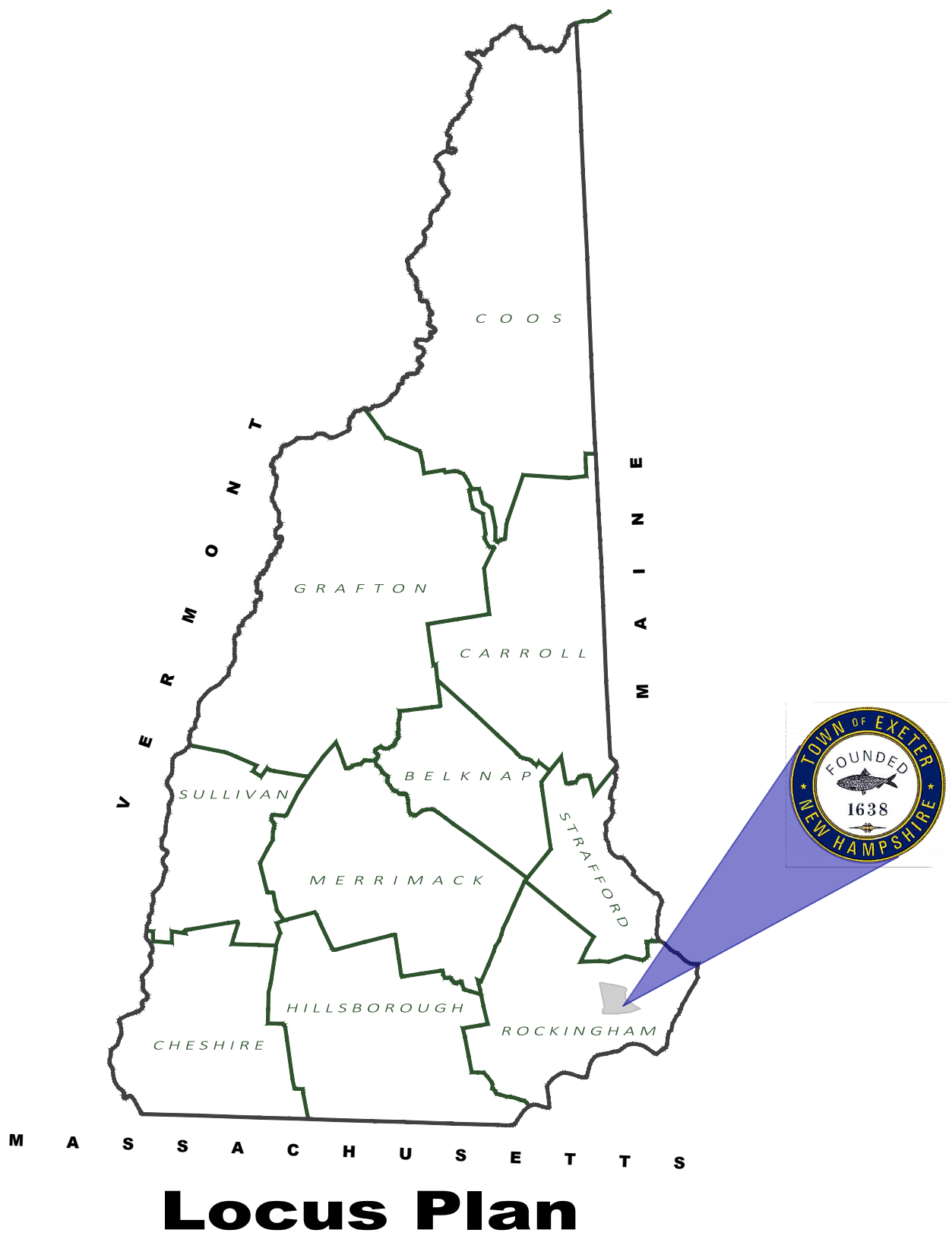


Town Of Exeter, New Hampshire
School Street Area
Utility Improvement Project
Issued for Construction
July 2026

CWSRF Project #CS-330130-22

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Prepared For:
Town of Exeter
Department of Public Works
13 Newfields Road
Exeter, NH 03833

Prepared By:
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cmaengineers.com



Project Locations

General Provisions:

1. The Contractor shall notify Dig-Safe (1-888-DIG-SAFE) at least 72 hours prior to excavation.
2. All work shall conform to the Town of Exeter Construction Standards and Details, the NHDOT Standard Specifications for Road and Bridge Construction (2016 edition, as amended), and all applicable local, state, and federal regulations. Where requirements differ, the more stringent shall apply.
3. The Engineer shall be defined as the Resident Engineer/Owner's Representative, who is responsible for engineering supervision of the construction, acting directly or through duly authorized representatives on behalf of the Town of Exeter.
4. The Contractor shall obtain all required permits, pay associated fees, and post necessary bonds prior to construction.
5. The Contractor shall be solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions, including OSHA compliance. Observation or review by the Owner or Engineer shall not relieve the Contractor of these responsibilities.
6. All work shall comply with the Americans with Disabilities Act (ADA) and the New Hampshire Architectural Barrier-Free Design Code.
7. The contractor shall be responsible for removal and relocation of all signs that conflict with the work. Any signs damaged during construction shall be replaced at no additional cost to the Owner.

Staging, Site Management, and Restoration:

1. The Contractor shall provide staging areas for processing, stockpiling, and storage. Preparation (grubbing, grading, access drives, erosion controls) and restoration shall be at the Contractor's expense. Private property shall not be used without written permission of the property owner.
2. The Contractor shall implement erosion and sedimentation control measures in accordance with NHDES requirements, project permits, and the approved plans. Erosion and sediment control measures (including but not limited to silt fence, inlet protection, stabilized construction entrance, and sediment barriers) shall be installed prior to any clearing, grubbing, demolition, or earth disturbance activities and shall be maintained, repaired, and adjusted as necessary throughout construction.
3. Topsoil shall be stripped and removed for its full depth within the slope limits, stockpiled on site, and reused in the project as directed by the Engineer, unless otherwise specified.
4. Open excavations shall be backfilled at the end of each workday. Trench plates shall not be used to secure excavations overnight or for extended durations. Any exception shall require prior written approval from the Town and shall include temporary pavement restoration as directed.
5. After Completion of Construction, staging areas and temporary facilities shall be restored to preconstruction conditions to the satisfaction of the property owner.
6. Disturbed areas not designated for pavement or landscaping shall receive a minimum 4" loam borrow and seed, graded flush with adjacent features.
7. Dust control shall be provided at all times.
8. Final cleanup shall leave the site in a neat and serviceable condition, to the satisfaction of the Town and Engineer.

Traffic Management and Safety:

3. The Contractor shall submit a Traffic Management and Sequencing Plan showing signage and message boards for Engineer review.
2. Traffic control devices shall conform to MUTCD, NHDOT Sections 618/619, and the NH DOT Traffic Control Handbook.
3. The Contractor shall coordinate with Exeter DPW, Fire, Police, and the Engineer at least 14 days before closures or detours.
4. The Contractor shall maintain at least 14' of travel way unless otherwise approved, to accommodate through traffic and emergency vehicles shall be given priority. Two-way traffic shall be restored at the end of each workday.
5. Driveway and building access shall be maintained at all times; restrictions shall be coordinated with property owners and the Engineer at least 24 hours in advance.
6. All costs for traffic control, signage, and maintenance of travel ways are incidental to the work.
7. The Contractor shall identify, protect, remove as necessary, and maintain all existing traffic signs, regulatory signs, street name signs, pavement markings, and traffic control devices unless removal or relocation is shown on the plans or directed by the Engineer. All such work shall be incidental to the Contract.
8. Existing signs and traffic control devices that are damaged, removed, displaced, or rendered unreadable as a result of construction activities shall be replaced in kind at the Contractor's expense, incidental to the work, as directed by the Engineer or Owner.
9. Existing signs requiring temporary removal for construction shall be removed carefully to prevent damage, stored securely on site, and reinstalled at their original locations unless otherwise directed. Removal, storage, and reinstallation shall be incidental to the work.
10. Temporary replacement of existing regulatory or warning signs shall be provided as required to maintain full compliance with MUTCD requirements during construction. All associated costs shall be incidental to the work.
11. At project completion, all existing signs and traffic control devices shall be reset to proper line, grade, and orientation, and shall be clean, plumb, and fully functional. Resetting shall be incidental to the work.

Roadway, Sidewalk, and Curbing:

1. Pavement edges shall be sawcut to neat lines; transitions shall be milled/tapered as directed.
2. Structures shall be set flush with base pavement and adjusted to 1/4" below final wearing surface prior to overlay.
3. Curbing, frames, covers, and grates designated for salvage shall be delivered to the Town DPW. Other materials removed from project shall become Contractor's property for disposal.
4. Accessible routes, parking spaces, ramps, sidewalks, and walkways shall be constructed in conformance with the Federal Americans with Disabilities Act (ADA) and with state and local laws and regulations, whichever are more stringent.

Drainage:

1. Drainage pipes and structures to be removed within excavation limits shall be incidental to new drainage work.
2. Abandoned structures shall be filled with flowable fill or compacted gravel; cones and tops shall be removed as directed.
3. Drainage structures shall be adjusted to line and grade under resurfacing/reconstruction unless otherwise noted.
4. New drainage installations shall include proper bedding, backfill, and outlet protection (riprap aprons or other energy dissipation).
5. All work shall comply with NHDES Alteration of Terrain permit conditions, if applicable.
6. The Contractor shall control stormwater runoff to prevent impacts to adjacent areas and repair any damage.

Utilities - General Requirements:

1. The Contractor shall verify all utility locations, public and private, prior to construction. Conflicts shall be reported in writing to the Engineer and resolved before proceeding.
2. Utility information shown on the plans is approximate and is not guaranteed as to accuracy or completeness. The Owner does not guarantee that all existing utilities are shown. Additional utilities may exist. Contractor shall verify the location, size, and depth of all utilities prior to construction and shall be responsible for protecting all utilities encountered.
3. The Contractor shall protect all existing utilities to remain in service and repair any damage at no cost to the Owner.
4. Coordination with Utiliti (gas) and all other utility owners (electric, telecommunications, cable) is required prior to excavation.
5. Extreme caution shall be exercised near overhead utilities, especially when operating cranes and tall equipment.
6. The Contractor shall provide as-built drawings in AutoCAD format for all utilities installed under this contract, including water, sewer, and drainage systems and all related structures and appurtenances. Sewer and drainage as-builts shall include X, Y, and Z coordinates for all structures, including rim and invert elevations, tied to project control and datum.
7. Contractor shall obtain swing ties and photographs for all property services (water, sewer, and drain) and all newly installed utility structures prior to backfill. Swing ties shall be sufficient to prepare Owner/Town standard swing tie sheets. All electronic files and data shall be submitted in a format acceptable to the Owner.

Water System:

1. All water mains shall be Class 52 cement-lined ductile iron pipe (DI CL52) with push-on joints, meeting AWWA C151. All fittings, valves, and valve boxes shall be ductile iron.
2. All materials in contact with potable water shall be certified to ANSI/NSF 61.
3. Water mains and services shall have a minimum cover of 5'. Where cover is less, rigid insulation shall be installed per trench detail. Where within 4' of a structure, 2" insulation shall extend 10' horizontally in both directions.
4. Maintain 10' horizontal and 18" vertical separation from sewers, with water above. Constructing water and sewer with less than these separations requires NHDES waiver, pursued through the engineer of record. Notify the engineer prior to construction of any such deviations from these separation requirements.
5. Water service connections shall include corporations, curb stops, curb boxes, and 1" polyethylene with tracer wire unless otherwise noted. Services shall connect beyond the curb stop unless the existing service is galvanized, lead, or unsuitable; in such cases, notify the Engineer.
6. Fire service connections shall be a minimum of 6" DI CL52 or equal to the existing size.
7. Hydrants, valves, and appurtenances shall conform to Town-approved models. Hydrant locations require Engineer/Town approval. Non-functional hydrants shall be bagged. Existing hydrants to be removed shall be decommissioned below grade and delivered to the Water & Sewer Department or disposed of as directed.
8. Valves, hydrants, and fittings shall have restraint systems (restrained joints, Megalugs, thrust blocks). Gate valves shall open left.
9. Existing water pipe to be abandoned shall be capped at exposed ends and left in place unless removal is required. Tees and gates shall be left open, box sections removed, and bases filled with concrete.
10. The Contractor shall maintain continuous water service. If outages exceed 4 hours, temporary potable water service shall be provided at no additional cost.
11. Disinfection and pressure testing shall be in accordance with Town and AWWA standards.

Temporary Water:

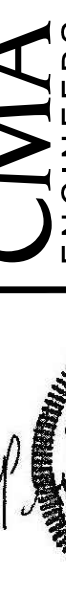
1. Temporary water systems shall be submitted for review prior to installation.
2. The Contractor shall disinfect temporary connections prior to use, maintain the system, provide 24-hour emergency repair service, and keep systems free of leaks.
3. Static pressure shall be maintained at **≥40** psi; residual pressure shall remain >20 psi.
4. Backflow prevention devices are required when connected to hydrants.
5. Temporary systems shall not disrupt traffic and shall be decommissioned prior to freezing weather, with 48-hour notice to the Owner and residents.
6. Upon completion, the Contractor shall dismantle temporary water, and reconnect all shut offs and hose bibbs to each home according to pre-construction conditions.

Sanitary Sewer:

1. Sewer mains shall be SDR 35 PVC per ASTM D3034 unless otherwise specified. Where separation from water mains is inadequate, use C900 PVC from manhole to manhole.
2. Joints shall meet ASTM D3212 with oil-resistant rubber or elastomeric seals. Certificates of compliance shall be submitted.
3. Pipe lengths on plans are measured between manhole walls. Manhole rims shall be set 1/4" below pavement grade.
4. Crossings with water mains shall meet the separation requirements in "Water System" notes, number 4.
5. Spigot ends shall be laid downstream; bells shall not be located in structures.
6. Sewer service laterals shall be 6" SDR 35 PVC, installed at minimum slope of 1%, maximum 10%, with no more than two bends or 180° total deviation without a Town variance. Service laterals shall not connect directly to manholes unless specifically shown.
7. Service locations shall be confirmed by test pits, video inspection, and consultation with property owners and the Engineer. Approximate locations shown on plans (based on CCTV logs) shall be field-verified.
8. Some services may be connected to parallel mains; Contractor shall ensure reconnection to proposed main.
9. Cover shall be 4' minimum at the building and 6' in paved areas; insulation required if less.
10. Yard, foundation, or roof drains shall not be connected to the sewer. Suspect drains shall be reported to the Engineer.
11. Abandoned sewers shall be removed where encountered. VC pipe not removed shall be filled with flowable fill. Other exposed ends shall be cut and plugged.
12. Sewer manholes not removed shall be abandoned by removing castings, demolishing chimney sections to 4' below grade, backfilling with sand/flowable fill, and plugging adjacent pipes 2' from the manhole.
13. New sewers shall be tested by low-pressure air, mandrel deflection, and manhole vacuum testing.

Boring Notes:

1. Borings indicated thus ~~4~~ were made by S.W. Cole Engineering, Inc. in May 2025. Blow counts shown are the number of blows required to drive a 2" O.D. standard split spoon sampler 6" using a 140 lb weight falling 30" or a 300 lb weight falling 16".
2. Borings are for design purposes showing conditions at boring points only, and do not necessarily indicate material to be encountered during construction.
3. Water levels indicate thus ~~W~~ were measured at the time of exploration. The water levels encountered during construction may vary considerably due to prevailing climate, rainfall, or other factors.
4. The Geotechnical investigation report has been prepared by S.W. Cole Engineering, Inc., and is provided in the contract documents.

Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Notes	date: July 2026	designed by: CFC/WAB	 7/2/2026	CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/541-4223	1 Issued for Construction 7/2/26 PAC
	project no: 1350	drawn by: FDG/CLM			
	checked by: PAC	approved by: PAC			
	scale:				
	drawing no. N-1				
sheet: 2 of 49	no. revision date by				

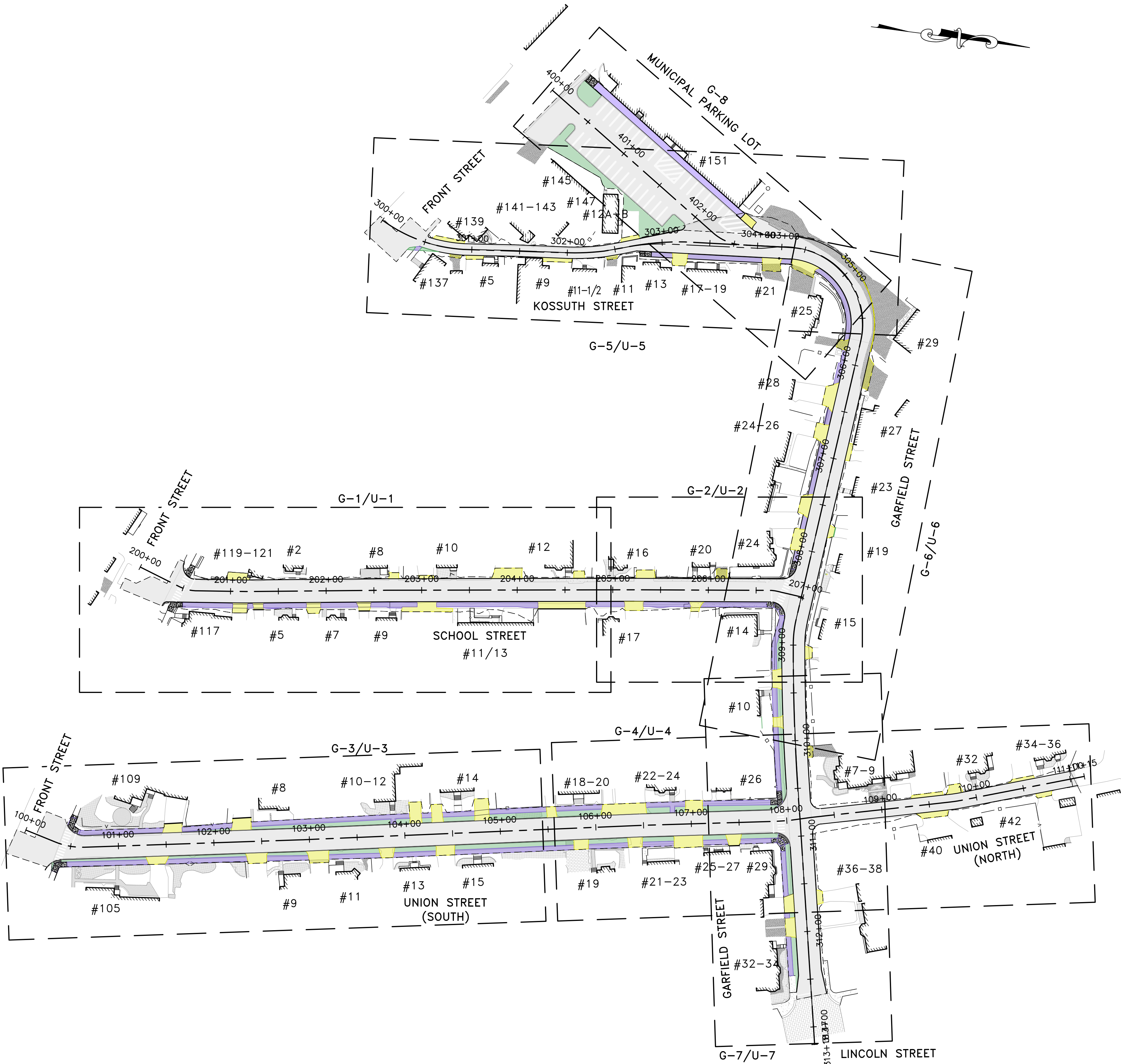
PROPOSED LEGEND – G & U SHEETS

EXISTING

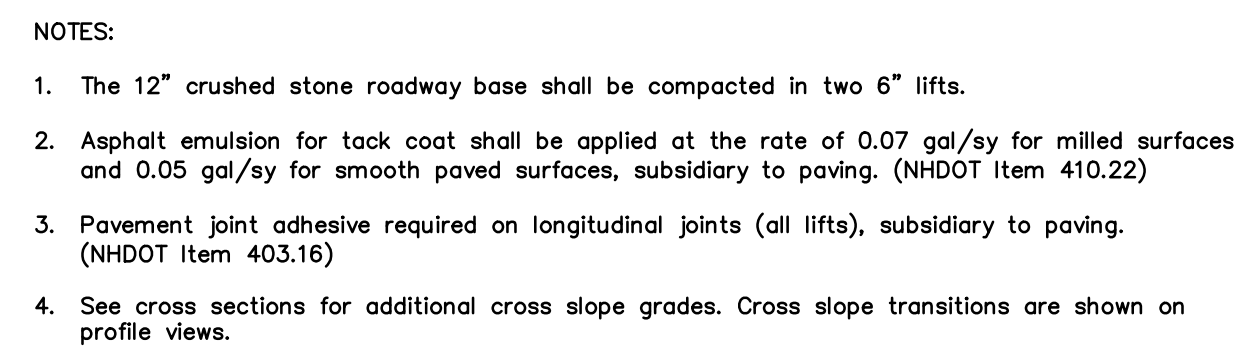
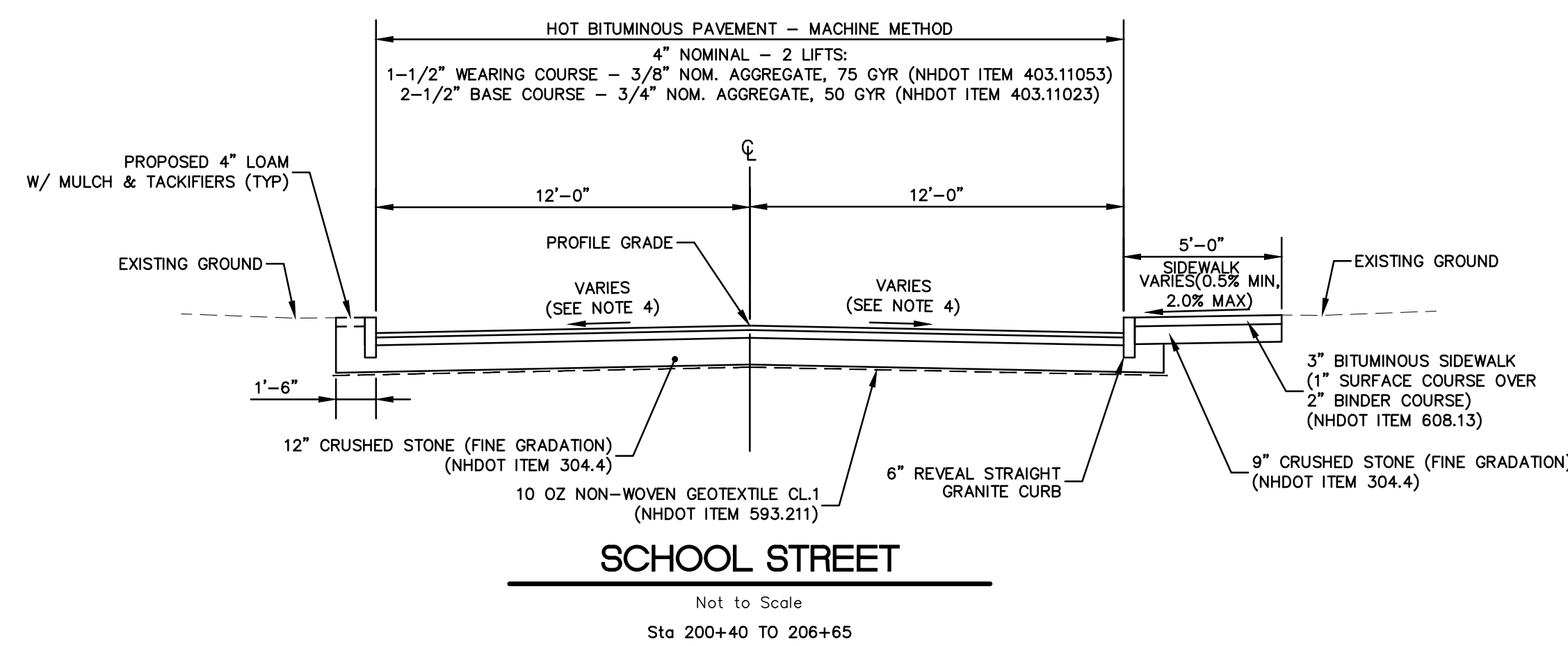
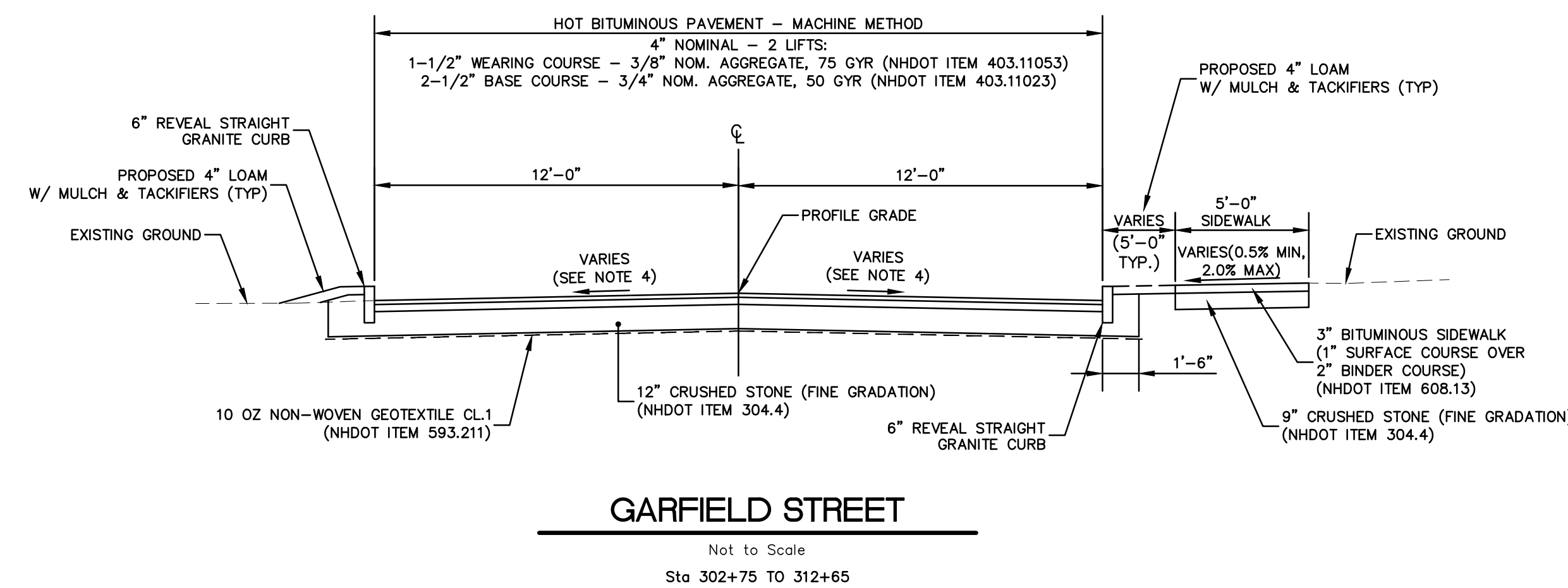
- RIGHT-OF-WAY LINE
- ABUTTERS LOT LINE
- STONE WALL
- STONE RETAINING WALL
- CHAIN LINK FENCE
- STOCKADE FENCE
- PICKET FENCE
- POST & RAIL FENCE
- METAL & WIRE FENCE
- HANDRAIL
- OVERHEAD WIRE
- DRAIN LINE
- SEWER LINE
- APPROXIMATE GAS LINE (GIS)
- APPROXIMATE WATER LINE
- TREE LINE
- SHRUB LINE
- CONCRETE
- LANDSCAPED AREA
- CRUSHED STONE
- BRICK
- PILE
- BENCH
- SPOT GRADE
- SURVEY CONTROL POINT
- PIPE/ROD FOUND
- FENCE POST
- UTILITY POLE
- UTILITY POLE & GUY WIRE
- UTILITY POLE W/LIGHT
- LIGHT POST
- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- FIRE HYDRANT
- WATER GATE VALVE
- WATER SHUTOFF VALVE
- FAUCET
- GAS GATE VALVE
- GAS METER
- GAS REGULATOR VALVE
- ELECTRIC METER
- OG
- EM
- SIGN
- SIGN (TWO POSTS)
- SQUARE POST
- WOODEN POST
- POST
- BOLLARD
- ROCK/BOULDER
- MAIL BOX
- CONIFEROUS TREE 10" DIA. OR GREATER
- CONIFEROUS TREE LESS THAN 10" DIA.
- DECIDUOUS TREE 10" DIA. OR GREATER
- DECIDUOUS TREE LESS THAN 10" DIA.
- CONIFEROUS SHRUB
- DECIDUOUS BUSH
- TREE STUMP

PROPOSED

- EDGE OF PAVEMENT
- SIGN
- DI WATER GATE VALVE (SIZE LABELED)
- CURB STOP
- FIRE HYDRANT
- CATCH BASIN
- DRAIN MANHOLE
- SEWER MANHOLE
- 4" CLDI WATER MAIN
- 6" CLDI WATER MAIN
- 1" COPPER WATER SERVICE
- 8" PVC SEWER MAIN
- 6" PVC SEWER SERVICE
- HDPE DRAIN PIPE
- PERFORATED HDPE DRAIN PIPE
- PRIVATE DRAIN CONNECTION
- SLOPE LINE
- TRENCH PATCH MILL AND OVERLAY
- ROAD RECONSTRUCTION
- ASPHALT SIDEWALK
- CONCRETE SIDEWALK
- GRASS PANEL
- DRIVEWAY



CMA ENGINEERS Civil/Environmental/Structural		Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223		c m a e n g i n e e r s . c o m	
designed by: CFCWAB		drawn by: FDG/CLM		approved by: PAC	
date: July 2026		project no: 1350		checked by: PAC	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Sheet Index & Legend	
drawing no: N-3		sheet: 3 of 49		revision: 1 no. 1 date: 7/2/26 by: PAC	



 APPARENT RIGHT-OF-WAY LINE
 (SEE NOTE 10)
 APPROXIMATE ABUTTERS LOT LINE
 (PER PLAN REF 1)
 STONE WALL
 STONE RETAINING WALL
 CHAIN LINK FENCE
 STOCKADE FENCE
 PICKET FENCE
 POST & RAIL FENCE
 METAL & WIRE FENCE
 HANDRAIL
 OVERHEAD WIRE
 DRAIN LINE
 SEWER LINE
 APPROXIMATE GAS LINE (GIS)
 APPROXIMATE WATER LINE
 TREE LINE
 SHRUB LINE
 CONCRETE
 LANDSCAPED AREA
 CRUSHED STONE
 BRICK
 PILE

- | | |
|--|-------------------------------------|
| | BENCH |
| | SPOT GRADE |
| | SURVEY CONTROL POINT |
| | PIPE/BOD |
| | FENCE POST |
| | UTILITY POLE |
| | UTILITY POLE & GUY WIRE |
| | UTILITY POLE W/LIGHT |
| | LIGHT POST |
| | DRAIN MANHOLE |
| | CATCH BASIN |
| | SEWER MANHOLE |
| | FIRE HYDRANT |
| | WATER GATE VALVE |
| | WATER SHUTOFF VALVE
FAUCET |
| | GAS GATE VALVE |
| | GAS METER |
| | GAS REGULATOR VALVE |
| | ELECTRIC METER |
| | SIGN |
| | SQUARE (TWO POSTS) |
| | SQUARE POST |
| | WOODEN POST |
| | POST |
| | BOLLARD |
| | ROCK/BOULDER |
| | MAIL BOX |
| | ACCESSIBLE PARKING SPACE |
| | CONIFEROUS TREE 10" DIA. OR GREATER |
| | CONIFEROUS TREE LESS THAN 10" DIA. |
| | DECIDUOUS TREE 10" DIA. OR GREATER |
| | DECIDUOUS TREE LESS THAN 10" DIA. |
| | CONIFEROUS SHRUB |
| | DECIDUOUS BUSH |
| | TREE STUMP |

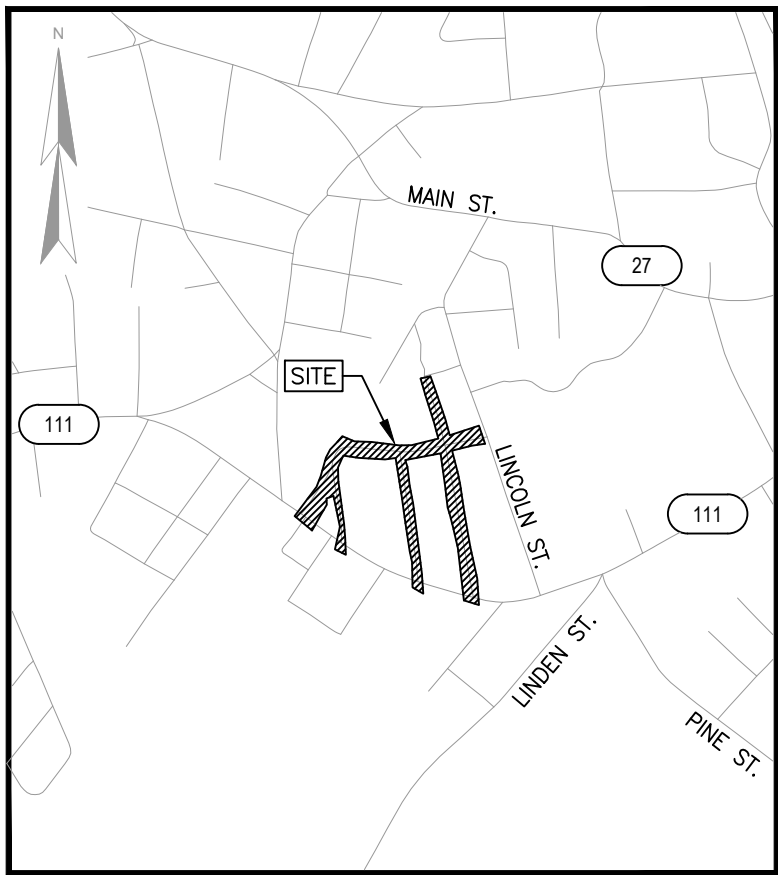
1. REFERENCE: SCHOOL STREET NEIGHBORHOOD
SCHOOL ST., GARFIELD ST., UNION ST., & KOSSUTH ST.
EXETER, NEW HAMPSHIRE
2. FIELD SURVEY PERFORMED BY D.J.B. & H.J.R. (DOUCET SURVEY) DURING DECEMBER 2024 & JANUARY 2025 USING A TOTAL STATION AND A SURVEY GRADE GPS WITH A DATA COLLECTOR AND A DIGITAL LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
3. HORIZONTAL DATUM BASED ON NAD83(2011) NEW HAMPSHIRE STATE PLANE COORDINATE ZONE (2800) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
4. VERTICAL DATUM IS BASED ON NAVD88 PER A CONVERSION FROM NGVD29 TO NAVD88 FROM PREVIOUS DCMT SURVEY PROJECT NUMBER 4188. THE DATUM WAS CONVERTED USING A DELTA OF -0.77' PER NHDOT DISK B-14-1934 DATASHEET (NGVD29 ELEV.=37.67' / NAVD88 ELEV.=36.90').
6. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
7. THIS SURVEY WAS PERFORMED IN WINTER CONDITIONS WITH SNOW COVER ON THE GROUND. A SITE CHECK IS RECOMMENDED IN THE SPRING IN ORDER TO ENSURE THE COMPLETENESS/ACCURACY OF THE INFORMATION SHOWN HEREON.
8. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON-SITE.
9. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES/TYPES IS SUBJECT TO NUMEROUS FIELD CONDITIONS, INCLUDING; THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS, MANHOLE CONFIGURATION, ETC.
10. DUE TO THE COMPLEXITY OF RESEARCHING ROAD RECORDS AS A RESULT OF INCOMPLETE, UNORGANIZED, INCONCLUSIVE, OBLITERATED, OR LOST DOCUMENTS, THERE IS AN INHERENT UNCERTAINTY INVOLVED WHEN ATTEMPTING TO DETERMINE THE LOCATION AND WIDTH OF A ROADWAY RIGHT OF WAY. THE EXTENT OF SCHOOL STREET, GARFIELD STREET, UNION STREET, AND KOSSUTH STREET ARE EXPECTED HEREON TO BE BASED ON LIMITED RESEARCH CONDUCTED AT THE KINGHAM COUNTY REGISTER OF DEEDS, EXETER TOWN HALL & TOWN OF EXETER DEPARTMENT OF PUBLIC WORKS.
- 10.A. THE APPARENT RIGHT-OF-WAY OF KOSSUTH STREET AS DEPICTED HEREON IS BASED ON TIES TO REFERENCE PLAIN 1 WHICH SHOWS A WIDTH OF 11'. A DEFINITIVE RETURN OF LAYOUT WAS NOT FOUND.
- 10.B. THE APPARENT RIGHT-OF-WAY OF UNION STREET a/k/a GARFIELD COURT AS DEPICTED HEREON IS BASED ON TIES TO REFERENCE PLAIN 2 WHICH SHOWS A WIDTH OF 23'. A DEFINITIVE RETURN OF LAYOUT WAS NOT FOUND.
- 10.C. THE APPARENT RIGHT-OF-WAY OF GARFIELD STREET, SCHOOL STREET, AND UNION STREET AS DEPICTED HEREON ARE BASED ON TIES TO REFERENCE PLAINS AND FIELD EVIDENCE. A DEFINITIVE RETURN OF LAYOUT WAS NOT FOUND.
11. ALL UNDERGROUND UTILITIES (ELECTRIC, GAS, TEL. WATER, SEWER DRAIN SERVICES) ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

DMH 1009	CB 3108	CB 3947	CB 5018
RIM ELEV.=49.0'	RIM ELEV.=50.0'	RIM ELEV.=55.9'	RIM ELEV.=53.3'
(1178) 12" RCP INV.=41.3'	(2700) 12" RCP INV.=44.4'	(3914) 12" RCP INV.=52.9'	WATER ELEV.=49.9'
(A) 12" RCP INV.=41.1'	(3244) 12" RCP INV.=44.3'	(A)* 12" RCP INV.=52.8'	SUMP ELEV.=46.7'
		*SOUND CHECKS TO 4152	(6107) 12" RCP INV.=49.9'
CB 1031	CB 3244	CB 4152*	DMH 5086
RIM ELEV.=49.9'	RIM ELEV.=49.9'	RIM ELEV.=56.2'	RIM ELEV.=51.8'
SUMP ELEV.=43.0'	(3268) 12" PVC INV.=45.8'	(3677)/(3890)/(5234)**	(4970) 15" RCP INV.=47.0'
(1178) 12" PVC INV.=44.6'	(3108) 12" RCP INV.=44.2'	*LID FROZEN SHUT	(3530) 15" RCP INV.=46.8'
	(3515) 12" RCP INV.=44.0'	**SOUND CHECK CONFIRMED	
CB 1178	CB 3268	DMH 4340	CB 5090
RIM ELEV.=49.6'	RIM ELEV.=50.2'	RIM ELEV.=56.0'	RIM ELEV.=54.2'
(1425) 12" RCP INV.=45.2'	WATER ELEV.=46.6'	DEBRIS ELEV.=48.9'	(A) 15" RCP INV.=49.0'
(1031) 12" PVC INV.=42.1'	SUMP ELEV.=43.1'	(A) DIP TOP.=49.5'	(6107) 15" RCP INV.=48.9'
(1009) 12" RCP INV.=42.0'	(3244) 12" PVC INV.=47.1'	(B) 6" DIP INV.=49.2'	
CB 1386	DMH 3515	CB 4368	CB 5121
RIM ELEV.=54.2'	RIM ELEV.=50.2'	RIM ELEV.=55.2'	RIM ELEV.=58.8'
SUMP ELEV.=47.2'	(3530) 15" PVC INV.=45.7'	WATER ELEV.=50.8'	WATER ELEV.=55.8'
(1425) 12" RCP INV.=50.4'	(3244) 12" RCP INV.=43.8'	SUMP ELEV.=47.9'	SUMP ELEV.=52.0'
	(6104) 24" RCP INV.=43.7'	(A)* 12" RCP INV.=51.0'	(5234) 12" RCP INV.=55.9'
CB 1425	DMH 3521*	*SOUND CHECKS TO 4549	CBR 5132*
RIM ELEV.=53.9'	RIM ELEV.=50.3'	CB 4549	RIM ELEV.=59.1'
(1386) 12" RCP INV.=48.3'	(A) 12" UNK INV.=44.0'	RIM ELEV.=55.3'	DEBRIS ELEV.=54.6'
(1178) 12" RCP INV.=48.2'	(B) 12" RCP INV.=43.9'	WATER ELEV.=49.7'	*NPV
(3890) 12" RCP INV.=48.2'	*SEWER COVER	SUMP ELEV.=47.7'	
CB 2195	CB 3530	(4854) 12" RCP INV.=49.9'	CB 5234
RIM ELEV.=51.4'	RIM ELEV.=50.5'	CB 4839	RIM ELEV.=58.9'
WATER ELEV.=47.7'	(5086) 15" RCP INV.=45.9'	RIM ELEV.=53.1'	(5121) 12" RCP INV.=54.9'
SUMP ELEV.=44.5'	(3515) 15" PVC INV.=45.8'	(4854) 12" PVC INV.=48.6'	(4152) 12" RCP INV.=53.6'
(2435) 12" PVC INV.=47.8'	CB 3677	(4970) 12" RCP INV.=48.3'	CB 6065
	RIM ELEV.=56.5'	CB 4854	RIM ELEV.=58.1'
CB 2435	SUMP ELEV.=50.0'	RIM ELEV.=53.3'	SUMP ELEV.=50.7'
RIM ELEV.=51.1'	(4152) 12" RCP INV.=53.5'	(4549) 12" RCP INV.=48.9'	(A) 12" PVC INV.=51.4'
(2195) 12" PVC INV.=46.3'	DMH 3890	(4839) 12" PVC INV.=48.6'	CB 6104
(2700) 12" RCP INV.=45.8'	RIM ELEV.=55.7'	CB 4969	RIM ELEV.=49.2'
CB 2700	(4152) 12" RCP INV.=51.9'	RIM ELEV.=53.5'	(3515) 24" RCP INV.=43.7'
RIM ELEV.=49.6'	(1425) 12" RCP INV.=51.8'	WATER ELEV.=49.1'	(A) 24" RCP INV.=43.6'
(2435) 12" RCP INV.=45.2'		SUMP ELEV.=45.7'	
(3108) 12" RCP INV.=44.8'	CB 3914	(4970) 12" PVC INV.=49.1'	DMH 6107
(2710) UNK - TOO RECESSED	RIM ELEV.=55.6'		RIM ELEV.=53.6'
	WATER ELEV.=52.9'		(5018) 12" RCP INV.=49.0'
CB 2710	SUMP ELEV.=49.3'		(5090) 15" RCP INV.=48.3'
RIM ELEV.=49.7'	(3947) 12" RCP INV.=52.9'	DMH 4970	(4970) 15" RCP INV.=48.1'
WATER ELEV.=46.5'		RIM ELEV.=53.3'	
SUMP ELEV.=43.4'			CB 6111
(2700) 8" PVC INV.=46.5'			

1. "PLAN OF LAND EXETER, NEW HAMPSHIRE BOSTON AND MAINE RAILROAD TO TOWN OF EXETER, N.H.," DATED JANUARY 1961 BY GORDON E. AINSWORTH R.C.R.D. PLAN 212.
2. "PLAN OF LAND OWNER BY EXETER HANDKERCHIEF COMPANY, SITUATED AT NO.8 GARFIELD COURT, EXETER, NEW HAMPSHIRE," DATED OCTOBER 13, 1961 BY RAYMOND O. HOBBS R.C.R.D. PLAN 1608-041.
3. "PLAN OF SUB-DIVISION ROBERT F. DAVIS FRONT STREET EXETER, NEW HAMPSHIRE" DATED JULY 1978 BY K.E. MOORE & B.G. STAPLES LAND SURVEYORS R.C.R.D. PLAN 8028.
4. "PLAT OF LAND LINCOLN STREET EXETER N.H." DATED NOVEMBER 11, 2009 BY THOMAS D. BROUILLETTE LAND SURVEY R.C.R.D. PLAN 36209.
5. "PLAT OF LAND FOR EVELYN KEM KNAPP IN EXETER, N.H." DATED MAY 1976 BY PARKER SURVEY ASSOCIATES, INC. R.C.R.D. PLAN 5937.
6. "SUBDIVISION OF LAND EXETER, N.H. FOR JOHN FELTON" DATED NOVEMBER 1976 BY JOHN W. DURGIN R.C.R.D. PLAN 6598.
7. "PLAN OF LAND EXETER, N.H. FOR MILLIKEN INDUSTRIALS, INC." DATED NOVEMBER 11, 1981 BY JOHN W. DURGIN ASSOCIATES, INC. R.C.R.D. PLAN 10476.
8. "PLAT OF LAND FOR KRISTEN L. FIKE IN EXETER, N.H." DATED MARCH 1990 BY PARKER SURVEY ASSOCIATES, INC. R.C.R.D. PLAN 20605.
9. "PLAN OF LAND FOR EXETER SCHOOL SYSTEM IN EXETER, N.H." DATED MARCH 1992 BY PARKER SURVEY ASSOCIATES, INC. R.C.R.D. 21562.
10. "LOT LINE ADJUSTMENT PLAN OF LAND GARFIELD STREET EXETER, NEW HAMPSHIRE COUNTY OF ROCKINGHAM" DATED SEPTEMBER 1, 1994 BY CIVILWORKS, INC. R.C.R.D. PLAN 23193.
11. "PLAT OF LAND FOR JAMES E. BATCHELDER & DAVID B. COOPER IN EXETER, N.H." DATED FEBRUARY 1997 BY PARKER SURVEY ASSOCIATES, INC. R.C.R.D. PLAN 25292.
12. "PLAN OF LAND EXETER, N.H. FOR C.M. DINING, INC." DATED DECEMBER 10, 1984 BY JOHN W. DURGIN ASSOCIATES, INC. R.C.R.D. PLAN 14991.
13. "CONDOMINIUM SITE PLAN FOR GILL FRONT CONDOMINIUMS IN EXETER, N.H." DATED JUNE 16, 1986 BY SEACOST ENGINEERING ASSOCIATES, INC. R.C.R.D. PLAN 15133.
14. "CONSOLIDATION AND SUBDIVISION PLAN OF LAND GARFIELD STREET, EXETER, NEW HAMPSHIRE COUNTY OF ROCKINGHAM" DATED AUGUST 22, 1988 BY CIVILWORKS, INC. R.C.R.D. PLAN 18714.
15. "LOTLINE ADJUSTMENT FOR MARK A. & LORI A. RIPA AND THOMAS W. & MARTHA H. HOLCOMBE IN EXETER, NH" DATED JANUARY 2000 BY PARKER SURVEY ASSOCIATES, INC. R.C.R.D. PLAN 27877.
16. "PLAT OF LAND IN EXETER, NH. SHOWING A BOUNDARY SURVEY AT 19 KOSUTH STREET (ASSESSORS MAP 73 LOT 203)" DATED SEPTEMBER 03,2015 BY MILLENNIUM ENGINEERING INC. ENGINEERS AND LAND SURVEYORS R.C.R.D. PLAN 39402.
17. "PLAT OF LAND IN EXETER, NH SHOWING A BOUNDARY SURVEY 28 GARFIELD STREET (ASSESSORS MAP 73 LOT 224)" DATED SEPTEMBER 19, 2017 BY MILLENNIUM ENGINEERING INC. R.C.R.D. PLAN 40422.
18. "LOTS ON FRONT & SCHOOL STS. EXETER, N.H." DATED MAY 1930 BY JOHN W. DURGIN CIVIL ENGINEER R.C.R.D. PLAN 0545.
19. "LAND IN EXETER, N.H. BOSTON AND MAINE RAILROAD TO EXETER HANDKERCHIEF COMPANY" DATED APRIL 1960 BY GORDON E. AINSWORTH R.C.R.D. PLAN 1574-155 & 156.
20. "PLAN OF LOTS NO. 9 UNION ST. EXETER, N.H." DATED AUGUST 1950 BY JOHN W. DURGIN CIVIL ENGINEERS R.C.R.D. PLAN 01718.
21. "LAND IN EXETER, N.H. BOSTON AND MAINE RAILROAD TO C.N. DINING, INC." DATED APRIL 1960 BY GORDON E. AINSWORTH R.C.R.D. PLAN 03032.
22. "EXISTING SITE CONDITIONS PLAN GARFIELD STREET, EXETER, NEW HAMPSHIRE COUNTY OF ROCKINGHAM" DATED JUNE 24, 1994 BY CIVILWORKS, INC. ON FILE WITH THE TOWN OF EXETER.
23. "PROPOSED SITE DEVELOPMENT PLAN FOR JEFFREY MARPLE TRUSTEE FOR TURNBULE TRUST IN EXETER, N.H." DATED FEBRUARY 1984 BY PARKER SURVEY ASSOCIATES, INC. ON FILE WITH THE TOWN OF EXETER.

SMH 1015	SMH 4554
RIM ELEV.=49.4'	RIM ELEV.=55.7'
SHELF ELEV.=37.9'	SHELF ELEV.=48.4'
(1400) 10" PVC INV.=44.4'	(3959)* UNK INV.=48.1'
(A) 10" BRICK INV.=37.3'	(4862) 8" VCP INV.=48.1'
(B) 12" RCP INV.=36.8'	*TOO RECESSED
(C) 12" PVC INV.=36.7'	
*RECESSED EXTERNAL DROP PIPE, STACKED ABOVE PIPE TO 1400	SMH 4862
	RIM ELEV.=53.7'
	SHELF ELEV.=46.2'
	(4554) 8" VCP INV.=46.1'
	(6087) 12" PVC INV.=45.9'
	(3520) 12" PVC INV.=45.8'
SMH 1400	
RIM ELEV.=54.3'	
SHELF ELEV.=47.9'	
(A) 8" UNK INV.=47.8'	
(3958) 10" UNK INV.=47.5'	SMH 5191
(1015) 10" PVC INV.=47.4'	RIM ELEV.=59.6'
	DEBRIS ELEV.=55.5'
	(3958) 6" RCP INV.=55.4'
SMH 1489	
RIM ELEV.=53.8'	
(2701)* 8" PVC INV.=48.5'	SMH 5518
*MATERIAL CHANGE CONFIRMED	RIM ELEV.=61.0'
	SHELF ELEV.=57.2'
	(A) 6" VCP INV.=57.0'
	(6085) 8" VCP INV.=56.8'
SMH 2701	
RIM ELEV.=51.3'	
SHELF ELEV.=46.3'	
(1489)* 8" VCP INV.=45.9'	SMH 6046*
(3520) 8" VCP INV.=45.8'	RIM ELEV.=59.0'
*MATERIAL CHANGE CONFIRMED	(6085)**
	*LID FROZEN SHUT
	**SOUND CHECK CONFIRMED
SMH 3520	
RIM ELEV.=50.6'	SMH 6085
SHELF ELEV.=45.0'	RIM ELEV.=58.1'
(2701) 8" PVC INV.=44.6'	SHELF ELEV.=49.7'
(4862) 12" PVC INV.=44.2'	(5518) 8" VCP INV.=49.6'
(A) 12" PVC INV.=44.2'	(6046) 12" UNK INV.=49.2'
	(6087) 12" PVC INV.=49.1'
SMH 3958	
RIM ELEV.=56.6'	SMH 6087
SHELF ELEV.=51.2'	RIM ELEV.=55.3'
(5191) 10" VCP INV.=51.5'	SHELF ELEV.=47.6'
(1400) 10" VCP INV.=50.8'	(A) 8" PVC INV.=47.6'
	(6085) 12" PVC INV.=47.1'
	(4862) 12" PVC INV.=47.0'
SMH 3959	
RIM ELEV.=56.8'	
DEBRIS ELEV.=50.6'	
(A) 6" RCP INV.=51.0'	
(4554) 8" RCP INV.=50.7'	

DOUCET SURVEY CONTROL DATA				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	175533.128	1174263.783	46.97	MAG NAIL SET
2	175586.128	1174181.809	49.47	MAG NAIL SET
3	175534.558	1173955.586	54.47	MAG NAIL SET
4	175474.904	1173703.960	56.09	MAG NAIL SET
5	175520.499	1173459.957	59.67	MAG NAIL SET
6	175432.122	1173365.613	61.24	MAG NAIL SET
7	175285.006	1173293.506	60.47	MAG NAIL SET
8	175178.274	1173220.942	59.48	MAG NAIL SET
9	175056.792	1173395.226	58.70	MAG NAIL SET
10	174921.900	1173607.600	55.34	MAG NAIL SET
11	174727.365	1174626.200	48.40	MAG NAIL SET
12	174769.834	1174466.960	48.09	MAG NAIL SET
13	175089.127	1174357.273	45.82	MAG NAIL SET
50	175368.852	1173967.997	52.16	MAG NAIL SET
51	175133.742	1174009.138	51.23	MAG NAIL SET
52	174878.096	1174085.264	50.53	MAG NAIL SET
53	174762.037	1174081.976	50.90	MAG NAIL FND.
54	175274.318	1173731.460	56.52	MAG NAIL SET
55	175051.953	1173789.052	54.92	MAG NAIL SET
56	174737.980	1173805.825	54.18	MAG NAIL SET
57	174845.276	1173788.448	53.72	MAG NAIL SET
58	175236.678	1173395.962	61.07	MAG NAIL SET
59	175127.352	1173409.418	61.68	MAG NAIL SET
80	175670.771	1173916.752	54.72	MAG NAIL SET
81	175781.369	1173881.331	53.37	MAG NAIL SET
82	175720.610	1174134.957	48.17	MAG NAIL SET
90	175551.303	1174040.472	52.35	MAG NAIL SET



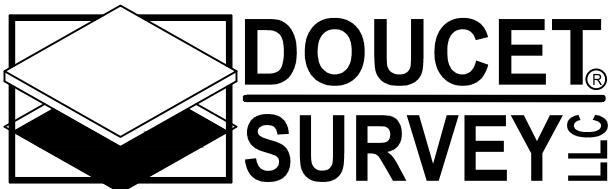
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SCALE: 1 INCH = 20 FT.

SCHOOL STREET NEIGHBORHOOD
SCHOOL STREET, GARFIELD STREET,
UNION STREET, & KOSSUTH STREET
EXETER, NEW HAMPSHIRE

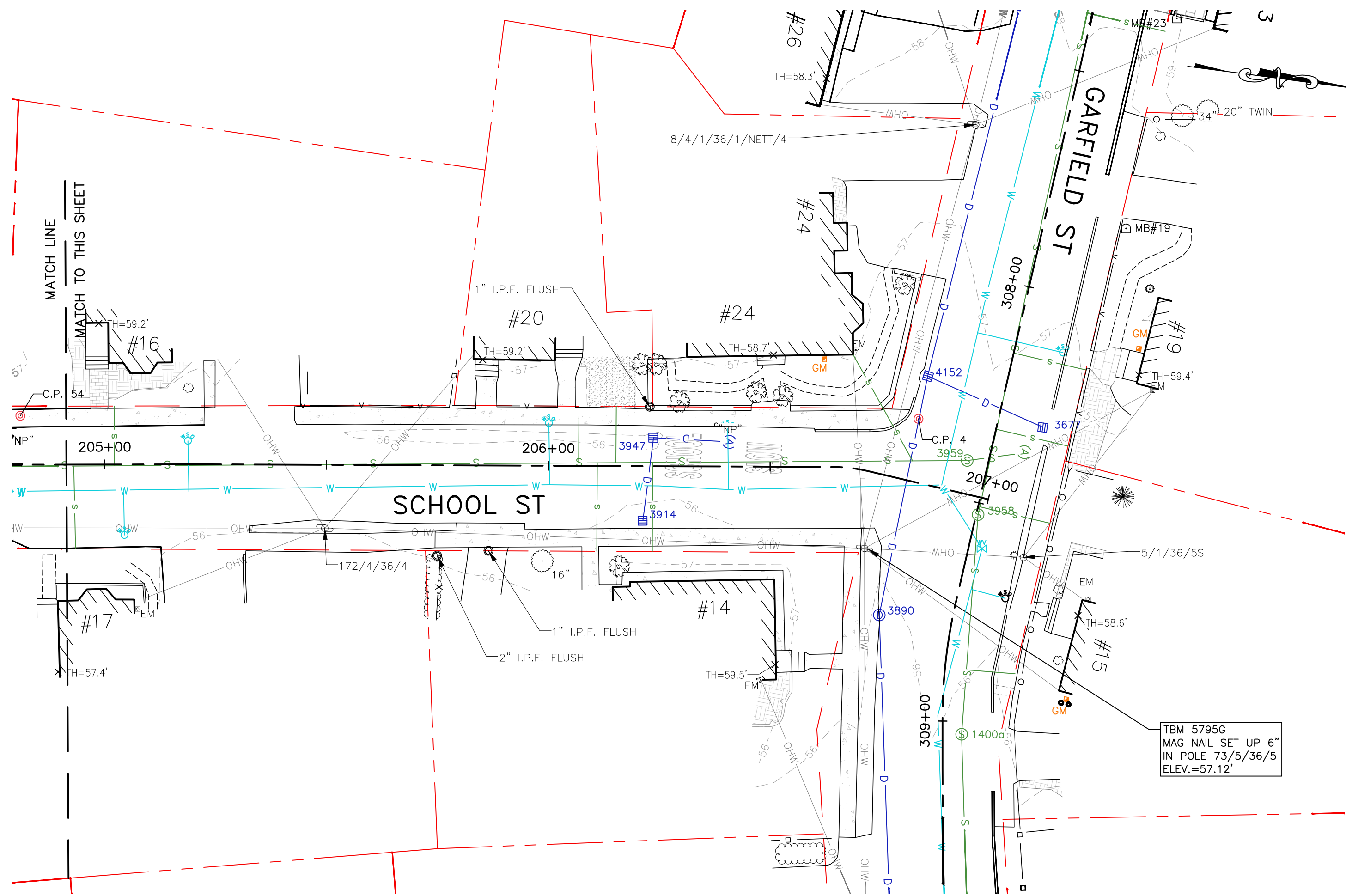
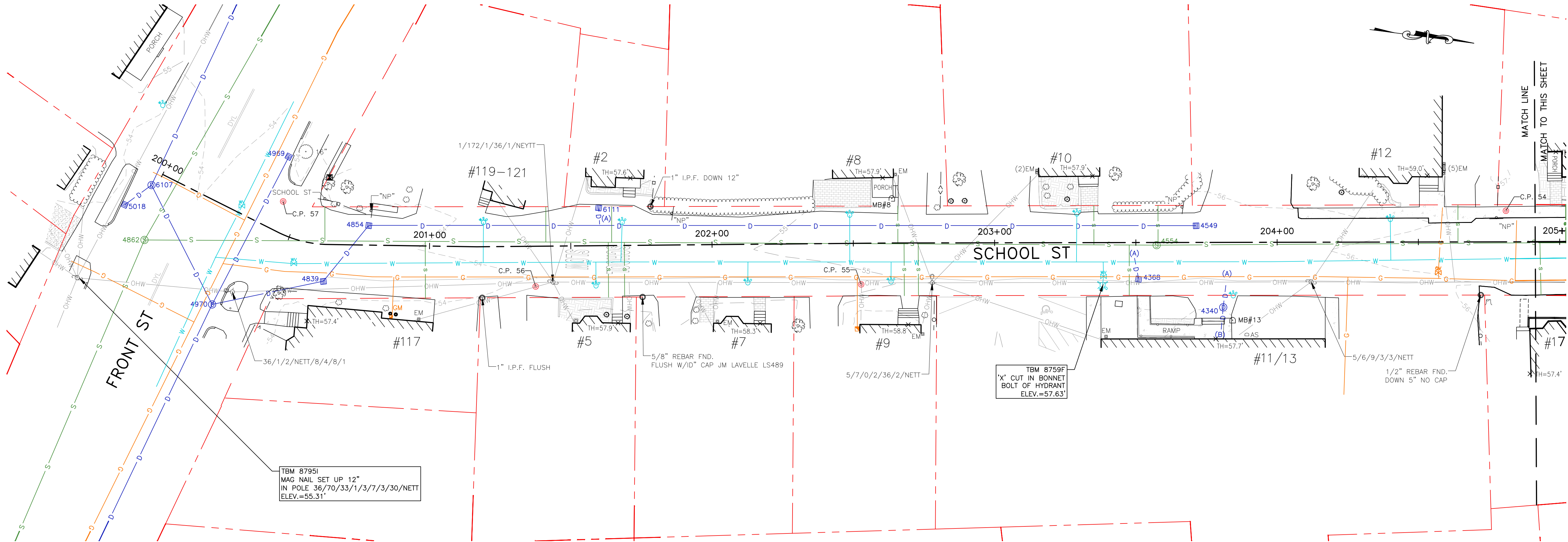
DOUCET SURVEY CONTROL DATA				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1122	175591.478	1174131.484	50.02	TBM 8795A MAG NAIL SET UP 6" IN POLE 12/51
1621	175545.400	1173958.978	55.06	TBM 8795B MAG NAIL SET UP 6" IN POLE NETT/35/8/74/1/1/1/1/5
1980	175675.542	1173922.773	54.83	TBM 8795C MAG NAIL SET UP 7" IN POLE 1/1/1/6
2996	175082.155	1174044.448	50.79	TBM 8795D MAG NAIL SET UP 6" IN POLE NETT/56/55
3630	174848.753	1174086.302	50.92	TBM 8795E MAG NAIL SET UP 6" IN POLE 196/7/35/1/FP
4631	175136.808	1173777.049	57.63	TBM 8759F "X" CUT IN BONNET BOLT OF HYDRANT
5092	175467.708	1173734.604	57.12	TBM 5795G MAG NAIL SET UP 6" IN POLE 73/5/36/5
5517	175419.122	1173371.299	61.62	TBM 8795H MAG NAIL SET UP 6" IN POLE 111/4/37/4/FP
5949	175032.293	1173419.280	59.65	TBM 8795J MAG NAIL SET UP 14" IN POLE 9/0/6/38/51
6058	175172.316	1173236.220	60.92	TBM 8795K MAG NAIL SET UP 12" IN POLE 40/51/3/37-R
6109	174777.577	1173825.327	55.31	TBM 8795I MAG NAIL SET UP 12" IN POLE 36/70/33/1/3/7/3/30/NETT

DRAWN BY: C.P.M.	DATE: FEBRUARY 2025
CHECKED BY: A.D.K.	DRAWING NO. 8795A
JOB NO. 8795	SHEET 1 OF 5



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Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Existing Conditions Plan	date: July 2026	designed by: CFC/WAB	 CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 c m a e n g i n e e r s . c o m			
	project no: 1350	drawn by: FDG/CLM				
	checked by: PAC	approved by: PAC				
	scale:					
	drawing no. ECP-1					
sheet:	5	of	49			



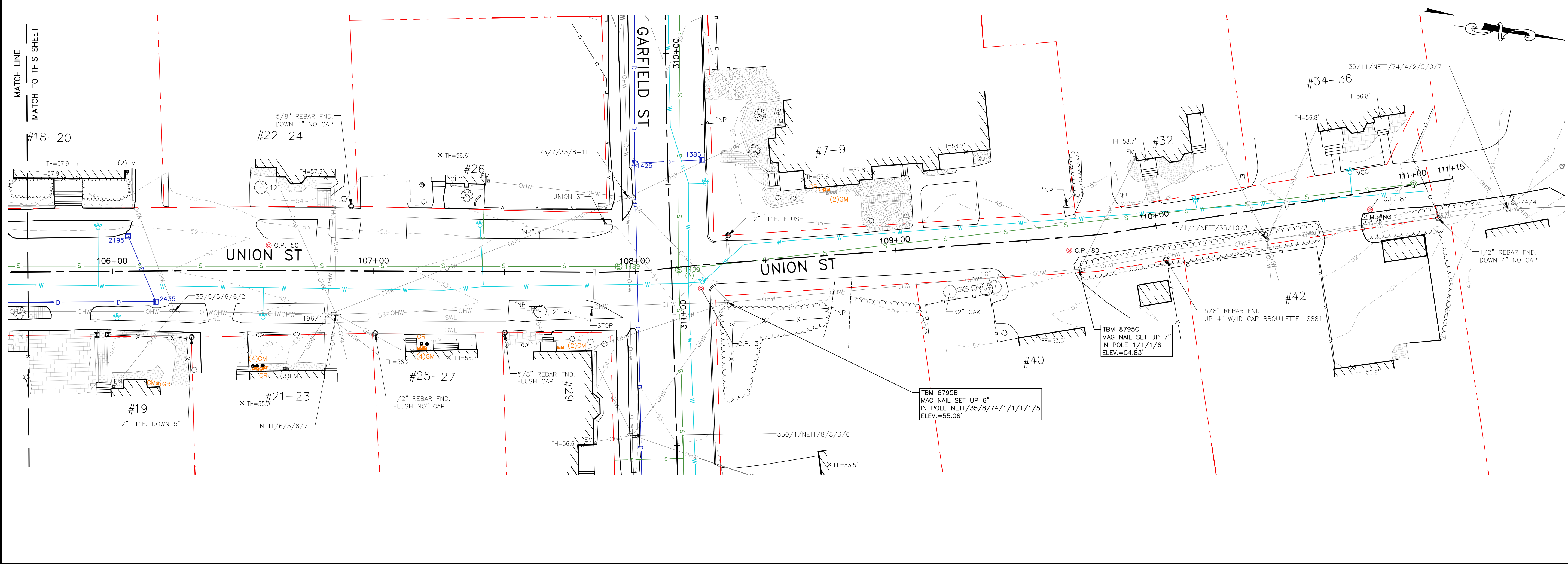
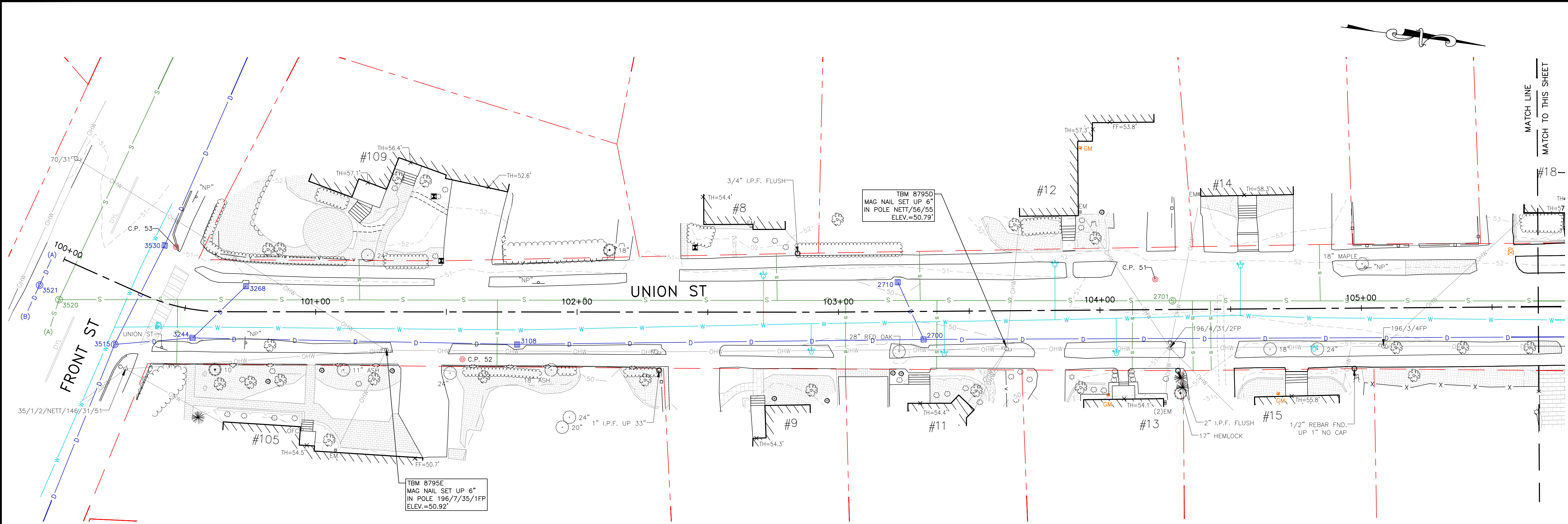
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Existing Conditions Plan School Street		date: July 2026		designed by: CFCWAB	
		project no: 1350	drawn by: FDG/CLM	checked by: PAC	approved by: PAC
drawing no. ECP-2		scale: 0 20' 40' Scale: 1" = 20'		revision no. 1	
sheet: 6 of 49		date: 7/2/26		by: PAC	

CMA
ENGINEERS

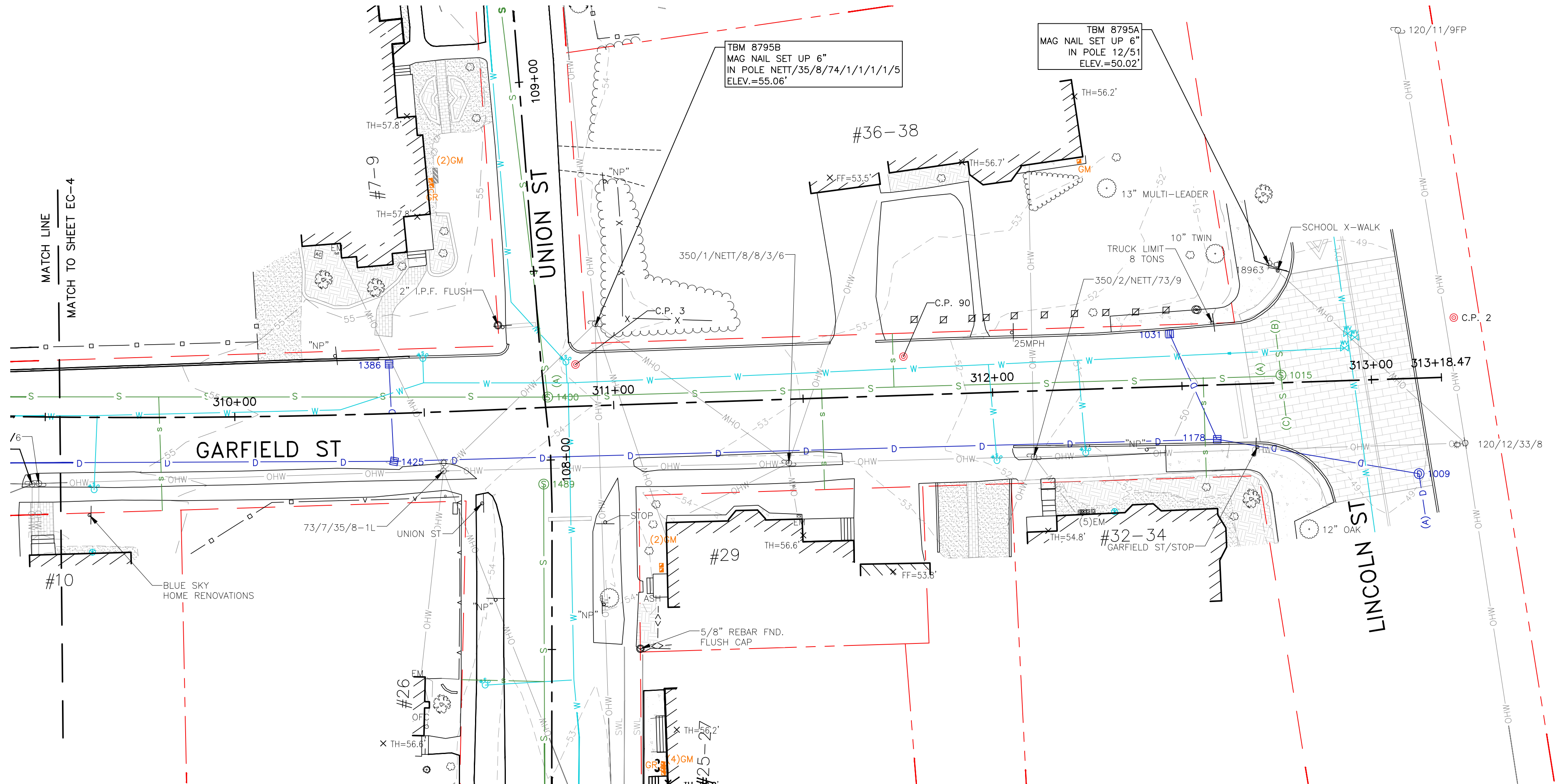
Civil/Environmental/Structural

Portsmouth NH • Manchester, NH • Portland, ME
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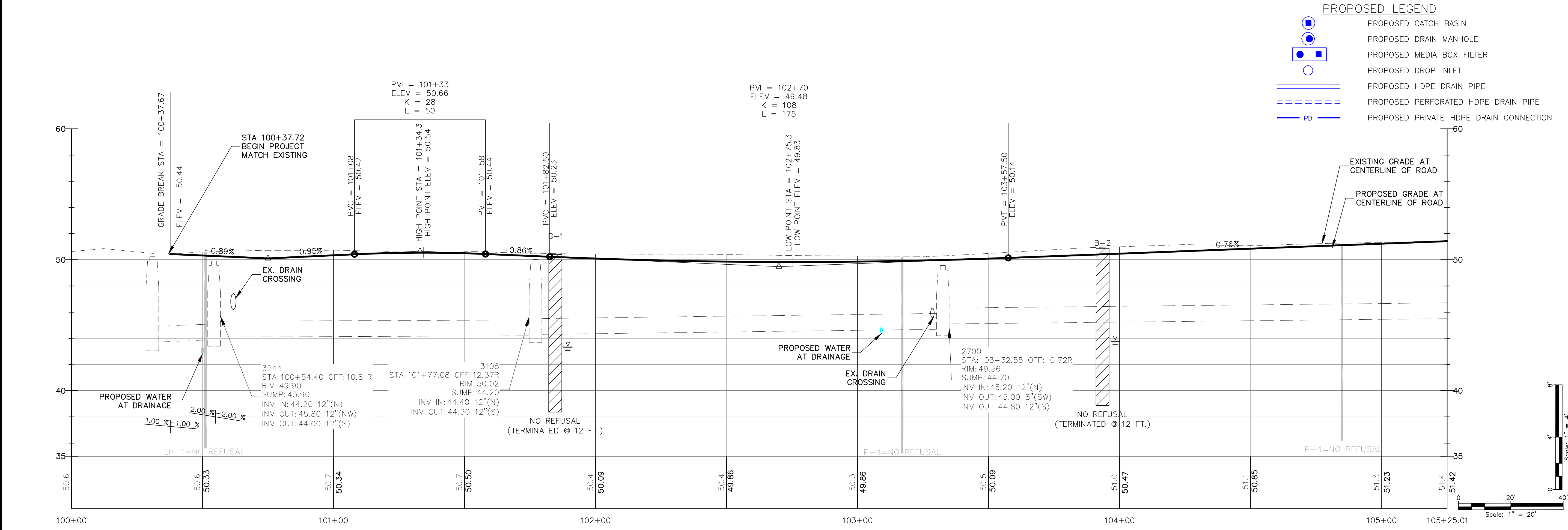
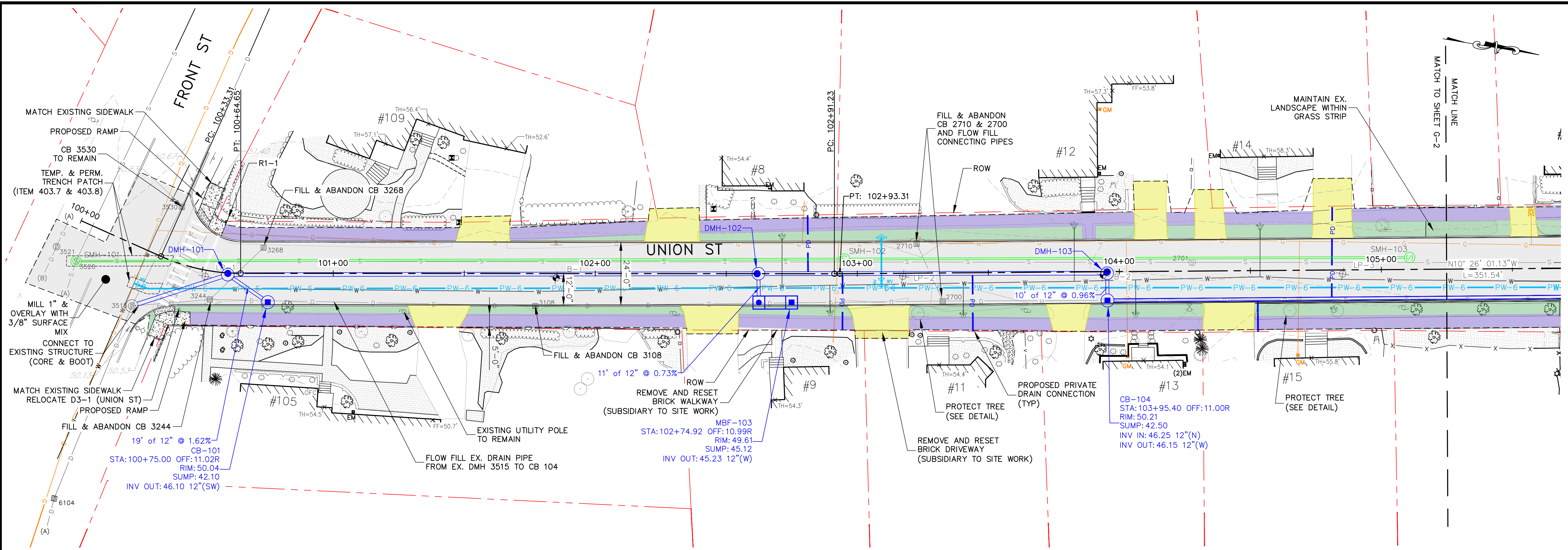
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CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL		Portsmouth NH • Manchester NH • Portland ME 603/431-6196 • 603/627-0708 • 207/541-4223		c m a e n g i n e e r s . c o m	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Existing Conditions Plan Union Street	
drawing no. ECP-3		sheet: 7 of 49			
date: July 2026	designed by: CFC/WAB	project no: 1350	drawn by: FDG/CLM	checked by: PAC	approved by: PAC
			scale: 0' 20' 40' Scale: 1" = 20'		
			revision 1 Issued for Construction		
			no. 7/2/26		
			date PAC		
			by		

