

justification.

SENECA NATION OF INDIANS PERMIT APPLICATION FOR CONSTRUCTION PROJECTS WITHIN WATERWAYS

PIN #:	5758.79		CPC #:	
BIN # / CIN #:	BIN 6012230	, Various small culverts	_	(SNI Use Only)
Lead Agency:	NYSDOT			
Address:	100 Seneca S	St Buffalo NY 14203		
Contact Person:	Michael Jurk Environment	owski – Regional tal Contact		
Telephone:	716-847-343	0	Fax #:	Email: michael.jurkowski@dot.ny.gov
Prime Contractor:	TBD – Contra	act has not been awarded		
Address: Contract Person:				
Telephone:			Fax #:	
Insurance:			<u></u>	
The Seneca Nation o	nsurance to: Ser Dire PO 90	st be listed as an additional neca Nation of Indians ector of Department of Tr Box 231 Ohi:yo' Way amanca, NY 14779		pon approval of application. n
PERMIT TYPE REQU	ESTED:			
•		rities within the top of the		waterway.
	ter is limited	to June 1st through Augus	st 31 st .	
1 - BIN 6012230		BRIDGE (Over 20')		
2 – 182+50 and 196+	-00 (6/7/22)	\$800.00 CULVERT (Under 20') \$400.00		
2,656-feet of gabion USGS mapped portion Allegany River – See	on of	OTHER (i.e., Cleaning, Re \$200.00 per linear feet	ealignment,	bank stabilization, etc.)

EXTENSIONS FOR WORK IN THE WATER MAY BE REQUESTED: TBD by Contractor – See attached justification.

The deadline for submitting for EXTENSIONS is two (2) weeks prior to the second Saturday in August. Fees for EXTENSIONS are refundable if work is completed by August 31st.

rees for Ex	CLEINSIONS are r	erundable if work is completed by August 31".
		September 1 st through September 8 th
	BRIDGE	\$200.00
	CULVERT	\$100.00
	OTHER	\$50.00 per 100 linear feet
		September 1 st through September 15 th
	BRIDGE	\$400.00
	CULVERT	\$200.00
	OTHER	\$100.00 per 100 linear feet
Permit fee	s payable to the	SENECA NATION OF INDIANS by check or money order to:
		Seneca Nation of Indians
		PO Box 231
		90 Ohi:yo' Way
		Salamanca, NY 14779
ENVIRON	MENT AFFECTED	:
Χ	WATER	UTILTIES
X	GRAVEL BARS	STORM SEWERS
Χ	TOPSOIL	OTHER
X - 6.2	TREES / VEGET	ATION
acres		
*	Attach an inventor	ry of affected trees and vegetation
LOCATIO	N OF PROJECT:	Old Route 17 from the intersection of Bunker Hill Road to approximately 1700 feet
		southwest of Breed Run Road in the Towns of Cold Spring, Red House and
		Salamanca in Cattaraugus County.
NAME OF	AFFECTED WA	UNT to Allegheny River (2-small culverts) and Allegheny River (BIN
_	ed on a USG Quadr	
, is defined	ca on a ood quadr	wield wide
IS THIS PR	OJECT COMPLET	FELY WITHIN A RIGHT-OF-WAY
		R.O.W. Agreements, Temporary Easements – See attached Project Plans
		•
X	Yes	
	No	

DATES OF OPERATION:

Beginning: Spring 2023 Ending: 12/2024	
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NARRATIVE DESCRIPTION:

The proposed project consists of two parts: rehabilitating the roadway section with an unpaved wearing surface, and replacement of the bridge over the Allegheny River. Certain areas where the roadway is failing will need additional treatments to stabilize the roadway. These additional treatments include placing a gabion wall along approximately 3,600 feet of the existing roadway to provide stability along the roadway. Under existing conditions, water from the river undermines the material underneath the pavement, weakening it and causing the pavement to shift, fall apart, and in some cases cause concrete slabs to slide into the river. The gabion wall, complemented by several cross pipes, will increase the stability of the roadway. The proposed gabion wall will be placed approximately 10-feet from the existing edge of pavement and be installed to a depth of 3-6 feet. For much of the extent of the proposed wall, it will not reach or be below OHW. Drainage ditches within the project limits will be reestablished. Fifteen (15) small culverts within the project limits will be replaced or added to the corridor, only two (2) of these carry USGS mapped streams.

The existing bridge (BIN 6012230) over the Allegheny River will be replaced along the same alignment with a conventional bridge. The new bridge will have abutments behind the existing abutments. The existing three (3) piers will be partially removed and replaced with four (4) smaller piers. New permanent in water impacts will be due to the piers and placement of heavy stone fill along the banks below the abutments. Approximately 133 cubic yards of heavy stone fill and bedding material is proposed to be installed below ordinary high water (OHW) along the bed/banks as bank protection. Installation of four (4) new piers will impact approximately 145 square feet (SF) of riverbed. Temporary impacts from installation of causeway will impact 31,968 SF of riverbed, spread out over two (2) phases (Phase 1 - 14,931 SF, Phase 2 - 17,577 SF). Proposed permanent fill is anticipated to impact no more than approximately 0.0241 acre (1,050 SF) of stream channel below OHW.

JURISDICTION:

By making application for a permit, the applicant and its associated agents shall consent to the exclusive jurisdiction of the Seneca Nation of Indians Peacemakers' Court over all applicant's / agent's activities while on Seneca Nation Land. The Seneca Nation in its discretion may pursue enforcement action in courts outside the Seneca Nation.

SIGNATURE PAGE			
Application Submitted by:	Michael Jurkowski, Regior	nal Environmental C	Contact
Application Submitted by.		Name / Title	
Agency / Company:	New York State Departme	ent of Transportatio	n
July 14, 2022	MP 4	luluh:	
Date		Signature	
		•	
SENECA NATION OF INDIAN	IS use only:		
Reviewed by:		Date:	
RECOMMENDATION:			
Rejected			
Referred To:			For Review
Recommended fo	or Tribal Council Approval		
RECOMMENDATION:			
Rejected			
Referred To:			For Review
Recommended fo	or Tribal Council Approval		
VALID ONLY	WITH CERTIFIED COUN	CIL RESOLUTION	I ATTACHED
Date	Clerk		
	Seneca Nation o	of Indians	

The following general conditions must be followed in order for any authorization of a Seneca Nation Creek Permit for Construction Projects to be valid. The permit and conditions apply to any creek, stream, or other waterway that appears on USGS quadrangle map. Fill and other construction activities necessary for completion of a project are subject to Section 404 and 401 of the Federal Clean Waters Act of 1977. All activities will be periodically inspected by Seneca Nation representatives.

GENERAL CONDITIONS

- 1. Navigation. No activity may cause more than minimal adverse effect on navigation.
- 2. *Proper maintenance*. Any structure or fill authorized shall be properly maintained, including maintenance to insure public safety.
- 3. *Erosion and siltation controls.* Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills must be permanently stabilized at the earliest practicable date.
- 4. Aquatic life movement. No activity may substantially disrupt the movement of those species which normally migrate through the area, unless the activities primary purpose is to impound water.
- 5. *Equipment*. Heavy equipment working in wetlands must be placed on mats or other measures must be taken to minimize soil disturbances.
- 6. *Tree Removal.* An inventory of all affected trees shall be supplied for review by the Nation prior to commencement of work. Tree replacement may be required at a 2:1 ratio.
- 7. Suitable material. No discharge of dredged or fill material may consist of unsuitable material (e.g. trash, debris, car bodies, etc.) and materials discharged must be free from toxic pollutants in toxic amounts.
- 8. *Mitigation*. Discharges of dredged or fill material into waters of the Seneca Nation must be minimized to the maximum extent practicable at the project site (i.e. on-site), unless the SNI Council has approved a compensation mitigation plan for the specific regulated activity.
- 9. *Spawning areas.* Discharges into spawning areas during spawning seasons must be avoided to the maximum extent practicable.
- 10. Obstruction of high flows. To the maximum extent practicable, discharges must not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).
- 11. Adverse impacts from impoundments. If the discharge creates an impoundment of water, adverse impacts on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable.
- 12. Removal of temporary fills. Any temporary fills must be removed in their entirety and the affected area returned to their preexisting elevation and vegetation must be re-established.

- 13. *Discharge of materials*. This permit does not authorize the discharge of dredged or fill materials into any waterway for the purpose of creating temporary structures that include but are not limited to groins, work pads, lay-down areas, and access roads.
- 14. Excess fill materials. Any excess fill material shall be disposed of at an upland site well removed from a waterway and the adjacent wetland, and shall be adequately to preclude re-entry into these waters.
- 15. Responsibility. The lead agency is responsible for ensuring that the contractor and / or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document is at the project site throughout the period the work is underway.
- 16. *Tree disposal*. The disposal of trees, brush and other debris in any stream corridor, wetland or surface water is prohibited.
- 17. *Debris*. Every effort shall be made to keep construction debris from entering the waterway or wetland, and shall be removed immediately should any such debris be present in the waterway or wetland.
- 18. *Discharge material*. Any discharge of dredged or fill material shall consist of suitable material free from toxic pollutants in toxic amounts.
- 19. *Erosion and sediment control*. All erosion and sediment control practices shall be in place prior to any grading or filling operations and installation of proposed structures or fills. They shall remain in place until construction is completed and the area is stabilized.
- 20. *Erosion prevention.* As soon as possible following construction all exposed banks and slops shall be seeded and mulched to prevent erosion.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

- 21. All erosions and sediment control devices shall be placed prior to starting earthwork operations.
- 22. Temporary soil erosion and sediment control devices shall be checked and repaired as necessary, on a weekly basis and after each storm event. Periodic cleaning of the soil erosion and sediment control devices shall be necessary. Sediment deposits shall be removed from behind silt fences whenever more than 6 inches (150mm) of material has accumulated or if the fence has been breached or is bulging. Sediment traps and check dams shall be checked after each storm event and cleaned out if sediment deposits exceed 6 inches (150mm) or if one-half the design capacity has been exceeded, whichever is less.
- 23. Any disturbed areas that shall be left exposed more than 14 days, and are not subject to construction traffic shall immediately receive temporary seeding.
- 24. Any graded areas not subject to further disturbance or construction traffic shall within 14 days of final grading receive permanent vegetative cover.
- 25. All storm drainage outlets shall be stabilized before the discharge points become operational.
- 26. The site shall at all times be graded and maintained such that all storm water runoff is diverted to soil erosion and sediment control facilities.

- 27. Storm water from disturbed areas must be passed through a straw bale dike, sediment trap, or siltation fence before discharge beyond disturbed areas or into inlets of other drainage systems.
- 28. All stream channel work shall be limited to within the designated right-of-way; easement, approved temporary easements limits, or as described in approved Seneca Nation Consent and Release forms.
- 29. During construction, no wet or fresh concrete or leachate shall be allowed to escape to any waters nor shall washing from concrete trucks, mixers, or other devices be allowed to enter any waters.
- 30. All dredged and excavated material shall be disposed of on any upland site and be suitably stabilized so that it cannot reasonably re-enter any water body.
- 31. In the event de-watering operation becomes necessary a settling basin will be required unless the pump discharge is clear and free of sediment as the flowing stream.
- 32. Heavy equipment shall not be driven in the water.
- 33. The locations of erosion and sediment control measures may require field adjustments depending on the sequence of construction activities, construction methods, and / or actual field conditions. The Seneca Nation shall be immediately notified of any significant field changes to the erosion and sediment control measures indicated in the application.

PROJECT LOCATION MAPS

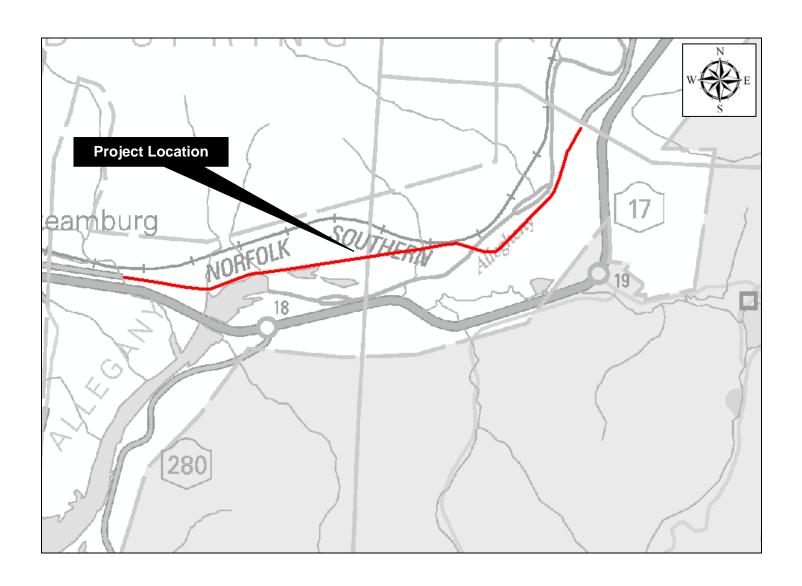
BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT

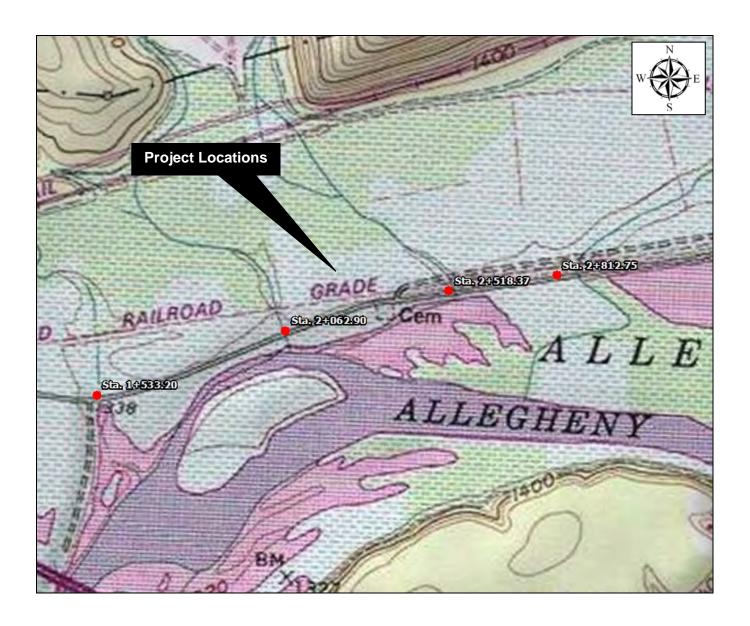
OLD ROUTE 17

PIN 5758.79

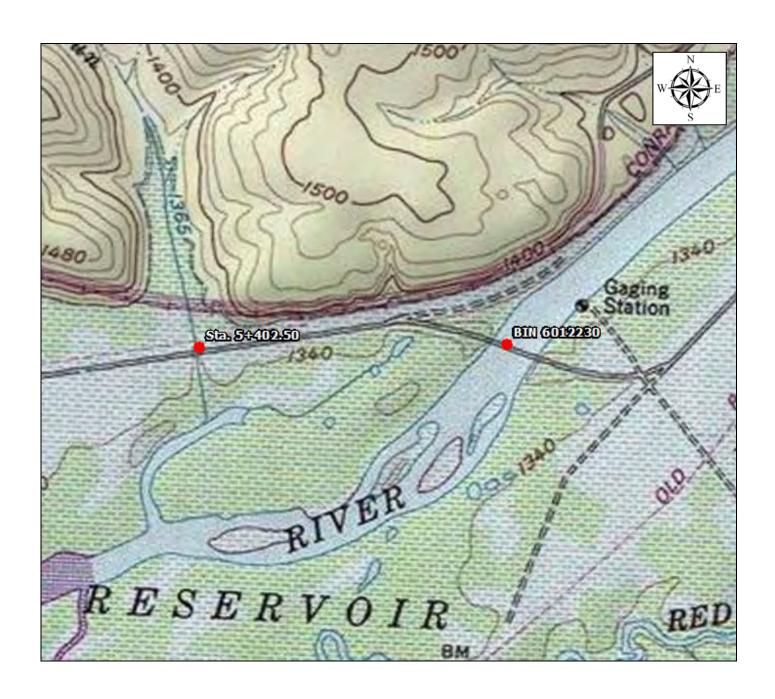
SENECA NATION OF INDIANS (SNI) ALLEGANY TERRITORY

CATTARAUGUS COUNTY











PHOTOGRAPHS

BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT

OLD ROUTE 17

PIN 5758.79

SENECA NATION OF INDIANS (SNI) ALLEGANY TERRITORY

CATTARAUGUS COUNTY



1. View of Culvert Sta 1+533.20 inlet. Image date: October 21, 2020.



2. View of Culvert Sta 1+533.20 outlet. Image date: October 21, 2020.



3. View of Culvert 2+062.90 inlet. Image date: October 21, 2020.



4. View of Culvert 2+062.90 outlet. Image date: October 21, 2020.



5. View of Culvert 2+518.37 inlet. Image date: October 21, 2020.



6. View of Culvert 2+518.37 outlet. Image date: October 21, 2020.



7. View of Culvert 2+812.75 inlet. Image date: October 21, 2020.



8. View of Culvert 2+812.75 outlet. Image date: October 21, 2020.



9. View of Culvert 5+402.50 inlet. Image date: October 21, 2020.



10. View of Culvert 5+402.50 outlet. Image date: October 21, 2020.



11. View of underside of BIN 6012230, eastern side. Image date: October 21, 2020.



12. View of BIN 6012230 from mid-river. Image date: October 21, 2020.

PLANS

BRIDGE REPLACEMENT AND HIGHWAY REHABILITATION PROJECT OLD ROUTE 17

PIN 5758.79

SENECA NATION OF INDIANS (SNI) ALLEGANY TERRITORY

CATTARAUGUS COUNTY



OLD ROUTE 17
BUNKER HILL ROAD TO BREED RUN ROAD
RED HOUSE BRIDGE
TOWNS OF COLD SPRING, RED HOUSE AND SALAMANCA
CATTARAUGUS COUNTY

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCIMENTS

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL."

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES AND THE FINAL DESIGN REPORT APPROVED ON --/-/---

CONTRACT DXXXXXX

COUNTY: CATTARAUGUS

CONTRACTOR'S NAME	
AWARD DATE	
COMPLETION DATE	
FINAL ACCEPTANCE DATE	
REGIONAL DIRECTOR	
ENGINEER IN CHARGE	
FINAL COST TOTAL	
FISCAL SHARE	COST(S)

	WALL BA BO		ITY OF - LAMANCA 219	417
CONTRACT LIMITS 951 T51011011	PROJECT ENDS STA 420+45 BIN 6012230 RD RD PROJECT ENDS STA 420+45	CONTRACT LIMITS 200 FT NORTH OF E	BREED RUN	SOUTHERN THE DESCRIPTION OF THE
950A (SECTION OF THE PROPERTY	IT 18	THE STATE OF THE S	THE PROPERTY OF THE PROPERTY O	219 417 86

PROJECT LOCATION
THIS PROJECT IS LOCATED ON OLD ROUTE 17 FROM BUNKER HILL
ROAD TO BREED RUN ROAD. ALSO LOCATED WITHIN THE PROJECT LIMITS
IS BIN 6012230 OVER THE ALLEGHENY RIVER IN CATTARAUGUS COUNTY.

RECOMMENDED BY RECOMMENDED BY RECOMMENDED BY RECOMMENDED BY APPROVED BY

REGIONAL DESIGN ENGINEER DATE REGIONAL CONSTRUCTION ENGINEER DATE REGIONAL DIRECTOR OF OPERATIONS DATE REGIONAL TRAFFIC ENGINEER DATE REGIONAL DIRECTOR DATE SANJYOT S. VAIDYA, P.E. DANIEL W. PASKIE, P.E. JOHN COGSWELL, P.E. MICHAEL ROCHE, P.E. FRANK CIRILLO, SR/WA

COUNTY: CATTARAUGUS
FED. ROAD REG. NO. STATE SHEET N

FED. ROAD REG. NO. STATE SHEET NO.

1 N.Y. 01

CAPITAL PROJECT IDENTIFICATION NO. 5758.79

OLD RTE 17, BUNKER HILL RD TO BREED RUN ROAD
OLD RTE 17 (BIN 6012230) OVER ALLEGHENY RIVER

ALLEGHENY SENECA NATION INDIAN RESERVATION

INDEX ON SHEET NO. 02

FILE NAME = 575879_CPH_CVR DATE/TIME = 29-JUN-2022 14:02 USER = con³ad

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E = 29-JUN-2022 14:02	.R = Joonrad	
DATE/TIME	- USER	-

	ALIGNMENT		TOPOGRAF	PHY (
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	N
AH	AHEAD	ABUT	ABUTMENT	
AZ	AZIMUTH	AOBE	1	BY EN
BK	BACK	ASPH		
₽ PDC	BASELINE	BDY		
BRG	BEARING CENTERLINE	BLDG BM	+	
CS CS	CENTERLINE CURVE TO SPIRAL	CC		
е	SUPERELEVATION RATE (CROSS SLOPE)	CONC	+	CLIVILI
EQ	EQUALITY	CONST		ON
EXT	EXTERNAL	CR	COUNTY ROA	D
HCL	HORIZONTAL CONTROL LINE	D		
HSD	HEADLIGHT SIGHT DISTANCE	DM		SUREME
L	LENGTH OF CIRCULAR CURVE LENGTH OF SPIRAL	DWY	 	VENEN
LS LVC	LENGTH OF SPIRAL LENGTH OF VERTICAL CURVE	EP ES	+	
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	 	
<u></u>	MAIN LINE	FEE WO/A		
PC	POINT OF CURVATURE	FP		
PI	POINT OF INTERSECTION	FD	FOUNDATION	
POL	POINT ON LINE	FL	1	
PSD	PASSING SIGHT DISTANCE	GAR		
PT	POINT OF TANGENT	GR		
PVC PVI	POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION	HWY	+	
PVT	POINT OF VERTICAL TANGENT	IP		IRON
R	RADIUS	МВ		211011
SC	SPIRAL TO CURVE	MON		
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND W	ASHER
ST	SPIRAL TO TANGENT	OG		OUND
STA	STATION	0/H	+	
TGL	TANGENT LENGTH THEORETICAL GRADE LINE	PAV'T		
TS	TANGENT TO SPIRAL	PE	1	FASEM
VC	VERTICAL CURVE	PED POLE		
	TOPOGRAPHY (DRAINAGE)	PL PL		
4000		POR	PORCH	
ABBR.	DESCRIPTION	RR	+	
BB	BOTTOM OF BANK (STREAM)	RTE		• • • • • • • • • • • • • • • • • • • •
BC B0	BOTTOM OF CURB BOTTOM OF OPENING	ROW	1	
CAP	CORRUGATED ALUMINUM PIPE	RW SH		
CB	CATCH BASIN	SHLDR		IAI
CIP	CAST IRON PIPE	SPK		
© STRM	CENTERLINE OF STREAM	ST	STREET	
CMP	CORRUGATED METAL PIPE	STK		
CP	CONCRETE PIPE	STY		
CSP	CORRUGATED STEEL PIPE	SW TE		EACEM
CUL V DIA	CULVERT DIAMETER	TO	1	
DMH	DRAINAGE MANHOLE	U/G		
DS	DRAINAGE STRUCTURE PIPE	WW		
D'XING	DITCH CROSSING			
EHW	EXTREME HIGH WATER	Г	STANDARD	ITE
EL	ELEVATION		SYMBOL	EST
ELEV	ELEVATION WATER		(PLANS)	QU/
ELW ES	EXTREME LOW WATER END SECTION	l	п	-
HW	HEADWALL	1	,	LF
INV	INVERT	1	mi	MI
МН	MANHOLE	j [f†²	SF
MHW	MEAN HIGH WATER] [YD ²	SY
OHW	ORDINARY HIGH WATER		AC	AC
	ORDINARY LOW WATER		YD ³	CY
OL W	REINFORCED CONCRETE PIPE	」	GAL	GAL LB
RCP				
RCP SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE	∤ ⊢	TON	
RCP SICPP TB	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE TOP OF BANK (STREAM)	l E	TON TON	TON
RCP SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE			

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
II .	-	INCHES
,	LF	LINEAR FEET
mi	MI	MILES
f†²	SF	SQUARE FEET
YD ²	SY	SQUARE YARD
AC	AC	ACRES
YD ³	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

TOPOGRAPHY (MISCELLANEOUS)

DM DIRECT MEASUREMENT

IP IRON PIN OR IRON PIPE

E WO/A FEE ACQUISITION WITHOUT ACCESS

TE TEMPORARY EASEMENT

TO TEMPORARY OCCUPANCY

PE PERMANENT EASEMENT

ABUTMENT AOBE AS ORDERED BY ENGINEER UTILITIES

DESCRIPTION

ELECTRIC MANHOLE

GV GAS VALVE (MAIN LINE)

LPG LOW PRESSURE GAS PP POWER POLE

SA SANITARY SEWER

TELBOX TELEPHONE BOX

W WATER

TEL P TELEPHONE POLE

SMH SANITARY MANHOLE ST STORM SEWER
T TELEPHONE

TCB TRAFFIC CONTROL BOX

TMH TELEPHONE MANHOLE

WSB WATER SERVICE BOX (HOUSE LINE)

REPLACE ABBREVIATION "AB" WITH:

DA 21/4 INCHES CASED DRILL HOLE

DN 4 INCHES CASED DRILL HOLE

PERCOLATION TEST HOLE

RP 1 INCH SAMPLER (RETRACTABLE PLUG)

TO BE DEFINED AT THE TIME OF EXPLORATION

TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

FH HOLLOW FLIGHT AUGER

ABBREVIATION "C" IN CATEGORIES:

SUBSURFACE EXPLORATION

WV WATER VALVE (MAIN LINE)

DESCRIPTION

AH HAND AUGER CP CONE PENTROMETER

DM DRILLING MUD

PA POWER AUGER PH PROBE

SP SEISMIC POINT

DA, DM, DN, AND FH WITH:

CULVERT

WALL

TP TEST PIT

B BRIDGE C CUT

D DAM

F FILL

ΚŢ

W

CTV CABLE TELEVISION

GSB GAS SERVICE BOX (HOUSE LINE)

E ELECTRIC

GP GUY POLE

HYD HYDRANT

LP LIGHT POLE

G GAS

ABBR.

INDEX	TOTAL NUMBER OF SHEETS = XX					
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER				
1	TITLE SHEET	CVR-1				
2	INDEX AND ABBREVIATIONS	IND-1				
3 TO 4	LEGEND, LINE AND POINT SYMBOLOGY	LEG-1 TO LEG-2				
5 TO 6	TYPICAL SECTIONS	TYP-1 TO TYP-2				
	GENERAL NOTES	GNN-1 TO				
	BASELINE TIES	BLT-1 TO BLT-7				
	WORK ZONE TRAFFIC CONTROL	WZTC-1 TO				
	MISCELLANEOUS TABLES	MST-1 TO				
	MISCELLANEOUS DETAILS	MSD-1 TO				
	GENERAL PLANS	GNP-1 TO GNP-57				
	PROFILE	PRO-1 TO PRO-30				
	GABION PROFILE	PRO-01G TO PRO-08G				

OLD ROUTE 17, BUNKER HILL RD TO BREED RUN ROAD		PIN 5758.79	BRIDGES	CULVERTS	ALL DIMENSIONS IN f† UNLESS OTHERWISE	NOTED	CONTRACT NUMBER
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER			6012230	C510207	INDEX		
ALLEGHENY SENECA NATION INDIAN RESERVATION					MBEX		DD I WITH A TAID 4
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA							DRAWING NO. IND-1
COUNTY: CATTARAUGUS	REGION: 05						SHEET NO.
			-]	1

D ROUTE 17, BUNKER HILL RD TO BREED RUN ROAD	BUNKER HILL RD TO BREED RUN ROAD		BRIDGES 6012230	CULVERTS C510207	ALL DIMENSIONS IN ft UNLESS OTHERWISE	NOTED	CONTRACT NUMBER
D ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER			6012230	C310201	INDEX		
LEGHENY SENECA NATION INDIAN RESERVATION					MOEX		DD 41117110 410 711D 4
WN OF COLD SPRING, RED HOUSE AND SALAMANCA							DRAWING NO. IND-1
UNTY: CATTARAUGUS	REGION: 05						SHEET NO.
						∫ STA	Department of Transportation

LANDSCAPE **ALIGNMENT** ROADWAY STYLE NAME NAME STYLE NAME DESCRIPTION STYLE **DESCRIPTION** DESCRIPTION AREA, BRUSH LINE CZ -RCZ_P CONTROL (CENTERLINE) LABL CLEAR ZONE ~~~~~ AD_P DETOUR LAHR AREA, HEDGE ROW GUIDE RAIL, MISCELLANEOUS 1111111111 AT_P TRANSITION CONTROL LAPB AREA, PLANTING BED __ RGR GUIDE RAIL, BOX BEAM **BRIDGE** AREA, WOODED AREA OUTLINE LAWA RGBM GUIDE RAIL, BOX BEAM, MEDIAN ______ AREA. WATERS EDGE RGC STYLE LAWE GUIDE RAIL, CABLE RR RAIL ____ ____ BSHT SHEET PILING LCUT_P CUT LIMIT RGCB GUIDE RAIL, CONCRETE BARRIER __ 1/[-RGP_P CONTROL LFILL_P FILL LIMIT GUIDE POST 0 0 RGW LENC **FENCE** -XI-GUIDE RAIL. W BEAM LTRC TREE ROW, CONIFEROUS RGWM GUIDE RAIL, W BEAM, MEDIAN CBPR \square M BASELINE, PROJECTION LTRD TREE ROW, DECIDUOUS PARKING BUMPER DRAINAGE RRC l WH WALL, H PILE ()= RAIL ROAD, CATENARY CULVERT PIPE - OET-LWR WALL, RETAINING -3RRRER RAIL ROAD, 3RD RAIL DCP CULVERT PIPE (DIR 000000000 LWS WALL, STONE RRPLS_P RAIL, PHOTO, LARGE SCALE DDG_P DITCH, GRASS LINED **ROW MAPPING** – *\F0*[-RRPSS RAIL, PHOTO, SMALL SCALE -# DDP_P DITCH, PAVED INVERT DEED LINE OFO. RRS RUMBLE STRIP - PF -EASEMENT, EXISTING DDS_P DITCH, STONE LINED RRSLS_P RAIL. SURVEY, LARGE SCALE MEP_P EASEMENT, PERMANENT DFL_P FLOW LINE MEPA_P EASEMENT, PERMANENT, APPROX. RRSSS RAIL, SURVEY, SMALL SCALE - APE SLOTTED DRAIN SIGNS MET_P EASEMENT, TEMPORARY TE . DUD F INDERDRAIN SBLB - ATE -META_P EASEMENT. TEMPORARY, APPROX. _____ **BILLBOARDS** -]IC[-ENVIRONMENTAL SM MULTIPLE POST FEE ACQUISITION, W/ ACCESS FEE ECT CURTAIN, TURBIDITY MFA_P FEE ACQUISITION, APPROXIMATE =====0SS0 STRUCTURE, OVERHEAD AFEE -0-0-0-0-0 EDMC DAM, COFFER SSOC STRUCTURE, OVHD, CANTILEVER MFS_P FEE ACQUISITION, SHAPE EDMEC_P DAM. EARTHEN CHECK **STRIPING** -FFF W/OA-FEE ACQUISITION, W/O ACCESS STR* MHA HISTORICAL. ACQUISITION BROKEN LINE EDMGSC P DAM, GRAVEL BAG/SAND BAG CHECK MHB HIGHWAY BOUNDARY STDB* DOUBLE BROKEN LINE -]SA[-EDMPC_P DAM, PREFABRICATED CHECK HIGHWAY BOUNDARY, APPROX. STDL* DOTTED LINE LONG - AHB MHRW HWY BOUNDARY, FACE OF WALL STDS* DOTTED LINE SHORT -lsaf EDMSC P DAM. STONE CHECK MHBWOA HIGHWAY BOUNDARY, W/O ACCESS STFB* FULL BARRIER LINE HB W/OA **EFNS** FENCE, SILT JURISDICTION, CITY STH* HATCH LINE FFNSV FENCE, SILT & VEGETATION MJCY JURISDICTION, COUNTY STPB* PARTIAL BARRIER LINE **EFNV** FENCE, VEGETATION MJHD JURISDICTION, HISTORIC DISTRICT STRCT ROUNDABOUT, CAT TRACKS -CTV-ESFL FILTER, SEDIMENT LOG ************ MJLL JURIS., (GREAT, MILITARY) LOT LINE STRYL ROUNDABOUT, YIELD LINE -]CTV[--AA FWAA P WETLAND, ADJACENT AREA MJN JURISDICTION, NATION STSB STOP BAR -OCTV FWF WETLAND, FEDERAL MJPB JURISDICTION, PUBLIC LANDS STSE* SOLID, EDGE **EWFS** WETLAND, FEDERAL AND STATE MJS JURISDICTION, STATE STXL X WALK, LADDER LINE EWM WETLAND, MITIGATION AREA M.IT JURISDICTION, TOWN EWS WETLAND, STATE STXLB X WALK, LADDER BAR LINE MJV JURISDICTION, VILLAGE * = W (WHITE) OR Y (YELLOW) PROPERTY LOT LINE TRAFFIC CONTROL PROPERTY LOT LINE, APPROXIMATE MPLA TCSW SIGNAL, SPAN WIRE MSL SUB LOT LINE 1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED). FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).

- 3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
- PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE
- MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
- 6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT

OLD POLITE 47 DINNER HTLL DD TO DDEEDS DIN DOAD	PIN 5758,79	BRIDGES	CULVERTS	ALL DIMENSIONS IN SURINGES ATTERNATES MATER	CONTRACT NUMBER
OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD	- FIN 5130-19	6012230	C510207	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER		*******	0010201	LEGEND - LINE SYMBOLOGY	
ALLEGHENY SENECA NATION INDIAN RESERVATION				ELOCITO EINE OTTOBOLOGY	
TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA					DRAWING NO. LEG-1
COUNTY: CATTARAUGUS REGION: 05					SHEET NO.
			•	N	WYORK Department of

TRAFFIC WORK ZONE

BARRIER. TEMPORARY

CHANNELIZING DEVICE

BARRIER, TEMPORARY, W/ WARNING

PAVEMENT MARKING REMOVAL OR

DESCRIPTION

ELECTRIC LINE, UNDERGROUND

ELECTRIC TRANSMISSION, OVERHEAD

NDUIT. UNDERGROUN

ELECTRIC LINE. HANGING

ELECTRIC, SUBSTATIONS

FIBER OPTIC, HANGING

GAS. UNDERGROUND

GAS, HANGING

GAS, OVERHEAD

FIBER OPTIC, OVERHEAD

INFORM CABLE, UNDERGROUND

INFORM CABLE, HANGING

OIL LINE, UNDERGROUND

POLE, BRACE, PUSH BRACE

SANITARY SEWER, HANGING

TELEPHONE, UNDERGROUND

TELEPHONE. HANGING

TELEPHONE, OVERHEAD

CABLE TV. HANGING

CABLE TV, OVERHEAD

INKNOWN, HANGING

UNKNOWN. OVERHEAD

WATER LINE, HANGING

WATER LINE, OVERHEAD

WATER LINE, UNDERGROUND

Transportation

UNKNOWN. UNDERGROUND

CABLE TV, UNDERGROUND

SANITARY SEWER, UNDERGROUND

SANITARY SEWER, FORCE MAIN, UGN

SANITARY SEWER, FORCE MAIN, HAI

OIL LINE, HANGING

POLE, GUY WIR

FIBER OPTIC, UNDERGROUND

ELECTRIC LINE. OVERHEAD

CONDUIT, HANGING

CONDUIT, OVERHEAD

TW7RT P

TWZBTWL.

TWZCD_P

TWZPMRC_P

UTILITIES

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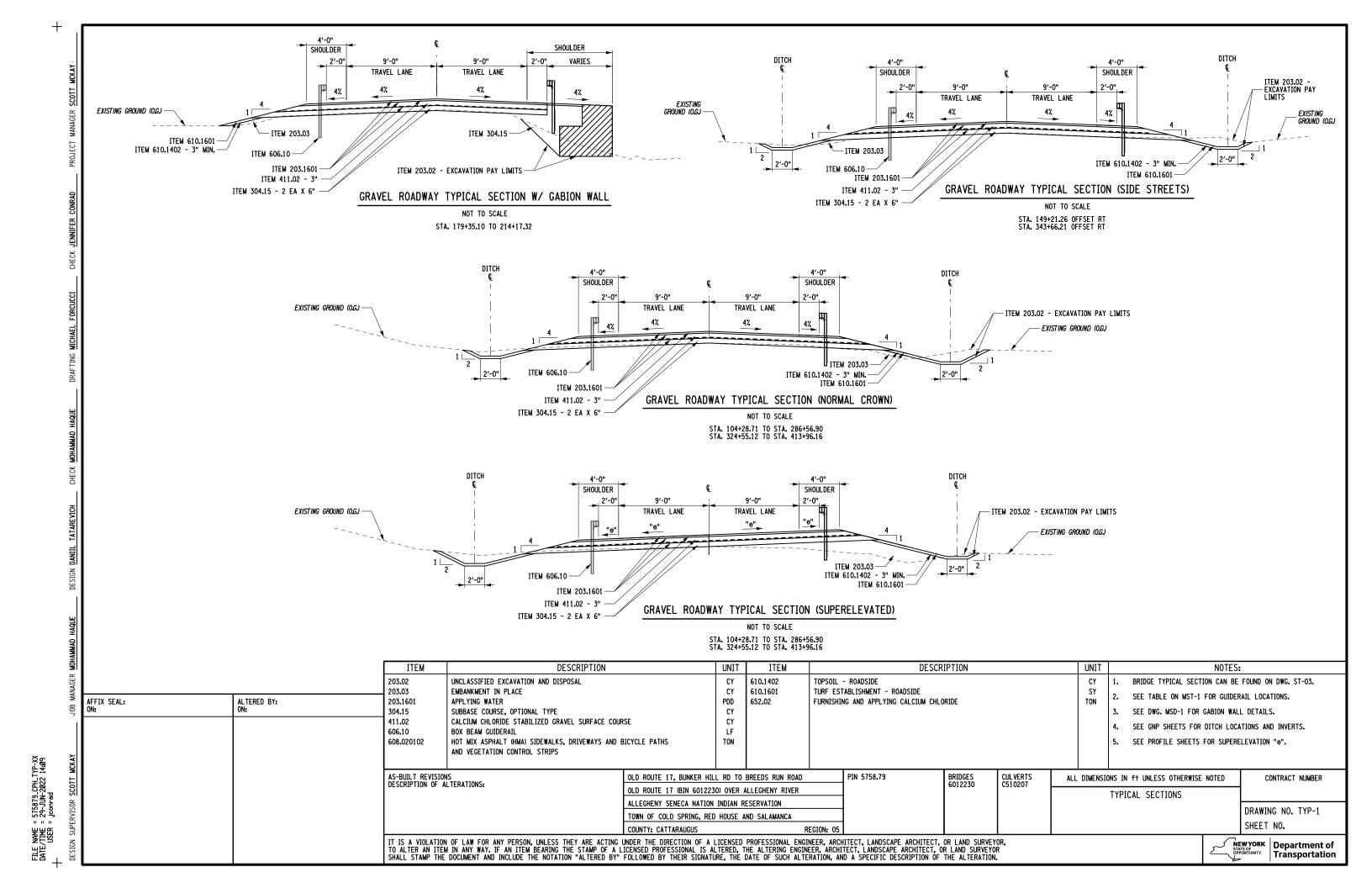
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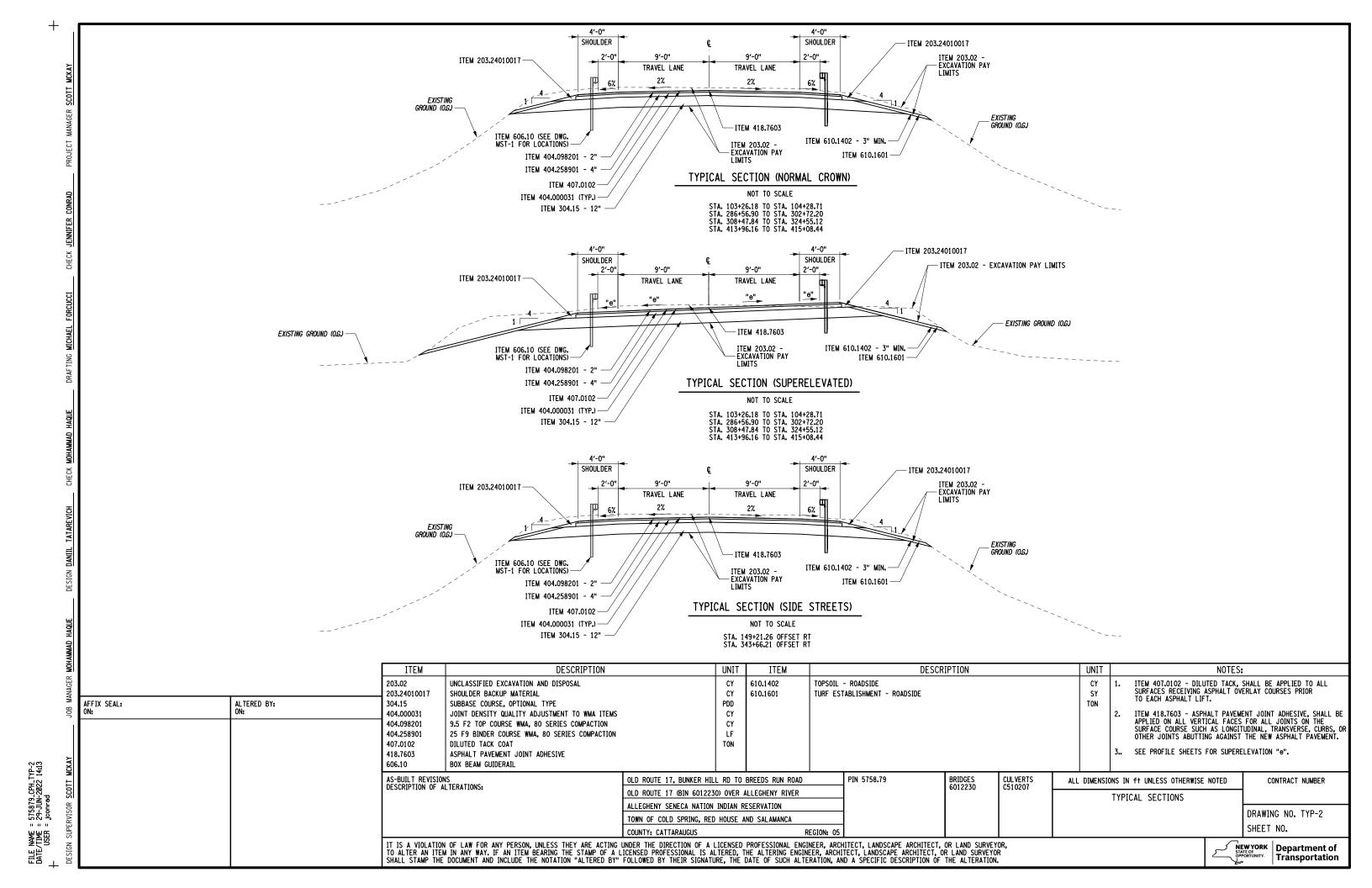
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	1.	ALIGNMENT	_		DRAINAGE	_	T	ITS	1	1	ROW MAPPING		T 1	SIGNS			1	UTILITIES
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	_	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION		CELL	 	DESCRIPTION
₩	ACC	CENTER OF CURVATURE	+	DINV	INVERT	⊕	IANT P	ANTENNAS	⊕	MDL1P	DEED LINE, TYPE 1	+	S	SINGLE POST		Ø	UEB	ELECTRIC, BOX
+	ACOGO	C0G0		DS	STRUCTURE, RECTANGULAR		IASCTS	ACCOU. SPEED/COUNT SNSR.S	Ø	MDL2P	DEED LINE, TYPE 2	P	S_P	SINGLE POST, PR		E	UEM	ELECTRIC, METER
<u> </u>	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	P	ICABPAD	CABINET & PAD	3	MDL3P	DEED LINE, TYPE 3	Ħ	SB_P	BACK TO BACK, F	PROPOSED	Ø	UEMH	ELECTRIC, MANHOLE
	ADPI_P	DETOUR, POINT OF INTERSECT.		DSM	STRUCTURE, MANHOLE		ICCTV	CCTV SITE	⊕	MDL4P	DEED LINE, TYPE 4		SDEL	DELINEATORS		<u>⊕</u>	UEPT	ELECTRIC, POLE, TR
0	ADPL_P	DETOUR, POINT ON LINE	1100		STRUCTURE, MANHOLE,)CDPD(ICDPD	CDPD TRANSCEIVER	9	MDL5P	DEED LINE, TYPE 5	₩	SPM	PARKING METER		G	UGM	GAS, METER
0	AEQN	EQUATION		DSMTXX_P	TYPE "XX" "XX" = 48, 60, 72, 96	*	ICELLT	CELL PHONE TOWER	0	MEEP	EASEMENT, EXISTING	REM	SRM	REFERENCE MARK	ERS	©	UGMH	GAS, MANHOLE
A	AEQNAHI	EQUATION AHEAD		DSR	STRUCTURE, ROUND		ICJB	CONDUIT JACK OR BORING	(A)	MEPAP_P	EASEMENT, PERM., APPROX.		SRSC3	SHLD, CTY, 123	DIG.	-\$ −	UGLM	GAS, LINE MARKER
B	AEQNBK	EQUATION BACK	1,		STRUCTURE, RECT., WITH CURB		ICNTLCAB	CONTROLLER CABINET	0	MEPP_P	EASEMENT, PERM., BACK LINE		SRSC4	SHLD, CTY, 4 DI	G.	FP	UGP	GAS/FUEL PUMP
0	AEVT	EVENT STATION		DST"X"CB F	TYPE "X" "X" = F, G, N, O, P, R		ICPB	COMMUNICATION PULL BOX	0	MEPSP_P	EASEMENT, PERM., SHAPE		SRSCT2	SHLD, CTY TOUR,	, 1-2 DIG.	₩	UGV	GAS, VALVE
0	APC	POINT OF CURVATURE	- T	!	STRUCTURE, RECT., TYPE "X"	⊗	ICTD	CONDUIT TURNING DOWN	♦	MFAP_P	FEE ACQUISITION, APPROX.		SRSCT4	SHLD, CTY TOUR,	, 3-4 DIG.	∞	UGVT	GAS, VENT
0	APCC	POINT OF COMPOUND CURVATURE	<u> 10000 </u>	DST"X" P	"X" = I, K, L, M, O, P, U	<u></u>	ICTU	CONDUIT TURNING UP	♦	MFP_P	FEE ACQUISITION, BACK LINE		SRSI	SHLD, INTERSTAT	re	⊙ю	ULP	LIGHTING, POLE
\triangle	API	POINT OF INTERSECTION		EN'	VIRONMENTAL)¢́(ICVTRT	COMM. VEH. ROAD TRANSCEIVER	•	MFSP_P	FEE ACQUISITION, SHAPE	Ü	SRSN2	SHLD, NATIONAL,	2 DIG.	Ф	ULPM	LIGHTING, POLE, ME
۵	APOB	POINT OF BEGINNING	$\vdash \neg$	1	T	+	IDEFAULT	DEFAULT	X	MHBAP	HIGHWAY BNDRY., APPROX.		SRSN3	SHLD, NATIONAL,	3 DIG.	@	ULPP	LIGHTING, POLE, PE
0	APOC	POINT OF CURVATURE	CULV	EI0P_P	STR., INLET, OUTLET PROT.	EZ	IEZR	E-ZPASS READER	•	МНВСР	HISTORICAL, BLDG. CORNERS	0	SRSS2	SHLD, STATE, 2	DIG.		UMFC	MISC. FILLER CAP
Δ	APOE	POINT OF END	(GB)	EIPGB_P	STR., INLET PROT., GRAVEL BAG	EZ-T	IEZTR	TRANSMITTAL READER	*	MHBP	HIGHWAY BNDRY, PT.	0	SRSS3	SHLD, STATE, 3	DIG.		UOLM	OIL, LINE MARKER
0	APOL	POINT ON LINE				☐ XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET	⊚	MJCP	PT., JURIS. CITY	\Diamond	SRSS4	SHLD, STATE, 4	DIG.	-0-	UP	POLE, WITH UTILITY
0	APOS	POINT ON SPIRAL	(FL)	EIPEFL_P	STR., INLET PROT., FILTER LOG	0	IFUSSPL	FUSION SPLICE	•	мрвс	PT., BUILDING CORNER		TRAF	FIC CONTRO	ı	0	UPD	POLE, DEAD (NO UT
0	APOT	POINT ON TANGENT	(PDER)	EIPP_P	STR., INLET PROT., PREFAB.	99	IHARADV	HAR ADVISORY SIGN	0	MPCC	PT., CROSS CUT					ф	UPL	POLE, WITH LIGHT
Δ	APOVC	POINT ON VERTICAL CURVE	(PRFB)		orne, meer more, mer no	一一	IHARST	HAR SITE	*	MPDH	PT., DRILL HOLE		TCBJ	BOX, JUNCTION		<u> </u>	USMH	SANITARY SEWER M
Δ	APOVT	POINT ON VERTICAL TANGENT	SF	EIPSF_P	STR., INLET PROT., SILT FENCE	\boxtimes	ILC	LOAD CENTER	*	MPF	PT., FENCE LOCATION		TCBP	BOX, PULL BOX	-	P	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE		ERCB	RISER, CONCRETE BOX		IMECSPL	MECHANICAL SPLICE	0	MPIP	PT., IRON PIPE		TCBS	BOX, SPLICE	-	◆	UTLM	TELEPHONE, LINE N
0	APT	POINT OF TANGENCY		ENCB	RISER, CONCRETE BOX	PM))	IMSCS	PORT. SPEED & COUNT SENSOR	0	MPIR	PT., IRON ROD		TCMC	MICROCOMPUTER	CABINET	(T)	UTMH	TELEPHONE, MANHOL
(9)	APVC	POINT OF VERTICAL CURVATURE		ETRS_P	TRAP, SEDIMENT	(CM)	IMSCTS	MICRO SPEED & COUNT SENSOR		MPM	PT., MONUMENT	<u></u>	TCPP	PED POLE		-\$-	UTVLM	CABLE TV, LINE MA
Δ	APVCC	POINT OF VERT. CMPND CURVE	+	EWFG	WETLAND FLAG		IMT	MICROWAVE TRANSCEIVER		МРММ	PT., MONUMENT, MISC.		TCSH	SIGNAL HEADS		0	UTVPB	CABLE TV, PULL BO
A	APVI	POINT OF VERT. INTERSECTION	1	GE	OTECHNICAL	OI VMS I	IOVHVMS	PERM. OVERHEAD VMS	Ø	MPN	PT., NAIL	· ·	TCSP	SIGNAL POLE			UUB	UNKNOWN. BOX
۵	APVRC	POINT OF VERT. REVERSE CURVE	•	GDH	DRILL HOLE	PAD)	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	***	MPRS	PT., RAILROAD SPIKE		TRAFF	TIC WORK ZO	NE	<u> </u>	UUJB	UNKNOWN, JUNCTION
(9)	APVT	POINT OF VERTICAL TANGENCY		1	ANDCCADE		IPEDS	PEDESTRIAN SIGNAL HEAD	₩	MPSP	PT., SPIKE	.:	TWZAP_P	ARROW PANEL		⊗	UUMH	UNKNOWN. MANHOLE
0	ASC	SPIRAL TO CURVE			ANDSCAPE	\Diamond	IPSS	PAVEMENT SURFACE SENSOR	*	MPST	PT., STAKE		TWZAPC_P	ARROW PANEL, C	AUTION MODE		UUPB	UNKNOWN, PULL BOX
	ASPI	SPIRAL POINT OF INTERSECTION	+	LELS	ELEVATION, SPOT	PVMS	IPVMS	PERM. VMS	8	MPTW	PT., TREE W/ WIRE		TWZAPT_P	ARROW PANEL, T	RAILER OR SUPPORT		UUVL	UNKNOWN, VALVE
0	ASTS	SPIRAL TO SPIRAL		LFP	FLAG POLE	RM	IRM	RAMP METER	+	MPWL	PT., WALL LOCATION		TWZBCD_P	BARRICADE (TYPE	E III)	00	UUVT	UNKNOWN. VENT
\otimes	AST	SPIRAL TO TANGENT		LMB	MAILBOX	RWIS	IRWIS	RDWY WEATHER INFO, SENSOR	<u> </u>	D	OW ACQUICITION	\neg \vdash \vdash	TWZCMS_P	CHANGEABLE MES	SSAGE SIGN (PVMS)	0	UUW	UNKNOWN, WELL
\otimes	ATS	TANGENT TO SPIRAL		LPB	PAPER BOX	<u> </u>	ISP	SOLAR PANEL		R	OW ACQUISITION		TWZFLG_P	FLAGGER		α	UWFH	WATER, FIRE HYDRA
<u> </u>	AVEVT	VERTICAL EVENT POINT	0	LPST	POST, SINGLE	- 385	ISST	SPREAD SPECT. TRANSCEIVER	(M)	MFS_P_T	FEE ACQUISITION	<u>-</u>	TWZFT_P	FLAG TREE			UWM	WATER, METER
·	AVHIGH	VERTICAL HIGH POINT	@	LRB	ROCK, BOULDER		ITDB	TELEPHONE DEMARCATION BLK	(M1)	†			TWZIA_P	IMPACT ATTENUA	TOR /	<u> </u>	UWMH	WATER, MANHOLE
0	AVLOW	VERTICAL LOW POINT	米	LSHC	SHRUB, CONIFEROUS	O _{TP}	ITP	SUBSURFACE TEMP. PROBE	PE	MEPS_P_	T EASEMENT, PERMANENT	-	TWZLUM_P	CRASH CUSHION LUMINAIRE (TEMP		 -[]-	UWV	WATER, VALVE
			<u>Q</u>	LSHD	SHRUB, DECIDUOUS	→ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IVTRT	VEHICLE TO RDWY TRANSCEIVER		METS_P_	T EASEMENT, TEMPORARY	=>	TWZSDT_P	SYMBOL, DIRECTI		<u> </u>	UWW	WATER, WELL
		BRIDGE	*	LTC	TREE, CONIFEROUS	WW	IWIMD	WEIGHT IN MOTION DETECTOR	WI)	METC 5	T OCCUPANCY TEMPORARY		TWZSDTD_F	SYMBOL, DIRECTI	ION OF TEMPORARY			,
	BSC	BRIDGE, SCUPPER	£	LTD	TREE, DECIDUOUS)WVR(IWVR	WIRELESS VIDEO REPEATER	T0	ME 13_P_	T OCCUPANCY, TEMPORARY		TWZSGN_P	TRAFFIC DETOUR SIGN (TEMPORAR)				
		CONTROL	♡	LTS	TREE, STUMP	(V)-(IWVRC	WIRELESS VIDEO RECEIVER	H WH		FEE ACQUISITION W/O ACCESS	0-	TWZSIG_P	SIGNAL, TRAFFIC	OR PEDESTRIAN			
	СВР	BASELINE, POINT	A	LTW P	TREE, WELL OR WALL	- XV	IWVTT	WIRELESS VIDEO TRANSMITTER	FEE WO/	<u> </u>	DOADWAY		TWZWL_P	(TEMPORARY) WARNING LIGHT				
·	CBPOL	BASELINE, POINT ON LINE	+	LUKP	UNKNOWN POINT	<u> </u>	1 *****		<u> </u>	1	ROADWAY		TWZWV_P	WORK VEHICLE				
<u> </u>	CBSP	BASELINE, SPUR POINT	1. THE	LEGEND IL	LUSTRATES MAPPING FEATURES (EX	ISTING A	ND PROPOSED).	•	0	RES P	ELEVATION, SPOT			WORK VEHICLE W				
₹	CBTP	BASELINE, TIE POINT	2. FEA	TURES ARE	SHOWN AS EITHER LINEAR (ROADWA	Y_GUIDEI	RAIL, ROADWAY	SIDEWALK,		RGA	GUIDE RAIL, ANCHOR	اللبلط	1	MOUNTED ATTENL	JA I OR			
	CPBM	BENCHMARK	1	•	ETC.) OR POINT (SIGN, UTILITY PO	•			0	RGP	GUIDE POST, SINGLE							
•	СРВМ	POINT, HORIZ, PHOTOGRAMMETRY			N ON THE LEGEND AS EXISTING FE PROPOSED FEATURES.	LATURES	ALSU HAVE						DDID 055	AULUS STATE				
<u> </u>		POINT, HORIZ. PHOTOGRAMMETRY POINT, SURVEY MARKER, PERM.	4. PRO	POSED FEAT	URE SYMBOLOGY IS IDENTICAL TO	EXISTING	FEATURE SYN	MBOLOGY OLD ROUTE 17, BUNKER H					BRIDGES 6012230	CULVERTS C510207	ALL DIMENSIONS I			
	CPSM		(0.0	LUDING LINE 015 in ON B	WEIGHT. LINE WEIGHT FOR PROP SIZE DRAWINGS).	OSED FE	ATURES IS TH	ICKER OLD ROUTE 17 (BIN 60122 ALLEGHENY SENECA NATIO							LEGEND -	- POIN	T SYMBOLOG	
+	CPSV	POINT, VERT., PHOTOGRAMMETRY	J 5. MAF	PING FEATU	RES NOT INCLUDED ON THE LEGEND	SHEET	DO NOT HAVE	A UNIQUE TOWN OF COLD SPRING, RE										DRAWI
					CH AS THE PAVEMENT EDGE, PAVEN ELED ON THE PLANS.	MENT EDG	E OF TRAVEL	WAY) AND COUNTY: CATTARAUGUS			REGION: 05							SHEET
			6. FEA	TURES SHOW	N AT THE HEAVIER WEIGHT ARE PR	ROPOSED	ONLY AND DO	NOT HAVE										NEW YORK STATE OF
			COF	RRESPONDING	EXISTING FEATURES.													STATE OF OPPORTUNITY.





GENERAL NOTES

- THE RESTORATION OF DISTURBED AREAS WILL BE PERFORMED AS SPECIFIED UNDER SECTION 107-08 OF THE NYSDOT STANDARD SPECIFICATIONS, PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE. 1.
- ITEM 610.1601, TURF ESTABLISHING ROADSIDE AND ITEM 610.1602, TURF THEM GLOLIGOL, TORE ESTABLISHING ROADSIDE AND HEM GLOLIGOZ, TORE ESTABLISHMENT - LAWNS, SHALL BE PAID FOR DISTURBED AREAS AS SHOWN IN THE CONTRACT PLANS AND/OR TABLES. ANY DISTURBANCE OUTSIDE THESE AREAS, AS DETERMINED BY THE EIC, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE RESTORED AS PER SECTION 107-08 OF THE NYSDOT STANDARD SPECIFICATIONS, PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.
- THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON PREVIOUS CONTRACTS AND FIELD INSPECTIONS. THEREFORE, THE EXACT EXTENT OF PROPOSED WORK MAY NOT ALWAYS BE ACCURATELY DEPICTED. THE CONTRACTOR SHOULD BE AWARE THAT ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO CONSTRUCTION DETAILS AND QUANTITIES.
- THE COLD SPRING CREEK BRIDGE MAY BE CLOSED DURING CONSTRUCTION AND THERE WILL BE A DETOUR. THE BREEDS RUN BRIDGE MAY HAVE A TEMPORARY STRUCTURE IN PLACE DURING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE

PAVING

- ALL PAYING OR SHOULDER MATERIAL SHALL BE INSTALLED IN THE DIRECTION OF FLOW OF TRAFFIC. TRUCKS HAULING MATERIAL FOR A GIVEN OPERATION SHALL PROCEED TO THE 1. PLACEMENT EQUIPMENT WITH THE FLOW OF TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LAYOUT NECESSARY TO PRESERVE, MAINTAIN AND REESTABLISH THE EXISTING PAVEMENT CROWN POINTS, LANE WIDTHS, CROSS SLOPES, TRANSITIONS AND SUPER ELEVATIONS AS DESCRIBED IN THE CONTRACT DOCUMENTS AND/OR A.O.B.E. THE COST FOR THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR
- ASPHALT JOINTS SHALL NOT BE ALLOWED IN ANY WHEEL PATH. THROUGHOUT THE PAVEMENT LENGTH, THE TOP COURSE SHALL BE MONOLITHICALLY PLACED OVER THE TRAVEL LANE AND SHOULDER OR CURB OFFSET UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- PAYING OPERATIONS AT THE END OF THE WORKDAY SHALL BE FROM EDGE OF SHOULDER TO EDGE OF SHOULDER LEAVING NO RAISED LONGITUDINAL JOINTS.

GENERAL NOTES WORK ZONE TRAFFIC CONTROL (WZTC)

- WZTC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619-1 OF THE NYSDOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE NYS SUPPLEMENT TO THE MUTCD, AND ANY PROVISIONS CONTAINED IN THE PLANS
- THE EDGE OF PAVEMENT AND THE BACK EDGE OF SHOULDER SHOULD BE DELINEATED WITH
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND BUSINESS DRIVEWAYS AT ALL TIMES DURING THE DURATION OF THE CONTRACT.
- THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER. HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF
- VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAYEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC WITHIN
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT OVERNIGHT WHERE IT IS DEEMED A SAFETY HAZARD TO TRAFFIC.
- ALL TRAVEL SHALL BE CLEARED OF ALL OBSTRUCTIONS, INCLUDING TRAFFIC CONTROL DEVICES, AND MADE SAFE FOR TRAVEL AND RETURNED TO SERVICE AT THE CONCLUSION OF
- WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
- SIGNS NOT APPLICABLE AFTER WORKING HOURS SHALL BE COVERED OR REMOVED FROM
- SIGN LOCATIONS ARE APPROXIMATE; EXACT LOCATIONS SHALL BE DETERMINED BY THE
- THE FLAGGER STATION AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM
- "FLAGGER" SIGNS SHALL BE USED WHENEYER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
- 14. ALL FLAG TREES SHALL HAVE A MINIMUM OF THREE (3) FLAGS.

