

B Permit – Sewer Plan Submittal Checklist

Private Engineer	Contact Phone
_____	_____
Project Title	Contact Email
_____	_____
B-Permit Reference #	Date
_____	_____
Tract, PM, ZA, or CPC No.:	

Required with Initial Plan Check Submittal

1. Completed Sewer Plan Checklist. (see below)
2. Copy of corresponding Street and Storm Drain Plans.
3. Copy of Final Tract or Parcel Map, if applicable.
4. Surveyed elevations for sewer MH's at joins with stubs and/or upstream and downstream MH inlet/outlet elevations when placing a new MH on an existing sewer line.
 - A. If Applicable to Proposed Improvements provide:
 - I. Flow data if sewer line is 12" in diameter or greater.
 - II. Soil report with plasticity index if the use of plastic pipe is proposed. Required, may be submitted at first submittal or during subsequent plan check.
5. [Summary of Utility Notices](#).
6. **Private Engineer acknowledges that this form was prepared/reviewed by him/her for accuracy.**

Private Engineer must check "OK" or "N/A" for each item. City Staff to complete "OK" or "Incomplete"

		Private Engineer		City Staff	
		OK	N/A	OK	Incomplete
GENERAL					
1.	Review Engineering conditions for work required, including Planning Case/Tract/PM/ R3/Hillside report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Indicate alignment on "Y" map and in NavigateLA using MapNotes. (For City plan checker)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DRAFTING REQUIREMENTS					
3.	Current B-permit CAD Templates used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	All text shall be Arial vertical font with a minimum size of 1/8"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	City North arrow, orientation, and graphic scales per CAD Standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Line Weights and Line Types (including substructures) per CAD Stds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Drafting symbols for culture per S-623-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Show, but do not station, culture when sewer within 10' of curb or R/W line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Symbols for Construction Notes per S-627-0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	No crosshatching, shading, or screening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	All stationing shown to 2 decimal places except on even 50' stations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	All construction notes shall be placed outside of public R/W lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Show all elevations to two decimal places.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Orientation of notes should either be horizontal or vertical. Vertical notes should read from the right side of the plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Private Engineer's stamp and signature required on all sheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Checklist