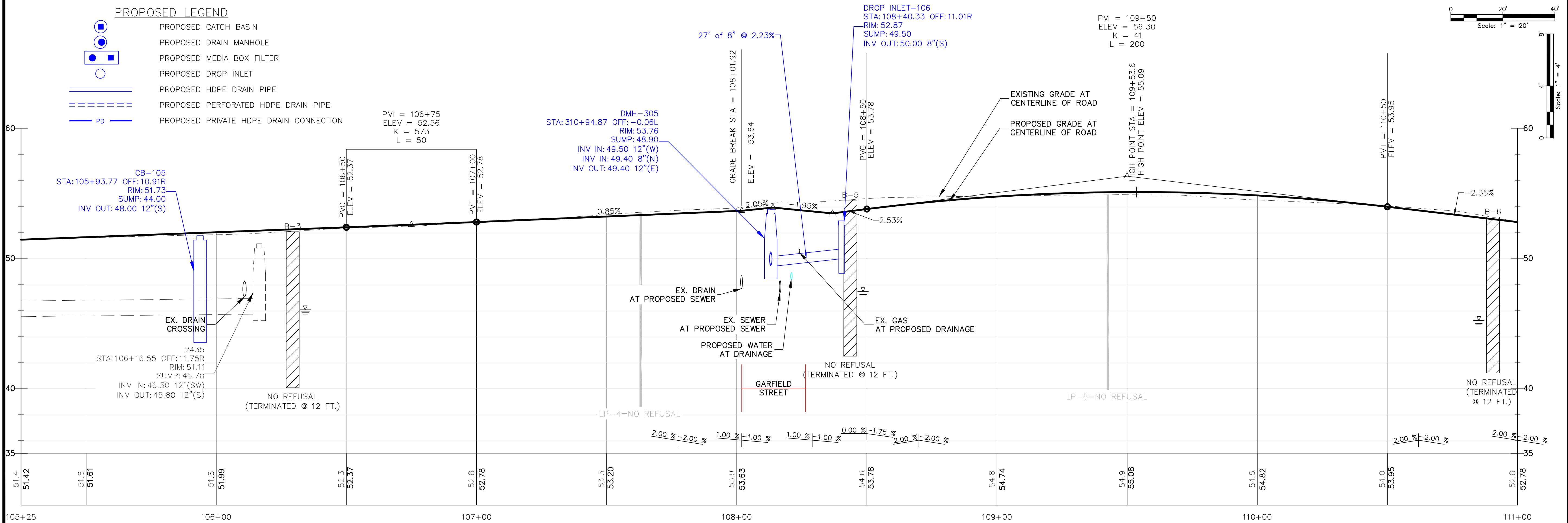
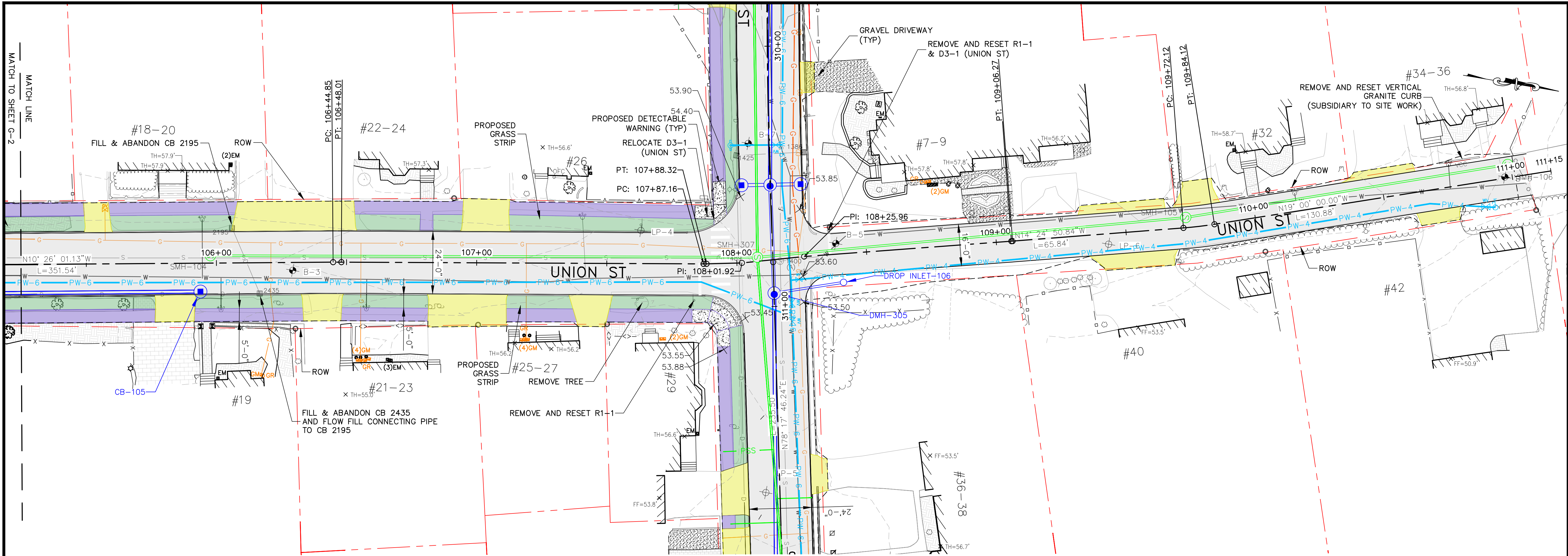


Town of Exeter, New Hampshire Department of Public Works		date: July 2026		designed by: CFCWAB			
School Street Area Utility Improvement Project		project no: 1350		drawn by: FDG/CLM			
Existing Conditions Plan Garfield Street		checked by: PAC		approved by: PAC			
drawing no: ECP-5		scale: 0 20' 40' Scale: 1" = 20'					
sheet: 9 of 49		no. 1		revision		by PAC	
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						7/2/26	
						date	

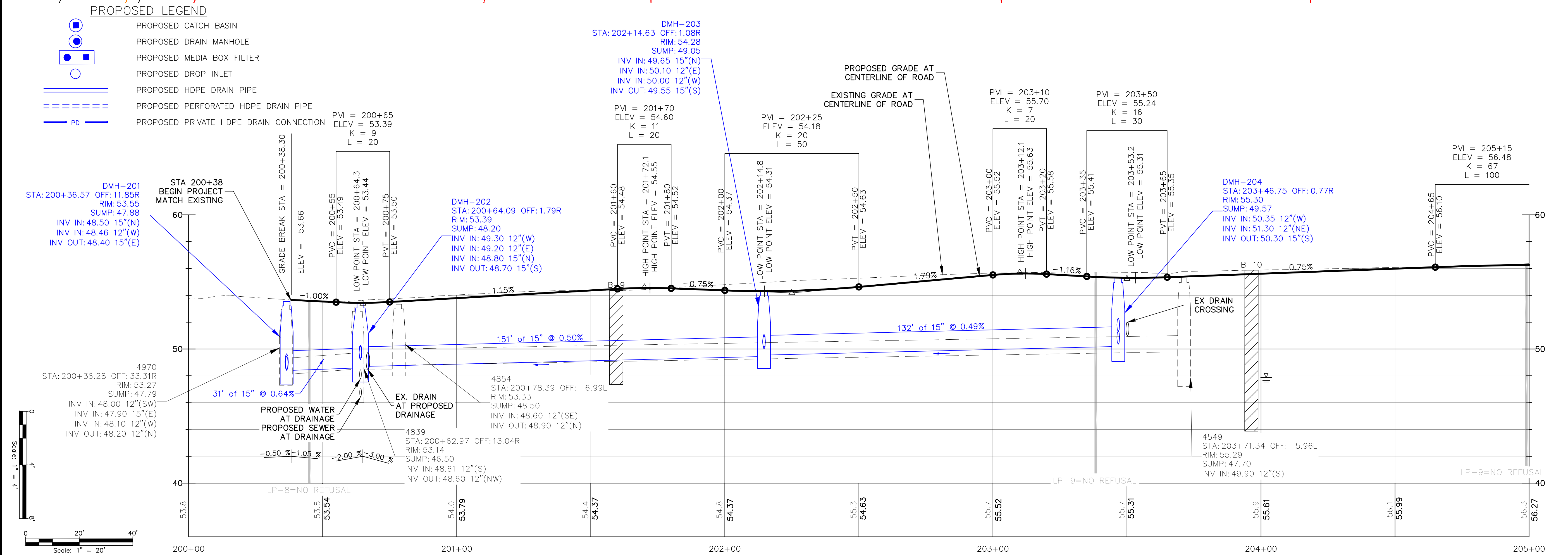


PROPOSED LEGEND	
	PROPOSED CATCH BASIN
	PROPOSED DRAIN MANHOLE
	PROPOSED MEDIA BOX FILTER
	PROPOSED DROP INLET
	PROPOSED HDPE DRAIN PIPE
	PROPOSED PERFORATED HDPE DRAIN PIPE
	PROPOSED PRIVATE HDPE DRAIN CONNECTION

CMA ENGINEERS Civil/Environmental/Structural		7/2/2026	
Portsmouth, NH 03801 Manchester, NH 03102 Portland, ME 04101		Issued for Construction	
c m a e n g i n e e r s . c o m		1	
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project		drawing no. G-1	
Proposed Roadway and Drainage Union St STA 100+00 to STA 105+25		sheet: 10 of 49	



		7/2/2026 date	
CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth NH 603/431-6196 Manchester NH 603/627-0708 Portland ME 207/541-4223 c m a e n g i n e e r s . c o m		1 revision	
designed by: CFCWAB		drawn by: PDG/CCLM	
date: July 2026		project no: 1350	
checked by: WAB		approved by: PAC	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project	
Proposed Roadway and Drainage Union St STA 105+25 to STA 111+00		drawing no: G-2	
sheet: 11 of 49		7/2/26 date	

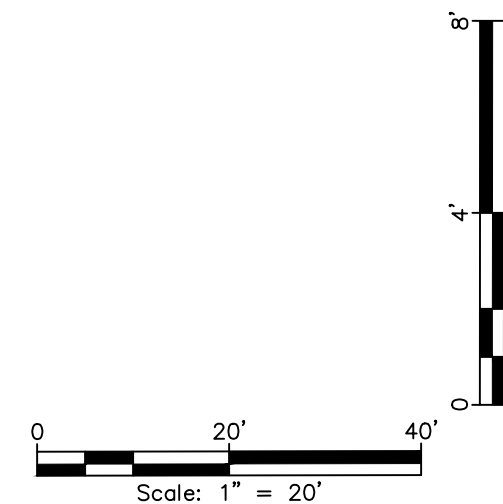
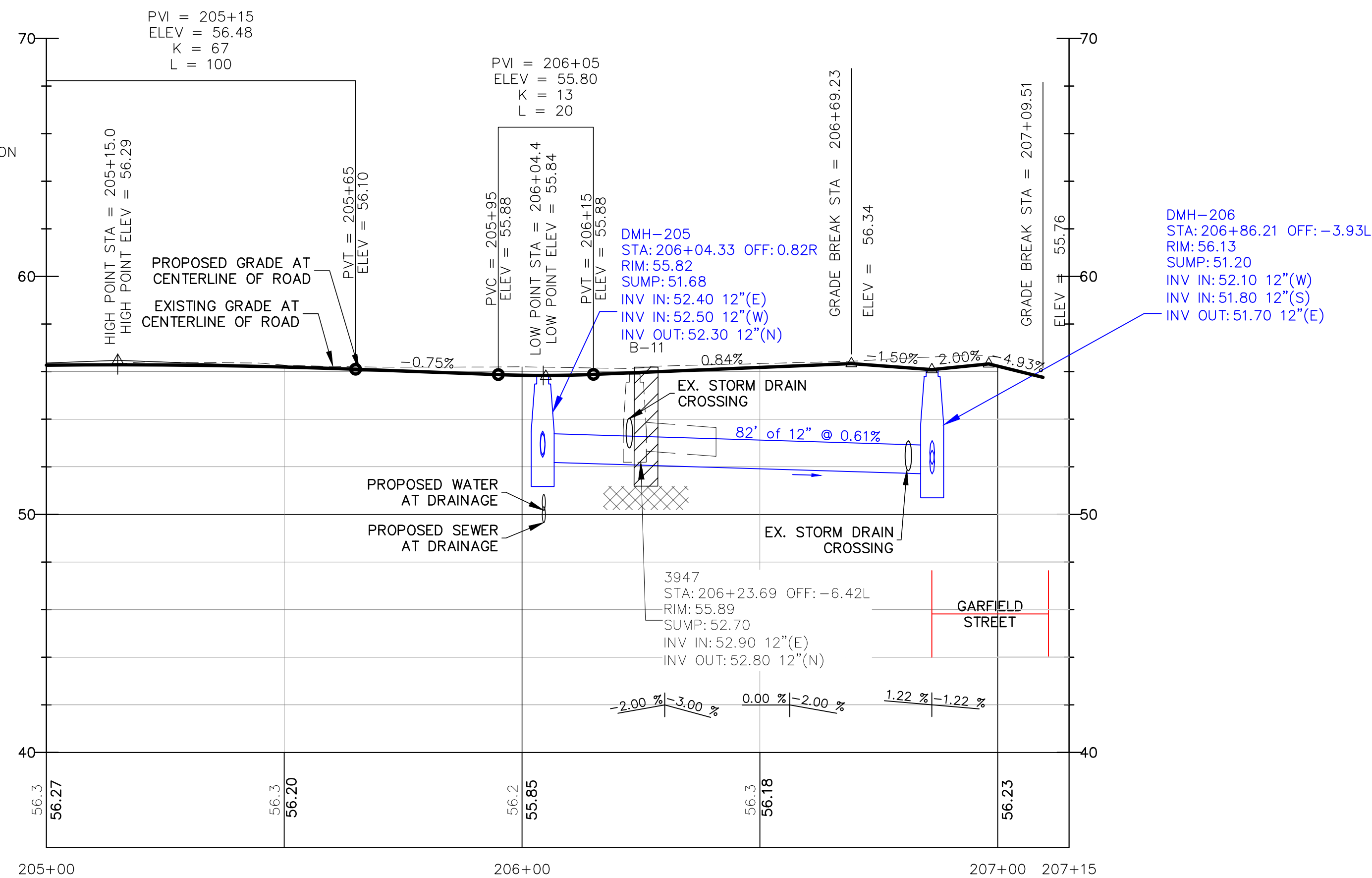
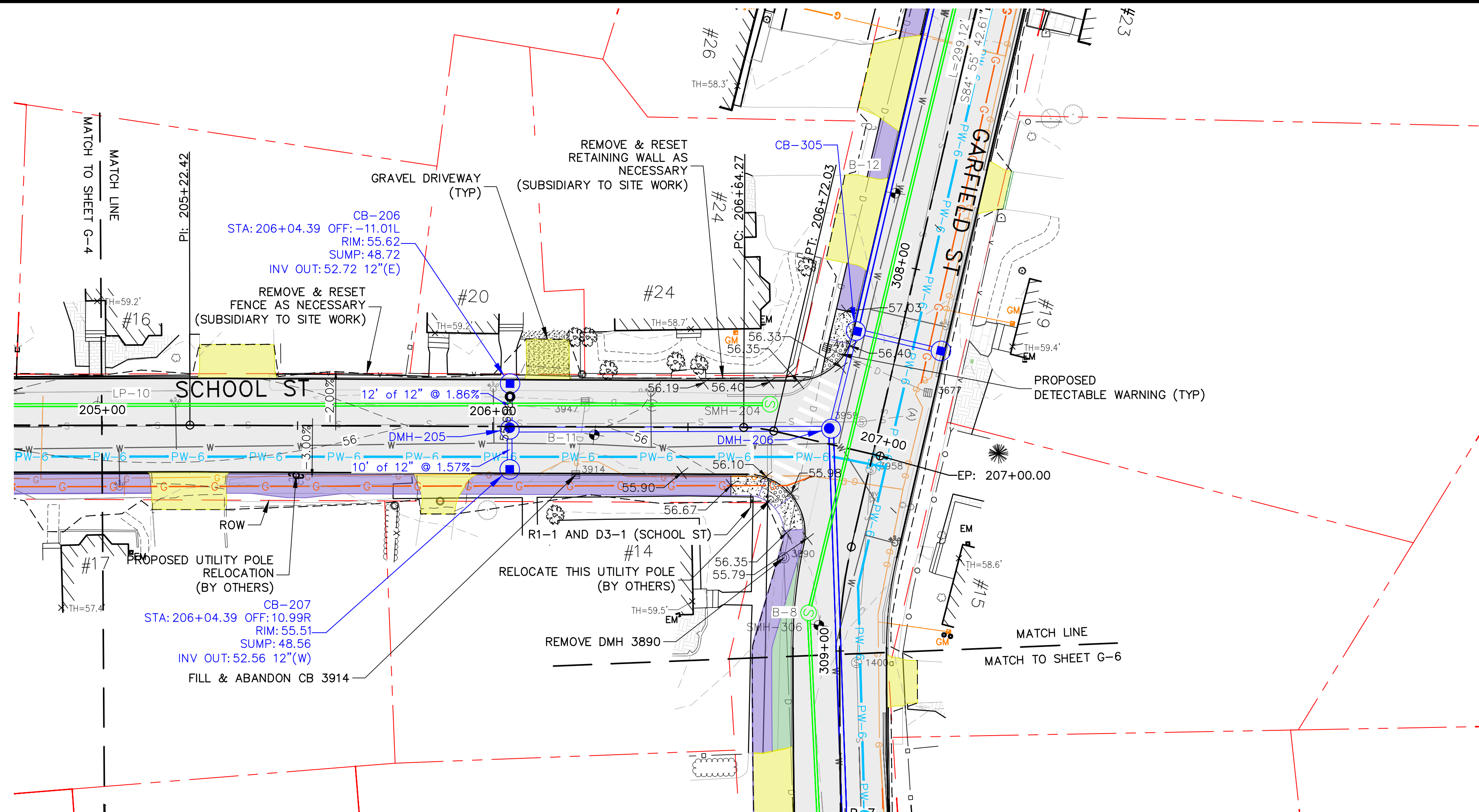


Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Proposed Roadway & Drainage School St STA 200+00 to STA 205+00	date: July 2026 project no: 1350 checked by: WAB	designed by: GFC/WAB drawn by: FDG/CLM approved by: PAC	 7/2/2026	CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223	1	Issued for Construction	7/2/26	PAC	no.	revision	date	by

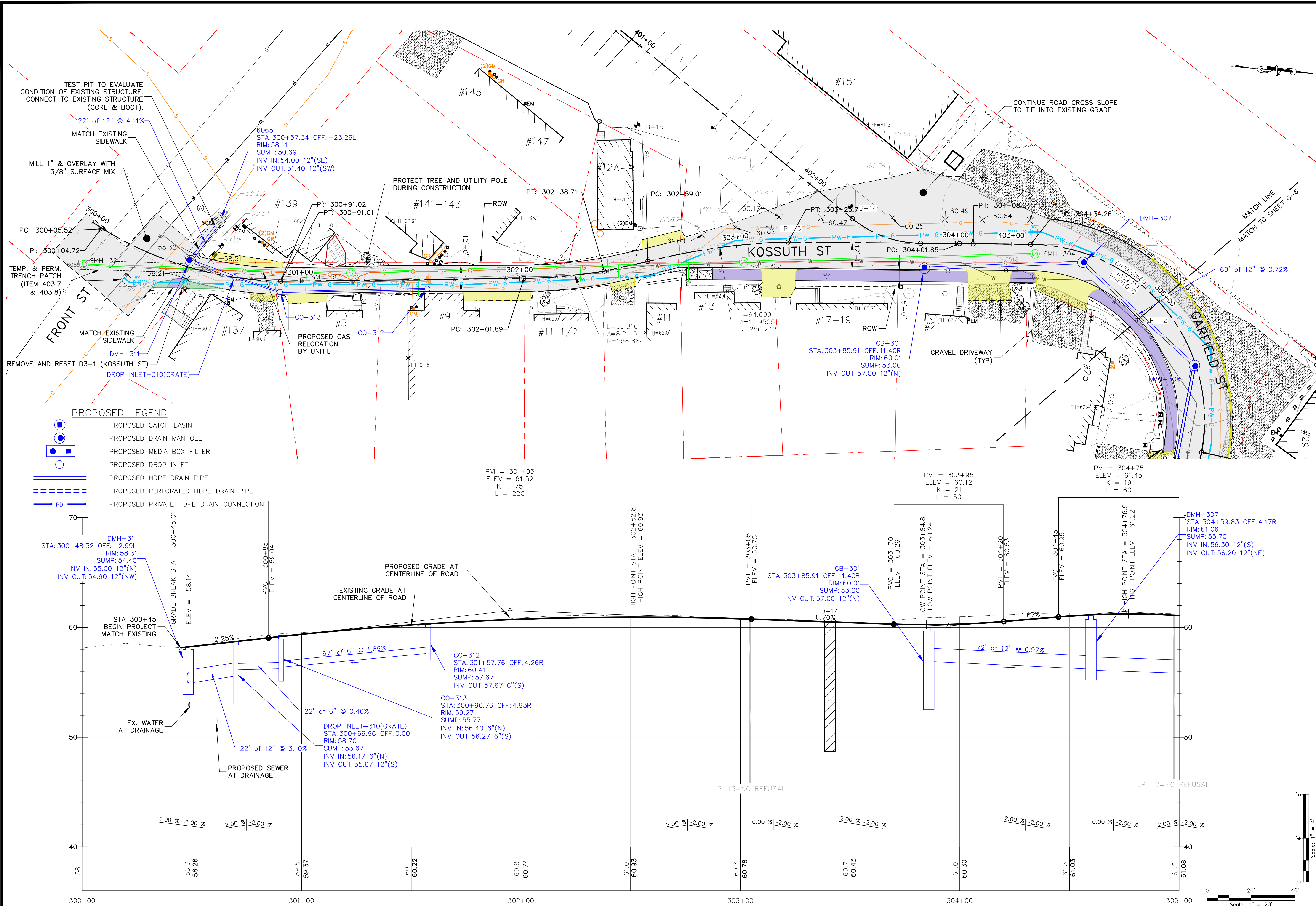
drawing no.

G-3

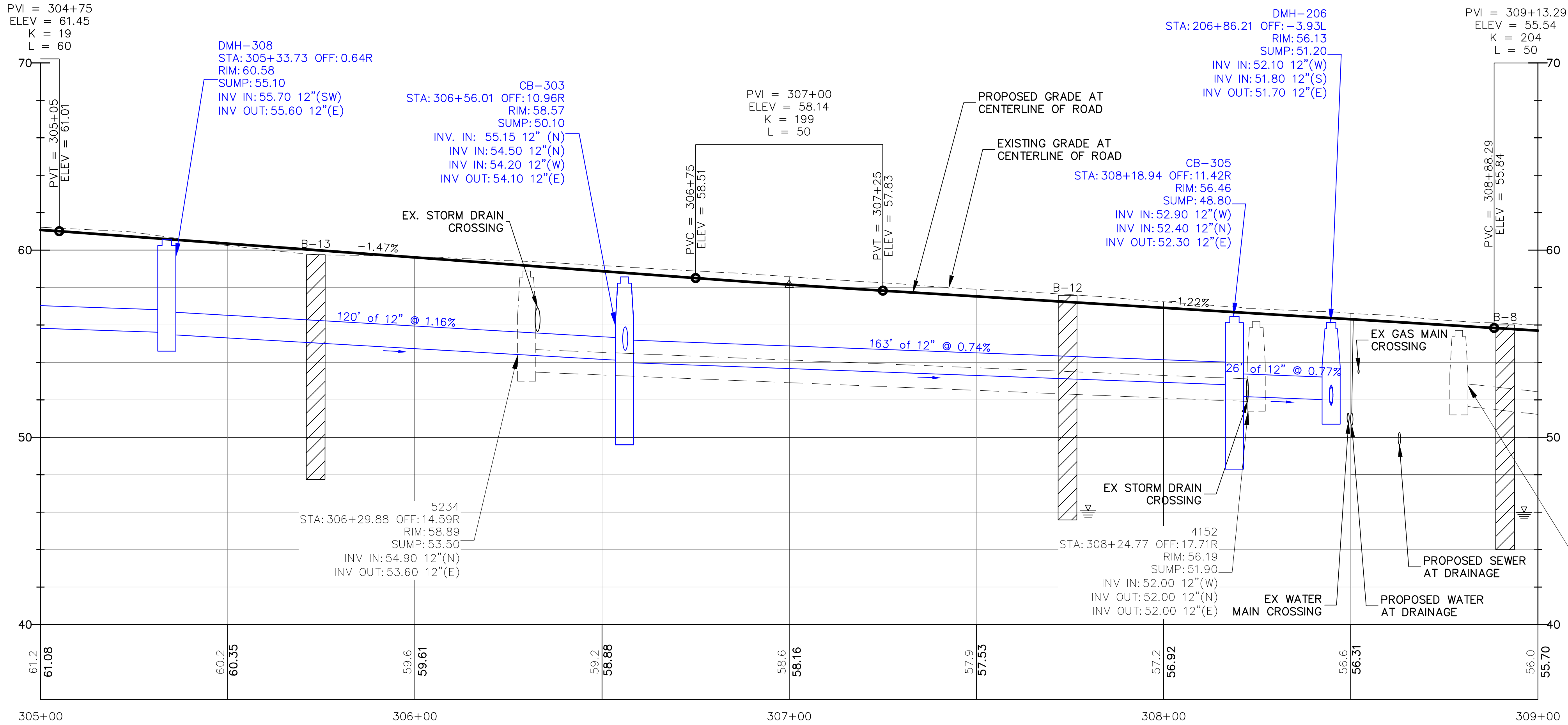
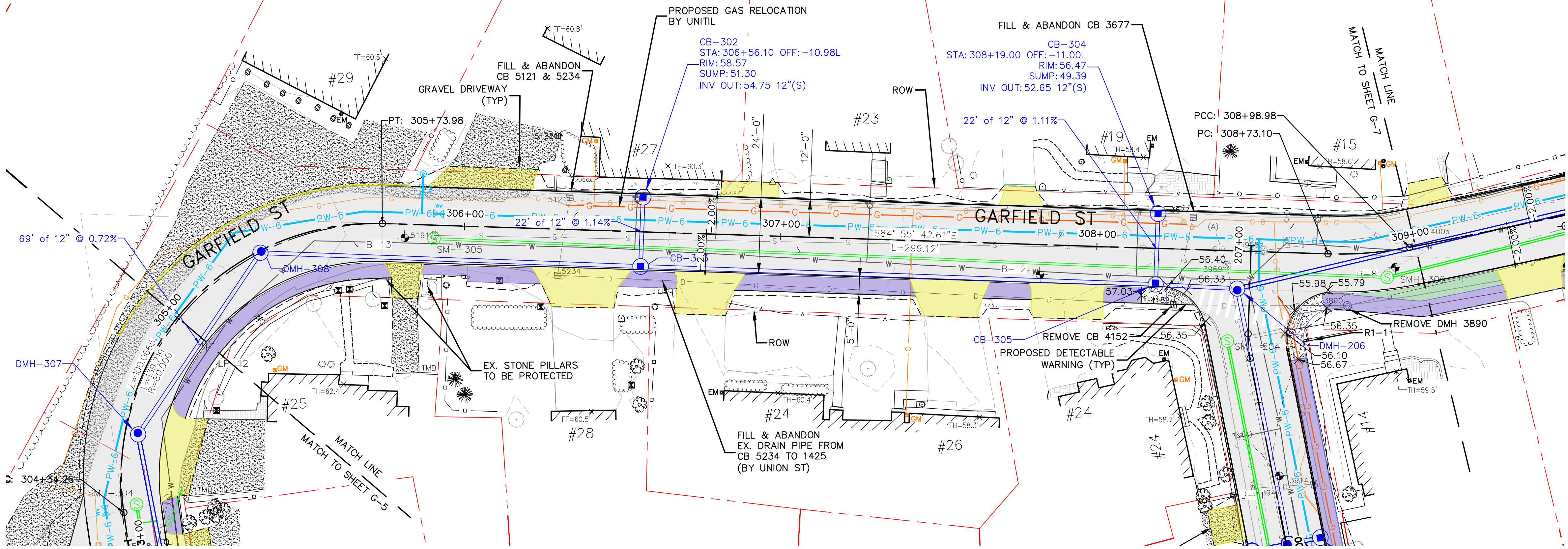
- PROPOSED LEGEND
- PROPOSED CATCH BASIN
 - PROPOSED DRAIN MANHOLE
 - PROPOSED MEDIA BOX FILTER
 - PROPOSED DROP INLET
 - PROPOSED HDPE DRAIN PIPE
 - PROPOSED PERFORATED HDPE DRAIN PIPE
 - PROPOSED PRIVATE HDPE DRAIN CONNECTION



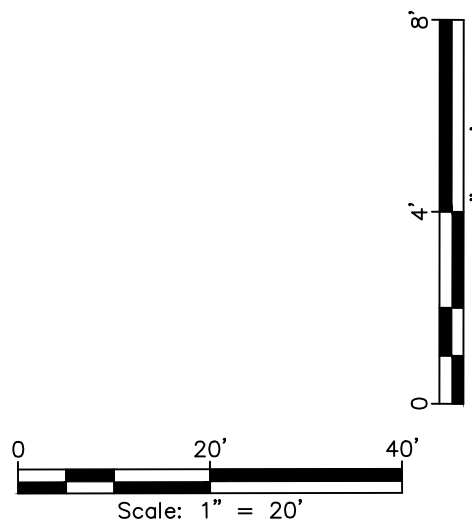
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Proposed Roadway & Drainage School St STA 205+00 to 207+15		drawing no. G-4	sheet: 13 of 49
date: July 2026	designed by: CFCWAB	project no: 1350	checked by: WAB
drawn by: FDG/CLM	approved by: PAC	scale: 0 20' 40'	Scale: 1" = 20'
CMA ENGINEERS Civil/Environmental/Structural		7/2/2026	
Portsmouth, NH 603/431-6196		Manchester, NH 603/627-0708	
Portland, ME 207/541-4223		c m a e n g i n e e r s . c o m	
Issued for Construction		no.	date
1		7/2/26	PAC
revision		no.	by



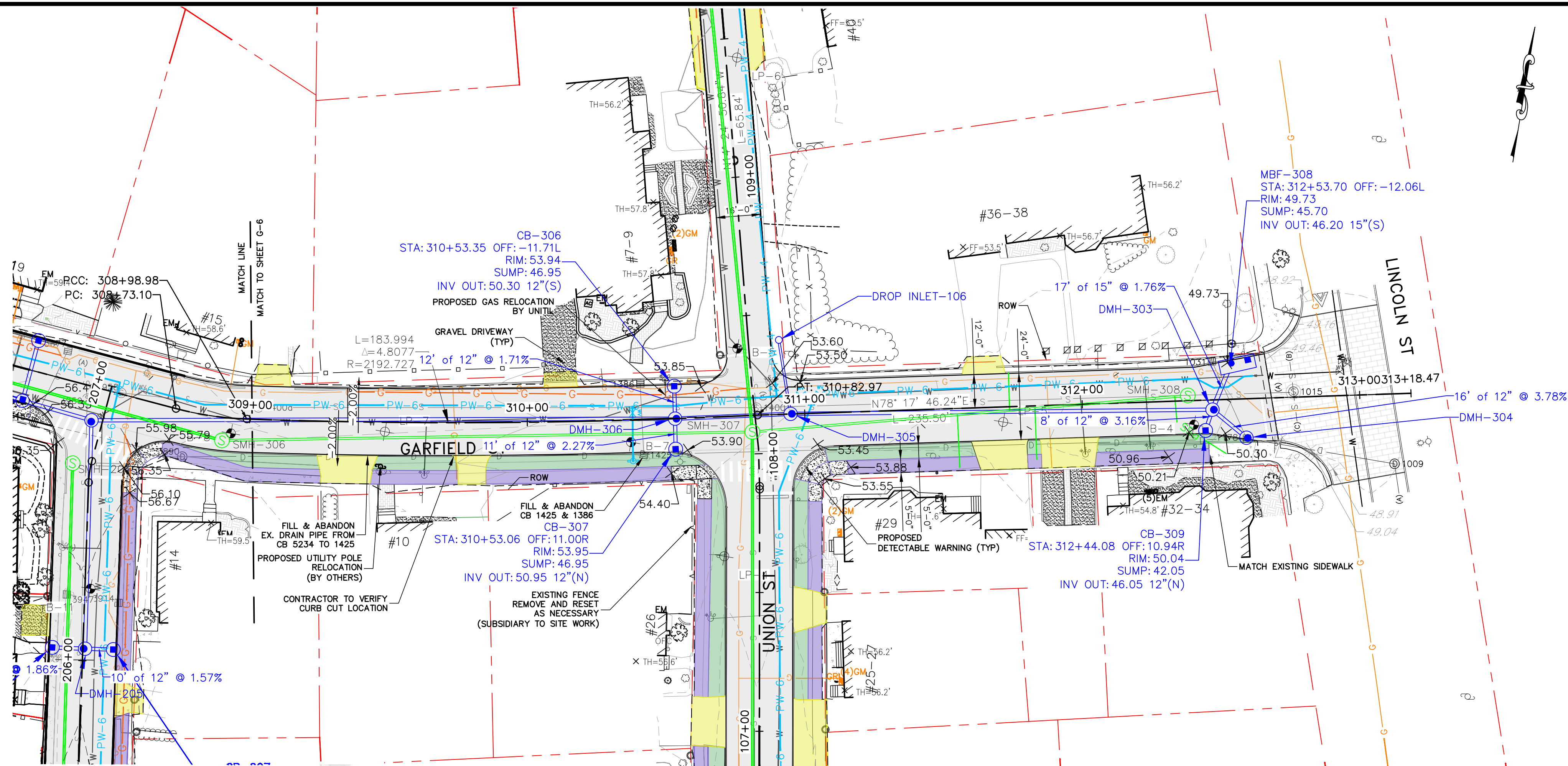
CMA ENGINEERS Civil/Environmental/Structural Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/541-4223 cmaengineers.com		7/2/2026 Issued for Construction		PAC	
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Proposed Roadway and Drainage Kossuth STA 300+00 to STA 305+00		drawing no. G-5		sheet: 14 of 49	
date: July 2026	designed by: CFC/WAB	project no: 1350	drawn by: FDG/CLM	checked by: WAB	approved by: PAC
scale: 1" = 20'			scale: 1" = 4'		



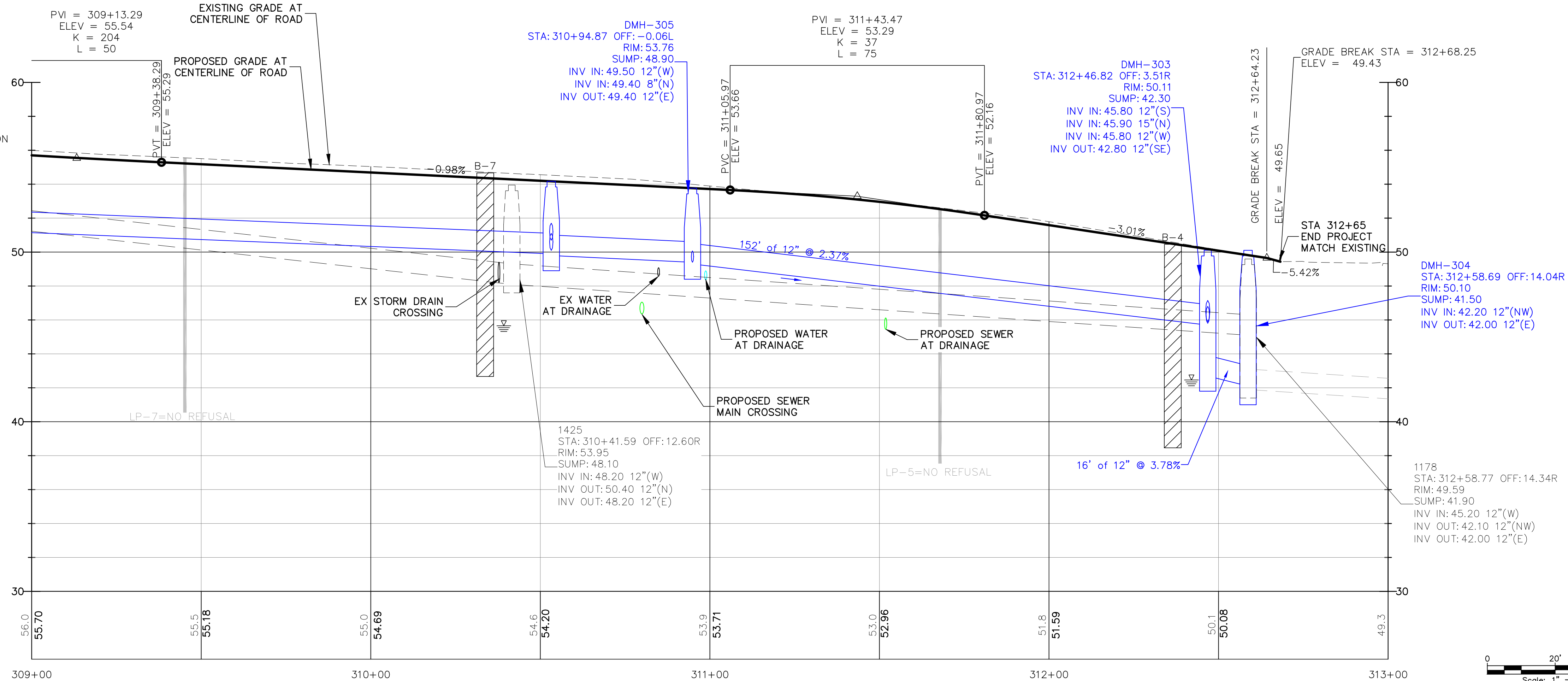
- PROPOSED LEGEND**
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 - PROPOSED PERFORATED HDPE DRAIN PIPE
 - PROPOSED PRIVATE HDPE DRAIN CONNECTION



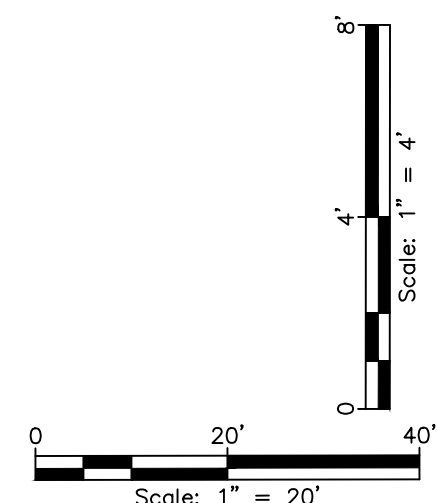
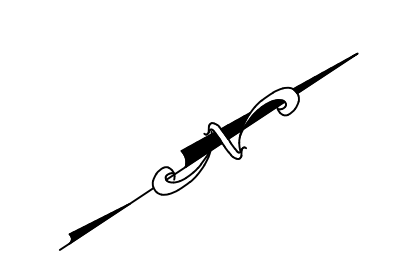
Town of Exeter, New Hampshire Department of Public Works		designed by: CFCWAB	date: July 2026	School Street Area Utility Improvement Project		drawn by: FDG/CLM	project no: 1350	Proposed Roadway and Drainage Garfield St STA 305+00 to STA 309+00		drawing no: G-6	
School Street Area Utility Improvement Project		checked by: WAB	approved by: PAC	Garfield St STA 305+00 to STA 309+00		scale: 0 20' 40'	scale: 0 20' 40'	sheet: 15 of 49		no. 1	
School Street Area Utility Improvement Project		7/2/2026		Garfield St STA 305+00 to STA 309+00		CMA ENGINEERS		Civil/Environmental/Structural		revision	
School Street Area Utility Improvement Project		Issued for Construction		Garfield St STA 305+00 to STA 309+00		CMA ENGINEERS		Civil/Environmental/Structural		date	
School Street Area Utility Improvement Project		7/2/26		Garfield St STA 305+00 to STA 309+00		CMA ENGINEERS		Civil/Environmental/Structural		by	
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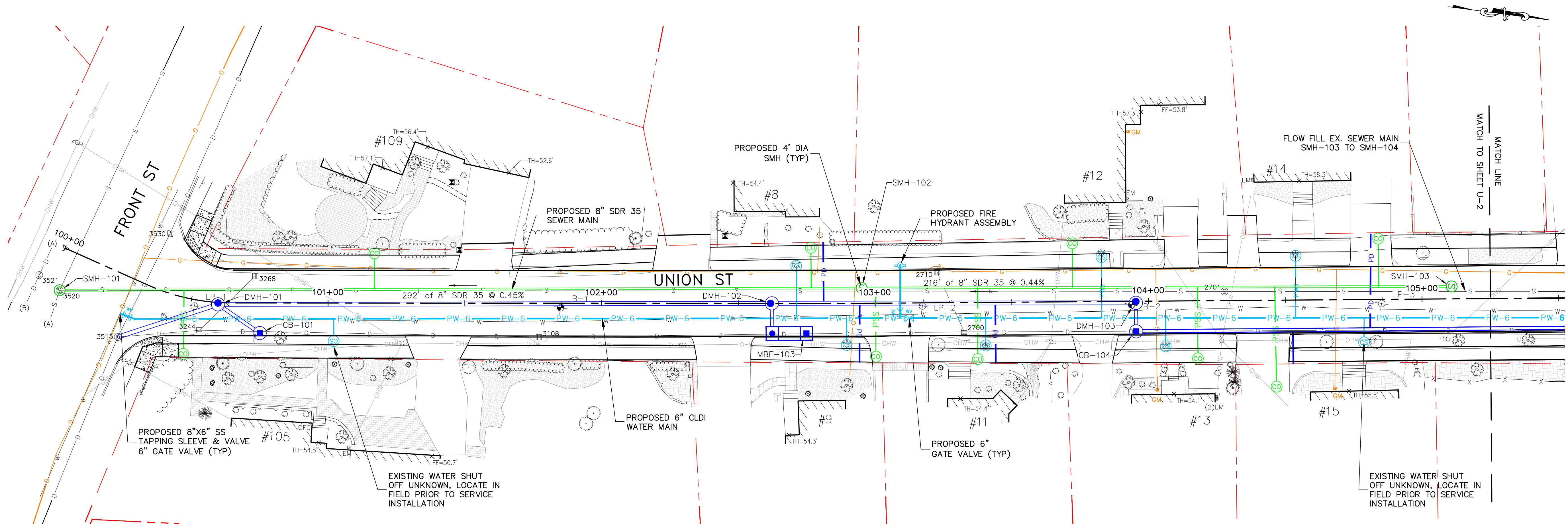


- PROPOSED LEGEND**
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 - PROPOSED DRAIN MANHOLE
 - PROPOSED MEDIA BOX FILTER
 - PROPOSED DROP INLET
 - PROPOSED HDPE DRAIN PIPE
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CMA ENGINEERS Civil/Environmental/Structural		7/2/2026		PAC	
Portsmouth, NH 603/431-6196		Manchester, NH 603/627-0708		Portland, ME 207/541-4223	
c m a e n g i n e e r s . c o m		revision		date	
1		Issued for Construction		7/2/26	
no.		revision		date	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Proposed Roadway & Drainage Garfield St STA 309+00 to STA 313+00	
drawing no. G-7		sheet: 16 of 49			



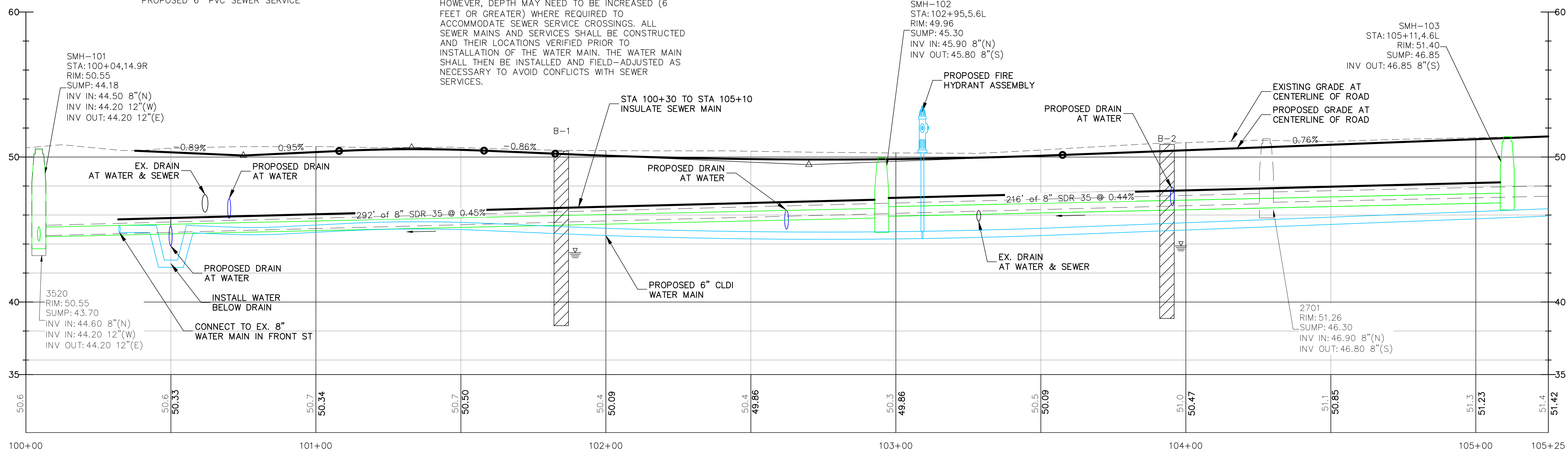


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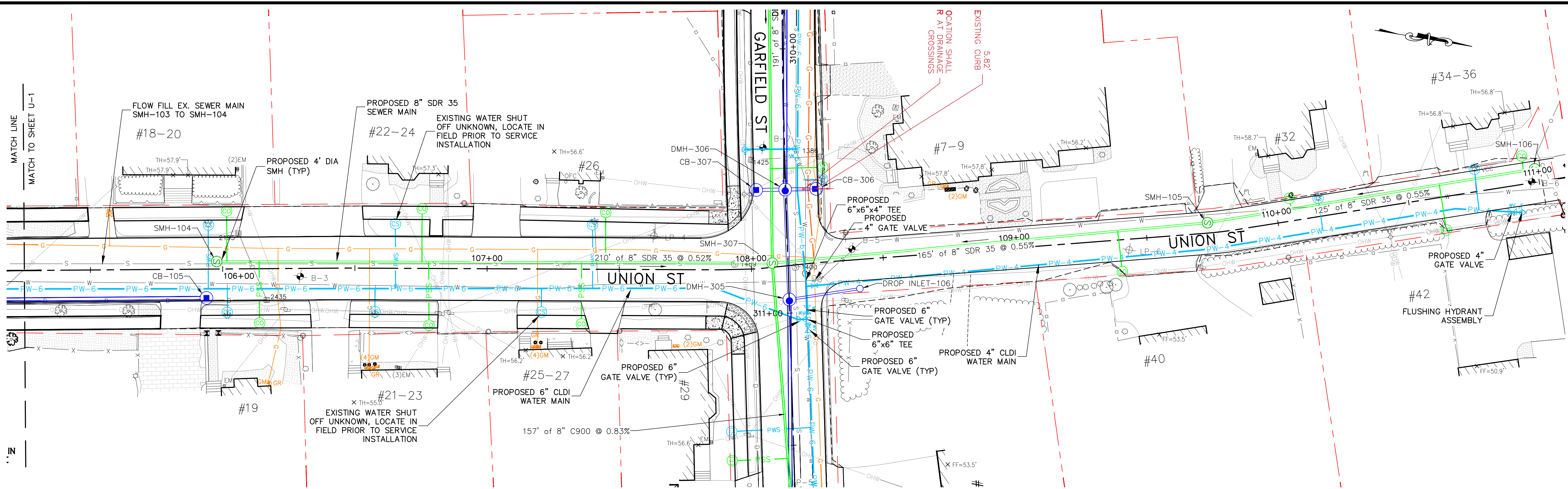
- PROPOSED WATER VALVE
- PROPOSED WATER CURB STOP
- PROPOSED FIRE HYDRANT
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- PROPOSED 4" CLDI WATER MAIN
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NOTES:

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- SEWER SERVICES WILL CROSS WATER MAIN AT VARIOUS LOCATIONS AND DEPTH DEPENDING ON EXISTING SERVICE CONNECTION POINTS. THE FINAL DEPTH AND ALIGNMENT OF THE WATER MAIN SHALL BE ADJUSTED AS NECESSARY TO AVOID CONFLICTS WITH SEWER SERVICES. THE WATER MAIN IS TYPICALLY DESIGNED FOR 5 FEET OF COVER; HOWEVER, DEPTH MAY NEED TO BE INCREASED (6 FEET OR GREATER) WHERE REQUIRED TO ACCOMMODATE SEWER SERVICE CROSSINGS. ALL SEWER MAINS AND SERVICES SHALL BE CONSTRUCTED AND THEIR LOCATIONS VERIFIED PRIOR TO INSTALLATION OF THE WATER MAIN. THE WATER MAIN SHALL THEN BE INSTALLED AND FIELD-ADJUSTED AS NECESSARY TO AVOID CONFLICTS WITH SEWER SERVICES.



CMA ENGINEERS Civil/Environmental/Structural Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/541-4223 cmaengineers.com		1	Issued for Construction	7/2/26	PAC
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Proposed Utility Plans Union St STA 100+00 to STA 105+25		drawing no. U-1		sheet: 18 of 49	

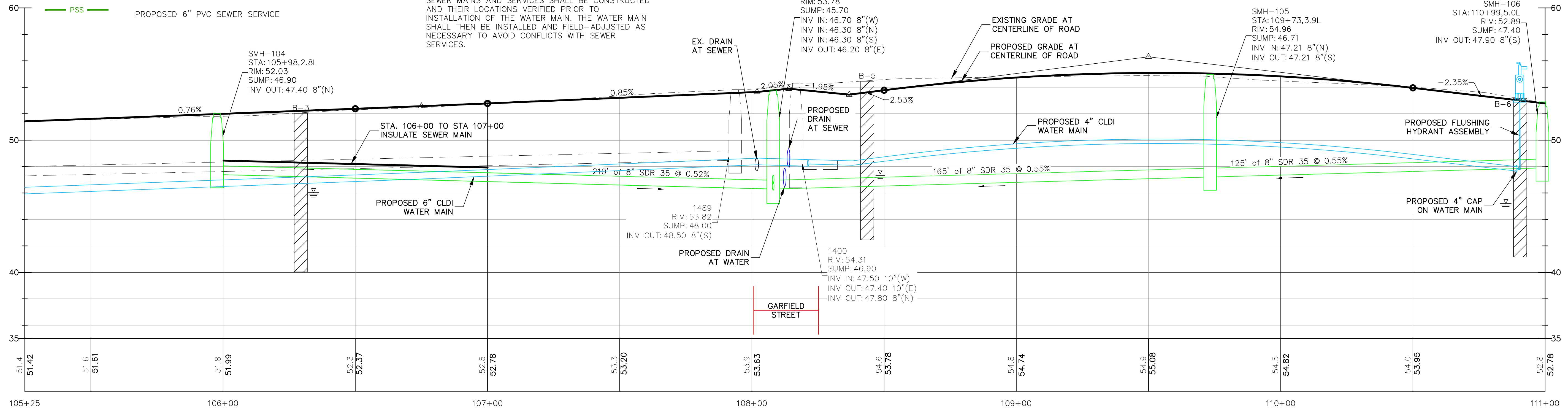


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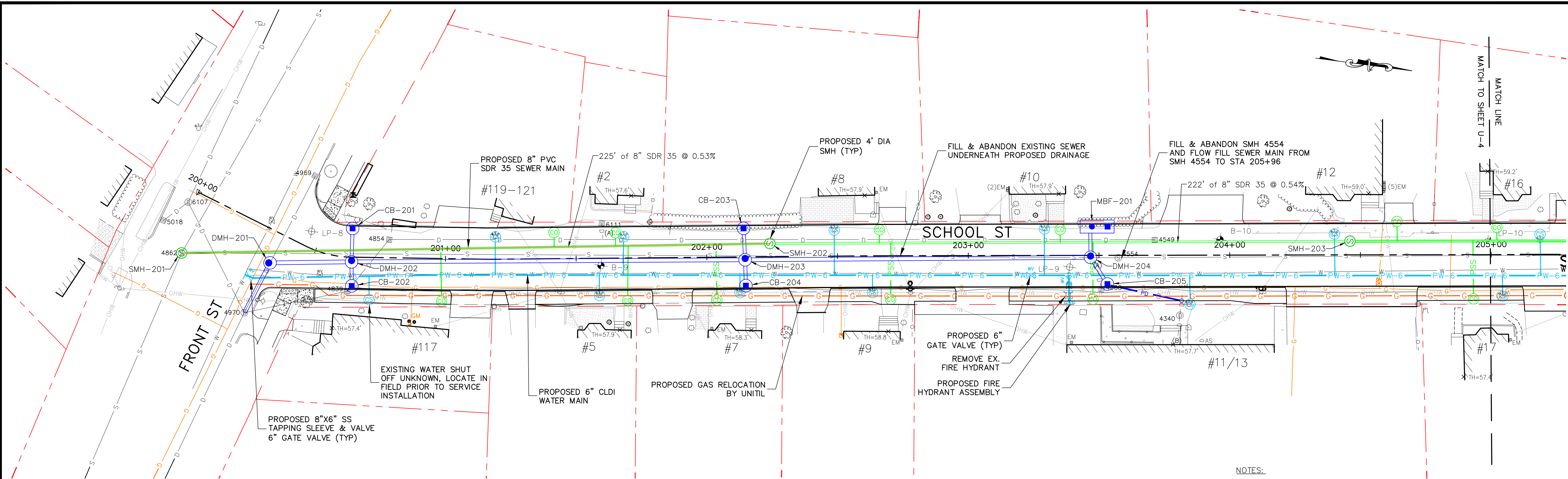
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PROPOSED LEGEND

- PROPOSED WATER VALVE
- PROPOSED WATER CURB STOP
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- PROPOSED 8" PVC SEWER MAIN
- PROPOSED 6" PVC SEWER SERVICE

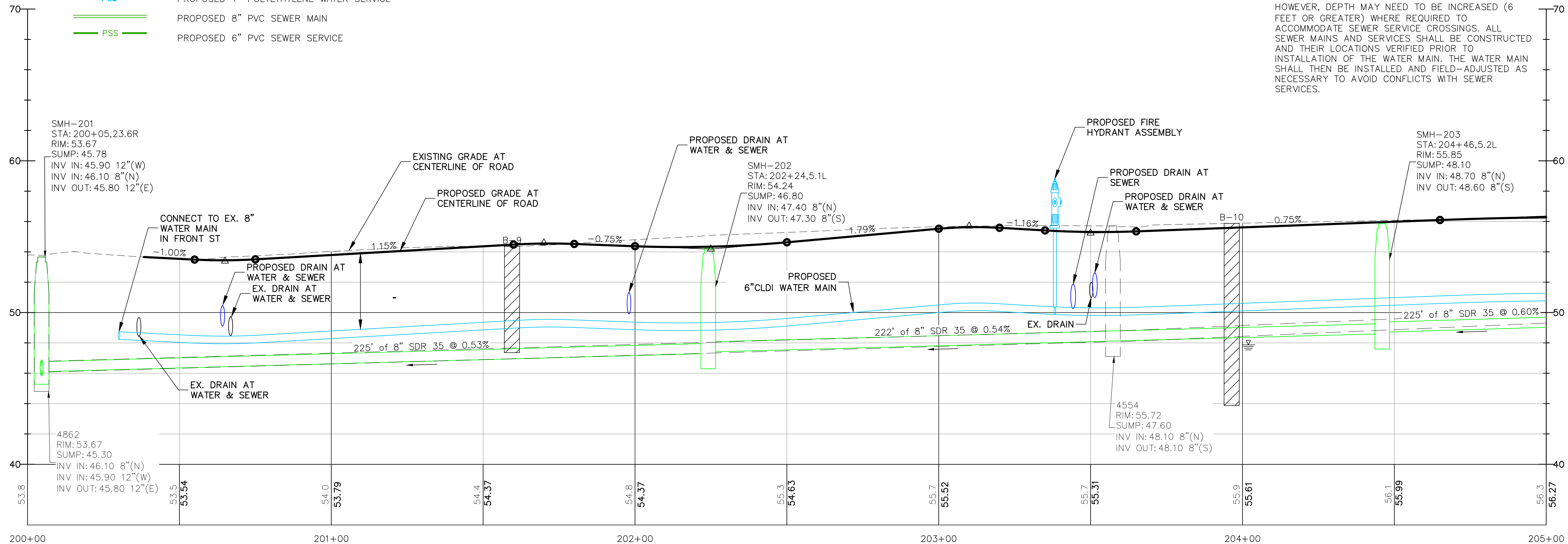


CMA ENGINEERS Civil/Environmental/Structural		Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/541-4223		cmaengineers.com	
7/2/2026		Issued for Construction		revision	
1		no.		date	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Proposed Utility Plan Union St STA 105+25 to STA 111+00	
drawing no. U-2		sheet: 19 of 49		by	



PROPOSED LEGEND

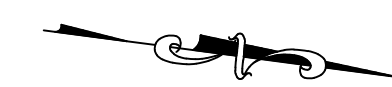
- PROPOSED WATER VALVE
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CMA ENGINEERS Civil/Environmental/Structural		Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/541-4223		c m a e n g i n e e r s . c o m	
designed by: CFCWAB		drawn by: FDG/CLM		approved by: PAC	
date: July 2026		project no: 1350		checked by: PAC	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Proposed Utility Plans School St STA 200+00 to STA 205+00	
drawing no: U-3		sheet: 20 of 49		revision: 1 no. 1 date: 7/2/26 by: PAC	



- ### PROPOSED LEGEND



- | | |
|----------------------------|--------------------------------|
| date:
<i>July 2026</i> | designed by:
<i>CFC/MAB</i> |
| project no:
<i>1350</i> | drawn by:
<i>FDG/CLM</i> |
| checked by:
<i>PAC</i> | approved by:
<i>PAC</i> |
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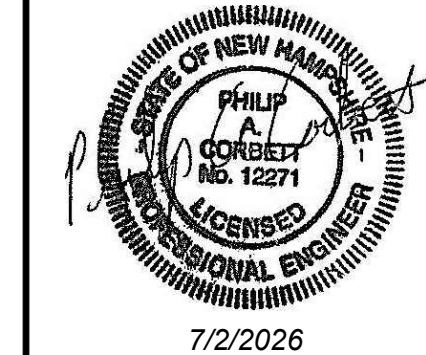
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U-4

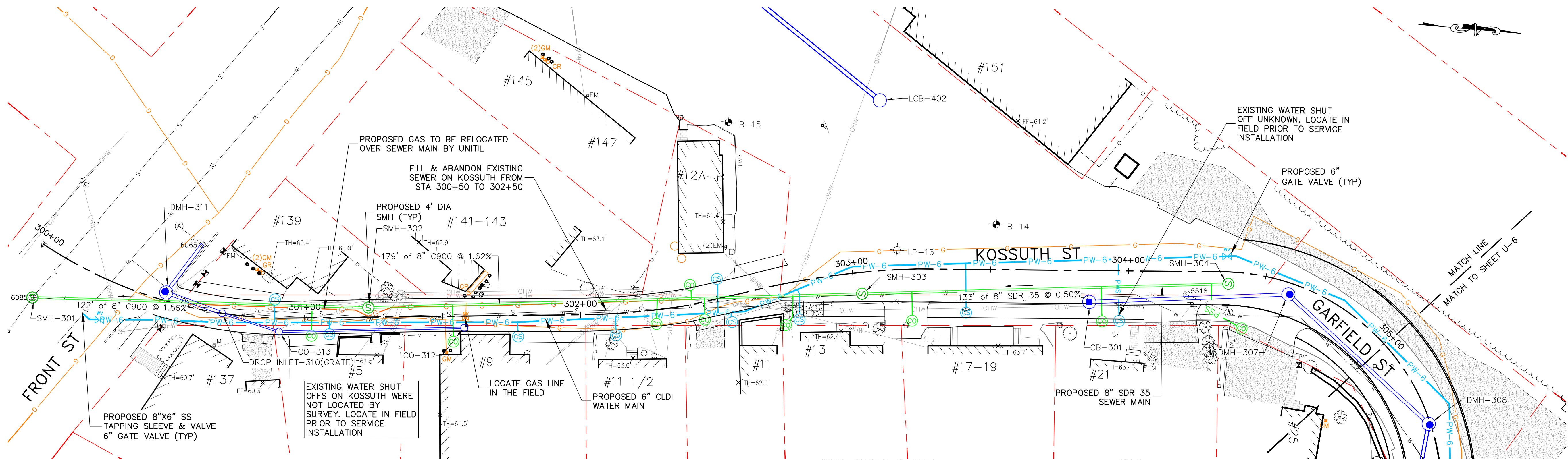
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Manchester, NH • 603/627-0708
Portland, ME • 207/641-4223

c m a e n g i n e e r s . c o m





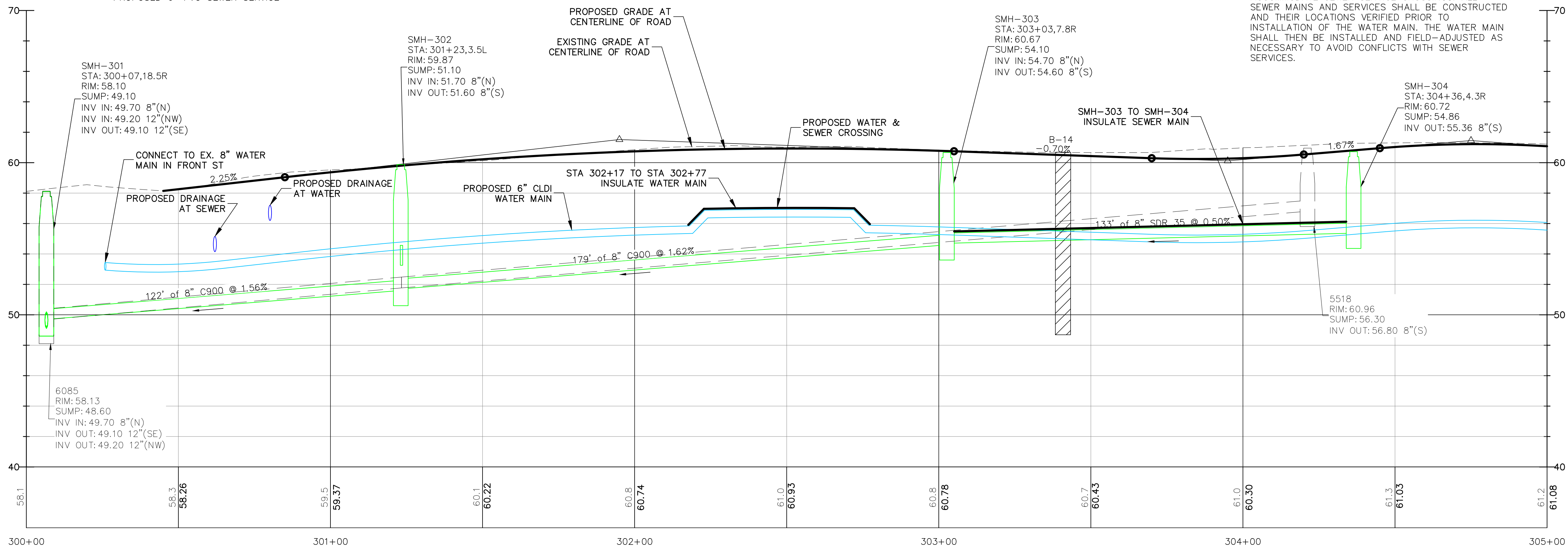
- PROPOSED LEGEND**
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UTILITY SEQUENCING NOTES:

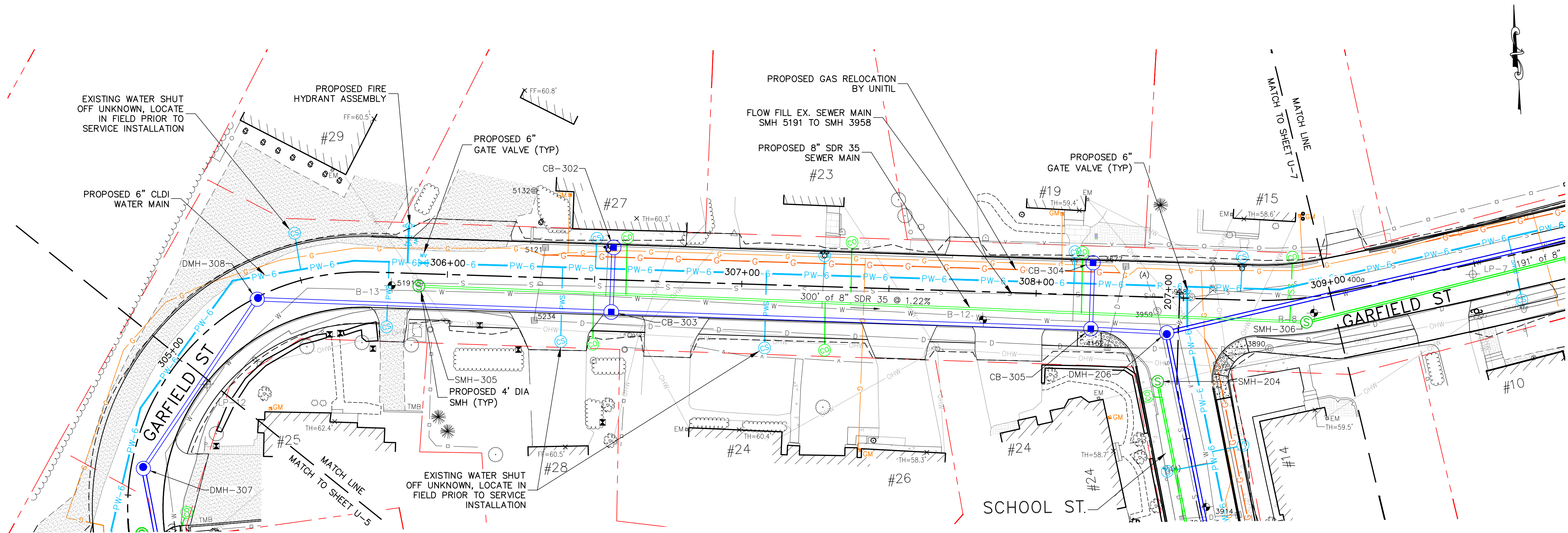
- KOSSUTH STREET IS NARROW AND REQUIRES SEQUENCING OF UTILITIES AND COORDINATION WITH UNITIL FOR GAS MAIN RELOCATION.
- THE INTENT IS FOR THE CONTRACTOR TO INSTALL THE SEWER MAIN FIRST, FOLLOWED BY GAS MAIN RELOCATION BY UNITIL. COORDINATION WITH UNITIL IS THE CONTRACTOR'S RESPONSIBILITY.
- ONCE THE GAS MAIN IS RELOCATED, THE CONTRACTOR CAN INSTALL THE WATER MAIN. THE INTENT IS FOR THE CONTRACTOR TO INSTALL THE DRAINAGE LAST.

