FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22
115

CUYAHOGA COUNTY
CUY.-480-18.43

Note: A Minimum flow of 53 cubic feet per second must be maintained in the Ohio Canal at all times. The Contractor is directed to furnish the Engineer his construction procedure for the proposed storm sewer under the Canal for the Engineer's approval prior to the beginning of construction of the sewer.

old CFN 184801882
new CFN 1885308
SLM 18.82, 96"
SEE SHEET 28
AND 29

CFN 184801875
SLM 18.75, 96"
SEE SHEET 28

SLM 18.93, 8"
SEE SHEET 34

SLM 18.93, 12"
SEE SHEET 34

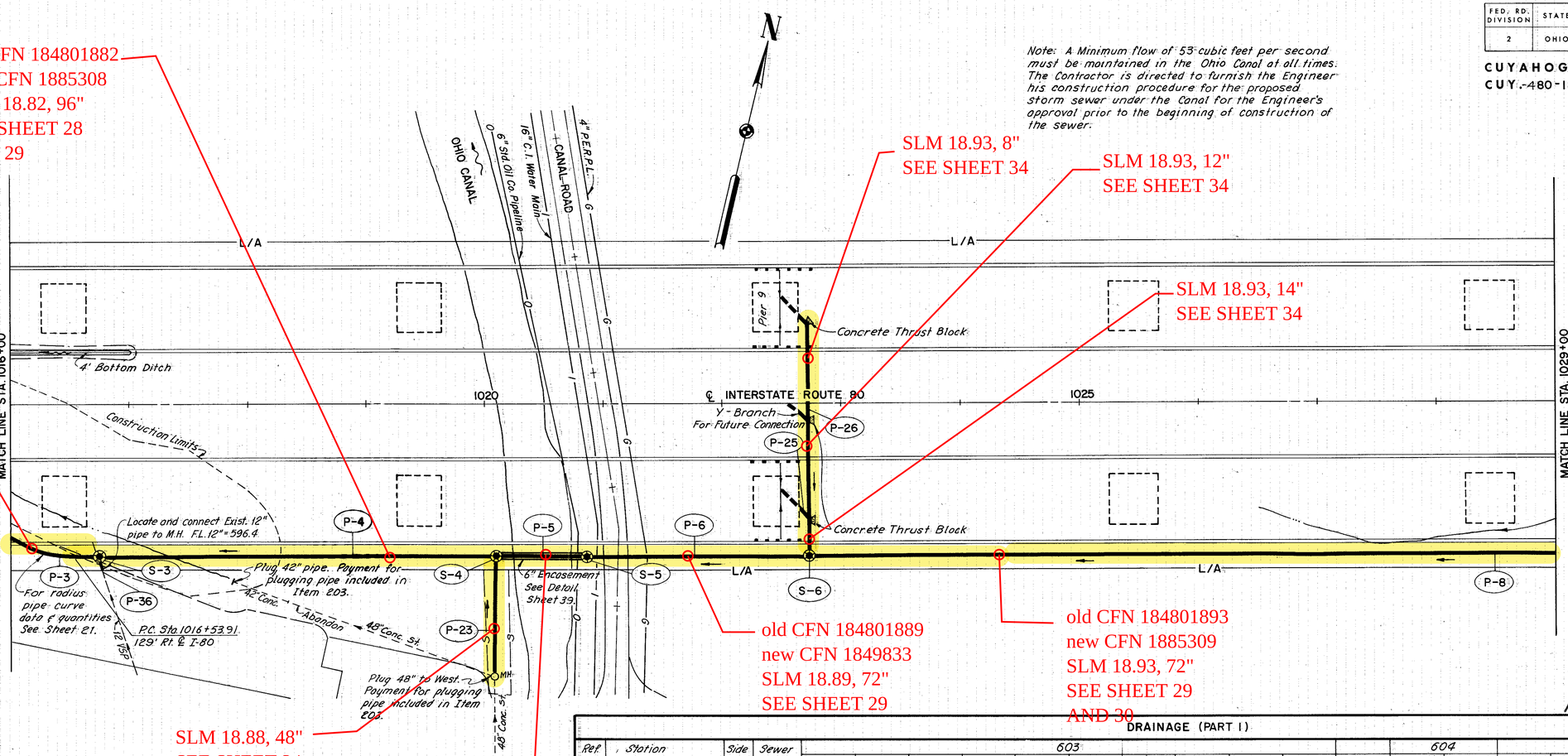
SLM 18.93, 14"
SEE SHEET 34

old CFN 184801889
new CFN 1849833
SLM 18.89, 72"
SEE SHEET 29

old CFN 184801893
new CFN 1885309
SLM 18.93, 72"
SEE SHEET 29
AND 30

SLM 18.88, 48"
SEE SHEET 34

old CFN 184801888
new CFN 1849832
SLM 18.88, 91"x58" HEL
SEE SHEET 29



DRAINAGE LEGEND

- Proposed Storm Sewer
- Existing Storm Sewer
- Underdrains
- Proposed Storm Manhole
- Proposed Ditch Catch Basin
- Existing Storm Manhole
- Existing Storm Inlet
- Seeding and Jute Matting
- Paved Gutter
- Sodding
- Construction Limits

50 0 50 100
SCALE IN FEET

SCALE 1"=50' | MADE D.D.S. DATE 10-10-69 | TRCD. J.M.C. DATE 10-16-69 | CKD. J.N.B. DATE 11-18-69

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

Rev. 11-12-70 AWG

DRAINAGE (PART I)

Ref No.	Station From	Station To	Side	Sewer Profile Sheet No.	603 12" Type "C" Conduit	603 48" Type "C" Conduit 706.02 or 707.13	603 54" D.I. Pipe USAS A21.51-65 Cl. I, push on joints laying Cond. as per plan	603 72" Type "B" Conduit with 706.11 Joints	603 72" Type "C" Conduit 706.02 with 706.11 Jts. or 707.13 with Jts. As Per Plan	603 91"x58" Type "C" Conduit 706.04 Class HE III Conc. Enc. ~~with 706.11 Jts.~~ as per plan	603 96" Type "C" Conduit 706.02 Class III or 707.13 14 Gage	603 8" Conduit A.S.A. Cl. 6 D.I. with Mech. Joints	603 12" Conduit A.S.A. Cl. 6 D.I. with Mech. Joints	603 14" Conduit A.S.A. Cl. 6 D.I. with Mech. Joints	604 Std. No. 1-A Manhole	604 Std. No. 2-A Manhole	603 8"x8"x8" or 12"x12"x8" Y-Branch	603 8"x12" or 12"x14" Eccentric Increaser	603 8" Plug	603 45° D.I. Bend 8"	603 25° D.I. Bend 8"
P-3	See Sheet	21		28	Lin. Ft.										Each						
P-4	1016+75	1020+10	Rt.	28-29							335										
P-5	1020+10	1020+86	Rt.	29						76											
P-6	1020+86	1022+71.75	Rt.	29				186													
P-8	1022+71.75	1031+71.75	Rt.	29-30			194		708												
P-23	1020+10	1020+12	Rt.	34		105															
P-25	1022+64.75	1022+71.75	Rt.	34								9									1
P-26	1022+71.75		Both	34								92	83	29			2	2	1	1	
P-36	1016+75		Rt.		8																
S-3	1016+75		Rt.													1					
S-4	1020+10		Rt.												1						
S-5	1020+86		Rt.												1						
S-6	1022+71.75		Rt.												1						
	Total				8	105	194	186	708	76	335	101	83	29	3	1					

GRADING AND DRAINAGE PLAN STA. 1016+00 TO STA. 1029+00