ANTICIPATED SEQUENCE OF CONSTRUCTION (INVOLVING IN-WATER WORK)

- TAKE PRE-CONSTRUCTION PHOTOGRAPHS OF RIVERBANKS AND ANY FLOODPLAINS.
- INSTALL TEMPORARY SEDIMENT CONTROL FILTER LOGS, SILT FENCING AND OTHER EROSION AND SEDIMENT CONTROLS AS NEEDED.
- CLEARING AND GRUBBING OF THE AREA NORTH OF BOTH THE EAST AND WEST BRIDGE
- INSTALL A TEMPORARY CONSTRUCTION ROADWAY ON THE WEST BANK TO THE NORTH OF THE BRIDGE. THE TEMPORARY ROADWAY WILL BE CONSTRUCTED USING 6"-12" OF SUBBASE OVER GEOTEXTILE FABRIC.
- INSTALL THE PHASE 1 CAUSEWAY, PLACE THE PIPES AND MEDIUM STONE FILL FOR THE CAUSEWAY, PLACE GEOTEXTILE FABRIC OVER THE HEAVY STONE FILL AND PLACE A MINIMUM OF 6" OF SUBBASE OVER THE CAUSEWAY (THE SUBBASE MAY BE DEEPER IN SOME LOCATIONS DUE TO THE UNEVENNESS OF THE HEAVY STONE FILL).
- DEMOLISH THE WEST HALF OF THE SUPERSTRUCTURE.
- DEMOLISH THE BEGINNING ABUTMENT ACCORDING TO PLAN.
- INSTALL THE TURBIDITY CURTAIN AND COFFERDAM AROUND THE EXISTING PIER 1. INSTALLATION OF THE COFFERDAM IS ANTICIPATED TO BEGIN IN SPRING 2023. THE COFFERDAM IS ANTICIPATED TO BE IN PLACE UNTIL PIER 1 IS DEMOLISHED ACCORDING TO
- 9. INSTALL WATER DIVERSIONS AND COFFERDAMS AROUND THE BEGINNING ABUTMENT.
- CONSTRUCT THE BEGINNING ABUTMENT.
- 11. INSTALL TURBIDITY CURTAIN AND COFFERDAMS IN THE NEW PIER 1 AND 2 LOCATIONS.
- INSTALL THE DRILLED SHAFTS FOR THE PIERS WHILE COFFERDAMS ARE IN PLACE. REMOVE THE TURBIDITY CURTAINS AND COFFERDAMS SEQUENTIALLY AS THE DRILLED SHAFTS
- AFTER ABUTMENTS ARE COMPLETE, EXCAVATE AND PLACE HEAVY STONE FILL ACCORDING
- 14. CONSTRUCT THE FIRST HALF OF THE BRIDGE.
- 15. CONSTRUCT TURBIDITY CURTAIN AROUND THE PHASE 1 CAUSEWAY.
- REMOVE THE TEMPORARY CAUSEWAY AND PIPES USED TO MAINTAIN FLOW.
- REMOVE TURBIDITY CURTAIN AFTER REMOVAL OF PHASE 1 CAUSEWAY.
- INSTALL A TEMPORARY CONSTRUCTION ROADWAY ON THE EAST BANK TO THE NORTH OF THE BRIDGE. THE TEMPORARY ROADWAY WILL BE CONSTRUCTION USING 6"-12" OF SUBBASE OVER GEOTEXTILE FABRIC.
- INSTALL THE PHASE 2 CAUSEWAY. PLACE THE PIPES AND MEDIUM STONE FILL FOR THE CAUSEWAY. PLACE GEOTEXTILE FABRIC OVER THE HEAVY STONE FILL AND PLACE A MINIMUM OF 6" OF SUBBASE OVER THE CAUSEWAY (THE SUBBASE MAY BE DEEPER IN SOME LOCATIONS DUE TO THE UNEVENNESS OF THE HEAVY STONE FILL).
- 20. DEMOLISH THE EAST HALF OF THE SUPERSTRUCTURE.
- DEMOLISH THE ENDING ABUTMENT ACCORDING TO PLAN.
- INSTALL THE TURBIDITY CURTAINS AND COFFERDAMS SEQUENTIALLY AROUND THE EXISTING PIERS 2 AND 3. INSTALLATION OF THE COFFERDAMS IS ANTICIPATED TO BEGIN IN SPRING 2024. THE COFFERDAMS ARE ANTICIPATED TO BE IN PLACE UNTIL PIERS 2 AND 3 ARE DEMOLISHED ACCORDING TO PLAN.
- 23. INSTALL WATER DIVERSIONS AND COFFERDAMS AROUND ENDING ABUTMENT.
- 24. CONSTRUCT THE ENDING ABUTMENT.
- 25. INSTALL TURBIDITY CURTAINS AND COFFERDAMS IN THE NEW PIER 3 AND 4 LOCATIONS.
- INSTALL THE DRILLED SHAFTS FOR THE PIERS WHILE COFFERDAMS ARE IN PLACE REMOVE THE TURBIDITY CURTAINS AND COFFERDAMS SEQUENTIALLY AS THE DRILLED SHAFTS

NEW YORK Department of Transportation

- AFTER ENDING ABUTMENT IS COMPLETE, EXCAVATE AND PLACE HEAVY STONE FILL ACCORDING TO PLAN AROUND THE BEGINNING.
- CONSTRUCT THE SECOND HALF OF THE BRIDGE.
- CONSTRUCT THE TURBIDITY CURTAIN AROUND PHASE 2 CAUSEWAY.
- REMOVE THE TEMPORARY CAUSEWAY AND PIPES USED TO MAINTAIN FLOW.
- REMOVE TURBIDITY CURTAIN AFTER REMOVAL OF PHASE 2 CAUSEWAY.
- RESTORE DISTURBED AREAS WITH TOPSOIL AND RE-ESTABLISH TURF.
- REMOVE REMAINING TEMPORARY SEDIMENT CONTROL MEASURES.

L RD TO BREEDS RUN ROAD	PIN 5758.79	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE	NOTED	CONTRACT NUMBER
OVER ALLEGHENY RIVER		6012230	C510207	GENERAL NOTES		
INDIAN RESERVATION				CENERAL NOTES		DD I WITH A NO. ON I I
HOUSE AND SALAMANCA						DRAWING NO. GNN-1
REGION: 05						SHEET NO.

AFFIX SEAL: ALTERED BY:

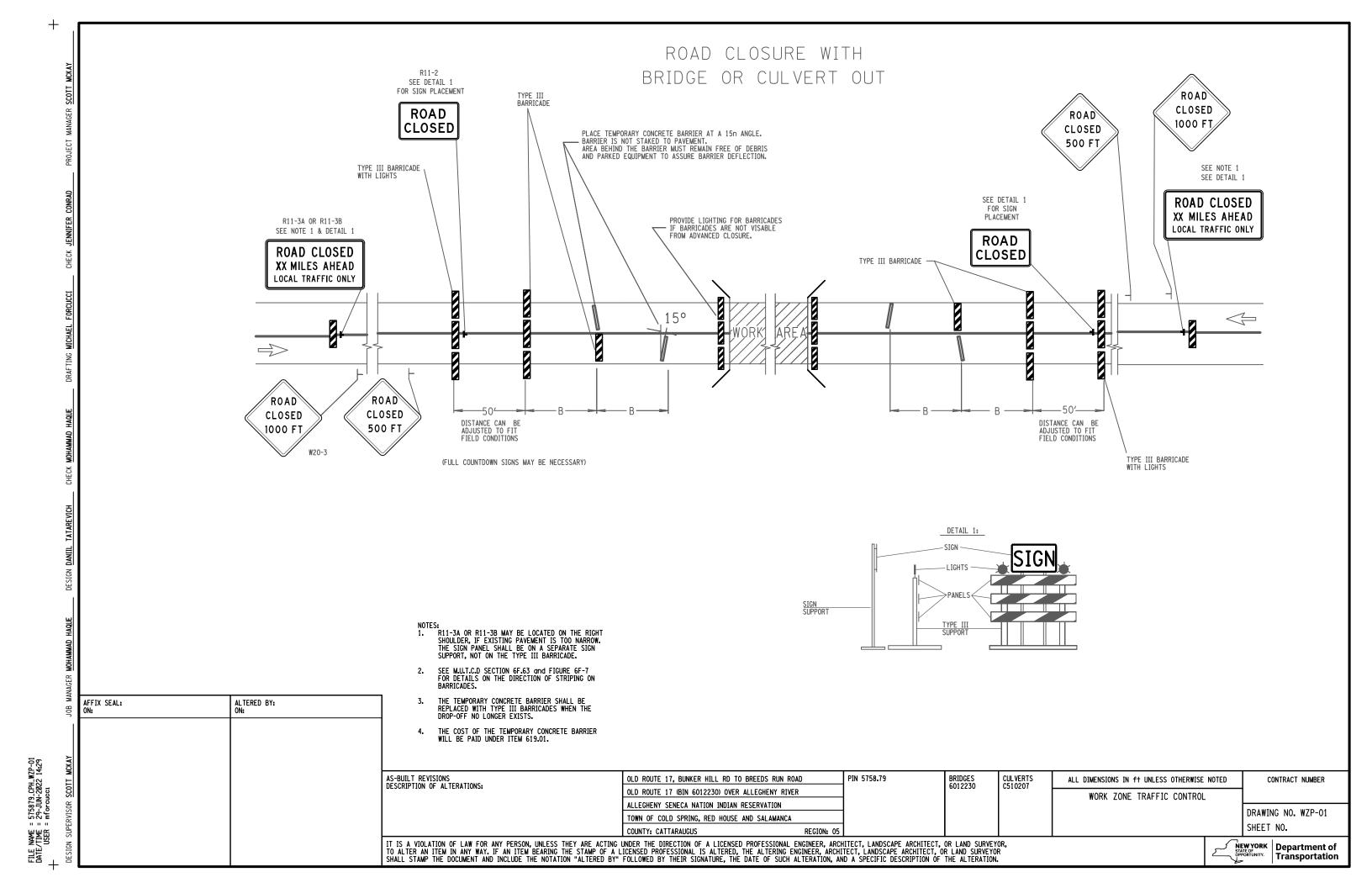
AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

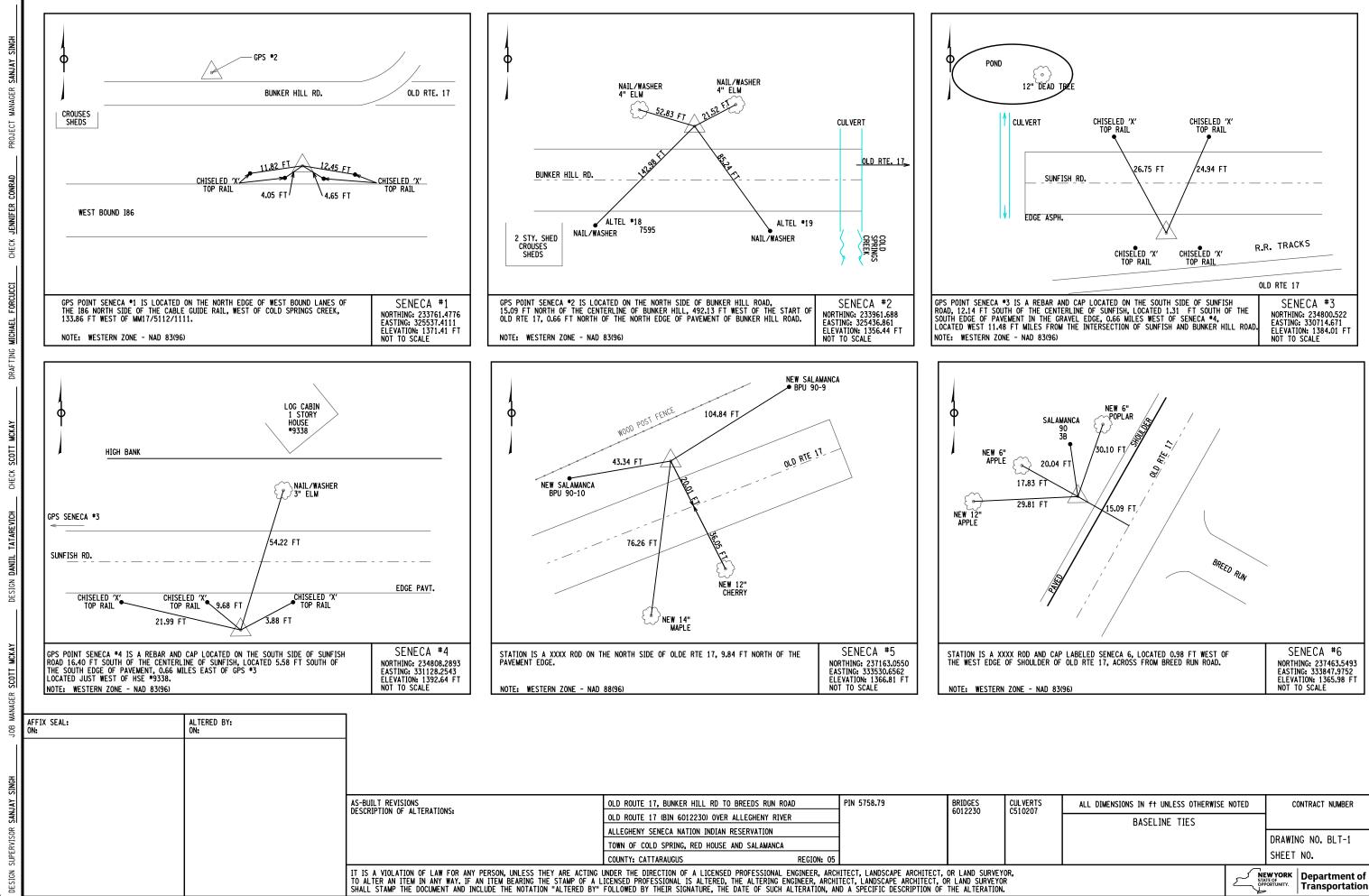
OLD ROUTE 17, BUNKER HILL OLD ROUTE 17 (BIN 6012230) ALLEGHENY SENECA NATION

TOWN OF COLD SPRING, RED

COUNTY: CATTARAUGUS IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

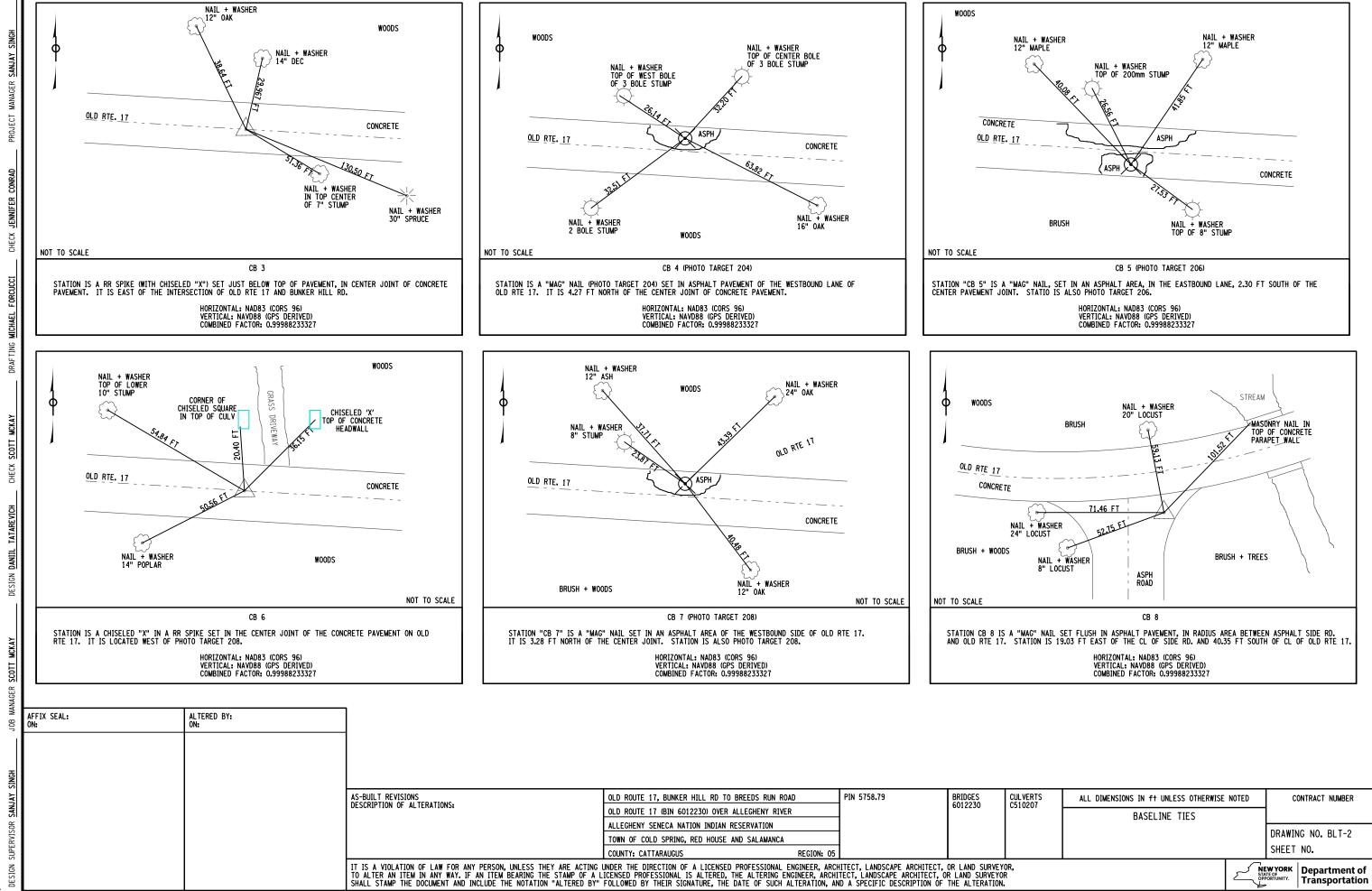




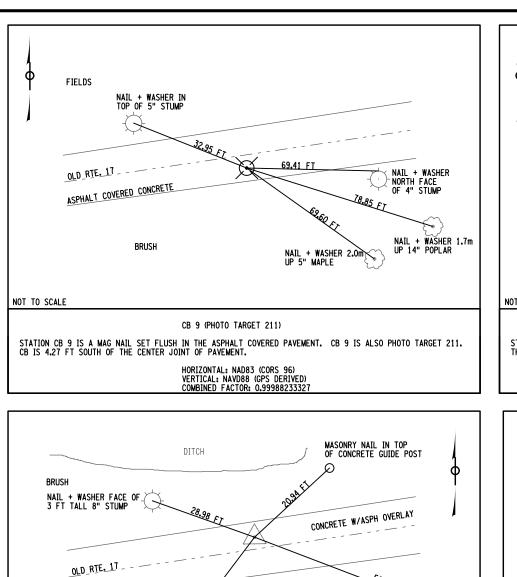


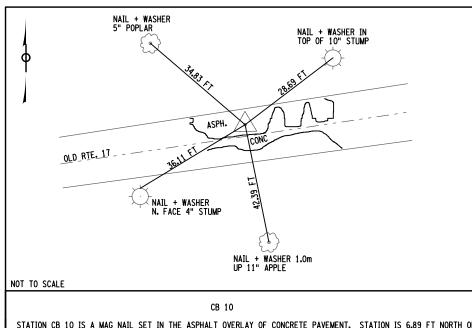
Transportation

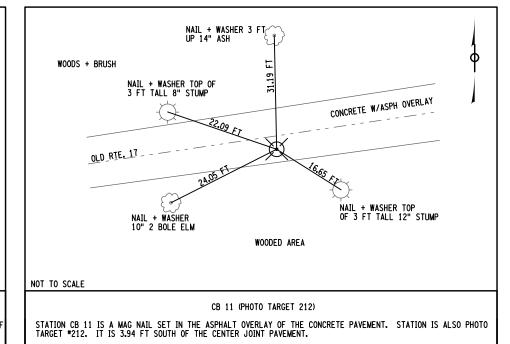
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ILE NAME = 578879.CPH_BLT.2.DGN ATE/TIME = 29-JUN-2022 14:01 USER = Joonfad

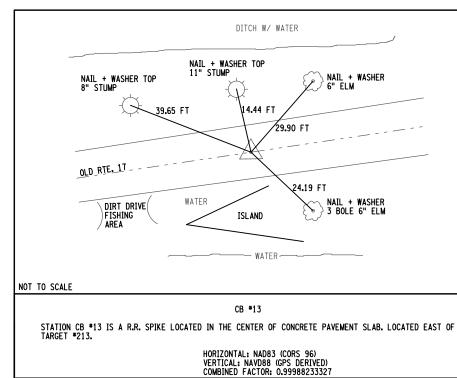


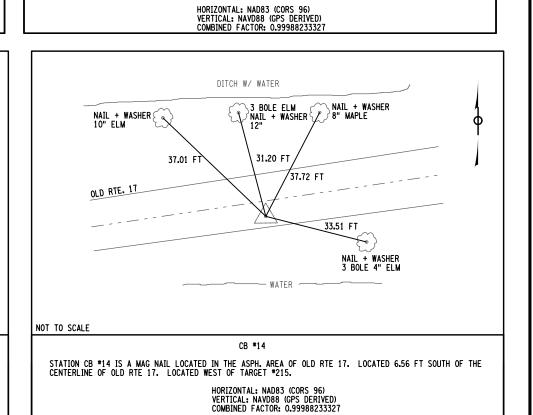


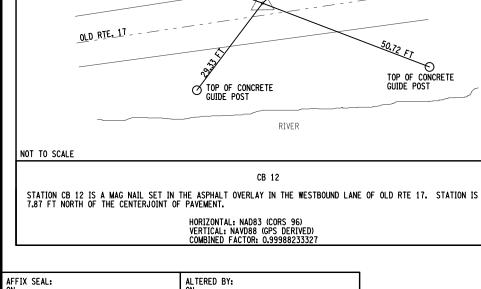


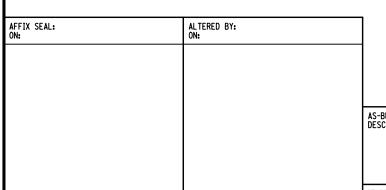
STATION CB 10 IS A MAG NAIL SET IN THE ASPHALT OVERLAY OF CONCRETE PAVEMENT. STATION IS 6.89 FT NORTH CTHE CENTER JOINT OF PAVEMENT. STATION IS WEST OF PHOTO TARGET 212.

HORIZONTAL: NADB3 (CORS 96)
VERTICAL: NAVDB8 (CPS DERIVED)
COMBINED FACTOR: 0.99988233327



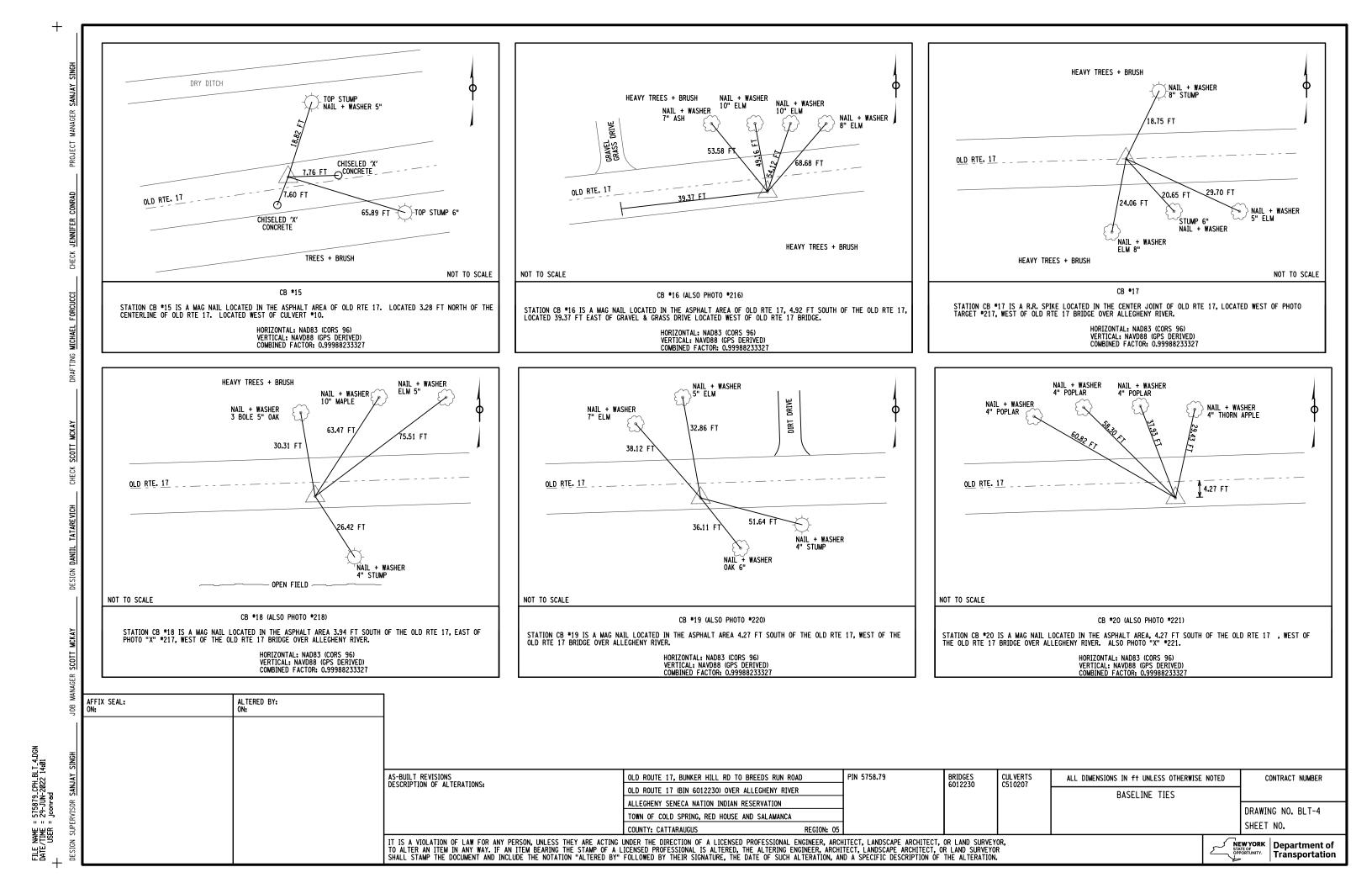


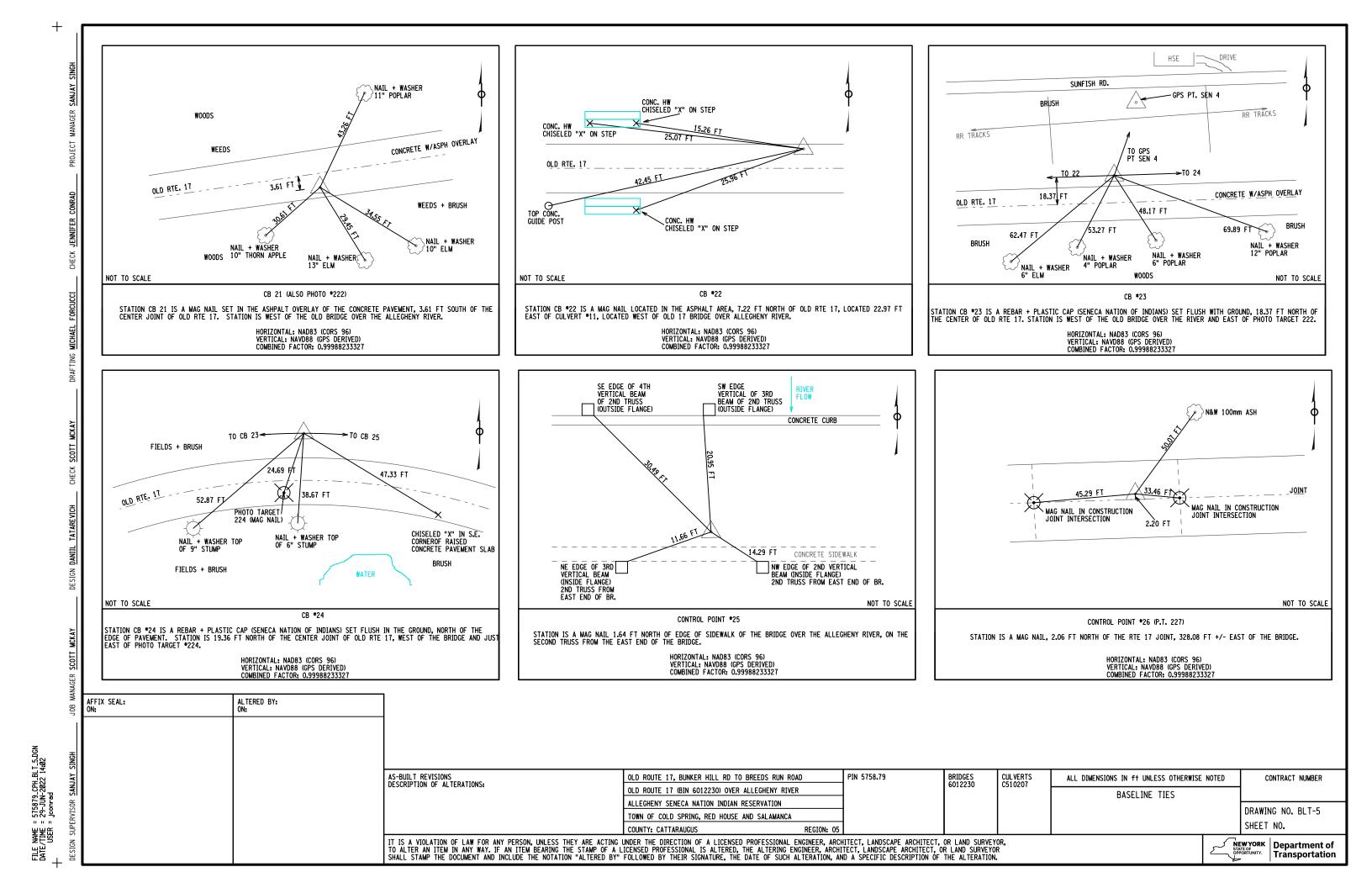


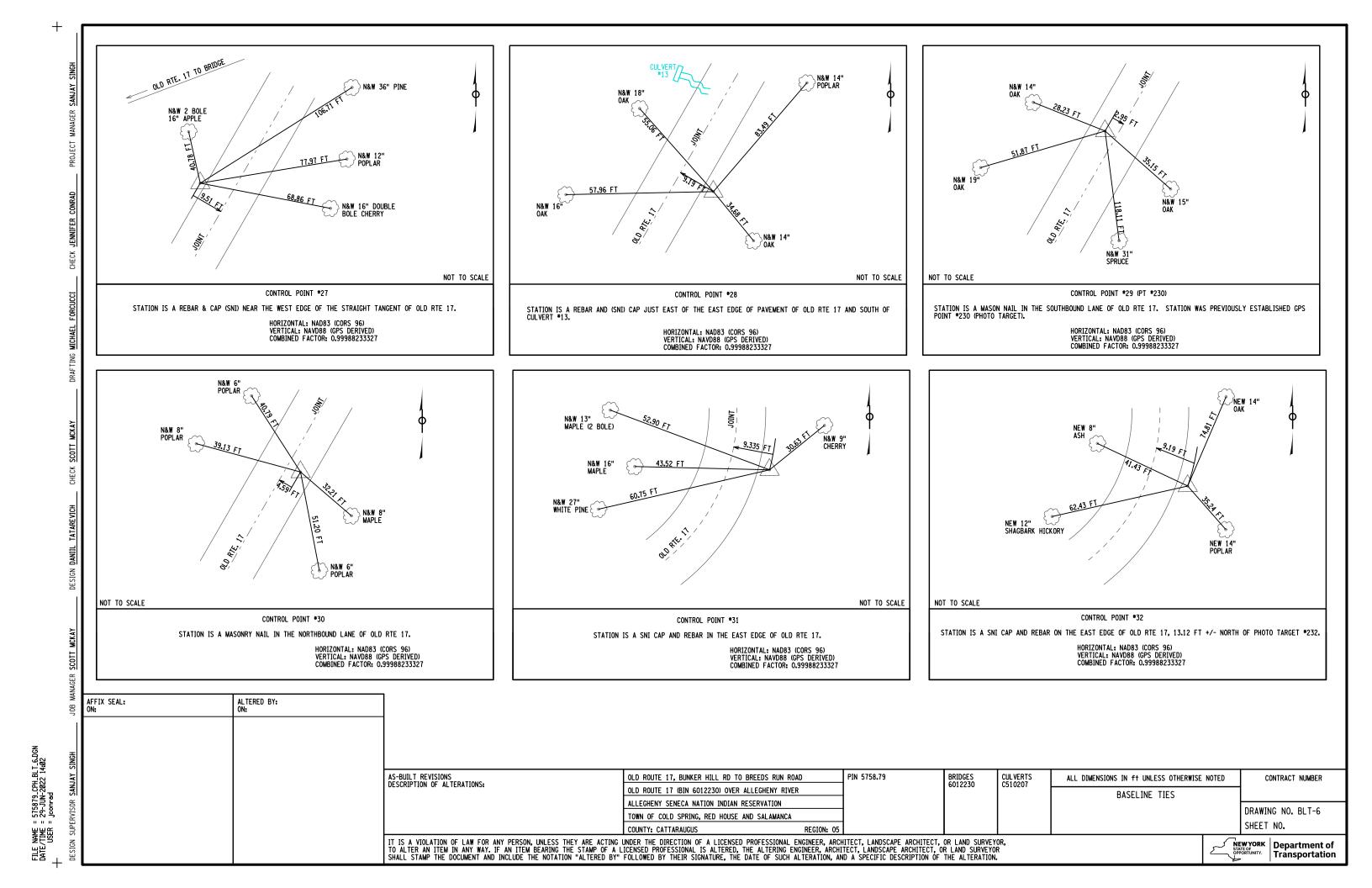


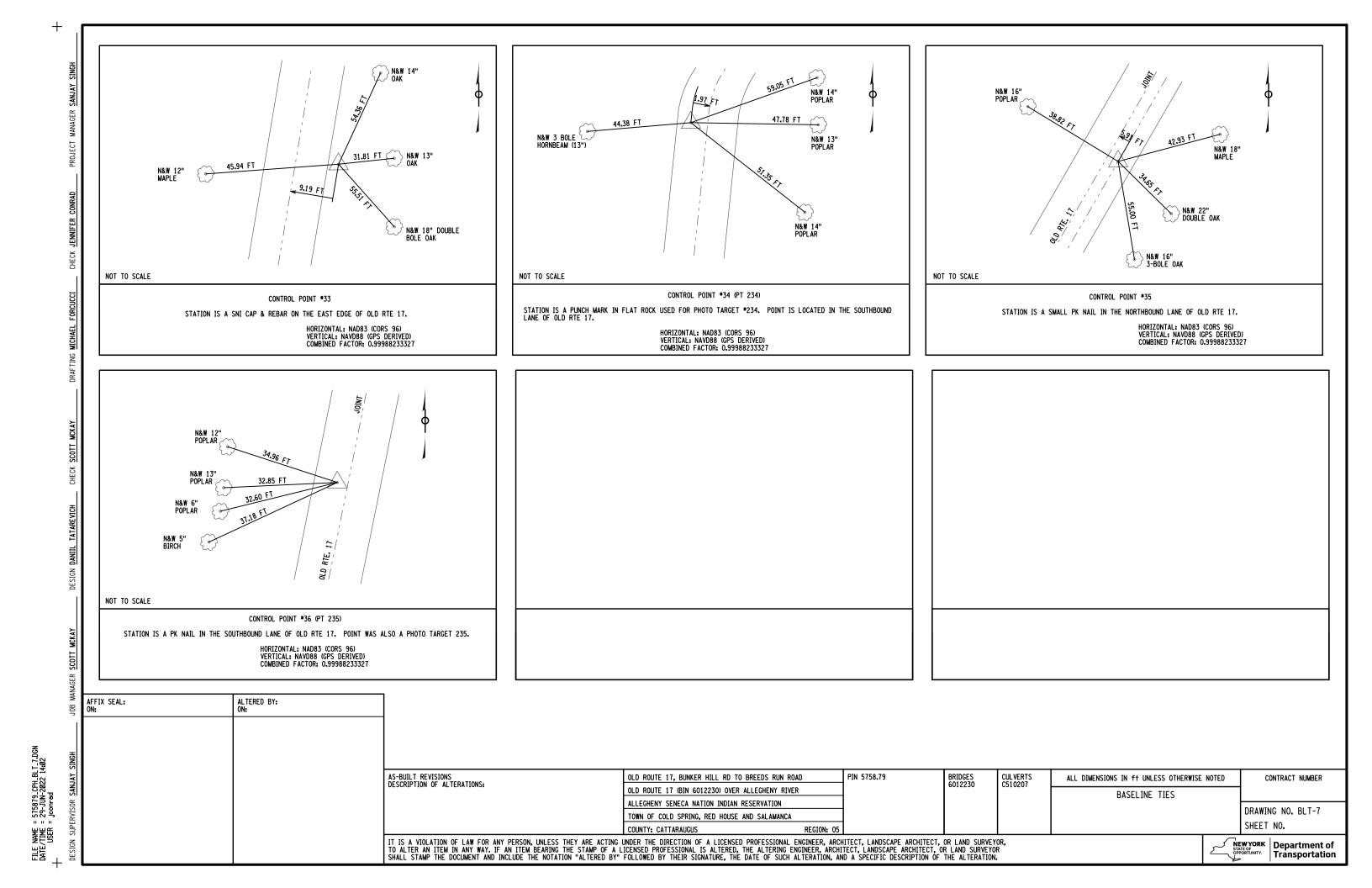
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CULVERTS C510207 PIN 5758.79 OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER BASELINE TIES ALLEGHENY SENECA NATION INDIAN RESERVATION DRAWING NO. BLT-3 TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA SHEET NO. COUNTY: CATTARAUGUS REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK STATE OF OPPORTUNITY. Department of Transportation

FILE NAME = 575879_CPH_BLT_3.DGN DATE/TIME = 29-JUN-2022_14:01 H USER = Joonrad









GUIDERAIL INSTALLATION TABLE

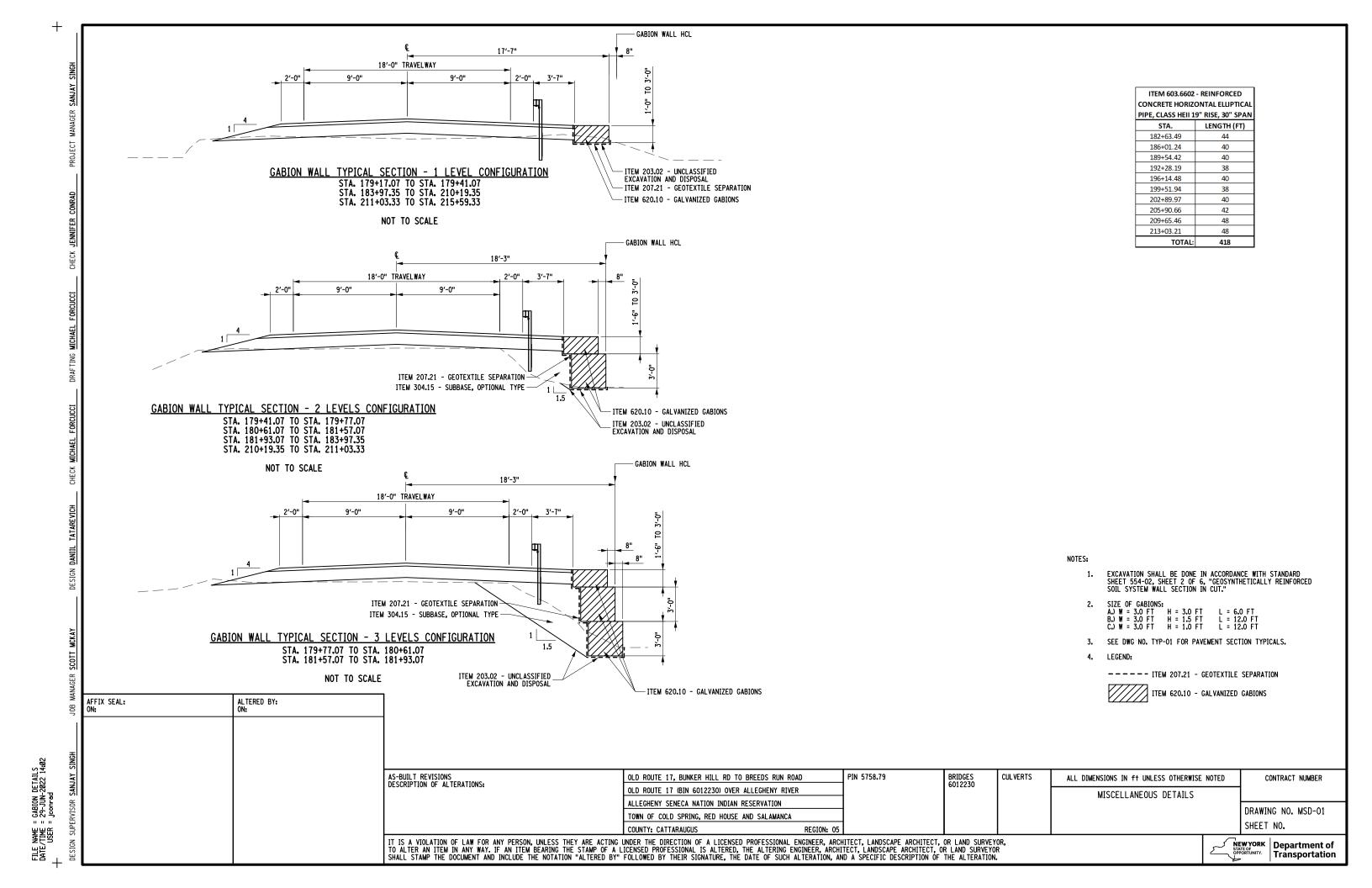
ITEM 606.10 - BOX BEAM GUIDE RAILING
ITEM 606.100002 - BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)
ITEM 606.120201 - BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA
ITEM 646.23 - LARGE DELINEATOR, LARGE SNOWPLOWING MARKER, LARGE SUPPLEMENTARY SNOWPLOWING MARKER PANELS
ITEM 646.32 - STEEL POST, 2.0 LB/FT

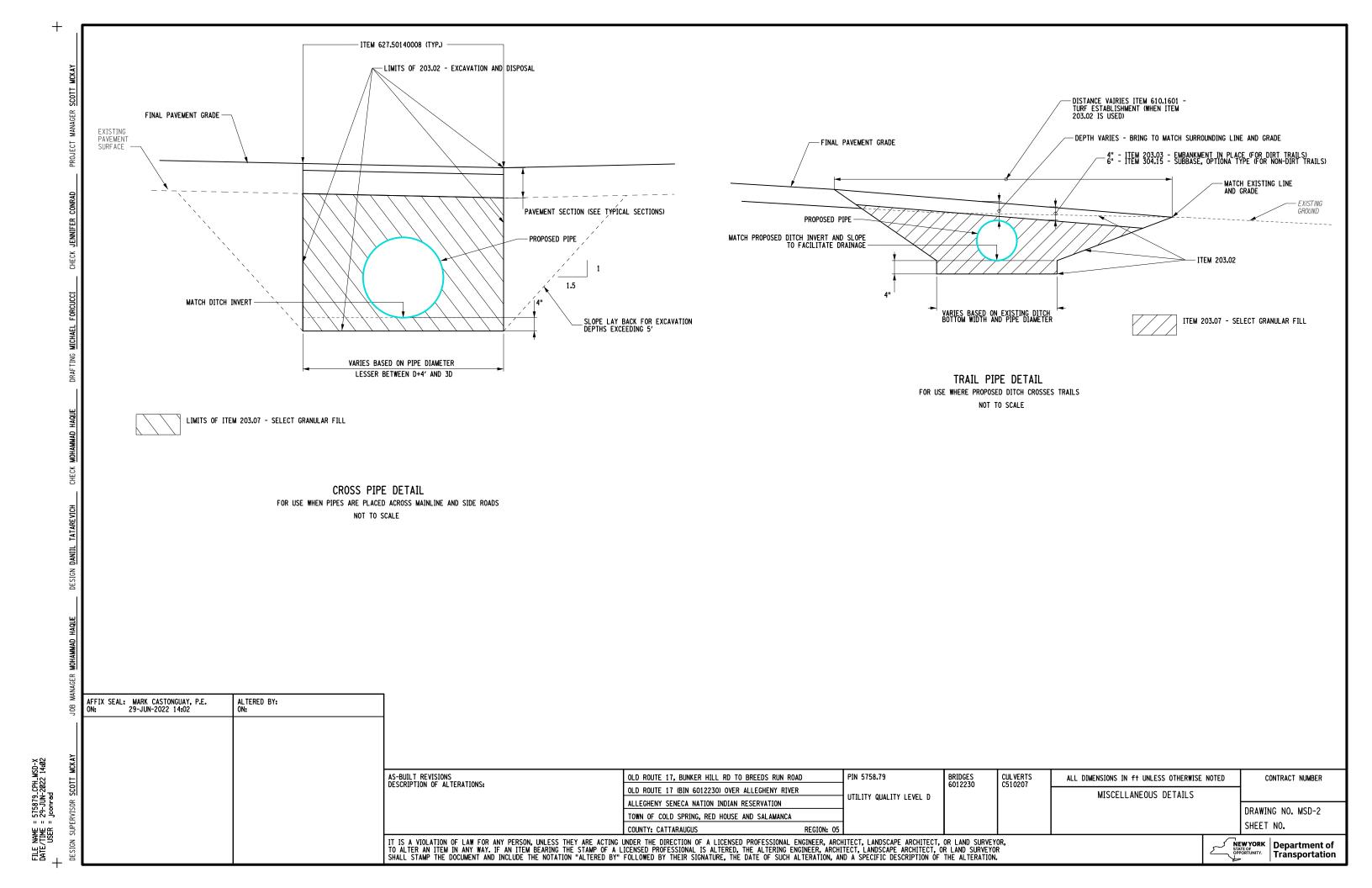
LOCATION	FROM STATION	TO STATION	SIDE	606.10 (LF)	606.100002 (LF)	606.120201 (EA)	646.23 (EA)	646.32 (EA)
1A	150+00	150+84	RT	84	78	2	3	2
1B	150+00	151+26	LT	126	-	2	3	2
2	158+00	163+82	RT	582	-	2	4	3
3A	167+50	168+22	LT	72	-	2	3	2
3B	167+50	169+24	RT	174	-	2	3	2
4	179+00	217+64	RT	3864	-	2	15	14
5A	277+00	277+42	LT	42	-	2	3	2
5B	277+00	277+42	RT	42	-	2	3	2
6A	297+50	302+42	LT	492	-	2	4	3
6B	297+50	302+84	RT	534	-	2	4	3
7A	302+50	302+68	LT	18	-	1	3	2
7B	302+50	302+68	RT	18	-	1	3	2
8A	308+75	308+93	LT	18	-	1	3	2
8B	308+75	310+91	RT	216	-	1	3	2
9	310+00	311+14	LT	114	-	2	3	2
			TOTAL:	6396	78	26	60	45

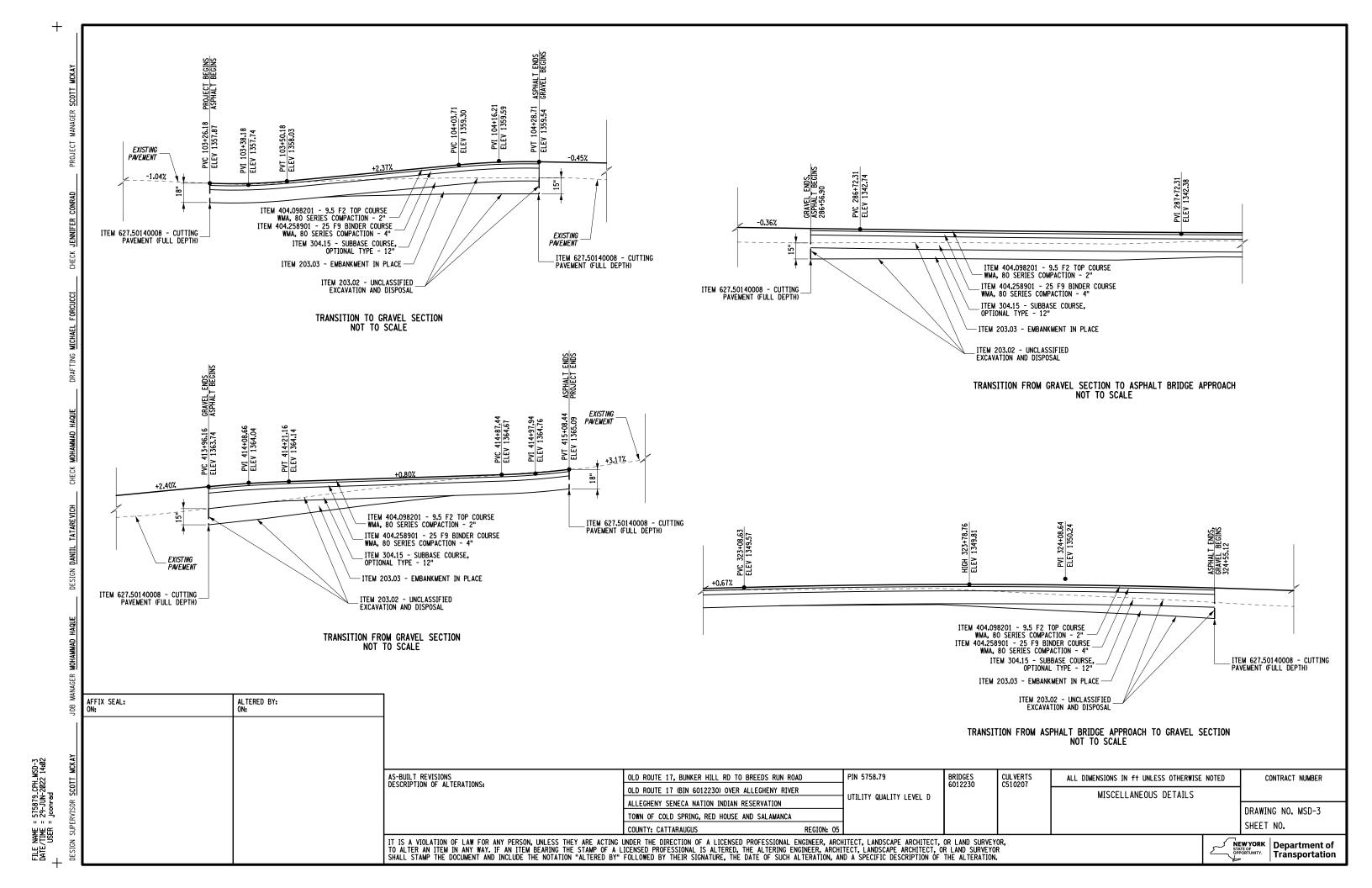
	PAVEMENT MARKING TABLE										
FROM STATION	TO STATION	ITEM 640.20 (LF)	ITEM 640.21 (LF)								
286+56.90	324+55.12	3798.22	3798.22								
	TOTAL:	3798.22	3798.22								

AFFIX SEAL: ON: ALTERED BY: ON: AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CULVERTS C510207 PIN 5758.79 OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER MISCELLANEOUS TABLES UTILITY QUALITY LEVEL D ALLEGHENY SENECA NATION INDIAN RESERVATION DRAWING NO. MST-1 TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA COUNTY: CATTARAUGUS REGION: 05 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK
STATE OF OPPORTUNITY.

Department of Transportation

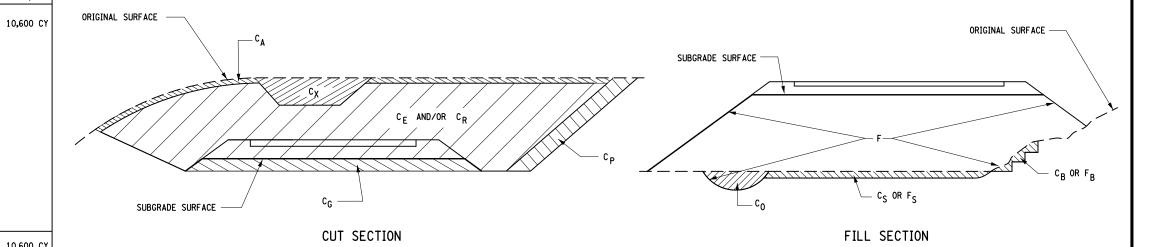






| SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY) | SOURCE | EXCAVATION | ITEM 203.02 | ITEM 203.03 | TE | CR | TU | CT | FT | ITEM 31,000 CY | 10,600 CY | ITEM 205.02 | ITEM 205.0

SUMMARY OF	TRENCH AND	CAVATION	
SOURCE	EXCAV	'ATION	ITEM
Source	ROCK	NON-ROCK	206.0201
TOTALS			



DEFINITIONS:

 ${\tt C}_{\tt B}$ - EXCAVATION FOR REQUIRED BENCHING, (BOTH LONGITUDINAL AND TRANSVERSE).

 $\mathbf{C}_{\mathbf{G}}$ - EXCAVATION FOR SUBGRADE IMPROVEMENT.

 C_{P} - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.

 $c_{\rm E}$ - Portion of cut assumed to be earth suitable for embankment construction, excluding $c_{\rm G}$ and $c_{\rm P}$.

 T_{E} - $(C_{B}$ + C_{G} + C_{P} + C_{E}) Total Earth excavation assumed suitable for embankment construction.

 $\boldsymbol{C_{\boldsymbol{A}}}$ - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.

 c_{S} - excavation of topsoil (unsuitable material) under embankment.

 C_X - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP

 ${\tt C_0}$ - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP

 T_U - $(C_A$ + C_S + C_X + C_0) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.

 $\mathbf{C}_{\mathbf{R}}$ - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING $\mathbf{C}_{\mathbf{G}}$ IF APPLICABLE.

 $C_T - (T_E + T_U + C_R)$ TOTAL EXCAVATION.

DEFINITIONS:

 ${\sf F}_{\sf R}$ - FILL REQUIRED TO REPLACE BENCHES.

 ${\sf F_S}$ - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.

F - FILL REQUIRED TO COMPLETE EMBANKMENT TO SUBGRADE SURFACE AND SIDE-SLOPES AFTER FOUNDATION IS PREPARED.

 F_T - $(F_B + F_S + F)$ TOTAL FILL REQUIRED.

 $\rm T_A$ - $\rm (T_E \times F_E + C_R \times F_R)$ THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.

 ${\sf F_E}$ - SHRINKAGE FACTOR FOR EARTH

F_R - SWELL FACTOR FOR ROCK

NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE TABLES ARE ESTIMATED, AND ARE PROVIDED FOR THE PURPOSE OF PREPARING AN ESTIMATE. THEY ARE NOT TO BE CONSTRUED AS BEING EXACT. THEY ARE INTENDED TO QUANTIFY AND QUALIFY THE NATURE OF THE WORK TO BE PERFORMED. SIGNIFICANT DIFFERENCE FROM THIS REPRESENTATION, WHEN ENCOUNTERED DURING THE ACTUAL WORK, WILL BE HANDLED ACCORDING TO THE SPECIFICATIONS GOVERNING THIS PROJECT.

