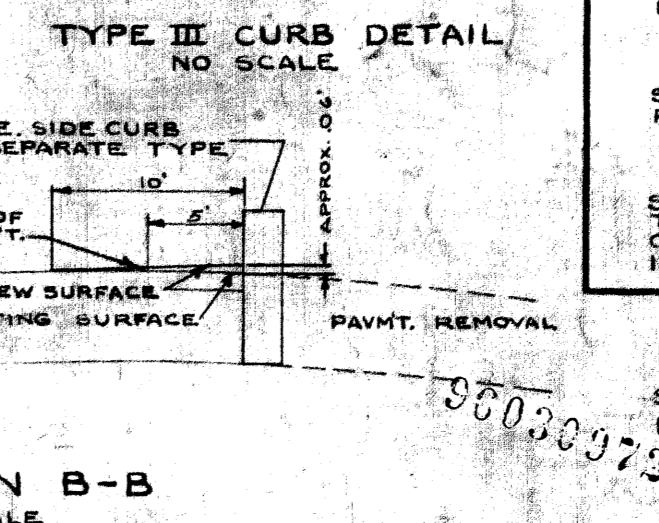
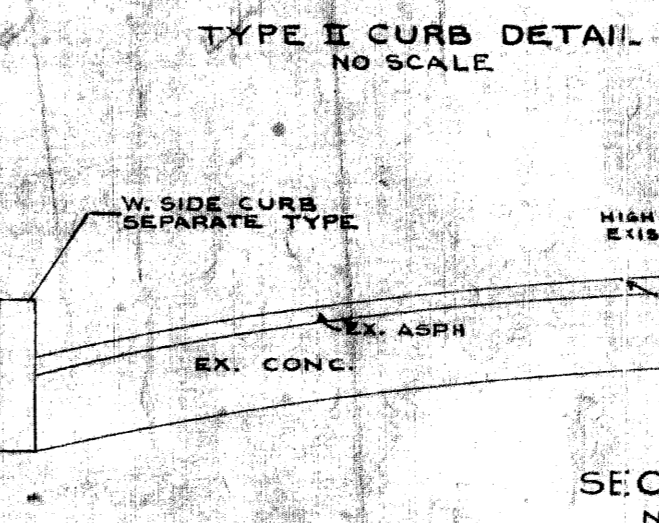
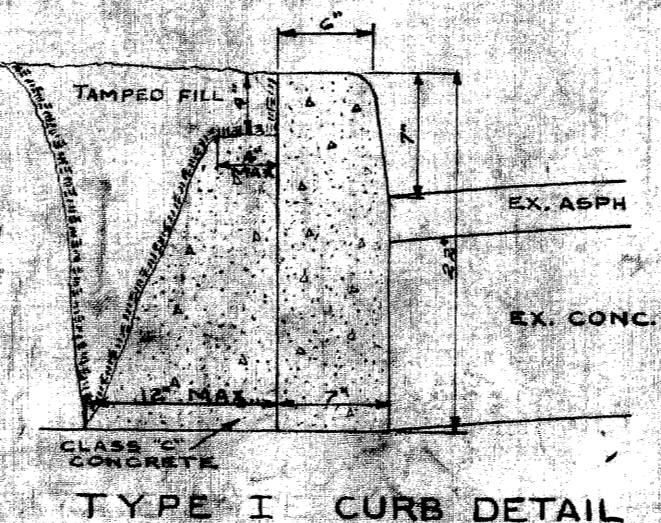
