ERDC/ITL TR-01-6
September 2001

The CADD/GIS Technology Center

for facilities, infrastructure, and environment

A/E/C CADD Standard

Main Text and Appendices A, B, and C

Appendix D

The A/E/C CADD Standard is compliant with Version 2.0 of the U.S. National CAD Standard.

The A/E/C CADD Standard contains supplemental materials and DoD specific requirements not addressed in the U.S. National CAD Standard.

Release 2.0

Approved For Public Release; Distribution Is Unlimited

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Published by U.S. Army Engineer Research and Development Center
3909 Halls Ferry Road, Vicksburg, MS 39180-6199

Appendix D
A/E/C CADD Symbology

This appendix provides the A/E/C CADD Symbology as follows:

General Drafting

Lines

DEMOLN – Demolition Line D1-3

Symbols

BREAK – Break Line Symbol D1-7
CNTLIN – Centerline Symbol D1-7
COLLIN – Column Line/
Grid Indicator D1-7
DBLARR – Double Arrow Terminator. D1-7
DTLIND – Detail Indicator D1-7
KEYIND – Detail Indicator D1-7
MAGNOR – Magnetic North Arrow D1-7
MATIND – Match Line Indicator D1-7
NORIND – North Indicator D1-7
NOTIND – Note Indicator D1-8
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S00010 – Scale 1 : 10 ..... D1-8
S0001B – Scale 1” = 1’-0”..... D1-8
S0001G – Scale 1” = 1’-0” D1-8
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S0003G – Scale 3” = 1’-0” D1-8
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S00100 – Scale 1 : 100 ..... D1-9
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S0012G – Scale 1/2” = 1’-0” D1-9
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S0014G – Scale 1/4” = 1’-0” D1-9
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Hazardous Materials

Lines

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AIRQST – Air Quality Monitoring Station..... D2-7
AIRSMP – Air Sample Location D2-7
BIOSMP – Biological Sample Location D2-7
EGDECN – Equipment Decontamination D2-7
EGONST – Onsite Command Post D2-7
EGSITE – Site Information Center D2-7
EGWASH – Washdown Water Tank.... D2-7
EHZMSA – Hazmat Storage Location.. D2-7
EHZMSB – Hazmat Storage Building .. D2-7
EHZMSR – Hazmat Storage Room D2-8
EHZMSV – Hazmat Storage Vault D2-8
EHZWSA – Hazwaste Storage Location D2-8
EHZWSB – Hazwaste Storage Building D2-8
EHZWSR – Hazwaste Storage Room ... D2-8
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EYEWAS – Emergency Eyewash..... D2-8
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LANGAS – Landfill Gas Monitor Probe D2-9
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FUELOR – Fuel Oil Return..... D3-5
FUELOS – Fuel Oil Supply..... D3-5
FUELOV – Fuel Oil Tank Vent..... D3-5
GUARD – Guardrail..... D3-5
INDXDC – Index Depth Contour D3-5
IWASTE – Industrial Waste D3-5
LIQPET – Liquid Petroleum Gas..... D3-5
MINRDC – Minor Depth Contour..... D3-6
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PROJBL – Project Boundary Line D3-6
PROPL – Property Line D3-6
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BCN3 – General Beacon..... D3-17
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HPPLSF – Semiflush Helipad Perimeter Light D3-29
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WAMETR – Water Meter..... D3-54
WAPLNT – Water Plant D3-54
WASOFT – Water Softener D3-54
WAVALT – Water Valve Vault D3-54
WEIR – Weir D3-55
WELL1 – Wellhead, Above Water D3-55
WELL3 – Wellhead, Above Water D3-55
WINDCN – Windcone..... D3-55
WITHYP – Port Hand Withy..... D3-55
WITHYS – Starboard Hand Withy D3-55
WRECK – Wreck, Not Dangerous D3-55
WRKDNG – Wreck, Danger Depth Unknown D3-55
WRKEXP – Wreck, Partly Exposed ... D3-55
XFRPLX – Existing Transformer PoleD3-56
XFRPMX – Existing Transformer PadD3-56

Geotechnical

Patterns

AGGLOM - Agglomerate or Flow Breccia..... D4-3
ANDES – Andesite D4-3
BASALT – Basalt D4-3
BRECCA – Breccia D4-3
CHALK – Chalk or Marl D4-3
CHERT – Chert D4-3
CLAYST – Claystone or Siltstone D4-3
CMPSHL – Compaction Shale D4-3
COAL – Coal D4-3
CONGLM – Conglomerate..... D4-4
CSHALE – Cemented Shale D4-4
CSJNT – Closely Spaced Joints D4-4
DIORIT – Diorite..... D4-4
DOLOM – Dolomite D4-4
GABBRO – Gabbro..... D4-4
GNEISS – Gneiss..... D4-4
GRANIT – Granite D4-4
GRAYWC – Graywacke..... D4-4
HFRACT – Highly Fractured..... D4-5
LIMEST – Limestone D4-5
MARBL1 – Marble..... D4-5
MSJNT – Moderately Spaced Joints D4-5
QUARTZ – Quartzite..... D4-5

RHYOLT – Rhyolite D4-5
SANDST – Sandstone D4-5
SCHIST – Schist D4-5
SHELL – Shells D4-5
SLATE – Slate D4-6
SOAPST – Soapstone or Serpentine D4-6
TUFF – Tuff or Tuff Breccia D4-6
USCS1 – USCS Soil Symbol D4-6
USCS10 – OL, Organic Clay or Silt, Low Liquid Limit D4-6
USCS11 – Pt, Peat D4-6
USCS12 – SC, Clayey Sand D4-6
USCS13 – SM, Silty Sand D4-6
USCS14 – SP, Poorly Graded Sand D4-6
USCS15 – SW, Well Graded Sand D4-7
USCS2 – CL, Lean Clay D4-7
USCS3 – GC, Clayey Gravel D4-7
USCS4 – GM, Silty Gravel D4-7
USCS5 – GP, Poorly Graded Gravel D4-7
USCS6 – GW, Well Graded Gravel D4-7
USCS7 – MH, Inorganic Silt, High Liquid Limit D4-7
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WOOD – Wood Symbol D4-8
WSJNT – Widely Spaced Joints D4-8
ZONECL – Zones of Core Loss D4-8

Symbols

ANCHOL – Angle Cored Hole (Arrow=Dir) D4-11
ANTICL – Anticline D4-11
BHHNUM – Backhoe Hole Number D4-11
BOLOGR – Boring Log Refusal D4-11
CCHNUM – Concrete Core Hole Number D4-11
CDRDSH – Consolidated-Drained Direct Shear D4-11
CONDRA – Consolidated Drained D4-11
CONSOL – Consolidation D4-11
CONTST – Consolidation Test D4-11
CONUDR – Consolidated Undrained D4-12
CPNHOL – Cone Penetrometer Hole D4-12
CUDRTT – Consolidated-Undrained Triaxial Test D4-12
DSCHOL – Drive Sampled (SPT) and Cored D4-12
DSHOL – Drive Sample (SPT) Hole D4-12
FBLCK1 – Fault Block Movement 1 ..... D4-12
FBLCK2 – Fault Block Movement 2 ..... D4-12
HAHNUM – Hand Auger Hole Number D4-12
HANGF1 – High Angle Fault 1 ..... D4-12
HANGF2 – High Angle Fault 2 ..... D4-13
HDHNUM – Hand Dug Hole Number D4-13
HEXAGN – Hexagon Symbol D4-13
HOLNUM – Hole Number, Elevation, Offset D4-13
HRZBED – Horizontal Beds D4-13
MOISTC – Moisture Content D4-13
NSAHOL – Nonsampled Area of Hole D4-13
OBSHOL – Piezometer or Observation Hole D4-13
OPBLOG – Open Boring Log D4-13
PAHNUM – Power Auger Hole Number D4-14
PIEZOM – Piezometer D4-14
PROPEX – Proposed Exploration D4-14
PTHNUM – Perc Test Hole Number D4-14
RDHNUM – Rotary Drill Hole Number D4-14
RSLASH – Refusal Slashes D4-14
SAMPLE – Sample D4-14
SDIJNT – Strike Dip of Inclined Joint D4-14
SQUARE – Square Symbol D4-14
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STRKVJ – Strike of Vertical Joint D4-15
STRKVP – Strike w/Vertical Dip D4-15
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TSTHOL – Test Hole Symbol D4-15
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UCONUT Unconsolidated-Undrained Triaxial Test D4-15
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ULIMIT – Unsatisfactory Limit D4-16
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VHNUM – Vibracore Hole Number D4-16
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WBHNUM – Wash Boring Hole

Number.....D4-16
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Civil

Lines

BARDIT – Ditch Barrier.....D5-3
BARDTB – Ditch and Berm Barrier.....D5-3
BARGEN – Generic Security Barrier ...D5-3
BARMAS – Security Masonry Barrier .D5-3
CONLMT – Construction Limit D5-3
CULVRT – Culvert Pipe.....D5-3
DITCH – Ditch Line D5-3
FENCE – Fence D5-3
FIRE – Fire Protection Water Supply ...D5-3
FUELOR – Fuel Oil Return.....D5-4
FUELOS – Fuel Oil Supply.....D5-4
FUELOV – Fuel Oil Tank Vent.....D5-4
GOVTKL – Government Taking Line..D5-4
GUARD – Guardrail.....D5-4
INDXDC – Index Depth Contour D5-4
IWASTE – Industrial Waste D5-4
LIQPET – Liquid Petroleum Gas.....D5-4
MINRDC – Minor Depth Contour.....D5-4
NONPOT – Nonpotable Water.....D5-5
NTGASN – Natural Gas Piping.....D5-5
NTGASX – Exist. Natural Gas Piping..D5-5
PROJBL – Project Boundary Line.....D5-5
PROPL – Property Line D5-5
RAILRD – Railroad.....D5-5
RTOFWY – Right of Way.....D5-5
SSWAF – Sanitary Sewer D5-5
SSWAFX – Existing Sanitary Sewer D5-5
STRAF – Storm Drain D5-6
STRAFX – Existing Storm Drain D5-6
TREEL – Tree Line D5-6
WATERL – Water Line.....D5-6
WATRX – Existing Water Line.....D5-6
WWFBRC – Welded Wire Fabric D5-6

Patterns

CONCST – Concrete, Stone D5-9
FILTBD – Filtration Bed D5-9
GRAVEL – Gravel D5-9
LSWAMP – Large Swamp D5-9
POROUS – Porous.....D5-9
RIPRAP – Riprap.....D5-9

Symbols

AIRFLD – Airfield Symbol D5-13
ARRPT – Parking Turn Arrow D5-13
ARRSD – Straight Direction Arrow ...D5-13
ARRST – Straight and Turn Arrow D5-13
BREAK – Break Line Symbol D5-13
BUOY – Buoy.....D5-13
CATBSN – Catch Basin D5-13
CATBSR – Round Catch Basin.....D5-13
CDHDR – Core Drill Hole Drilled D5-13
CDHUDR – Core Drill Hole UndrilledD5-14
CLNOUT – Cleanout.....D5-14
CNR90 – Corner Solid 90.....D5-14
CNRSF – Corner Solid Flat D5-14
CNTLIN – Centerline Symbol D5-14
COGRAV – Center of Gravity SymbolD5-14
CULVEE – Culvert End D5-14
DBLARR – Double Arrow TerminatorD5-14
DRLHOL – Drill Hole D5-14
FLARRL – Flow Arrow Left in 0 Pt...D5-15
FLARRR – Flow Arrow Right in 0 Pt.D5-15
FOMETR – Fuel Oil Meter.....D5-15
FOMHOL – Fuel Oil Manhole D5-15
FOVALT – Fuel Oil Vault.....D5-15
GREASE – Grease Trap D5-15
GRITCH – Grit Chamber.....D5-15
GSMETR – Gas Meter.....D5-15
GSPLNT – Gas Plant.....D5-15
GSRECR – Gas Receiver.....D5-16
GSTRAP – Gas Trap D5-16
GSVALT – Gas Valve Vault D5-16
HEADWL – Headwall.....D5-16
HNDCAP – Handicap Chair Symbol..D5-16
HORCPT – Horizontal Control Point .D5-16
HOVCPT – Horiz. Vert. Control PointD5-16
HUREYE – Hurricane Eye D5-16
HYDRNT – Hydrant.....D5-16
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IWMETR – Industrial Waste
Water Meter.....D5-17
IWMHOL – Industrial Waste
Water Manhole D5-17
JNBX – Junction Box D5-17
MONWEL – Monitoring Well.....D5-17
PHOCPT – Photo Control Point D5-17

PIINFO – PI Information D5-17
PIVALV – Post Indicator Valve D5-17
PMPSTA – Pump Station D5-17
RGVALV – Regulator Valve D5-18
RRSIGN – Rail Signal D5-18
RRSWTC – Rail Switch D5-18
SCNRH – Section Corner Hatched D5-18
SCNRO – Section Corner Open D5-18
SDMHOL – Storm Drainage Manhole D5-18
SHRUBC – Shrub, Coniferous D5-18
SHRUBD – Shrub, Deciduous D5-18
SIGN – Sign D5-18
SNMHOL – Sanitary Manhole D5-19
SNPVSL – Sanitary Pressure Vessel... D5-19
SNVALT – Sanitary Valve Vault D5-19
SPOTEL – Ground Spot Elevation D5-19
SPTANK – Septic Tank D5-19
STHWY – State Highway Symbol D5-19
STMPIT – Steam Pit D5-19
SWAMP – Swamp D5-19
TIDEG – Tide Gage D5-19
TIRETR – Tire Treddle D5-20
TNKBG – Tank, Below Ground D5-20
TNKHAG – Tank, Horizontal
Above Ground D5-20
TNKVAG – Tank, Vertical
Above Ground D5-20
TRACR – Traffic Arm w/Card Reader D5-20
TRAMS – Traffic Arm,
Mechanical Swing D5-20
TREEC – Tree, Coniferous D5-20
TREED – Tree, Deciduous D5-20
TREEG – Tree, Generic D5-20
USHWY – US Highway Symbol D5-21
VCDATA – Vertical Curve Data D5-21
VERCPT – Vertical Control Point D5-21
WAHHOL – Water Handhole D5-21
WAMETR – Water Meter D5-21
WAPLNT – Water Plant D5-21
WASOFT – Water Softener D5-21
WAVALT – Water Valve Vault D5-21

Landscape

Lines

FENCE – Fence Line D6-3
LAWNSP – Lawn Sprinkler Supply D6-3
TREEL – Tree Line D6-3

Symbols

SHRUBC – Shrub, Coniferous D6-7
SHRUBD – Shrub, Deciduous D6-7
TREEC – Tree, Coniferous D6-7
TREED – Tree, Deciduous D6-7
TREEG – Tree, Generic D6-7

Structural

Lines

BERM – Berm D7-3
CMP127 – CMP 127 mm x 25 mm D7-3
CMP152 – CMP 152 mm x 51 mm D7-3
CMP38 – CMP 38 mm x 6 mm D7-3
CMP51 – CMP 51 mm x 13 mm D7-3
CMP68 – CMP 68 mm x 13 mm D7-3
CMP76 – CMP 76 mm x 25 mm D7-3
DECKCR – Corrugated Metal Deck D7-3
DECKFL – Metal Floor Deck D7-3
DECKRF – Metal Roof Deck D7-4
GROUND – Ground D7-4
INTRLK – Interlocking Steel Members D7-4
PS31 – PS31 Sheet Pile D7-4
PS31H – PS31 Sheet Pile Hidden D7-4
PSA23 – PSA23 Sheet Pile D7-4
PSA23H – PSA23 Sheet Pile Hidden ... D7-4
PZ22 – PZ22 Sheet Pile D7-4
PZ22H – PZ22 Sheet Pile Hidden D7-4
PZ27 – PZ27 Sheet Pile D7-5
PZ27H – PZ27H Sheet Pile Hidden D7-5
PZ35 – PZ35 Sheet Pile D7-5
PZ35H – PZ35 Sheet Pile Hidden D7-5
PZ40 – PZ40 Sheet Pile D7-5
PZ40H – PZ40 Sheet Pile Hidden D7-5
REBR12 – Rebar at 12 Inch D7-5
REBR18 – Rebar at 18 Inch D7-5
REBR6 – Rebar at 6 Inch D7-5

REBR9 – Rebar at 9 Inch.....D7-6
RIPPLN – Riprap Plan View D7-6
ROCK – Rock.....D7-6
SHORLN – Shore Line.....D7-6
WWFBRC – Welded Wire Fabric D7-6

Objects

4FRB – 4" Flat Ribbed Waterstop D7-9
6FRBHD – 6" Flat Ribbed Waterstop, Heavy Duty.....D7-9
6FRBLW – 6" Flat Ribbed Waterstop, Light Weight.....D7-9
6RCBHD – 6"Ribbed Waterstop with Center Bulb, Heavy Duty D7-9
6RCBLW – 6" Ribbed Waterstop with Center Bulb, Light Weight D7-9
9FLBHD – 9" Flat Ribbed Waterstop Heavy Duty.....D7-9
9FRBLW – 9" Flat Ribbed Waterstop Light Weight.....D7-9
9RCBHD – 9" Ribbed Waterstop with Center Bulb, Heavy Duty D7-9
9RCBLW – 9" Ribbed Waterstop with Center Bulb, Light Weight D7-9
BOX – Box Pile D7-10
CMUFL – Fluted Concrete Block, 8 X 8 X 16.....D7-10
CMURIB – Ribbed Concrete Block, 8 X 8 X 16.....D7-10
CMUSF – Split Face Concrete Block, 8 X 8 X 16.....D7-10
CMUSTR – Structural Concrete Block, 8 X 8 X 16.....D7-10
PLZ23 – PLZ23 Sheet Piling.....D7-10
PLZ25 – PLZ25 Sheet Piling.....D7-10
PS27.5 – PS27.5 Sheet Pile D7-10
PS31 – PS31 Sheet Pile D7-10
PSA23 – PSA23 Sheet Pile.....D7-11
PZ22 – PZ22 Sheet Pile D7-11
PZ27 – PZ27 Sheet Pile D7-11
PZ35 – PZ35 Sheet Pile D7-11
PZ40 – PZ40 Sheet Pile D7-11
RC230 – RC230 Sheet Pile ConnectionD7-11
RC231 – RC231 Sheet Pile ConnectionD7-11
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ZC271 – PZ22 PZ27 L Connection D7-11
ZC272 – PZ22 PZ27 L Connection D7-12
ZC273 – PZ22 PZ27 L Connection D7-12
ZC274 – PZ22 PZ27 L Connection D7-12
ZC275 – PZ22 PZ27 L Connection D7-12
ZC276 – PZ22 PZ27 L Connection D7-12
ZC277 – PZ22 PZ27 L Connection D7-12
ZC278 – PZ22 PZ27 L Connection D7-12
ZC279 – PZ22 PZ27 L Connection D7-12
ZC350 – PZ35 PZ40 L Connection D7-12
ZC351 – PZ35 PZ40 L Connection D7-13
ZC352 – PZ35 PZ40 L Connection D7-13
ZC353 – PZ35 PZ40 L Connection D7-13
ZC354 – PZ35 PZ40 L Connection D7-13
ZC355 – PZ35 PZ40 L Connection D7-13
ZC356 – PZ35 PZ40 L Connection D7-13
ZC357 – PZ35 PZ40 L Connection D7-13
ZC358 – PZ35 PZ40 L Connection D7-13
ZC359 – PZ35 PZ40 L Connection D7-13
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ZT271 – PZ22 PZ27 T Connection.....D7-14
ZT350 – PZ35 PZ40 T Connection.....D7-14
ZT351 – PZ35 PZ40 T Connection.....D7-14
ZX270 – PZ22 PZ27 Cross ConnectionD7-14
ZX350 – PZ35 PZ40 Cross ConnectionD7-14

Patterns

CONCST – Concrete, Stone D7-17
EEARTH – Existing Earth.....D7-17
GRAVEL – Gravel D7-17

Symbols

ANBOLT – Anchor Bolt.....D7-21
CNTLIN – Centerline Symbol D7-21
COLLIN – Column Line/Grid IndicatorD7-21
JSTBR1 – Joist Bar, Single Line.....D7-21
JSTBR2 – Joist Bar, Single Line.....D7-21
PLATE – Plate Symbol.....D7-21

Architectural

Lines

INBATT – Loose Fill Batt. Insulation ..D8-3
WWFBRC – Welded Wire Fabric D8-3

Objects

BRKGL – Glazed Brick D8-7
CMU – Masonry Unit D8-7
CMUBLK – Concrete Block, 8X8X16 . D8-7
CMUCOR – Concrete Block, 8X8X16 Corner D8-7
CMUEND – Concrete Block, 8X8X16 End..... D8-7
CMUGL – Glazed Concrete Block D8-7
CMUSTR – Concrete Block, 8X8X16 Str. D8-7
DOR18L – Left Door, 180 Degree Swing..... D8-7
DOR18R – Right Door, 180 Degree Swing..... D8-7
DORBFL – Left Bifold Door D8-8
DORBFR – Right Bifold Door D8-8
DORCPV – Door Center Pivot D8-8
DORCYL – Cylindrical Door D8-8
DORDBL – Left Double Door..... D8-8
DORDBR – Right Double Door D8-8
DORDEL – Left Double Egress Door .. D8-8
DORDER – Right Double Egress Door D8-8
DORFSL – Left Single Full Swing Door..... D8-8
DORFSR – Right Single Full Swing Door..... D8-9
DOROVH – Overhead Door..... D8-9
DORPOC – Door Pocket D8-9
DORRUP – Roll Up Door D8-9
DORSHL – Left Single Hinged Door. .. D8-9
DORSHR – Right Single Hinged Door. D8-9
DORSLD – Sliding Door..... D8-9
DORSLS – Sliding Surface Door D8-9
DORSPL – Left Single Pivot Door D8-9
DORSPR – Right Single Pivot Door... D8-10
DORUDL – Left Uneven Double DoorD8-10
DORUDR – Right Uneven Dbl. Door D8-10
LINTEL – Concrete Beam Bond Lintel D8-10
WINAWN – Window Awning..... D8-10
WINBAY – Projected Bay Window ... D8-10
WINBOW – Projected Bow Window . D8-10
WINBOX – Projected Box Window ... D8-10
WINDCI – Window Double Casement Inward Open D8-10
WINDCO – Window Double Casement Outward Open..... D8-11
WINDH – Double Hung Window..... D8-11
WINFIX – Fixed 1 Foot Window D8-11
WINJAL – Jalousie Window D8-11
WINOSL – Sliding Window Left Operating Sash D8-11
WINOSR – Sliding Window Right Operating Sash D8-11
WINPIV – Pivot Window D8-11
WINSCL – Window Single Casement Left Jamb Hinge D8-11
WINSCR – Window Single Casement Right Jamb Hinge D8-11
WINSH – Single Hung Window..... D8-12

Patterns

ADOBE – Masonry/Adobe Rammed Earth D8-15
ALUMIN – Aluminum D8-15
ASHLER – Stone Ashler D8-15
BRASS – Bronze Brass..... D8-15
BRBLCO – Coursed Brick Block. D8-15
BRCOBD – Common Bond Brick..... D8-15
BRENBD – English Bond Brick..... D8-15
BRFLBD – Flemish Bond Brick..... D8-15
BRFLCB – Flemish Common Bond ... D8-15
BRKCF – Common/Face Brick D8-16
BRKELE – Brick Elevation D8-16
BRRNBD – Brick Running Bond..... D8-16
BRSTBD – Brick Stack Bond..... D8-16
CCBSS – Cast Concrete Block, Small Scale D8-16
CCELEV – Concrete Cement Elevation..... D8-16
CDTOP – Cementitious Deck & Topping D8-16
CMUBP – CMU Block..... D8-16
CMUELB – Elevation Block D8-16
CONBLK – Concrete Block D8-17
CONCCN – Concrete, Cinder..... D8-17
CONCLW – Concrete, Light Weight.. D8-17
CONCPR – Precast Cast-in-Place Concrete..... D8-17
CONCST – Concrete, Stone D8-17
CONPBS – Pumice Block Concrete, Small Scale D8-17
CSTIRN – Cast Iron..... D8-17

CSTSTN – Cast Stone D8-17
CTILSS – Ceramic Tile, Small Scale.. D8-17
CUTSTN – Cut Stone D8-18
EARTH – Compacted Fill Earthwork . D8-18
FIBFSF – Fibrous Fire Safing..... D8-18
GLASS – Structural Glass D8-18
GROUT – Grout D8-18
GRVCRE – Crushed Rock Earth Gravel D8-18
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GRVSCL – Sand Clay Gravel..... D8-18
GYPPPE – Gypsum Plaster Plan & Elevation..... D8-18
INSQLT – Large Scale Insulation Quilts D8-19
INSRIG – Rigid Insulation..... D8-19
INSSCM – Solid Cork Magnesia Insulation D8-19
MARBL2 – Marble Stone..... D8-19
RIPRAP – Riprap..... D8-19
ROCK – Rock Earthwork D8-19
RUBBLE – Stone Rubble D8-19
SAND – Sand D8-19
STEEL – Steel and other Metals. D8-19
STNSQR – Squared Stone D8-20
TCBCSS – Terra Cotta (Small Scale) Brick Cotta D8-20
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TCUSS – Terra Cotta (Small Scale) Unglazed..... D8-20
TERRZO – Terrazzo. D8-20
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TILESF – Structural Facing Tile..... D8-20

Symbols

ARCPBW – Architectural Particleboard Woodwork D8-23
ASBDLS – Large Scale Asbestos Board D8-23
ASBDSS – Small Scale Asbestos Board D8-23
BATHCO – Corner Bath D8-23
BATHEM – Emergency Bath D8-23
BATHFT – Foot Bath D8-23
BATHHA – Hydrotherapy Arm Bath . D8-23
BATHHH – Hydrotherapy Hubbard Bath D8-23
BATHHL – Hydrotherapy Leg Bath ... D8-23
BATHIF – Infant Bath D8-24
BATHIN – Institutional Bath..... D8-24
BATHRC – Recessed Bath D8-24
BATHRR – Roll Rim Bath D8-24
BATHSZ – Sitz Bath D8-24
BATHWP – Whirlpool Bath..... D8-24
BIDET – Watercloset Bidet D8-24
BRFACC – Brick Face on Common ... D8-24
BRFIRE – Fire Brick D8-24
BSSFLG – Bluestone / Slate / Soapstone / Flagging D8-25
CANWCT – Can Washer, Cabinet Type..... D8-25
CANWDT – Can Washer, Dish Type . D8-25
CARPET – Carpet and Pad..... D8-25
CPLANK – Concrete Plank D8-25
DFPROJ – Drinking Fountain, Projecting Type D8-25
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DOORID – Door Opening Identifier... D8-25
DSHWSH – Commercial Dishwasher D8-26
EQPMID – Equipment Identifier D8-26
FASTEN – Fastener..... D8-26
FLRRPL – Flooring, Resilient Plastic Laminate D8-26
FURCHH – Furring Channel Hat D8-26
FURCHN – Furring Channel D8-26
GLASLS – Large Scale Glass..... D8-26
GLASSS – Small Scale Glass D8-26
GLBLLS –Glass Block, Large Scale... D8-26
GLBLSS –Glass Block, Small Scale... D8-27
GLELEV – Glass Elevation D8-27
GPLANK – Gypsum Plank..... D8-27
GYPBLK – Gypsum Block..... D8-27
GYPPOM – Gypsum Plaster on Masonry..... D8-27
GYPPPB – Gypsum Plaster Particle Board D8-27
GYPSPP – Gypsum Solid Plaster Partition D8-27
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LAVBCK – Back Lavatory D8-28
LAVCOR – Corner Lavatory D8-28
LAVCOU – Lavatory in Counter D8-28
LAVDNT – Dental Lavatory D8-28
LAVHND – Handicapped Lavatory D8-29
LAVMDM – Med. Manicure Lavatory D8-29
LAVSLB – Slab Type Lavatory D8-29
MTLLPL – Metal Lath and Plaster D8-29
MTLSHT – Metal Sheet and all Metals (Small Scale) D8-29
ORISTB – Oriented Strand Board D8-29
PARTBD – Particleboard D8-29
PLASTC – Plastic Finishes D8-29
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PLYWSS – Small Scale Plywood D8-30
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SHWROG – Shower Overhead Gang . D8-31
SHWRPG – Shower Pedestal Gang D8-31
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SNKCWT – Circular Wash Type Sink D8-31
SNKDSP – Sink Disposer D8-31
SNKFRC – Flushing Rim Clinical Sink D8-32
SNKGEN – General Sink D8-32
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SNKLTR – Sink Laundry Tray D8-32
SNKSCW – Semi-Circular Wash Sink D8-32
SNKSLP – Slop-Type Sink D8-32
SNKSRV – Service Sink D8-32
SNKSSC – Surgeon Scrub Sink D8-32
STLCSS – Structural Clay Tile, Small Scale D8-33
SUSPNT – Suspension Tee D8-33
TC1FLS – Terra Cotta Glazed 1 Face (Large Scale) D8-33
TC2FSS – Terra Cotta Glazed 2 Faces (Small Scale) D8-33
TCHOLW – Hollow Terra Cotta D8-33
TCLS – Large Scale Terra Cotta D8-33
TCQLS – Terra Cotta Quarry D8-33
TCUGLS – Terra Cotta Unglazed (Large Scale) D8-33
TCVENR – Veneer Terra Cotta D8-33
THRSHD – Threshold D8-34
TILFSS – Small Scale Tile Facing D8-34
TILGSC – Glazed Structural Clay Tile Masonry D8-34
TILSFU – Tile Structural Floor Units . D8-34
TLACOU – Acoustical Tile Finishes .. D8-34
TLCRLS – Ceramic Tile Finish Large Scale D8-34
TRAY1L – Single Laundry Tray D8-34
TRAY2L – Double Laundry Trays D8-34
URNLCO – Corner Type Urinal D8-34
URNLPD – Pedestal Type Urinal D8-35
URNLST – Urinal Stall D8-35
URNLTR – Trough Type Urinal D8-35
URNLWH – Wall Hung Urinal D8-35
WALLID – Wall Type Identifier D8-35
WCELWH – Electric Wall Hung Water Cooler D8-35
WCFVFO – FV Flr Outlet Watercloset D8-35
WCFVWH – FV WH Watercloset D8-35
WCITNK – Integral Tank Watercloset D8-35
WCTANK – Tank Type Watercloset .. D8-36
WCWHTN – WH Tank Watercloset .. D8-36
WDFLBD – Wood Floor Board D8-36
WDFNOS – Wood Finish on Studs D8-36
WDFRAM – Continuous Wood Framing D8-36
WDSHSD – Wood Shingles Siding D8-36

WFINSH – Wood Finish.....D8-36
WINID – Window Identifier.....D8-36
WOODHB – Hardboard Wood.....D8-36
WSHRBP – Bedpan Washer.....D8-37
WTRPFF – Waterproofing Felt Flashing.....D8-37

Interiors

Objects

ABLLBD – Bulletin Board.....D9-3
ACOSTM – Costumer D9-3
ADDCAB – Double Door Cabinet D9-3
AEAS30 – Easel, 30W (Hidden) D9-3
AMAG15 – Magazine Rack, 15W X 3D D9-3
AMAGLT – Magnifying Light D9-3
APRJSC – Projection Screen, Ceiling-Mounted.....D9-3
ASTCAB – Storage Cabinet D9-3
D65CLR – Desk 65 Comp LR.....D9-3
D65CRR – Desk 65 Comp RR D9-4
D7230L – L.H. Single Pedestal Desk, 72W X 30D (2).....D9-4
D7230R – R.H. Single Pedestal Desk, 72W X 30D (2).....D9-4
DPFF – Desk, Double File Pedestal.....D9-4
DPFL – Desk, Left Pedestal.....D9-4
DPFR – Desk Return Pedestal File D9-4
DSC1 – Desk, Study Carrel, Single D9-4
ECGAME – Freestanding Computer Game D9-4
ECOMCN – Comsec Container.....D9-4
EDRYER – Dryer D9-5
EPINBL – Pinball Machine D9-5
EREFRG – Refrigerator.....D9-5
ETV – Television.....D9-5
EVEND – Vending Machine D9-5
EWASHM – Washing Machine.....D9-5
F4DL – Lateral File Cab-4 Drawer D9-5
FC3618 – Storage Cabinet, 36W X 18D D9-5
FE7422 –Equip. Shelving, 74W X 22D, Barracks.....D9-5
FV1833 – Vertical File, 18W X 33D....D9-6
GIDIR – Directory D9-6
GIIS1 – Identification Sign w/1 Slot.....D9-6
GIIS2 – Identification Sign w/2 Slots ...D9-6
GIPIC1 – Pictogram 1.....D9-6
GIPIC2 – Pictogram 2.....D9-6
GMAN – Man Symbol for Restroom Signage.....D9-6
GWOMAN – Woman Symbol for Restroom Signage.....D9-6
SDMGT – Management Chair w/Arms 24W X 22D D9-6
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SDTASK – Task Chair D9-7
SGANG – Gang Seating w/Table D9-7
SSOF37 – Sofa Chair, 37W X 34D D9-7
SSOF63 – 2 Cushion Sofa, 63W X 34D D9-7
SSOF82 – 3 Cushion Sofa, 82.5W X 34D D9-7
STAB24 – Chair Tablet Arm, 24W X 24D D9-7
T42SQ – Table, 42SQ w/ Armless Chairs D9-7
TMS30 – Mailsort Table 16 OH Slots 30W D9-7
TPOOL – Pool Table D9-8
TROUND – Round Table D9-8
W7230L – Workstation L Unit LR D9-8
W7230R – Workstation L Unit RR.....D9-8
WCPDSK – Desk, Computer.....D9-8
WFLIPR – Flipper Door Unit D9-8
WLIGHT – Workstation Light.....D9-8
WPED – Workstation Pedestal D9-8

Symbols

ACURTN – Curtain D9-11
APLANT – Artificial Plant D9-11
GHNDCP – Universal Handicap Symbol.....D9-11
GIID – Identification Sign.....D9-11
MFMATL – Furniture Material List ...D9-11
MFSCHD – Furniture Schedule.....D9-11
MFSYMB – Furniture Symbol D9-11
MNORTH – North Arrow.....D9-11
MRSCHD – Room Finish Schedule ...D9-11
MSSCHD – Signage Schedule.....D9-12

Fire Protection

Lines

FIRE – Fire Protection Water Supply . D10-3
MANSUC – Suction Main D10-3
SPRINK – Main Supply Sprinkler D10-3
STDCOM – Standpipe Combination .. D10-3
STDDRY – Dry Standpipe D10-3
STDWET – Wet Standpipe D10-3

Symbols

1DIR – Direction Arrow D10-7
ABORT – Abort Switch D10-7
ACCESS – Fire Department Access ... D10-7
AGSTCN – Agent Storage Container . D10-7
BELLFA – Bell (Gong) D10-7
BOILER – Boiler D10-7
CHIMNY – Chimney D10-7
CO2AA – CO2 Automatically Actuated Extinguishing System D10-7
CO2MA – CO2 Manually Actuated Extinguishing System D10-7
CONSFS – Freestanding Siamese Fire Department Connection D10-8
CONSIA – Siamese Fire Department Connection D10-8
CONSNG – Single Fire Department Connection D10-8
CPESR – Elevator Status/Recall D10-8
CPFAC – Fire Alarm Communicator .. D10-8
CPFCP – Fire Alarm Control Panel D10-8
CPFSA – Fire System Annunciator D10-8
CPFTR – Fire Alarm Transponder or Transmitter D10-8
CPHCP – Halon Control Panel D10-8
CPHVA – Control Panel for HVAC ... D10-9
DCATAA – All-Type Fire Extinguisher, Automatically Actuated. D10-9
DCATMA – All-Type Fire Extinguisher, Manually Actuated D10-9
DCEABC – Dry Chemical Extinguisher (ABC-Type) D10-9
DCEBC – Dry Chemical Extinguisher (BC-Type) D10-9
DCECO2 – CO2 Extinguisher D10-9
DCEHLN – Halon or Clean Agent Extinguisher D10-9
DCLGAA – Dry Chemical System Auto Act. (Liquid, Gas, Elec. Fires) D10-9
DCLGMA – Dry Chemical System Man Act. (Liquid, Gas, Elec. Fires) D10-9
DMPBAR – Barometric Damper D10-10
DMPFIR – Fire Damper D10-10
DMPFS – Fire/Smoke Damper D10-10
DMPSMK – Smoke Damper D10-10
DRHOLD – Door Holder D10-10
DTFLAM – Flame Detector D10-10
DTFLOW – Flow Detector/Switch ... D10-10
DTGAS – Gas Detector D10-10
DTLEVL – Level Detector/Switch ... D10-10
DTPRES – Pressure Detector/ Switch D10-11
DTTAMP – Tamper Detector D10-11
ELBP1L – 1-Lamp Emergency Light, Battery Powered D10-11
ELBP2L – 2-Lamp Emergency Light, Battery Powered D10-11
ELBP3L – 3-Lamp Emergency Light, Battery Powered D10-11
EPSTA – Emergency Phone Station . D10-11
ESCAPE – Fire Escape D10-11
EXFOAM – Foam Extinguisher D10-11
EXITCM – Ceiling Mounted Exit Sign Light D10-11
EXITLF – Exit Sign, Lighted Face ... D10-12
EXITWM – Wall Mounted Exit Sign Light D10-12
EXWATR – Water Extinguisher D10-12
FANDCT – Duct Fan D10-12
FANGEN – General Fan D10-12
FANWAL – Wall Fan D10-12
FDOR3 – 3-Hour Rated Fire Door in Wall D10-12
FDORL3 – Wall w/<3-Hour Rated Door D10-12
FPDRIV – Fire Pump w/Drives D10-12
FPFREE – Free Standing Test HeaderD10-13
FPTEST – Wall-Mtd. Test Header D10-13
FRR1HR – 1-Hour Fire Resistance Rating D10-13
FRR2HR – 2-Hour Fire Resistance Rating D10-13
FRR30 – 30 Minute Fire Resistance Rating D10-13

FRR3HR – 3-Hour Fire Resistance Rating D10-13
FRR45 – 45 Minute Fire Resistance Rating D10-13
FRR4HR – 4-Hour Fire Resistance Rating D10-13
FULLSS – Fully Sprinklered Space .. D10-13
HD – Heat Detector..... D10-14
HLNAA – Automatically Actuated Halon Extinguishing System D10-14
HLNMA – Manually Actuated Halon Extinguishing System D10-14
HOSECS – Hose Station, Charged Standpipe D10-14
HOSEDS – Hose Station, Dry Standpipe. D10-14
HRN1A – Horn w/Light, One Assembly D10-14
HRNMIN – Mini Horn D10-14
HRNSA – Horn w/Light, Separate Assembly..... D10-14
HRNSPK – Speaker/Horn (Electric Horn)..... D10-14
HYDPR1 – Private Hydrant, One-Hose Outlet..... D10-15
HYDPR2 – Private Housed Hydrant, Two-Hose Outlets..... D10-15
HYDPU2 – Public Hydrant, Two-Hose Outlets..... D10-15
HYDPUP – Public Hydrant, Two-Hose Outlets, Pumper Connection D10-15
HYDW2H – Wall Hydrant, Two-Hose Outlets..... D10-15
LITFAS – Light D10-15
MANSTA – Manual Station D10-15
METRFP – Meter D10-15
MNCHRG – Monitor Nozzle, Charged D10-15
MNDRY – Monitor Nozzle, Dry D10-16
NONSS – Non-Sprinklered Space D10-16
PARTSS – Partially Sprinklered Space D10-16
PURGE – Manual Purge Control..... D10-16
RISER – Riser..... D10-16
RSCO2 – CO2 Reel Station D10-16
RSDRYC – Dry Chemical Reel Station. D10-16
RSFOAM – Foam Reel Station..... D10-16
SD –Smoke Detector..... D10-16
SHGARD – Sprinkler Head w/Guard D10-17
SHNUU – Nippled Up Upright Sprinkler Head..... D10-17
SHOUT – Outside Sprinkler Head.... D10-17
SHPEND – Pendent Sprinkler Head . D10-17
SHPNDN – Pendent Sprinkler Head, on Drop Nipple..... D10-17
SHSIDE – Sidewall Sprinkler Head.. D10-17
SHUPRT – Upright Sprinkler Head.. D10-17
SMKBAR – Smoke Barrier D10-17
SSNOZZ – Special Spray Nozzle D10-17
THRUST – Thrust Block D10-18
TNKBG – Tank, Below Ground D10-18
TNKHAG – Tank, Horizontal Above Ground D10-18
TNKVAG – Tank, Vertical Above Ground D10-18
VLVCHA – Alarm Check Valve D10-18
VLVCHK – Check Valve D10-18
VLVDEL – Deluge Valve..... D10-18
VLVDRY – Dry Pipe Valve D10-18
VLVIBF – Indicating Butterfly Valve D10-18
VLVKEY – Key-Operated Valve D10-19
VLVNON – Nonindicating Valve (Nonrising Stem) D10-19
VLVOSY – OS&Y Valve..... D10-19
VLVPI – Post Indicator Valve D10-19
VLVPIT – Valve in Pit D10-19
VLVPRE – Preaction Valve..... D10-19
VLVQOD – Dry Pipe Valve, w/Quick Opening Device D10-19
VLVTDS – Valve w/ Tamper Detector/Switch D10-19
VNTOPN – Ventilation Openings D10-19
WALARM – Water Motor Alarm..... D10-20
WATRSS – Water Spray System..... D10-20
WBDSMA – Water-Based Dry System Manually Actuated D10-20
WBDSSA – Water-Based Dry System Automatically Actuated D10-20
WBFSAA – Water-Based Foam System Automatically Actuated D10-20
WBFSMA – Water-Based Foam System Manually Actuated D10-20
WBWSAA – Water-Based Wet System, Automatically Actuated D10-20
WBWSMA – Water-Based Wet System, Manually Actuated D10-20

Plumbing

Lines

CDRNAF – Condensate Drain.....D11-3
CLDWTR – Potable Cold Water D11-3
CMPAIR – Compressed Air D11-3
DIOWTR – Deionized Water.....D11-3
DSTWTR – Distilled Water.....D11-3
FIRE – Fire Protection Water Supply .D11-3
FUELOR – Fuel Oil Return.....D11-3
FUELOS – Fuel Oil Supply.....D11-3
FUELOV – Fuel Oil Tank Vent.....D11-3
HELIUM – Helium D11-4
HWTR – Potable Hot Water D11-4
HWTRR – Potable Hot Water Return.D11-4
HYDRGN – Hydrogen.....D11-4
ICWTR – Industrial Cold Water D11-4
IHWTRR – Industrial Hot Water Return D11-4
IHWTRS – Industrial Hot Water Supply.....D11-4
INDDRN – Indirect Drain.....D11-4
LIQNIT – Liquid Nitrogen.....D11-4
LIQOXY – Liquid Oxygen D11-5
LIQPET – Liquid Petroleum Gas.....D11-5
NITOXI – Nitrous Oxide D11-5
NITROG – Nitrogen D11-5
NONPOT – Nonpotable Water D11-5
NTGASN – Natural Gas Piping.....D11-5
OXYGEN – Oxygen D11-5
PNTUBE – Pneumatic Tube Runs.....D11-5
ROOFDN – Roof Drain D11-5
SFCWTR – Soft Cold Water D11-6
SHWTRR – Sanitizing Hot Water Return (180F) D11-6
SHWTRS – Sanitizing Hot Water Supply (180F).....D11-6
SSWAF – Sanitary Sewer D11-6
STRAF – Storm Drain D11-6
VACAIR – Vacuum Air D11-6
VENT – Vent.....D11-6
VENTWS – Vent and Waste Combination D11-6

Symbols

CAPSC – Cap D11-9
DRNFUN – Open Drain Funnel D11-9
EL45SC – 45 Degree Elbow.....D11-9
EL90SC – 90 Degree Elbow.....D11-9
ELBSC – Base Elbow.....D11-9
ELDBSC – Double Branch Elbow.....D11-9
ELLRSC – Long Radius Elbow.....D11-9
ELODSC – Side Outlet Elbow, Outlet Down D11-9
ELOUSC – Side Outlet Elbow, Outlet Up D11-9
ELSTRT – Street Elbow D11-10
ELTDSC – Turned Down Elbow.....D11-10
ELTUSC – Turned Up Elbow.....D11-10
FCO – Floor Cleanout.....D11-10
FDCO – Floor Drain with Cleanout..D11-10
FDDT – Floor Drain with Deep TrapD11-10
FDNT – Floor Drain with No Trap ...D11-10
FDTP – Floor Drain with Trap PrimeD11-10
FDWT – Floor Drain with Trap D11-10
FLBLND – Blind Flange D11-11
FLOW3 – Flow Arrow.....D11-11
FLRPEN – Iso. Floor Penetration D11-11
GAUGE – Gauge D11-11
HANGRD – Hanger Rod D11-11
HANGSP – Hanger Spring D11-11
ISOEWC – Isometric EWC.....D11-11
ISOLAV – Isometric Lavatories.....D11-11
ISOMOP – Isometric Mop Sink.....D11-11
ISOUR1 – Isometric Wall Mounted Urinals D11-12
ISOWC1 – Isometric Floor Mounted Water Closet D11-12
ISOWC2 – Isometric Wall Mounted Water Closet D11-12
LOOPL – Left Dimension Loop D11-12
LOOPR – Right Dimension Loop.....D11-12
PLGBFL – Bull Plug, Flanged.....D11-12
PLGPSC – Pipe Plug D11-12
PRGGCO – Pressure Gauge and CockD11-12
PUMP – Pump D11-12
PUMPP – Pump (Schematic).....D11-13
PUMPS – In-Line Pump D11-13
SLEEVE – Sleeve D11-13
STGLAS – Sight Glass D11-13
STRAIN – Strainer D11-13

STRBLO – Blow Off Strainer.....D11-13
TDSSC – Double Sweep Tee.....D11-13
THERM – Thermometer.....D11-13
TRAPST – Steam Trap.....D11-13
TSODSC – Tee, Side Outlet, Outlet Down.....D11-14
TSOUSC – Tee, Side Outlet, Outlet Up.....D11-14
TSSSC – Straight Size Tee.....D11-14
TSSWSC – Single Sweep Tee.....D11-14
UNIOSC – Union.....D11-14
VA3WAM – 3-Way Air Motor Controlled Valve.....D11-14
VA3WEM – 3-Way Electric Motor Controlled Valve.....D11-14
VA3WM – 3-Way Manual Valve.....D11-14
VAAHOS – Angle Hose Valve.....D11-14
VABALL – Ball Valve.....D11-15
VABFLY – Butterfly Valve.....D11-15
VACWR – Condenser Water Regulating Valve.....D11-15
VADISC – Diaphragm Valve.....D11-15
VAEMTR – Valve Actuator Electric Motor.....D11-15
VAESOL – Valve Actuator Electric Solenoid.....D11-15
VAGAMC – Air Motor Controlled Gate Valve.....D11-15
VAGLAM – Air Motor Controlled Globe Valve.....D11-15
VAGLE – Angle Globe Valve (Elevation).....D11-15
VAGLSE – Globe Valve.....D11-16
VAGSE – Angle Gate Valve, (Elevation).....D11-16
VAGSP – Angle Gate Valve (Plan)..D11-16
VAGTSE – Gate Valve.....D11-16
VAHASC – Hose Angle Valve.....D11-16
VAHGLS – Hose Globe Valve.....D11-16
VAHGSC – Hose Gate Valve.....D11-16
VALSSC – Lock Shield Valve.....D11-16
VAMAGS – Magnetic Stop Valve....D11-16
VAMNNS – Valve Actuator Manual Nonrising Stem.....D11-17
VAMOGS – Motor Operated Gate Valve.....D11-17
VAMOLS – Motor Operated Globe Valve.....D11-17
VAMOSY – Valve Actuator Manual Outside Stem & Yoke.....D11-17
VANEED – Needle Valve.....D11-17
VAPLUG – Plug Valve.....D11-17
VAPMTD – Valve Actuator Pneumatic Motor Diaphragm.....D11-17
VAPRED – Pressure Reducing ValveD11-17
VAPRRD – Pressure Reducing ValveD11-17
VAQOSC – Quick Opening Valve...D11-18
VARELF – Relief or Safety Valve....D11-18
VASCE – Angle Globe Valve (Elevation).....D11-18
VASCP – Angle Globe Valve (Plan) D11-18
VASFSC – Safety Valve.....D11-18
VASGCH – Swing Gate Check ValveD11-18
VASNAP – Snap Action Valve.....D11-18
VASOLN – Solenoid Valve.....D11-18
VASPCH – Spring Check Valve.....D11-18
VASTSC – Gate Elbow.....D11-19
VASWSC – Straight Way Check Valve.....D11-19
VATPR – Temperature Pressure Relief Valve.....D11-19
VLVCHK – Check Valve.....D11-19

Mechanical

Lines

ACIDWS – Acid Waste.....D12-3
AIRRLF – Atmospheric Vent.....D12-3
BOILBD – Boiler Blow Down.....D12-3
BRINER – Brine Return.....D12-3
BRINES – Brine Supply.....D12-3
CDRNAF – Condensate Drain.....D12-3
CMPAIR – Compressed Air.....D12-3
CONDP – Pumped Condensate.....D12-3
CONDWR – Condenser Water Return.D12-3
CONDWS – Condenser Water SupplyD12-4
CWR – Chilled Water Return.....D12-4
CWS – Chilled Water Supply.....D12-4
DTR – Dual Temperature Return.....D12-4
DTS – Dual Temperature Supply.....D12-4
FILL – Fill Line.....D12-4
GHR – Glycol Heating Return.....D12-4
GHS – Glycol Heating Supply.....D12-4
HPCNDR – High Pressure CondensateD12-4
HTHWR – High Temperature Hot Water Return.....D12-5