		Private Engineer		City Staff	
Item		OK	N/A	OK	Incomplete
TITLE SHEET					
16.	Refer to B-permit Templates and Samples	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	'Project Title' should match official B-permit title	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Survey Control information. Vertical Control in Title block (Bench #, Datum, [year] adj. and elevation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Bench marks: 2 required. Bench Mark number, exact description from Bench Mark Book, Elevation & adjustment year in BENCH MARK boxes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Appropriate Departments or Bureaus shown in 'APPROVALS' box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: CONSTRUCTION SYMBOLS					
21.	Show only 'Construction Notes' applicable to the plans. (NOT REQUIRED)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: KEY MAP					
22.	Orientation – North Arrow direction to top of sheet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	Scale, Graphic Scale and North Arrow (Typical scale 1" = 400')	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.	Map to include closest Intersecting Major & or Secondary Street	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.	Line numbers & flow arrows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.	Sewers & MHS (Existing – dashed lines, New – solid lines)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27.	Indicate limits for HC's only (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.	Show Tract number or Parcel Map No.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.	Participation boundary around participating property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: INDEX or INDEX TO SHEETS					
30.	"Plans of", "From", "To", Sheet No. in INDEX TO SHEETS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.	"House Connection Only" under street name (if applies)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: NOTICE TO CONTRACTORS					
32.	Current B-Permit standard notes (General Notes 1 – 16 are applicable to all types of projects. Notes shall be listed in the order shown.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.	Applicable Std Plans-list by title & plan number, numerically. Std Plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.	Spill Note when working on or joining live sewer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.	Excavate & Expose end of sewer for Survey (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.	Sewer in fill note (90% compaction req'd before trenching for sewer)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.	Sewer trench resurfacing note	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.	Traffic lane reqmts (major, secondary & collector require DOT review)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.	Street lighting notes (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.	Traffic signal notes (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.	Urban Forestry Division notes (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.	CCTV for ex. HC lateral extension (Lateral constructed pre-1965 or in earthquake damaged areas)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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		OK	N/A	OK	Incomplete
43.	State Highway – Encroachment Permit is required. Date & No.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.	Flood Control permit number and any restrictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45.	Railroad encroachment permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.	County or other City's permits (as applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.	Earthquake zone (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: IF TUNNELING OR JACKING:					
48.	Cal/OSHA permit required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49.	Name & phone number for State contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.	Gas classification required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.	Special details	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52.	Soils Report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: PARTICIPATION NOTE					
53.	Participation Note, with participation boundary line type shown and the name of the person signing printed below the signature line.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54.	Permittee sign and date Final B-permit plan PARTICIPATION NOTE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Title Sheet: LEGEND					
55.	Applicable symbols shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56.	Existing improvement – dashed lines, Proposed – solid lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PLAN VIEWS					
57.	Fill out title block.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58.	Design Group block filled out – with signatures & dates for “Engineer” and “Approved by”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59.	“PLAN”, shown in vicinity of plan view	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60.	North Arrow Orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61.	Scale 1” = 40’ (standard plan view) and Graphic scale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62.	Plan scale and graphic scale agree, and are shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63.	Plan aligned with Profile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64.	Plan orientation agrees with North Arrow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65.	Public R/W lines shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66.	R/W Centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67.	Street, alleys and easements labeled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68.	Dimensions shown for streets, alleys, easements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.	Temporary easement(s) – if applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.	Earthquake zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71.	Curbs, gutters, cross-gutters (existing, future, proposed), and show dimensions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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72.	Proposed storm drains – 3-ft clearance between OD's of pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73.	If sewer is within 10-ft of curb then show surface improvements behind curb: Buildings, trees, walls, water meters, driveways, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74.	Participation Boundary with line font as shown in Participation Note	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75.	Match line stationing and Sheet references	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76.	Soil report, if plastic pipe is specified. Report needs to include the soil plasticity index	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: TRACTS, PARCEL MAPS, DLM					
77.	Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78.	Lot numbers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.	Lot dimensions – frontage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80.	Lot dimensions – all sides	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.	Lot cut lines & dimensions inside	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.	Lot tie symbol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: SUBSTRUCTURES					
83.	Correct line symbols (are incorporated in latest plan sheets) CAD Stds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.	Owner, size & quantity and location relative to centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.	Storm drains, culverts, etc., with plan numbers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.	Existing Sewer facilities with size, ties and plan numbers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.	Substructure Abandoned? If so, label "ABAND"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.	High pressure? If so, label as HIGH PRESSURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89.	To be Abandoned, Removed or Relocated and by whom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90.	Power poles-encase sewer within 3 feet with Case 5 bedding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
91.	Fire hydrants & laterals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: EXISTING SEWERS					
92.	Check Bedding type at joins with existing sewers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
93.	Size, material, flow direction arrows and ties to centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94.	Label location relative to centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95.	Plan number or Abandoned (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96.	Ex. HC's and stations (if necessary), reconstruct, blanket, abandon, remodel, join, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: EXISTING MAINTENANCE HOLES					
97.	Upstream and downstream MH's, dashed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98.	Type, size (if greater than 4'), station, ties, remodel, or abandon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: NEW SEWER INFORMATION					
99.	Diameter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100.	Material type (limits if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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		OK	N/A	OK	Incomplete
101.	Flow direction arrow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
102.	Line numbers in circles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103.	Ties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
104.	Curve data (Delta, Radius, Length and Tangent)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
105.	Location - clearance to adjacent improvements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
106.	Location –clearance to adjacent water lines (min. 4' OD to OD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107.	Stationing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108.	Curves - BC's, EC's, PRC's and ties to centerline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
109.	Tunnel or jacking limits – Pit location: Avoid intersections, crosswalks, driveways, and building entrances. Allow clearance to existing Improvements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: STRUCTURES					
110.	Stationing (with line number, where necessary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
111.	Type and diameter if other than 4'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
112.	Existing MH – Dashed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
113.	Is Equation required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114.	Special Manholes (other than by Std Plan)– refer to detail & location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
115.	Ties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
116.	Inner cover where subject to inundation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117.	Spacing - maximum 400' between MH's	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
118.	MH bottom layout (if necessary; show detail)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119.	Label stubs – size and slope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120.	TCS "Y"s may not be used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: HOUSE CONNECTIONS					
121.	HC for each lot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
122.	HC station at Property Line and Y-station if different than PL station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
123.	HC length, extended to PL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124.	Elevation "F" at PL or Join point, <u>if no profile shown.</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
125.	HC smaller than mainline?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
126.	HC type (if other than "A" specify length "B")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127.	Saddles station – if no existing wye or Tee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
128.	Bedding type if encasement required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
129.	Y's, if HC not used, @ 50' intervals or as appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130.	Y's pointed downstream	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
131.	Is Flat or non standard Y inclination necessary?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
132.	No house connection directly into a MH.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Plain Views: SPUR LINES					
133.	Show future sewer alignment & ties	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
134.	End station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plain Views: MISCELLANEOUS					
135.	Chimney bases & stations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
136.	Chimney type and height	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
137.	Cross index between sheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
138.	Match Lines with Station and Continued on Sheet No.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139.	Does all data agrees on referenced sheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140.	Check if sewer can be extended in future	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
141.	Hydrograph (when joining larger lines)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PROFILE					
142.	"PROFILE" , shown in lower center area of Profile		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
143.	Standard Profile Scale: Horizontal 1" = 40', Vertical 1" = 4'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
144.	Avoid using double vertical scale (exception steep hillside with more than one break in the profile). If used, show DOUBLE VERTICAL SCALE in large text in a bold box in the profile area by the scale		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
145.	Profile aligned with plan		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
146.	Street name or R/W at top of Profile with line number before it (if app.)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
147.	Stations - 100' Intervals (1,2,3, etc.) located on bold grid line		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
148.	Elevations - 5 or 10 foot intervals located on bold grid line		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
149.	Plan or Survey reference for surface over pipe under St or R/W name		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
150.	Improved surface grade – solid line with straight edge. Indicate unimproved w/freehand solid line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
151.	Fill compaction note reference to NTC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: INTERSECTING STREETS, ALLEYS, OR EASEMENTS					
152.	Dash near side, solid far side (Dash easements)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
153.	Special compaction requirements in R/W's?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: PROPOSED SEWER					
154.	Size-in inches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
155.	Slope in feet per foot (S=0.XXXX)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
156.	Pipe type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
157.	Mainline depth-adequate for tributary area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
158.	Bedding type if other than Case 1- (minimum Case 2 for plastic pipe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
159.	Protective lining coverage – RCP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Item		Private Engineer		City Staff	
		OK	N/A	OK	Incomplete
160.	Limits – stationing and length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
161.	Hydraulic elements - 18" & > (Q, V, d, d/D, N)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
162.	Water surface - 18" and larger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: VERTICAL CURVES					
163.	B.V.C. & E.V.C. stations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
164.	Length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
165.	P.I. station and elevation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
166.	Stations and elevations in curve	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: HORIZONTAL CURVES					
167.	B.C. & E.C. – stations and elevations shown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
168.	Specify maximum pipe length permitted (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
169.	Beveled pipe required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
170.	Compound curves – Check joint deflection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: STRUCTURES – MH's					
171.	Station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
172.	MH Type (B, F, G, H, Q, special?), No “ “ around MH type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
173.	Diameter > 4' specify diameter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
174.	Existing – remodel to MH?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175.	Ex. elevations with survey reference (elevations in parenthesis)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
176.	Drop across MH per design manual, Sections F254 & F255	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
177.	Elevations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
178.	Station or tie to elevations if MH is other than 4' DIA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
179.	Line number in circle at end of elevation leader – Intersecting lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180.	Stubs with size and slope	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
181.	MH cover Elevation in R/W, or dirt (set 6" above adjacent surface)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
182.	Inner cover if subject to inundation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
183.	Review survey submittal for MH invert elevations & existing surface over sewer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
184.	All elevations agree where shown elsewhere	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: HOUSE CONNECTIONS					
185.	HC elliptical symbol - dashed for near side and solid for far side	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
186.	HC Station with "R" for right side or "L" for left side	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
187.	HC Elevation below leader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
188.	HC Type, if other than "A" ("B", "C", or "D")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
189.	Elevations "E" & "F" (if H.C. other than "A")	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

