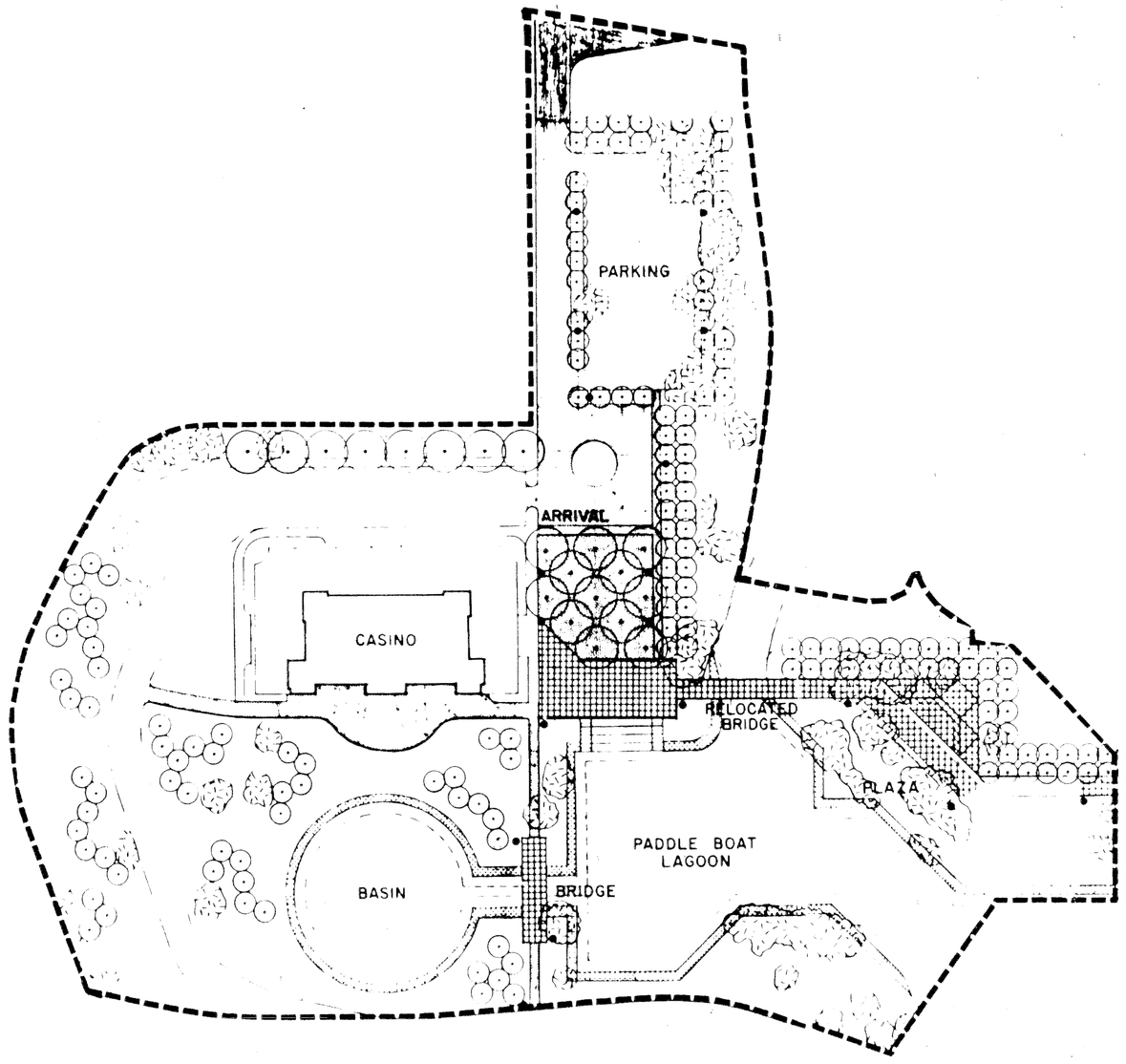
Promenade Rehabilitation

Belle Isle Park

Phase A



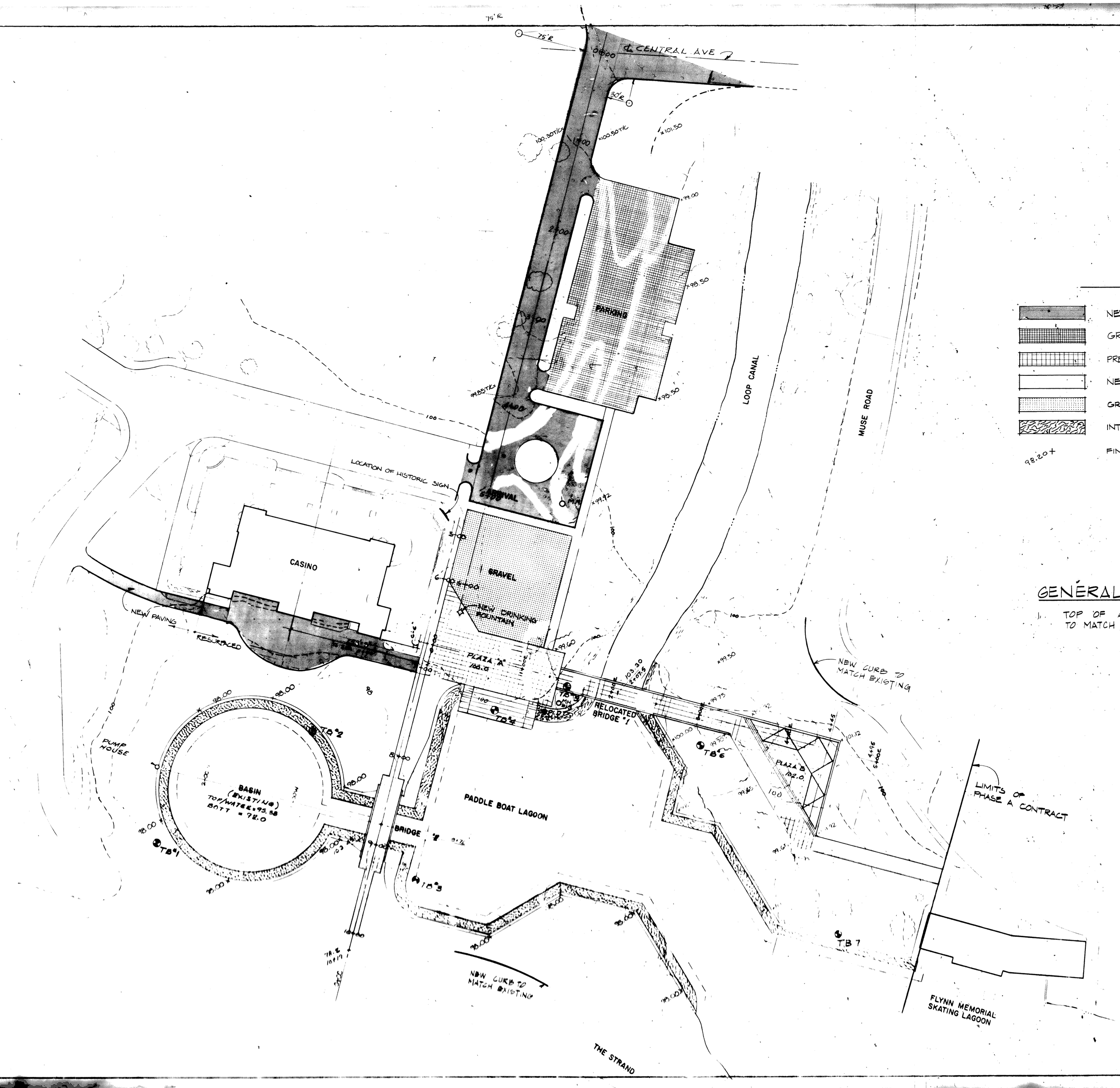
Sheet Schedule

SHEET NO.	DESCRIPTION
	TITLE SHEET
D-1	DEMOLITION
C-1	SITE PLAN
C-2	PARKING AREA
C-3	PLAN & PROFILE - BRIDGE NO. 2
C-4	PLAN & PROFILE - BRIDGE NO. 1
C-5	PADDLE BOAT LAGOON
C-6	DETAILS
S-1	STEPS DETAILS
S-2	GENERAL DRAWING - BRIDGE NO. 2
S-3	ABUTMENT DETAILS - BRIDGE NO. 2
S-4	GENERAL DRAWING - BRIDGE NO. 1
S-5	ABUTMENT DETAILS - BRIDGE NO. 1
S-6	TRELLIS DETAILS
M-1	MECHANICAL
M-2	MECHANICAL DETAILS
E-1	ELECTRICAL
E-2	ELECTRICAL DETAILS
L-1	PLANTING

Recreation Department
Coleman A. Young, Mayor

City of Detroit

Kiley-Walker **Landscape Architects**
Sidney E. Shorter & Assoc. **Engineers**



LEGEND

- NEW BITUMINOUS PAVING
- GRASS PAVING BLOCKS
- PRECAST CONCRETE PAVERS
- NEW CONCRETE WALKWAY
- GRAVEL
- INTERLOCKING CONCRETE RIPRAP
- 98.20+ FINISH GRADE ELEVATION

GENERAL NOTES

1. TOP OF ALL MANHOLES SHALL BE ADJUSTED TO MATCH FINISH GRADE ELEVATIONS.

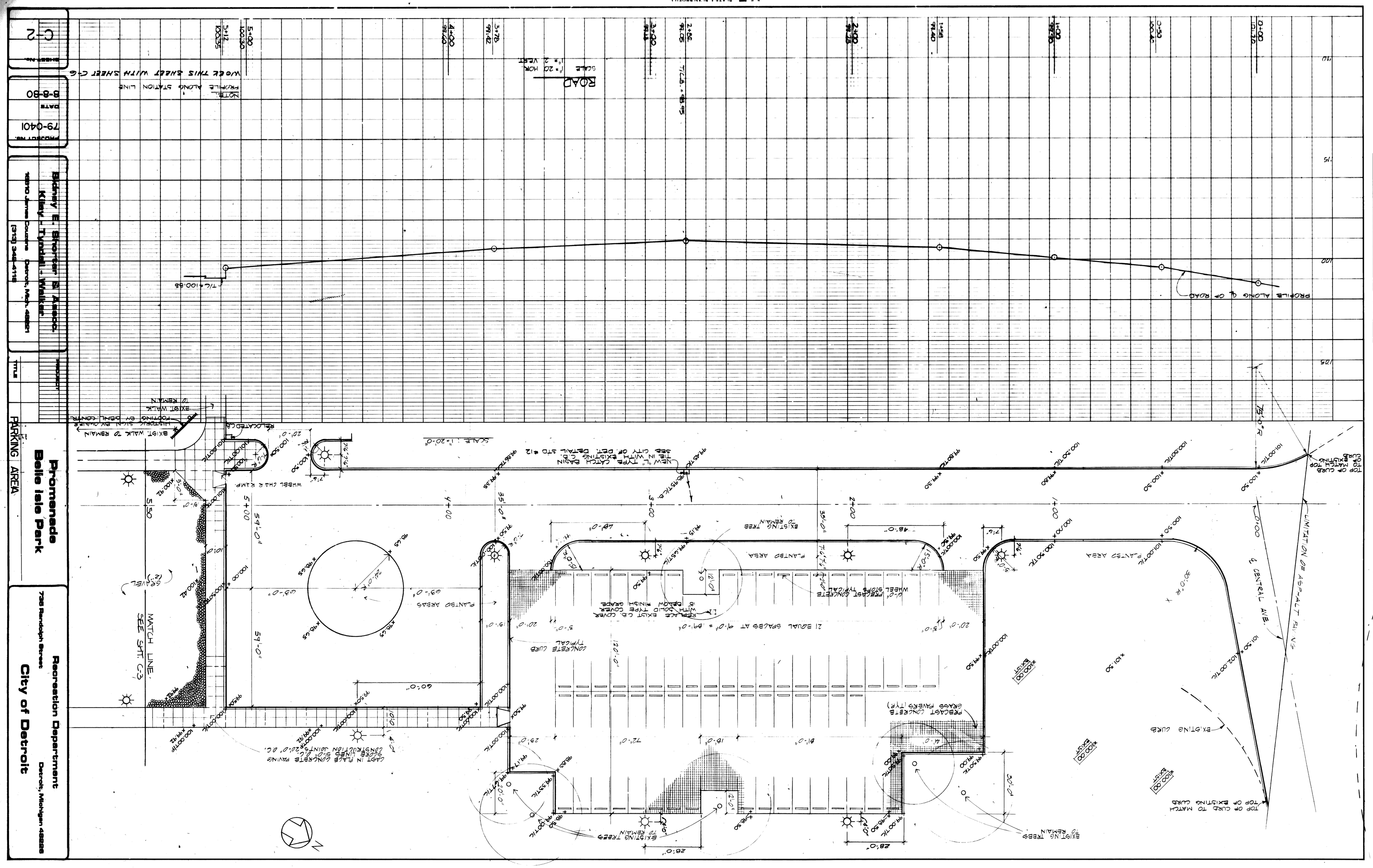
SCALE: 1" = 50'