HTHWS – High Temperature Hot Water Supply D12-5
HUMID – Humidification Line D12-5
HWR – Low Temperature Hot Water Return D12-5
HWS – Low Temperature Hot Water Supply D12-5
ICWTR – Industrial Cold Water D12-5
IHWTRR – Indust. Hot Water Return D12-5
IHWTRS – Indust. Hot Water Supply. D12-5
IWASTE – Industrial Waste D12-5
LPCNDR – Low Pressure Condensate D12-6
MAKEUP – Make Up Water D12-6
MPCNDR – Medium Pressure Condensate D12-6
MTHWR – Medium Temperature Hot Water Return D12-6
MTHWS – Medium Temperature Hot Water Supply D12-6
NONPOT – Nonpotable Water D12-6
PNTUBE – Pneumatic Tube Runs D12-6
REFRL – Refrigerant Liquid D12-6
REFRS – Refrigerant Suction D12-6
STEAMH – High Pressure Steam D12-7
STEAML – Low Pressure Steam D12-7
STEAMM – Medium Pressure Steam. D12-7
TUVANE – Turning Vanes D12-7
VACAIR – Vacuum Air D12-7
VACPD – Vacuum Pump Discharge .. D12-7

Symbols

ACCDOR – Duct Access Door D12-11
AGUIDE – Alignment Guide D12-11
AIRELM – Air Eliminator D12-11
AIRIN – Air In D12-11
AIRSEP – Air Separator D12-11
ANCHRI – Anchor D12-11
AVENTA – Automatic Air Vent D12-11
AVENTM – Manual Air Vent D12-11
BALLJT – Ball Joint D12-11
BUSHSC – Bushing D12-12
CAPSC – Cap D12-12
CAPTUB – Capillary Tube D12-12
CDRND – Round Ceiling Diffuser ... D12-12
CDSQR – Square Ceiling Diffuser ... D12-12
CFM2X3 – Airflow CFM D12-12
CFM2X4 – Airflow CFM D12-12
CFM3X4 – Airflow CFM D12-12
COCKSC – Cock D12-12
CREDSC – Concentric Reducer D12-13
CRSRSC – Cross D12-13
CUPJNT – Coupling Joint D12-13
DCTHTR – Electric Duct Heater D12-13
DMPEOC – Electric Operated Damper Control D12-13
DMPFIR – Fire Damper D12-13
DMPFS – Fire Smoke Damper D12-13
DMPPOD – Pneumatic Damper D12-13
DMPSMK – Smoke Damper D12-13
DPRSD – Duct Pressure Class Down D12-14
DPRSH – Duct Pressure Class Horiz D12-14
DPRSL – Duct Pressure Class Left ... D12-14
DPRSR – Duct Pressure Class Right D12-14
DPRSU – Duct Pressure Class Up D12-14
DPRSV – Duct Pressure Class Vert .. D12-14
DRIER – Drier D12-14
EEQ2X2 – Electrical Equipment 2X2 Mark D12-14
EEQ2X3 – Electrical Equipment 2X3 Mark D12-14
EEQ2X4 – Electrical Equipment 2X4 Mark D12-15
EEQ3X2 – Electrical Equipment 3X2 Mark D12-15
EEQ3X3 – Electrical Equipment 3X3 Mark D12-15
EEQ3X4 – Electrical Equipment 3X4 Mark D12-15
EL45SC – 45 Degree Elbow D12-15
EL90SC – 90 Degree Elbow D12-15
ELBSC – Base Elbow D12-15
ELDBSC – Double Branch Elbow D12-15
ELLRSC – Long Radius Elbow D12-15
ELODSC – Side Outlet Elbow, Outlet Down D12-16
ELOUSC – Side Outlet Elbow, Outlet Up D12-16
ELSTRT – Street Elbow D12-16
ELTDSC – Turned Down Elbow D12-16
ELTUSC – Turned Up Elbow D12-16
EREDSC – Eccentric Reducer D12-16
EXPJNT – Expansion Joint D12-16
FANERV – Exhaust Roof Vent Fan . D12-16
FANLRV – Louvered Roof Vent Fan D12-16

FANSRV – Intake Roof Vent Fan D12-17
FLBLND – Blind Flange D12-17
FLOW1 – Air Flow Direction Arrow D12-17
FLRPEN – Iso. Floor Penetration D12-17
FLXCON – Flexible Connector D12-17
GAUGE – Gauge D12-17
GRILEX – Exhaust Grille D12-17
GRILSU – Supply Grille D12-17
HANGRD – Hanger Rod D12-17
HANGSP – Hanger Spring D12-18
HSENS – Humidity Sensor D12-18
HSTAT – Humidistat D12-18
LNDIFF – Linear Diffuser D12-18
LOOPL – Left Dimension Loop D12-18
LOOPR – Right Dimension Loop D12-18
LOUOPN – Door or Wall Louver Opening D12-18
PIDROP – Pitch or Pipe Drop D12-18
PIRISE – Pitch or Pipe Rise D12-18
PLGBFL – Bull Plug, Flanged D12-19
PLGPSC – Pipe Plug D12-19
PRGGCO – Pressure Gage and Cock D12-19
PSDIFF – Pump Suction Diffuser D12-19
PUMP – Pump D12-19
PUMPP – Pump (Schematic) D12-19
PUMPS – In-Line Pump D12-19
SCALET – Scale Trap D12-19
SLEEVE – Sleeve D12-19
STGLAS – Sight Glass D12-20
STRAIN – Strainer D12-20
STRBLO – Blow Off Strainer D12-20
SUPOUT – Supply Outlet (Wall Supply) D12-20
TDSSC – Double Sweep Tee D12-20
THERM – Thermometer D12-20
THERMW – Thermometer Well D12-20
THHRB – Thermostat, Remote Bulb D12-20
THHSC – Thermostat, Self Contained (HVAC) D12-20
THLPRS – Thermostat, Low PressureD12-21
THMCP – Thermostat, Microprocessor D12-21
THPELE – Thermostat, Electric D12-21
THPPNE – Thermostat, Pneumatic ... D12-21
TMPSEN – Temperature Sensor D12-21
TODSC – Tee, Outlet Down D12-21
TOUSC – Tee, Outlet Up D12-21
TRAPFL – Float Trap D12-21
TRAPFT – Float and Thermostatic Trap D12-21
TRAPST – Steam Trap D12-22
TRAPTB – Thermostatic Blast Trap D12-22
TSODSC – Tee, Side Outlet, Outlet Down D12-22
TSOUSC – Tee, Side Outlet, Outlet Up D12-22
TSSSC – Straight Size Tee D12-22
TSSWSC – Single Sweep Tee D12-22
UNIOSC – Union D12-22
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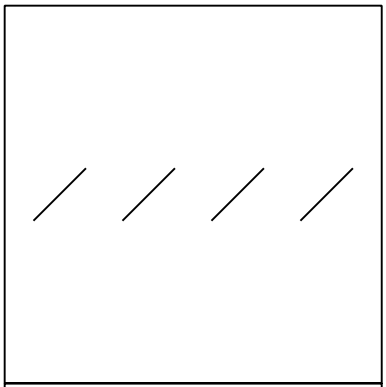
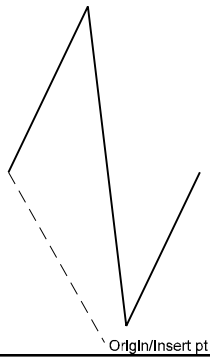
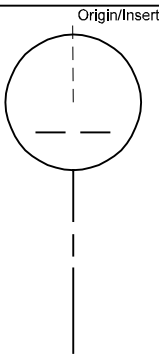
1 General Lines Library



General:DEMOLN
DEMOLITION LINE
Element type: Line

1 General Symbols Library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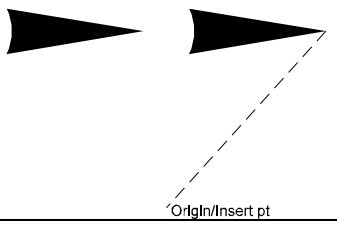	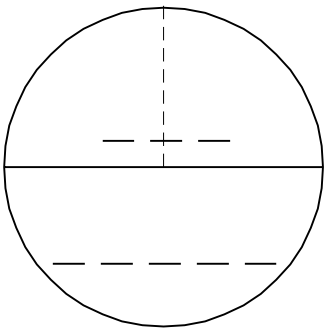	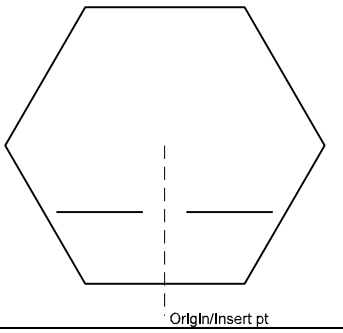
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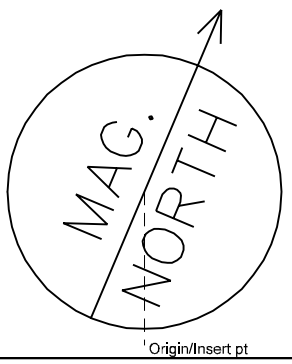	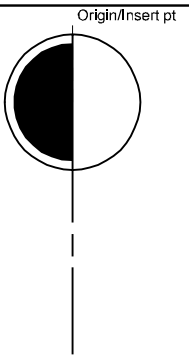	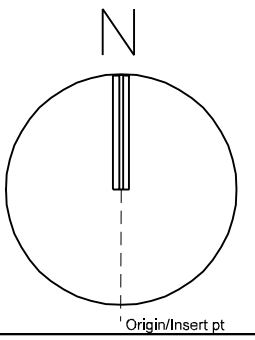
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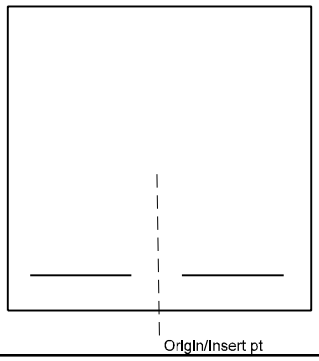	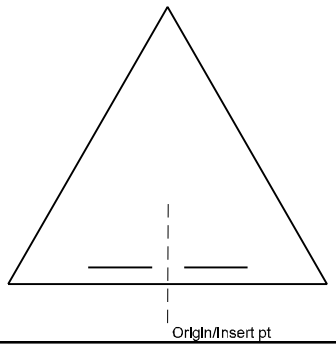	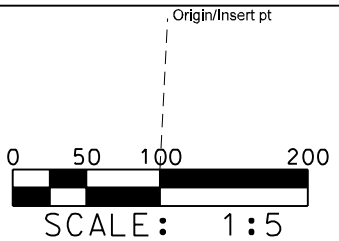
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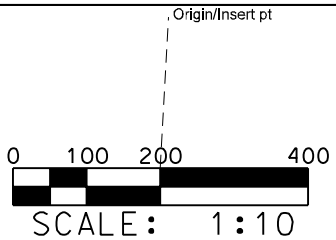	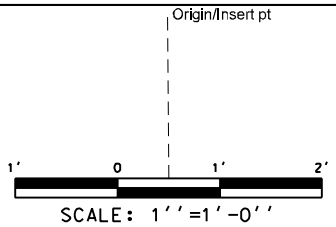	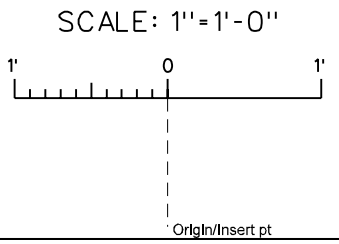
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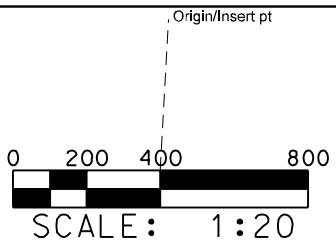	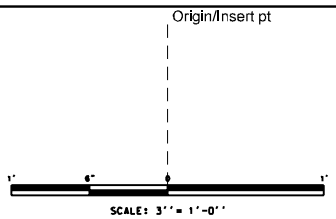	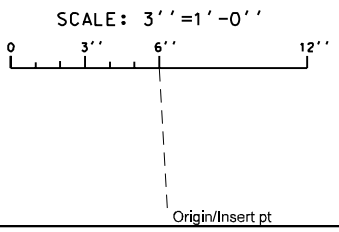
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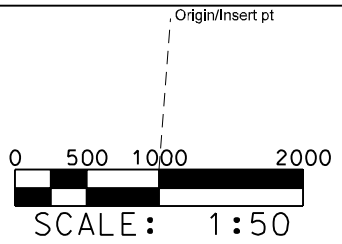	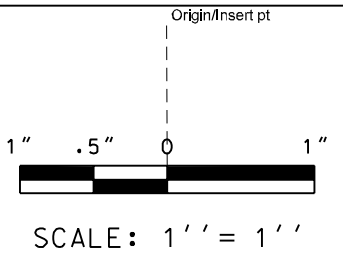	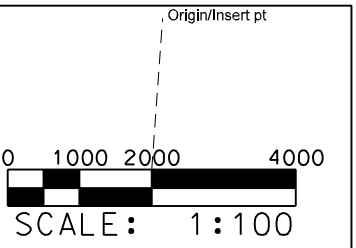
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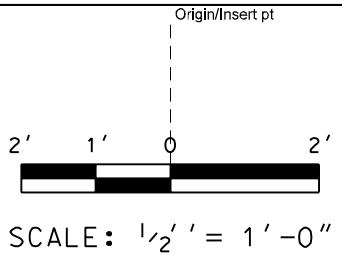	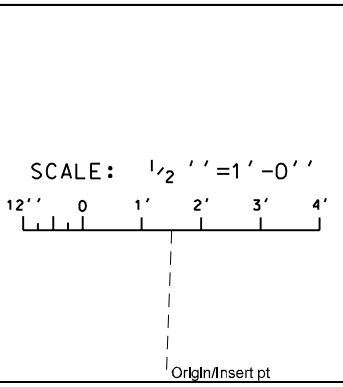	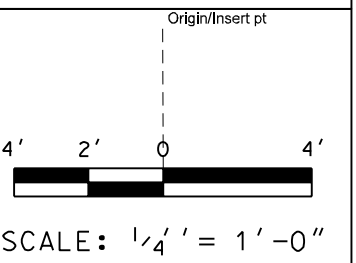
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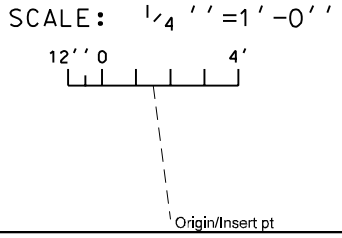	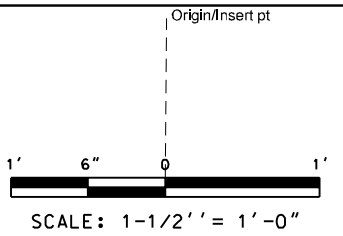	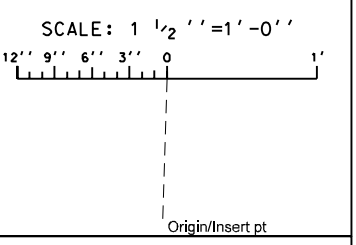
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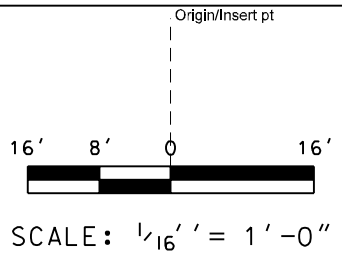
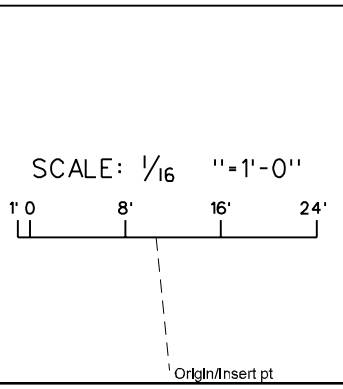
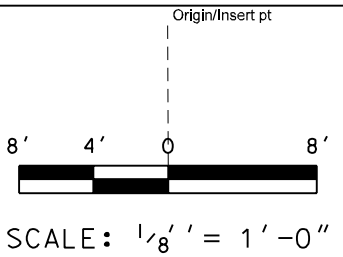
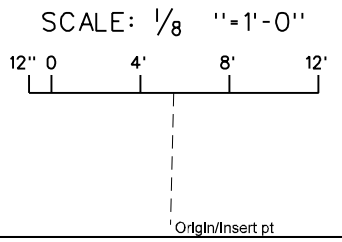
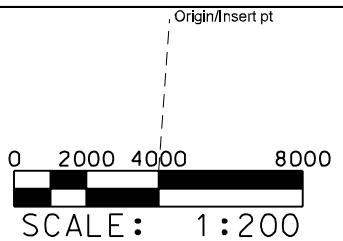
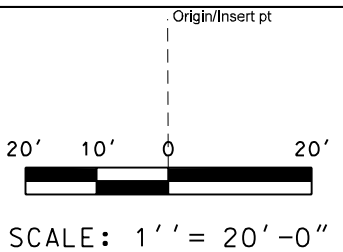
		
General:S0016B SCALE ONE 16TH IN EQ 1FT Element type: Symbol	General:S0016G SCALE ONE 16TH IN EQ 1FT Element type: Symbol	General:S0018B SCALE ONE 8TH IN EQ 1FT Element type: Symbol
		
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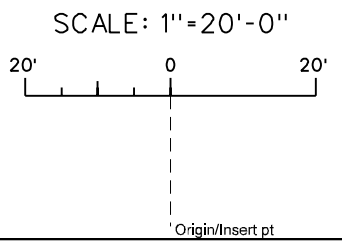	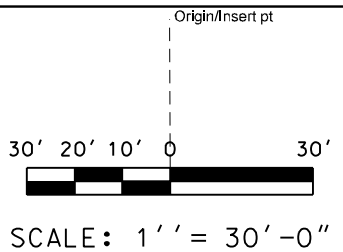	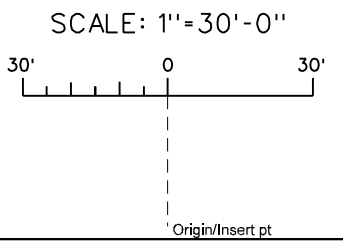
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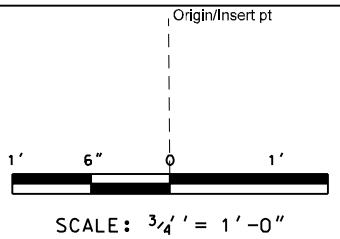	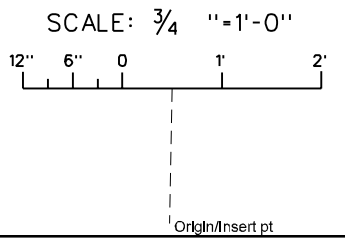	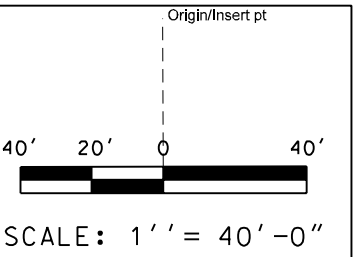
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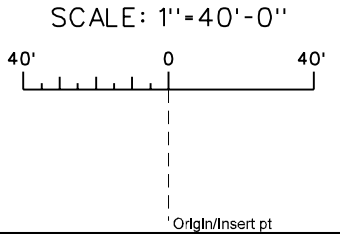	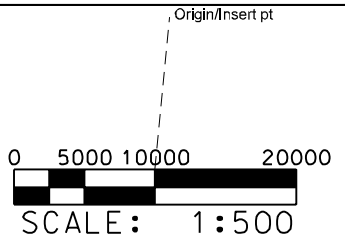	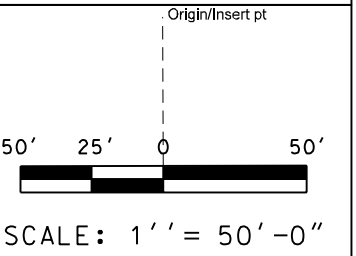
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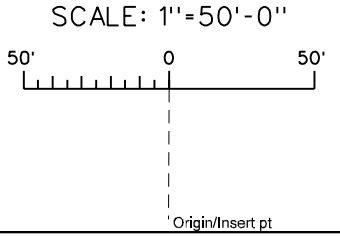	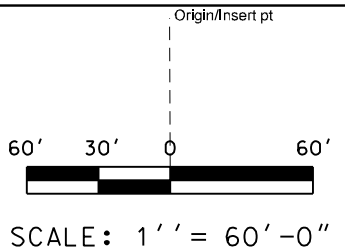	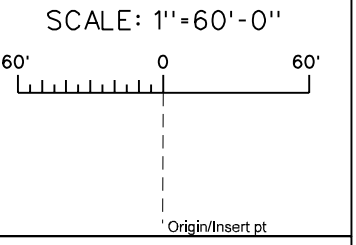
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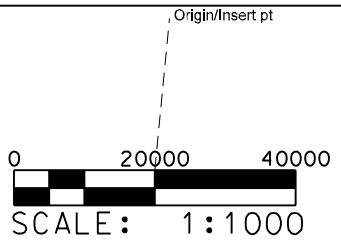	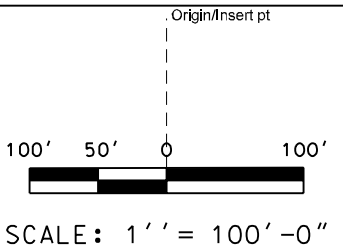	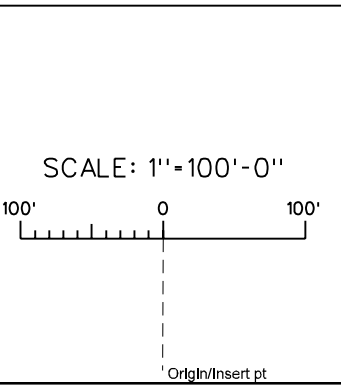
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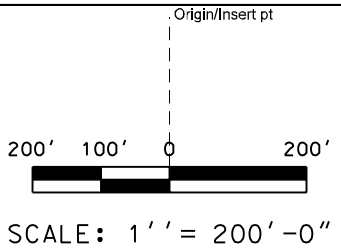	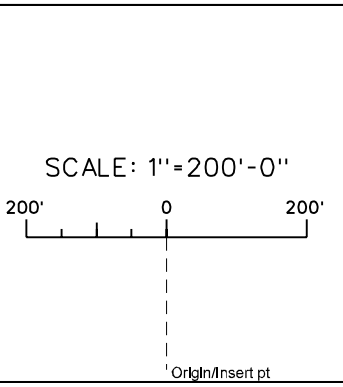	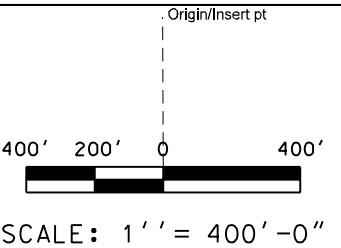
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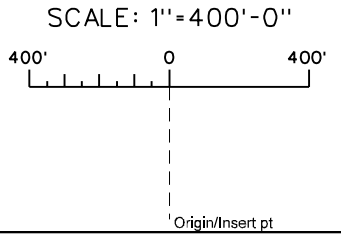	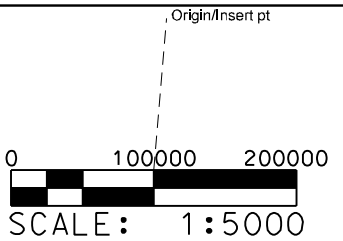	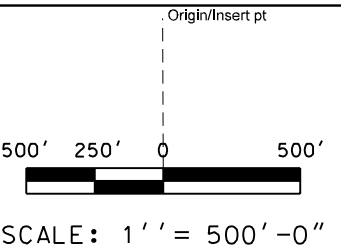
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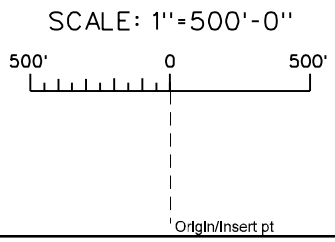	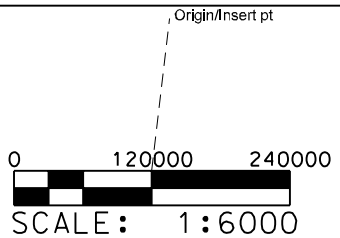	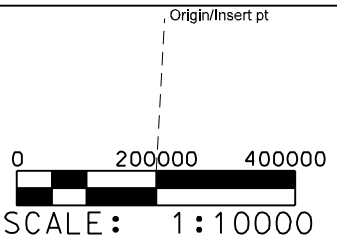
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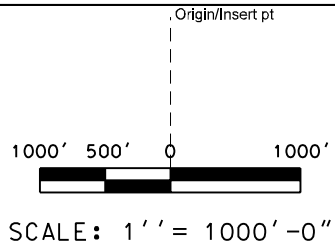	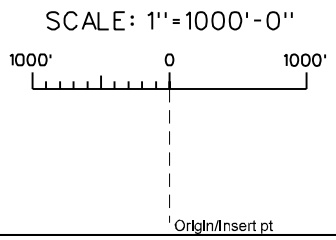	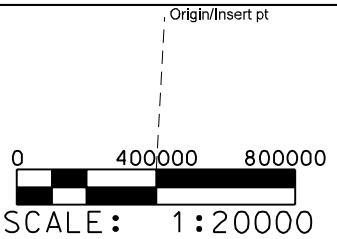
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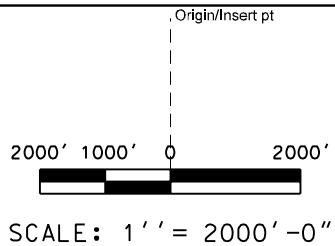	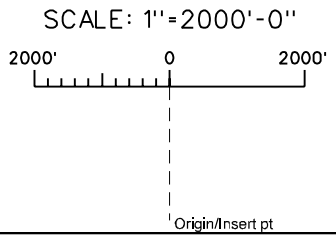	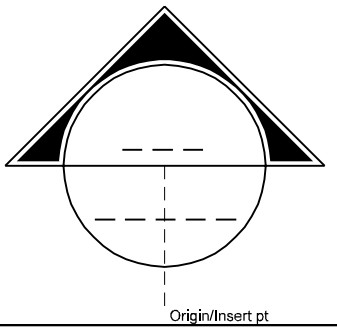
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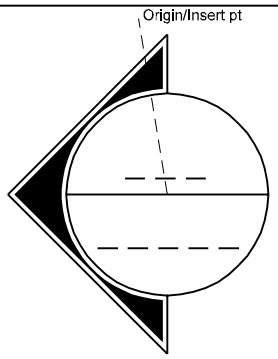	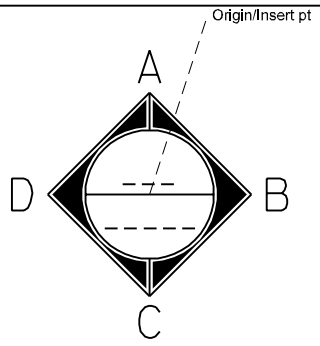
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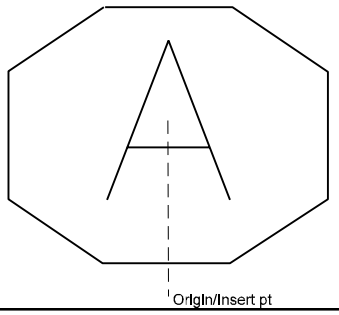
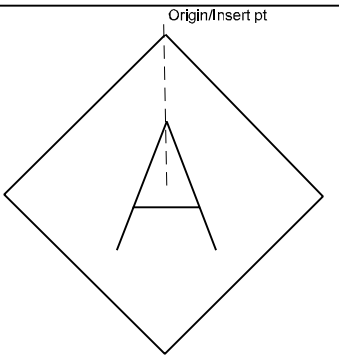
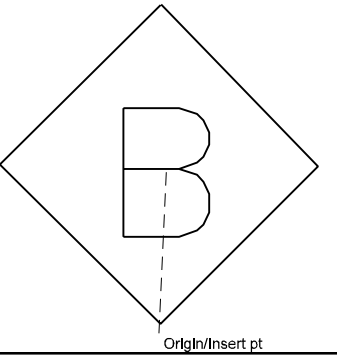
2 Hazardous Materials Lines Library

Hazardous Materials:HAZMAT
HAZARDOUS MATERAL TRAN
Element type: Line

2 Hazardous Materials Symbols Library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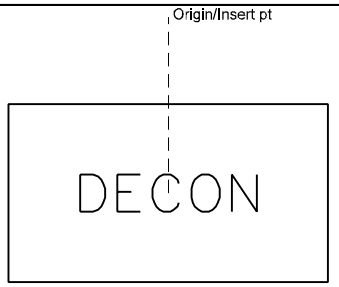	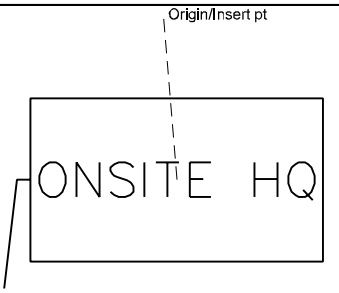	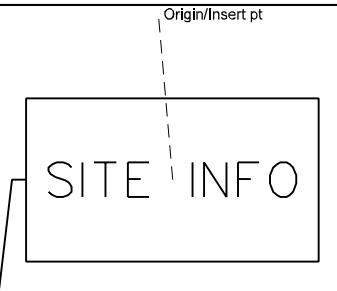
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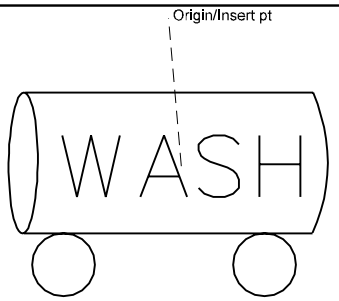
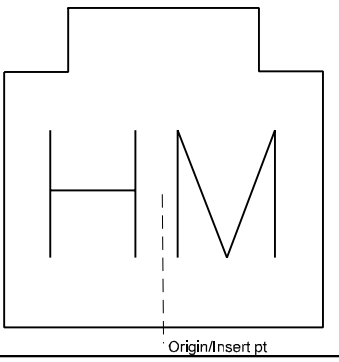
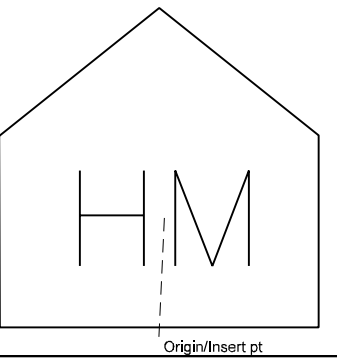
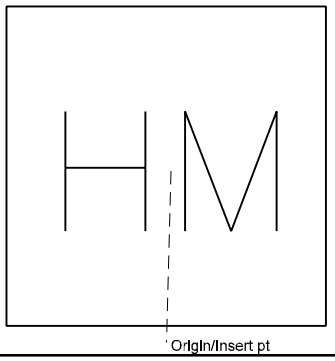
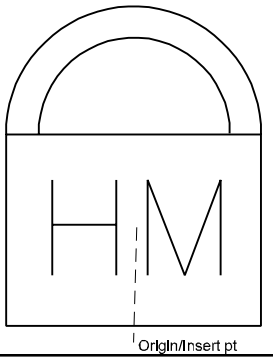
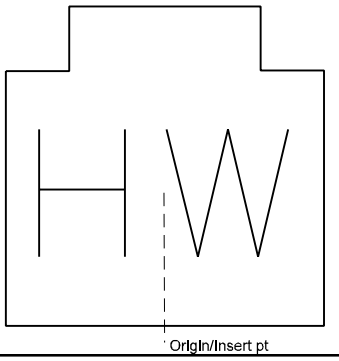
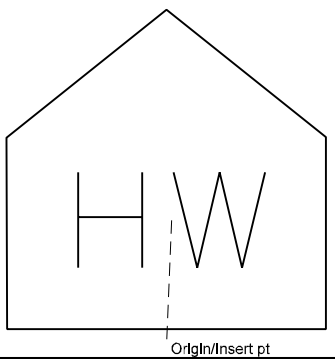
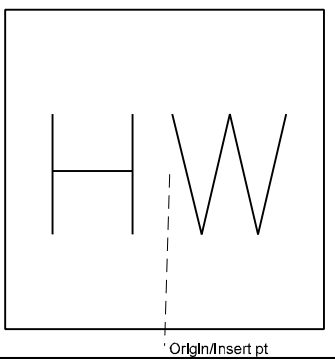
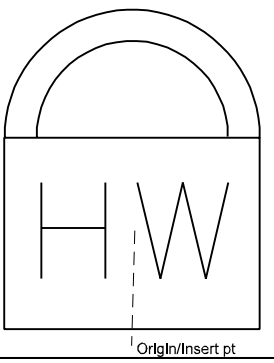
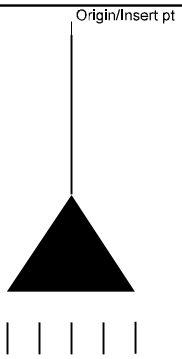
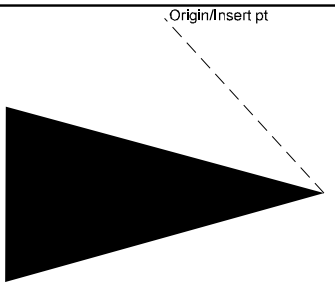
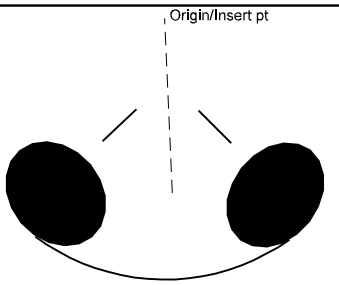
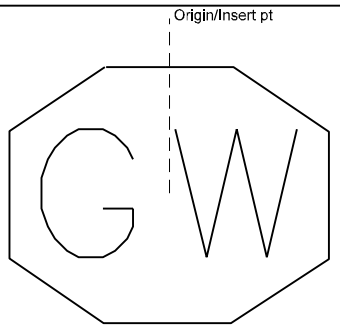
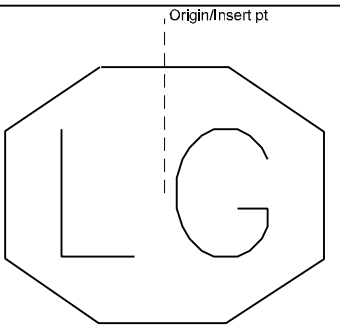
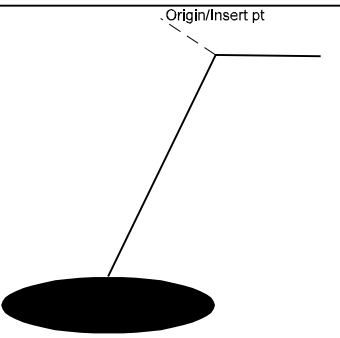
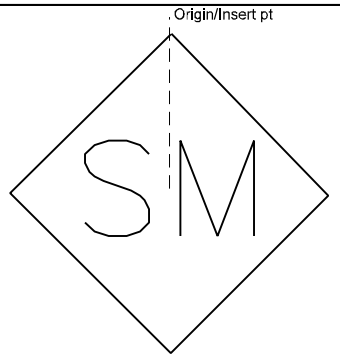
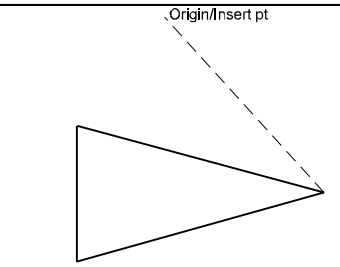
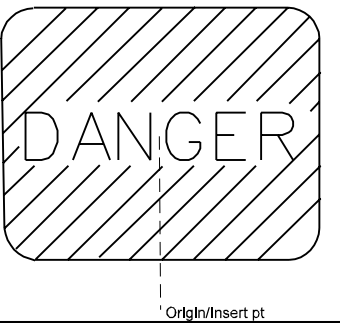
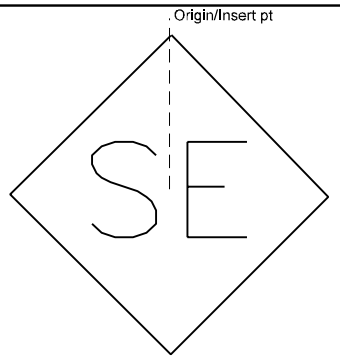
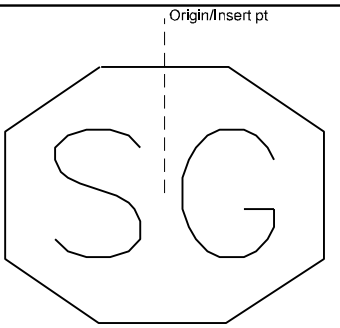
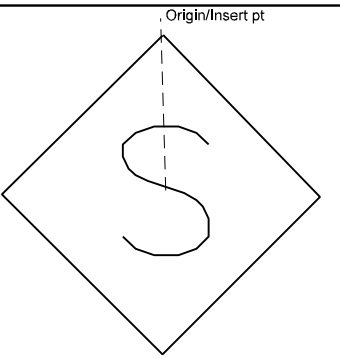
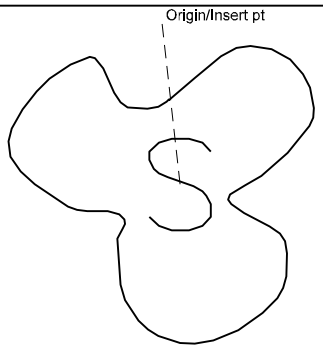
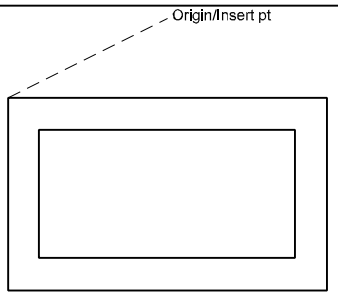
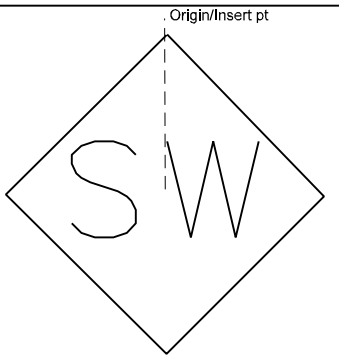
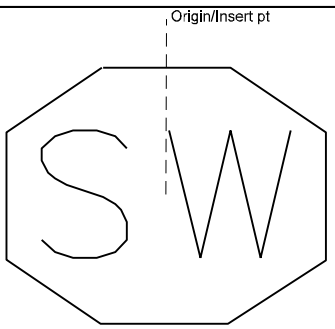
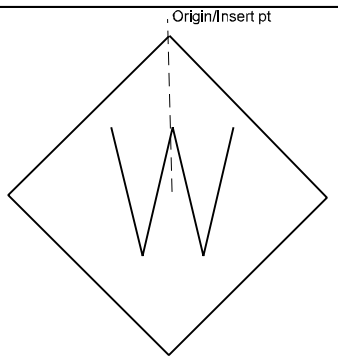
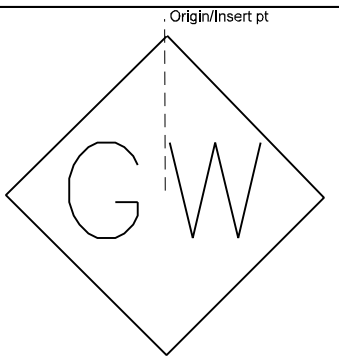
		
Hazardous Materials:EGWASH WASHDOWN WATER TANK Element type: Symbol	Hazardous Materials:EHZMSA HAZMAT STOR LOCATION Element type: Symbol	Hazardous Materials:EHZMSB HAZMAT STOR BLDG Element type: Symbol

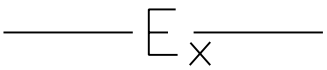
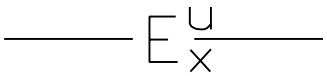
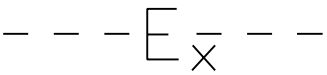
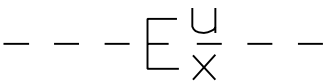
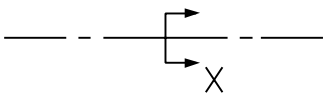
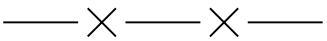
		
Hazardous Materials:EHZMSR HAZMAT STORAGE ROOM Element type: Symbol	Hazardous Materials:EHZMSV HAZMAT STOR VAULT Element type: Symbol	Hazardous Materials:EHZWSA HAZWASTE STOR LOC Element type: Symbol
		
Hazardous Materials:EHZWSB HAZWASTE STOR BLDG Element type: Symbol	Hazardous Materials:EHZWSR HAZWASTE STOR ROOM Element type: Symbol	Hazardous Materials:EHZWSV HAZWASTE STOR VAULT Element type: Symbol
		
Hazardous Materials:EMGSHW EMERGENCY SHOWER Element type: Symbol	Hazardous Materials:EPOLLS POLLUTION SOURCE SITE Element type: Symbol	Hazardous Materials:EYEWAS EMERGENCY EYEWASH Element type: Symbol

		
Hazardous Materials:GWTQST GRDWTR QUALITY MON STATION Element type: Symbol	Hazardous Materials:LANGAS LANDFILL GAS MON PROBE Element type: Symbol	Hazardous Materials:MAGLOC MAGNETOMETER DET LOC Element type: Symbol
		
Hazardous Materials:MATSMP SOLID MAT SAMPLE LOC Element type: Symbol	Hazardous Materials:PRLLOC POTENTIAL RELEASE LOC Element type: Symbol	Hazardous Materials:RESTR RESTRICTED ACCESS Element type: Symbol
		
Hazardous Materials:SEDSMP SEDIMENT SAMPLE LOC Element type: Symbol	Hazardous Materials:SOLGAS SOIL GAS MONIT PROBE Element type: Symbol	Hazardous Materials:SOLSMP SOIL SAMPLE LOCATION Element type: Symbol

		
Hazardous Materials:SPLRES SPILL RESPONSE Element type: Symbol	Hazardous Materials:SPLTNK SPILL CONTAINMENT TANK Element type: Symbol	Hazardous Materials:SURSMP SURFACE WTR SAMPLE LOC Element type: Symbol
		
Hazardous Materials:SWTQST SURF WTR QUAL MON STATION Element type: Symbol	Hazardous Materials:WASSMP WASTE SAMPLE LOCATION Element type: Symbol	Hazardous Materials:WATSMP GROUNDWATER SAMPLE LOC Element type: Symbol

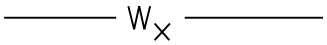
3 Survey/Mapping Lines Library

Survey/Mapping: 16THLN SIXTEENTH LINE Element type: Line	Survey/Mapping: BARDIT DITCH BARRIER Element type: Line	Survey/Mapping: BARDTB DITCH AND BERM BARRIER Element type: Line
S	M	
Survey/Mapping: BARGEN GENERIC SECURITY BARRIER Element type: Line	Survey/Mapping: BARMAS SECURITY MASONRY BARRIER Element type: Line	Survey/Mapping: CMP12 CMP 12IN DIA LINEAR Element type: Line
	C X	C U X
Survey/Mapping: CMPU12 CMPU 12IN DIA LINEAR Element type: Line	Survey/Mapping: COMARX EXIST COMMUNCATION AERIAL Element type: Line	Survey/Mapping: COMUGX EXIST COMMUNCATION UNDERG Element type: Line

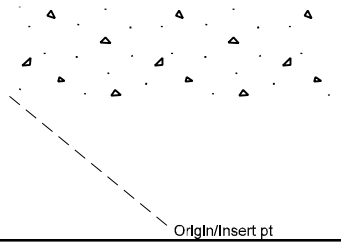
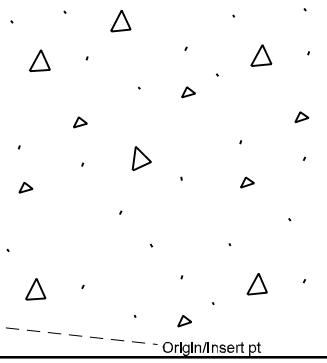
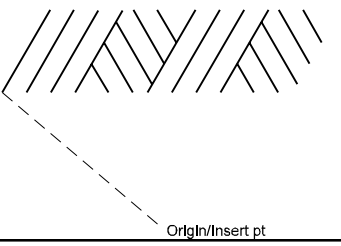
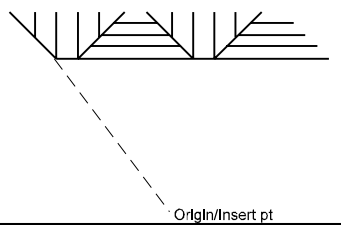
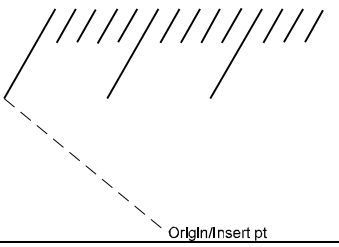
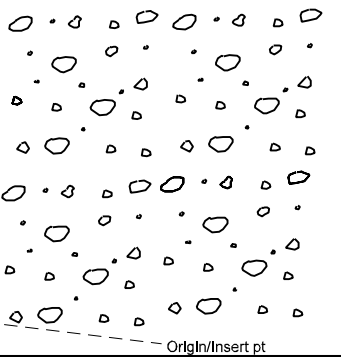
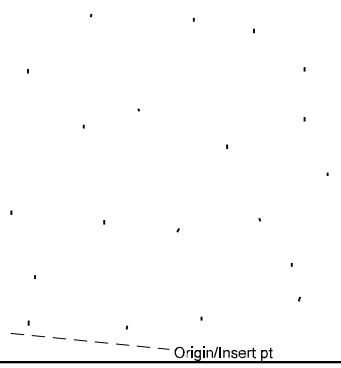
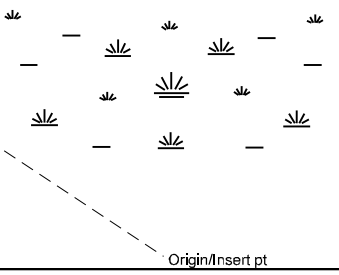
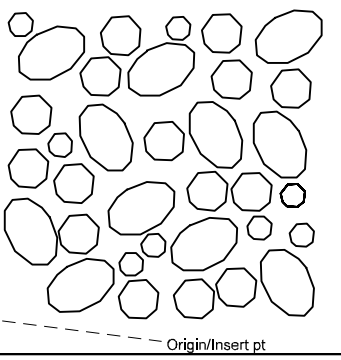
Survey/Mapping: CONLMT CONSTRUCTION LIMIT Element type: Line	Survey/Mapping: CULVRT CULVERT PIPE Element type: Line	Survey/Mapping: DITCH DITCH LINE Element type: Line
		
Survey/Mapping: EPARX EXIST ELEC AERIAL PRIMARY Element type: Line	Survey/Mapping: EPUGX EXIST ELEC UNDERG PRIMARY Element type: Line	Survey/Mapping: ESARX EXIST ELEC AERIAL SEC Element type: Line
		
Survey/Mapping: ESUGX EXIST ELEC UNDERG SEC Element type: Line	Survey/Mapping: EUDUCX EXIST UNDERGROUND DUCT BANK Element type: Line	Survey/Mapping: FENCE FENCE Element type: Line

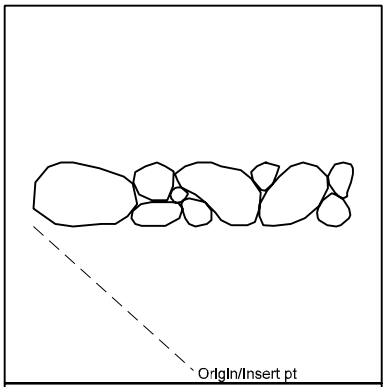
FO	F	FOR
Survey/Mapping: FIBOPT FIBER OPTICS LINE Element type: Line	Survey/Mapping: FIRE FIRE PROTECTION WATR SUPPLY Element type: Line	Survey/Mapping: FUELOR FUEL OIL RETURN Element type: Line
FOS	FOV	
Survey/Mapping: FUELOS FUEL OIL SUPPLY Element type: Line	Survey/Mapping: FUELOV FUEL OIL TANK VENT Element type: Line	Survey/Mapping: GUARD GUARD RAIL Element type: Line
	INW	LPG
Survey/Mapping: INDXDC INDEX DEPTH CONTOUR Element type: Line	Survey/Mapping: IWASTE INDUSTRIAL WASTE Element type: Line	Survey/Mapping: LIQPET LIQUID PETROLEUM GAS Element type: Line

	NPW	G_X
Survey/Mapping: MINRDC MINOR DEPTH CONTOUR Element type: Line	Survey/Mapping: NONPOT NONPOTABLE WATER Element type: Line	Survey/Mapping: NTGASX EXISTING NATURAL GAS Element type: Line
	PL	
Survey/Mapping: PROJBL PROJECT BOUNDARY LINE Element type: Line	Survey/Mapping: PROPL PROPERTY LINE Element type: Line	Survey/Mapping: RAILS SINGLE RAILROAD Element type: Line
R / W	SS_X	SD_X
Survey/Mapping: RTOFWY RIGHT OF WAY Element type: Line	Survey/Mapping: SSWAFX EXISTING SANITARY SEWER Element type: Line	Survey/Mapping: STRAFX EXISTING STORM DRAIN Element type: Line

	
Survey/Mapping:TREEL TREE LINE Element type: Line	Survey/Mapping:WATRX EXISTING WATER LINE Element type: Line

