Note: When viewing this document in “Word” It is very helpful to have “ViewàNavigation Pane” turned on.

Procedure:

Most projects utilize similar construction notes. To maintain consistency with construction specifications and between projects, use the following steps:

1. Save this file to your project directory.
2. Review the master construction note list and add unique notes that will be required for your project.
3. Create a section for each plan sheet, and copy notes from the master list.
4. Send the file to the project drafter for plan sheet creation or revision.

Black notes are used on street plans (3, 4, 5). Blue notes are used in special cases on street plans. Green notes are used on stormwater drainage plans (D-1, D-2, D-3) and match BES standards.

Instructions:

Due to drafting constraints, construction numbers will not exceed 2 digits (1-99). Therefore, assess how many notes before assigning numbers. Group items in the order shown in this document. Number sequentially, with gaps in the numbering between the various categories so that additional notes can be added later as needed.

Example:

1 Save and protect tree.

 2 Install orange plastic mesh fence.

 See Sht. 2B.

 3 Remove inlet.

 20 Relocate utility pole / guy wire (by others).

 21 Adjust telephone facility (by others).

 22 Adjust water facility (by others).

 40 Construct curb ramp - 2.

 Install safety yellow truncated

 domes on new surface.

 See 2F-01 Shts.

 See Std. Drg. P-547.

 41 Construct concrete driveway.

 See 2F Shts.

 See Std. Drg. P-528, P-529, P-531, P-532.

 42 Construct doweled concrete island.

 See Std. Drg. P-555.

 43 Construct type “G-2” inlet w/o sump - 1.

 See Std. Drg. RD363, RD364 & RD365.

Each note shall have the same note number throughout an entire project plan set. Specify the number of “each” items for each sheet when applicable. Brackets [ ] indicate multiple options for note - e.g., “Remove [asphalt, concrete] pavement.” Choose one item per construction note. If there is an applicable detail, include a reference.

Eliminate bubble notes providing redundant information. Don’t call out construction items that are depicted in typical sections; don’t call out removal items that are defined in Subsection 00320.01 Areas of Work. Show clearing limits on typical sections. These removal/construction notes are still included in the list of plan notes below but shown in blue to indicate they are notes to be used only for special cases, such as items outside the construction template, or to provide necessary clarification.

Call out stations to show limits for curb and/or curb and gutter rather than using bubble note.

Show sawcutting with line type (“Sawcut” embedded) rather than using a bubble note.

Construction notes for utility items to be adjusted by the contractor are located within the "Construction" category.

Notes should be modified as necessary to match with construction on plans.

For all locations which indicate "by others," replace with the specific party who will be performing the work, e.g. PGE, Lumen, PP&L, PPR, adjacent property owner.

Avoid referencing specific details in the plan sheets so that the notes do not need to be updated if the detail is moved or renumbered. Instead refer to the section of the plans that the detail resides. For example, a note can say to “See Elevation Plan Detail on Sheets 2F” or “See Typical Section on Sheet 2B.”

Do not use construction notes to reference other sections of the plans. Do not use "General Notes" to reference other sheets. The "Index of Sheets" plan sheet 1A indicates the location of design information.

## Typical Street Plan or Erosion Control Plan Site Preparation Notes (1-5)

\_\_ Install construction entrance, Type 3 - #.

 See Std. Drg. RD1000.

\_\_ Install Type 3 inlet protection - #.

 See Std. Drg. RD1010.

\_\_ Install sediment fence prior to beginning earthwork

 See Std. Drg. RD1040.

\_\_ Save and protect tree - #.

\_\_ Install orange plastic mesh fence.

 See Sht. 2B.

\_\_ Install trunk and buttress protection.

 See tree permit.

\_\_ Save brush, hedge, or other vegetation.

## Typical Street Plan Removal Notes (5-15)

\_\_ Trim brush, hedge, or other vegetation.

\_\_ Remove tree - #.

\_\_ Remove brush, hedge, or other vegetation.

\_\_ Remove/cap sprinkler line.

\_\_ Remove curb.

\_\_ Remove sidewalk.

\_\_ Remove [asphalt, concrete] pavement.

\_\_ Remove aggregate base.

\_\_ Remove fence.

\_\_ Remove sign and post - #.

\_\_ Remove sign - #.

\_\_ Remove inlet - #.

\_\_ Cap abandoned pipe - #.

\_\_ Remove maintenance hole - #.

\_\_ Remove pipe - # ft.

\_\_ Remove sump - #.

\_\_ Remove guardrail and posts.

 Sta. “A” ###+## to Sta. “A” ###+##±.

\_\_ Remove survey benchmark and deliver to inspector - #.

\_\_ Remove street light pole and luminaire - #.

\_\_ Remove signal equipment.

\_\_ Remove railroad track and ties.