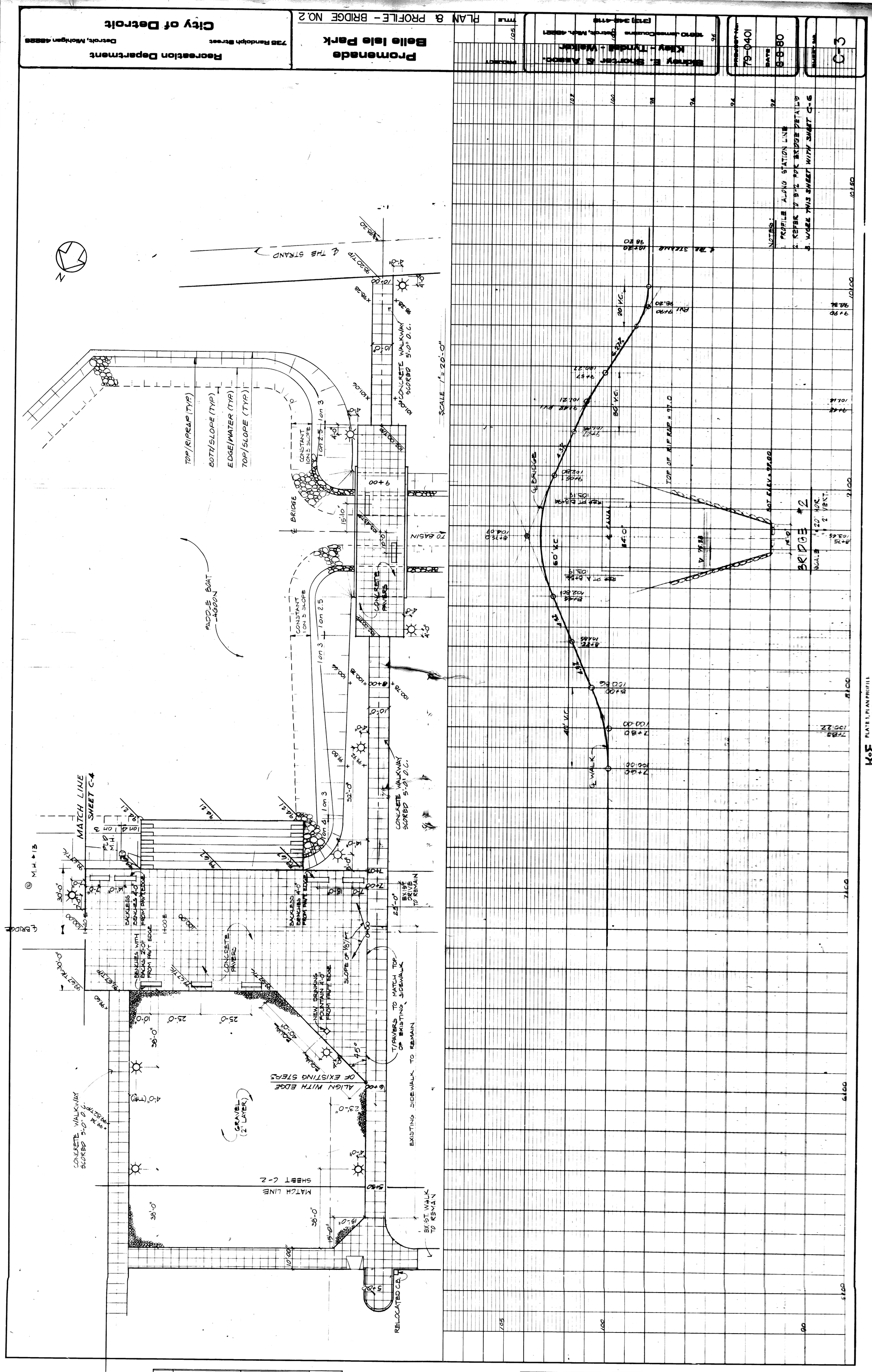
Recreation Department
735 Randolph Street Detroit, Michigan 48226
City of Detroit

PROJECT: **Promenade Belle Isle Park**
TITLE: SITE PLAN

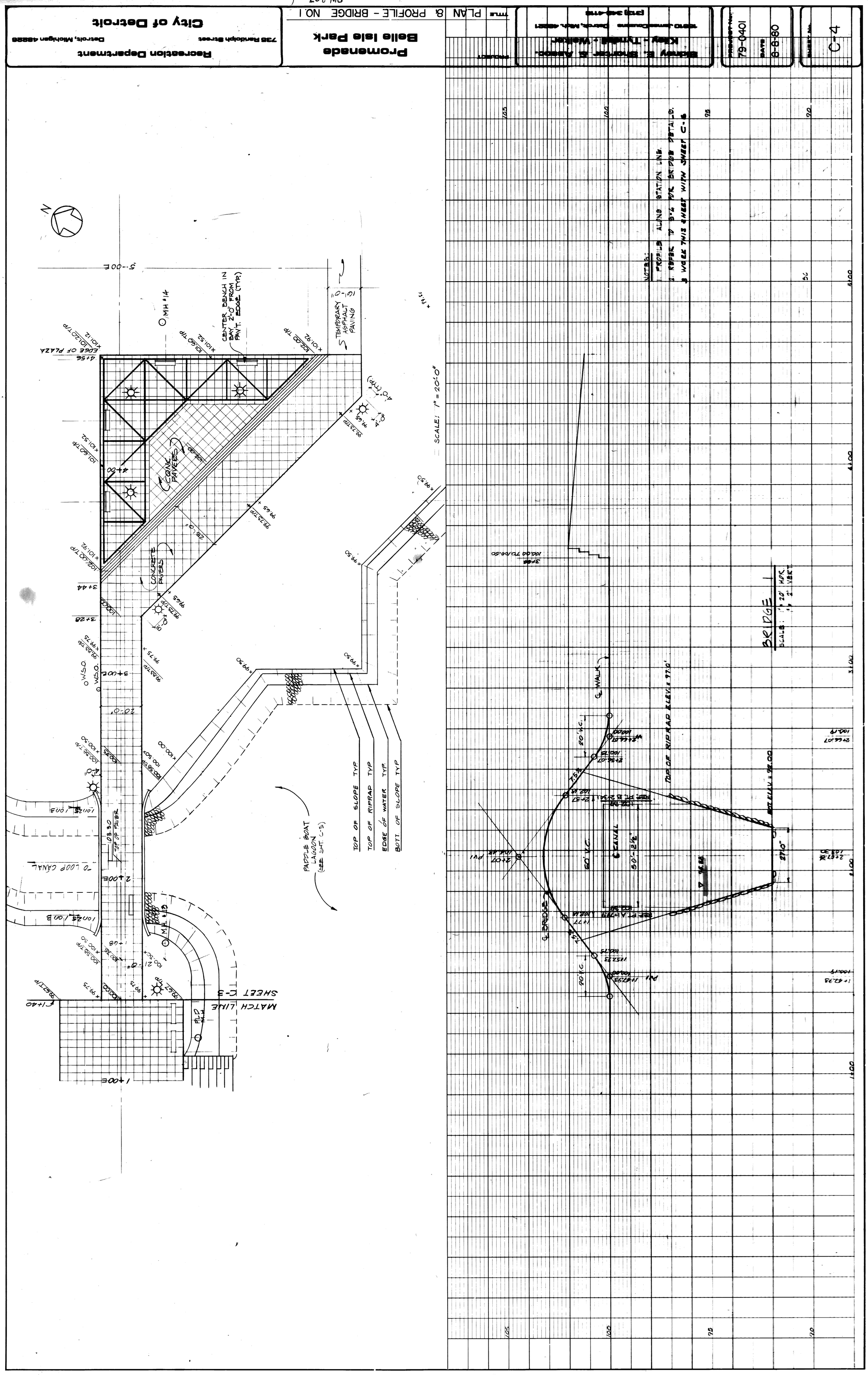
Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16310 James Couzens Detroit, Mich. 48221
(313) 342-4118

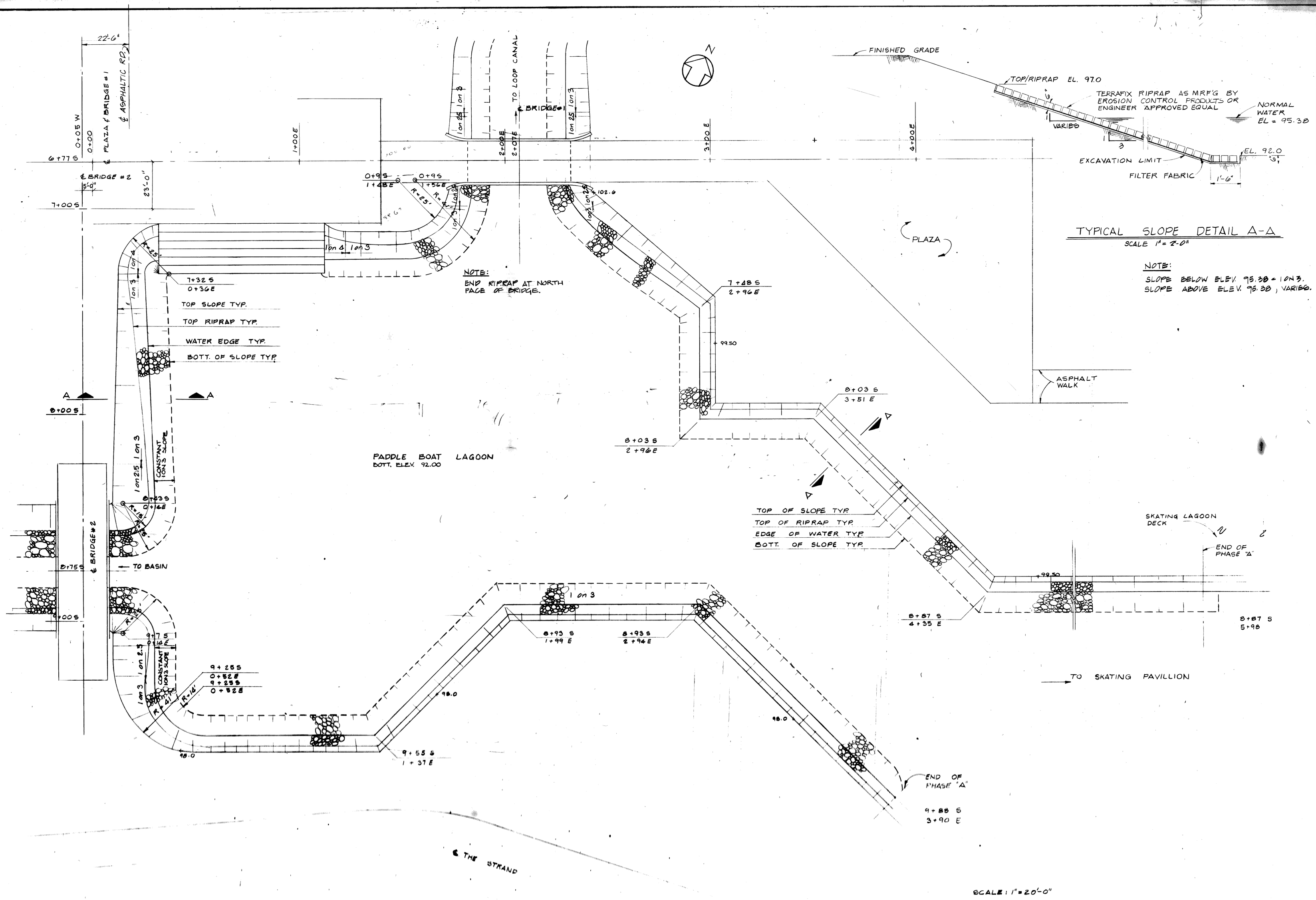
PROJECT No. 79-0401
DATE 8-8-80
SHEET No. C-1


PROFILE
PROFILE ALONG ℄ OF ROAD
ROAD
SCALE 1" = 20' VERT.
NOTE: PROFILE ALONG STATION LINE
WORK THIS SHEET WITH SHEET C-6
PLAN
SCALE 1" = 20'-0"
PARKING AREA
Promenade
Belle Isle Park
Recreation Department
735 Randolph Street
Detroit, Michigan 48226
City of Detroit
Bidney E. Ehorsar & Assoc.
Kilby, Tyndall, Walker
18810 Jamie Douglas Detroit, Mich. 48221
(313) 348-4118
79-0401
8-8-80
C-2
SHEET NO.
PROJECT NO.
DATE
TITLE
PROFILE
NOTE BOOK
PLAN
NOTE BOOK
LIMITATION OF ASPHALT PAVING
℄ CENTRAL AVE.
PLANTED AREA
PLANTED AREAS
EXISTING TREES TO REMAIN
EXISTING CURB
TOP OF CURB TO MATCH
TOP OF CURB TO MATCH TOP OF EXISTING CURB
EXISTING TREES TO REMAIN
PRECAST CONCRETE GRASS PAVERS (TYP)
21 EQUAL SPACES AT 9'-0" = 189'-0"
CONCRETE CURB TYPICAL
MATCH LINE SEE SHT. C-3
GRAVEL (2")
EXIT WALK TO REMAIN
EXISTING SIGN BY OWNER FOLLOWING BY DETAIL CONTR.
WHEEL CHAIR RAMP
NEW "L" TYPE CATCH BASIN TIE IN WITH EXISTING C.B.
SEE CITY OF DET. DETAIL STD #12
CAST IN PLACE CONCRETE PAVING SCORE LINES 5'-0" O.C. CONSTRUCTION JOINTS 20'-0" O.C.
PRECAST CONCRETE WHEEL STOPS TYPICAL
REPLACE EXIST C.B. COVER WITH DOUBLE TYPE COVER TO BELOW FINISH GRADE
EXISTING TREES TO REMAIN


Sidney E. Shortear & Assoc.
Kley - Tyndall - Walker
1520 Jefferson Avenue Detroit, Mich. 48207
(313) 343-4110
PROJECT
Promenade
Belle Isle Park
Recreation Department
City of Detroit
PLAN & PROFILE - BRIDGE NO. 2
TITLE
PROJECT No. 79-0401
DATE 8-8-80
SHEET No. C-3
NOTES:
1. PROFILE ALONG STATION LINE
2. REFER TO 9-12 PDK BRIDGE DETAILS
3. WORK THIS SHEET WITH SHEET C-6
BRIDGE #2
SCALE 1" = 20' HOR. 2' VERT.
SCALE 1" = 20'-0"
TOP/RIPRAP (TYP.)
BOTT/SLOPE (TYP)
EDGE/WATER (TYP)
TOP/SLOPE (TYP.)
PADDLE BOAT LAGOON
CONCRETE WALKWAY SCORED 5'-0" O.C.
CONCRETE PAVERS
MATCH LINE SHEET C-4
MATCH LINE SHEET C-2
GRAVEL (2" LAYER)
EXISTING SIDEWALK TO REMAIN
RELOCATED C.B.
EXIST. WALK TO REMAIN
TOP OF RIP RAP = 97.0
BOT. ELEV. = 92.00
PLATE 1, PLAN PROFILE
KEUFFEL & ESSER CO.
48 7024 MADE IN U.S.A.
PLAN
NOTE BOOK
No.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE
PROFILE
NOTE BOOK
No.
SURVEYED
PLOTTED
GRADES CHECKED
B. M.'S NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE

BW 207


Recreation Department
735 Randolph Street
Detroit, Michigan 48226
City of Detroit
Promenade
Belle Isle Park
PLAN & PROFILE - BRIDGE NO. 1
Sidney E. Shepherd & Assoc.
Kelly - Tyndall - Walker
PROJECT
79-0401
DATE
8-8-80
SHEET No.
C-4
NOTES:
1. PROFILE ALONG STATION LINE.
2. REFER TO B-4 FOR BRIDGE DETAILS.
& WORK THIS SHEET WITH SHEET C-5
SCALE: 1" = 20'-0"
BRIDGE 1
SCALE: 1" = 20' HOR.
1" = 2' VERT.
TOP OF SLOPE TYP
TOP OF RIPRAP TYP
EDGE OF WATER TYP
BOTT. OF SLOPE TYP
PADDLE BOAT LAGOON (SEE SHT. C-5)
MATCH LINE SHEET C-3
TO LOOP CANAL
CONC PAVERS
CONCRETE PAVERS
CENTER BENCH IN BAY 2'-0" FROM PAVT. EDGE (TYP.)
TEMPORARY 10'-0" ASPHALT PAVING
EDGE OF PLAZA
TOP OF RIPRAP ELEV. = 97.0'
BOTTOM ELEV. = 92.00
CANAL
BRIDGE
WALK
PLATE 1, PLAN & PROFILE
KRUPPEL & KNOX CO.
48 7024 MADE IN U.S.A.
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
S. M.'s NOTED
STRUCTURE NOTATIONS CHECKED
NOTE BOOK No.
BY
DATE
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK No.
BY
DATE



TYPICAL SLOPE DETAIL A-A

SCALE 1" = 2'-0"

NOTE:

SLOPE BELOW ELEV. 95.38 = 1 ON 3.
SLOPE ABOVE ELEV. 95.38, VARIES.