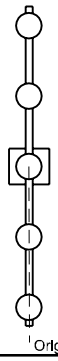
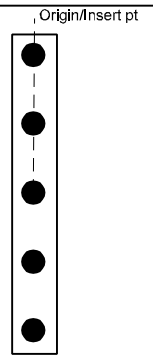
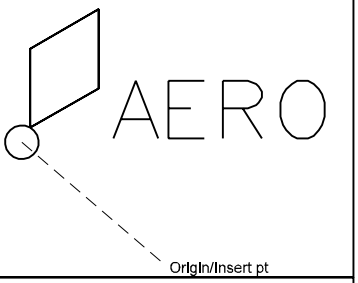
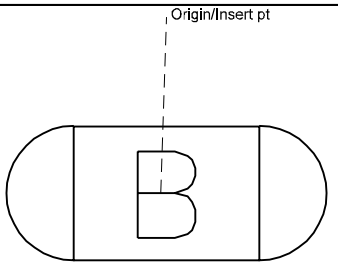
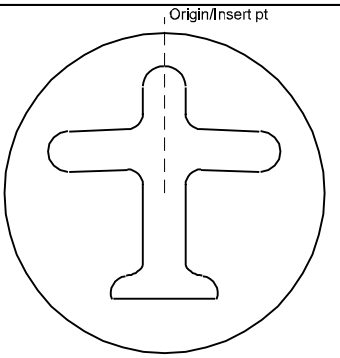
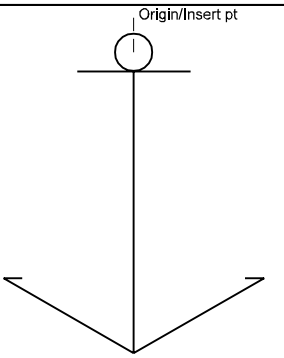
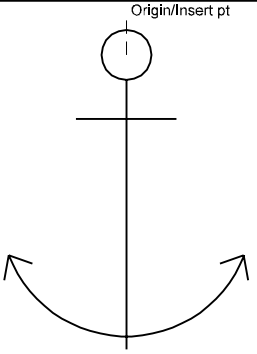
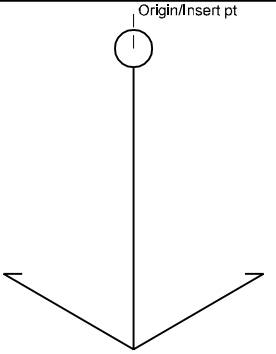
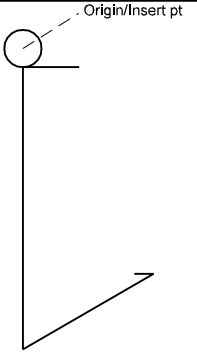
3 Survey/Mapping Patterns Library

		
Survey/Mapping: CONC CONCRETE Element type: Pattern	Survey/Mapping: CONCST CONCRETE STONE Element type: Pattern	Survey/Mapping: EEARTH EXISTING EARTH Element type: Pattern
		
Survey/Mapping: EROCK EXISTING ROCK Element type: Pattern	Survey/Mapping: FILLSC FILL SECTION Element type: Pattern	Survey/Mapping: GRAVEL GRAVEL Element type: Pattern
		
Survey/Mapping: GROUT GROUT Element type: Pattern	Survey/Mapping: LSWAMP LARGE SWAMP Element type: Pattern	Survey/Mapping: POROUS POROUS Element type: Pattern



Survey/Mapping: RIPRAP
RIPRAP PATTERN
Element type: Pattern

3 Survey/Mapping Symbols Library

		
Survey/Mapping: ACLLEL APPROACH LIGHTBAR_ELEVATED Element type: Symbol	Survey/Mapping: ACLLSF APPROACH LIGHTBAR_SEMIFLUSH Element type: Symbol	Survey/Mapping: AERO SEAPLANE ANCHORAGE BUOY Element type: Symbol
		
Survey/Mapping: AFBCN AIRFIELD BEACON Element type: Symbol	Survey/Mapping: AIRFLD AIRFIELD SYMBOL Element type: Symbol	Survey/Mapping: ANCHR1 ANCHORAGE LARGE VESSEL Element type: Symbol
		
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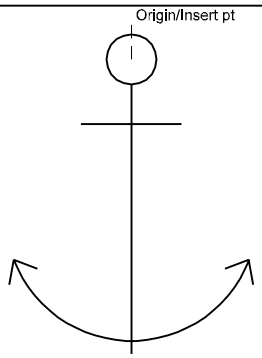	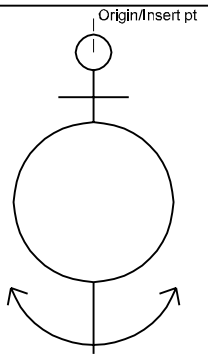	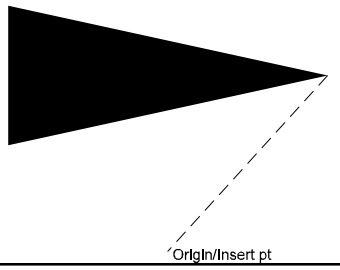
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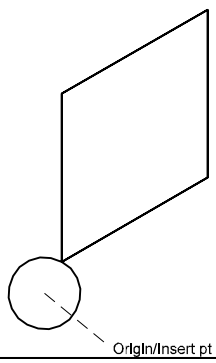	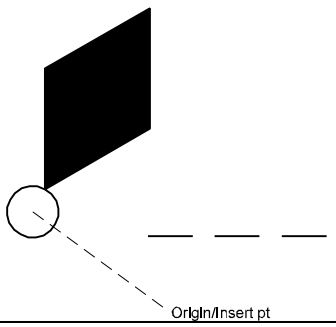	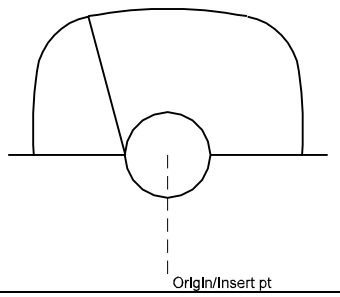
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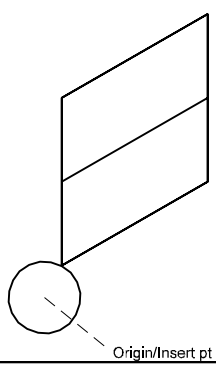	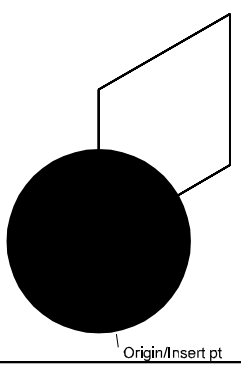	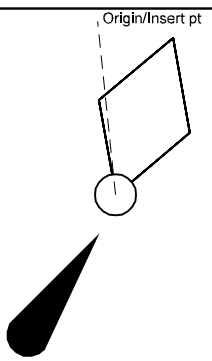
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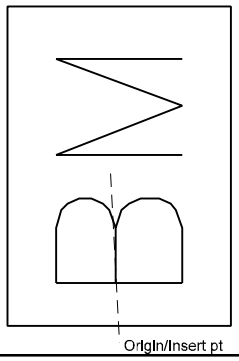	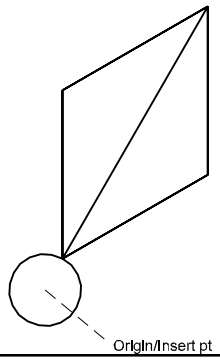	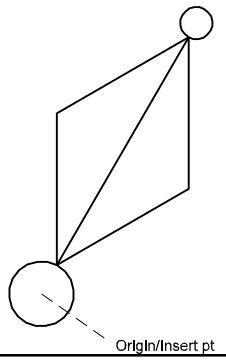
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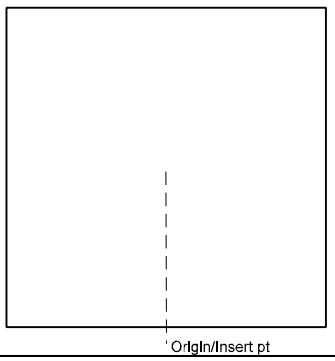	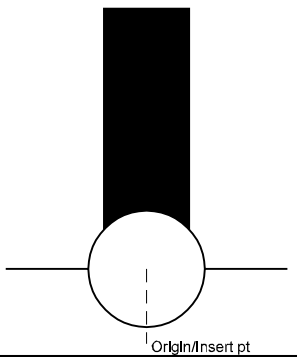	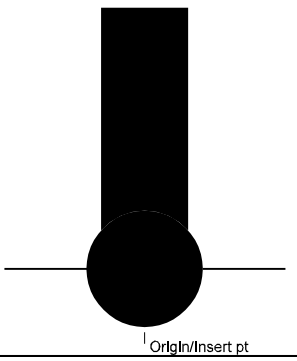
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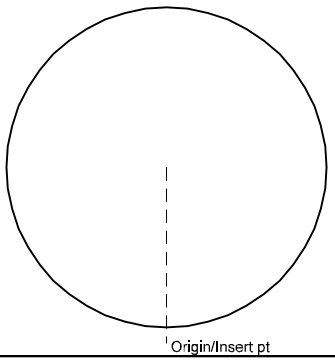	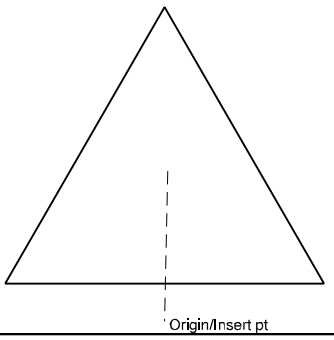	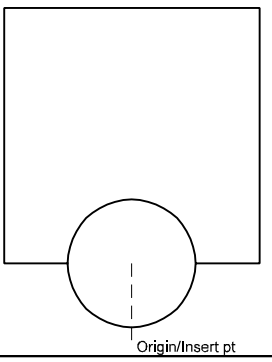
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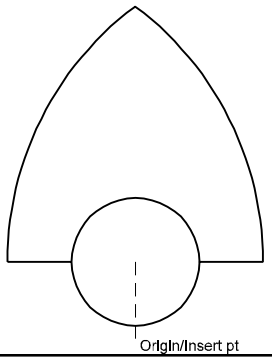	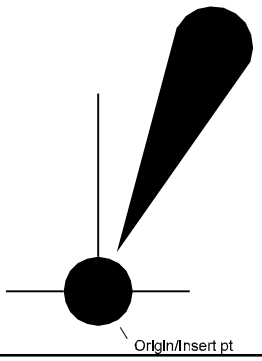	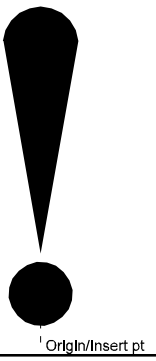
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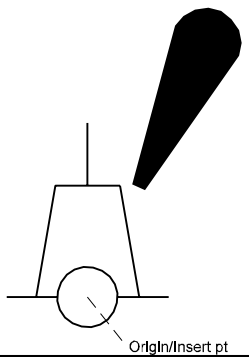	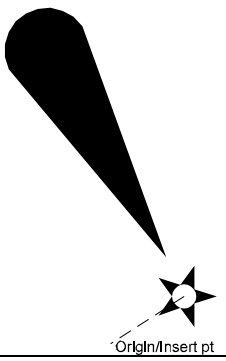	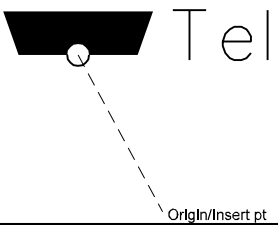
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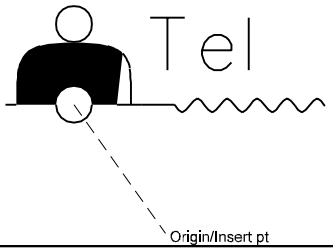	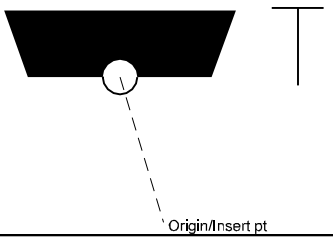	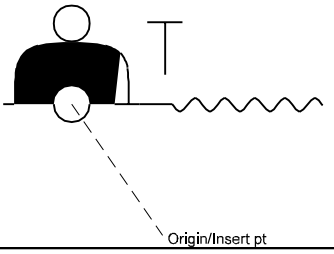
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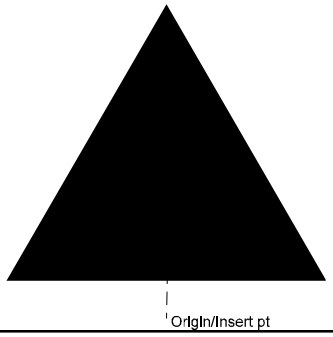	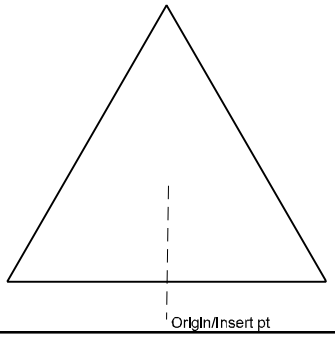	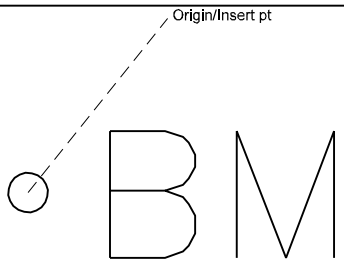
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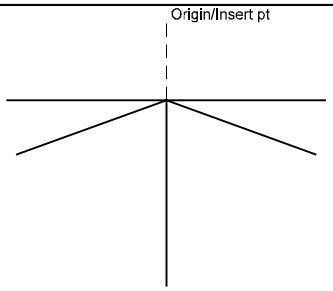	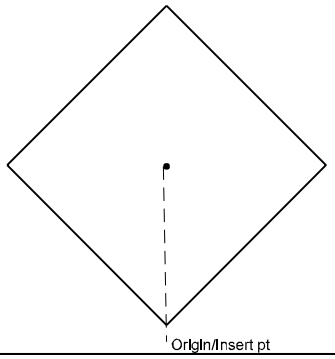	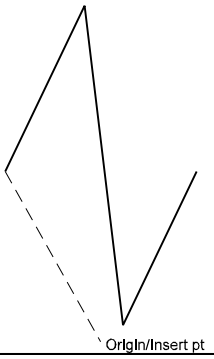
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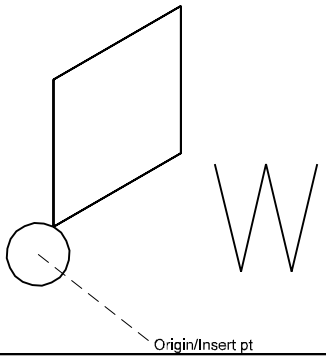	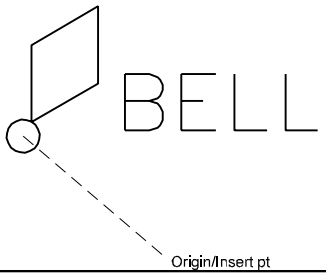	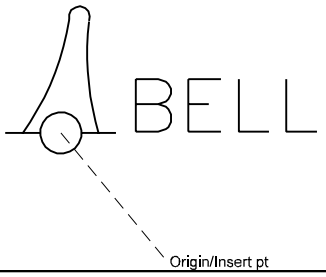
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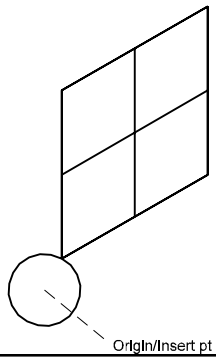	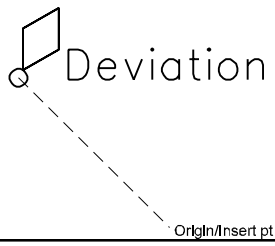	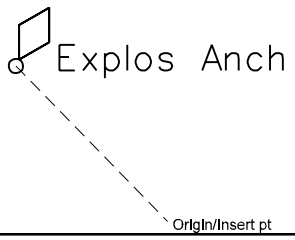
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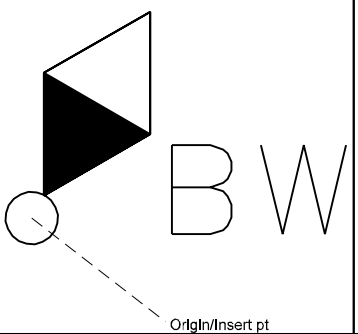
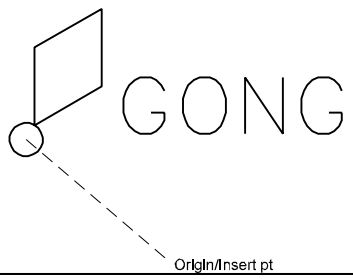
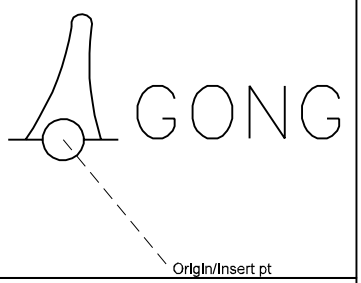
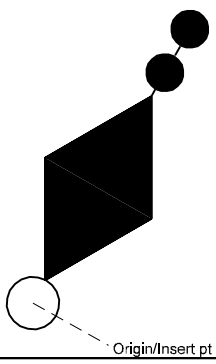
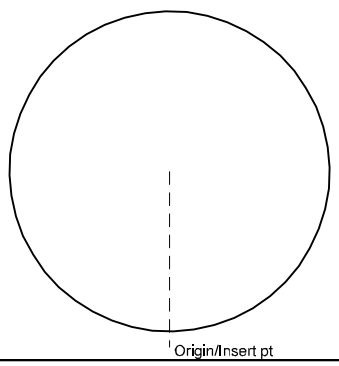
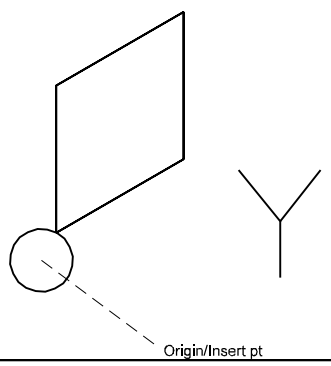
		
Survey/Mapping: BYFISH FISH TRAP BUOY Element type: Symbol	Survey/Mapping: BYGONB GONG BARREL BUOY Element type: Symbol	Survey/Mapping: BYGONP GONG PILLAR BUOY Element type: Symbol
		
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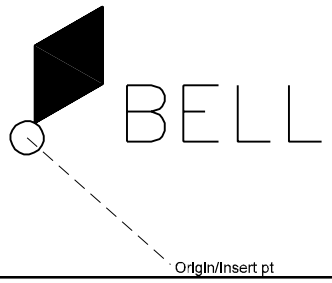
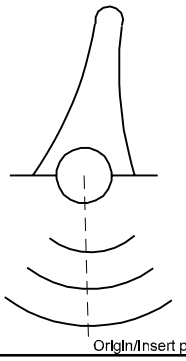
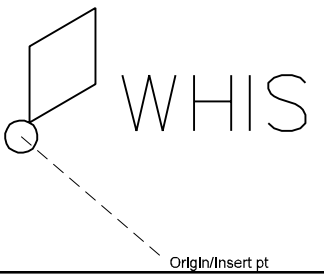
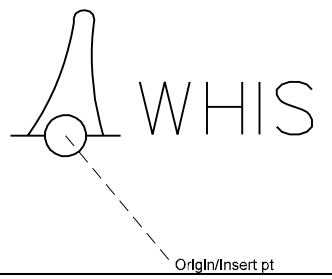
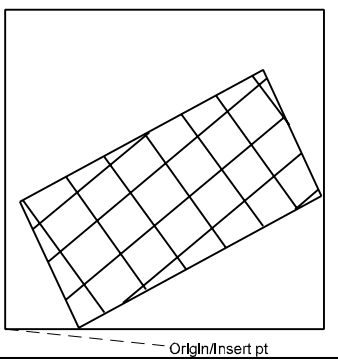
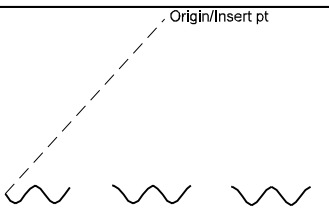
		
Survey/Mapping: BYWAV1 WAVE ACTUATED BELL BUOY Element type: Symbol	Survey/Mapping: BYWAV2 WAVE ACTUATED BELL BUOY Element type: Symbol	Survey/Mapping: BYWHIB WHISTLE BARREL BUOY Element type: Symbol
		
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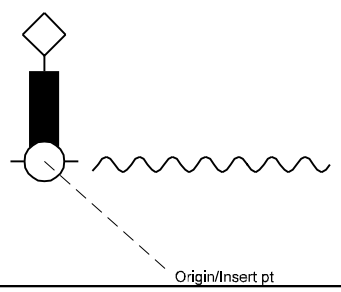	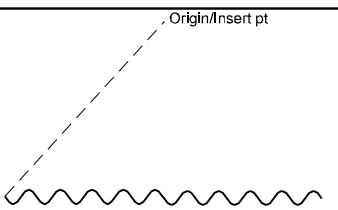	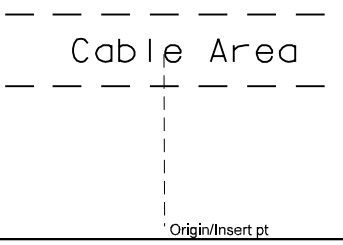
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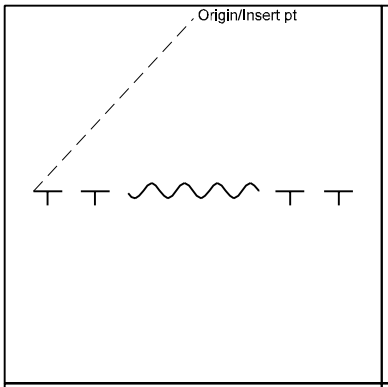	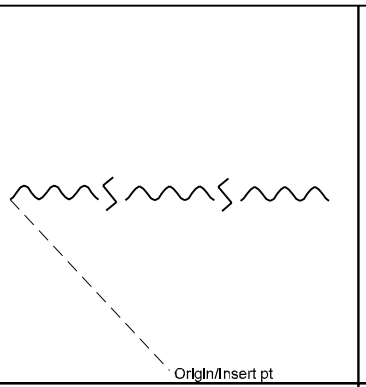	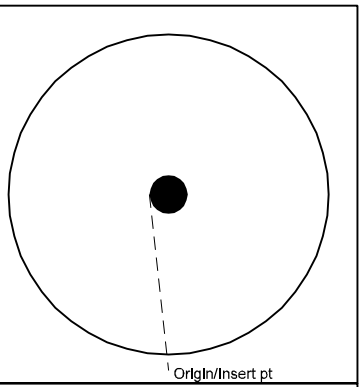
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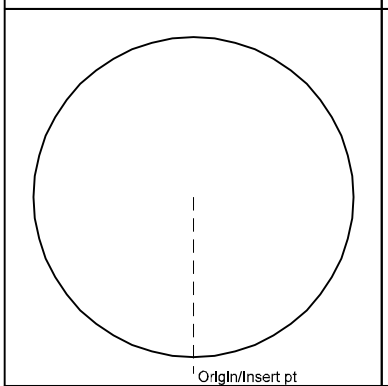	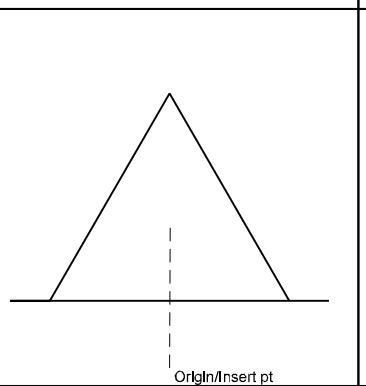	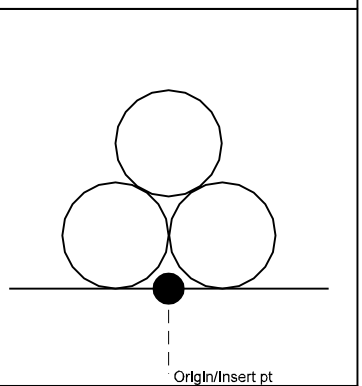
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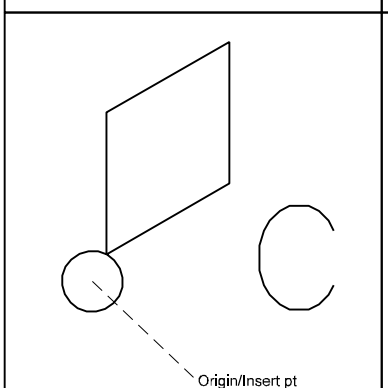
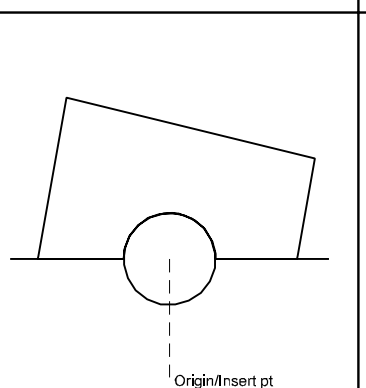
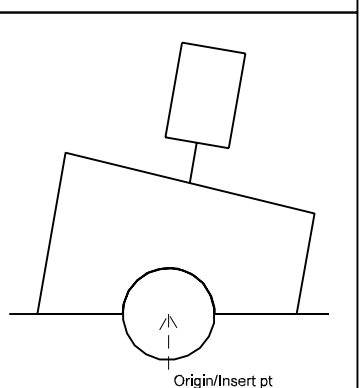
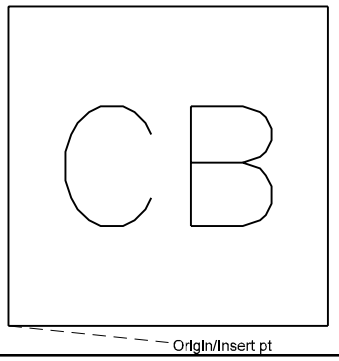
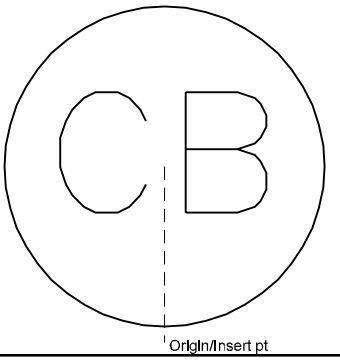
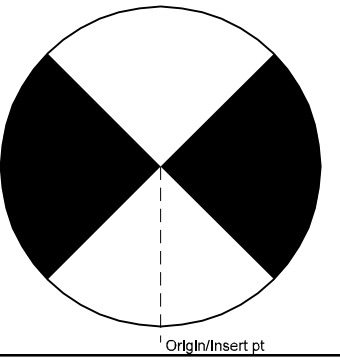
		
Survey/Mapping: CAN1 CAN BUOY Element type: Symbol	Survey/Mapping: CAN2 CAN BUOY Element type: Symbol	Survey/Mapping: CANWT WHITE CAN BUOY W TOPMARK Element type: Symbol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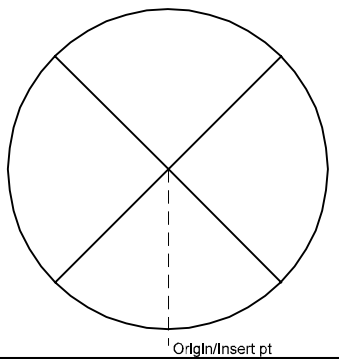
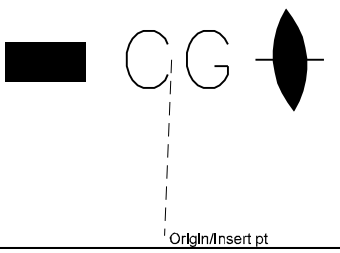
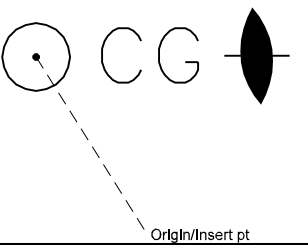
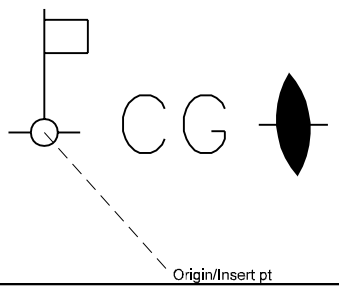
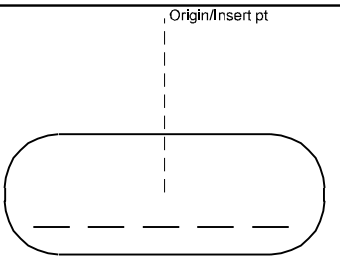
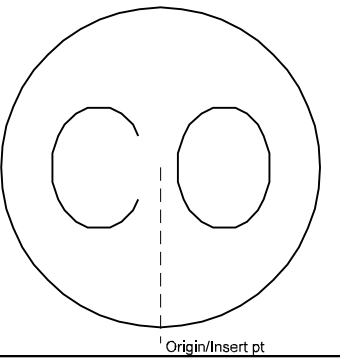
		
Survey/Mapping: CDHUDR CORE DRILL HOLE UNDRILLED Element type: Symbol	Survey/Mapping: CGRES1 COAST GUARD RESCUE STA Element type: Symbol	Survey/Mapping: CGRES2 COAST GUARD RESCUE STA Element type: Symbol
		
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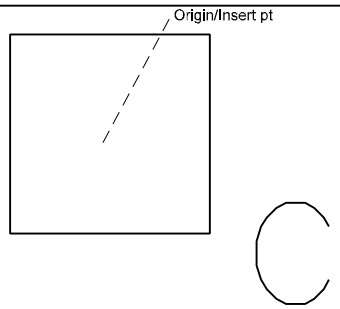
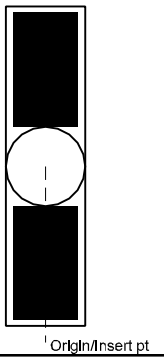
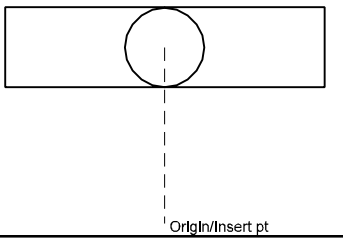
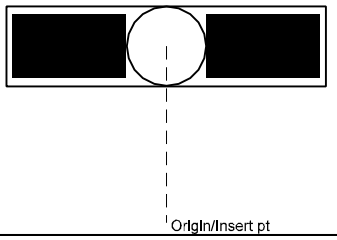
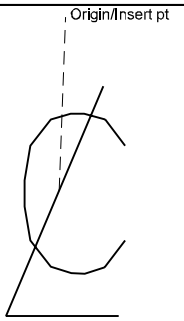
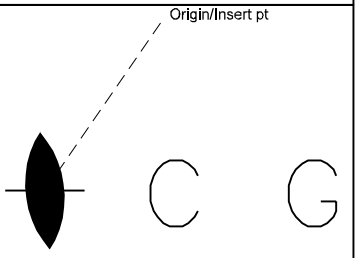
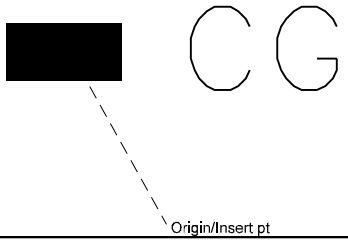
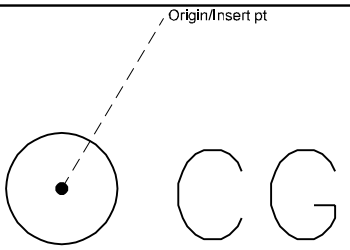
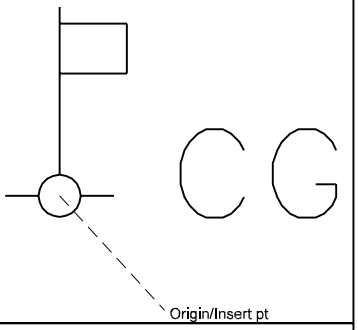
		
Survey/Mapping: CMHLX COMMO MANHOLE_EXIST Element type: Symbol	Survey/Mapping: CNR90 CORNER SOLID 90 Element type: Symbol	Survey/Mapping: CNRNF CORNER NOT FOUND Element type: Symbol
		
Survey/Mapping: CNRSF CORNER SOLID FLAT Element type: Symbol	Survey/Mapping: CNTLIN CENTERLINE SYMBOL Element type: Symbol	Survey/Mapping: COAST1 COAST GUARD STATION Element type: Symbol
		
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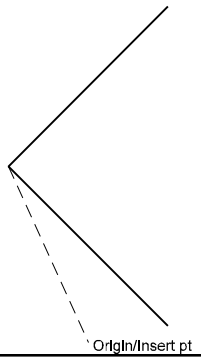
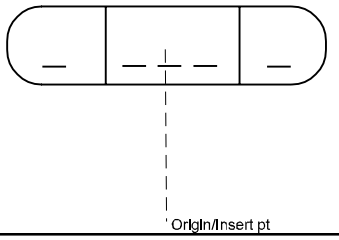
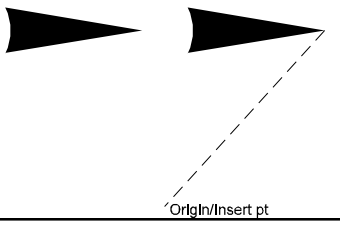
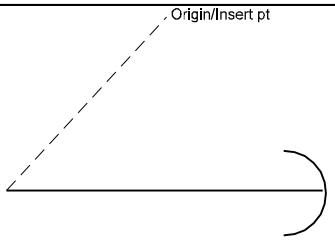
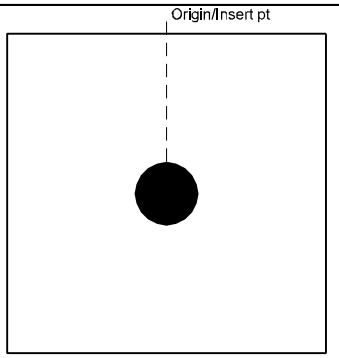
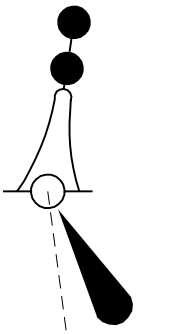
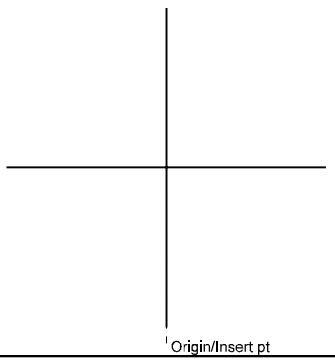
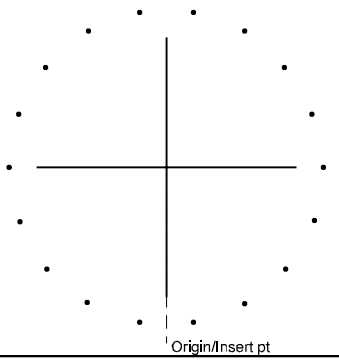
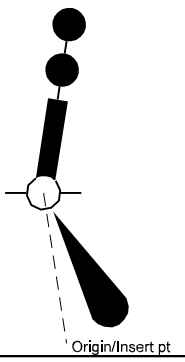
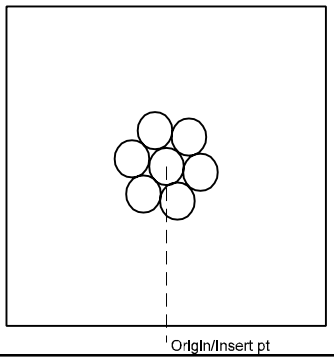
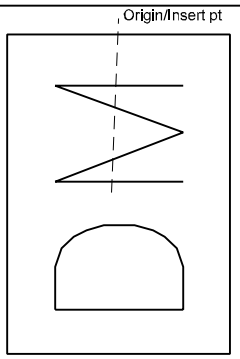
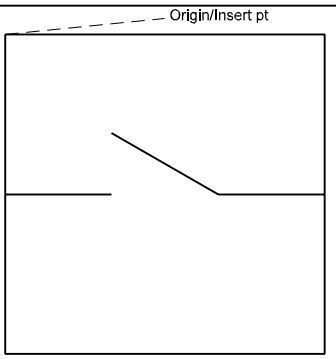
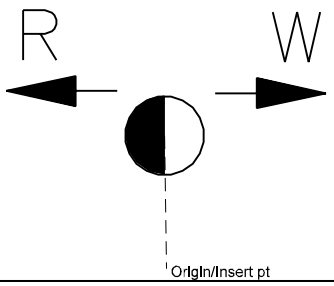
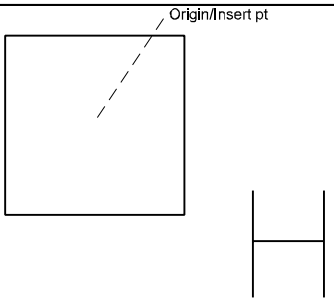
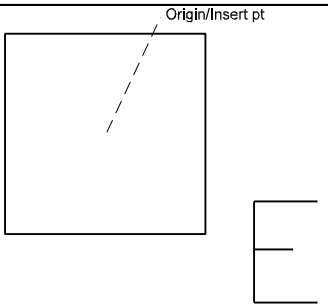
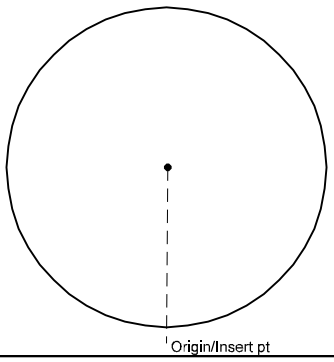
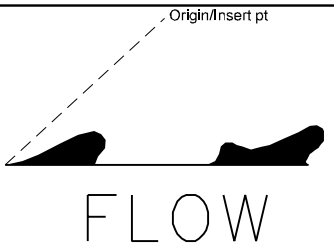
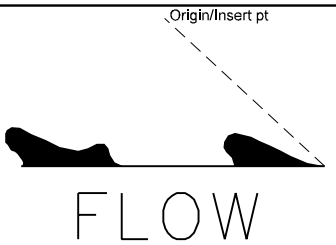
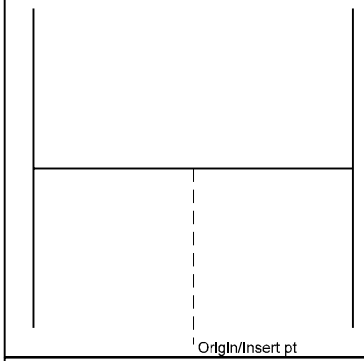
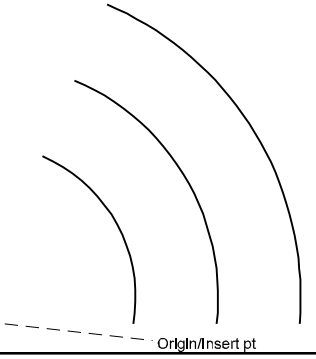
		
Survey/Mapping: CULVEE CULVERT END SYMBOL Element type: Symbol	Survey/Mapping: DBID DUCTBANK ID SYMBOL Element type: Symbol	Survey/Mapping: DBLARR DOUBLE ARROW TERMINATOR Element type: Symbol
		
Survey/Mapping: DGUYX DOWNGUY_EXISTING Element type: Symbol	Survey/Mapping: DISPLT DISUSED PLATFORM Element type: Symbol	Survey/Mapping: DNGPB LIGHTED DANGER BUOY PILLAR Element type: Symbol
		
Survey/Mapping: DNGRK DANGER U W ROCK DEPTH UNKNW Element type: Symbol	Survey/Mapping: DNGRK1 DANGER U W ROCK DEPTH UNKWN Element type: Symbol	Survey/Mapping: DNGSB LIGHTED DANGER BUOY SPAR Element type: Symbol

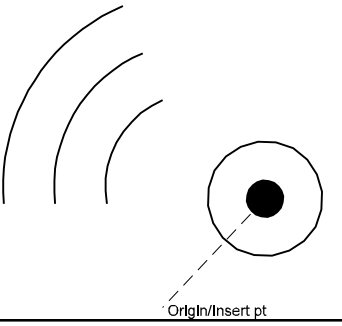
		
Survey/Mapping: DOLPHN DOLPHIN Element type: Symbol	Survey/Mapping: DSTMKR RW DISTANCE MARKER Element type: Symbol	Survey/Mapping: DSWTCH DIST SWITCH SWITCHING STAT Element type: Symbol
		
Survey/Mapping: DTHL DISPLACE THRESHOLD LIGHT Element type: Symbol	Survey/Mapping: EHHLX ELEC HANDHOLE_EXIST Element type: Symbol	Survey/Mapping: EMHLX ELEC MANHOLE_EXIST Element type: Symbol
		
Survey/Mapping: FIXPNT FIXED POINT Element type: Symbol	Survey/Mapping: FLARRL FLOW ARROW LEFT IN 0 POINT Element type: Symbol	Survey/Mapping: FLARRR FLOW ARROW RIGHT IN 0 POINT Element type: Symbol



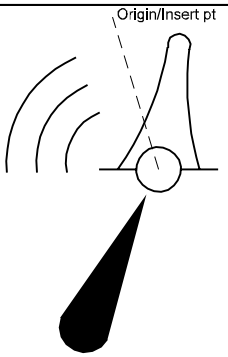
Survey/Mapping: FLDGAT
FLOOD GATE
Element type: Symbol



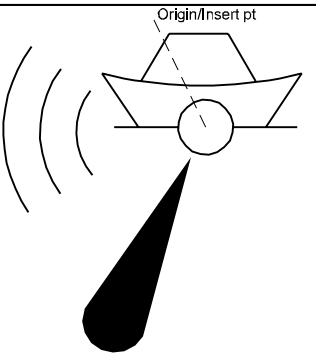
Survey/Mapping: FOG
FOG SIGNAL
Element type: Symbol



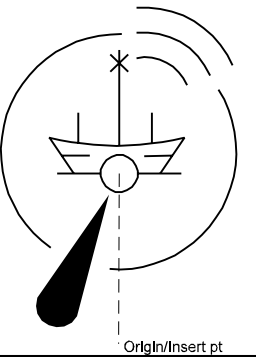
Survey/Mapping: FOGBCN
FOG SIGNAL BEACON
Element type: Symbol



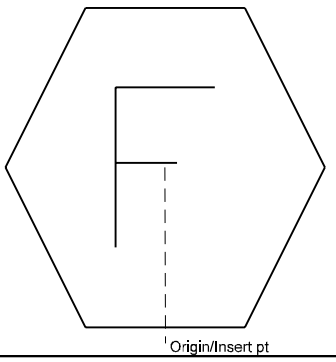
Survey/Mapping: FOGBY
FOG SIGNAL BUOY
Element type: Symbol



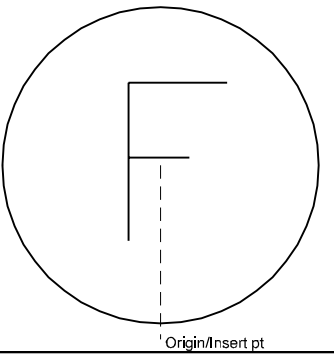
Survey/Mapping: FOGLS
FOG SIGNAL LIGHT SHIP
Element type: Symbol



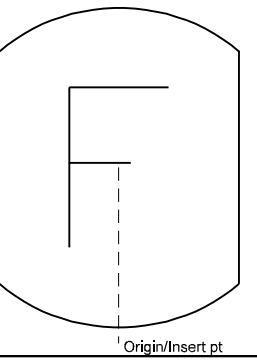
Survey/Mapping: FOGLSM
FOG SIG LIGHT SHIP MANNED
Element type: Symbol



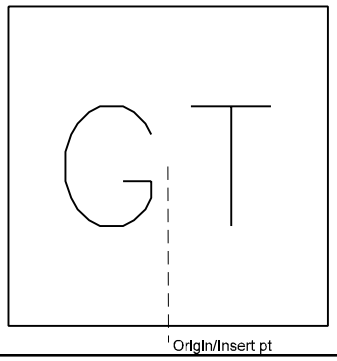
Survey/Mapping: FOMETR
FUEL OIL METER
Element type: Symbol



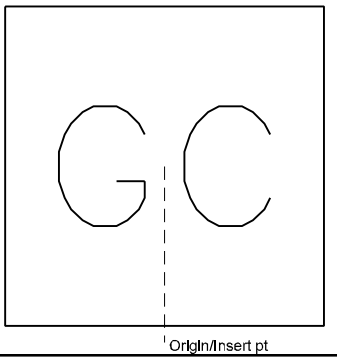
Survey/Mapping: FOMHOL
FUEL OIL MANHOLE
Element type: Symbol



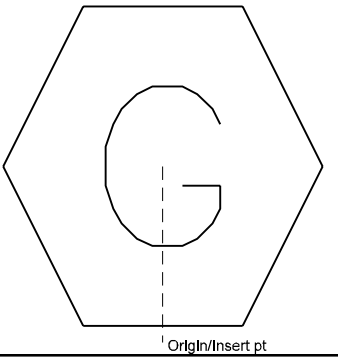
Survey/Mapping: FOVALT
FUEL OIL VAULT
Element type: Symbol



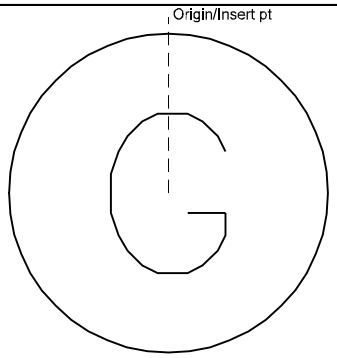
Survey/Mapping: GREASE
GREASE TRAP
Element type: Symbol



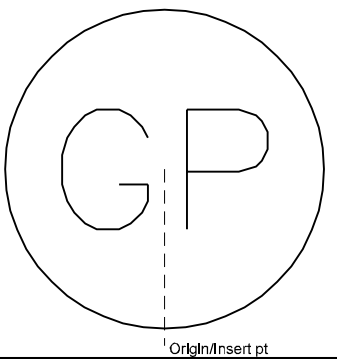
Survey/Mapping: GRITCH
GRIT CHAMBER
Element type: Symbol



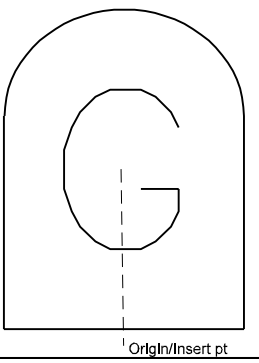
Survey/Mapping: GSMETR
GAS METER
Element type: Symbol



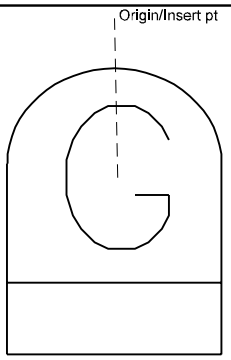
Survey/Mapping: GSMHOL
GAS MANHOLE
Element type: Symbol



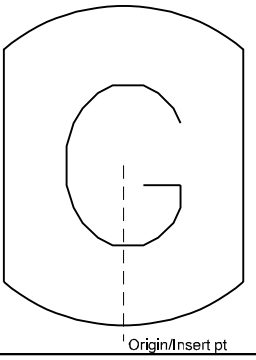
Survey/Mapping: GSPLNT
GAS PLANT
Element type: Symbol



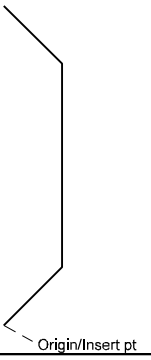
Survey/Mapping: GSRECR
GAS RECEIVER
Element type: Symbol



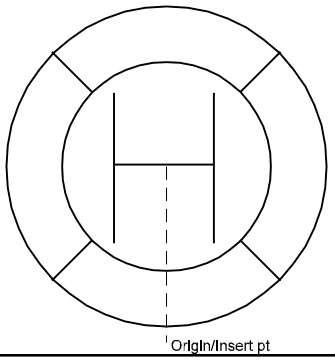
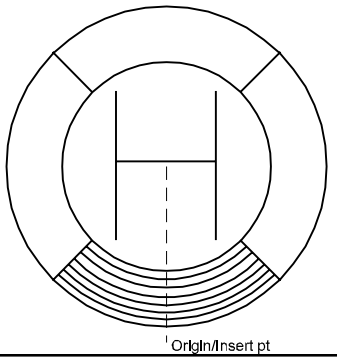
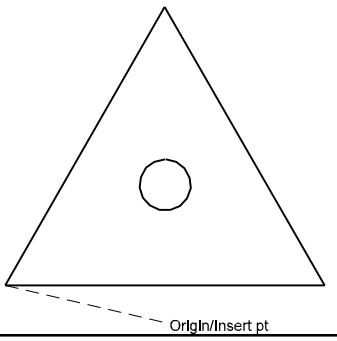
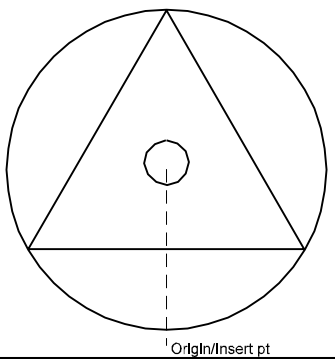
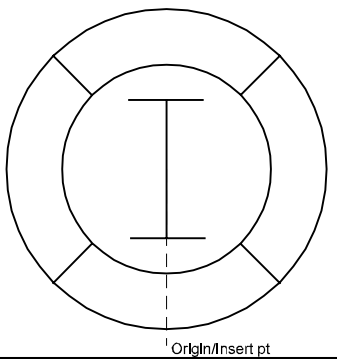
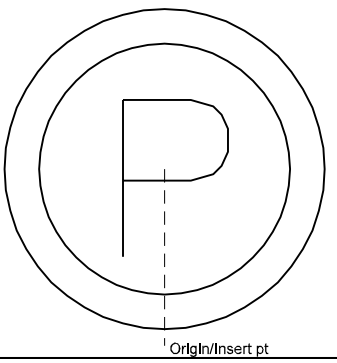
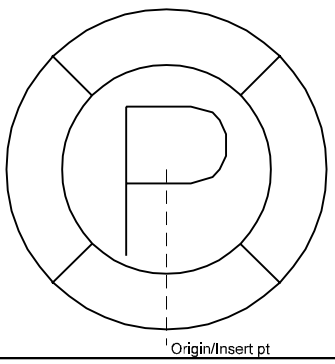
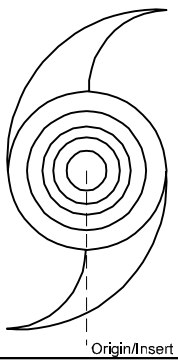
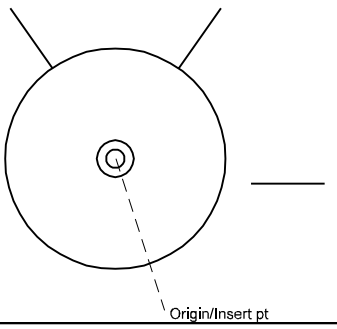
Survey/Mapping: GSTRAP
GAS TRAP
Element type: Symbol

