

CATTARAUGUS COUNTY

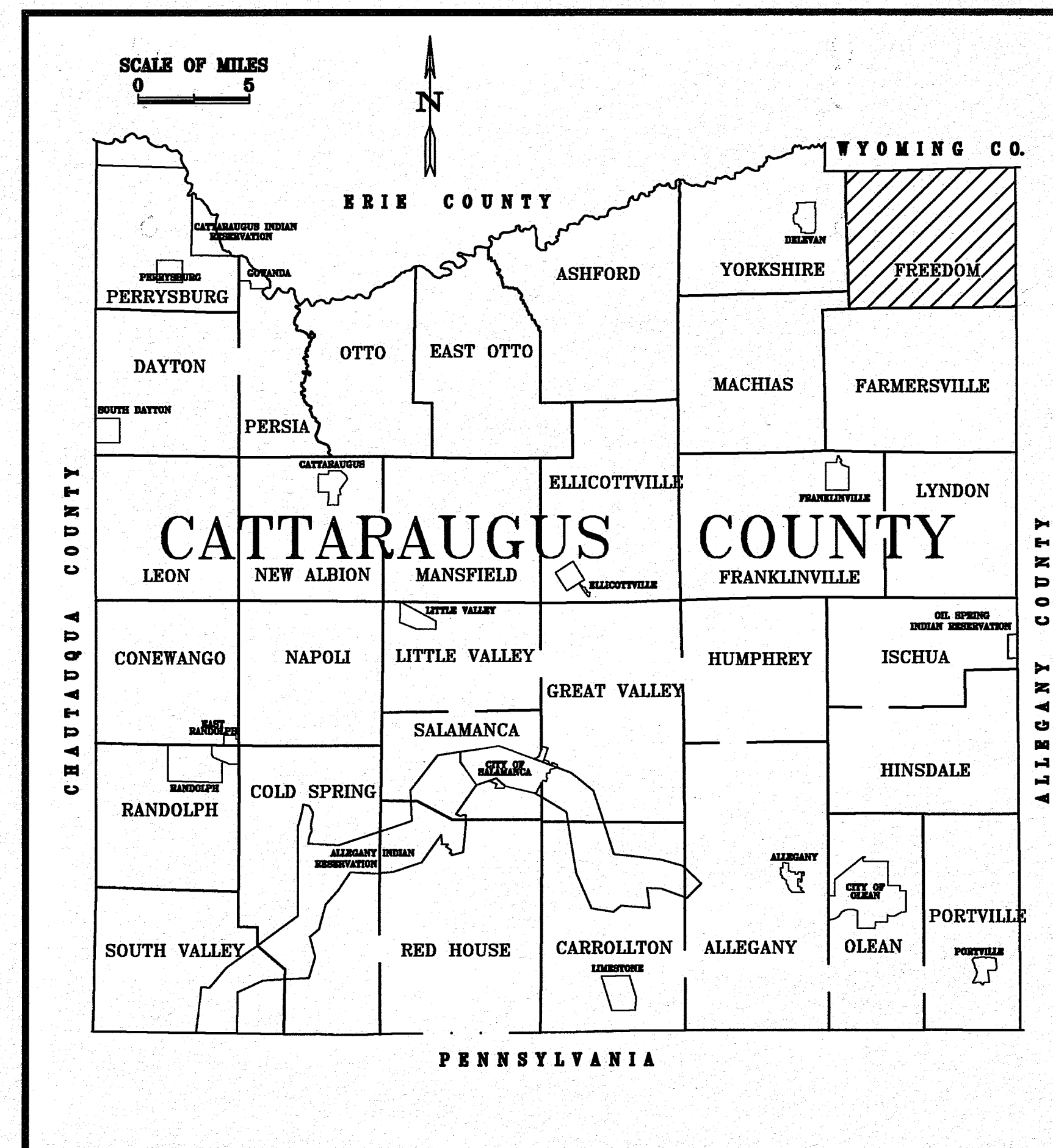
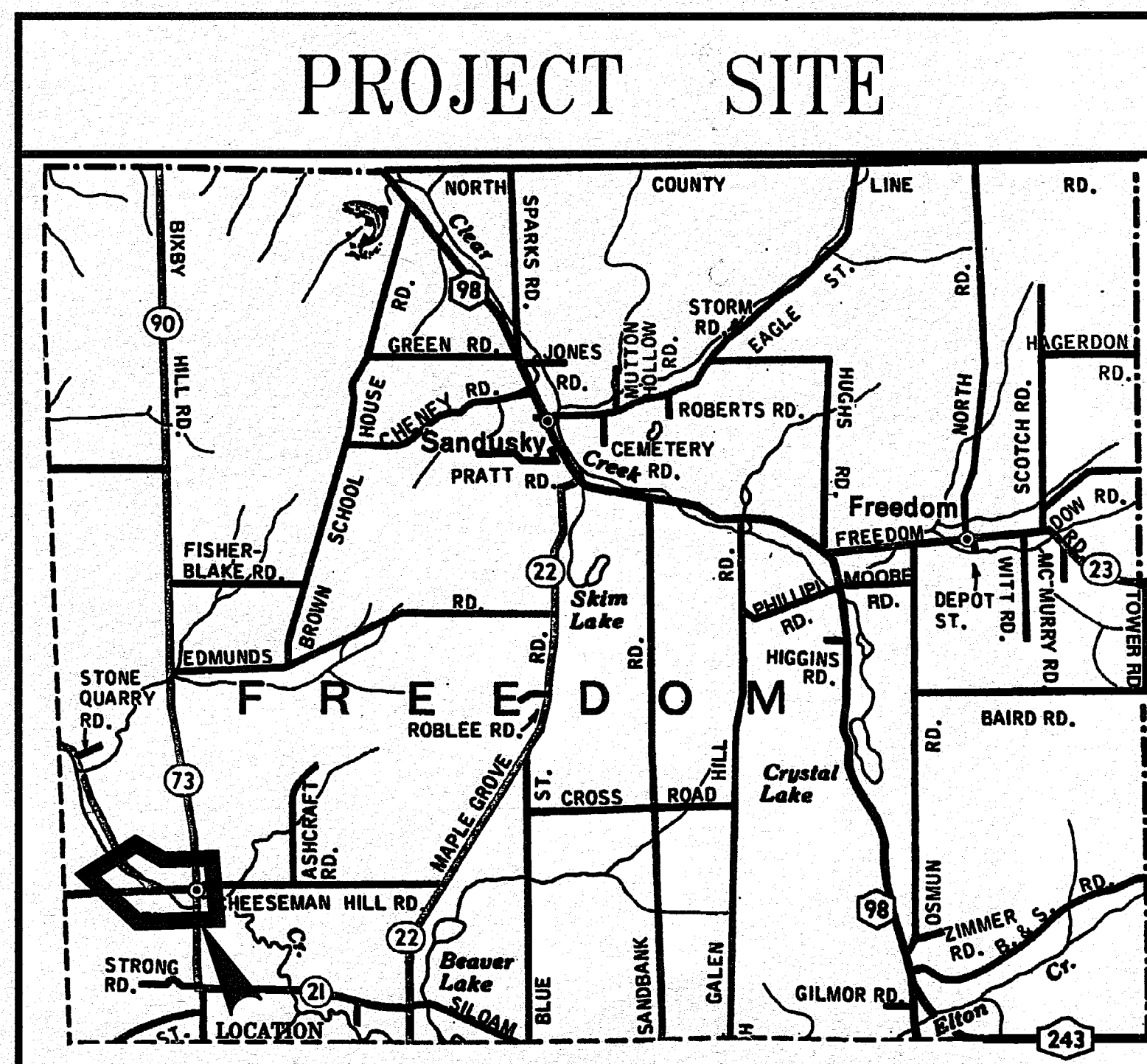
DEPARTMENT OF PUBLIC WORKS

COUNTY ROAD 36 AND COUNTY ROAD 21 INTERSECTION RECONSTRUCTION & FREEDOM 4 BRIDGE DECK REPLACEMENT TOWN OF FREEDOM, CATTARAUGUS COUNTY, NEW YORK

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SHEET INDEX

SHEET	DESCRIPTION
1 of 25	COVER
2 of 25	GENERAL NOTES & QUANTITIES
3 of 25	SURVEY CONTROL SHEET
4 of 25	EROSION CONTROL PLAN
5 of 25	DETOUR PLAN
6 of 25	BRIDGE CLOSURE PLAN
7 of 25	PLAN & PROFILE 1 OF 4
8 of 25	PLAN & PROFILE 2 OF 4
9 of 25	PLAN & PROFILE 3 OF 4
10 of 25	PLAN & PROFILE 4 OF 4
11 of 25	PROFILES
12 of 25	TYPICAL ROADWAY SECTIONS & DETAILS
13 of 25	MISCELLANEOUS DETAILS AND TABLES
14 of 25	TYPICAL BRIDGE SECTIONS
15 of 25	EXISTING & PROPOSED DECK PLANS
16 of 25	EXISTING & PROPOSED ABUTMENT PLANS
17 of 25	EXISTING SECTIONS & DETAILS
18 of 25	EXISTING BEAM DETAILS
19 of 25	PROPOSED SECTION & DETAILS 1 OF 2
20 of 25	PROPOSED SECTION & DETAILS 2 OF 2
21 of 25	EXISTING & PROPOSED GUIDE RAIL PLAN
22 of 25	BRIDGE RAILING 1 OF 4
23 of 25	BRIDGE RAILING 2 OF 4
24 of 25	BRIDGE RAILING 3 OF 4
25 of 25	BRIDGE RAILING 4 OF 4

GENERAL NOTES:

- DESIGN SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH ALL PROVISIONS IN EFFECT AS OF MAY 1, 2019. (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: $f'c=3,000$ PSI)
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED MAY 1, 2019 WITH CURRENT ADDITIONS AND MODIFICATIONS.
- HOT MIX ASPHALT ITEMS (ITEMS 403) SHALL BE IN CONFORMANCE WITH NYS DOT STANDARD SPECIFICATION DATED JANUARY 1, 2012
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP AND ERECTION DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN ENGLISH UNITS.
- THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MANUAL FOR BRIDGE MAINTENANCE.
- ALL EXPOSED EDGES OF CONCRETE INCLUDING EDGES OF EXPANSION, CONTRACTION AND CONSTRUCTION JOINTS SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.
- CORROSION INHIBITOR SHALL BE ADDED TO THE ITEMS 557.0509 AND 557.2009 AT THE RATE OF 4 GALLONS PER CUBIC YARD OF CONCRETE AND SHALL BE PAID FOR UNDER ITEM C557.950000CA.
- THE EXISTING ROAD AND BRIDGE IS OWNED AND MAINTAINED BY CATTARAUGUS COUNTY. NO CHANGES TO THE MAINTENANCE AND JURISDICTION WILL BE MADE.
DILUTE TACK COAT, ITEM 407.0102, SHALL BE PLACED BETWEEN MILLED SURFACE AND TOP COURSE ONLY.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO PREPARING HIS/HER BID PROPOSAL TO FAMILIARIZE HIMSELF/HERSELF WITH THE CONDITIONS THAT EXIST.
- ALL WORK ON THIS PROJECT IS TO BE CONDUCTED WITHIN THE ROAD RIGHT-OF-WAY AND/OR EASEMENT LIMITS. ANY DAMAGE CREATED BY THE CONTRACTOR OR HIS REPRESENTATIVES OUTSIDE THE ROAD RIGHT-OF-WAY, SHALL BE REPAIRED TO THE OWNER'S REPRESENTATIVE'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
- ALL AREAS DISTURBED OUTSIDE OF THE WORK AREA ARE TO BE TOPSOILED AND SEEDED TO THE REQUIREMENTS OF ITEM 610.1401 AND 613.1602 AT THE CONTRACTOR'S EXPENSE.
- UTILITIES - CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT AND COORDINATE ALL WORK WITH THE AFFECTED UTILITY COMPANIES AS HE COMPLETES THE NECESSARY SURVEY ORNAMENTATION ALONG THE PROJECT LIMITS. CONTRACTOR IS RESPONSIBLE TO FACILITATE A SCHEDULE TO KEEP UTILITY COMPANIES PRODUCTIVE IN THEIR DAY-TO-TO JOB TASKS.

SUBSTRUCTURE NOTES

- FINISHING CONCRETE SURFACES: IMMEDIATELY AFTER FORMS HAVE BEEN REMOVED, SURFACES EXPOSED TO VIEW SHALL HAVE ALL PROJECTIONS AND IRREGULARITIES REMOVED AND ALL CAVITIES NEATLY FILLED WITH MORTAR OF THE PROPORTION USED IN THE CONCRETE. ALL OTHER REQUIREMENTS OF SUBSECTION 555-3.08 OF NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 1, 2019.
- SHEET GASKET (TREATED BOTH SIDES), 728-06, SHALL BE PLACED ON THE TOP OF THE BACKWALL OF THE BEGIN ABUTMENT. TWO SHEETS SHALL BE USED; PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONCRETE DECK ITEM.

REMOVAL NOTES

- THE EXISTING CONCRETE BRIDGE SLAB SHALL BE REMOVED UNDER ITEM C580.06. ANY MISSING OR DAMAGED SHEAR STIRRUPS AND OR TIE-IN REINFORCEMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- EXCAVATION BELOW THE LIMITS IDENTIFIED ON THE PLANS WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND THE PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL WILL BE AS DIRECTED BY THE ENGINEER.
- RECORD PLANS FOR THE STRUCTURE ARE AVAILABLE.

SUPERSTRUCTURE NOTES

- TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED ACCORDING TO ITEM 559.18960118 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.

SUPERSTRUCTURE SLAB NOTES

- CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY ORDER THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
- LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.
- FINISHING MACHINE(S) SHALL BE OPERATED AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE FOR SKEW ANGLES BETWEEN 0° AND 50° WHEN THE SKEW ANGLE IS GREATER THAN 50° THE FINISHING MACHINE(S) SHALL BE OPERATED AT AN ANGLE OF 50°.

- WET BURLAP CURING BLANKETS ARE REQUIRED TO BE PLACED ON THE CONCRETE DECK WITH 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST. THE PLACEMENT OF THE TURF DRAG TEXTURE SHALL NOT INTERFERE WITH THESE REQUIREMENTS.
- IN THE EVENT THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY ORDER OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CLASS E CONCRETE OR AN ALLOWABLE SUBSTITUTION FOR CLASS E CONCRETE IS TO BE USED FOR ITEMS 557.0509 AND 557.2009. CLASS HP CONCRETE WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A TOP OF BEAM TABLE SHOWING THE ELEVATION OF THE TOP OF EACH BEAM AT THE CENTERLINE OF BEARINGS AND AT TENTH POINTS ALONG EACH BEAM TO DETERMINE PROPOSED SLAB THICKNESS. MINIMUM SLAB THICKNESS TO BE 6". TABLE SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

RECONSTRUCTION NOTES

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONFIRM ALL DIMENSIONS SHOWN ON THE PLANS IN THE FIELD.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES FOR THOSE ITEMS
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE COUNTY.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

STREAM PROTECTION AND EROSION CONTROL NOTES

- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.
- SILT FENCE, ITEM 209.13, SHALL BE ESTABLISHED AS SHOWN ON THE PLANS.
- STONE CHECK DAMS SHALL BE ESTABLISHED AS DIRECTED BY THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE SIGNAGE AND MAINTENANCE OF THE BRIDGE CLOSURE AND ASSOCIATED SIGNAGE. THE COUNTY SHALL SIGN AND MAINTAIN THE DETOUR. ALL SIGNAGE REQUIRED FOR THE BRIDGE CLOSURE SHALL BE INCLUDED IN THE UNIT PRICE BID BASIC WORK ZONE TRAFFIC CONTROL.

RIGHT-OF-WAY NOTES:

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.
- IF CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHT-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTION 105-10 AND 625)
- IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHT-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHT-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE LAND OWNER (STANDARD SPECIFICATIONS SECTION 105-15).
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

NOTE: ALL QUANTITIES ARE FOR THE CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES FOR HIS/HER INFORMATION.

TABLE OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
201.06	CLEARING AND GRUBBING	LS	1	
203.02	UNCLASSIFIED EXCAVATION & DISPOSAL	CY	1,737	
203.03	EMBANKMENT IN PLACE	CY	1,235	
203.07	SELECT GRANULAR FILL	CY	110	
203.21	SELECT STRUCTURE FILL	CY	124	
206.01	STRUCTURE EXCAVATION	CY	72	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	270	
207.21	GEOTEXTILE SEPARATION	SY	2,815	
207.22	GEOTEXTILE DRAINAGE	SY	122	
209.110101	CHECK DAM (DITCH BOTTOM WIDTH 0-3 FT), STONE - TEMPORARY	EA	11	
209.110102	CHECK DAM (DITCH BOTTOM WIDTH 3-6 FT) STONE - TEMPORARY	EA	2	
209.13	SILT FENCE	LF	1,000	
209.1701	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE TEMPORARY	LF	16	
304.11	SUBBASE COURSE, TYPE 1 - MILLINGS	CY	140	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	1,324	
403.118902	HOT MIX ASPHALT - TYPE 1, BASE	TON	400	
403.138902	HOT MIX ASPHALT - TYPE 3, BINDER	TON	1,100	
403.198902	HOT MIX ASPHALT - TYPE 7, TOP COURSE	TON	375	
407.0102	DILUTE TACK COAT	GAL	540	
490.30	MISC, COLD MILLING OF BITUMINOUS CONCRETE	SY	4,200	
555.95000007	CORROSION INHIBITOR FOR STRUCTURAL CONCRETE	GAL	48	
555.970100CA	CONCRETE FOR STRUCTURES, CLASS HP (REINF. INCL.)	CY	12	
557.0509	SUPERSTRUCTURE SLAB w/ INTEGRAL WEARING SURFACE - BTM FRMWRK NOT REQ'D, TYPE 9 FRICTION	SY	425	
557.2009	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE, TYPE 9 FRICTION	SY	150	
557.950000CA	CORROSION INHIBITOR FOR SUPERSTRUCTURE SLABS AND STRUCTURAL APPROACH SLABS	GAL	515	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB	SY	500	
559.18960118	PROTECTIVE SEAL OF STRUCTURAL CONCRETE FOR NEW BRIDGE DECK	SF	4,890	
567.60	ARMORLESS BRIDGE JOINT SYSTEM	LF	49	
C568.1003	REMOVING AND STORING OF STEEL BRIDGE RAILING	LF	307	
568.50	STEEL BRIDGE RAILING (THREE RAIL)	LF	310	
568.70	TRANSITION BRIDGE RAIL TO BOX BEAM GUIDE RAIL	LF	128	
580.01	REMOVAL STRUCTURAL CONCRETE	CY	9	
580.04	REMOVAL OF CONCRETE APPROACH SLAB	SF	1,240	
C580.06	REMOVAL OF STRUCTURAL SLAB SUPPORTED BY PRESTRESSED CONCRETE BEAMS	SF	3,760	
603.171116	GALVANIZED STEEL END SECTION PIPE (2 2/3" X 1/2" CORRUGATIONS) 15" DIAMETER 16 GAUGE	EA	2	
603.6702	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE CLASS HE III, 19" RISE X 30" SPAN	LF	96	
603.67020008	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, END SECTION, CLASS HE III, 19" RISE X 30" SPAN	EA	2	
603.9812	SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM PIPE, 12" DIAMETER	LF	100	
C604.309903	RECTANGULAR DRAINAGE STRUCTURE 2-FT X 2-FT	LF	6	
605.1001	UNDERDRAIN, TYPE II	CY	23	
605.1501	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING (4" DIAMETER)	LF	65	
606.10	BOX BEAM GUIDE RAILING	LF	186	
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	18	
606.120101	BOX BEAM END PIECE	EA	1	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EA	3	
606.63	REMOVING AND STORING OF BOX BEAM GUIDE RAILING	LF	300	
606.6920	REMOVING AND STORING OF BOX BEAM GUIDE RAILING END ASSEMBLY	EA	4	
610.1602	TURF ESTABLISHMENT - LAWN	SY	225	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADES	LF	24	
619.27	MAILBOXES	EA	1	
623.12	CRUSHED STONE (MEASURED IN PLACE)	CY	110	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	72	
C634.9901	TESTING SERVICES	FPLS	1,000	
637.03	CONCRETE CYLINDER CURING BOX	EA	1	
637.11	ENGINEERS OFFICE - TYPE 1	MO	4	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
699.04	MOBILIZATION (4 %)	LS	1	

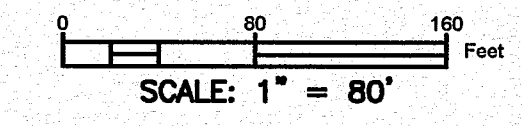
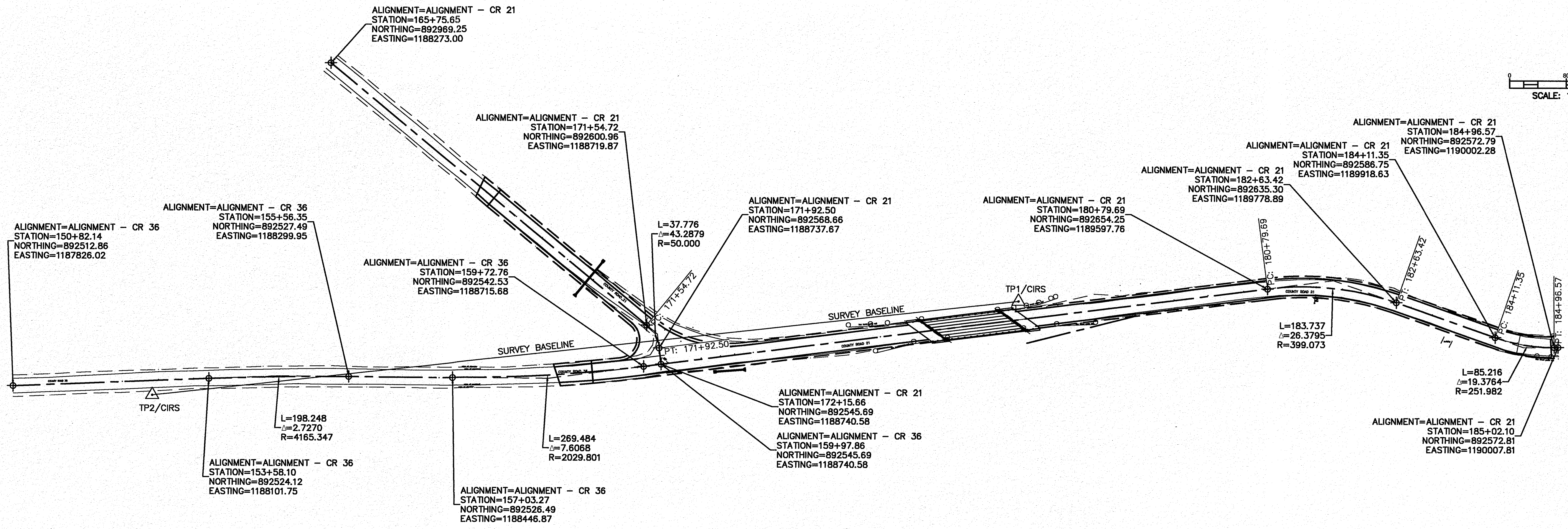
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DEPARTMENT OF PUBLIC WORKS
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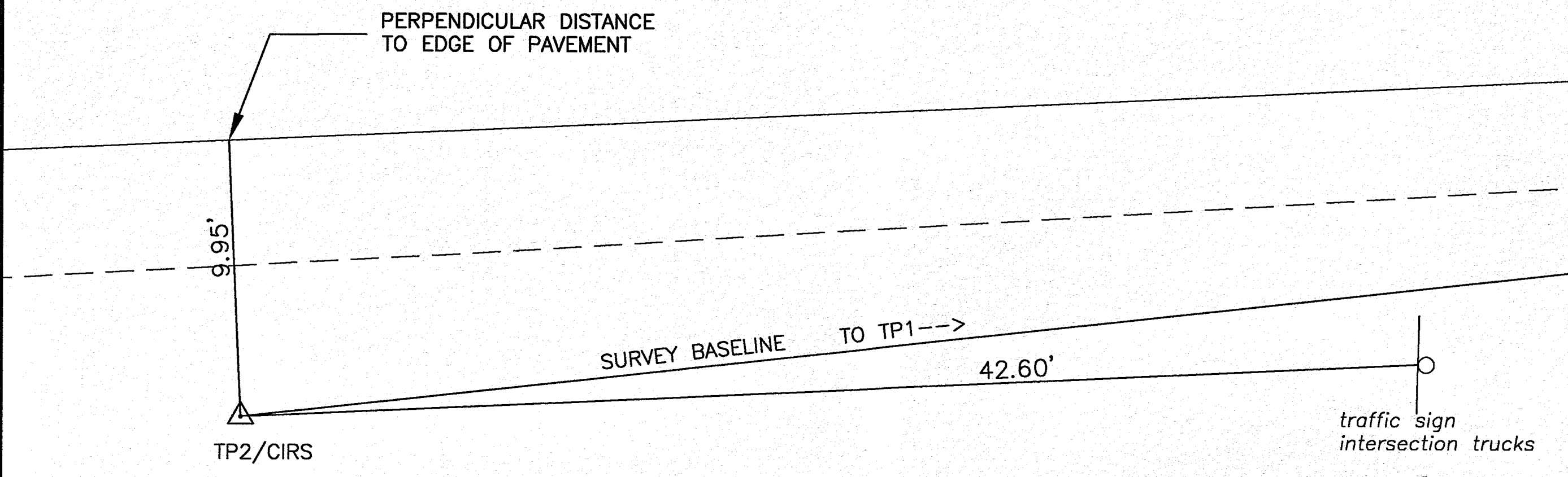
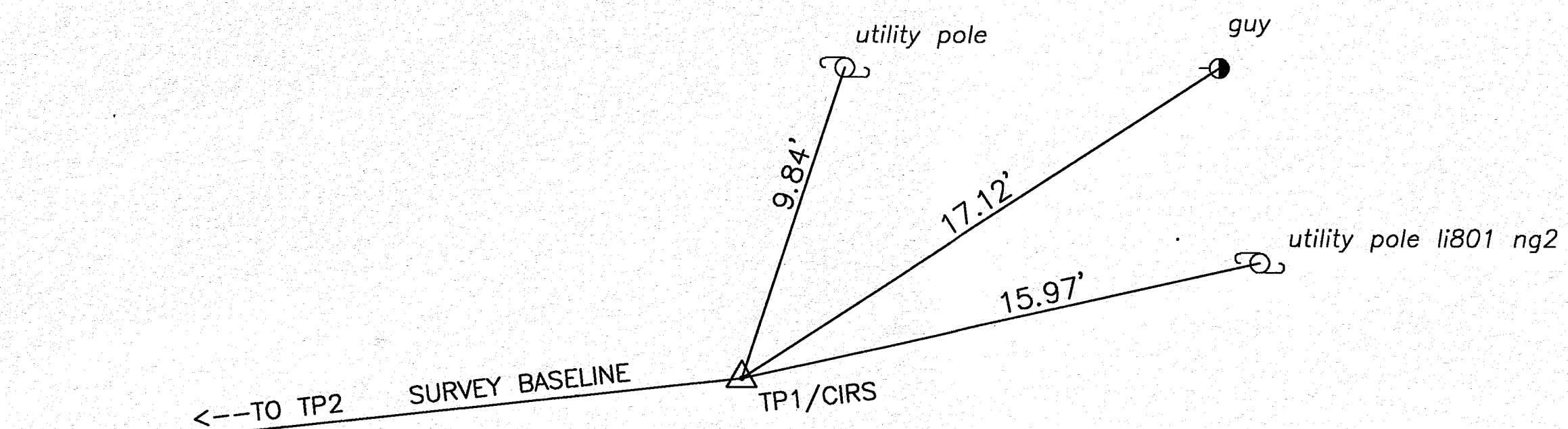
GENERAL NOTES & QUANTITIES
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21

NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.



DATE: JUNE 21, 2019		DATE	CK.
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CATTARAUGUS COUNTY
DEPARTMENT OF PUBLIC WORKS
8810 NYS ROUTE 248
LITTLE VALLEY, NEW YORK 14765
716-888-8121



SURVEY CONTROL SHEET

TOWN OF FREEDOM

COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4

INTERSECTION OF COUNTY ROAD 36 AND 21

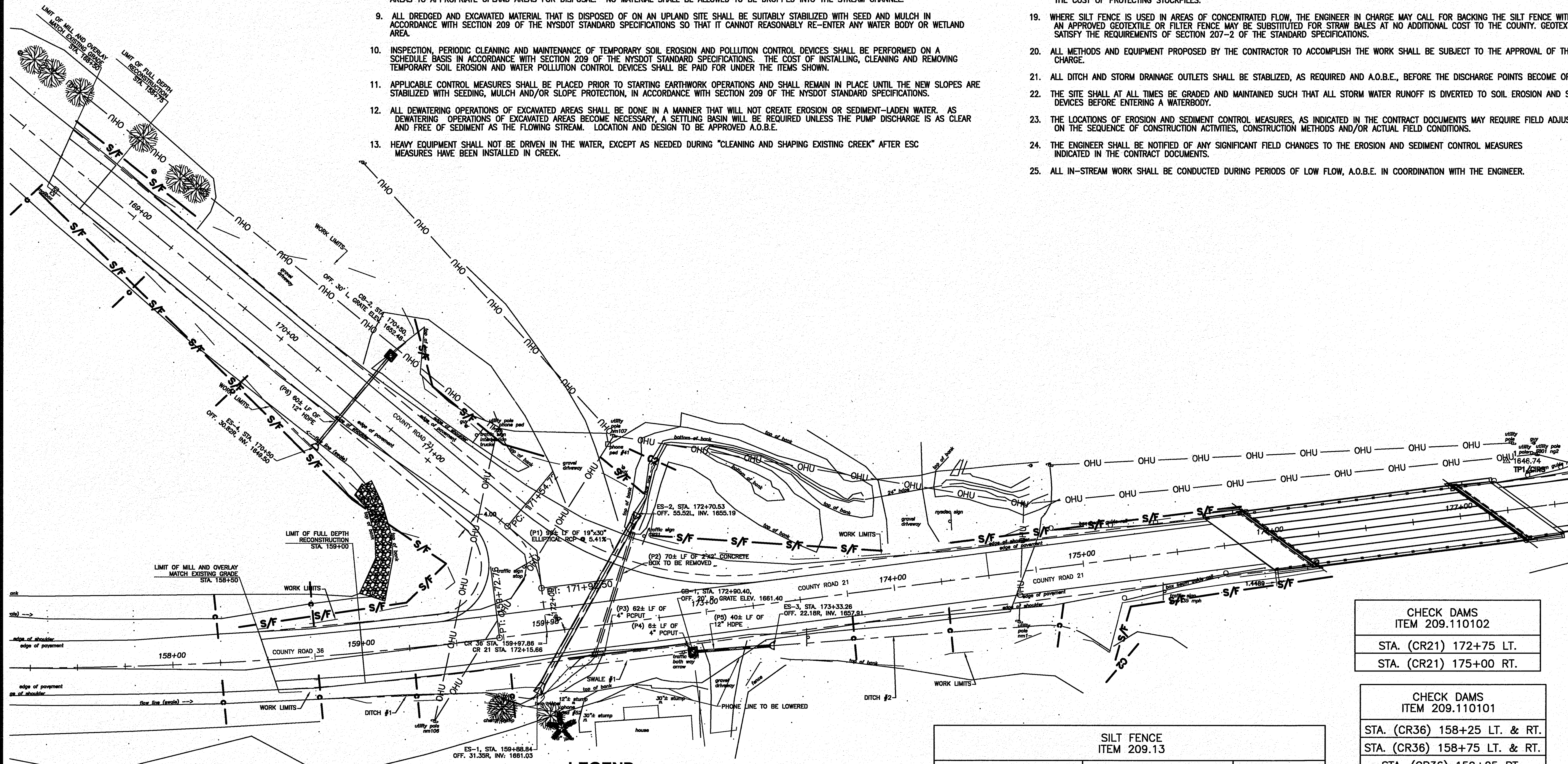
TP1/CAPPED IRON ROD (NOT TO SCALE)
CONTROL POINT 1 N: 892635.49' E: 1189245.30'
ELEVATION: 1646.74 FT

TP2/CAPPED IRON ROD (NOT TO SCALE)
CONTROL POINT 2 N: 892500.73' E: 1188021.94'
ELEVATION: 1709.94 FT

NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STANDARDS FOR THE UNITED STATES ARMY CORPS OF ENGINEERS, SECTION 404 NATIONWIDE PERMITS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STANDARDS FOR THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, SECTION 401 WATER QUALITY CERTIFICATION.
3. THE ELEMENTS ON THESE PAGES KNOWN AS "EROSION AND SEDIMENT CONTROL" (ESC) SHALL BE USED DURING CONSTRUCTION IN ANY AREA WHERE FINE MATERIALS MAY ENTER THE WATERS OF THE STATE OF NEW YORK.
4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER IN CHARGE HIS WRITTEN SCHEDULE AND PROPOSED MEASURES FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL WORK AND SCHEDULE OF OPERATIONS AS REQUIRED BY SECTION 209 OF THE NYS DOT STANDARD SPECIFICATIONS.
5. ALL STREAM CHANNEL WORK SHALL BE LIMITED TO WITHIN THE DESIGNATED RIGHT OF WAY, EASEMENT, TEMPORARY OCCUPANCY OR RELEASE LIMITS.
6. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY STREAM OR WATERWAY BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES.
7. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WATERS, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
8. ANY DEBRIS OR EXCESS MATERIALS FROM CONSTRUCTION SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL WATER AREAS TO APPROPRIATE UPLAND AREAS FOR DISPOSAL. NO MATERIAL SHALL BE ALLOWED TO BE DROPPED INTO THE STREAM CHANNEL.
9. ALL DREDGED AND EXCAVATED MATERIAL THAT IS DISPOSED OF ON AN UPLAND SITE SHALL BE SUITABLY STABILIZED WITH SEED AND MULCH IN ACCORDANCE WITH SECTION 209 OF THE NYS DOT STANDARD SPECIFICATIONS SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY OR WETLAND AREA.
10. INSPECTION, PERIODIC CLEANING AND MAINTENANCE OF TEMPORARY SOIL EROSION AND POLLUTION CONTROL DEVICES SHALL BE PERFORMED ON A SCHEDULE BASIS IN ACCORDANCE WITH SECTION 209 OF THE NYS DOT STANDARD SPECIFICATIONS. THE COST OF INSTALLING, CLEANING AND REMOVING TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE PAID FOR UNDER THE ITEMS SHOWN.
11. APPLICABLE CONTROL MEASURES SHALL BE PLACED PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING, MULCH AND/OR SLOPE PROTECTION, IN ACCORDANCE WITH SECTION 209 OF THE NYS DOT STANDARD SPECIFICATIONS.
12. ALL DEWATERING OPERATIONS OF EXCAVATED AREAS SHALL BE DONE IN A MANNER THAT WILL NOT CREATE EROSION OR SEDIMENT-LADEN WATER. AS DEWATERING OPERATIONS OF EXCAVATED AREAS BECOME NECESSARY, A SETTLING BASIN WILL BE REQUIRED UNLESS THE PUMP DISCHARGE IS AS CLEAR AND FREE OF SEDIMENT AS THE FLOWING STREAM. LOCATION AND DESIGN TO BE APPROVED A.O.B.E.
13. HEAVY EQUIPMENT SHALL NOT BE DRIVEN IN THE WATER, EXCEPT AS NEEDED DURING "CLEANING AND SHAPING EXISTING CREEK" AFTER ESC MEASURES HAVE BEEN INSTALLED IN CREEK.
14. CONTROLS SHALL BE ESTABLISHED TO PREVENT THE TRACKING, SPILLING, AND DROPPING OF SEDIMENTS OUTSIDE OF THE WORK AREAS BY CONSTRUCTION VEHICLES. IF WASHING IS PERFORMED, THE WASHING AREA SHALL BE LOCATED IN AN AREA WHICH WILL DRAIN INTO AN APPROVED SEDIMENT CONTROL MEASURE(S). NO SEPARATE PAYMENT WILL BE MADE FOR MAINTENANCE, ESTABLISHMENT, AND MATERIALS FOR WASHING AREAS; COST TO BE INCLUDED IN THE UNIT BID PRICES OF VARIOUS EROSION AND SEDIMENT CONTROL ITEMS STATED IN THE CONTRACT.
15. THE CONTRACTOR SHALL NOT USE THE STREAM BED OR BANKS AS A STAGING AREA FOR EQUIPMENT OR MATERIALS. AFTER EACH WORK DAY, ALL MECHANIZED EQUIPMENT SHALL BE REMOVED FROM THE BED AND BANKS OF THE CREEK AND STORED IN AN APPROVED UPLAND SITE.
16. ALL AREAS OF SOIL DISTURBANCES RESULTING FROM THIS PROJECT SHALL BE STABILIZED BY SEEDING, MULCH AND/OR ROLLED EROSION CONTROL PRODUCTS IN ACCORDANCE WITH SECTION 209-3.01 OF THE NYS DOT STANDARD SPECIFICATIONS WITHIN ONE WEEK AFTER FINAL GRADING. IF CONSTRUCTION ACTIVITIES ARE DISCONTINUED IN AREAS OF SOIL DISTURBANCE BEFORE FINAL GRADING IS COMPLETE, TEMPORARY GRADING SHALL BE STABILIZED BY SEEDING/MULCH (ITEM 209.1003) WITHIN 7 DAYS OF EXPOSURE. MULCH SHALL BE MAINTAINED UNTIL SUITABLE VEGETATIVE COVER IS ESTABLISHED. IN NO CASE SHALL MORE THAN ONE PAYMENT BE MADE FOR THE APPLICATION OF SEED/MULCH (ITEM 209.1003) IN ANY GIVEN AREA REGARDLESS OF THE NUMBER OF APPLICATIONS REQUIRED TO COMPLY WITH THESE NOTES AND SPECIFICATIONS.
17. OTHER EROSION CONTROL MEASURES MAY BE REQUIRED A.O.B.E. IN ADDITION TO CONFIGURATION SHOWN. PAYMENT FOR ADDITIONAL WORK SHALL BE MADE UNDER THE APPROPRIATE ITEMS IN THE CONTRACT.
18. RING ANY TEMPORARY STOCKPILES OF TOPSOIL OR FILL WITH SILT FENCES AS SHOWN IN THE SILT FENCE DETAIL IN THE NYS DOT STANDARD SHEETS AND STANDARD SPECIFICATIONS TO CONTAIN ANY EROSION OF THE PILE. PILES EXPOSED FOR LONGER THAN ONE WEEK SHALL BE STABILIZED BY SEEDING, MULCH AND/OR SLOPE PROTECTION IN ACCORDANCE WITH SECTION 209 OF THE NYS DOT STANDARD SPECIFICATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THE COST OF PROTECTING STOCKPILES.
19. WHERE SILT FENCE IS USED IN AREAS OF CONCENTRATED FLOW, THE ENGINEER IN CHARGE MAY CALL FOR BACKING THE SILT FENCE WITH STRAW BALES. AN APPROVED GEOTEXTILE OR FILTER FENCE MAY BE SUBSTITUTED FOR STRAW BALES AT NO ADDITIONAL COST TO THE COUNTY. GEOTEXTILE SHALL SATISFY THE REQUIREMENTS OF SECTION 207-2 OF THE STANDARD SPECIFICATIONS.
20. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER IN CHARGE.
21. ALL DITCH AND STORM DRAINAGE OUTLETS SHALL BE STABILIZED, AS REQUIRED AND A.O.B.E., BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
22. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL DEVICES BEFORE ENTERING A WATERBODY.
23. THE LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES, AS INDICATED IN THE CONTRACT DOCUMENTS MAY REQUIRE FIELD ADJUSTMENTS DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS AND/OR ACTUAL FIELD CONDITIONS.
24. THE ENGINEER SHALL BE NOTIFIED OF ANY SIGNIFICANT FIELD CHANGES TO THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED IN THE CONTRACT DOCUMENTS.
25. ALL IN-STREAM WORK SHALL BE CONDUCTED DURING PERIODS OF LOW FLOW, A.O.B.E. IN COORDINATION WITH THE ENGINEER.



DRAINAGE STRUCTURE INLET PROTECTION ITEM 209.1701	
STA. (CR21) 170+50 LT.	
STA. (CR21) 172+90 RT.	