NOTES:

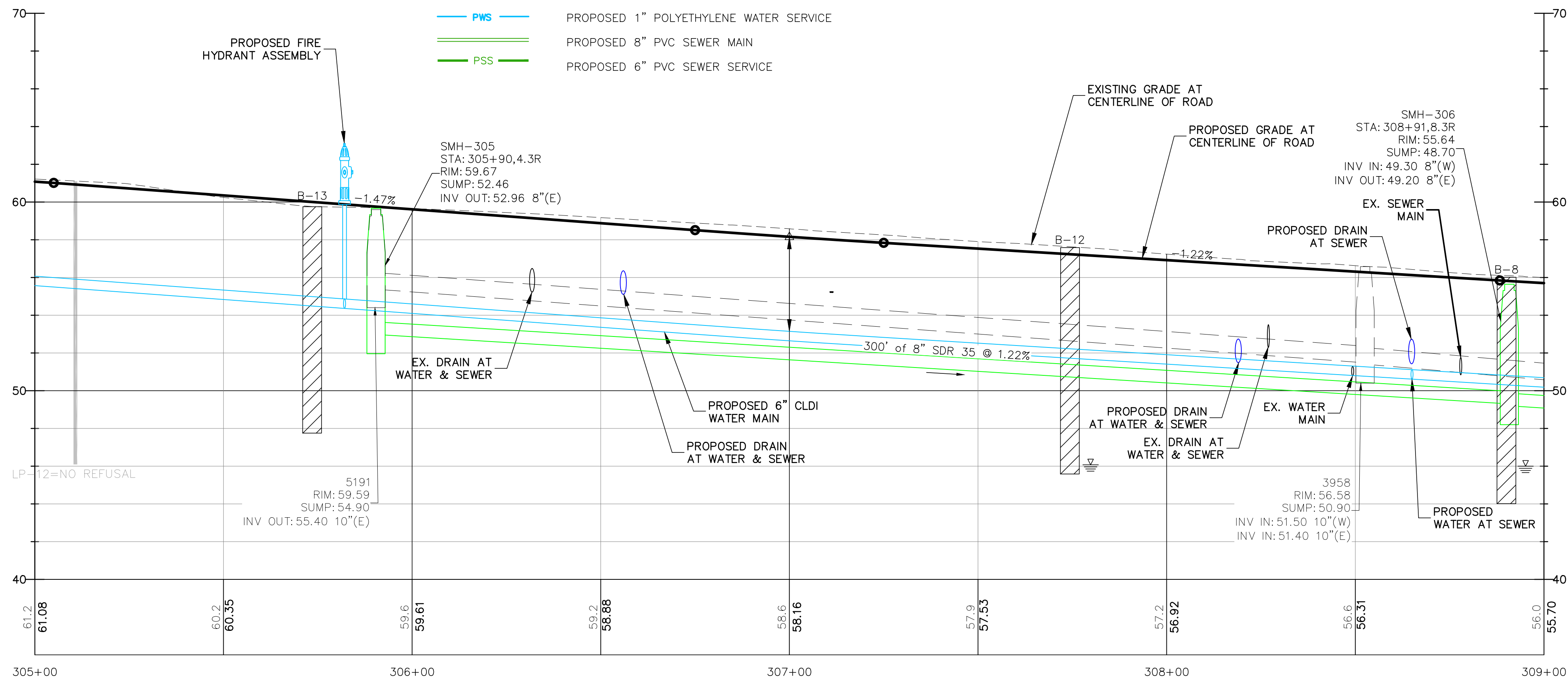
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CMA ENGINEERS Civil/Environmental/Structural		Portsmouth, NH • 603/431-6196		Manchester, NH • 603/627-0708		Portland, ME • 207/541-4223	
7/2/2026		date		1		no.	
Issued for Construction		revision		1		no.	
Town of Exeter, New Hampshire Department of Public Works		School Street Area Utility Improvement Project		Proposed Utility Plan Kossuth St STA 300+00 to STA 305+000		drawing no. U-5	
sheet: 22		of 49		PAC		by	

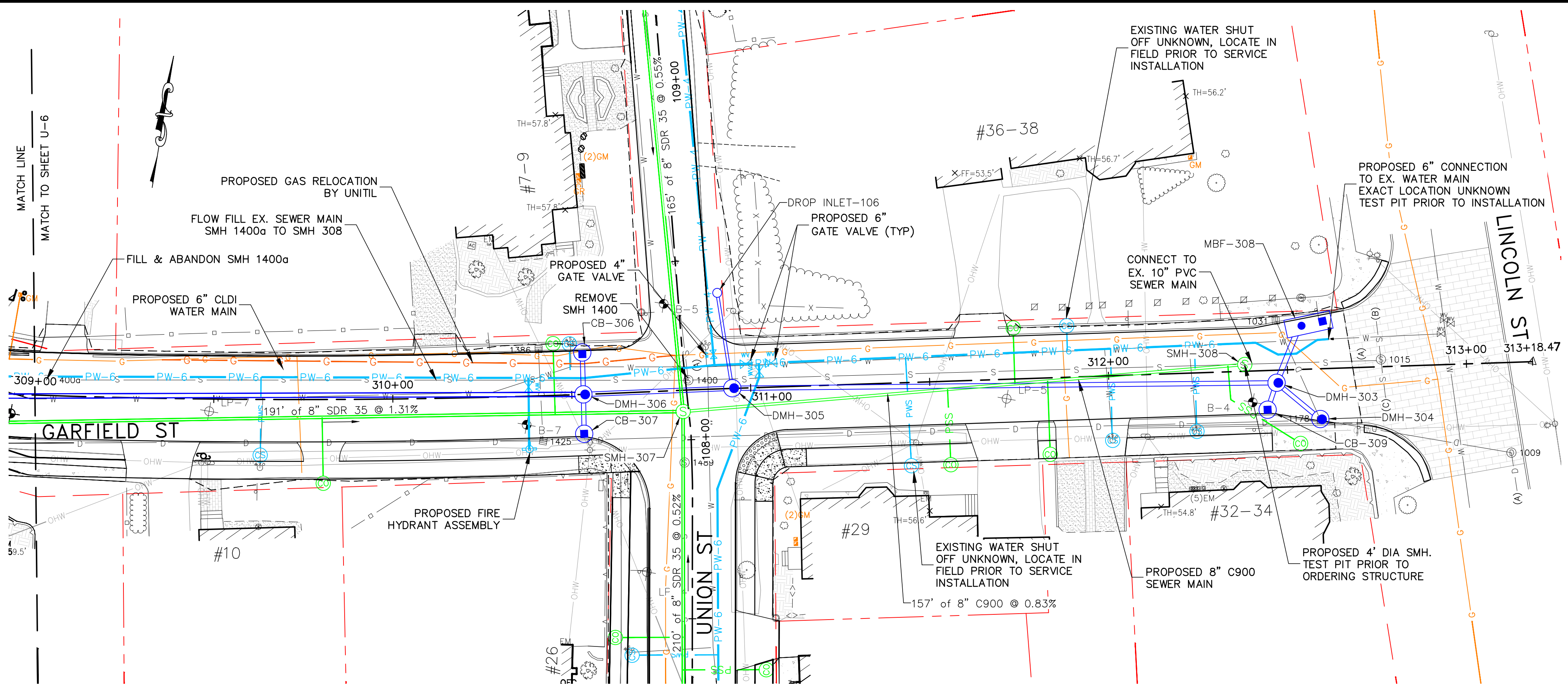


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CMA ENGINEERS Civil/Environmental/Structural		Portsmouth, NH • 603/431-6196 Manchester, NH • 603/627-0708 Portland, ME • 207/541-4223 cmaengineers.com	
7/2/2026		PAC	
1		Issued for Construction	
no.		revision	
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project		Proposed Utility Plans Garfield St STA 305+00 to STA 309+00	
drawing no. U-6		sheet: 23 of 49	

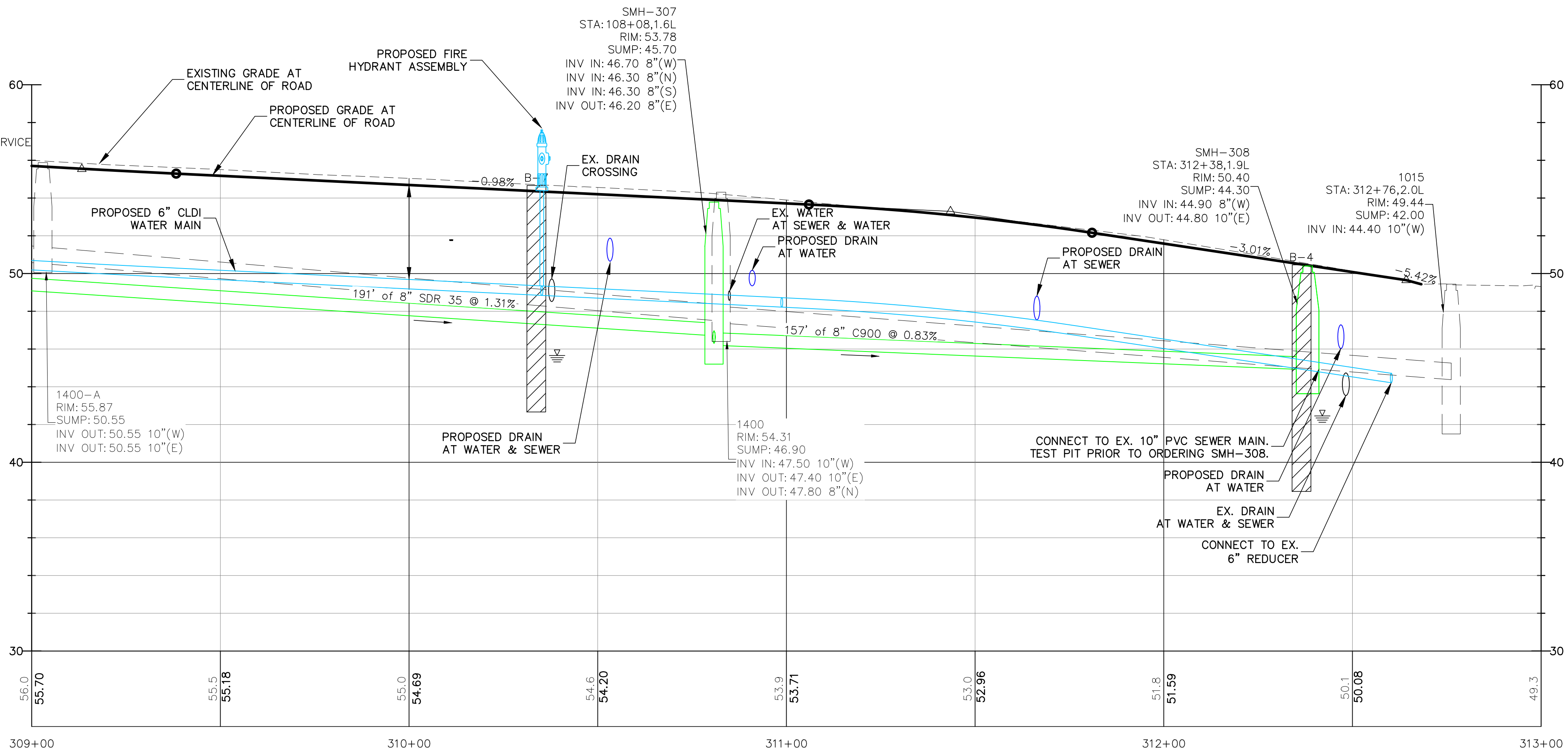


PROPOSED LEGEND

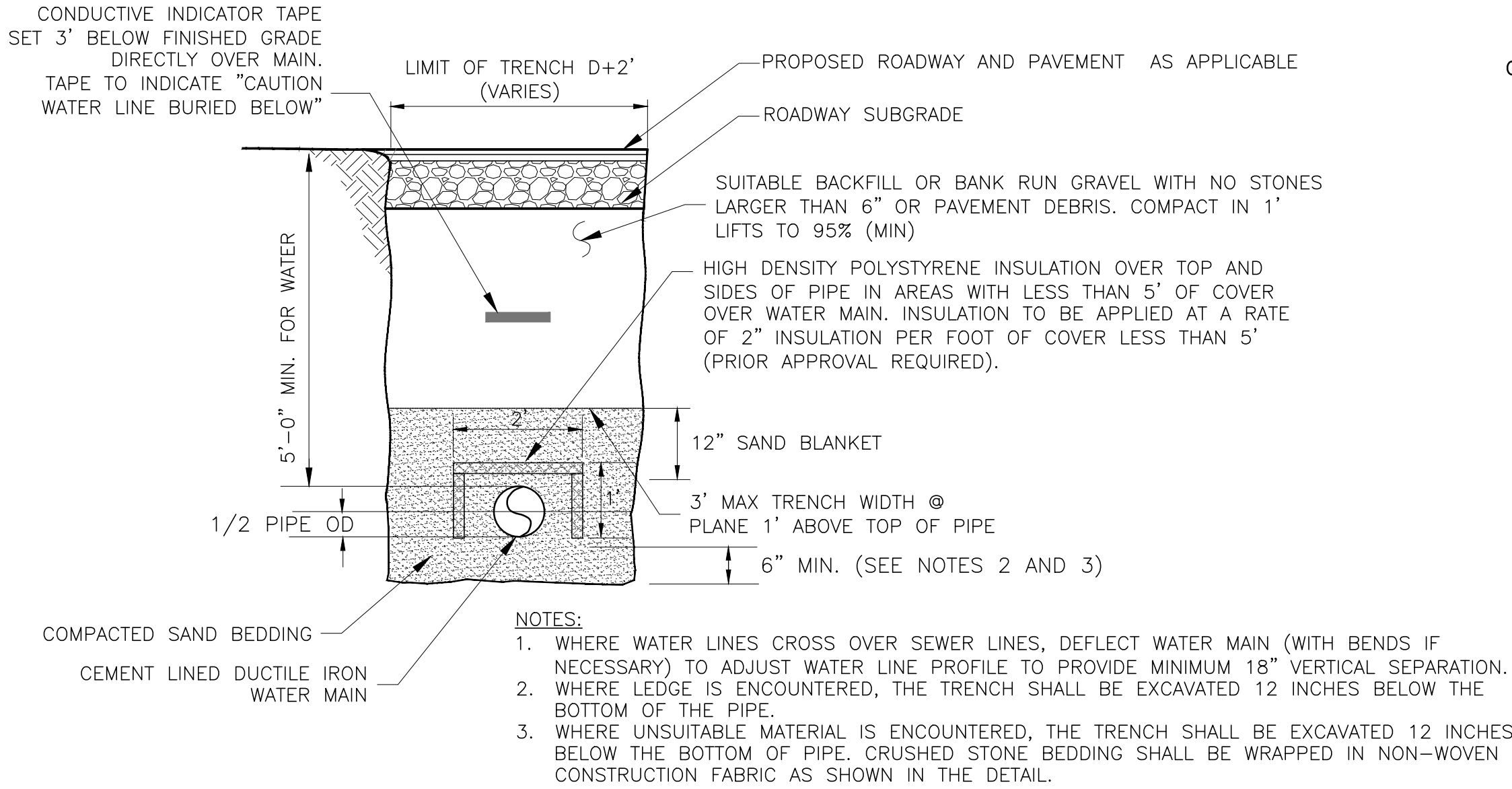
- PROPOSED WATER VALVE
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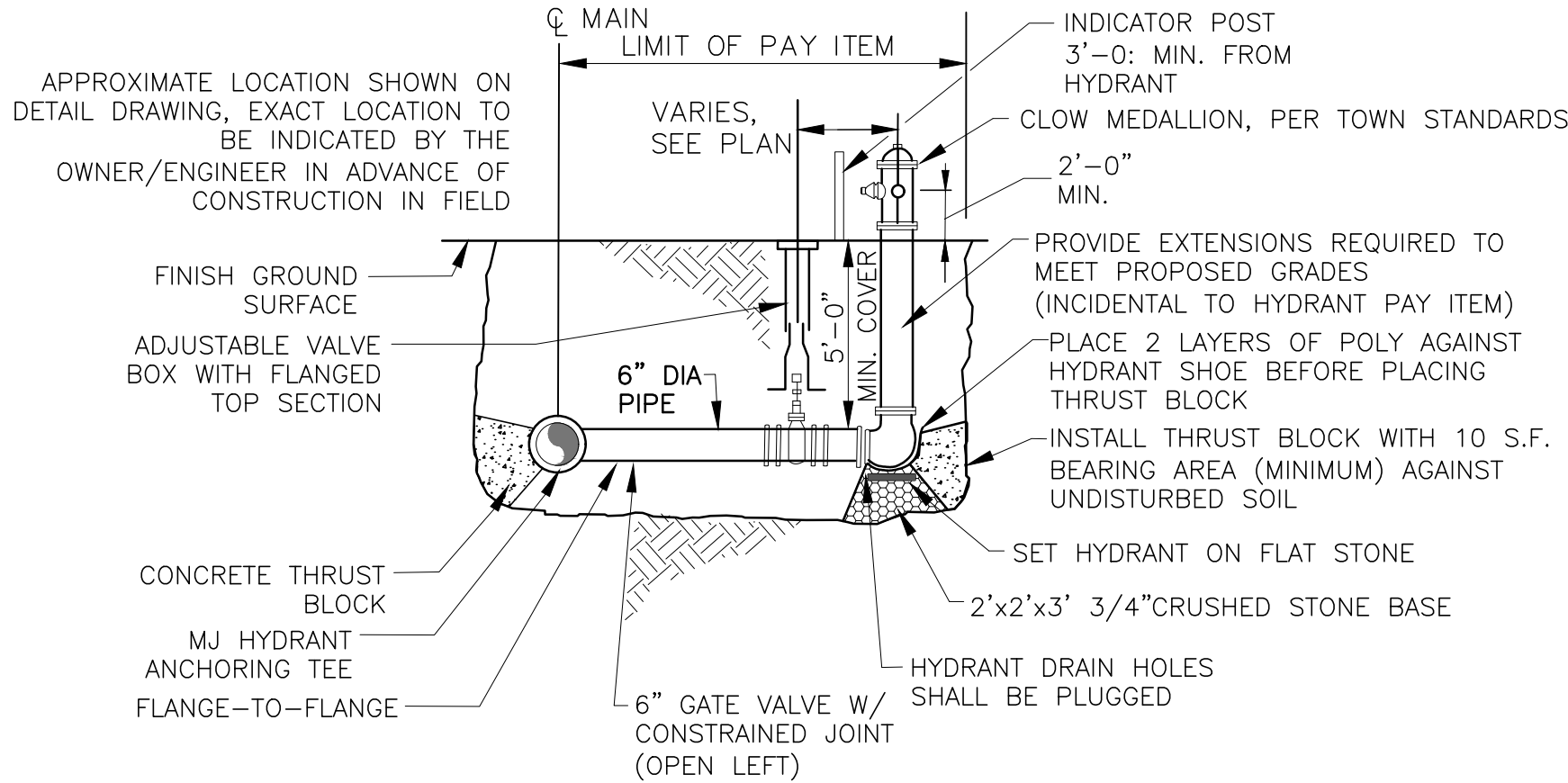


CMA ENGINEERS Civil/Environmental/Structural Portsmouth, NH • 603/431-6196 Manchester, NH • 603/627-0708 Portland, ME • 207/541-4223 cmaengineers.com		1	Issued for Construction	7/2/26	PAC
Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Proposed Utility Plans Garfield St STA 309+00 to STA 313+00		no.	revision	date	by
drawing no. U-7		sheet:	24	of	49



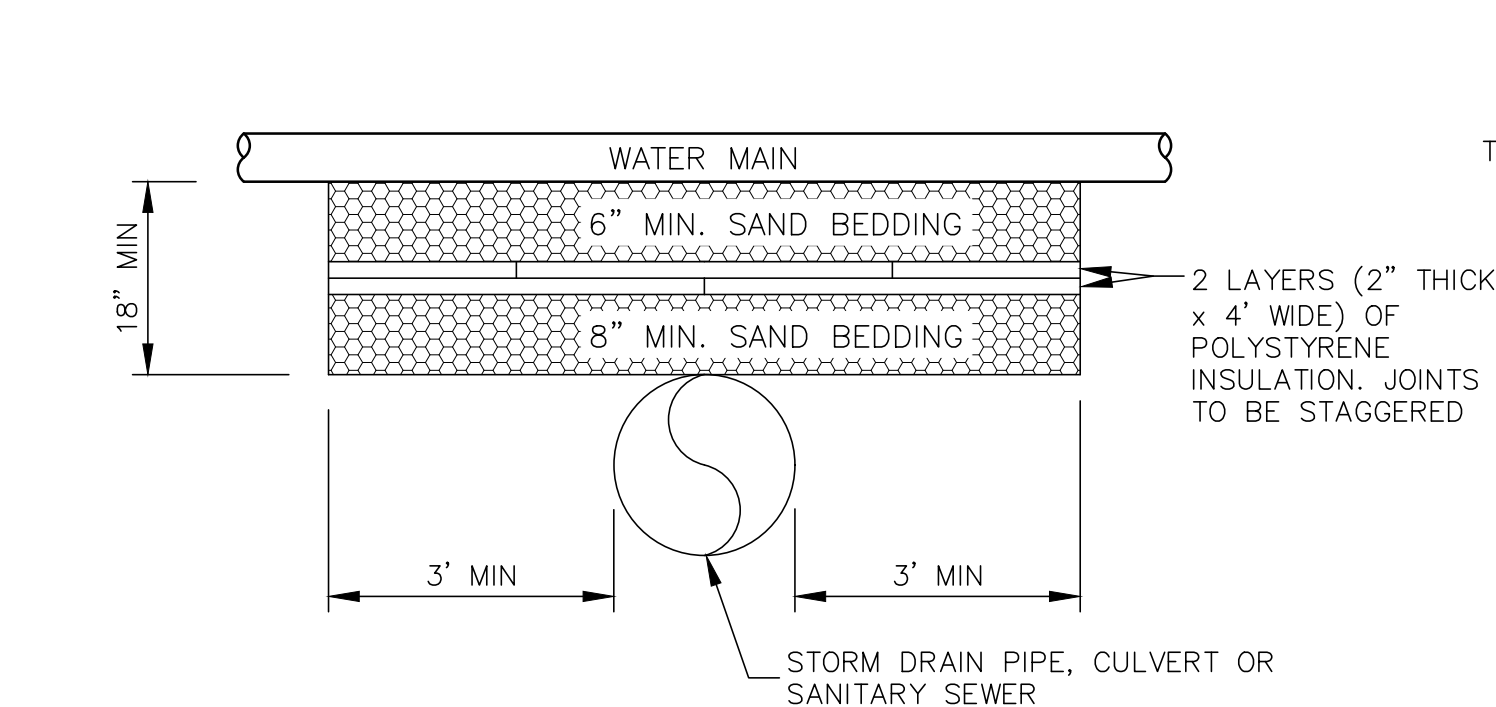
Typical Water Main Trench

Not to Scale



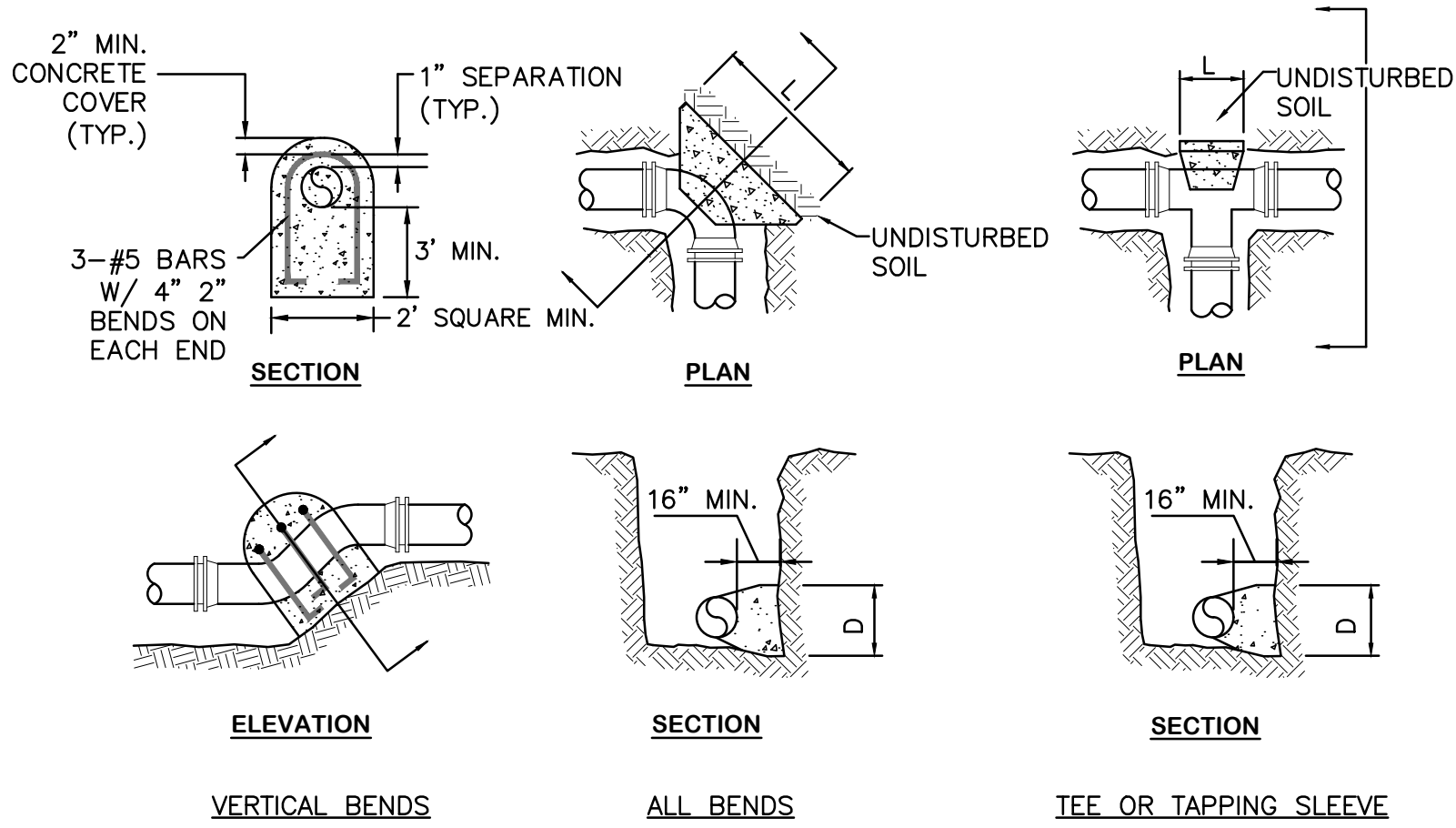
Fire Hydrant Assembly

Not to Scale



WATER MAIN INSTALLATION NOTES:

- INSULATION TO BE USED WHERE VERTICAL PIPE SEPARATION IS 24" OR LESS.
- INSTALL VERTICAL MJ BENDS WITH RESTRAINED JOINT FITTINGS OR SWEEP PIPE WITHIN THE SPECIFICATION LIMITS IF NECESSARY TO ADJUST WATER MAIN PROFILE TO GAIN MINIMUM VERTICAL SEPARATION ABOVE SEWER.
- 2" OF INSULATION TO BE USED AROUND WATER SERVICE CONNECTIONS WHERE PIPE CROSSINGS OCCUR.
- WHERE WATER MAIN CROSSES SEWER AT 45° TO 90° PROVIDE MAXIMUM SPACING OF PIPE JOINTS FROM CROSSING LOCATION FOR BOTH WATER MAIN AND SEWER PIPE.
- IF LESS THAN 5' OF COVER, SEE INSULATION NOTE IN THE "TYPICAL WATER MAIN TRENCH DETAIL", THIS SHEET.



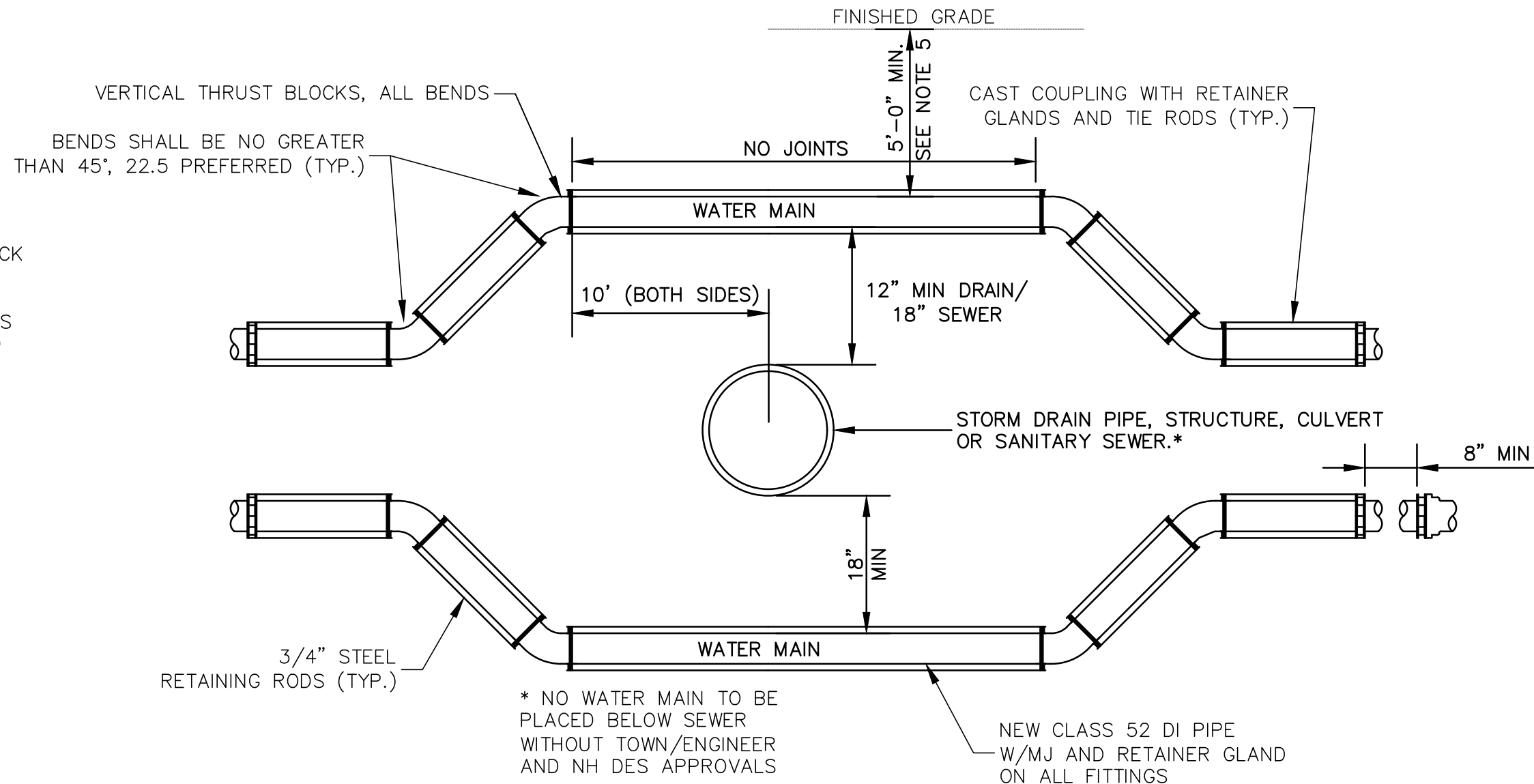
Nominal Dia. (in)	PIPE SIZE							
	4	6	8	10	12	16	20	24
Tees, Caps, Plugs, & Tapping Sleeves	1.05	2.32	4.15	6.37	9.15	16.23	25.44	36.58
90 Degree Bends	1.48	3.29	5.86	9.01	12.93	22.96	35.97	51.73
45 Degree Bends	0.80	1.78	3.17	4.88	7.00	12.42	19.47	28.00
22-1/2 Degree Bends	0.41	0.91	1.62	2.49	3.57	6.33	9.92	14.27
11-1/4 Degree Bends	0.21	0.46	0.81	1.25	1.79	3.18	4.99	7.17
System Pressure:		100psi						
Safety Factor:		1.5						
Soil Bearing Capacity:		2,000psf						

NOTES:

- THRUST BLOCKS SHALL BE PRECAST CONCRETE, EXCEPT THRUST BLOCKS FOR VERTICAL BENDS CAN BE CIP CONCRETE.
- THE MINIMUM BEARING AREAS SHOWN ABOVE ARE BASED ON A SYSTEM PRESSURE OF 100 PSI. IF THE SYSTEM PRESSURE IS ABOVE 100 PSI, INCREASE THE NOTED AREAS PROPORTIONAL TO THE ACTUAL SYSTEM PRESSURE. FOR EXAMPLE, IF THE ACTUAL SYSTEM PRESSURE IS 160 PSI, MULTIPLY THE ABOVE VALUES BY 160%.
- PLACE THRUST BLOCKS SUCH THAT THE LENGTH (L) OF THE BLOCK IS APPROXIMATELY TWICE AS LONG AS THE DEPTH (D).
- PLACE THRUST BLOCKS AGAINST UNDISTURBED SOIL.
- PLACE THRUST BLOCKS ALONG THE FULL LENGTH OF THE FITTING TO MAXIMIZE BEARING AREA.
- PLACE 2 LAYERS OF POLYETHYLENE OR ROOFING PAPER AROUND FITTINGS PRIOR TO PLACEMENT OF THE CONCRETE TO CREATE A BOND BREAK & PROTECT THE BOLTS.
- PLACE A SOLID CONCRETE BLOCK BETWEEN CAP/PLUGS AND THRUST BLOCKS.
- PLACE A 12" LONG STEEL HORSESHOE-SHAPED PICKUP HOOK IN ALL PLUG AND CAP THRUST BLOCKS. DIAMETER OF HOOK SHALL BE A MINIMUM OF 5/8".
- USE OF THRUST BLOCKS DOES NOT ELIMINATE THE REQUIREMENT OF RETAINER GLANDS.
- THRUST BLOCKS ARE REQUIRED ON ALL FITTINGS.
- COAT ALL THREADED RODS, NUTS, AND BOLTS WITH BITUMINOUS PAINT.
- PLACE ANTI-SEIZE LUBRICANT ON ALL BOLTS.

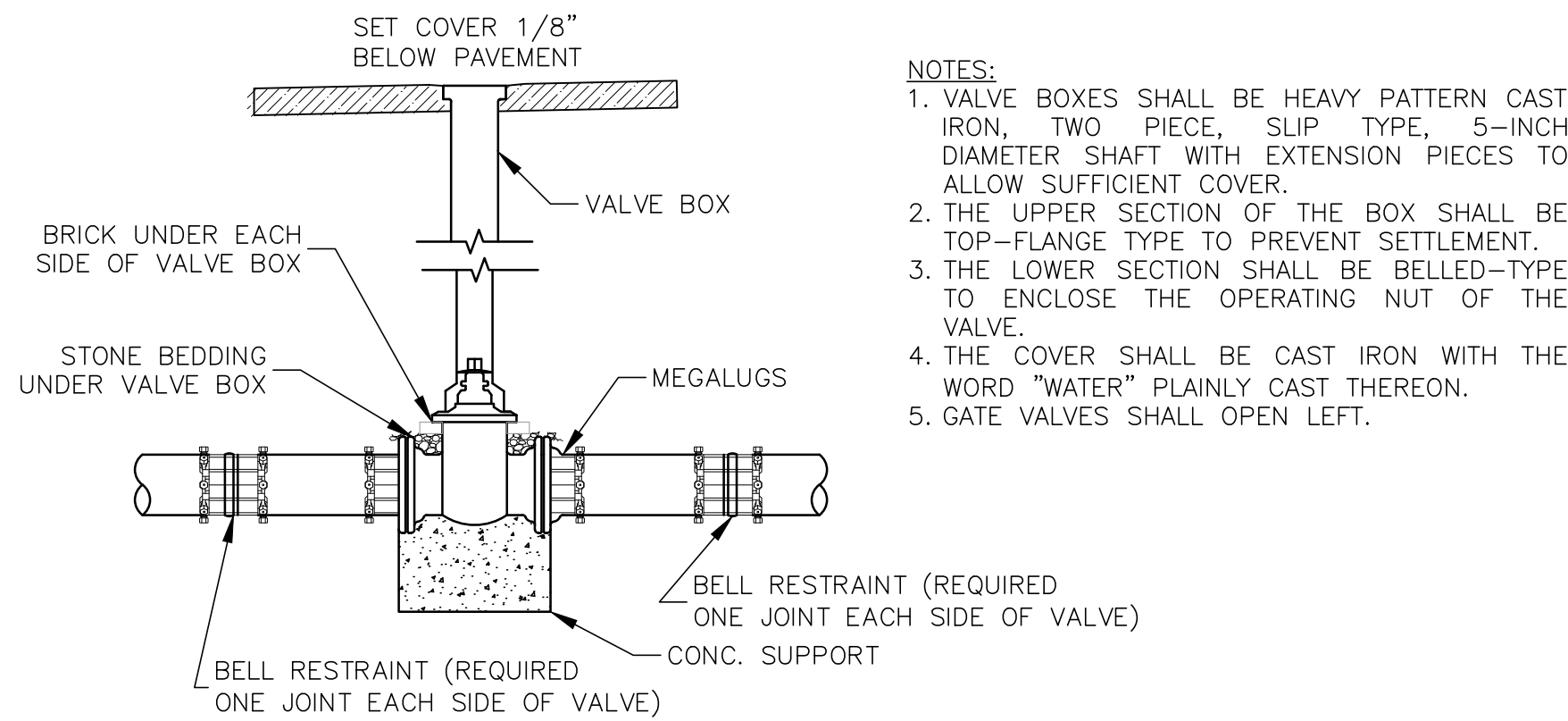
Thrust Blocks

Not to Scale



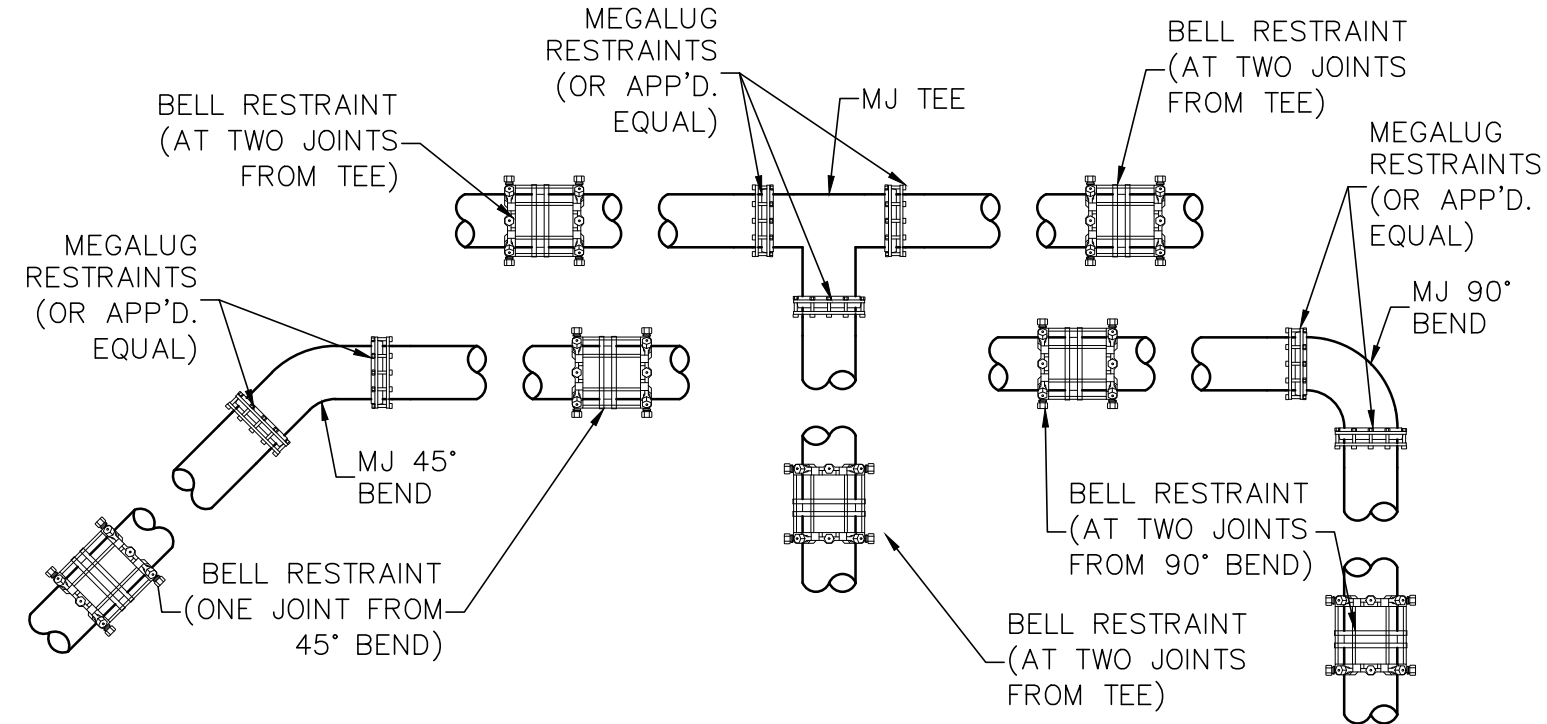
Water/Utility Crossing

Not to Scale



Valve & Valve Box Detail

Not to Scale



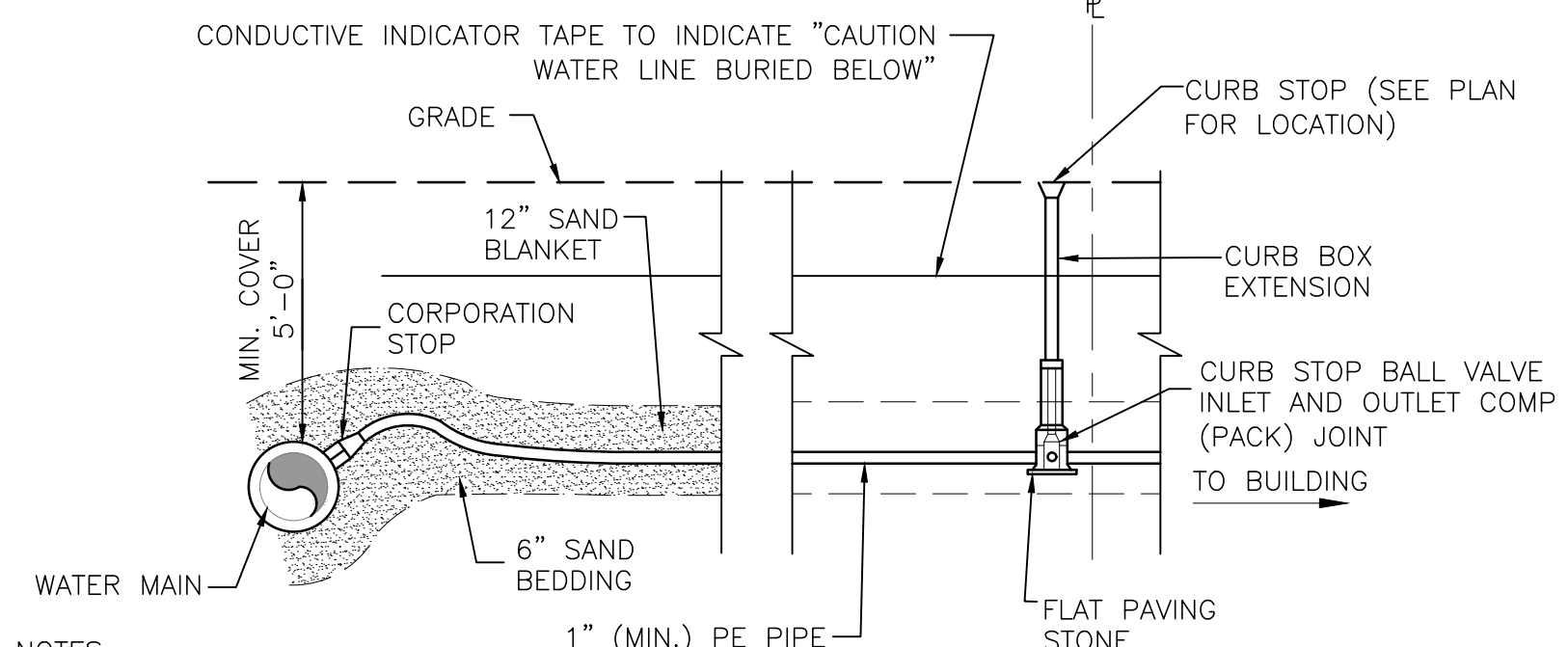
NOTES:

- ALL BENDS AND TEES SHALL BE DUCTILE IRON FITTINGS.
- JOINT RESTRAINT IS REQUIRED AT ALL FITTINGS PER THE ABOVE TABLE.

VALVE	RESTRAINED JOINTS
IN LINE VALVES	BELL RESTRT'S REQUIRED 1 JOINT EACH SIDE/VALVE
FITTING	RESTRAINED JOINTS
22.5° BEND	1 EACH SIDE
45° BEND	1 EACH SIDE
90° BEND	2 EACH SIDE
TEE	1 EA SIDE/RUN 2 ON BRANCH

Joint Restraint Detail

Not to Scale

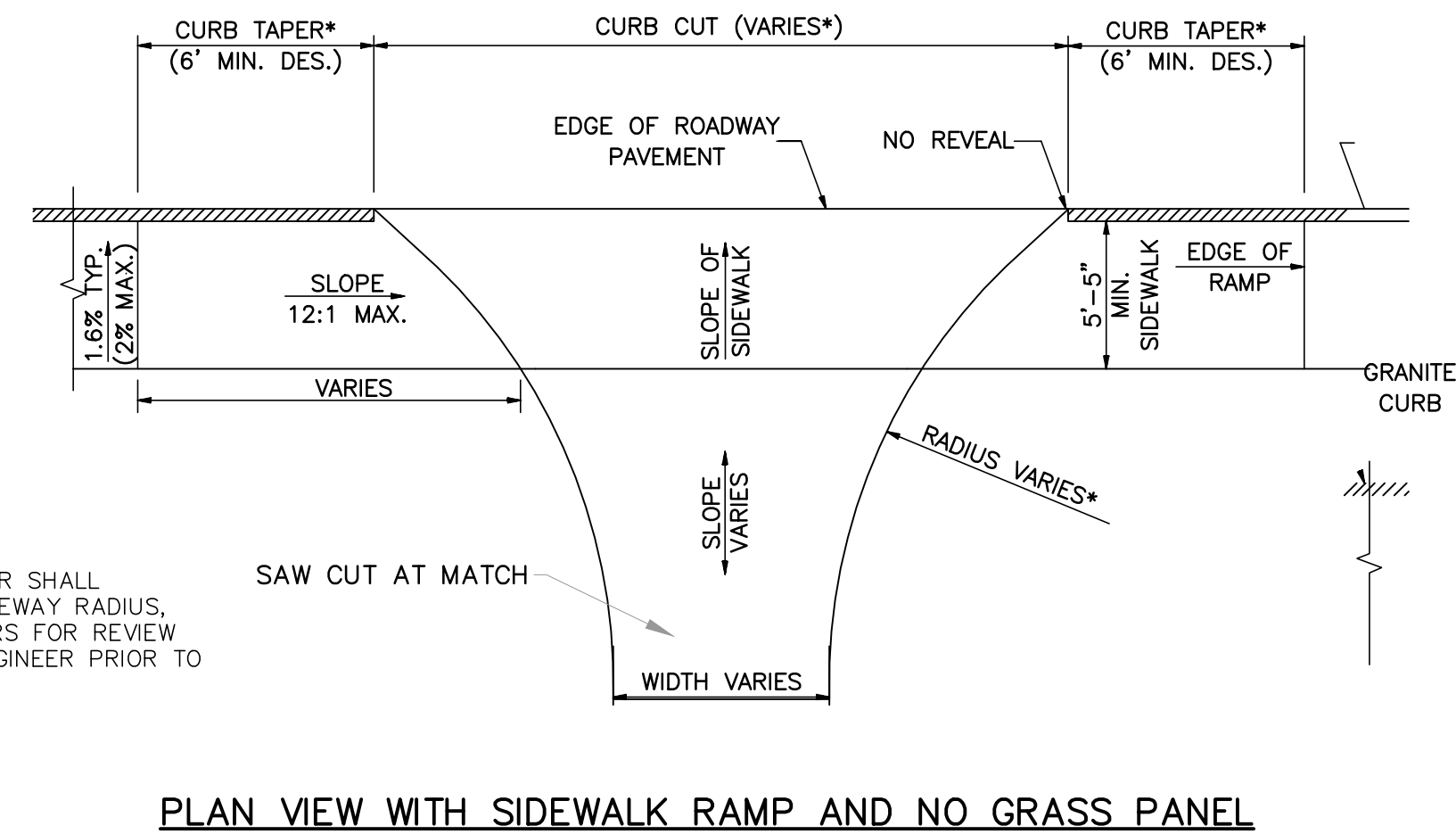
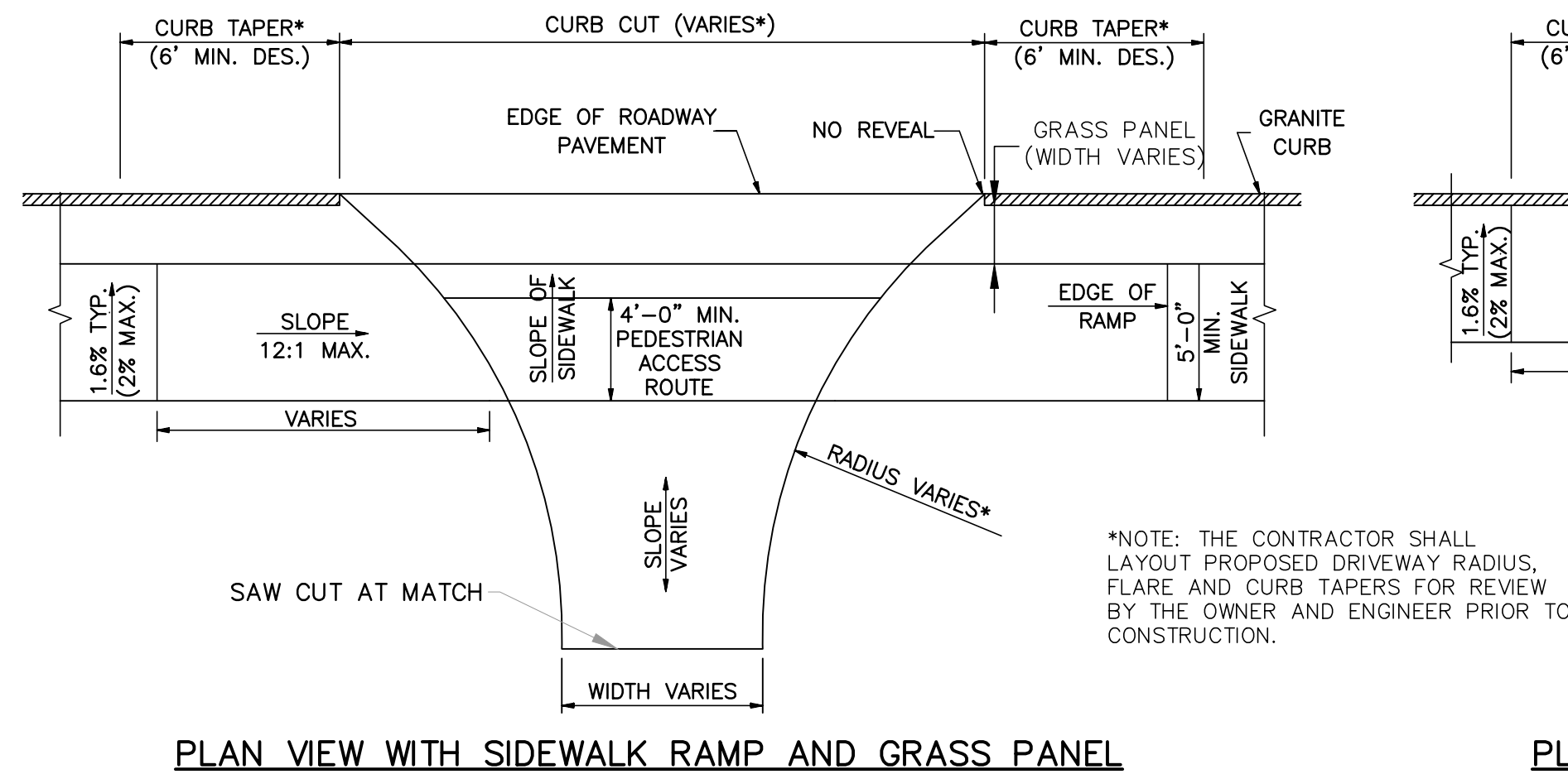
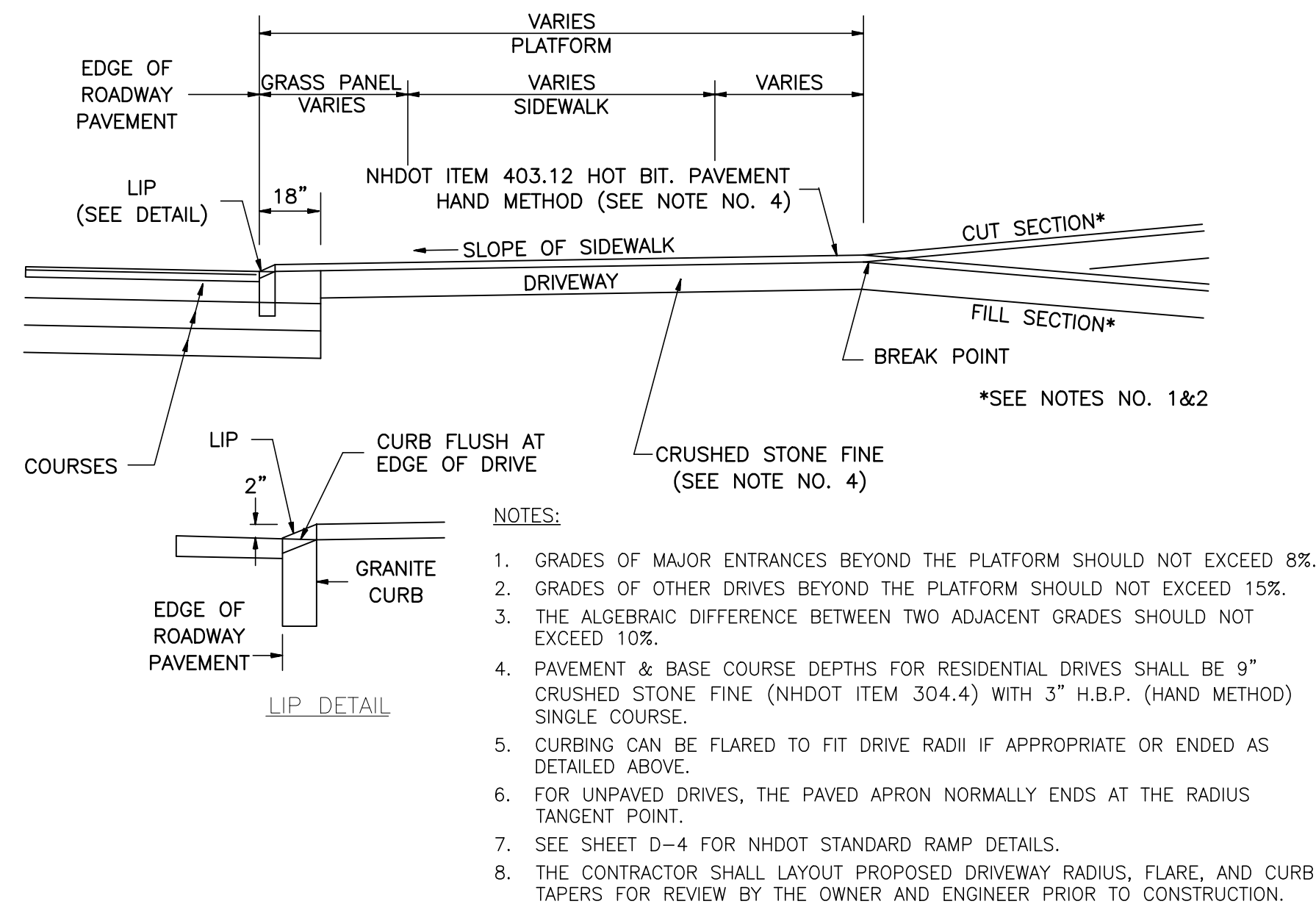


NOTES:

- SERVICE SIZE SHALL BE EQUAL TO EXISTING, OR 1"Ø MINIMUM, WHICHEVER IS LARGER.
- PROVIDE NEW LINE USING CONTINUOUS LENGTHS OF POLYETHYLENE PIPE. NO COUPLING ALLOWED IN ROADWAY WITHOUT APPROVAL OF ENGINEER.
- TAPS TO BE MADE AT APPROXIMATELY 2:00 AND 10:00.
- PROVIDE FOR SERVICE LINE CONTRACTION AND EXPANSION BY INSTALLING "S" IN SERVICE LINE NEAR MAIN.
- 2" RIGID FOAM INSULATION REQUIRED OVER SECTIONS OF SERVICE PIPES WITH LESS THAN 4' OF COVER.
- REMOVE EXISTING CURB STOP AND REPLACE.
- CONNECT CURB STOP TO EXISTING SERVICE LINE AT PROPERTY LINE, BACK SIDE OF SIDEWALK, OR AT LOCATION APPROVED BY THE ENGINEER AFTER PRESSURE TESTING AND DISINFECTION.
- SERVICE CONNECTIONS OF 1"Ø ON A 4"Ø MAIN OR 1-1/4"Ø AND LARGER ON A 6"Ø MAIN SHALL USE A SERVICE SADDLE.
- CONTRACTOR SHALL COORDINATE SERVICE INSTALLATIONS WITH HOMEOWNERS TO ALLOW ADEQUATE ADVANCED NOTICE OF WATER SERVICE INTERRUPTIONS.
- CONTRACTOR SHALL NOTIFY THE TOWN PUBLIC WORKS IMMEDIATELY IN THE EVENT GALVANIZED STEEL PIPE IS ENCOUNTERED. CONTRACTOR SHALL TAKE PHOTOS OF THE CURB STOP CLEARLY IDENTIFYING THE PIPES THAT ARE GALVANIZED STEEL.
- CURB BOX TOP INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - IN GRASS - STANDARD HAYES TOP.
 - IN SIDEWALK, ROADWAY, AND DRIVEWAYS - OPERATING PIPE SHALL EXTEND TO APPROXIMATELY 2"-3" BELOW FINISHED GRADE AND COVERED WITH A PLASTIC CAP. A BUFFALO BOX TOP (24" DEPTH) SHALL BE PLACED OVER THE OPERATING PIPE AND BROUGHT TO FINISHED GRADE.
- TRACER WIRE ON PRIVATE PROPERTY SIDE SHALL BE BROUGHT TO GRADE AND LEFT IN BOX WHEN PRIVATE SIDE IS PLASTIC. TRACER WIRE SHALL NOT BE PLACED IN THE OPERATING ROD PIPE.
- ROD ASSEMBLY: OPERATING ROD AND COTTER PINS SHALL BE STAINLESS STEEL.

Water Service Installation

Not to Scale

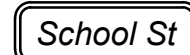


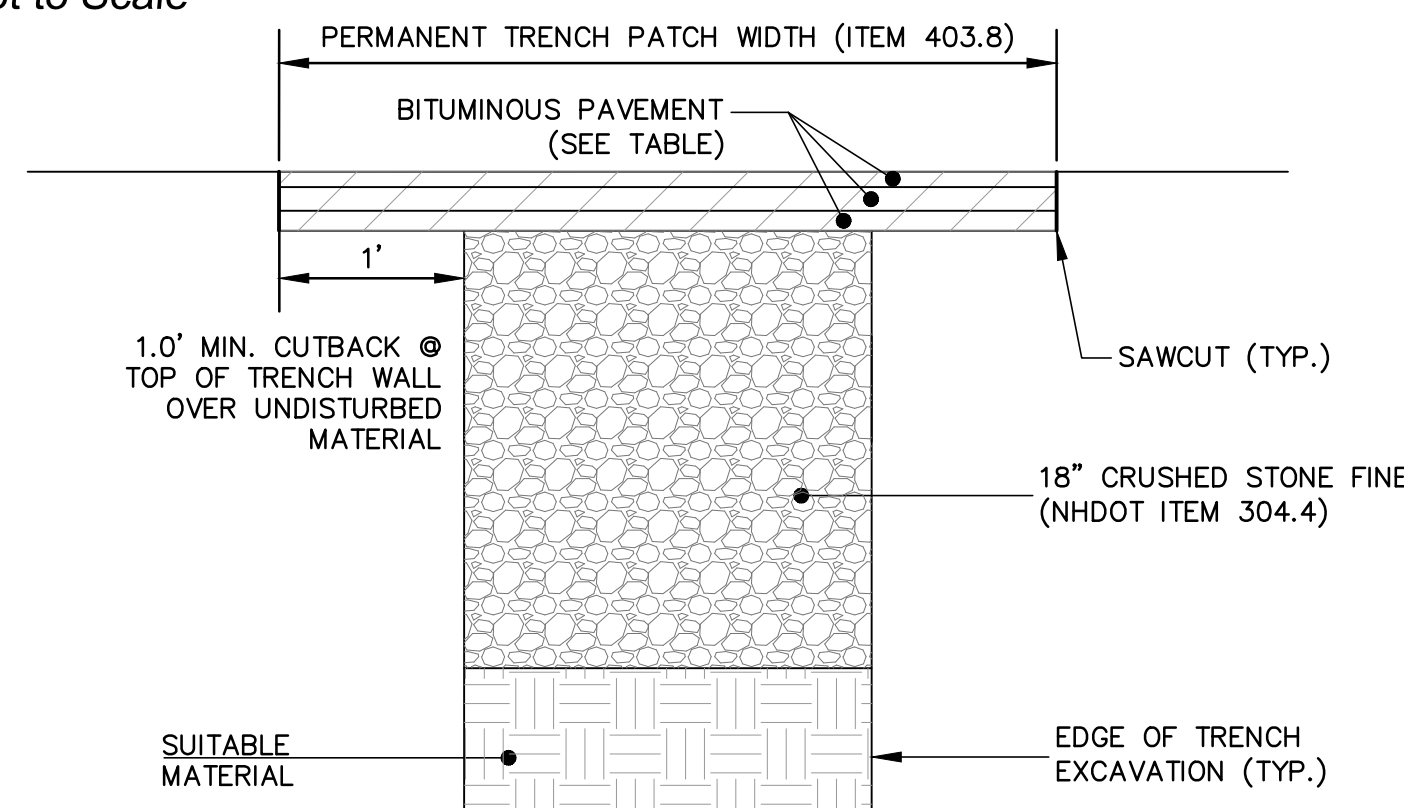
Driveway Transitions

Not to Scale

SIGNING NOTES:

1. EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED LAYOUT SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK PAID UNDER CONTRACT ITEMS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND RELOCATION OF ALL ROADWAY SIGNS, WHICH IS SUBSIDIARY TO THE SITE WORK ITEM. ANY SIGNS DAMAGED DURING THE COMPLETION OF WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL ADHERE TO THE REFLECTIVITY REQUIREMENTS IN THE 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
4. REFER TO THE 2016 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
5. REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.
6. THE MINIMUM SIGN HEIGHT FOR A ROAD SIGN SHALL BE 7'-FEET WHERE PEDESTRIANS ARE PRESENT. ALL OTHER SIGN HEIGHTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.
7. ALL WARNING SIGNS SHALL HAVE TYPE IV BACKGROUND SHEETING UNLESS OTHERWISE SPECIFIED.
8. ALL EXISTING SIGNS THAT ARE REMOVED ARE TO BE STORED BY THE CONTRACTOR AND RESET AS DIRECTED. ANY EXISTING SIGNS TO BE RESET THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS ARE TO BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE TOWN.
9. WHERE NEEDED, SIGNS POSTS SHALL BE U-CHANNEL, DIRECT BURIED, SINGLE POST.

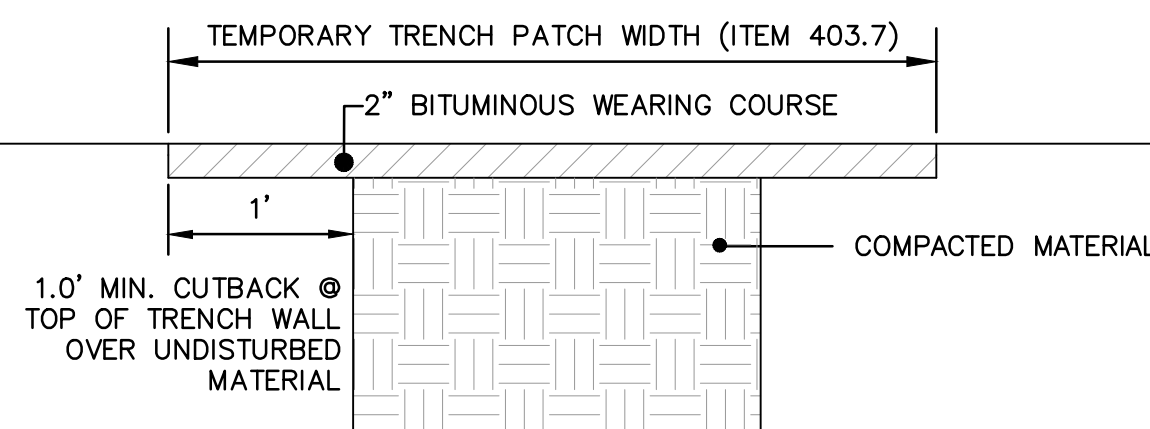
SIGN TABLE												
IDENT #	SIGN SIZE		TEXT	TEXT DIMENSIONS			SHIELD SIZE (INCH)	ARROW (INCH)	NUMERAL (INCH)	# SIGNS REQ'D	SIGN AREA (SQ. FT)	
	WIDTH (INCH)	HEIGHT (INCH)		LETTER HEIGHT (INCH)							NOM. AREA	TOTAL AREA
				UC	LC	CAPS						
R1-1	30	30				10C				BASE BID = 3	6.25	18.75
D3-1	42	8		6D	4.5D					BASE BID = 1	2.33	2.33



Permanent Trench Patch

PAVEMENT COURSES:

ROADS	COURSE	MINIMUM LIFT THICKNESS	NOMINAL MAX. AGGREGATE SIZE	GYRATORY COMPACTION EFFORT	MINIMUM BINDER CONTENT
FRONT STREET	BASE	2"	3/4"	50	5.3%
	BASE	3"	3/4"	50	5.3%
	BASE	3"	3/4"	50	5.3%



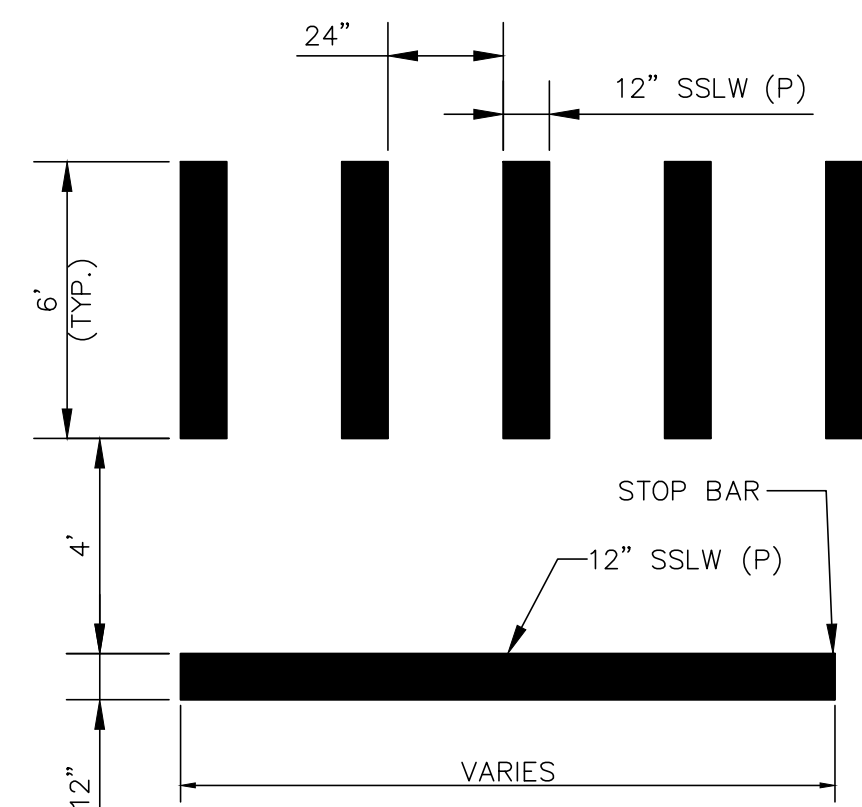
Temporary Trench Patch

PAVEMENT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AREAS DISTURBED BEYOND THE TRENCH PATCH LIMITS.
2. ANY TEMPORARY TRENCH PATCH IS CONSIDERED SACRIFICIAL AND REMOVAL OF TEMPORARY PATCH MATERIALS AND BASE MATERIALS SHALL BE SUBSIDIARY TO PERMANENT TRENCH PATCH REPAIR.
3. ALL PAVEMENT EDGES SHALL BE SAWCUT AND THE CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT (ALL SUBSIDIARY TO PAYMENT FOR TRENCH PATCH REPAIR).

Trench Patch Details

Not to Scale



Continental Block Marking Detail

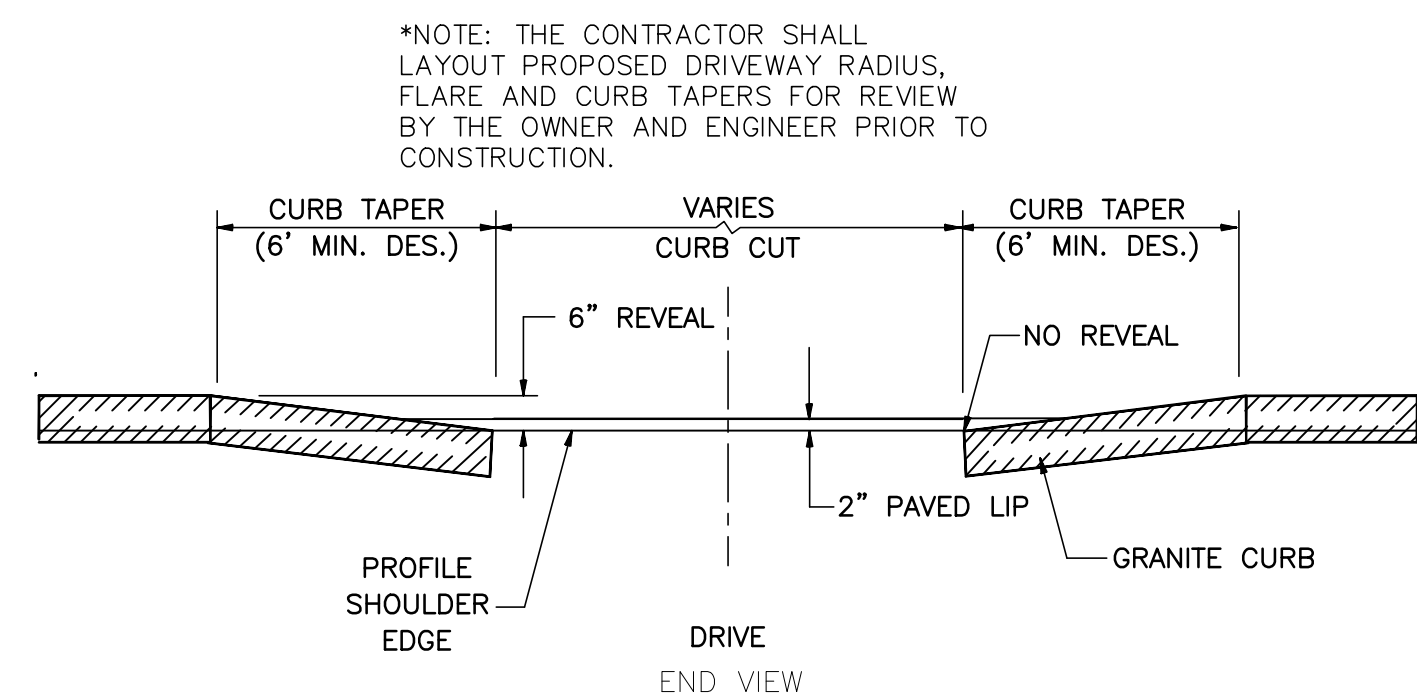
Not to Scale

NOTES:

1. ALL WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST VERSION OF THE MUTCD.
2. MULTI-WORD MESSAGES SHALL READ "UP"; THAT IS, THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.
3. THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A WORD/SYMBOL SHALL PRECEDE THE WORD "ONLY".
4. PERFORMED WORDS AND SYMBOLS SHALL BE PRE-CUT BY THE MANUFACTURER.

NOTE: SPACING FOR THE CONTINENTAL BLOCK MARKINGS SHALL BE UNIFORM FOR EACH INDIVIDUAL CROSSWALK BUT CAN BE MODIFIED TO ELIMINATE CROSSWALK MARKING DIRECTLY IN THE WHEEL PATH OF VEHICLES.

(P) = PAINT



Driveway Detail

Not to Scale

[illegible]

The diagram shows a 4x4 grid of squares. A spiral path is drawn starting from the center (the 2nd square from the left and 2nd from the top) and moving outwards in a clockwise direction. The path starts at the center, moves right, then up, then left, then down, and continues to spiral outwards. The path is labeled 'UP OR BLIND TIONS.' with an arrow pointing to the center square.