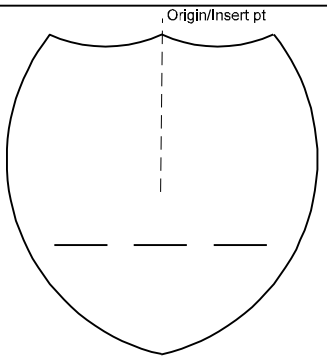
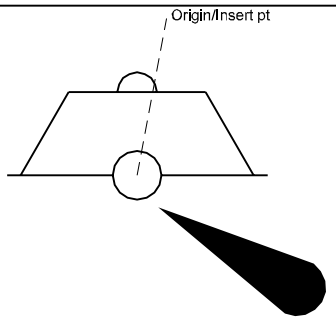
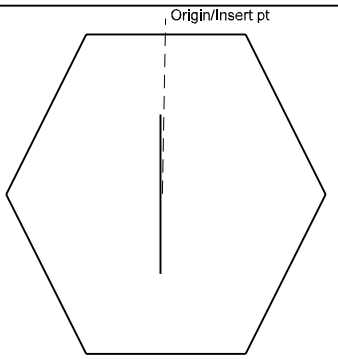
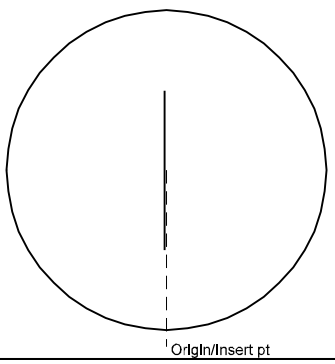
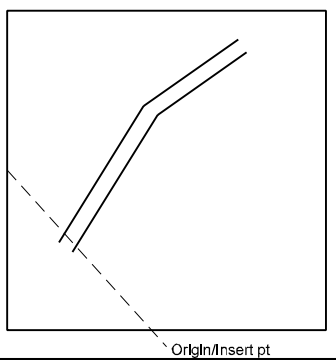
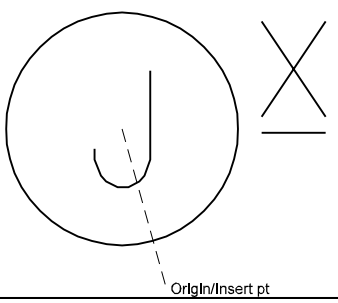
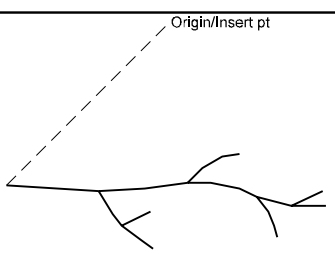
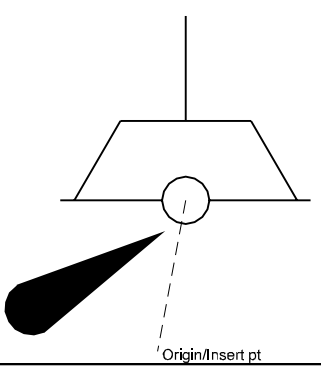
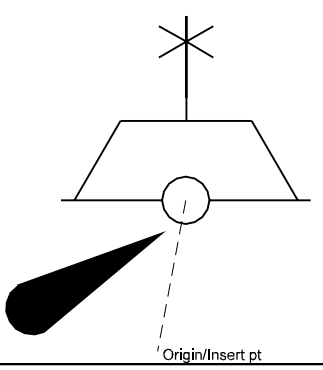


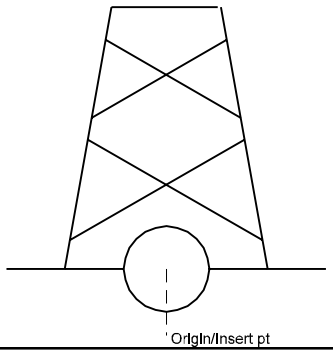
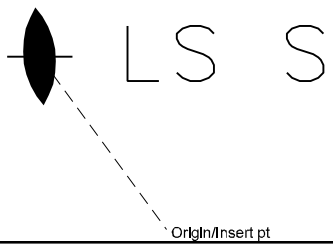
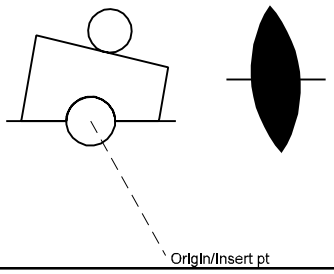
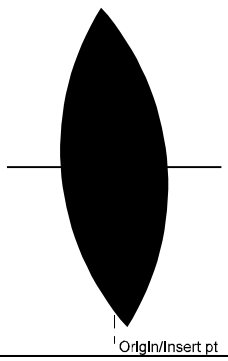
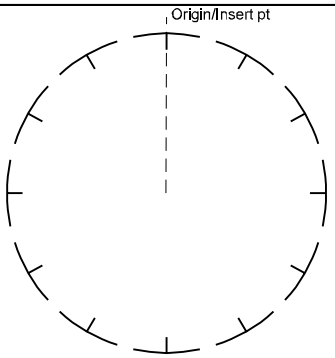
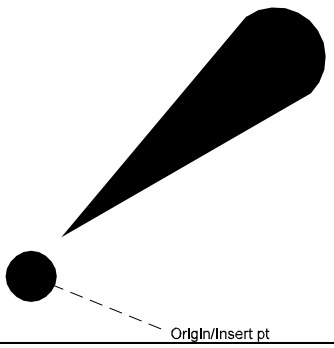
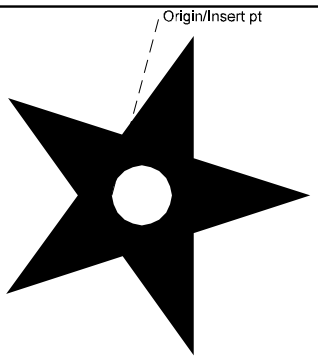
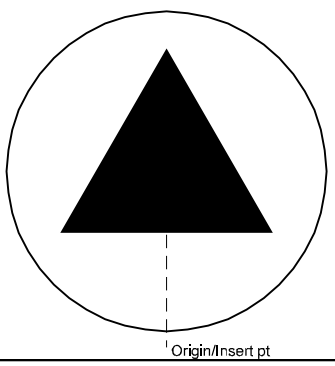
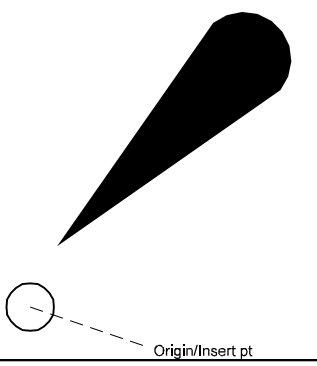
Survey/Mapping: GSVALT
GAS VALVE VAULT
Element type: Symbol

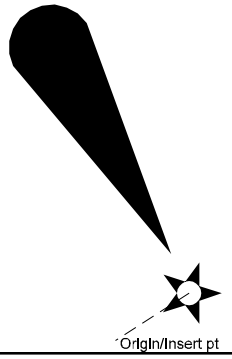
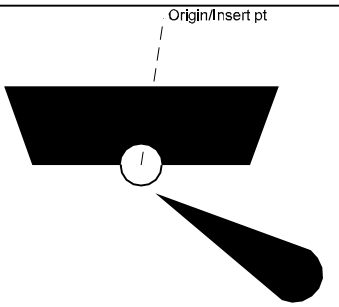
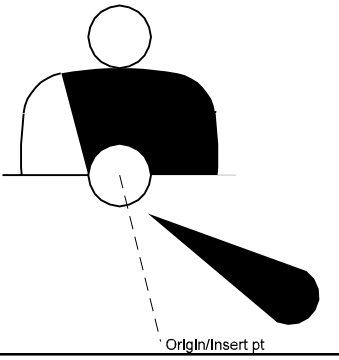
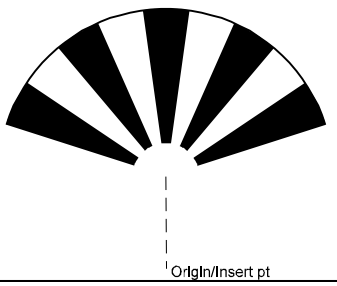
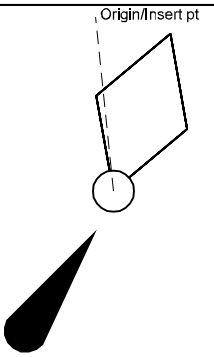
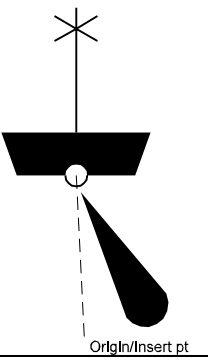
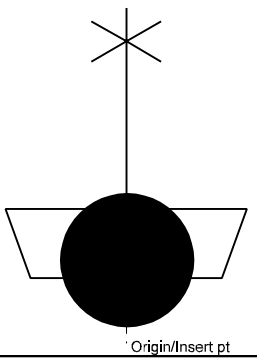
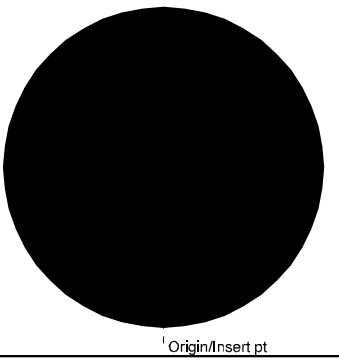
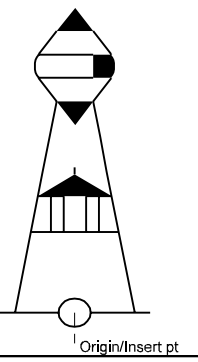


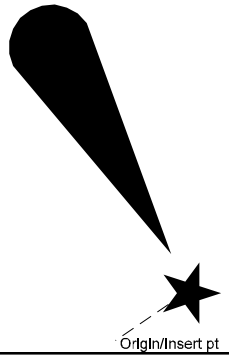
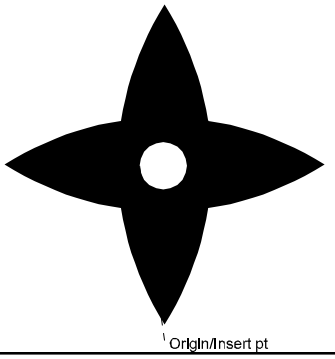
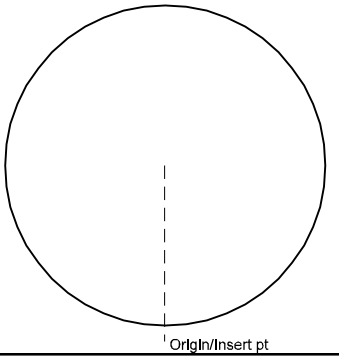
Survey/Mapping: HEADWL
HEADWALL
Element type: Symbol

		
Survey/Mapping: HLL HOVERLANE Element type: Symbol	Survey/Mapping: HLLL HOVERLANE LIMIT LIGHT Element type: Symbol	Survey/Mapping: HORCPT HORIZONTAL CONTROL PT Element type: Symbol
		
Survey/Mapping: HOVCPT HORIZ VERT CONTROL PT Element type: Symbol	Survey/Mapping: HPIL HELIPAD INSET LIGHT Element type: Symbol	Survey/Mapping: HPPLEL HELIPAD PER LIGHT_ELEVATED Element type: Symbol
		
Survey/Mapping: HPPLSF HELIPAD PERLIGHT_SEMIFLUSH Element type: Symbol	Survey/Mapping: HUREYE HURRICANE EYE Element type: Symbol	Survey/Mapping: HYDRNT HYDRANT Element type: Symbol

		
Survey/Mapping: INSHWY INTERSTATE HIGHWAY SYMBOL Element type: Symbol	Survey/Mapping: INSTBY OIL GAS INSTALL BUOY Element type: Symbol	Survey/Mapping: IWMETR INDUSTRIAL WASTE WATR METER Element type: Symbol
		
Survey/Mapping: IWMHOL INDUSTRIAL WASTE WATR MANHL Element type: Symbol	Survey/Mapping: JETTY JETTY Element type: Symbol	Survey/Mapping: JNBX EXTERIOR UTIL JUNCTION BOX Element type: Symbol
		
Survey/Mapping: KELP KELP SEAWEED Element type: Symbol	Survey/Mapping: LANBY1 LANBY SUPERBUOY NAVAID Element type: Symbol	Survey/Mapping: LANBY2 LANBY SUPERBUOY NAVAID Element type: Symbol

		
Survey/Mapping: LATBCN LATTICE BEACON Element type: Symbol	Survey/Mapping: LIFEBT LIFEBOAT STATION Element type: Symbol	Survey/Mapping: LIFEM1 LIFEBOAT AT MOORING Element type: Symbol
		
Survey/Mapping: LIFEM2 LIFEBOAT AT MOORING Element type: Symbol	Survey/Mapping: LIMIT LIMIT OF SAFETY ZONE Element type: Symbol	Survey/Mapping: LITSV1 FLOATING LIGHT Element type: Symbol
		
Survey/Mapping: LITSV2 FLOATING LIGHT Element type: Symbol	Survey/Mapping: LOOKTR LOOKOUT STATION WATCH Element type: Symbol	Survey/Mapping: LTART ARTICULATED LIGHT Element type: Symbol

		
Survey/Mapping: LTBEAC LIGHTED BEACON Element type: Symbol	Survey/Mapping: LTBY LIGHTED BUOY Element type: Symbol	Survey/Mapping: LTBYBB LIGHTED BARREL BUOY BLACK Element type: Symbol
		
Survey/Mapping: LTFLD FLOODLIGHT Element type: Symbol	Survey/Mapping: LTFLT LIGHT FLOAT Element type: Symbol	Survey/Mapping: LTFLT1 LIGHT FLOAT IALA Element type: Symbol
		
Survey/Mapping: LTFLT2 LIGHT FLOAT IALA Element type: Symbol	Survey/Mapping: LTHOU1 LIGHTHOUSE Element type: Symbol	Survey/Mapping: LTHOU2 LIGHTHOUSE Element type: Symbol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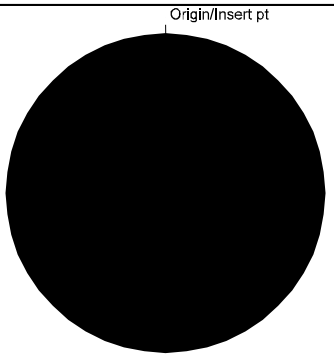
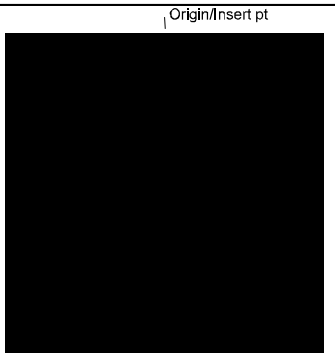
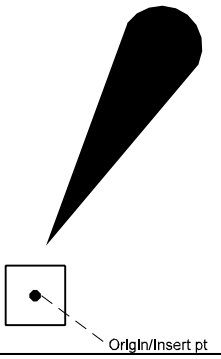
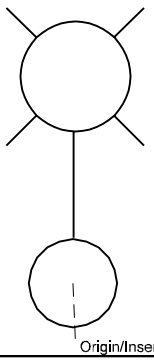
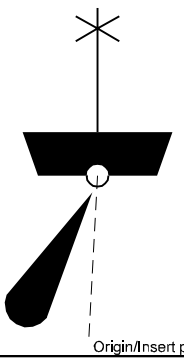
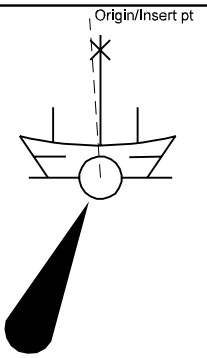
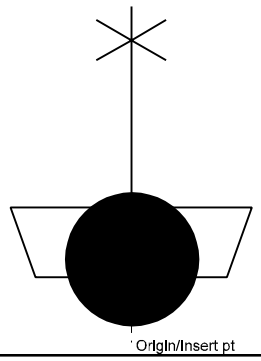
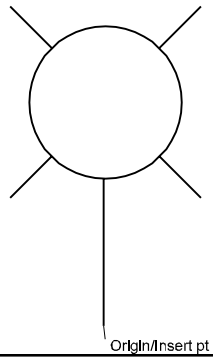
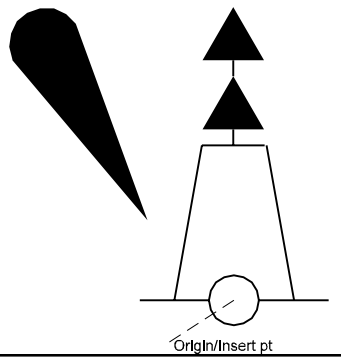
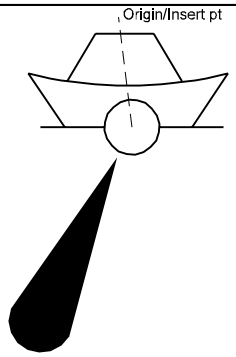
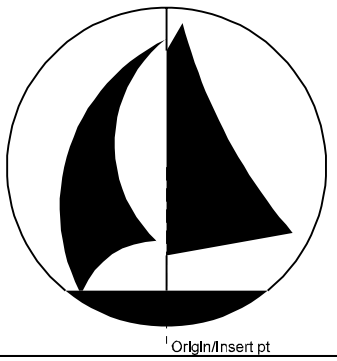
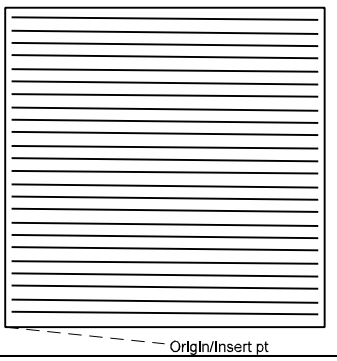
		
Survey/Mapping: LTMIN2 MINOR FLOATING LIGHT Element type: Symbol	Survey/Mapping: LTPLT1 LIGHTED PLATFORM Element type: Symbol	Survey/Mapping: LTPLT2 LIGHTED PLATFORM Element type: Symbol
		
Survey/Mapping: LTPLX LIGHT POLE_EXISTING Element type: Symbol	Survey/Mapping: LTSHP1 LIGHTED VESSEL LIGHTSHIP Element type: Symbol	Survey/Mapping: LTSHP2 LIGHTED VESSEL LIGHTSHIP Element type: Symbol

		
Survey/Mapping: LTSHP3 LIGHTED VESSEL LIGHTSHIP Element type: Symbol	Survey/Mapping: LTSTRX STREET LITE BRACKET_EXIST Element type: Symbol	Survey/Mapping: LTTOW2 LIGHTED BEACON TOWER Element type: Symbol
		
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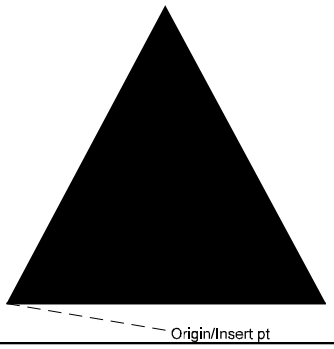	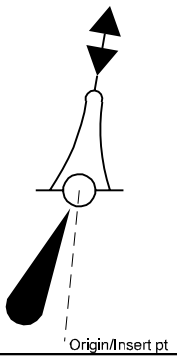	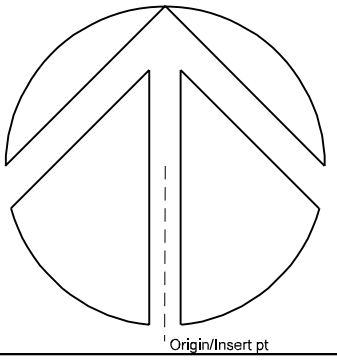
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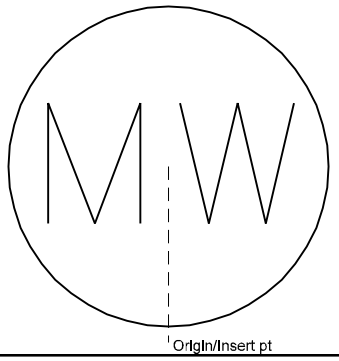	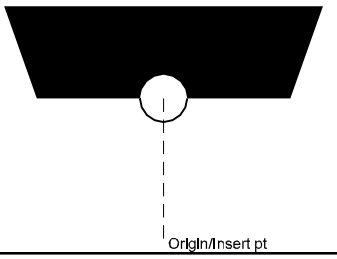	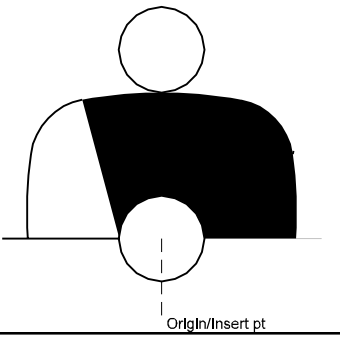
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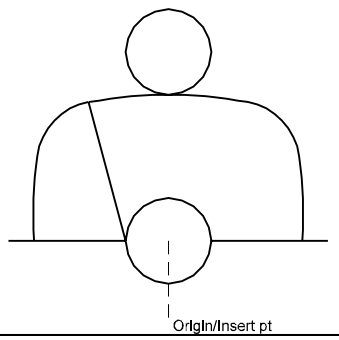	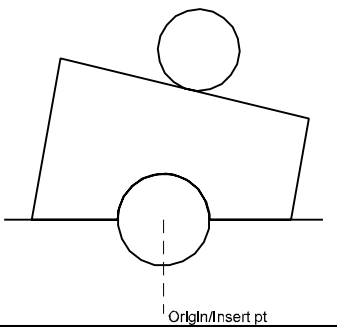	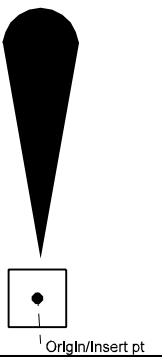
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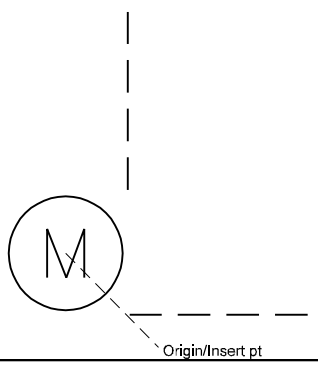	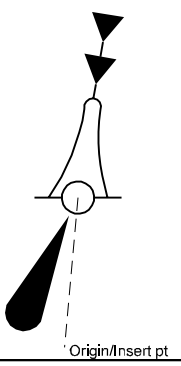	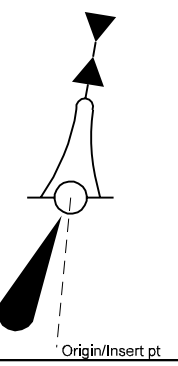
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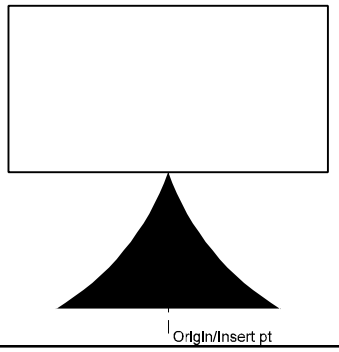	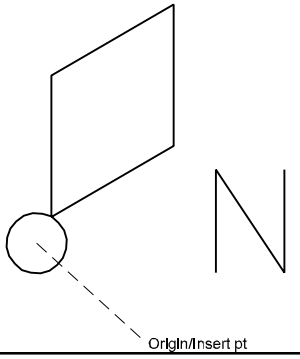	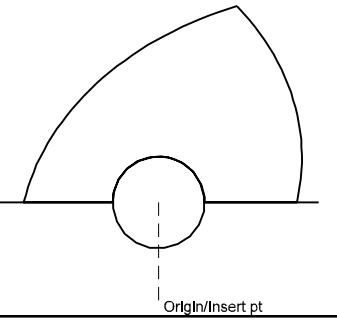
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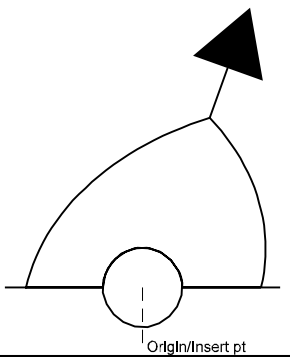	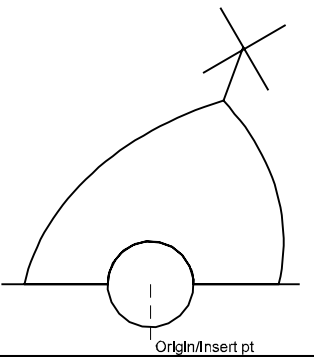	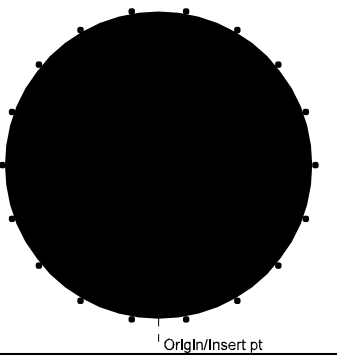
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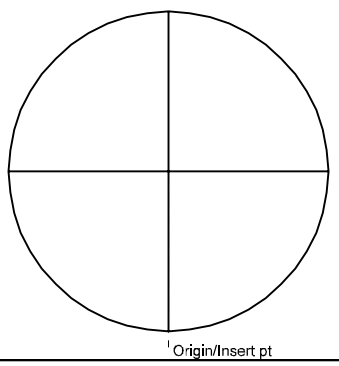	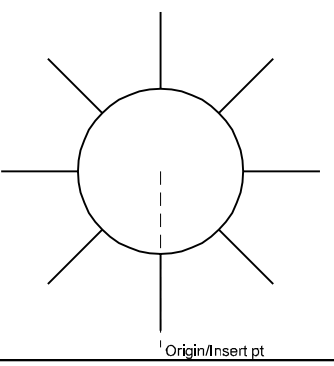	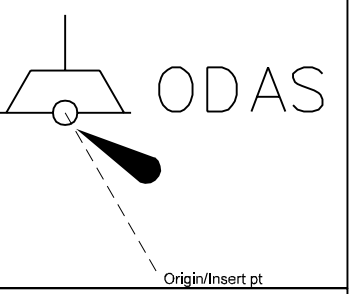
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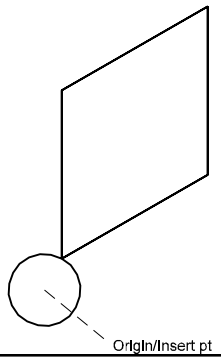	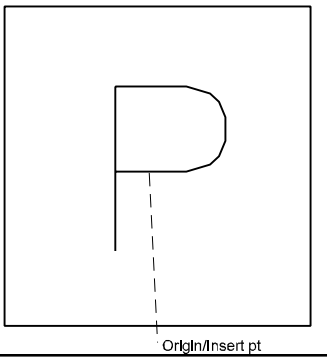	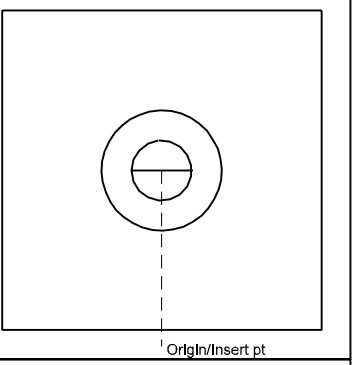
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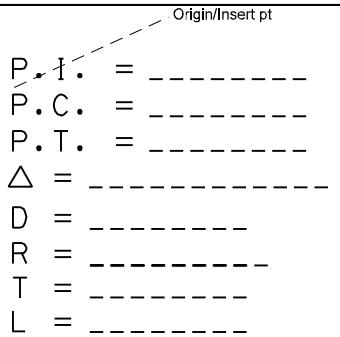
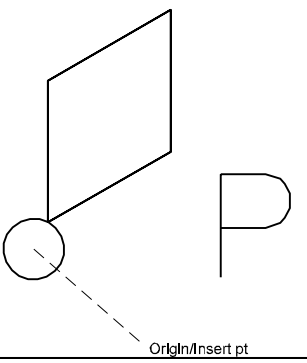
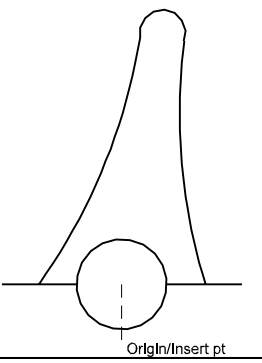
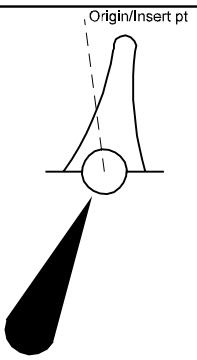
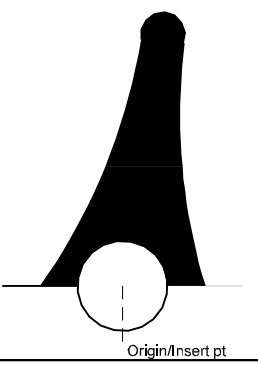
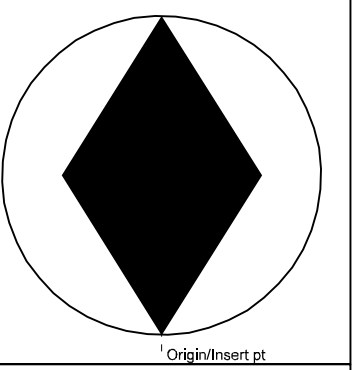
		
Survey/Mapping: PIINFO PI INFORMATION Element type: Symbol	Survey/Mapping: PIL1 PILLAR BUOY Element type: Symbol	Survey/Mapping: PIL2 PILLAR BUOY Element type: Symbol
		
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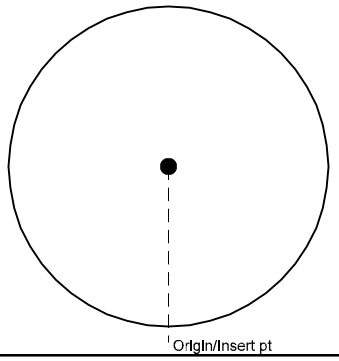	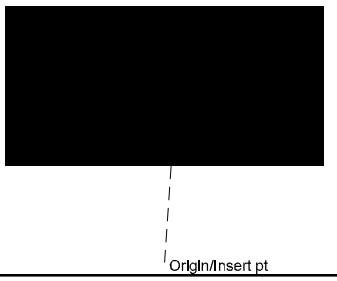	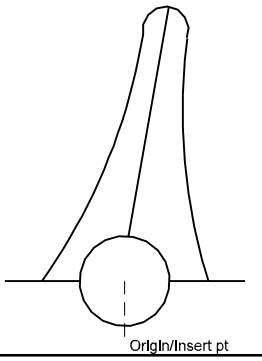
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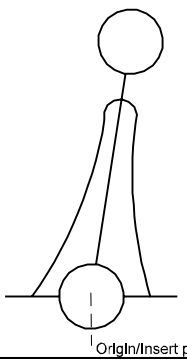
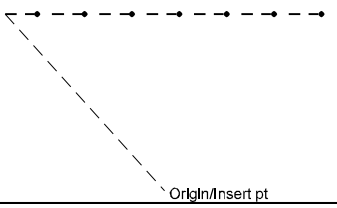
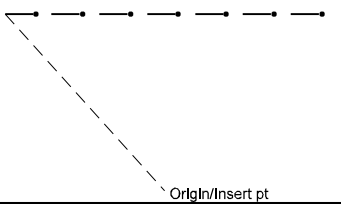
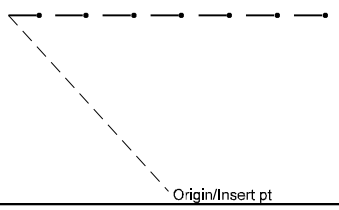
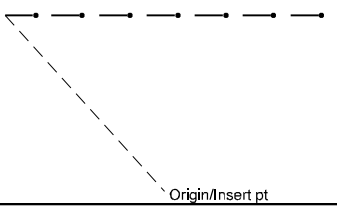
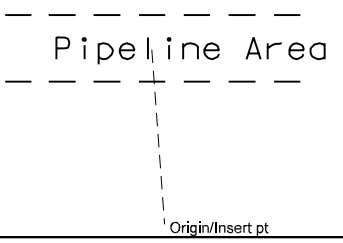
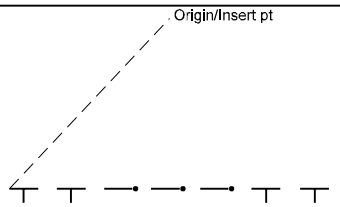
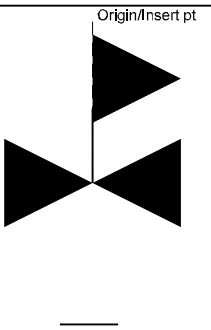
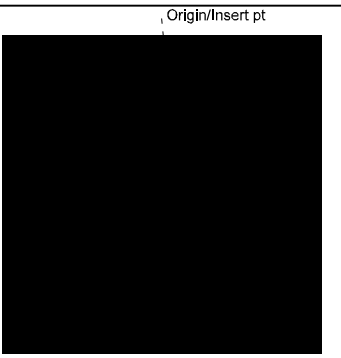
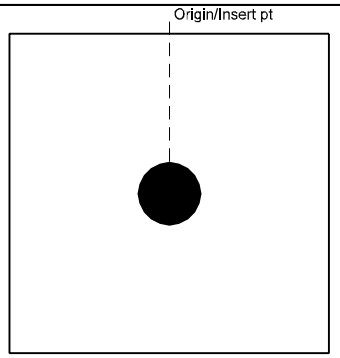
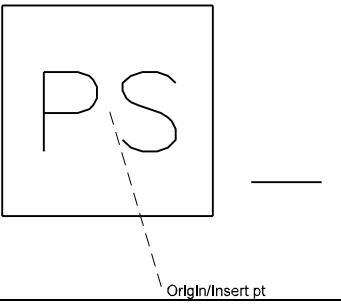
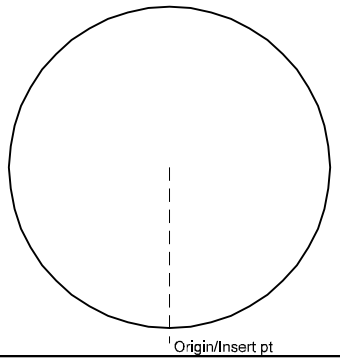
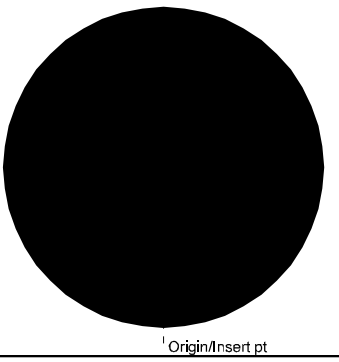
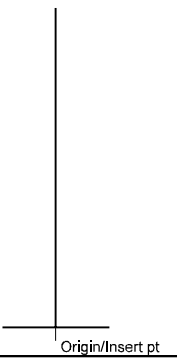
		
Survey/Mapping: PILVT V STRP PILLAR BUOY W TOPMK Element type: Symbol	Survey/Mapping: PIPDIS DISUSED PIPELINE PIPE Element type: Symbol	Survey/Mapping: PIPE WATER SEWER OUTFALL INTAKE Element type: Symbol
		
Survey/Mapping: PIPE1 OIL GAS PIPELINE Element type: Symbol	Survey/Mapping: PIPE2 OIL GAS PIPELINE Element type: Symbol	Survey/Mapping: PIPES1 OIL GAS PIPELINE AREA Element type: Symbol

		
Survey/Mapping: PIPES2 OIL GAS PIPELINE AREA Element type: Symbol	Survey/Mapping: PIVALV POST INDICATOR VALVE Element type: Symbol	Survey/Mapping: PLAT1 PROD PLATFORM OIL DERRICK Element type: Symbol
		
Survey/Mapping: PLAT2 PROD PLATFORM OIL DERRICK Element type: Symbol	Survey/Mapping: PLAT3 PROD PLATFORM OIL DERRICK Element type: Symbol	Survey/Mapping: PMPSTA PUMP STATION Element type: Symbol
		
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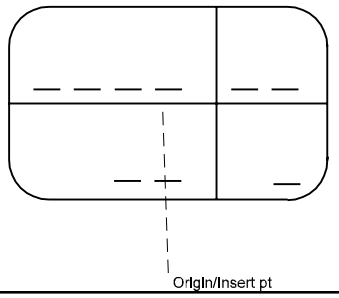
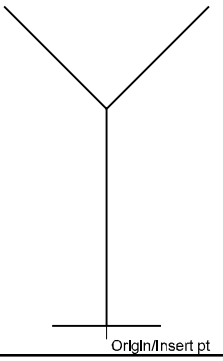
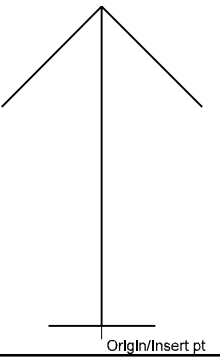
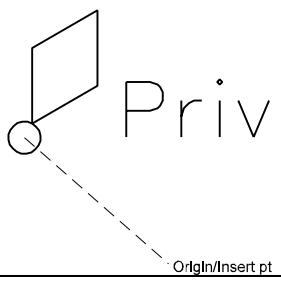
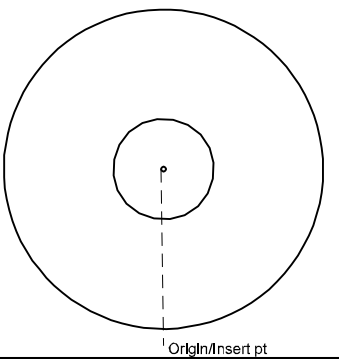
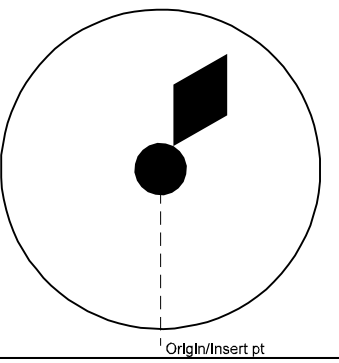
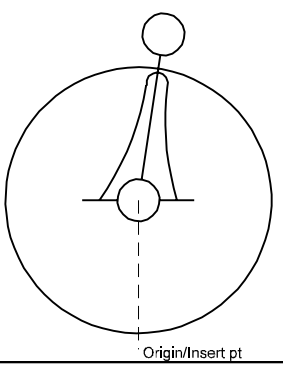
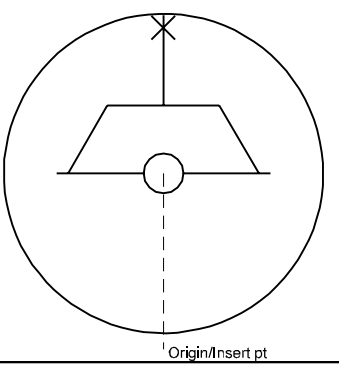
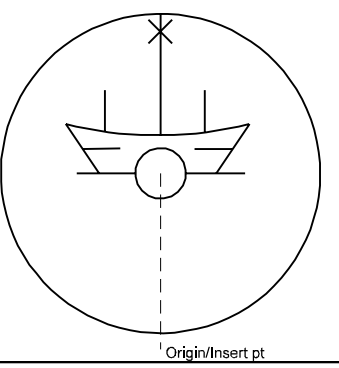
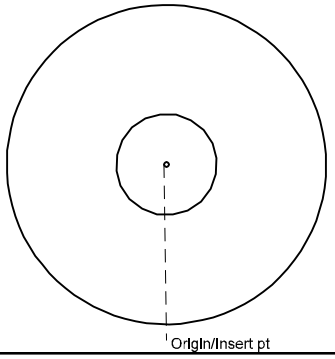
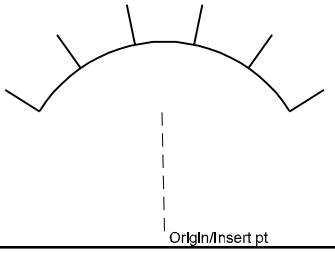
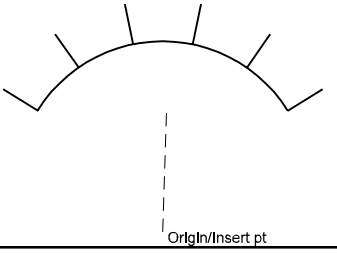
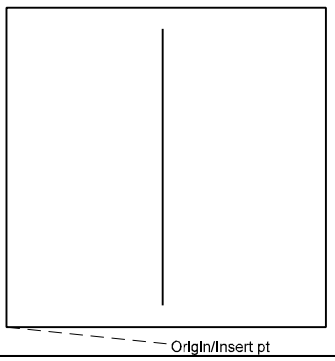
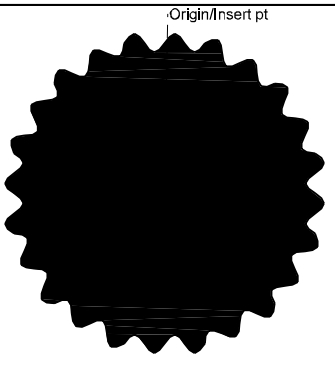
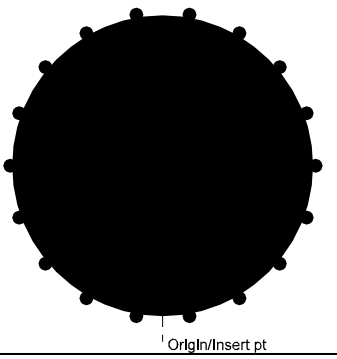
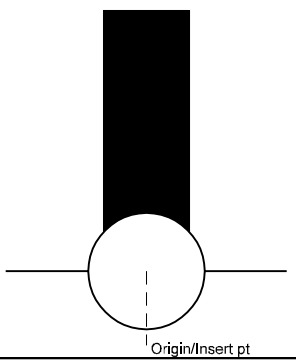
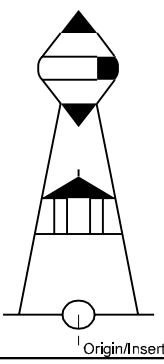
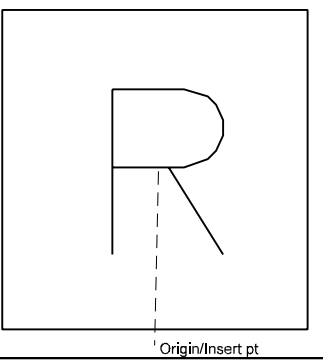
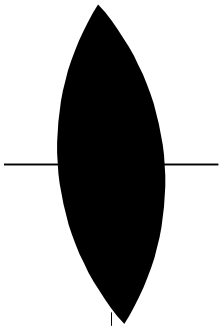
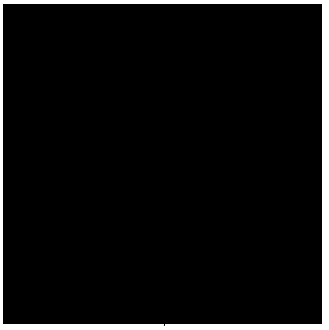
		
Survey/Mapping: POLEID POLE IDENT. SYMBOL Element type: Symbol	Survey/Mapping: POLEP PORT HAND STAKE POLE Element type: Symbol	Survey/Mapping: POLES STARBOARD HAND POLE STAKE Element type: Symbol
		
Survey/Mapping: PRIVB PRIVATE BARREL BUOY Element type: Symbol	Survey/Mapping: RADAR RADAR STATION OR BEACON Element type: Symbol	Survey/Mapping: RADAR1 FLOATING RADAR BEACON Element type: Symbol
		
Survey/Mapping: RADAR2 FLOATING RADAR BEACON Element type: Symbol	Survey/Mapping: RADAR3 FLOATING RADAR BEACON Element type: Symbol	Survey/Mapping: RADAR4 FLOATING RADAR BEACON Element type: Symbol

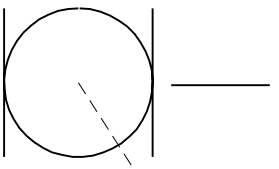
		
Survey/Mapping: RADIO RADIO BEACON GENERAL Element type: Symbol	Survey/Mapping: RADRF1 RADAR REFLECTOR OR FEATURE Element type: Symbol	Survey/Mapping: RADRF2 RADAR REFLECTOR OR FEATURE Element type: Symbol
		
Survey/Mapping: RANGEX RANGE EXTENSION Element type: Symbol	Survey/Mapping: REEF CORAL REEF LARGE ICON Element type: Symbol	Survey/Mapping: REEF1 CORAL REEF SMALL ICON Element type: Symbol
		
Survey/Mapping: REFUG1 REFUGE BEACON Element type: Symbol	Survey/Mapping: REFUG2 REFUGE BEACON Element type: Symbol	Survey/Mapping: REIL REIL LIGHT UNIT Element type: Symbol



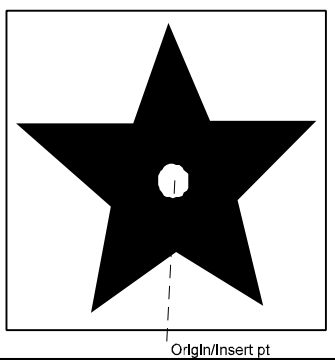
Survey/Mapping: RESCUE
RESCUE STATION
Element type: Symbol



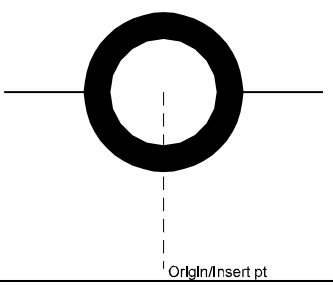
Survey/Mapping: RESPLT
OBS RESEARCH PLATFORM
Element type: Symbol



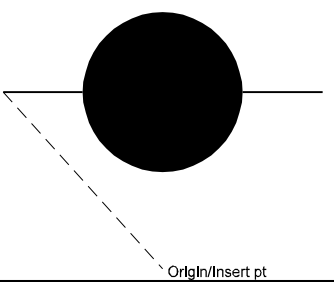
Survey/Mapping: RGVALV
REGULATOR VALVE
Element type: Symbol



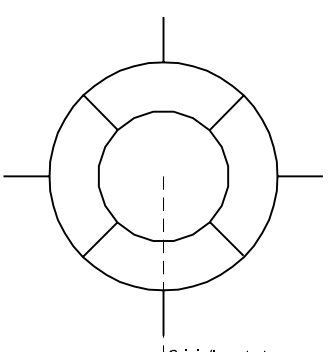
Survey/Mapping: RSTAR
RANGE STAR
Element type: Symbol



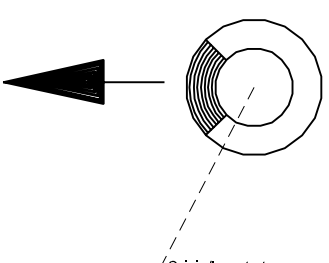
Survey/Mapping: RVMMOP
OPEN RIVER MILE MARKER
Element type: Symbol



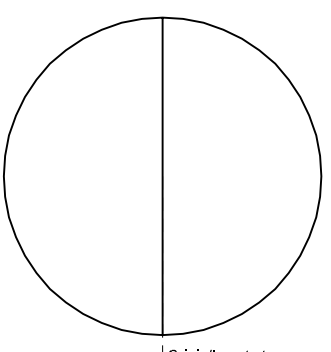
Survey/Mapping: RVMMSO
SOLID RIVER MILE MARKER
Element type: Symbol



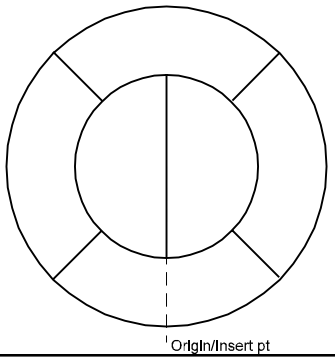
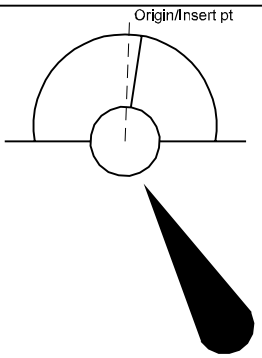
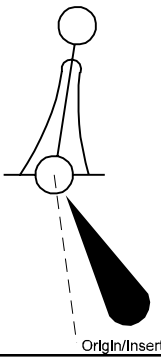
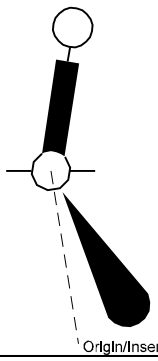
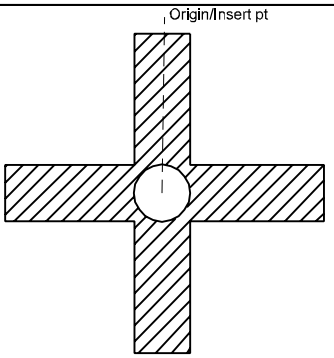
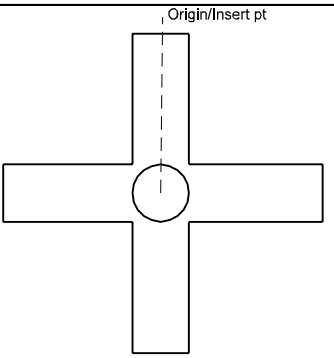
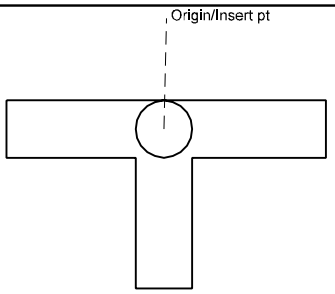
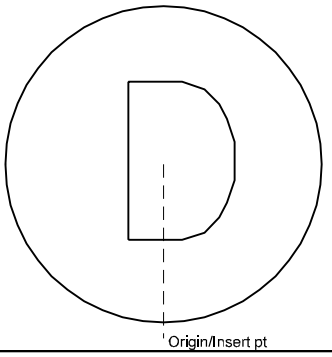
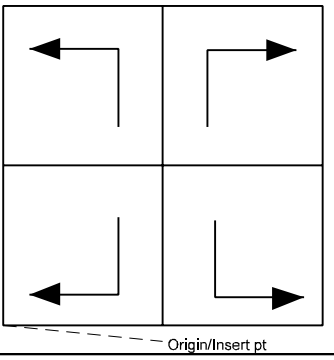
Survey/Mapping: RWCLL
RW CENTERLINE LIGHT
Element type: Symbol