LEGEND

- CHECK DAM, STONE (TEMPORARY) - ITEM 209.110101
- CHECK DAM, STONE (TEMPORARY) - ITEM 209.110102
- SILT FENCE (TEMPORARY) - ITEM 209.13
- DRAINAGE STRUCTURE INLET PROTECTION - ITEM 209.1701

SILT FENCE ITEM 209.13		
FROM	TO	LENGTH (ft)
STA. (CR21) 168+50 RT.	STA. (CR36) 158+35 RT.	400
STA. (CR21) 168+45 LT.	STA. (CR21) 169+25 LT.	80
STA. (CR21) 170+35 LT.	STA. (CR21) 171+50 LT.	115
STA. (CR21) 171+75 LT.	STA. (CR21) 172+00 LT.	25
STA. (CR21) 172+75 LT.	STA. (CR21) 174+00 LT.	125
STA. (CR21) 174+30 LT.	STA. (CR21) 175+90 LT.	160
STA. (CR21) 175+00 RT.	STA. (CR21) 176+25 RT.	130

CHECK DAMS ITEM 209.110102	
STA. (CR21) 172+75 LT.	
STA. (CR21) 175+00 RT.	

CHECK DAMS ITEM 209.110101	
STA. (CR36) 158+25 LT. & RT.	
STA. (CR36) 158+75 LT. & RT.	
STA. (CR36) 159+25 RT.	
STA. (CR21) 168+50 RT.	
STA. (CR21) 169+25 RT.	
STA. (CR21) 170+00 RT.	
STA. (CR21) 172+25 RT.	
STA. (CR21) 173+75 RT.	
STA. (CR21) 174+25 RT.	
STA. (CR21) 174+85 RT.	

NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

CATARAUGUS COUNTY - 2019

DATE: JUNE 21, 2019

SCALE: 1"=30'-0"

REVISIONS

DATE

CHK.

DGN. MCB

TR.

DWG.

SURVEY #

BK.

LOT

PC.

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EROSION CONTROL PLAN

TOWN OF FREEDOM

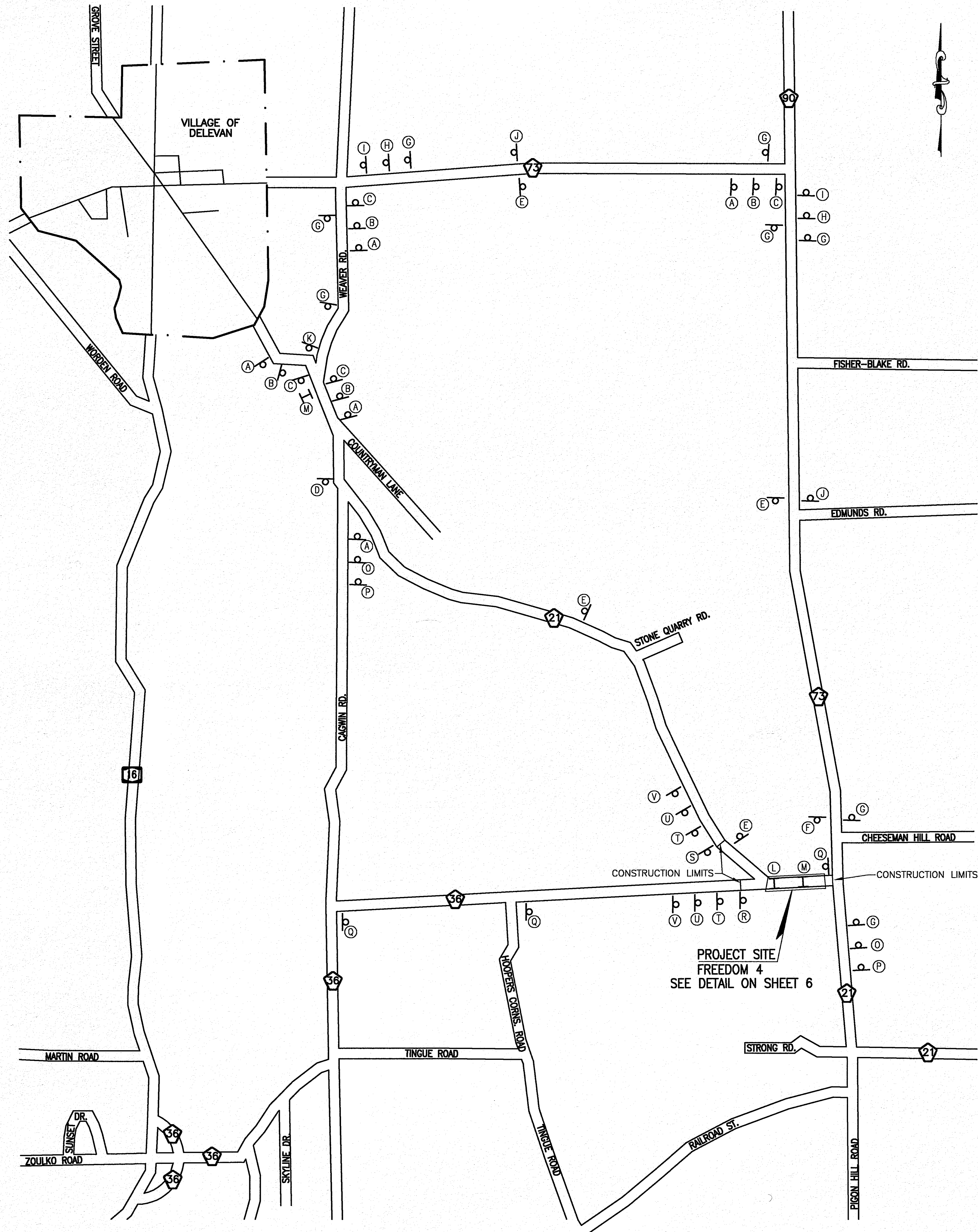
**COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4**

INTERSECTION OF COUNTY ROAD 36 AND 21

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SHEET 4 OF 25

PROJECT NO. H.5198.25093



NOTE: THE COUNTY SHALL SIGN AND MAINTAIN THE DETOUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRIDGE CLOSURE PLAN SHOWN ON SHEET 6.

NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

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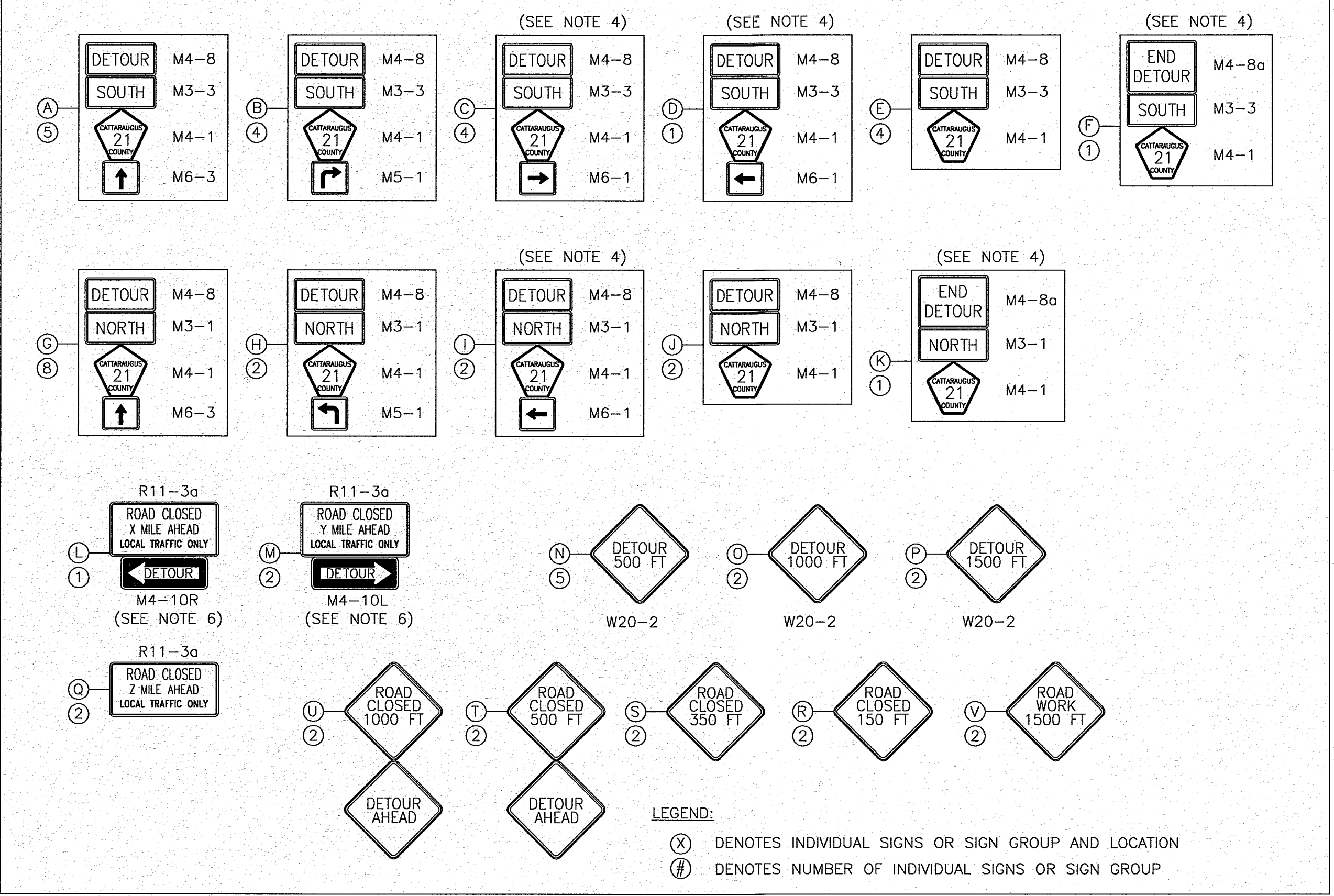
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DETOUR PLAN
 TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
 INTERSECTION OF COUNTY ROAD 36 AND 21

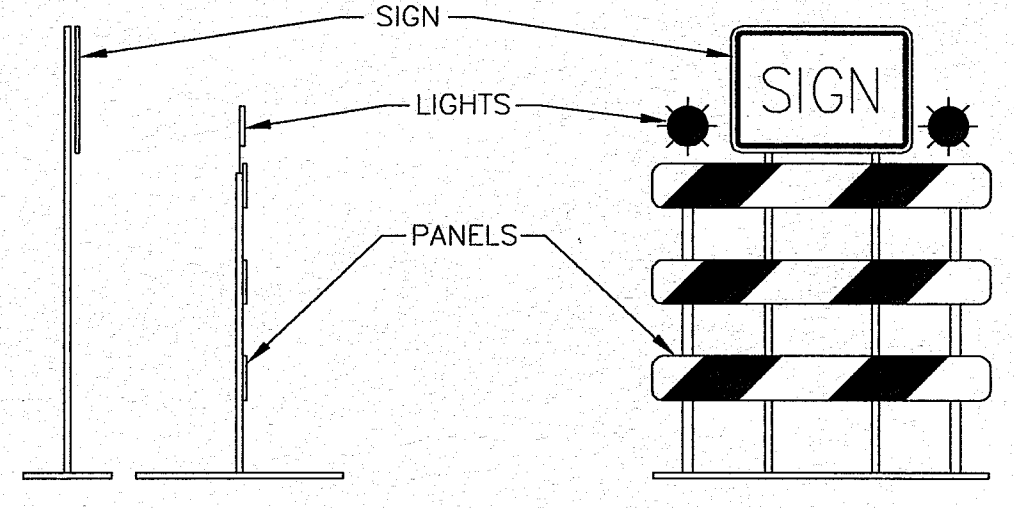
SHEET 5 OF 25
 PROJECT NO. H.5198.25093

DETOUR SIGN SCHEDULE



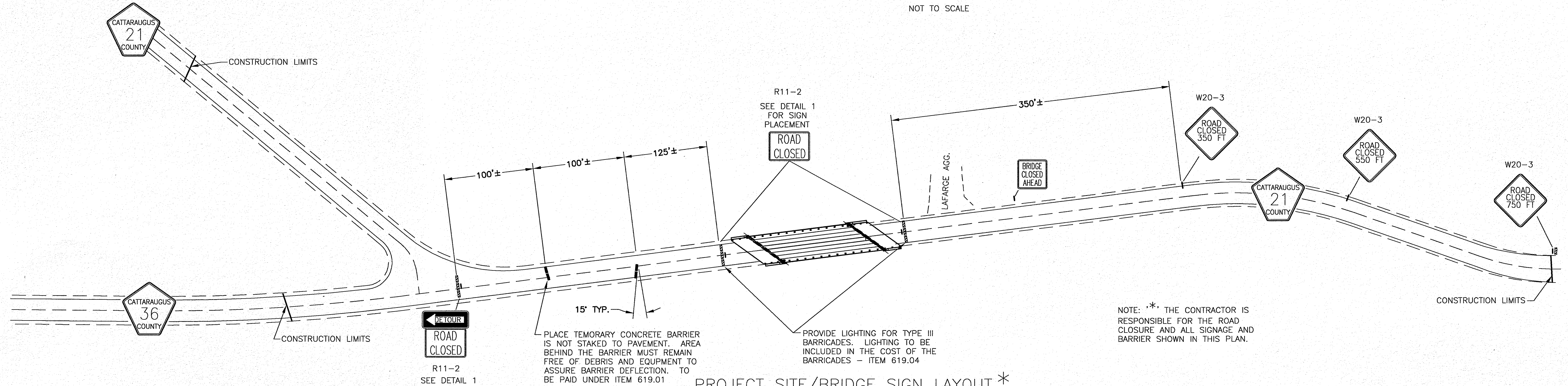
NOTES:

1. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619—MAINTENANCE AND PROTECTION OF TRAFFIC OF THE SPECIFICATIONS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION AND ALL CURRENT REVISIONS) AND THE NEW YORK STATE SUPPLEMENT (2011 EDITION), AND ANY PROVISIONS CONTAINED IN THE PLANS AND/OR PROPOSAL OF CONTRACT.
2. THE SIGN LOCATIONS ARE APPROXIMATE ONLY, THE EXACT LOCATIONS SHALL BE DETERMINED BY THE E.I.C. THE LATERAL AND LONGITUDINAL PLACEMENT OF SIGNS SHALL BE IN CONFORMANCE WITH THE NATIONAL M.U.T.C.D. AND THE N.Y.S. SUPPLEMENT.
3. THE COST OF FURNISHING AND INSTALLING ALL SIGNS RELATING TO THE ROAD CLOSURE DETOUR SHALL BE PAID UNDER ITEM 619.01 — BASIC WORK ZONE TRAFFIC CONTROL.
4. SIGN GROUPINGS (C), (D), (F), (I), AND (K) SHALL ALWAYS BE POSTED A MAXIMUM OF 50' FROM AN INTERSECTION.
5. THE CONTRACTOR WILL PLACE ALL SIGNS FOR THE DETOUR PRIOR TO ROAD CLOSURE.
6. IF THE ROAD IS OPEN FOR SOME DISTANCE BEYOND THE INTERSECTION AND/OR THERE ARE SIGNIFICANT ORIGIN/DESTINATION POINTS BEYOND THE INTERSECTION, THE R11-3A ROAD CLOSED SIGNS AND THE M4-10(L/R) "DETOUR" SIGN MOUNTED ON TYPE III BARRICADES ARE TO BE LOCATED AT THE EDGE OF THE TRAVELED WAY.
7. ANY EXISTING SIGNS WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET A.O.B.E. BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE TO SIGNS CAUSED BY THE METHODS TO TEMPORARILY REMOVE, REPLACE OR COVER SIGN PANELS OR SIGN TEXT, AT NO ADDITIONAL COST TO THE COUNTY. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THE CONTRACT DOCUMENTS.
8. THE DETOUR PLAN SHOWN IS CONSIDERED TO BE THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR CONTROL DEVICES MAY BE REQUIRED, A.O.B.E.
9. THE CONTRACTOR WILL MAINTAIN ALL SIGNS AND/OR CONTROL DEVICES FOR THE DURATION OF THE DETOUR. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ROADWAY MAINTENANCE.
10. WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS, THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
11. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO THEIR DRIVEWAYS AT ALL TIMES. ALL WORK TO BE APPROVED BY THE ENGINEER.
12. WORK BEYOND BRIDGE WORK, ie. MILLING, PAVING AND GRADING OF ROADWAY SHALL BE CONSTRUCTED UNDER TRAFFIC USING FLAGGERS.
13. ACCESS TO LAFARGE DRIVEWAY SHALL BE MAINTAINED DURING BRIDGE CLOSURE.



NOTES:

1. THE SIGN PANELS SHALL BE MOUNTED ON SEPARATE SIGN SUPPORTS, NOT ON THE TYPE III BARRICADES.
2. REFER TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SECTION 6F FOR THE DIRECTION OF STRIPING ON THE BARRICADES.
3. SIGN PANELS SHALL BE INCLUDED IN ITEM 619.01. TYPE III BARRICADES TO BE PAID UNDER ITEM 619.04 AND THE CONCRETE BARRICADES SHALL BE PAID UNDER ITEM 619.1701.
4. ANY LIGHTING USED ON TYPE III BARRICADES SHALL BE INCLUDED IN THE COST OF THE BARRICADES, ITEM 619.04



PROJECT SITE/BRIDGE SIGN LAYOUT *

SIGNS ARE NOT REFLECTED IN SCHEDULE ABOVE. TO BE PAID UNDER - ITEM 619.01. SEE NOTE 3.

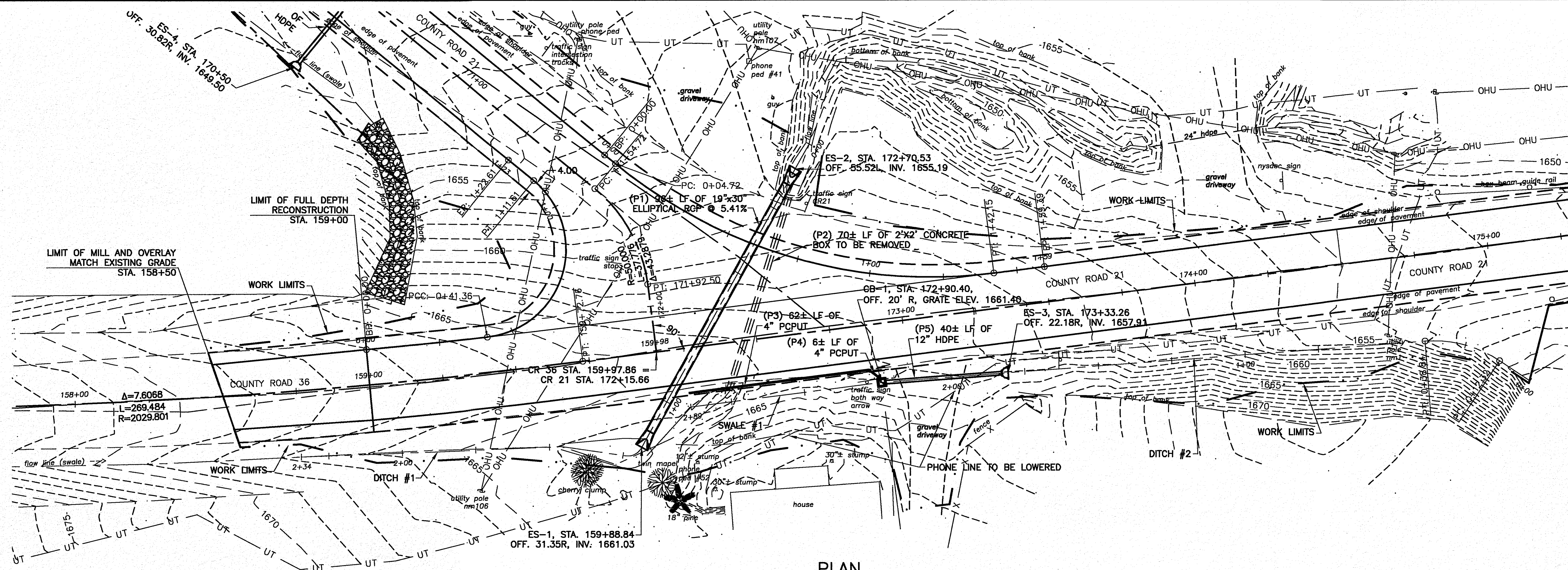
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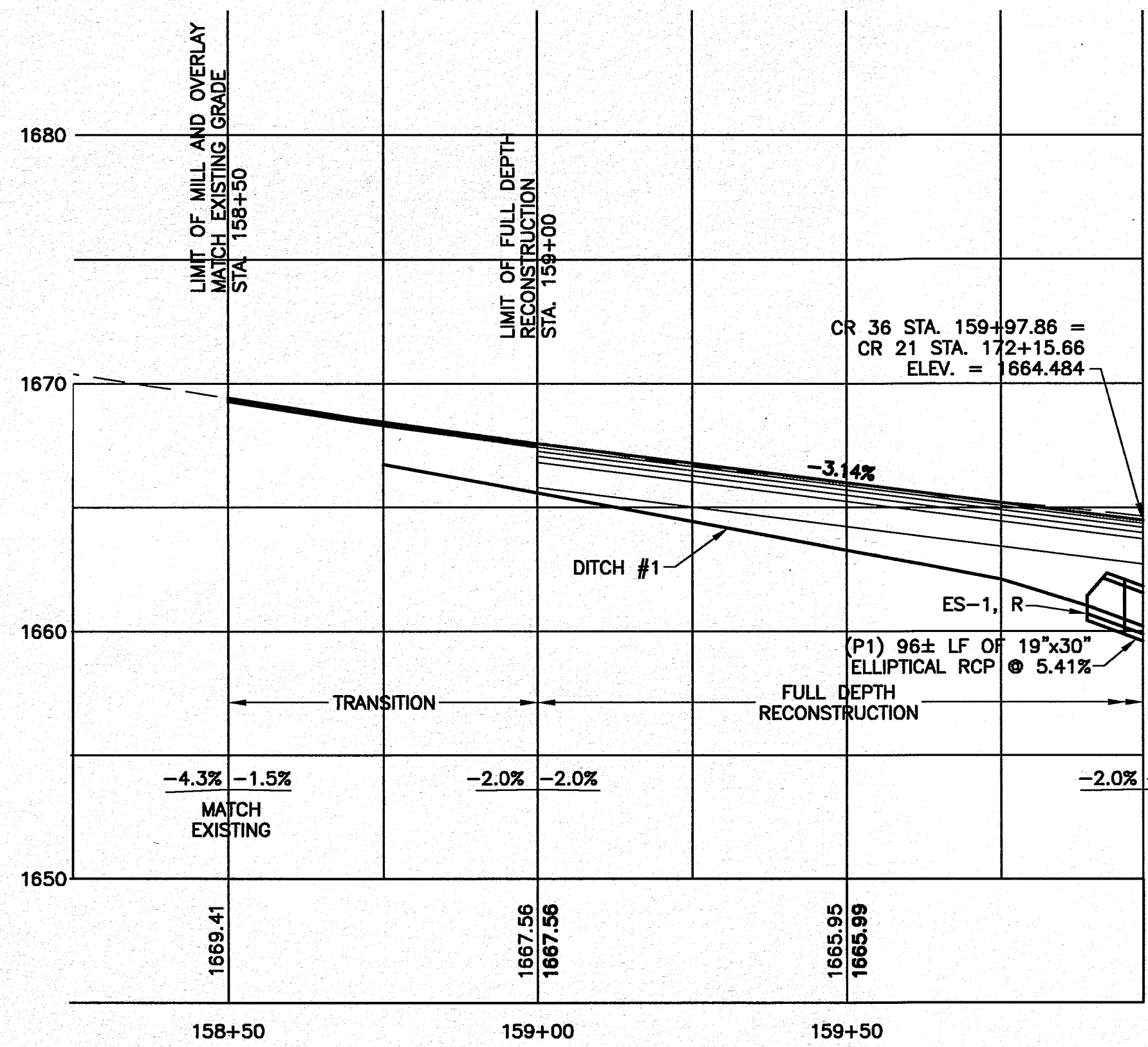
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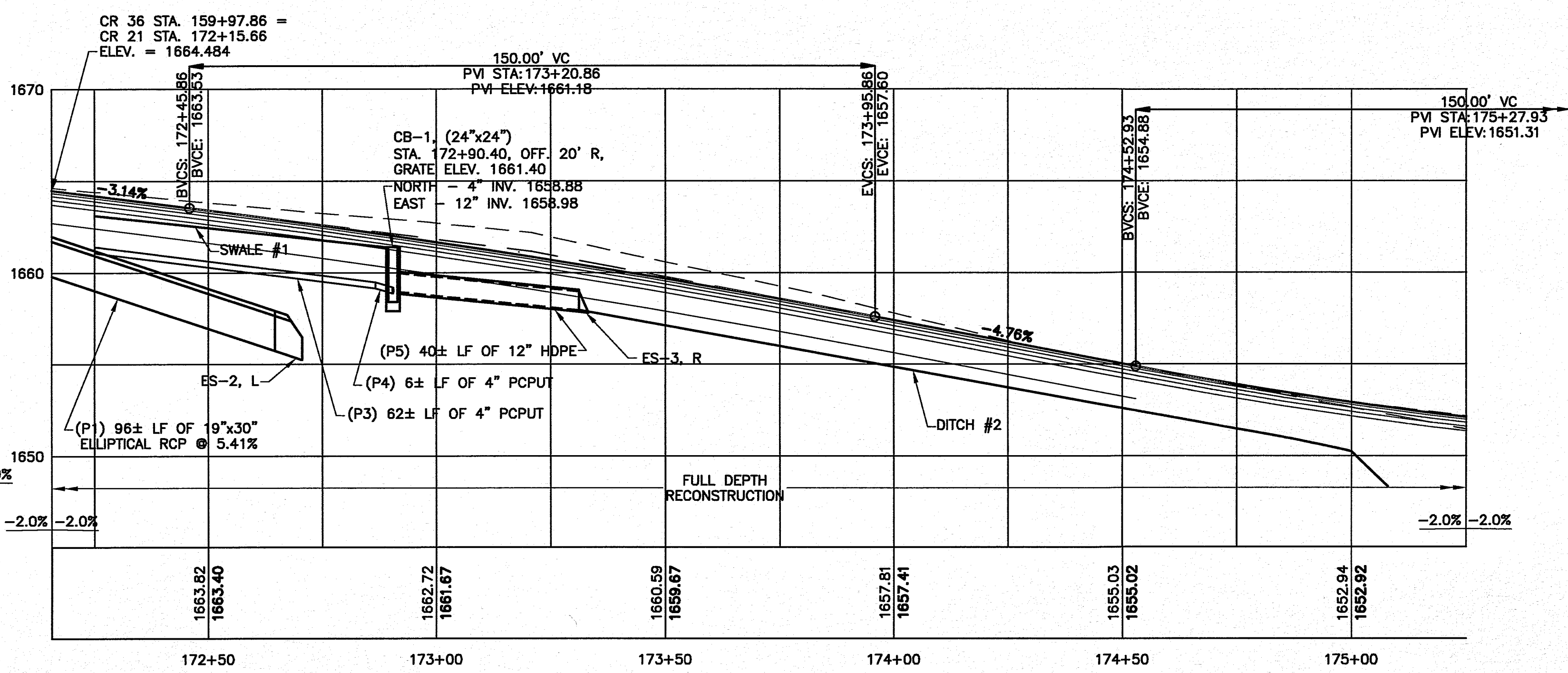
BRIDGE CLOSURE PLAN
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21



PLAN
SCALE: 1"=20'-0"



COUNTY ROAD 36 PROFILE
SCALE: 1"=20'-0" H., 1"=5'-0" V.



COUNTY ROAD 21 PROFILE
SCALE: 1"=20'-0" H., 1"=5'-0" V.

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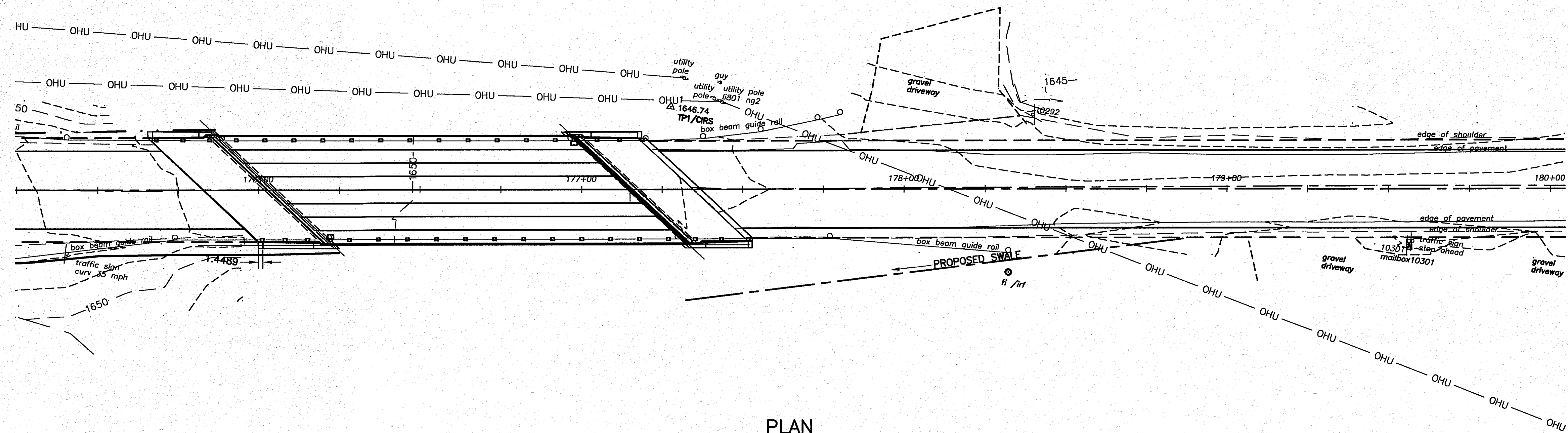
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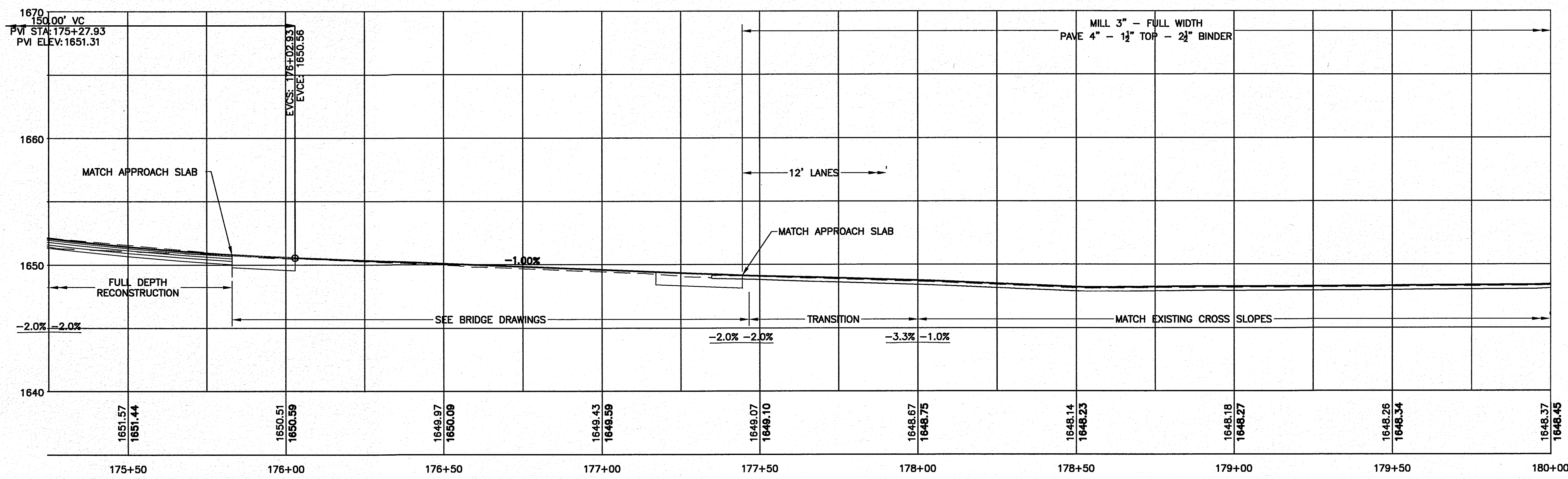
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PLAN AND PROFILE 1 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21



PLAN
SCALE: 1"=20'-0"



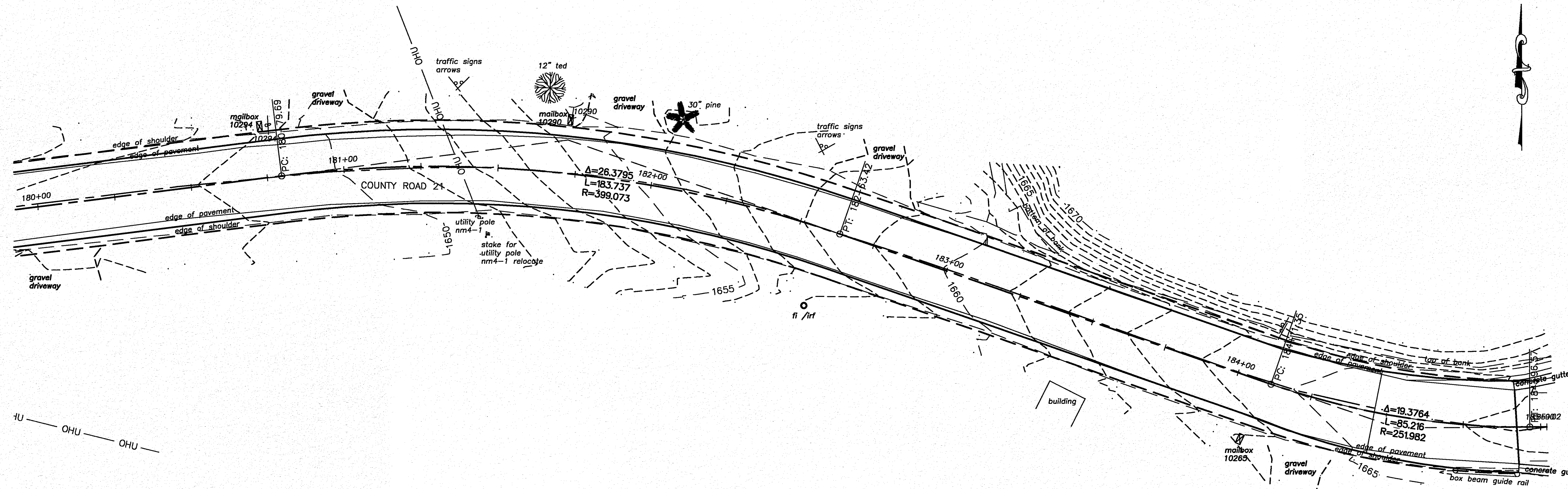
COUNTY ROAD 21 PROFILE
SCALE: 1"=20'-0" H., 1"=5'-0" V.

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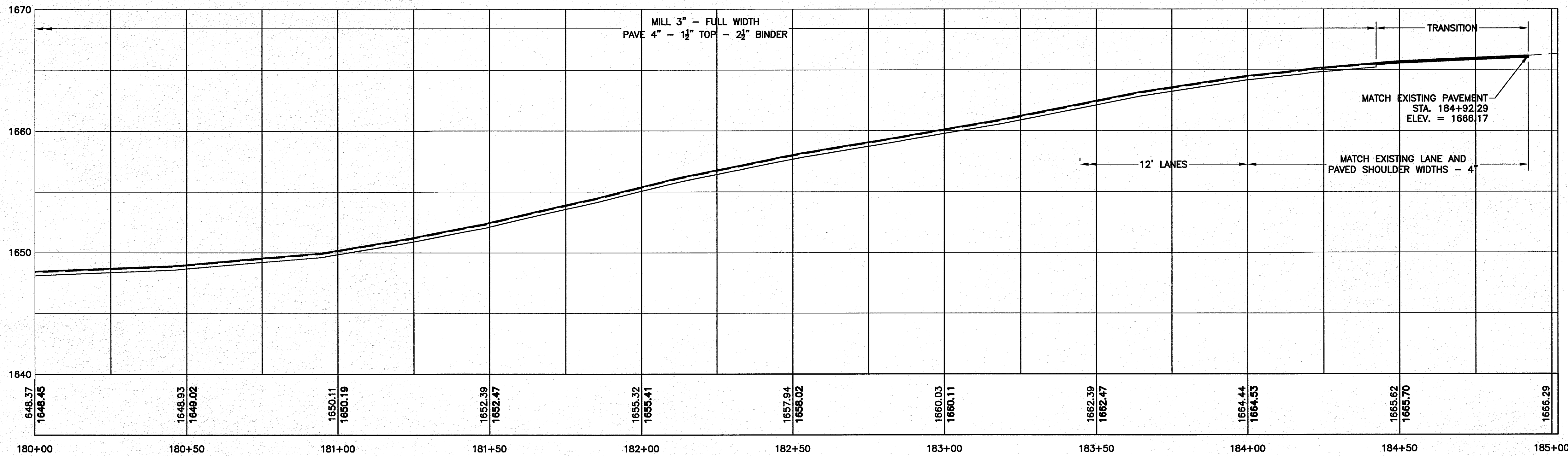
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PLAN AND PROFILE 2 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21



PLAN
SCALE: 1"=20'-0"



COUNTY ROAD 21 PROFILE
SCALE: 1"=20'-0" H., 1"=5'-0" V.

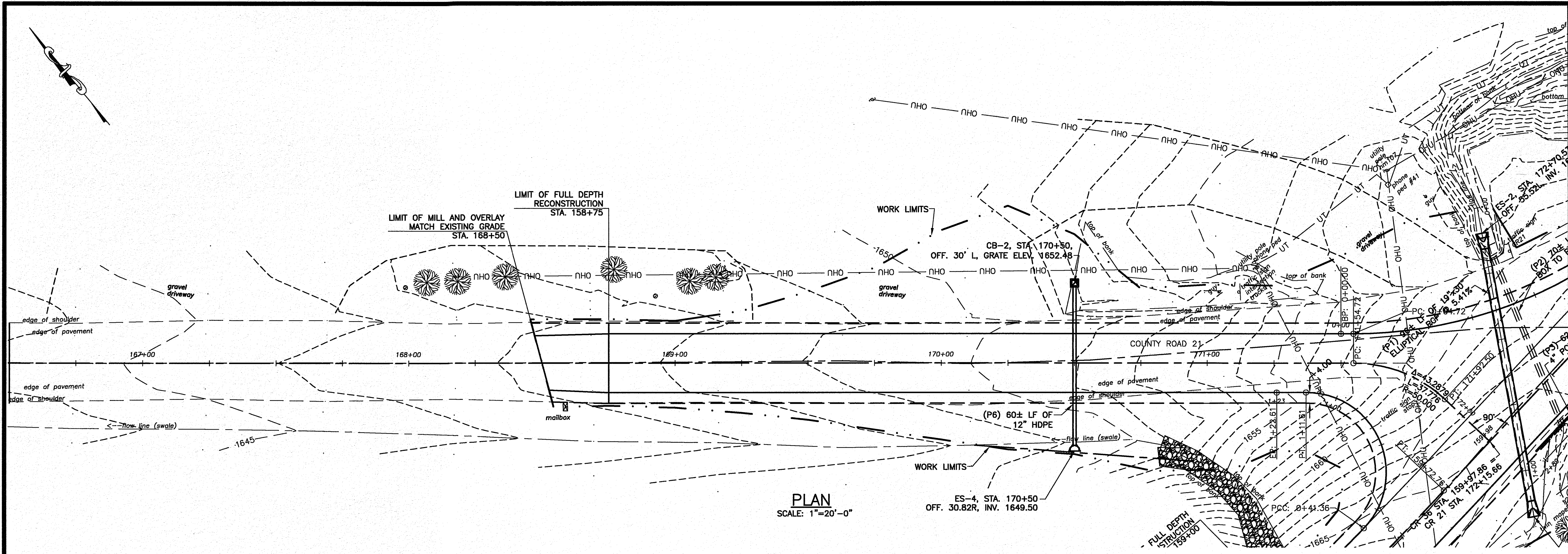
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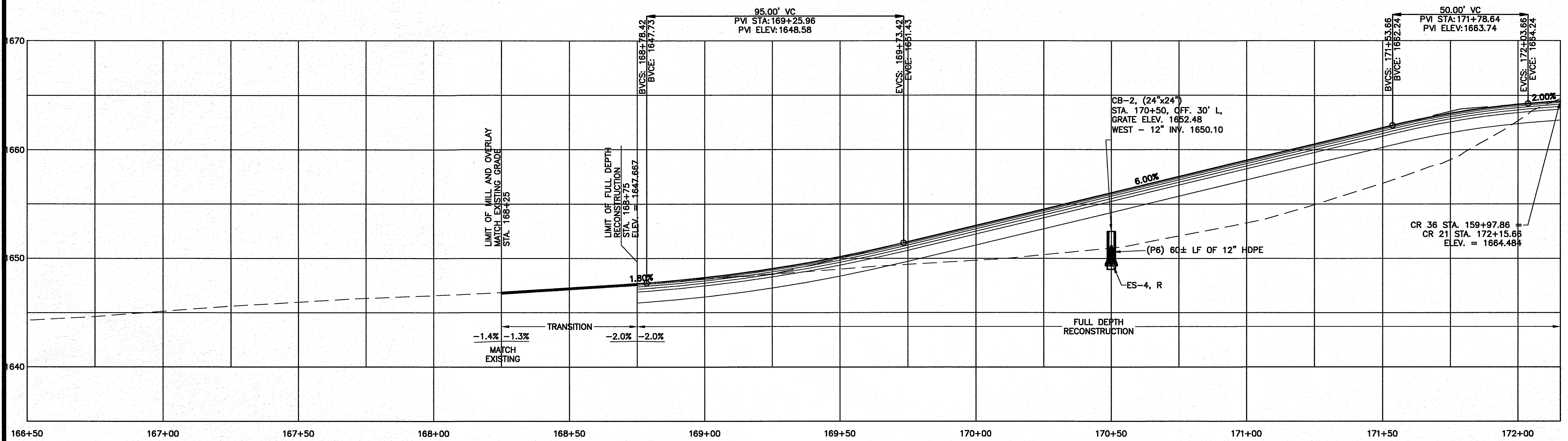
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PLAN AND PROFILE 3 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21



PLAN
SCALE: 1"=20'-0"



COUNTY ROAD 21 PROFILE
SCALE: 1"=20'-0" H., 1"=5'-0" V.

