

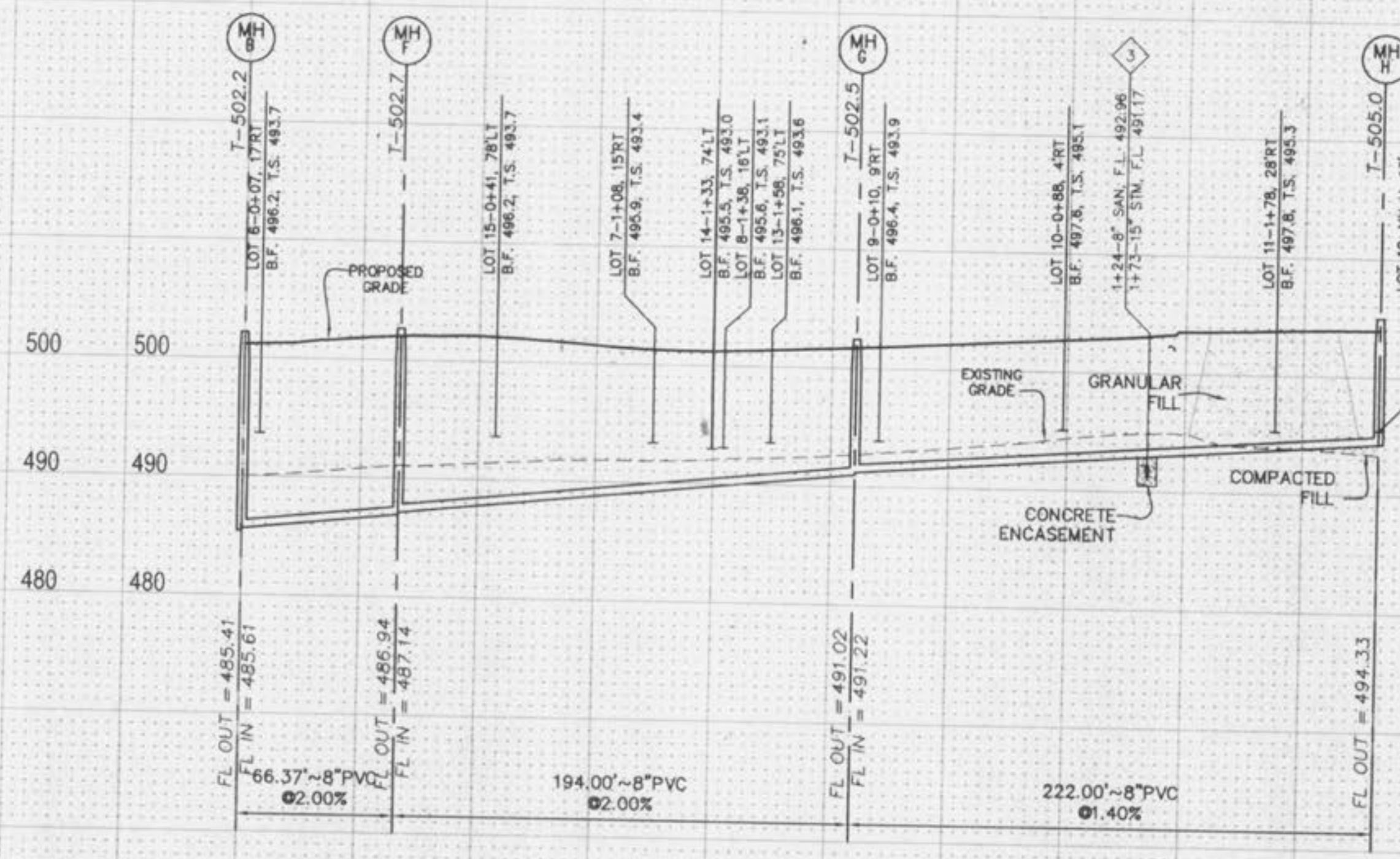
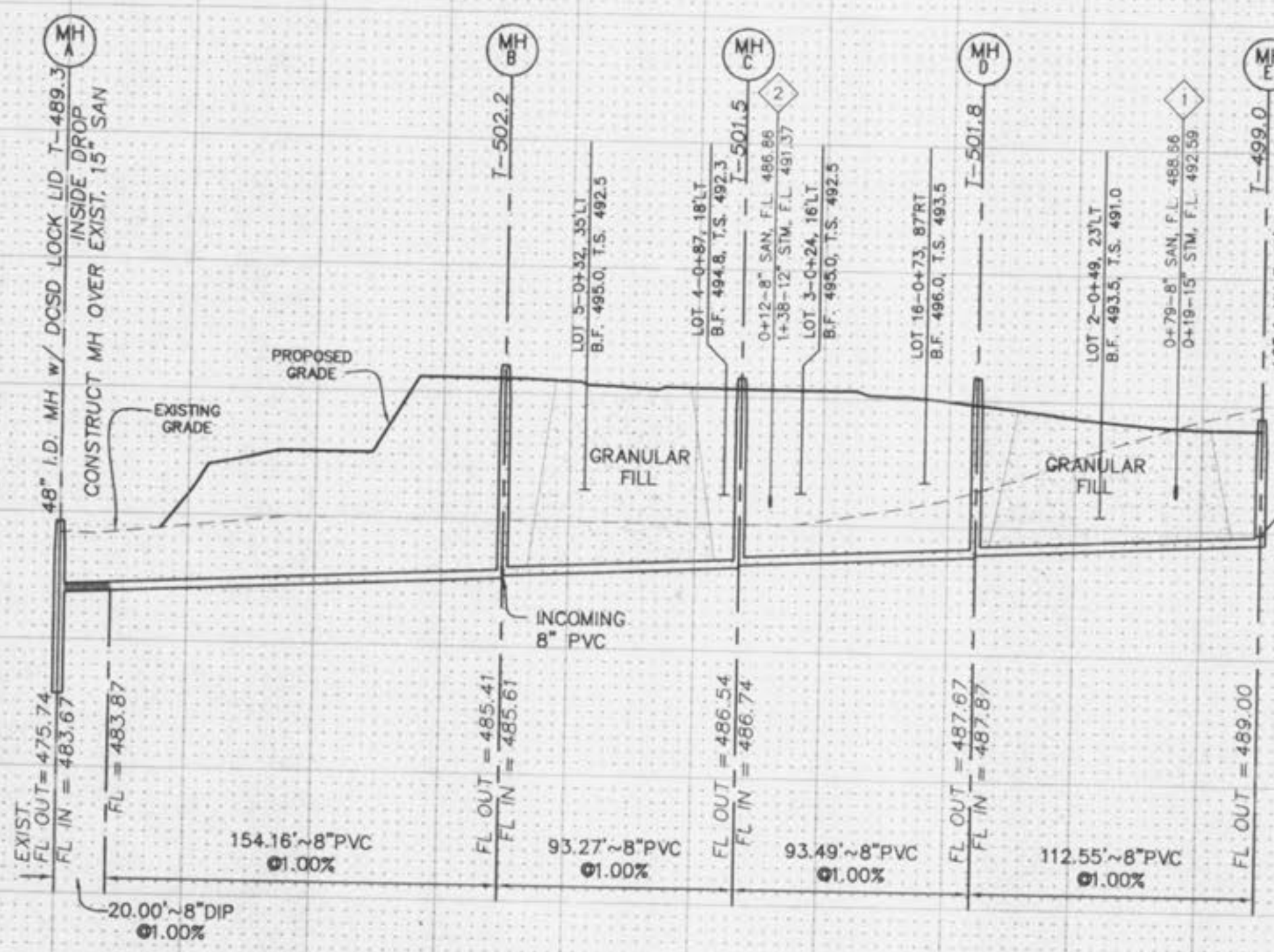
STORM SEWER HYDRAULICS
THE STERLING COMPANY
157R-20MIN DESIGN