203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

203.03 EMBANKMENT IN PLACE

206.0201 TRENCH AND CULVERT EXCAVATION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN	ROAD	PIN 5758.79	BRIDGES 6012230	CULVERTS C510207	ALL DIMENSIONS IN yd ³ UNLESS OTHERWISE NOTED	CONTRACT NUMBER
DESCRIPTION OF RETERNATIONS.	OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RI	VER	UTILITY QUALITY LEVEL D	0012230	0010201	EARTHWORK SUMMARY SHEET	
	ALLEGHENY SENECA NATION INDIAN RESERVATION		-				DRAWING NO. ES-01
	TOWN OF COLD SPRING, RED HOUSE AND SALAMANC		-				SHEET NO.
	COUNTY: CATTARAUGUS	REGION: 05		<u> </u>			THE PART OF THE PA

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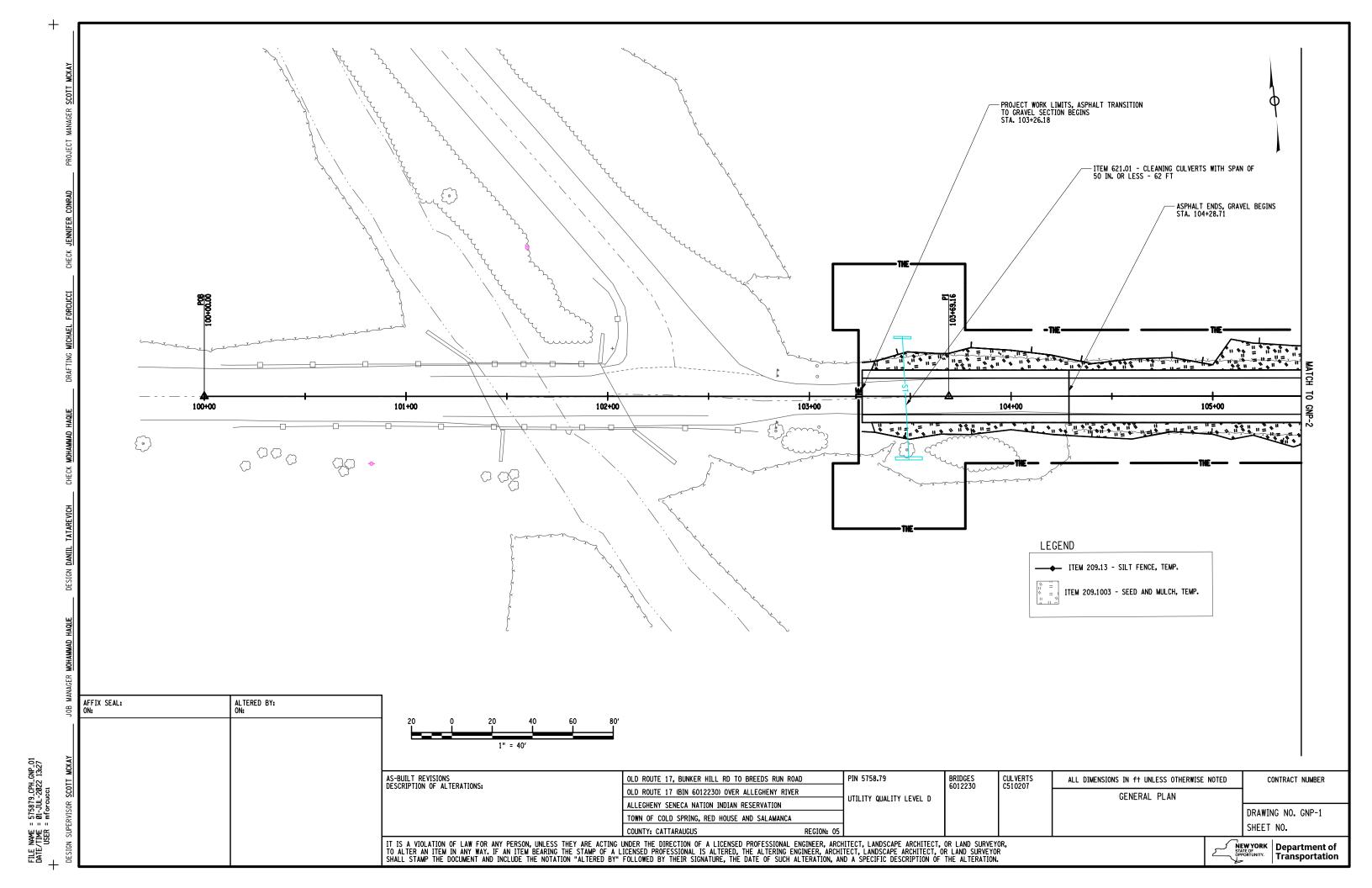
NEW YORK STATE OF OPPORTUNITY. Department of Transportation

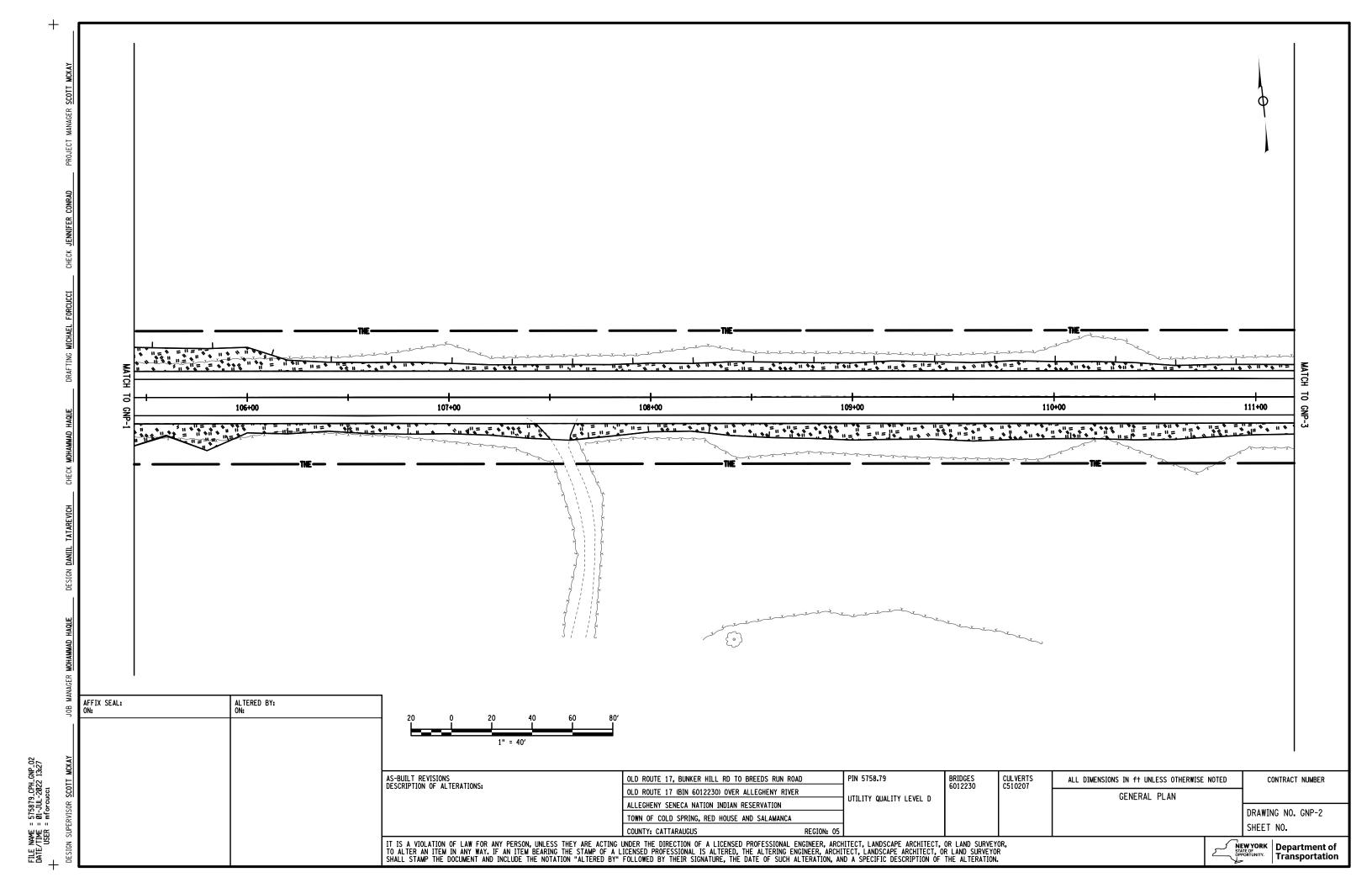
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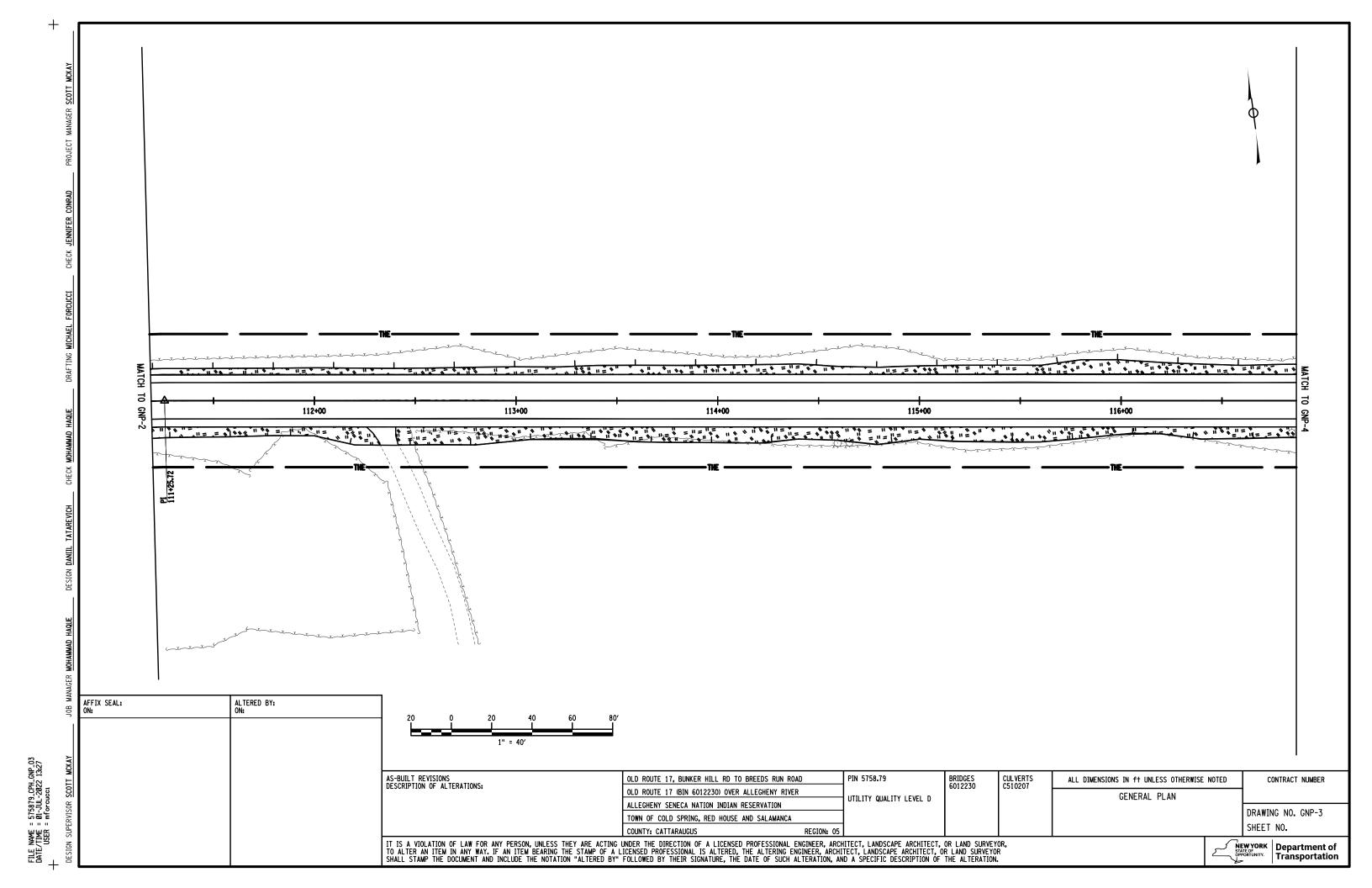
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DESIGN SUPERVISOR SCOTT MCKAY

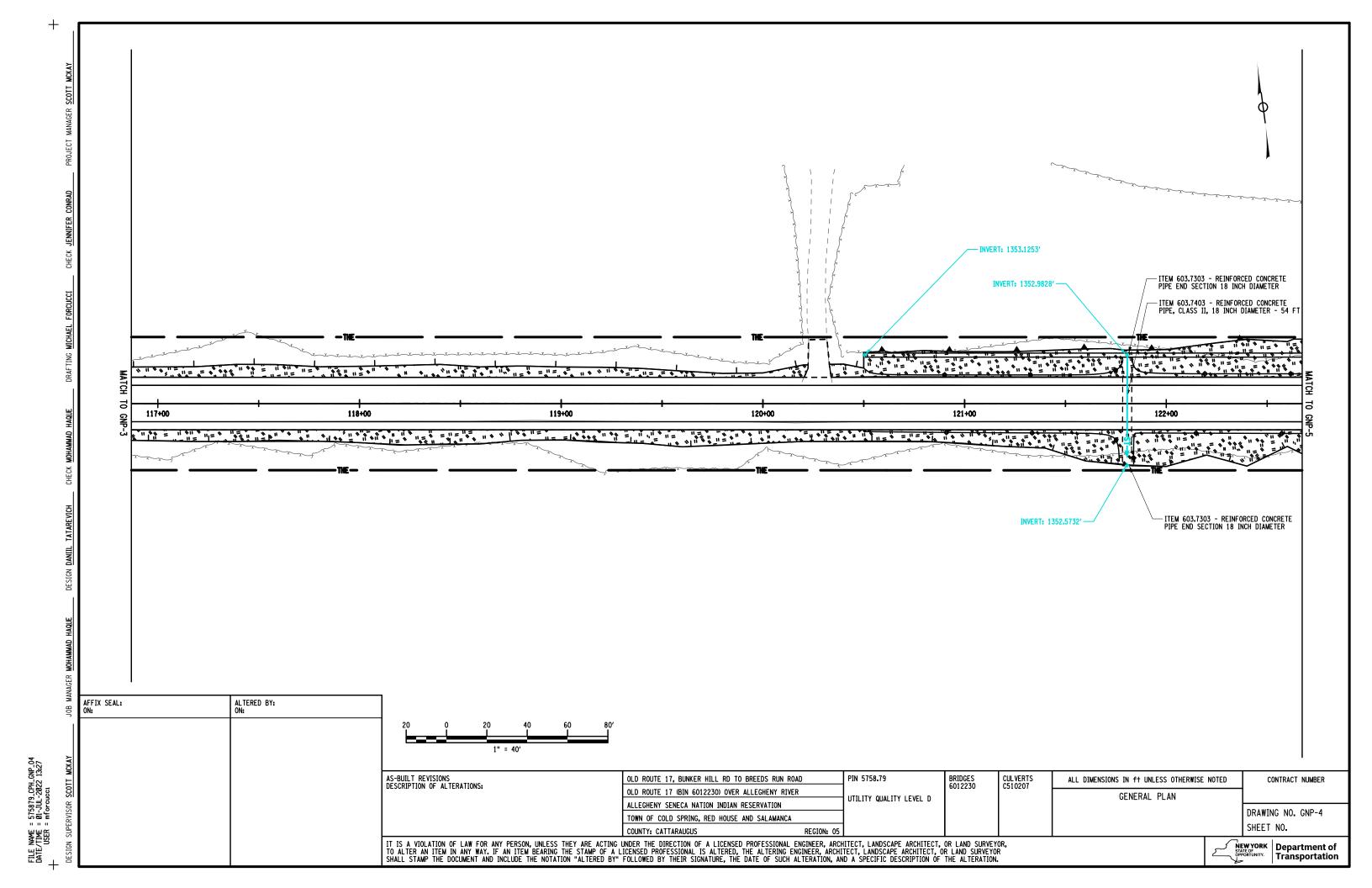
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	OLD ROUTE 17, BUNKER HILL RD TO BREEDS	OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER			CULVERTS C510207	ALL DIMENSIONS IN yd ³ UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	OLD ROUTE 17 (BIN 6012230) OVER ALLEGHE					EARTHWORK SUMMARY SHEET	
	ALLEGHENY SENECA NATION INDIAN RESERVAT	ALLEGHENY SENECA NATION INDIAN RESERVATION					DRAWING NO. ES-02
	TOWN OF COLD SPRING, RED HOUSE AND SALA	AMANCA					
	COUNTY: CATTARAUGUS	REGION: 05					SHEET NO.
						N S S	Department of Transportation

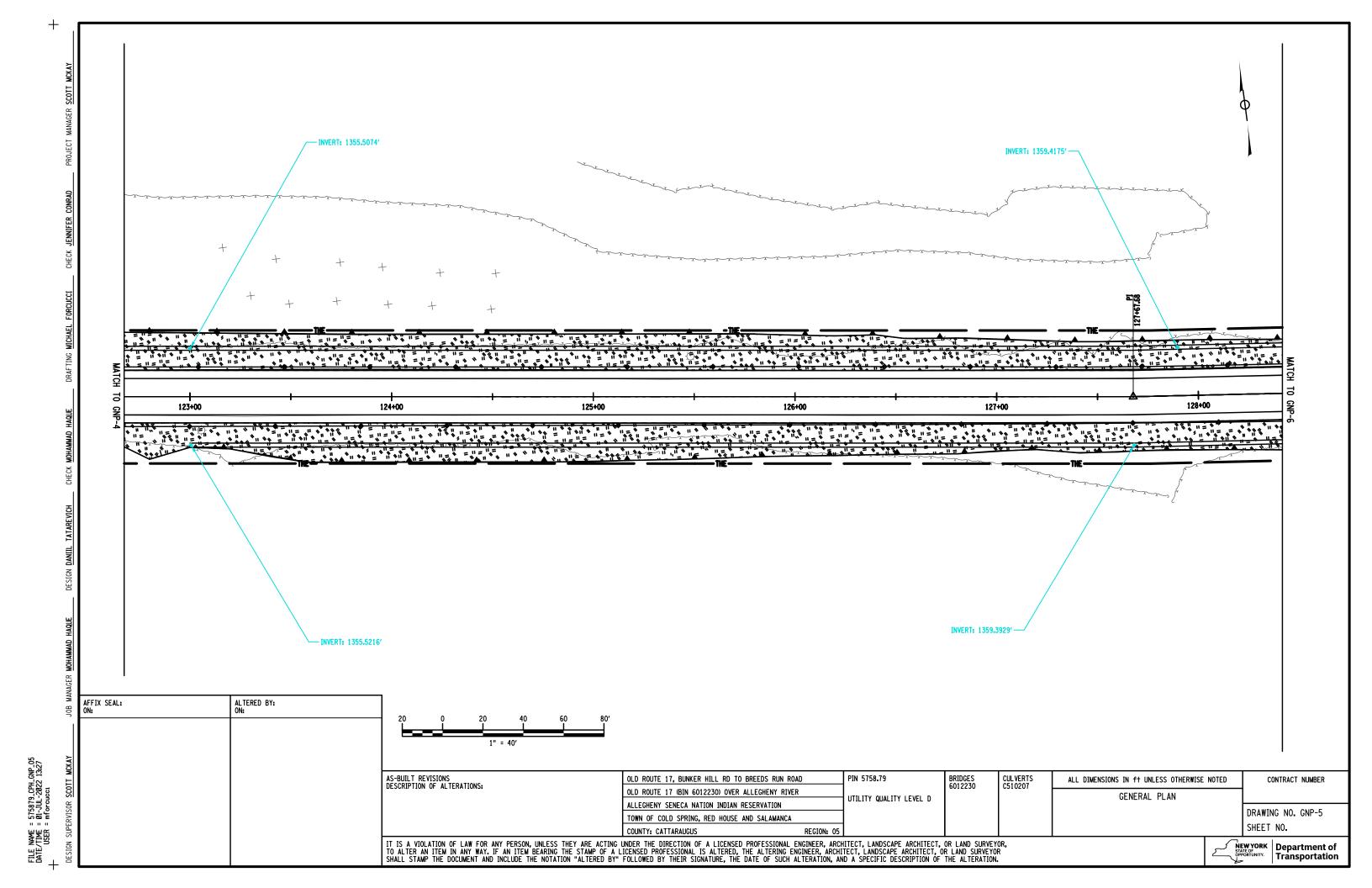
SUBDIVISION NO.	LOCATION (STATION TO STATION)	SUITABLE EXCAVATION					ROCK	UNSUITABLE EXCAVATION					TOTAL EXCAVATION		EMBANKMENT			
		c _B	c _G	CP	cE	Τ _E	c _R	CA	cs	cX	c ₀	TU	c _T	FB	F _S	F	F _T	
	TOTALS																	

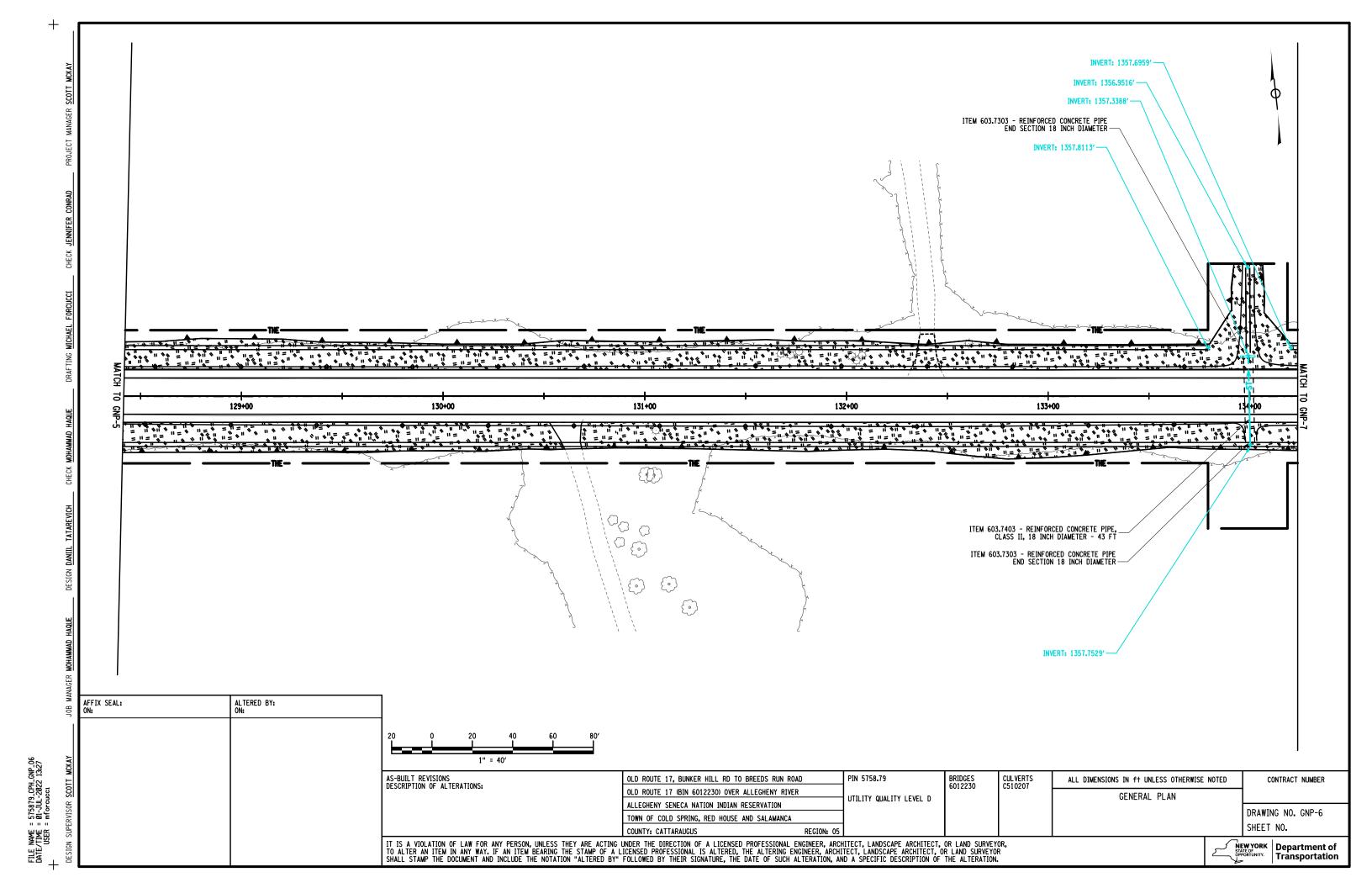


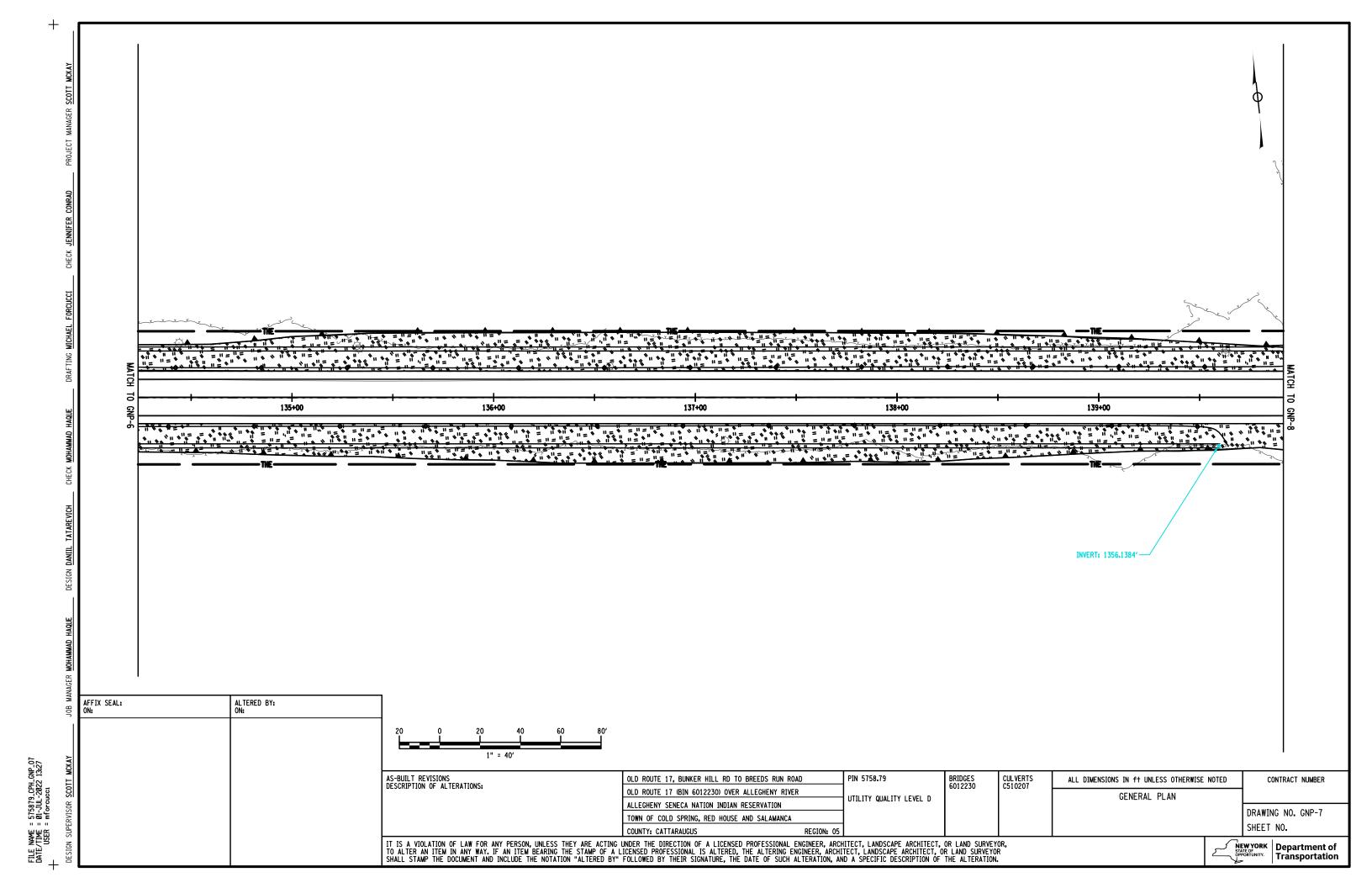


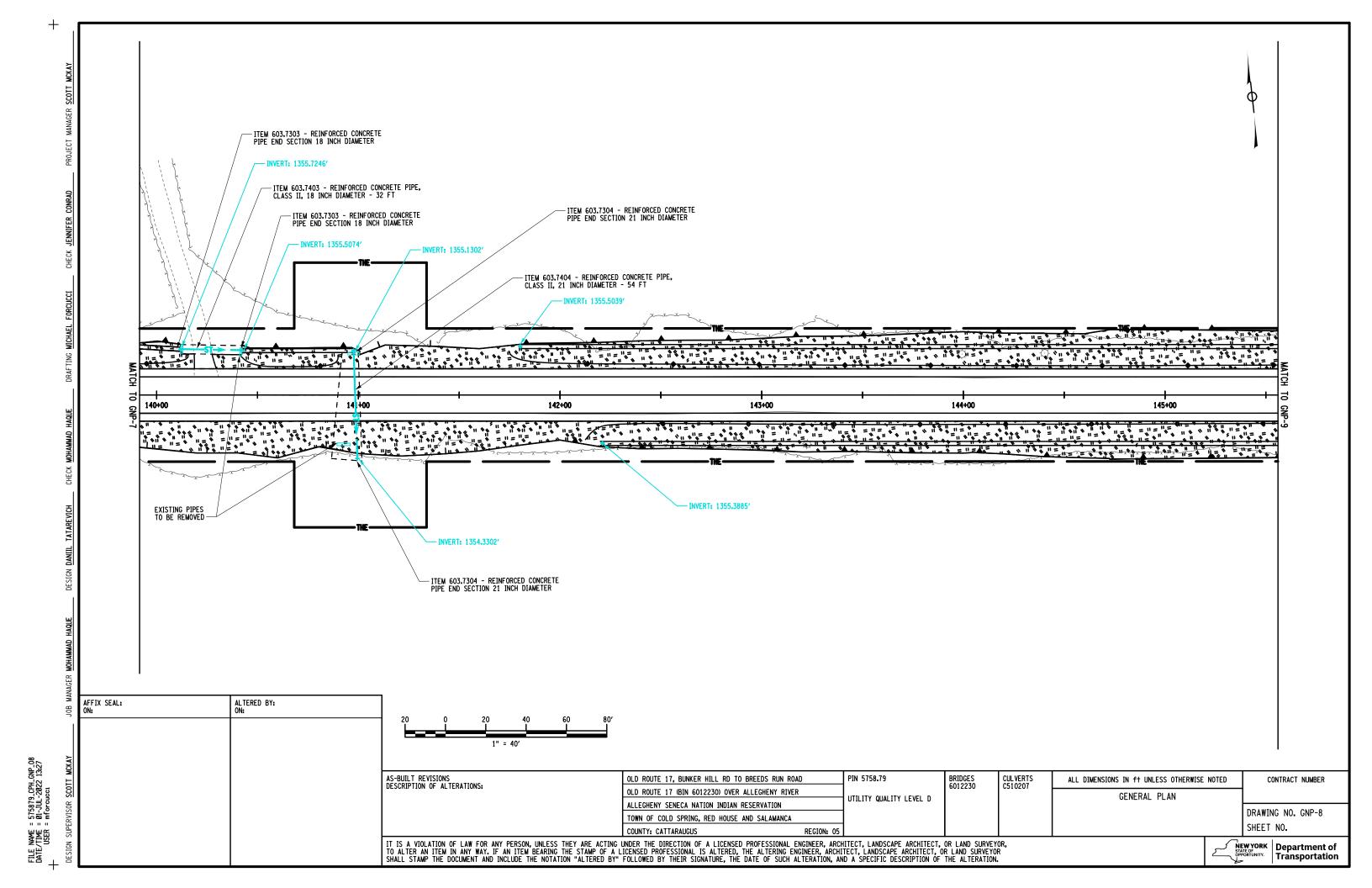


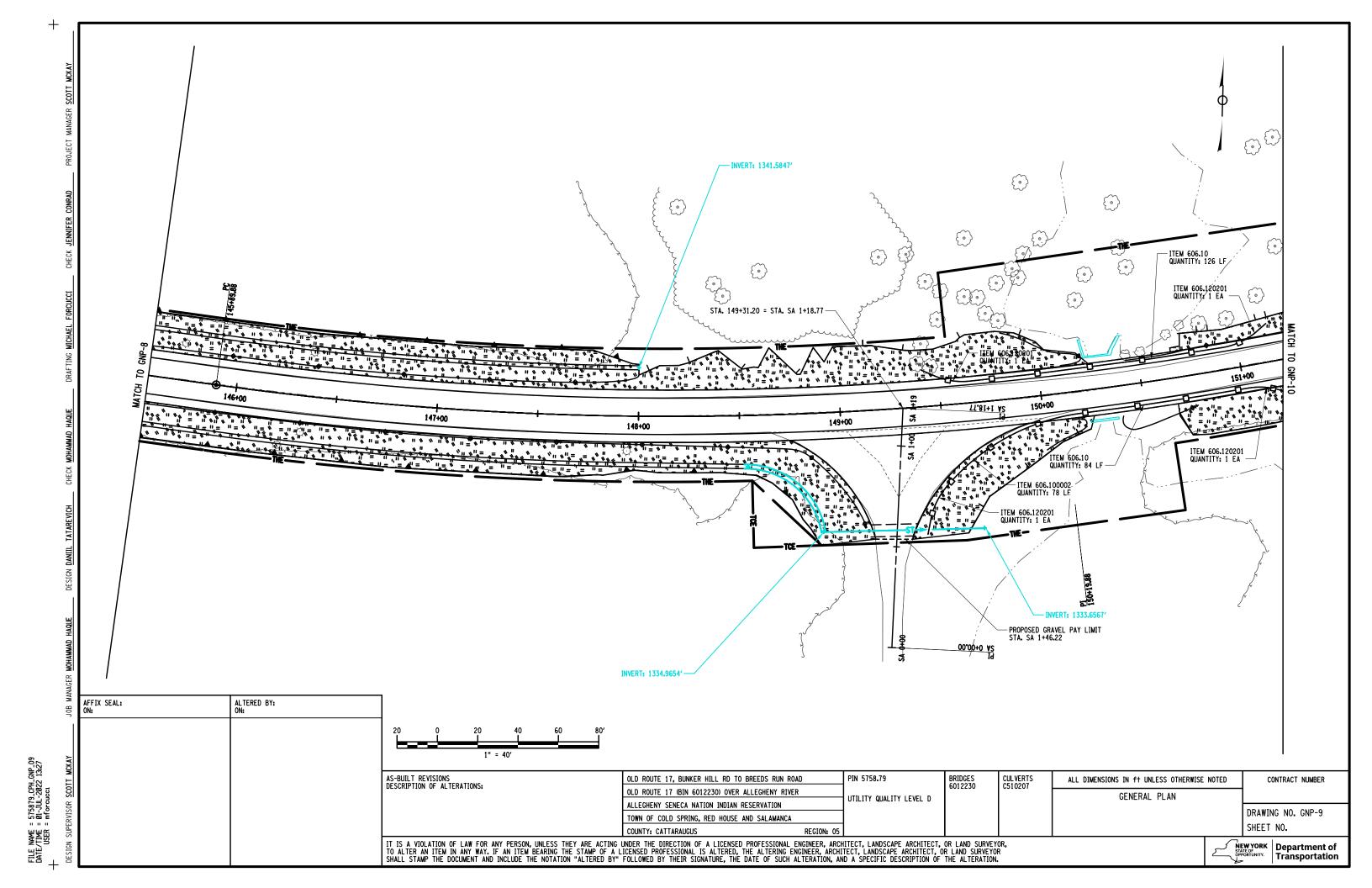


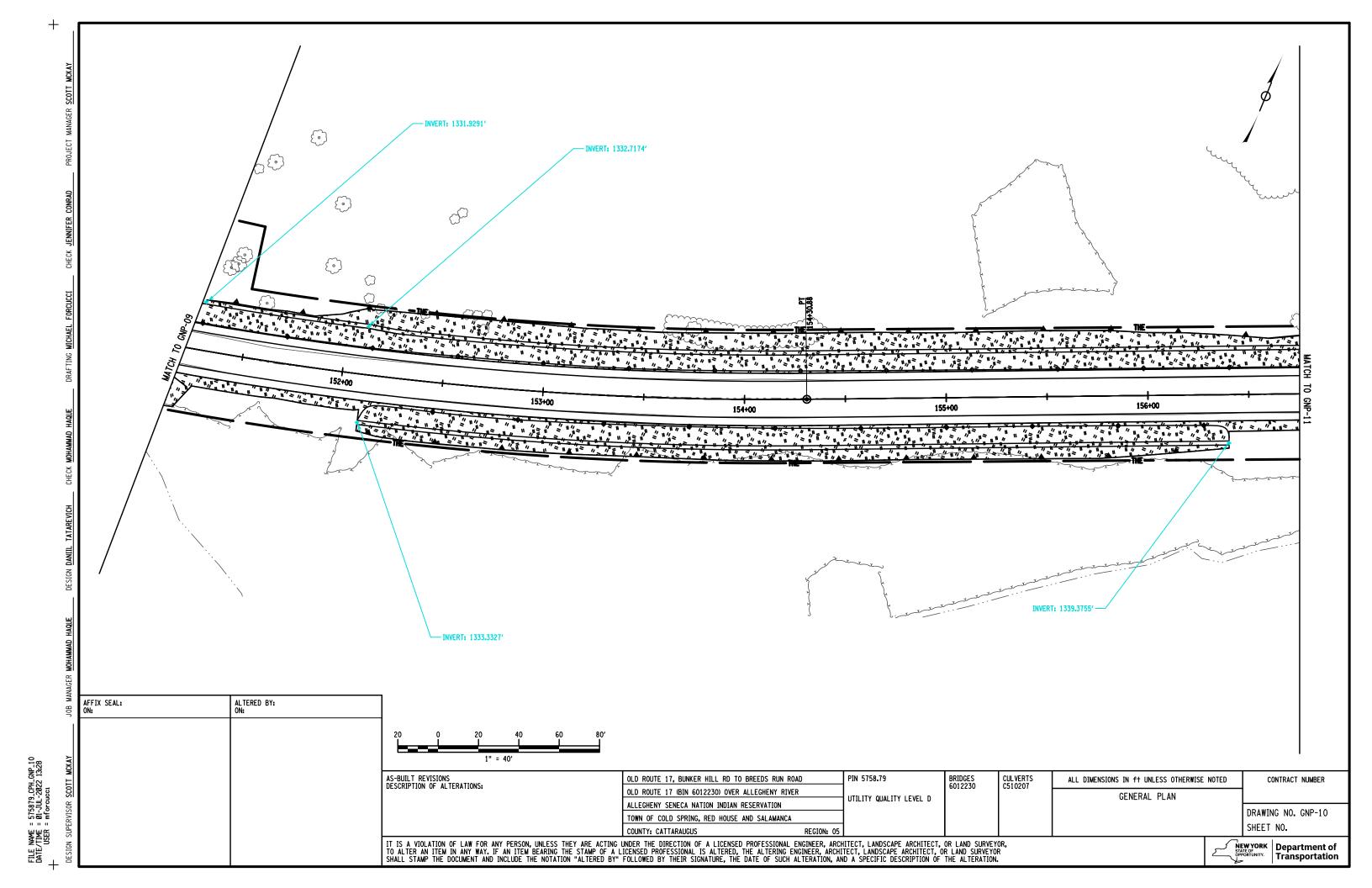


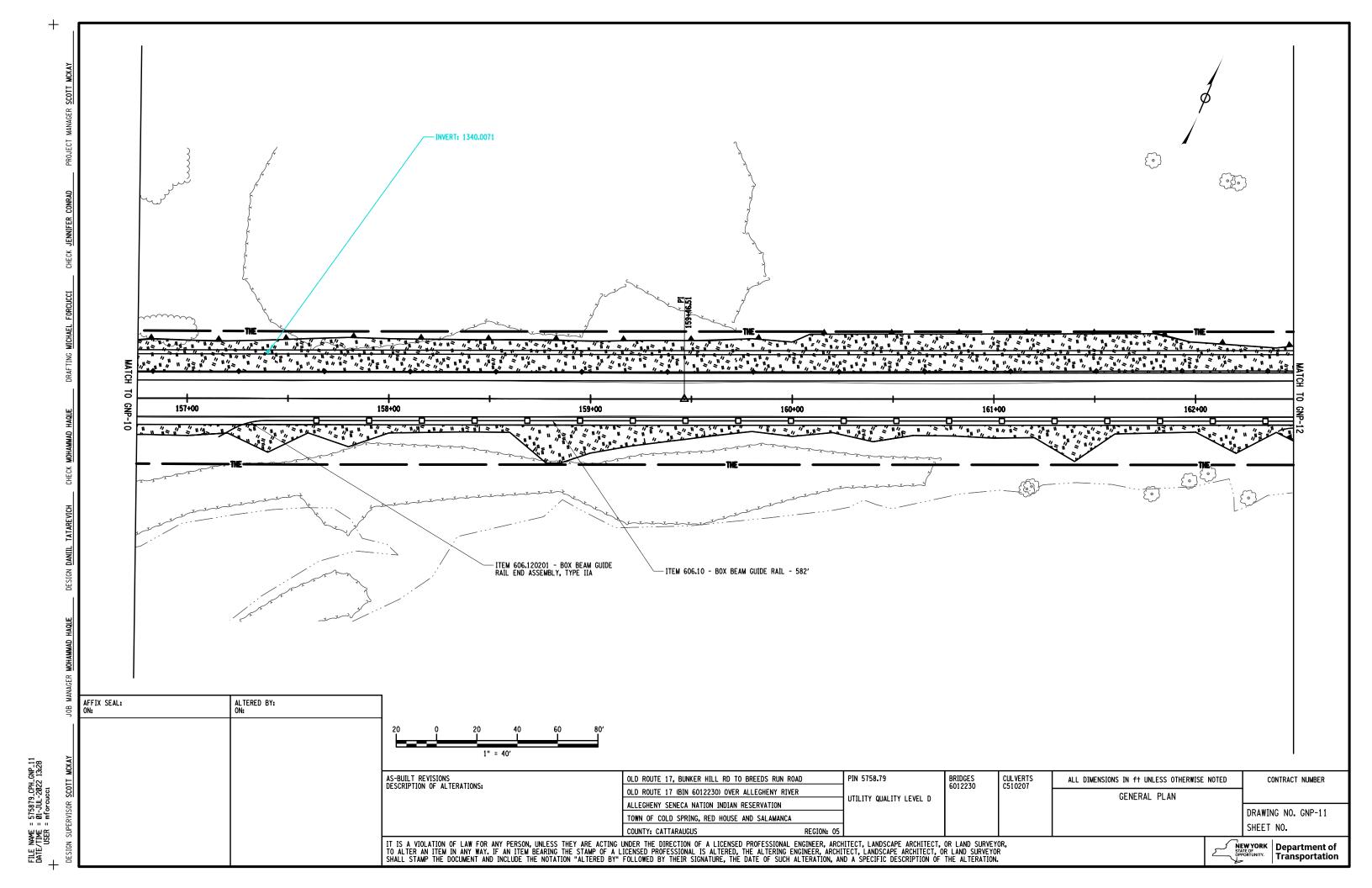


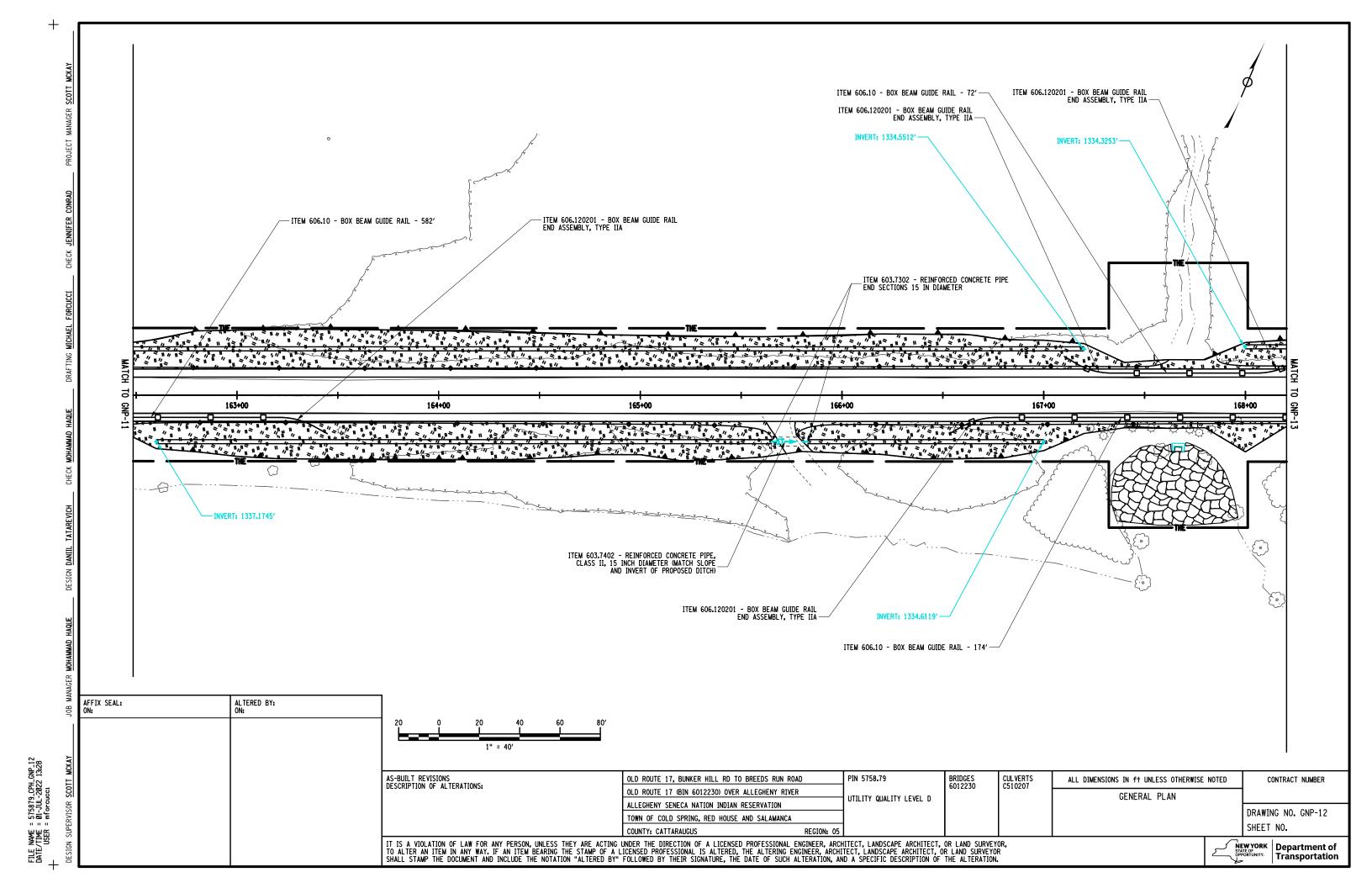




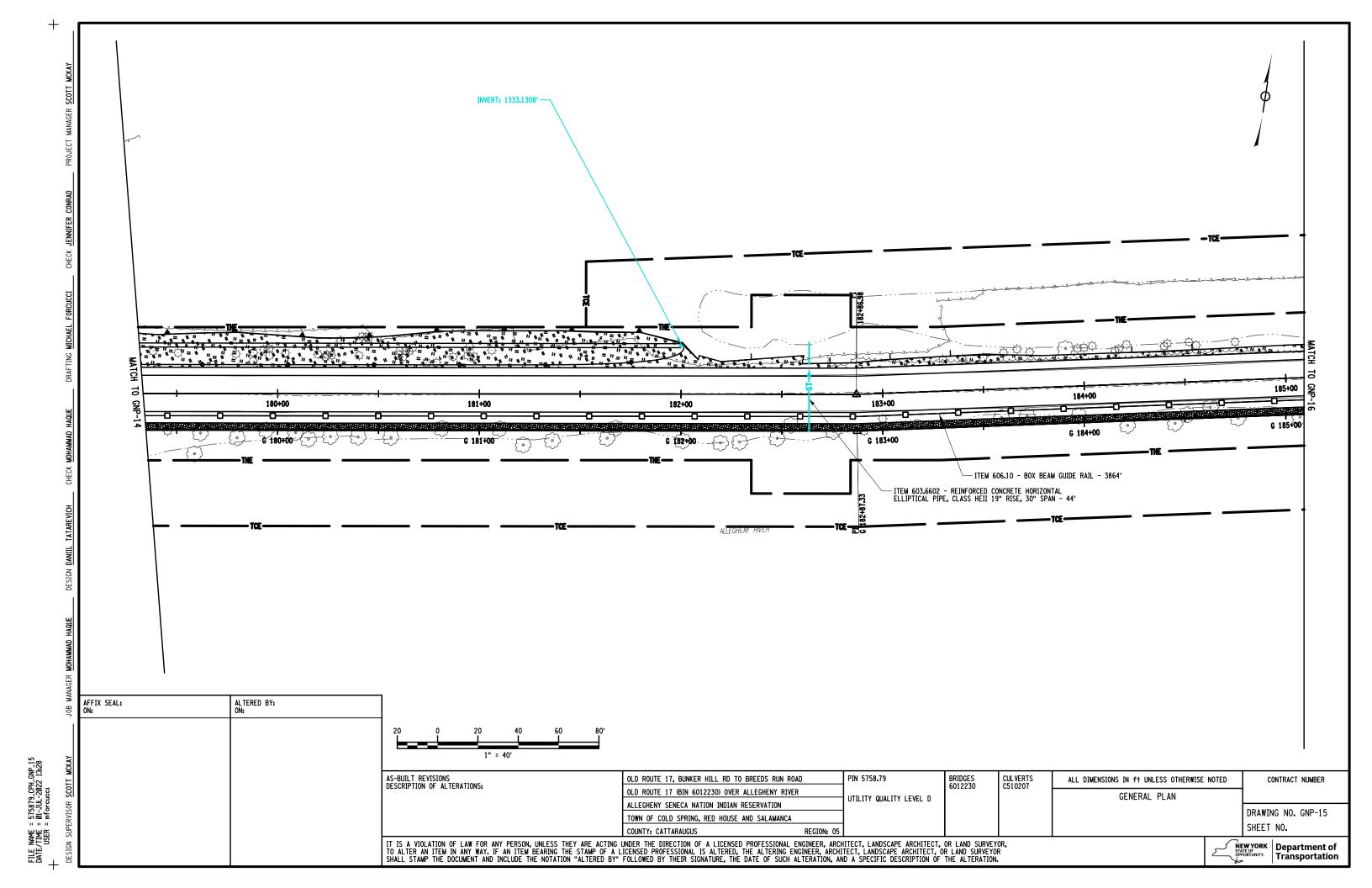


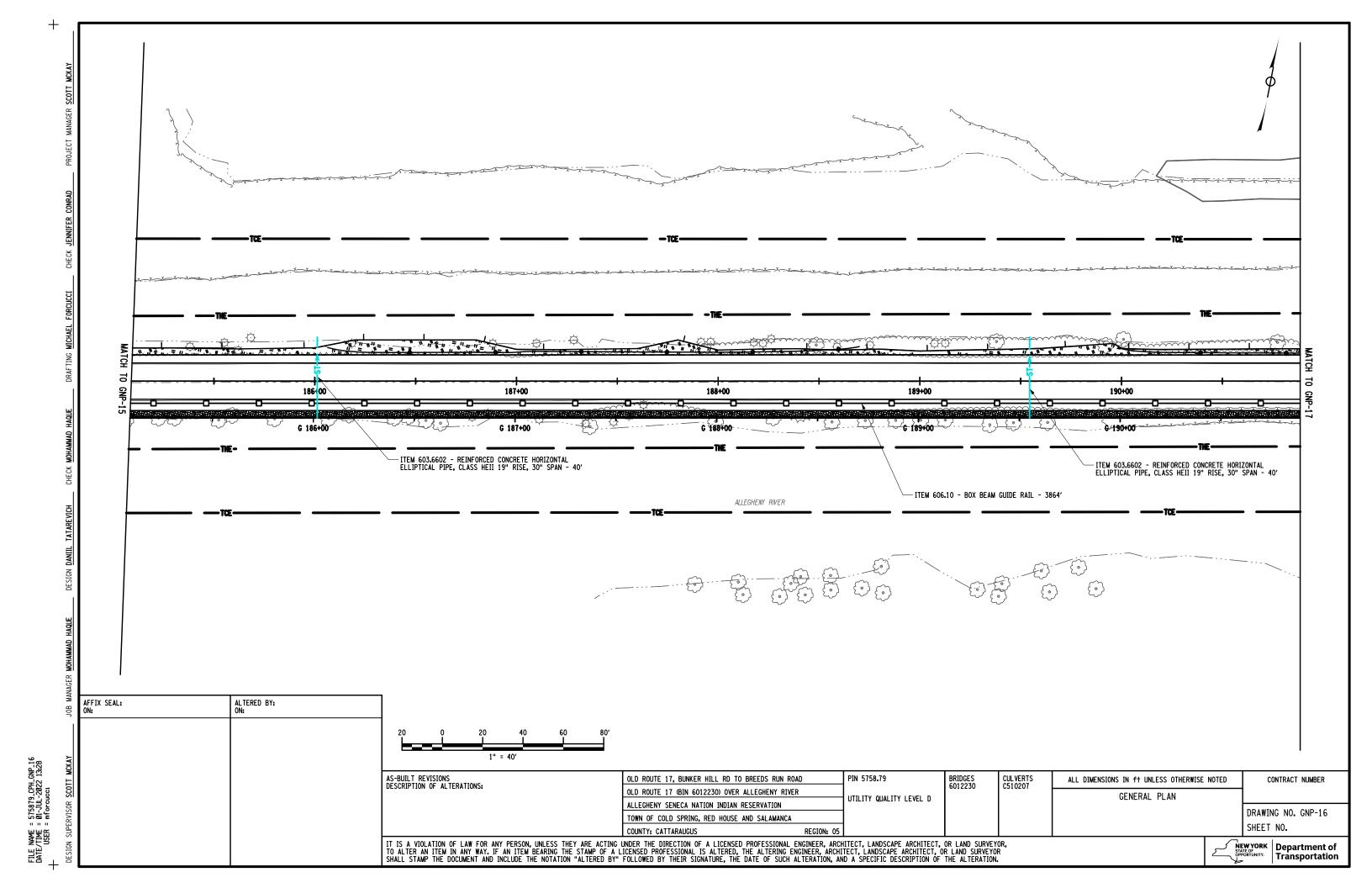


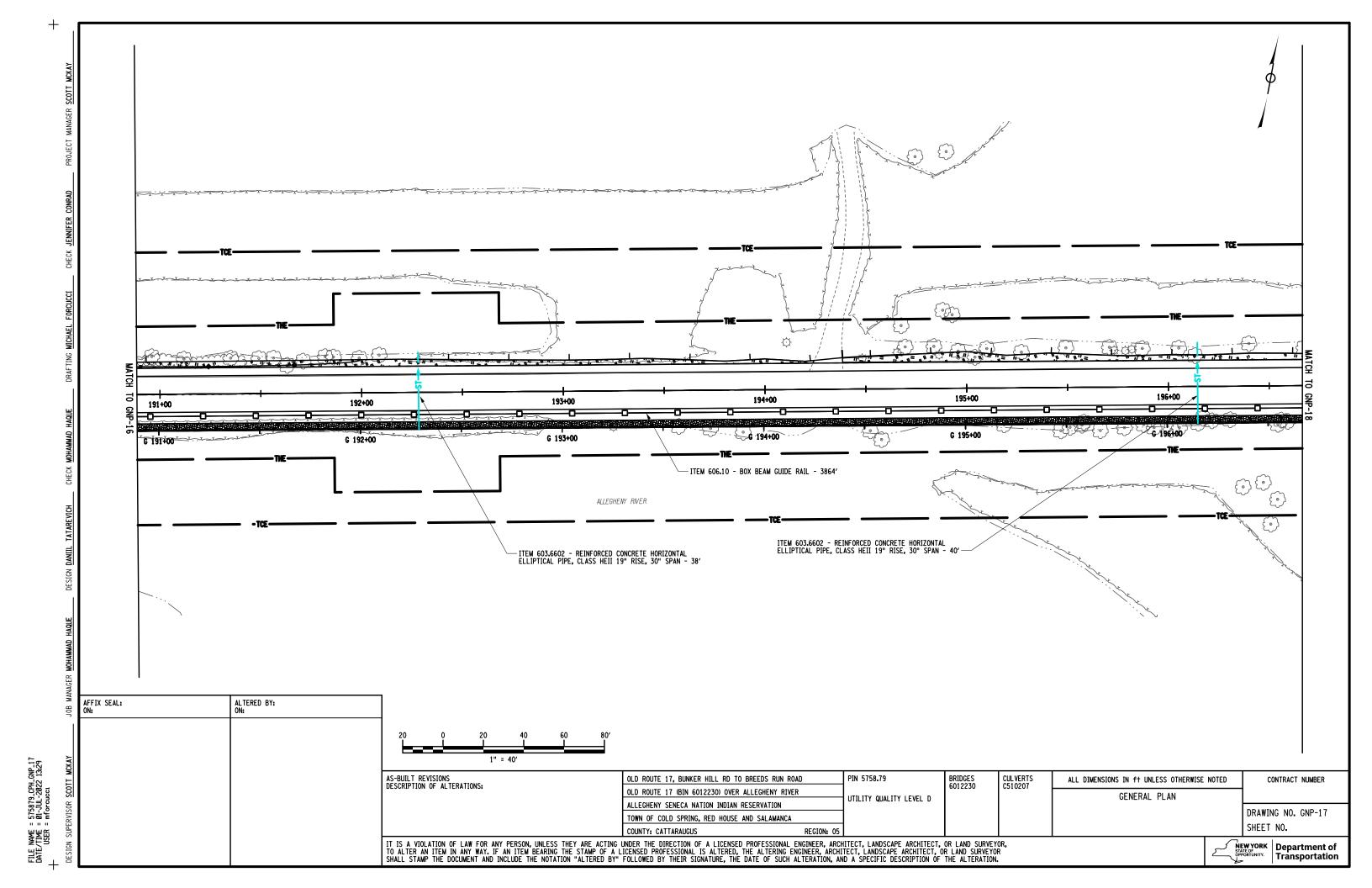


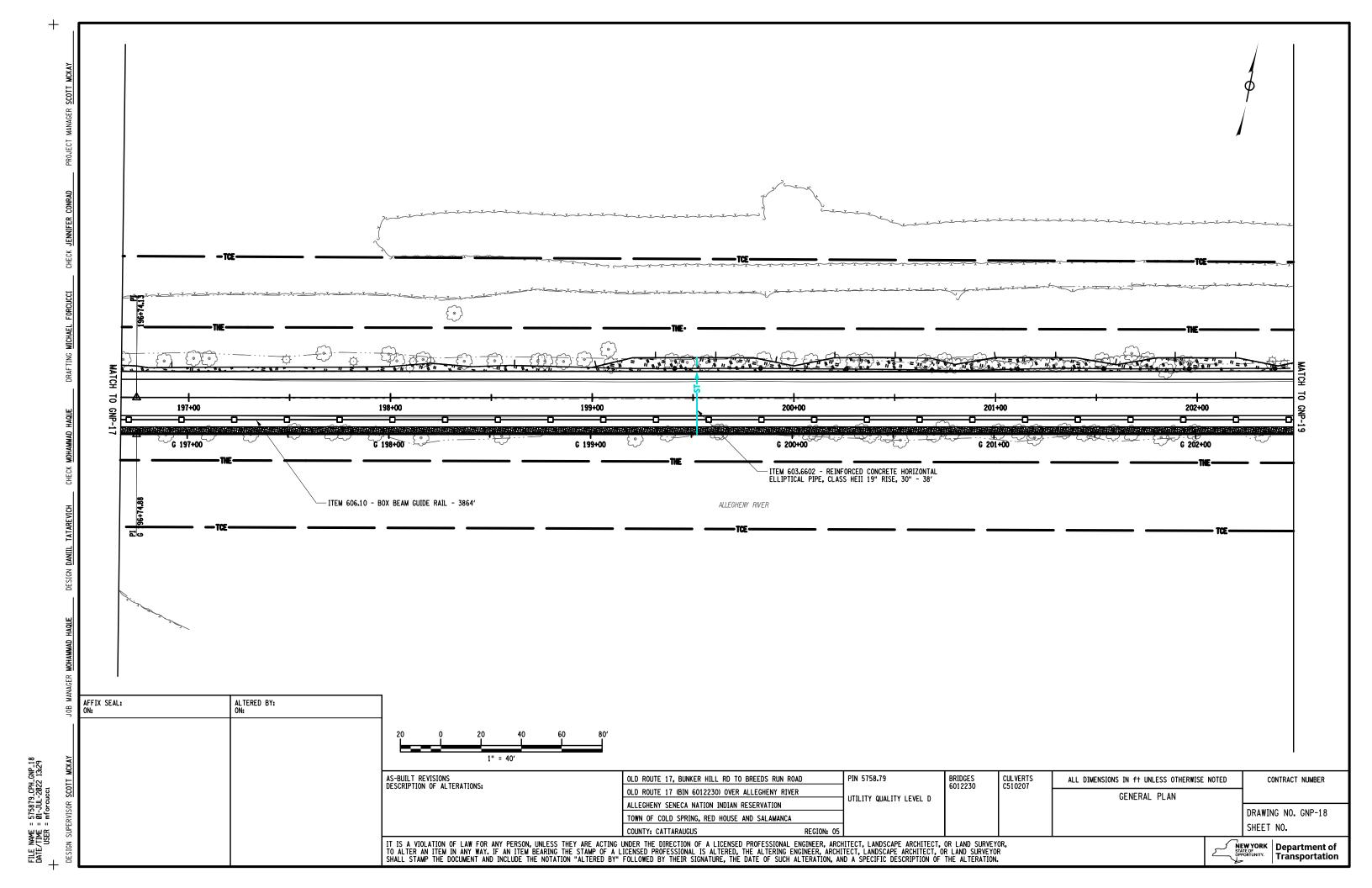


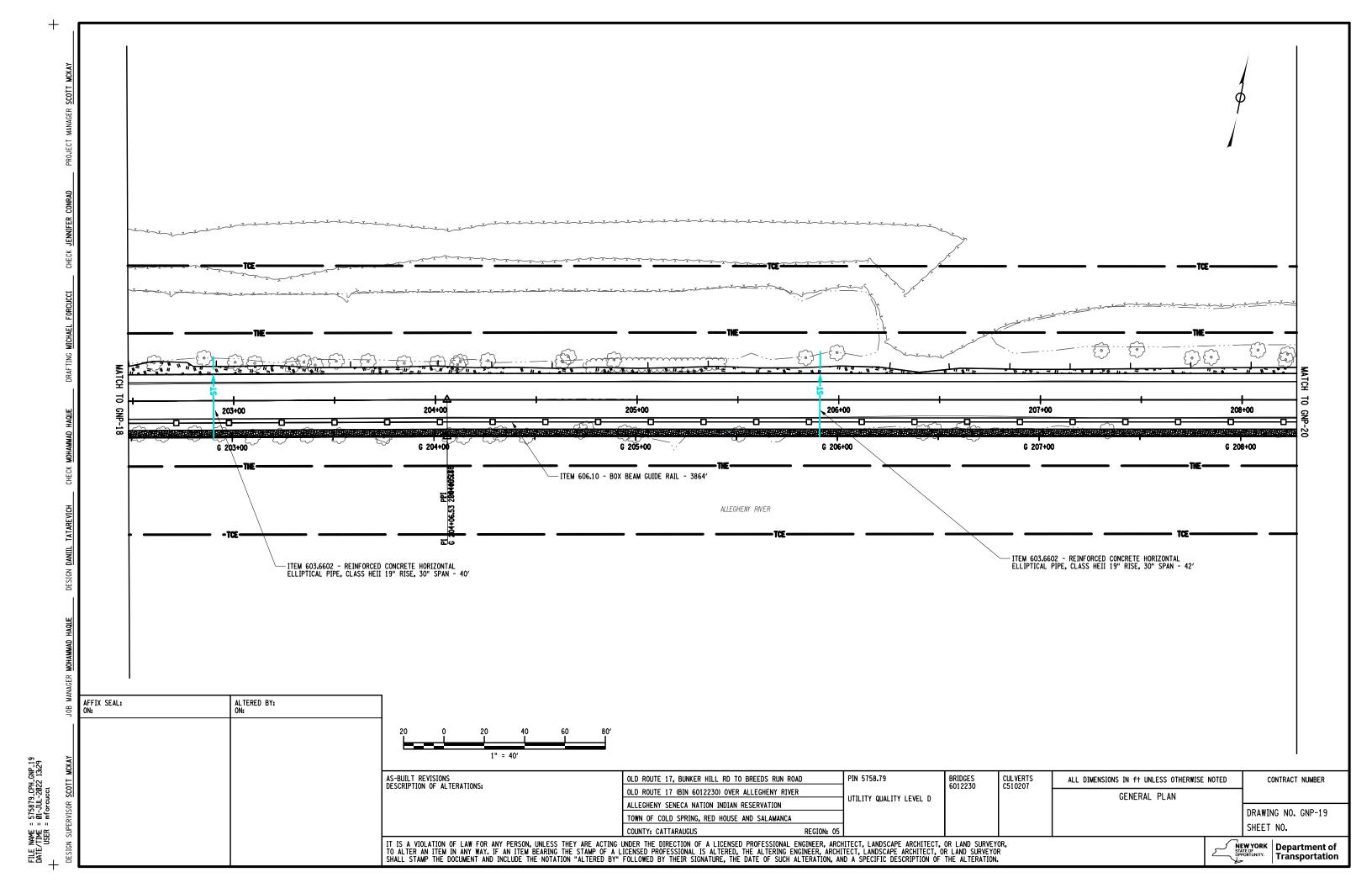
ITEM 603,7303 - REINFORCED CONCRETE PIPE END SECTION 18 INCH DIAMETER _ITEM 603.7403 - REINFORCED CONCRETE PIPE, CLASS II, 18 INCH DIAMETER _ ITEM 603.7303 - REINFORCED CONCRETE PIPE END SECTION 18 INCH DIAMETER 169+00 170+00 171+00 172+00 173+00 _ITEM 603.7303 - REINFORCED CONCRETE PIPE END SECTION 18 INCH DIAMETER _ITEM 603.7403 - REINFORCED CONCRETE PIPE, CLASS II, 18 INCH DIAMETER ITEM 603.7303 - REINFORCED CONCRETE PIPE END SECTION 18 INCH DIAMETER NVERT: 1334.4974' ITEM 606.120201 - BOX BEAM GUIDE RAIL - END ASSEMBLY, TYPE IIA - ITEM 606.10 - BOX BEAM GUIDE RAIL - 174' AFFIX SEAL: ON: ALTERED BY: ON: AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: CULVERTS C510207 PIN 5758.79 BRIDGES 6012230 OLD ROUTE 17, BUNKER HILL RD TO BREEDS RUN ROAD ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER OLD ROUTE 17 (BIN 6012230) OVER ALLEGHENY RIVER GENERAL PLAN UTILITY QUALITY LEVEL D ALLEGHENY SENECA NATION INDIAN RESERVATION DRAWING NO. GNP-13 TOWN OF COLD SPRING, RED HOUSE AND SALAMANCA SHEET NO. COUNTY: CATTARAUGUS IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK STATE OF OPPORTUNITY. Department of Transportation