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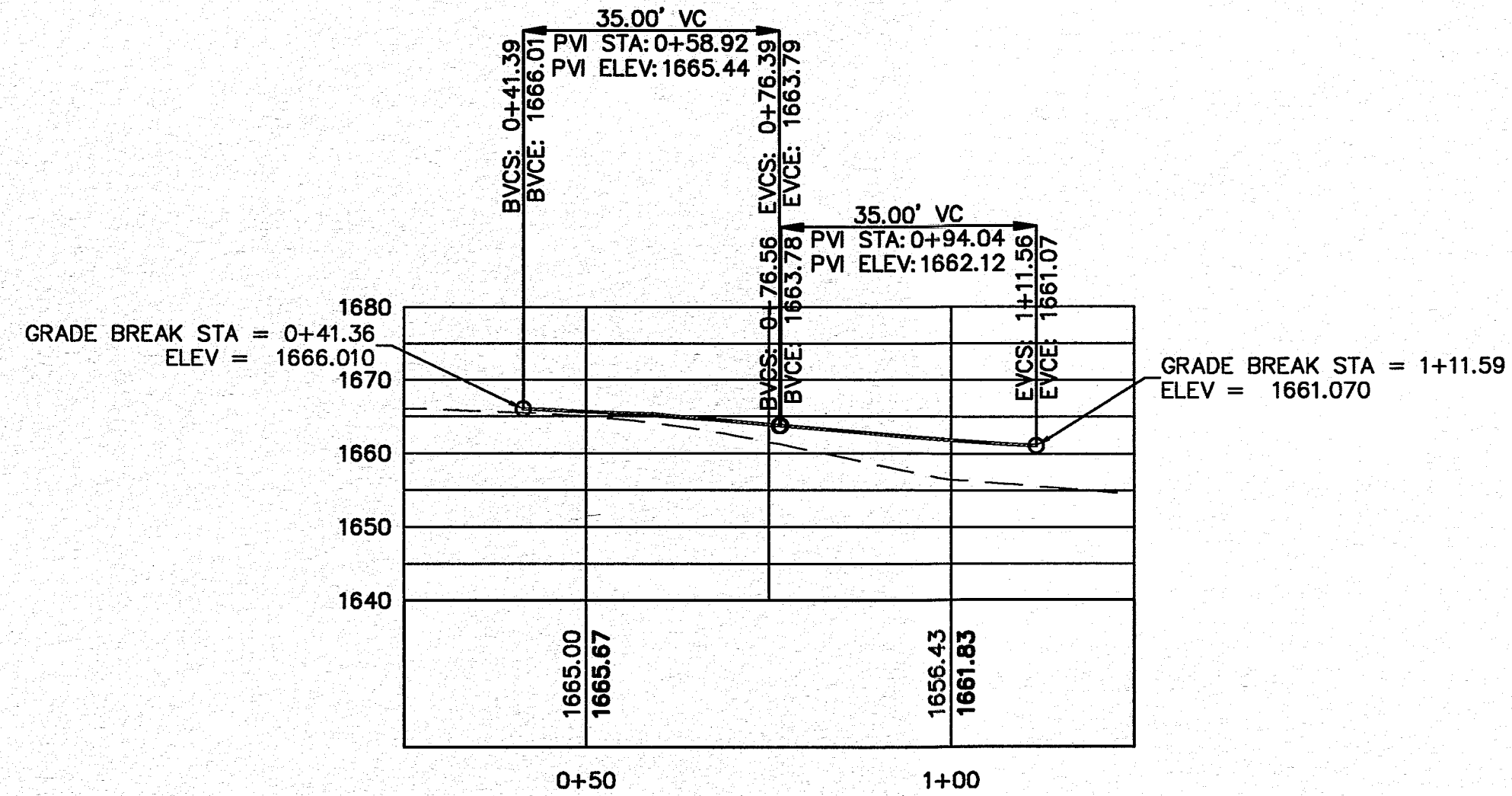
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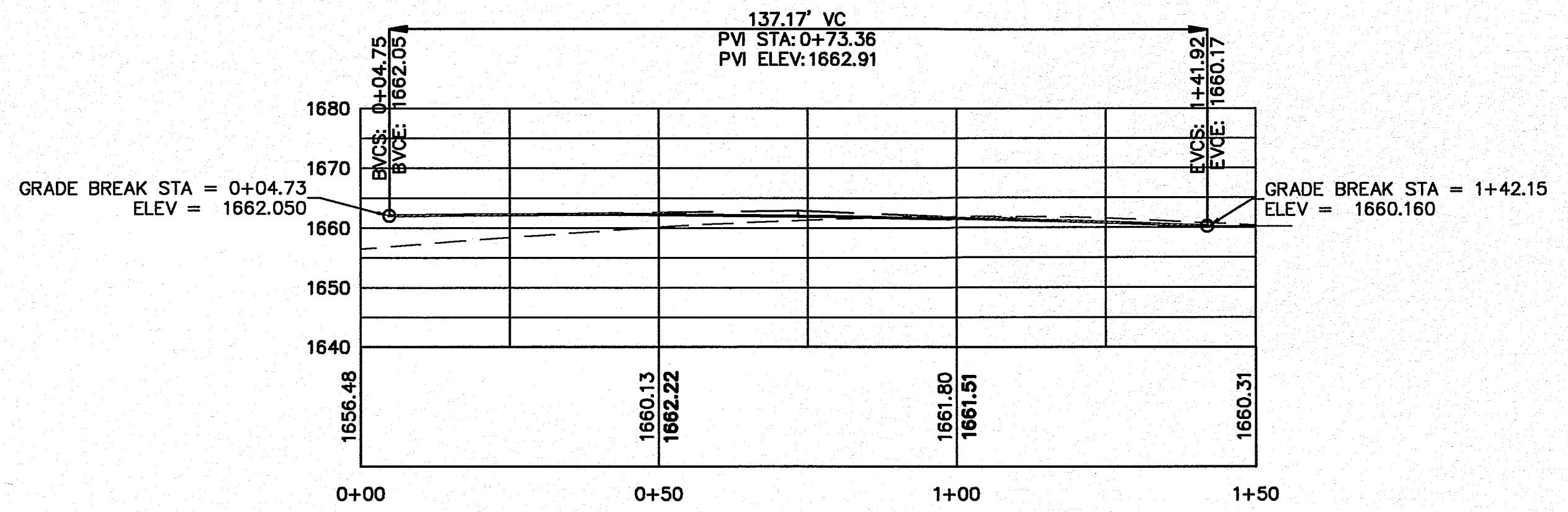
PLAN AND PROFILE 4 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21

SHEET 10 OF 25
PROJECT NO. H.5198.25093

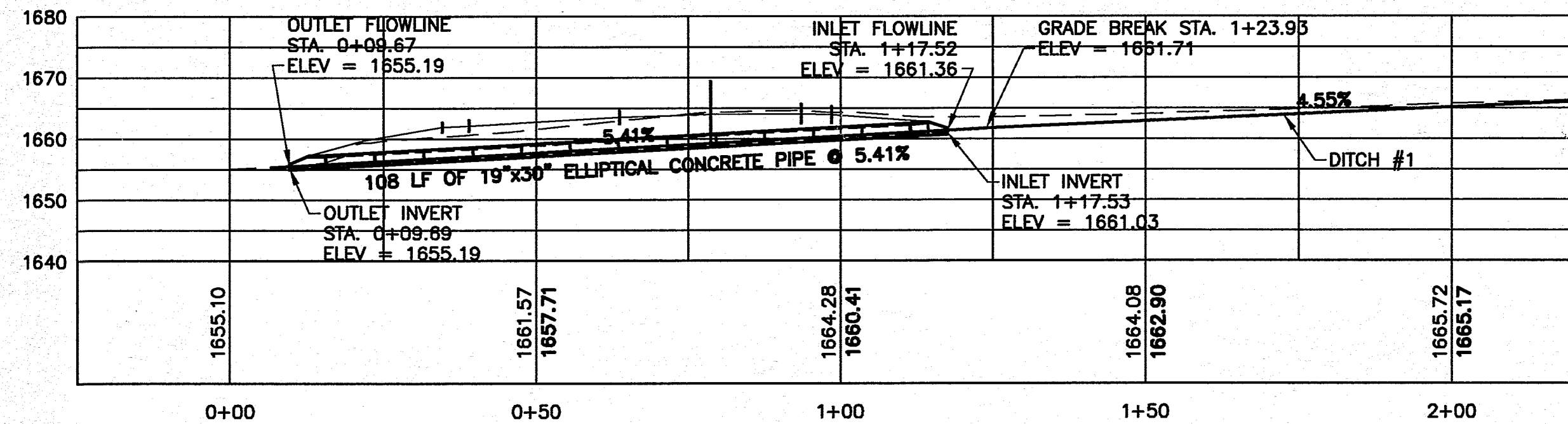
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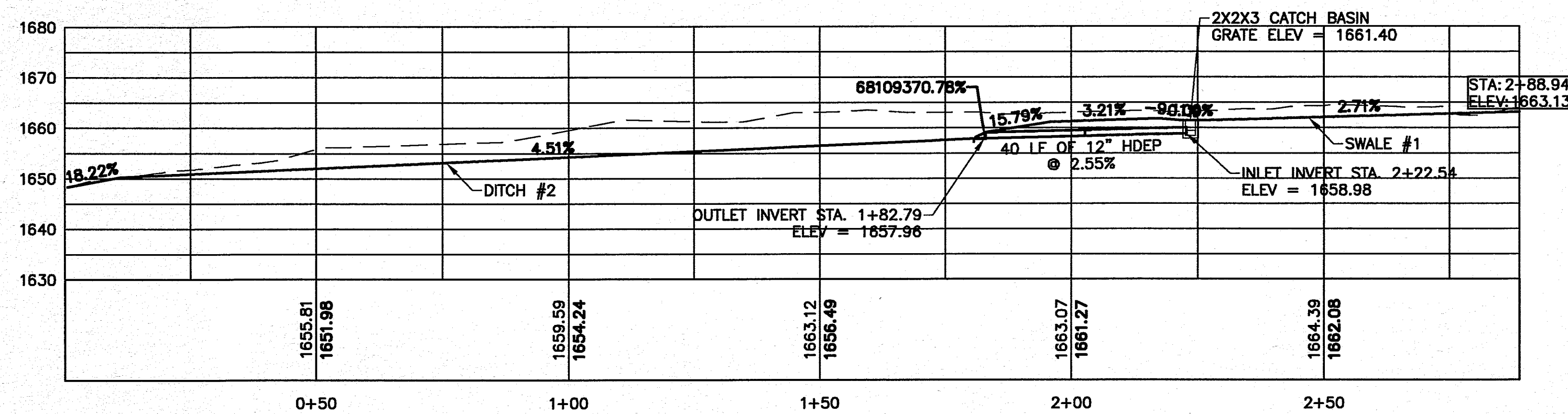
CR 36 TO CR 21 NW EP PROFILE
SCALE: 1" = 20 HOR., 1" = 20 VERT.



COUNTY ROAD 21 NE EP PROFILE
SCALE: 1" = 20 HOR., 1" = 20 VERT.



CULVERT C2117230 AND DITCH #1 PROFILE
SCALE: 1" = 20 HOR., 1" = 20 VERT.



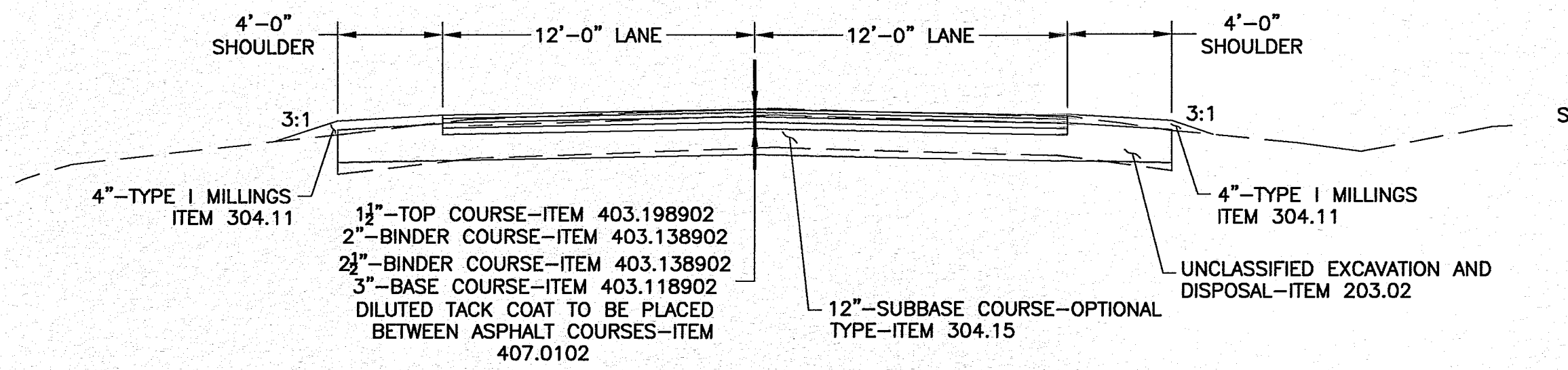
SWALE #1, CATCH BASIN, DRIVEWAY PIPE AND DITCH #2 PROFILE
SCALE: 1" = 20 HOR., 1" = 20 VERT.

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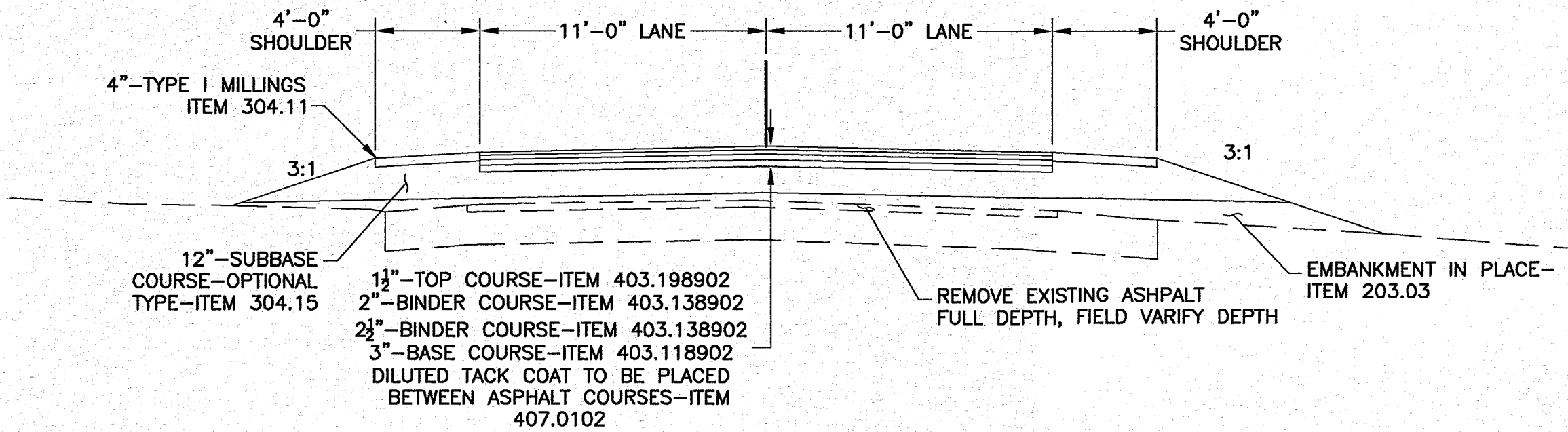
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PROFILES
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21



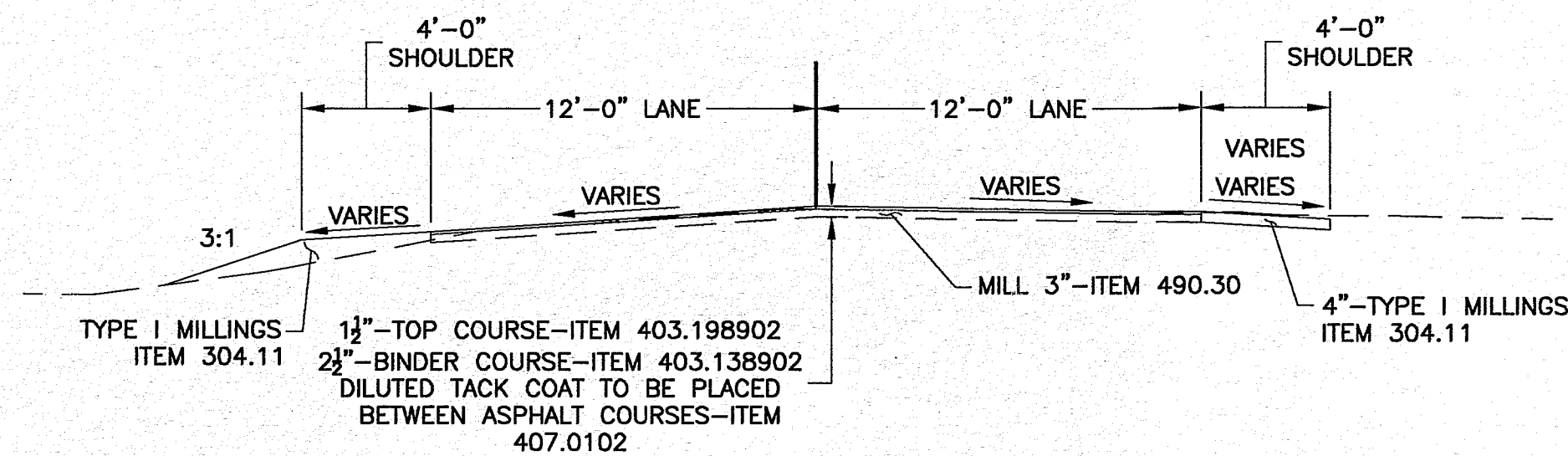
TYPICAL RECONSTRUCTION SECTION

CR36 STA. 159+00 TO 159+97.86
CR21 STA. 172+15.66 TO BRIDGE APPROACH
SCALE: 1"=5'-0"



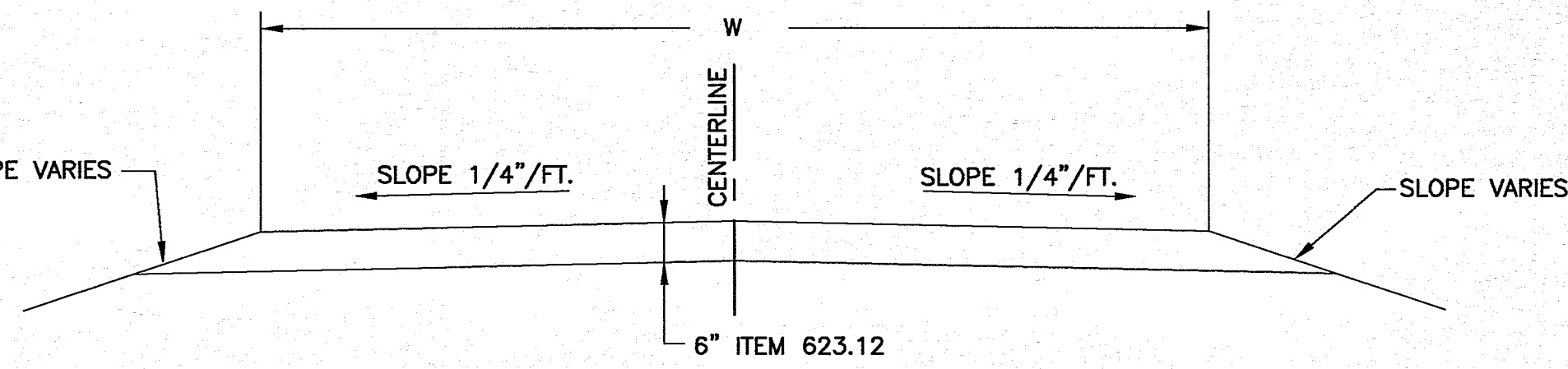
TYPICAL RECONSTRUCTION SECTION

CR21 STA. 168+75 TO 172+03.66
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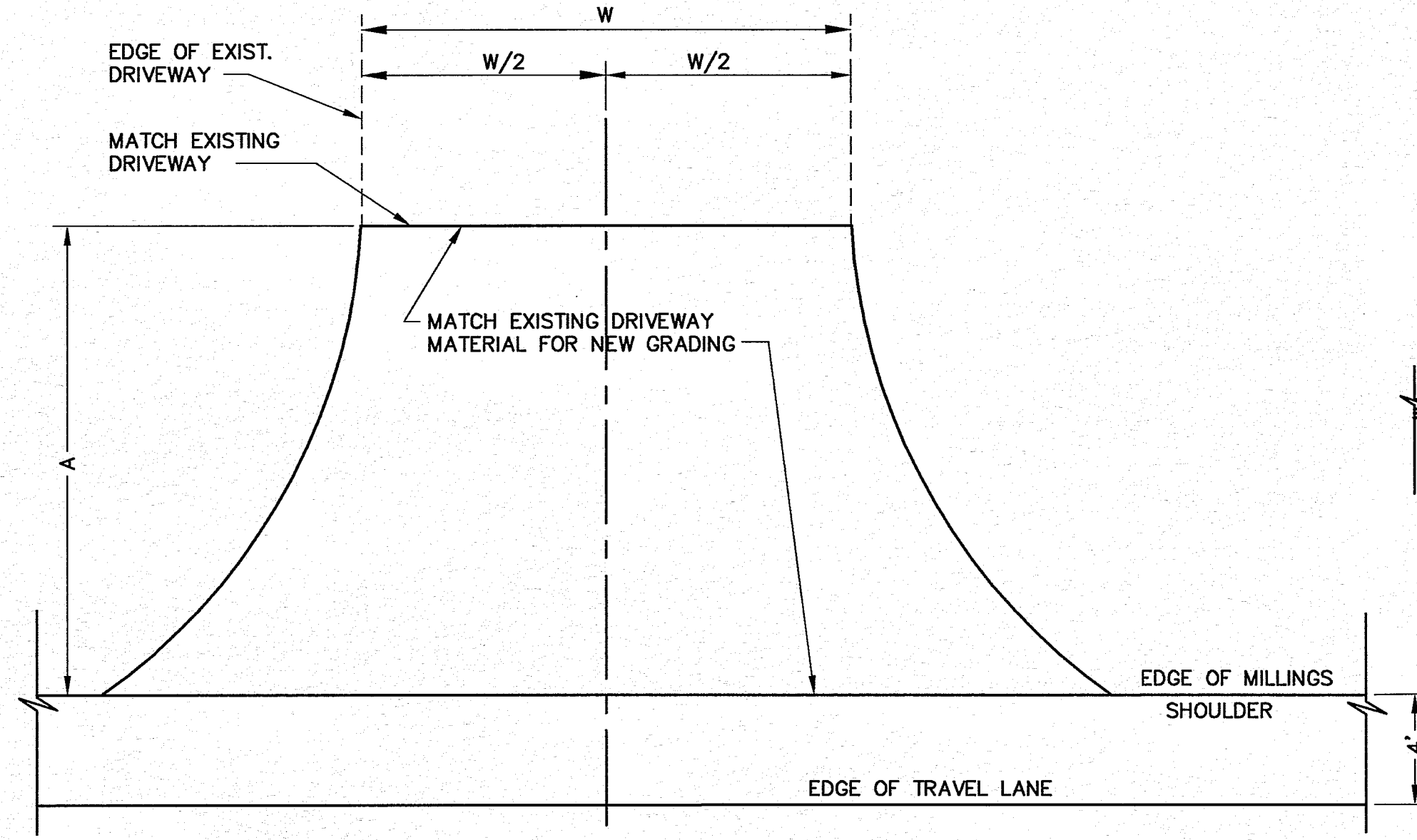
TYPICAL 3" MILL/4" PAVE SECTION

BRIDGE APPROACH TO 184+92.29
SCALE: 1"=5'-0"



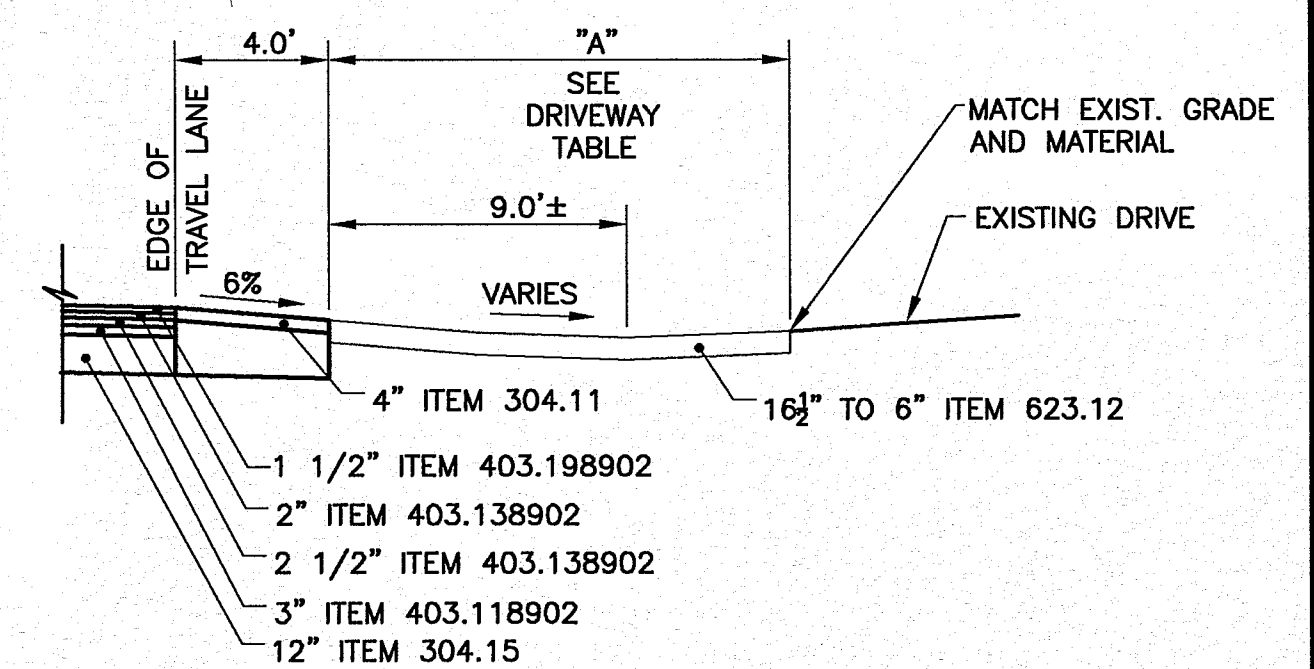
TYPICAL DRIVEWAY SECTION

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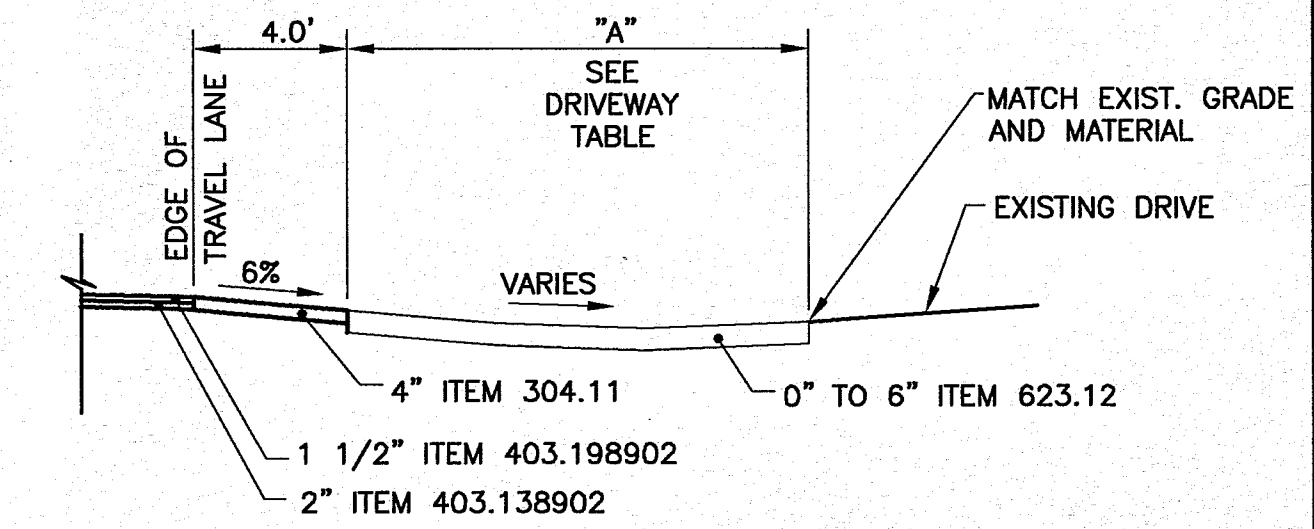
GRAVEL DRIVEWAY PLAN

NOT TO SCALE



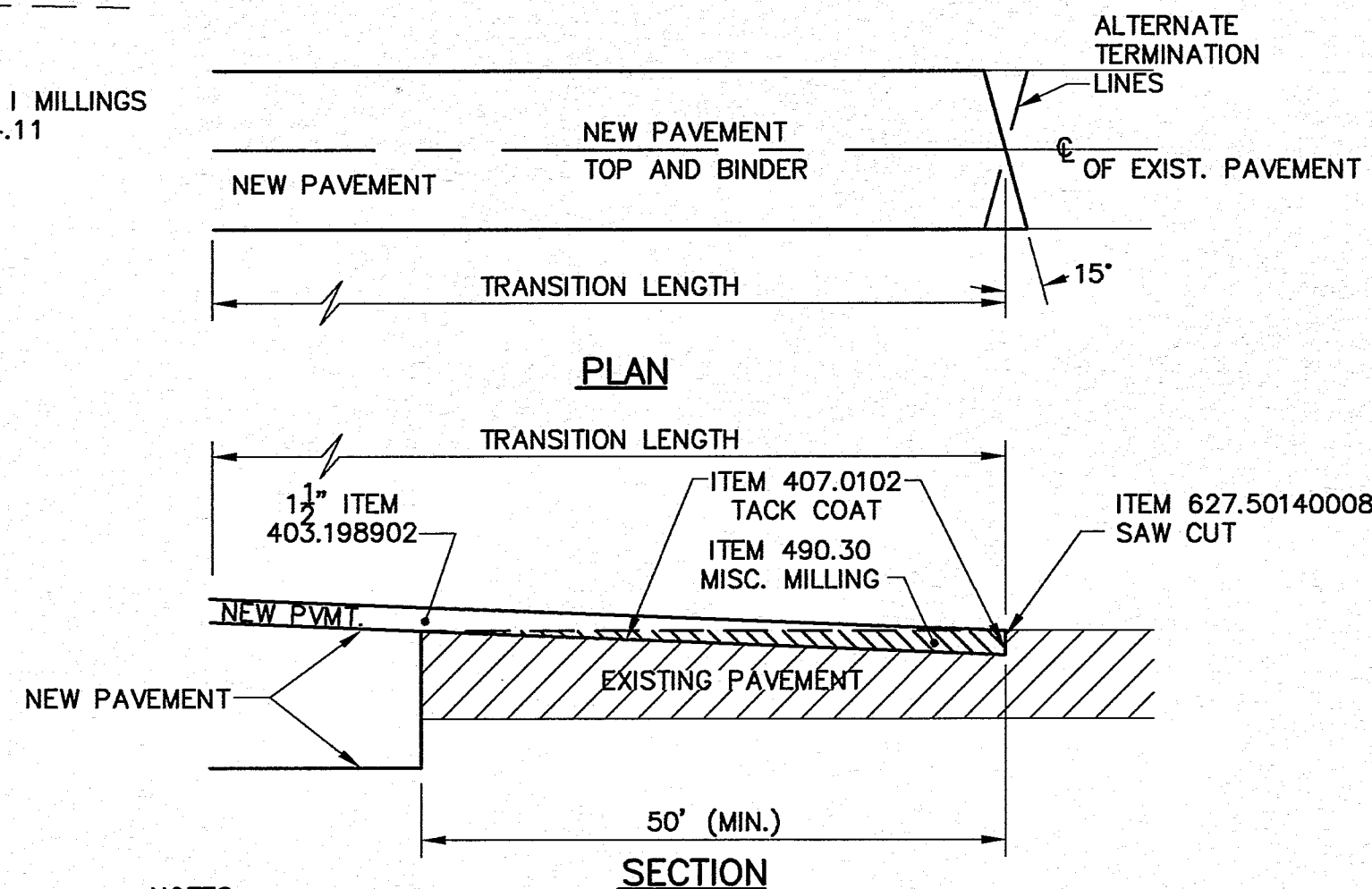
**GRAVEL DRIVEWAY SECTION A-A
(WEST OF THE BRIDGE)**

NOT TO SCALE



**GRAVEL DRIVEWAY SECTION A-A
(EAST OF THE BRIDGE)**

NOT TO SCALE



DETAIL FOR TRANSITION OF NEW PAVEMENT TO EXISTING PAVEMENT

NOT TO SCALE

NOTES:

- BUTT JOINTS WILL BE REQUIRED ON CR #30 AT THE JUNCTION OF THE NEW AND EXISTING PAVEMENTS, AT MAJOR INTERSECTIONS OR A.O.B.E. TO PROVIDE A SMOOTH RIDING PAVEMENT TRANSITION.
- THE LENGTH OF TRANSITION WILL BE DETERMINED BY THE EXISTING GRADIENTS, DEPTH OF NEW ASPHALT COURSES AND A.O.B.E. AREAS THAT ARE OVER-EXCAVATED OR ROUGH CUT SHALL BE BROUGHT UP TO "PROPOSED PAVEMENT REMOVAL LIMITS" WITH AN ACCEPTABLE LEVELING COURSE. TACK COAT SHALL MEET THE REQUIREMENTS OF NYS DOT MATERIAL DESIGNATION 702-90.
- PAYMENT FOR EXCAVATION DISPOSAL, TACK COAT, AND REGRADING SUBBASE COURSES WITHIN THE SLOTTED AREAS SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ASPHALT CONCRETE ITEMS IN THE CONTRACT.
- STAIR STEP EACH TRANSITION LAYER OF ASPHALT PLACEMENT.

DRIVEWAY TABLE						
STATION	SIDE	RES./COMM.	MATERIAL	WIDTH (FT)	LENGTH "A" (FT)	COMMENTS
169+85.50	LT.	COMM.	GRAVEL	113'±	27'±	
171+71.45	LT.	COMM.	GRAVEL	30'±	35'±	
173+07.58	RT.	RES.	GRAVEL	24'±	47'±	
174+12.96	LT.	COMM.	GRAVEL	27'±	9'±	NYSDEC PARKING AREA
178+08.28	LT.	COMM.	GRAVEL	51'±	9'±	
179+25	RT.	RES.	GRAVEL	33'±	9'±	
180+00	RT.	RES.	GRAVEL	45±	9'±	
180+93	LT.	RES.	GRAVEL	22'±	9'±	
181+88	LT.	RES.	GRAVEL	23'±	9'±	
182+70	LT.	RES.	GRAVEL	23'±	9'±	
184+26	RT.	RES.	REAVEL	20'±	9'±	

NOTES

- PRIOR TO CONSTRUCTION OF FIELD DRIVES, E.I.C. WILL BE RESPONSIBLE TO CONTACT PROPERTY OWNERS TO VERIFY IF THEY ARE BEING UTILIZED AND/OR WANTED.

