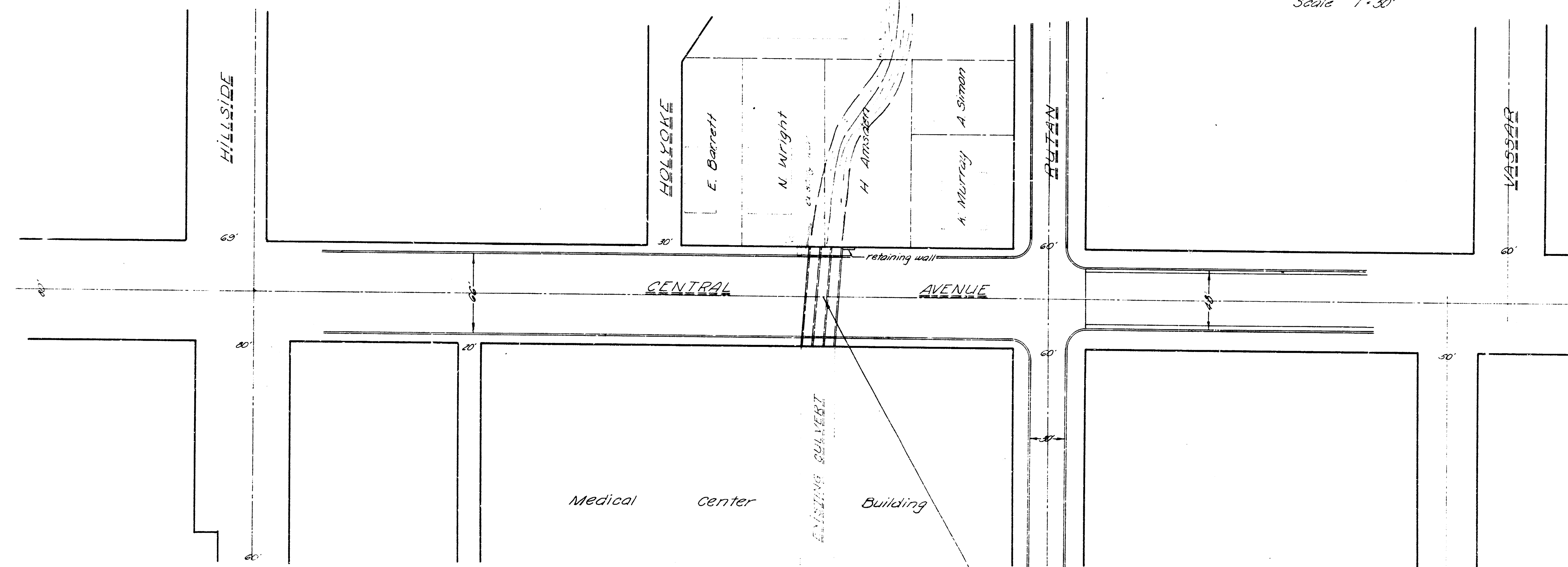
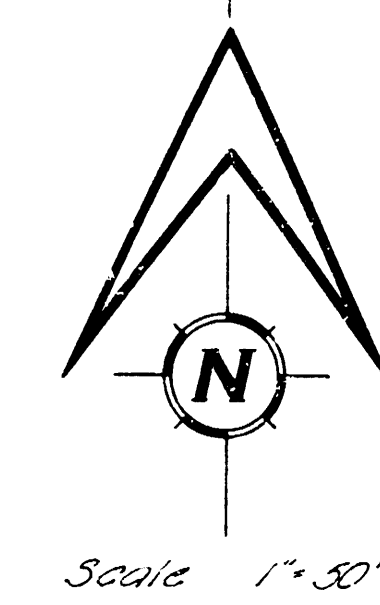


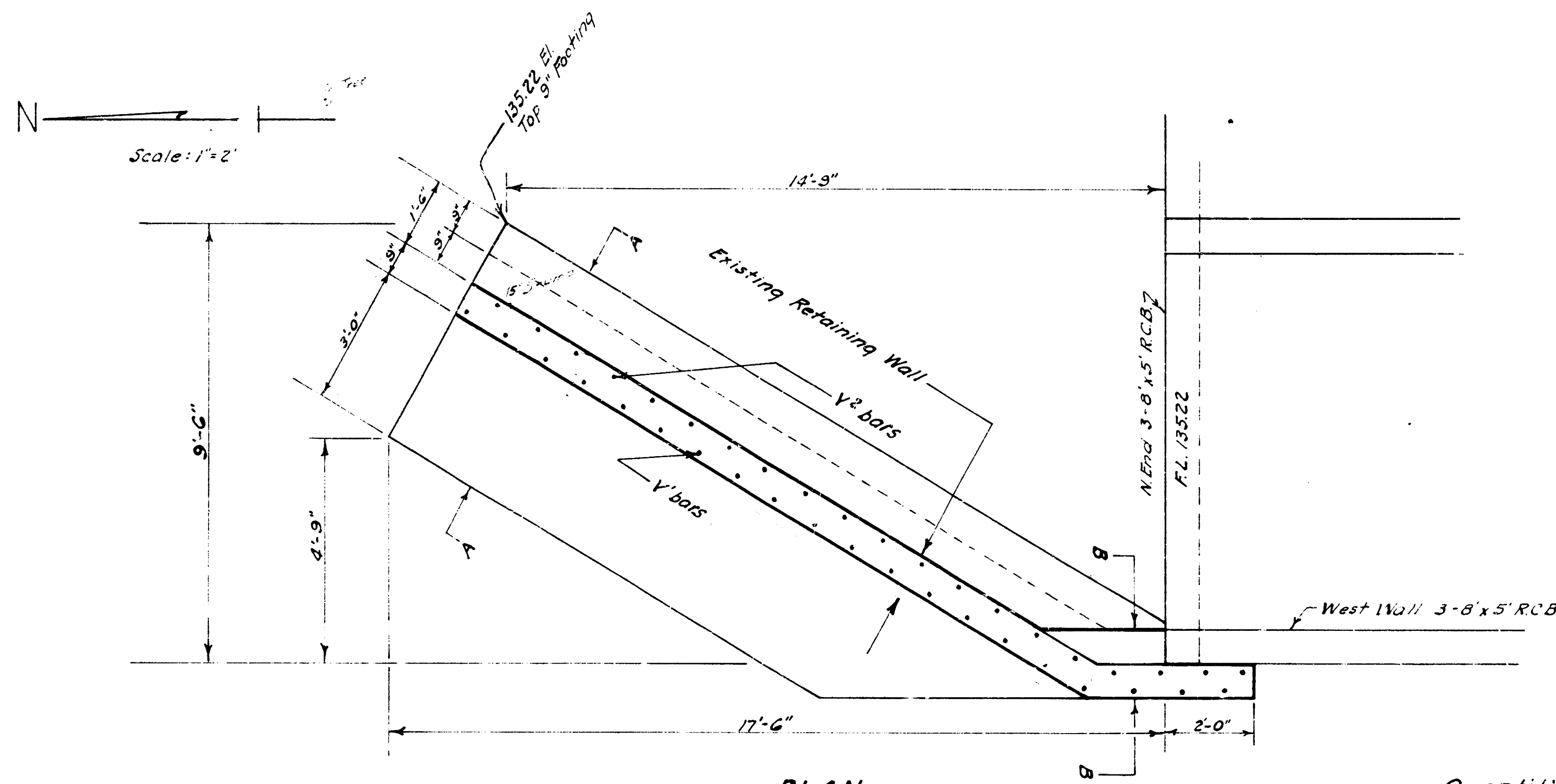
3-11-1923 City Standard Bench Mark, NE Cor. Hillside & Central.

