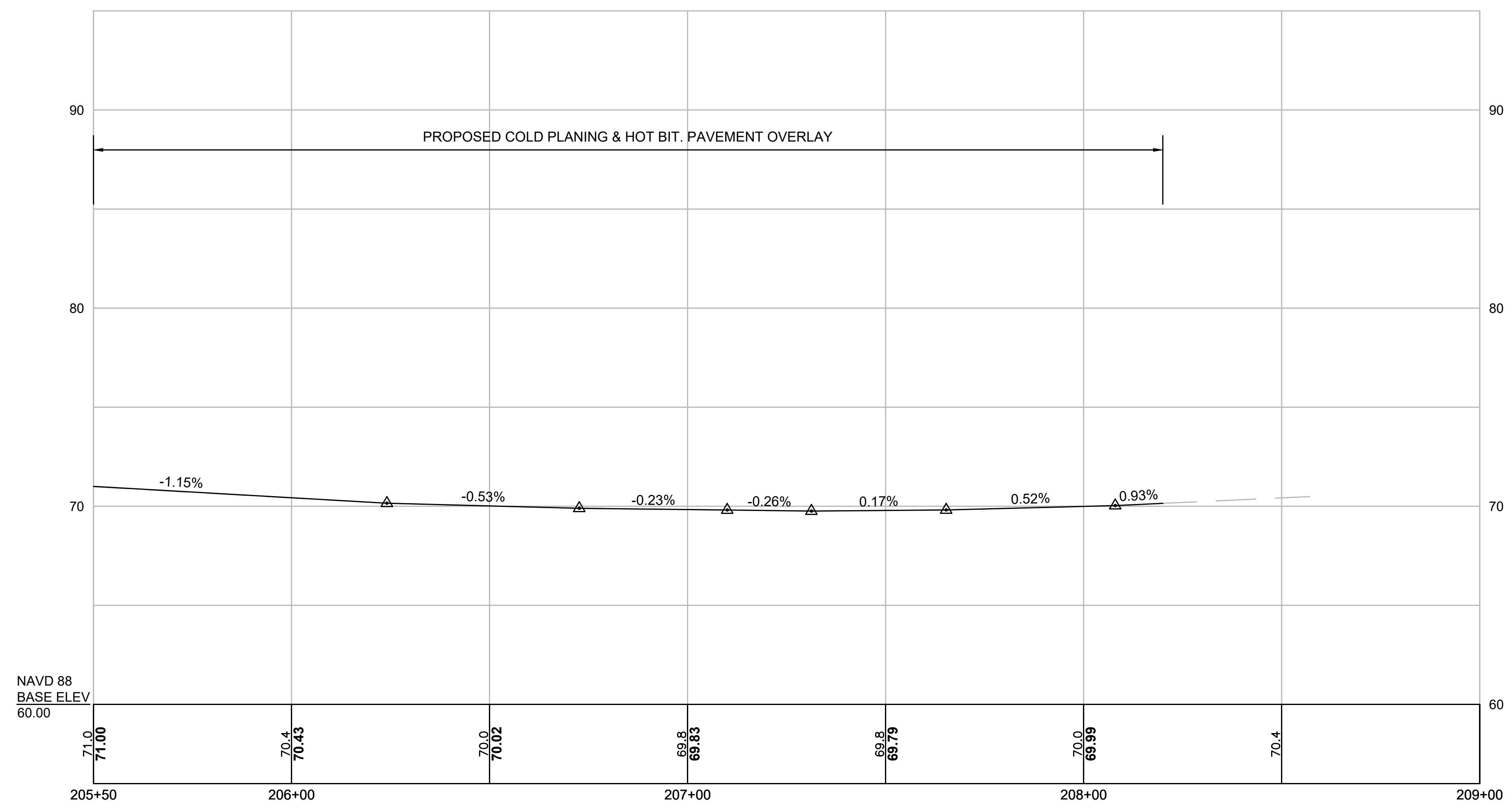
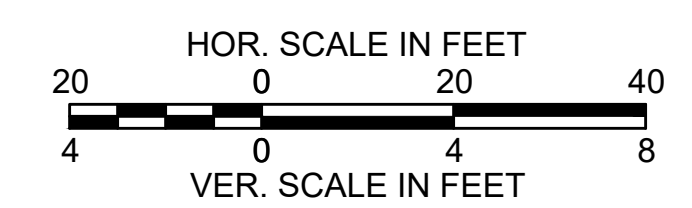
CONTINUED ON SHEET 22

CONTINUED ON SHEET 24

WOODLAWN CIRCLE

WOODBURY AVENUE

MAPLE STREET



NAVD 88
BASE ELEV
60.00

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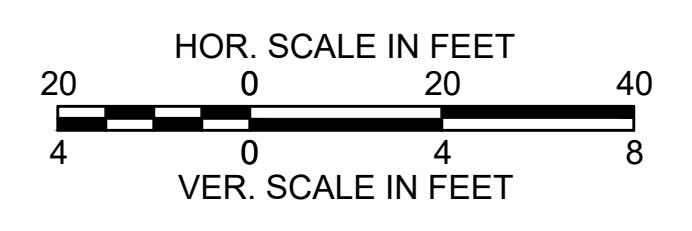
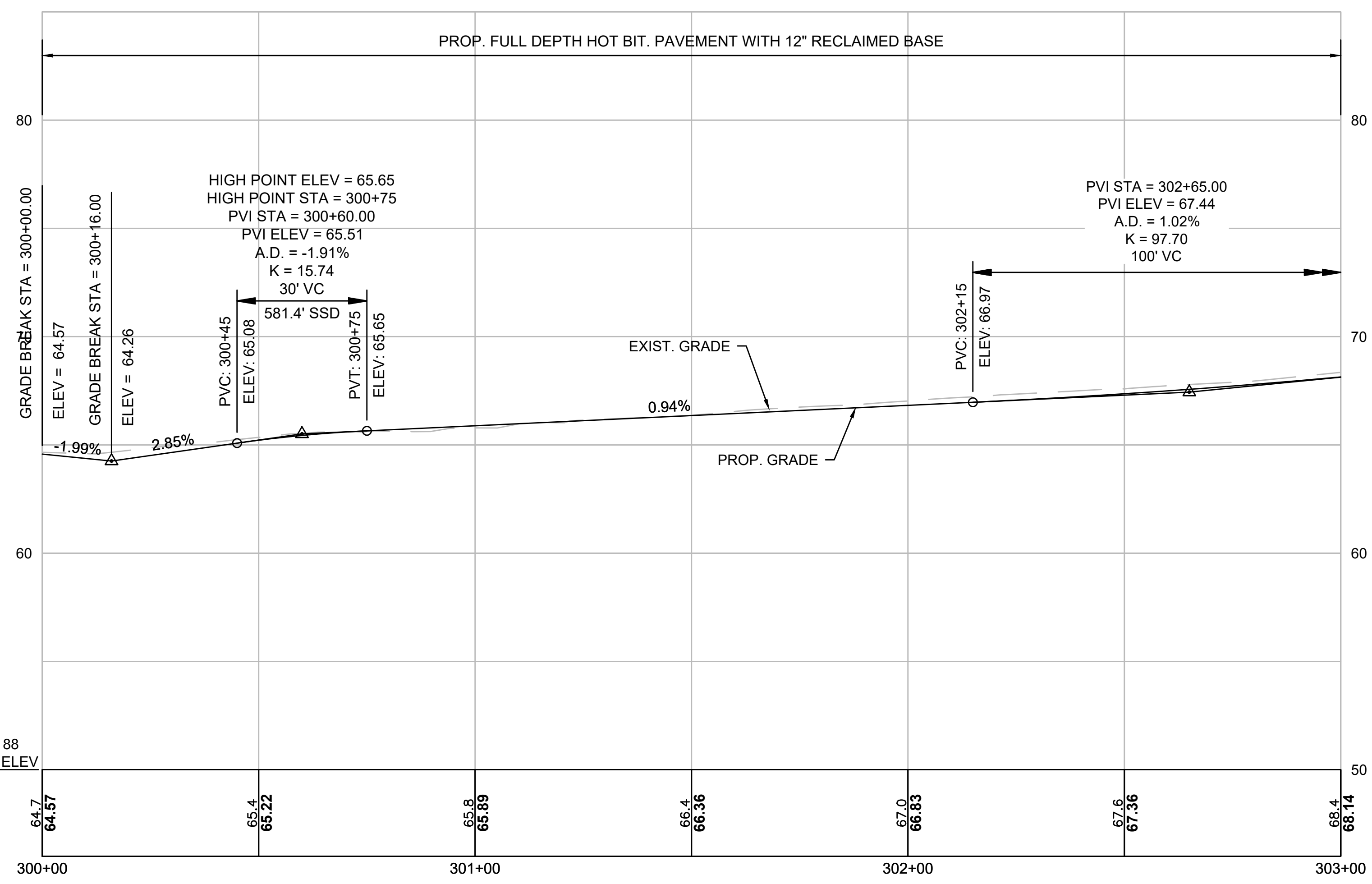
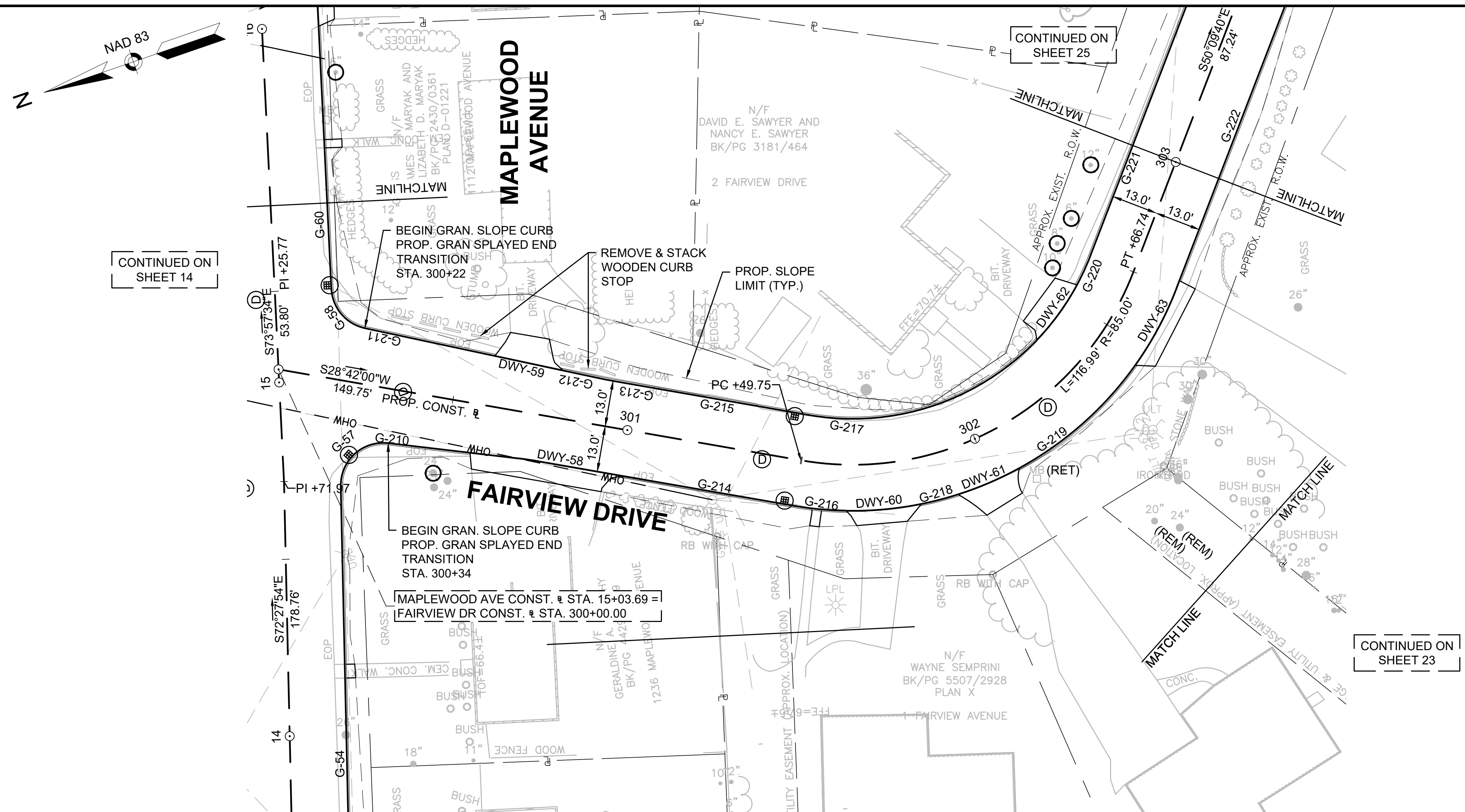
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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ROADWAY PLAN & PROFILE - WOODBURY AVENUE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00



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**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

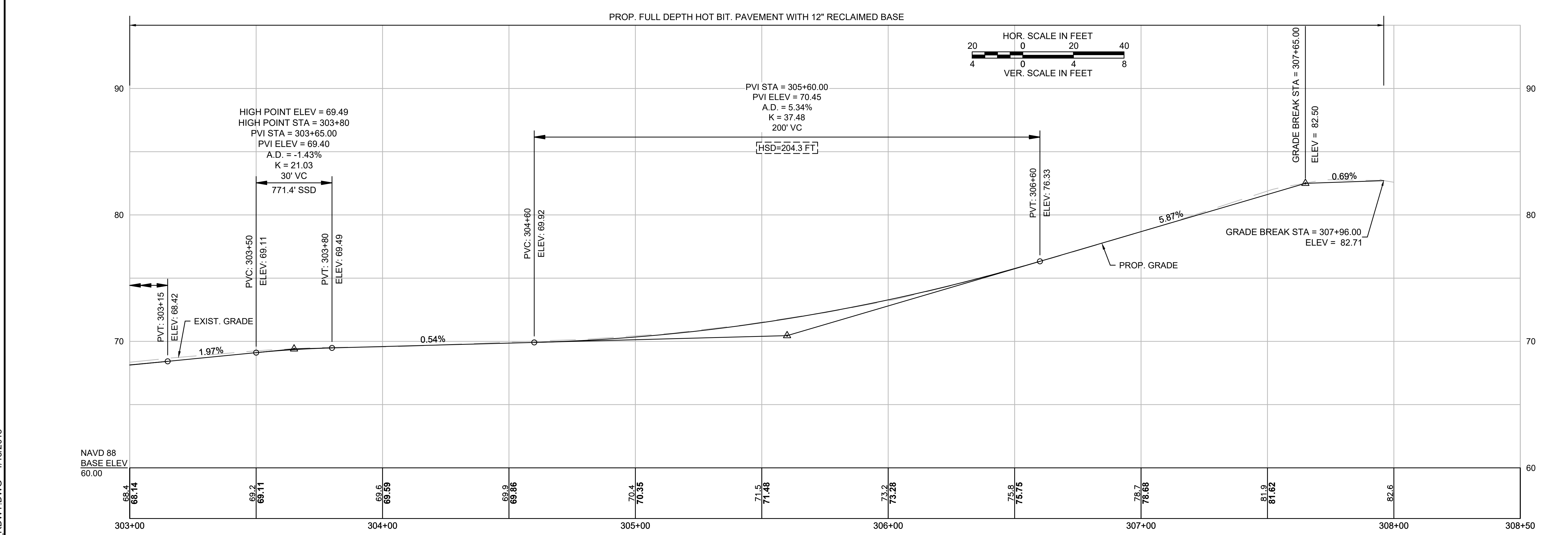
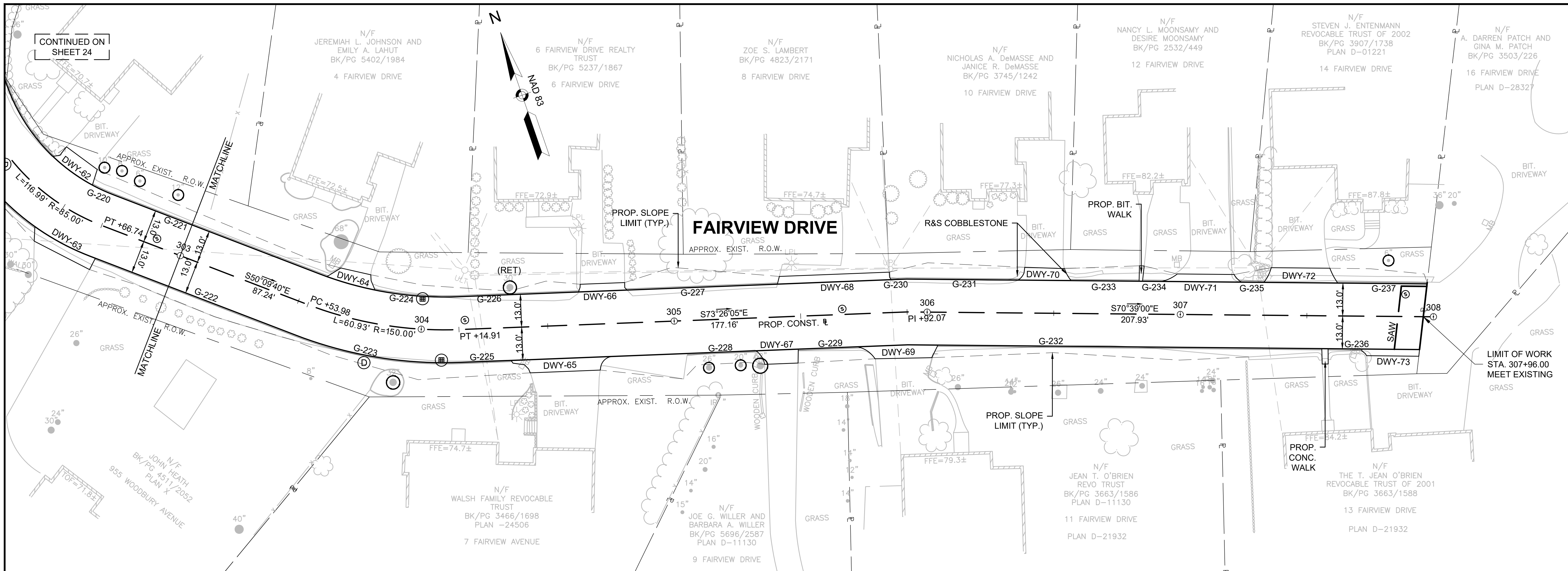
REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**ROADWAY
PLAN &
PROFILE -
FAIRVIEW
DRIVE**

SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

2015086.00



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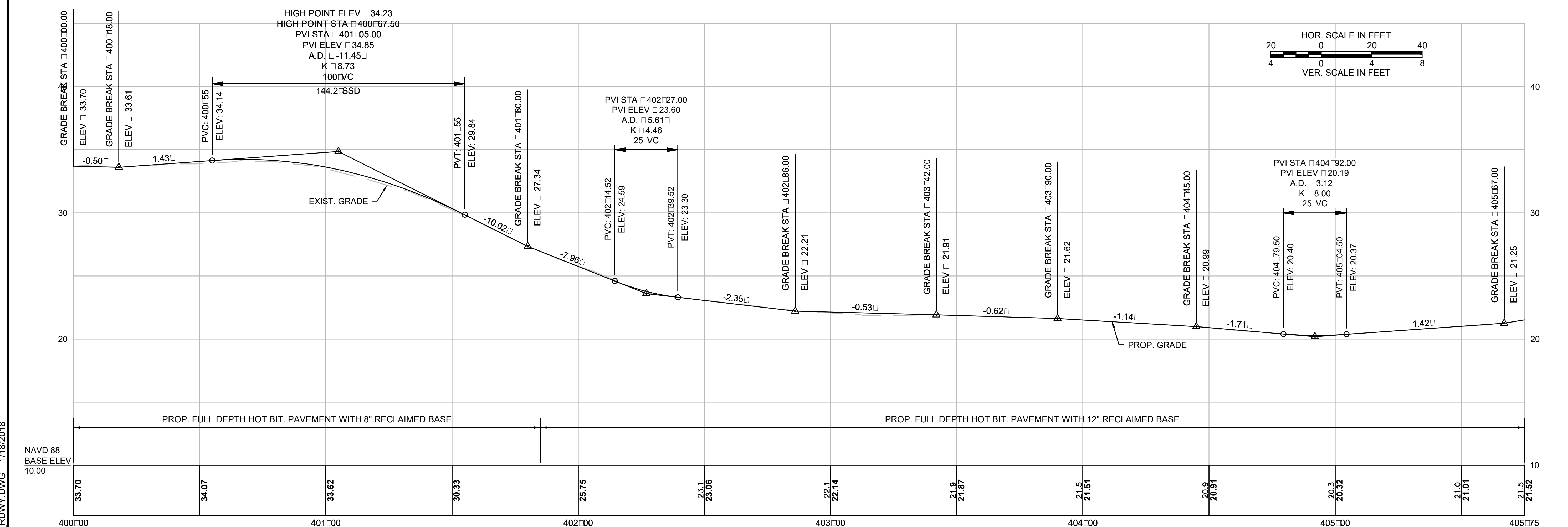
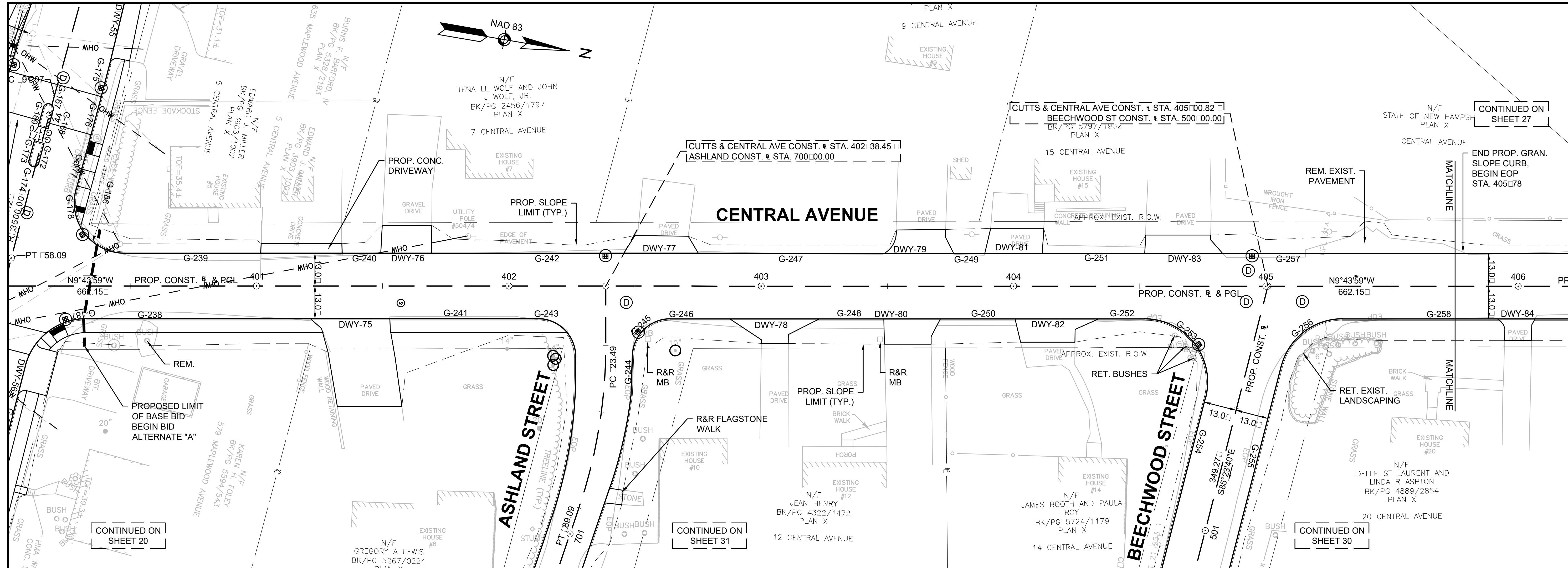
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

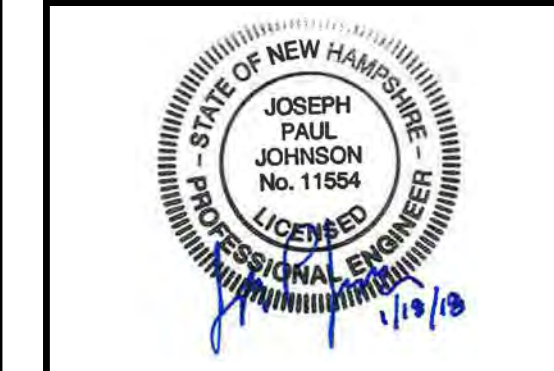
1/18/2018
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ROADWAY PLAN & PROFILE - FAIRVIEW DRIVE
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'
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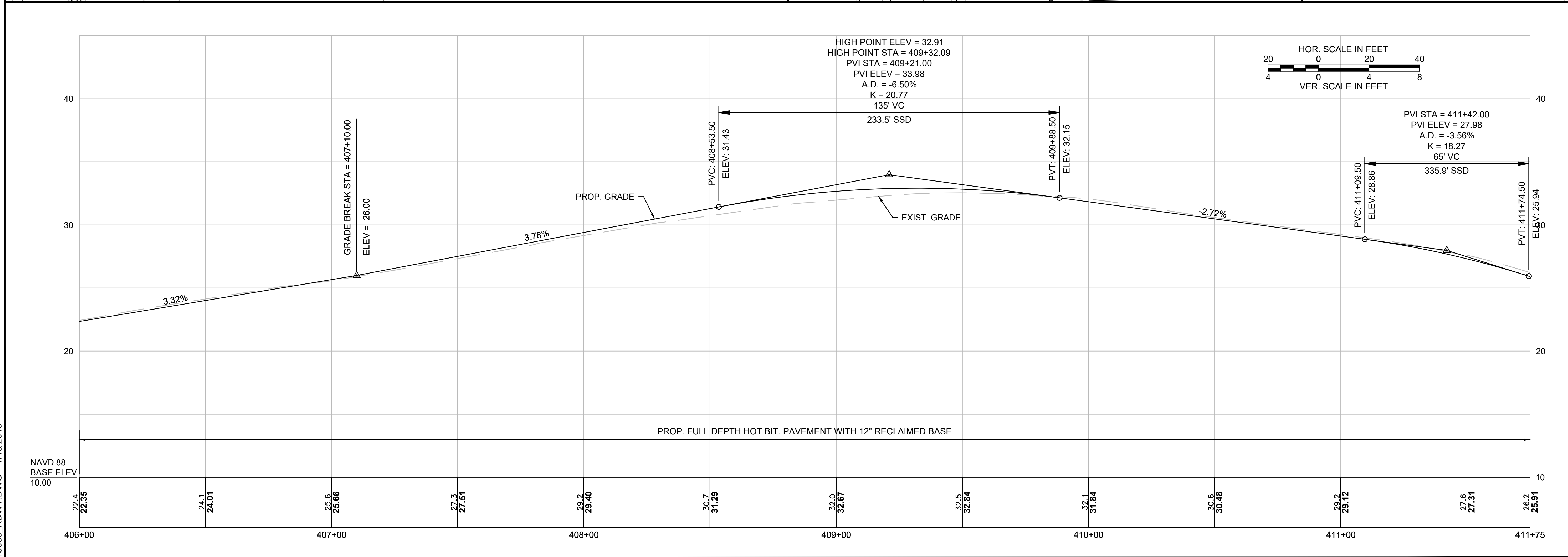
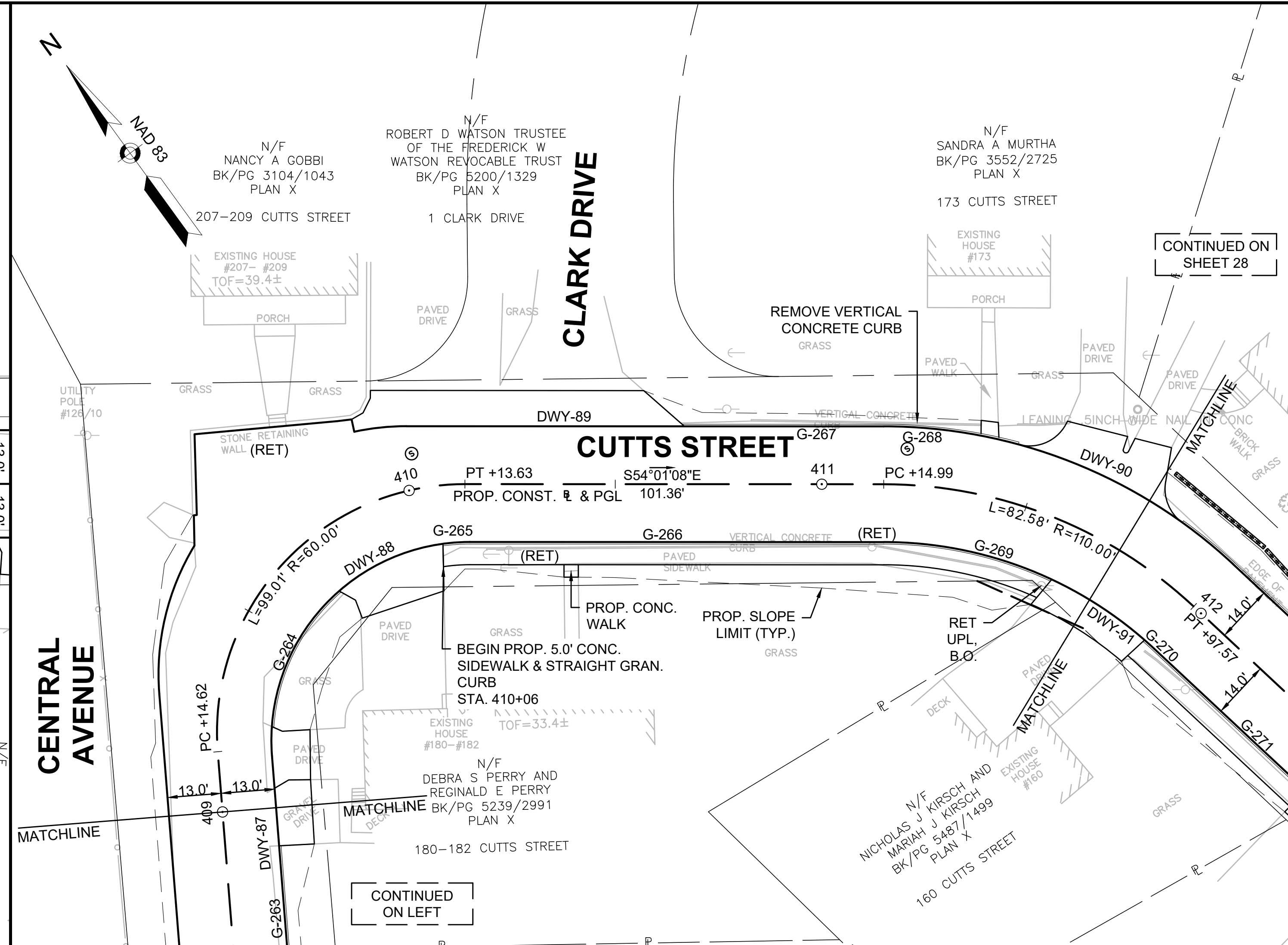
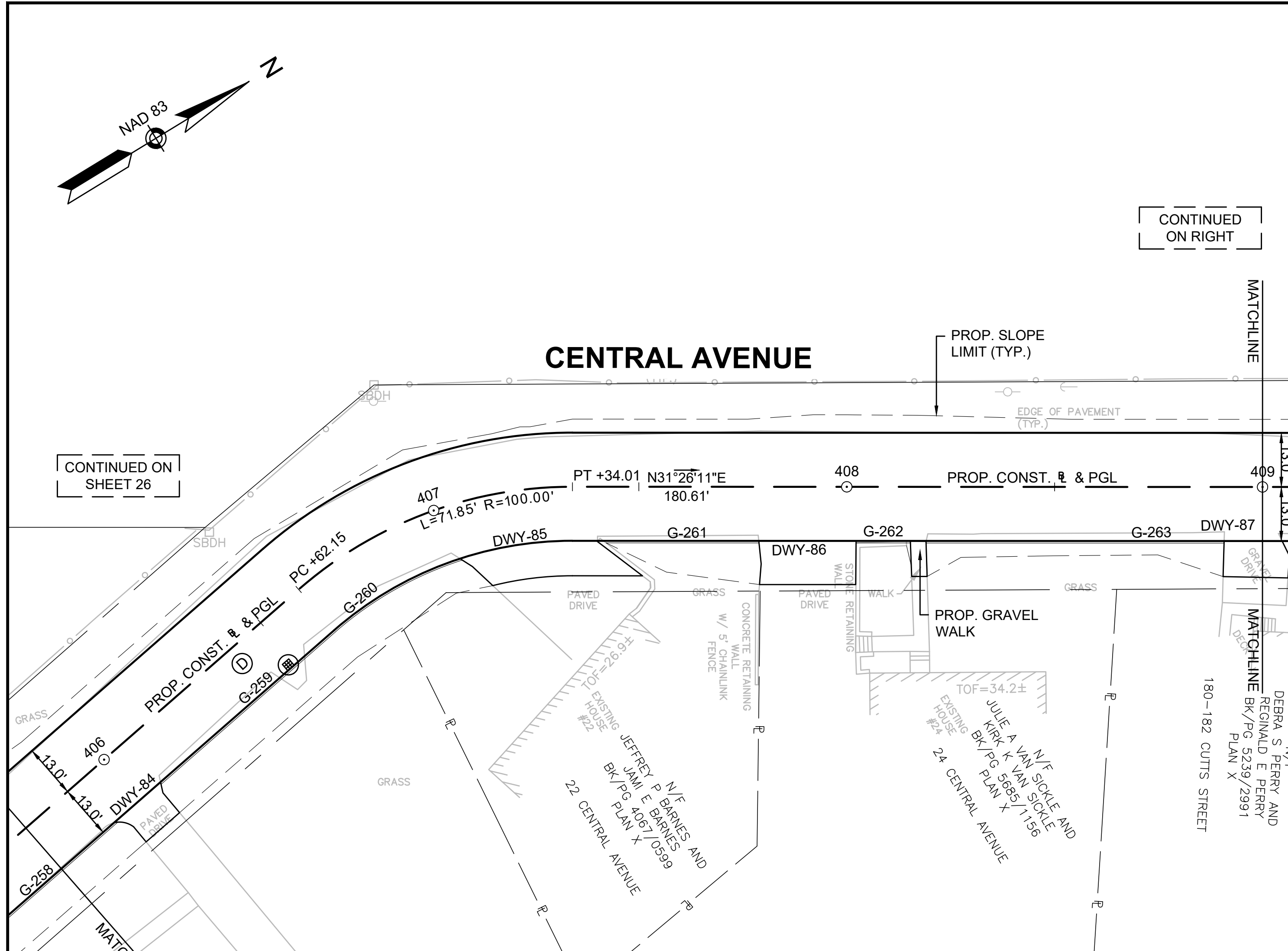
**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**ROADWAY
PLAN &
PROFILE -
CENTRAL
AVENUE**
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00

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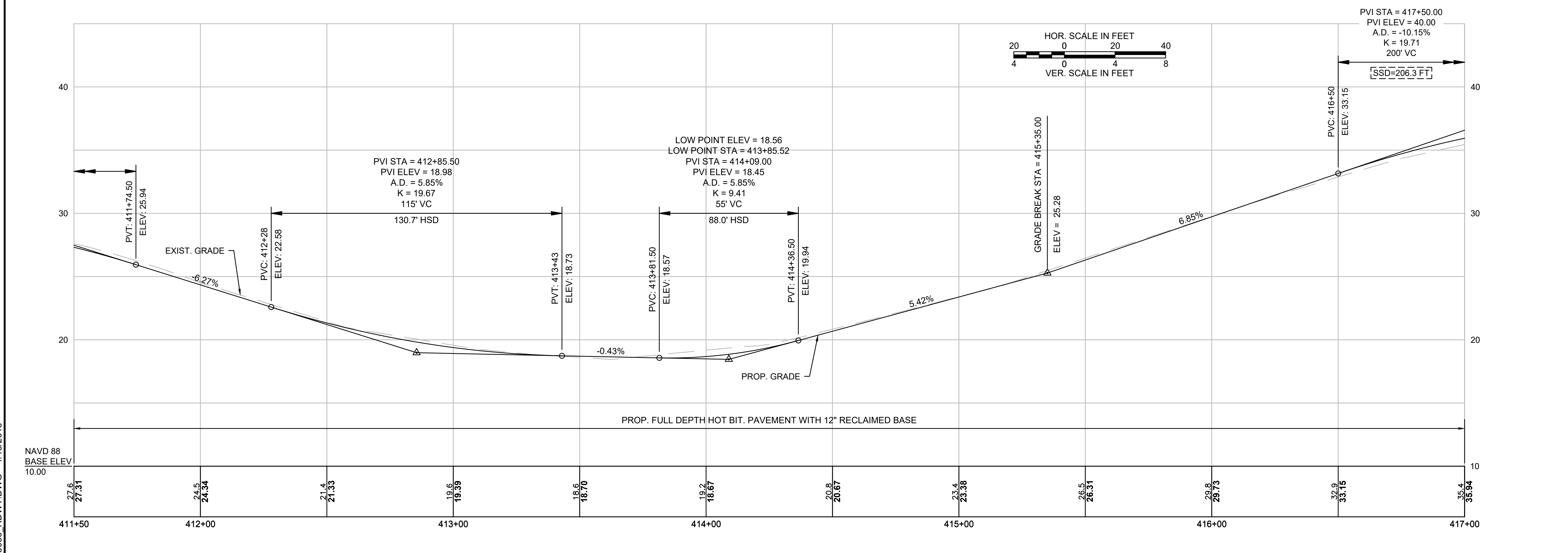
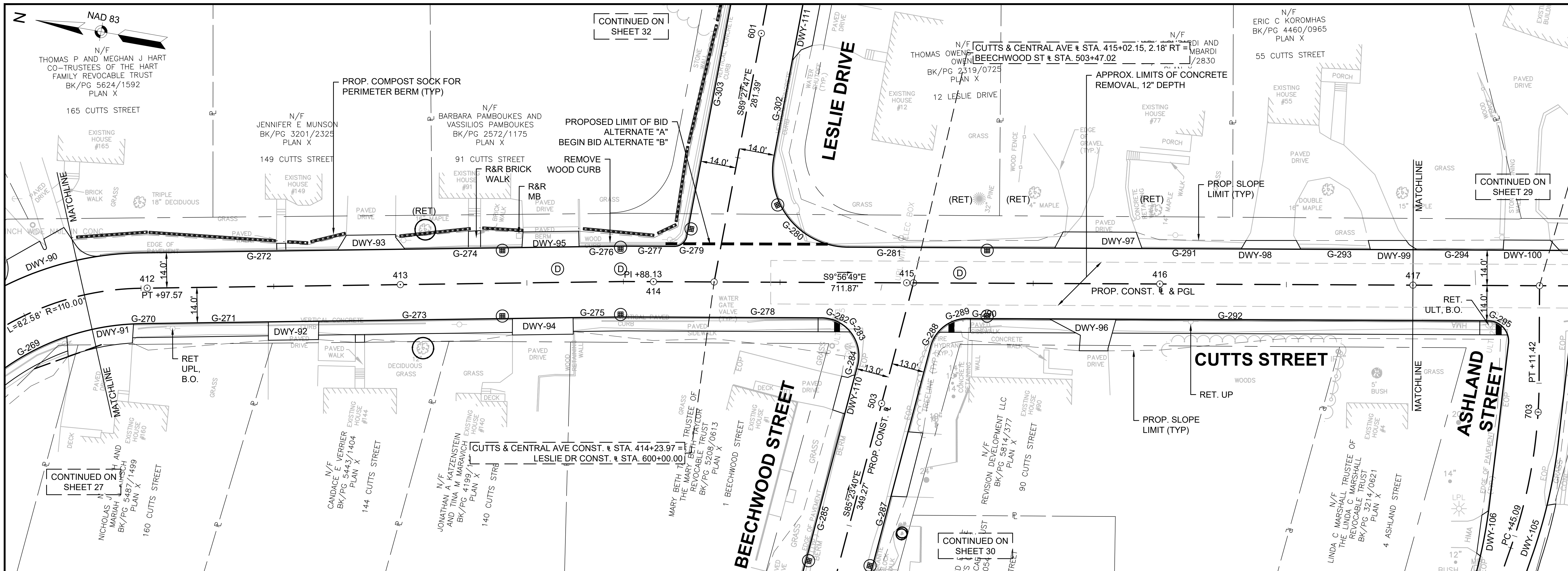
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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ROADWAY PLAN & PROFILE - CENTRAL & CUTTS
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
27 OF 184

15086_RDWY.DWG 1/18/2018



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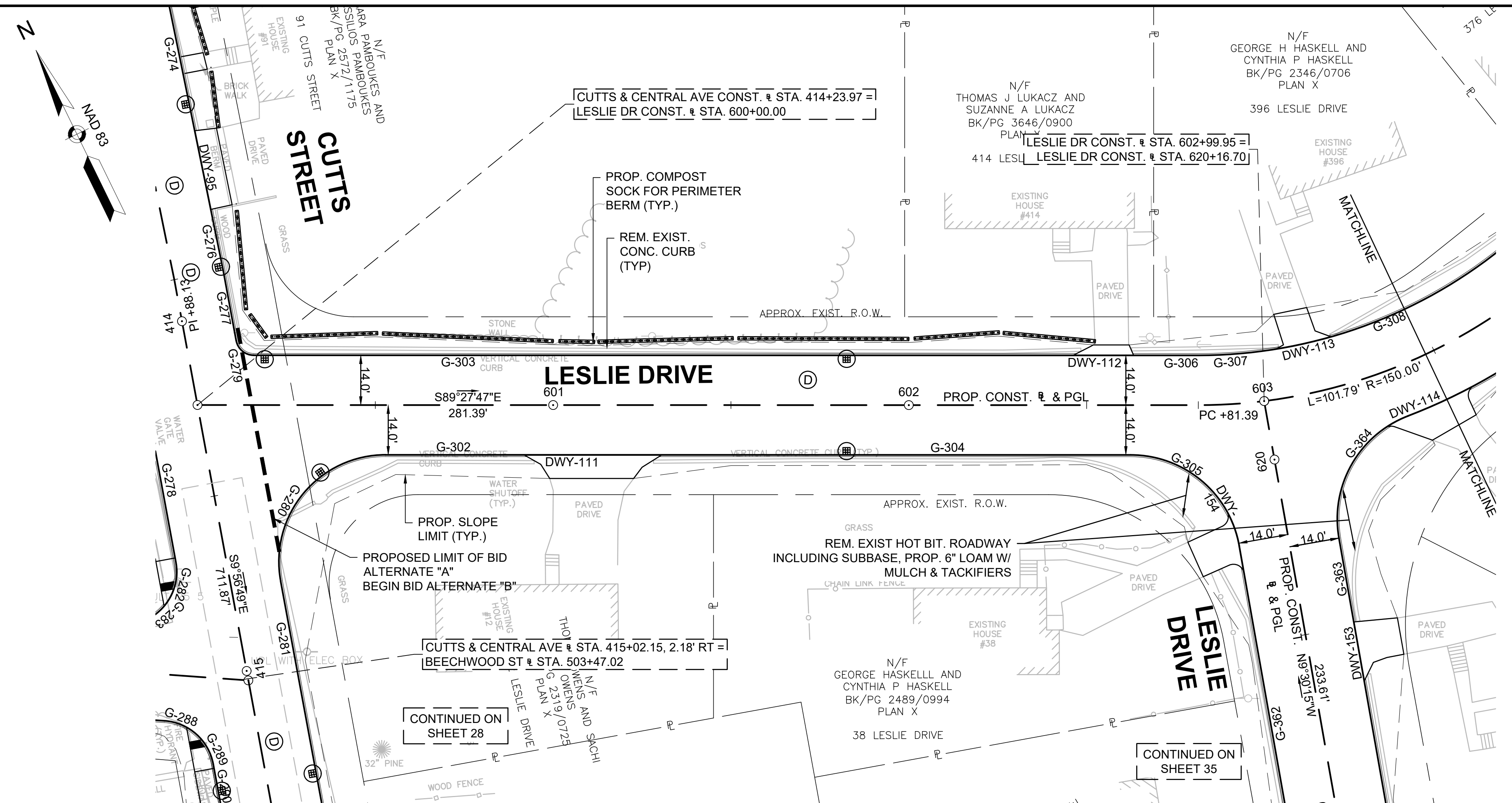
IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
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PORTSMOUTH, NH

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ROADWAY PLAN & PROFILE - CUTTS STREET
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
28 OF 184

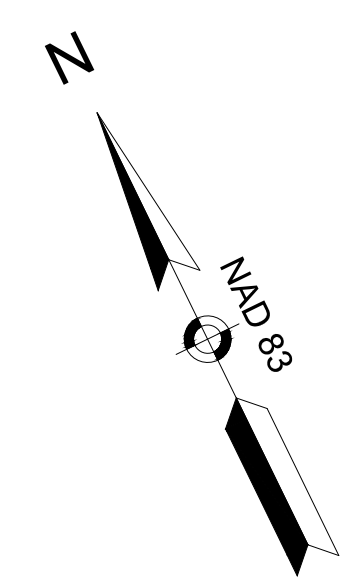
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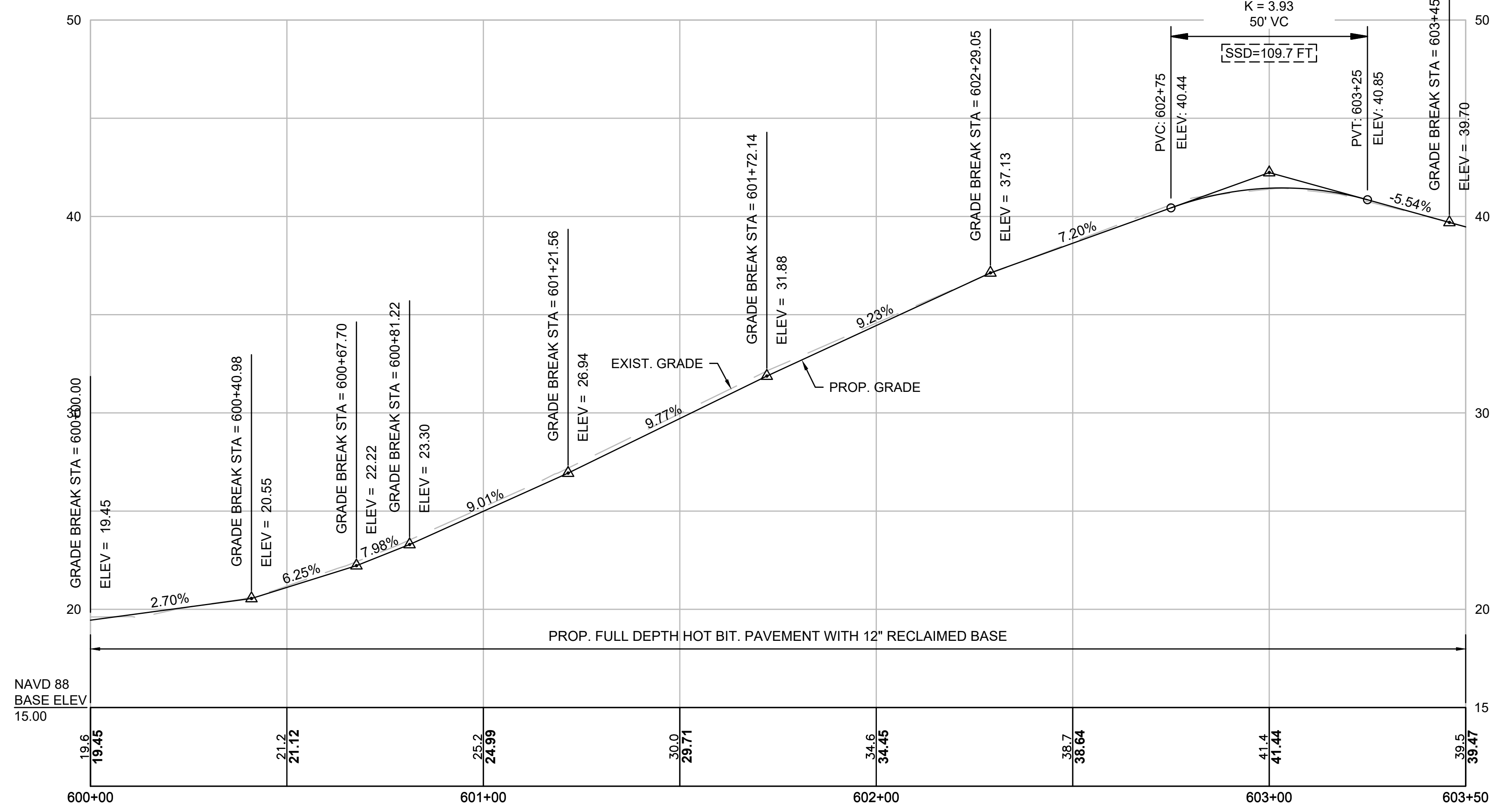
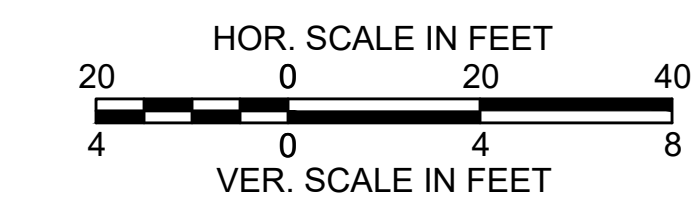
CONTINUED ON SHEET 33

CONTINUED ON SHEET 28

CONTINUED ON SHEET 35



PVI STA = 603+00.00
 PVI ELEV = 42.24
 A.D. = -12.73%
 K = 3.93
 50' VC



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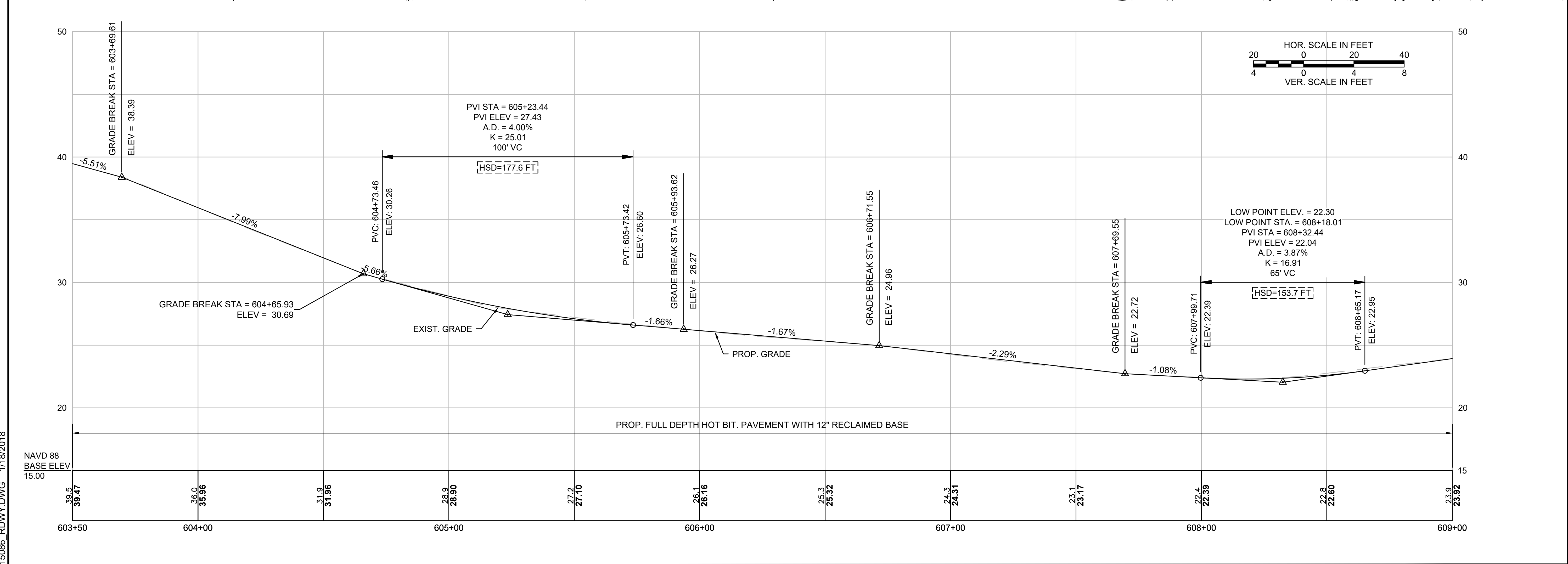
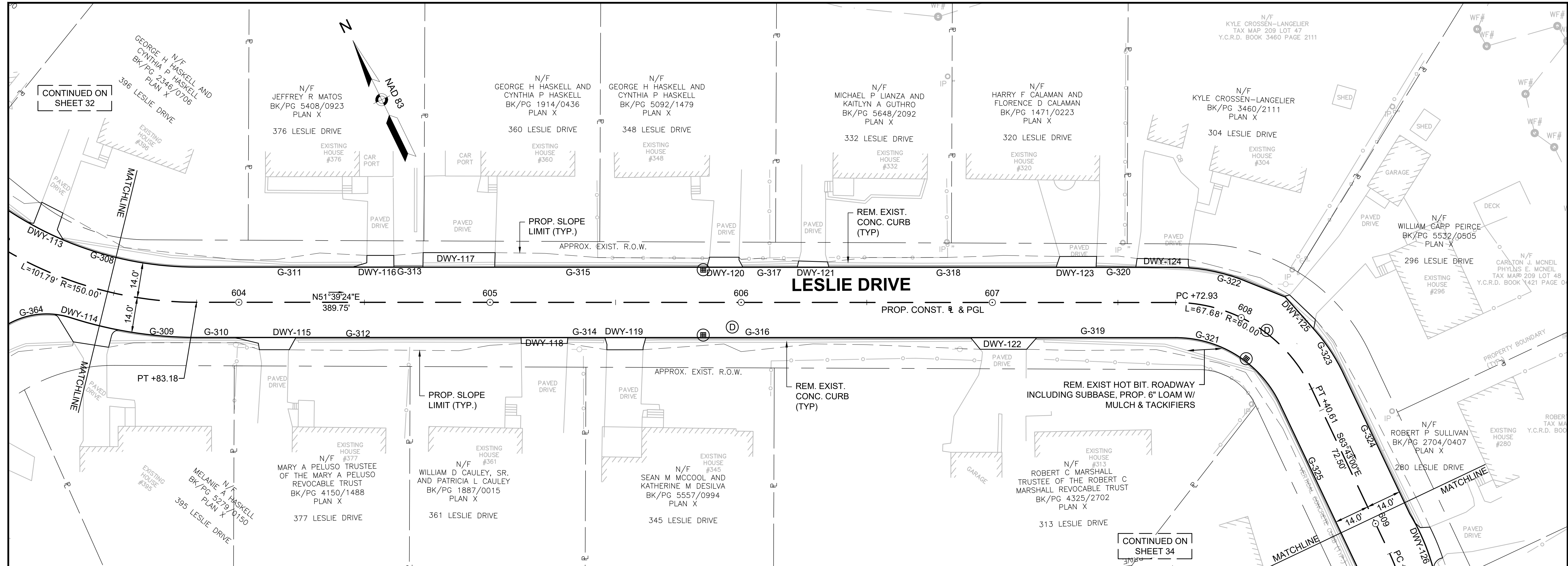
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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ROADWAY PLAN & PROFILE - LESLIE DRIVE
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'
 2015086.00
 32 OF 184



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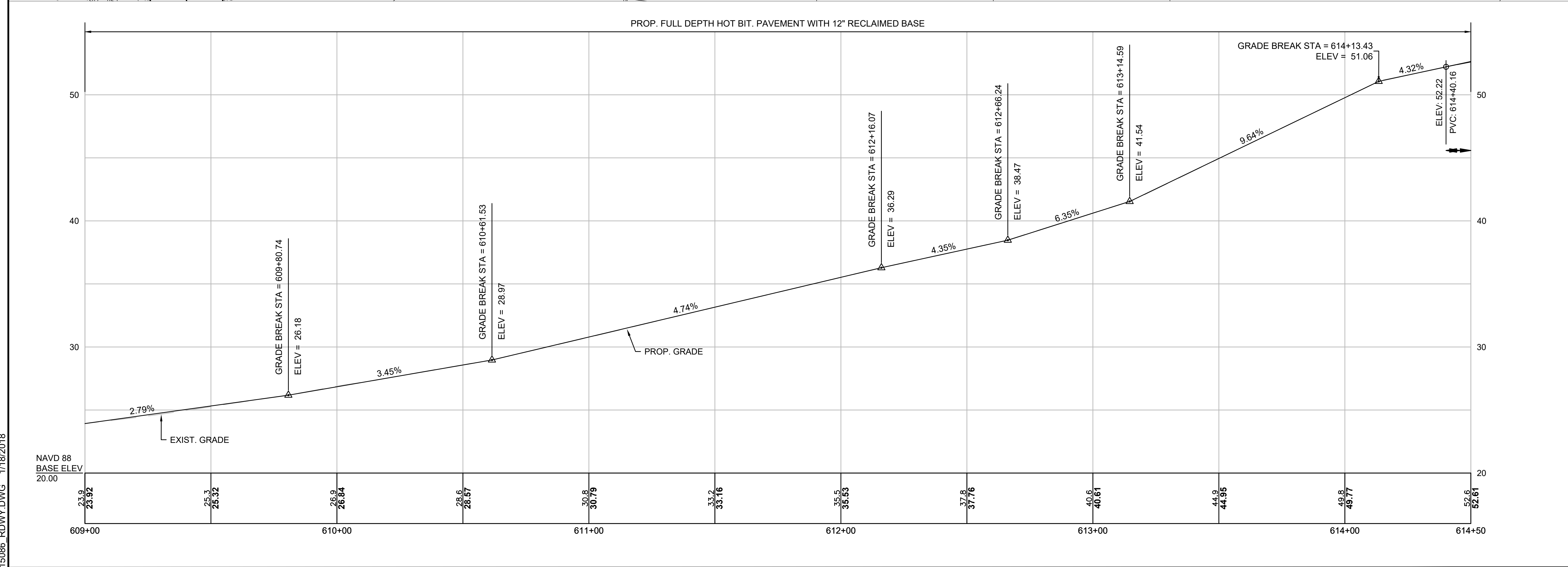
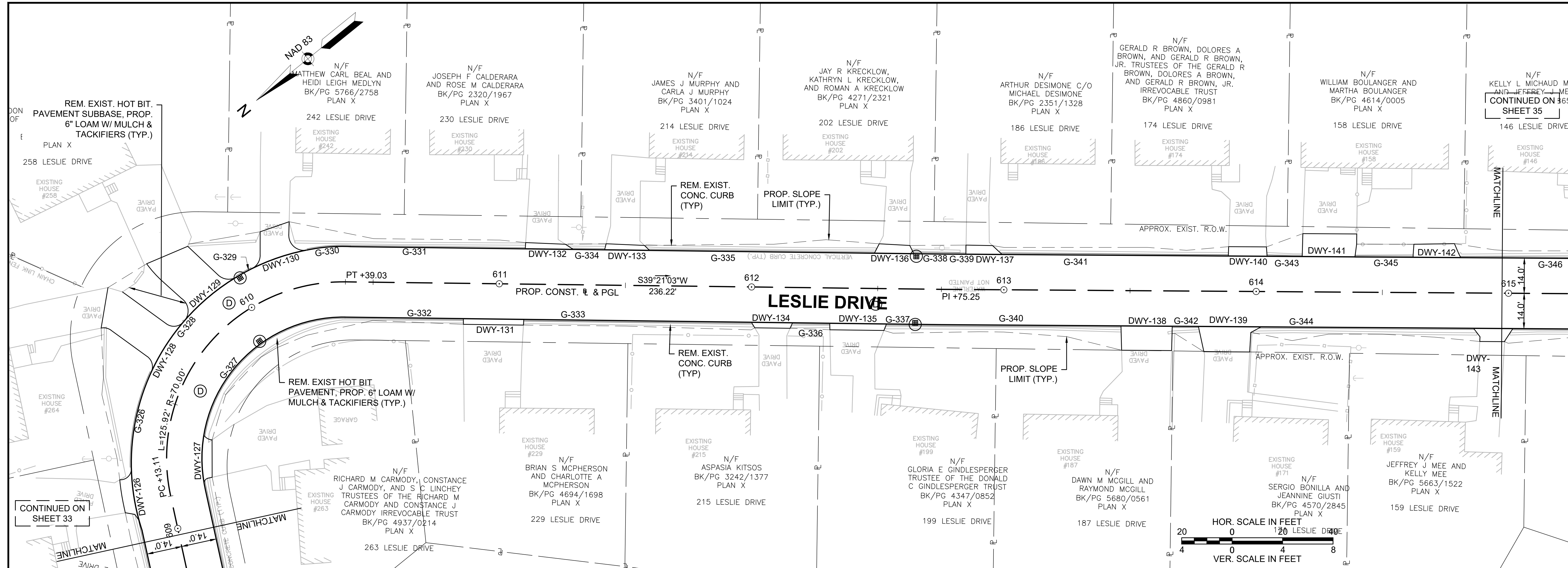
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
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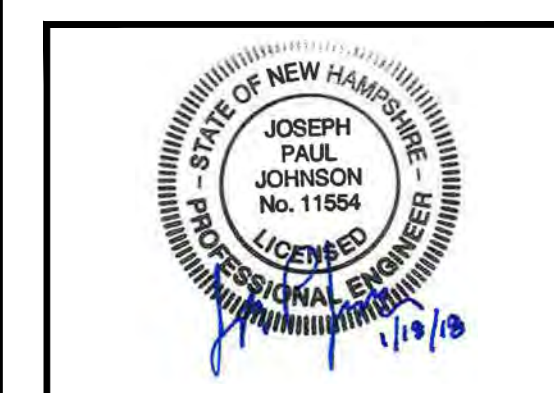
ROADWAY PLAN & PROFILE - LESLIE DRIVE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
33 OF 184

15086 RDWY.DWG 1/18/2018



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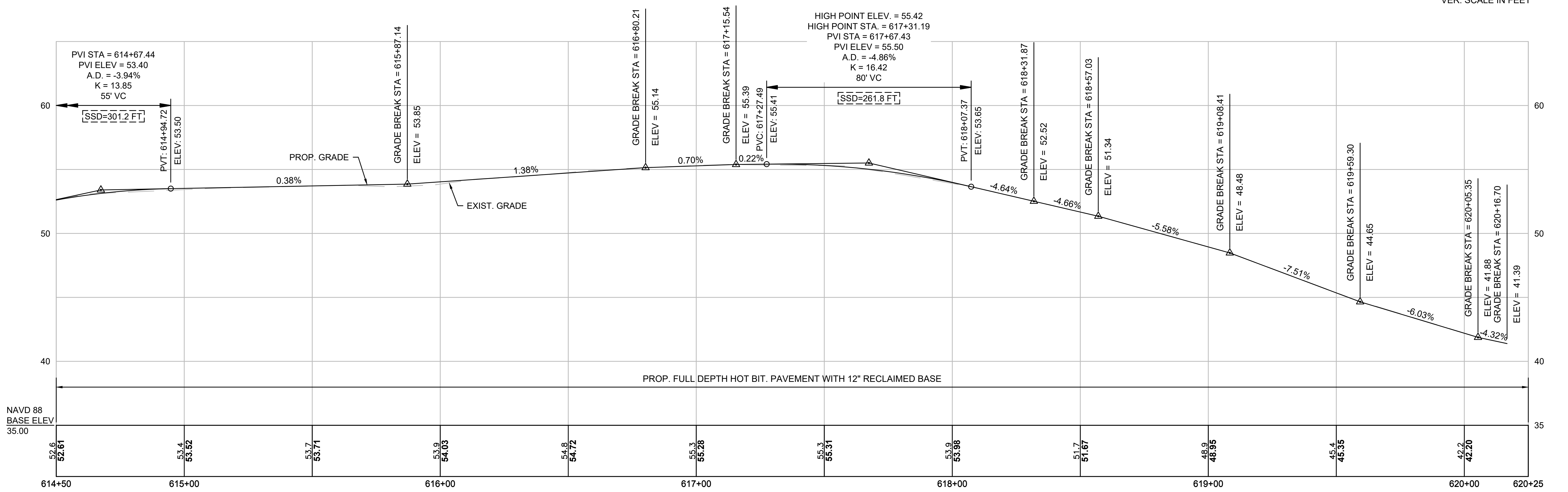
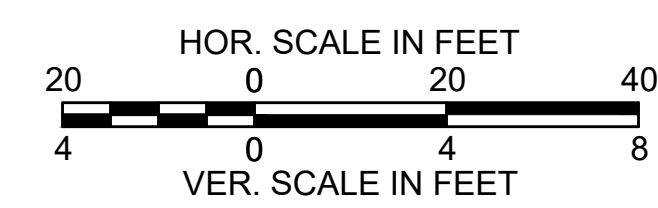
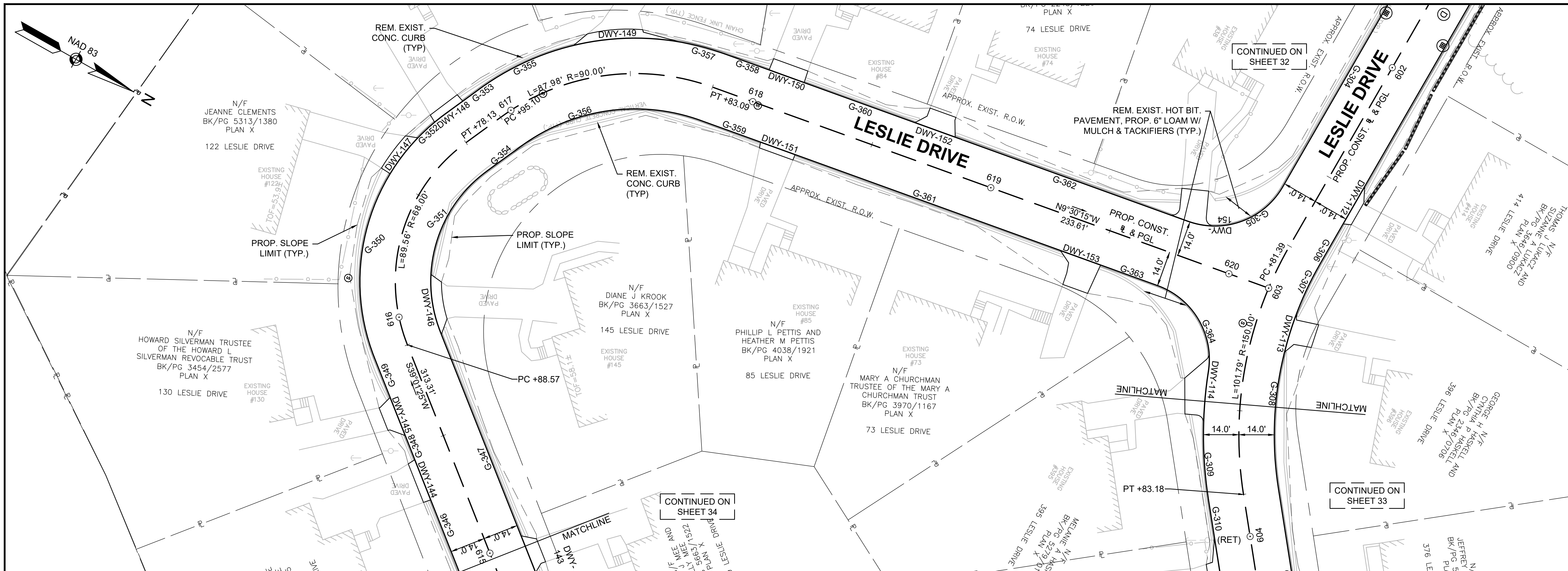
IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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ROADWAY PLAN & PROFILE - LESLIE DRIVE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00
34 OF 184

15086 RDWY.DWG 1/18/2018



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PORTSMOUTH, NH**

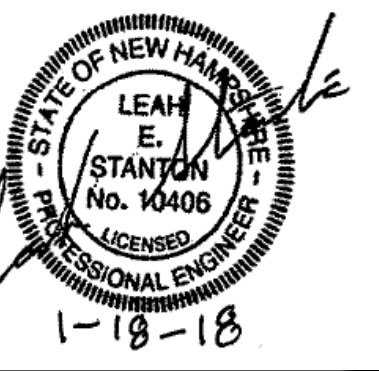
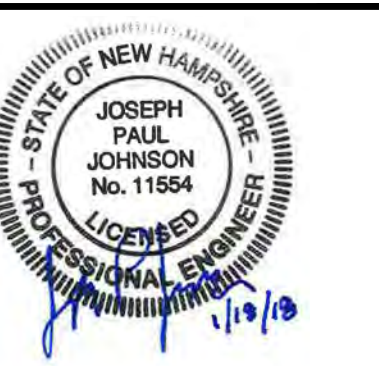
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ROADWAY PLAN & PROFILE - LESLIE DRIVE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'
2015086.00

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SMH-104 RIM=59.43 INV.A=51.23 INV.B=51.63	SMH-2794 RIM=28.47 INV.A=17.47 INV.B=17.17	SMH-2136 RIM=26.93 INV.A=19.56 INV.B=19.66	SMH-123 RIM=27.46 INV.A=15.36 INV.B=17.66	DMH-7 RIM=35.19 INV.A=25.99 INV.B=27.39 INV.C=27.49 INV.D=27.19 INV.E=29.69 INV.F=26.59 INV.G=30.29	DMH-21 RIM=22.90 INV.A=15.80 INV.B=16.10 INV.C=15.90 INV.D=15.40	CB-7 RIM=52.95 INV.A=47.45 INV.B=47.15 INV.C=48.45	CB-21 RIM=19.12 INV.A=15.72	CB-36 RIM=21.65 INV.A=19.75	
SMH-2128 RIM=58.85 INV.A=51.25 INV.B=51.45	SMH-81 RIM=24.05 INV.A=8.85 INV.B=19.05 INV.C=9.35	SMH-5180 RIM=28.56 INV.A=23.16 INV.B=23.36	SMH-1480 RIM=16.69 INV.A=8.59 INV.B=8.89 INV.C=13.19 INV.D=8.69	DMH-8 RIM=34.53 INV.A=32.73 INV.B=29.43		CB-8 RIM=52.85 INV.=48.35	CB-22 RIM=21.89 INV.A=18.59	CB-37 RIM=23.26 INV.A=17.86 INV.B=19.76	
SMH-2129 RIM=55.52 INV.A=46.92 INV.B=47.62 INV.C=47.22	SMH-25 RIM=20.06 INV.A=8.26 INV.B=8.66 INV.C=8.36	SMH-1032 RIM=25.99 INV.A=20.29 (TOP 8" PVC) INV.B=21.19 (CAPPED) INV.C=20.79 (TOP 8" PVC)	SMH-2370 RIM=11.88 INV.A=6.18 INV.B=6.28 INV.C=6.38	DMH-9 RIM=34.60 INV.A=25.70 INV.B=28.80 INV.C=25.60		CB-9 RIM=42.77 INV.A=35.47 INV.B=35.77 INV.C=35.42	CB-23 RIM=21.90 INV.A=14.10 INV.B=14.10	CB-41 RIM=16.93 INV.=13.33	
SMH-2132 RIM=54.96 INV.A=45.16 INV.B=45.46	SMH-26 RIM=20.86 INV.A=12.86 INV.B=12.96	SMH-84 RIM=25.19 INV.A=17.49 INV.B=17.59	SMH-1481 RIM=10.58 INV.A=3.88 INV.B=3.58	DMH-10 RIM=33.76 INV.A=32.36 INV.B=28.76		CB-10 RIM=42.27 INV.=35.57	CB-24 RIM=22.04 INV.A=18.54	CB-42 RIM= N/A INV.A=-7.30 INV.B=-6.50 INV.C=-7.10	
SMH-103 (OUTSIDE DROP) RIM=54.24 INV.A=43.34 INV.B=43.54 INV.C=50.84	SMH-1028 RIM=41.37 INV.A=36.47 INV.B=36.67 INV.C=36.77	SMH-83 RIM=20.02 INV.A=10.82 INV.B=10.92 INV.C=13.62 (OUTSIDE DROP)	SMH-1482 RIM=10.63 INV.A=4.13 INV.B=3.63	DMH-11 RIM=33.76 INV.A=32.06 INV.B=28.36 INV.C=28.26		CB-11 RIM=37.35 INV.A=26.85 INV.B=25.35 INV.C=25.35	CB-25 RIM=21.91 INV.A=19.91	CB-43 RIM= N/A INV.A=-2.30 INV.B=-2.60	
SMH-2360 (FORCE MAIN) RIM=56.35 INV.A=51.35 INV.B=51.45	SMH-73 RIM=25.88 INV.A=13.38 INV.B=13.58	SMH-85 RIM=22.74 INV.A=13.74 INV.B=13.84		DMH-12 RIM=33.84 (COULD NOT OPEN)		CB-12 RIM=35.32 INV.A=28.92 INV.B=28.92	CB-26 RIM=26.23	CB-51 RIM=127.29 INV.= N/A	
SMH-102 RIM=51.98 INV.A=41.68 INV.B=41.88 INV.C=41.98	SMH-29 RIM=22.72 INV.A=15.92 INV.B=16.12 INV.C=16.42	SMH-86 RIM=23.87 INV.A=18.67 INV.B=18.77		DMH-13 RIM=31.08 INV.A=22.88 INV.B=22.58 INV.C=UNKOWN		CB-13 RIM=35.33 INV.=30.93	CB-27 RIM=27.58 INV.A=24.88	CB-52 RIM=28.31 INV.A=25.61 INV.B=25.61	
SMH-101 RIM=46.27 INV.A=39.77 INV.B=39.97	SMH-2140 RIM=22.41 INV.A=14.21 INV.B=14.41	SMH-82 RIM=15.33 INV.A=10.03 INV.B=10.13		DMH-50 RIM=28.29 INV.A=20.64 INV.B=20.61 INV.C=24.85 INV.D=24.47		CB-14 RIM=34.45 INV.A=32.85	CB-28 RIM=18.25 INV.A=15.95 INV.B=16.05	CB-53 RIM=28.48 INV.=25.80	

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**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

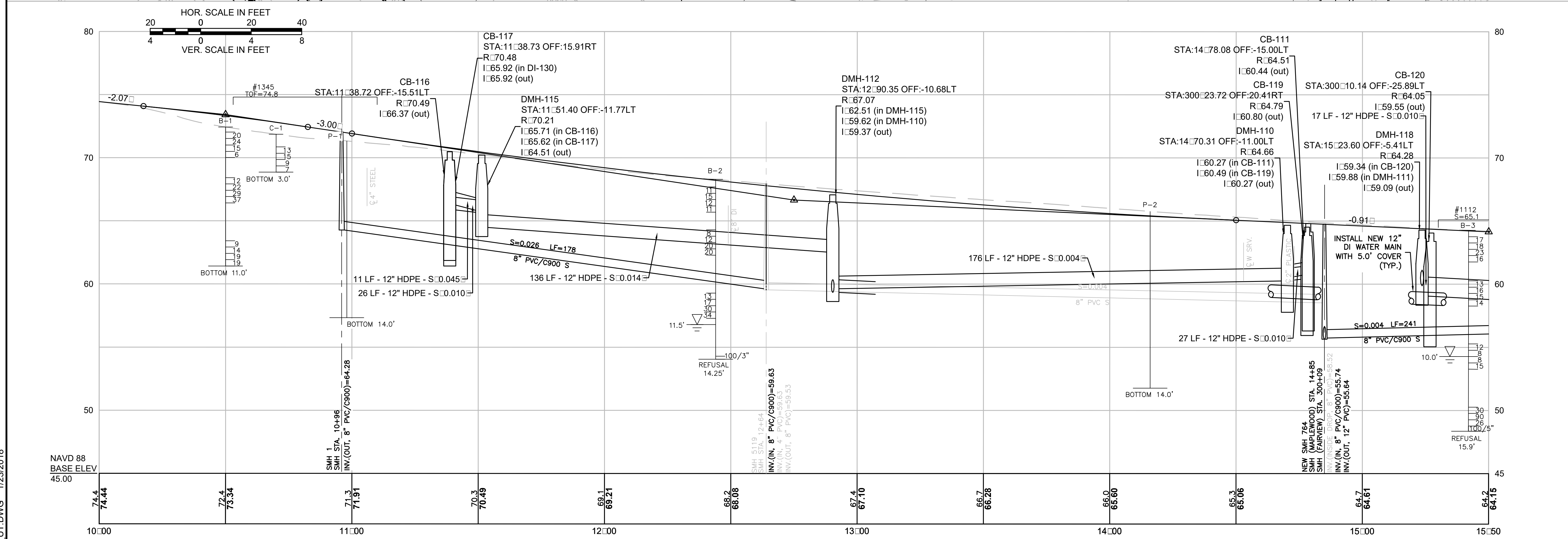
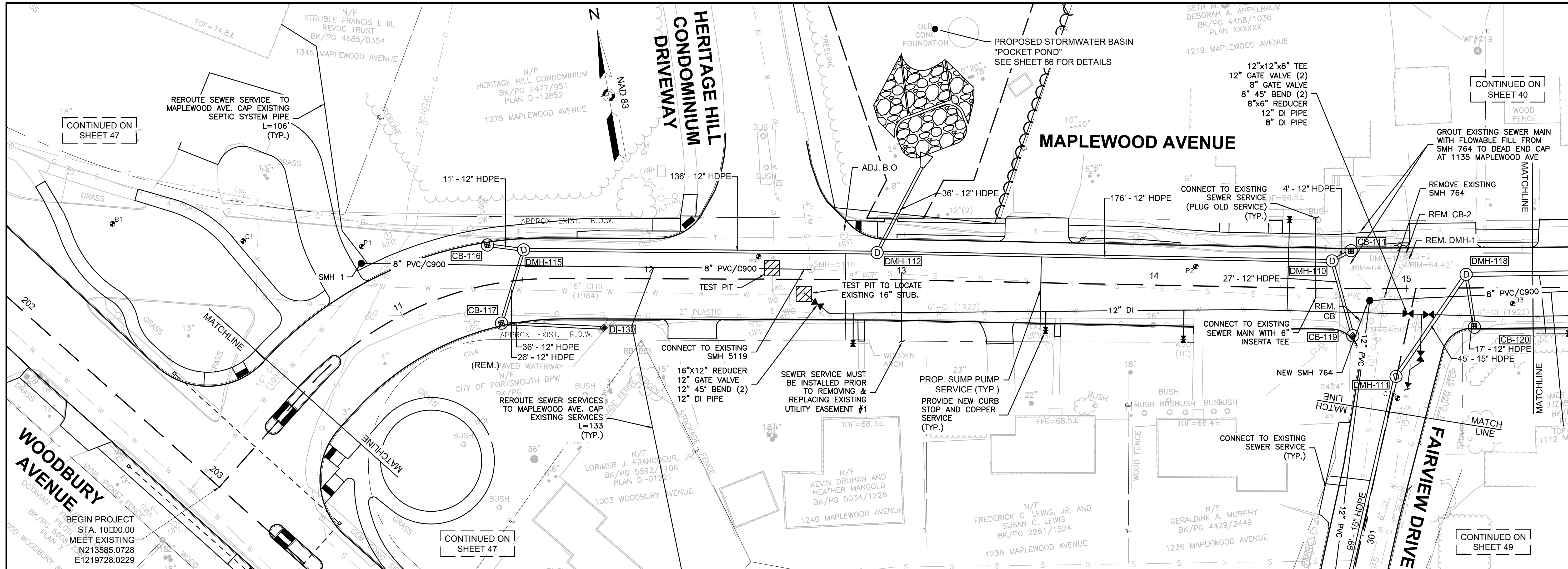
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NO.	REVISION	DATE

**EXISTING
DRAIN &
SEWER DATA**

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VERT: 1" = 4'

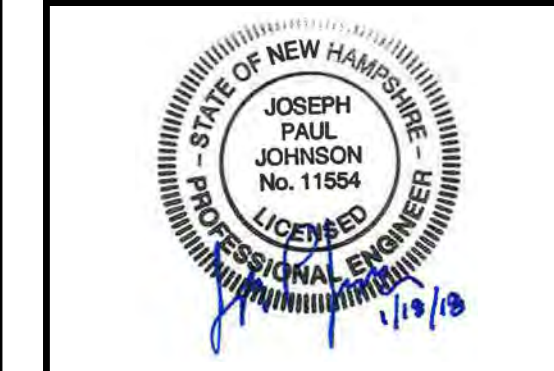
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

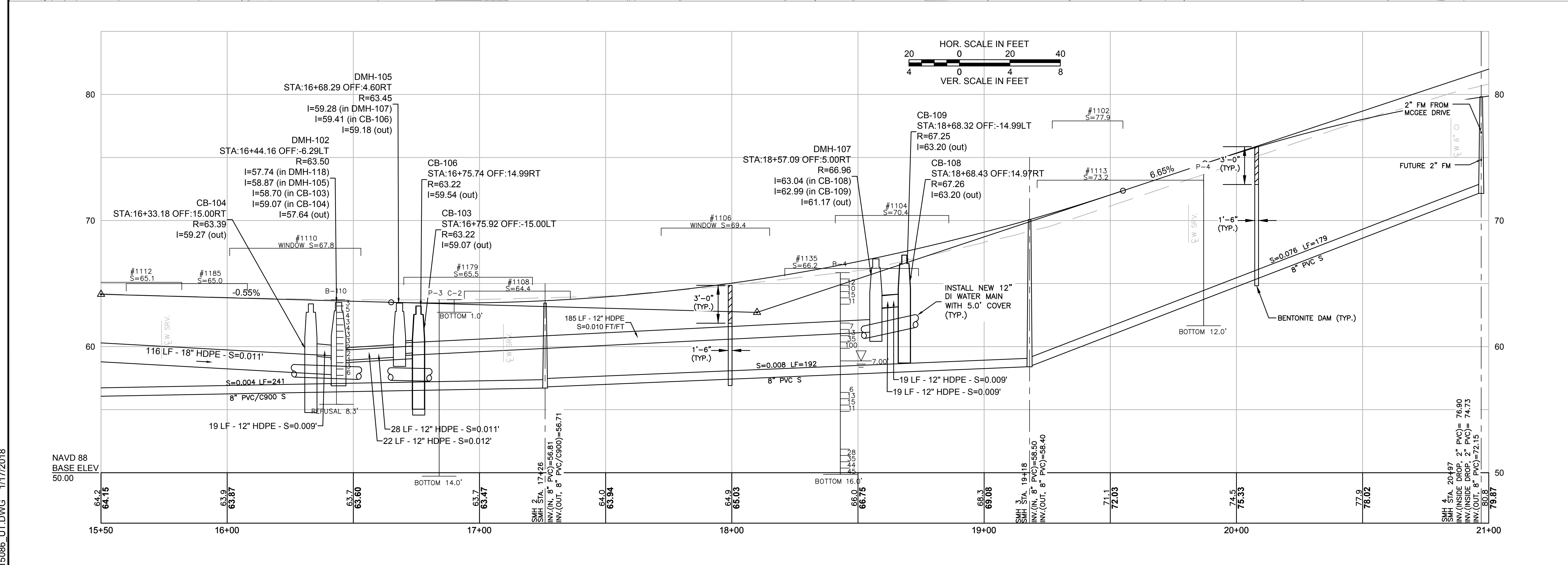
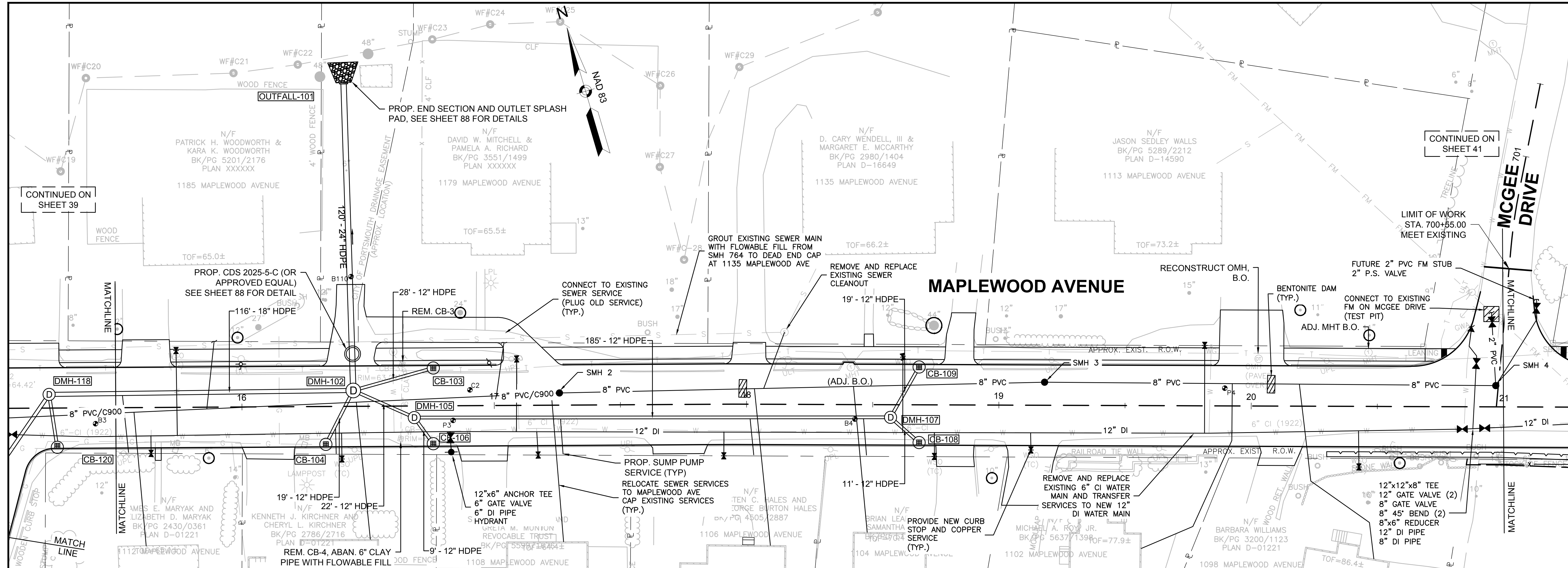
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DRAWN/DESIGN BY: CLS/TLT CHECKED BY: JPJ/LES

**UTILITY PLAN & PROFILE -
MAPLEWOOD AVENUE**

SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

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www.westonandsampson.com

JOSEPH PAUL JOHNSON
No. 11564
LICENSED PROFESSIONAL ENGINEER
1-18-18

LEAH E. STANTON
No. 14406
LICENSED PROFESSIONAL ENGINEER
1-18-18

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MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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NO.	REVISION	DATE

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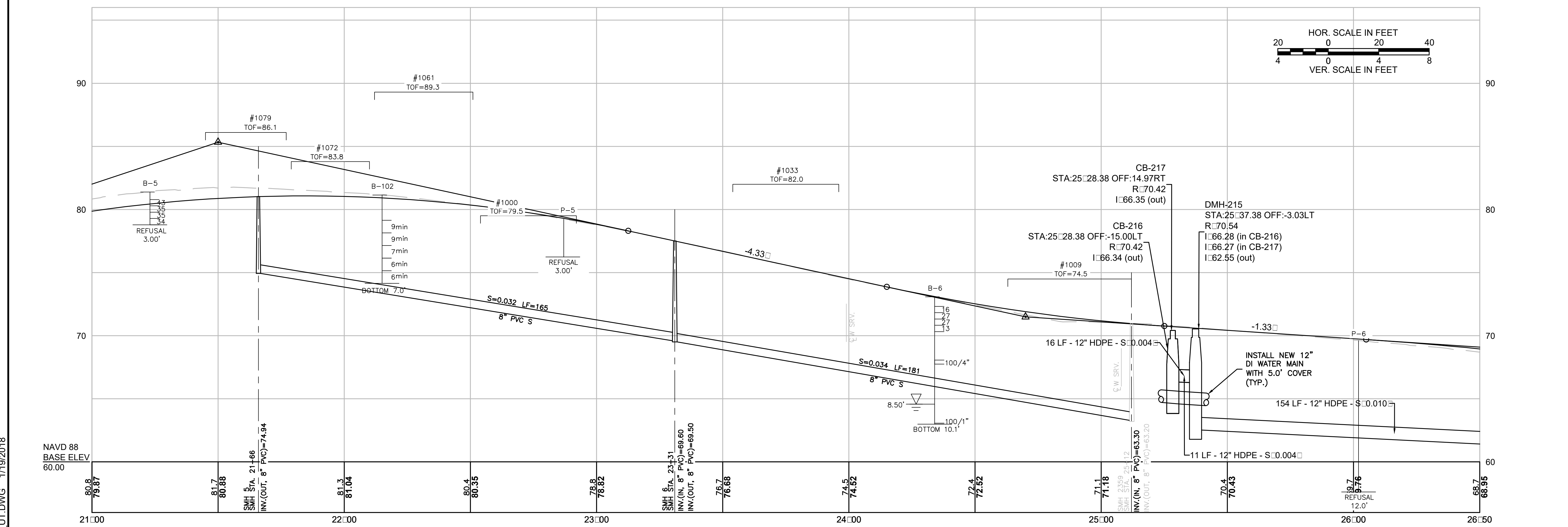
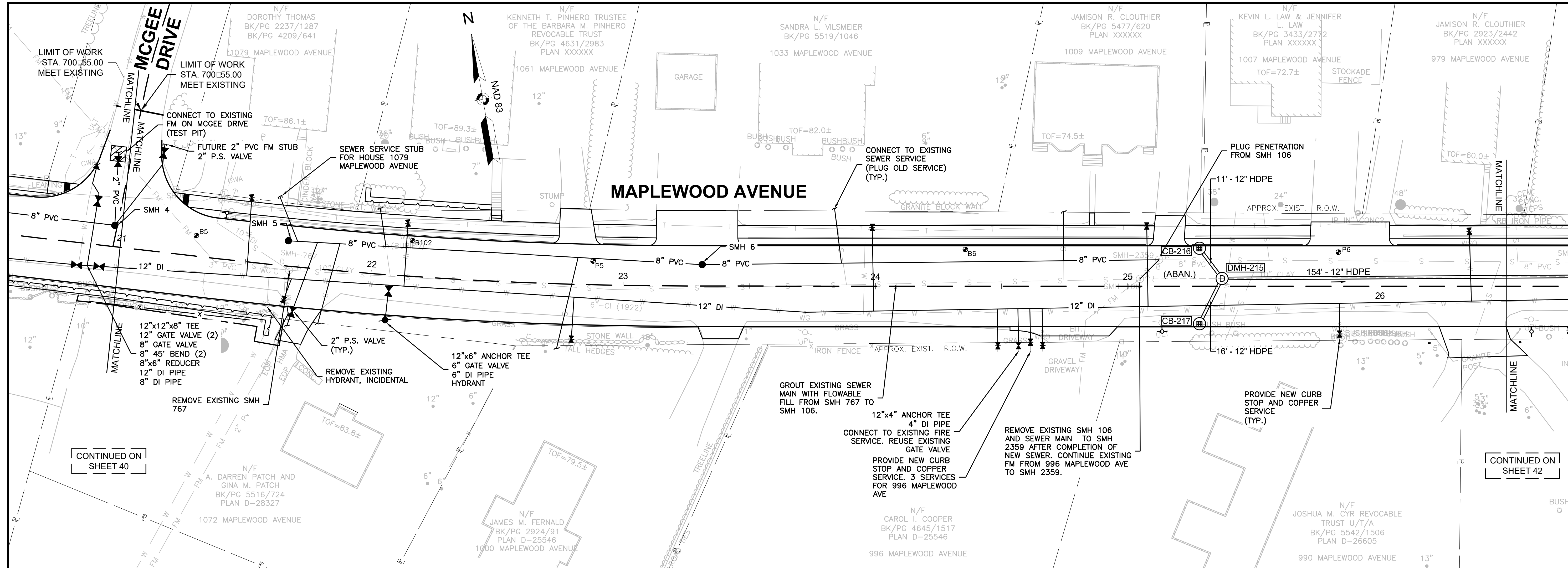
UTILITY PLAN & PROFILE - MAPLEWOOD AVENUE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

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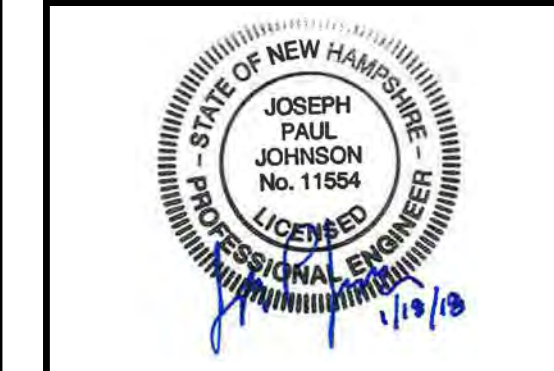
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

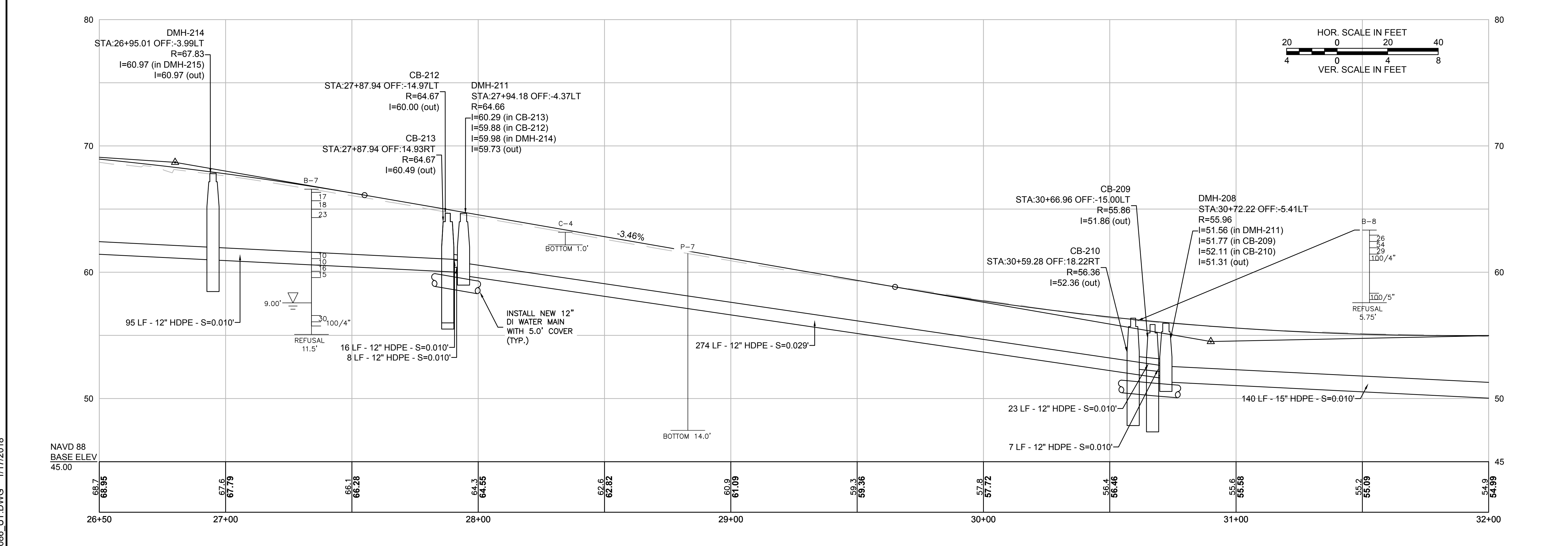
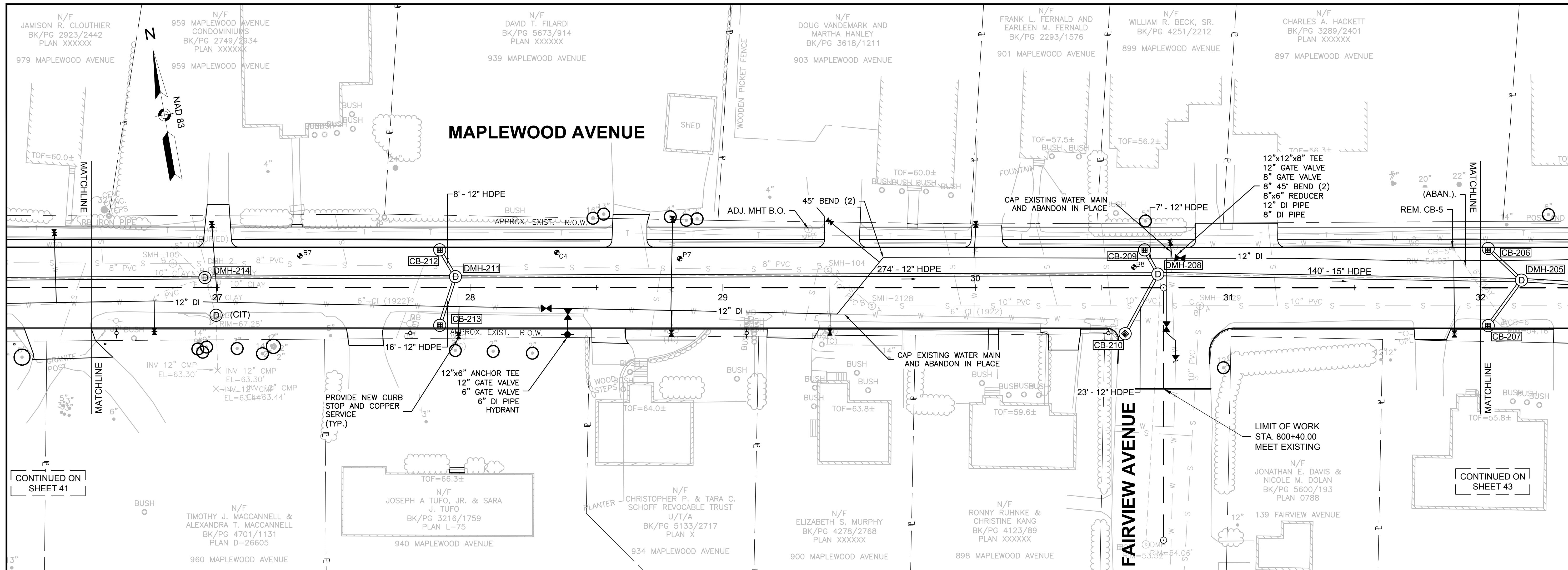
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**UTILITY PLAN
 & PROFILE -
 MAPLEWOOD
 AVENUE**

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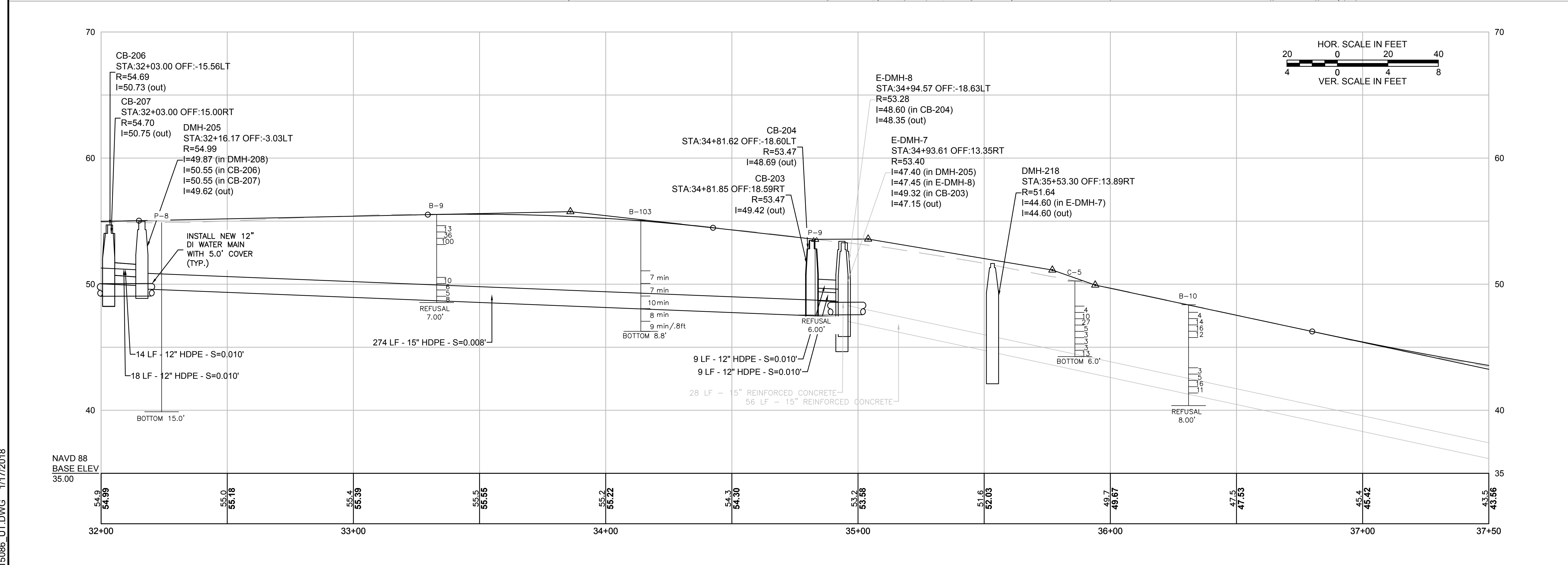
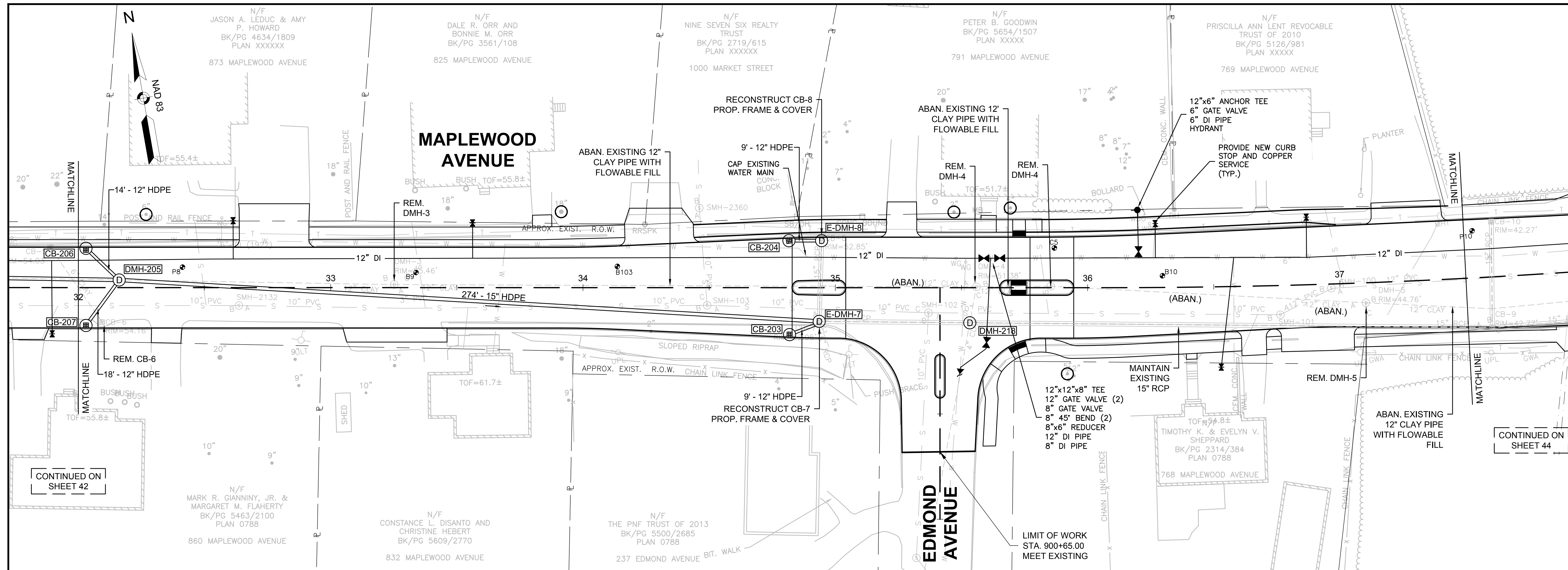
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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UTILITY PLAN & PROFILE - MAPLEWOOD AVENUE
 SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'
 2015086.00
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15086_UT.DWG 1/17/2018



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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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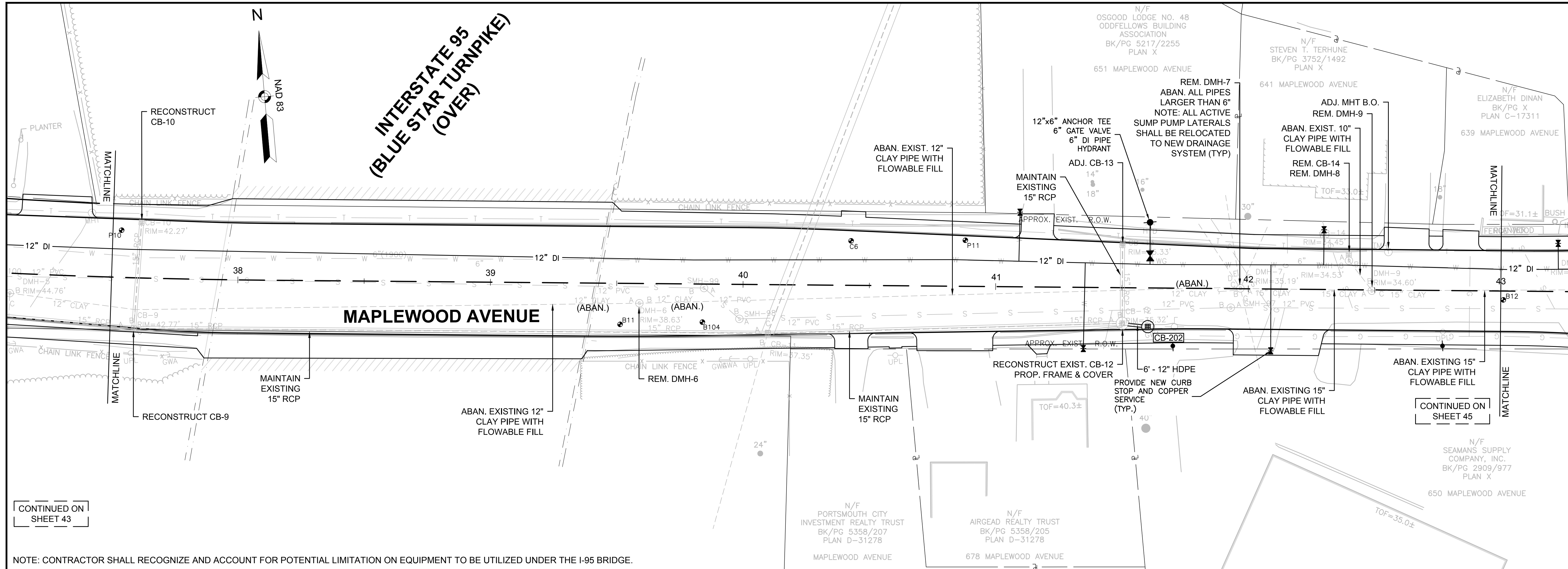
**UTILITY PLAN
 & PROFILE -
 MAPLEWOOD
 AVENUE**

SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'

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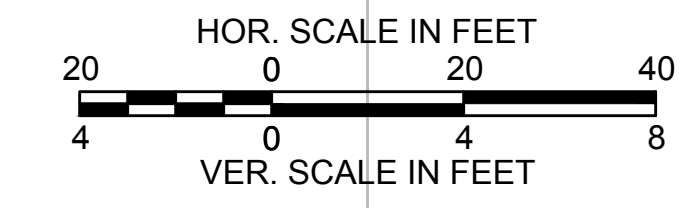
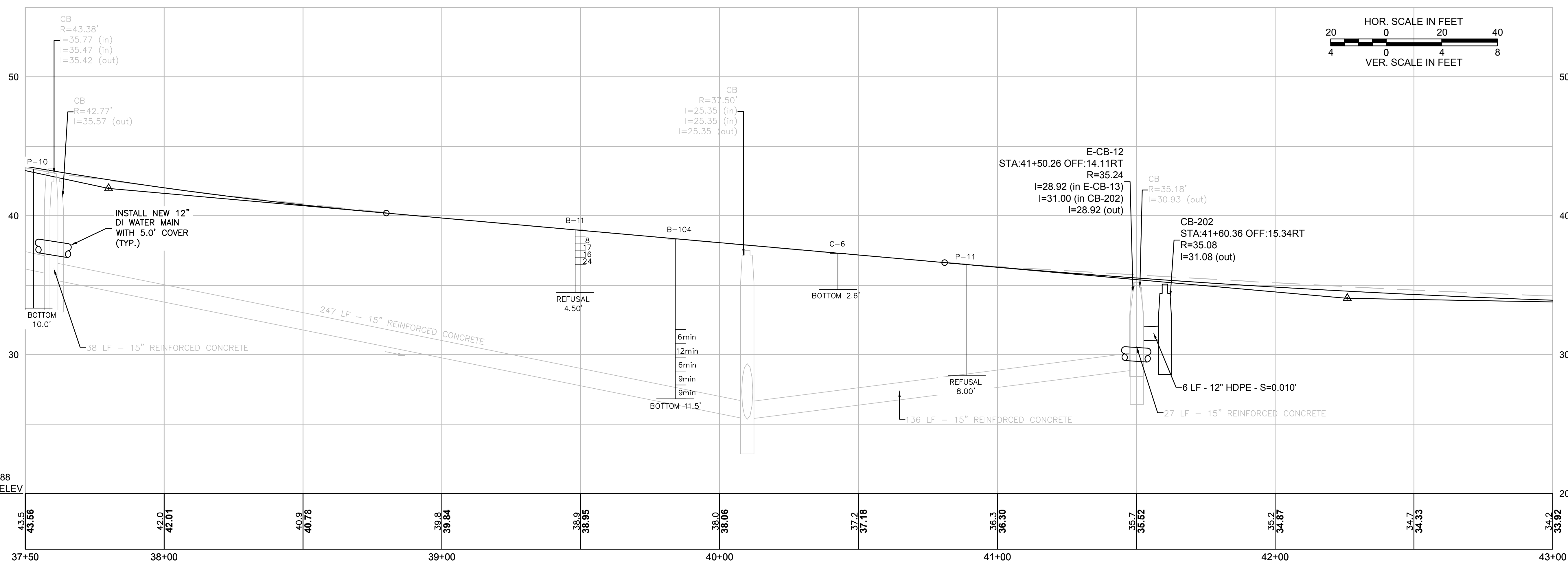
43 OF 184

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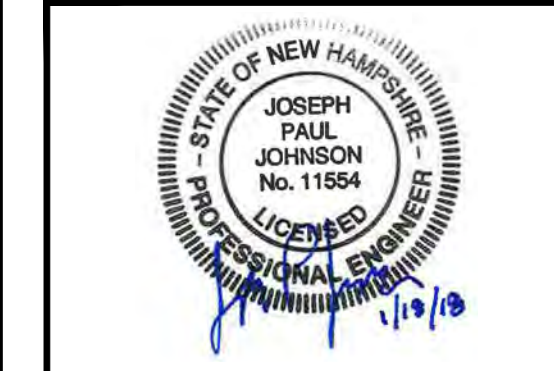
CONTINUED ON SHEET 43

NOTE: CONTRACTOR SHALL RECOGNIZE AND ACCOUNT FOR POTENTIAL LIMITATION ON EQUIPMENT TO BE UTILIZED UNDER THE I-95 BRIDGE.



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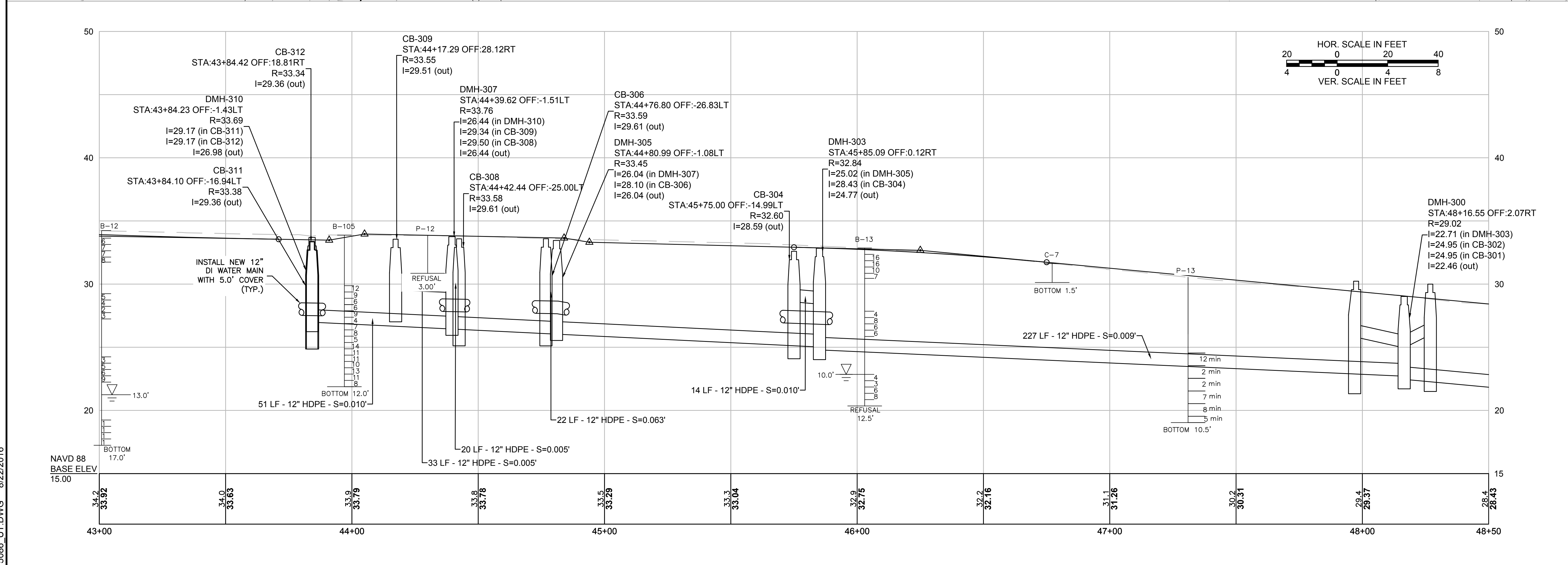
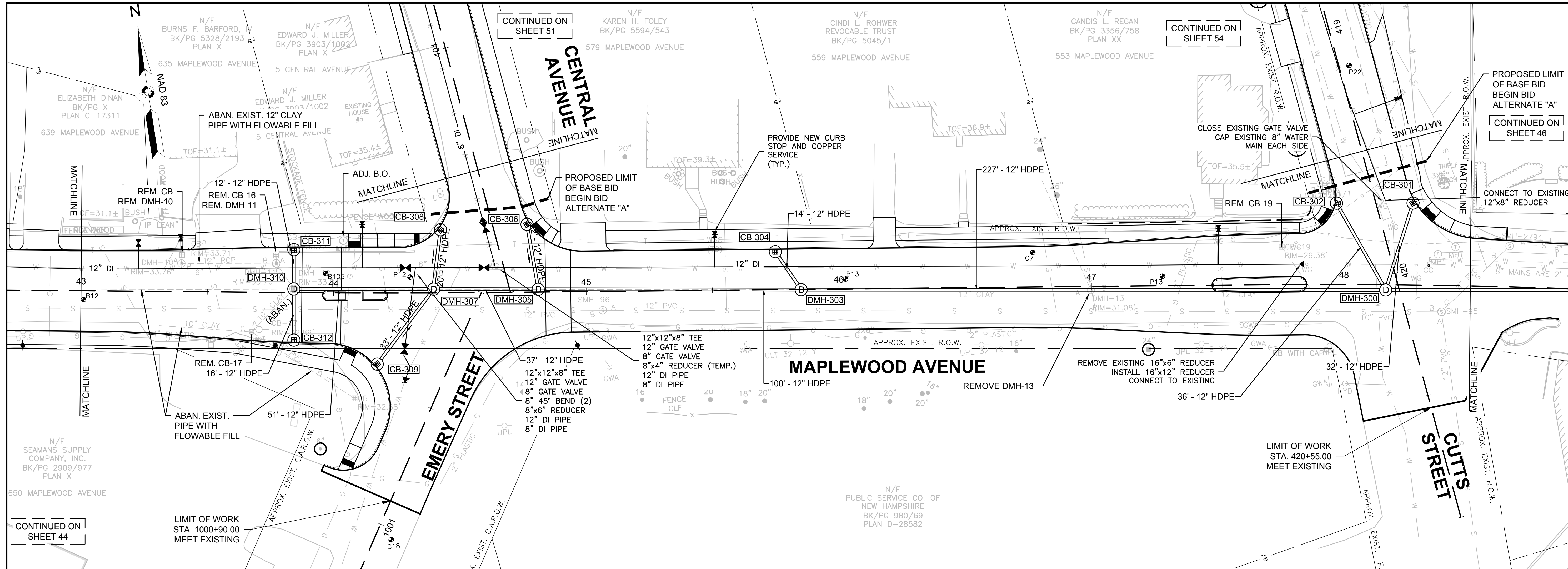
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IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH

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UTILITY PLAN & PROFILE - MAPLEWOOD AVENUE
 SCALE: HORIZ: 1" = 20'
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 1/18/18

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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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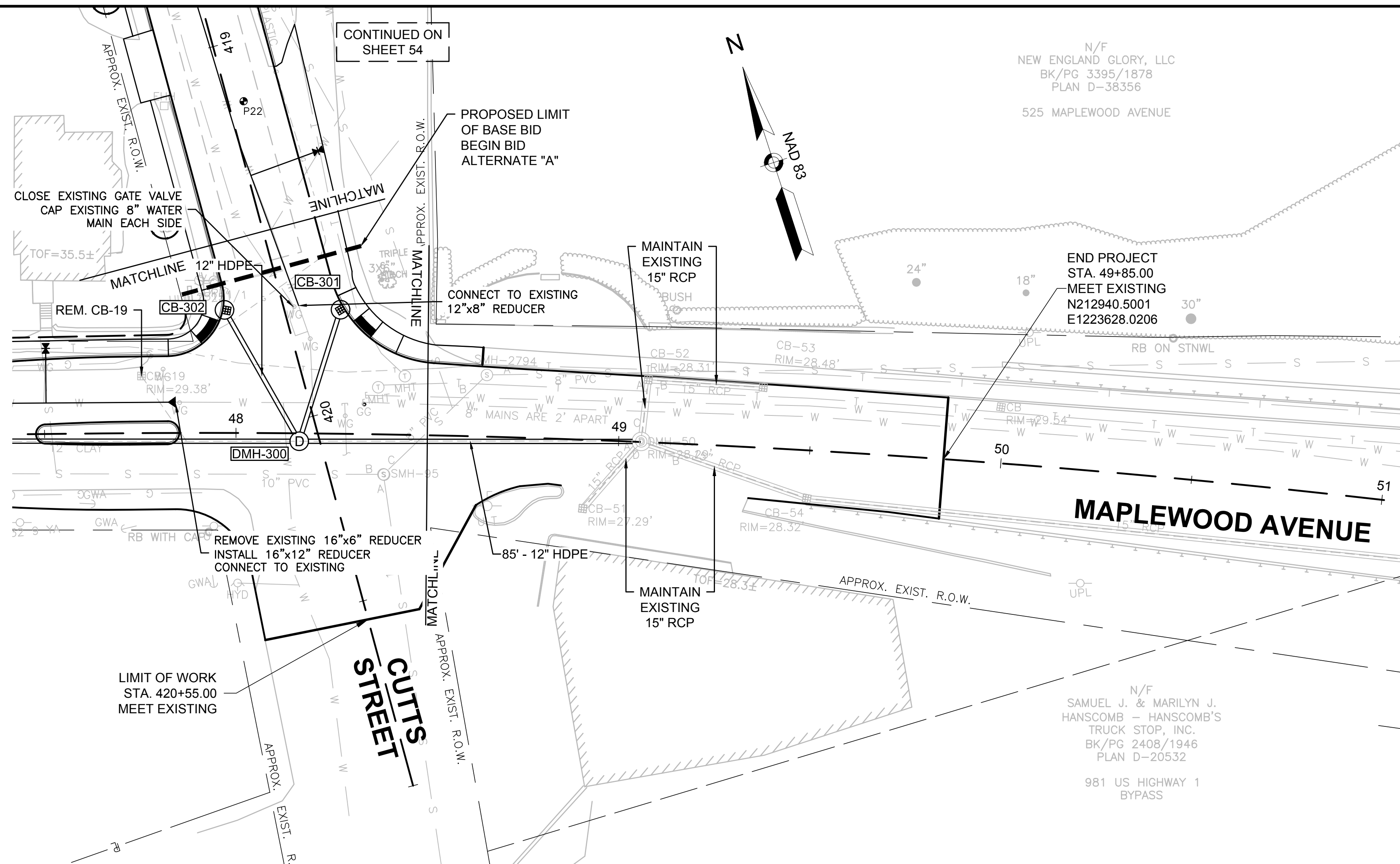
UTILITY PLAN & PROFILE - MAPLEWOOD AVENUE

SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'

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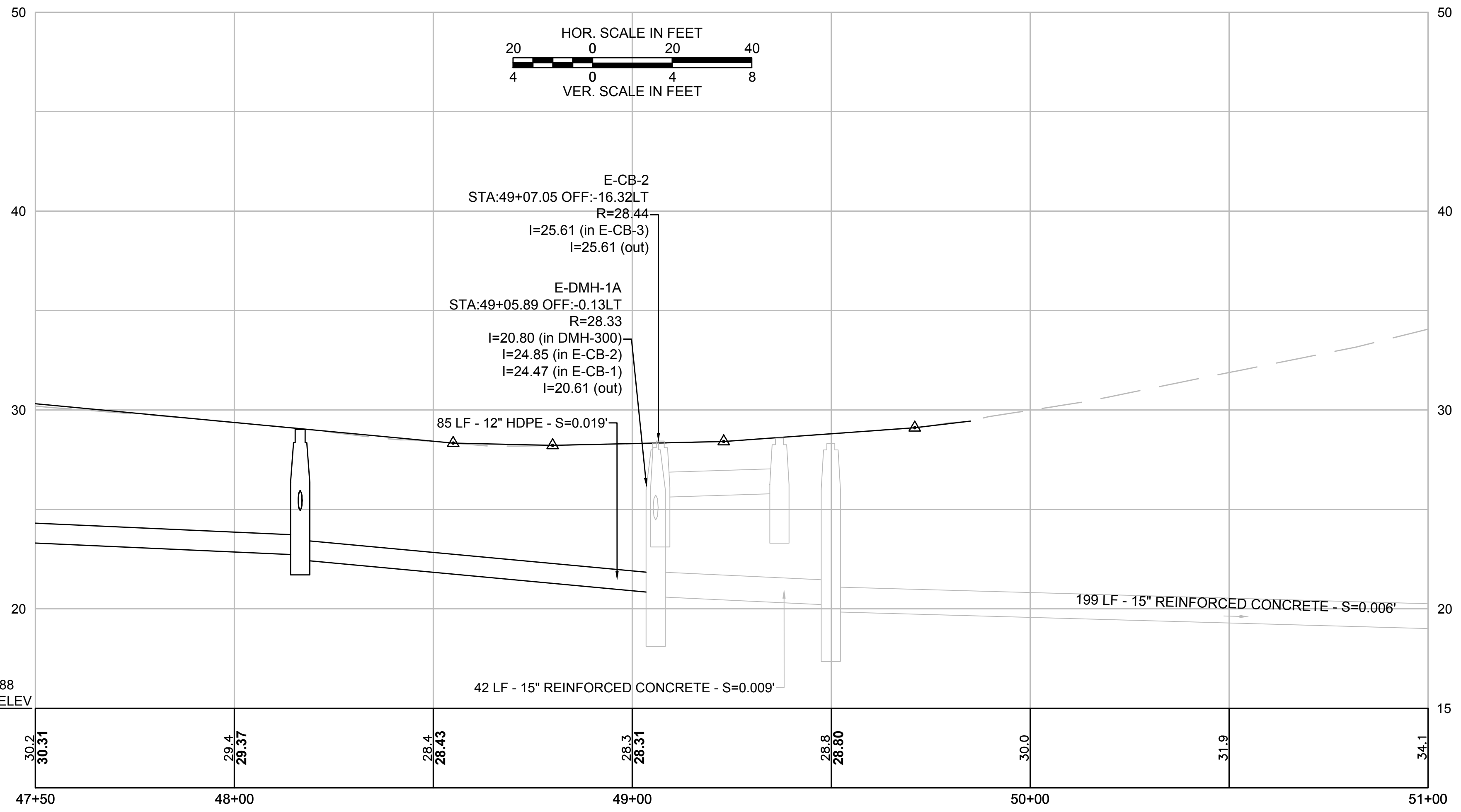
45 OF 184

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CONTINUED ON SHEET 45

CUTS STREET



NAVD 88
BASE ELEV
15.00

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MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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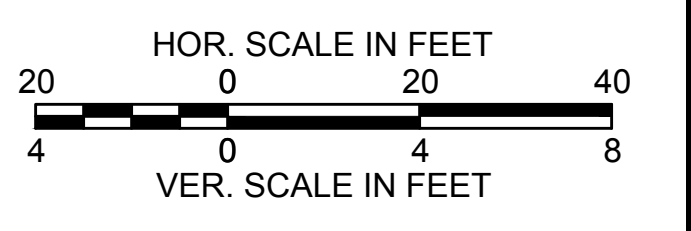
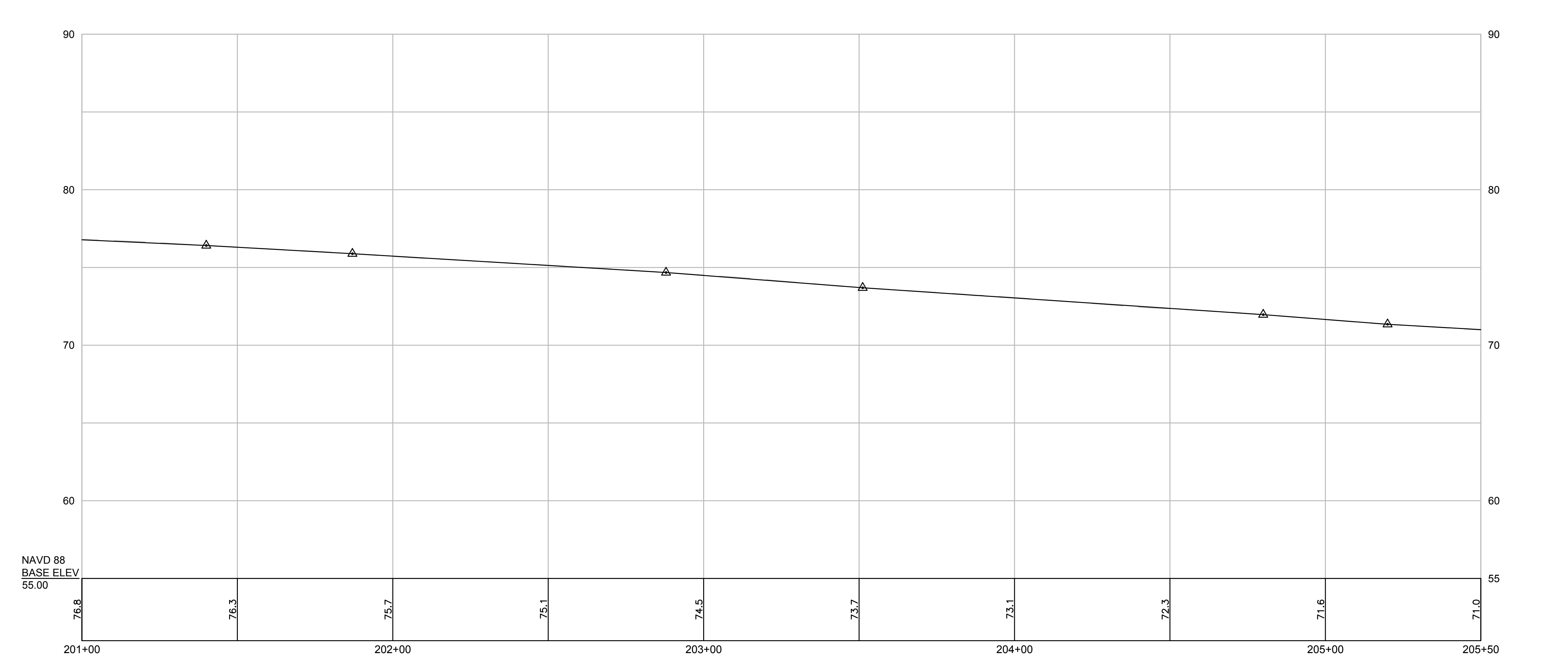
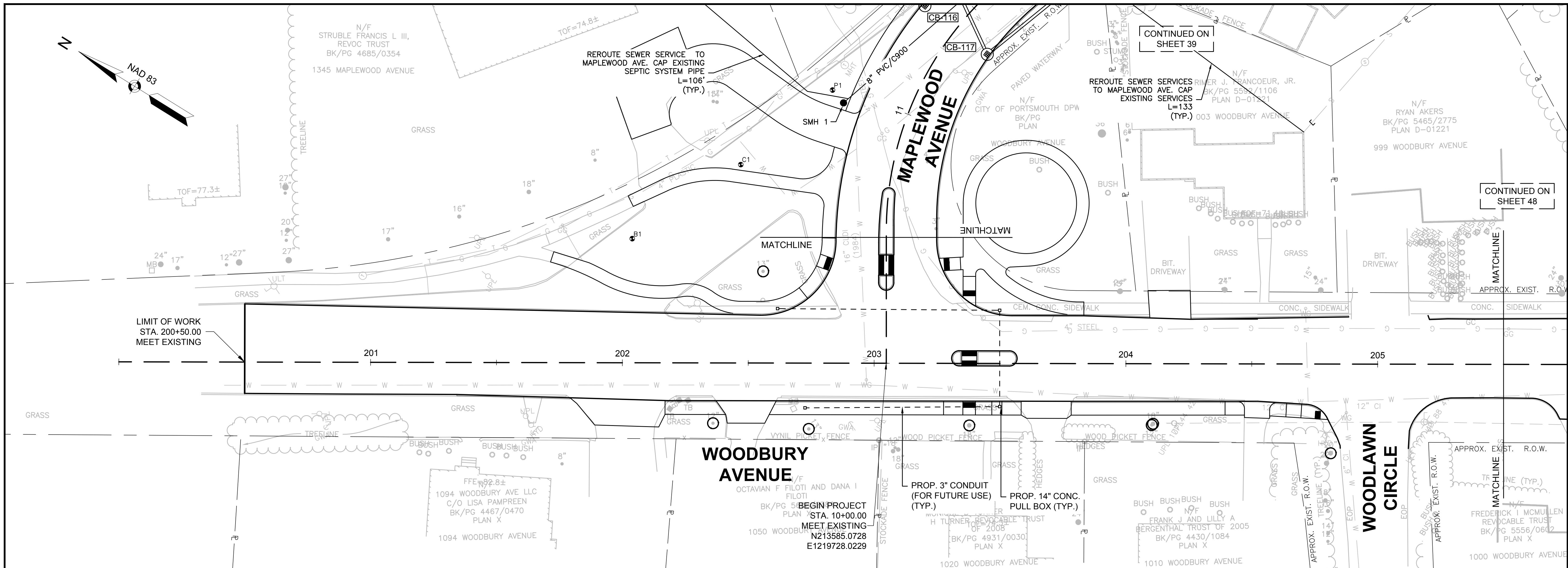
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**UTILITY PLAN
& PROFILE -
MAPLEWOOD
AVENUE**

SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

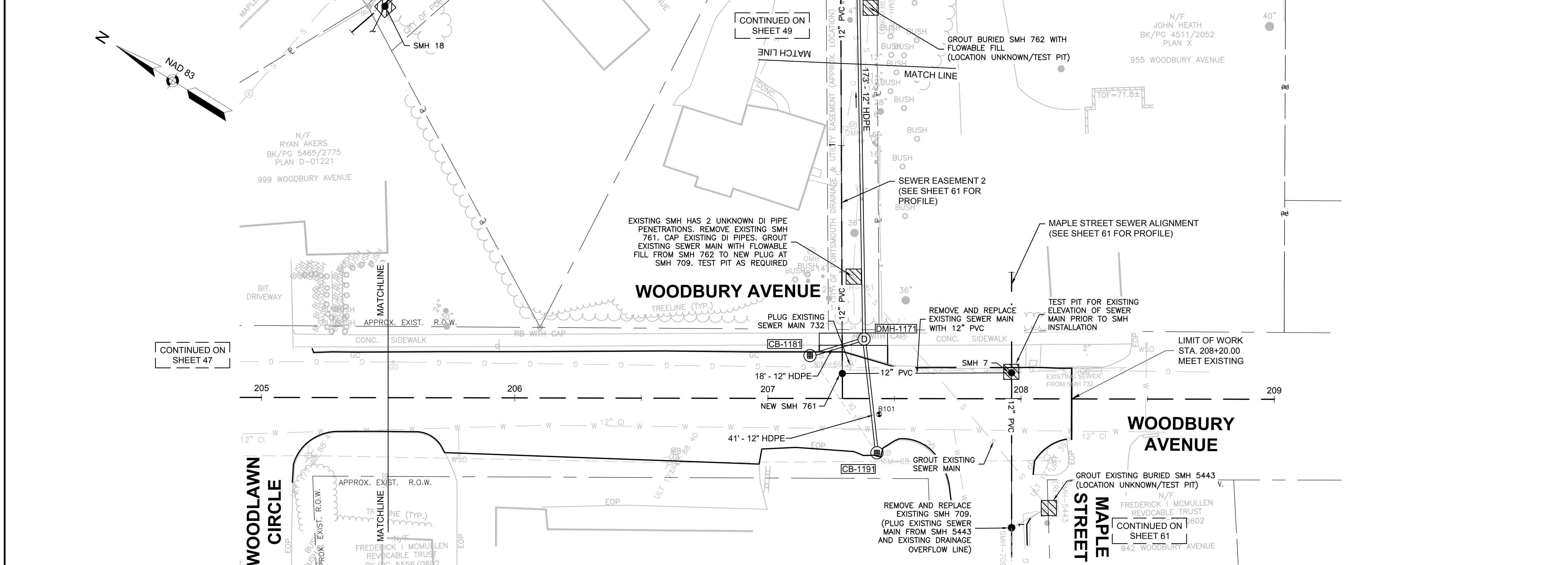
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**UTILITY PLAN
 & PROFILE -
 WOODBURY AVENUE**

SCALE: HORIZ: 1" = 20'
 VERT: 1" = 4'

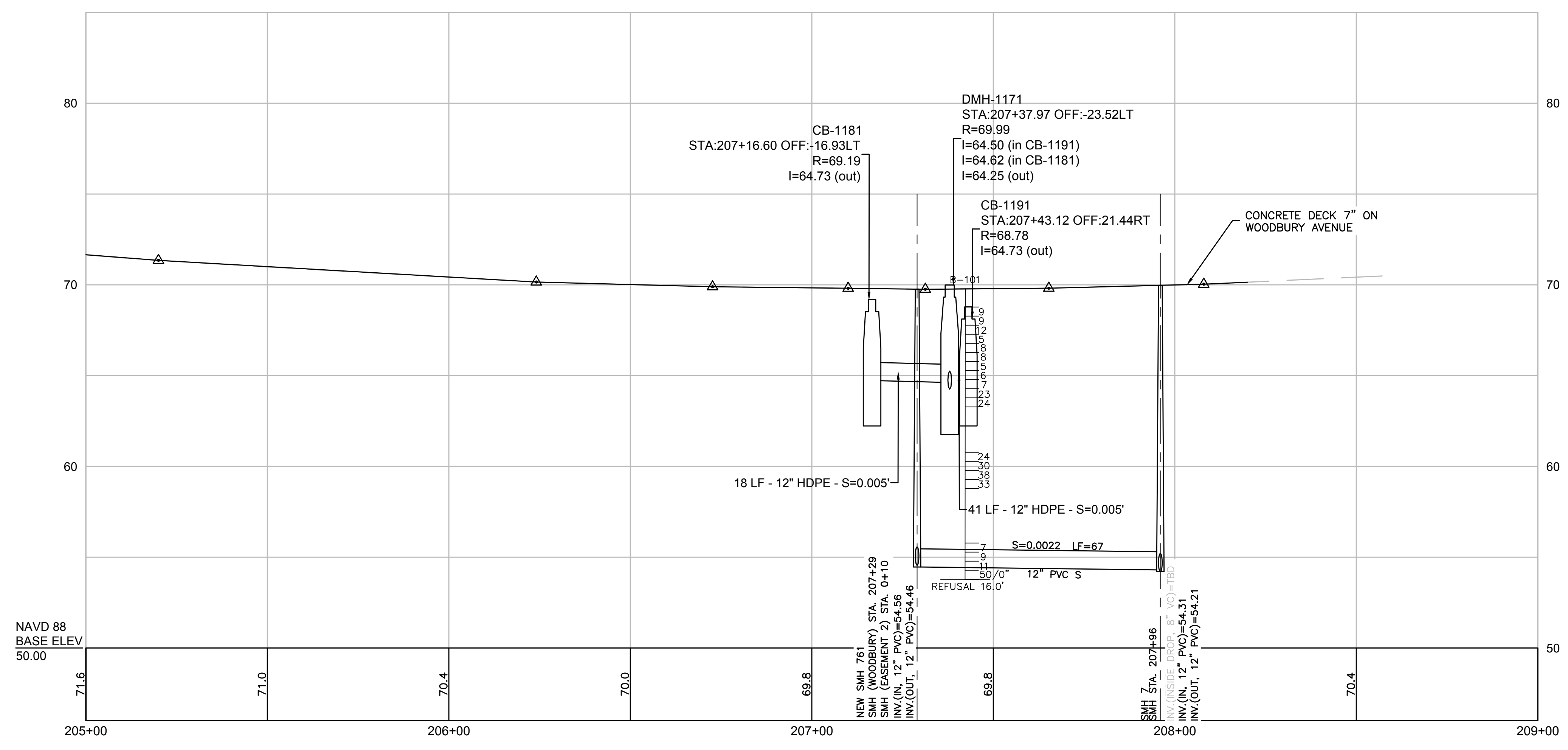
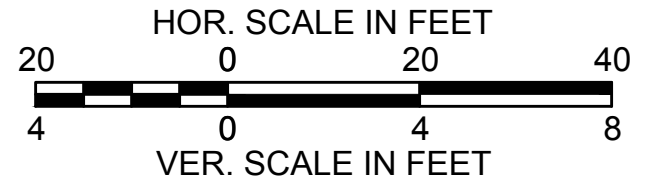
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CONTINUED ON SHEET 47

