



- DRAINAGE LEGEND**
- ⊙ PROPOSED STORM SEWER MANHOLE
 - ⊙ PROPOSED SANITARY MANHOLE
 - PROPOSED PAVED SHOULDER INLET
 - ▭ PROPOSED DITCH CATCH BASIN
 - ▭ PROPOSED PAVEMENT CATCH BASIN
 - PROPOSED STORM OR SANITARY SEWER
 - EXISTING MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING STORM OR SANITARY SEWER
 - ▭ JUTE MATTING
 - ▭ SODDED DITCH

DRAINAGE QUANTITIES

CODE	LOCATION	I-5		I-8		L-10	
		Cl. U-1 Sec. M-4 45° Bend 12"	Std. No. 1 Mod. M.H.	Std. No. 1 Mod. M.H.	Each	Sodding Spec. Shop & Berm Protection	Sq. Yds.
DITCH PROTECTION							
D-29	SBOR Rt. 4+25						30
D-30	SBOR Rt. 4+50						30
D-31	NBOR Rt. 22+70						30
D-32	NBOR Rt. 22+95						30
SANITARY SEWERS							
SS-8	Holmden Ave. 7+60						1
SS-9	Burber Ave. 3+83						1
SS-10	Rowley Ave. 8+23						1
SS-11	Rowley Ave. 12+25						1
	Total						120

DRAINAGE QUANTITIES

CODE	LOCATION	I-1			I-5		
		Cl. F-4	Cl. F-3 Shallow	Cl. F-3 Deep	Cl. U-1	Cl. I-3 60° Bend	Cl. I-3 90° Bend
UNDERDRAINS							
U-114	SBOR Rt. 13+25 to 14+60			135			
U-115	SBOR Rt. 10+60 to 13+20	10		255	1		
U-116	SBOR Rt. 8+55 to 10+50	10		195		1	
U-117	SBOR Rt. 3+60 to 8+50	10	475				
SANITARY SEWERS							
SP-4	Rowley Ave Rt						50
SP-7	Rowley Ave Rt						50
	Total	264	840	8533	32	25	100

DRAINAGE QUANTITIES

CODE	LOCATION	I-12		I-8		I-16	
		Pipe Removed over 15" Grade	M.H. Reconst. to Grade	M.H. Aband.	M.H. Aband.	C.B.	C.B.
EXISTING STRUCTURES							
E-107	N.B. Jennings 80+05 Lt. Rt.	273					
E-108	NBOR Lt. 12+25					1	
E-109	NBOR Lt. 12+55					1	
E-110	Ramp NBOR-14 Lt. 7+25				1		
E-111	SBOR Rt. 11+45					1	
E-112	SBOR Rt. 11+75					1	
E-113	Ramp SBOR-M Rt. 7+85				1		
E-114	S.B. Medina Lt. 943+30				1		
E-115	NBOR Rt. 15+65					1	
E-116	NBOR Rt. 15+80				1		
E-117	Reloc. Holmden Lt. 3+70	377				1	
E-118	NBOR Lt. 19+25					1	
E-119	NBOR Rt. 19+25					1	
E-120	S.B. Medina Lt. 950+50					1	
E-121	S.B. Medina Rt. 950+60					1	
E-122	N.B. Medina Rt. 950+35					1	
E-123	N.B. Medina Lt. 950+60					1	
E-124	NBOR Rt. 22+85					1	
E-125	Ramp NBOR-14 Lt. 11+10					1	
E-126	Ramp NBOR-14 Lt. 11+30					1	
E-127	Reloc. W. 14th St. Lt. 10+95		1				
	Total	650	1	7	11		

M.H. ADJUSTED TO GRADE

Ref. No.	Existing T/C Elev.	Adjusted T/C Elev.
E-127*	684.72	683.82

*Reconstructed to grade

E-125 & E-126 Seal Pipe at Catch Basin
E-116 Seal Pipe at Manhole

SCALE 1" = 50'
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
MADE D.D.S. DATE 9-6-64
TRCD 100 U. DATE 9-10-64
CRD. R.J.T. DATE 10-17-64
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