3-8'x5'
CENTRAL
R.C.B.
AVENUE
C11-10

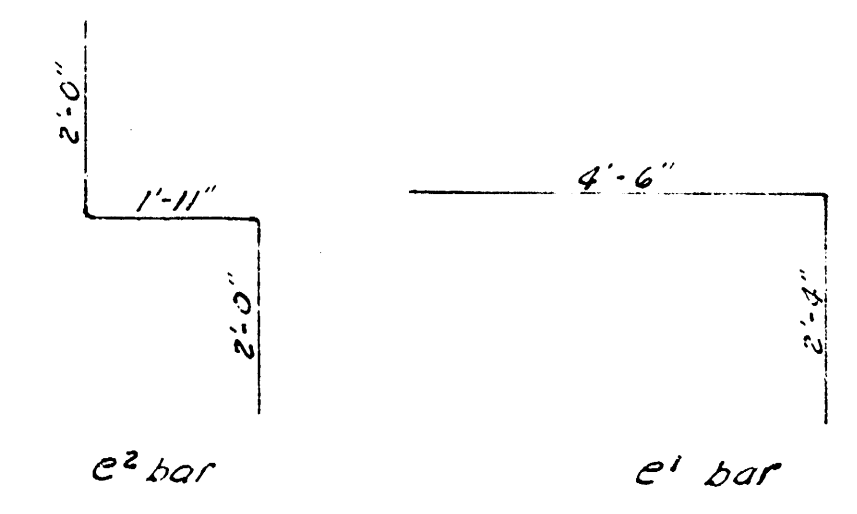
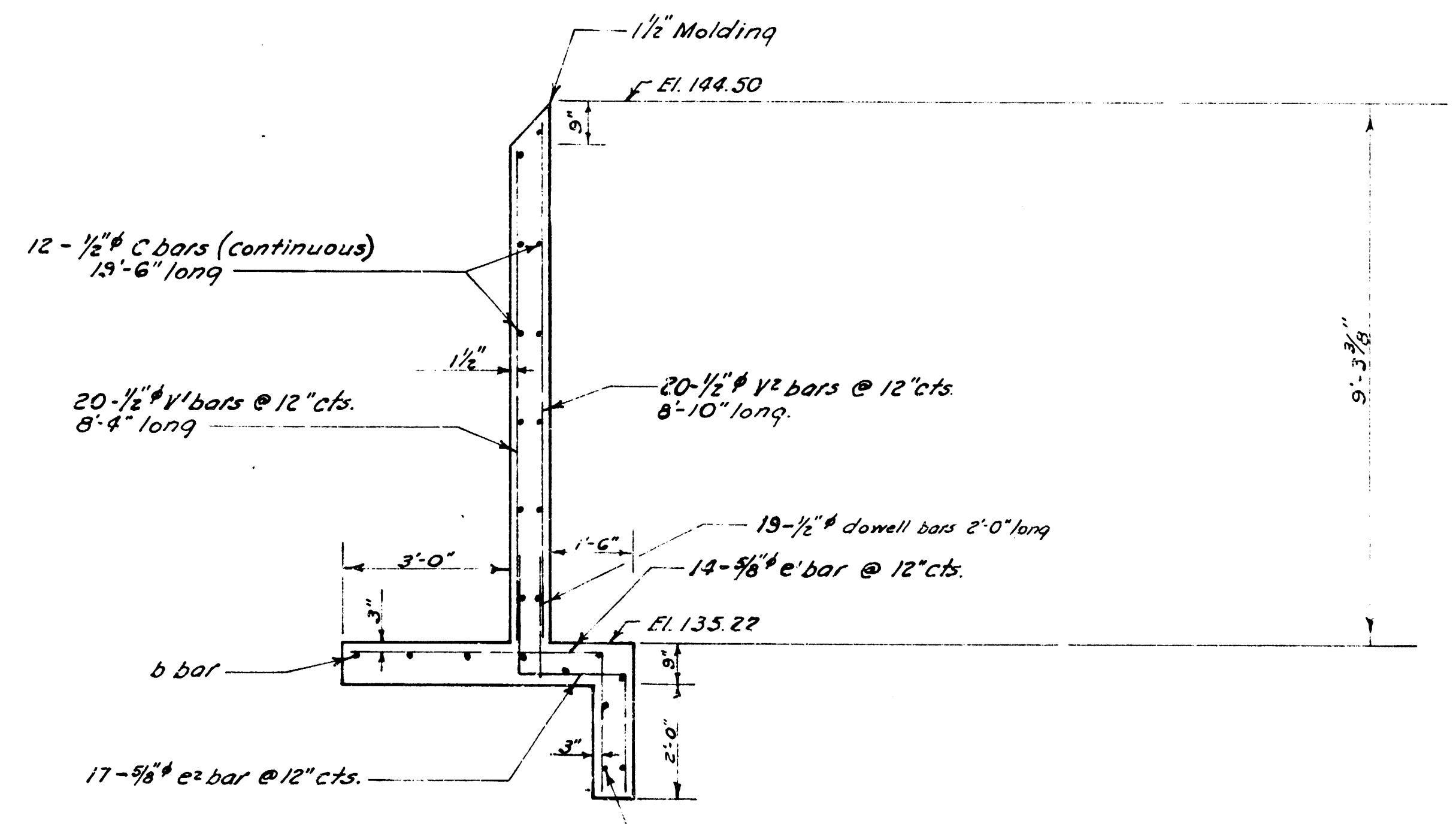
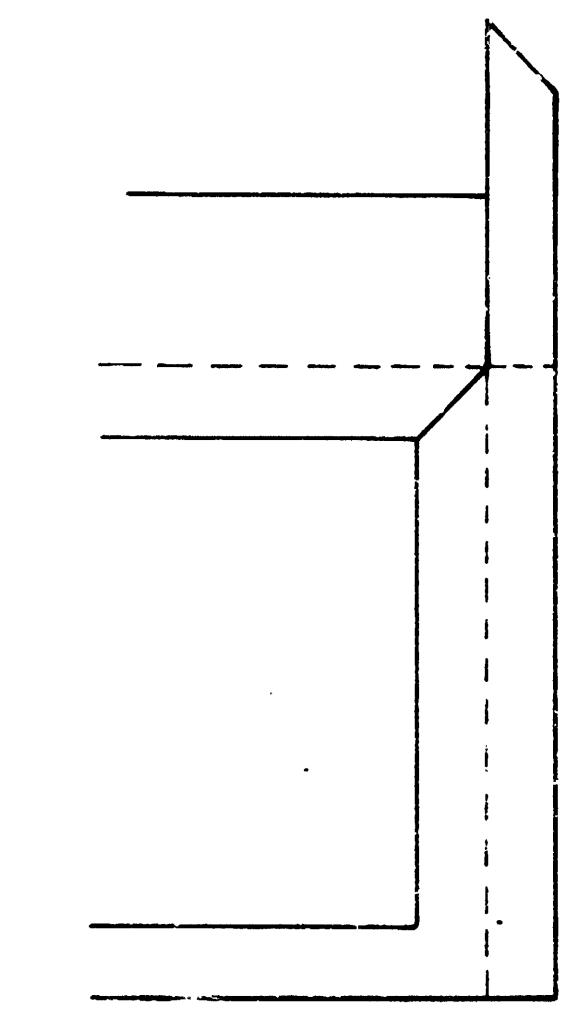