CONTINUED ON SHEET 49

CONTINUED ON SHEET 61



NAVD 88
BASE ELEV
50.00

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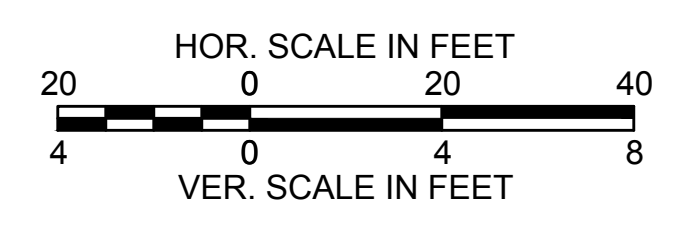
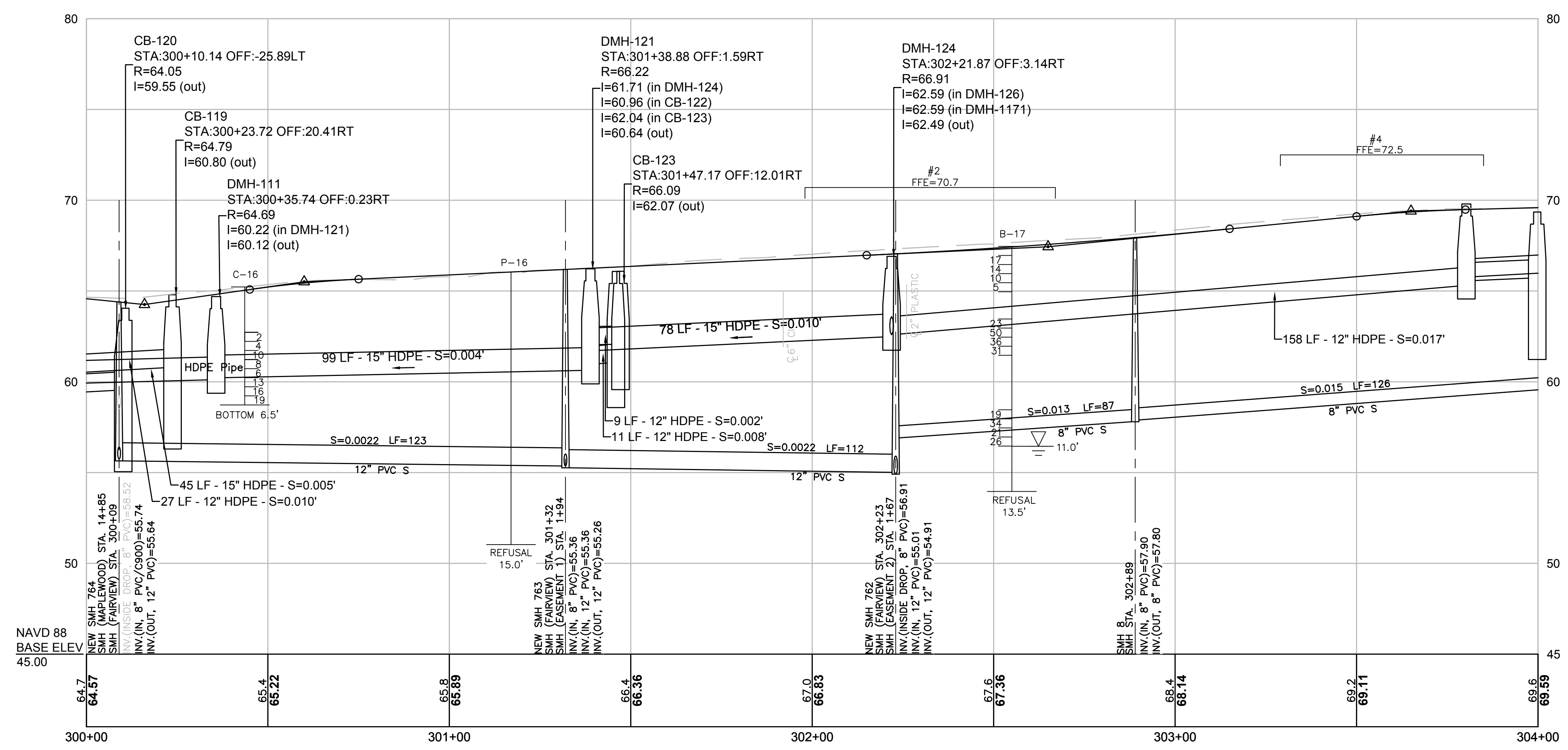
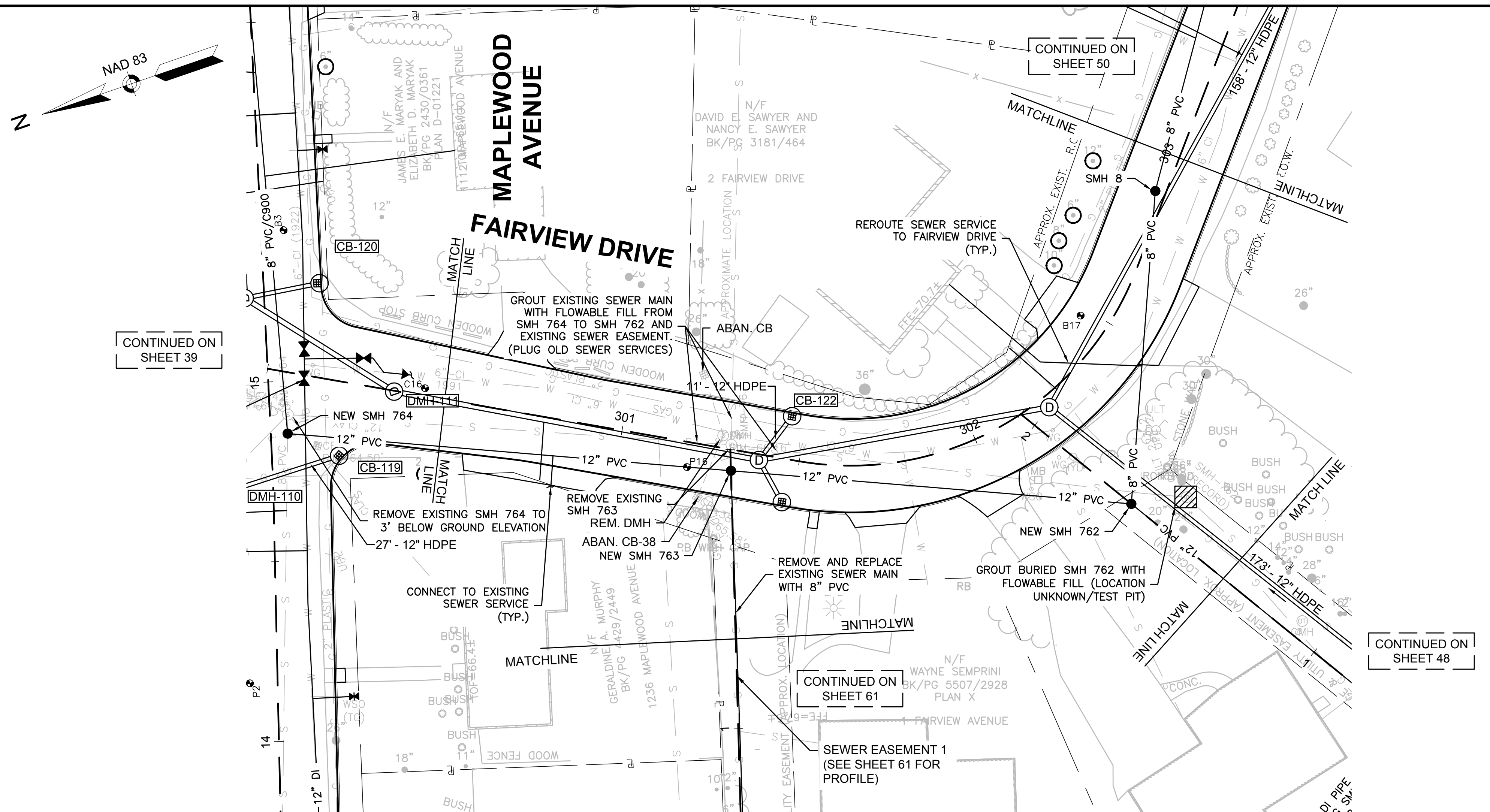
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**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS	
REVISION	DATE

**UTILITY PLAN
& PROFILE -
WOODBURY
AVENUE**

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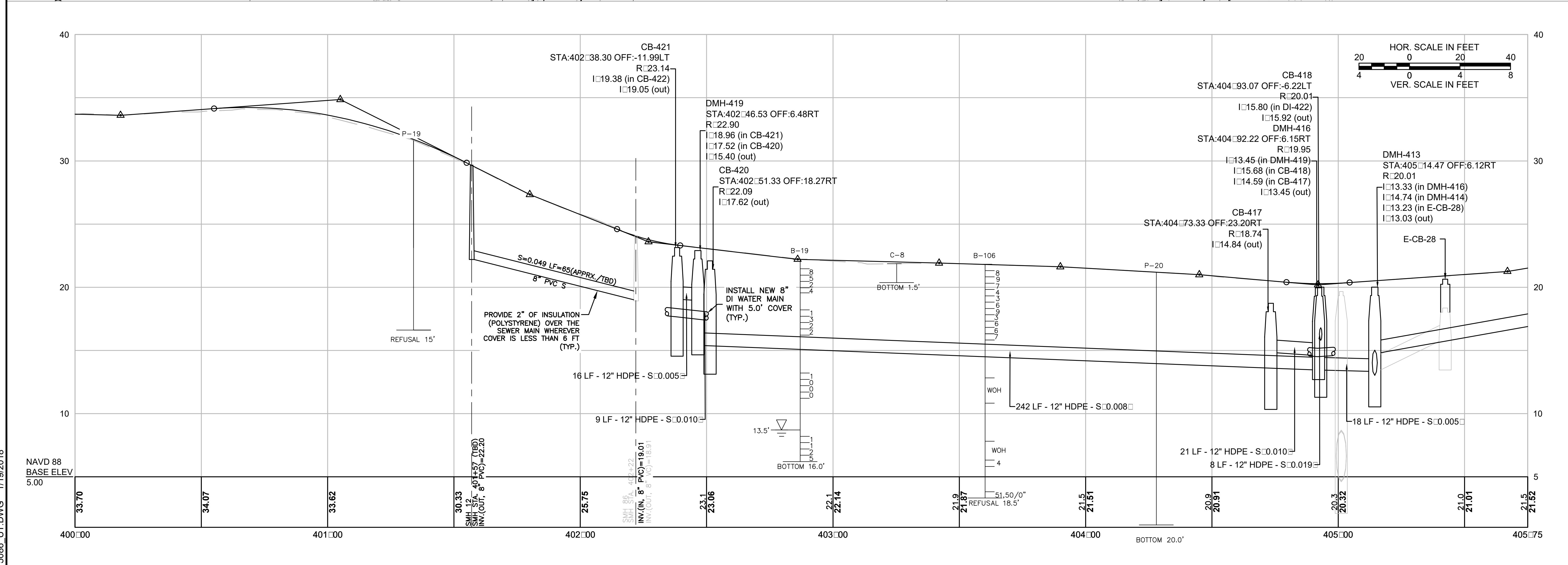
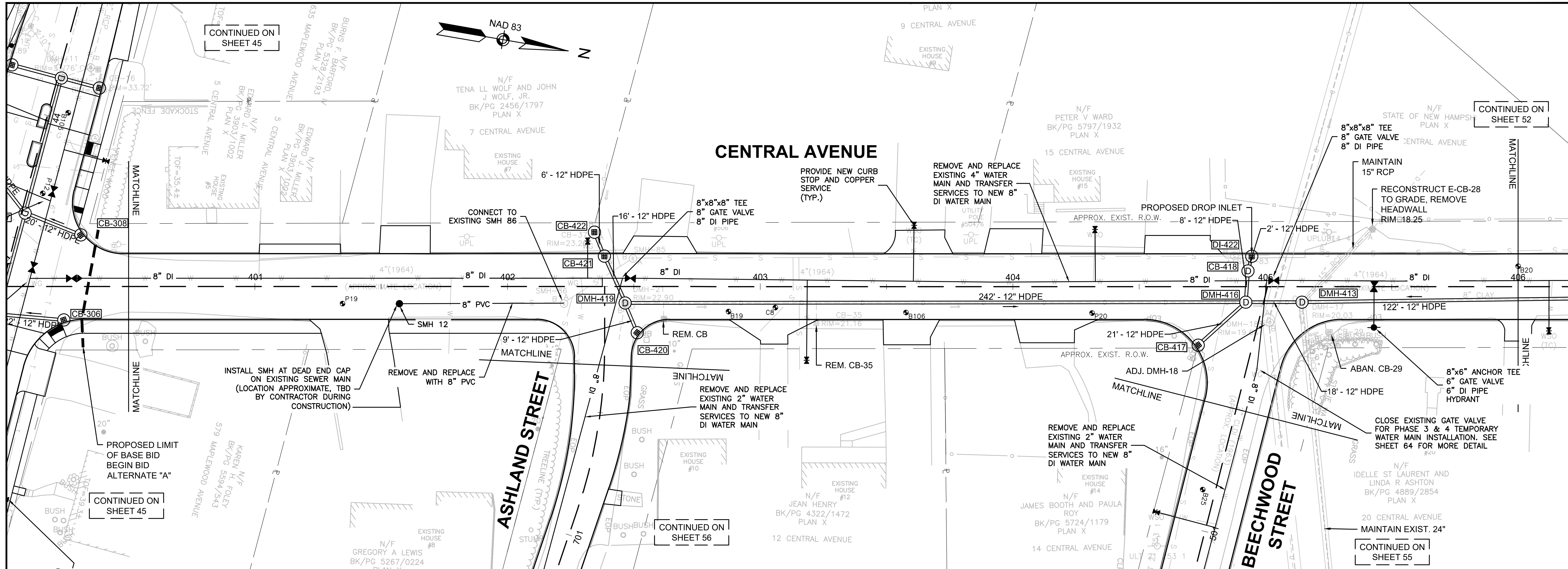


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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

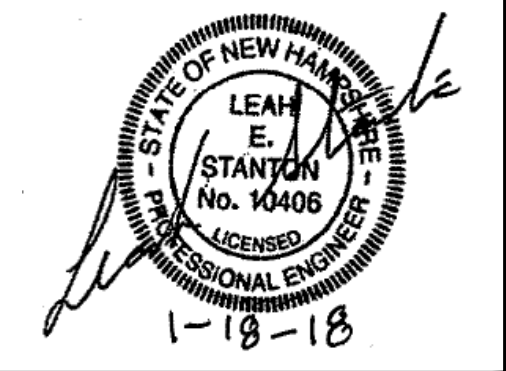
REVISIONS	
REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS/TLT CHECKED BY: JPP/JES
 UTILITY PLAN & PROFILE - FAIRVIEW DRIVE
 HORIZ: 1" = 20'
 VERT: 1" = 4'
 2015086.00
 49 OF 184



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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

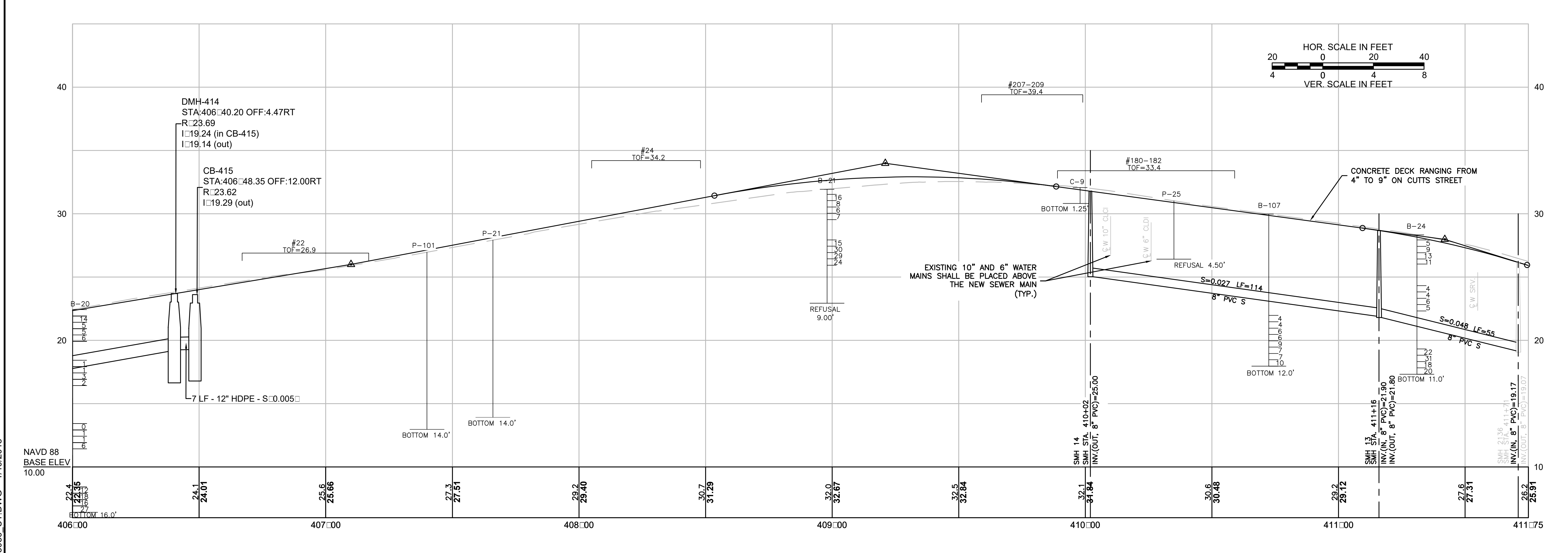
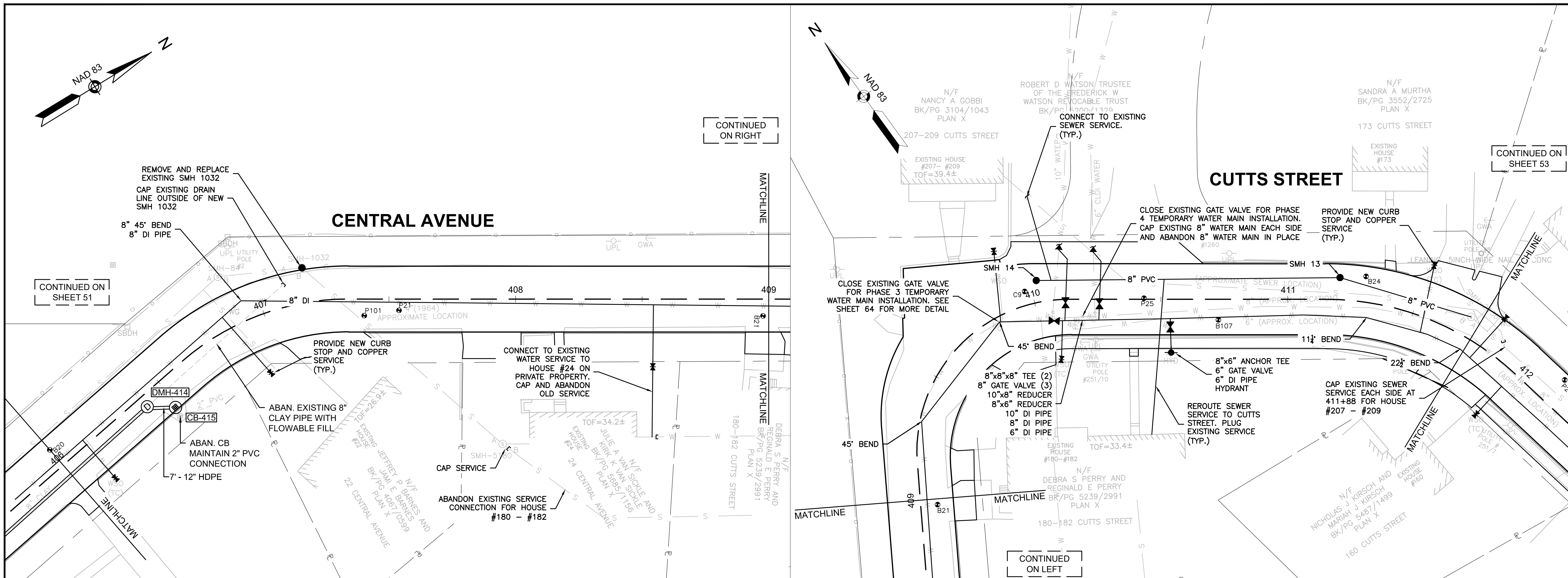
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REVISION	DATE

**UTILITY PLAN
 & PROFILE -
 CENTRAL
 AVENUE**

HORI: 1" = 20'
 VERT: 1" = 4'

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 51 of 184

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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

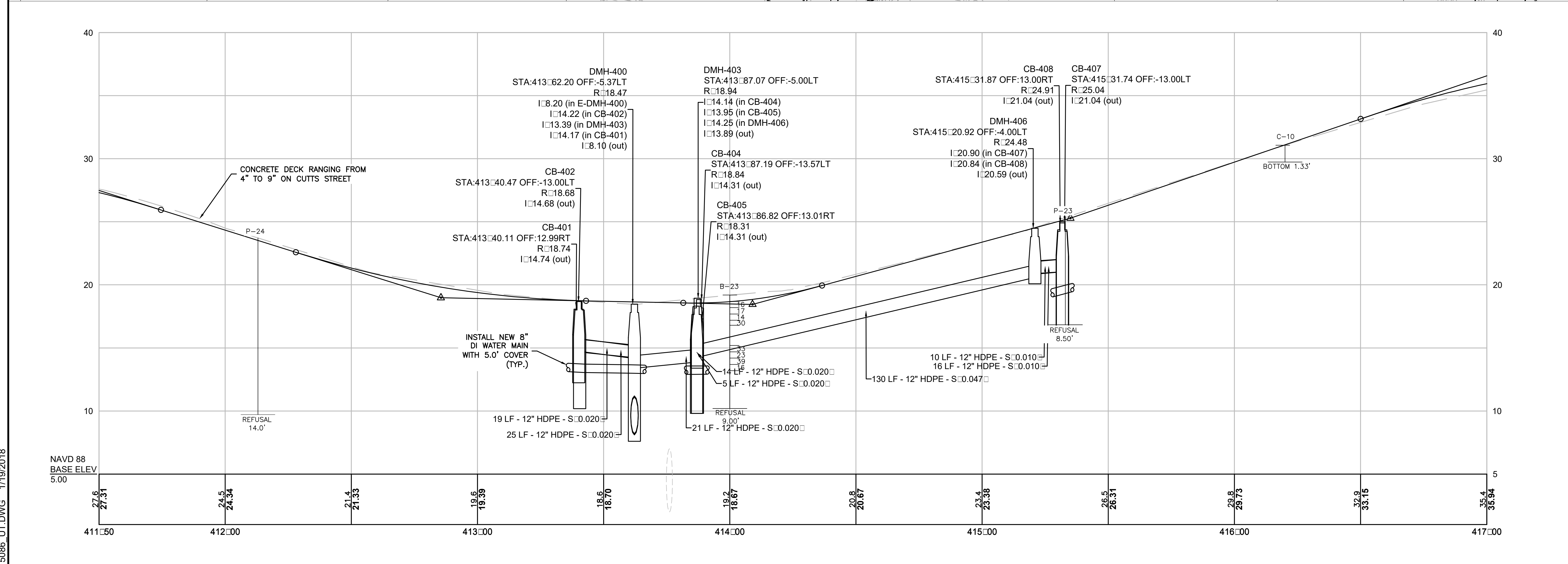
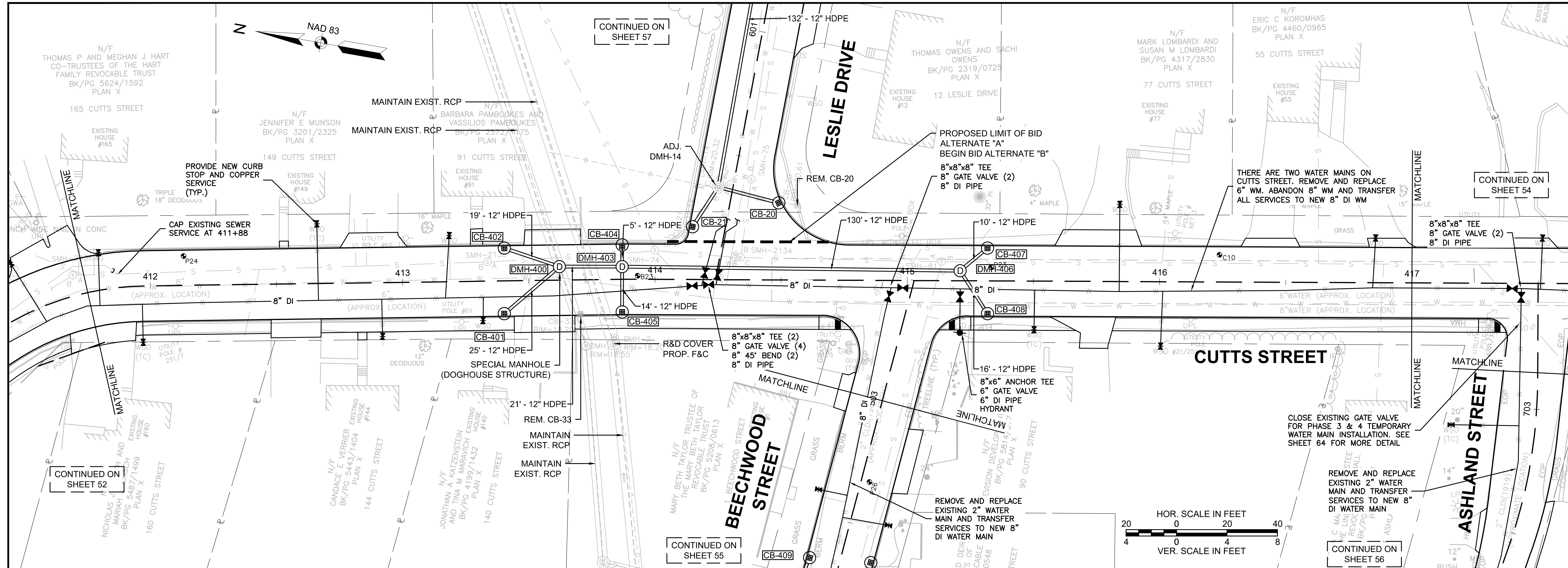
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REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS/TLT
 CHECKED BY: JPJ/LES

**UTILITY PLAN & PROFILE -
 CENTRAL & CUTTS**

HORI: 1" = 20'
 VERT: 1" = 4'
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JOSEPH PAUL JOHNSON
 No. 11564
 LICENSED PROFESSIONAL ENGINEER
 1/18/18

LEAH E. STANTON
 No. 14406
 LICENSED PROFESSIONAL ENGINEER
 1-18-18

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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISION	DATE

1/18/2018
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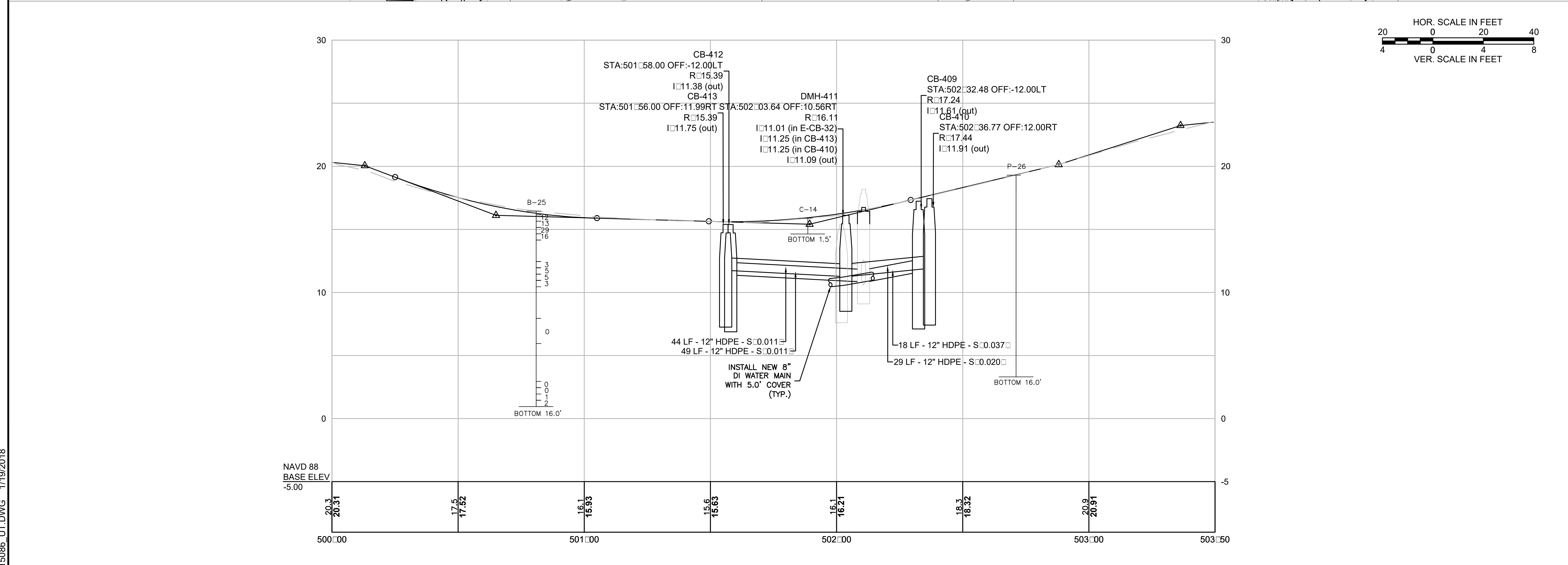
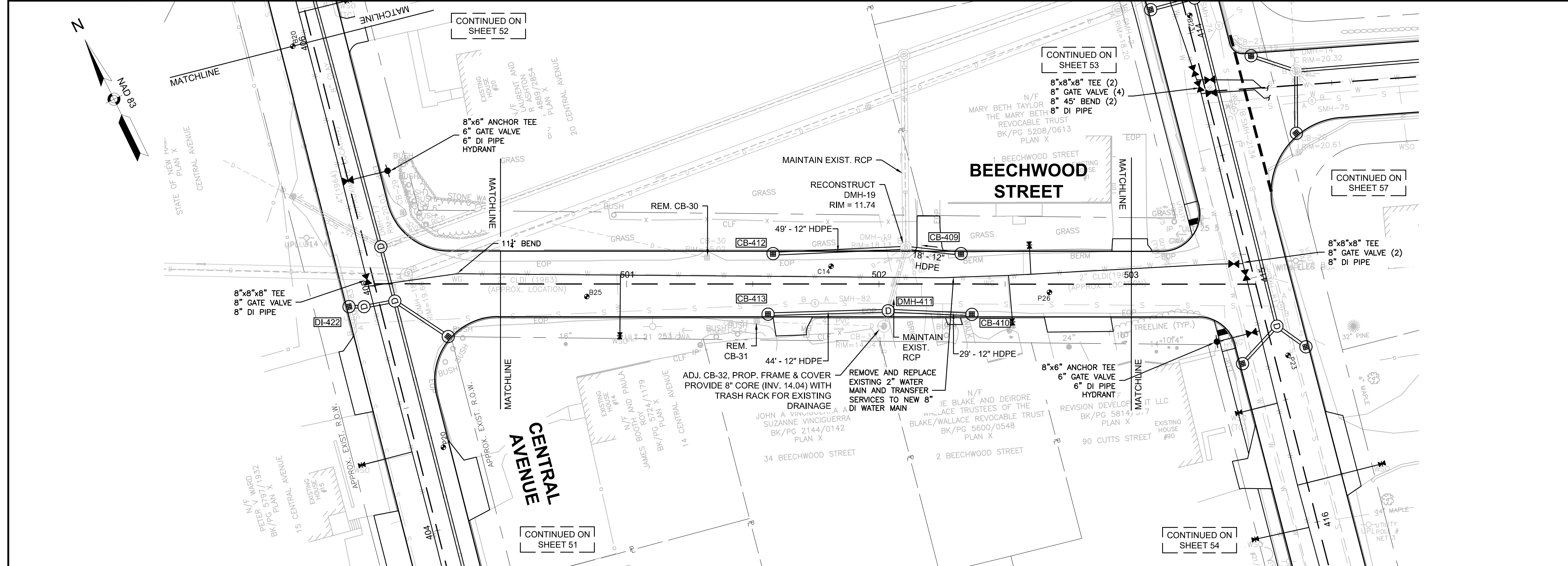
UTILITY PLAN & PROFILE - CUTTS STREET

HORI: 1" = 40'
 VERT: 1" = 8'

2015086.00

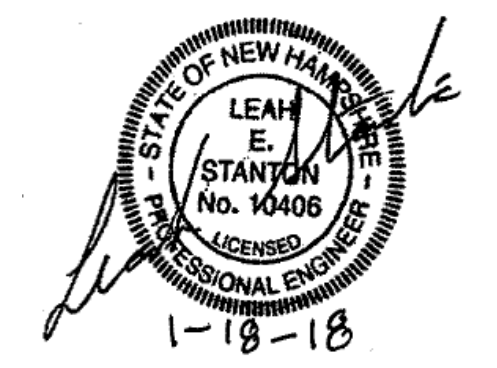
53 OF 184

15086 UT.DWG 1/19/2018



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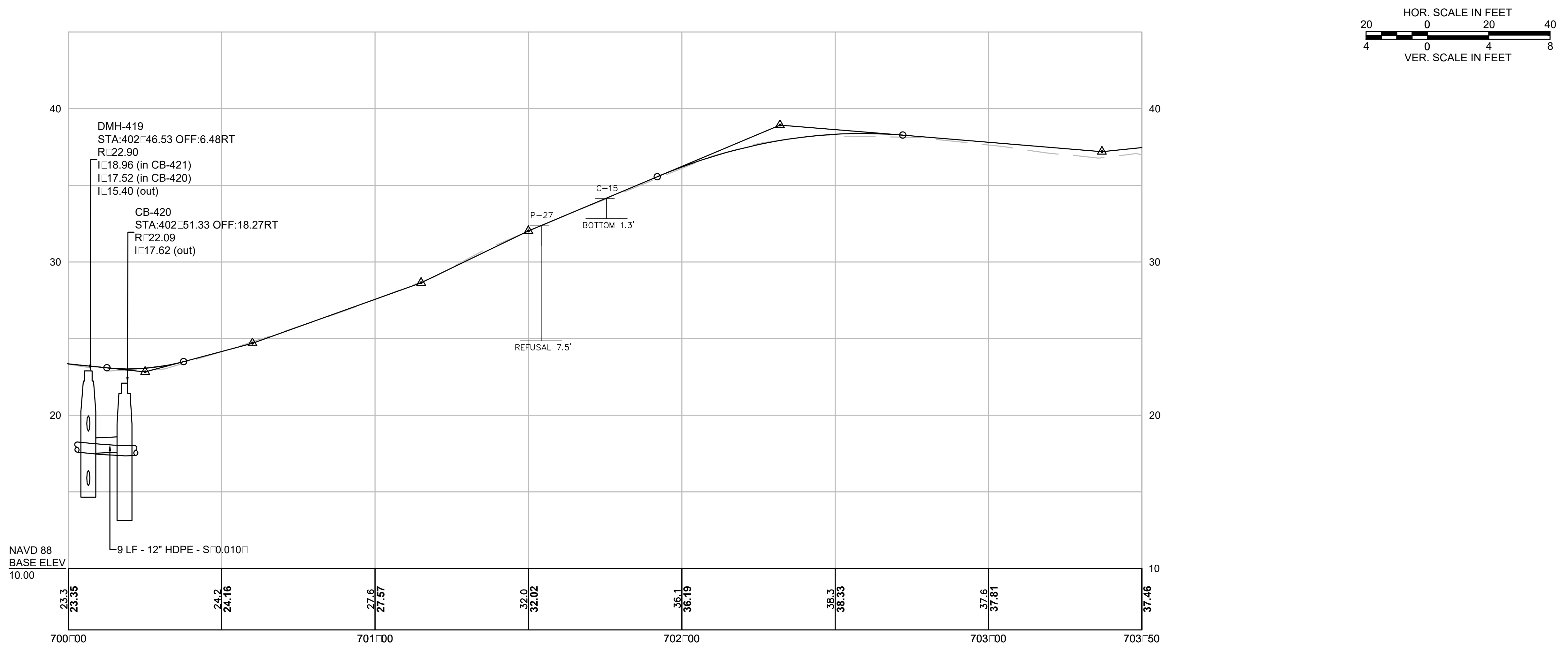
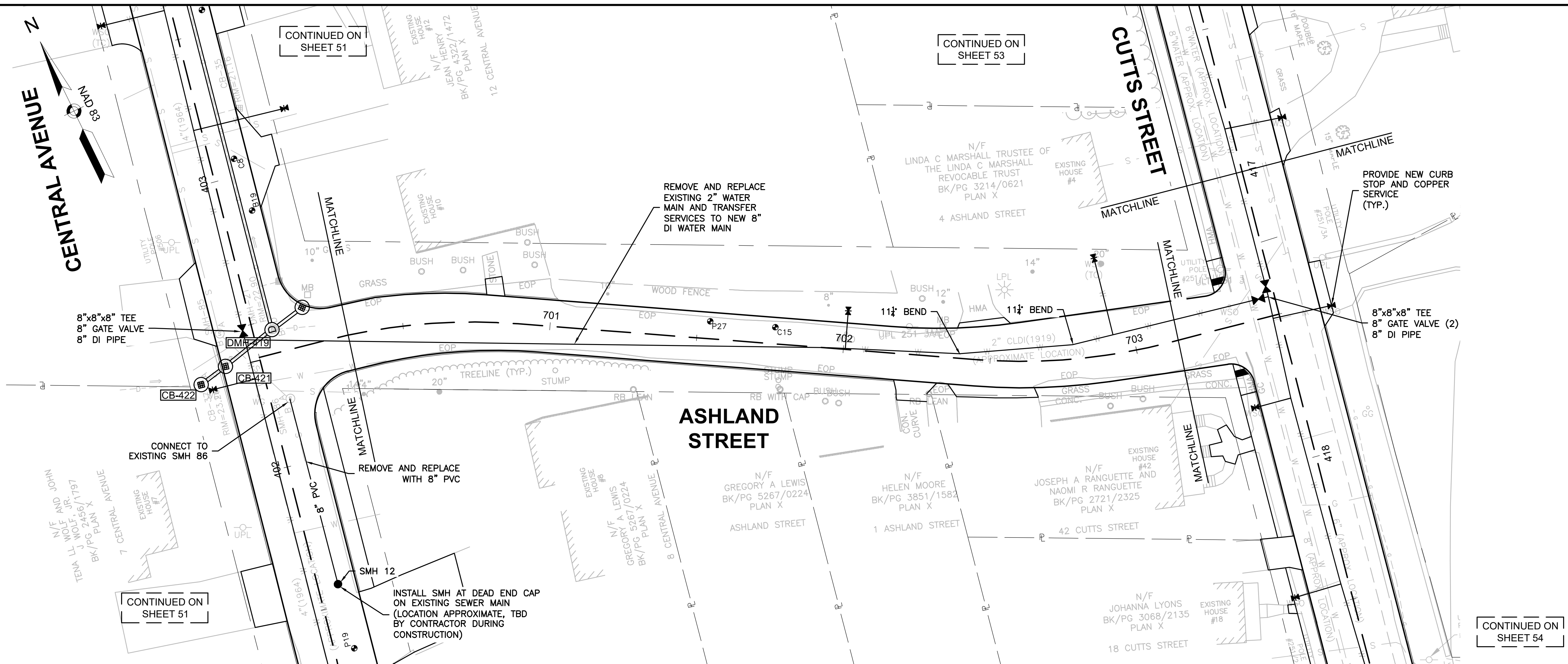
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS	
REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS/TLD CHECKED BY: JPJ/LES
 UTILITY PLAN & PROFILE - BEECHWOOD STREET
 HORI: 1" = 20' VERT: 1" = 4'
 2015086.00
 55 OF 184

15086_UT.DWG 1/19/2018



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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

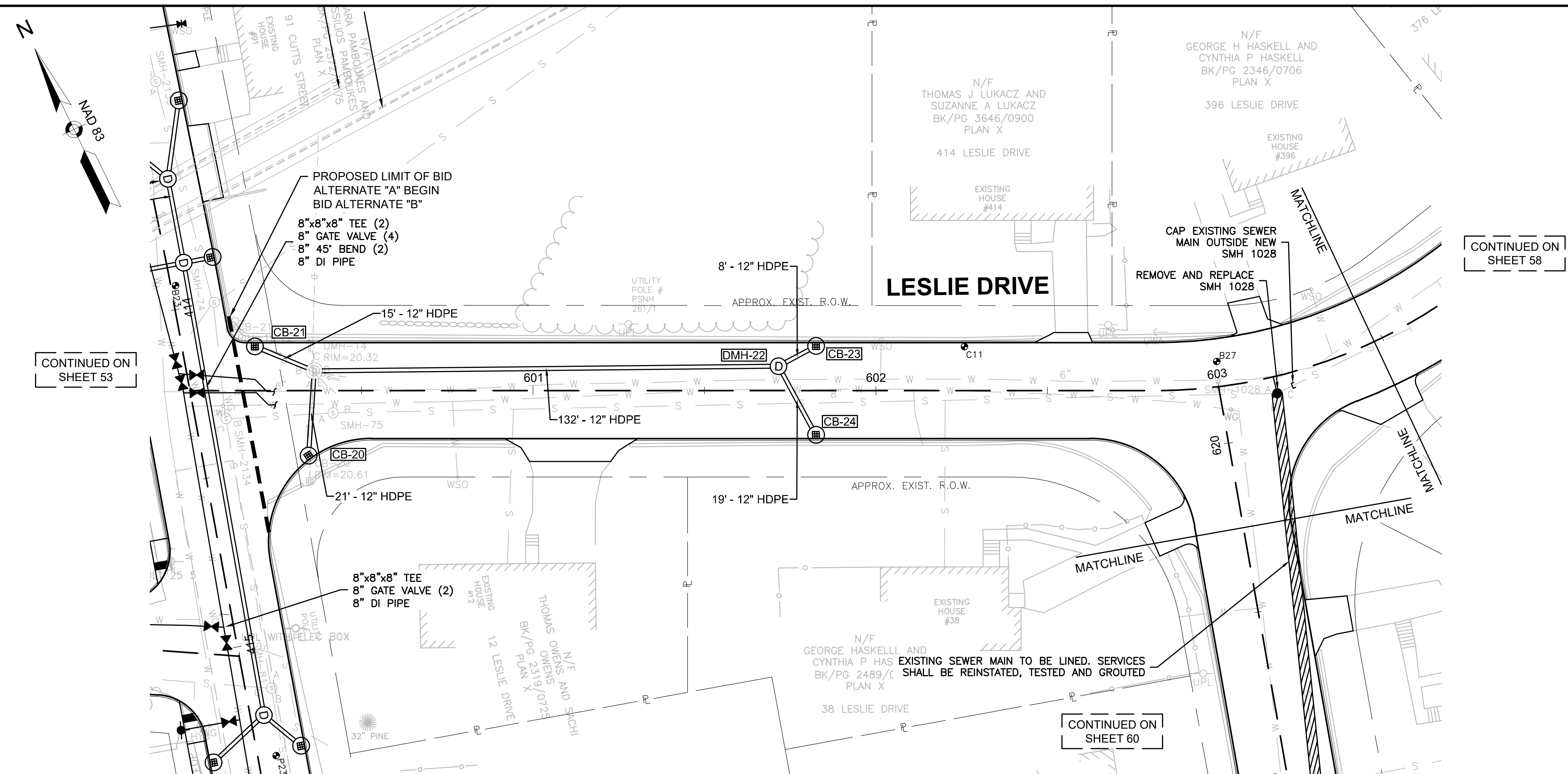
REVISIONS	
REVISION	DATE

**UTILITY PLAN & PROFILE -
ASHLAND STREET**

HORI: 1" = 20'
VERT: 1" = 4'

2015086.00

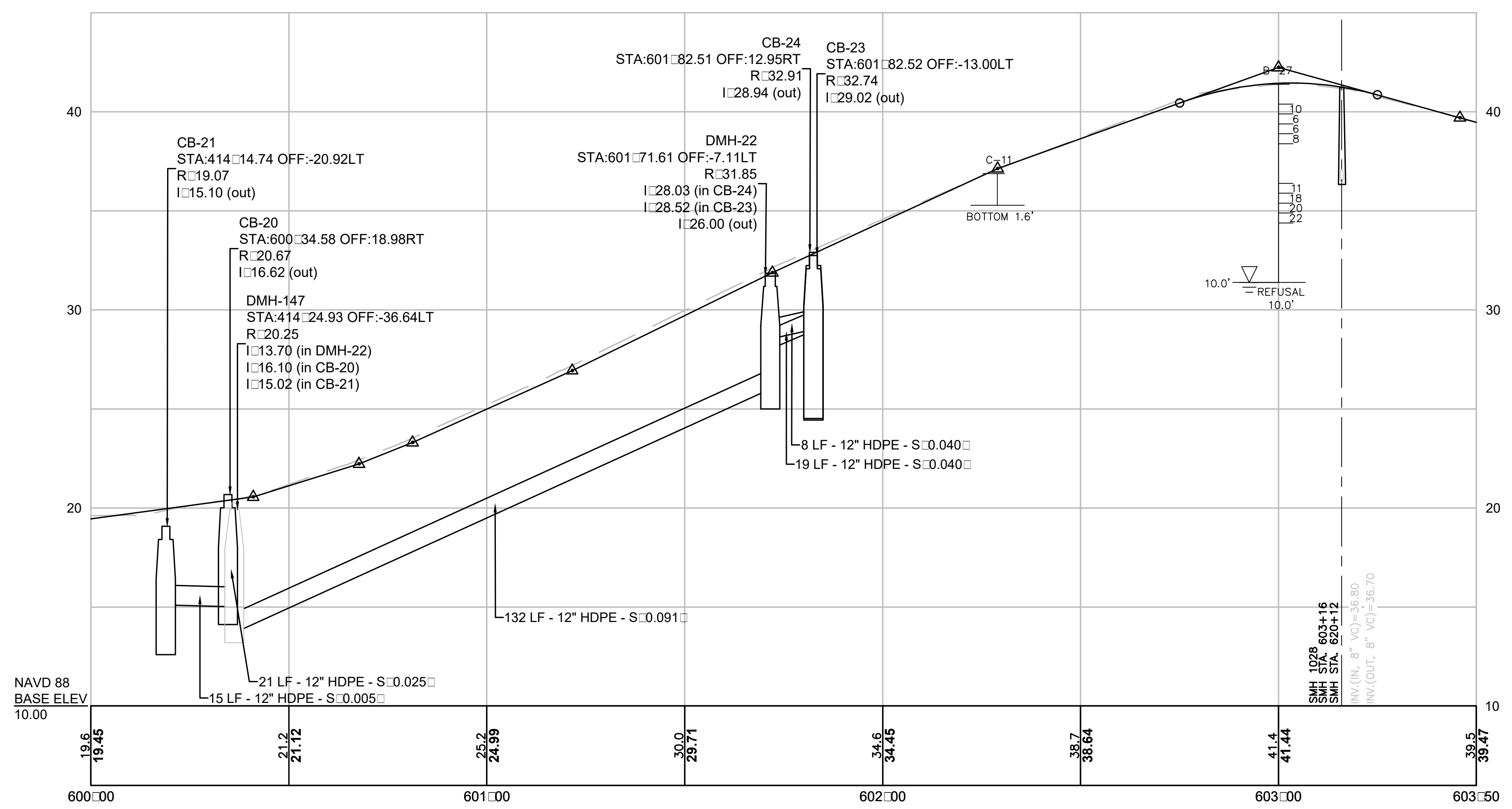
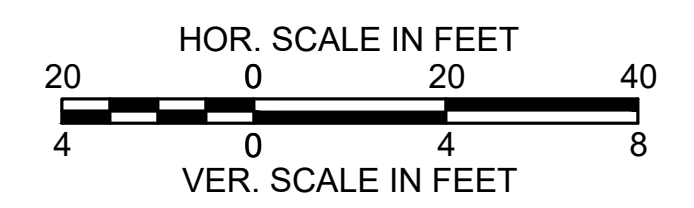
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CONTINUED ON SHEET 58

CONTINUED ON SHEET 53

CONTINUED ON SHEET 60



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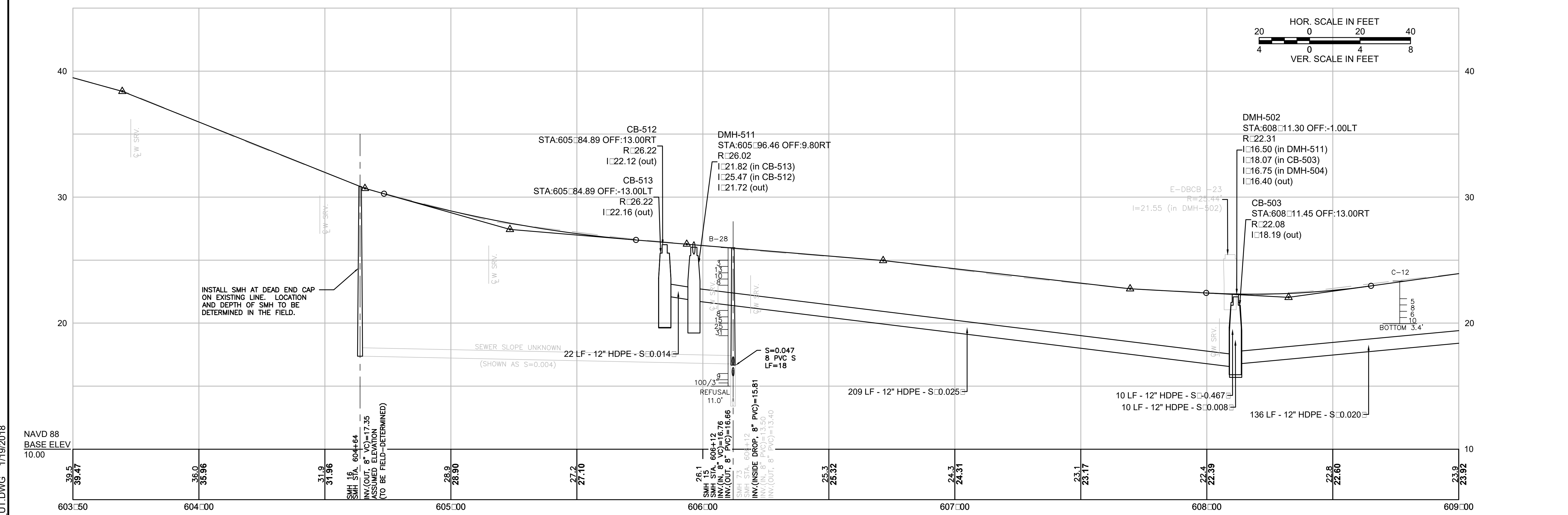
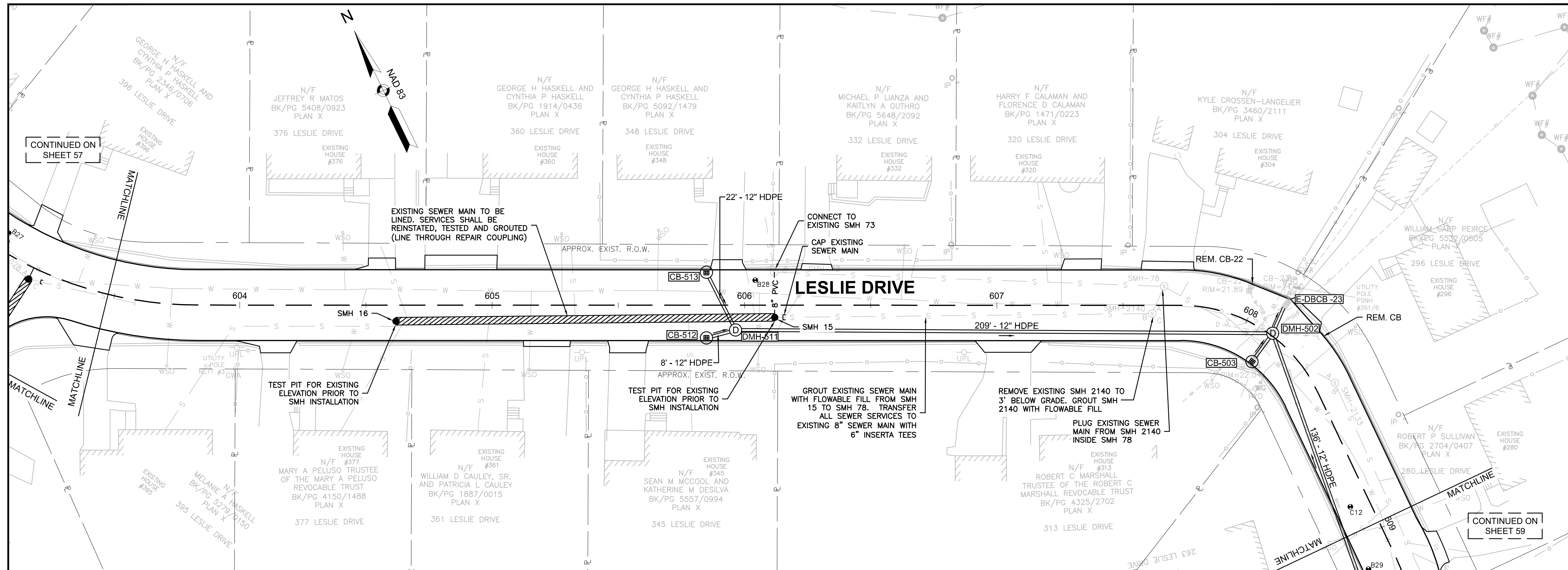


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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

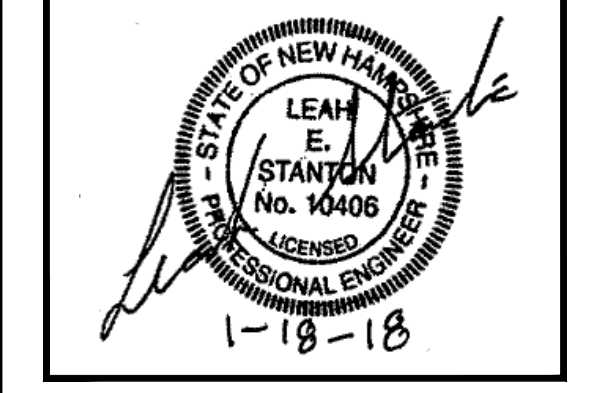
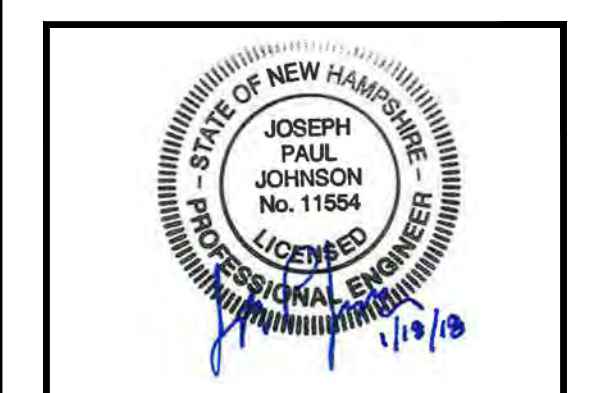
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REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: CLS/TLT
CHECKED BY: JPJ/LES
UTILITY PLAN & PROFILE - LESLIE DRIVE
HORI: 1" = 20'
VERT: 1" = 4'
2015086.00



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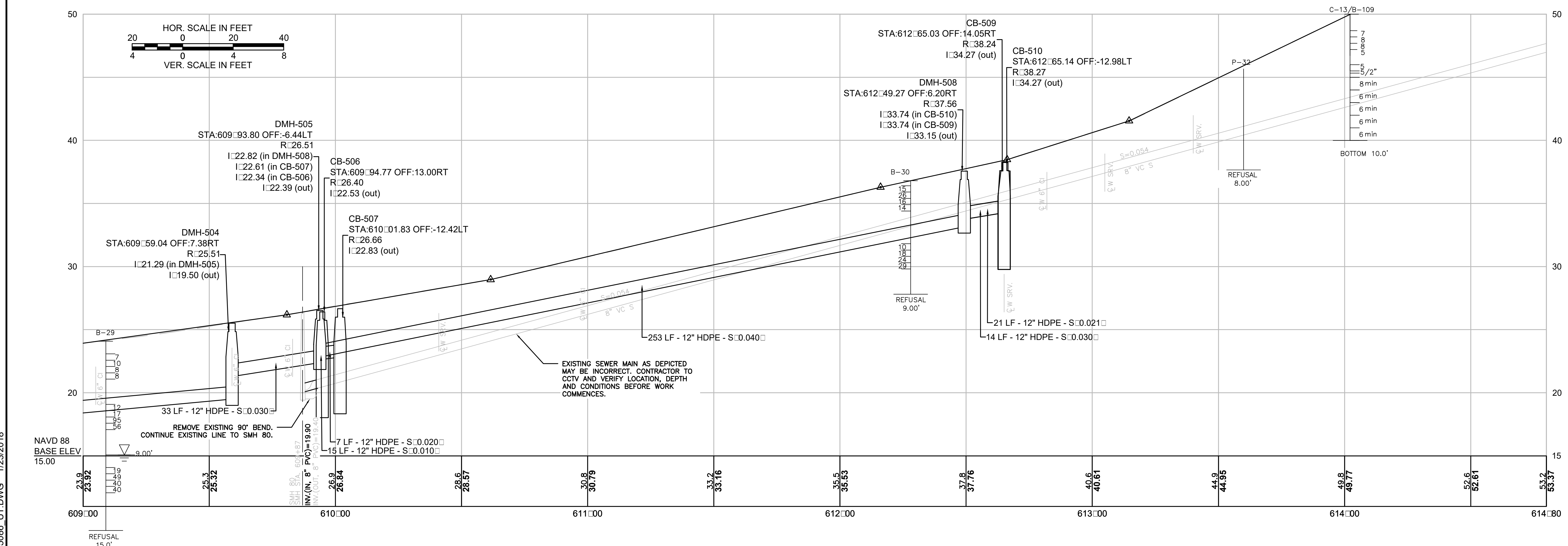
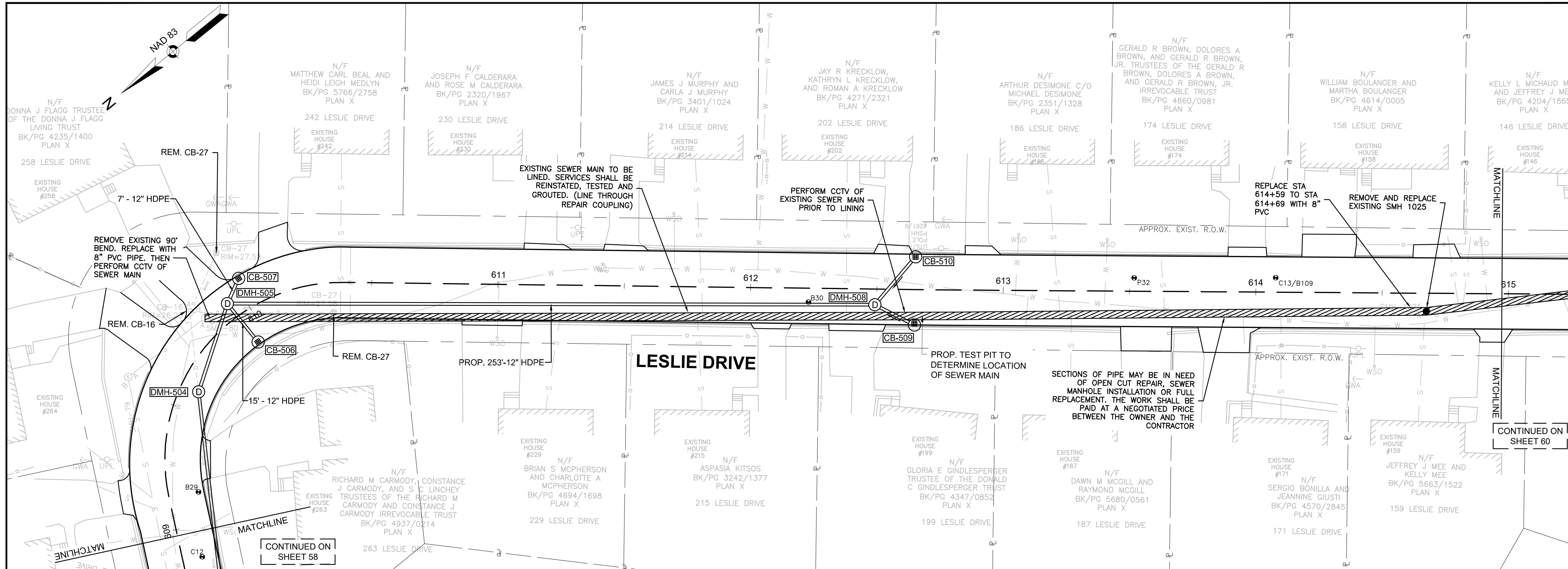
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS	
REVISION	DATE

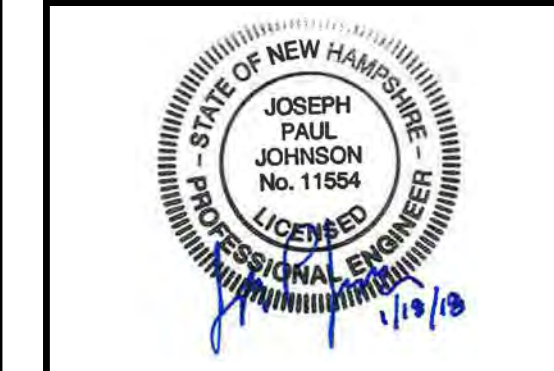
1/18/2018
 DRAWN/DESIGN BY: CLS/TLT CHECKED BY: JPJ/LES
UTILITY PLAN & PROFILE - LESLIE DRIVE
 HORI: 1" = 20'
 VERT: 1" = 4'
 2015086.00

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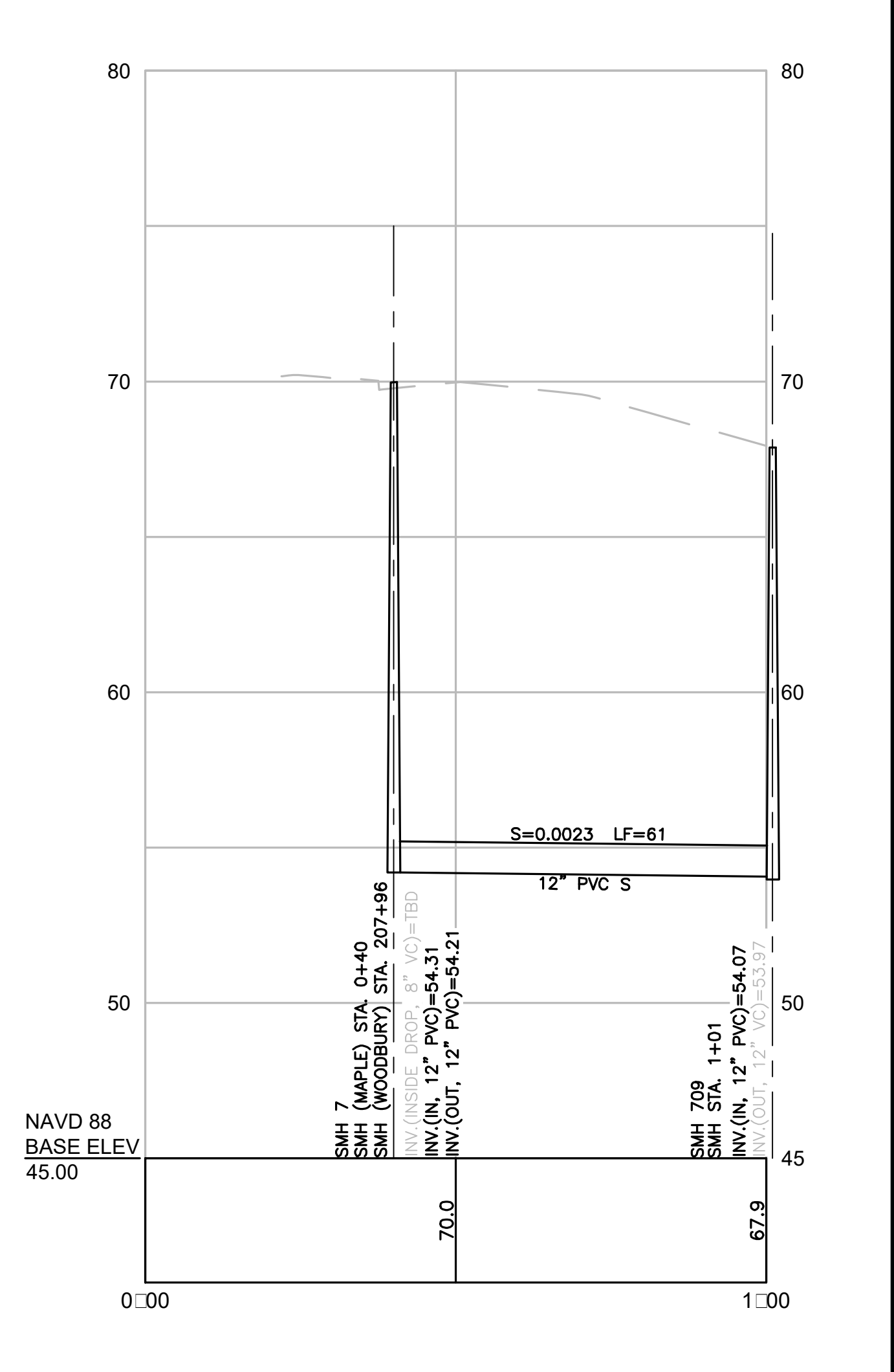
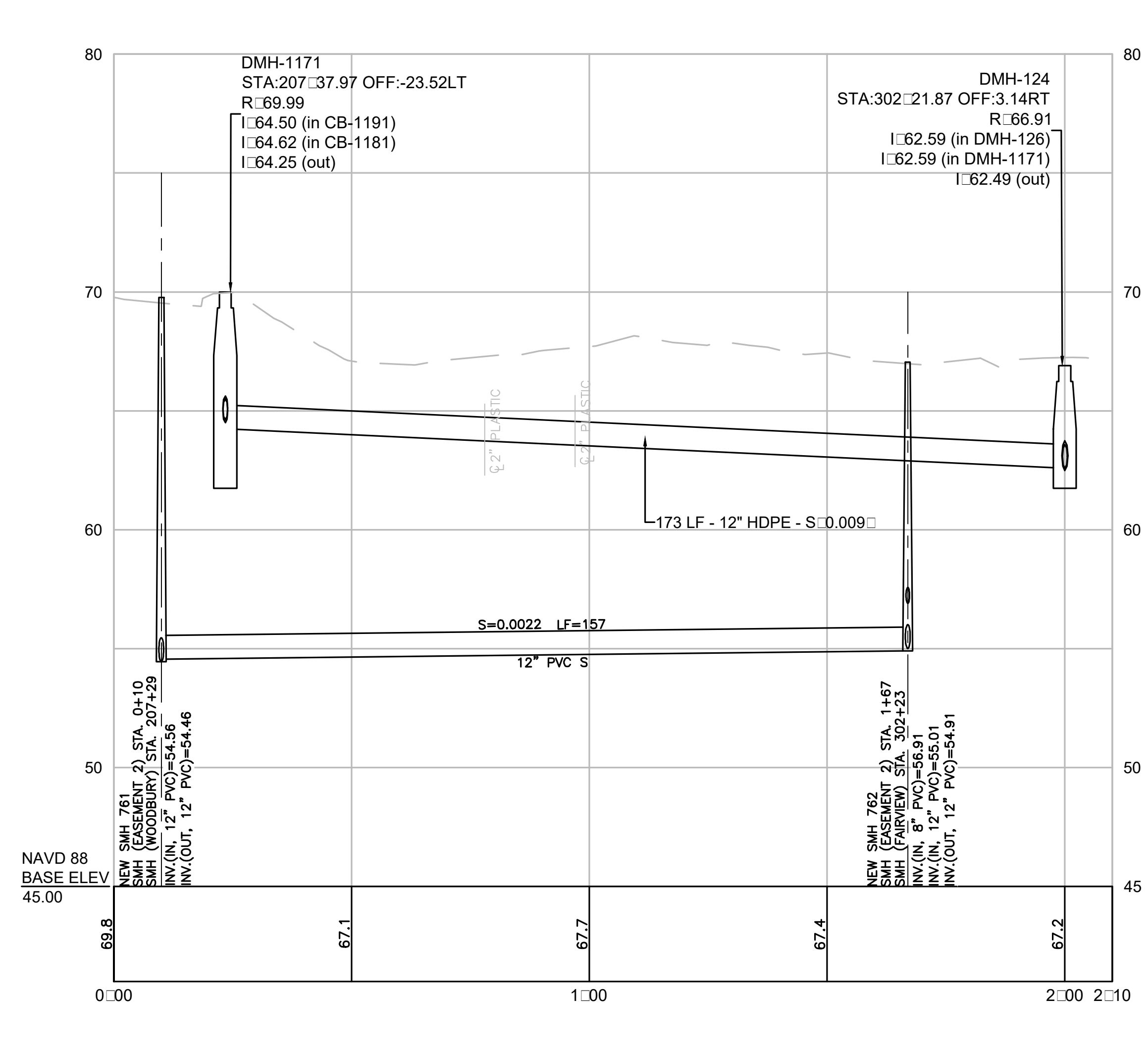
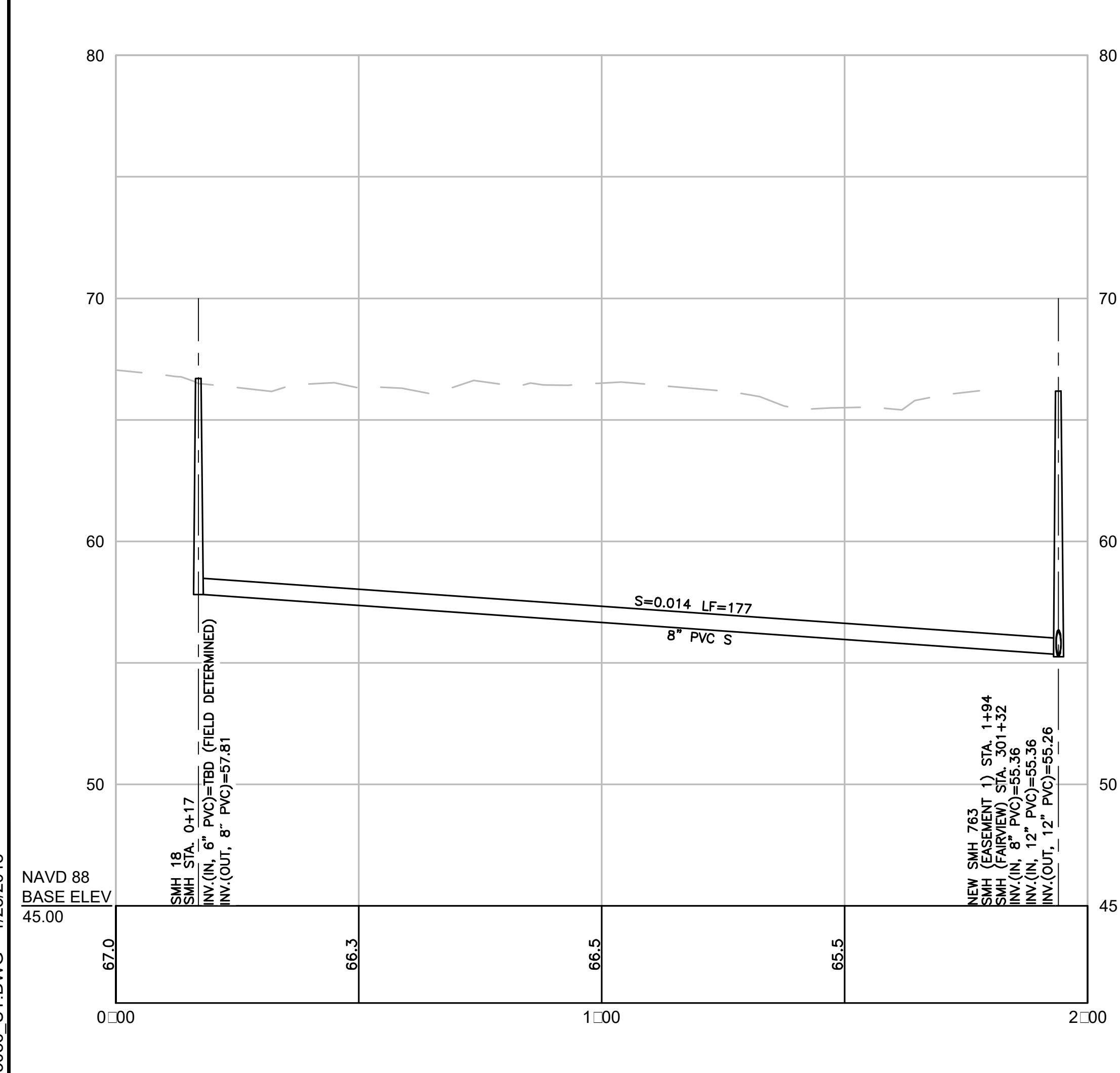
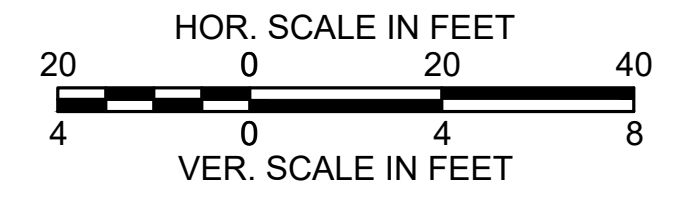
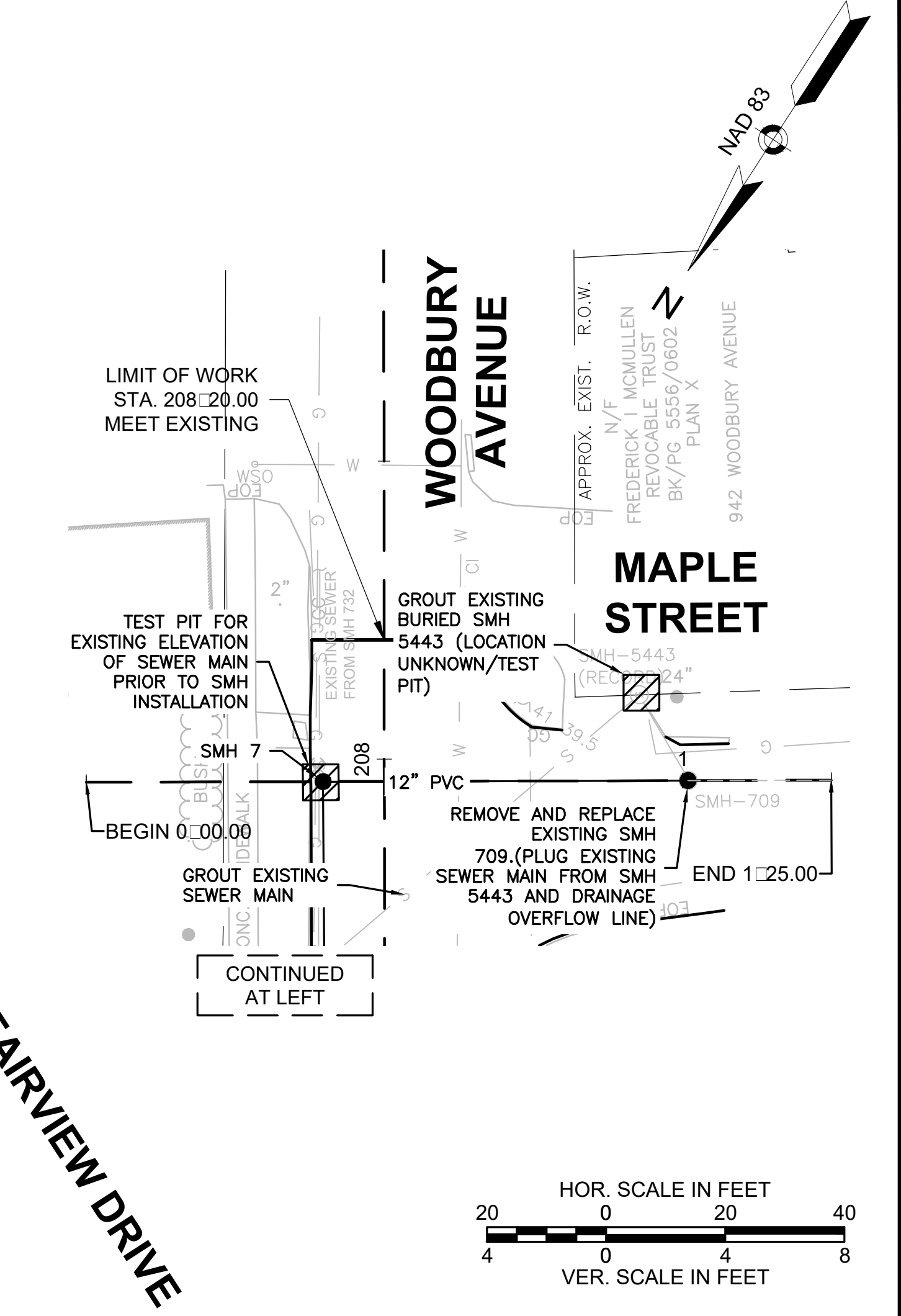
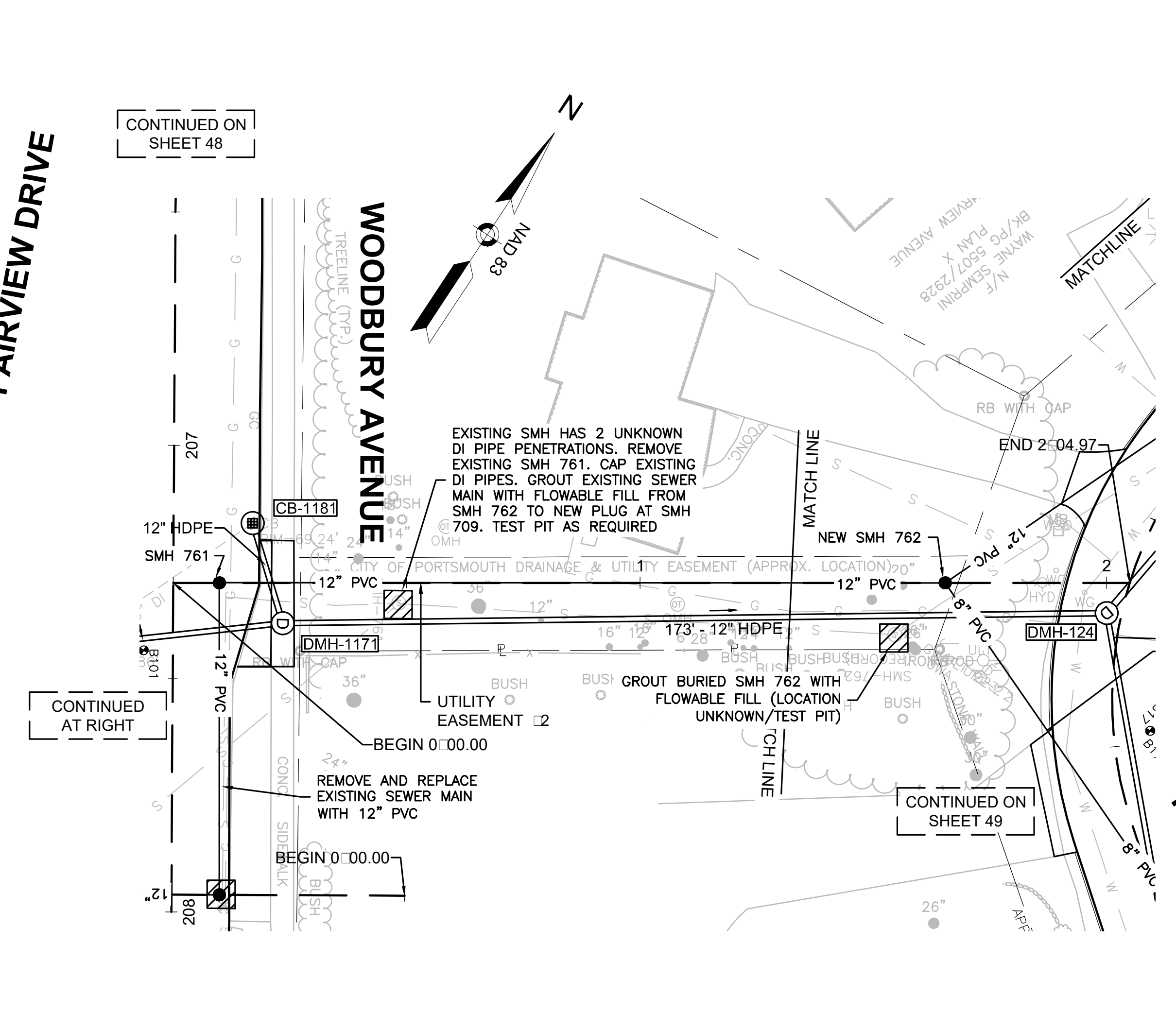
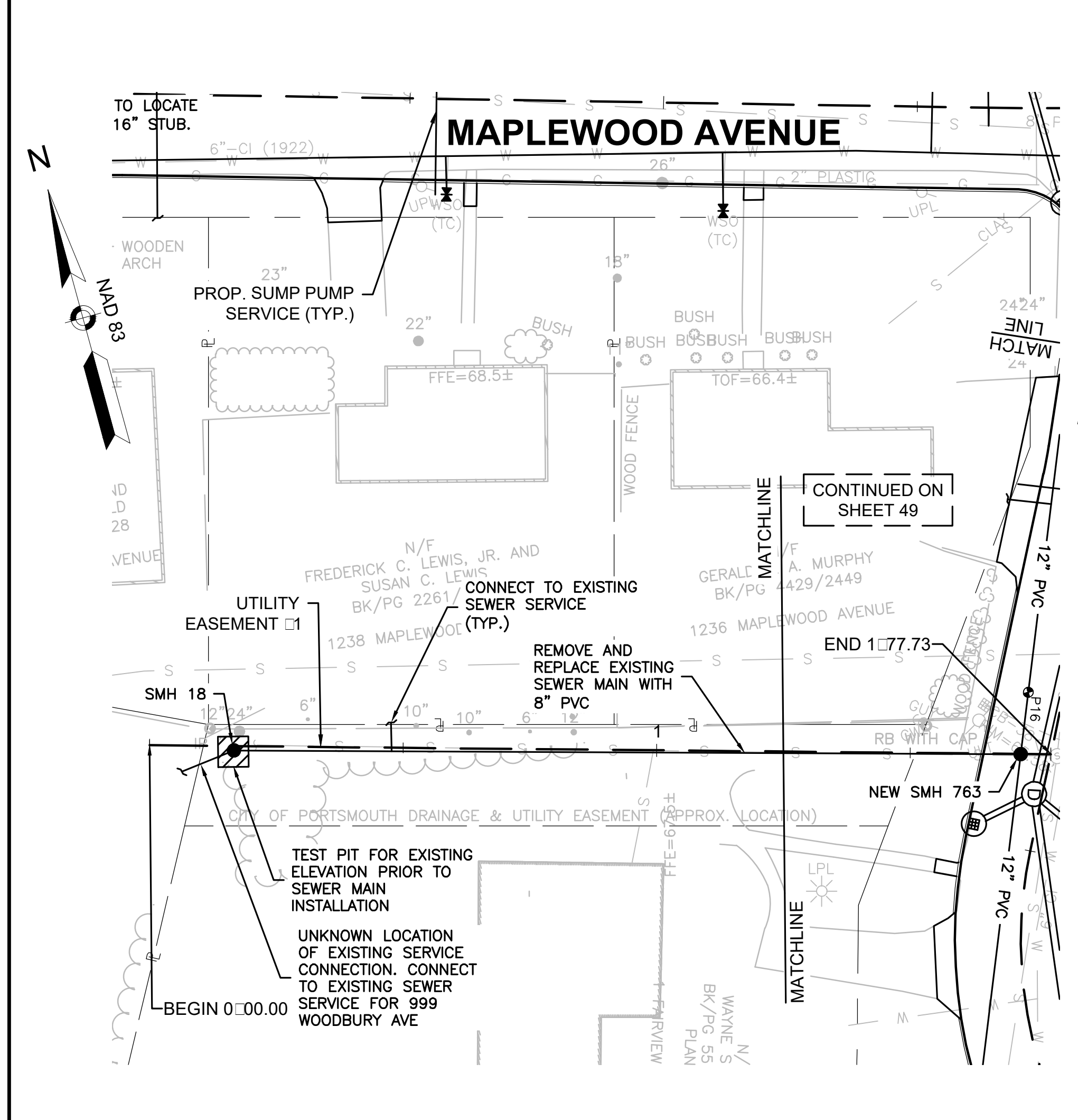
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS	
REVISION	DATE

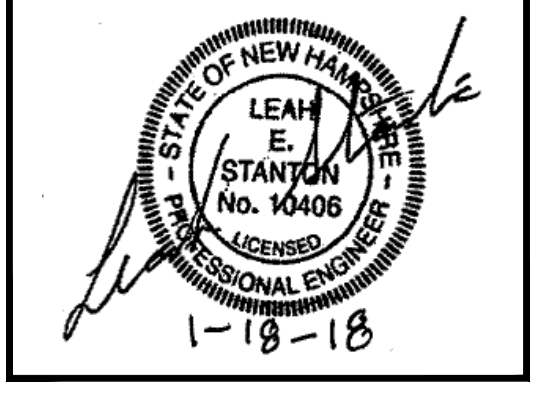
1/18/2018
 DRAWN/DESIGN BY: CLS/TLD CHECKED BY: JPJ/LES
**UTILITY PLAN
 & PROFILE -
 LESLIE DRIVE**
 HORI: 1" = 20'
 VERT: 1" = 4'
 2015086.00
 59 OF 184

15086 UT.DWG 1/23/2018



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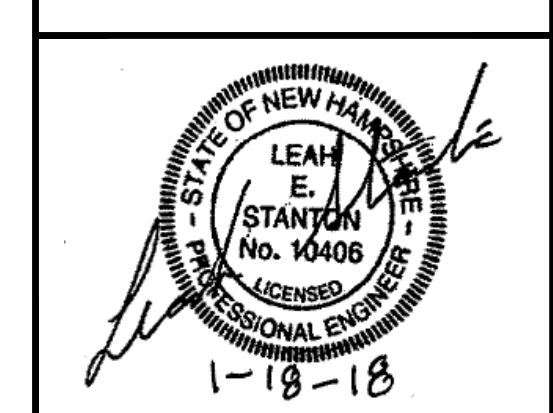
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS	
REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: CLS/TLD
CHECKED BY: JPJ/LES

UTILITY PLAN & PROFILE - UTILITY EASEMENTS
HORI: 1" = 20'
VERT: 1" = 4'
2015086.00



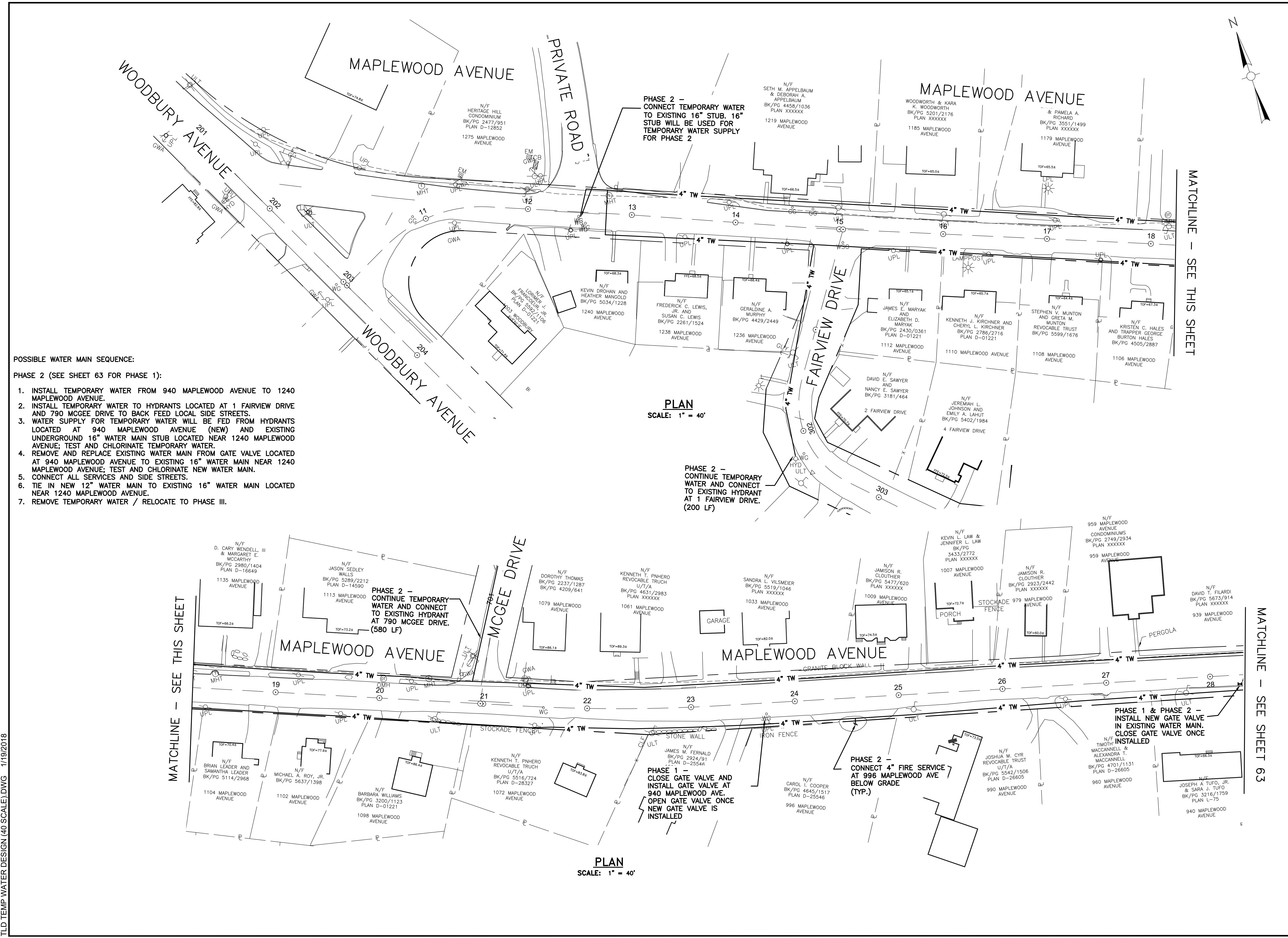
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

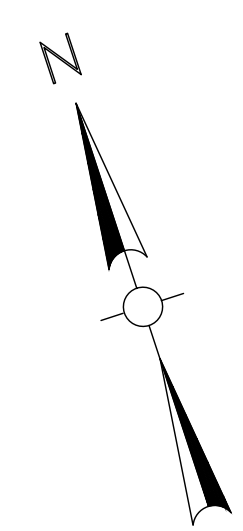
1/18/2018
 DRAWN/DESIGN BY: TLD
 CHECKED BY: LES

TEMPORARY WATER - MAPLEWOOD AVENUE
 SCALE: HORIZ: 1" = 40'
 VERT: 1" = 4'
 2015086.00
 62 OF 184



- POSSIBLE WATER MAIN SEQUENCE:
- PHASE 2 (SEE SHEET 63 FOR PHASE 1):
1. INSTALL TEMPORARY WATER FROM 940 MAPLEWOOD AVENUE TO 1240 MAPLEWOOD AVENUE.
 2. INSTALL TEMPORARY WATER TO HYDRANTS LOCATED AT 1 FAIRVIEW DRIVE AND 790 MCGEE DRIVE TO BACK FEED LOCAL SIDE STREETS.
 3. WATER SUPPLY FOR TEMPORARY WATER WILL BE FED FROM HYDRANTS LOCATED AT 940 MAPLEWOOD AVENUE (NEW) AND EXISTING UNDERGROUND 16" WATER MAIN STUB LOCATED NEAR 1240 MAPLEWOOD AVENUE; TEST AND CHLORINATE TEMPORARY WATER.
 4. REMOVE AND REPLACE EXISTING WATER MAIN FROM GATE VALVE LOCATED AT 940 MAPLEWOOD AVENUE TO EXISTING 16" WATER MAIN NEAR 1240 MAPLEWOOD AVENUE; TEST AND CHLORINATE NEW WATER MAIN.
 5. CONNECT ALL SERVICES AND SIDE STREETS.
 6. TIE IN NEW 12" WATER MAIN TO EXISTING 16" WATER MAIN LOCATED NEAR 1240 MAPLEWOOD AVENUE.
 7. REMOVE TEMPORARY WATER / RELOCATE TO PHASE III.

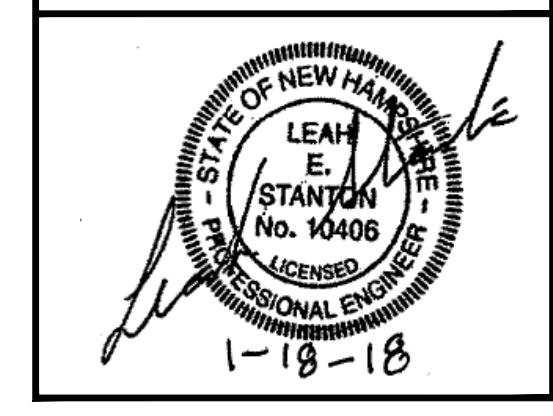
TLD TEMP WATER DESIGN (40 SCALE).DWG 1/19/2018



MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE SHEET 63

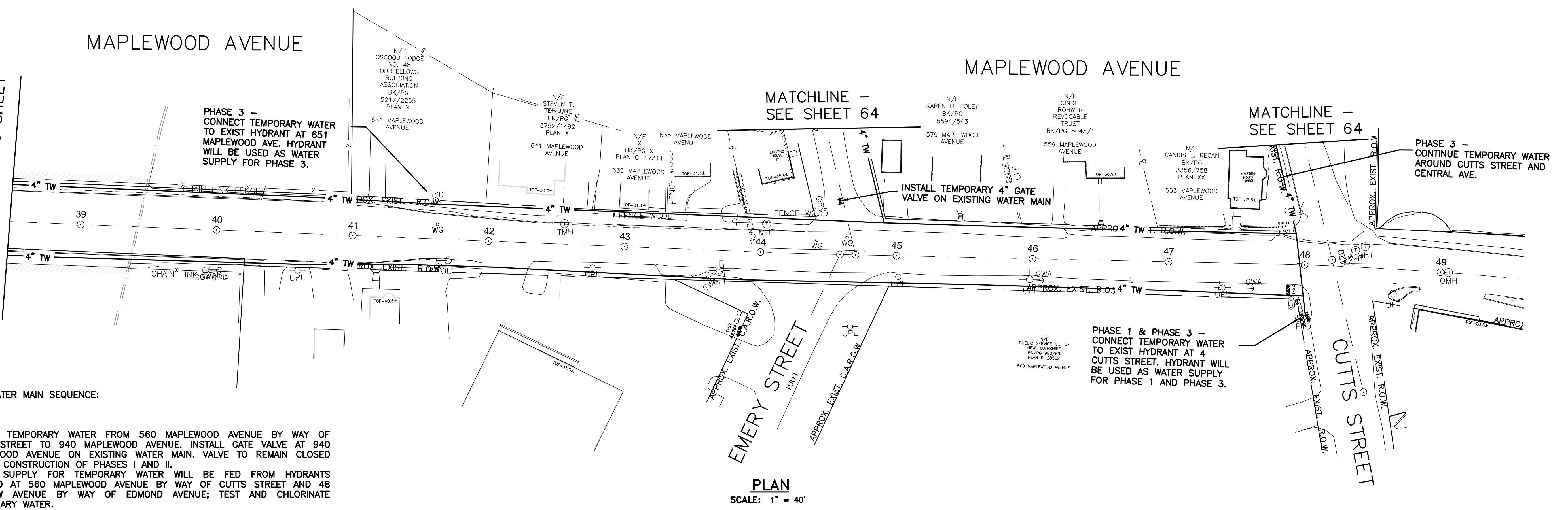
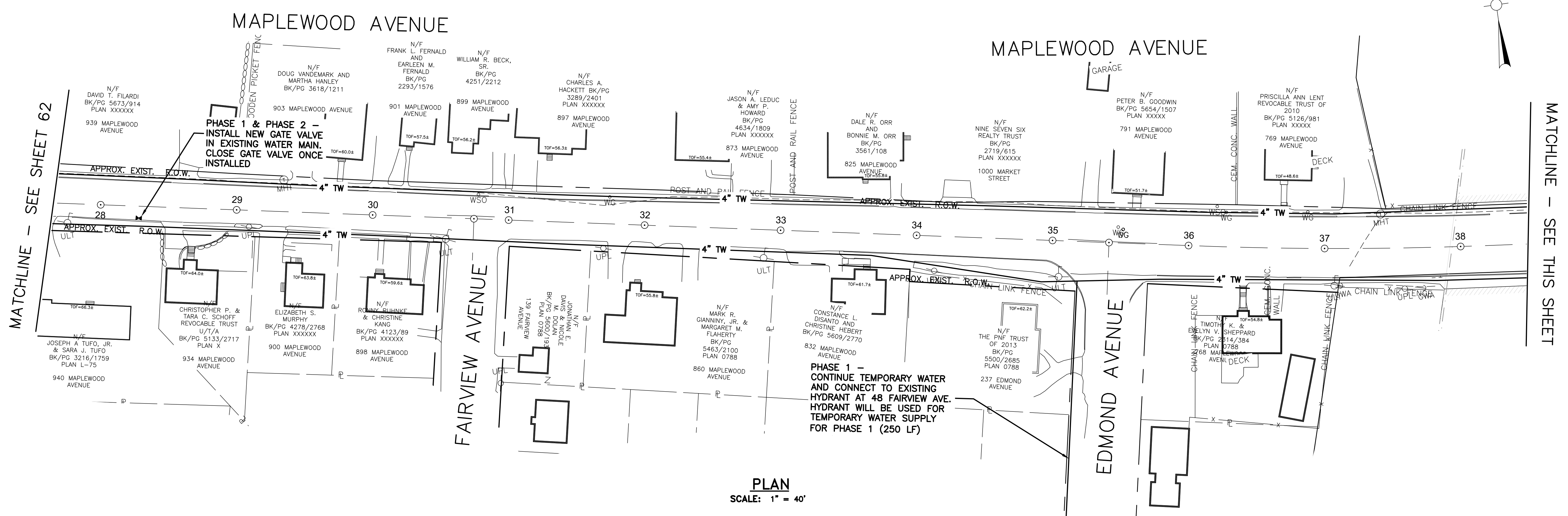


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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

TEMPORARY WATER - MAPLEWOOD AVENUE
 SCALE: HORIZ: 1" = 40'
 VERT: 1" = 4'
 2015086.00
 63 OF 184

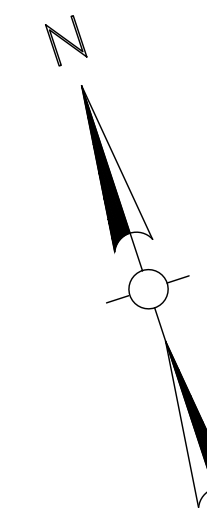
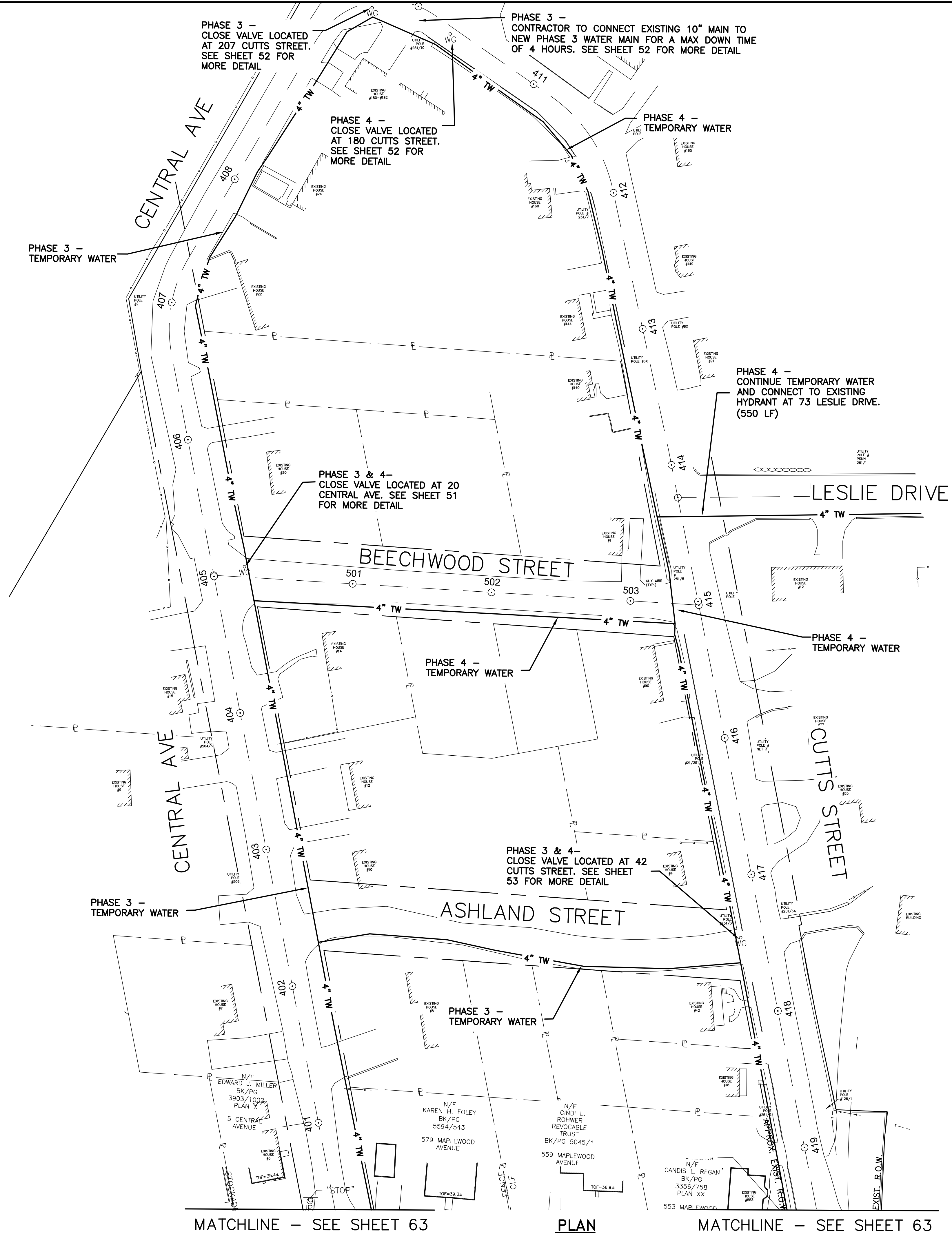


POSSIBLE WATER MAIN SEQUENCE:

- PHASE 1:**
1. INSTALL TEMPORARY WATER FROM 560 MAPLEWOOD AVENUE BY WAY OF CUTTS STREET TO 940 MAPLEWOOD AVENUE. INSTALL GATE VALVE AT 940 MAPLEWOOD AVENUE ON EXISTING WATER MAIN. VALVE TO REMAIN CLOSED DURING CONSTRUCTION OF PHASES I AND II.
 2. WATER SUPPLY FOR TEMPORARY WATER WILL BE FED FROM HYDRANTS LOCATED AT 560 MAPLEWOOD AVENUE BY WAY OF CUTTS STREET AND 48 FAIRVIEW AVENUE BY WAY OF EDMOND AVENUE; TEST AND CHLORINATE TEMPORARY WATER.
 3. REMOVE AND REPLACE EXISTING WATER MAIN FROM NEW GATE VALVE LOCATED AT 940 MAPLEWOOD AVENUE TO 16" UNDERGROUND WATER MAIN NEAR CUTTS STREET AND MAPLEWOOD AVENUE INTERSECTION; TEST AND CHLORINATE NEW WATER MAIN.
 4. CONNECT ALL SERVICES AND SIDE STREETS.
 5. REMOVE TEMPORARY WATER / RELOCATE TO PHASE II.

TLD TEMP WATER DESIGN (40 SCALE).DWG 1/19/2018

TLD TEMP WATER DESIGN (40 SCALE).DWG 1/19/2018



POSSIBLE WATER MAIN SEQUENCE:

PHASE 3:

1. INSTALL TEMPORARY WATER FED FROM HYDRANTS LOCATED AT 560 MAPLEWOOD AVENUE BY WAY OF CUTTS STREET AND 651 MAPLEWOOD AVENUE TO SERVICE CENTRAL AVENUE AND ASHLAND STREET. CLOSE VALVES LOCATED AT 207 CUTTS STREET, 20 CENTRAL AVENUE BY WAY OF BEECHWOOD STREET, AND 42 CUTTS STREET BY WAY OF ASHLAND STREET.
2. TEST AND CHLORINATE TEMPORARY WATER.
3. REMOVE AND REPLACE EXISTING WATER MAIN FROM CENTRAL AVENUE TO VALVE LOCATED AT 207 CUTTS STREET AND ASHLAND STREET TO VALVE LOCATED AT 42 CUTTS STREET; TEST AND CHLORINATE NEW WATER MAIN.
4. CONNECT ALL SERVICES AND SIDE STREET.
5. REMOVE TEMPORARY WATER / RELOCATED TO CUTTS STREET.

POSSIBLE WATER MAIN SEQUENCE:

PHASE 4:

1. INSTALL TEMPORARY WATER FED FROM HYDRANTS LOCATED AT 560 MAPLEWOOD AVENUE BY WAY OF CUTTS STREET AND 651 MAPLEWOOD AVENUE TO SERVICE CUTTS STREET AND BEECHWOOD STREET. CLOSE VALVES LOCATED AT 180 CUTTS STREET, 20 CENTRAL AVENUE BY WAY OF BEECHWOOD STREET, AND 42 CUTTS STREET BY WAY OF ASHLAND STREET.
2. INSTALL TEMPORARY WATER TO HYDRANT LOCATED AT 79 LESLIE DRIVE TO BACK FEED LOCAL STREET.
3. TEST AND CHLORINATE TEMPORARY WATER.
4. REMOVE AND REPLACE EXISTING WATER MAIN FROM CUTTS STREET AND BEECHWOOD STREET; TEST AND CHLORINATE NEW WATER MAIN.
5. CONNECT ALL SERVICES AND SIDE STREET.
6. REMOVE TEMPORARY WATER.

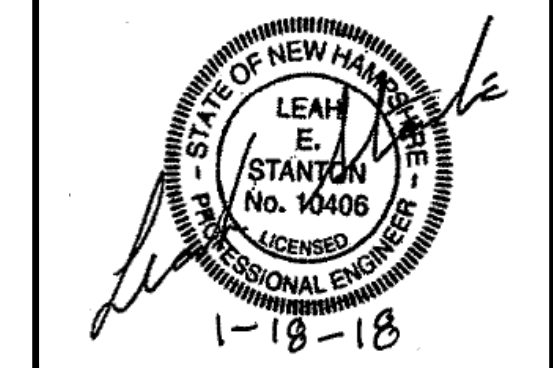
MATCHLINE - SEE SHEET 63

PLAN
SCALE: 1" = 40'

MATCHLINE - SEE SHEET 63

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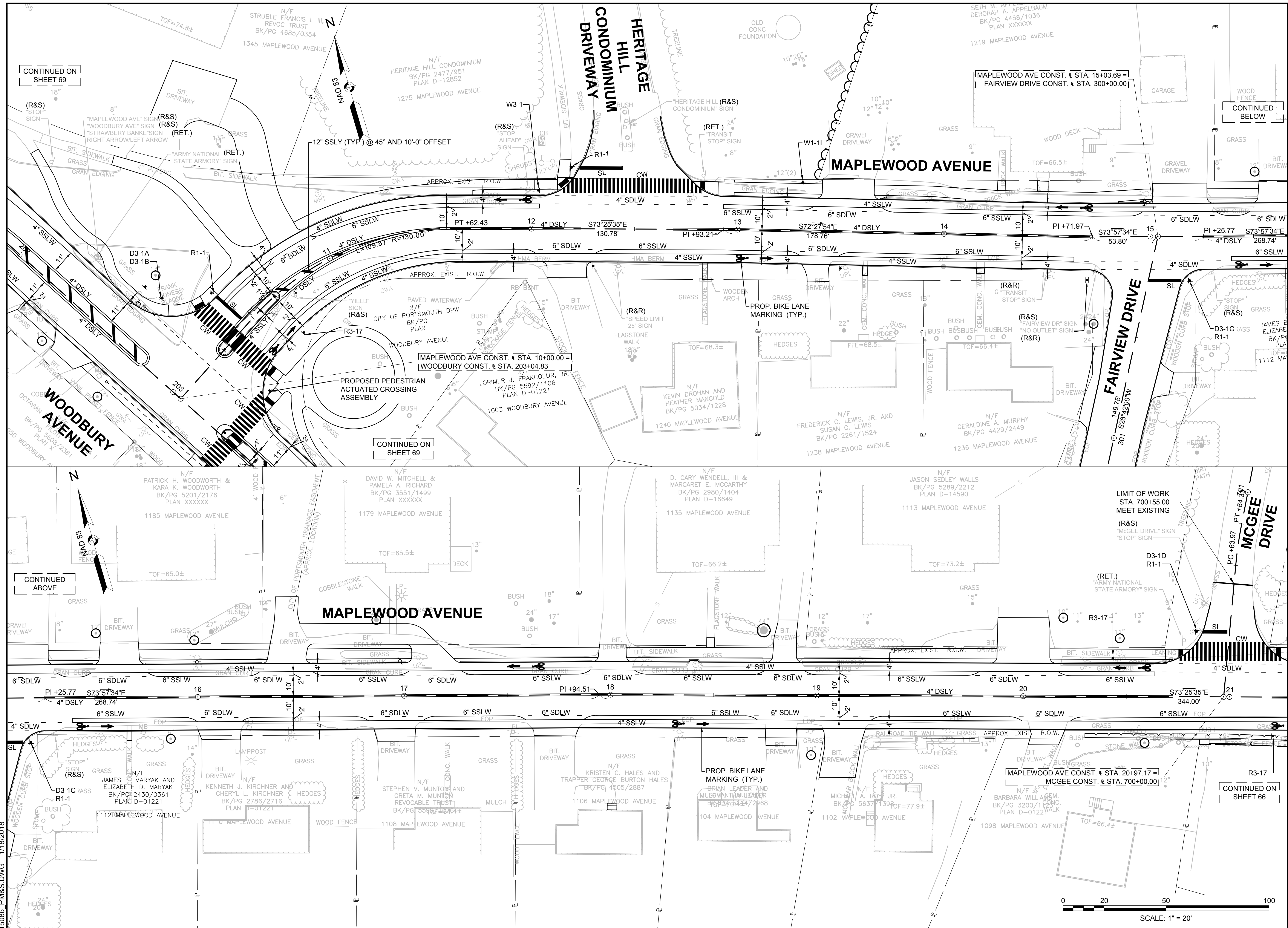
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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: TLD
CHECKED BY: LES

TEMPORARY WATER - CUTTS / CENTRAL AREA
SCALE: HORIZ: 1" = 40'
VERT: 1" = 4'
2015086.00
64 OF 184



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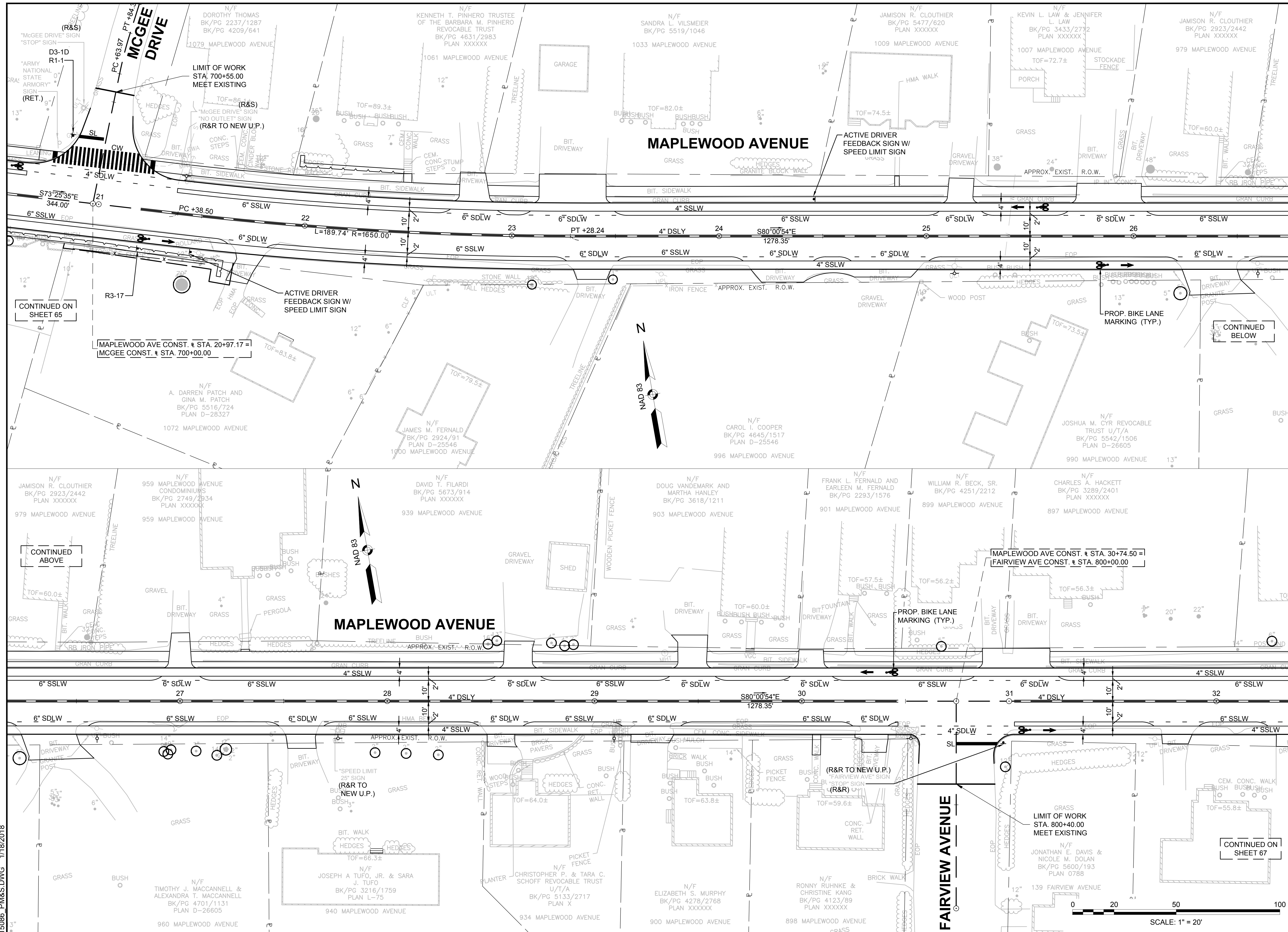
PREPARED FOR
 DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: TQN
 CHECKED BY: JPJ
PAVEMENT MARKING & SIGNING PLANS
 SCALE: 1" = 20'
 2015086.00
 65 OF 184

15086 PIM&S.DWG 1/18/2018



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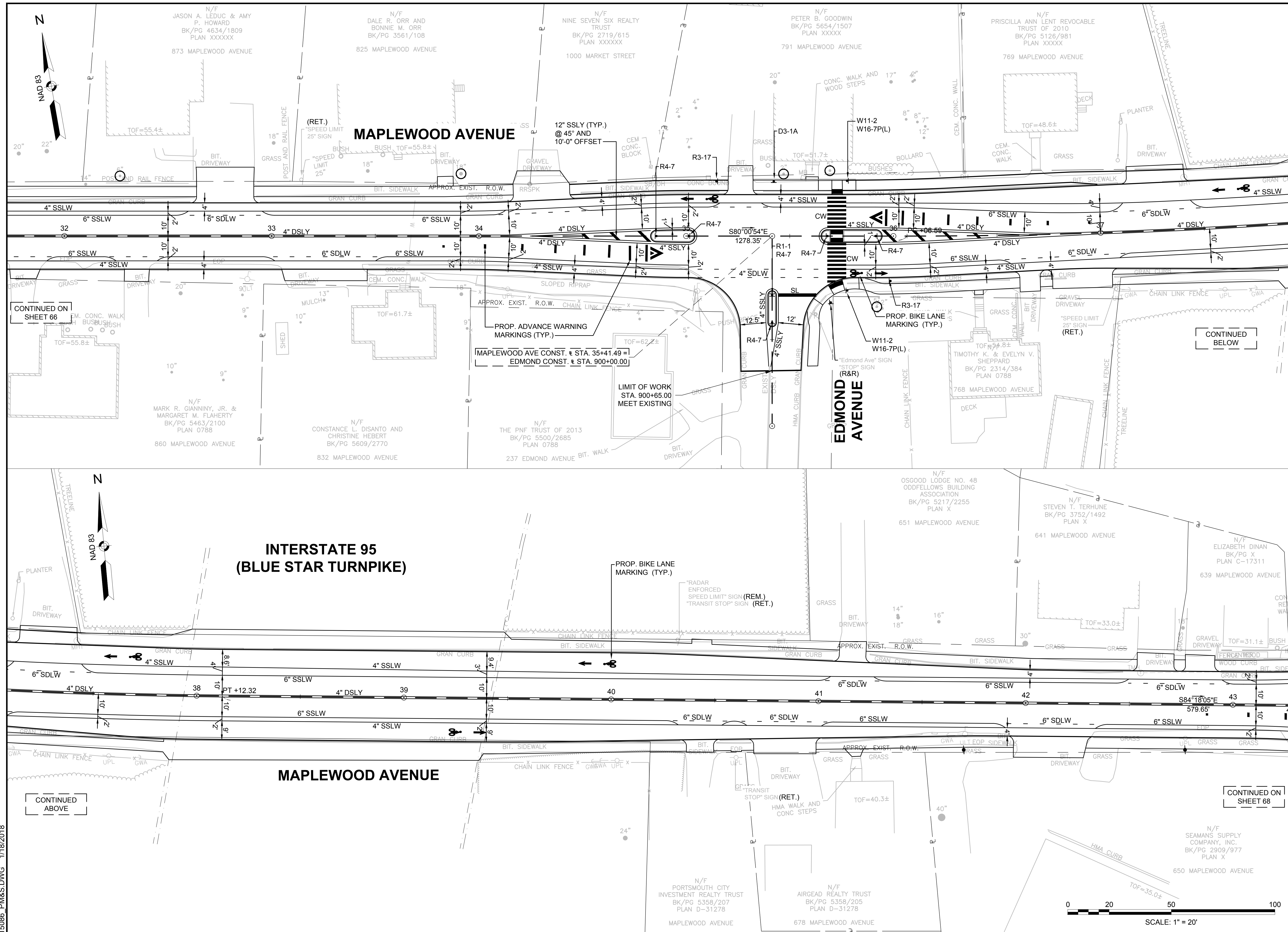
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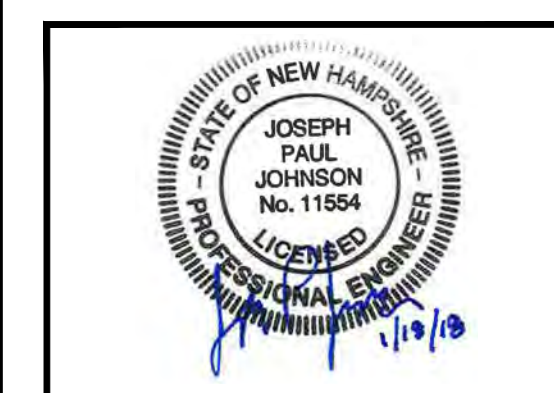
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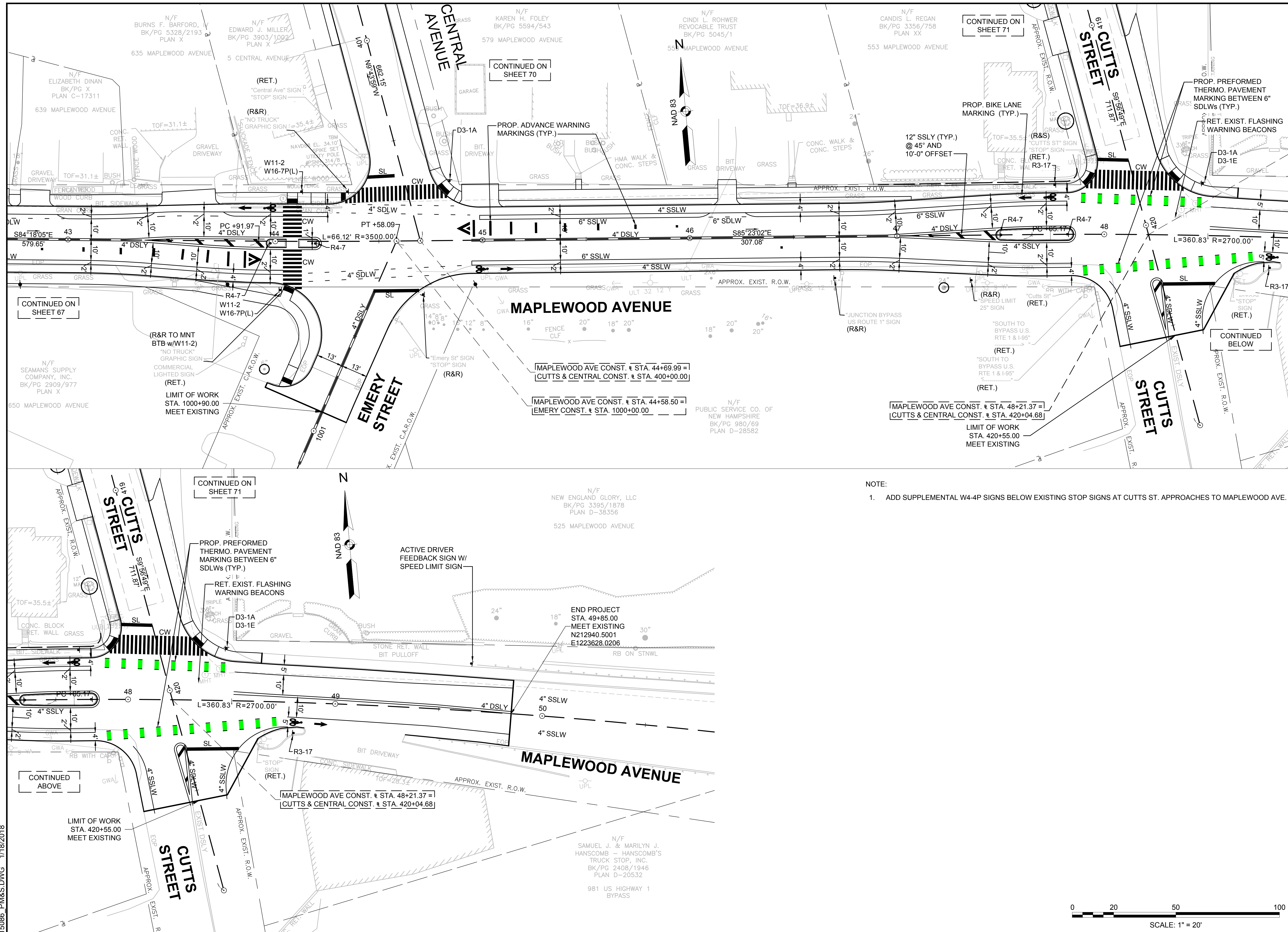
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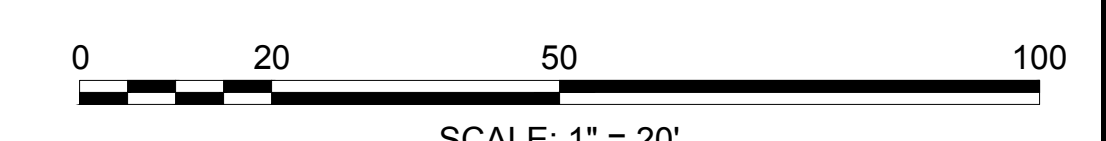
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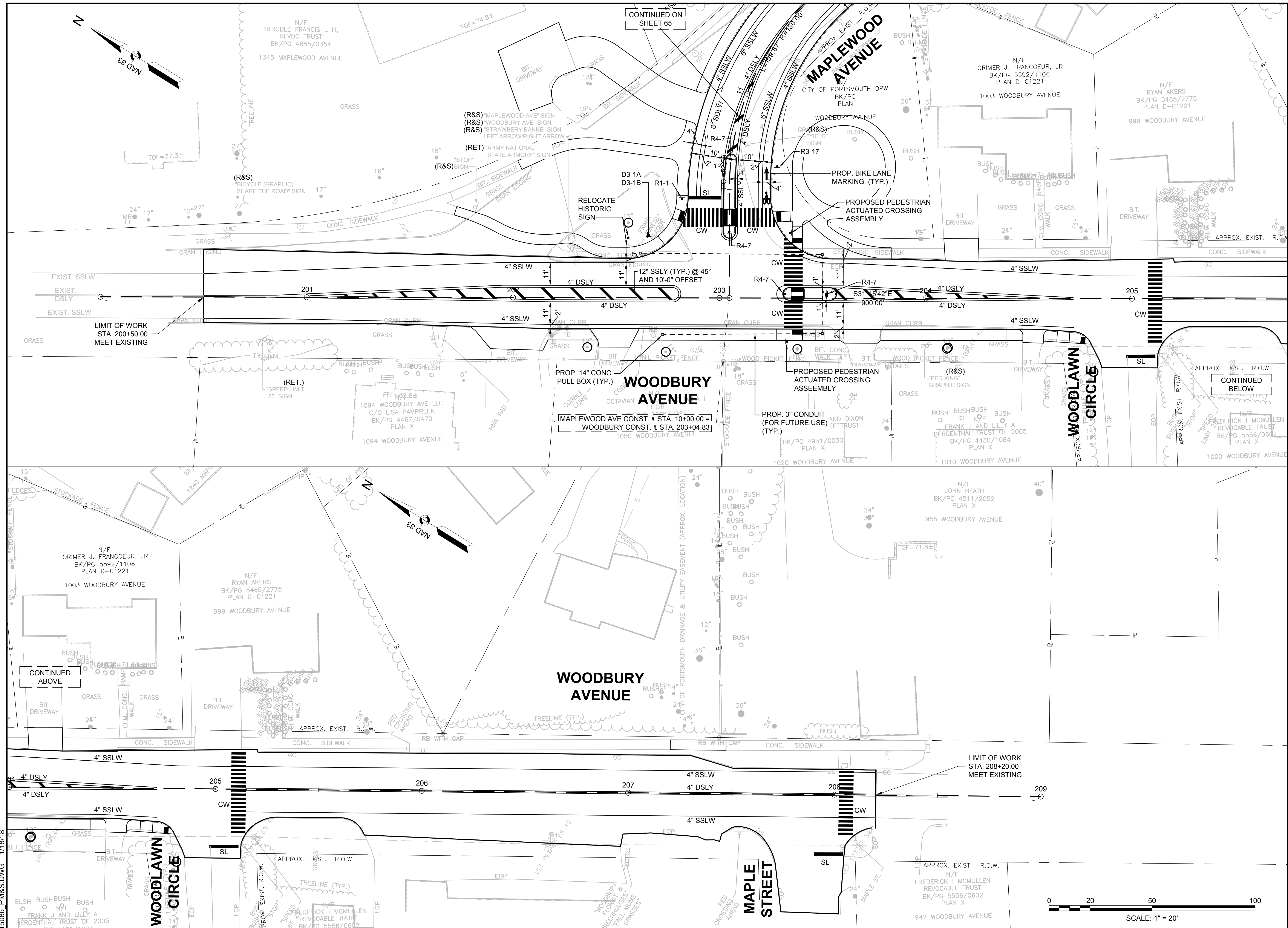
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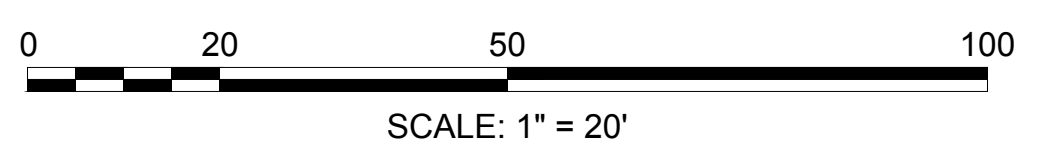
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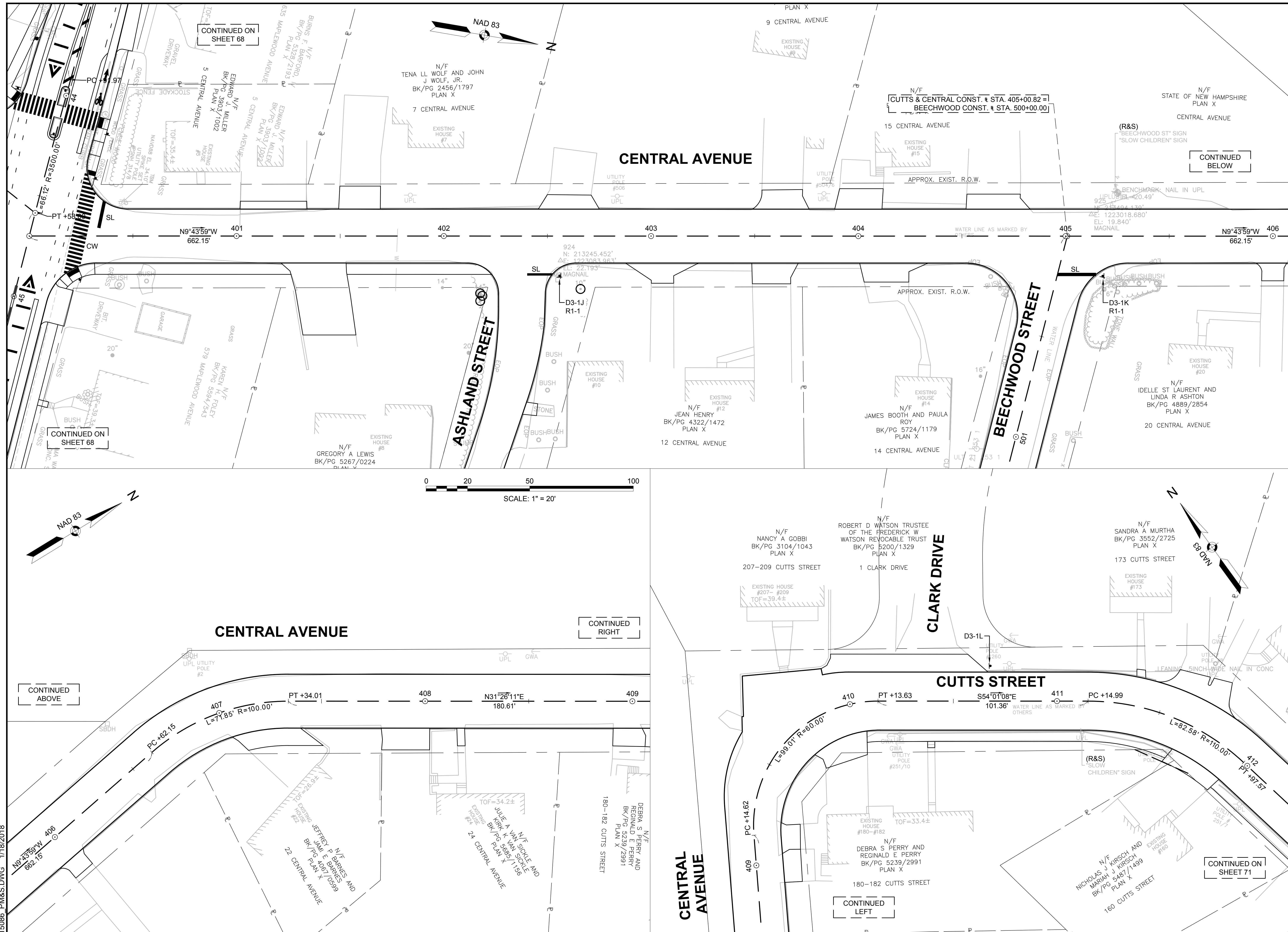
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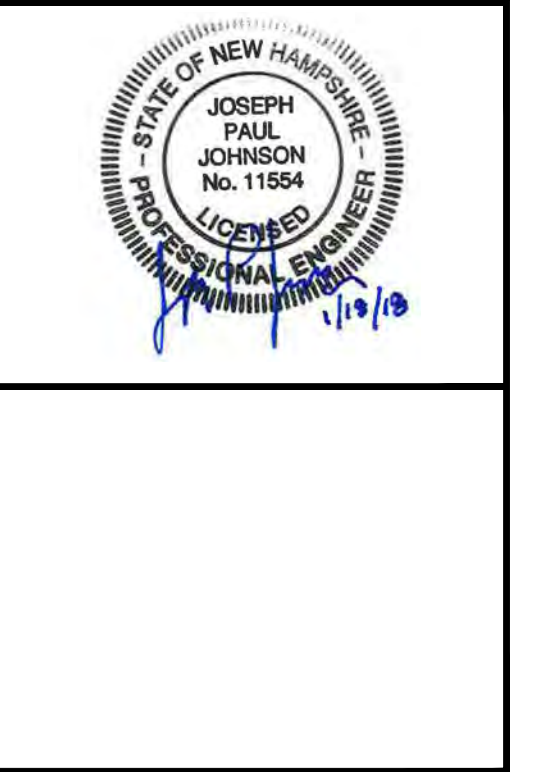
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

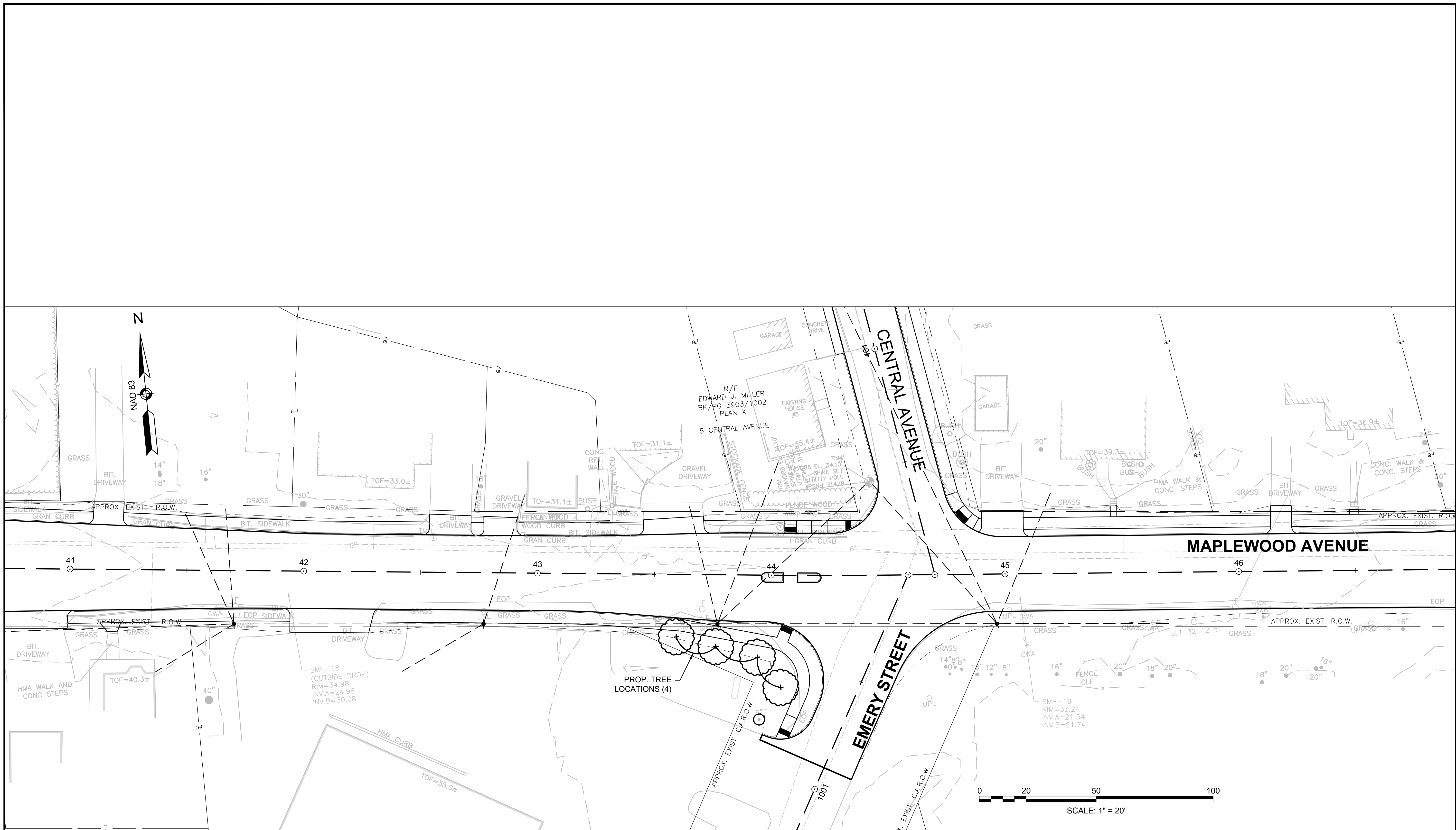
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
R1-1	30	30		MUTCD STANDARD	MUTCD STANDARD	14	RED	WHITE	WHITE	STEEL BREAKAWAY (14 REQ'D)	6.25	87.50
R3-2	24	24		MUTCD STANDARD	MUTCD STANDARD	1	WHITE	BLACK ARROW/RED SYMBOL	WHITE	STEEL BREAKAWAY (1 REQ'D)	4.00	4.00
R3-17	24	18		MUTCD STANDARD	MUTCD STANDARD	12	BLACK & WHITE	BLACK TEXT WHITE SYMBOL	WHITE	STEEL BREAKAWAY (12 REQ'D)	3.00	36.00
R4-7	18	30		MUTCD STANDARD	MUTCD STANDARD	14	WHITE	BLACK	BLACK	STEEL BREAKAWAY (13 REQ'D) 1 MNT w/R1-1	3.75	52.50
W1-1L	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	STEEL BREAKAWAY (1 REQ'D)	6.25	6.25
W3-1	30	30		MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK & RED	BLACK	STEEL BREAKAWAY (1 REQ'D)	6.25	6.25
W4-4	24	12	CROSS TRAFFIC DOES NOT STOP	MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	MNT w/R1-1	2.00	4.00
W11-2	30	30		NH STANDARD	NH STANDARD	8	YELLOW	BLACK	BLACK	STEEL BREAKAWAY (8 REQ'D)	6.25	50.00
W14-1a(L)	36	8	← DEAD END	MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	STEEL BREAKAWAY (1 REQ'D)	2.00	2.00
W14-1a(R)	36	8	DEAD END →	MUTCD STANDARD	MUTCD STANDARD	1	YELLOW	BLACK	BLACK	MNT BTB w/W14-2a(L)	2.00	2.00
W16-7P(L)	24	12		MUTCD STANDARD	MUTCD STANDARD	8	YELLOW	BLACK	BLACK	P5 8 MNT w/W11-2	2.00	16.00
W16-7P(R)	24	12		MUTCD STANDARD	MUTCD STANDARD	2	YELLOW	BLACK	BLACK	P5 2 MNT w/W11-2	2.00	4.00

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)		NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA IN SQUARE FEET	AREA IN SQUARE FEET
	WIDTH (INCHES)	HEIGHT (INCHES)		LETTER HEIGHT	VERTICAL SPACING		BACK-GROUND	LEGEND	BORDER			
D3-1A	48	12	Maplewood Ave	6"C/4.5"C 4.5"C	3" 3"	6	GREEN	WHITE	WHITE	STEEL BREAKAWAY (6 REQ'D)	4.00	24.00
D3-1B	48	12	Woodbury Ave	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/D3-1A	4.00	4.00
D3-1C	42	12	Fairview Dr	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/R1-1	3.50	3.50
D3-1D	36	12	McGee Dr	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/R1-1	3.00	3.00
D3-1E	30	12	Cutts St	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/D3-1A	2.50	2.50
D3-1F	42	12	Prospect St	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/R1-1	3.50	3.50
D3-1G	36	12	Dennett St	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/D3-1A	3.00	3.00
D3-1H	42	12	Dearborn St	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/R1-1	3.50	3.50
D3-1J	42	12	Ashland St	6"D/4.5"D 4.5"D	3" 3"	2	GREEN	WHITE	WHITE	MNT w/R1-1	3.50	7.00
D3-1K	48	12	Beechwood St	6"D/4.5"D 4.5"D	3" 3"	2	GREEN	WHITE	WHITE	MNT w/R1-1	4.00	8.00
D3-1L	30	12	Clark Dr	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	STEEL BREAKAWAY (1 REQ'D)	2.50	2.50
D3-1M	30	12	Leslie Dr	6"D/4.5"D 4.5"D	3" 3"	1	GREEN	WHITE	WHITE	MNT w/R1-1	2.50	2.50

- NOTES:
- ALL WARNING, REGULATORY AND ROUTE MARKERS SHALL BE FABRICATED WITH HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING TYPE III OR IV.
 - ALL SIGNS NOTED AS "R&R" SHALL BE MOUNTED ON NEW BREAKAWAY STEEL SIGN POSTS OR AS OTHERWISE INDICATED.
 - ALL BREAKAWAY STEEL SIGN POSTS SHALL BE TELESCOPIC TYPE POSTS.
 - QUANTITIES OF SIGNS AND POSTS SHOWN ON THIS SHEET MAY DIFFER FROM THE PAVEMENT MARKING AND SIGNING PLANS. WHERE DIFFERENCES OCCUR, THE PAVEMENT MARKING AND SIGNING PLANS SHALL PREVAIL.

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: TQN
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NOTE: TREE LOCATIONS SHOWN IN APPROXIMATE LOCATIONS ONLY. FINAL SPECIES AND LOCATIONS WILL BE PROVIDED BY THE OWNER.

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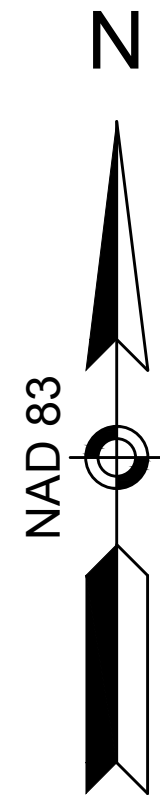
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS
 CHECKED BY: JPJ

LANDSCAPING PLAN AND DETAILS

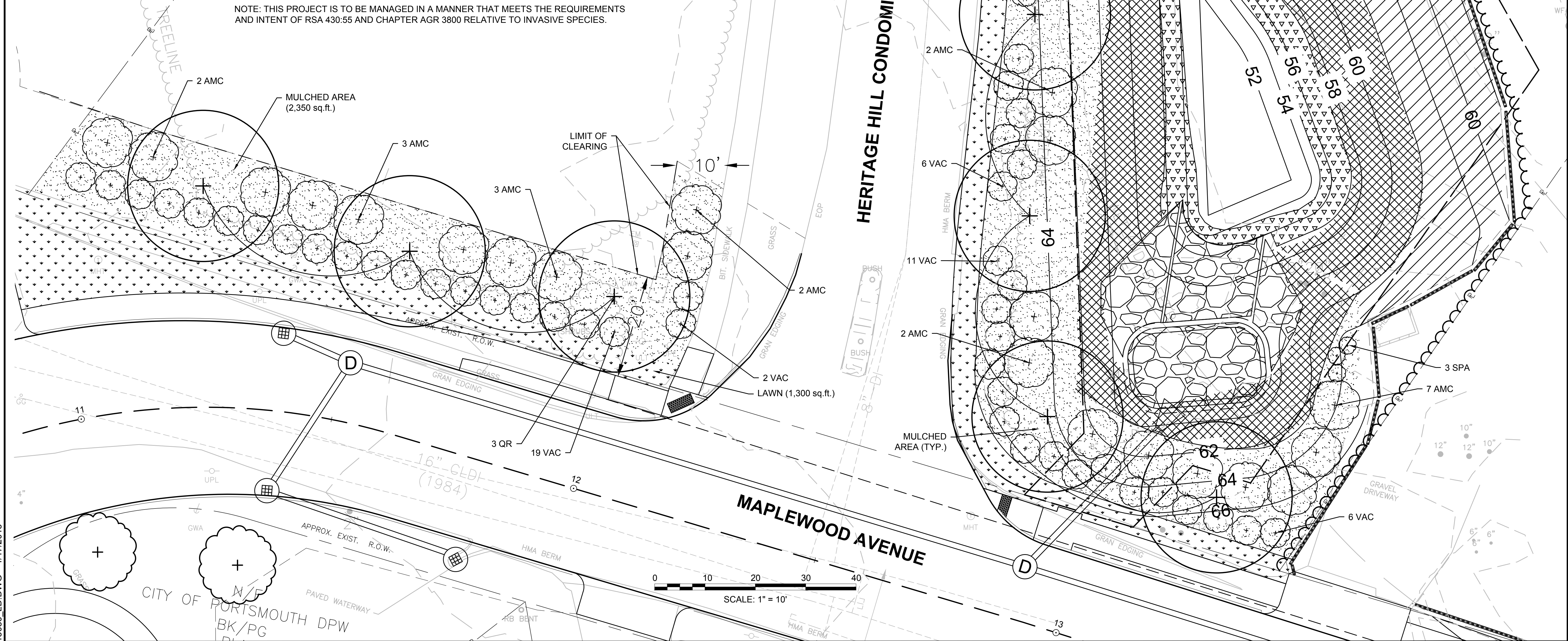
SCALE:
 1" = 20'
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PLANTING SCHEDULE

Symbol	Scientific Name	Common Name	Size	Quantity	Spacing	Notes
TREES						
AR	ACER rubrum 'Red Sunset'	Red Maple	1.5-2" cal.	6	see plan	Excellent reliable orange to red fall color. Vigorous. Very hardy
QR	QUERCUS rubra	Northern Red Oak	1.5-2" cal.	3	see plan	Adaptable and hardy large tree with brilliant fall color
SHRUBS						
AMC	AMELANCHIER canadensis	Canadian Serviceberry	5-6'	26	see plan	Deciduous, early-flowering, small tree. White flowers
COS	CORNUS sericea 'Artic Fire'	Artic Fire Red Twig Dogwood	3-4' ht	3	see plan	Compact, dense form growing wider than tall. Bright red bark
SPA	SPIRAEA alba	White Meadowsweet	3-4' ht	3	see plan	Common to wet meadow edges, white flowers in summer
VAC	VACCINIUM corymbosum 'Patriot'	Northern Highbush Blueberry	3-4' ht	56	see plan	Early crop of large sweet blueberries and profusion of pink-tinged white flowers
ZONE 1-2 (Deep water pool)						
STP	STUCKENIA pectinata	Sago Pondweed	bare root	200	see plan	Submerged perennial plant with narrow thread-like leaves.
VAA	VALLISNERIA americana	American Eelgrass	bare root	200	see plan	Perennial long-leaved plant that provides habitat for fish and oxygenates the water
SEED MIX						
LAWN				2520	sq. ft.	
SEED 1	New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites			3740	sq. ft.	
SEED 2	New England Conservation/Wildlife Mix			1590	sq. ft.	

