Property
of
WWS ENGINEERING GROUP
DO NOT REMOVE

CITY OF ATLANTA, GEORGIA

THREE RIVERS WATER QUALITY MANAGEMENT PLAN
NORTHERN PART OF
TASK NO. 8

FLINT RIVER WPCP TRANSMISSION MAIN

DEPARTMENT OF RESURGENS
HIGHWAYS & STREETS · SANITATION
ENGINEERING · WATER · TRAFFIC · POLLUTION CONTROL
ATLANTA, GA. 1847 1981
ENVIRONMENT AND STREETS

106

Property
of
WWS ENGINEERING GROUP
DO NOT REMOVE

106

C 130444-02

ENGINEERING - SCIENCE INC. / WILSON & ASSOCIATES
ATLANTA, GEORGIA

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 13 MAY 83



P-06

8-G-1

Property
of
WWS ENGINEERING GROUP
DO NOT REMOVE

CONSTRUCTION NOTES

1. WHERE MANHOLES OCCUR IN PAVEMENT, FINAL TOP ELEVATIONS SHALL BE ADJUSTED TO MEET EXISTING PAVEMENT ELEVATION.
2. TEMPORARY OR PERMANENT PLANT MIX PATCHES TO BE PLACED IN ROAD CUTS THE SAME DAY CUT IS MADE. AT LEAST ONE-WAY TRAFFIC TO BE MAINTAINED DURING WORKING HOURS AND TWO-WAY TRAFFIC DURING NON WORK HOURS.
3. WHERE EXISTING NATURAL DRAINAGE DITCHES OR STREAM BANKS ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR IS TO RESTORE TO ORIGINAL ALIGNMENT, GRADE AND INVERT. CONTRACTOR IS TO COMPACT BACKFILL IN DRAINAGE DITCHES OR STREAMS TO 95% DENSITY AS PER SPECIFICATIONS.
4. VERTICAL CONTROL IS PROVIDED BY BENCH MARKS DENOTED ON THE DRAWINGS AS EITHER TOP CASTING OF EXISTING SANITARY SEWER MANHOLES, OR BY NAILS SET AS CONTROL POINTS IN EXISTING PAVEMENT.
5. SUBSURFACE INFORMATION SHOWN ON DRAWINGS WAS DEVELOPED TO FACILITATE DESIGN AND DETAILING OF WORK SHOWN. NO WARRANTY IS GIVEN, EXPRESSED OR IMPLIED, THAT THIS INFORMATION REPRESENTS ACTUAL SUBSURFACE CONDITIONS EXCEPT AS DESCRIBED ABOVE, AND ALL PARTIES ARE ADVISED NOT TO RELY ON THE DATA IN ANY OTHER MANNER. BIDDERS AND OTHER INTERESTED PARTIES ARE CAUTIONED TO CONDUCT THEIR OWN EXPLORATIONS AND TESTS FOR GUIDANCE IN DEVELOPING ESTIMATES OF WORK REQUIRED. BORING LOGS WERE PREPARED BY LAW ENGINEERING TESTING COMPANY, COPIES OF WHICH ARE AVAILABLE UPON REQUEST FROM THE OWNER.
6. EXISTING UTILITIES AND OTHER SUBSURFACE STRUCTURES ARE SHOWN IN THE PLANS TO THE EXTENT KNOWN AT THE TIME OF PREPARATION. NO WARRANTY IS GIVEN THEREBY AS TO THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. ALL USE OF THE INFORMATION SHOWN HEREIN SHALL BE AT THE USER'S RISK.
7. ELEVATIONS FOR THIS PROJECT: REFER TO THE 1929 MEAN SEA LEVEL DATUM. COORDINATES SHOWN: REFER TO THE GEORGIA STATE GRID.
8. ALL TRANSMISSION MAIN PIPE AND FITTINGS SHALL BE SLIP ON TYPE JOINTS EXCEPT WHERE OTHERWISE INDICATED ON PLANS. MATERIALS, WORKING PRESSURES, AND CLASS OF PIPE AND FITTINGS SHALL BE AS INDICATED IN THE SPECIFICATIONS.
9. ALL TRANSMISSION MAIN BEDDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS.
10. ALL PROPOSED STRUCTURES CALLED OUT ON THE DRAWINGS AND BEING REFERED TO AS A "STD" ITEM, ARE TO BE REFERENCED TO THE CITY OF ATLANTA "STANDARD DETAIL DRAWINGS" AND THE CITY OF ATLANTA STANDARD SPECIFICATIONS.
11. LOCATION OF STORAGE AREAS AND ENTRY AREAS DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING PROPERTY OWNERS ALONG ROUTE FOR THIS PURPOSE.
12. PHOTOGRAPHIC INFORMATION SHOWN HERON WAS COMPLETED IN SPRING OF 1977. IN ORDER TO FACILITATE DESIGN AND DETAILING OF WORK SHOWN. WHILE THE DRAWINGS HAVE BEEN UPDATED TO REFLECT KNOWN CHANGES AT THE TIME OF PREPARATION, NO WARRANTY IS GIVEN, EXPRESSED OR IMPLIED THAT THIS INFORMATION REPRESENTS ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. ALL USE OF THE INFORMATION SHOWN SHALL BE AT THE USER'S RISK.
13. CLEARING LIMITS SHALL BE WITHIN THE TEMPORARY CONSTRUCTION LIMITS AS SHOWN ON THE EASEMENT DRAWING OTHERWISE CLEARING LIMITS SHALL BE IN THE PUBLIC RIGHT-OF-WAY.

GEORGIA DEPARTMENT OF TRANSPORTATION NOTES

1. SHEETING AND SHORING OR OTHER APPROVED METHODS FOR TRENCH BRACING WILL BE REQUIRED ON THIS CONTRACT WITHIN ALL EXISTING RIGHTS-OF-WAY, AS NEEDED, TO MEET ALL SAFETY REQUIREMENTS AND AS DIRECTED BY THE ENGINEER.
2. SHEETING AND SHORING TO BE REMOVED FROM ALL TRENCHES WITHIN STATE RIGHTS-OF-WAY AS PER GEORGIA DOT REQUIREMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE MATERIAL USED FOR THE ABOVE MENTIONED CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING THE GEORGIA DOT RIGHT-OF-WAY, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND ALLAY DUST AND TO TAKE WHATEVER MEASURES NECESSARY TO INSURE THE ROAD IS MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
5. CONSTRUCTION WITHIN ROAD AND HIGHWAY RIGHTS-OF-WAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF PERMITS OBTAINED FROM THE AGENCIES HAVING JURISDICTION THEREIN, AND AS PER THE DRAWINGS AND SPECIFICATIONS.

UTILITIES NOTES

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION OR BLASTING AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

UTILITY COMPANIES	UTILITIES PROTECTION CENTER	EMERGENCY NUMBER
ATLANTA GAS LIGHT COMPANY	325-5000	522-1150
GEORGIA POWER COMPANY	325-5000	325-4001
SOUTHERN BELL TELEPHONE COMPANY	325-5000	611
ATLANTA WATER DEPARTMENT	-	873-3421
CLAYTON COUNTY WATER DEPARTMENT	-	363-6601
GEORGIA DEPARTMENT OF TRANSPORTATION	-	294-6027
CLAYTON COUNTY HIGHWAY DEPARTMENT	-	478-9911
ATLANTA AIRPORT	-	768-4118
ATLANTA DEPARTMENT OF ENVIRONMENT & STREETS	-	524-1428
FIRE DEPARTMENT - (ATLANTA)	-	659-2121
(CLAYTON)	-	366-3356
RESQUE SQUAD - (ATLANTA)	-	658-6651
(CLAYTON)	-	471-4244
POLICE (ATLANTA)	-	658-6666
(CLAYTON)	-	471-9000

LAND CONSERVATION NOTES

GENERAL: THE CONTRACTOR SHALL CONFORM WITH THE GUIDELINES AS SET FORTH IN "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES, AND TREE PRESERVATION AND PLANTING.

1. NO DISTURBED AREA WILL BE DENUDED FOR MORE THAN 15 CALENDAR DAYS UNLESS VEGETATIVELY STABILIZED OR OTHERWISE AUTHORIZED BY THE OWNER/ENGINEER OR HIS AGENT.
2. ALL EROSION AND SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS FIRST STEP IN GRADING, FOR THE PUMP STATION WORK.
   - 2.a PERIMETER DIKES (DK3) SHALL BE CONSTRUCTED ON THE DOWNHILL SIDE OF THE AREA TO BE DISTURBED. THESE DIKES SHALL DIVERT RUN OFF FROM THE DISTURBED AREA TO A SEDIMENT BASIN (Sd2).
   - 2.b THE SEDIMENT BASIN (Sd2) SHALL BE LOCATED AT THE LOW POINT OF THE DISTURBED AREA. THE BASIN SHALL BE FORMED BY EXCAVATION ONLY (NO DAM). THE BASIN SIZE SHALL BE AS REQUIRED TO CONTAIN 67 CUBIC YARDS OF RUN-OFF FOR EACH ACRE OF TRIBUTARY DRAINAGE AREA. AFTER EACH 1/4" OF RAINFALL SEDIMENT SHALL BE CHECKED. WHEN SEDIMENT LEVEL HAS REACHED 1/2 OF THE BASIN DEPTH SEDIMENT SHALL BE REMOVED AND HAULED TO AN APPROVED SITE.
3. ALL PIPELINE CONSTRUCTION NOT IN STREETS SHALL BE MULCHED AND SEEDED WITHIN 15 DAYS AFTER BACKFILL.
4. ALL TEMPORARY PERIMETER DIKES ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING. STRAW OR HAY MULCH IS REQUIRED. THE SAME APPLIES TO ALL SOIL STOCKPILES.
5. DURING CONSTRUCTION, ALL STORM SEWER INLETS WILL BE PROTECTED BY SILT TRAPS (Sd3) MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
6. ANY DISTURBED AREA NOT COVERED BY NOTE #1 ABOVE AND NOT PAVED, SODDED OR BUILT UPON BY 1 NOVEMBER OR DISTURBED AFTER THAT DATE SHALL BE SEEDED AND MULCHED PER SPECIFICATIONS.
7. WHERE CONSISTENT WITH JOB SAFETY REQUIREMENTS, ALL EXCAVATED MATERIAL IS TO BE PLACED ON THE UPHILL SIDE OF TRENCHES. NO MATERIAL IS TO BE PLACED IN STREAMBEDS. ANY STOCKPILED MATERIAL WHICH WILL REMAIN IN PLACE LONGER THAN 10 DAYS IS TO BE SEEDED FOR TEMPORARY VEGETATION AND MULCHED WITH STRAW MULCH. WHERE IT IS NECESSARY TO PLACE SPOIL ON DOWNHILL SIDE OF TRENCH IT IS TO BE BACK-SLOPED TO DRAIN TOWARD TRENCH. WHEN NECESSARY TO DEWATER THE TRENCH, THE PUMP DISCHARGE HOSE MUST OUTLET IN A STABILIZED AREA OR A SEDIMENT BASIN.
8. WHERE STREAM CROSSINGS ARE REQUIRED FOR EQUIPMENT, TEMPORARY CULVERTS SHALL BE PROVIDED BY THE CONTRACTOR. CULVERT SIZE AND LOCATION SHALL BE CAPABLE OF PASSING A 2 YEAR STORM, AND SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '83

REGISTERED No. 9418 PROFESSIONAL ENGINEER M. L. PRESCOTT

NO.	DATE	BY	DESCRIPTION	PLACES

REVISIONS

ENGINEERING-SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

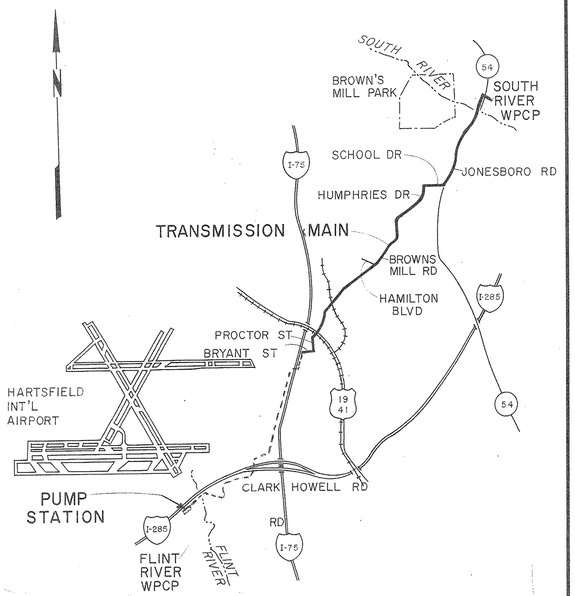
CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

FLINT RIVER WPCP TRANSMISSION MAIN
NOTES

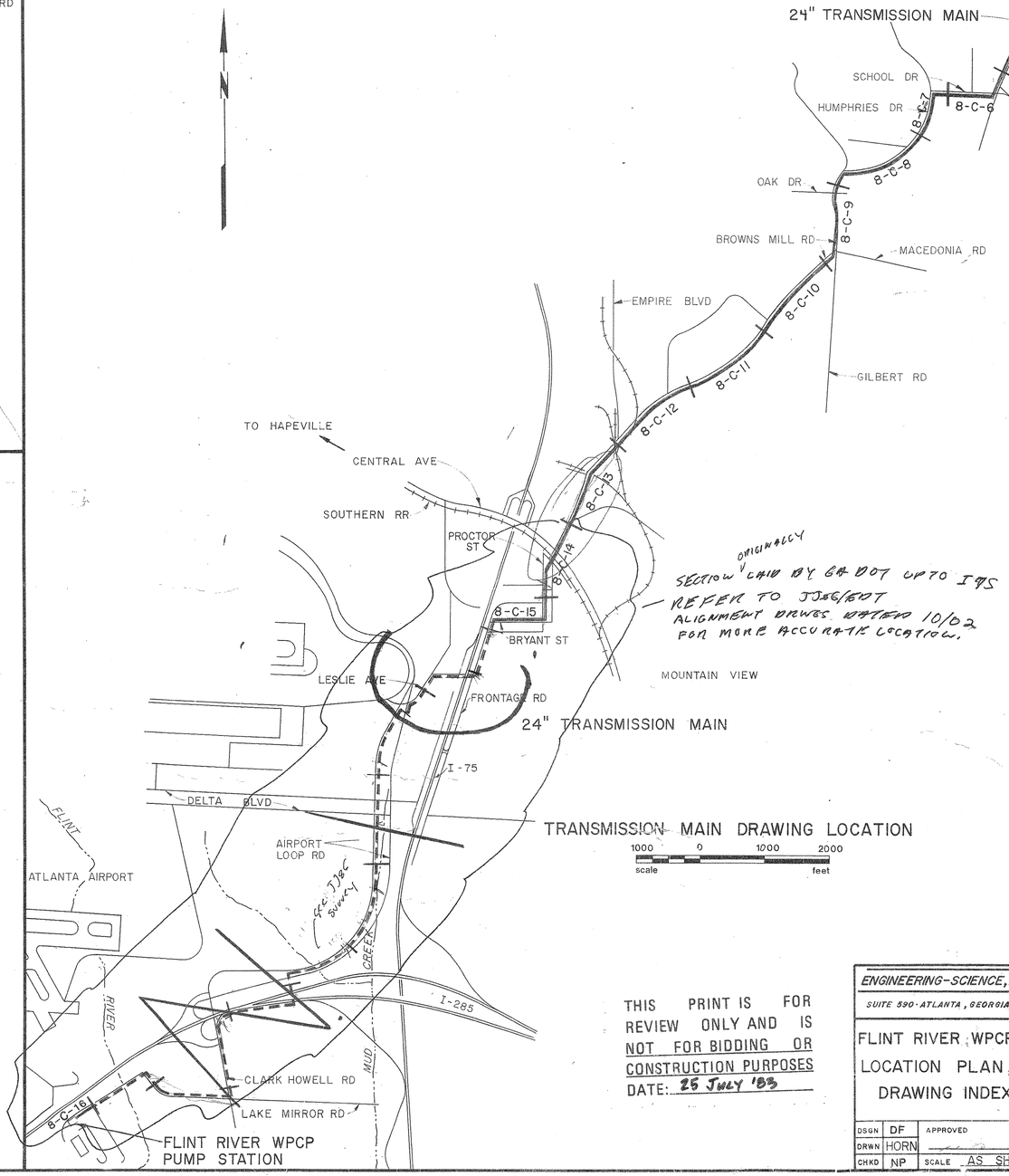
THREE RIVERS WATER QUALITY MANAGEMENT PLANS

DSGN	DF	APPROVED	
DRWN	HORN		
CHKD	NP	SCALE NONE	DATE 7-23-83

LAND LOT | DISTRICT | COUNTY
APPROVED 1 of Sec 3 (TO MSD N154 (150 W)
DRAWING NO. 8-G-2
2 OF 23



LOCATION PLAN
N.T.S.