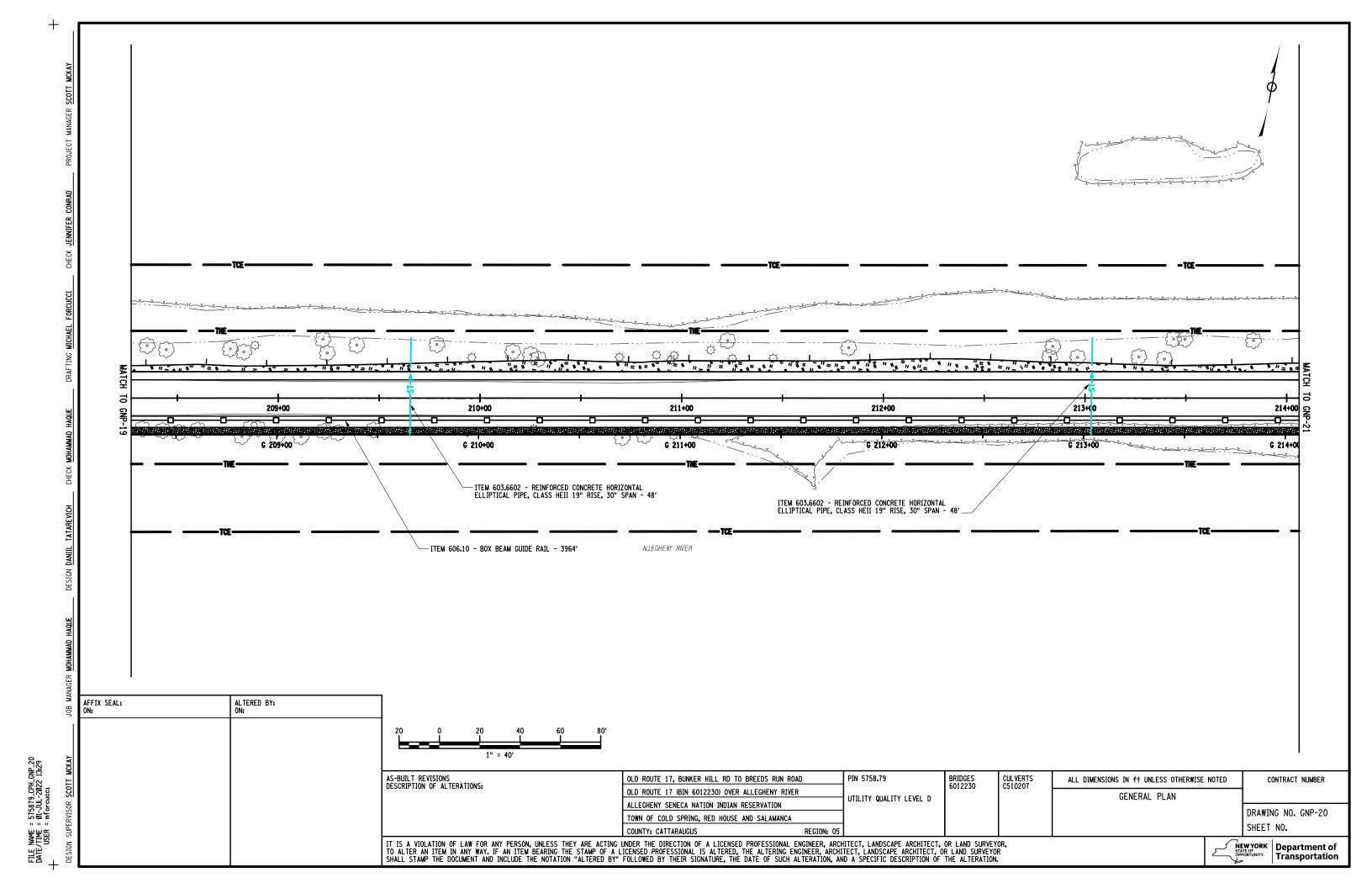


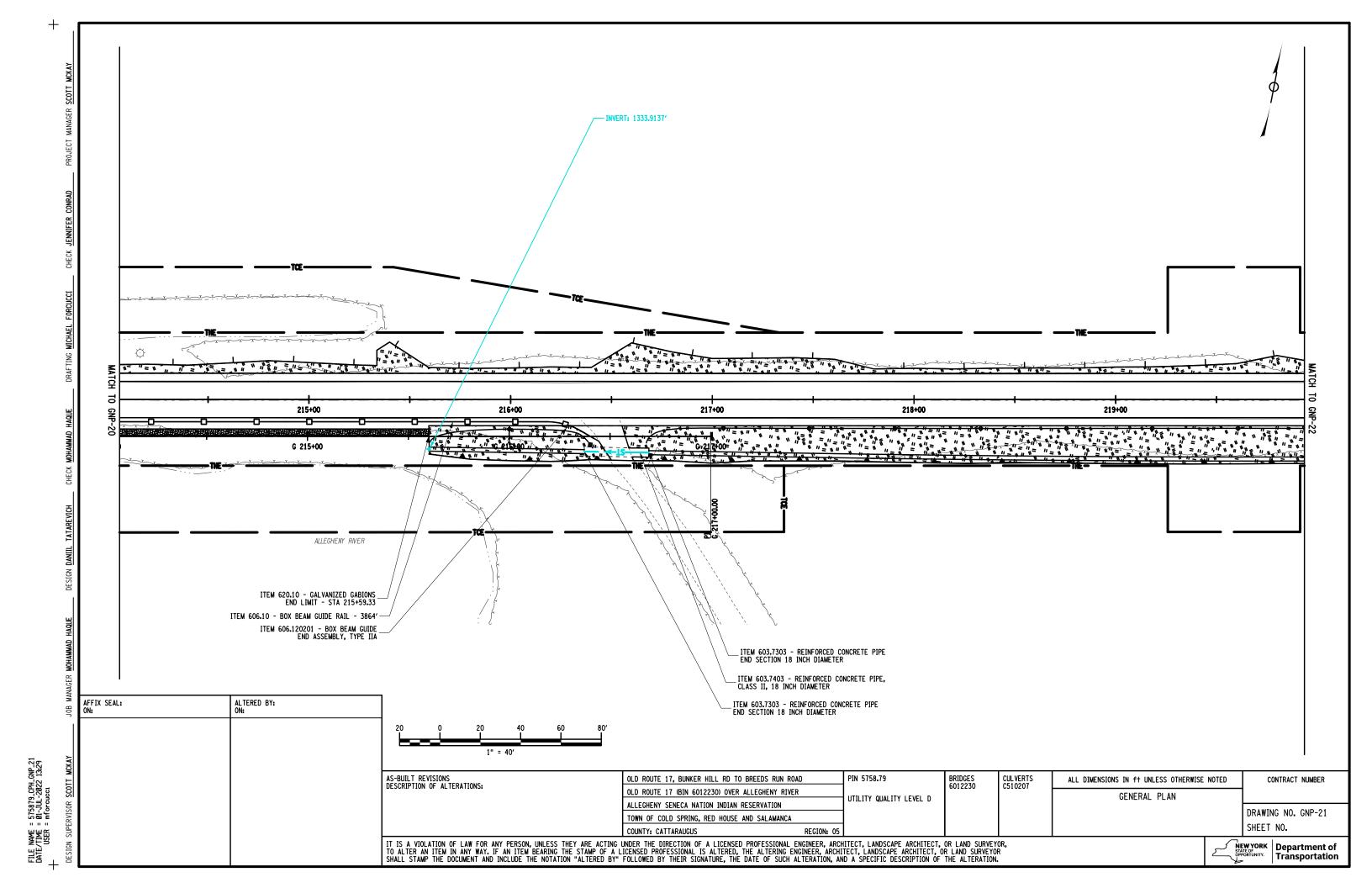


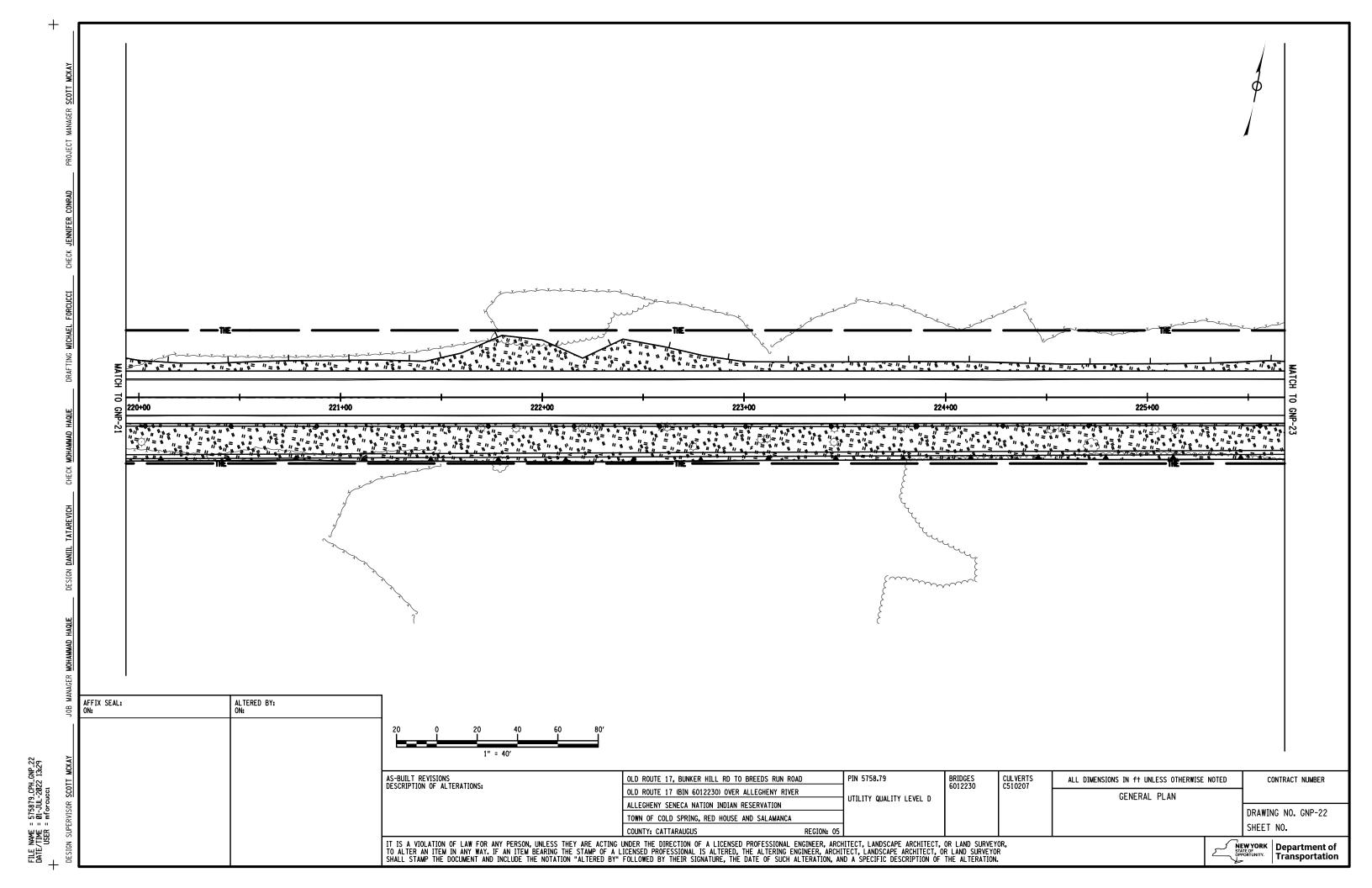


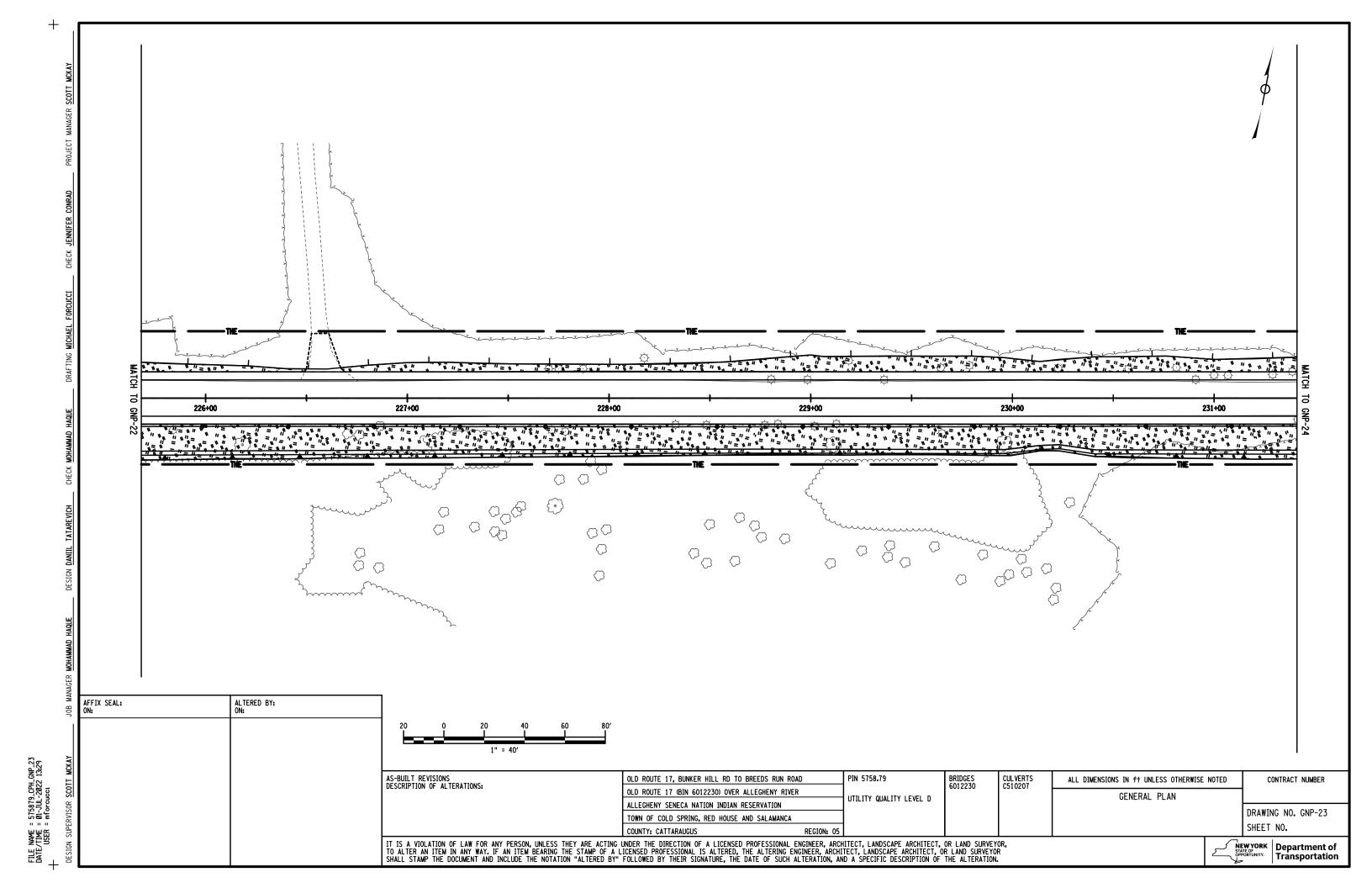


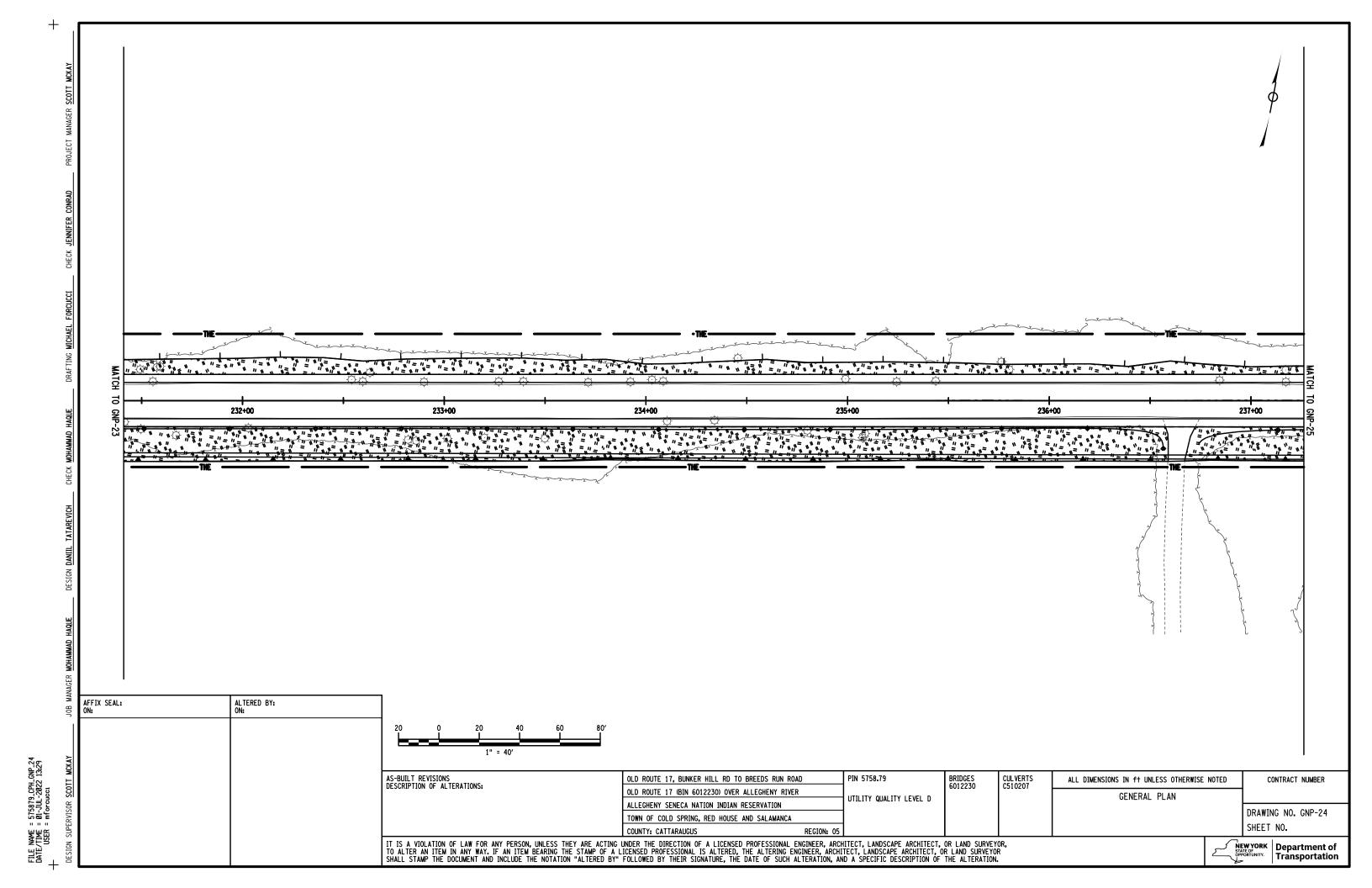


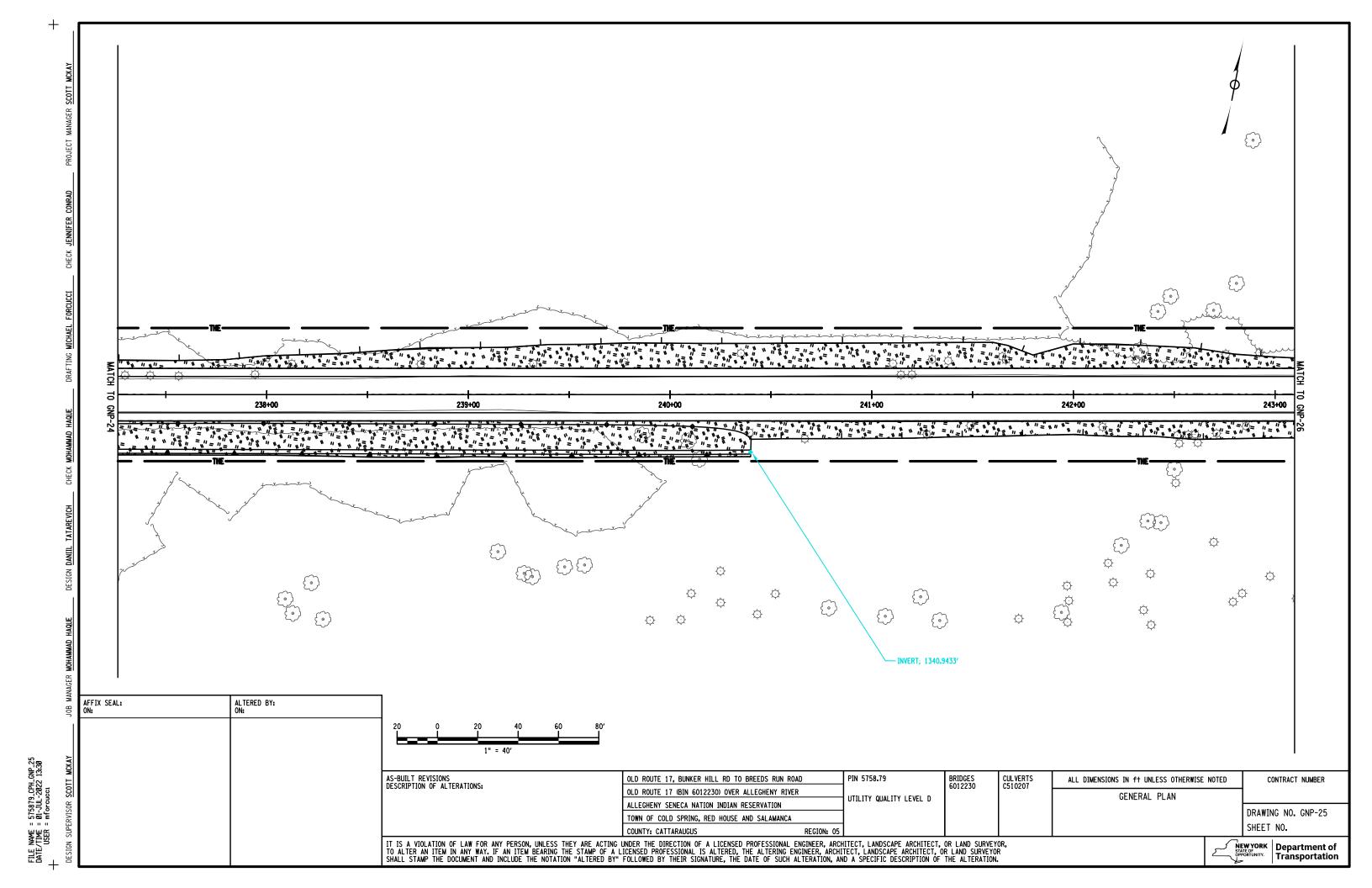


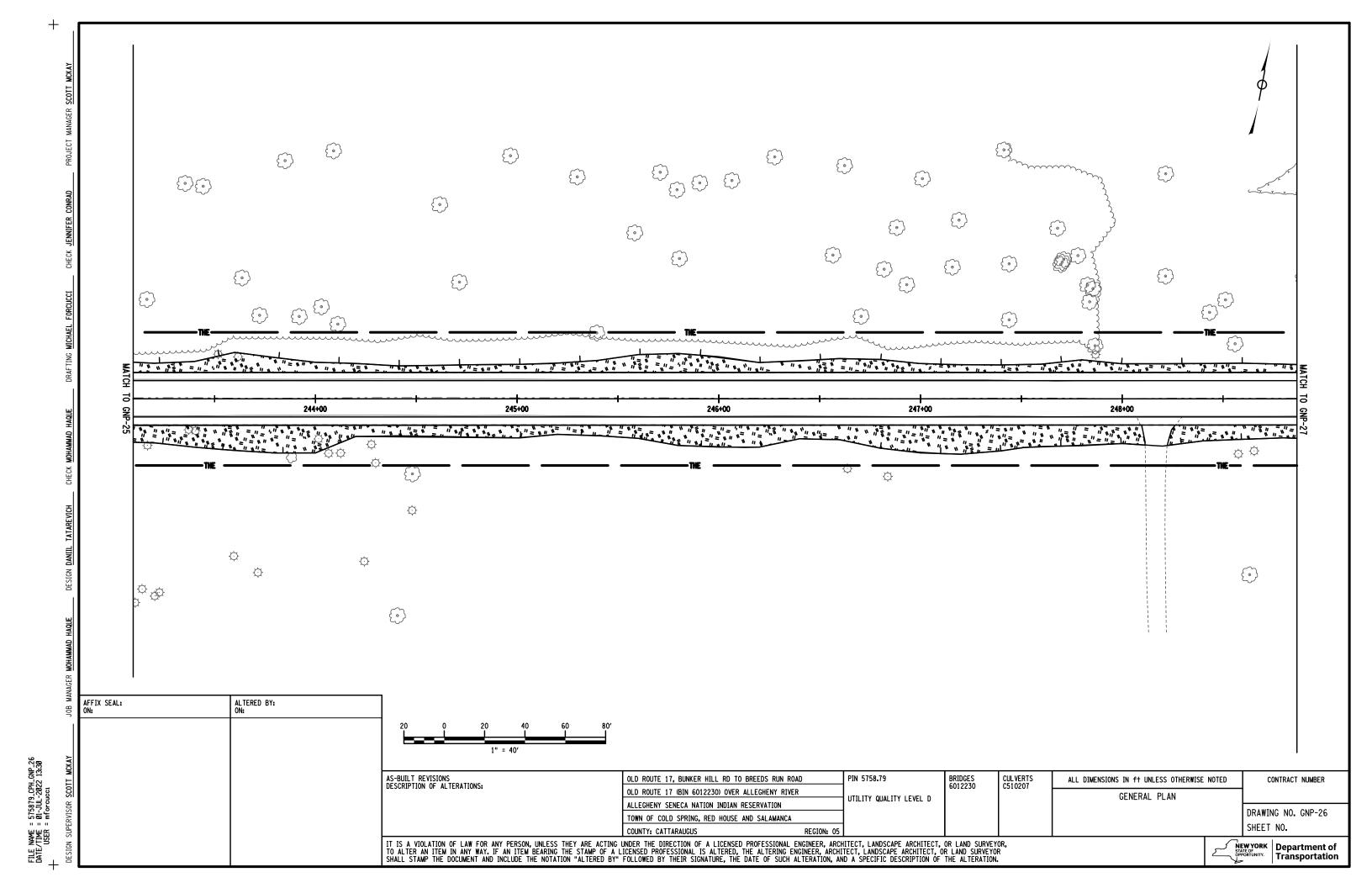


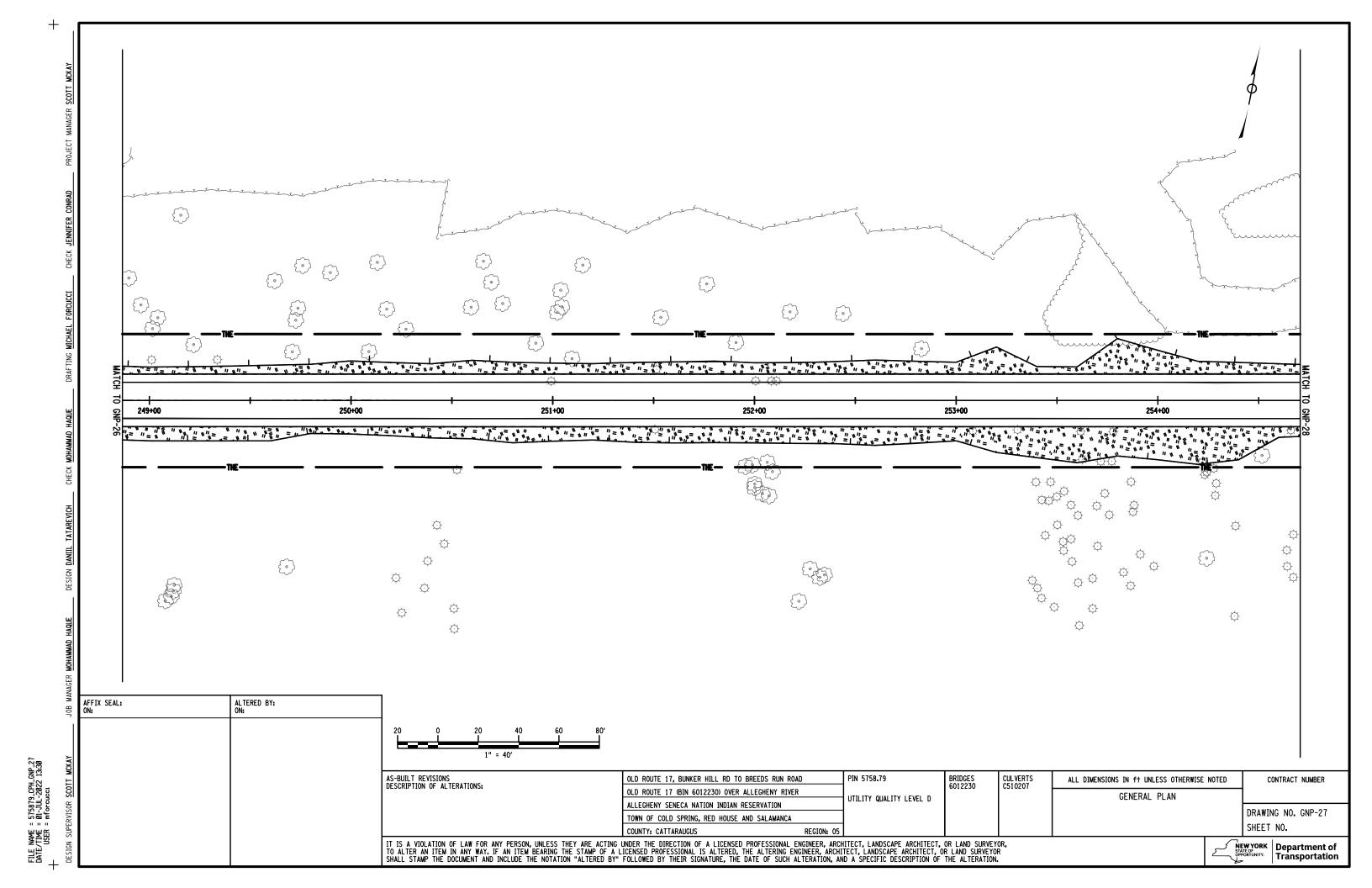


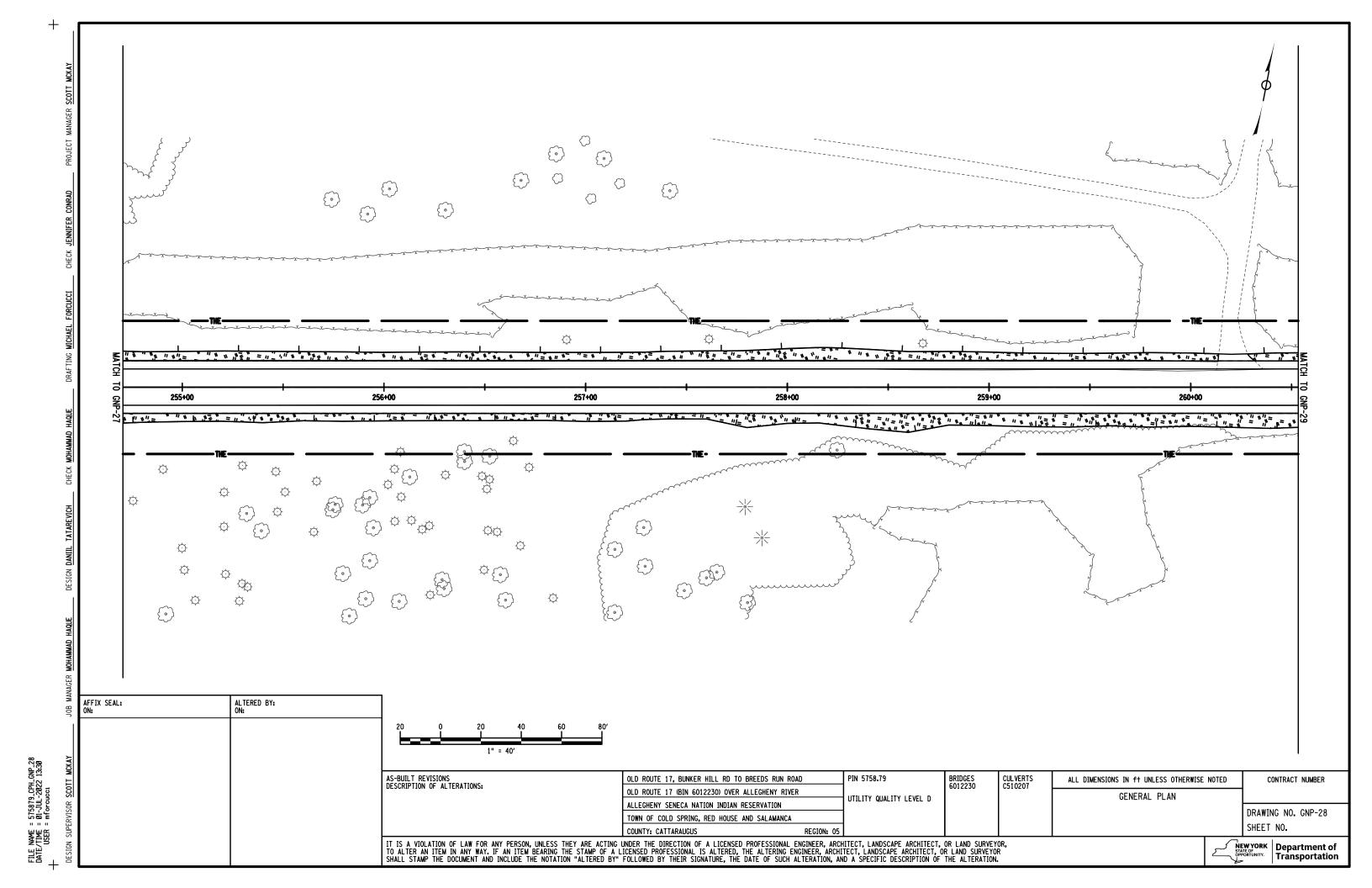


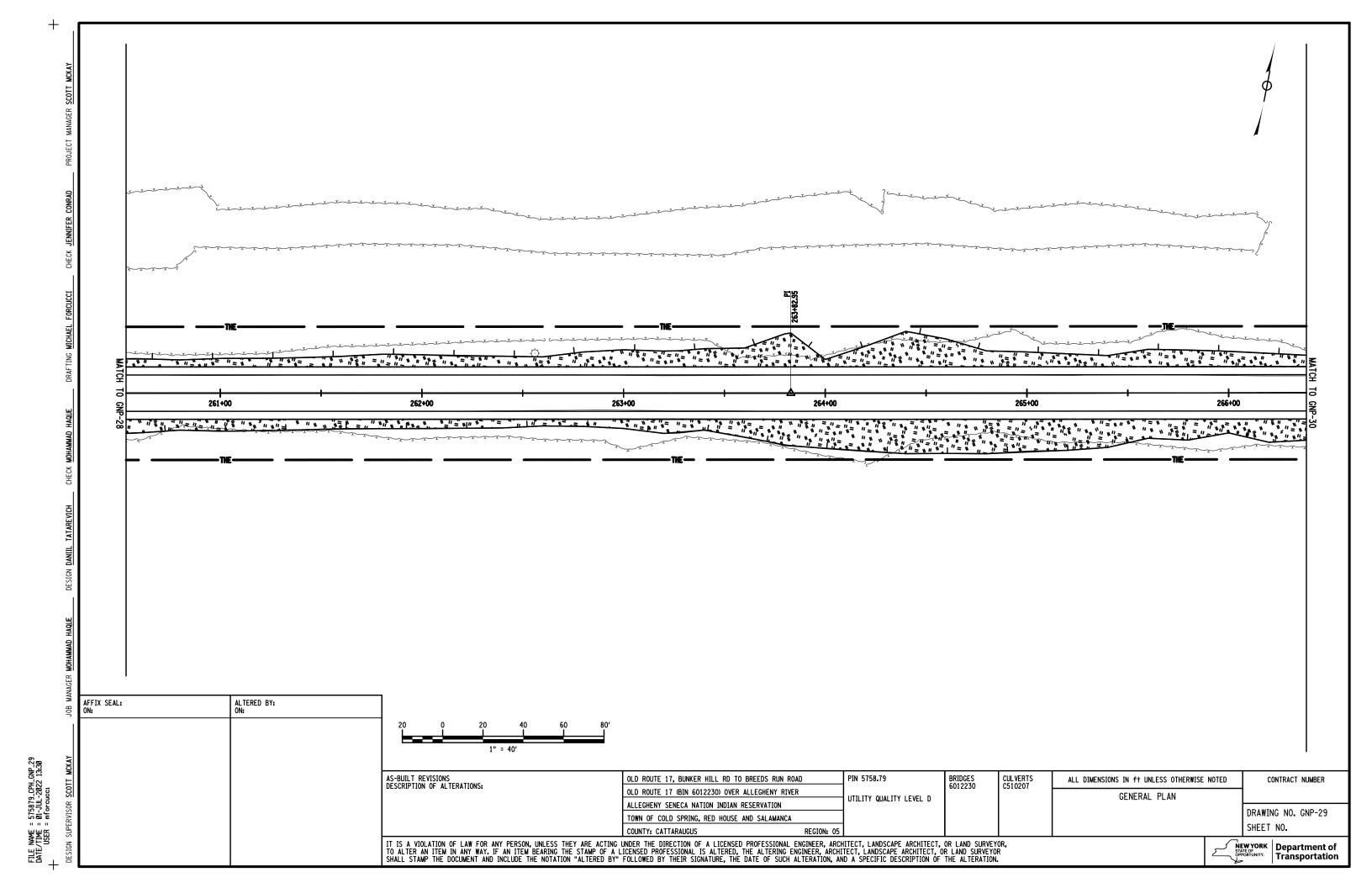


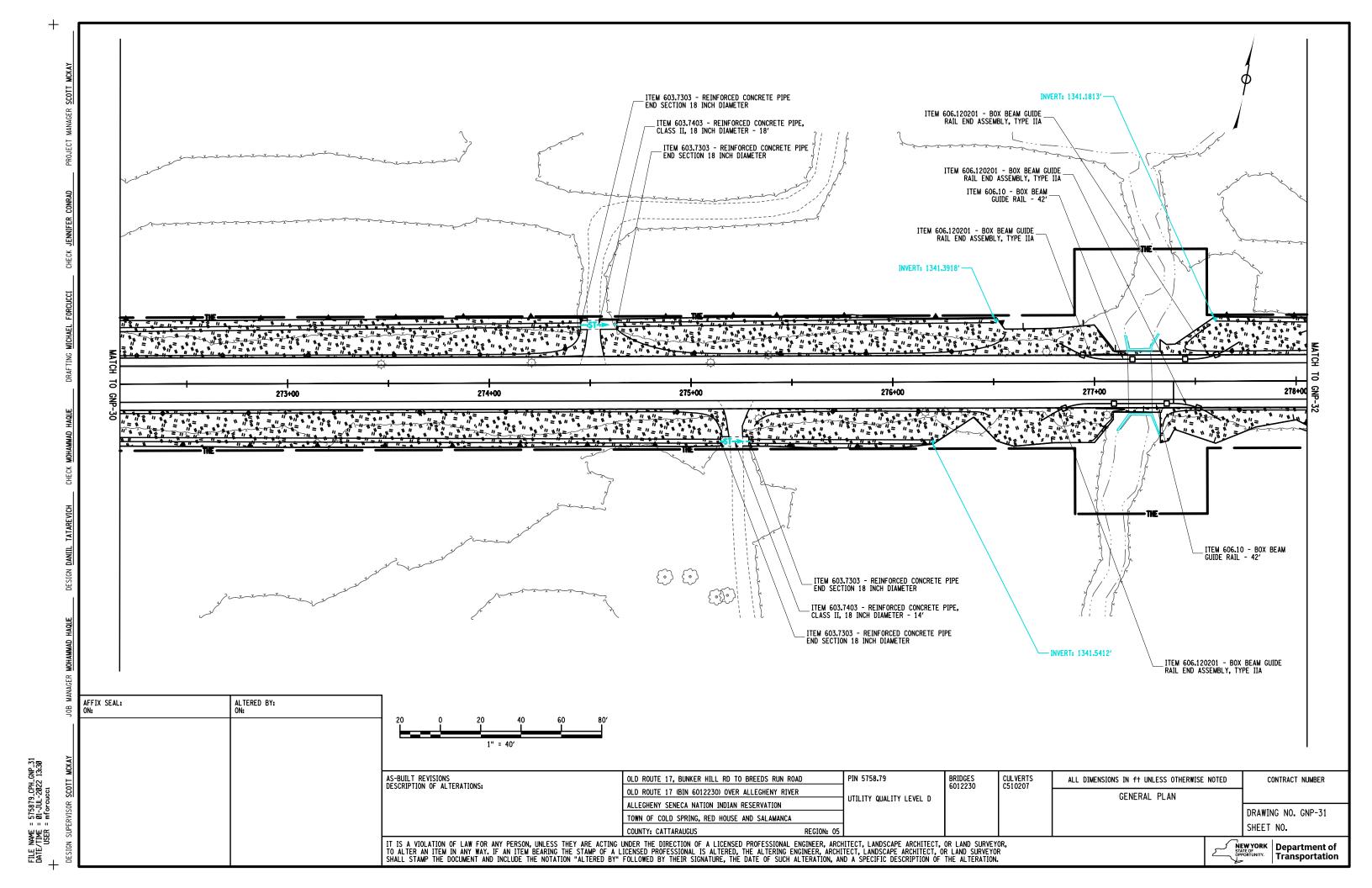


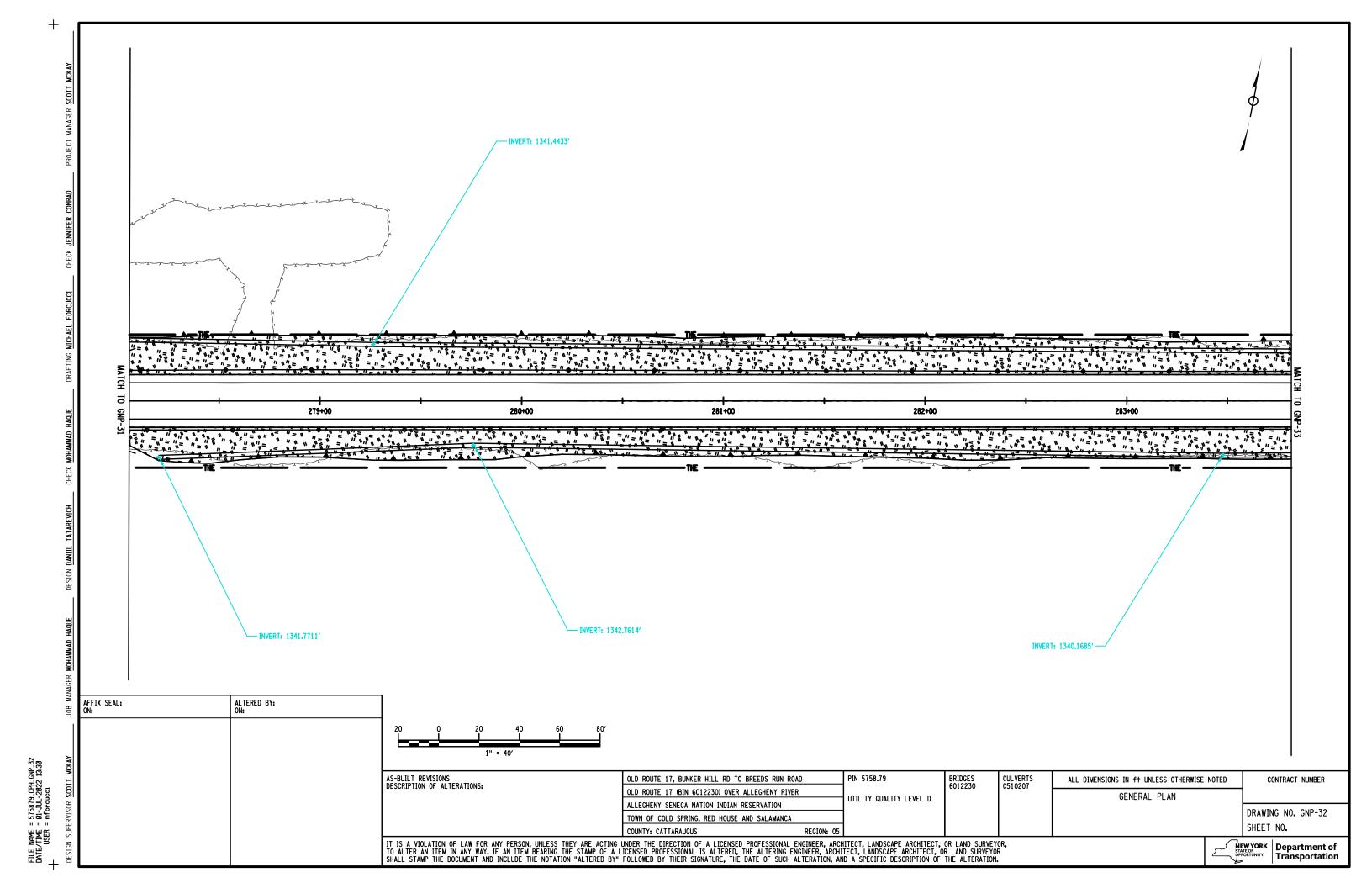


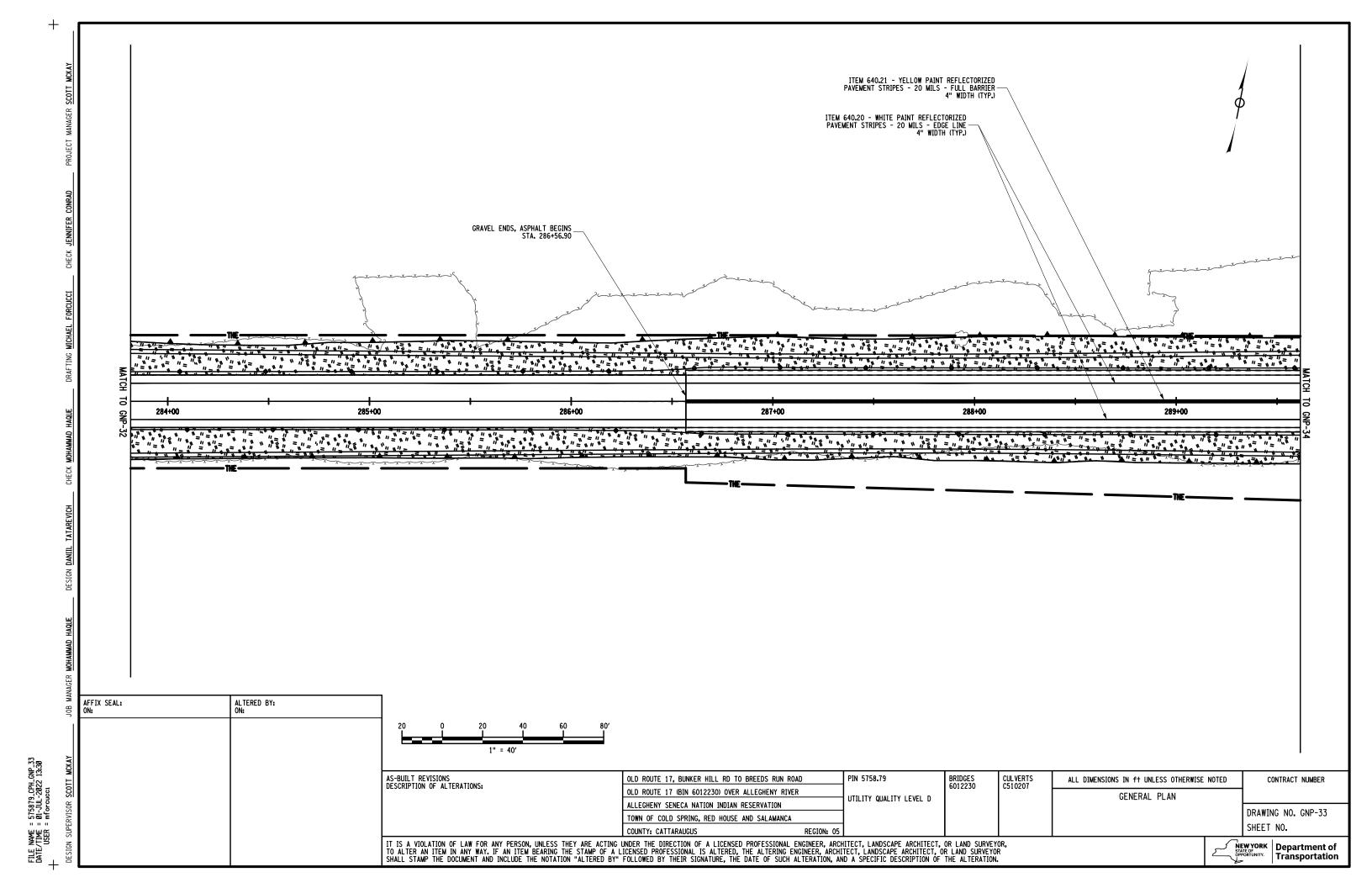


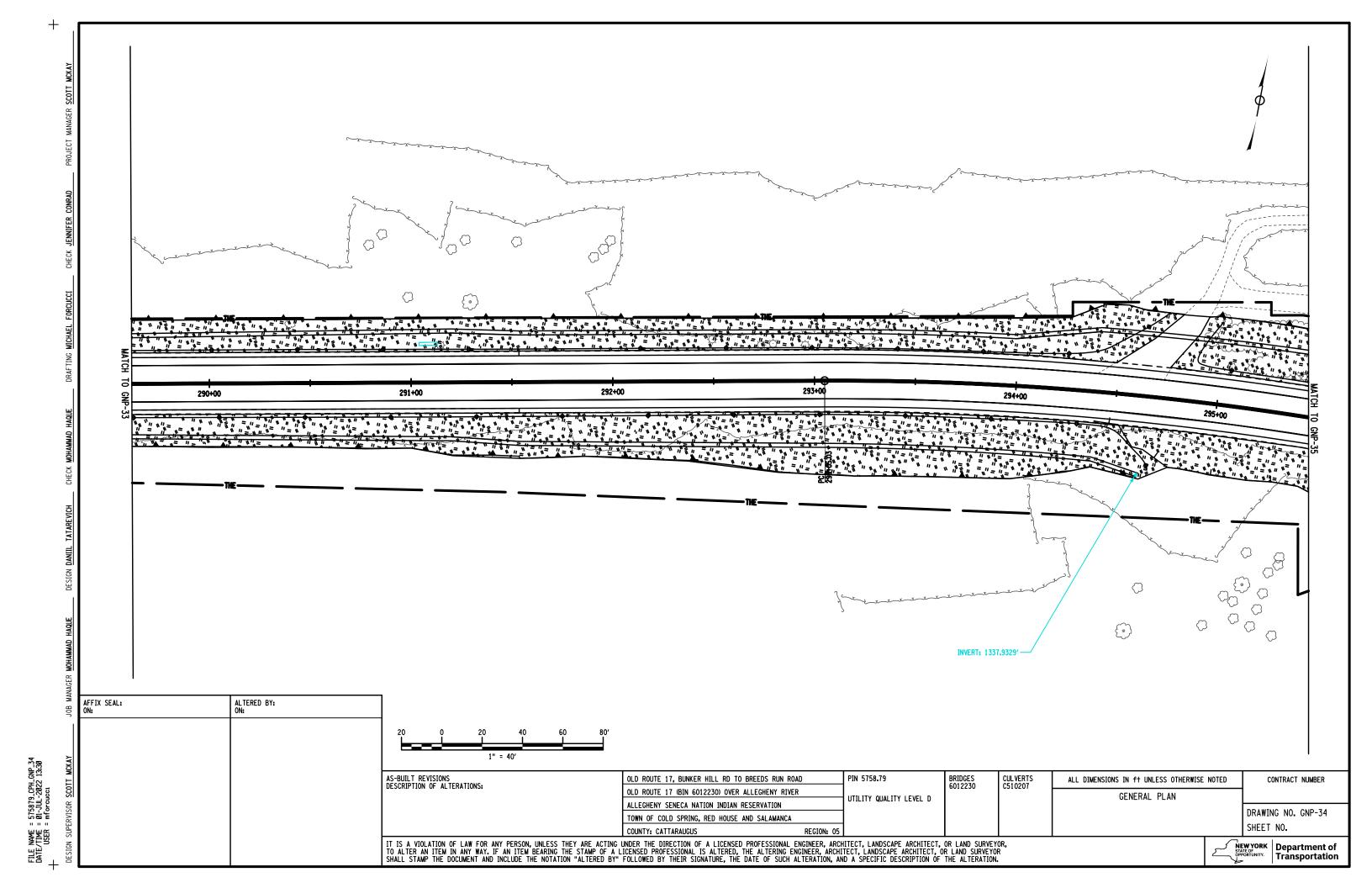


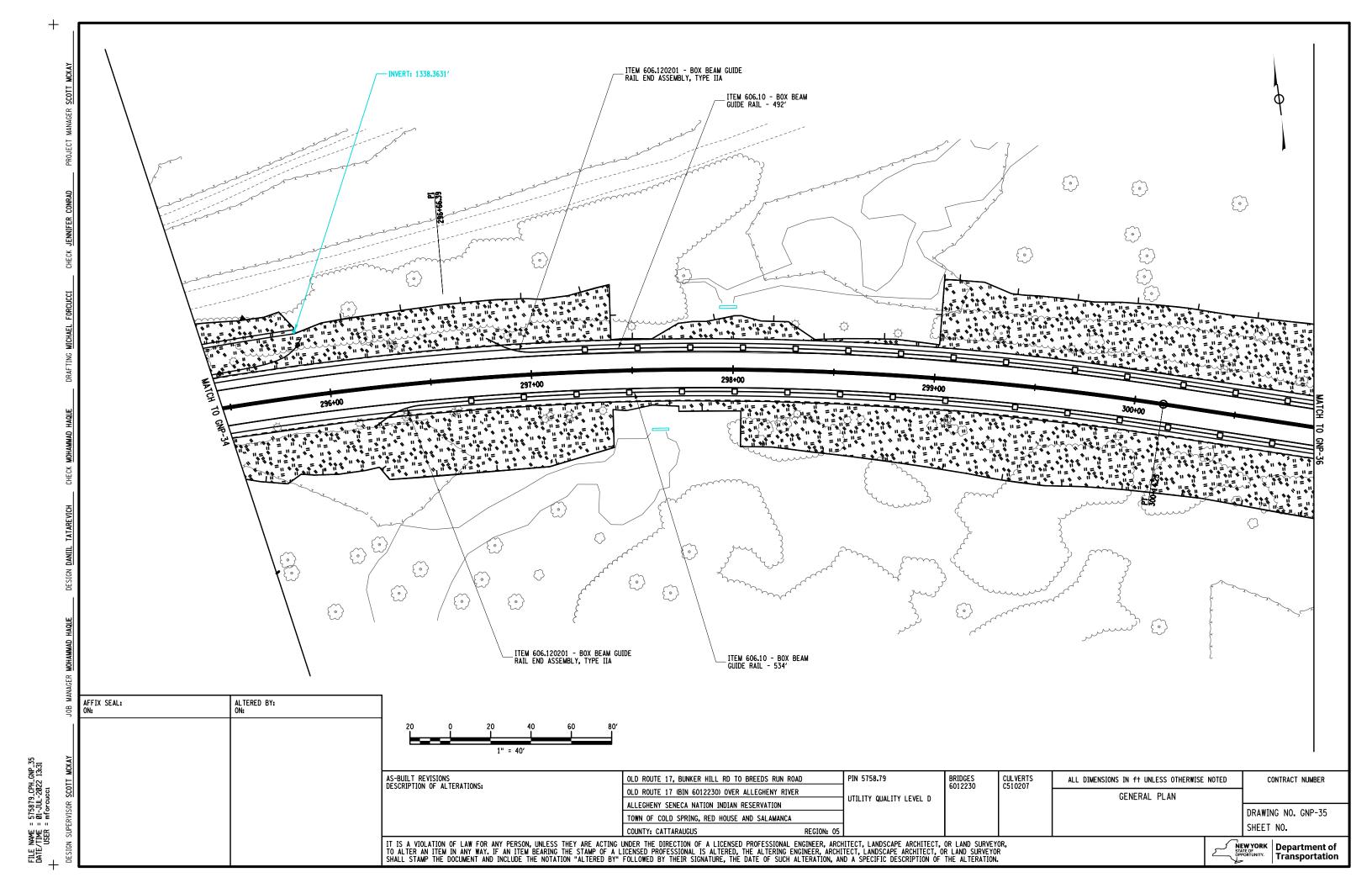


