



Project Name	Complete 540 - TIP R-2721B		Date	Initial
Deliverable Type/Name	R-2721B Permit Drawings Review (S-012)		8/2/2019	

ID	Sheet/Name	Sheet No.	Comment Made By Initials	Comment (Limit to One Item Per Row)	Response	Resolved	Fixed/Initials
1	Wetland Cover Sheet	1	HWM/NJT/MW	Bring "Begin Project" and "End Project" labels in vicinity map to front	Updated		
2	Wetland Cover Sheet	1	HWM/NJT/MW	Add sheet numbers to overall plan view	Updated		
3	Permit Drawing 2 of 69	21	HWM/NJT/MW	Add more "c" and "f" to denote cut and fill lines	Updated		
4	Permit Drawing 2 of 69	21	HWM/NJT/MW	Cut ditch gets outside of "cut" line; adjust accordingly	Updated		
5	Permit Drawing 2 of 69	21	HWM/NJT/MW	Insure appropriate wetland amouts accounted for where utility impacts are proposed	We do not anticipate any changes to the utility plans at this point.		
6	Permit Drawing 2 of 69	21	HWM/NJT/MW	Need Culvert details to include floodplain benches, plan/profile/x-sect views, sills, etc.	Inlet and outlet details have been provided for the culverts.		
7	General	ALL	HWM/NJT/MW	Include flow directions	We were requested in other comments to remove unnecessary items. These were removed to avoid clutter and were not illustrated on the original permit drawings submitted to the agencies.		
8	Permit Drawing 2 of 69	21	HWM/NJT/MW	Is rip rap in flow line both upstream and down? What did RFP call for?	We have illustrated rip rap in the channels and called it fill in the summary tables. The RFP states "3.6.17 For pipe inlets and outlets in jurisdictional areas, the Design Build Team shall install countersunk rip rap pads, with underlying geotextile at these inlets and outlets. The rip rap pads and geotextile shall extend a minimum of 10 feet from pipe inlets and a minimum of 20 feet from pipe outlets or to the length of construction disturbance, whichever is greater. If Triassic material is encountered at the inlet or outlet, the rip rap pad and geotextile shall extend to the above minimums or to the length of the construction disturbance, whichever is greater."		
9	Permit Drawing 2 of 69	21	HWM/NJT/MW	Add mechanized clearing to wetland edge, south side of road near pedestrian culvert	Updated		
10	Permit Drawing 2 of 69	21	HWM/NJT/MW	Where is EDB at end of base ditch?	Updated		
11	Permit Drawing 2 of 69	21	HWM/NJT/MW	Will base ditch interfere with pedestrian culvert and future greenway?	Yes. This is a similar situation to the original drawings. In the future a pipe may be needed in the ditch for crossing.		
12	General	ALL	HWM/NJT/MW	Remove duplicate stream and wetland labels; only use those from NRTR/Waters Report	Updated		
13	Permit Drawing 2 of 69	21	HWM/NJT/MW	Is TDE below pedestrian culvert for EC Device?	No		
14	Permit drawing 6 of 69	23	HWM/NJT/MW	Delete duplicate Station Numbers	Updated		

15	Permit drawing 6 of 69	23	HWM/NJT/MW	Detail 07-02 for the berm base ditch does not show rip rap in bottom nor are the STA #'s listed	Details were not illustrated on the original permit drawings. We have removed them and only illustrated inlet and outlet details. The others can be found in the hydraulic plans.		
16	Permit drawing 6 of 69	23	HWM/NJT/MW	Need EDB details	EDB details were not illustrated on the original permit drawings. These can be found in the hydraulic plans.		
17	Permit drawing 7 of 69	24	HWM/NJT/MW	Need reference to pond drainage plan	Updated		
18	General	ALL	HWM/NJT/MW	Move all labels and callouts so legible	Updated		
19	Permit drawing 7 of 69	24	HWM/NJT/MW	Need to show full easement for utility line	These can be found in the utility permit plans.		