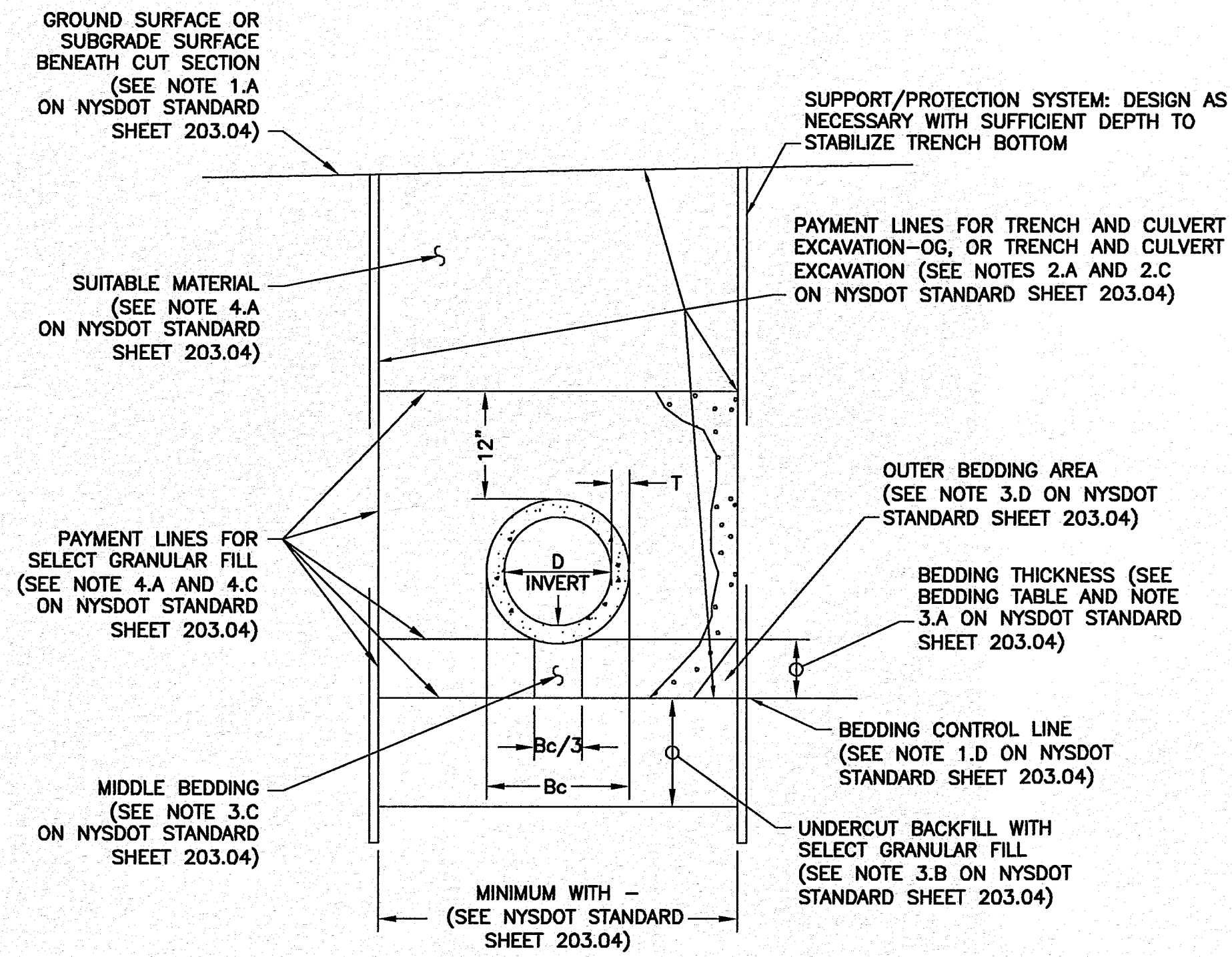
NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

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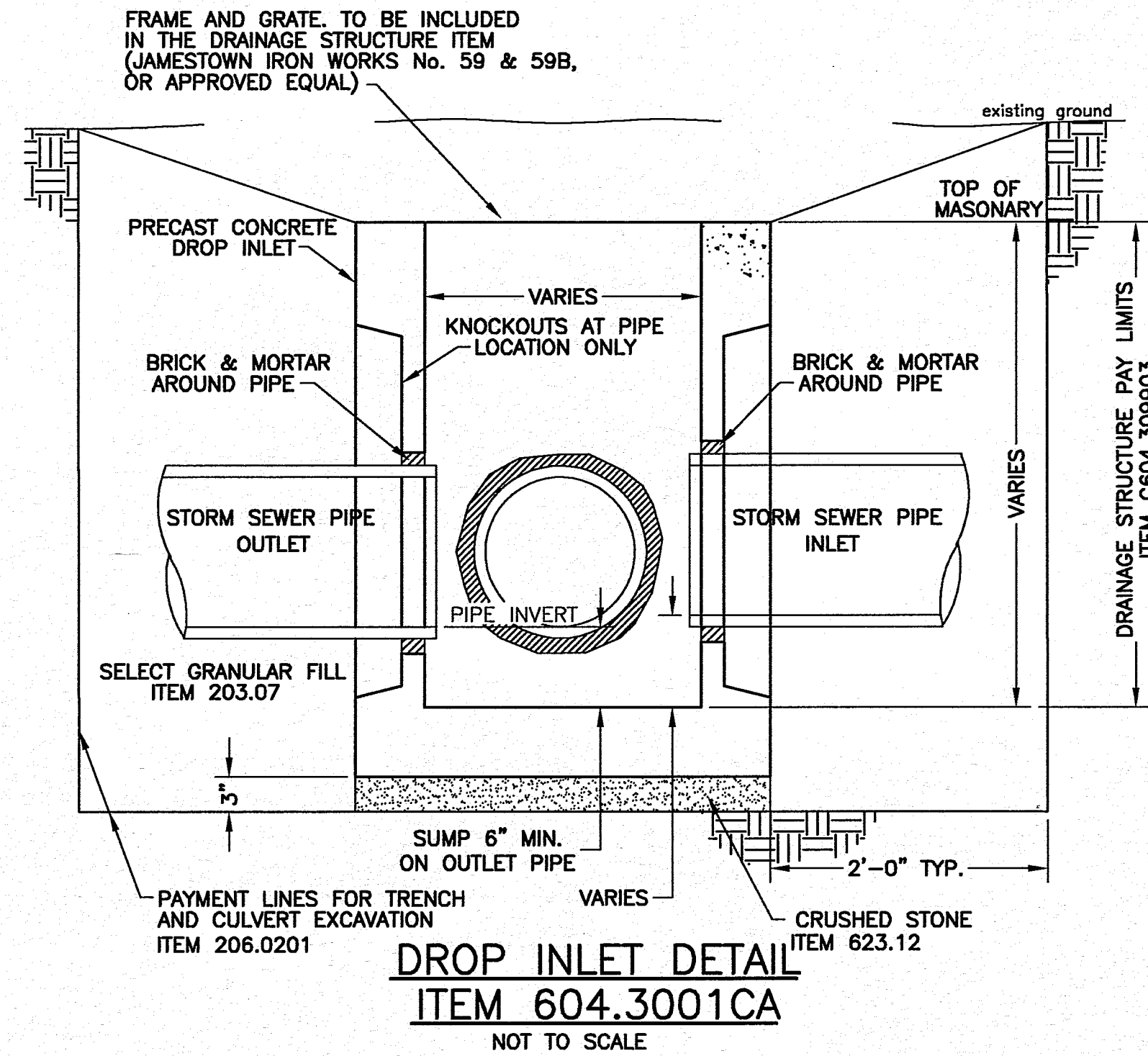
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4
INTERSECTION OF COUNTY ROAD 36 AND 21

DATE: JUNE 21, 2019
SCALE: 1"=50'-0"
SURVEY #
BK.
LOT
PG.
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T
REVISIONS
DWG.
CON. MCB
TR.
CK.

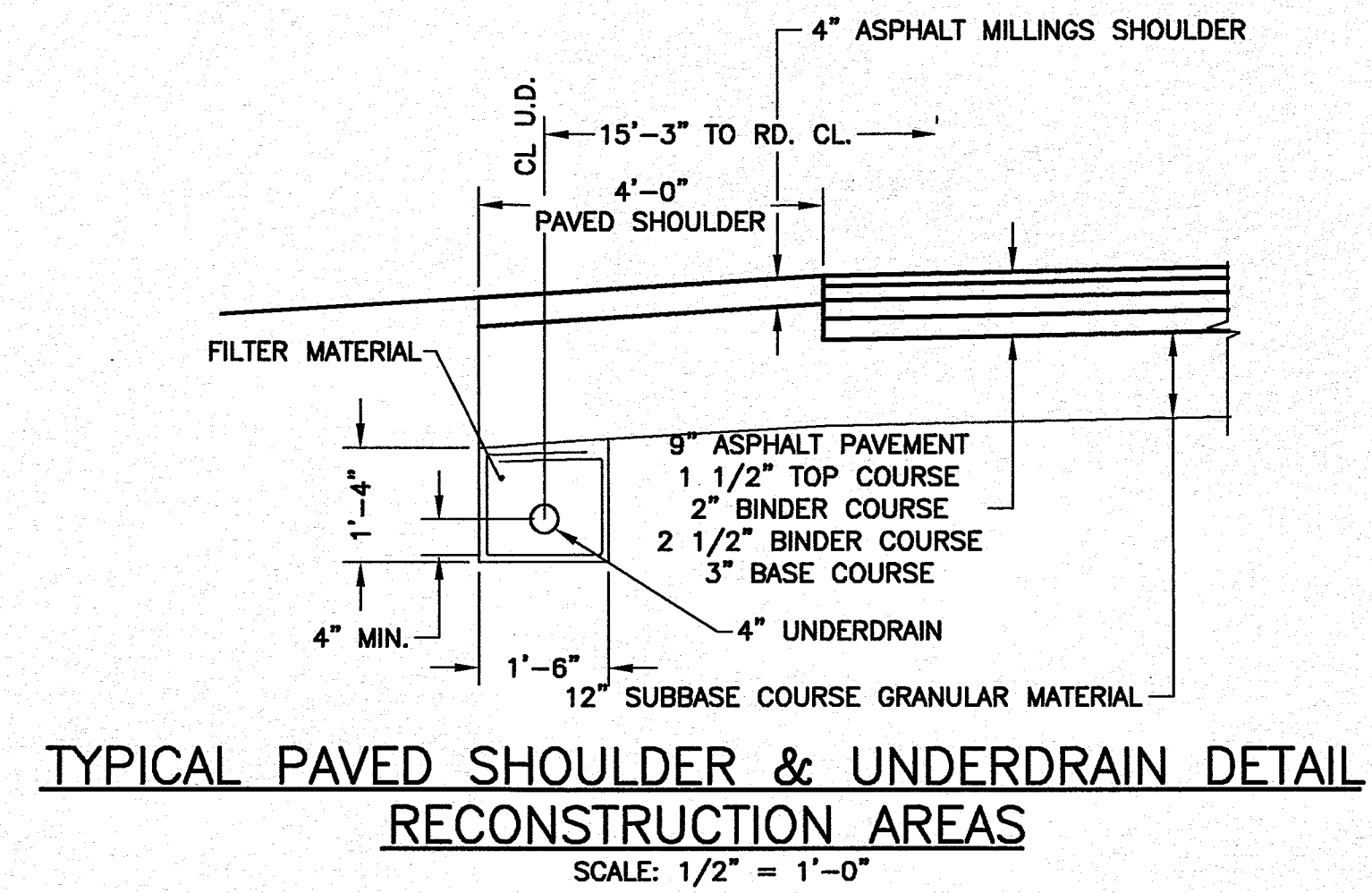
SHEET OF 25
PROJECT NO. H.5198.25093



**INSTALLATION METHOD A-1
TRENCH AREA BENEATH ROADWAY,
PAVEMENTS, AND SURFACE LOADS**
SEE NYSDOT STANDARD SHEET 203-04
NOT TO SCALE



**DROP INLET DETAIL
ITEM 604.3001CA**
NOT TO SCALE



**TYPICAL PAVED SHOULDER & UNDERDRAIN DETAIL
RECONSTRUCTION AREAS**
SCALE: 1/2" = 1'-0"

DRAINAGE STRUCTURE TABLE

D.S. NO.	STATION	DESCRIPTION	RIM ELEVATION	ELEVATION FROM	ELEVATION TO	603.171116-GALVANIZED STEEL END SECTION - PIPE (2 - 2/3" X 1/2" CORRUGATIONS) 15" DIAMETER, 16 GAUGE(EA)	603.67020008-REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, END SECTION, CLASS HE III, 19" RISE X 30" SPAN (EA)	COMMENTS
P1	(CR36) 159+92.39 TO (CR21) 172+66.98	96 LF RCHEP, CLASS HE III, 19" X 30"		1660.70	1655.52		2	ES-1 AND ES-2
P3	(CR21) 172+25 TO (CR21) 172+86.71	62± LF OF 4" PCPUT		1661.10	1659.16			
P4	(CR21) 172+86.71 TO (CR21) 172+90.40	6± LF OF 4" PCPUT		1659.16	1658.88			
CB-1	(CR21) 172+90.40	2'X2'X3' CATCH BASIN	1661.40					
P5	DB-1 TO (CR21) 173+31.10	40± LF OF 12" HDPE		1658.98	1657.96	1		ES-3
CB-2	(CR 21) 170+50	2'X2'X3' CATCH BASIN	1652.48					
P6	DB-1 TO (CR21) 170+50	60± LF OF 12" HDPE		1650.10	1649.50	1		ES-4

603.6702-REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE III, 19" RISE X 30" SPAN
603.9812-SMOOTH INTERIOR CORRUGATED POLYETHYLENE CULVERT AND STORM DRAIN PIPE, 12" DIAMETER
C604.309903-RECTANGULAR DRAINAGE STRUCTURE, 2' X 2'
605.1501-PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 4" DIA.

NOTE: BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

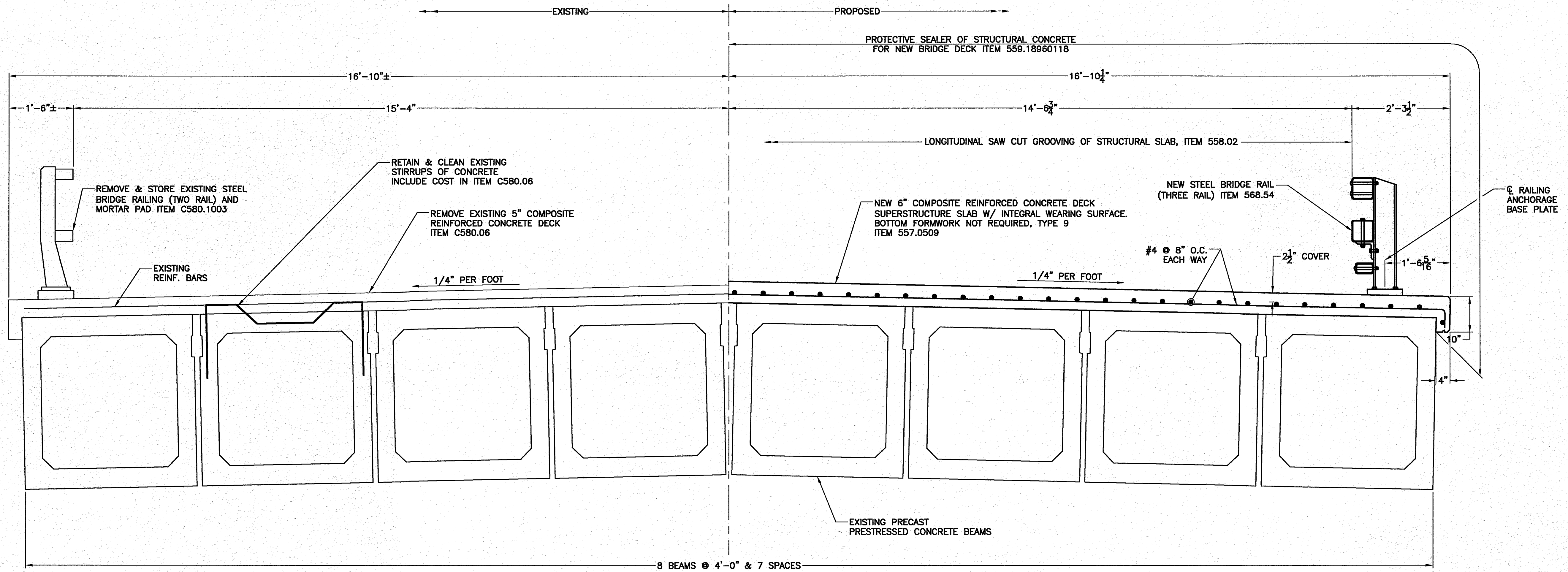
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DATE: JUNE 21, 2019	DATE	CK.
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SCALE:	DWG.	MCB
SURVEY #	PC.	TR.
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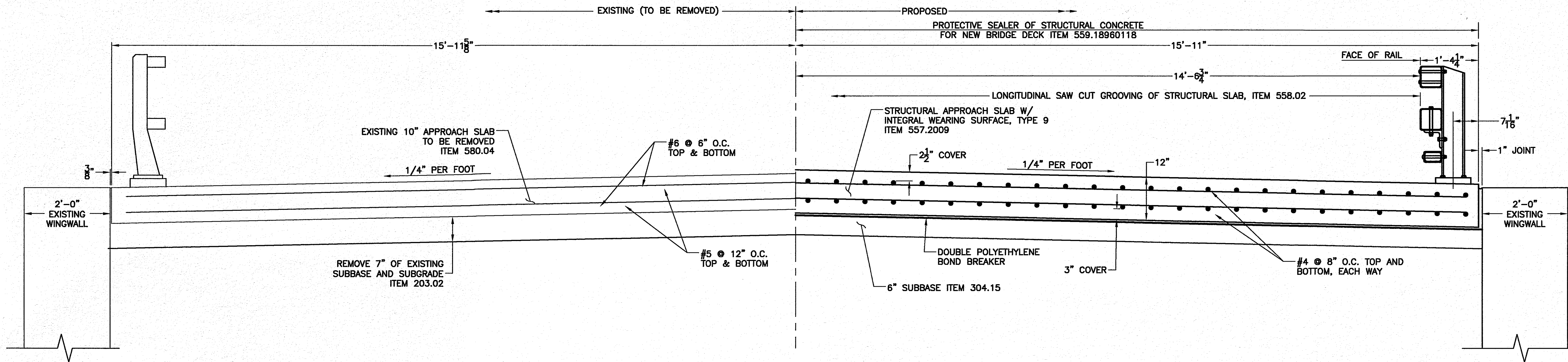
MISCELLANEOUS DETAILS AND TABLES
TOWN OF FREEDOM
**COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 4**
INTERSECTION OF COUNTY ROAD 36 AND 21

SHEET OF
13 25
PROJECT NO.
H.5198.25093



TYPICAL BRIDGE SECTION

SCALE: 3/4" = 1'-0"



TYPICAL APPROACH SLAB SECTION

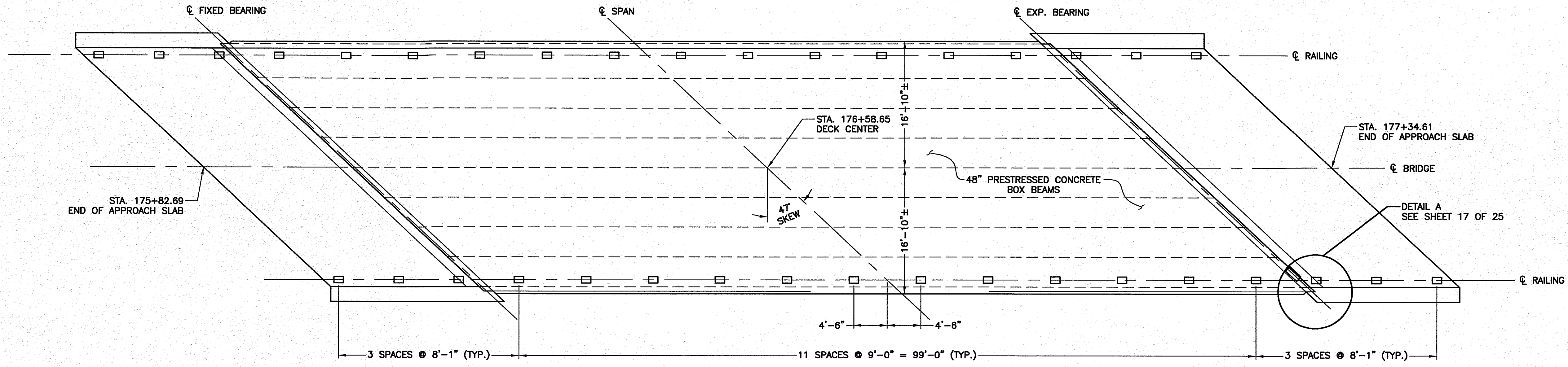
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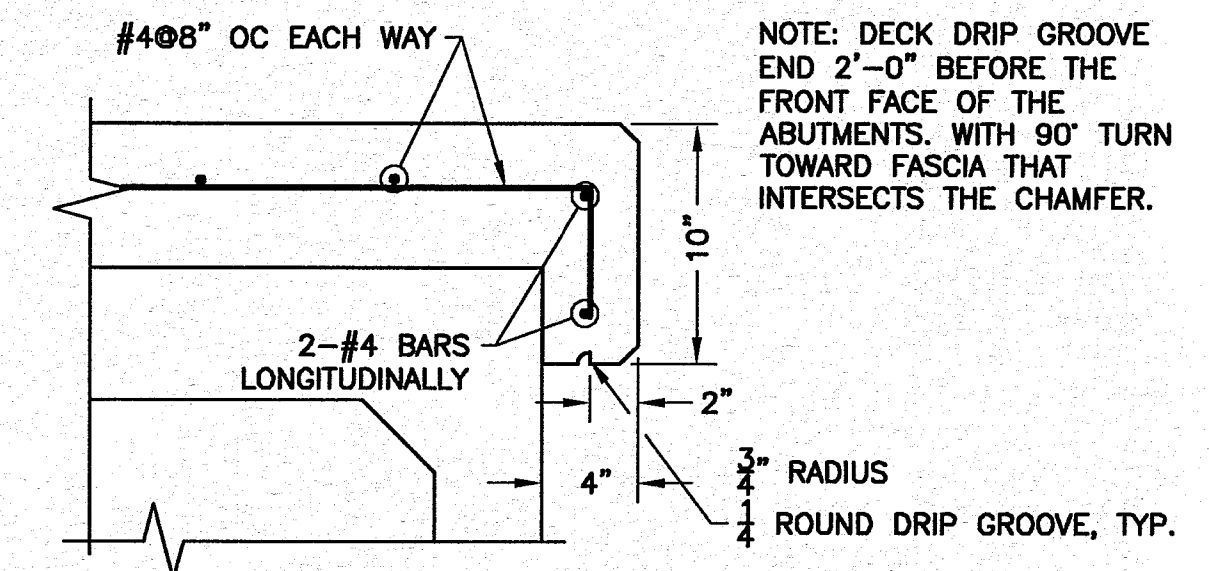
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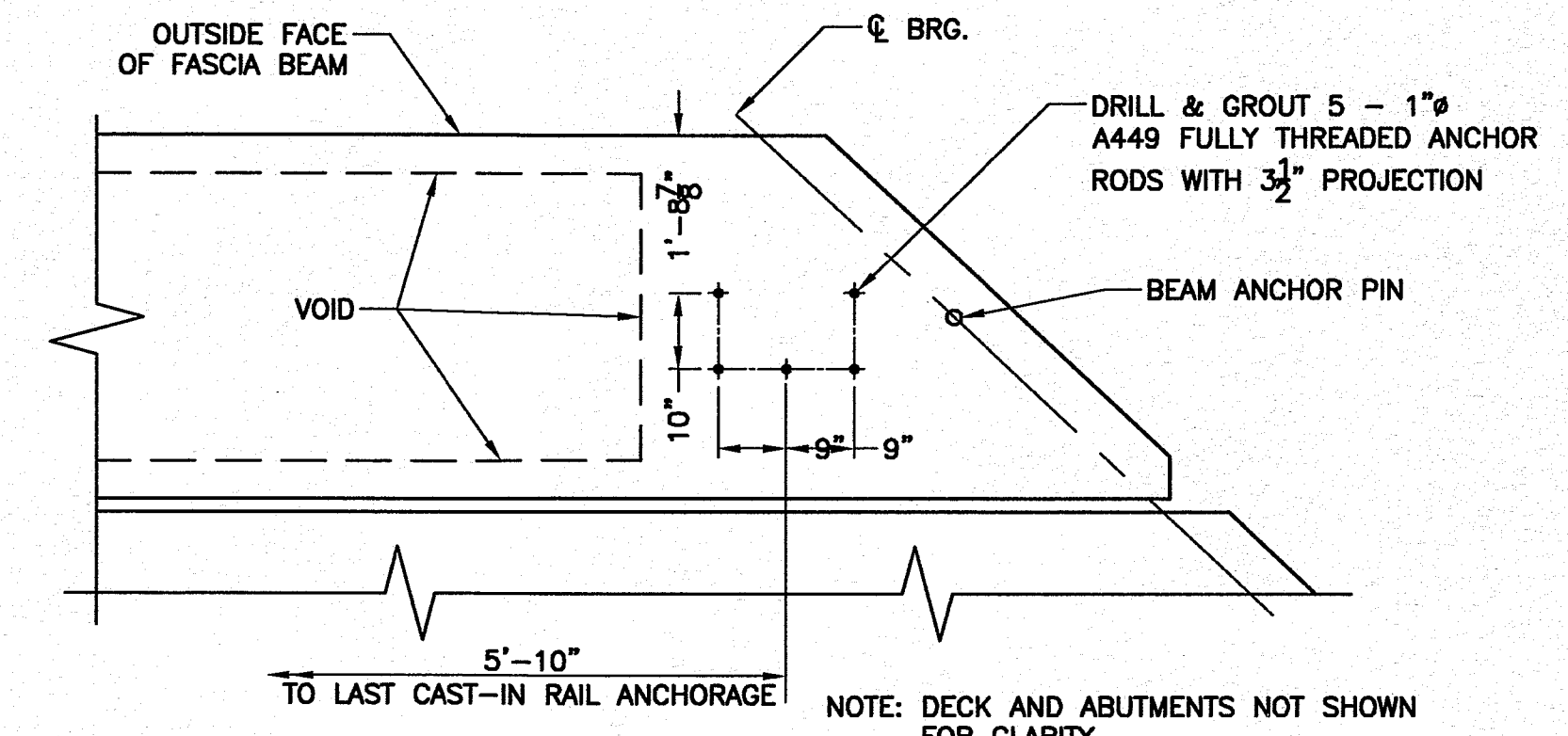
TYPICAL BRIDGE SECTIONS
 TOWN OF FREEDOM
 COUNTY ROAD 36 AND COUNTY ROAD 21
 FREEDOM BRIDGE 4
 INTERSECTION OF COUNTY ROAD 36 AND 21



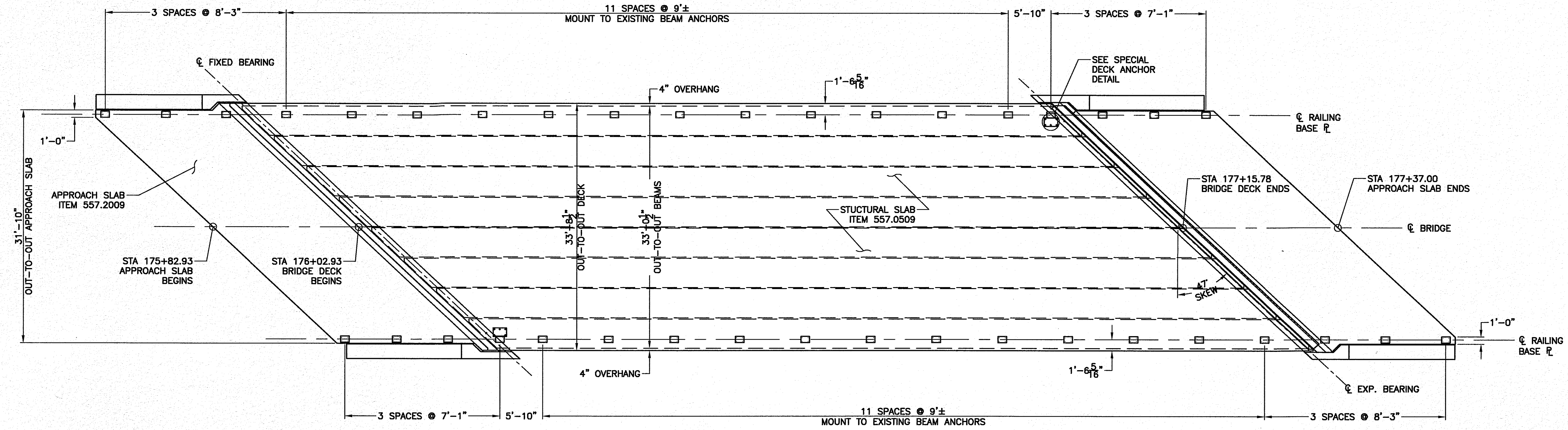
EXISTING DECK PLAN
SCALE: 1/8" = 1'-0"



PROPOSED FASCIA DETAIL
SCALE: 1 1/2" = 1'-0"



SPECIAL DECK ANCHOR DETAIL
(2 LOCATIONS)
SCALE: 1/2" = 1'-0"



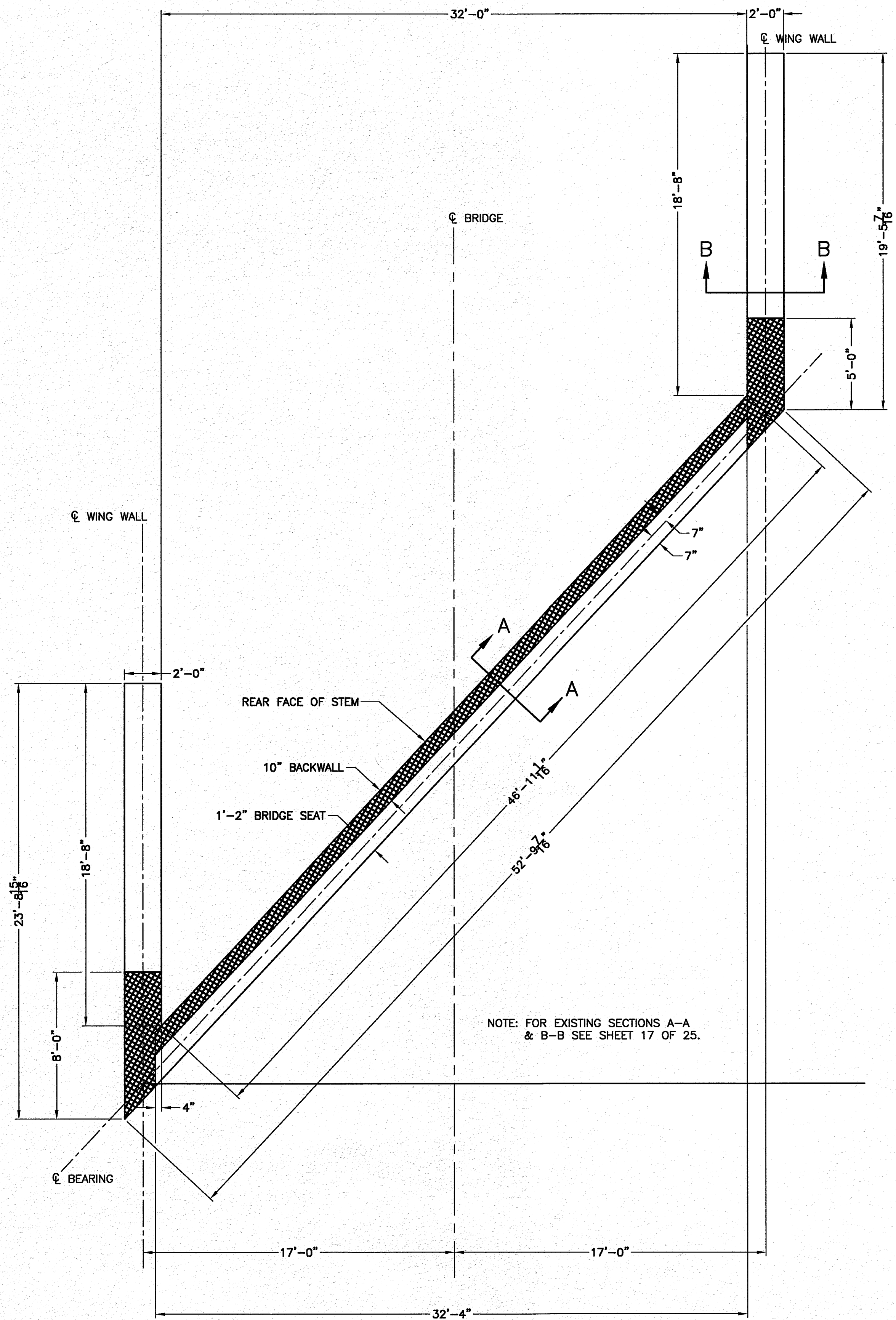
PROPOSED BRIDGE DECK PLAN
SCALE: 1/8" = 1'-0"

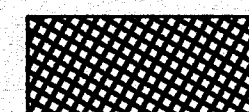
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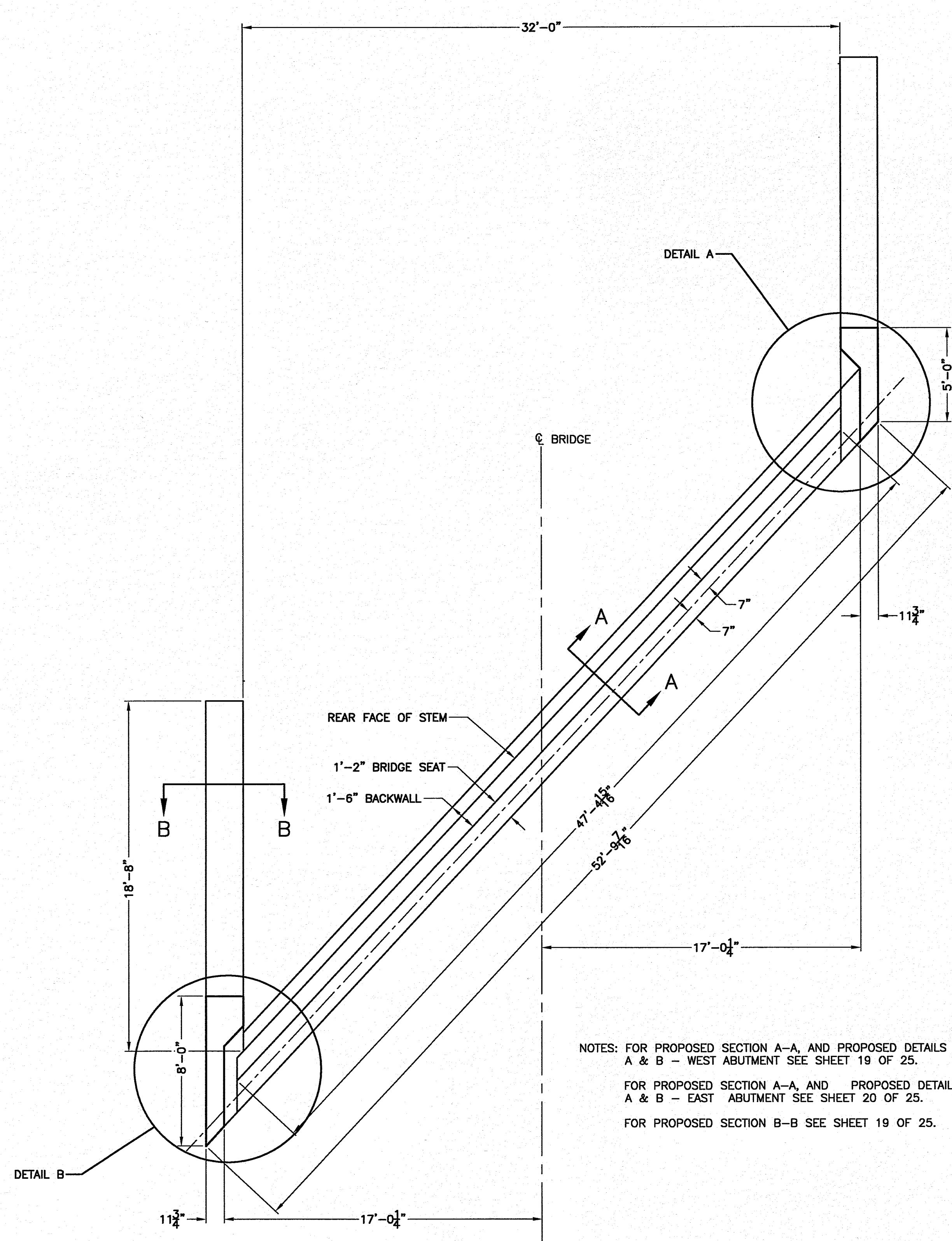
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EXISTING & PROPOSED DECK PLANS
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21




 STRUCTURAL CONCRETE
 TO BE REMOVED, ITEM 580.01

DEMOLITION PLAN - WEST ABUTMENT
 (EAST ABUTMENT SIMILAR - APPROACH SLAB & DECK NOT SHOWN)
 SCALE: 1/4" = 1'-0"



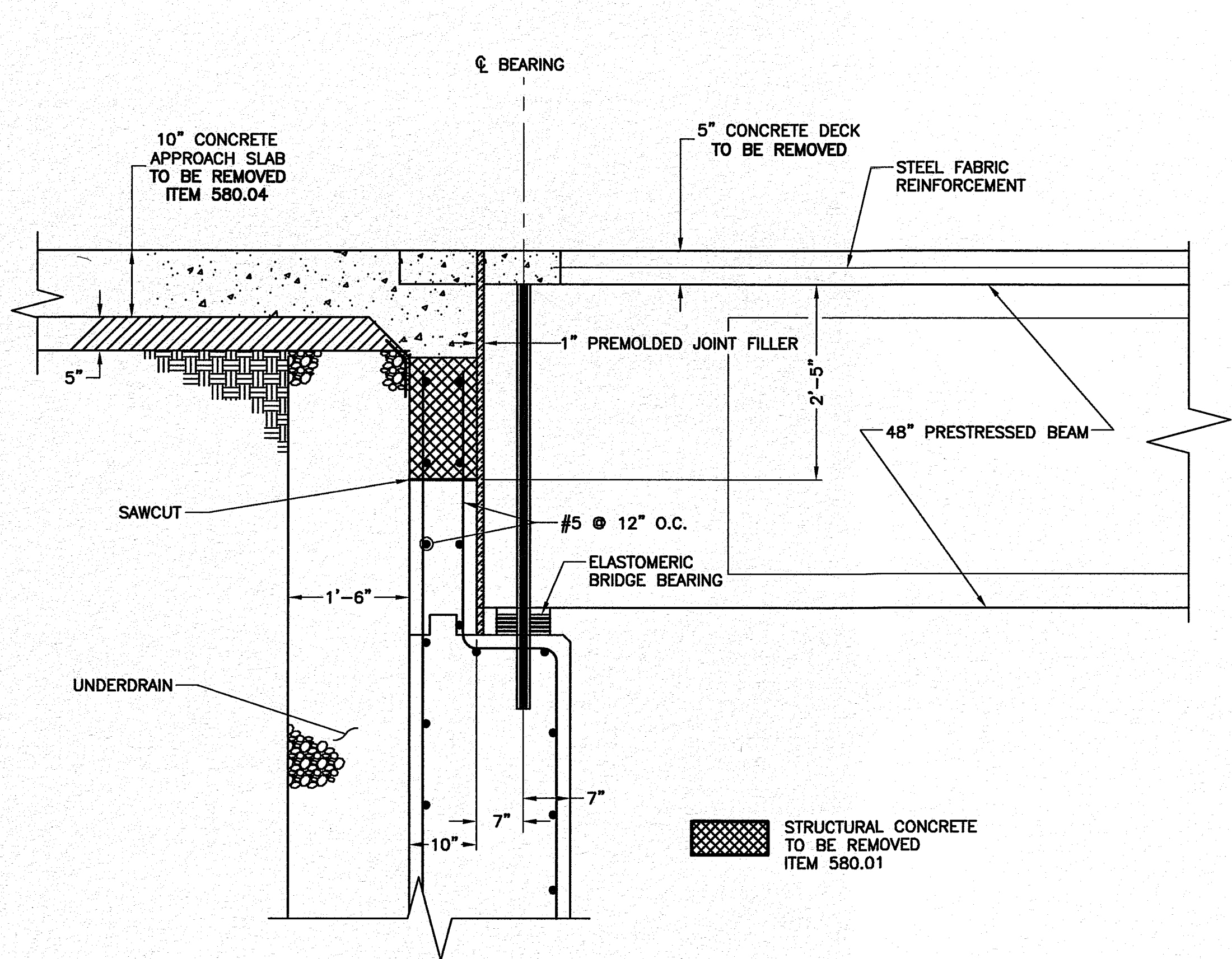
PROPOSED PLAN - WEST ABUTMENT AND WINGWALLS
 (EAST ABUTMENT SIMILAR - APPROACH SLAB & DECK NOT SHOWN)
 SCALE: 1/4" = 1'-0"