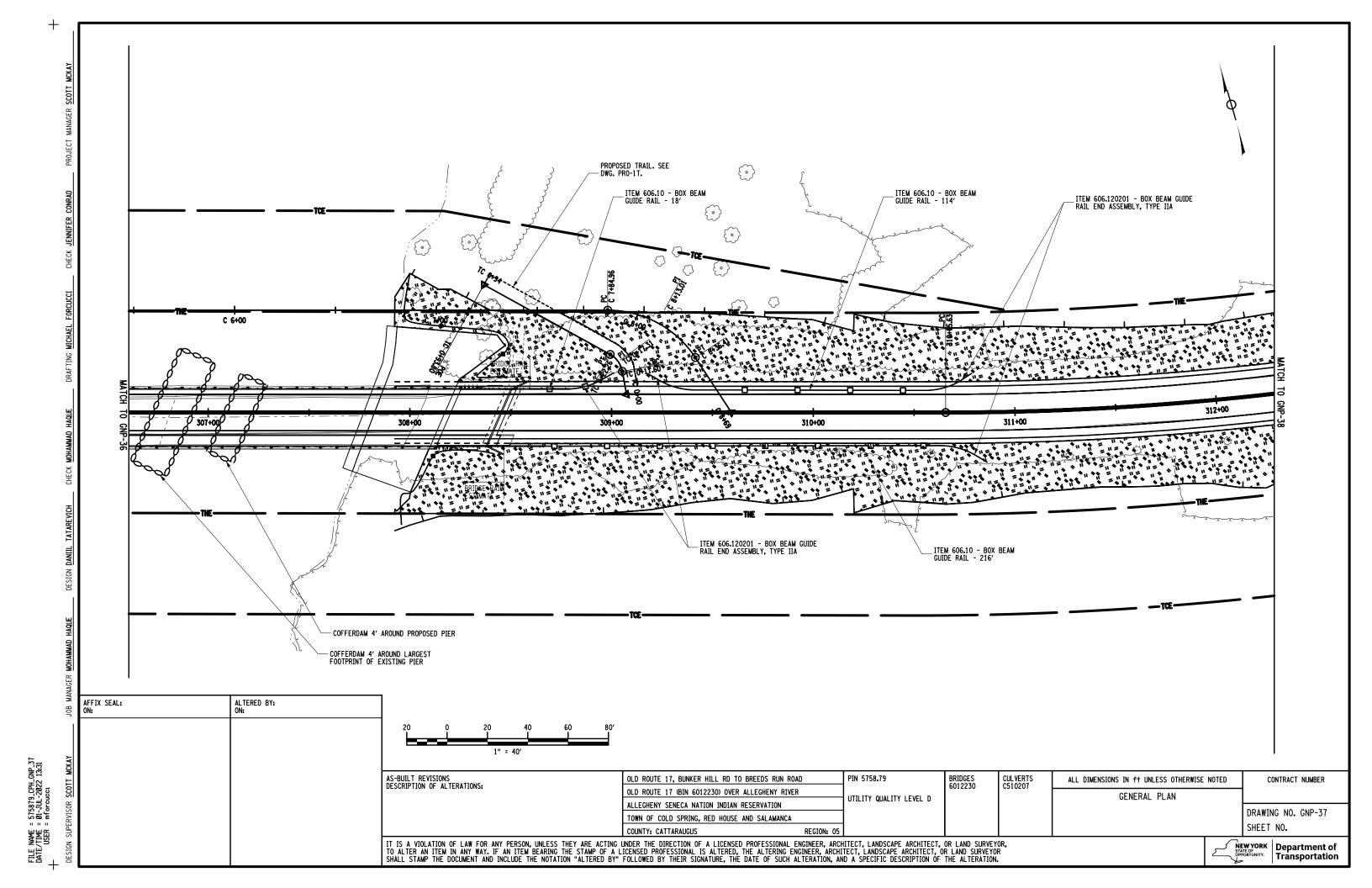


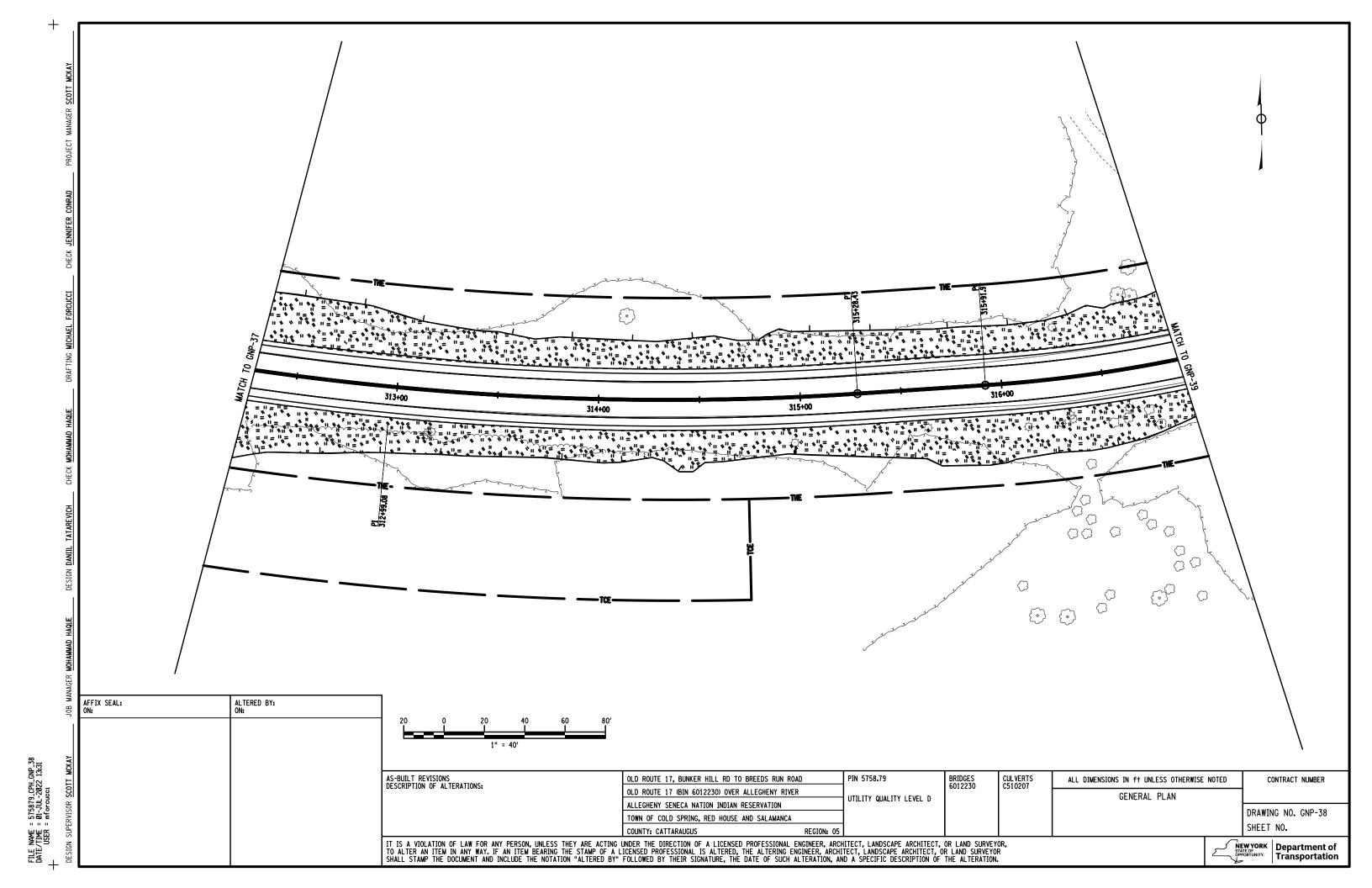


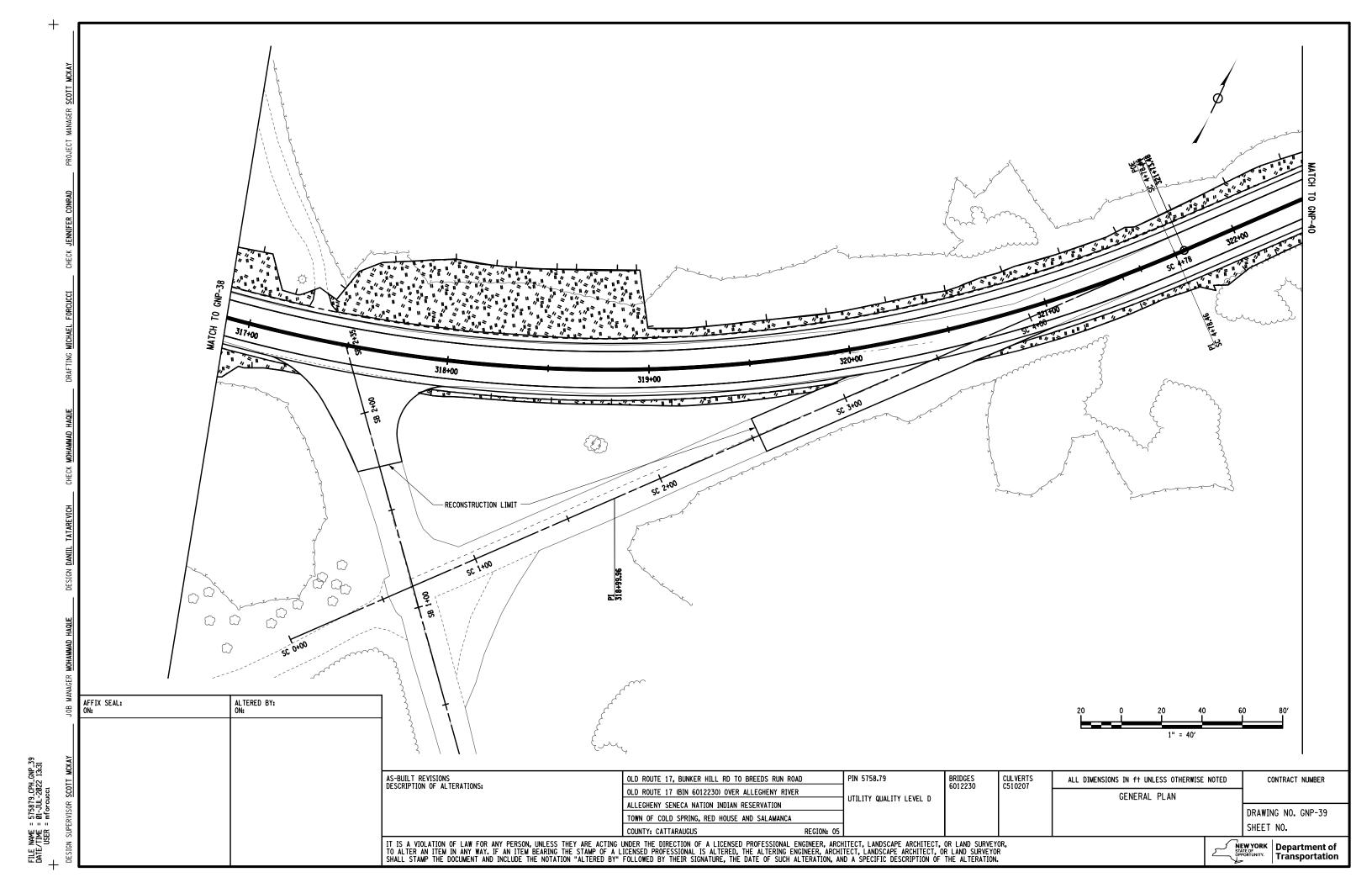


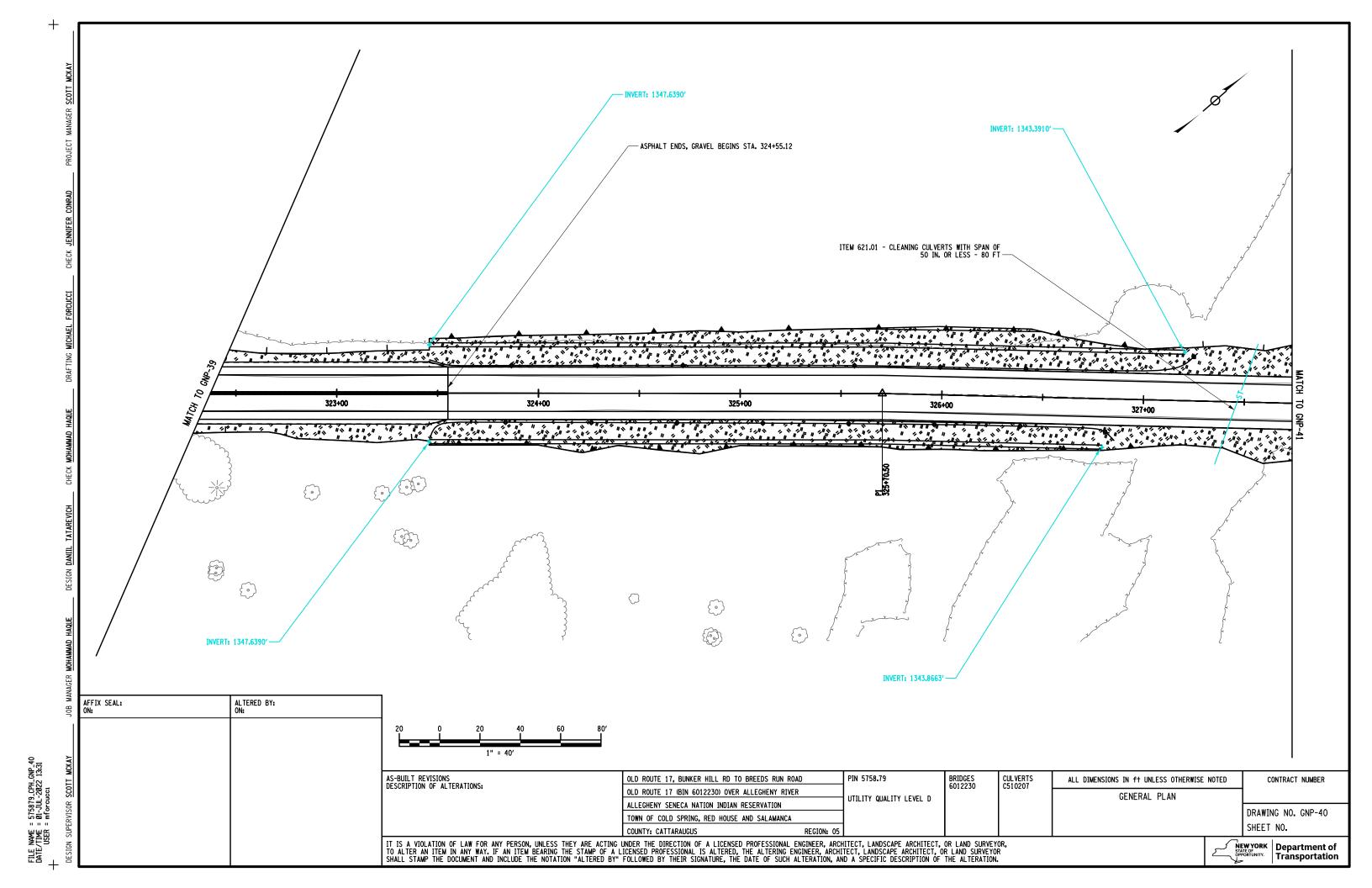


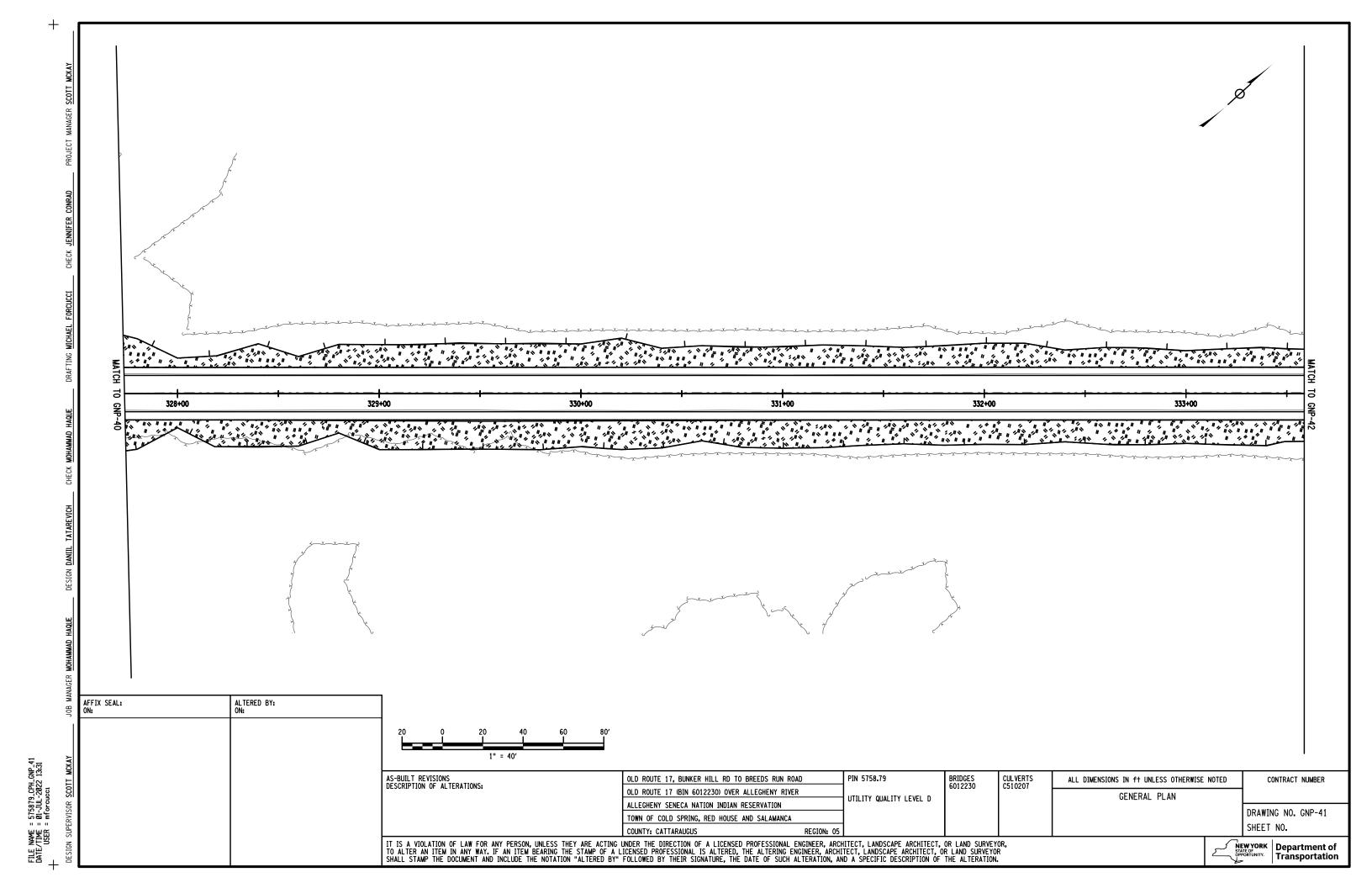


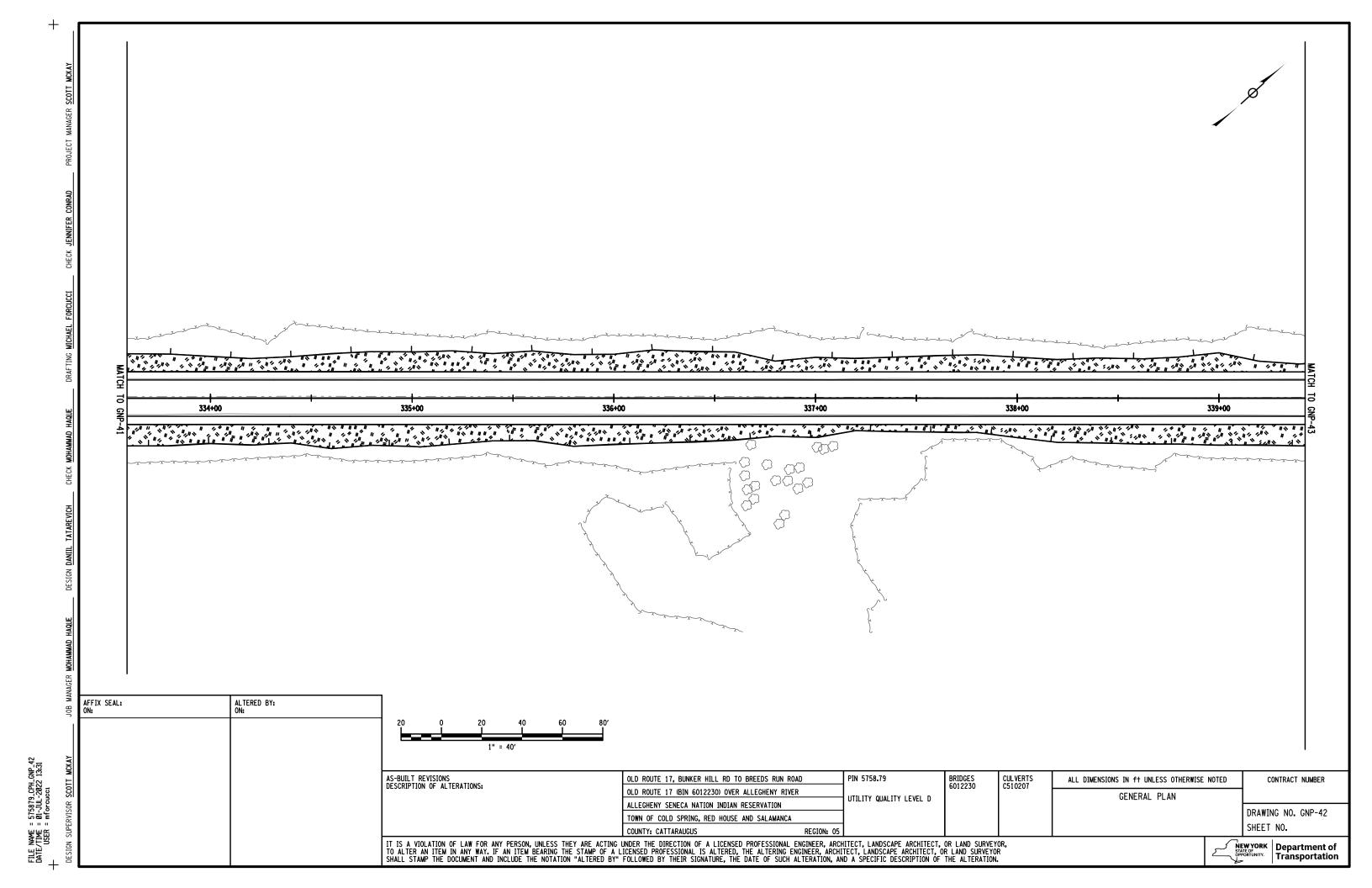


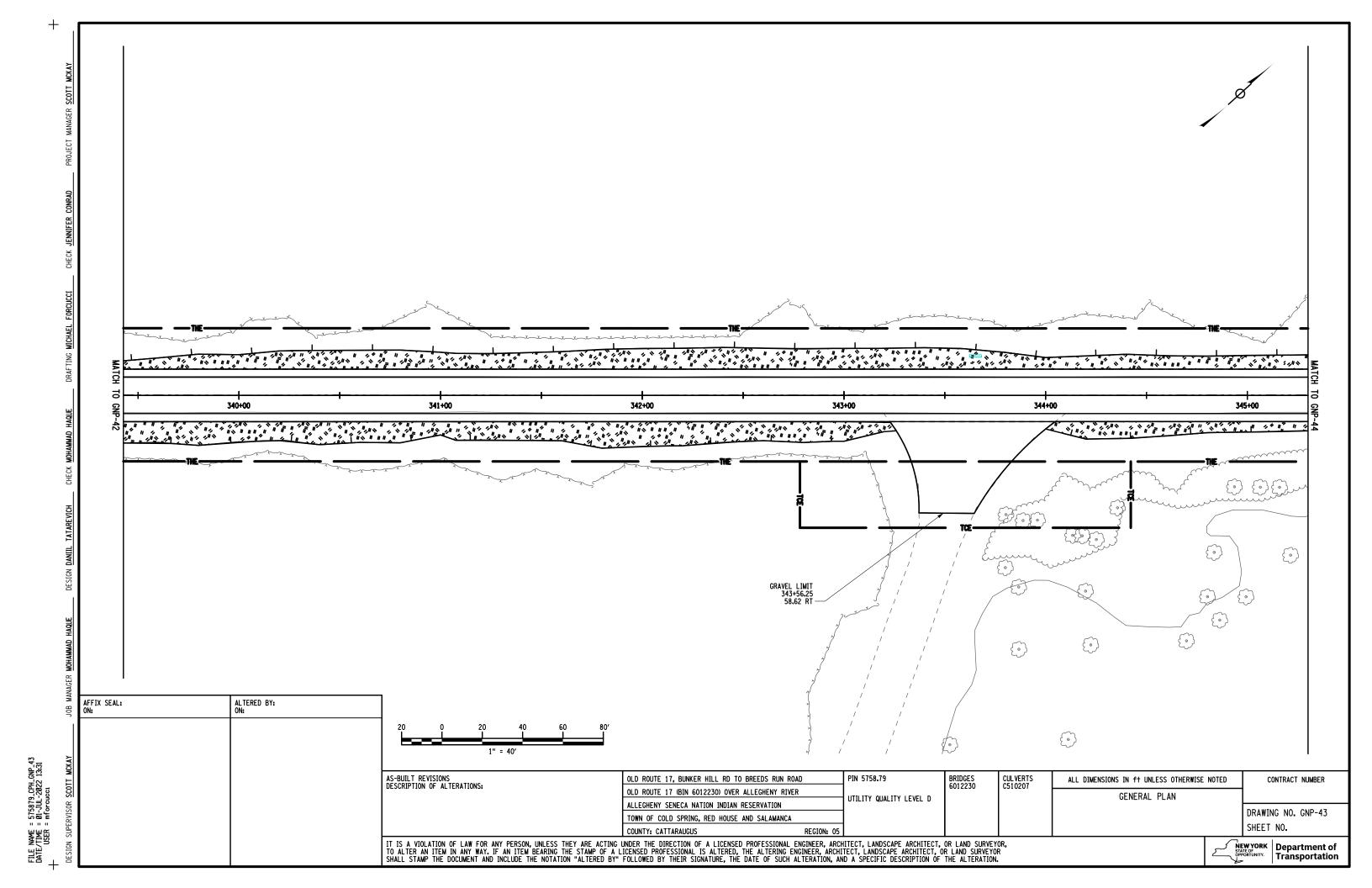




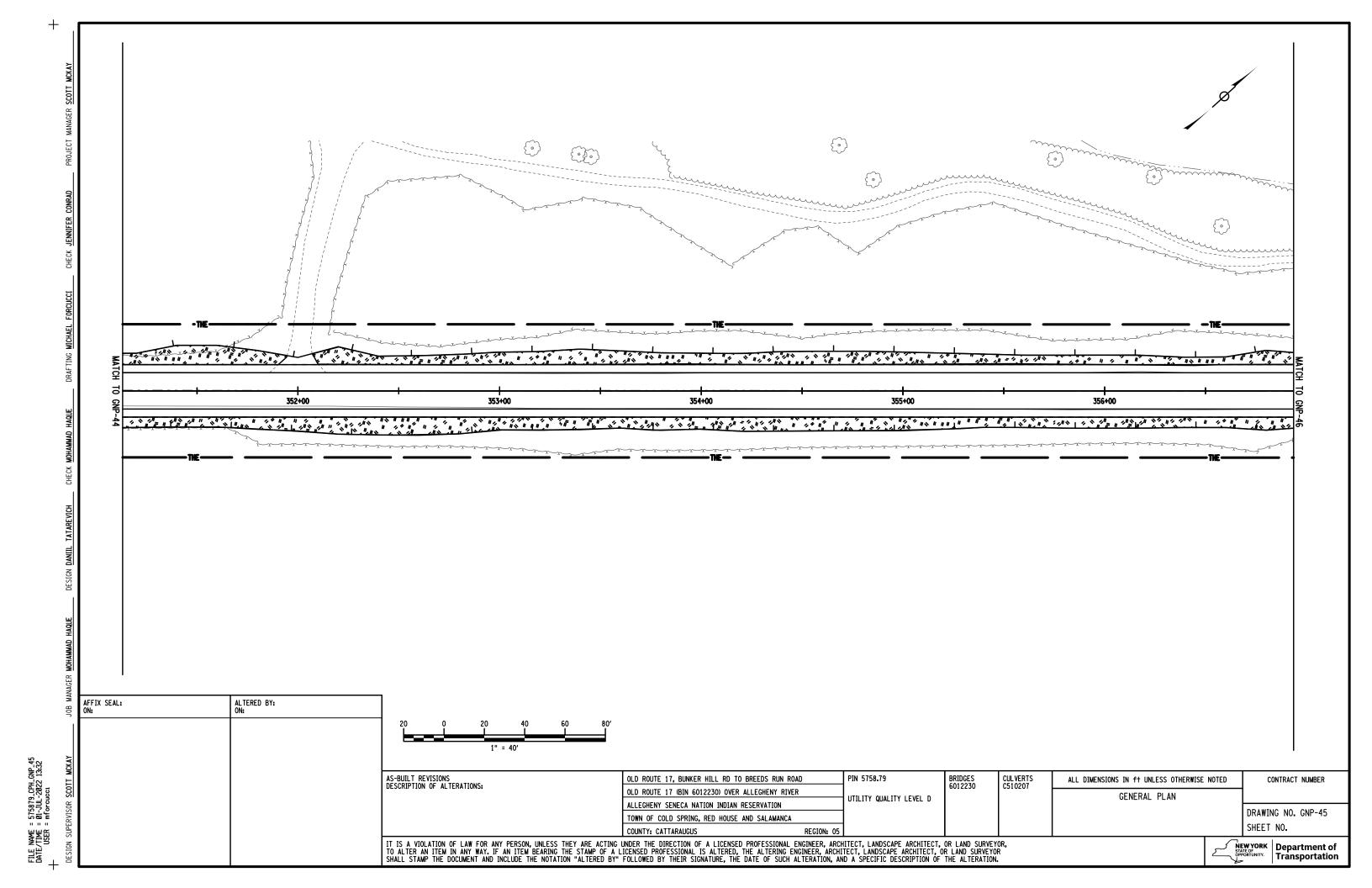


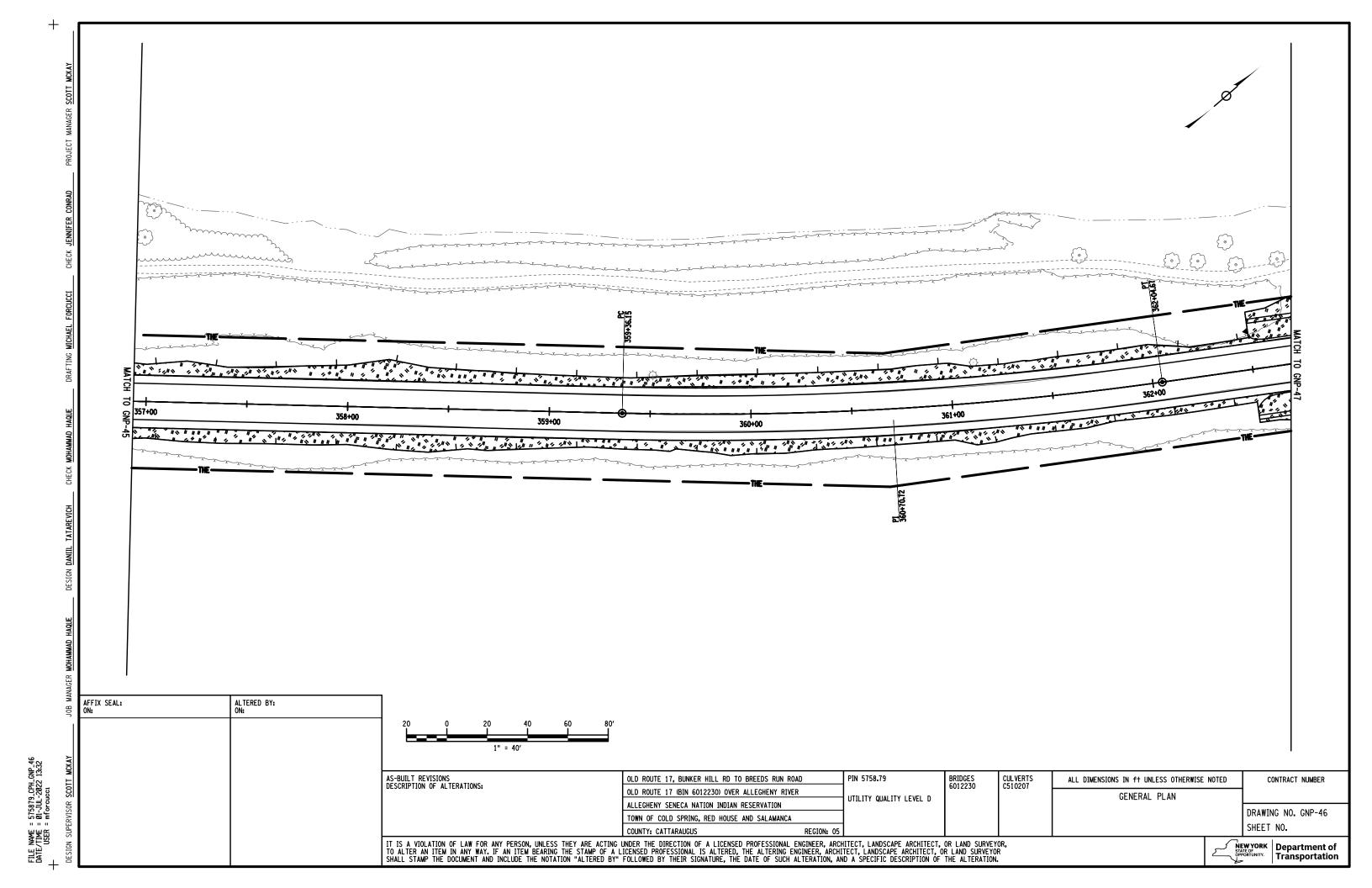


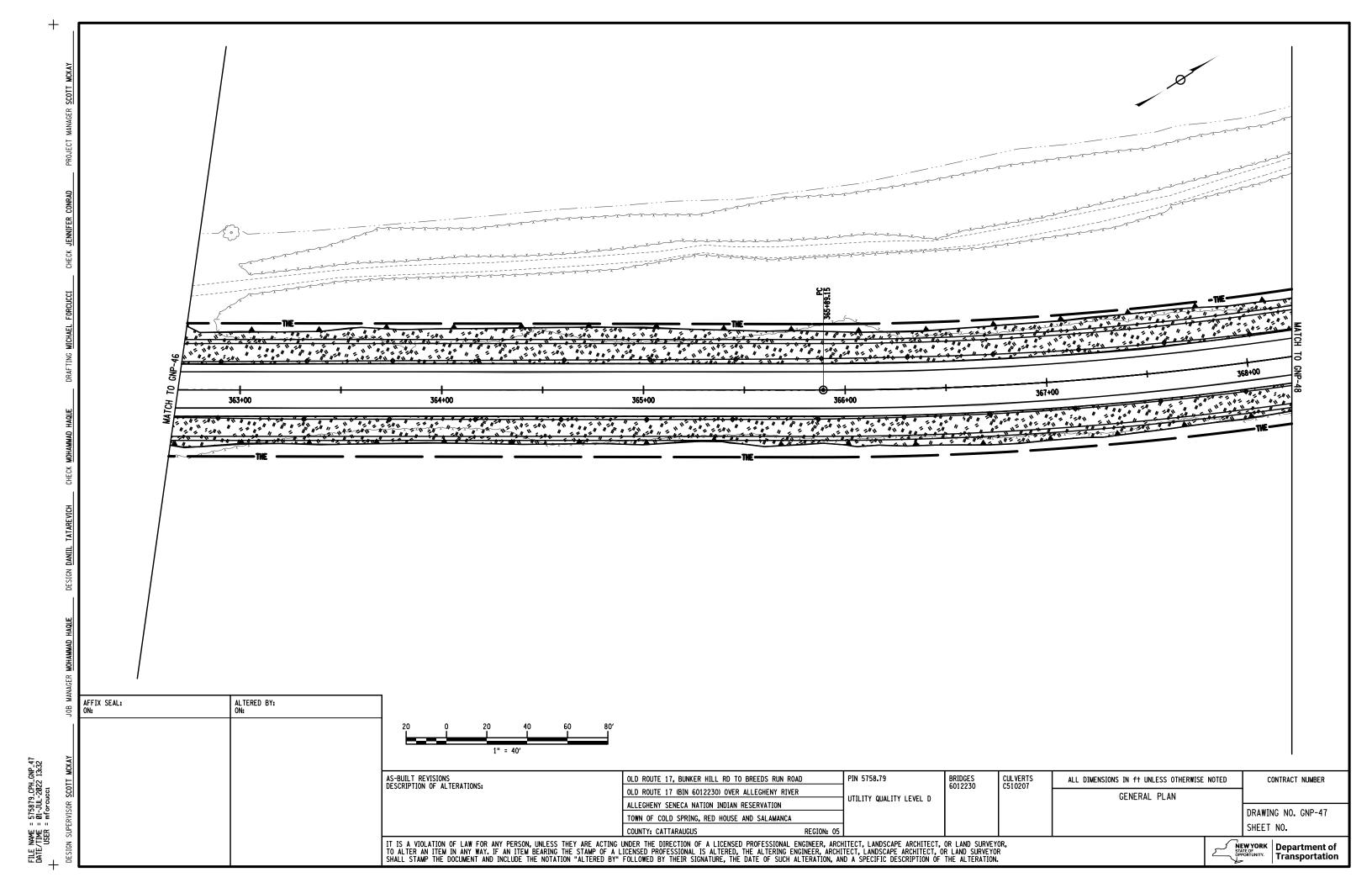


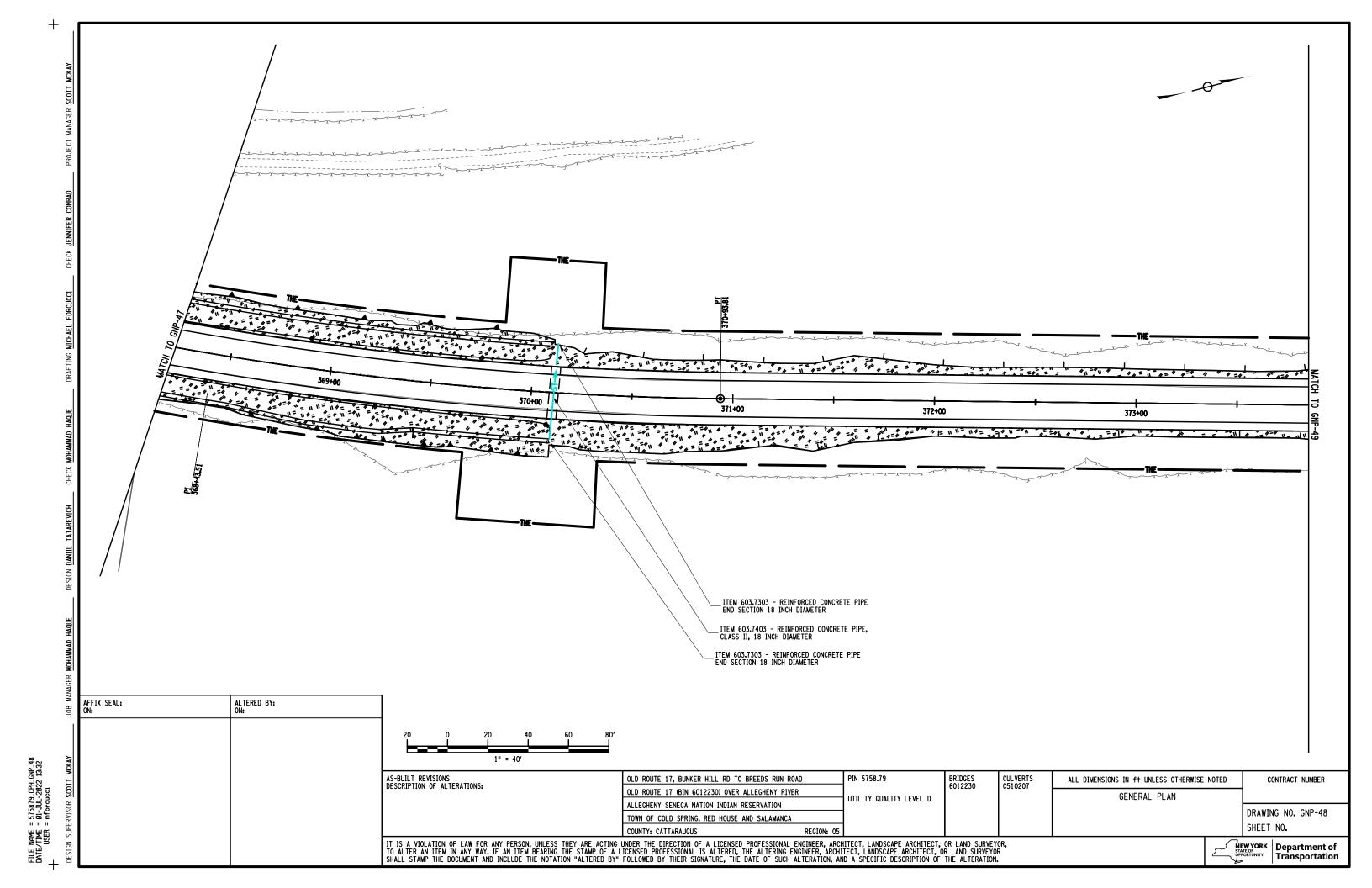


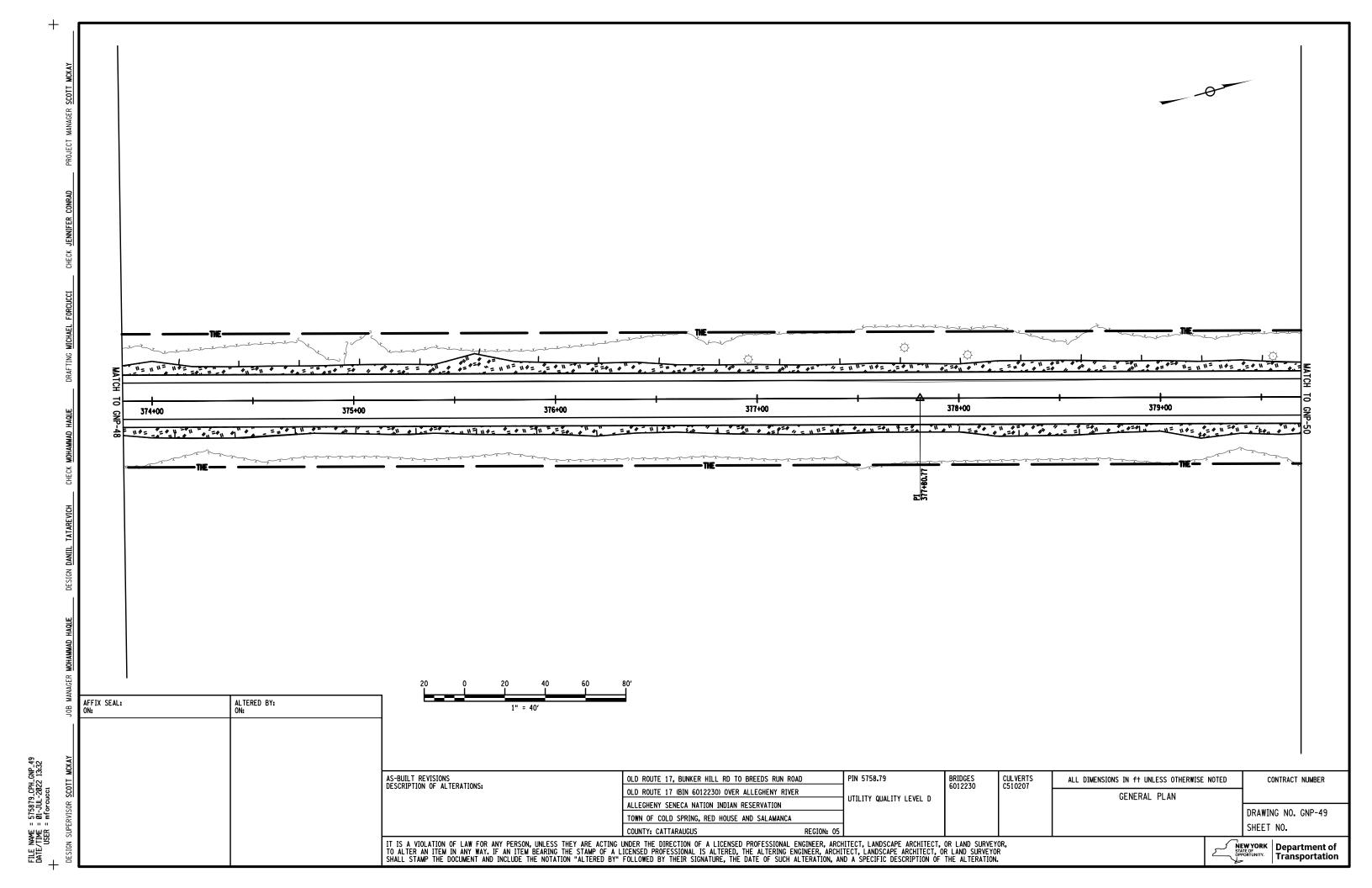
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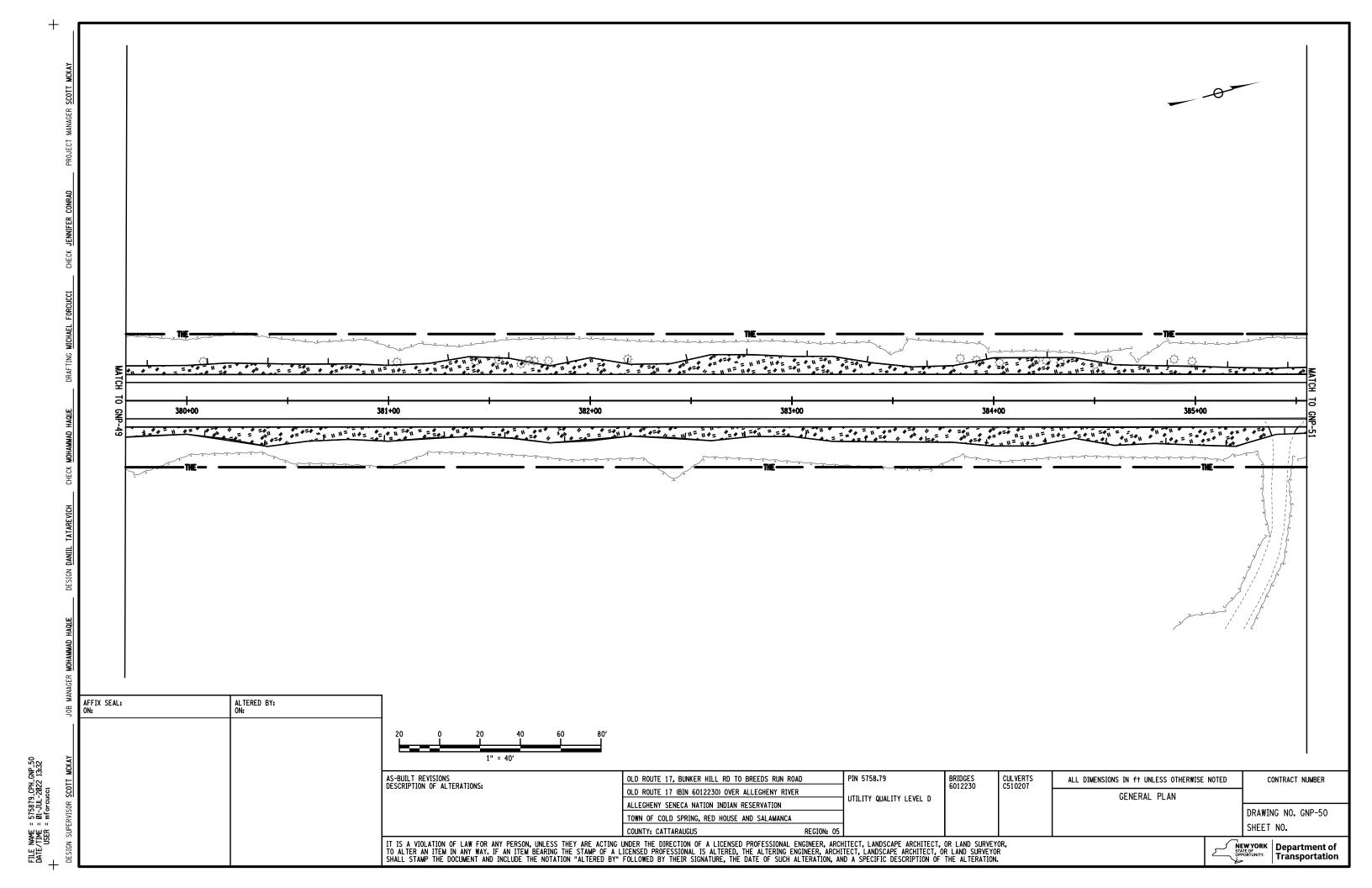