CULVERT DETAILS

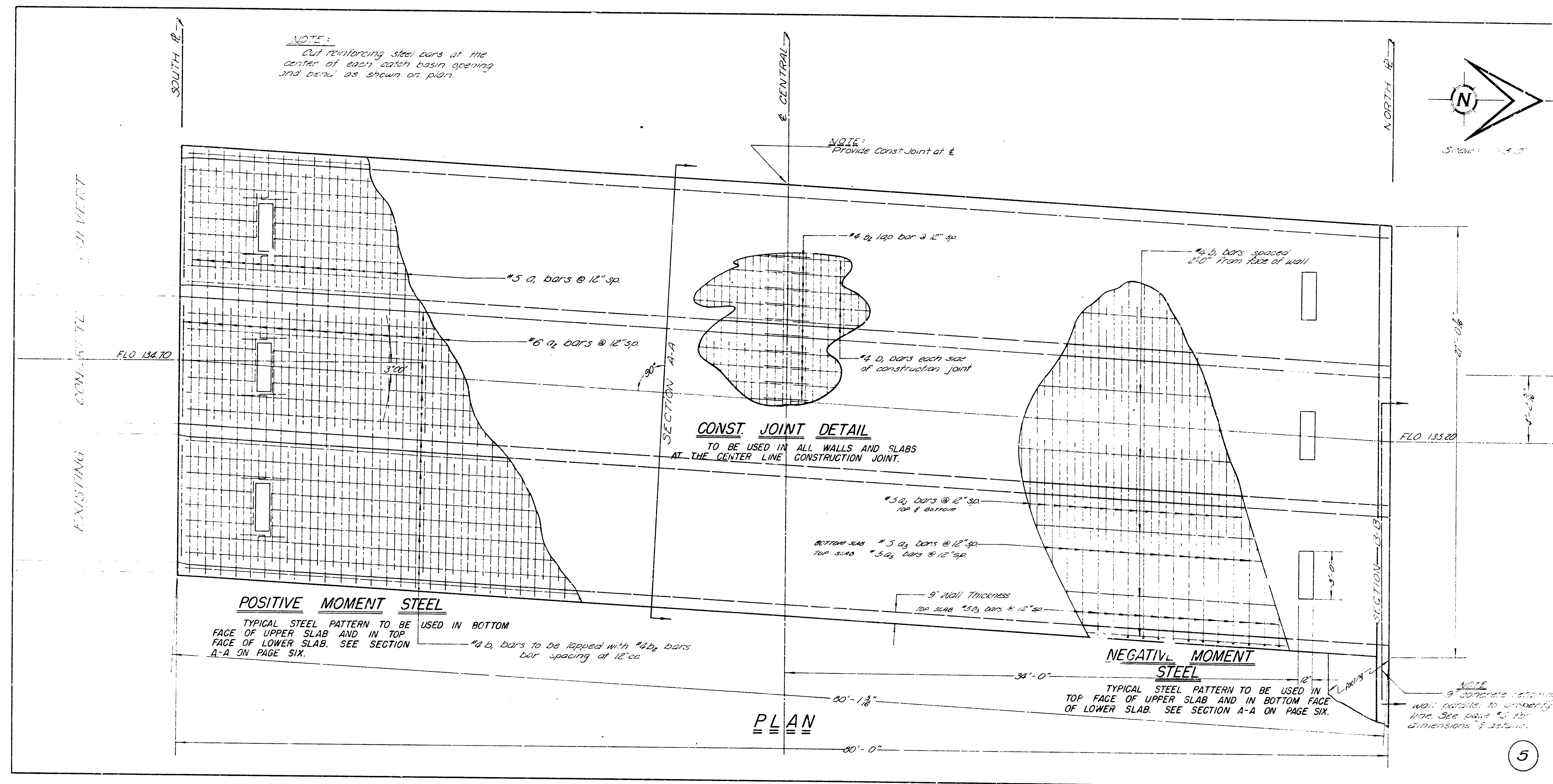
Size: three 8'-0" x 5'-0" openings
Slab Thickness: 9 inches
Wall Thickness: 9 inches
Overall Length: 190'-0"
Overall Width: 27'-0"
Slope: 3" = 1' & culvert 0.1% to E. street
New structure to match existing
concrete culvert at south E. of
Central Avenue.



