Preliminary Survey CADD Levels (PCL)
Imperial Units
APRIL 2004

DEFAULT PARAMETERS

1. Except where noted all colors are CO=0, WHITE.

2. Except where noted all line codes are LC=0, SOLID.

3. "*****"Indicates item to be labeled and label to use.

4. All text for labels, names and notes is UPPER case.

5. All text fonts are FT= 5.

6. Text for all levels shall be the same attributes as on English Topog Pull Down Menu.

7. Text size = **Urban** 1:50 (Active Scale .5) (TX= 5.0) (Line Codes Active Scale .5)
   Rural 1:100 (Active Scale 1.0) (TX=10.0) (Line Codes Active Scale 1.0)

8. Baselines (LV= 17 & 18) placed in a separate file, including annotation.

9. Contours are placed in a separate file.

10. Plot Size **Urban** 1:50 order 100:1 Scale (1/2 size)
    Rural 1:100 order 200:1 Scale (1/2 size)

LEVEL 1

Bench Marks (AC=BM) (CO=0) (WT=0)

Horizontal Control Points (AC=CP) (CO=0) (WT=0)

Vertical Control Points (AC=CP) (CO=0) (WT=0)

LEVEL 2

Horizontal Control Points ECC. (AC=CP) (CO=0) (WT=0)

Mapping Limits (LC=2) (CO=0) (WT=0)

North Arrow

Photo Center (AC=CEN) (CO=10, ORANGE) (WT=0)

Pass Points (AC=PUG) (WT=0)

LEVEL 3

City Limits (LC=CITY LIMITS-E) (CO=2, GREEN) (WT=0)

Section Line (AC=SL) (CO=2, GREEN) (WT=1)

Section Corner (Found) used as CP

¼ Section Corner (Found) used as CP

Government Lot Corners (Found) used as CP

Meander Corner (Found) used as CP

LEVEL 4 - Not Used

LEVEL 5

Brush (CO=2, GREEN) (WT=0)

Coniferous Shrub (AC=TD3) (CO=2, GREEN) (WT=0)

Coniferous Tree (AC=TC1) (CO=2, GREEN) (WT=0)

Coniferous Tree Line (LC=TREE CONIFEROUS-E) (CO=2, GREEN) (WT=0)

Deciduous Shrub (AC=TD3) (CO=2, GREEN) (WT=0)

Deciduous Tree (AC=TD1) (CO=2, GREEN) (WT=0)

Deciduous Tree Line (LC=TREE DECIDUOUS-E) (CO=2, GREEN) (WT=0)

Tree Stump (AC=TS) (CO=1, BEIGE) (WT=0)

LEVEL 6

Canals (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Flow Line (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Lakes (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Marsh (AC=MAR) (CO=5, LT. BLUE) (WT=0)

Ponds (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Reservoirs (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Rivers (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Shorelines (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

Spot Elevations (AC=ZSPOT) (TX=5.0, 10.0) (CO=0) (WT=0)

Streams (LC=FLOW LINE-E) (CO=5, LT. BLUE) (WT=0) **(DTM)**

LEVEL 7

Building, Existing (LC=0) (CO=4, YELLOW) (WT=1) *__B__ (uilding), *__H__ (ouse), *__S__ (hed), etc.

Fence Line (LC=FENCE WOOD-E, FENCE CHAIN LINK-E, FENCE ROW OR WIRE-E) (WT=0)

Field Line (LC=CROP LINE-E) (CO=0) (WT=0) **(DTM)**

Foundation (LC=2) (CO=4, YELLOW) (WT=0)

Gas Filler Pipe (AC=GFP) (CO=0) (WT=0)

Gas Pump (AC=GASP) (CO=0) (WT=0)

Porch/Deck/Stairs (LC=0) (CO=0) (WT=0)

Propane / Fuel Tank (AC=PROP) (CO=0) (WT=0)

