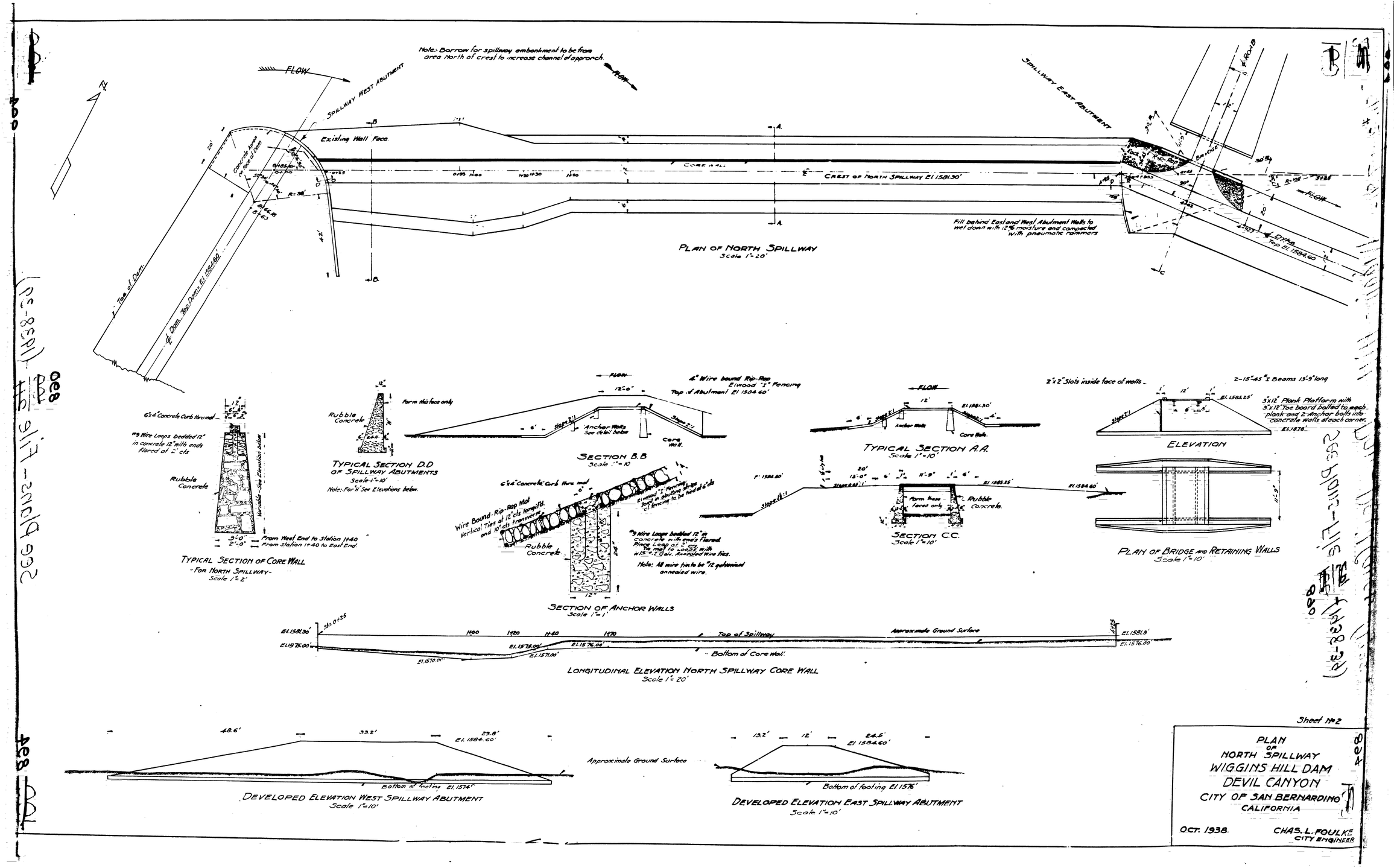
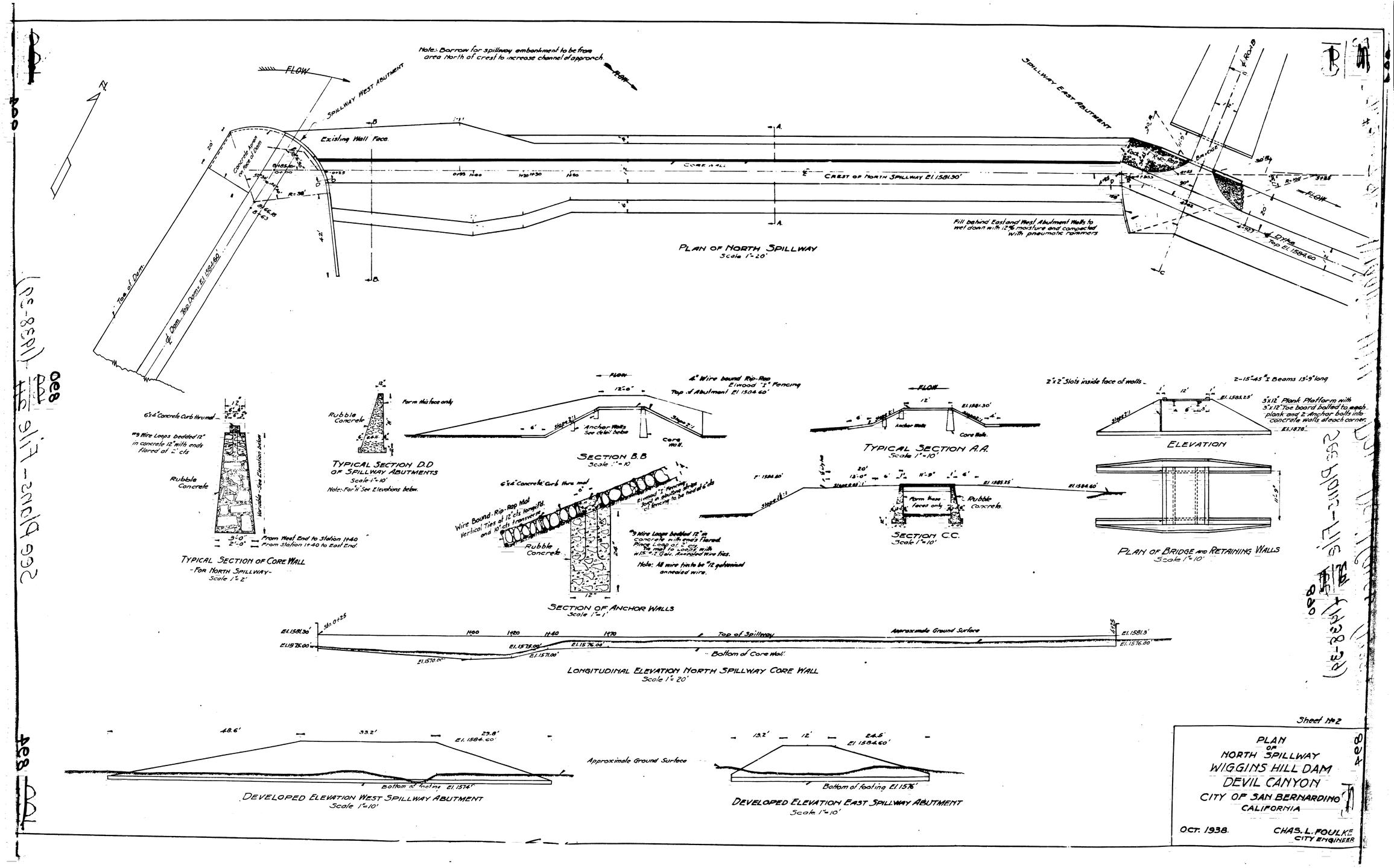
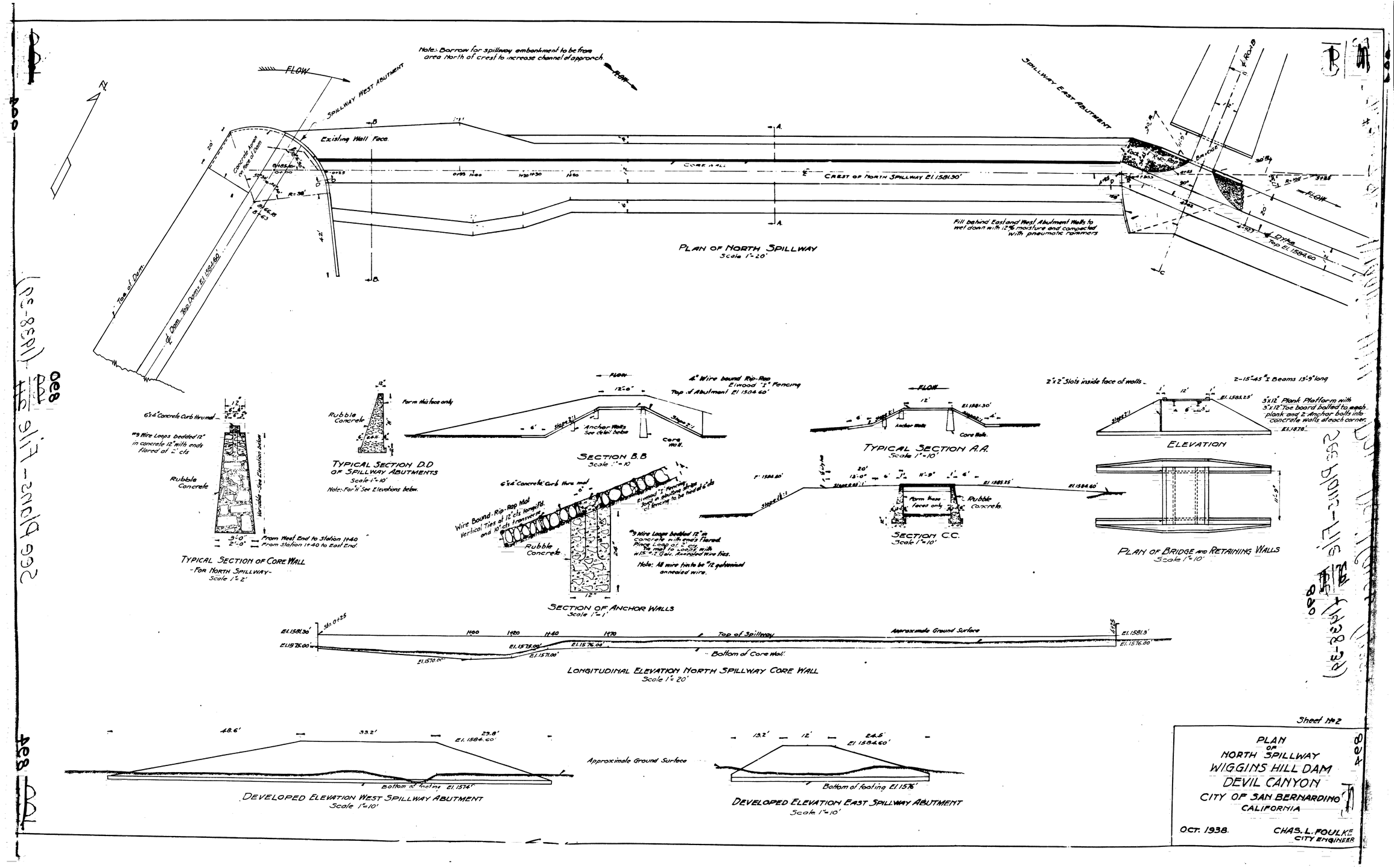

Note:- Borrow for spillway embankment to be from area North of crest to increase channel of approach.
FLOW
SPILLWAY WEST ABUTMENT
SPILLWAY EAST ABUTMENT
Existing Wall Face
Concrete Apron on face of Dam
CORE WALL
CREST OF NORTH SPILLWAY El. 1581.30'
Fill behind East and West Abutment Walls to wet down with 12% moisture and compacted with pneumatic rammers
PLAN OF NORTH SPILLWAY
Scale 1"=20'
Toe of Dam
℄ Dam Top Dam El. 1584.60'
℄ Road
Dykes Top El. 1584.60
Rock Rip Rap
Bridge
Rubble Concrete
Form this face only
TYPICAL SECTION D.D OF SPILLWAY ABUTMENTS
Scale 1"=10'
Note:- For 'h' See Elevations below.
6"x4" Concrete Curb thru mud
#9 Wire Loops bedded 12" in concrete 12" with ends flared at 2' c/s
Variable - See Elevation below
3'-0" From West End to Station 1+40
2'-0" From Station 1+40 to East End.
