Point Numbering Standards

The following information describes Point Numbering standards for survey data:

When setting control, collecting PLSS or TOPO use the system outlined below -

PLSS (field collected)
Code:"MON"
Monument: Any element that would depict PLSS delineation of section corners.
Point number: 1 to 99
Method: TPS and/or GNSS; RTK, fast static

Primary Control (office adjusted)
Code:"CP"
Monument: #5 rebar w/Pink SCR cap,
Point number: 100 - 299
Method: TPS and/or GNSS; RTK, fast static

Secondary Control (field adjusted)
Code:"TCP"
Monument:
#5 rebar, Hub, PK, ect.
Point numbers: 300 - 3999
Method: TPS Traverse and/or GNSS RTK

Tertiary Control (no adjustment)
Code:"TCP"
Monument: Hub, PK, Aerial Targets, ect.
Point numbers: 4000 - 5999
Method: TPS Spun from primary or secondary control and/or GNSS RTK

WSDOT Alignment Monuments (field collected)
Code:"MON" or "MCC"
Monument: Rebar, pipe or pin with tack or PK, encased in Monument case and/or cover
Point number: 6000 - 7999
Method: TPS and/or GNSS; RTK, fast static

Cadastral (field collected)
Code:"Prop" or "PROPC"
Monument: Rebar, pipe or pin with tack or PK, encased in Monument case and/or cover
Point number: 8000 to 9999
Method: TPS and/or GNSS; RTK, fast static

General Topo (field collected)
Code: varies per feature
Monument: NONE
Point numbers: 10000+
Method: TPS and/or GNSS RTK
Running point number for the project. If there is more than one collector, jump 10,000 per crew.
Restart point number for projects with day file naming conventions.
These are the Point Numbers to be written on stakes, recorded in the field data, and written in the field notes at the time of the survey.

Task Description Standards

The following table describes Point Numbering standards for survey data:

ABLT = As Built
BHPZ = Borehole and/or Piezometer
CTRL = Control
FAST = Fast Static, Static or Leap frog
HDRO = Hydraulics (Hydrone or Bathymetric)
MONS = WSDOT highway monuments
PLSS = Cadastral Survey recon or collection
SCAN = Terrestrial LIDAR scan
STAK = Staking
TOPO = Topography
TRAV = Traverse
TRUE = Control Truthing
UTIL = Utilities
UAVS = Aerial photos, stills and video
WLFD = Wetland Flags or environmental

spn = State Plane North (grid)
sps = State Plane South (grid)
*no prefix indicates WSDOT Project Datum

Project Description Standards

Each crew shall be provided with the following instruments; data collector, GNSS antenna, total or multi station, weather meter. These items are referred to as a "UNIT" A thru Z. Glass, carrier, tribrach, poles and tripods will be provided in the vehicles and will not be described as a UNIT.

When naming a project use the letters "U" for unit and the letter assigned to these items. Unit G will be used for this example, UG.

Collector (DBX & RW5)

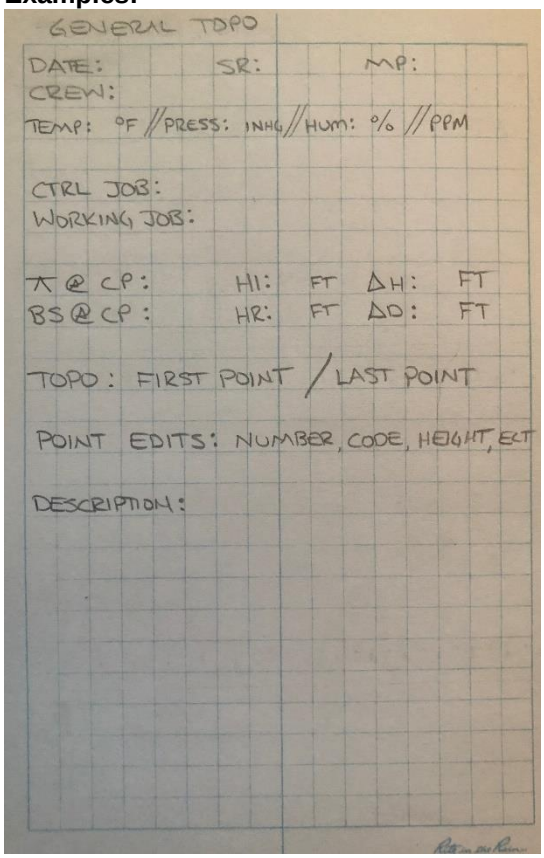
- Create one project per location, per unit project. For the control point file for the data collector. Naming convention example; **02007024_CTRL_UG** (STATE ROUTE MILEPOST__TASK_UNIT)
- At any time new control is established export to a .TXT file and added to the master control. Naming convention example; **spn_020_07024_CTRL.txt**
- For projects other than Fish Passage. Day files shall be named with a 2 digit Year 2 digit Month 2 digit Day. Name breaks will be separated with an under bar "_"
  Naming convention example; Topo project on May 8, 2000 using Unit G; 200508_TOPO_UG

Field Note Standards

Field notes shall be taken for each project and recorded each day while in the field. Field notes can either be scanned or photographed of this information. The electronic data shall be placed in the "Daily" folder of each project. The file name shall be the state route mile post_year month day.