*** QUARRY**

Reference Post/Mile Marker (AC=RP) *** Reference Mile** # (CO=0) (WT=0)

Retaining Wall (LC=RETAINING WALL-E) (CO=0) (WT=0) **(DTM – Place break line at the bottom of wall)**

Free Standing Wall (LC=0) (CO=12) (WT=2)

Right Of Way Marker (AC=ROW) (CO=0) (WT=0)

Sign, Roadside or any other (AC= SIGN) (CO=0) (WT=0)

Center Pivot Irrigation (AC=PIVOT) (CO=0) (WT=0) – (See Exhibit A5)

Unknown (AC = UNK) (CO = 197) (WT=O)

NOTE: Desired information: Total length of arm, outer wheel track and distance to center, x, y coordinates of pivot point and well location, length of arm beyond outer

wheel & whether stationary or trailing. (Info. not available from the photos will need to be requested through the prelim survey supervisor.)

LEVEL 8

Billboard *** BB** (LC=0) (CO=0) (WT=2)

Concrete Barrier (LC=0) (CO=228) (WT=0)

Concrete Slab (Including Patios) (LC=0) (CO=196) (WT=0) **(DTM)**

Driveway (Asphalt) (LC=O) (CO=201) (WT=O) **(DTM)**

Driveway (Gravel) (LC=3) (CO=70) (WT=0) **(DTM)**

Driveway (Surfaced) (LC=0) (CO=48) ((WT=0) **(DTM)**

Flagpole (AC=FP) (CO=0) (WT=0)

Mailbox (AC=MB) (CO=0) (WT=0)

Oil Well (AC=OIL) (CO=0) (WT=0)

Satellite Dish (AC=SAT) (CO=0) (WT=0)

Sidewalk (LC=0) (CO=212) (WT=0) **(DTM)**

Windmill (AC=WM) (CO=0) (WT=0)

LEVEL 9

Fire Hydrant, Existing (AC=HYD) (CO=5, LT. BLUE) (WT=0)

Municipal Well, Existing (AC=WELL) (CO=5, LT. BLUE) (WT=0)

Water Line, Buried, Surveyed (LC=WATER LINE-E) (CO=5, LT. BLUE) (WT=0)

Water Meter (AC=WATM) (CO=5, LT. BLUE) (WT=0)

Water Valve (AC=WATV) (CO=5, LT. BLUE) (WT=0)

Irrigation Well (AC=WELL) (CO=5, LT. BLUE) (WT=0)

LEVEL 10

Gas Line, Buried, Surveyed (LC=GAS LINE-E) (CO=2, GREEN) (WT=0)

Gas Meter (AC=GASM) (CO=2, GREEN) (WT=0)

Gas Valve (AC=GASV) (CO=2, GREEN) (WT=0)

Gas Vent (AC=GASVE) (CO=2, GREEN) (WT=0)

Regulator Station, Existing

LEVEL 11

Television Box (AC=TVB) (CO= 6, ORANGE) (WT=0)

Television Cable Line Buried, Surveyed (LC=TELEVISION-E) (CO=6,ORANGE) (WT=0)

Television Fiber Optic Line (LC=TELEVISION FIBER OPTIC-E)CO=6,ORANGE)(WT=0)

Television Overhead Line (LC=TELEVISION OVERHEAD-E) (CO=6, ORANGE) (WT=0)

Telephone Box (AC=TBOX) (CO=6, ORANGE) (WT=0)

Telephone Line FO Box (AC=TLFB) (CO=6, ORANGE) (WT=O)

Telephone Pole (AC=TP) (CO=6, ORANGE) (WT=0)

Telephone Pull Box (AC=TPB) (CO=6, ORANGE) (WT=0)

Telephone Fiber Optic Line (LC=TELEPHONE FIBER OP-E) (CO=6, ORANGE) (WT=0)

Telephone Line, Buried, Surveyed (LC=TELEPHONE LINE-E) (CO=6,ORANGE)(WT=0)