TYPICAL SECTION OF CORE WALL
- FOR NORTH SPILLWAY -
Scale 1"=2'
4" Wire bound Rip-Rap
Elwood "X" Fencing
Top of Abutment El. 1584.60'
Anchor Walls See detail below
Core Wall.
SECTION B.B
Scale 1"=10'
Wire Bound Rip-Rap Mat
Vertical Ties of 12' c/s lengths and 10' c/s transverse
Elwood "X" Fencing to be held 6' c/s of fencing to be held 6' c/s
#9 Wire Loops bedded 12" in concrete with ends flared. Pinch Loop at 2' c/s. Tie mat to Loops with #18 - 2 Galv. Annealed Wire ties.
Note: All wire ties to be #12 galvanized annealed wire.
SECTION OF ANCHOR WALLS
Scale 1"=1'
TYPICAL SECTION A.A.
Scale 1"=10'
Anchor Walls
Core Walls.
Form these faces only
SECTION C.C.
Scale 1"=10'
2"x2" Slots inside face of walls
2-15"-45# I Beams 13'-9" long
3"x12" Plank Platform with 3"x12" Toe board bolted to each plank and 2 anchor bolts into concrete walls at each corner.
ELEVATION
PLAN OF BRIDGE AND RETAINING WALLS
Scale 1"=10'
Top of Spillway
Approximate Ground Surface
Bottom of Core Wall
LONGITUDINAL ELEVATION NORTH SPILLWAY CORE WALL
Scale 1"=20'
48.6'
33.2'
23.8'
El. 1584.60'
Bottom of footing El. 1574'
DEVELOPED ELEVATION WEST SPILLWAY ABUTMENT
Scale 1"=10'
Approximate Ground Surface
13.2'
12'
24.6'
El. 1584.60'
Bottom of footing El. 1576'
DEVELOPED ELEVATION EAST SPILLWAY ABUTMENT
Scale 1"=10'
Sheet No 2
PLAN OF NORTH SPILLWAY
WIGGINS HILL DAM
DEVIL CANYON
CITY OF SAN BERNARDINO
CALIFORNIA
OCT. 1938.
CHAS. L. POULKE
CITY ENGINEER


Note:- Borrow for spillway embankment to be from area North of crest to increase channel of approach.
FLOW
SPILLWAY WEST ABUTMENT
SPILLWAY EAST ABUTMENT
Existing Wall Face
Concrete Apron on face of Dam
CORE WALL
CREST OF NORTH SPILLWAY El. 1581.30'
Fill behind East and West Abutment Walls to wet down with 12% moisture and compacted with pneumatic rammers
PLAN OF NORTH SPILLWAY
Scale 1"=20'
Toe of Dam
℄ Dam Top Dam El. 1584.60'
℄ Road
Dykes Top El. 1584.60
Rock Rip Rap
Bridge
Rubble Concrete
Form this face only
TYPICAL SECTION D.D OF SPILLWAY ABUTMENTS
Scale 1"=10'
Note:- For 'h' See Elevations below.
6"x4" Concrete Curb thru mud
#9 Wire Loops bedded 12" in concrete 12" with ends flared at 2' c/s
Variable - See Elevation below
3'-0" From West End to Station 1+40
2'-0" From Station 1+40 to East End.
TYPICAL SECTION OF CORE WALL
- FOR NORTH SPILLWAY -
Scale 1"=2'
4" Wire bound Rip-Rap
Elwood "X" Fencing
Top of Abutment El. 1584.60'
Anchor Walls See detail below
Core Wall.
SECTION B.B
Scale 1"=10'
Wire Bound Rip-Rap Mat
Vertical Ties of 12' c/s lengths and 10' c/s transverse
Elwood "X" Fencing to be held 6' c/s of fencing to be held 6' c/s
#9 Wire Loops bedded 12" in concrete with ends flared. Pinch Loop at 2' c/s. Tie mat to Loops with #18 - 2 Galv. Annealed Wire ties.
Note: All wire ties to be #12 galvanized annealed wire.
SECTION OF ANCHOR WALLS
Scale 1"=1'
TYPICAL SECTION A.A.
Scale 1"=10'
Anchor Walls
Core Walls.
Form these faces only
SECTION C.C.
Scale 1"=10'
2"x2" Slots inside face of walls
2-15"-45# I Beams 13'-9" long
3"x12" Plank Platform with 3"x12" Toe board bolted to each plank and 2 anchor bolts into concrete walls at each corner.