TRANSMISSION MAIN DRAWING LOCATION

1000 0 1000 2000
scale feet

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DATE: 25 JULY '83

Property of
WWS ENGINEERING GROUP
DO NOT REMOVE

DRAWING LEGEND

- ℄ SWALE OR STREAM
- EDGE OF WATER
- COUNTY LINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- FENCE LINE
- ROAD — EXISTING ROAD (IDENTIFY "DIRT", "GRAVEL", "PAVED" OR OTHER)
- CENTERLINE
- RAILROAD (EXISTING)
- E — E — ELECTRIC DUCT (EXISTING)
- T — T — TELEPHONE DUCT (EXISTING)
- W — W — WATER LINE (EXISTING)
- G — G — GAS LINE (EXISTING)
- SP 378 — SURVEY LINE W/STATION NUMBER
- CURB OR CURB & GUTTER (EXISTING)
- CURB & GUTTER (PROPOSED)
- 400 — EXISTING CONTOUR LINES
- 400 — PROPOSED CONTOUR LINES
- MANHOLE OR AS NOTED
- POWER POLE
- TASK 8 TRANSMISSION MAIN (PROPOSED)
- CONCRETE WALL (EXISTING)
- S — S — SANITARY SEWER LINE (EXISTING)
- INLET & STORM DRAIN (EXISTING)
- INLET & STORM DRAIN (PROPOSED)
- CP# 11-14 — BENCH MARK, IDENTIFY
- 246.73 — EXISTING SPOT ELEVATION
- 246.73 + — PROPOSED SPOT ELEVATION
- MH — MANHOLE (PROPOSED)
- TASK 8 TRANSMISSION MAIN BY OTHERS

No. 2405 PROFESSIONAL ENGINEER N. L. PHESSANIS

NO.	DATE	BY	DESCRIPTION	PLACES
			REVISIONS	

ENGINEERING-SCIENCE, INC. / 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA / WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN
LOCATION PLAN, DRAWING LOCATION
DRAWING INDEX, LEGEND & NOTES

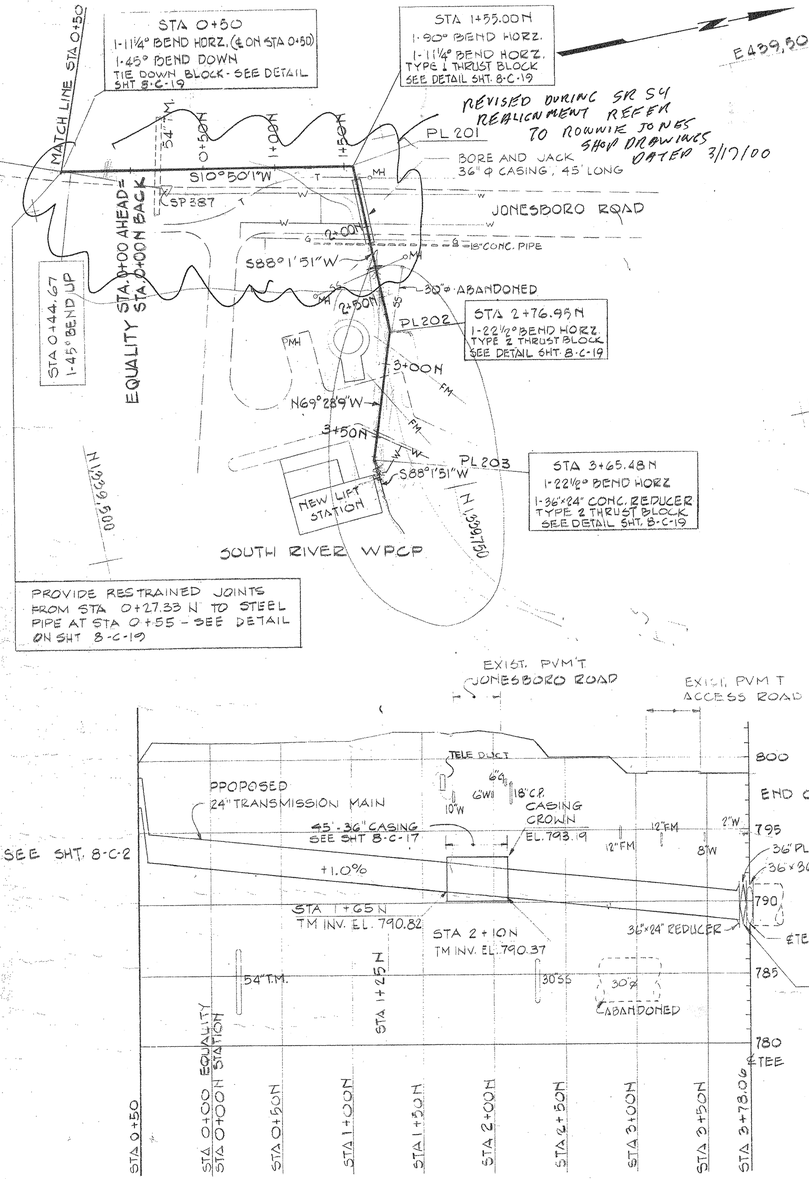
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DRWN	HORN		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

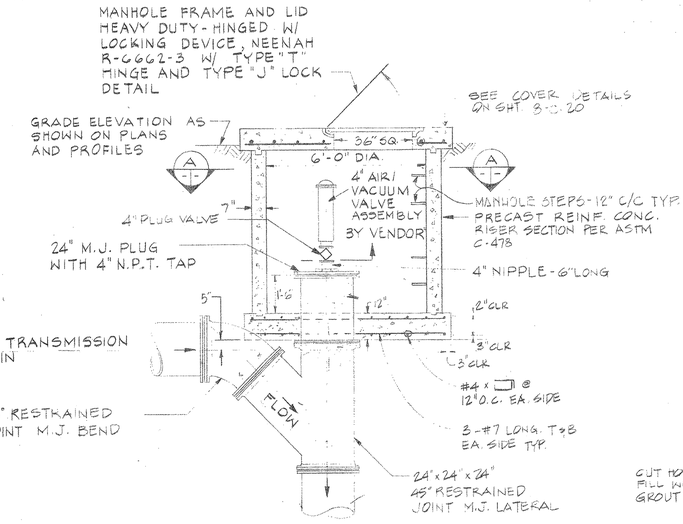
CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

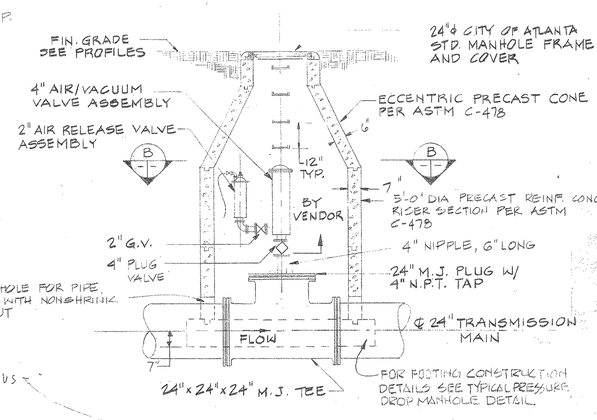
LAND LOT	DISTRICT	COUNTY
APPROVED		

DRAWING NO. 8-C- 3 of 23

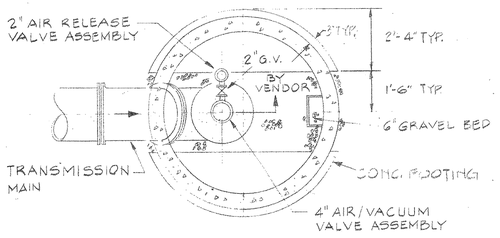


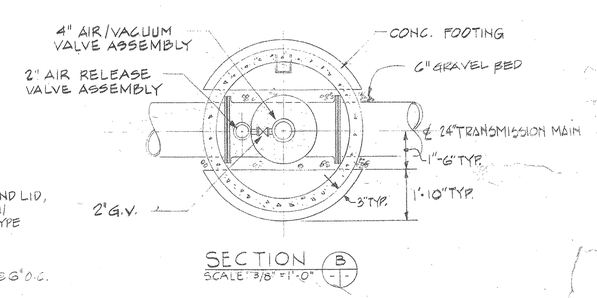


TYPICAL PRESSURE DROP MANHOLE DETAIL
SCALE: 3/8" = 1'-0" (SHADED PIPE NOT INCLUDED IN THIS PAY ITEM)

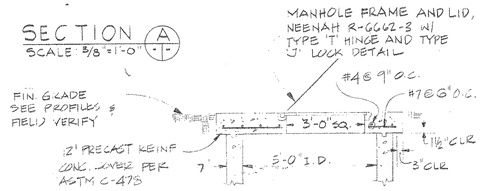


AIR AND VACUUM RELEASE ASSEMBLY DETAIL
SCALE: 3/8" = 1'-0" (SHADED PIPE NOT INCLUDED IN THIS PAY ITEM)





SECTION (A)
SCALE 3/8" = 1'-0"



SECTION (B)
SCALE 3/8" = 1'-0"

SHALLOW MANHOLE COVER DETAIL
SCALE: 3/8" = 1'-0"
NOTE: FOR USE AT AIR AND VACUUM RELEASE ASSEMBLY LOCATIONS WHERE COVER ABOVE TRANSMISSION MAIN IS 7 FT. OR LESS

SURVEY DATA

SURVEY POINTS NOS.		BEARING	DISTANCE
FROM	TO		
SP 387	SP 386	S22°05'10"W	237.65

PIPELINE TIES

POINTS NOS.		BEARING	DISTANCE
FROM	TO		
SP 387	PL 201	N04°34'18"E	132.89
SP 387	PL 202	N44°06'32"E	190.33
SP 387	PL 203	N68°52'45"E	239.88

NOTE: SP 387 STATE GRID COORDINATES ARE N1,339,593,541, E439,505,094

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DATE: 25 JULY '83

NO.	DATE	BY	DESCRIPTION	PLACES
			REVISIONS	

ENGINEERING-SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

FLINT RIVER WPCP TRANSMISSION MAIN
PLAN & PROFILE
STA. 3+65.48N TO STA. 0+50
AND MISCELLANEOUS DETAILS

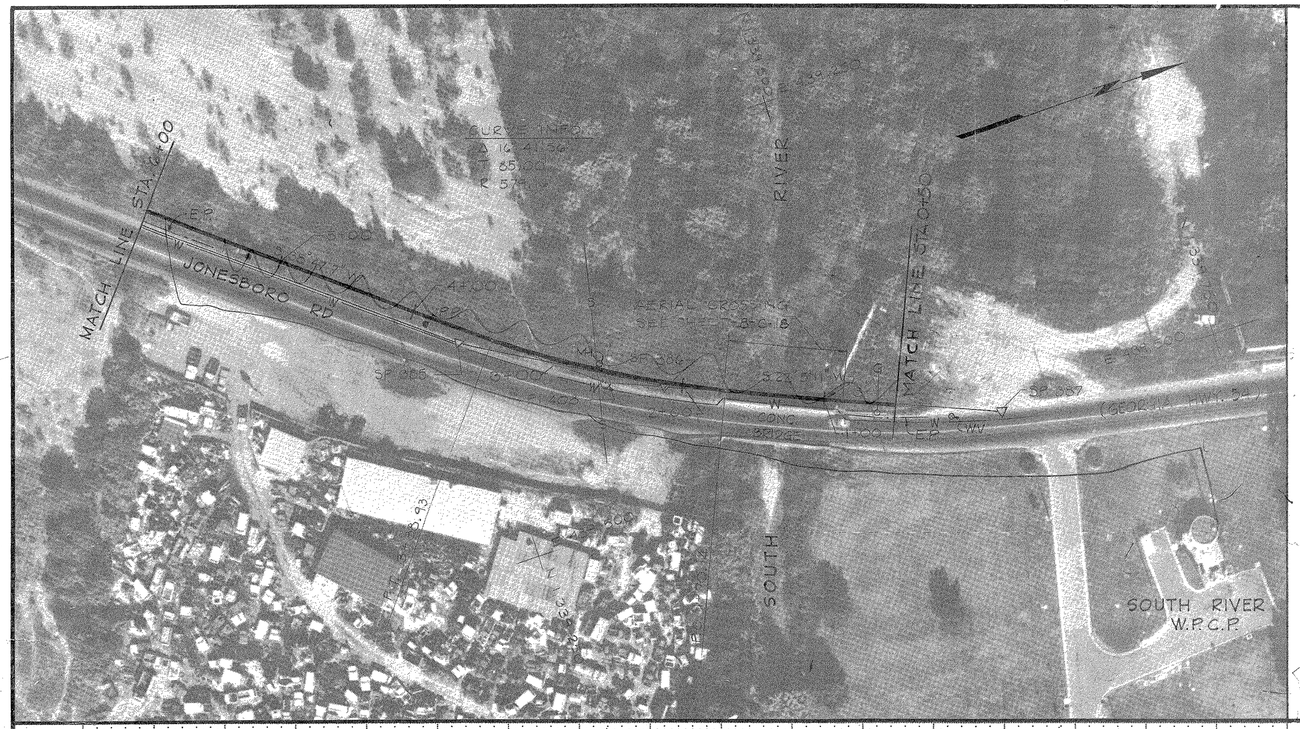
THREE RIVERS WATER QUALITY MANAGEMENT PROGRAM

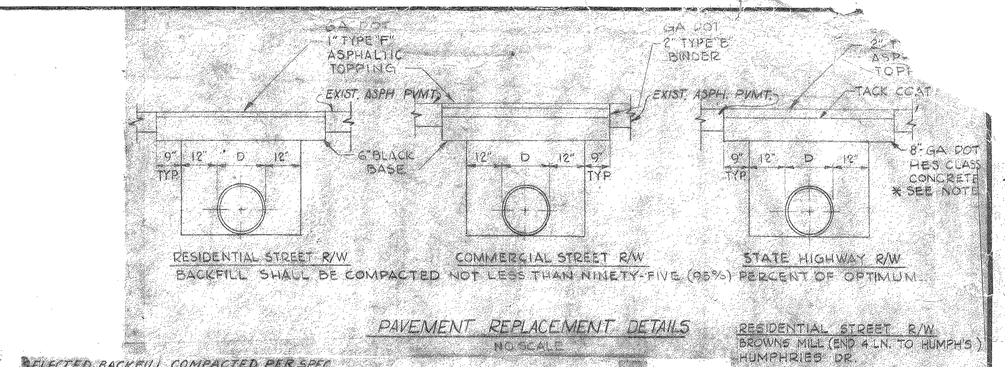
DSGN.	WR	APPROVED	
DRWN.	RB		
CHKD.	HR	SCALE AS SHOWN	DATE 7-25-83

LAND LOT 28 | DISTRICT 14 | FULTON COUNTY
APPROVED
DRAWING NO. 8-C-2A
4 OF 23

Property of WWS ENGINEERING GROUP
DO NOT REMOVE

REPRO PRODUCTS

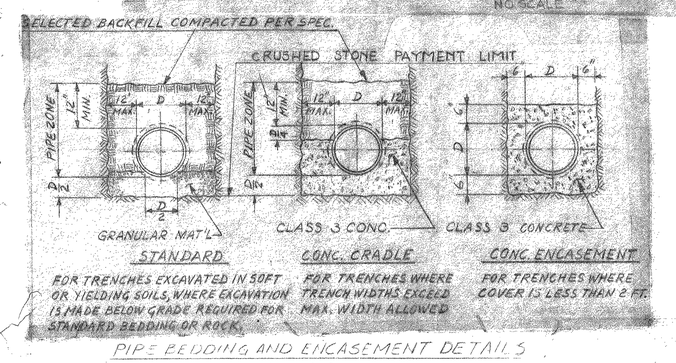




PAVEMENT REPLACEMENT DETAILS
NO SCALE

RESIDENTIAL STREET R/W
BROWNS MILL (END 4 LN. TO HUMPH'S)
HUMPHRIES DR.
SCHOOL DR.

COMMERCIAL STREET R/W
LESLIE AVE.
LESLIE AVE TO I-75
PLANT ACCESS. RD.
BROWNS MILL (ALL 4 LN.)
LAKE MIRROR DR.
STATE HIGHWAY R/W
AIRPORT LOOP RD.
JONESBORO RD.