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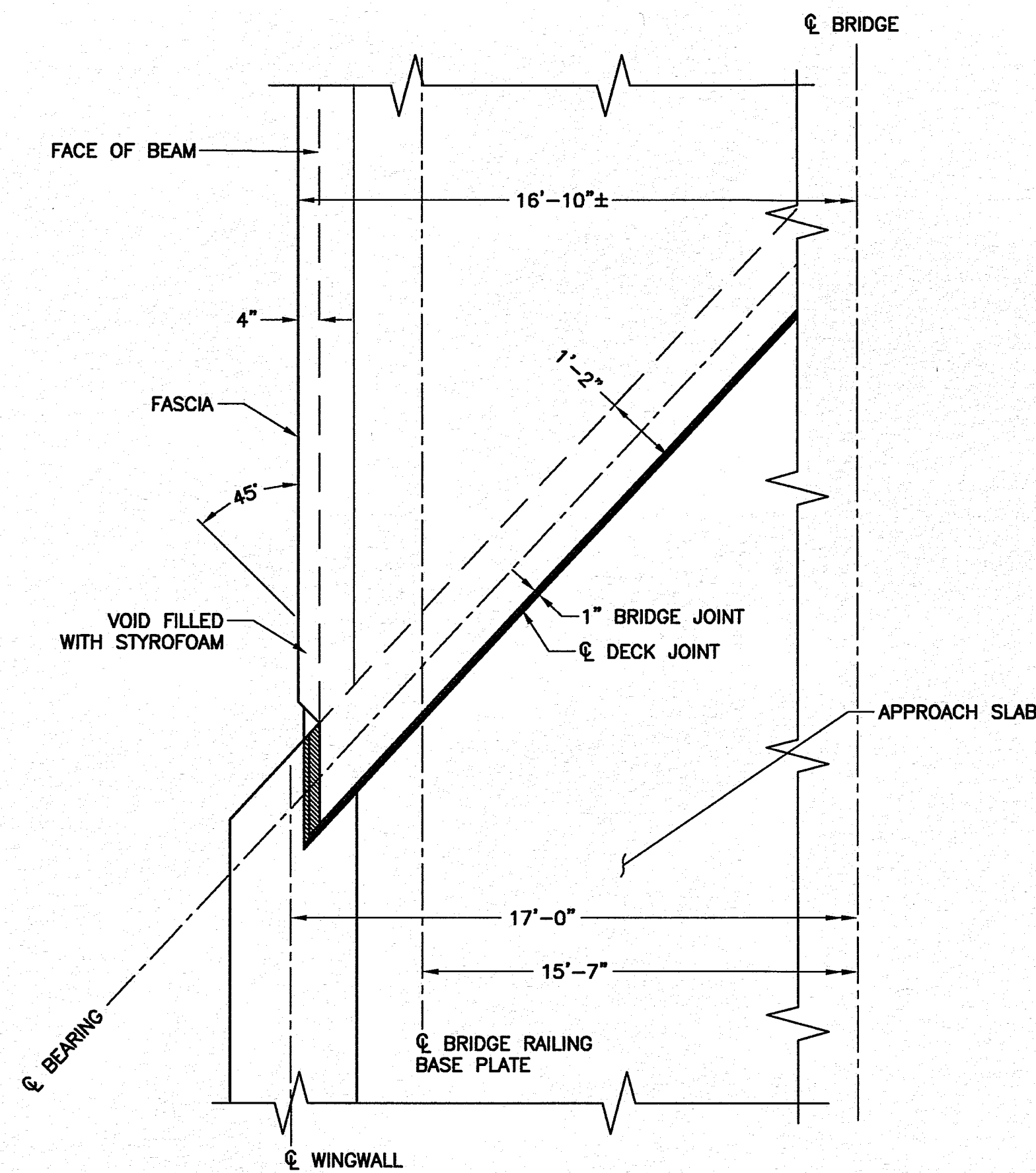
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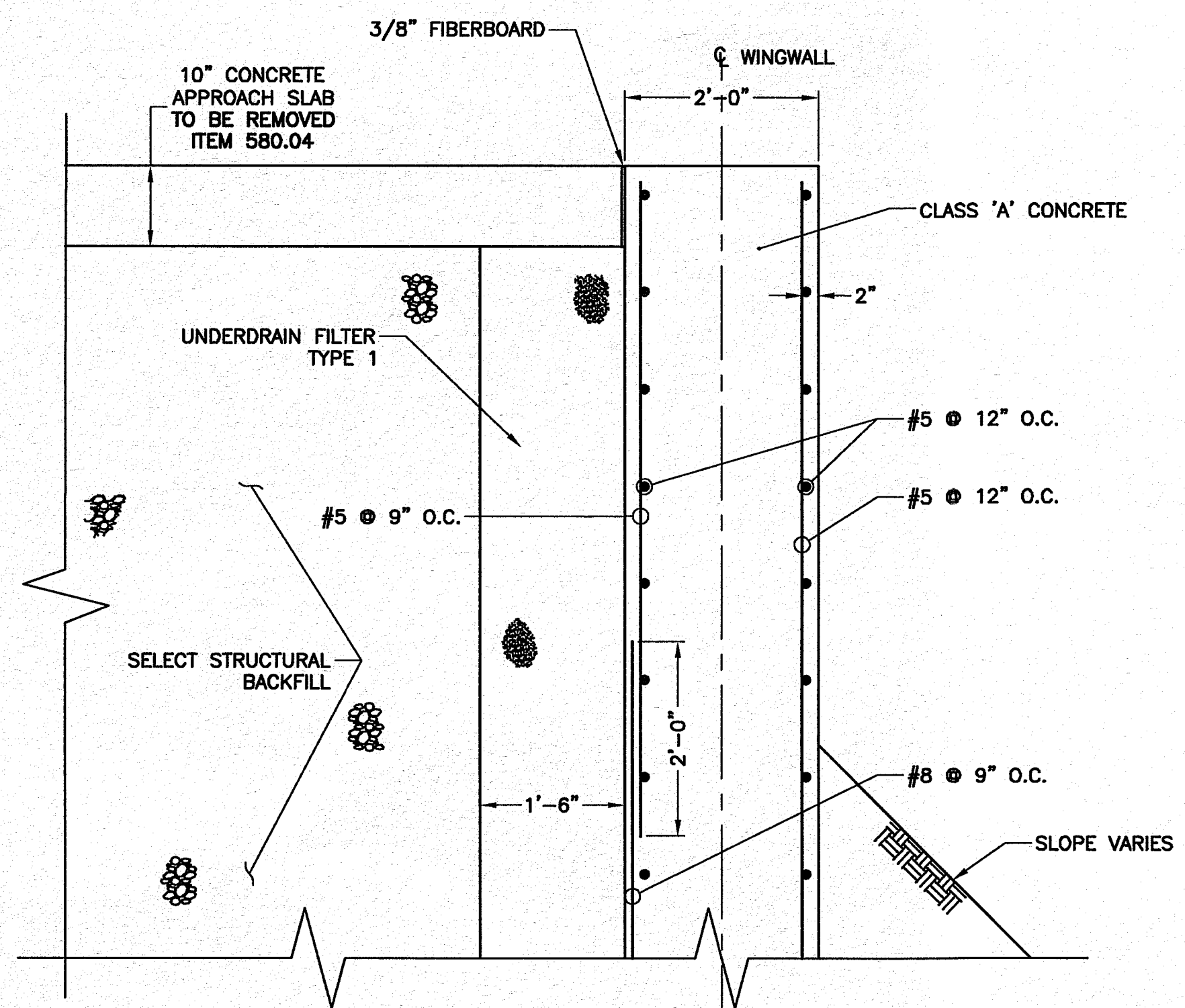
EXISTING & PROPOSE ABUTMENT PLANS
 TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
 INTERSECTION OF COUNTY ROAD 36 AND 21



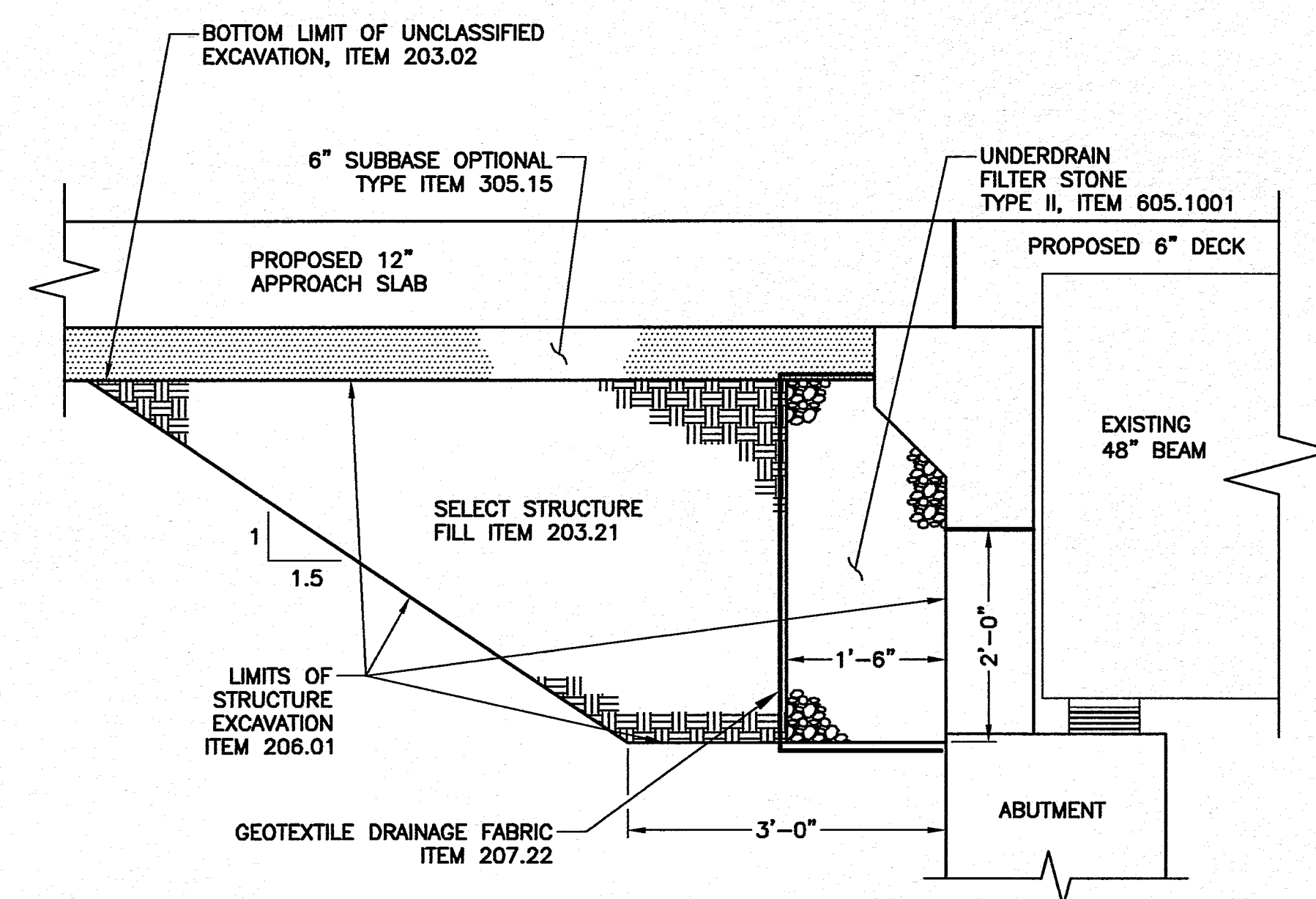
SECTION A-A
EXISTING BRIDGE SEAT DETAIL
 SCALE: 3/4" = 1'-0"



DETAIL A
EXISTING DECK DETAIL AT ABUTMENT
 SCALE: 3/4" = 1'-0"



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



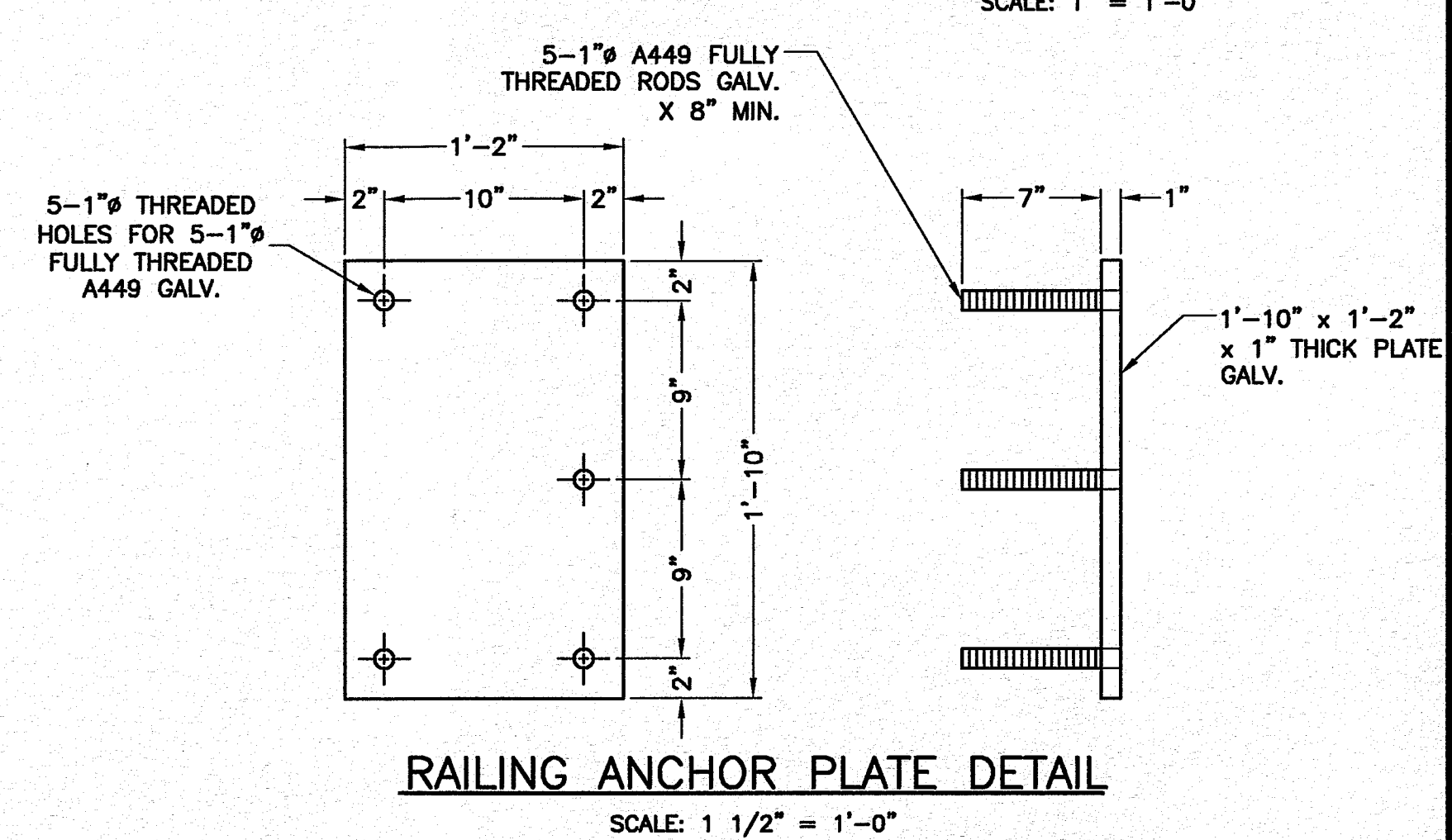
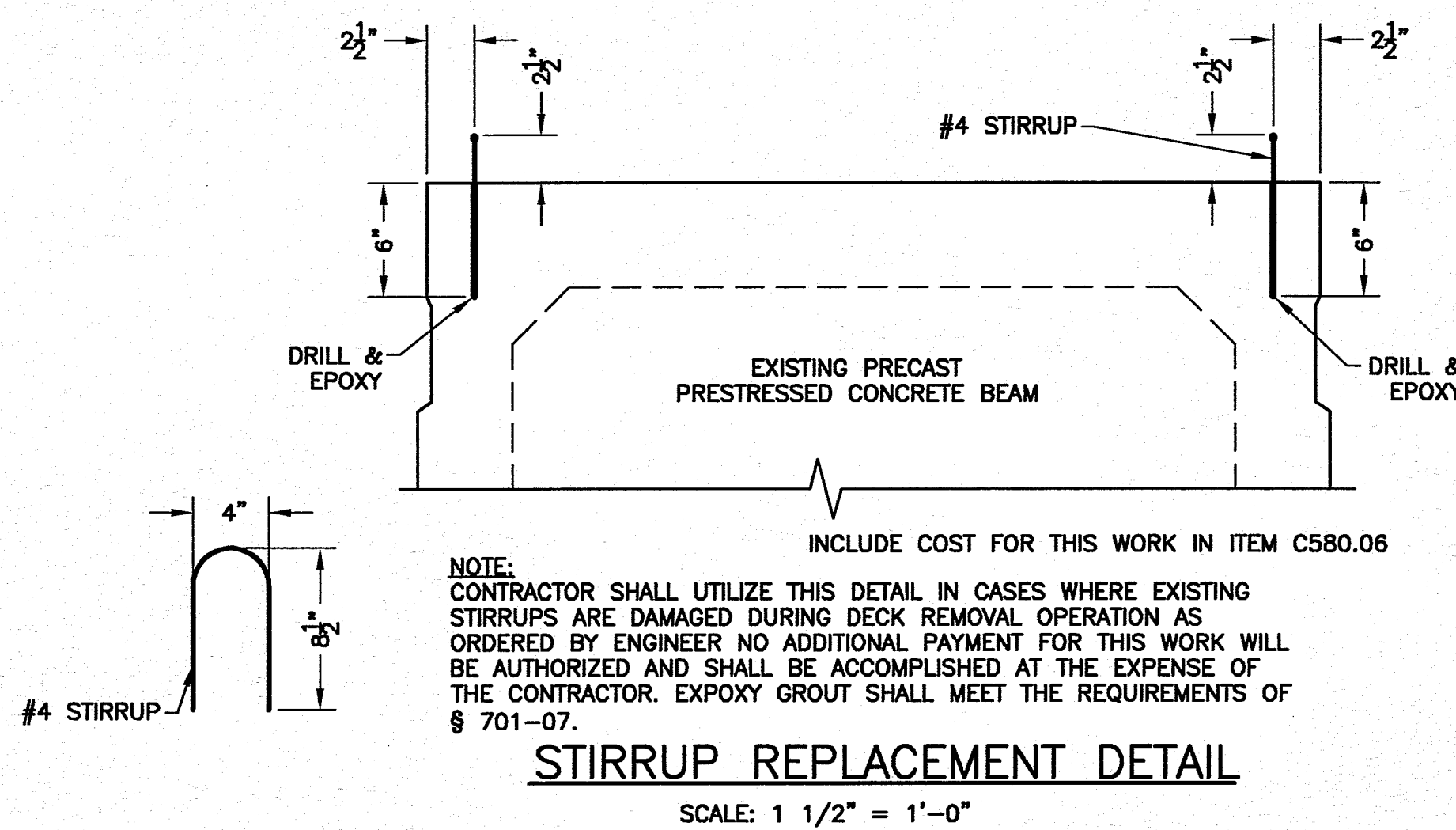
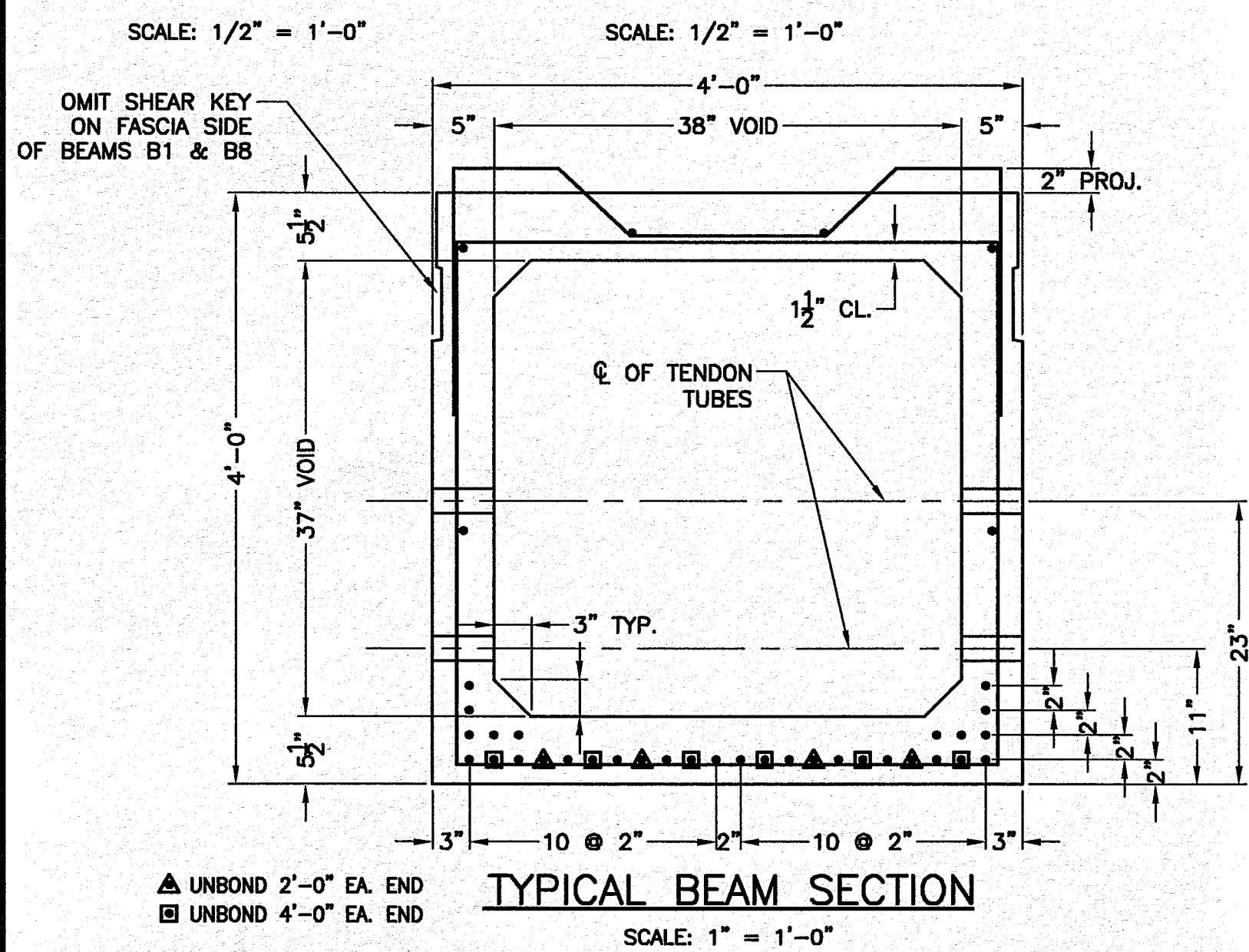
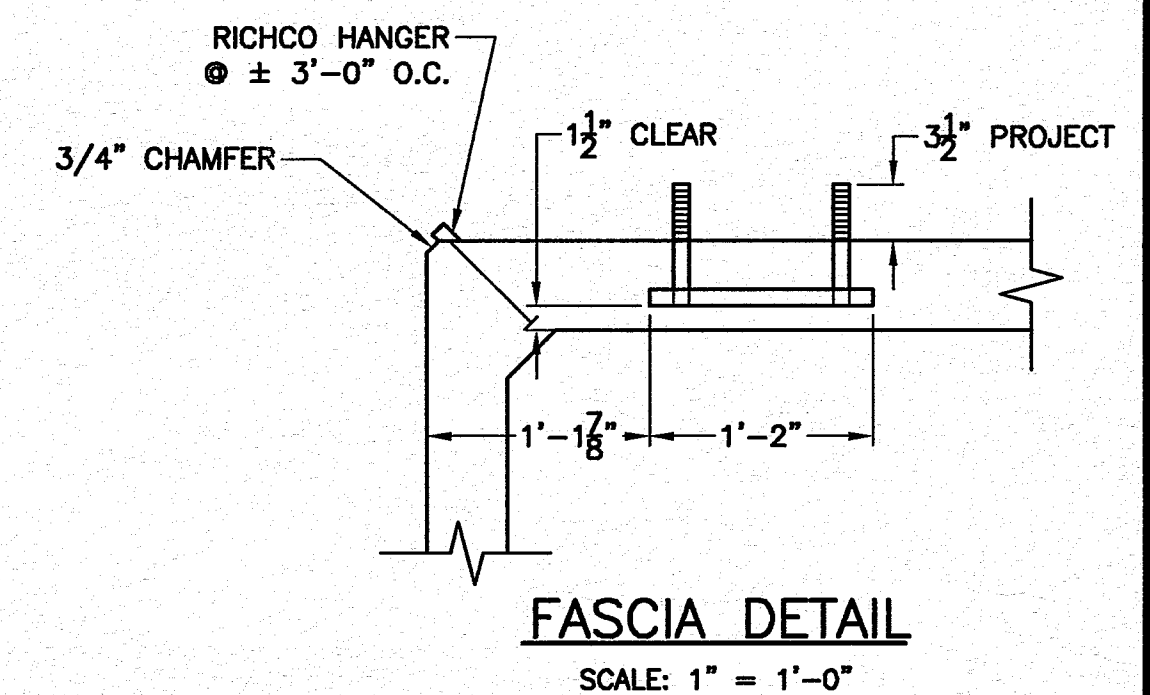
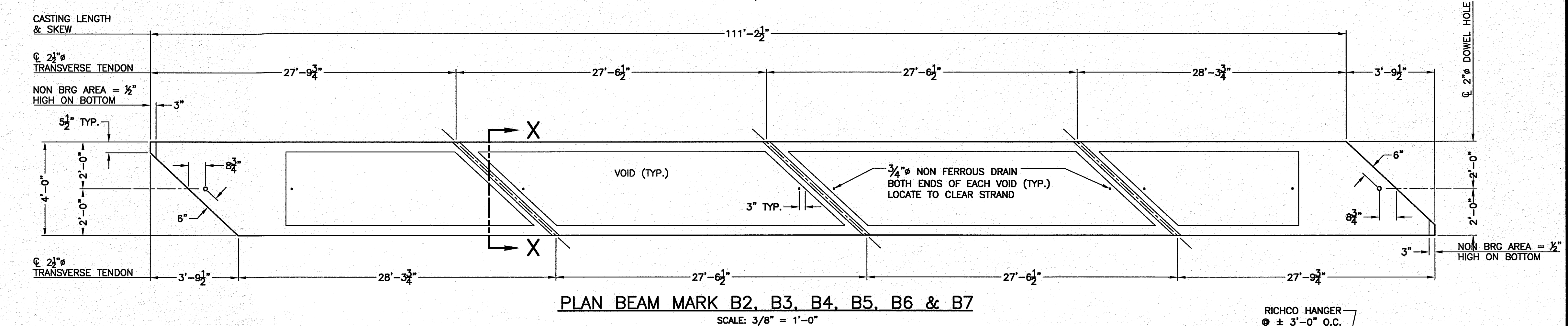
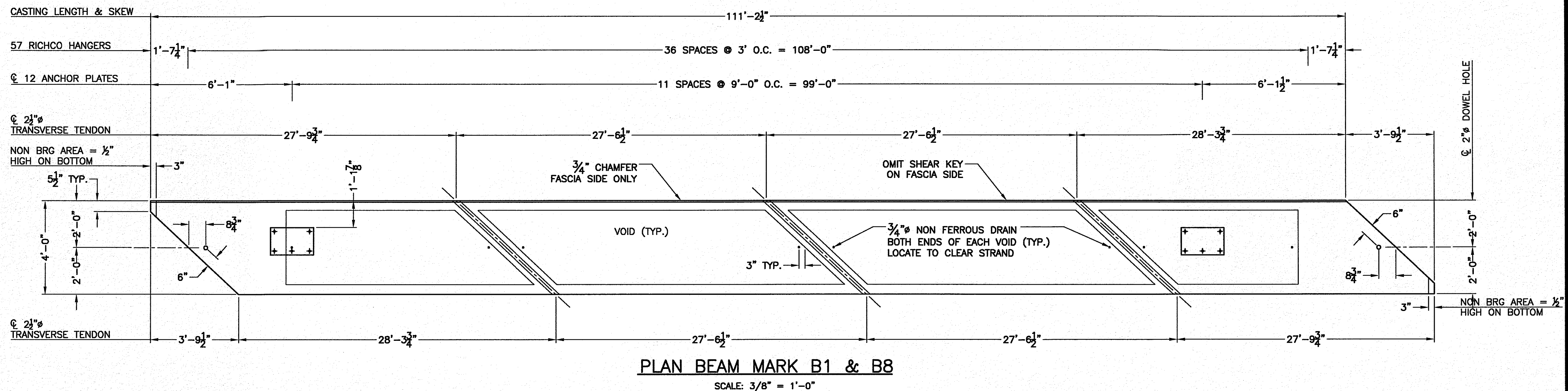
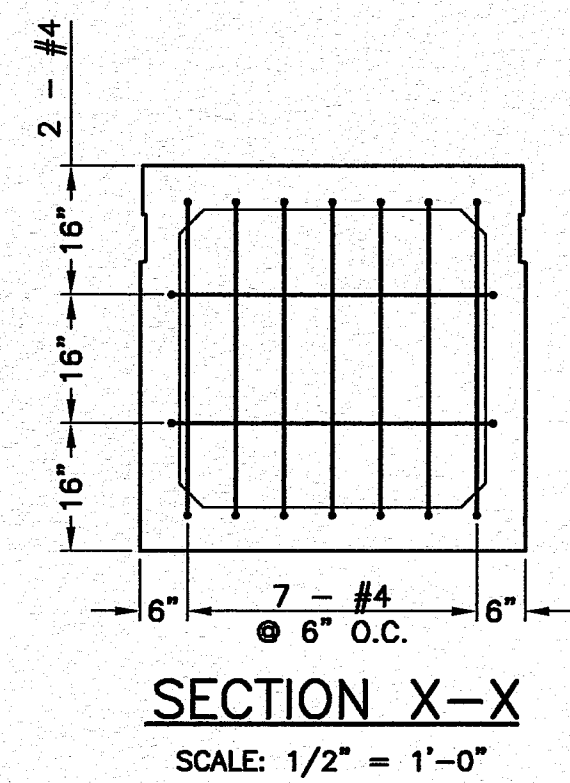
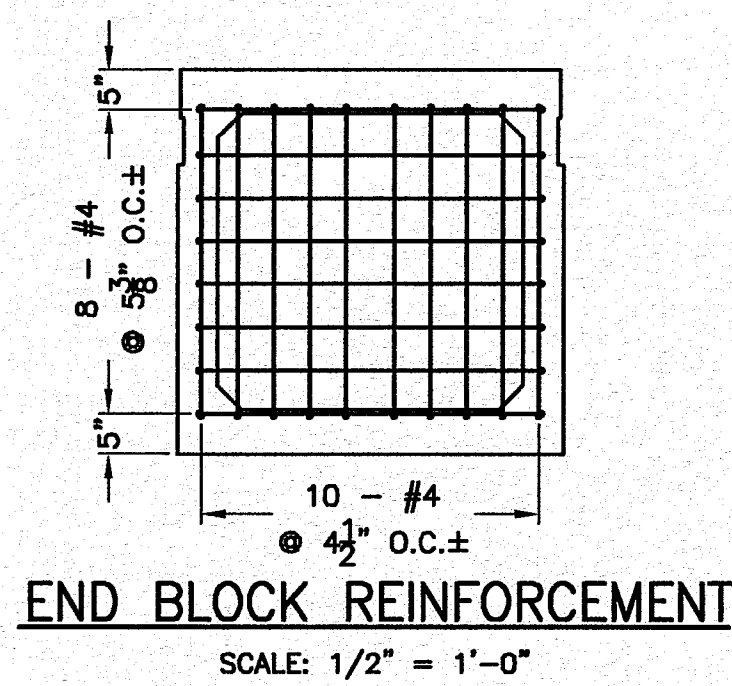
EXCAVATION & EMBANKMENT SECTION
 SCALE: 3/4" = 1'-0"

- CONCRETE REMOVAL NOTES:**
- ① CONCRETE SURFACE SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1" AT LIMITS OF REMOVAL AREA TO PROVIDE A CLEAN EDGE TO THE EXISTING SURFACE. COST FOR SAW CUTTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 580.01. NO SEPARATE PAYMENT SHALL BE MADE.
 - ② ALL EXISTING VERTICAL AND HORIZONTAL R/F SHALL REMAIN.
 - ③ ANY REINFORCEMENT DAMAGED OR IS UNUSABLE AS DETERMINED BY THE ENGINEER SHALL BE REPLACED IN KIND BY DRILLING AND GROUTING NEW REINFORCEMENT INTO THE REMAINING STRUCTURE. THIS REPAIR SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR. NO ADDITIONAL PAYMENT SHALL BE MADE.

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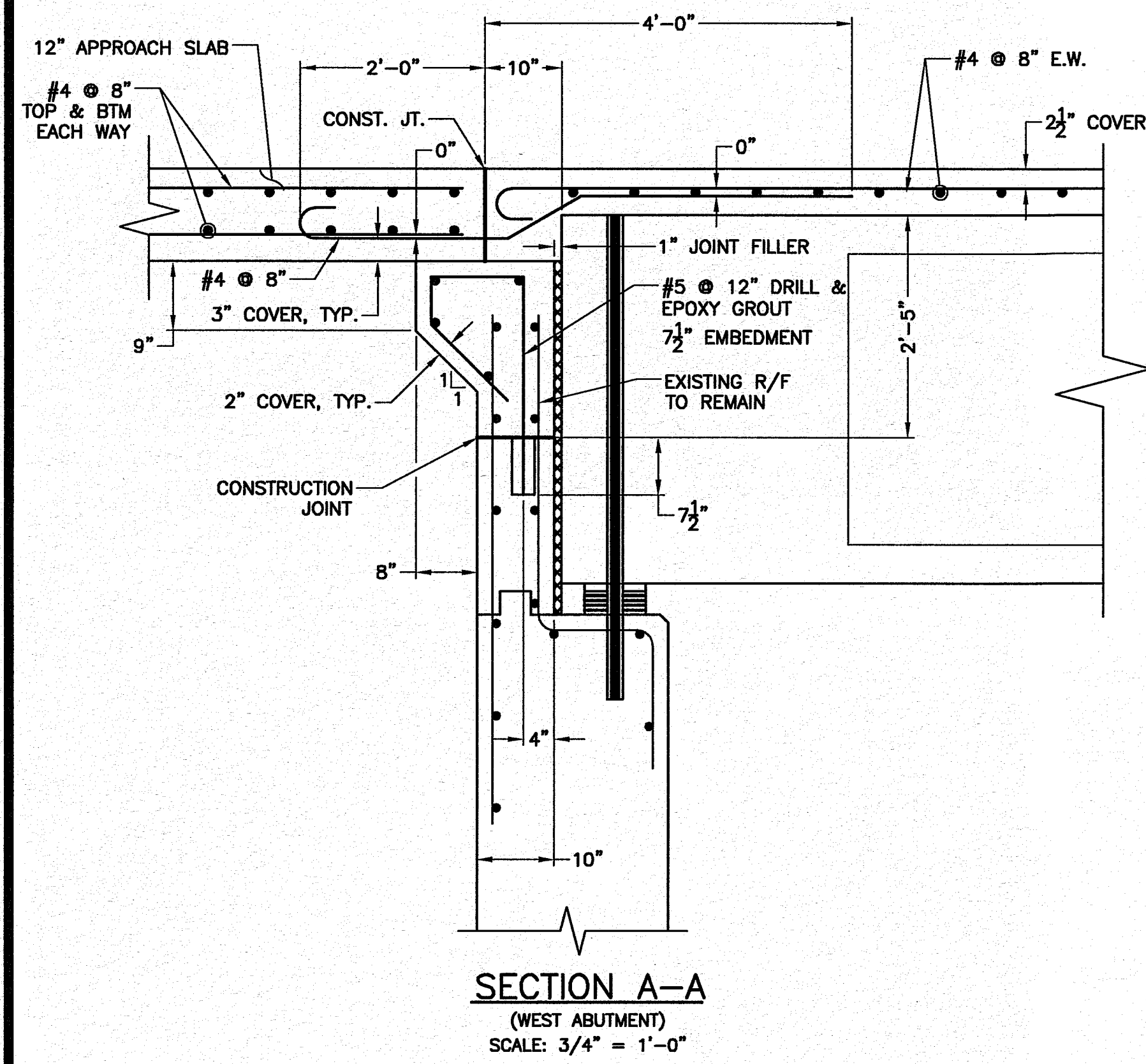
EXISTING SECTION AND DETAILS
 TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
 INTERSECTION OF COUNTY ROAD 36 AND 21



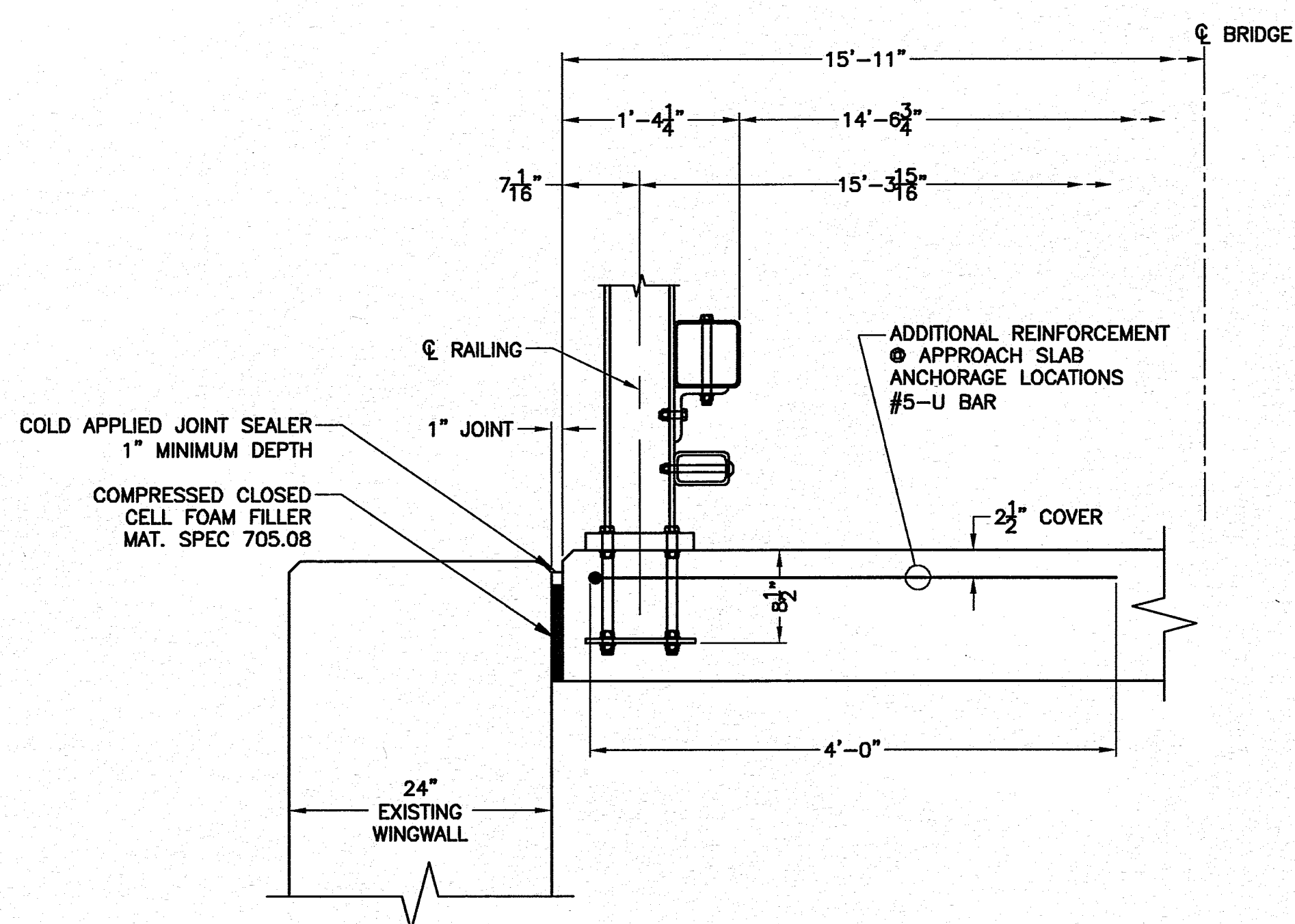
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NOTED	REVISIONS	DATE	DATE
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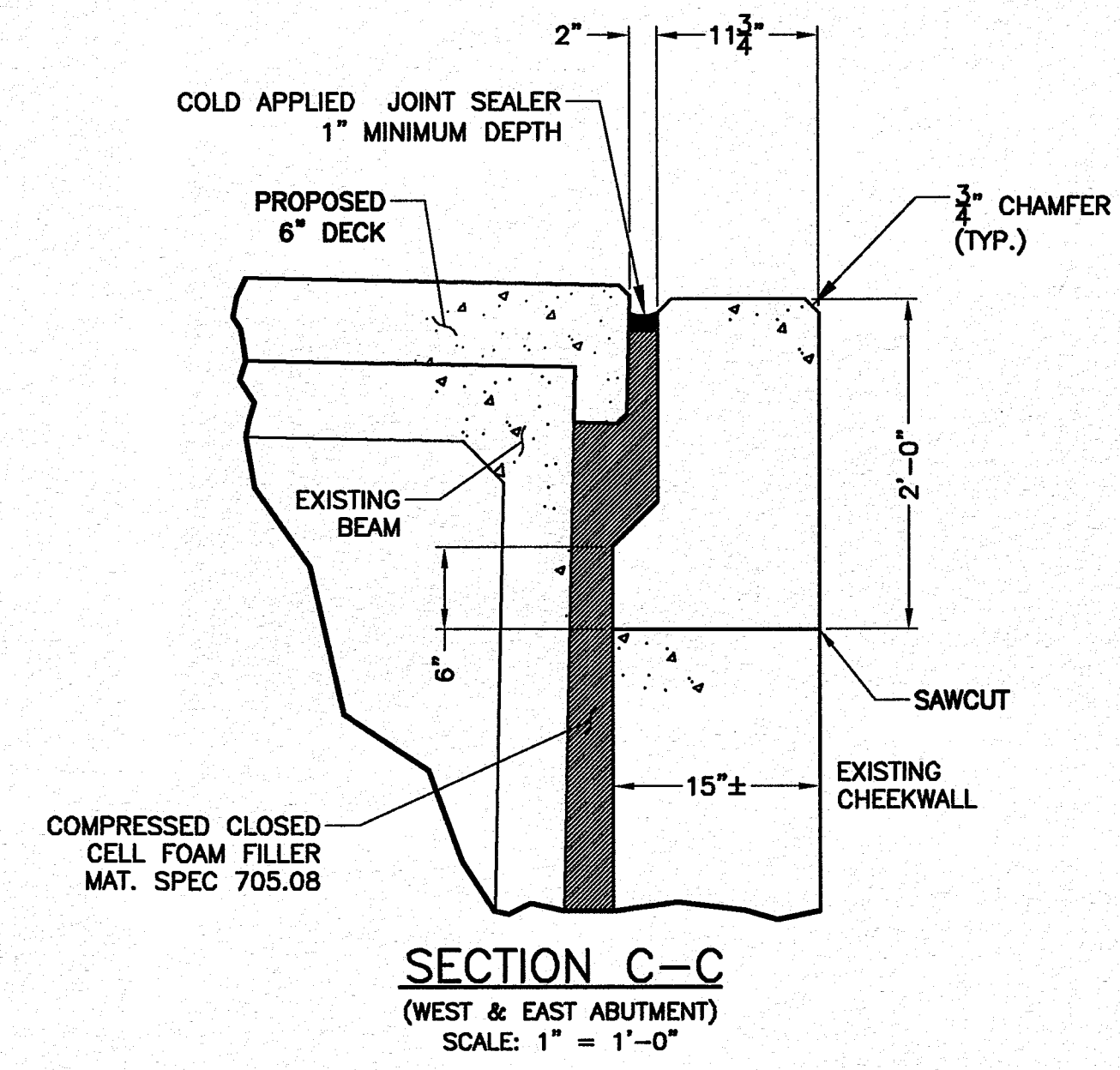
EXISTING BEAM DETAILS
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21