20	Permit drawing 7 of 69	24	HWM/NJT/MW	Should TDE on the north side of the culvert be a PDE?	As long as the flow line is in ROW, the back slope can be in TDE.		
21	General	ALL	HWM/NJT/MW	Adjust all mechanized clearing symbology so that it is NOT within any proposed toe protection; toe protection is Fill	Updated		
22	Permit drawing 7 of 69	24	HWM/NJT/MW	If flow is being removed from stream SAL to the north, what will happen to that southern section?	Our plans match the original permit plans submitted to the agencies.		
23	Permit drawing 7 of 69	24	HWM/NJT/MW	Buffer impacts extend beyond wetland impacts on south side; adjust so they match	Updated		
24	Permit drawing 7 of 69	24	HWM/NJT/MW	Reference detail AA & AB for inlet and outlet of culverts	We will update details for all culverts in the final submittal.		
25	General	ALL	HWM/NJT/MW	Multiple barrel culverts must have floodplain benches and appropriate details for those	Details have been added		
26	Permit drawing 12 of 69	26	HWM/NJT/MW	Why the PUE/E on the Y line?	Noted. To be discussed with the Turnpike.		
27	Permit drawing 12 of 69	26	HWM/NJT/MW	Need a PDE to construct the Berm Base ditch STA 306+50 Lt	It is assumed they will be able to construct this without additional easement. To be discussed with the Turnpike.		
28	Permit drawing 12 of 69	26	HWM/NJT/MW	Show rip rap in symbology for special cut base ditch (10-02)	Updated		
29	Permit drawing 12 of 69	26	HWM/NJT/MW	carry rip rap pad to HW of 36-in RCP	Updated		
30	Permit drawing 12 of 69	26	HWM/NJT/MW	Need inset of Site 4 for clarity	These were not provided in the original permit submitted to the agencies.		
31	Permit drawing 12 of 69	26	HWM/NJT/MW	Show temporary stream impact in channel	Updated		
32	Permit drawing 12 of 69	26	HWM/NJT/MW	Wetland will be total take as remanent will not survive (near TDE, bottom of page)	Based on the contours it appears that there is drainage to the wetland area and hydrology is likley to be maintained.		
33	Permit drawing 15 of 69	27	HWM/NJT/MW	Will need an easement for ditch construction at STA 316+00 Lt	Contractor should be able to construct without additional easement. To be discussed with the Turnpike.		
34	Permit drawing 15 of 69	27	HWM/NJT/MW	Remove duplicate station numbers	Updated		
35	Permit drawing 15 of 69	27	HWM/NJT/MW	culvert inlet/outlet details (AA & AB) needed	We will update details for all culverts in the final submittal.		
36	Permit drawing 15 of 69	27	HWM/NJT/MW	Move Later 2-foot base ditch detail at right to next sheet	These notes have been removed due to a previous comment to reduce clutter on the sheets.		
37	Permit drawing 15 of 69	27	HWM/NJT/MW	Label culvert size	Updated		
38	Permit drawing 15 of 69	27	HWM/NJT/MW	Carry temporary stream impacts to PDE	Updated		
39	Permit drawing 15 of 69	27	HWM/NJT/MW	Extend mech clearing to PDE	We reduced impacts at this location; however, we have changed based on this direction.		
40	Permit drawing 15 of 69	27	HWM/NJT/MW	What is line at bottom of sheet?	Updated		
41	Permit drawing 15 of 69	27	HWM/NJT/MW	Need EDB details	EDB details were not illustrated on the original permit drawings. These can be found in the hydraulic plans.		

42	Permit drawing 15 of 69	27	HWM/NJT/MW	Toe protection not listed on detail sheet	These details were not illustrated on the original permit drawings. Please refer to the hydraulic plans.		
43	Permit drawing 15 of 69	27	HWM/NJT/MW	What is gap in mechanized clearing 316+00 Rt?	There isn't really a gap in the mechanized clearing. It is the cell pattern which is making it appear blank. The impacts have been calculated in this area.		