Quantities
 Conc. 842 Cu. Yds.
 Steel 780 Lbs.
 Exc. 25 Cu. Yds.
 Hand Exc. 1 " "
 Comp. Fill 20 " "



RETAINING WALL DETAILS
 NORTH END 3'-8" x 5' R.C.B. ON CENTRAL AVE.
 BETWEEN HILLSIDE & RUTLAND
 PROJECT NO. C11-10



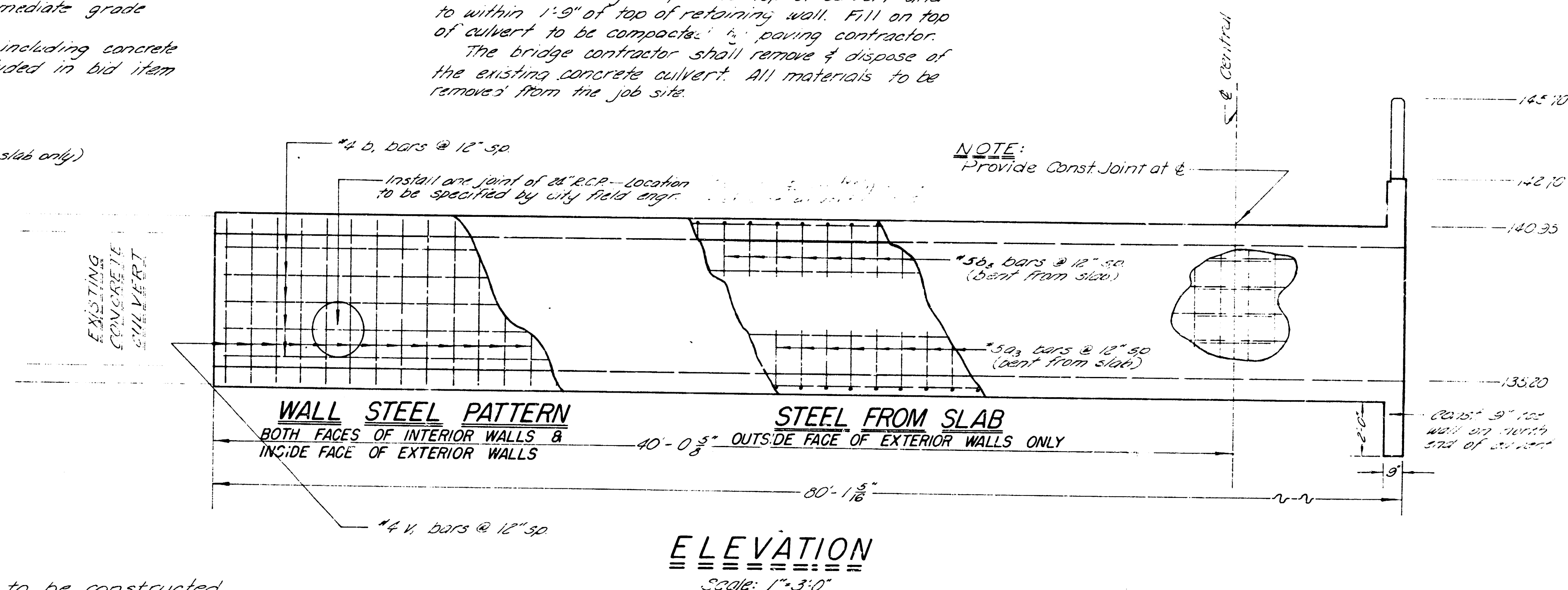
Class A-AE concrete shall be used throughout this project.

All reinforcing steel shall conform to ASTM specification A305-53T for new intermediate grade steel bars of deformed section.