PIPE BEDDING AND ENCASEMENT DETAILS
NO SCALE

NOTE:
* ASPHALT PAVING AND CONC. WORK SHALL BE IN ACCORDANCE WITH GA. DEPT OF TRANSP. STD. SPECS CONST. OF ROADS AND BRIDGES 1977 ED. SECS. 430, 853, & 440

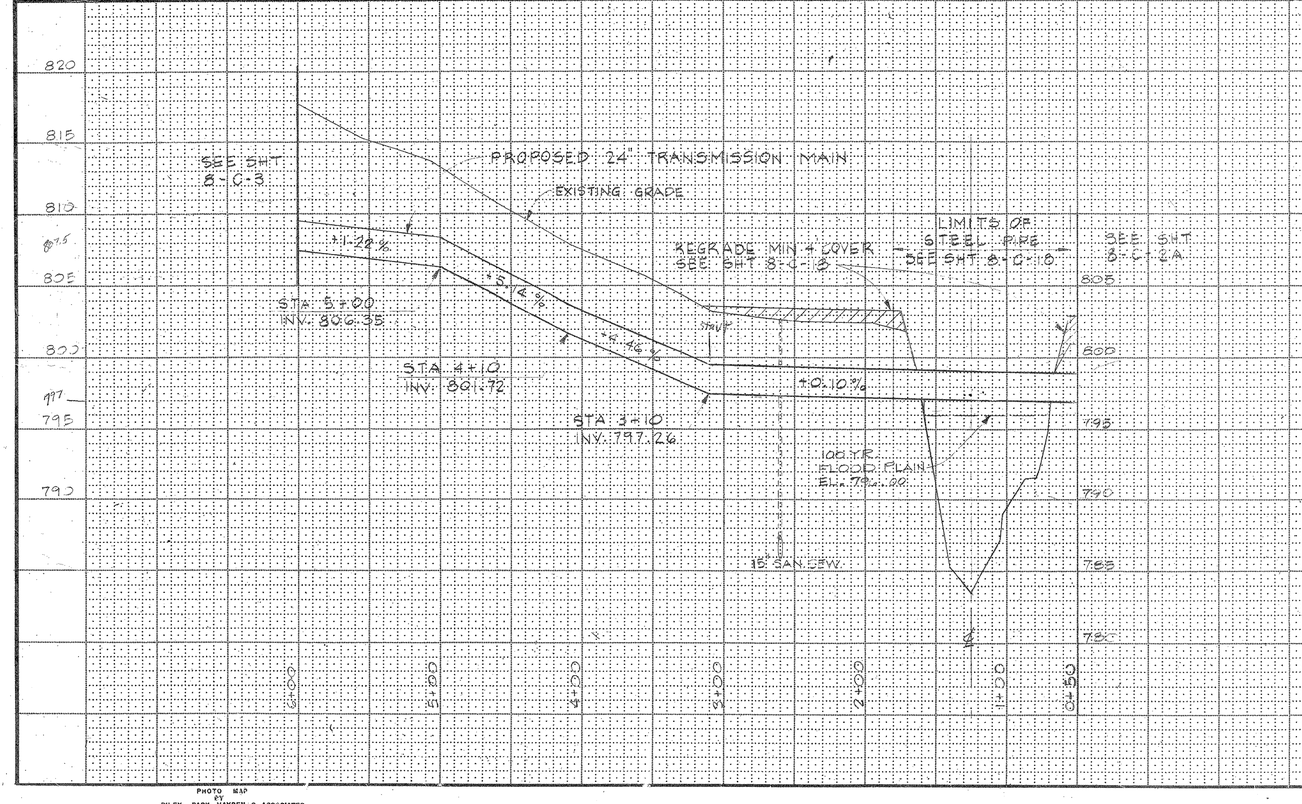


PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES

SURVEY DATA

SURVEY POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 380	SP 385	S30°05'53"W	147.72
SP 385	SP 384	S38°41'22"W	754.31

PIPELINE TIES

POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 386	PI 408	S22°05'11"W	42.23

FLOOD PLAIN REFERENCE
NOTE: 100 YEAR FLOOD PLAIN LEVEL ELEVATION 796.00

HEADWATERS - SOUTH RIVER REPORT
U.S. C.O.E.
UNITED STATES ARMY CORPS OF ENGINEERS, MAY, 1967

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REVISIONS

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WILSON AND ASSOCIATES

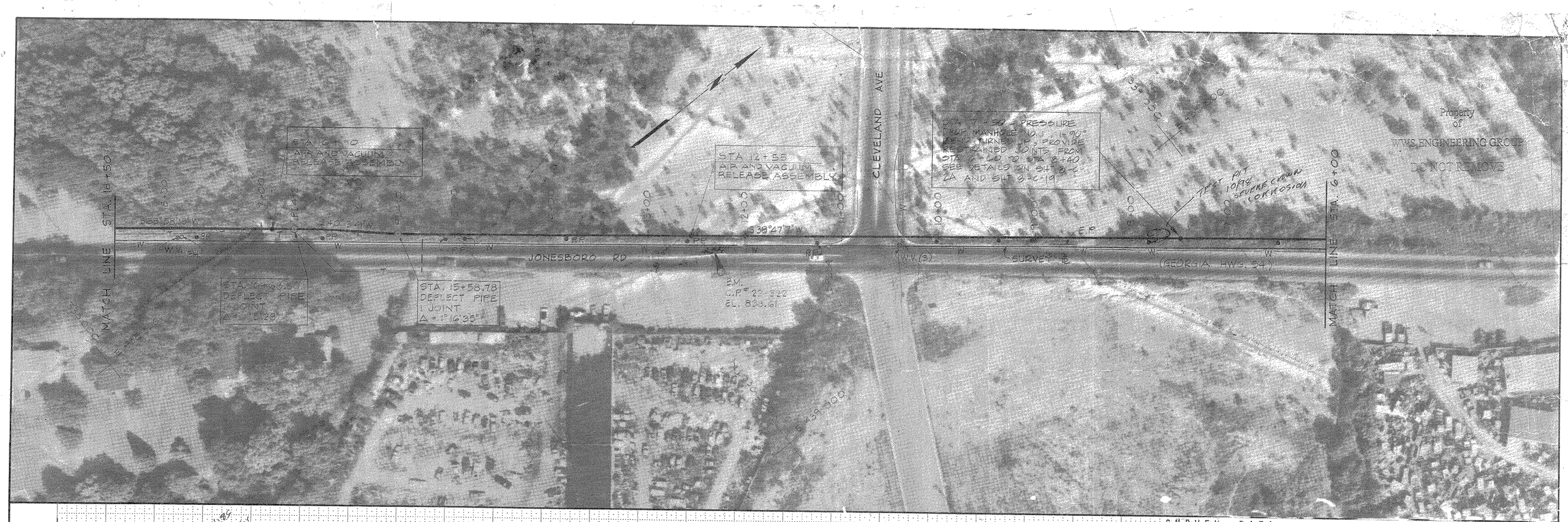
FLINT RIVER WPCP TRANSMISSION MAIN
PLAN & PROFILE
STA. 0+50 TO STA. 6+00

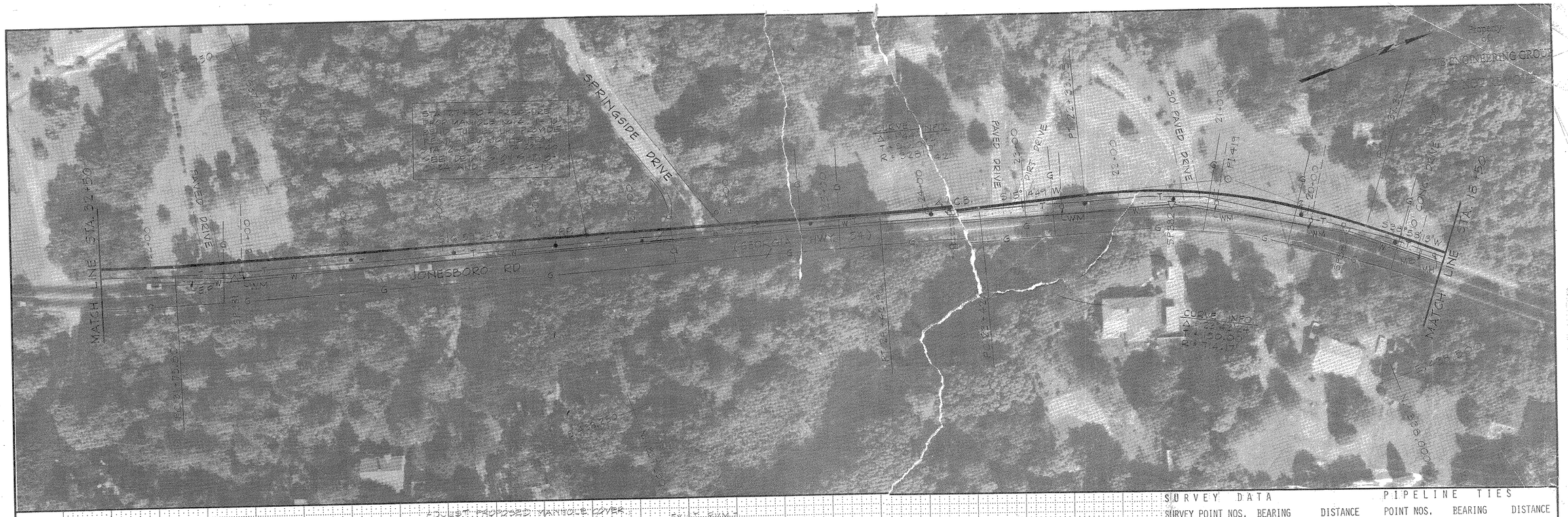
DSGN	DF	APPROVED	8/21/80
DRWN	HORN		
CHKD	NP	SCALE 1"=50'	DATE 7-25-83

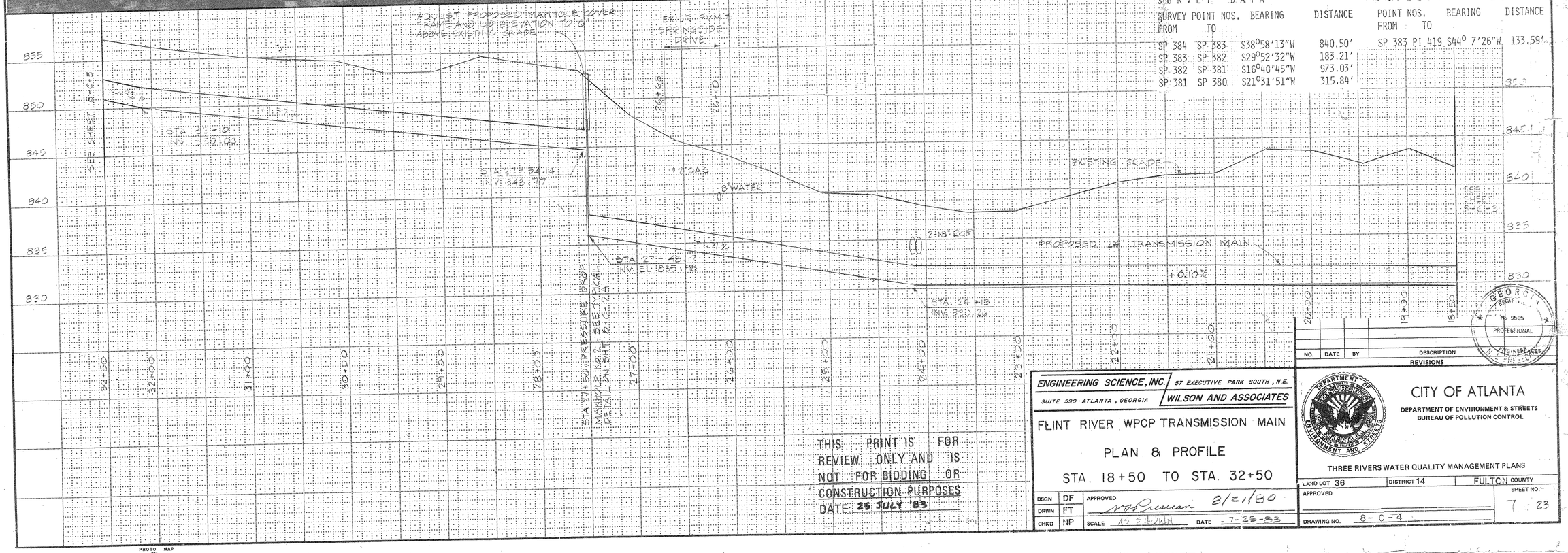
CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 28	DISTRICT 14	FULTON CO
APPROVED		
DRAWING NO. 8-C-2		


MATCH LINE STA. 18+50
STA. 18+00
STA. 17+00
STA. 16+90.4 AIR AND VACUUM RELEASE ASSEMBLY SEE DETAILS ON SHT. B-C-24
STA. 16+00
STA. 15+00
STA. 14+00
STA. 13+00
STA. 12+00
STA. 11+00
STA. 10+00
STA. 9+00
STA. 8+00
STA. 7+00
STA. 6+00
MATCH LINE STA. 6+00
JONESBORO RD
CLEVELAND AVE
(GEORGIA HWY. 54)
SURVEY ℄
EXISTING GRADE
FUTURE GRADE
6" WATER
8" SEWER
STA. 16+90.4 AIR AND VACUUM RELEASE ASSEMBLY SEE DETAILS ON SHT. B-C-24
STA. 16+99.80 DEFLECT PIPE 1 JOINT Δ = 1°16'38"
STA. 15+58.78 DEFLECT PIPE 1 JOINT Δ = 1°16'38"
STA. 12+55 AIR AND VACUUM RELEASE ASSEMBLY
STA. 7+30 - PRESSURE CHAN. MANHOLE NO. 1 - 90° BEND - TURNED UP - PROVIDE RESTRAINED JOINTS FROM STA. 7+60 TO STA. 8+40 SEE DETAILS ON SHT. B-C-19 & SHT. B-C-19A
STA. 6+40 INV: 829.54
STA. 5+00 INV: 827.45
STA. 2+58 INV. 827.21
STA. 1+45 INV. 826.72
STA. 7+15.2 INV. 817.2
STA. 7+45 INV. 816.2
+0.10%
+0.10%
+1.16%
+2.00%
-0.10%
-0.10%
-0.10





SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 384	SP 383	S38°58'13"W	840.50'
SP 383	SP 382	S29°52'32"W	183.21'
SP 382	SP 381	S16°40'45"W	973.03'
SP 381	SP 380	S21°31'51"W	315.84'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 383	PI 419	S44° 7'26"W	133.59'