44	Permit drawing 20 of 69	28	HWM/NJT/MW	Remove random text at top of page in Pond PE	Updated		
45	Permit drawing 20 of 69	28	HWM/NJT/MW	What is the easement for at STA 335 Lt?	Noted. To be discussed with Turnpike.		
46	Permit drawing 20 of 69	28	HWM/NJT/MW	Temporary causeway or work bridges?	Causeways will be used.		
47	Permit drawing 20 of 69	28	HWM/NJT/MW	Need EDB details	EDB details were not illustrated on the original permit drawings. Please refer to the hydraulic plans.		
48	Permit drawing 20 of 69	28	HWM/NJT/MW	Need inset of Sites 6 and 7 for clarity	These were not provided in the original permit submitted to the agencies.		
49	Permit drawing 20 of 69	28	HWM/NJT/MW	Connect PDE at STA 15 Rt for Y8RPA	Updated		
50	Permit drawing 20 of 69	28	HWM/NJT/MW	Check STA #'s for 4-ft base ditch at STA 15 Rt for Y8RPA	Verified		
51	Permit drawing 20 of 69	28	HWM/NJT/MW	Rip rap around bridge abutments?	Updated		
52	Permit drawing 20 of 69	28	HWM/NJT/MW	Need velocities at end of swale south side of bridge	Updated		
53	Permit drawing 20 of 69	28	HWM/NJT/MW	Tie ditches together at south side site 6	Updated		
54	Permit drawing 20 of 69	28	HWM/NJT/MW	culvert inlet/outlet details (AA & AB) needed	We will update details for all culverts in the final submittal.		
55	Permit drawing 27 of 69	29	HWM/NJT/MW	What is rectangle box at top of page?	Updated		
56	Permit drawing 27 of 69	29	HWM/NJT/MW	Need details for toe protection north east culvert side	These were not provided in the original permit submitted to the agencies. Please refer to the hydraulic plans.		
57	Permit drawing 27 of 69	29	HWM/NJT/MW	culvert inlet/outlet details (AA & AB) needed	We will update details for all culverts in final submittal.		
58	Permit drawing 27 of 69	29	HWM/NJT/MW	Take temp stream impacts to PDE south side of culvert on -Y10A	Updated		
59	Permit drawing 27 of 69	29	HWM/NJT/MW	Is TDE for EC device?	It is not used for EC in the current design. To be discussed with the Turnpike.		
60	Permit drawing 31 of 69	31	HWM/NJT/MW	Adjust Easement to include top part of Pond PG (site 10)	Noted. To be discussed with the Turnpike.		
61	Permit drawing 31 of 69	31	HWM/NJT/MW	Color BZ symbology in Inset to match plan sheet	Updated		
62	Permit drawing 31 of 69	31	HWM/NJT/MW	Add wetland symbology to wetland pocket in inset	Updated		
63	Permit drawing 31 of 69	31	HWM/NJT/MW	Need inset of Site 12 for clarity	These were not provided in the original permit submitted to the agencies.		
64	Permit drawing 31 of 69	31	HWM/NJT/MW	Add Pond drainage language	Updated		
65	Permit drawing 31 of 69	31	HWM/NJT/MW	is TDE south side of road for EC device?	It is not used for EC in the current design. To be discussed with the Turnpike.		
66	Permit drawing 31 of 69	31	HWM/NJT/MW	Toe protection not listed on detail sheet	These were not provided in the original permit submitted to the agencies. Please refer to the hydraulic plans.		
67	Permit drawing 31 of 69	31	HWM/NJT/MW	Need details for EDB	These were not provided in the original permit submitted to the agencies. Please refer to the hydraulic plans.		
68	Permit drawing 38 of 69	33	HWM/NJT/MW	Label Pond on right side of page add rip rap pad to outlet of ditch at STA 409+00	Updated		
69	Permit drawing 38 of 69	33	HWM/NJT/MW	Where are streams SBC & SBD?	Updated		

70	Permit drawing 38 of 69	33	HWM/NJT/MW	Lateral Base Ditch in pond not listed	These were not provided in the original permit submitted to the agencies. Please refer to the hydraulic plans.		