NOTE: THIS PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:55 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.



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PORTSMOUTH, NH

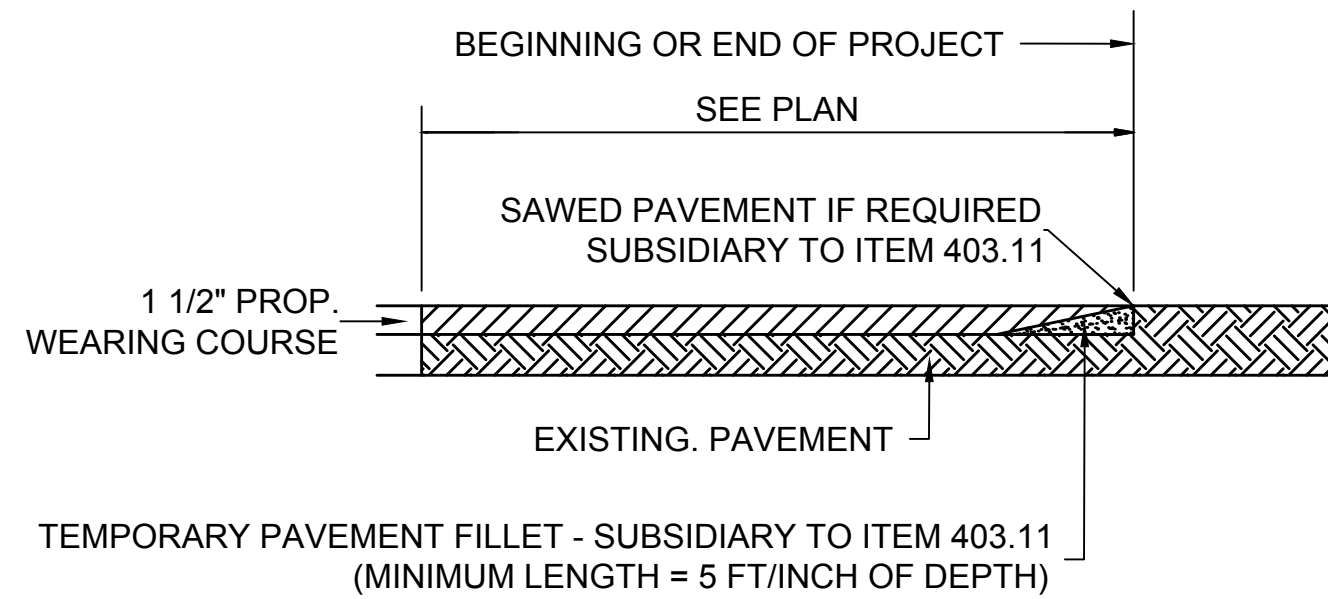
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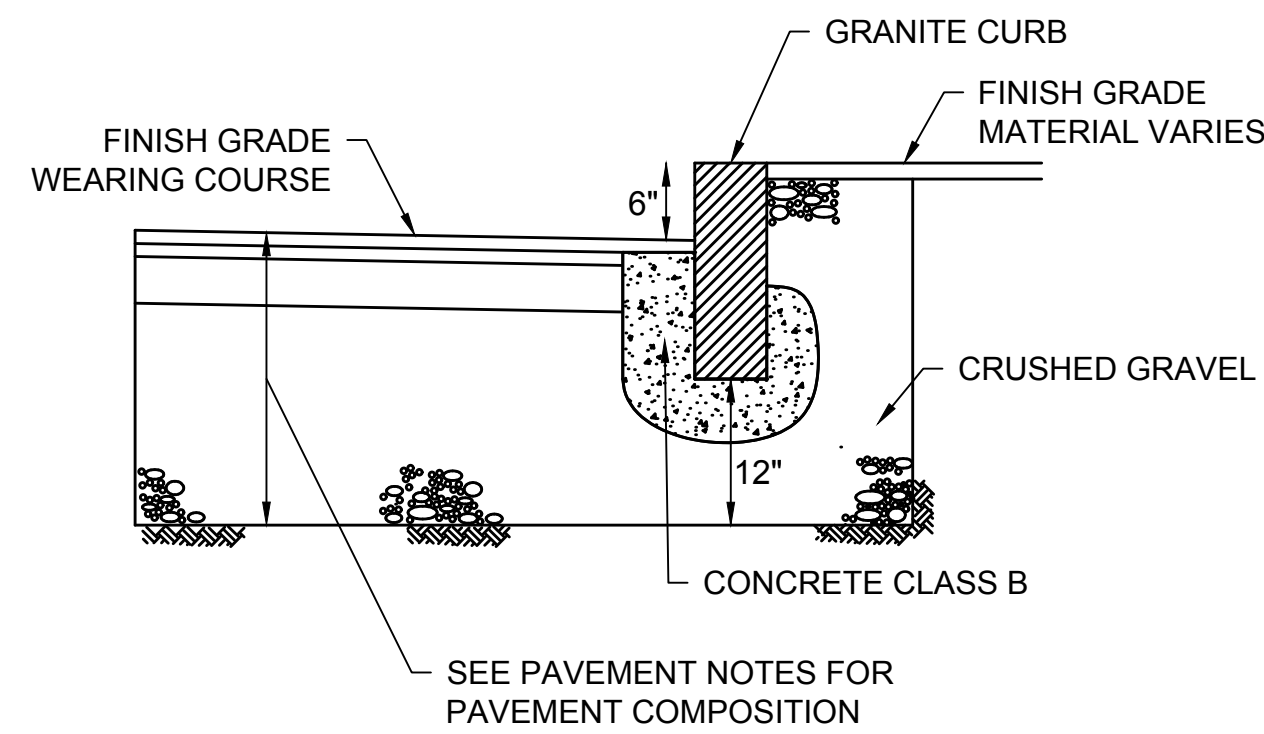
LANDSCAPING PLAN AND DETAILS

SCALE: 1" = 10'
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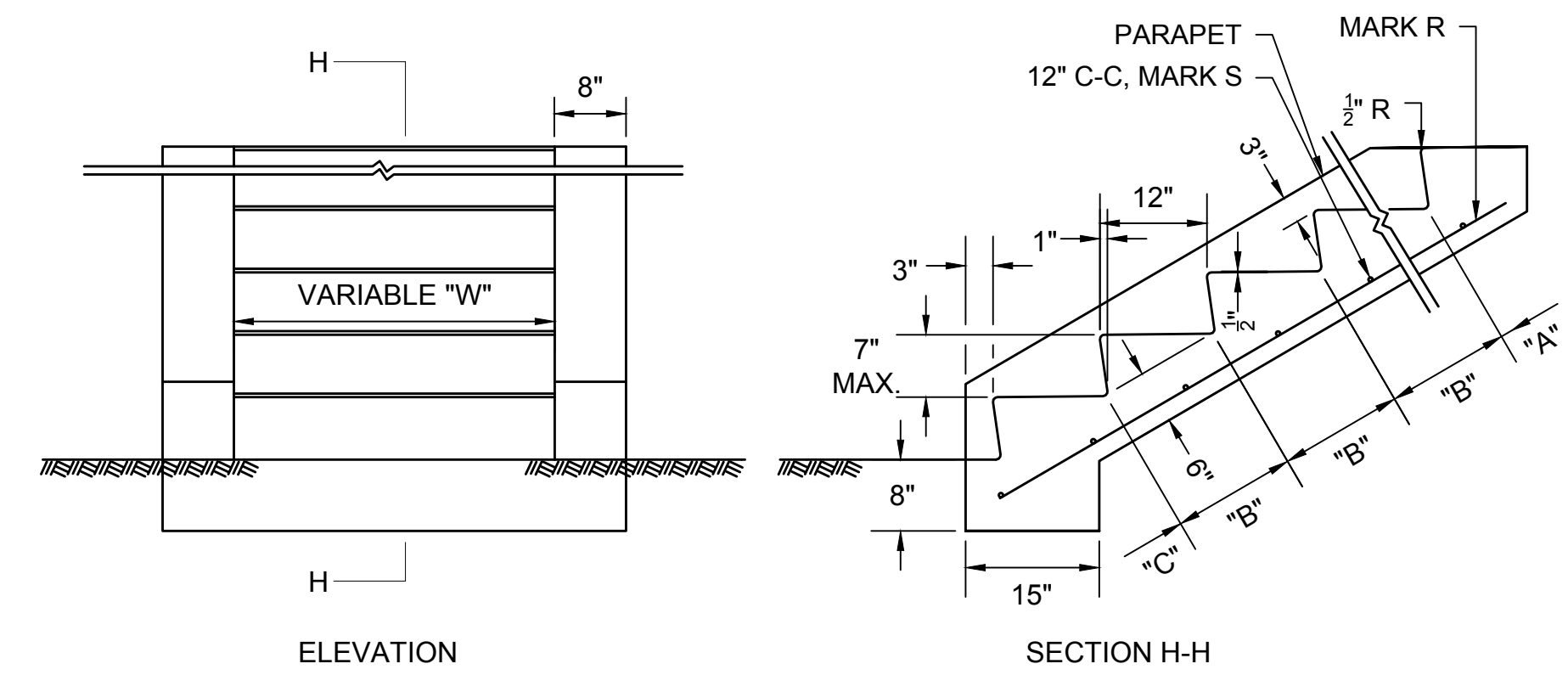
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INLAY PAVEMENT MATCH TYPICAL
NOT TO SCALE

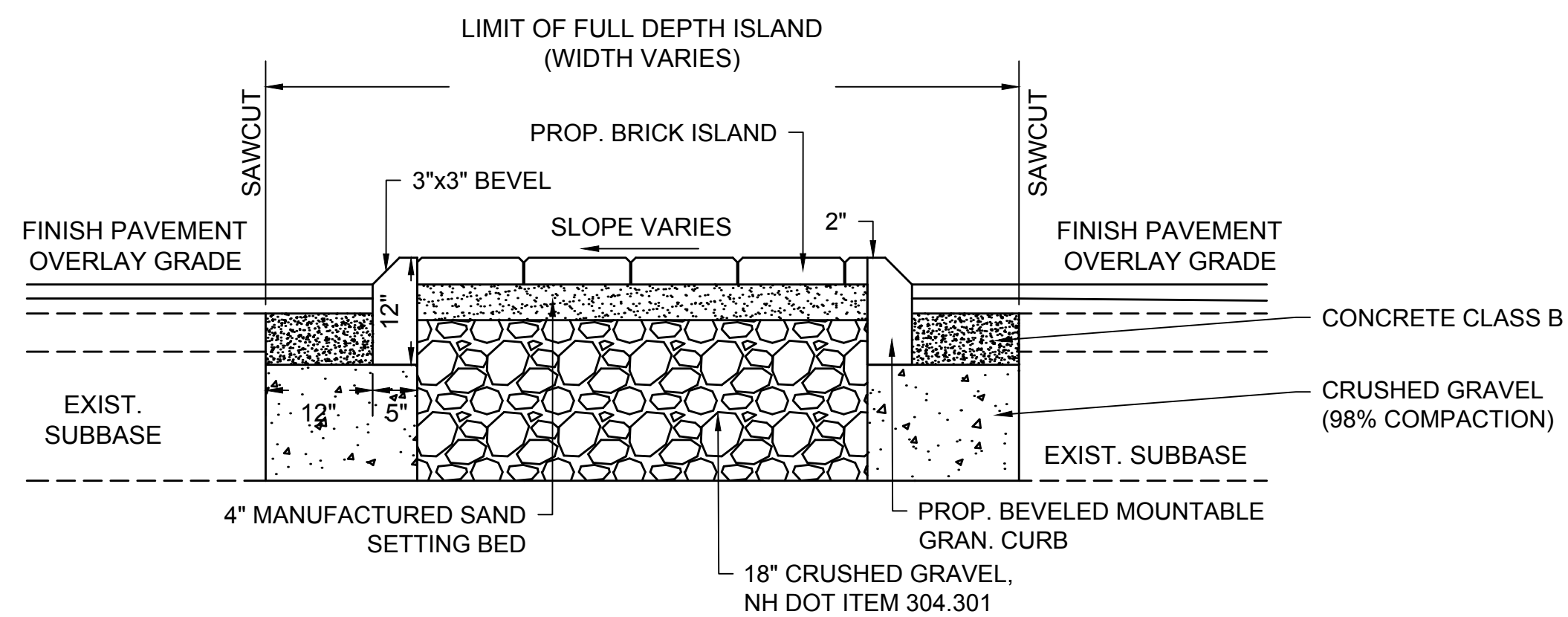


GRANITE CURB
NOT TO SCALE

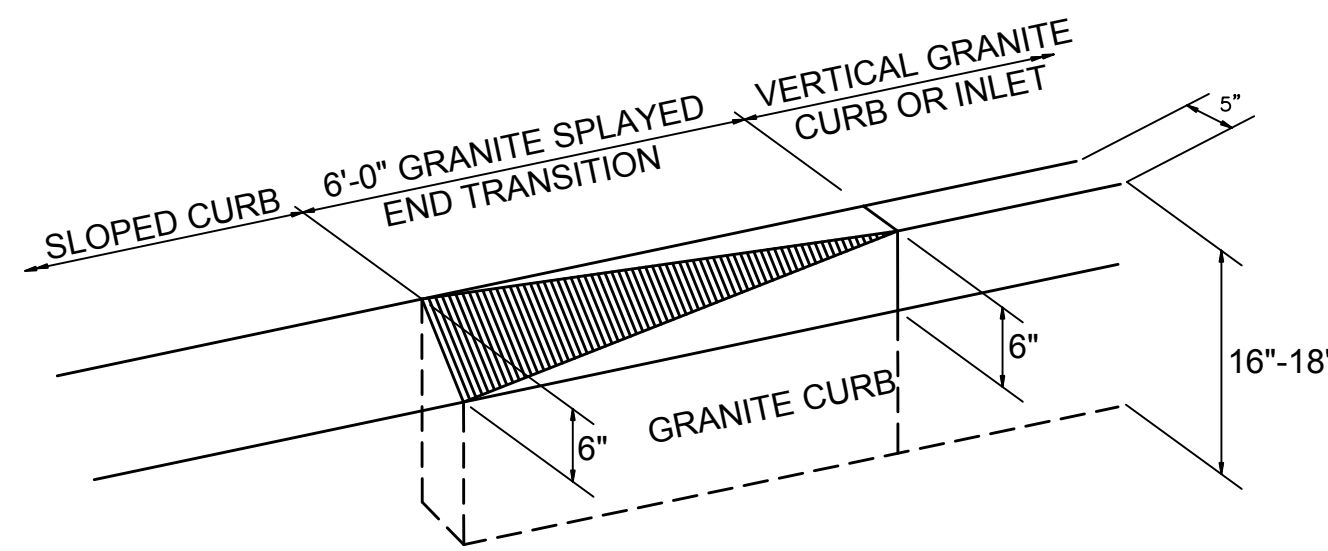


REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH
R	# 5	1 EA. PARAPET	8" FOR "A"
	1.043 # / FT	1 EA. FT. OF WIDTH "W"	+13" FOR "B" +16" FOR "C"
S	# 4	1 FOR "A"	6" EA. PARAPET
	0.668 # / FT	1 FOR "B"	+12"/FT. OF WIDTH "W"
		1 FOR "C"	

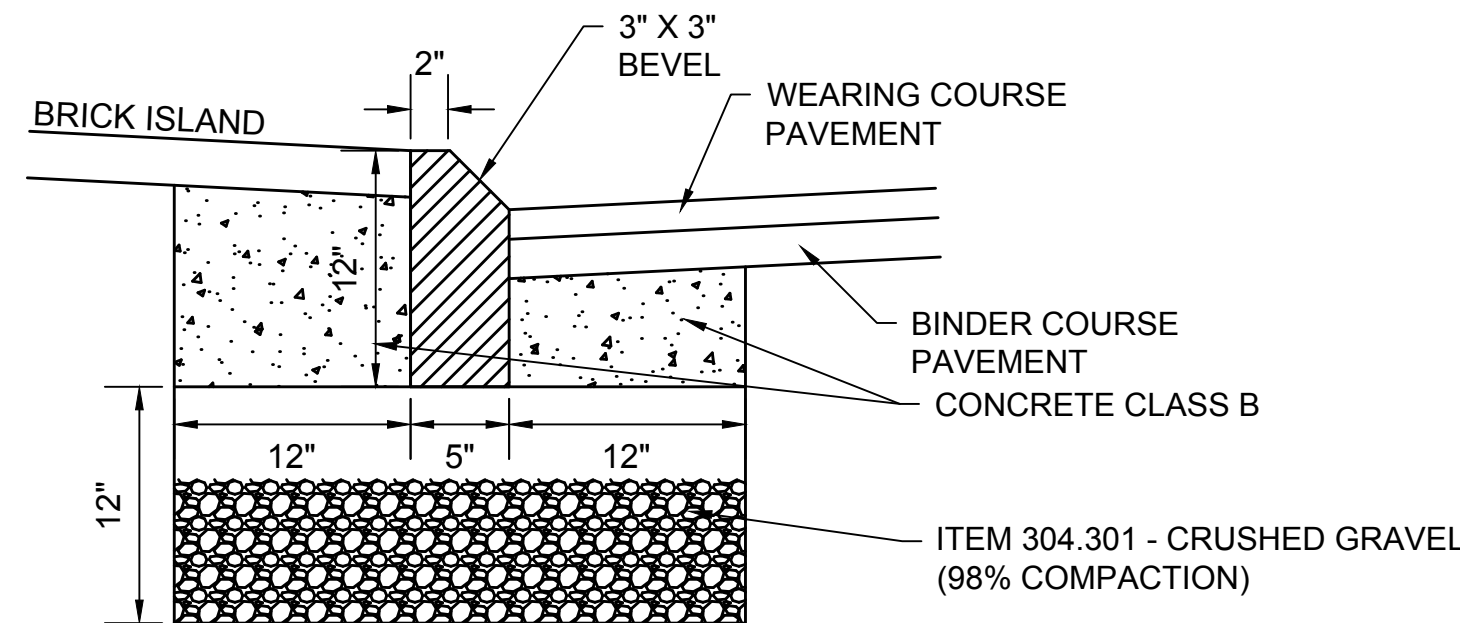
CONCRETE STEPS
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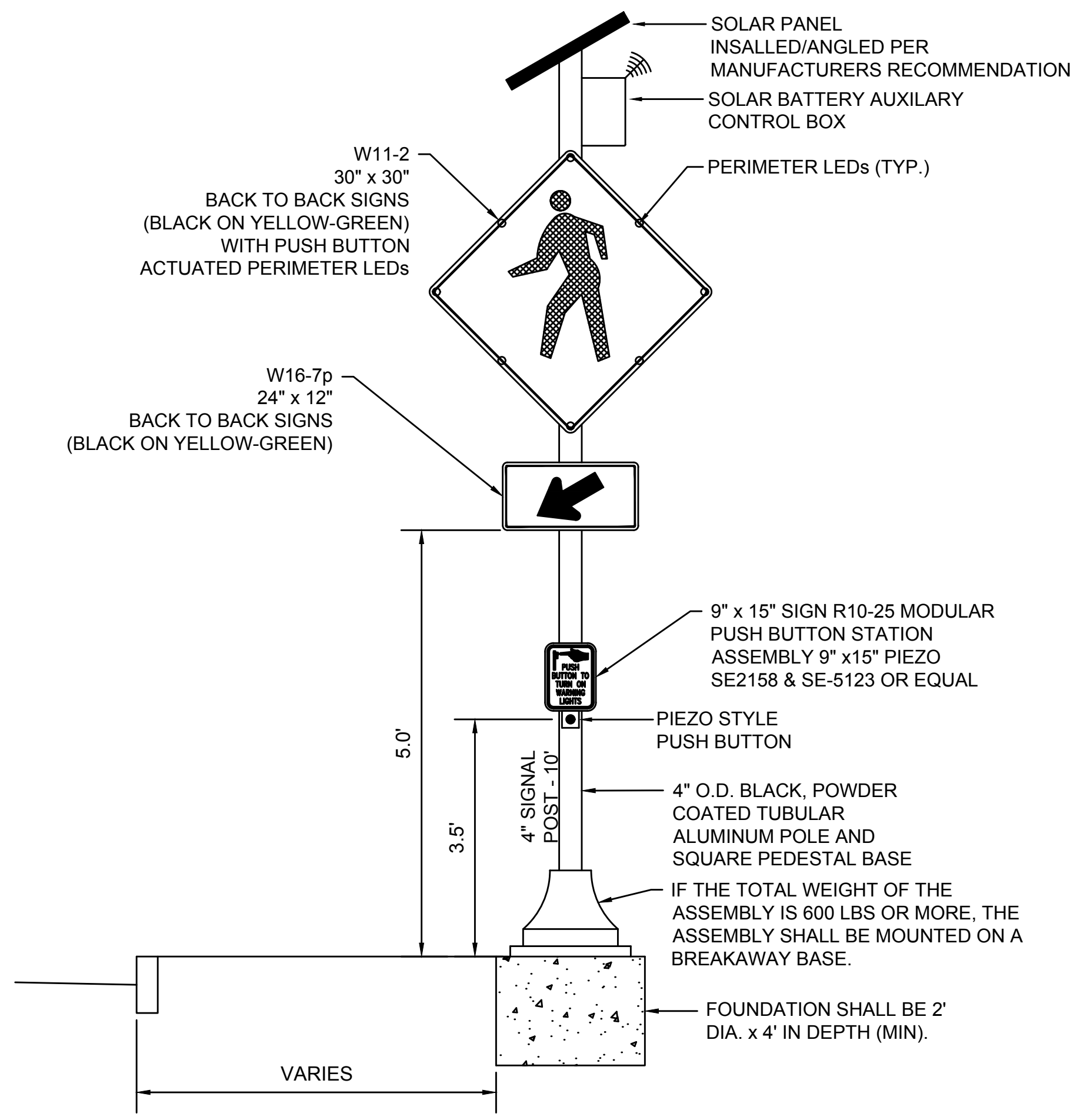
BRICK ISLAND W/ BEVELED MOUNTABLE GRANITE CURB DETAIL
NOT TO SCALE



STRAIGHT TO SLOPE CURB TRANSITION
NOT TO SCALE



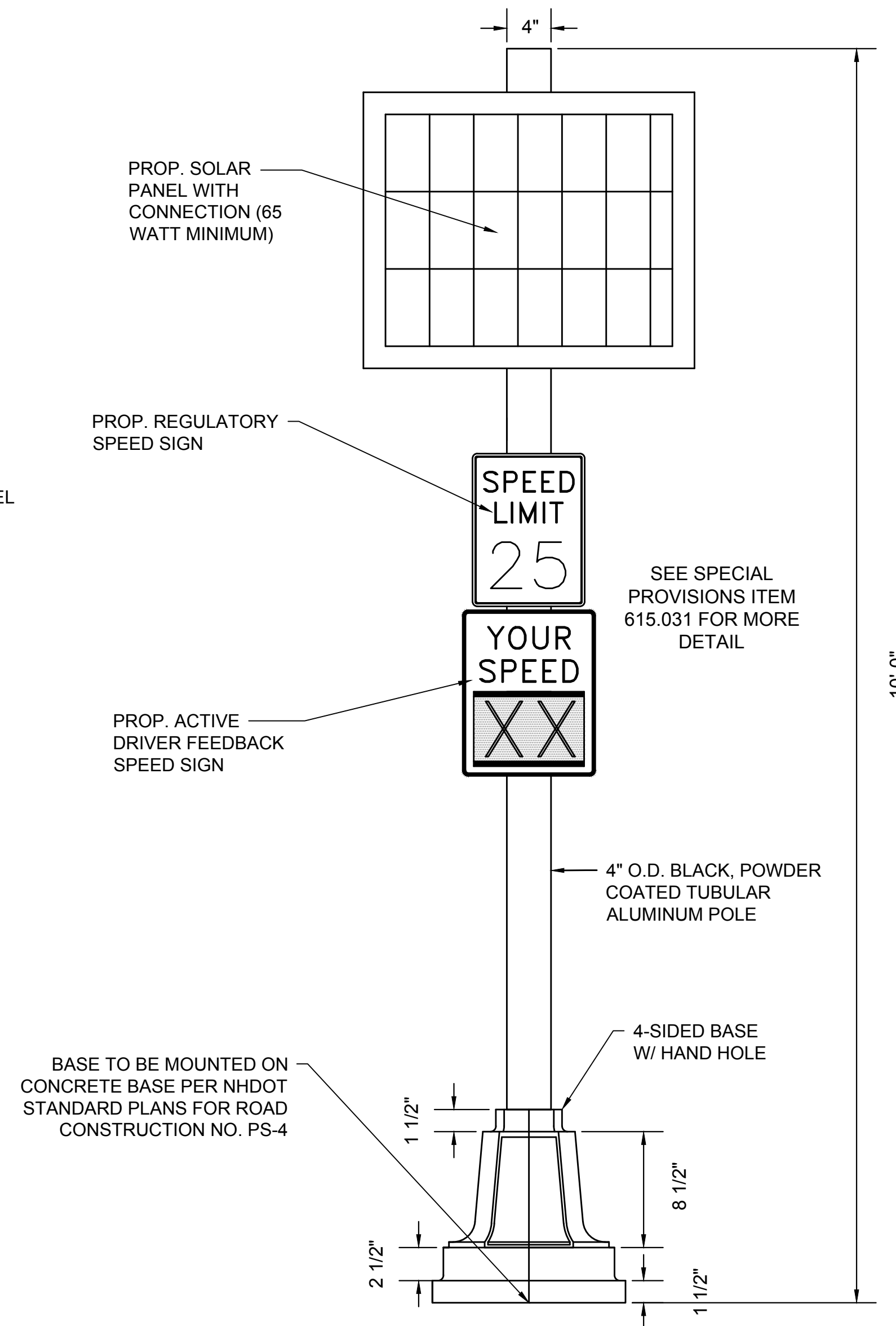
BEVELED MOUNTABLE CURB
NOT TO SCALE



PEDESTRIAN ACTUATED CROSSING ASSEMBLY
NOT TO SCALE

NOTES:

- FINAL LOCATIONS OF THE CROSSING ASSEMBLY WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER.
- TREE TRIMMING NEEDED TO IMPROVE VISIBILITY OF THE CROSSING ASSEMBLIES SHALL BE INCIDENTAL TO ITEM 616.21.
- PUSH BUTTON SHALL BE ORIENTED TO FACE MOST ACCESSIBLE LOCATION ON ADJACENT SIDEWALK AS DIRECTED BY THE ENGINEER.
- CROSSING ASSEMBLY FOUNDATION SHALL BE FLUSH WITH ADJACENT SIDEWALK TO ALLOW FOR SIDEWALK FLOW PASSAGE.
- POST AND BASE SHALL BE BLACK, POWDER COATED.



ACTIVE DRIVER FEEDBACK SPEED SIGN MOUNTED ON A STANDARD TRAFFIC SIGNAL POST & BASE
NOT TO SCALE



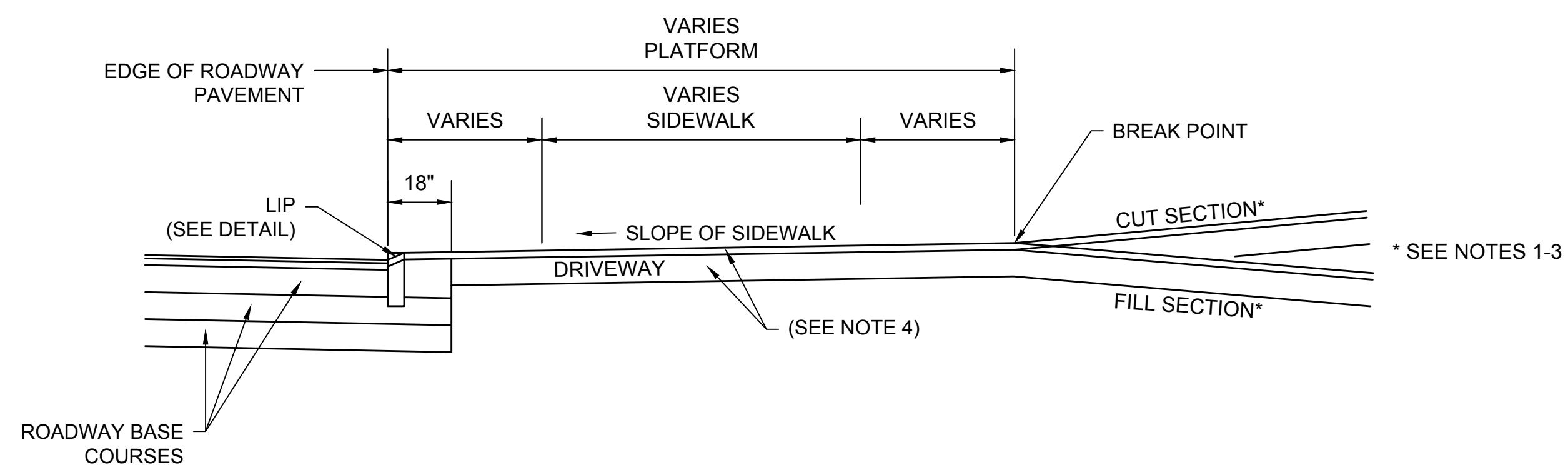
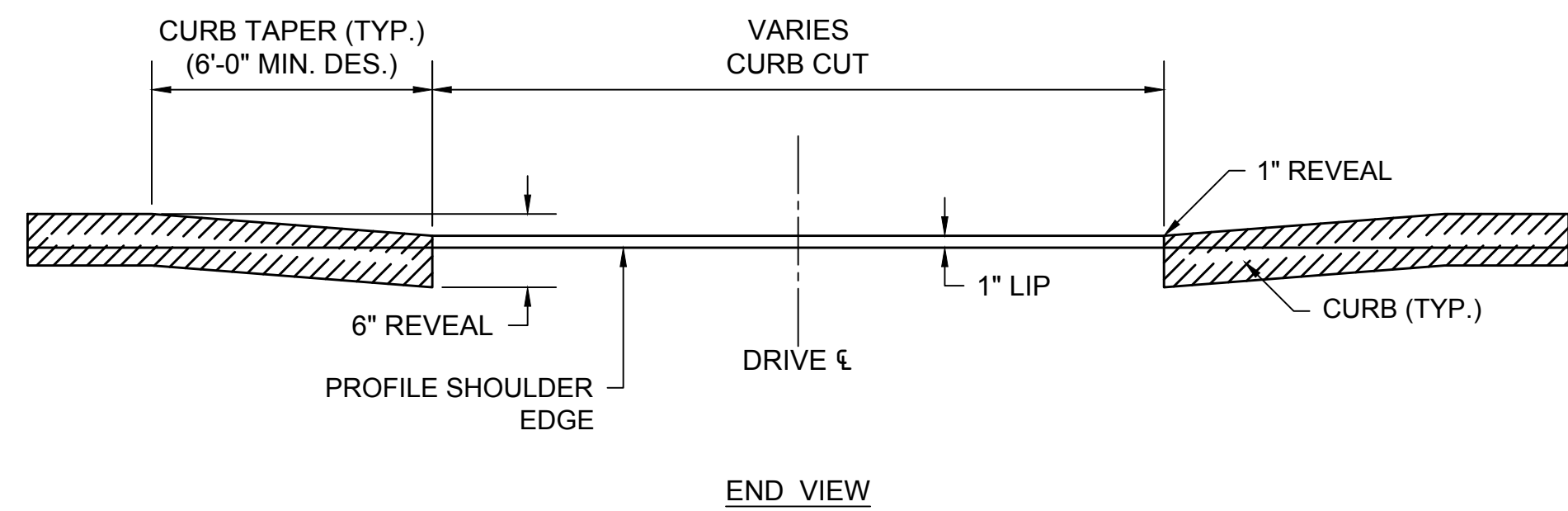
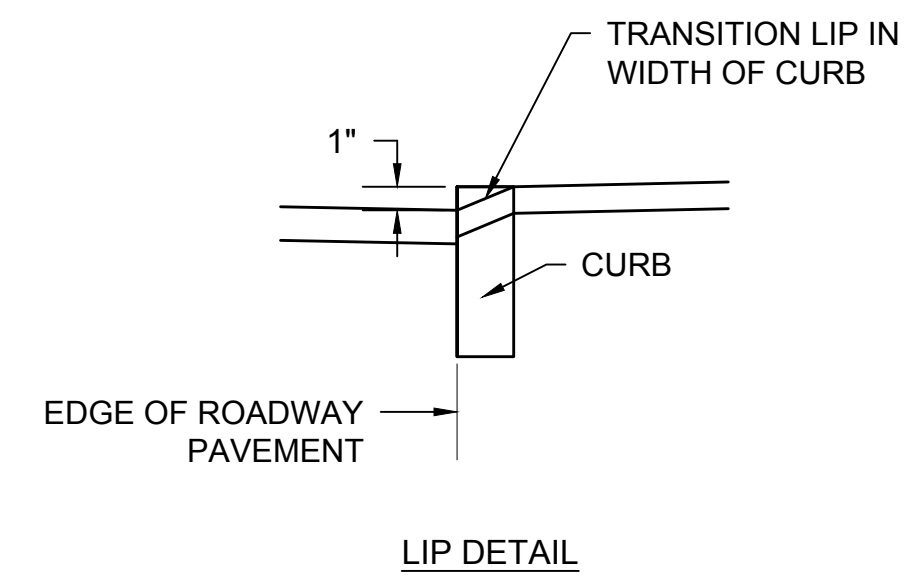
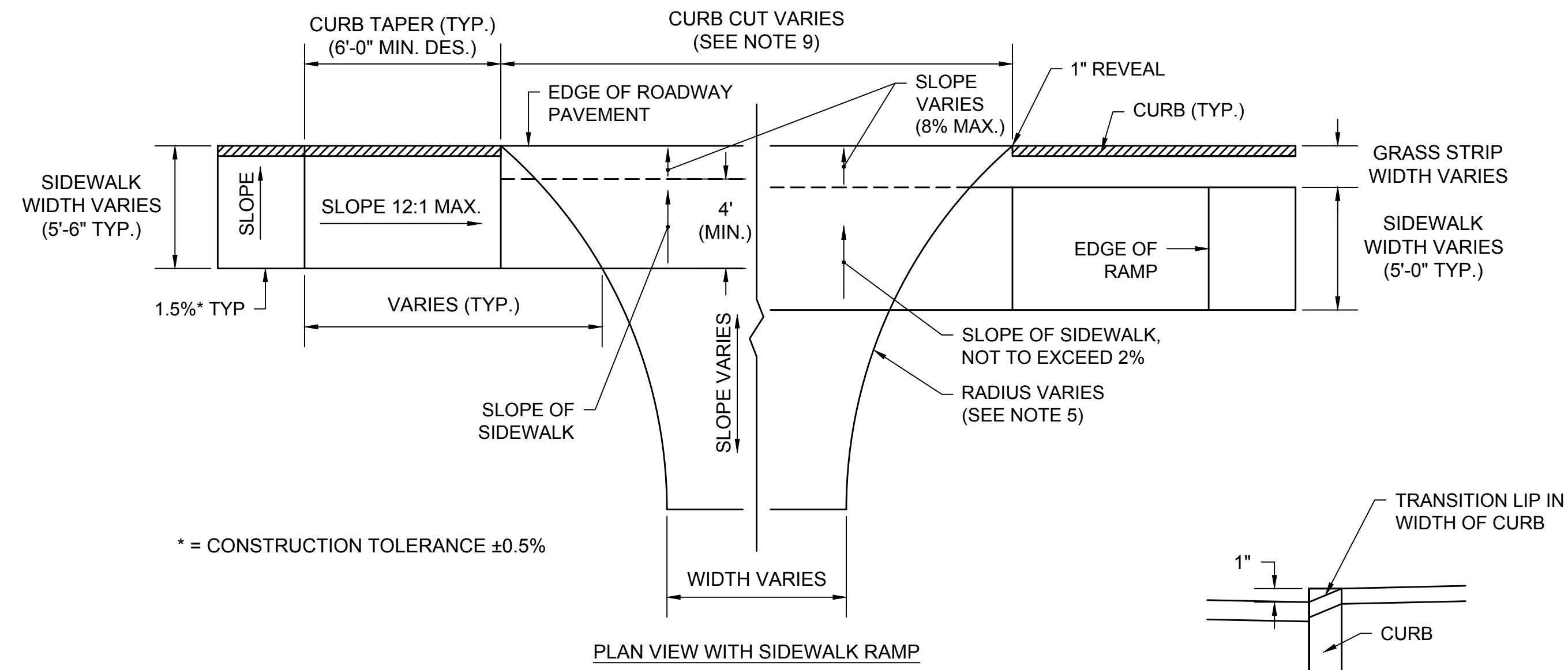
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PORTSMOUTH, NH

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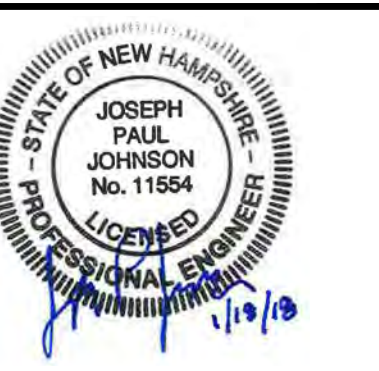
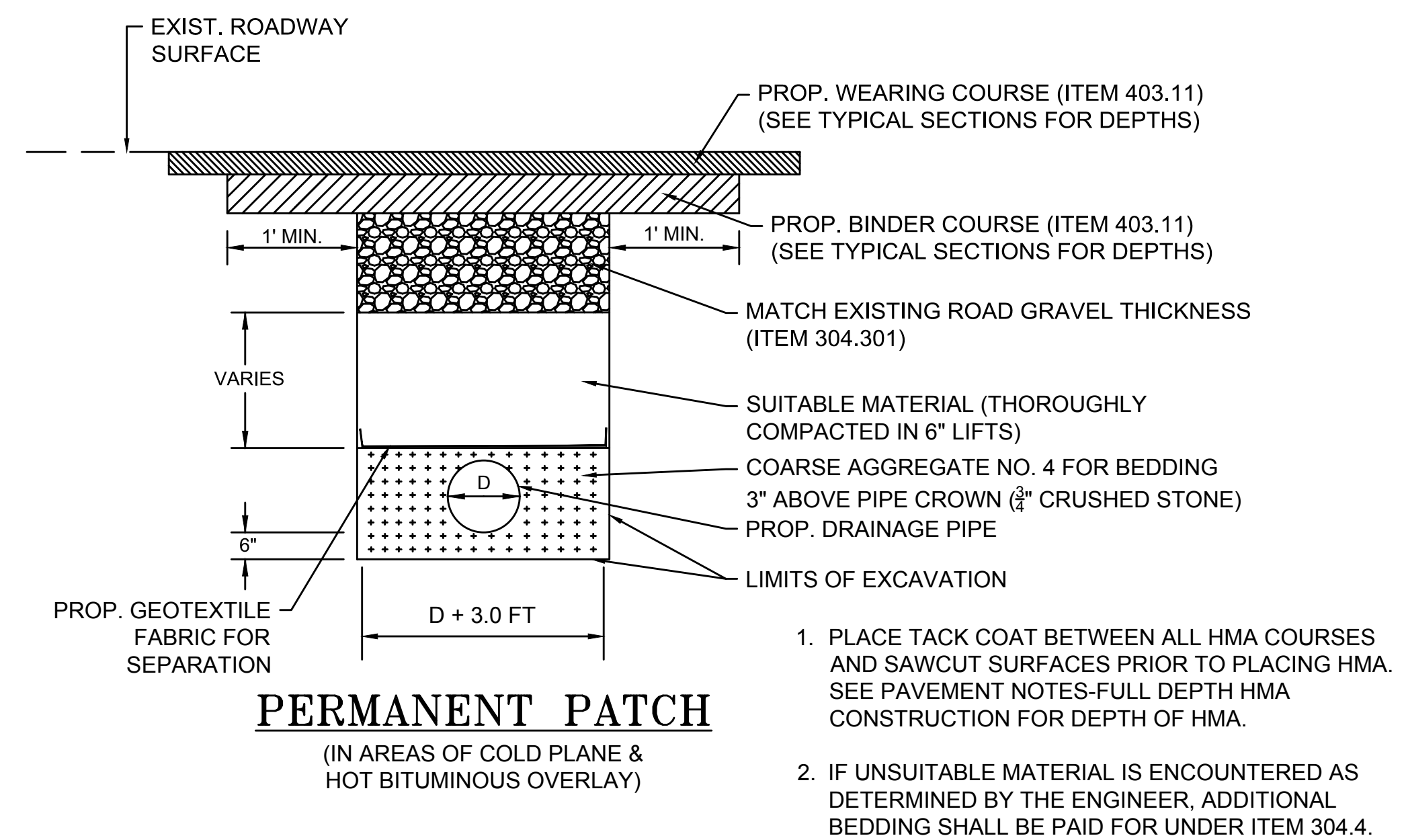
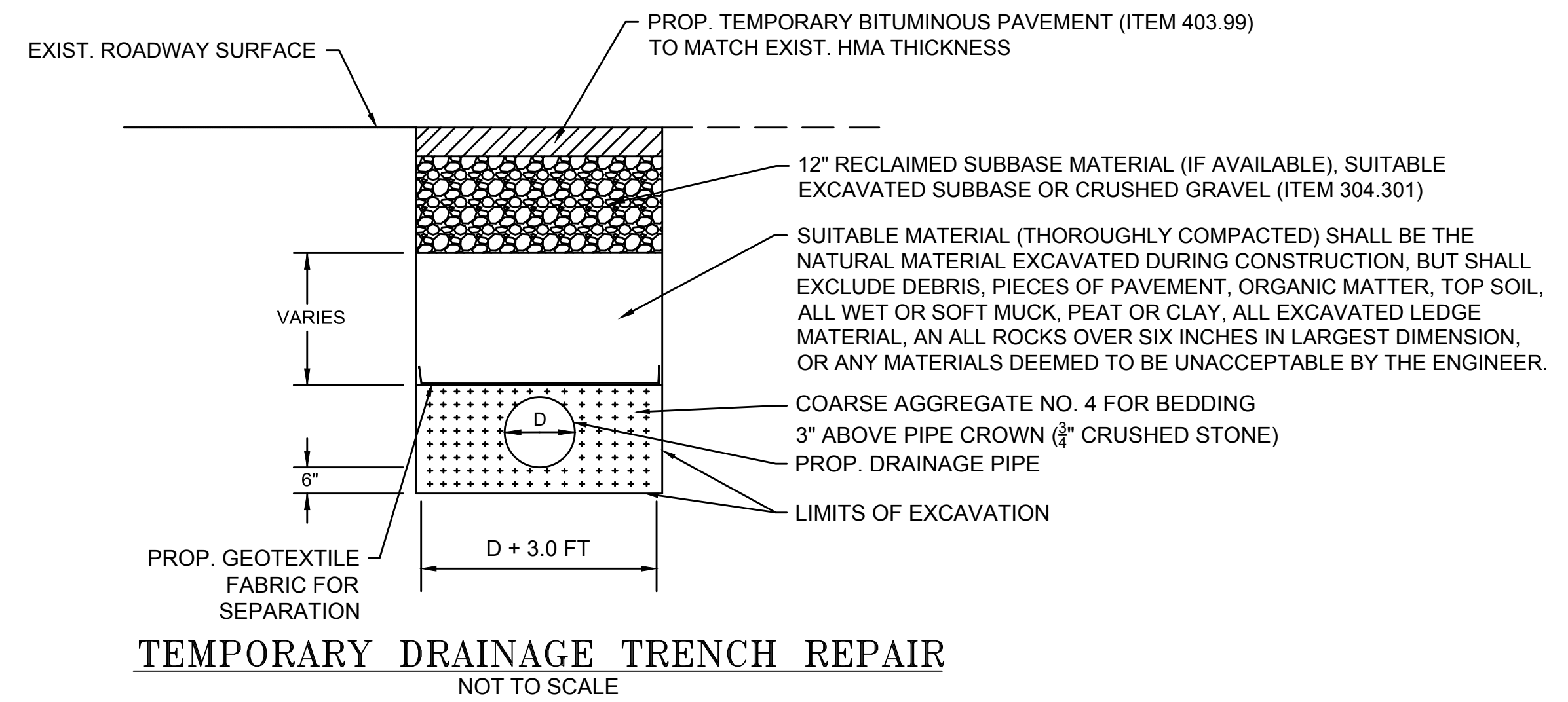
STANDARD DETAIL SHEETS
ROADWAY
DETAILS

SCALE: N.T.S.
2015086.00



- NOTES:
- GRADES OF MAJOR ENTRANCES BEYOND THE PLATFORM SHOULD NOT EXCEED 8%.
 - GRADES OF OTHER DRIVES BEYOND THE PLATFORM SHOULD NOT EXCEED 15%.
 - THE ALGEBRAIC DIFFERENCE BETWEEN TWO ADJACENT GRADES SHOULD NOT EXCEED 10%.
 - SEE SHEET 7 FOR PAVEMENT NOTES
 - FOR DESIGN CRITERIA AND OTHER ADDITIONAL INFORMATION, REFER TO THE NHDOT DRIVEWAY MANUAL.
 - DITCHES ARE RECOMMENDED FOR UNCURBED DRIVEWAYS IN CUT SLOPES.
 - USE SLOPED END SECTIONS ON DRIVE PIPES FOR UNCURBED DRIVEWAYS.
 - CURBING CAN BE FLARED TO FIT DRIVE RADII IF APPROPRIATE OR ENDED AS DETAILED ABOVE.

TYPICAL URBAN CURVED DRIVE IN CUT/FILL SECTION
NOT TO SCALE



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STANDARD
DETAIL SHEETS
ROADWAY
DETAILS

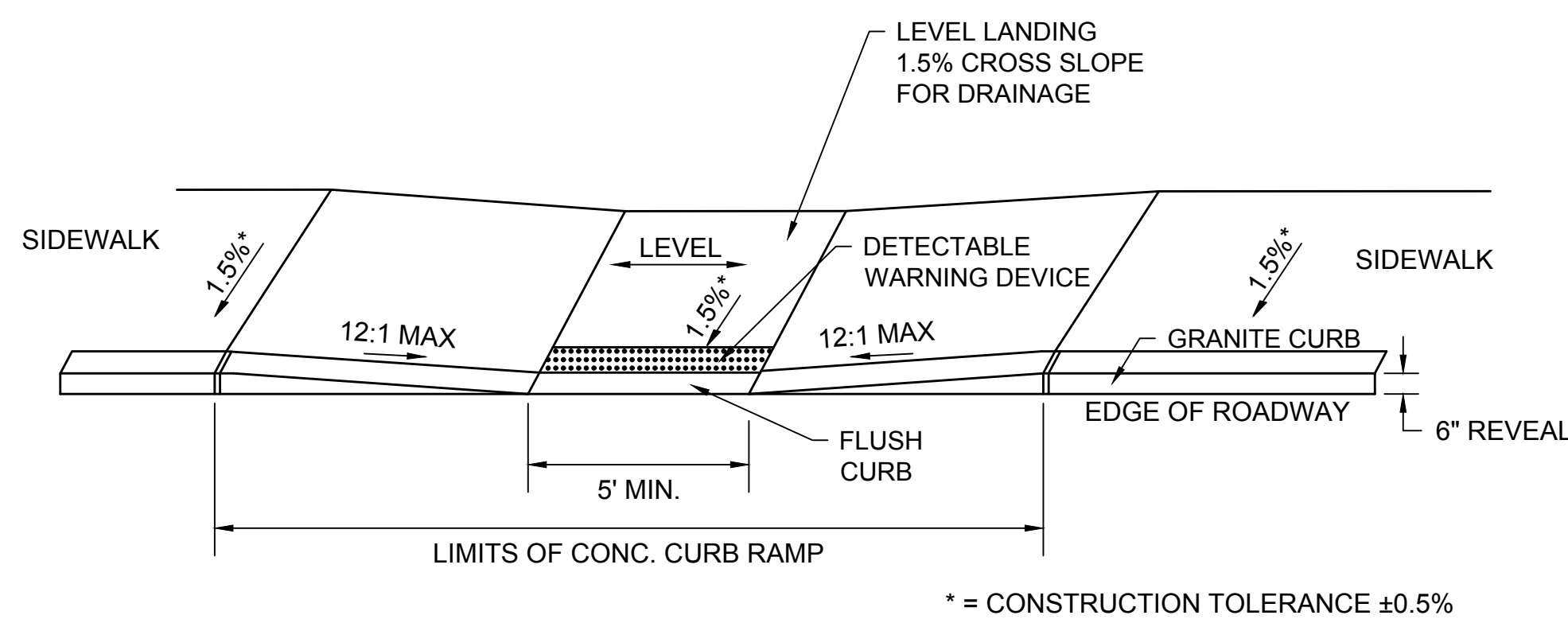
SCALE: N.T.S.

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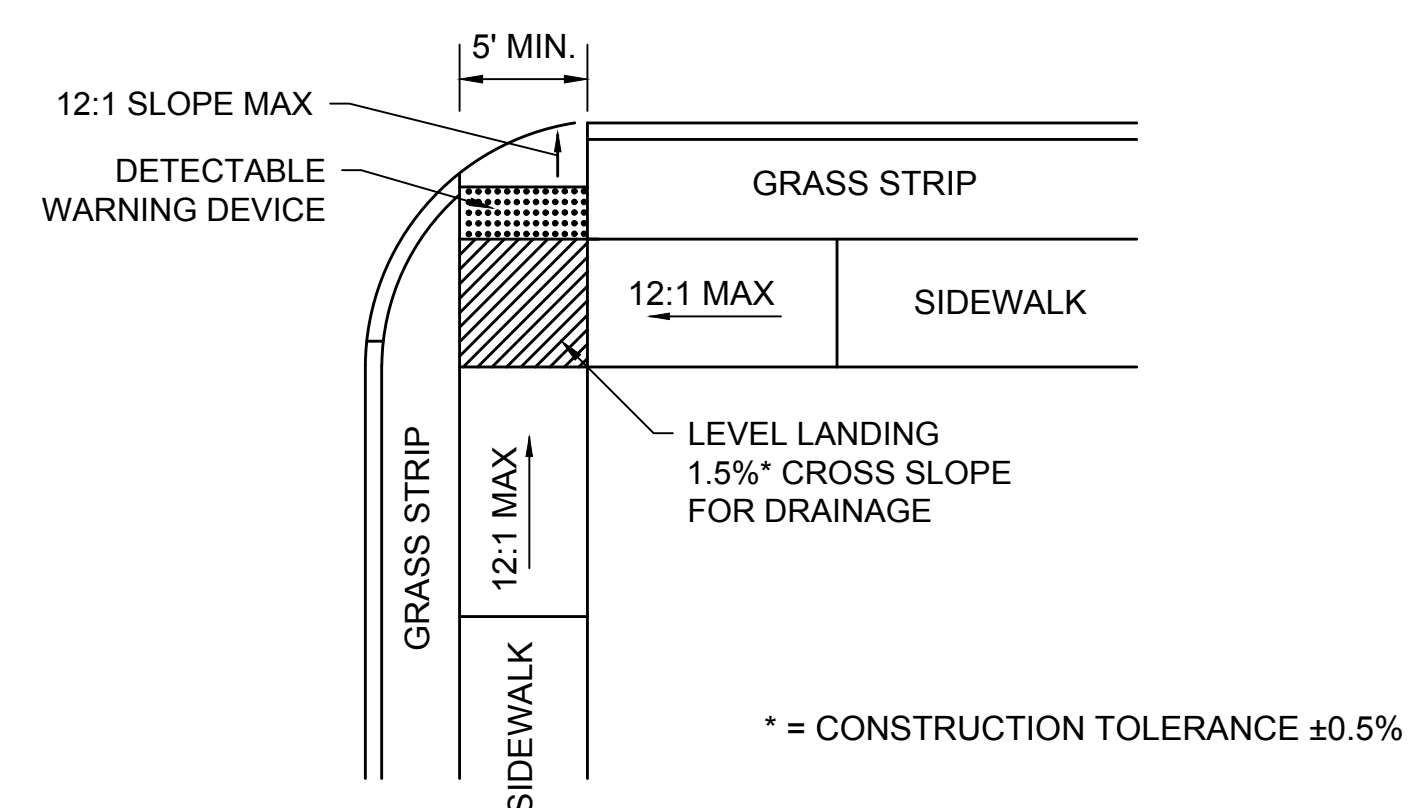


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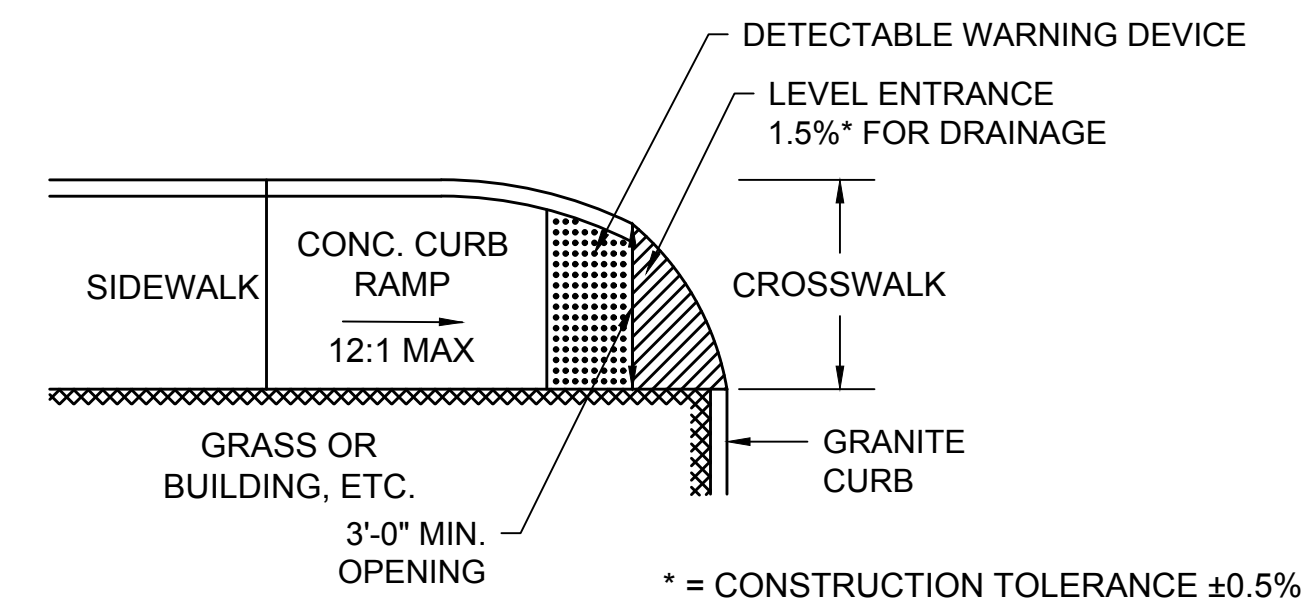
**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



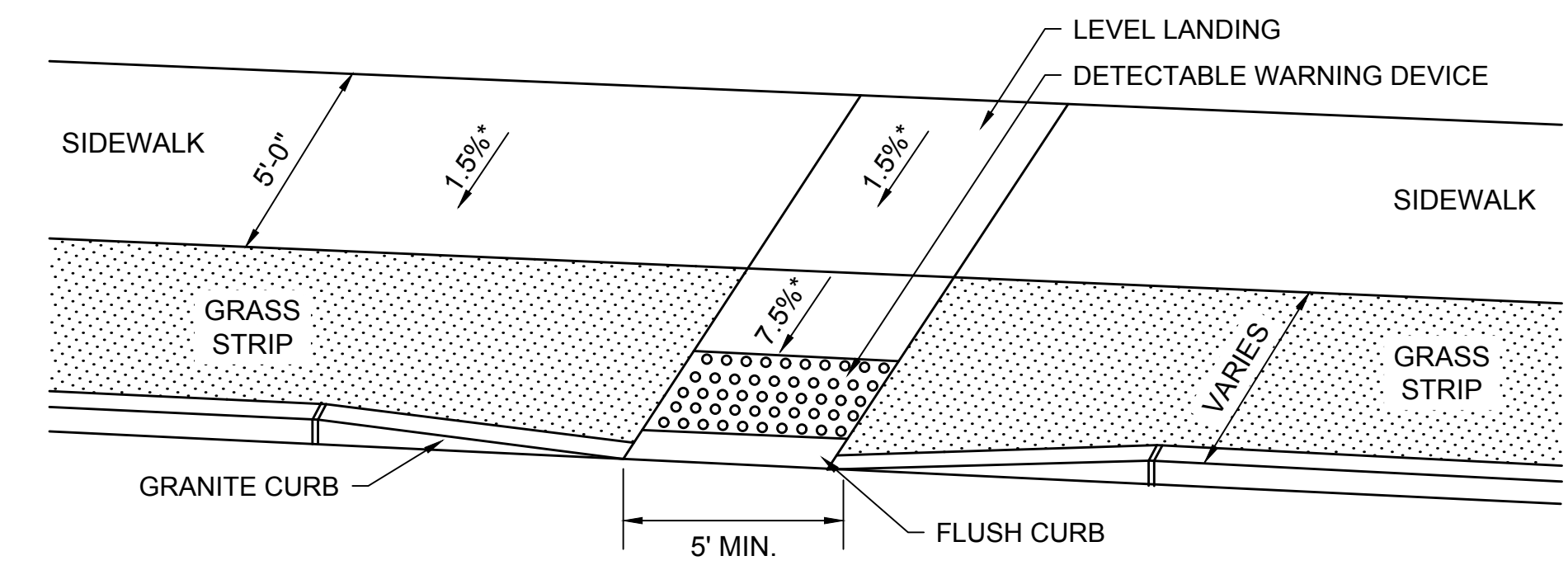
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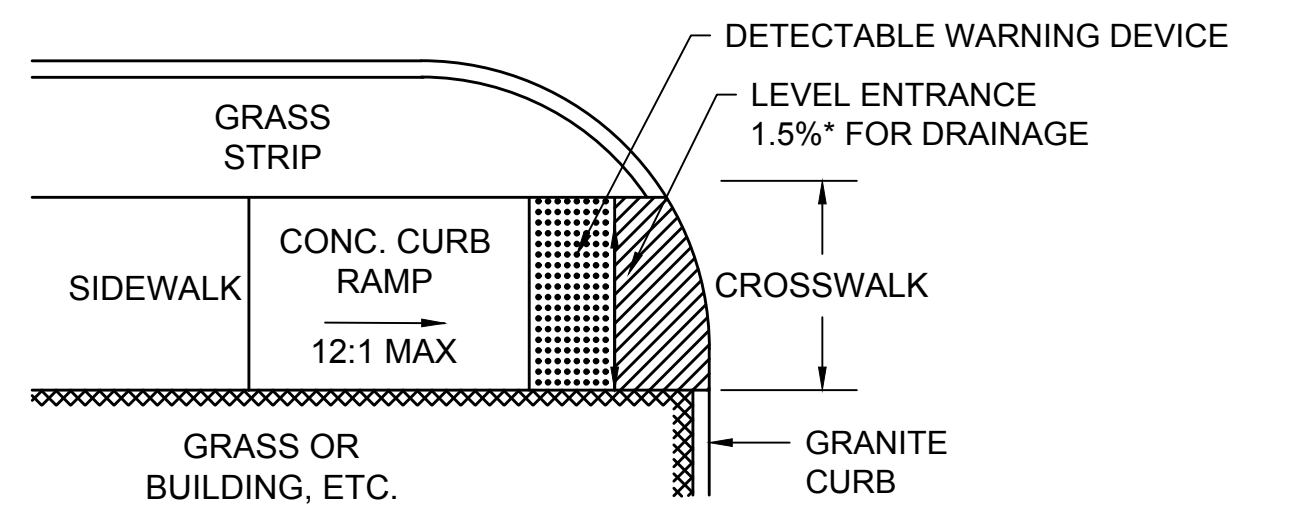
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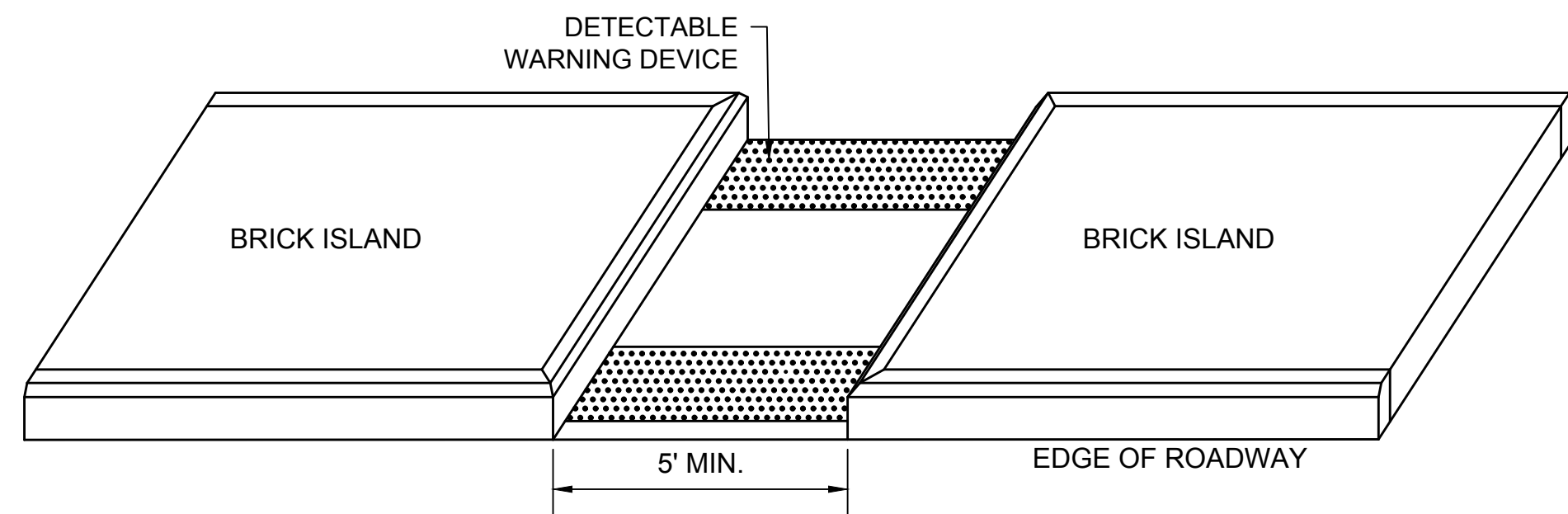
* = CONSTRUCTION TOLERANCE ±0.5%



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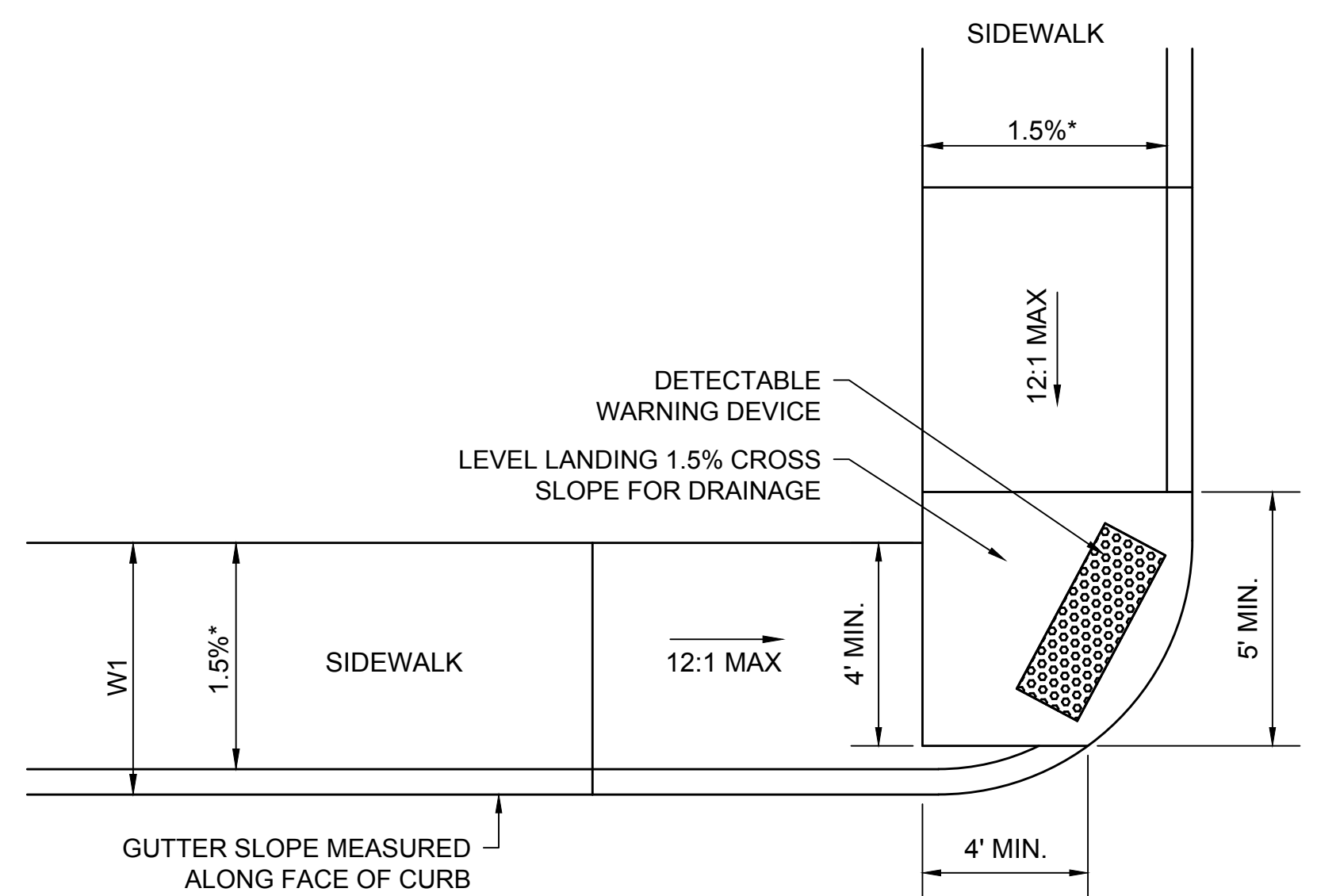


* = CONSTRUCTION TOLERANCE ±0.5%



NOTES:

- A MINIMUM RUNNING SLOPE OF 1.5% THROUGH THE CUT THROUGH SHALL BE PROVIDED TO PREVENT PUDDLING WITHIN THE CUT THROUGH.
- A 2' DETECTABLE WARNING DEVICE SHALL BE LOCATED AT EACH EXIT/ENTRANCE TO THE CEM. CONC. CUT THROUGH.
- THE CEM. CONC. PATH THROUGH THE ISLAND SHALL BE ADA COMPLIANT IN TERMS OF MAX. RUNNING SLOPE AND CROSS SLOPE.



* = CONSTRUCTION TOLERANCE ±0.5%

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1/18/2018
 DRAWN/DESIGN BY: DPE
 CHECKED BY: JPJ

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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

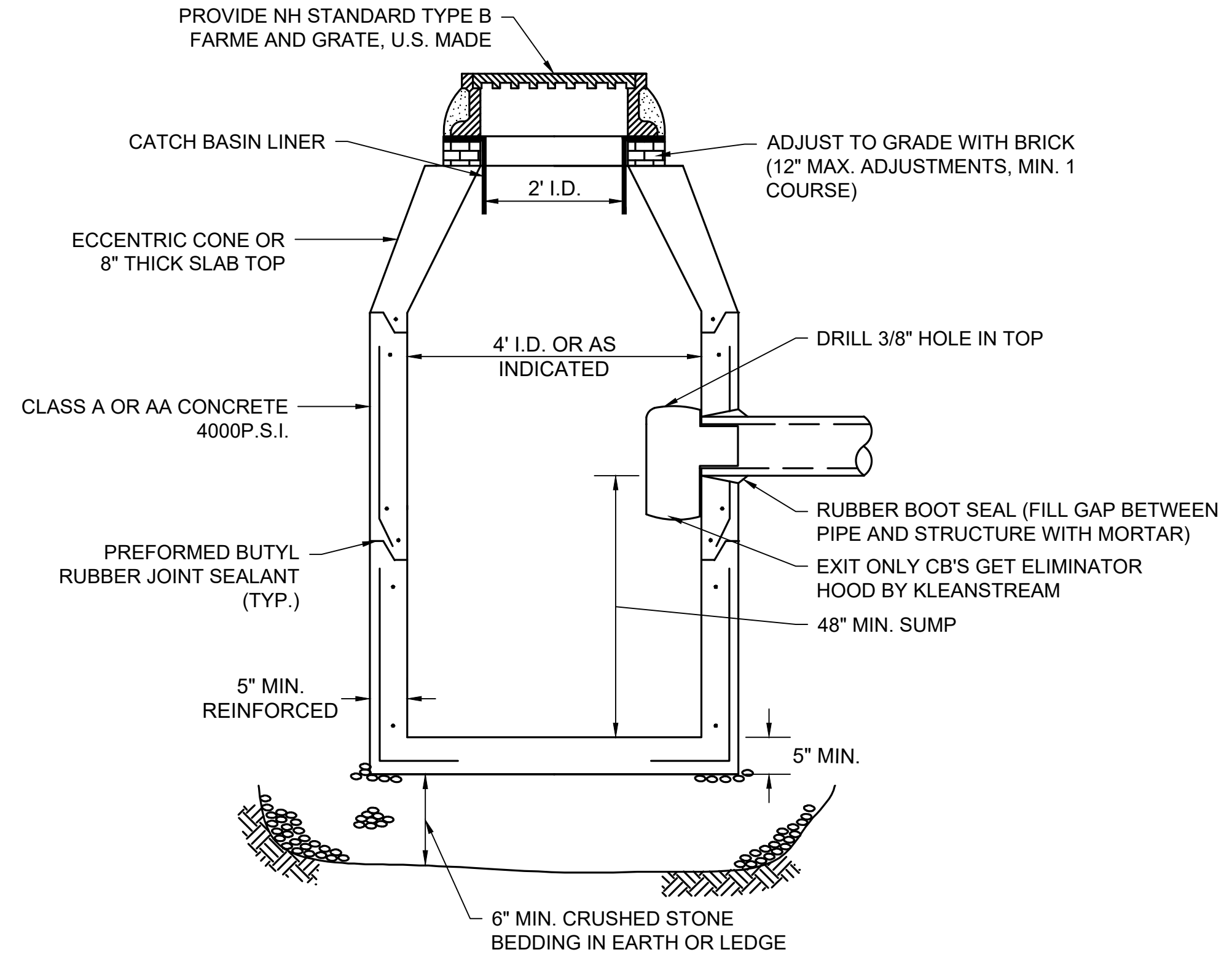
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NO.	REVISION	DATE

**STANDARD
 DETAIL SHEETS
 DRAINAGE
 DETAILS**

SCALE: N.T.S.

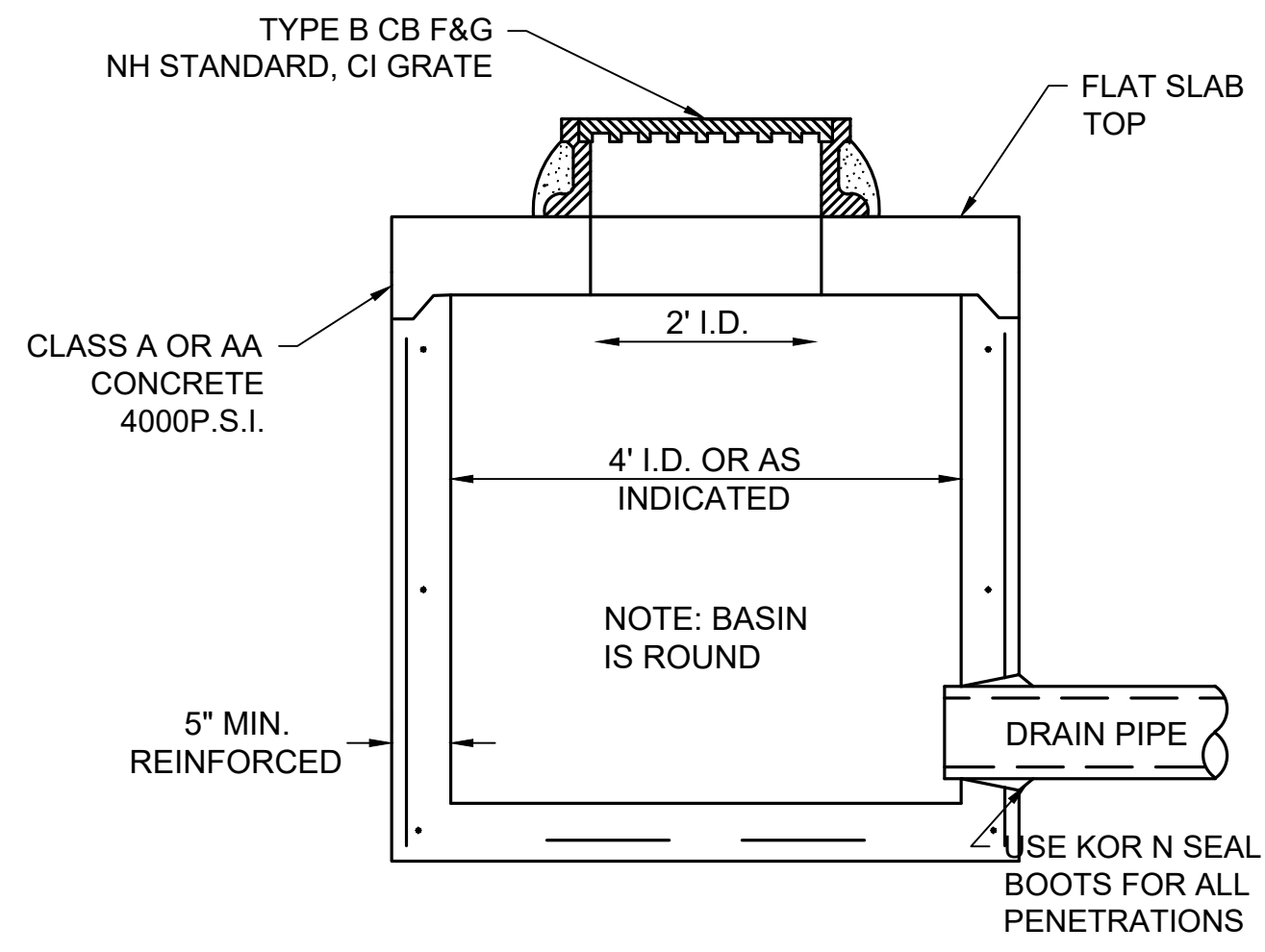
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ITEM NO.	PIPE DIA.	DIMENSIONS				
		A (1" TOL.)	B MAX.	H (1" TOL.)	L (1 1/2" TOL.)	W (2" TOL.)
603.33212	12"	6.5"	10"	6.5"	25"	29"
604.33224	24"	7.5"	18"	6.5"	36"	45"

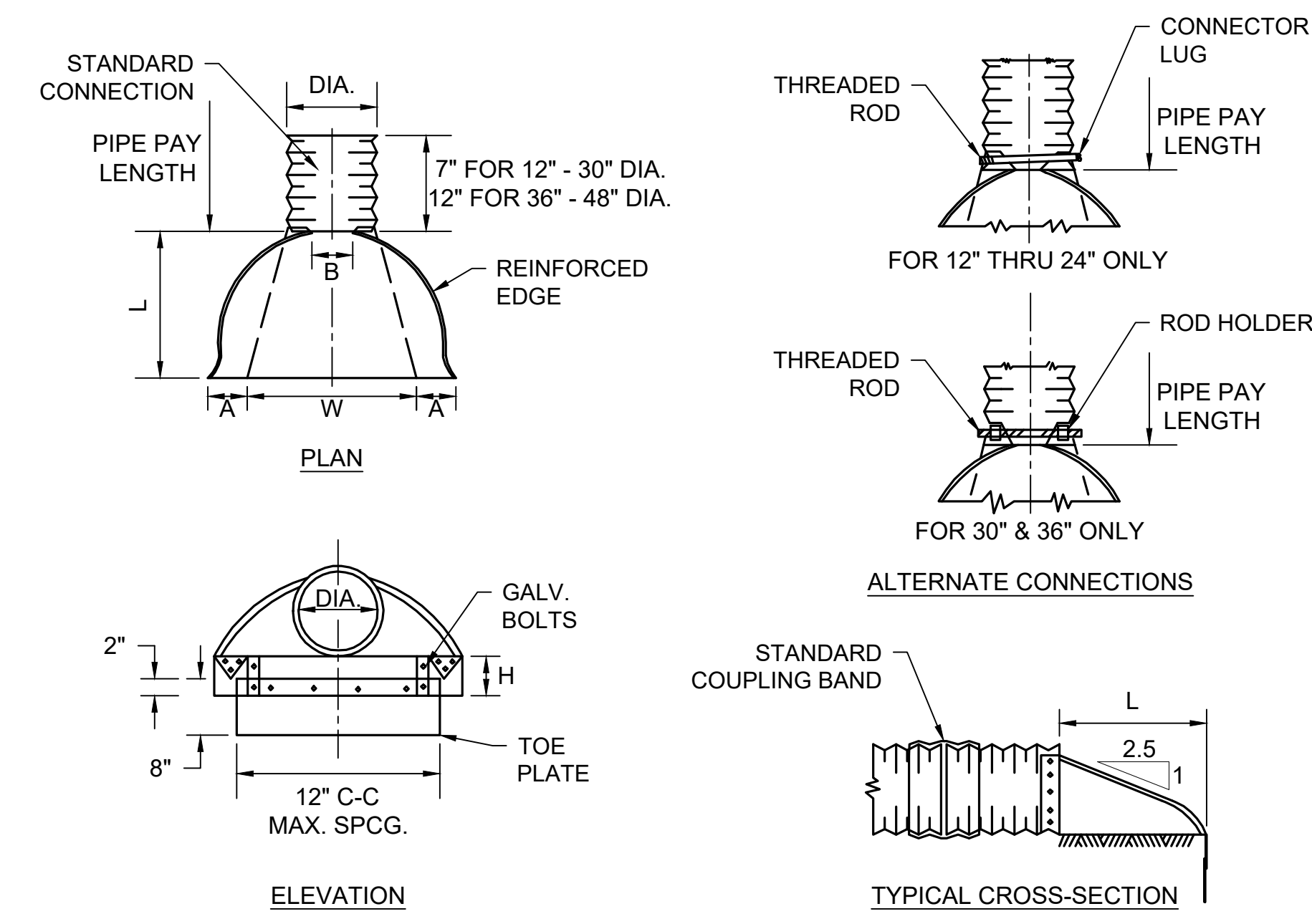


- NOTES:**
1. COAT INTERIOR OF SURFACE WITH APPROVED SALT GUARD FOR ALL STRUCTURES HAVING INVERTS LESS THAN ELEVATION 9' ABOVE SEA LEVEL
 2. ENTIRE STRUCTURE SHALL BE CAPABLE OF WITHSTANDING AN H-20 LOAD. DETAILS OF REINFORCEMENT TO BE FURNISHED BY MANUFACTURER

CONCRETE CATCH BASIN (PRECAST)
 NOT TO SCALE



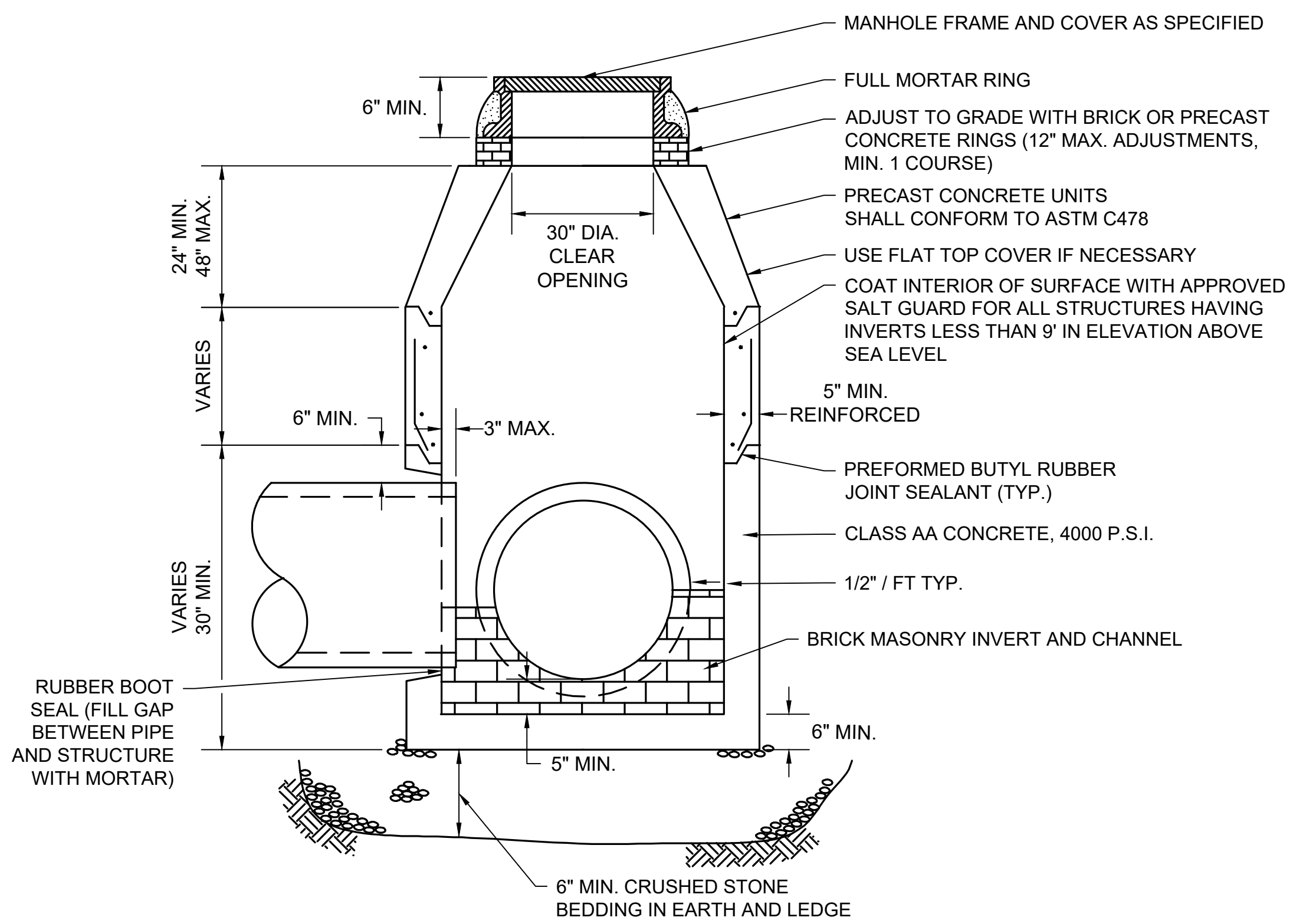
DI CATCH BASIN
 NOT TO SCALE



- NOTES:**
1. END SECTION FOR 12" TO 30" DIA. PIPE IN ONE PIECE, FOR 36" TO 48" DIA PIPE TO BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTER LINE.
 2. CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE SAME THICKNESS AS END SECTION AND EACH TO BE GALVANIZED.

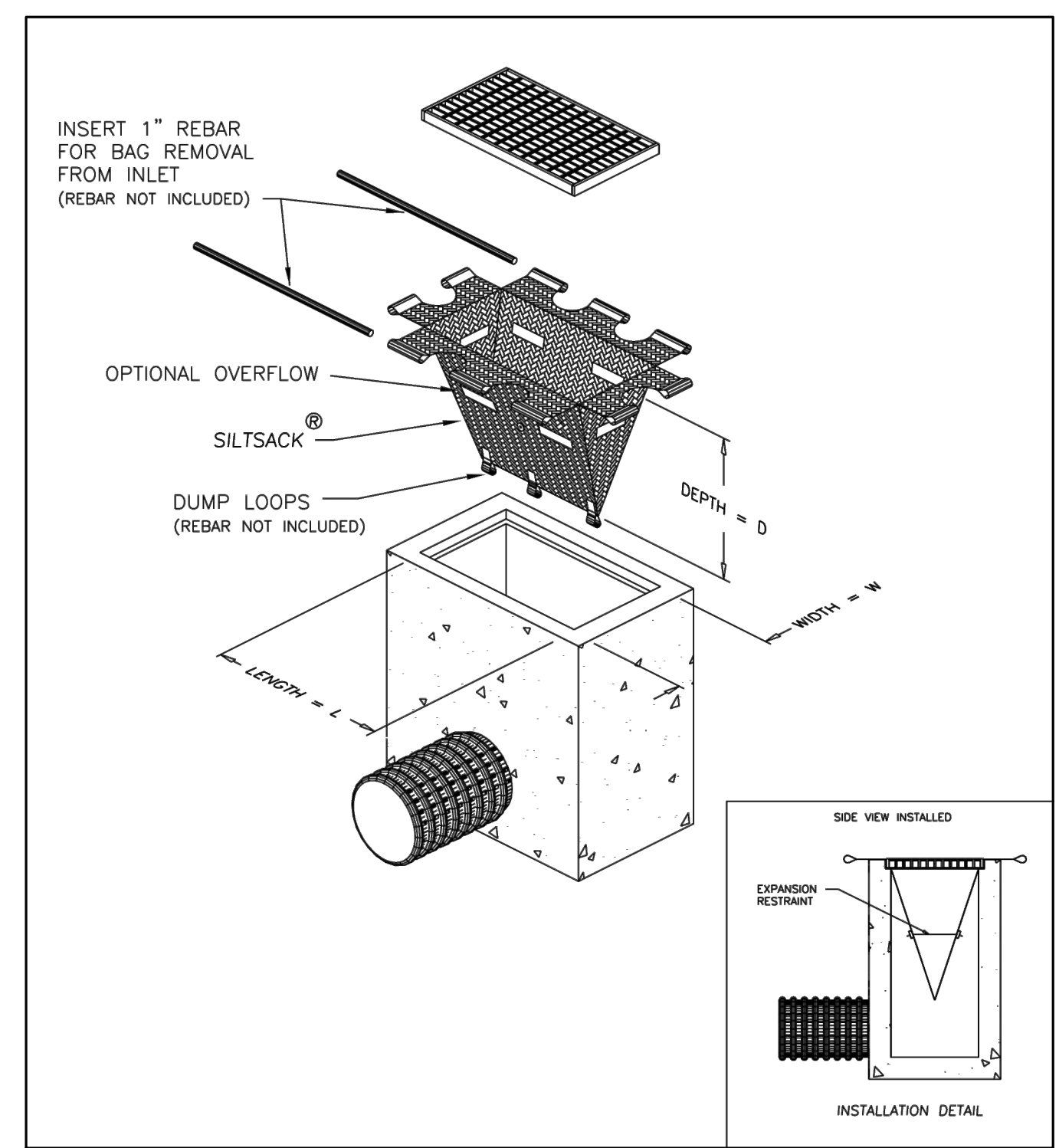
END SECTION FOR PLASTIC PIPE

NOT TO SCALE

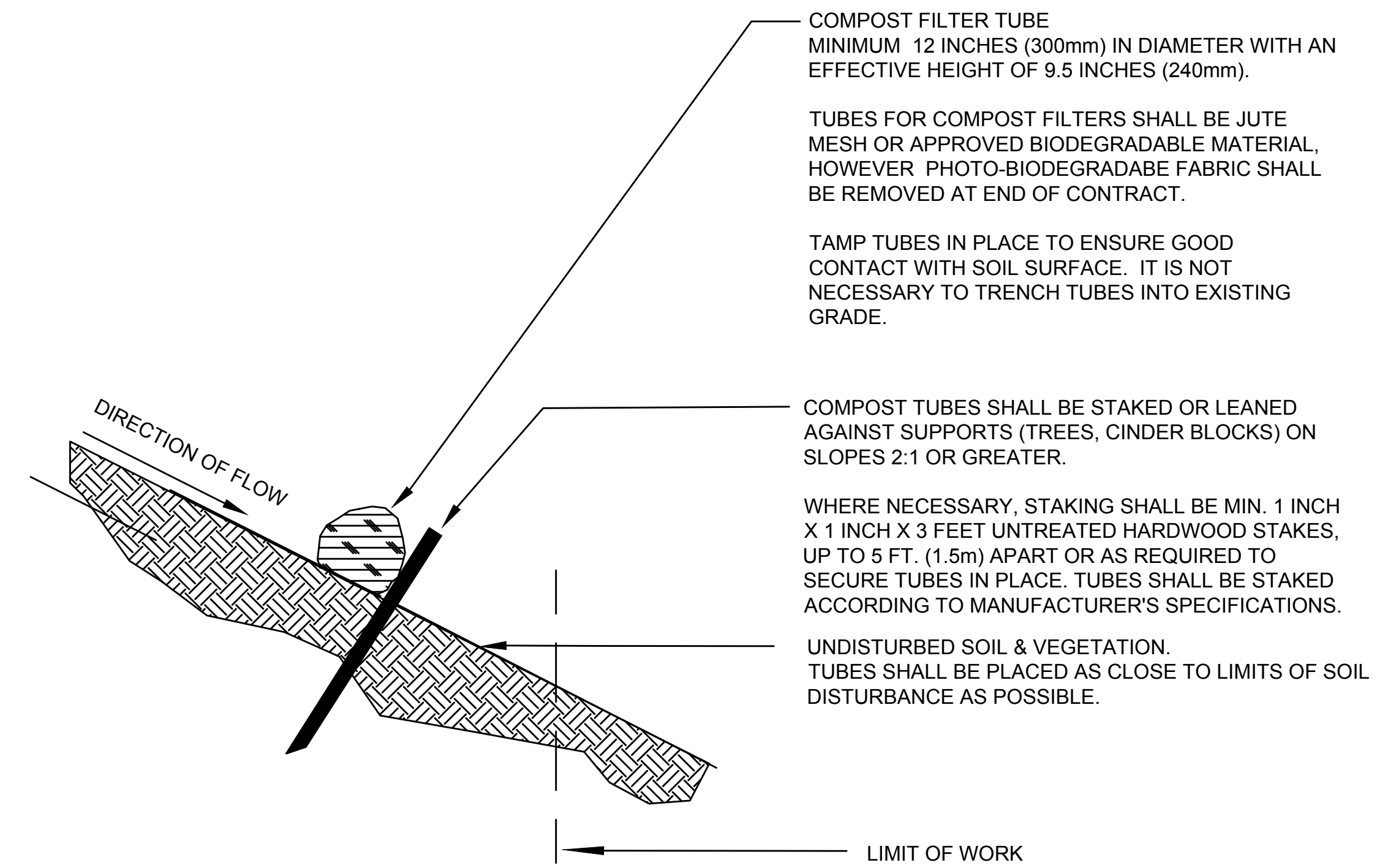


TYPICAL DRAINAGE MANHOLE
 NOT TO SCALE

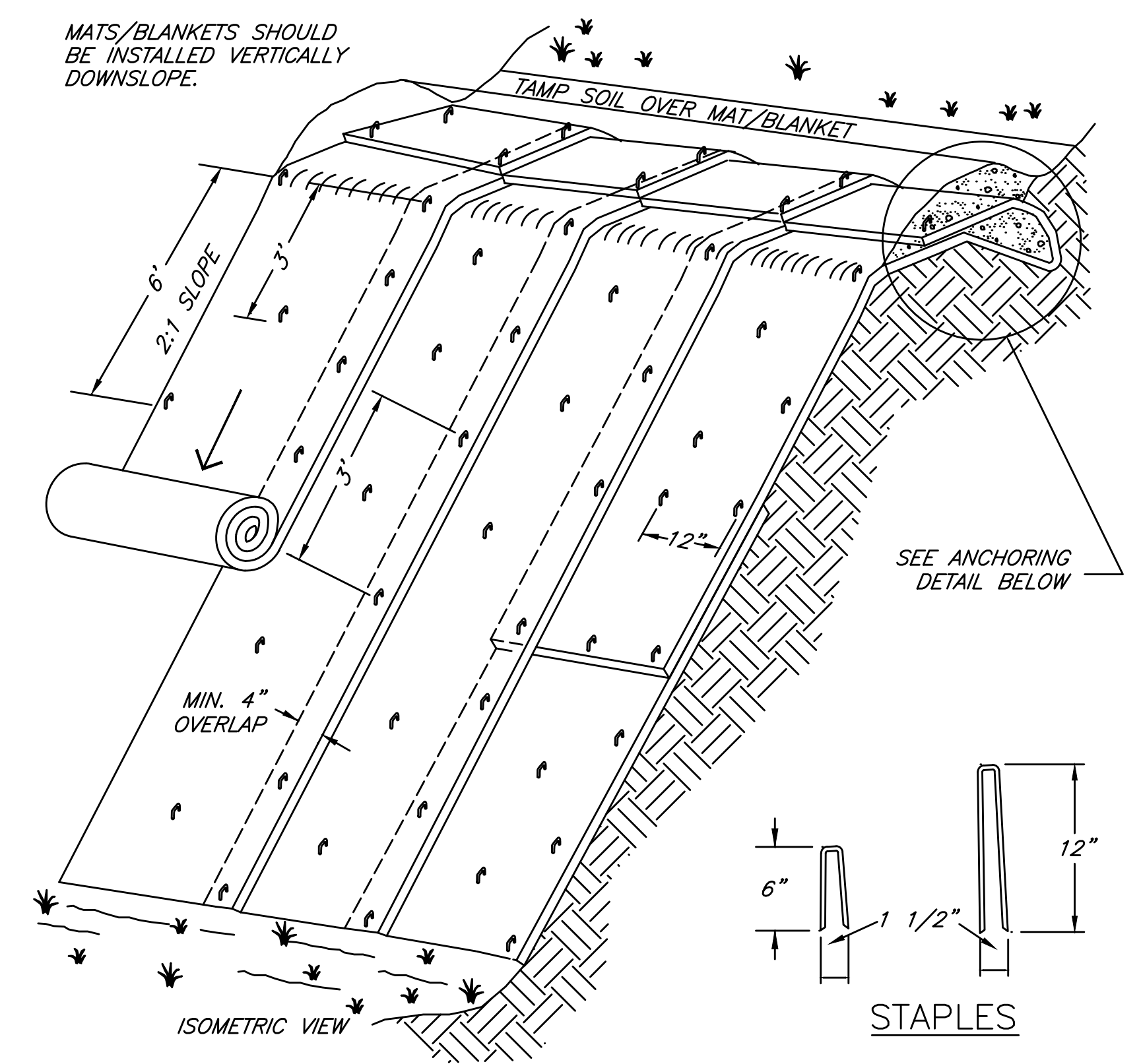
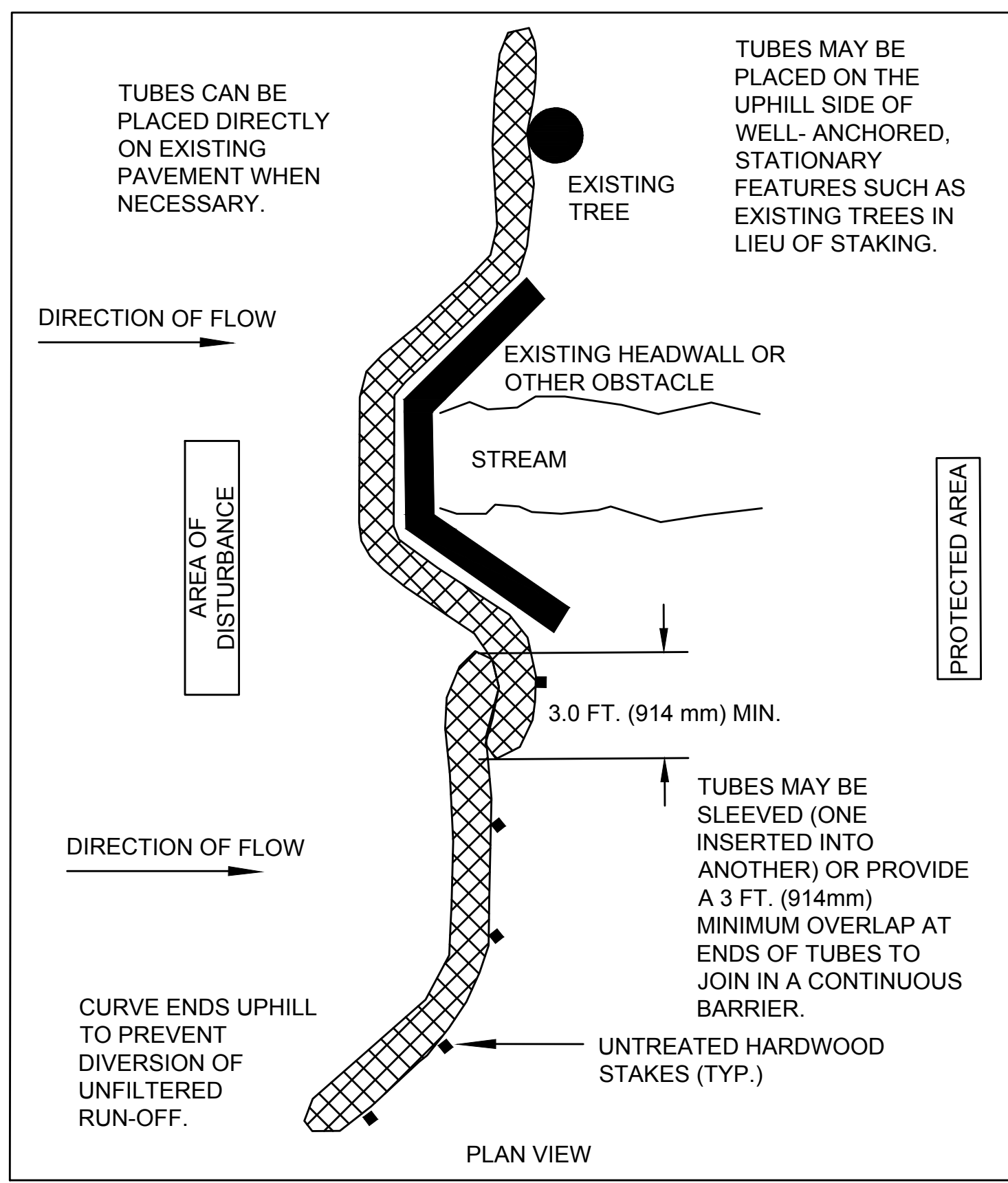
- NOTES:**
1. BARRELS AND TOP SECTIONS SHALL BE PRECAST REINFORCED CONCRETE.
 2. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
 3. INVERTS AND SHELVES: MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE INVERT. INVERT BRICKS SHALL BE LAID ON EDGE. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST POSSIBLE TANGENT TO THE CENTERLINE OF THE PIPES. SHELVES SHALL BE CONSTRUCTED TO AN ELEVATION OF 1/2 THE PIPE DIA. AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL.
 4. FRAMES AND COVERS: DRAIN MANHOLE FRAMES AND COVERS SHALL DUAL HINGED, ERGO XL FROM EJIW - 41421025L01. 32" HINGED AND GASKETED WITH LOCKING CAM AND BE FABRICATED IN THE USA.
 5. BEDDING: SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C33. STONE SIZE NO. 67.
 - 100% PASSING 1 INCH SCREEN
 - 0-10% PASSING #4 SIEVE
 - 90-100% PASSING 3/4 INCH SCREEN
 - 0-5% PASSING #8 SIEVE
 - 20-55% PASSING 3/8 INCH SCREEN
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1-1/2 INCH TO 1/2 INCH SHALL BE USED.
 6. SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE IS LESS THAN 5 FEET, A REINFORCED CONCRETE SLAB COVER HAVING AN ECCENTRIC ENTRANCE AND CAPABLE OF SUPPORTING H-20 LOADS MAY BE USED.



SILT SACK
 NOT TO SCALE

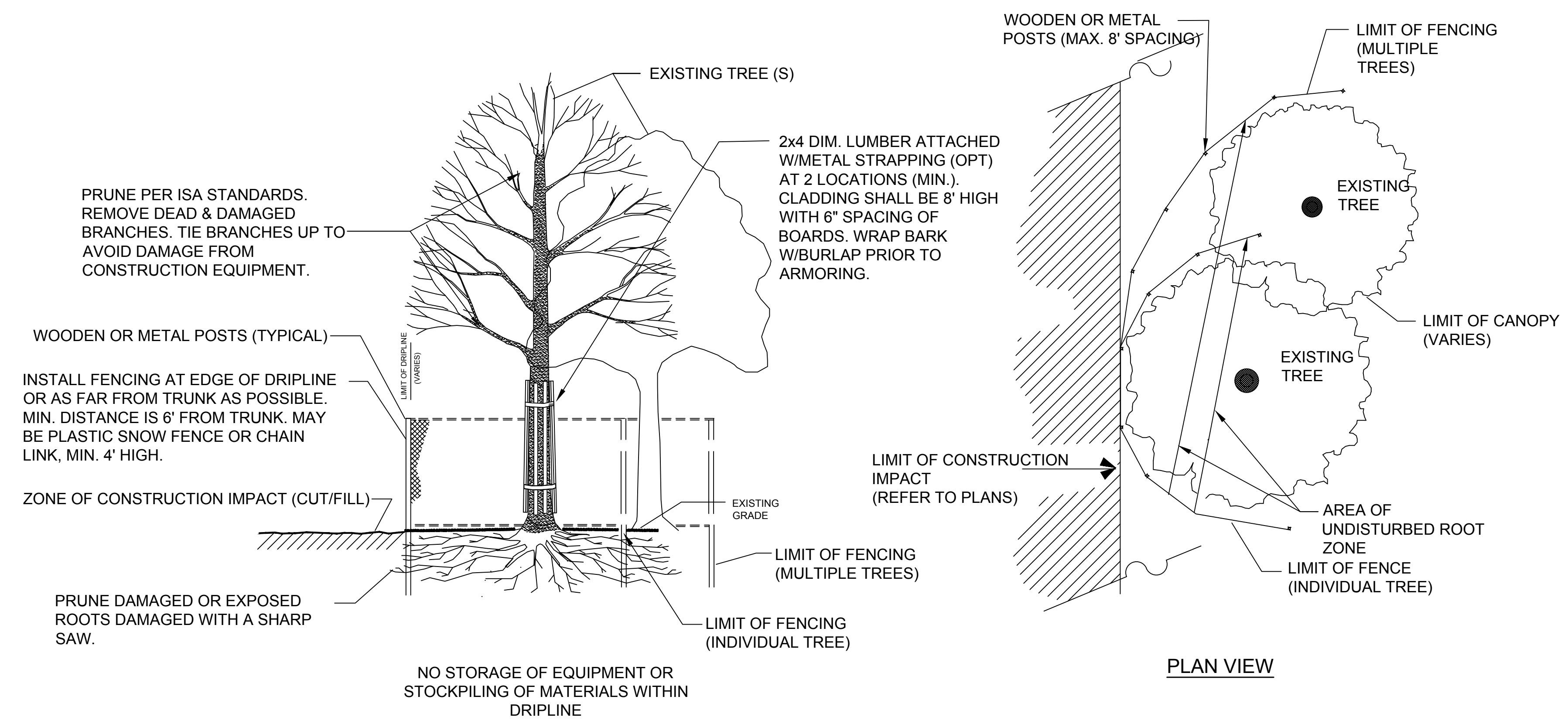


- GENERAL NOTES:
1. PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) FOR SLOPES UP TO 50 FEET (15.24m) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
 2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
 3. TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
 4. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
 5. ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
 6. ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.



TYPICAL SLOPE SOIL STABILIZATION
NOT TO SCALE

COMPOST SOCK FOR PERIMETER BERM
NOT TO SCALE



TREE PROTECTION - EXISTING TREES
NOT TO SCALE



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**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: DPE CHECKED BY: JPJ

**STANDARD
DETAIL SHEETS
EROSION
CONTROL
DETAILS**

SCALE: N.T.S.
2015086.00



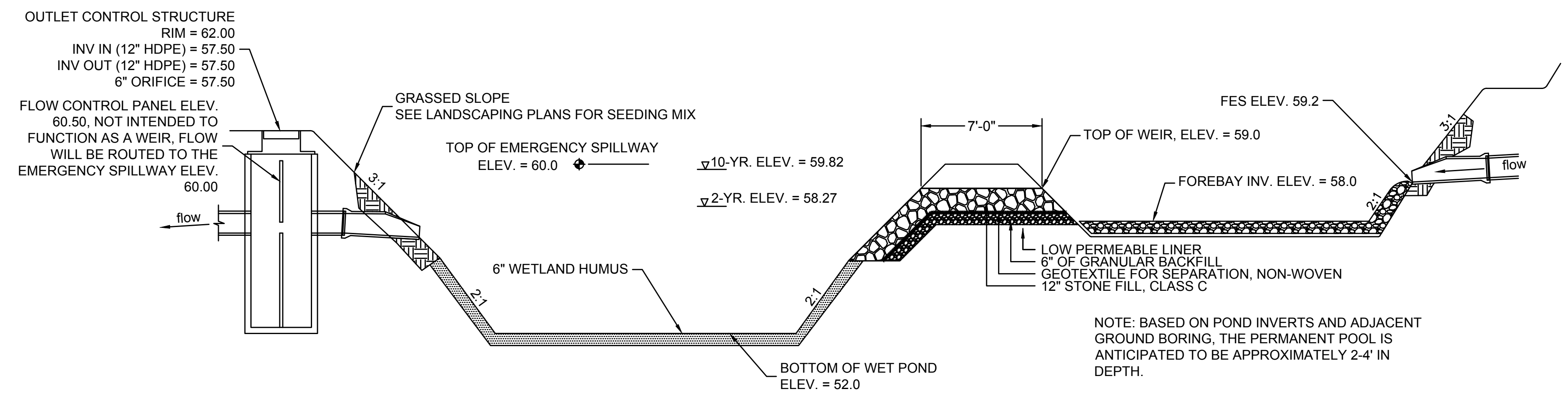
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 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

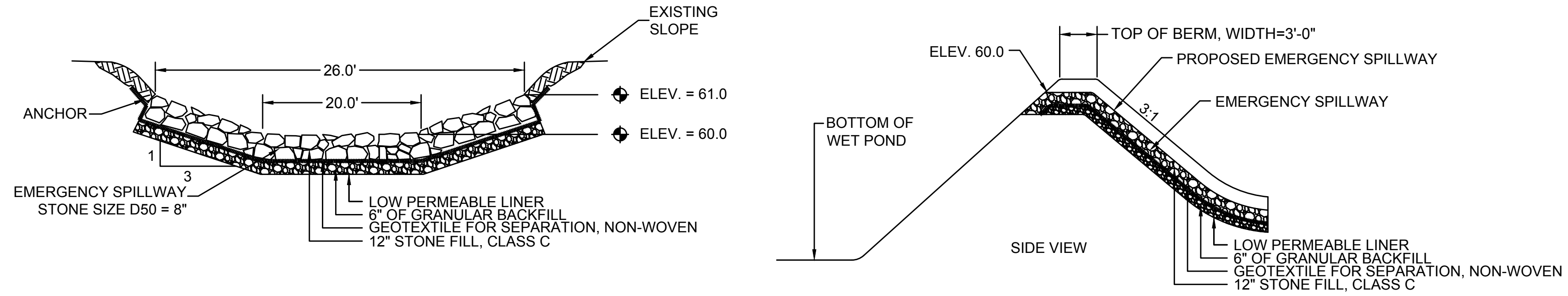
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	NO. REVISION	DATE
1/18/2018		
DRAWN/DESIGN BY	CHECKED BY	
CLS	JPJ	

**STANDARD
 DETAIL SHEETS
 STORMWATER
 DETAILS**

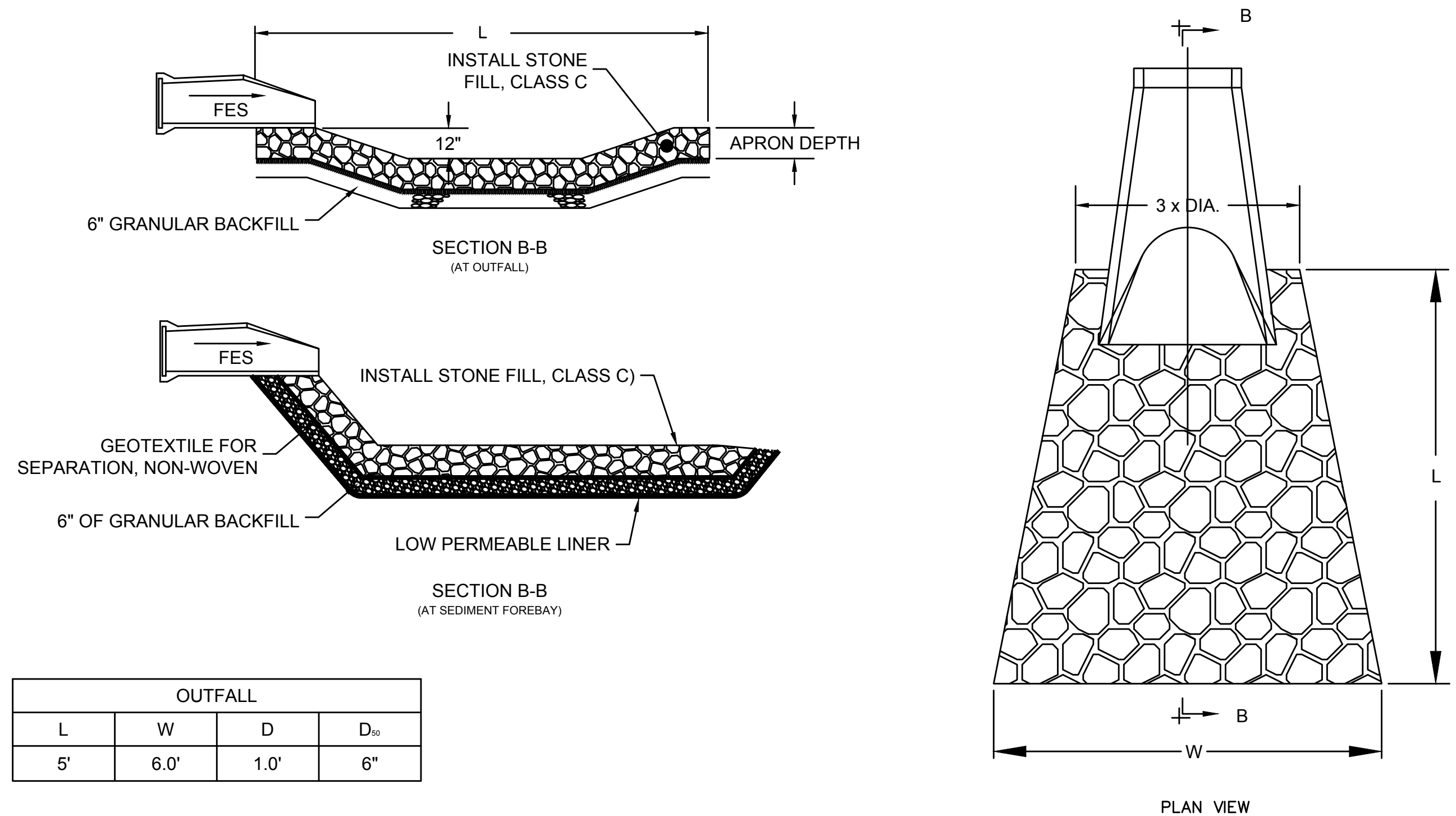
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**TYPICAL POCKET POND CROSS-SECTION
 NTS**

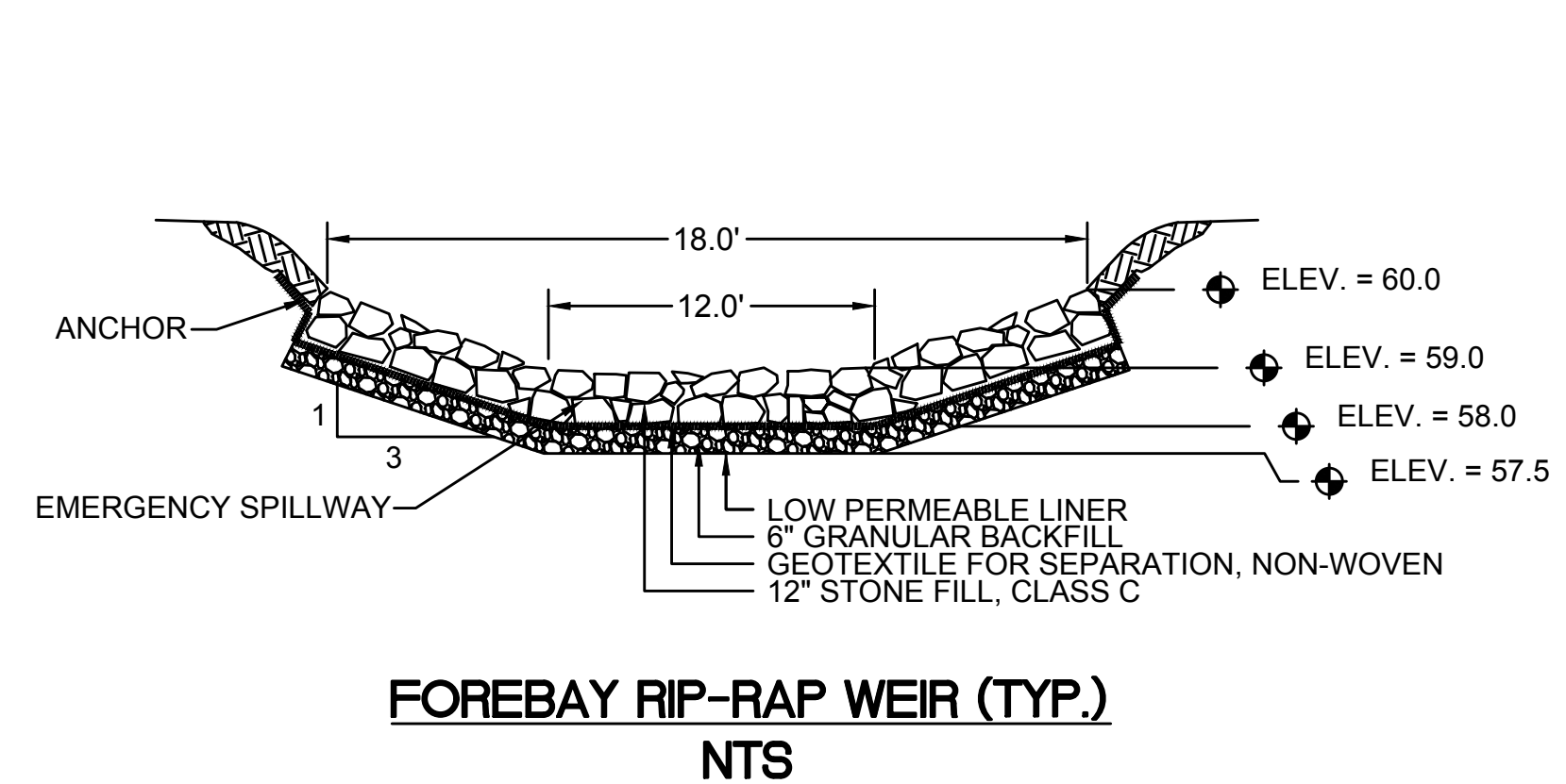


**EMERGENCY SPILLWAY CROSS-SECTION
 NTS**

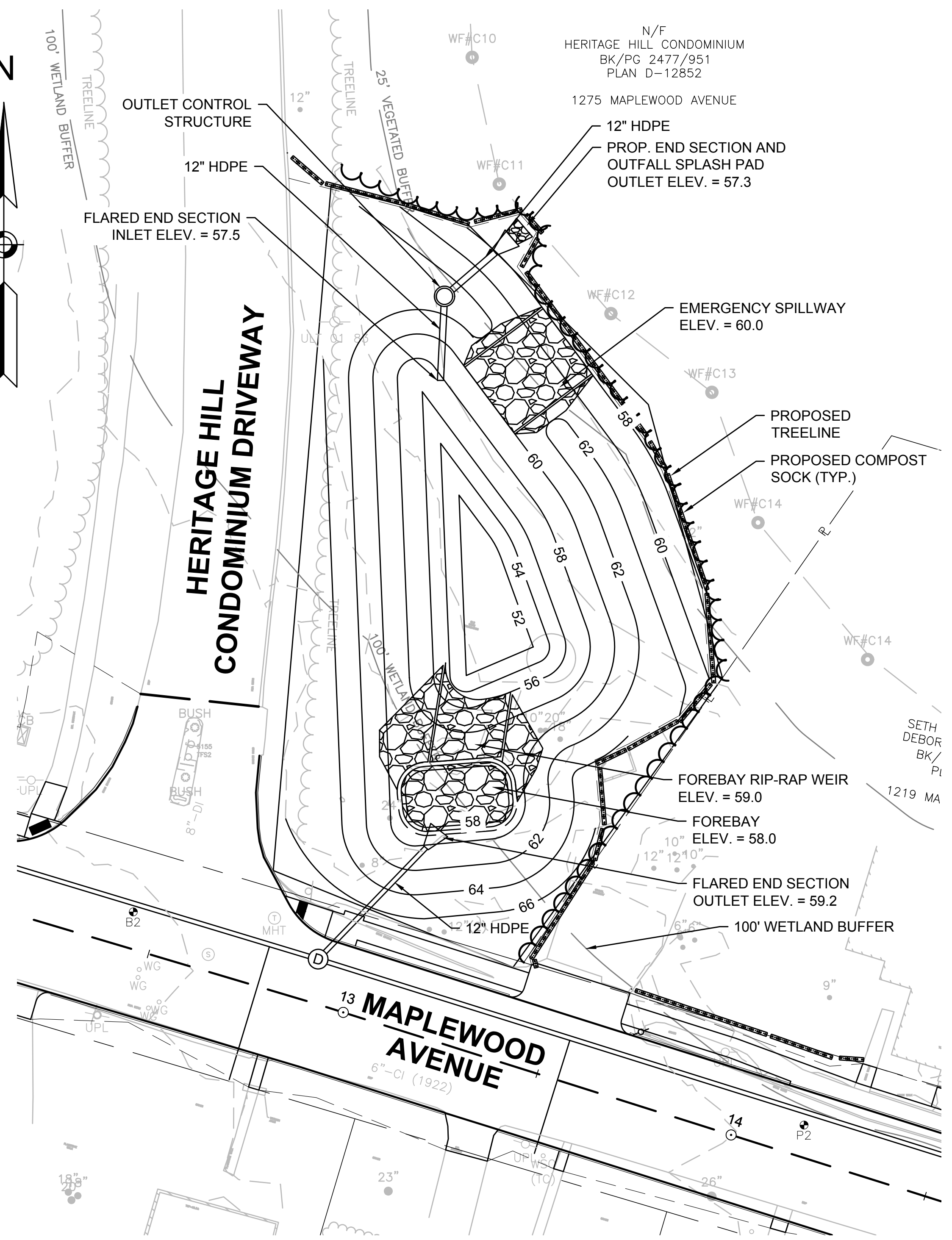


OUTFALL			
L	W	D	D ₅₀
5'	6.0'	1.0'	6"

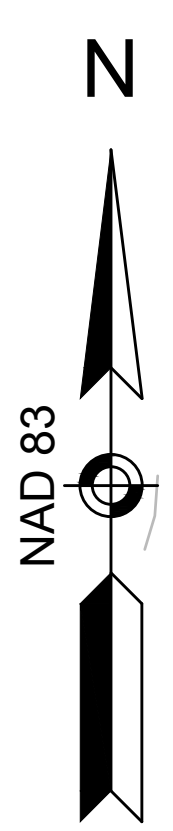
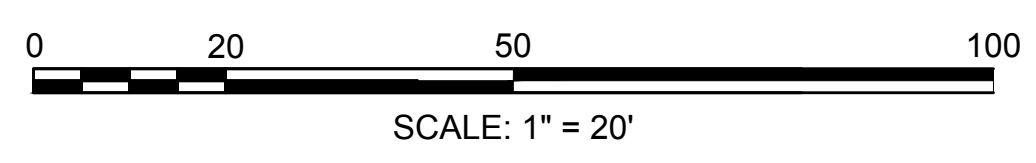
**OUTFALL SPLASH PAD DETAIL
 NTS**



**FOREBAY RIP-RAP WEIR (TYP.)
 NTS**



**POCKET POND PLAN VIEW
 1"=20'**





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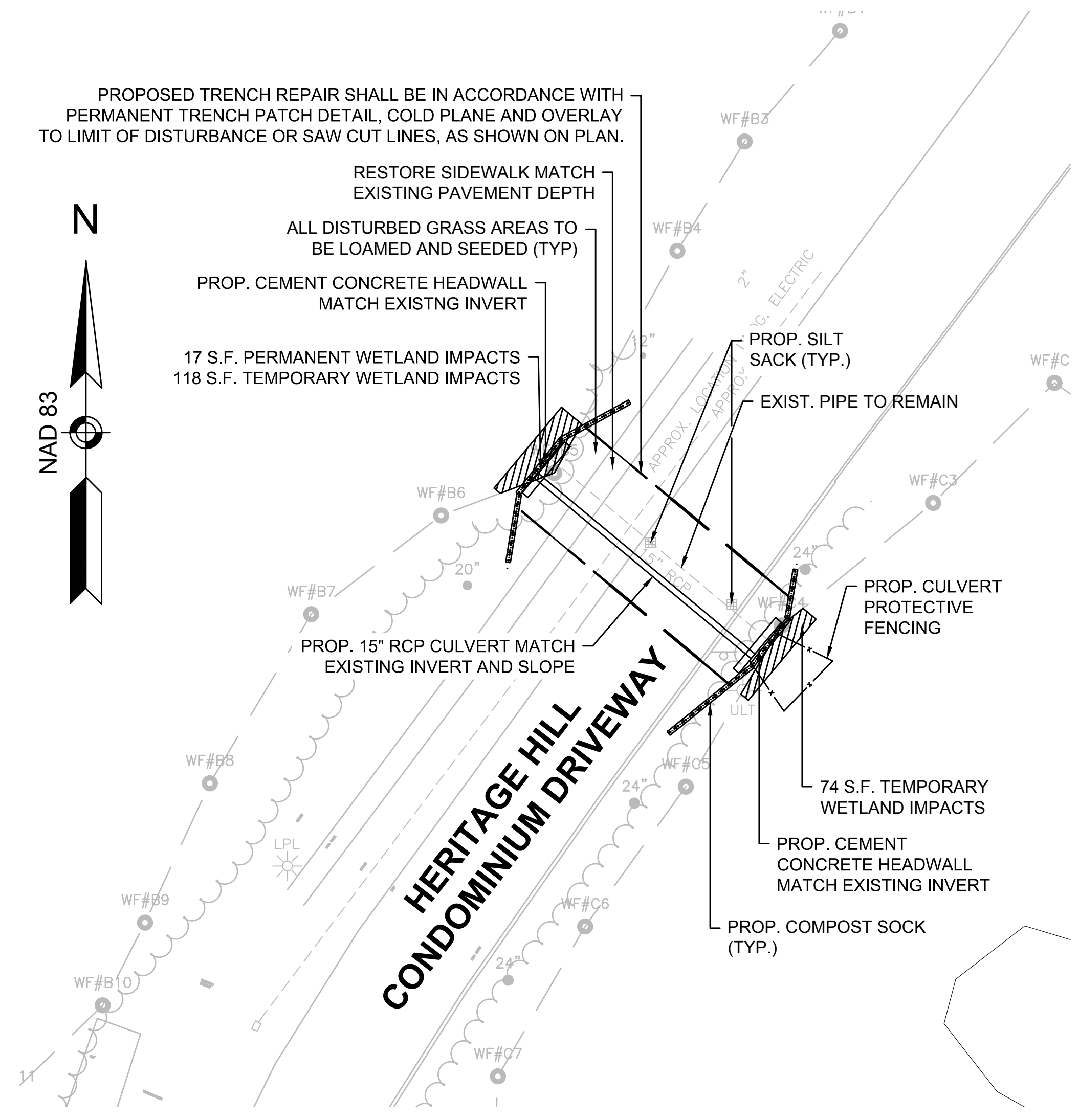
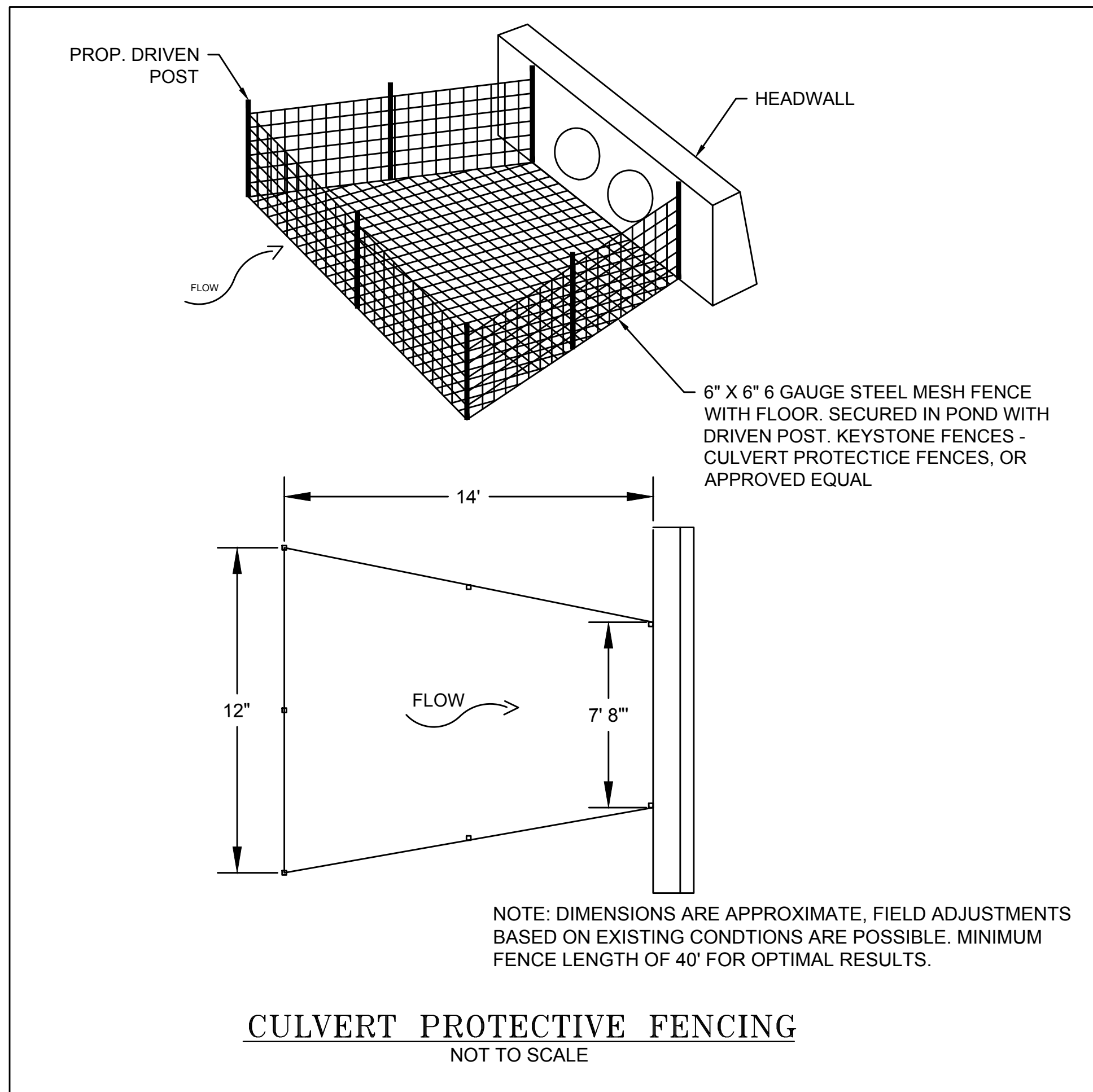
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

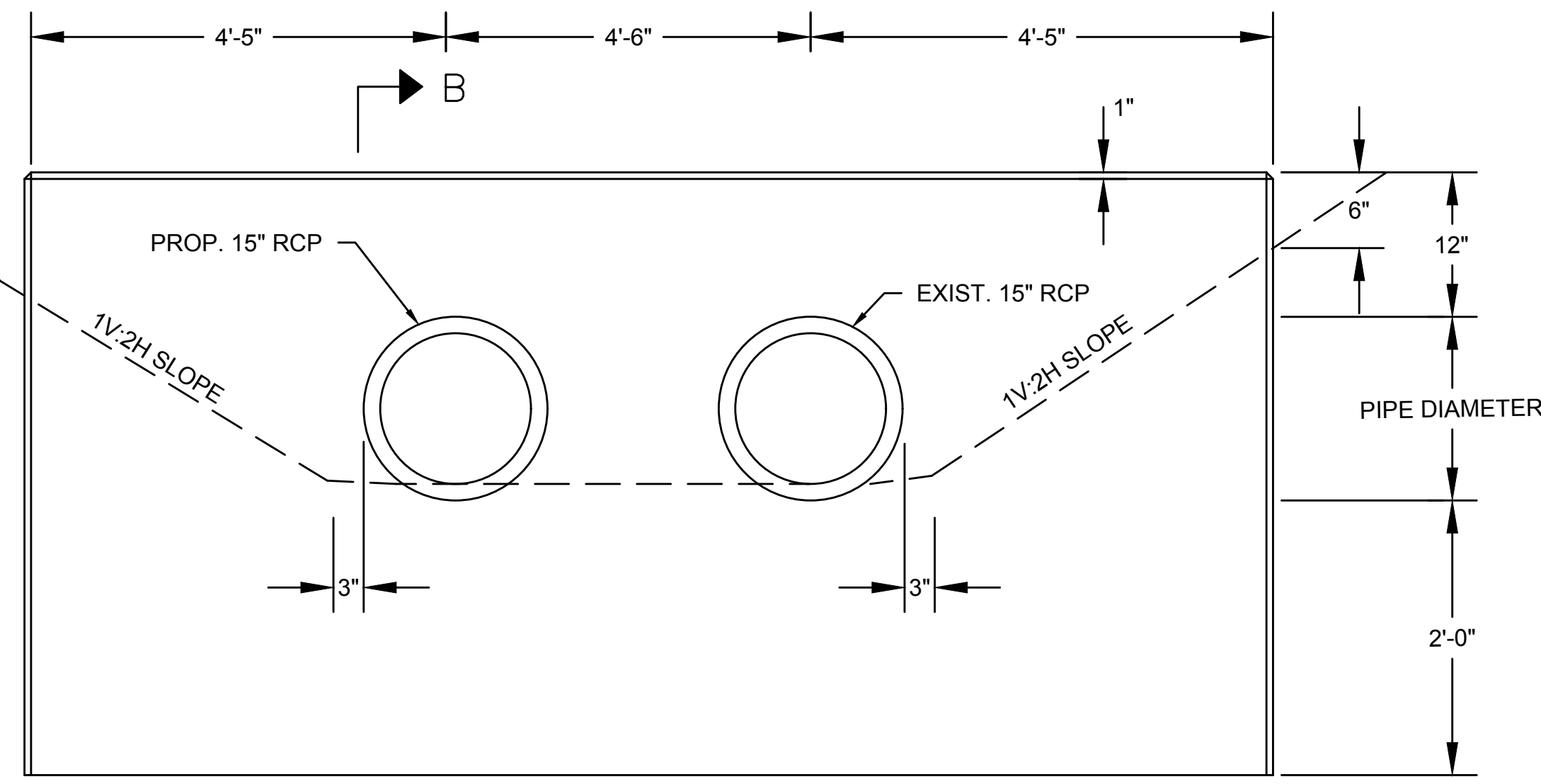
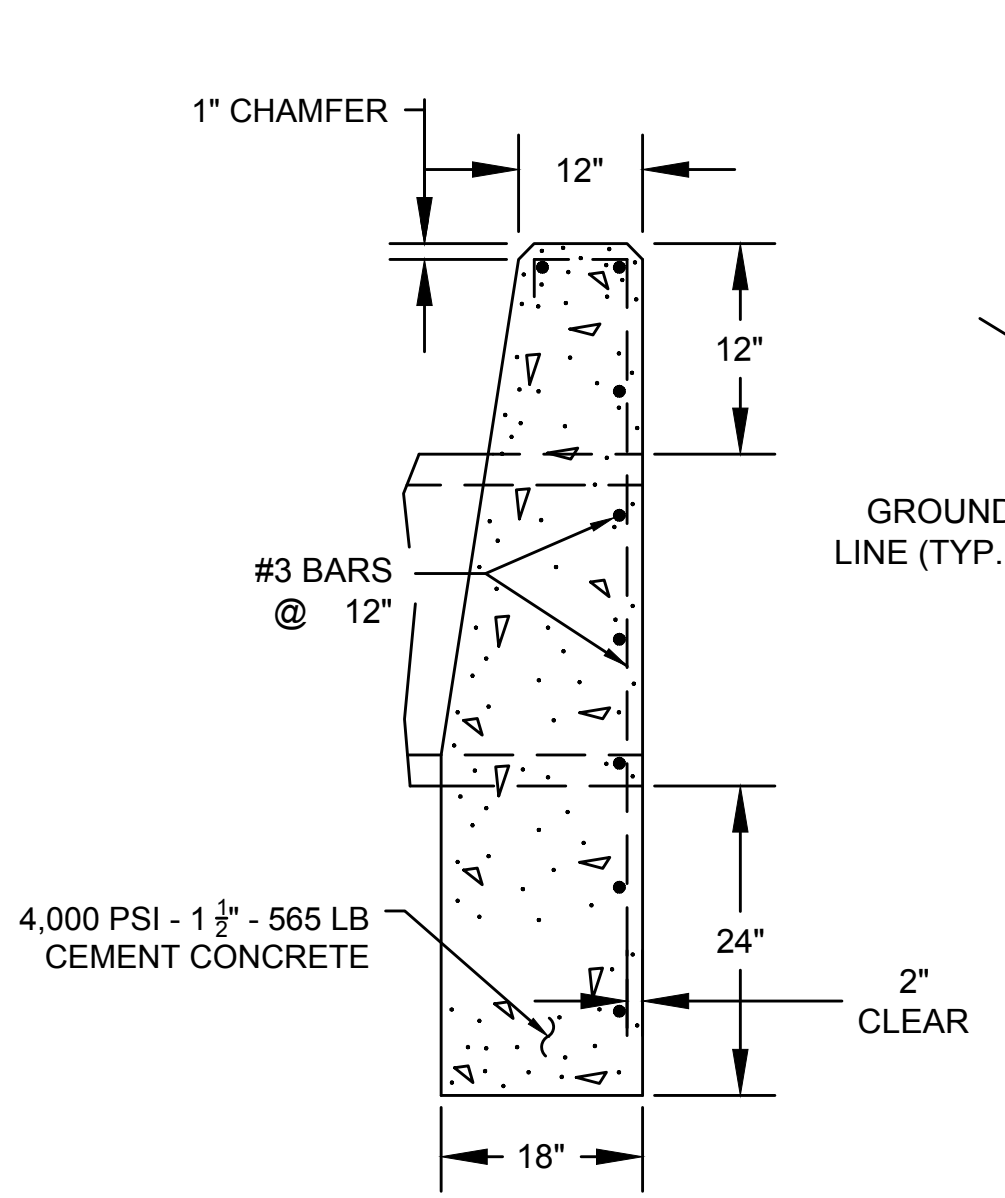
1/18/2018
 DRAWN/DESIGN BY: CLS
 CHECKED BY: JPJ

**STANDARD
 DETAIL SHEETS
 STORMWATER
 DETAILS**

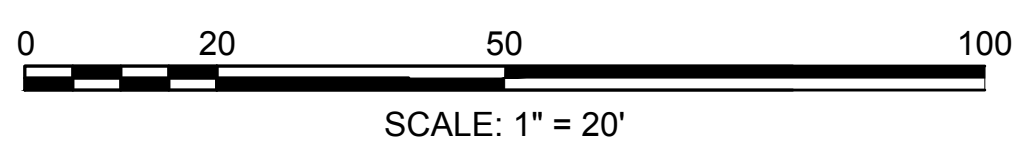
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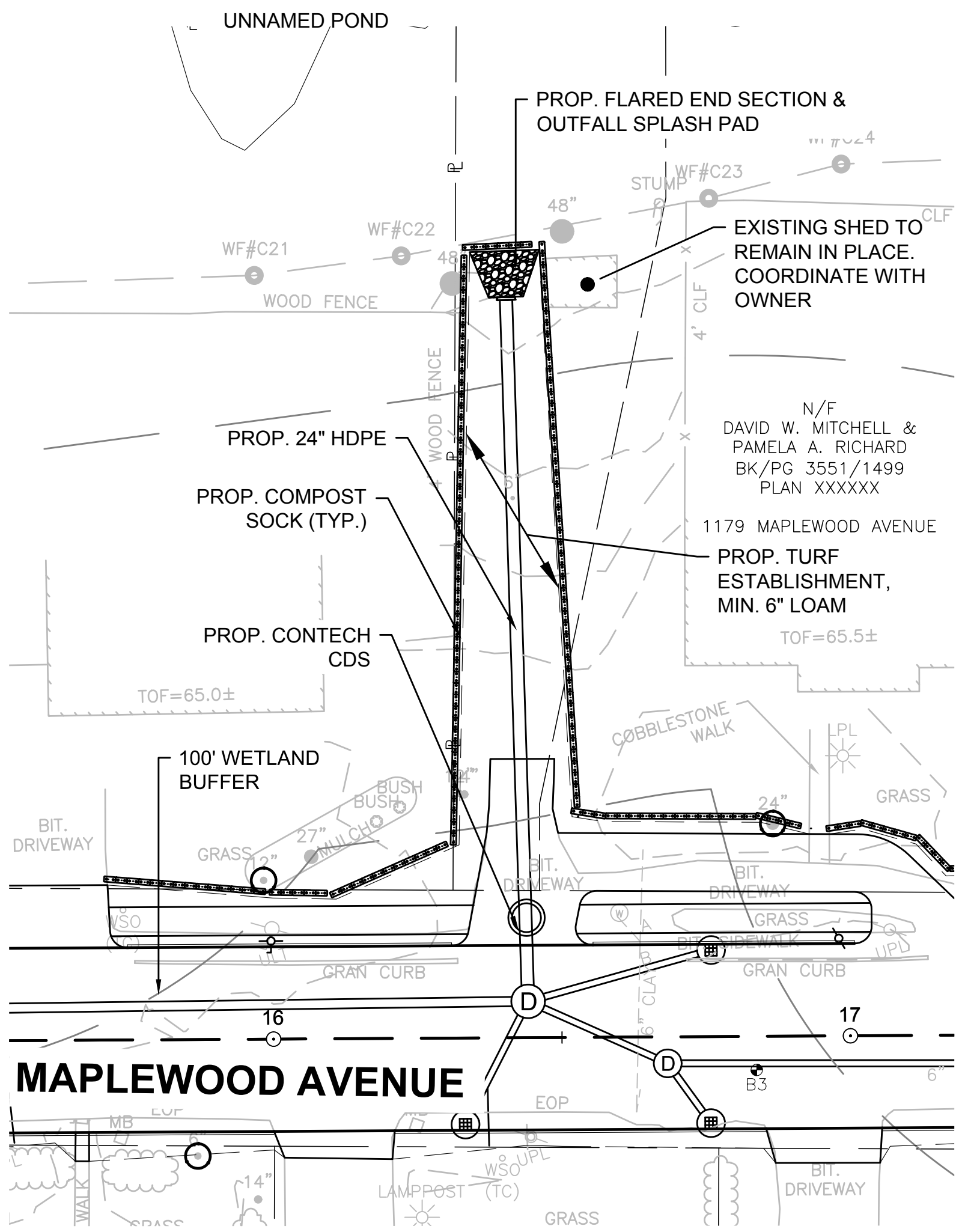
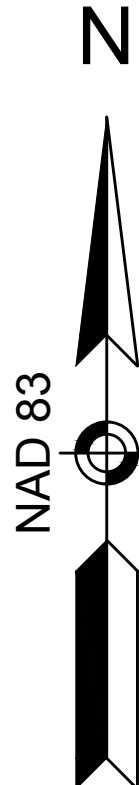


**HERITAGE HILL CONDOMINIUM DRIVEWAY
 PROPOSED 15" RCP**
 1" = 20'

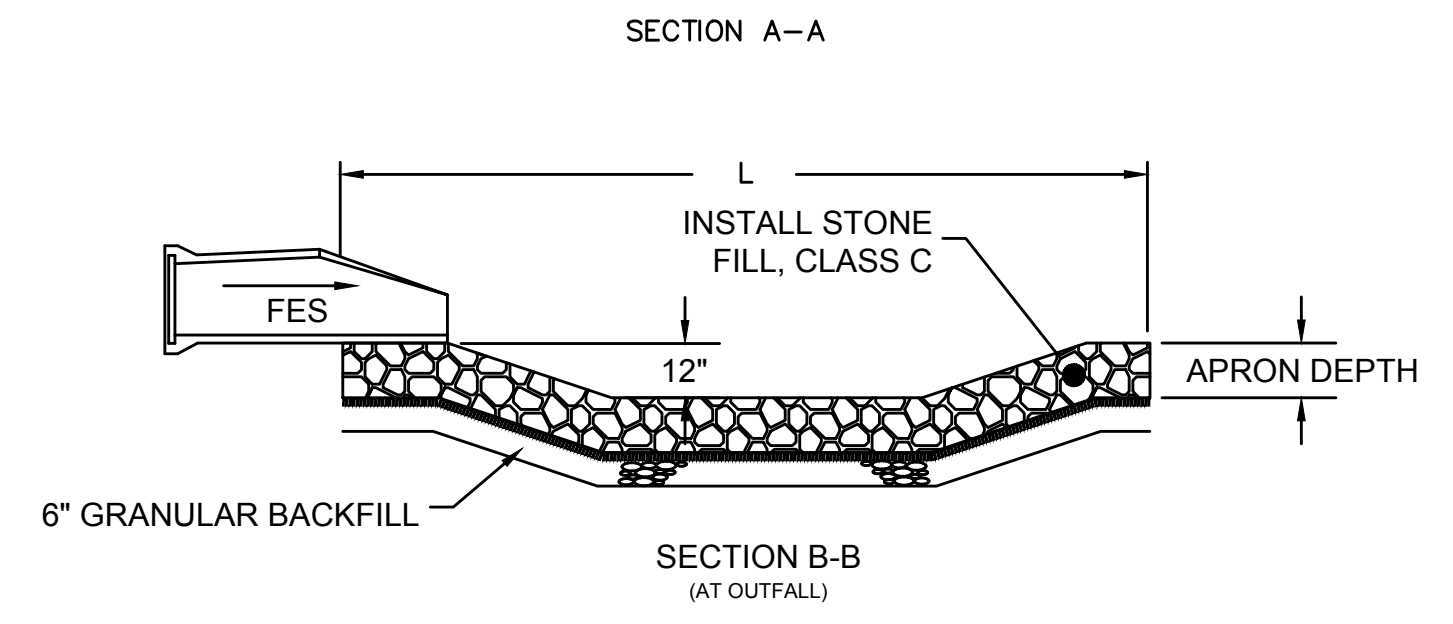
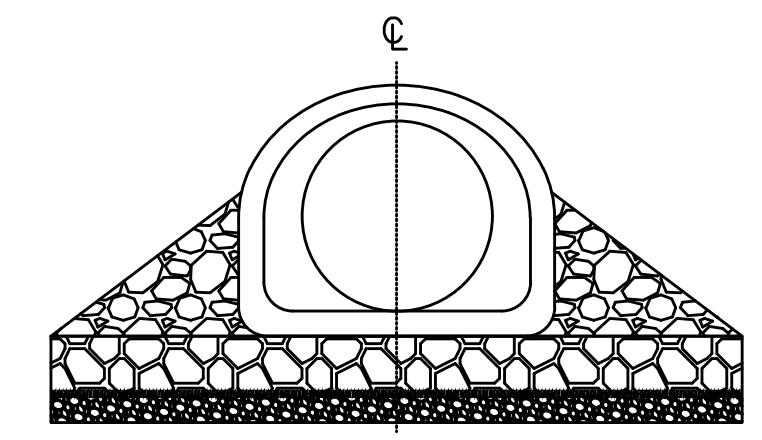


CEMENT CONCRETE HEADWALL - HERITAGE HILL CONDOMINIUM
 N.T.S.