Recreation Department
Detroit, Michigan 48226
735 Randolph Street
City of Detroit

PROJECT: Promenade Belle Isle Park

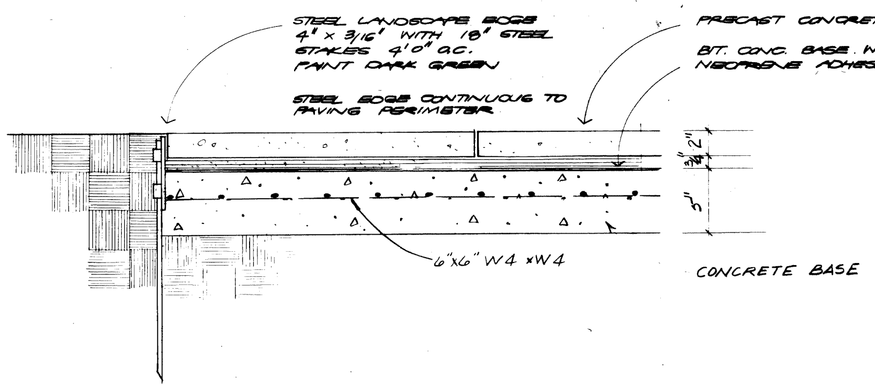
TITLE: PADDLE BOAT LAGOON

Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16310 James Couzens Detroit, Mich. 48221
(313) 342-4118

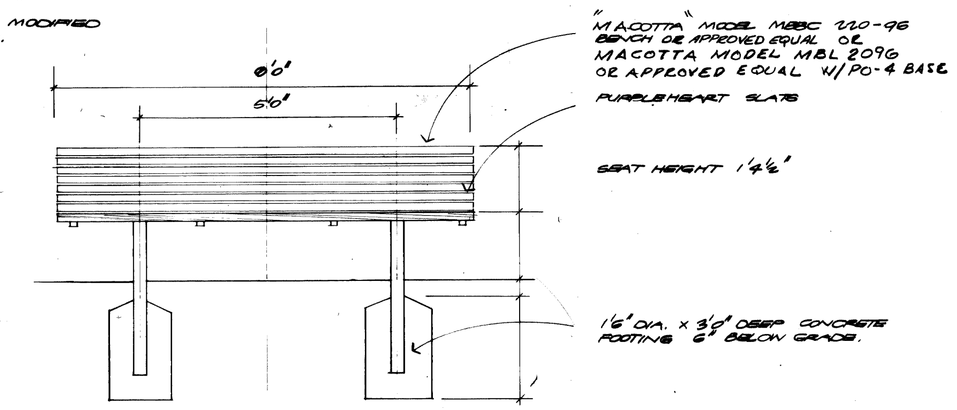
PROJECT No. 79-0401

DATE 8-8-80

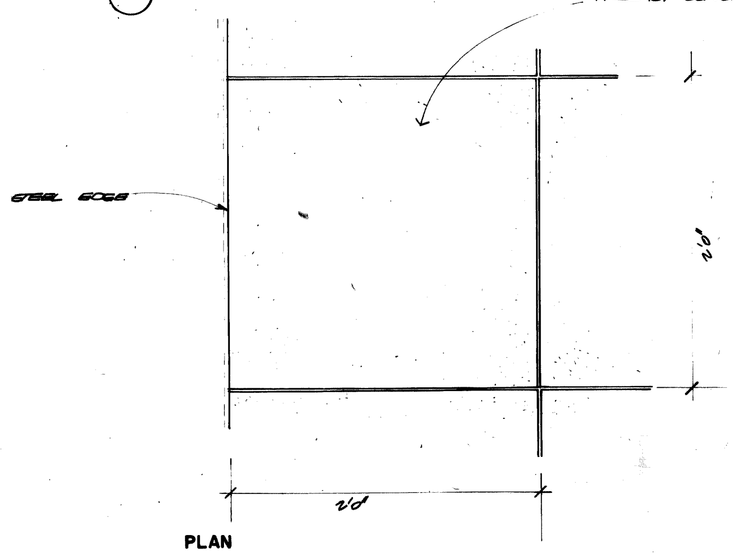
SHEET No. C-5



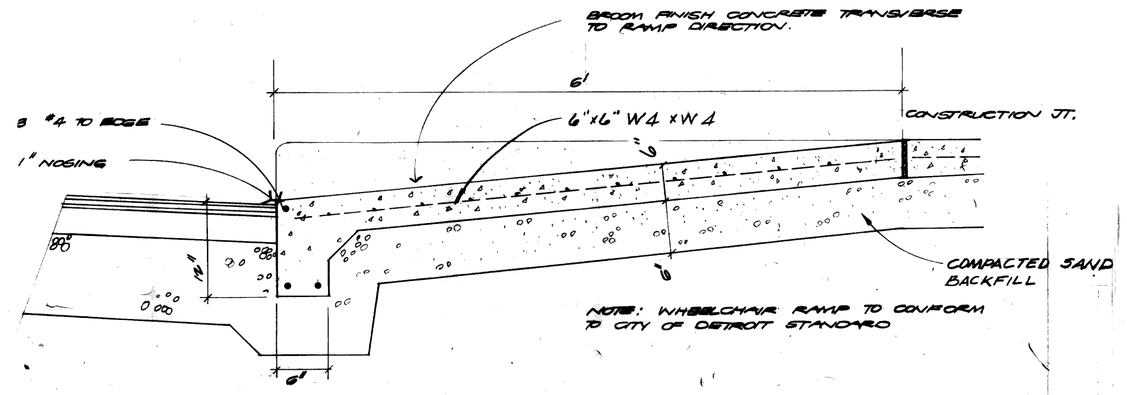
PRECAST CONCRETE PAVING SECTION



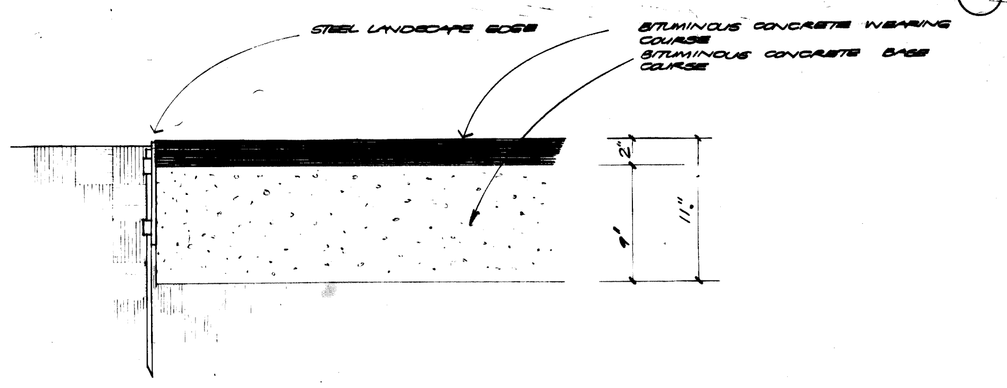
BENCH DETAIL



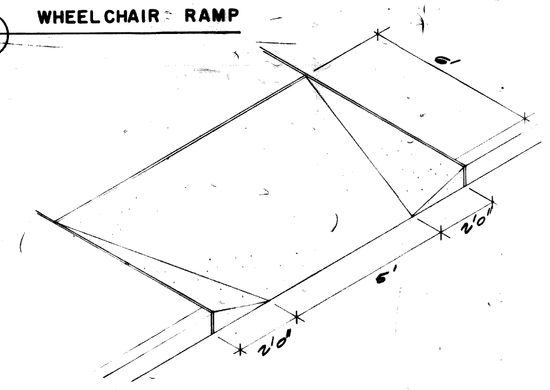
PLAN



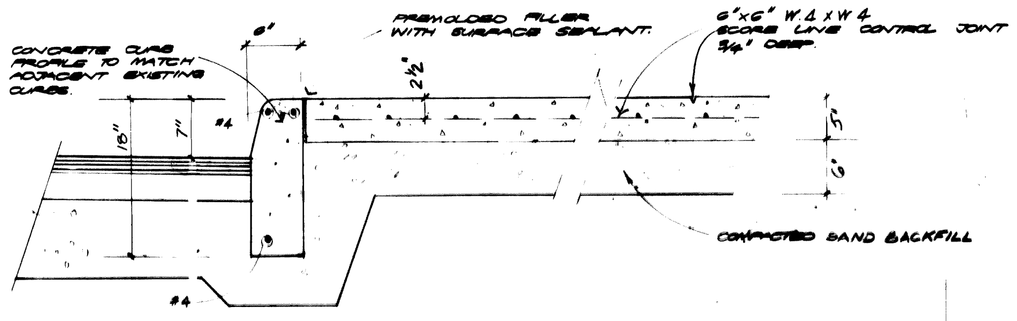
WHEELCHAIR RAMP



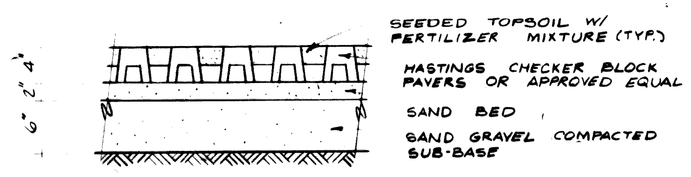
BITUMINOUS CONCRETE PAVING - ROADS.



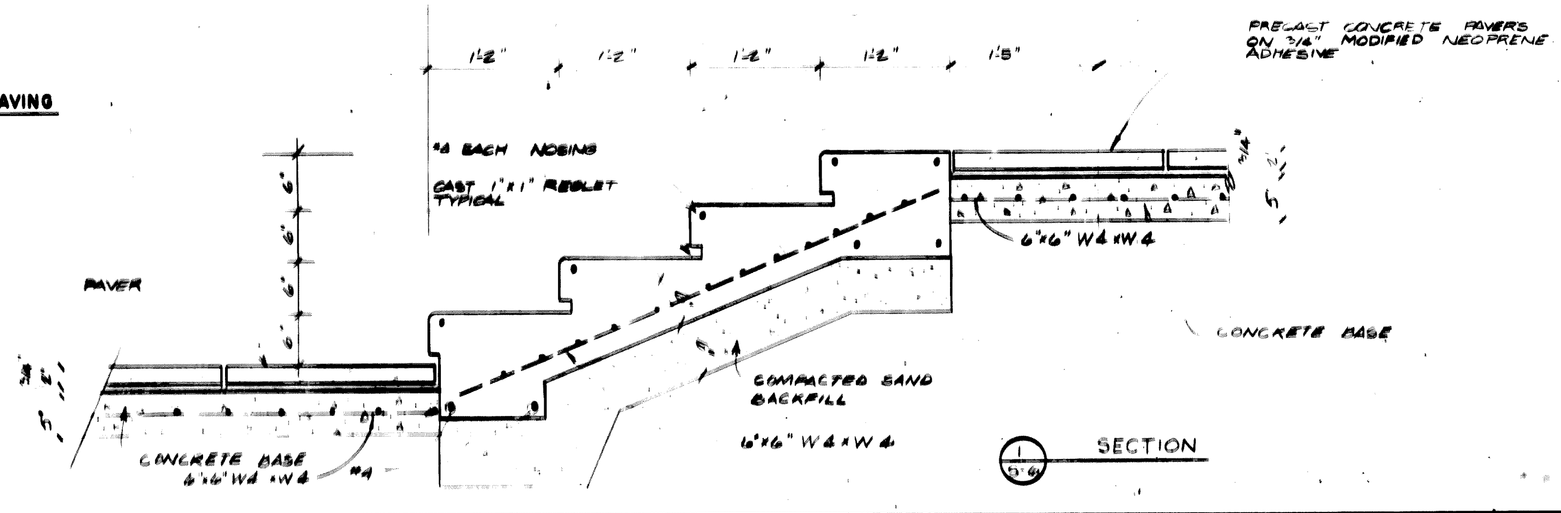
DETAIL



CONCRETE CURB - CONCRETE PAVING



PARKING PAVERS CROSS SECTION



SECTION

Recreation Department
735 Randolph Street Detroit, Michigan 48226
City of Detroit

PROJECT
Promenade
Belle Isle Park

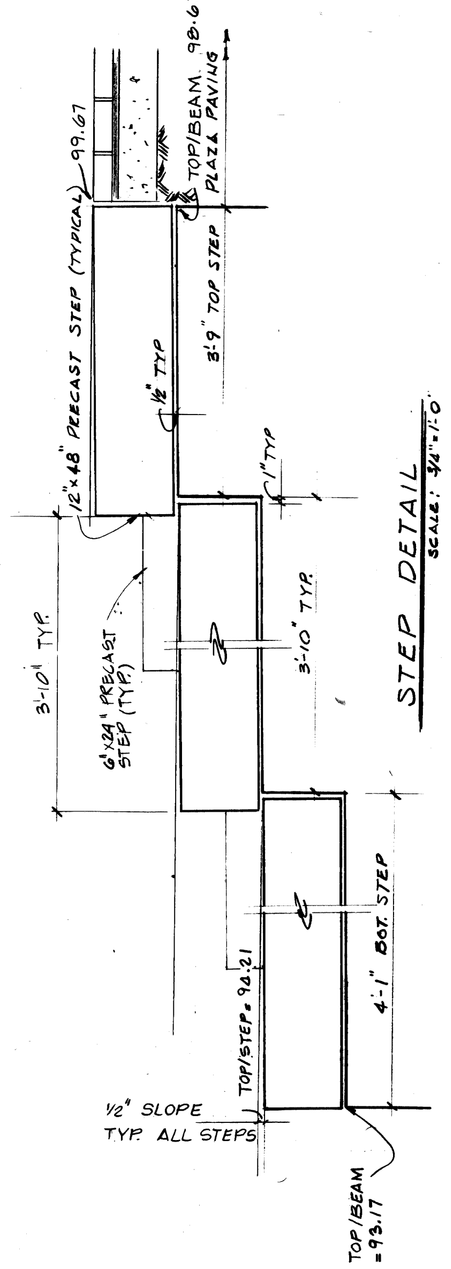
TITLE
DETAILS

Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16810 James Couzens Detroit, Mich. 48221
(313) 342-4118