PHOTO MAP BY FILEY, PARK, HAYDEN & ASSOCIATES

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '83

NO.	DATE	BY	DESCRIPTION
			REVISIONS

GEORGIA REGISTERED No. 9505 PROFESSIONAL ENGINEER

ENGINEERING SCIENCE, INC. / WILSON AND ASSOCIATES
57 EXECUTIVE PARK SOUTH, N.E.
SUITE 590 · ATLANTA, GEORGIA

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

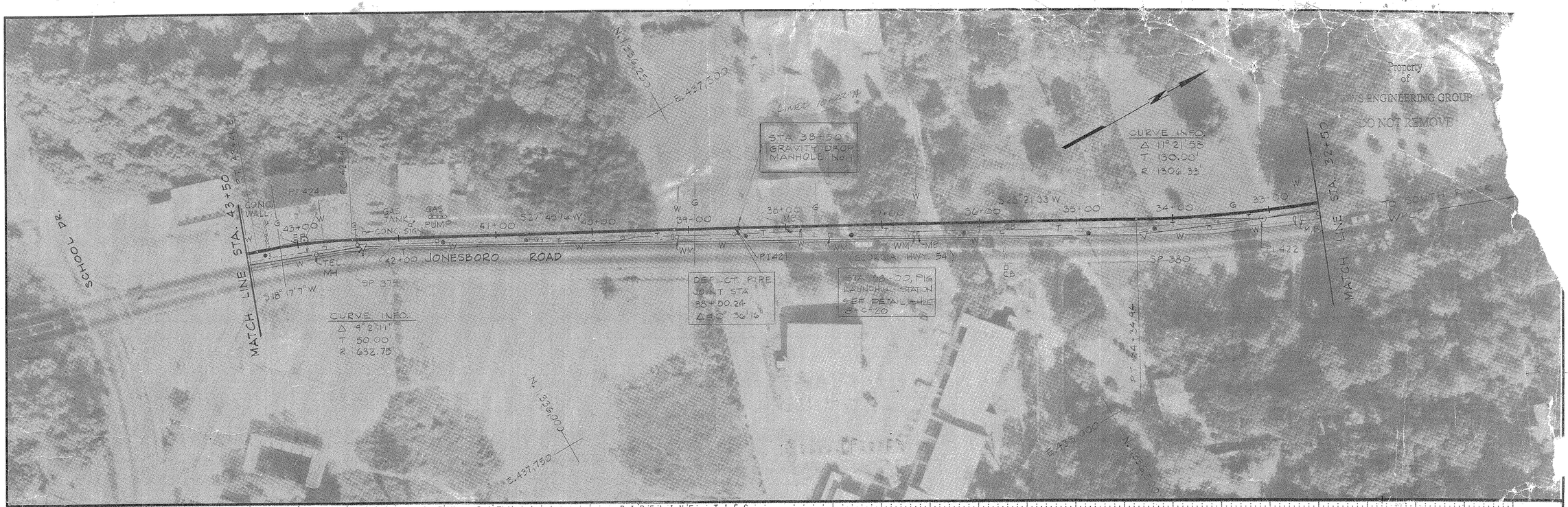
STA. 18+50 TO STA. 32+50

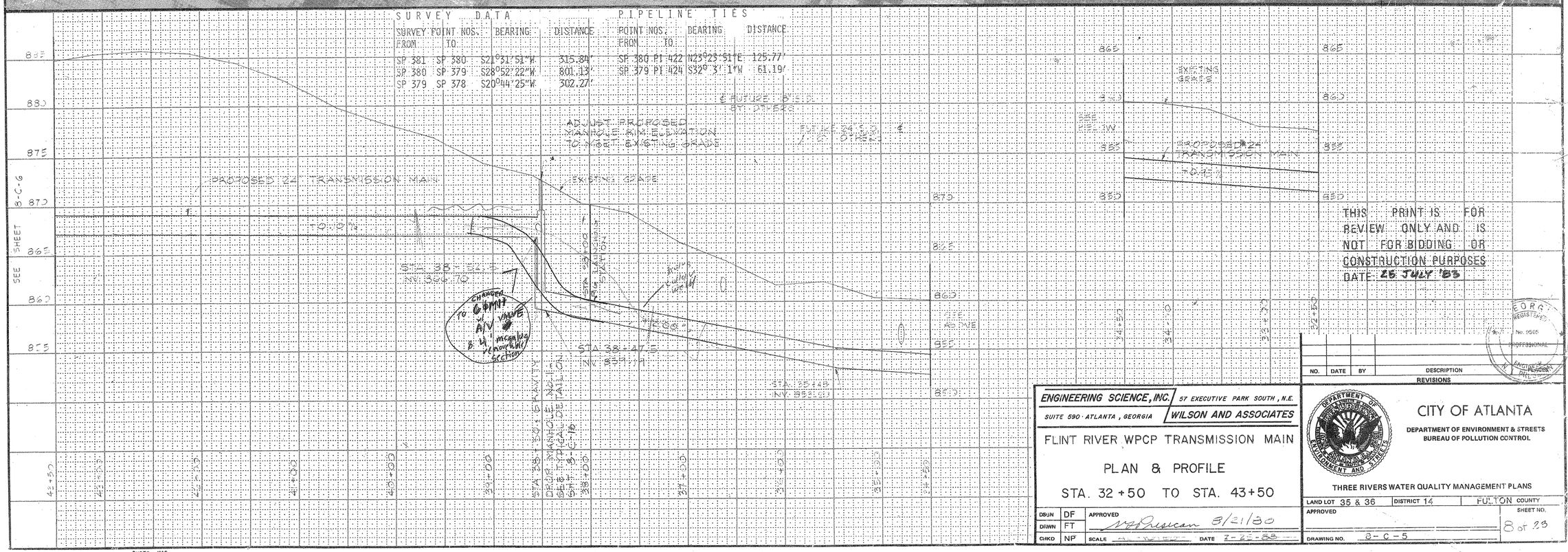
DSGN	DF	APPROVED	8/21/80
DRWN	FT		
CHKD	NP	SCALE 1" = 50' H & 1" = 5' V	DATE 7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 36	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 7 - 23
DRAWING NO. 8-C-4		





SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 381	SP 380	S21°31'51"W	315.34'
SP 380	SP 379	S28°52'22"W	801.13'
SP 379	SP 378	S20°44'25"W	302.27'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 380	PI 422	N23°23'51"E	125.77'
SP 379	PI 424	S32° 3' 1"W	61.19'

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GEORGIA REGISTERED No. 9505 PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION
			REVISIONS

ENGINEERING SCIENCE, INC. / WILSON AND ASSOCIATES
57 EXECUTIVE PARK SOUTH, N.E.
SUITE 590 · ATLANTA, GEORGIA

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 32+50 TO STA. 43+50

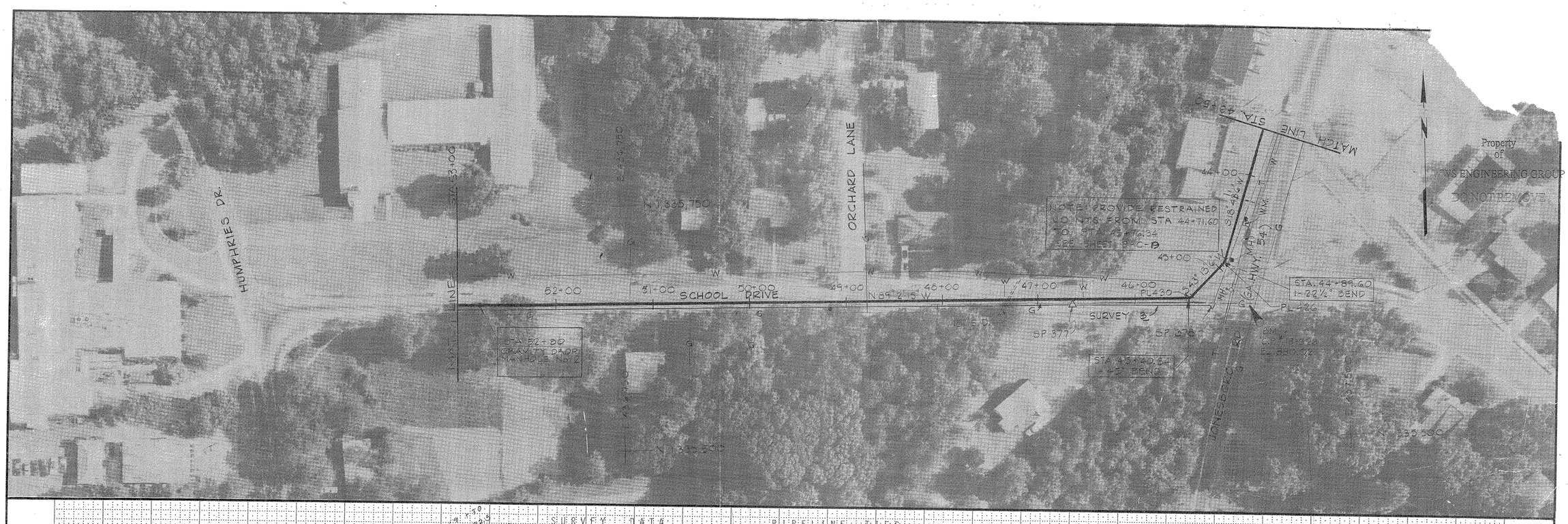
DSGN	DF	APPROVED
DRWN	FT	
CHKD	NP	SCALE 1" = 100' DATE 7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 35 & 36	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 8 of 23
DRAWING NO. 8-C-5		

PHOTO MAP BY RILEY, PARK, MAYDEN & ASSOCIATES



SURVEY DATA				PIPELINE TIES			
SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE	POINT NOS. FROM	TO	BEARING	DISTANCE
SP 379	SP 378	S20°44'25"W	302.27'	SP 378	PL 426	N14°25'26"E	44.28'
SP 378	SP 377	N88°49'16"W	142.96'	SP 378	PL 430	N76° 0'16"W	24.57'
SP 377	SP 376	N89° 2'15"W	826.72'				

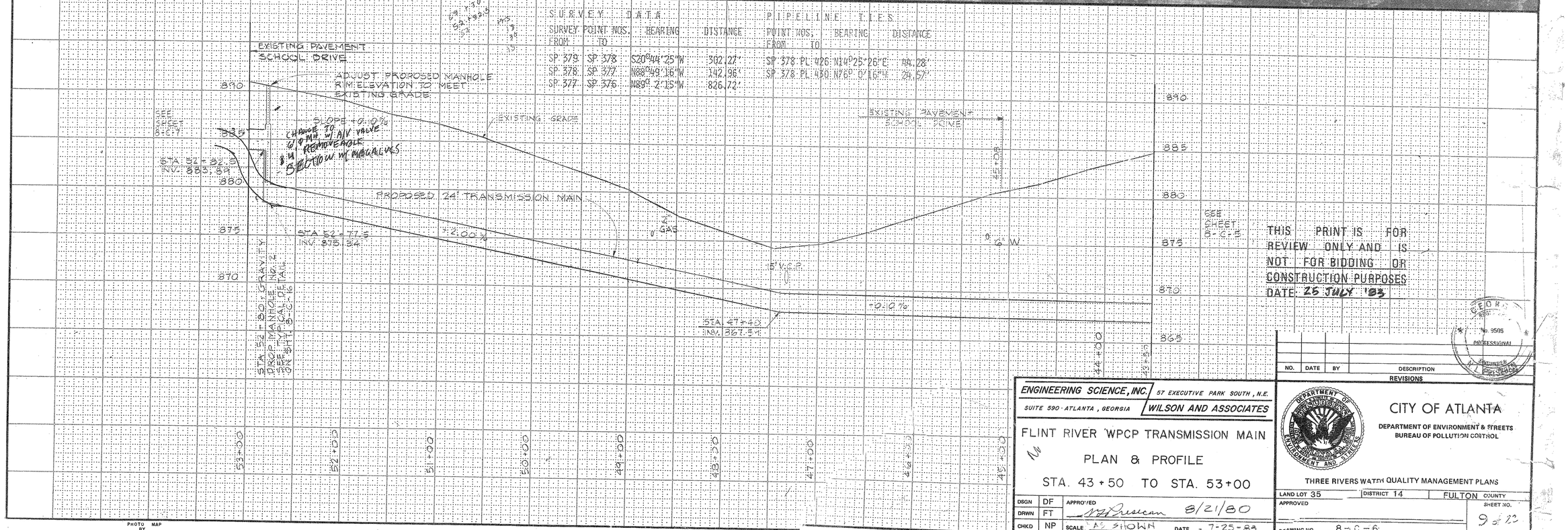


PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES

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DATE: 25 JULY '83

GEORGIA No. 9505 PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION
			REVISIONS

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 43+50 TO STA. 53+00

DSGN	DF	APPROVED	8/21/80
DRWN	FT		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 35	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 9 of 22
DRAWING NO. 8-C-6		



PHOTO MAP
BY
RILEY, PARK, HAYDEN & ASSOCIATES

SURVEY DATA					PIPELINE TIES			
SURVEY POINT NOS.		BEARING	DISTANCE		POINT NOS.		BEARING	DISTANCE
FROM	TO				FROM	TO		
SP 377	SP 376	N69° 2'15"W	826.72'		SP 376	PI 433	S38°31'33"W	5.31'
SP 376	SP 375	S 2°39'37"E	210.03'		SP 373	PI 437	N53°49' 0"E	7.21'
SP 375	SP 374	S10°49'25"W	88.42'		SP 372	PI 438	N47°40' 1"E	40.00'
SP 374	SP 373	S20° 7'36"W	477.10'					
SP 373	SP 372	S39°54'59"W	214.86'					
SP 372	SP 371	S47°40' 1"W	283.70'					

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DATE: 25 JULY '83

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E.
SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 53+00 TO STA. 65+50

DSGN	DF	APPROVED	
DRWN	FT		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

NO.	DATE	BY	DESCRIPTION	PLACES
			REVISIONS	

No. 3615
PROFESSIONAL
ENGINEER
N. A. PREDICTION

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 35	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 10 of 23
DRAWING NO. 8-C-7		



PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES

SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 372	SP 371	S47°40' 1"W	283.70'
SP 371	SP 370	S59°40'31"W	197.58'
SP 370	SP 369	S72° 1'10"W	669.89'
SP 369	SP 368	S18°30'17"W	339.51'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 371	PI 442	S47°40' 1"W	92.73'
SP 369	PL 440	N67°15'21"E	48.17'

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NO.	DATE	BY	DESCRIPTION
			REVISIONS

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 65+50 TO STA. 77+50

DSGN	DF	APPROVED	8/21/80
DRWN	FT		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 62,35	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 11 of 23
DRAWING NO. 8-C-8		



SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 369	SP 368	S18°30'17"W	339.51'
SP 368	SP 367	S12° 4'53"E	342.66'
SP 367	SP 366	S 3°26'23"W	318.09'
SP 366	SP 365	S12°14'54"W	168.36'
SP 365	SP 364	S56° 9'46"W	405.93
SP 364	SP 363	S37°52'46"W	277.71'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 368	PI 446	N28° 8'32"E	53.76'
SP 367	PI 444	N 3°26'23"E	27.93'
SP 365	PL 456	N41°13'52"E	15.52
SP 364	PI 458	N 6°33' 3"E	26.93'

PHOTO MAP BY RILEY, PARK, RAYDEN & ASSOCIATES

NO.	DATE	BY	DESCRIPTION	PLACES

REVISIONS

ENGINEERING SCIENCE, INC. / WILSON AND ASSOCIATES
57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

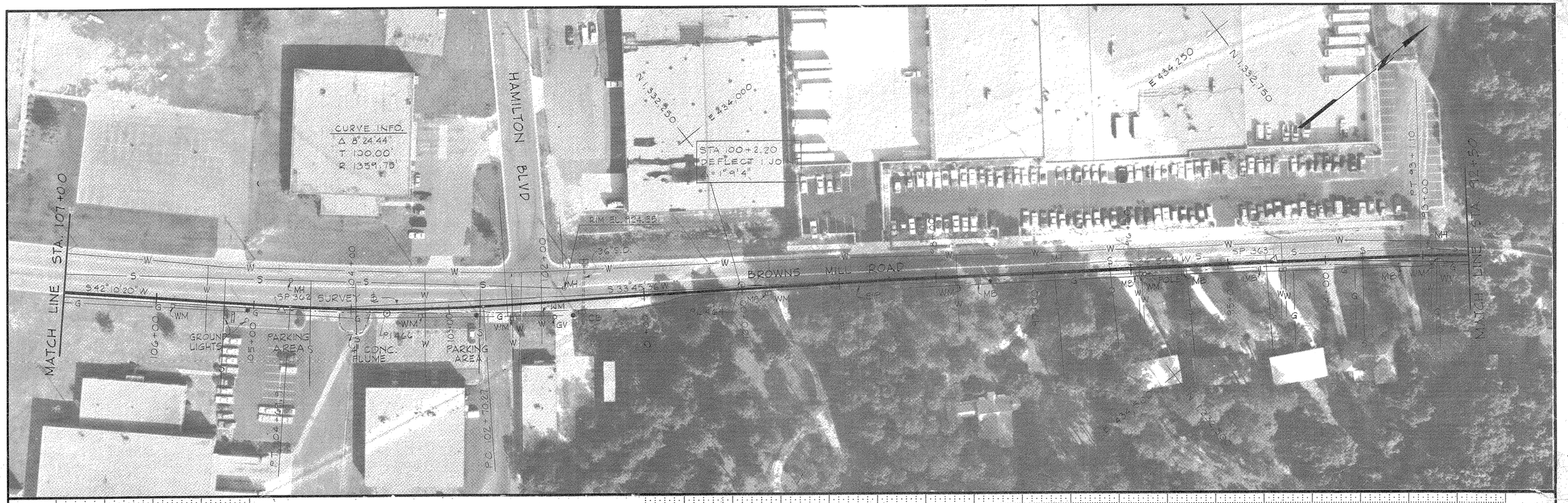
STA. 77+50 TO STA. 92+50

DSGN	DF	APPROVED	8/2/80
DRWN	FT		
CHKD	NP	SCALE 1"=50'	DATE 7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 62,35,34	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 12 of 23
DRAWING NO. 8-C-9		