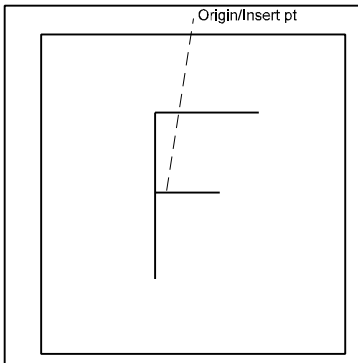


Survey/Mapping: RWEL
RW END LIGHT
Element type: Symbol

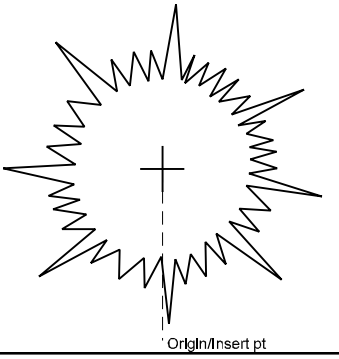


Survey/Mapping: RWLEL
RW EDGE LIGHT_ELEVATED
Element type: Symbol

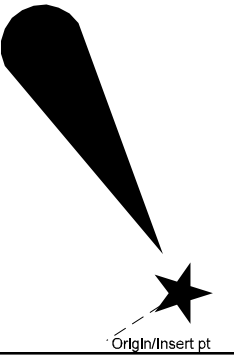
		
Survey/Mapping: RWLSF RW EDGE LIGHT_SEMIFLUSH Element type: Symbol	Survey/Mapping: SAFE1 LIGHTED SAFE WATER MARK Element type: Symbol	Survey/Mapping: SAFE2 LIGHTED SAFE WATER MARK Element type: Symbol
		
Survey/Mapping: SAFE3 LIGHTED SAFE WATER MARK Element type: Symbol	Survey/Mapping: SCNRH SECTION CORNER HATCHED Element type: Symbol	Survey/Mapping: SCNRO SECTION CORNER OPEN Element type: Symbol
		
Survey/Mapping: SCNRTO SECTION CORNER T OPEN Element type: Symbol	Survey/Mapping: SDMHOL STORM DRAINAGE MANHOLE Element type: Symbol	Survey/Mapping: SECCUT TYPICAL SECTION CUT Element type: Symbol



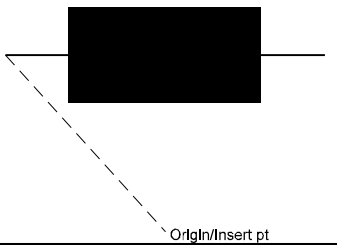
Survey/Mapping: SFL
SEQUENCED FLASHER LIGHT
Element type: Symbol



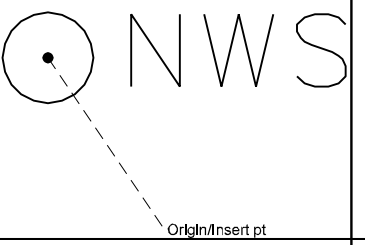
Survey/Mapping: SHRUBC
CONIFEROUS SHRUB
Element type: Symbol



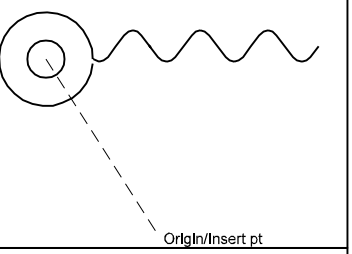
Survey/Mapping: SIGBRG
BRIDGE LIGHT INC TRAFFIC
Element type: Symbol



Survey/Mapping: SIGN
SIGN
Element type: Symbol



Survey/Mapping: SIGNWS
NAT WEATHER SVC STATION
Element type: Symbol



Survey/Mapping: SIGSHO
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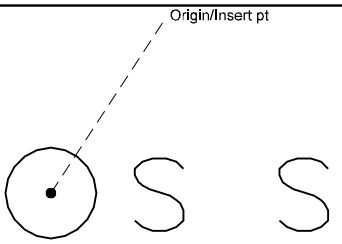
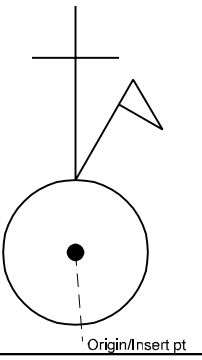
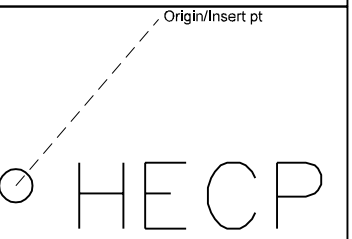
Element type: Symbol



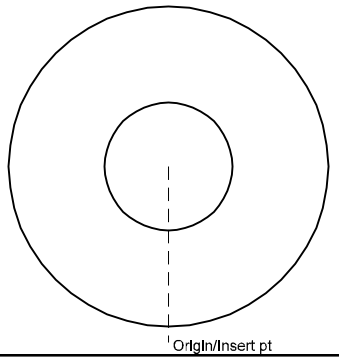
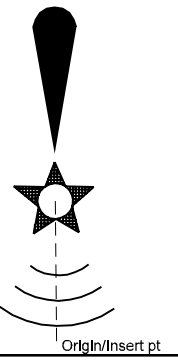
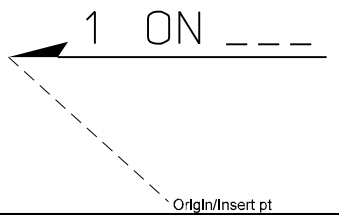
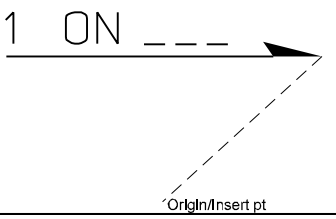
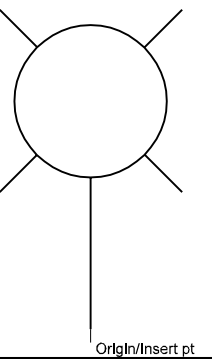
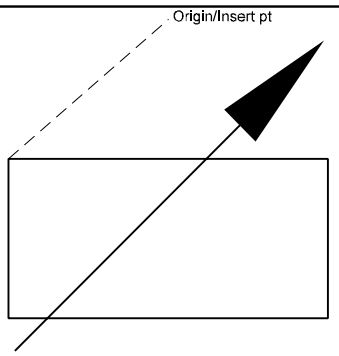
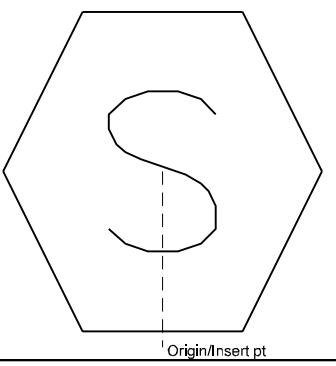
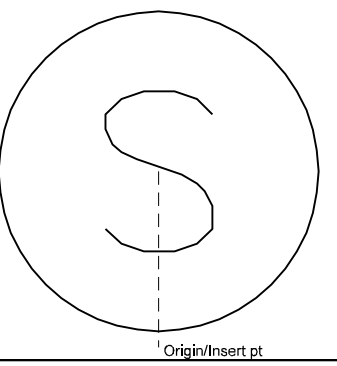
Survey/Mapping: SIGST1
SIGNAL STATION GENERAL
Element type: Symbol



Survey/Mapping: SIGST2
SIGNAL STATION GENERAL
Element type: Symbol



Survey/Mapping: SIGSTP
PORT CONTROL SIGNAL STATION
Element type: Symbol

		
Survey/Mapping: SIGSUB SUBMARINE SIGNAL Element type: Symbol	Survey/Mapping: SIRLH1 SIREN AT LIGHTHOUSE Element type: Symbol	Survey/Mapping: SIRLH2 SIREN AT LIGHTHOUSE Element type: Symbol
		
Survey/Mapping: SLARRL SLOPE AR W ENTER DATA FIELD Element type: Symbol	Survey/Mapping: SLARRR SLOPE AR W ENTER DATA FIELD Element type: Symbol	Survey/Mapping: SLLX STREETLITE LUMINAIRE_EXIST Element type: Symbol
		
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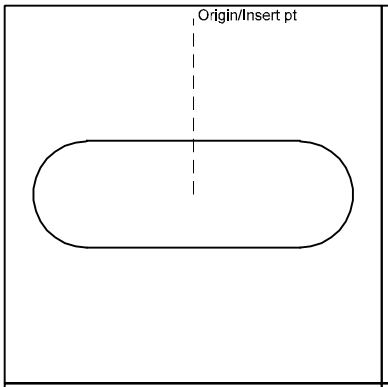
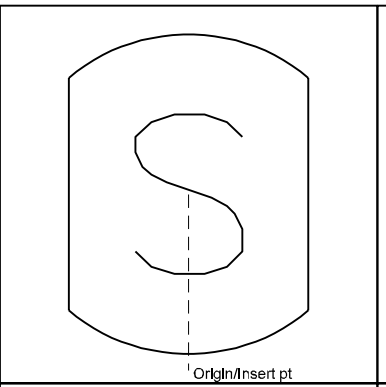
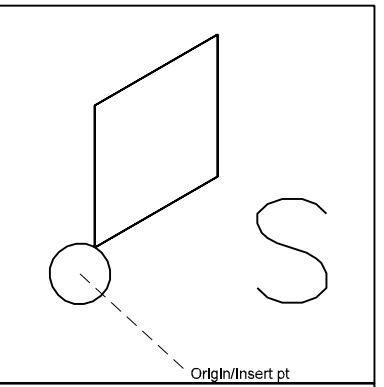
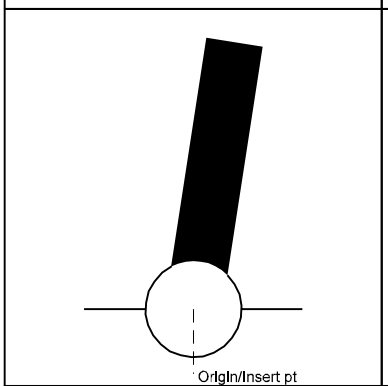
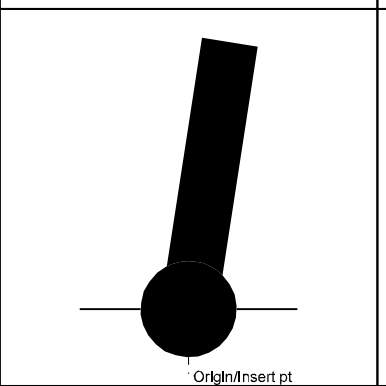
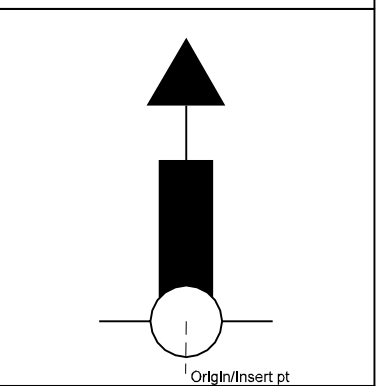
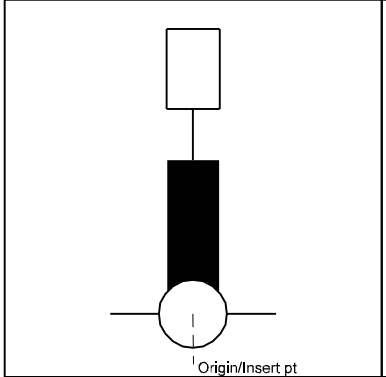
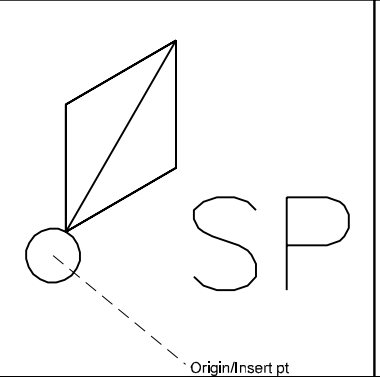
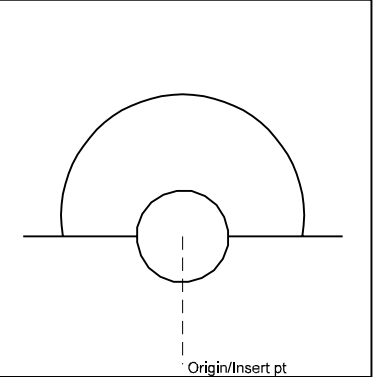
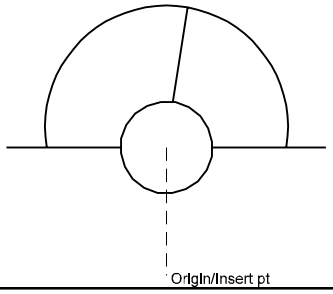
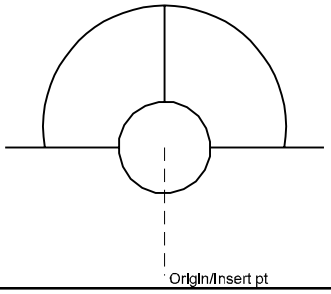
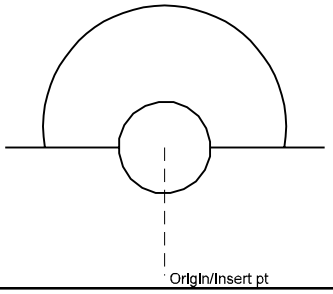
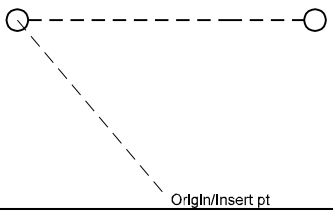
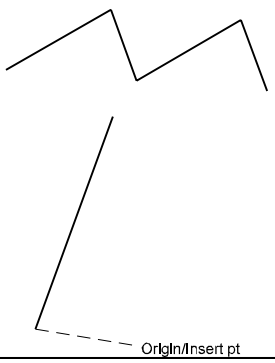
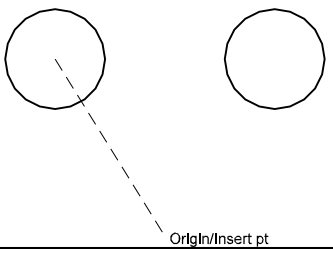
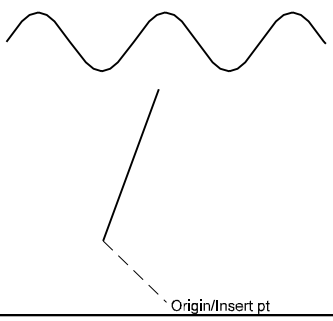
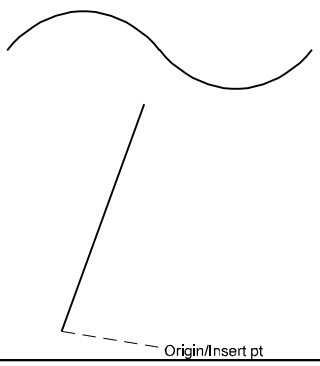
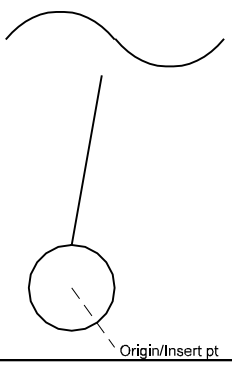
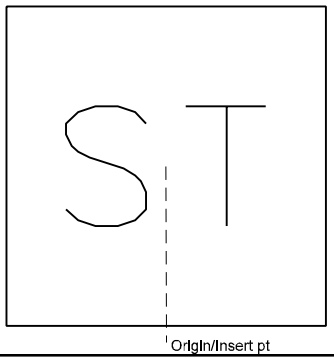
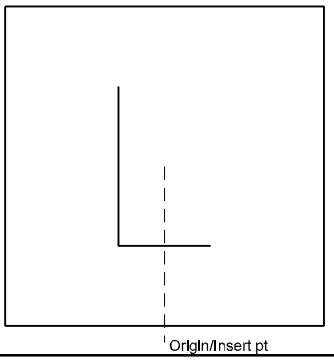
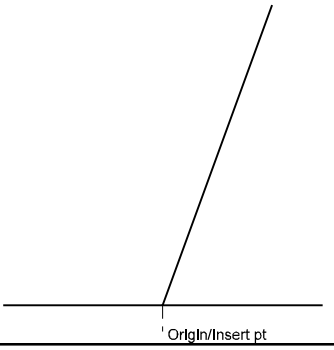
		
Survey/Mapping: SNPVSL SANITARY PRESSURE VESSEL Element type: Symbol	Survey/Mapping: SNVALT SANITARY VALVE VAULT Element type: Symbol	Survey/Mapping: SPAR1 SPAR BUOY SPINDLE BUOY Element type: Symbol
		
Survey/Mapping: SPAR2 SPAR BUOY SPINDLE BUOY Element type: Symbol	Survey/Mapping: SPARB BLACK SPARBUOY Element type: Symbol	Survey/Mapping: SPARBT BLACK SPAR BUOY W TOPMARK Element type: Symbol
		
Survey/Mapping: SPARWT WHITE SPAR BUOY W TOP Element type: Symbol	Survey/Mapping: SPH1 SPHERICAL BUOY Element type: Symbol	Survey/Mapping: SPH2 SPHERICAL BUOY Element type: Symbol

		
Survey/Mapping: SPHD DIAG STRIPE SPHER BUOY Element type: Symbol	Survey/Mapping: SPHV VERT STRIPE SPHER BUOY Element type: Symbol	Survey/Mapping: SPHW WHITE SHERICAL BUOY Element type: Symbol
		
Survey/Mapping: SPILE SUBMERGED PILING Element type: Symbol	Survey/Mapping: SPILE1 SUBMERGED PILES Element type: Symbol	Survey/Mapping: SPILES SUBMERGED PILES Element type: Symbol
		
Survey/Mapping: SPILEX SUBMERGED PILE W POSITION Element type: Symbol	Survey/Mapping: SPOST SUBMERGED POST Element type: Symbol	Survey/Mapping: SPOSTX SUBMERGED POST W POSITION Element type: Symbol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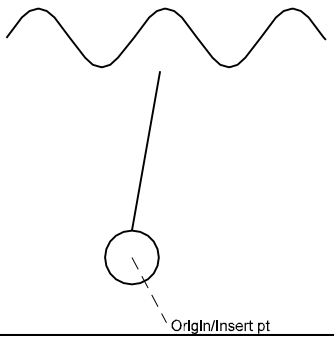
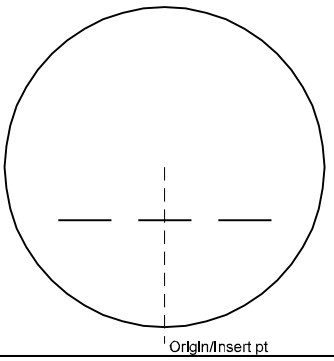
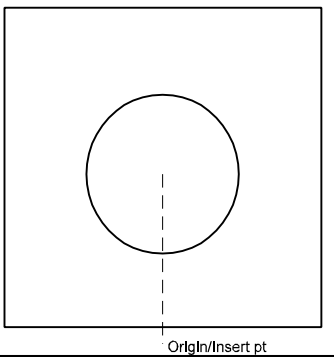
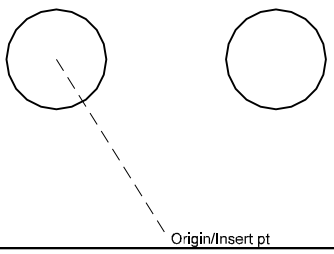
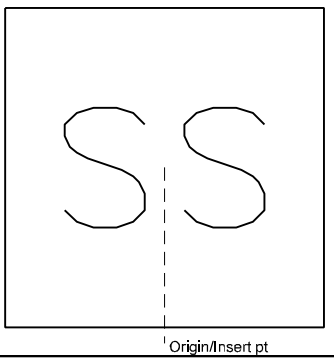
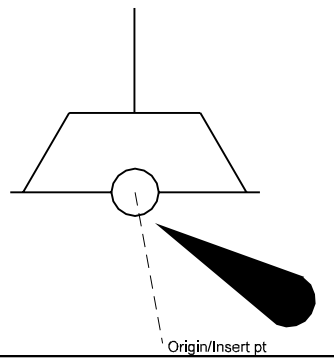
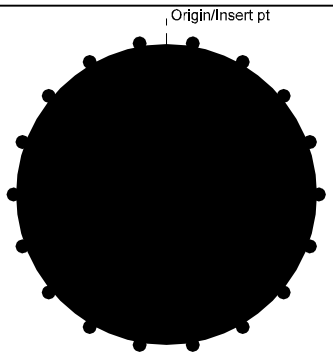
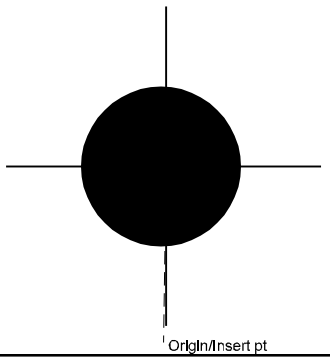
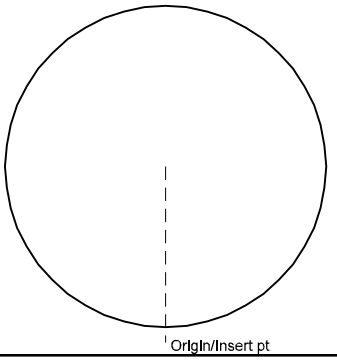
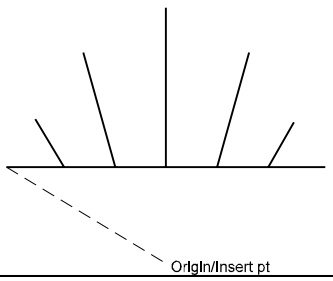
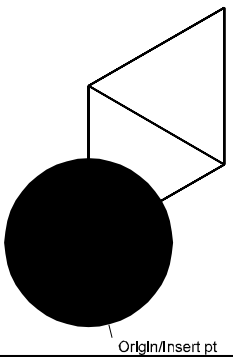
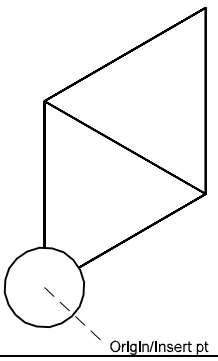
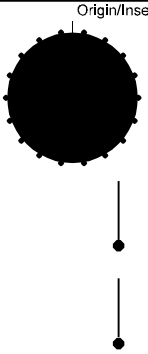
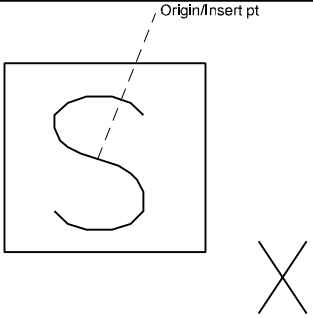
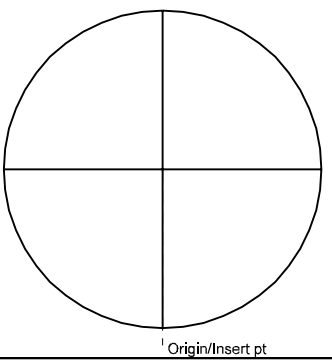
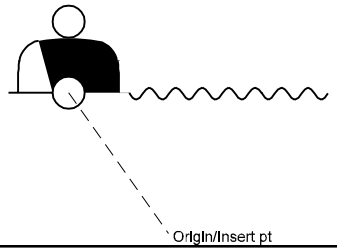
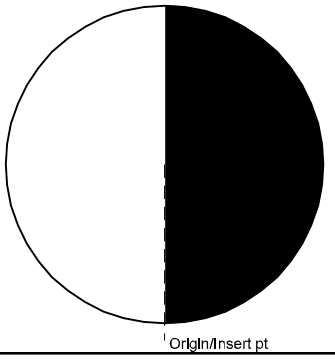
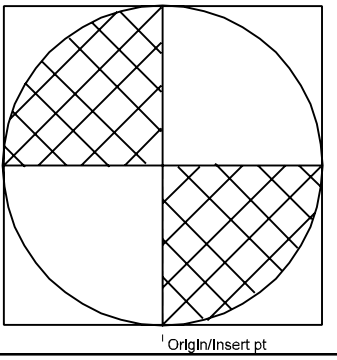
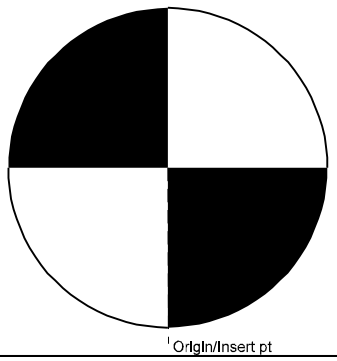
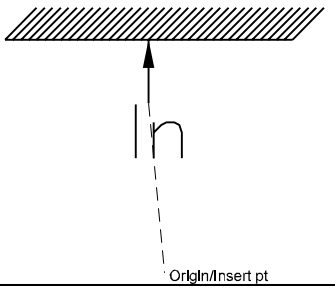
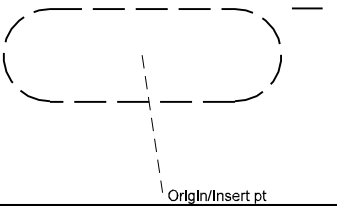
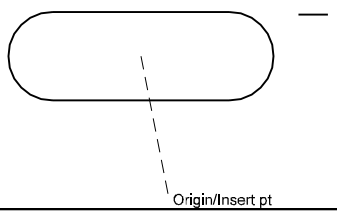
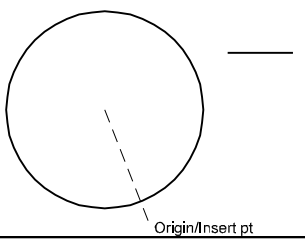
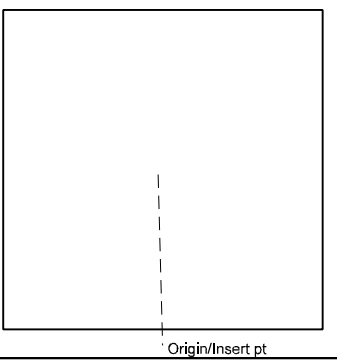
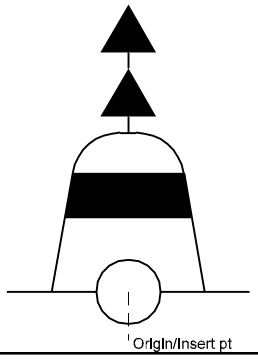
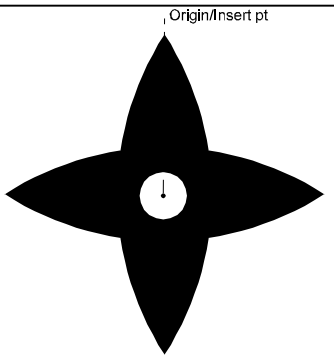
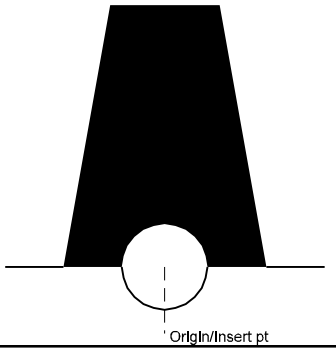
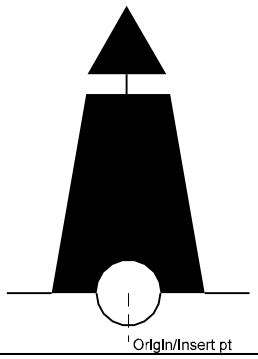
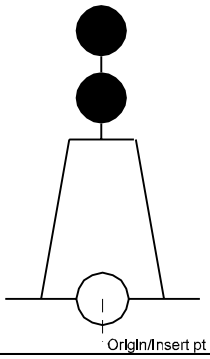
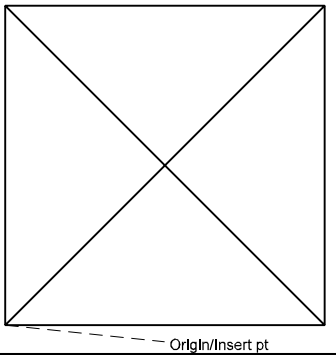
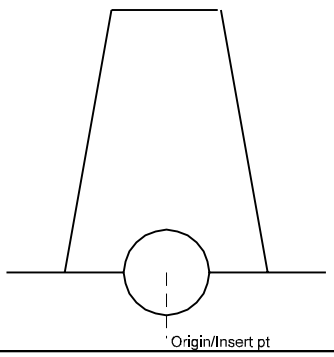
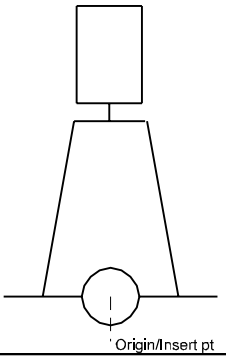
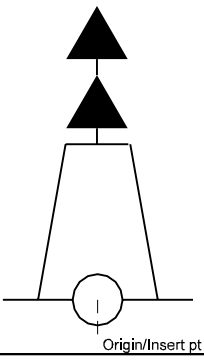
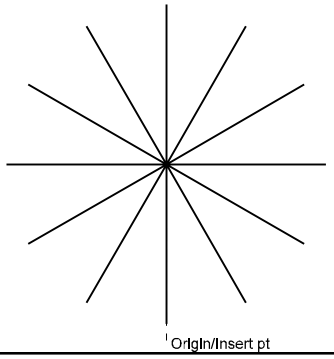
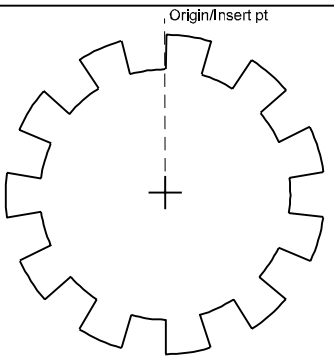
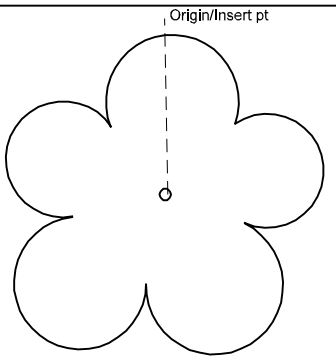
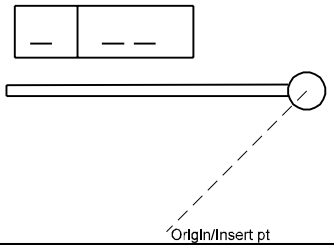
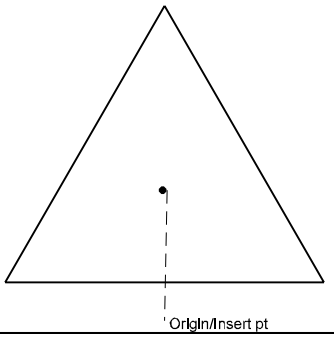
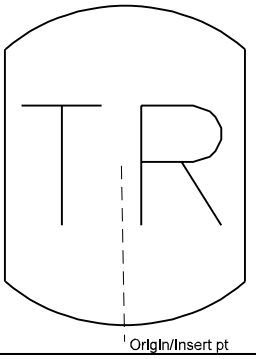
		
Survey/Mapping: STAKEX STAKE WITH POSITION Element type: Symbol	Survey/Mapping: STHWY STATE HIGHWAY SYMBOL Element type: Symbol	Survey/Mapping: STMPIT STEAM PIT Element type: Symbol
		
Survey/Mapping: STUMPS SUBMERGED STUMPS Element type: Symbol	Survey/Mapping: SUBSTA SUBSTATION Element type: Symbol	Survey/Mapping: SUPER SUPER BUOY Element type: Symbol

		
Survey/Mapping: SUWEL2 SUSPENDED WELL DEPTH UNKWN Element type: Symbol	Survey/Mapping: SUWEL3 SUSPENDED WELL DEPTH UNKWN Element type: Symbol	Survey/Mapping: SUWELY SUSPENDED WELL KNOWN DEPTH Element type: Symbol
		
Survey/Mapping: SWAMP SWAMP Element type: Symbol	Survey/Mapping: SWELB1 SUBMERGED WELL W BUOY Element type: Symbol	Survey/Mapping: SWELB2 SUBMERGED WELL W BUOY Element type: Symbol
		
Survey/Mapping: SWELL5 SUBMERGED PROD WELL Element type: Symbol	Survey/Mapping: SWPADX SWITCH_PAD_EXIST Element type: Symbol	Survey/Mapping: TDZL TOUCHDOWN ZONE LIGHT Element type: Symbol

		
Survey/Mapping: TELBBB TELEGRAPHIC BARREL BUOY BLK Element type: Symbol	Survey/Mapping: THL THRESHOLD LIGHT Element type: Symbol	Survey/Mapping: TIDEG TIDE GAGE Element type: Symbol
		
Survey/Mapping: TIDSTF TIDESTAFF Element type: Symbol	Survey/Mapping: TIRETR TIRE TREDDLE Element type: Symbol	Survey/Mapping: TNKBG TANK BELOW GROUND Element type: Symbol
		
Survey/Mapping: TNKHAG TANK HORIZ ABOVE GROUND Element type: Symbol	Survey/Mapping: TNKVAG TANK VERTICAL ABOVE GROUND Element type: Symbol	Survey/Mapping: TOW1 BEACON TOWER Element type: Symbol

		
Survey/Mapping: TOW2 BEACON TOWER Element type: Symbol	Survey/Mapping: TOW3 BEACON TOWER Element type: Symbol	Survey/Mapping: TOWB BLACK BEACON TOWER Element type: Symbol
		
Survey/Mapping: TOWBT1 BLACK BEACON TOWER W TOP Element type: Symbol	Survey/Mapping: TOWBT2 BLACK BEACON TOWER W TOP Element type: Symbol	Survey/Mapping: TOWER TRANSMISSION TOWER Element type: Symbol
		
Survey/Mapping: TOWW WHITE BEACON TOWER Element type: Symbol	Survey/Mapping: TOWWT1 WHITE BEACON TOWER W TOP Element type: Symbol	Survey/Mapping: TOWWT2 WHITE BEACON TOWER W T Element type: Symbol

		
Survey/Mapping: TREEC CONIFEROUS TREE Element type: Symbol	Survey/Mapping: TREED DECIDUOUS TREE Element type: Symbol	Survey/Mapping: TREEG GENERIC TREE Element type: Symbol
		
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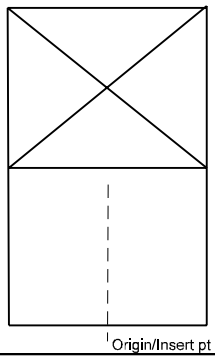	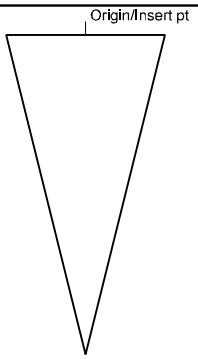	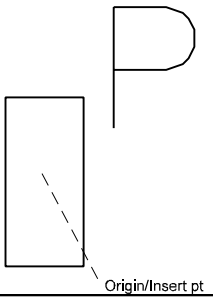
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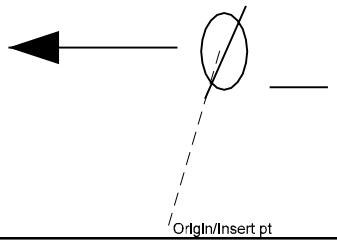
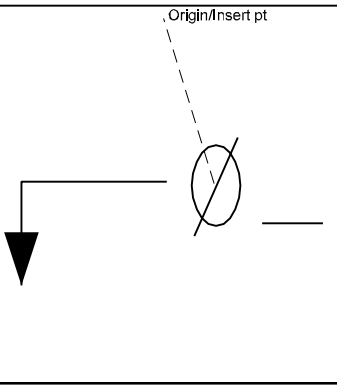
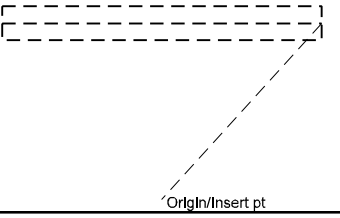
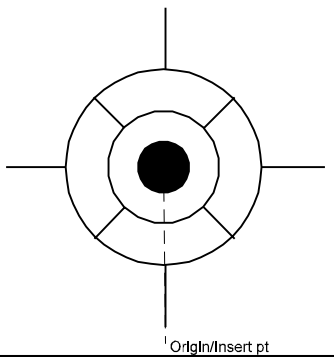
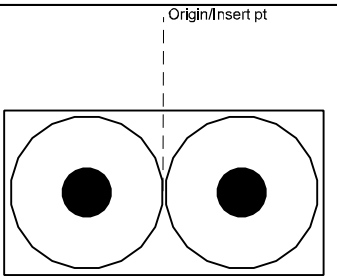
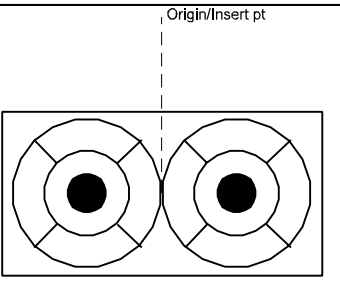
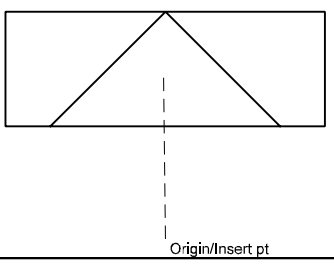
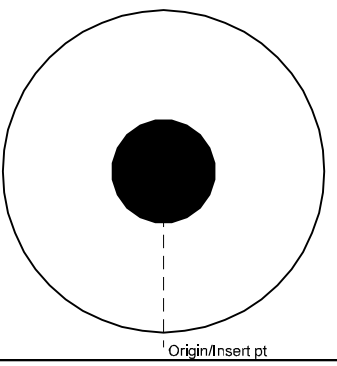
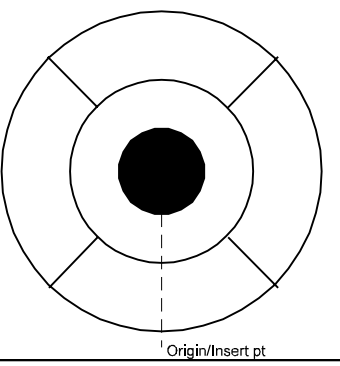
		
Survey/Mapping: TSPHS TR SIGNAL PH NO_THRU Element type: Symbol	Survey/Mapping: TSPHT TR SIGNAL PH NO_TURN Element type: Symbol	Survey/Mapping: TSVLDT TR SIGNAL VEH LOOP DETECTOR Element type: Symbol
		
Survey/Mapping: TWCLL TW CENTERLINE LIGHT Element type: Symbol	Survey/Mapping: TWELEL TW END LIGHT_ELEVATED Element type: Symbol	Survey/Mapping: TWELSF TW END LIGHT_SEMIFLUSH Element type: Symbol
		
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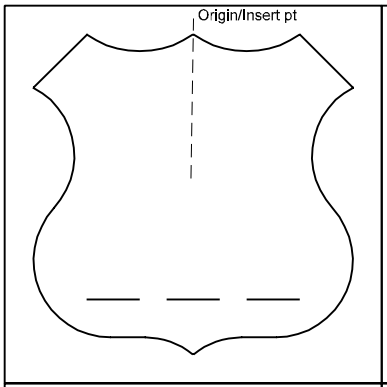
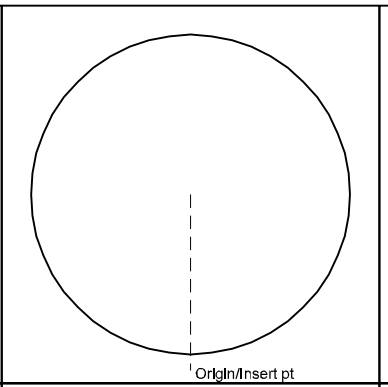
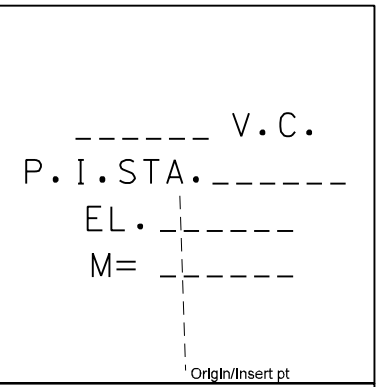
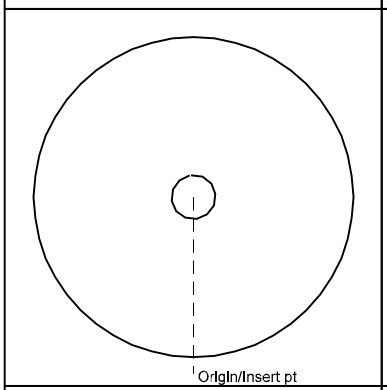
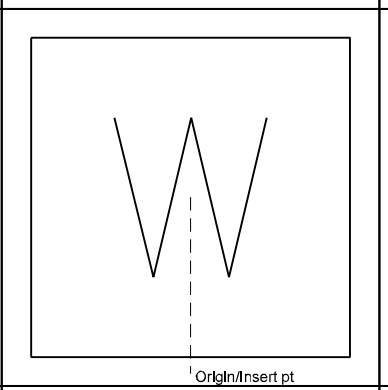
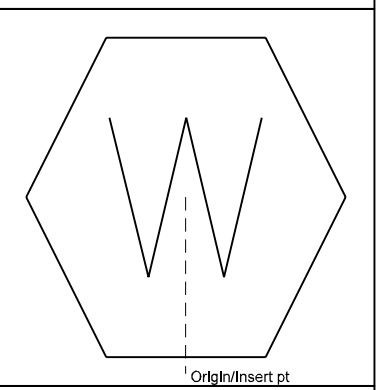
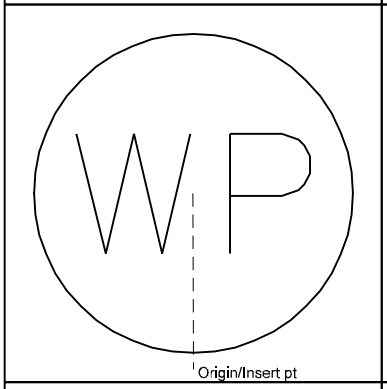
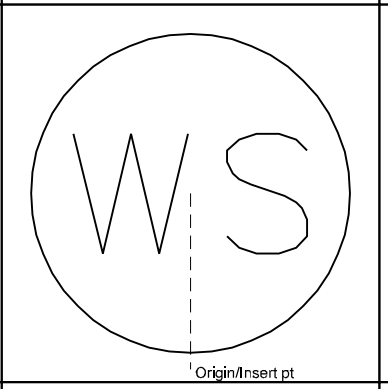
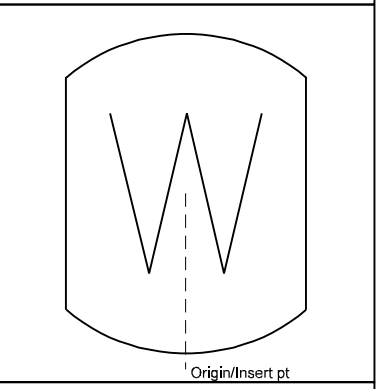
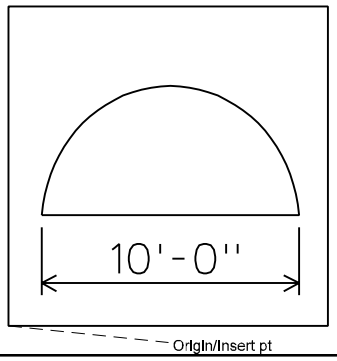
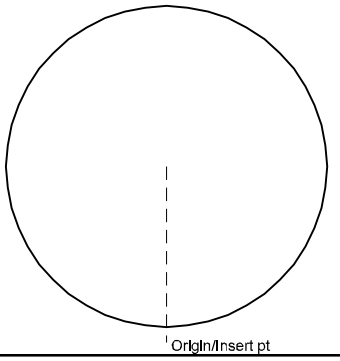
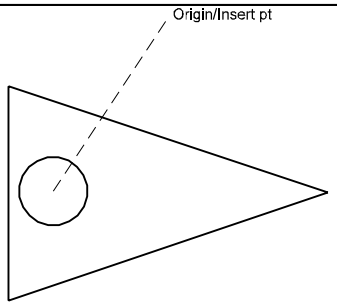
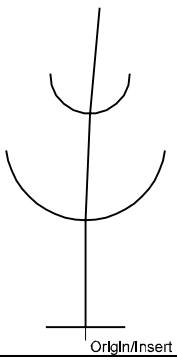
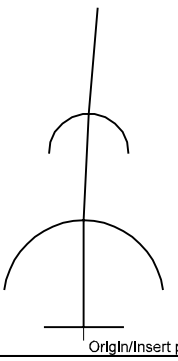
		
Survey/Mapping: USHWY US HIGHWAY SYMBOL Element type: Symbol	Survey/Mapping: UTPLX POLE_EXISTING Element type: Symbol	Survey/Mapping: VCDATA VERTICAL CURVE DATA Element type: Symbol
		
Survey/Mapping: VERCPT VERTICAL CONTROL POINT Element type: Symbol	Survey/Mapping: WAHHOL WATER HANDHOLE Element type: Symbol	Survey/Mapping: WAMETR WATER METER Element type: Symbol
		
Survey/Mapping: WAPLNT WATER PLANT Element type: Symbol	Survey/Mapping: WASOFT WATER SOFTENER Element type: Symbol	Survey/Mapping: WAVALT WATER VALVE VAULT Element type: Symbol

		
Survey/Mapping: WEIR WEIR Element type: Symbol	Survey/Mapping: WELL1 ABOVE WATER WELLHEAD Element type: Symbol	Survey/Mapping: WELL3 ABOVE WATER WELLHEAD Element type: Symbol
		
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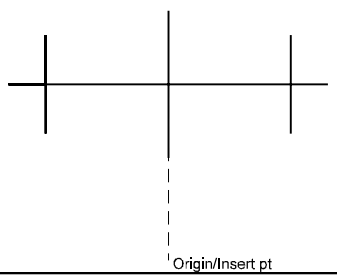
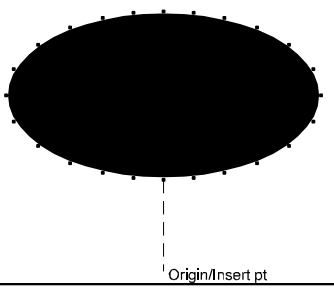
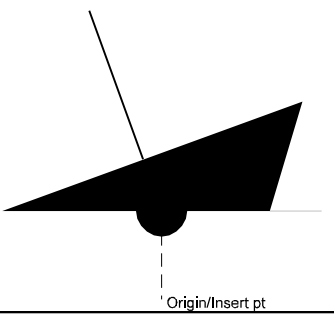
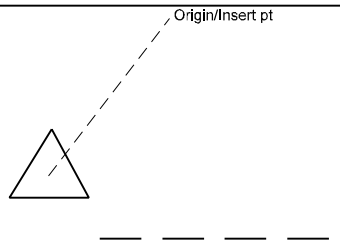
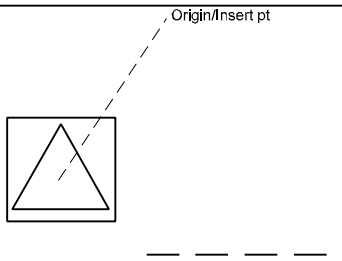
		
Survey/Mapping: WRECK WRECK NOT DANGEROUS Element type: Symbol	Survey/Mapping: WRKDNG DANGER WRECK DEPTH UNKNOWN Element type: Symbol	Survey/Mapping: WRKEXP WRECK PARTLY EXPOSED Element type: Symbol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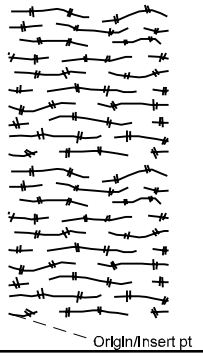
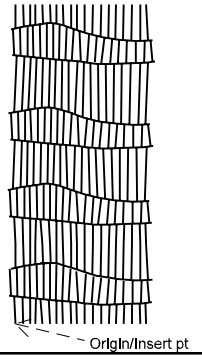
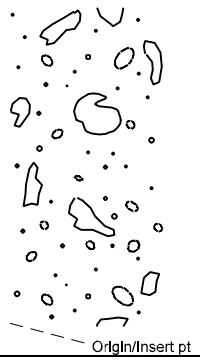
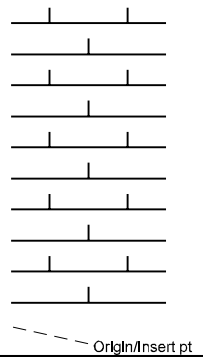
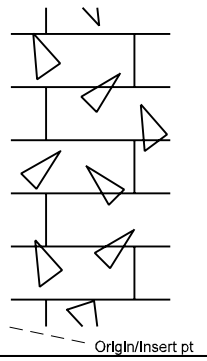
4 Geotechnical Patterns Library

		
Geotechnical: AGGLOM AGGLOMERATE FLOW BRECCIA Element type: Pattern	Geotechnical: ANDES ANDESITE Element type: Pattern	Geotechnical: BASALT BASALT Element type: Pattern
		