ELEVATION
PLAN OF BRIDGE AND RETAINING WALLS
Scale 1"=10'
Top of Spillway
Approximate Ground Surface
Bottom of Core Wall
LONGITUDINAL ELEVATION NORTH SPILLWAY CORE WALL
Scale 1"=20'
48.6'
33.2'
23.8'
El. 1584.60'
Bottom of footing El. 1574'
DEVELOPED ELEVATION WEST SPILLWAY ABUTMENT
Scale 1"=10'
Approximate Ground Surface
13.2'
12'
24.6'
El. 1584.60'
Bottom of footing El. 1576'
DEVELOPED ELEVATION EAST SPILLWAY ABUTMENT
Scale 1"=10'
Sheet No 2
PLAN OF NORTH SPILLWAY
WIGGINS HILL DAM
DEVIL CANYON
CITY OF SAN BERNARDINO
CALIFORNIA
OCT. 1938.
CHAS. L. POULKE
CITY ENGINEER


Note:- Borrow for spillway embankment to be from area North of crest to increase channel of approach.
FLOW
SPILLWAY WEST ABUTMENT
SPILLWAY EAST ABUTMENT
Existing Wall Face
Concrete Apron on face of Dam
CORE WALL
CREST OF NORTH SPILLWAY El. 1581.30'
Fill behind East and West Abutment Walls to wet down with 12% moisture and compacted with pneumatic rammers
PLAN OF NORTH SPILLWAY
Scale 1"=20'
Toe of Dam
℄ Dam Top Dam El. 1584.60'
℄ Road
Dykes Top El. 1584.60
Rock Rip Rap
Bridge
Rubble Concrete
Form this face only
TYPICAL SECTION D.D OF SPILLWAY ABUTMENTS
Scale 1"=10'
Note:- For 'h' See Elevations below.
6"x4" Concrete Curb thru mud
#9 Wire Loops bedded 12" in concrete 12" with ends flared at 2' c/s
Variable - See Elevation below
3'-0" From West End to Station 1+40
2'-0" From Station 1+40 to East End.
TYPICAL SECTION OF CORE WALL
- FOR NORTH SPILLWAY -
Scale 1"=2'
4" Wire bound Rip-Rap
Elwood "X" Fencing
Top of Abutment El. 1584.60'
Anchor Walls See detail below
Core Wall.
SECTION B.B
Scale 1"=10'
Wire Bound Rip-Rap Mat
Vertical Ties of 12' c/s lengths and 10' c/s transverse
Elwood "X" Fencing to be held 6' c/s of fencing to be held 6' c/s
#9 Wire Loops bedded 12" in concrete with ends flared. Pinch Loop at 2' c/s. Tie mat to Loops with #18 - 2 Galv. Annealed Wire ties.
Note: All wire ties to be #12 galvanized annealed wire.
SECTION OF ANCHOR WALLS
Scale 1"=1'
TYPICAL SECTION A.A.
Scale 1"=10'
Anchor Walls
Core Walls.
Form these faces only
SECTION C.C.
Scale 1"=10'
2"x2" Slots inside face of walls
2-15"-45# I Beams 13'-9" long
3"x12" Plank Platform with 3"x12" Toe board bolted to each plank and 2 anchor bolts into concrete walls at each corner.
ELEVATION
PLAN OF BRIDGE AND RETAINING WALLS
Scale 1"=10'
Top of Spillway
Approximate Ground Surface
Bottom of Core Wall
LONGITUDINAL ELEVATION NORTH SPILLWAY CORE WALL
Scale 1"=20'
48.6'
33.2'
23.8'
El. 1584.60'
Bottom of footing El. 1574'
DEVELOPED ELEVATION WEST SPILLWAY ABUTMENT
Scale 1"=10'
Approximate Ground Surface
13.2'
12'
24.6'
El. 1584.60'
Bottom of footing El. 1576'
DEVELOPED ELEVATION EAST SPILLWAY ABUTMENT
Scale 1"=10'
Sheet No 2
PLAN OF NORTH SPILLWAY
WIGGINS HILL DAM
DEVIL CANYON
CITY OF SAN BERNARDINO
CALIFORNIA
OCT. 1938.
CHAS. L. POULKE
CITY ENGINEER