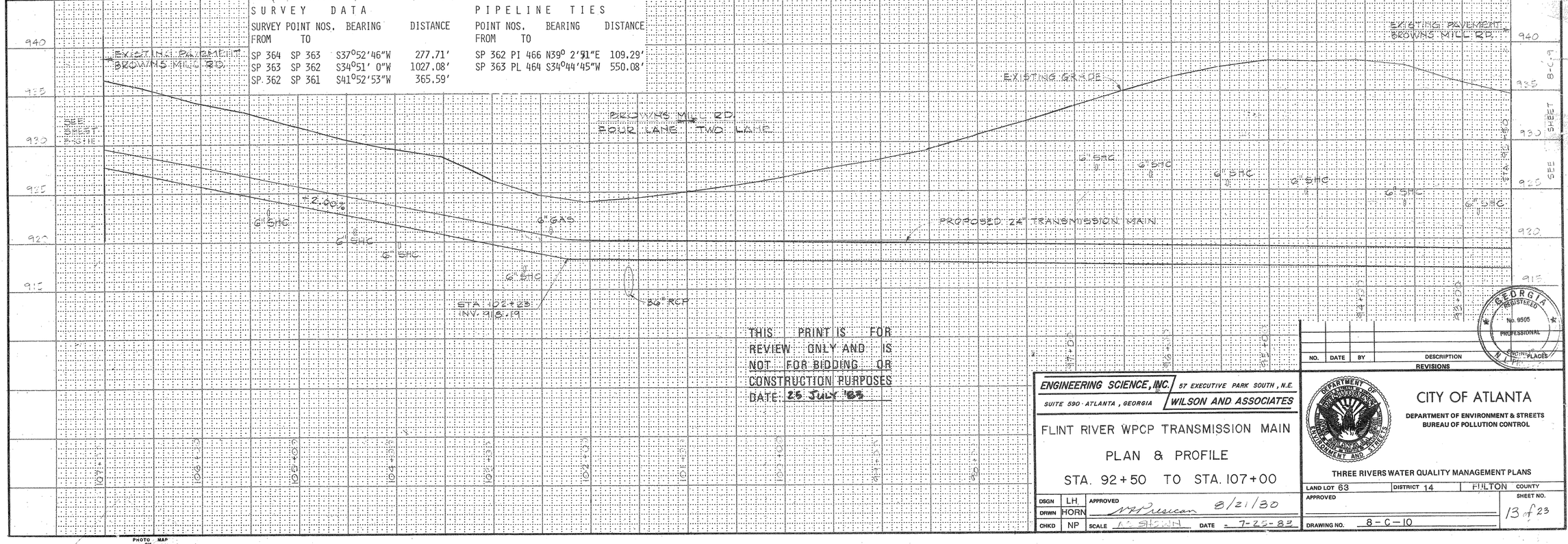


SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 364	SP 363	S37°52'46"W	277.71'
SP 363	SP 362	S34°51' 0"W	1027.08'
SP 362	SP 361	S41°52'53"W	365.59'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 362	PI 466	N39° 2'51"E	109.29'
SP 363	PL 464	S34°44'45"W	550.08'



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GEORGIA REGISTERED No. 9505 PROFESSIONAL ENGINEER PLACES

NO.	DATE	BY	DESCRIPTION
			REVISIONS

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 92+50 TO STA. 107+00

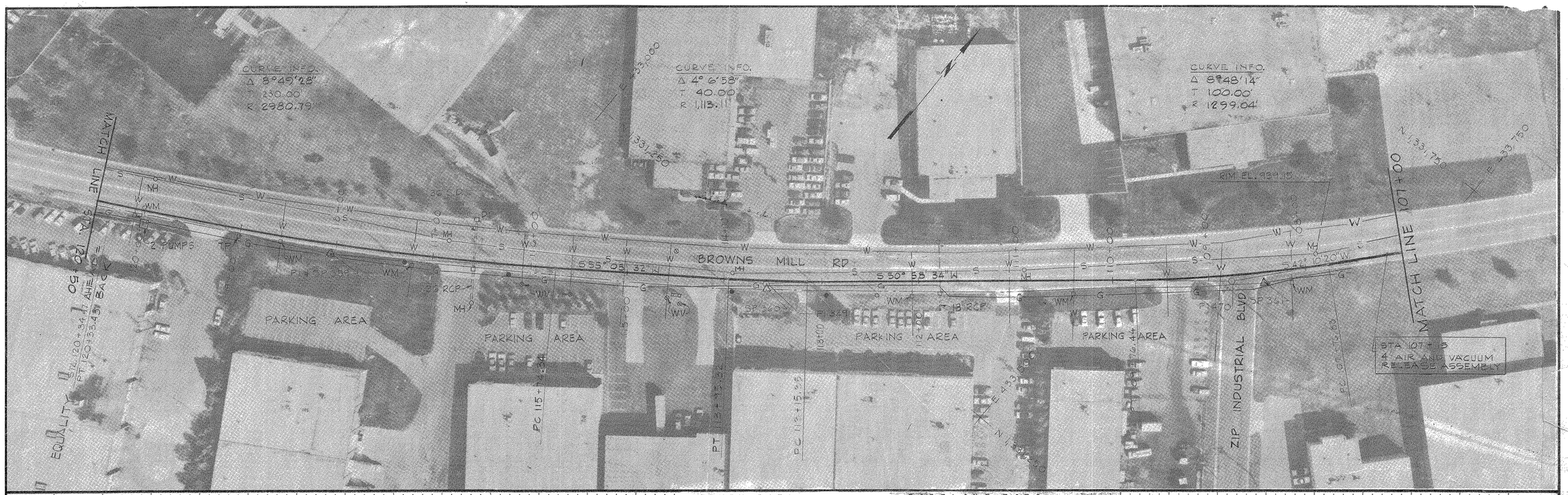
DSGN	LH	APPROVED	8/21/80
DRWN	HORN	SCALE	1" = 50'
CHKD	NP	DATE	7-25-83

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 63	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 13 of 23
DRAWING NO. 8-C-10		

PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES



SURVEY DATA			
SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 362	SP 361	S41°52'53"W	365.59
SP 361	SP 360	S50°37'02"W	511.76
SP 360	SP 359	S55°51'10"W	449.68
SP 359	SP 358	S63°55'00"W	448.76

PIPELINE TIES			
POINT NOS. FROM	TO	BEARING	DISTANCE
SP 361	PI 470	S55° 48' 40"W	33.14
SP 360	PI 349	N45° 07' 02"W	5.53
SP 359	PI 359	N00° 00' 00"W	0.00

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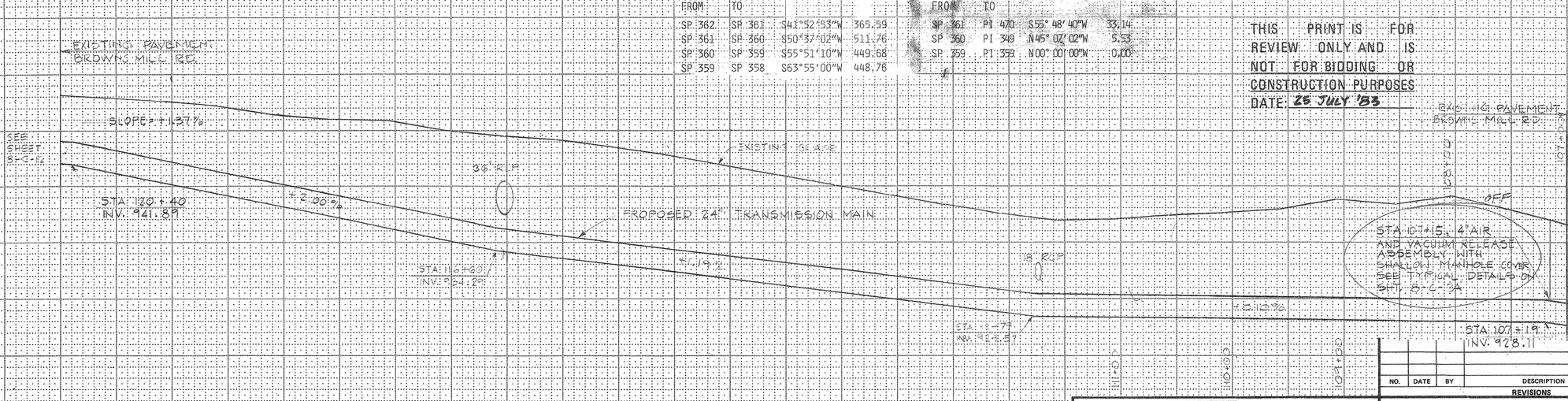


PHOTO MAP BY RILEY, PARK, RAYDEN & ASSOCIATES

NO.	DATE	BY	DESCRIPTION
			REVISIONS

GEORGIA REGISTERED No. 9505 PROFESSIONAL ENGINEER

ENGINEERING SCIENCE, INC. / 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA / WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 107+00 TO STA. 120+50

DSGN	CH	APPROVED	3/21/80
DRWN	HORN		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

CITY OF ATLANTA

DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 63	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 14 of 23
DRAWING NO. 8-C-11		

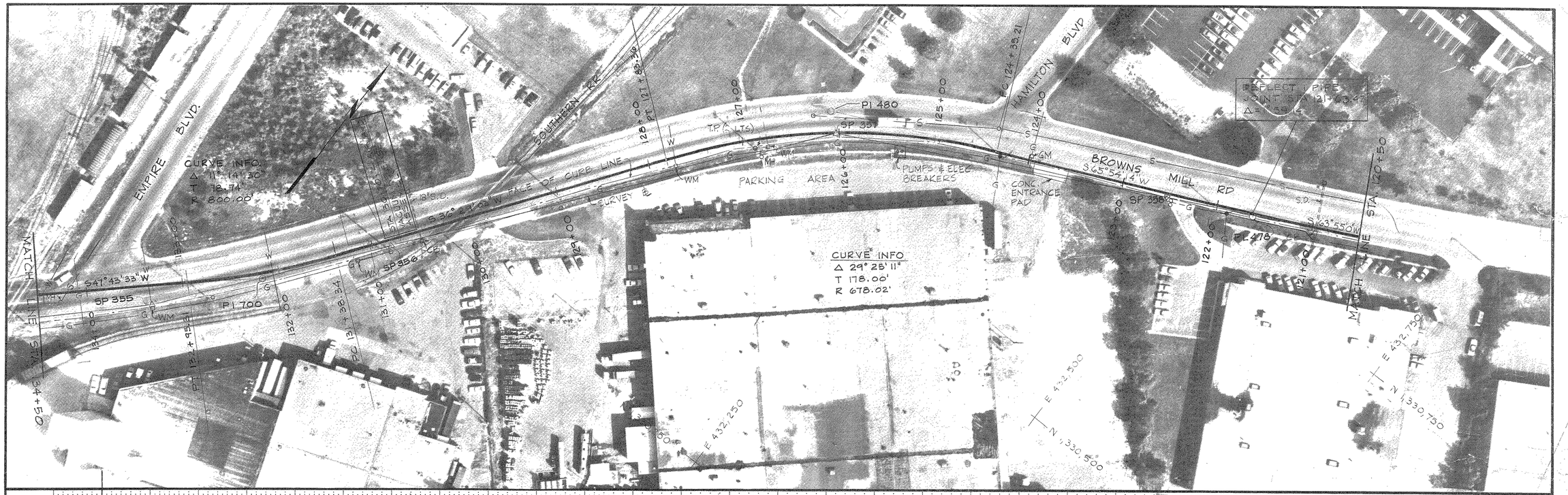
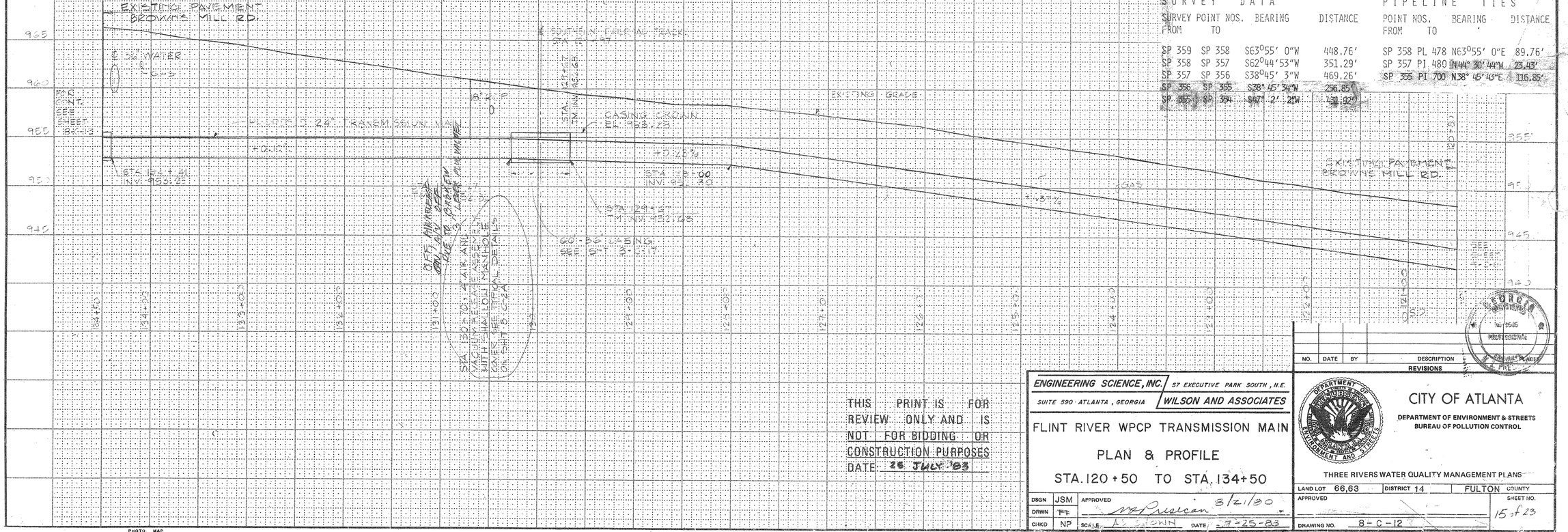


PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES



SURVEY DATA

SURVEY POINT NOS. FROM	TO	BEARING	DISTANCE
SP 359	SP 358	S63°55' 0"W	448.76'
SP 358	SP 357	S62°44'53"W	351.29'
SP 357	SP 356	S38°45' 3"W	469.26'
SP 356	SP 355	S38° 45' 34"W	256.85'
SP 355	SP 354	S47° 2' 25"W	451.92'

PIPELINE TIES

POINT NOS. FROM	TO	BEARING	DISTANCE
SP 358	PL 478	N63°55' 0"E	89.76'
SP 357	PI 480	N44° 30' 44"W	23.43'
SP 355	PI 700	N38° 45' 43"E	116.85'

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			REVISIONS

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

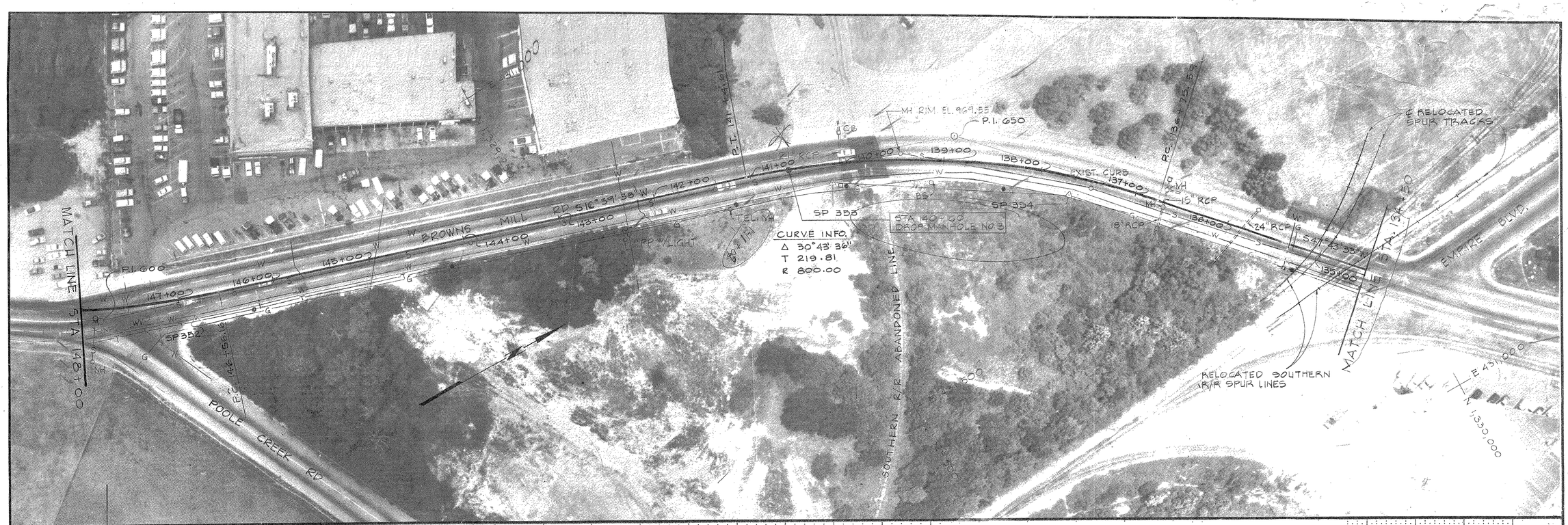
PLAN & PROFILE

STA. 120+50 TO STA. 134+50

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

DSGN JSM	APPROVED 8/21/80	LAND LOT 66,63	DISTRICT 14 FULTON COUNTY
DRWN TP	APPROVED		SHEET NO. 15 of 23
CHKD NP	SCALE 1" = 50' DATE 7-25-83	DRAWING NO. 8-C-12	