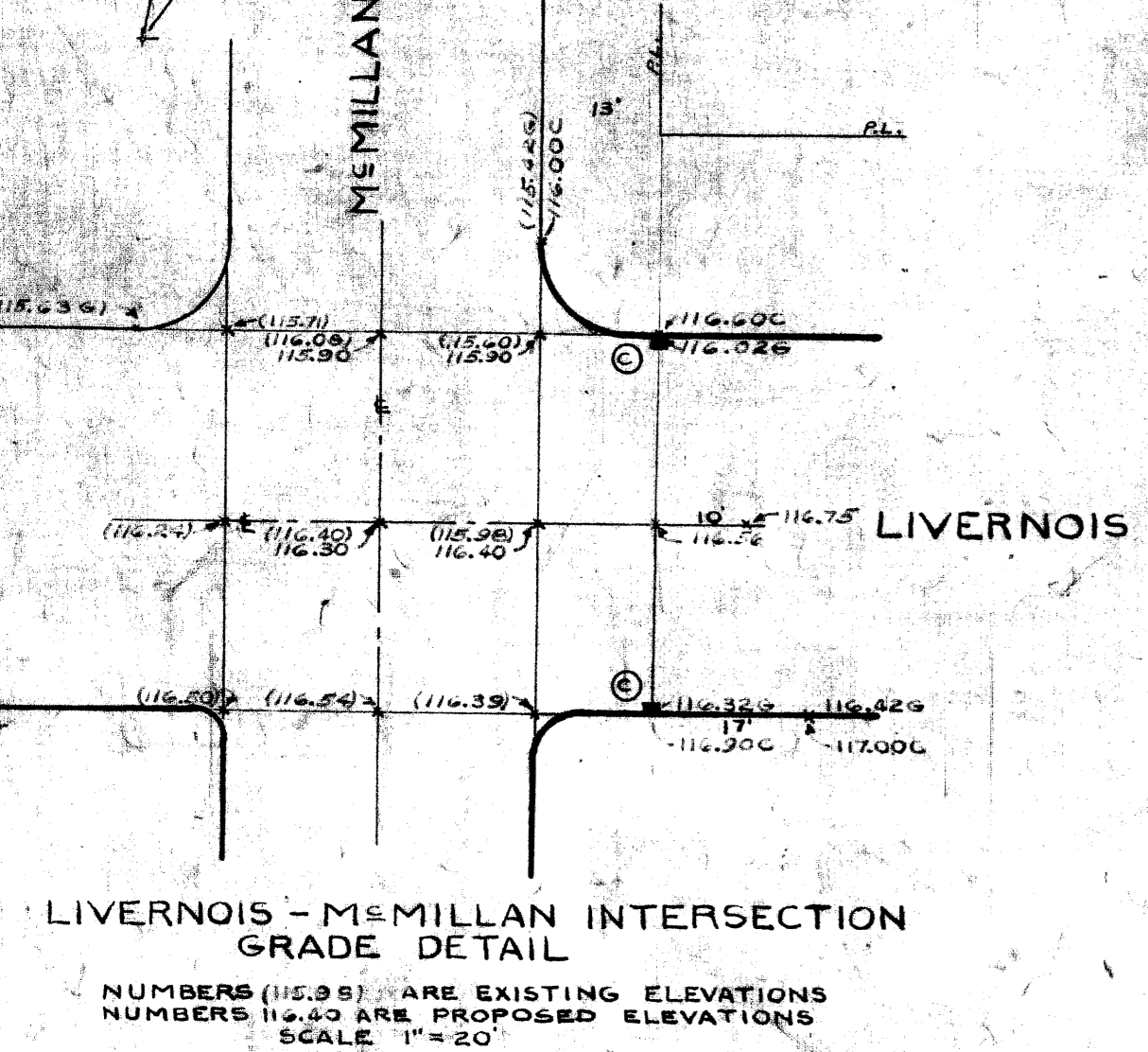
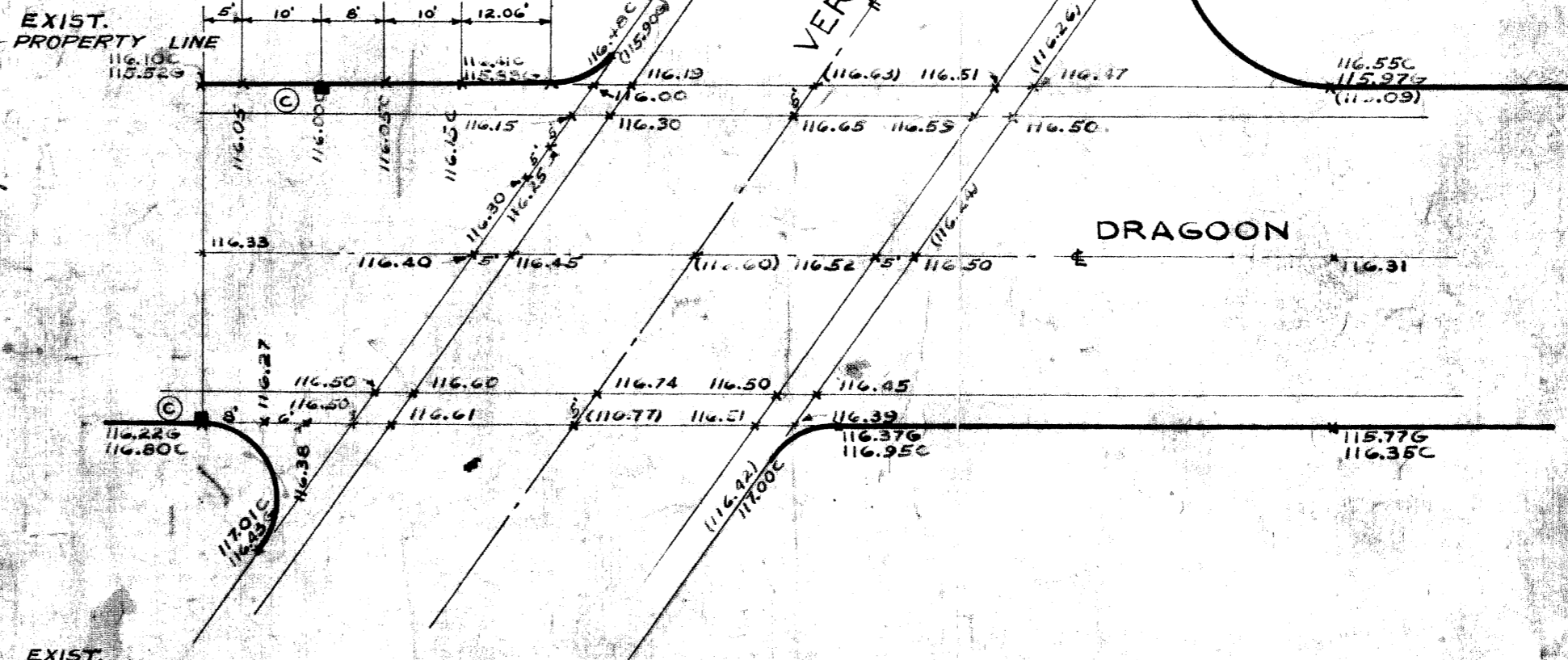
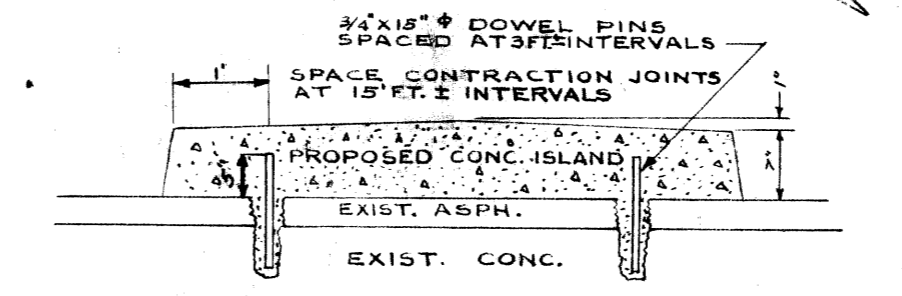