Job Name: KENSINGTON PLACE
Prepared by: JCM
Job No: D101012
Sheet No: DEM 1

Date: 10/16/01
Revised: 01/04/02

Upper Struc. No.	Lower Struc. No.	Length (ft.)	Inlet C.F.S.	Outlet C.F.S.	Pipe Size (in.)	Const. Grade (%)	Hyd. Grade (%)	Flow Line Elevation (ft.)	Top of Structure Elevation (ft.)	Free Board (ft.)	Hydraulic Grade Line (ft.)	Frict. Loss (ft.)	Curve Loss (ft.)	Junc. Loss (ft.)	Entr. Loss (ft.)	Turn Loss (ft.)	Capacity (c.f.s.)	Normal Depth (ft.)			
T 10	9	34.5	1.53	1.53	15	2.00%	1.25	0.02	0.04	0.06%	496.00	495.31	501.48	501.48	4.90	496.58	496.56	0.02	9.14	0.17	0.34
CI 9	8	185	2.09	3.62	15	0.50%	2.95	0.14	0.49	0.31%	491.23	490.30	501.48	4.92	492.13	491.55	0.58	4.58	0.79	0.84	
T 7	6	151.2	1.43	1.43	12	1.50%	1.82	0.05	0.07	0.16%	491.57	489.30	500.88	8.32	491.96	490.30	0.24	0.05	4.37	0.33	0.39
T 5	4	47	1.95	1.95	12	1.00%	2.48	0.10	0.19	0.30%	494.09	493.62	498.40	498.20	3.61	494.79	494.65	0.14	0.12	0.10	0.11
CI 3	2	34.5	1.77	3.72	15	1.01%	3.03	0.14	0.53	0.33%	493.42	493.07	498.20	498.20	3.35	494.43	494.32	0.11	0.09	0.09	0.12
CI 3	2	47.1	0.88	4.54	15	1.00%	3.70	0.21	0.96	0.49%	492.87	492.40	498.20	499.00	3.88	493.88	493.65	0.23	0.12	0.10	0.13
MH 2	1	140	4.54	4.54	15	0.50%	3.70	0.21	0.96	0.49%	492.20	491.50	499.00	499.00	5.35	493.44	492.75	0.69	60	0.09	0.12

NOTE: AI=Area Inlet, M=Manhole, T=Terminal Structure, CI=Curb Inlet, DCI=Double Curb Inlet, SCI=Skewed Curb Inlet, TP=Tangent Point, EP=End of Pipe, DS=Outfall Structure
n=0.013 For RCP, 0.024 For CMP. For Drainage Areas, P.I. & Bypass, See Drainage Area Map.



ISSUE REMARKS/DATE

1	10-19-01	FIRST SUBMITTAL
2	11-26-01	DCSD & CITY COMMENTS
3	12-11-01	AGENCY REVIEWS
4	12-12-01	DCSD COMMENTS & ADDRESSES
5	01-18-02	CITY COMMENTS

PREPARED FOR:
GOLDKAP III, L.L.C.
401 NORTH LINDBERGH BOULEVARD
ST. LOUIS, MO 63141
(314) 432-3088



PREPARED BY:
THE STERLING CO.
ENGINEERS & SURVEYORS
5055 NEW BAUMGARTNER ROAD
ST. LOUIS, MISSOURI 63120
(314) 487-0440 FAX 487-8944
E-Mail: Sterling@sterling-eng-sur.com

PROJECT: **KENSINGTON PLACE ADDITION**
SHEET TITLE: **SEWER PROFILES**

No.	01	01	012
M.S.D.			SHEET
P#			5
DATE			OF