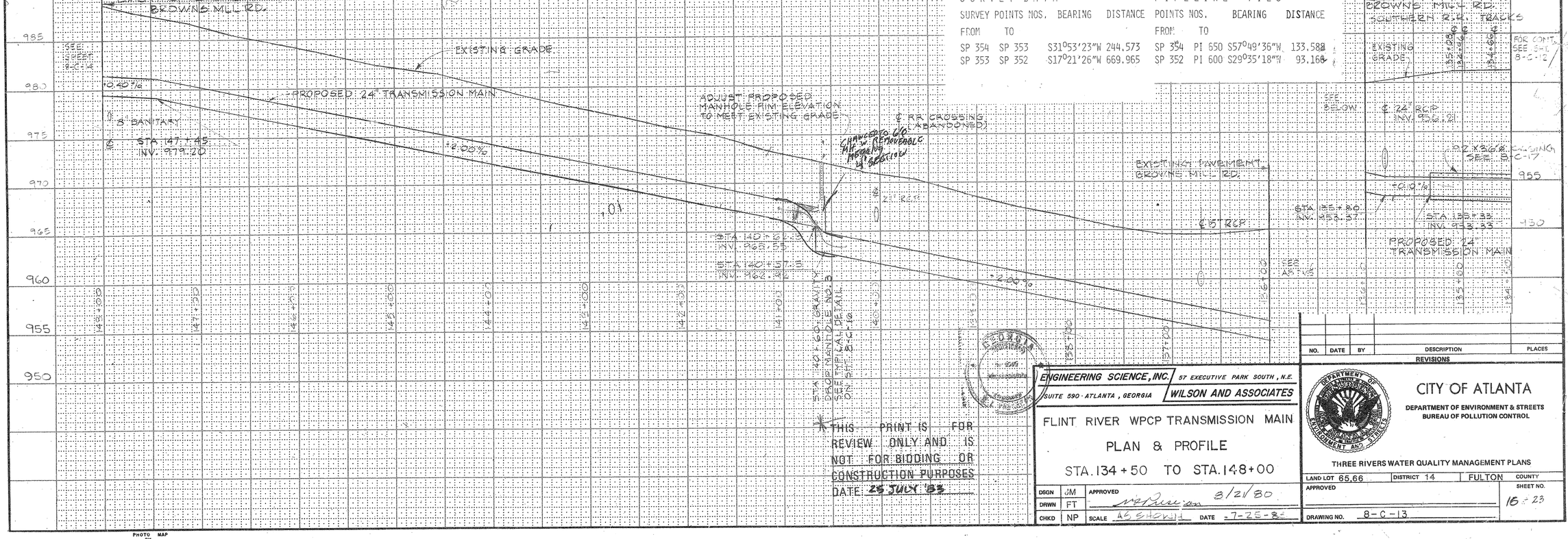


SURVEY DATA

SURVEY POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 354	SP 353	S31°53'23"W	244.573
SP 353	SP 352	S17°21'26"W	669.965

PIPELINE TIES

POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 354	PI 650	S57°49'36"W	133.588
SP 352	PI 600	S29°35'18"W	93.168



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DATE 25 JULY '83

PHOTO MAP BY RILEY, PARK, RAYDEN & ASSOCIATES

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA

WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 134+50 TO STA. 148+00

DSGN	JM	APPROVED	8/2/80
DRWN	FT		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

NO.	DATE	BY	DESCRIPTION	PLACES

REVISIONS

CITY OF ATLANTA

DEPARTMENT OF ENVIRONMENT & STREETS

BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

LAND LOT 65,66	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 16 of 23
DRAWING NO. 8-C-13		

AF 14492

CURVE INFO
Δ = 6° 29'07"
T = 120.00'
R = 2118.08'

CURVE INFO
Δ = 8° 09'58"
T = 120.00'
R = 1681.06'

CURVE INFO
Δ = 6°0'0"
T = 60.00'
R = 1144.87

LOOP F
RAMP E

N 1,927,500

E 429,278.78

MATCH LINE STA 163+00

P.T. 162+97.78

P.I. 103

SP 1953

S 39°49'16" W

A.C. 160+57.64

P.T. 160+19.45

P.I. 102

P.I. 101

SP 1951

S 11°55'4" W

S 89°8'4" W

2" GAS (ABANDONED)

STA. 156+09.55
1-45° BEND TURNED UP
TYPE 5 THRUST BLOCK
SEE DETAIL SHT. 8-C-19

STA 156+12.97
1-11¼° BEND HORIZ.
PROVIDE RESTRAINED JOINTS
STA. 155+94.97 TO STA 156+30.97
SEE DETAIL SHT 8-C-19

STA. 156+09.55
1-45° BEND TURNED DOWN
TIE DOWN BLOCK
SEE DETAIL SHT 8-C-19

P.C. 157+79.86

P.T. 157+32.86

P.C. 156+12.97

HENRY FORD II AVE.

SOUTHERN R.R.

CENTRAL AVE.

SP 400

STA. 151+38.00
1-45° BEND HORIZ
TYPE 5 THRUST BLOCK
SEE DETAIL SHT. 8-C-19

STA. 151+94.83
1-45° BEND HORIZ.
TYPE 5 THRUST BLOCK
SEE DETAIL SHT 8-C-19

S 53°49'56" W

BROWNS MILL RD.

BLOW OFF VALVE

W/LIGHT

TEL MH

SP 351

MATCH LINE STA 148+00

P.T. 149+3.76

N 1,928,750

E 430,750

CURVE INFO
Δ = 17°43'59"
T = 124.80
R = 800.00

HIGH POINT STRUCTURE
SEE DETAILS, SHT 8-C-18

2007

PL 9

PL 8

10.8 MGD

PLAN WAS TO HARD PIPE THIS MH BUT WAS NOT COMPLETED.

SEE JOB/EDT 16/2002 ALIGNMENT 3.3 Acre Site for office Development DRAWINGS

ATLANTA TRADEPORT

EXISTING PAVEMENT - BROWNS MILL RD.

SEE SHEET 8-C-15

SEE SHEET 8-C-13

HENRY FORD II AVE.

CENTRAL AVE

2" GAS (ABANDONED)

6" GAS

2" GAS

TEL

12" WATER

TEL

ADJUST PROPOSED MANHOLE RIM ELEVATION TO MEET EXISTING GRADE

GGAS

EXISTING 36"ø CASING

PROPOSED 24" TRANSMISSION MAIN

STA 150+92.80
INV. 967.50
(VERIFY IN FIELD)

STA 152+23.70
INV. 972.80
(VERIFY IN FIELD)

STA. 149+73
INV. 982.00

STA. 149+58.67
INV. 982.00

STA. 149+50
INV. 980.00

NOTE: NEW 24" TRANSMISSION MAIN SHALL BE INSTALLED IN EXISTING PLUGGED CASING PER STEEL CASING DETAILS ON SHT. 8-C-17

990
985
980
975
970
965
960

163+00 162+00 161+00 160+00 159+00 158+00 157+00 156+00 155+00 154+00 153+00 152+00 151+00 150+00 149+00 148+00

SURVEY DATA

SURVEY POINTS NOS.		BEARING	DISTANCE
FROM	TO		
SP 351	SP 400	S36°21'47"W	470.814
SP 400	SP 1951	S29°31'01"W	126.930
SP 1951	SP 1953	S11°35'03"W	708.828

PIPELINE TIES

POINTS NOS.		BEARING	DISTANCE
FROM	TO		
SP 351	PL 9	S41°36'44"W	297.666
SP 351	PL 8	S33°37'34"W	333.760
SP 400	PI 101	S21°40'59"W	345.572
SP 400	PI 102	S17°48'03"W	570.570
SP 400	PI 103	S13°11'46"W	843.112

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DATE: 25 JULY '83

NO.	DATE	BY	DESCRIPTION	PLACES

REVISIONS

ENGINEERING-SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 ATLANTA, GEORGIA
WILSON AND ASSOCIATES

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

FLINT RIVER WPCP MODIFICATIONS

PLAN & PROFILE

STA. 148 + 00 TO STA. 163 + 00

THREE RIVERS WATER QUALITY MANAGEMENT PROGRAM

DSGN.	WMR	APPROVED
DRWN.	HLR	
CHKD.		SCALE AS SHOWN DATE 7-26-83

LAND LOT 65 | DISTRICT 14 | FULTON COUNTY

APPROVED

DRAWING NO. 8-C-14

17 OF 23

REPRO PRODUCTS

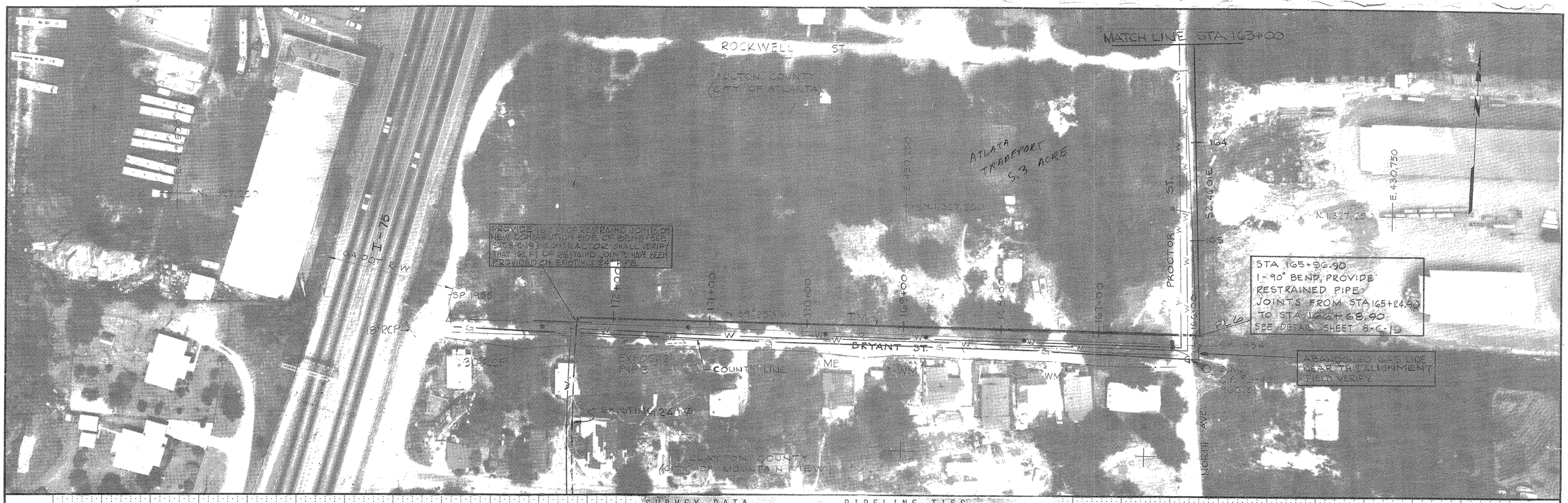


PHOTO MAP BY RILEY, PARK, HAYDEN & ASSOCIATES

SURVEY DATA

SURVEY POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 1953	SP 1954	S03°51'23"E	446.57
SP 1954	SP 1955	N89°04'01"W	765.64
SP 1955	SP 1019	S37°38'03"W	44.56
SP 1019	SP 1020	S15°03'47"W	786.50

PIPELINE TIES

POINTS NOS. FROM	TO	BEARING	DISTANCE
SP 1954	PL 6	N13°59'11"E	10.85

NOTE: CONTRACTOR SHALL FIELD VERIFY EXISTING GROUND CONTOURS AND MAINTAIN 4FT MIN. COVER OVER PROPOSED TRANSMISSION MAIN

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY 1983

NO.	DATE	BY	DESCRIPTION
			REVISIONS

REGISTERED LA No. 565 PROFESSIONAL PLACES N. L. PRESLEY

ENGINEERING SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

STA. 163+00 TO STA. 172+00

DSGN	DF	APPROVED	8/21/80
DRWN	HORN		
CHKD	NP	SCALE 1"=5' H 1"=5' V	DATE 7-25-83

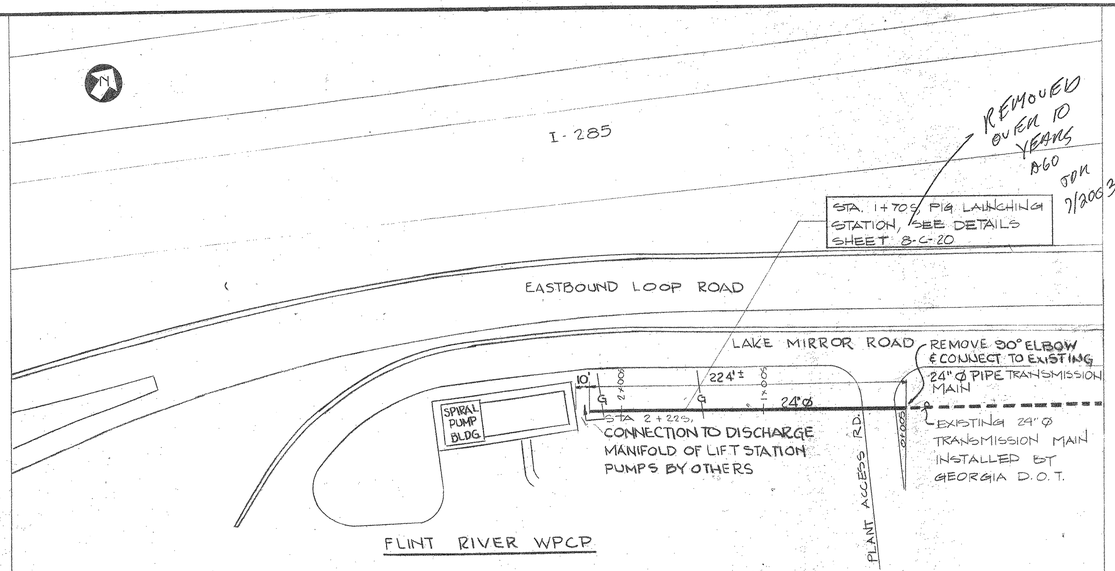
DEPARTMENT OF ENVIRONMENT & STREETS

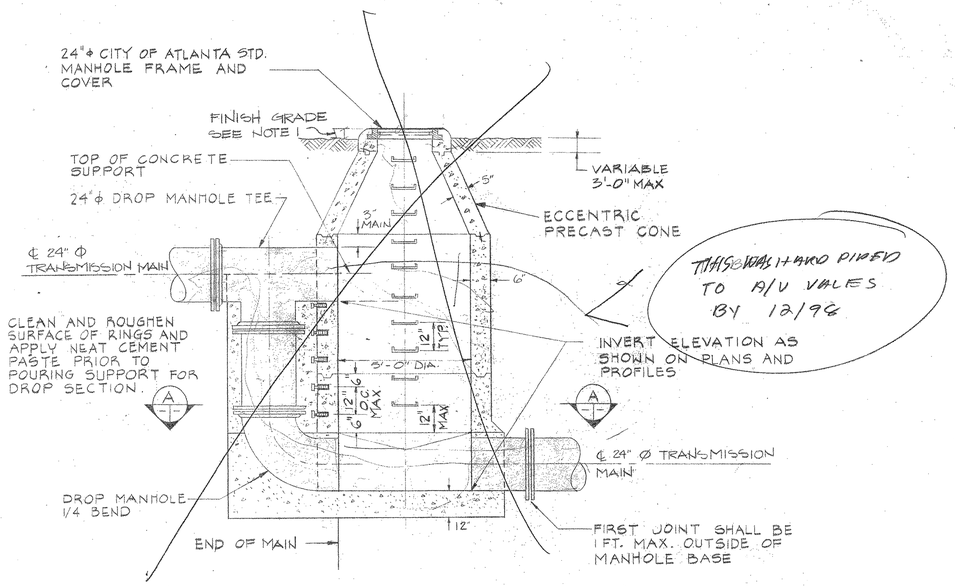
CITY OF ATLANTA

DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

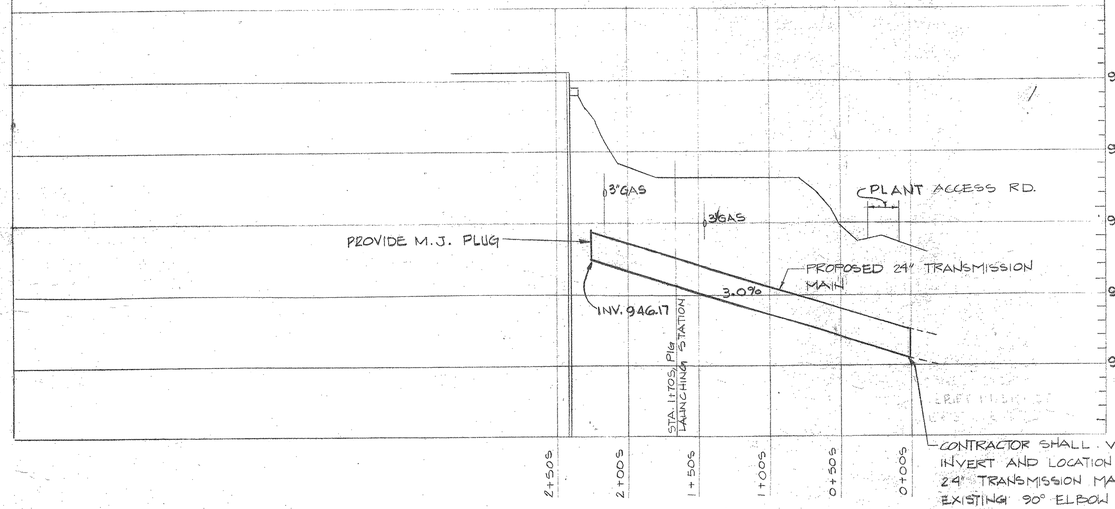
LAND LOT 65	DISTRICT 14	FULTON COUNTY
APPROVED		SHEET NO. 18 of 23
DRAWING NO. 8-C-15		

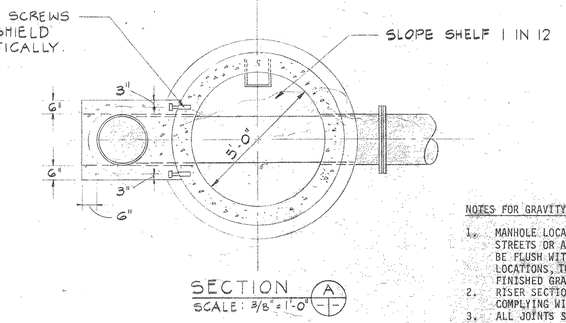




TYPICAL GRAVITY DROP MANHOLE DETAIL

SCALE: 3/8" = 1'-0" (SHADED PIPE NOT INCLUDED IN THIS PAY ITEM)





NOTES FOR GRAVITY DROP MANHOLE

1. MANHOLE LOCATION IN OR IMMEDIATELY ADJACENT TO STREETS OR ACCESS ROADS: TOP OF STRUCTURE SHALL BE FLUSH WITH PAVEMENT OR GRADE, FOR OTHER LOCATIONS, TOP OF STRUCTURE SHALL BE 6" ABOVE FINISHED GRADE OR AS SHOWN ON PLANS AND PROFILES.
2. RISER SECTIONS SHALL BE REINFORCED PRECAST CONCRETE COMPLYING WITH ASTM C478.
3. ALL JOINTS SHALL BE EMBEDDED IN CEMENT MORTAR.
4. THE DROP MANHOLE TEE SHALL ENTER THE 5'-0" DIAMETER RING.