①	②	③	④
$\Delta = 107^{\circ}05'30''$	$\Delta = 107^{\circ}05'30''$	$\Delta = 125^{\circ}08'30''$	$\Delta = 54^{\circ}51'30''$
$R = 150'$	$R = 20'$	$R = 20'$	$R = 10'$
$T = 13.24'$	$T = 17.13'$	$T = 38.54'$	$T = 5.19'$
$A = 26.42'$	$A = 34.17'$	$A = 43.63'$	$A = 3.87'$
$S = 4.5'$	$S = 7.76'$	$S = 39.4'$	$S = 4.4'$
⑤	⑥	⑦	⑧
$\Delta = 125^{\circ}08'30''$	$\Delta = 54^{\circ}51'30''$	$\Delta = 7^{\circ}34'38''$	$\Delta = 107^{\circ}28'27''$
$R = 10'$	$R = 10'$	$R = 300'$	$R = 10'$
$T = 19.27'$	$T = 5.19'$	$T = 19.86'$	$T = 13.68'$
$A = 21.84'$	$A = 9.57'$	$A = 39.67'$	$A = 18.76'$
$S = 88.80'$	$S = 4'$	$S = 6'$	$S = 42.5'$
⑨	⑩	⑪	⑫
$\Delta = 85^{\circ}51'48''$	$\Delta = 13^{\circ}58'12''$	$\Delta = 60^{\circ}10'$	$\Delta = 45^{\circ}$
$R = 10'$	$R = 300'$	$R = 15'$	$R = 50'$
$T = 9.30'$	$T = 36.76'$	$T = 12.62'$	$T = 20.71'$
$A = 14.99'$	$A = 73.15'$	$A = 23.99'$	$A = 39.27'$
$S = 18'$	$S = 57'$	$S = 31.8'$	$S = 63.50'$
⑬	⑭	⑮	⑯
$\Delta = 45^{\circ}$	$\Delta = 18^{\circ}05'35''$	$\Delta = 76^{\circ}10'09''$	$\Delta = 12^{\circ}51'16''$
$R = 325'$	$R = 4'$	$R = 325'$	$R = 365'$
$T = 12.43'$	$T = 51.75'$	$T = 3.18'$	$T = 41.12'$
$A = 23.56'$	$A = 102.63'$	$A = 5.32'$	$A = 81.89'$
$S = 19.5'$	$S = 139.75'$	$S = 1.88'$	$S = 62.05'$
⑰	⑱	⑲	⑳
$\Delta = 107^{\circ}07'01''$	$\Delta = 11^{\circ}16'41''$	$\Delta = 11^{\circ}03'28''$	$\Delta = 56^{\circ}03'28''$
$R = 4'$	$R = 365'$	$R = 30'$	$R = 30'$
$T = 5.42'$	$T = 36.04'$	$T = 39.59'$	$T = 15.97'$
$A = 7.48'$	$A = 71.84'$	$A = 78.93'$	$A = 29.35'$
$S = 6.72'$	$S = 40.15'$	$S = 49.08'$	$S = 89'$
㉑	㉒	㉓	㉔
$\Delta = 10^{\circ}05'29''$	$\Delta = 117^{\circ}01'31''$	$\Delta = 90^{\circ}58'35''$	$\Delta = 90^{\circ}$
$R = 409'$	$R = 5'$	$R = 10'$	$R = 5'$
$T = 36.11'$	$T = 8.16'$	$T = 10.17'$	$T = 5'$
$A = 73.83'$	$A = 15.26'$	$A = 22.3'$	$A = 5.35'$
$S = 1.88'$	$S = 10.21'$	$S = 15.88'$	$S = 7.85'$
㉕	㉖	㉗	㉘
$\Delta = 34^{\circ}40'$	$\Delta = 125^{\circ}08'30''$	$\Delta = 18^{\circ}25'22''$	$\Delta = 5^{\circ}34'41''$
$R = 130'$	$R = 10'$	$R = 369'$	$R = 180'$
$T = 40.57'$	$T = 19.27'$	$T = 59.84'$	$T = 8.77'$
$A = 78.66'$	$A = 21.84'$	$A = 118.64'$	$A = 17.52'$
$S = 161.2'$	$S = 88.5'$	$S = 191.88'$	$S = 1.80'$
㉙	㉚	㉛	㉜
$\Delta = 7^{\circ}08'58''$	$\Delta = 70^{\circ}54'41''$		
$R = 180'$	$R = 4'$		
$T = 11.25'$	$T = 3.5'$		
$A = 22.44'$	$A = 6.19'$		
$S = 3.66'$	$S = 2.33'$		