Diagram illustrating the cross-section of a manhole structure, showing various components and dimensions:

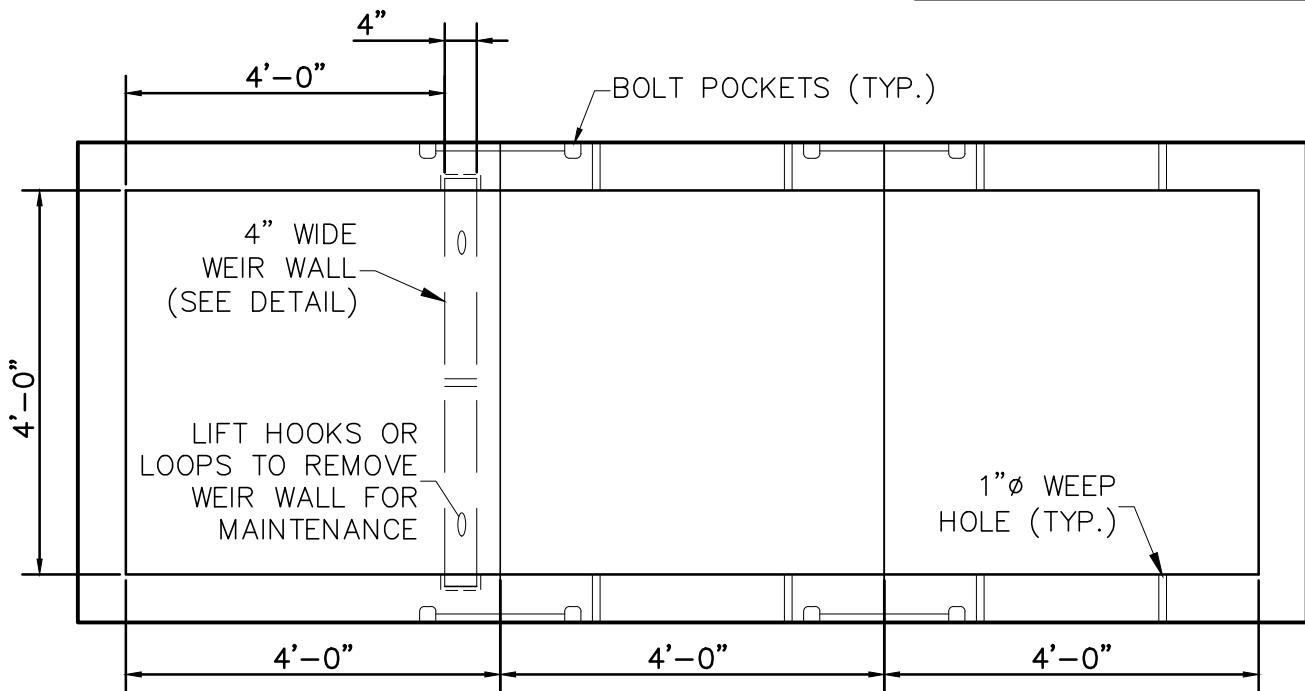
- PROPOSED PAVEMENT**: Indicated at the top left.
- TOP OF GRATE 1/2" BELOW FG**: Indicated at the top right.
- 24" DIA**: Dimension for the diameter of the grate opening.
- CONCENTRIC OR ECCENTRIC CONE SECTION OR ALTERNATE FLAT TOP SLAB**: Dimension for the top section of the manhole.
- 4'**: Dimension for the height of the riser section.
- 5"**: Dimension for the thickness of the riser section.
- HOOD OVER DISCHARGE PIPE (SEE NOTE 11)**: Dimension for the height of the hood.
- HOLE CAST TO PLAN**: Dimension for the diameter of the hole in the base.
- BASE**: Dimension for the thickness of the base.
- 4'-0" SUMP**: Dimension for the height of the sump.
- 5"**: Dimension for the thickness of the base.
- 3'-0"**: Dimension for the height of the base section.
- VARIABLE**: Dimension for the height of the riser section, indicating it can vary.
- MONOLITHIC BASE SECTION**: Dimension for the height of the base section.
- RISER SECTION(S) AS REQUIRED**: Dimension for the height of the riser section.

MIN. 12" LAYER OF 3/4" CRUSHED STONE FINE
(NHDOT ITEM 304.4)

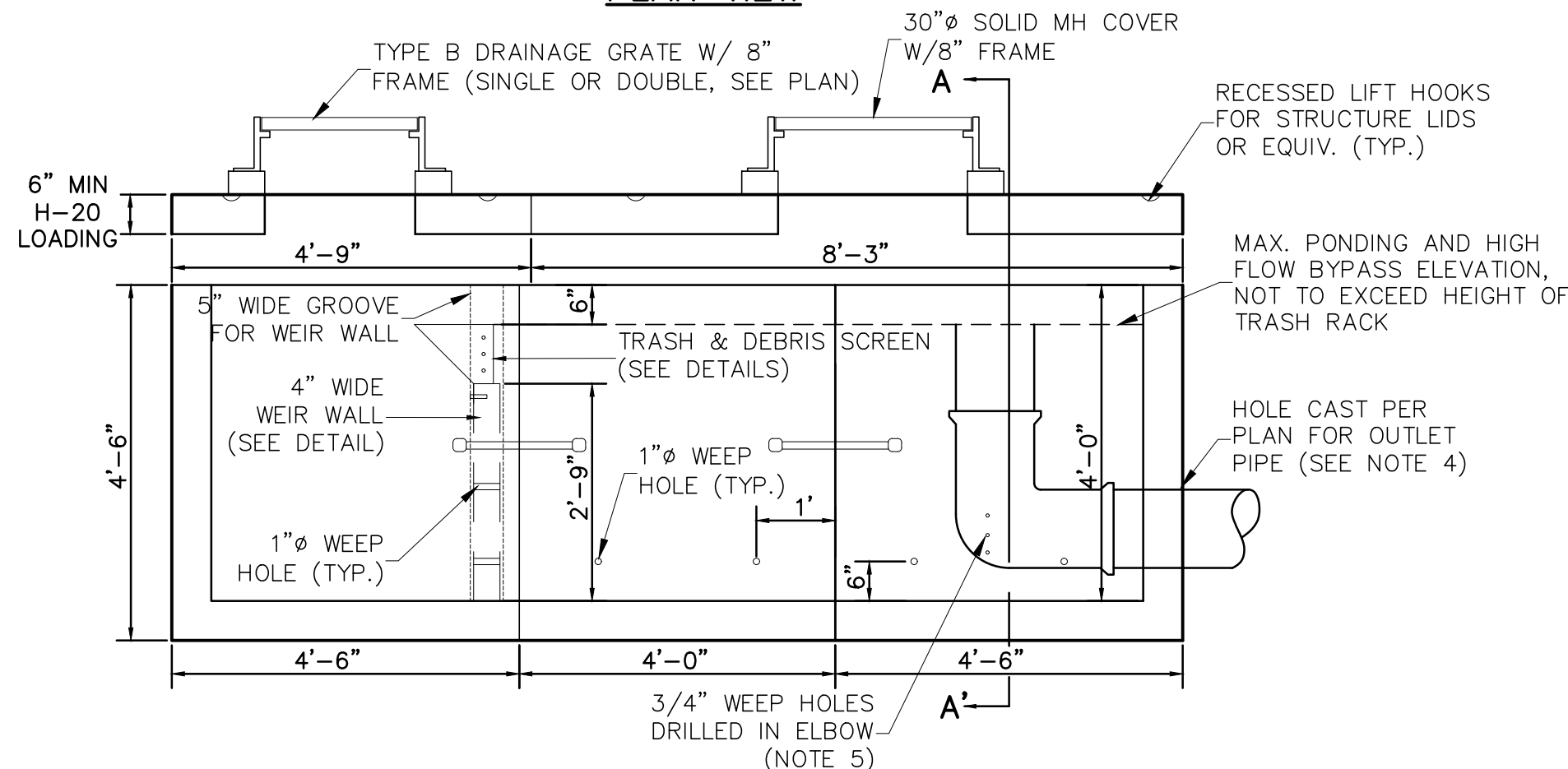
Not to Scale

- TRASH SCREEN TO BE BOLTED
TO WEIR WALL AND INSIDE
WALLS OF STRUCTURE
(SEE DETAILS)
- 2" X 3" HOLES (TYP.)
3" X 3" HOLES (TYP.)

WEIR WALL DETAIL

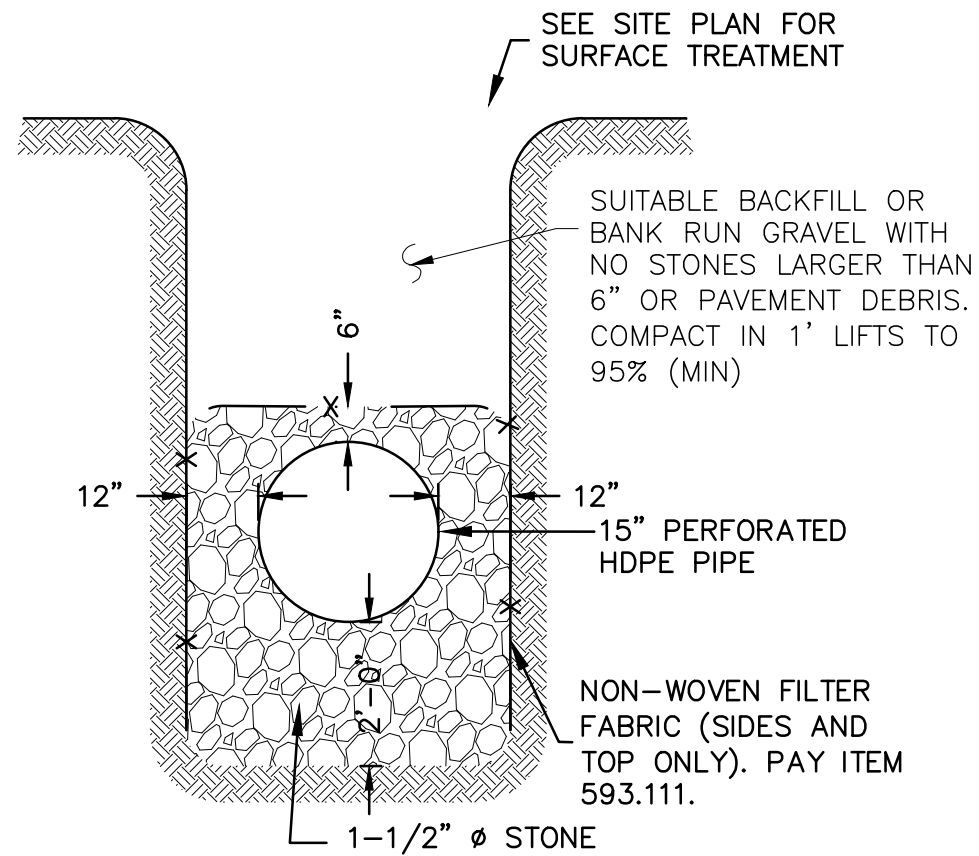


PLAN VIEW



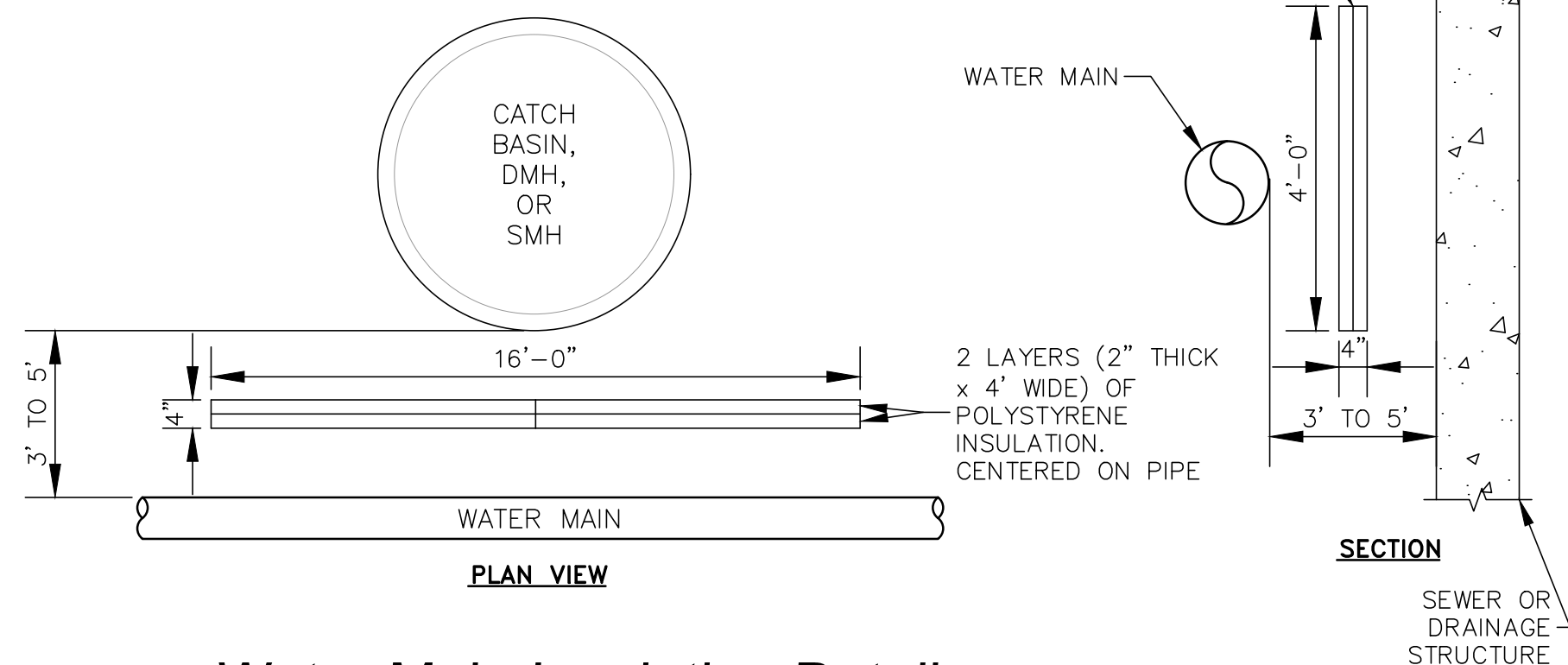
SIDE VIEW CROSS-SECTION

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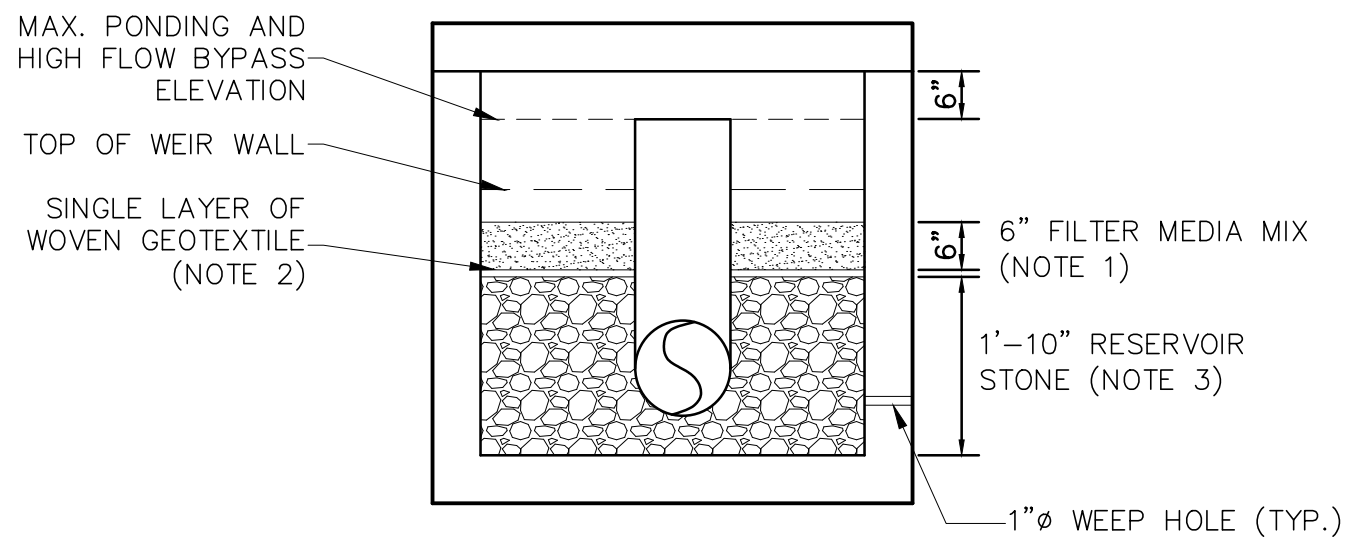


CROSS-SECTION

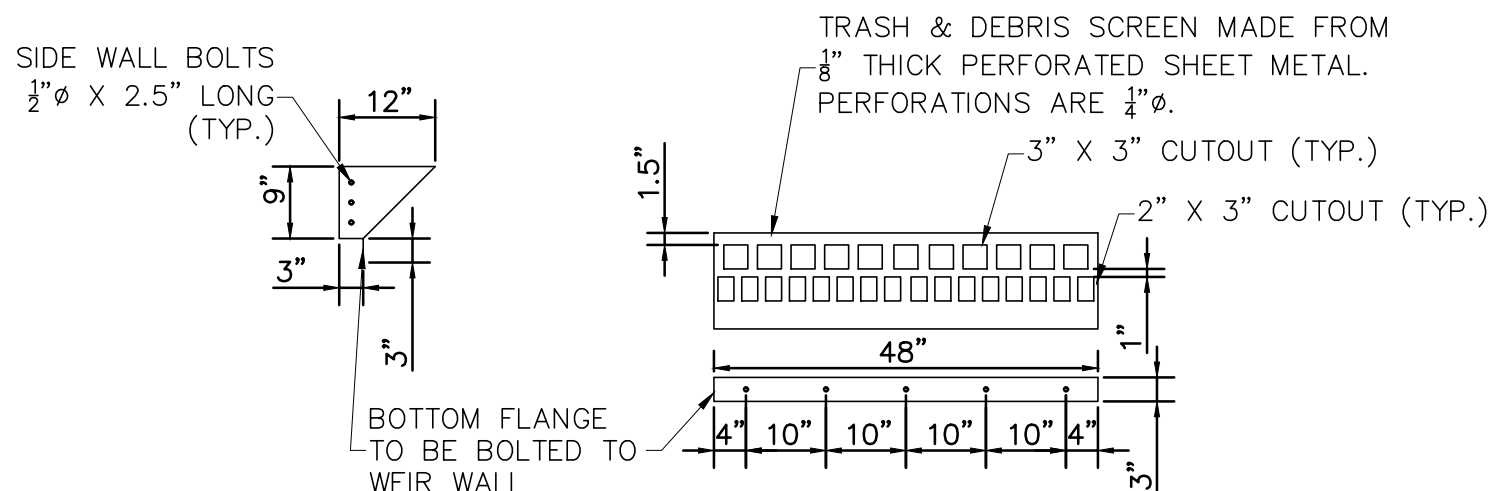
- NOTES:
1. MAINS SHALL NOT BE LESS THAN 10' FROM STRUCTURE EXCEPT WHERE INDICATED ON PLANS.
 2. WATER MAIN JOINTS SHALL BE EQUALLY SPACED ON CENTER OF STRUCTURE TO MAINTAIN SANITARY PROTECTION OF WATER MAIN.



Not to Scale



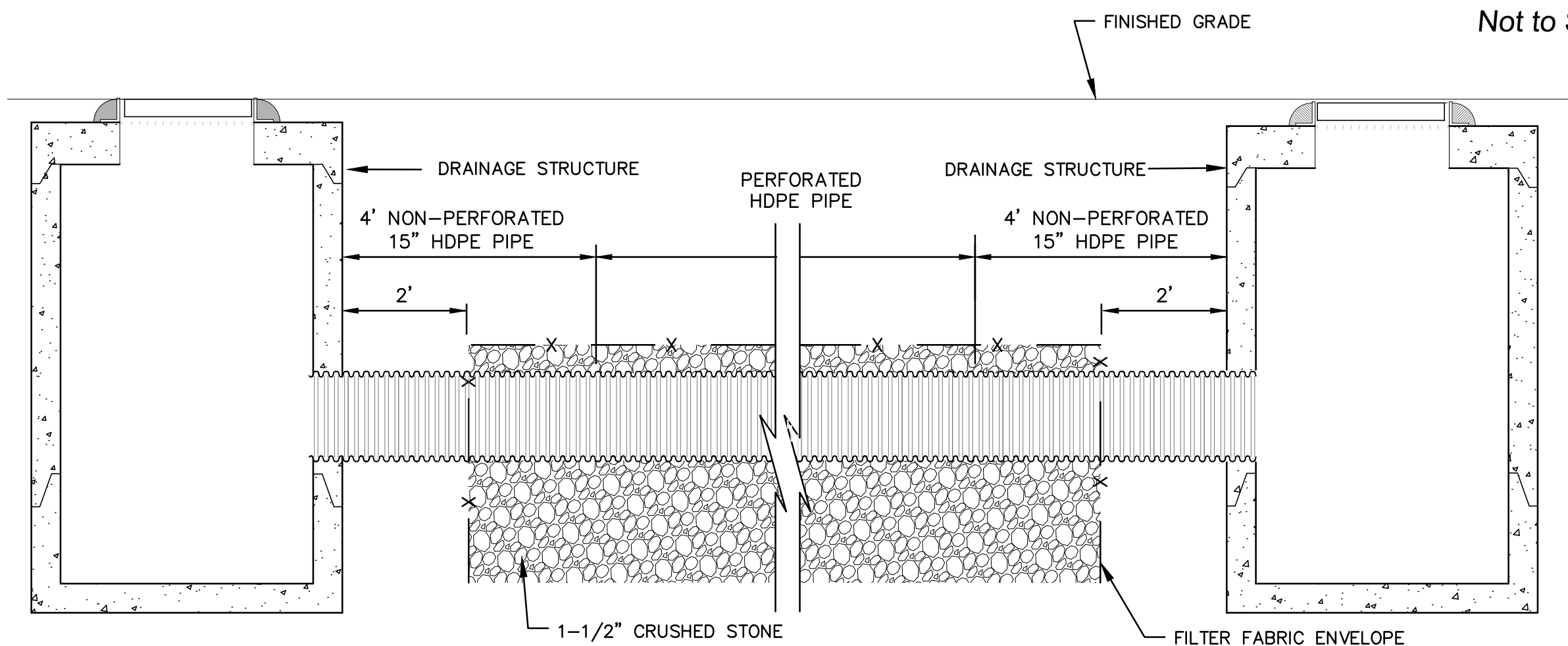
MEDIA FILTER SECTION A - A'



SIDE VIEW

FRONT VIEW

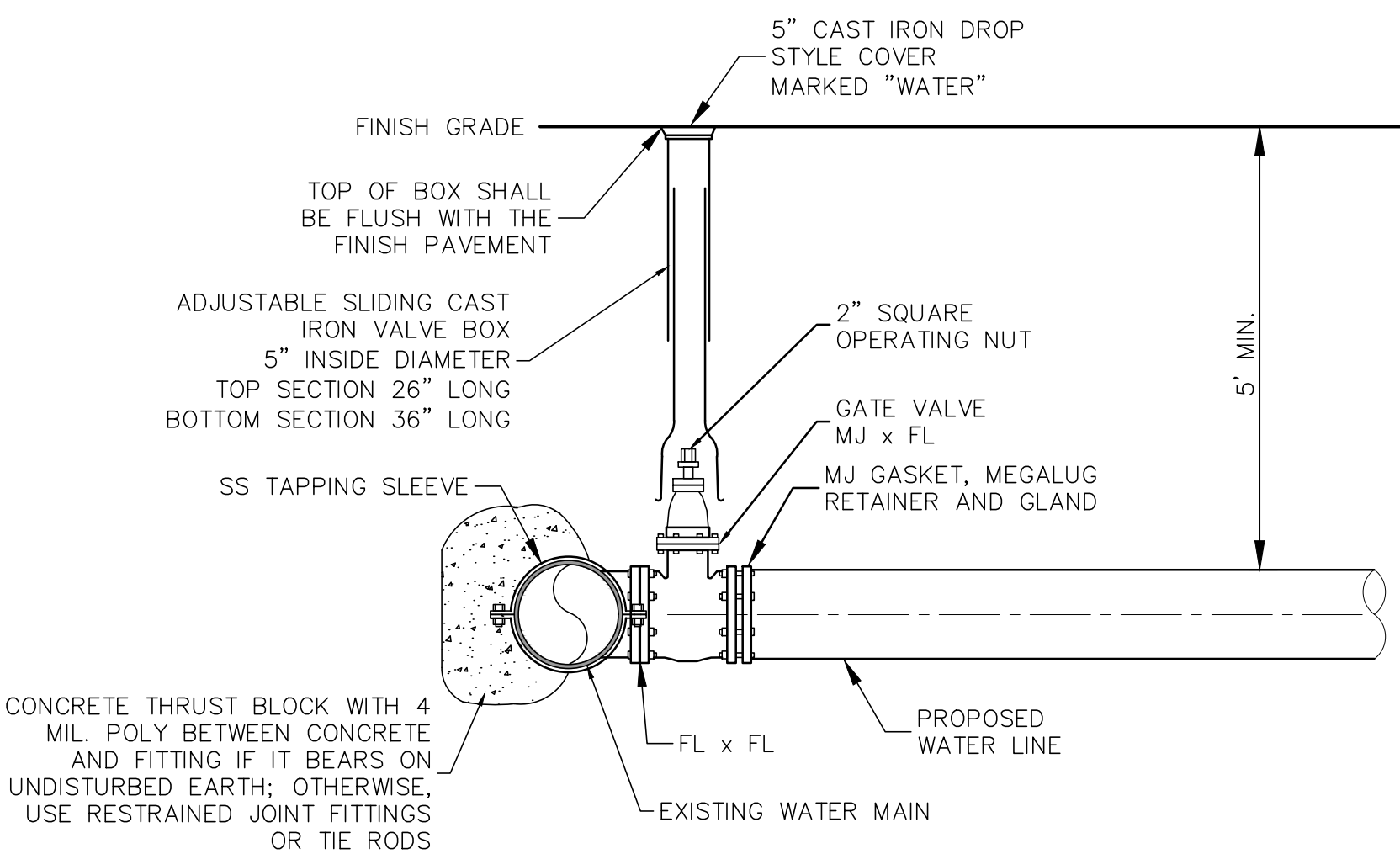
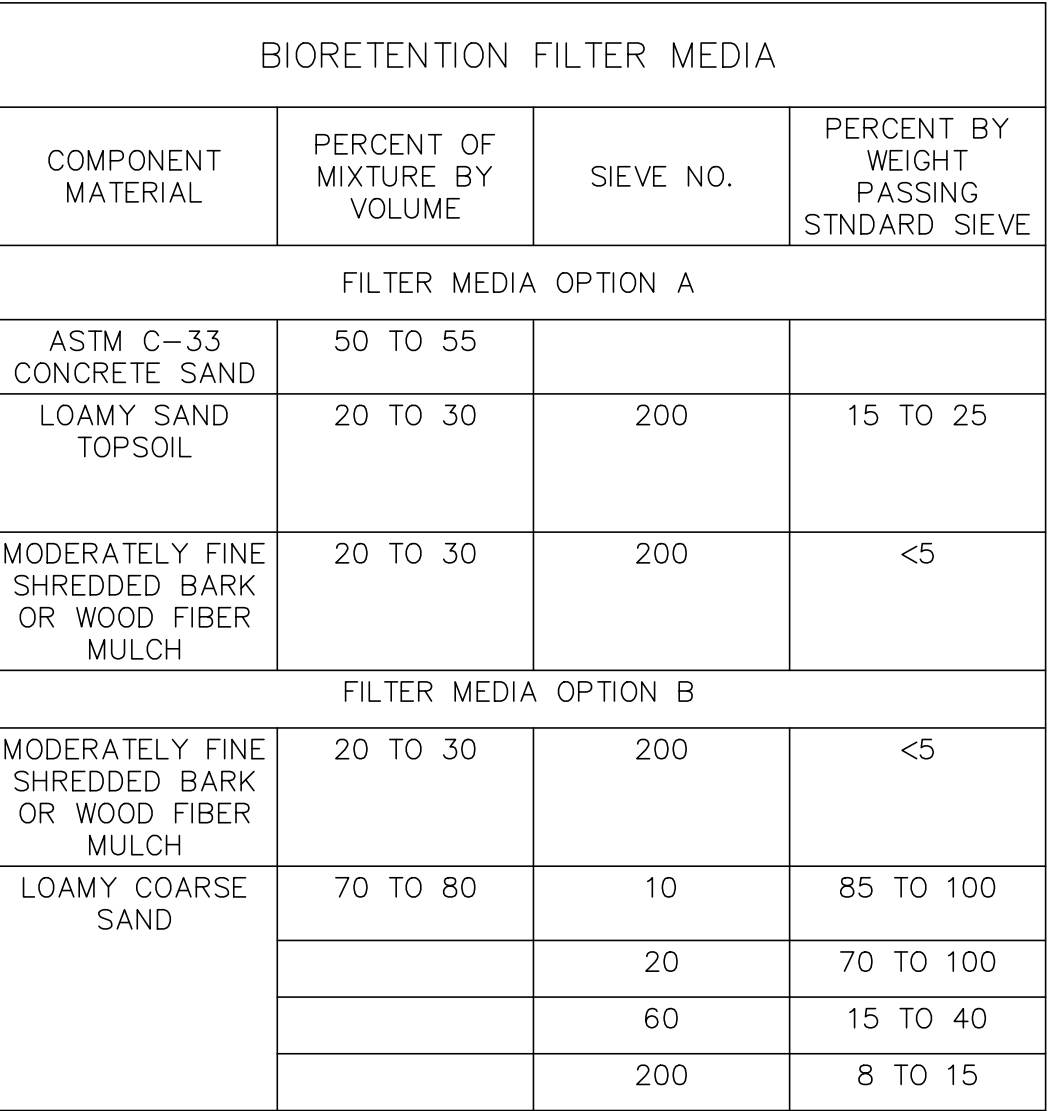
- NOTES:**
1. FILTER MEDIA COMPOSITION IS MIXED BY TOTAL VOLUME REQUIRED
 - 1.1. 75-85% COARSE SAND (ASTM C-33 OR EQUIVALENT)
 - 1.2. 15-25% LOAM OR TOP SOIL
 - 1.3. 0-5% WATER TREATMENT RESIDUALS OR IRON FILLINGS
 2. WOVEN GEOTEXTILE LAYER.
 3. RESERVOIR STONE SHALL BE WASHED $\frac{3}{4}$ " OR NO. 57 STONE.
 4. SYSEM OUTLET CONFIGURATION CONSISTS OF A 90° ELBOW AND SHORT STUB PIECES OF HDPE DOUBLE WALLED OR SDR 35.
 5. DRAINAGE HOLES SHOULD BE DRILLED IN THE OUTLET ELBOW.
 6. PRECAST NOTES:
 - A. PROVIDE UNIT AS MANUFACTURED BY SHEA CONCRETE PRODUCTS OR APPROVED EQUAL.
 - B. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 - C. DESIGN PER ASTM C1433 SPECIFICATION FOR BOX CULVERT.
 - D. ALL REINFORCEMENT PER ASTM A-615-75.
 - E. DESIGNED FOR H-20 LOADING.
 - F. FLAT TOP JOINTS TO BE SEALED WITH BUTYL RESIN.
 - G. CONNECTION SECTIONS TO BE SEALED WITH CLOSED BUTYL MASTIC AND BOLT POCKET CONNECTORS.
 - H. CONNECTION JOINTS TO BE MORTARED BY OTHERS DURING INSTALLATION.
 7. MEDIA BOX FILTER ON SCHOOL STREET SHALL HAVE AN ECCENTRIC TOP FOR THE STRUCTURE TO REMAIN IN THE RIGHT OF WAY.
 8. MEDIA BOX FILTER ON UNION STREET DIMENSIONS VARY FROM OTHER STREETS. SEE SEPARATE DIMENSIONS ON PLAN VIEW AND SIDE VIEW DETAIL.



LONGITUDINAL SECTION

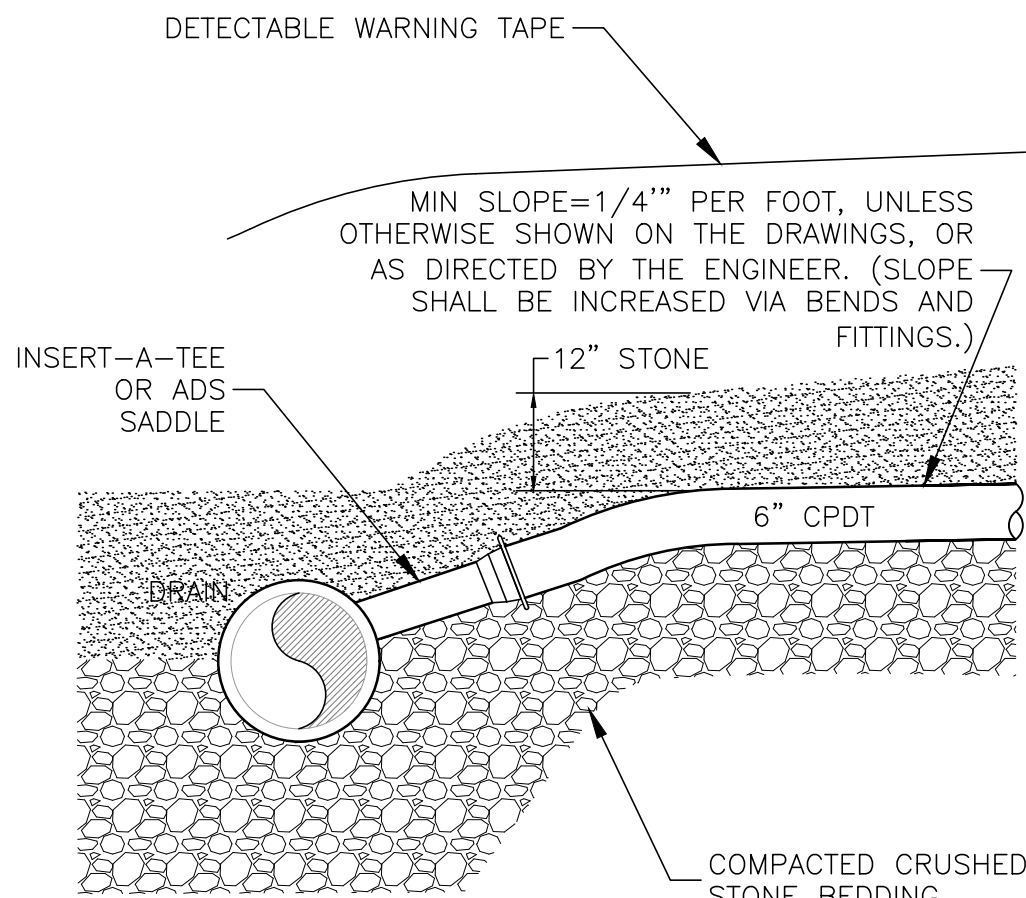
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drawing no. D-6		Town of Exeter, New Hampshire Department of Public Works		date: July 2026	designed by: CFC/WAB	 7/2/2026	 CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 cmaengineers.com
		School Street Area	project no: 1350	drawn by: FDG/CJM			
		Utility Improvement Project	checked by: PAC	approved by: PAC			
		Drainage Details	scale:				
sheet:	30	of	49	no.	revision	date	by

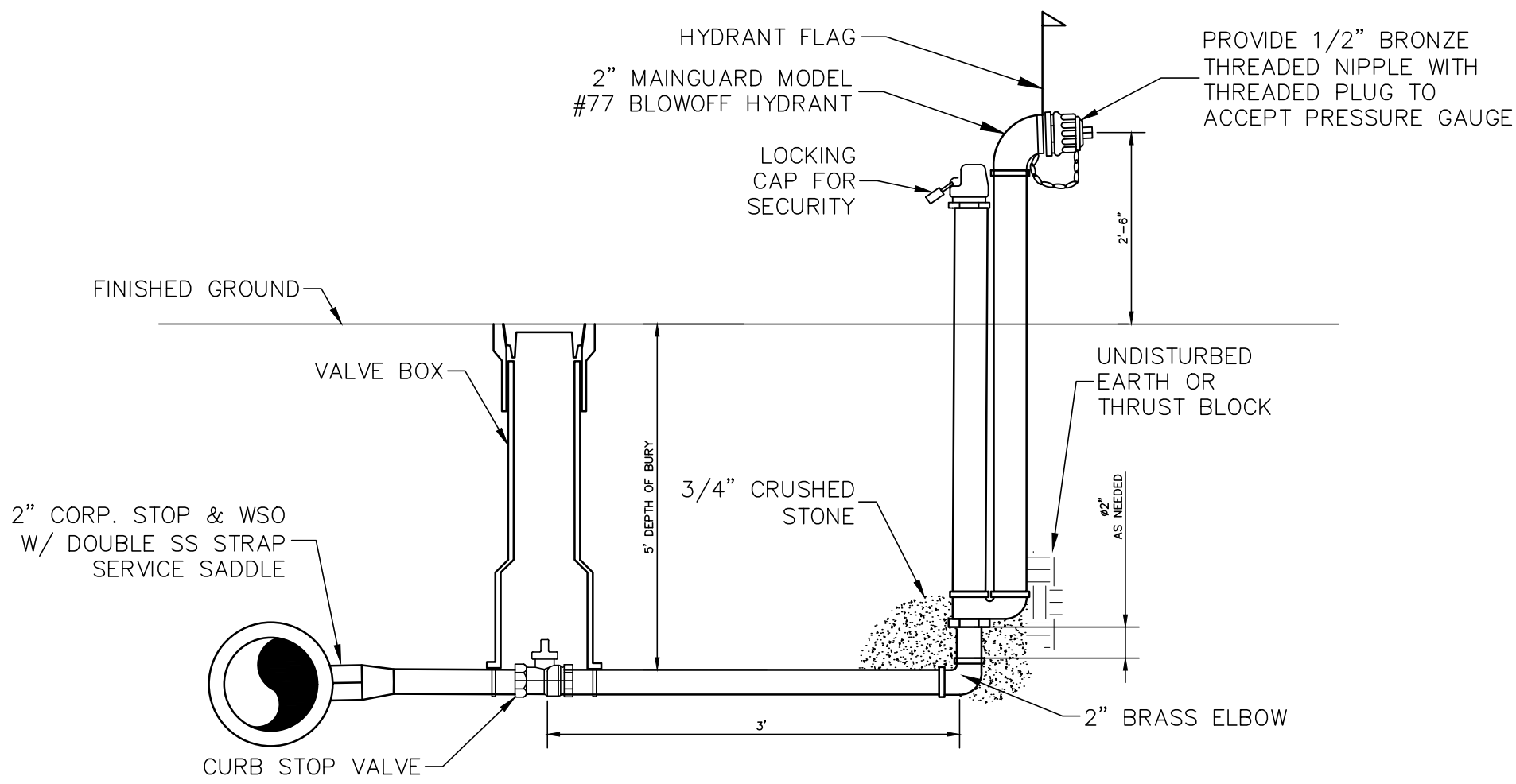
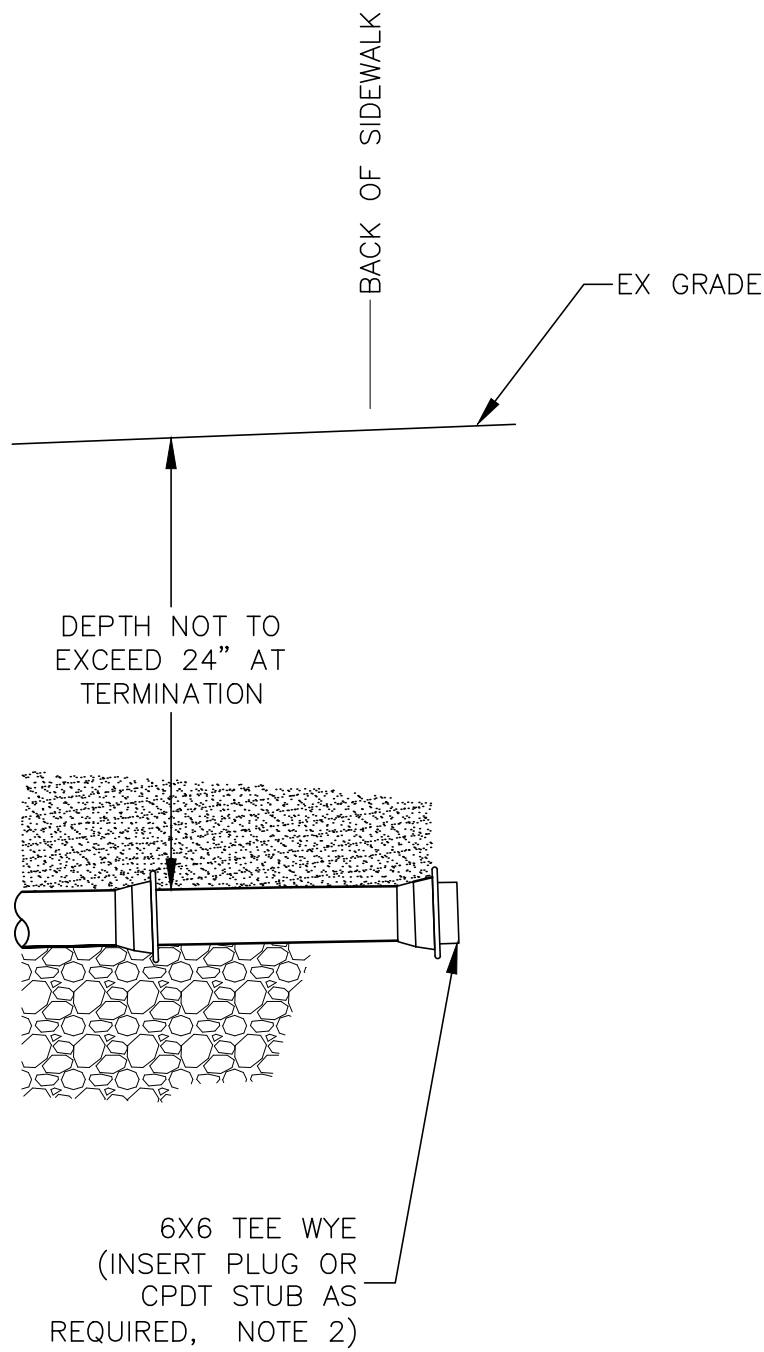


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1. CDPD RISER PIPE, FITTINGS, AND CLEANOUTS ARE INCIDENTAL TO ITEM 603.81206 AND WILL NOT BE CONSIDERED FOR PAYMENT.
2. SERVICE TEES SHALL BE ORIENTED @ 10:30 OR 1:30 (TYP.). UNDER NO CIRCUMSTANCES SHALL SERVICES BE LOCATED BETWEEN 3:00 AND 9:00.
3. 8" PIPE AND FITTINGS SHALL BE USED TO TIE INTO EXISTING 8" SERVICES.



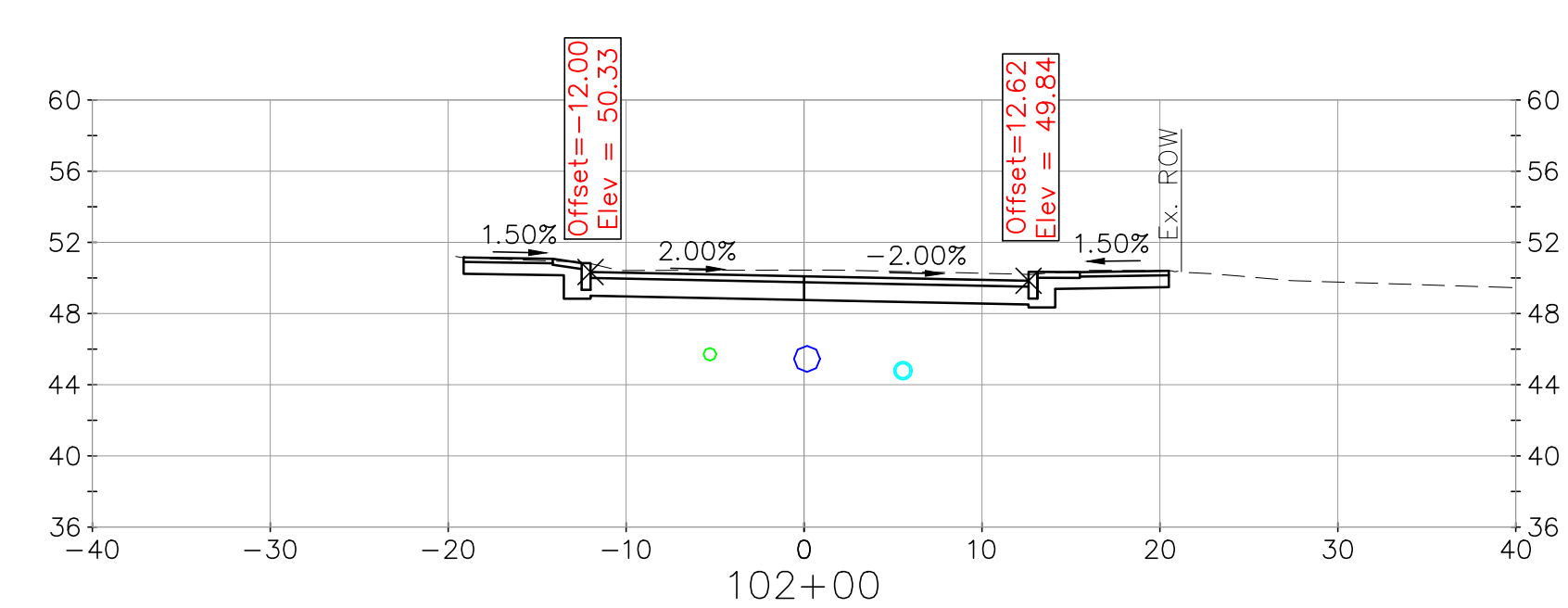
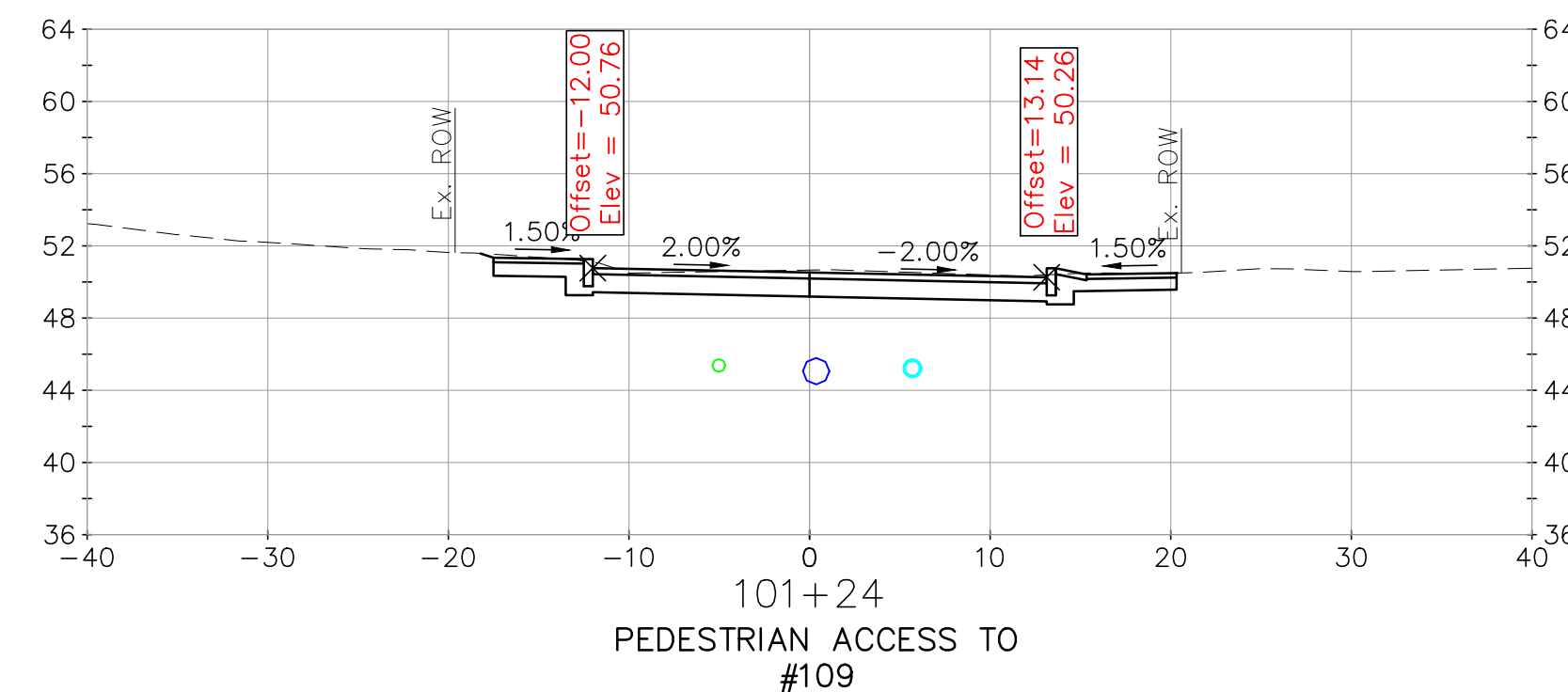
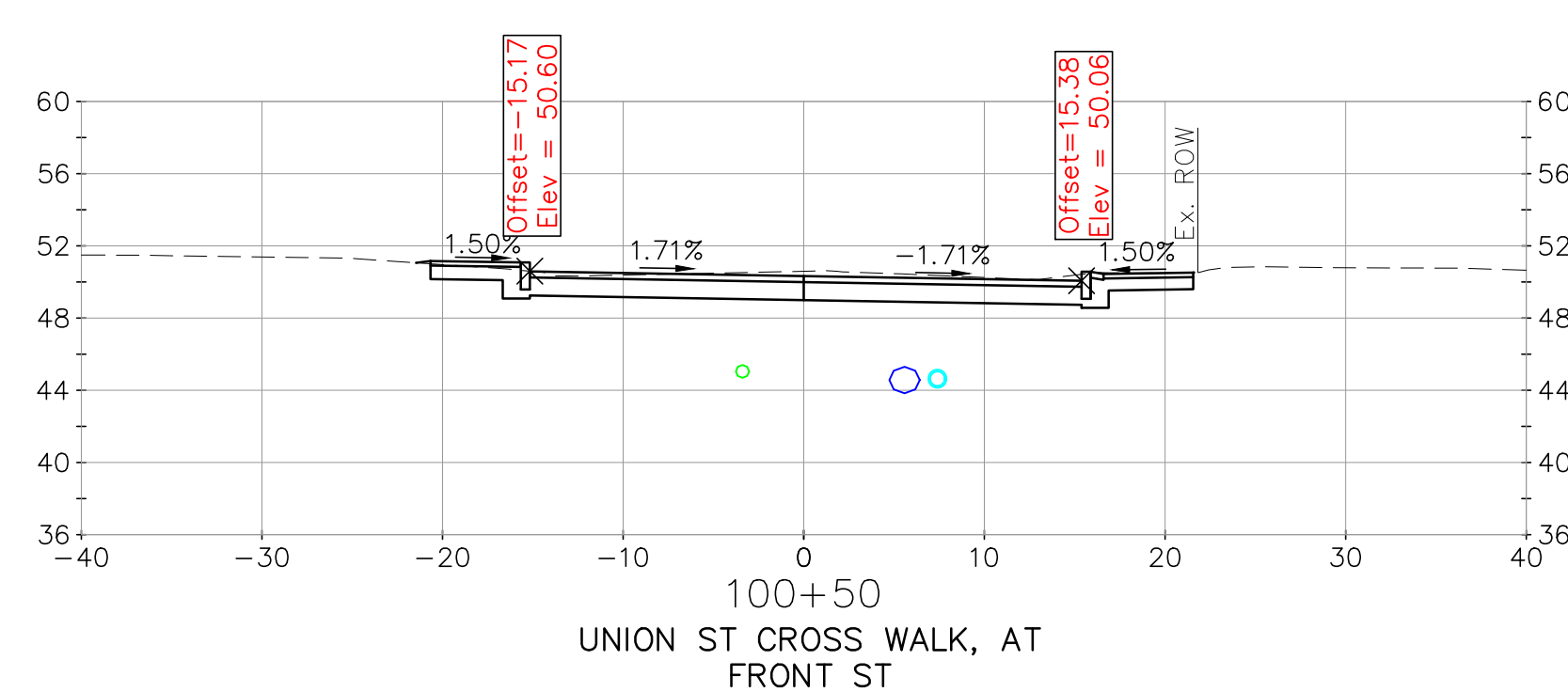
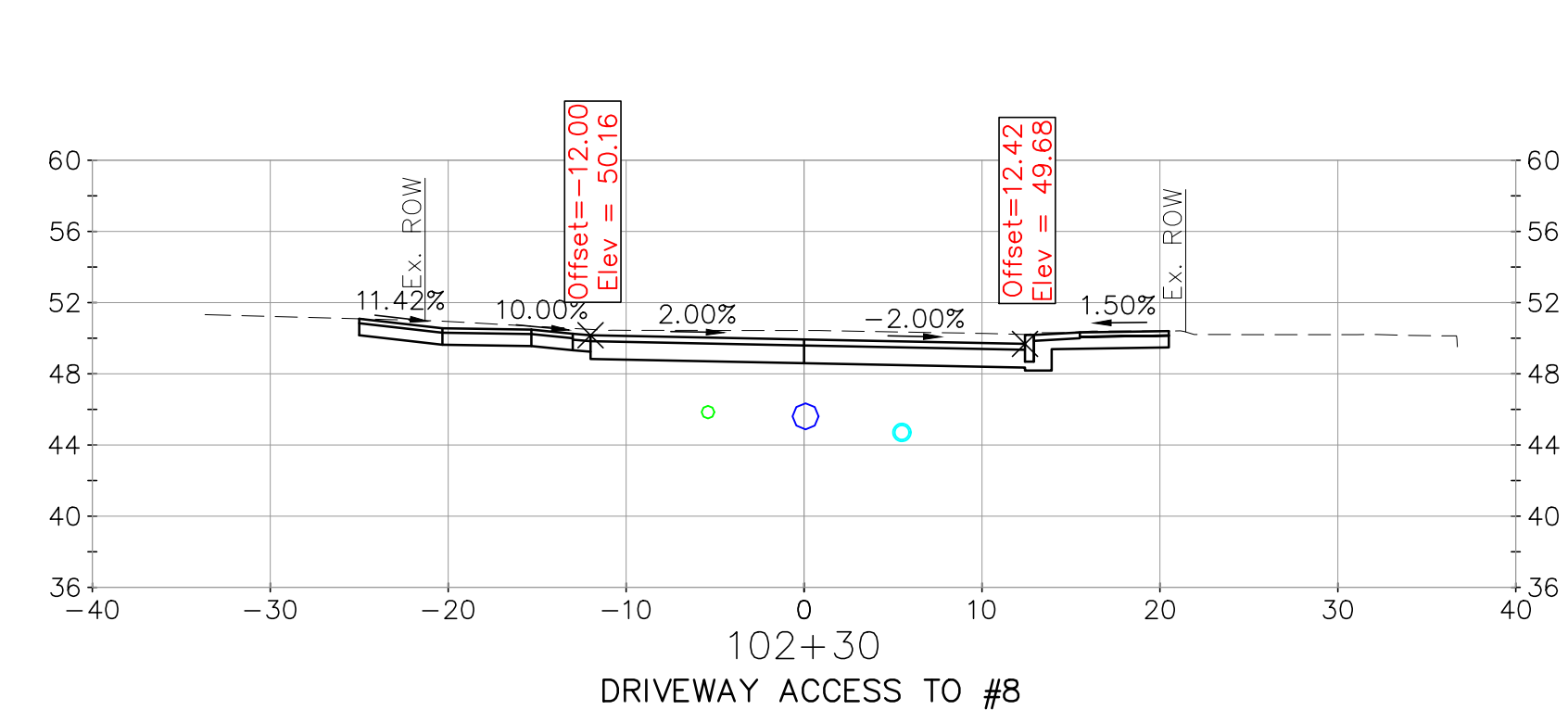
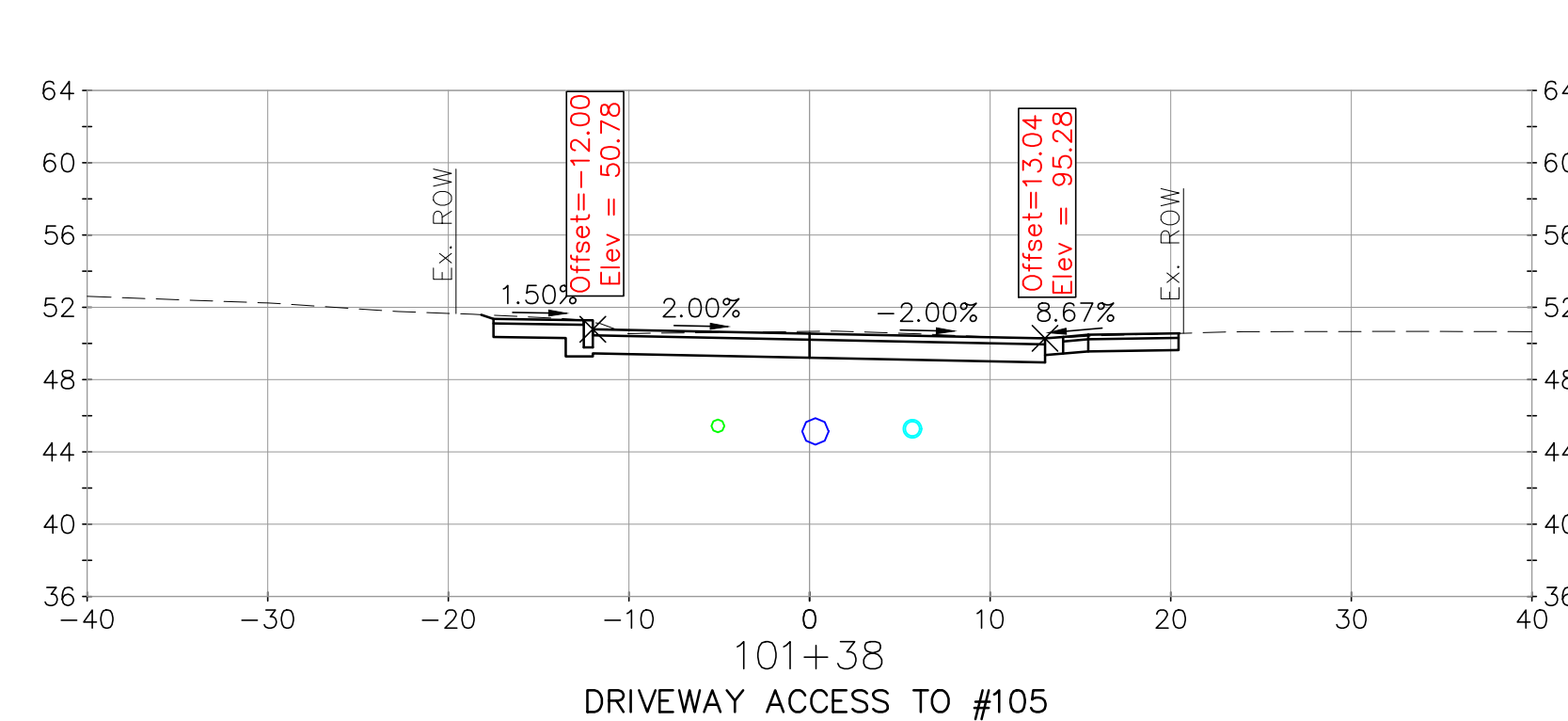
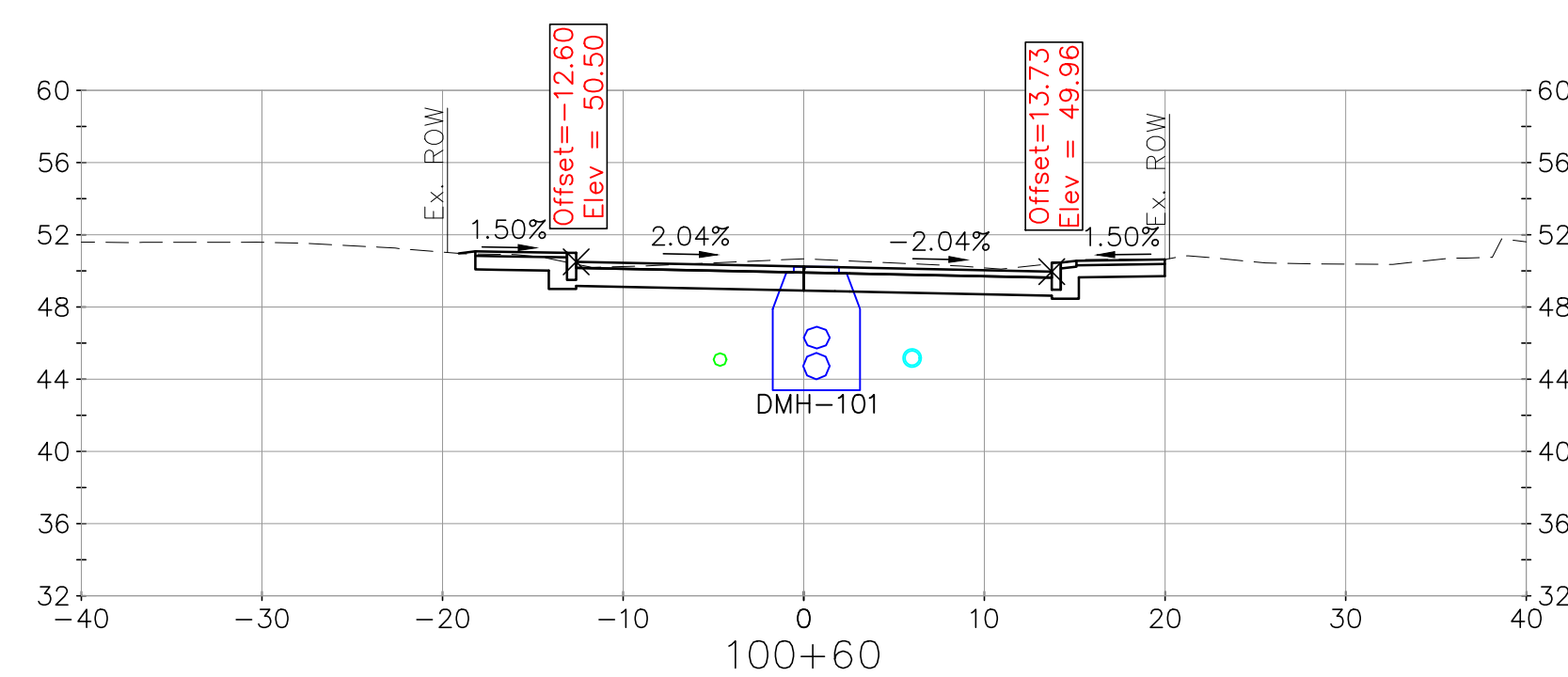
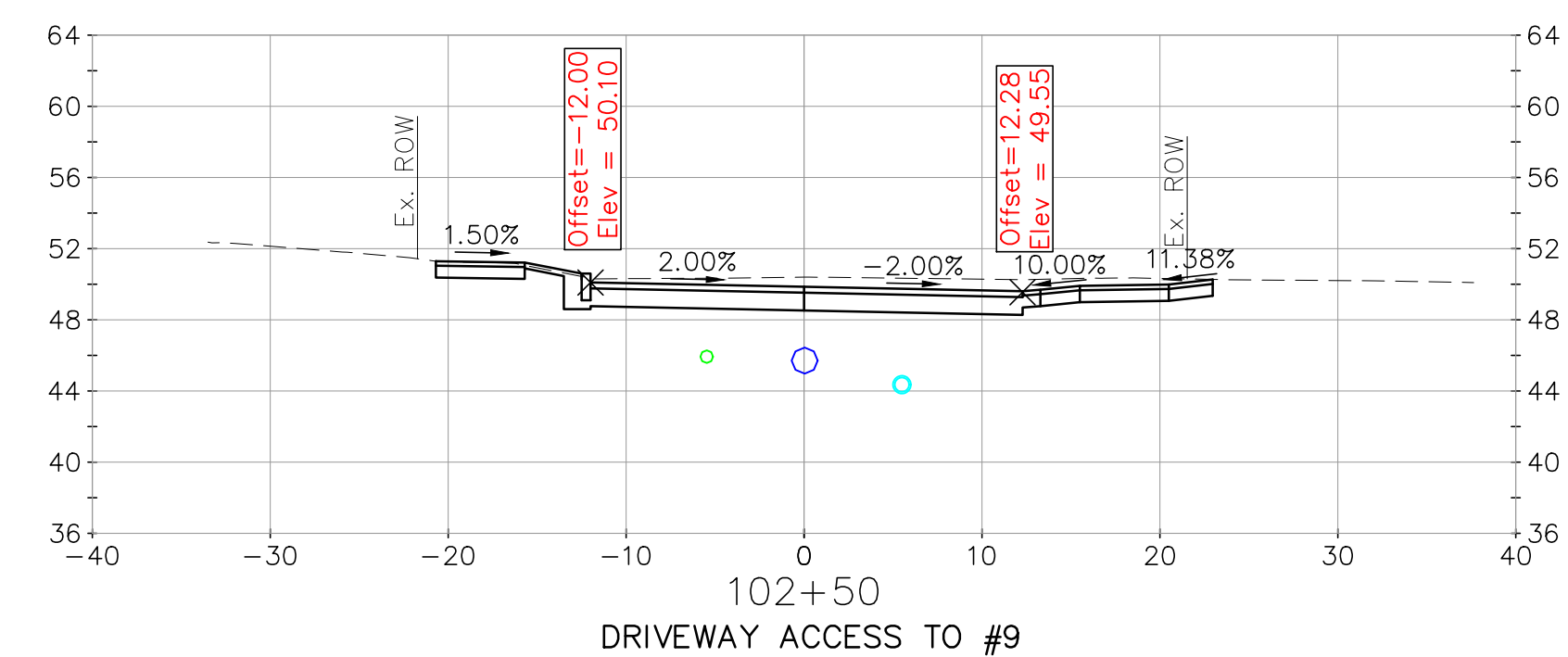
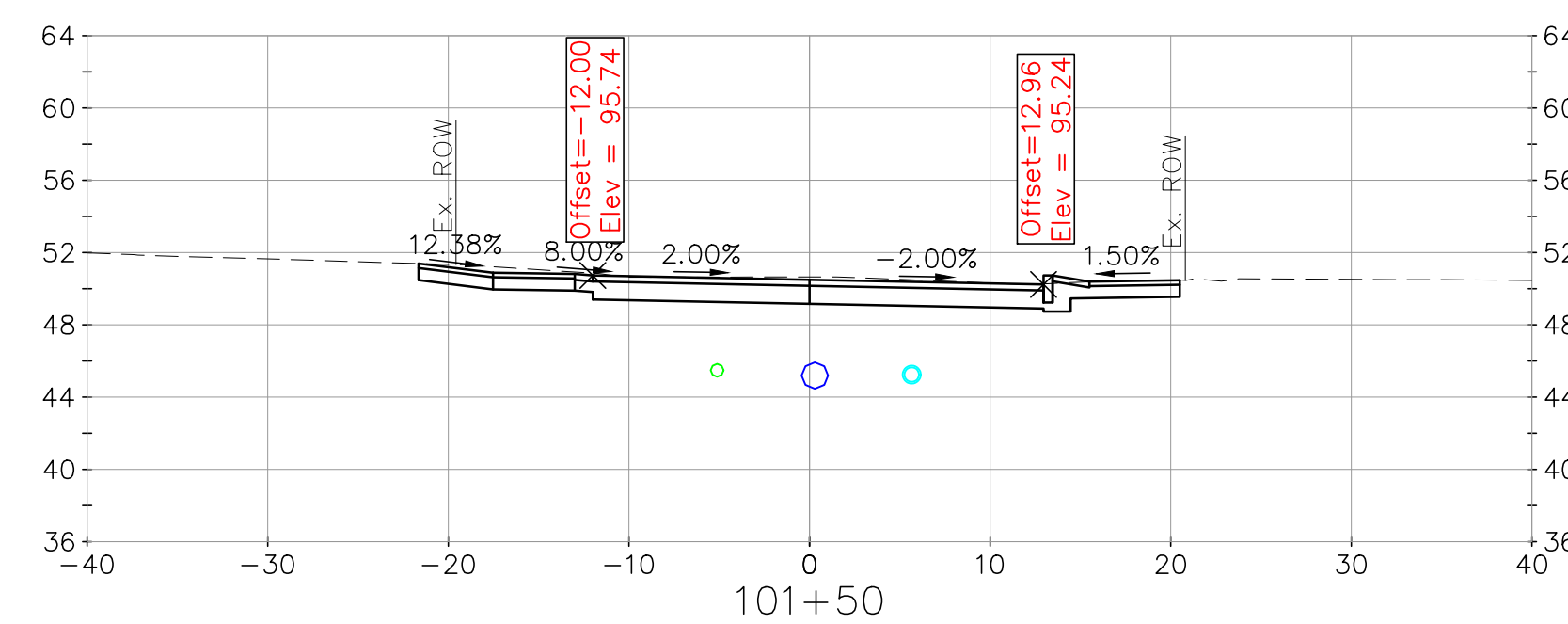
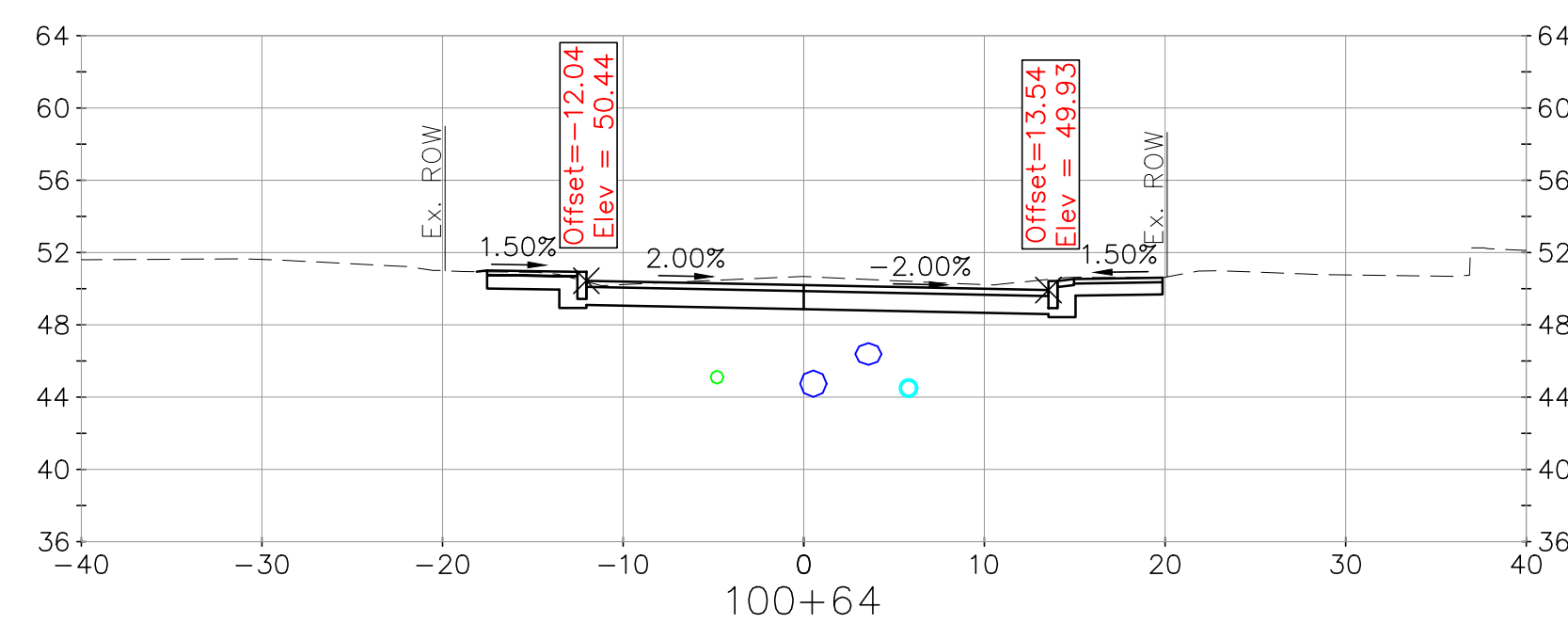
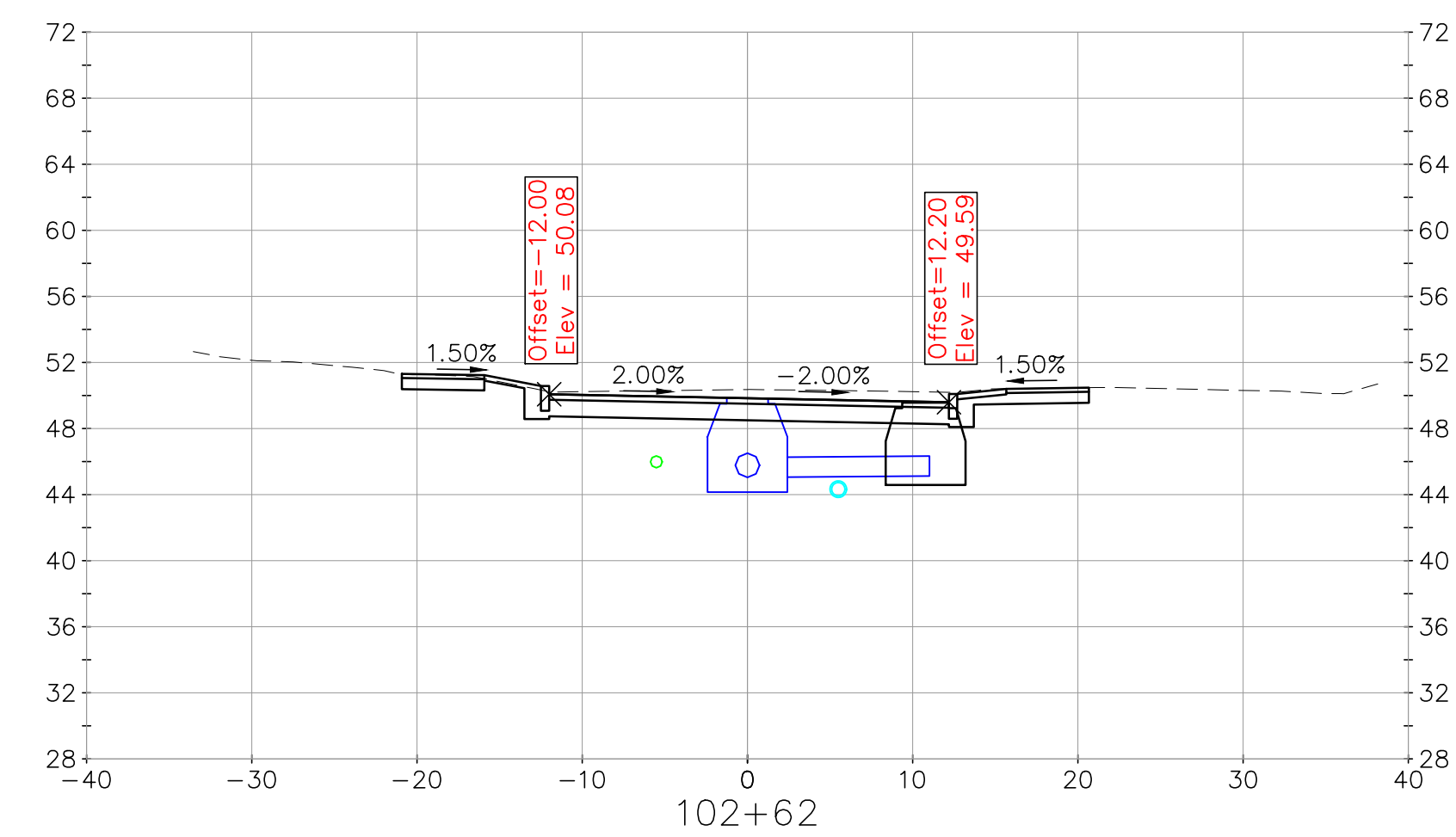
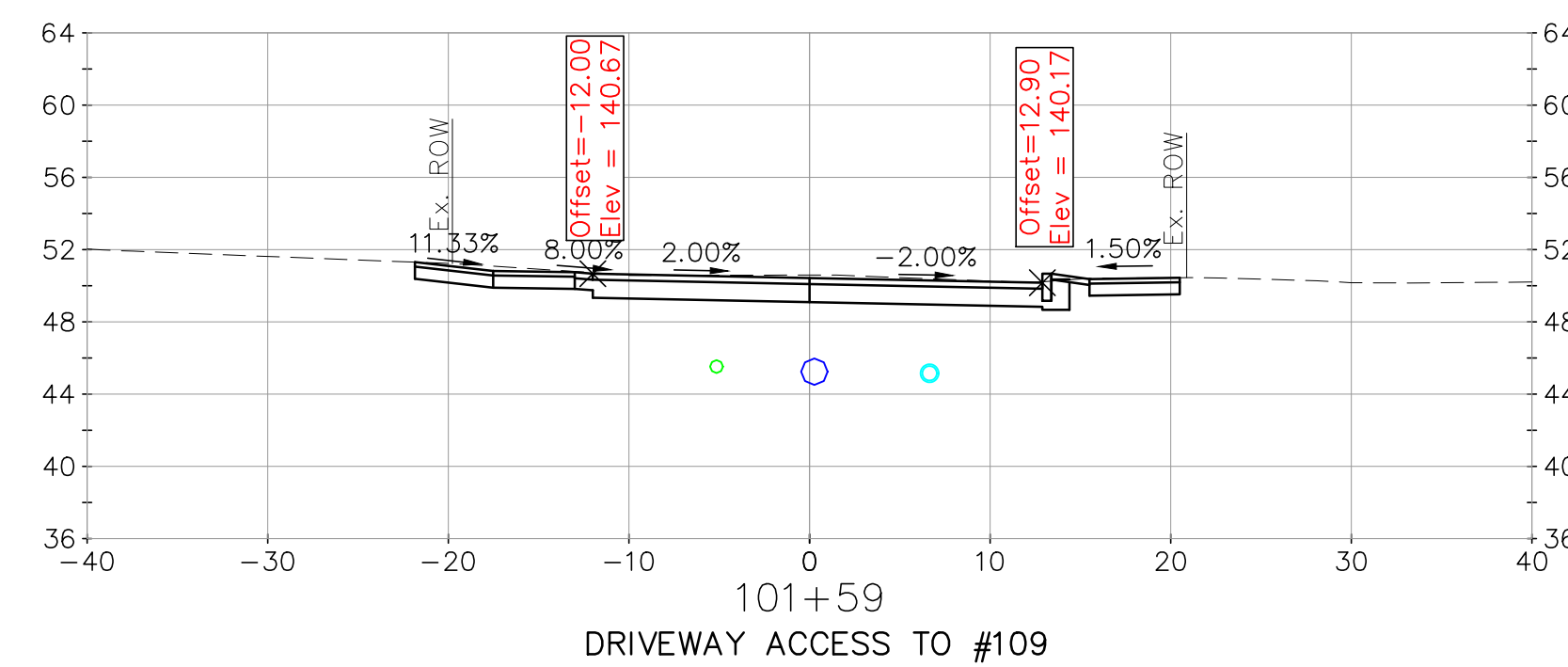
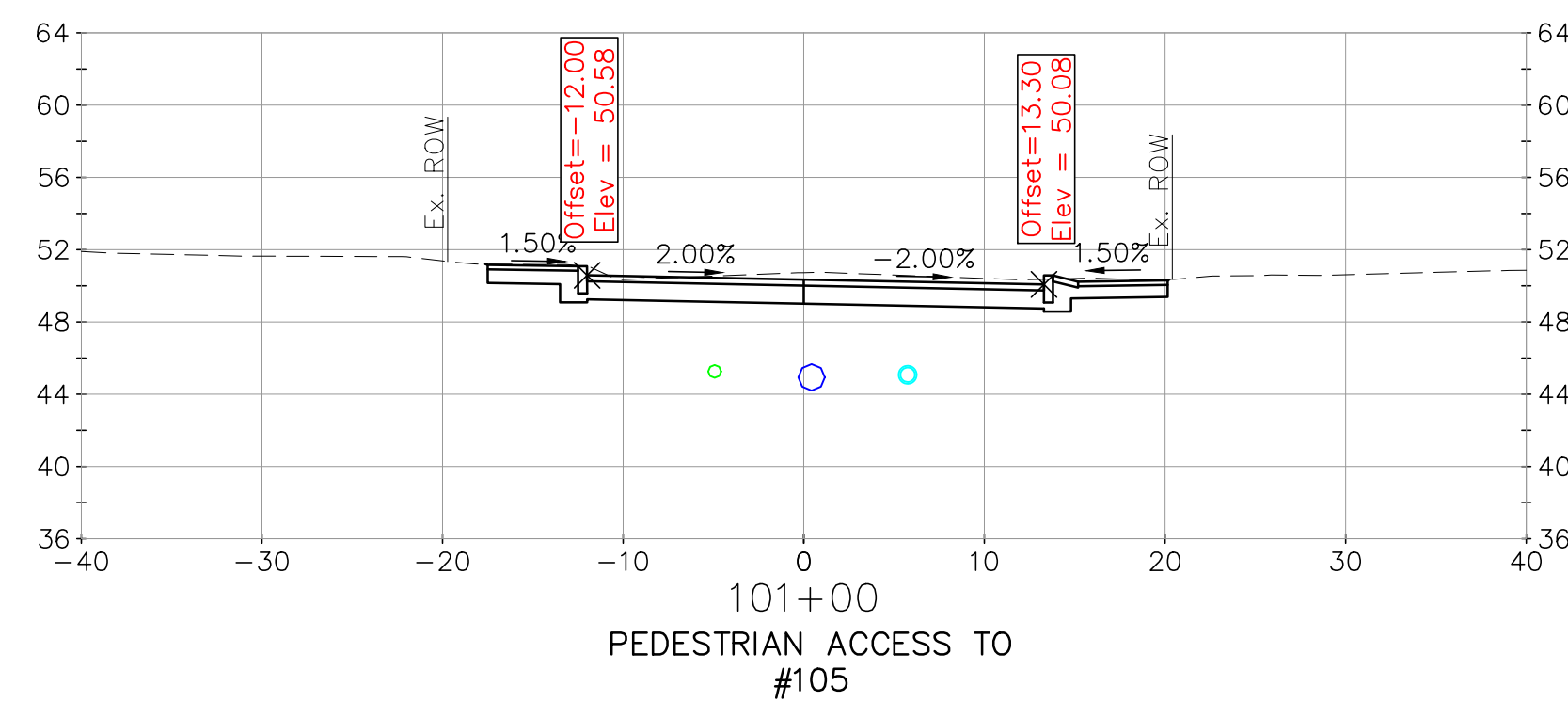
1. HYDRANTS SHALL BE MAINGUARD #77 AS MANUFACTURED BY JOHN C. KUPFERLE FOUNDRY COMPANY, OR ENGINEER APPROVED EQUAL.
2. HYDRANTS ARE POST TYPE WITH 2" FIP INLET AND 2 1/2" NST NOZZLE.
3. HYDRANTS SHALL BE MANUALLY OPERATED FROM THE TOP AND SHALL OPEN LEFT.
4. THE HYDRANT SHALL BE SELF-DRAINING, NON-FREEZING TYPE.
5. ALL OPERATING PARTS OF THE HYDRANT SHALL BE OF BRONZE-TO-BRONZE DESIGN AND SHALL BE SERVICED OR REPLACED WITHOUT DIGGING UP OR DISTURBING THE SUPPLY LINE CONNECTION.