71	Permit drawing 38 of 69	33	HWM/NJT/MW	Add Pond drainage language	Updated		
72	Permit drawing 38 of 69	33	HWM/NJT/MW	extend ditches to rip rap pads at -Y12B-	Roadway ditches already drain to riprap pads; no special cut ditch is required.		
73	Permit drawing 38 of 69	33	HWM/NJT/MW	is TDE south side of road for EC device?	It is not used for EC in the current design. To be discussed with the Turnpike.		
74	Permit drawing 38 of 69	33	HWM/NJT/MW	Buffer set shows impact in TDE south side of road; adjust so impacts match	Updated		
75	Permit drawing 38 of 69	33	HWM/NJT/MW	what are proposed temporary wetland impacts for?	These have been corrected. There are no temporary impacts at this site.		
76	Permit drawing 38 of 69	33	HWM/NJT/MW	Tie two ditches at STA 408+00 Rt	Tying the ditches together would require a ditch of over 15%, which is why water from the top ditch is piped to the bottom ditch.		
77	Permit drawing 43 of 69	34	HWM/NJT/MW	Adjust ditch line at STA 420+00 Lt so it sheet flows to wetland, not direct discharge into toe protection	Updated		
78	Permit drawing 43 of 69	34	HWM/NJT/MW	Why did ditch narrow up at 422+00 Rt?	Updated		
79	Permit drawing 43 of 69	34	HWM/NJT/MW	Should ditch at 421+00 Rt tie to channel?	Updated		
80	Permit drawing 46 of 69	35	HWM/NJT/MW	Series of ditchlines on 100% hydraulic plans that do not show up here	Updated		
81	Permit drawing 46 of 69	35	HWM/NJT/MW	What is PUE at STA 435+00 Lt for?	Noted. To be discussed with the Turnpike.		
82	Permit drawing 46 of 69	35	HWM/NJT/MW	Pipes are sticking out from fill slope; shown differently on 100% hydraulic plan set	Updated		
83	Permit drawing 46 of 69	35	HWM/NJT/MW	Toe protection needs to follow fill line and needs detail	Updated - see hydraulic plans for details.		
84	Permit drawing 46 of 69	35	HWM/NJT/MW	Carry MC to ROW at Site 17	Updated		
85	Permit drawing 46 of 69	35	HWM/NJT/MW	Wetland impacts at Site 17 get outside ROW	Updated		
86	Permit drawing 46 of 69	35	HWM/NJT/MW	Take temp stream impacts to PDE on Site 17	Updated		
87	Permit drawing 46 of 69	35	HWM/NJT/MW	What is TDE for on south side of road?	Noted. To be discussed with the Turnpike.		
88	Permit drawing 46 of 69	35	HWM/NJT/MW	Where is ROW line for pipe replacement on Y12?	Noted. To be discussed with the Turnpike.		
89	Permit drawing 46 of 69	35	HWM/NJT/MW	What is PUE for on Y12?	Noted. To be discussed with the Turnpike.		
90	Permit drawing 49 of 69	37	HWM/NJT/MW	Need insets of impacts on this page	These were not provided in the original permit submitted to the agencies.		
91	Permit drawing 49 of 69	37	HWM/NJT/MW	Need an easement around pond PK	Noted. To be discussed with the Turnpike.		
92	Permit drawing 49 of 69	37	HWM/NJT/MW	extend toe protection to culvert on north side of road	Updated		
93	Permit drawing 49 of 69	37	HWM/NJT/MW	Pipe structure on Y13PC outside ROW	It is within PDE.		
94	Permit drawing 49 of 69	37	HWM/NJT/MW	24-inch RCP on Y13PC outlet pointed at/under guardrail	That structure is an inlet not an outfall.		
95	Permit drawing 49 of 69	37	HWM/NJT/MW	Toe protection needs detail	These were not provided in the original permit submitted to the agencies. Please refer to the hydraulic plans.		
96	Permit drawing 49 of 69	37	HWM/NJT/MW	What is gap in stream/rip rap just north of Y13A?	Bank stabilization		
97	Permit drawing 49 of 69	37	HWM/NJT/MW	Adjust labels on Y13A so they are not upside down	We were requested in other comments to remove unnecessary items. These were removed to avoid clutter.		