BENCH MARKS ELEV.

PL.B.M. #11-252A N.E. COR. REGULAR & LIVERNOIS	109.766
ARROW ON HYDRANT, S.E. COR. VERNOR & DRAGON	119.32
SPIKE IN D.S.R. POLE W. SIDE DRAGON AT DRAGON	
& LIVERNOIS	117.80
ARROW ON HYDRANT S.E. COR. McMILLAN & LIVERNOIS	120.08
PL.B.M. #12-253A N.E. COR. VERNOR & LIVERNOIS	116.871

- LEGEND**
- EXISTING GAS LINES
 - EXISTING WATER LINES
 - EXISTING LATERAL SEWERS
 - EXISTING SEWER CYLINDERS
 - PROPOSED CURB
 - CURB TO BE REMOVED
- (M) CONSTRUCT STANDARD 4" SIDEWALK
 - (C) CONSTRUCT 18"x12" Y CATCH BASIN
 - (E) ABANDON CATCH BASIN
 - (A) ADJUST CATCH BASIN
 - (B) ADJUST MANHOLE

QUANTITIES

REMOVAL ITEMS	AMOUNT	CONSTRUCTION ITEMS	AMOUNT
CURB REMOVAL	812 LIN. FT.	STD. 4" WALK	521 SQ. FT.
WALK REMOVAL	781 SQ. FT.	SEPARATE TYPE CURB	1217 LIN. FT.
PAVMT REMOVAL	1879 SQ. YD.	PAVMT	1191 SQ. FT.
EXCAVATION	1164 C.Y.D.	9" UNIFORM	2169 SQ. YD.
		8" UNIFORM + 3/4" ASPH.	356 SQ. YD.
		7" UNIFORM	59.15 SQ. YD.
		STRIPPING & RESURFACING	59.15 SQ. YD.
		CATCH BASINS	18 EA.
		12" SEWER PIPE	425 LIN. FT.

NOTE TO SURVEY DIVISION
SEE CITY ENGINEERS OFFICE DRAWING NO. C-1848 FOR PROPERTY CONDEMNATION

DESIGNED BY <i>M. Lee</i>	APPROVED <i>W. J. Wallace</i>	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF	ELIMINATION OF JOB AT DRAGON - LIVERNOIS - VERNOR TO FACILITATE PROPOSED ONE-WAY OPERATION
DRAWN BY <i>SIL. AGRESTA</i>	ENGINEER <i>W. J. Wallace</i>		
TRACED BY <i>B. M.</i>	CITY ENGINEER <i>W. J. Wallace</i>	TRAFFIC ENG. DRAWG. NO. IC-191	DATE 12-21-48
DESCRIPTION REVISIONS	DATE	SCALE 1" = 30'	DWG. NO. C-1940