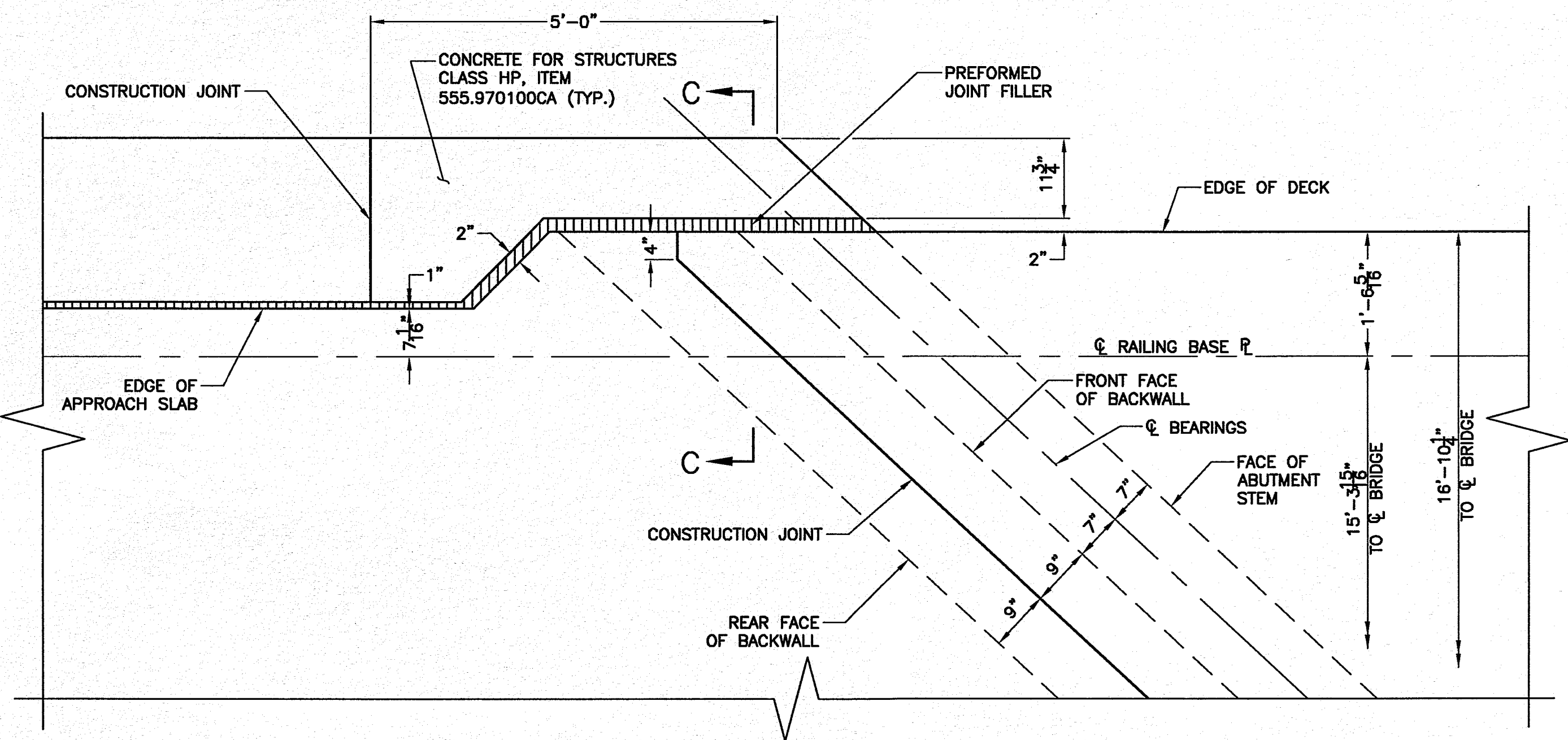
SECTION A-A
(WEST ABUTMENT)
SCALE: 3/4" = 1'-0"



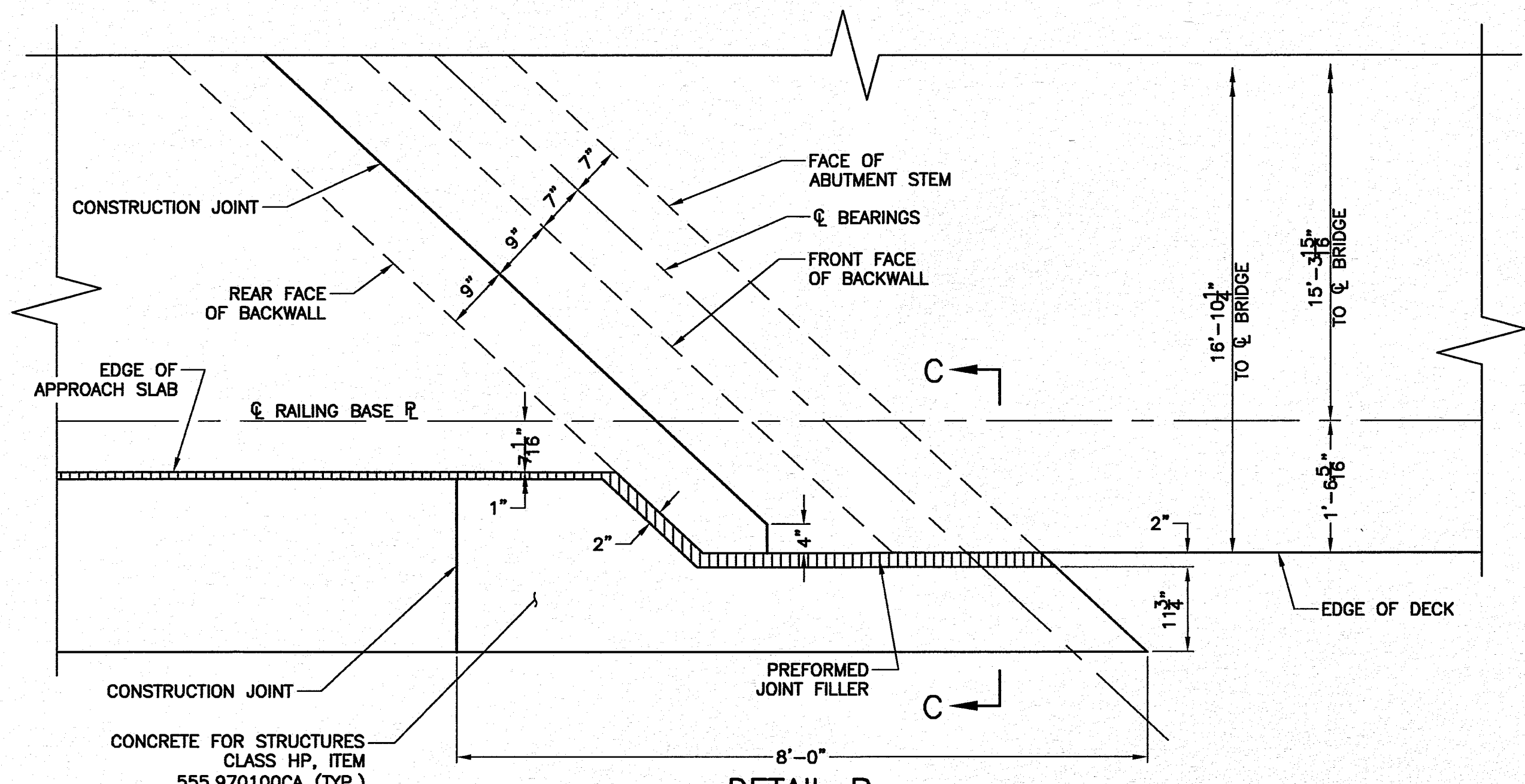
SECTION B-B
(WEST & EAST ABUTMENT)
SCALE: 1" = 1'-0"



SECTION C-C
(WEST & EAST ABUTMENT)
SCALE: 1" = 1'-0"



DETAIL A
(WEST ABUTMENT)
SCALE: 3/4" = 1'-0"



DETAIL B
(WEST ABUTMENT)
SCALE: 3/4" = 1'-0"

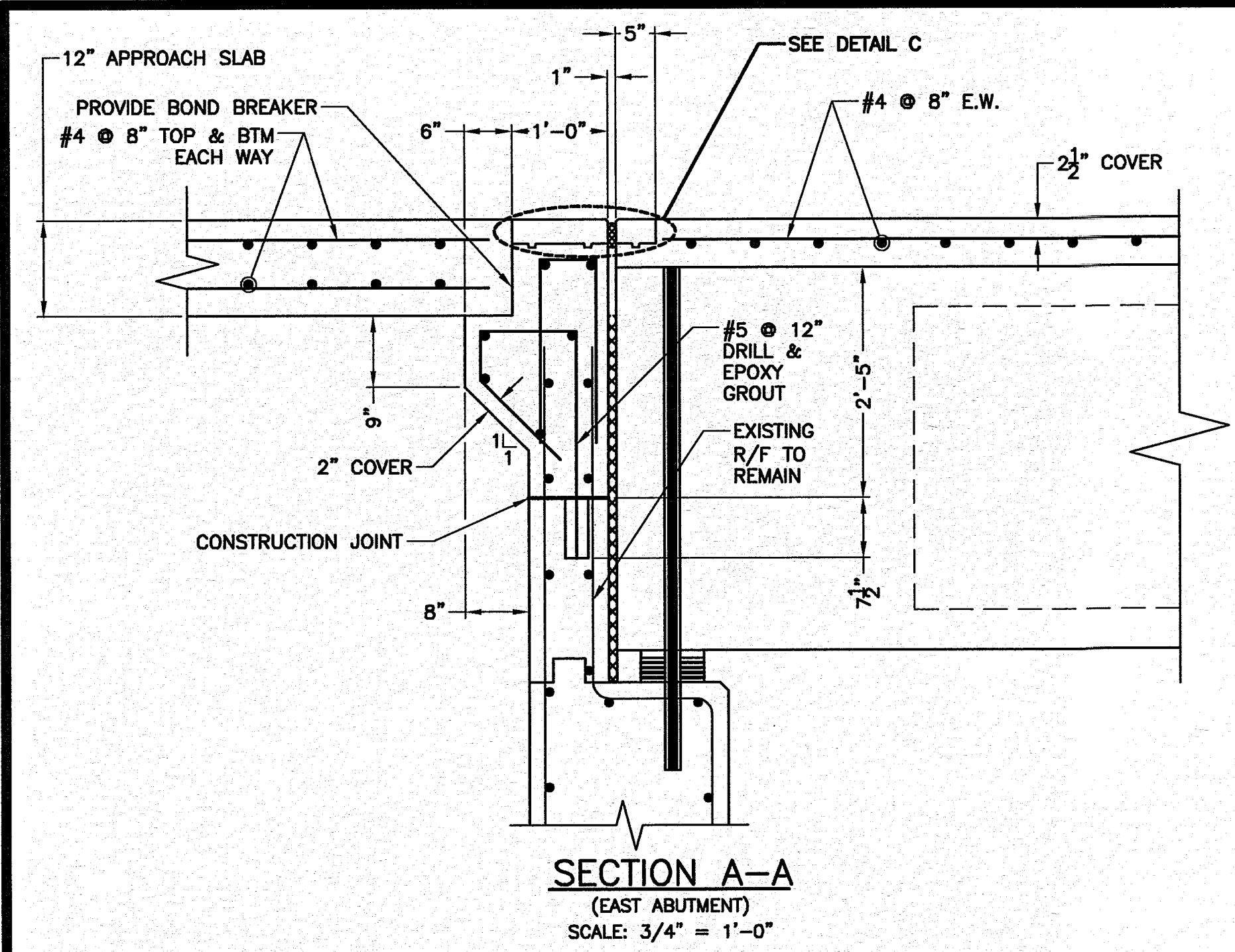
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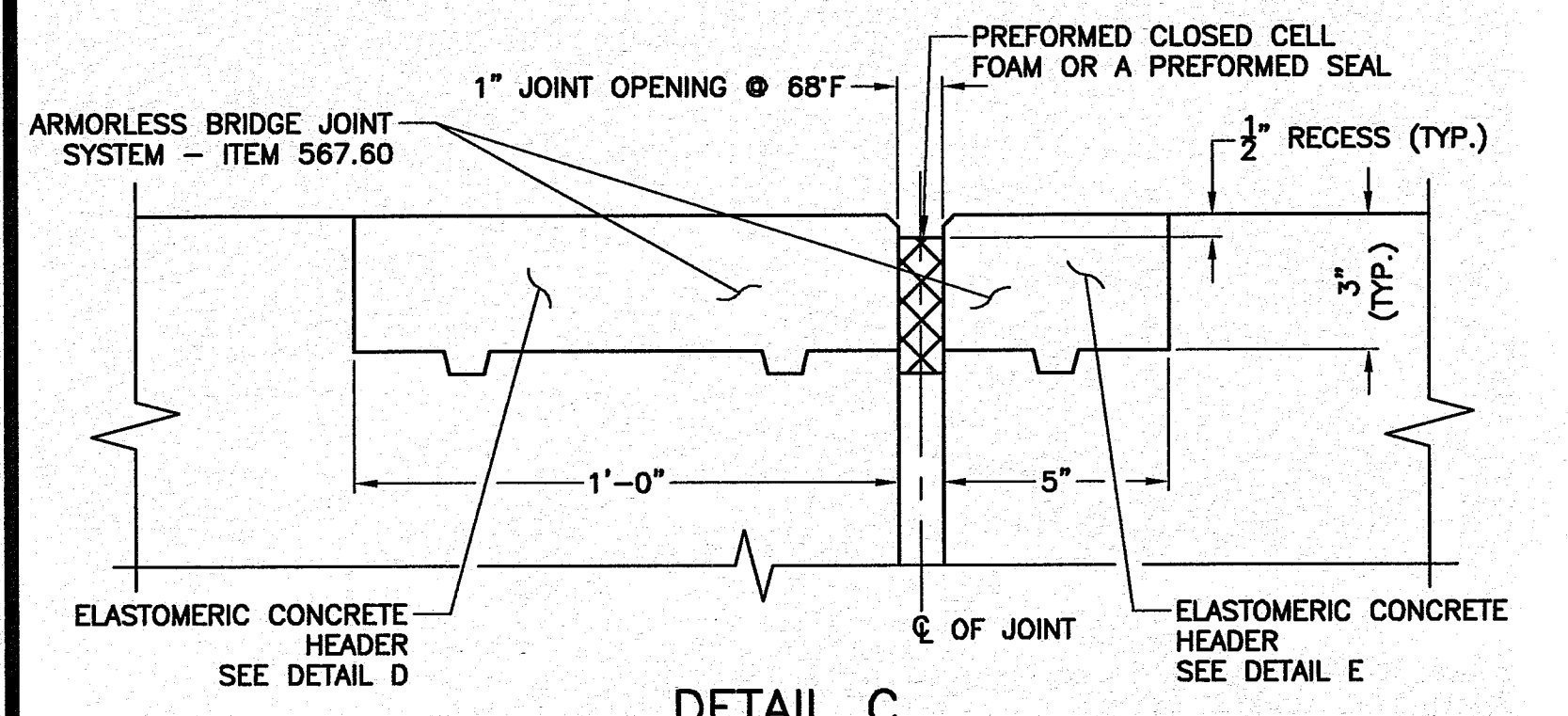
PROPOSED SECTIONS AND DETAILS 1 OF 2

TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21

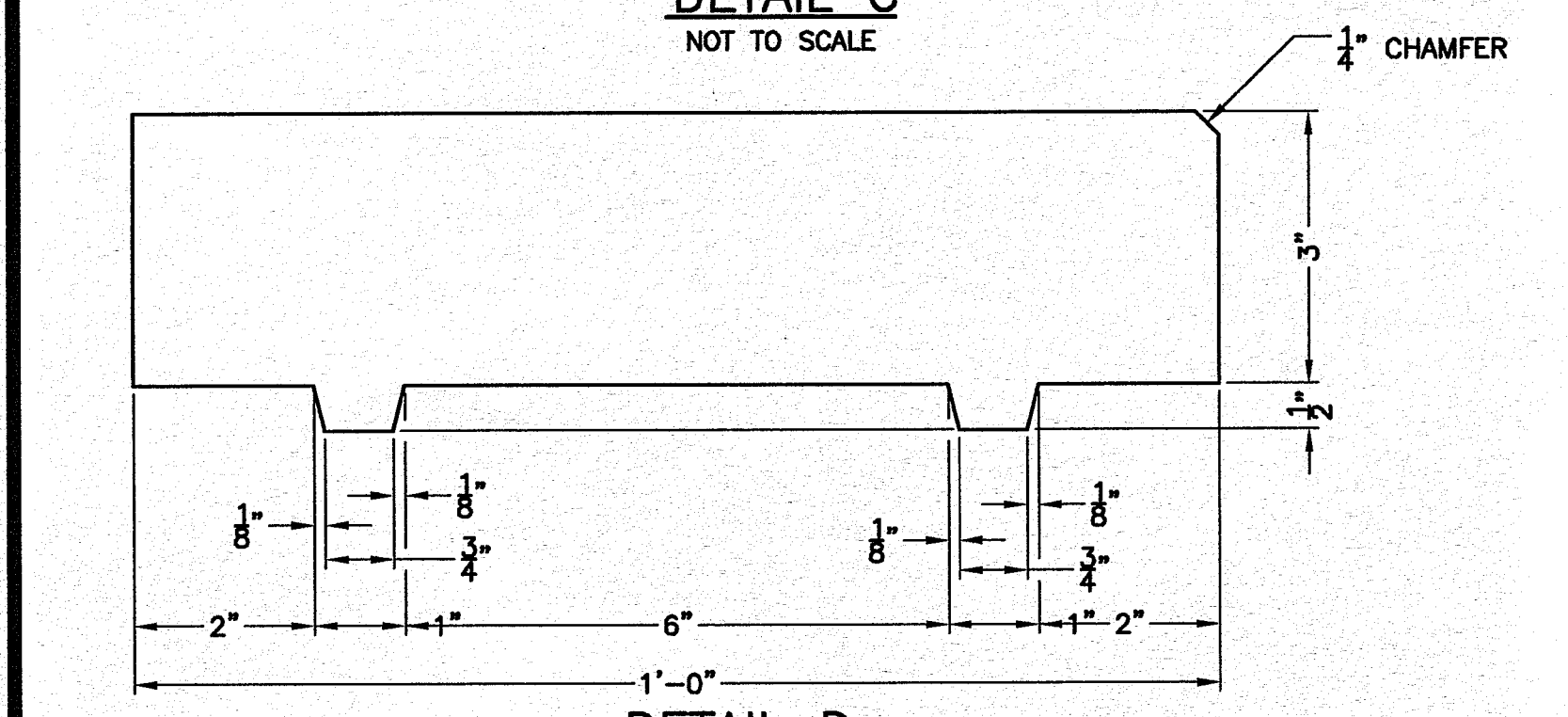
SHEET OF
19 25
PROJECT NO.
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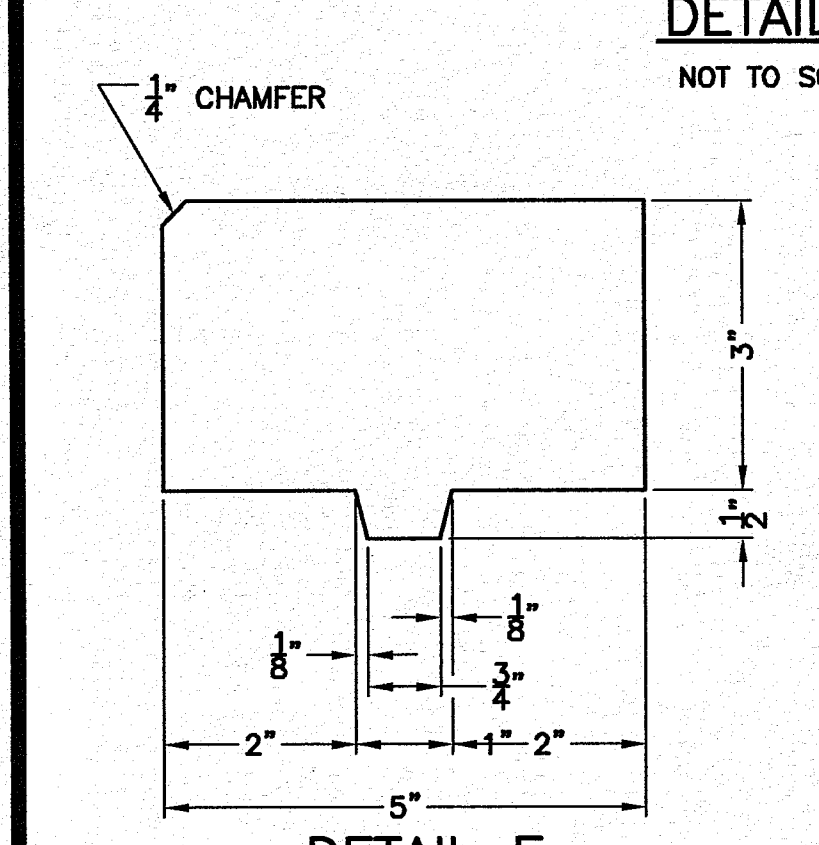
SECTION A-A
(EAST ABUTMENT)
SCALE: 3/4" = 1'-0"



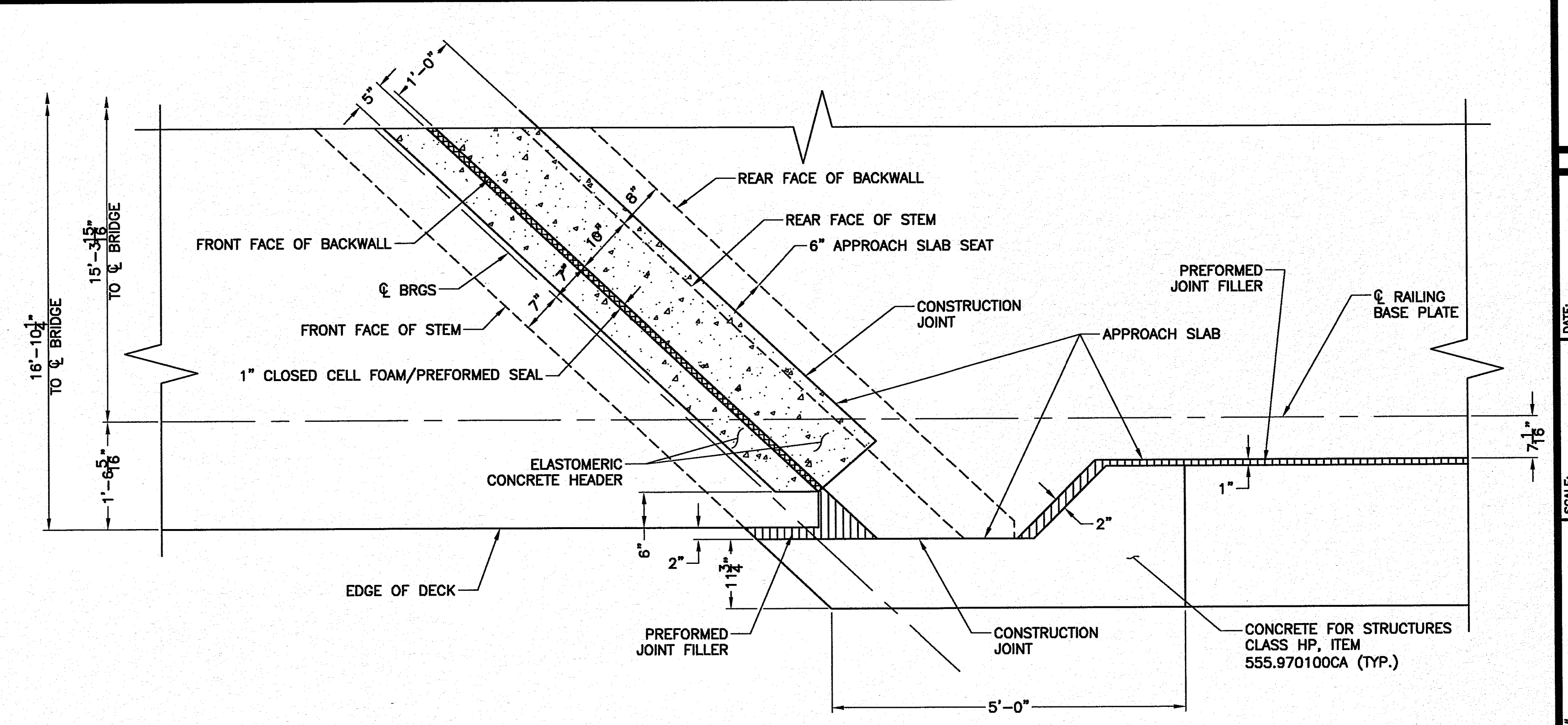
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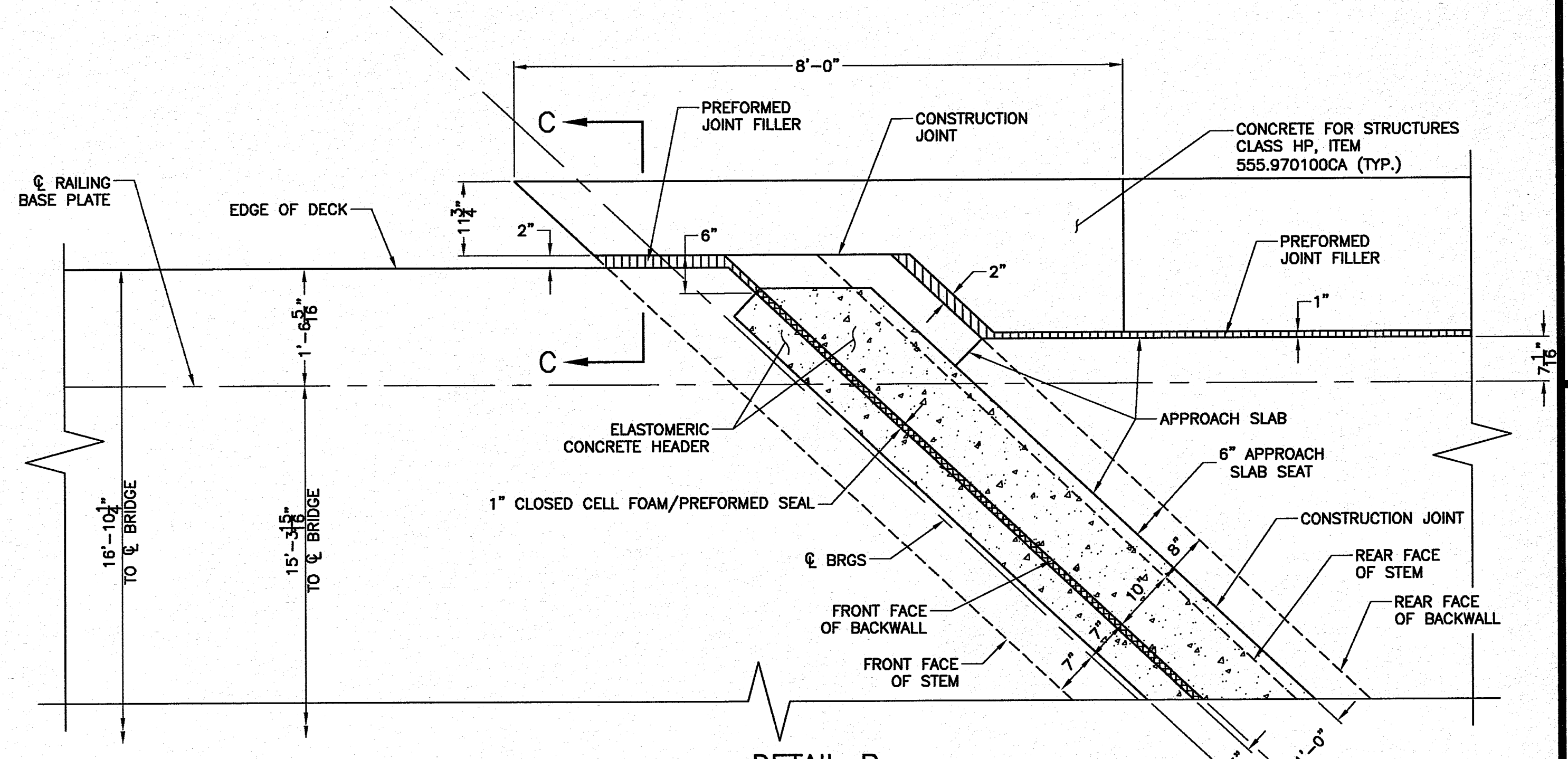
DETAIL D
NOT TO SCALE



DETAIL E
NOT TO SCALE



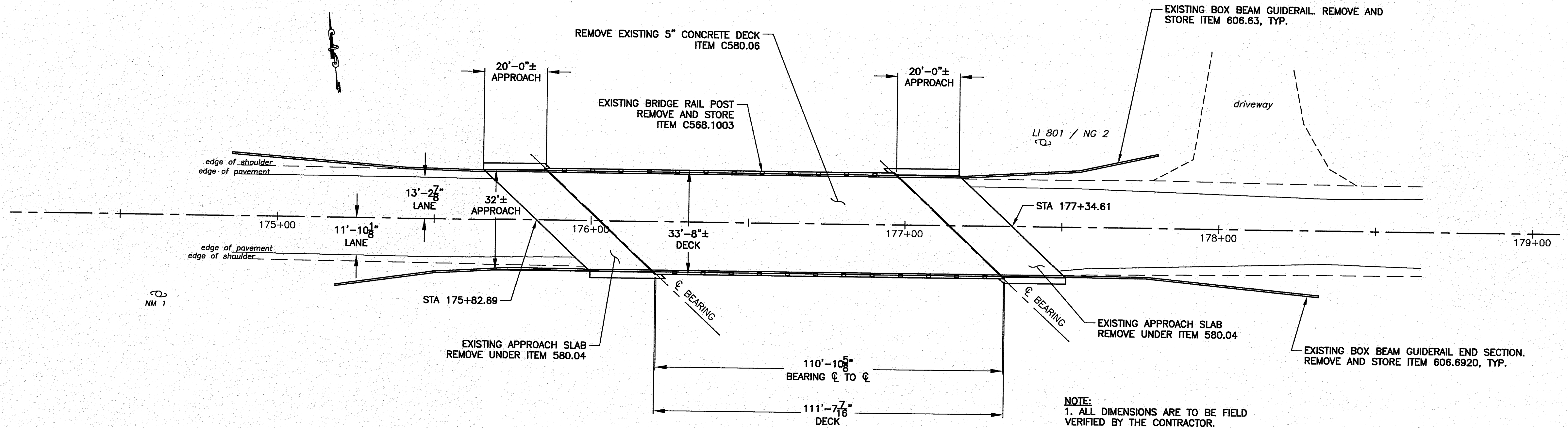
DETAIL A
(EAST ABUTMENT)
SCALE: 3/4" = 1'-0"



DETAIL B
(EAST ABUTMENT)
SCALE: 3/4" = 1'-0"

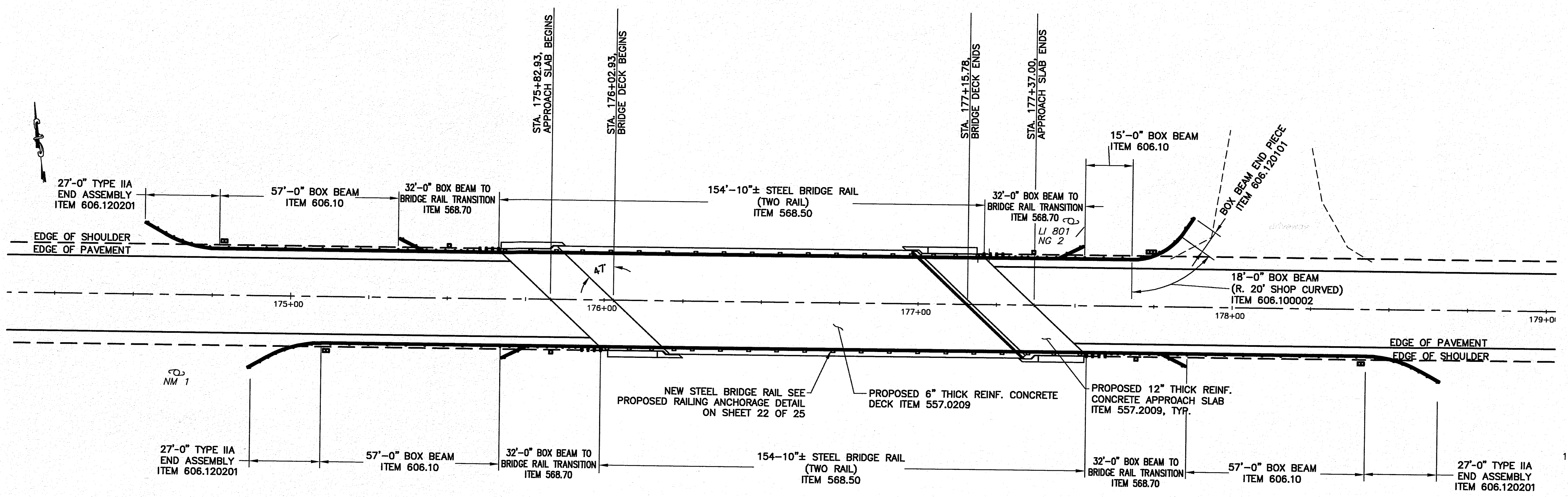
NOTES:
CONTRACTOR SHALL DETERMINE AND SUPPLY CLOSED CELL FOAM/PREFORMED SEAL DIMENSIONS BASED UPON JOINT OPENING SIZE AND EXPECTED MOVEMENT.
CONTRACTOR MAY HAVE TO MODIFY SUPERSTRUCTURE SLAB TO ACCOMMODATE ARMORLESS BRIDGE JOINT SYSTEMS SELECTED.
CONCRETE HEADERS SHALL NOT OVERHANG THE CONCRETE SLAB UNDER ANY CIRCUMSTANCES.
DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

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PROPOSED SECTIONS AND DETAILS 2 OF 2		TOWN OF FREEDOM COUNTY ROAD 36 AND COUNTY ROAD 21 FREEDOM BRIDGE 04 INTERSECTION OF COUNTY ROAD 36 AND 21	
SHEET OF		20 25	
PROJECT NO.		H.5198.25093	



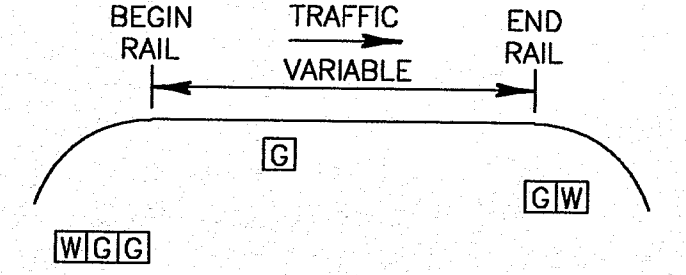
EXISTING BRIDGE PLAN
SCALE: 1" = 20'-0"

NOTE:
1. ALL DIMENSIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.



PROPOSED BRIDGE PLAN
SCALE: 1" = 20'-0"

NOTES:
1.) FINAL PLACEMENT OF DELINEATORS SHALL CONFORM TO N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) FIGURES 295-1 AND/OR A.O.B.E. (SEE SNOWPLOW MARKER DETAIL).



TYPICAL SNOWPLOW MARKER DETAIL
(BY OTHERS)

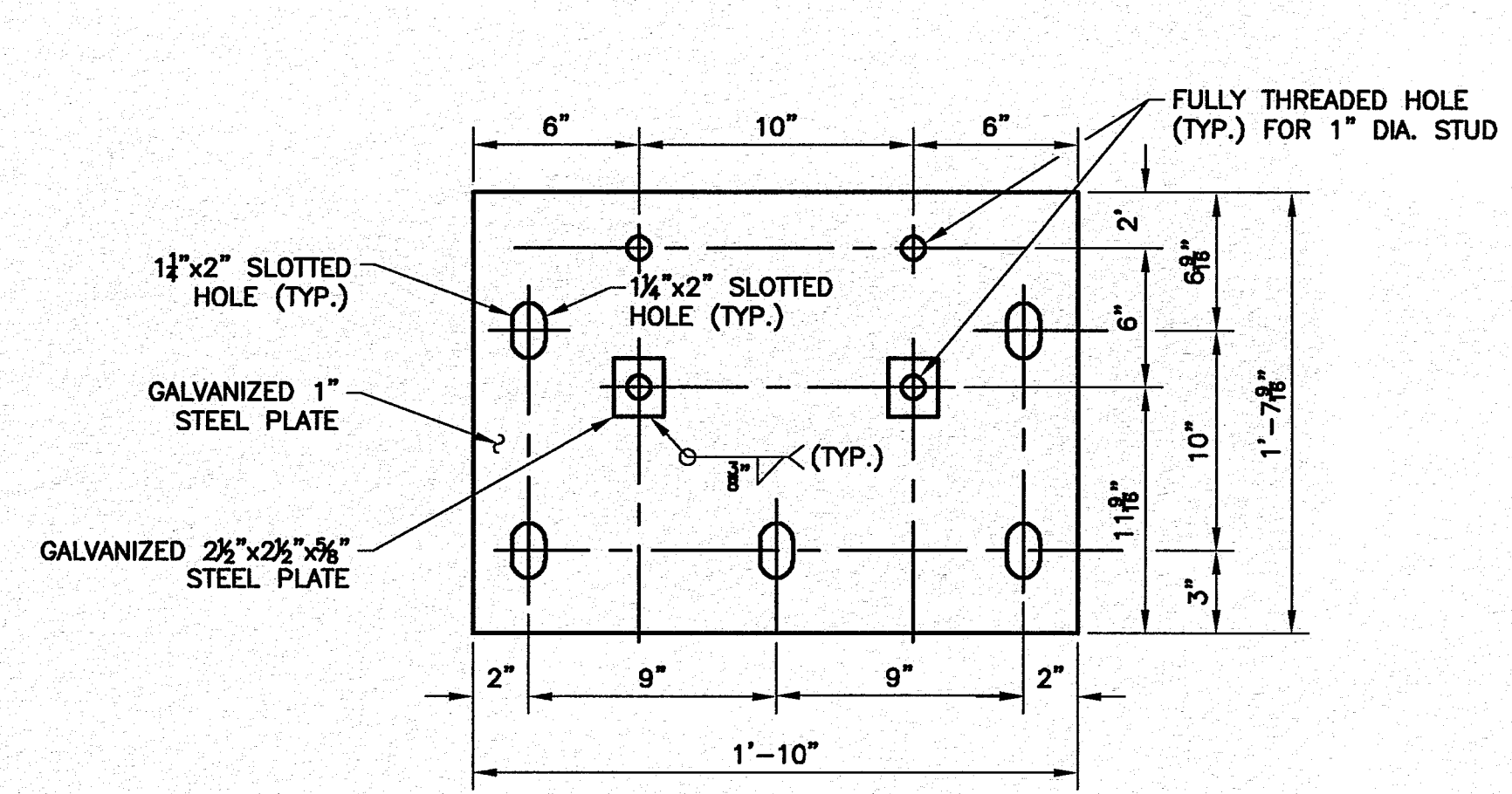
NOTE:
BASELINE/CONSTRUCTION LINE STATIONING IS ESTABLISHED FOR CONSTRUCTION PURPOSES ONLY, AND MAY OR MAY NOT BE COINCIDENTAL WITH GREAT LOT LINES, INDIVIDUAL PROPERTY LINES, OR PREVIOUSLY ESTABLISHED STATIONING.