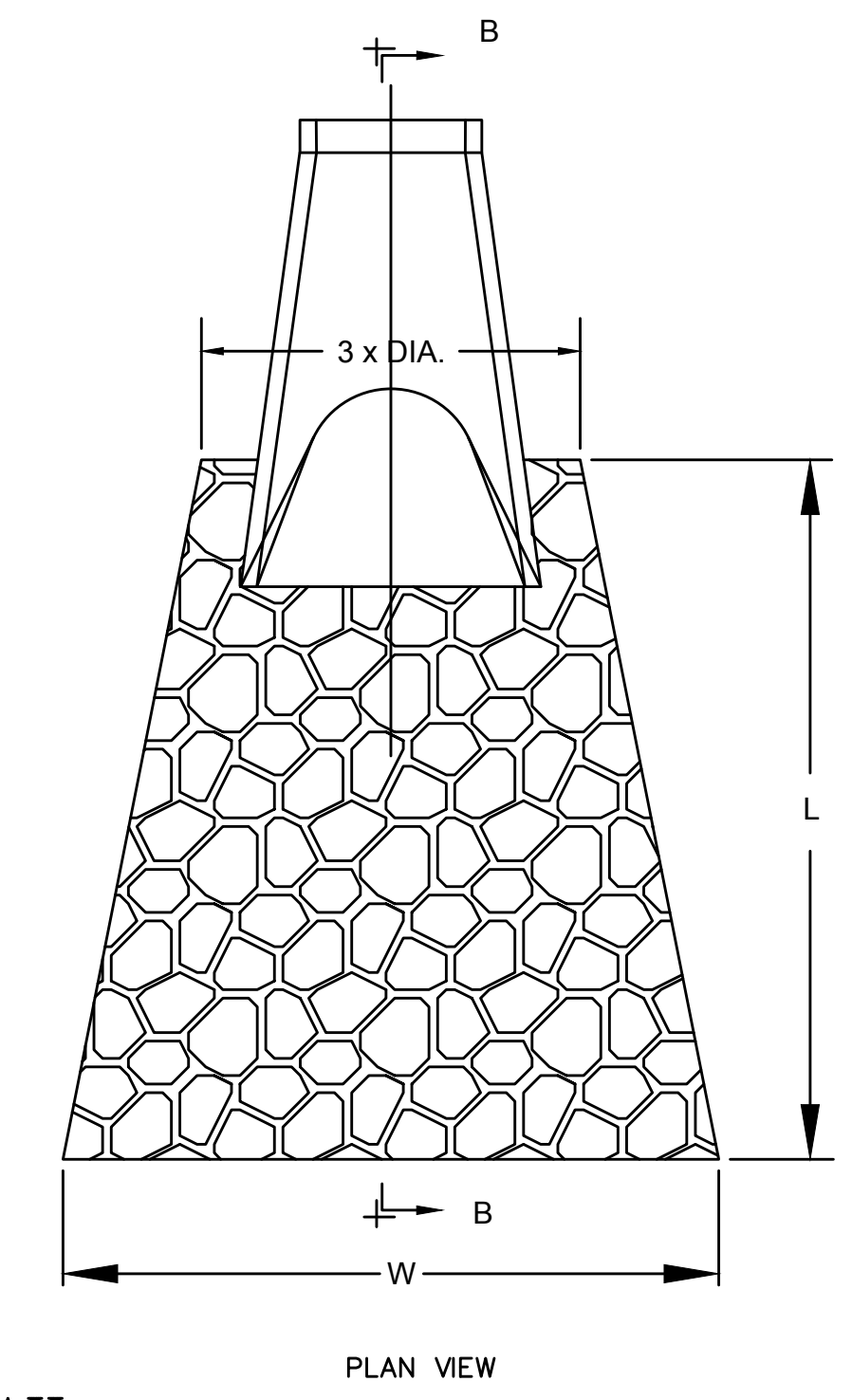


PROPOSED OUTFALL
1" = 20'

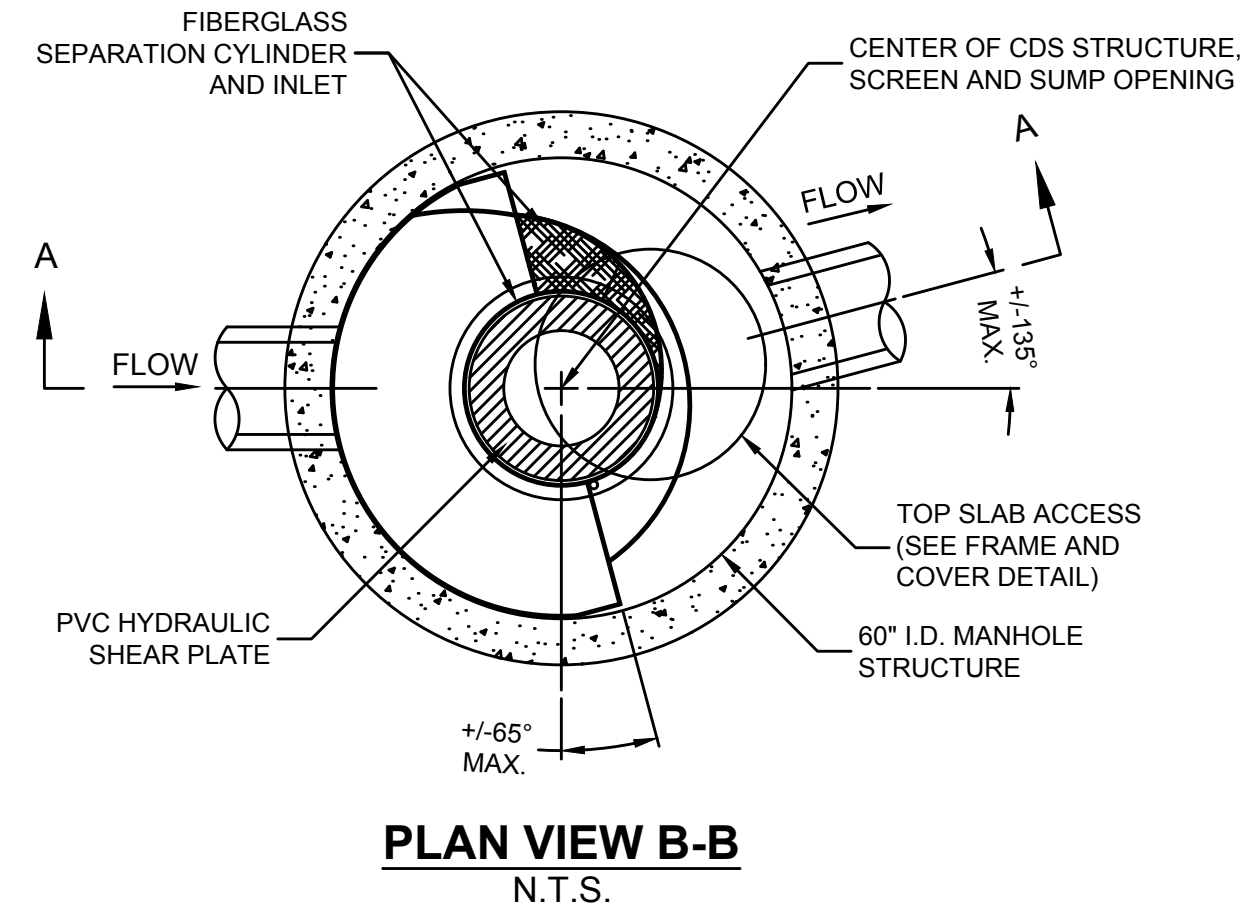


OUTFALL				
L	W	D	D _{in}	
8'	11.33'	2.0'	6"	

OUTFALL SPLASH PAD DETAIL

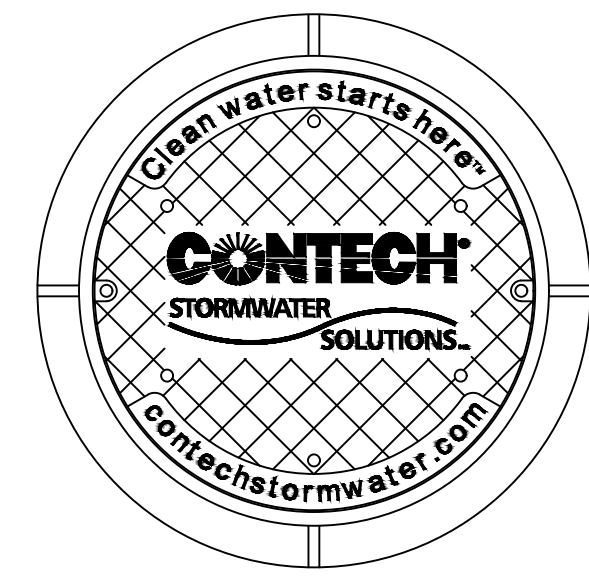


PLAN VIEW



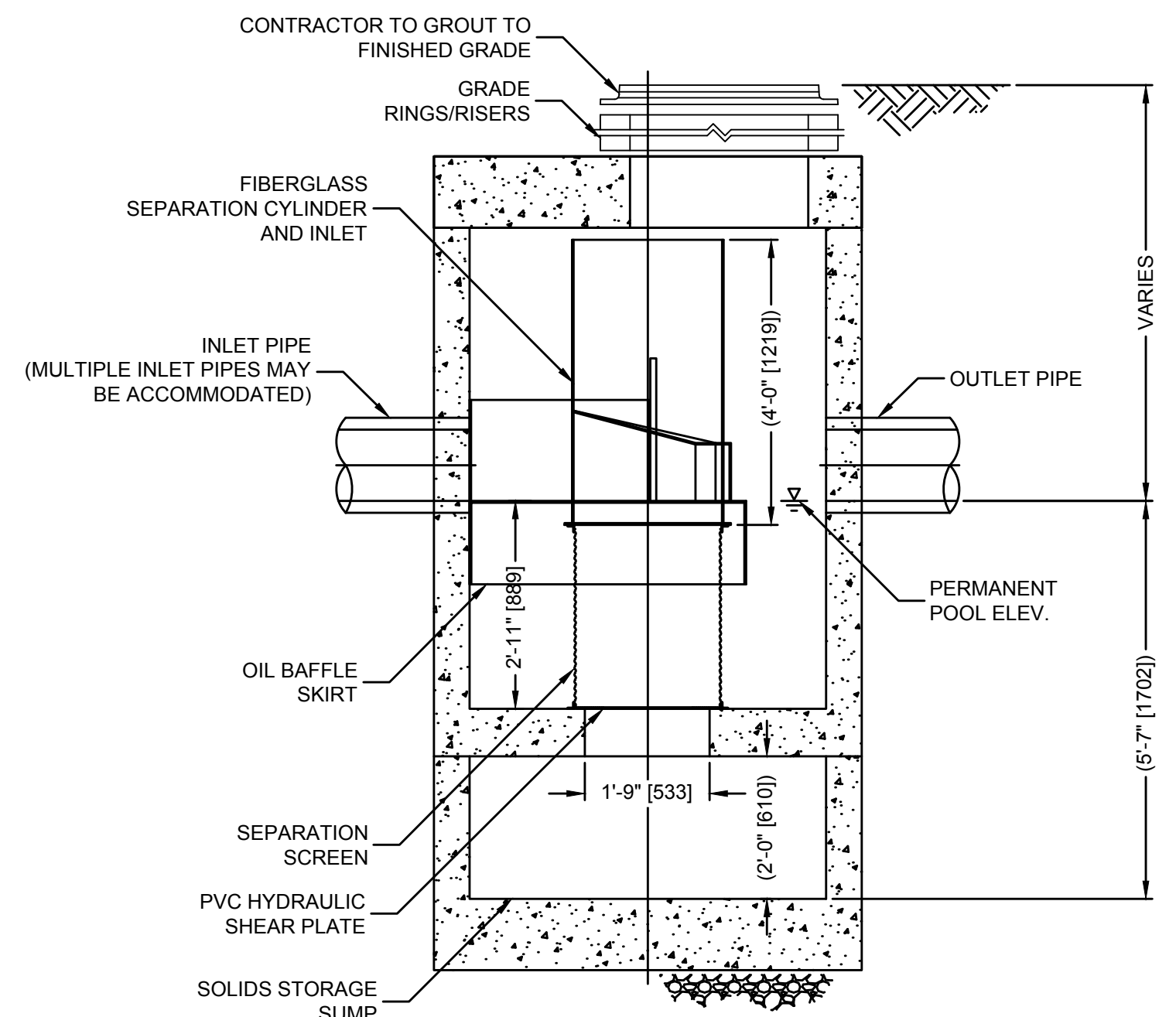
PLAN VIEW B-B
N.T.S.

CDS2025-5-C DESIGN NOTES	
CDS2025-5-C RATED TREATMENT CAPACITY IS 3.2 CFS, OR PER LOCAL REGULATIONS.	
THE STANDARD CDS2025-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.	
CONFIGURATION DESCRIPTION	
GRATED INLET ONLY (NO INLET PIPE)	
GRATED INLET WITH INLET PIPE OR PIPES	
CURB INLET ONLY (NO INLET PIPE)	
CURB INLET WITH INLET PIPE OR PIPES	
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)	
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS	



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	1
WATER QUALITY FLOW RATE (CFS)	3.005
PEAK FLOW RATE (CFS OR L/S)	19.61
RETURN PERIOD OF PEAK FLOW (YRS)	10-YR
SCREEN APERTURE (2400 OR 4700)	MICRON
PIPE DATA:	
INLET PIPE 1	57.50 HDPE 24"
OUTLET PIPE	57.40 HDPE 24"
RIM ELEVATION	63.536
ANTI-FLOTATION BALLAST	
NOTES/SPECIAL REQUIREMENTS: INSTALLATION TO BE IN ACCORDANCE WITH THE TYPICAL DRAINAGE MANHOLE DETAIL.	
* PER ENGINEER OF RECORD	



ELEVATION A-A
N.T.S.

CONTECH CDS DETAIL
N.T.S.

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech-cpi.com
 - CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
 - STRUCTURE SHALL MEET AASHTO H2020 AND CASTINGS SHALL MEET H2020 (AASHTO M 206) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
 - PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- INSTALLATION NOTES**
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



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IMPROVEMENTS TO MAPLEWOOD AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH

REVISIONS		
NO.	REVISION	DATE

1/18/2018
DRAWN/DESIGN BY: CLS
CHECKED BY: JPJ

STANDARD DETAIL SHEETS
STORMWATER DETAILS

SCALE: AS NOTED
2015086.00
88 OF 184



SCALE: 1" = 20'



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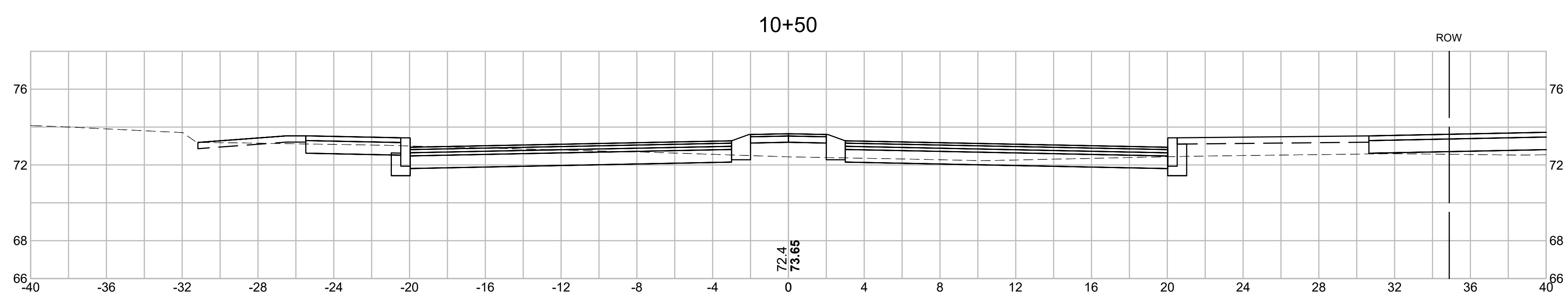
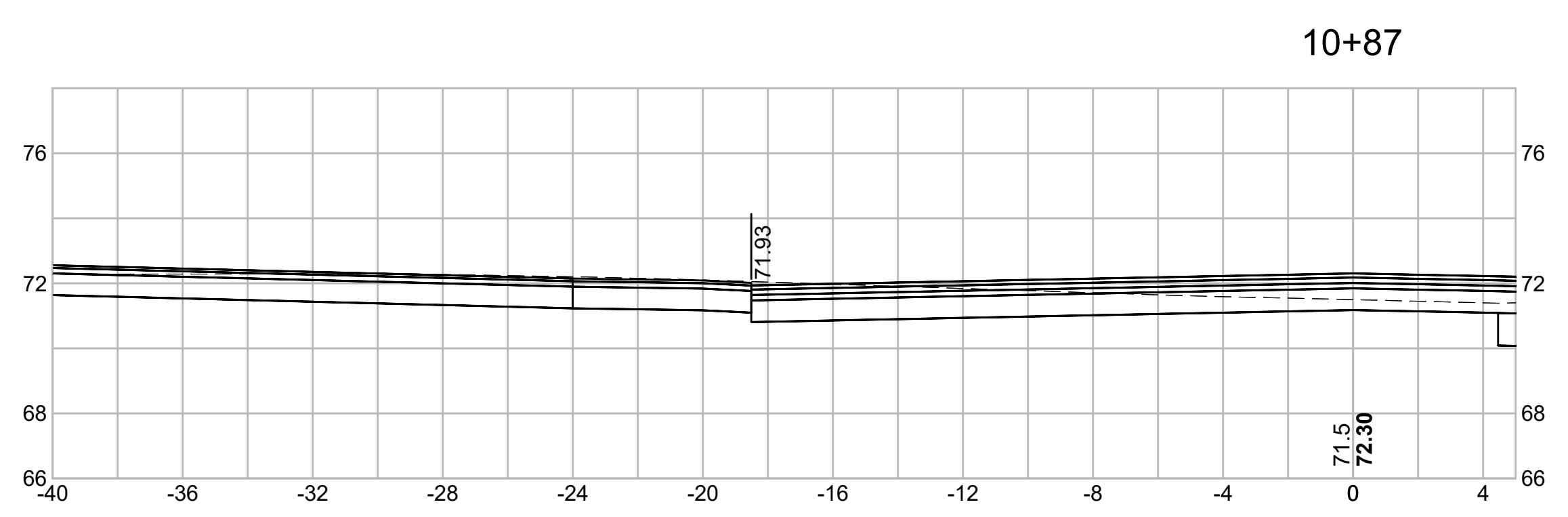
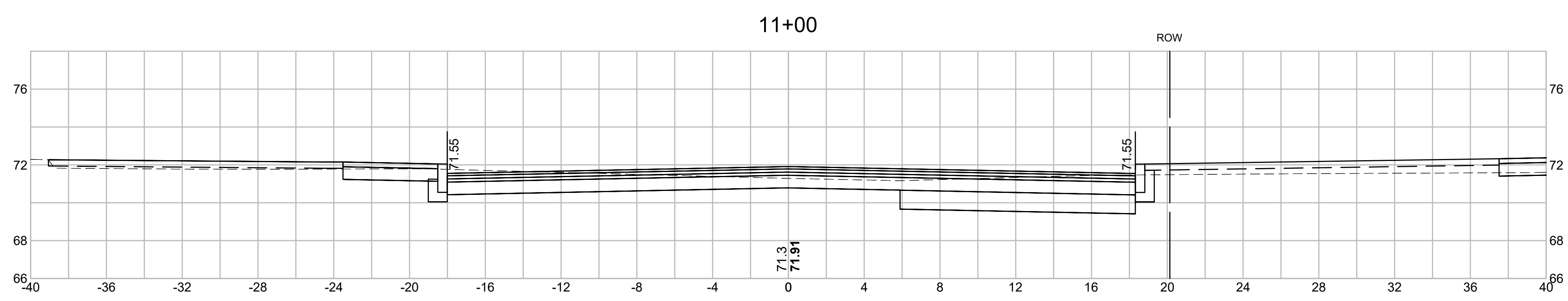
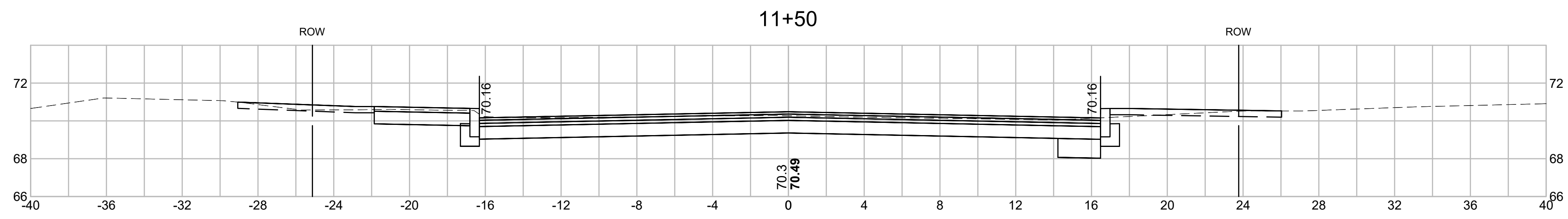
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00
 89 OF 184





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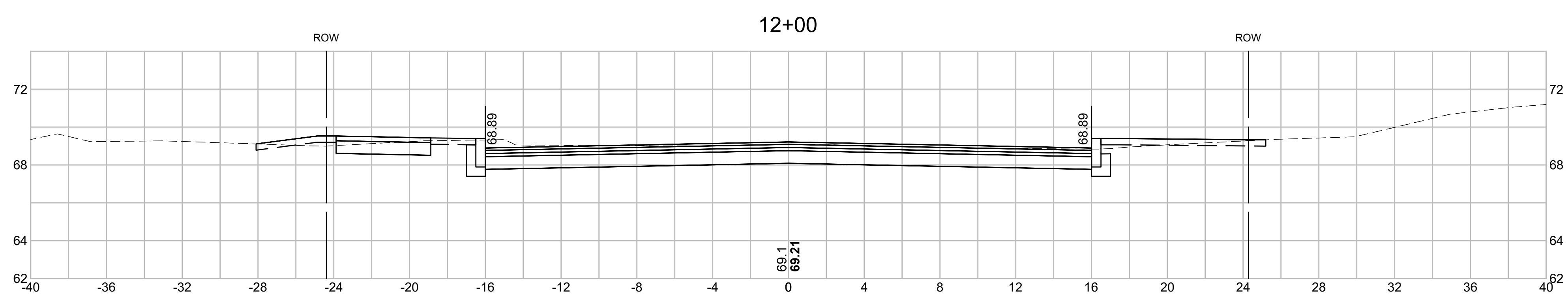
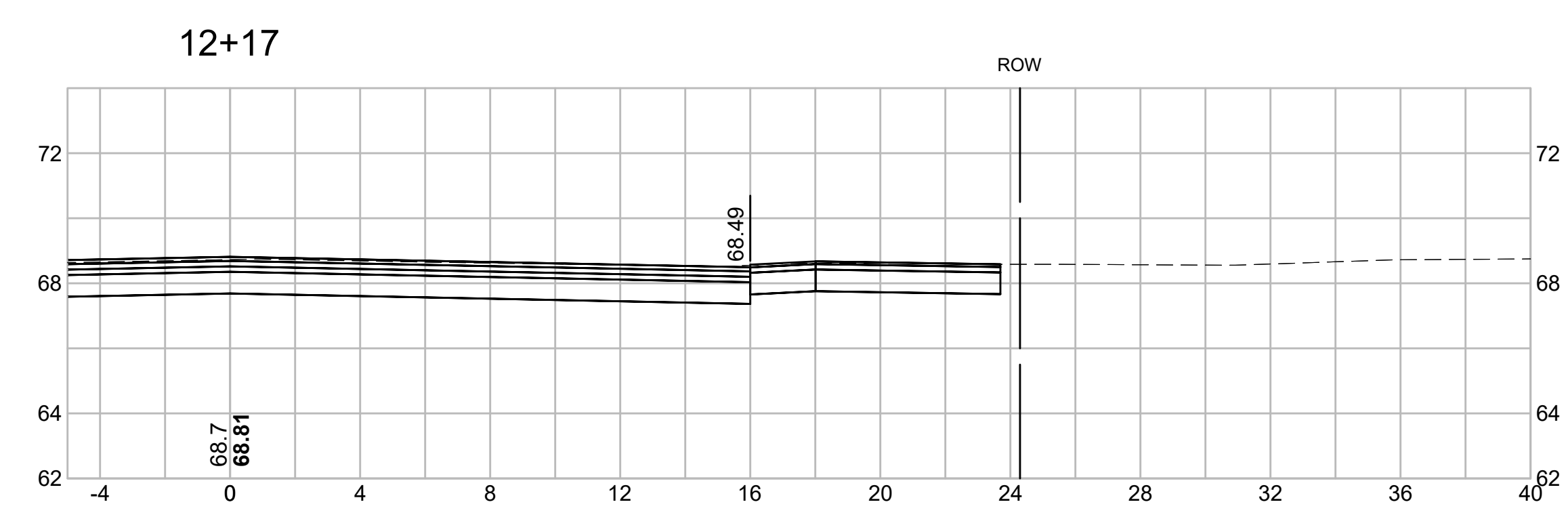
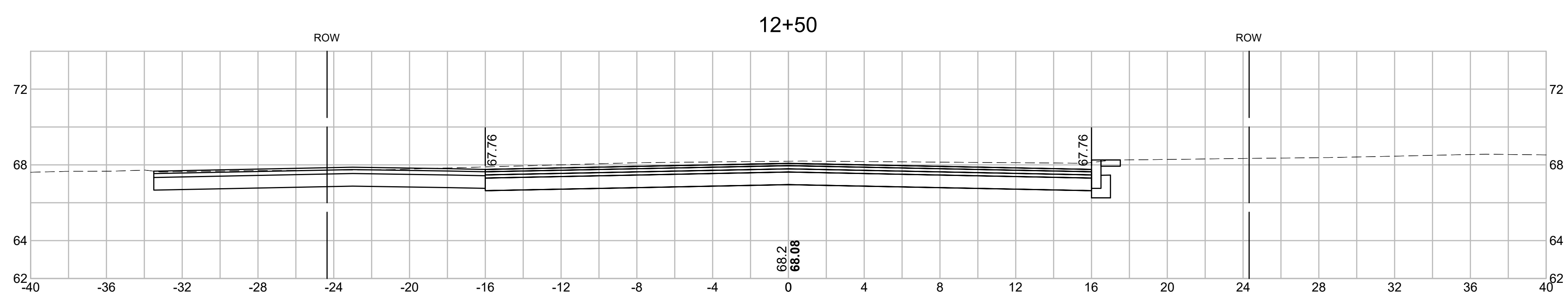
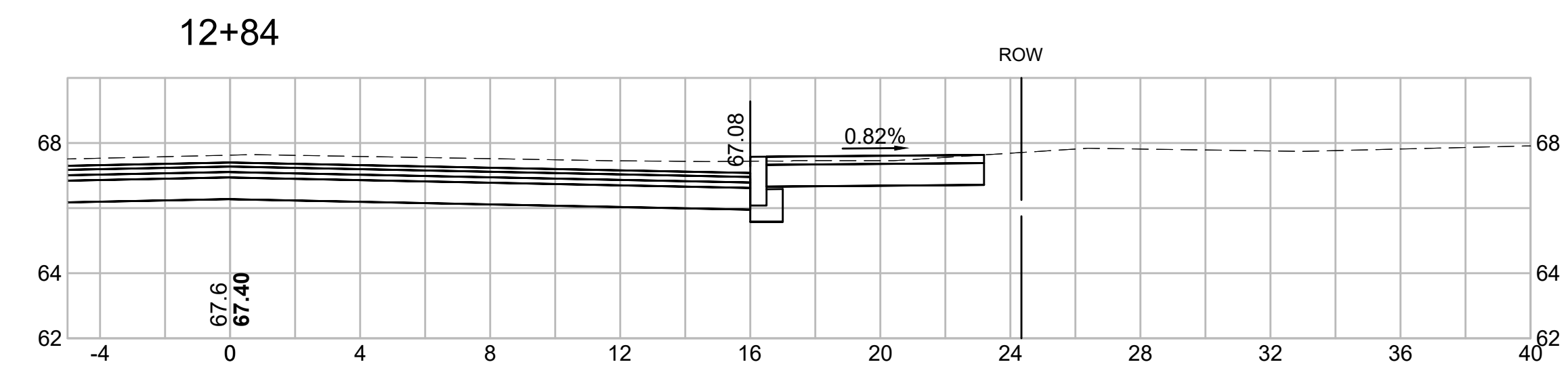
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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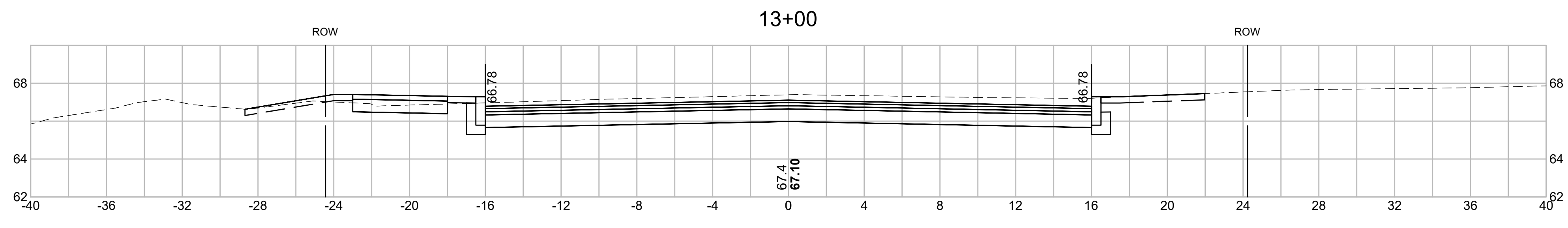
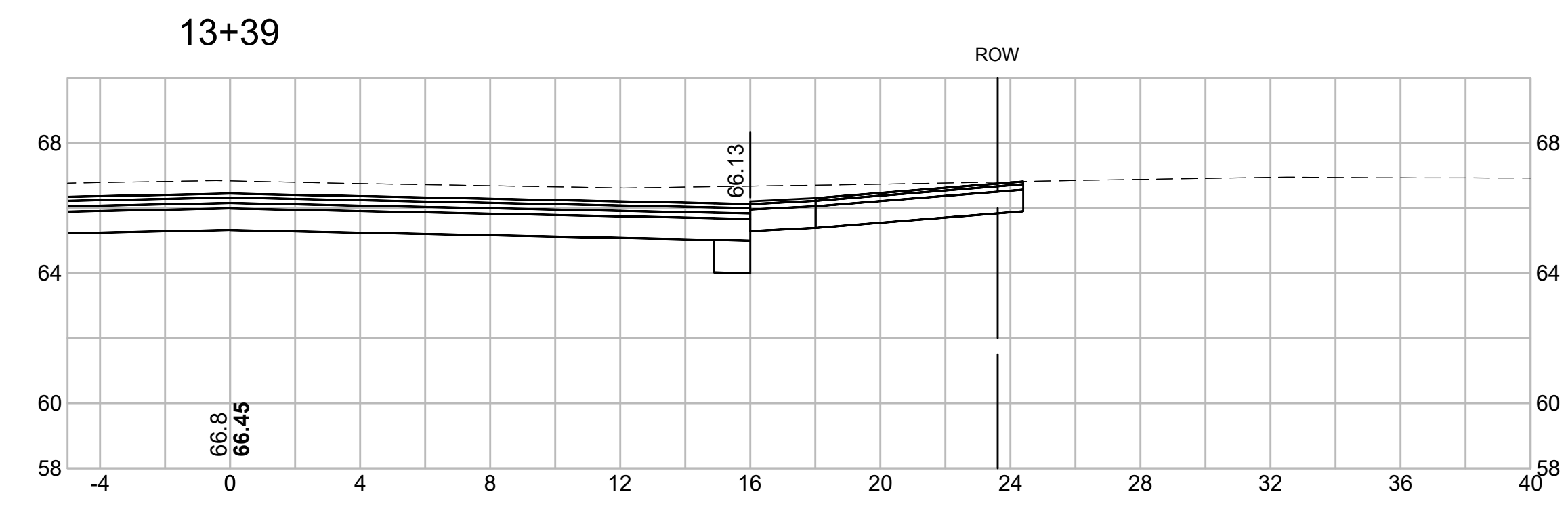
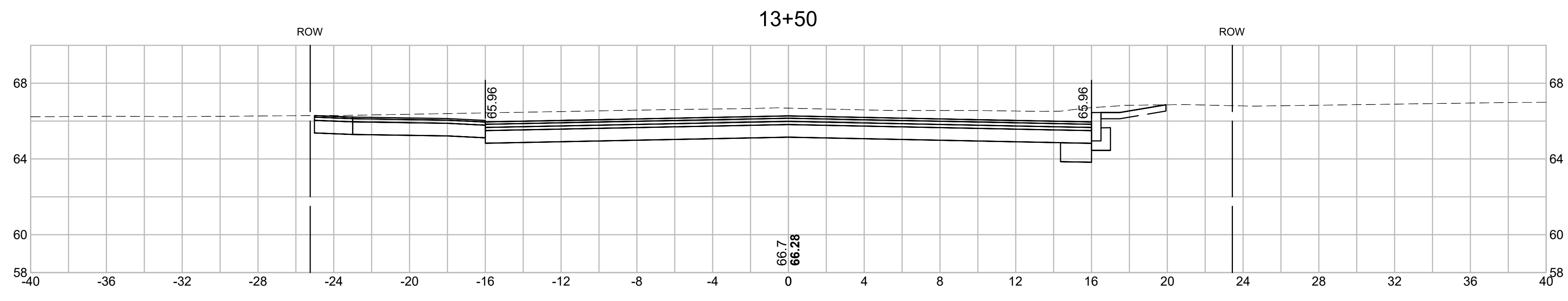
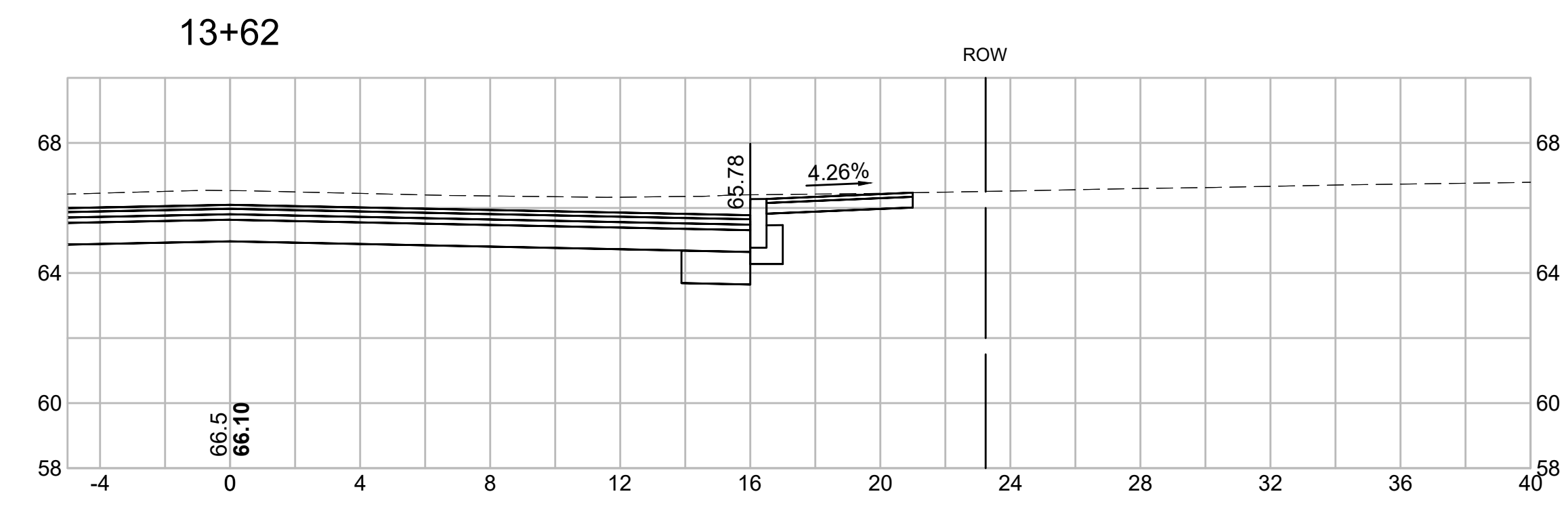
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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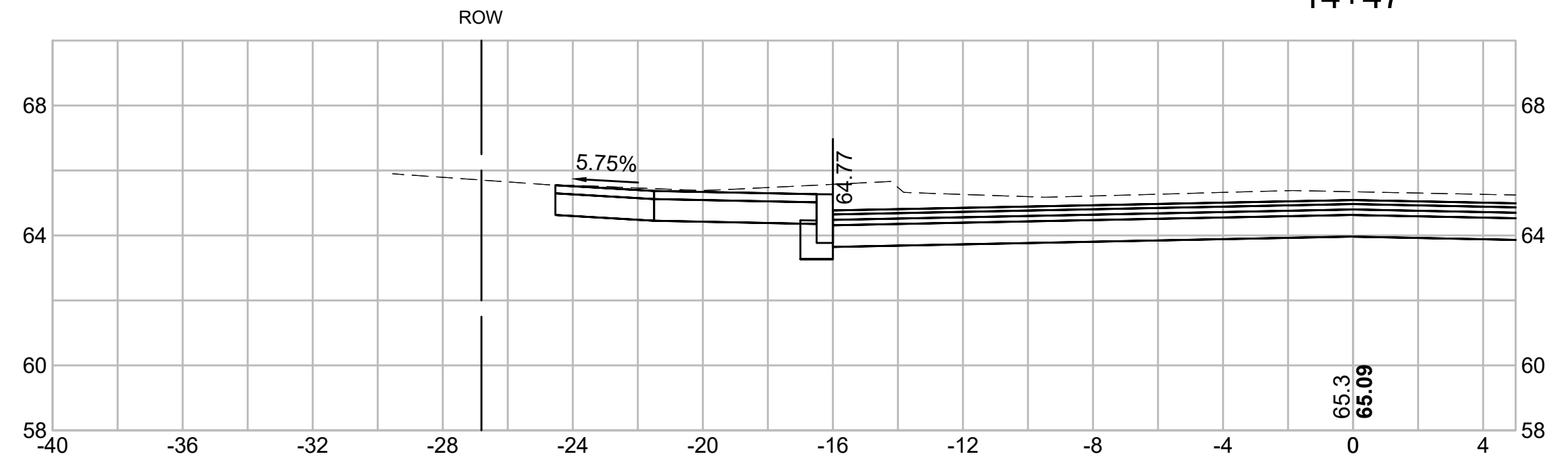
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 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

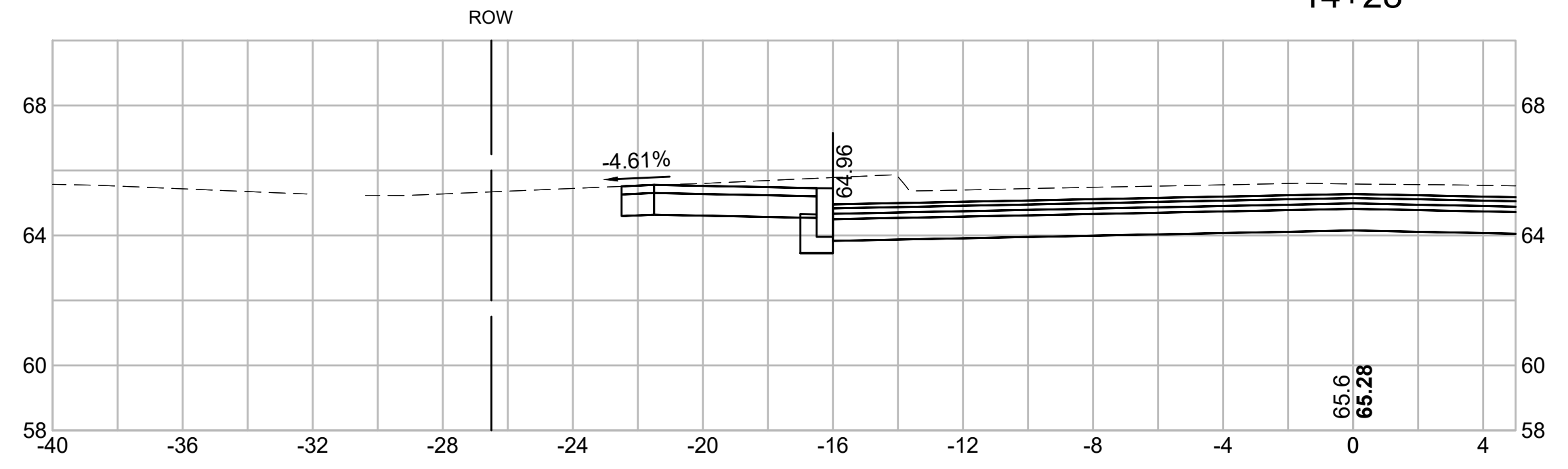
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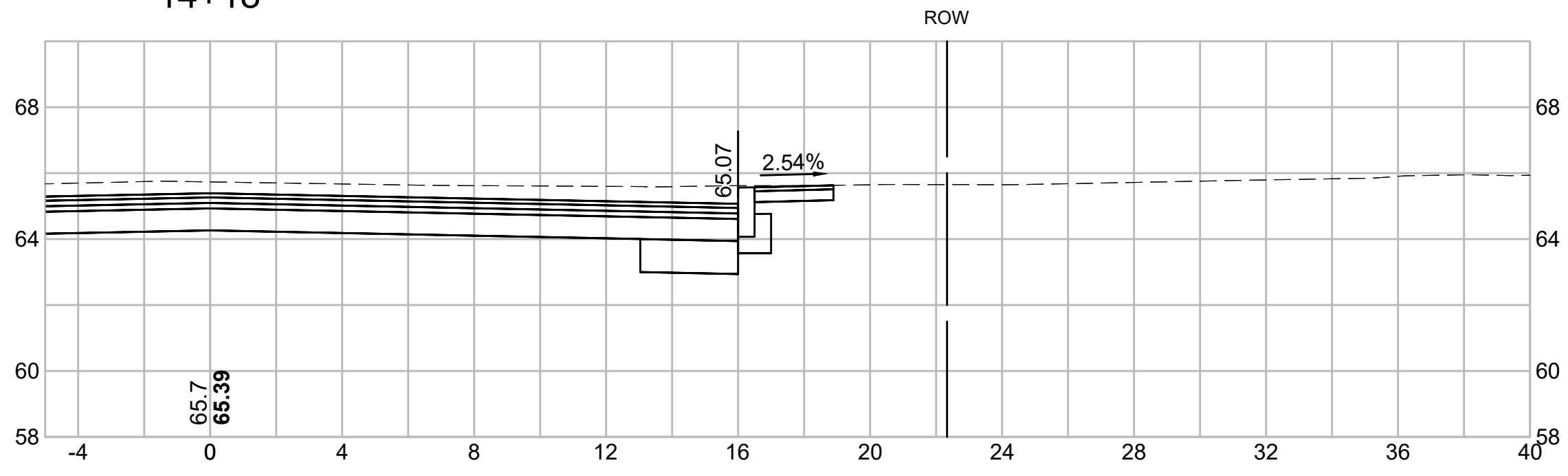
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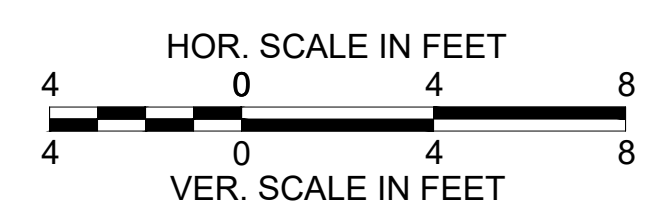
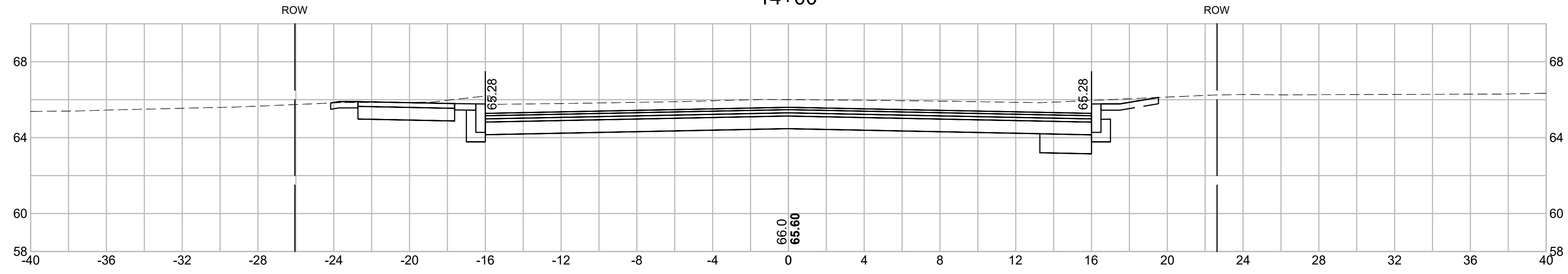
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14+00



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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

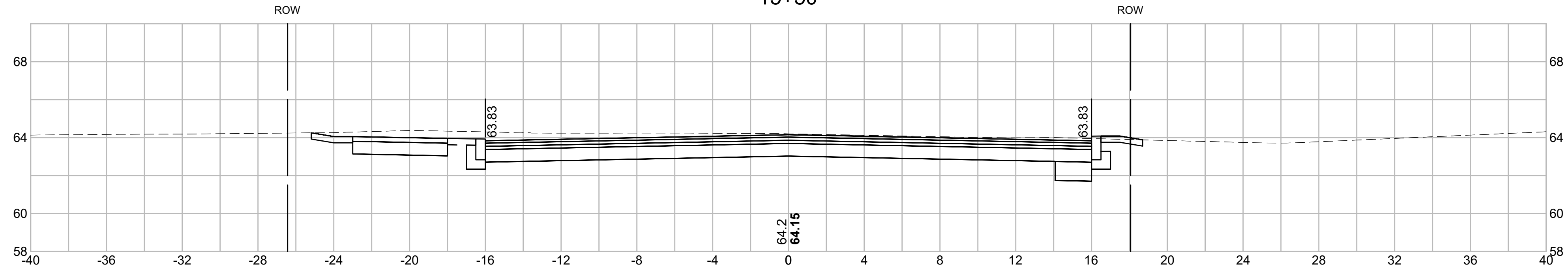
REVISIONS		
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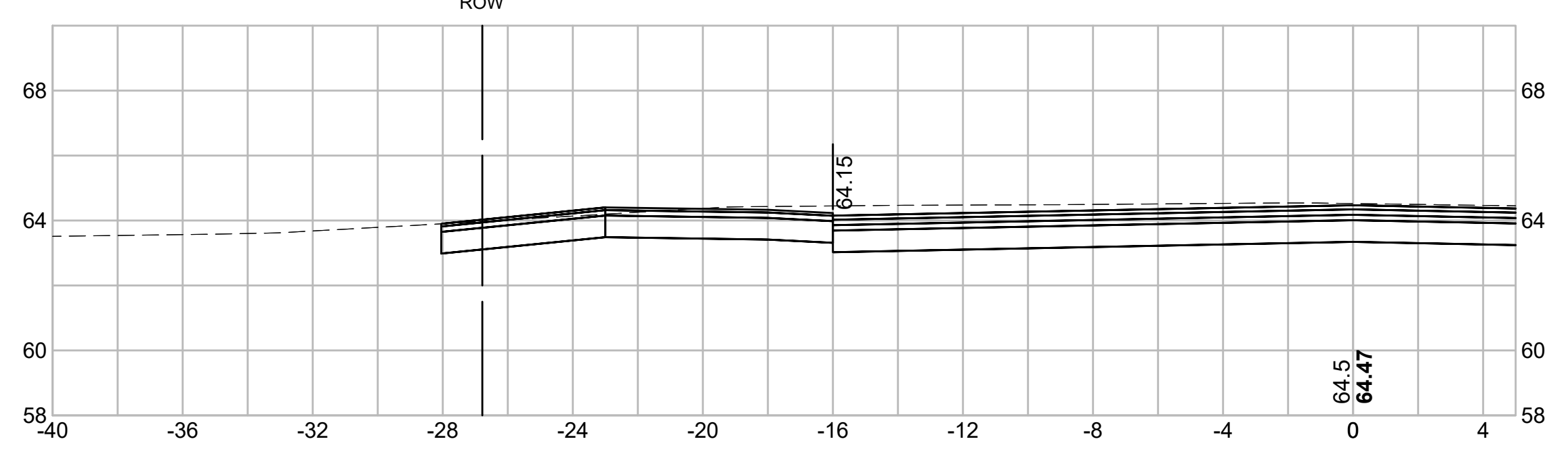
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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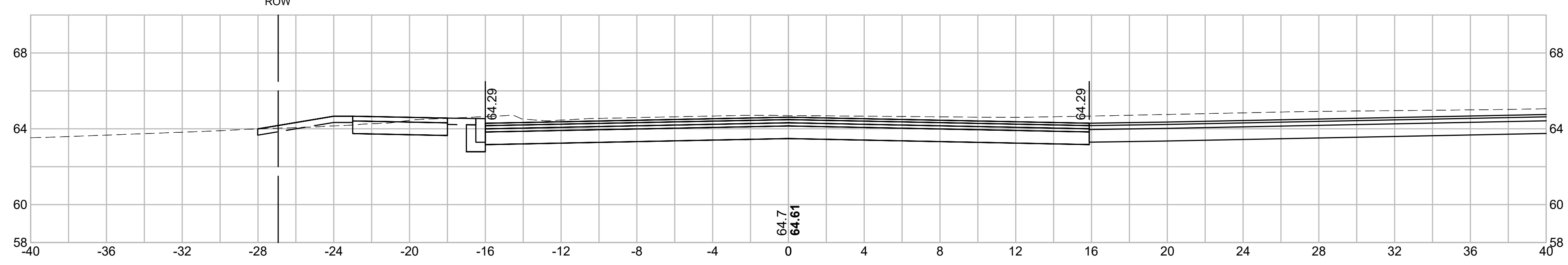
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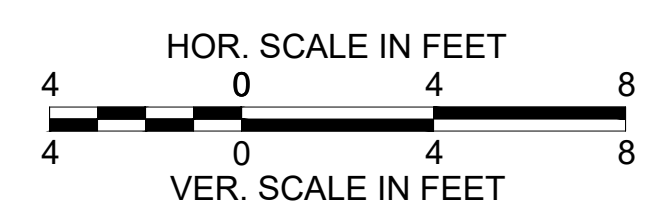
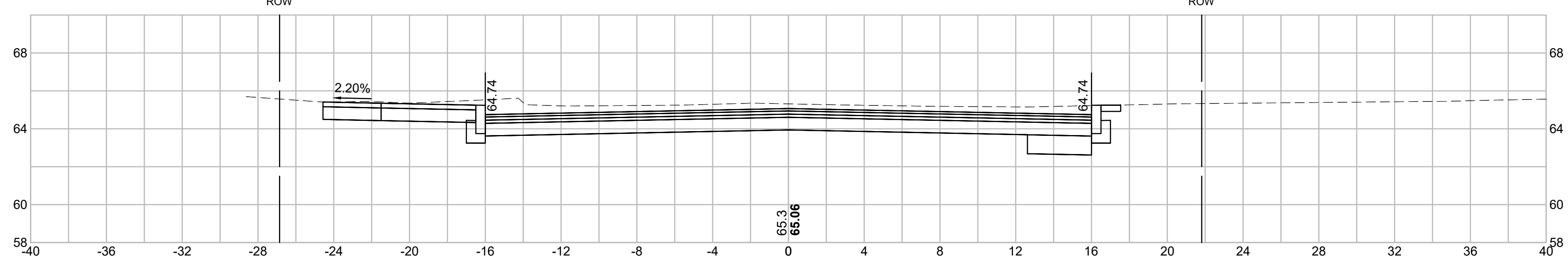
15+15



15+00



14+50





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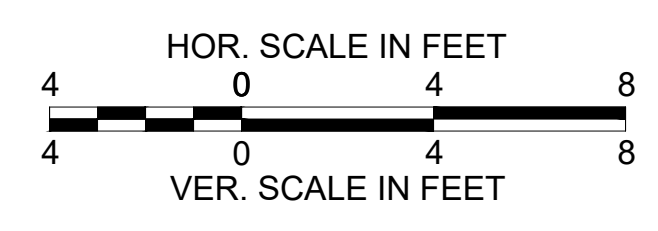
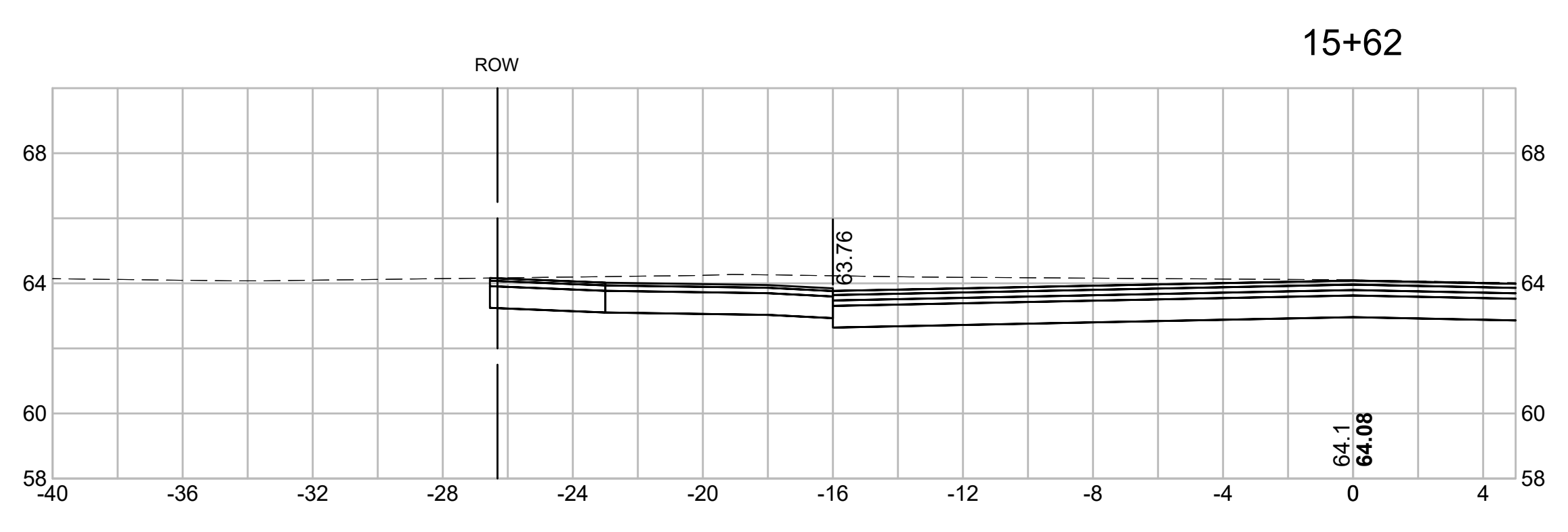
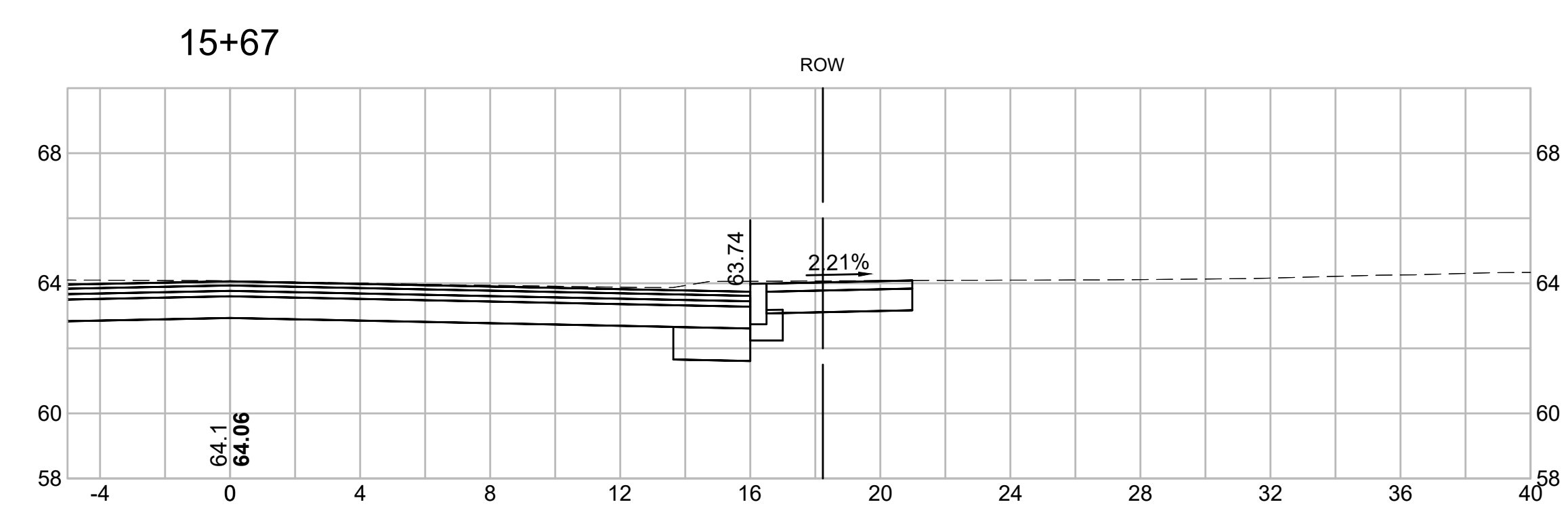
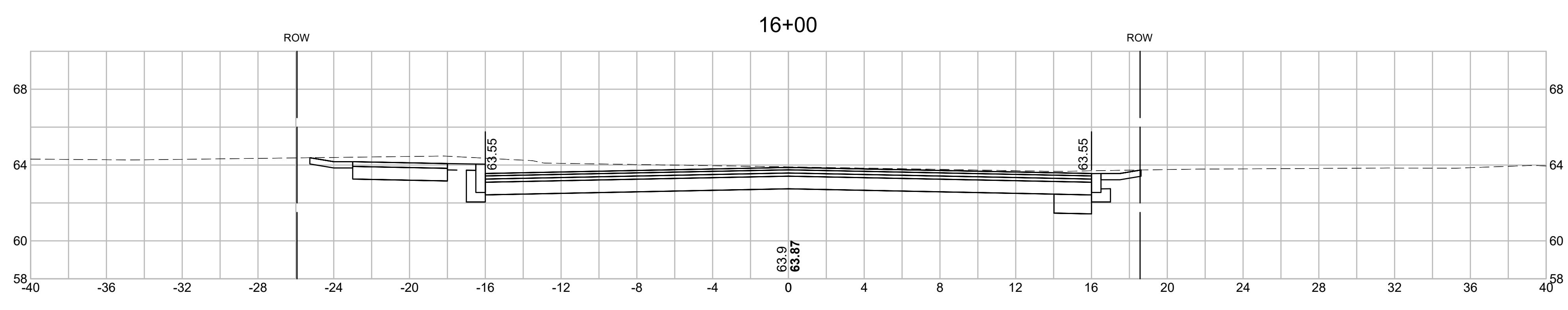
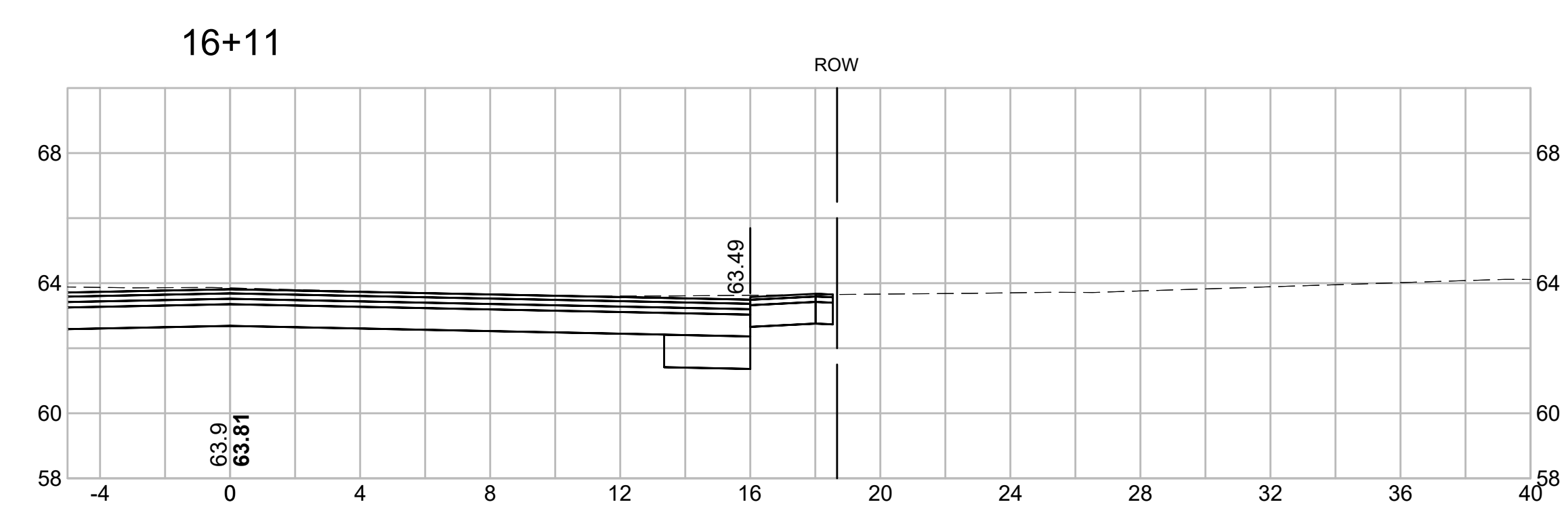
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
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 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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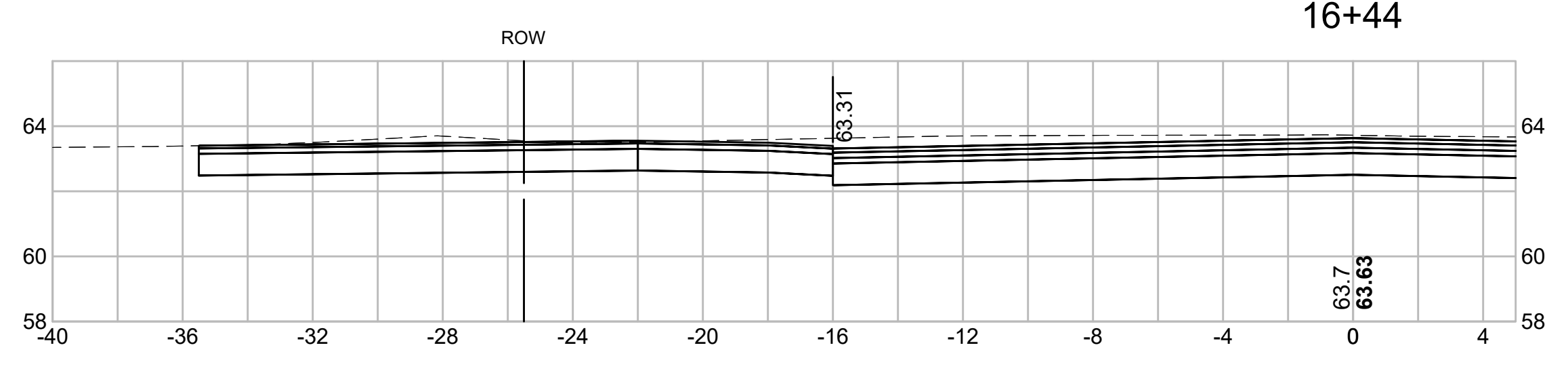
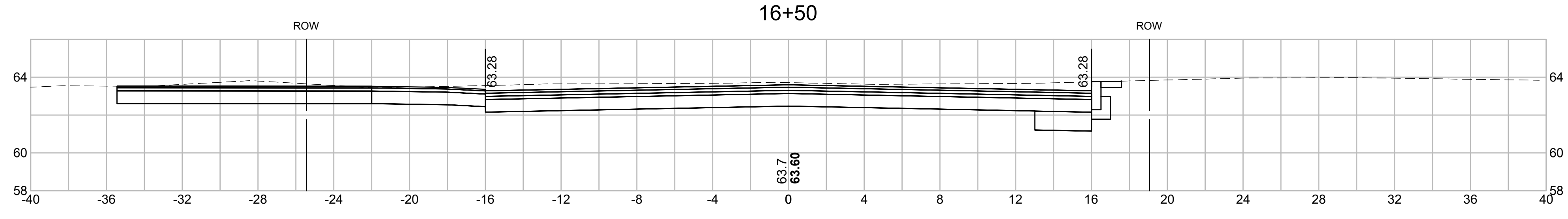
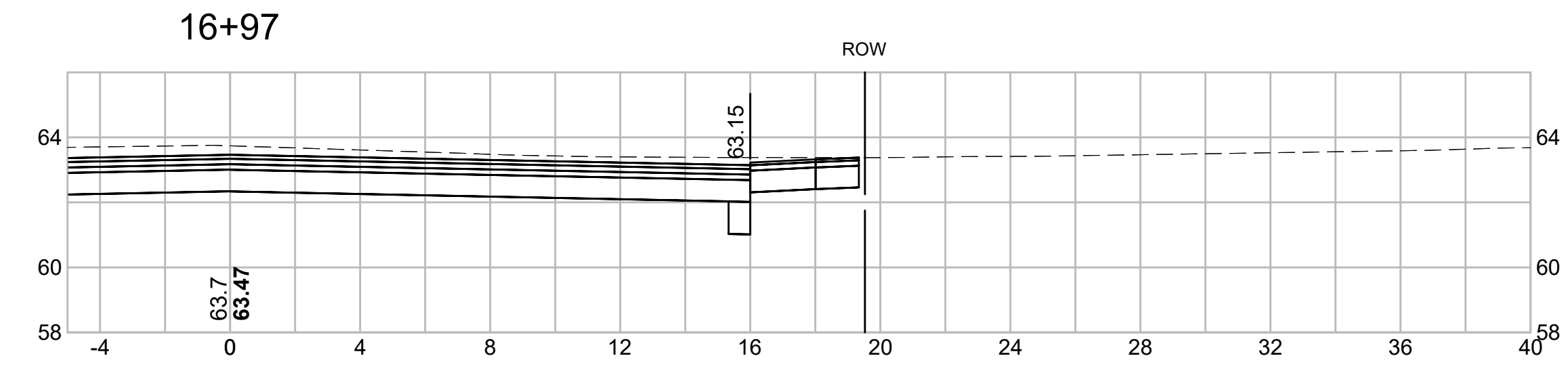
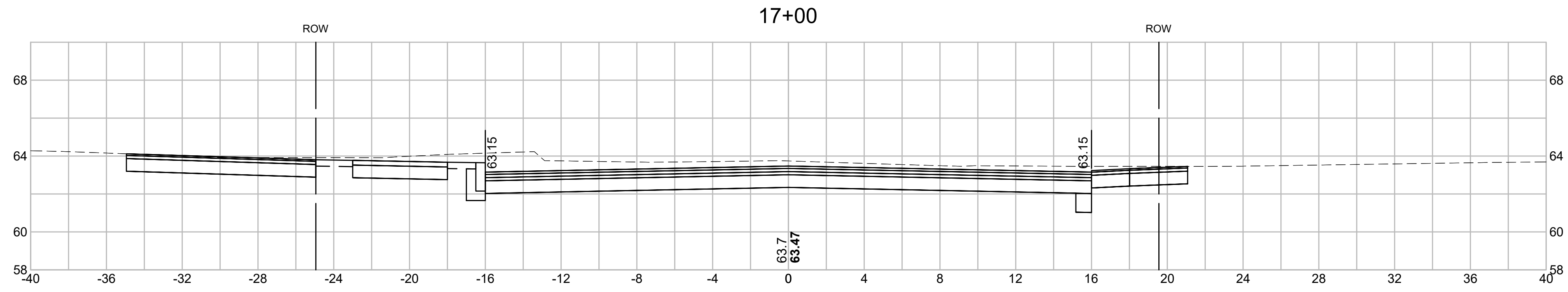
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**MAPLEWOOD
 AVENUE
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SCALE: 1"=4'

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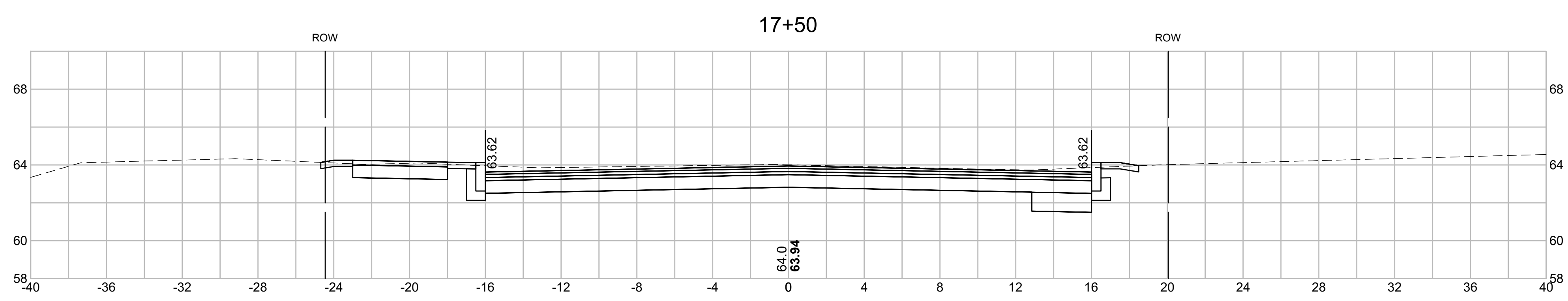
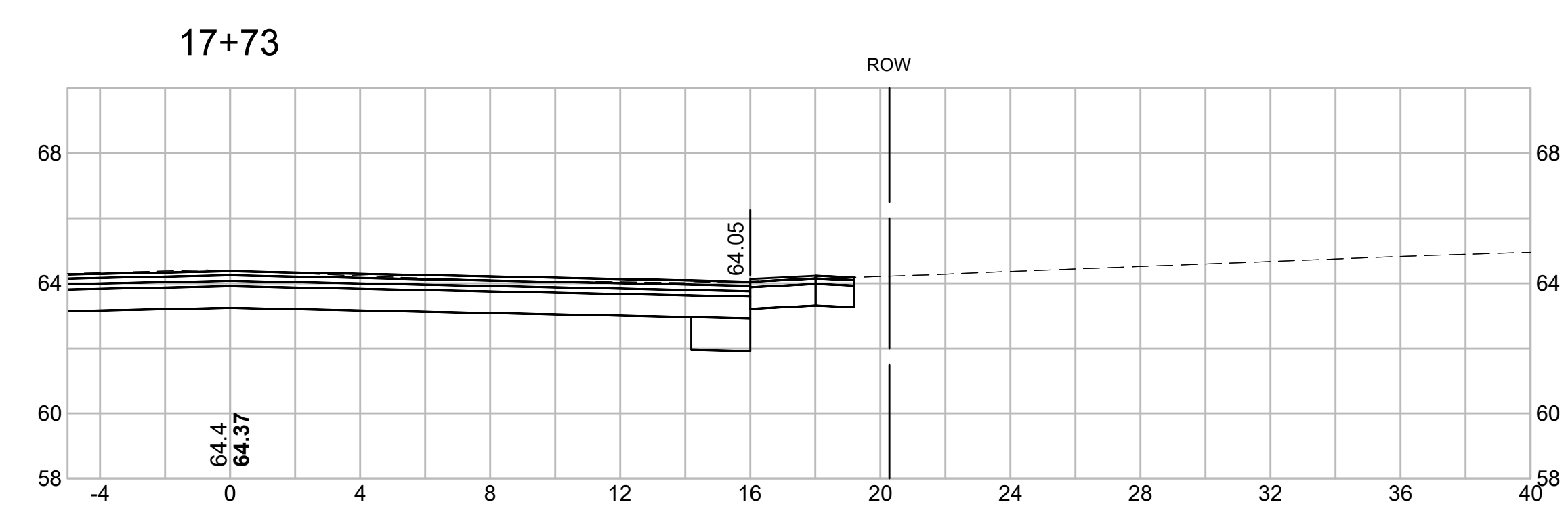
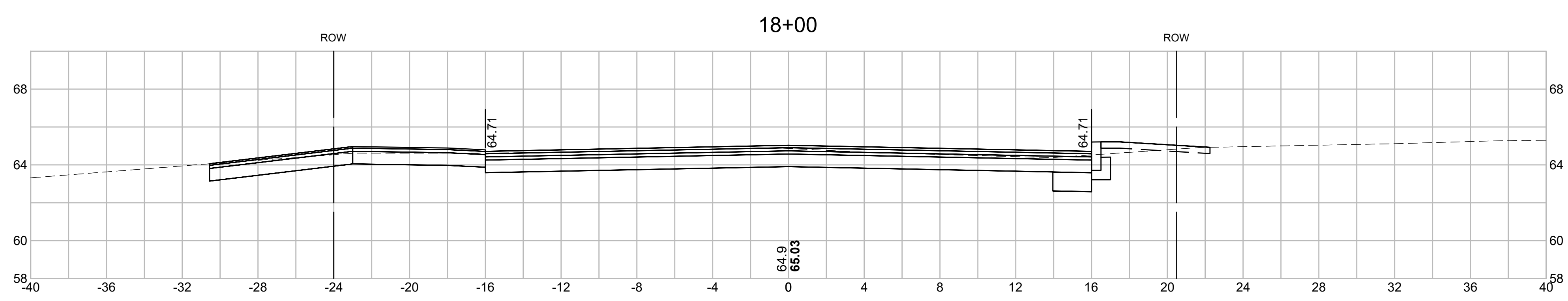
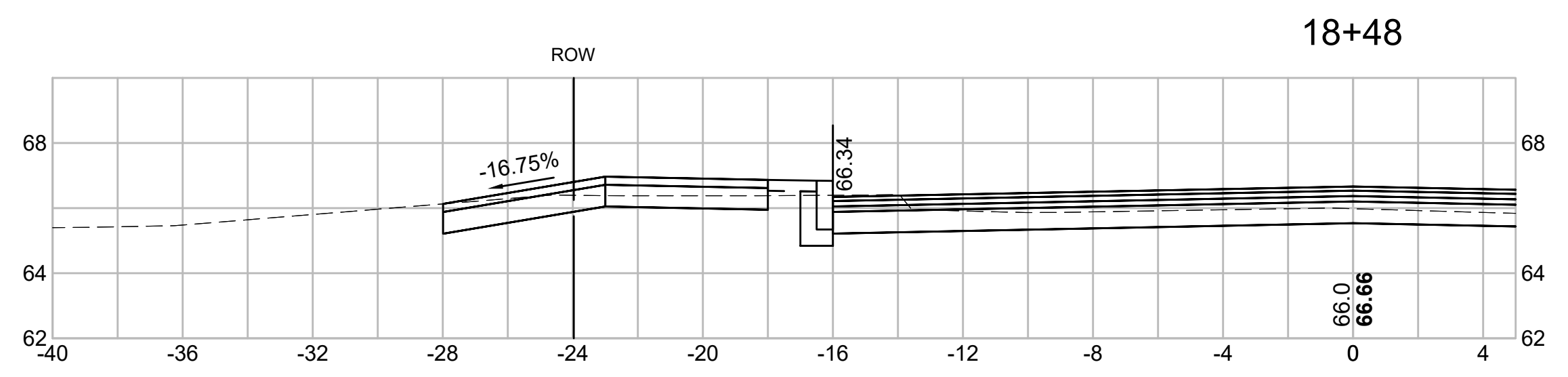
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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 AVENUE
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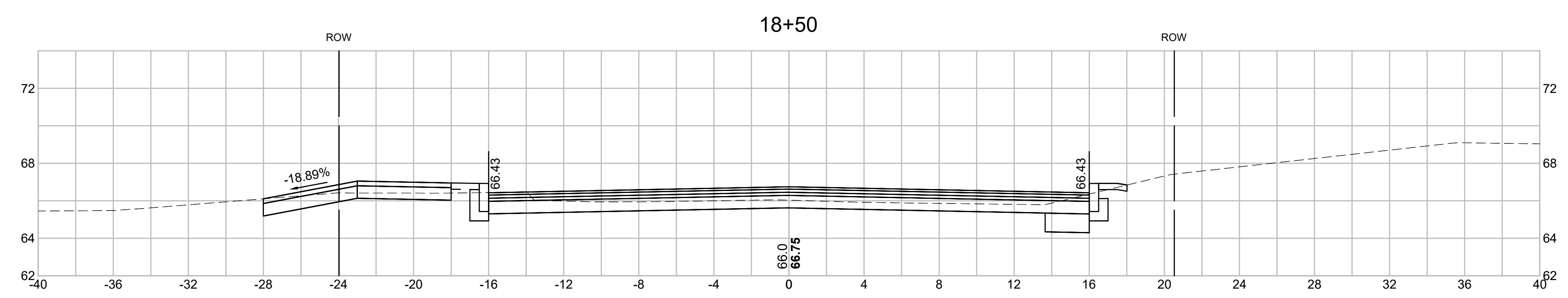
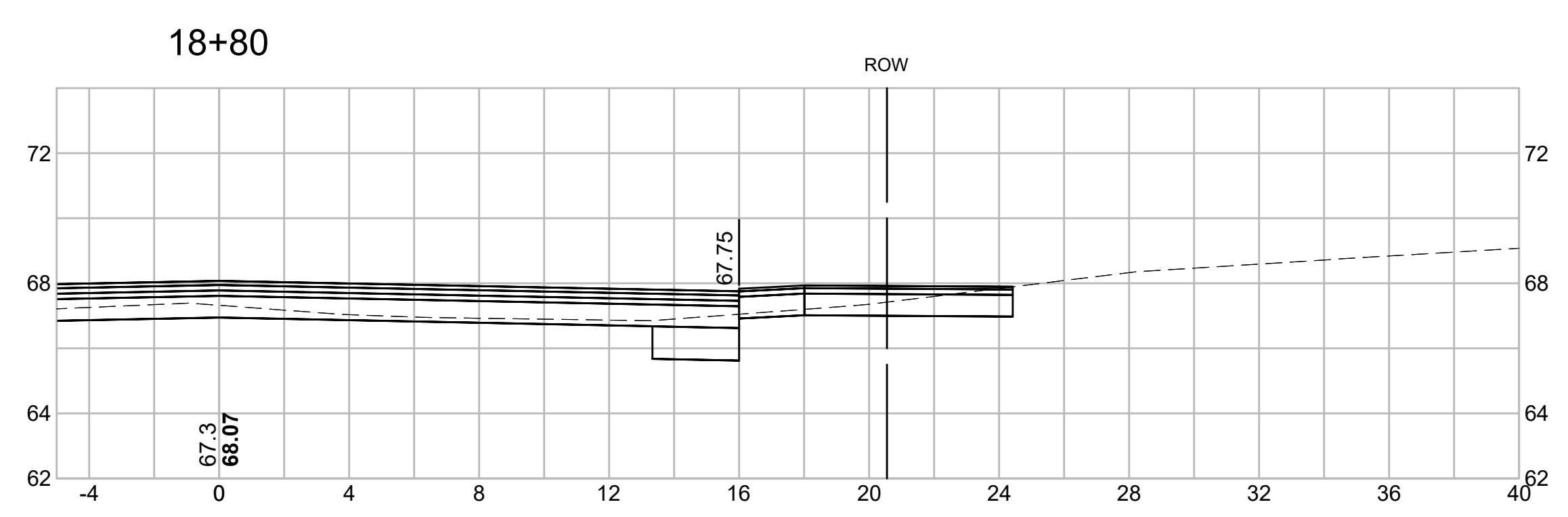
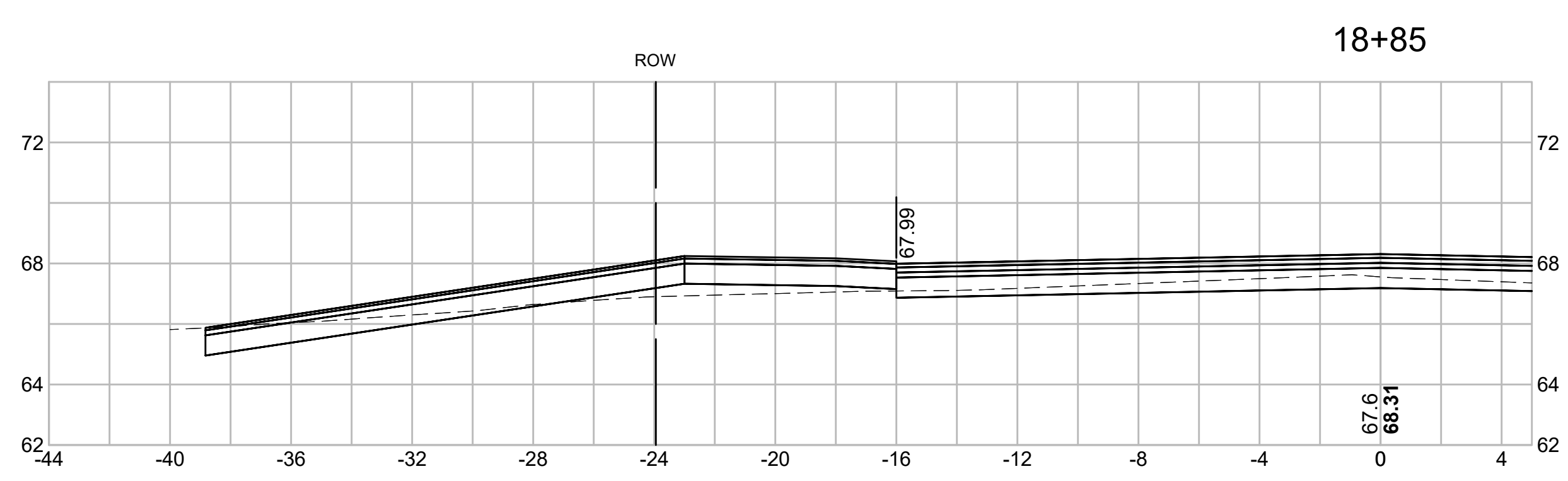
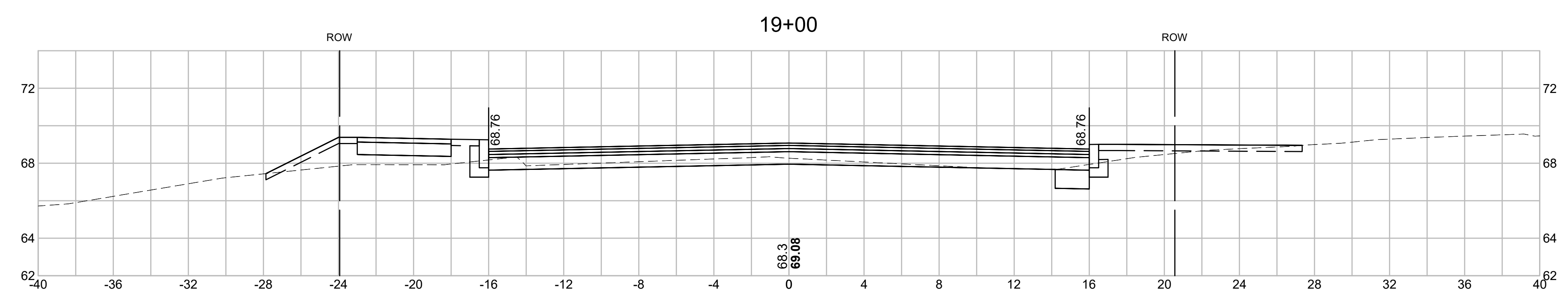
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
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 PORTSMOUTH, NH**

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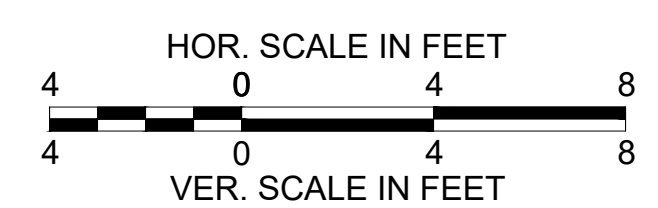
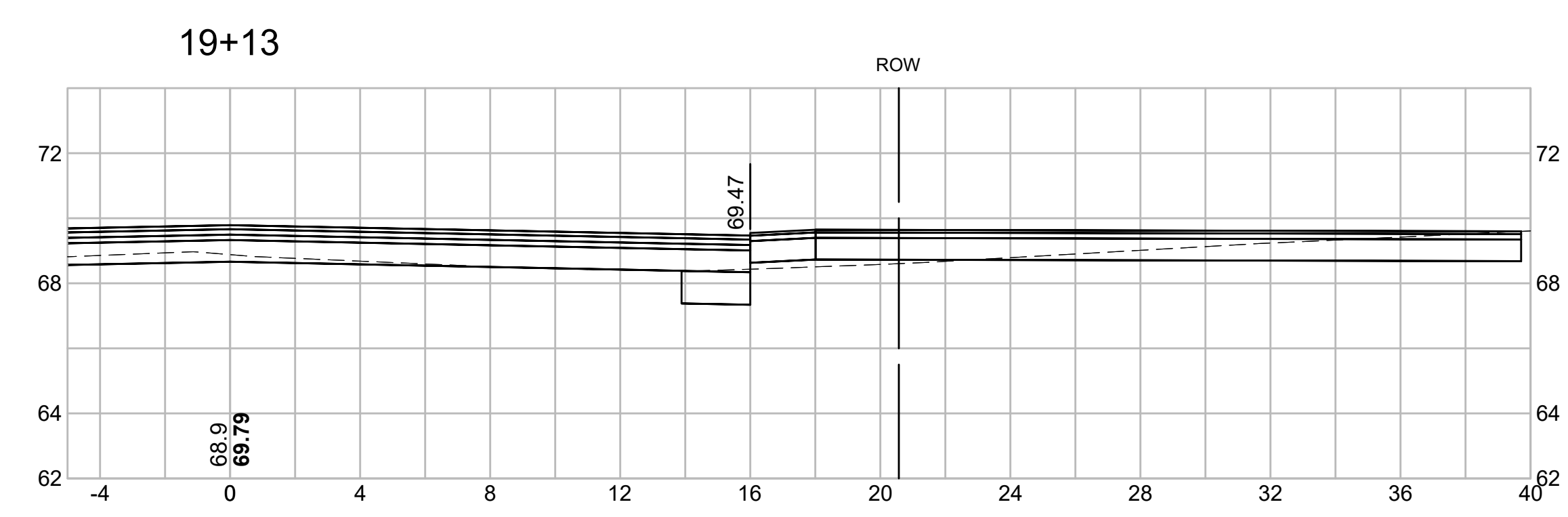
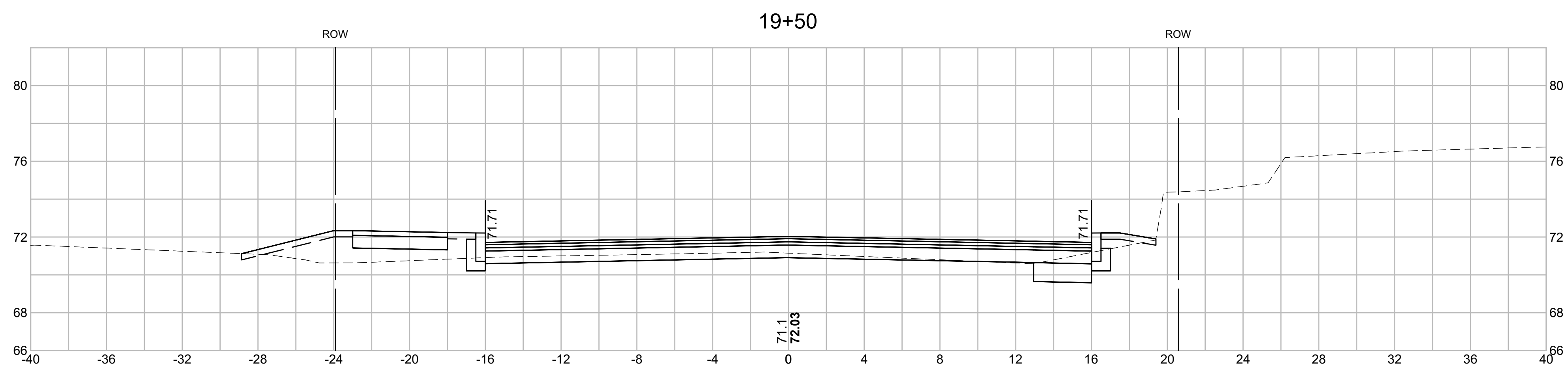
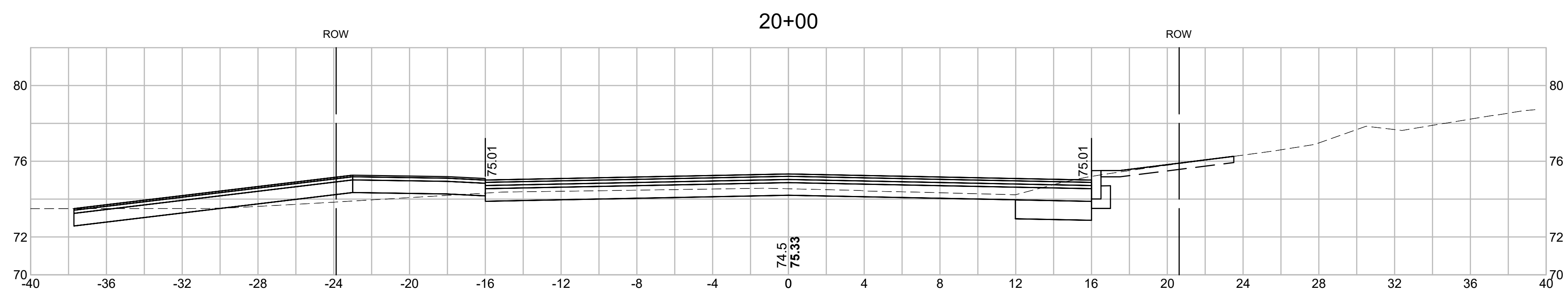
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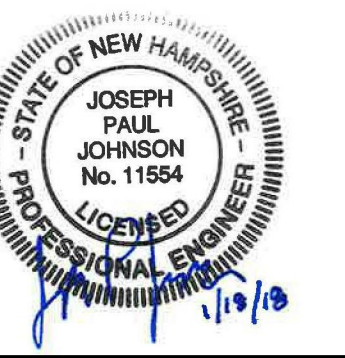
**MAPLEWOOD
 AVENUE
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 SECTIONS**

SCALE: 1"=4'

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 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

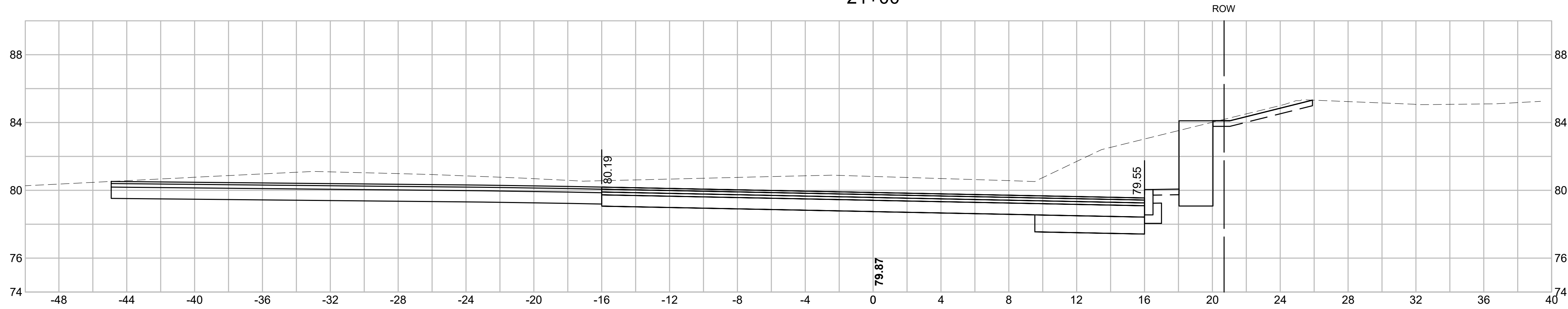
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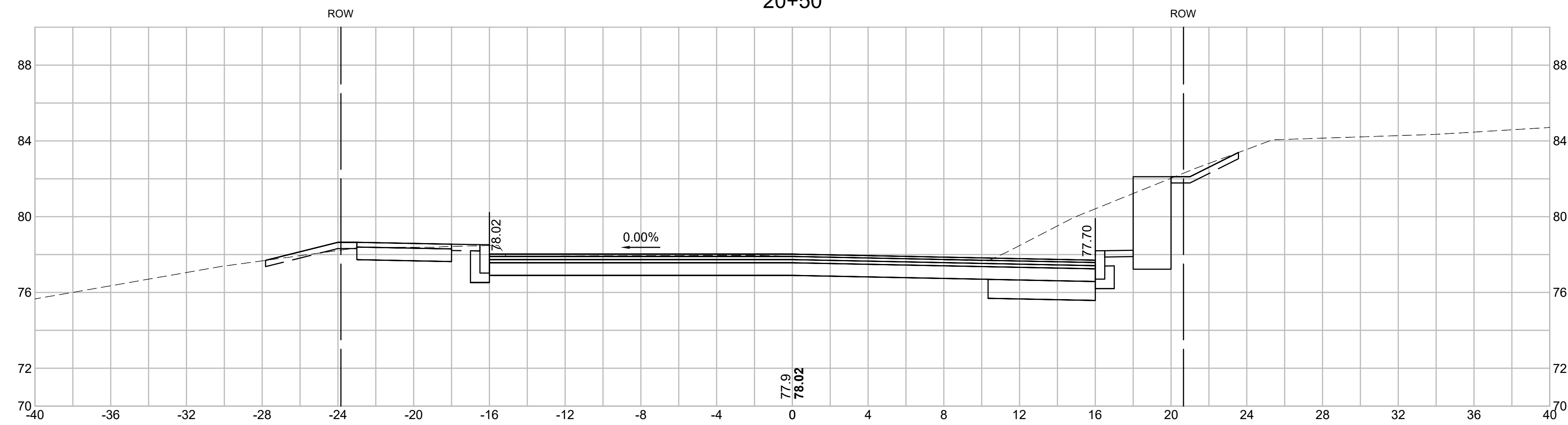
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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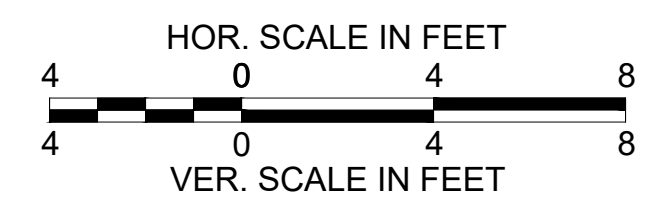
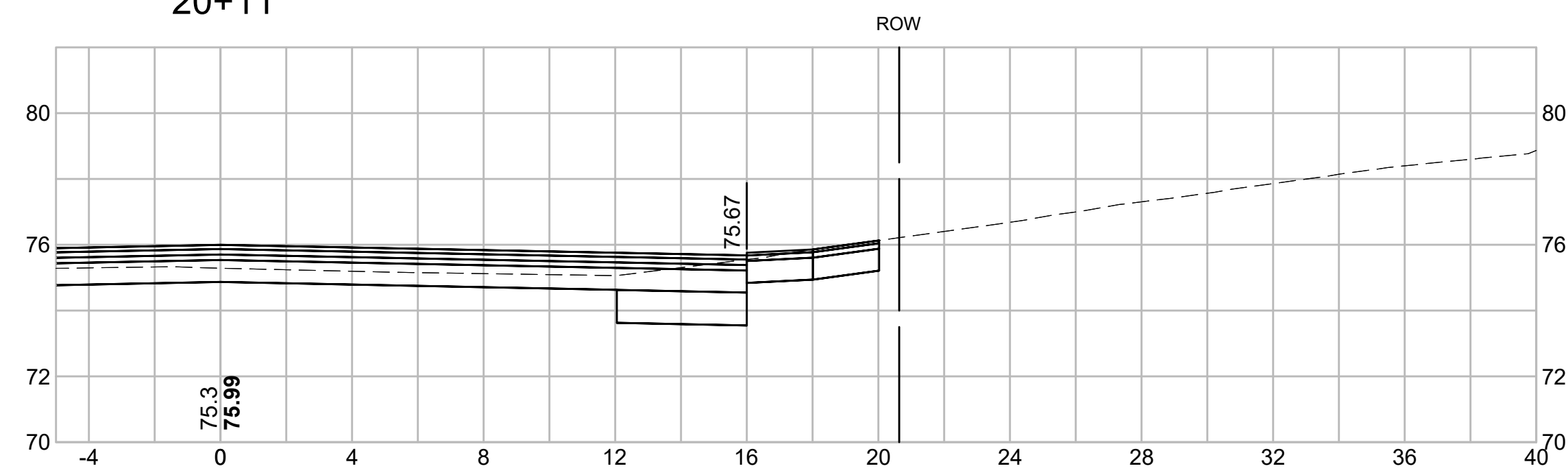
21+00



20+50



20+11





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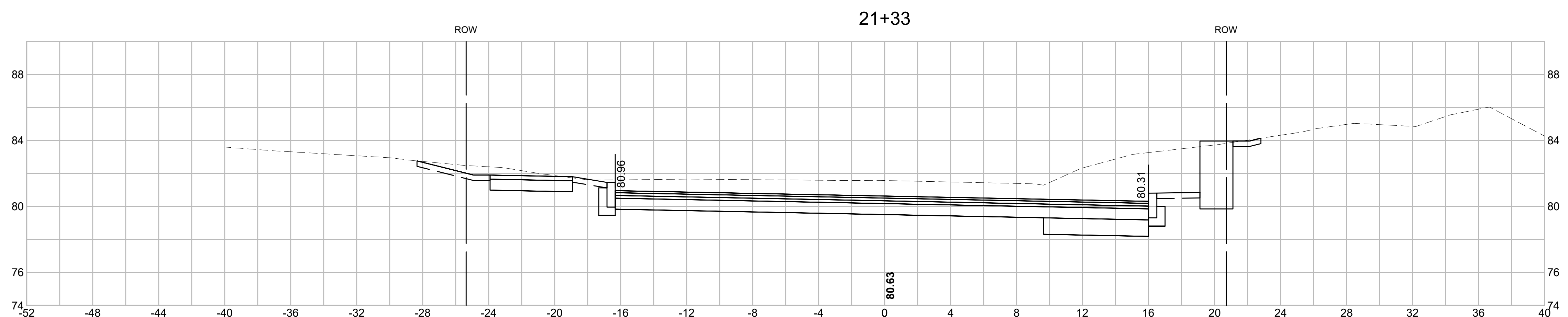
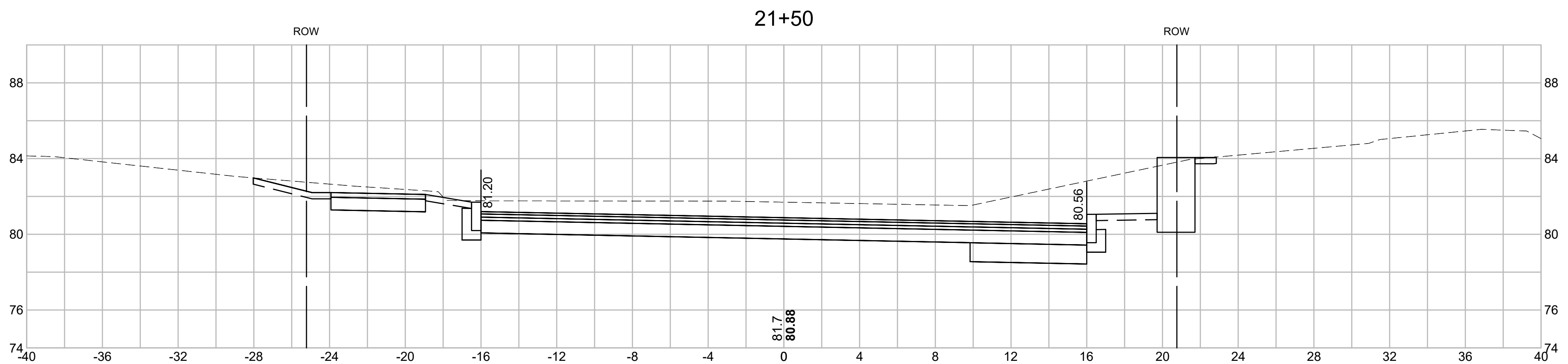
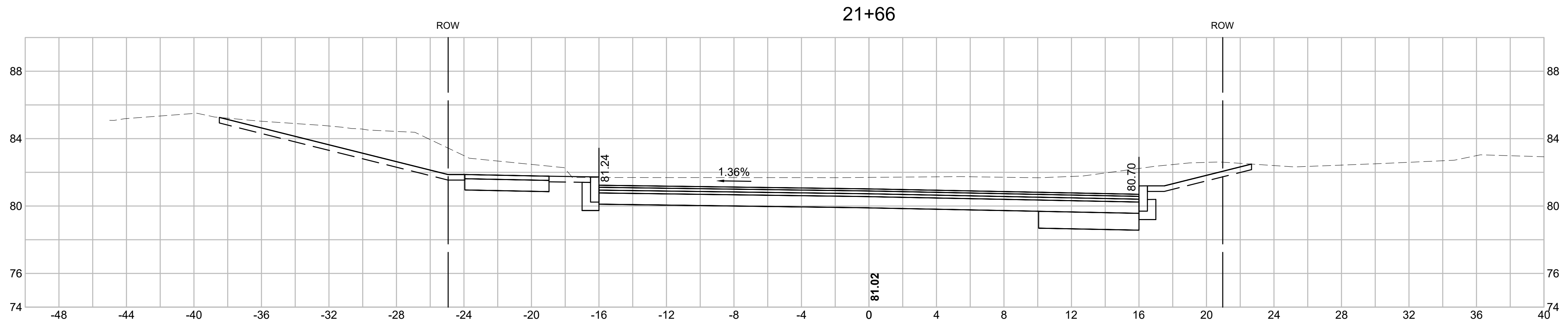
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
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 PORTSMOUTH, NH 03801

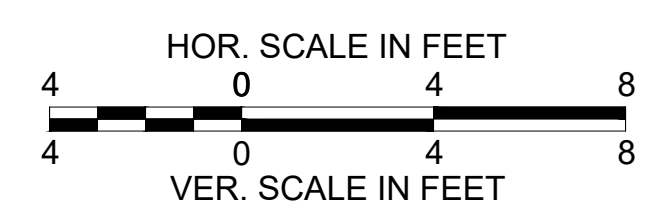
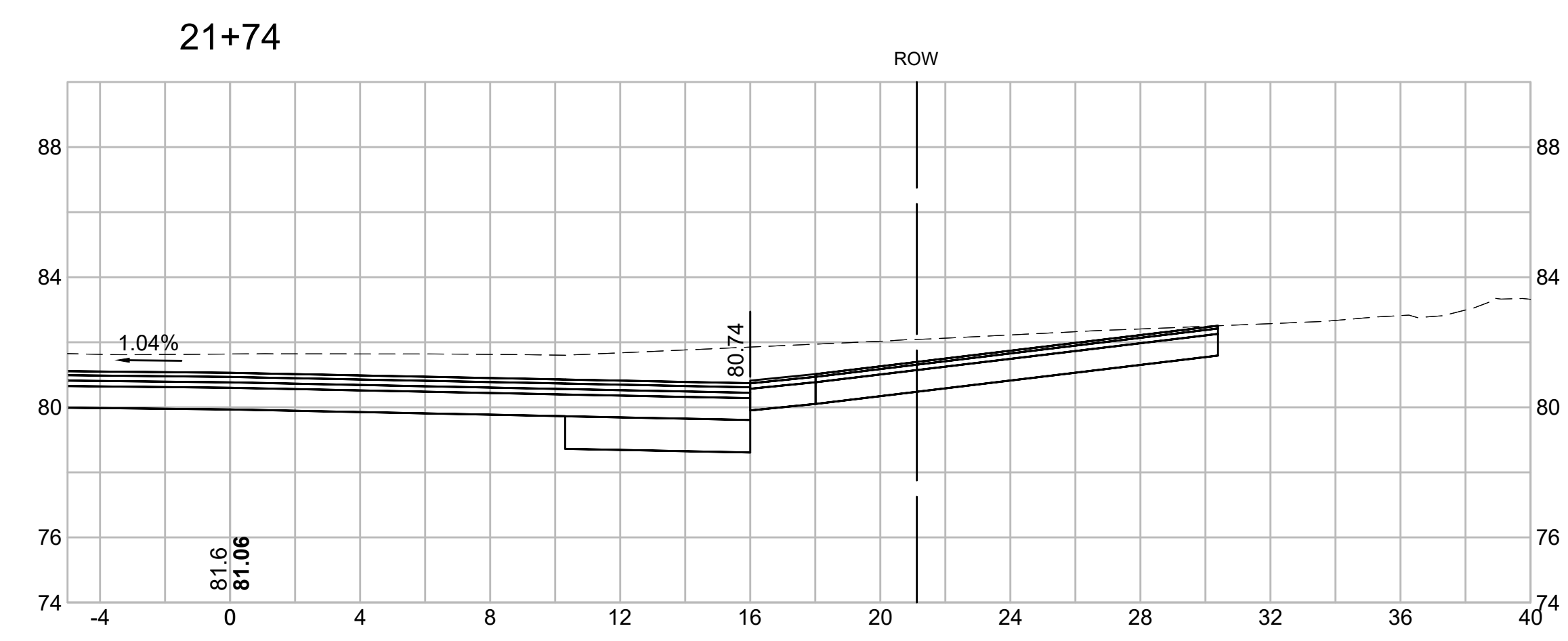
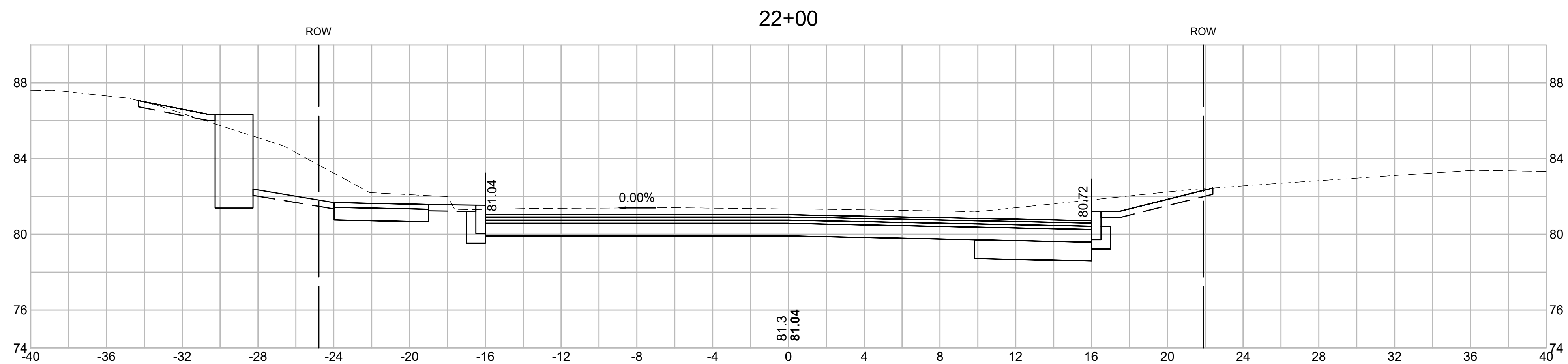
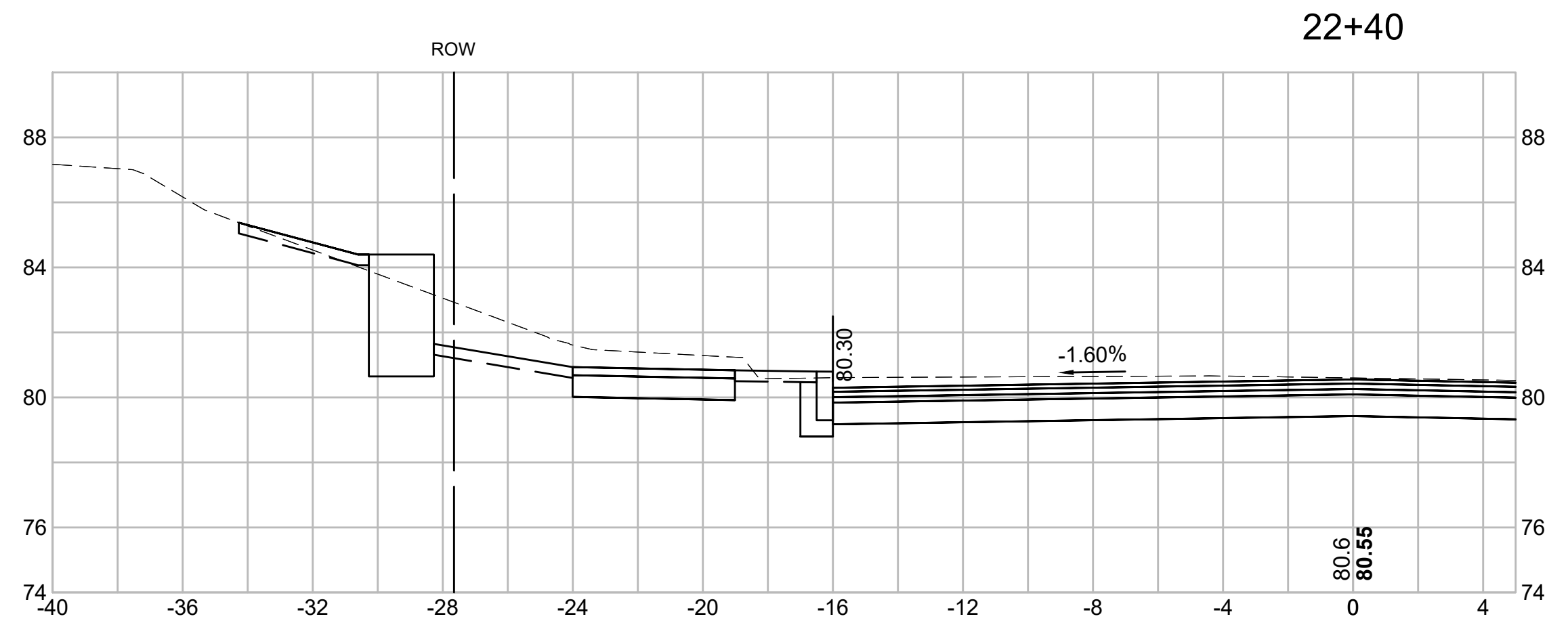
**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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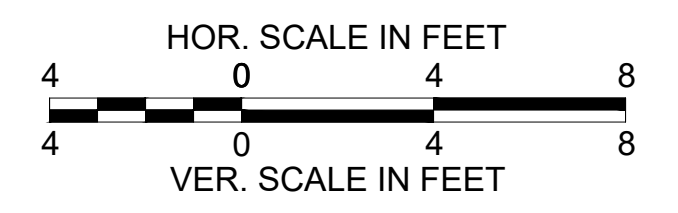
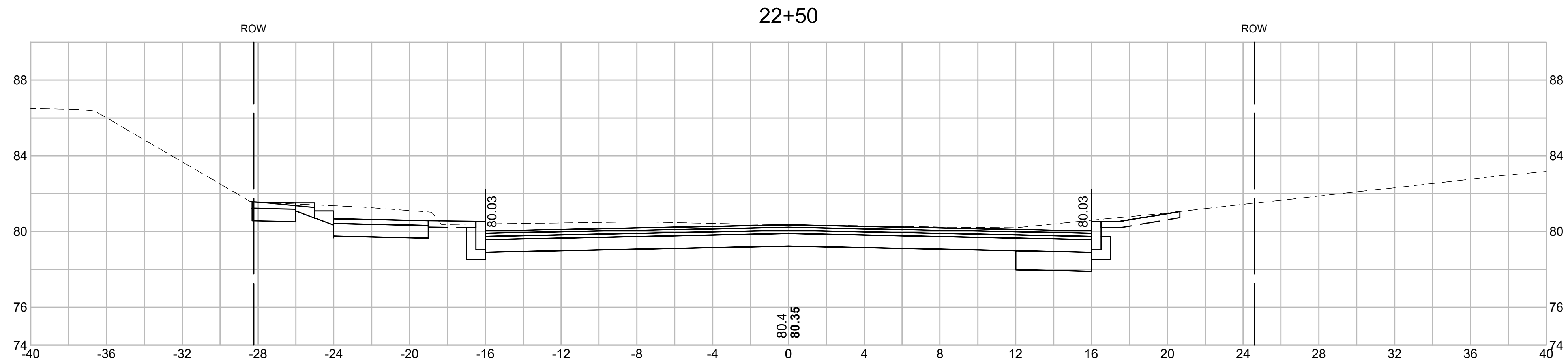
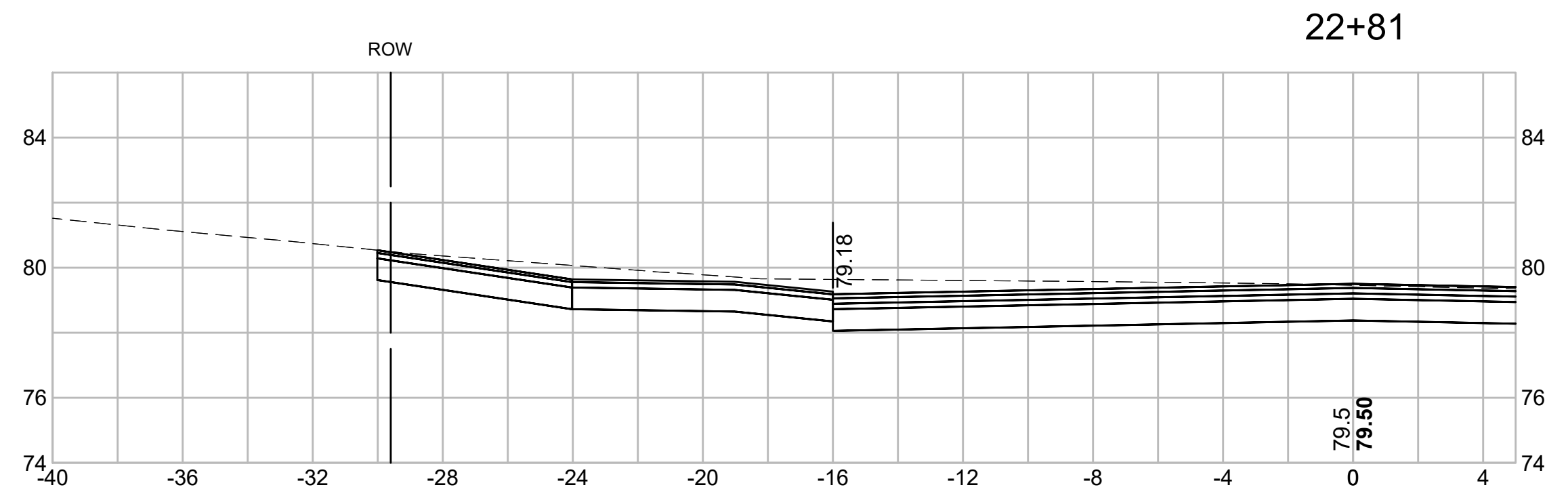
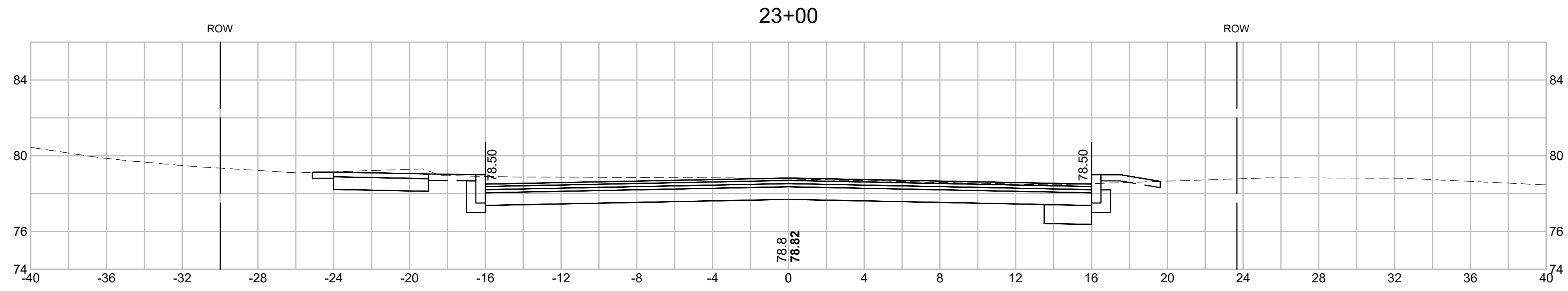
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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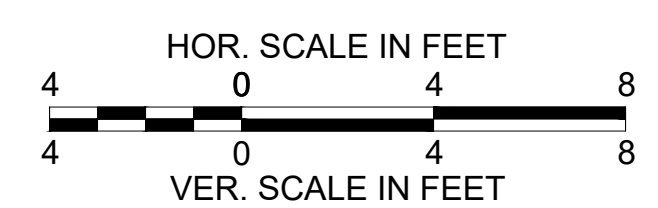
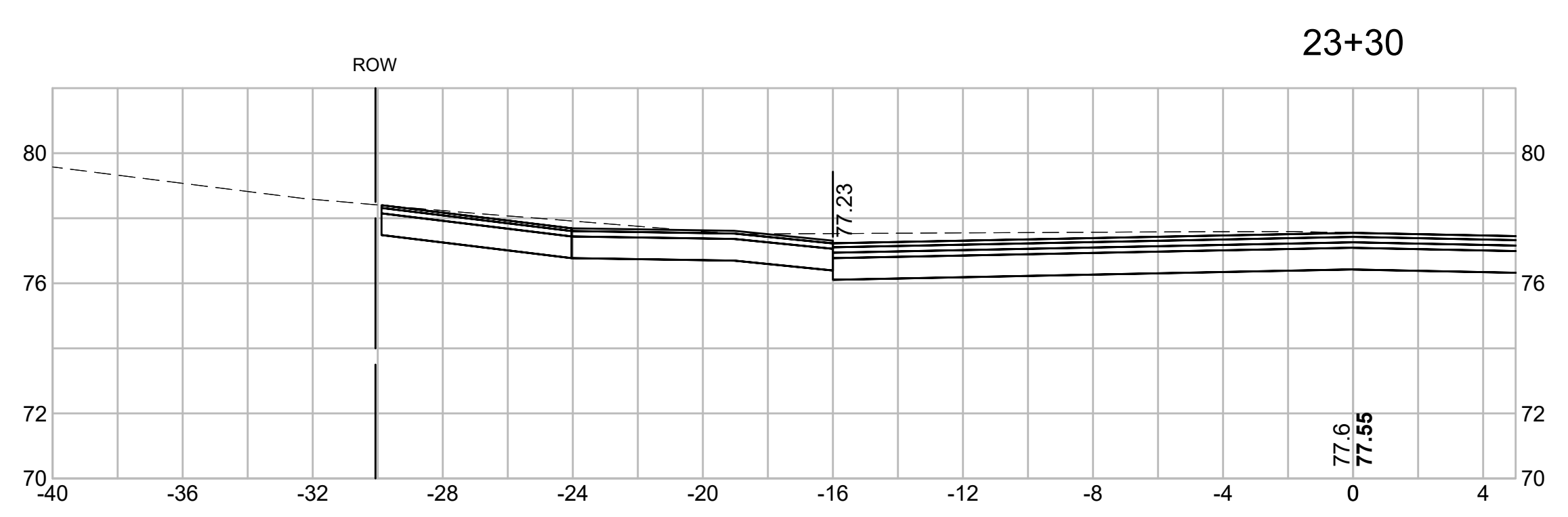
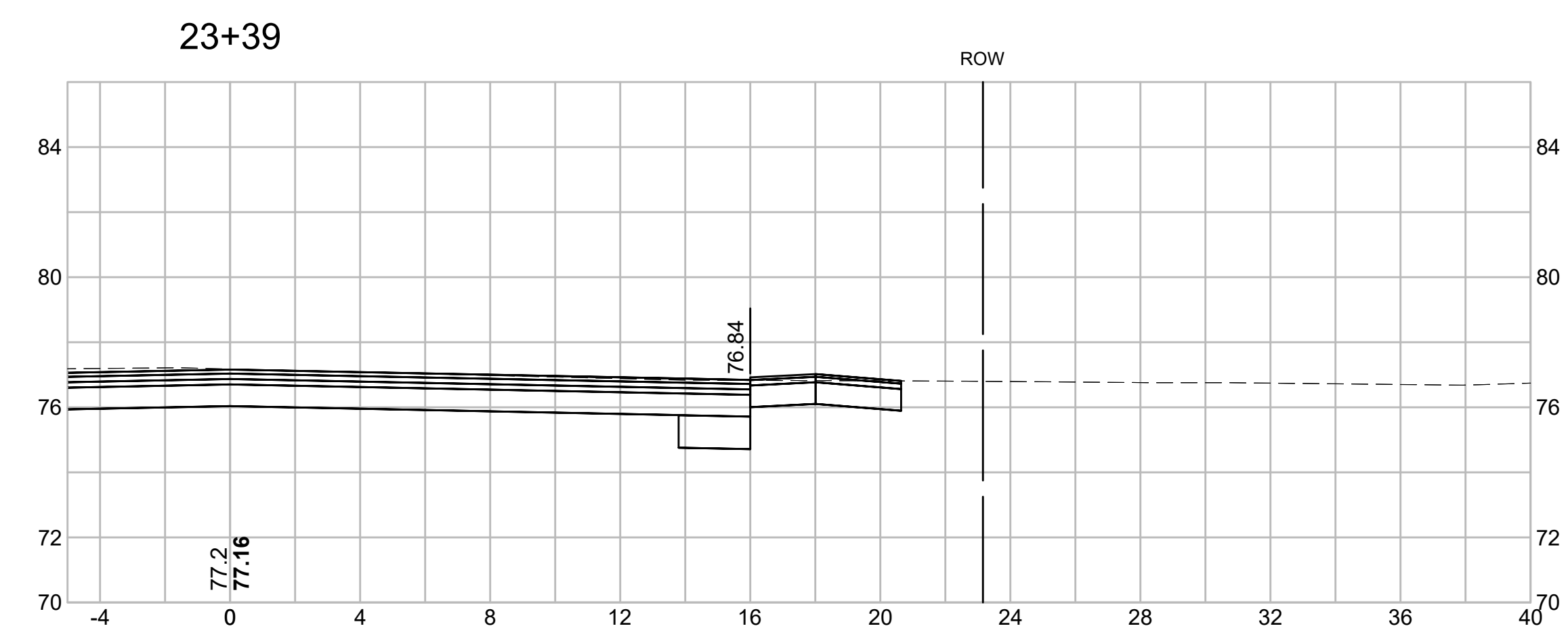
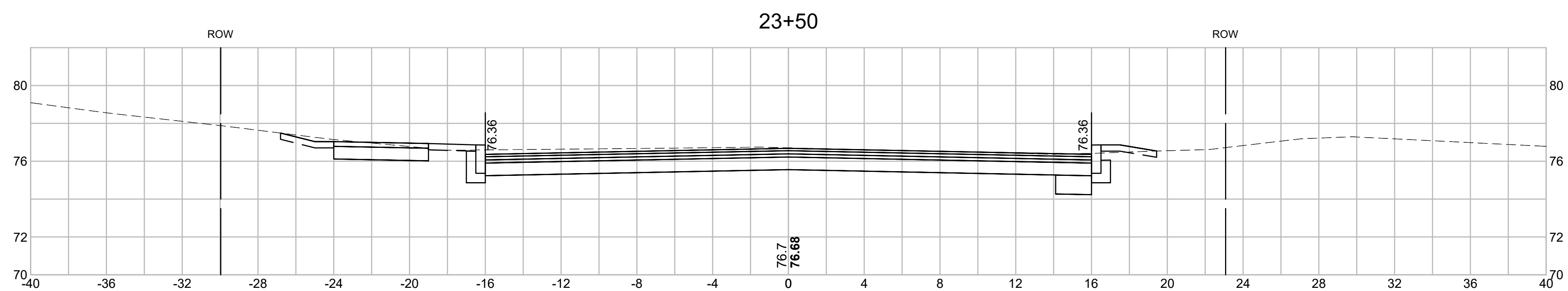
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
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**IMPROVEMENTS TO MAPLEWOOD
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 PORTSMOUTH, NH**

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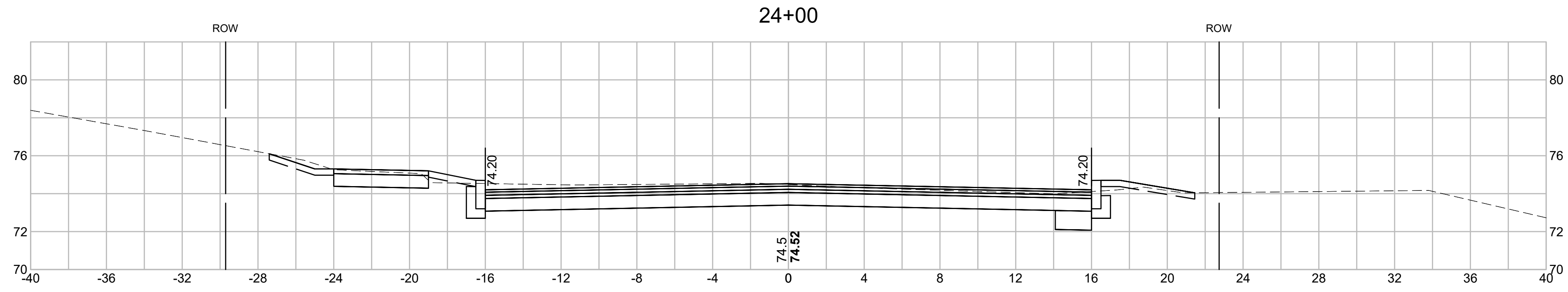
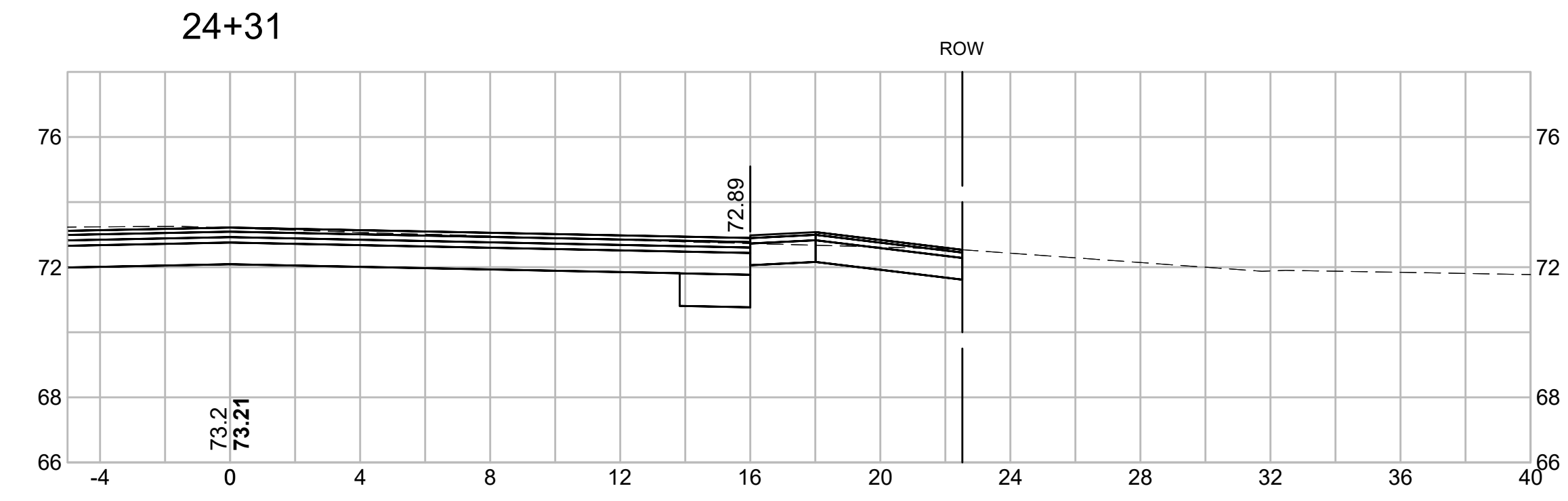
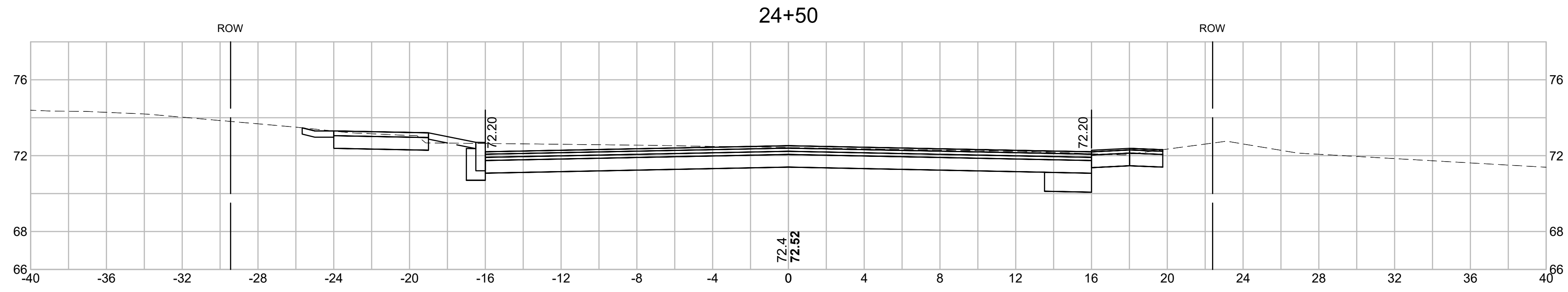
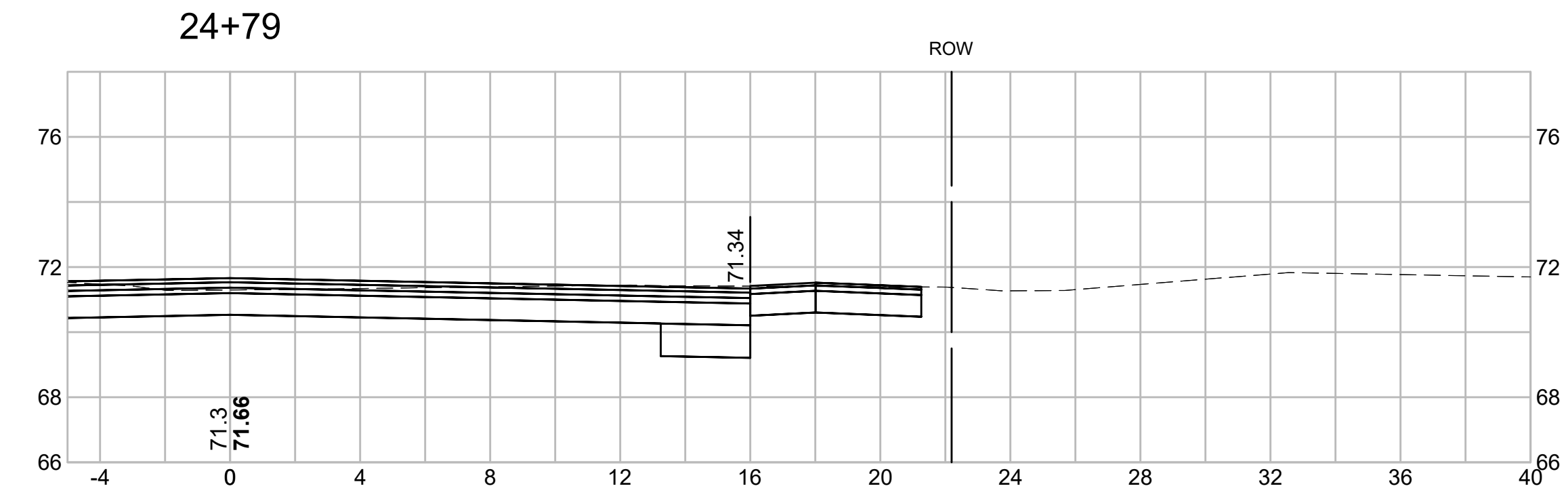
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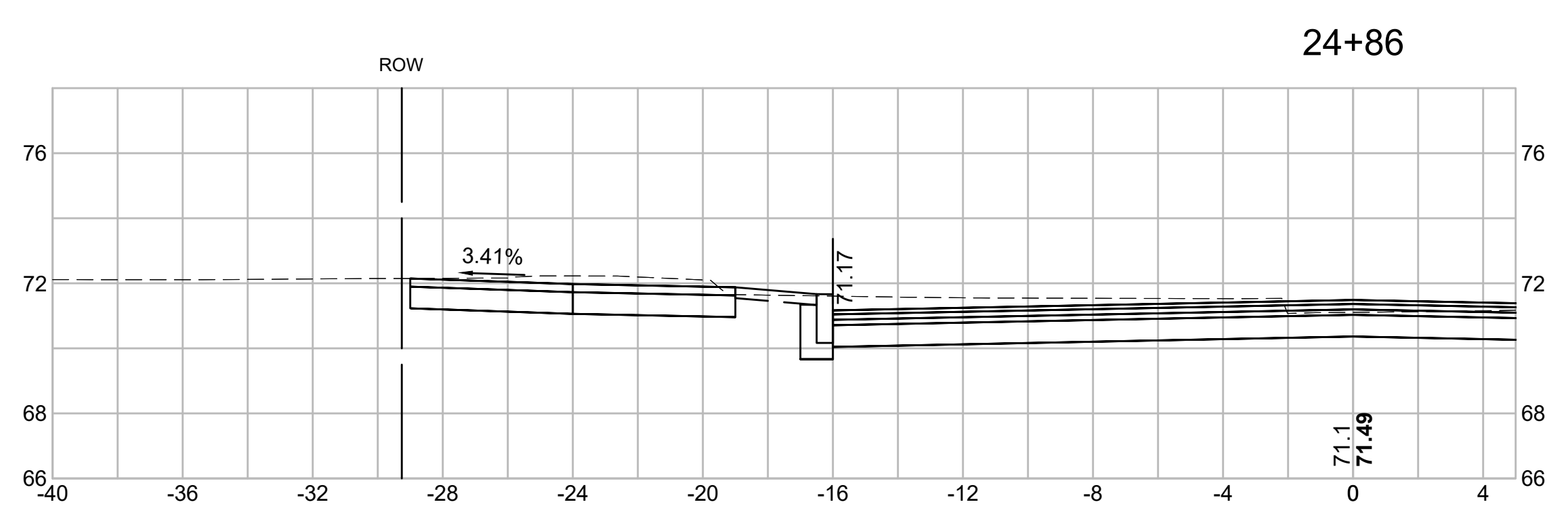
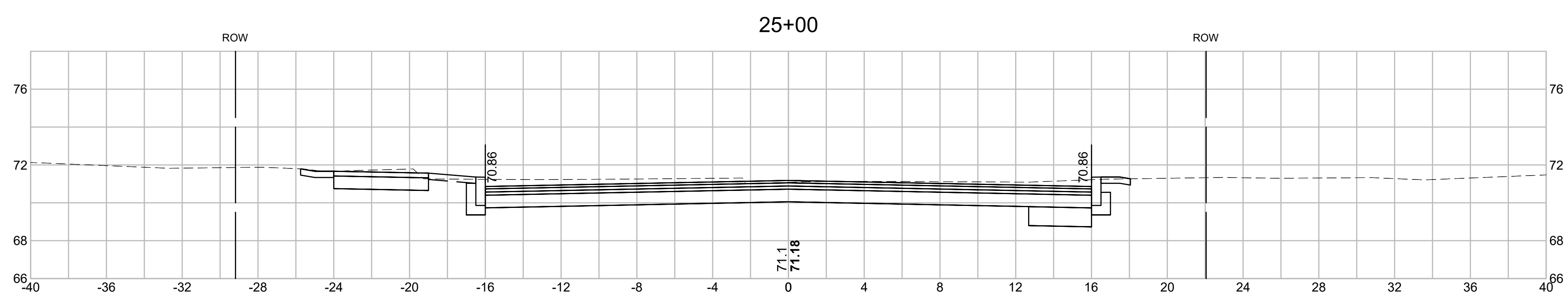
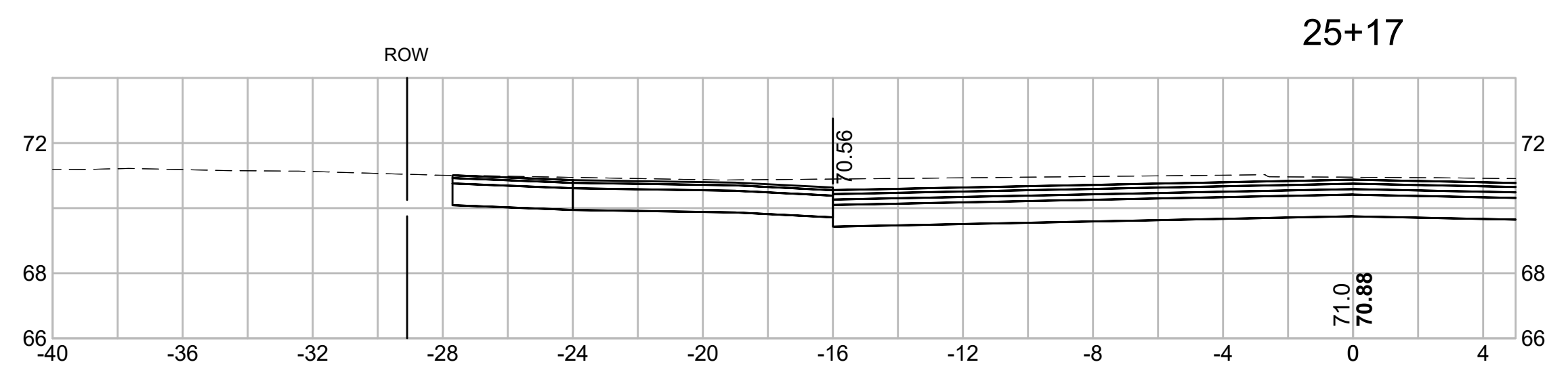
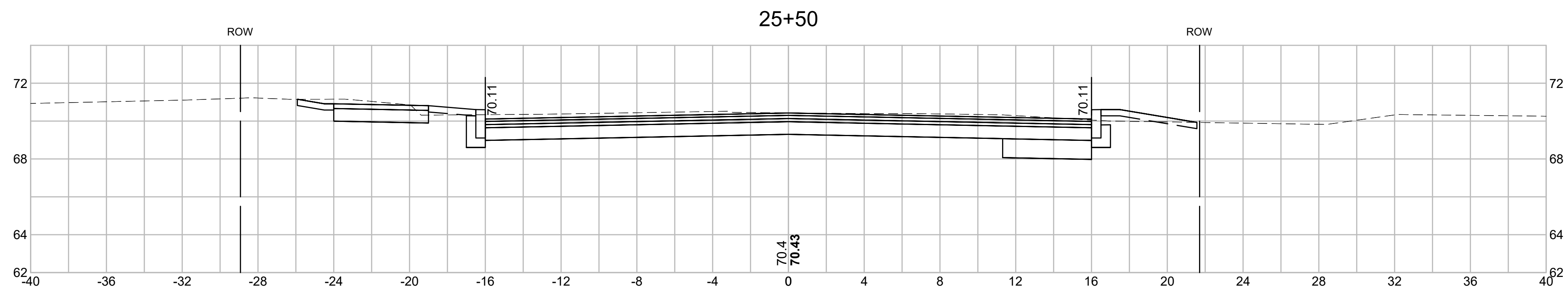
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
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**IMPROVEMENTS TO MAPLEWOOD
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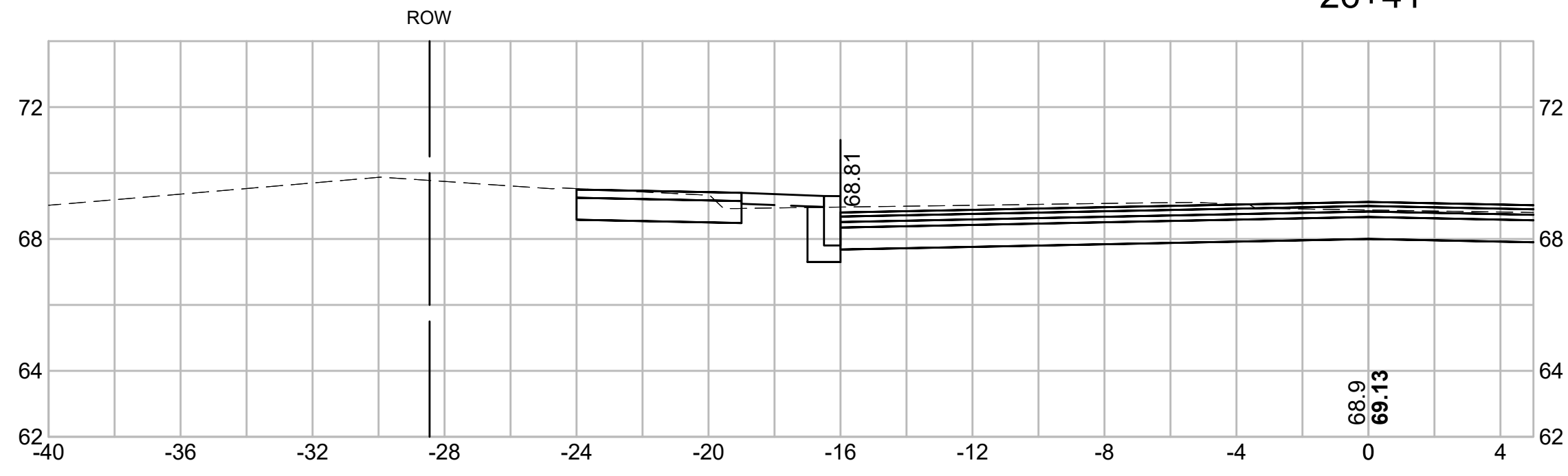
**MAPLEWOOD
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SCALE: 1"=4'