98	Permit drawing 50 of 69	37A	HWM/NJT/MW	Need an easement around pond PK	Noted. To be discussed with the Turnpike.		
99	Permit drawing 59 of 69	38	HWM/NJT/MW	What is PUE on north side of page for?	Noted. To be discussed with the Turnpike.		
100	Permit drawing 59 of 69	38	HWM/NJT/MW	Adjust angle of ditch tie in to channel SBJ (site 21 North)	Updated		
101	Permit drawing 59 of 69	38	HWM/NJT/MW	Pull structure 2101 back to outlet in ditch rather than beyond it (depicted differently in 100% hydraulic plan set)	Updated		
102	Permit drawing 59 of 69	38	HWM/NJT/MW	adjust ditch tie in to channel SBK (site 22 North)	Updated		
103	Permit drawing 59 of 69	38	HWM/NJT/MW	rip rap extend beyond PDE above wetland WCB	This matches the original permit plans. To be discussed with the Turnpike.		

104	Permit drawing 59 of 69	38	HWM/NJT/MW	Pull structure 2107 back to outlet in ditch rather than beyond it (depicted differently in 100% hydraulic plan set)	Updated		
105	Permit drawing 59 of 69	38	HWM/NJT/MW	Rip rap on SBJ (site 21 South) extends beyond Easement into TDE; please adjust	This matches the original permit plans. To be discussed with the Turnpike.		
106	Permit drawing 59 of 69	38	HWM/NJT/MW	Carry ditch from outlet 2045 to channel	Updated		
107	Permit drawing 59 of 69	38	HWM/NJT/MW	STA number 20 is shown on left side of page near pipe for SBI but matchline station says STA 32+00	Updated		
108	Permit drawing 64 of 69	63	HWM/NJT/MW	Add leader to appropriate area for Lateral V ditch call out (Y13A and Y13B intersection)	We have removed the label due to a previous comment to reduce clutter on the plans.		
109	Permit drawing 64 of 69	63	HWM/NJT/MW	Pipe on SBO shorter on 100% hydraulic design plan set	Updated		
110	Permit drawing 64 of 69	63	HWM/NJT/MW	Show ditchlines	Noted. Need further clarification.		
111	Permit drawing 64 of 69	63	HWM/NJT/MW	insure adequate room to construct pipe on SBO	We have reviewed and feel there is adequate room.		
112	Permit drawing 64 of 69	63	HWM/NJT/MW	What system is being "retained"? (bottom of page)	This has been removed		
113	Permit drawing 64 of 69	63	HWM/NJT/MW	What is PUE for bottom left side of page?	Noted. To be discussed with the Turnpike.		
114	Permit drawing 66 of 69	64	HWM/NJT/MW	What is PUE for near STA 67+00 Lt?	Noted. To be discussed with the Turnpike.		
115	Permit drawing 66 of 69	64	HWM/NJT/MW	Align rip rap pad with pipe and channel at Impact 24	Updated		
116	Permit drawing 67 of 69	65	HWM/NJT/MW	There is no rip rap at the end of the 30-inch RCP (in the PDE)	Rip rap added.		
117	Permit drawing 67 of 69	65	HWM/NJT/MW	The whole wetland at Site 26 should be mechanized clearing	Updated		
118	Permit drawing 67 of 69	65	HWM/NJT/MW	What is the easement for around Site 26? If for EC devices, the impact to the wetland will not be mechanized clearing	Noted. To be discussed with the Turnpike.		
119	Permit drawing 67 of 69	65	HWM/NJT/MW	Change the ditch callout labels to red	Removed labels due to a previous comment to eliminate clutter on the plans.		
120	Buffer Drawing 1 of 19	ALL	HWM/NJT/MW	Adjust Drawing sheets to say "Buffer Drawing" not "permit"	Updated		
121	General	ALL	HWM/NJT/MW	Match Buffer impact site numbers to wetland permit site numbers; if a surface water impact does not have an associated buffer impact, skip it in the buffer numbering	We have followed the previous permit application buffer sites since this is a modification.		