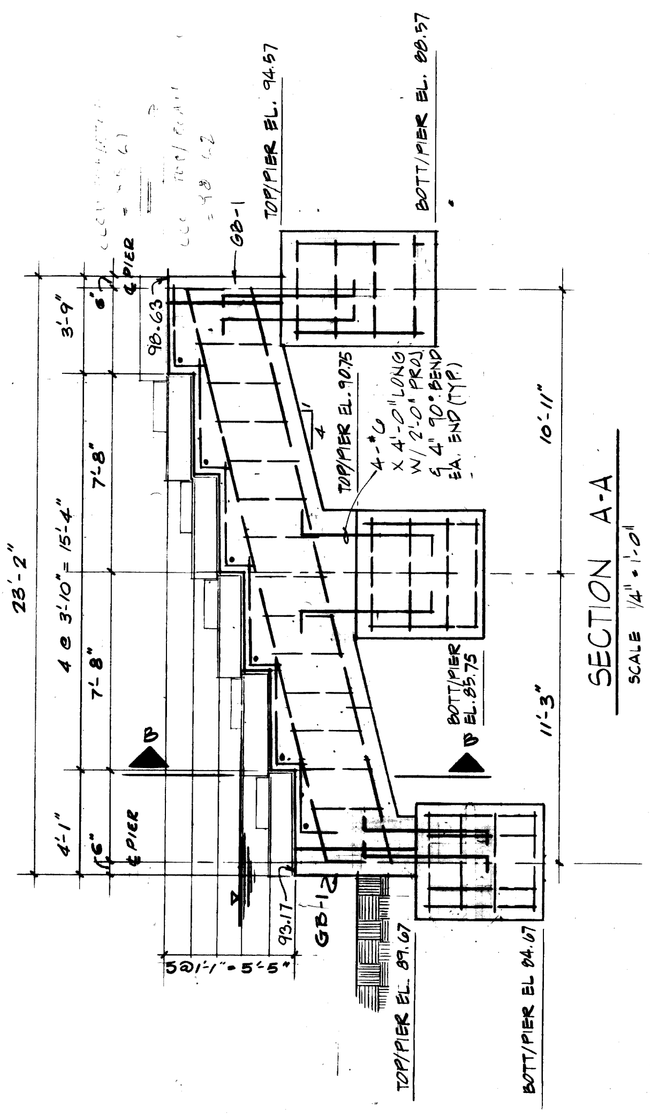
PROJECT No.
79-0401

DATE
8-8-80

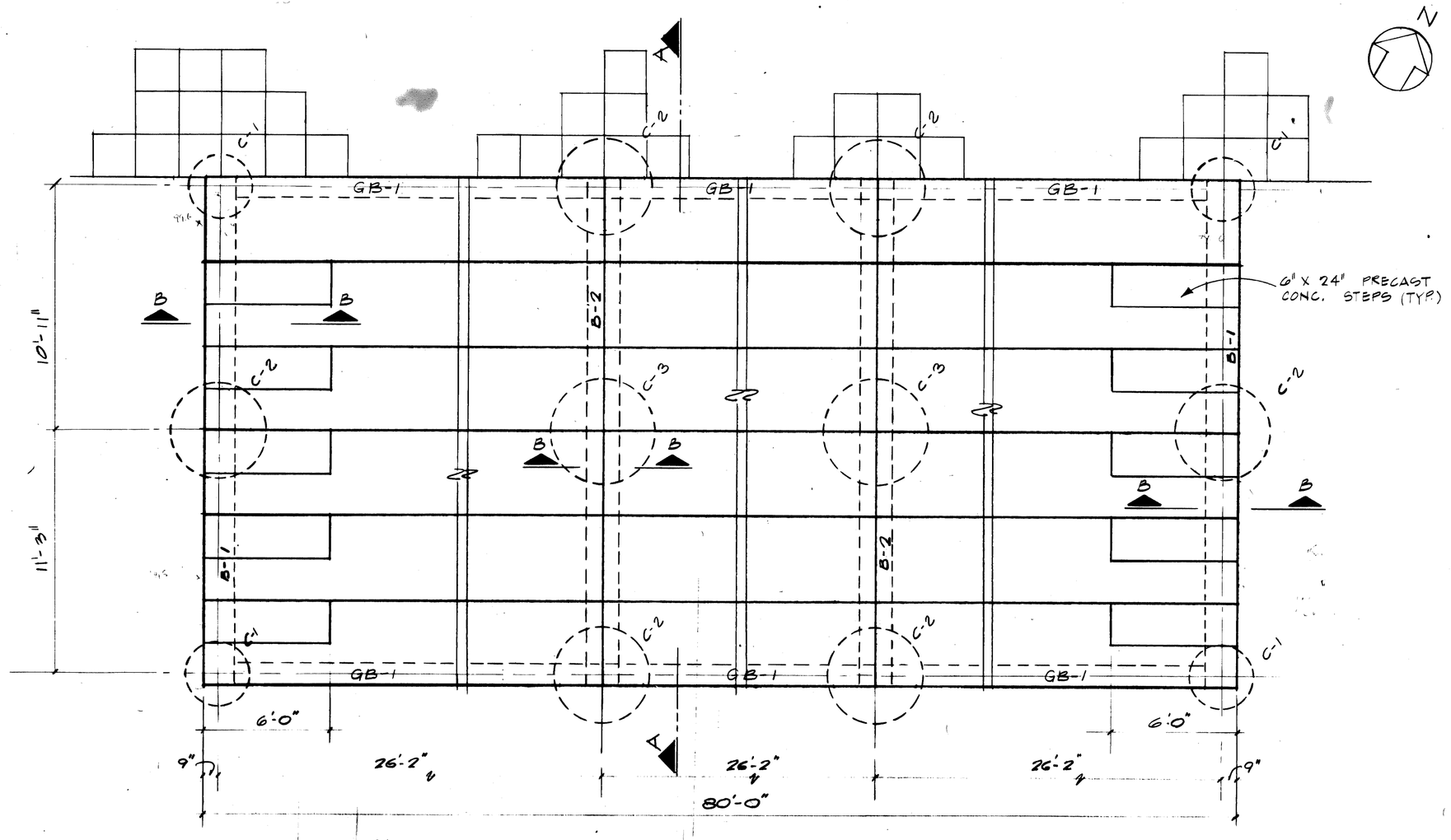
SHEET No.
C-6



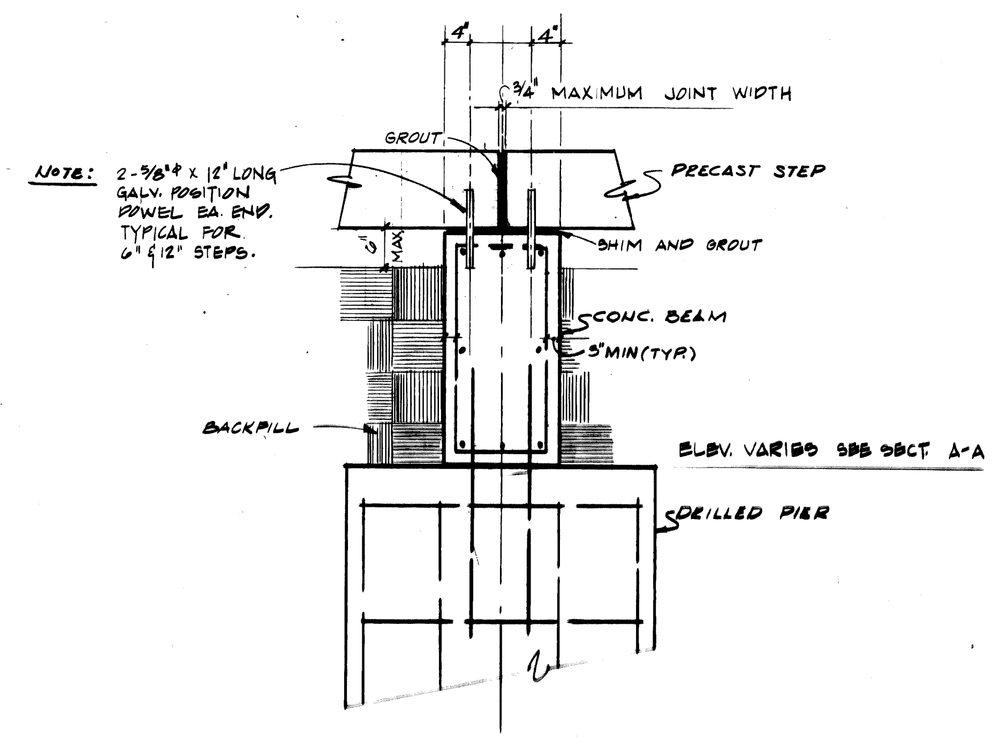
STEP DETAIL
SCALE: 3/4"=1'-0"



SECTION A-A
SCALE 1/4" = 1'-0"



PLAN
SCALE 1/4"=1'-0"



NOTE: 2-3/8"ϕ x 12" LONG GALV. POSITION DOWEL EA END. TYPICAL FOR 6"&12" STEPS.

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

NOTE:
FOR PIER REINFORCEMENT, SEE SCHEDULE

DRILLED PIER SCHEDULE

MARK	C-1	C-2	C-3		
LOAD TO PIER	42K	85K	127K		
PIER SIZE	3'-3" Dia.	4'-6" Dia.	5'-6" Dia.		
VERTICAL REINF.	6-[illegible]				
TIES	#3 @ 18"	#4 @ 18"	#4 @ 18"		

CONCRETE BEAM SCHEDULE

MARK	SHAPE	SIZE b×d	BOTT. REINF.	TOP REINF. DIRC. END	TOP REINF. INT. SUPP.	ARRANGEMENT	STIRRUPS EA. END	REMARKS
B-1		18×42	3-#8	3-#8	3-#8		#3 @ 1'-6"	
B-2		18×42	3-#8	3-#8	3-#8		#3 @ 1'-6"	
GB-1		12×42	3-#7	3-#7	3-#7		#3 @ 1'-6"	

GENERAL NOTES

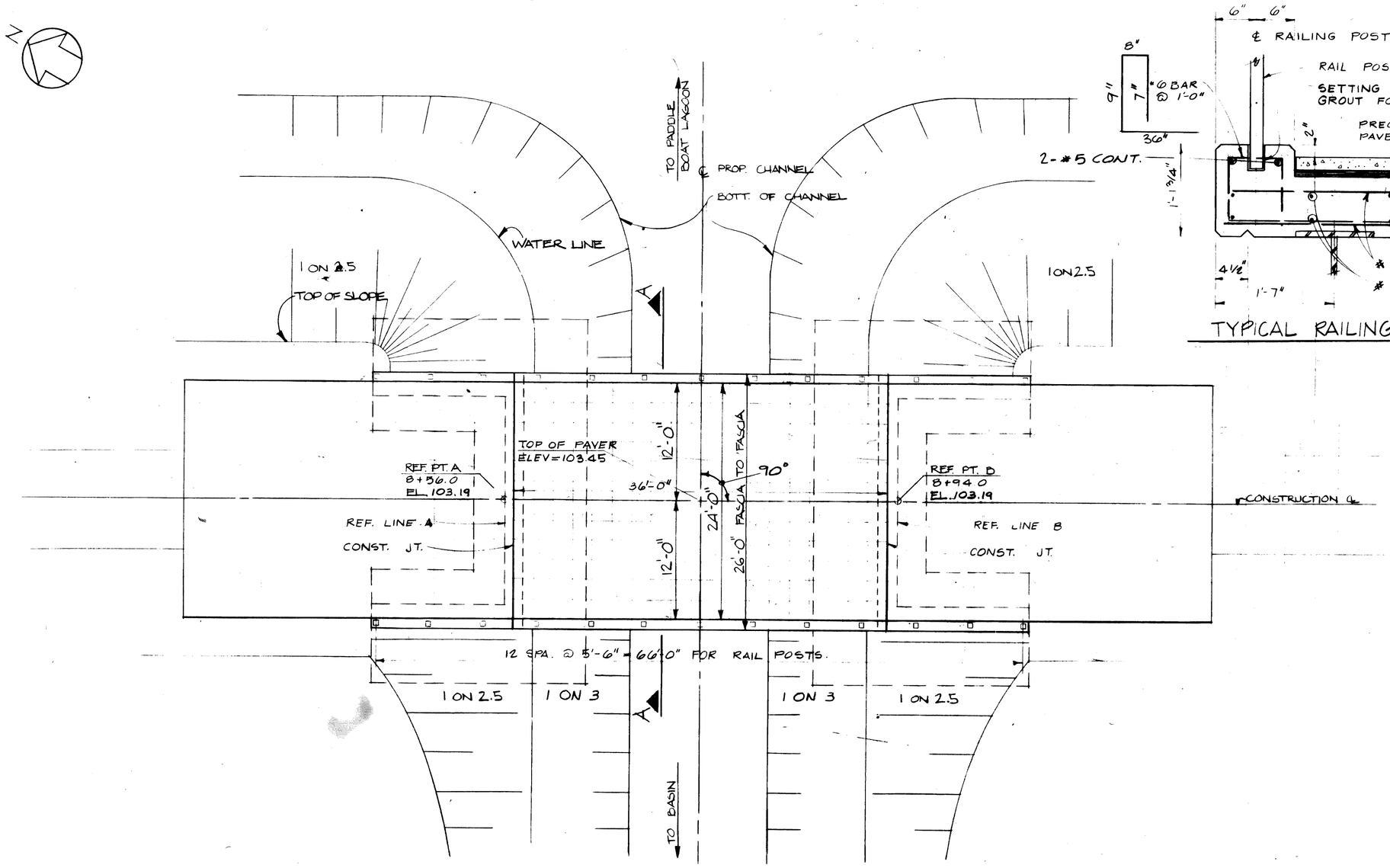
1. DESIGN LIVE LOAD 100 psf
2. MAXIMUM SOIL BEARING CAPACITY ASSUMED AS 6000 psf. PIERS SHALL BE FOUNDED ON A SOIL STRATA OF THE ABOVE VALUE AND VERIFIED BY THE SOILS ENGINEER.
3. MINIMUM 28 DAY CONCRETE STRENGTH f'_c = 4000 PSI
   MINIMUM REINFORCEMENT YIELD STRENGTH f_y = 60,000 PSI
4. PRECAST STEPS SHALL BE SET TRUE TO A HORIZONTAL AND VERTICAL ALIGNMENT ON DOWELS. SHIM AS REQUIRED AND GROUT TO MATCH THE PRECAST FINISH AND COLOR.
5. ALL CONSTRUCTION SHALL CONFORM WITH THE ACI MANUAL OF CONCRETE PRACTICE - LATEST EDITION.
6. CONCRETE FINISH: 12"x48" STEP - LIGHT SANDBLAST
   6"x24" STEP - NONSLIP BROOM