Telephone Overhead Line (LC=TELEPHONE OVERHEAD-E) (CO=6, ORANGE)(WT=0)

LEVEL 12

Guy Anchor (AC=GA) (CO=9, PINK) (WT=0)

Guy Pole (AC=GUYP) (CO=9, PINK) (WT=0)

Power Box (AC=PBOX) (CO=9, PINK) (WT=0)

Power Pole, Existing (AC=PP) (CO=9, PINK) (WT=0)

Power Pole W/Mast Arm (AC=PMA) (CO=9, PINK) (CO=4, YELLOW) (WT=0)

Power Pull Box (AC=PPB) (CO=9, PINK) (WT=0)

Power Line, Buried, Surveyed (LC=POWER LINE-E) (CO=9, PINK) (WT=0)

Power Overhead Line (LC=POWER OVERHEAD-E) (CO=9, PINK) (WT=0)

Power Substation *** SUBSTATION**

Transmission Tower (LC=0) (CO=9) (WT=0)

LEVEL 13

Concrete Inlet, Existing (CO=0) (WT=0) **(DTM - Place Random Spot in the middle of inlet)**

Grate Inlet, Existing) (AC=CG) (CO=0) (WT=0) (Use Pull Down Menu)
(DTM - Place Random Point in the middle of inlet)

Manholes, Existing (AC=MH) (CO=5, LT.BLUE) (WT=0)

Metal Inlet, Existing (CO=0) (WT=0) (Use Pull Down Menu) **(DTM - Place Random Spot in the middle of inlet)**

Sanitary Sewer, Surveyed (LC=SANITARY SEWER-E) (CO=5, LT. BLUE) (WT=0)

Storm Sewer, Surveyed (LC=STORM SEWER-E) (CO=5, LT.BLUE) (WT=0)

Septic Vent (AC=SV) (CO=5, LT. BLUE) (WT=0)

LEVEL 14

Advanced Railroad Warning Sign (AC=RRWS) (CO=67, RED) (WT=1)

Railroad Warning Light (AC=RRW) (CO=67, RED) (WT=1)

Railroad Line *** R.R. NAME** (LC=RAILROAD-E) (CO=67, RED) (WT=0)

LEVEL 15

Bridge or Viaduct (LC=0) (CO=3) (WT=1) (Structure Starts at Abutment)

Back Curbs, Existing (LC=0) (CO=16) (WT=0) **(DTM)**

Gutter Line (Front Curbs), Existing (LC=0) (CO=48) (WT=0) **(DTM)**

Edge of Gravel Roads, Existing (LC=3) (CO=70) (WT=0) **(DTM)**

Edge of Concrete Shoulder, Existing (LC=0) (CO=32) (WT=0) **(DTM)**

Edge of Concrete Surfaced Roads, Existing (LC=0) (CO=16) (WT=0) **(DTM)**

Edge of Asphalt Shoulders, Existing (LC=0) (CO=185) (WT=0) **(DTM)**

Edge of Asphalt Surfaced Roads, Existing (LC=0) (CO=201) (WT=0) **(DTM)**

Field Entrances – Trail (LC=2) (CO=1) (WT=0) **(DTM)**

2002 NDOR ROADWAY DESIGN-E In House: **Element >Cells>file>attach> I:\data\cell\m1route.cell**
Fed. Hwy. (AC=HWF) Interstate (AC=HWI) State Hwy. (AC=HWS)

LEVEL 16
Light Pole Mast Arm (AC=LPM) (CO=4, YELLOW) (WT=0)

Light Pole, Yard Light, Existing (AC=LP) (CO=4, YELLOW) (WT=0)

Traffic Signal Box (AC=TFSB) (CO=4, YELLOW) (WT=0)

Traffic Signal, Existing (AC=TFS) (CO=4, YELLOW) (WT=0)