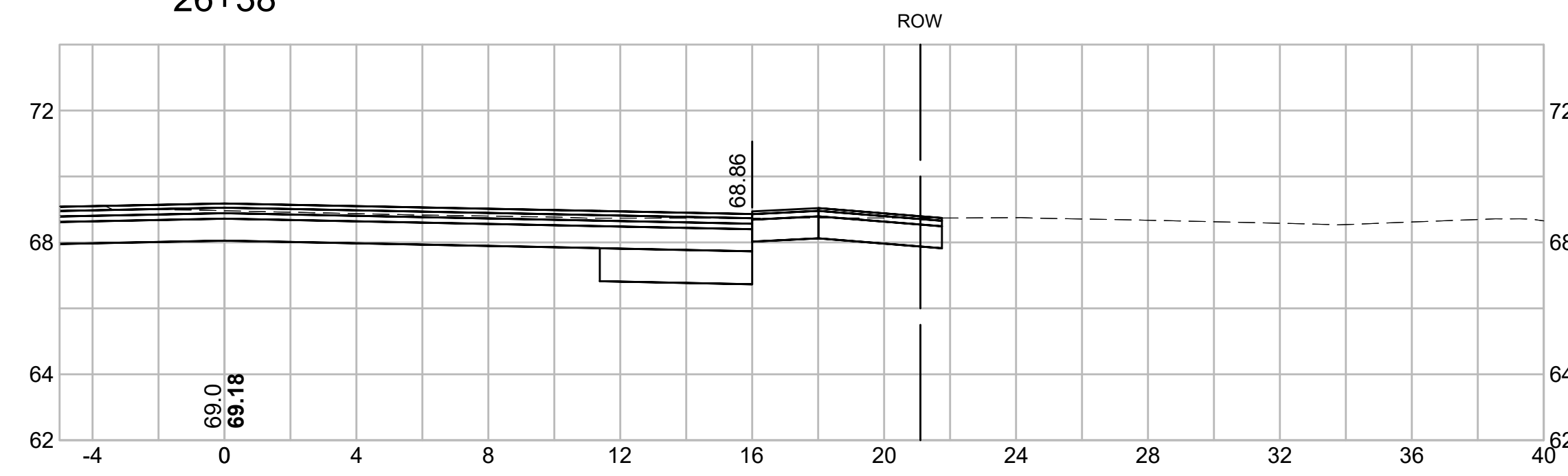
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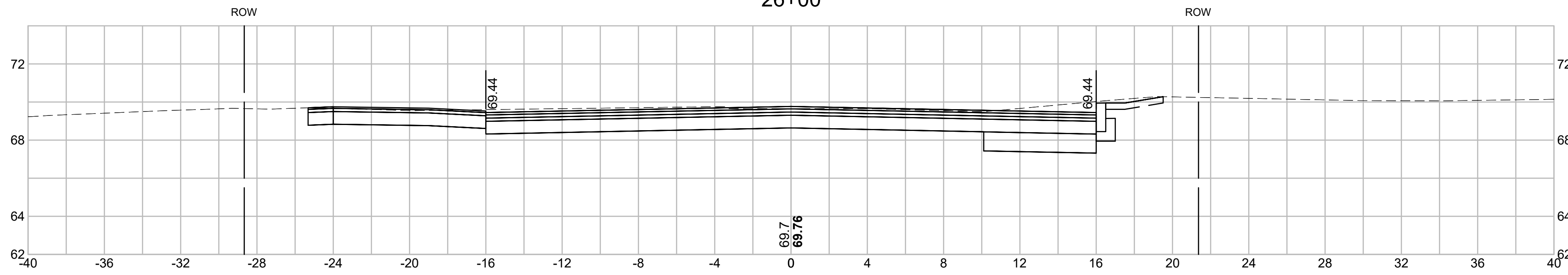
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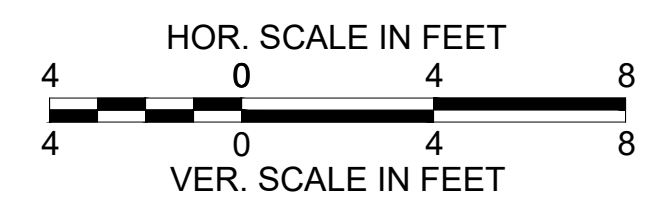
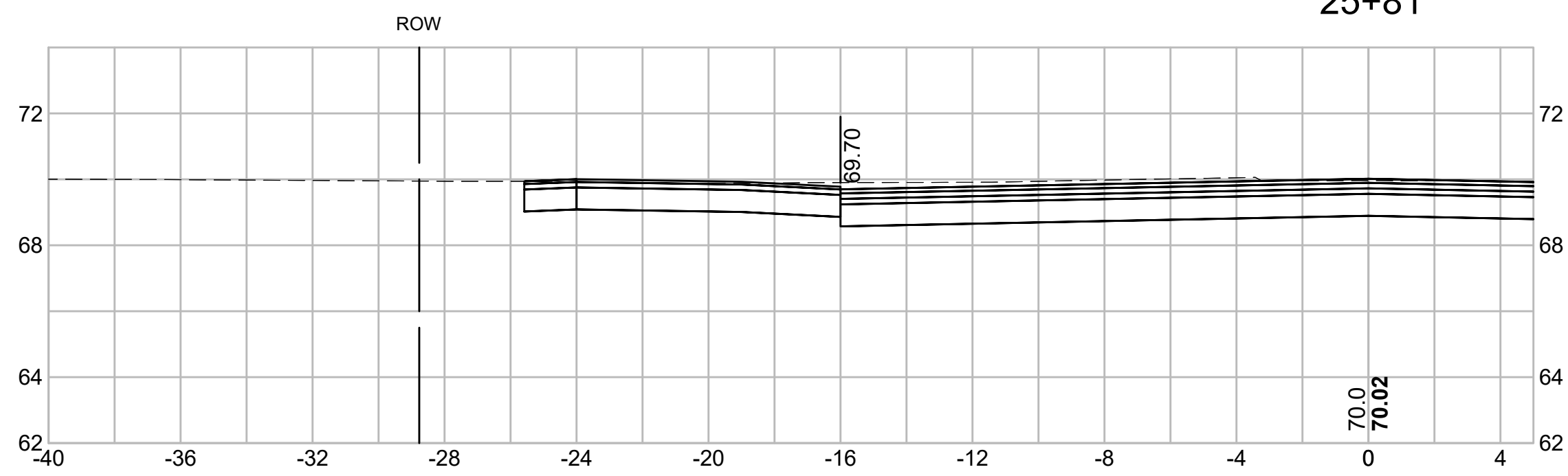
26+38



26+00



25+81





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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018

DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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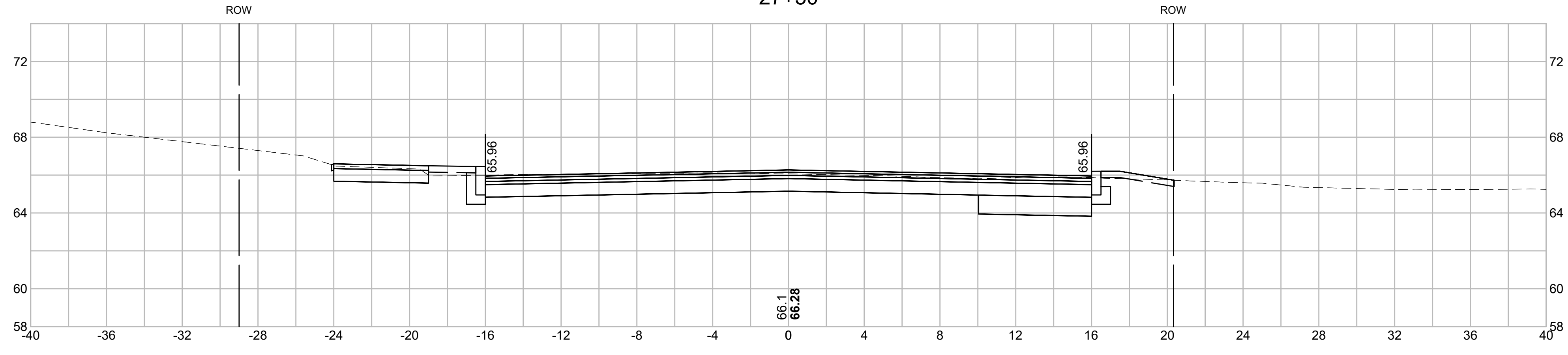
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

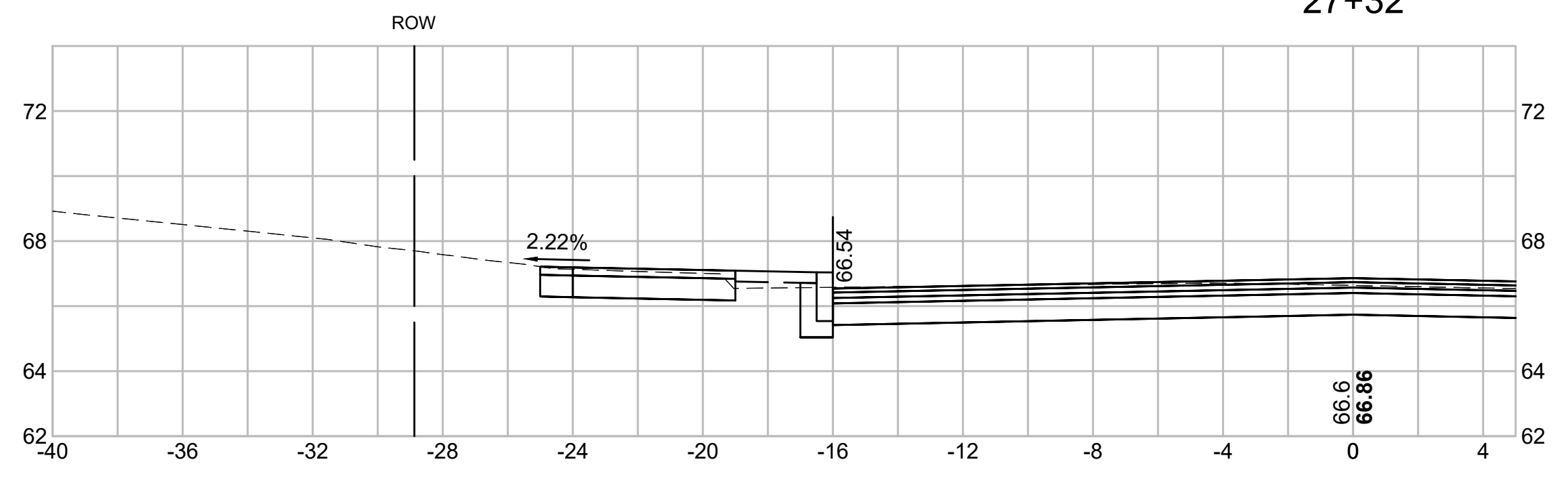
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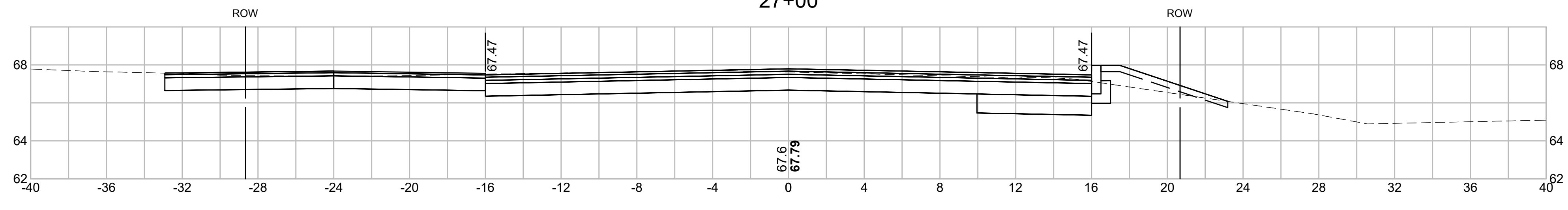
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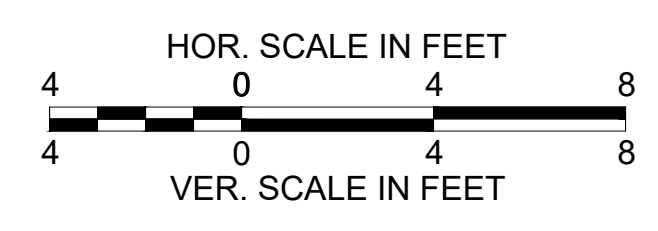
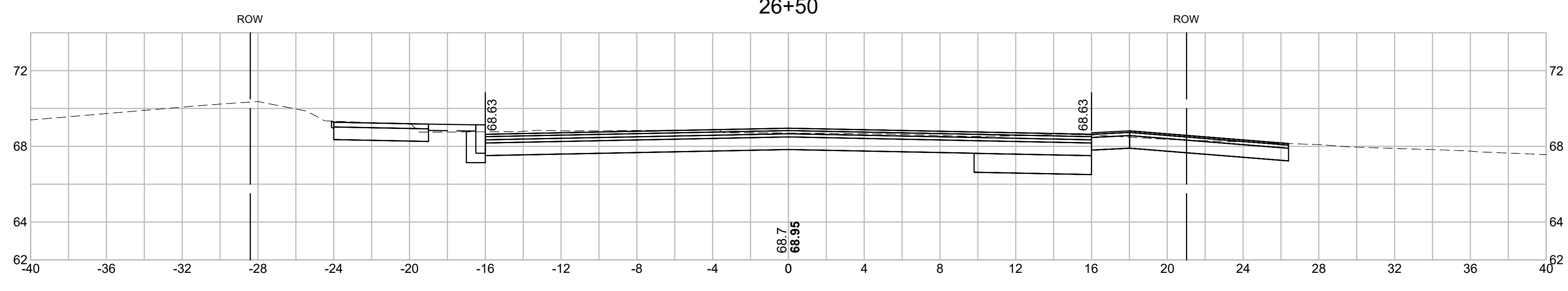
27+32



27+00



26+50





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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018

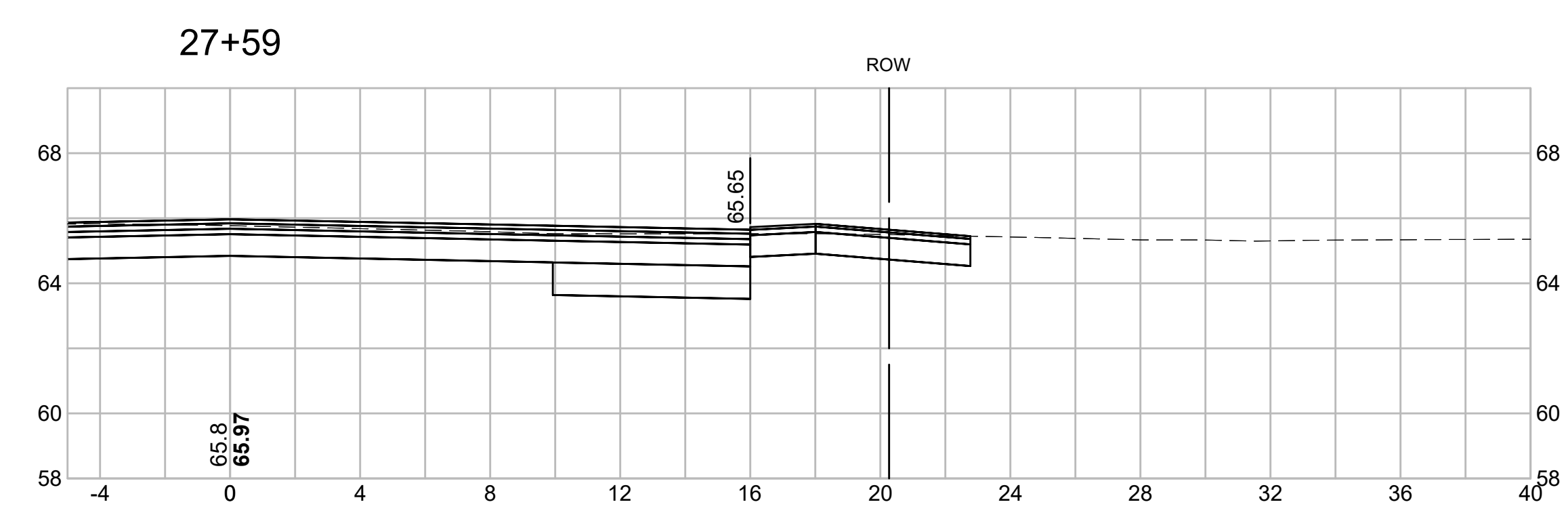
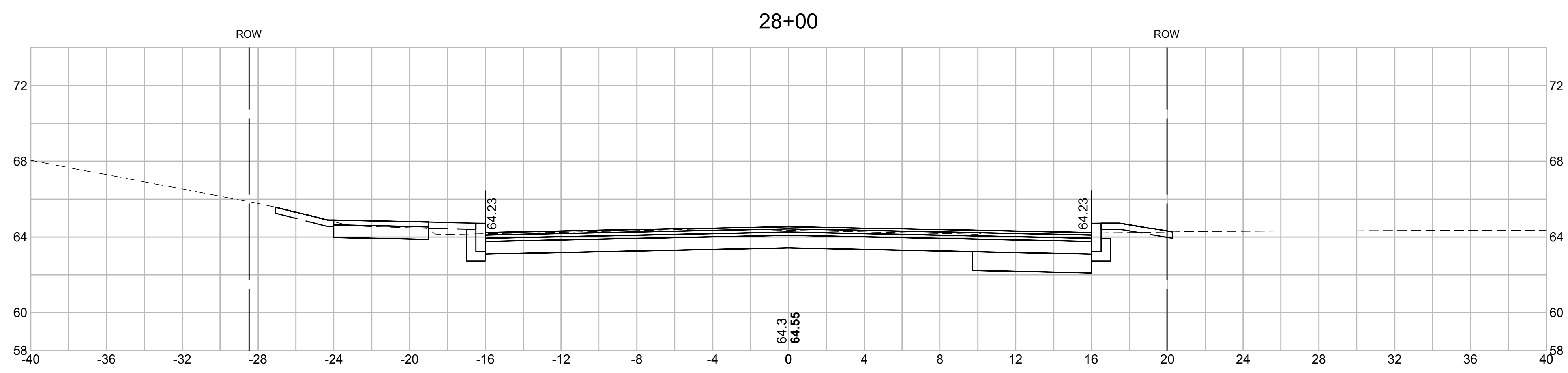
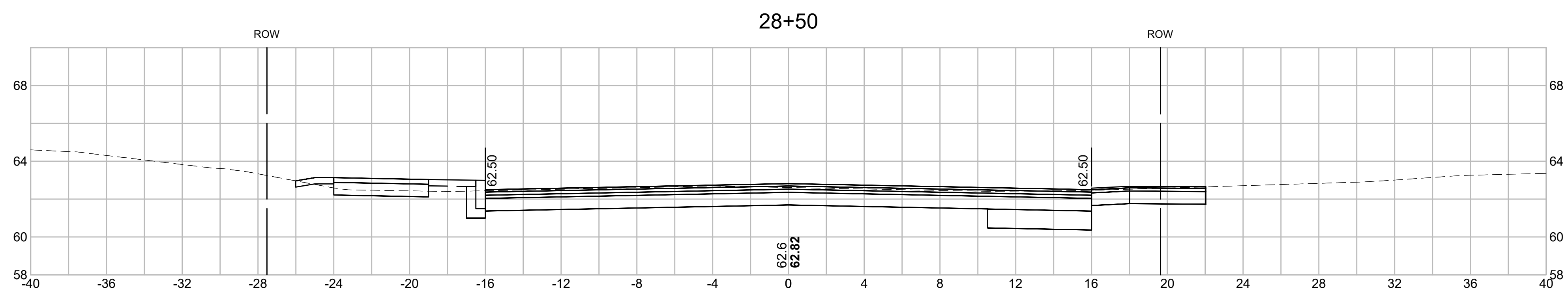
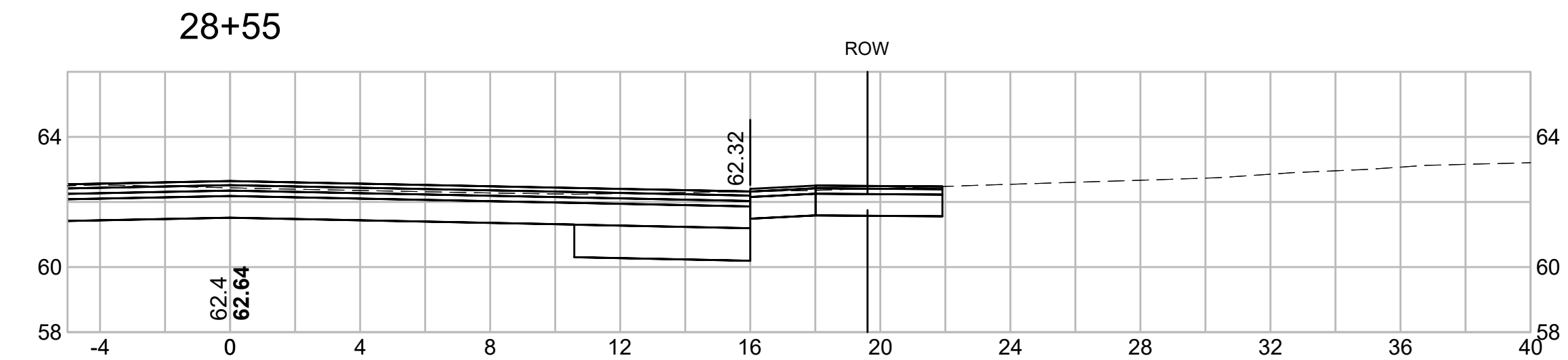
DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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**IMPROVEMENTS TO MAPLEWOOD
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 PORTSMOUTH, NH**

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1/18/2018

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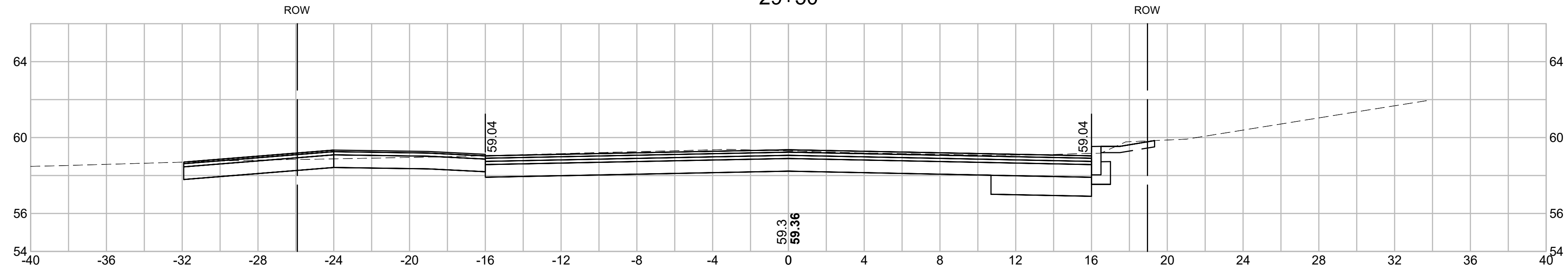
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

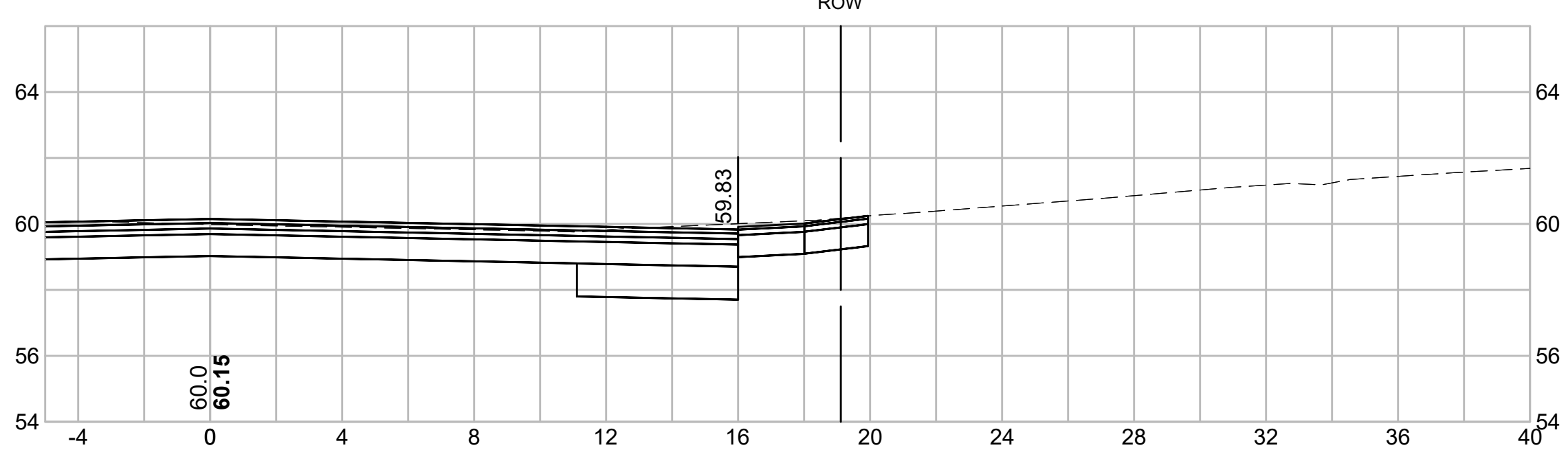
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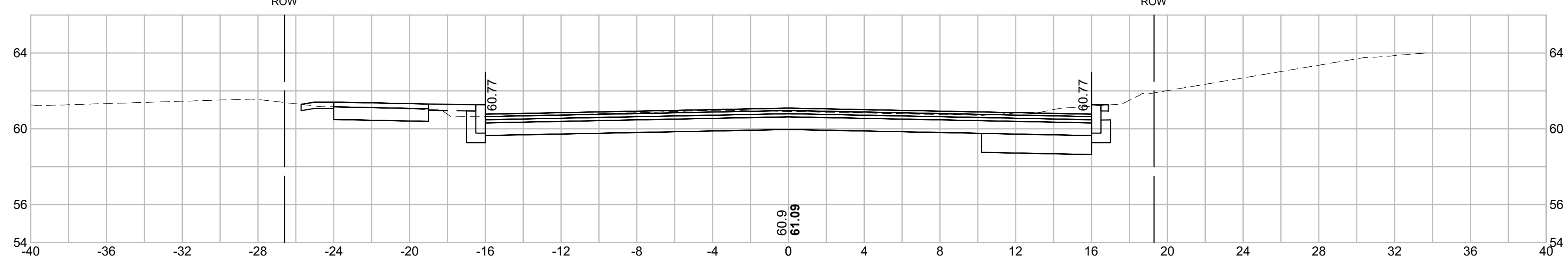
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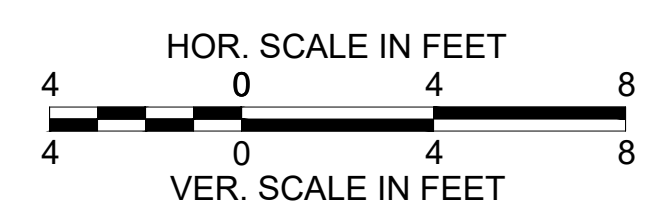
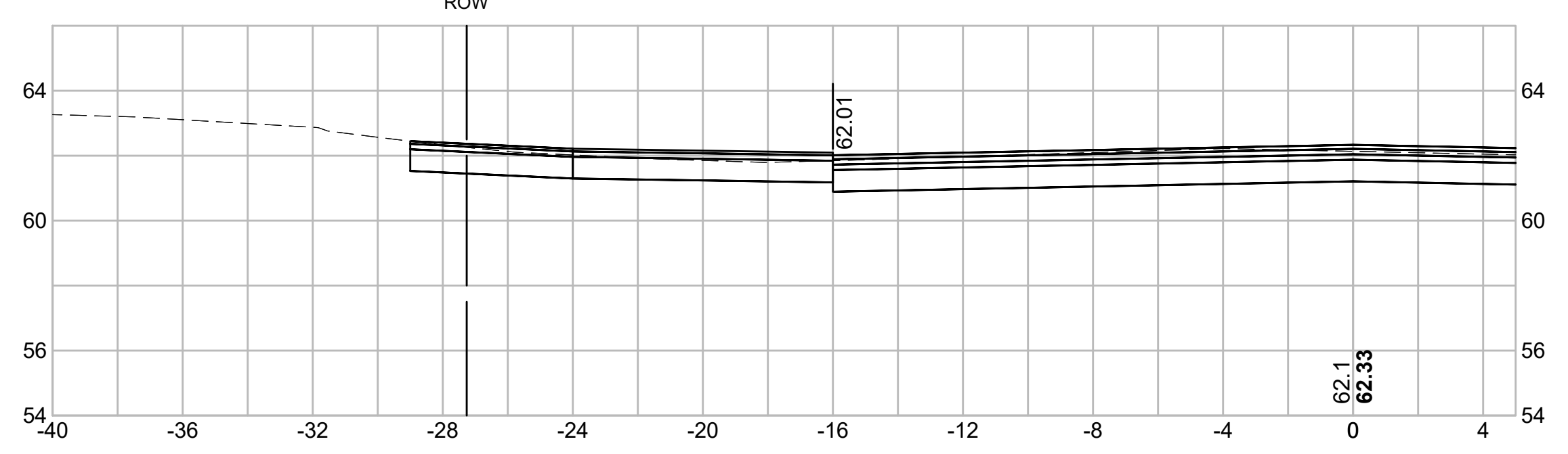
29+27



29+00



28+64





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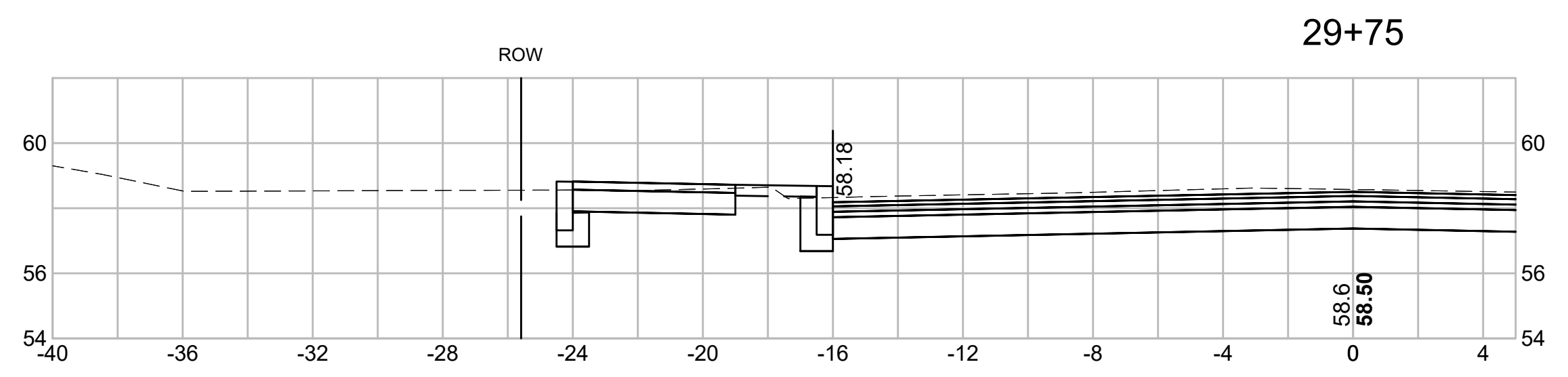
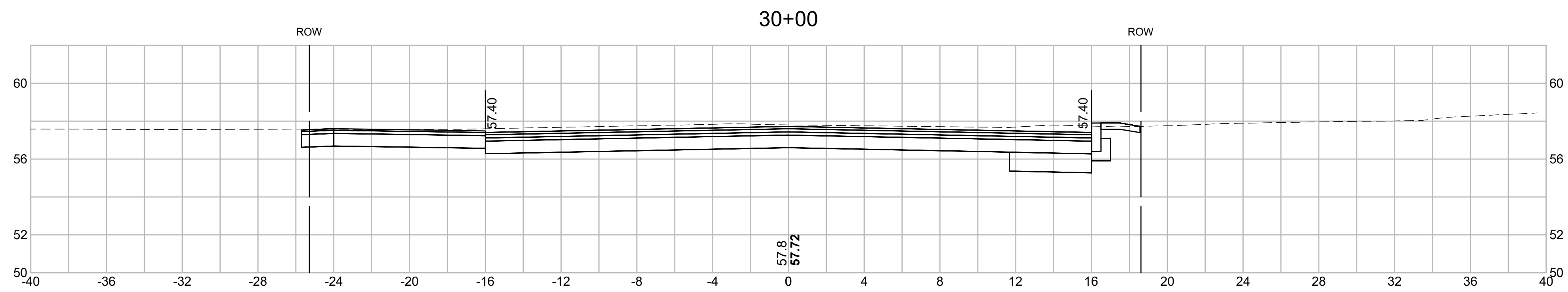
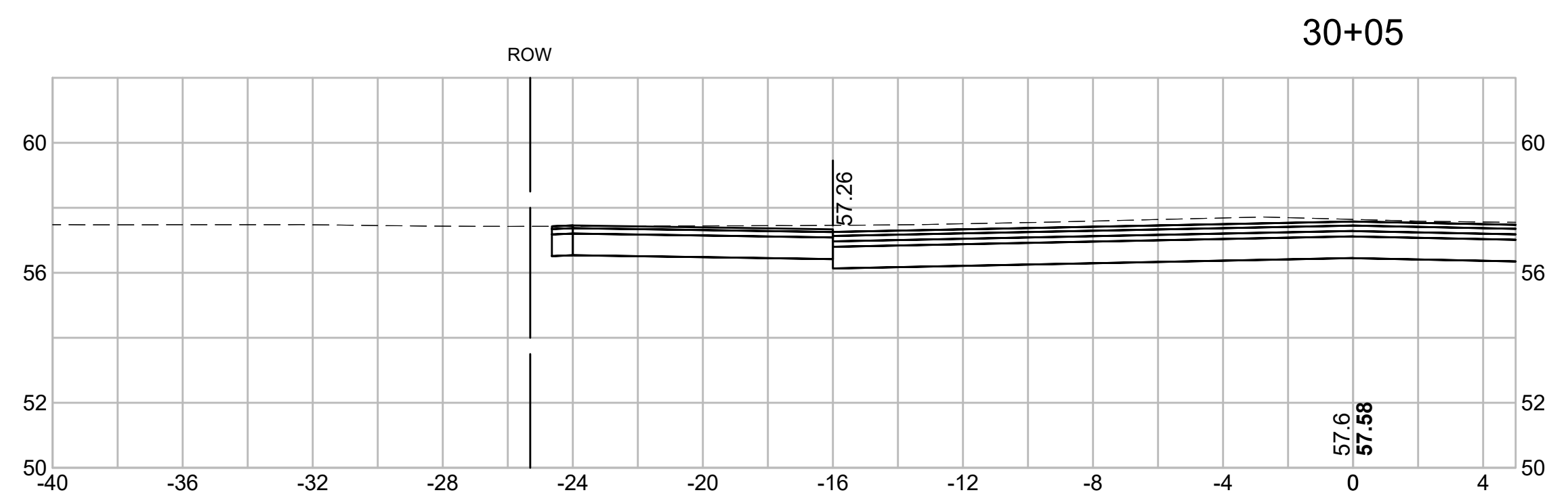
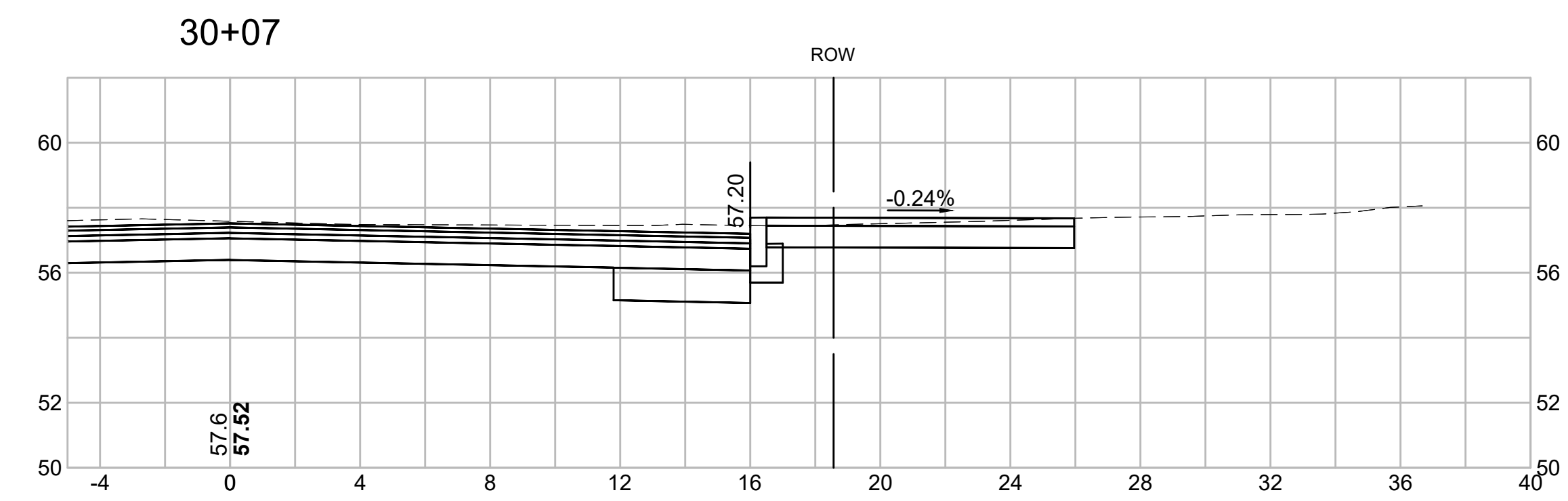
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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1/18/2018
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**MAPLEWOOD
 AVENUE
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 SECTIONS**

SCALE: 1"=4'
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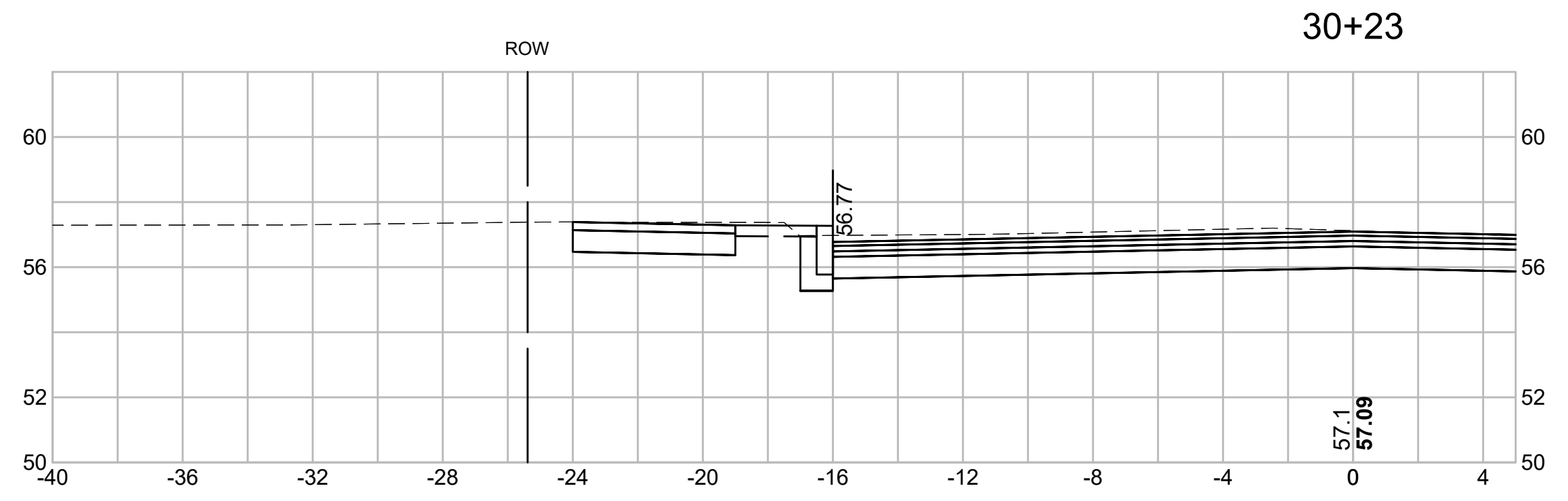
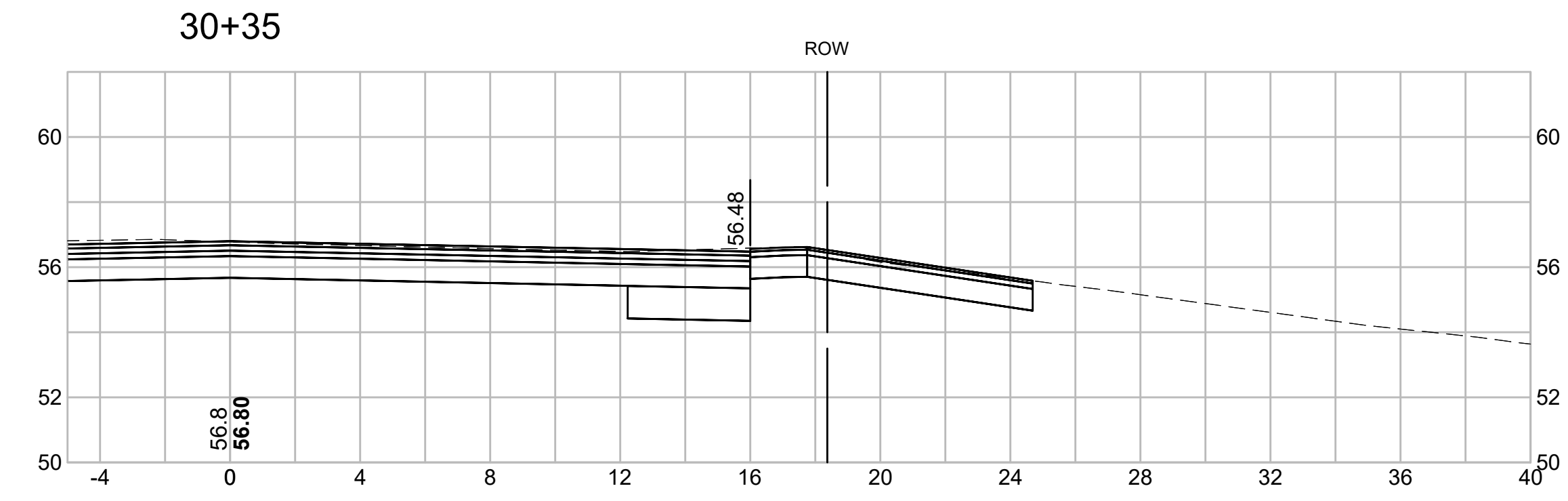
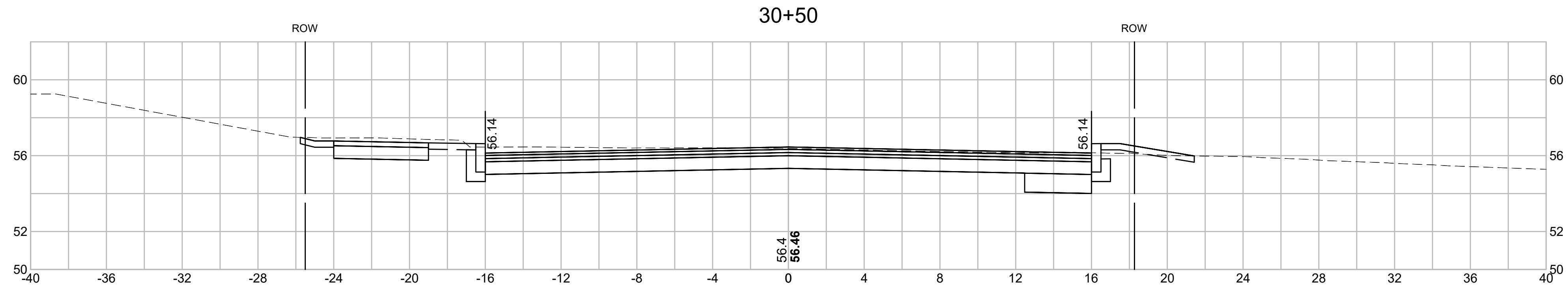
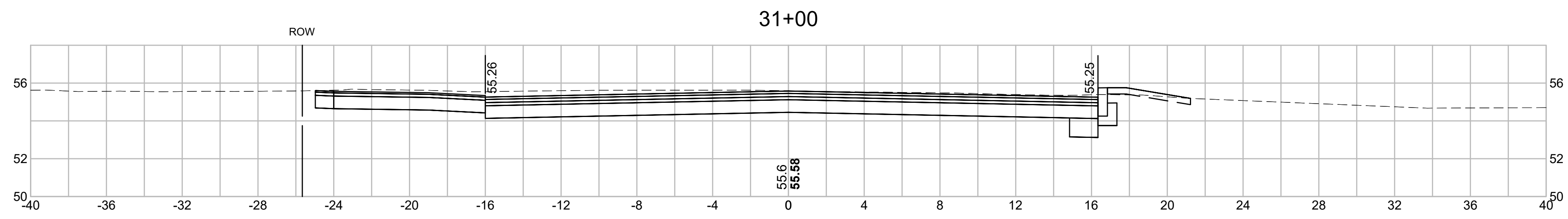
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
 AVENUE
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 SECTIONS**

SCALE: 1"=4'
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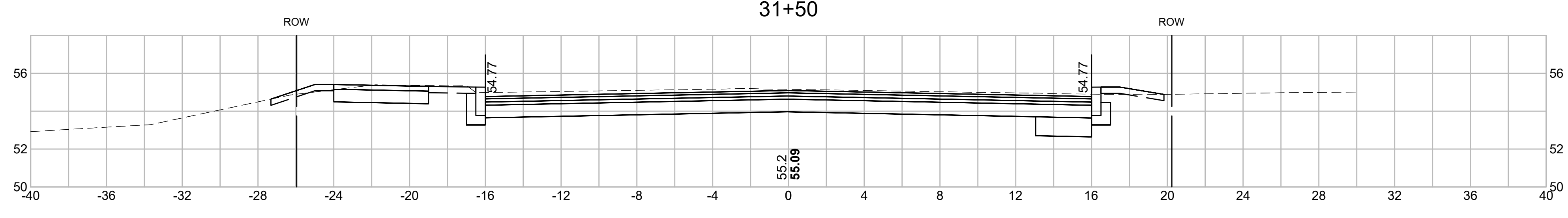
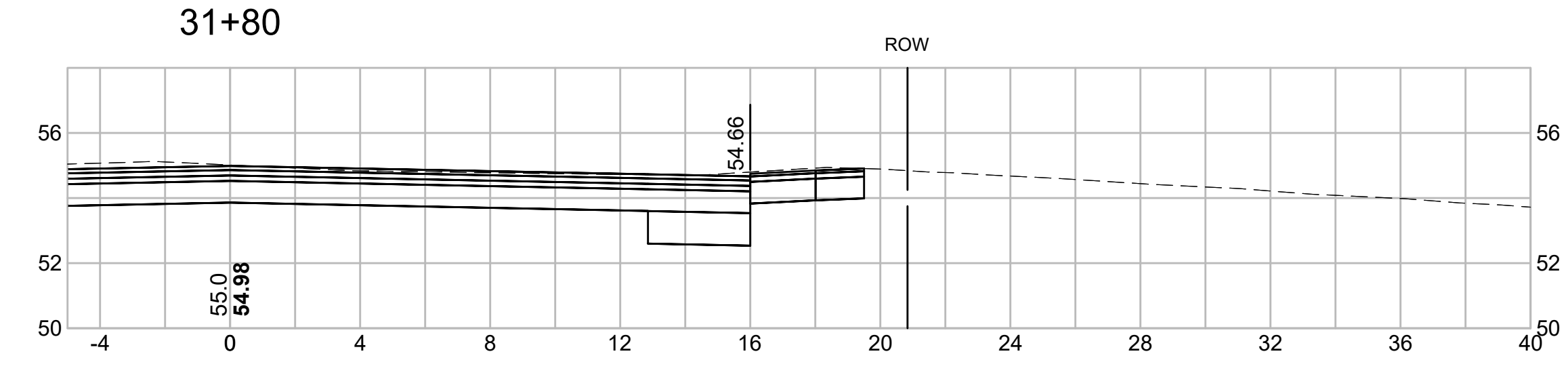
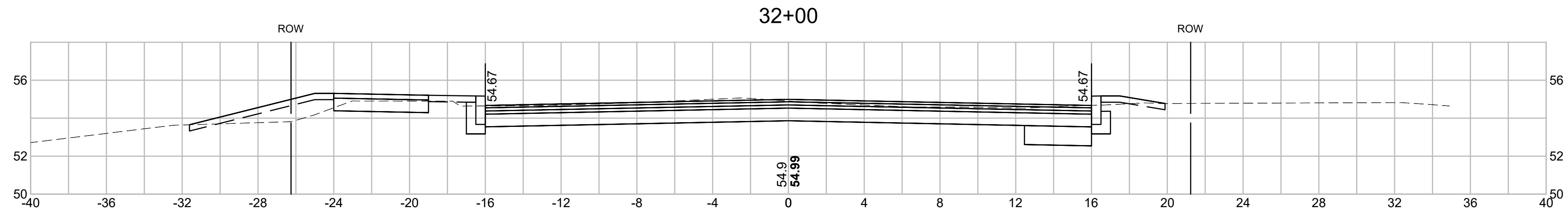
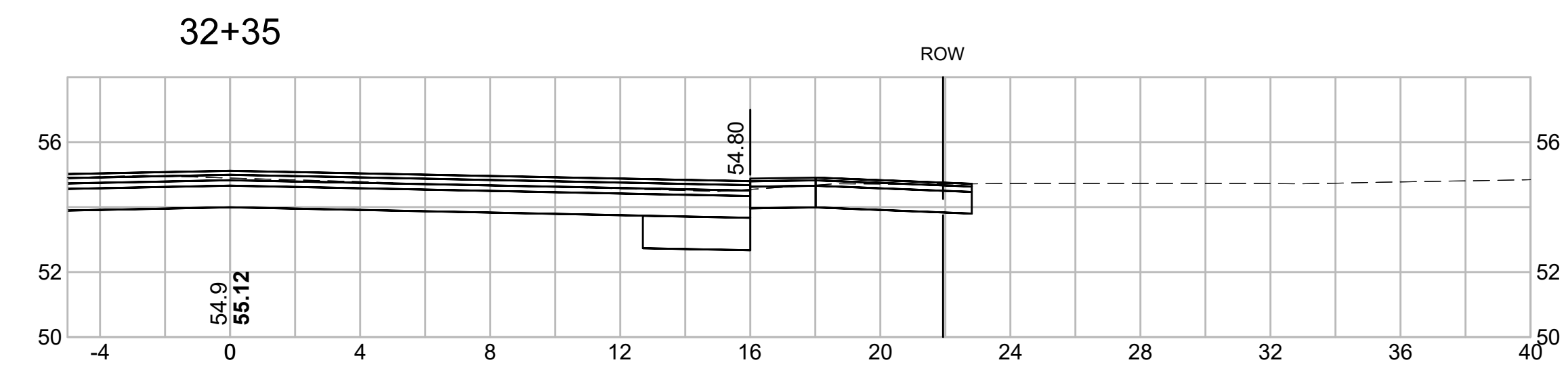
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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 AVENUE
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 SECTIONS**

SCALE: 1"=4'
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 680 PEVERLY HILL ROAD
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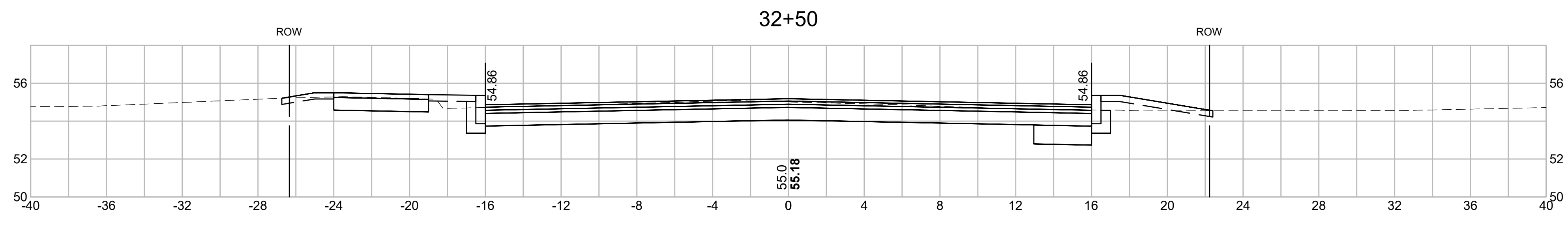
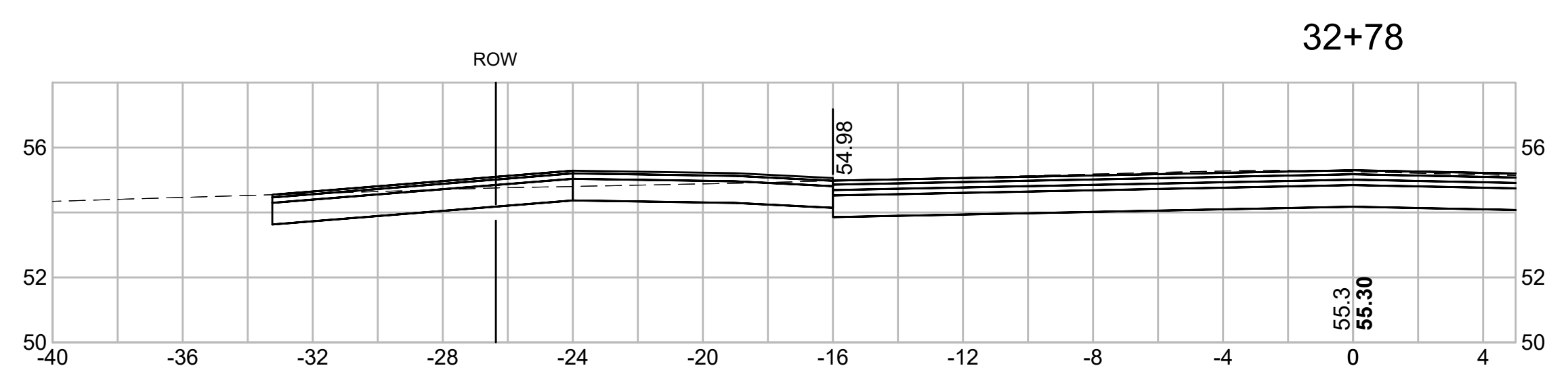
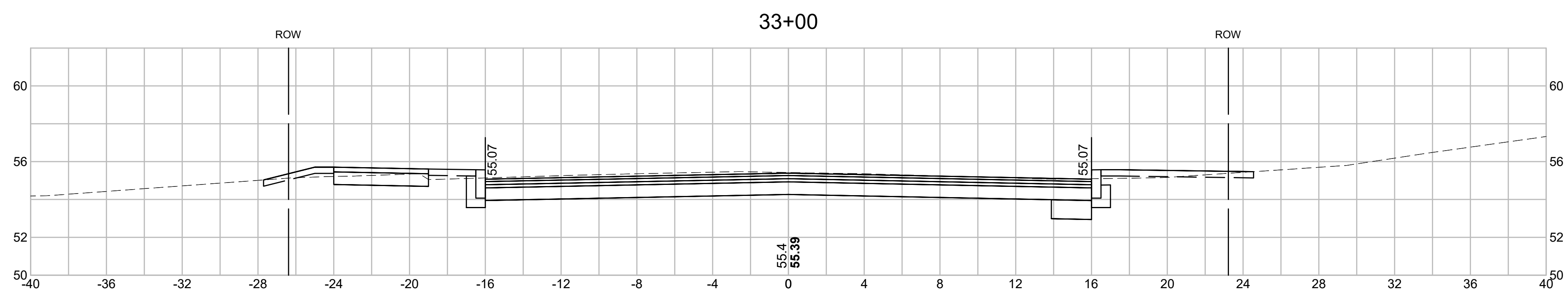
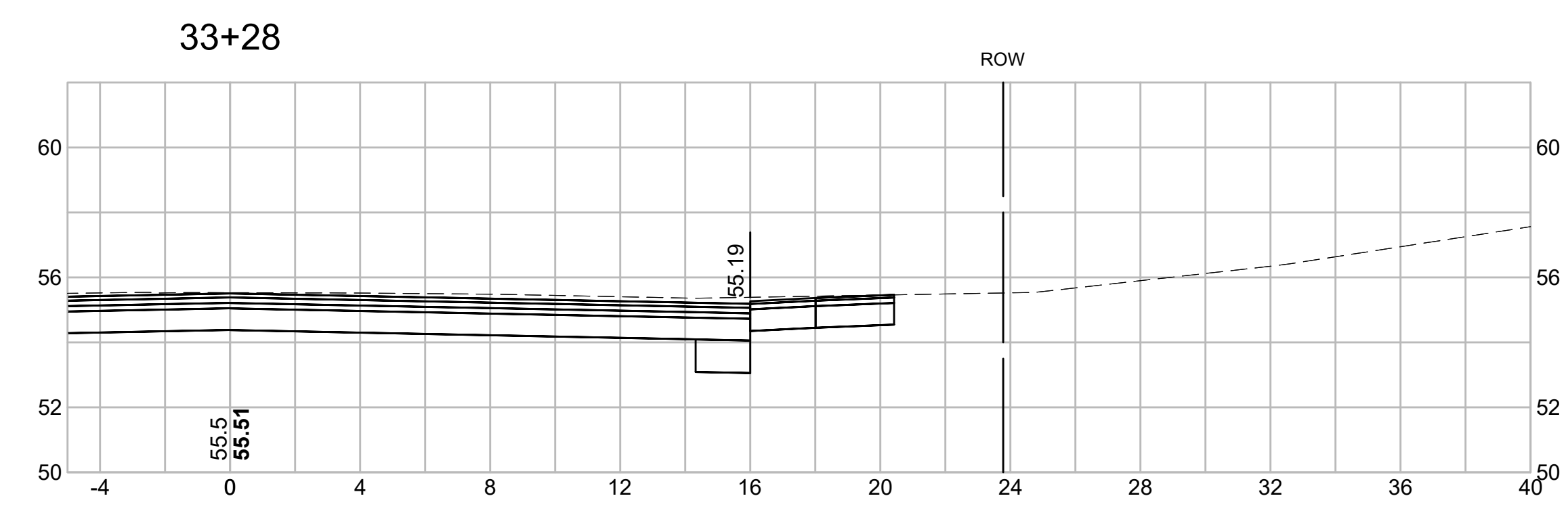
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
 AVENUE
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SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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1/18/2018

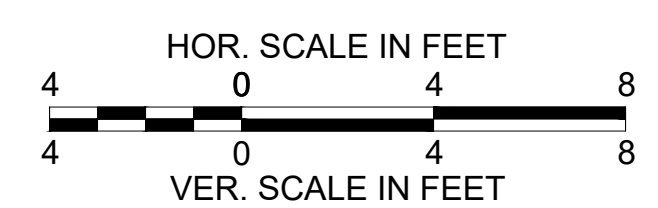
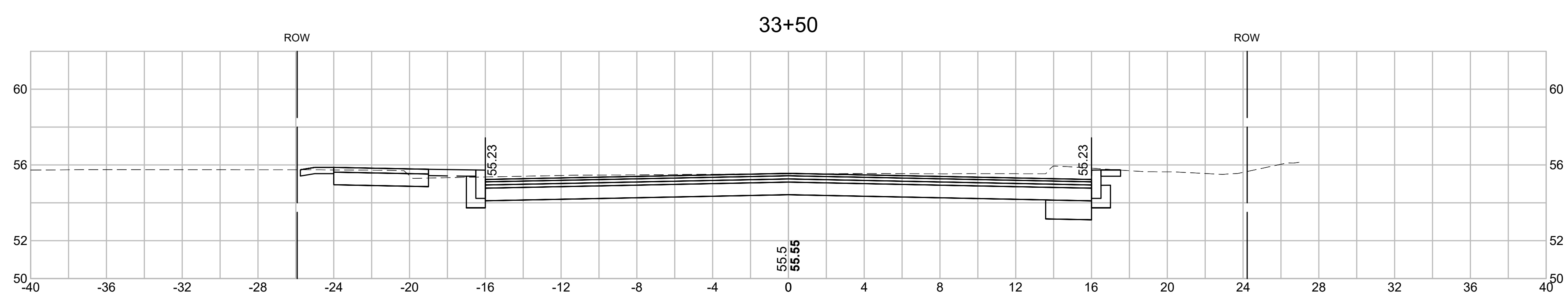
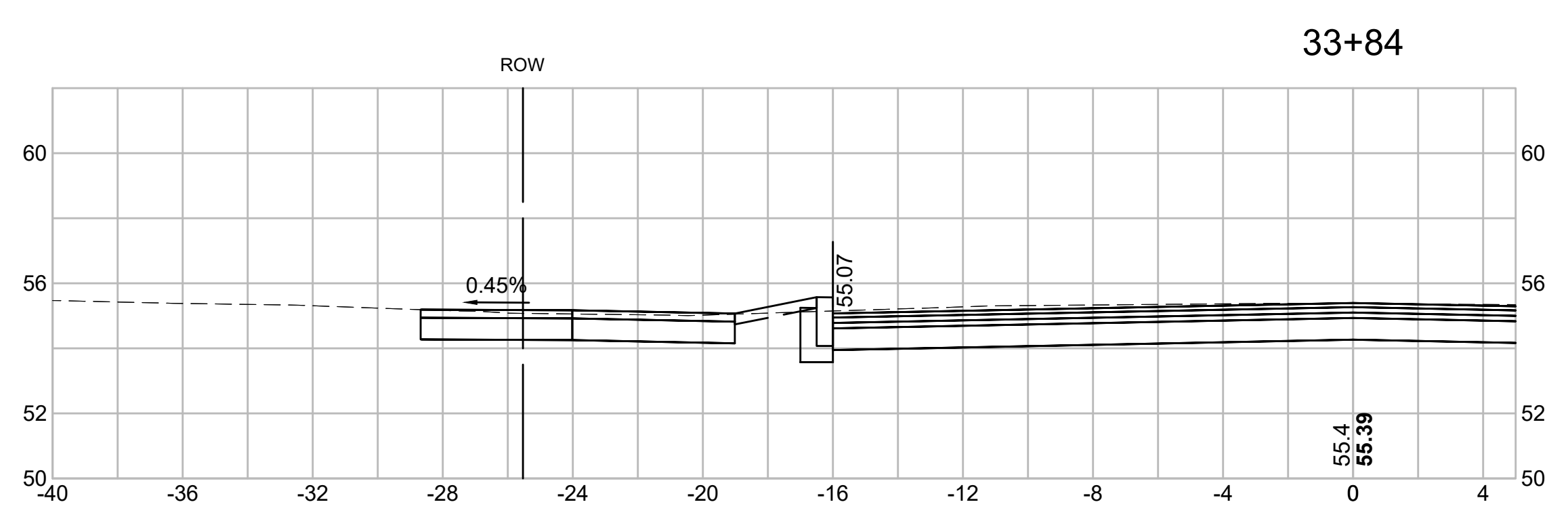
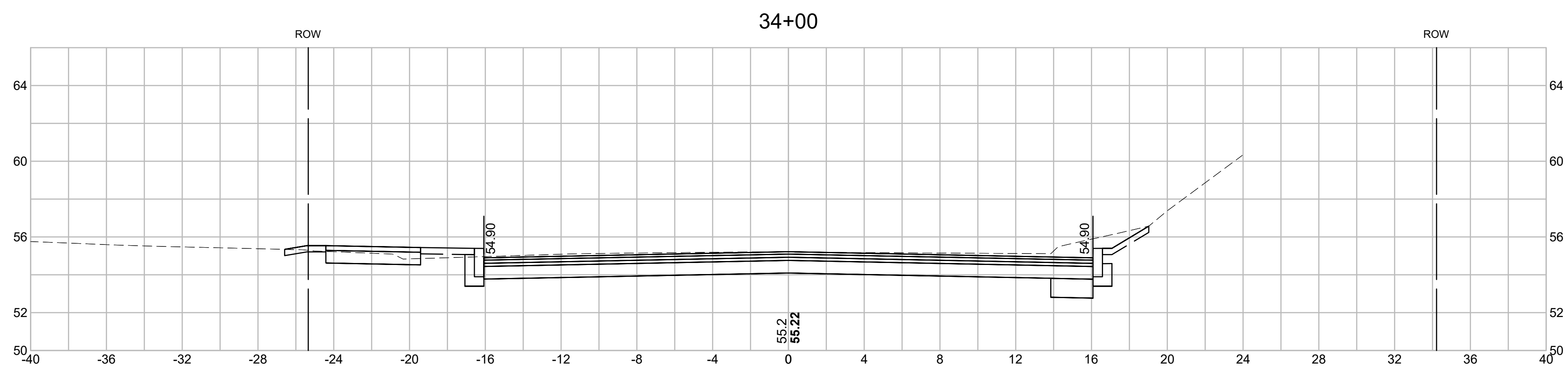
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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 680 PEVERLY HILL ROAD
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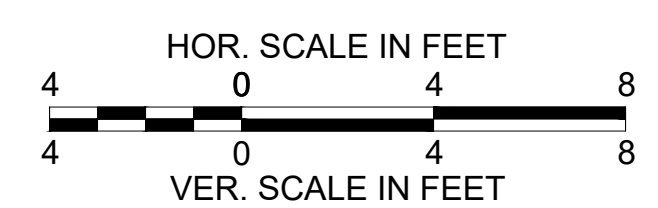
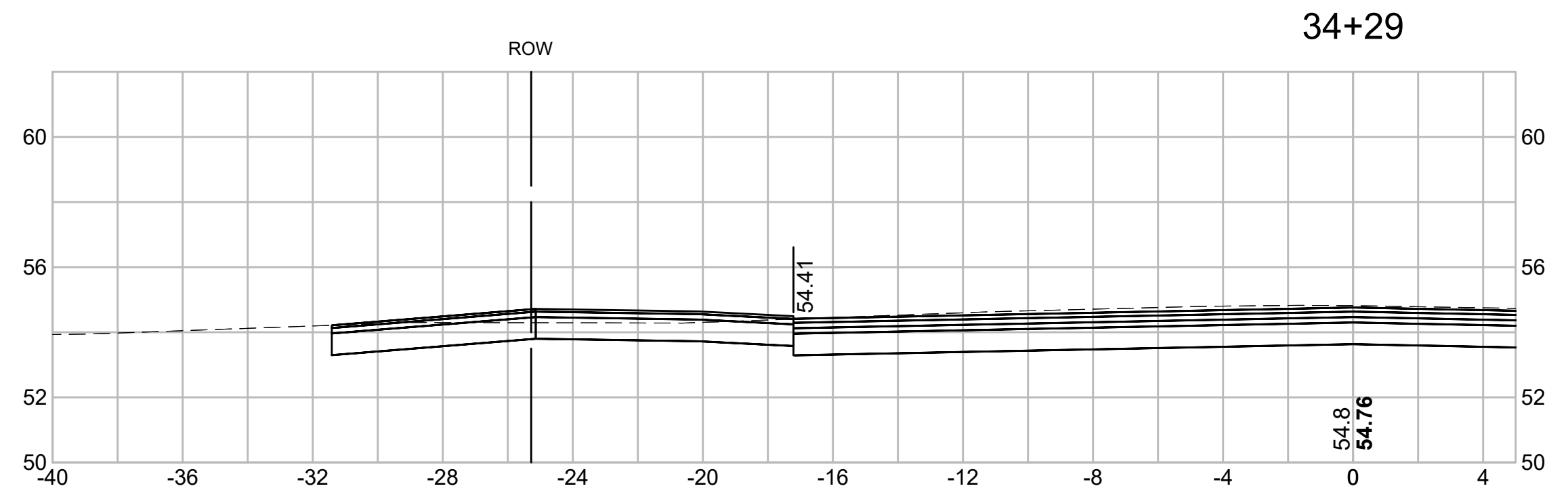
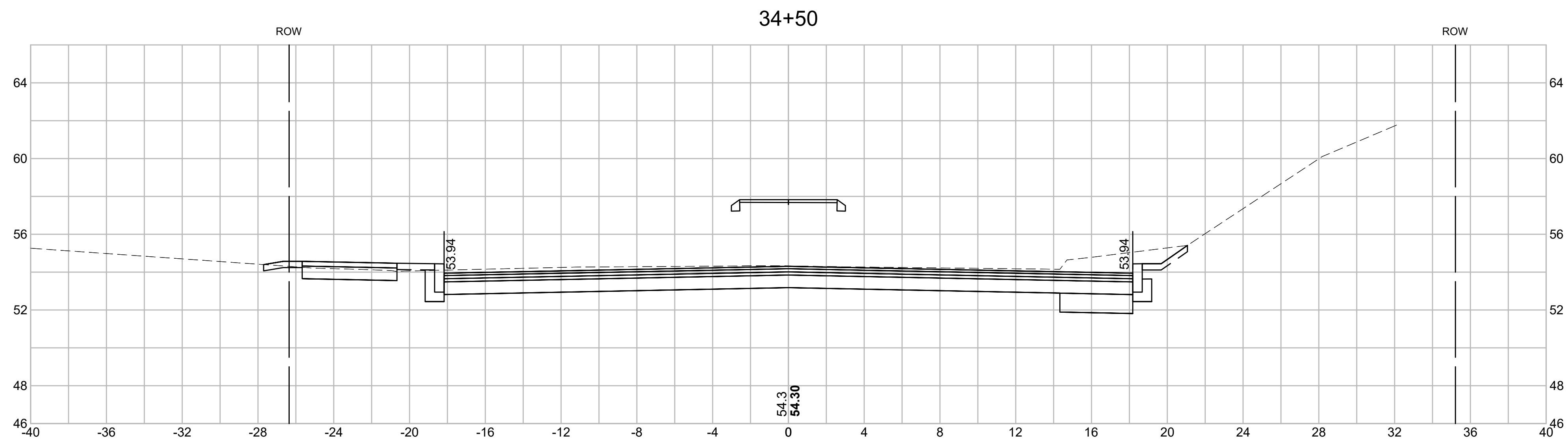
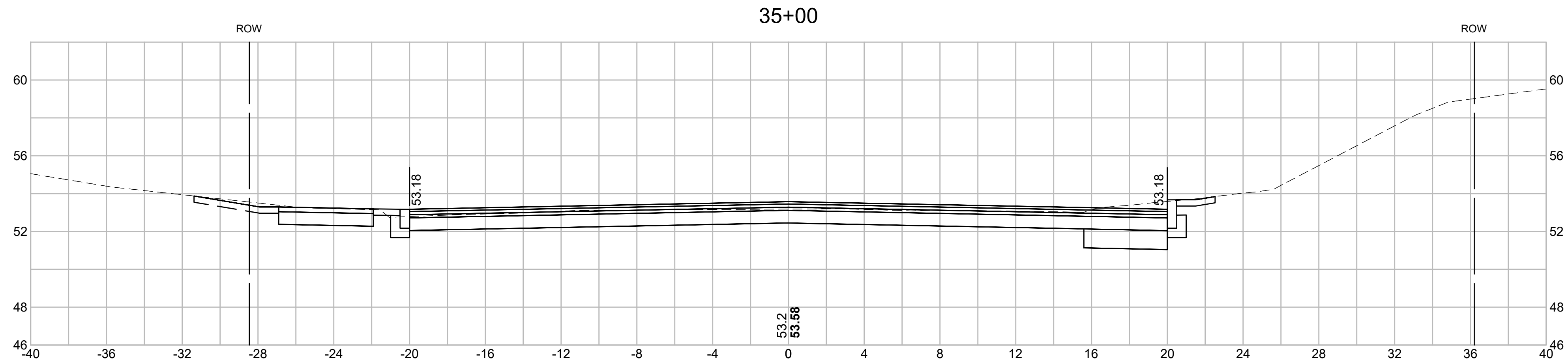
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

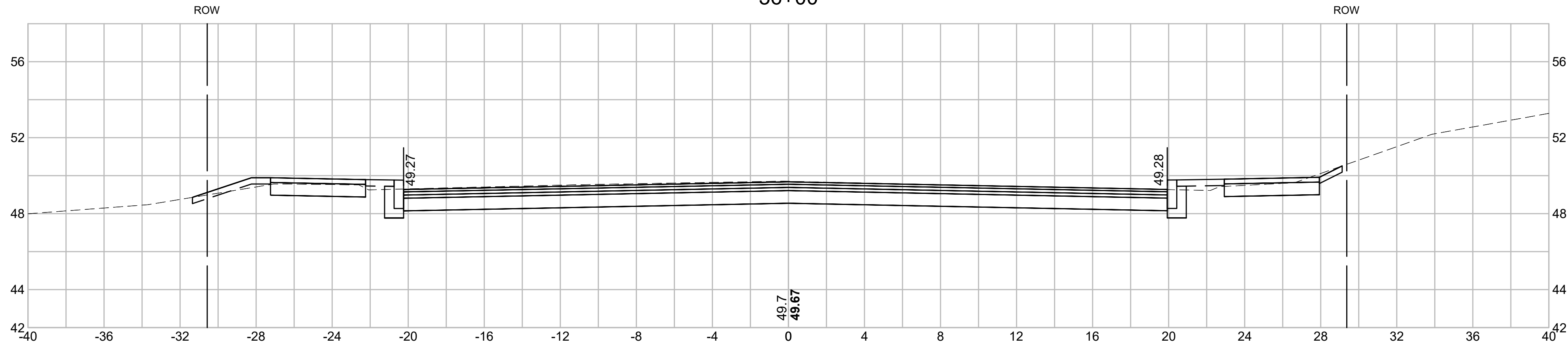
1/18/2018
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

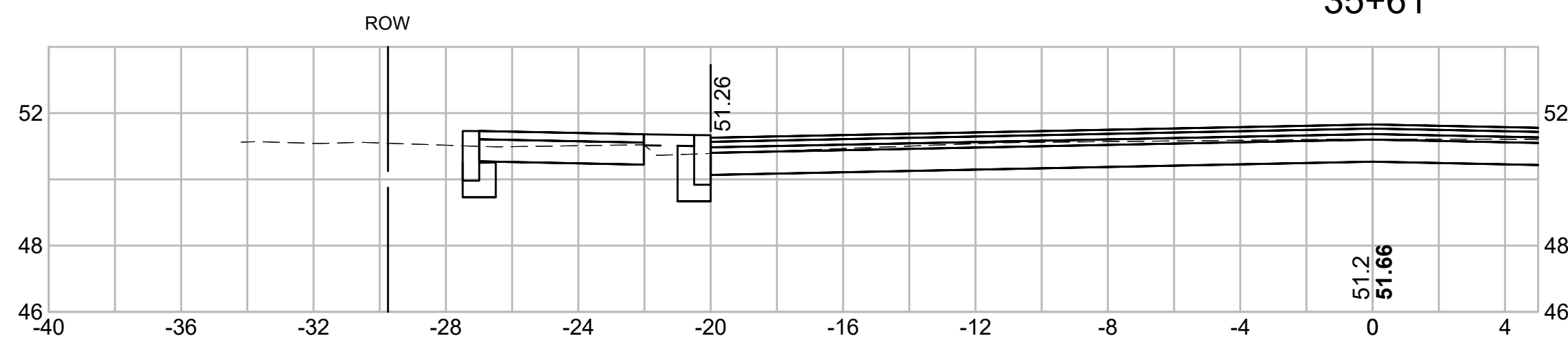
SCALE: 1"=4'
 2015086.00
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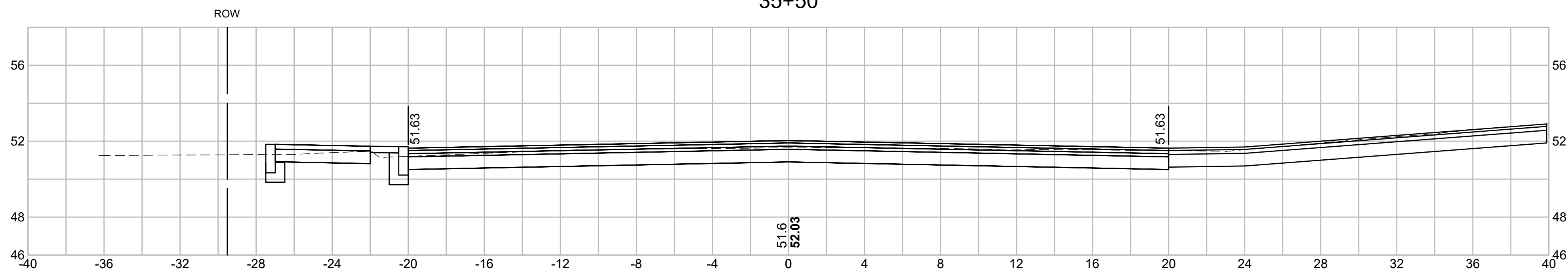
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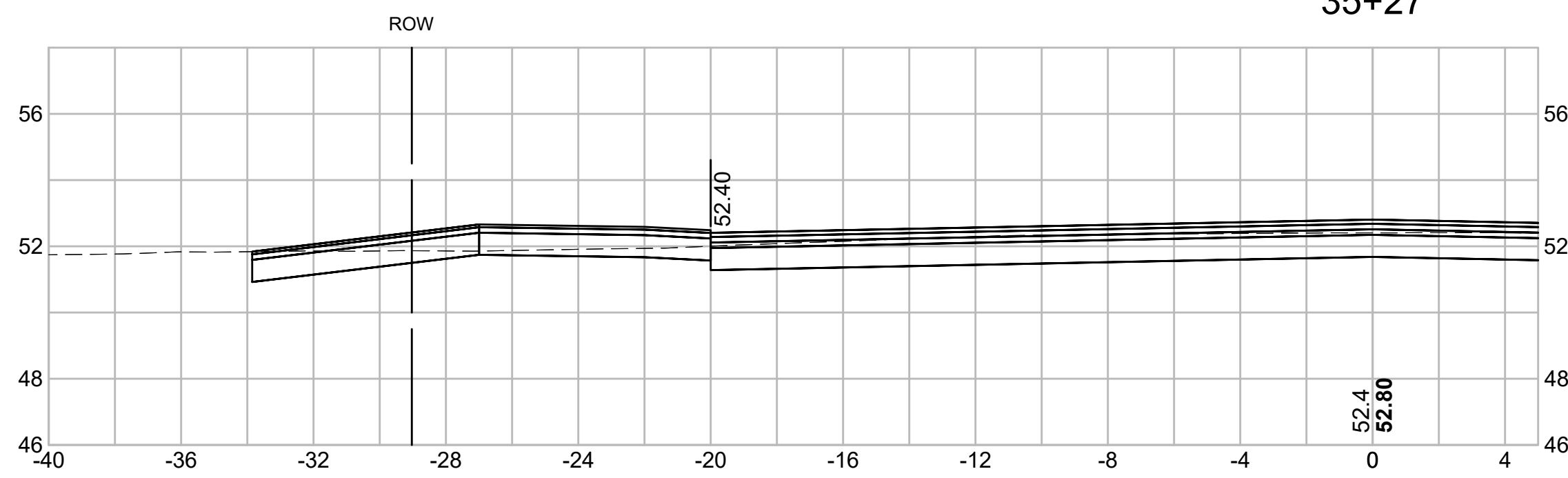
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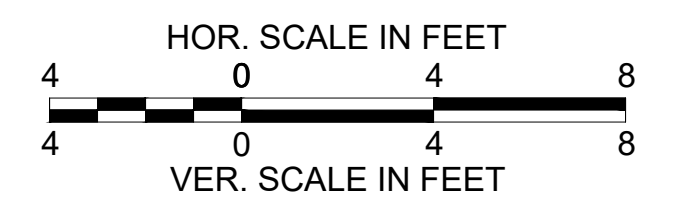
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35+27

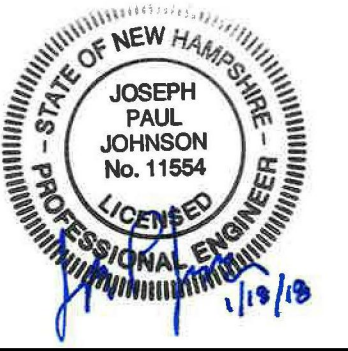


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GPI Greenman-Pedersen, Inc.
 Engineering & Construction Services
 21 Daniel Street, Second Floor, Portsmouth, NH 03801
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
 AVENUE
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 SECTIONS**

SCALE: 1"=4'
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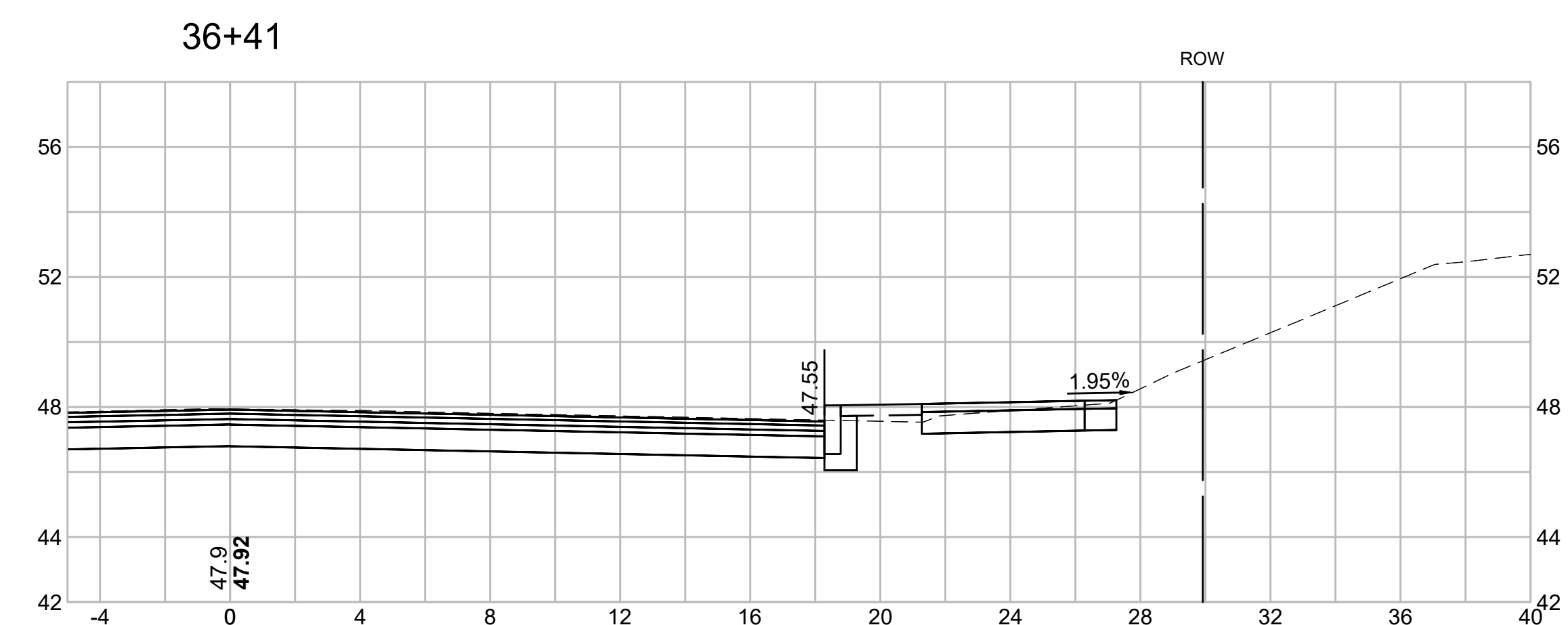
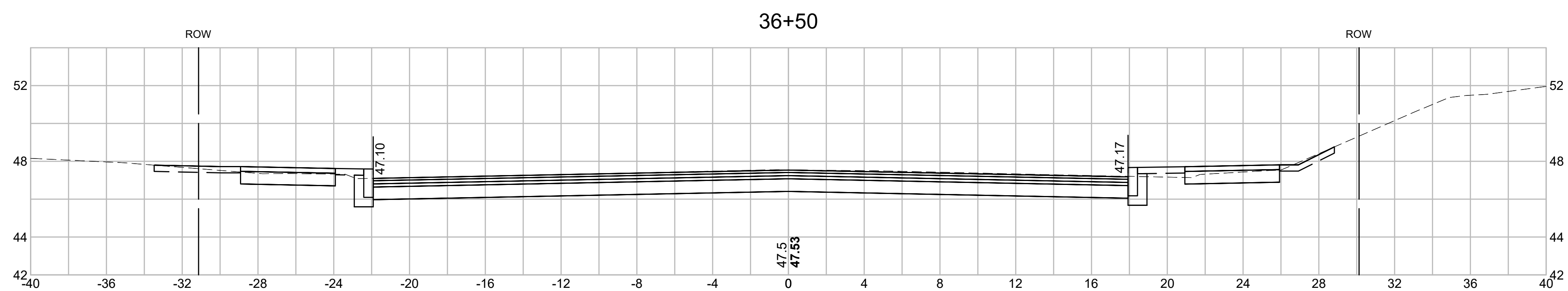
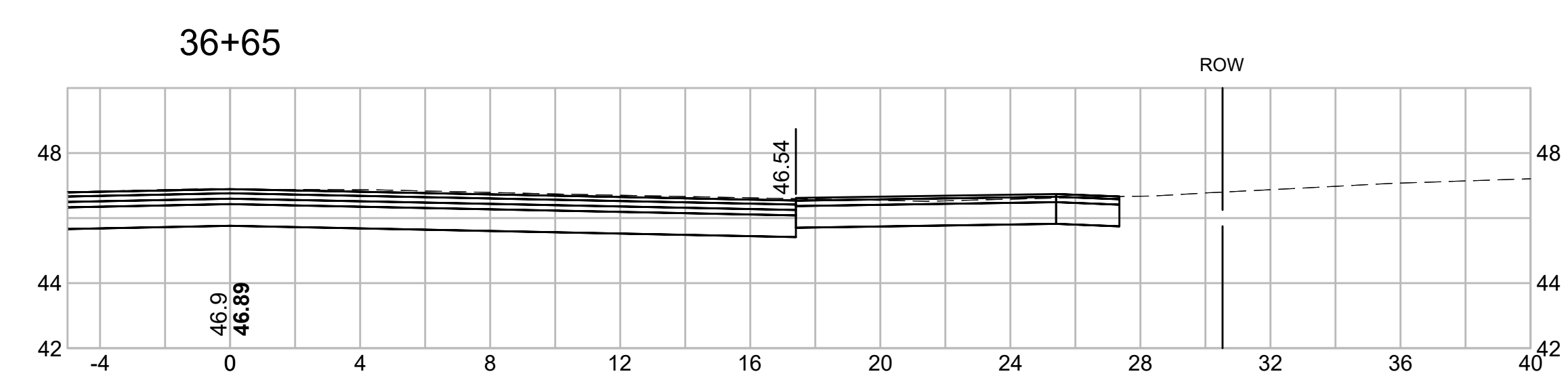
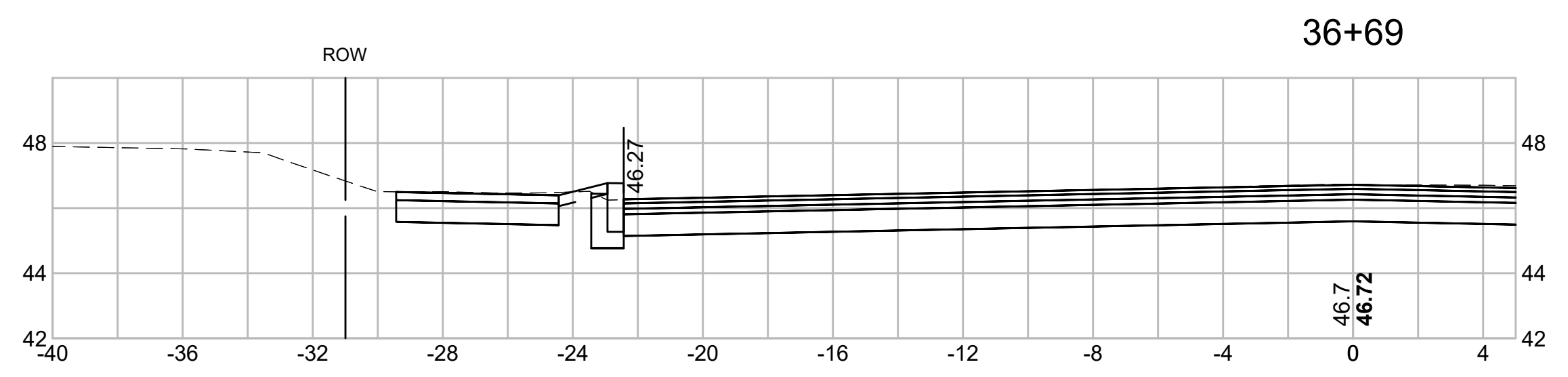
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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**MAPLEWOOD
 AVENUE
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SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
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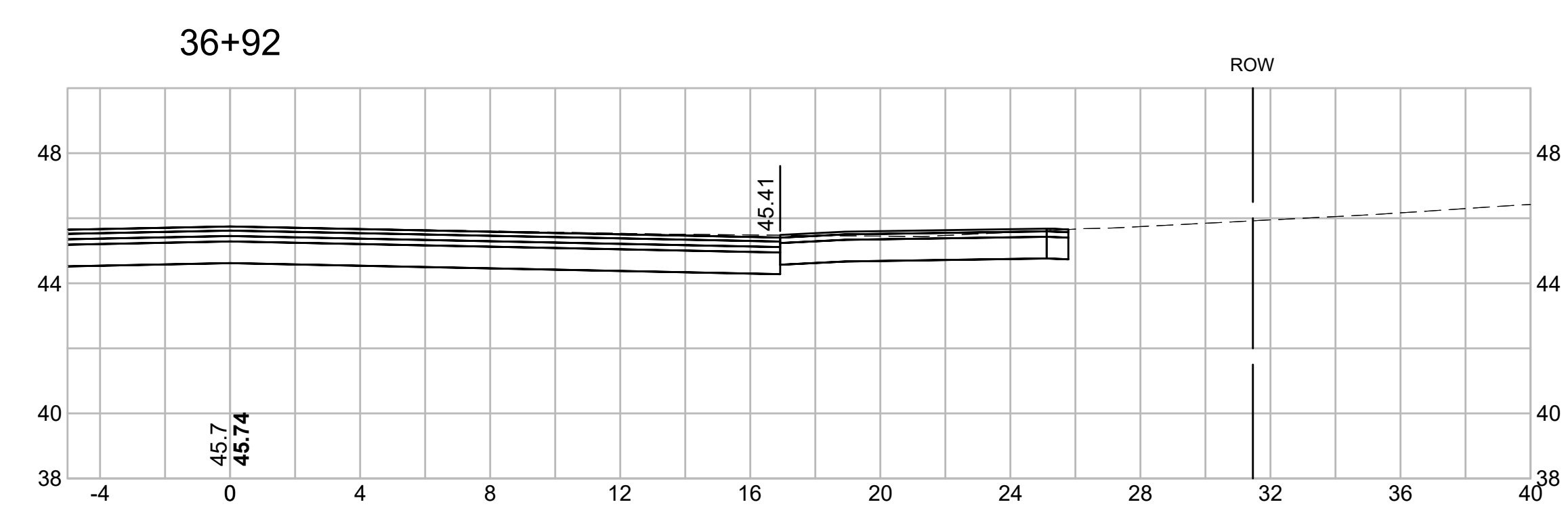
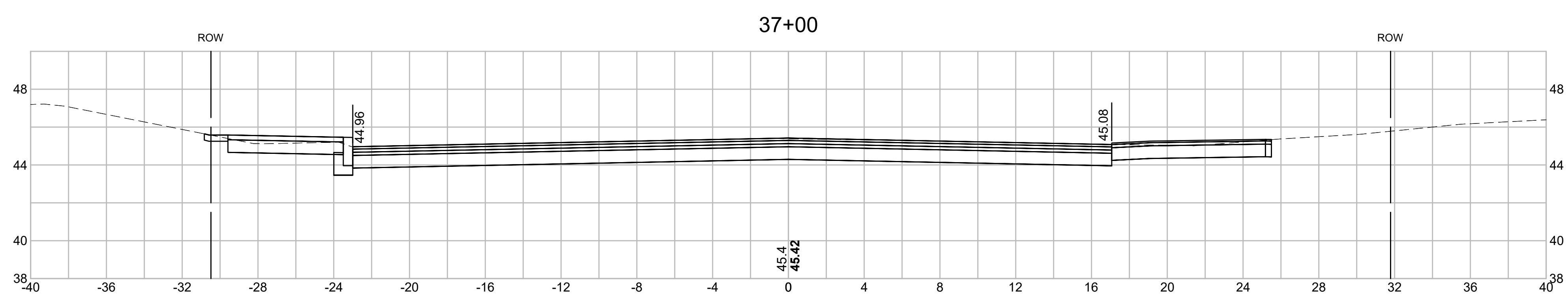
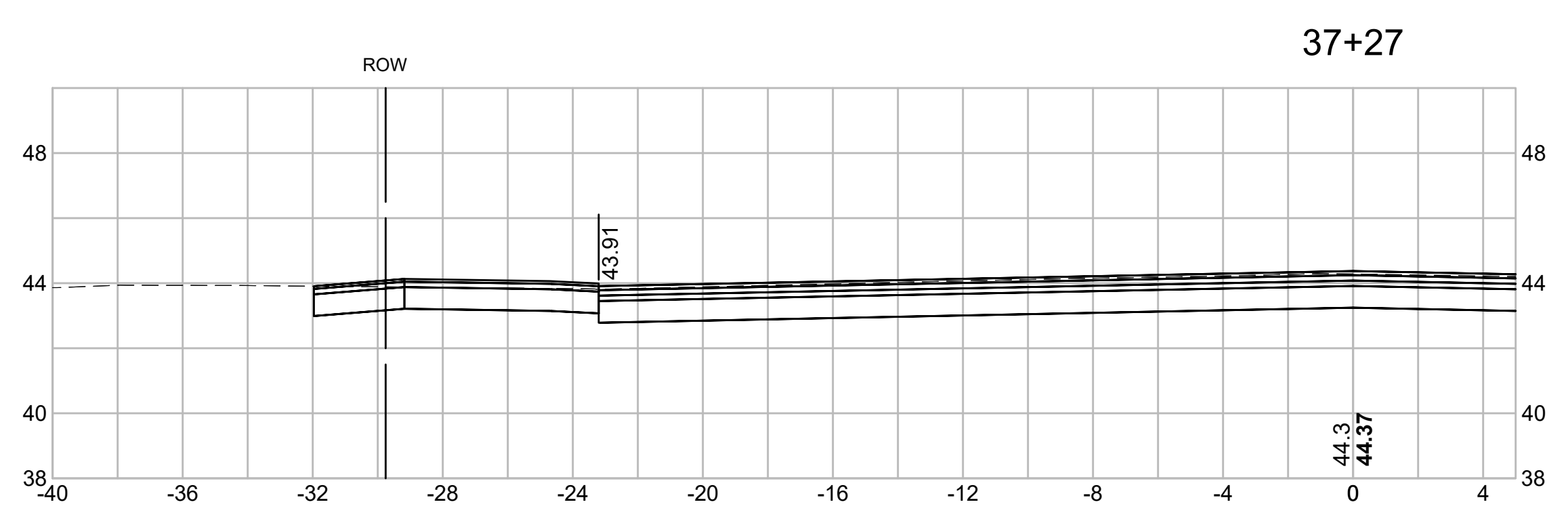
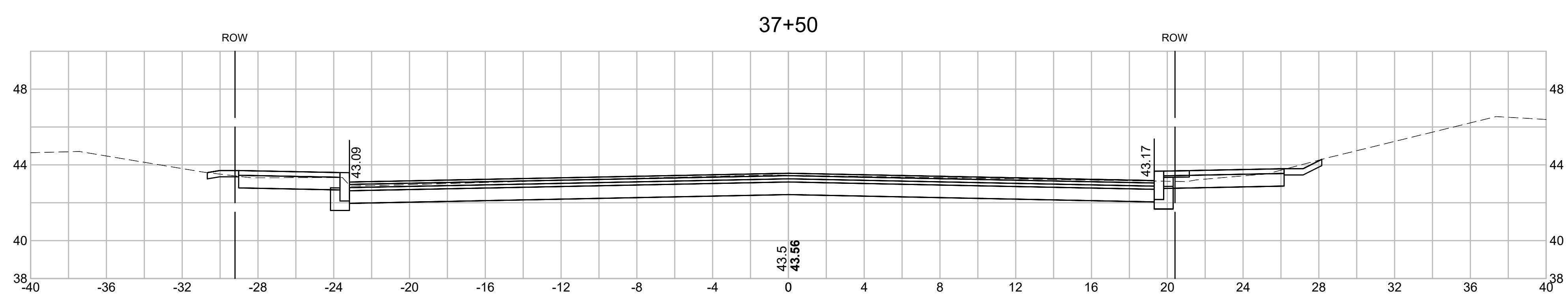
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**MAPLEWOOD
 AVENUE
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SCALE: 1"=4'

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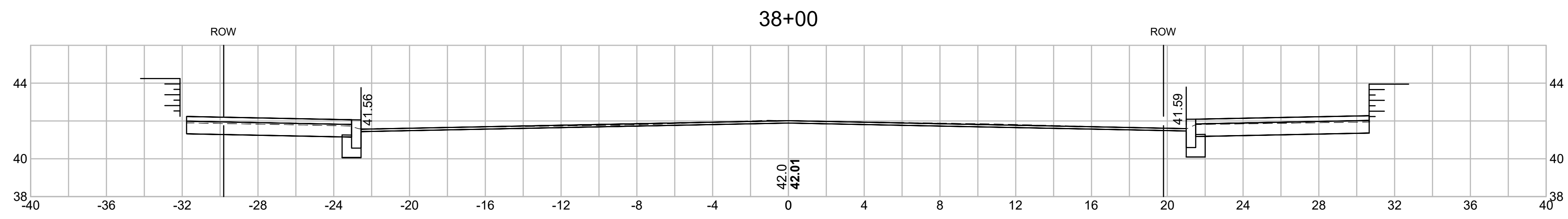
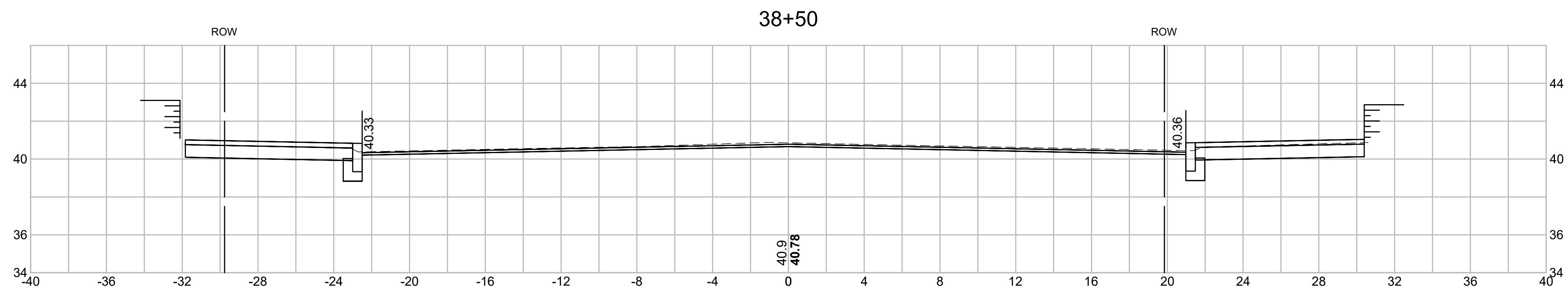
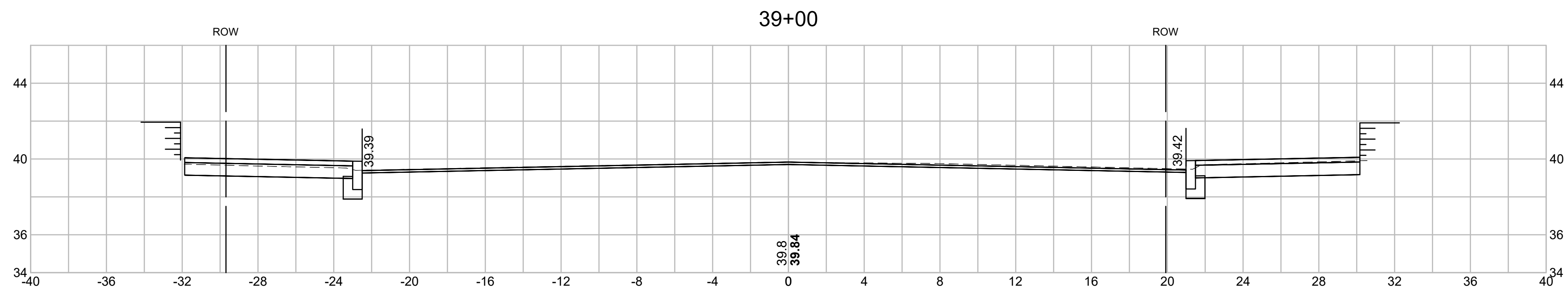
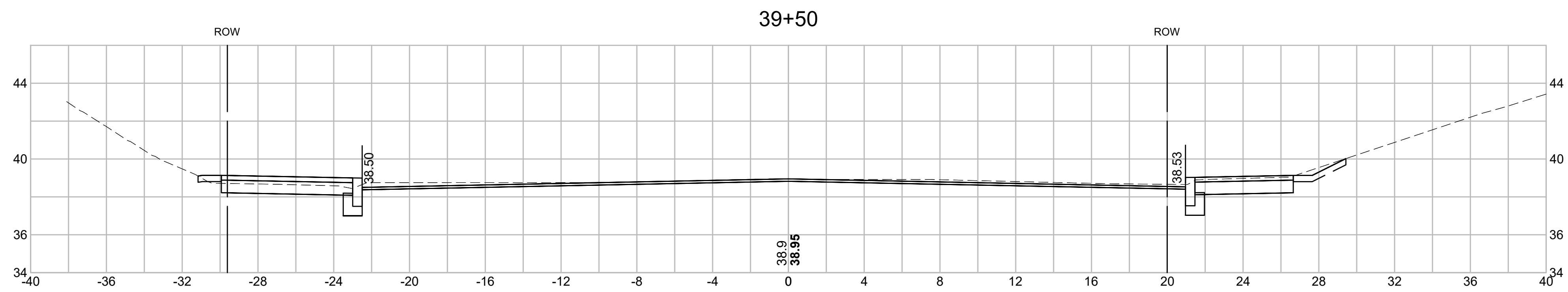
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**MAPLEWOOD
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SCALE: 1"=4'

2015086.00

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 680 PEVERLY HILL ROAD
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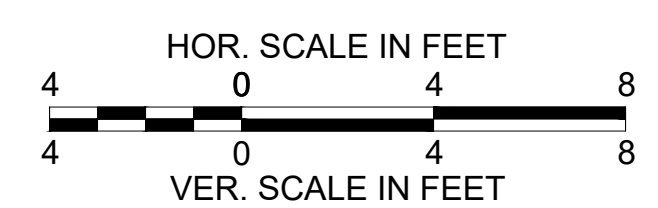
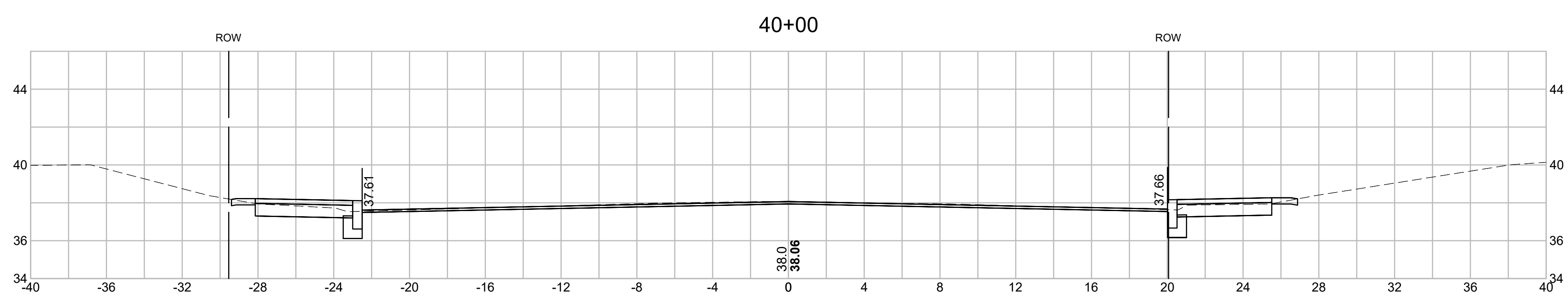
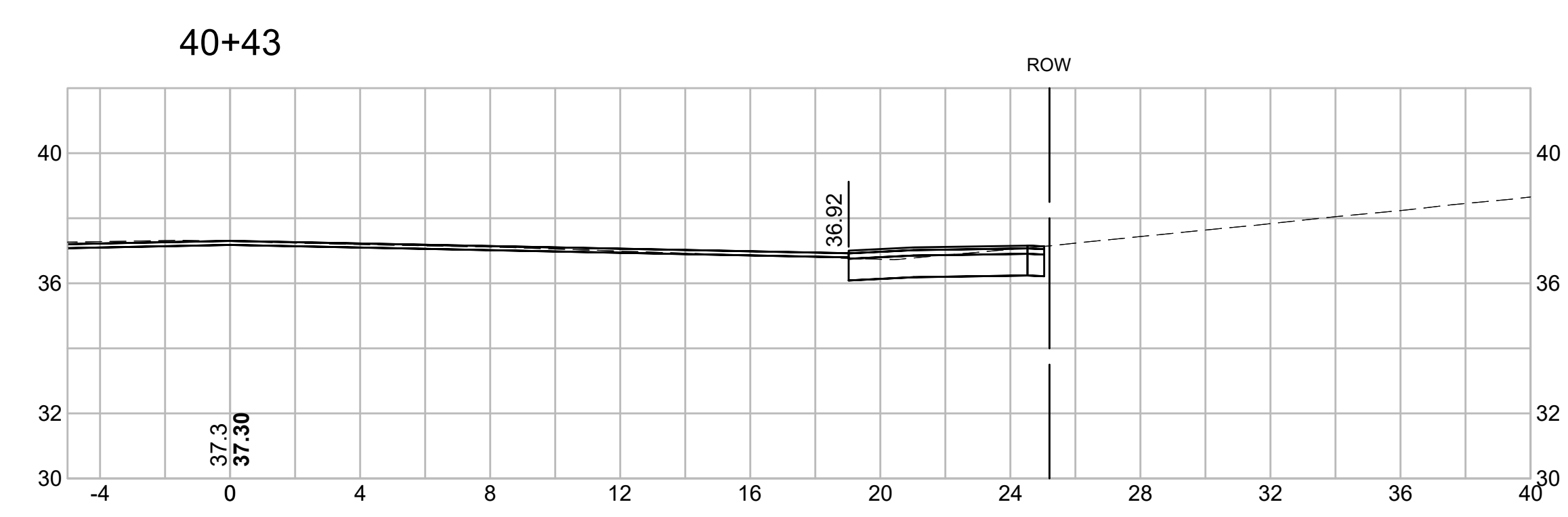
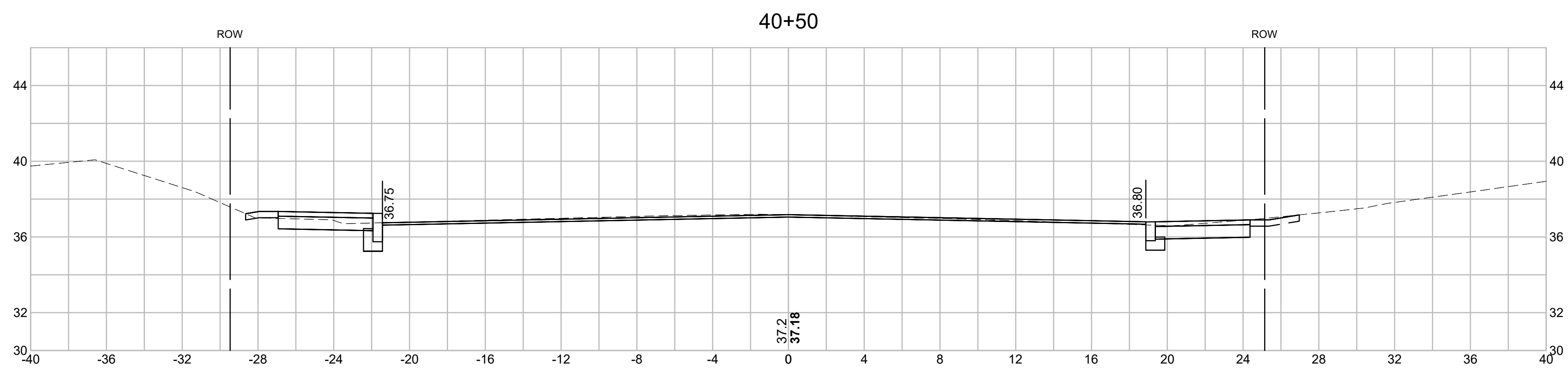
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
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 680 PEVERLY HILL ROAD
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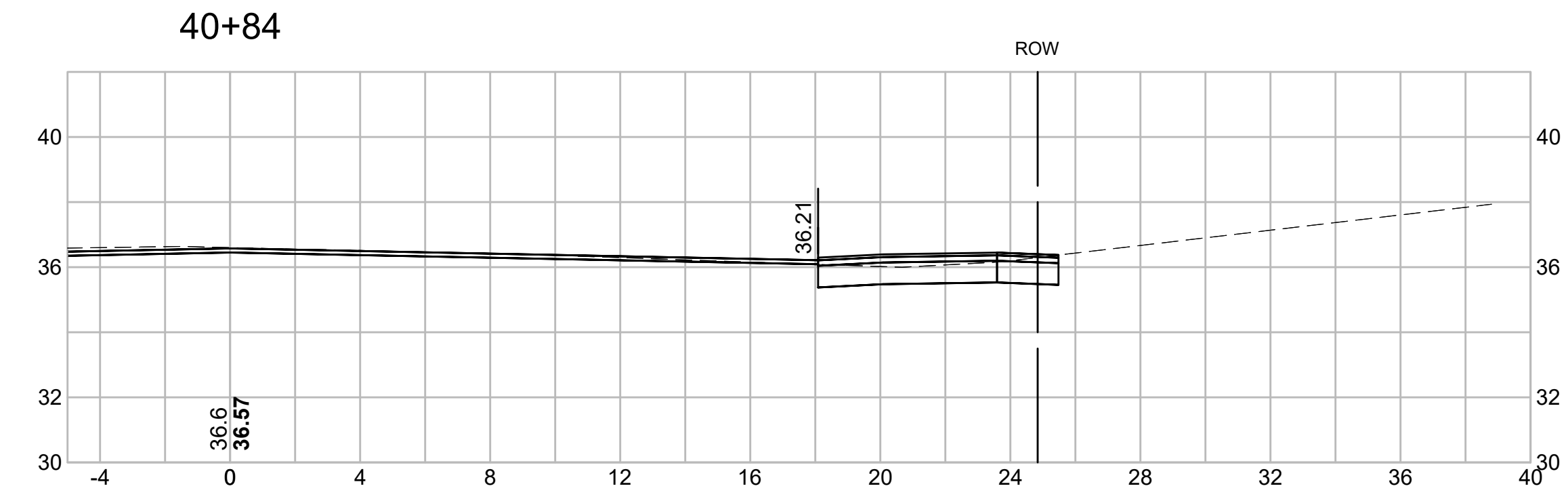
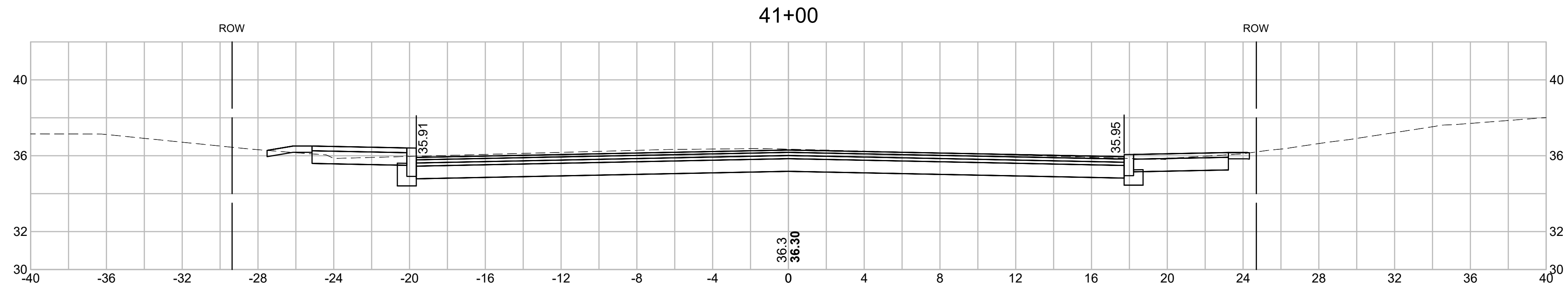
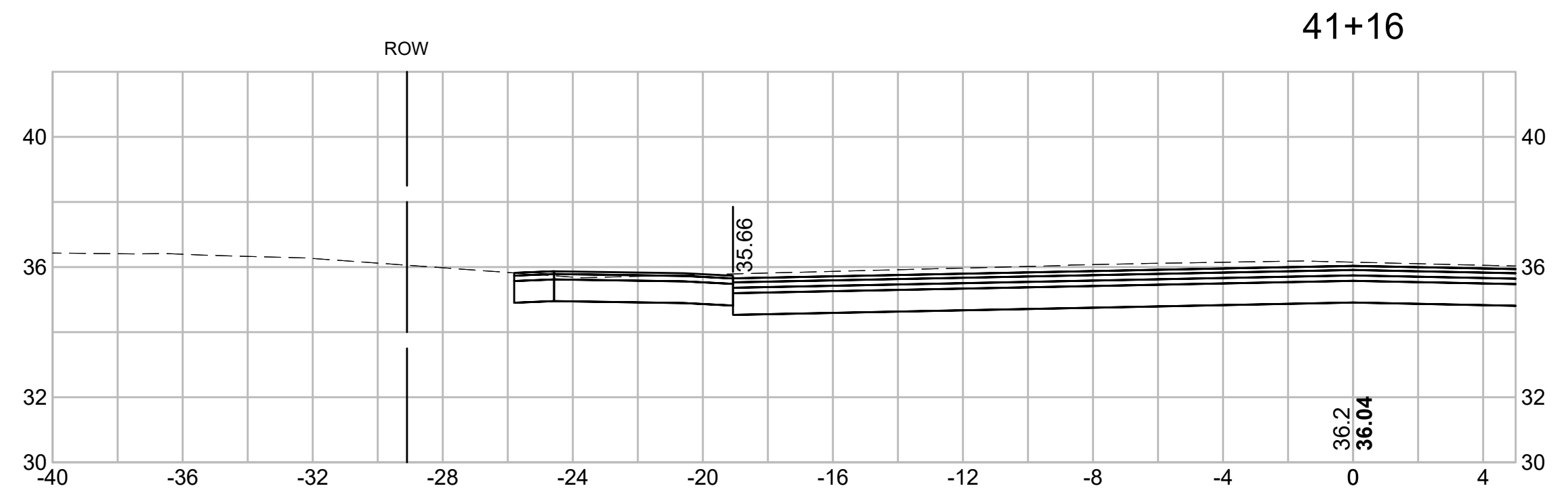
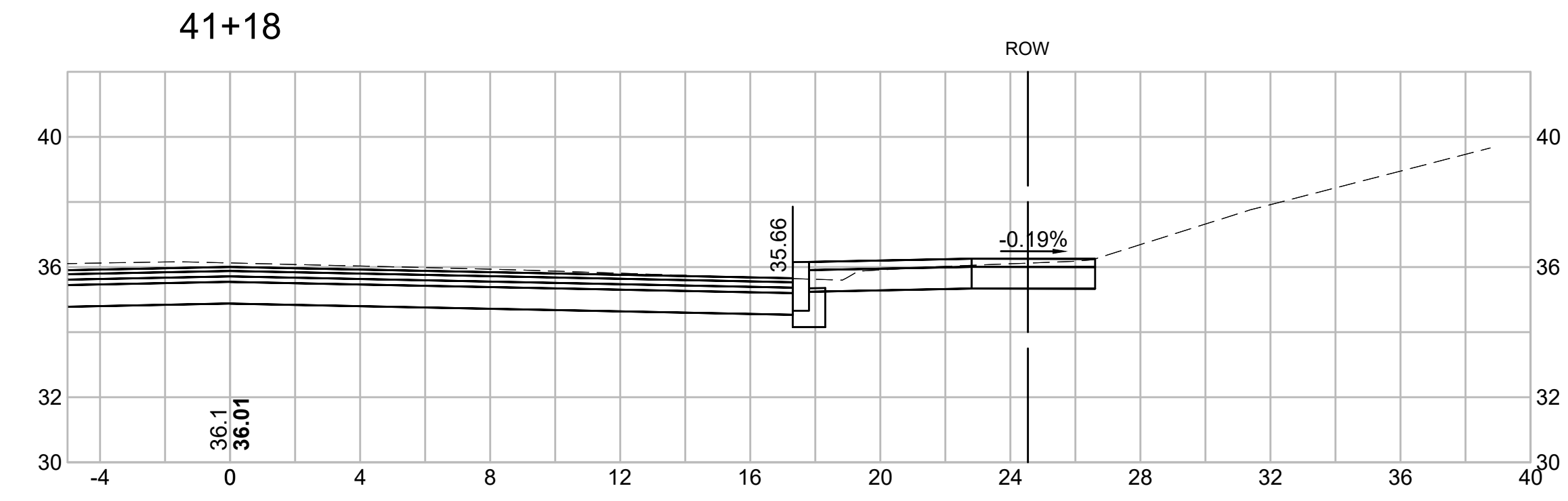
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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 121 OF 184





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 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

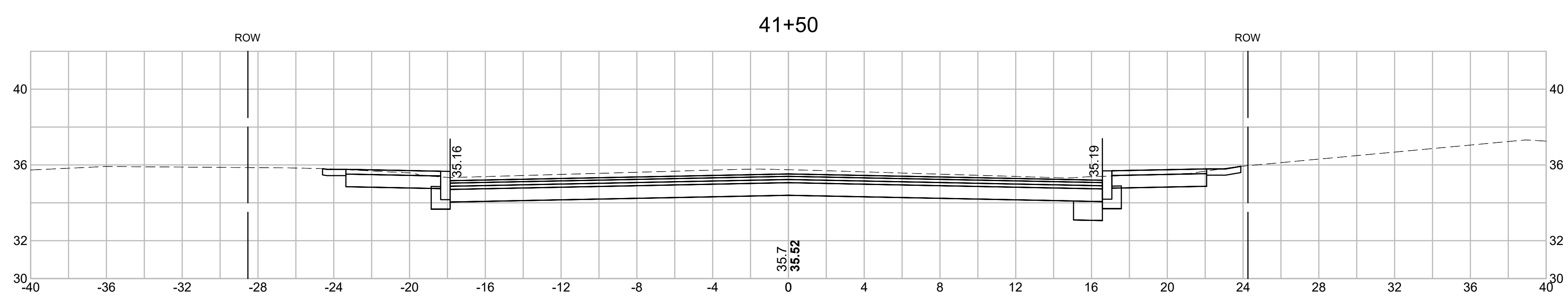
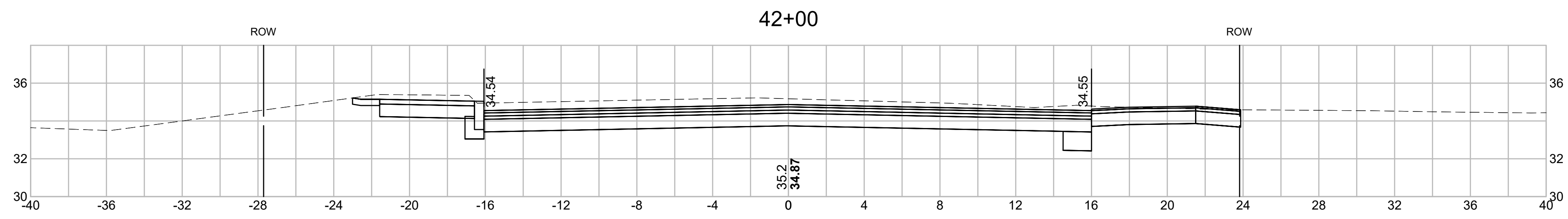
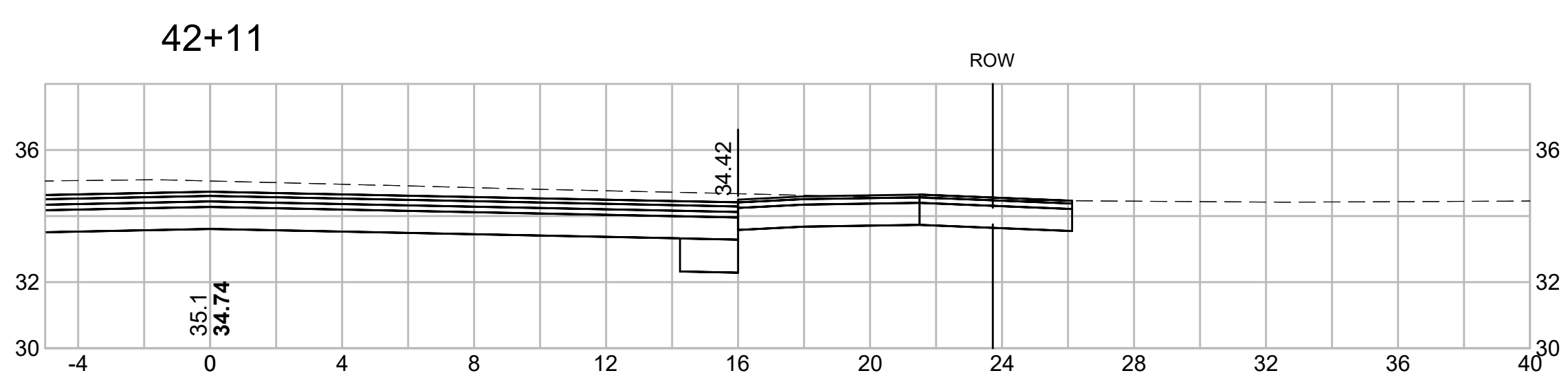
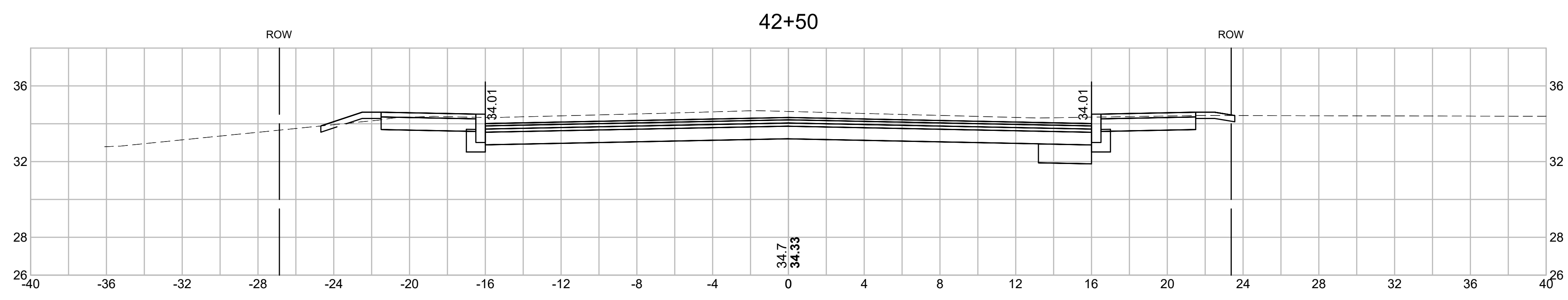
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

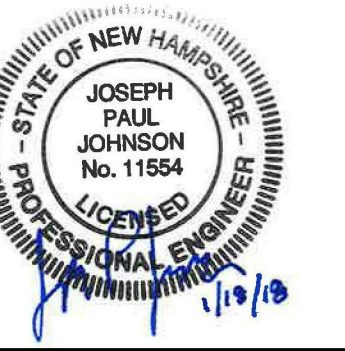
REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018

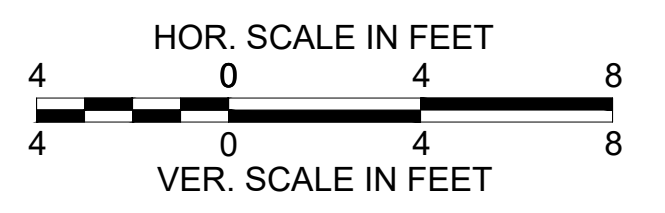
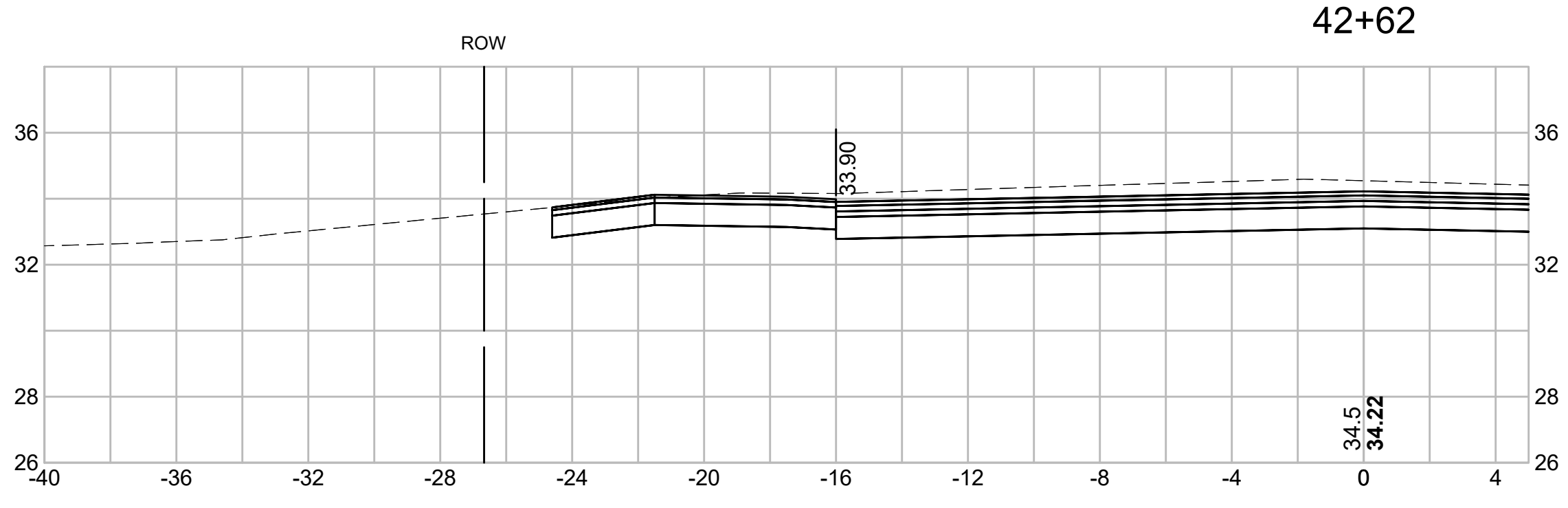
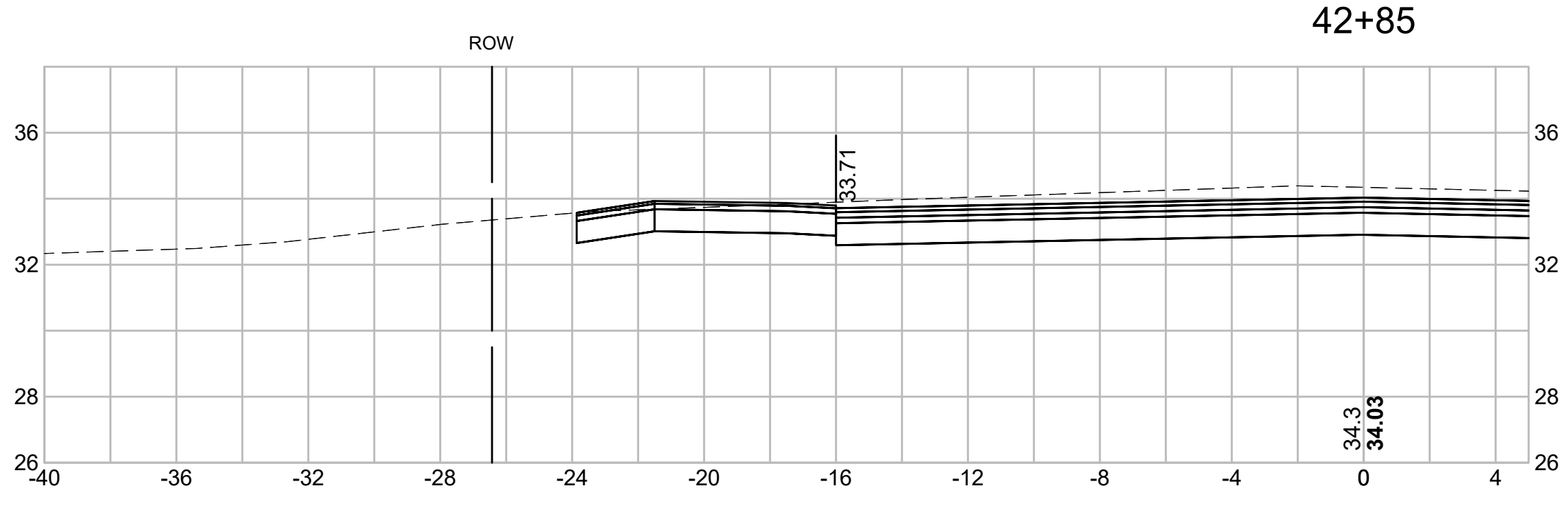
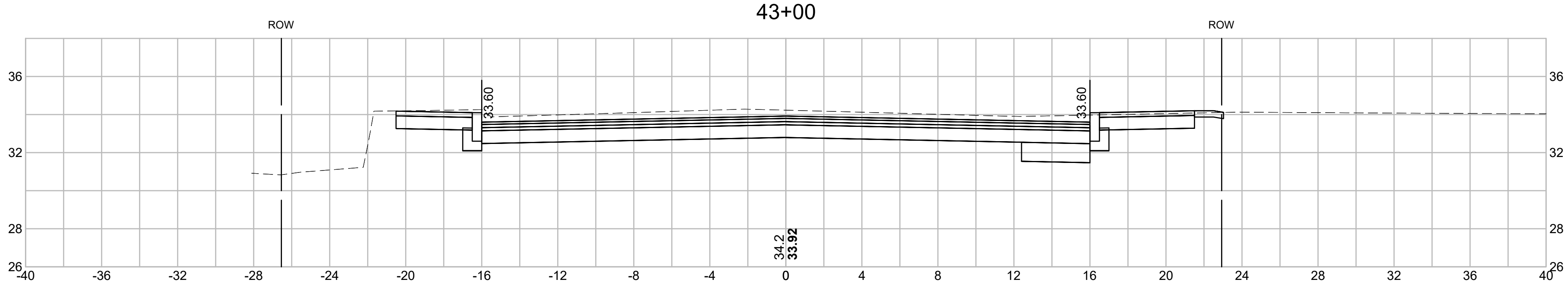
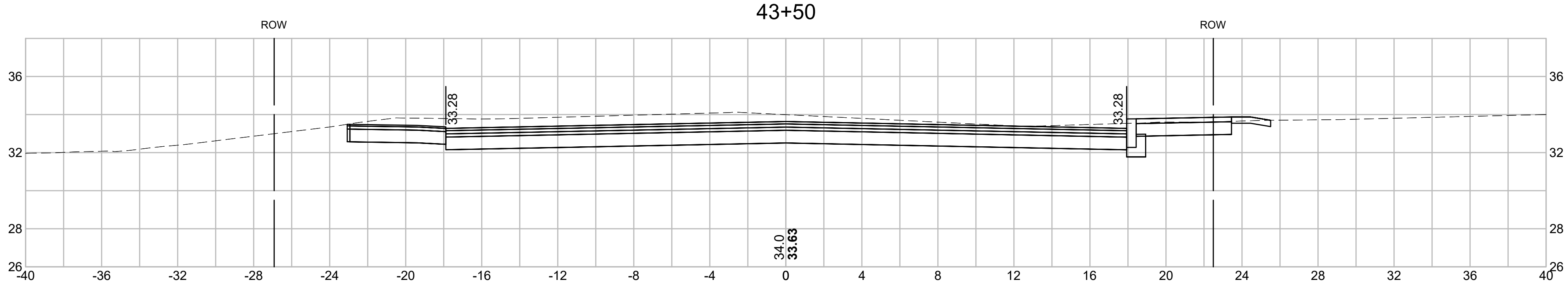
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

2015086.00

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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

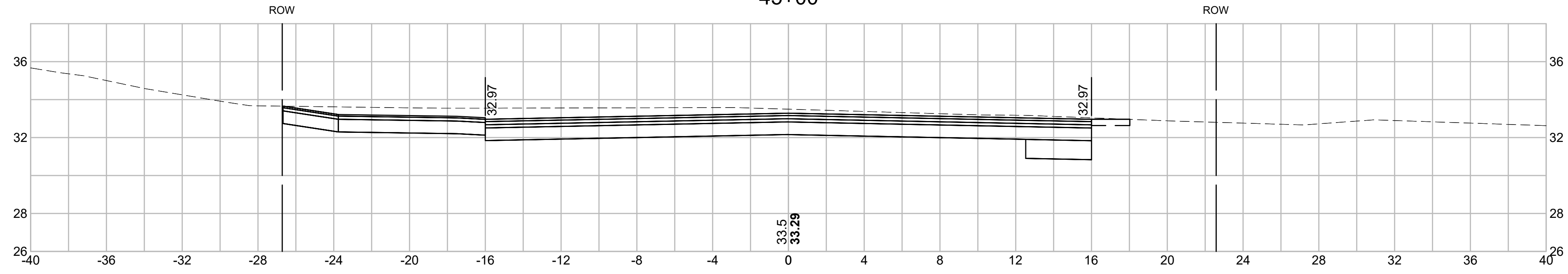
REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

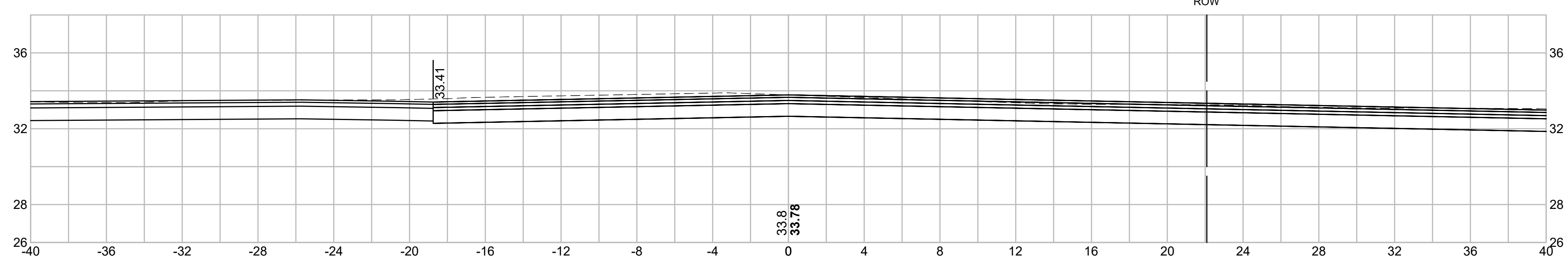
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00
 124 OF 184

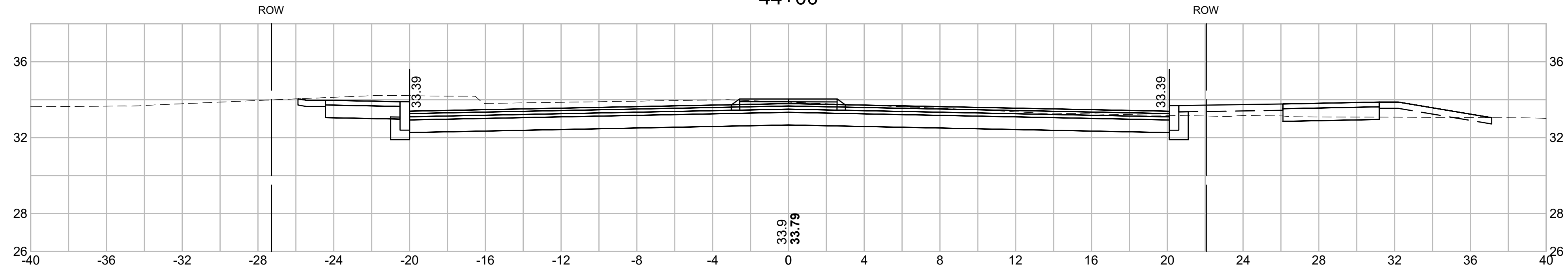
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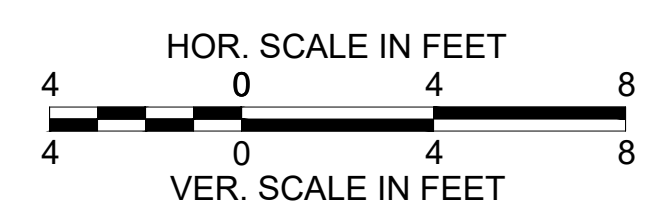
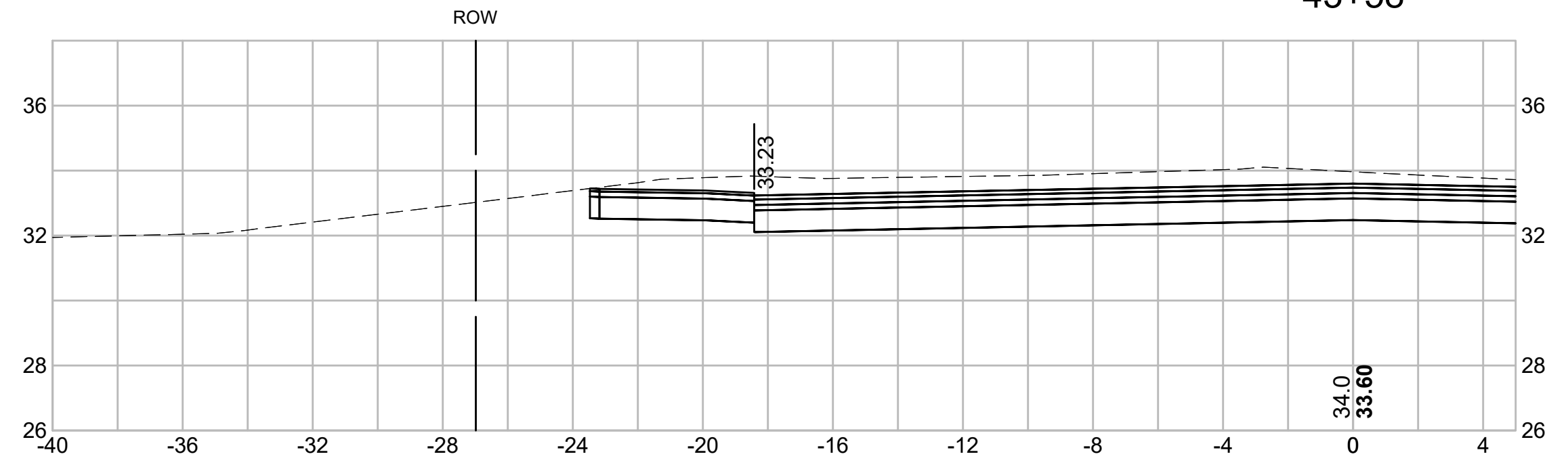
44+50