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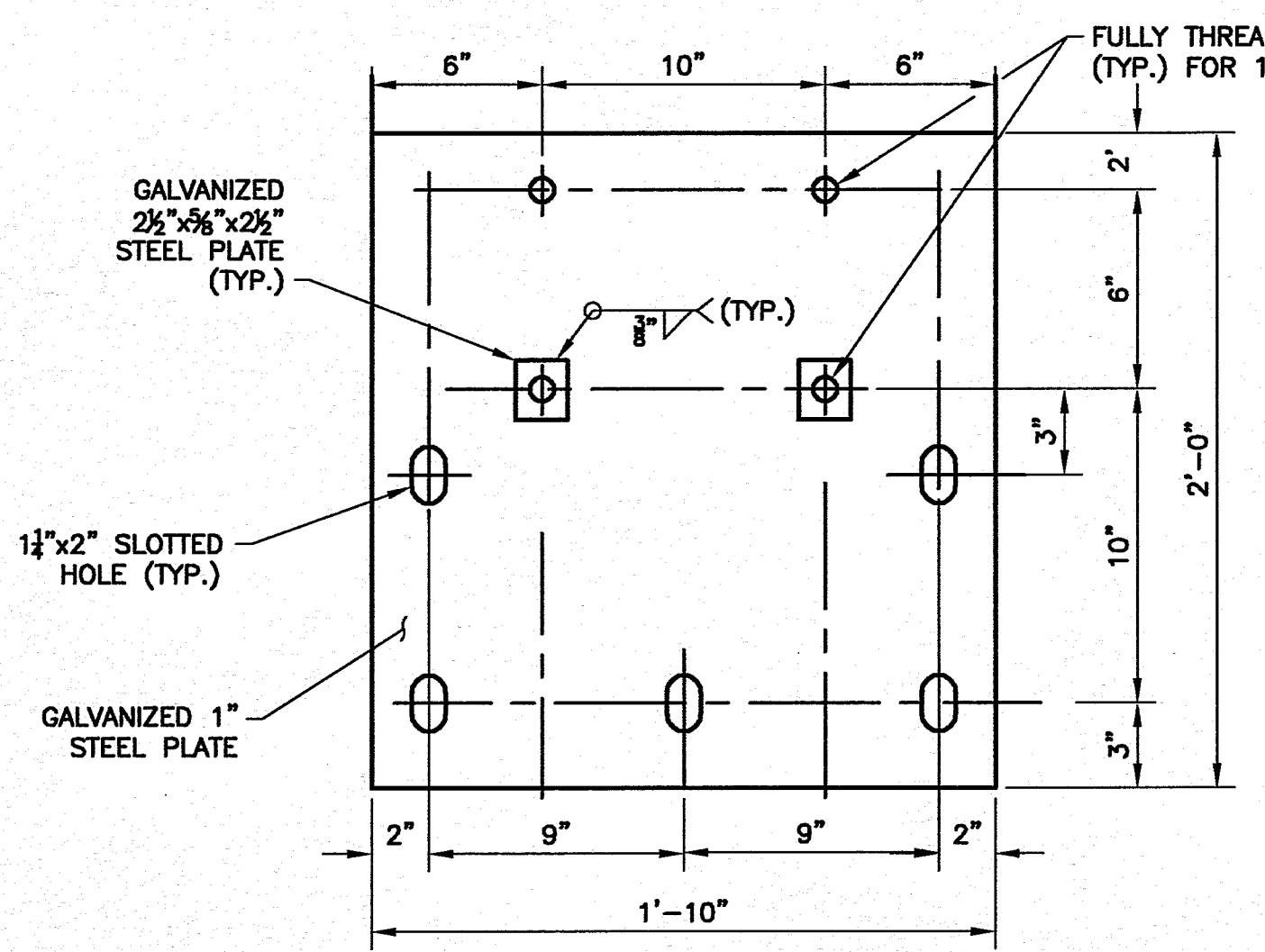
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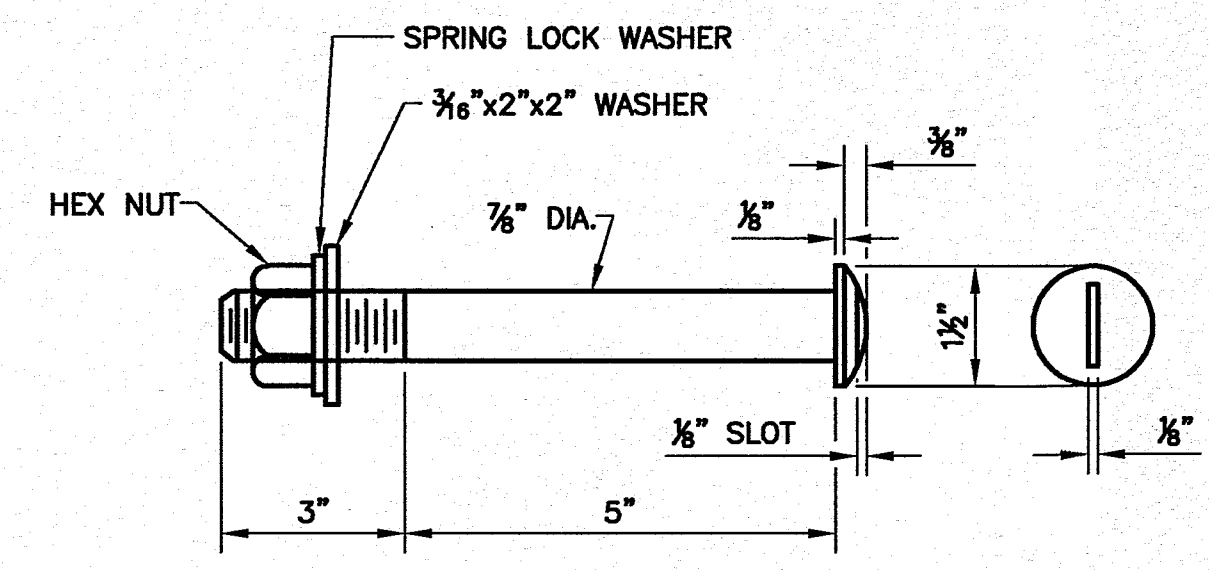
EXISTING & PROPOSED GUIDE RAIL PLAN
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21



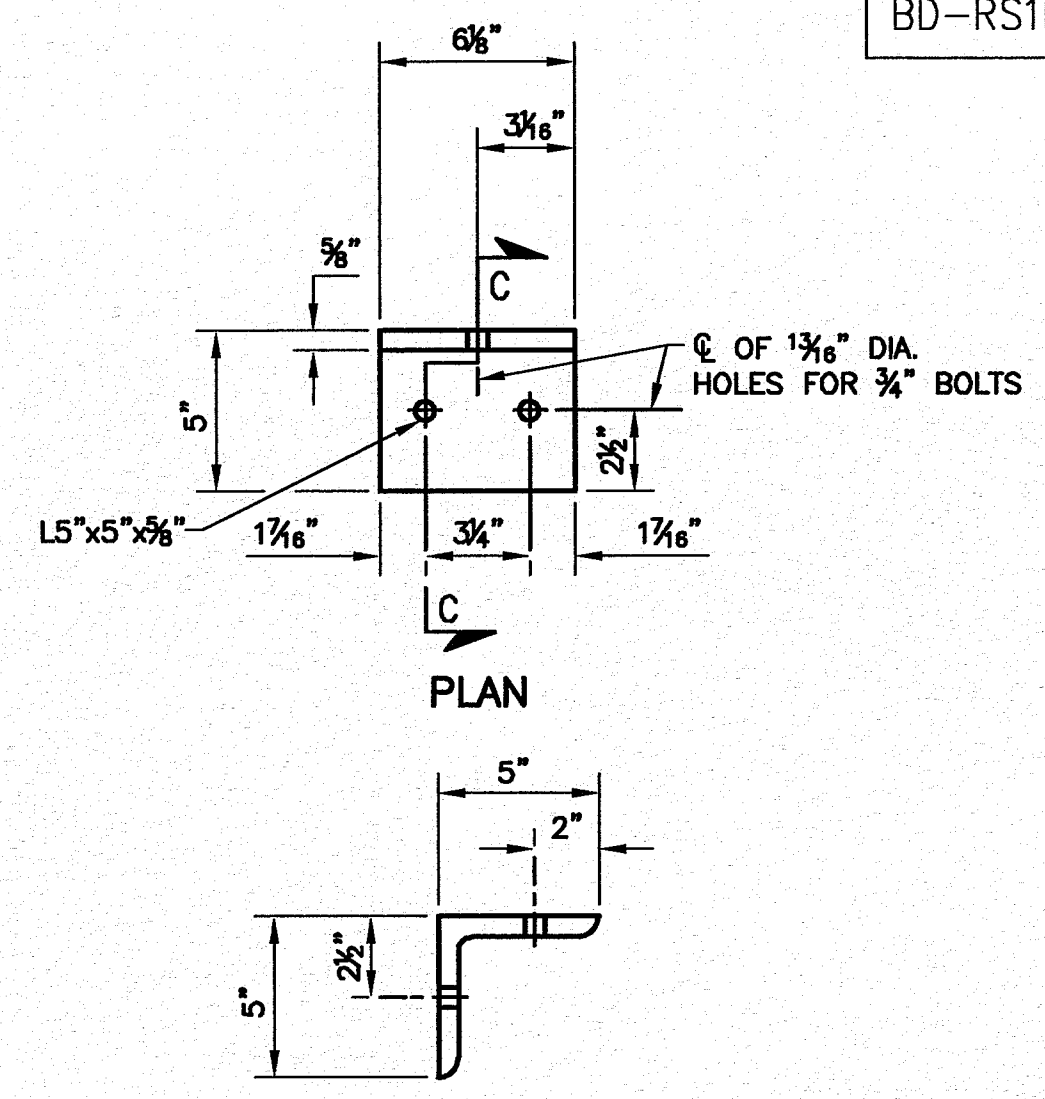
DECK ANCHOR PLATE
22 LOCATIONS



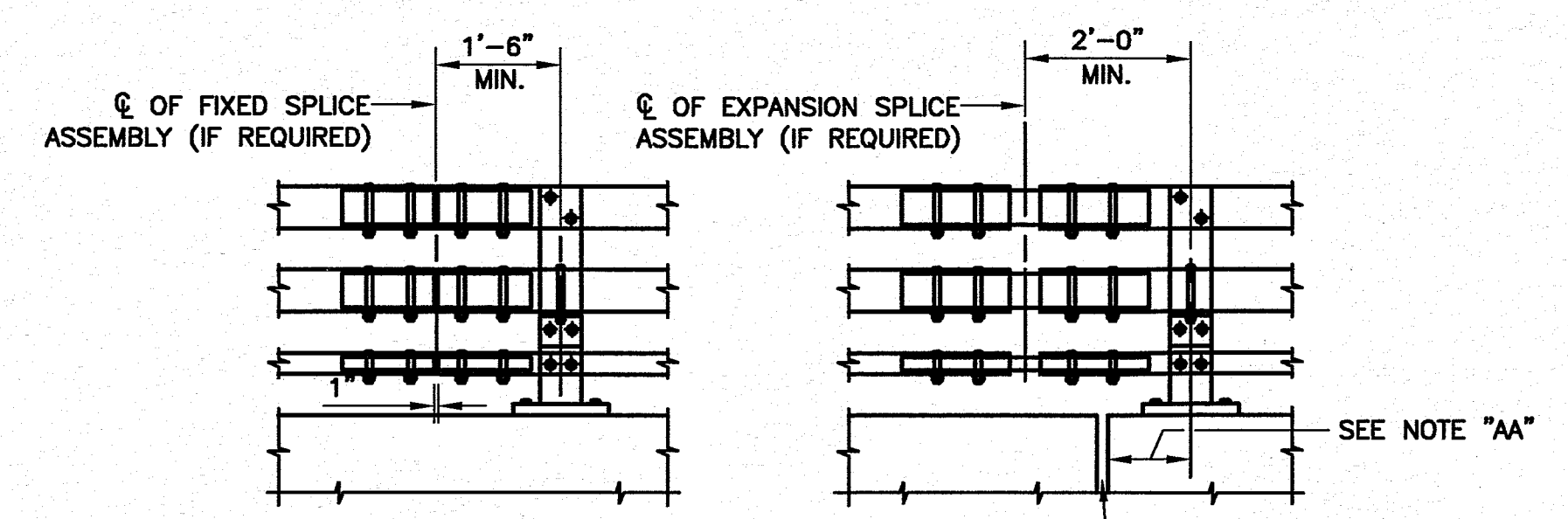
SPECIAL DECK ANCHOR PLATE
2 LOCATIONS



ROUND HEAD BOLT



SECTION C-C
RAILING ANGLE DETAILS

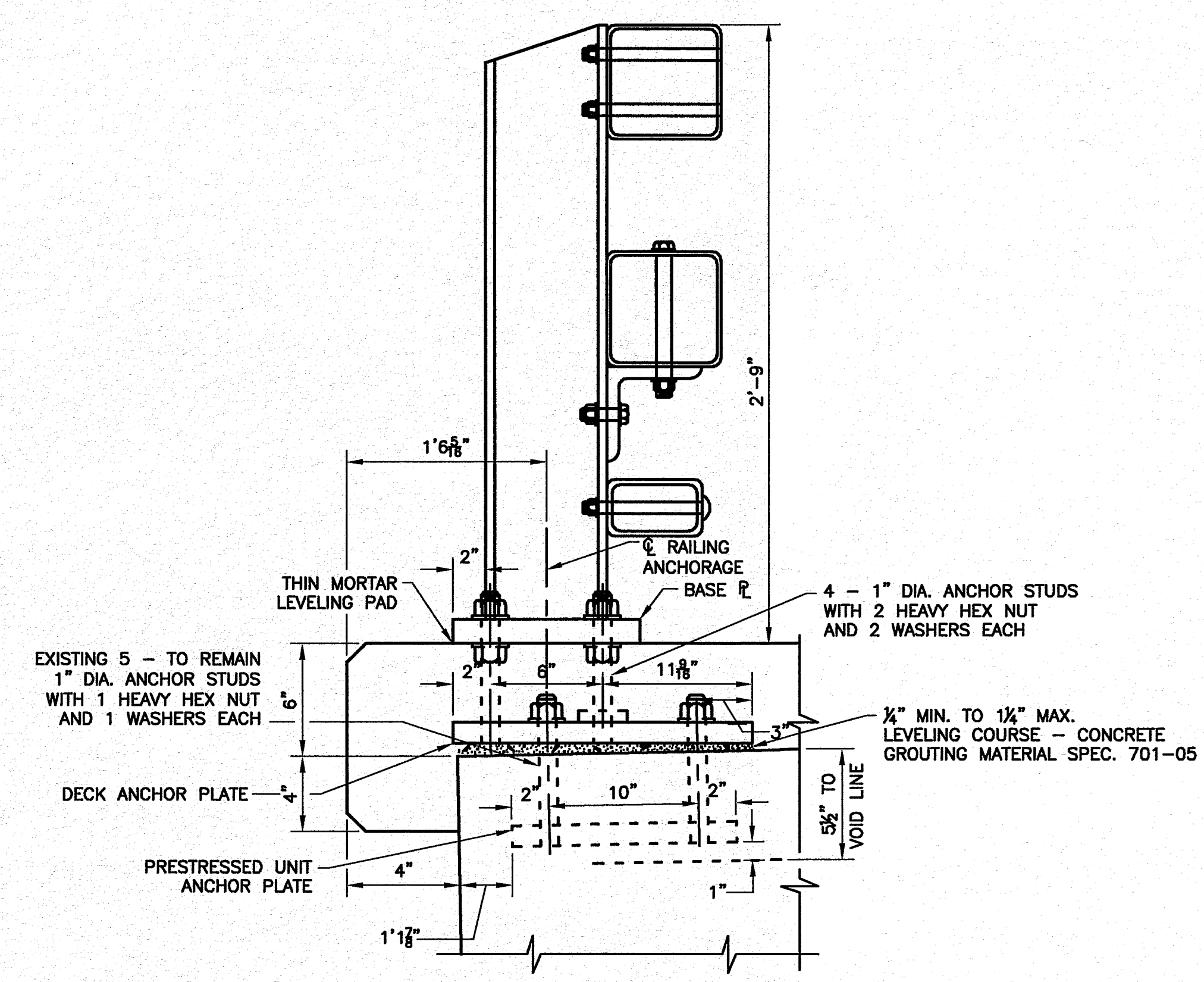


ELEVATION
STEEL BRIDGE RAILING SPLICE DETAILS
(THREE-RAIL - CURBLESS)

A RAILING EXPANSION SPLICE IS REQUIRED IN ANY POST SPACING THAT CONTAINS A SUPERSTRUCTURE EXPANSION JOINT.

NOTES:

- ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/8".
- BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 ft.-lb.).

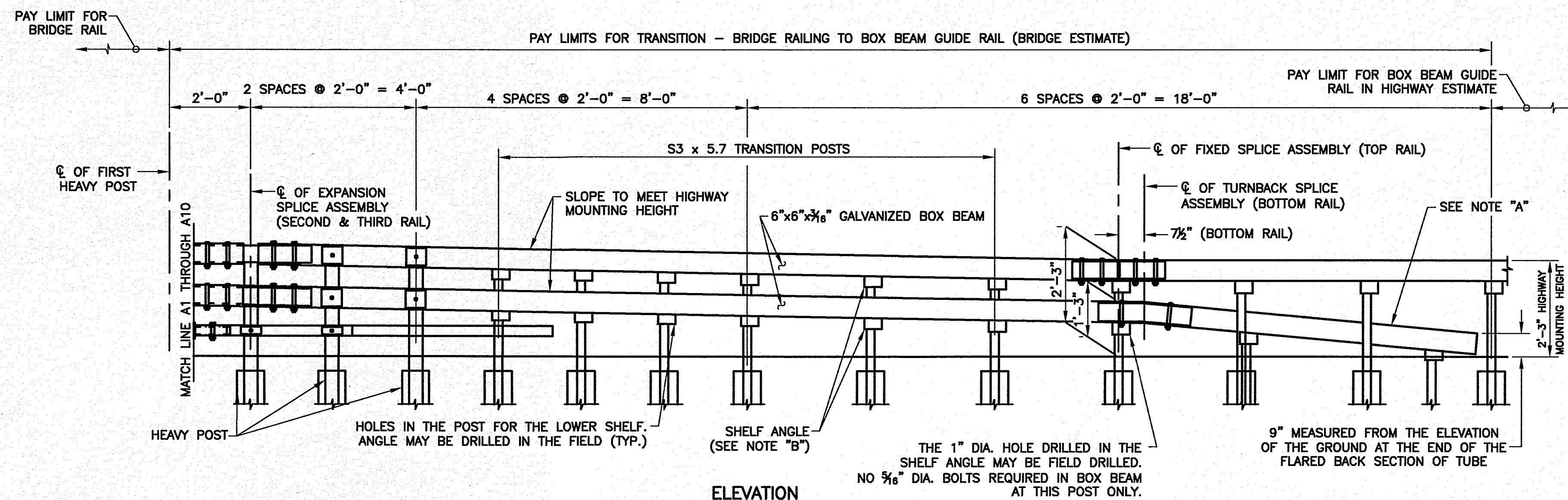
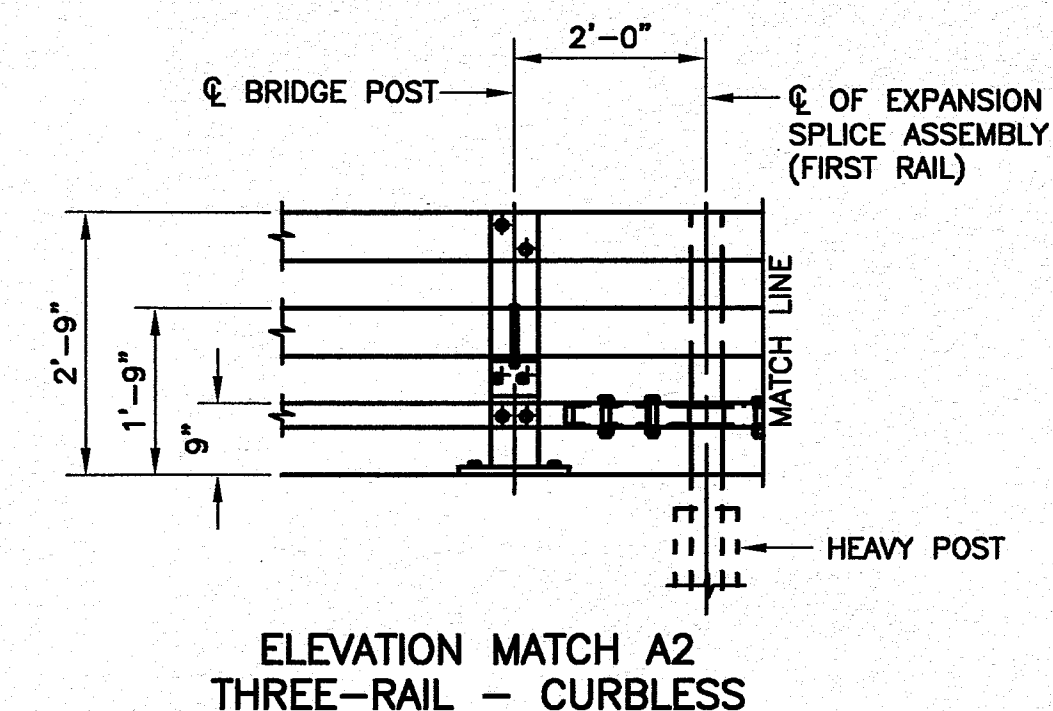
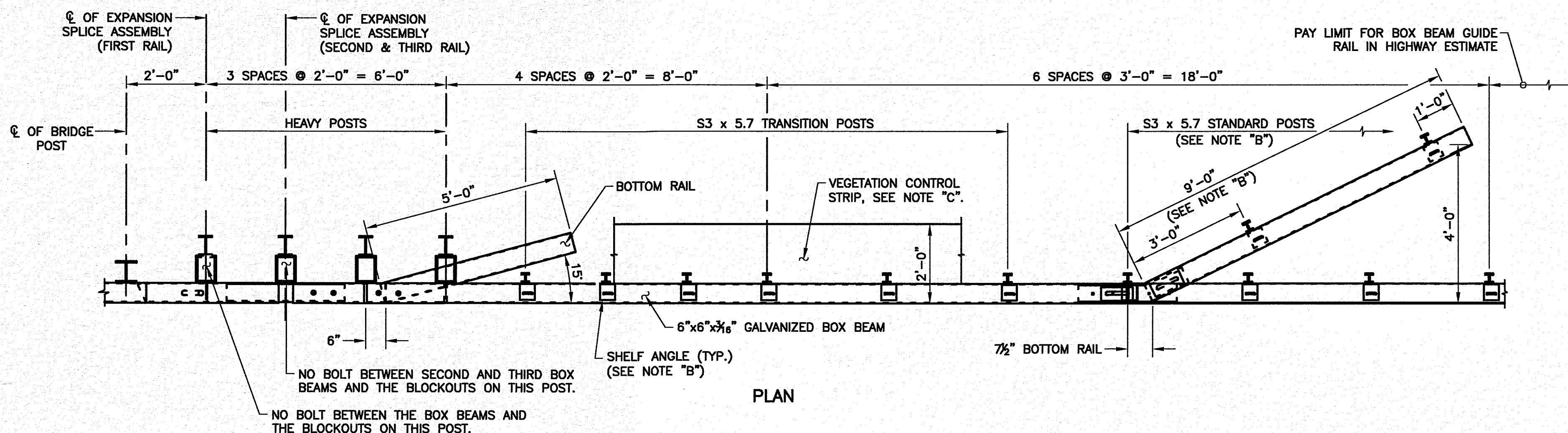


STEEL BRIDGE RAILING ANCHORAGE
FOR PRESTRESSED CONCRETE BRIDGE

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BRIDGE RAILING SHEET 1 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21



NOTES:

NOTE "A": THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.

NOTE "B": SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

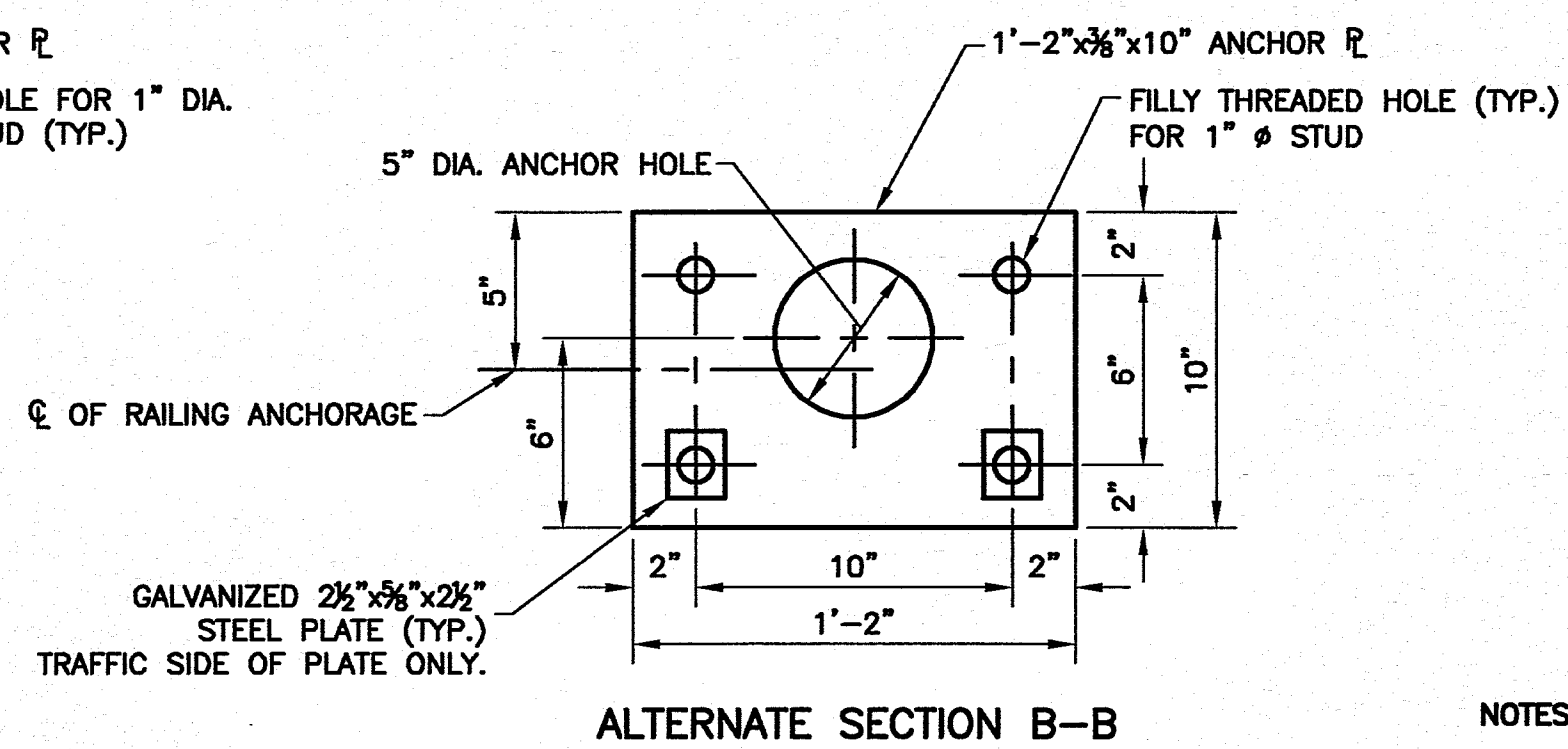
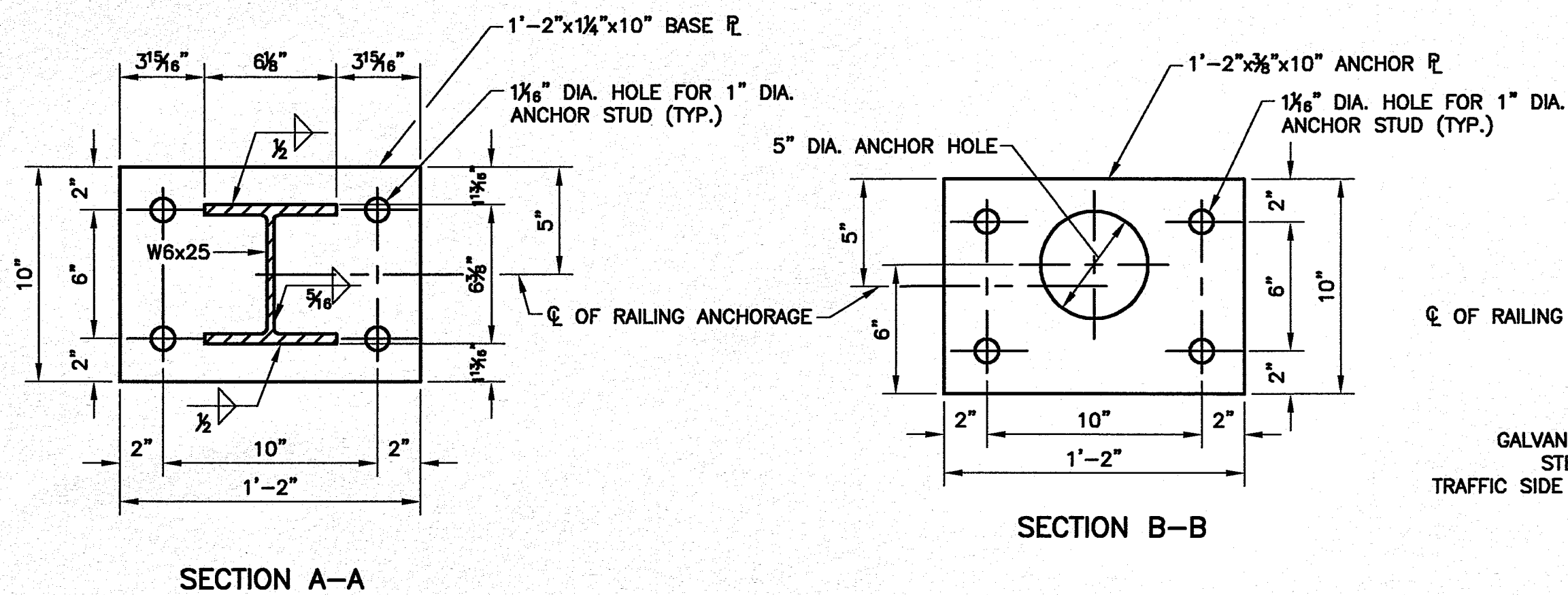
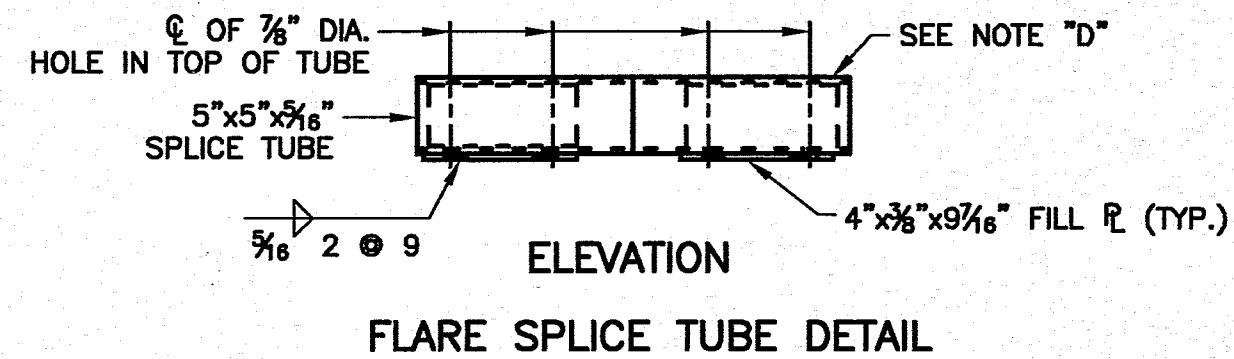
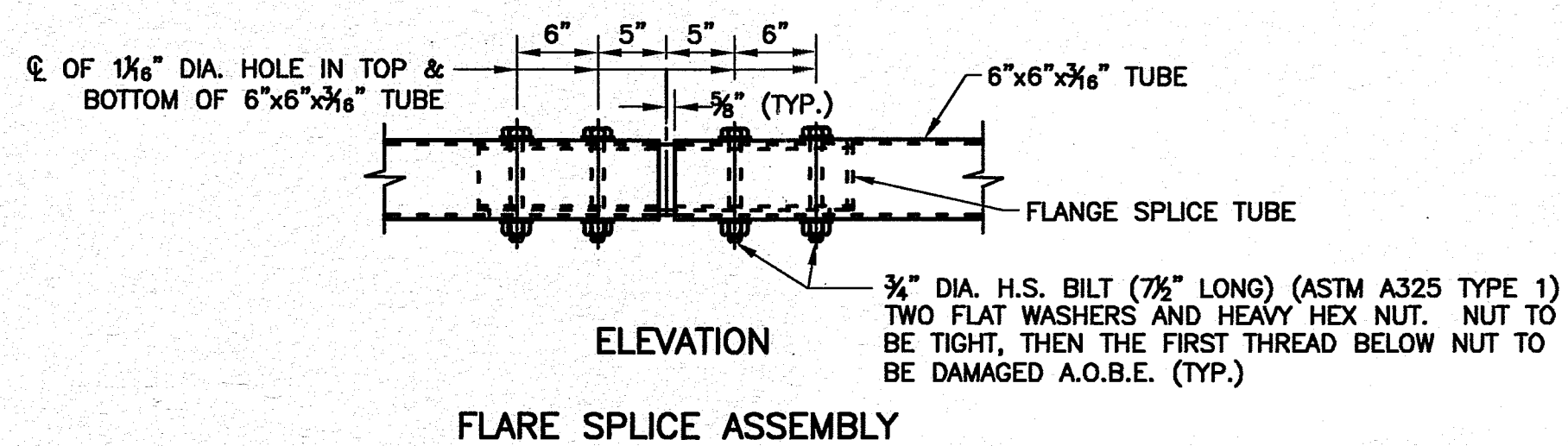
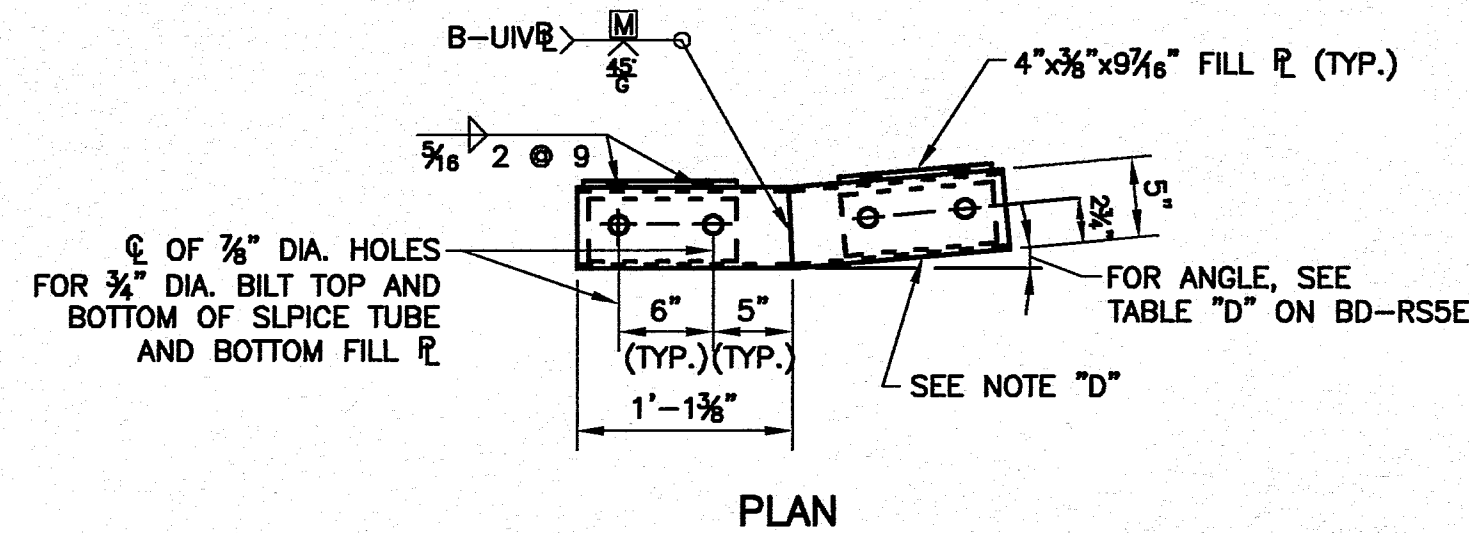
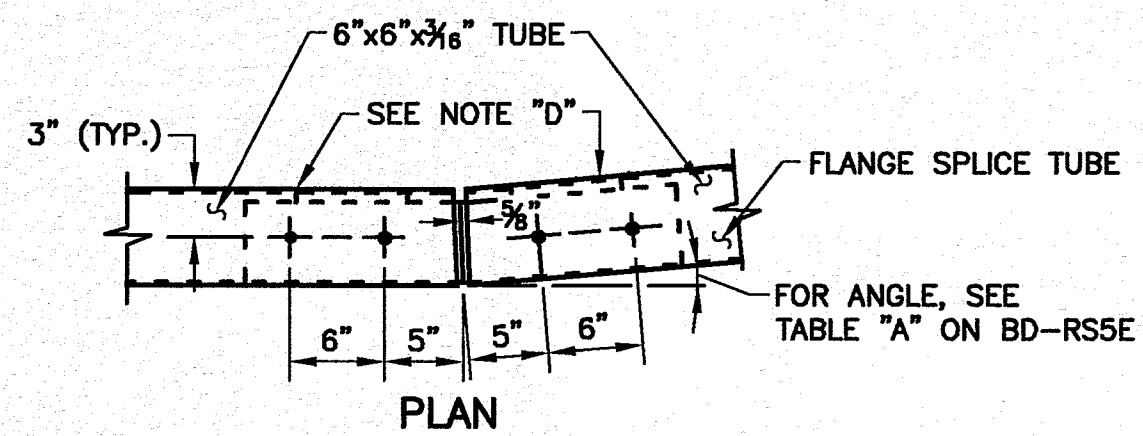
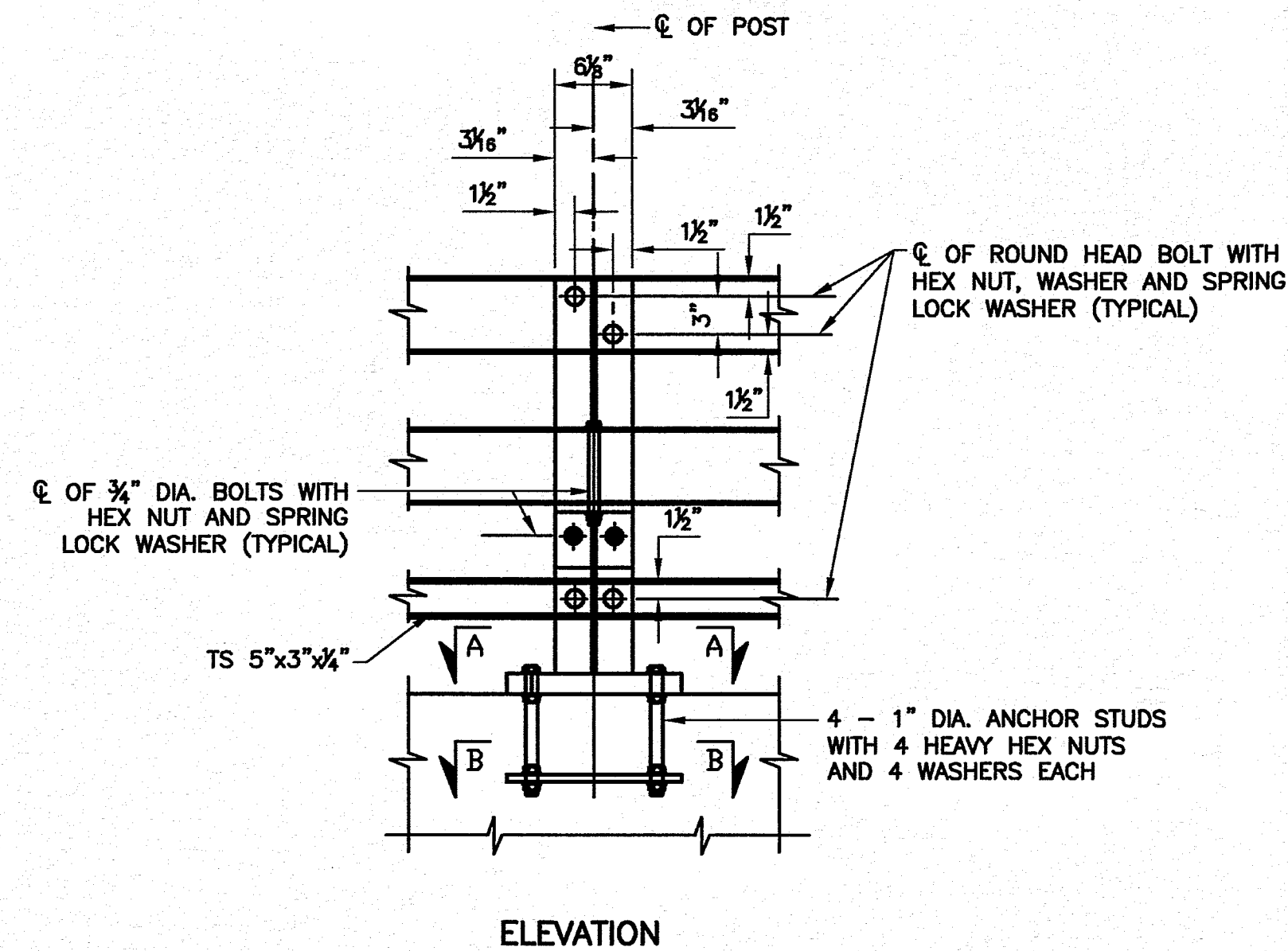
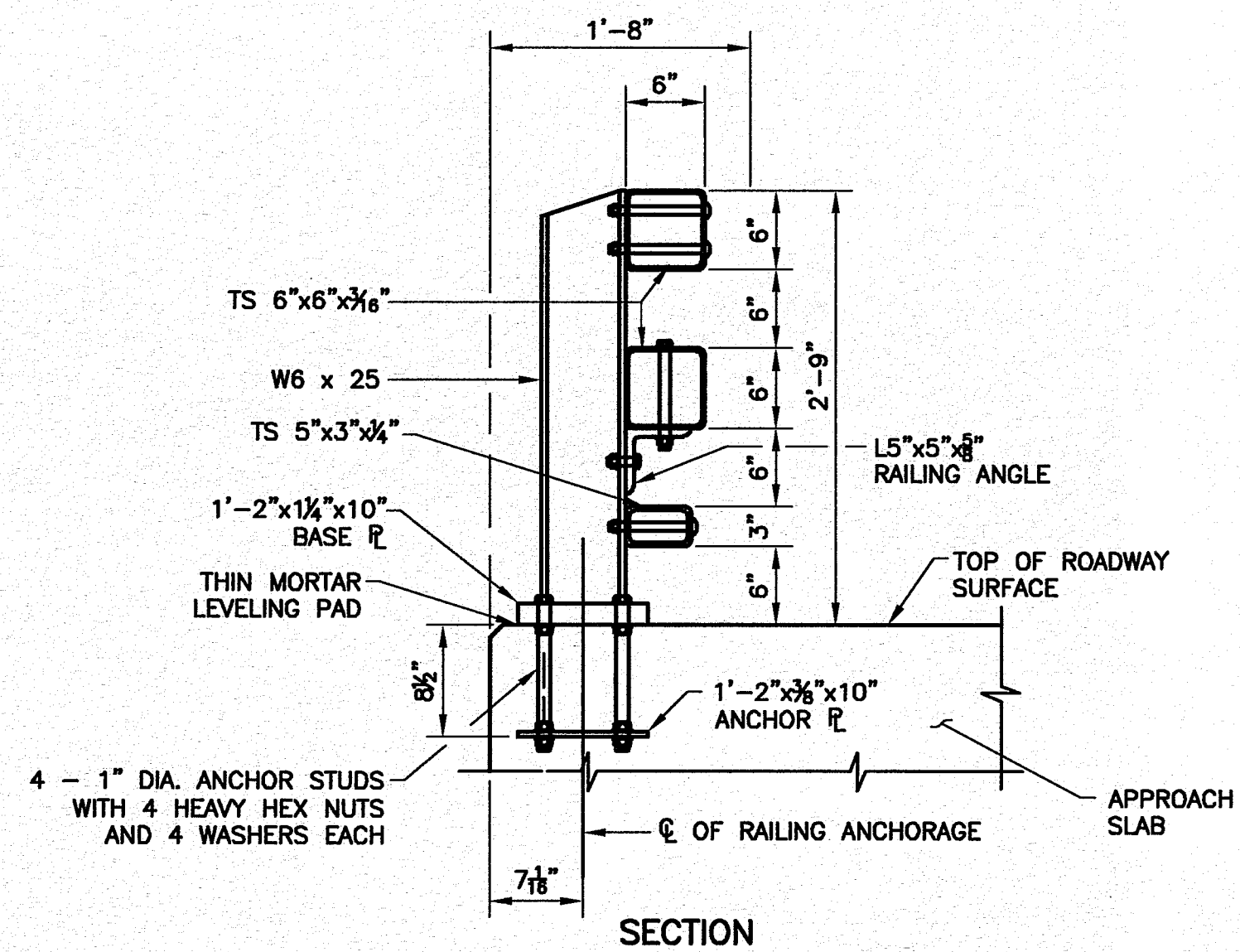
NOTE "C": PAVE THE VEGETATION CONTROL STRIP WITH THE SAME MATERIAL AS IN THE PAVED SHOULDER. PAYMENT WILL BE MADE UNDER THE PAVED SHOULDER ITEM.