Traffic Signal Street Light (AC=TFSL) (CO=4, YELLOW) (WT=0)

Traffic Signal W/Mast Arm (AC=TFSMA) (CO=4, YELLOW) (WT=0)

LEVEL 17
Everything to Do With Existing Centerline

Existing Centerline Azimuth

Center of Drive (CO=4) (WT=1)

PI'S (AC=PI) (CO=4, YELLOW)

Tangent Line (LC=3)

Stationing TX=6.0, 12.0 PI Data TX=5.0,10.0

LEVEL 18
PI'S (AC=PI) (CO=4, YELLOW)

Surveyed Centerline(s) (CO=4, YELLOW) (WT=2)

Surveyed Centerline Azimuth(s)

Tangent Line (LC=3)

Stationing TX=6.0, 12.0 PI Data TX=5.0,10.0

NOTE: Levels 19, 20, 21, 22 & 23 are for utilities that are taken from sources OTHER THAN the photogrammetric or field survey, (i.e., utility company Blu Line Prints, etc.). TEXT for these levels should be put on the LEVEL(S) shown below. Cells should be placed RELATIVE.

LEVEL 19 (Any assumed coordinates)
Sanitary Sewer (LC=SANITARY SEWER-E) (CO=4, YELLOW) (WT=0)

Storm Sewer (LC=STORM SEWER-E) (CO=4, YELLOW) (WT=0)

LEVEL 20 (Any assumed coordinates)
Water Line, Buried (LC=WATER LINE-E) (CO=5, LT. BLUE) (WT=0)

LEVEL 21 (Any assumed coordinates)
Gas Line, Buried (LC=GAS LINE-E) (CO=2, GREEN) (WT=0)

LEVEL 22 (Any assumed coordinates)
Television Cable Line, Buried (LC=TELEVISION-E) (CO=6, ORANGE) (WT=0)

Telephone Line, Buried (LC=TELEPHONE LINE-E) (CO=6, ORANGE) (WT=0)

Telephone Fiber Optic Line, Buried (LC=TELEPHONE FIBER OP-E) (CO=6,ORANGE) (WT=0)

LEVEL 23 (Any assumed coordinates)
Power Line, Buried or other. (Use Pull Down Menu)

LEVEL 24
Ditch Liner, Existing (LC=0) (CO=48) (WT=0) **(DTM)**

Culvert, Existing (LC=Custom To Size Of Pipe) (CO=1) (WT=0)

NOTE: Culvert notes shall be placed just outside of the mapping limits, perpendicular to the baseline.

LEVEL 25
Guardrail Post, (AC=GP) (CO=1) (WT=0)

Guardrail Railing (LC=GUARDRAIL-E) (CO=1) (WT=1) **(AS=1 URBAN & RURAL)**

Impact Attenuator, Existing (No Cell for This, Draw as Seen).

LEVEL 26 – Not Used
LEVEL 27 – Not Used
LEVEL 28 – Not Used
LEVEL 29 – Not Used
LEVEL 30 – Not Used

LEVEL 31 – Text for Level 1
Horizontal Control Points Field I.D.# (TX=6.0, 12.0) (CO=0) (WT=0)

Bench Marks Field I.D.# (TX=6.0, 12.0) (CO=0) (WT=0)

LEVEL 32 – Text for Level 2
(TX=5.0, 10.0) (WT=0) (CO=0) HORIZONTAL CONTROL POINTS ECC

(TX=5.0, 10.0) (WT=0) (CO=6) FIELD I.D.#

(TX=5.0, 10.0) (WT=0) (CO=6) ANALYTICAL CODE #

(TX=5.0, 10.0) (WT=0) (CO=10, ORANGE) FLIGHT & PHOTO # (Example: 8651-01)

LEVEL 33 – Text for Level 3
(TX=6.0, 12.0) (CO=66, GREEN) (WT=1)