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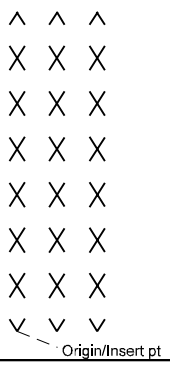	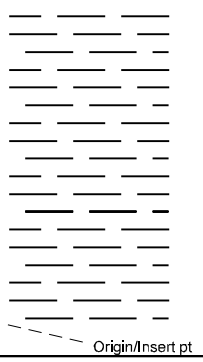	
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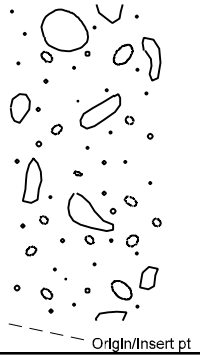		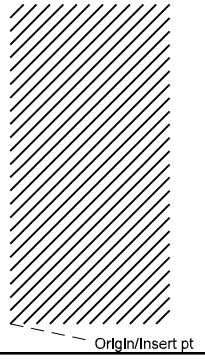
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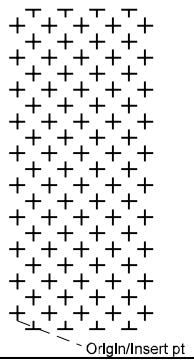	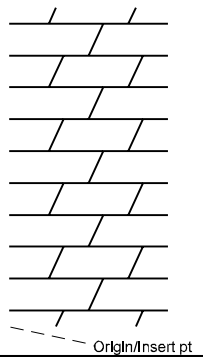	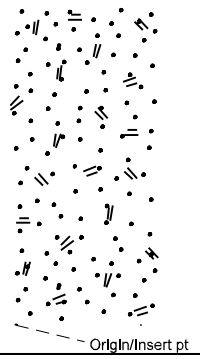
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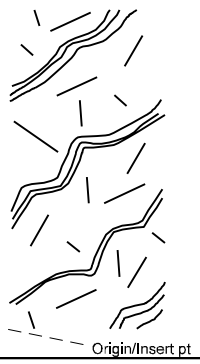	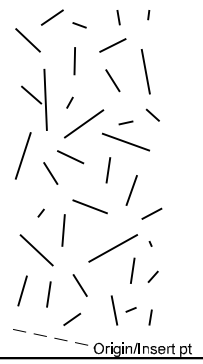	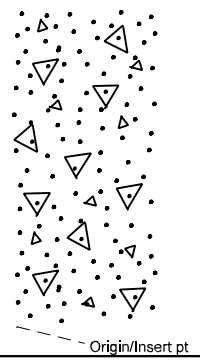
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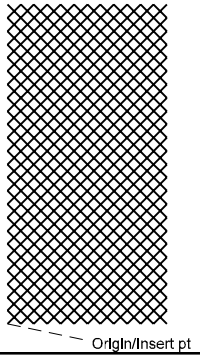	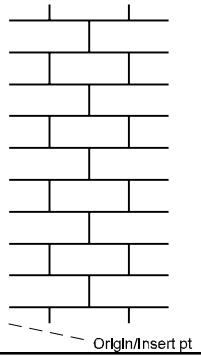	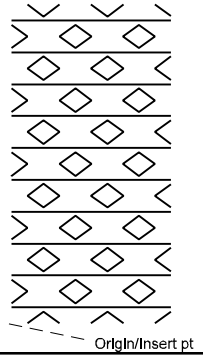
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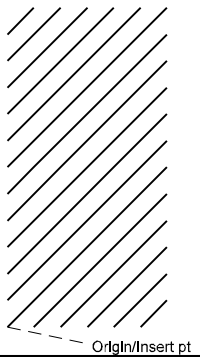
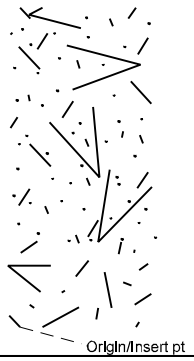
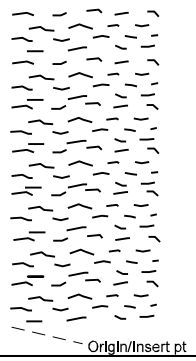
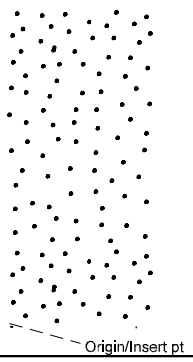
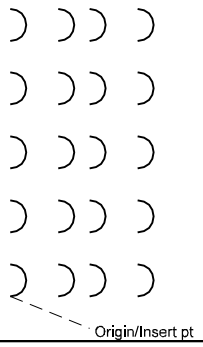
		
Geotechnical: MSJNT MODERATELY SPACED JOINTS Element type: Pattern	Geotechnical: QUARTZ QUARTZITE Element type: Pattern	Geotechnical: RHYOLT RHYOLITE Element type: Pattern
		
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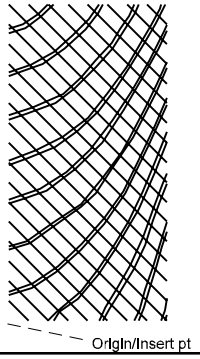	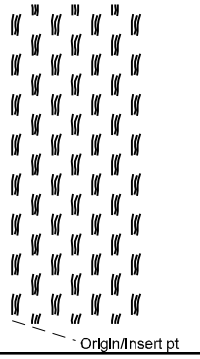	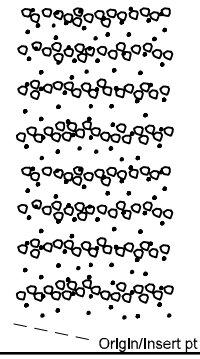
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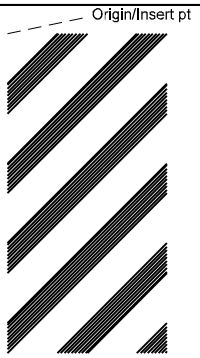
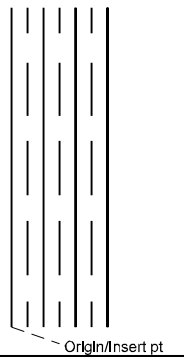
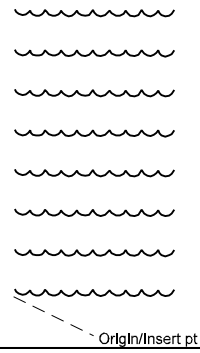
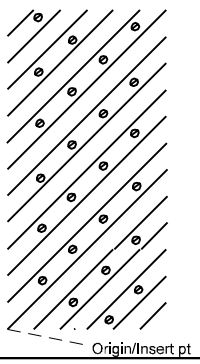
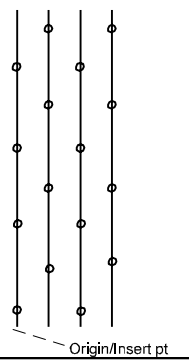
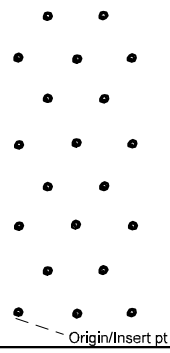
		
Geotechnical:USCS1 USCS SOIL SYMBOL Element type: Pattern	Geotechnical:USCS10 OL ORGANIC CLAY OR SILT LOW Element type: Pattern	Geotechnical:USCS11 PT PEAT Element type: Pattern
		
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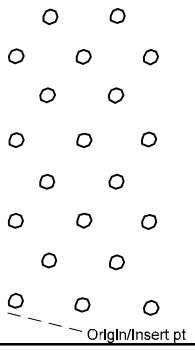	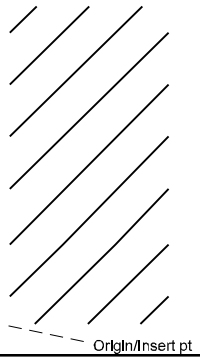	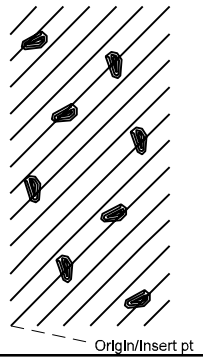
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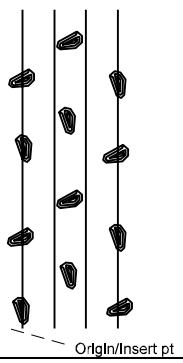
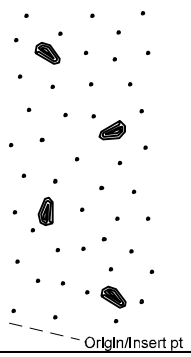
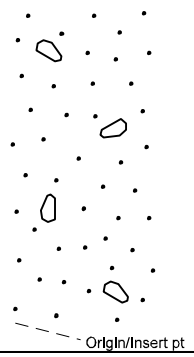
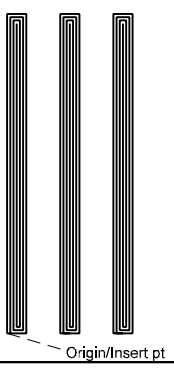
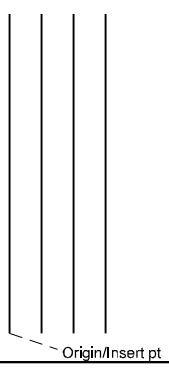
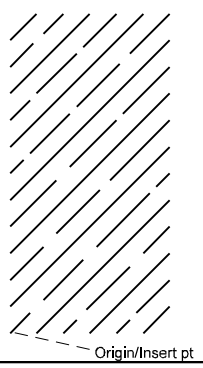
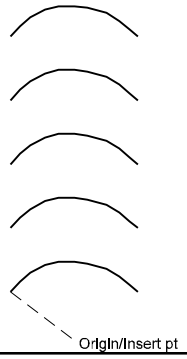
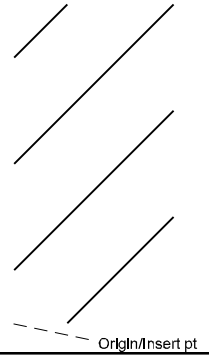
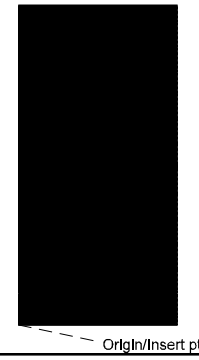
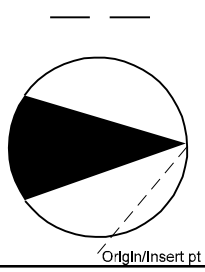
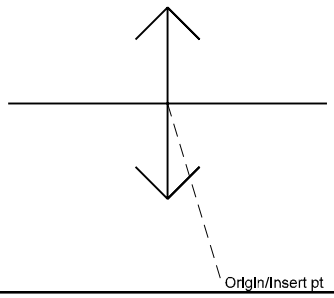
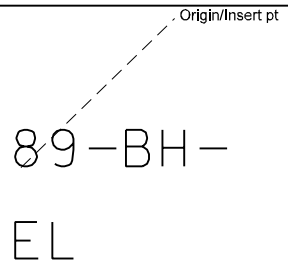
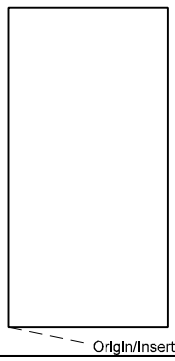
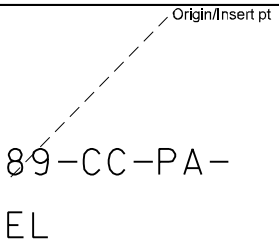
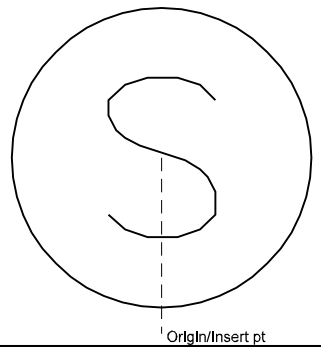
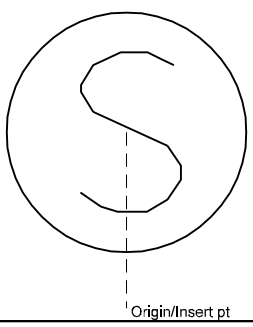
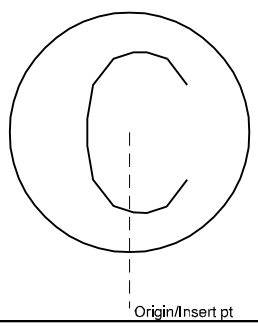
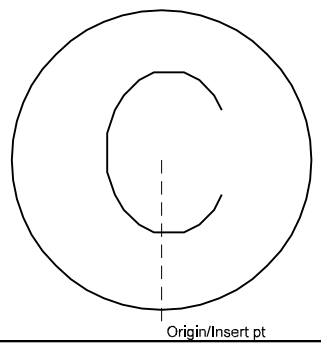
		
Geotechnical: USCS4 GM SILTY GRAVEL Element type: Pattern	Geotechnical: USCS5 GP POORLY GRADED GRAVEL Element type: Pattern	Geotechnical: USCS6 GW WELL GRADED GRAVEL Element type: Pattern
		
Geotechnical: USCS7 MH INORGANIC SILT HIGH LIQU Element type: Pattern	Geotechnical: USCS8 ML INORGANIC SILT LOW LIQUI Element type: Pattern	Geotechnical: USCS9 OH ORGANIC CLAY OR SILT HIG Element type: Pattern

		
Geotechnical:WOOD WOOD SYMBOL Element type: Pattern	Geotechnical:WSJNT WIDELY SPACED JOINTS Element type: Pattern	Geotechnical:ZONECL ZONES OF CORE LOSS Element type: Pattern

4 Geotechnical Symbols Library

		
Geotechnical: ANCHOL ANG CORED HOLE AR EQ D Element type: Symbol	Geotechnical: ANTICL ANTICLINE Element type: Symbol	Geotechnical: BHHNUM BACKHOE HOLE NUMBER Element type: Symbol
		
Geotechnical: BOLOGR BORING LOG REFUSAL Element type: Symbol	Geotechnical: CCHNUM CONCRETE CORE HOLE NO. Element type: Symbol	Geotechnical: CDRDSH CONSOL DRAINED DIR SHEAR Element type: Symbol
		
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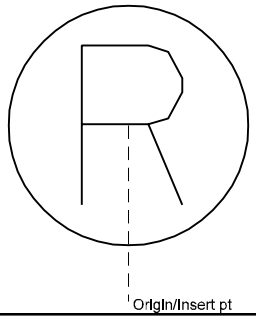	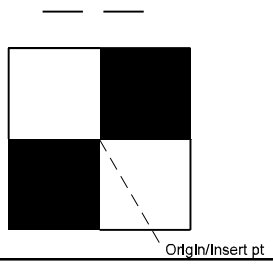	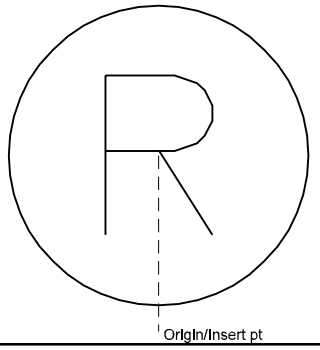
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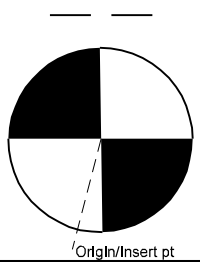	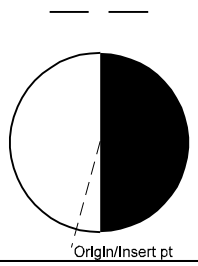	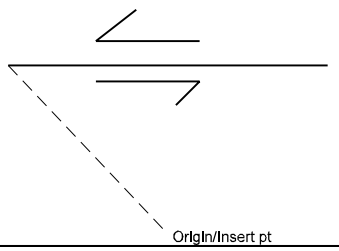
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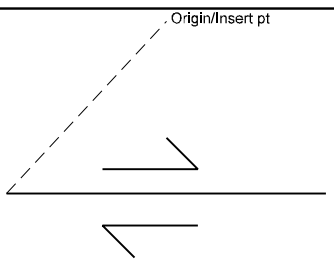	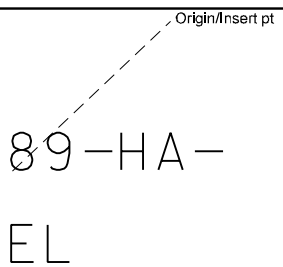	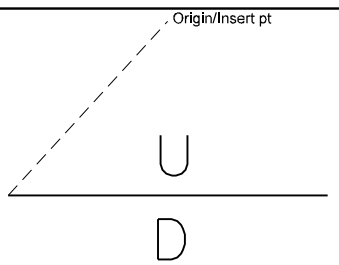
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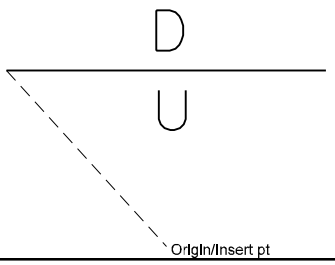	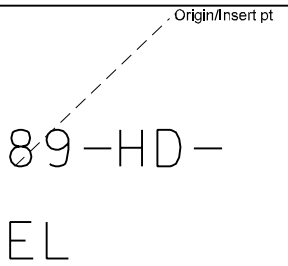	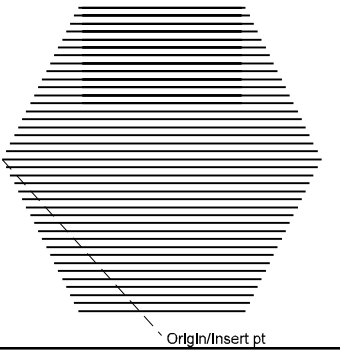
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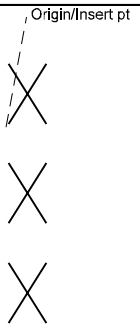	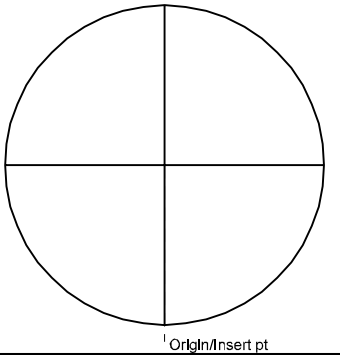	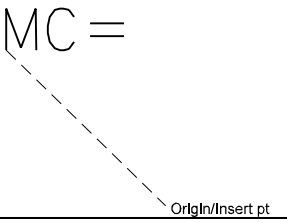
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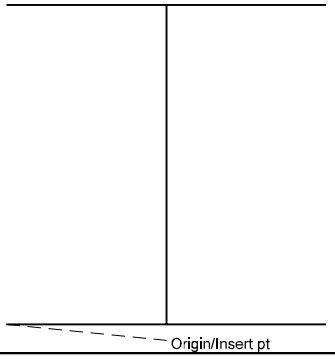	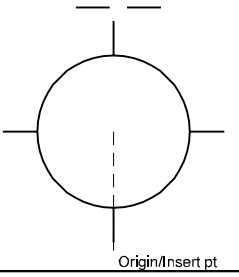	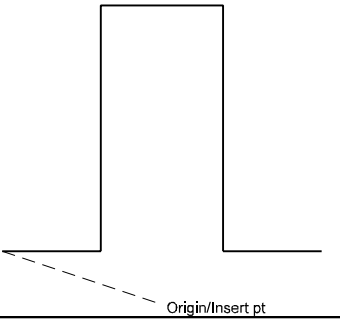
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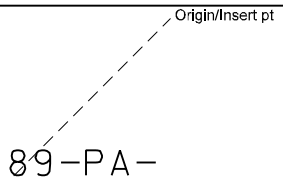	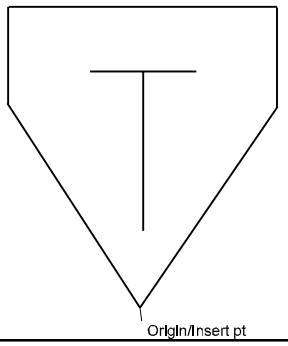	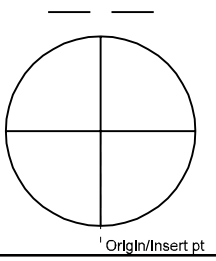
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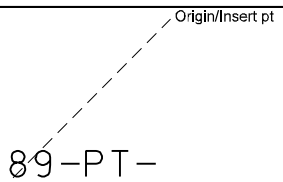
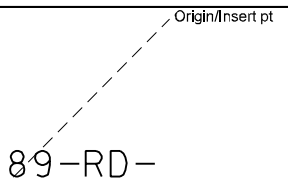
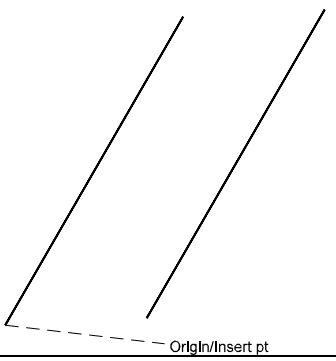
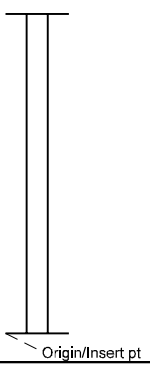
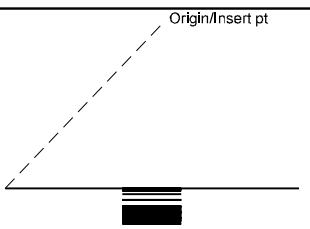
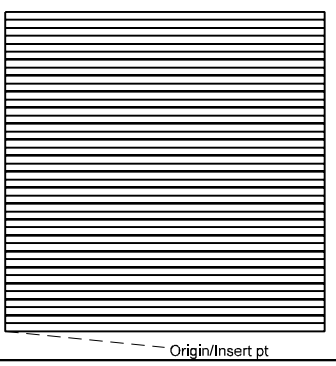
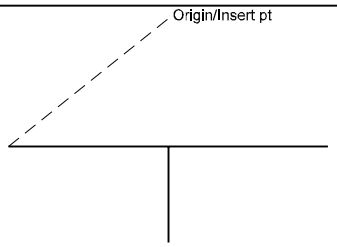
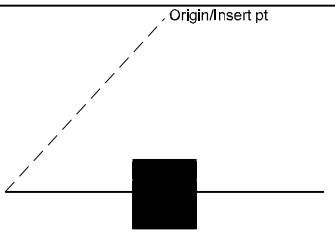
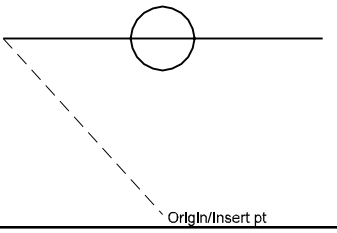
		
Geotechnical: PTHNUM PERC TEST HOLE NUMBER Element type: Symbol	Geotechnical: RDHNUM ROTARY DRILL HOLE NUMBER Element type: Symbol	Geotechnical: RSLASH REFUSAL SLASHES Element type: Symbol
		
Geotechnical: SAMPLE SAMPLE Element type: Symbol	Geotechnical: SDIJNT STRIKE DIP OF INCLINED Element type: Symbol	Geotechnical: SQUARE SQUARE SYMBOL Element type: Symbol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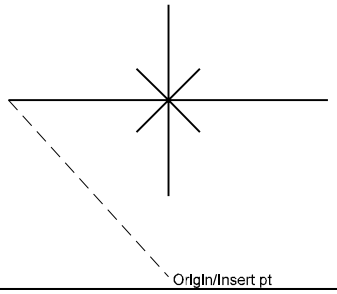	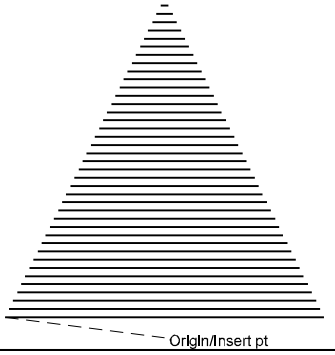	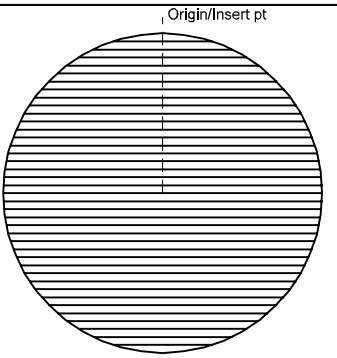
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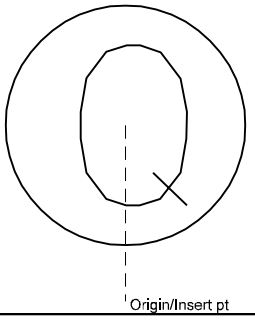	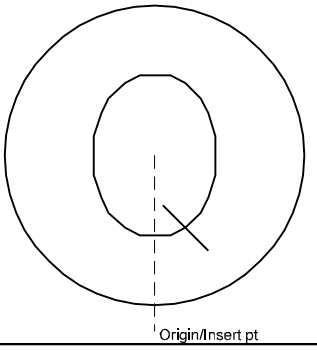	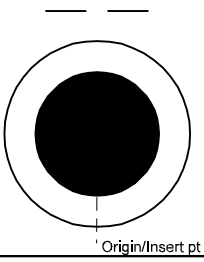
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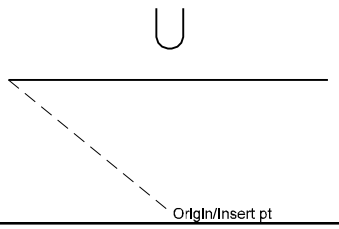
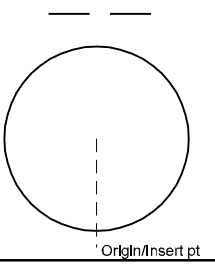
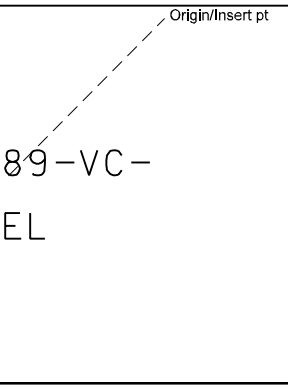
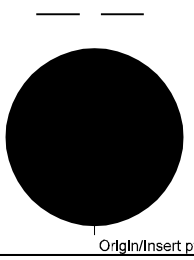
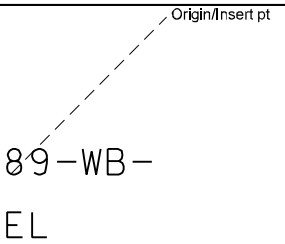
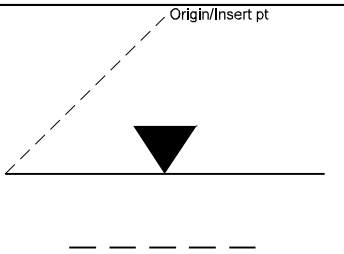
		
Geotechnical:ULIMIT UNSATISFACTORY LIMIT Element type: Symbol	Geotechnical:VCHOL VERTICAL CORE HOLE Element type: Symbol	Geotechnical:VHNUM VIBRACORE HOLE NUMBER Element type: Symbol
		
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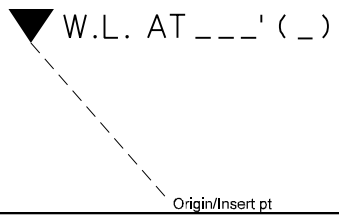
		
Geotechnical:WTRLEV WATER LEVEL Element type: Symbol		

5 Civil Lines Library

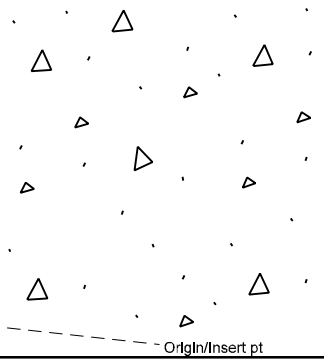
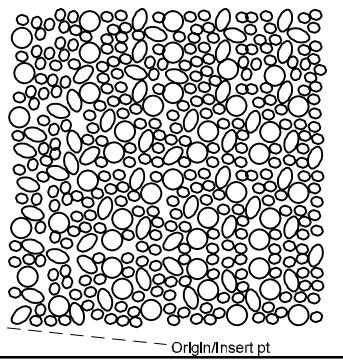
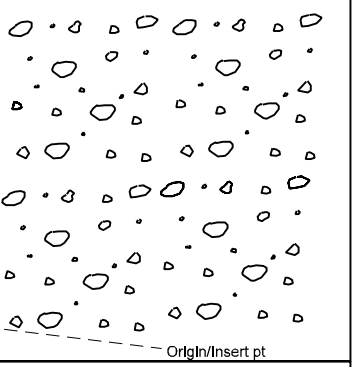
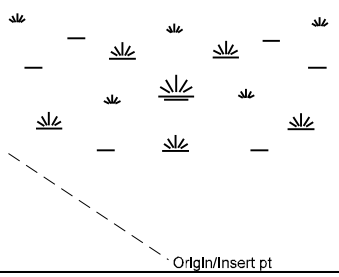
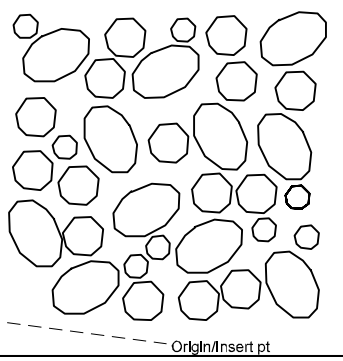
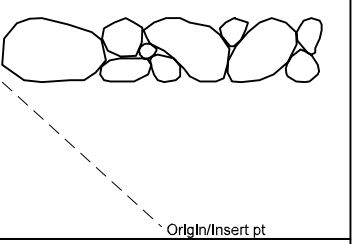
		S
Civil:BARDIT DITCH BARRIER Element type: Line	Civil:BARDTB DITCH AND BEAM BARRIER Element type: Line	Civil:BARGEN GENERIC SECURITY BARRIER Element type: Line
M		C P
Civil:BARMAS SECURITY MASONRY BARRIER Element type: Line	Civil:CONLMT CONSTRUCTION LIMIT Element type: Line	Civil:CULVRT CULVERT PIPE Element type: Line
		F
Civil:DITCH DITCH LINE Element type: Line	Civil:FENCE FENCE Element type: Line	Civil:FIRE FIRE PROTECTION WATR SUPPLY Element type: Line

F O R	F O S	F O V
Civil:FUELOR FUEL OIL RETURN Element type: Line	Civil:FUELOS FUEL OIL SUPPLY Element type: Line	Civil:FUELOV FUEL OIL TANK VENT Element type: Line
Civil:GOVTKL GOVERNMENT TAKING LINE Element type: Line	Civil:GUARD GUARD RAIL Element type: Line	Civil:INDXDC INDEX DEPTH CONTOUR Element type: Line
I W	L P G	
Civil:IWASTE INDUSTRIAL WASTE Element type: Line	Civil:LIQPET LIQUID PETROLEUM GAS Element type: Line	Civil:MINRDC MINOR DEPTH CONTOUR Element type: Line

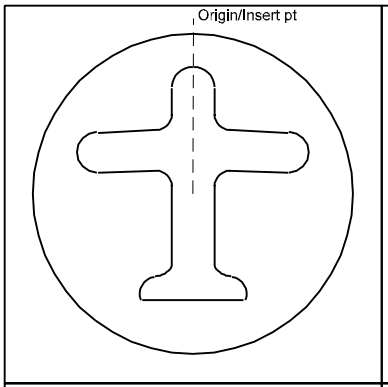
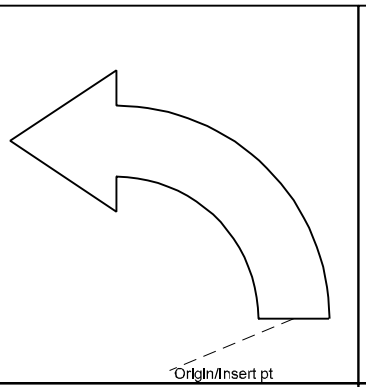
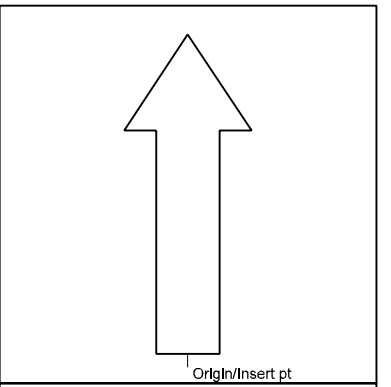
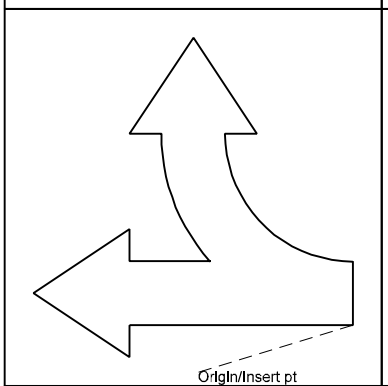
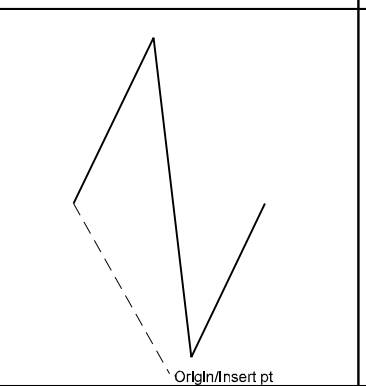
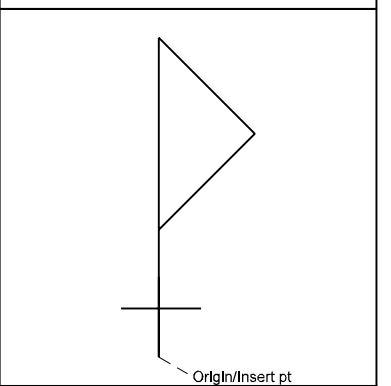
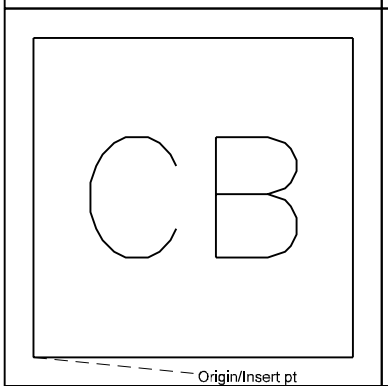
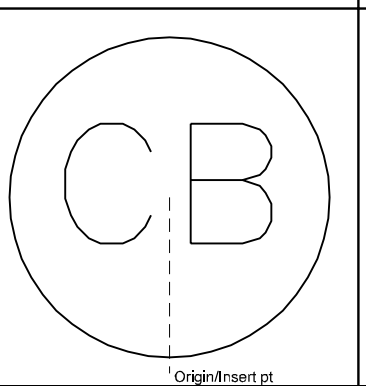
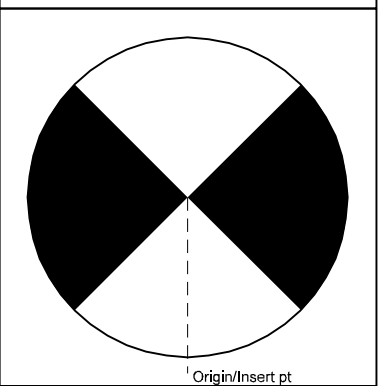
N P W	G	G_X
Civil:NONPOT NONPOTABLE WATER Element type: Line	Civil:NTGASN NATURAL GAS Element type: Line	Civil:NTGASX EXIST NATURAL GAS Element type: Line
	P L	
Civil:PROJBL PROJECT BOUNDARY LINE Element type: Line	Civil:PROPL PROPERTY LINE Element type: Line	Civil:RAILRD RAILROAD Element type: Line
R / W	S S	$S S_X$
Civil:RTOFWY RIGHT OF WAY Element type: Line	Civil:SSWAF SANITARY SEWER Element type: Line	Civil:SSWAFX EXISTING SANITARY SEWER Element type: Line

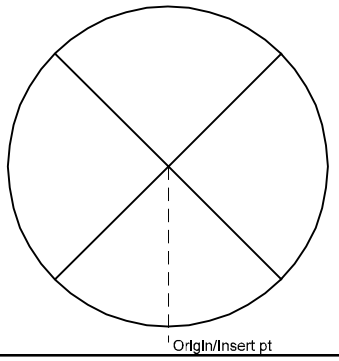
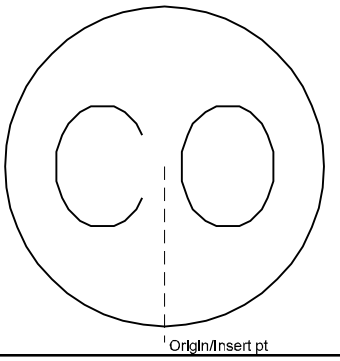
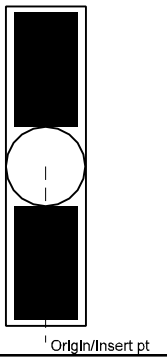
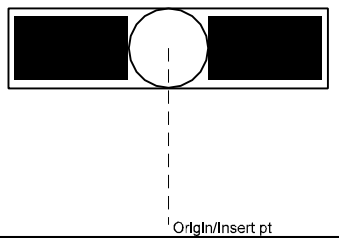
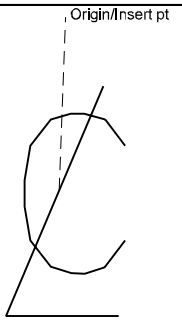
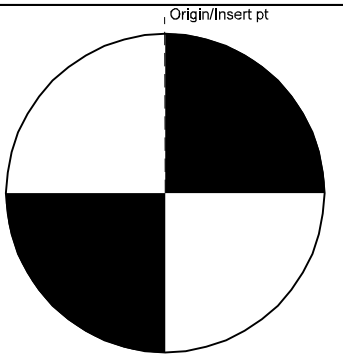
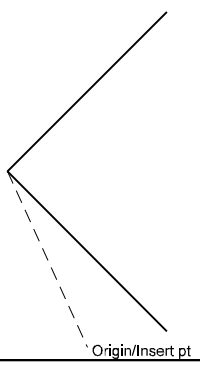
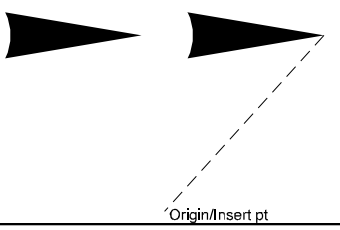
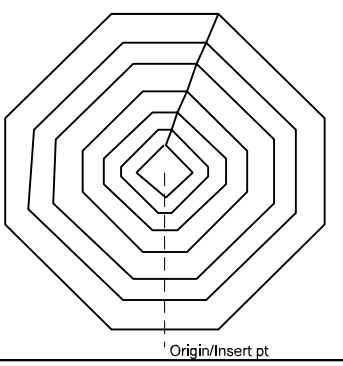
S D	S D_X	
Civil:STRAF STORM DRAIN Element type: Line	Civil:STRAFX EXISTING STORM DRAIN Element type: Line	Civil:TREEL TREE LINE Element type: Line
W	W_X	X X
Civil:WATERL WATER LINE Element type: Line	Civil:WATRX EXISTING WATER LINE Element type: Line	Civil:WWFBRC WELDED WIRE FABRIC Element type: Line

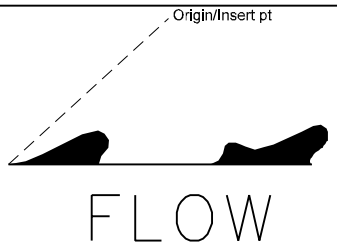
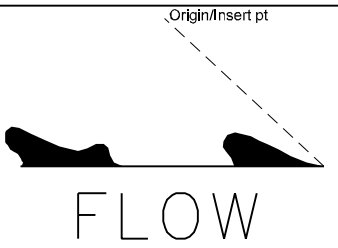
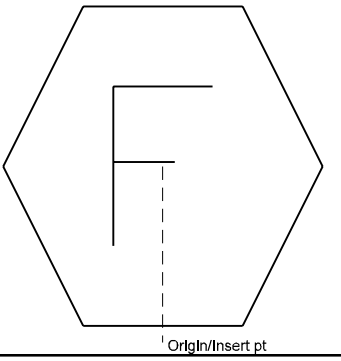
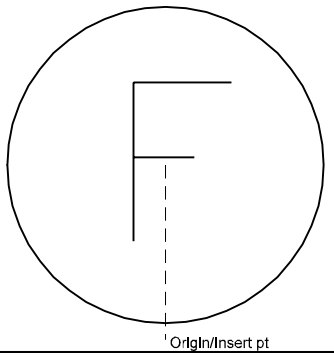
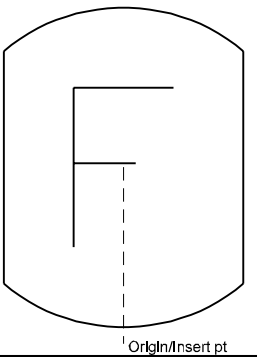
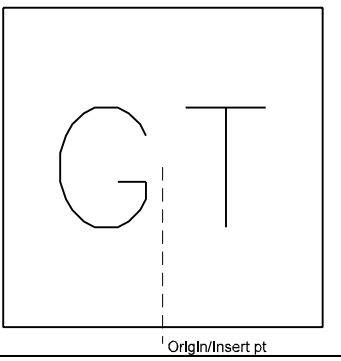
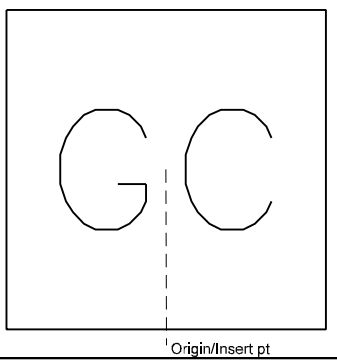
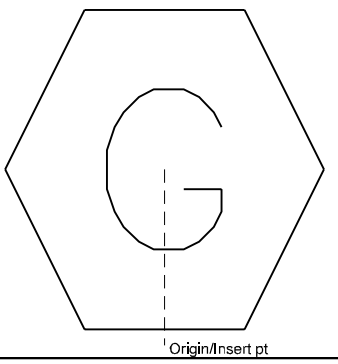
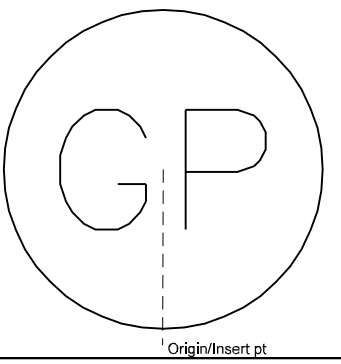
5 Civil Patterns Library

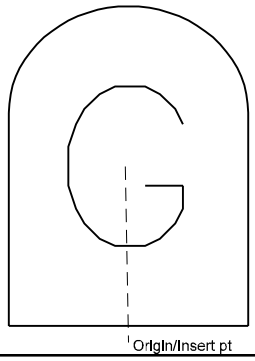
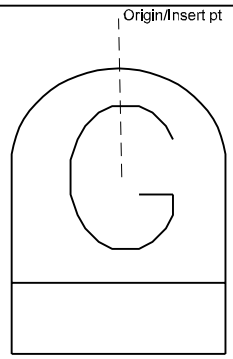
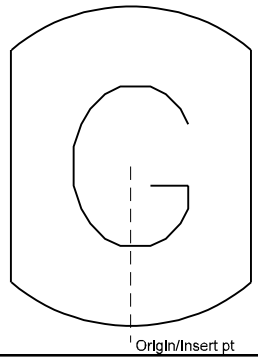
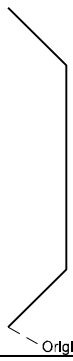
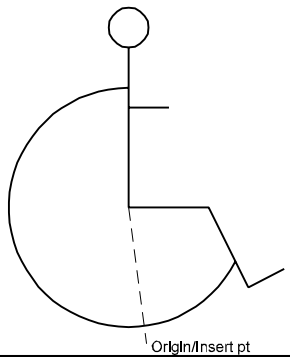
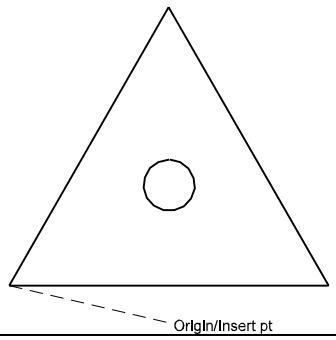
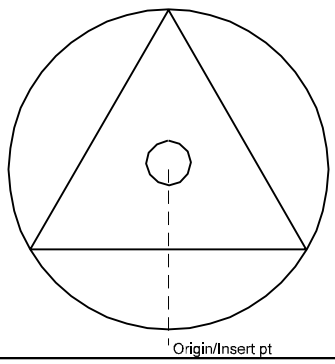
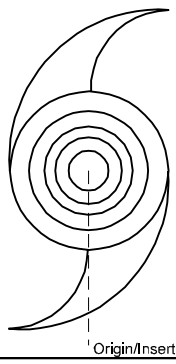
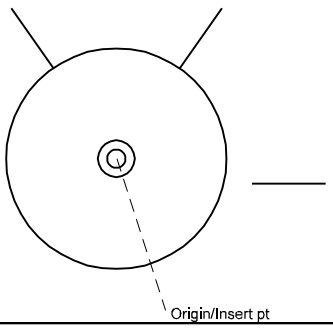
		
Civil:CONCST CONCRETE STONE Element type: Pattern	Civil:FILTBD FILTRATION BED Element type: Pattern	Civil:GRAVEL GRAVEL Element type: Pattern
		
Civil:LSWAMP LARGE SWAMP Element type: Pattern	Civil:POROUS POROUS Element type: Pattern	Civil:RIPRAP RIPRAP PATTERN Element type: Pattern

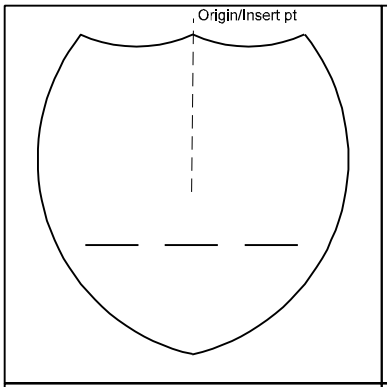
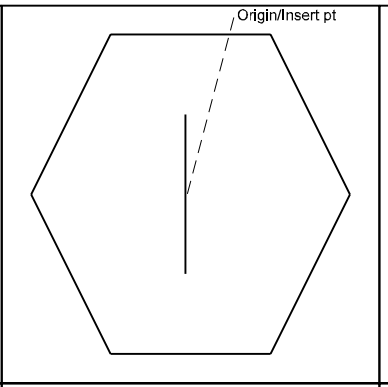
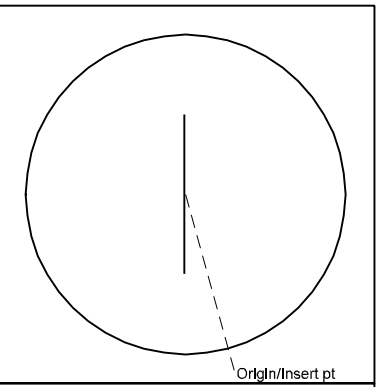
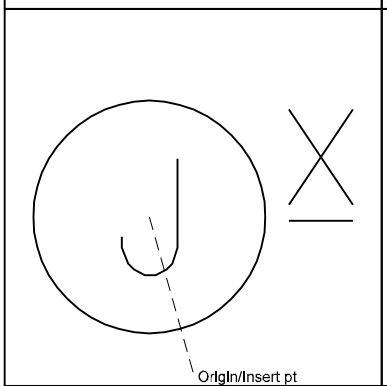
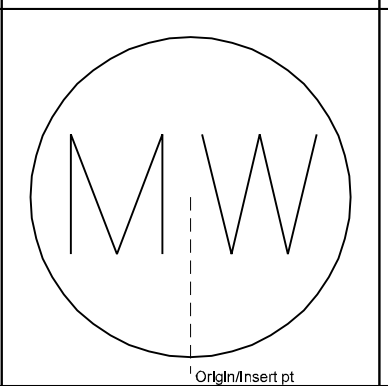
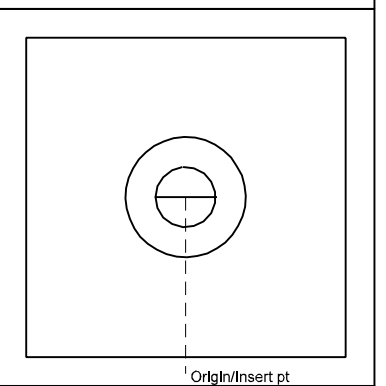
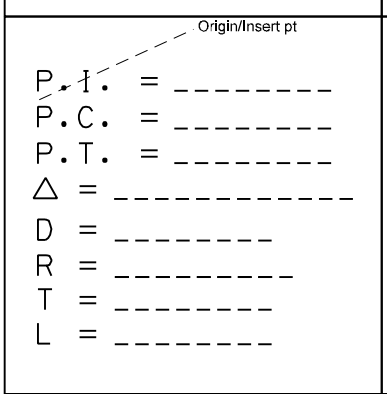
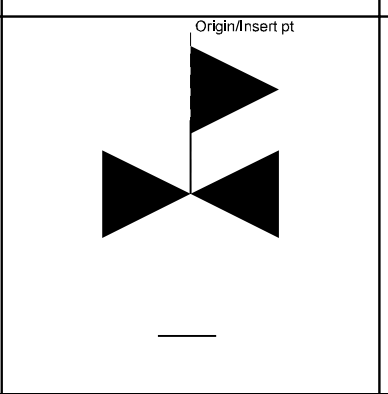
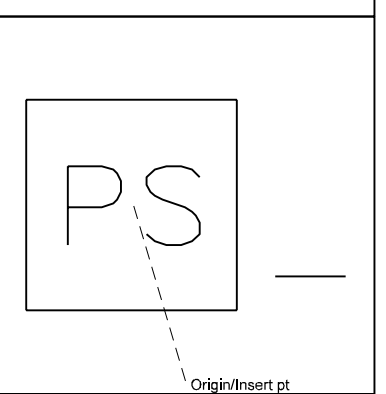
5 Civil Symbols Library