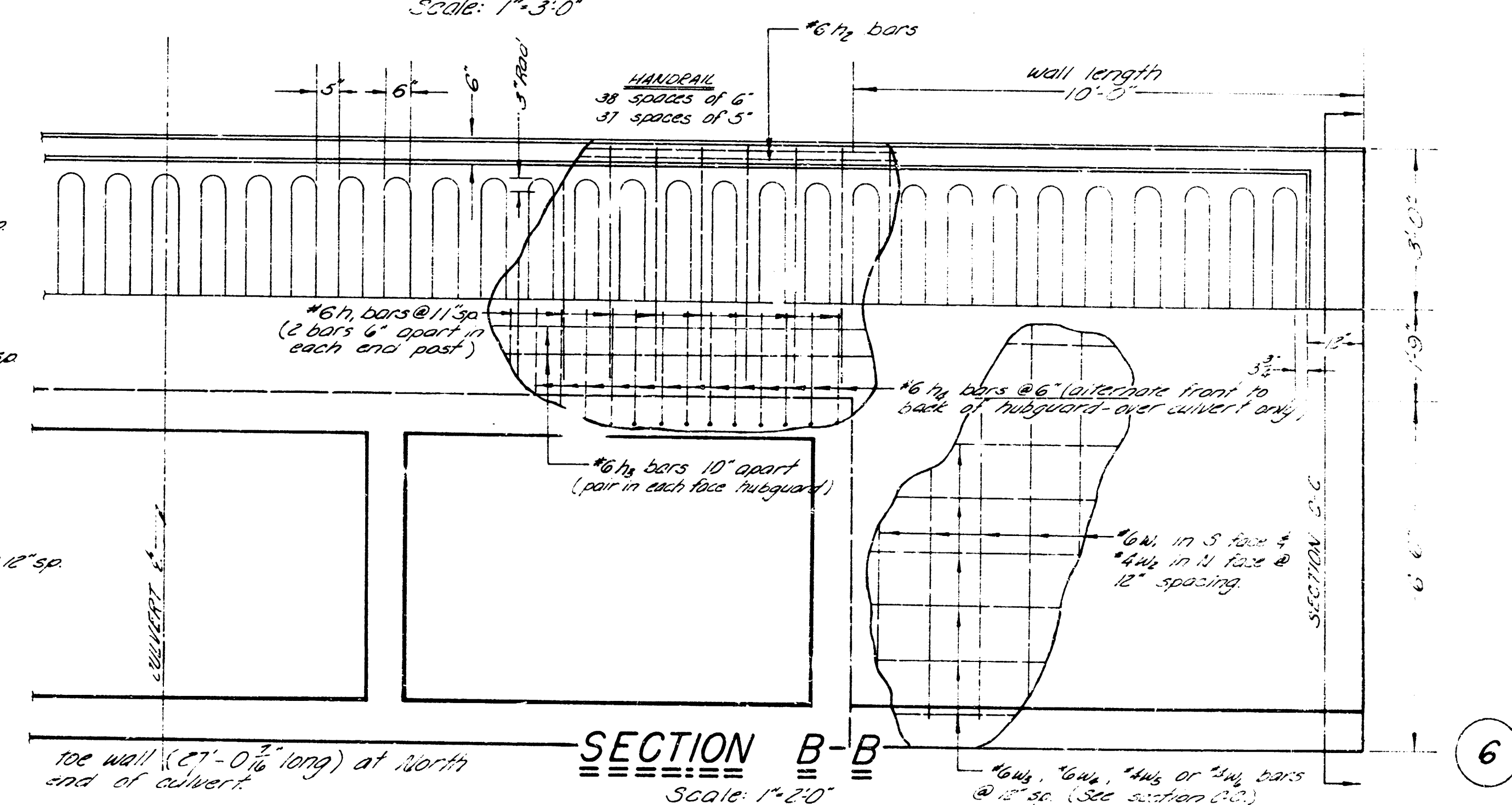
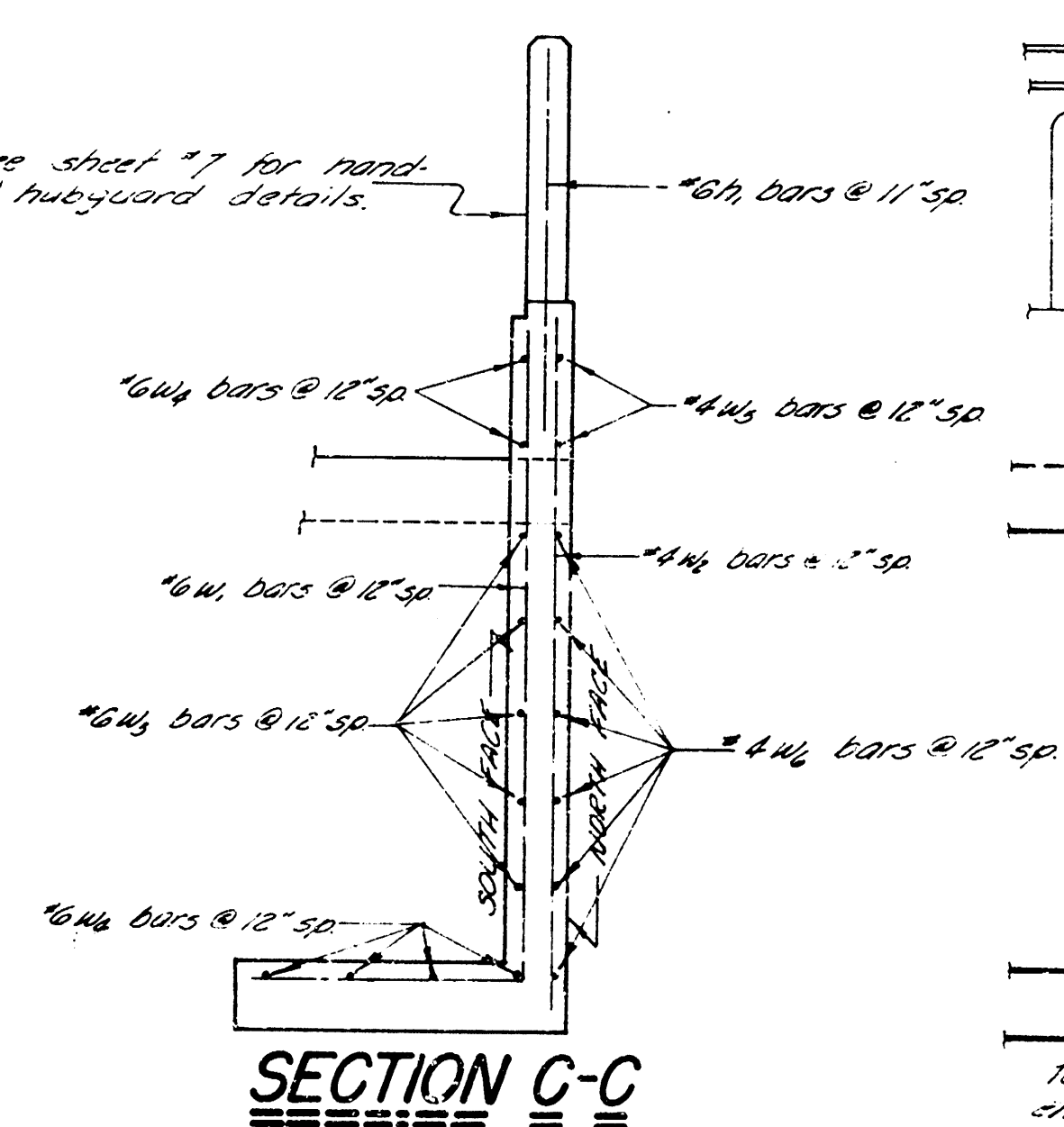
All parts of concrete handrail including concrete and reinforcing steel shall be included in bid item "Concrete Handrail."