Not to Scale

Not to Scale

Not to Scale

drawing no. D-7	Town of Exeter, New Hampshire Department of Public Works School Street Area Utility Improvement Project Water and Drainage Details	date: July 2026	designed by: CFCWAB	 7/2/2026	 CIVIL/ENVIRONMENTAL/STRUCTURAL	Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/641-4223 c m a e n g i n e e r s . c o m						
		project no: 1350	drawn by: FDG/CLM									
		checked by: PAC	approved by: PAC									
		scale:										
sheet:	31	of	49									

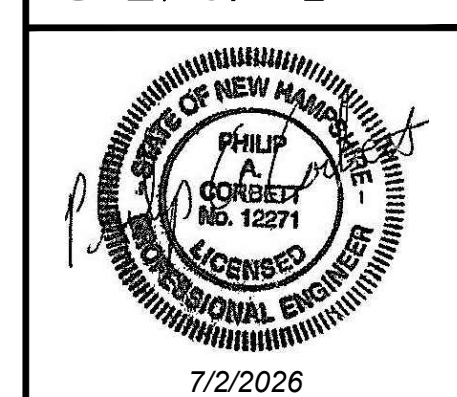
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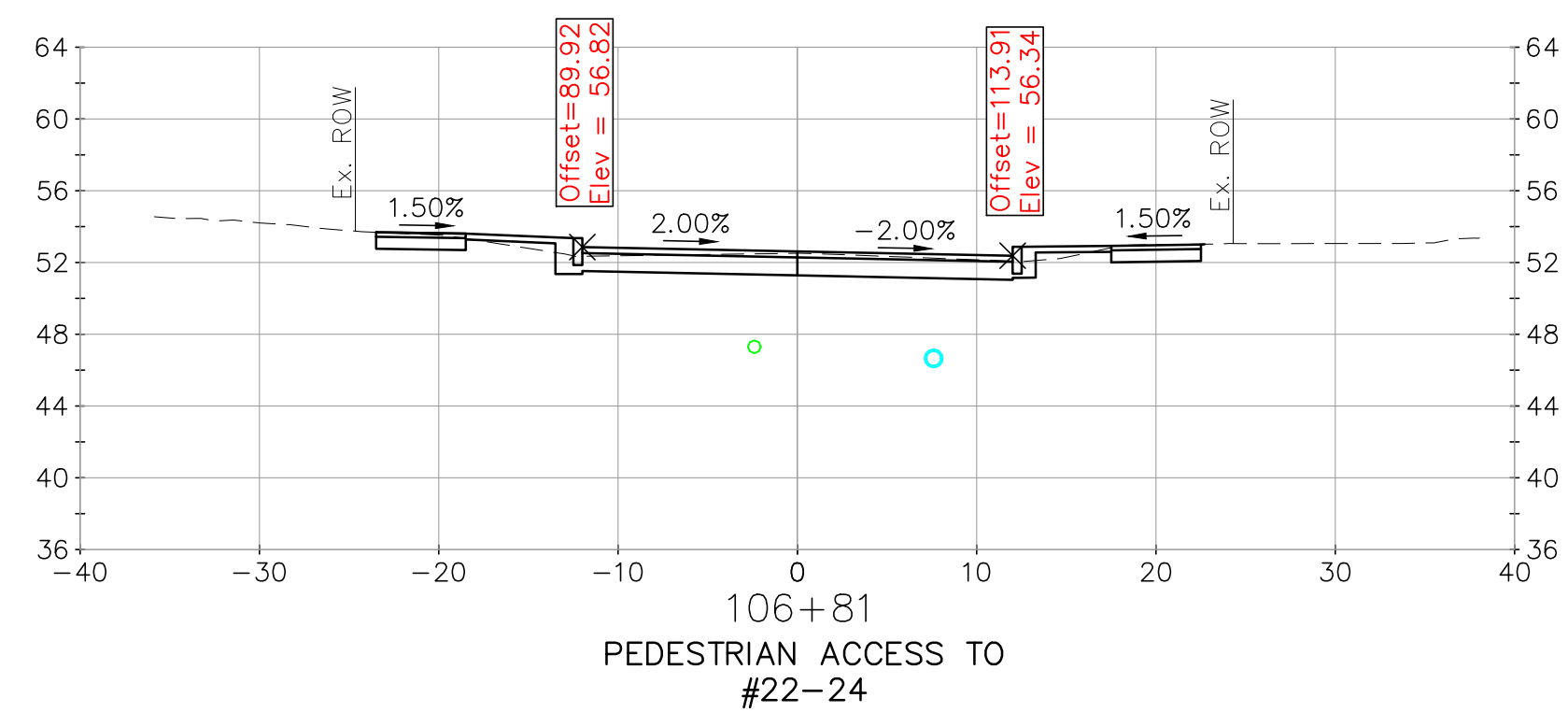
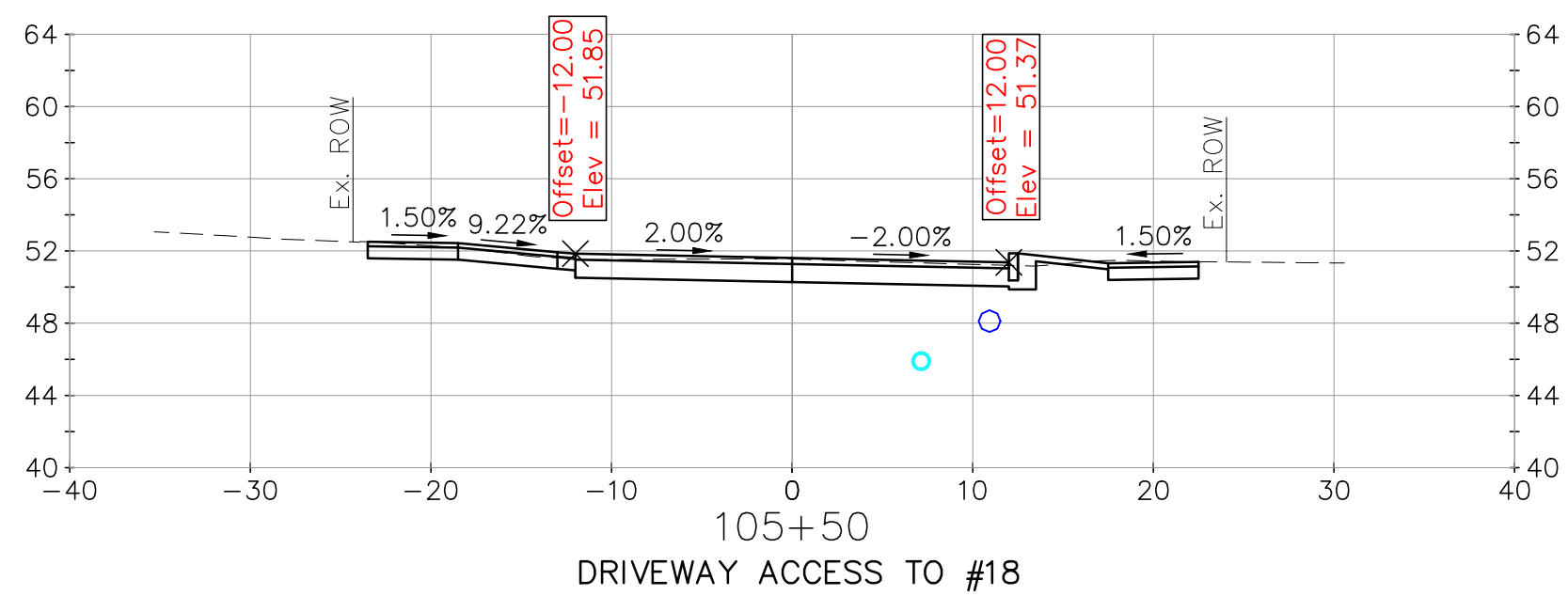
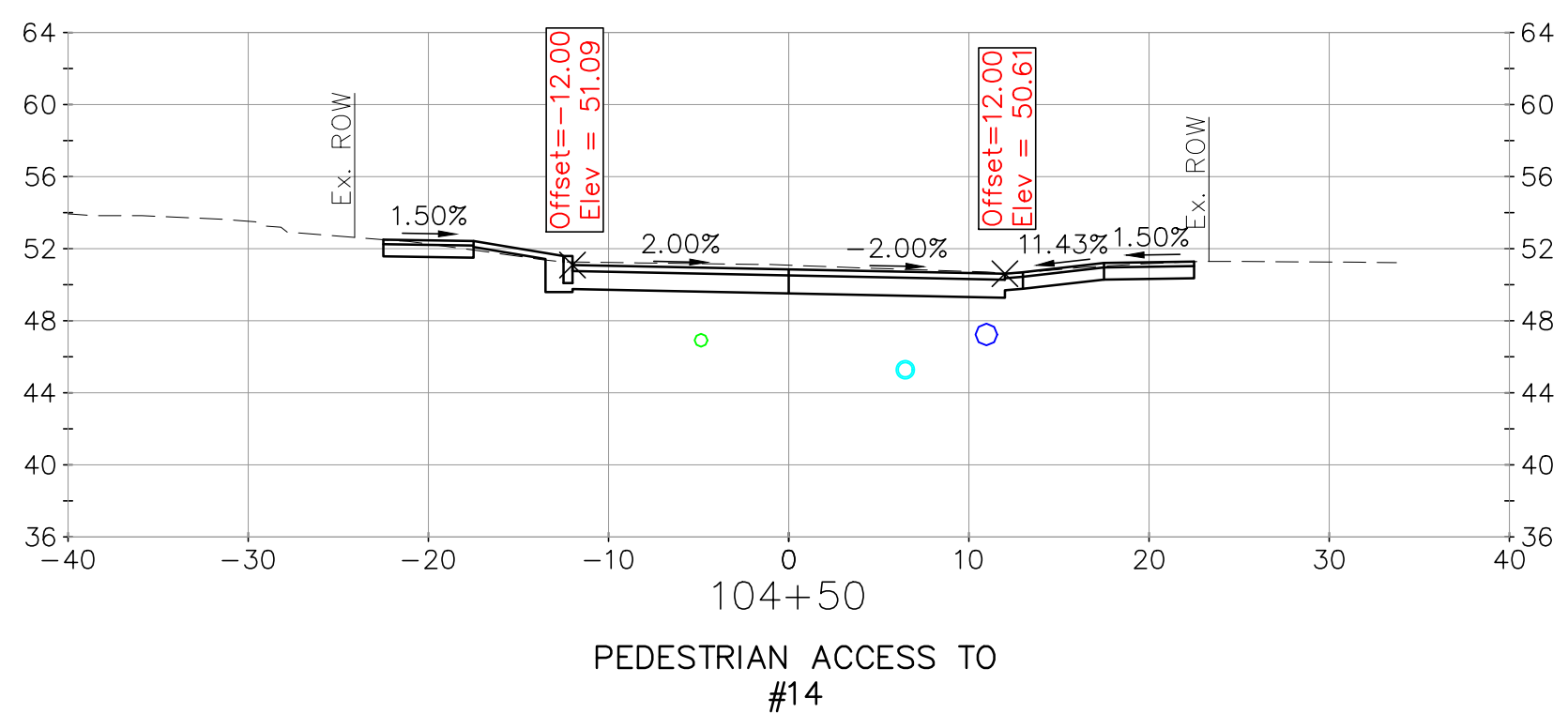
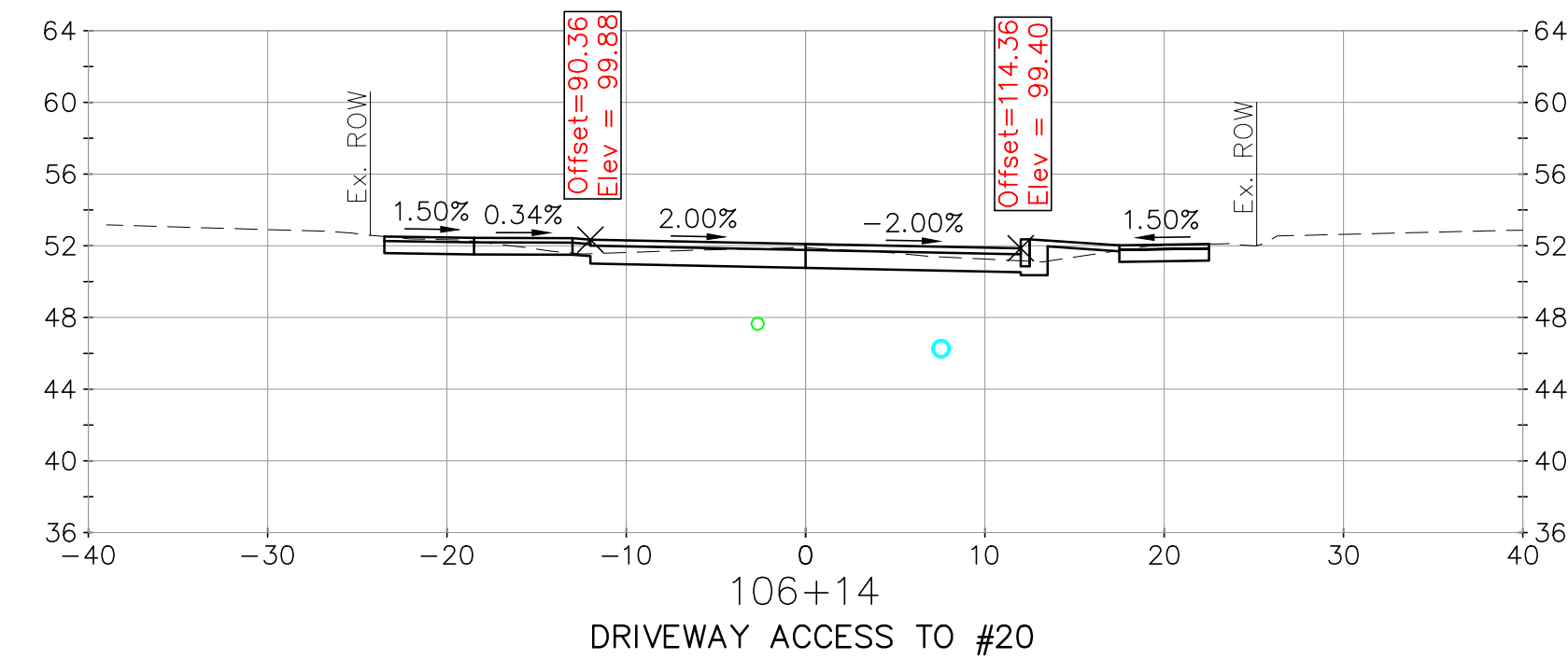
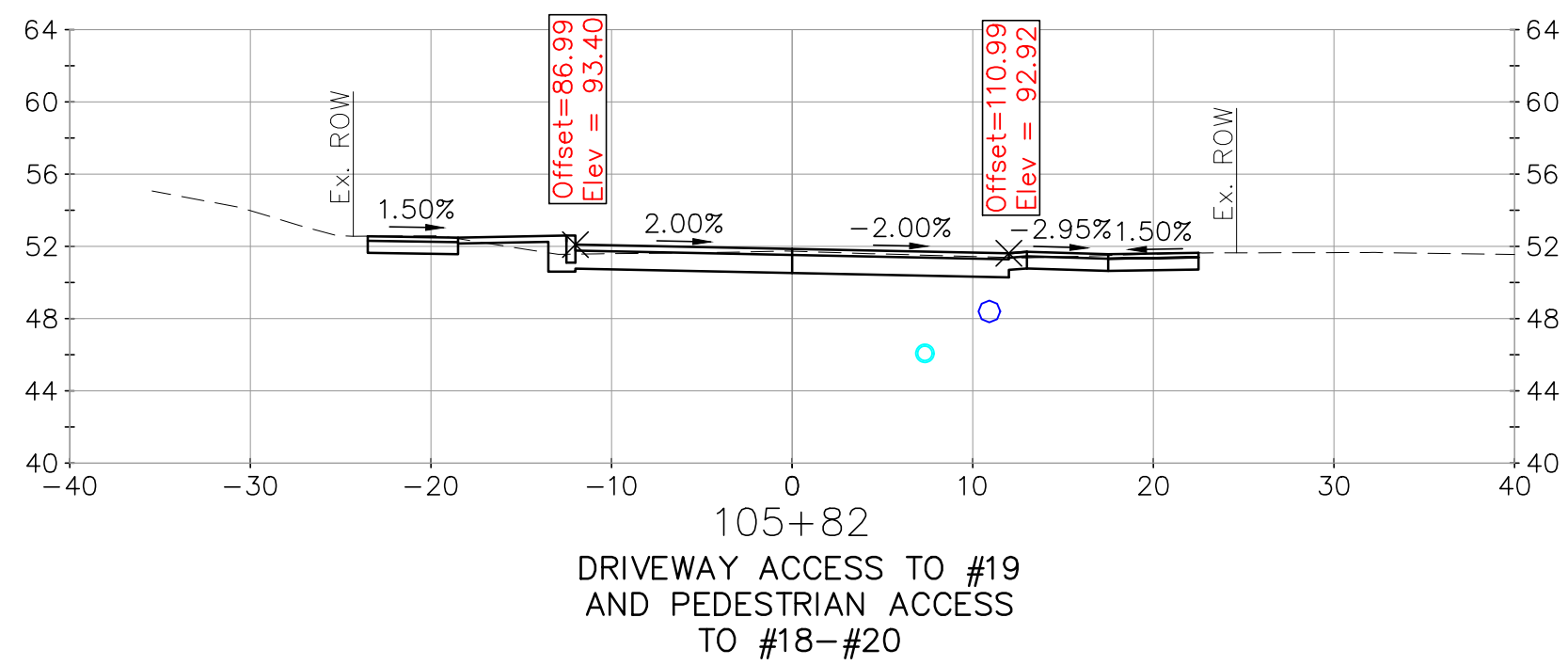
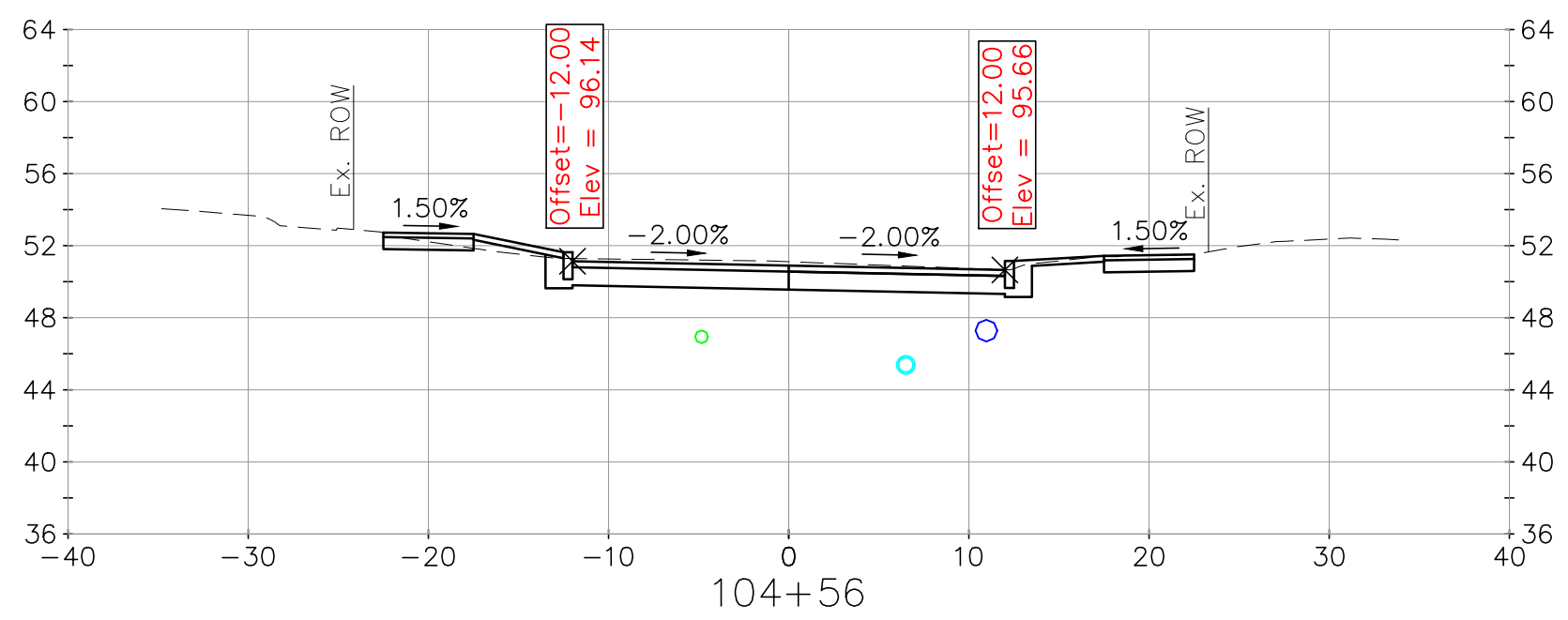
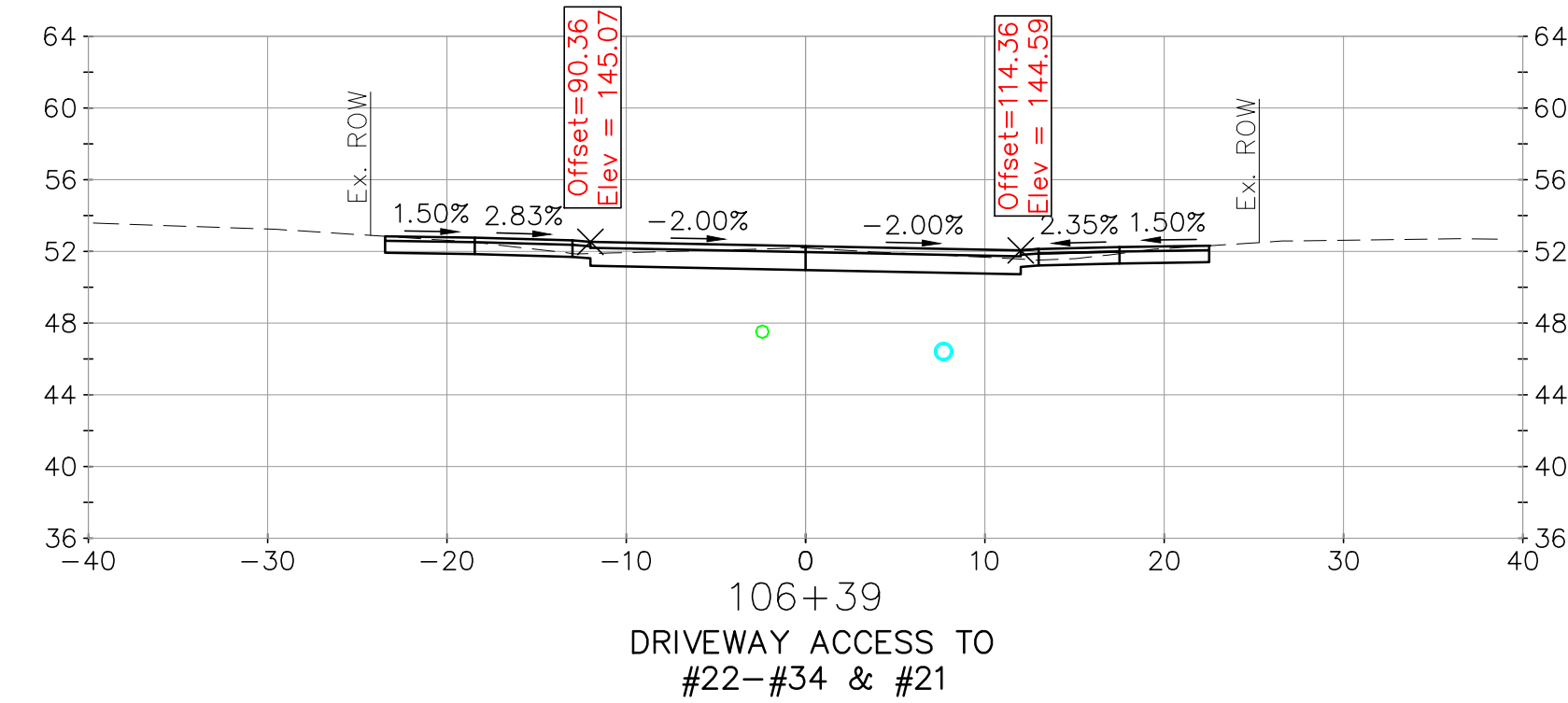
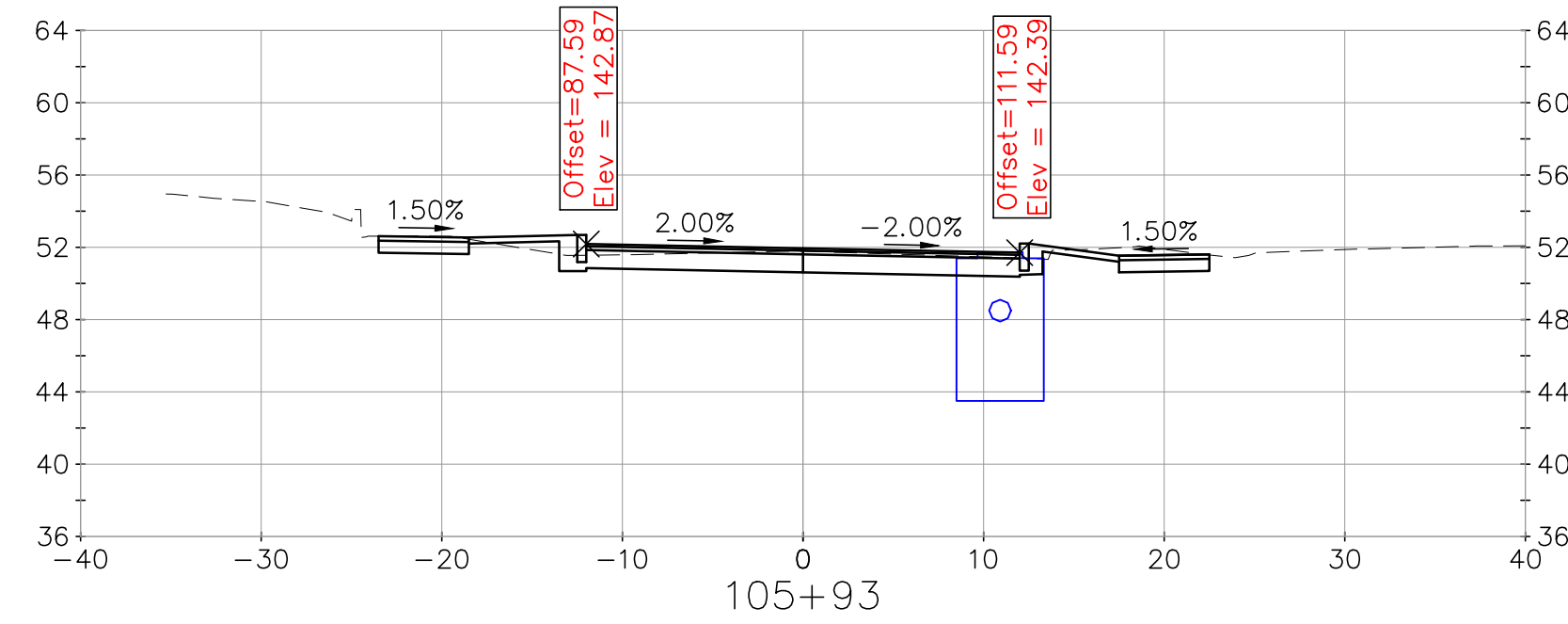
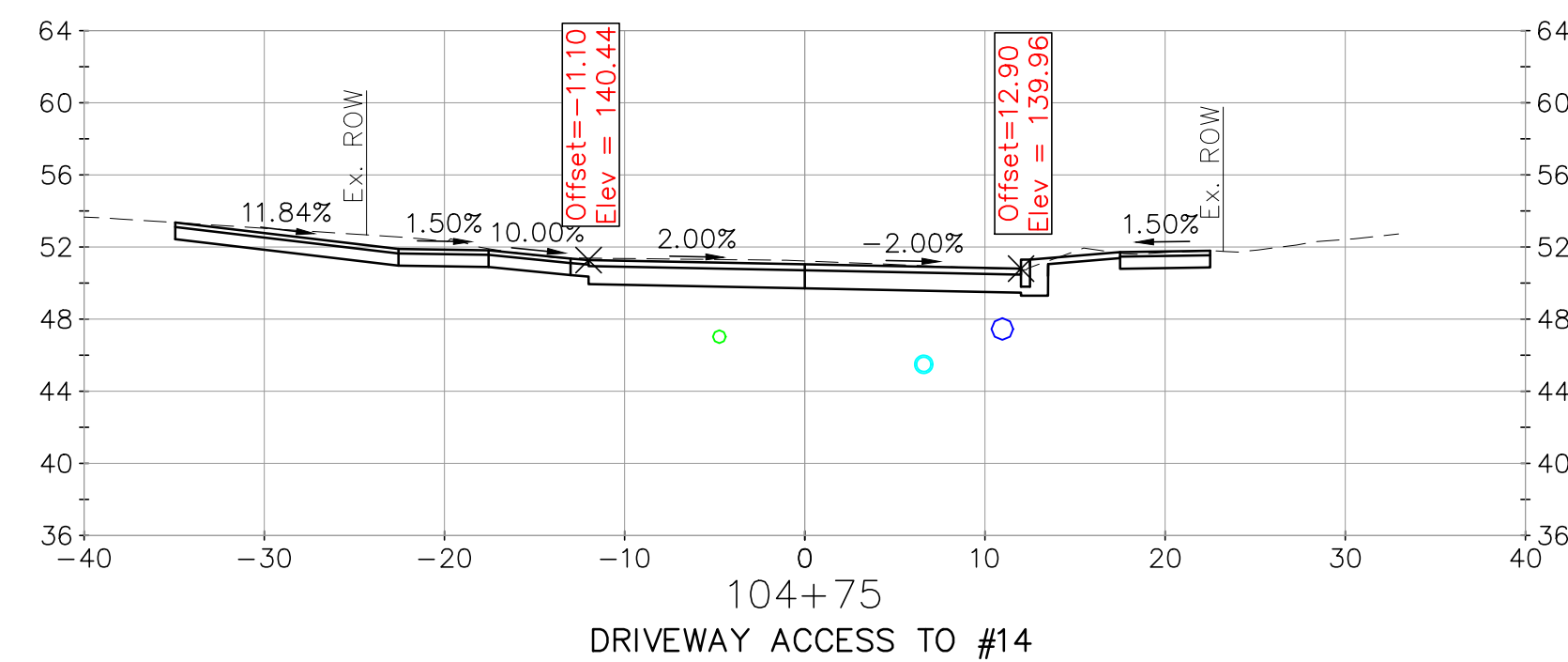
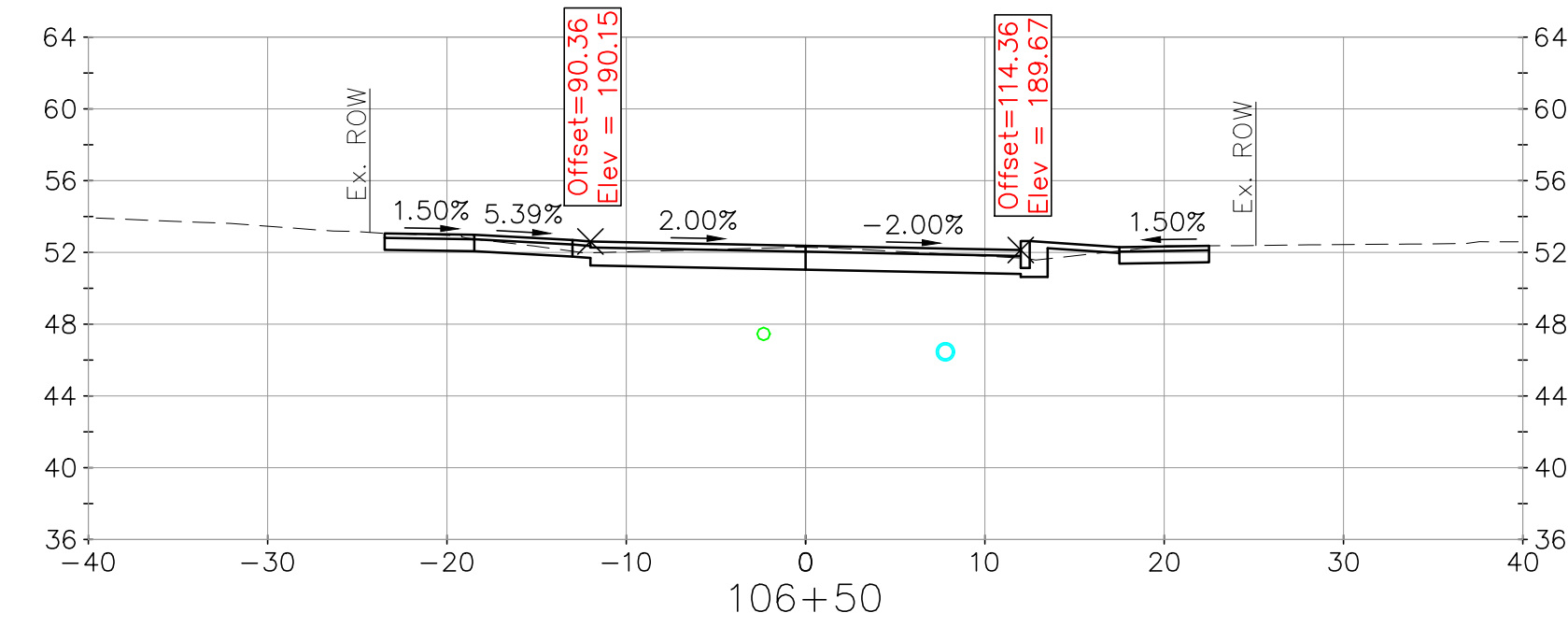
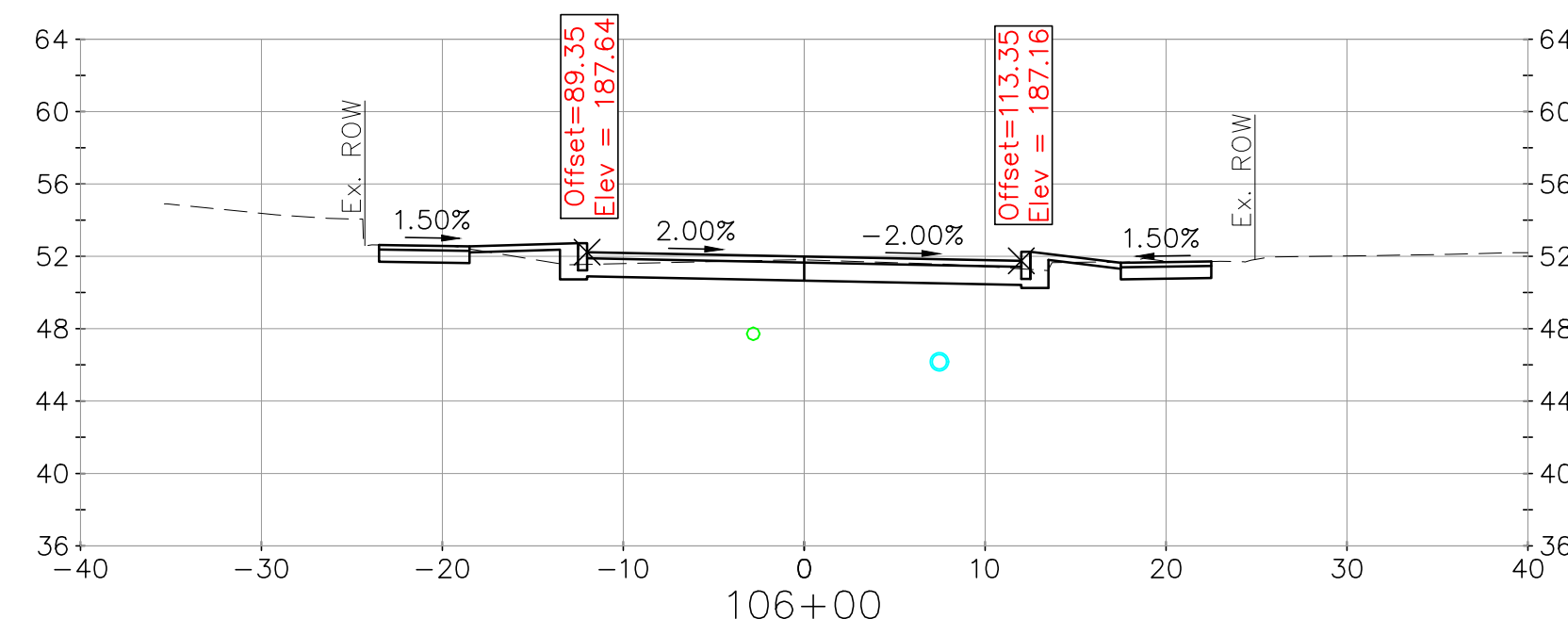
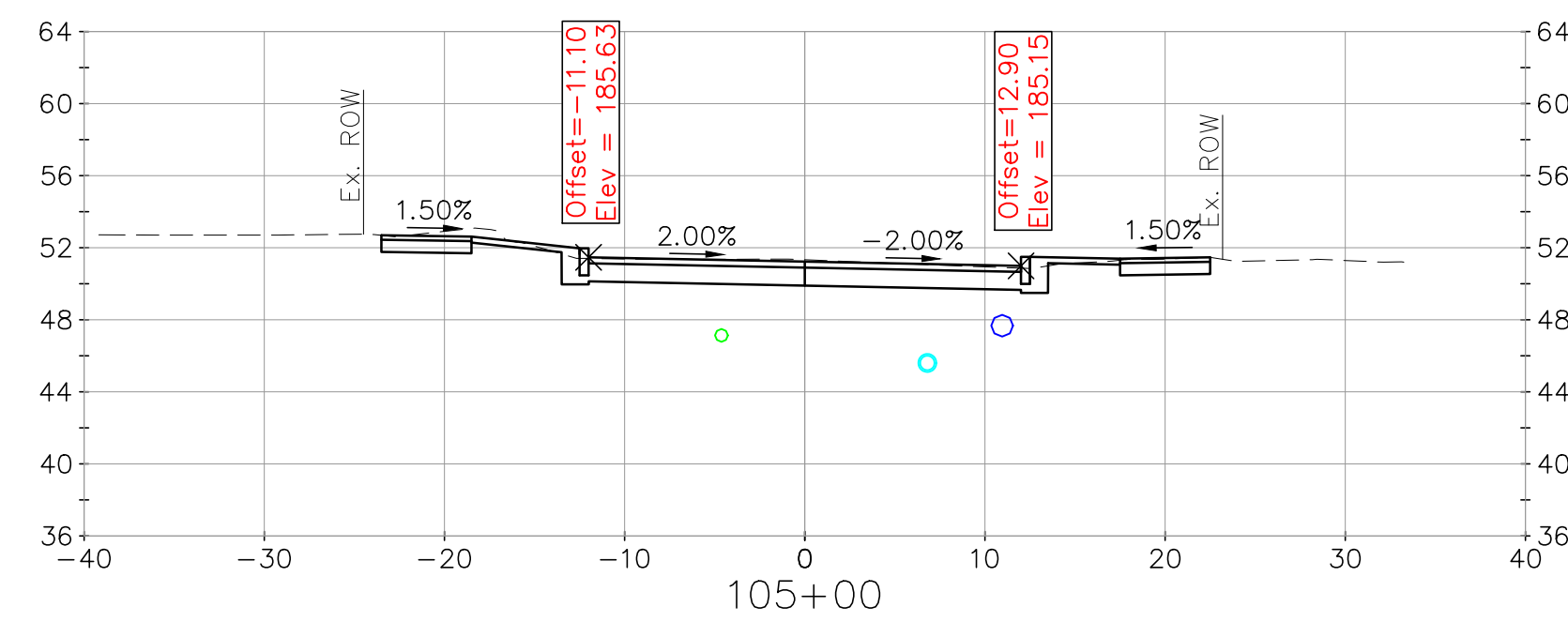


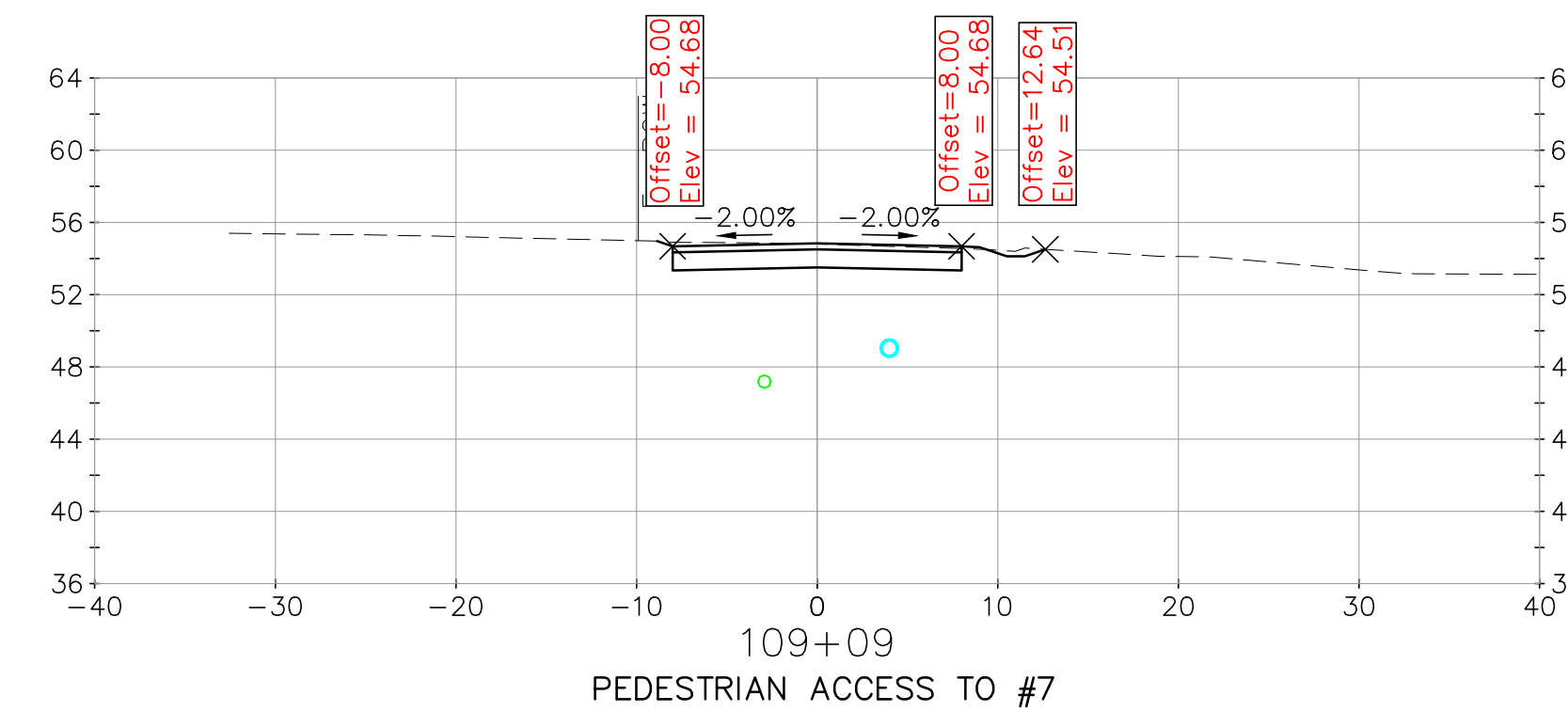
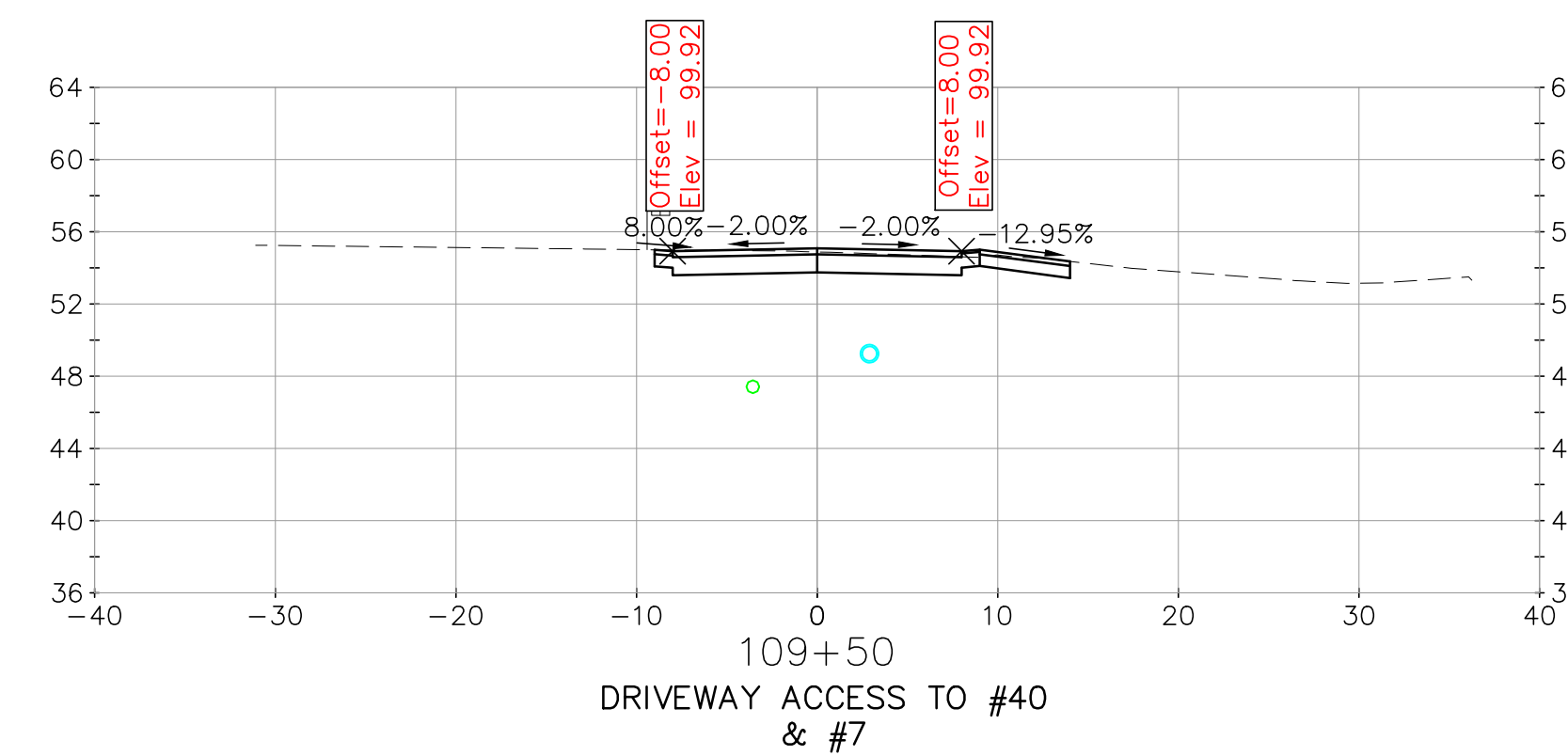
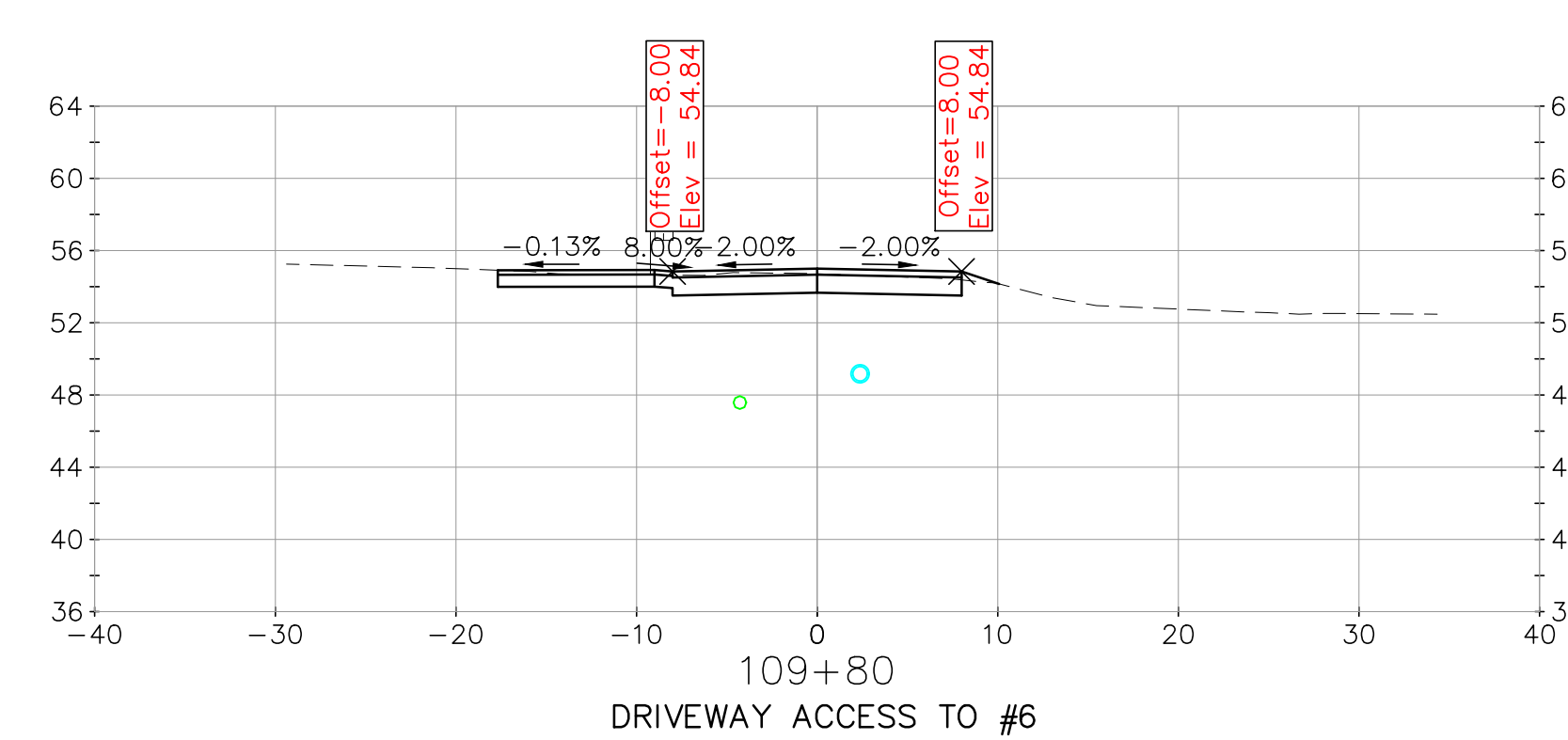
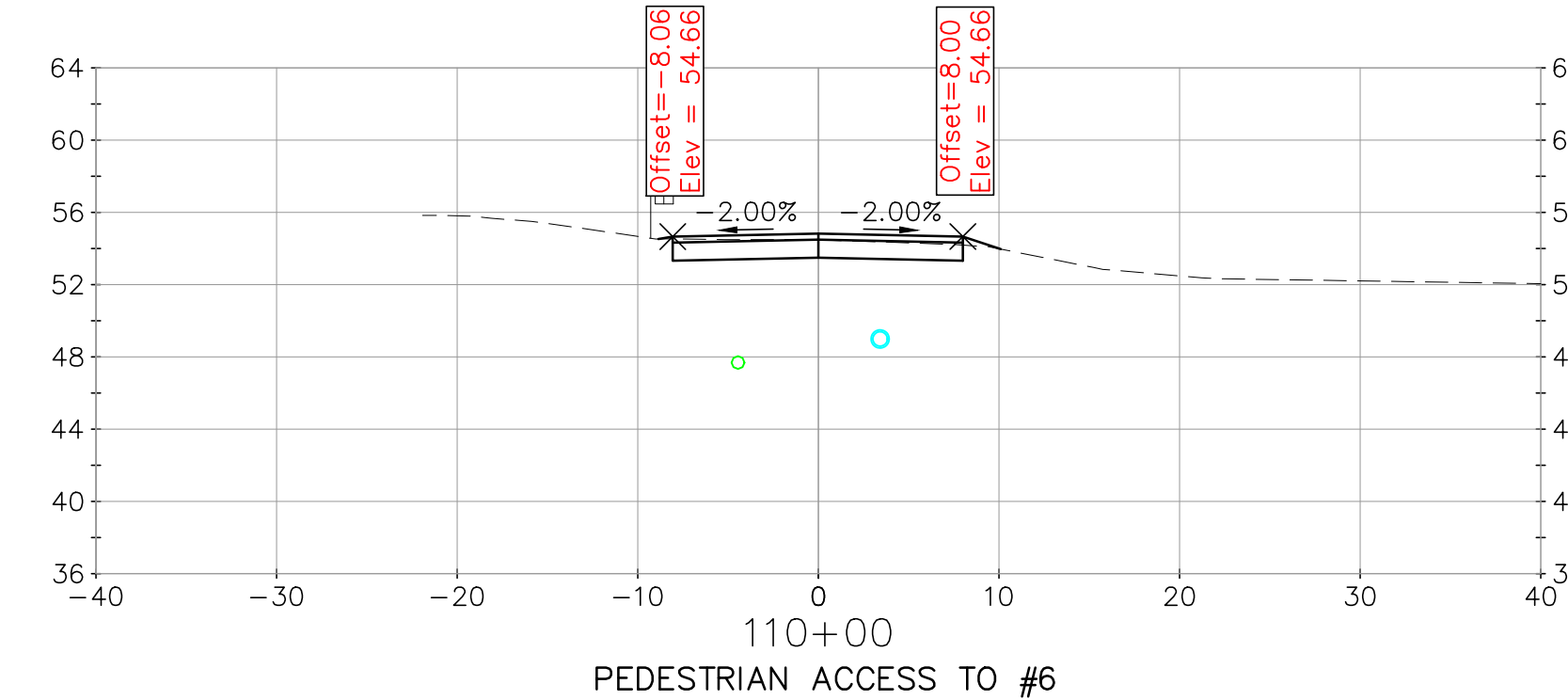
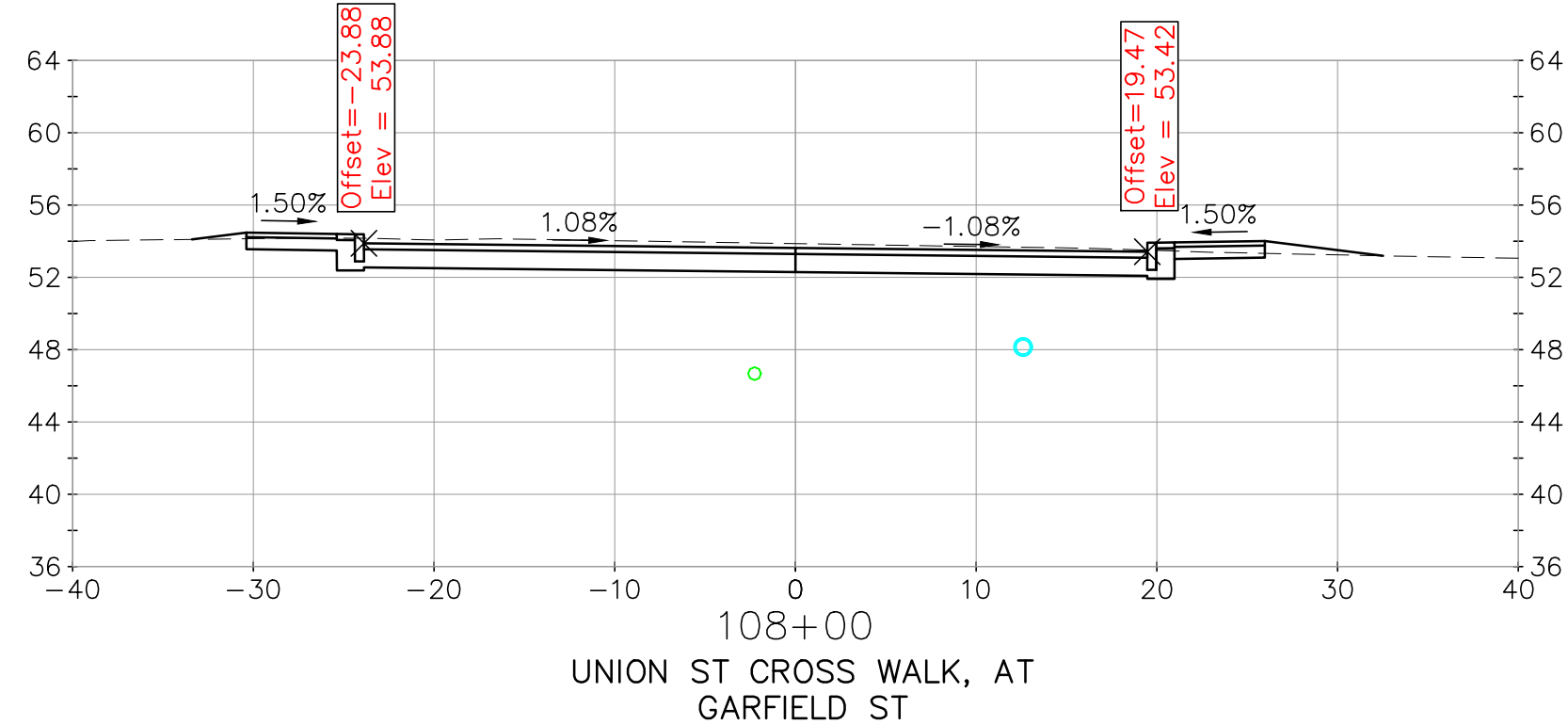
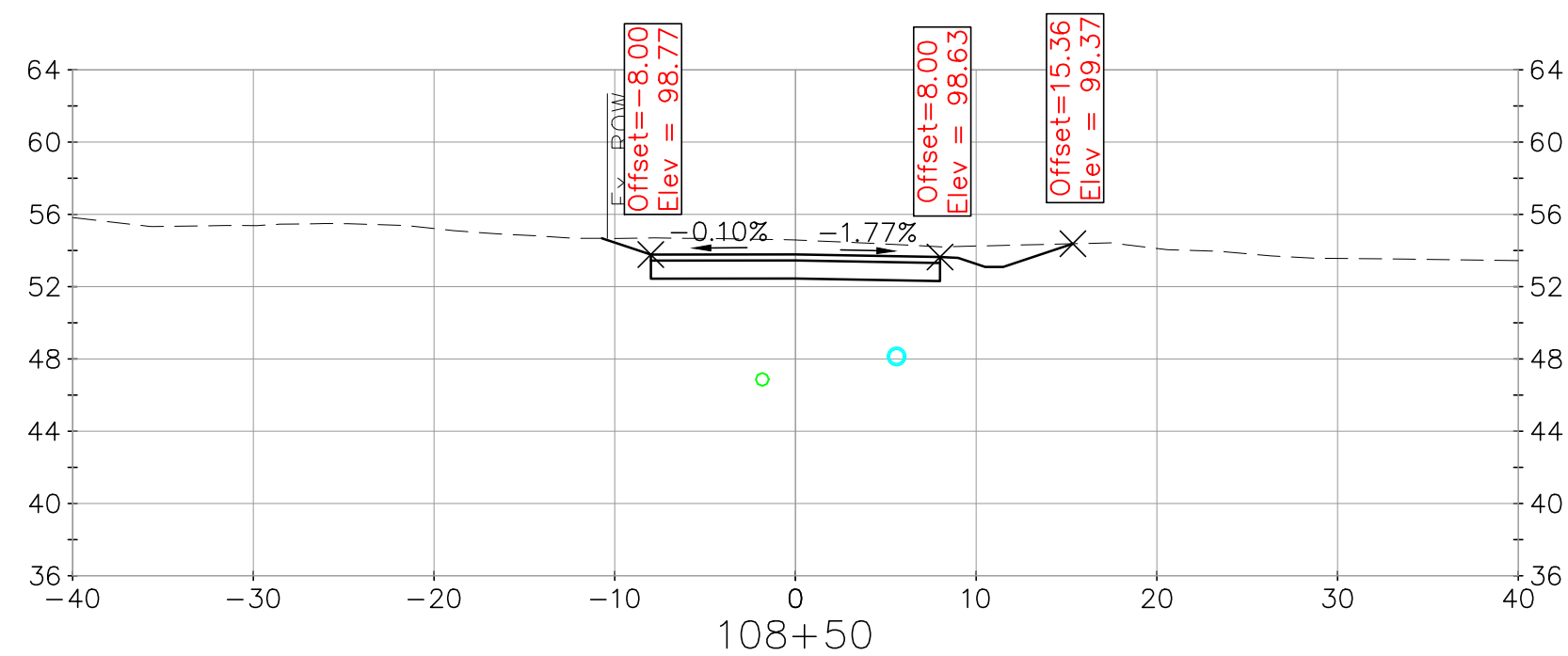
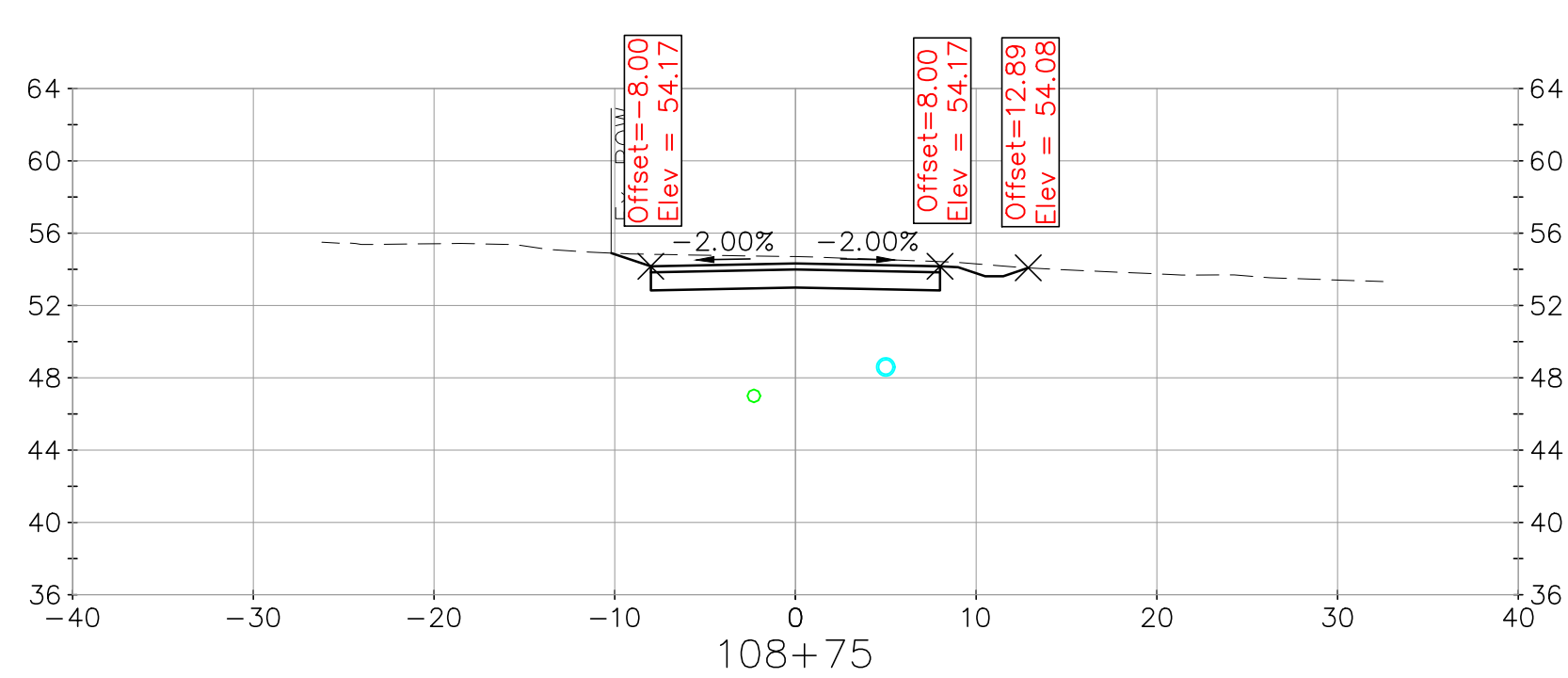
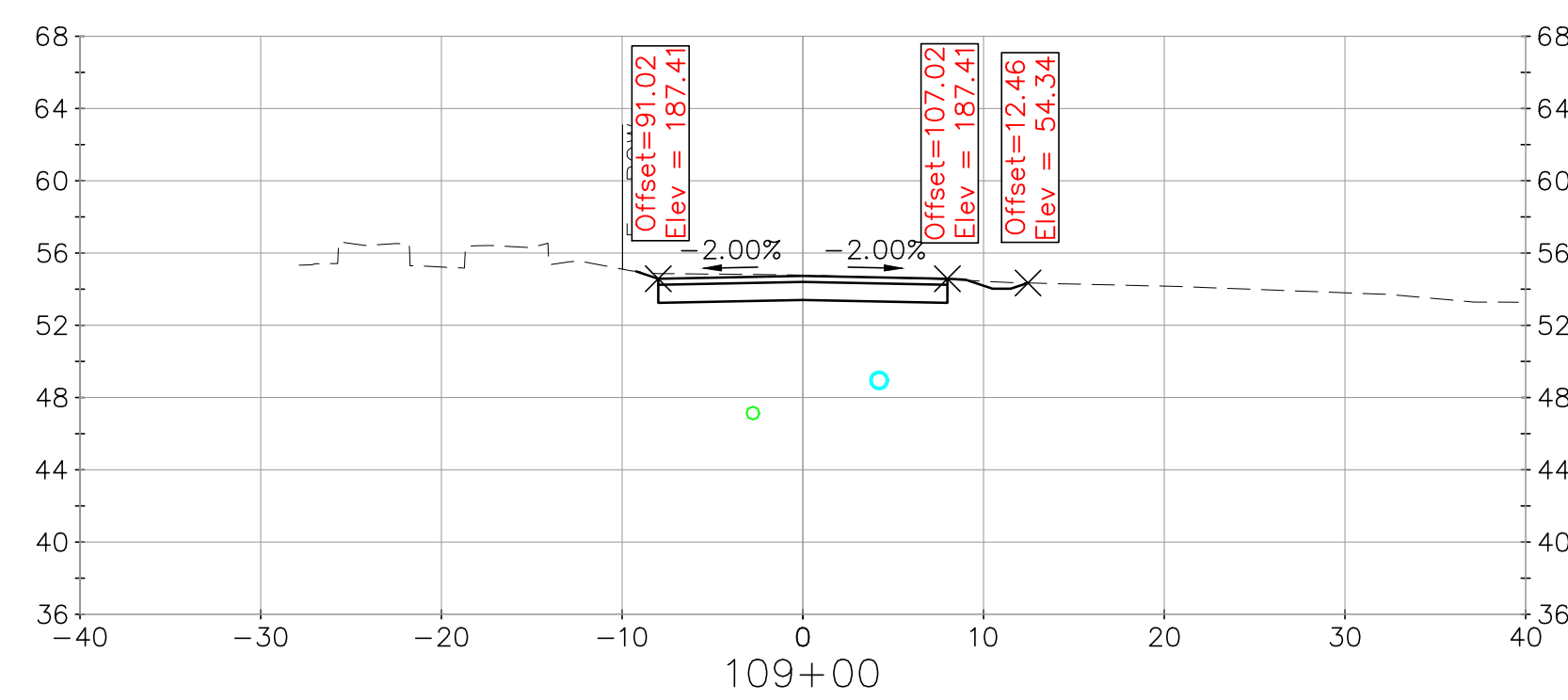
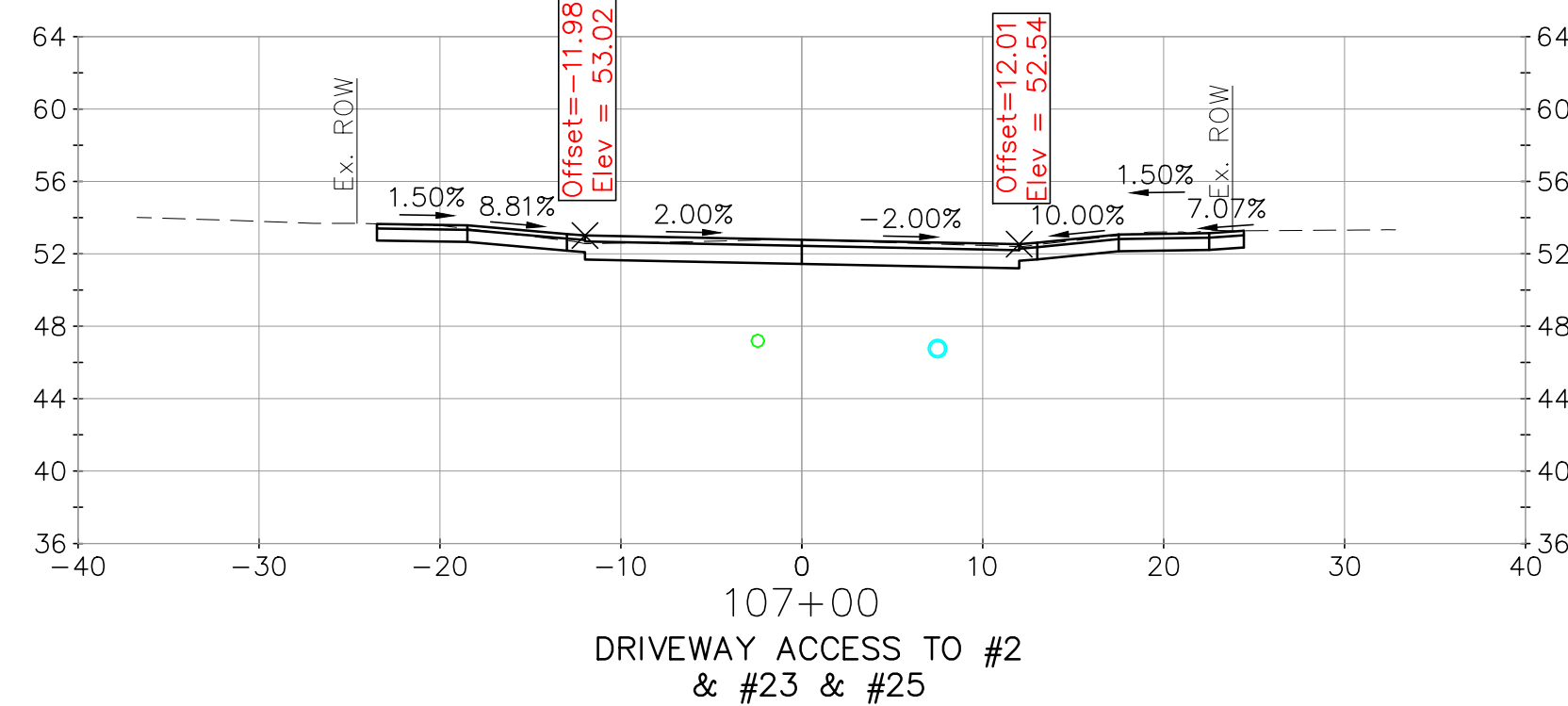
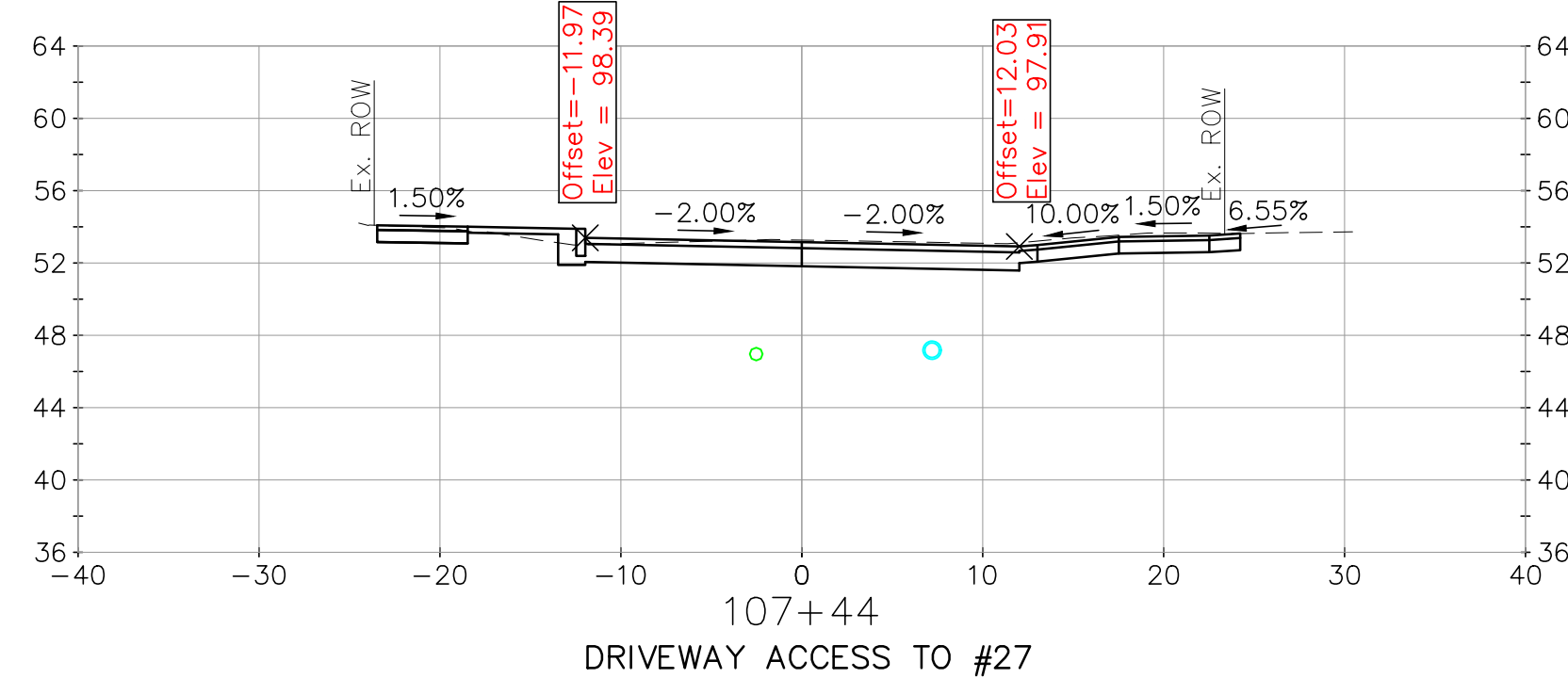
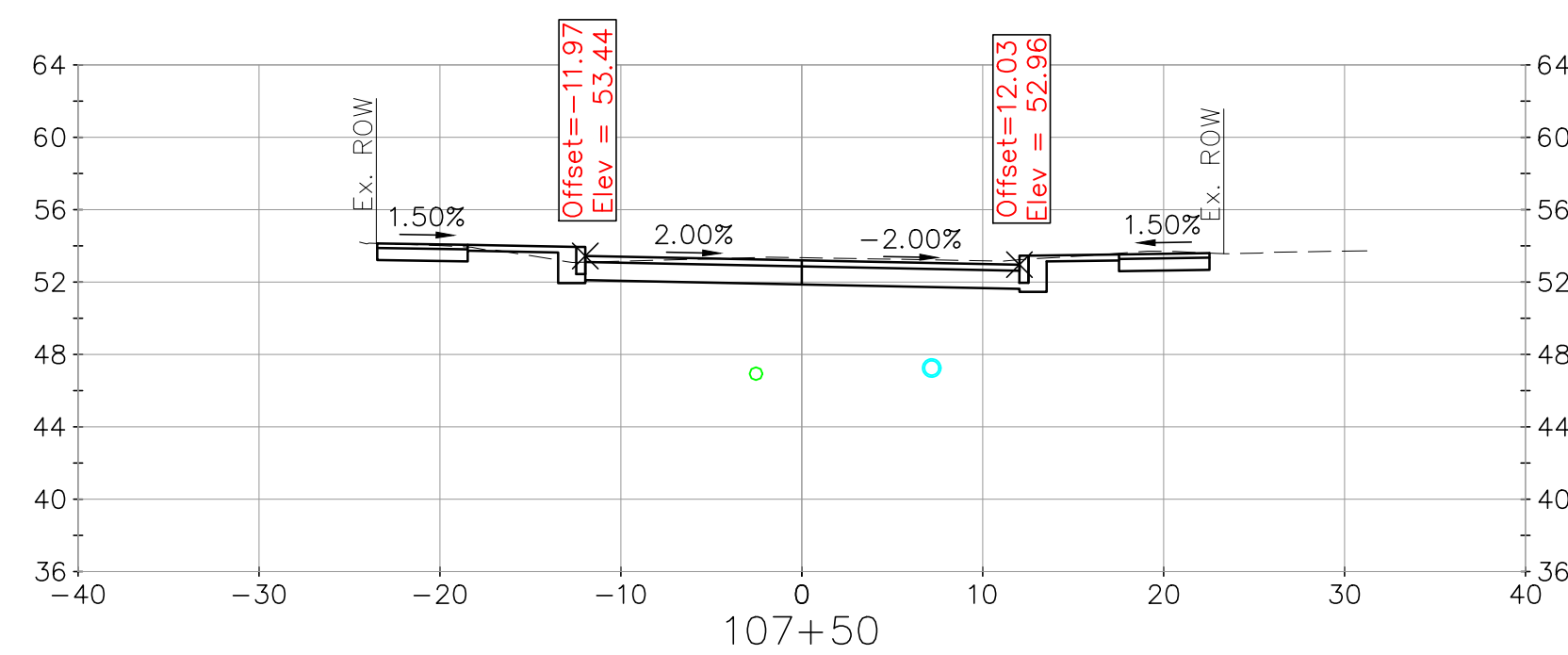
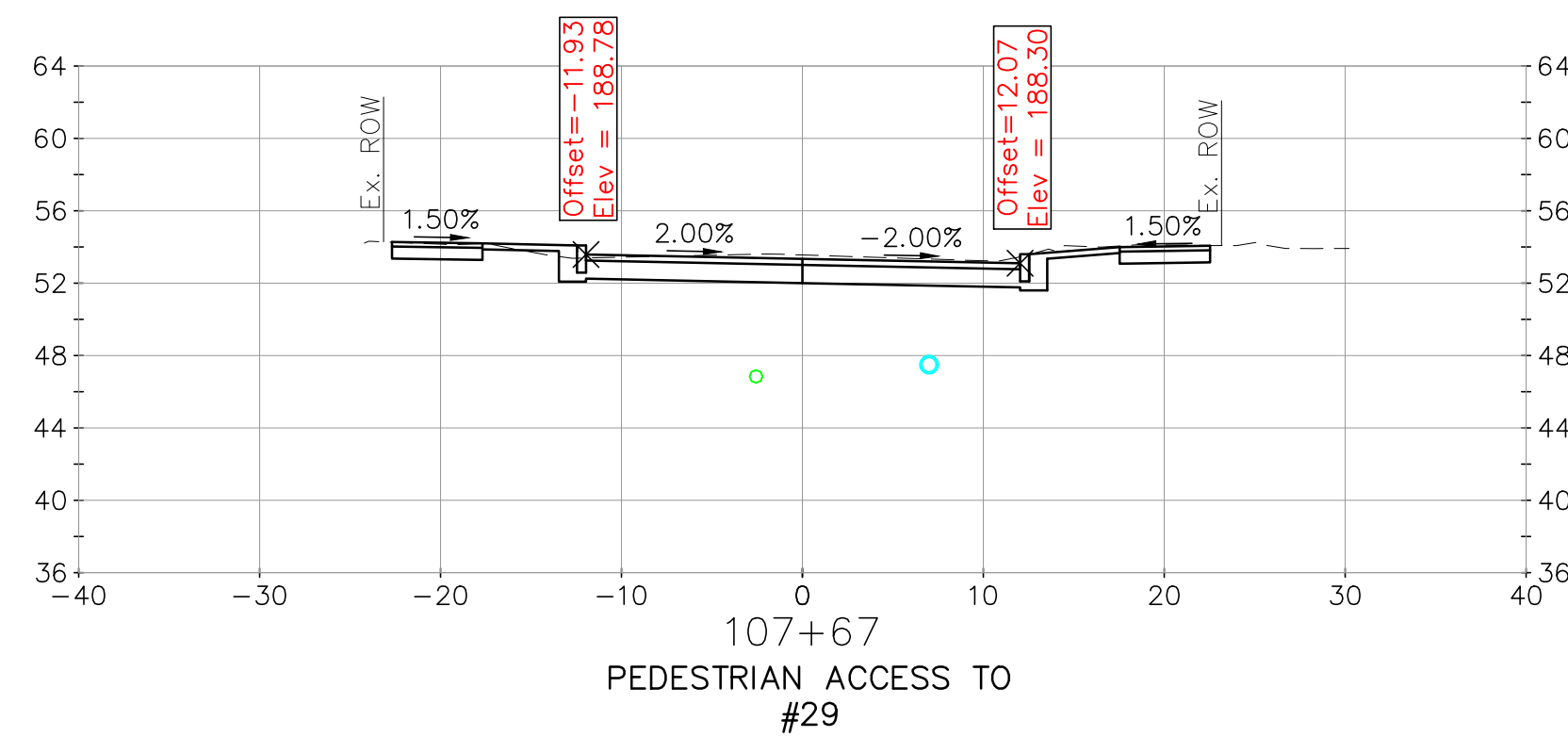
date: July 2026	designed by: CFC/WAB
project no: 1350	drawn by: FDG/CLM
checked by: PAC	approved by: PAC
scale:	