Recreation Department
735 Randolph Street Detroit, Michigan 48226
City of Detroit

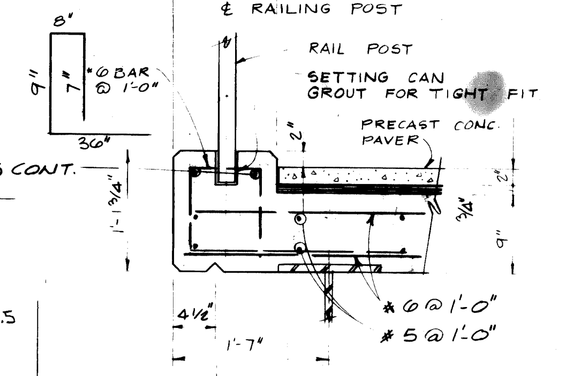
PROJECT: Promenade Belle Isle Park
TITLE: STEPS DETAILS

Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16670 James Couzens Detroit, Mich. 48221 (313) 342-4118

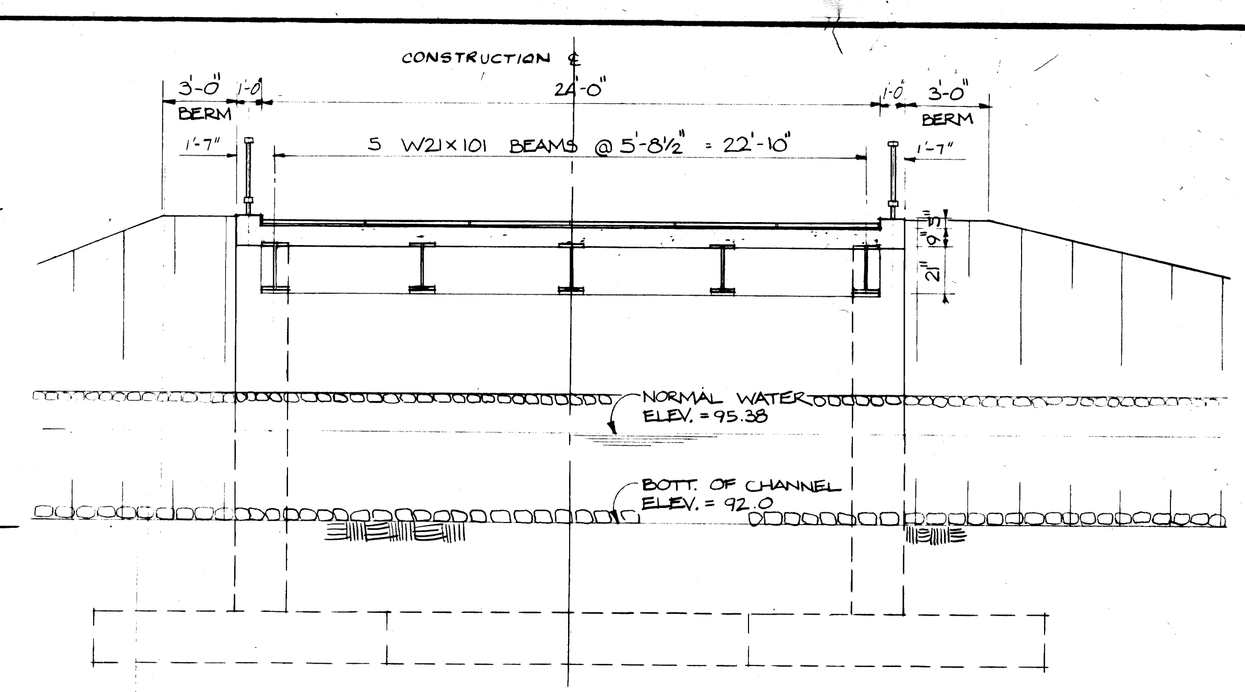
PROJECT No. 79-0401
DATE 8-8-80
SHEET No. S-1



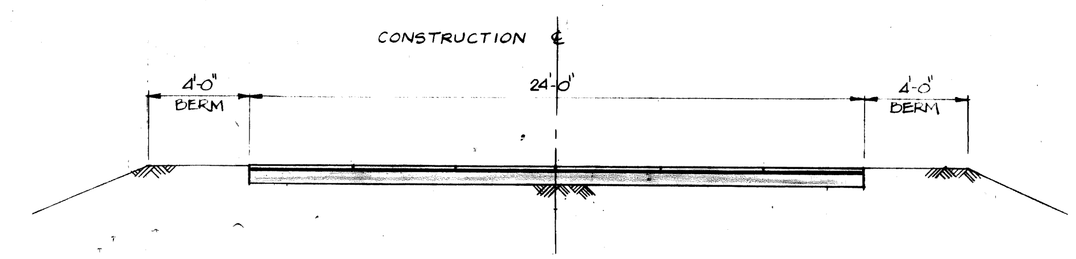
PLAN
SCALE 1/8" = 1'-0"



TYPICAL RAILING DETAIL

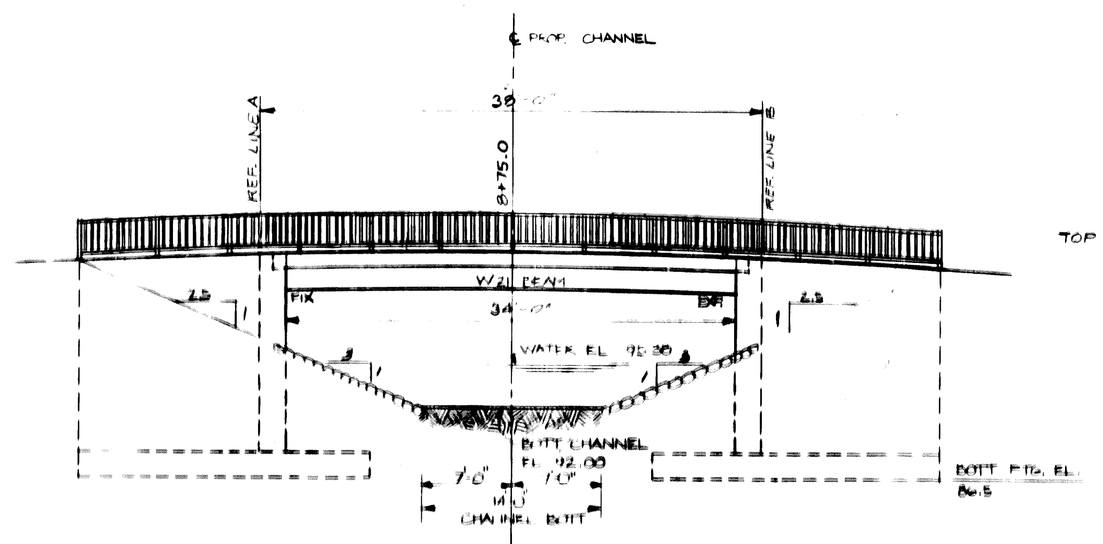


SECTION A-A
SCALE 1/4" = 1'-0"

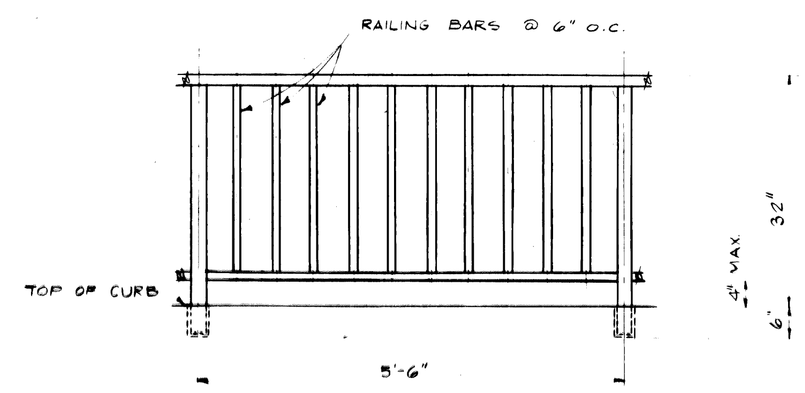


TYPICAL APPROACH SECTION
SCALE 1/4" = 1'-0"

NOTE:
SEE PRECAST CONCRETE PAVING SECTION SHT. C-6.



ELEVATION
SCALE 1/8" = 1'-0"



TYPICAL RAILING SPAN
BY RAILTEC OR APPROVED EQUAL

WORK THIS SHEET W/ SHT. C-3

GENERAL NOTES

1. DESIGN LIVE LOAD : DPW VEHICLE
   12,000^{k} — 14'-0" — 34,000^{k} (AXLE SPACING); 6'-0" (WHEEL SPACING)
2. MINIMUM SOIL BEARING CAPACITY ASSUMED AS 2500 psf. FOOTING ELEVATIONS SHOWN ARE APPROXIMATE. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OF THE CAPACITY ASSUMED AND SHALL BE VERIFIED BY THE SOILS ENGINEER.
3. MINIMUM 28 DAY CONCRETE STRENGTH
   f'_c = 4000 psi DECK
   = 3500 psi ABUTMENTS
   MINIMUM STEEL REINFORCEMENT YIELD STRENGTH F_y = 60000
   STRUCTURAL STEEL ASTM A36.
4. ALL BRIDGE CONSTRUCTION SHALL CONFORM TO THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - 1979 EDITION UNLESS OTHERWISE ALLOWED BY THE ENGINEER.
5. BEAM CAMBER IS TO BE 3" PERMANENT AND OF A PARABOLIC TYPE.
6. THE OLD BRIDGE RAILING AND LOWER GRILLAGE ARE OF HISTORIC IMPORTANCE AND THE CONTRACTOR SHALL EXHIBIT EXTREME CARE IN THE REMOVAL, REPAIR AND RE-INSTALLATION OF BAMB. REINFORCEMENT OF THE RAILING AND GRILLAGE IS OF NECESSITY SUBJECT TO FIELD CONDITIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
8. ADEQUATE TEMPORARY SHORING SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION UNTIL STRUCTURE IS COMPLETE.
9. ALL MATERIAL USED FOR BEARING, WITH EXCEPTION OF PORTIONS WELDED TO BEAMS, SHALL BE BLAST CLEANED AND GALVANIZED, IN ACCORDANCE WITH ASTM A-123, EXCEPT THAT POSITION DOWELS AND ANCHOR BOLTS, INCLUDING NUTS AND WASHERS, SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

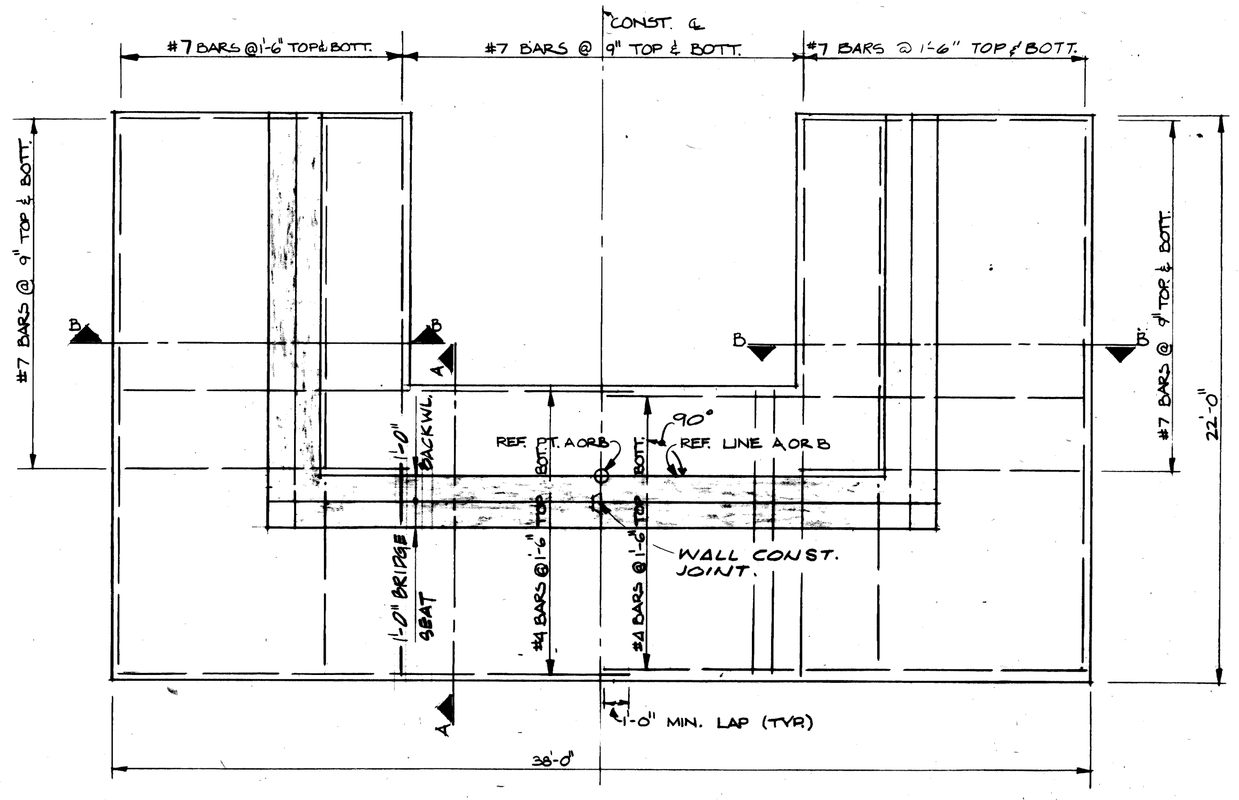
Recreation Department
735 Randolph Street Detroit, Michigan 48226
City of Detroit