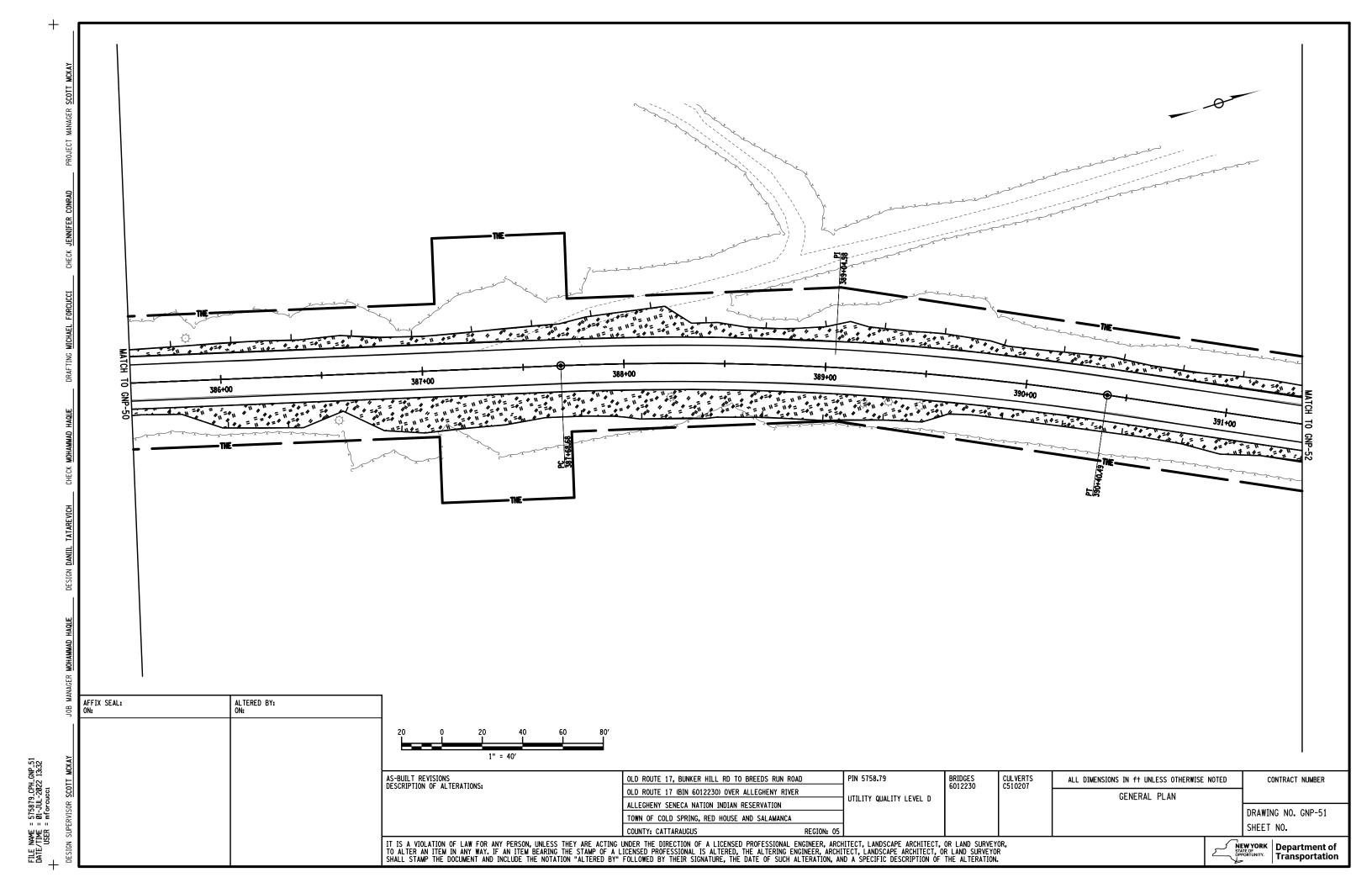


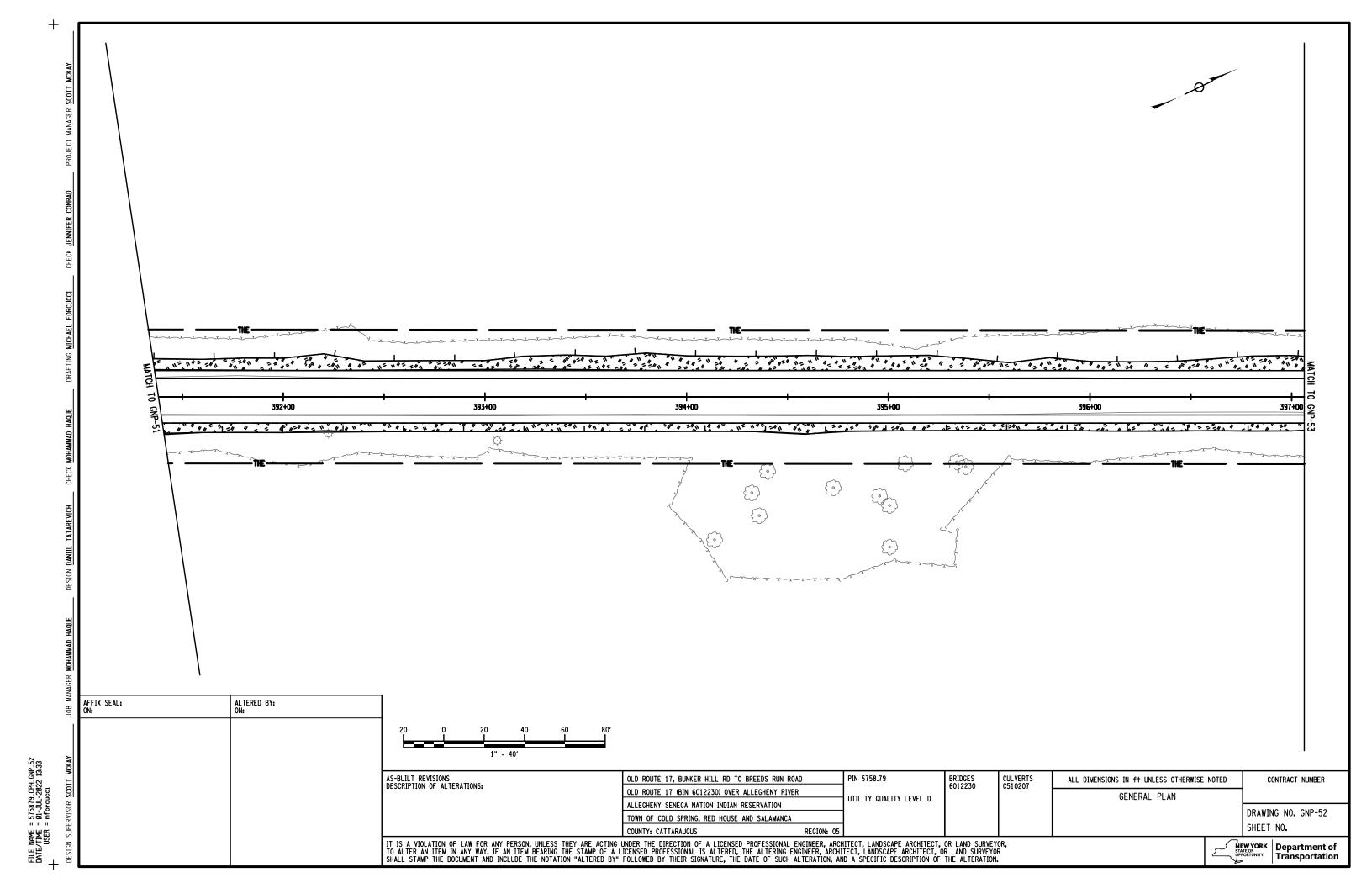


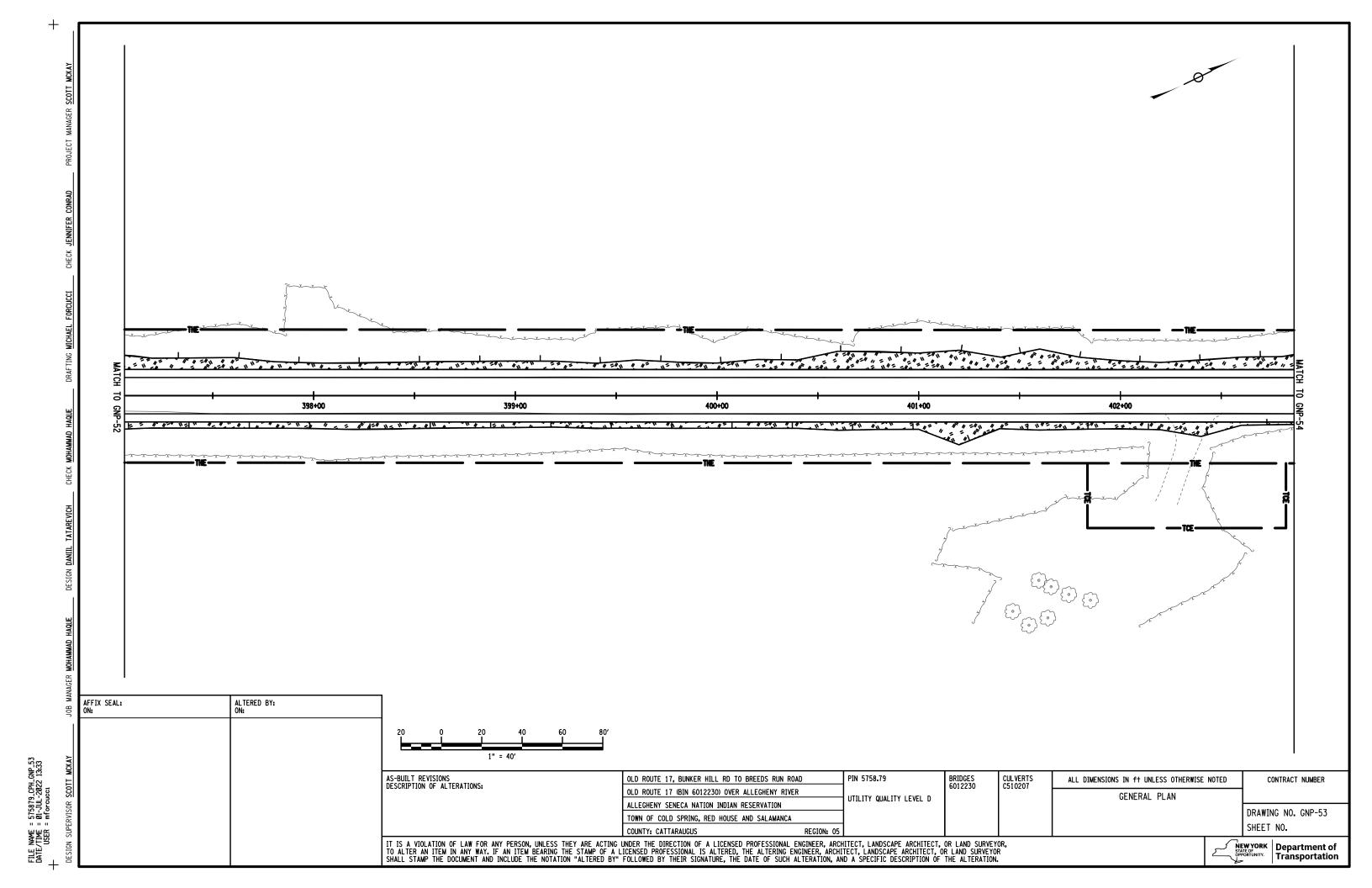


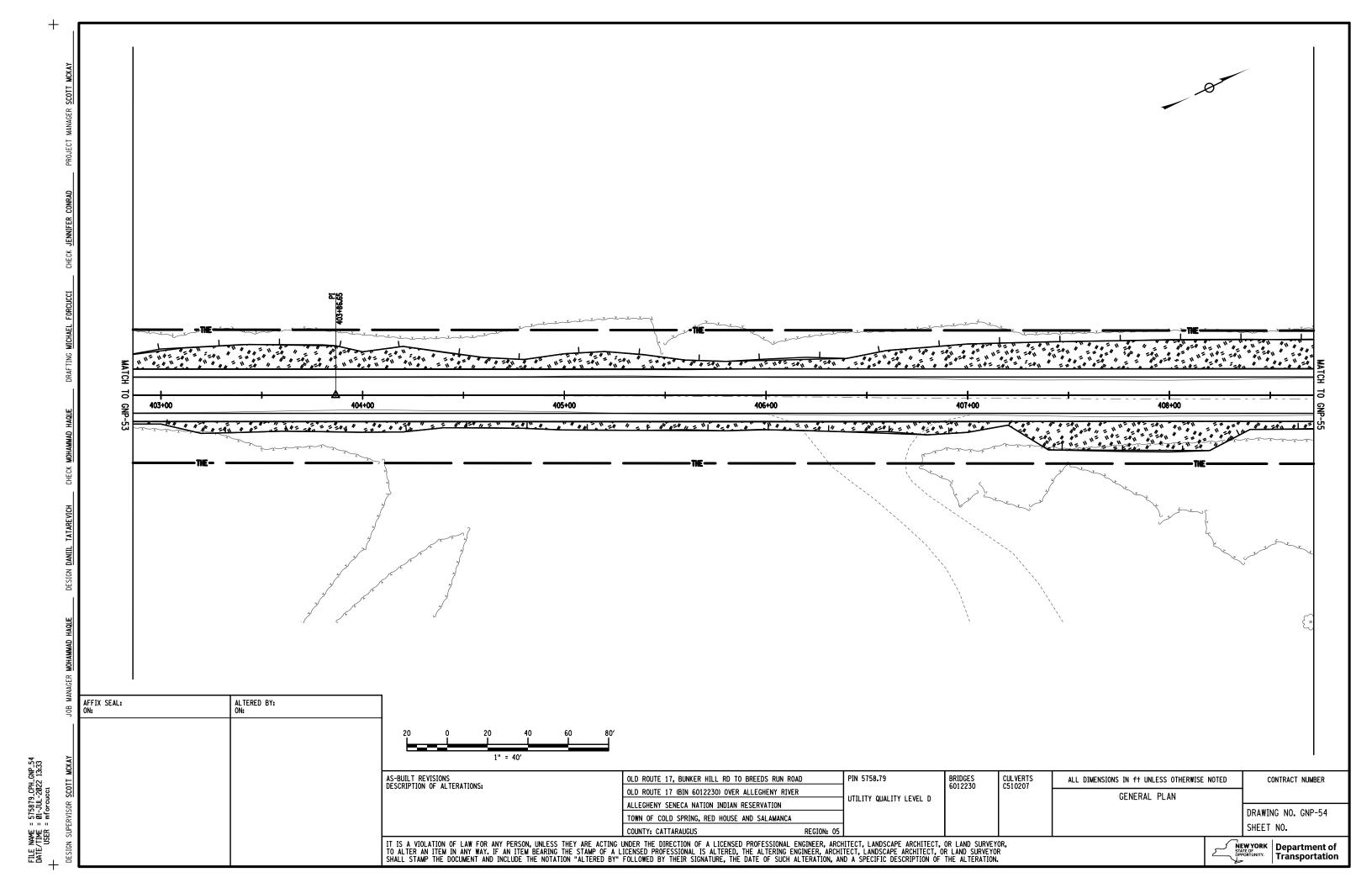


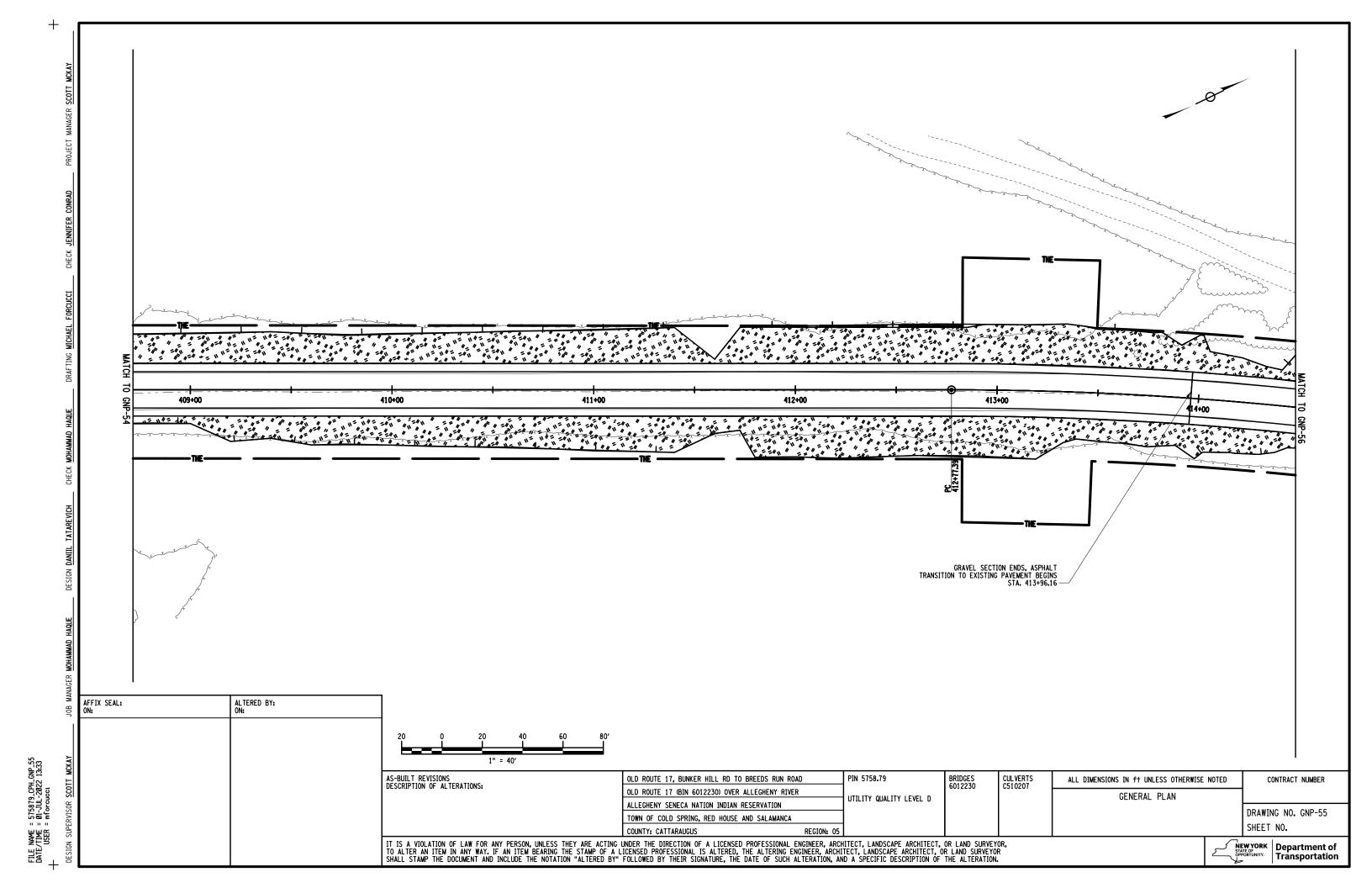


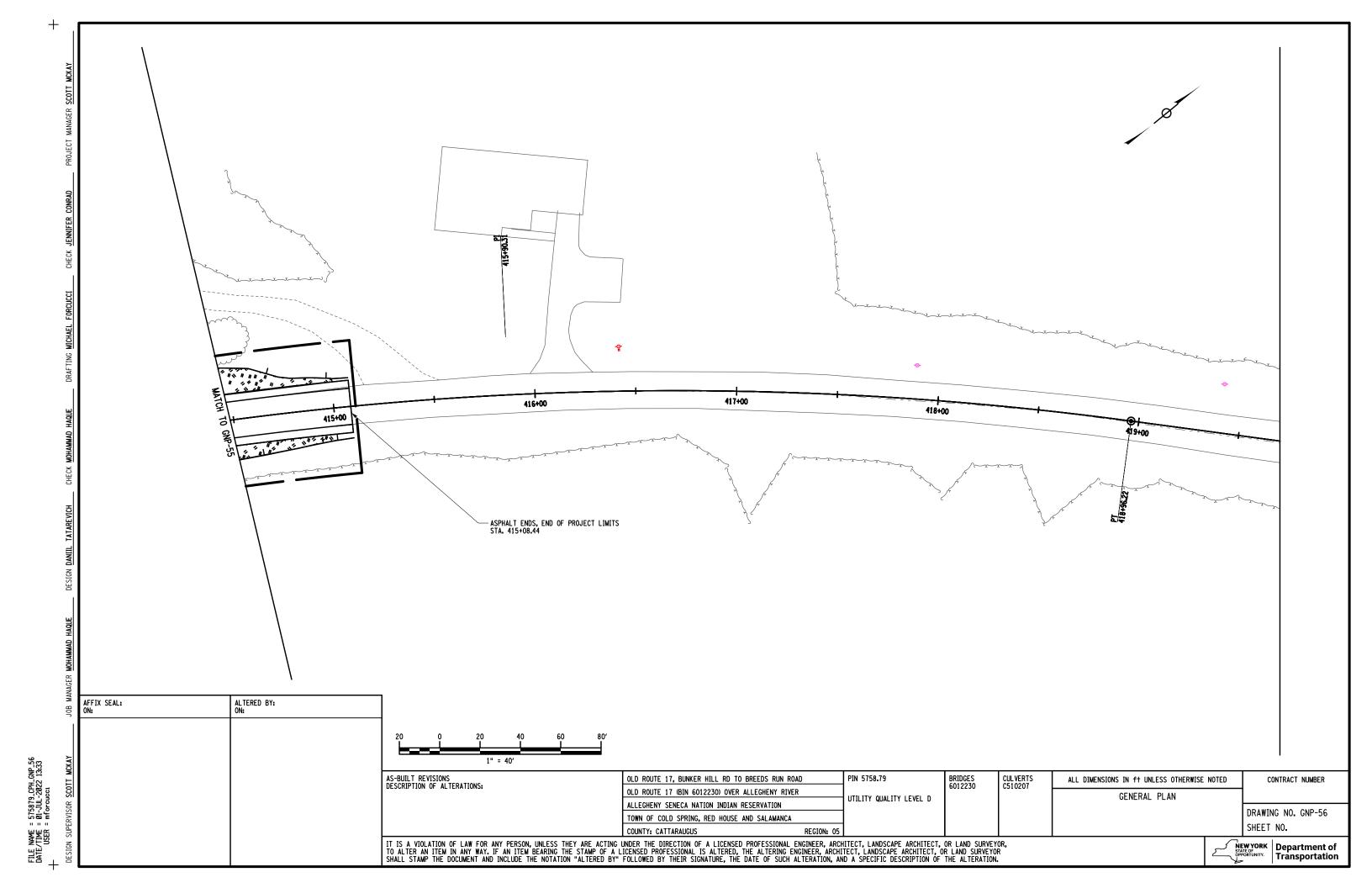


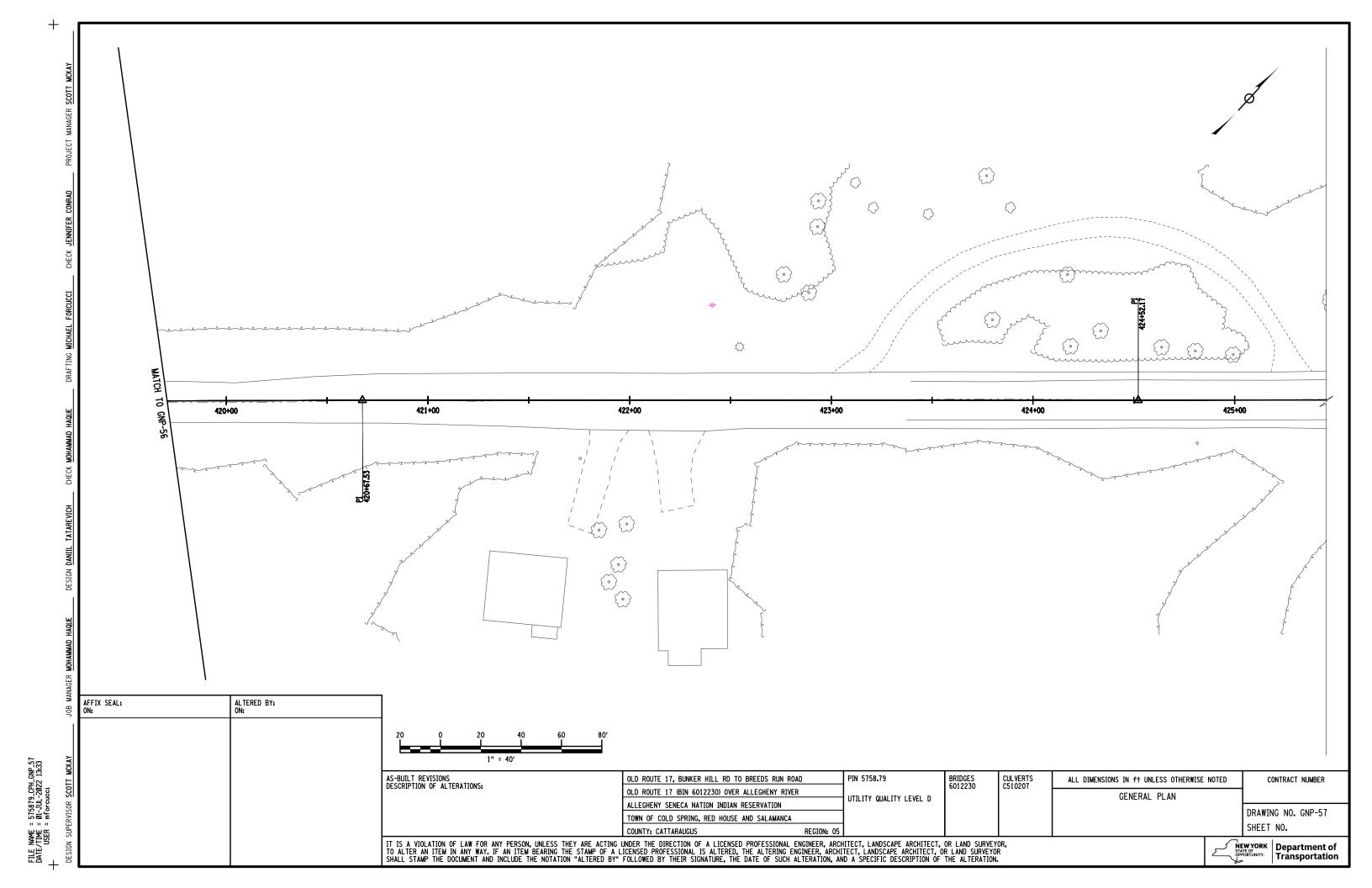


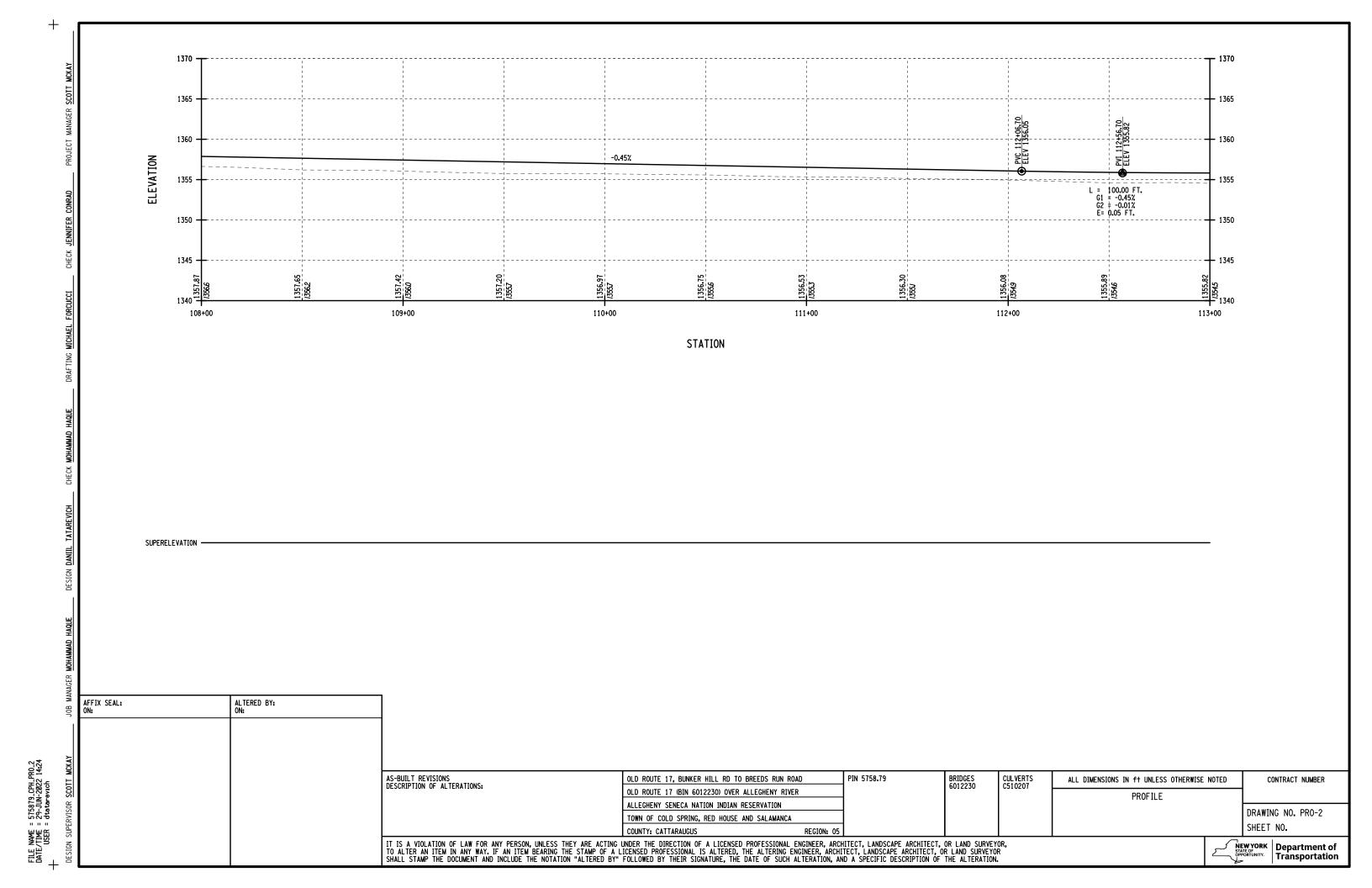






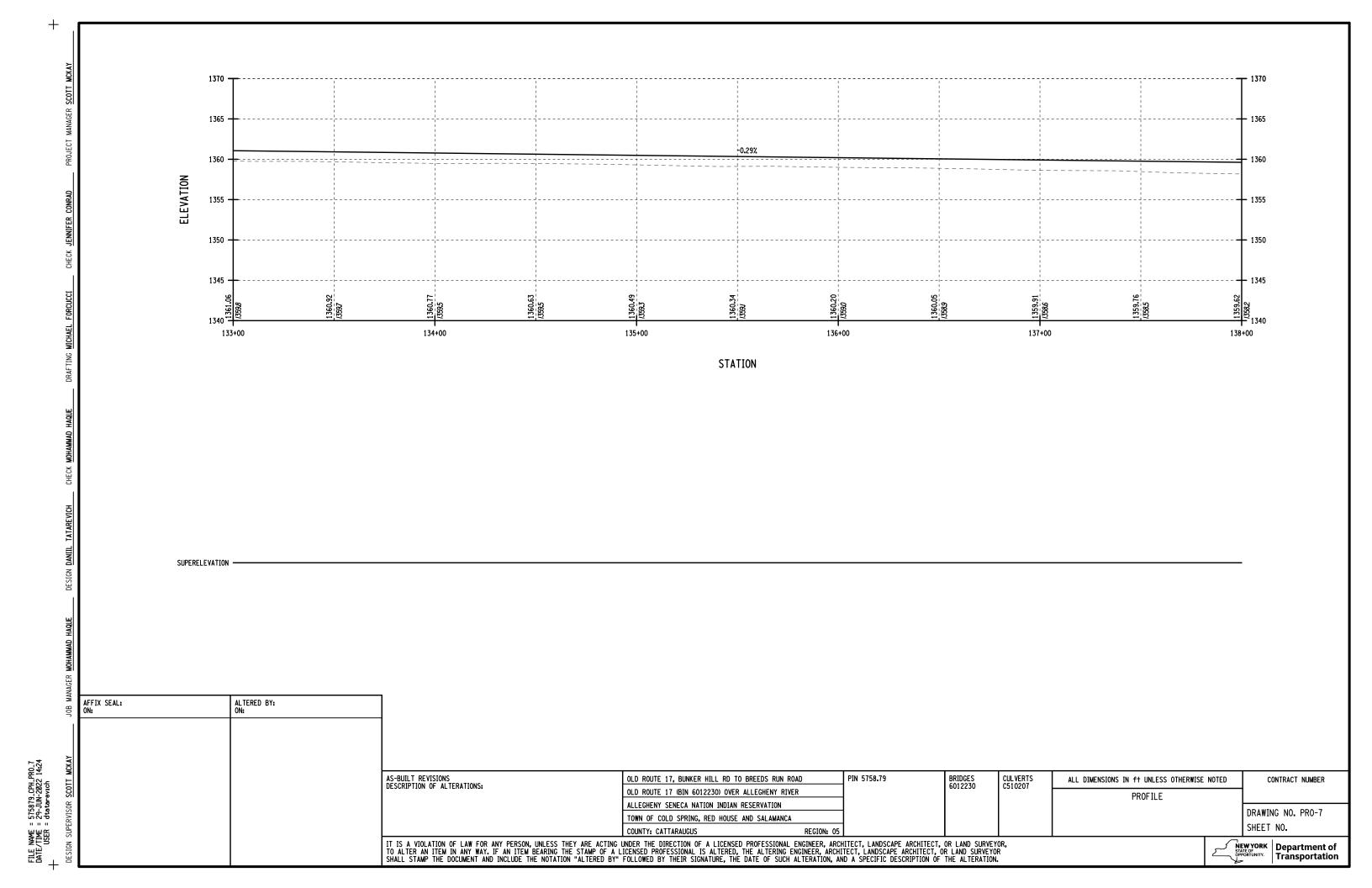


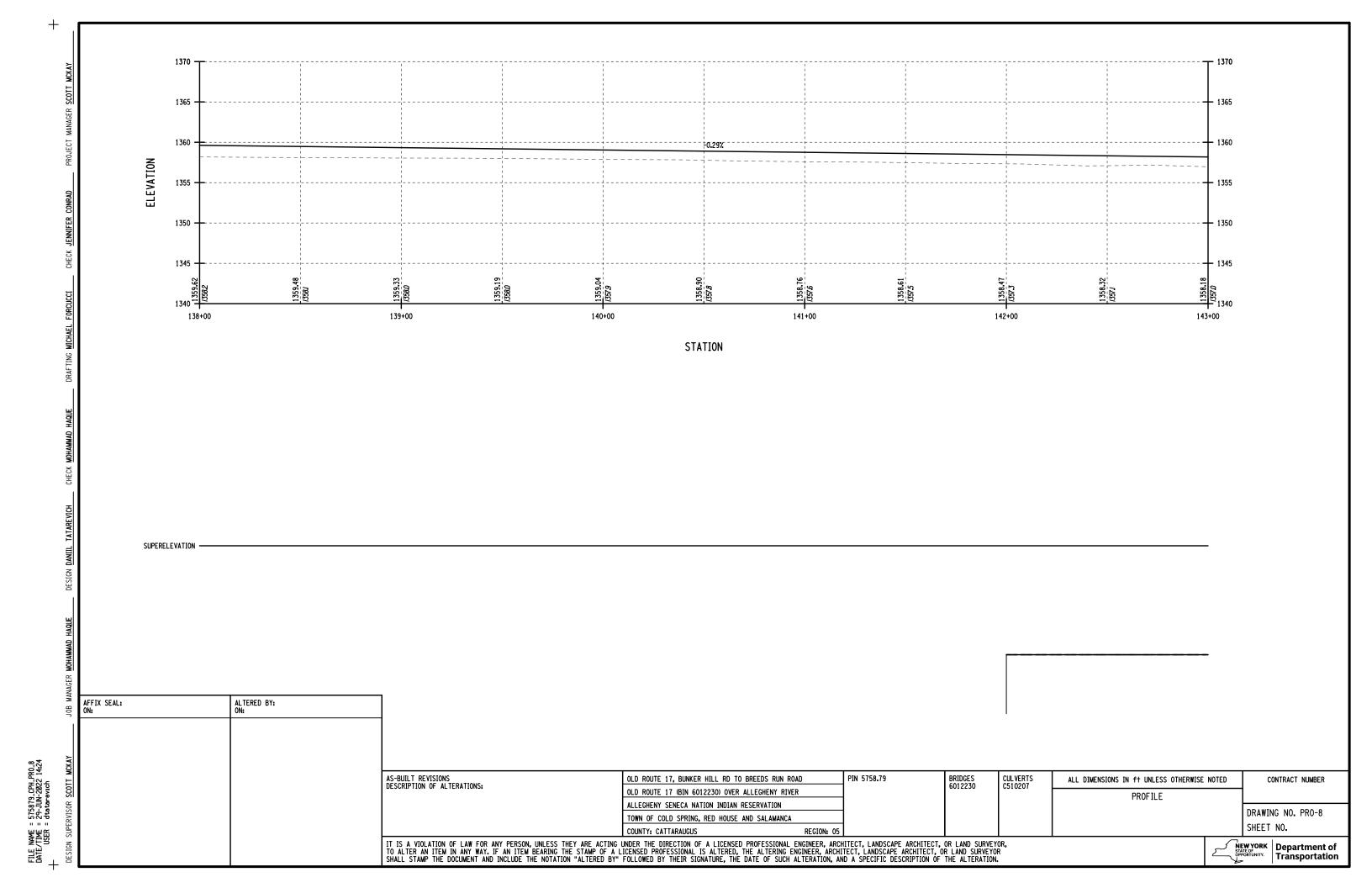


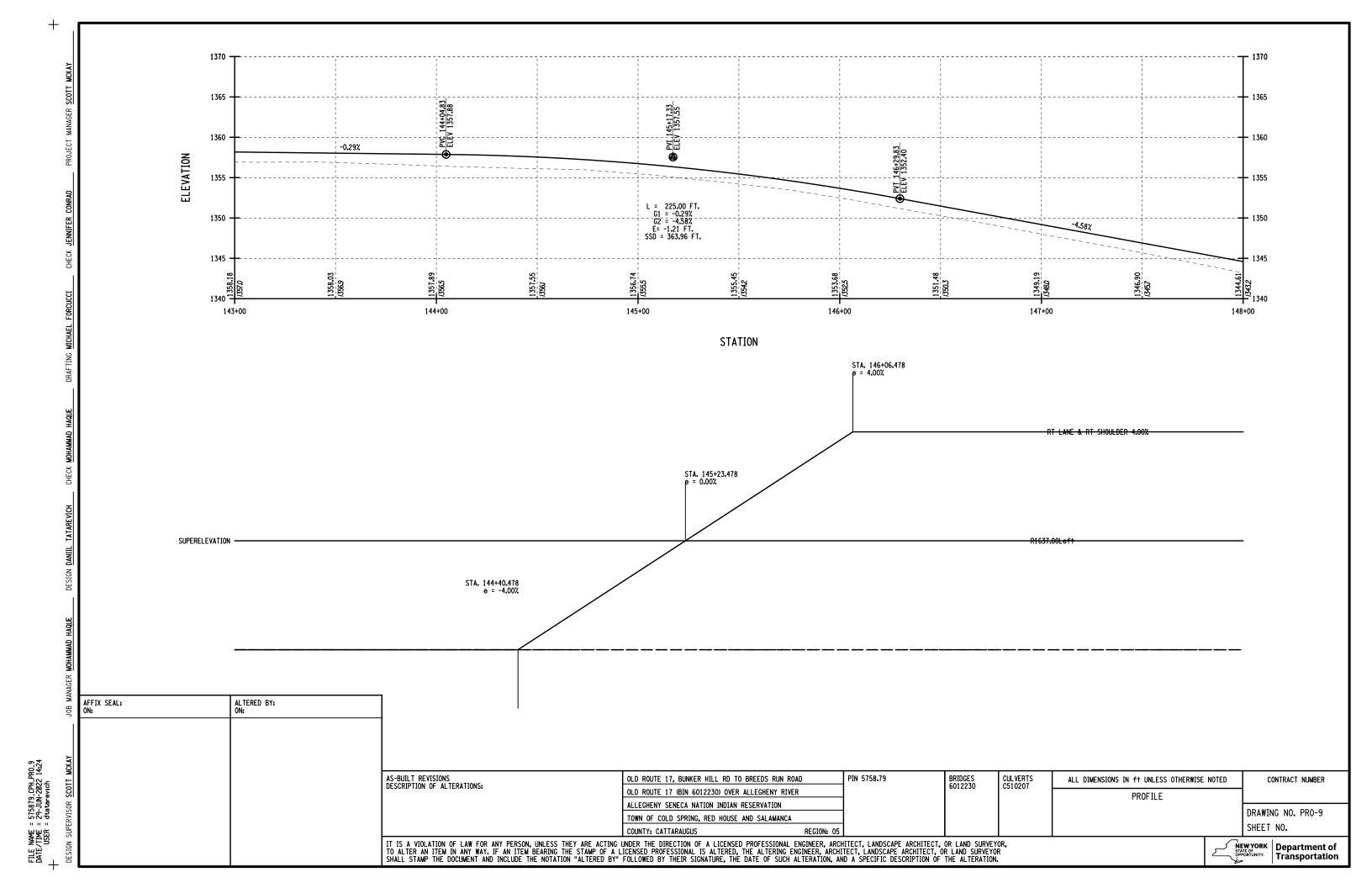


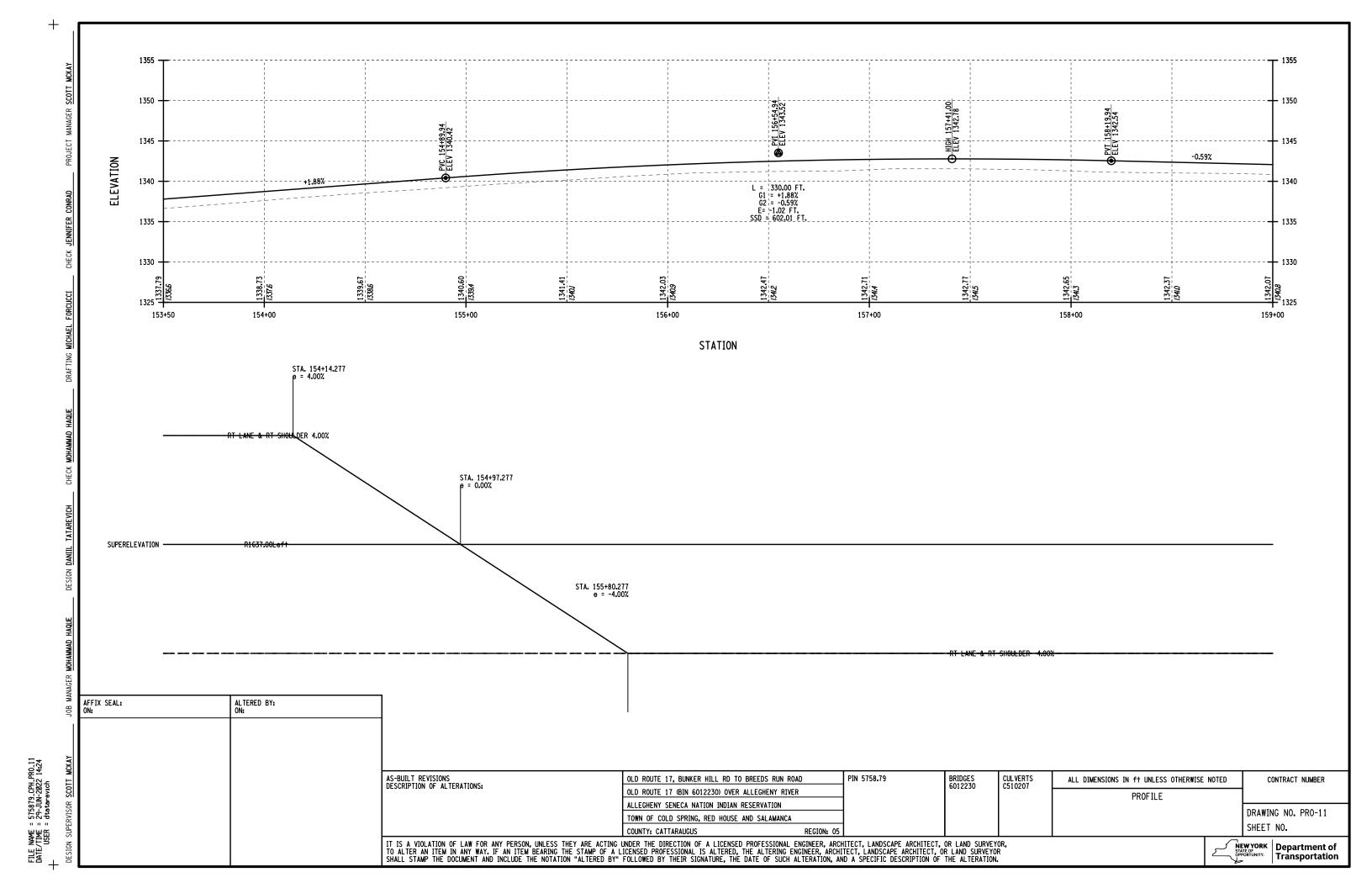
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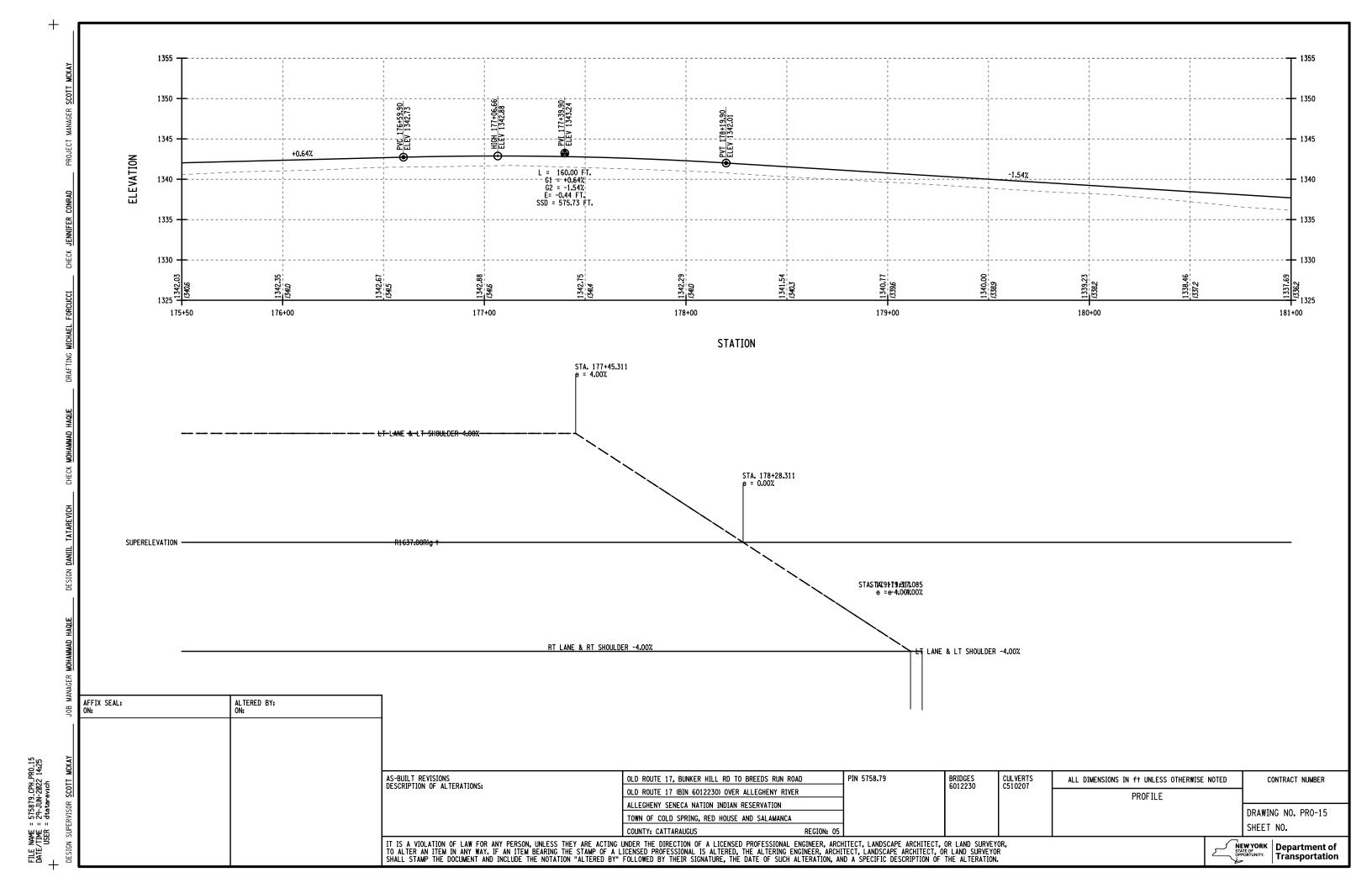
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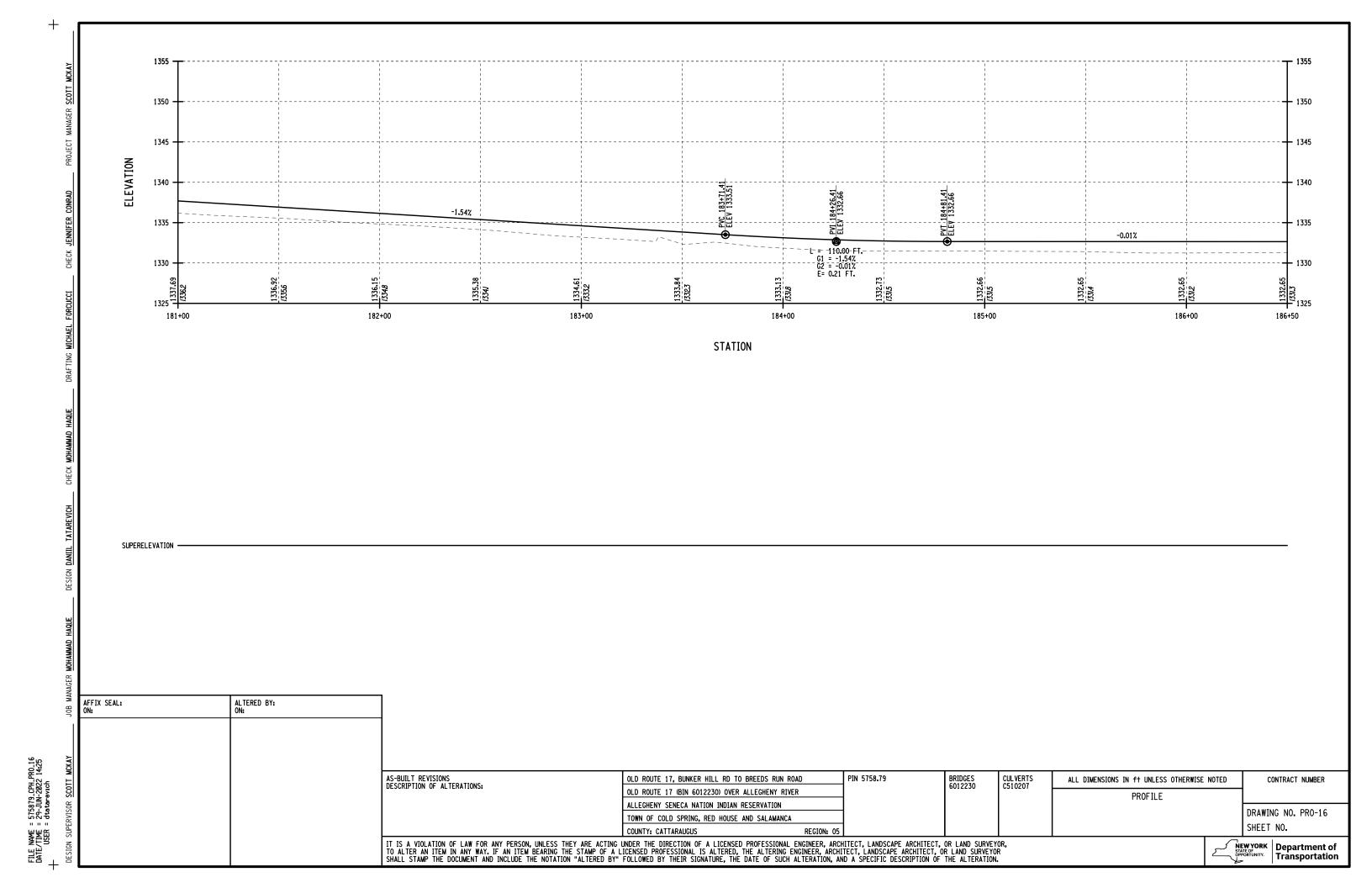