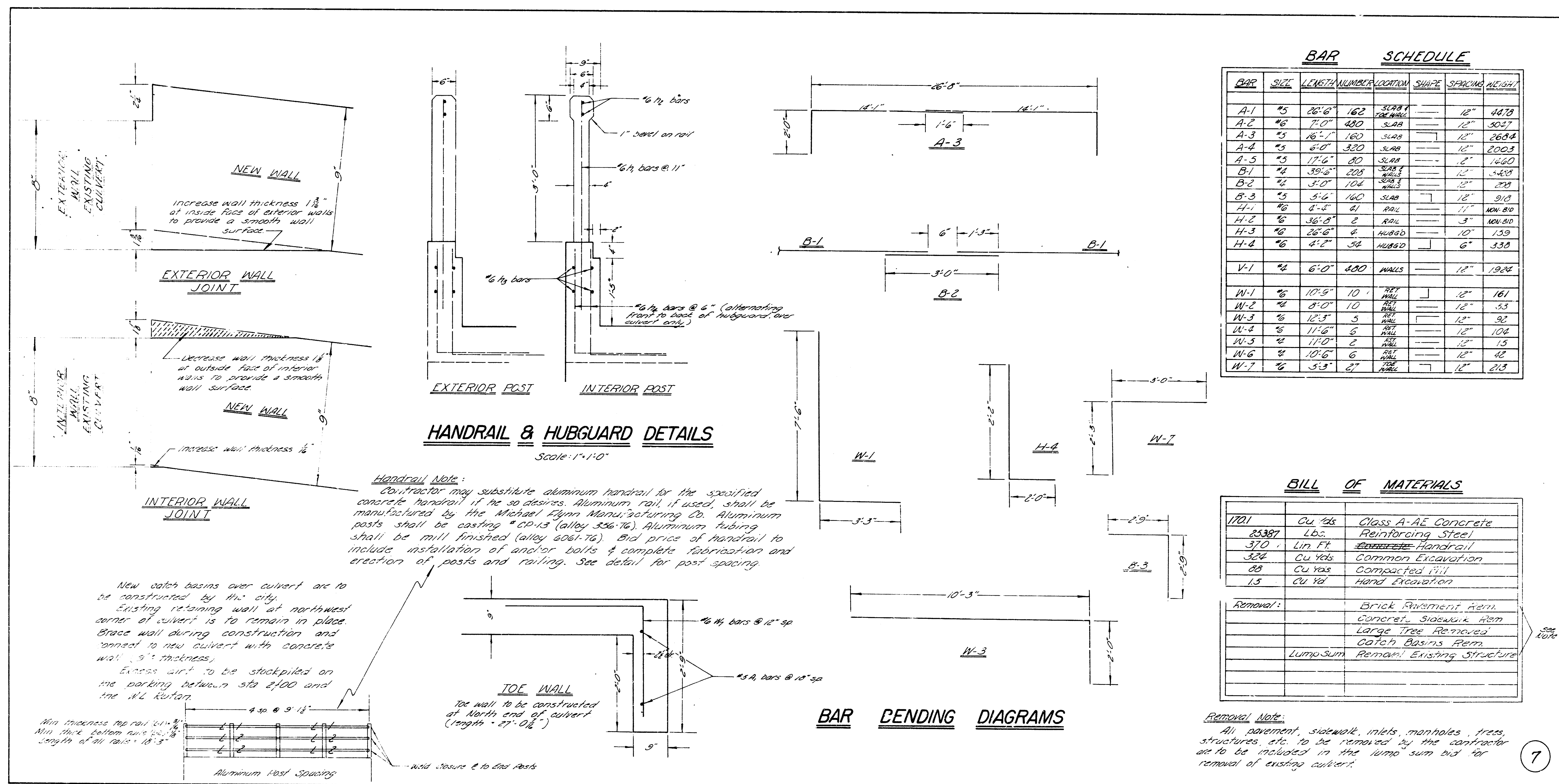
Common excavation shall be figured as extending two feet on each side of new culvert. Backfill to be mechanically tamped to top of culvert and to within 1'-9" of top of retaining wall. Fill on top of culvert to be compacted by paving contractor.

The bridge contractor shall remove & dispose of the existing concrete culvert. All materials to be removed from the job site.



NOTE
Retaining Wall to be constructed
on north-east corner of culvert.



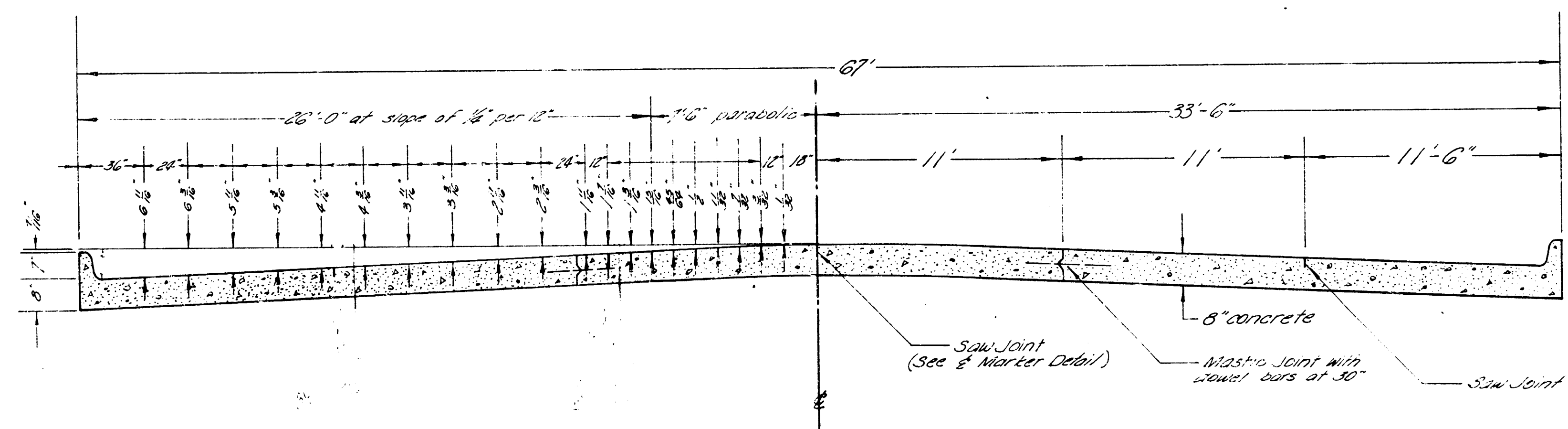


BAR SCHEDULE							
BAR	SIZE	LENGTH	NUMBER	LOCATION	SHAPE	SPACING	REMARKS
A-1	#5	26'-6"	162	SLAB 1	U	12"	44.78
A-2	#6	7'-0"	480	SLAB	U	12"	30.57
A-3	#5	16'-1"	180	SLAB	U	12"	26.84
A-4	#5	6'-0"	320	SLAB	U	12"	20.03
A-5	#5	17'-6"	80	SLAB	U	12"	14.60
B-1	#4	39'-6"	208	SLAB 2	U	12"	14.68
B-2	#4	5'-0"	104	SLAB 3	U	12"	2.88
B-3	#5	5'-6"	140	SLAB	U	12"	9.18
H-1	#6	8'-5"	41	RAIL	U	12"	104.80
H-2	#6	36'-8"	2	RAIL	U	12"	104.80
H-3	#6	26'-6"	4	HUBGD	U	10"	13.9
H-4	#6	4'-2"	34	HUBGD	U	6"	33.0
V-1	#4	6'-0"	400	WALLS	U	12"	19.84
W-1	#6	10'-5"	10	RET WALL	U	12"	161
W-2	#4	8'-0"	10	WALL	U	12"	53
W-3	#6	12'-8"	5	WALL	U	12"	92
W-4	#6	11'-6"	5	WALL	U	12"	104
W-5	#4	11'-0"	2	WALL	U	12"	15
W-6	#4	10'-6"	6	WALL	U	12"	42
W-7	#6	5'-3"	61	WALL	U	12"	213