PROJECT **Promenade Belle Isle Park**
TITLE GENERAL DRAWING - BRIDGE NO. 2

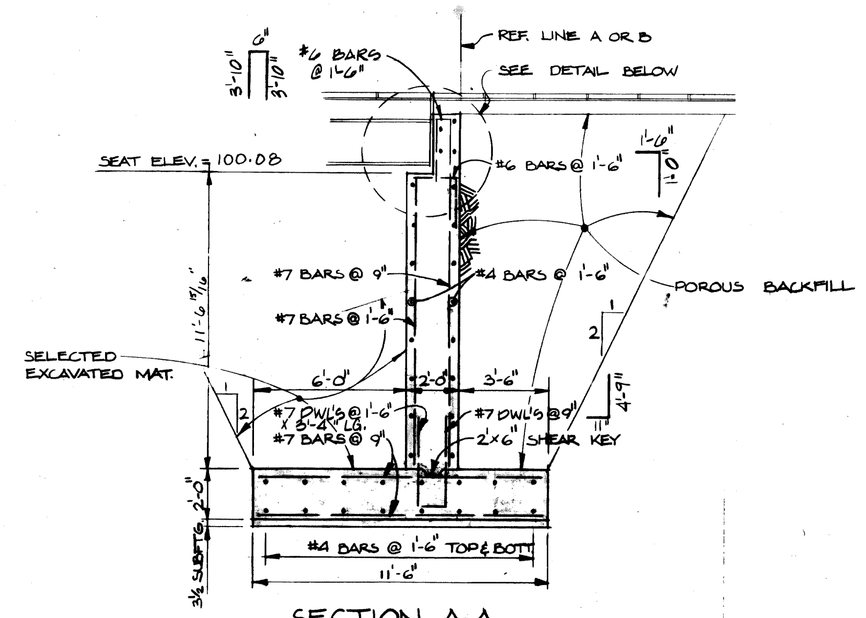
Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16810 James Couzens Detroit, Mich. 48221
(313) 342-4118

PROJECT No. 79-0401
DATE 8-8-80
SHEET No. S-2

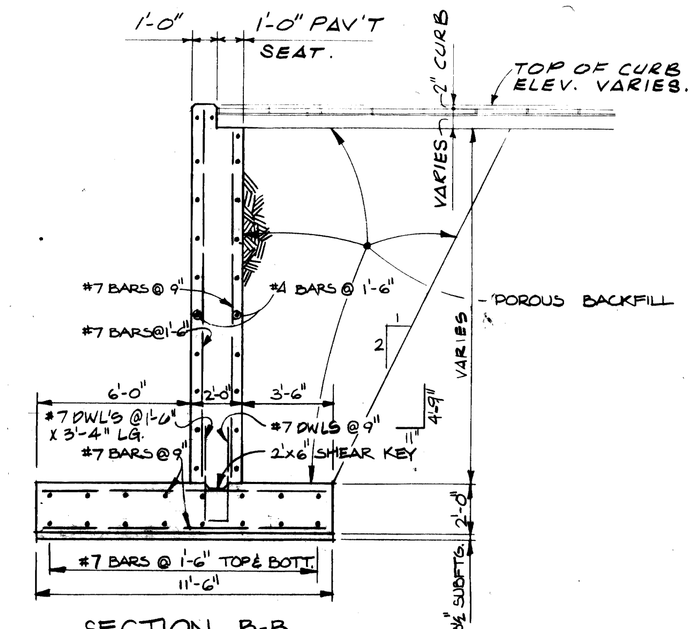
10



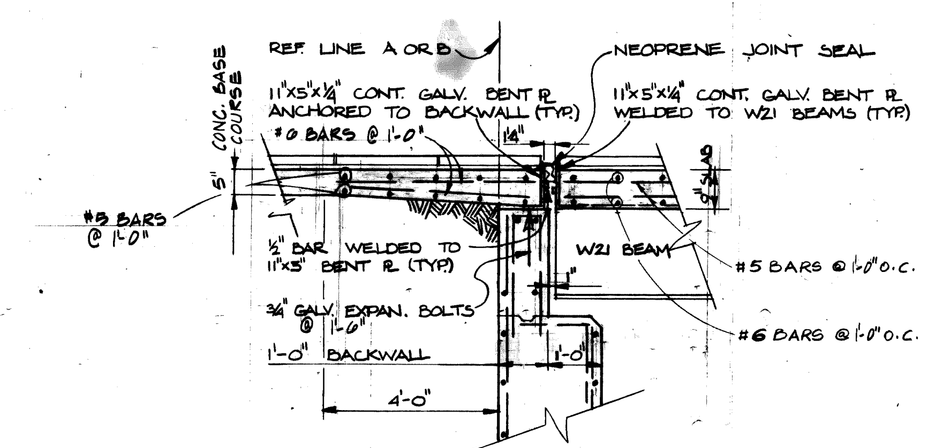
PLAN
SCALE 1/4" = 1'-0"



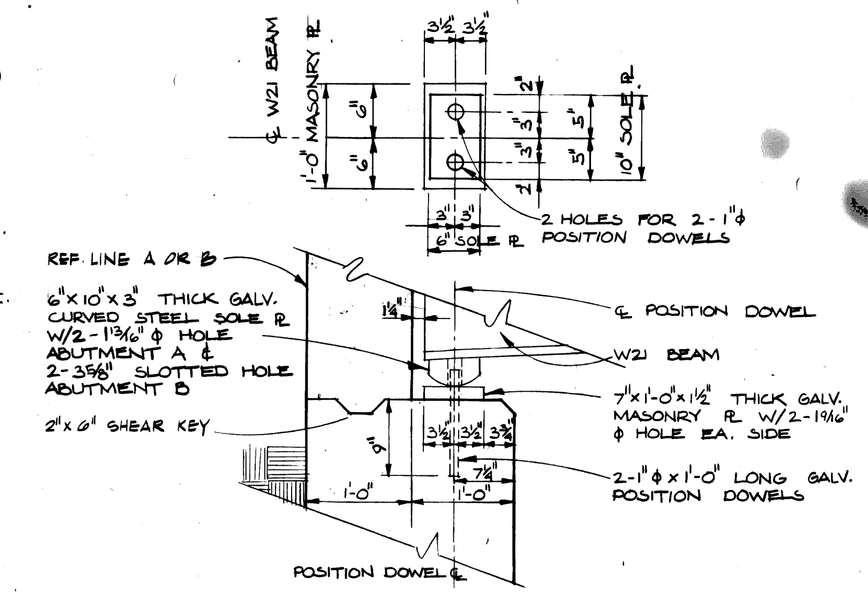
SECTION A-A
SCALE 1/4" = 1'-0"



SECTION B-B
SCALE 1/4" = 1'-0"

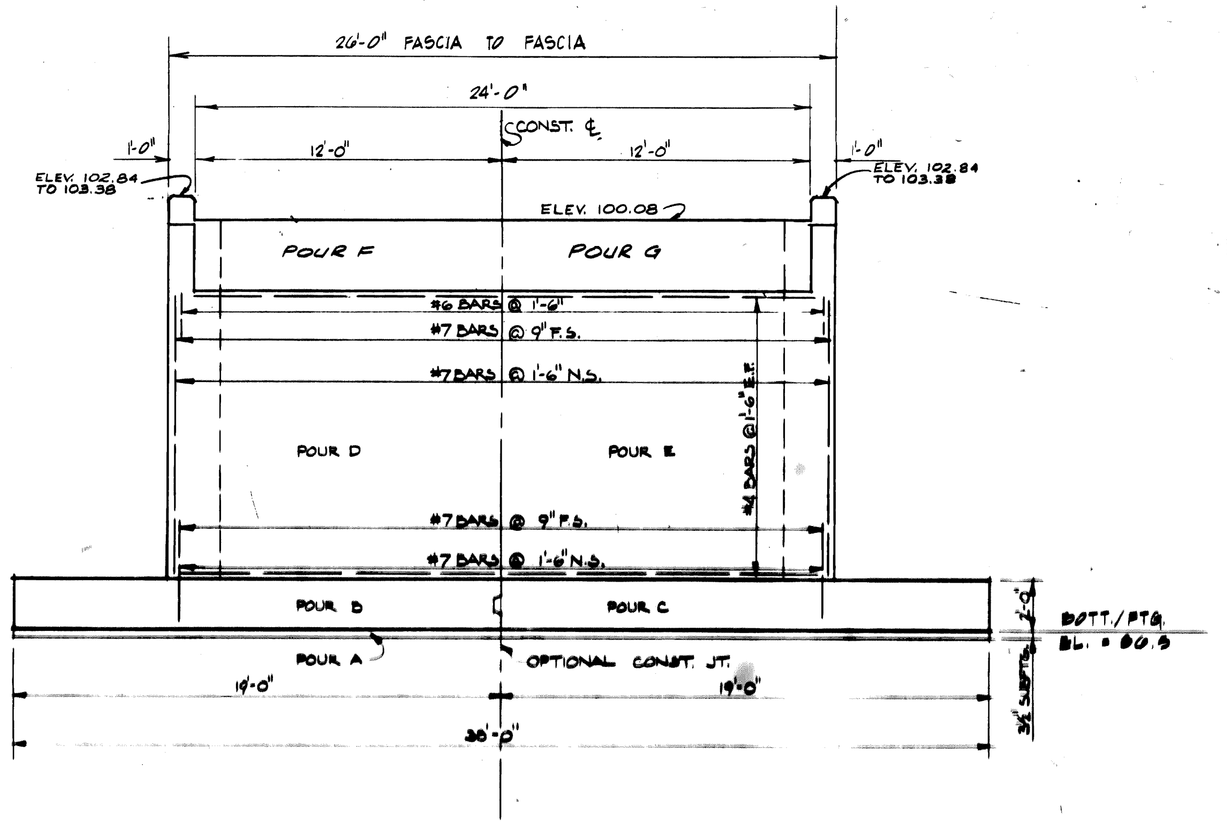


TYPICAL SECTION THRU BACKWALL
SCALE 1/2" = 1'-0"

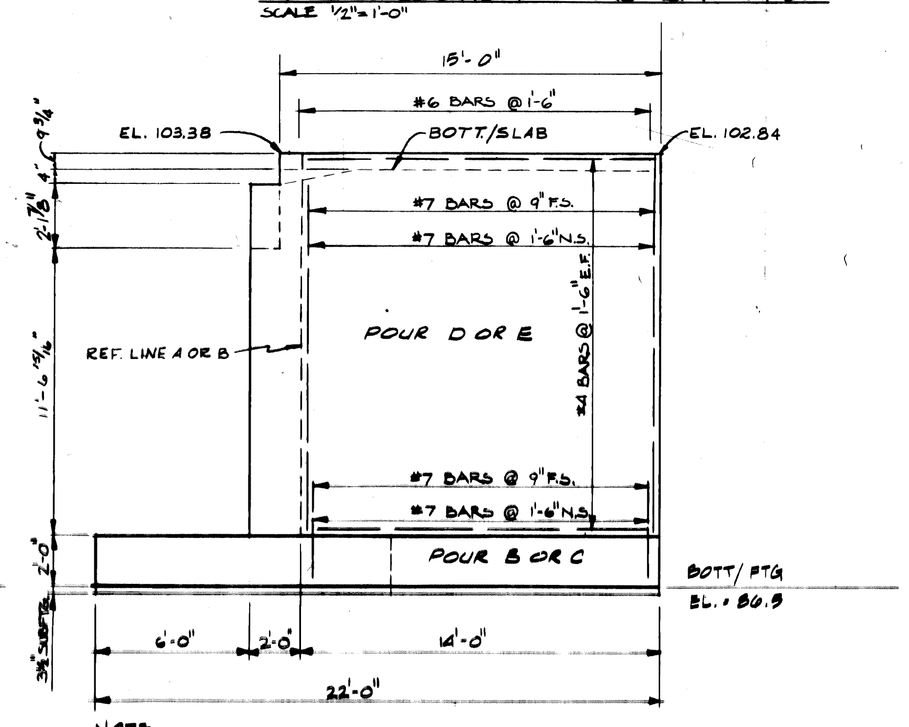


TYPICAL SEAT DETAIL
SCALE 1" = 1'-0"

NOTE:
PROVIDE 1" CHAMFER FOR ALL EXPOSED CONC. EDGES U.O.N. (TYP. FOR BRIDGE #1 & BRIDGE #2)

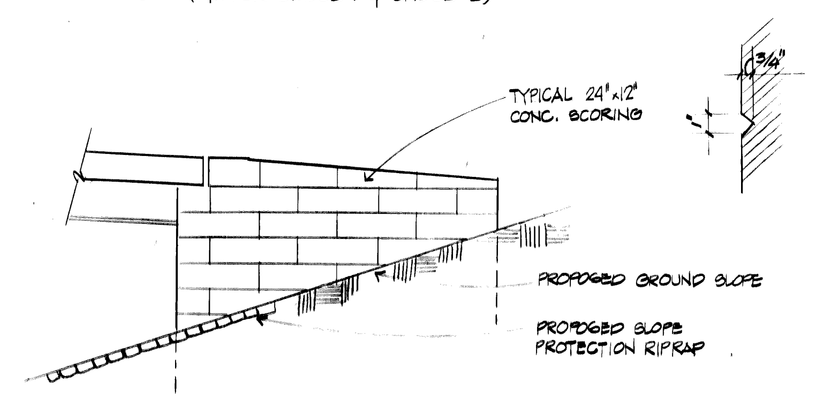


ABUTMENT ELEVATION
SCALE 1/4" = 1'-0"



NOTE
PROVIDE 3" MIN. CONC. COVER ALL SUBSTRUCTURE STEEL REINFORCEMENTS.