122	Buffer Drawing 1 of 19	1	HWM/NJT/MW	Add sheet numbers to overall plan view	Updated		
123	Buffer Drawing 3 of 19	23	HWM/NJT/MW	Remove duplicate station numbers	Updated		
124	General	ALL	HWM/NJT/MW	Where pond buffers extend beyond the ROW, the plans currently show impacts to the entire buffer; however, the callout label states they are only shown to ROW but calculated in their entirety. Please adjust so the impacts are shown correctly	Updated		
125	Buffer drawing 4 of 19	24	HWM/NJT/MW	Utility impacts were originally proposed along stream SAM; account for buffer impacts appropriately and include a PUE where needed	Sewer line crosses NCDOT ROW at this location. Please refer to utility plans.		
126	Buffer drawing 4 of 19	24	HWM/NJT/MW	Buffer impacts extend beyond wetland impacts on south side; adjust so they match	Updated		
127	Buffer drawing 4 of 19	24	HWM/NJT/MW	Where is Buffer plan sheet 8? Rip rap pad in buffer at STA 295+00	Included		
128	Buffer drawing 10 of 19	31	HWM/NJT/MW	Label inset	Updated		
129	Buffer drawing 10 of 19	31	HWM/NJT/MW	In inset, adjust buffer hatching color to match plan sheet	Updated		
130	Buffer drawing 10 of 19	31	HWM/NJT/MW	In inset, add wetland symbology to wetland pocket	Updated		
131	Buffer drawing 10 of 19	31	HWM/NJT/MW	Why did buffer hatching change over near WBJ?	It was two different cells. This has been updated.		
132	Buffer drawing 10 of 19	31	HWM/NJT/MW	Wetland impacts are shown below toe protection at Site 11 (Stream SAX); this will also be buffer impact	Updated		
133	Buffer drawing 10 of 19	31	HWM/NJT/MW	Buffer impact shown below EDB (Site 12) will more than likely be "mitigable" rather than "allowable"	We do not anticipate impacts at this location. Matches previously submitted permit drawings.		
134	Buffer drawing 11 of 19	33	HWM/NJT/MW	Are streams SAZ, SBC or SBC buffered?	They are buffered streams. The drawing match what was provided in the original permit drawings.		

135	Buffer drawing 11 of 19	33	HWM/NJT/MW	extend ditches to rip rap pads at -Y12B-	Roadway ditches already drain to riprap pads; no special cut ditch is required.		
136	Buffer drawing 11 of 19	33	HWM/NJT/MW	Carry buffer impacts for Site 15 to TDE	Updated		
137	Buffer drawing 11 of 19	33	HWM/NJT/MW	What is TDE for at Site 15?	Noted. To be discussed with the Turnpike.		
138	Buffer drawing 11 of 19	33	HWM/NJT/MW	Buffer impacts extend beyond wetland impacts on south side; adjust so they match	Updated		
139	Buffer drawing 13 of 19	35	HWM/NJT/MW	Buffer impacts at Site 16 extend beyond ROW; please adjust	Updated		
140	Buffer drawing 13 of 19	35	HWM/NJT/MW	Impacts at Site 16 are not depicted the same on the Wetland sheets; please adjust so they match	Updated		
141	Buffer drawing 14 of 19	37	HWM/NJT/MW	Need easement around Pond	Noted. To be discussed with the Turnpike.		
142	Buffer drawing 14 of 19	37	HWM/NJT/MW	Label Pond	Updated		
143	Buffer drawing 14 of 19	37	HWM/NJT/MW	Why is there a gap in buffer impacts south side of the road?	Bank stabilizarion		
144	Buffer drawing 14 of 19	37	HWM/NJT/MW	Site 16 is listed here again; that was the previous impact.	Updated		
145	Buffer drawing 15 of 19	37A	HWM/NJT/MW	Need easement around Pond	Noted. To be discussed with the Turnpike.		