## Typical Street Plan Utility Notes (15-25)

\_\_ Relocate utility pole / guy wire (by [PGE, PPL, Lumen, Level3]).

\_\_ Remove utility pole / guy wire (by [PGE, PPL, Lumen, Level3]).

\_\_ Relocate utility vault (by [PGE, PPL, Lumen, Level3]).

\_\_ Adjust utility vault to finished grade (by [PGE, PPL, Lumen, Level3]).

\_\_ Remove utility vault (by [PGE, PPL, Lumen, Level3]).

\_\_ Adjust water facility (by [PWB, RWD]).

\_\_ Relocate water facility (by [PWB, RWD]).

\_\_ Install water meter (by [PWB, RWD]).

\_\_ Install hydrant (by [PWB, RWD]).

\_\_ Adjust gas facility (by [NWN]).

\_\_ Relocate gas facility (by [NWN]).

\_\_ Adjust electrical facility (by [PBOT, PGE, PPL]).

\_\_ Relocate electrical facility (by [PBOT, PGE, PPL]).

## Typical Street Plan Relocation Notes (20-25)

\_\_ Relocate irrigation (bv [property owner of XXX, 503-###-####]).

\_\_ Relocate bus shelter (by [TriMet]).

## Typical Street Plan Construction Notes (25-99)

\_\_ Remove and reinstall mailbox support - #.

 Construct concrete collar - #.

 See ODOT Std. Drg. RD100.

\_\_ Install [single/multiple] mailbox support - #.

 Construct concrete collar - #.

 Relocate mailbox to new support.

 See Std. Drg. RD100.

\_\_ Construct standard curb.

 See Std. Drg. P-540.

\_\_ Construct [12, 18, 24] inch curb and gutter.

 See Std. Drg. P-540.

\_\_ Construct curb ending.

 See Std. Drg. P-544.

\_\_ Construct concrete walk.

 See Std. Drg. P-551.

\_\_ Construct monolithic curb and sidewalk [with X inch gutter].

 See Std. Drg. P-551.

\_\_ Construct concrete walk transition panel.

 See Std. Drg. P-549.

\_\_ Widen sidewalk around mailbox.

 See Std. Drg. RD720.

\_\_ Construct curb ramp - #.

 Install safety yellow truncated domes on new surface.

 See 2F Shts.

 See Std. Drg. [P-547, P-548].

\_\_ Restamp street name in new curb.

\_\_ Salvage horse ring.

 Install horse ring in new curb - #.

\_\_ Construct concrete driveway.

 See 2F Shts.

 See Std. Drg. [P-528, P-529, P-531, P-532].

\_\_ Construct concrete alley driveway.

 See Std. Drg. P-525.

\_\_ Construct concrete historic driveway.

 See Std. Drg. P-526.

\_\_ Construct asphalt approach.

 See Std. Drg. P-536.

\_\_ Construct ## inch asphalt concrete pavement repair.

 See 2A Shts.

 See Std. Drg. P-506.

\_\_ Construct [doweled, inset] concrete island.

 See Std. Drg. P-555.

\_\_ Construct accessible route concrete island.

 See Std. Drg. P-556.

\_\_ Construct concrete inlets, type G-2 w/o sump - #.

 RIM Elev. = ###.##

 I.E. (12” in) = ###.##

 I.E. (12” out) = ###.##

 See Std. Drg. RD363, RD364 & RD365.

\_\_ Construct sidewalk drain.

 See Detail X on Sht. D-X.

 (detail DET1360 must be incorporated as a project detail)

\_\_ Construct concrete valley gutter.

 See Std. Drg. RD700.

\_\_ Construct [brick, concrete, permeable] pavers.

 See Std. Drg. P-572.

\_\_ Construct [##] inch thick aggregate shoulders.

\_\_ Construct trench resurfacing.

 See Std. Drg. [P-505, P-514, P-515, P-516, P-518, P-523].

\_\_ Adjust maintenance hole, major - #.

 See Std. Drg. P-507, Method B.

\_\_ Adjust maintenance hole, minor - #.

 See Std. Drg. P-507, Method B.

\_\_ Adjust inlet - #.

 See Std. Drg. P-201.

\_\_ Adjust box - #.

\_\_ Abandon maintenance hole - #.

\_\_ Abandon sump maintenance hole - #.

\_\_ Install permanent plug - #.

\_\_ Install loose riprap, class ###. See Sht. 2B.

\_\_ Install metal handrail, # rails.

 See Std. Drg. RD770.

\_\_ Construct type 2A guardrail.

 See Std. Drg. RD400.

\_\_ Construct type C guardrail end pieces.

 See Std. Drg. RD415.

\_\_ Const type 1 guardrail anchor.

 See Std. Drg. RD450.

\_\_ Construct type CL-6R fence.

 See Std. Drg. RD815.