44+00



43+58





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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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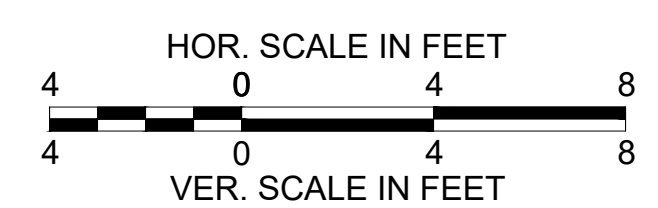
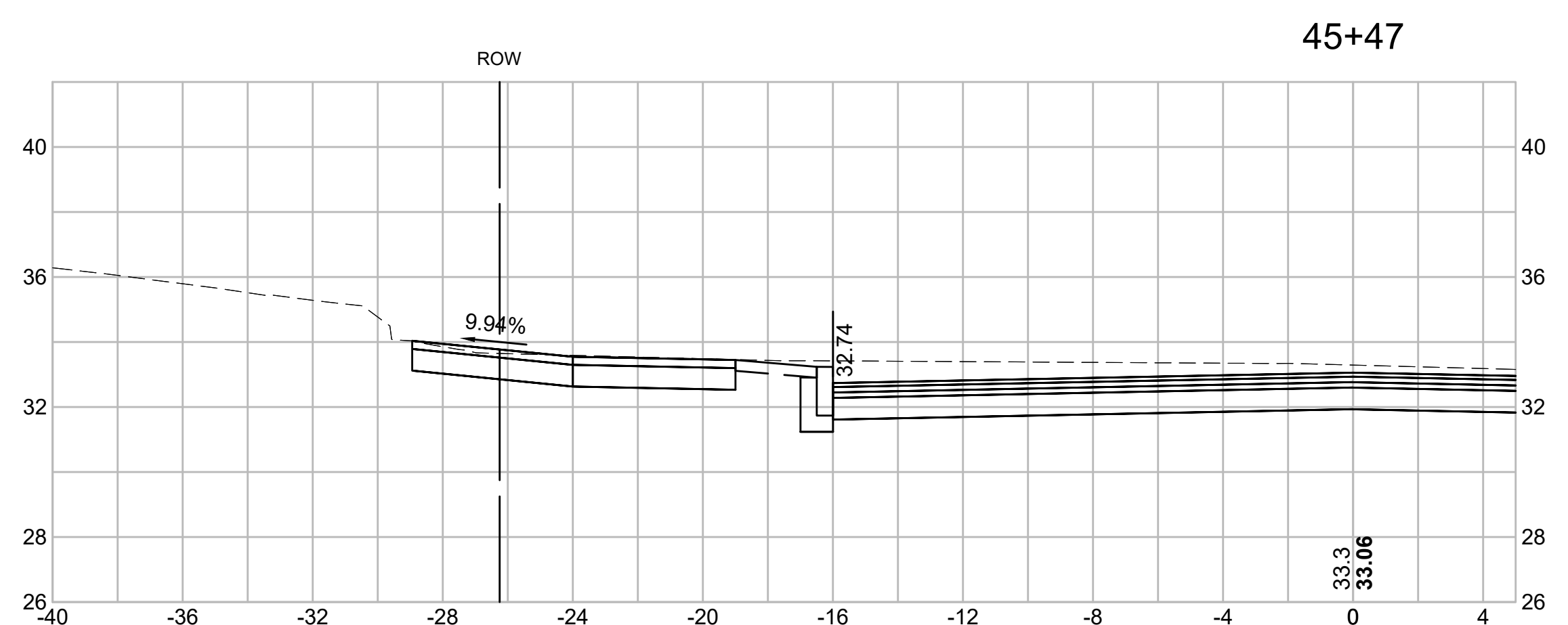
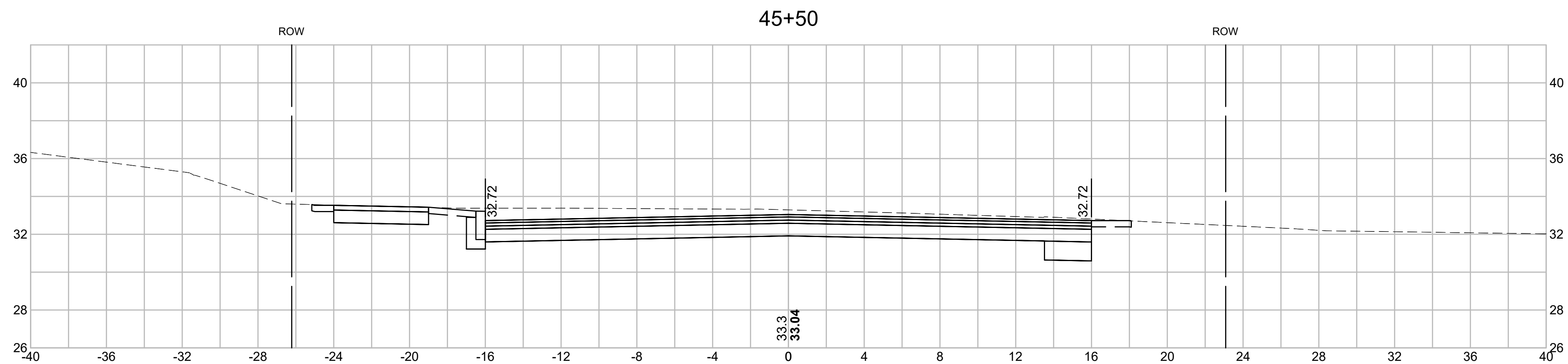
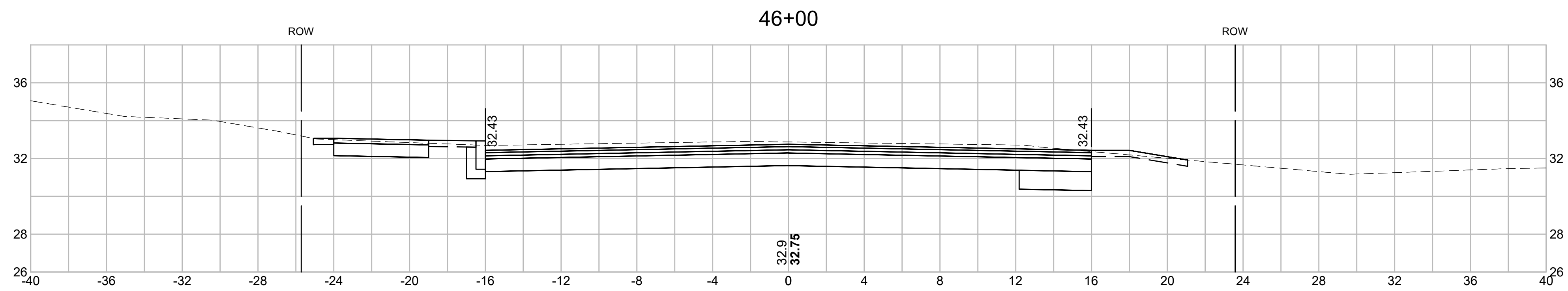
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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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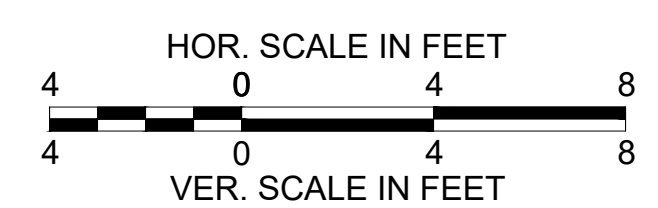
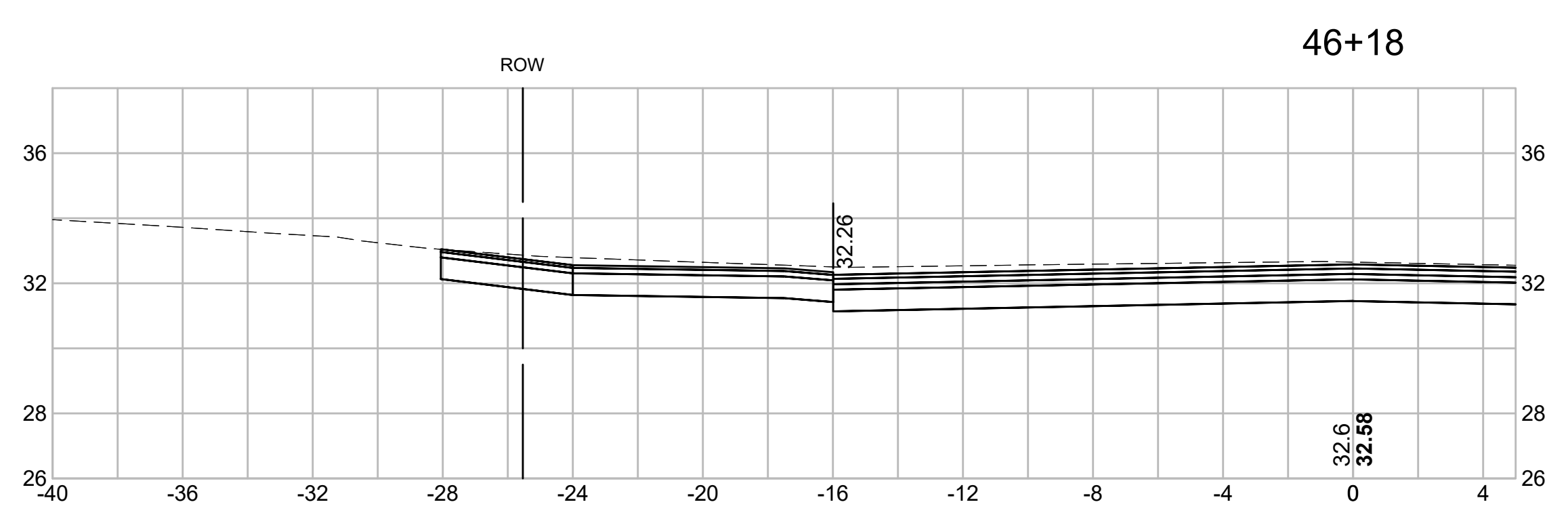
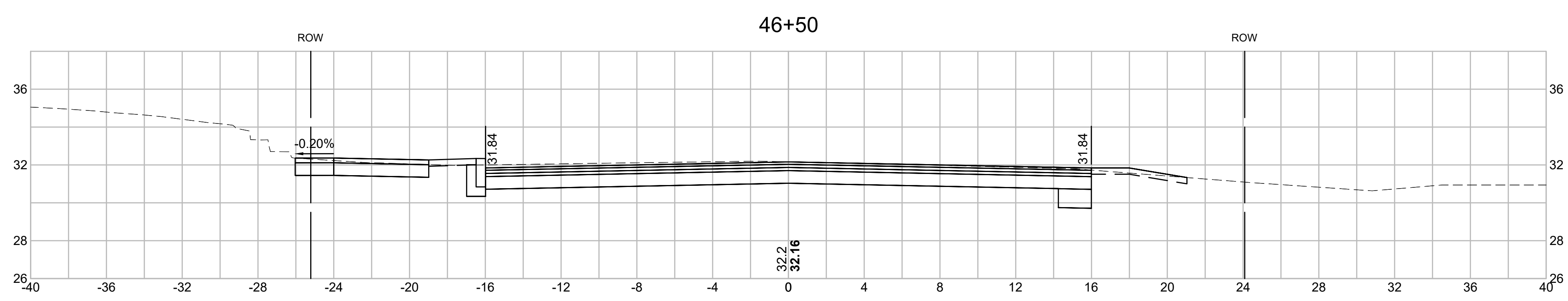
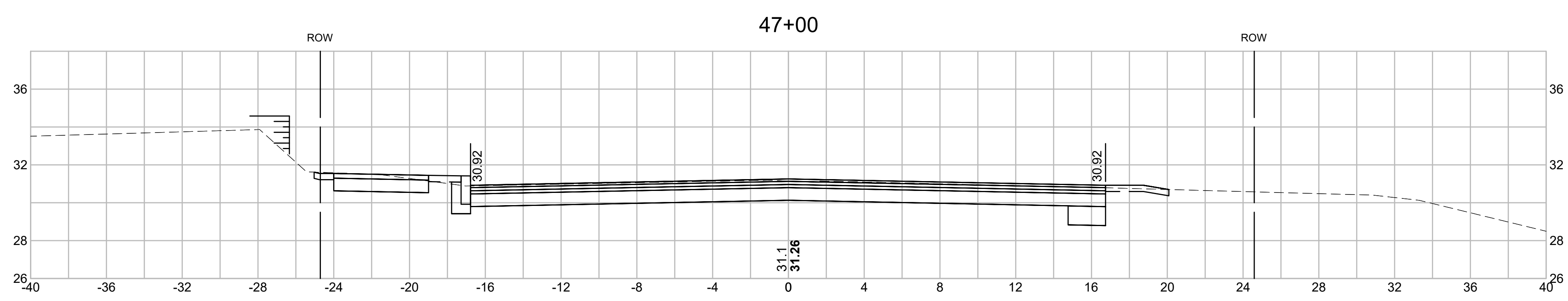
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

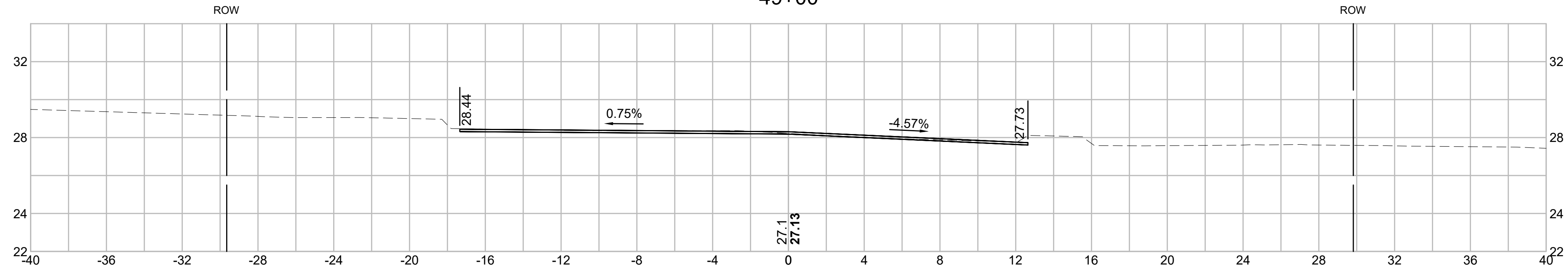
REVISIONS		
NO.	REVISION	DATE

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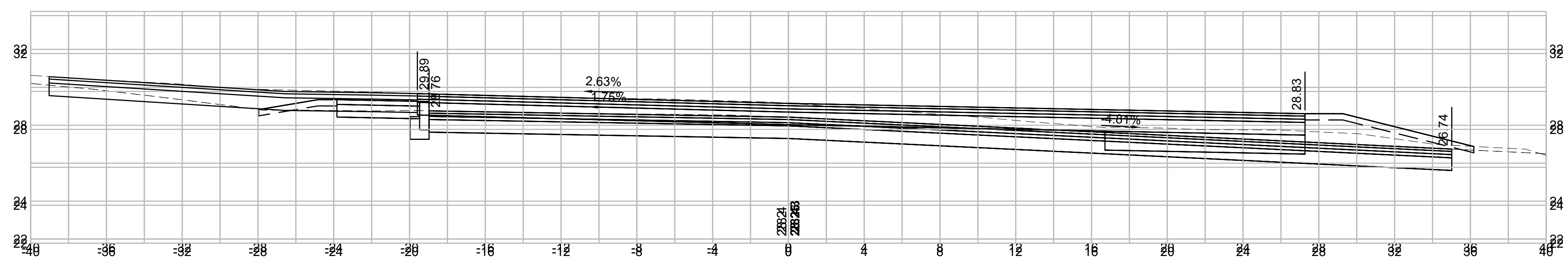
**MAPLEWOOD
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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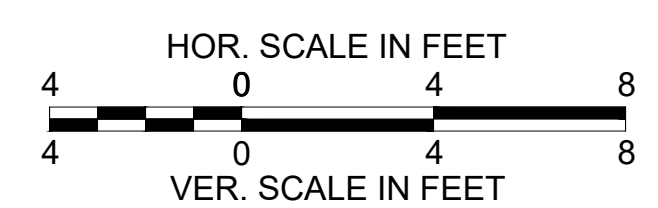
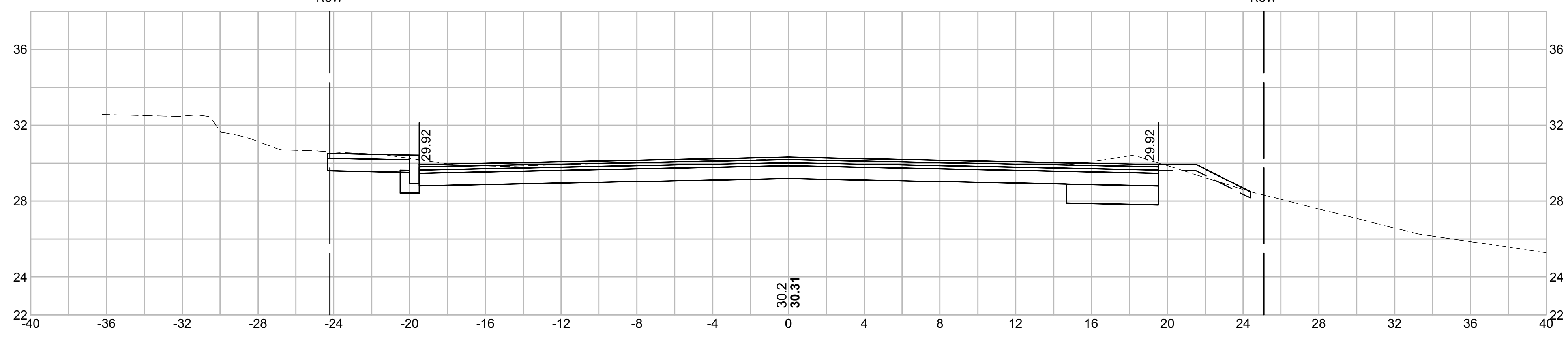
49+00



48+50



47+50





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 PORTSMOUTH, NH 03801

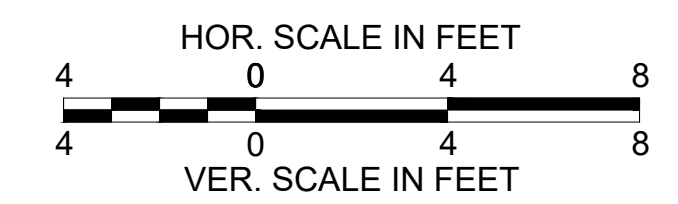
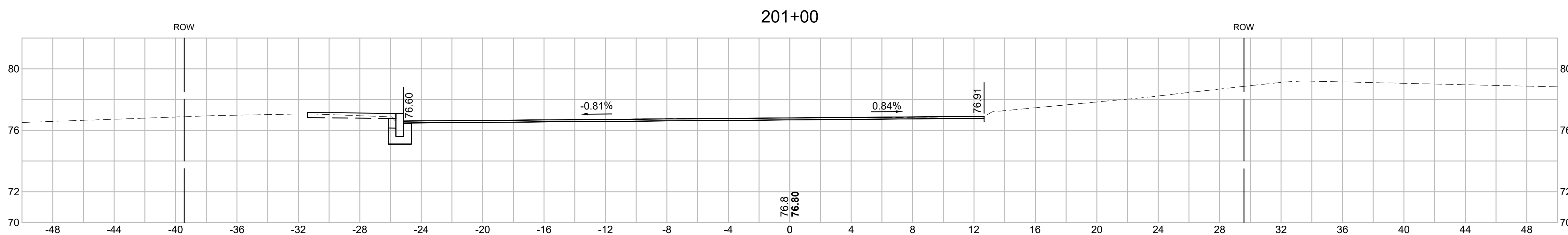
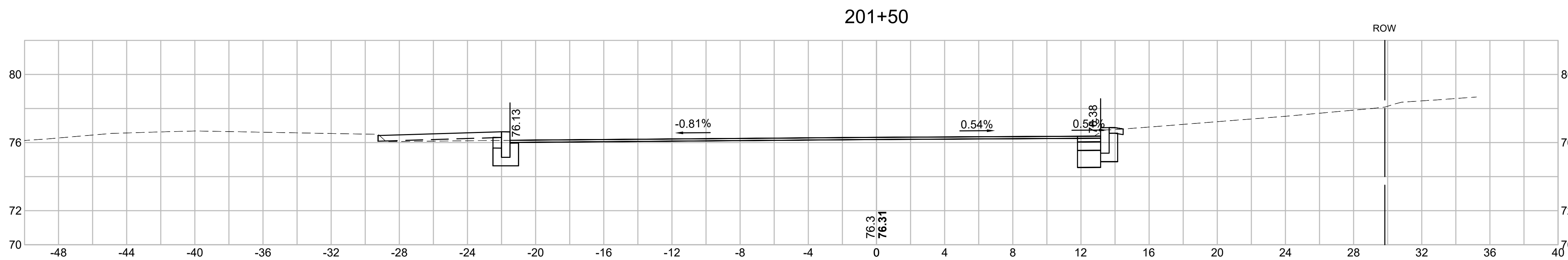
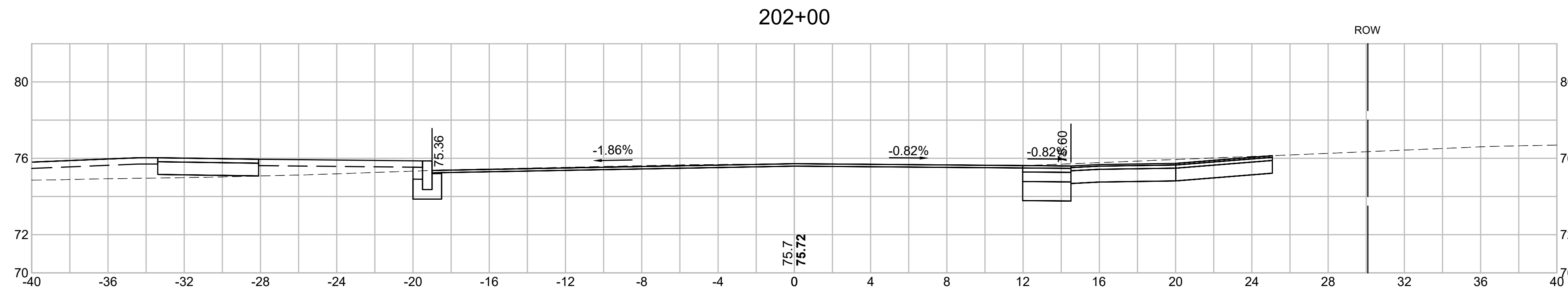
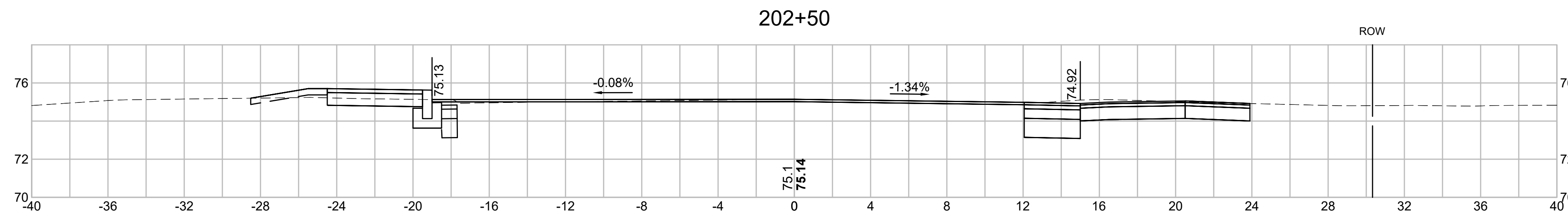
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**WOODBURY
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

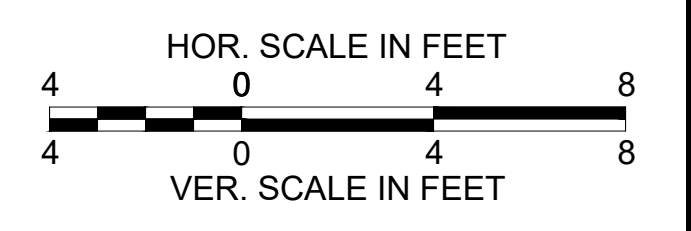
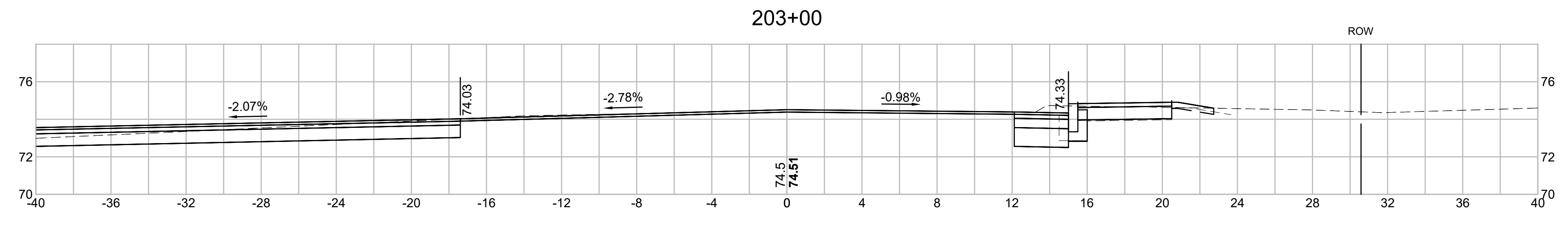
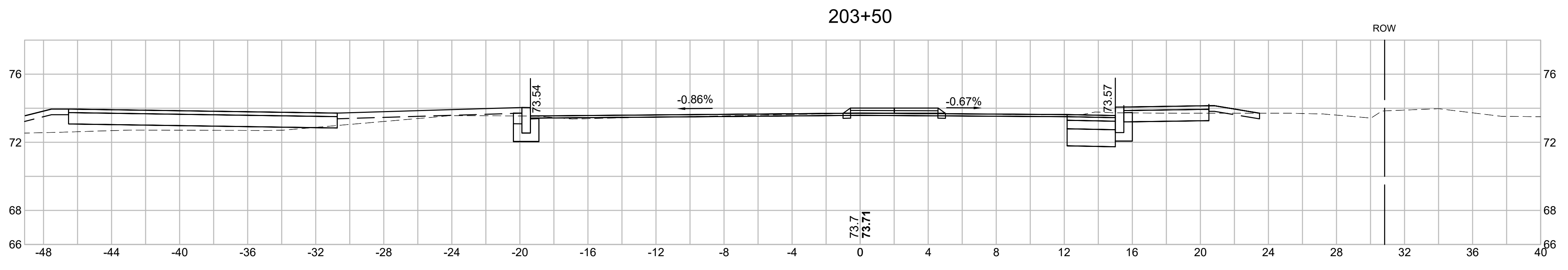
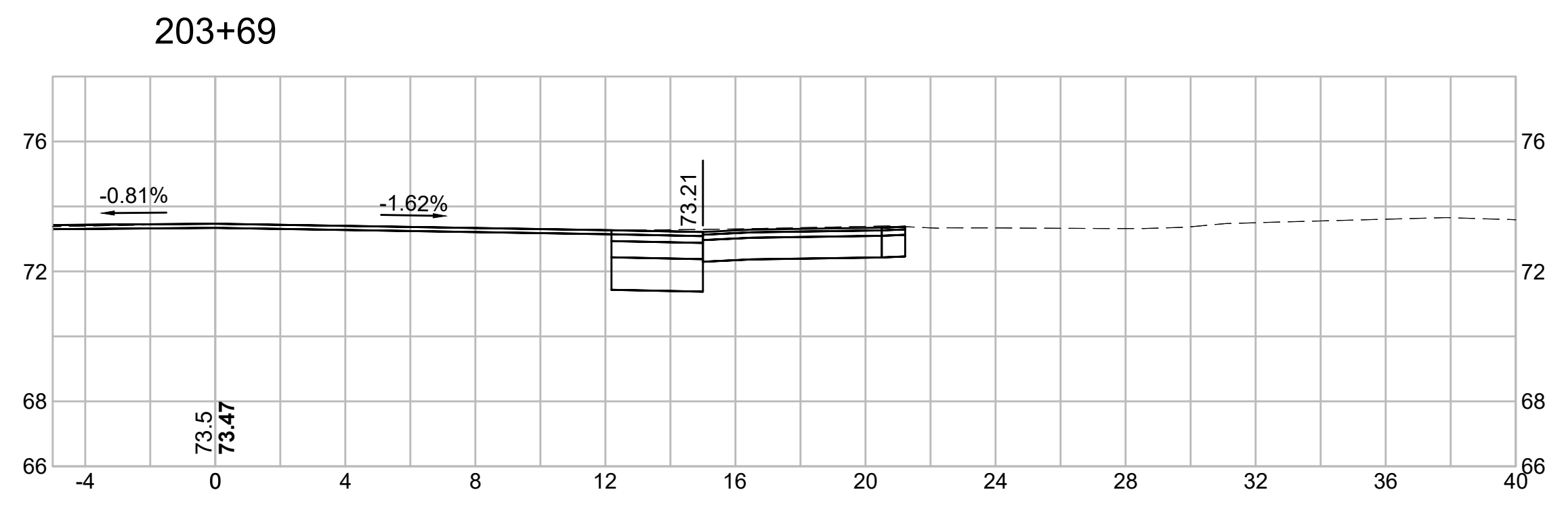
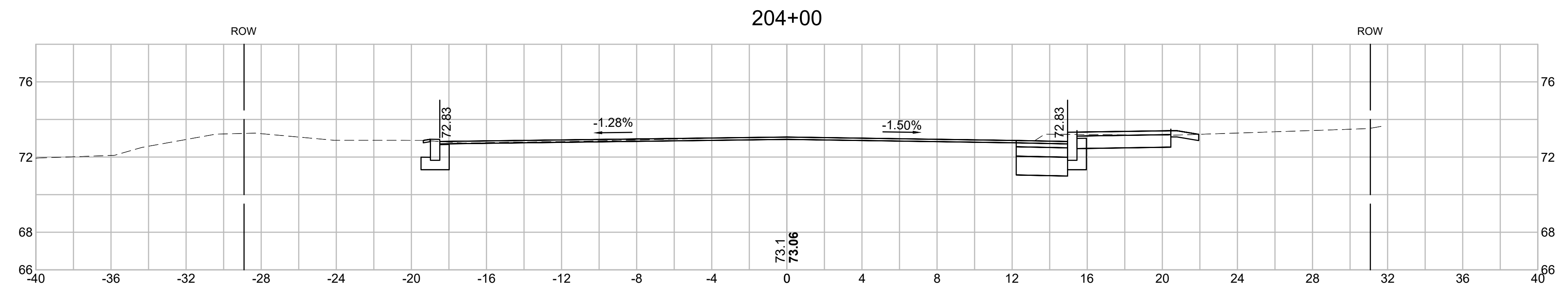
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

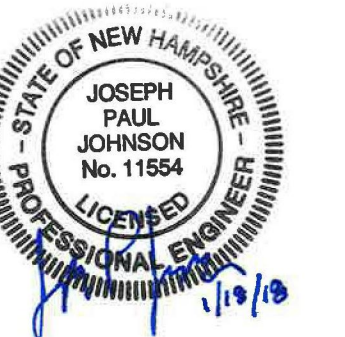
REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**WOODBURY
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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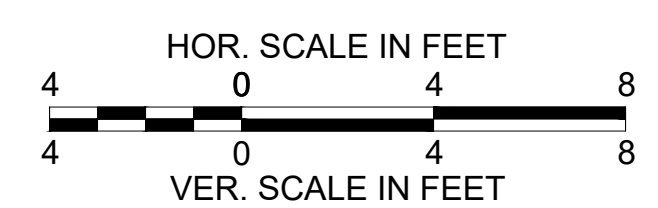
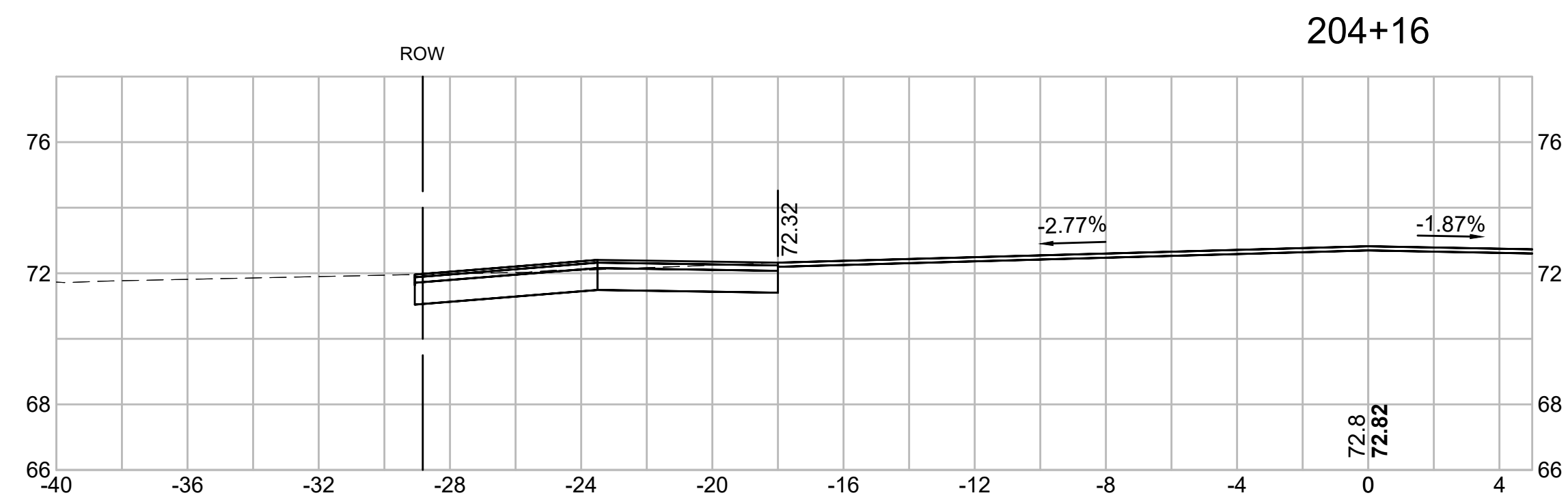
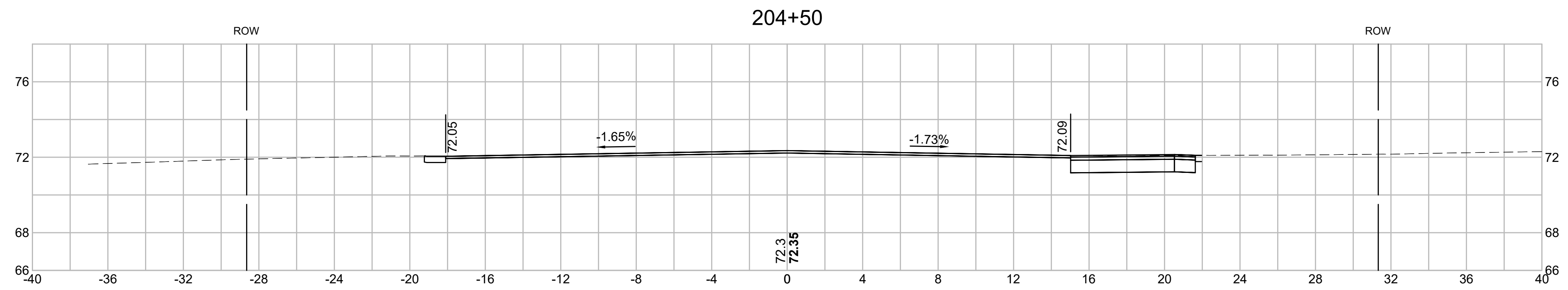
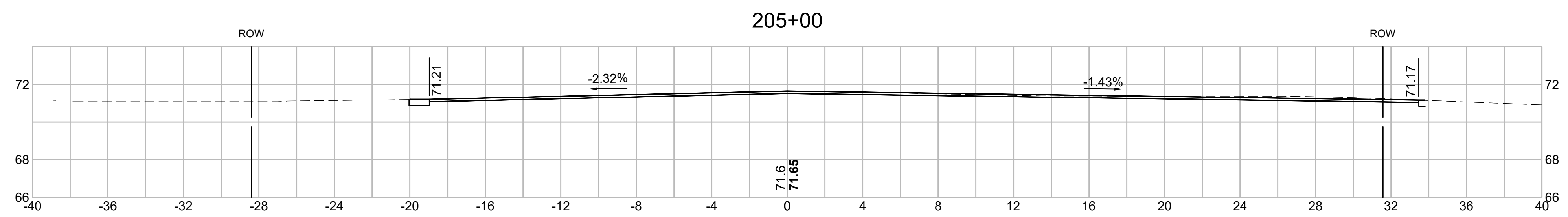
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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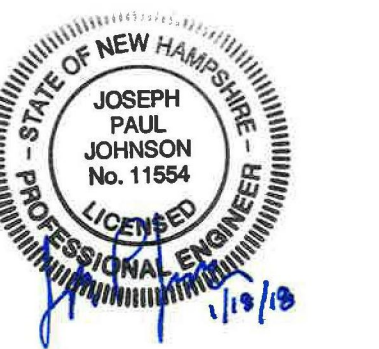
**WOODBURY
 AVENUE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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NO.	REVISION	DATE

1/18/2018

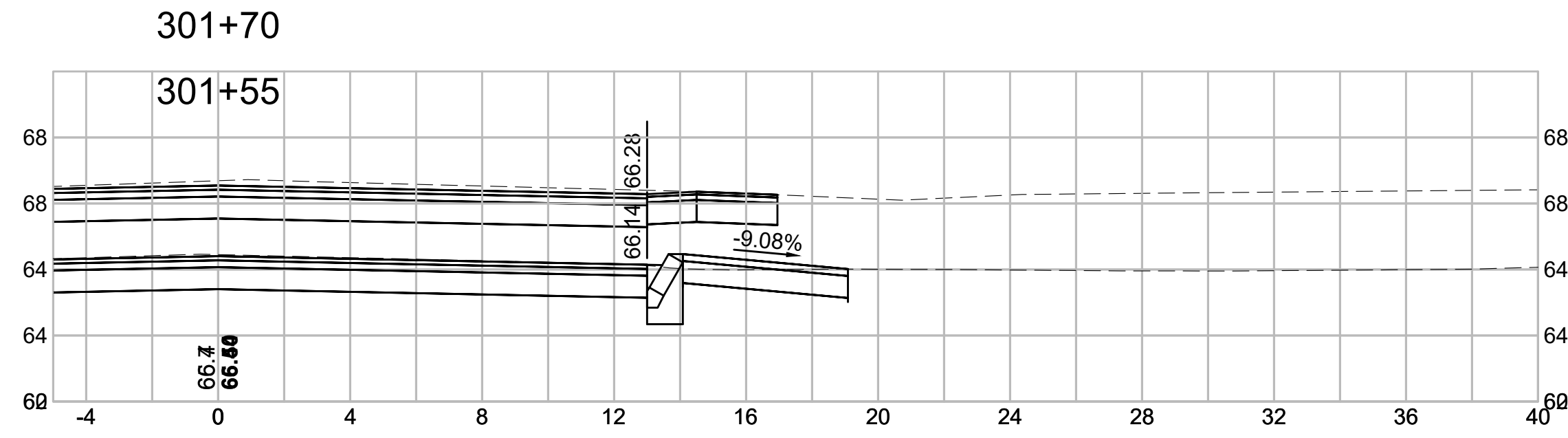
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**FAIRVIEW
 DRIVE
 CROSS
 SECTIONS**

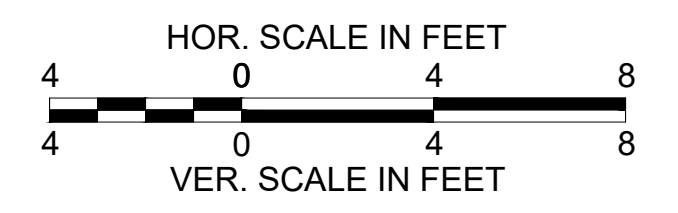
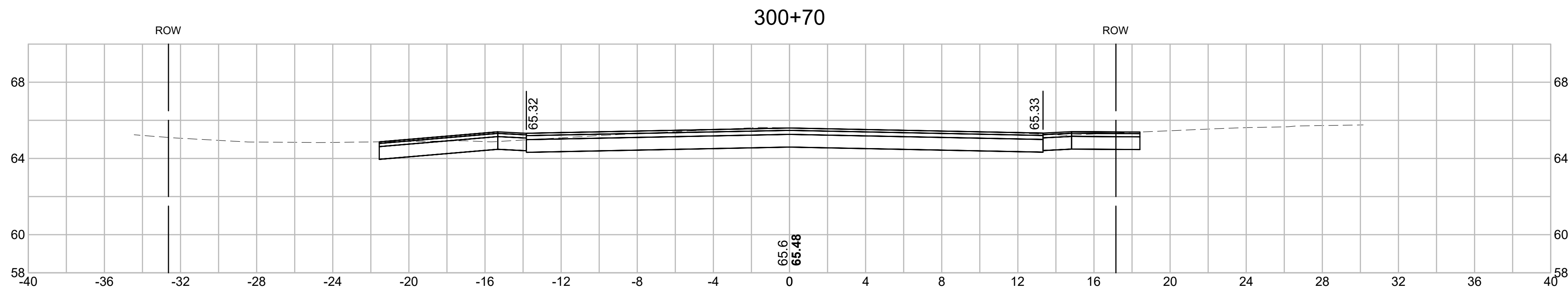
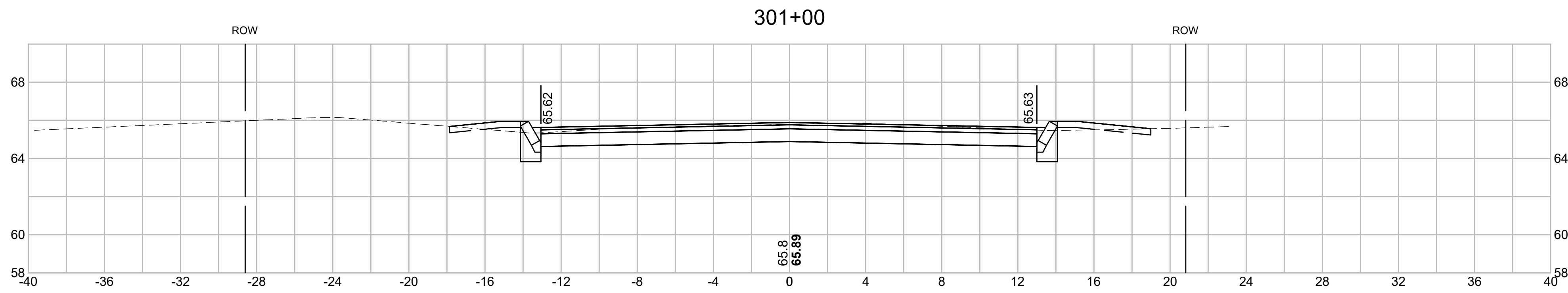
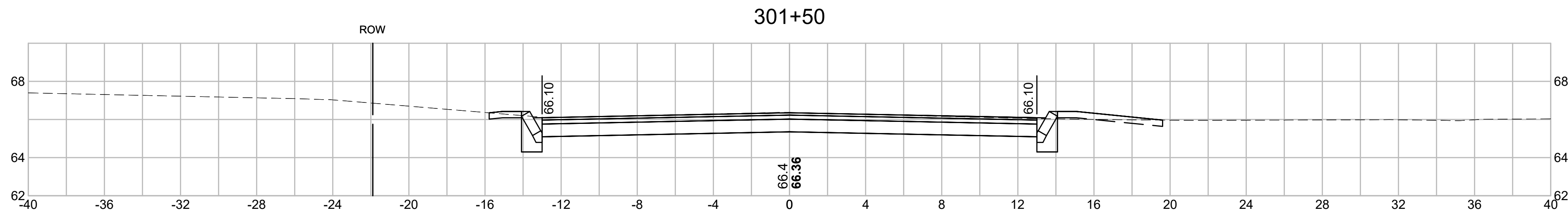
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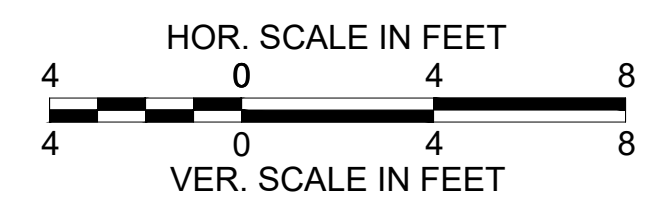
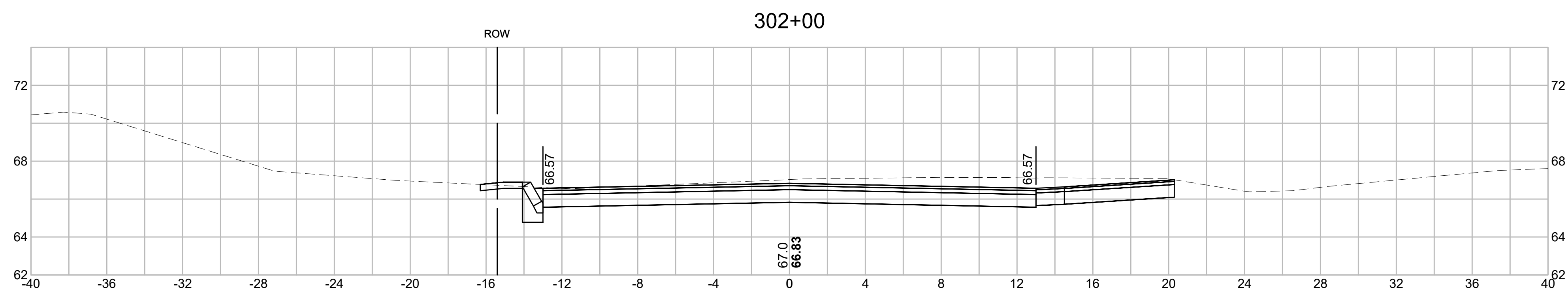
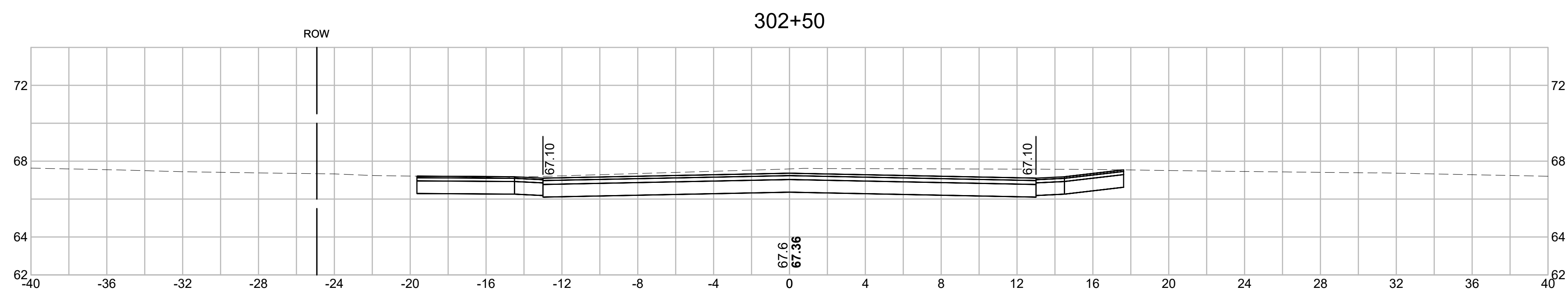
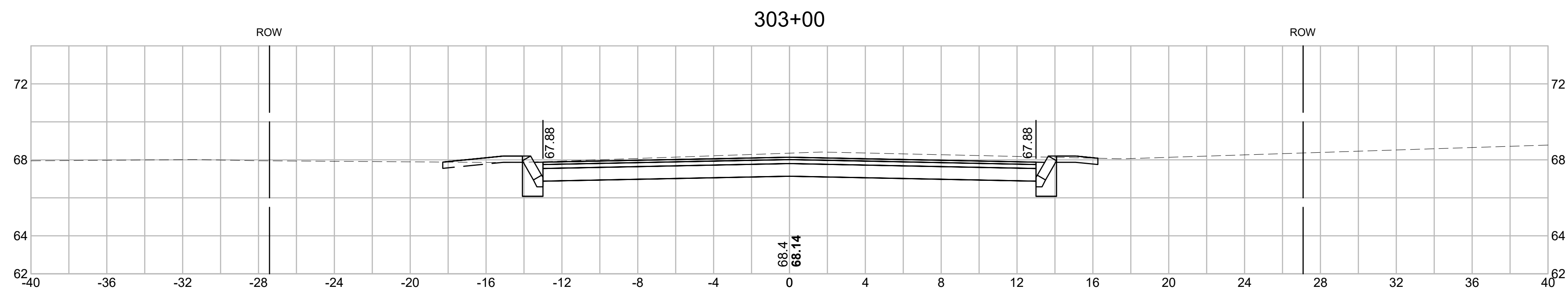
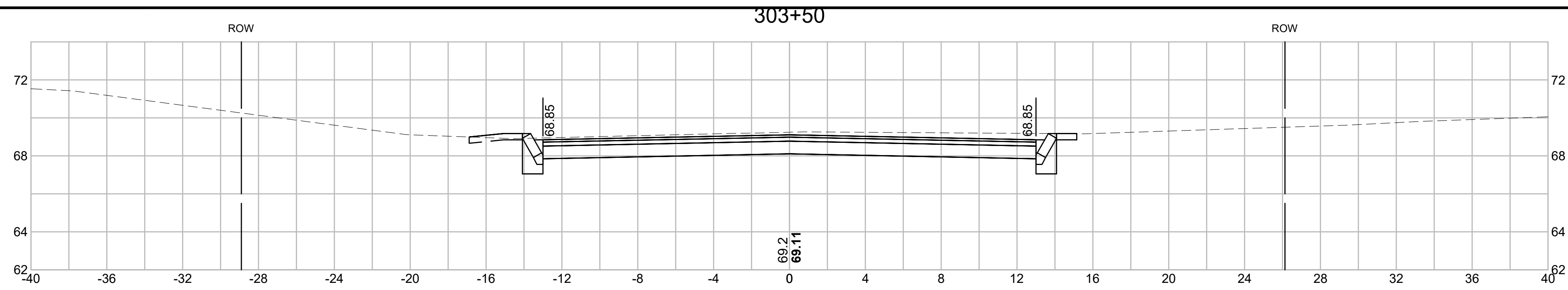
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FILL = 0.00 s.f.
 CUT = 0.00 s.f.





GPI Greenman-Pedersen, Inc.
Engineering & Construction Services
21 Daniel Street, Second Floor, Portsmouth, NH 03801
Tel: (603) 891-2213 Fax: (978) 658-3044
http://www.gpinet.com

Weston & Sampson
Weston & Sampson Engineers, Inc.
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**IMPROVEMENTS TO MAPLEWOOD
AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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1/18/2018
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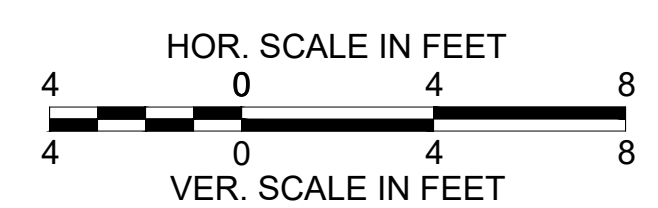
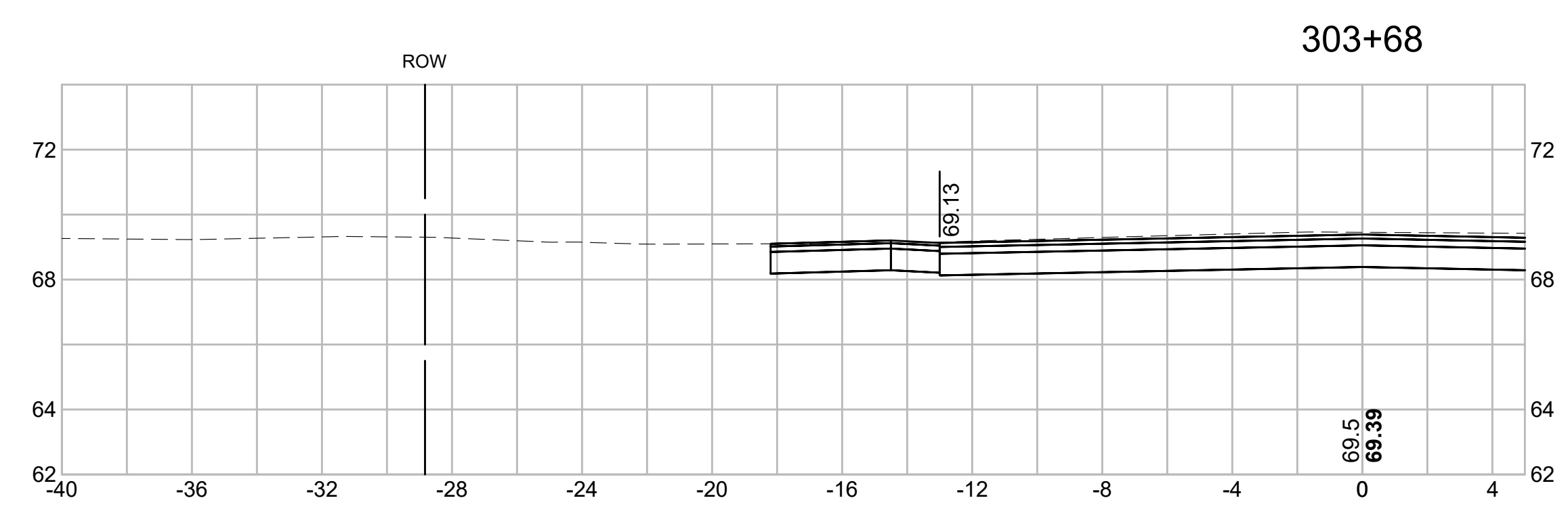
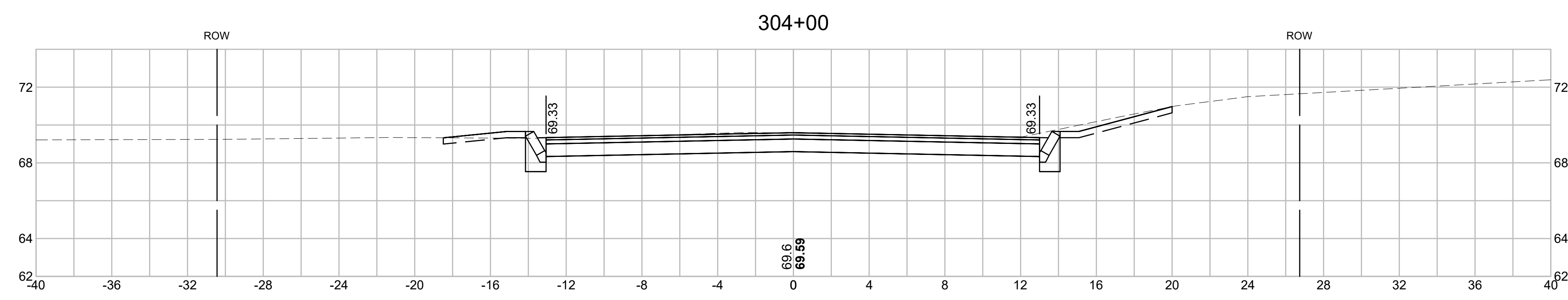
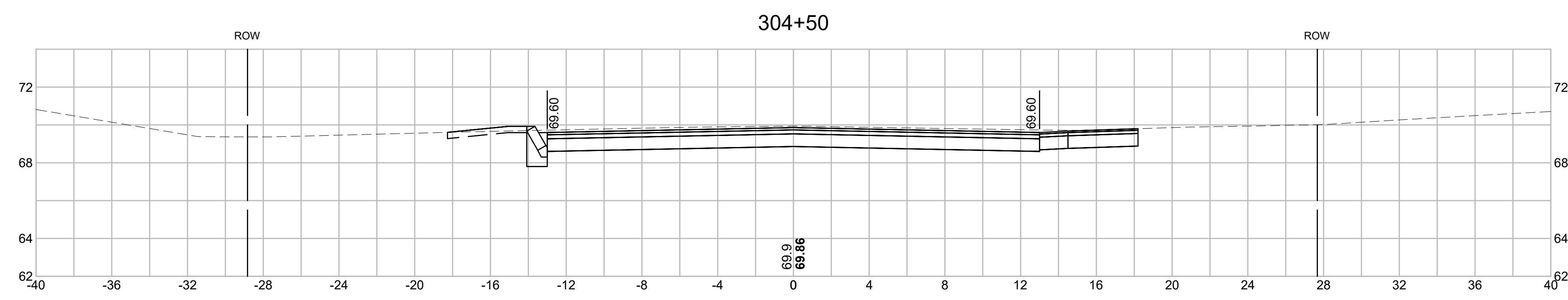
**FAIRVIEW
DRIVE
CROSS
SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



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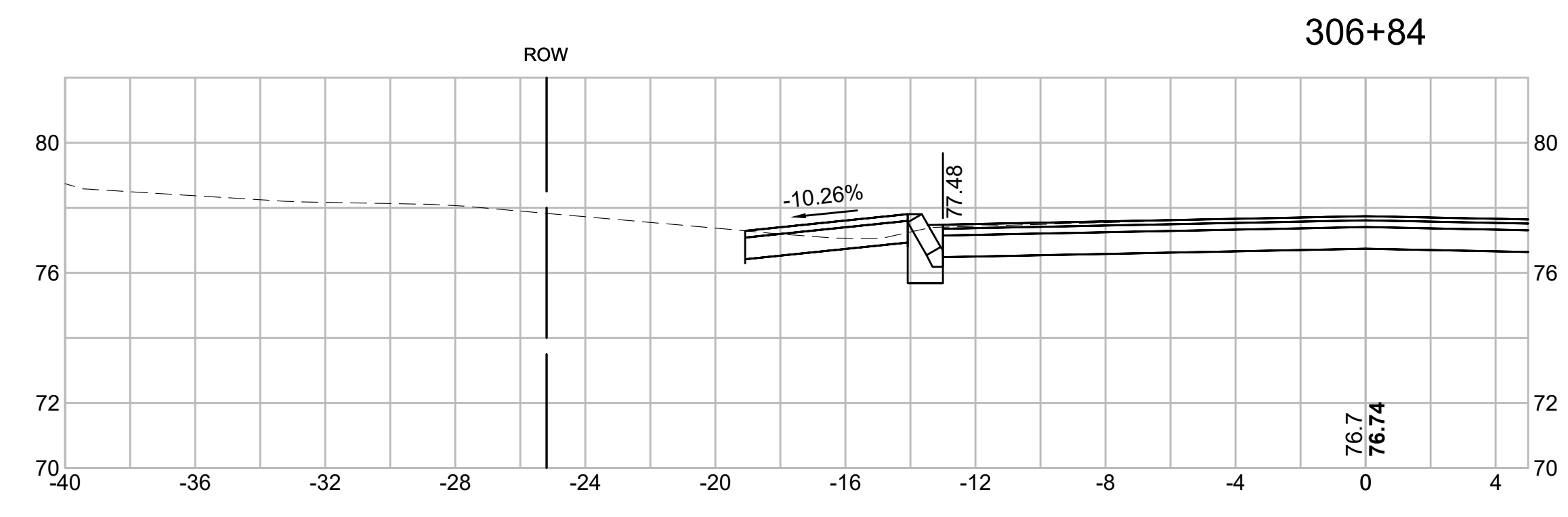
**FAIRVIEW
 DRIVE
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00

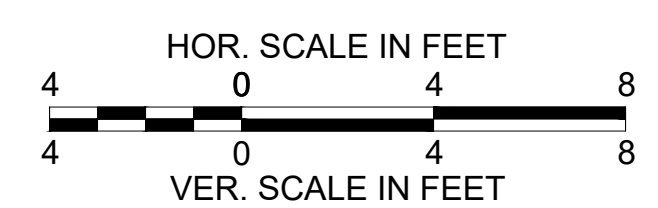
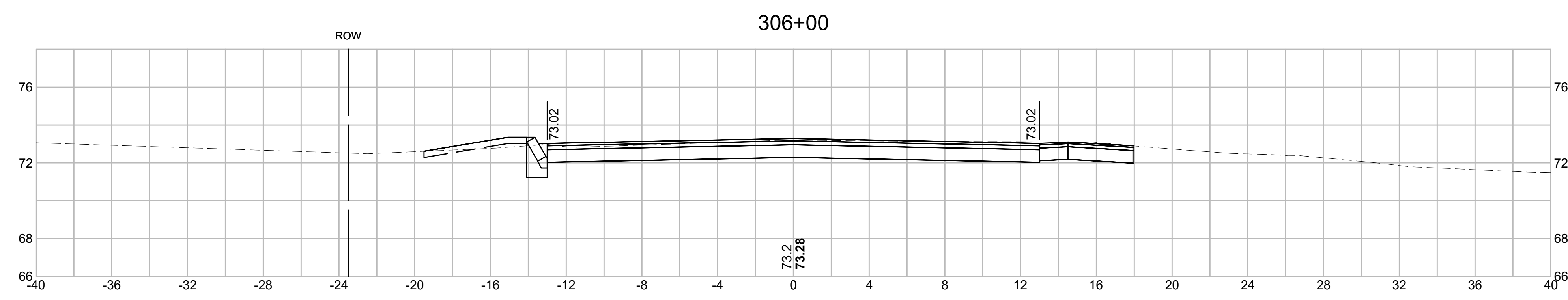
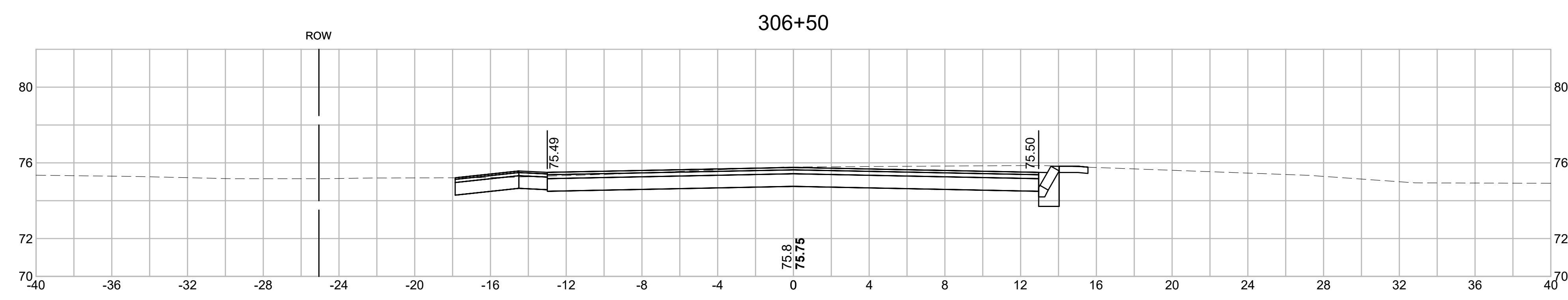
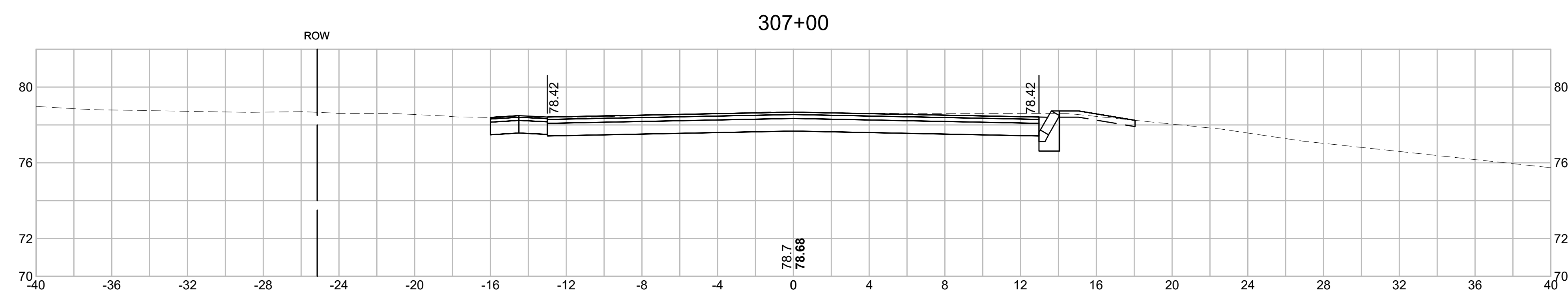


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**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



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1/18/2018

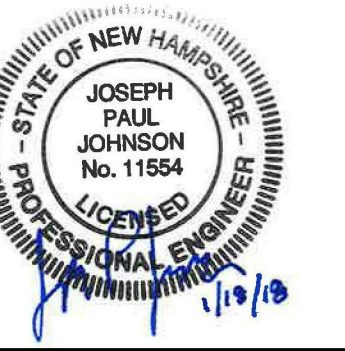
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**FAIRVIEW
 DRIVE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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 WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018

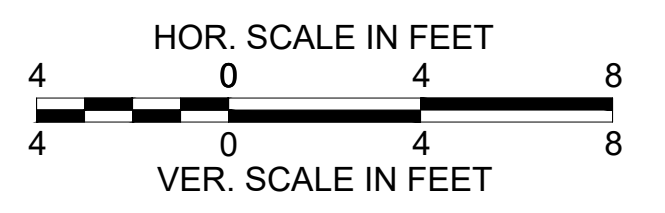
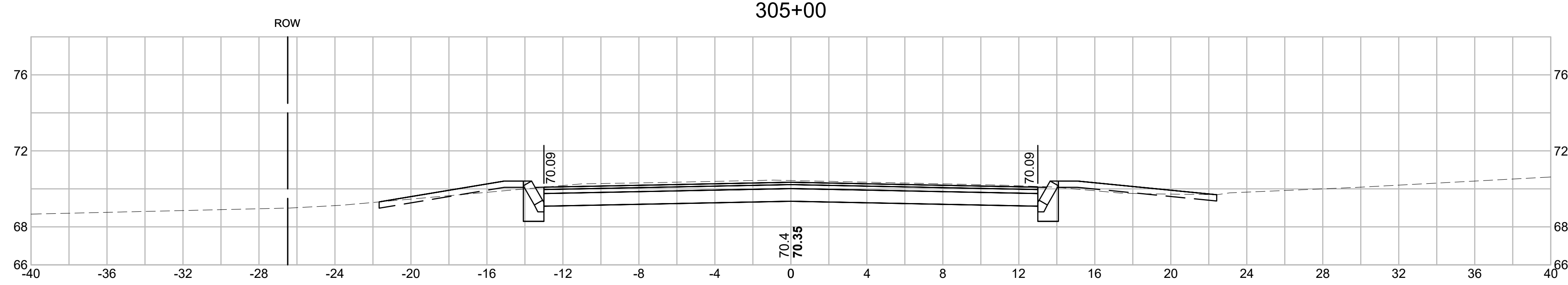
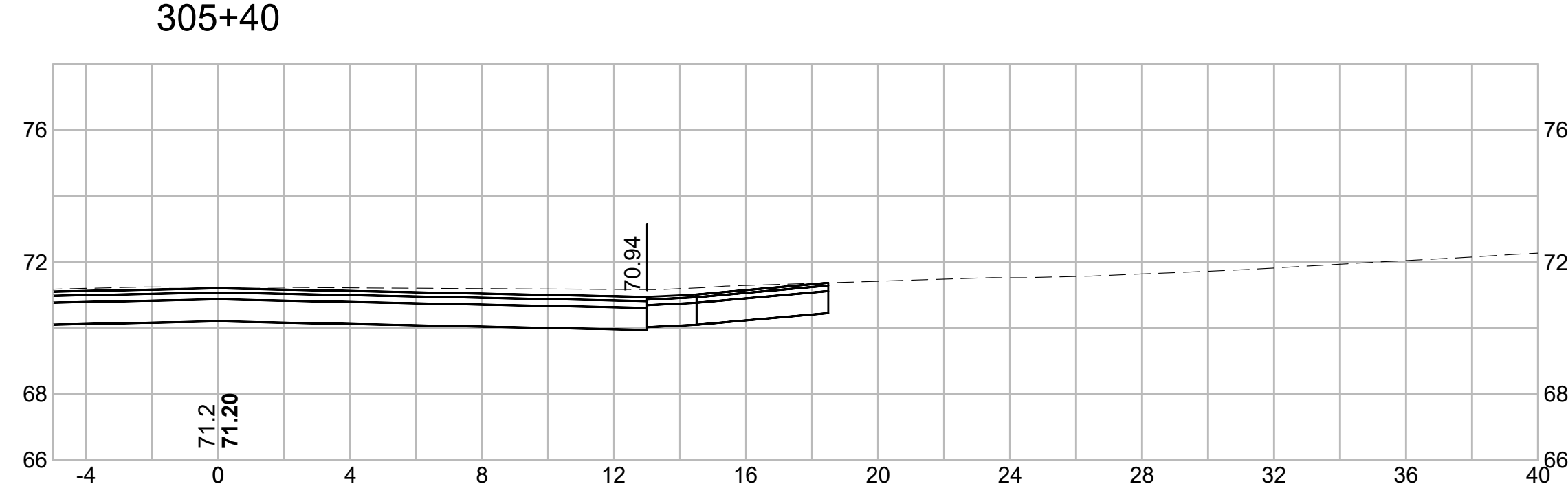
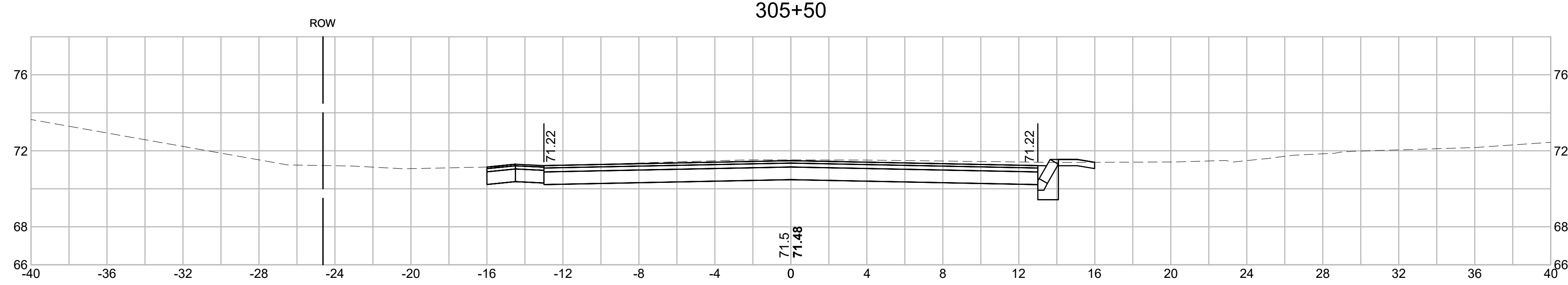
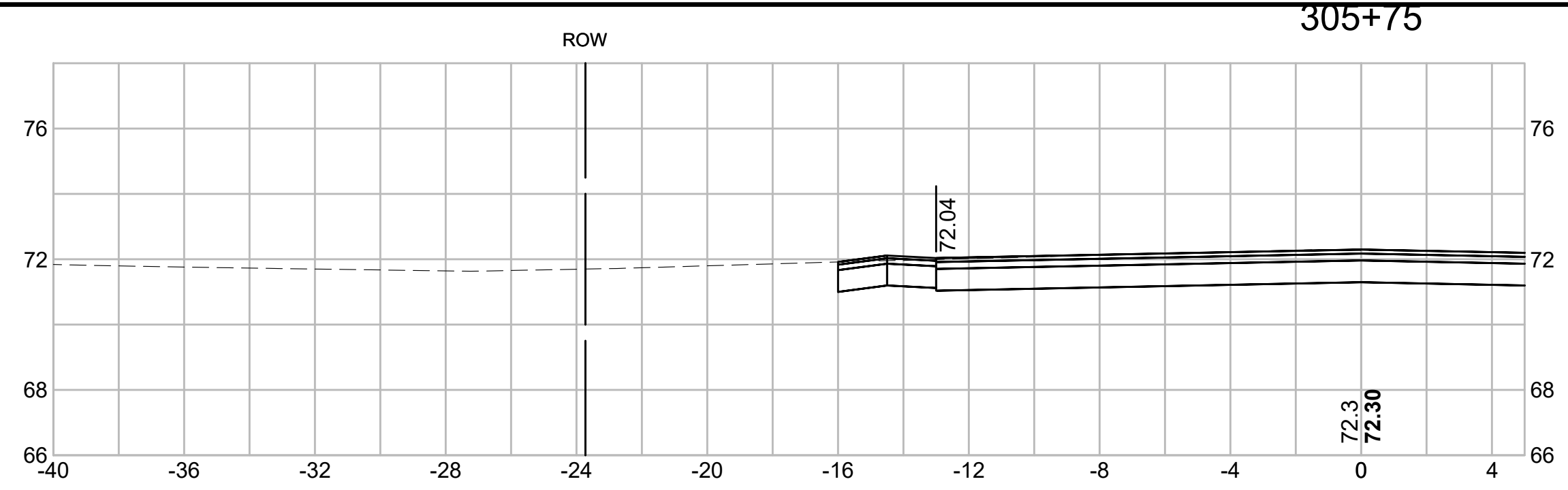
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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**FAIRVIEW
 DRIVE
 CROSS
 SECTIONS**

SCALE: 1"=4'

2015086.00

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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

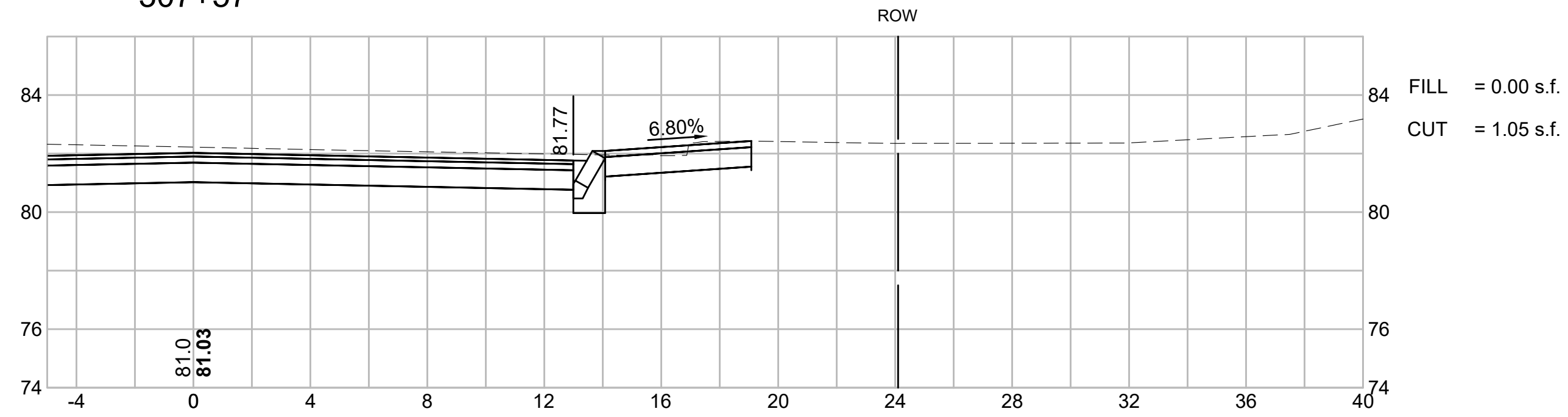
REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

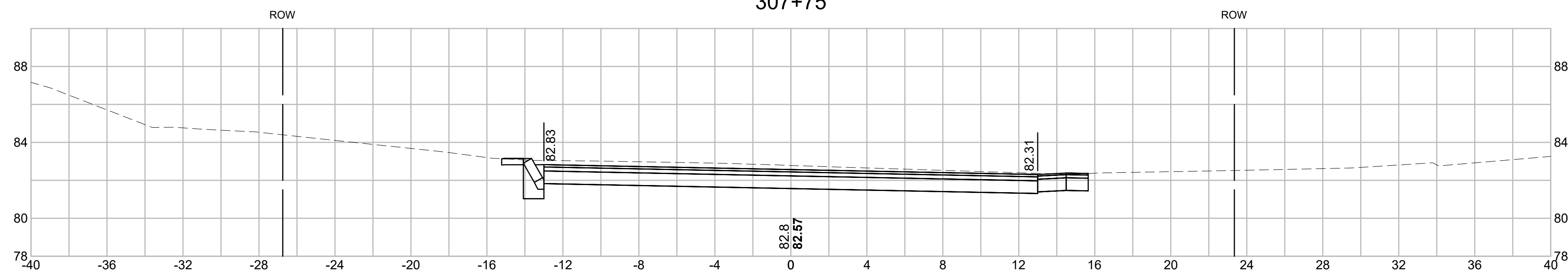
**FAIRVIEW
 DRIVE
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00
 136 OF 184

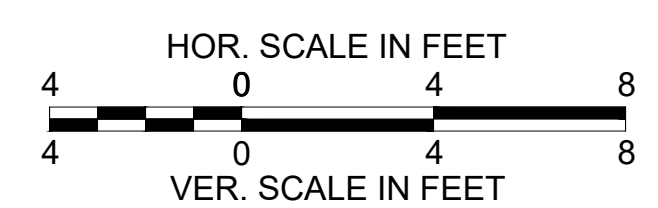
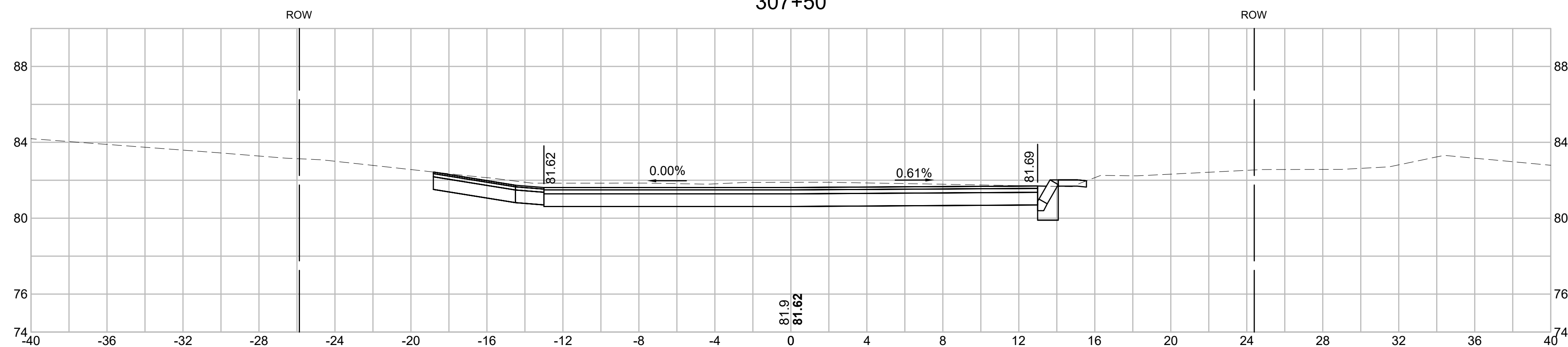
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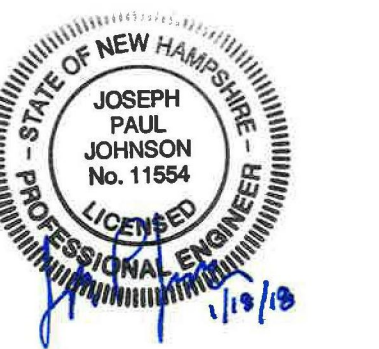


307+75



307+50





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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

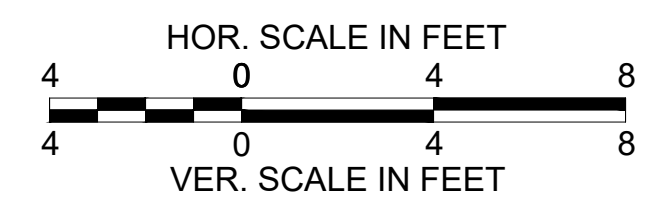
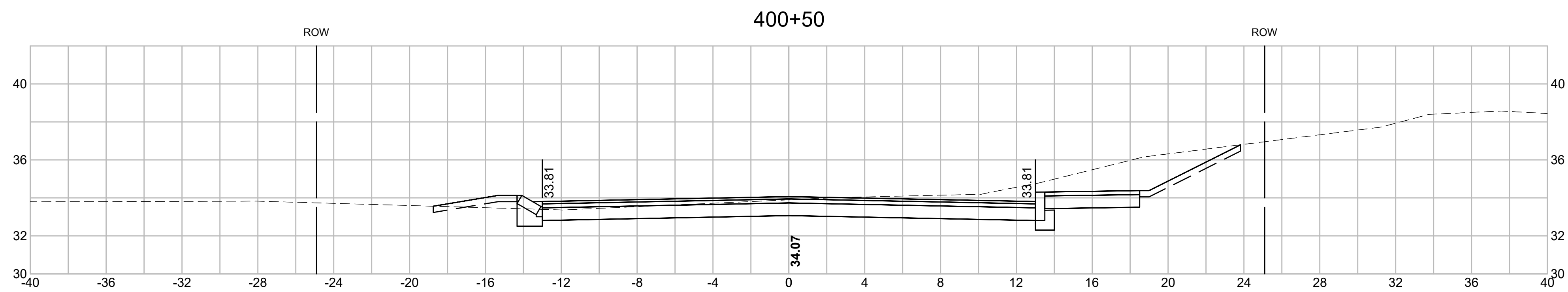
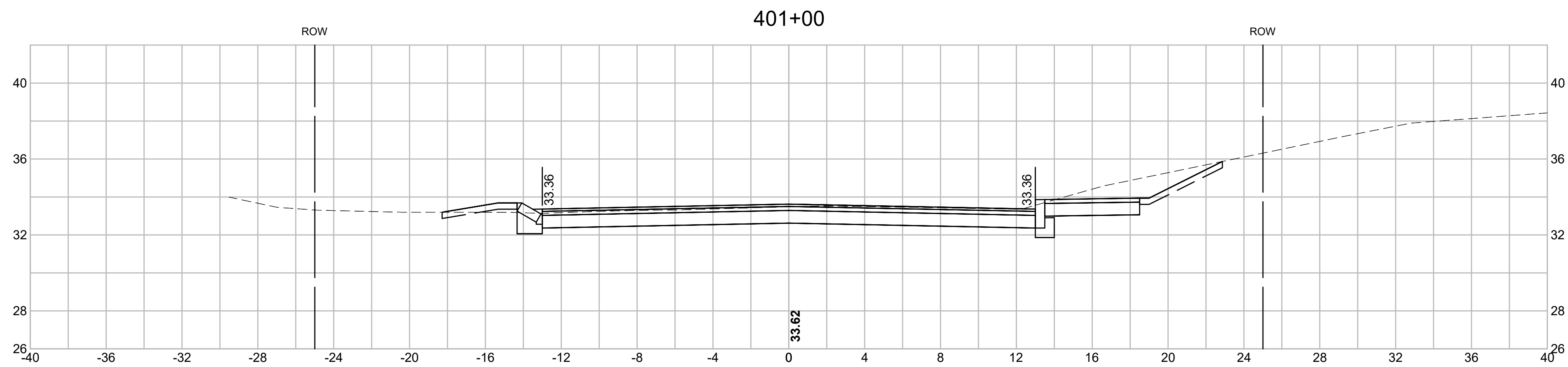
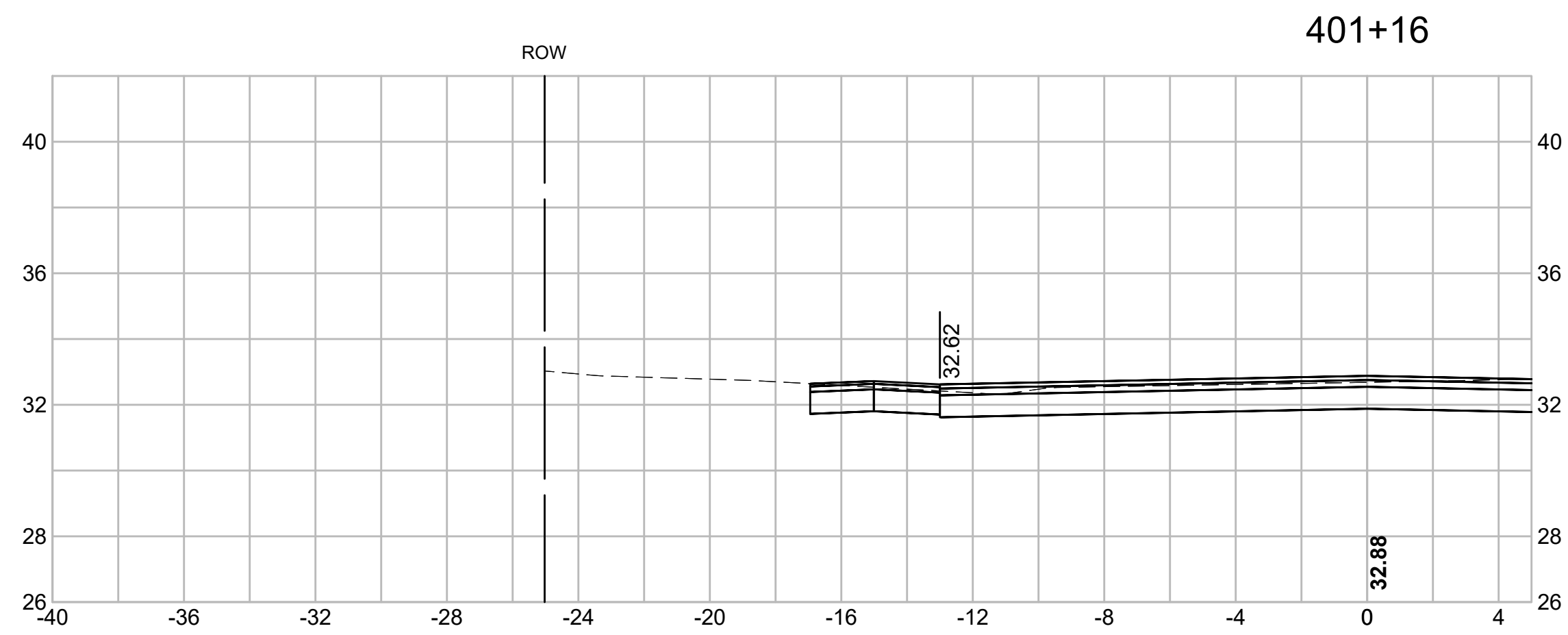
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

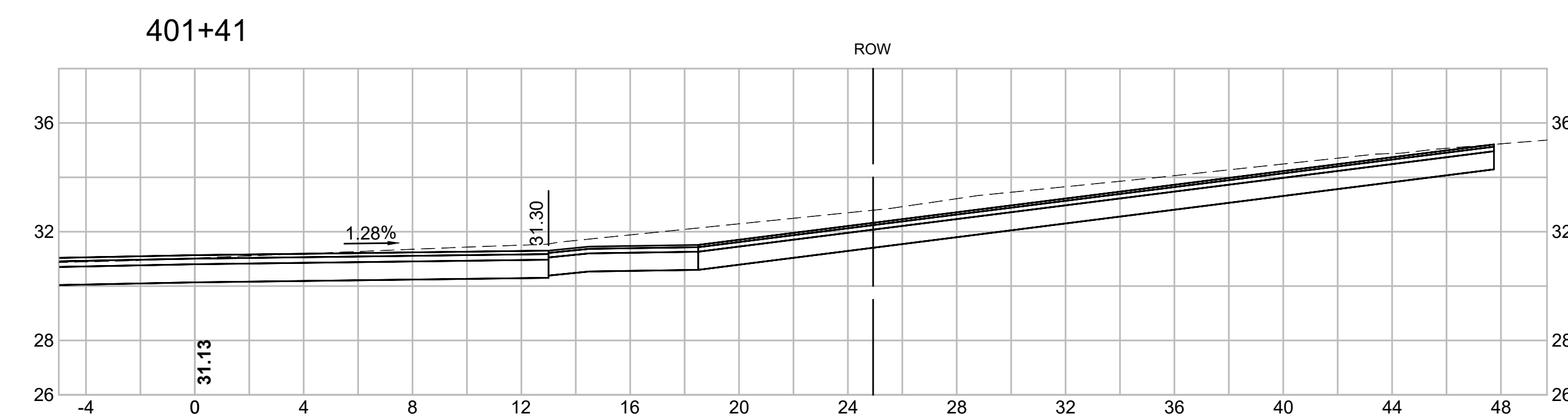
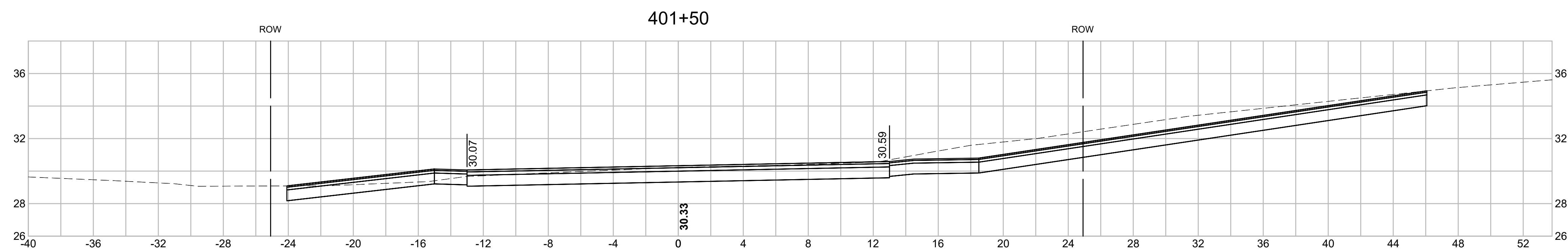
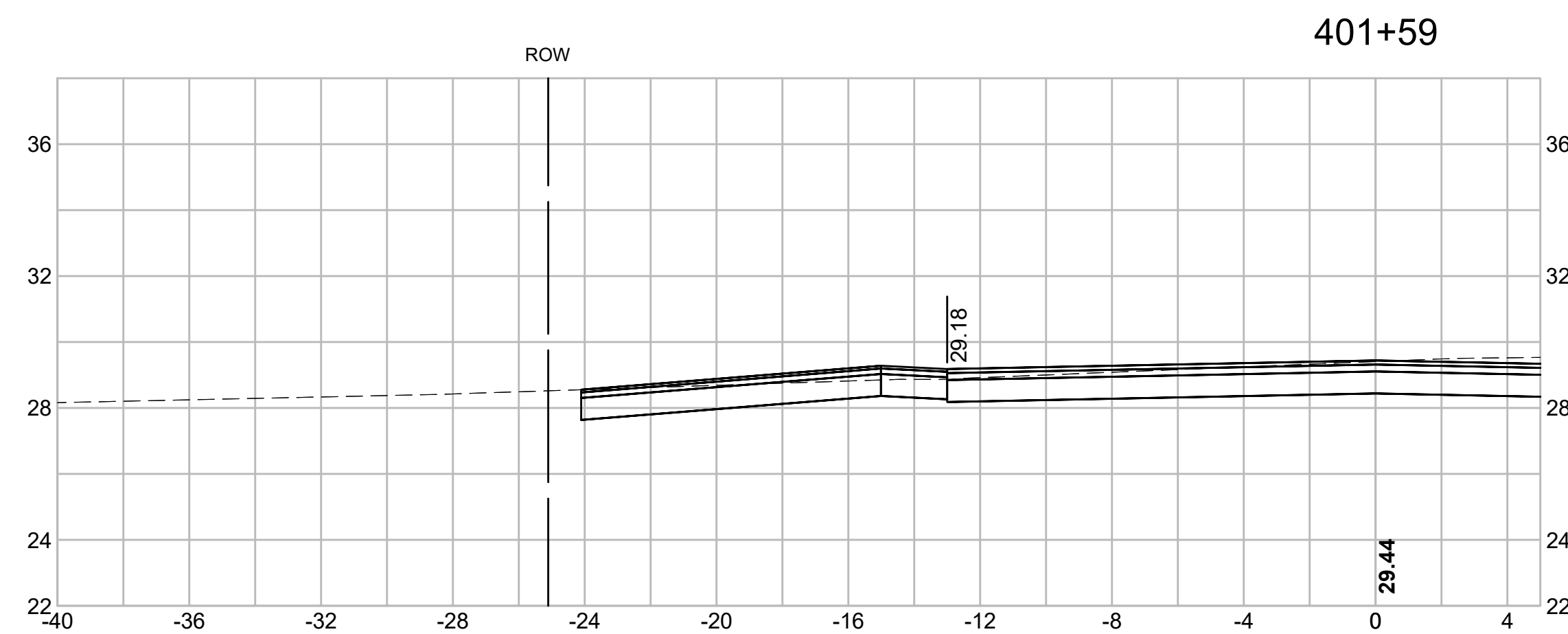
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

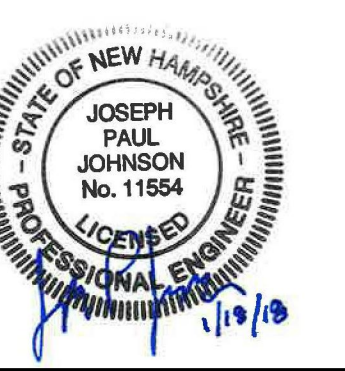
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

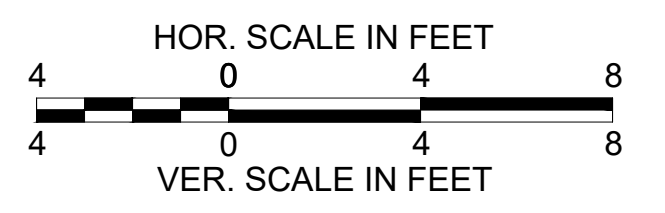
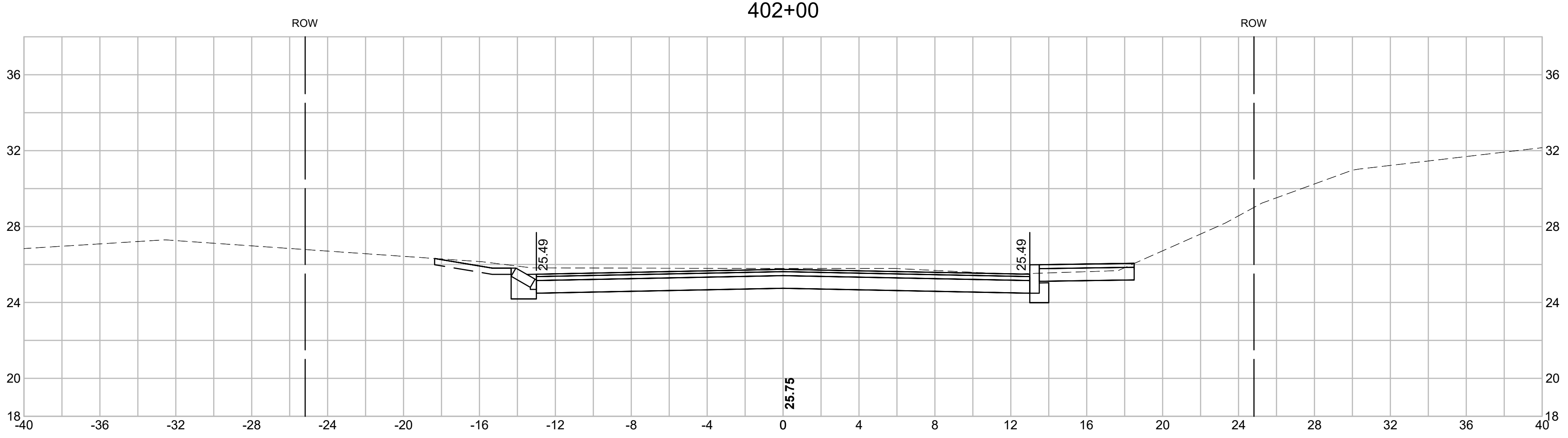
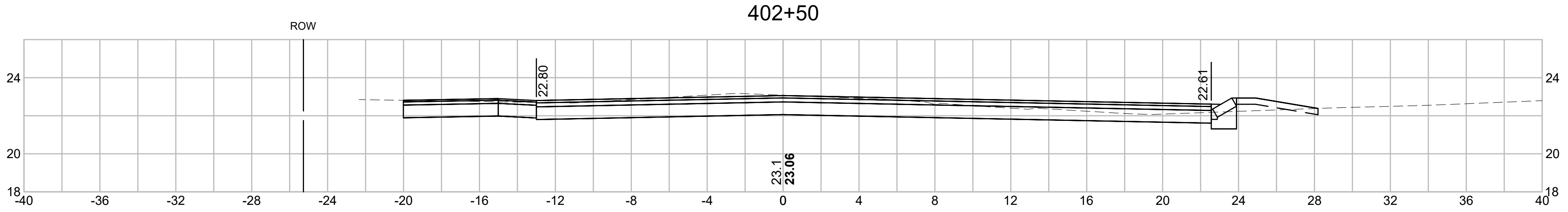
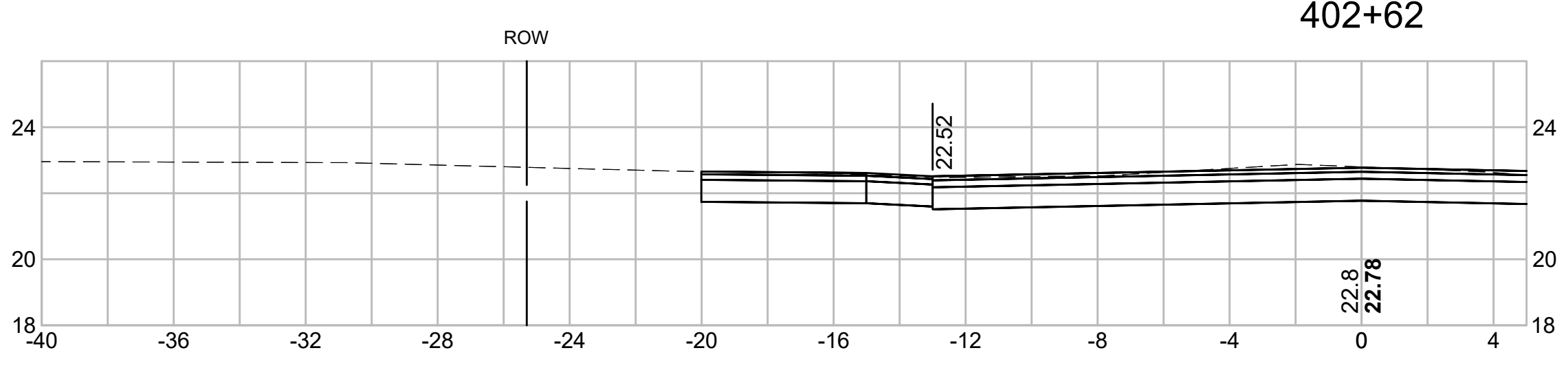
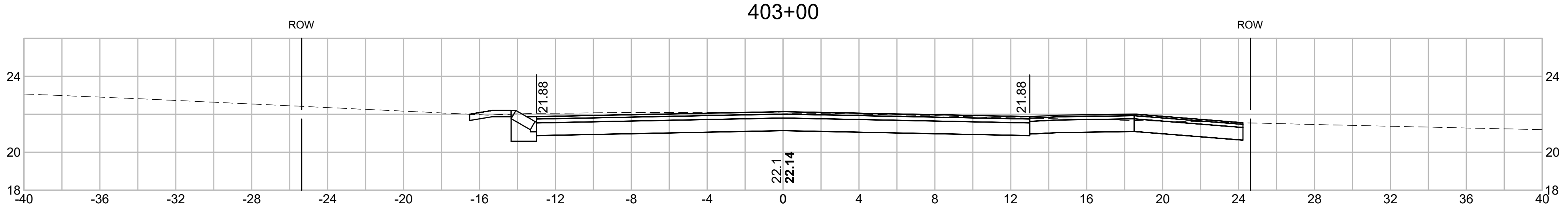
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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**CENTRAL
 AVENUE &
 CUTTS STREET
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 SECTIONS**

SCALE: 1"=4'
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 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

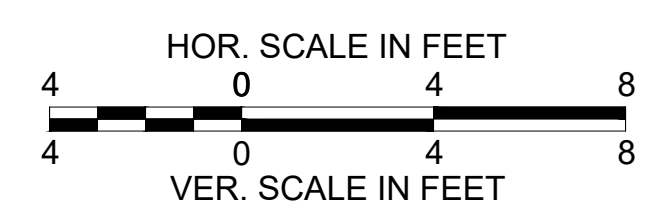
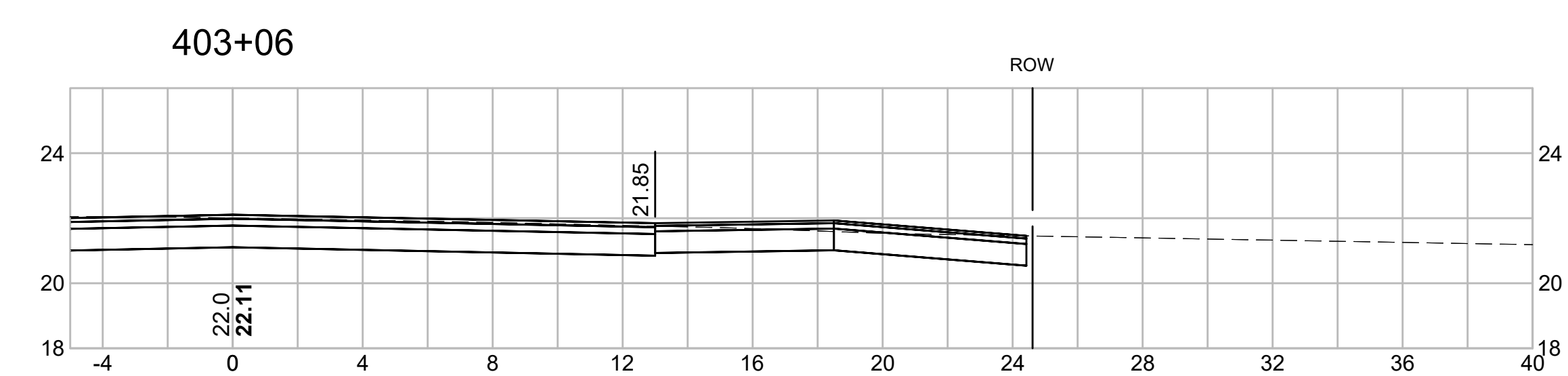
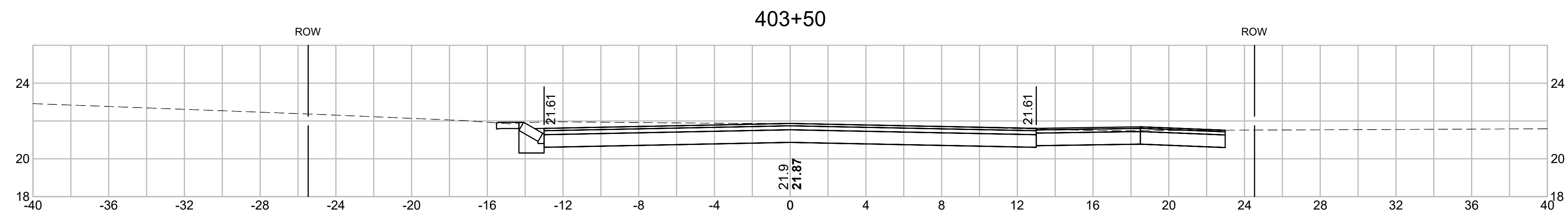
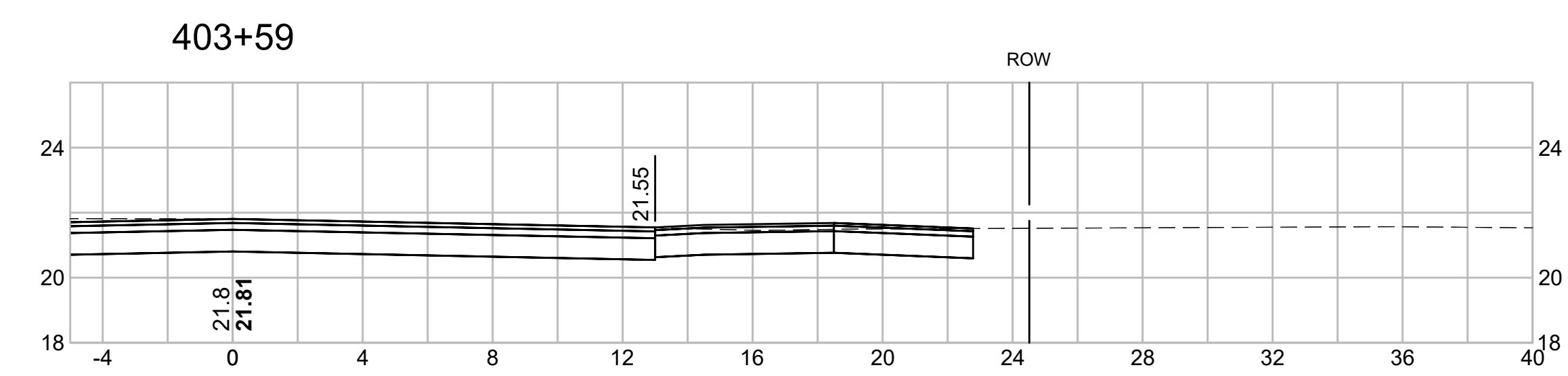
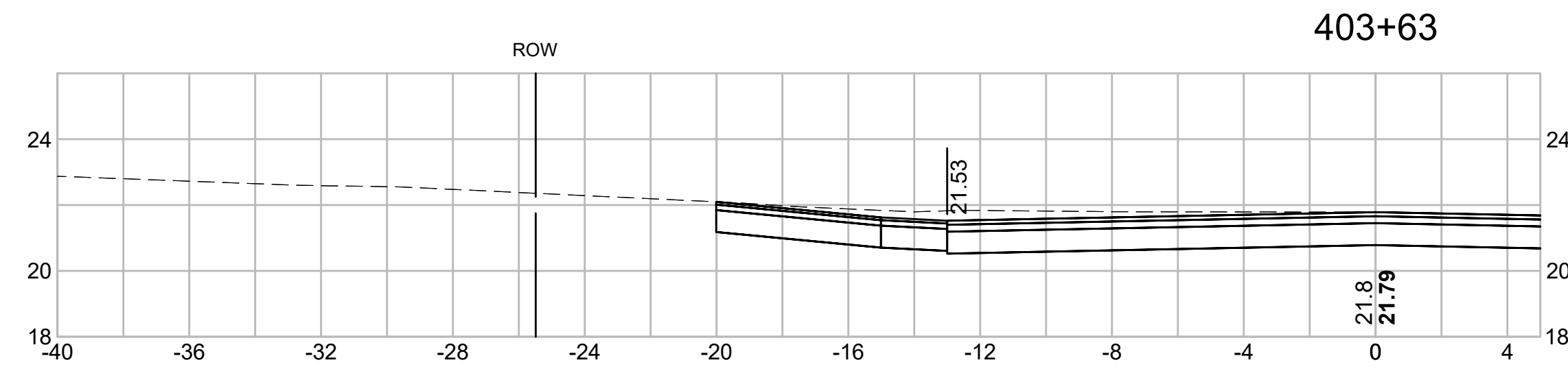
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**CENTRAL
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 SECTIONS**

SCALE: 1"=4'
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 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

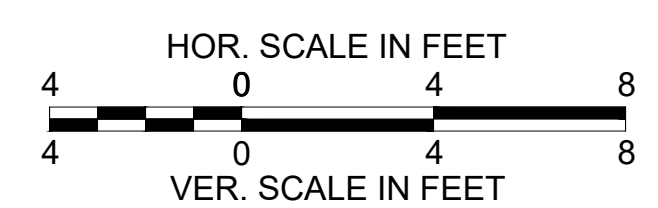
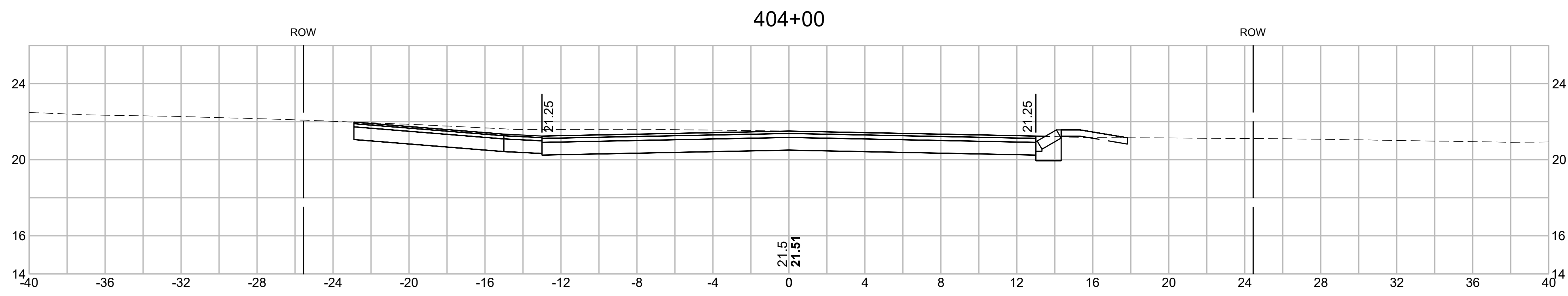
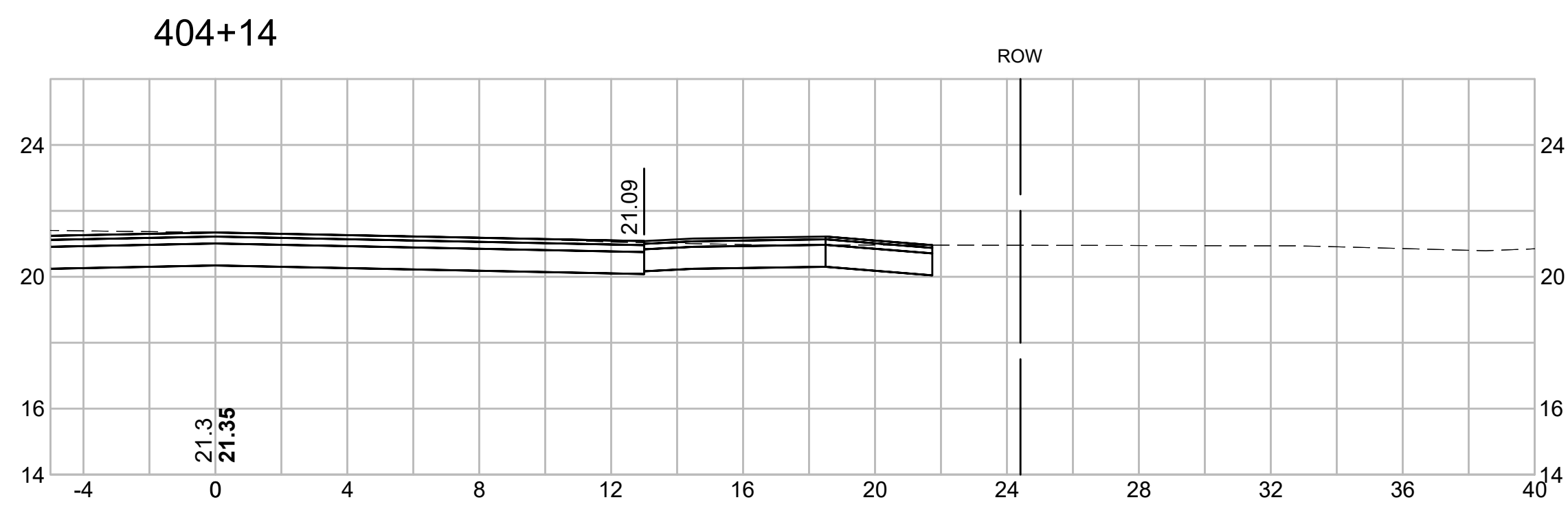
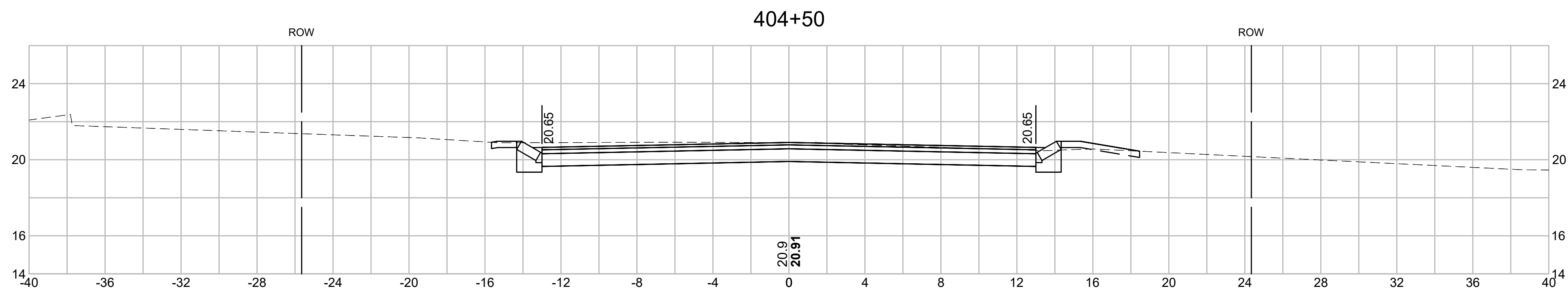
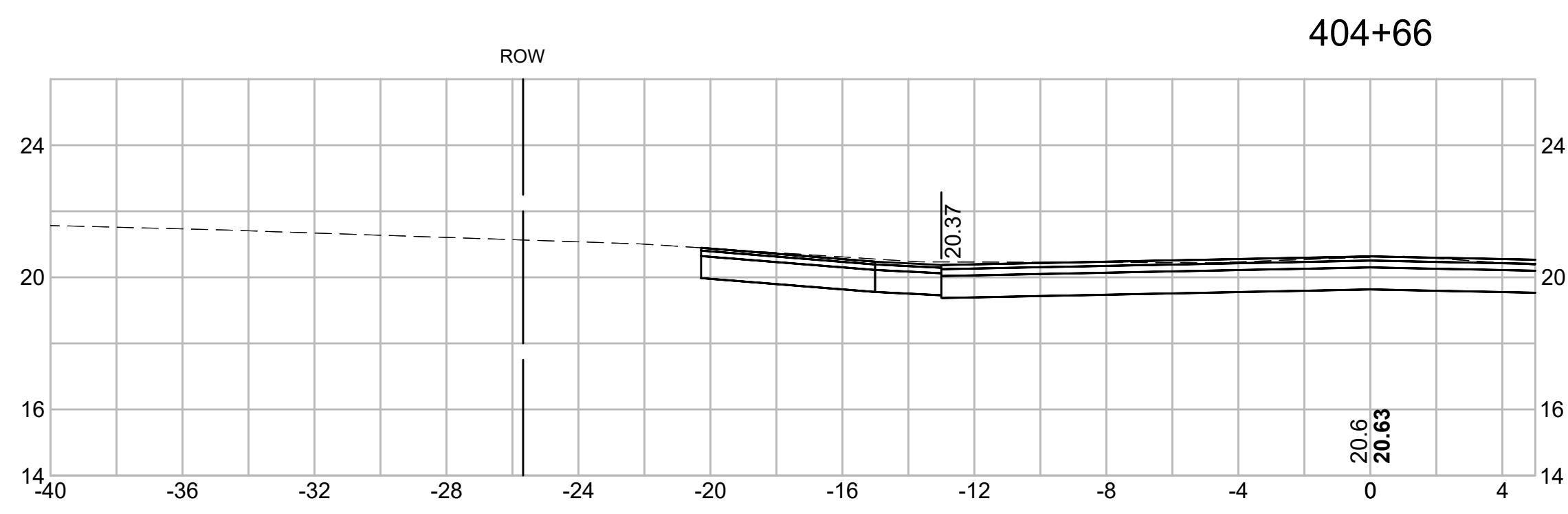
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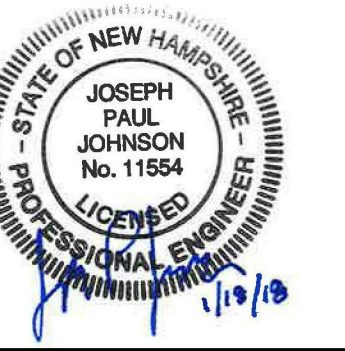
1/18/2018

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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

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 2015086.00





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 WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

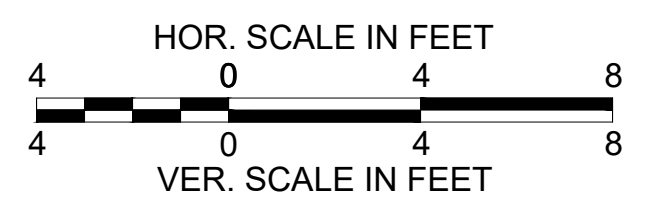
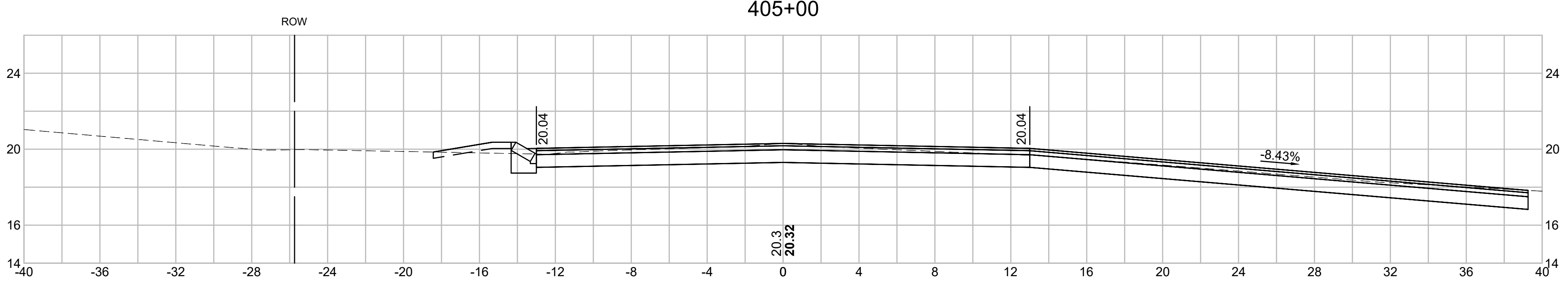
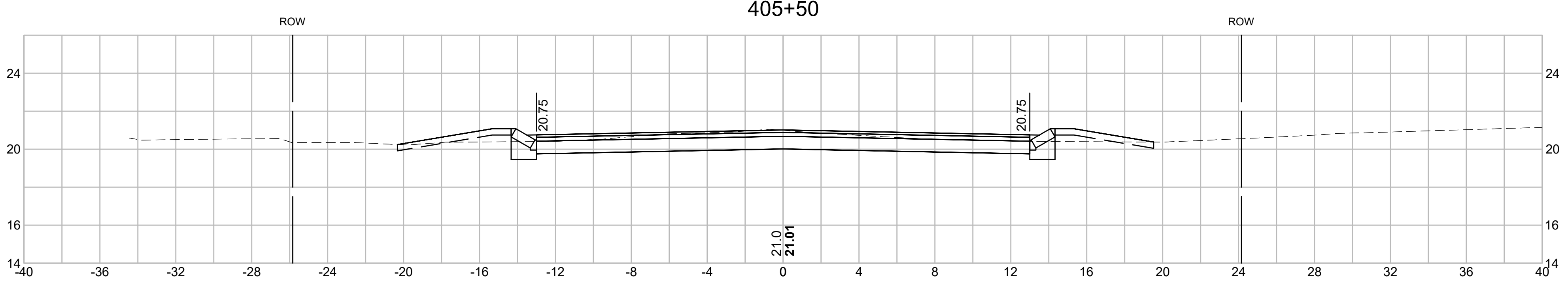
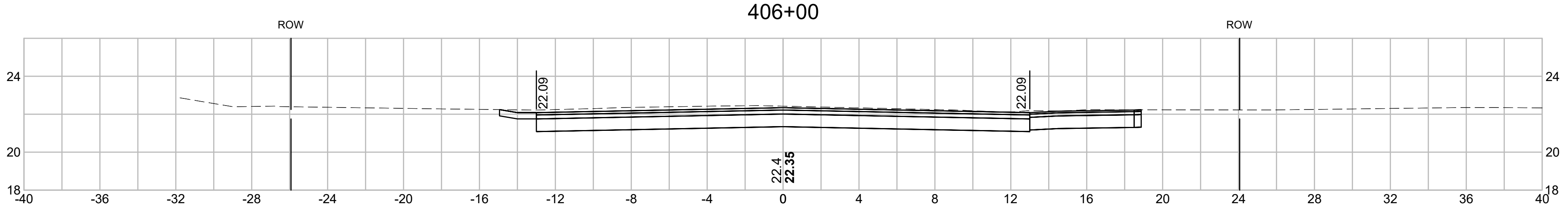
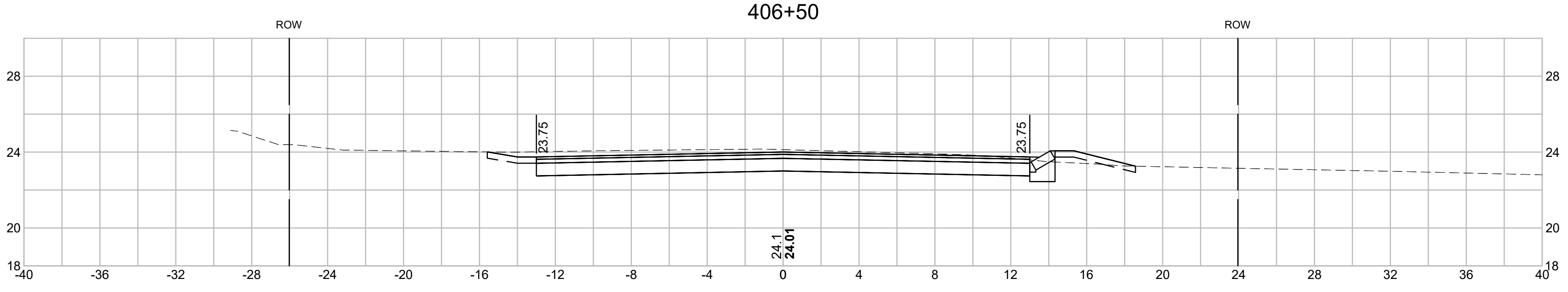
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
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 SECTIONS**

SCALE: 1"=4'
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 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

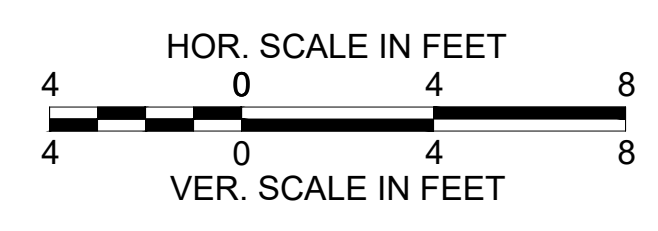
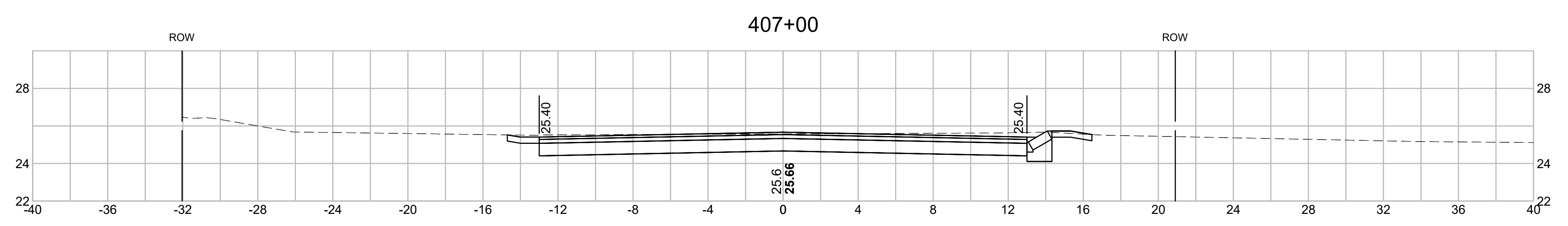
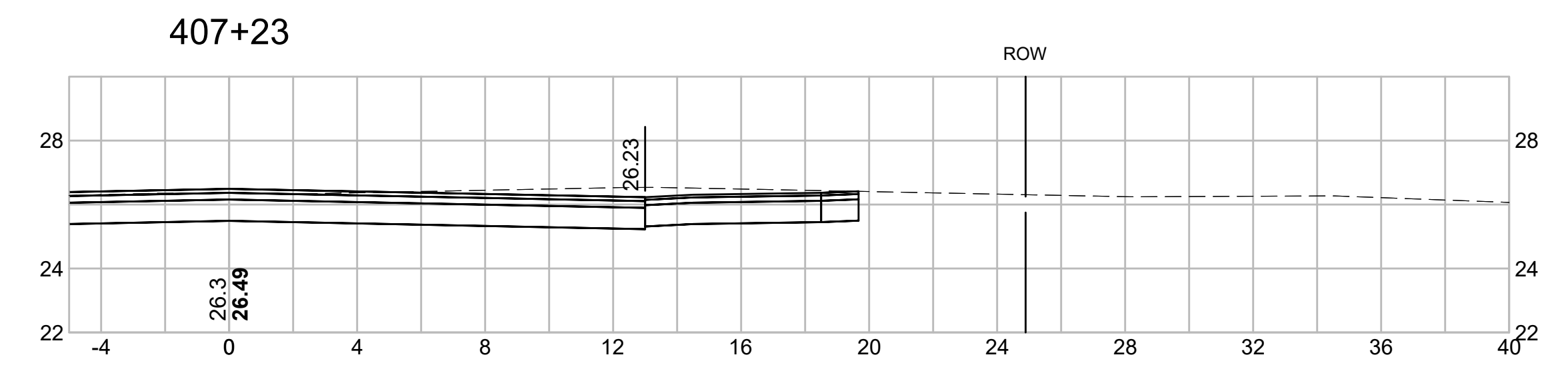
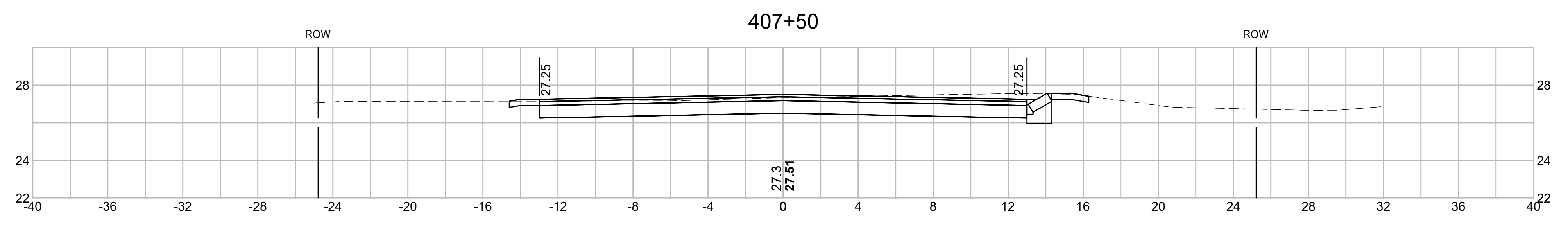
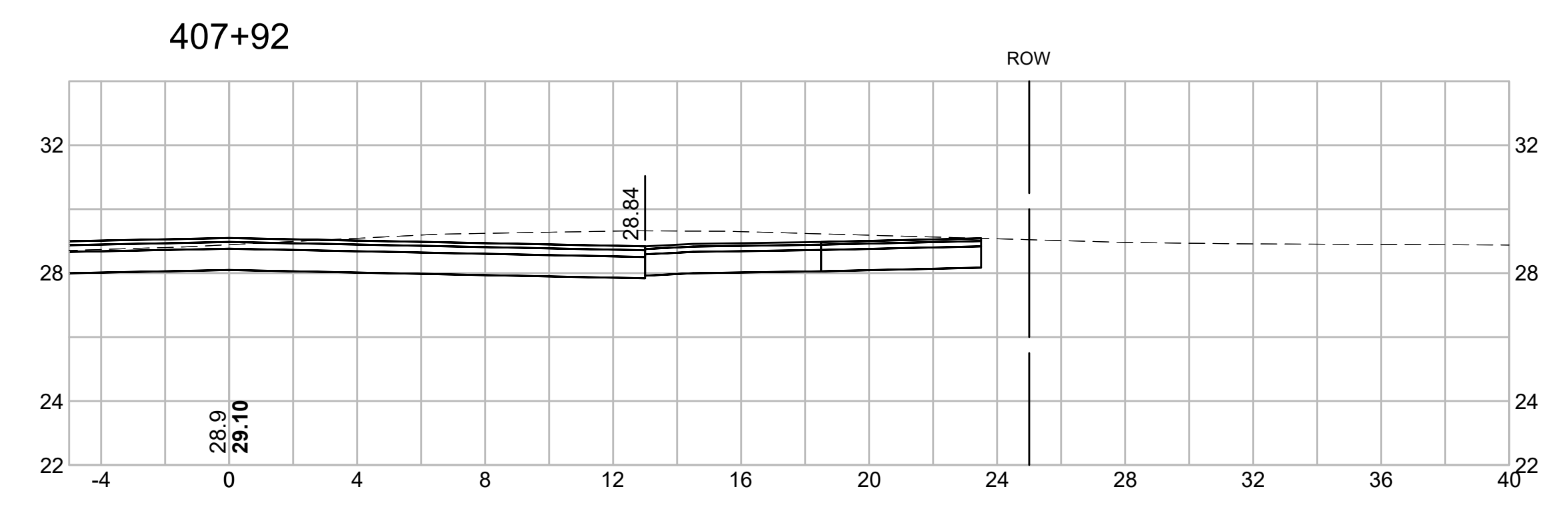
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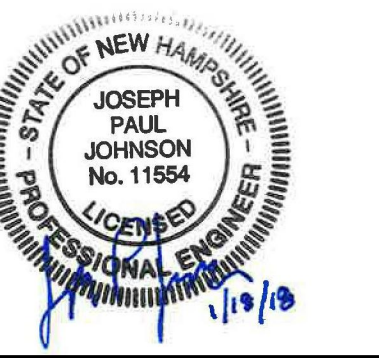
1/18/2018

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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00
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 WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

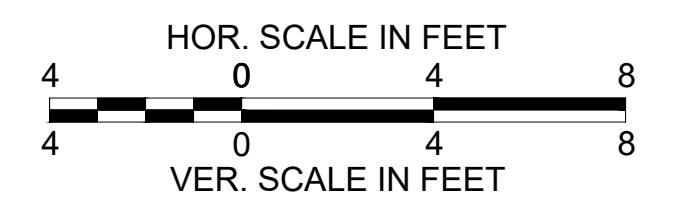
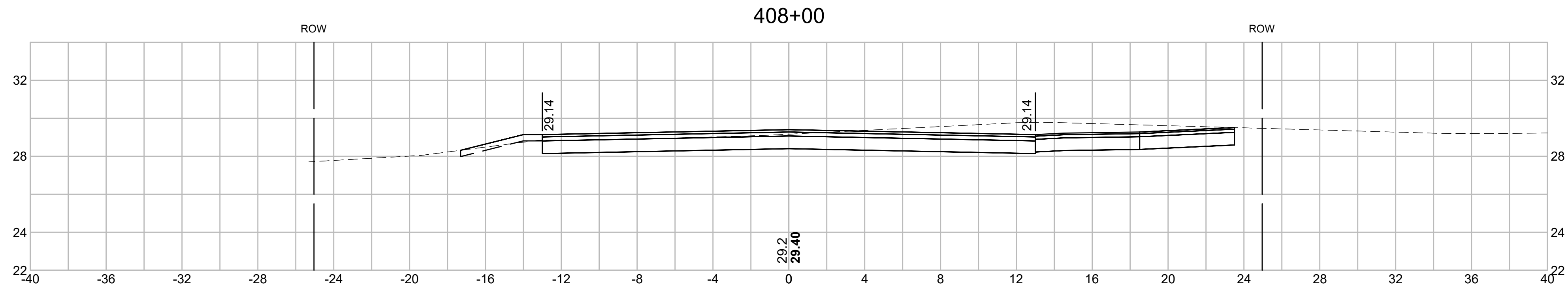
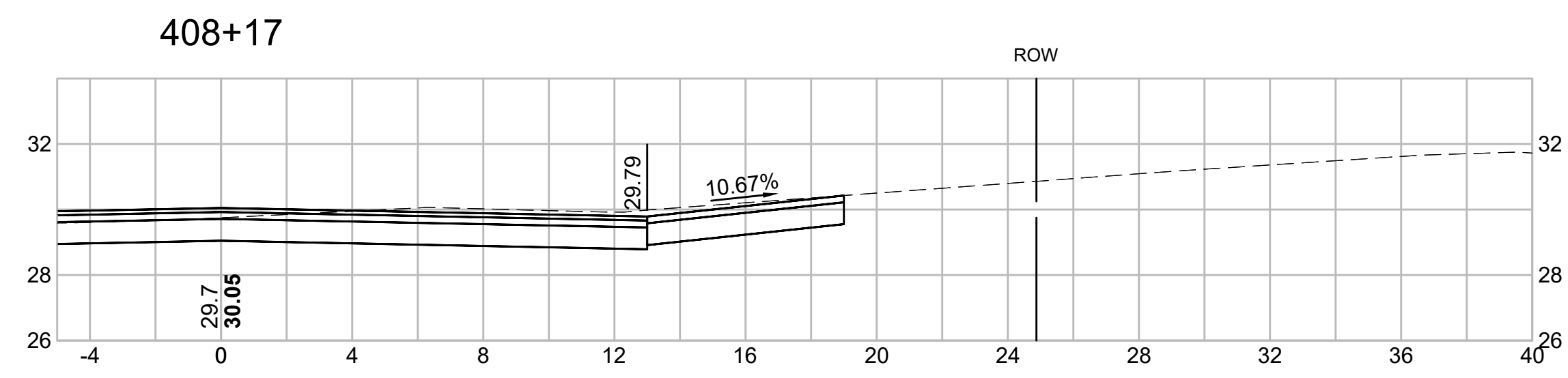
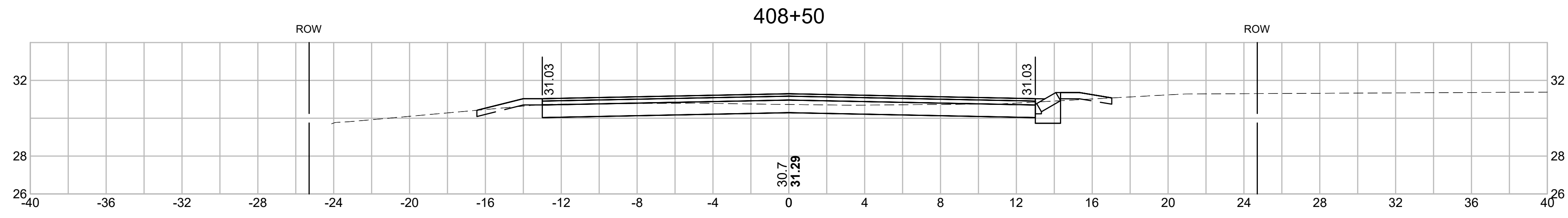
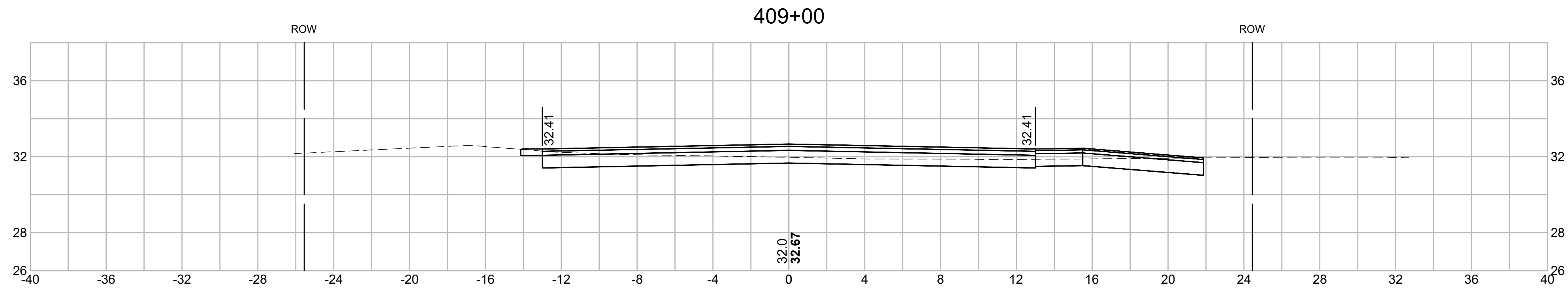
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
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 SECTIONS**

SCALE: 1"=4'
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 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

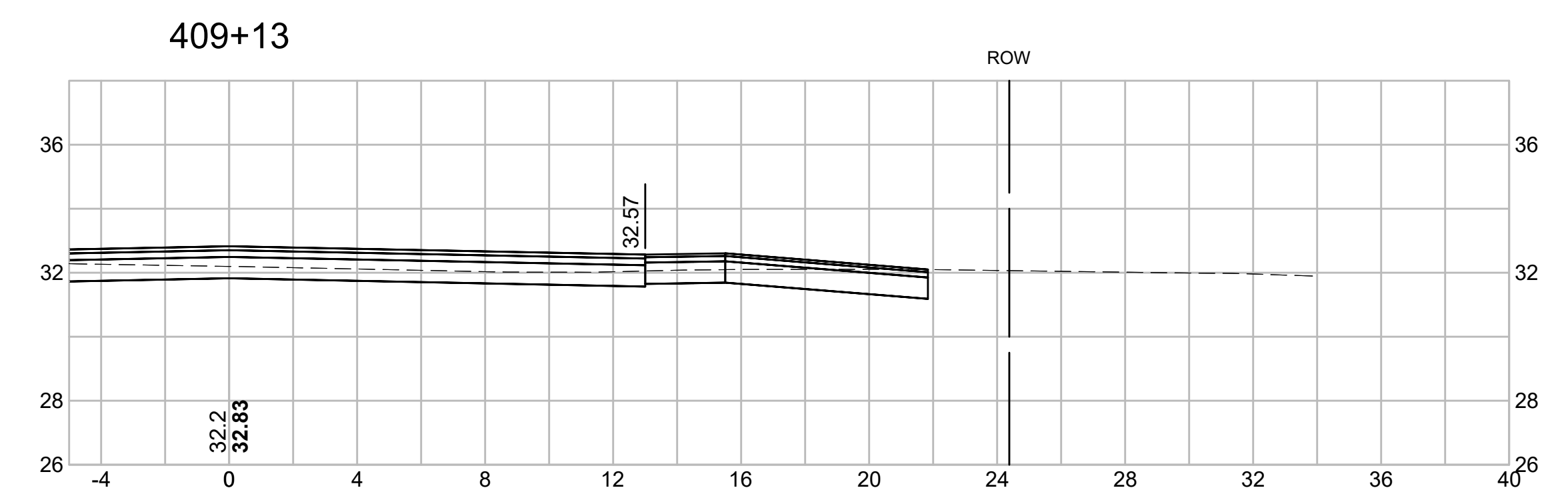
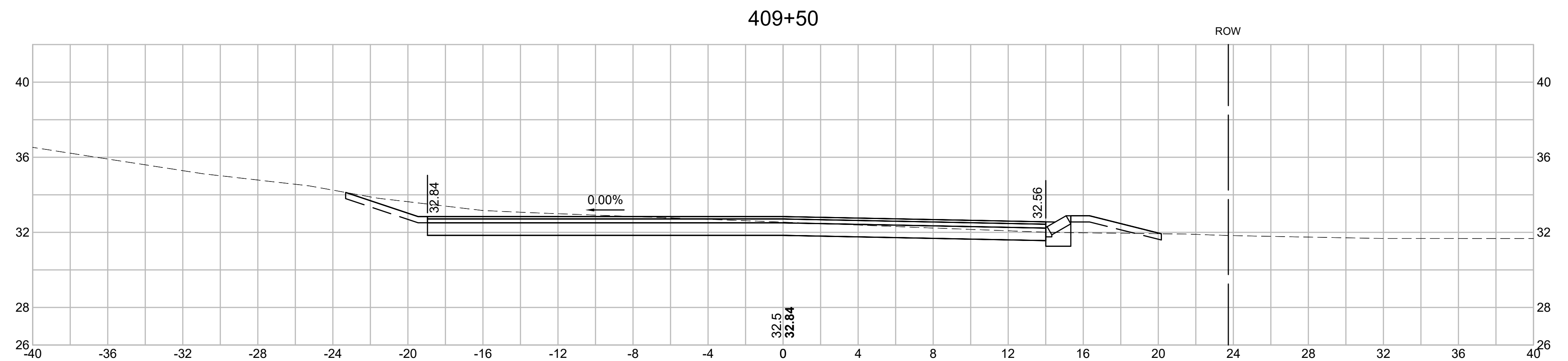
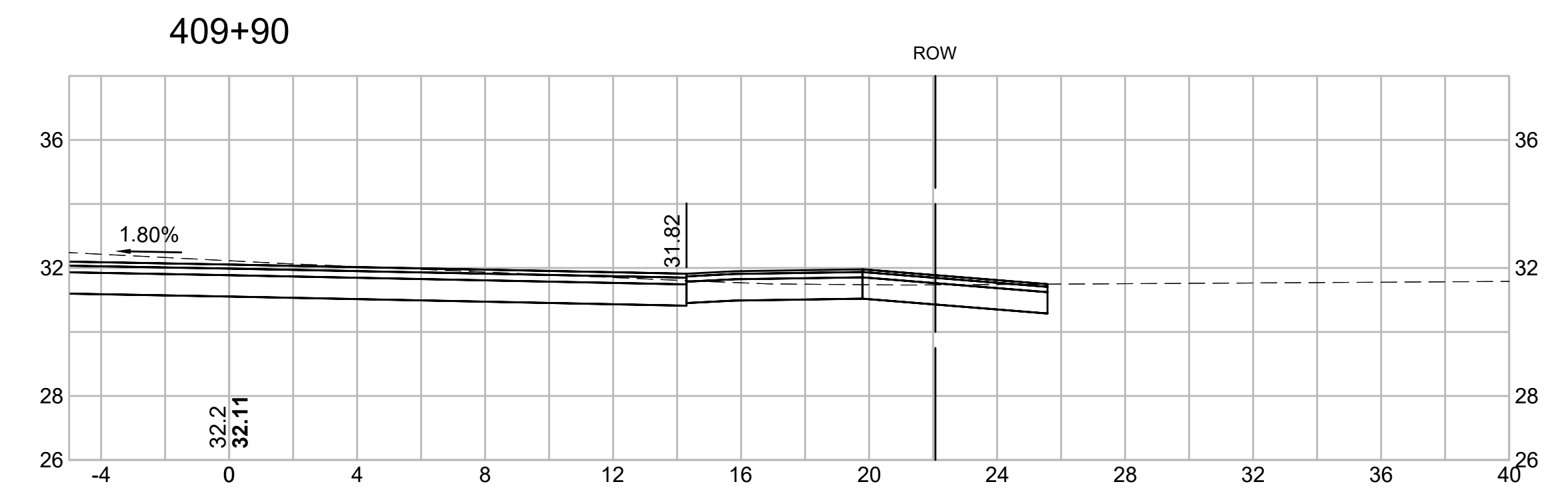
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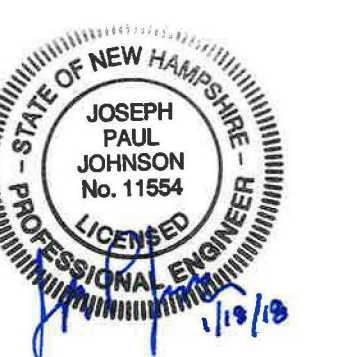
1/18/2018