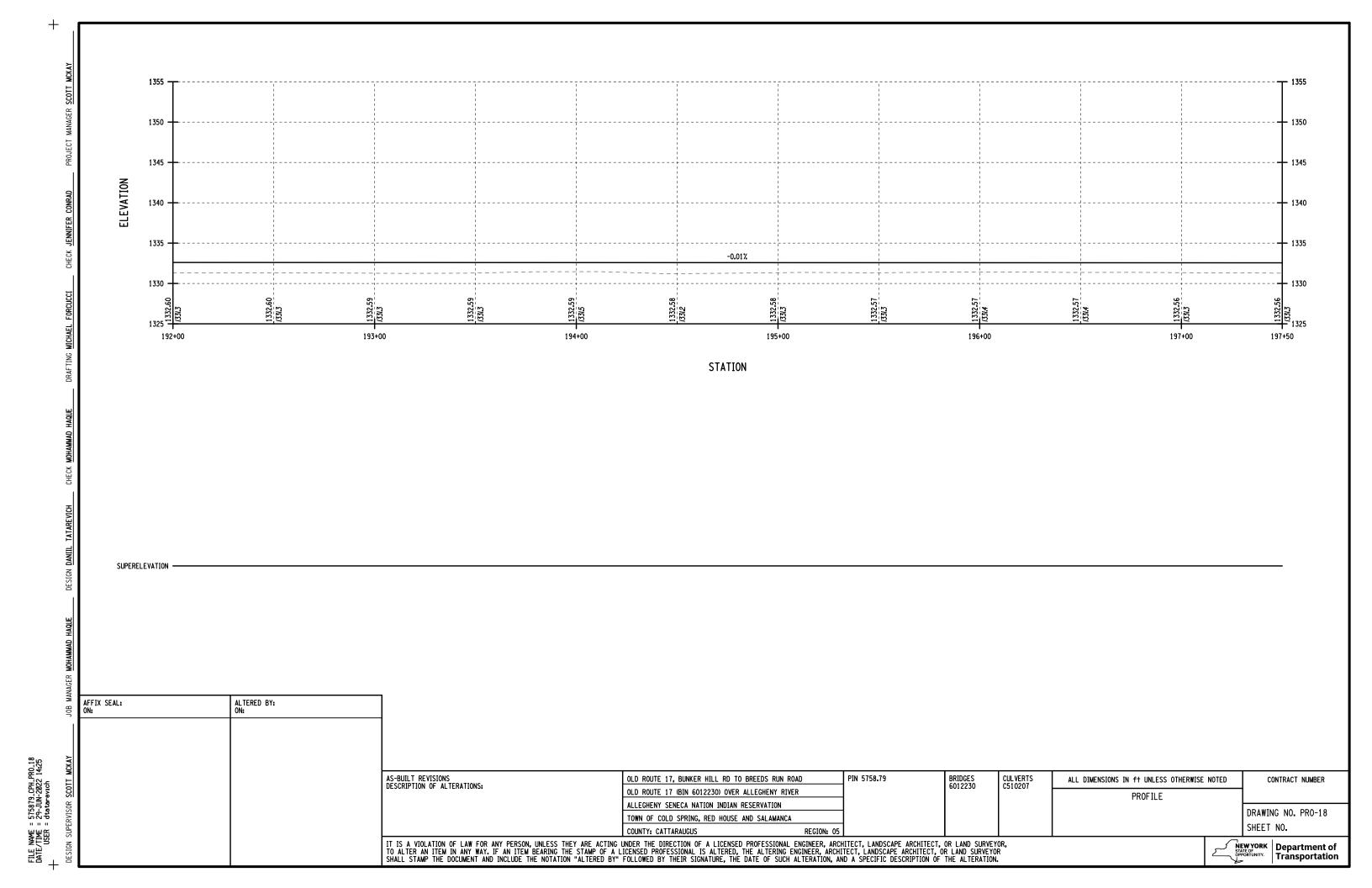


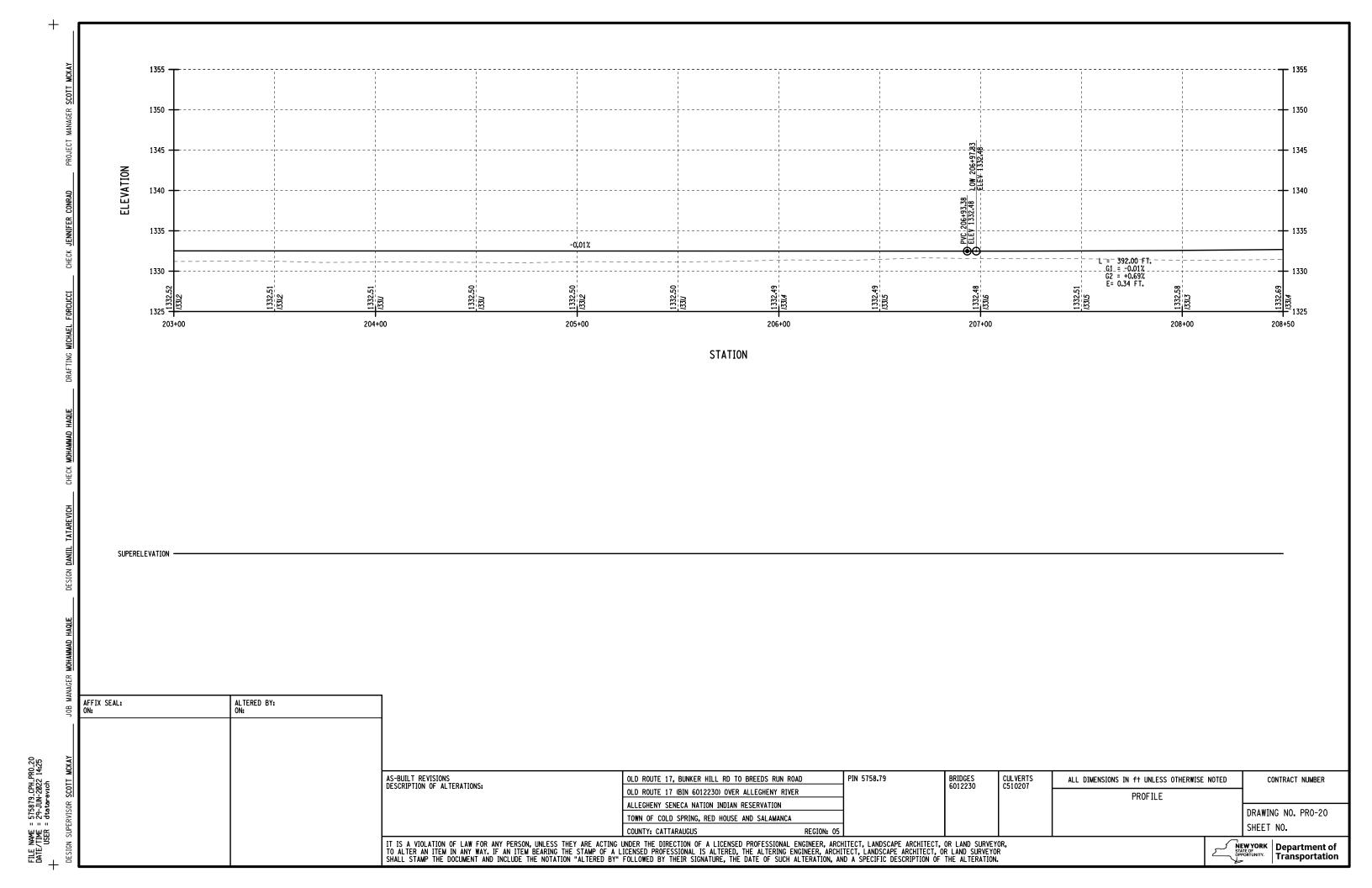


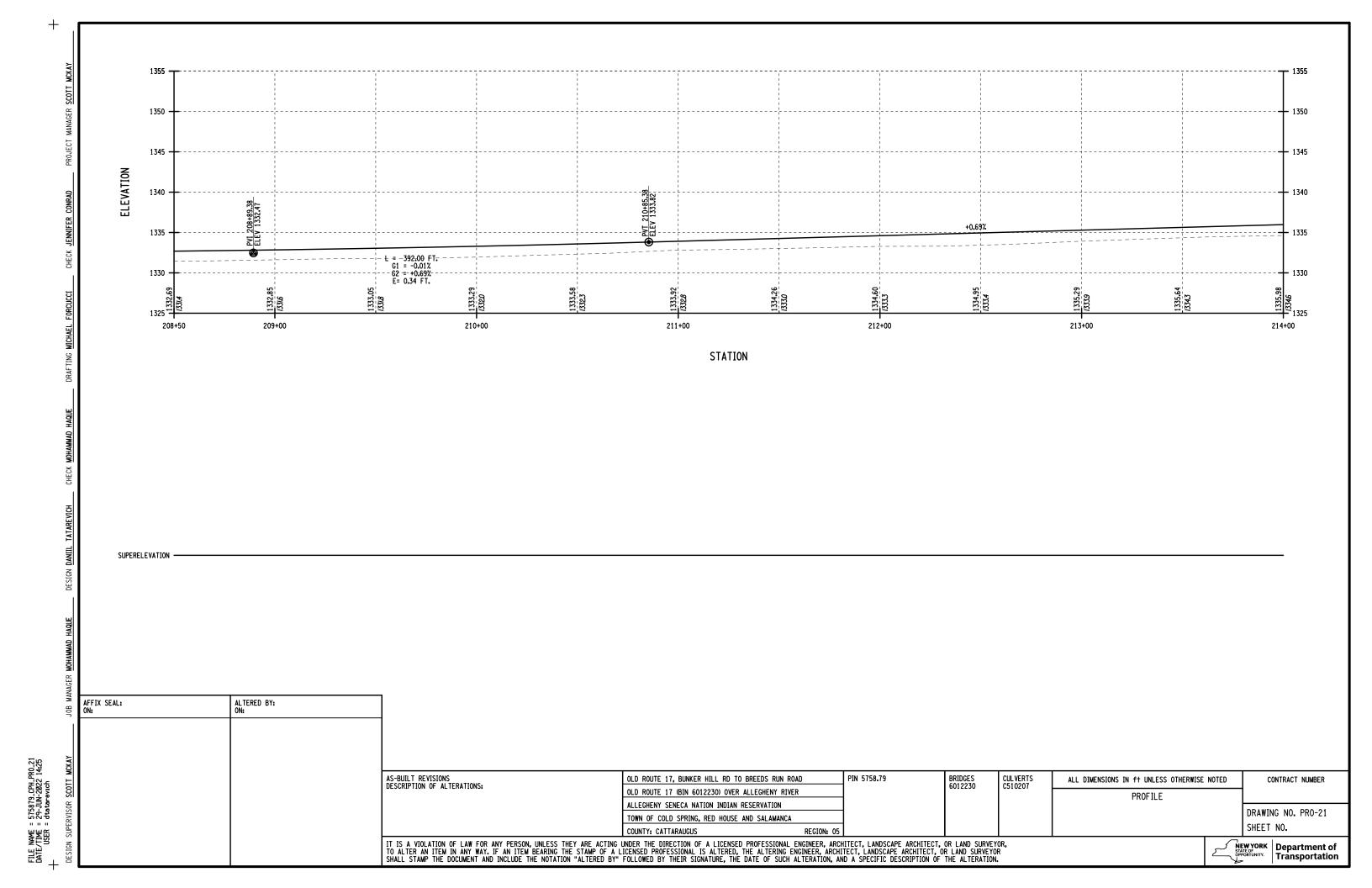


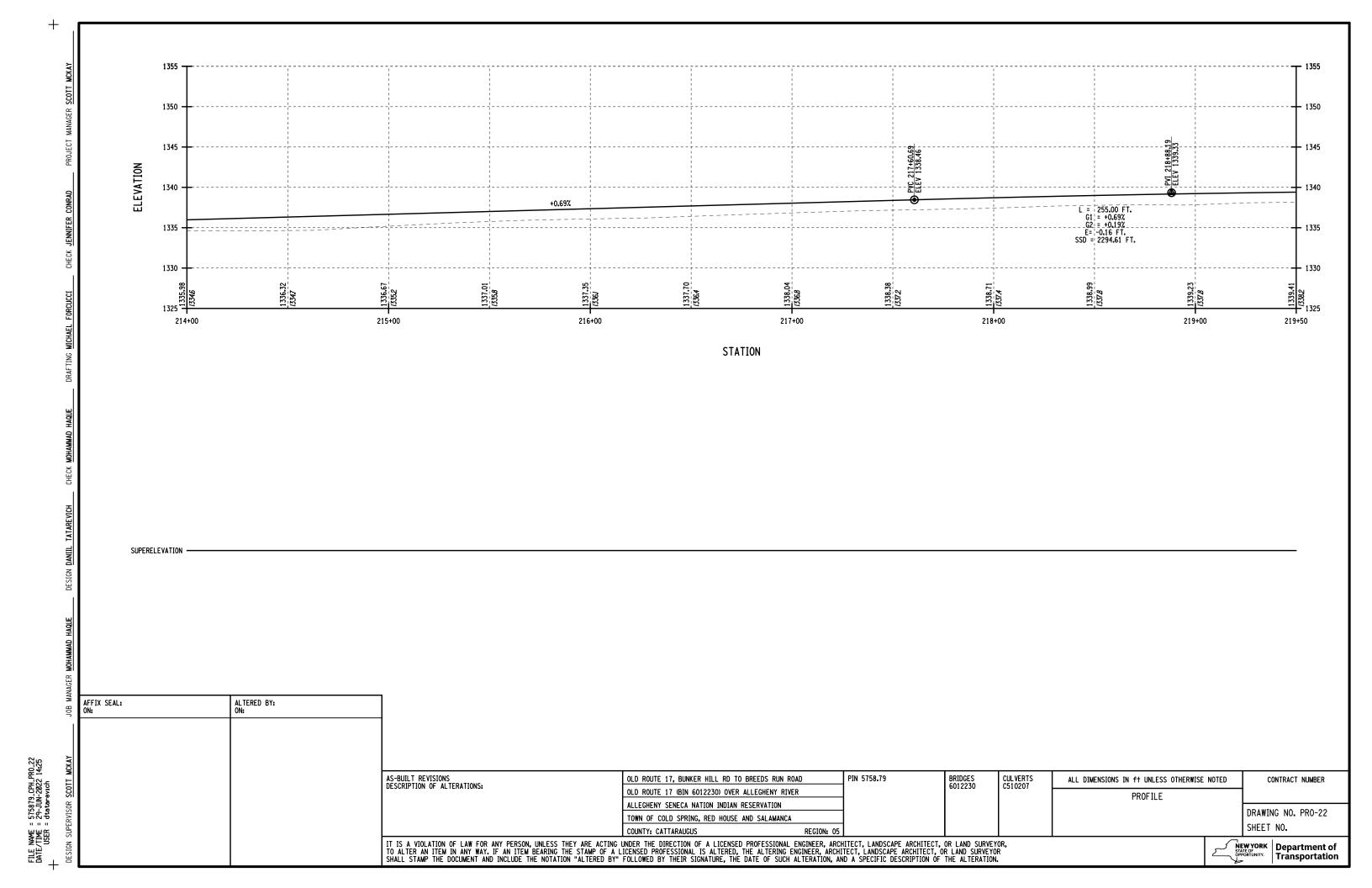


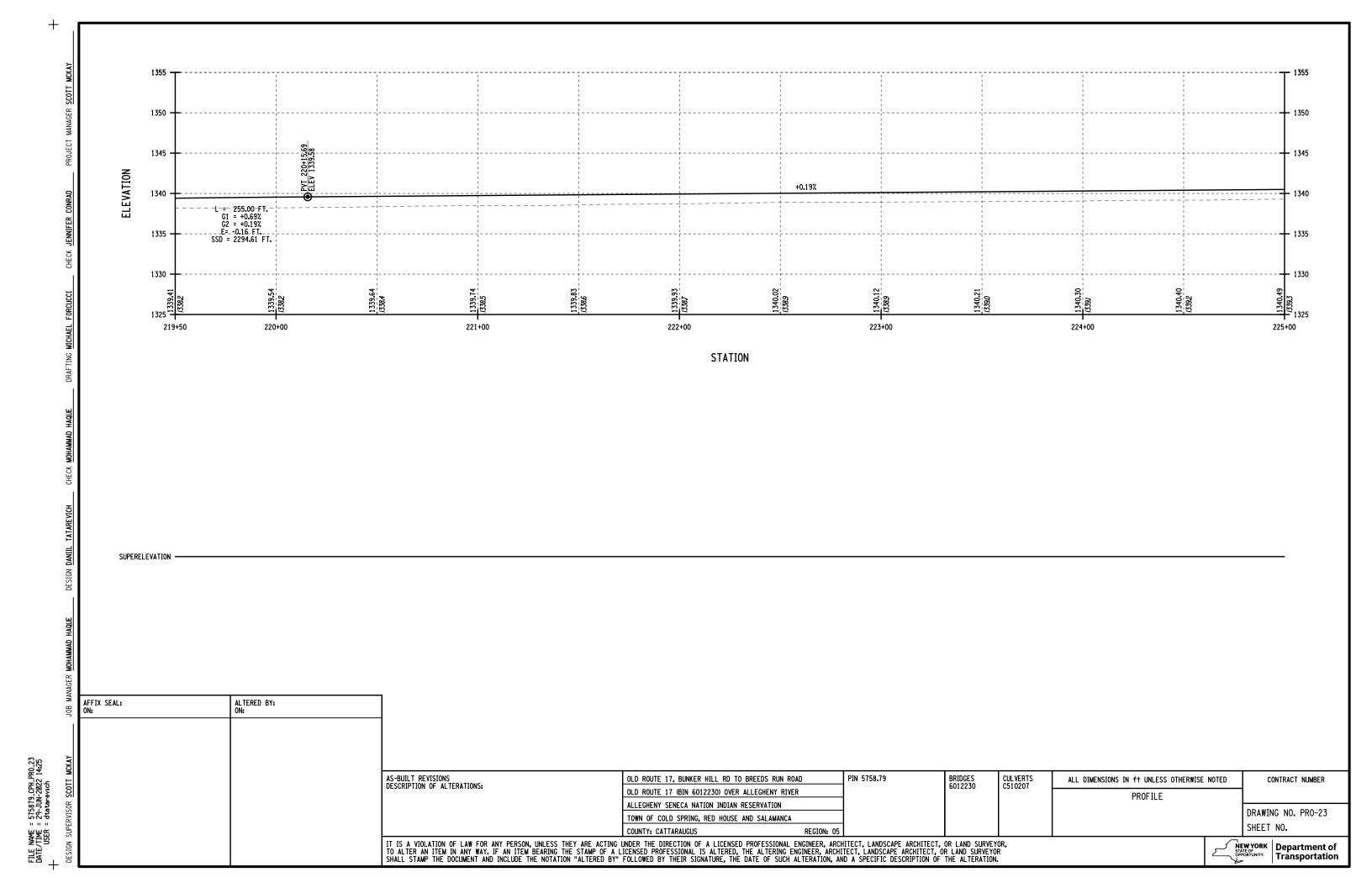


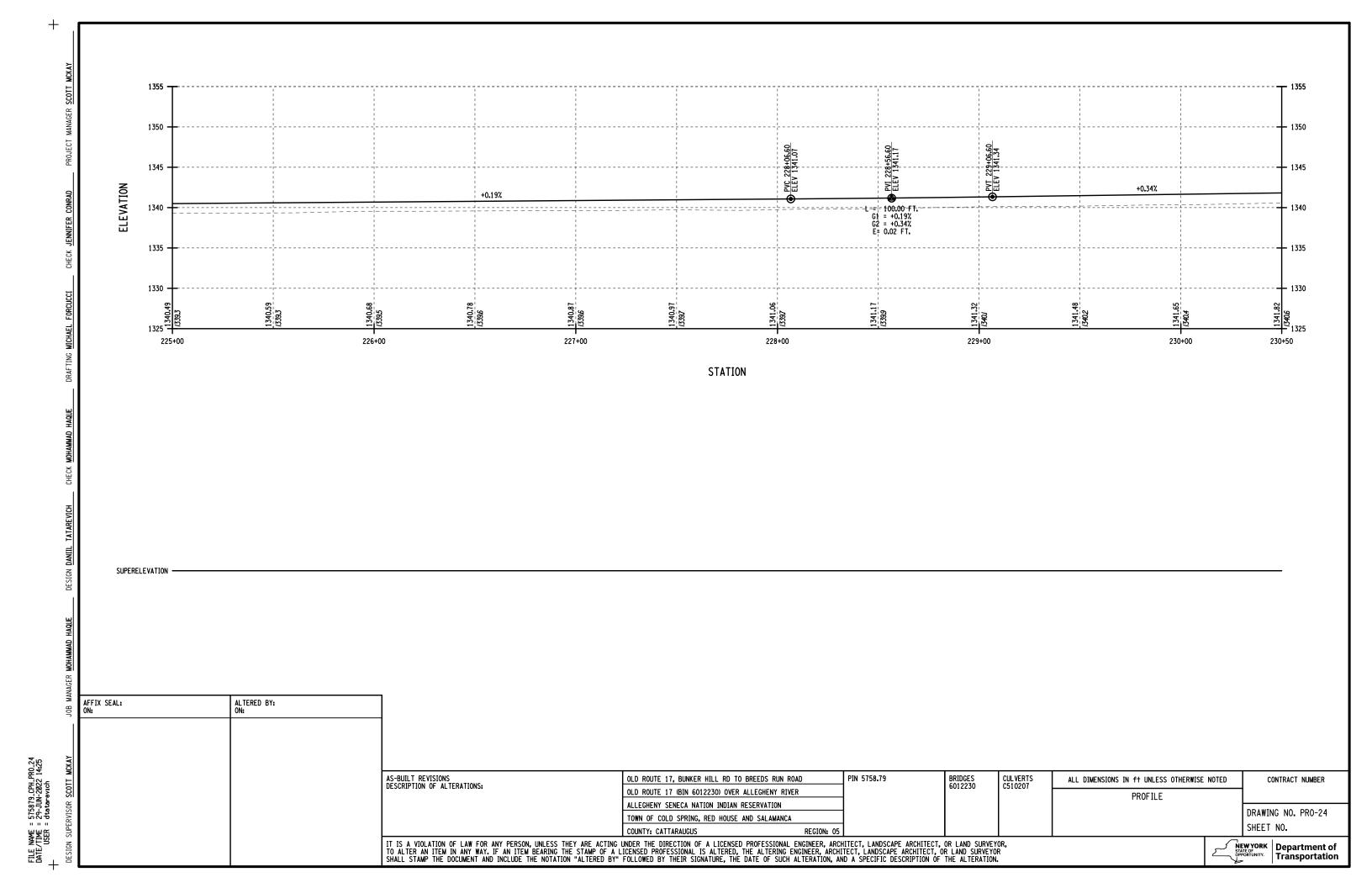


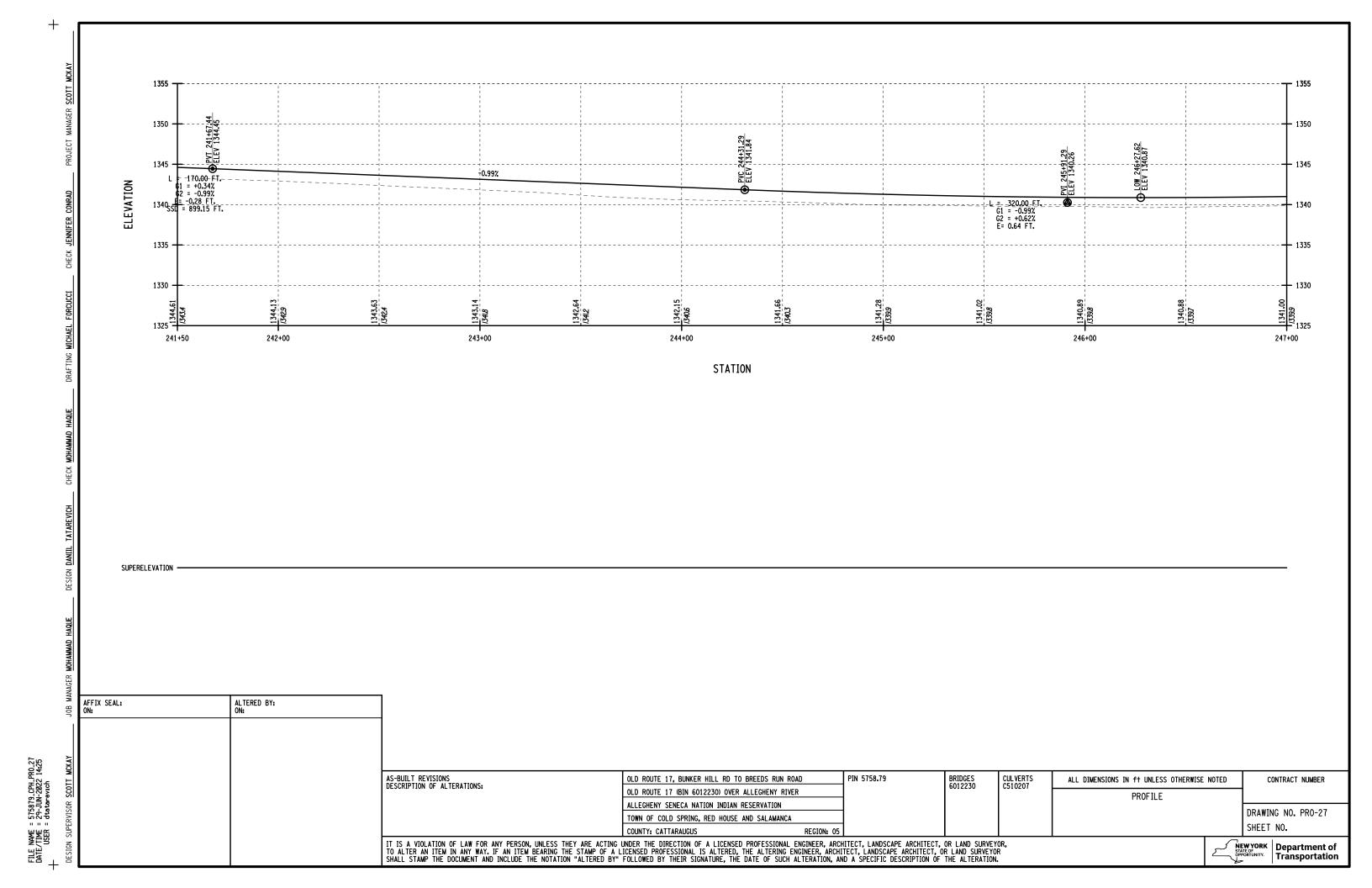


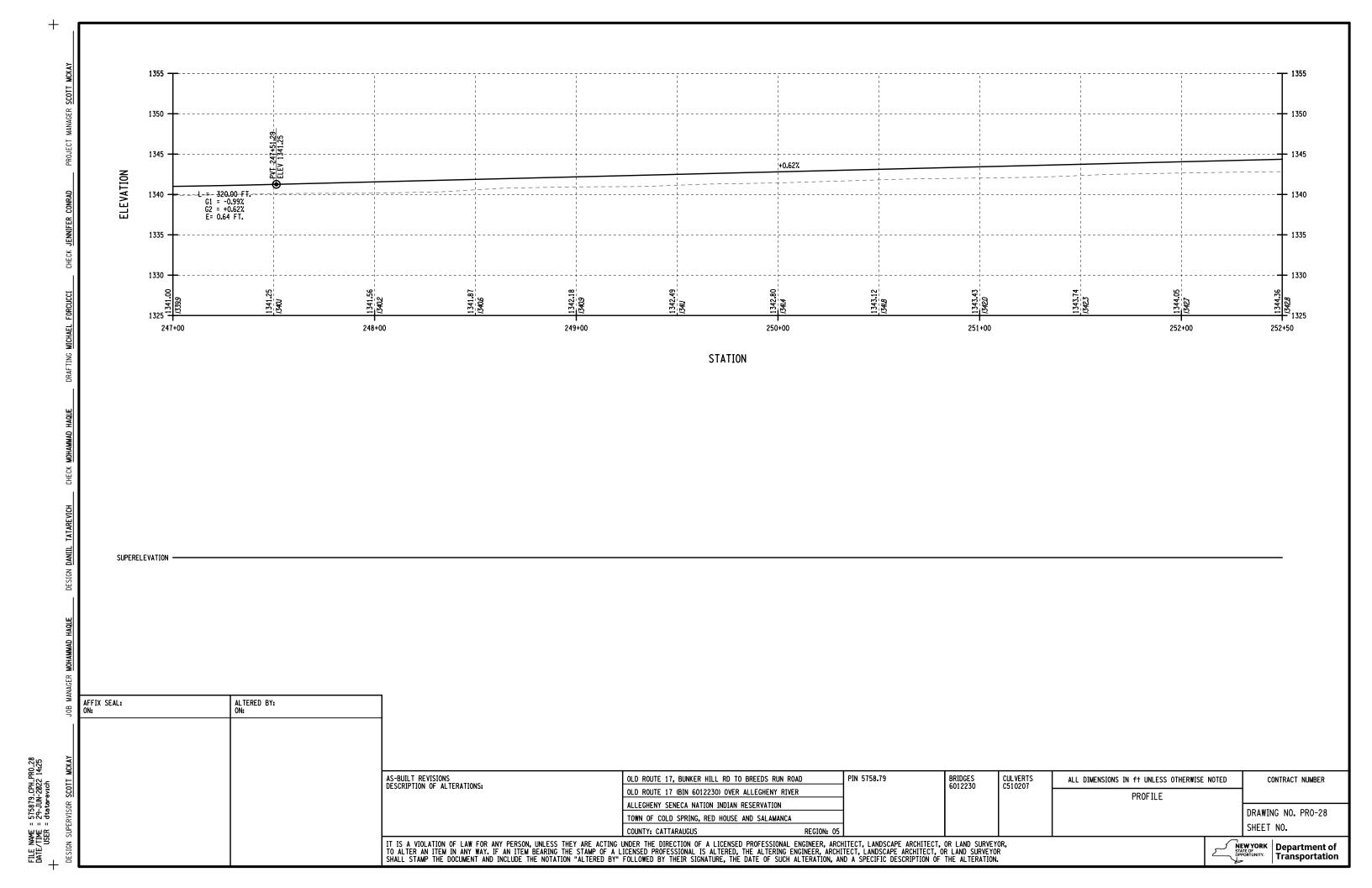


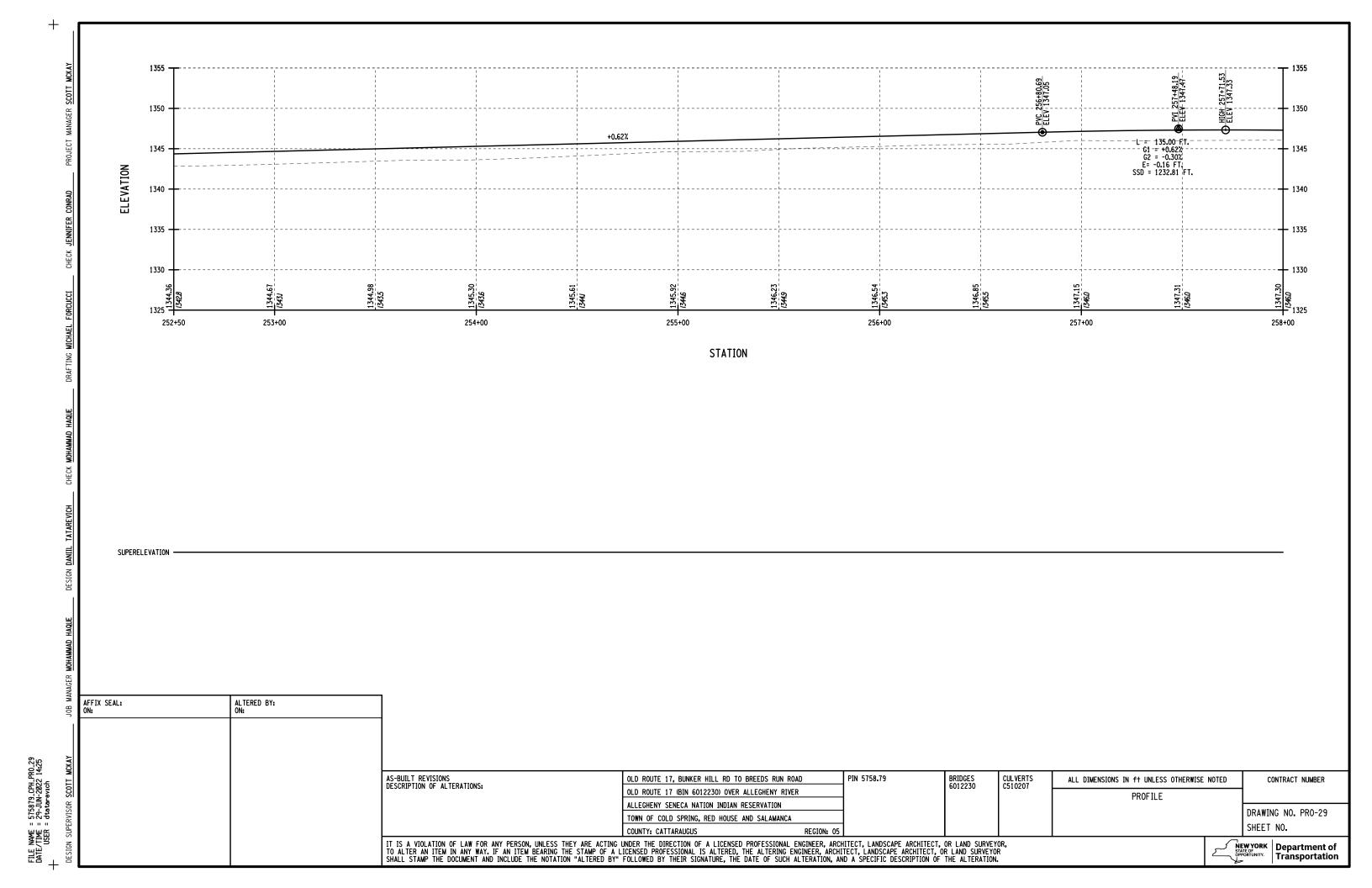


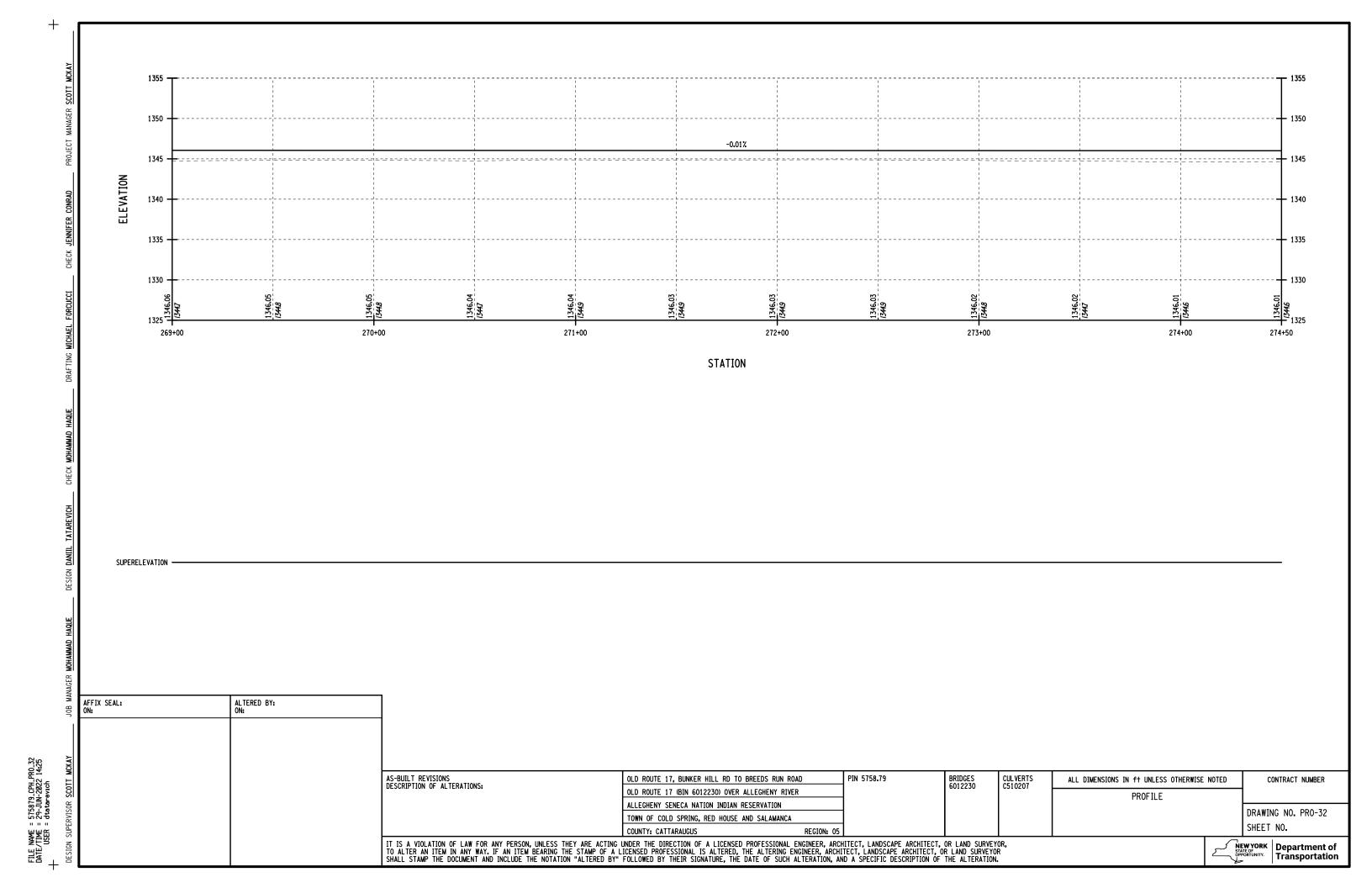


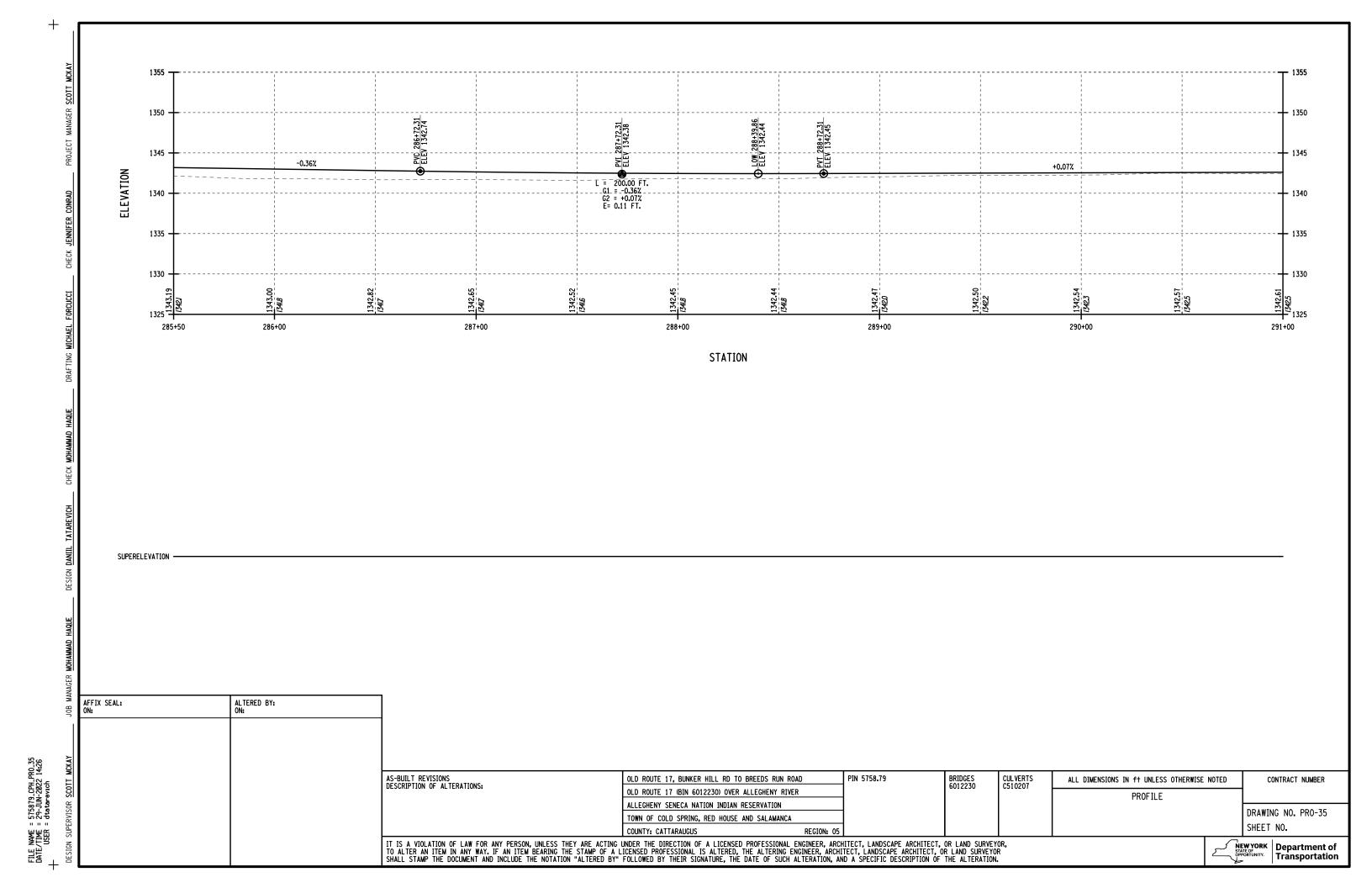


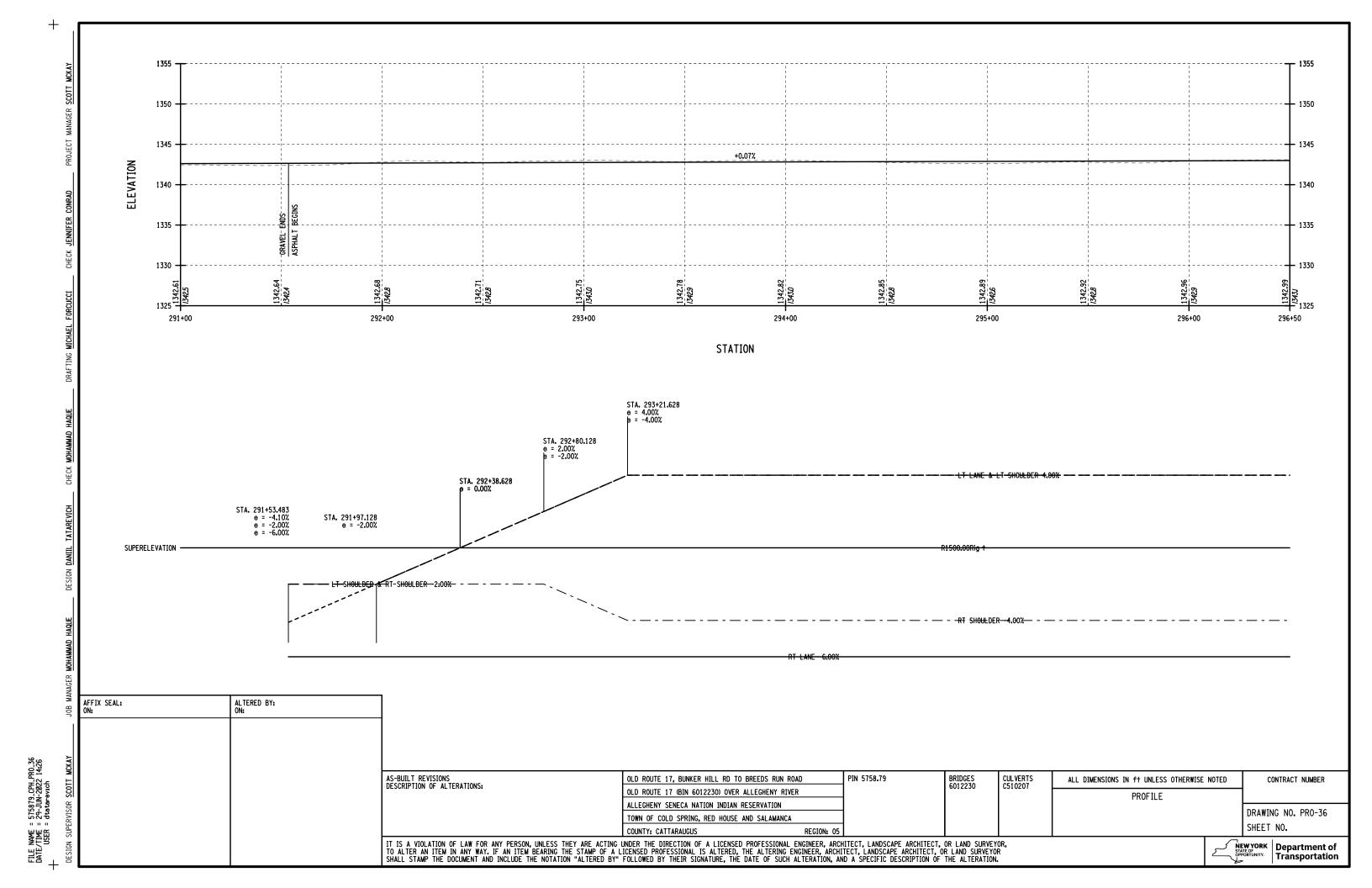


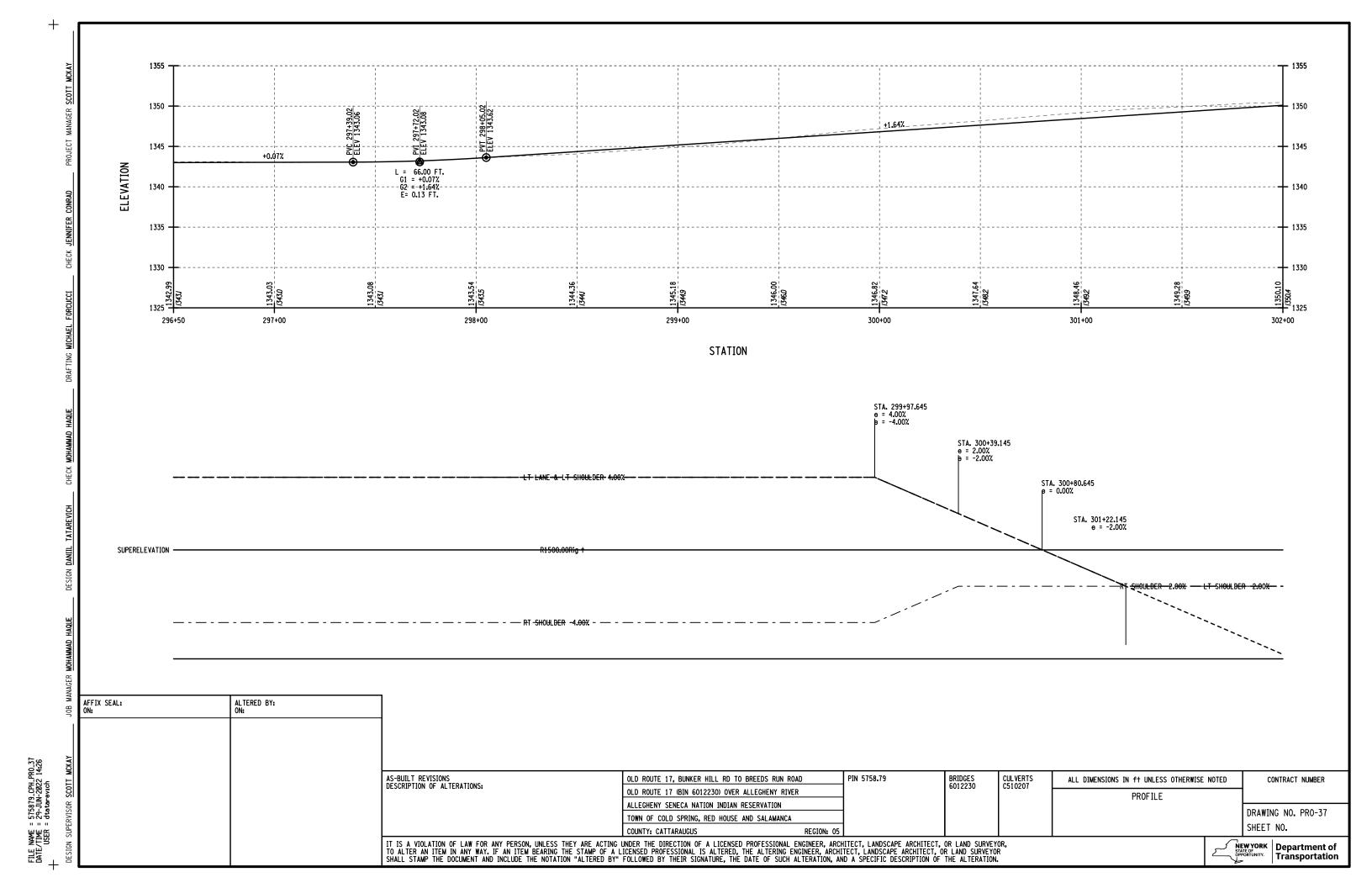


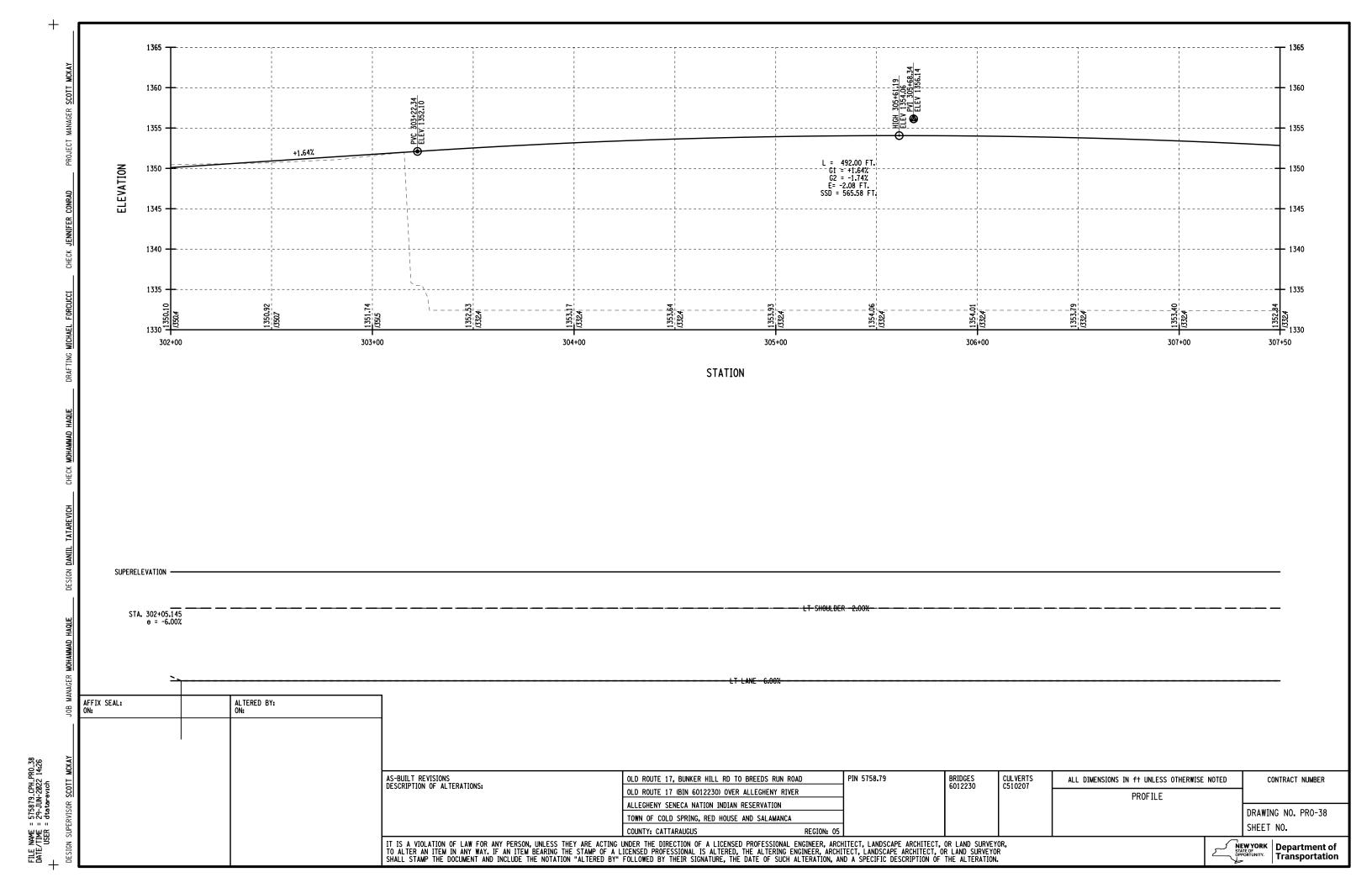


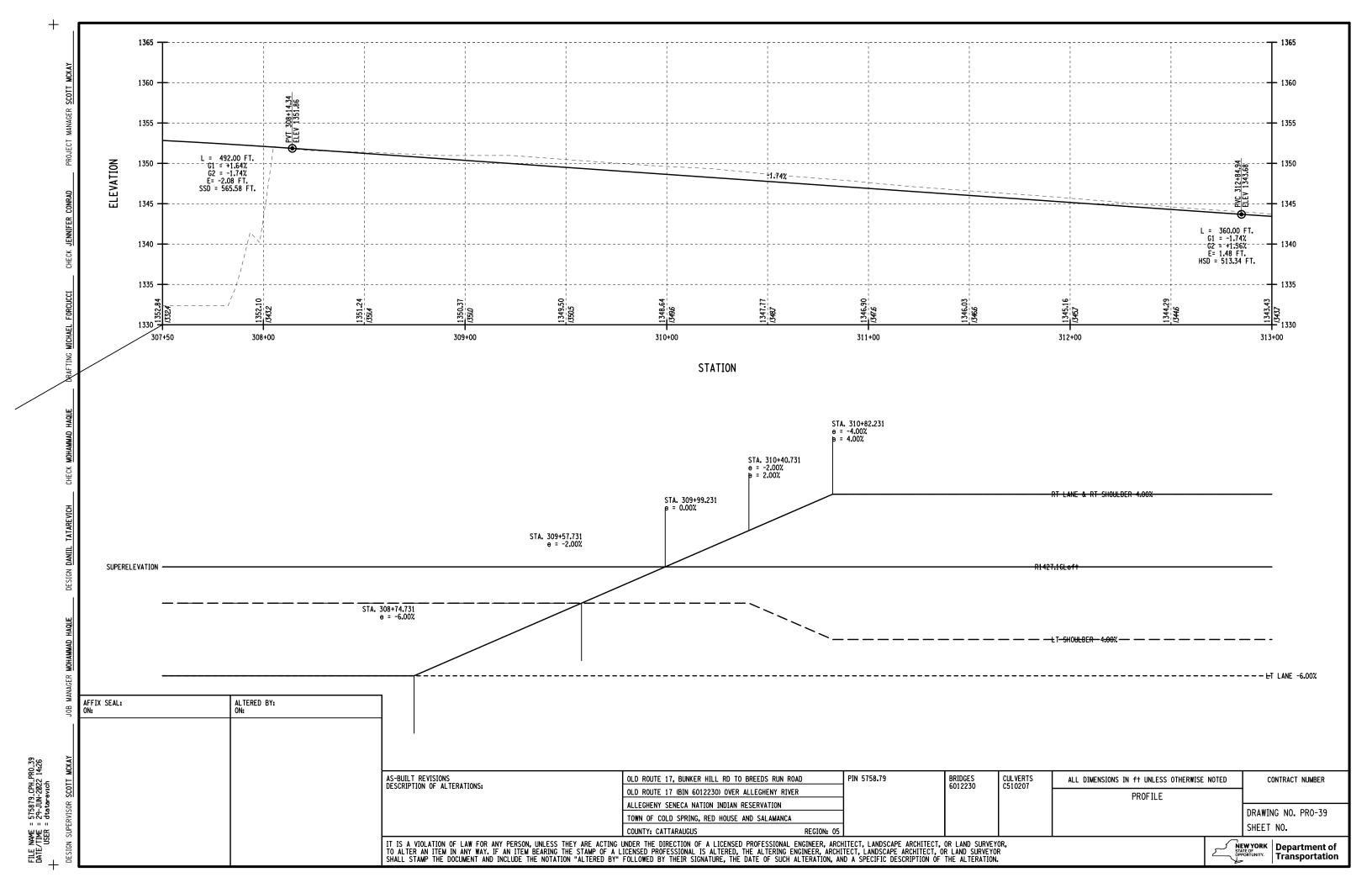


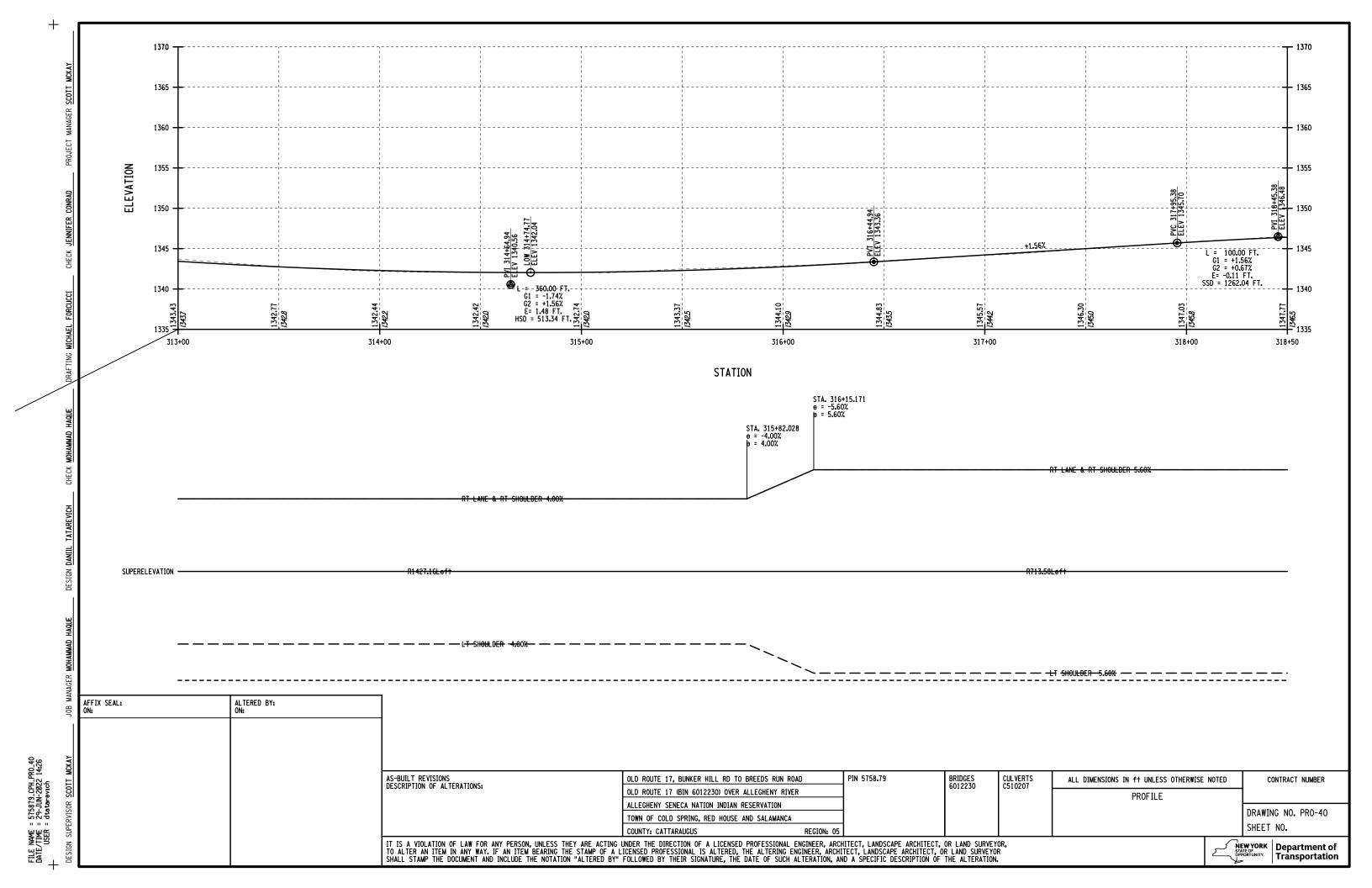


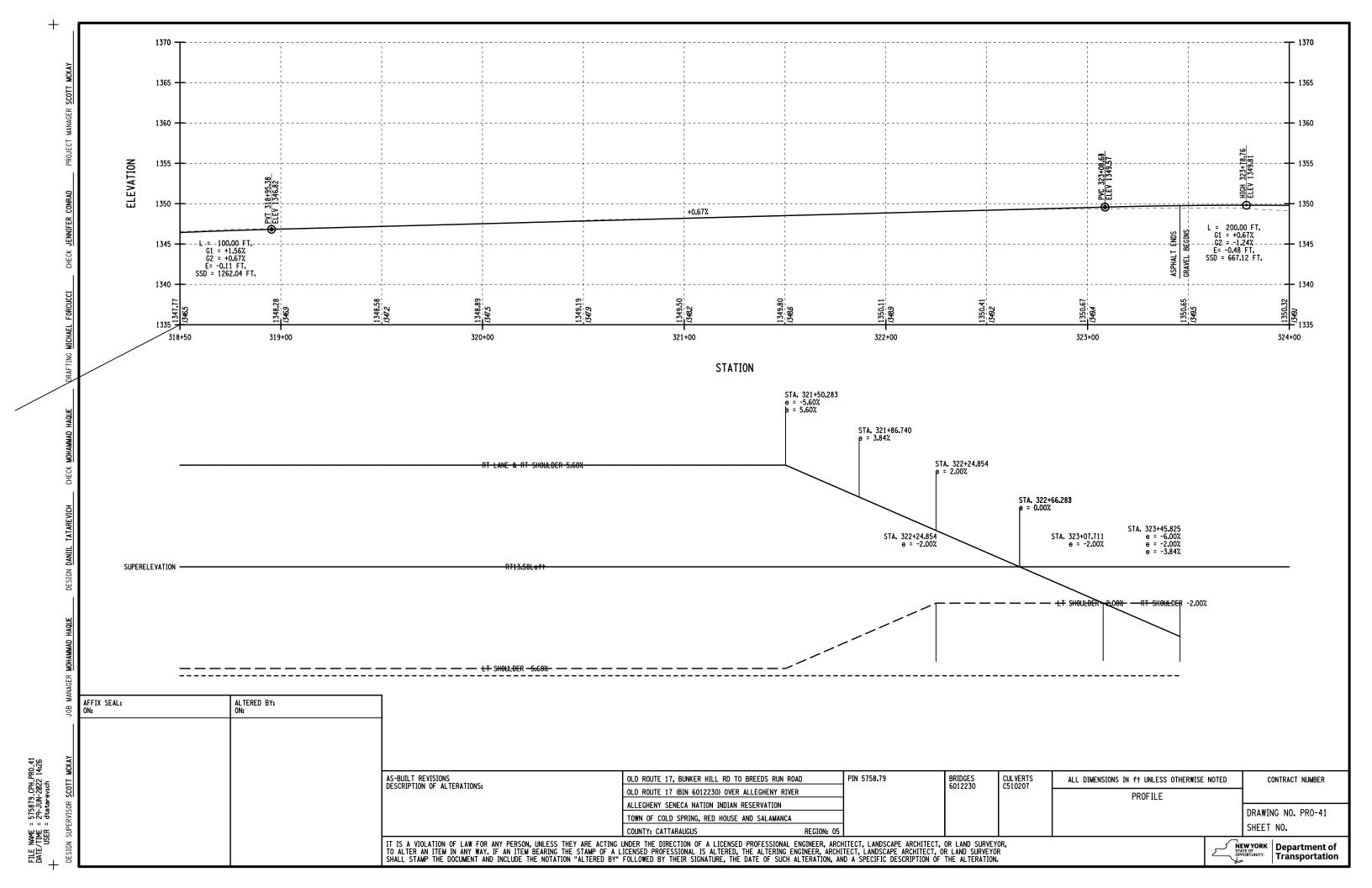


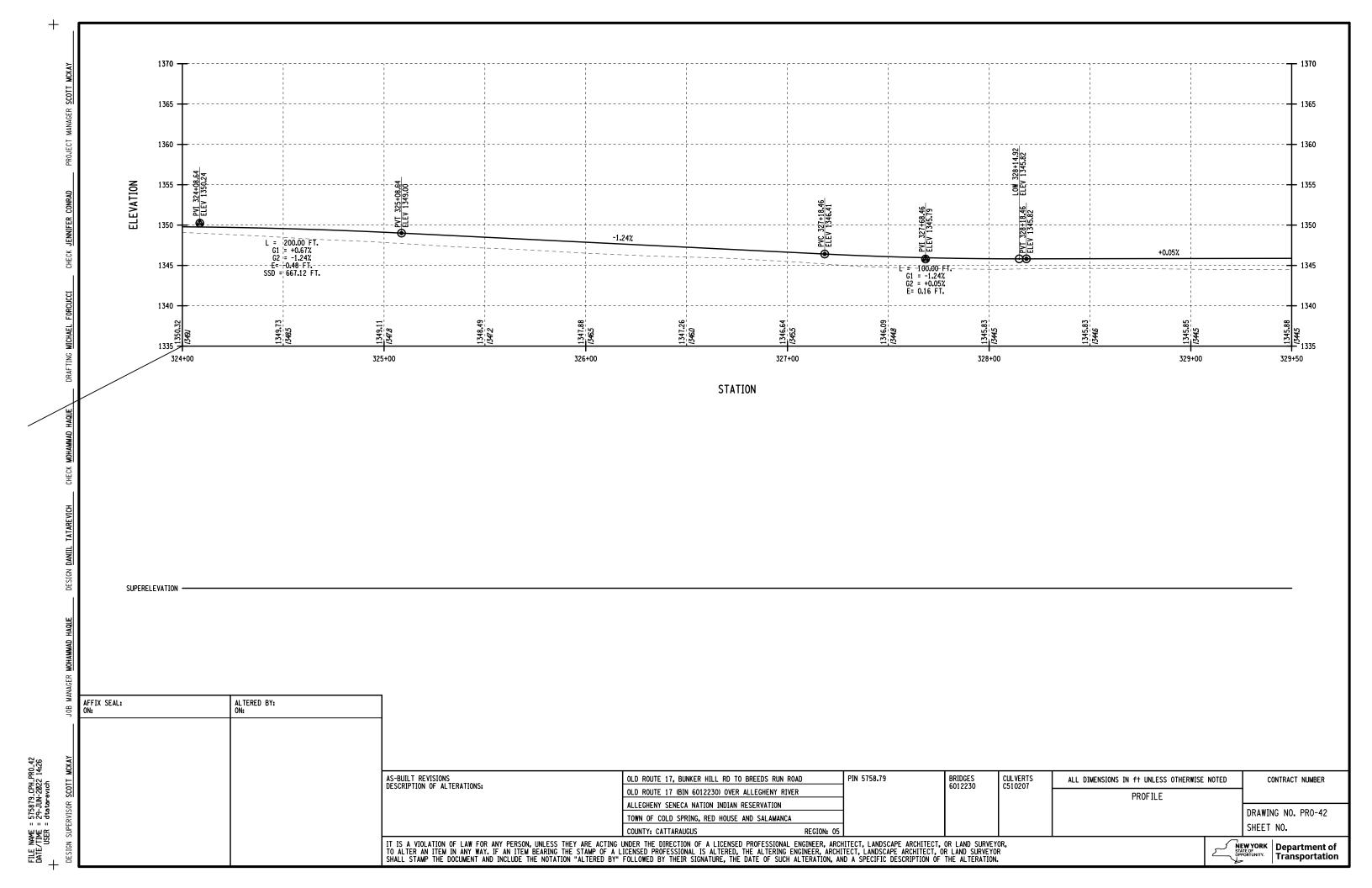


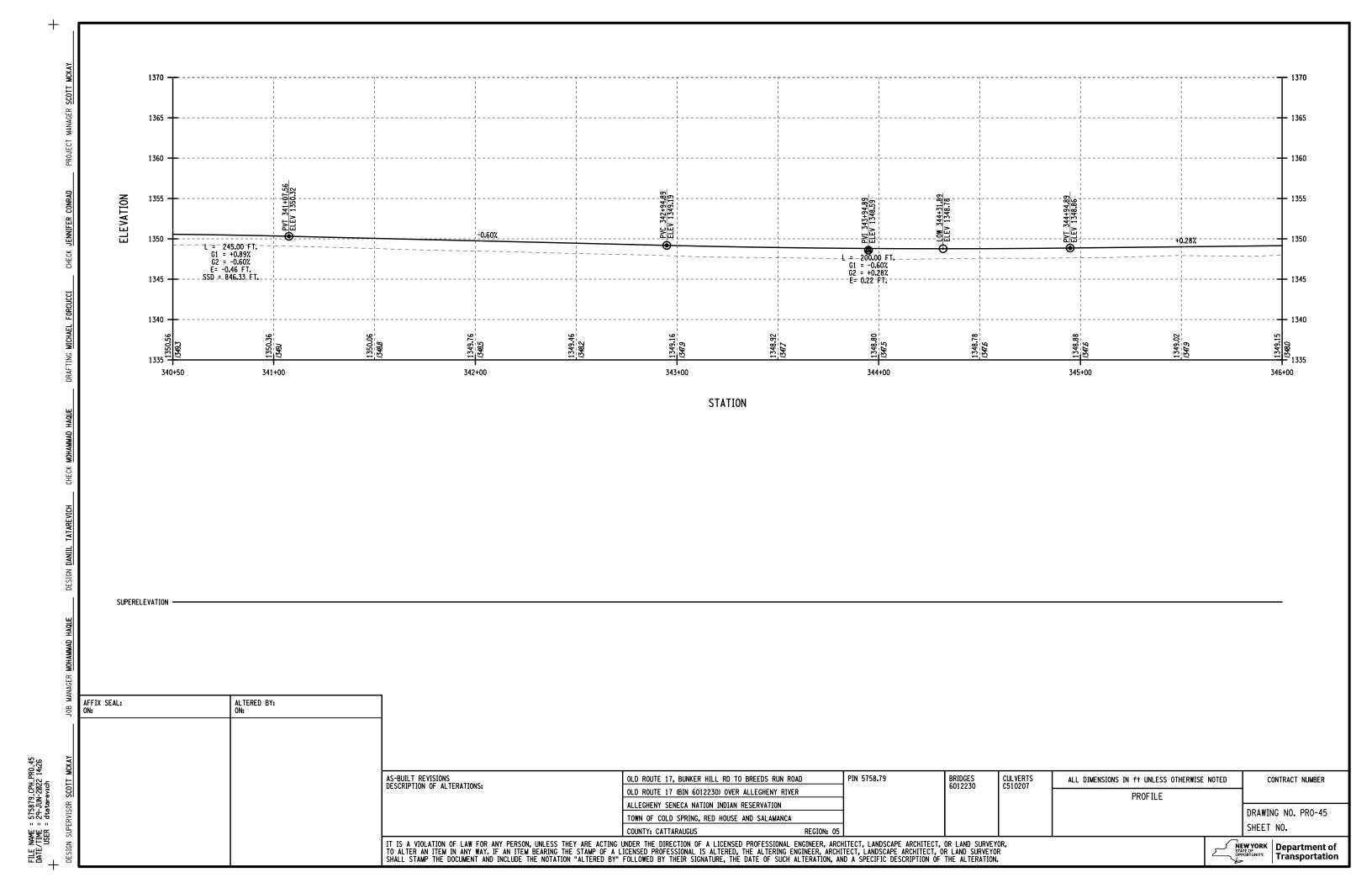


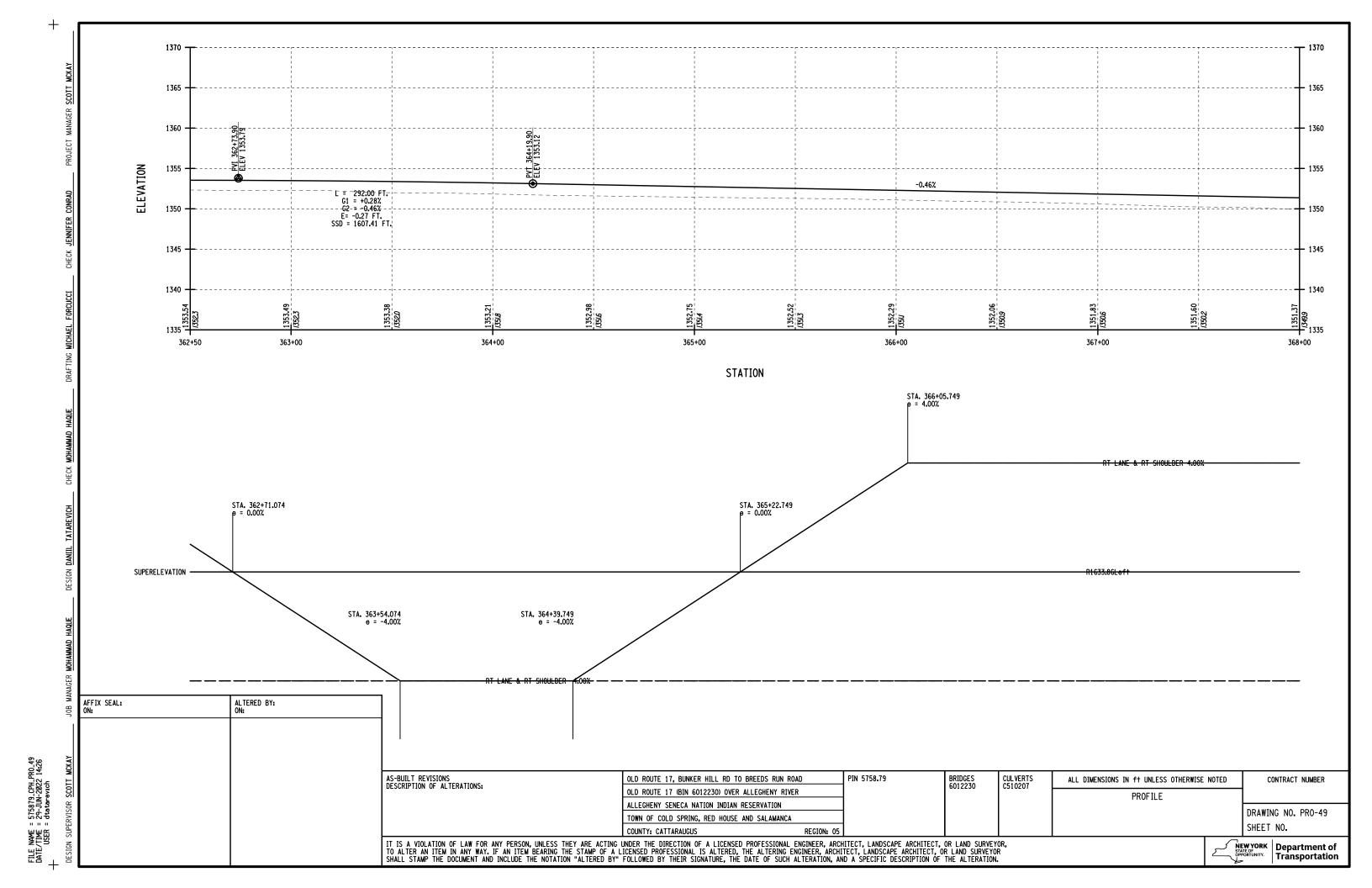


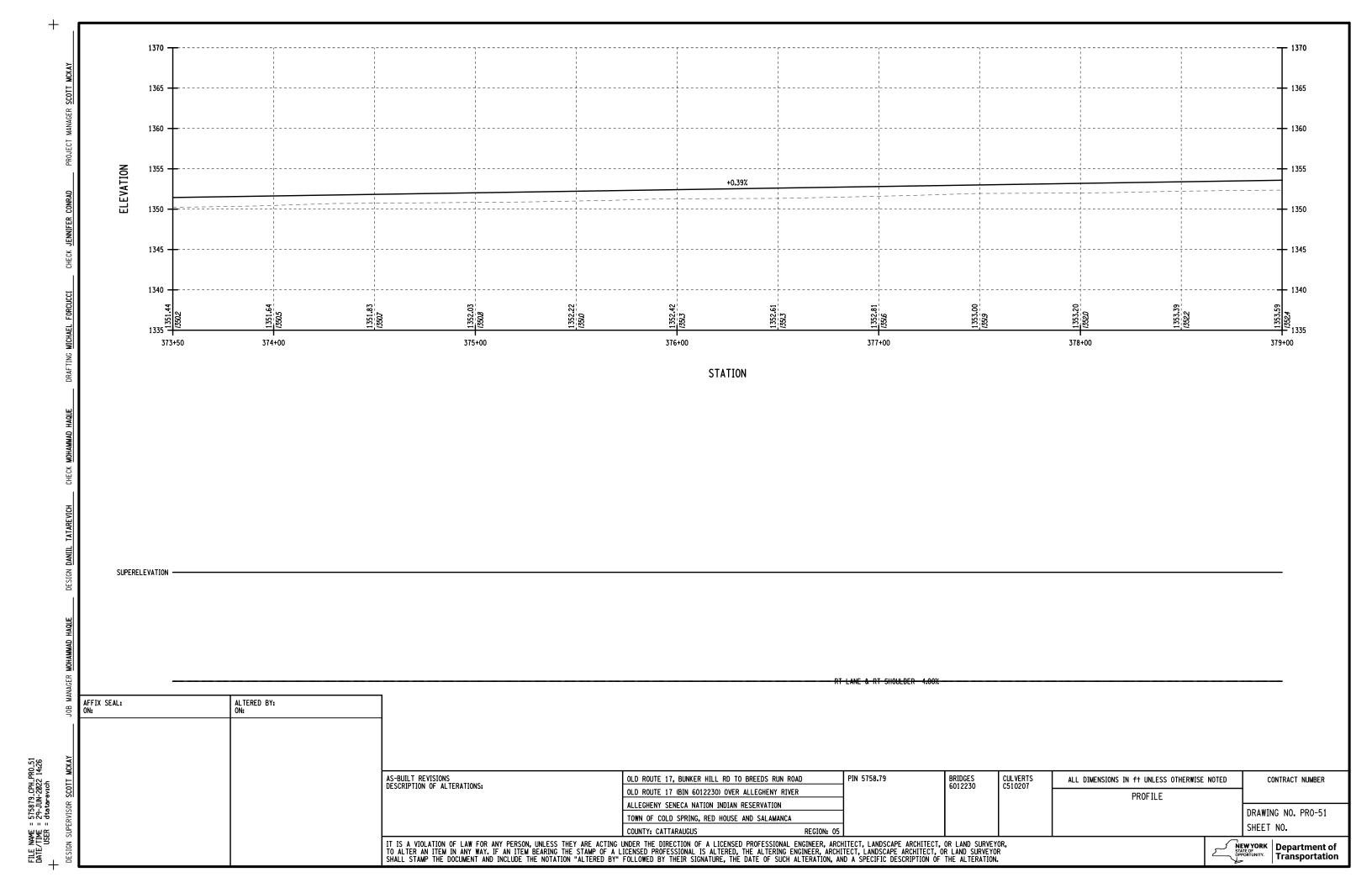


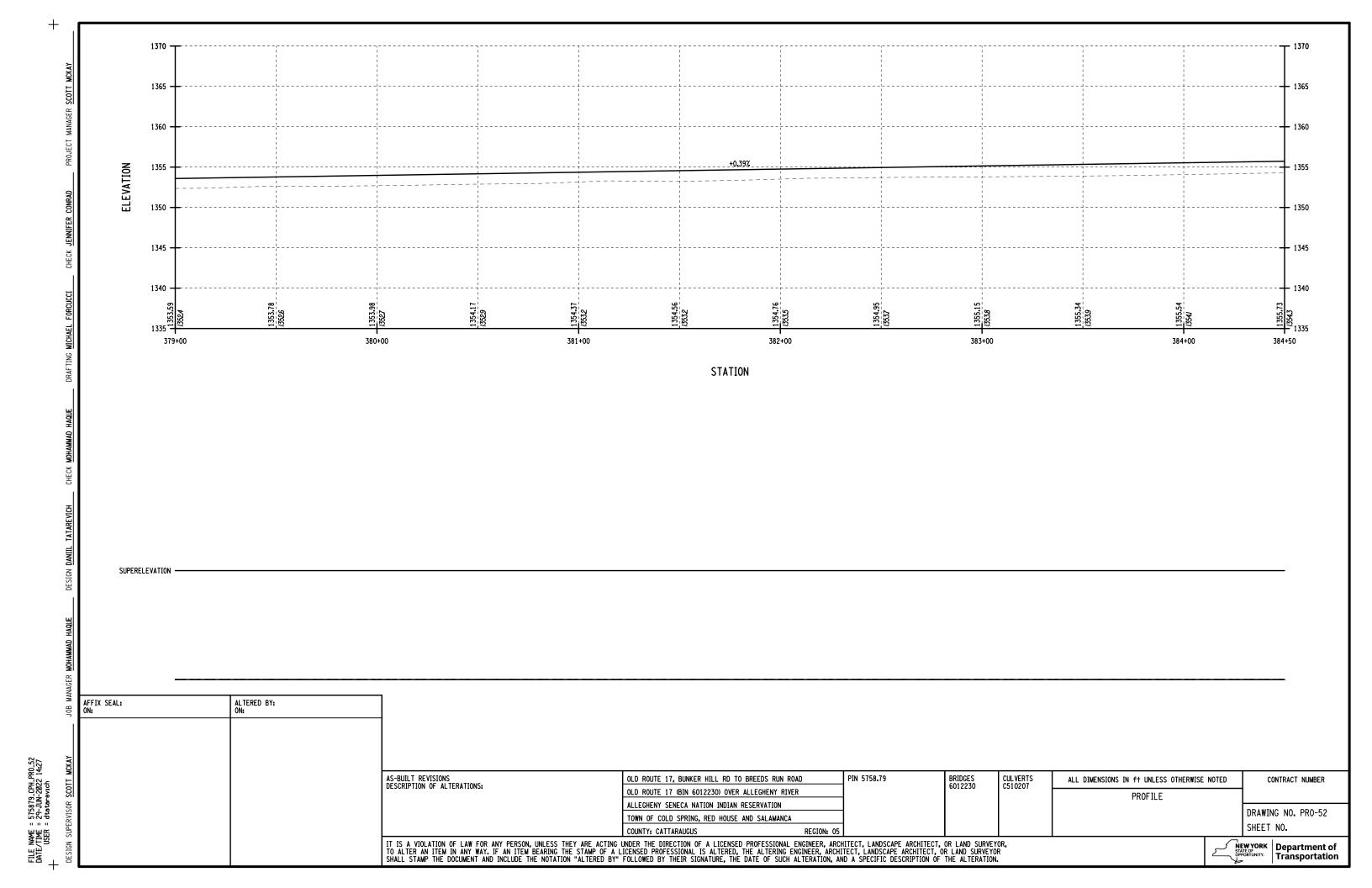


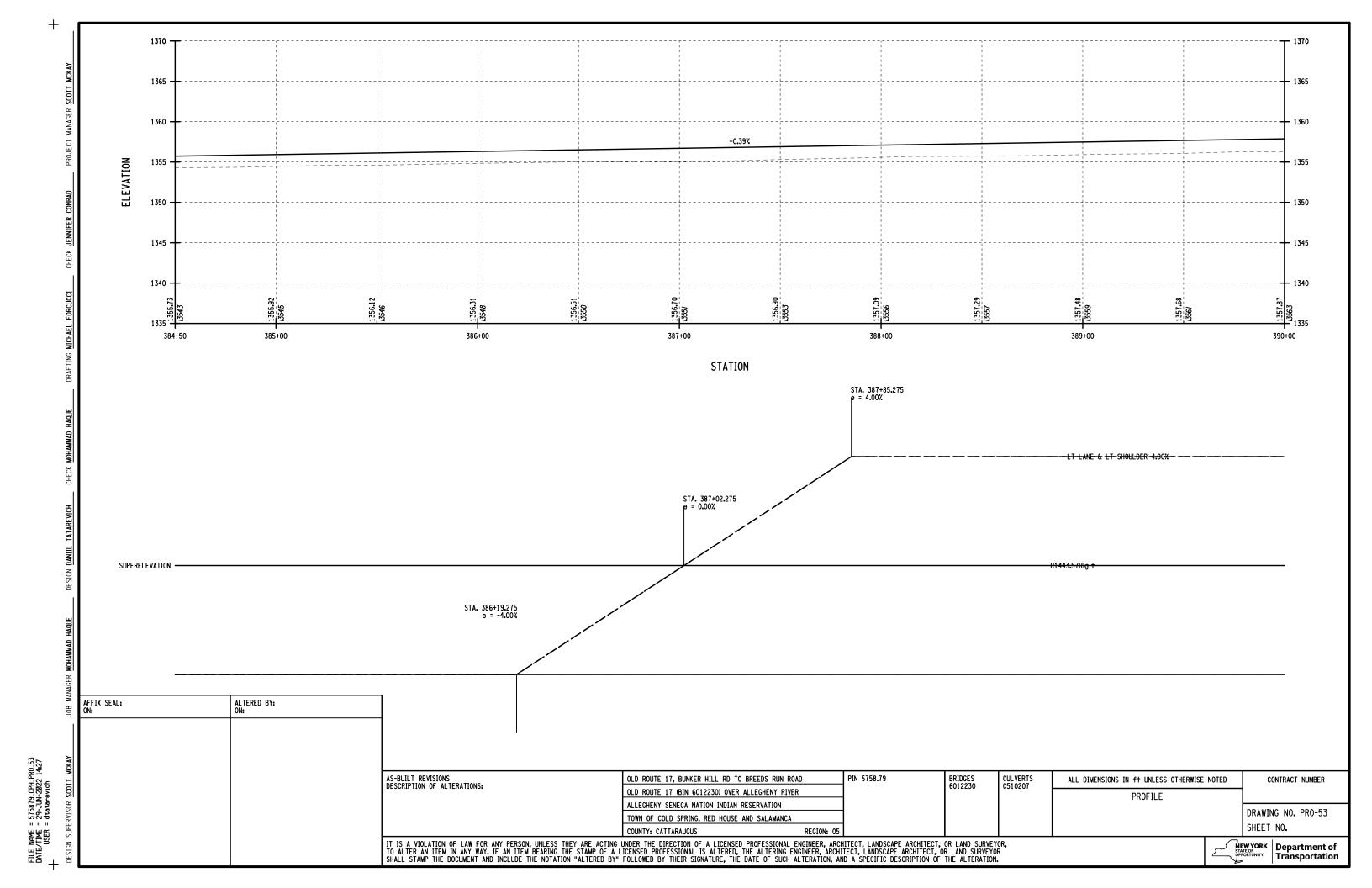


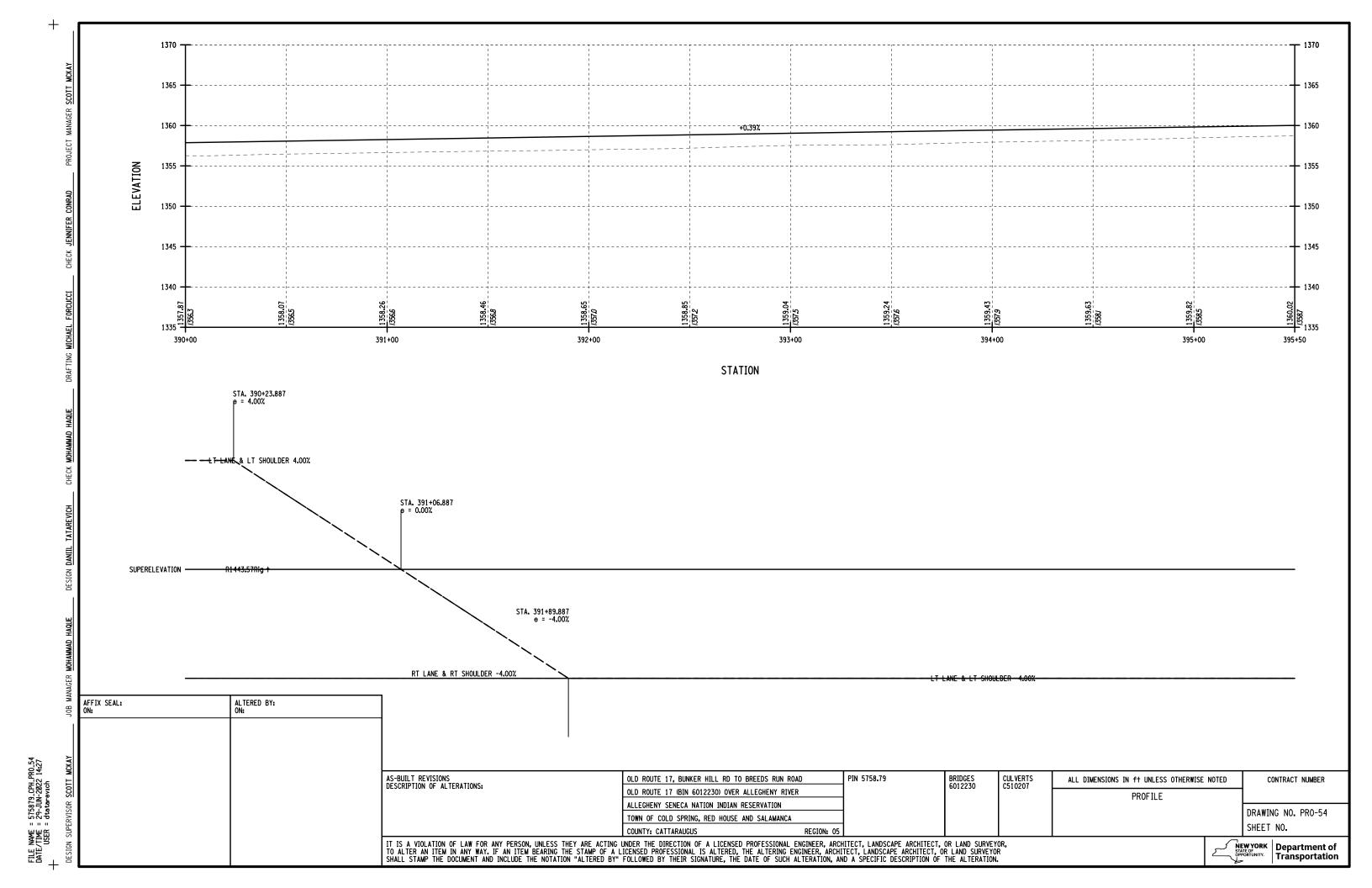


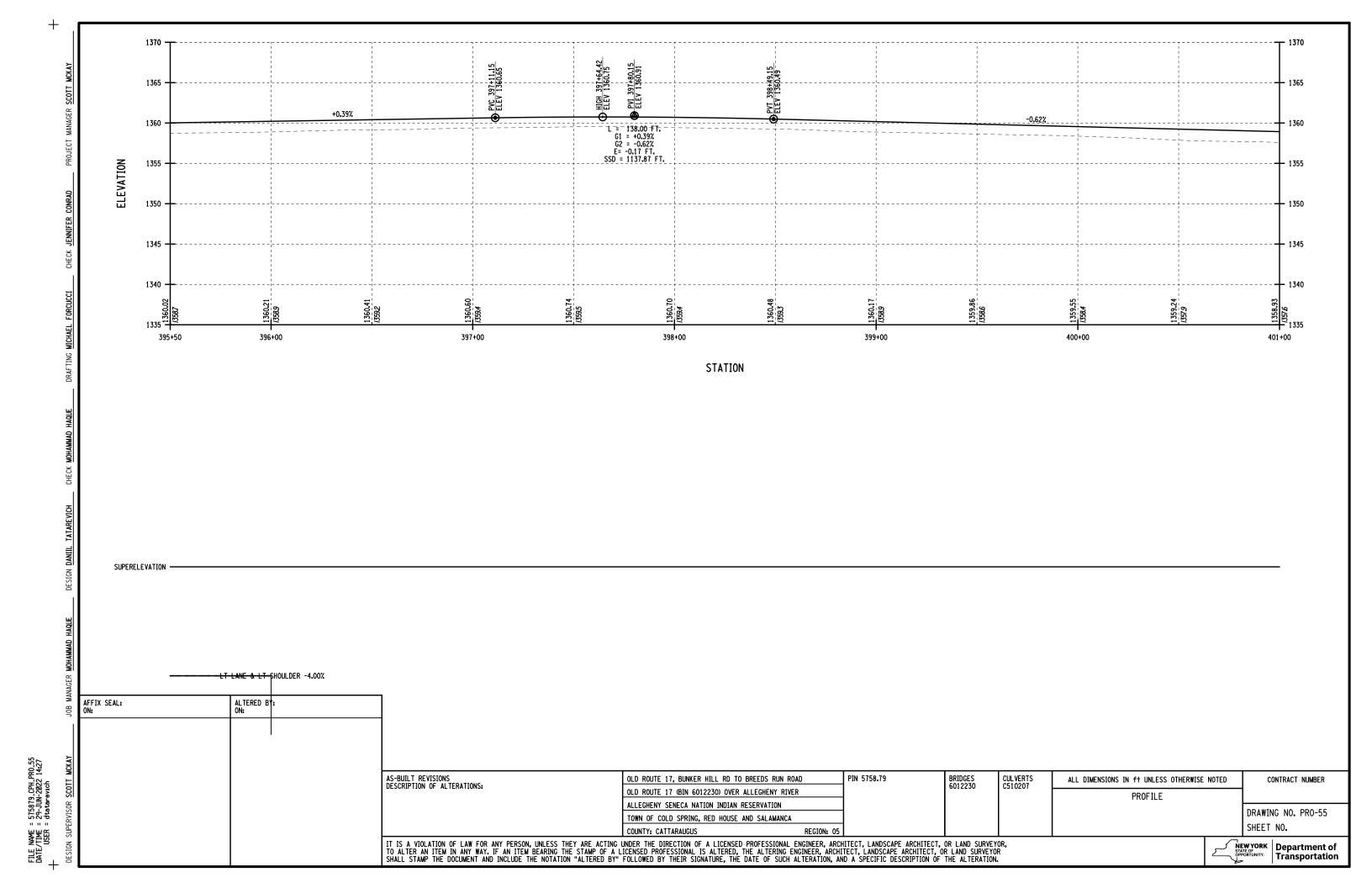


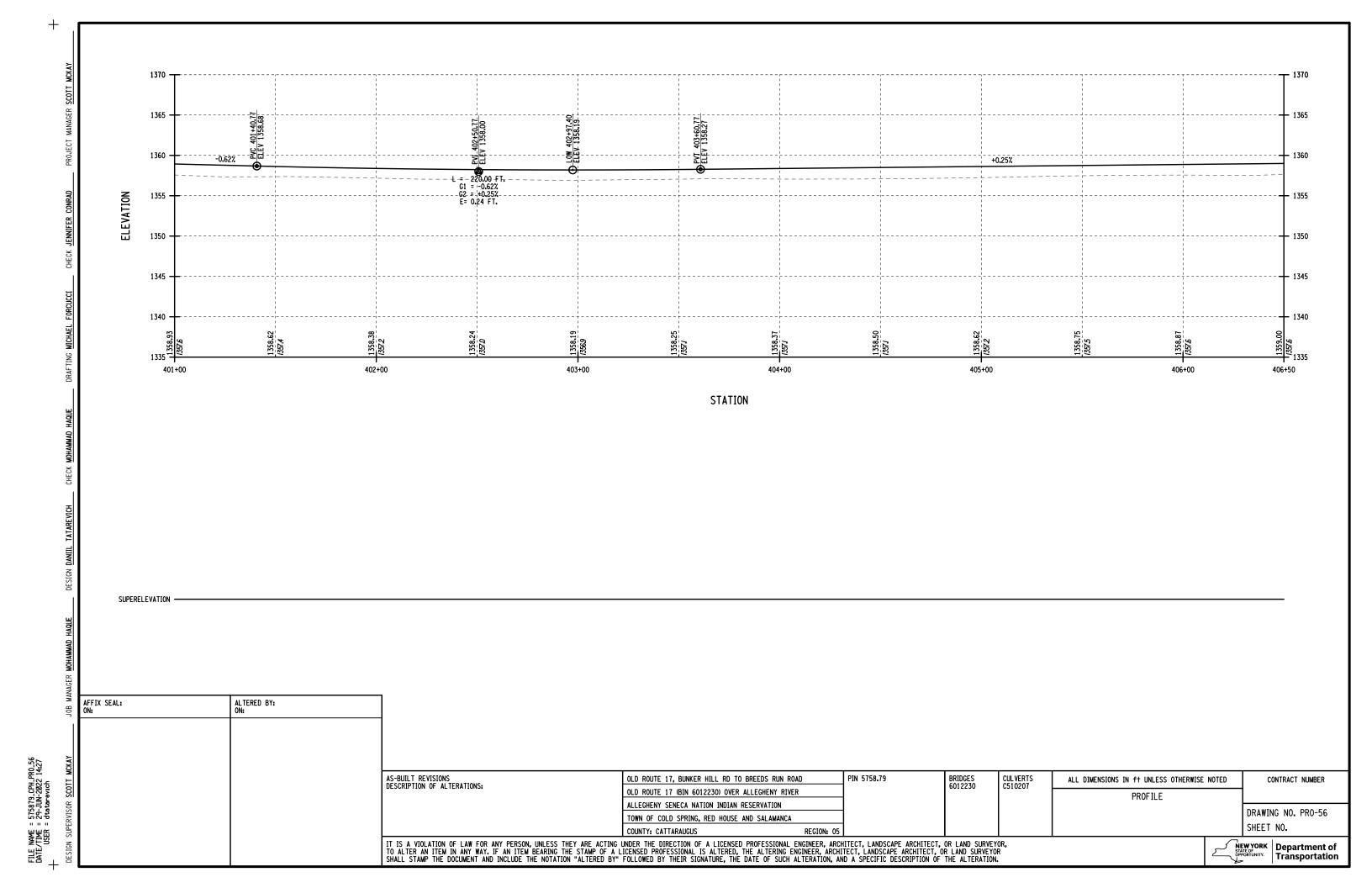




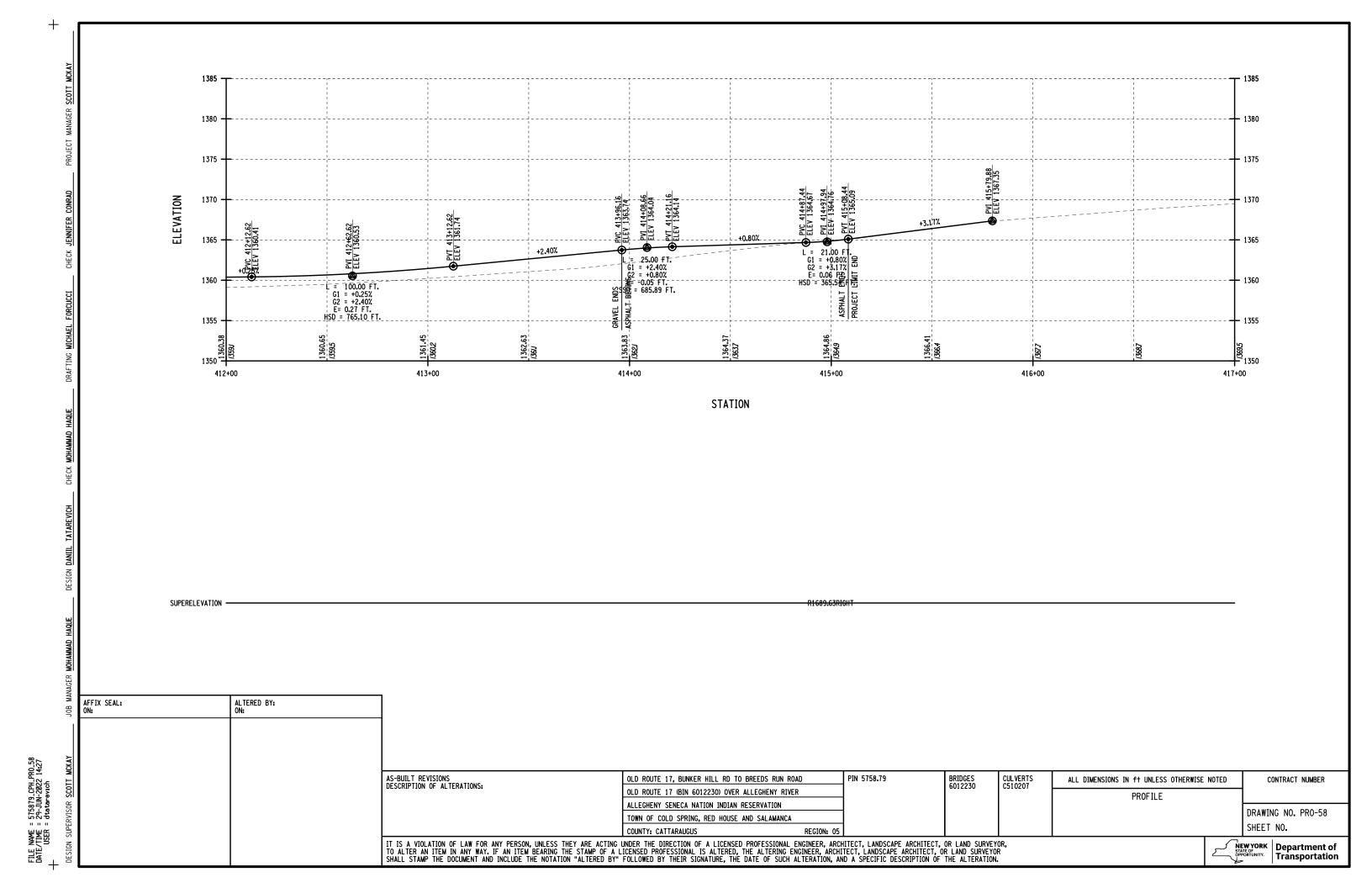


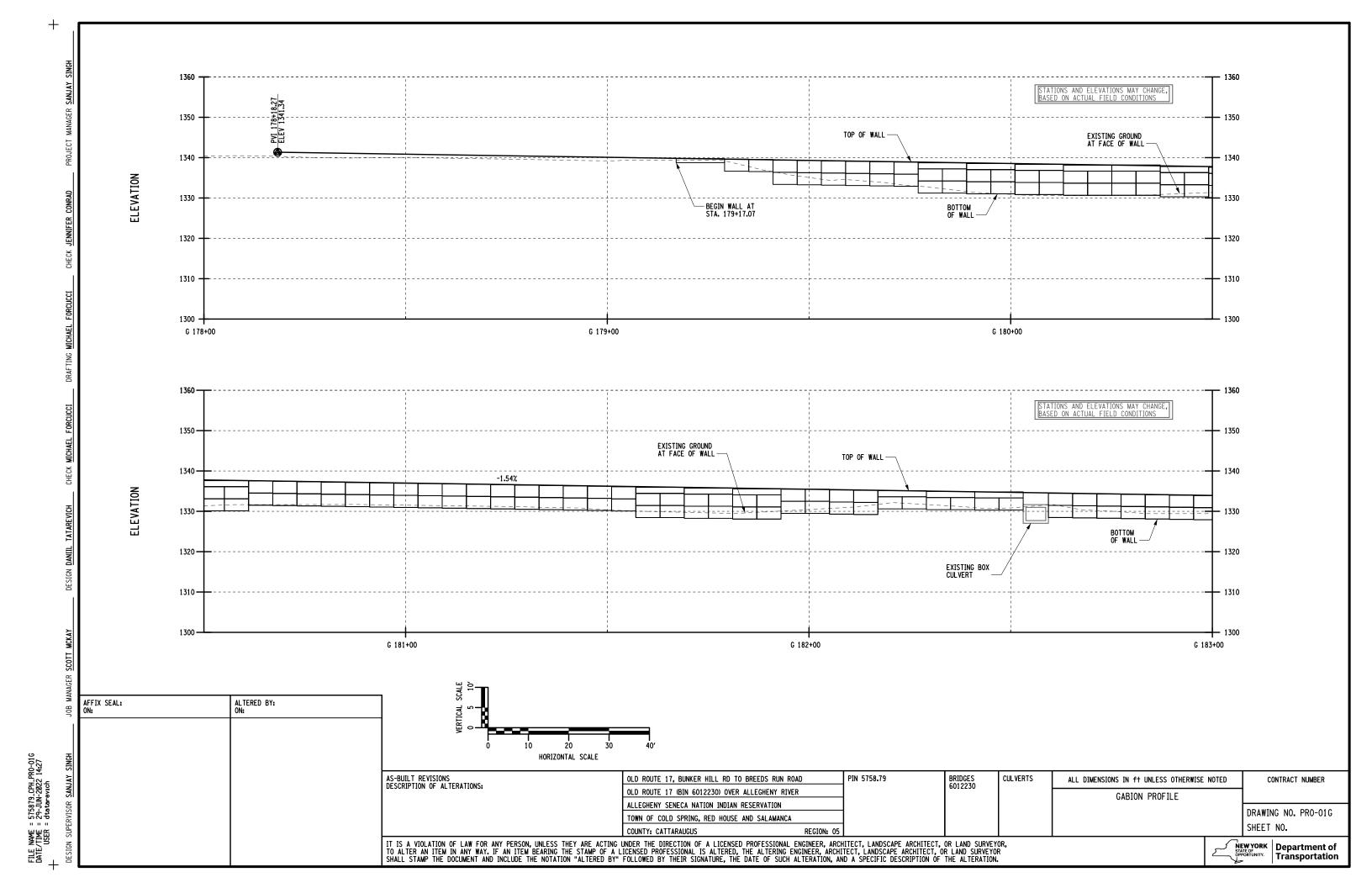


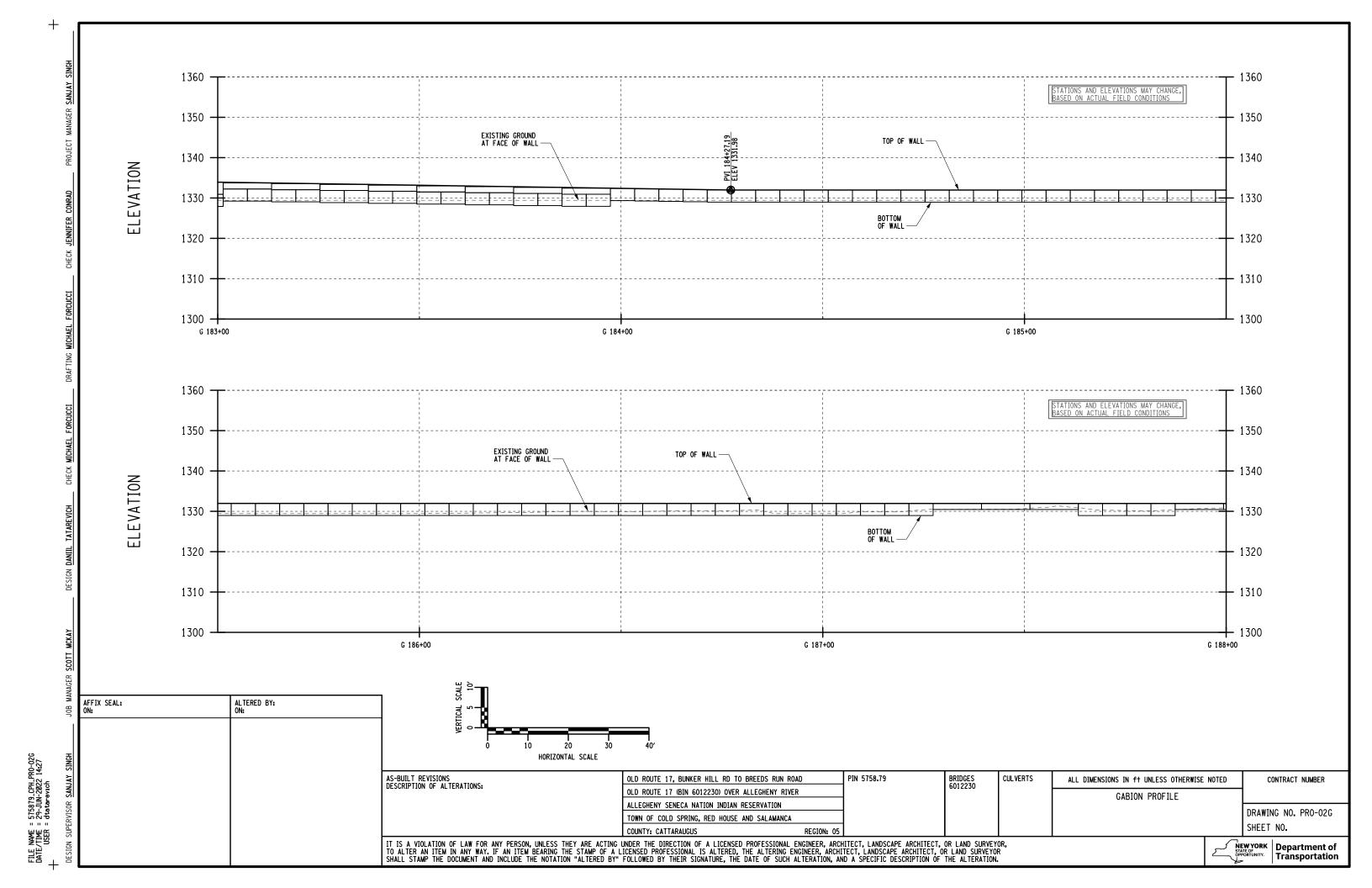


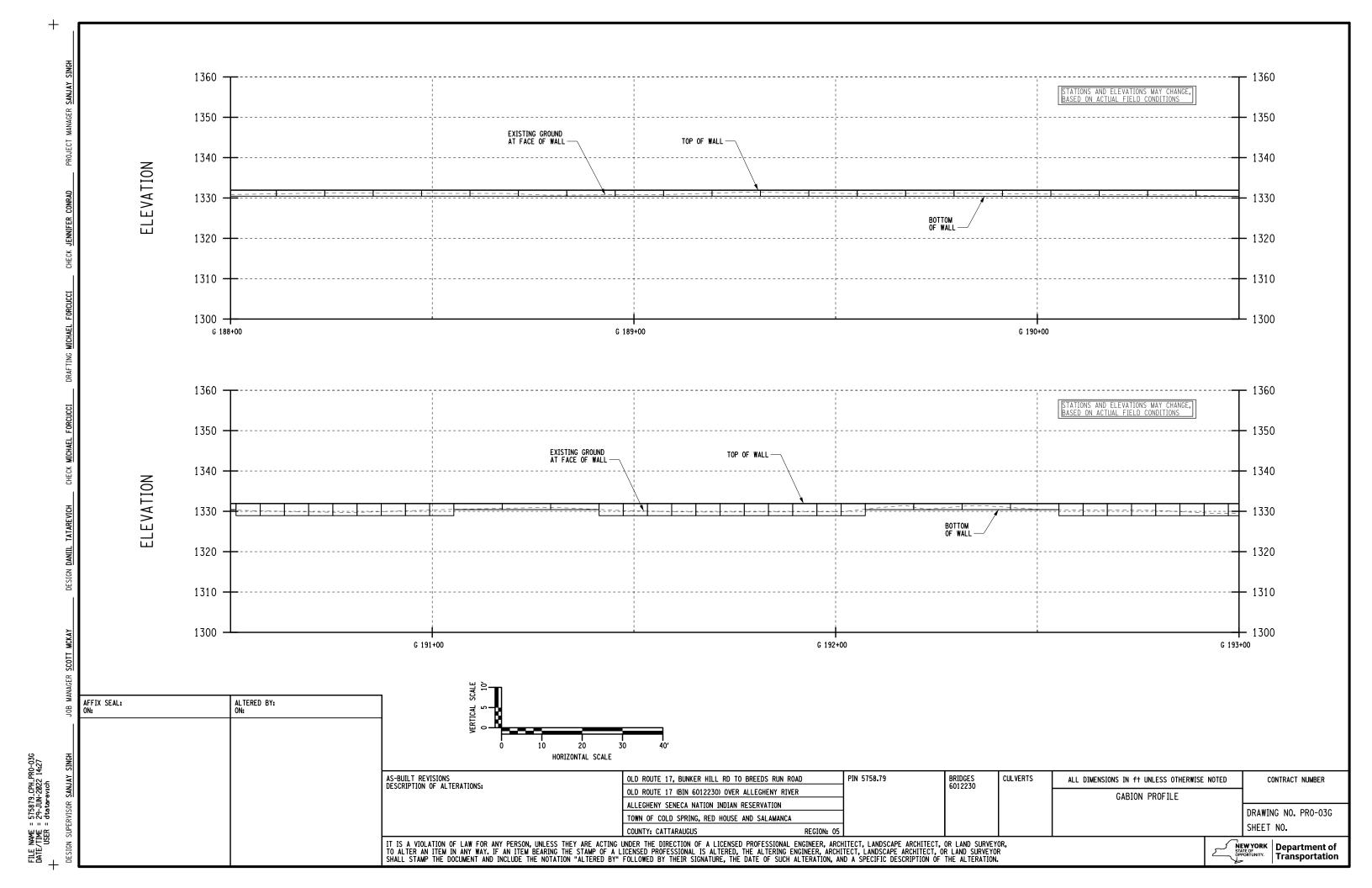


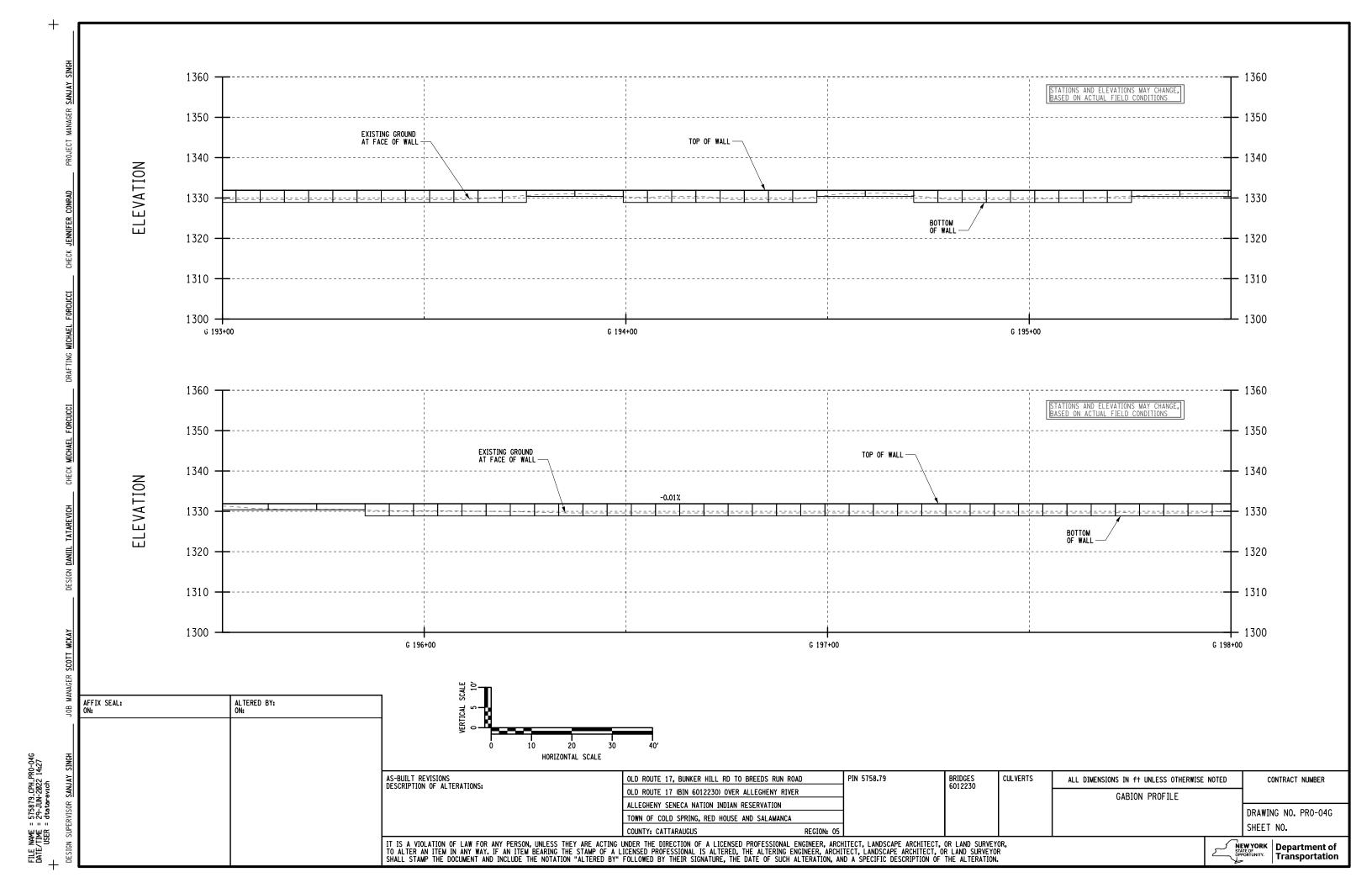
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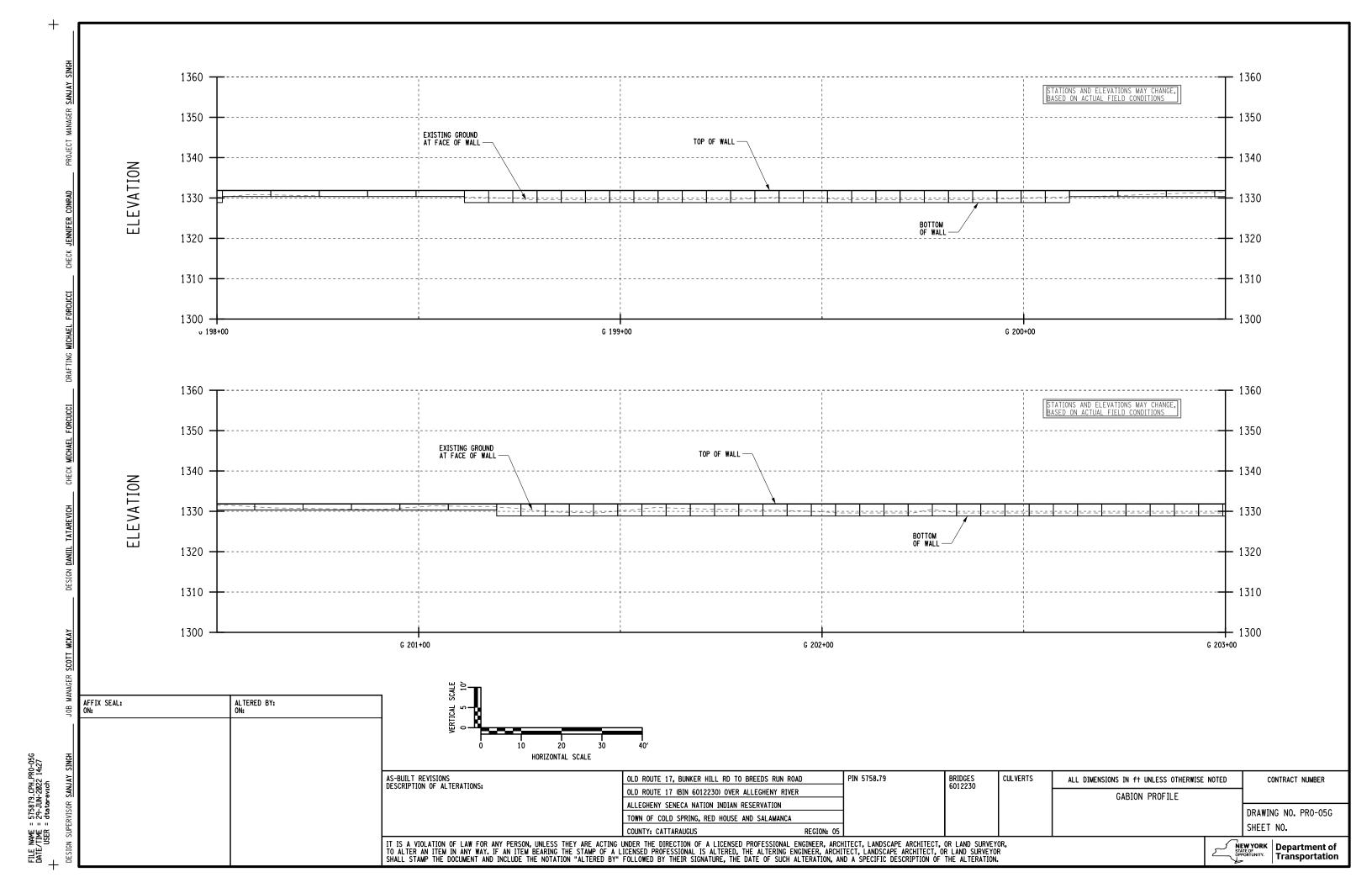


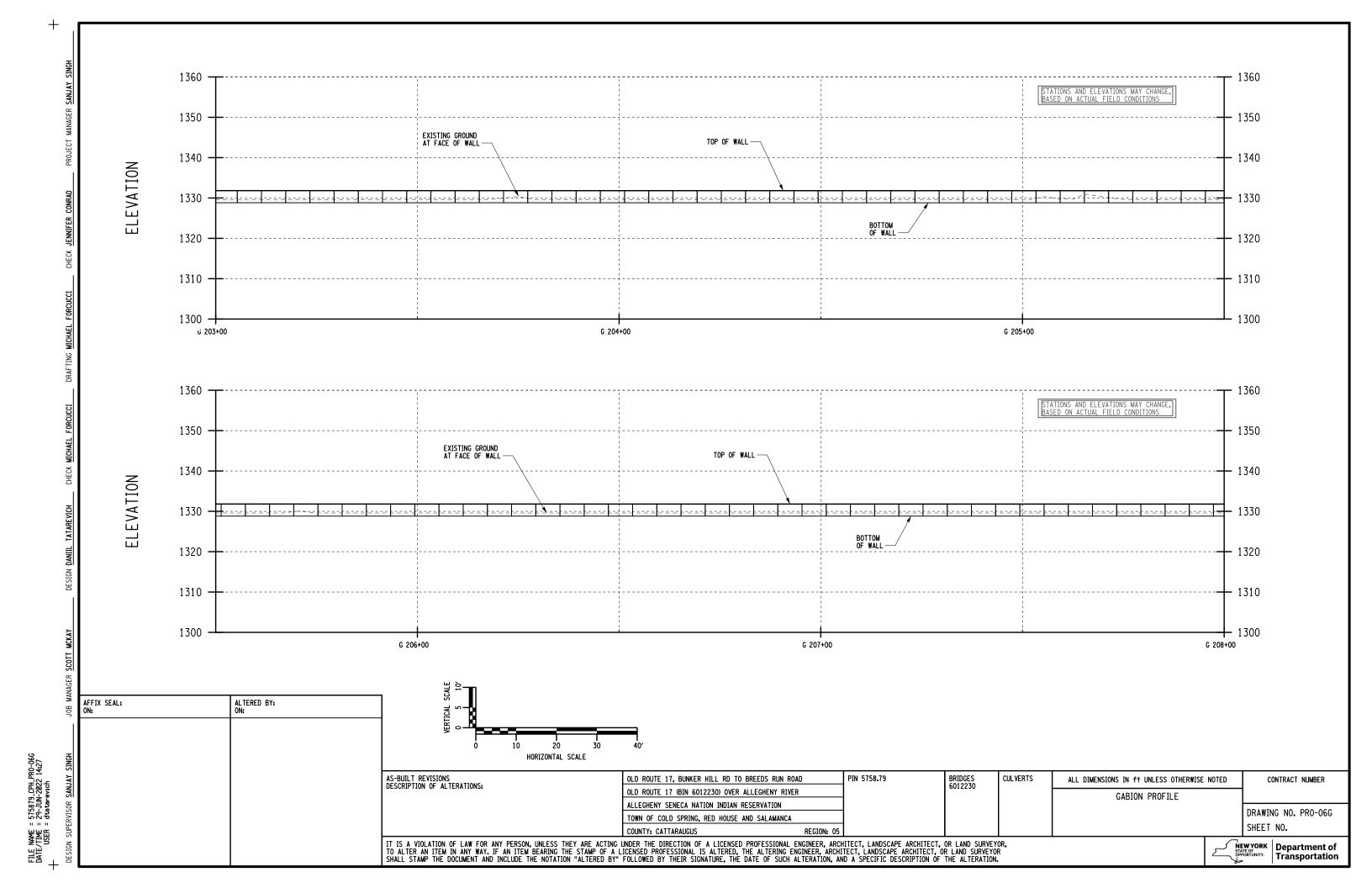


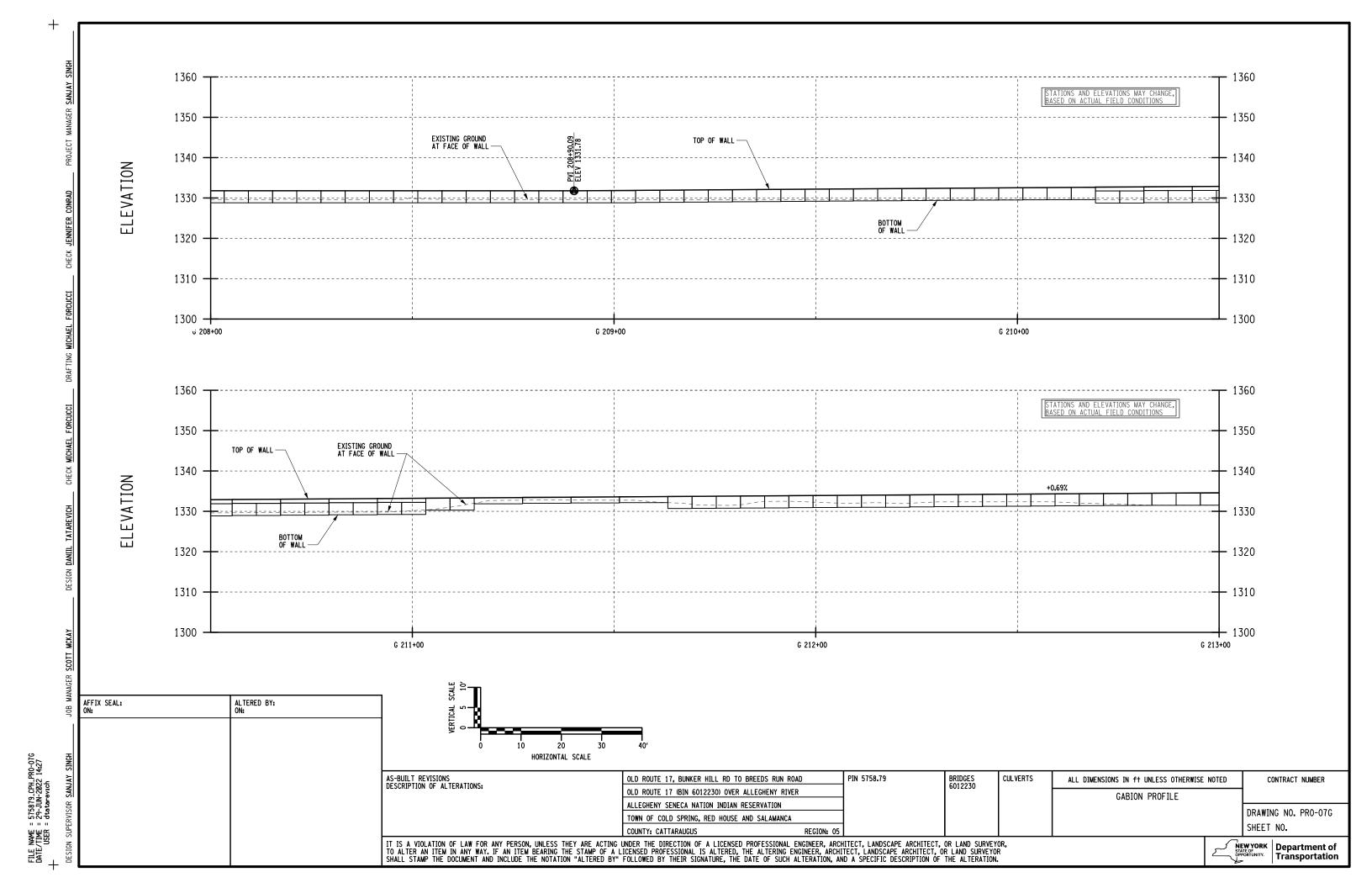


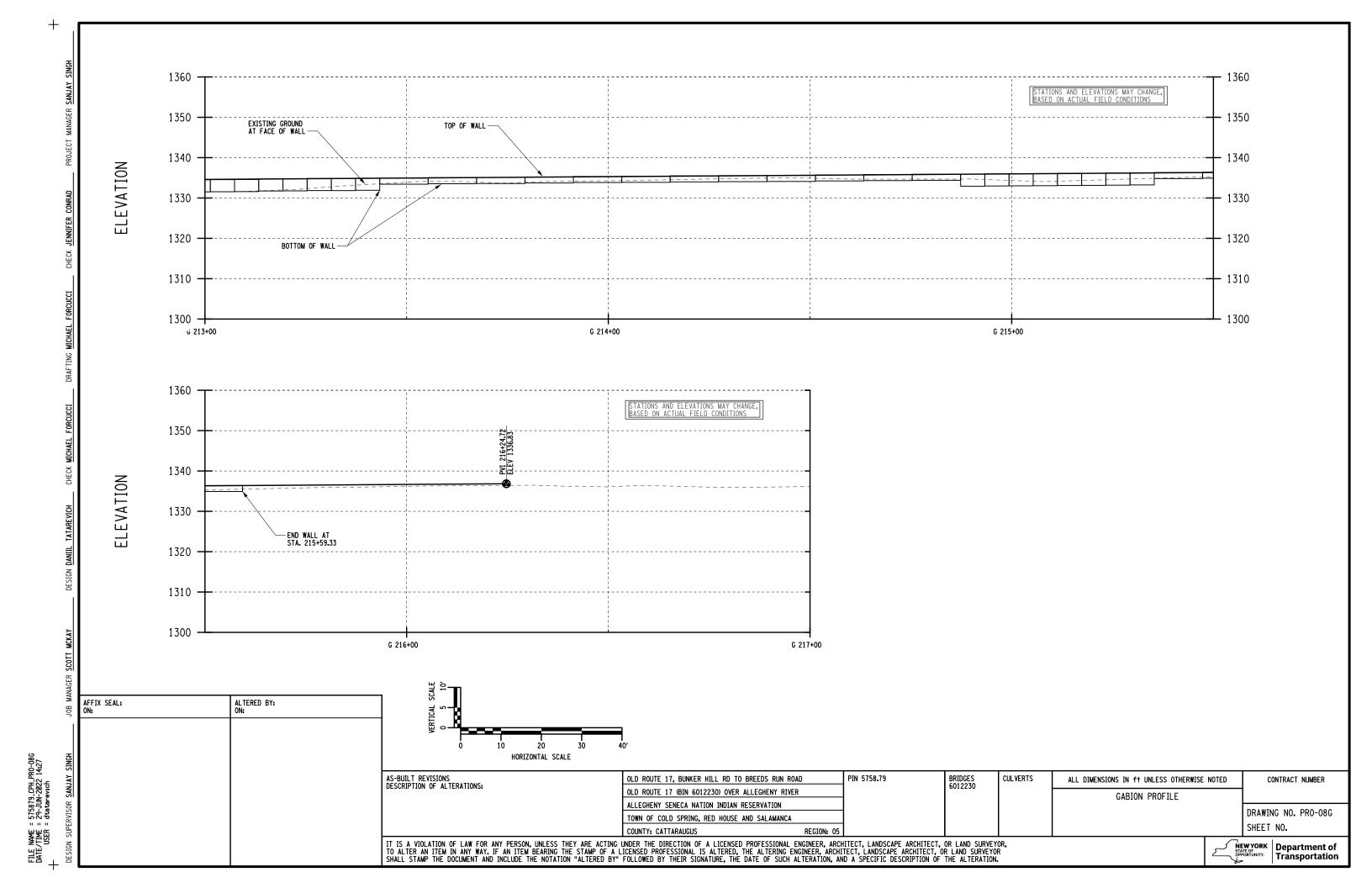


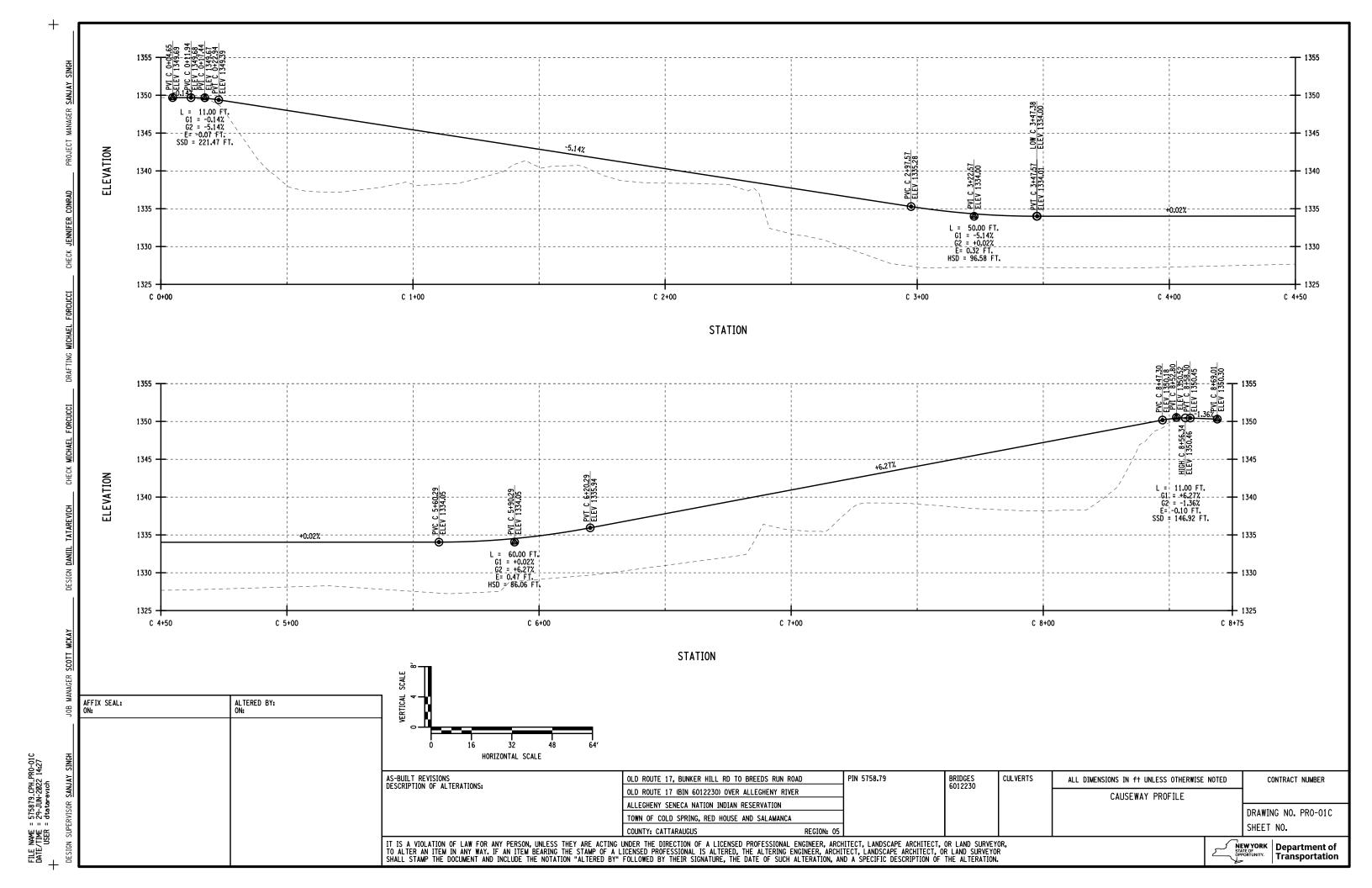


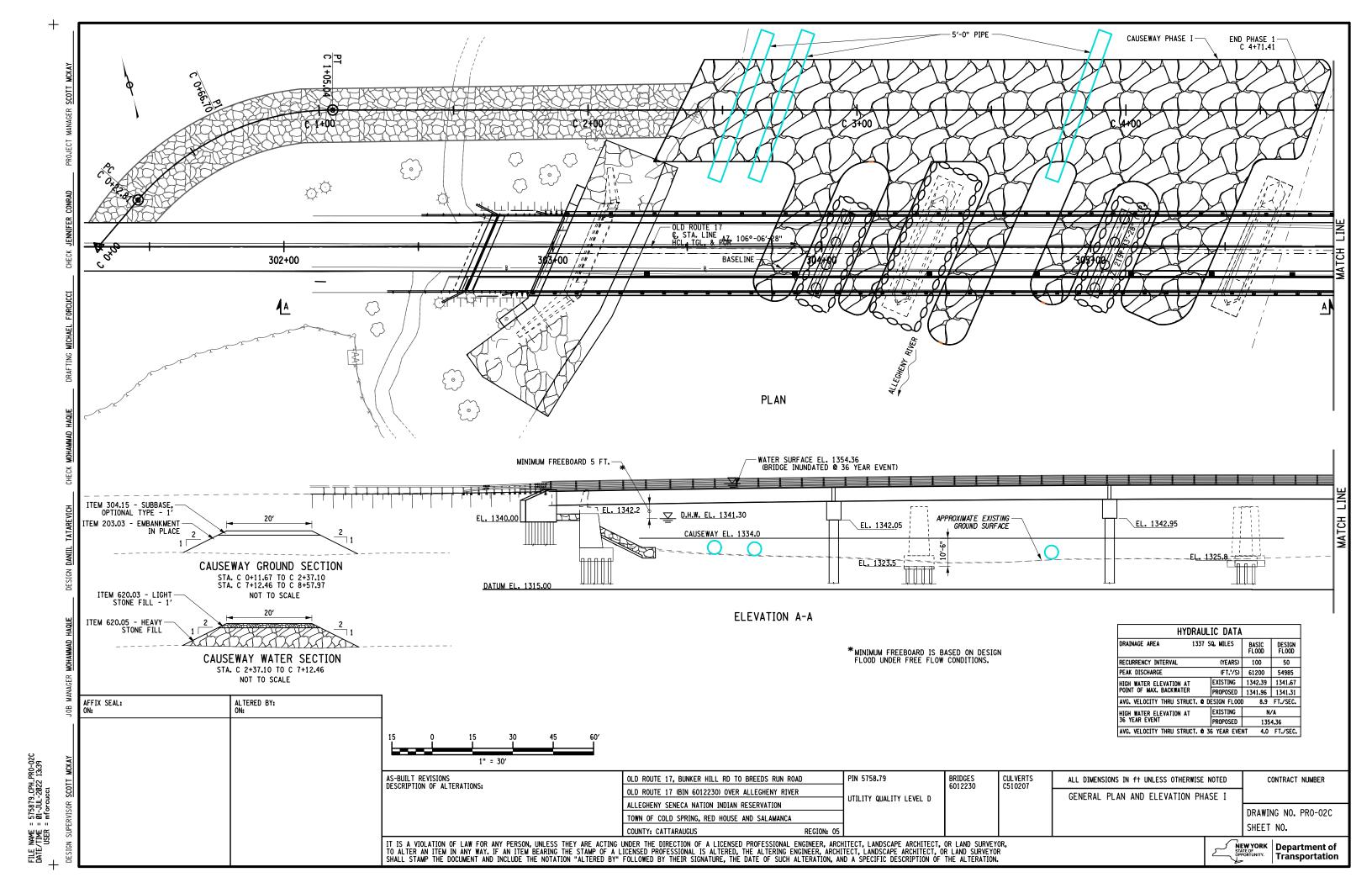


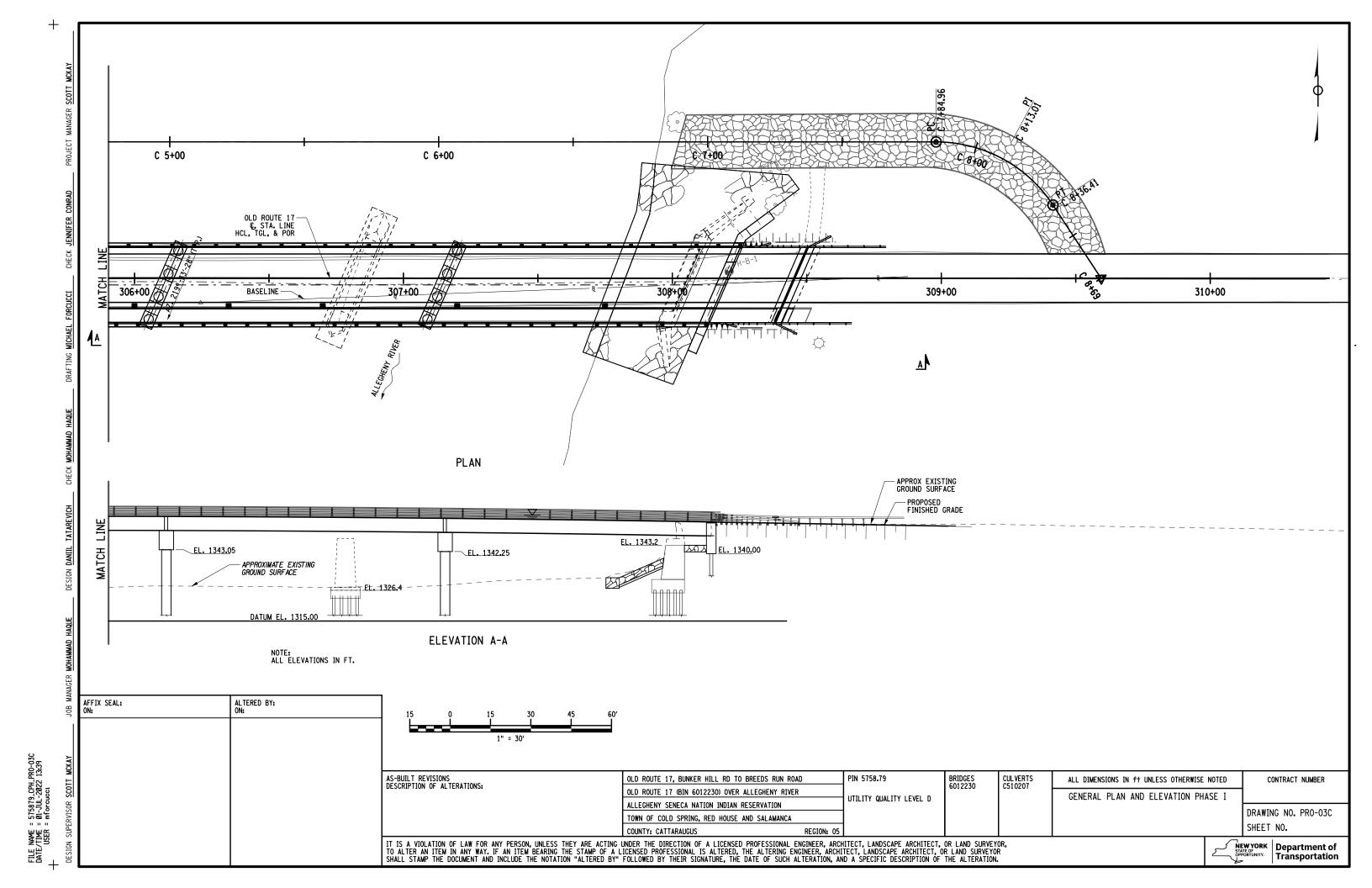


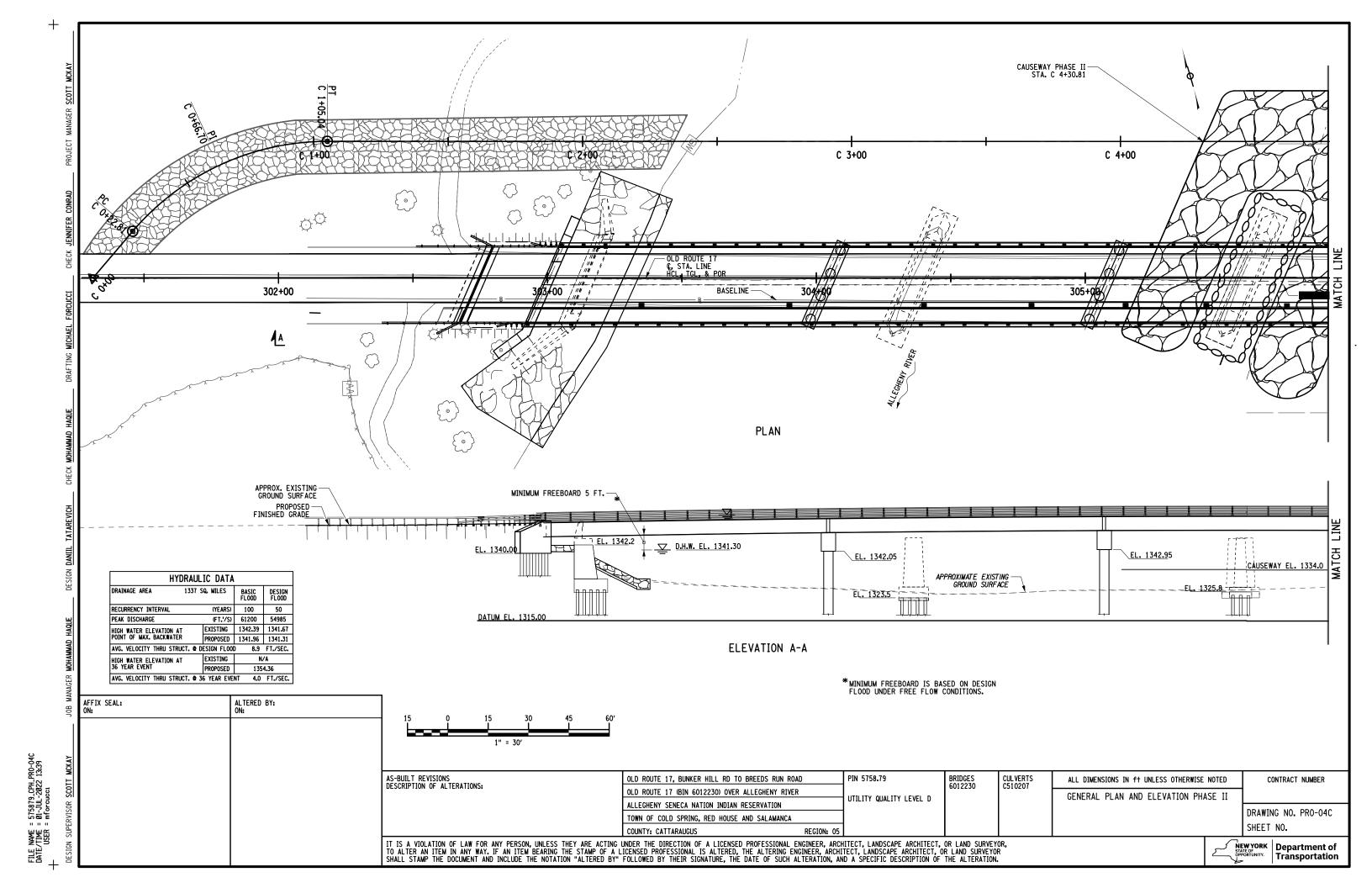


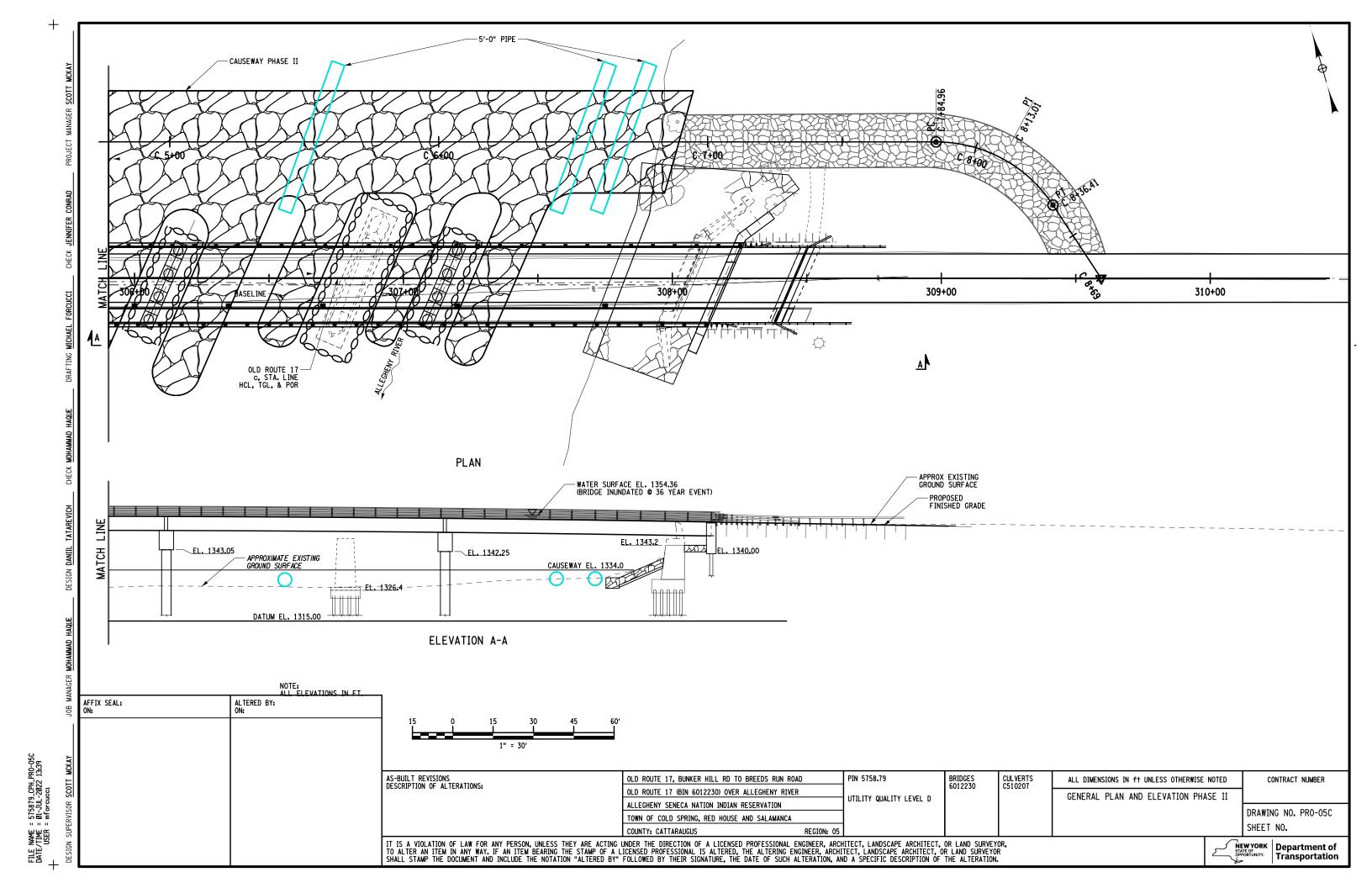


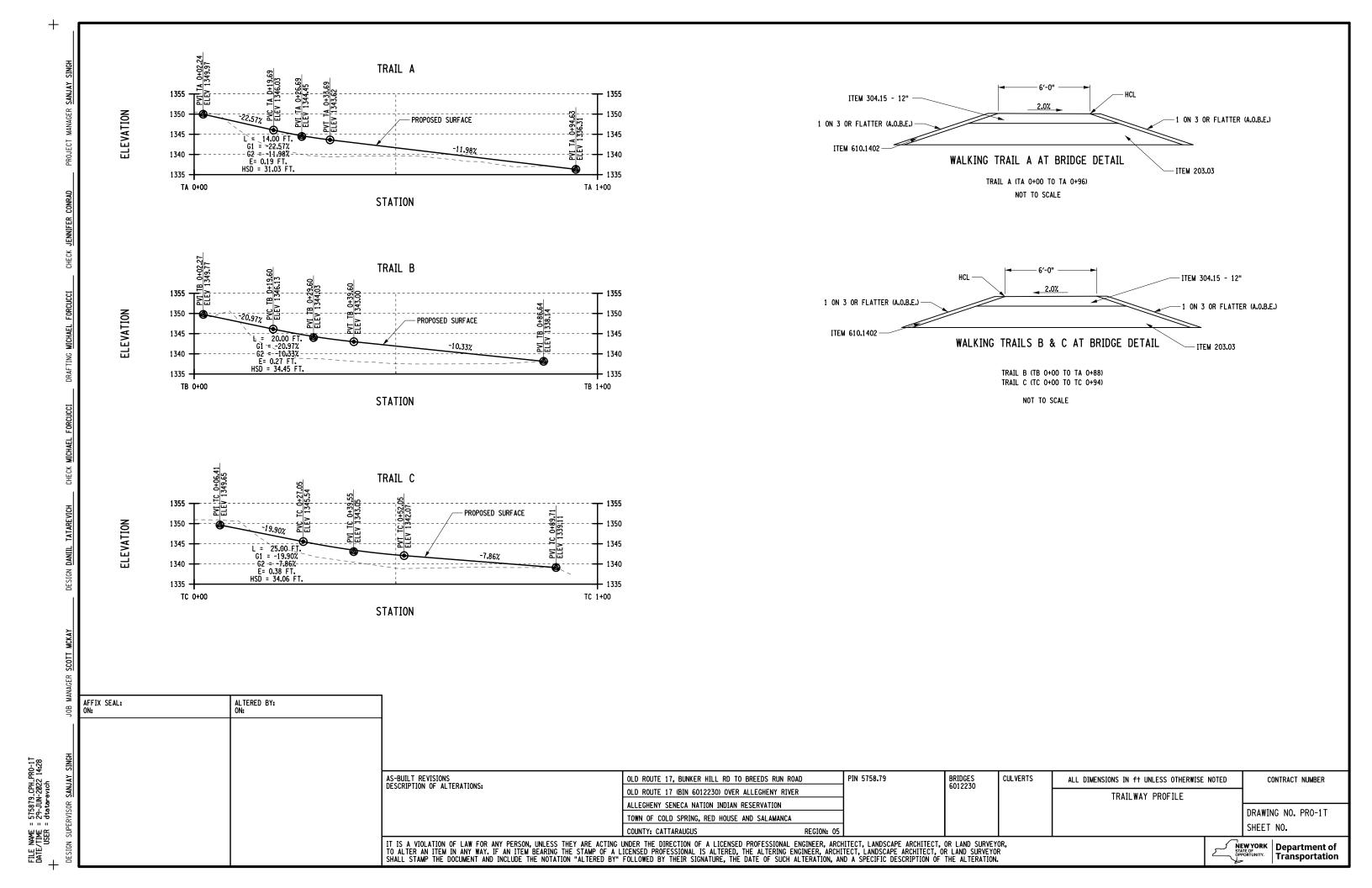












GABION WALL JUSTIFICATION

The existing concrete pavement was constructed in the 1930's and is in extremely poor condition. The roadway has not been maintained in over 40 years. The roadway from STA 179+20 +/- to STA 215+60 is immediately adjacent of the waterway of the reservoir and over the years the wave action and flow of the Allegany Reservoir has undermined the roadway (pictures below). It is necessary to install a 2,656-foot gabion wall along the USGS mapped portion of the Allegany River to protect the proposed roadway from undermining and erosion from the reservoir (total gabion wall is 3600-ft). NYSDOT is requesting that the permit fees associated with this activity be waived as the work is essential to complete the project and ensure the roadway remains in a safe and stable condition in the future.



WORK IN THE WATERWAY EXTENSION JUSTIFICATION

As per the proposed construction schedule (see attached) we anticipate that the contractor will need to work within the waterway by April 1 in order to construct the causeway, complete the demolition and construct the first ½ the bridge and remove the phase 1 causeway in the fall by November 1. The same schedule will need to be followed the 2nd construction season. The contractor will coordinate with SNI prior to construction on what, if any, waivers are needed for extending the work within water window.

Project Schedule

Design Approval: Anticipated September 2022

Let Date: December 2022

Construction: Sequence of Construction (see below) **Anticipated Construction Completion:** December 2024

Description of Proposed Work

Road Work

The proposed roadway work will primarily consist of reshaping the roadside drainage ditches to properly drain the gravel road construction on top of the existing concrete pavement. This work will begin at intersection of Old Route 17 and Bunker Hill Road to the west approach of the Red House Bridge (approximately 3.8 miles) then continue from the east approach of the bridge approximately 2.1 miles east toward the intersection of Breed Run Road. After the ditch and drainage work is complete the gravel road will be constructed using two 6" lifts of subbase with an intermediate layer of Tensar TriAx Geogrid. This roadbase will be topped with a 3" well graded gravel intended for gravel roadway construction. The gravel roadway will be treated with calcium chloride to keep dust under control and to provide a hard compacted surface. Some small culvert replacements, installation of erosion control measures, and guiderail work will also be part of the roadway work.

Bridge Work

The proposed work at BIN 6012230 consists of a complete bridge replacement. A causeway will be necessary to access the bridge from both sides of the riverbank and provide a working platform for construction activities. Barge construction was considered but, is not feasible due to the unpredictability of the water levels and low water levels would strand the barge. Turbidity curtains and cofferdams will be necessary for the removal of the three existing piers, construction of the four proposed piers, and installation of the heavy stone fill at the beginning and ending abutments.

The causeway and bridge construction will be completed in two phases, so the causeway will not block the entire river channel. The causeways will be constructed first, by placing heavy stone fill to provide a porous base. Then, geotextile material will be placed over the heavy stone fill and a layer of subbase will be compacted on top the stone fill base to provide a stable passable surface to work from. No excavation will be necessary to place the stone for construction of the causeways.

Since the proposed bridge alignment is essentially in the same location as the existing bridge, the two phased demolition of the existing bridge and construction of the new bridge will be done utilizing road closure traffic control. The preliminary plans for the bridge replacement and phased causeways can be found in Appendix 1.