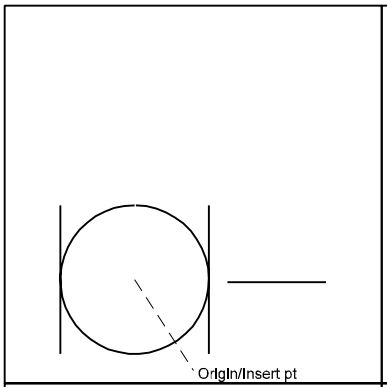
		
Civil:AIRFLD AIRFIELD SYMBOL Element type: Symbol	Civil:ARRPT PARKING TURN ARROW Element type: Symbol	Civil:ARRSD STRAIGHT DIRECTION ARROW Element type: Symbol
		
Civil:ARRST STRAIGHT AND TURN ARROW Element type: Symbol	Civil:BREAK BREAK LINE SYMBOL Element type: Symbol	Civil:BUOY BUOY Element type: Symbol
		
Civil:CATBSN CATCH BASIN Element type: Symbol	Civil:CATBSR ROUND CATCH BASIN Element type: Symbol	Civil:CDHDR CORE DRILL HOLE DRILLED Element type: Symbol

		
Civil:CDHUDR CORE DRILL HOLE UNDRILLED Element type: Symbol	Civil:CLNOUT CLEANOUT Element type: Symbol	Civil:CNR90 CORNER SOLID 90 Element type: Symbol
		
Civil:CNRSF CORNER SOLID FLAT Element type: Symbol	Civil:CNTLIN CENTERLINE SYMBOL Element type: Symbol	Civil:COGRAV CENTER OF GRAVITY SYMBOL Element type: Symbol
		
Civil:CULVEE CULVERT END SYMBOL Element type: Symbol	Civil:DBLARR DOUBLE ARROW TERMINATOR Element type: Symbol	Civil:DRLHOL DRILL HOLE Element type: Symbol

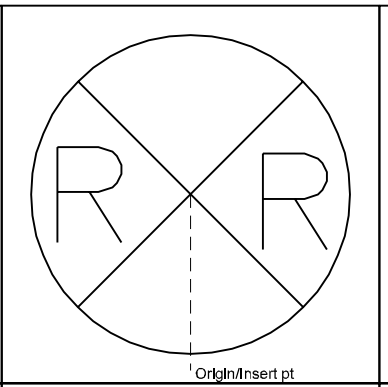
		
Civil:FLARRL FLOW ARROW LEFT IN 0 POINT Element type: Symbol	Civil:FLARRR FLOW ARROW RIGHT IN 0 POINT Element type: Symbol	Civil:FOMETR FUEL OIL METER Element type: Symbol
		
Civil:FOMHOL FUEL OIL MANHOLE Element type: Symbol	Civil:FOVALT FUEL OIL VAULT Element type: Symbol	Civil:GREASE GREASE TRAP Element type: Symbol
		
Civil:GRITCH GRIT CHAMBER Element type: Symbol	Civil:GSMETR GAS METER Element type: Symbol	Civil:GSPLNT GAS PLANT Element type: Symbol

		
Civil:GSRECR GAS RECEIVER Element type: Symbol	Civil:GSTRAP GAS TRAP Element type: Symbol	Civil:GSVALT GAS VALVE VAULT Element type: Symbol
		
Civil:HEADWL HEADWALL Element type: Symbol	Civil:HNDCAP HANDICAP CHAIR SYMBOL Element type: Symbol	Civil:HORCPT HORIZONTAL CONTROL PT Element type: Symbol
		
Civil:HOVCPT HORIZ VERT CONTROL PT Element type: Symbol	Civil:HUREYE HURRICANE EYE Element type: Symbol	Civil:HYDRNT HYDRANT Element type: Symbol

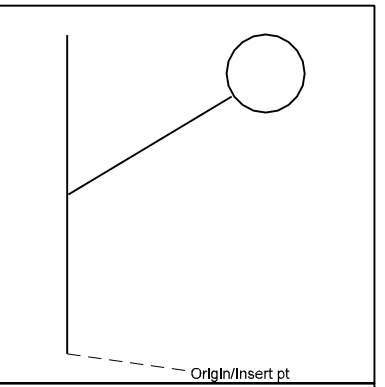
		
Civil:INSHWY INTERSTATE HIGHWAY SYMBOL Element type: Symbol	Civil:IWMETR INDUSTRIAL WASTE WATR METER Element type: Symbol	Civil:IWMHOL INDUSTRIAL WASTE WATR MANHL Element type: Symbol
		
Civil:JNBX EXTERIOR UTIL JUNCTION BOX Element type: Symbol	Civil:MONWEL MONITORING WELL Element type: Symbol	Civil:PHOCPT PHOTO CONTROL POINT Element type: Symbol
		
Civil:PIINFO PI INFORMATION Element type: Symbol	Civil:PIVALV POST INDICATOR VALVE Element type: Symbol	Civil:PMPSTA PUMP STATION Element type: Symbol



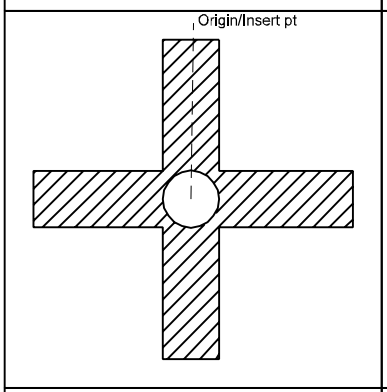
Civil:RGVALV
REGULATOR VALVE
Element type: Symbol



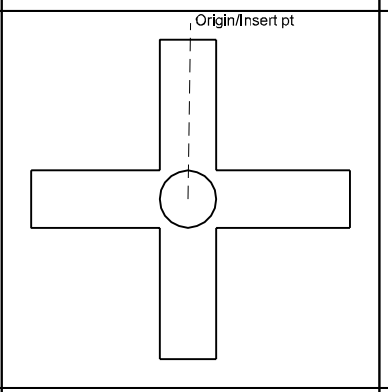
Civil:RRSIGN
RAIL SIGNAL
Element type: Symbol



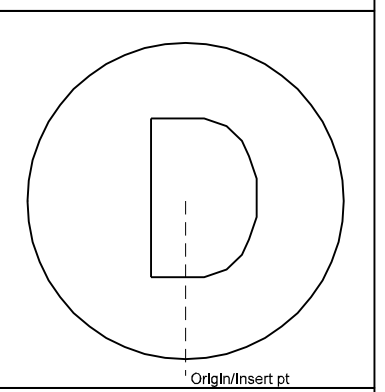
Civil:RRSWTC
RAIL SWITCH
Element type: Symbol



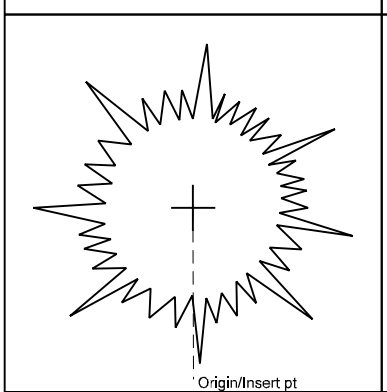
Civil:SCNRH
SECTION CORNER HATCHED
Element type: Symbol



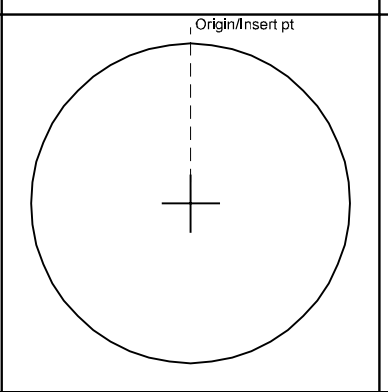
Civil:SCNRO
SECTION CORNER OPEN
Element type: Symbol



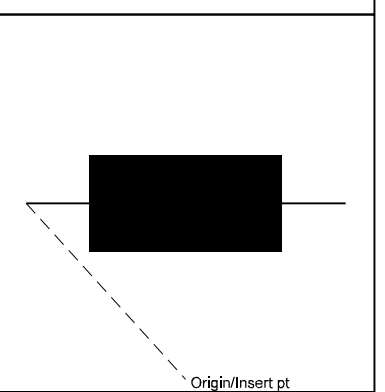
Civil:SDMHOL
STORM DRAINAGE MANHOLE
Element type: Symbol



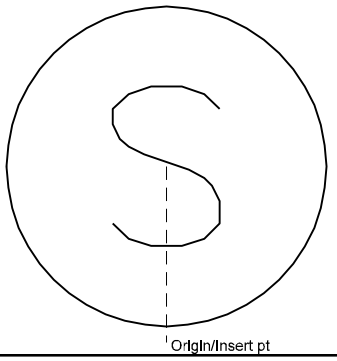
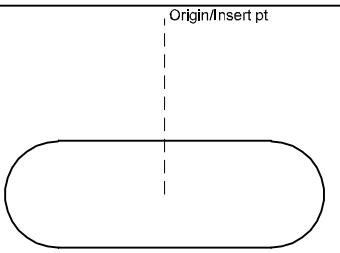
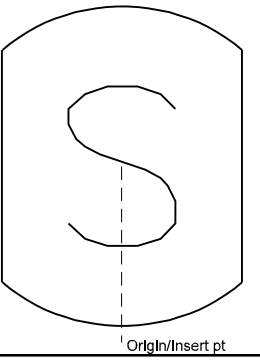
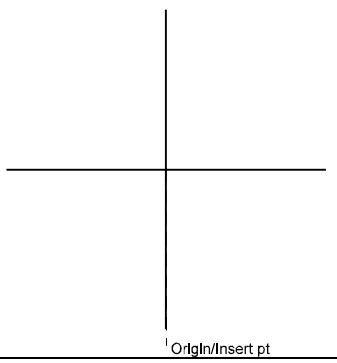
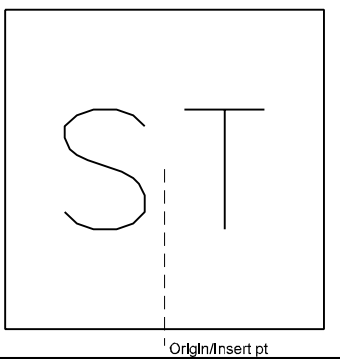
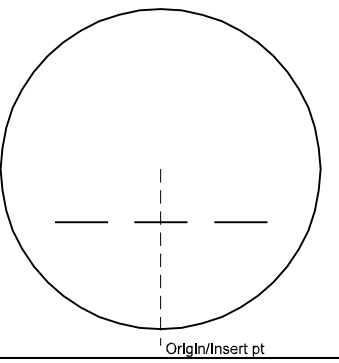
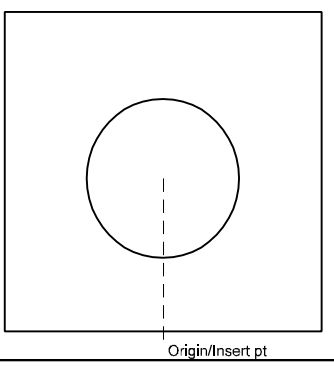
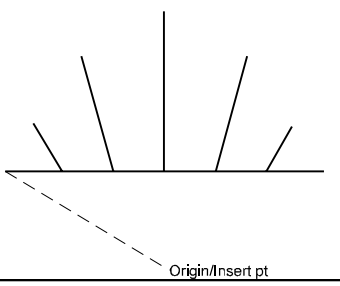
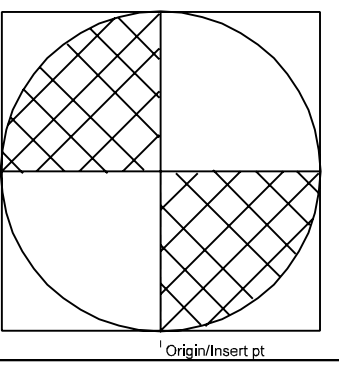
Civil:SHRUBC
CONIFEROUS SHRUB
Element type: Symbol

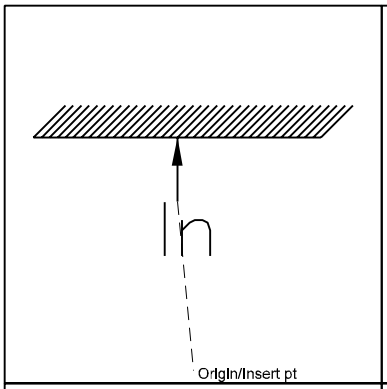


Civil:SHRUBD
DECIDUOUS SHRUB
Element type: Symbol

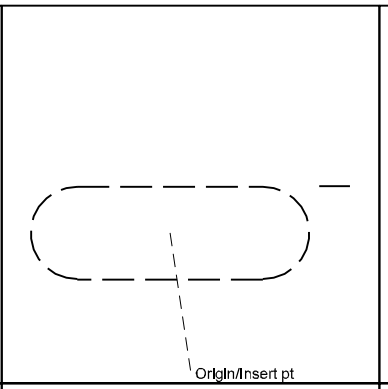


Civil:SIGN
SIGN
Element type: Symbol

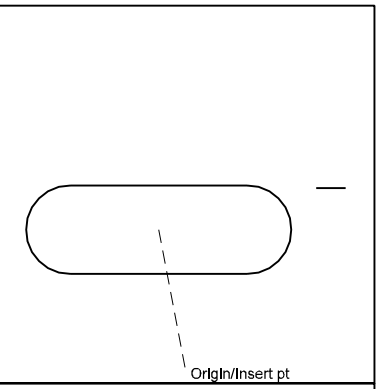
		
Civil: SNMHOL SANITARY MANHOLE Element type: Symbol	Civil: SNPVSL SANITARY PRESSURE VESSEL Element type: Symbol	Civil: SNVALT SANITARY VALVE VAULT Element type: Symbol
		
Civil: SPOTEL GROUND SPOT ELEVATION Element type: Symbol	Civil: SPTANK SEPTIC TANK Element type: Symbol	Civil: STHWY STATE HIGHWAY SYMBOL Element type: Symbol
		
Civil: STMPIT STEAM PIT Element type: Symbol	Civil: SWAMP SWAMP Element type: Symbol	Civil: TIDEG TIDE GAGE Element type: Symbol



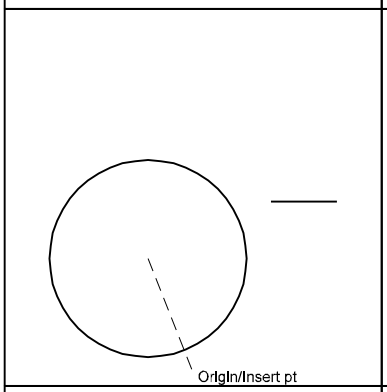
Civil:TIRETR
TIRE TREDDLE
Element type: Symbol



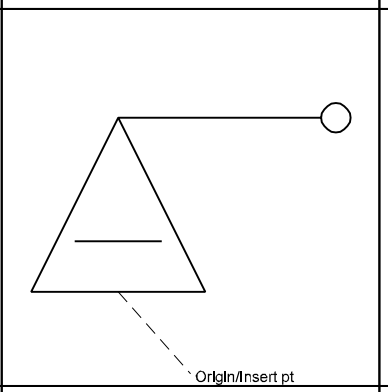
Civil:TNKBG
TANK BELOW GROUND
Element type: Symbol



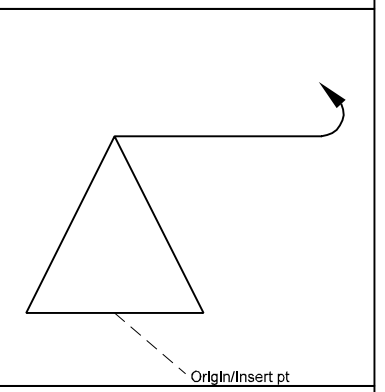
Civil:TNKHAG
TANK HORIZ ABOVE GROUND
Element type: Symbol



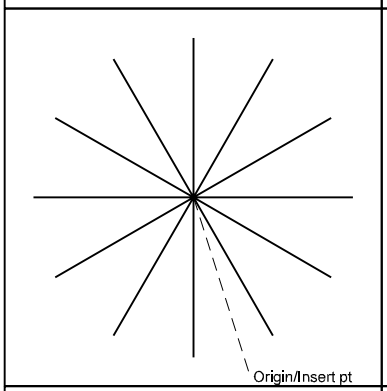
Civil:TNKVAG
TANK VERTICAL ABOVE GROUND
Element type: Symbol



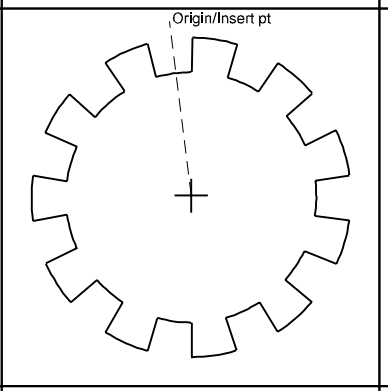
Civil:TRACR
TRAFFIC ARM WTH CARD READER
Element type: Symbol



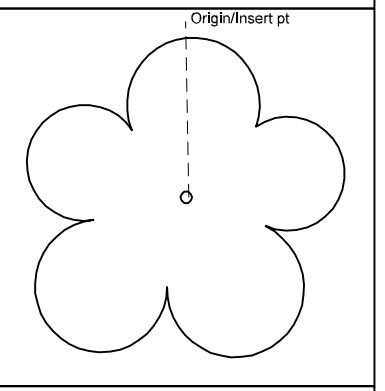
Civil:TRAMS
TRAFFIC ARM MECHANCL SWING
Element type: Symbol



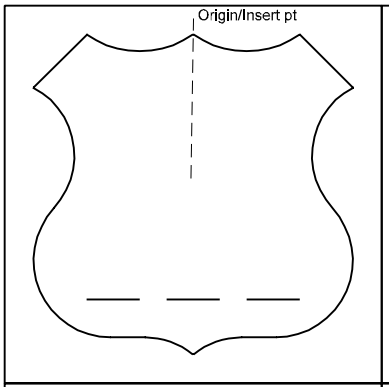
Civil:TREEC
CONIFEROUS TREE
Element type: Symbol



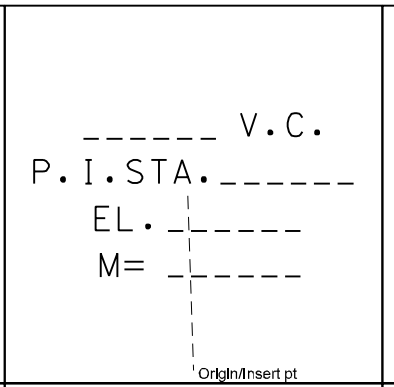
Civil:TREED
DECIDUOUS TREE
Element type: Symbol



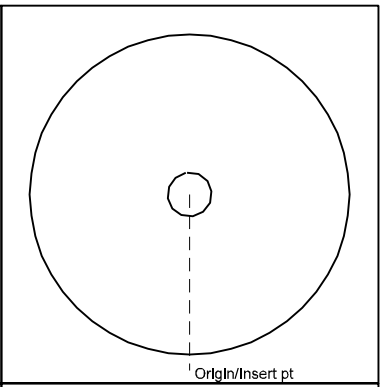
Civil:TREEG
GENERIC TREE
Element type: Symbol



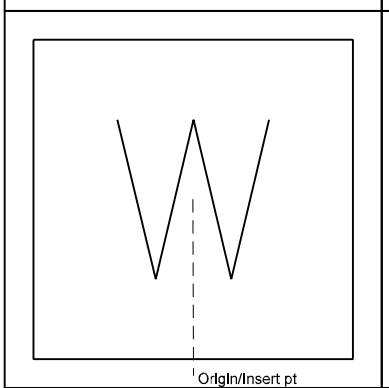
Civil:USHWY
US HIGHWAY SYMBOL
Element type: Symbol



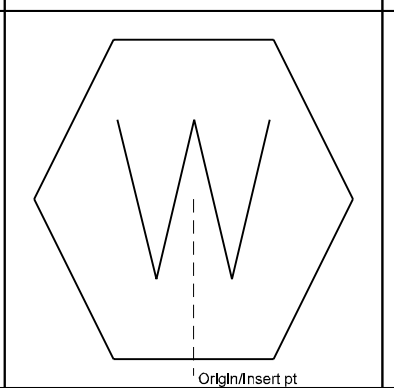
Civil:VCDATA
VERTICAL CURVE DATA
Element type: Symbol



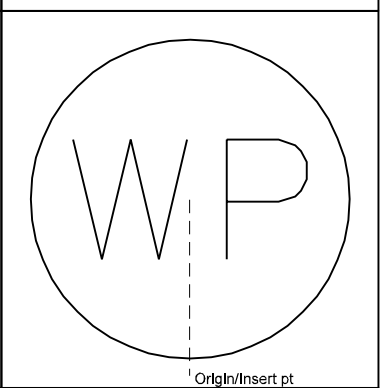
Civil:VERCPT
VERTICAL CONTROL POINT
Element type: Symbol



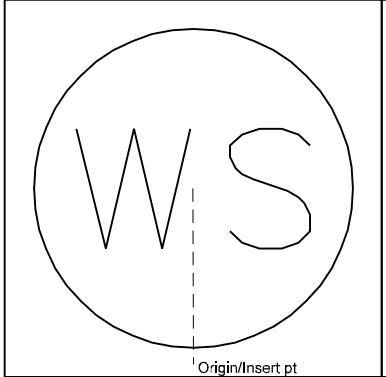
Civil:WAHHOL
WATER HANDHOLE
Element type: Symbol



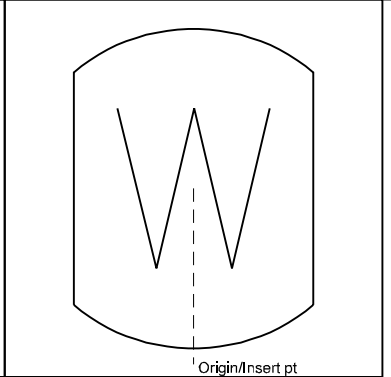
Civil:WAMETR
WATER METER
Element type: Symbol



Civil:WAPLNT
WATER PLANT
Element type: Symbol

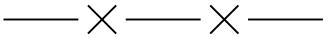
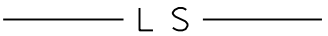


Civil:WASOFT
WATER SOFTENER
Element type: Symbol

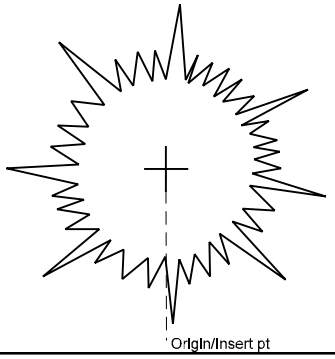
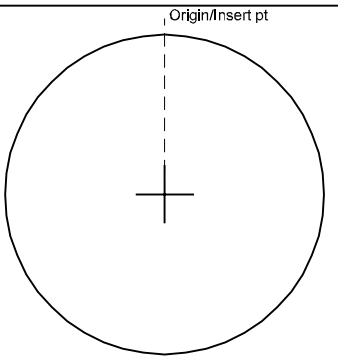
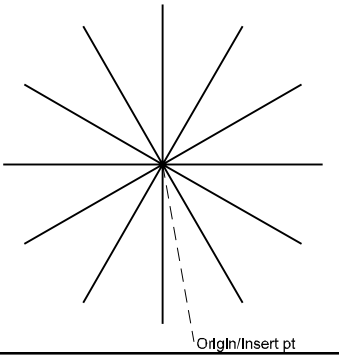
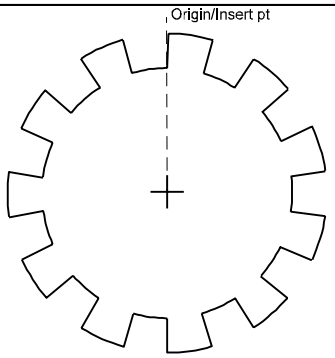
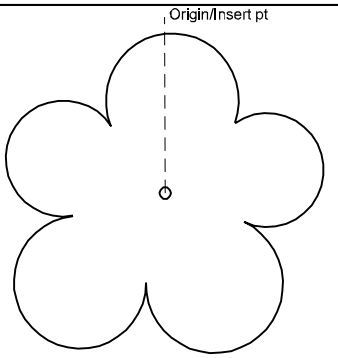


Civil:WAVALT
WATER VALVE VAULT
Element type: Symbol

6 Landscape Lines Library

		
Landscape:FENCE FENCE Element type: Line	Landscape:LAWNSP LAWN SPRINKLER SUPPLY Element type: Line	Landscape:TREEL TREE LINE Element type: Line

6 Landscape Symbols Library

		
Landscape:SHRUBC CONIFEROUS SHRUB Element type: Symbol	Landscape:SHRUBD DECIDUOUS SHRUB Element type: Symbol	Landscape:TREEC CONIFEROUS TREE Element type: Symbol
		
Landscape:TREED DECIDUOUS TREE Element type: Symbol	Landscape:TREEG GENERIC TREE Element type: Symbol	

7 Structural Lines Library

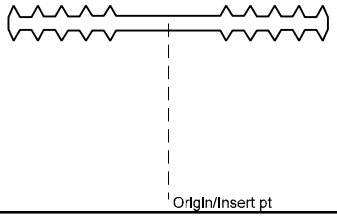
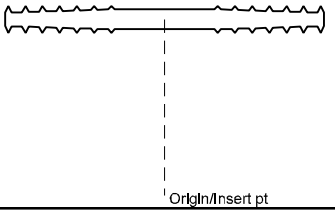
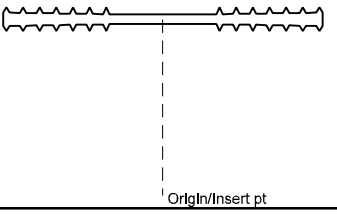
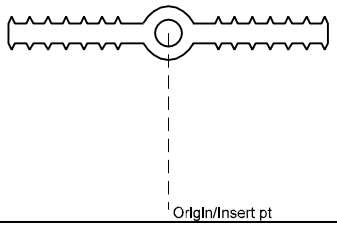
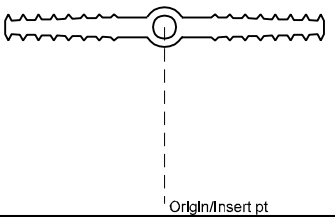
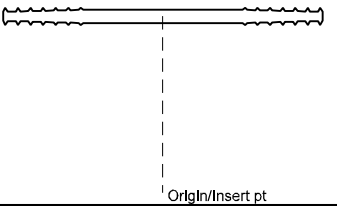
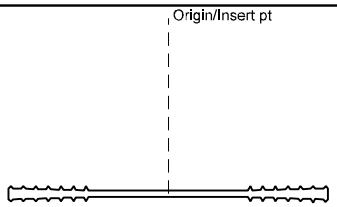
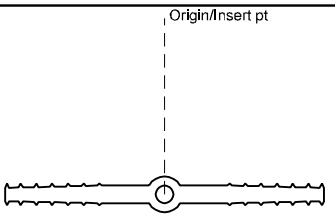
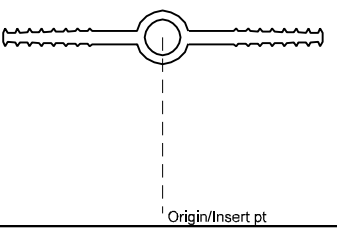
Structural:BERM BERM Element type: Line	Structural:CMP127 CMP 127MMX25MM OR 5IN X 1IN Element type: Line	Structural:CMP152 CMP 152MMX51MM OR 6IN X 2IN Element type: Line
Structural:CMP38 CMP38MMX6MM OR 1.5INX.25IN Element type: Line	Structural:CMP51 CMP51MMX13MM OR 2IN X .5IN Element type: Line	Structural:CMP68 CMP68MMX13MM OR 2.7INX.5IN Element type: Line
Structural:CMP76 CMP76MMX25MM OR 3IN X 1IN Element type: Line	Structural:DECKCR CORRUGATED METAL DECK Element type: Line	Structural:DECKFL METAL DECK FLOOR Element type: Line

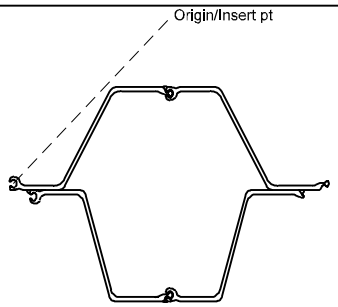
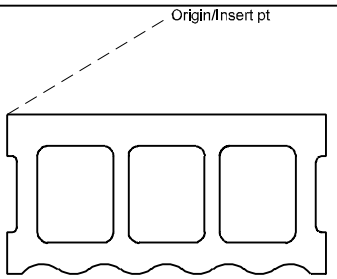
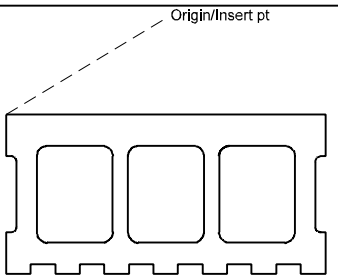
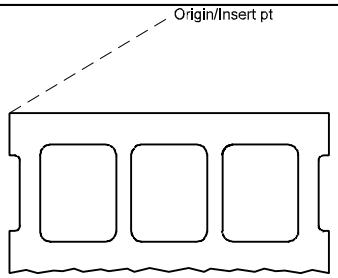
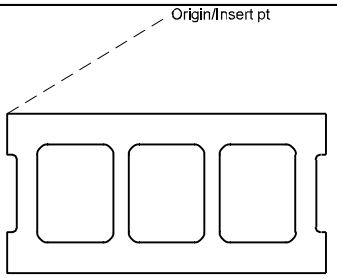
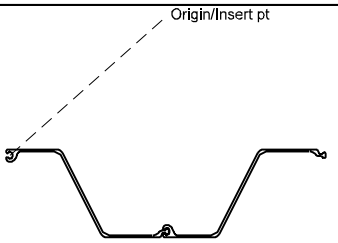
Structural:DECKRF METAL DECK ROOF Element type: Line	Structural:GROUND GROUND Element type: Line	Structural:INTRLK INTERLOCK SLOPE PROTECTION Element type: Line
Structural:PS31 PS31 SHEET PILE Element type: Line	Structural:PS31H PS31 SHEET PILE HIDDEN Element type: Line	Structural:PSA23 PSA23 SHEET PILE Element type: Line
Structural:PSA23H PSA23 SHEET PILE HIDDEN Element type: Line	Structural:PZ22 PZ22 SHEET PILE Element type: Line	Structural:PZ22H PZ22 SHEET PILE HIDDEN Element type: Line

Structural:PZ27 PZ27 SHEET PILE Element type: Line	Structural:PZ27H PZ27 SHEET PILE HIDDEN Element type: Line	Structural:PZ35 PZ35 SHEET PILE Element type: Line
Structural:PZ35H PZ35 SHEET PILE HIDDEN Element type: Line	Structural:PZ40 PZ40 SHEET PILE Element type: Line	Structural:PZ40H PZ40 SHEET PILE HIDDEN Element type: Line
Structural:REBR12 REBAR AT 12IN Element type: Line	Structural:REBR18 REBAR AT 18IN Element type: Line	Structural:REBR6 REBAR AT 6IN Element type: Line

Structural:REBR9 REBAR AT 9IN Element type: Line	Structural:RIPPLN RIPRAP PLAN VIEW Element type: Line	Structural:ROCK ROCK Element type: Line
Structural:SHORLN SHORE LINE Element type: Line	Structural:WWFBRC WELDED WIRE FABRIC Element type: Line	

7 Structural Objects Library

		
Structural:4FRB 4 IN FLAT RIBBED Element type: Object	Structural:6FRBHD 6 IN FLAT RIBBED HVY DTY Element type: Object	Structural:6FRBLW 6 IN FLAT RIBBED LT WT Element type: Object
		
Structural:6RCBHD 6 IN RIB W CTR BULB HVY DTY Element type: Object	Structural:6RCBLW 6 IN RIB W CTR BULB LT WT Element type: Object	Structural:9FLBHD 9 IN FLAT RIBBED HVY DTY Element type: Object
		
Structural:9FRBLW 9 IN FLAT RIBBED LT WT Element type: Object	Structural:9RCBHD 9 IN RIB W CTR BULB HVY DTY Element type: Object	Structural:9RCBLW 9 IN RIB W CTR BULB LT WT Element type: Object

		
Structural:BOX BOX PILE Element type: Object	Structural:CMUFL FLUTED CONC BLK 8X8X16 Element type: Object	Structural:CMURIB RIBBED CONC BLK 8X8X16 Element type: Object
		
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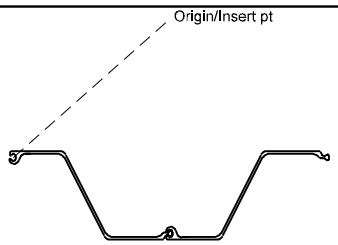	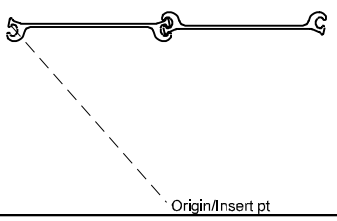	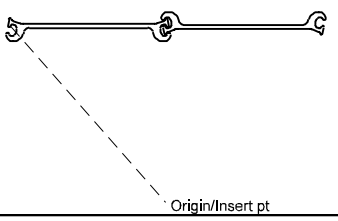
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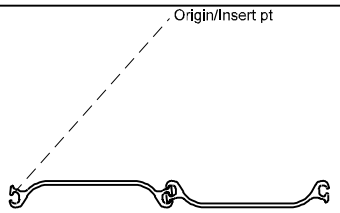
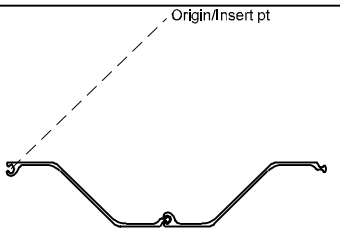
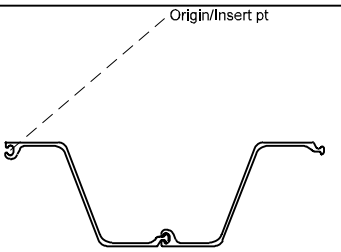
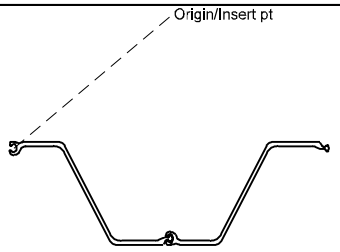
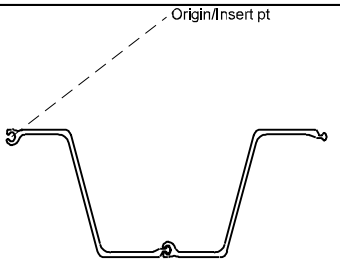
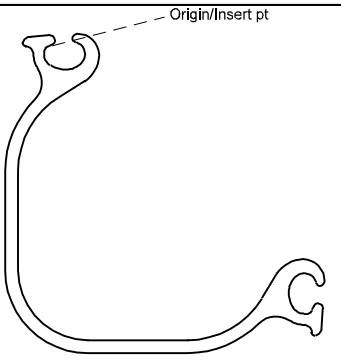
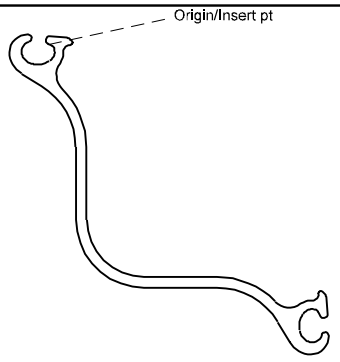
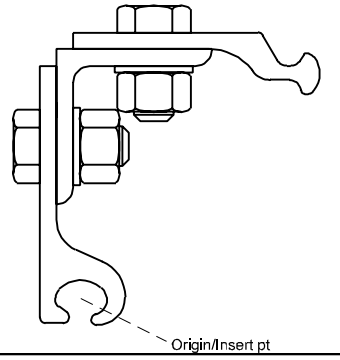
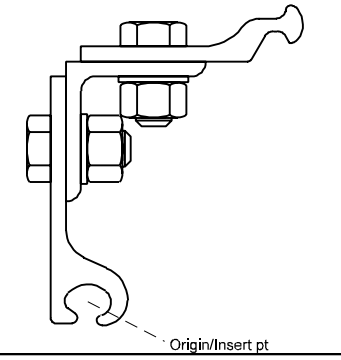
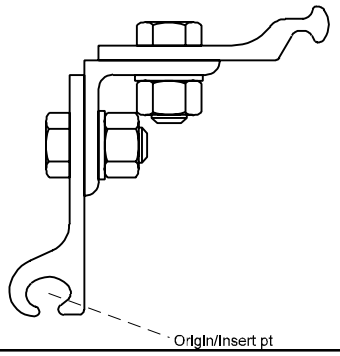
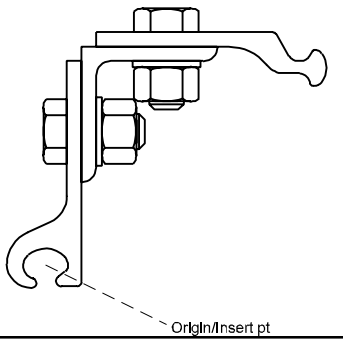
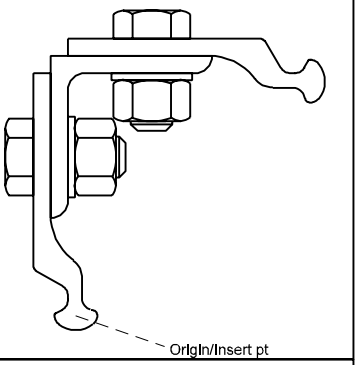
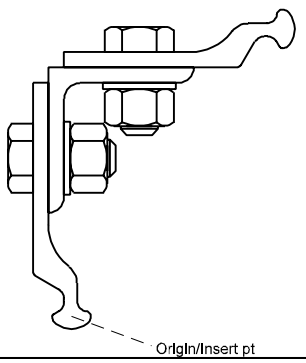
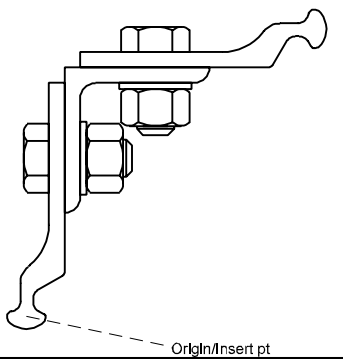
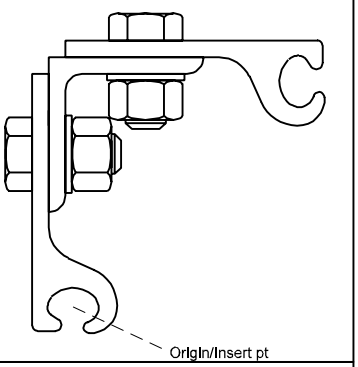
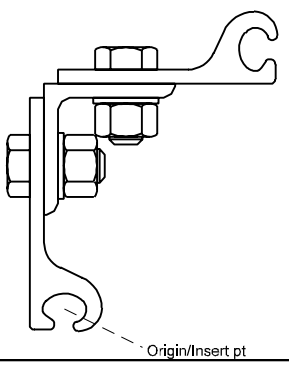
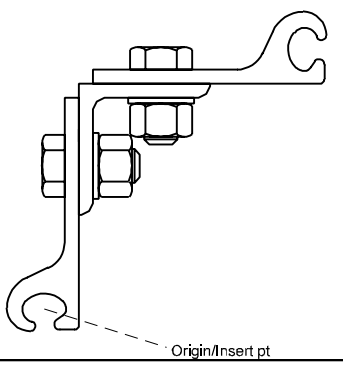
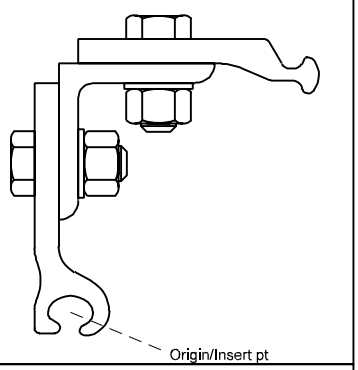
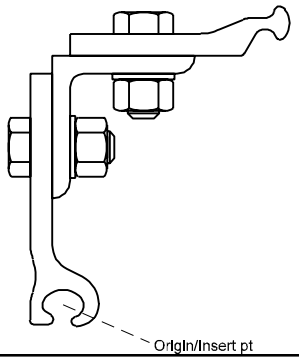
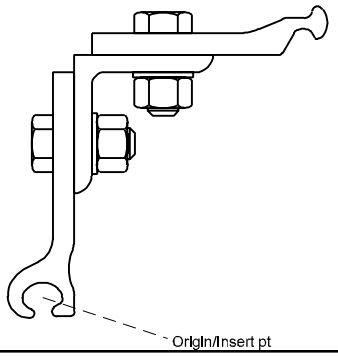
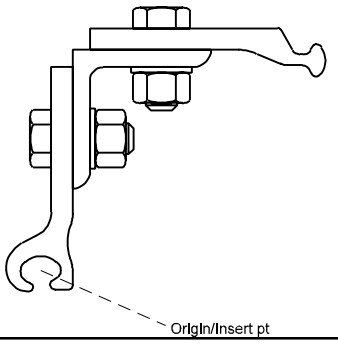
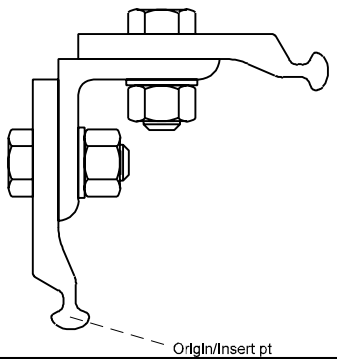
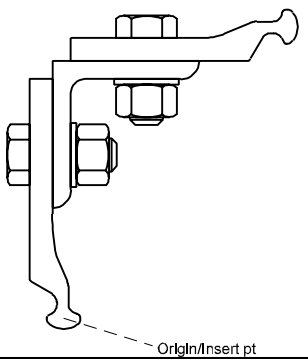
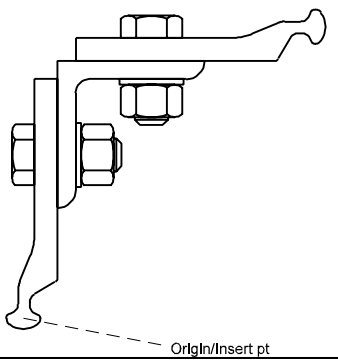
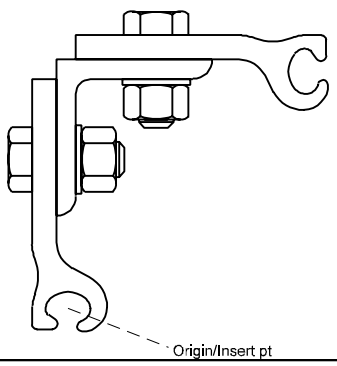
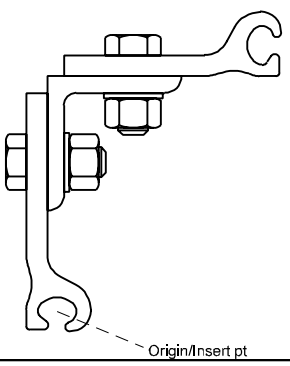
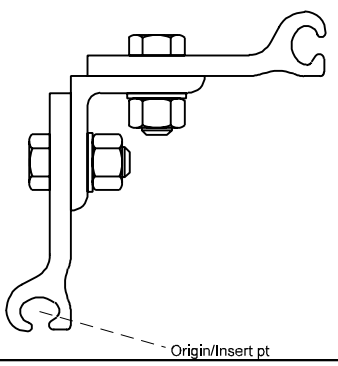
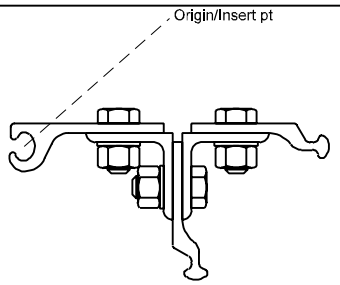
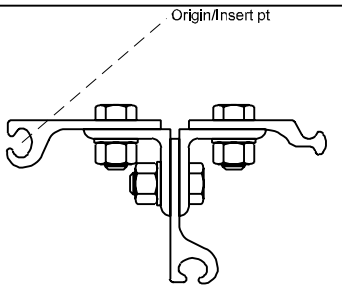
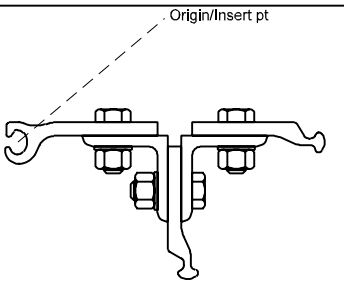
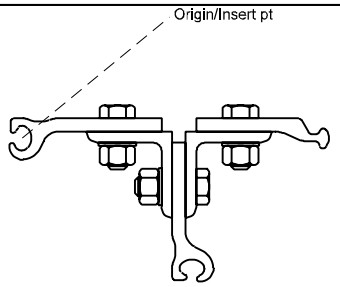
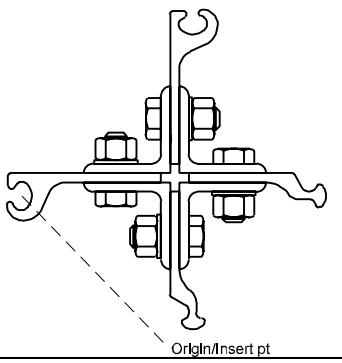
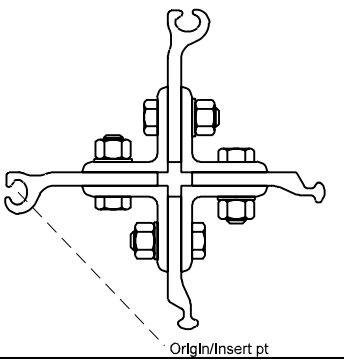
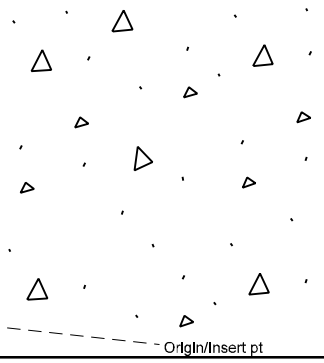
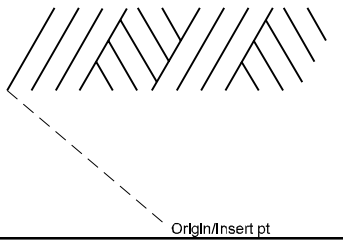
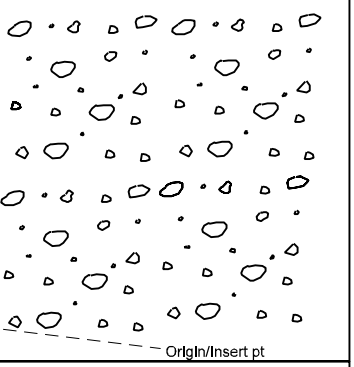
		
Structural:PSA23 PSA23 SHEET PILE Element type: Object	Structural:PZ22 PZ22 SHEET PILE Element type: Object	Structural:PZ27 PZ27 SHEET PILE Element type: Object
		
Structural:PZ35 PZ35 SHEET PILE Element type: Object	Structural:PZ40 PZ40 SHEET PILE Element type: Object	Structural:RC230 RC230 SHEET PILE CONNECTION Element type: Object
		
Structural:RC231 RC231 SHEET PILE CONNECTION Element type: Object	Structural:ZC270 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC271 PZ22 PZ27 L CONNECTION Element type: Object

		
Structural:ZC272 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC273 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC274 PZ22 PZ27 L CONNECTION Element type: Object
		
Structural:ZC275 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC276 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC277 PZ22 PZ27 L CONNECTION Element type: Object
		
Structural:ZC278 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC279 PZ22 PZ27 L CONNECTION Element type: Object	Structural:ZC350 PZ35 PZ40 L CONNECTION Element type: Object

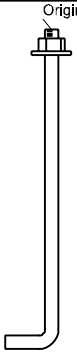
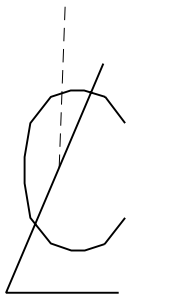
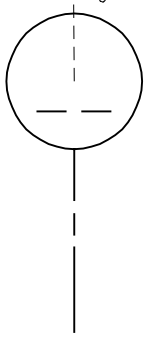
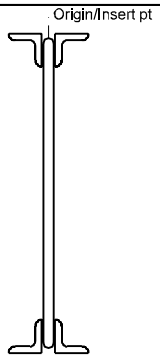
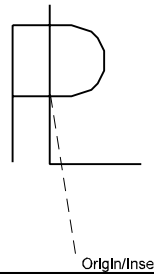
		
Structural:ZC351 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC352 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC353 PZ35 PZ40 L CONNECTION Element type: Object
		
Structural:ZC354 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC355 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC356 PZ35 PZ40 L CONNECTION Element type: Object
		
Structural:ZC357 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC358 PZ35 PZ40 L CONNECTION Element type: Object	Structural:ZC359 PZ35 PZ40 L CONNECTION Element type: Object

		
Structural:ZT270 PZ22 PZ27 T CONNECTION Element type: Object	Structural:ZT271 PZ22 PZ27 T CONNECTION Element type: Object	Structural:ZT350 PZ35 PZ40 T CONNECTION Element type: Object
		
Structural:ZT351 PZ35 PZ40 T CONNECTION Element type: Object	Structural:ZX270 PZ22 PZ27 CROSS CONNECTION Element type: Object	Structural:ZX350 PZ35 PZ40 CROSS CONNECTION Element type: Object

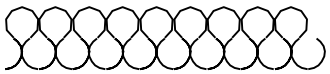
7 Structural Patterns Library

		
Structural:CONCST CONCRETE STONE Element type: Pattern	Structural:EEARTH EXISTING EARTH Element type: Pattern	Structural:GRAVEL GRAVEL Element type: Pattern