Town of Exeter, New Hampshire Department of Public Works
School Street Area Utility Improvement Project
Cross Sections Union Street

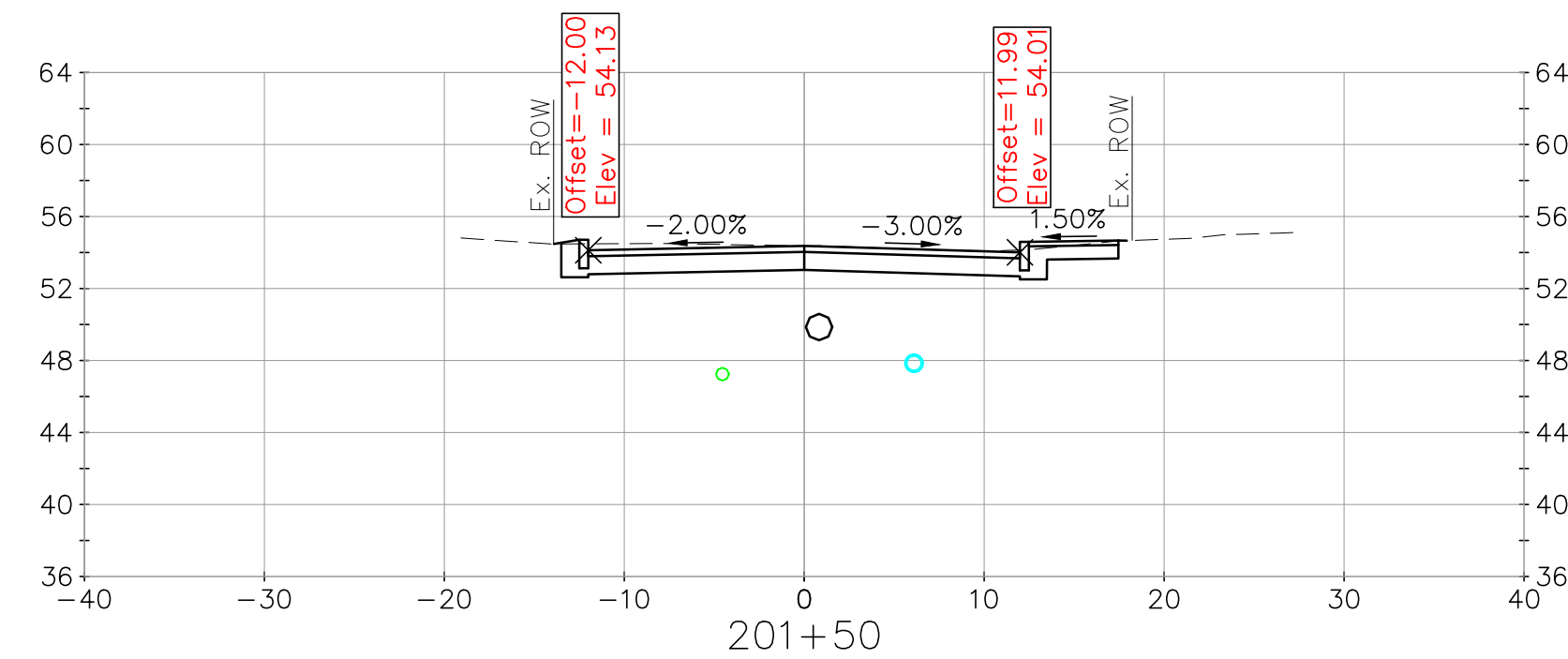
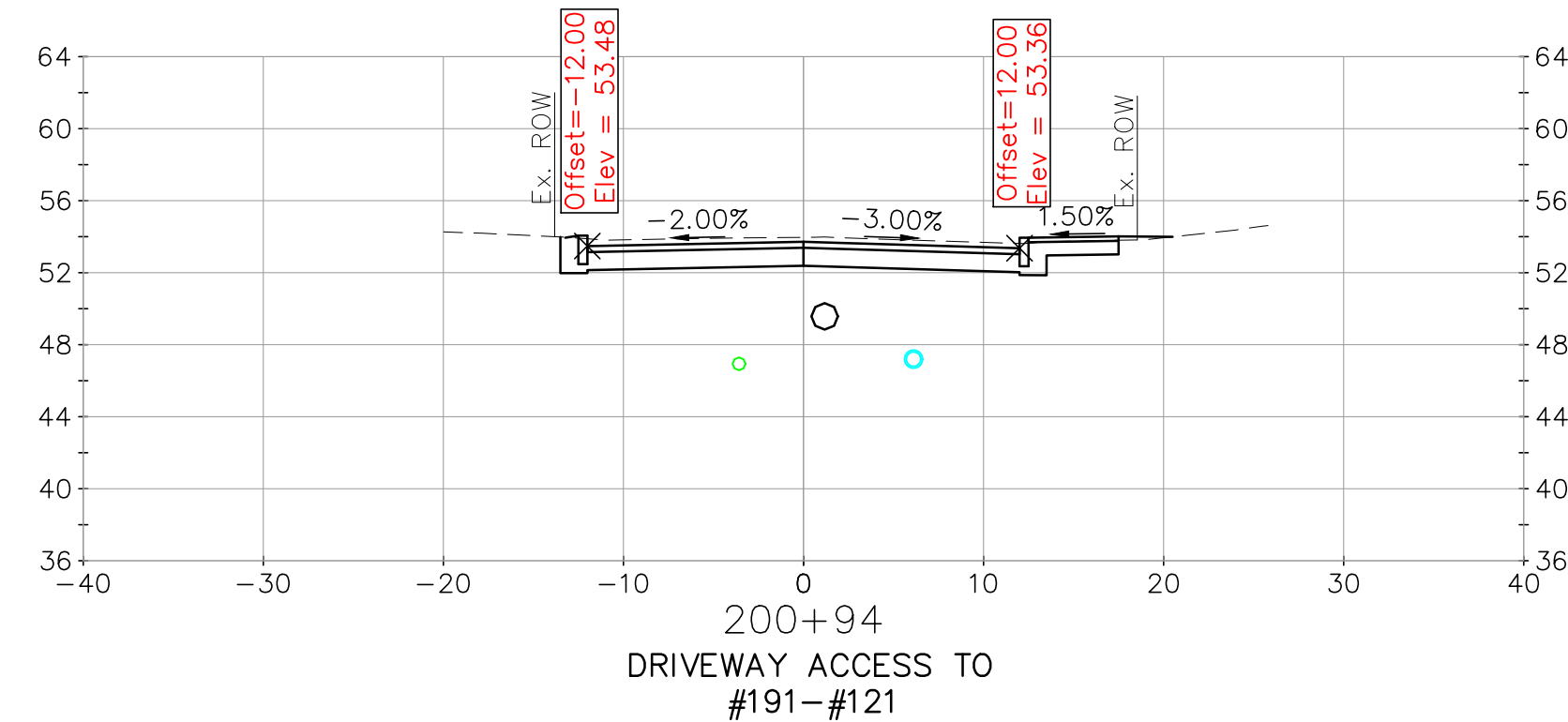
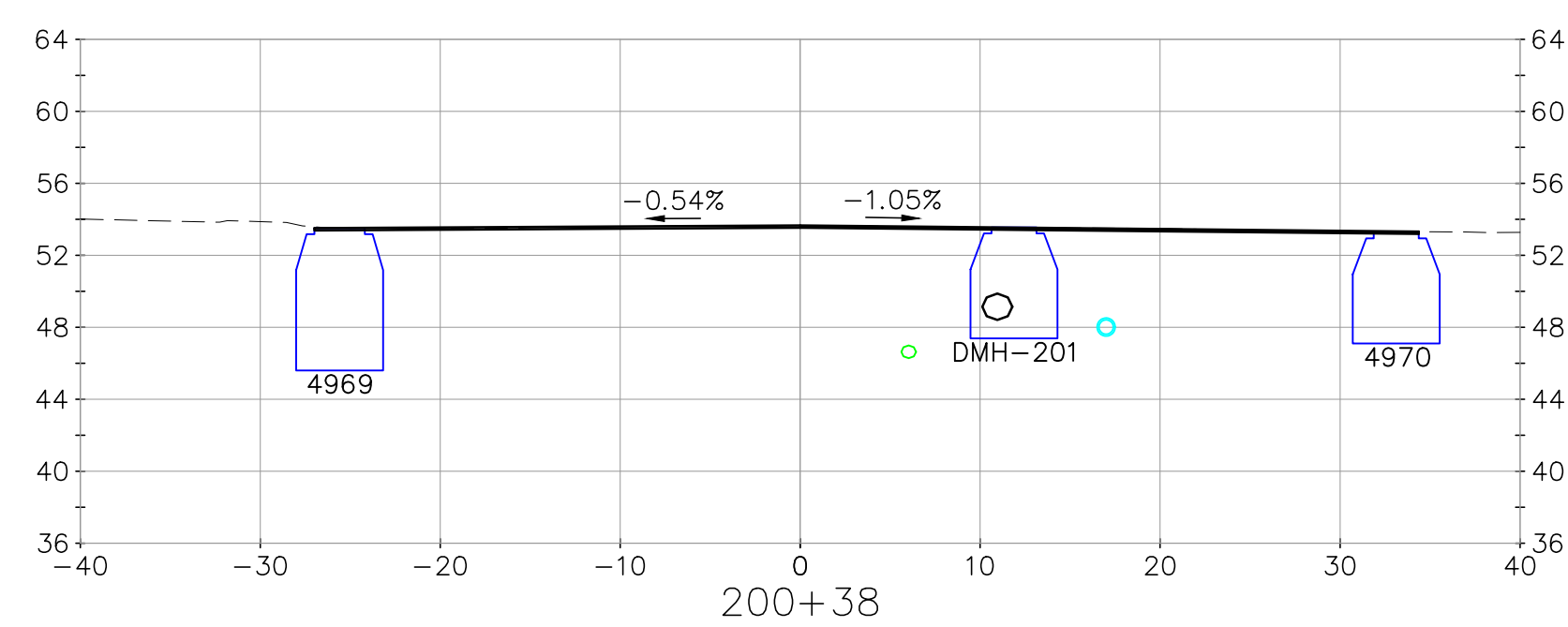
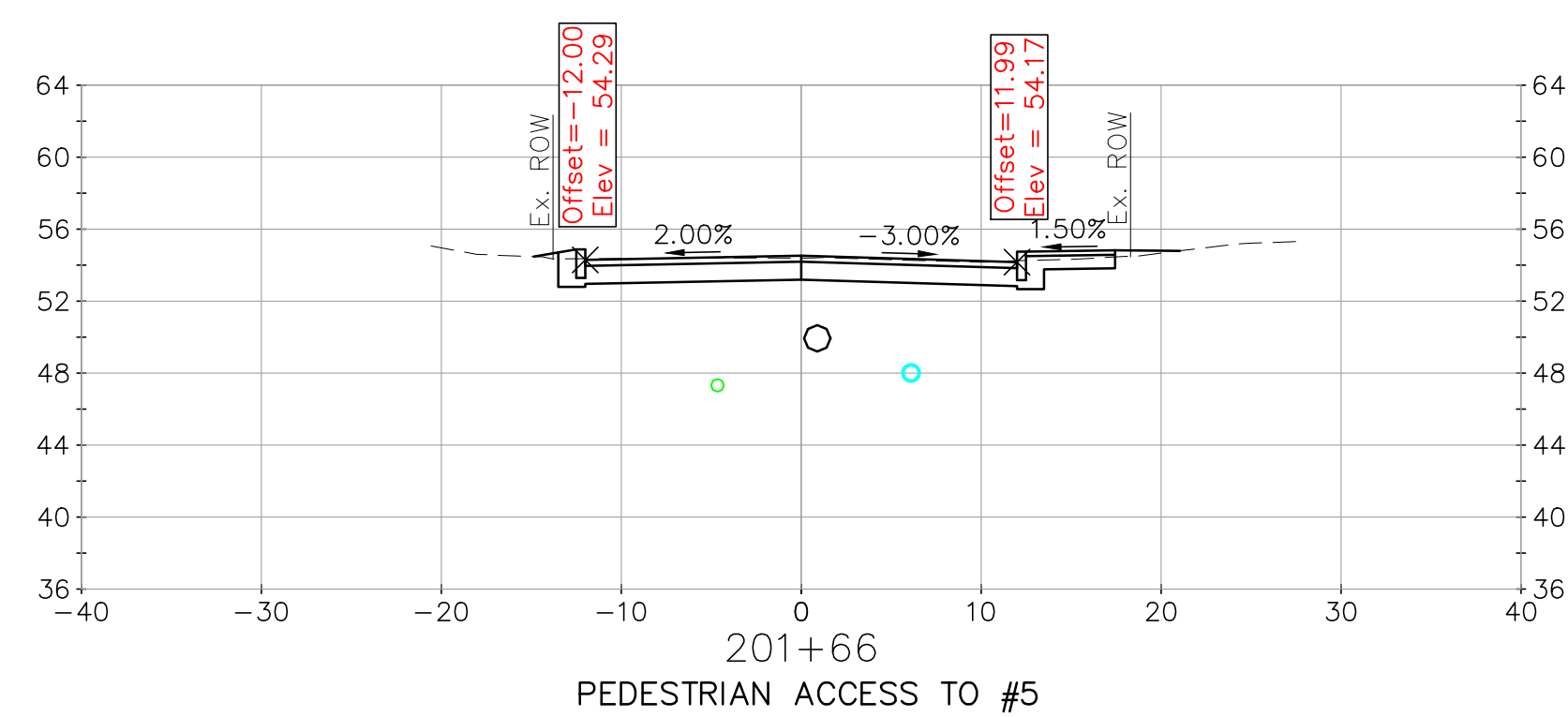
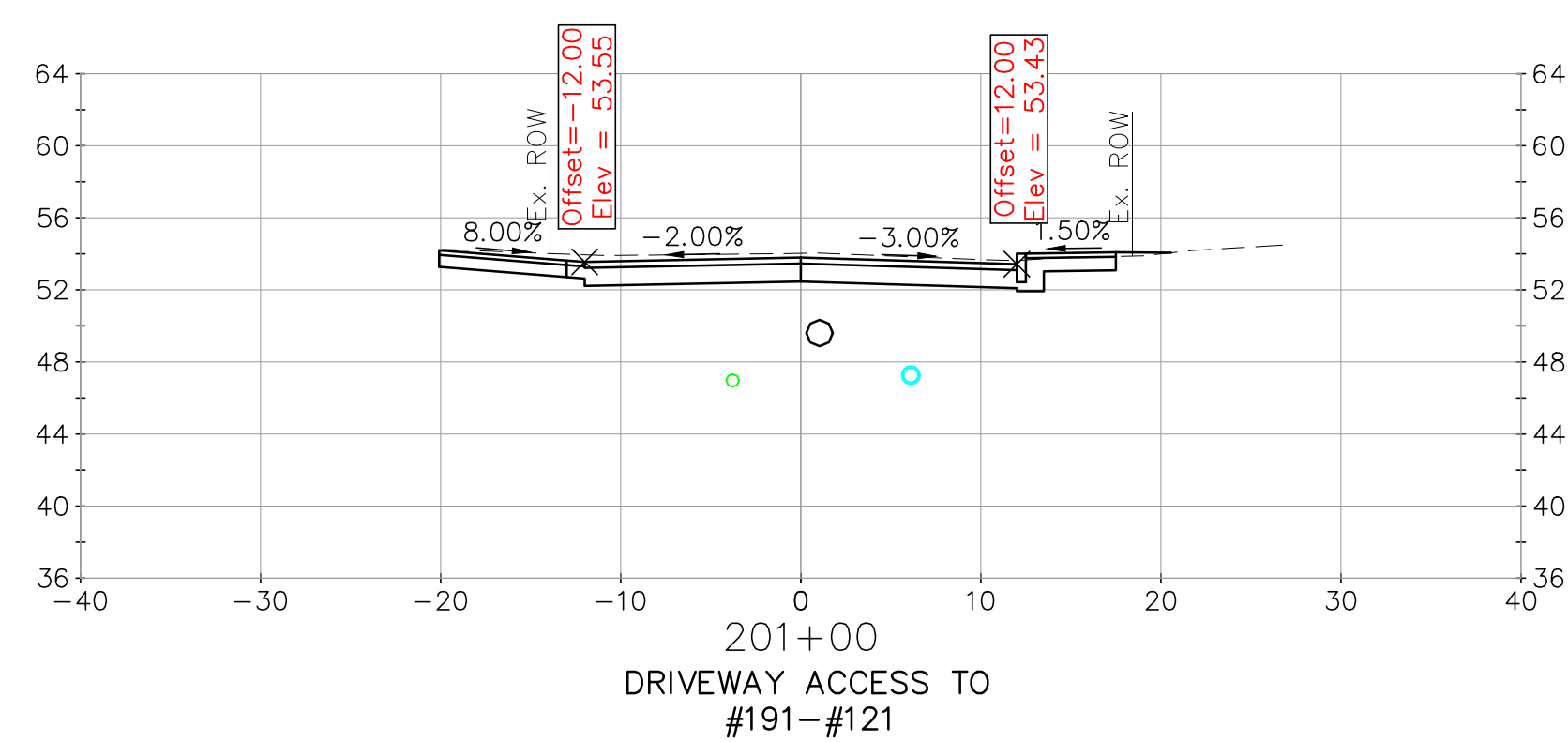
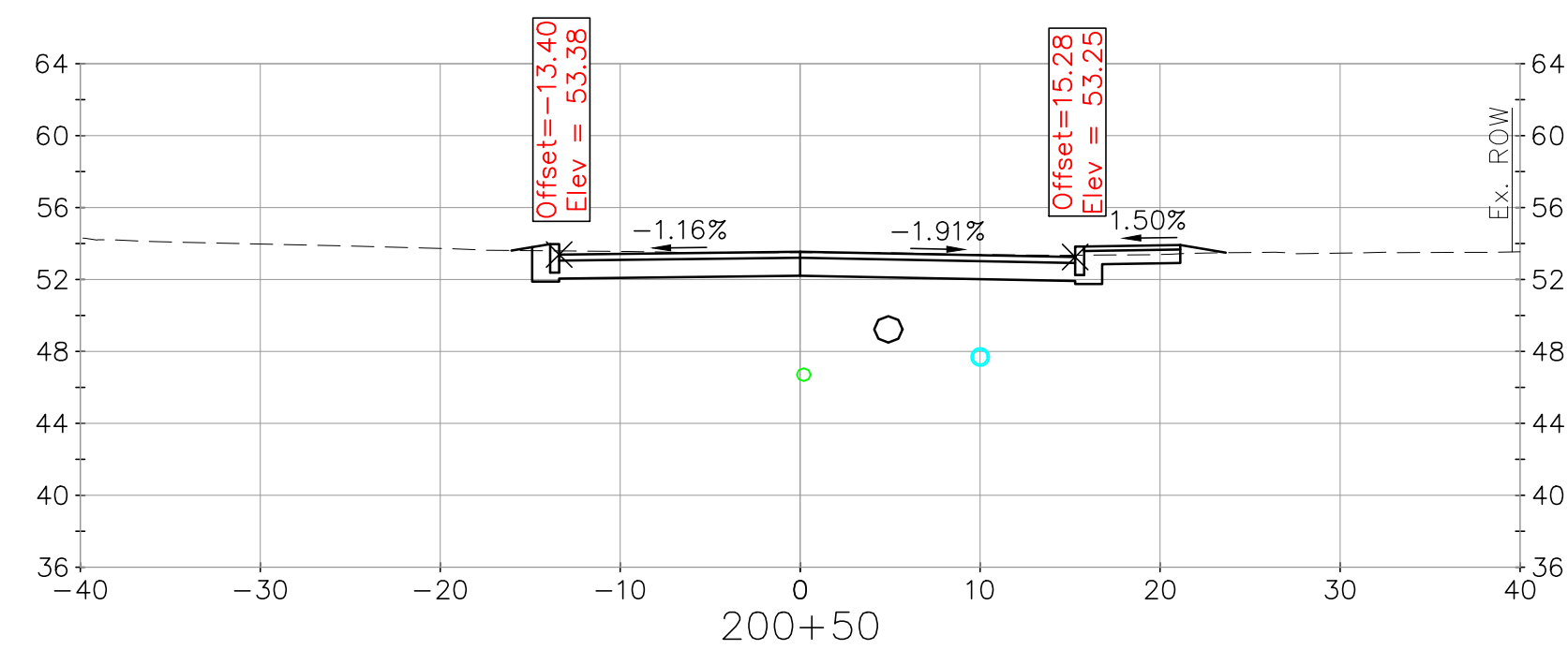
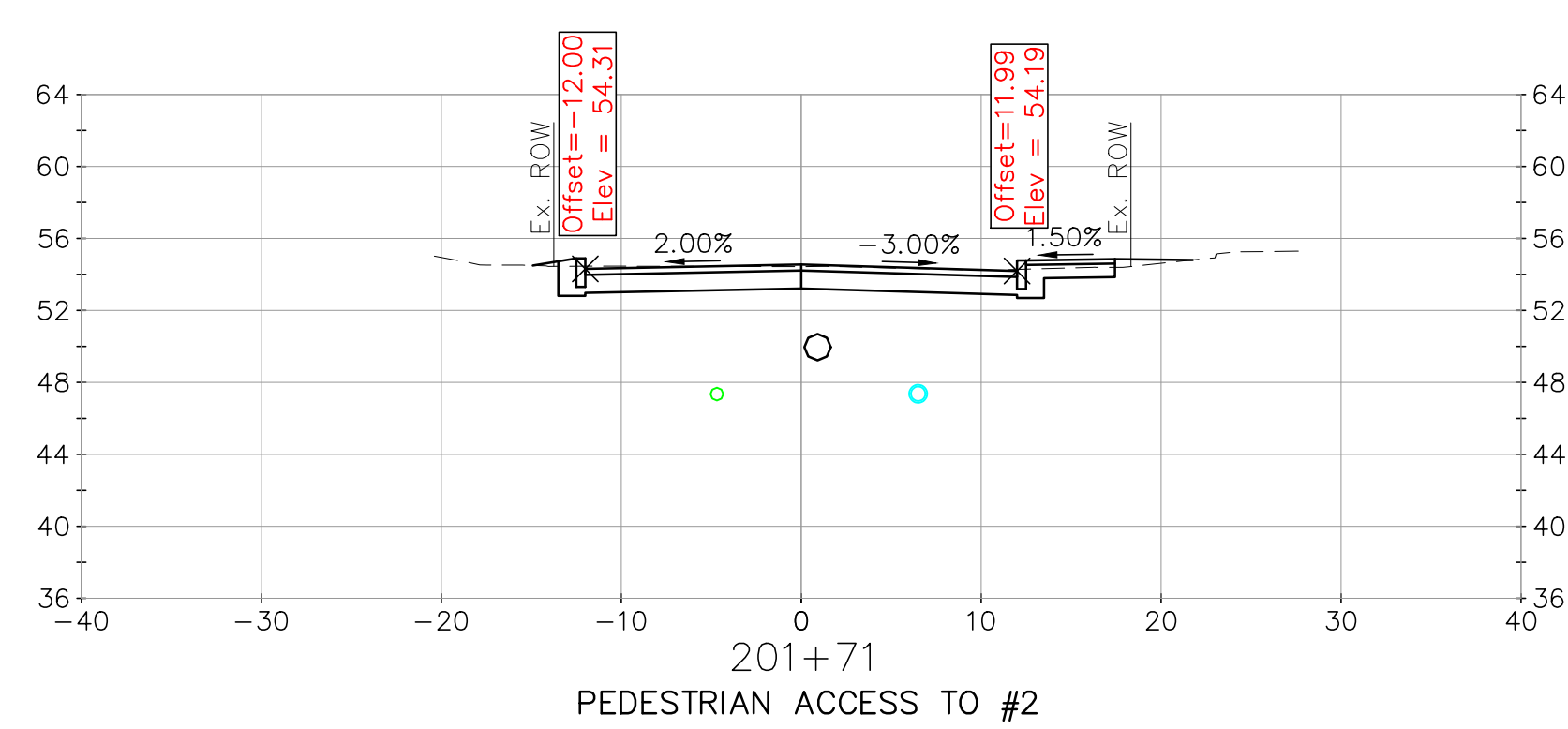
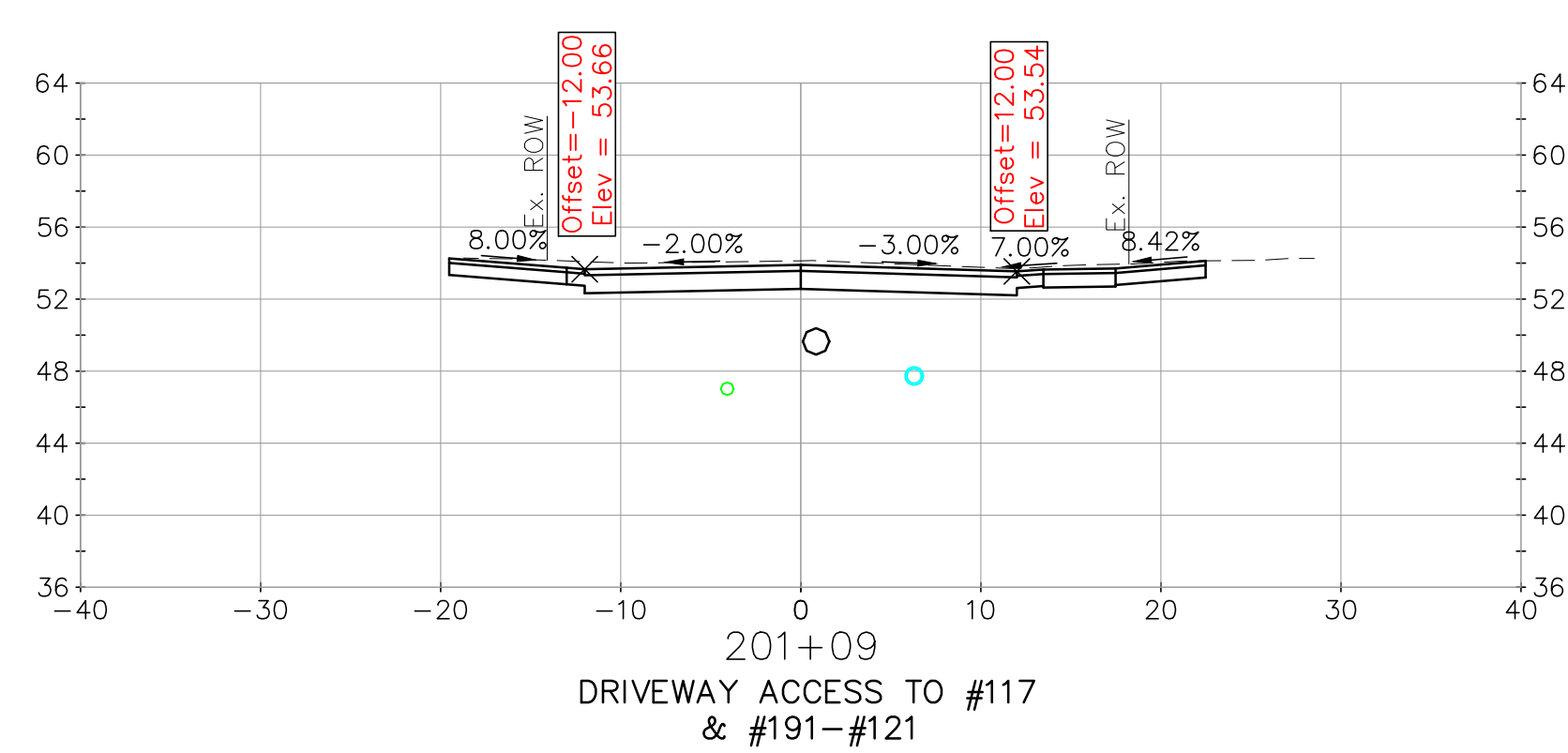
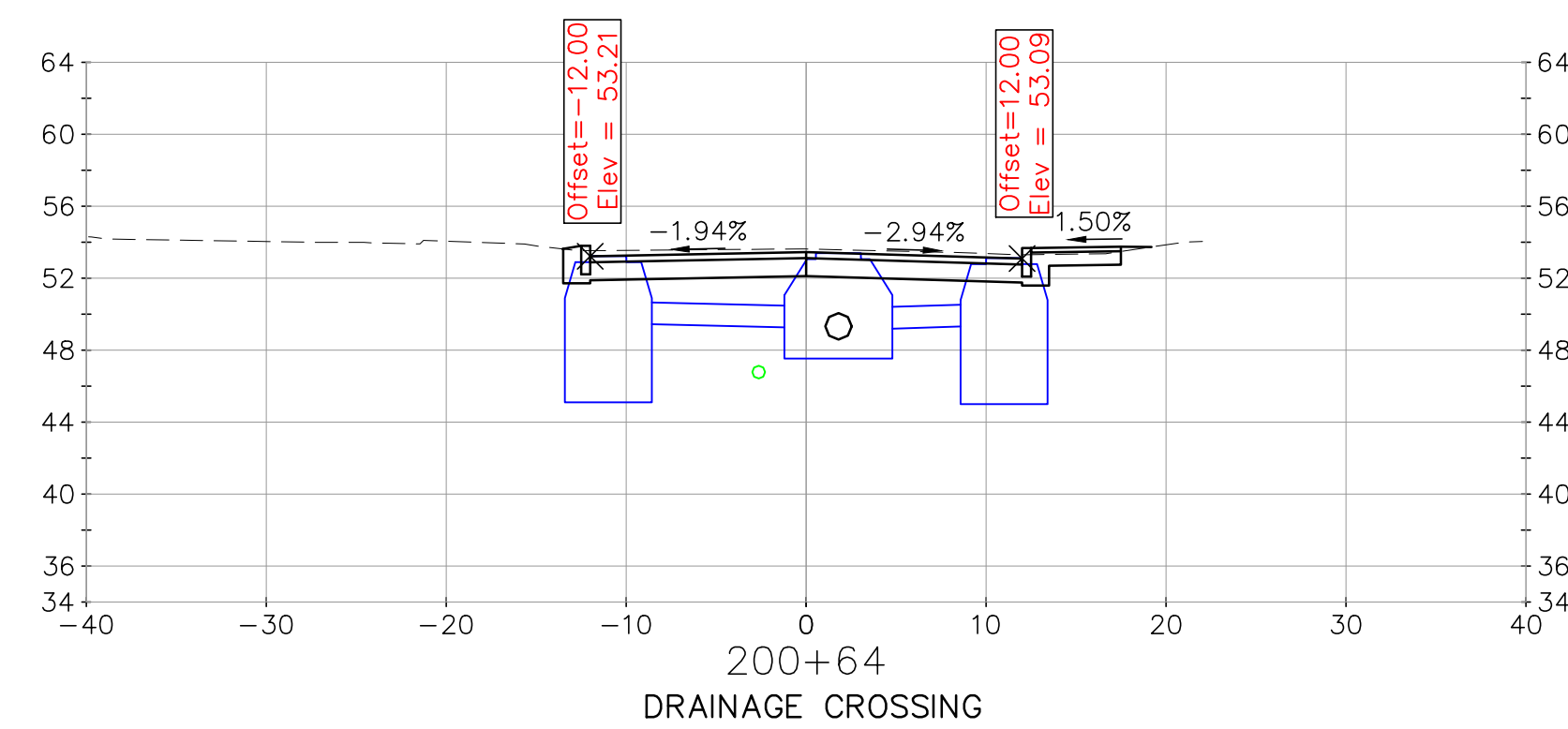
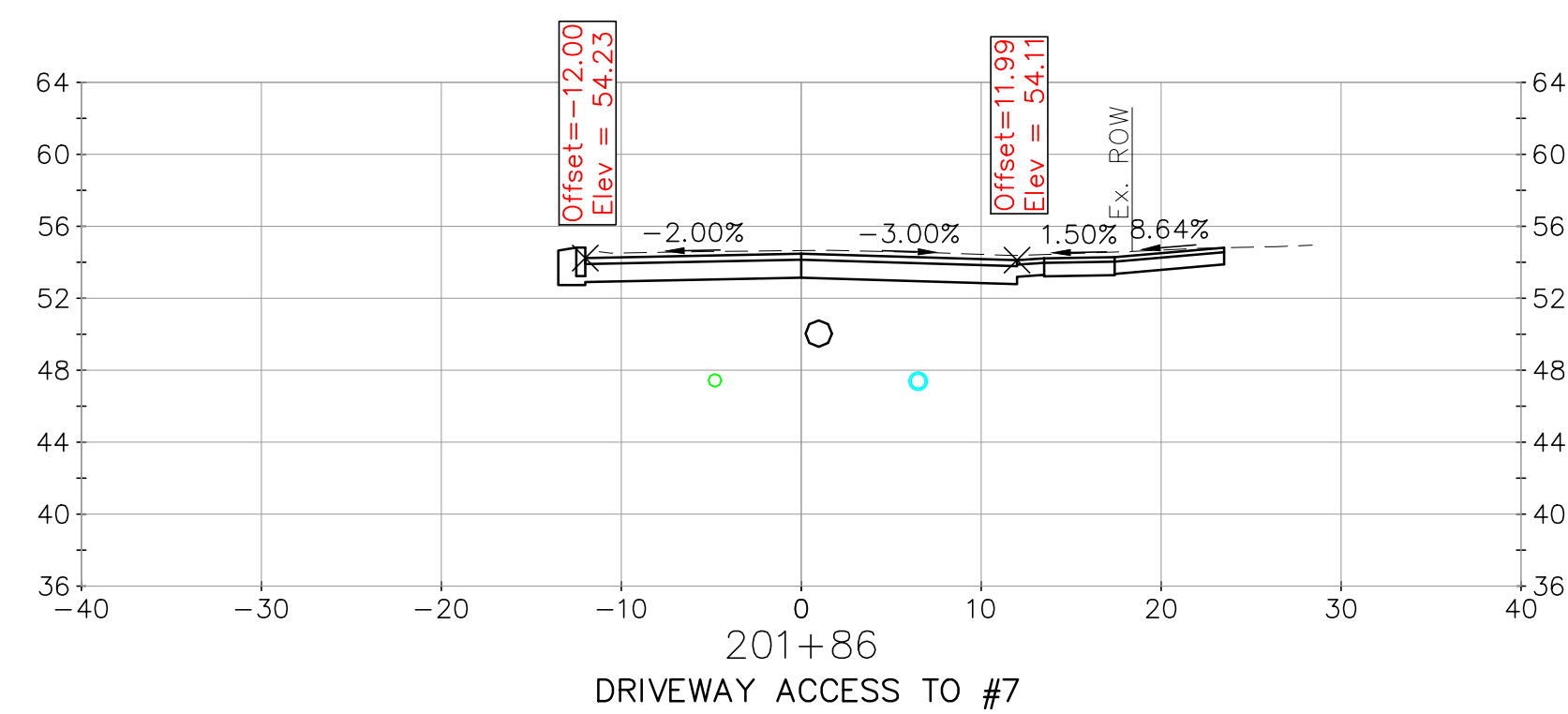
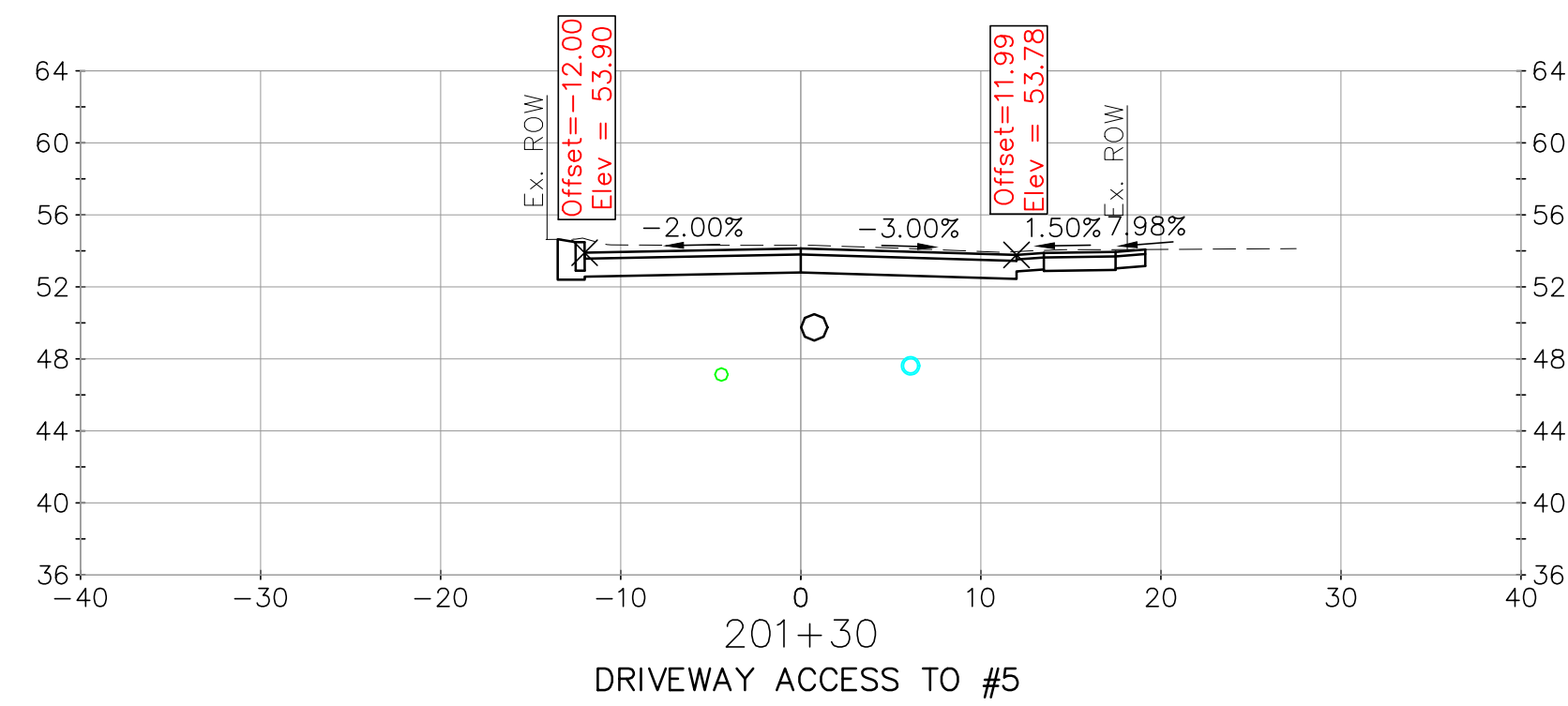
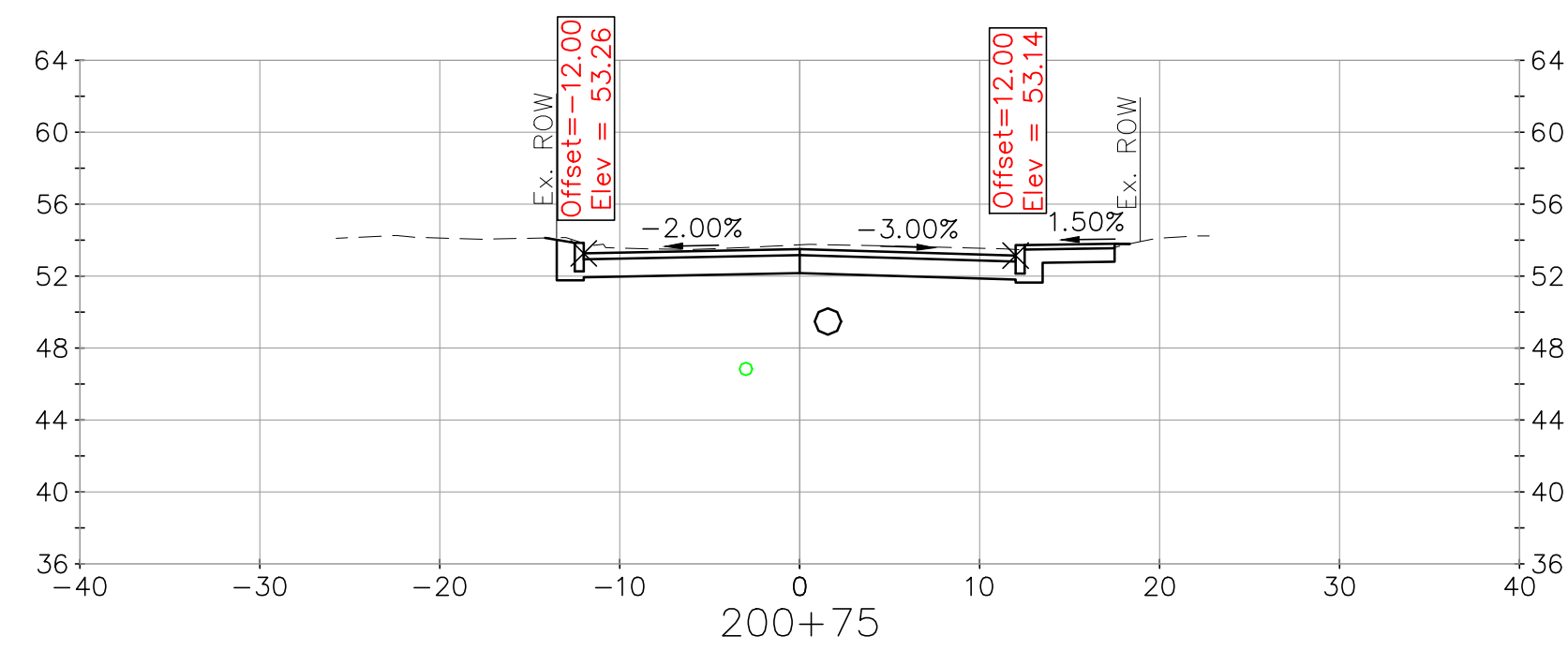
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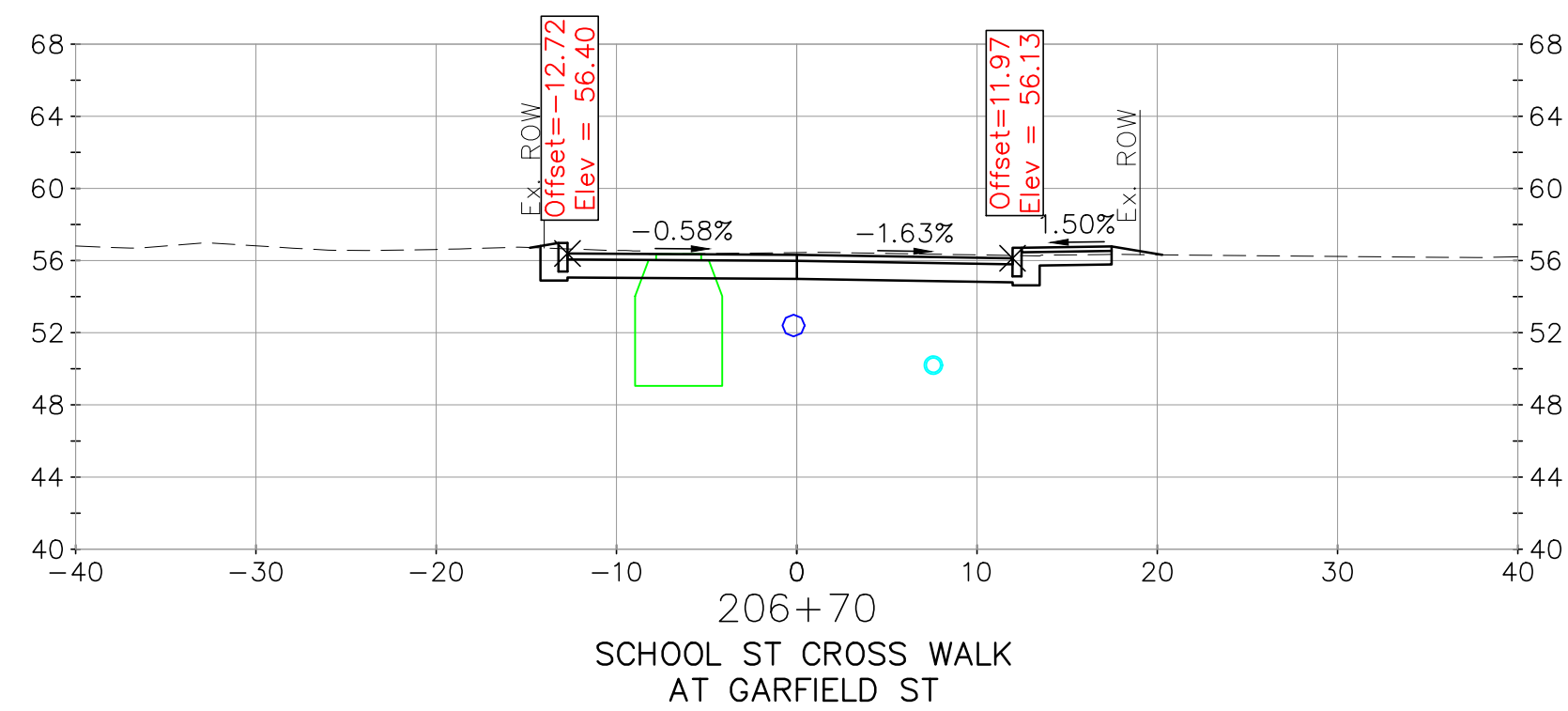
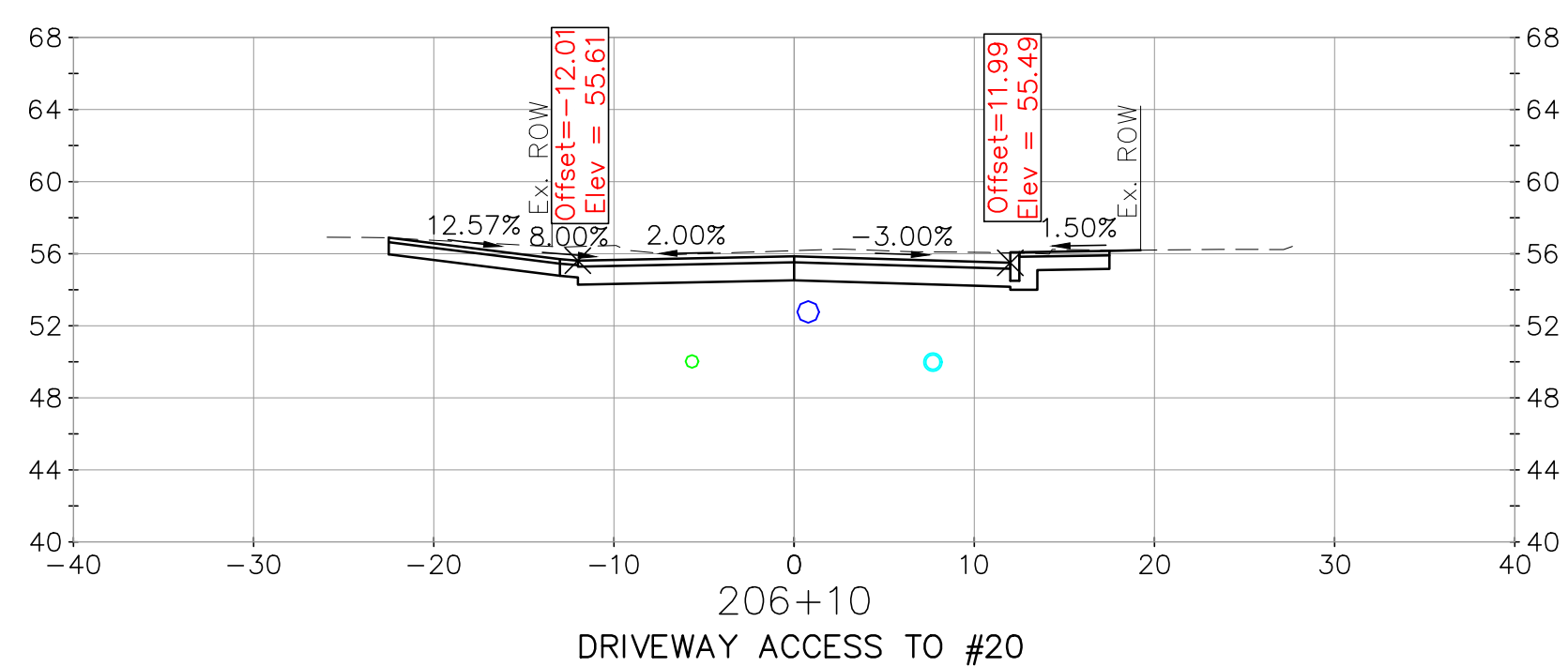
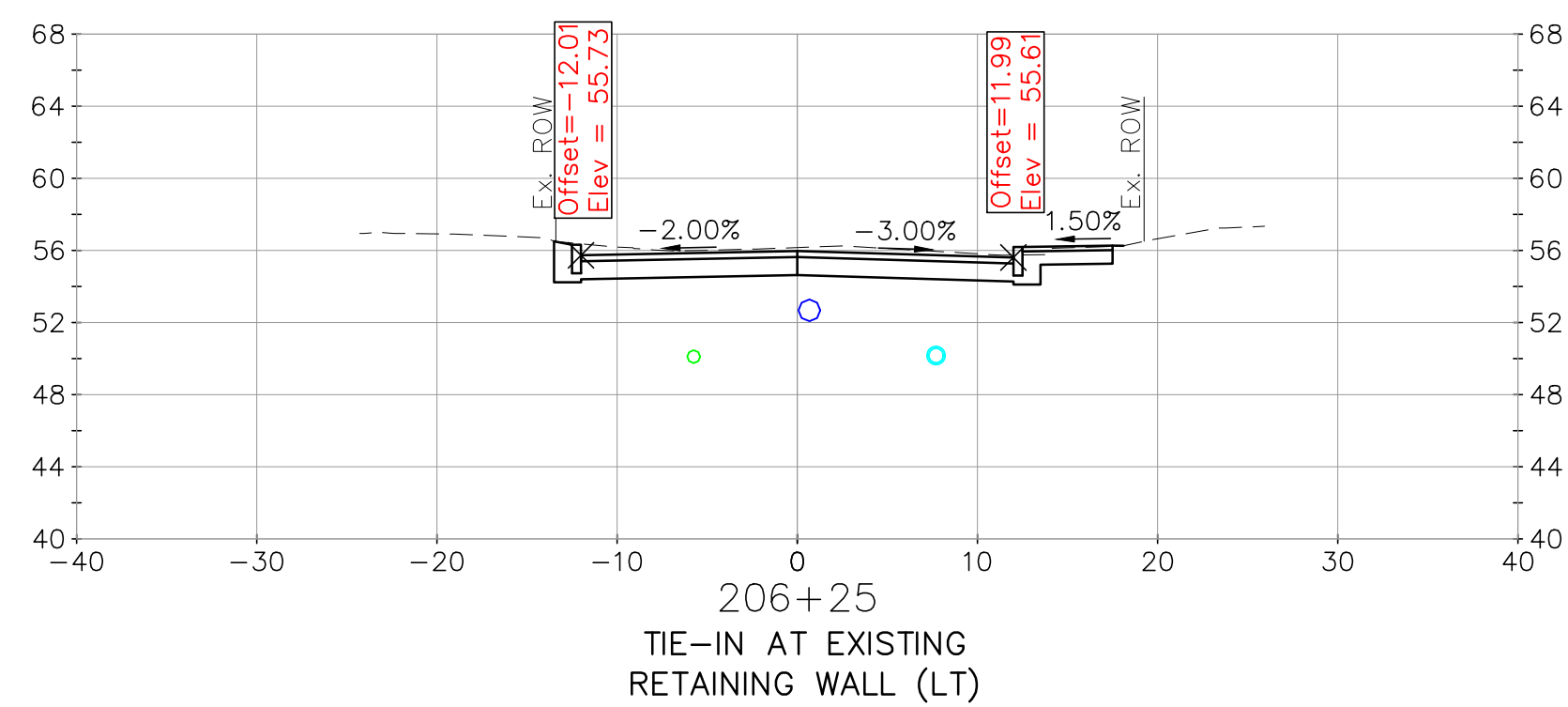
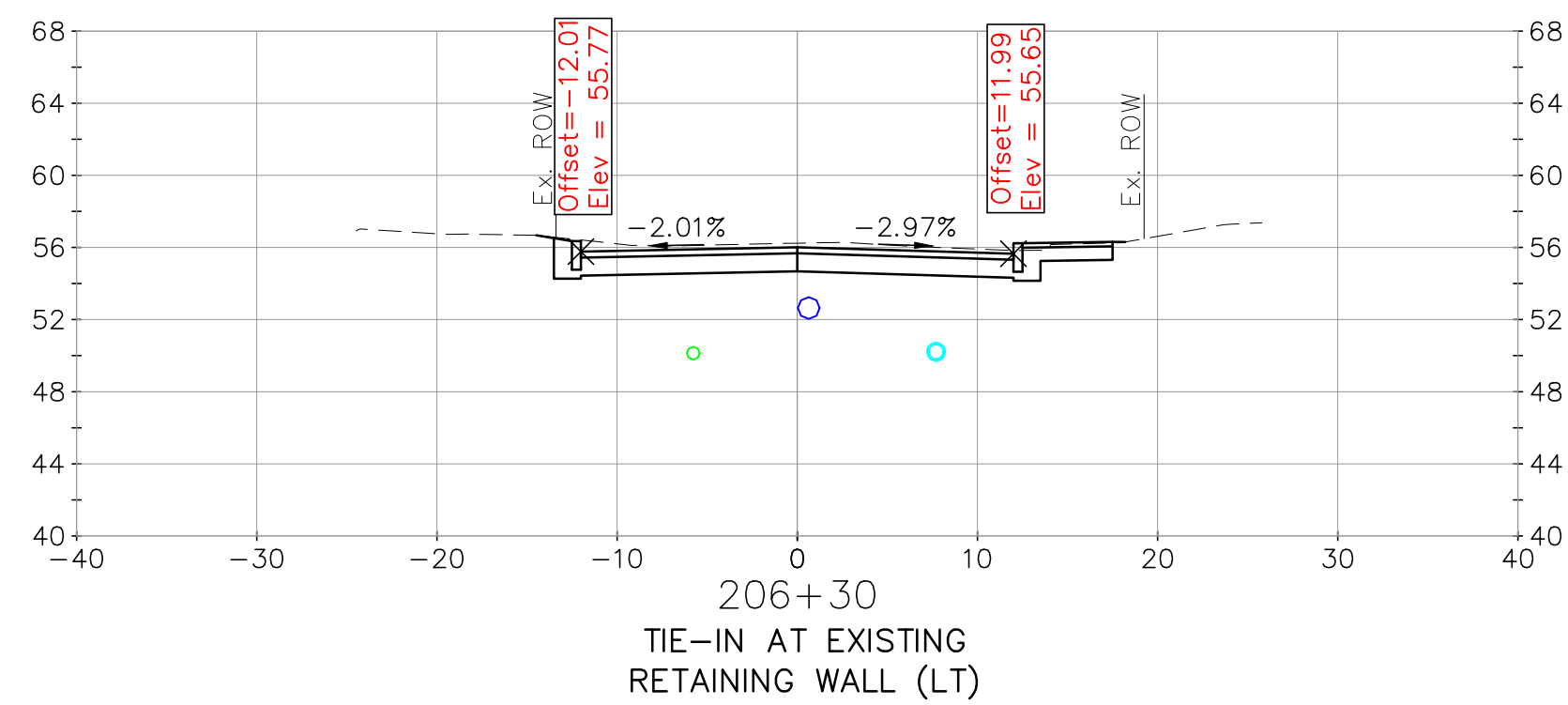
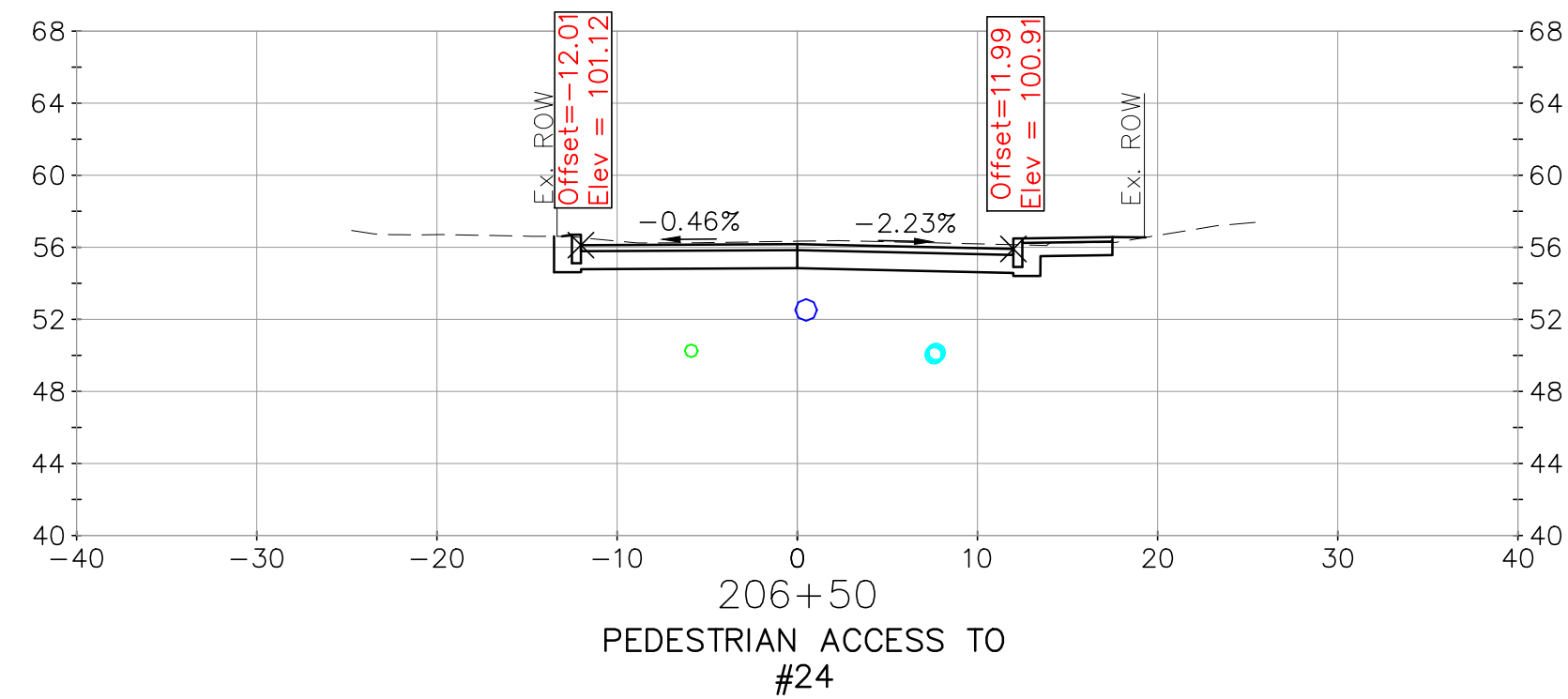
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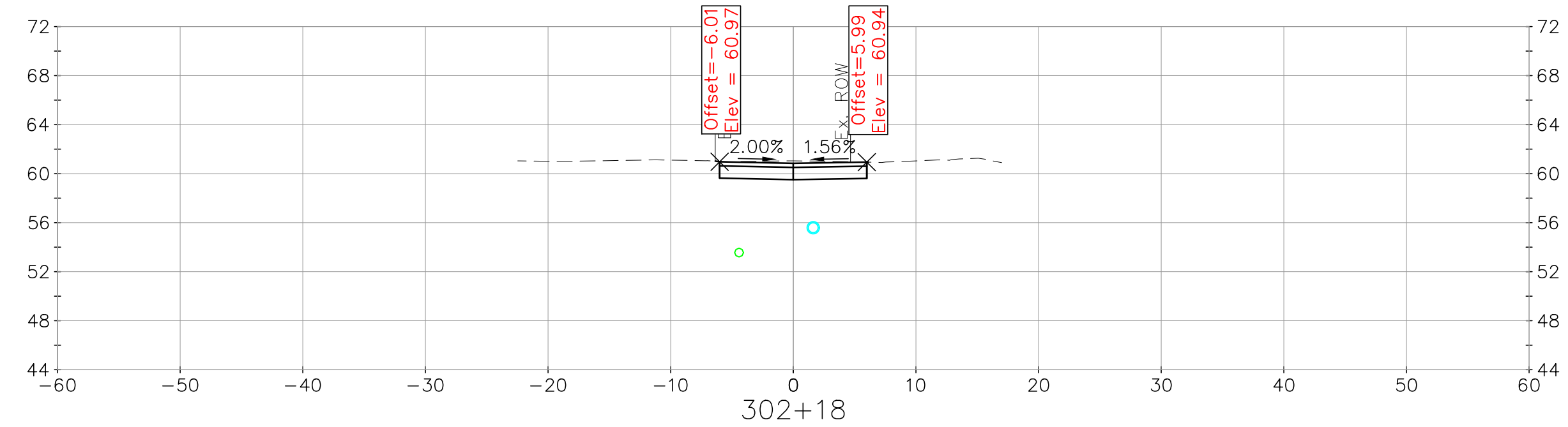
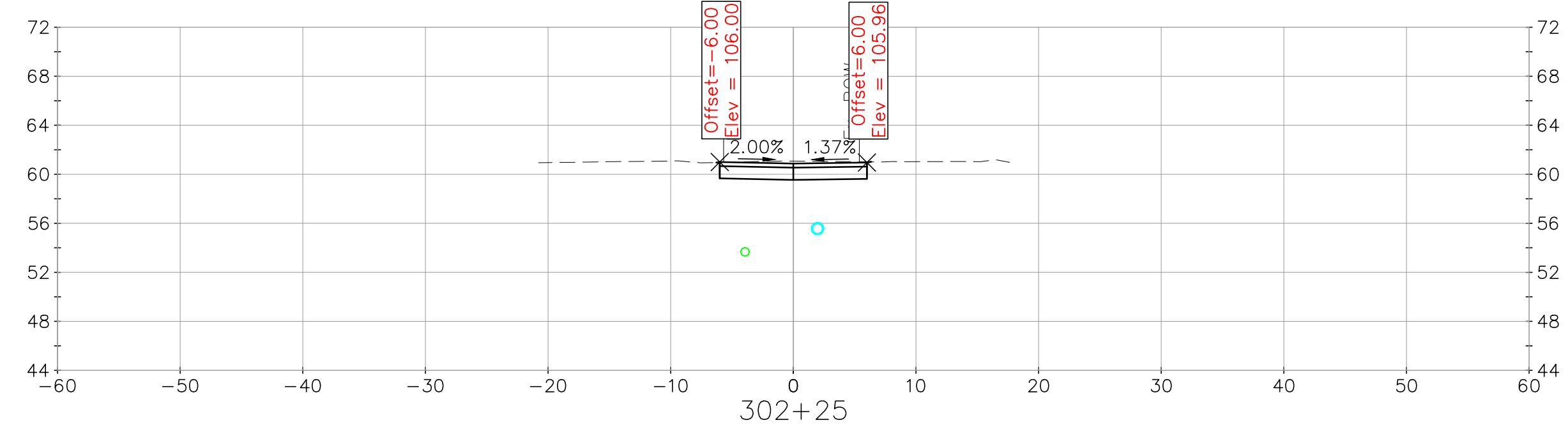
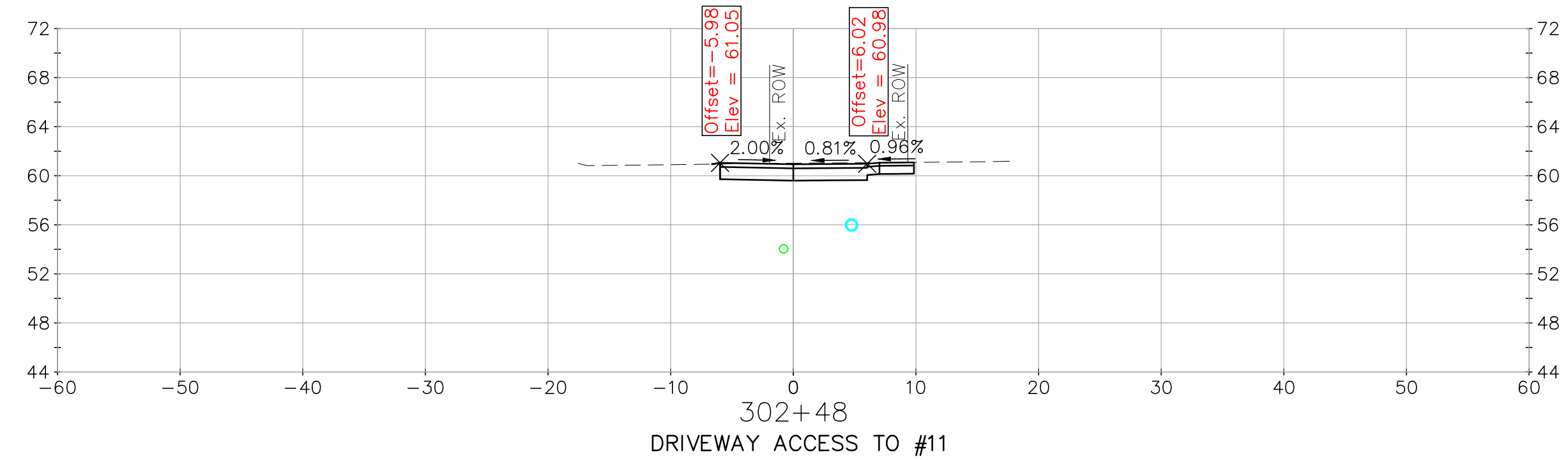
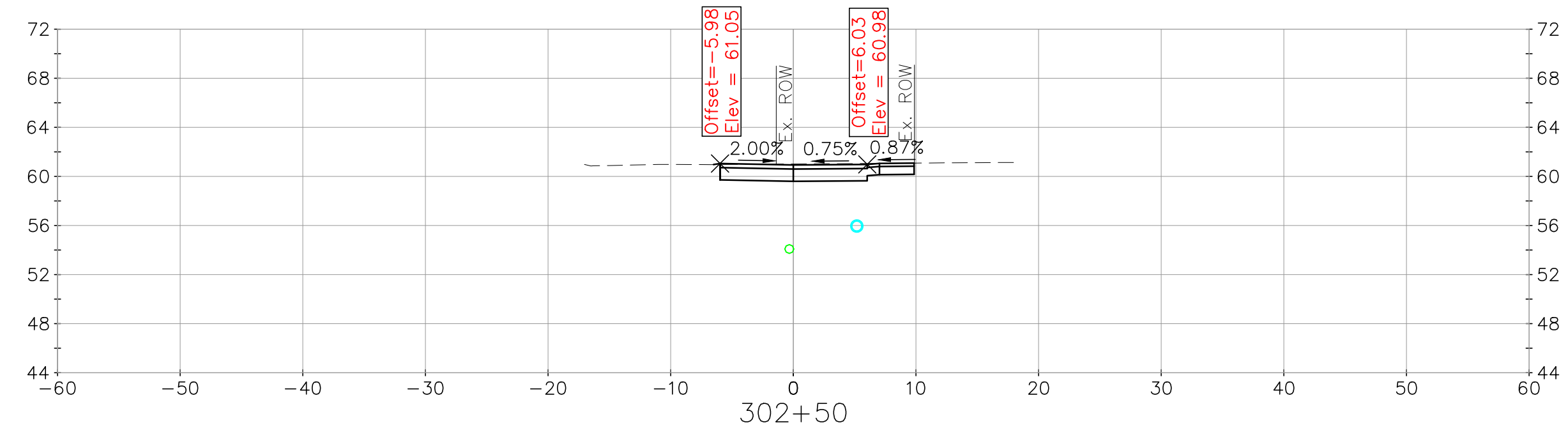
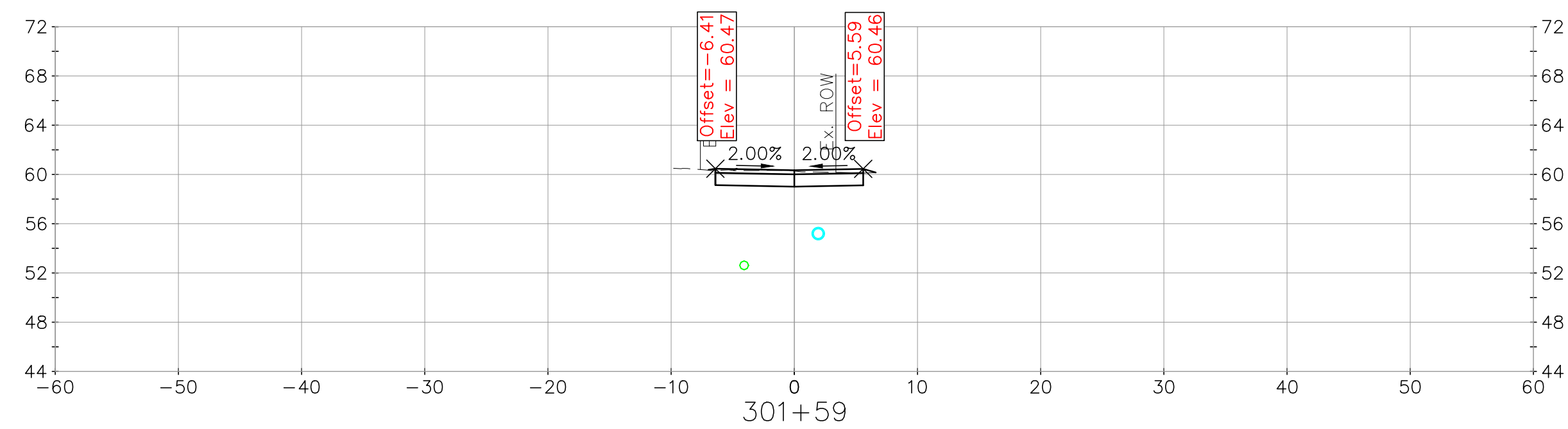
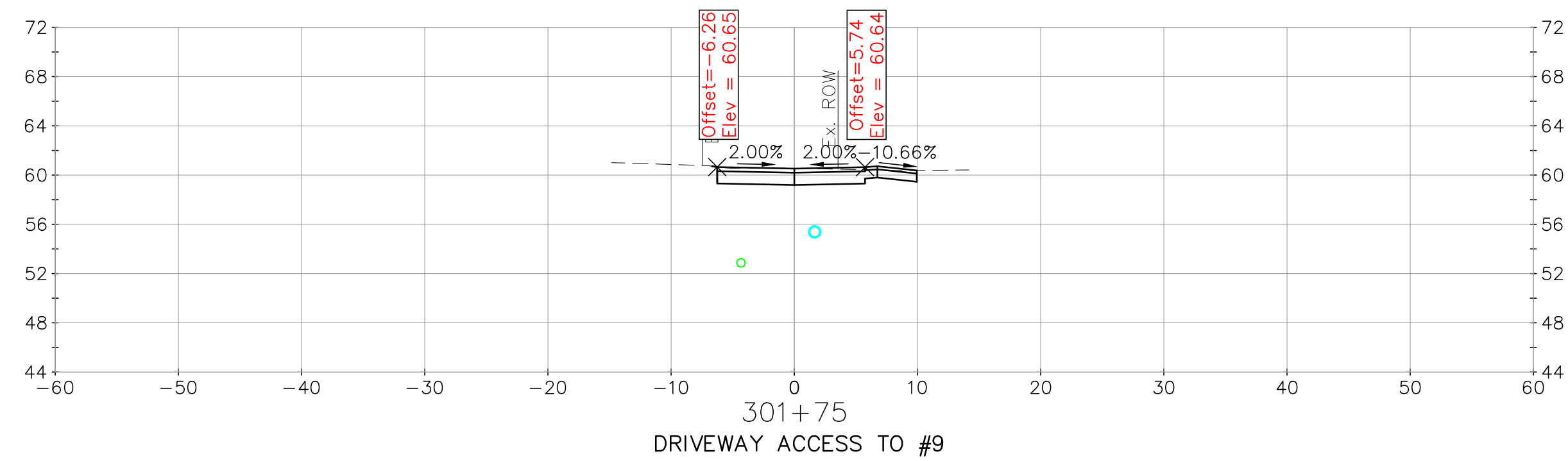
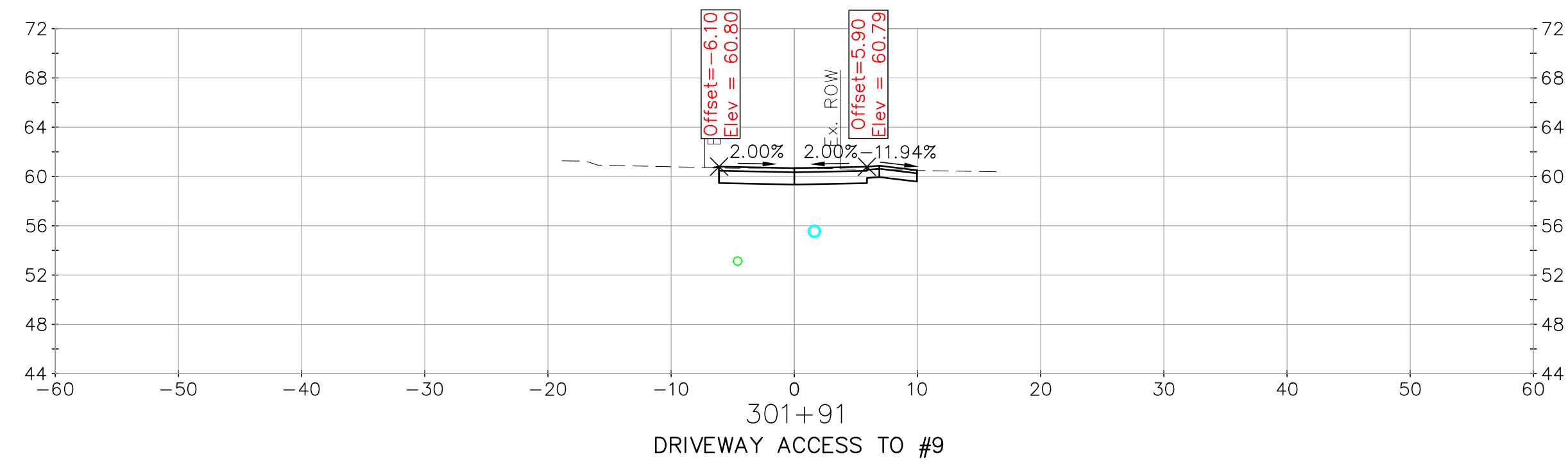
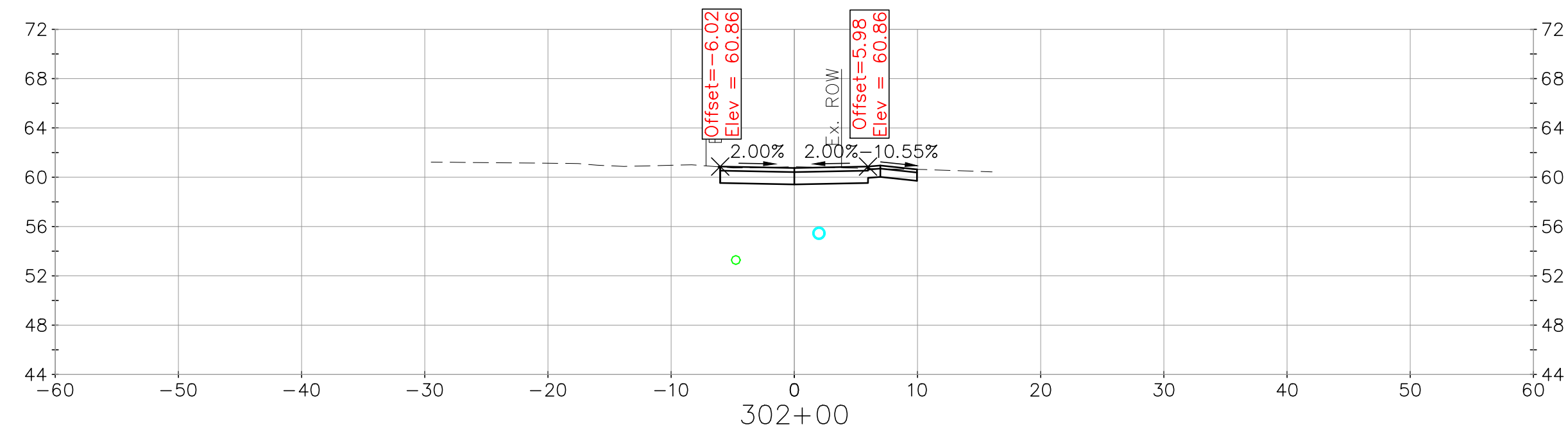