Phase 1

The first causeway will be built in the spring of 2023, and it will extend approximately 250 feet into the river from the west shoreline, north of the bridge. This causeway is anticipated to be constructed with three, five-foot diameter pipes to help maintain continuous flow of the river throughout construction. The causeway will be used to remove approximately half of the existing superstructure, the existing pier 1, and then construct proposed pier 1, pier 2, and the beginning abutment. The causeway will also be used as a platform to set steel between the newly constructed abutment and piers. The first causeway will be removed in the fall of 2023.

Phase 2

In the spring of 2024, the second causeway will be built from the east shoreline and extended approximately 250 feet into the river. This causeway is anticipated to be constructed with three, five-foot diameter pipes to help maintain continuous flow of the river throughout construction. The causeway will be used to remove approximately half of the existing superstructure, the existing pier 2 and pier 3 and then to construct pier 3, pier 4, and the ending abutment. The causeway will remain in place after the demolition of the existing piers and the construction of the new piers, so it can be used as a platform to set the steel on the newly constructed abutment and piers. The causeway will also be used as access to pour the continuous concrete deck on the bridge. The second causeway will be removed in the fall of 2024.

There will be no in-water work prior to the completion of the mussel salvage and relocation survey. It is anticipated that the mussel salvage and relocation survey will take place in August/September 2022 in anticipation of the phase 1 causeway construction beginning in the spring of 2023 (to be removed in the fall of 2023). The Phase 2 causeway will be constructed in the spring of 2024 and remain until the fall of 2024. SNI stream restriction dates apply, with work within water limited to June 1 through August 31; however due to the expected length of time needed for the proposed work, a waiver is anticipated to be required, as discussed in the application for the SNI Construction within Waterways Permit. In-water work is anticipated to be completed by the end of December 2024.

The following is the anticipated sequence of construction activities involving in-water work:

2023 Construction Season (Spring 2023 to Fall 2023)

- 1. Take pre-construction photographs of riverbanks and any floodplains.
- 2. Installation of temporary sediment control filter logs, silt fencing and other erosion and sediment controls as needed.
- 3. Clearing and grubbing of the area north of both the east and west bridge abutments.
- 4. Installation of a temporary construction roadway on west bank to the north of the bridge. The temporary roadway will be constructed using 6"-12" of subbase over geotextile fabric.
- 5. Install the turbidity curtains and phase 1 causeway. Place the pipes and stone fill for the causeway. Place geotextile fabric over the heavy stone fill and place a minimum of 6" of subbase over the causeway (the subbase may be deeper in some locations due to the unevenness of the heavy stone fill).
- 6. Demolition of the west half of the superstructure.
- 7. Demolition of the beginning (west) abutment according to plan.
- 8. Installation of turbidity curtain and cofferdam around existing pier 1. The cofferdam is anticipated to be in place until pier 1 is demolished according to plan.
- 9. Installation of turbidity curtains and cofferdams around beginning (west) abutment.
- 10. Construct the beginning (west) abutment.
- 11. Installation of turbidity curtains and cofferdams in the new pier 1 & 2 locations.
- 12. Install the drilled shafts for the piers while cofferdams are in place. Remove the turbidity curtains and cofferdams sequentially as the drilled shafts are installed.
- 13. After abutments are complete, place heavy stone fill according to plan around the beginning abutment.
- 14. Construct the first half (west side) of the bridge.

- 15. Remove the temporary phase 1 causeway and pipes.
- 16. Remove turbidity curtain after removal of phase 1 causeway.

2024 Construction Season (Spring 2024 to Fall 2024)

- 17. Install a temporary construction roadway on east bank to the north of the bridge. The temporary roadway will be constructed using 6"-12" of subbase over geotextile fabric.
- 18. Install the turbidity curtains and phase 2 causeway. Place the pipes and stone fill for the causeway. Place geotextile fabric over the heavy stone fill and place a minimum of 6" of subbase over the causeway (the subbase may be deeper in some locations due to the unevenness of the heavy stone fill).
- 19. Demolition of the east half of the superstructure.
- 20. Demolition of the ending (east) abutment according to plan.
- 21. Installation of turbidity curtains and cofferdams sequentially around the existing pier 2 and 3. The cofferdams are anticipated to be in place until piers 2 & 3 are demolished according to plan.
- 22. Install turbidity curtains and cofferdams around ending (east) abutment.
- 23. Construct the ending (east) abutment.
- 24. Install turbidity curtains and cofferdams in the new pier 3 & 4 locations.
- 25. Install the drilled shafts for the piers while cofferdams are in place. Remove the turbidity curtains and cofferdams sequentially as the drilled shafts are installed.
- 26. After ending abutment is complete, place heavy stone fill according to plan around the end abutment.
- 27. Construct the second half (east side) of the bridge.
- 28. Remove the temporary phase 2 causeway and pipes.
- 29. Remove turbidity curtain after removal of phase 2 causeway.
- 30. Restore disturbed areas.
- 31. Remove remaining temporary sediment control measures.