WINGWALL ELEVATION
SCALE 1/4" = 1'-0"



TYPICAL SCORING PLAN FOR ALL EXPOSED CONC. SURFACES OF ABUTMENTS & WINGWALLS OF BRIDGE #1 & BRIDGE #2

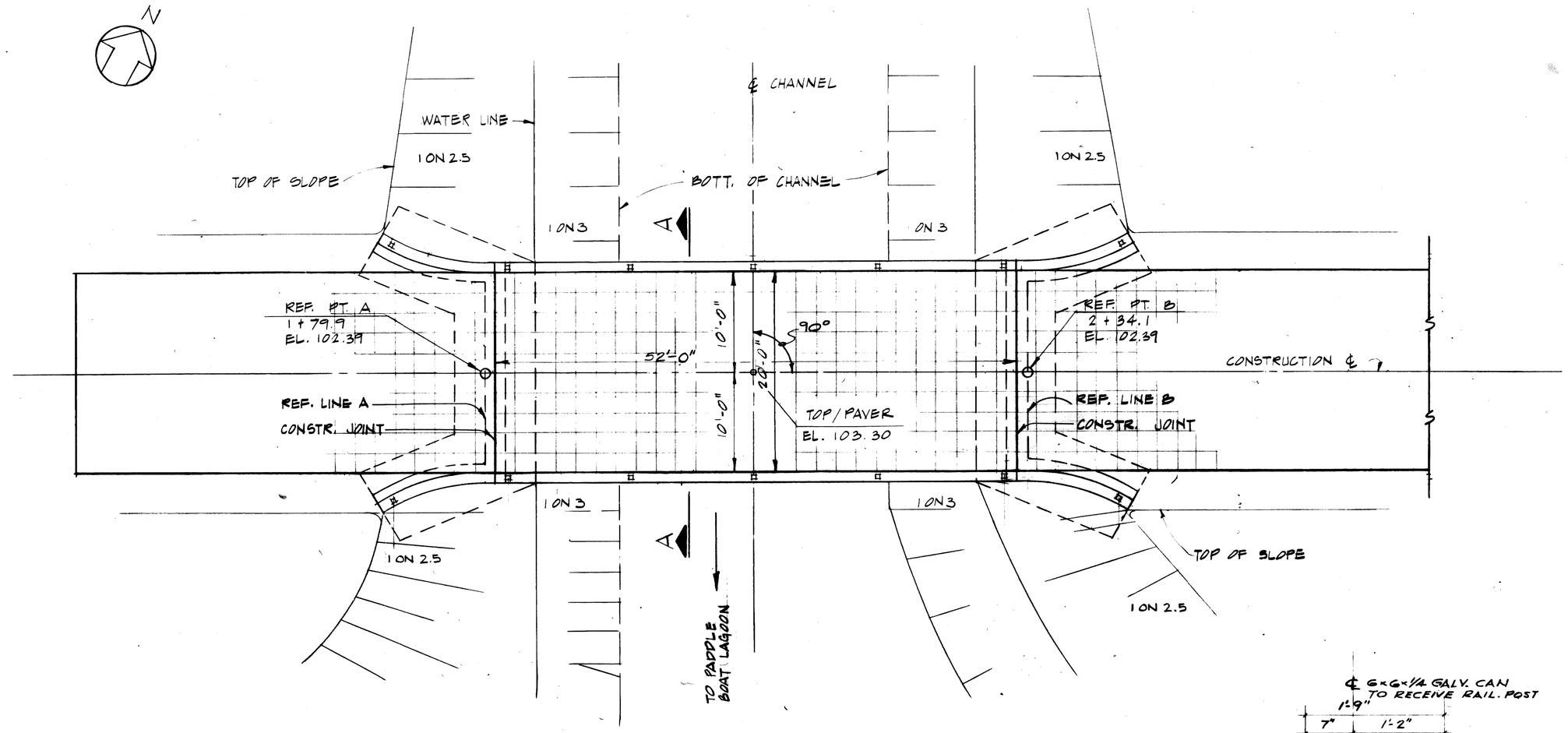
NOTE:
SEE SPECIFICATIONS FOR EXPOSED CONC. SURFACES FINISH. SANDBLASTING SHALL BE APPLIED ON ALL EXPOSED CONC. SURFACES OF ABUTMENTS & WINGWALLS OF BRIDGE #1 & BRIDGE #2.

Recreation Department
735 Randolph Street — Detroit, Michigan 48226
City of Detroit

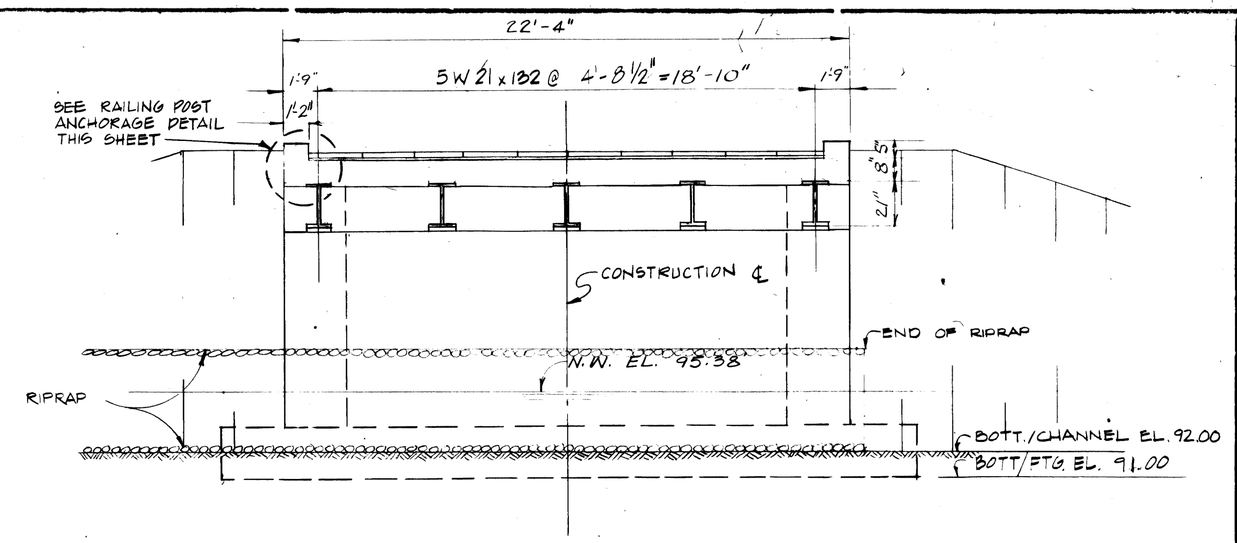
PROJECT: **Promenade Belle Isle Park**
TITLE: ABUTMENT DETAILS – BRIDGE NO. 2

Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
16890 James Couzens Detroit, Mich. 48221
(313) 342-4118

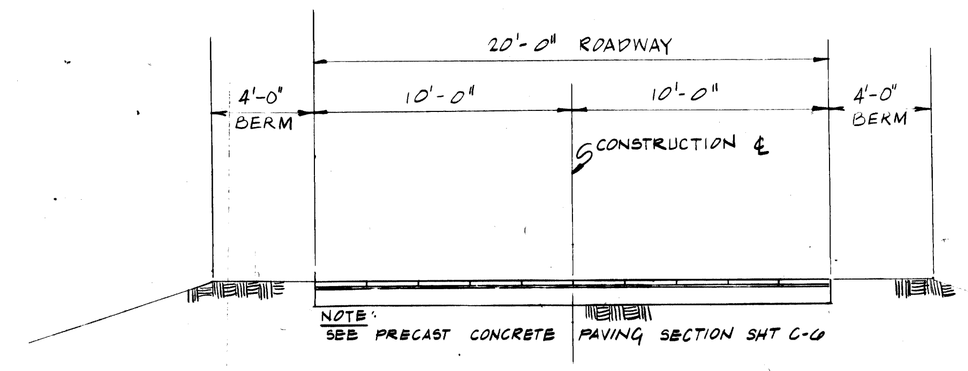
PROJECT No. 79-0401
DATE 8-8-80
SHEET No. S-3



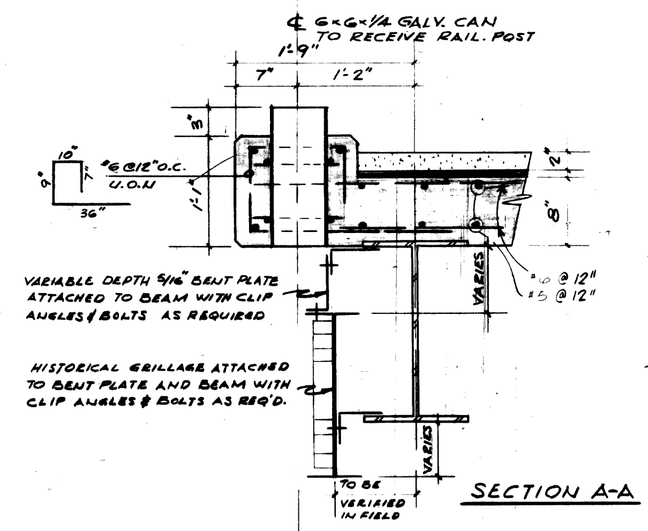
PLAN
SCALE 1/8" = 1'-0"



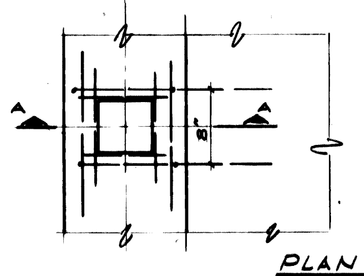
SECTION A-A
SCALE 1/4" = 1'-0"



TYPICAL APPROACH SECTION
SCALE 1/4" = 1'-0"

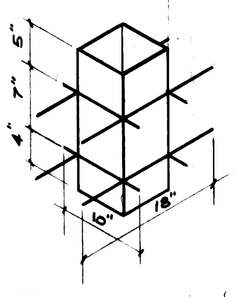


SECTION A-A

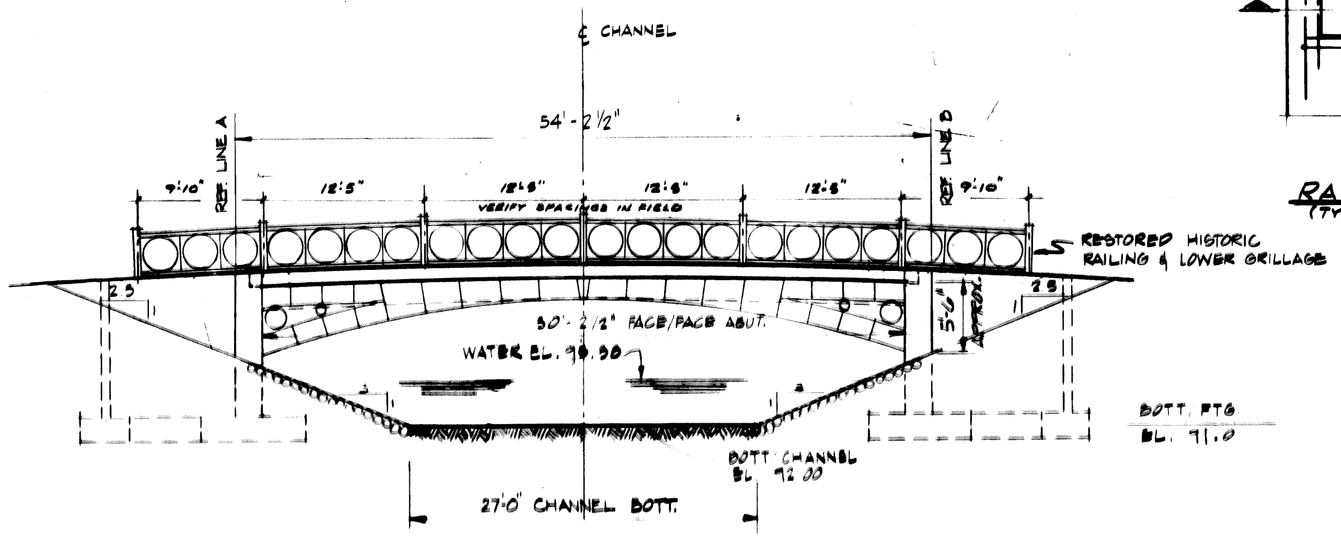


PLAN

RAILING POST ANCHORAGE
(TYPICAL) SCALE: 1"=1'-0"



NOTE:
GALV. CAN & BARS TO RECEIVE RAILING POST LOCATED AT SPACINGS SHOWN ON THIS SHEET. WELD #5 BARS TO CAN AS SHOWN ABOVE. CAN OPEN AT TOP & BOTTOM.



ELEVATION
SCALE 1/8" = 1'-0"

WORK THIS SHEET WITH SHEET C-4

GENERAL NOTES

1. FOR GENERAL NOTES SEE SHT. S-2 UNLESS OTHERWISE NOTED.
2. BEAM CAMBER IS TO BE 11" PERMANENT AND OF A PARABOLIC TYPE.
3.

Recreation Department
735 Randolph Street Detroit, Michigan 48226
City of Detroit

PROJECT: Promenade Belle Isle Park

TITLE: GENERAL DRAWING - BRIDGE NO. 1

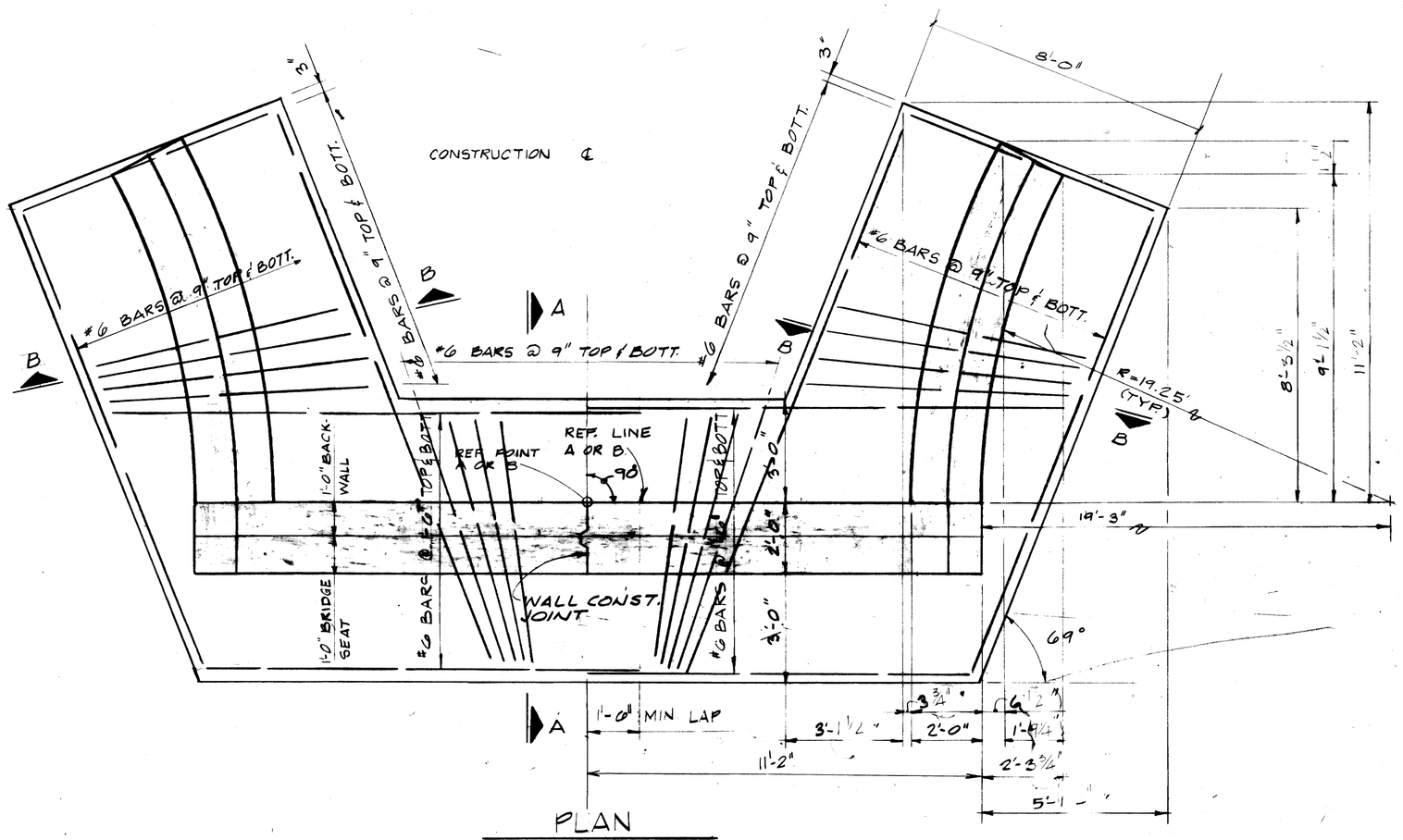
BW 207

Sidney E. Shorter & Assoc.
Kiley - Tyndall - Walker
15810 James Couzens Detroit, Mich. 48221
(313) 342-4118