\_\_ Construct ## foot by ## inch chain link double gate - #.

 See Std. Drg. RD820.

\_\_ Install pipe post sign support with breakaway footing.

 See Std. Drg. P-400, P-405, P-406.

\_\_ Install bicycle rack.

 See Std. Drg. P-576.

\_\_ Install topsoil, 6” thick.

\_\_ Install lawn seeding.

\_\_ Install [bark/rock] mulch, 4” thick.

\_\_ Plant 3” tree,

 Goldenrain Tree *Koelreuteria paniculata* - #.

 See Std. Drg. P-581.

\_\_ Plant 2.5” tree

 Native Flame® American Hornbeam

 *Carpinus caroliniana* ‘J.N. Upright’ - #.

 See Std. Drg. P-581.

\_\_ Construct 4’ x 6’ tree well.

 See Std. Drg. P-581.

\_\_ Plant tree (by [PPR, Urban Forestry]).

## Typical Stormwater Plan Construction Notes (25-99)

\_\_ Construct subsurface drain outlet - #.

 See Std. Drg. RD312.

\_\_ Install 4" slotted PVC drain pipe - #.

 See Detail X on Sht. D-X.

\_\_ Connect to existing structure.

 See Std. Drg. RD339.

\_\_ Connect to existing maintenance hole

 via exist. core hole.

 See Std. Drg. RD345.

\_\_ Connect to existing #" storm sewer pipe.

\_\_ Construct concrete maintenance hole, sed. - #.

 See Std. Drg. P-161, P-507 Method A.

\_\_ Construct concrete maintenance hole, sed.

 in location of existing sump - #.

 See Std. Drg. P-161, P-507 Method A.

\_\_ Construct 48” sump maintenance hole, 30’ deep - #.

 See Std. Drg. P-160, P-507 Method A.

\_\_ Construct 48” concrete maintenance hole - #.

 See Std. Drg. P-150, P-507 Method A.

\_\_ Construct 48” concrete maintenance hole

 over exist. sewer (~#’ deep) - #.

 See Std. Drg. P-150, P-151, P-507 Method A.

\_\_ Reconstruct maintenance hole base

 w/ beaver slide - #.

 See Std. Drg. P-183.

\_\_ Construct stormwater facility.

 See Detail X on Sht D-X.

 See Std. Drg. P-307.

\_\_ Construct concrete forebay.

 See Std. Drg. P-309.

\_\_ Construct beehive inlet - #.

 See Std. Drg. P-309.

\_\_ Construct metal inlet - #.

 See Std. Drg. P-300 & P-302.

\_\_ Construct rotated metal inlet - #.

 See Std. Drg. P-301 & P-302.

\_\_ Pothole existing utility to verify depth - #.

\_\_ Install ##.# deg. PVC bend.

 ASTM D3024, SDR 35 Class D bedding

 flexible coupling w/ full-width stainless steel.

 shear band or concrete closure collar.

 See Std. Drg. RD339.

\_\_ Orient maintenance hole cone so frame

 is in street section, not driveway apron.

\_\_ Rotate cone and steps to keep

 access to maintenance hole.

\_\_ Construct type “CG-3” inlet w/o sump - #.

 See Std. Drg. RD371 & RD372.

\_\_ Construct type “G-2” inlet w/o sump - #.

 See Std. Drg. RD363, RD364 & RD365.

\_\_ Construct type “CG-2” inlet w/o sump - #.

 See Std. Drg. RD363, RD365 & RD366.

\_\_ Install ##” PVC storm sew. pipe - # ft.

 ASTM D3034 SDR35 class “D” bedding.

\_\_ Abandon >12" pipe with CLSM - # cu. yd.

\_\_ Fill and abandon structure, sump - #.

\_\_ Fill and abandon structure, maintenance hole - #.

\_\_ Install 6” term. sew. cleanout w/ frame and cover - #.

 See Std. Drg. P-258, P-259, P-260.

\_\_ Install 6” lat. sew. cleanout w/ frame and cover - #.

 See Std. Drg. P-257, P-259, P-260.

\_\_ Install 10” D.I. storm sewer pipe.

 ASTM Class 52 Class "D" bedding

\_\_ Construct 4" wide drainage notch.

 See Detail X on Sht. D-X.

## Project Notes:

## Sheet 2D-1

“Paste notes here”

Example:

\_\_ Install type 3 inlet protection - #.

 See Std. Drg. RD1010.

\_\_ Install sediment fence prior to beginning earthwork.

 See Std. Drg. RD1040.

## Sheet 3

“Paste notes here”

## Sheet 4

“Paste notes here”

## Sheet 5

“Paste notes here”

## Sheet D-1

“Paste green notes here”

## Sheet D-2

“Paste green notes here”

## Sheet D-3

“Paste green notes here”

## Sheet S-1

“Create or Paste notes here”