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 AVENUE &
 CUTTS STREET
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

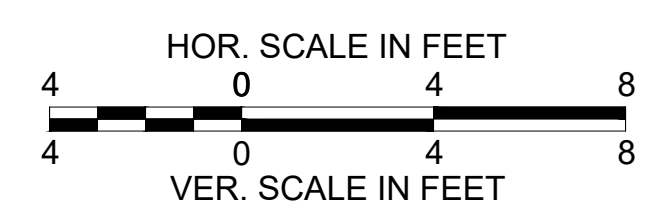
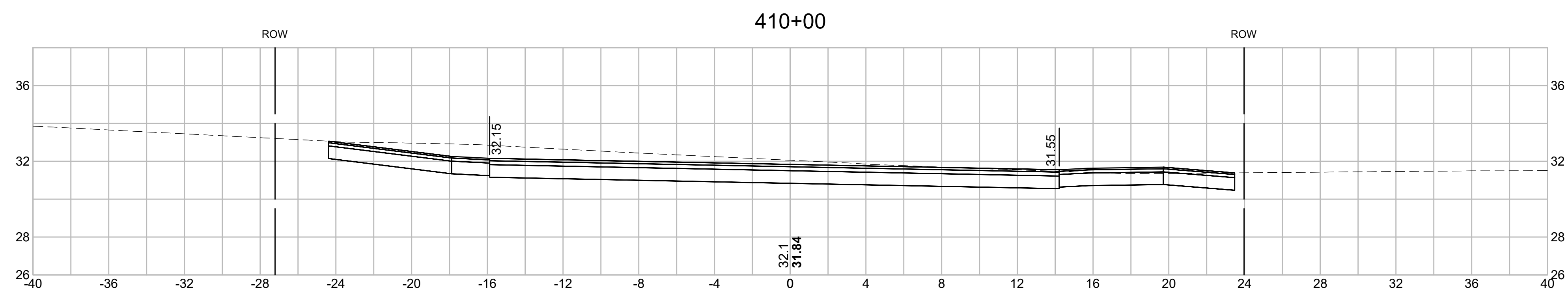
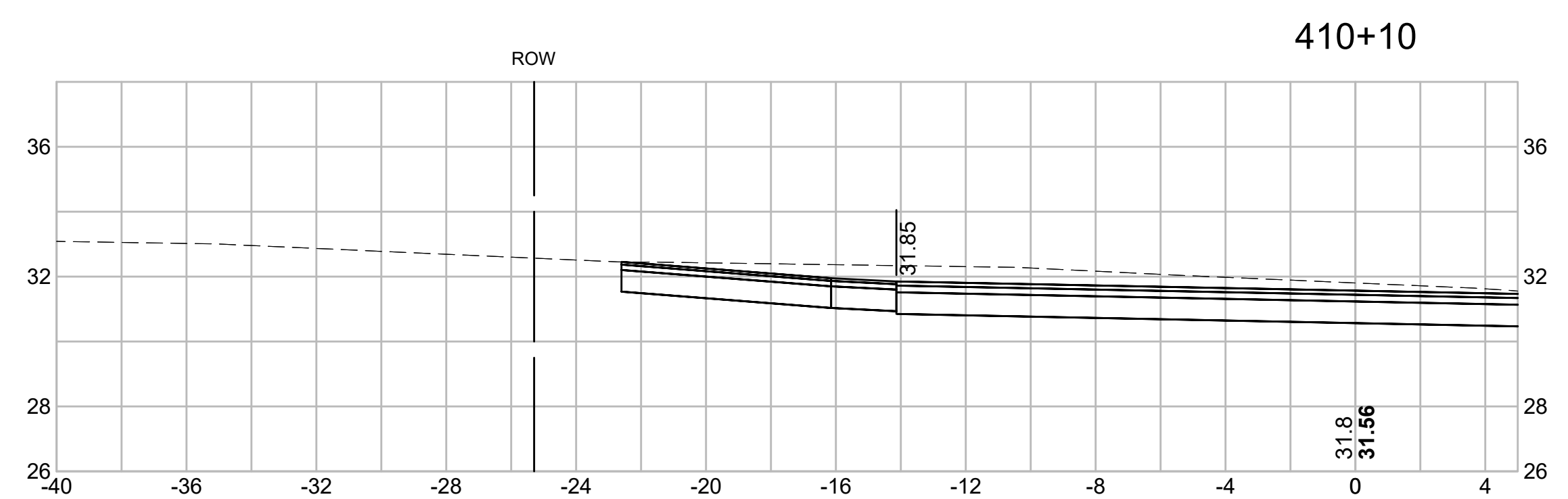
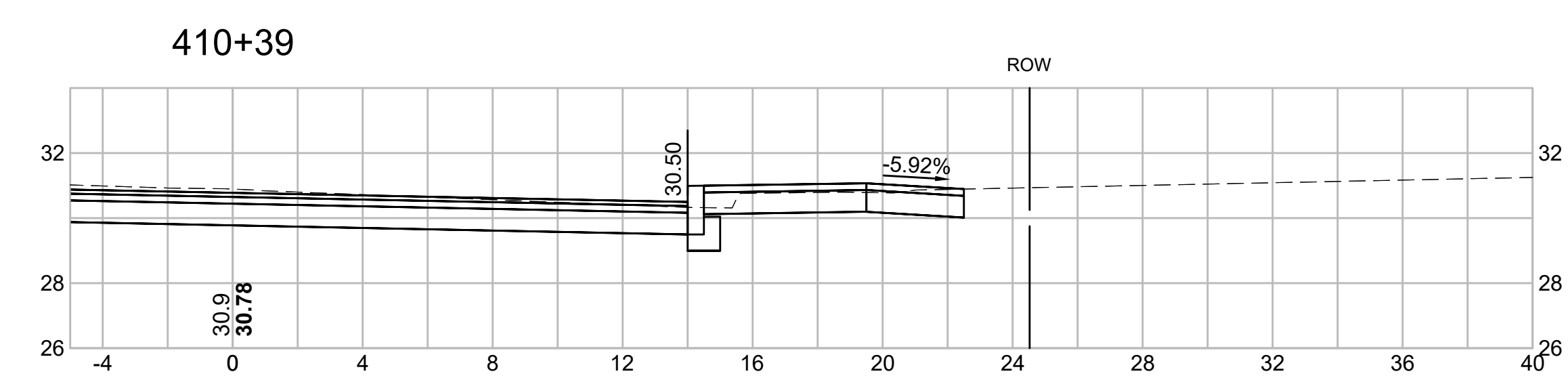
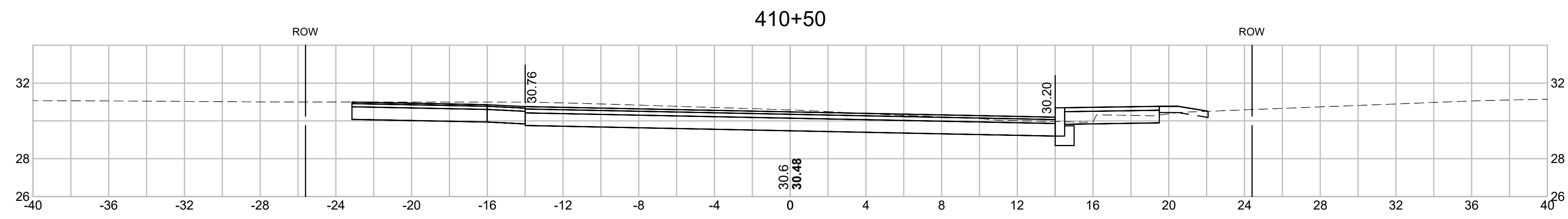
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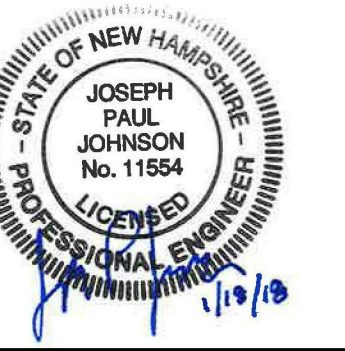
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**CENTRAL
 AVENUE &
 CUTTS STREET
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 680 PEVERLY HILL ROAD
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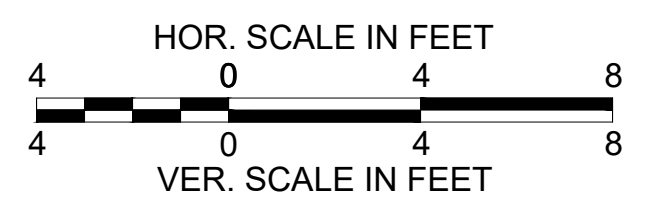
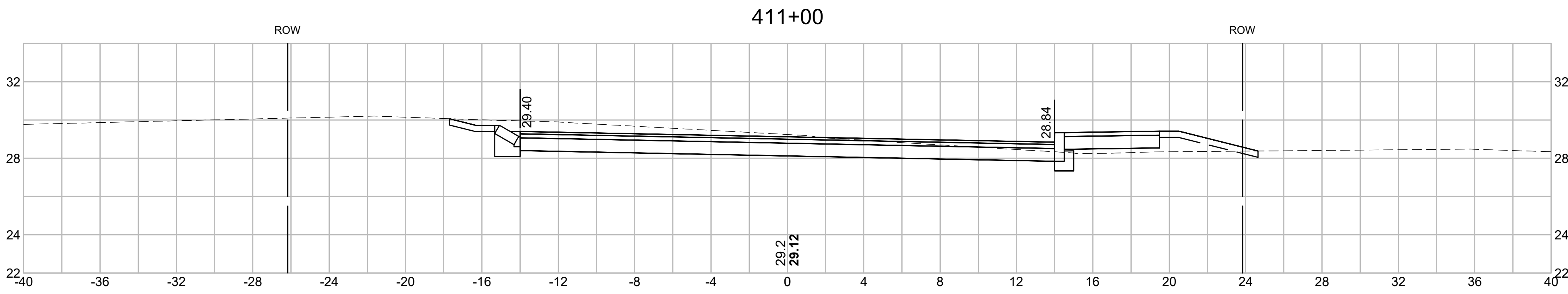
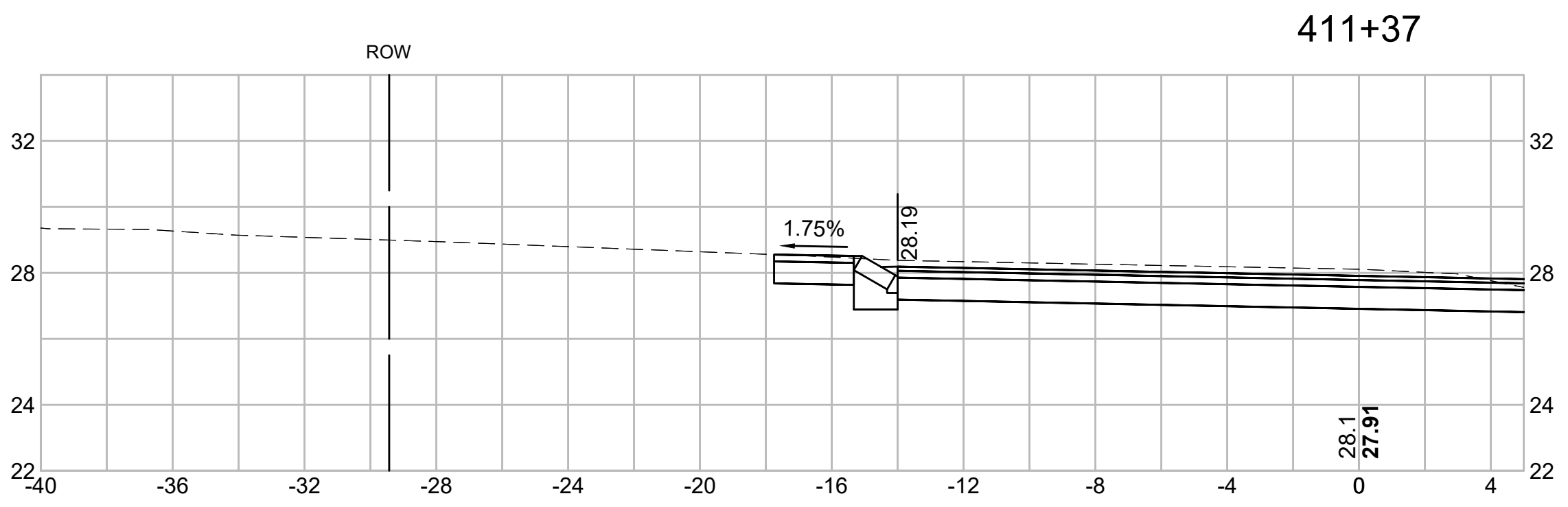
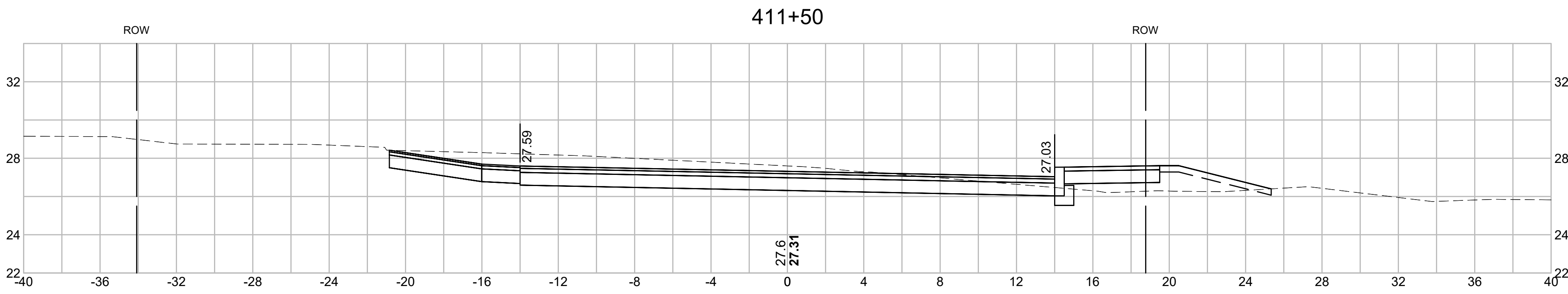
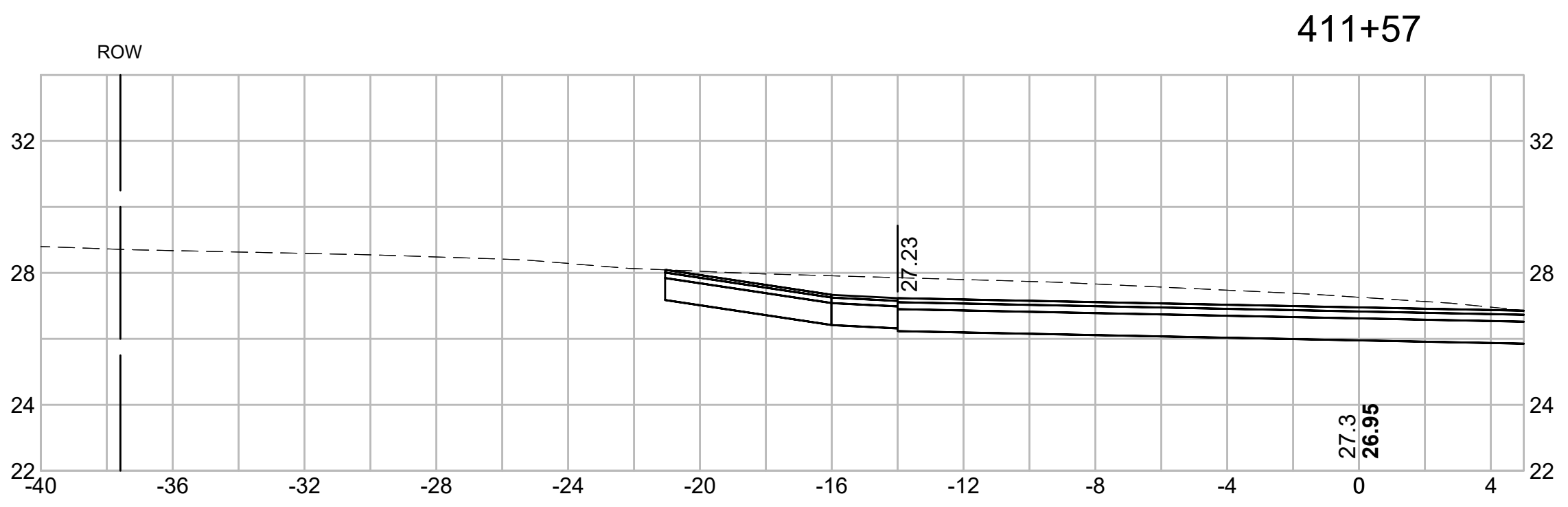
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

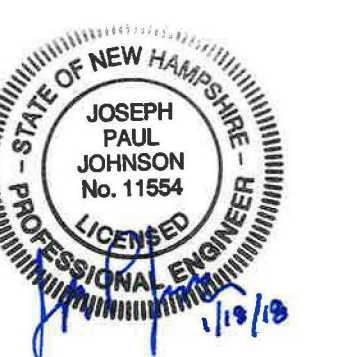
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**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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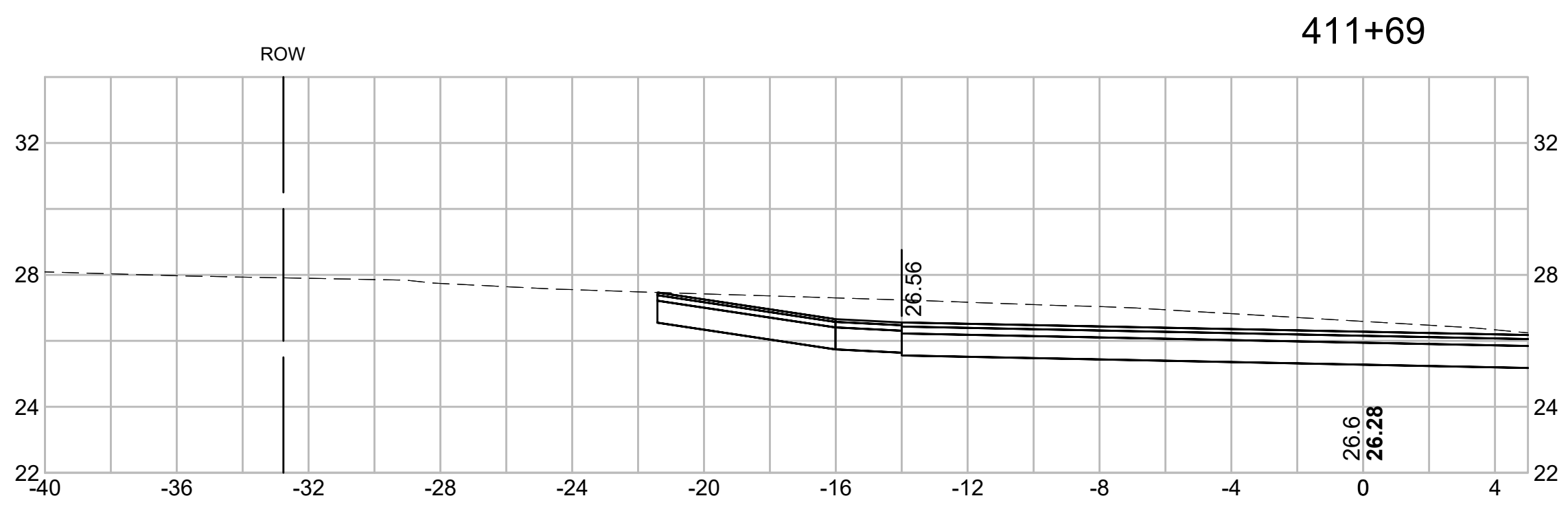
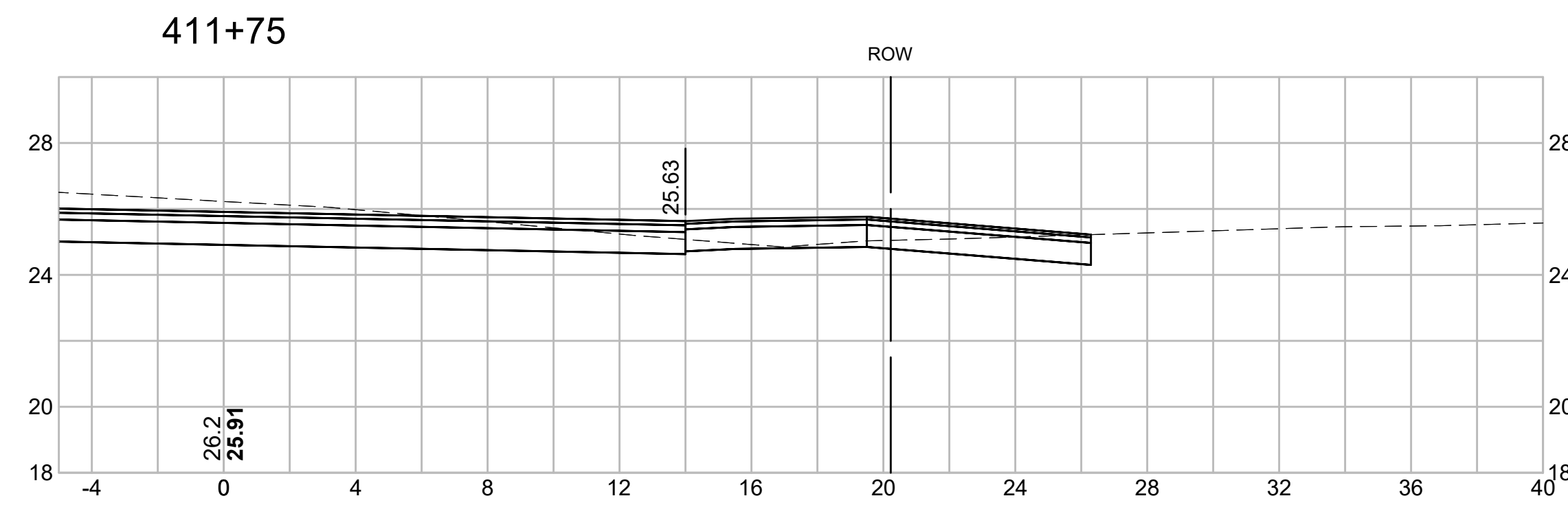
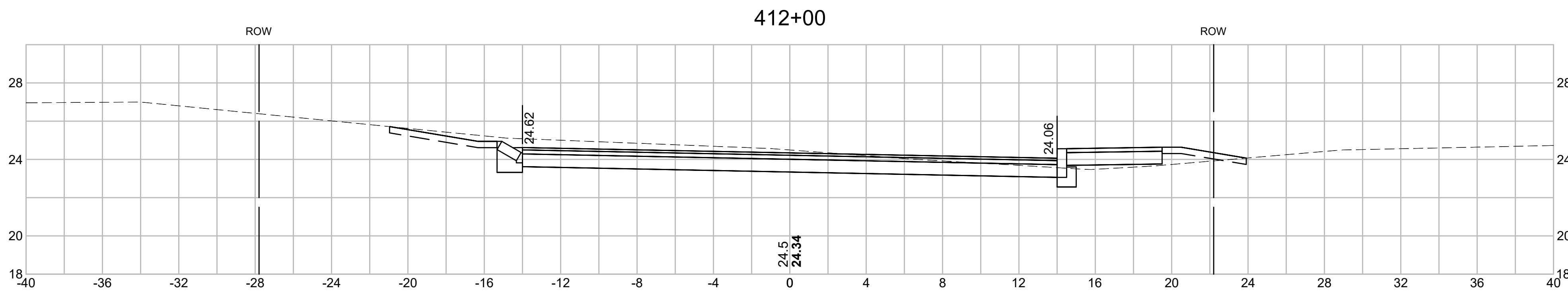
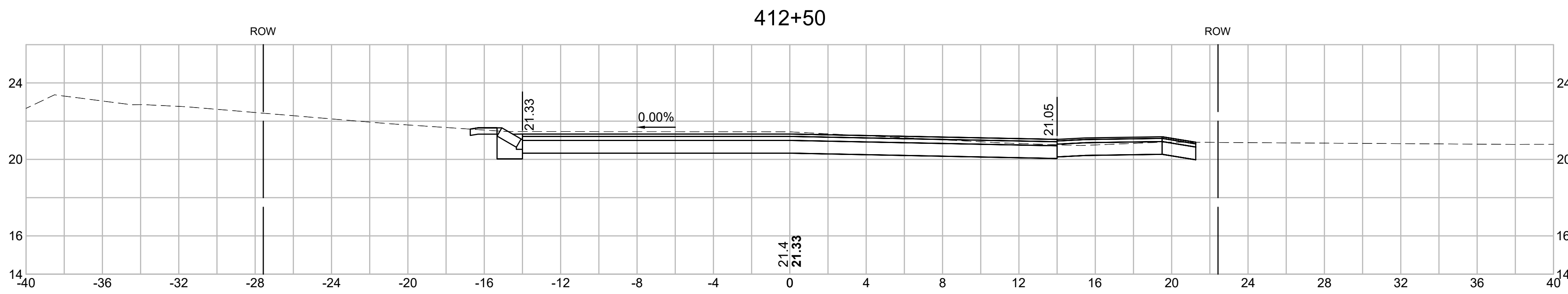
DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'

2015086.00

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 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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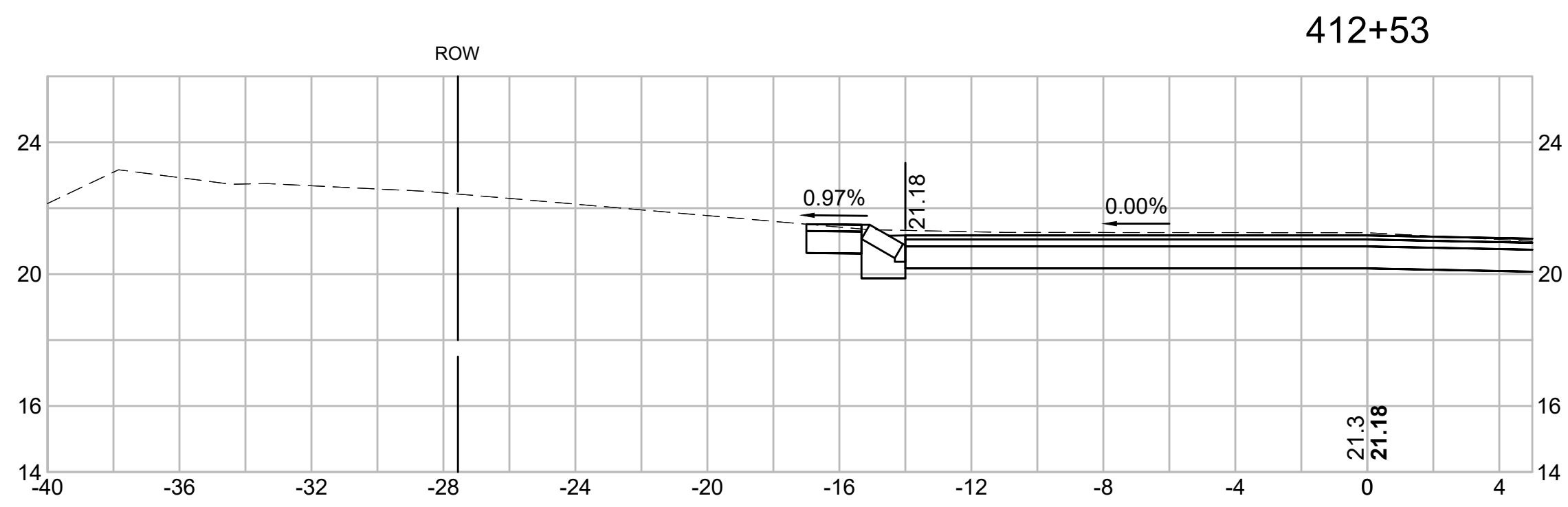
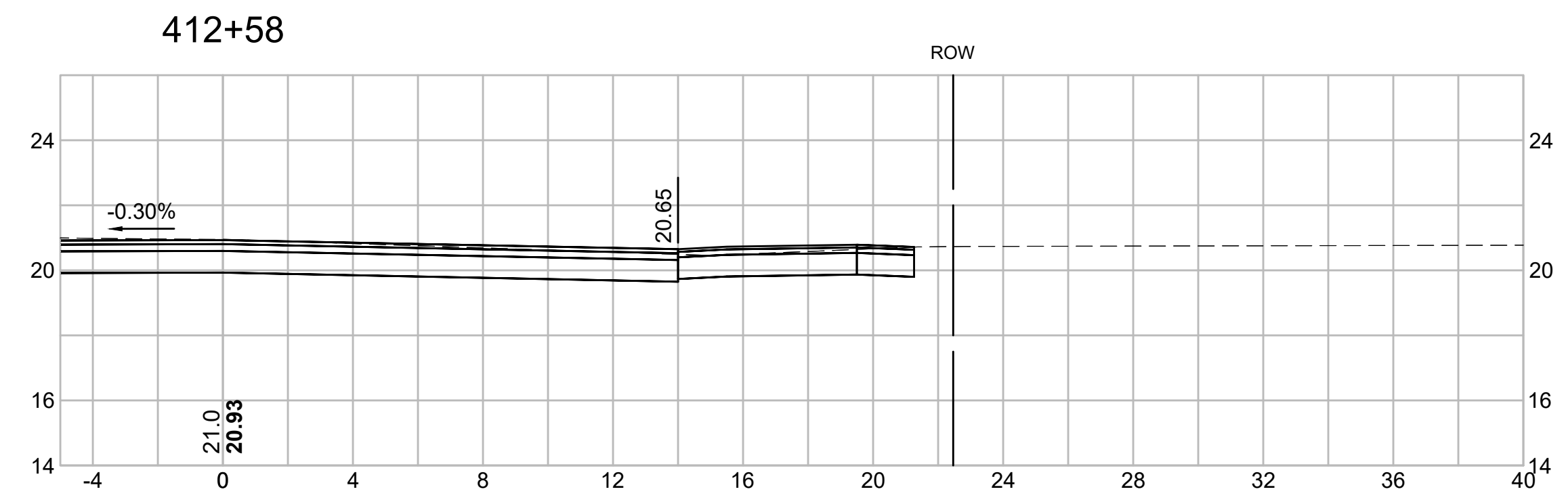
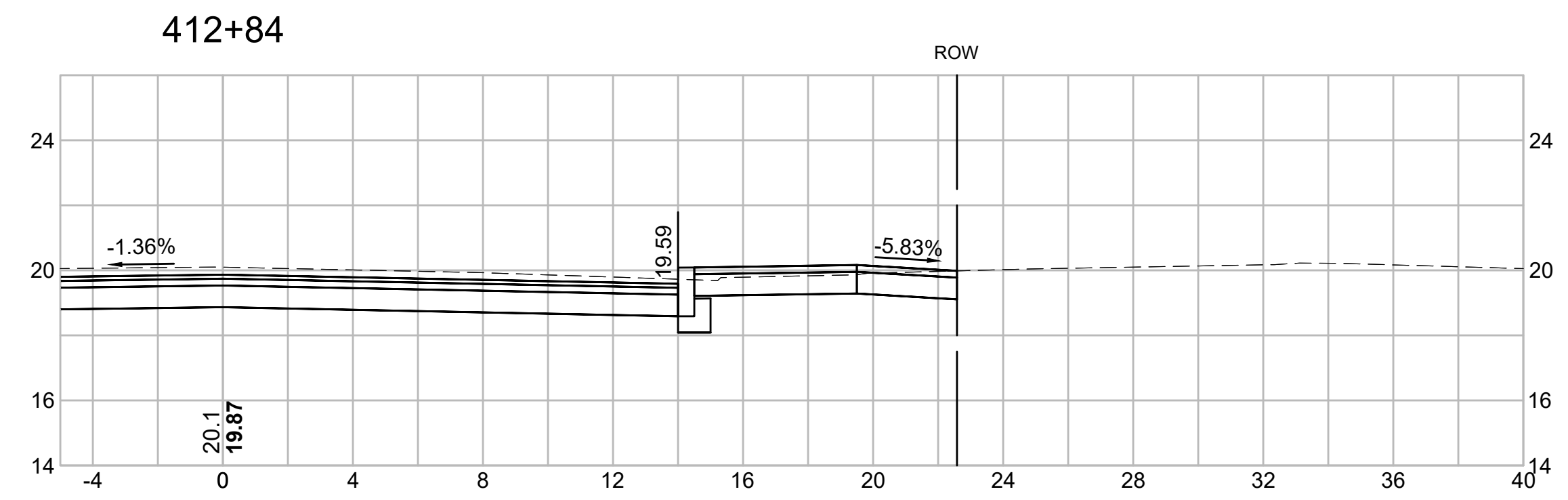
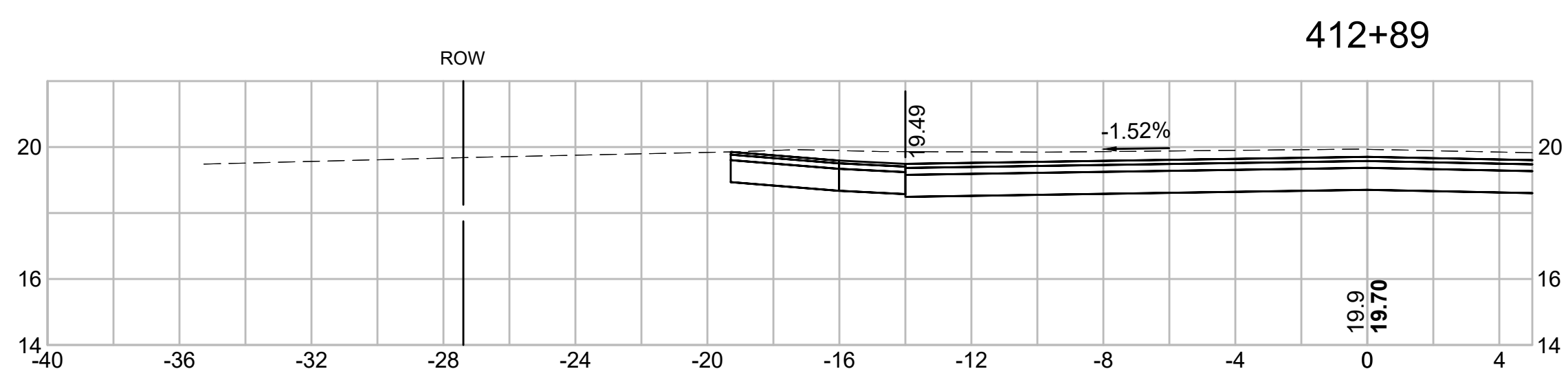
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'

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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

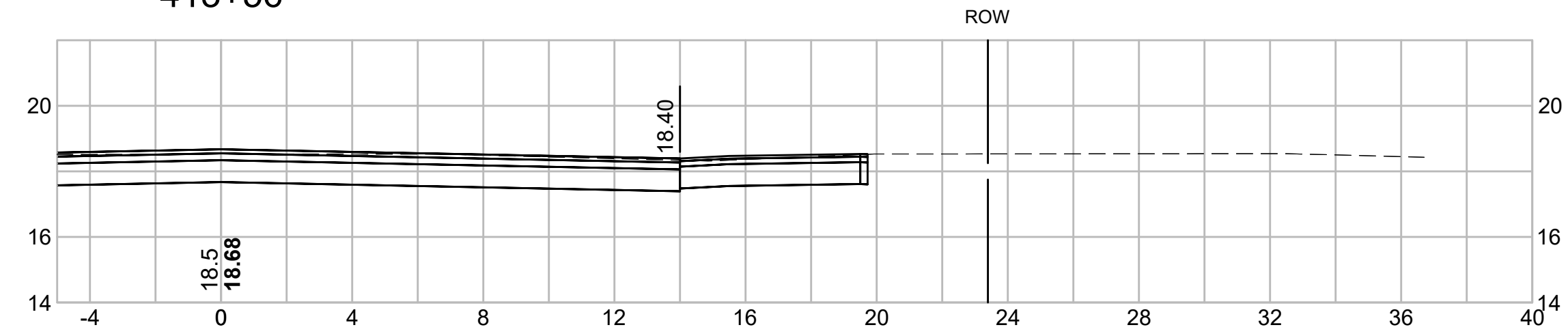
REVISIONS		
NO.	REVISION	DATE

1/18/2018
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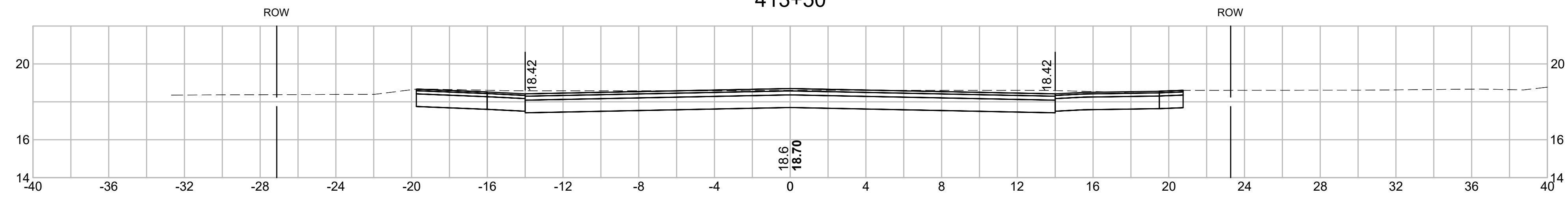
**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00

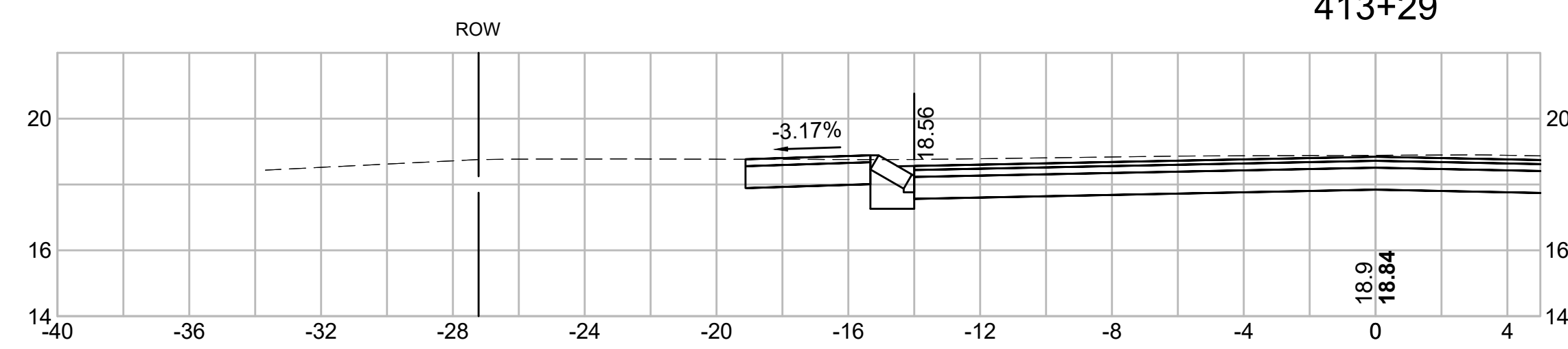
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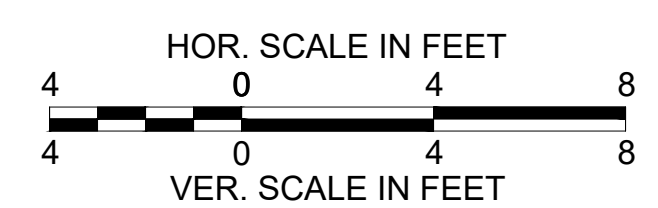
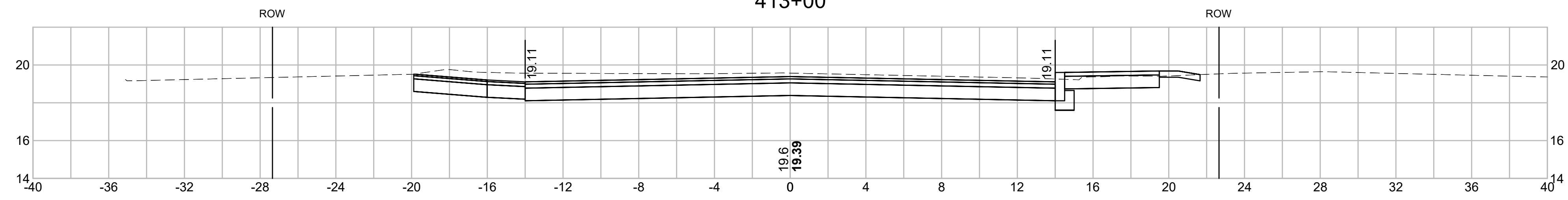
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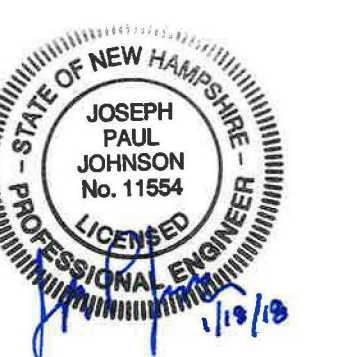


413+29



413+00





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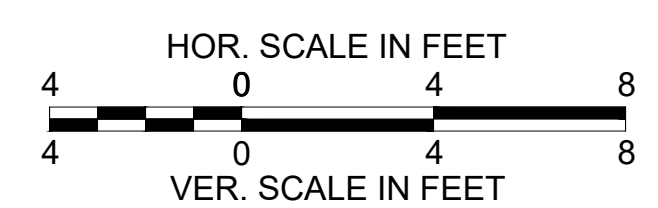
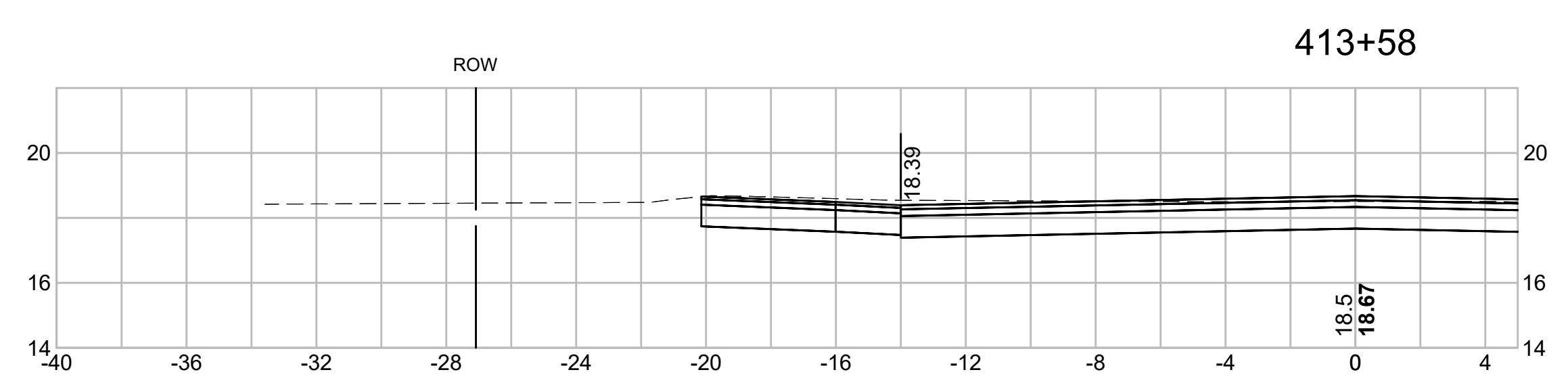
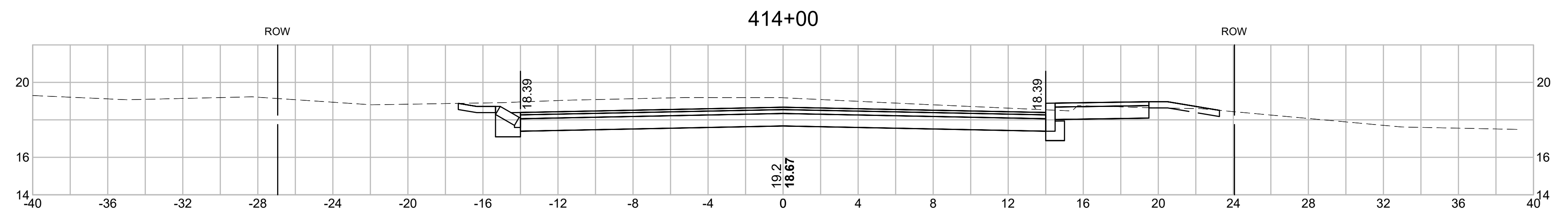
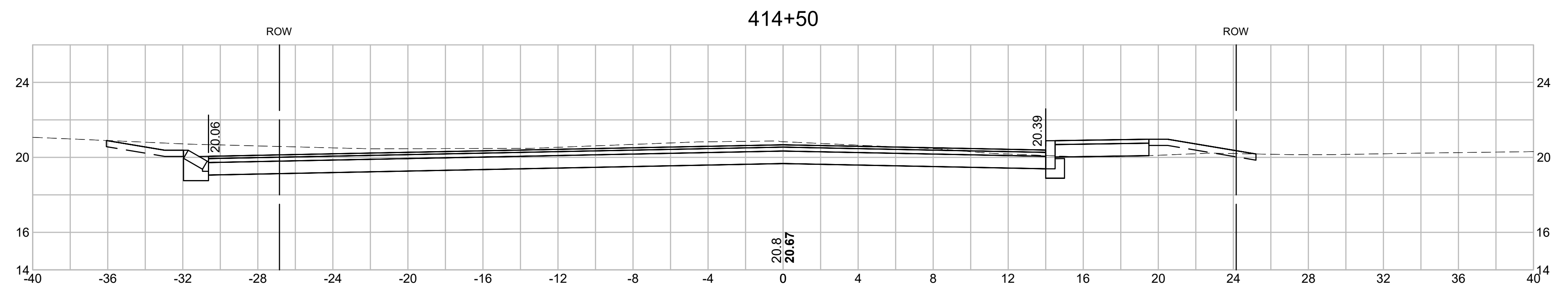
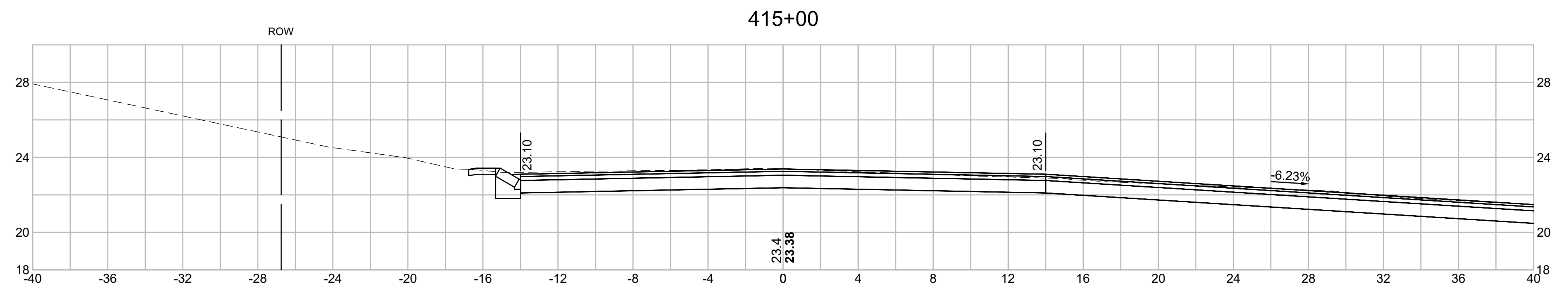
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
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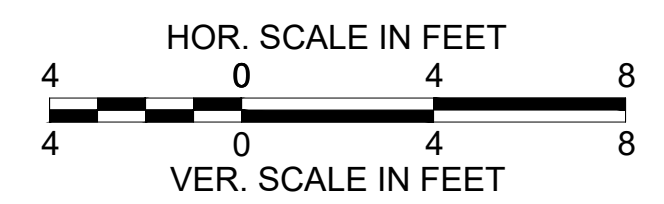
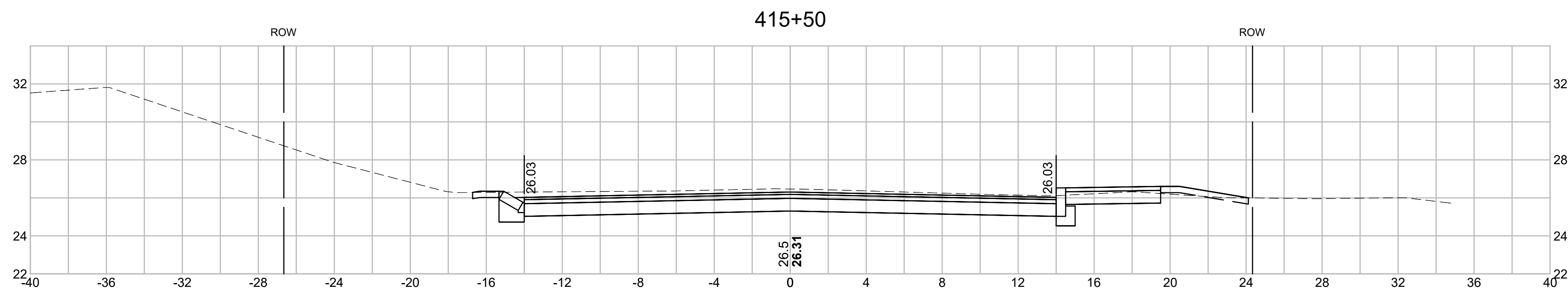
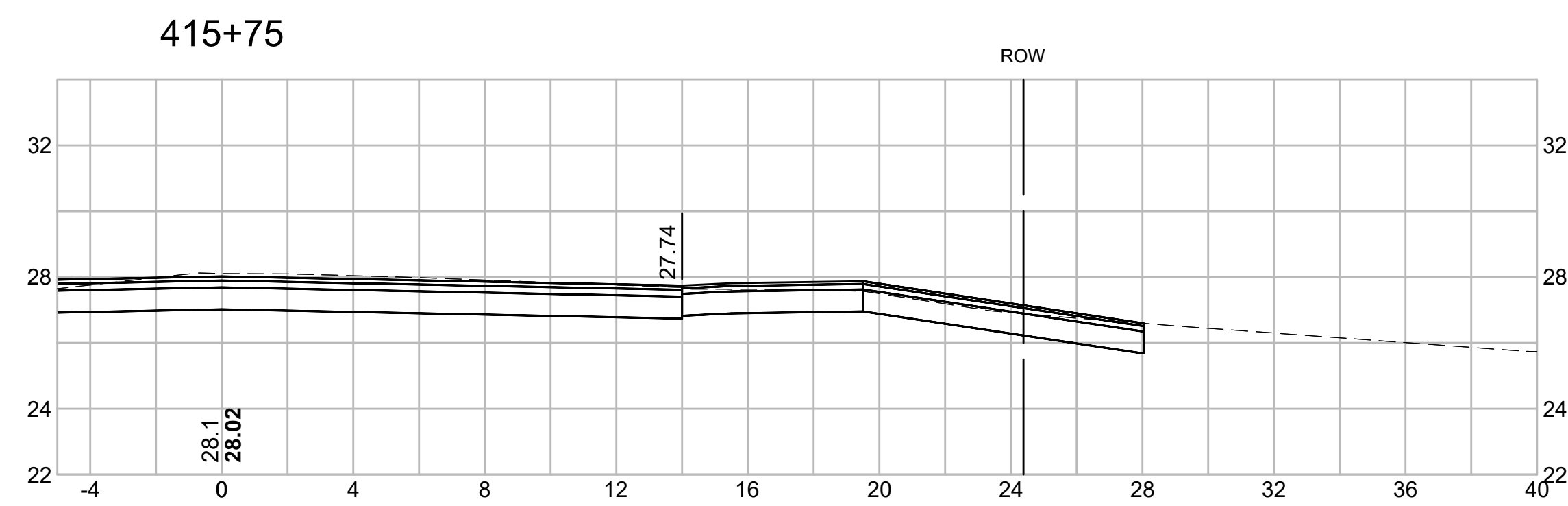
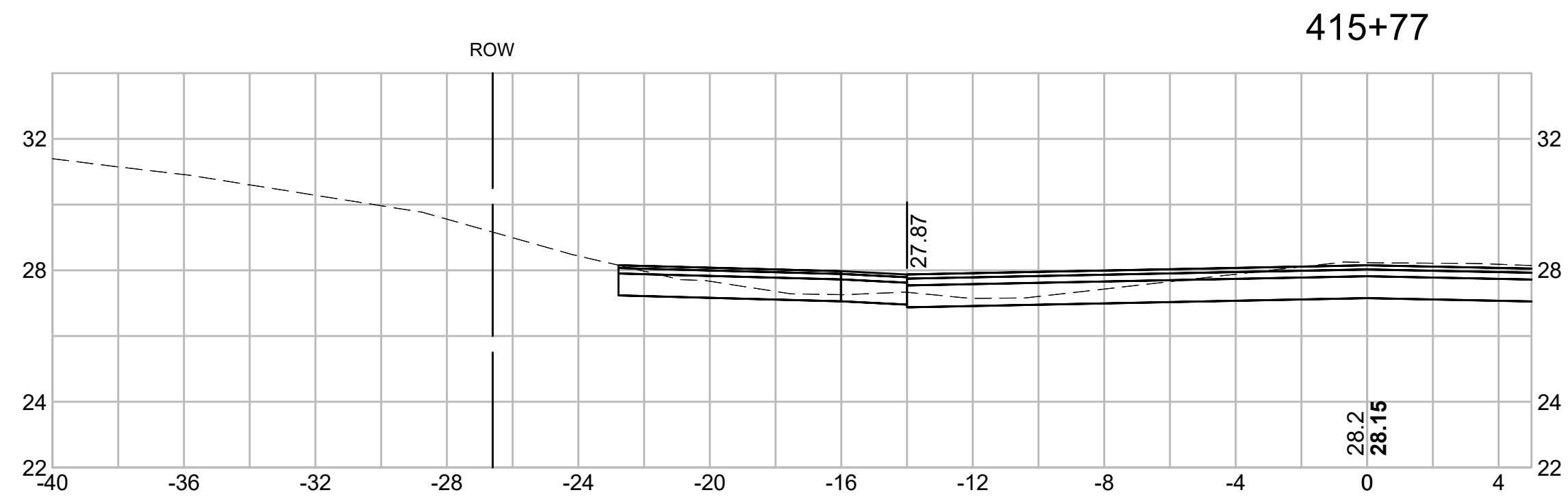
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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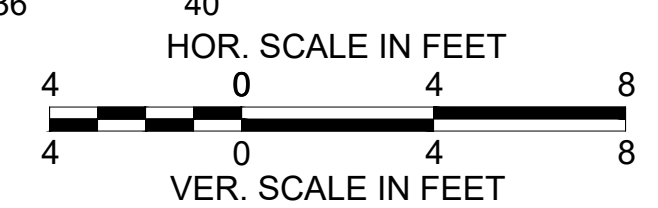
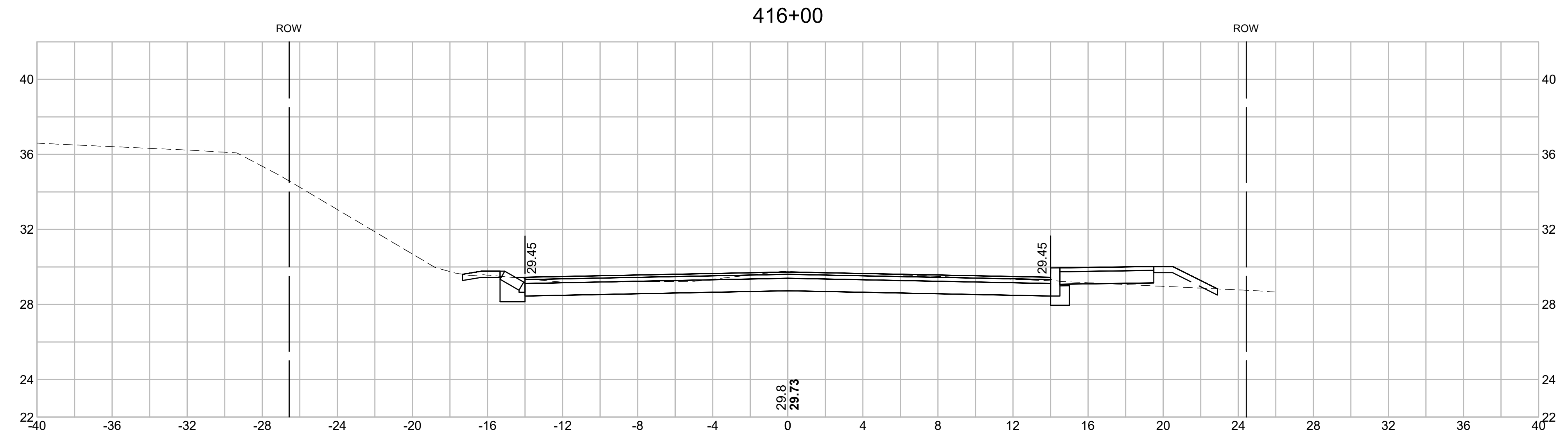
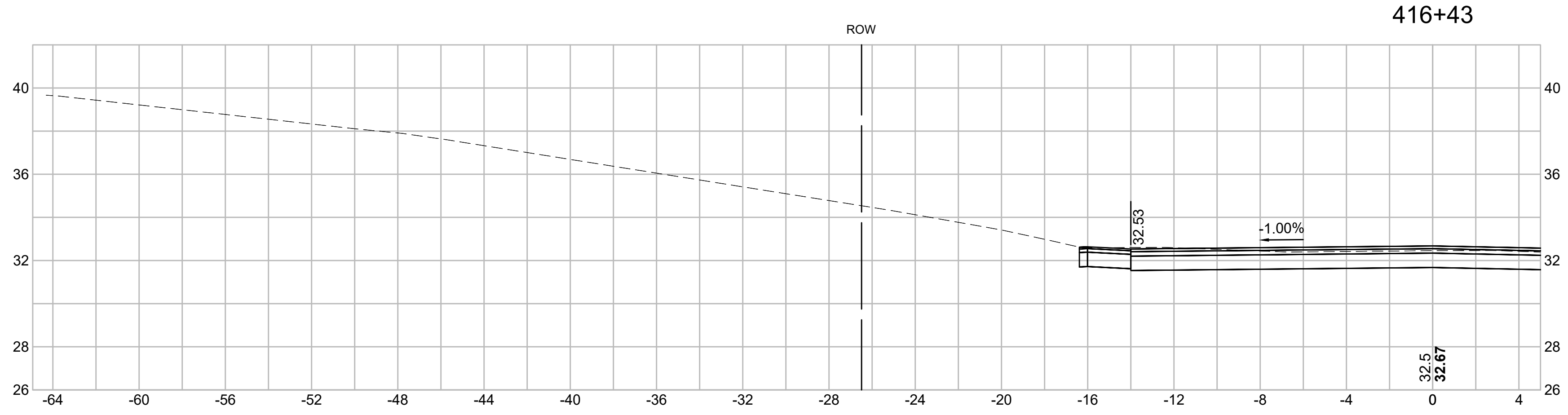
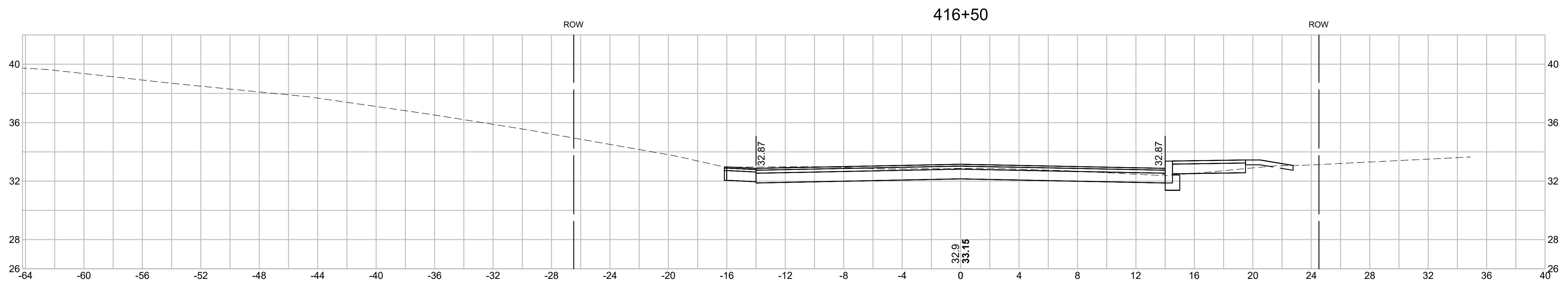
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'

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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

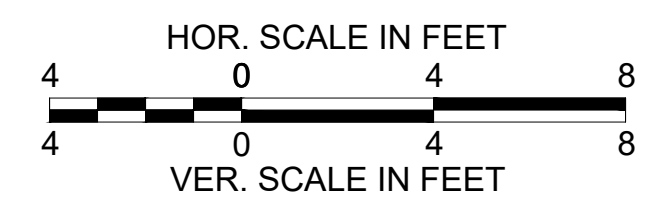
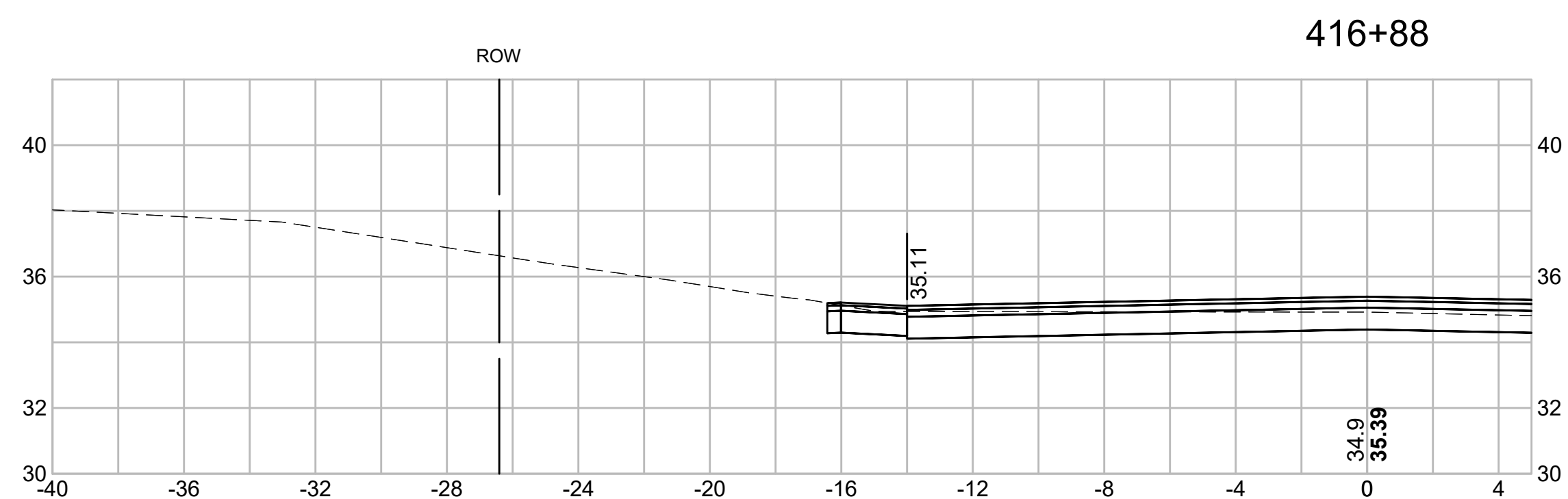
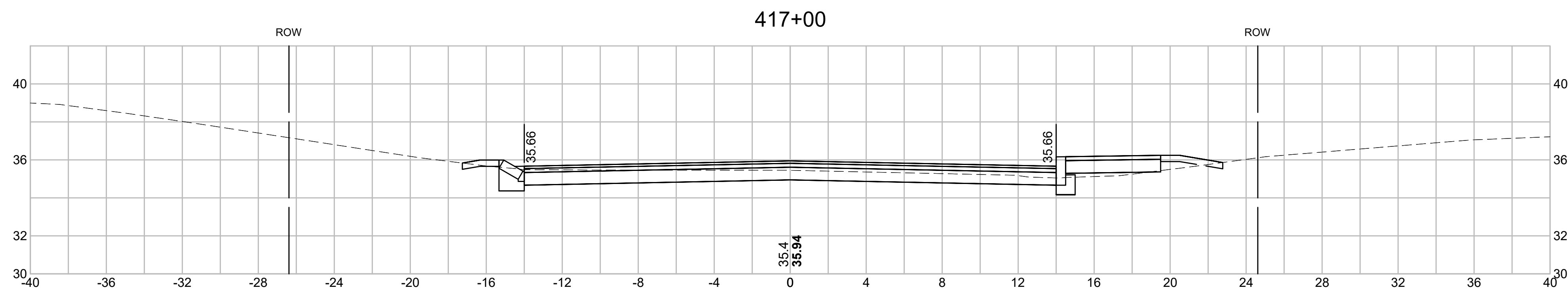
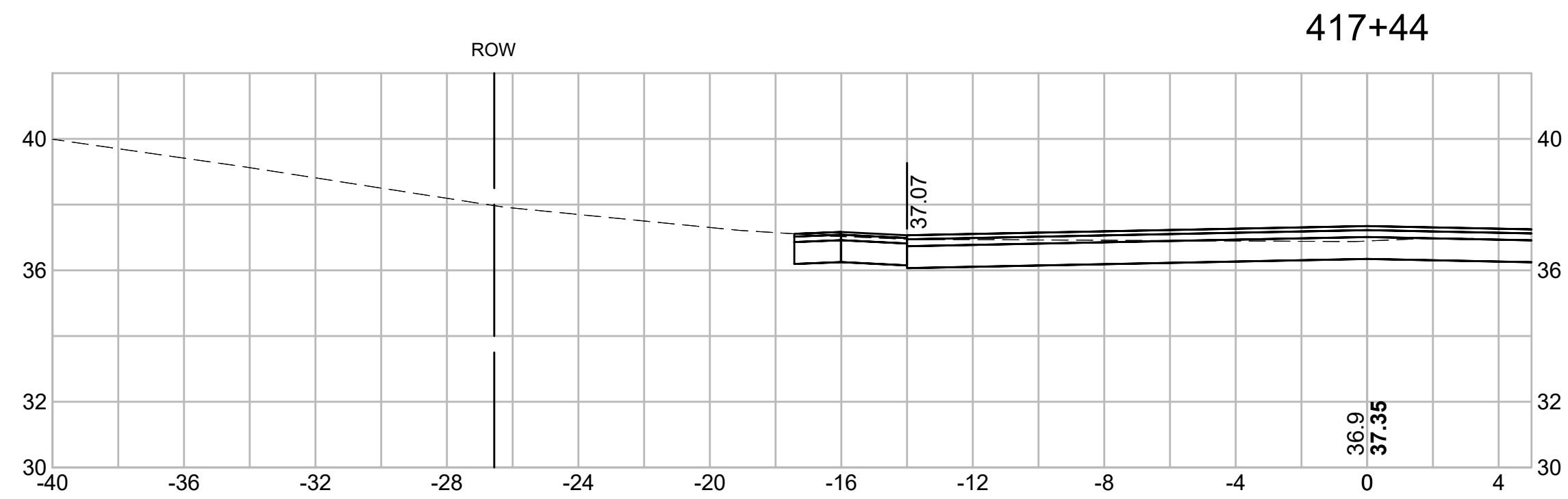
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
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SCALE: 1"=4'
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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

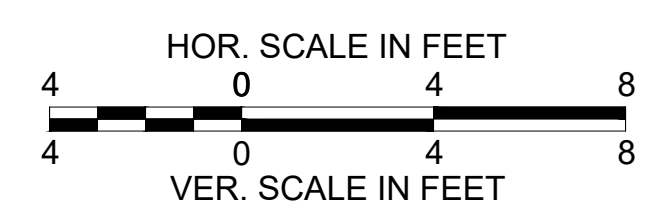
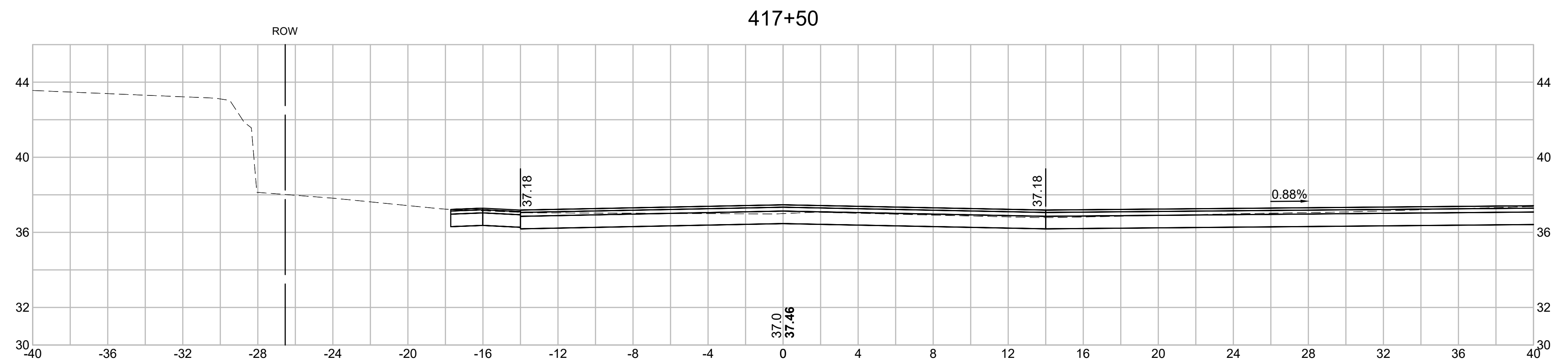
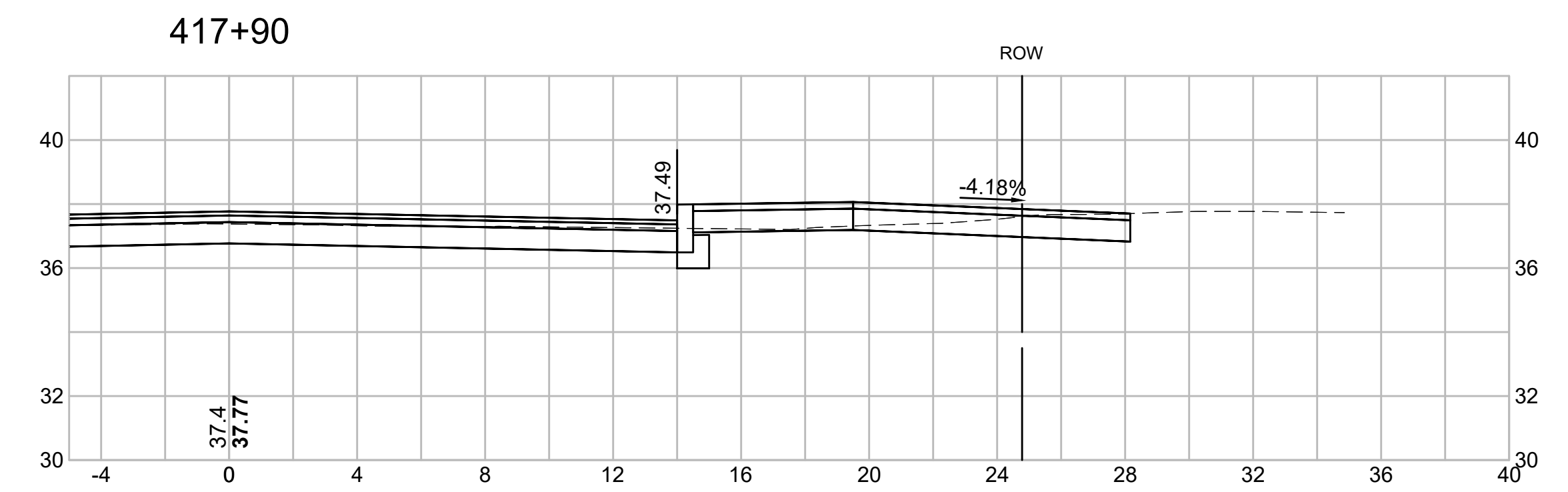
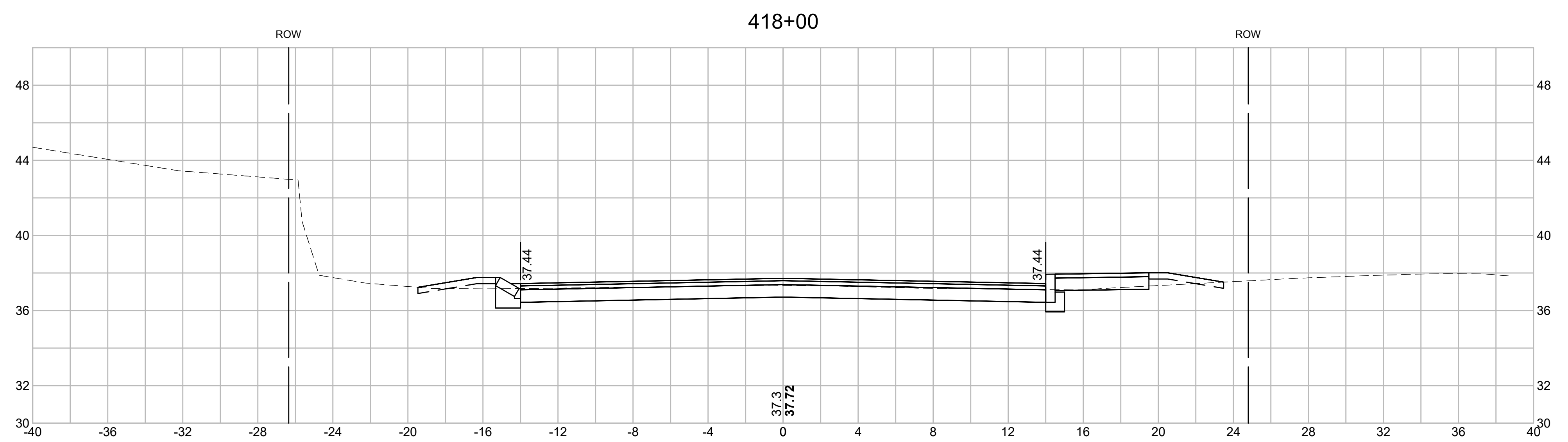
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

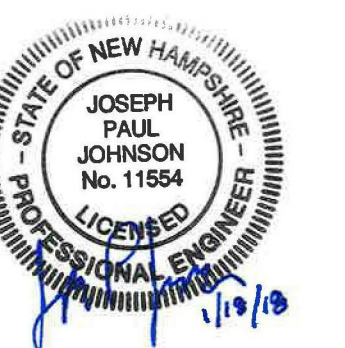
REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00





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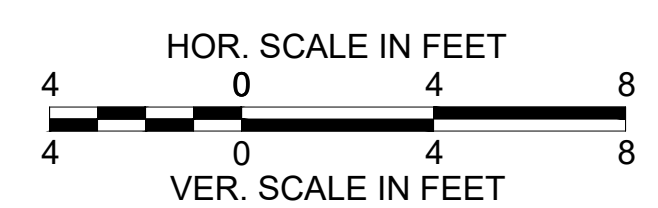
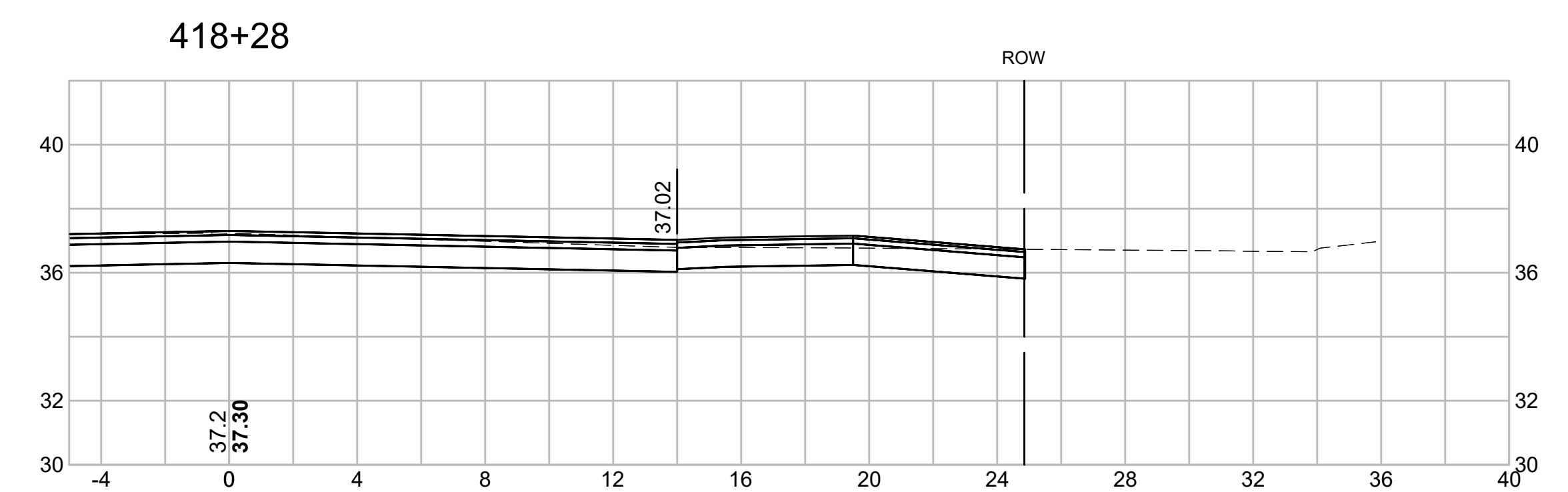
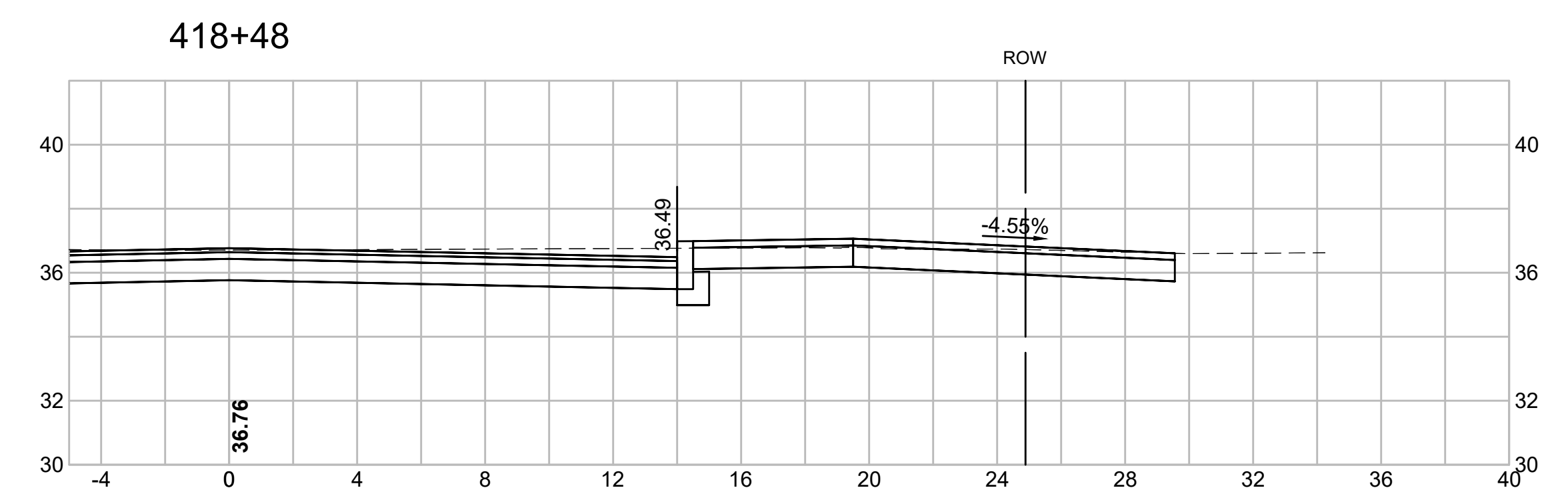
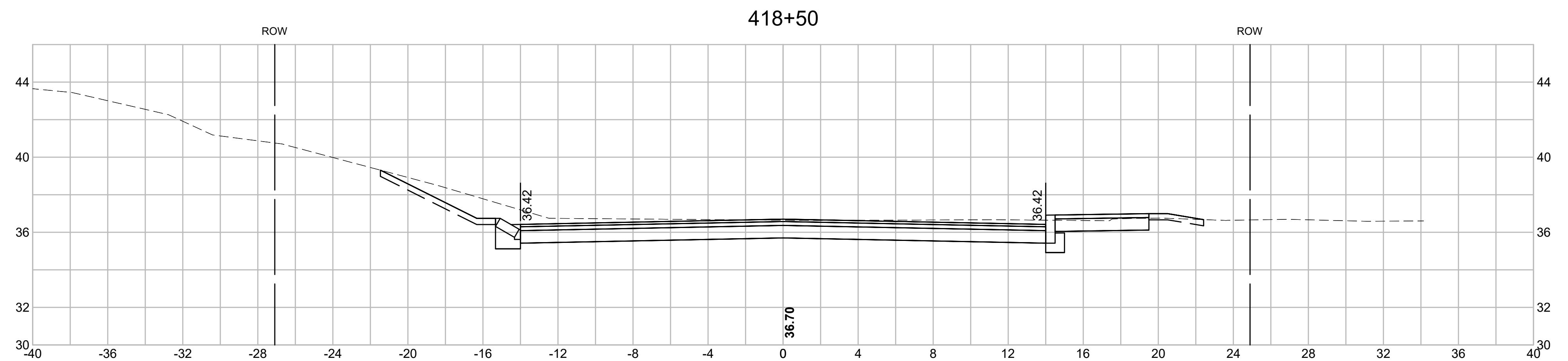
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
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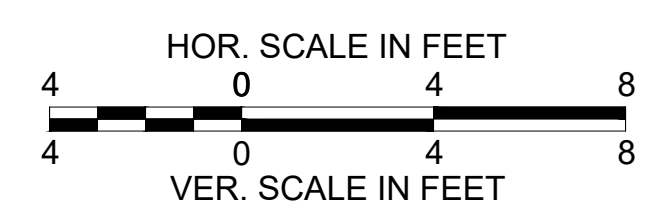
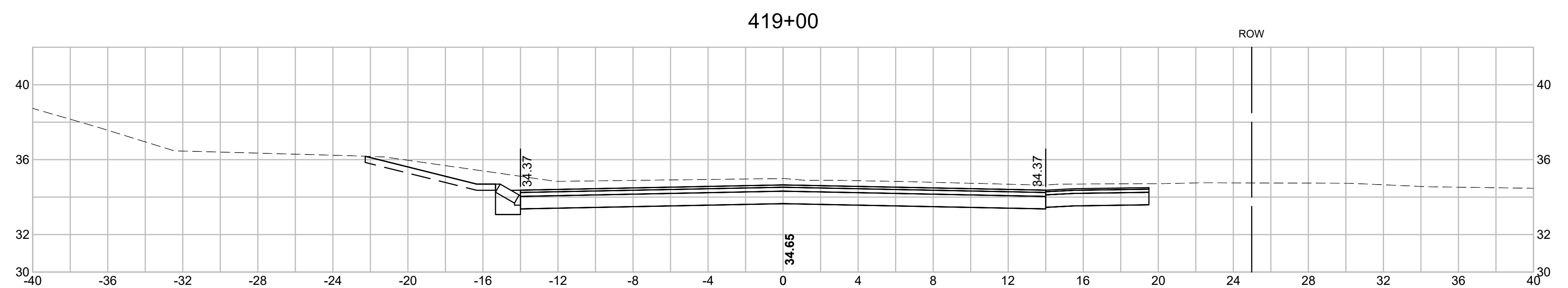
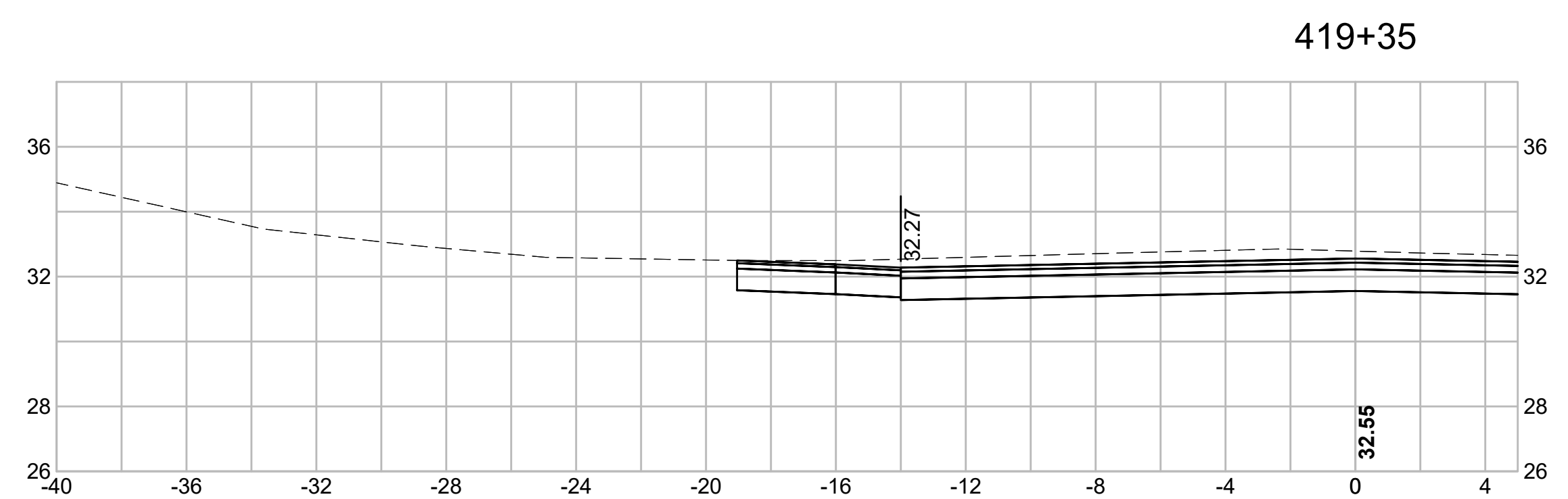
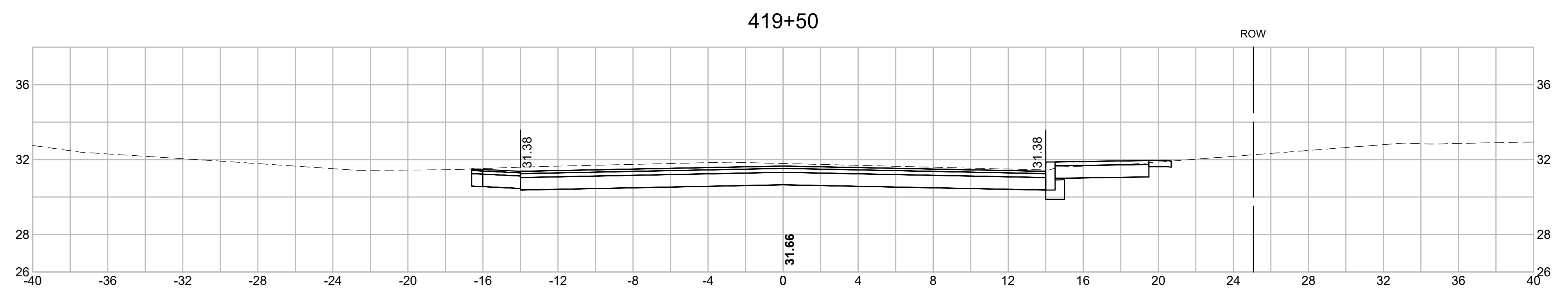
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

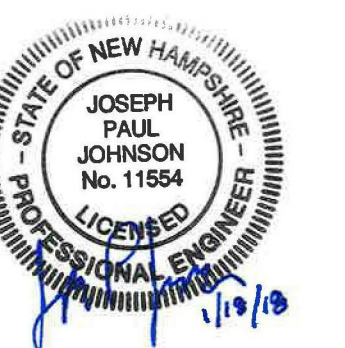
REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**CENTRAL
 AVENUE &
 CUTTS STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00





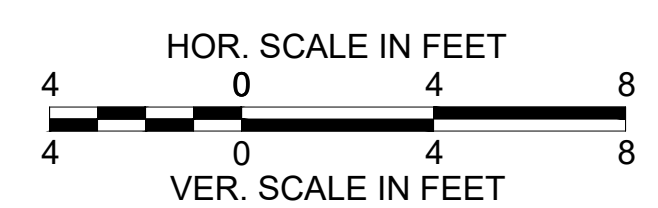
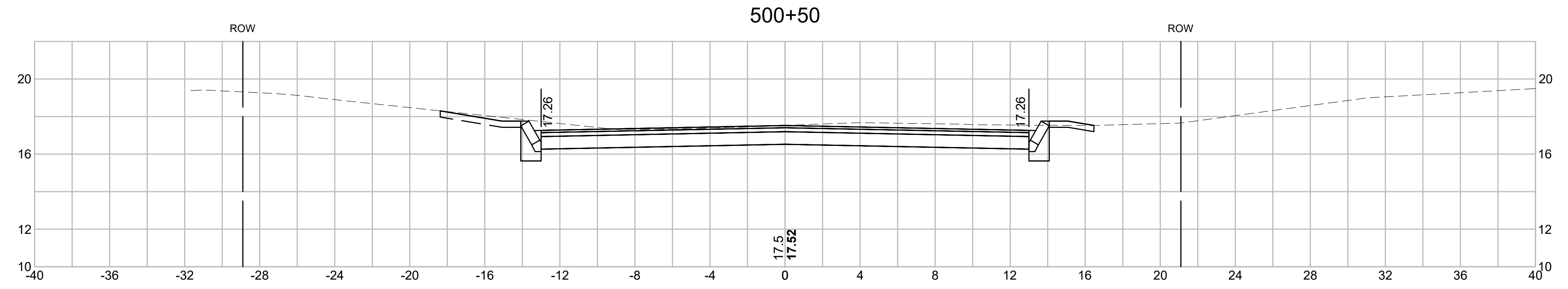
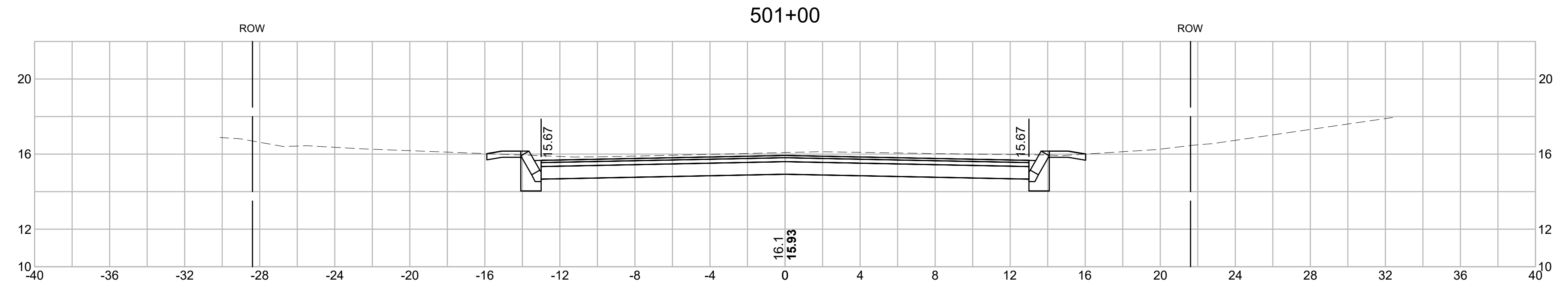
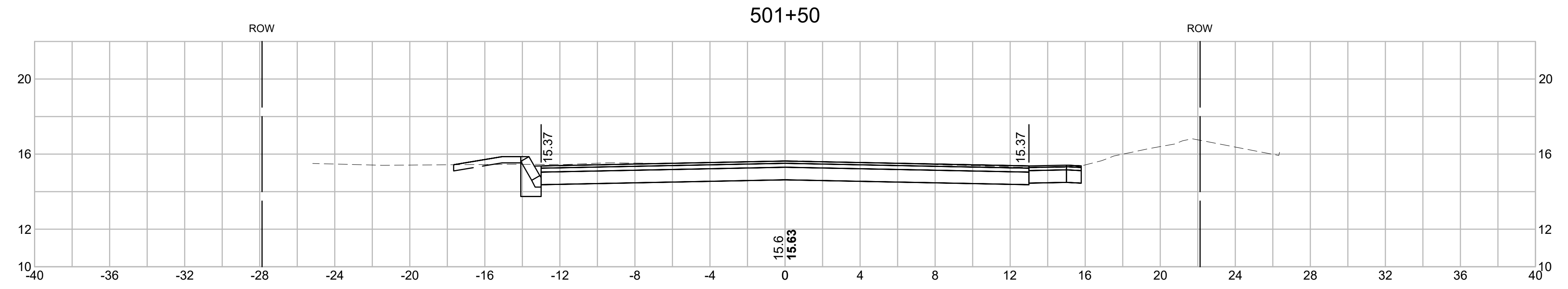
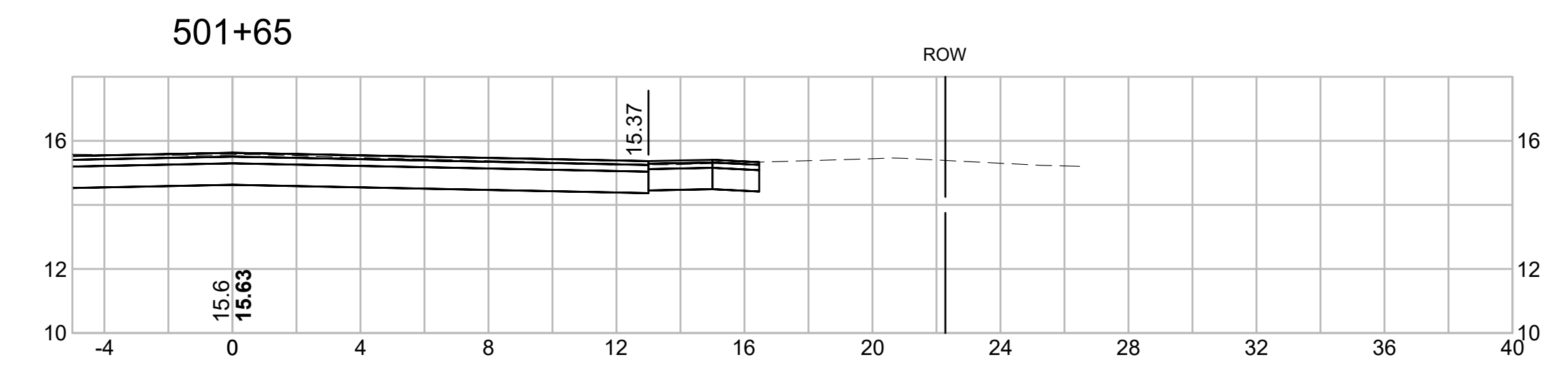
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 WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

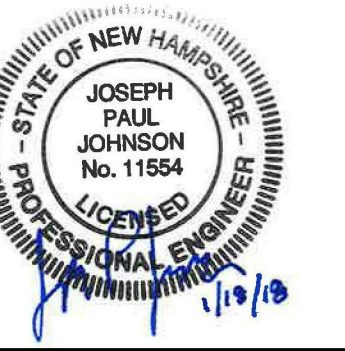
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
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**BEECHWOOD
 STREET
 CROSS
 SECTIONS**
 SCALE: 1"=4'
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 CITY OF PORTSMOUTH
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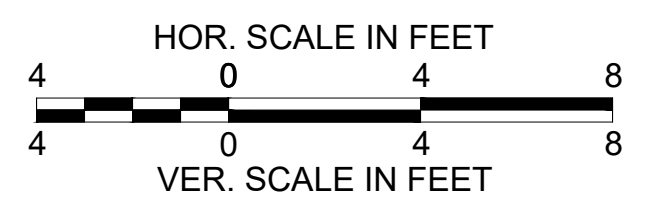
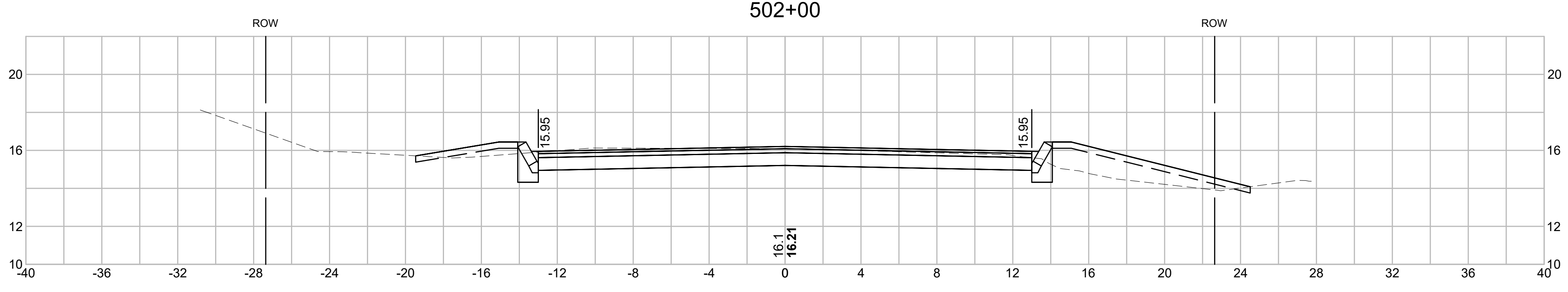
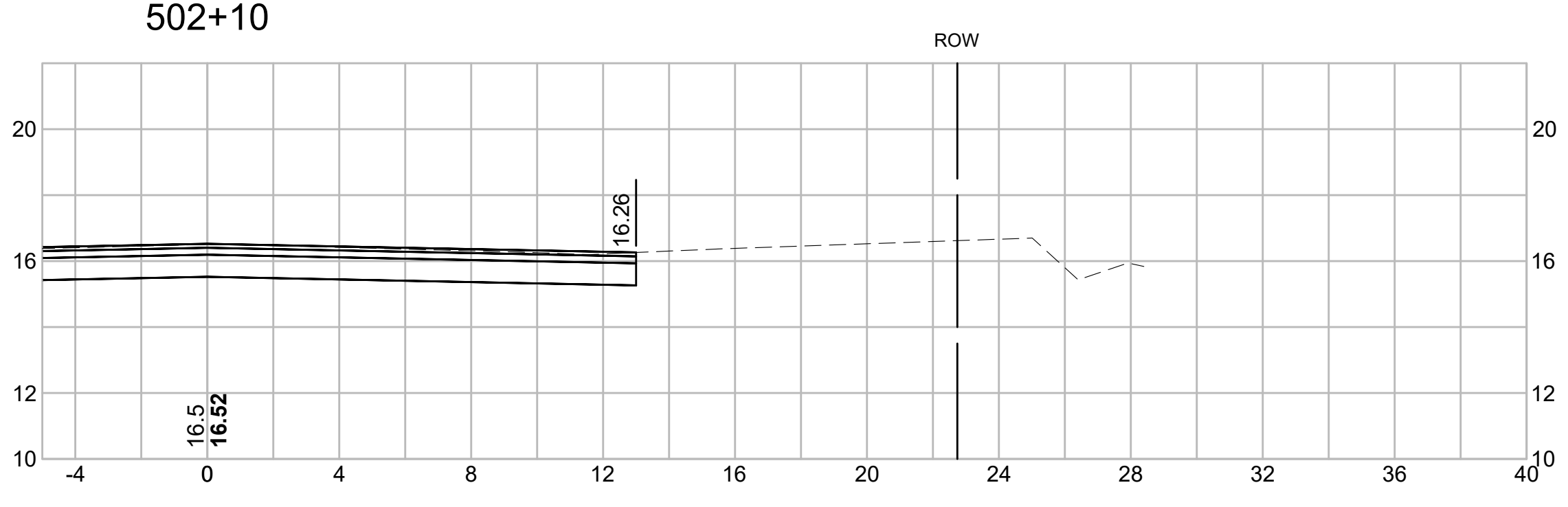
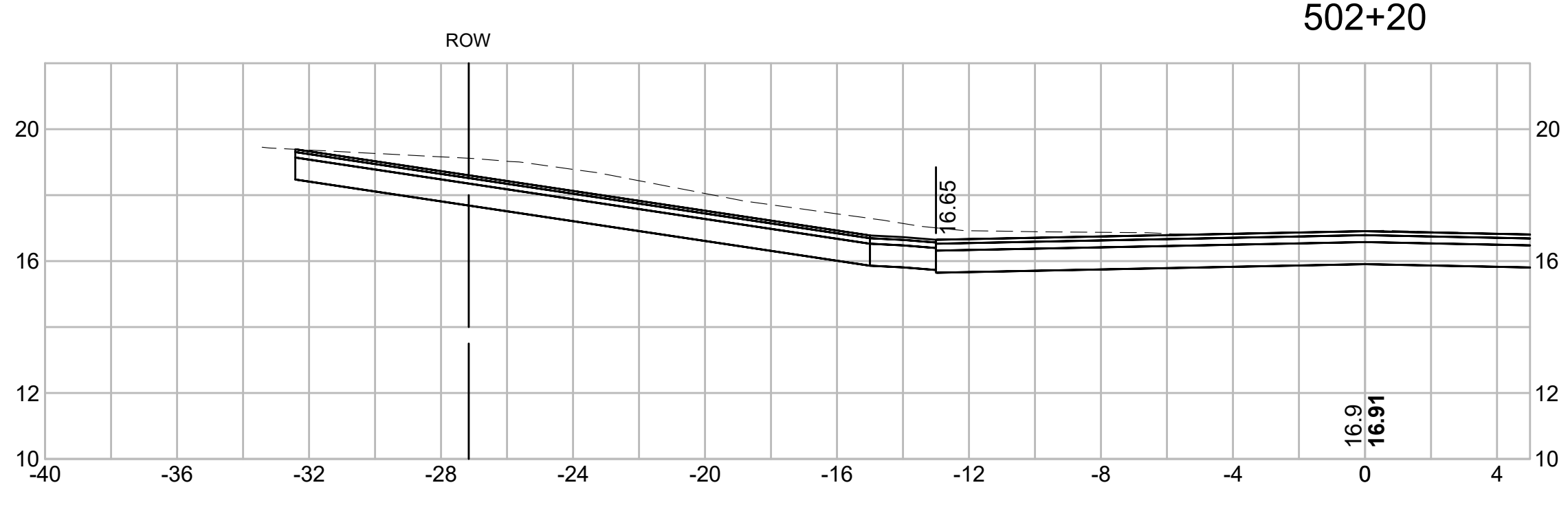
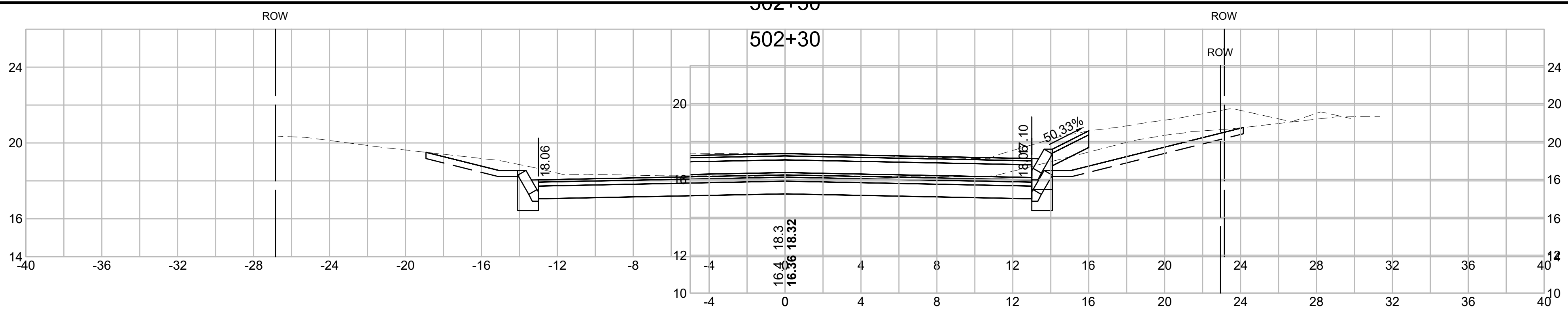
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

1/18/2018
 DRAWN/DESIGN BY: CLS CHECKED BY: JPJ

**BEECHWOOD
 STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'
 2015086.00





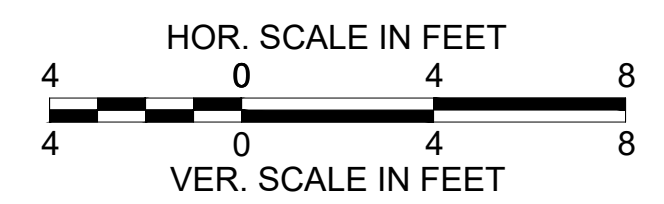
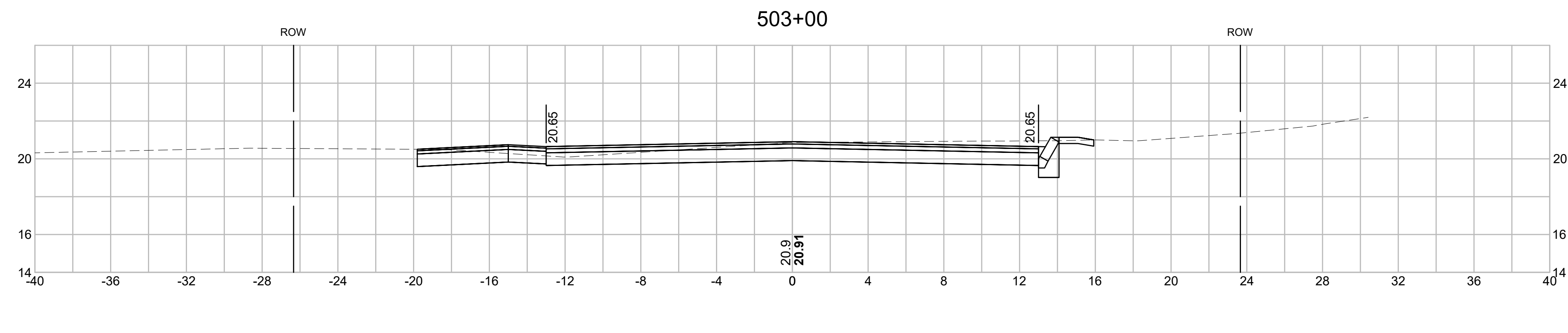
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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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1/18/2018
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**BEECHWOOD
 STREET
 CROSS
 SECTIONS**
 SCALE: 1"=4'
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 680 PEVERLY HILL ROAD
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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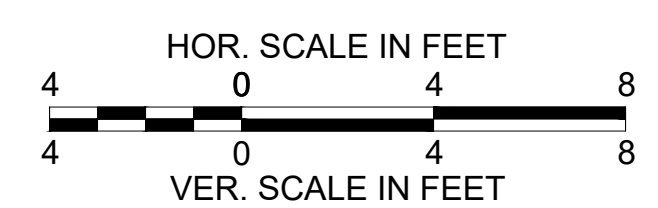
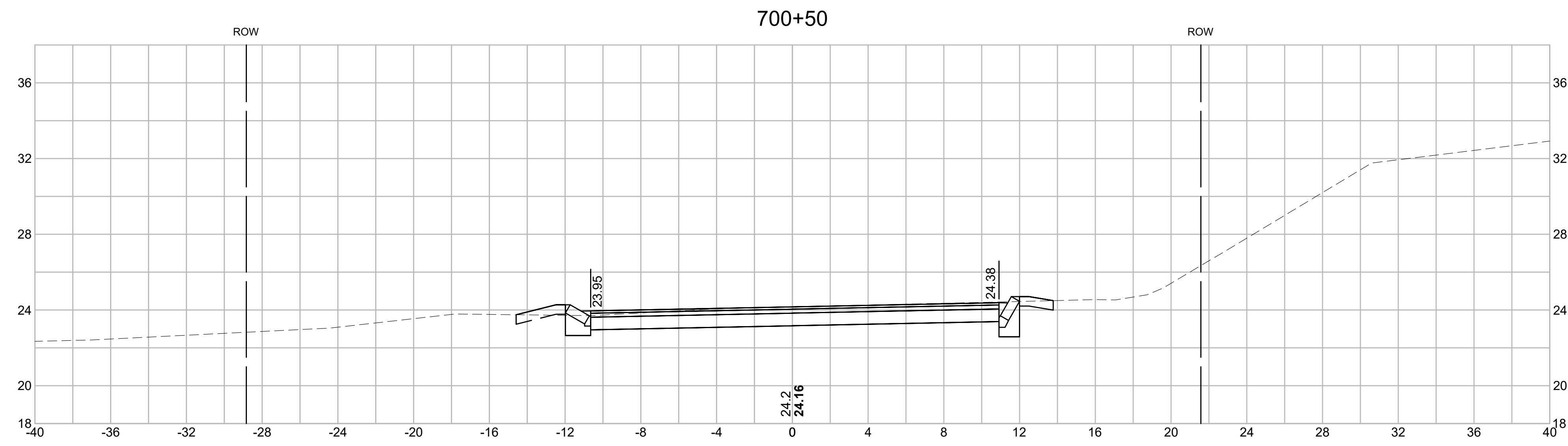
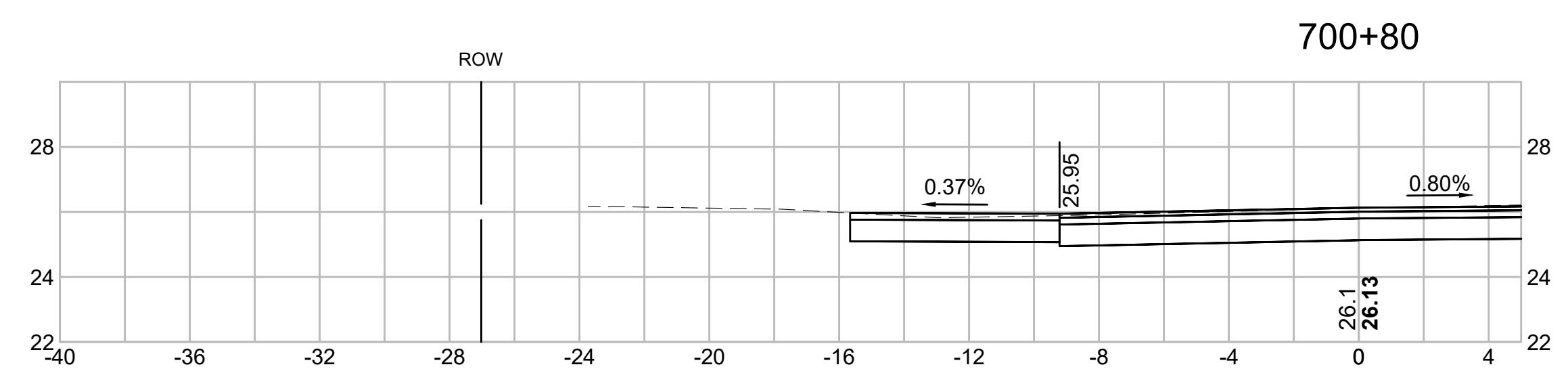
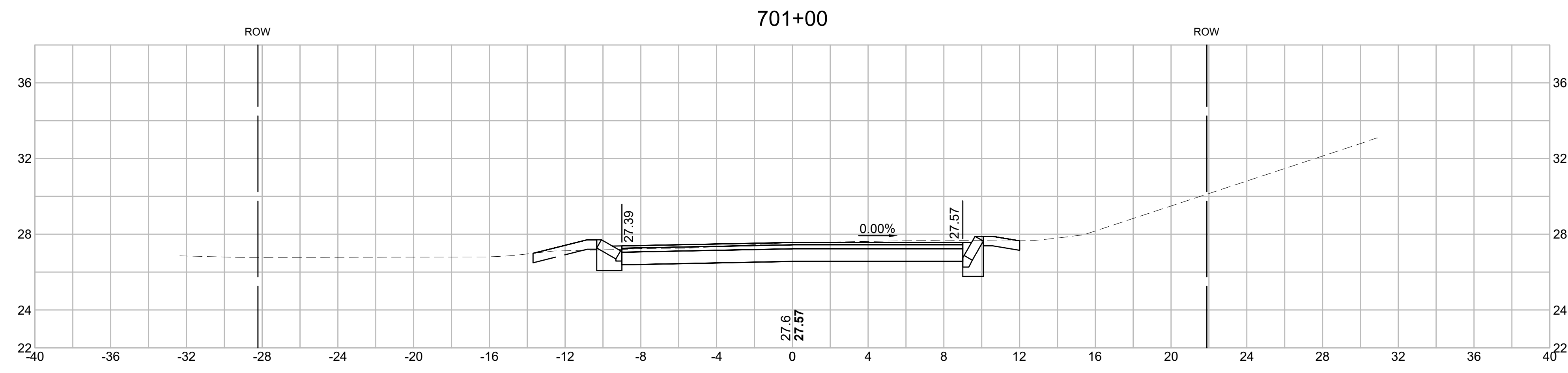
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**ASHLAND
 STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'

2015086.00

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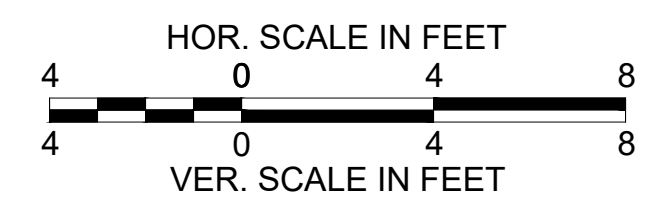
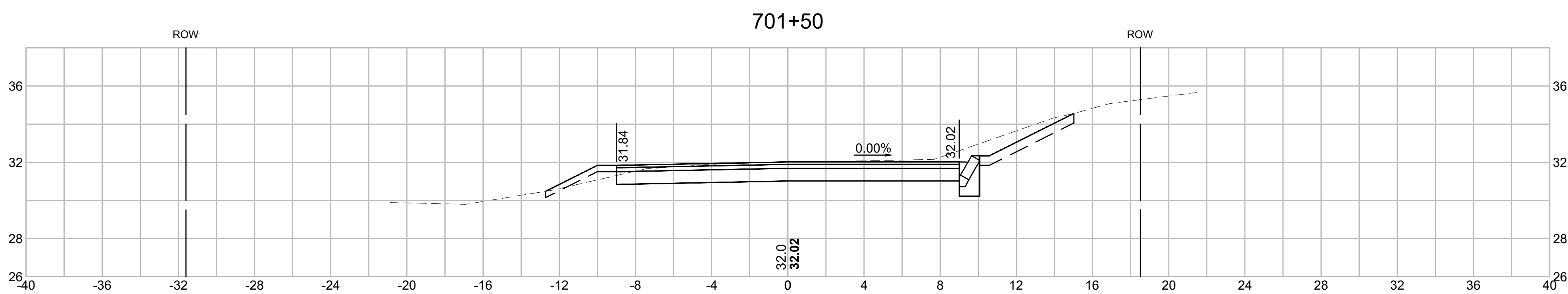
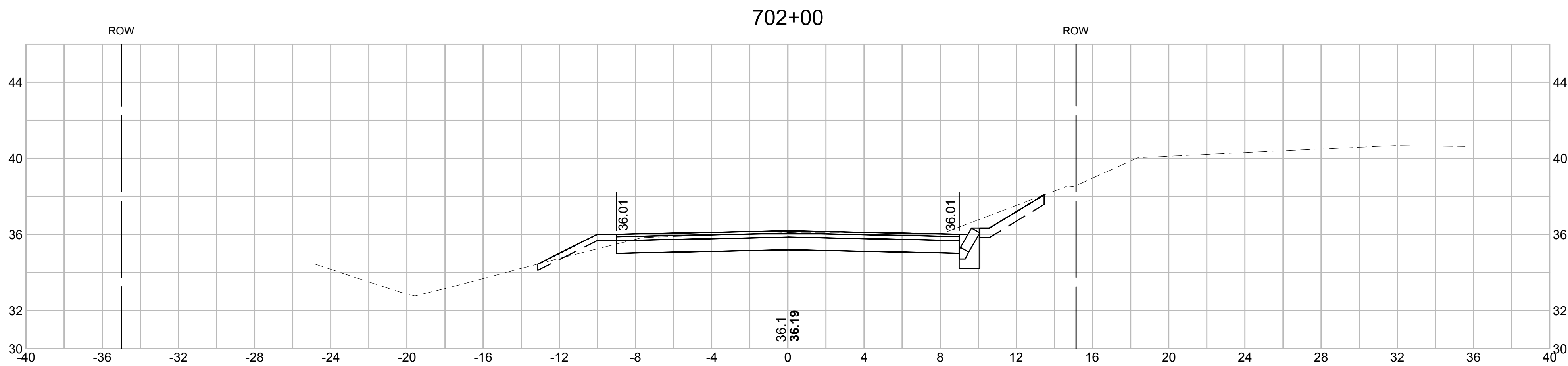
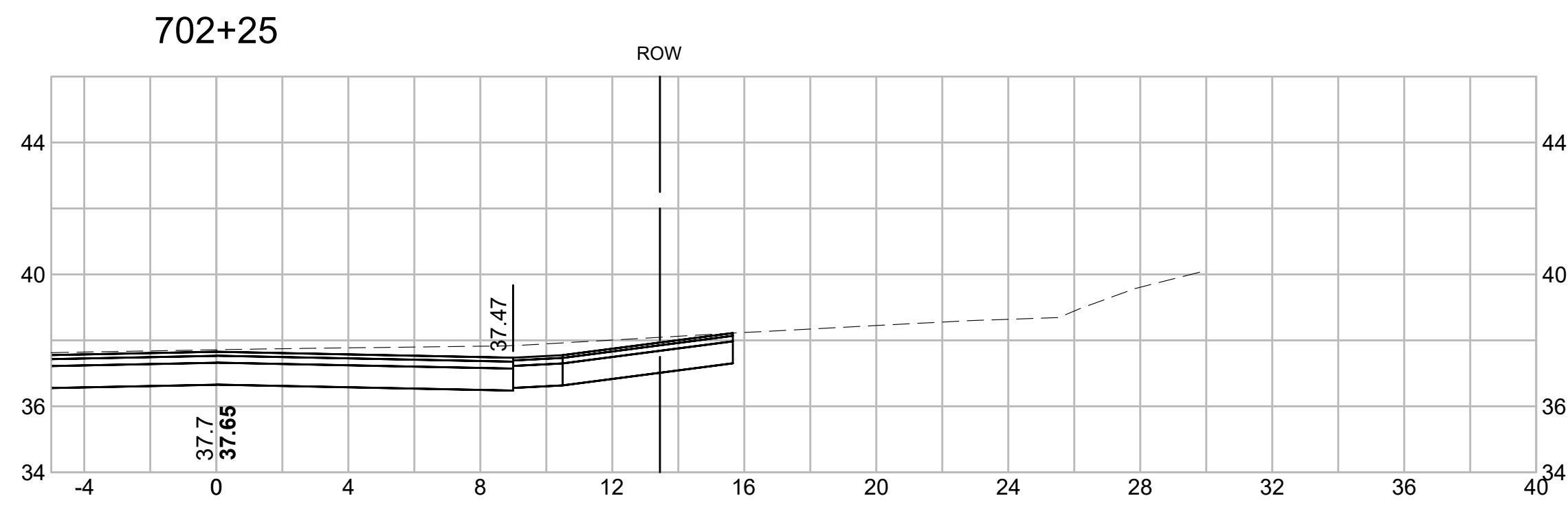
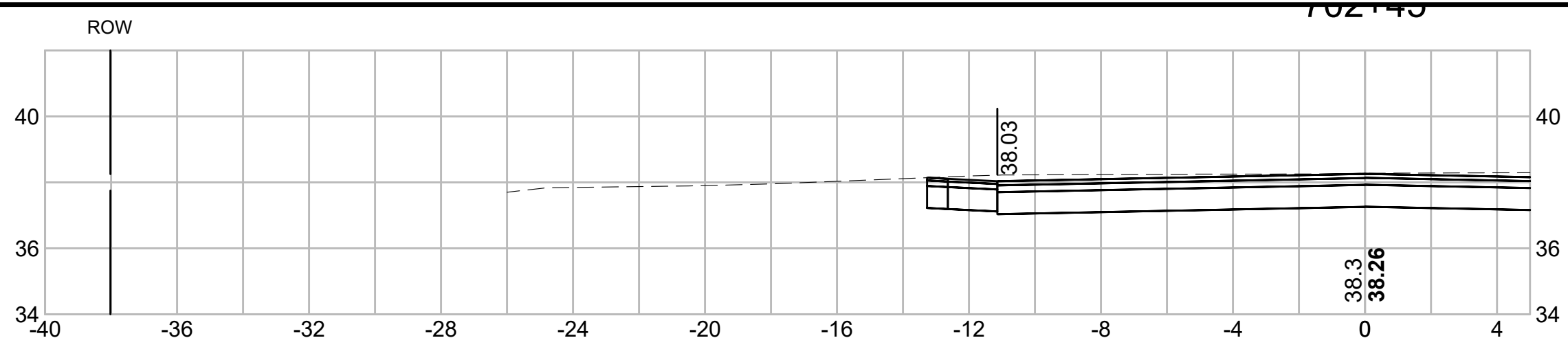
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 CITY OF PORTSMOUTH
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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1/18/2018
 DRAWN/DESIGN BY: CLS
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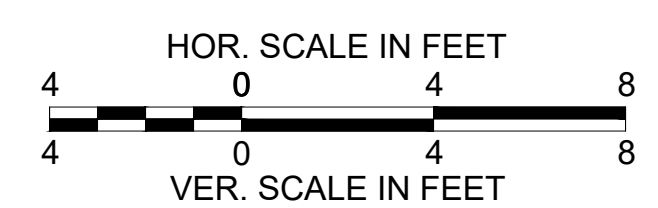
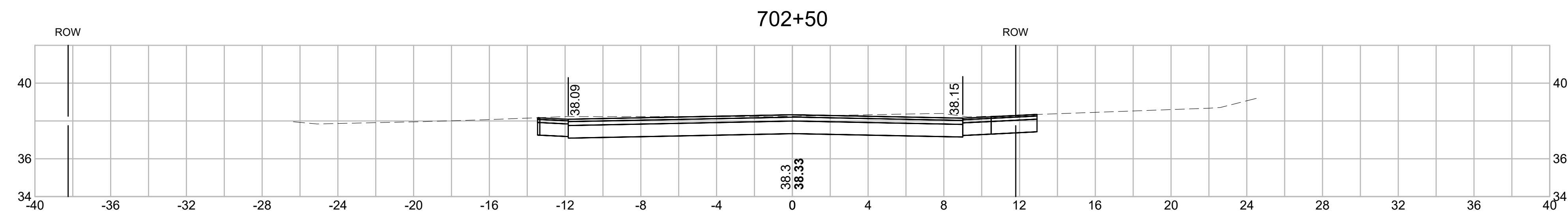
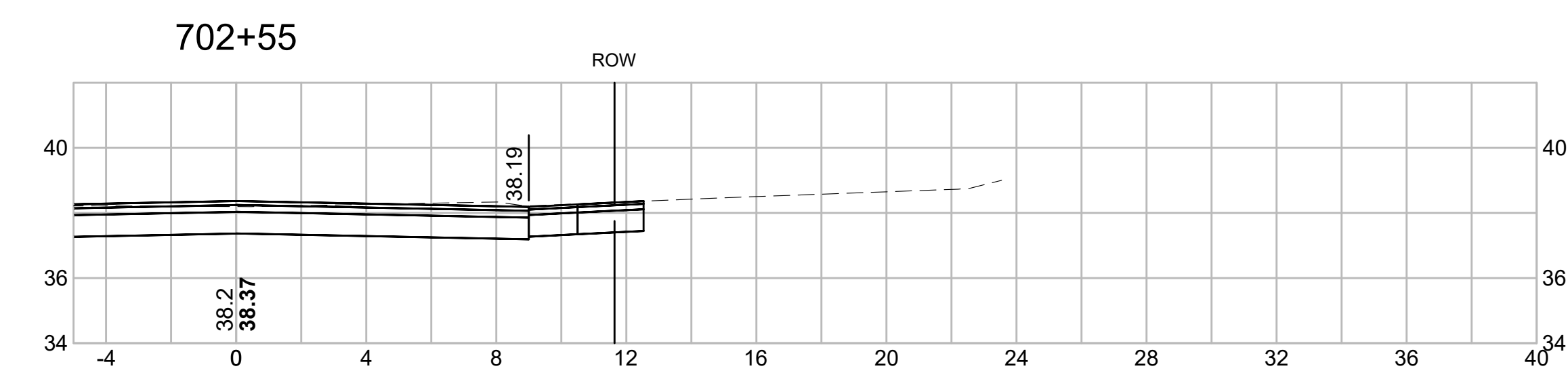
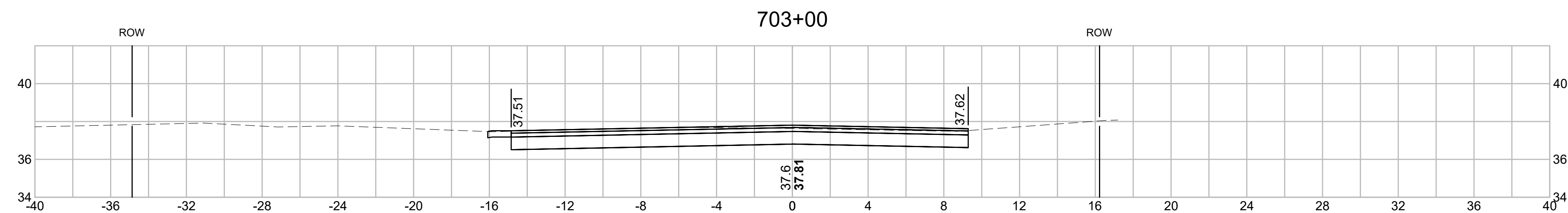
**ASHLAND
 STREET
 CROSS
 SECTIONS**
 SCALE: 1"=4'
 2015086.00
 162 OF 184





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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



REVISIONS		
NO.	REVISION	DATE

1/18/2018

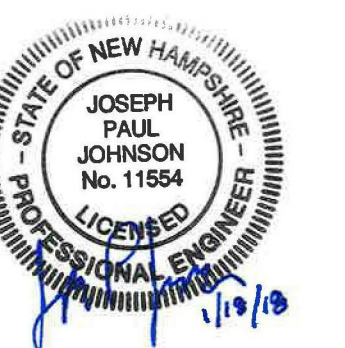
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**ASHLAND
 STREET
 CROSS
 SECTIONS**

SCALE: 1"=4'

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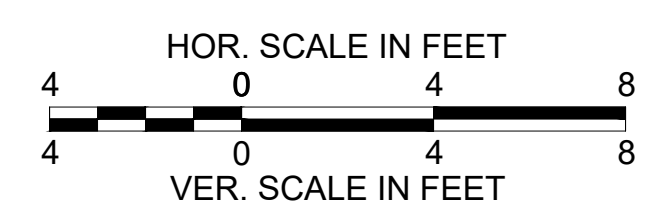
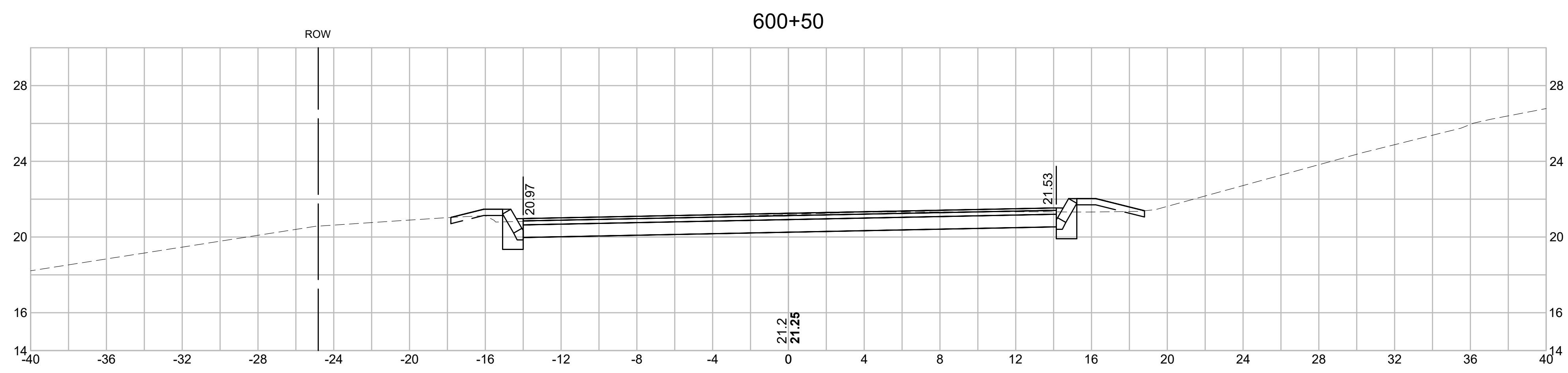
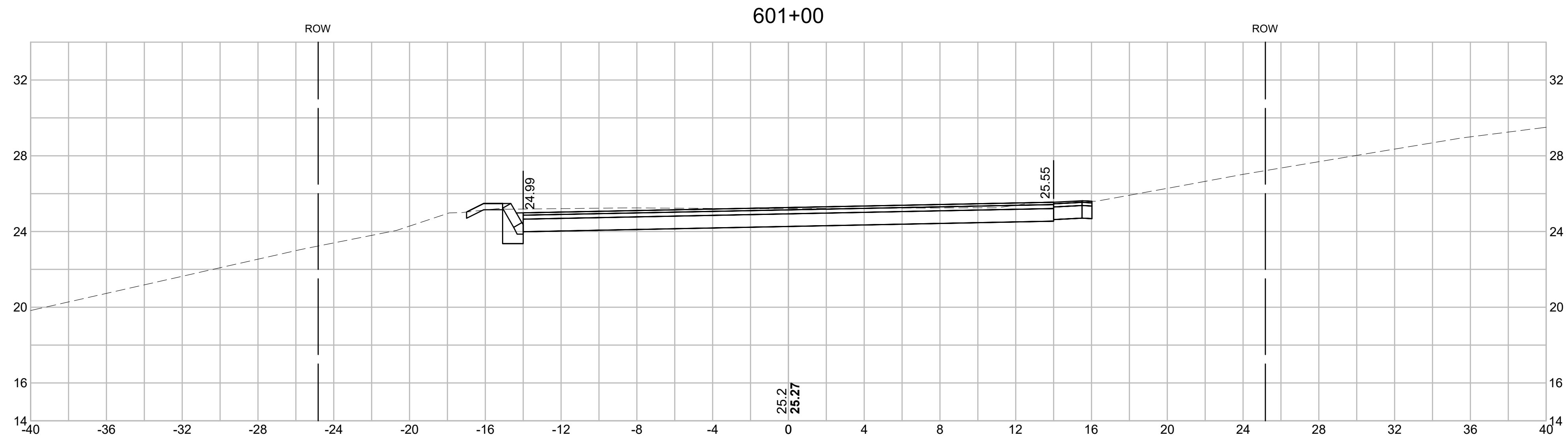
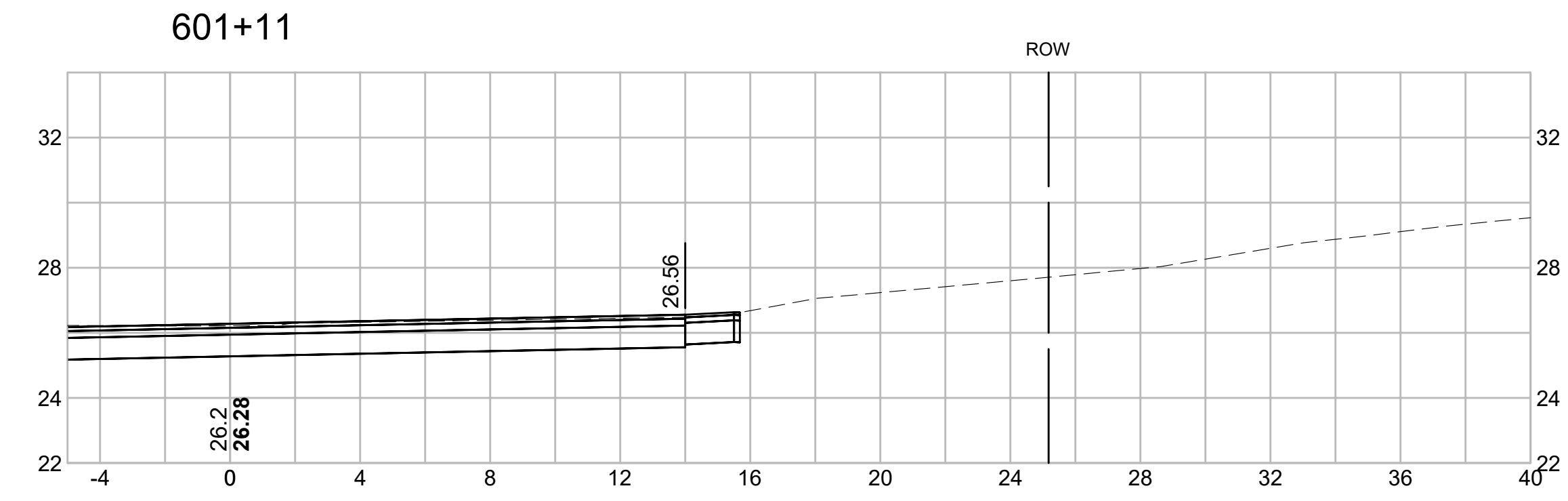
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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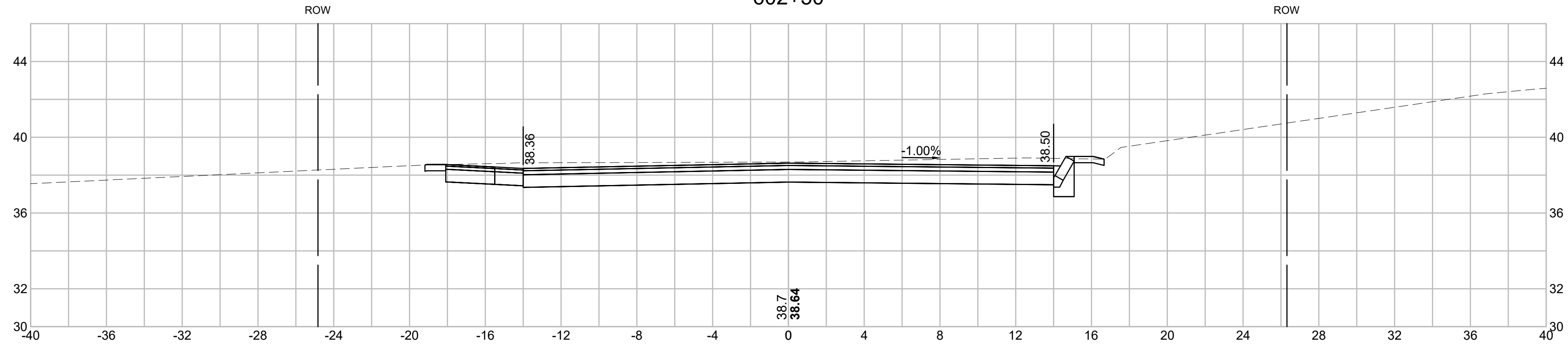
1/18/2018
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 CROSS
 SECTIONS**

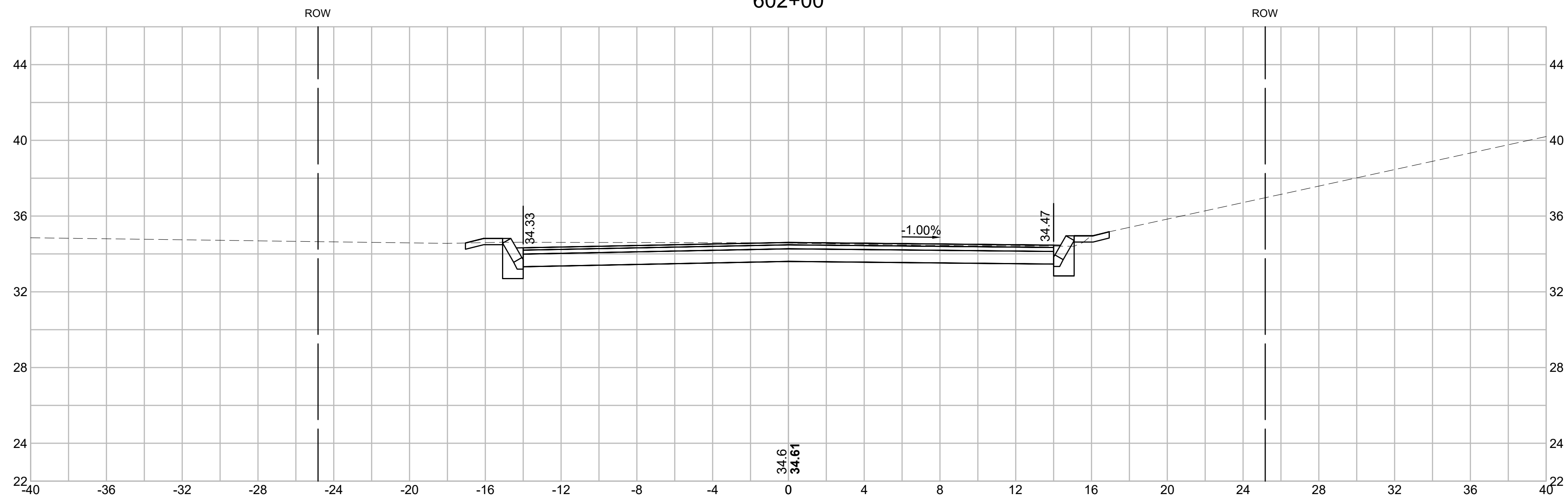
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 2015086.00
 164 OF 184



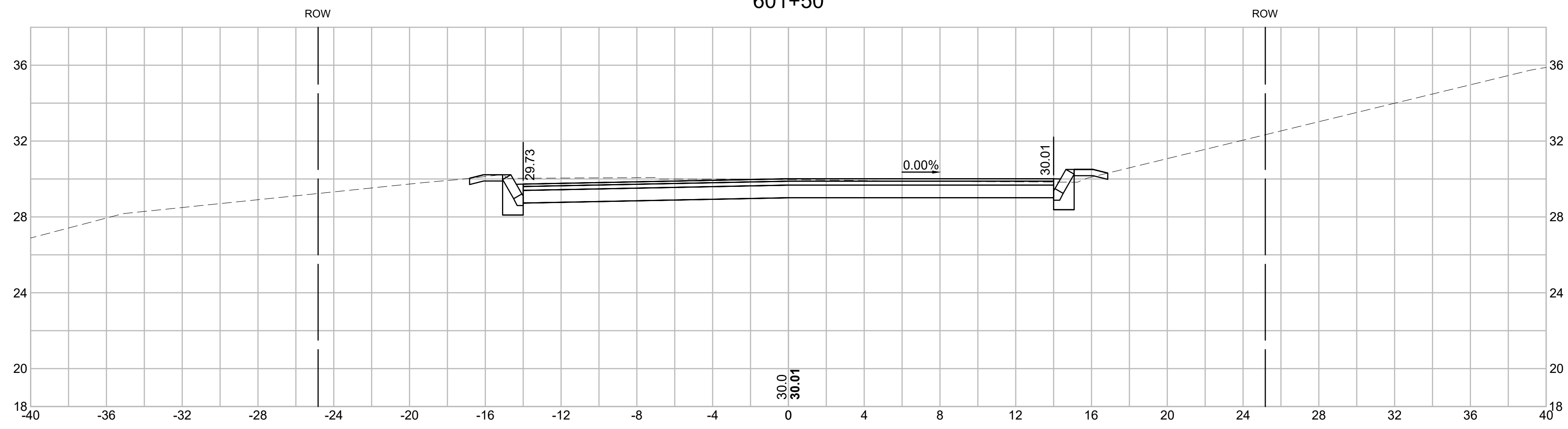
602+50



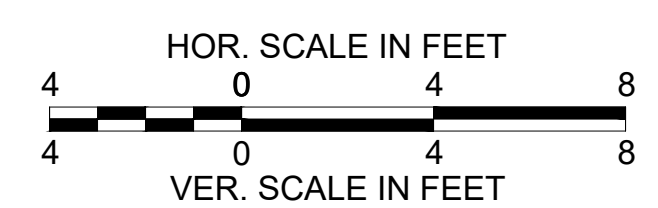
602+00



601+50



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AVENUE & ADJACENT AREAS
MAPLEWOOD AVENUE
PORTSMOUTH, NH**

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NO.	REVISION	DATE

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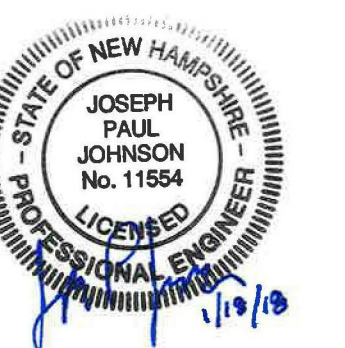
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**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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1/18/2018