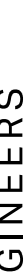


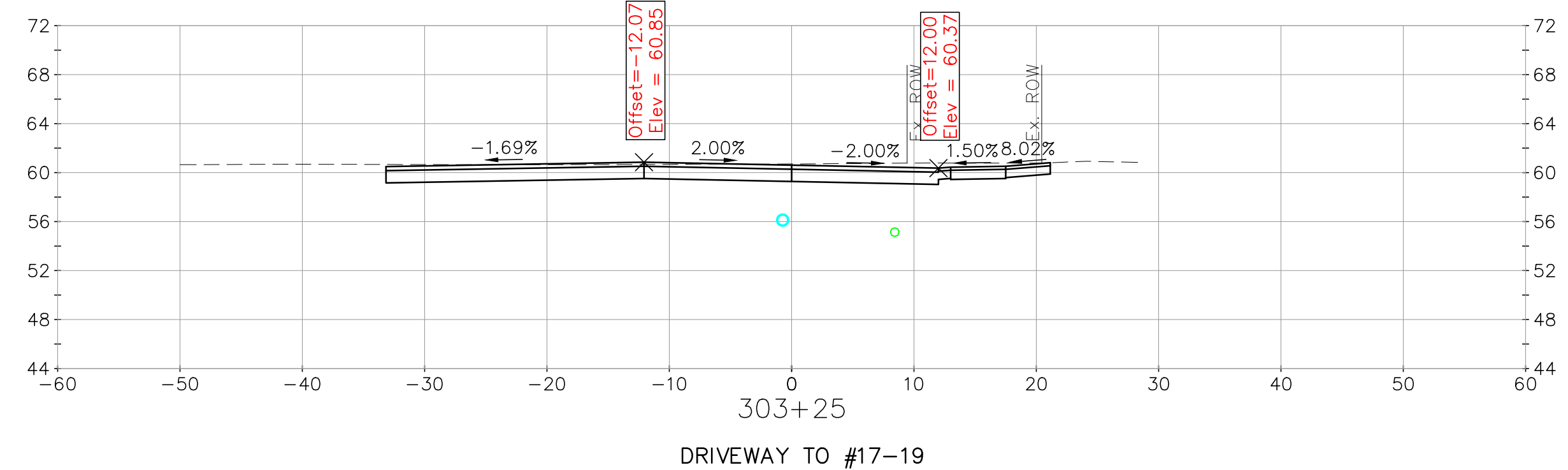
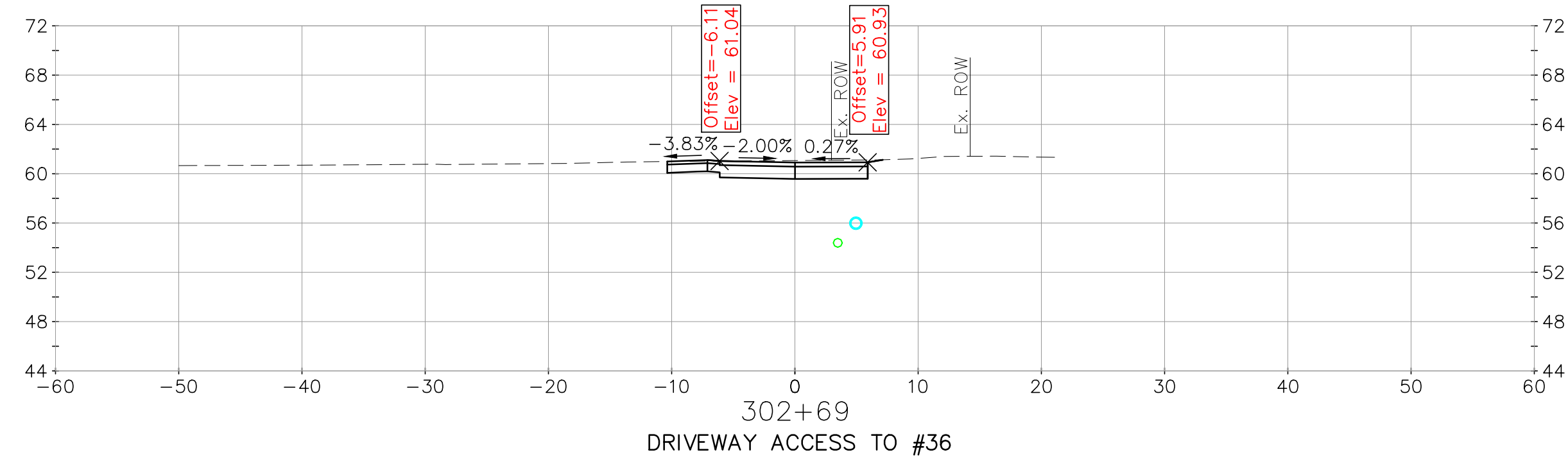
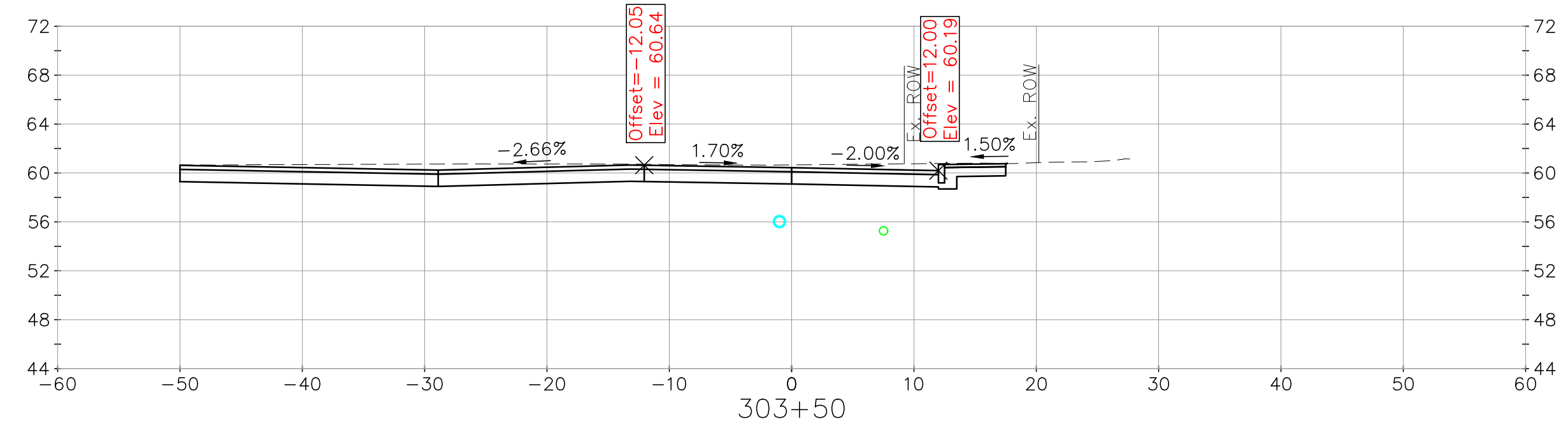
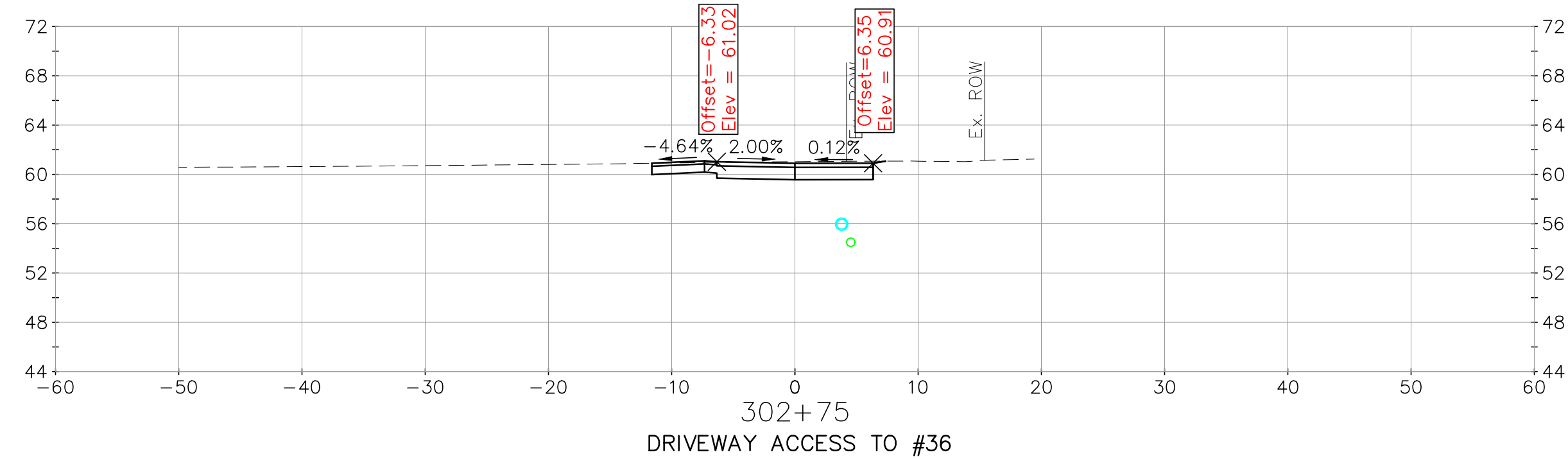
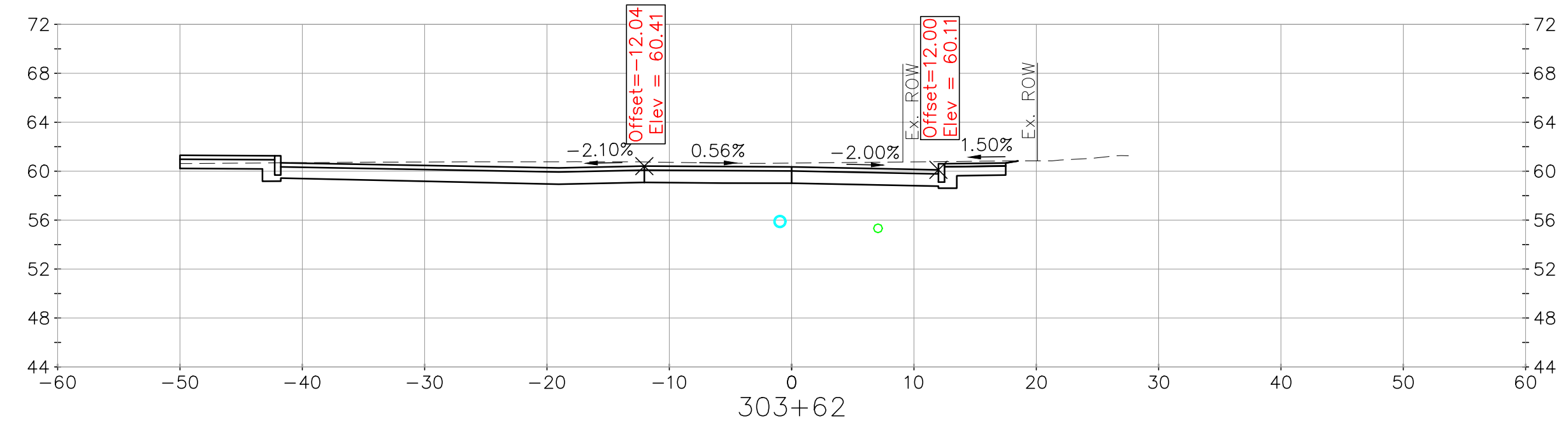
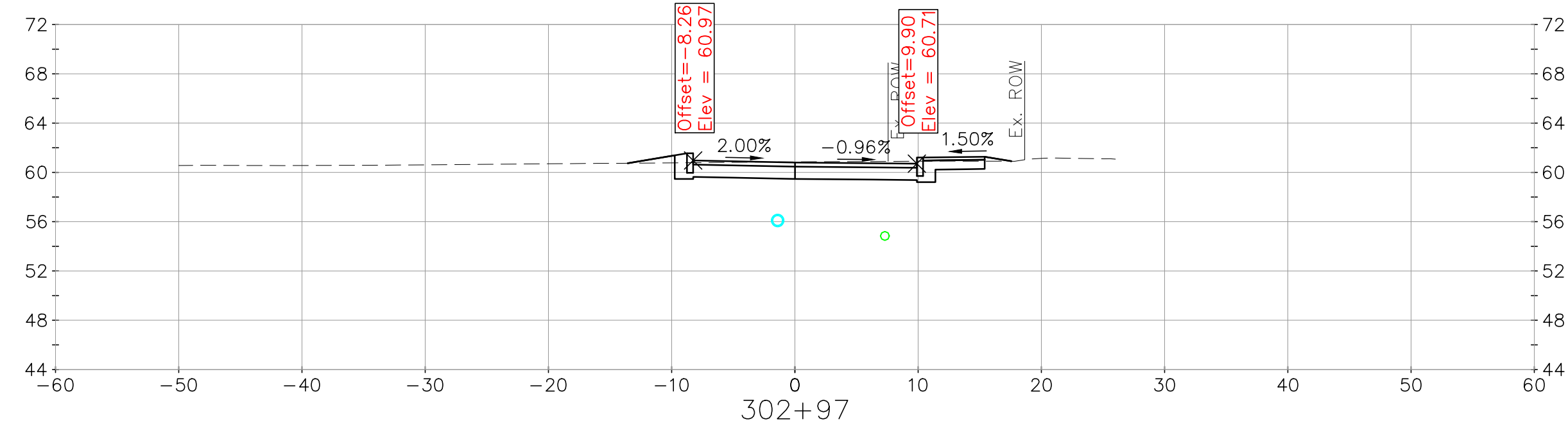
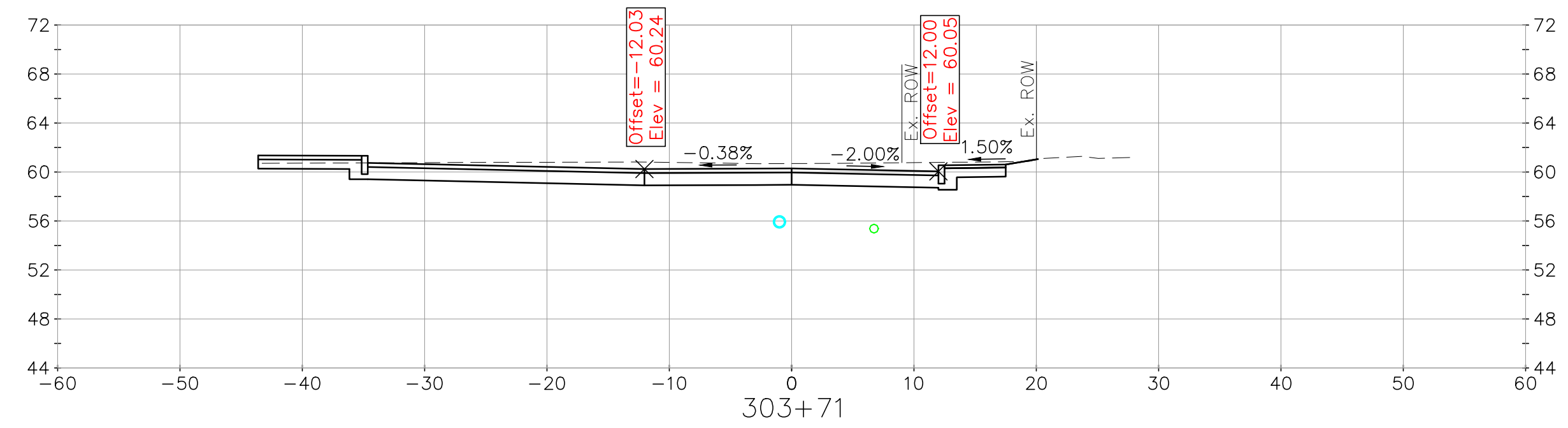
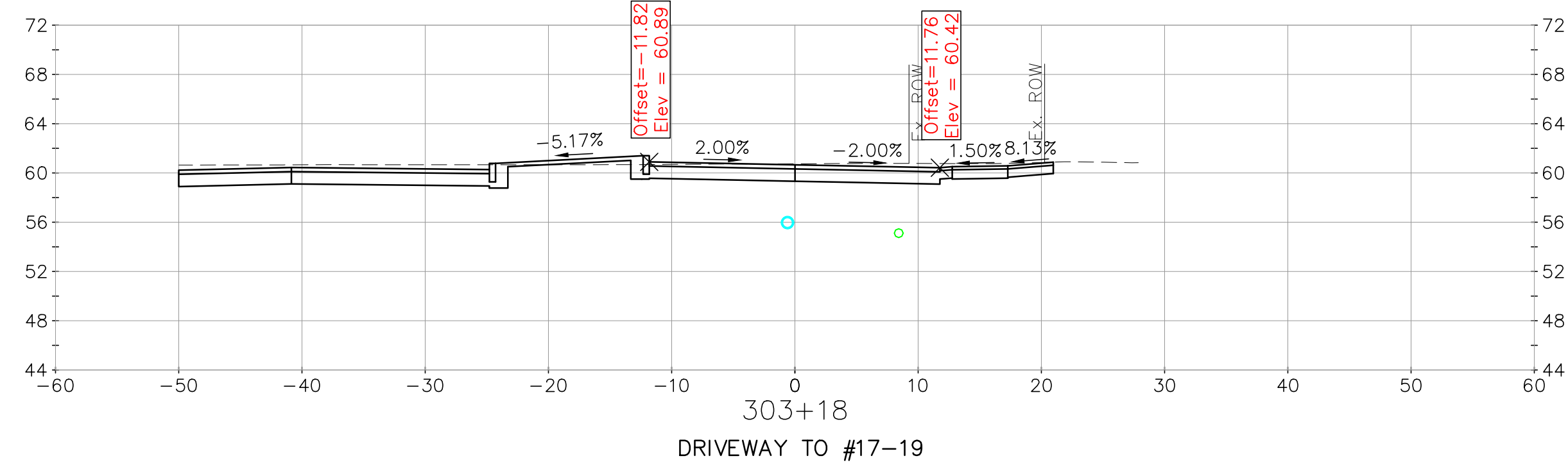
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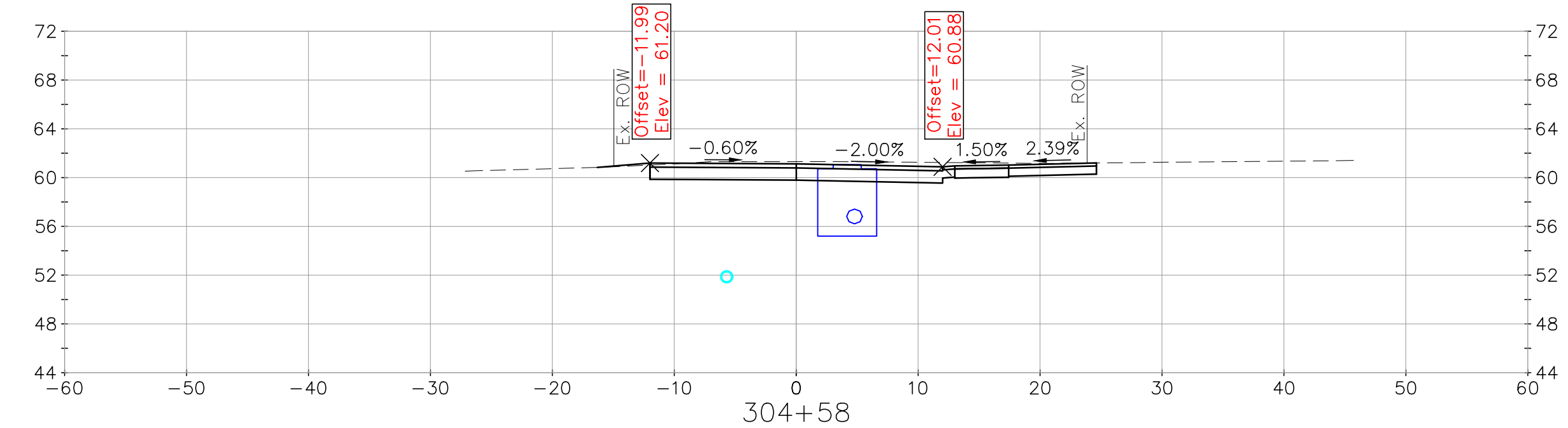
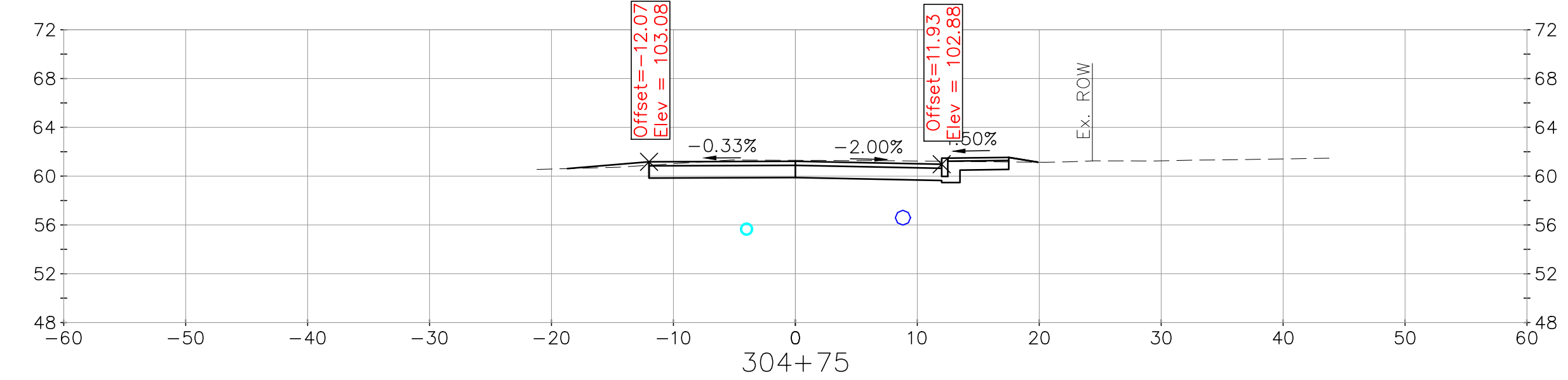
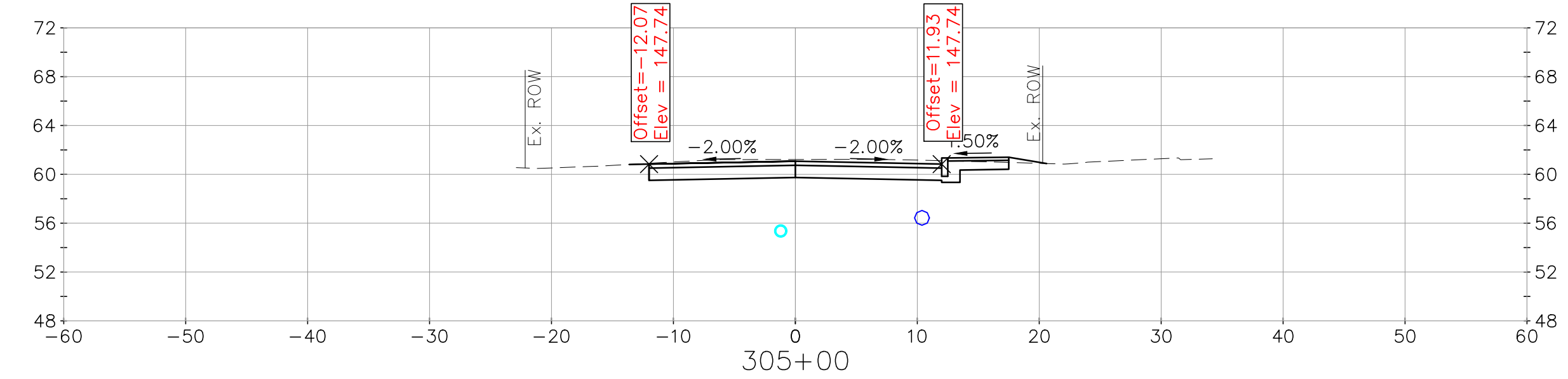
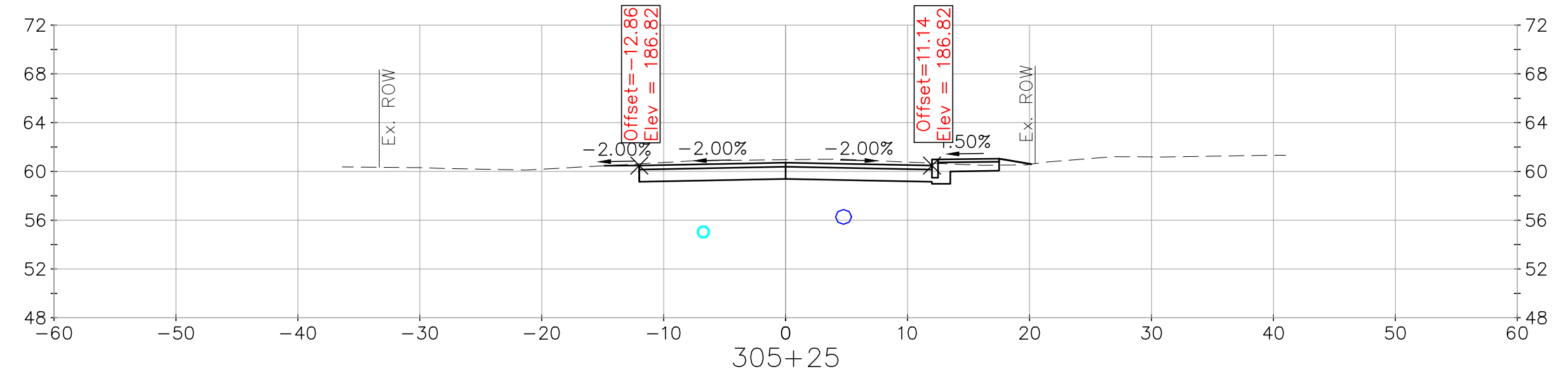
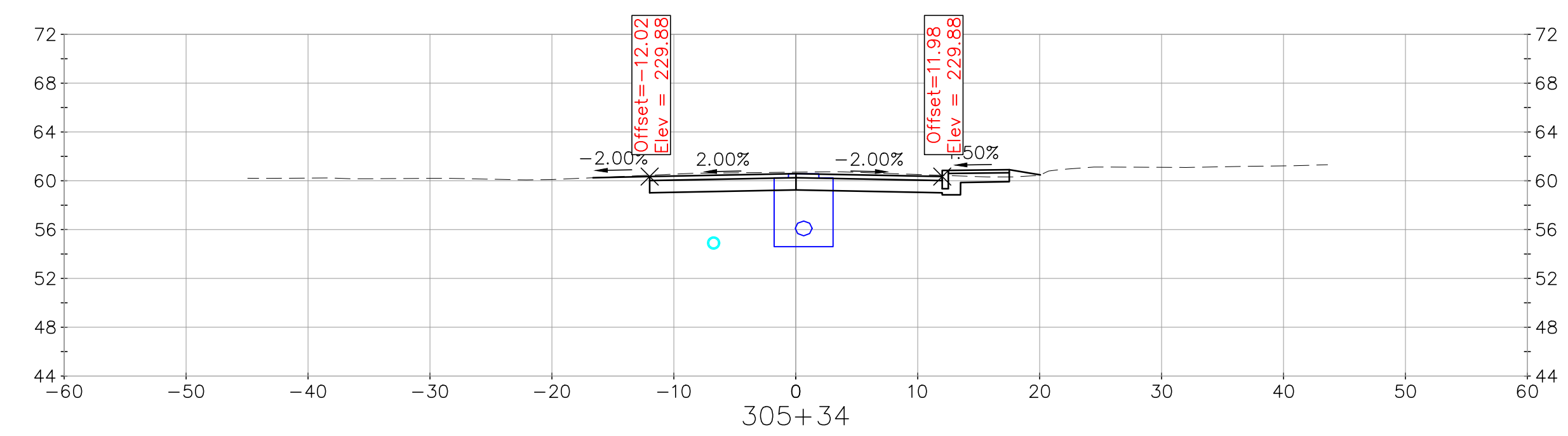
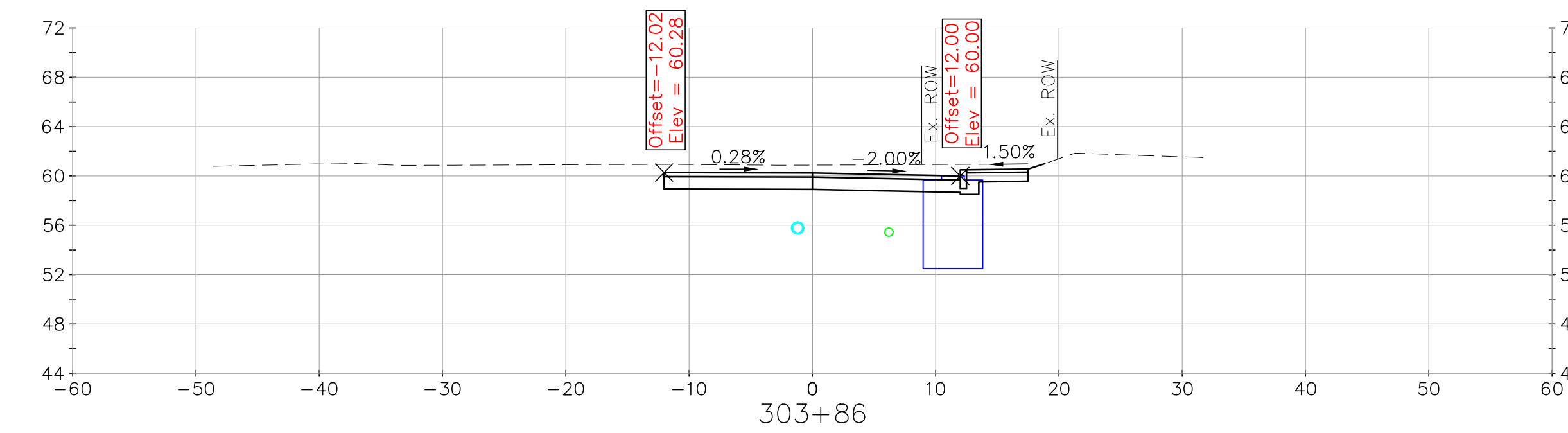
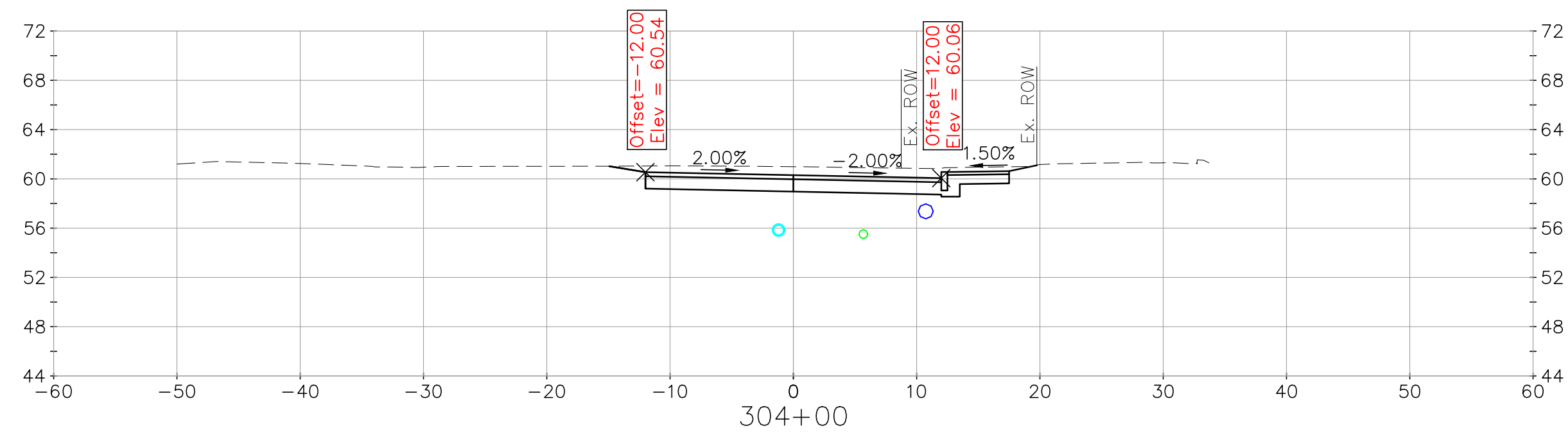
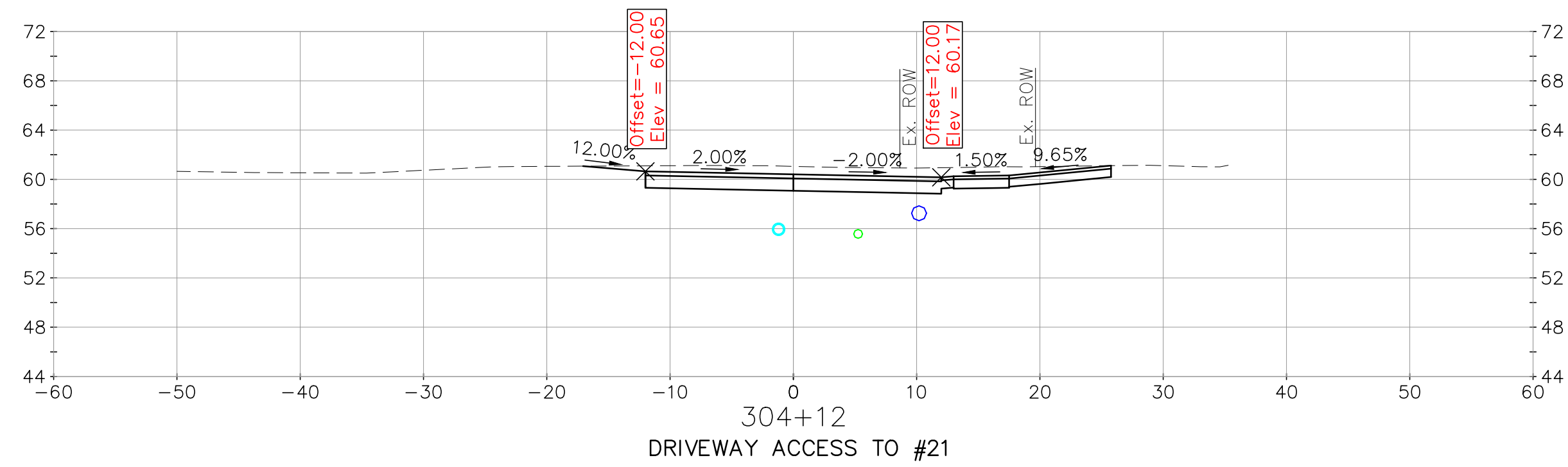
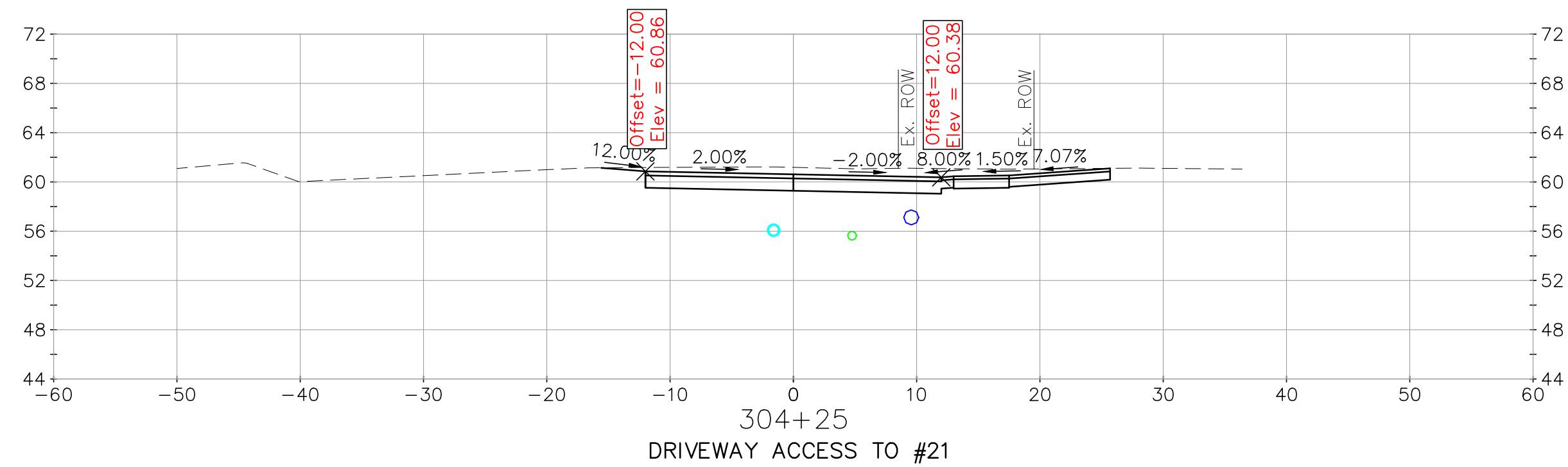
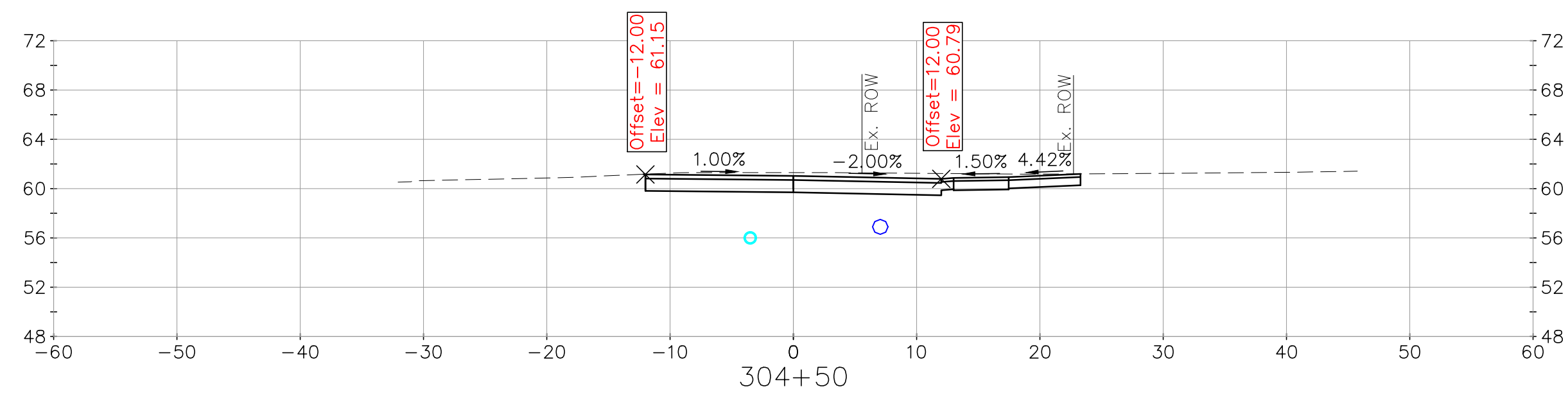




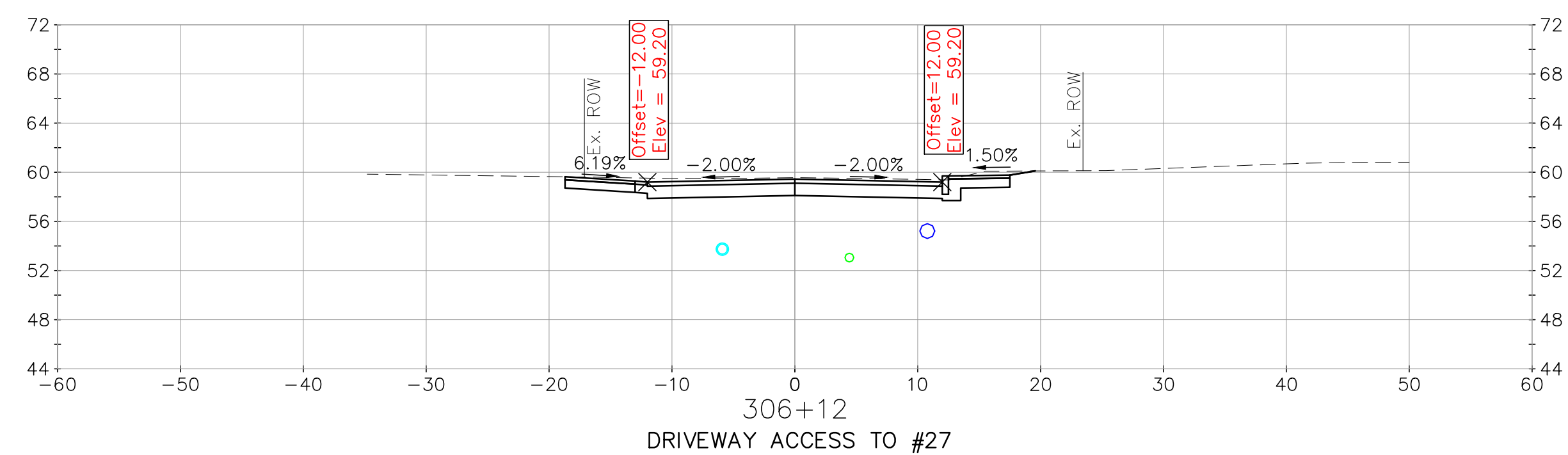
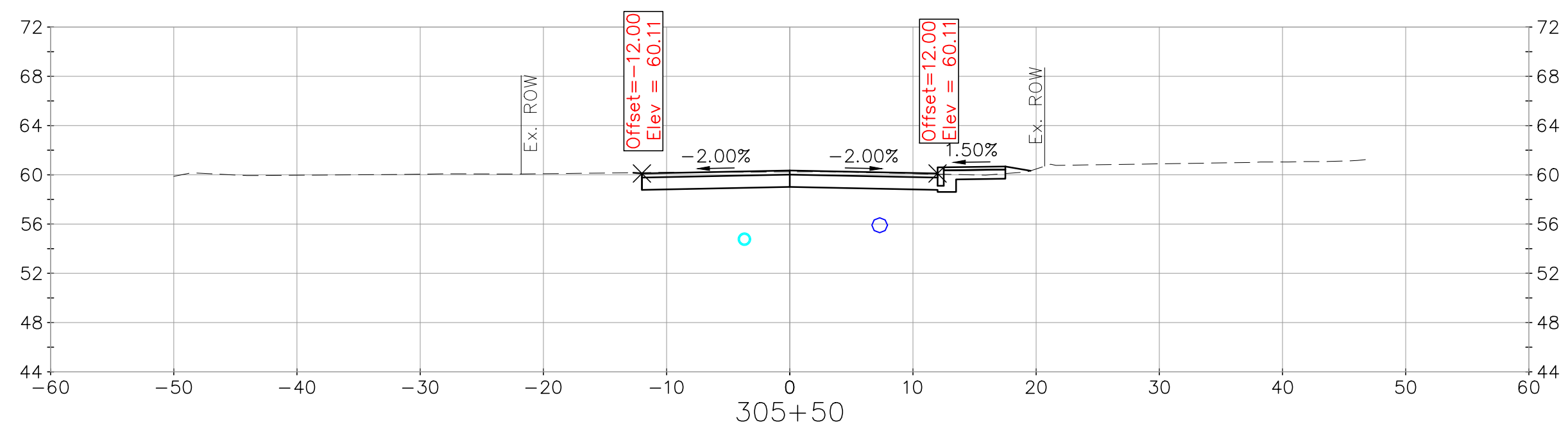
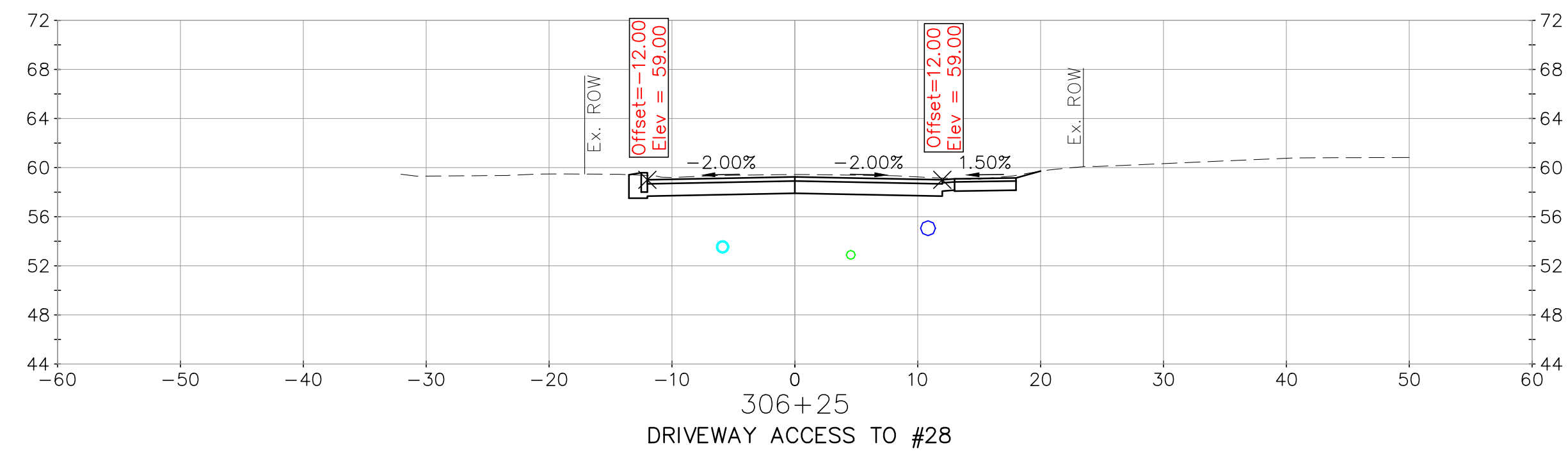
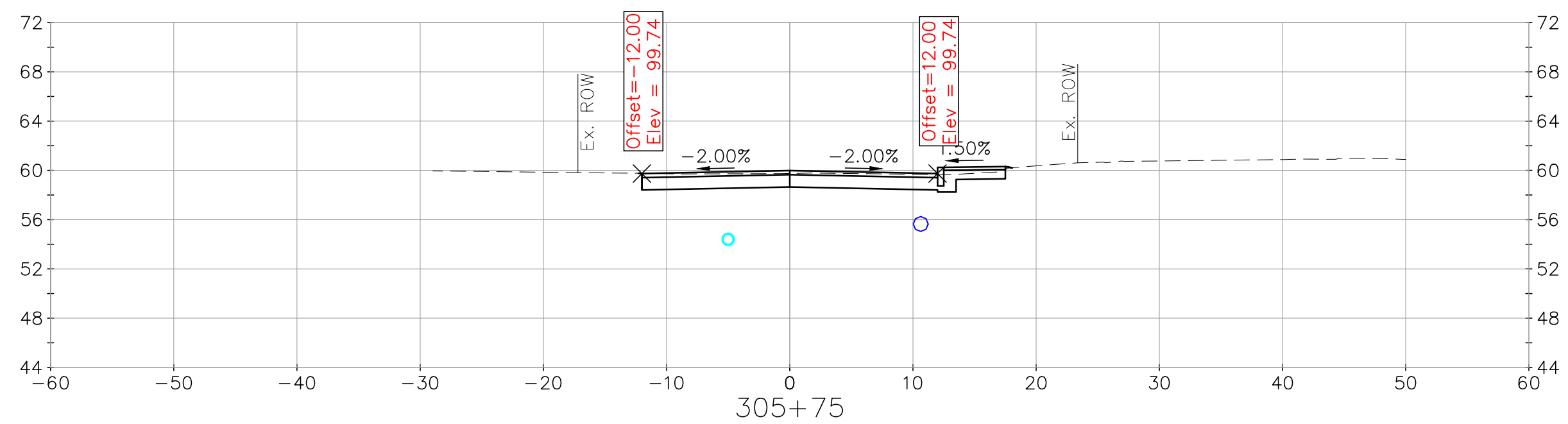
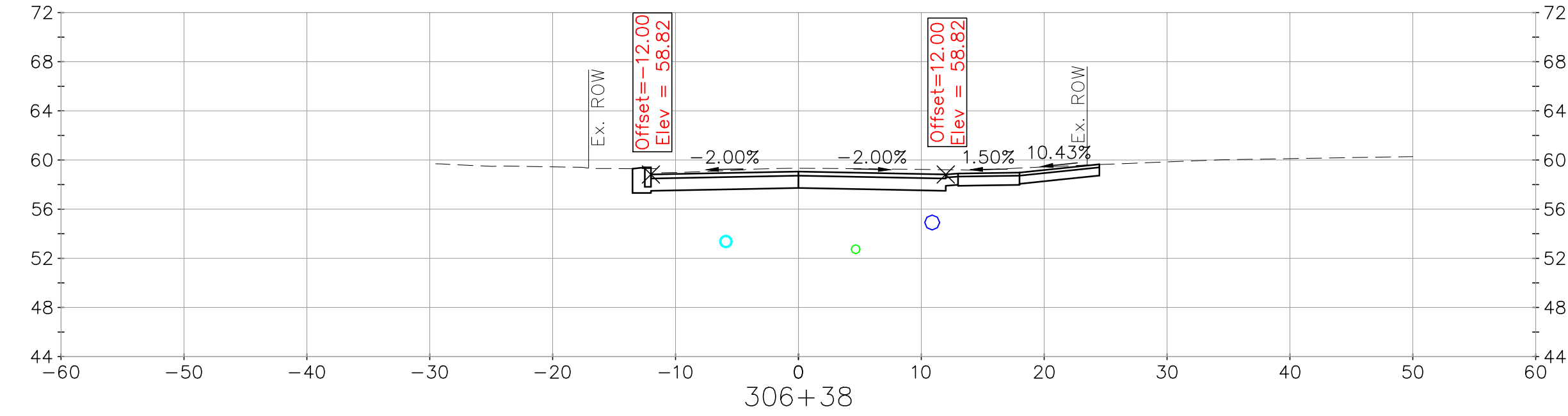
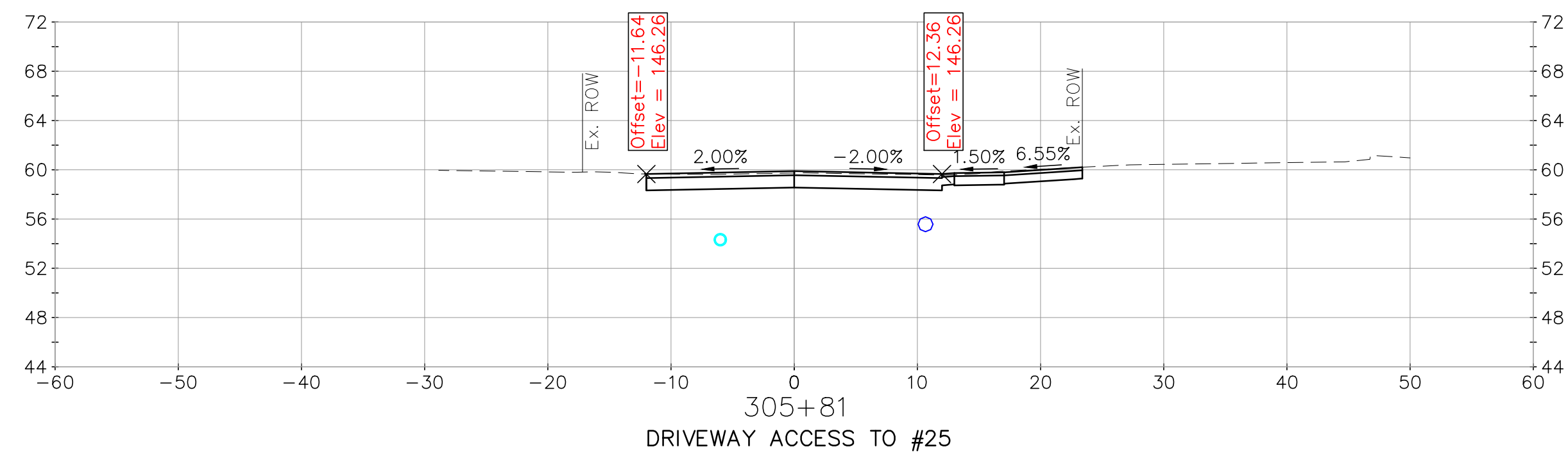
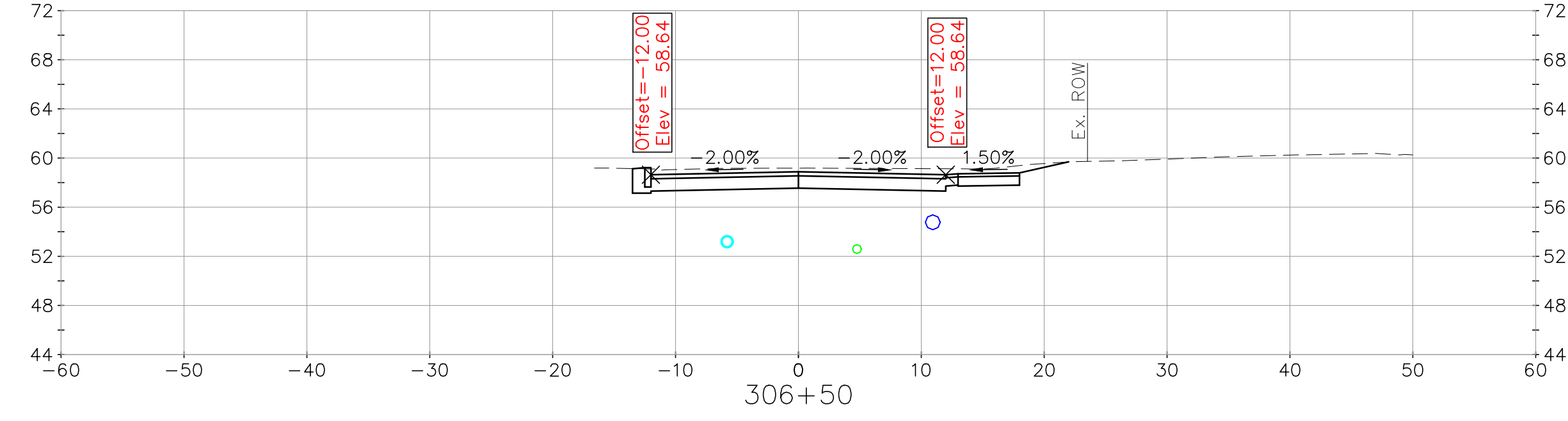
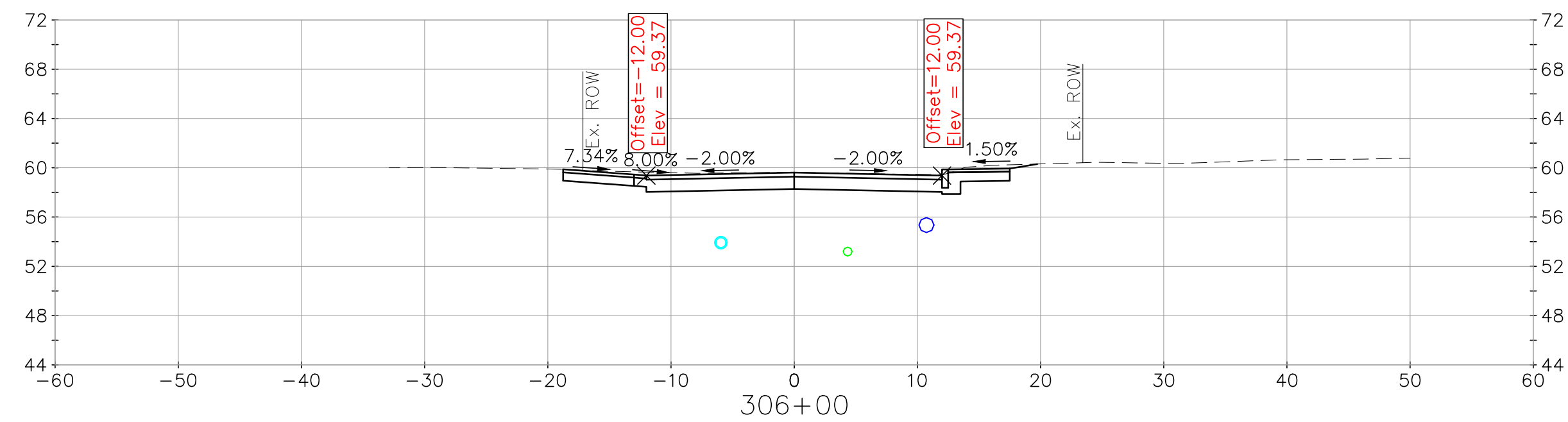