B Permit – Sewer Plan Submittal Checklist

Item		Private Engineer		City Staff	
		OK	N/A	OK	Incomplete
190.	Flat or inclined “Y” (other than standard hook-up) – show slope, inclination and rotation for wye	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
191.	Size, if other than 6”. Must be one size smaller than mainline	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: CHIMNEYS					
192.	Size, if other than 6”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
193.	Base Type and station (when base only used)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
194.	Station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
195.	Chimney type (A, B, C, D) and Base Type (X or Y), i.e. CH A-X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
196.	Height	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: EXISTING SEWERS					
197.	Blankets or supports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
198.	Abandonment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
199.	Removals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
200.	Elevations at crossings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
201.	Close parallel lines and MH’s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
202.	Skewed crossings – show where sewer is in trench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Profile: MISCELLANEOUS					
203.	Existing house connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
204.	Pipe anchors and backfill stabilizers (List by table, if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
205.	Crossing substructures (label with owner and size).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
206.	Proximity of parallel utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
207.	Show fire hydrant lines and large individual service lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
208.	Crossing storm drains – support or blanket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
209.	Existing, proposed or future storm drains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
210.	Underground obstructions (Vaults, footings, piles, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
211.	Tunneling or jacking limits – Stations & length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
212.	Special compaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
213.	Concrete reinforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
214.	Low ground elev. (Adverse grade)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
215.	Basements (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>