Naming convention example 41003577_200508

Examples:


GENERAL TOPO

DATE: SR: MP:
CREW:
TEMP: °F // PRESS: INHG // HUM: % // PPM

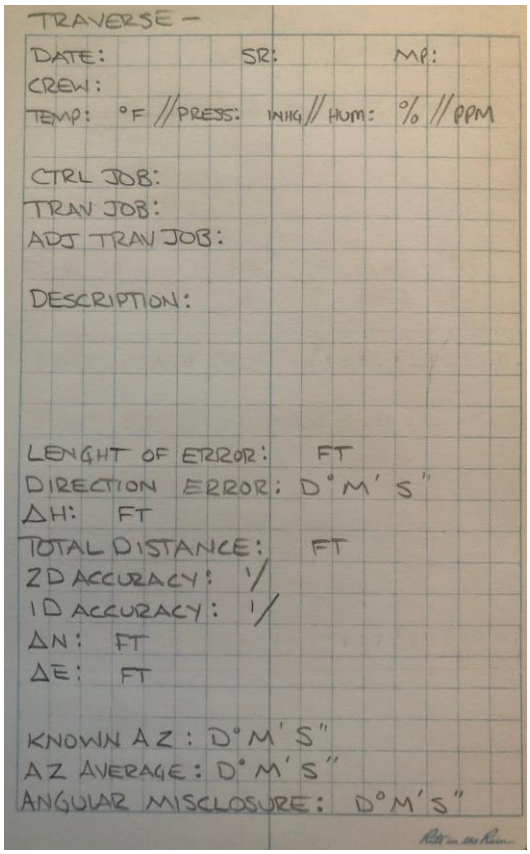
CTRL JOB:
WORKING JOB:

∡ @ CP: HI: FT ΔH: FT
BS @ CP: HR: FT ΔD: FT

TOPO: FIRST POINT / LAST POINT

POINT EDITS: NUMBER, CODE, HEIGHT, ECT

DESCRIPTION:


TRAVERSE –

DATE: SR: MP:
CREW:
TEMP: °F // PRESS: INHG // HUM: % // PPM

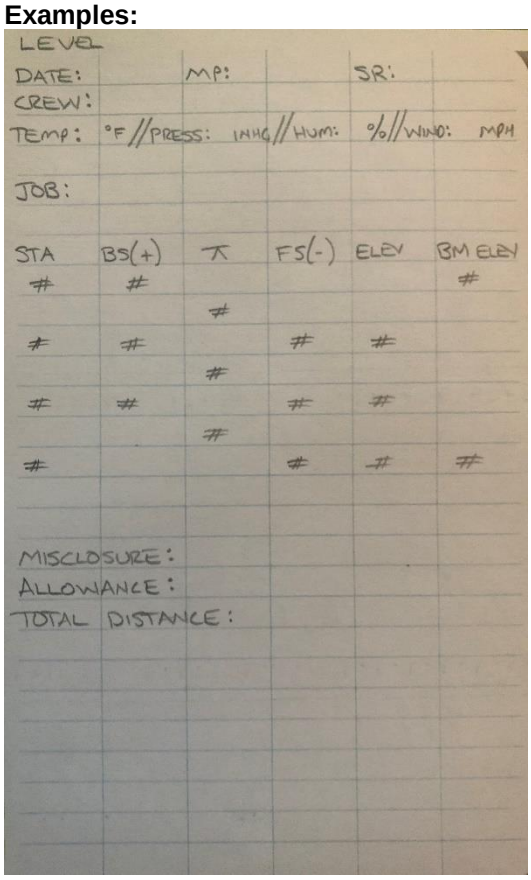
CTRL JOB:
TRAV JOB:
ADJ TRAV JOB:

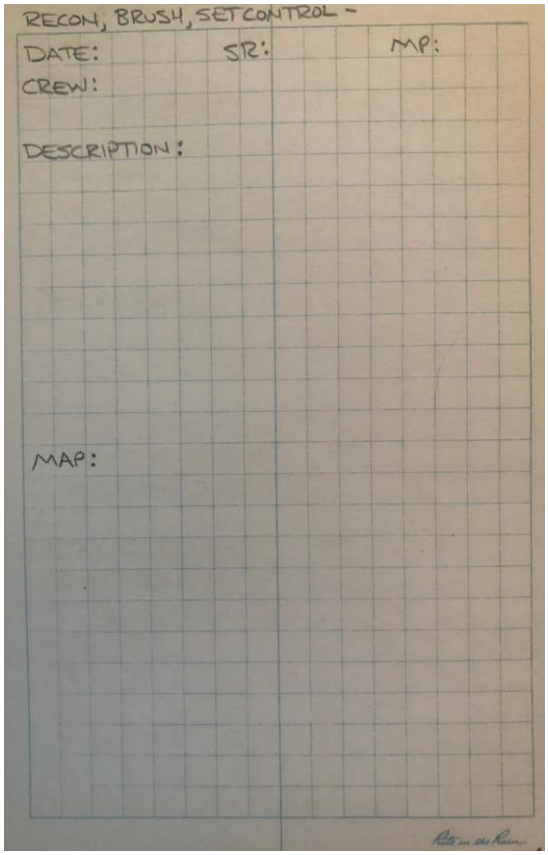
DESCRIPTION:

LENGHT OF ERROR: FT
DIRECTION ERROR: D° M' S"
ΔH: FT
TOTAL DISTANCE: FT
2D ACCURACY: 1/
1D ACCURACY: 1/
ΔN: FT
ΔE: FT

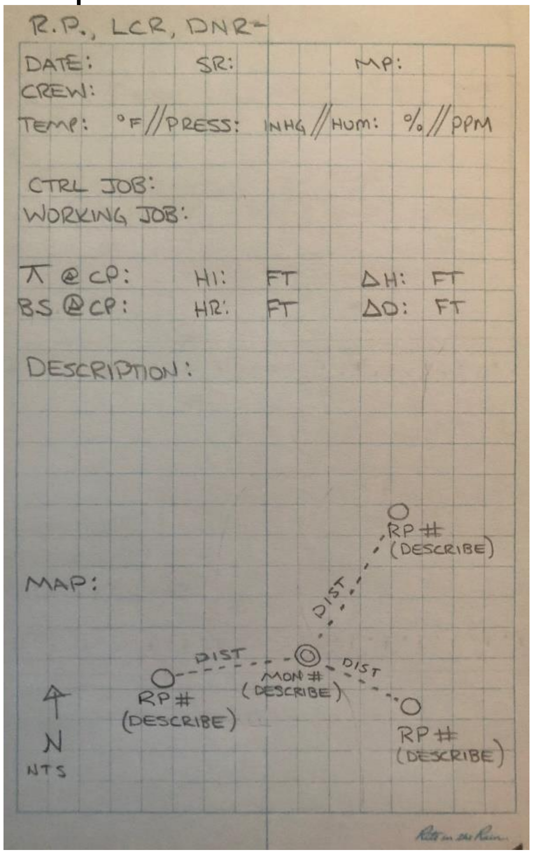
KNOWN AZ: D° M' S"
AZ AVERAGE: D° M' S"
ANGULAR MISCLOSURE: D° M' S"

Examples:


LEVEL
DATE:
MP:
SR:
CREW:
TEMP: °F // PRESS: INHG // HUM: % // WIND: MPH
JOB:
STA
BS(+)
FS(-)
ELEV
BM ELEV
MISCLOSURE:
ALLOWANCE:
TOTAL DISTANCE:


RECON, BRUSH, SET CONTROL -
DATE:
SR:
MP:
CREW:
DESCRIPTION:
MAP:

Examples:



Leap Frog Fast Static Observation Schedule

Date:
Project WO:
Project Name:
SR:
MP:

		WSRN Sites	Dual 5 Minute Occupation Time Leap Frog
Unit #:			
Operator:			
Job Name:	_FAST_		
Description:	Leap frog Fast Static		
Coord.System:			
Working Style	Static		

Point ID.	Hook Height	Remarks
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	
Pt.ID.	m/ ft	

Electronic File Standards

Each project shall be placed in a folder based on State Route “SR” represented with 3 digits. The scoped beginning mile post, represented to 5 significant digits, carrier to the hundredths of a mile. The abbreviated scoped project description. The scoped project task. There will never be periods in the name of files or folders. Naming convention example: 410 > 03577_Clay Creek Culvert rehab_CED

- State Route: 410
- Mile Post: 35.77
- Description: Clay Creek Culvert rehab
- Chronic Environmental Deficiency

HOLD FOR PRINT SCREENS OF SCR FOLDERS PLUS DESCRIPTIONS (ORD or InROADS?)

Activity Flagging Color
Clearing and Grubbing White
Right of Way Red
Slope Stakes Blue
Center line Yellow
Drainage Blue
Signing and Illumination White
References and Control Multicolor
Selective Thinning Orange (for tree removal)
Trees Remaining Blue