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '03

NO.	DATE	BY	DESCRIPTION	PLACES

REVISIONS

ENGINEERING-SCIENCE, INC. / 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA / WILSON AND ASSOCIATES

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

FLINT RIVER WPCP TRANSMISSION MAIN

PLAN & PROFILE

FLINT RIVER WPCP CONNECTION
STA. 0+00S TO STA. 2+22S
AND MISCELLANEOUS DETAILS

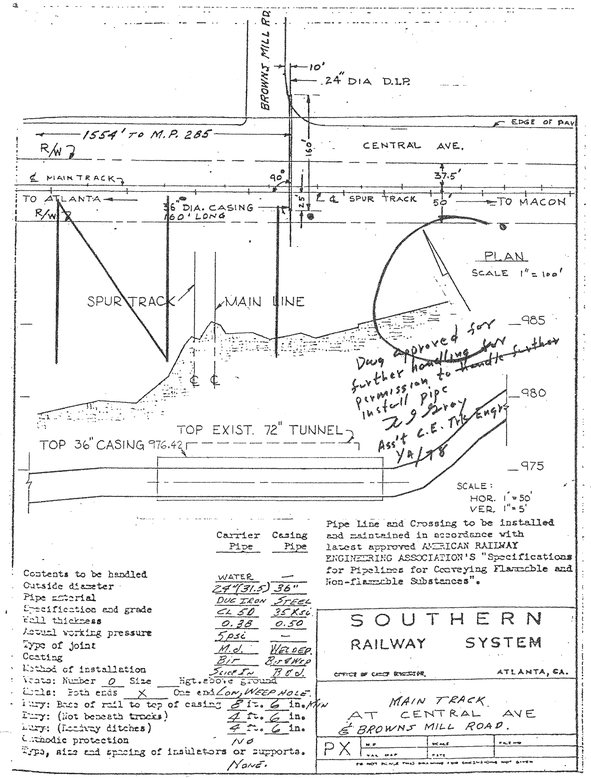
THREE RIVERS WATER QUALITY MANAGEMENT PLANS

DSGN	WR	APPROVED	
DRWN	RB		
CHKD	HR	SCALE AS NOTED	DATE 7-25-83

LAND LOT	DISTRICT	CLAYTON	COUNTY
APPROVED			

DRAWING NO. 8-C-16

19 OF 23



Drwg approved for further handling for permission to install Pipe
2-9 Survey
Ass't C.E. Tyte Engrs
Y&T 8

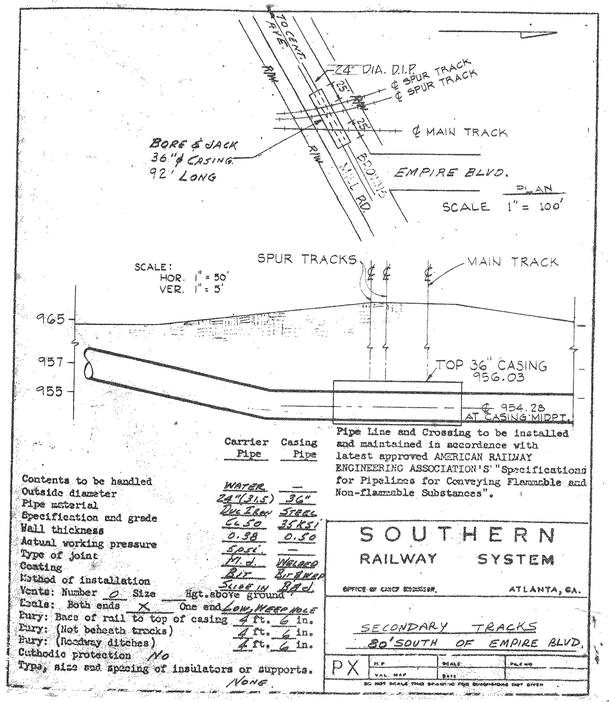
	Carrier Pipe	Casing Pipe
Contents to be handled	WATER	—
Outside diameter	24"(31.5)	36"
Pipe material	DUC IRON	STEEL
Specification and grade	CL 50	35 KSI
Wall thickness	0.38	0.50
Actual working pressure	5 PSI	—
Type of joint	M.J.	WELDED
Coating	BIT	BITUMUS
Method of installation	SLICE IN	R&L
Vents: Number 0 Size — Hgt. above ground		
Ends: Both ends X One end LOW, WEEP HOLE		
Bury: Bacs of rail to top of casing 8 ft. 6 in. MIN		
Bury: (Not beneath tracks) 4 ft. 6 in.		
Bury: (Roadway ditches) 4 ft. 6 in.		
Cathodic protection NO		
Type, size and spacing of insulators or supports. NONE.		

Pipe Line and Crossing to be installed and maintained in accordance with latest approved AMERICAN RAILWAY ENGINEERING ASSOCIATION'S "Specifications for Pipelines for Conveying Flammable and Non-flammable Substances".

SOUTHERN RAILWAY SYSTEM
OFFICE OF CHIEF ENGINEER, ATLANTA, GA.

MAIN TRACK AT CENTRAL AVE & BROWNS MILL ROAD.

PX | H.P. | SCALE | FILE NO. | VAL. MAP | DATE | DO NOT SCALE THIS DRAWING FOR DIMENSIONS NOT GIVEN



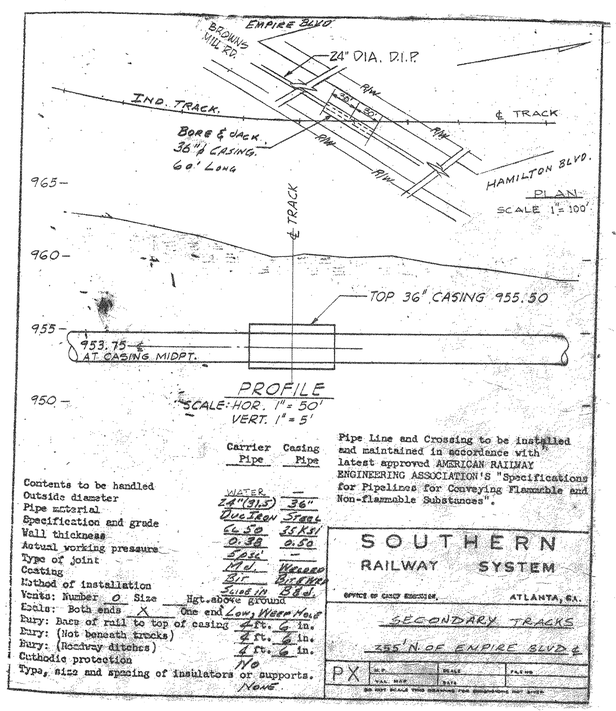
	Carrier Pipe	Casing Pipe
Contents to be handled	WATER	—
Outside diameter	24"(31.5)	36"
Pipe material	DUC IRON	STEEL
Specification and grade	CL 50	35 KSI
Wall thickness	0.38	0.50
Actual working pressure	5 PSI	—
Type of joint	M.J.	WELDED
Coating	BIT	BITUMUS
Method of installation	SLICE IN	R&L
Vents: Number 0 Size — Hgt. above ground		
Ends: Both ends X One end LOW, WEEP HOLE		
Bury: Bacs of rail to top of casing 4 ft. 6 in.		
Bury: (Not beneath tracks) 4 ft. 6 in.		
Bury: (Roadway ditches) 4 ft. 6 in.		
Cathodic protection NO		
Type, size and spacing of insulators or supports. NONE.		

Pipe Line and Crossing to be installed and maintained in accordance with latest approved AMERICAN RAILWAY ENGINEERING ASSOCIATION'S "Specifications for Pipelines for Conveying Flammable and Non-flammable Substances".

SOUTHERN RAILWAY SYSTEM
OFFICE OF CHIEF ENGINEER, ATLANTA, GA.

SECONDARY TRACKS 30' SOUTH OF EMPIRE BLVD.

PX | H.P. | SCALE | FILE NO. | VAL. MAP | DATE | DO NOT SCALE THIS DRAWING FOR DIMENSIONS NOT GIVEN



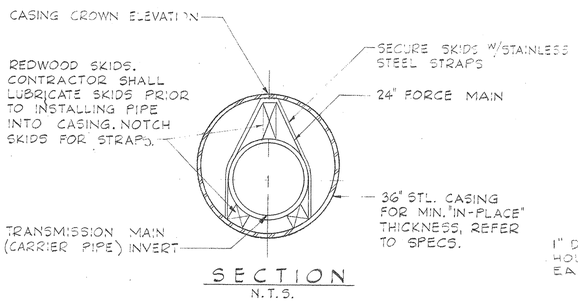
	Carrier Pipe	Casing Pipe
Contents to be handled	WATER	—
Outside diameter	24"(31.5)	36"
Pipe material	DUC IRON	STEEL
Specification and grade	CL 50	35 KSI
Wall thickness	0.38	0.50
Actual working pressure	5 PSI	—
Type of joint	M.J.	WELDED
Coating	BIT	BITUMUS
Method of installation	SLICE IN	R&L
Vents: Number 0 Size — Hgt. above ground		
Ends: Both ends X One end LOW, WEEP HOLE		
Bury: Bacs of rail to top of casing 4 ft. 6 in.		
Bury: (Not beneath tracks) 4 ft. 6 in.		
Bury: (Roadway ditches) 4 ft. 6 in.		
Cathodic protection NO		
Type, size and spacing of insulators or supports. NONE.		

Pipe Line and Crossing to be installed and maintained in accordance with latest approved AMERICAN RAILWAY ENGINEERING ASSOCIATION'S "Specifications for Pipelines for Conveying Flammable and Non-flammable Substances".

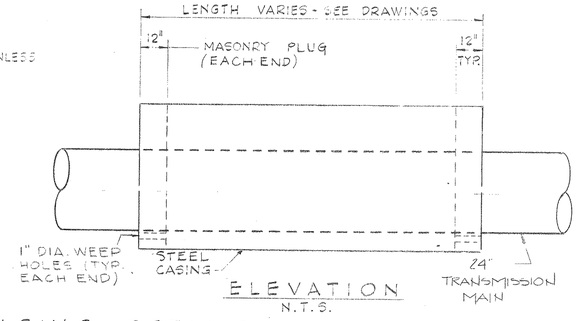
SOUTHERN RAILWAY SYSTEM
OFFICE OF CHIEF ENGINEER, ATLANTA, GA.

SECONDARY TRACKS 255' N. OF EMPIRE BLVD. ℄

PX | H.P. | SCALE | FILE NO. | VAL. MAP | DATE | DO NOT SCALE THIS DRAWING FOR DIMENSIONS NOT GIVEN



SECTION
N.T.S.



ELEVATION
N.T.S.

STEEL CASING DETAILS

FOR RAILROAD & OTHER CROSSINGS AS INDICATED ON SHTS. 8-C-1 THRU 8-C-16

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '83

GEORGIA REGISTERED No. 9505 PROFESSIONAL ENGINEER N.P. PRESCIMAN

NO.	DATE	BY	DESCRIPTION	PLACES
			REVISIONS	

ENGINEERING-SCIENCE, INC. / 57 EXECUTIVE PARK SOUTH, N.E. SUITE 390 · ATLANTA, GEORGIA / WILSON AND ASSOCIATES

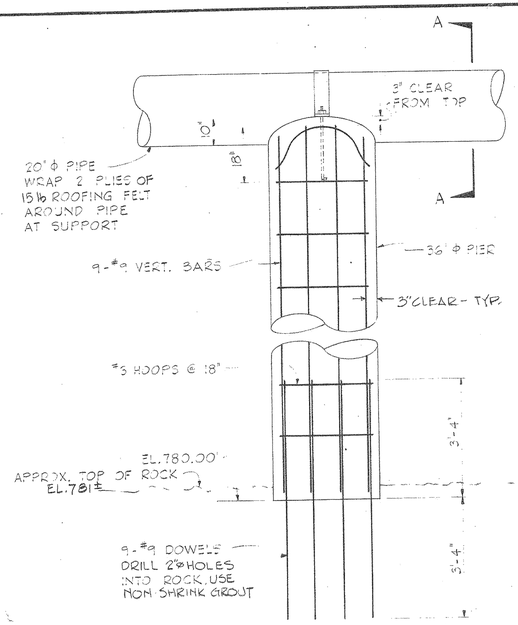
FLINT RIVER WPCP TRANSMISSION MAIN

RAILROAD CROSSINGS

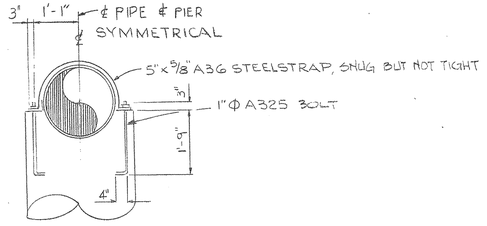
CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

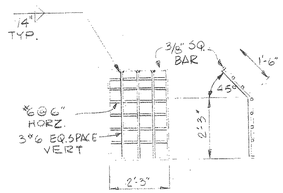
DSGN		APPROVED		LAND LOT	DISTRICT	COUNTY
DRWN						
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83	APPROVED		20 of 23
				DRAWING NO. 8-C-17		



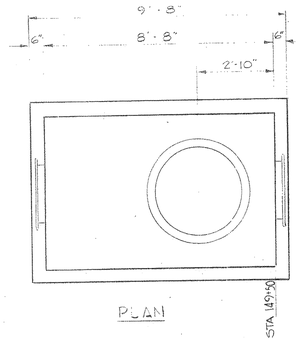
TYPICAL PIER DETAIL
N.T.S.



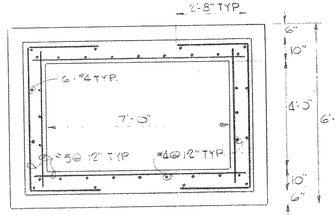
SECTION "A-A"
N.T.S.