Placed Outside of Mapping Limits (Example: **SEC. 6-T3N-R6W)**

(TX=7.0, 14.0) (CO=66) (WT=2) STATE, COUNTY NAMES

(TX=9.0, 18.0) (CO=66) (WT=2) CITY NAMES

LEVEL 34 – Not Used

LEVEL 35 – Text for Level 5 (TX=5.0, 10.0) (CO=2) (WT=1)

LEVEL 36 – Text for Level 6 (TX=6.0, 12.0) (CO=5) (WT=1) ***STREAM AND RIVER NAME**
(NOT SPOT ELEVATIONS)

LEVEL 37 – Text for Level 7 (TX=5.0, 10.0) (CO=0) (WT=1)

LEVEL 38 – Text for Level 8 (TX=5.0, 10.0) (CO=0) (WT=1)

LEVEL 39 – Text for Level 9 (TX=5.0, 10.0) (CO=5) (WT=1)

LEVEL 40 – Text for Level 10 (TX=5.0, 10.0) (CO=2) (WT=1)

LEVEL 41 – Text for Level 11 (TX=5.0, 10.0) (CO=6) (WT=1)

LEVEL 42 – Text for Level 12 (TX=5.0, 10.0) (CO=9) (WT=1)

LEVEL 43 – Text for Level 13 (TX=5.0, 10.0) (CO=5) (WT=1)

LEVEL 44 – Text for Level 14 (TX=6.0, 12.0) (CO=67) (WT=2) ***R.R. NAME**

LEVEL 45 – Text for Level 15 (TX=6.0 12.0) (CO=0) (WT=2) ***STREET, ROAD AND HWYS**

LEVEL 46 – Text for Level 16 (TX=5.0, 10.0) (CO=4) (WT=1)

LEVEL 47 – Not Used

LEVEL 48 – Not Used

LEVEL 49 – Text for Level 19 (TX=5.0, 10.0) (CO=5) (WT=1)

LEVEL 50 – Text for Level 20 (TX=5.0, 10.0) (CO=5) (WT=1)

LEVEL 51 – Text for Level 21 (TX=5.0, 10.0) (CO=2) (WT=1)

LEVEL 52 – Text for Level 22 (TX=5.0, 10.0) (CO=6) (WT=1)

LEVEL 53 – Text for Level 23 (TX=5.0, 10.0) (CO=5) (WT=1)

LEVEL 54 – Text for Level 24 (TX=6.0, 12.0) (CO=1) (WT=1)
Example: **STA. 367+00.9 63' RT.**
18" X 126' CMCP

LEVEL 55 – Text for Level 25 (TX=5.0, 10.0) (CO=0) (WT=1)

LEVEL 56 – Not Used

LEVEL 57 – Obscured Areas/Voids (Brushes or wooded areas and gravel piles) (CO=2, Green) (WT=0)

LEVEL 58 – Random Spots (CO=69, Blue) (WT=3).

LEVEL 59 – Break Lines (CO=69, Blue) (WT=0) (LC=0)

LEVEL 60 – **PLANIMETRIC FILE** (AC=CODE) (TX=5.0, 10.0) (WT=0)
BORDER SHEETS – AS =. 5 (1:50) & AS = 1 (1:100)

Bench Marks (AC=SHTS) (TX=5.0, 10) (WT=0)

Control Point /P. I. / Curve Data (AC=SHTS) (TX=5.0, 10) (WT=0)

Control Point Ties (AC=SHTS) (TX=7.0, 14.0) (WT=1) CONTROL POINT NAME
(TX=5.0, 10) (WT=0) TIE DISCRIPTION AND DISTANCE
(TX=6.0, 12.0) (WT=1) OBJECT DISCRIPTION

Code Symbol (AC=CODE) (TX= 5.0, 10.0) (WT=0)

Circles for Tie Sheet (AC=TIEPIE)

LEVEL 61 – Not Used

LEVEL 62 – Not Used

LEVEL 63 – Not Used

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