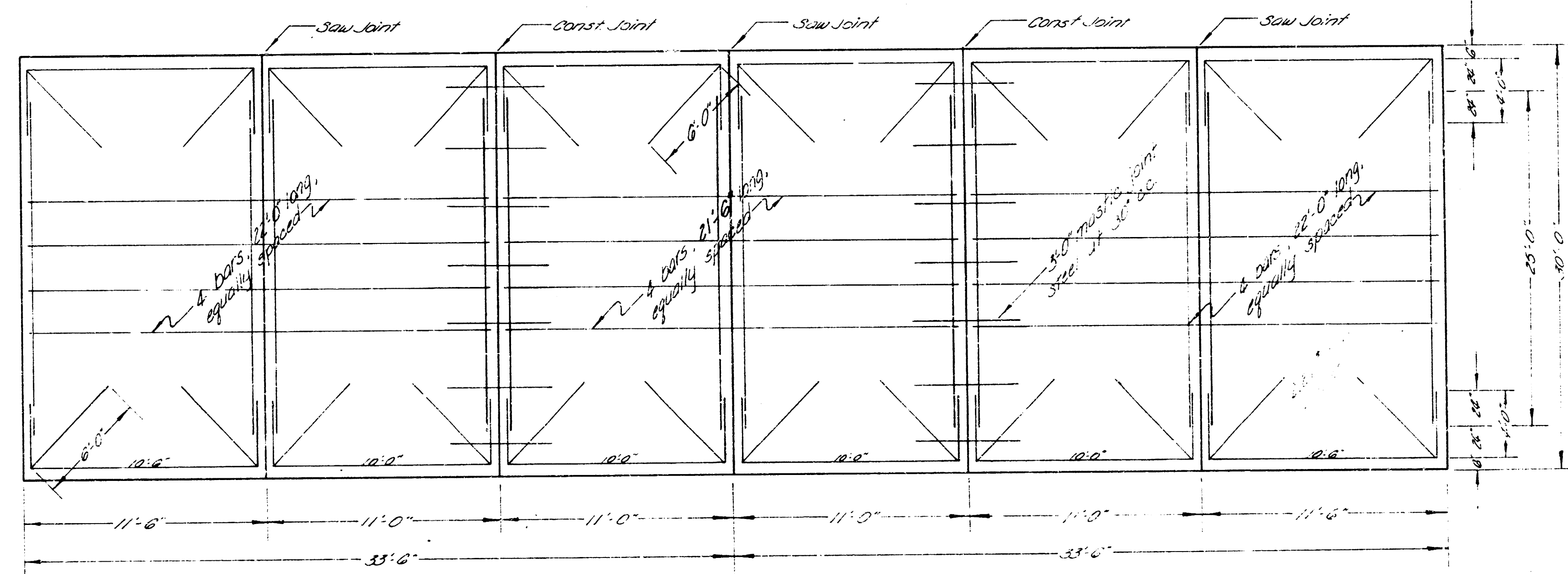
BILL OF MATERIALS		
1721	Cu Yds	Class A-AE Concrete
25387	Lbs	Reinforcing Steel
370	Lin Ft	Concrete Handrail
324	Cu Yds	Common Excavation
83	Cu Yds	Compacted Fill
15	Cu Yd	Hand Excavation
Removal:		Brick Pavement Rem.
		Concrete Sidewalk Rem
		Large Tree Removed
		Catch Basins Rem
		Lump Sum Remain Existing Structure

Removal Note:
All pavement, sidewalk, inlets, manholes, trees, structures, etc. to be removed by the contractor are to be included in the lump sum bid for removal of existing culvert.