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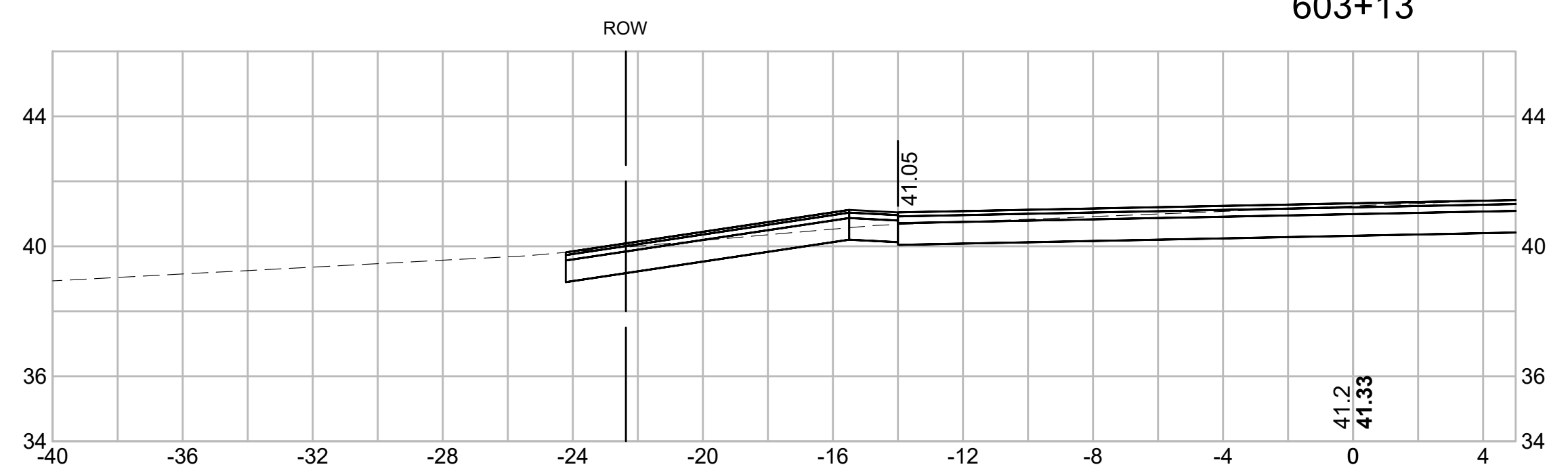
**LESLIE DRIVE
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SCALE: 1"=4'

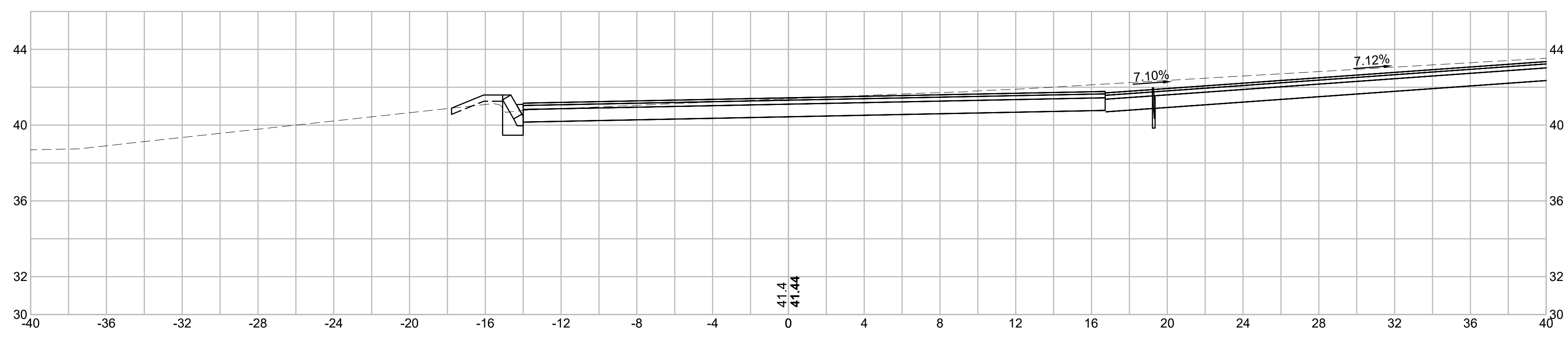
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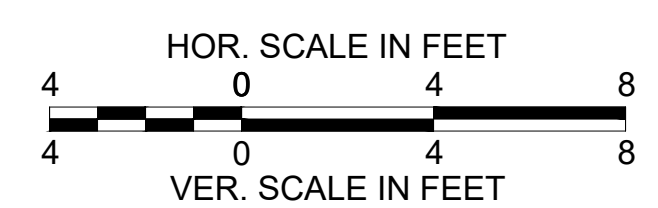
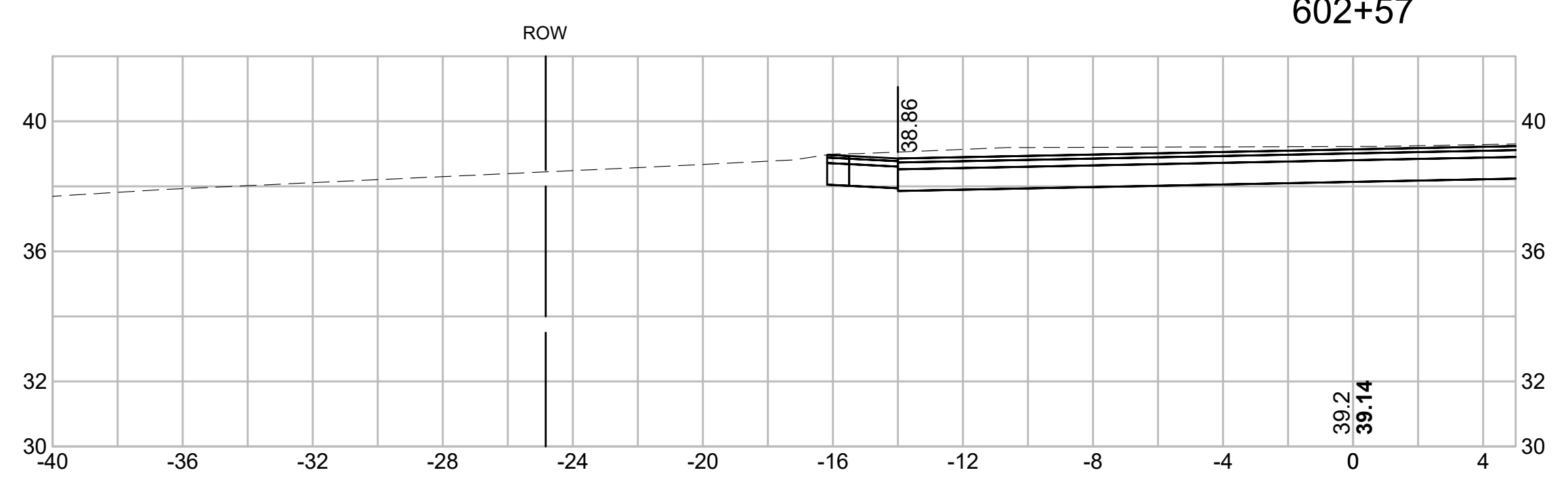
603+13



603+00



602+57





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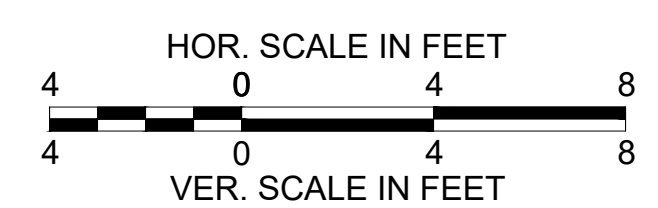
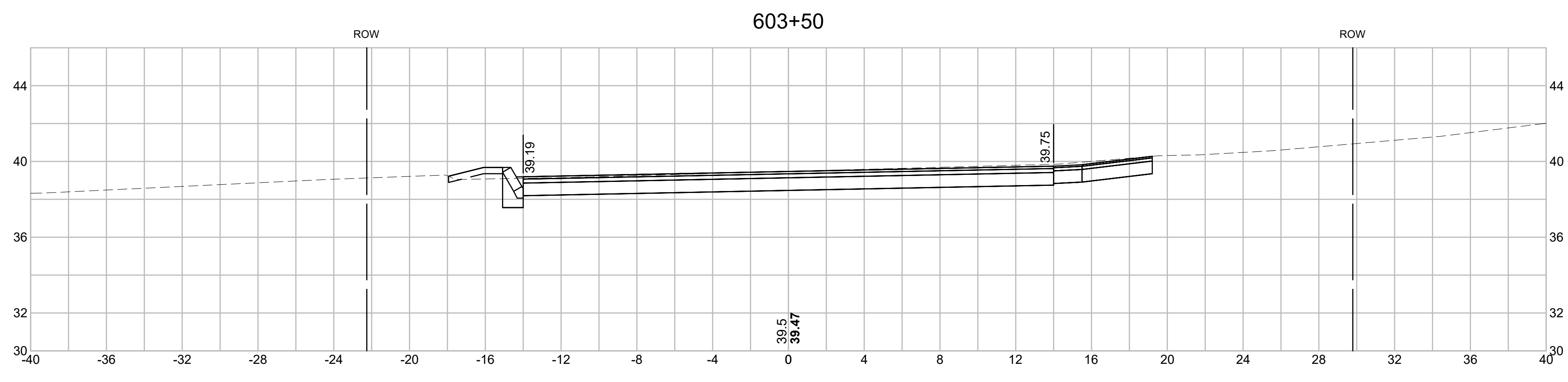
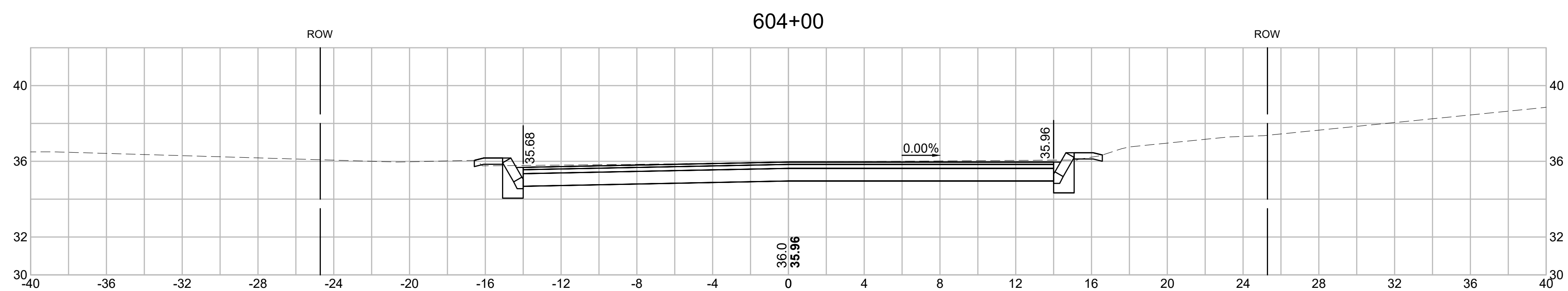
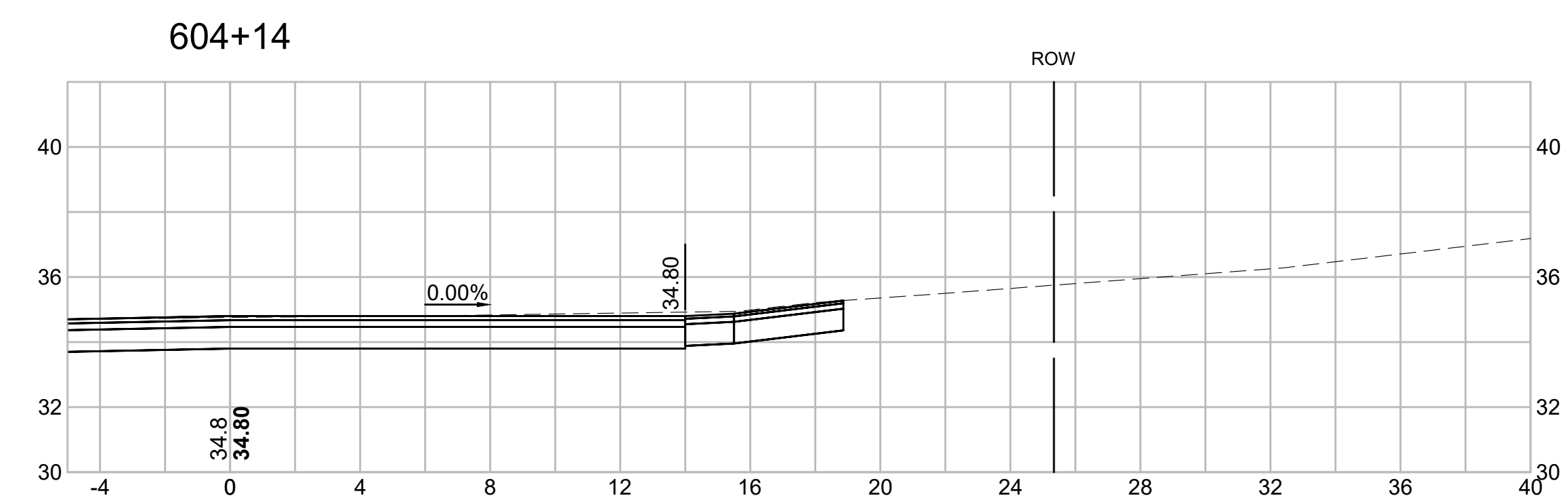
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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NO.	REVISION	DATE

1/18/2018
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**LESLIE DRIVE
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 SECTIONS**

SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
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 PORTSMOUTH, NH**

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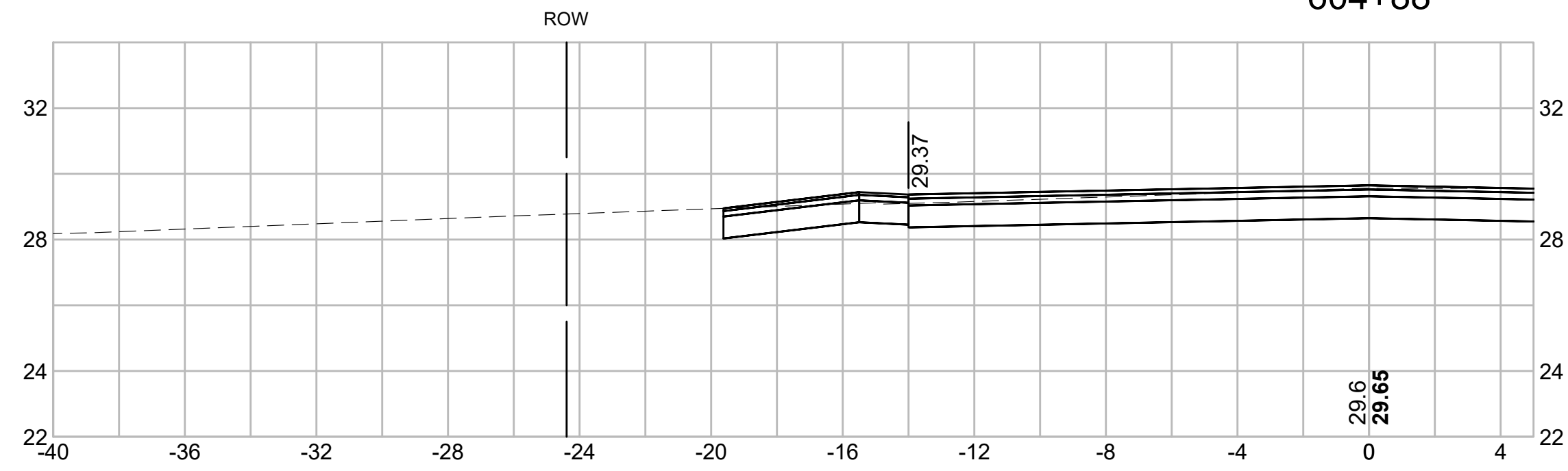
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SCALE: 1"=4'

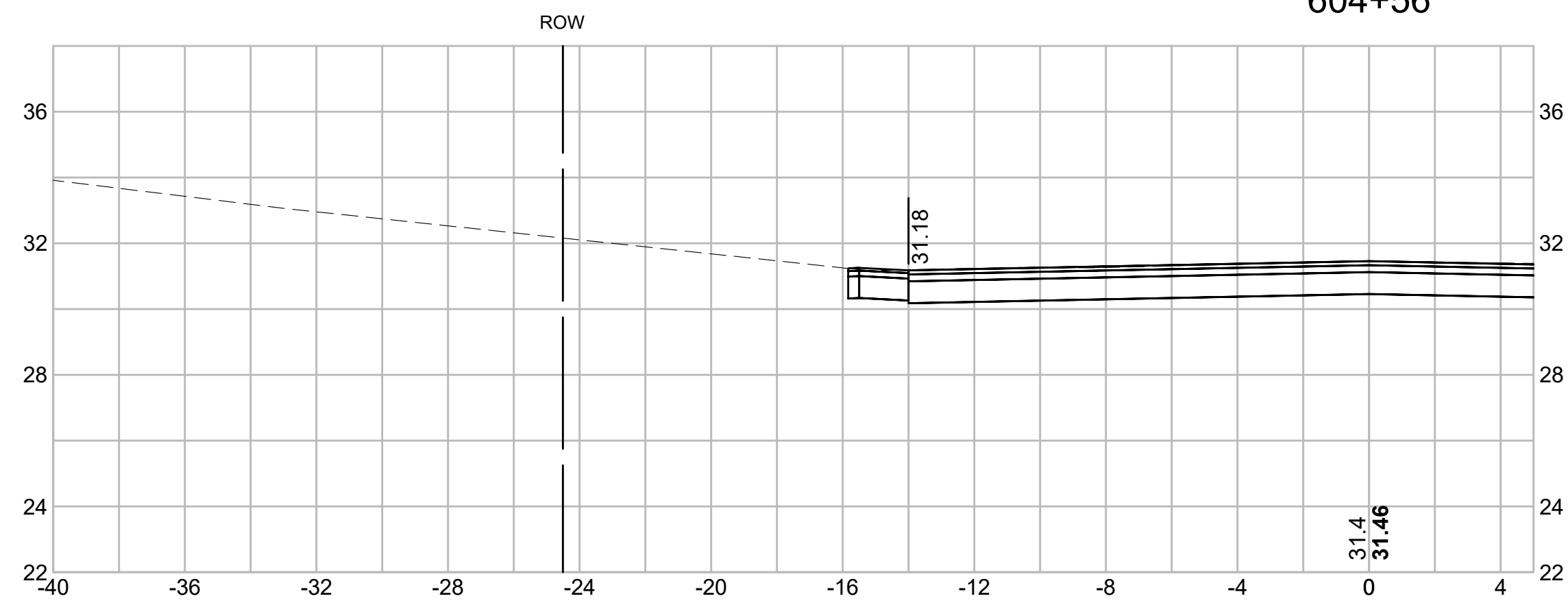
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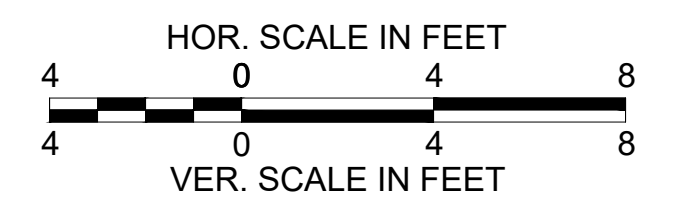
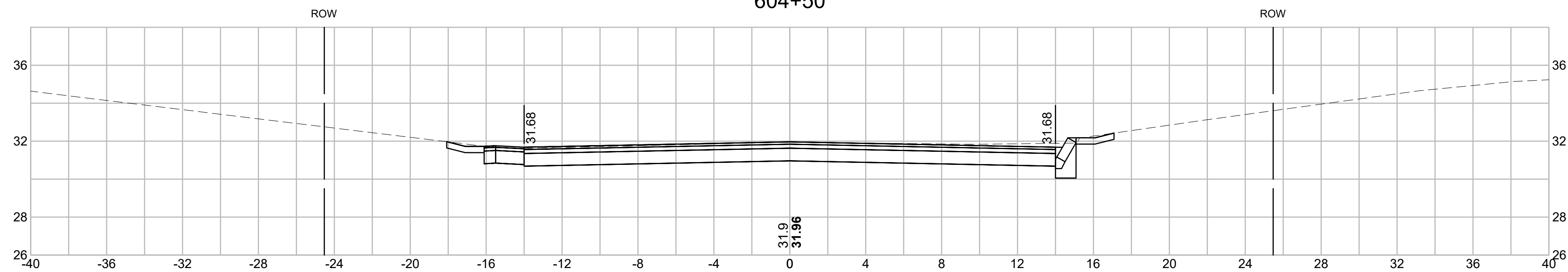
604+88



604+56



604+50





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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

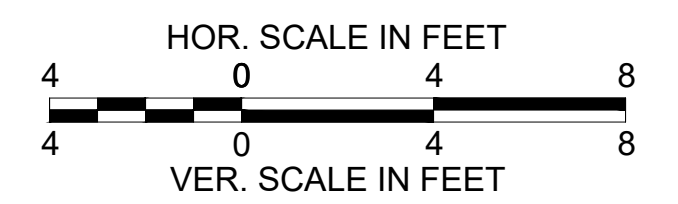
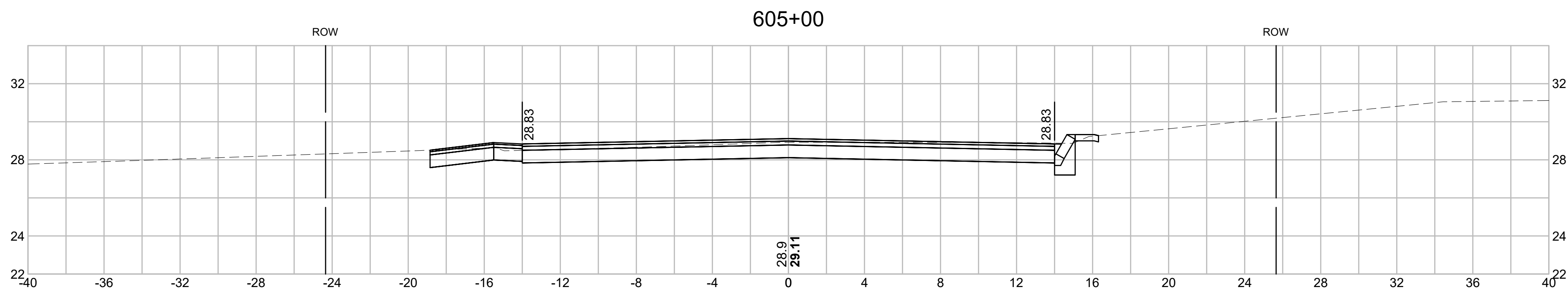
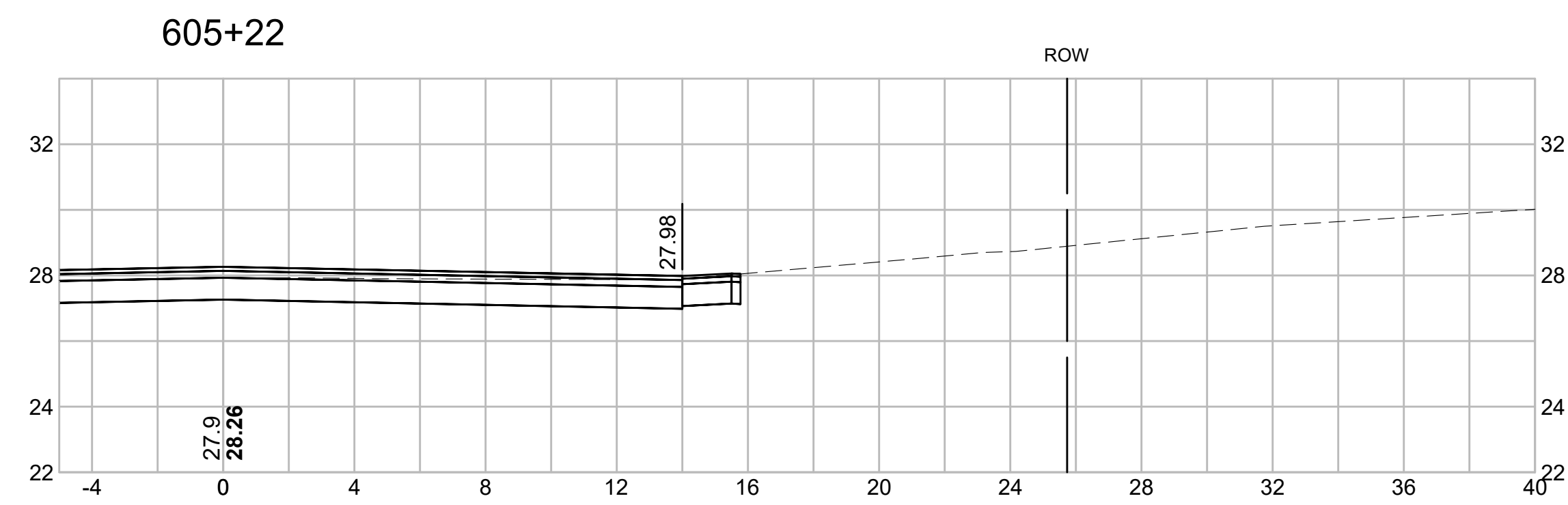
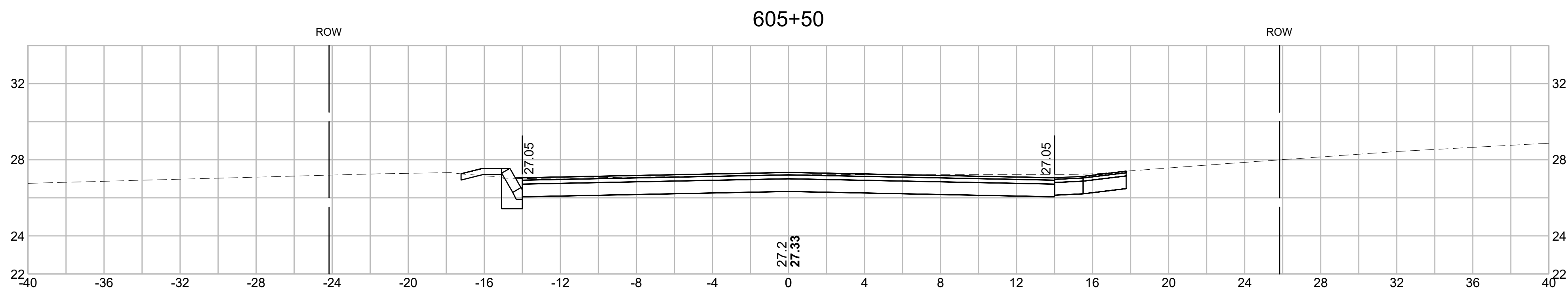
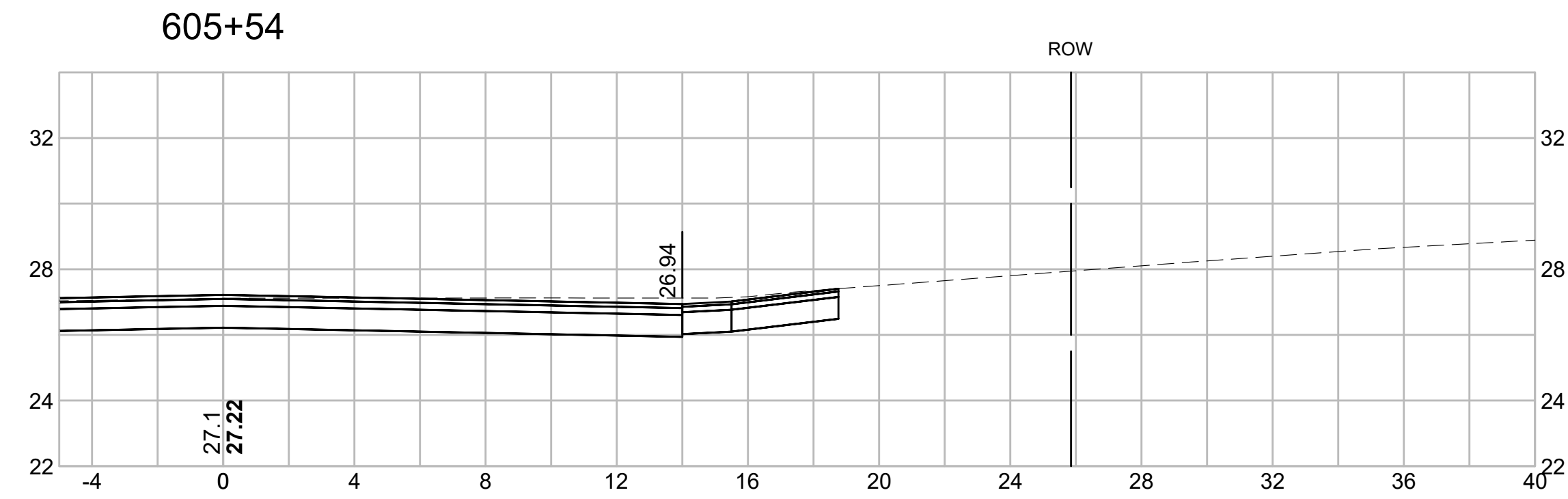
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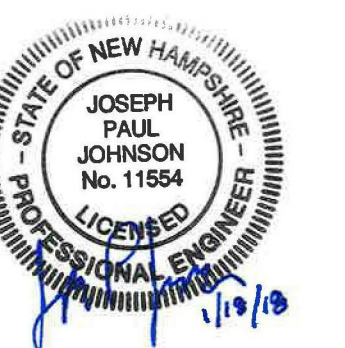
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 CROSS
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SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

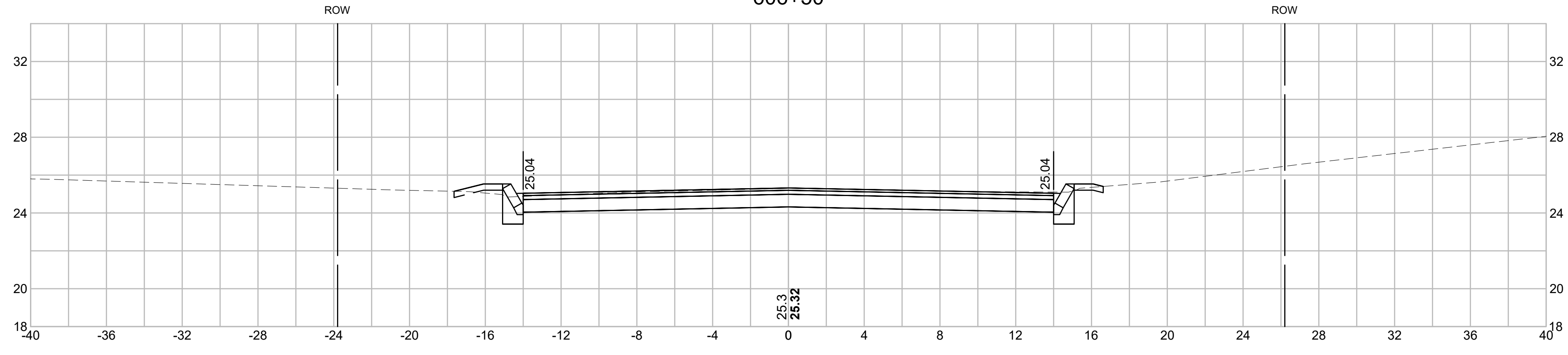
REVISIONS		
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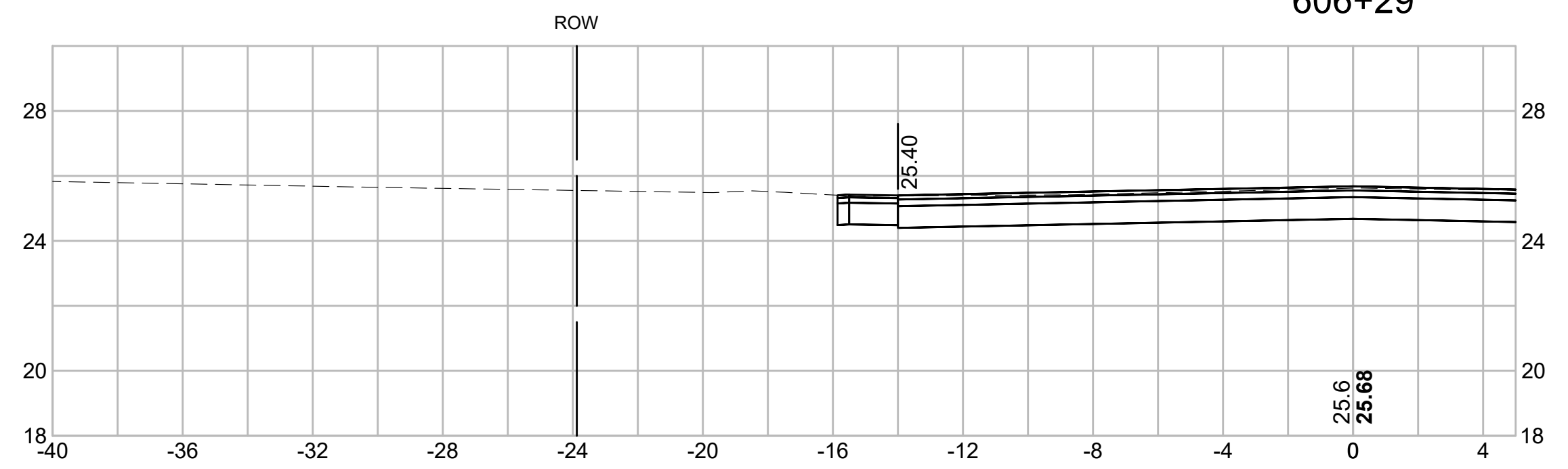
**LESLIE DRIVE
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SCALE: 1"=4'
 2015086.00
 170 OF 184

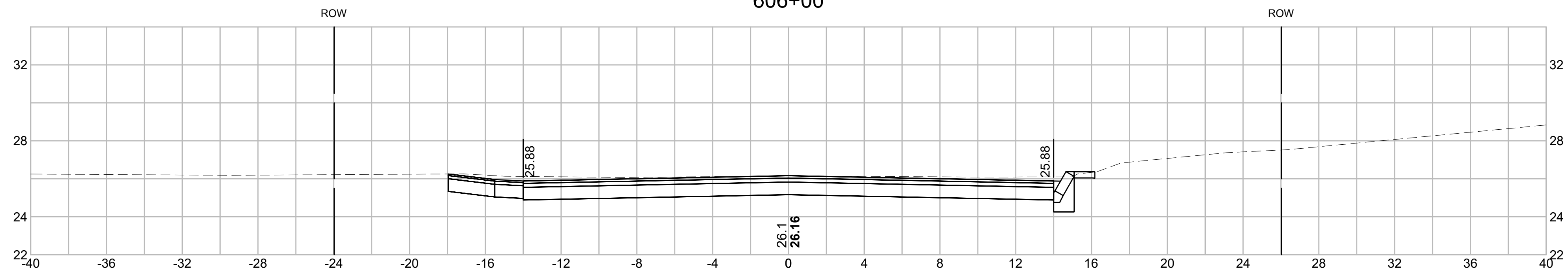
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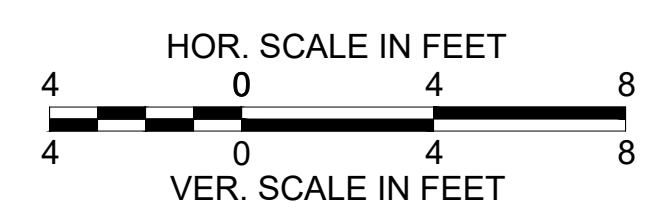
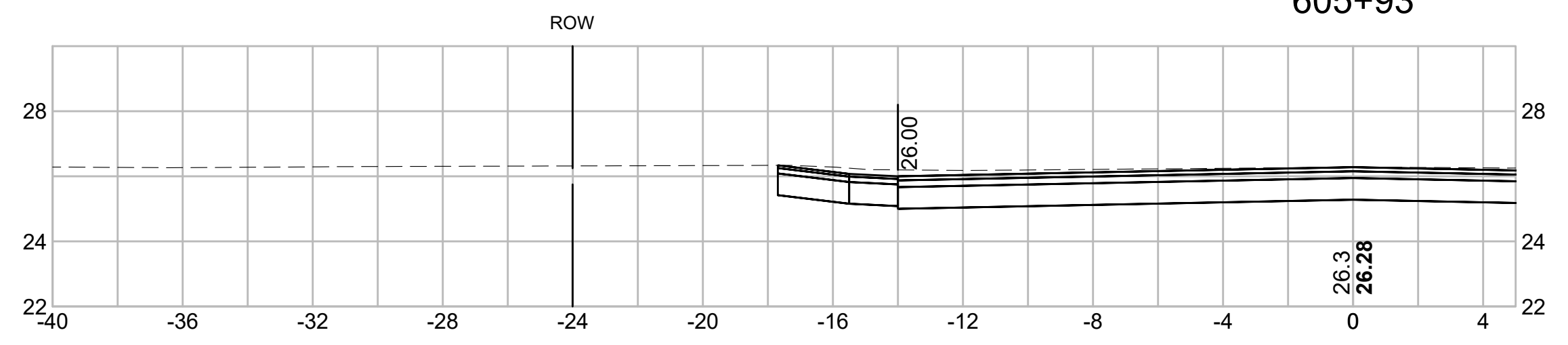
606+29



606+00



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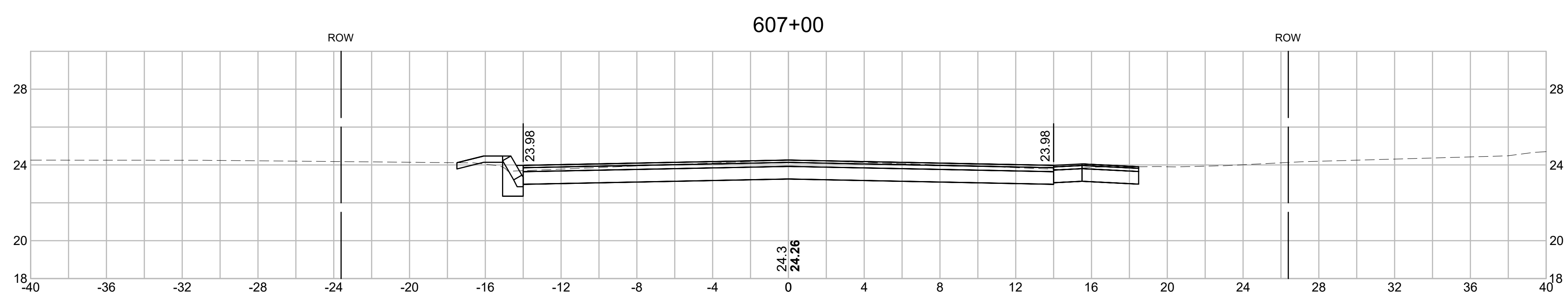
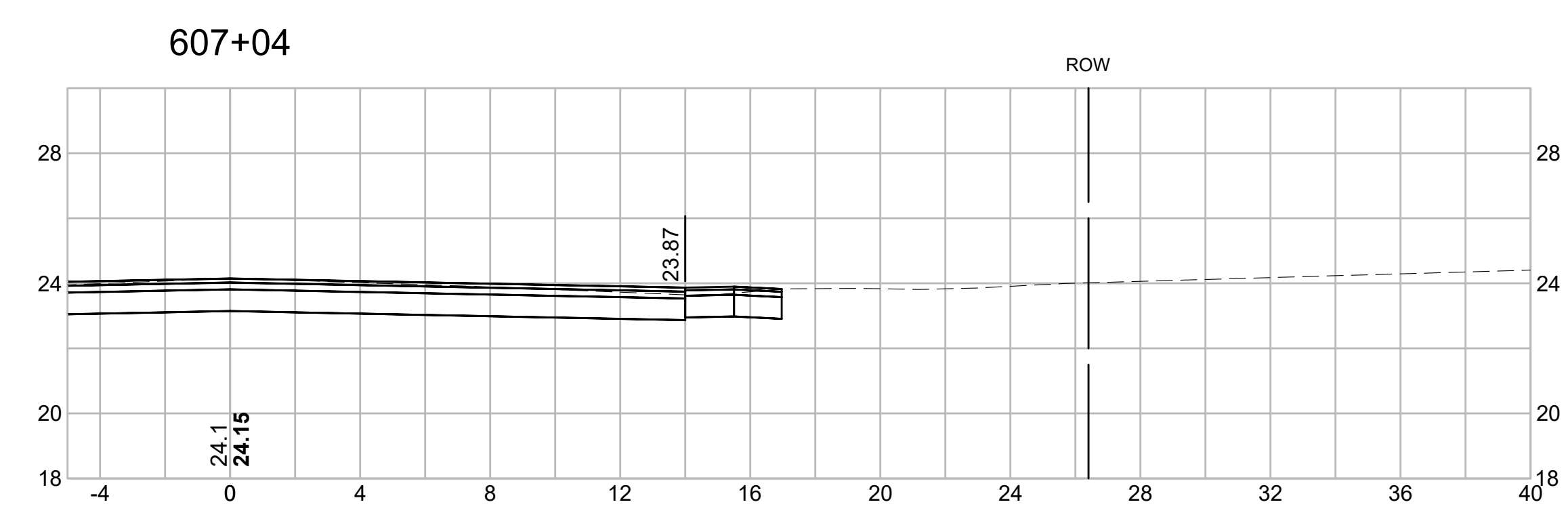
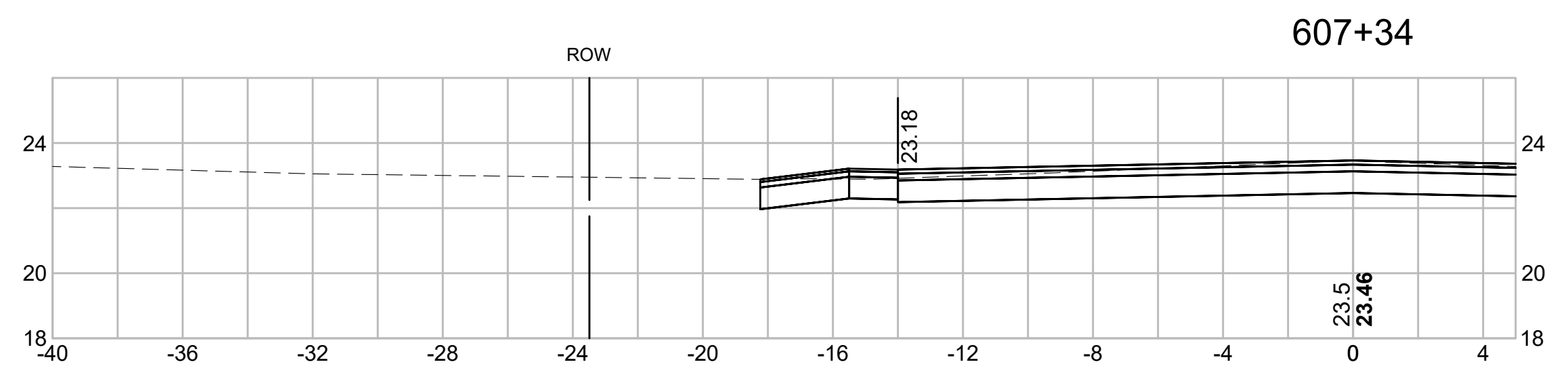
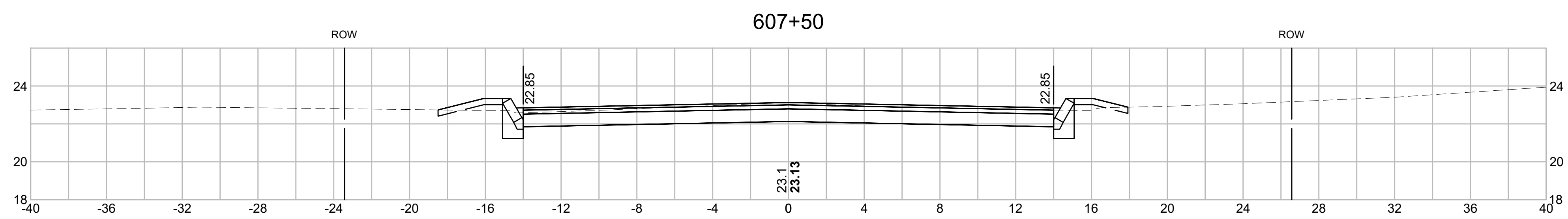
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
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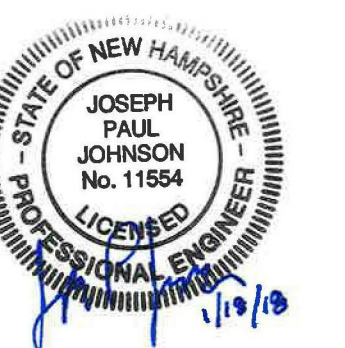
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SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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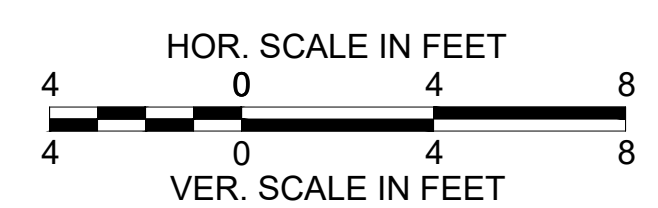
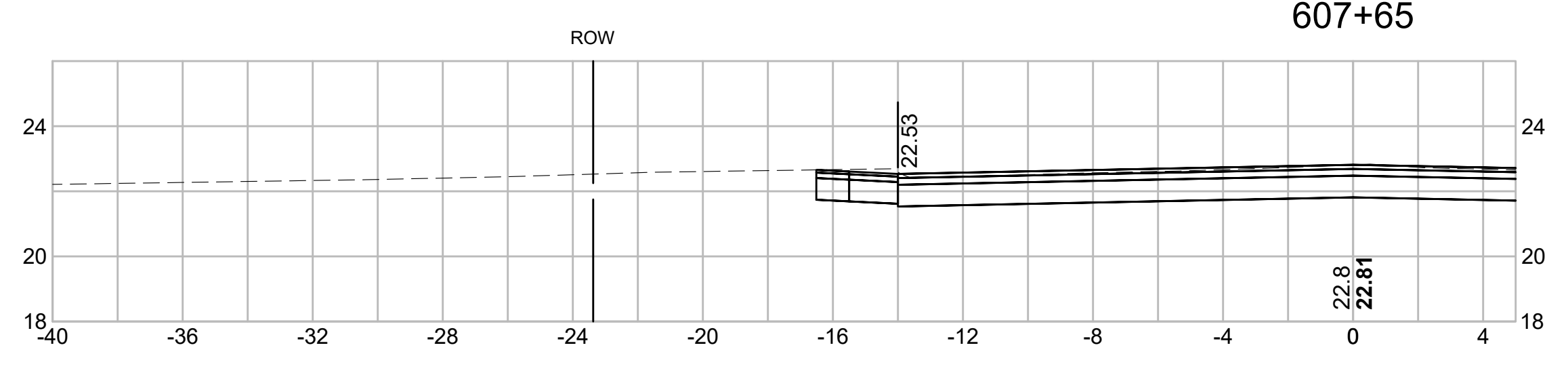
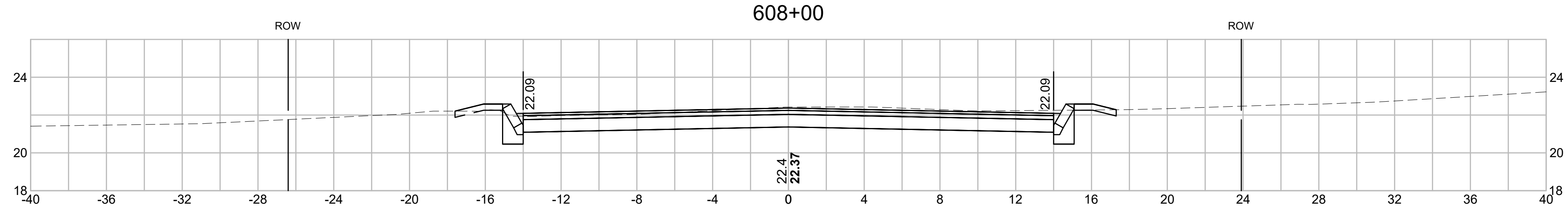
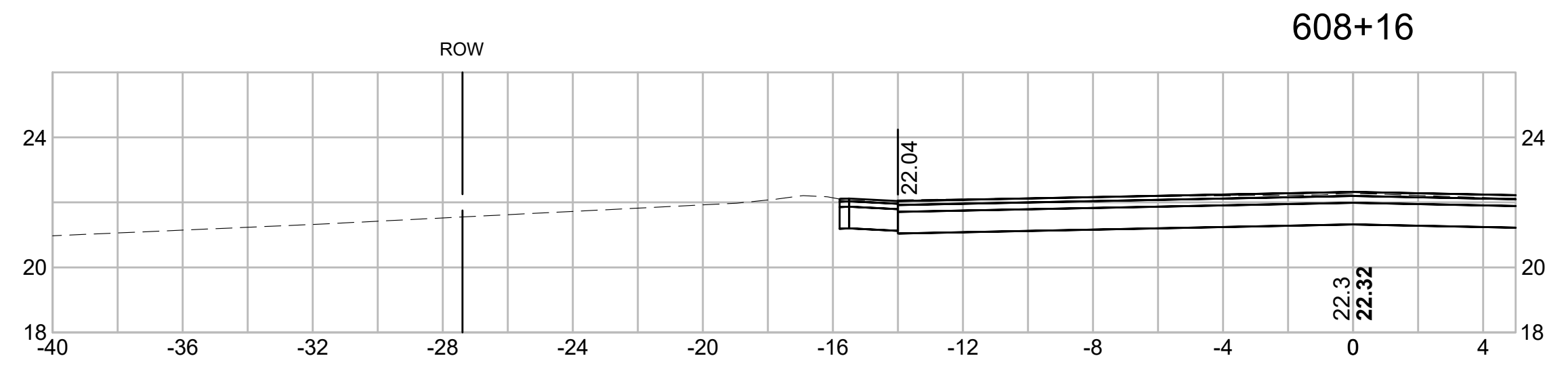
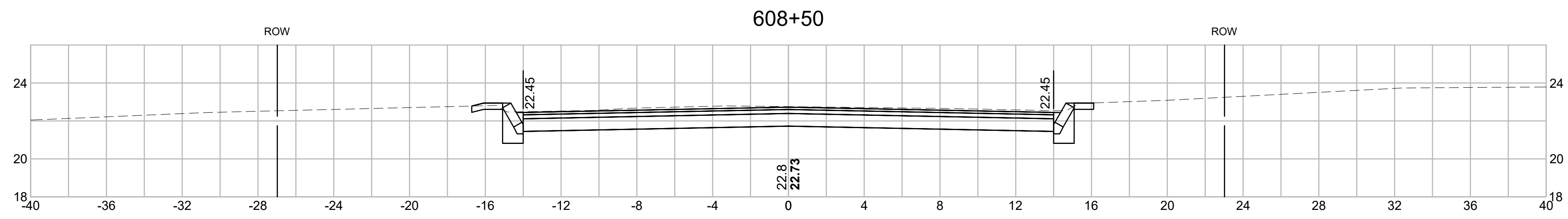
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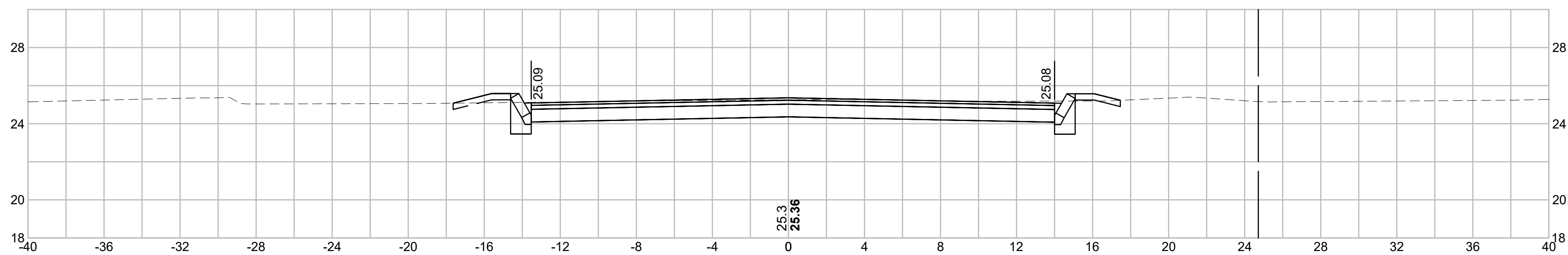
2015086.00

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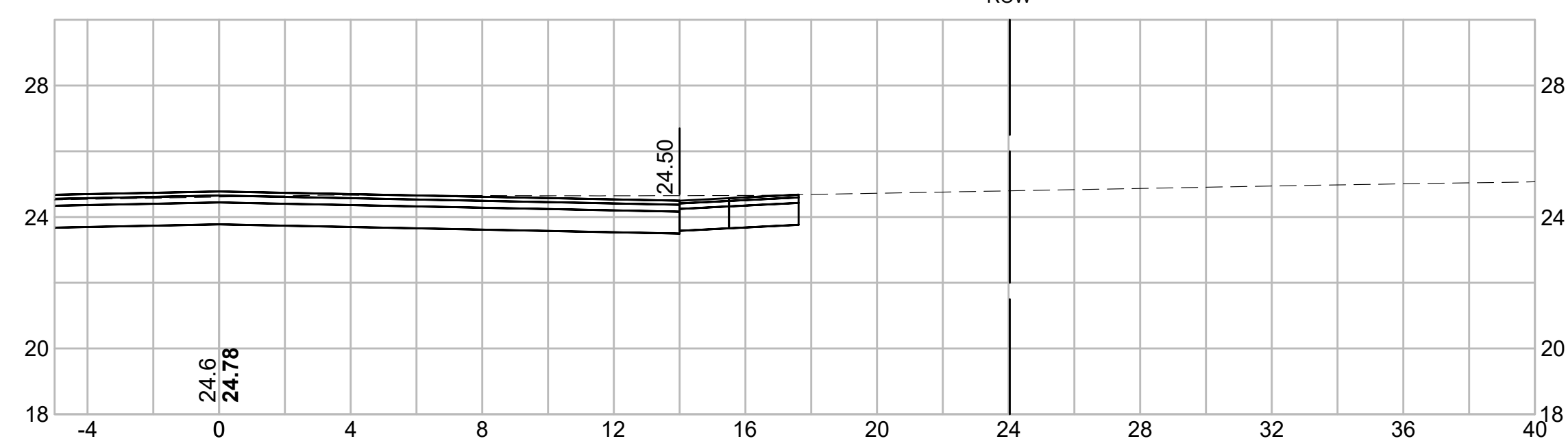
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ROW



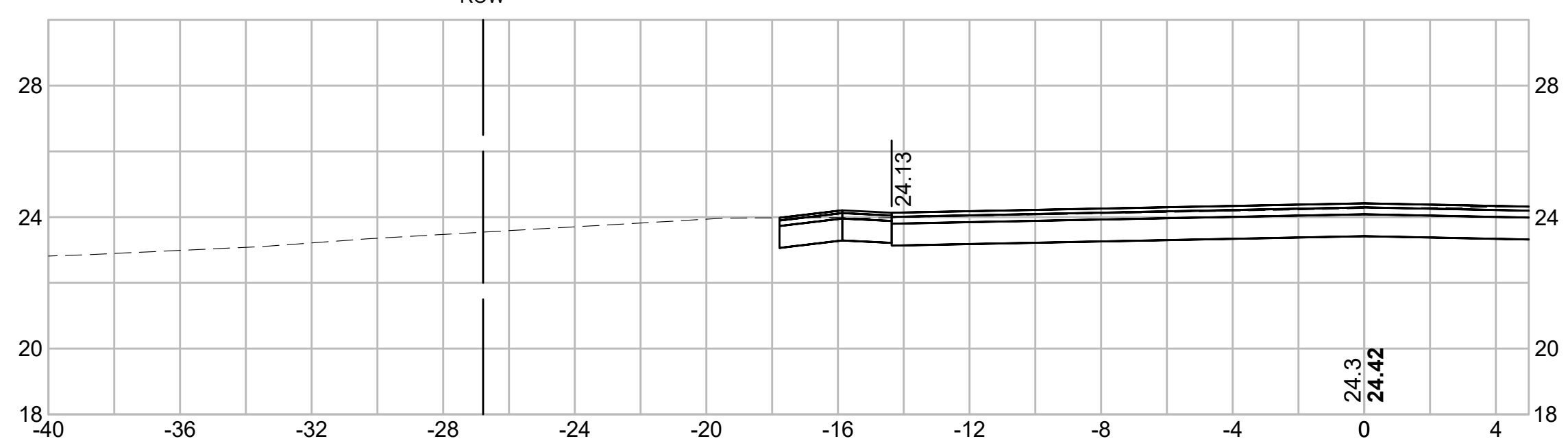
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ROW



609+14

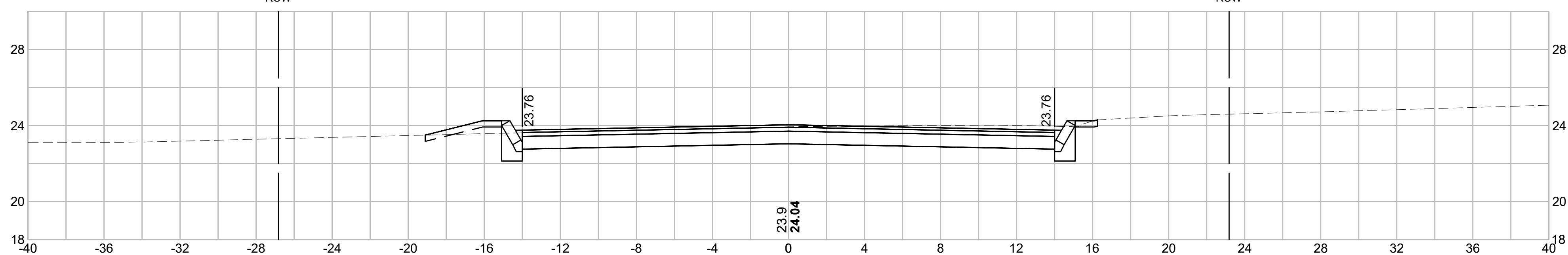
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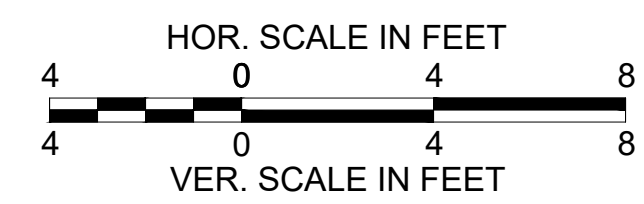
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ROW

ROW

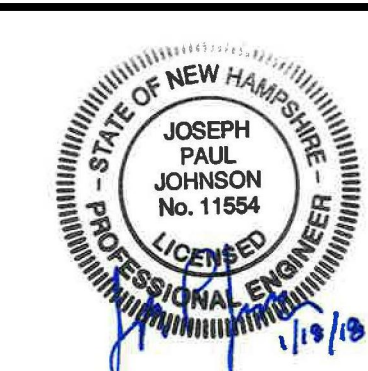


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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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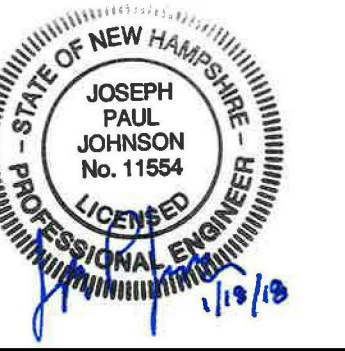
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**LESLIE DRIVE
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 SECTIONS**

SCALE: 1"=4'

2015086.00

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**IMPROVEMENTS TO MAPLEWOOD
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 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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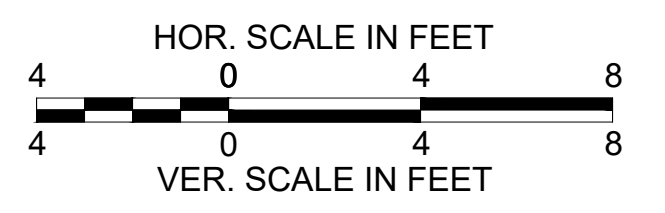
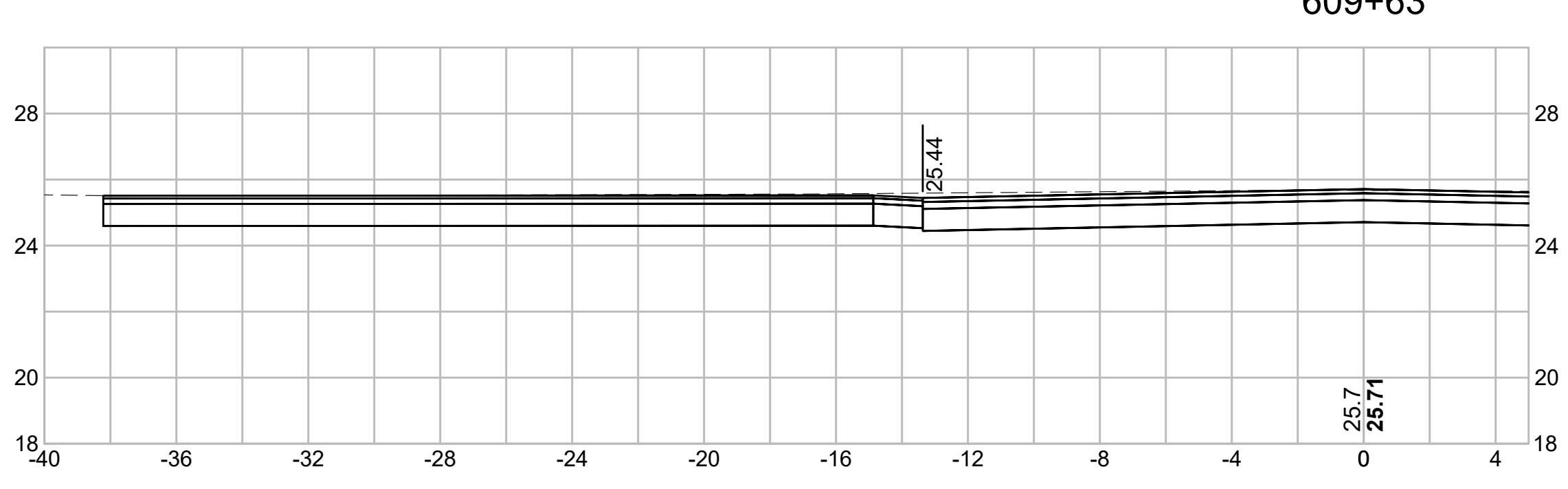
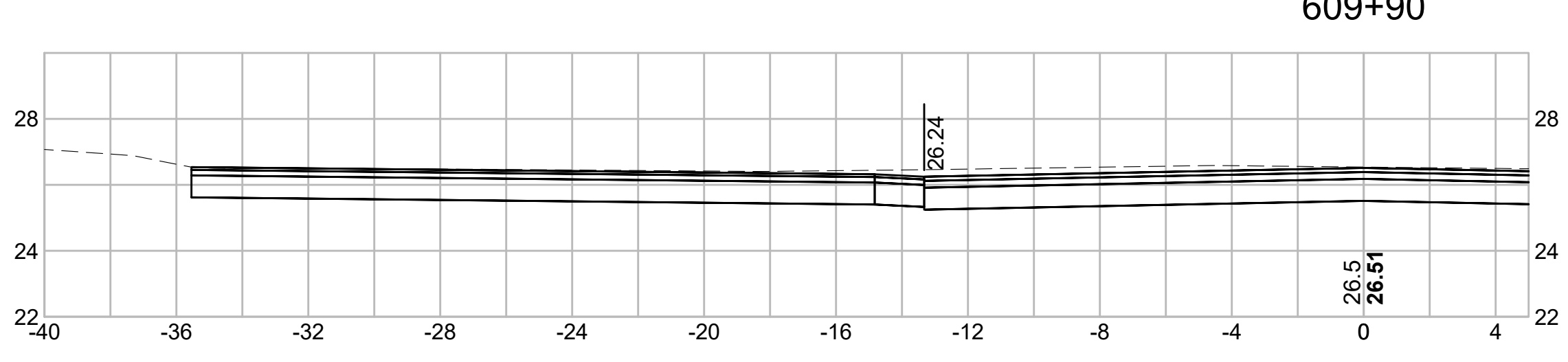
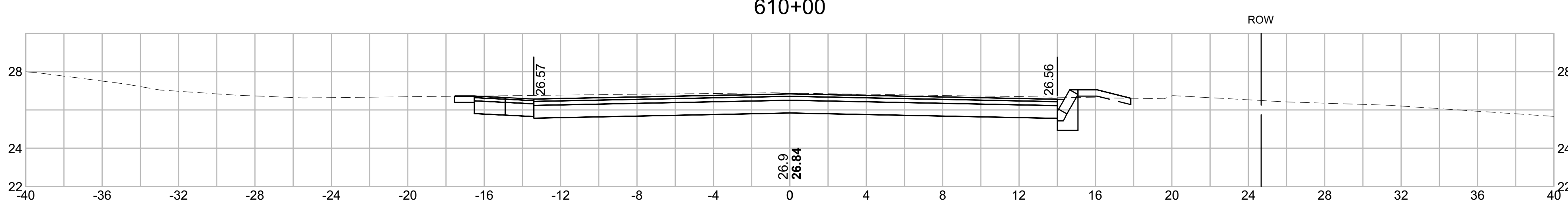
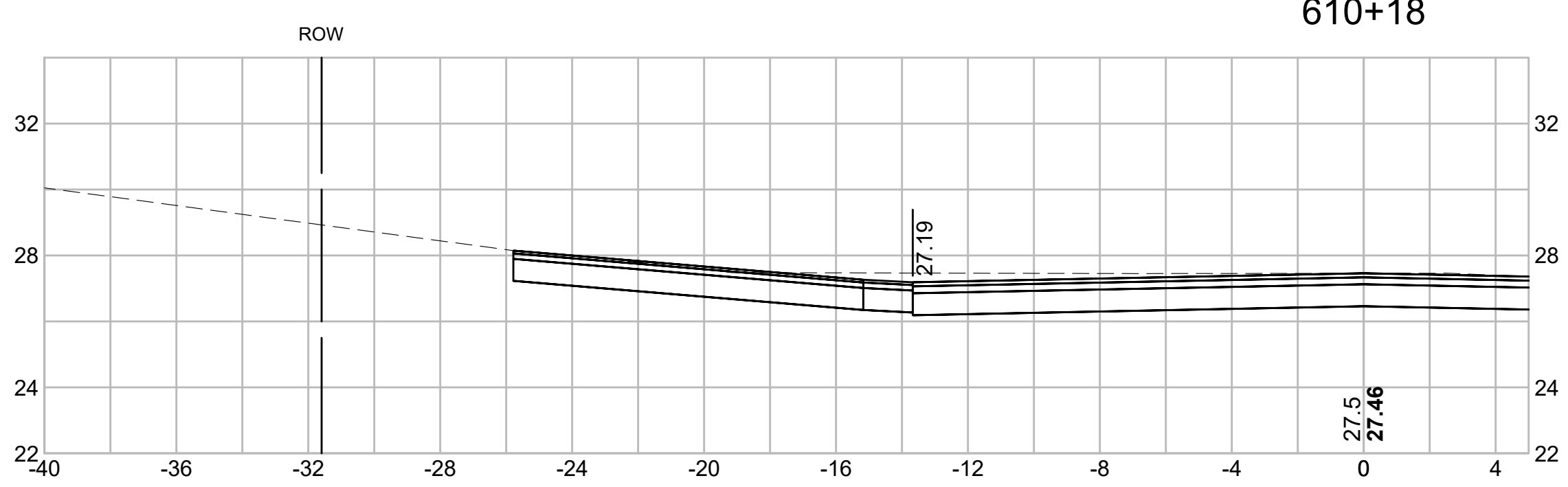
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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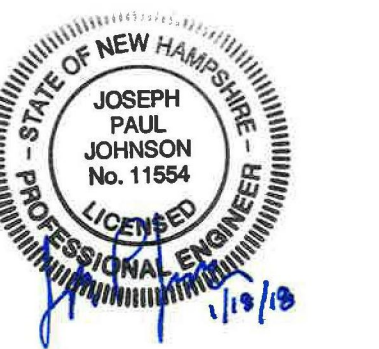
**LESLIE DRIVE
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SCALE: 1"=4'

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 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
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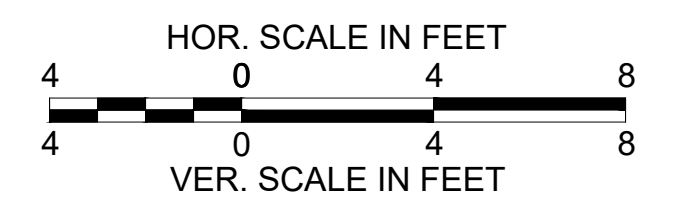
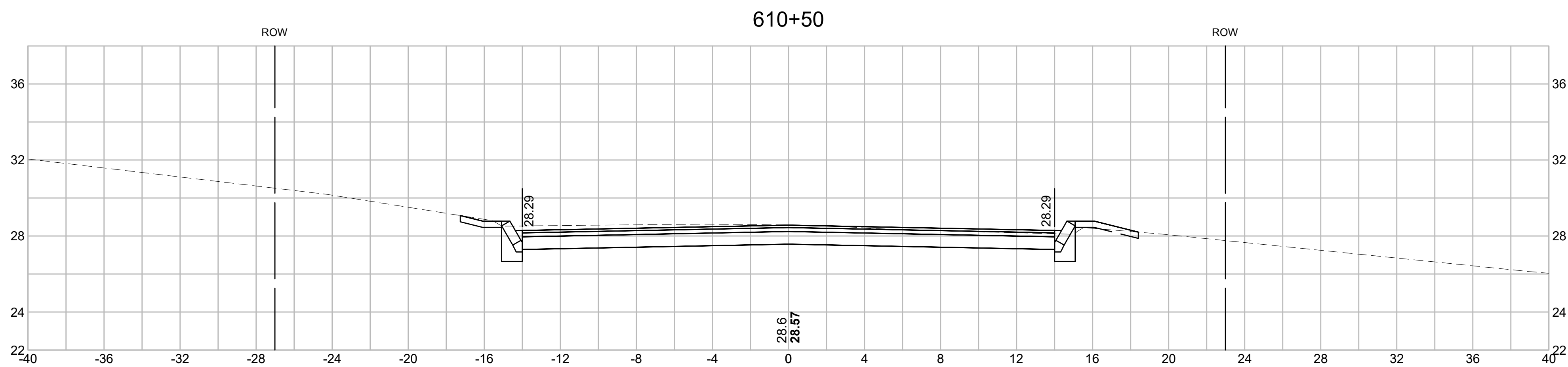
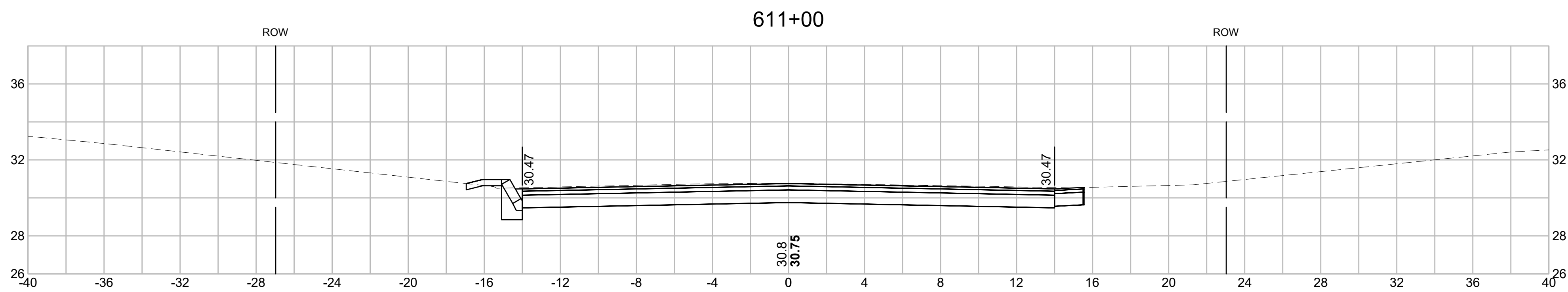
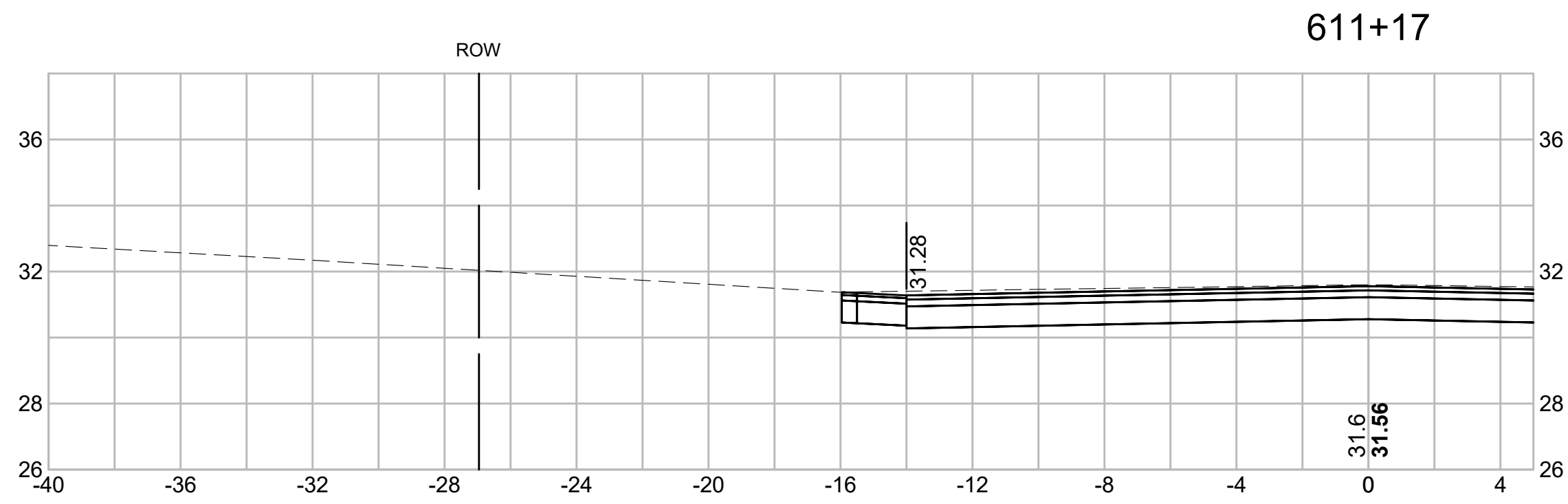
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

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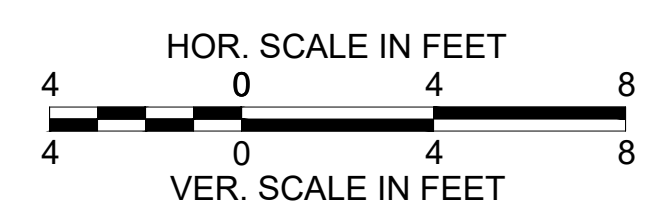
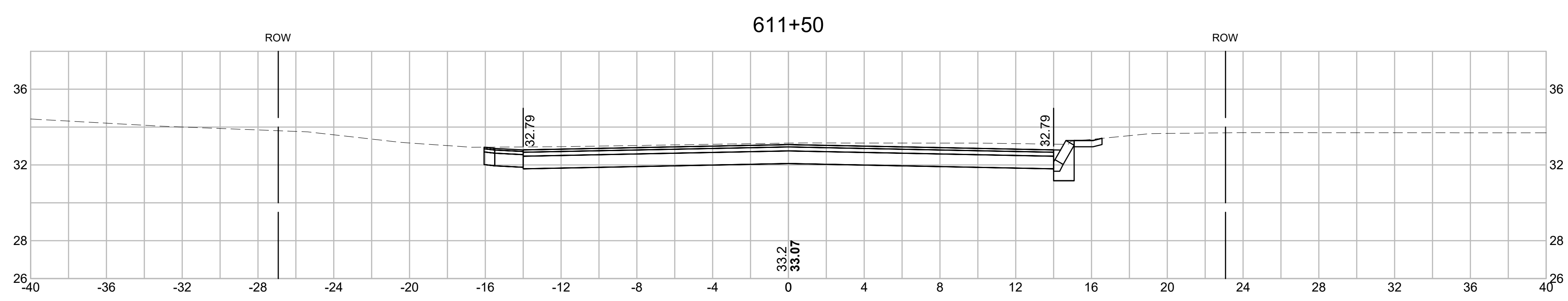
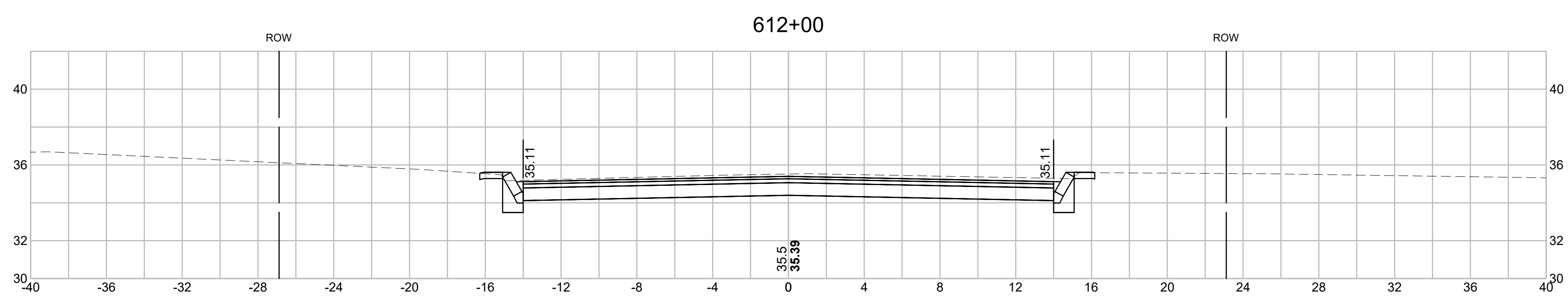
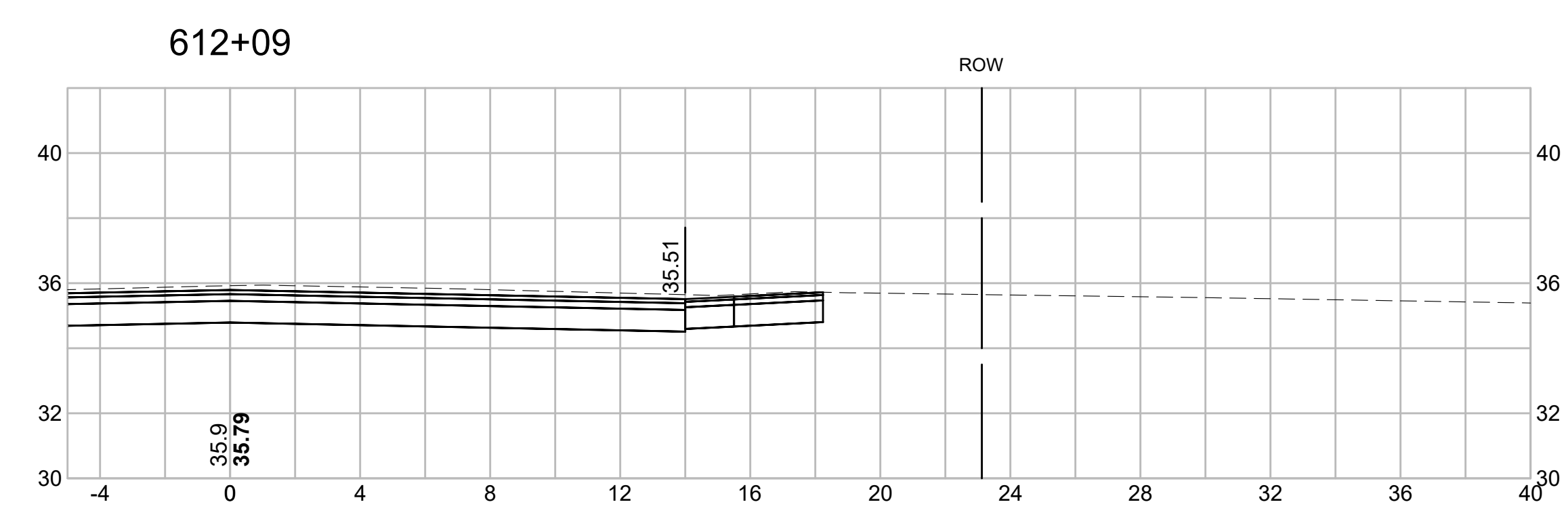
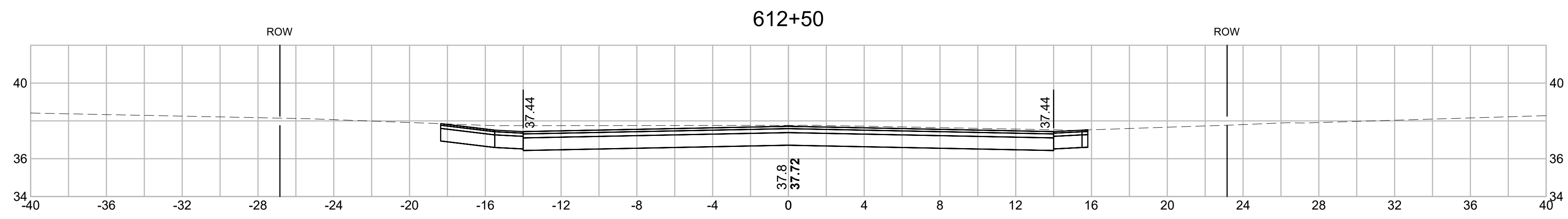
SCALE: 1"=4'
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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**



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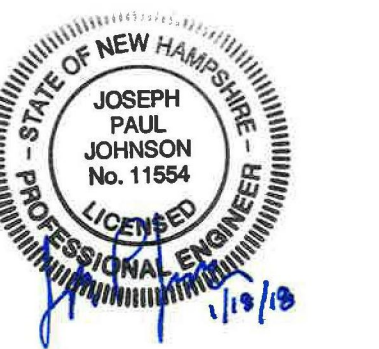
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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**LESLIE DRIVE
 CROSS
 SECTIONS**

SCALE: 1"=4'

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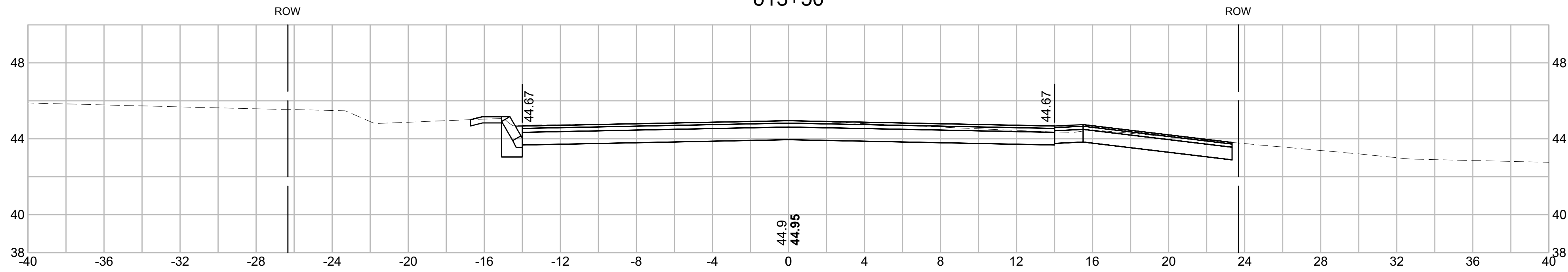
1/18/2018

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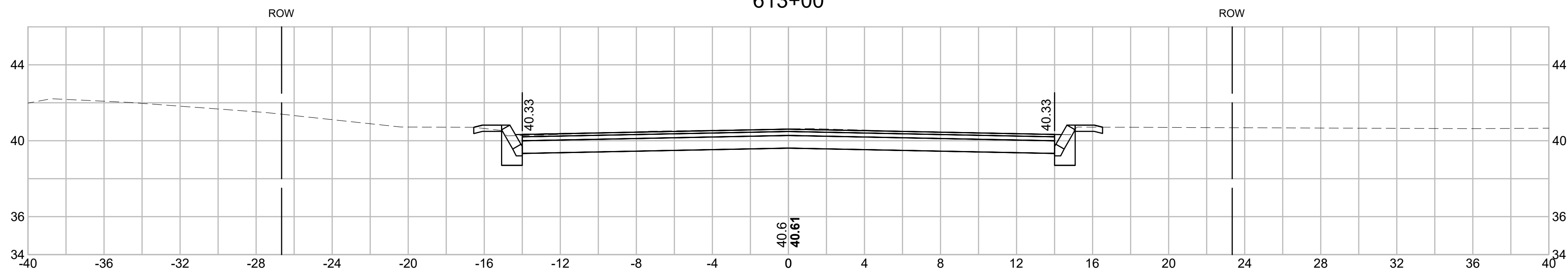
**LESLIE DRIVE
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SCALE: 1"=4'
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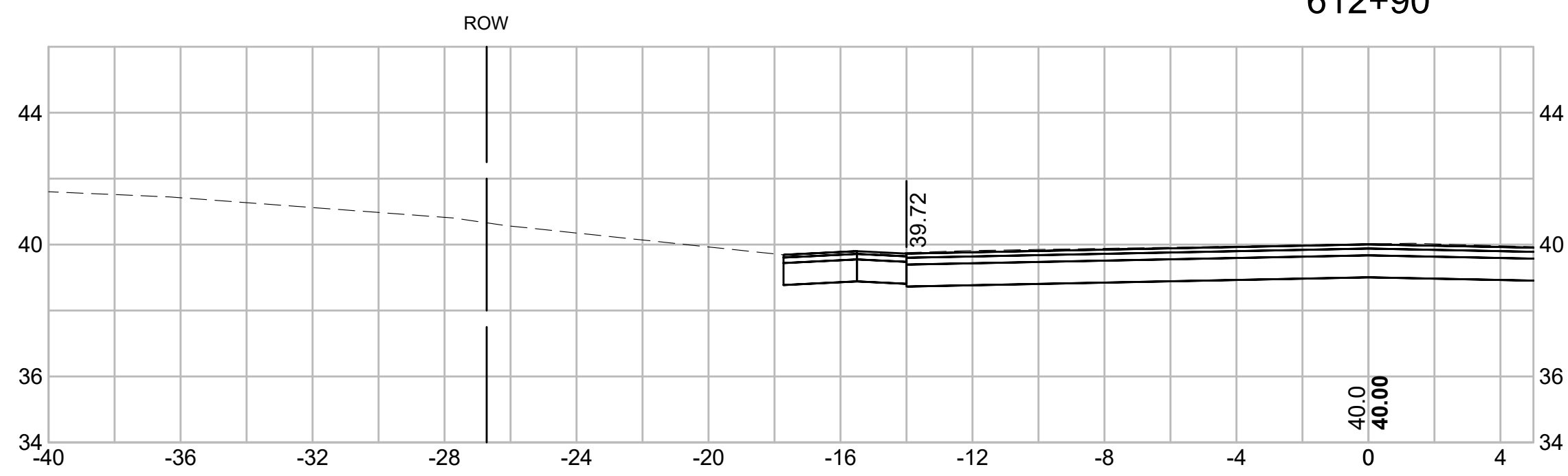
613+50



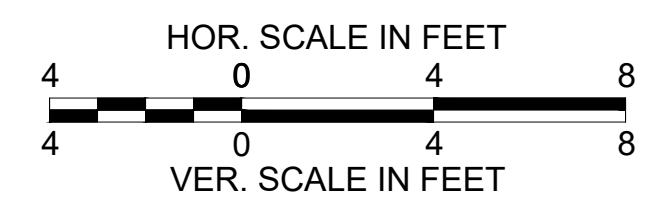
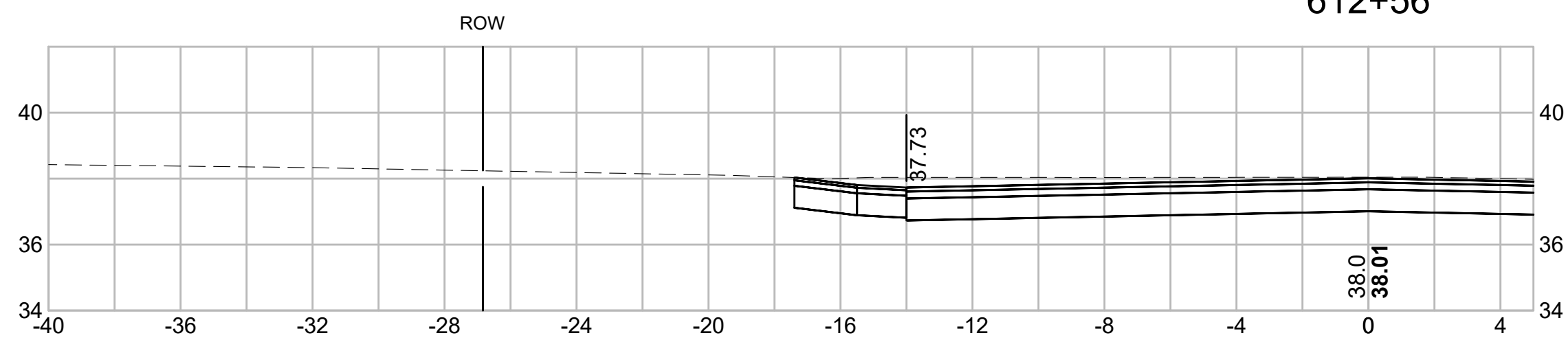
613+00



612+90



612+56





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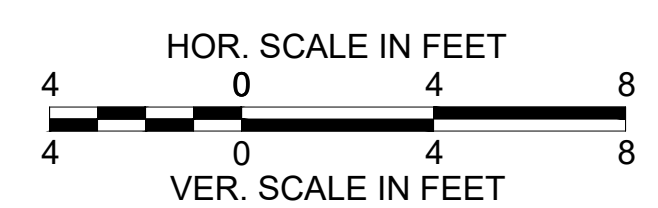
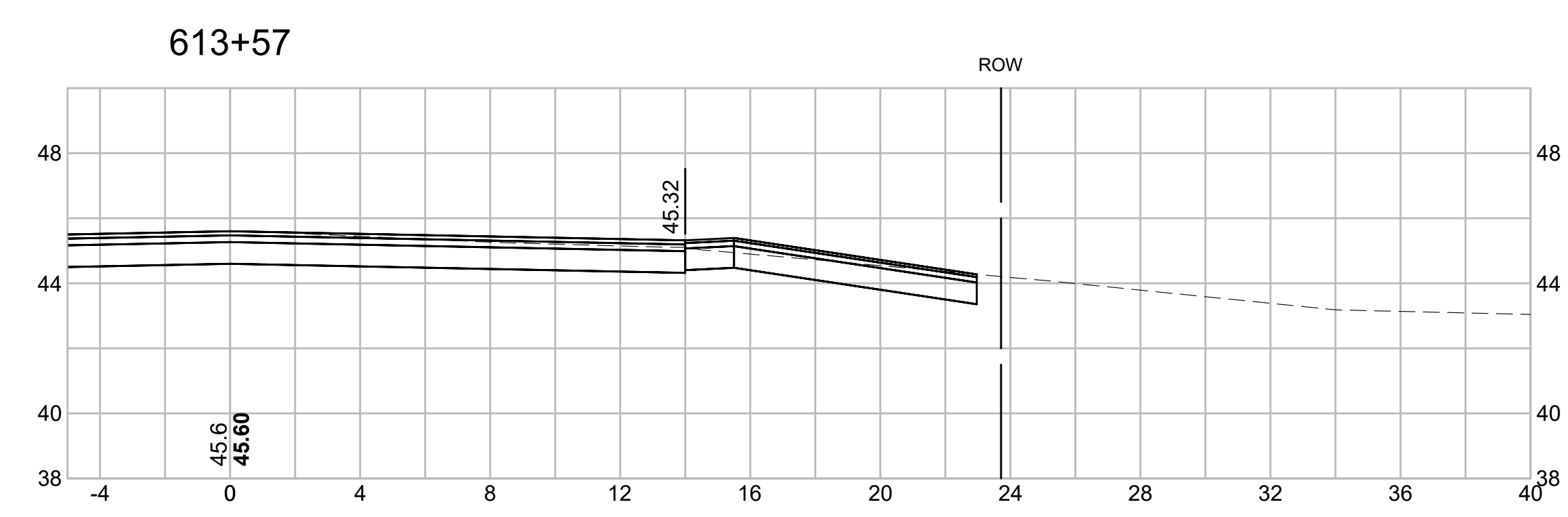
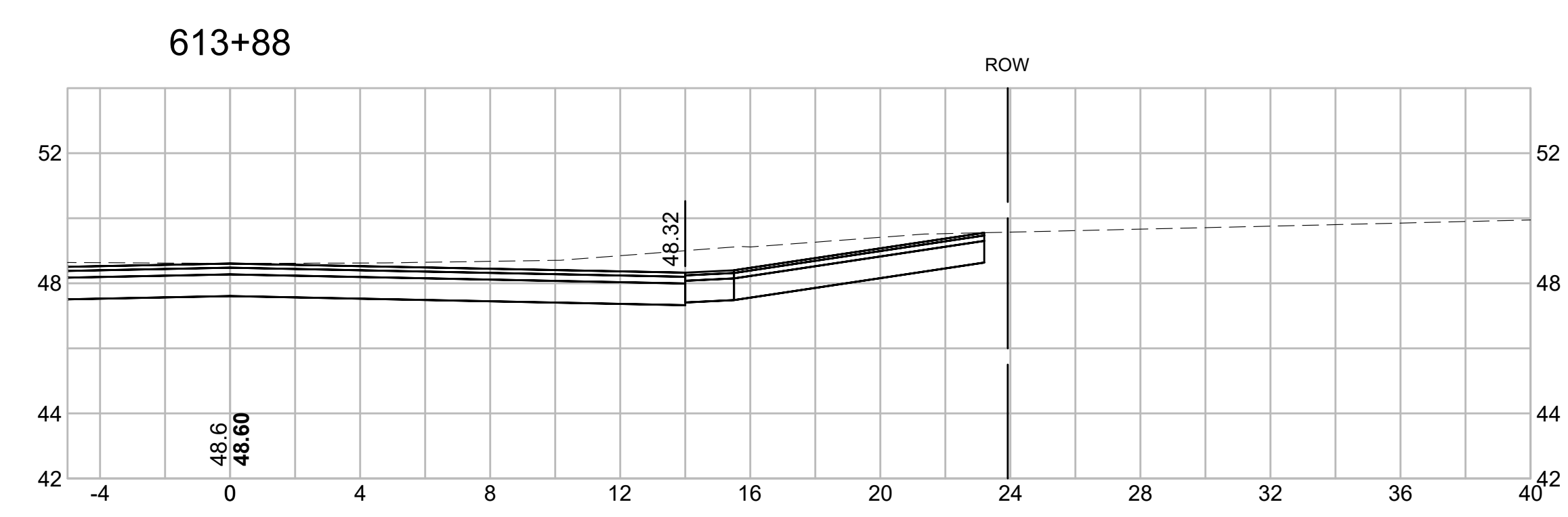
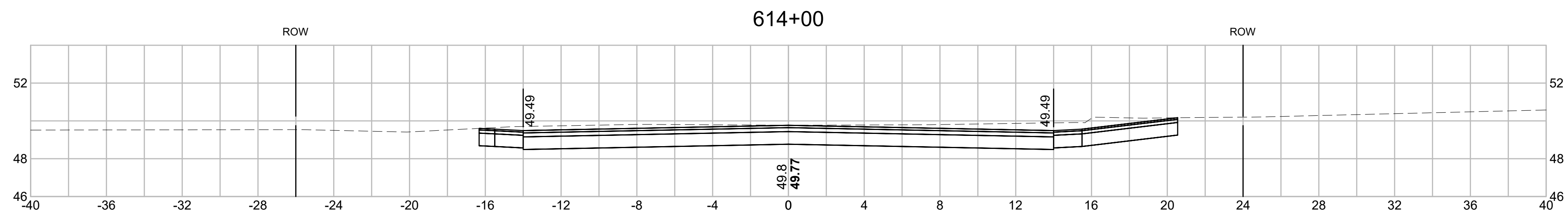
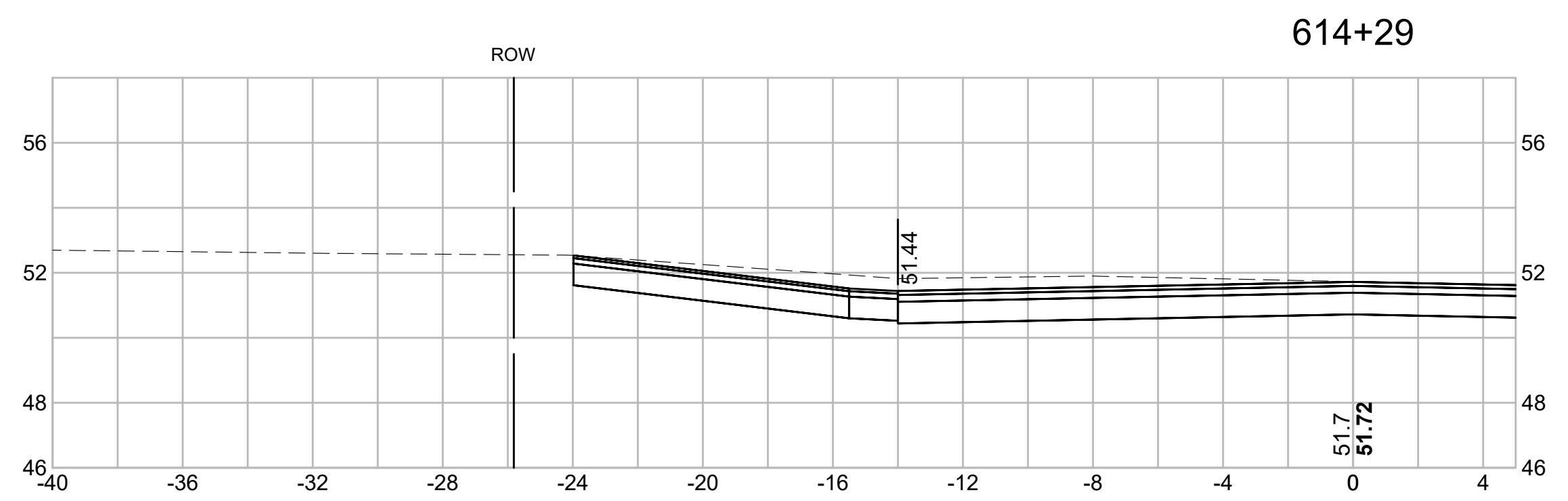
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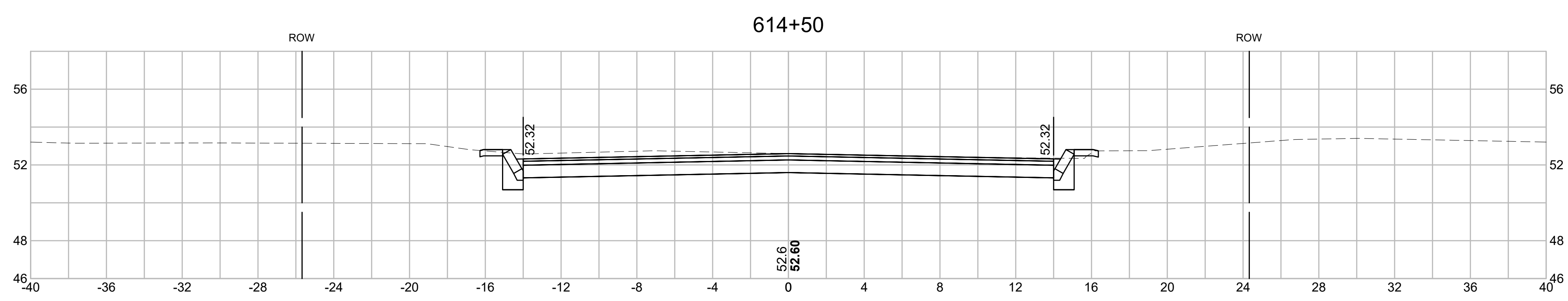
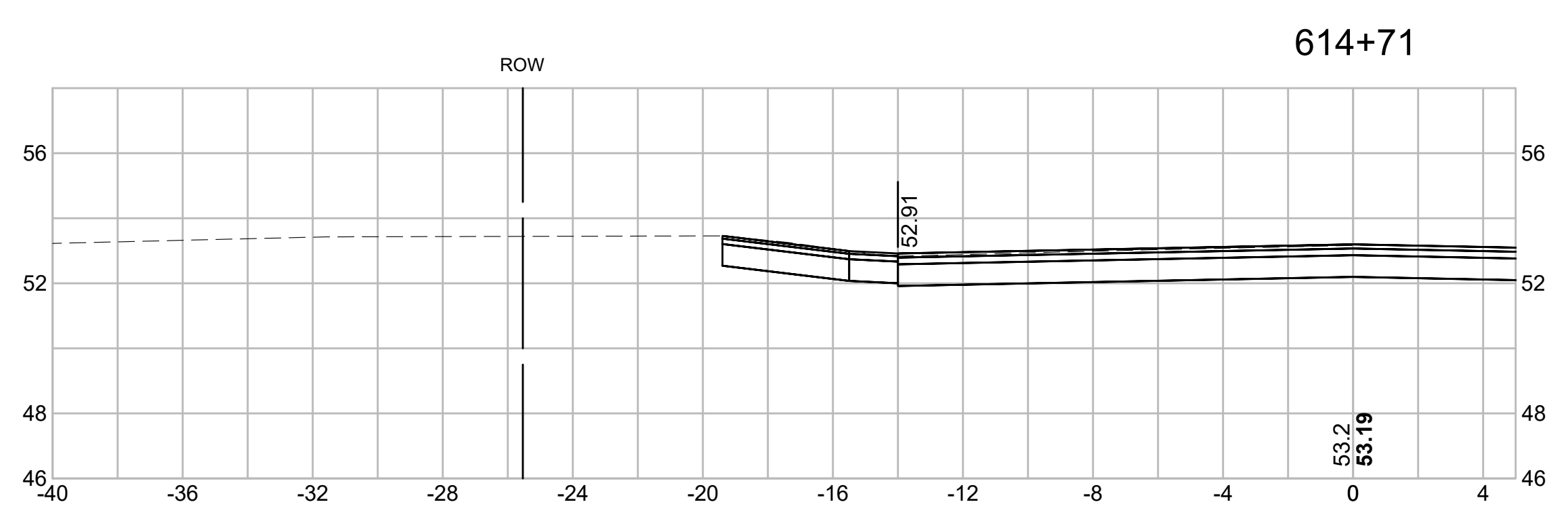
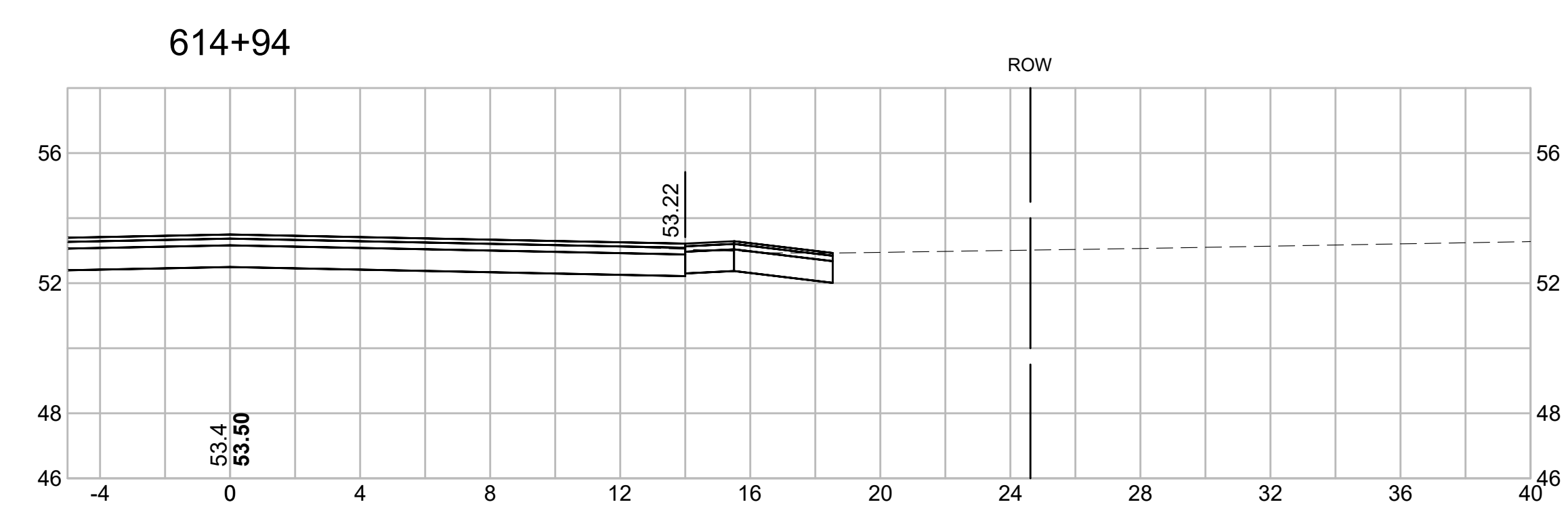
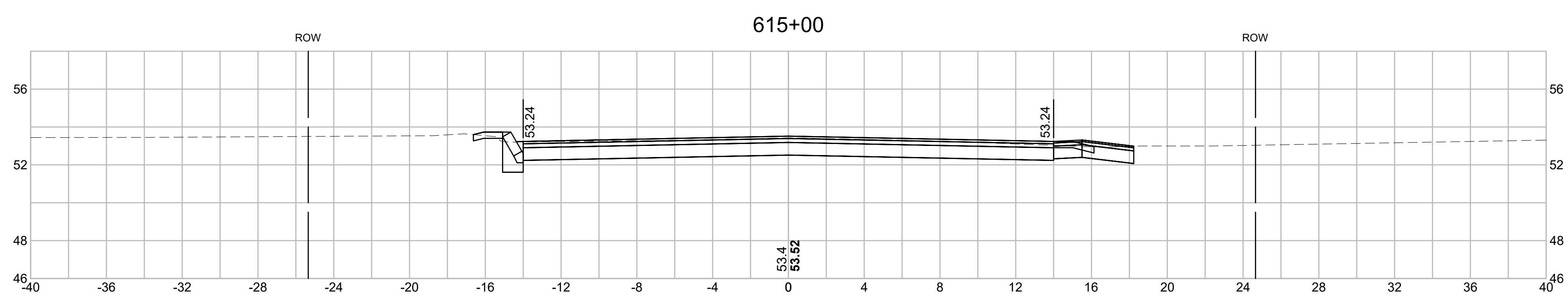
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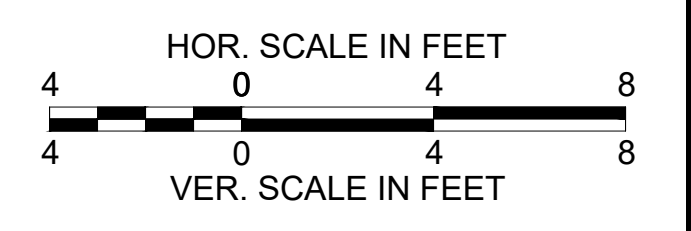
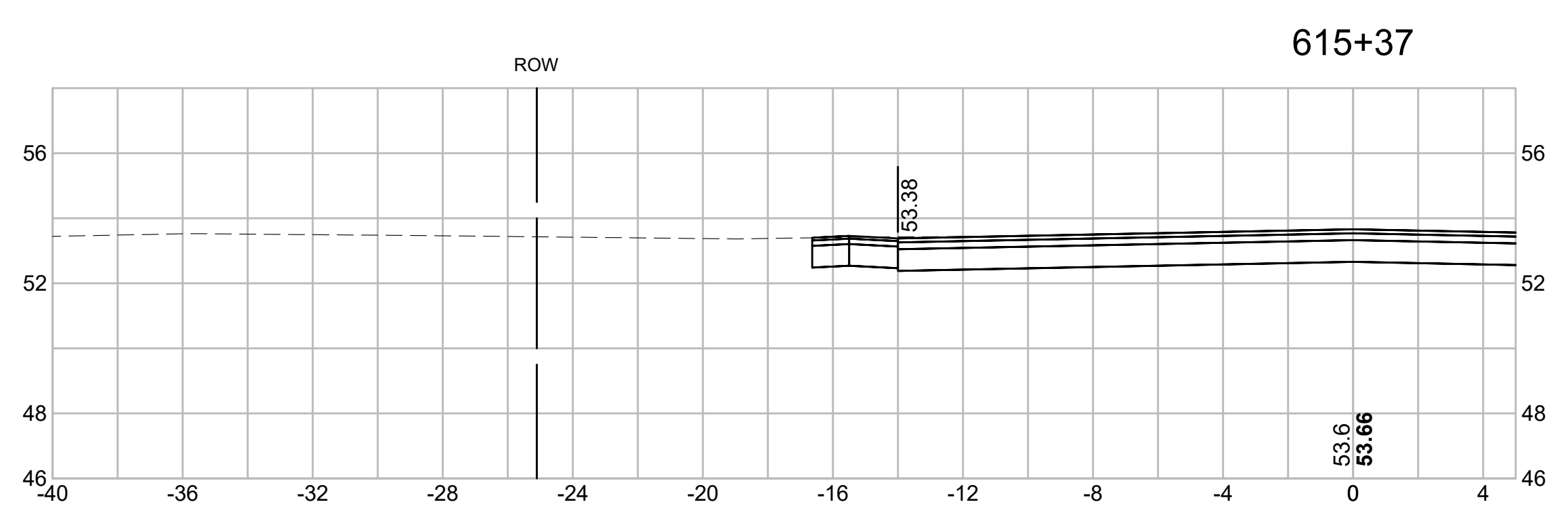
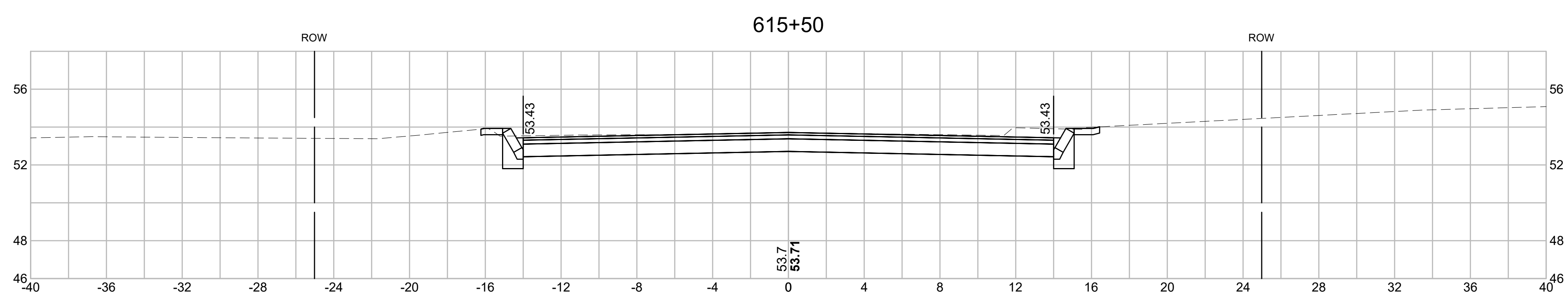
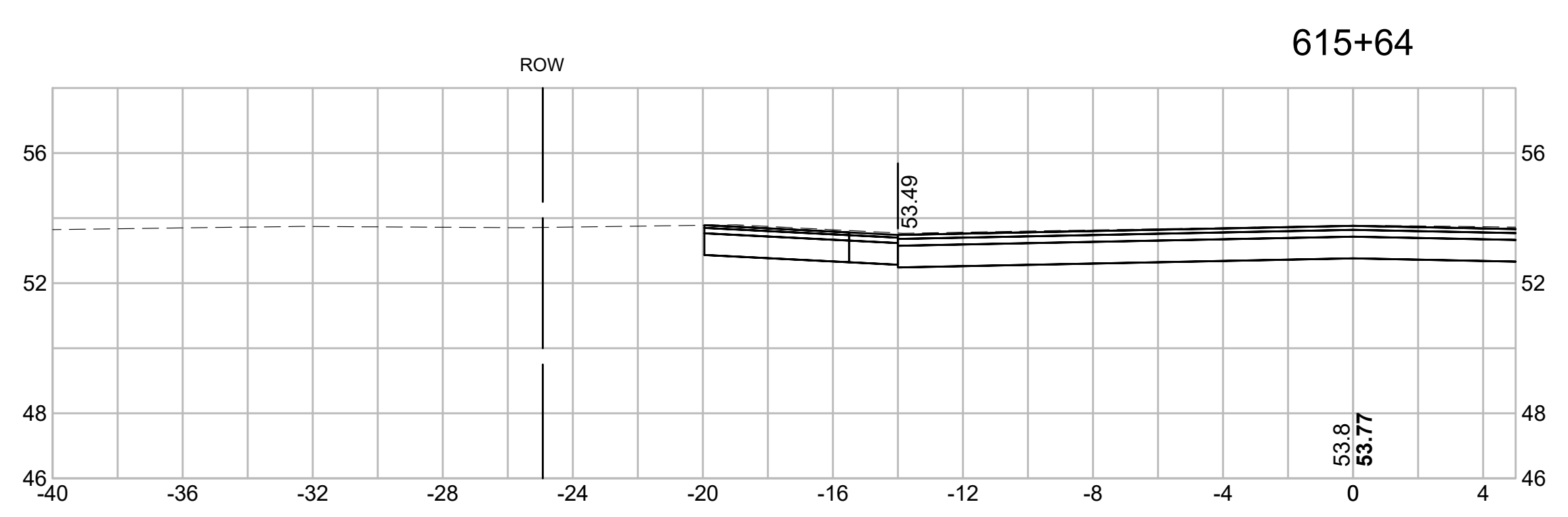
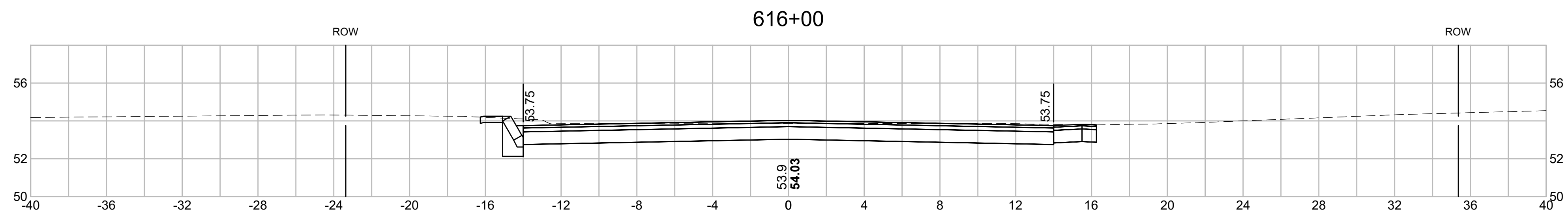
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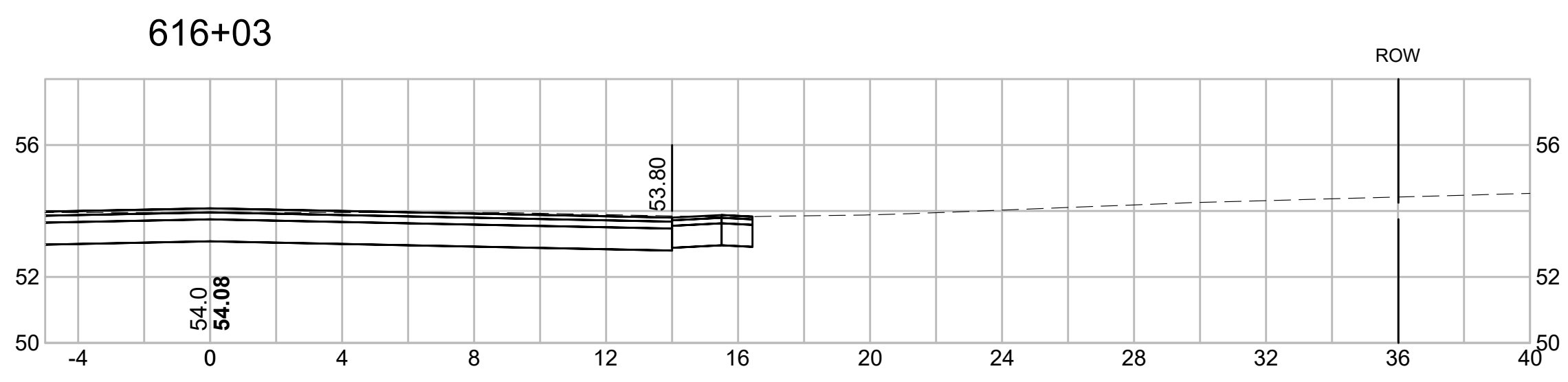
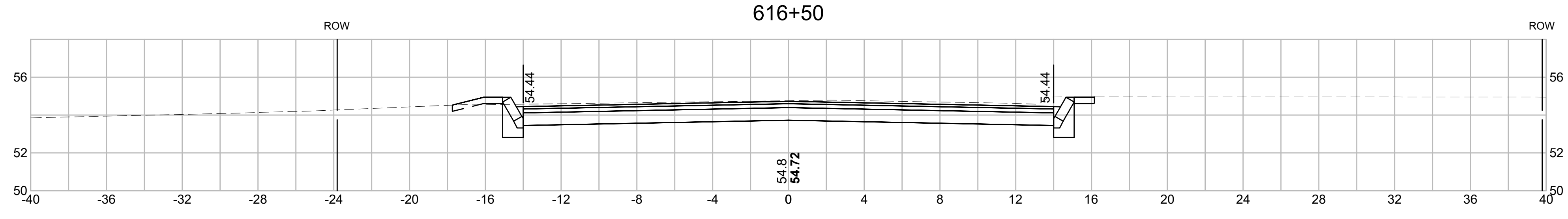
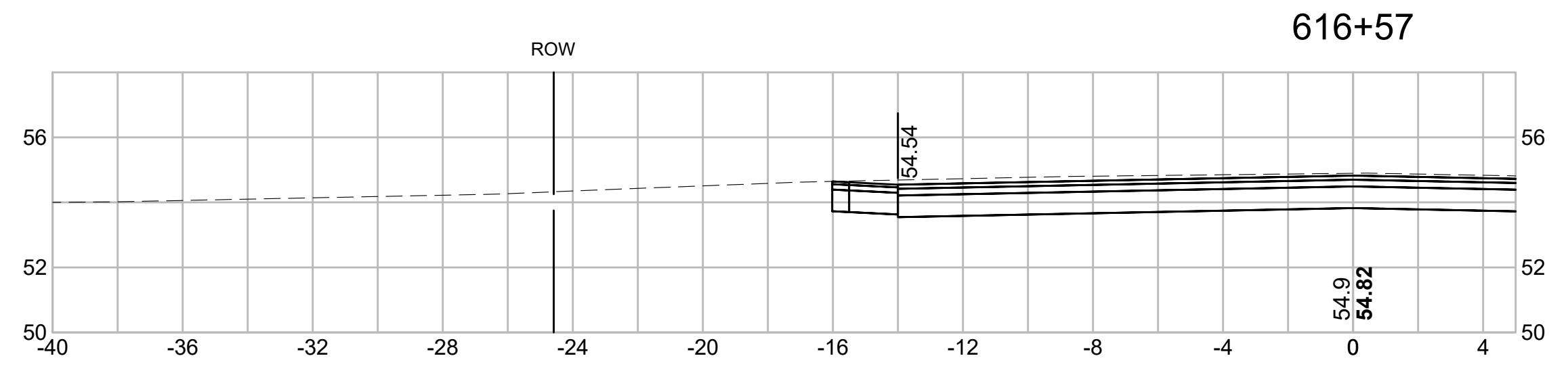
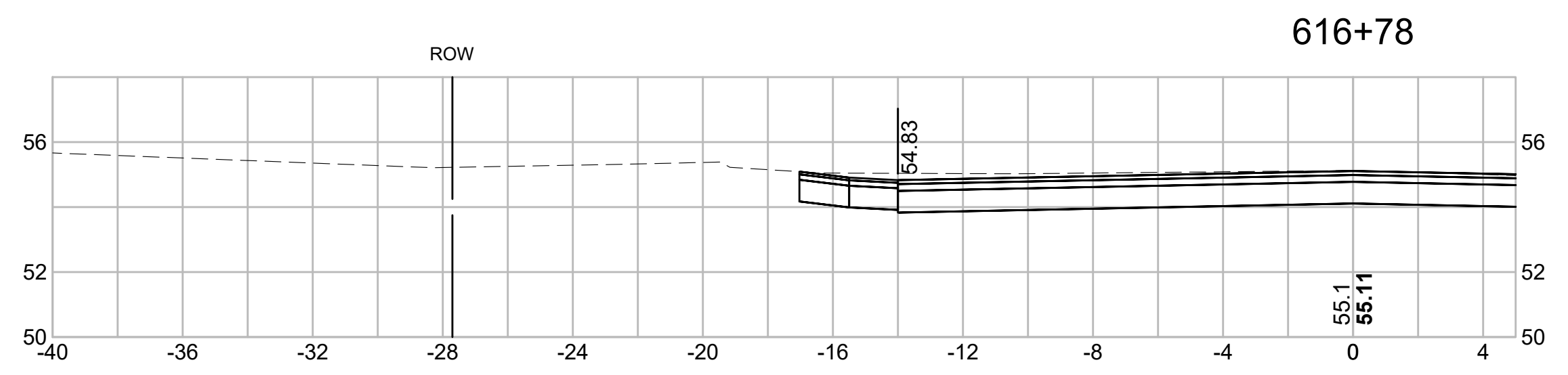
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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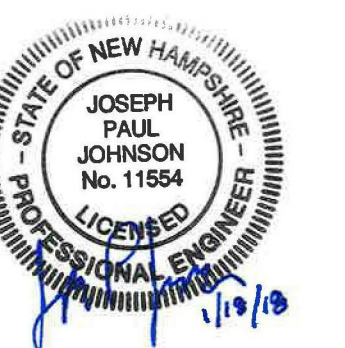
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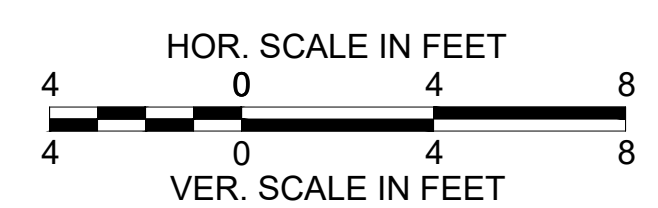
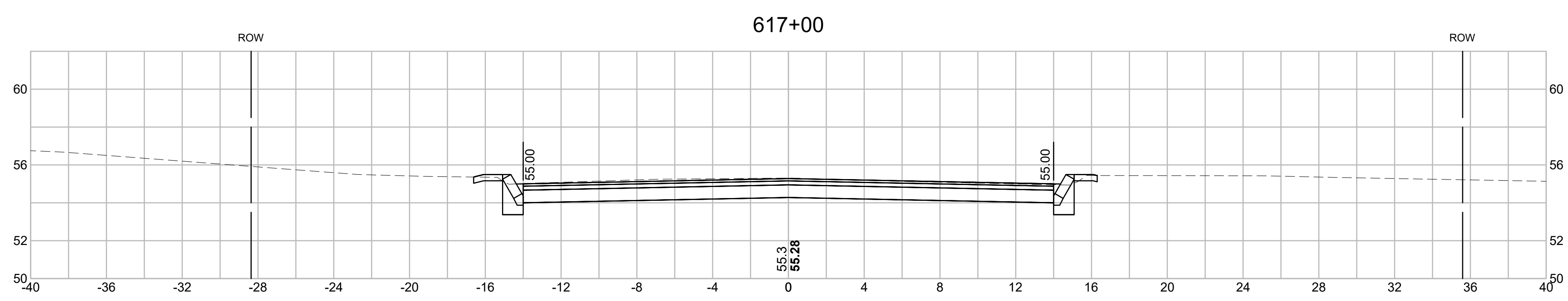
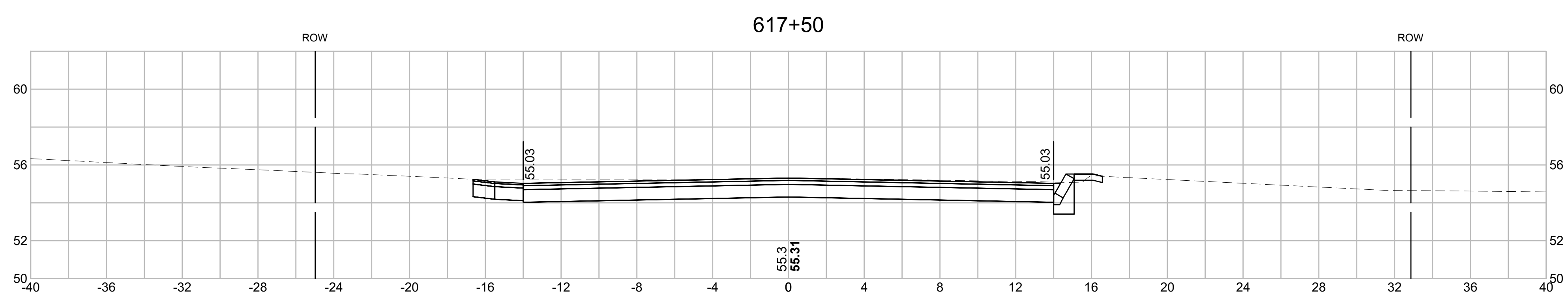
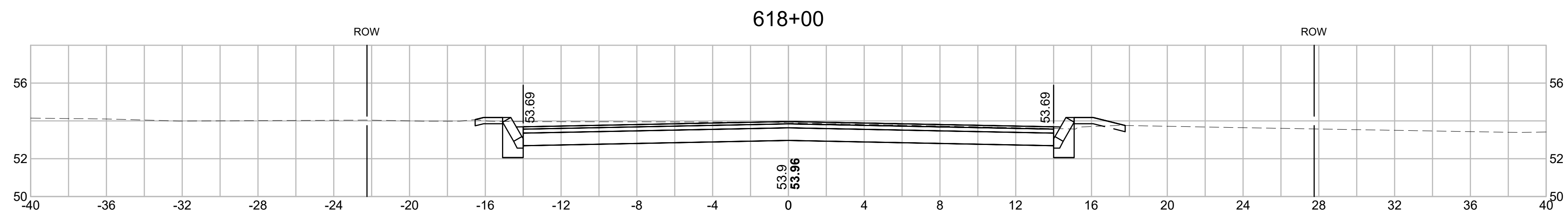
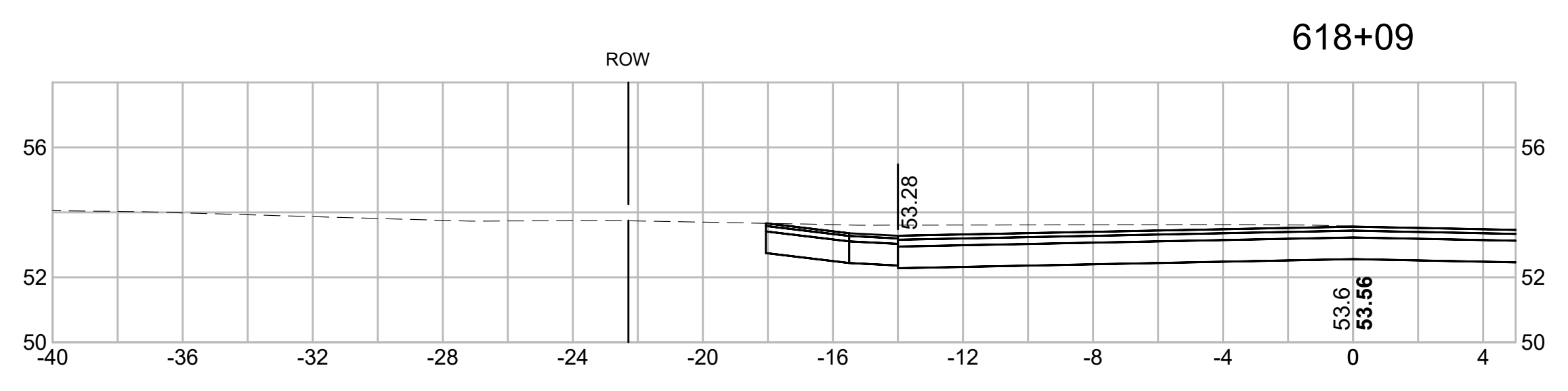
**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

REVISIONS		
NO.	REVISION	DATE

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**IMPROVEMENTS TO MAPLEWOOD
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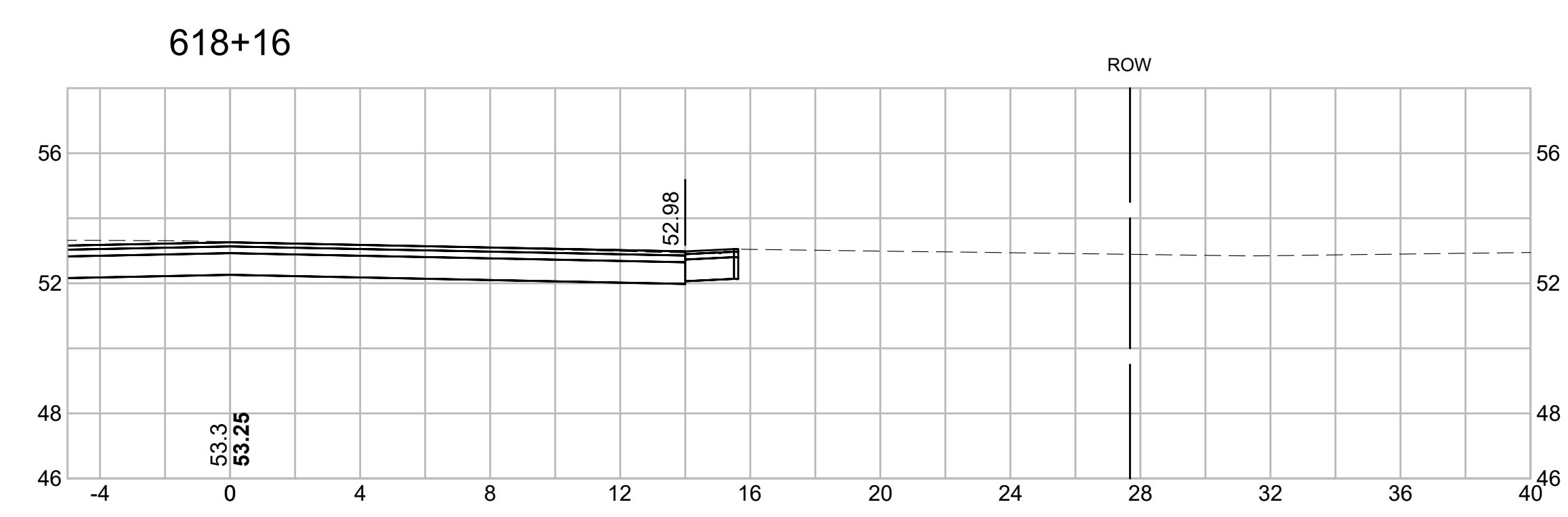
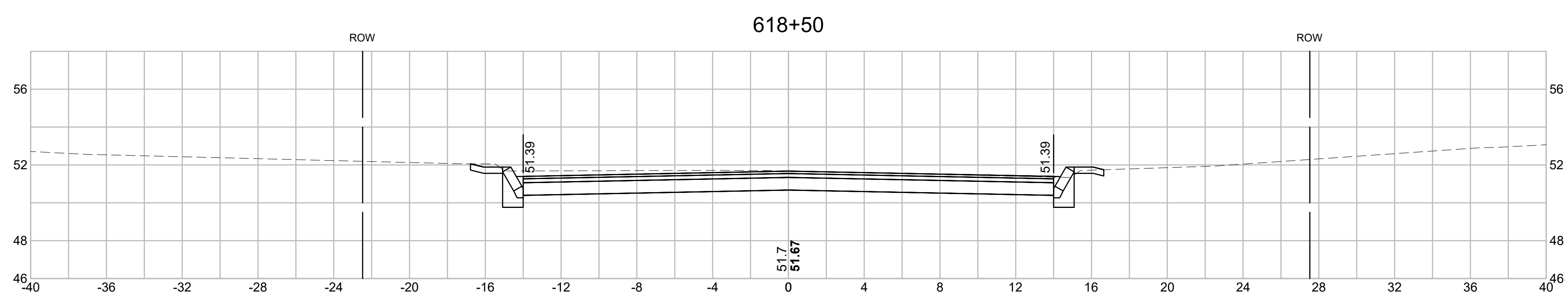
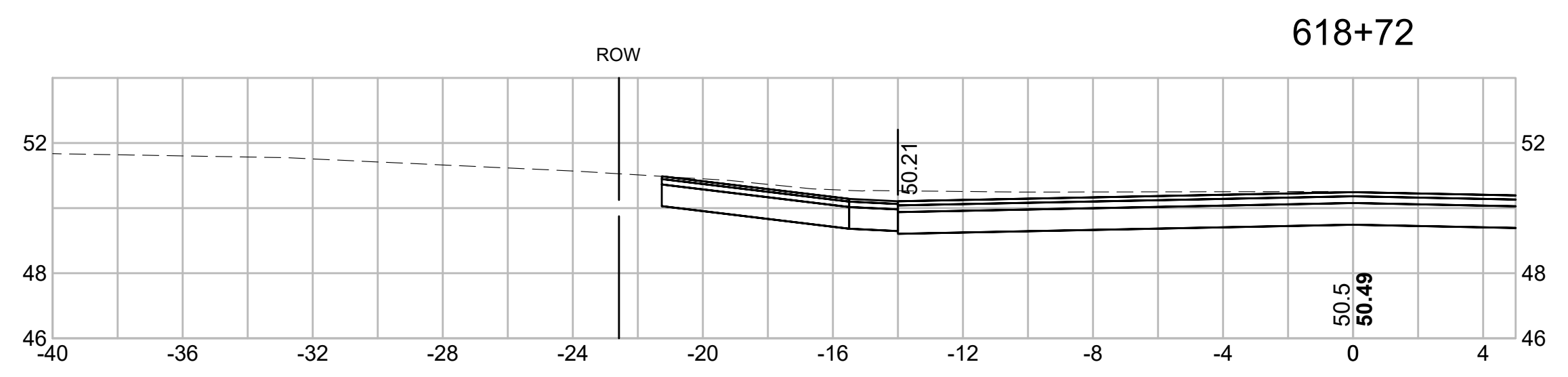
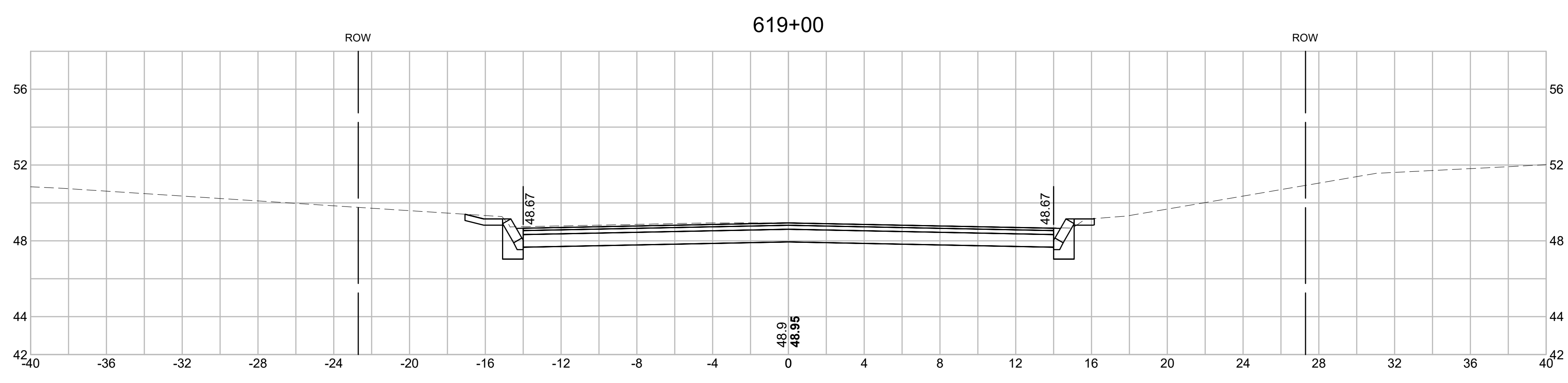
DRAWN/DESIGN BY CLS	CHECKED BY JPJ
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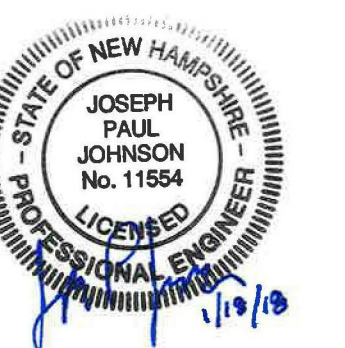
**LESLIE DRIVE
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SCALE: 1"=4'

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**IMPROVEMENTS TO MAPLEWOOD
 AVENUE & ADJACENT AREAS
 MAPLEWOOD AVENUE
 PORTSMOUTH, NH**

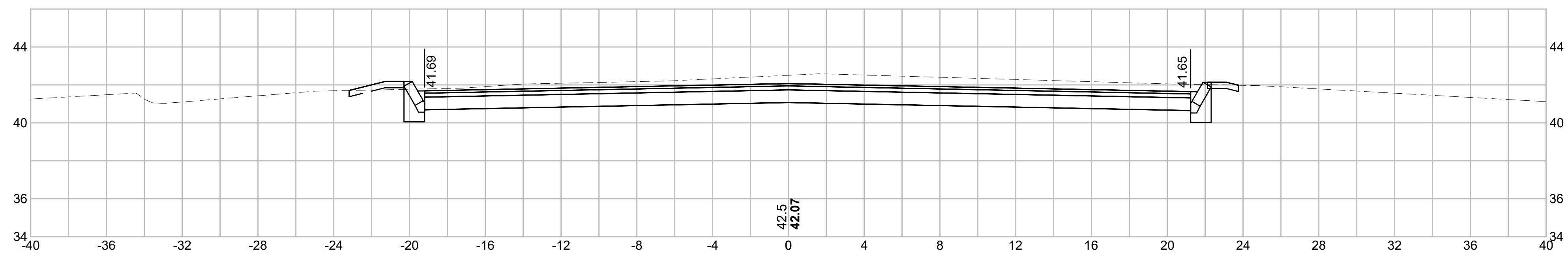
REVISIONS		
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1/18/2018
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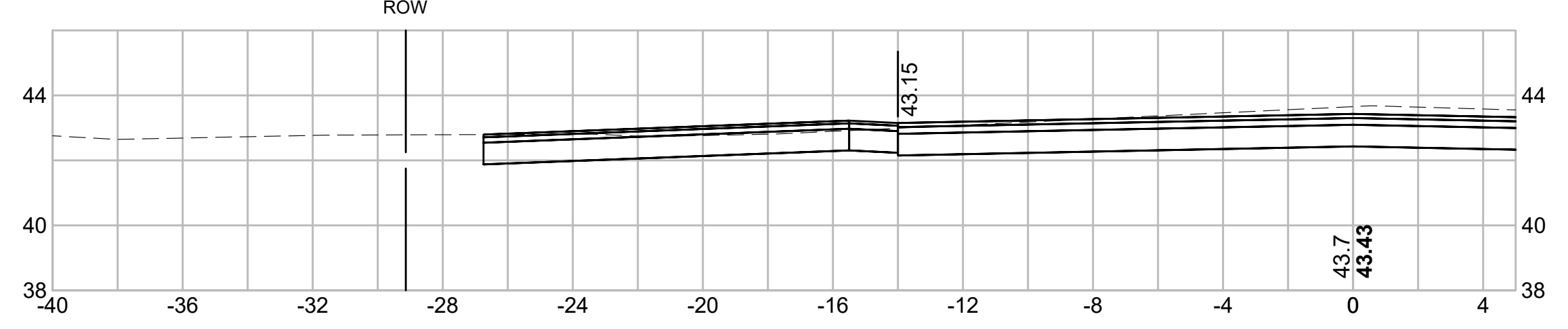
**LESLIE DRIVE
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SCALE: 1"=4'
 2015086.00
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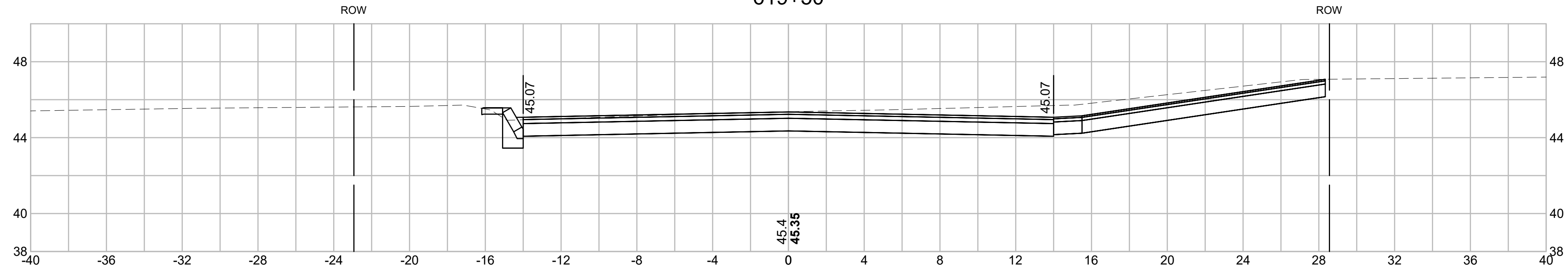
619+95



619+76



619+50



619+45