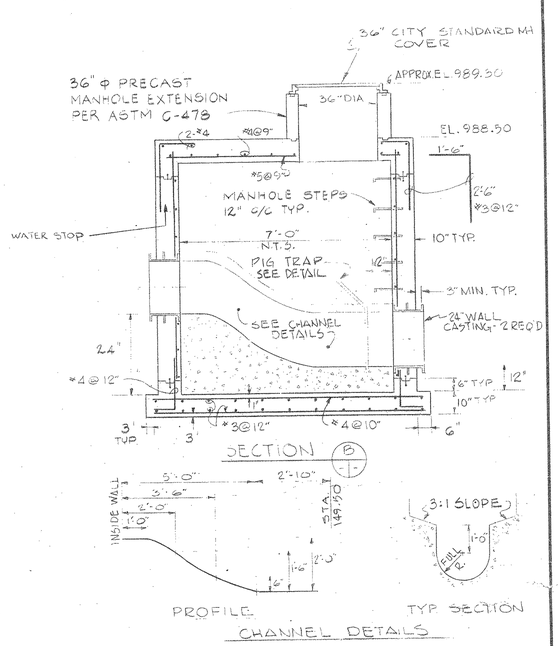
PIG TRAP DETAIL



PLAN



REINFORCING PLAN

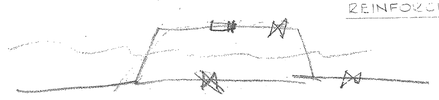


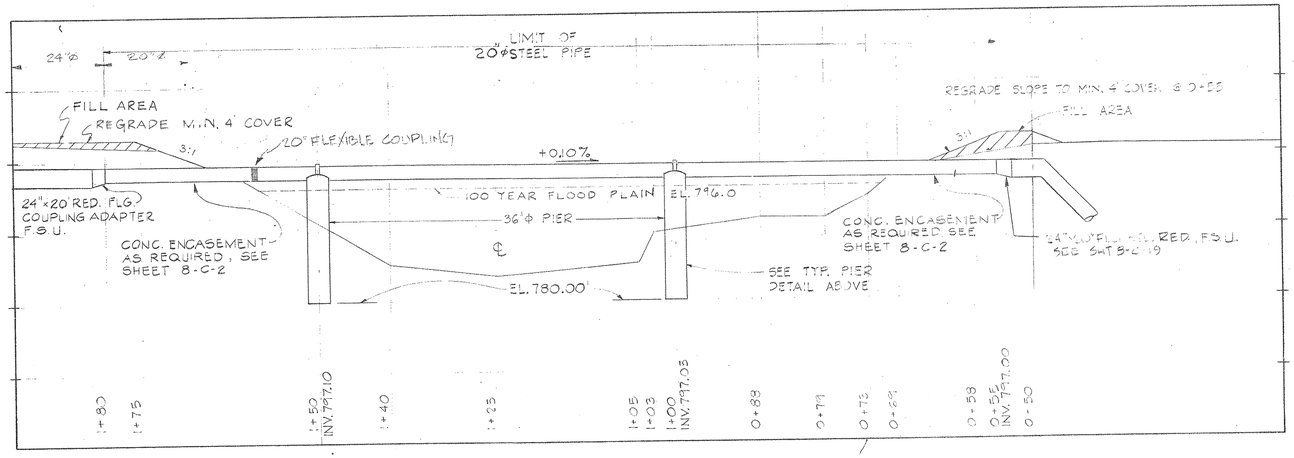
SECTION

PROFILE TYP SECTION

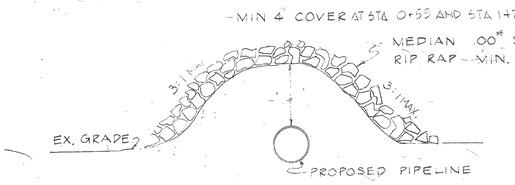
CHANNEL DETAILS

HIGH POINT STRUCTURE
(SEE 8-C-14 FOR LOCATION)





SOUTH RIVER CROSSING PROFILE
SCALE 1"=10'-0"



TYPICAL SECTION
THRU PIPELINE IN FILL AREA
SCALE: 1/4" = 1'-0"

GEORGIA REGISTERED No. 9565 PROFESSIONAL ENGINEER N. PRESSLEY

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '83

NO.	DATE	BY	DESCRIPTION	PLACES
			REVISIONS	

ENGINEERING-SCIENCE, INC. / WILSON AND ASSOCIATES
57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA

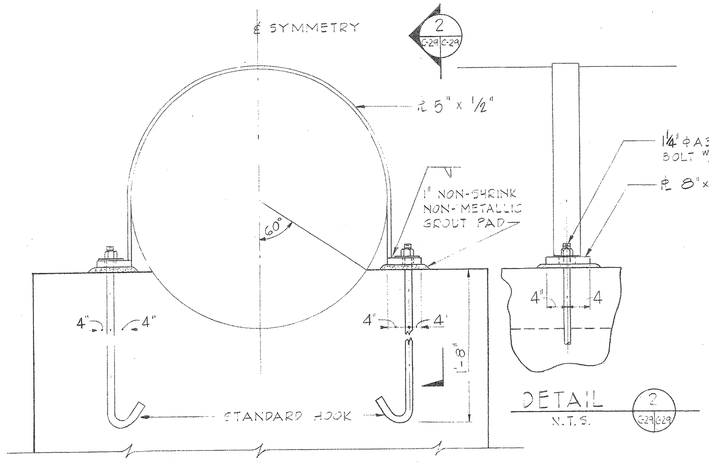
FLINT RIVER WPCP TRANSMISSION MAIN
DETAIL

CITY OF ATLANTA
DEPARTMENT OF ENVIRONMENT & STREETS
BUREAU OF POLLUTION CONTROL

THREE RIVERS WATER QUALITY MANAGEMENT PLANS

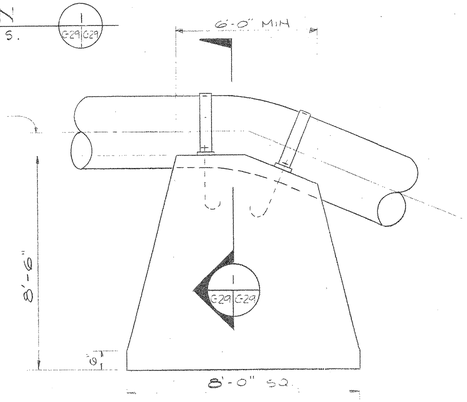
DSGN	BS	APPROVED	8/21/80
DRWN	HORN		
CHKD	NP	SCALE AS SHOWN	DATE 7-25-83

LAND LOT | DISTRICT | COUNTY
APPROVED
DRAWING NO. 8-C-18
21 of 23



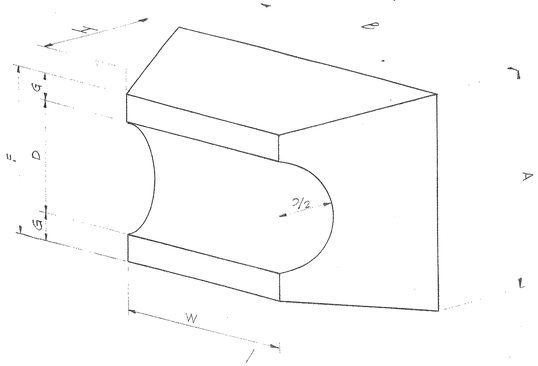
SECTION
N.T.S.
1
S-29 C-29

NOTES:
1. TIE DOWN LOCATION AS SHOWN IN THRUST RESTRAINTS TABLE.
2. ALL STEEL TO ASTM A-36
3. ALL PARTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.



ELEVATION
N.T.S.

TIE DOWN BLOCK DETAILS



ISOMETRIC

THRUST BLK. TYPE	DIMENSIONS (FEET) A	B	H	F	W	G	D	VOL. CONC. (CU.YDS.)
1	8.0	18.0	7.0	3.15	4.0	0.5	2.15	42.4
2	5.0	8.0	4.0	3.15	3.0	0.5	2.15	4.1
3	6.0	14.0	5.0	3.15	4.0	0.5	2.15	10.0
4	4.0	6.0	4.0	3.15	3.0	0.5	2.15	2.7
5	6.0	8.0	4.0	3.15	3.0	0.5	2.15	4.9

NOTE: THRUST BLOCK LOCATION AS SHOWN IN THRUST RESTRAINTS TABLE.

THRUST BLOCK
N.T.S.

PIPE SIZE ϕ	NO.	P.I. STATION	ANGLE OF BEND	THRUST BLOCK TYPE	RESTRAINED JOINT PIPE LENGTH (TOT.)	MAX. SEG. STA.	MIN. END STA.	DWG. NO.
24"	1	1+55.00N	90°H 11¼°V	T.B.#1	—	—	—	8-C-2A
24"	2	2+76.95N	22½°H	T.B.#2	—	—	—	8-C-2A
24"	3	3+65.48N	22½°H	T.B.#2	—	—	—	8-C-A
24"	4	0+44.67	45°V	—	82.33	0+27.33N	AT STEEL PIPE 0+55.00	8-C-2A
24"	5	0+50.00	11¼°H 45°V	T.D.	—	—	—	8-C-2A
24"	6	7+50.00	2-45°V	-	180.00	6+60.00	8+40.00	8-C-3
24"	7	27+50.00	2-45°V	—	180.00	26+60.00	28+40.00	8-C-4
24"	8	44+89.60 45+40.34	22½°H 45°H	—	104.74	44+71.60	45+76.34	8-C-6
24"	9	54+89.65	90°H	T.B.#3	—	—	—	8-C-7
24"	10	57+19.71	22½°H	T.B.#4	—	—	—	8-C-7
24"	11	75+78.17	45°H	T.B.#5	—	—	—	8-C-8
24"	12	87+51.53	45°H	—	144.00	86+79.53	88+23.53	8-C-9
24"	13	151+38.00	45°H	T.B.#5	—	—	—	8-C-14
24"	14	151+94.83	45°H	T.B.#5	—	—	—	8-C-14
24"	15	155+97.80	45°V	T.D.	—	—	—	8-C-14
24"	16	156+09.55	45°V	T.B.#5	—	—	—	8-C-14
24"	17	156+12.97	11¼°H	-	36.00	155+94.97	156+30.97	8-C-14
24"	18	165+96.90	90°H	-	144.00	165+24.97	166+68.90	8-C-15
24	19	NEAR STA 172+00	90°H	-	162.00	SEE DWG.	8-C-15	8-C-15

V DENOTES VERTICAL
H DENOTES HORIZONTAL
TD DENOTES TIE DOWN BLOCK
TB DENOTES THRUST BLOCK

THRUST RESTRAINTS TABLE

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE 18 MAR '83

GEORGIA REGISTERED PROFESSIONAL No. 12856 ENGINEER HENRY WILSON

NO.	DATE	BY	DESCRIPTION
			REVISIONS

ENGINEERING-SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

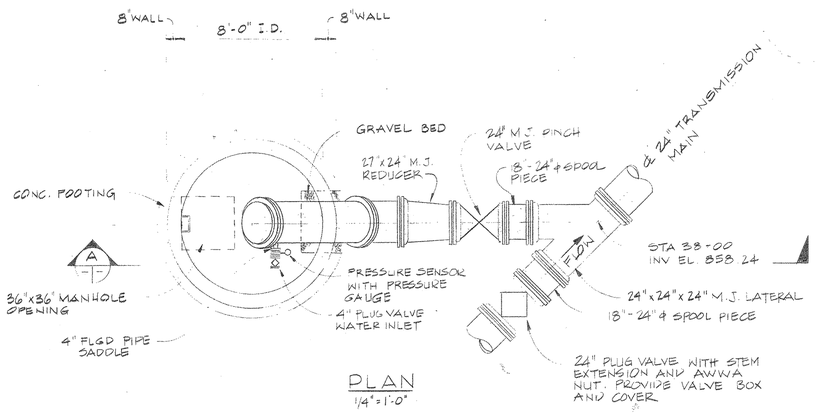
CITY OF ATLANTA
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING AND CONSTRUCTION
ENVIRONMENTAL AND WATER RESOURCES

FLINT RIVER WPCP TRANSMISSION MAIN
THRUST RESTRAINTS

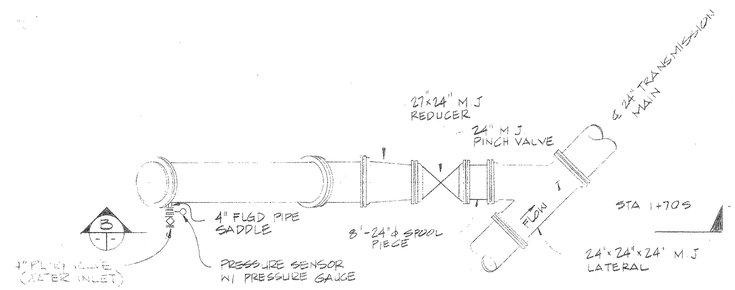
THREE RIVERS WATER QUALITY

DSGN	B.S.	APPROVED	8/21/80
DRWN	HORN		
CHKD	H.F.	SCALE AS SHOWN	DATE AUG 977

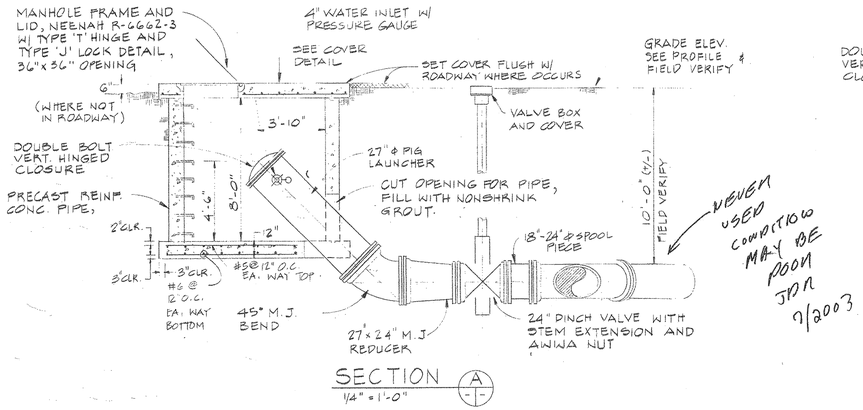
LAND LOT | DISTRICT
APPROVED
DRAWING NO. 8-C-15



PLAN
1/4"=1'-0"

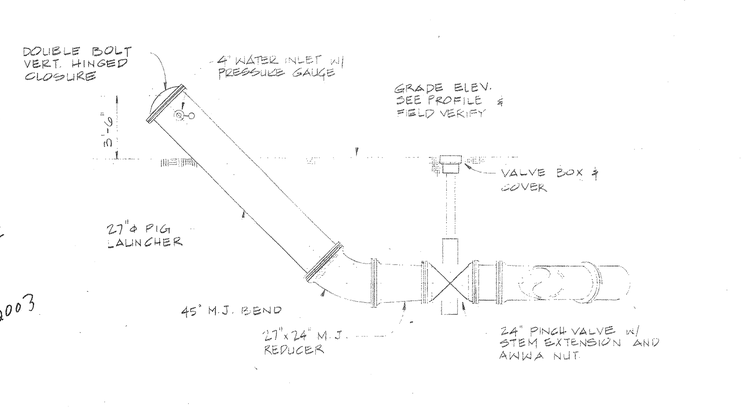


PLAN
1/4"=1'-0"



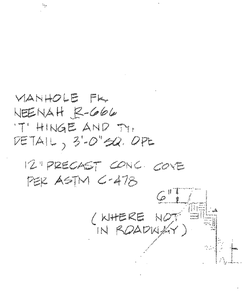
SECTION (A)
1/4"=1'-0"

PIG LAUNCHING STATION DETAIL
STA 38+00 (SHADED PIPING NOT INCLUDED IN THIS PAY ITEM)

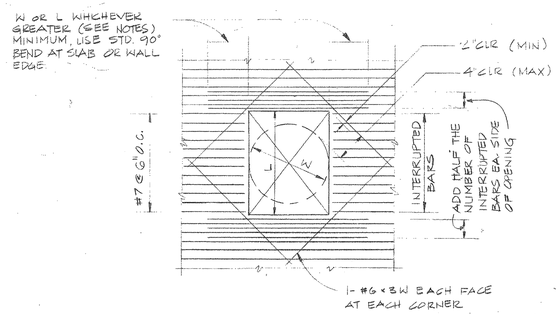


SECTION (B)
1/4"=1'-0"

PIG LAUNCHING STATION DETAIL
STA 1+70.5



SECT
3/8"=1'-0



BARS SHOWN IN ONE DIRECTION ONLY FOR CLARITY THIS DETAIL APPLIES TO BARS IN EACH DIRECTION.

NOTES:
1. FOR RECTANGULAR OPENINGS BAR LENGTH SHALL BE BASED UPON THE LARGER OF THE TWO DIMENSIONS.
2. DETAIL APPLIES TO WALL AND SLAB OPENING
3.

BAR SIZE	L
#3 AND #4	2'-0"
#5 THRU #8	3'-4"
#9 AND #10	4'-8"
#11	7'-0"

TYPICAL CONCRETE OPENING REINFORCING DETAIL
NO SCALE

THIS PRINT IS FOR REVIEW ONLY AND IS NOT FOR BIDDING OR CONSTRUCTION PURPOSES
DATE: 25 JULY '83

NO.	DATE	BY

ENGINEERING-SCIENCE, INC. 57 EXECUTIVE PARK SOUTH, N.E. SUITE 590 · ATLANTA, GEORGIA
WILSON AND ASSOCIATES

FLINT RIVER WPCP TRANSMISSION MAIN

MISCELLANEOUS DETAILS

DSGN	WR	APPROVED	
DRWN	FT		
CHKD	HR	SCALE AS NOTED	DATE 7-22-83