PROJECT No. 79-0401

DATE 8-8-80

SHEET No. S-4

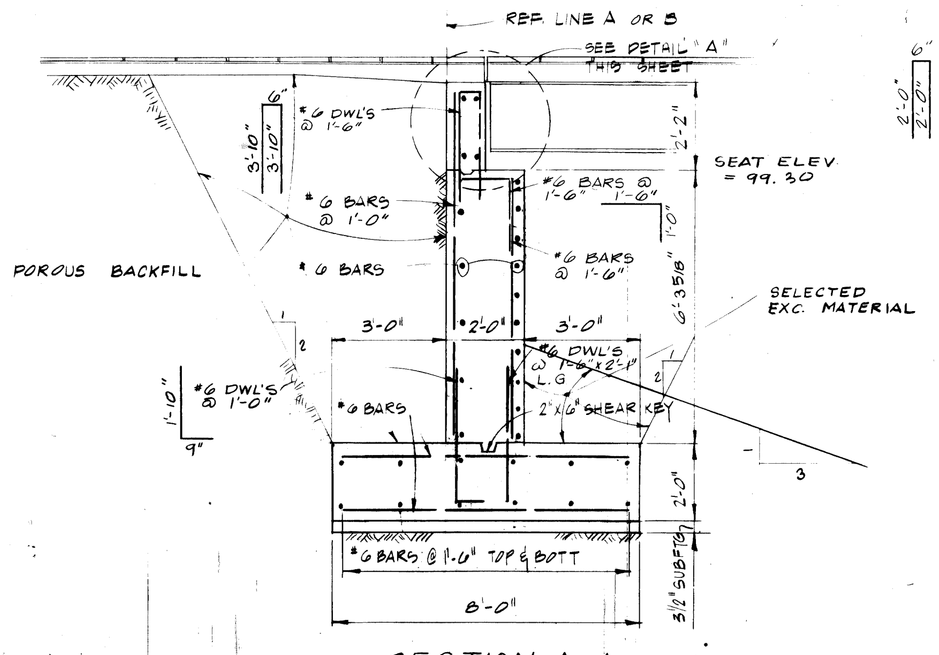


PLAN

SCALE 3/8" = 1'-0"

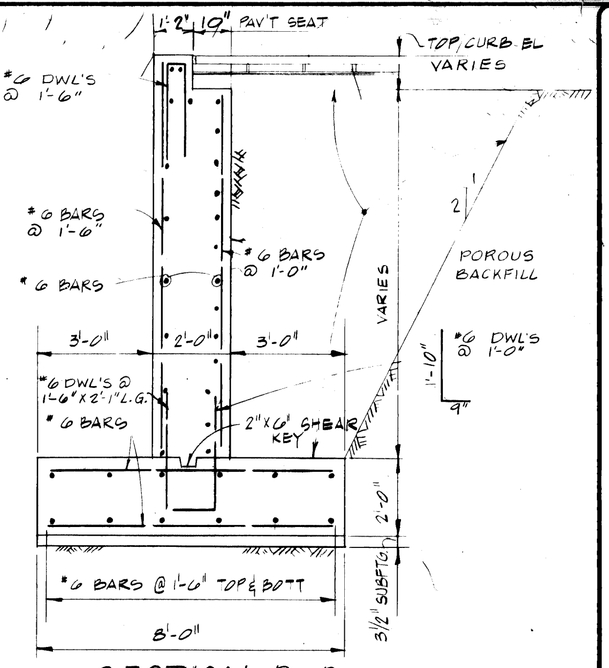
NOTE:

DIMENSIONS ARE TYPICAL FOR FOUR WINGWALLS.



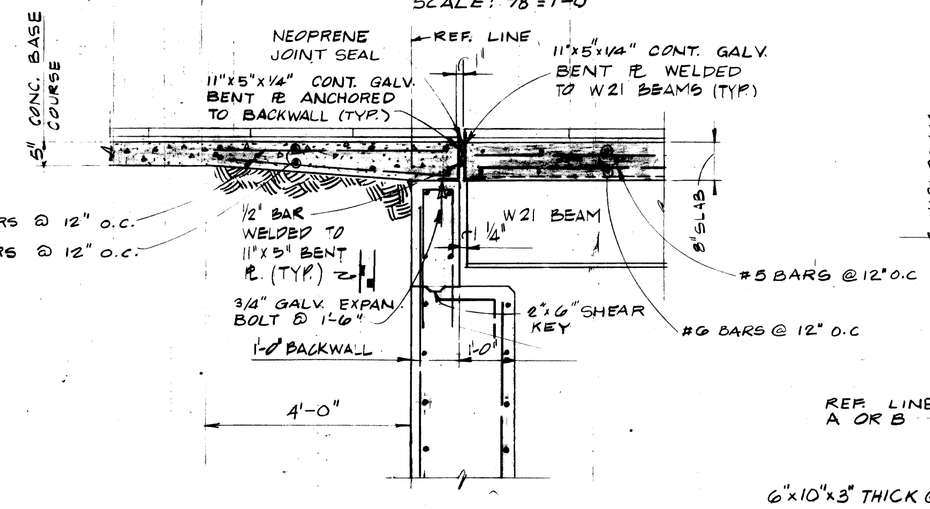
SECTION A-A

SCALE: 3/8" = 1'-0"



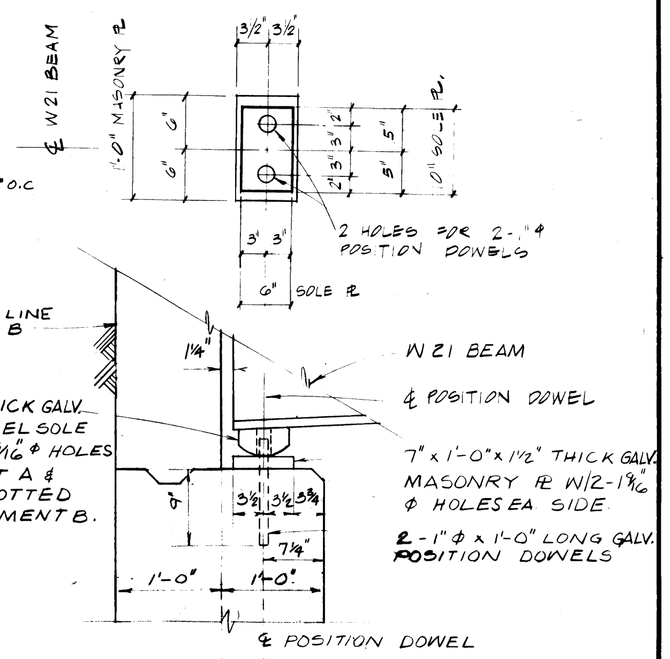
SECTION B-B

SCALE: 3/8" = 1'-0"



TYPICAL SECTION THRU BACKWALL

SCALE 1/2" = 1'-0"

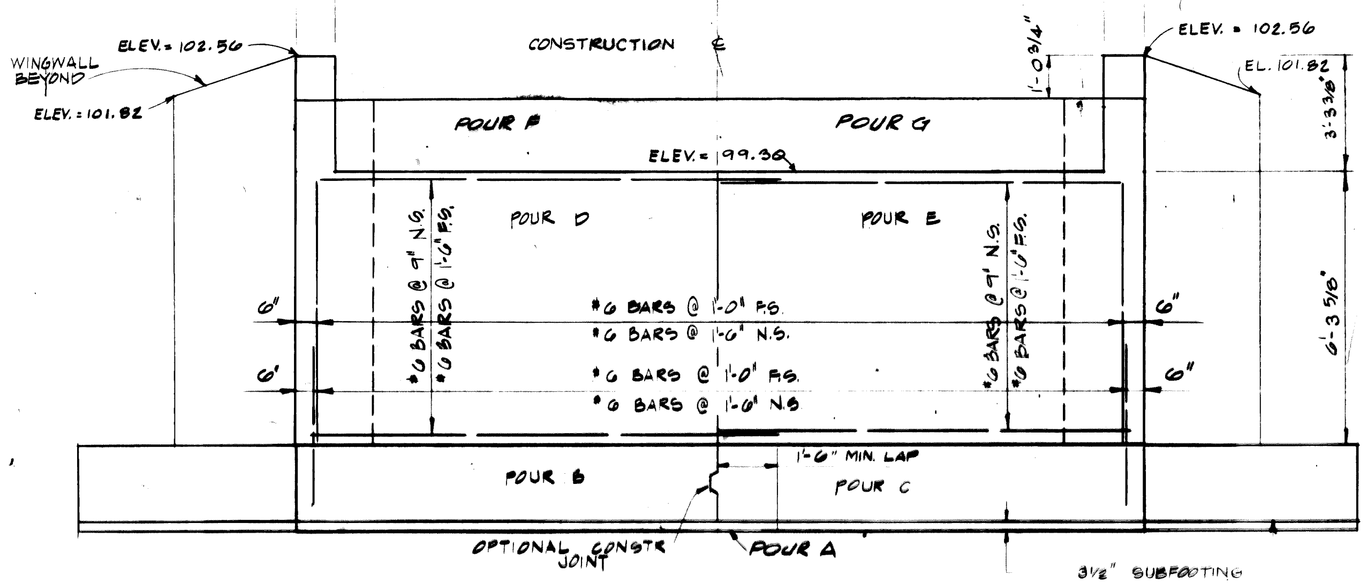


TYPICAL SEAT DETAIL "A"

SCALE: 1" = 1'-0"

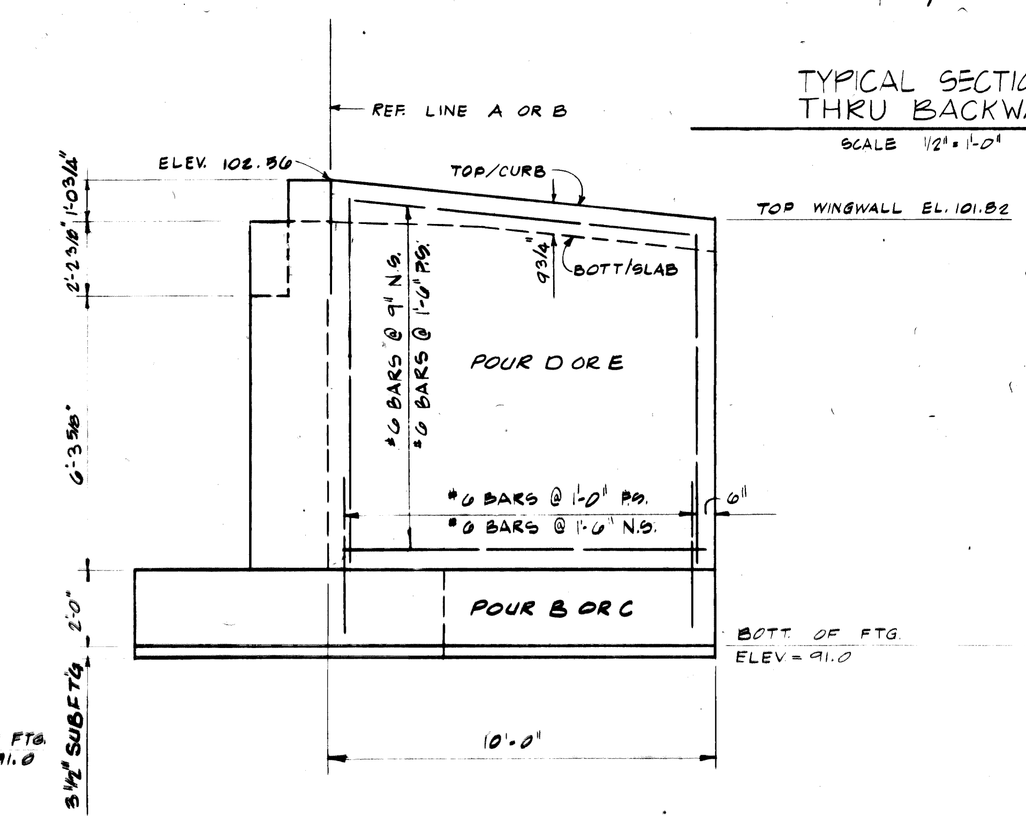
NOTE:

PROVIDE 1" CHAMFER FOR ALL EXPOSED CONC. EDGES. U.O.N.



ABUTMENT ELEVATION

SCALE: 3/8" = 1'-0"



WINGWALL ELEVATION

SCALE: 3/8" = 1'-0"

NOTE:

PROVIDE 3" MIN. CONCRETE COVER FOR ALL SUBSTRUCTURE STEEL REINFORCEMENT.

Recreation Department
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City of Detroit

PROJECT: **Promenade Belle Isle Park**

TITLE: ABUTMENT DETAILS - BRIDGE NO. 1 BW 207

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SHEET No. S-5