CENTRAL AVE.
E.L. HILLSIDE TO E.L. RUTAN
C 11-10

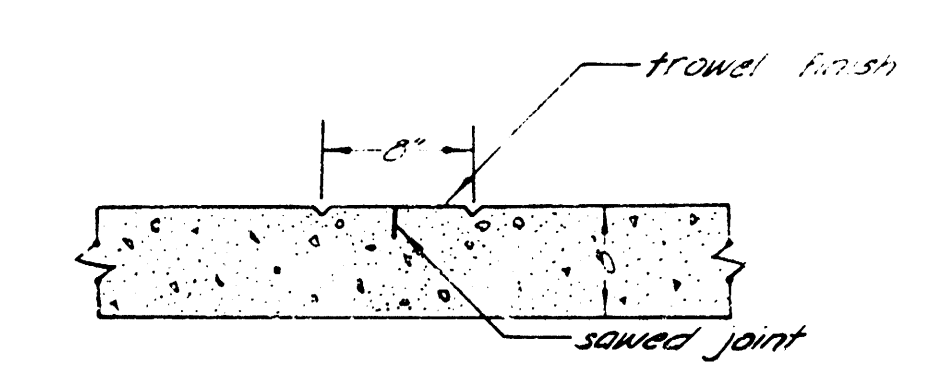


TYPICAL SECTION

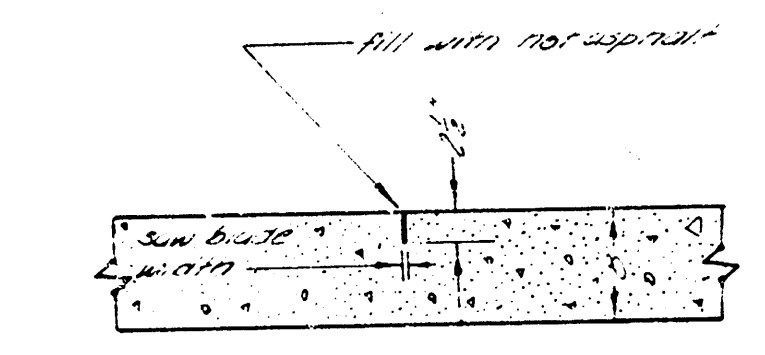


STEEL PATTERN

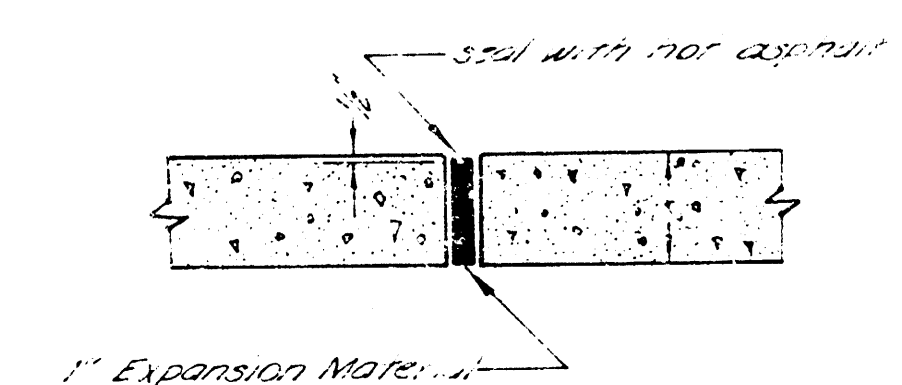
NOTE:
 All reinforcing steel shall consist of #6 bars except for master joint details. These details shall be #8 bars, with ends sawing along the master joint.



MARKER DETAIL
 Place full length of job



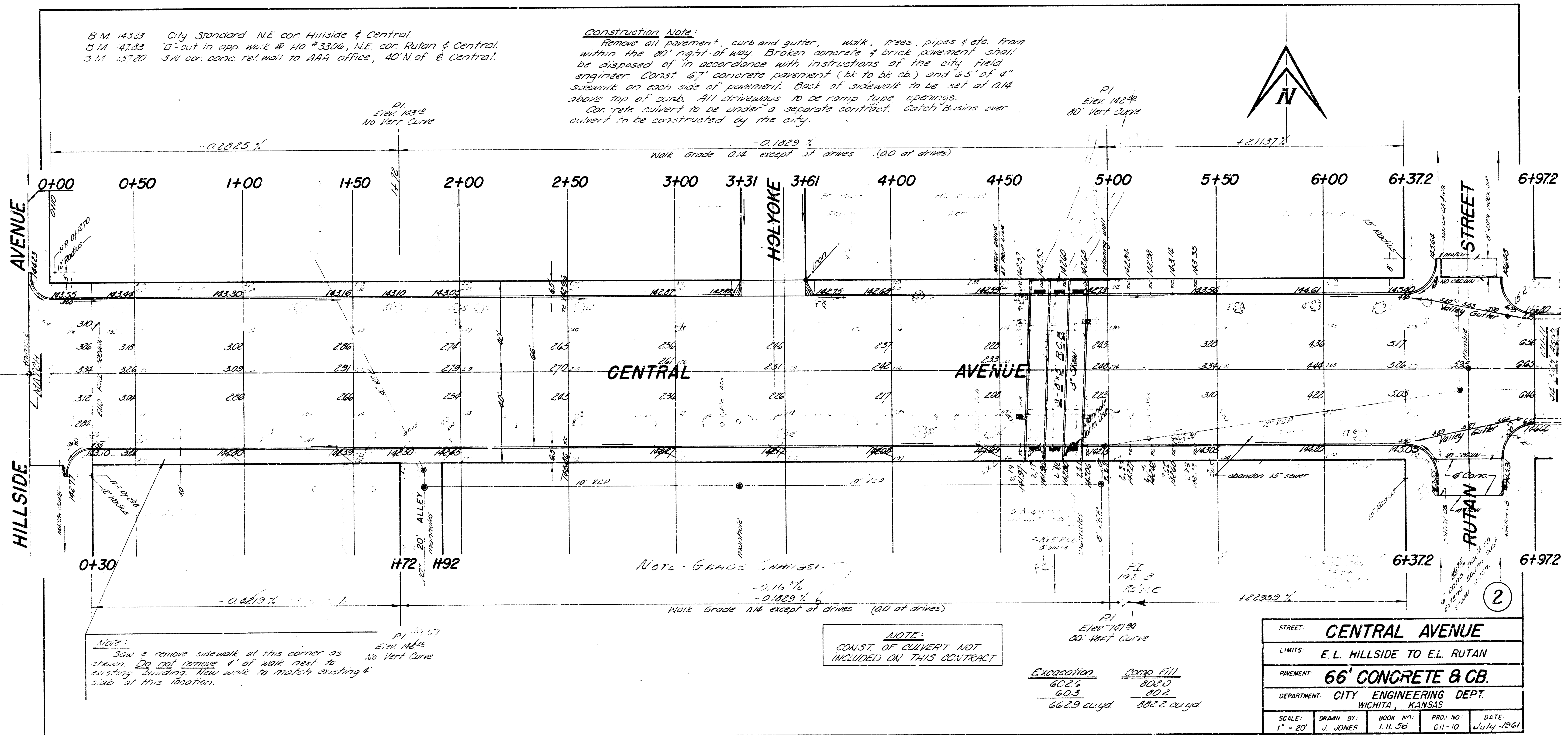
TRANSVERSE & LONGITUDINAL SAW JOINT DETAIL
 To be used at 30' intervals (transverse) except where expansion joints are used



EXPANSION JOINT
 To be used at 120' intervals

B.M. 14323 City Standard N.E. cor. Hillside & Central.
 B.M. 14183 "D"-cut in opp. walk @ H.O. #3306, N.E. cor. Rutan & Central.
 B.M. 13720 S.W. cor. conc. rail wall to AAA office, 40' N. of E. Central.

Construction Note:
 Remove all pavement, curb and gutter, walk, trees, pipes & etc. from within the 20' right-of-way. Broken concrete & brick pavement shall be disposed of in accordance with instructions of the city field engineer. Const. 66' concrete pavement (bk to bk cb) and 4.5' of 4" sidewalk on each side of pavement. Back of sidewalk to be set at 0.14 above top of curb. All driveways to be ramp type openings. Concrete culvert to be under a separate contract. Catch basins over culvert to be constructed by the city.



NOTE:
 Saw & remove sidewalk at this corner as shown. Do not remove 4' of walk next to existing building. New work to match existing & side at this location.

NOTE:
 CONST. OF CULVERT NOT INCLUDED ON THIS CONTRACT

Excavation	Comp. Fill
602.5	802.5
60.3	82.2
662.9 cu yd	884.7 cu yd