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BRIDGE RAILING SHEET 2 OF 4

TOWN OF FREEDOM
COUNTY ROAD 86 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 86 AND 21



NOTES:

NOTE "D"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

NOTES:

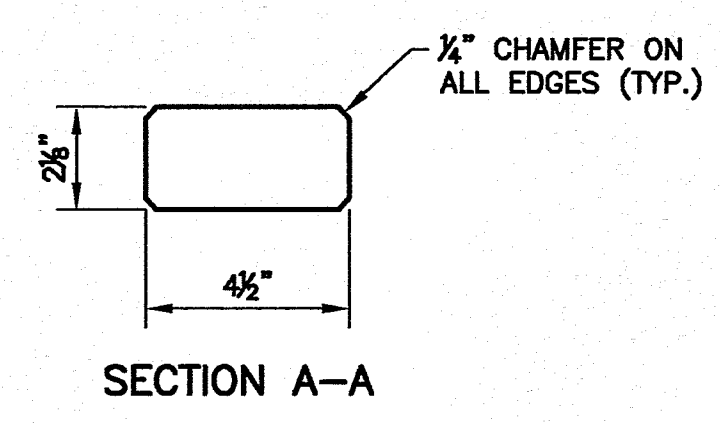
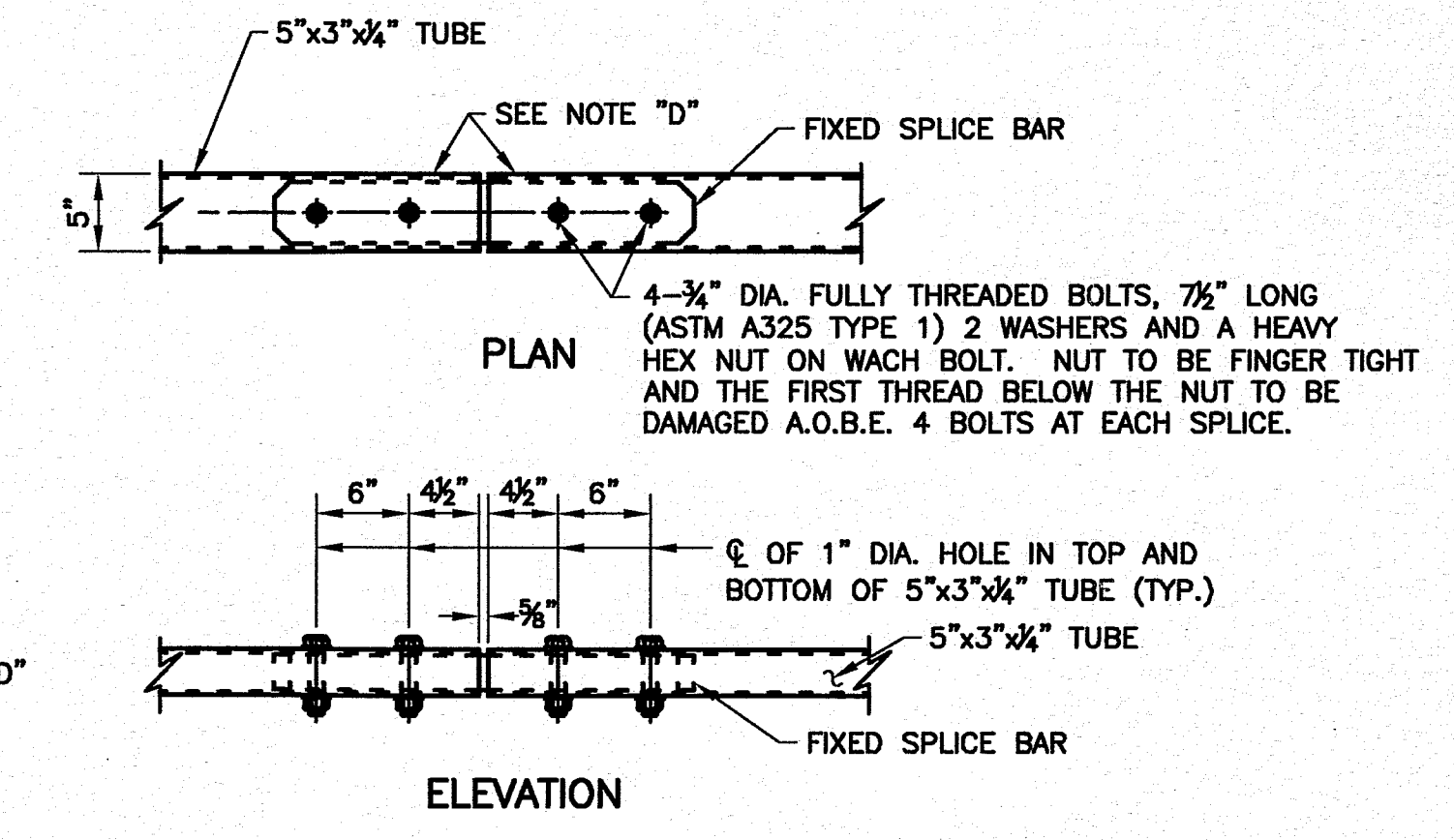
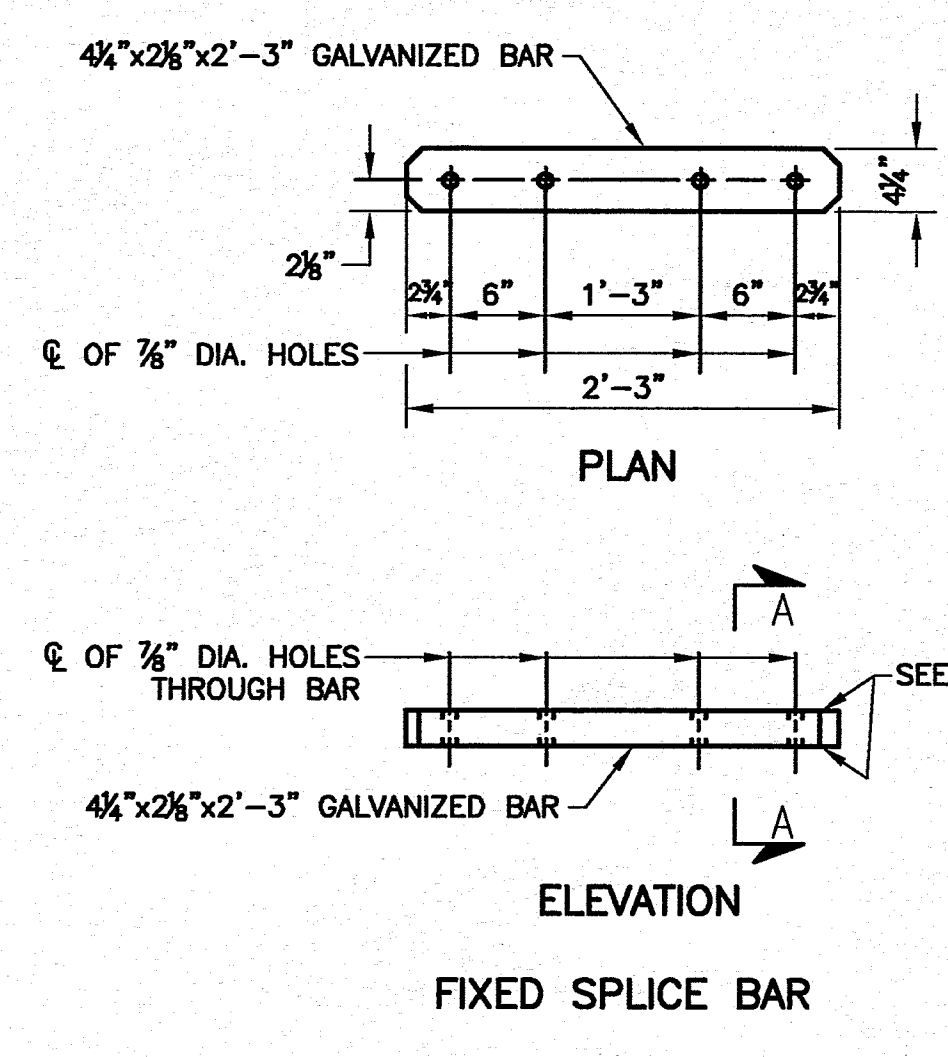
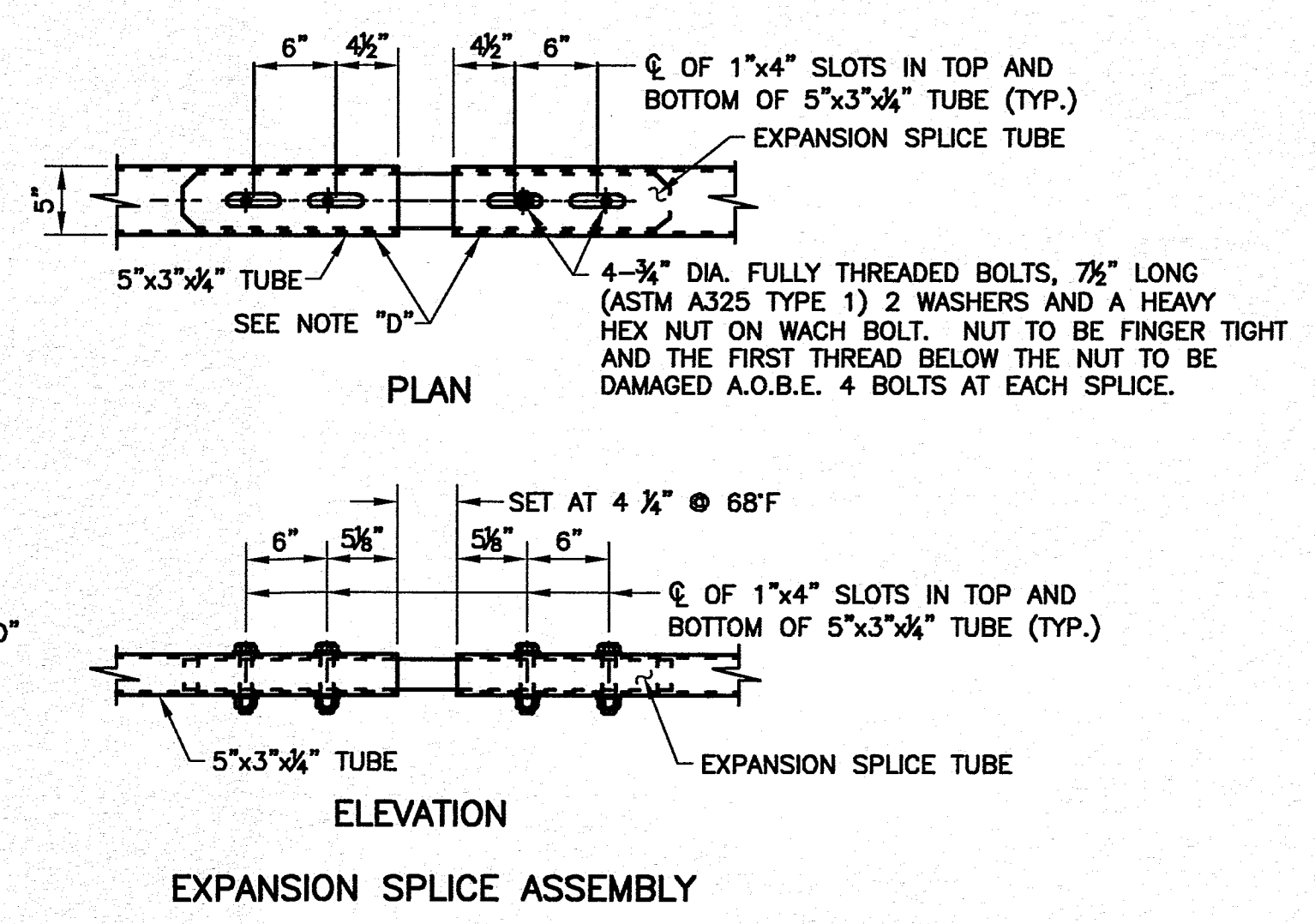
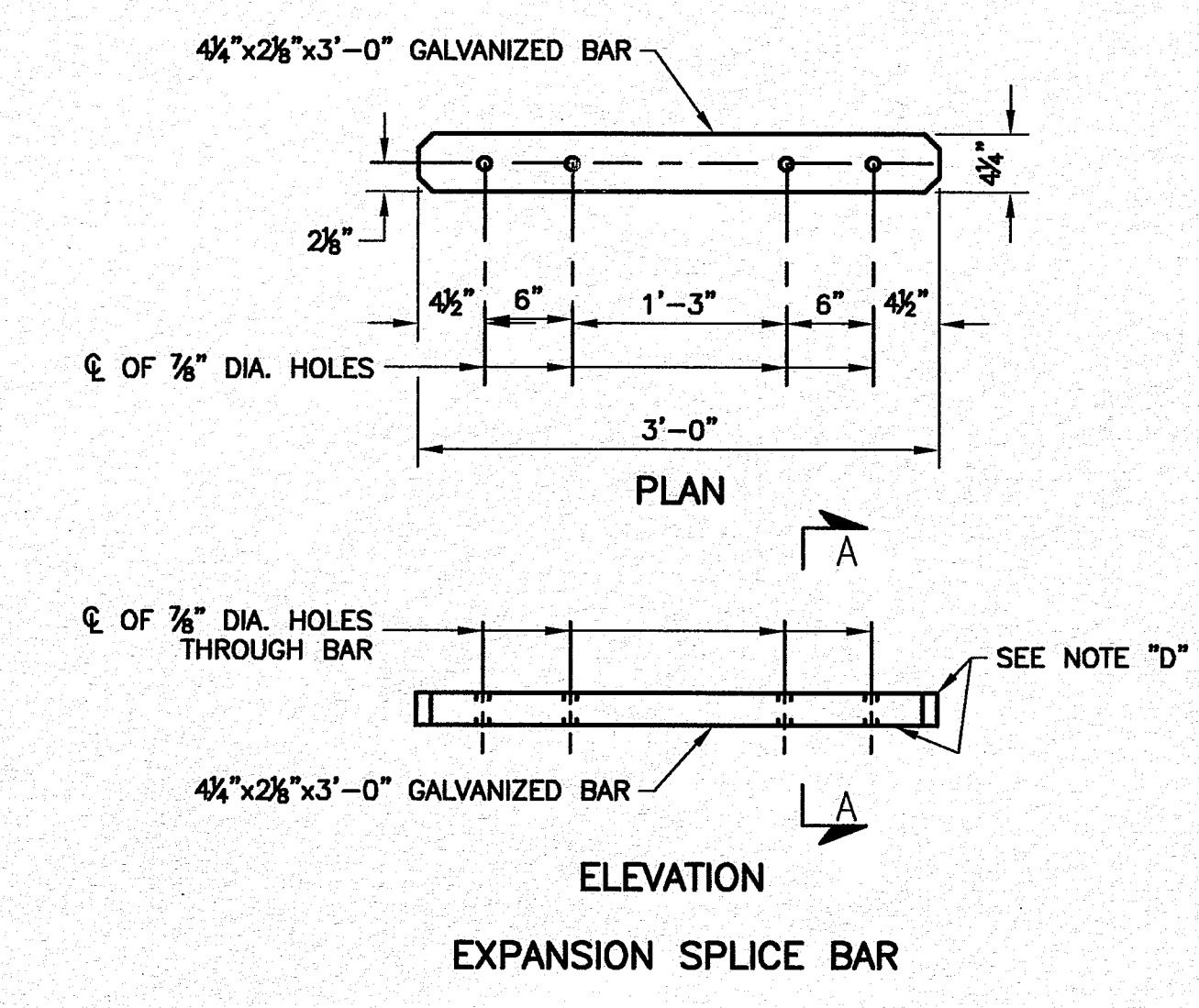
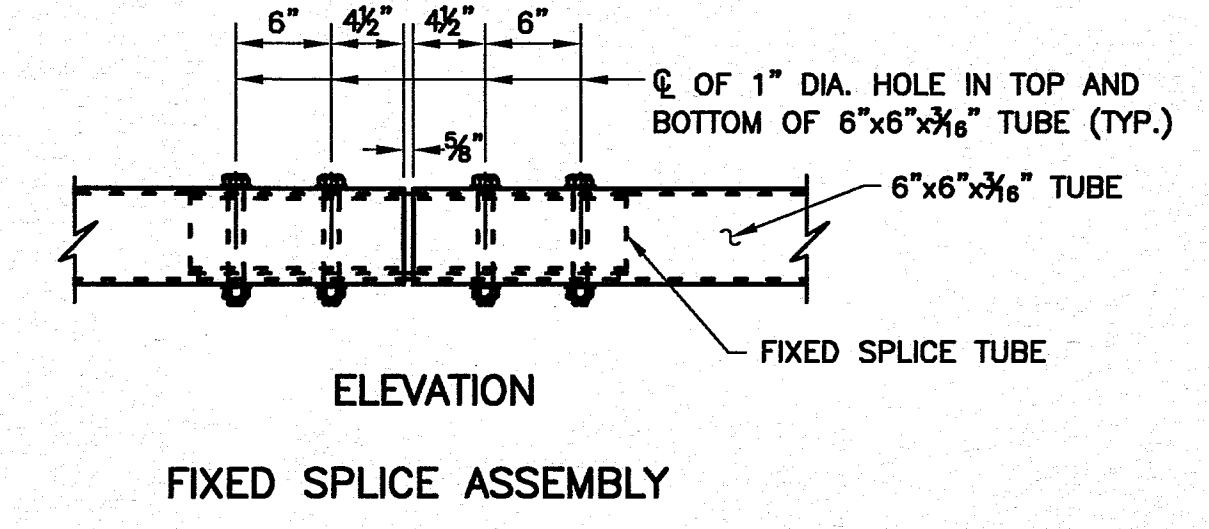
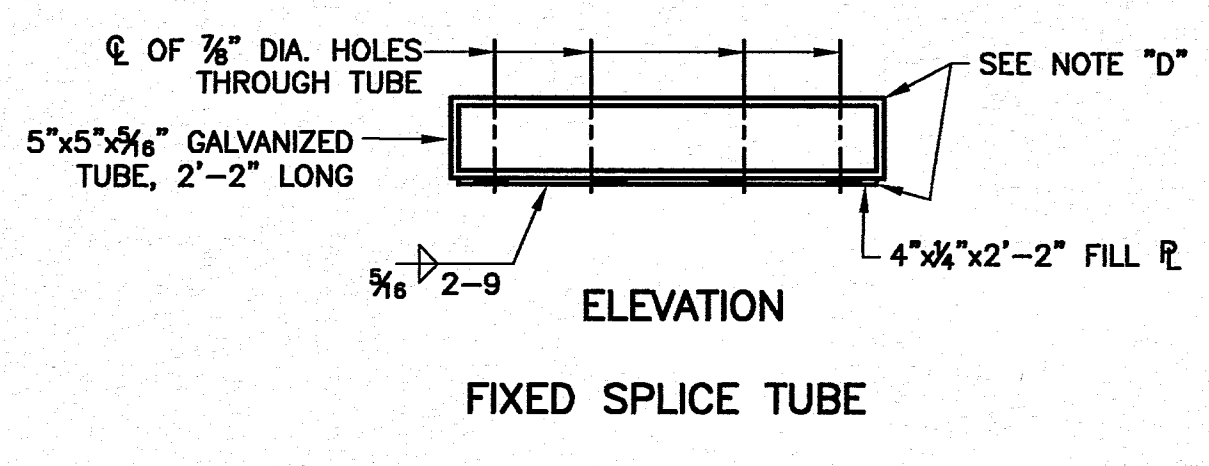
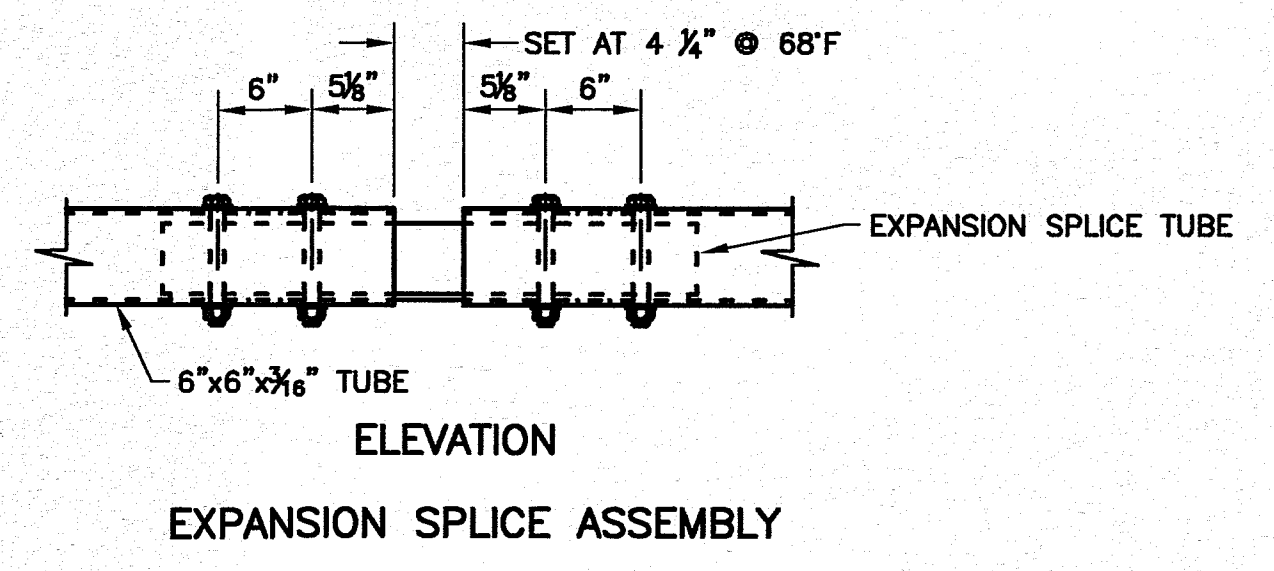
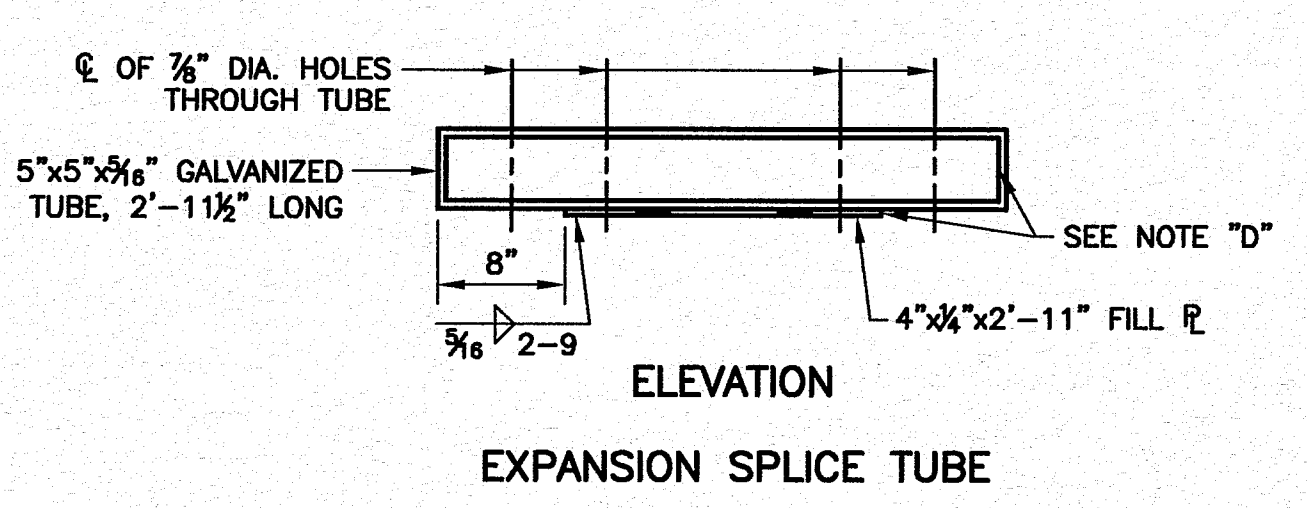
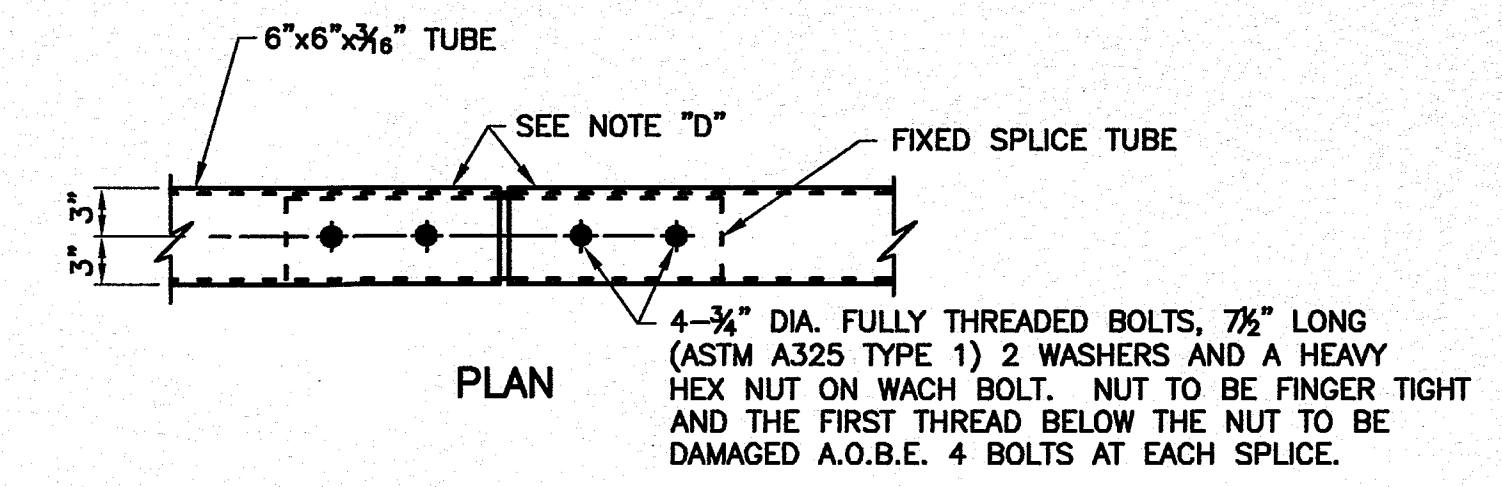
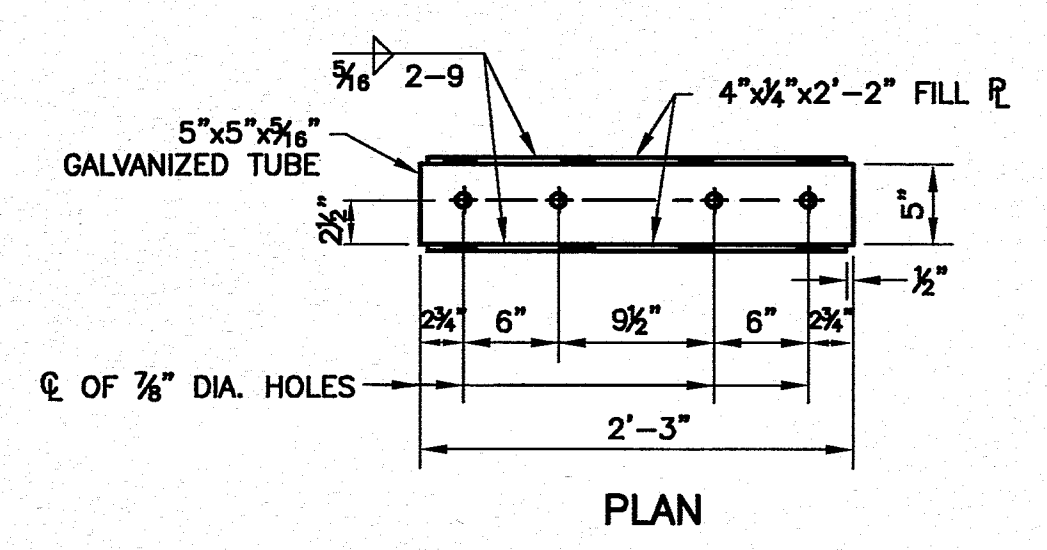
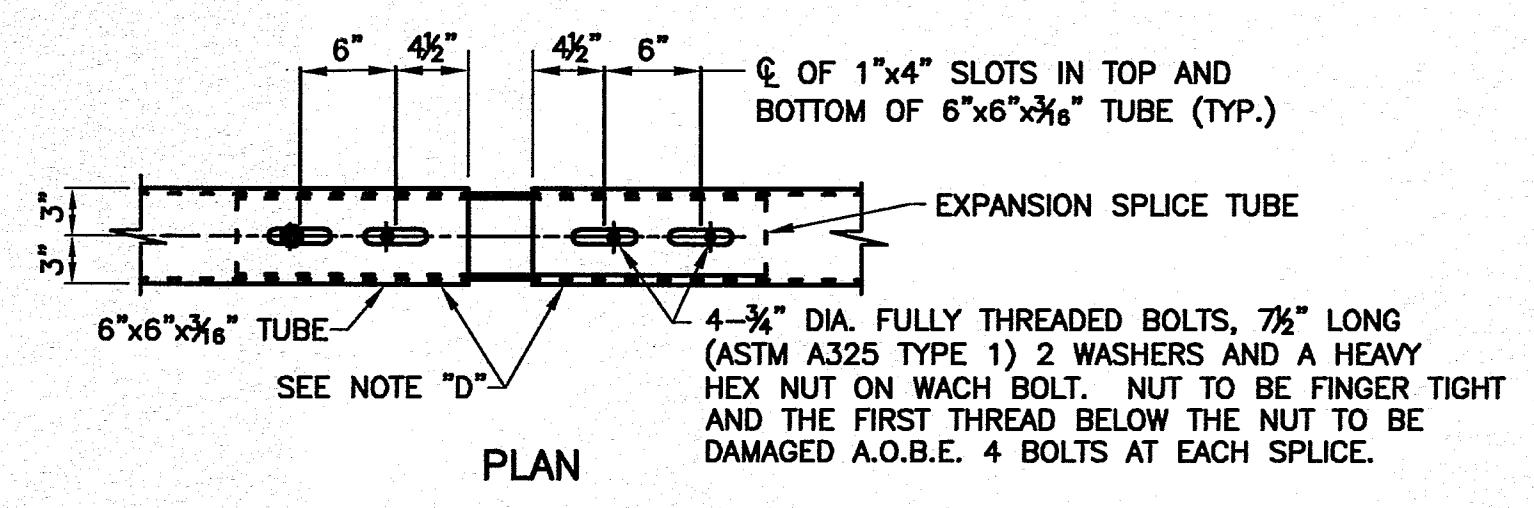
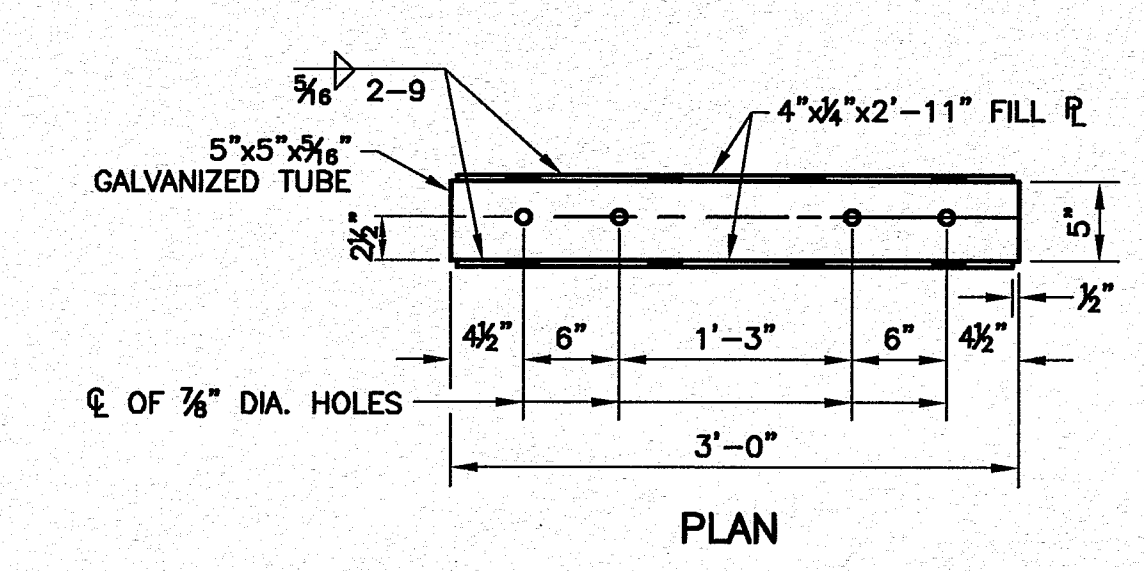
TO BE USED IN THE EVENT OF THIN SLABBED DECKS WITH INSUFFICIENT OVERHANG DEPTH (< 10") FOR EMBEDMENT OF THE PLATE.

ISSUED 5/01/08	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION OFFICE OF STRUCTURES
REVISED	
STEEL BRIDGE RAILING COMMON DETAILS & TRANSITION	
APPROVED: 1/18/08 ORIGINAL SIGNED BY GEORGE A. CHRISTIAN, P.E. DEPUTY CHIEF ENGINEER (STRUCTURES)	ISSUED UNDER EB 08-002 EFFECTIVE WITH THE LETTING OF 1/08/09

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BRIDGE RAILING SHEET 3 OF 4
TOWN OF FREEDOM
COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21



NOTES:
NOTE "D":
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

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BRIDGE RAILING SHEET 4 OF 4
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COUNTY ROAD 36 AND COUNTY ROAD 21
FREEDOM BRIDGE 04
INTERSECTION OF COUNTY ROAD 36 AND 21