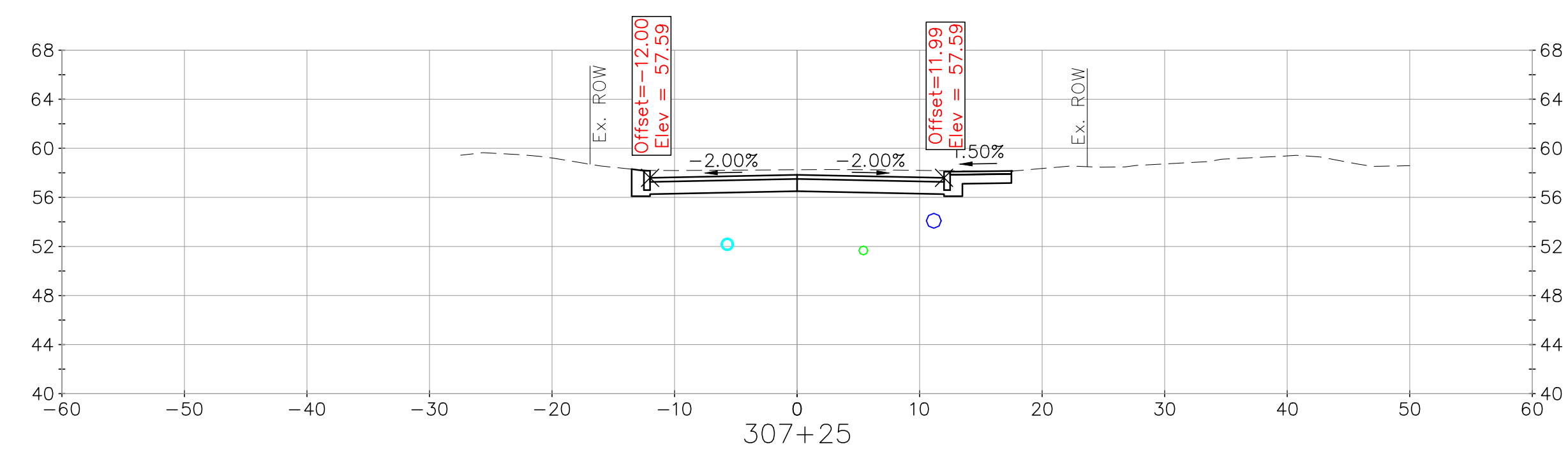
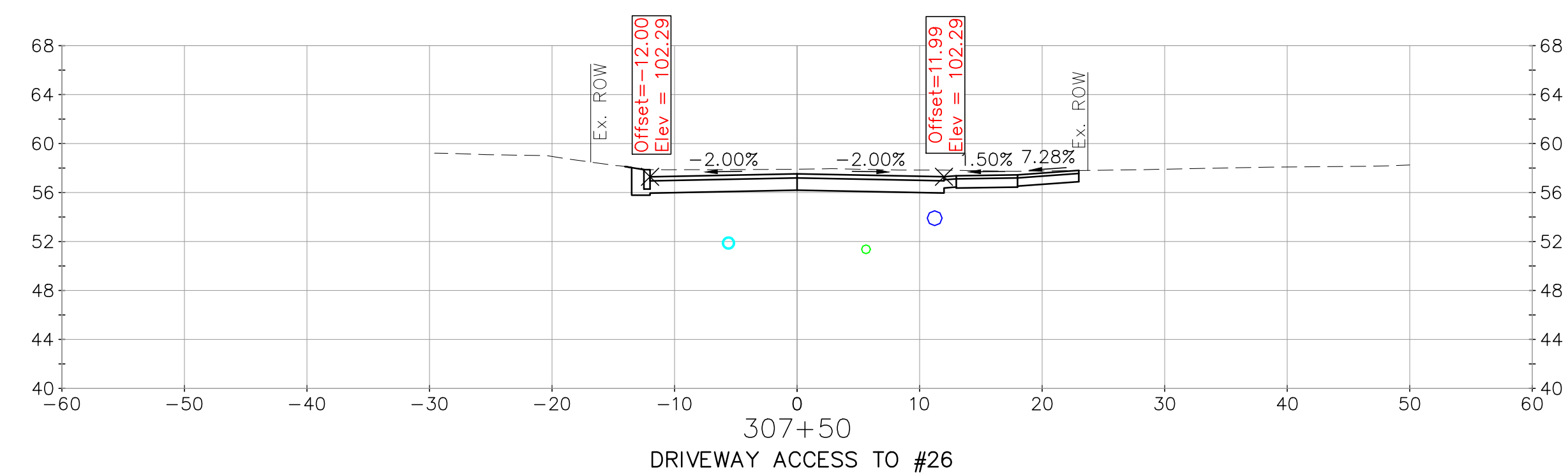
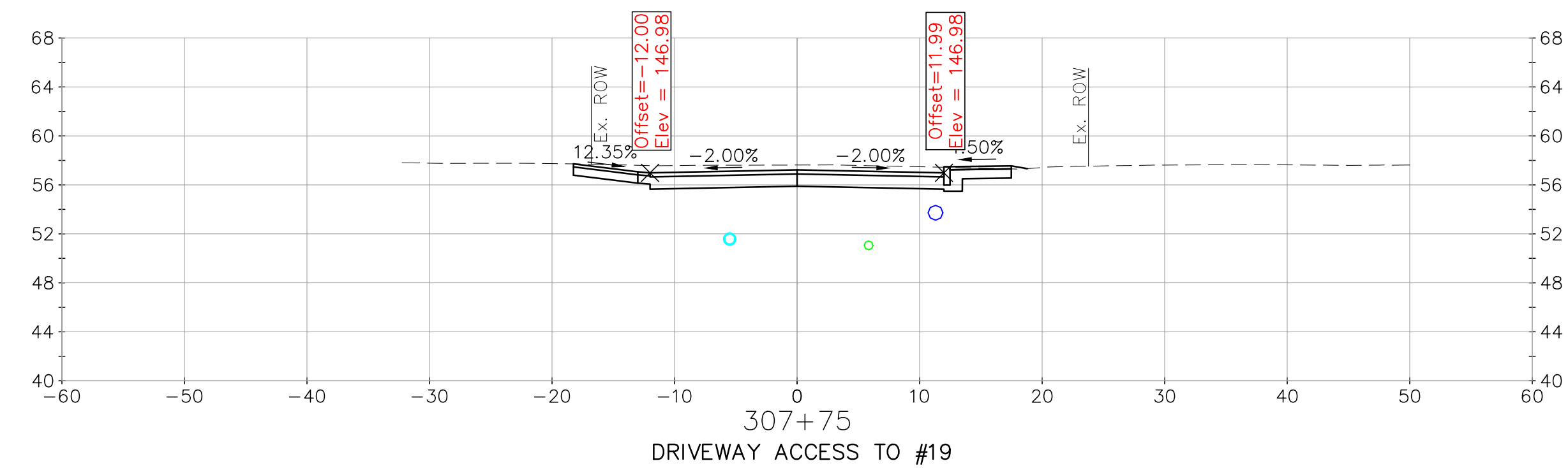
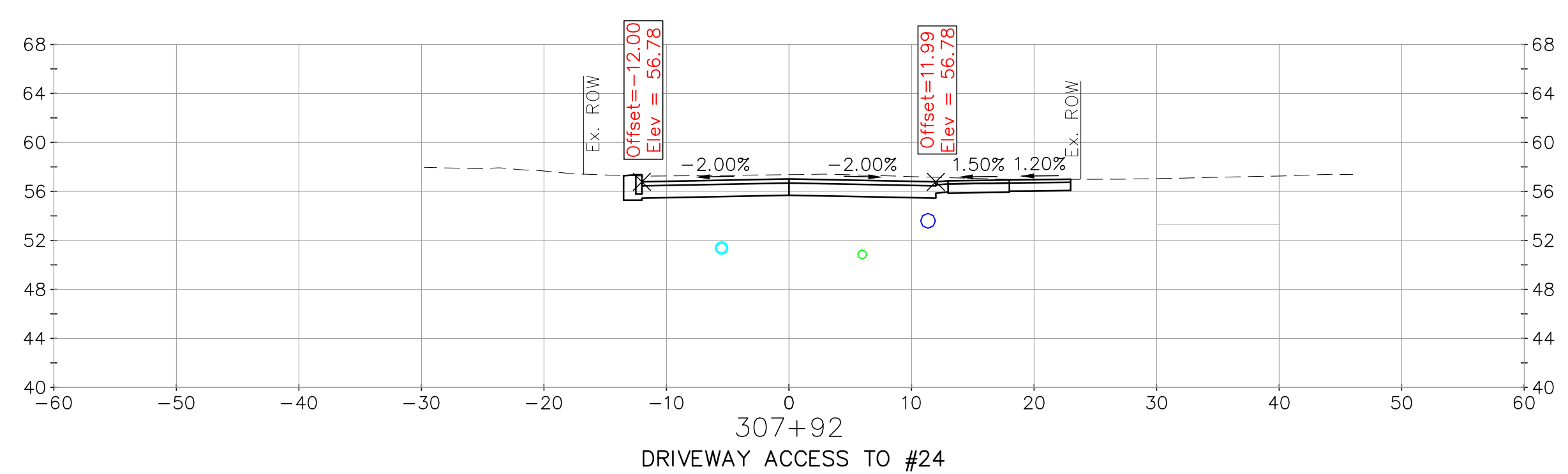
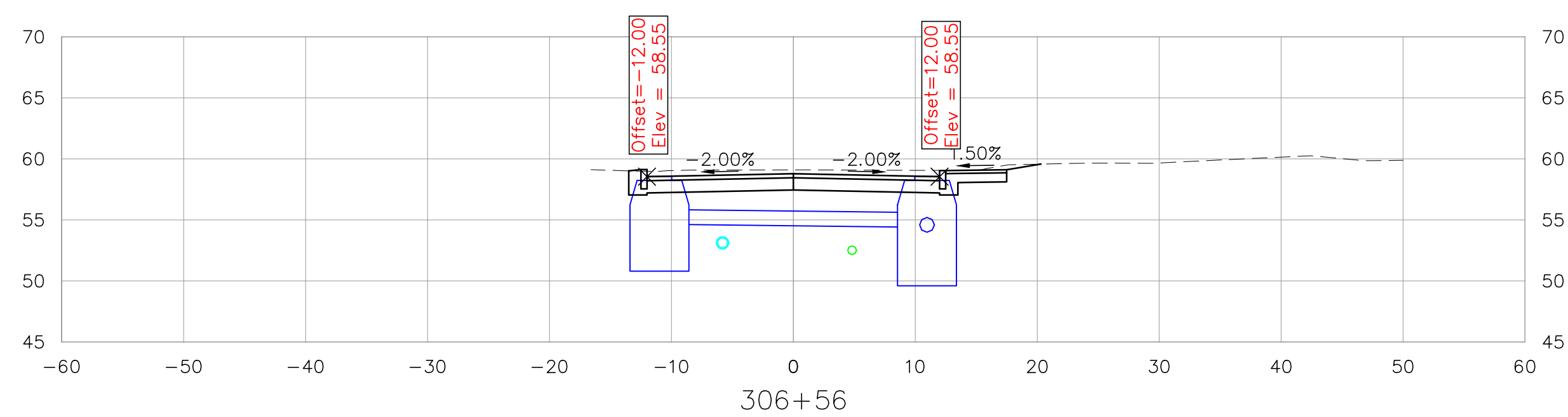
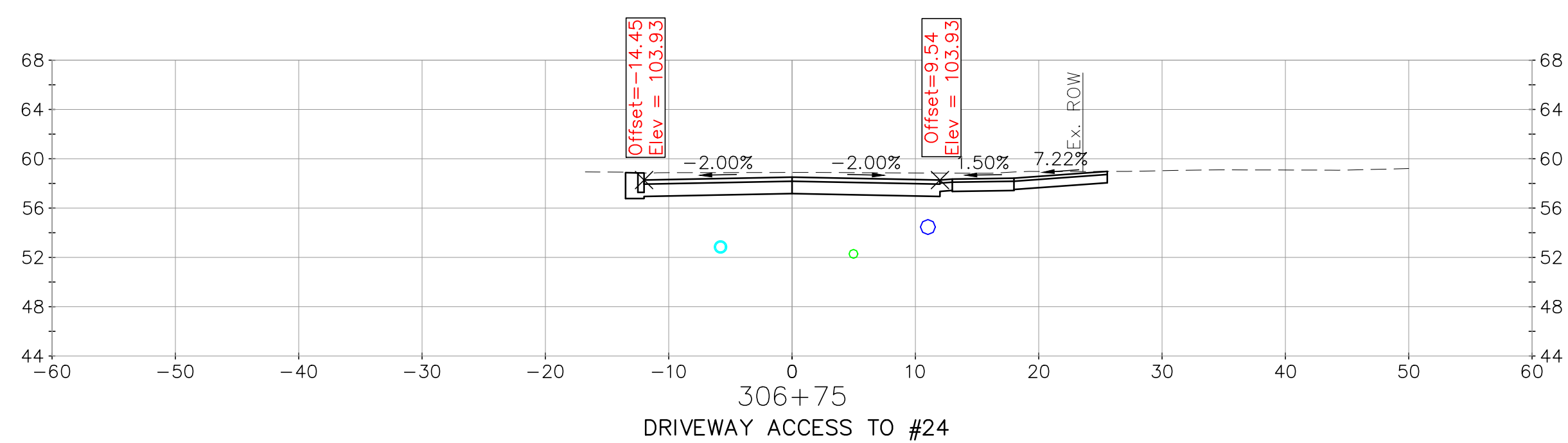
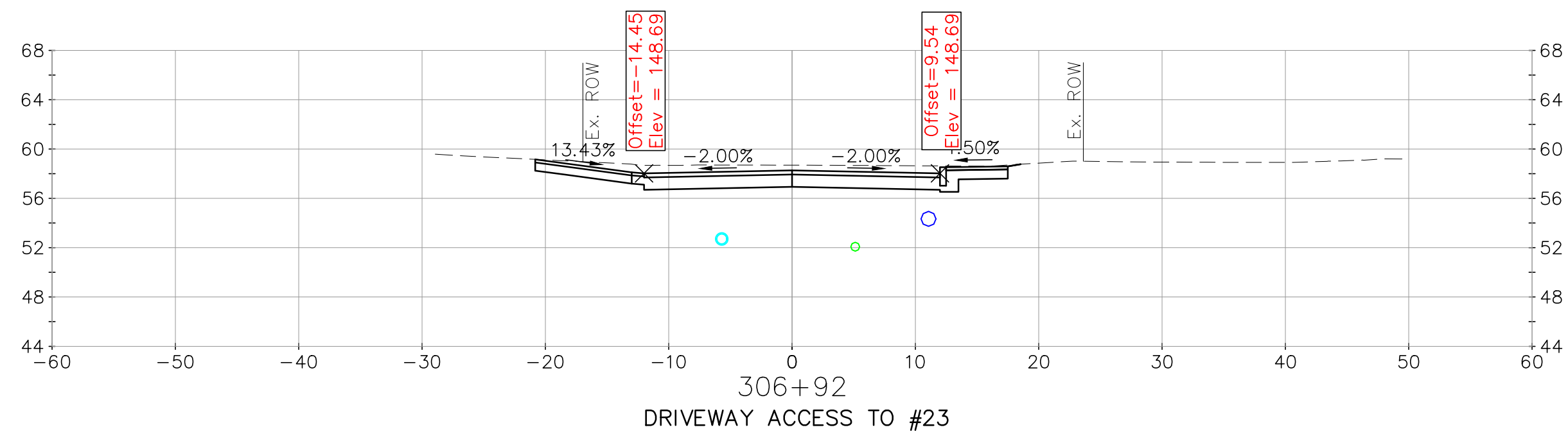
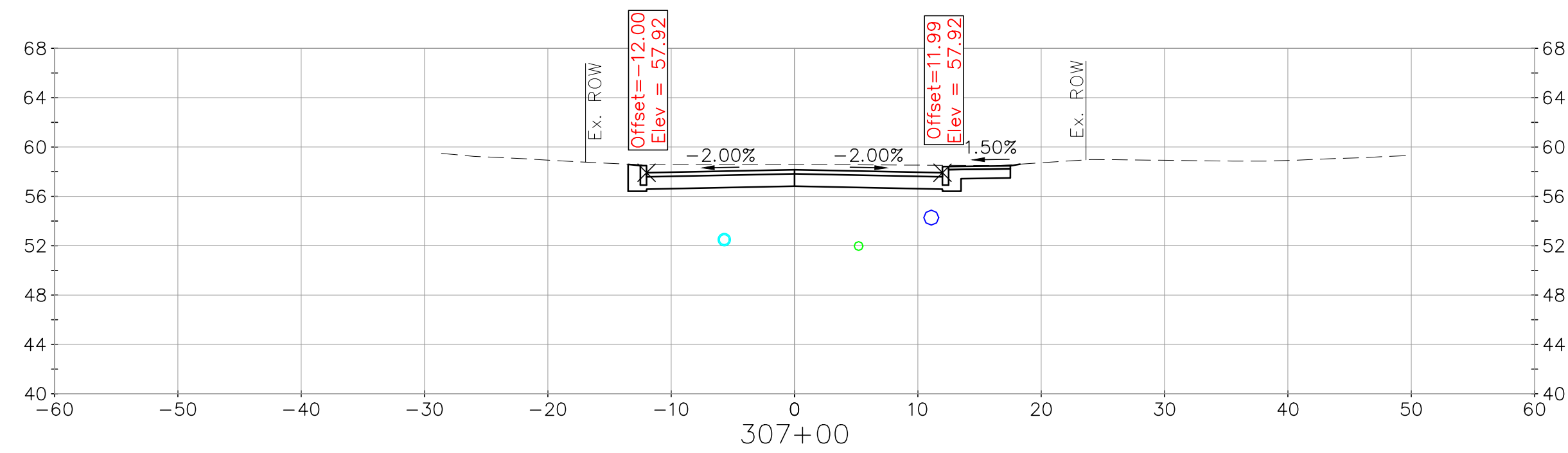
Town of Exeter, New Hampshire Department of Public Works		date: July 2026	designed by: CFC/WAB	 7/2/2026	 CIVIL/ENVIRONMENTAL/STRUCTURAL	Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 c m a e n g i n e e r s . c o m	1	Issued for Construction	7/2/26	PAC						
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			scale:													
			drawing no. XS-10													
sheet:		41	of	49												





Town of Exeter, New Hampshire Department of Public Works	date: July 2026 project no: 1350	designed by: CFC/WAB	drawn by: FDG/CLM	checked by: PAC	approved by: PAC	scale: 	 7/2/2026	 CIVIL/ENVIRONMENTAL/STRUCTURAL	Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 c m a e n g i n e e r s . c o m	1	Issued for Construction	7/2/26	PAC
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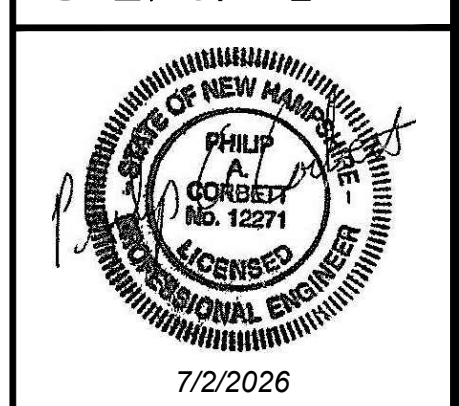
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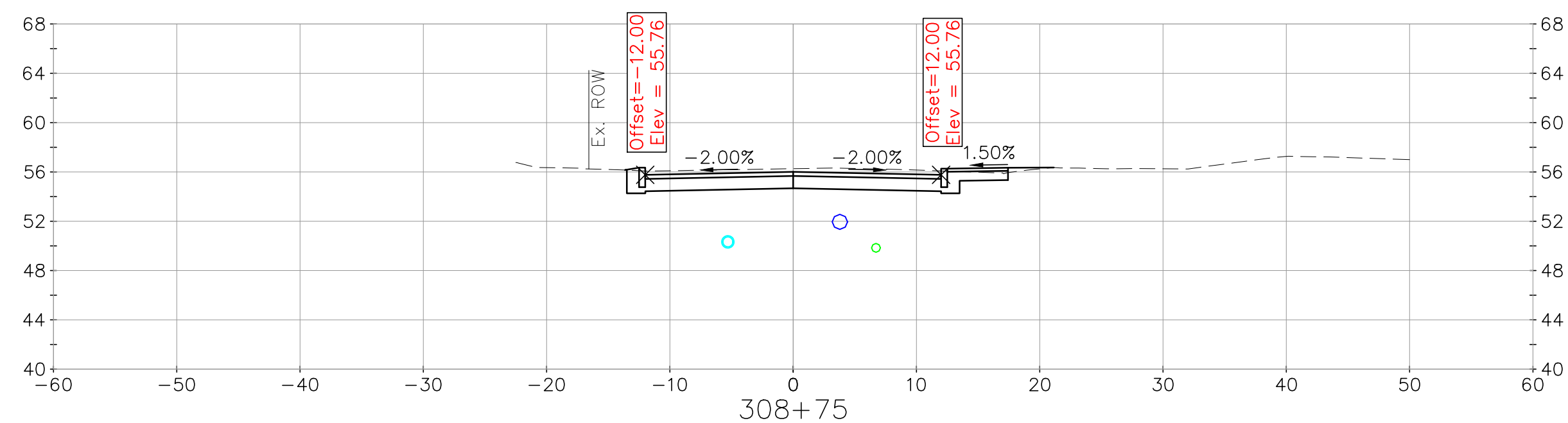
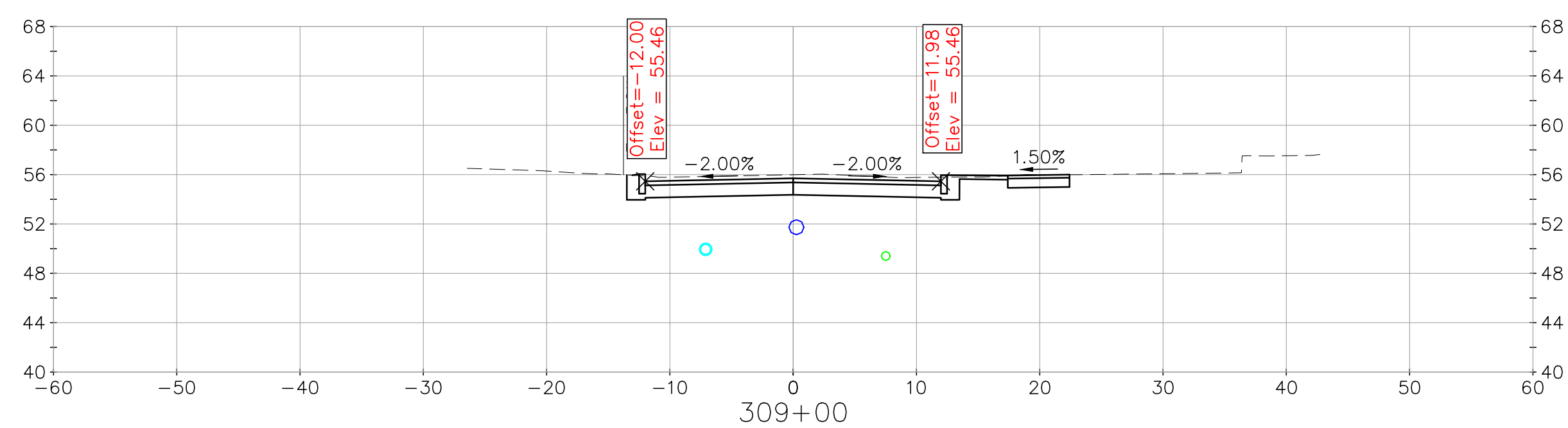
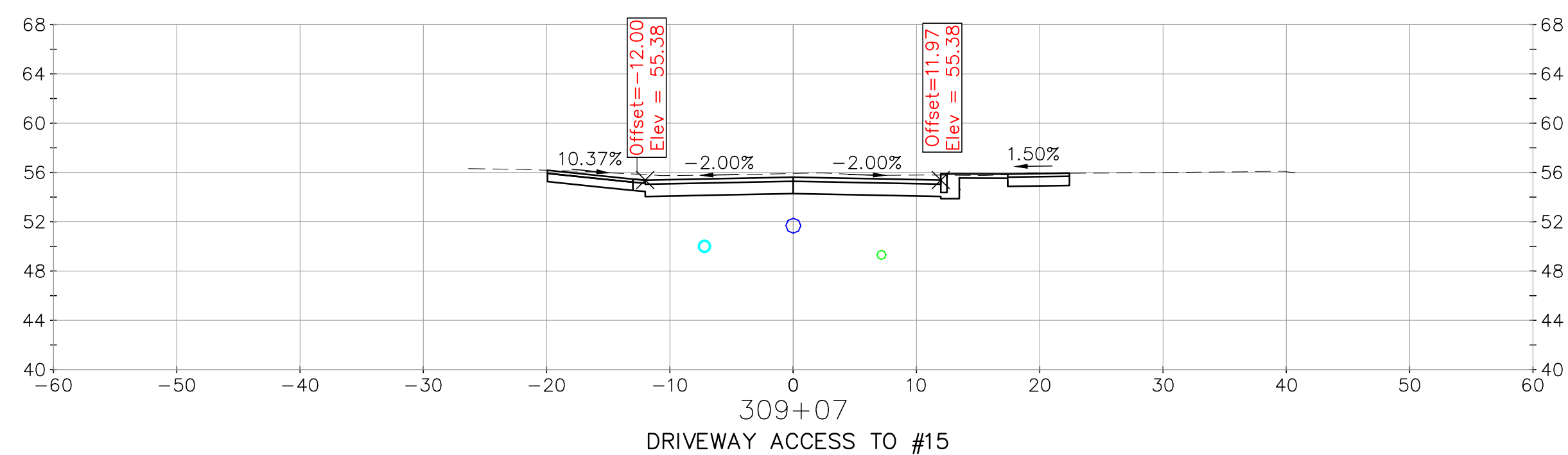
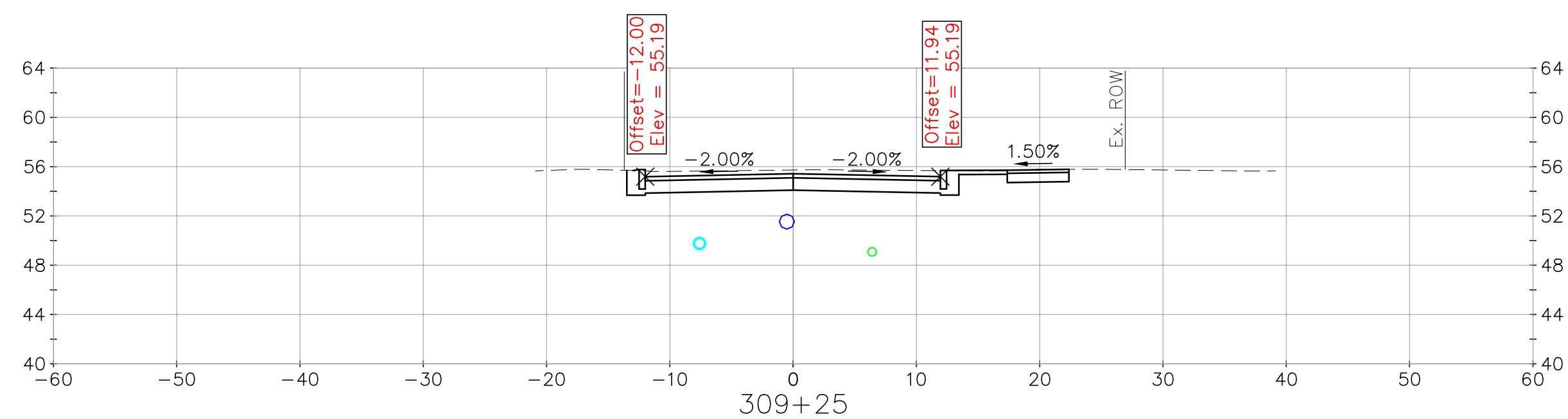
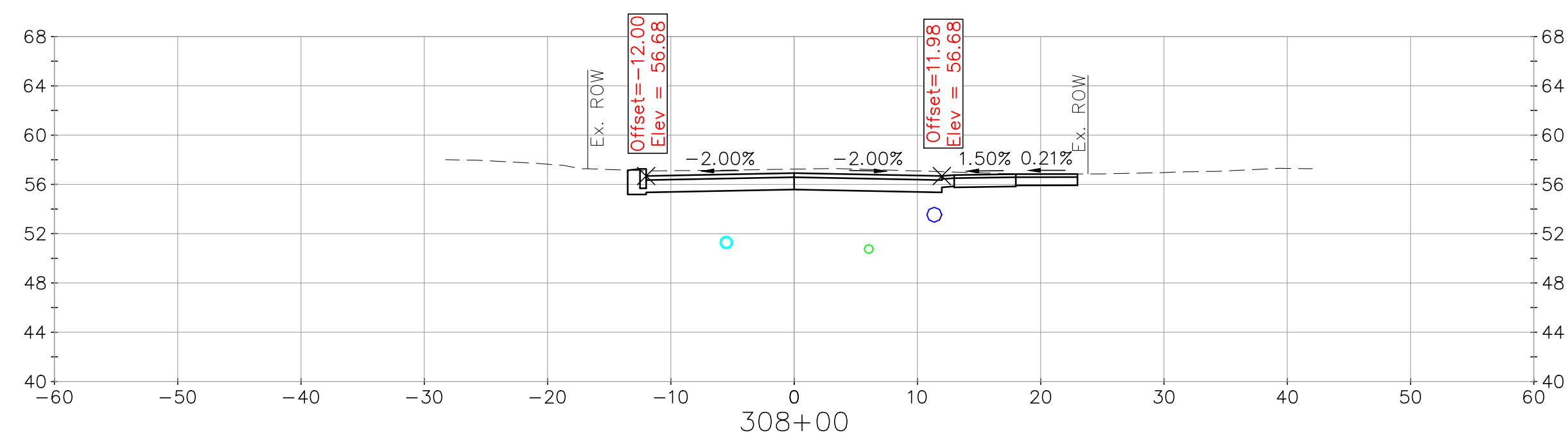
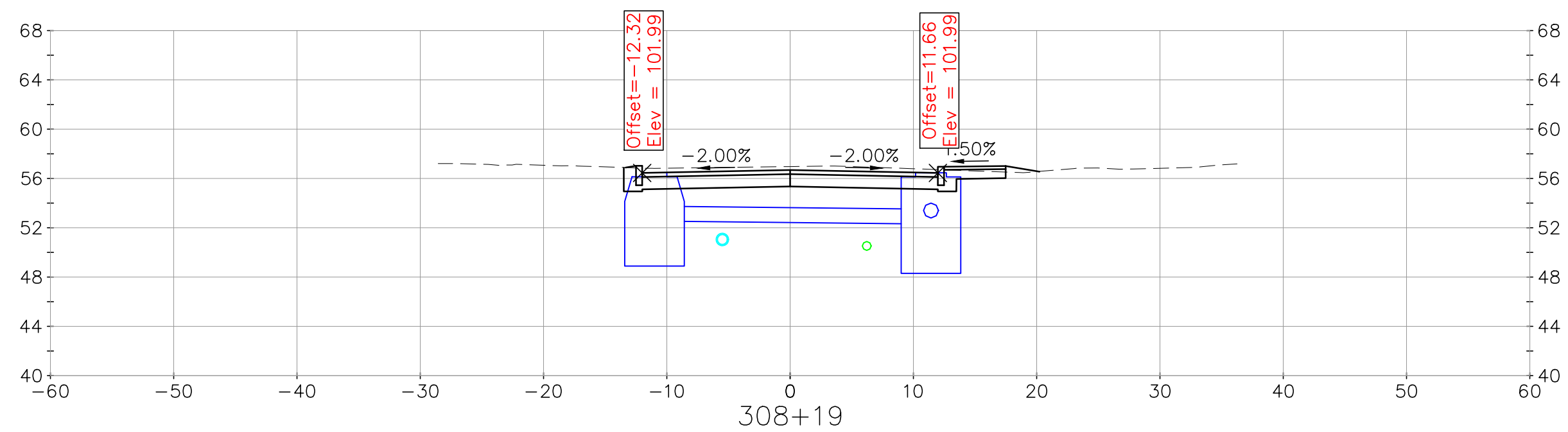
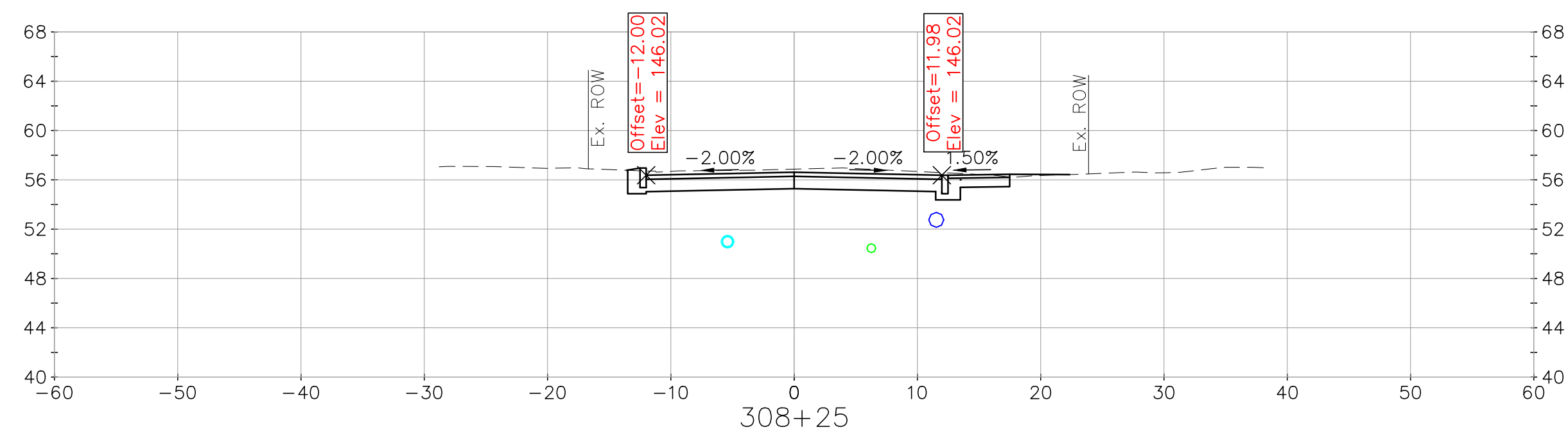
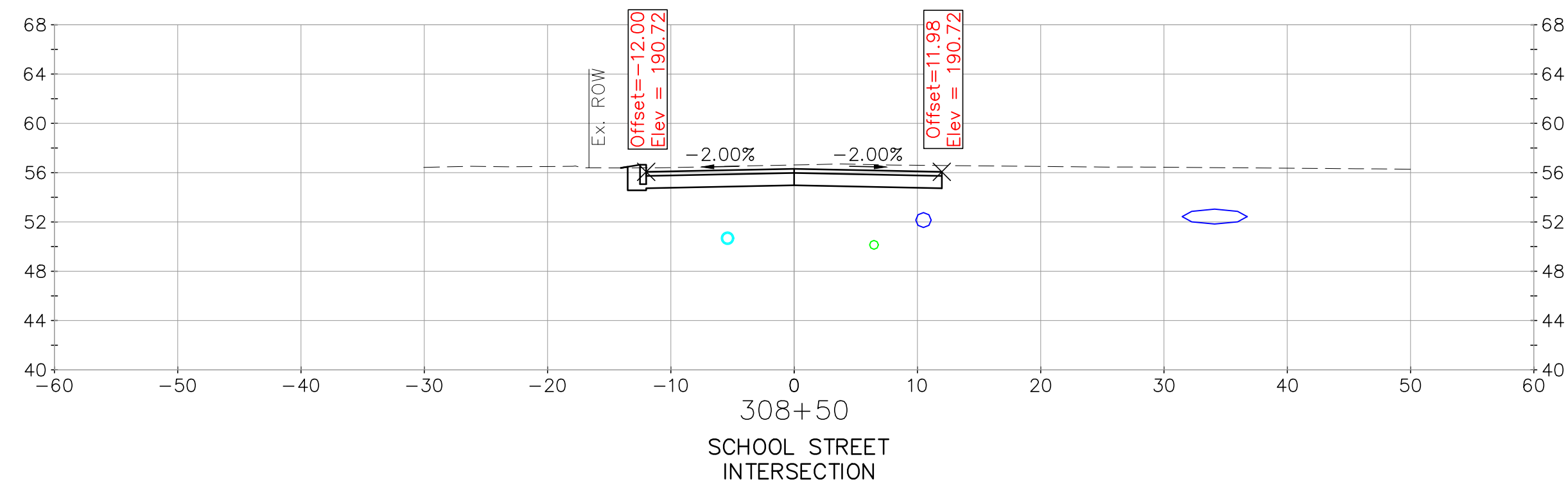
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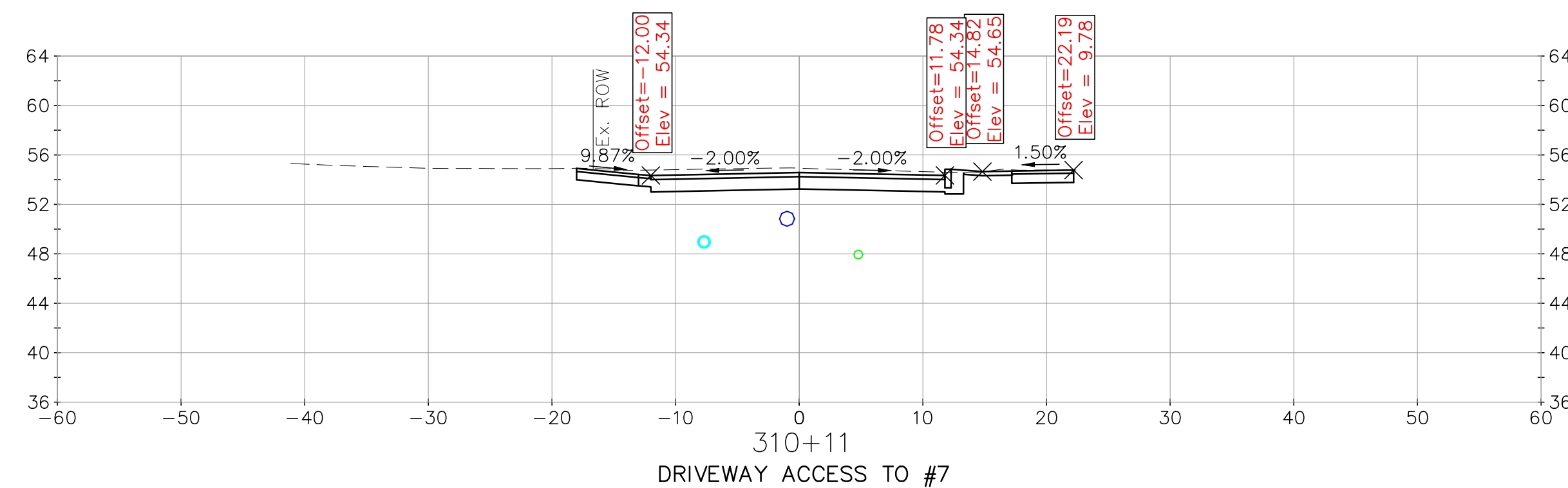
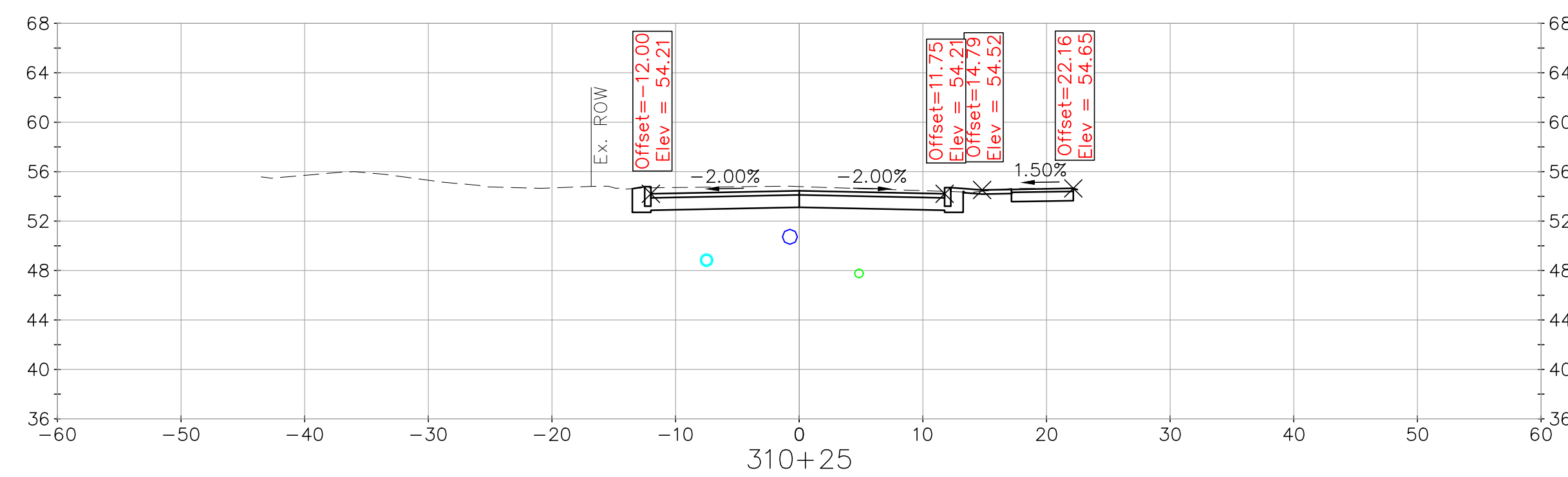
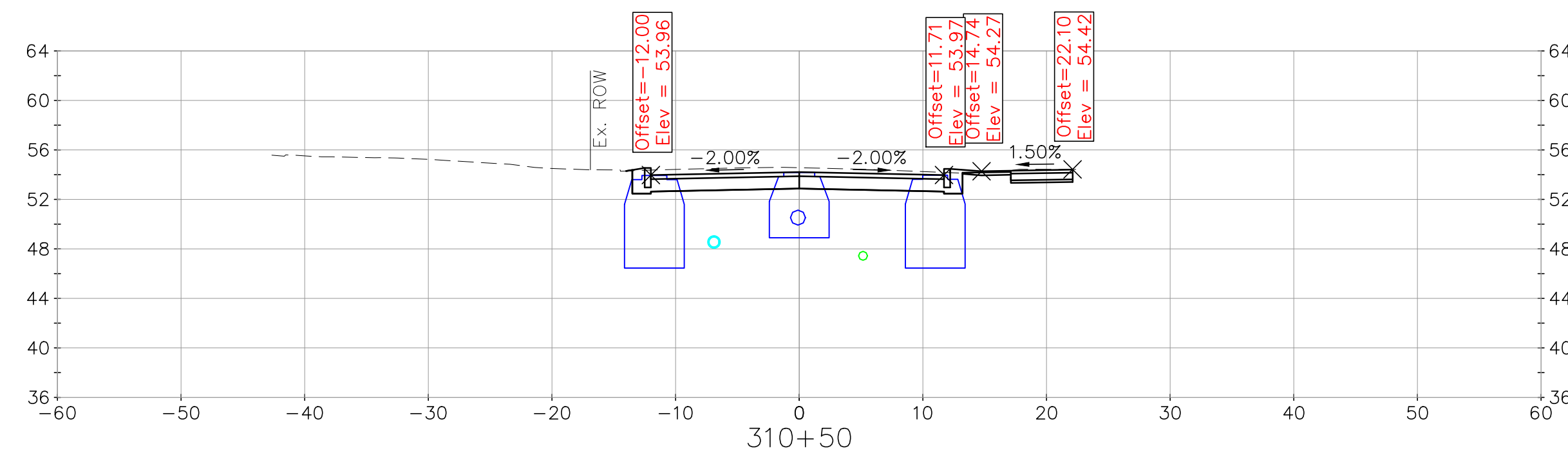
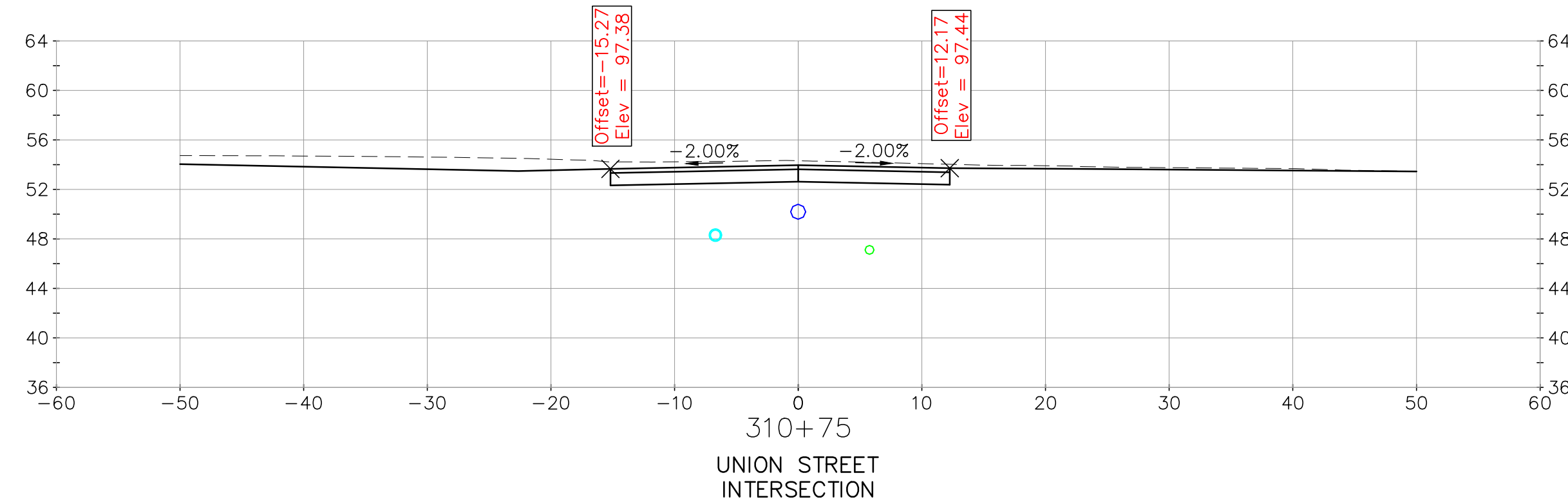
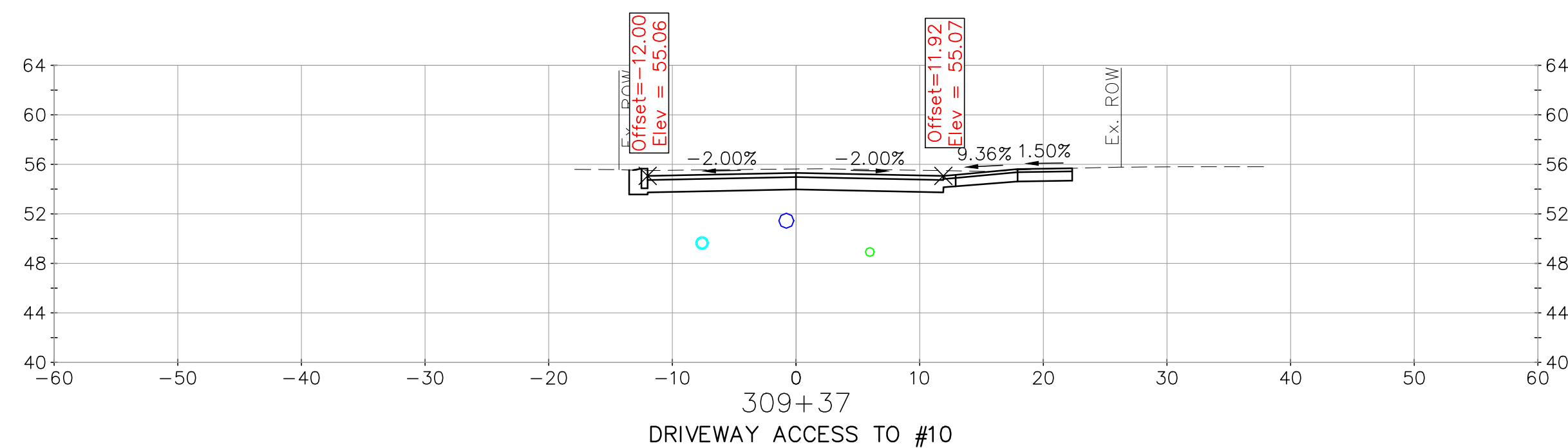
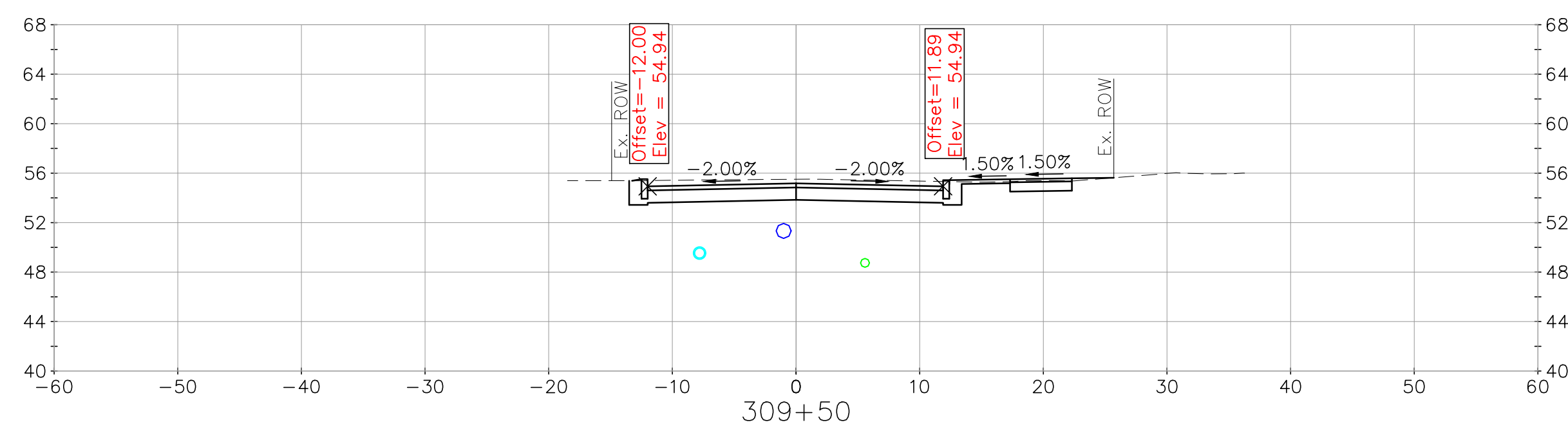
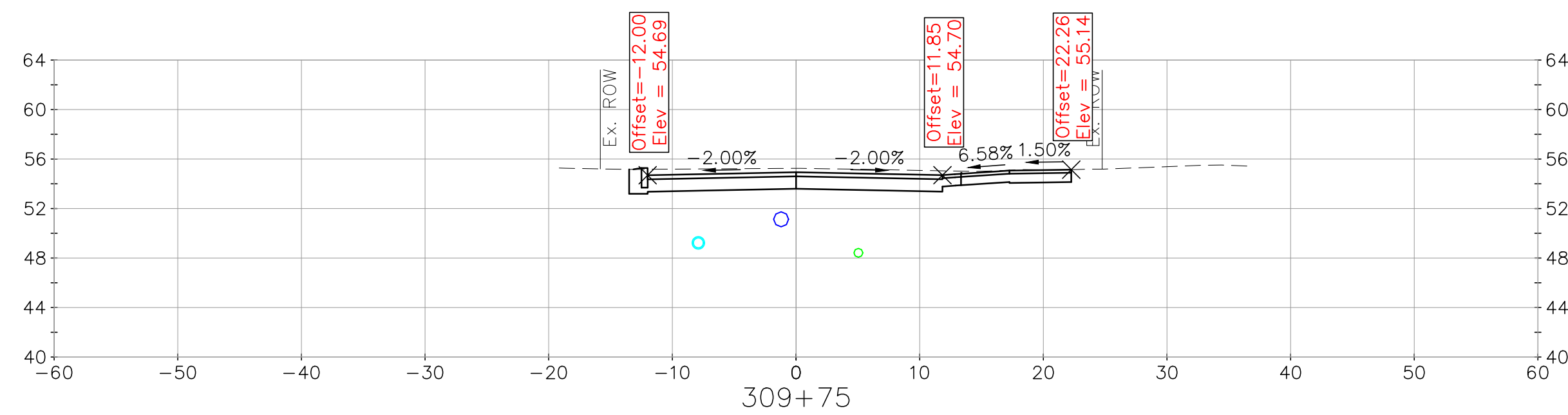
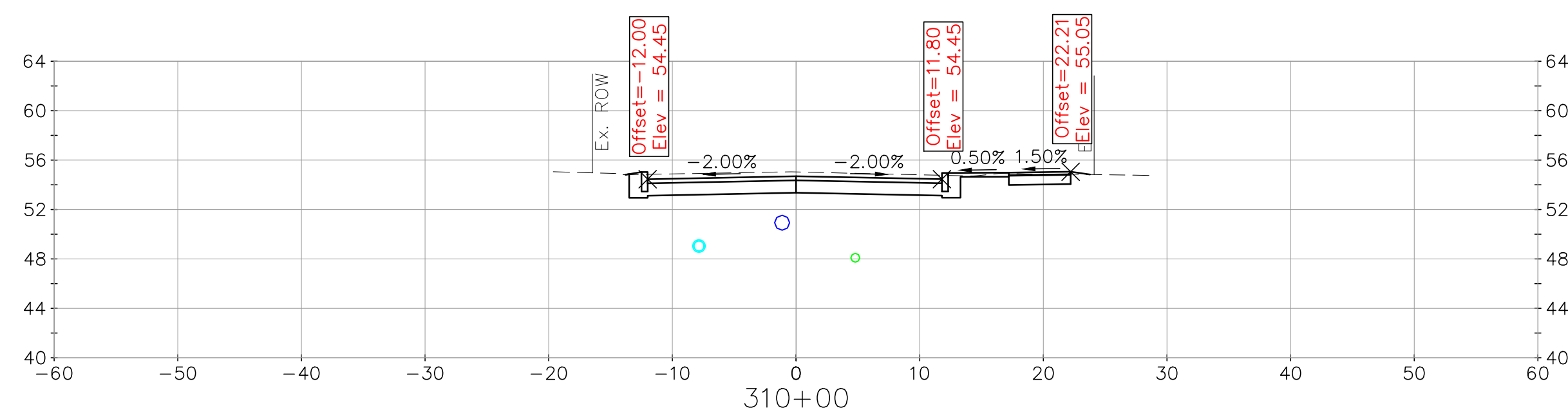
date: July 2026	designed by: CFC/WAB
project no: 1350	drawn by: FDG/CLM
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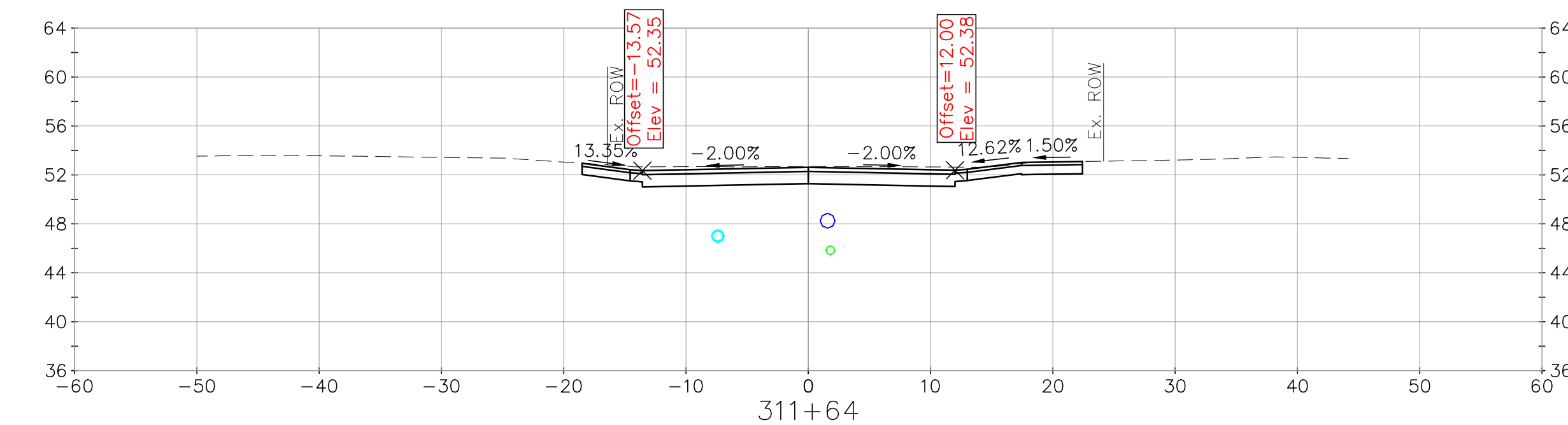
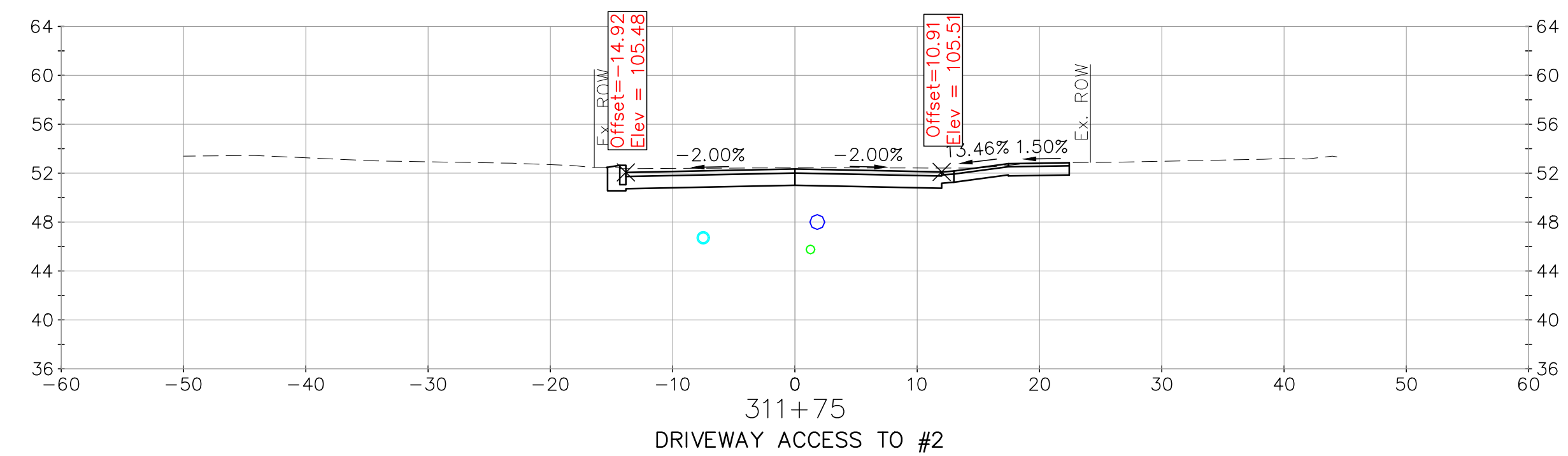
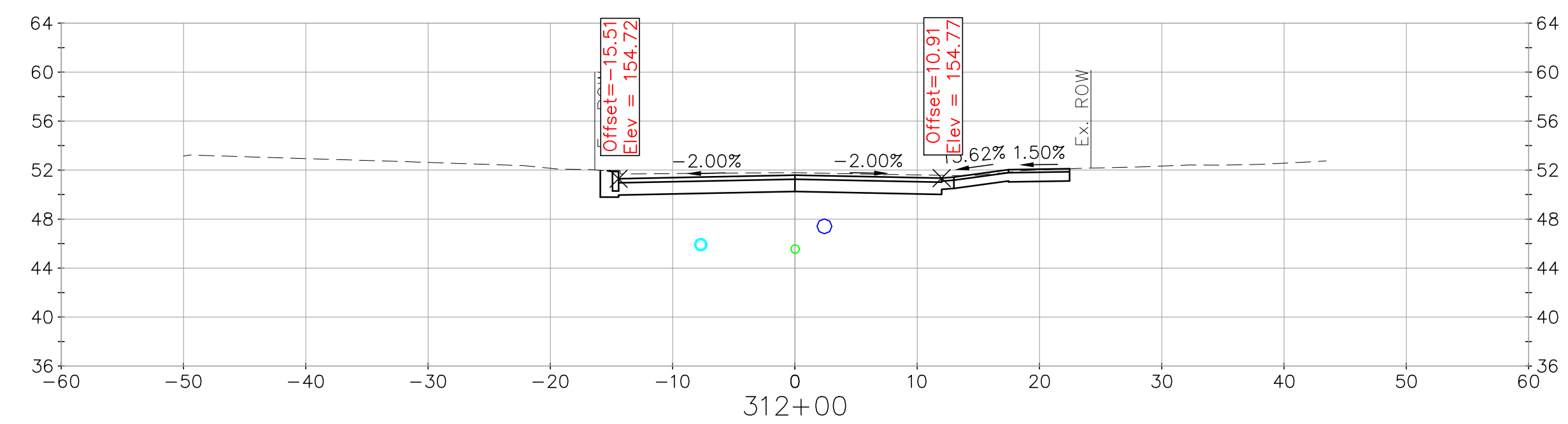
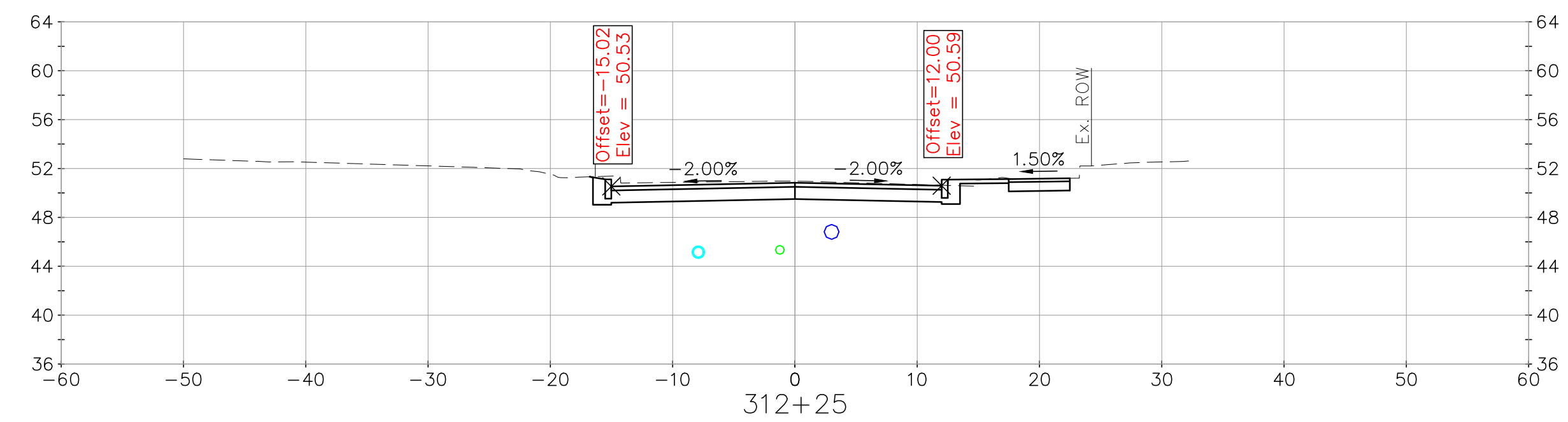
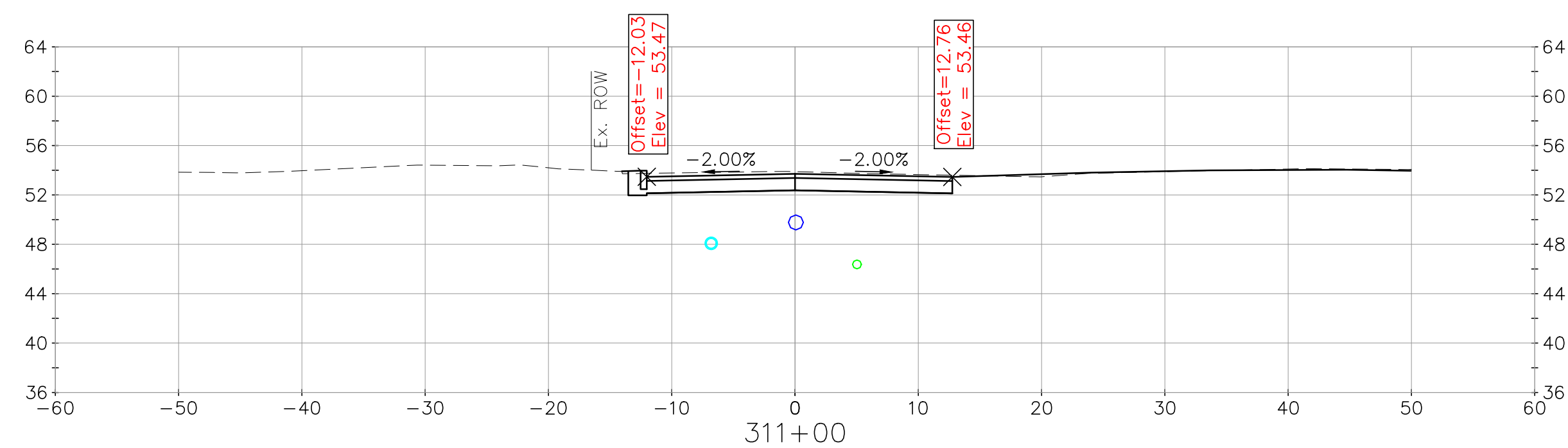
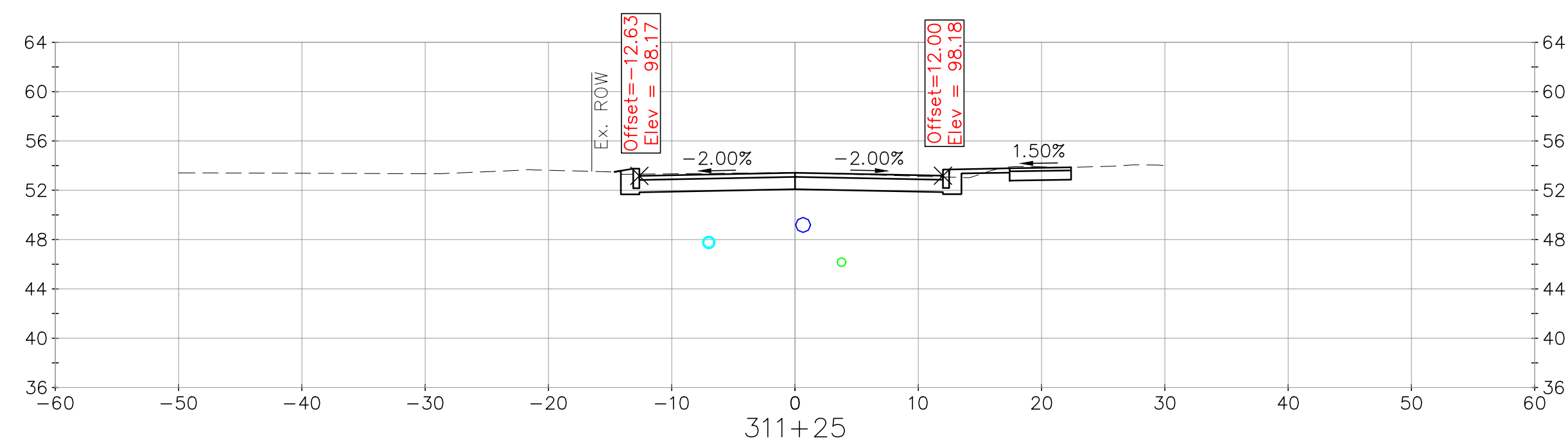
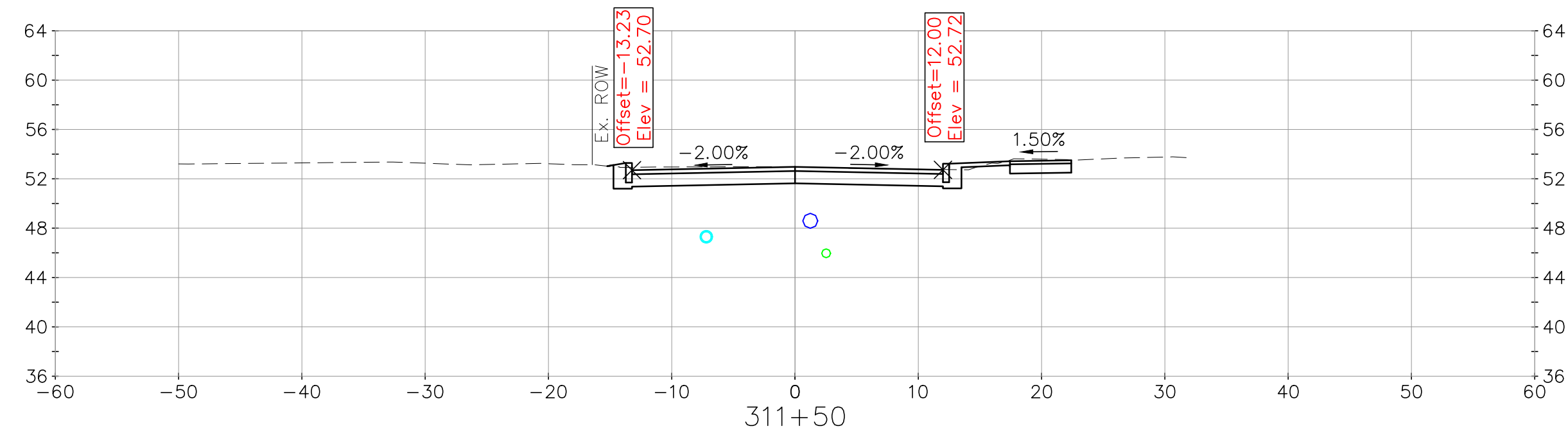
Town of Exeter, New Hampshire Department of Public Works
School Street Area Utility Improvement Project
Cross Sections Garfield Street

drawing no.
XS-14
sheet: 45 of 49



Town of Exeter, New Hampshire Department of Public Works		date: July 2026	designed by: CFC/WAB	project no: 1350	drawn by: FDG/CLM	checked by: PAC	approved by: PAC	scale:		7/2/2026		CIVIL/ENVIRONMENTAL/STRUCTURAL	Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223	c m a a e n g i n e e r s . c o m	no.	1	Issued for Construction	revision	by	date																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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Town of Exeter, New Hampshire Department of Public Works		date: July 2026	designed by:	CFC/WAB		7/2/2026	CMAA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH • Manchester, NH • Portland, ME 603/431-6196 • 603/627-0708 • 207/541-4223 c m a e n g i n e e r s . c o m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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