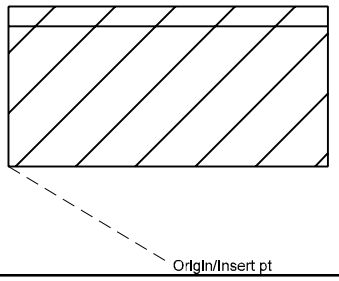
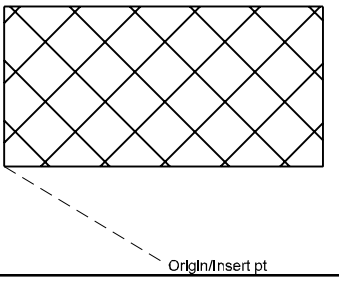
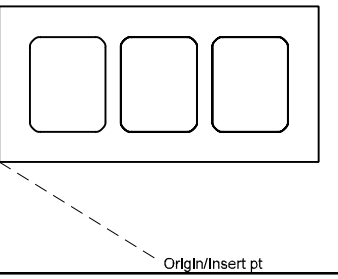
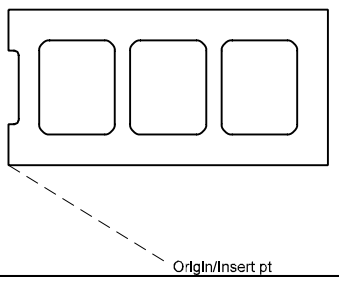
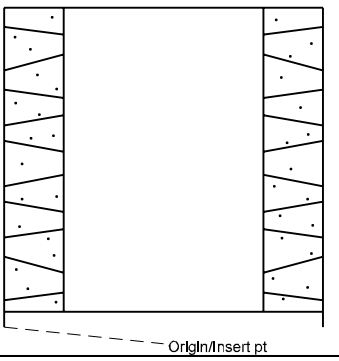
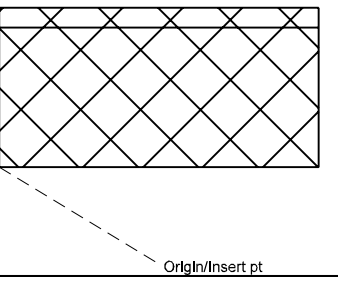
7 Structural Symbols Library

		
Structural:ANBOLT ANCHOR BOLT Element type: Symbol	Structural:CNTLIN CENTERLINE SYMBOL Element type: Symbol	Structural:COLLIN COLUMN LINE GRID INDICATOR Element type: Symbol
		
Structural:JSTBR1 JOIST BAR SINGLE LINE Element type: Symbol	Structural:JSTBR2 JOIST BAR DOUBLE LINE Element type: Symbol	Structural:PLATE PLATE SYMBOL Element type: Symbol

8 Architectural Lines Library

	
Architectural:INBATT LOOSE FILL BATT INSULATION Element type: Line	Architectural:WWFBRC WELDED WIRE FABRIC Element type: Line

8 Architectural Objects Library

		
Architectural:BRKGL GLAZED BRICK Element type: Object	Architectural:CMU MASONRY UNIT Element type: Object	Architectural:CMUBLK CONC BLOCK 8X8X16 Element type: Object
		
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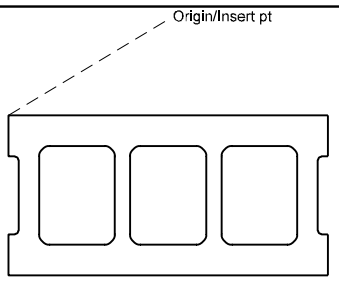	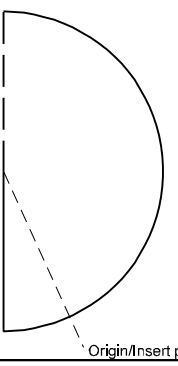	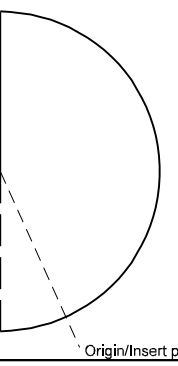
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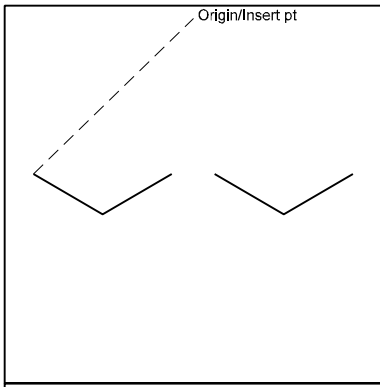	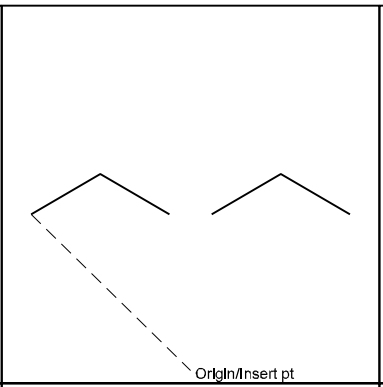	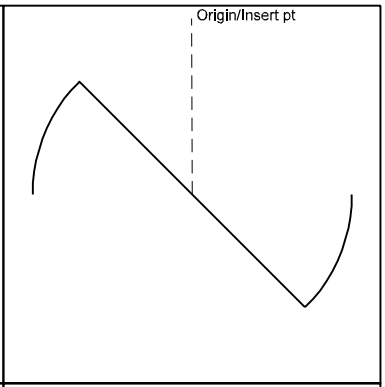
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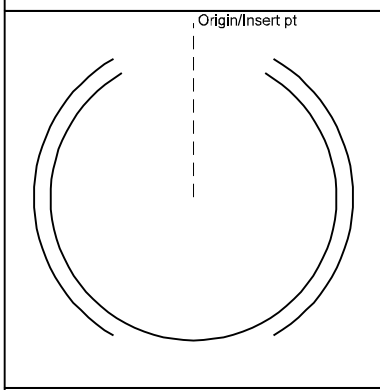	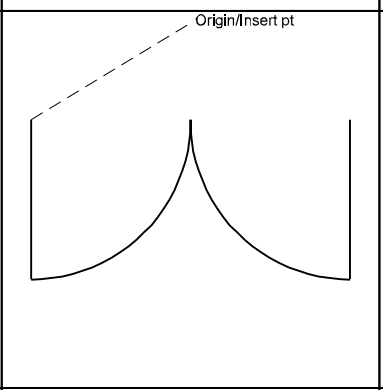	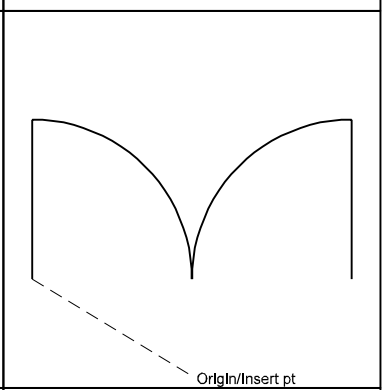
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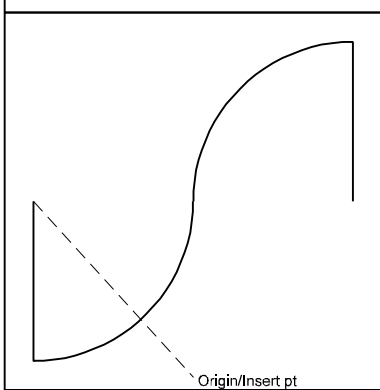	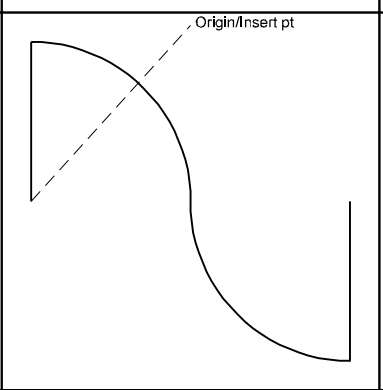	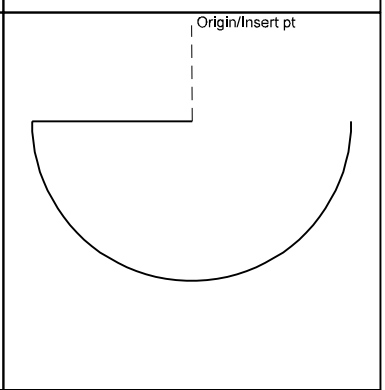
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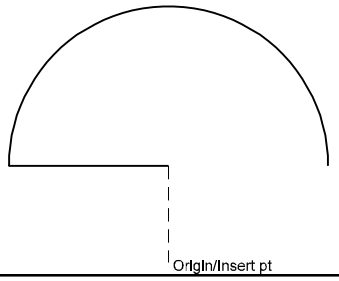	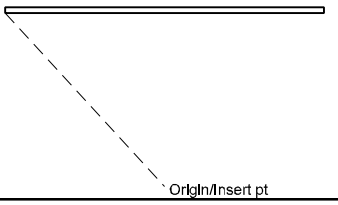	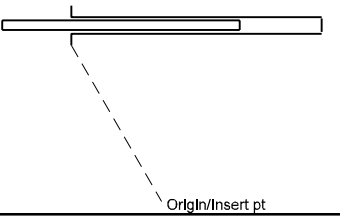
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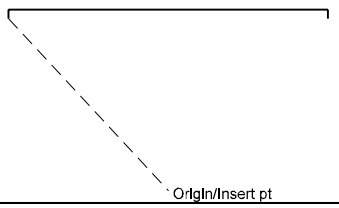	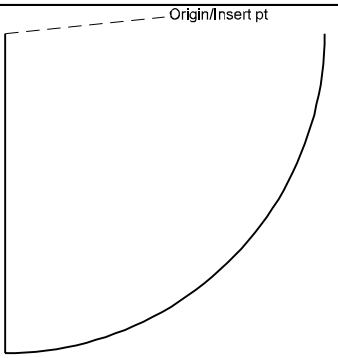	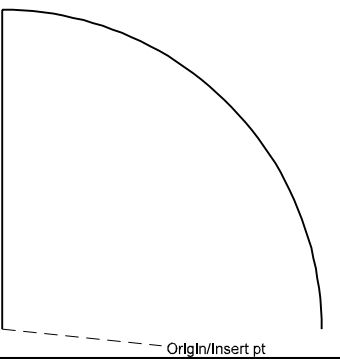
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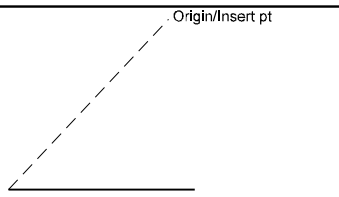	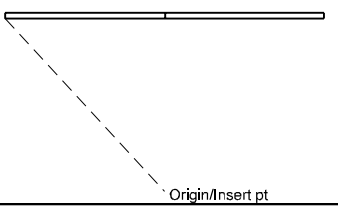	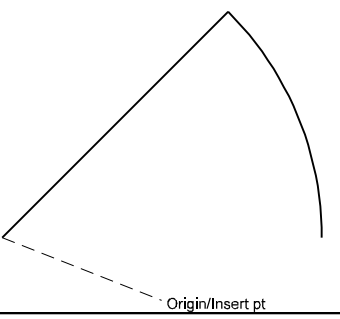
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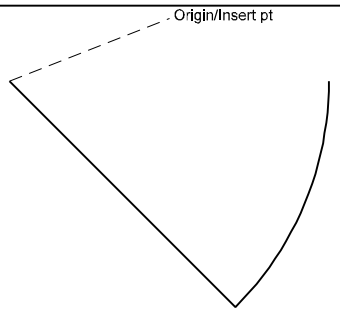	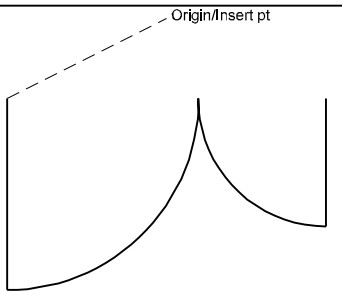	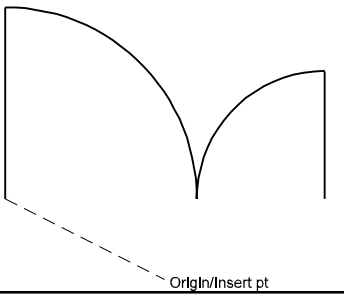
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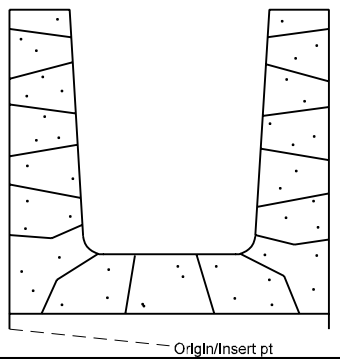	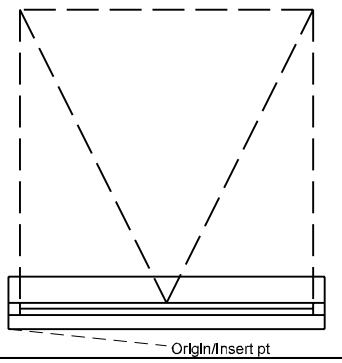	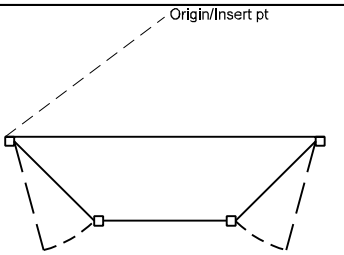
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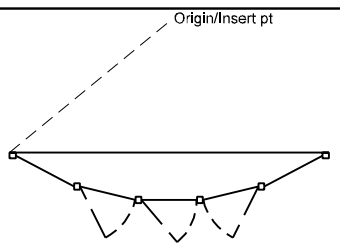	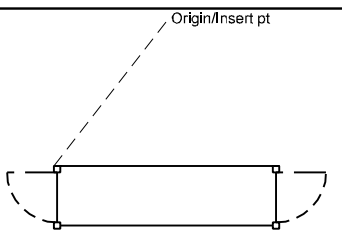	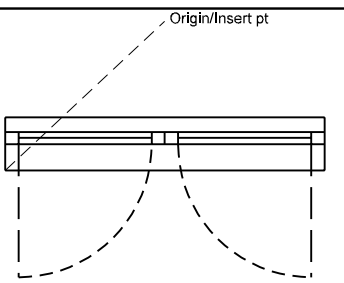
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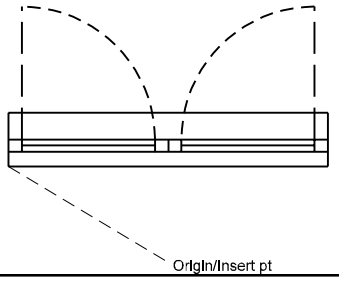	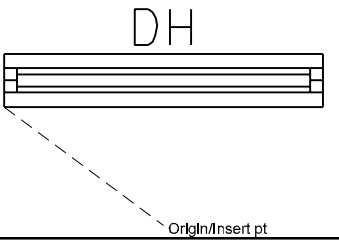	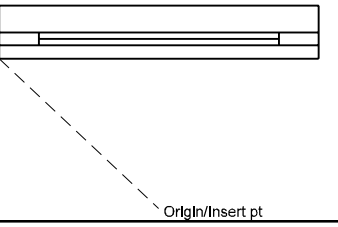
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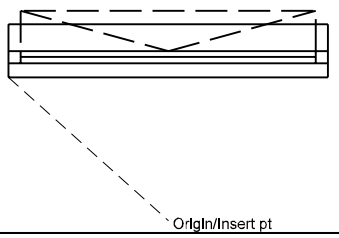	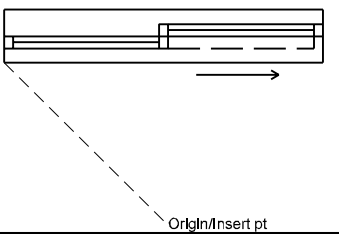	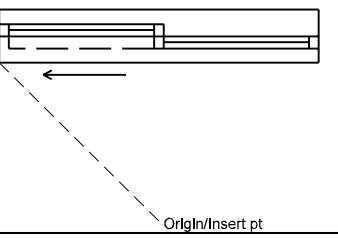
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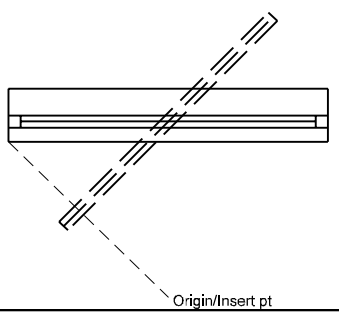
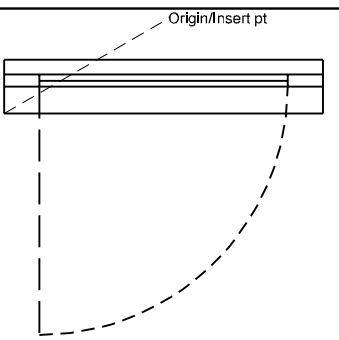
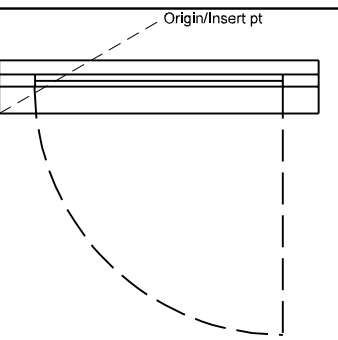
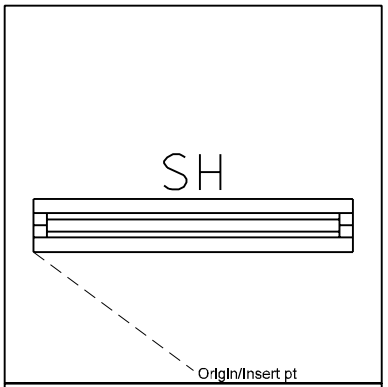
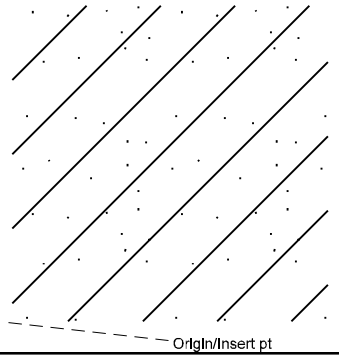
		
Architectural:WINPIV PIVOT WINDOW Element type: Object	Architectural:WINSCL WNDWSNGLCASEMNTLEFTJAMBHING Element type: Object	Architectural:WINSCR WNDWSNGLCASEMNTRGHTJAMBHING Element type: Object

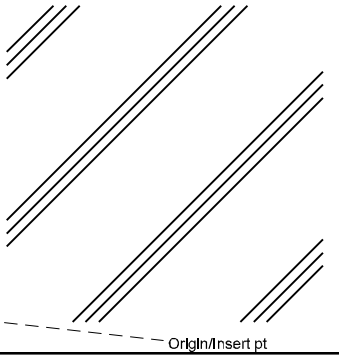


Architectural:WINSH
SINGLE HUNG WINDOW
Element type: Object

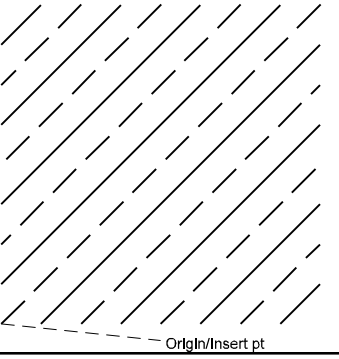
8 Architectural Patterns Library



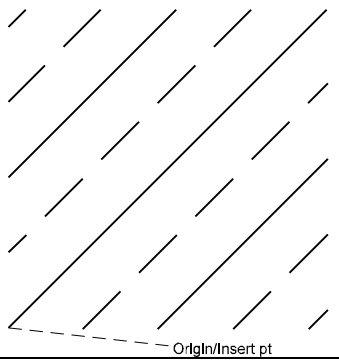
Architectural:ADOBE
MSNRY ADOBE RAMMED EARTHPTN
Element type: Pattern



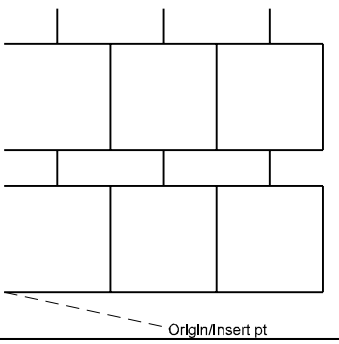
Architectural:ALUMIN
ALUMINUM PATTERN
Element type: Pattern



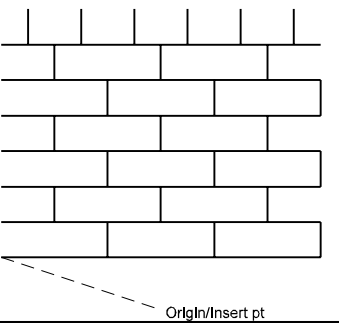
Architectural:ASHLER
STONE ASHLER PATTERN
Element type: Pattern



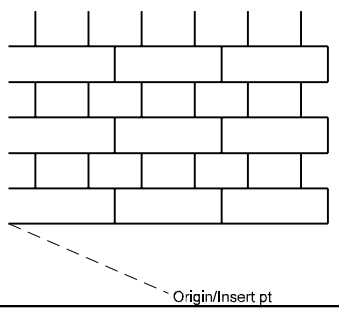
Architectural:BRASS
BRONZE BRASS PATTERN
Element type: Pattern



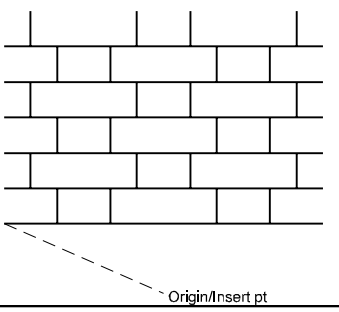
Architectural:BRBLCO
COURSED BRICK BLK PTN
Element type: Pattern



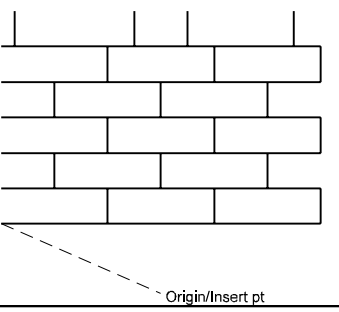
Architectural:BRCOBD
COMMON BOND BRICK PTN
Element type: Pattern



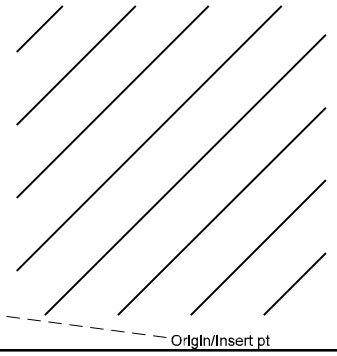
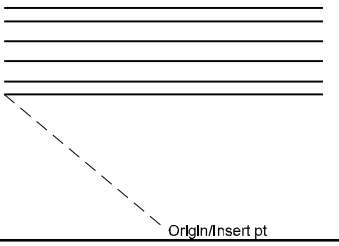
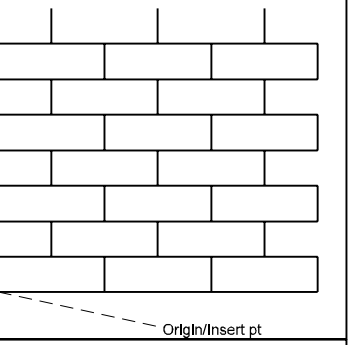
Architectural:BRENBD
ENGLISH BOND BRICK PTN
Element type: Pattern



Architectural:BRFLBD
FLEMISH BOND BRICK PTN
Element type: Pattern



Architectural:BRFLCB
FLEMISH COM BOND PTN
Element type: Pattern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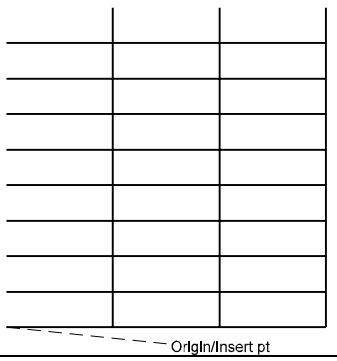
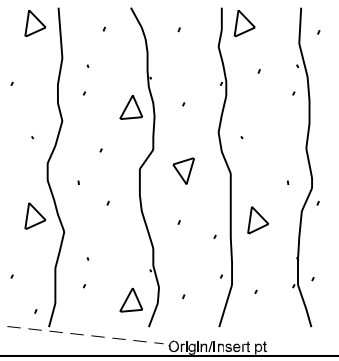
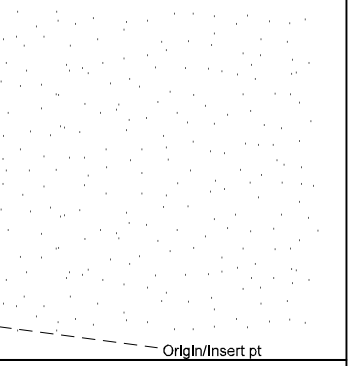
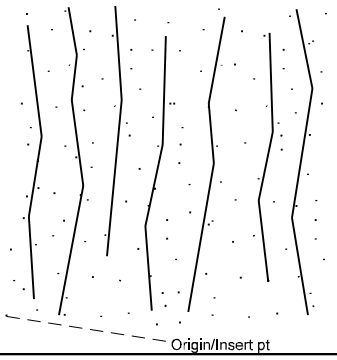
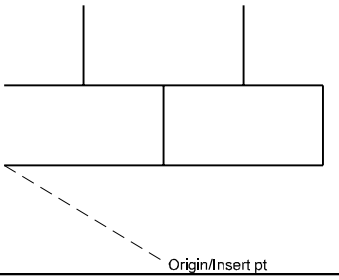
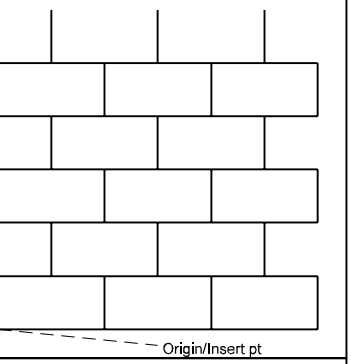
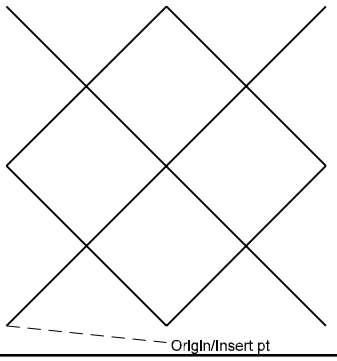
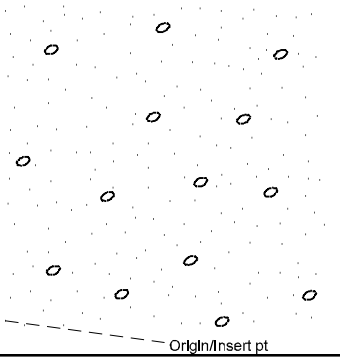
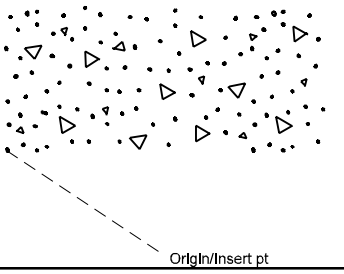
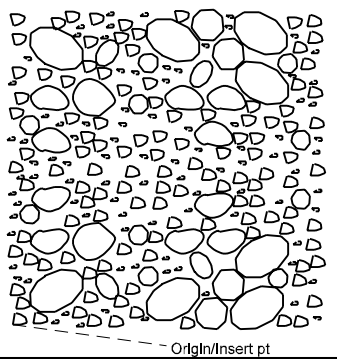
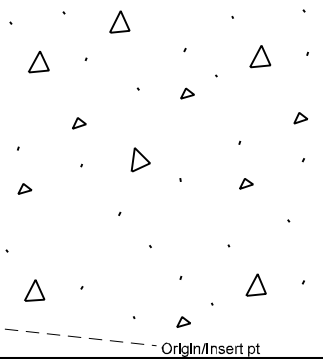
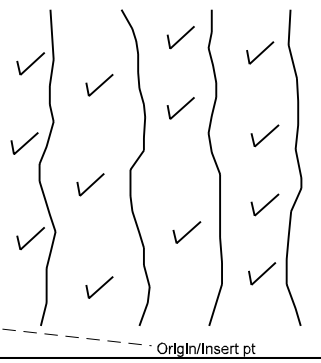
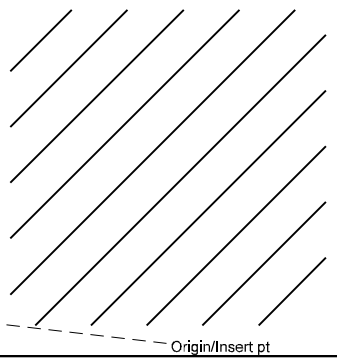
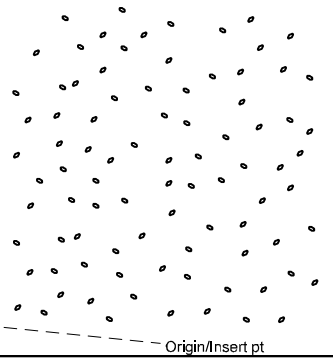
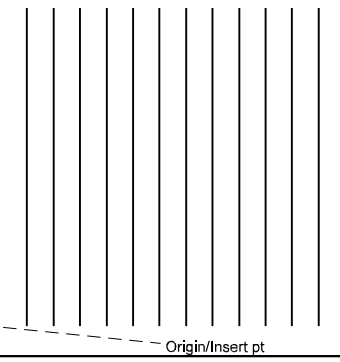
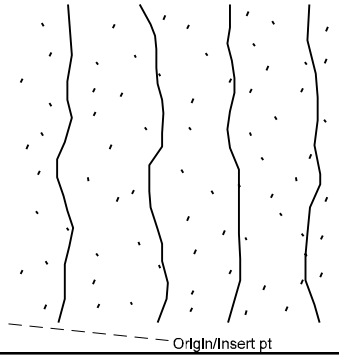
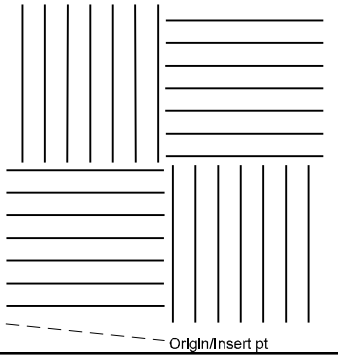
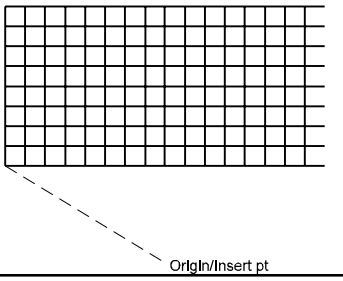
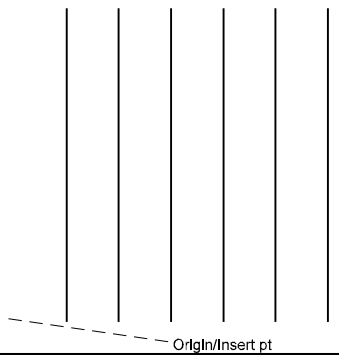
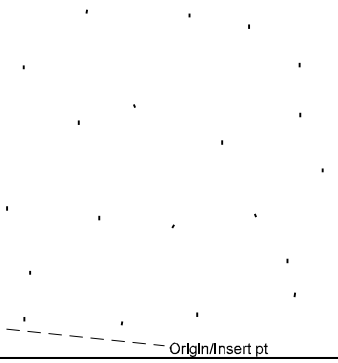
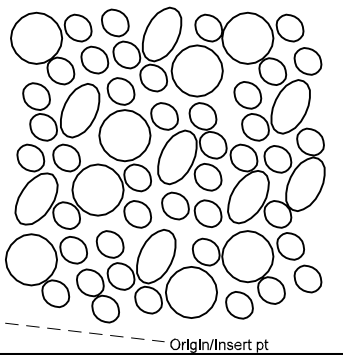
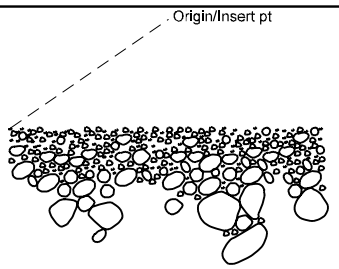
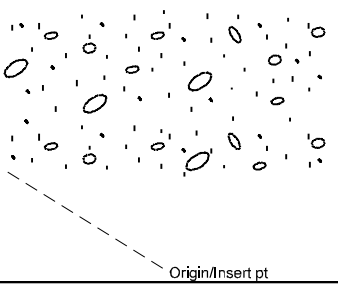
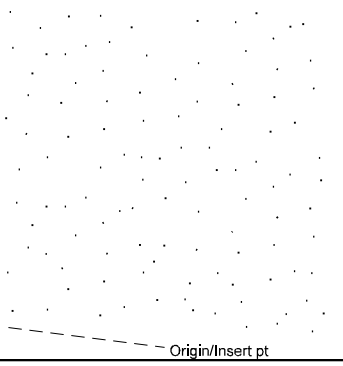
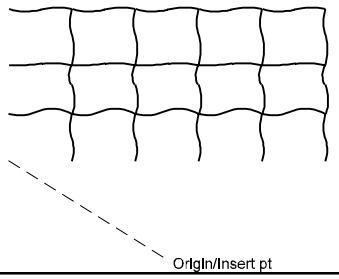
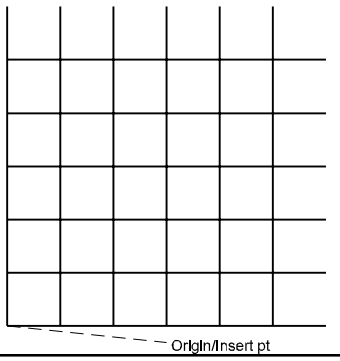
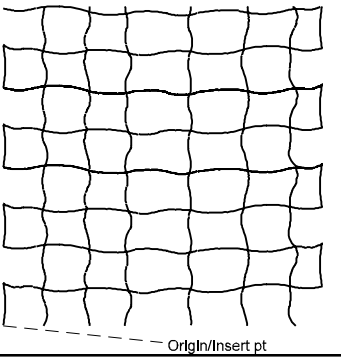
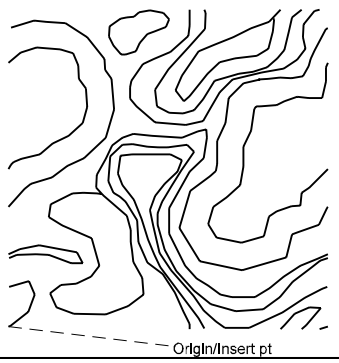
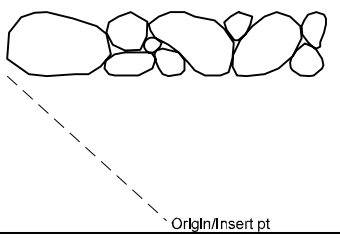
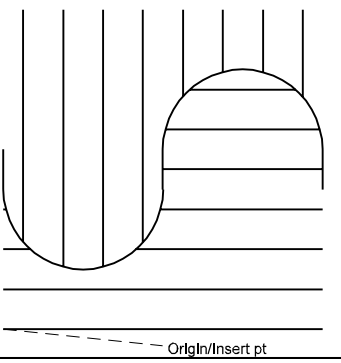
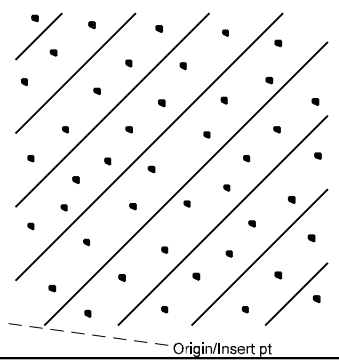
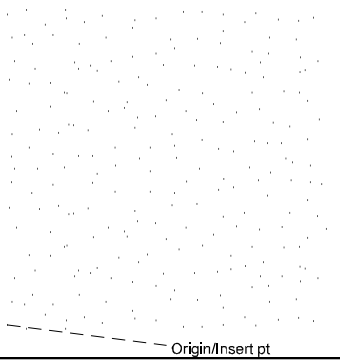
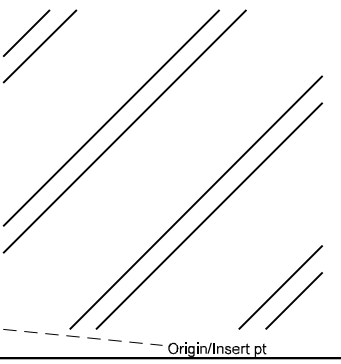
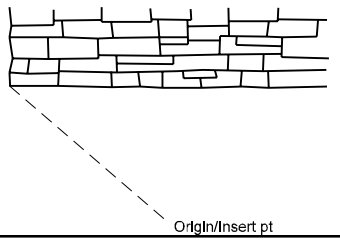
		
Architectural:BRSTBD BRICK STACK BOND PATTERN Element type: Pattern	Architectural:CCBSS CAST CONC BLK SM SCALE PTN Element type: Pattern	Architectural:CCELEV CONC CEMENT ELEV PTN Element type: Pattern
		
Architectural:CDTOP CEMENTITIOUSDECK TOPPINGPTN Element type: Pattern	Architectural:CMUBP CMU BLOCK PATTERN Element type: Pattern	Architectural:CMUELB ELEVATION BLOCK PTN Element type: Pattern

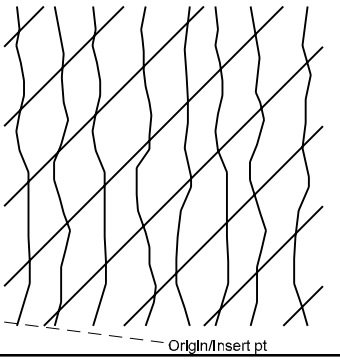
		
Architectural:CONBLK CONCRETE BLOCK PATTERN Element type: Pattern	Architectural:CONCCN CONCRETE CINDER Element type: Pattern	Architectural:CONCLW CONCRETE LIGHT WEIGHT Element type: Pattern
		
Architectural:CONCPR PRECAST CASTIN PLACECONCPTN Element type: Pattern	Architectural:CONCST CONCRETE STONE Element type: Pattern	Architectural:CONPBS PUMICE BLK CONC SMSCALE PTN Element type: Pattern
		
Architectural:CSTIRN CAST IRON PATTERN Element type: Pattern	Architectural:CSTSTN CAST STONE PATTERN Element type: Pattern	Architectural:CTILSS CERAMIC TILE SM SCALE Element type: Pattern

		
Architectural:CUTSTN CUT STONE PATTERN Element type: Pattern	Architectural:EARTH COMPACTD FILL EARTHWRK PTN Element type: Pattern	Architectural:FIBFSF FIBROUS FIRE SAFING PTN Element type: Pattern
		
Architectural:GLASS STRUCTURAL GLASS PTN Element type: Pattern	Architectural:GROUT GROUT Element type: Pattern	Architectural:GRVCRE CRUSHED ROCK EARTH GRVL PTN Element type: Pattern
		
Architectural:GRVPFE POROUSFILLGRAVLEARTHWRKPTN Element type: Pattern	Architectural:GRVSCL SAND CLAY GRAVEL PATTERN Element type: Pattern	Architectural:GYPPPE GYPSUM PLASTERPLAN ELEV PTN Element type: Pattern

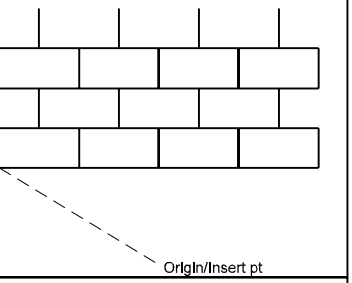
		
Architectural:INSQLT LRGSCALE INSULATNQUILTSPTN Element type: Pattern	Architectural:INSRIG RIGID INSULATION PATTERN Element type: Pattern	Architectural:INSSCM SOLIDCORKMAGNESIA INSULPTN Element type: Pattern
		
Architectural:MARBL2 MARBLE STONE PLAN VIEW Element type: Pattern	Architectural:RIPRAP RIPRAP PATTERN Element type: Pattern	Architectural:ROCK ROCK EARTHWORK PATTERN Element type: Pattern
		
Architectural:RUBBLE STONE RUBBLE PATTERN Element type: Pattern	Architectural:SAND SAND PATTERN Element type: Pattern	Architectural:STEEL STEEL OTHER METALS PATTERN Element type: Pattern



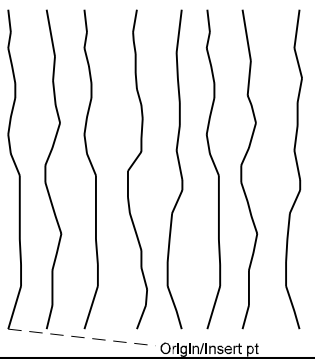
Architectural:STNSQR
SQUARED STONE PATTERN
Element type: Pattern



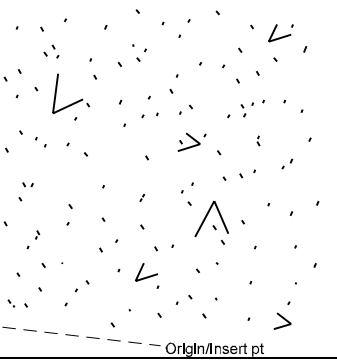
Architectural:TCBCSS
TERACOTA SMSCALE BRICKCOTA
Element type: Pattern



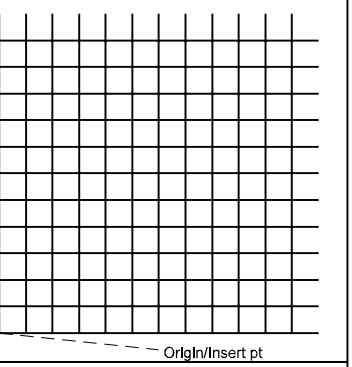
Architectural:TCELEV
TERRA COTTA ELEVATION PTN
Element type: Pattern



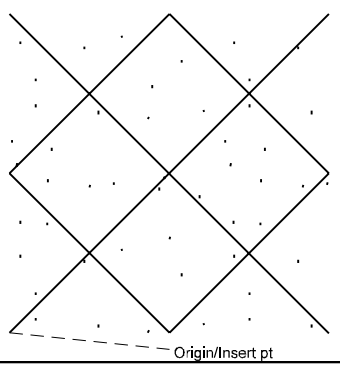
Architectural:TCUSS
TERACOTA SMSCALE UNGLZDPTN
Element type: Pattern



Architectural:TERRZO
TERRAZZO PATTERN
Element type: Pattern

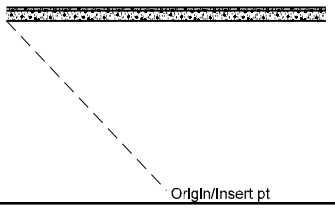
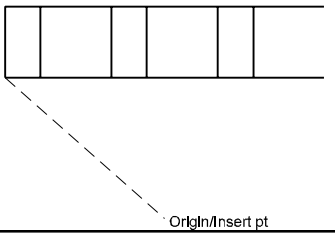
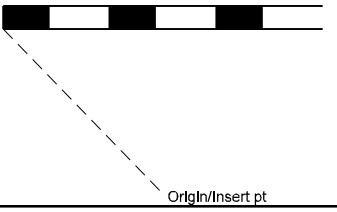
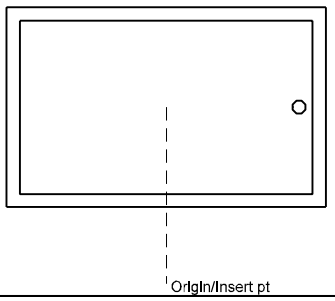
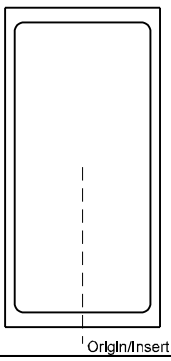
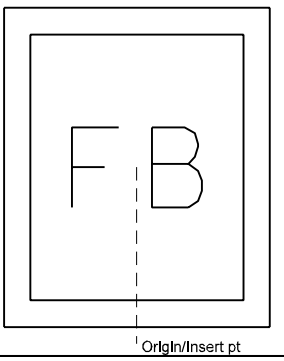
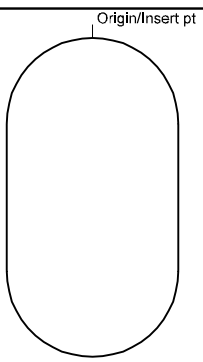
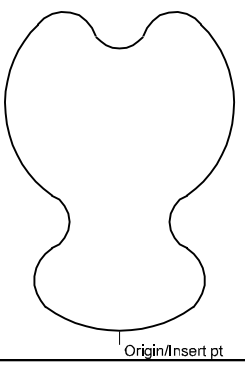
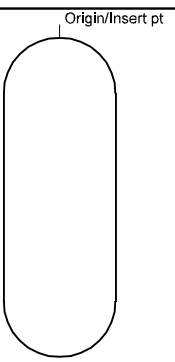


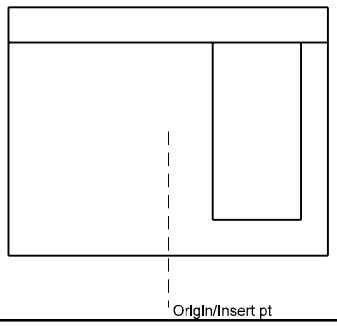
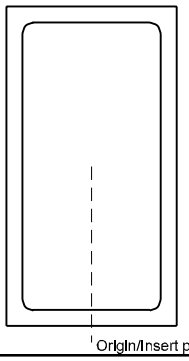
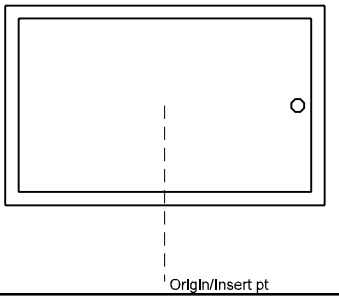
Architectural:TILCER
CERAMIC TILE ELEVATION PTN
Element type: Pattern



Architectural:TILESF
STRUCTURAL FACING TILE PTN
Element type: Pattern

8 Architectural Symbols Library

		
Architectural:ARCPBW ARCHTCTRL PARTICLEBRD WDWK Element type: Symbol	Architectural:ASBDLS LARGE SCALE ASBESTOS BOARD Element type: Symbol	Architectural:ASBDSS SMALL SCALE ASBESTOS BOARD Element type: Symbol
		
Architectural:BATHCO CORNER BATH Element type: Symbol	Architectural:BATHEM EMERGENCY BATH Element type: Symbol	Architectural:BATHFT FOOT BATH Element type: Symbol
		
Architectural:BATHHA HYDROTHERAPY ARM BATH Element type: Symbol	Architectural:BATHHH HYDROTHERAPY HUBBARD BATH Element type: Symbol	Architectural:BATHHL HYDROTHERAPY LEG BATH Element type: Symbol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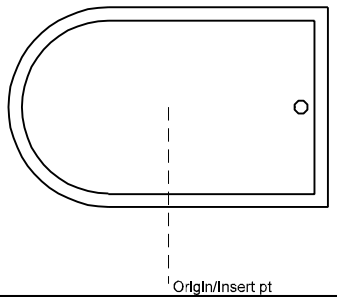	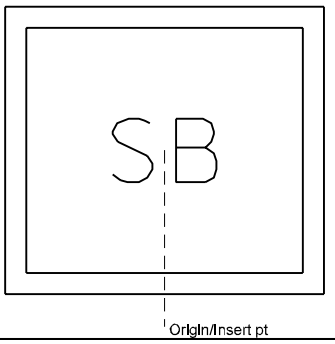	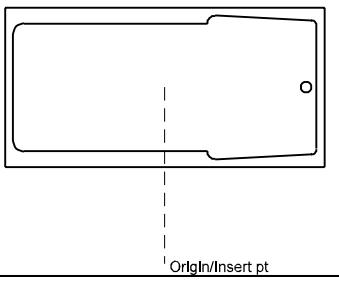
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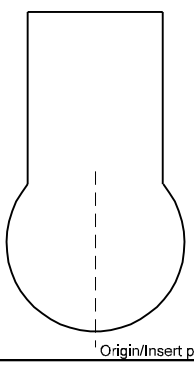	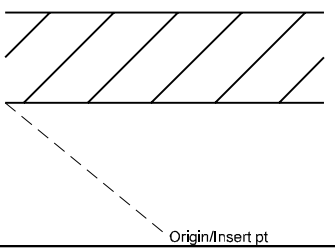	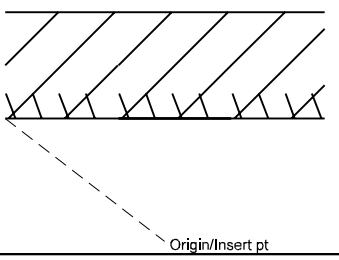
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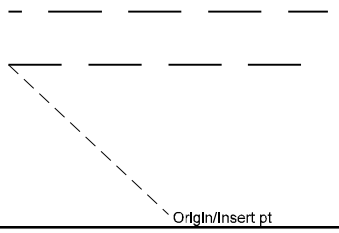	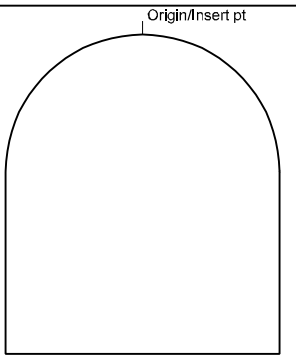	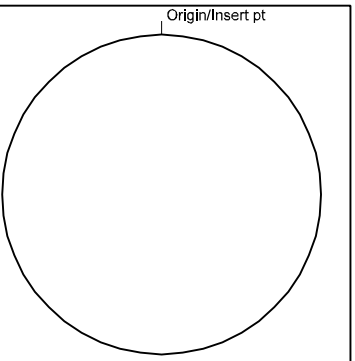
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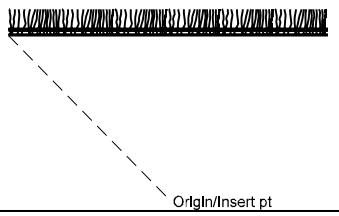	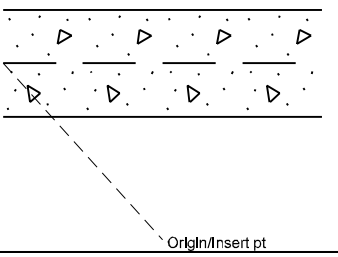	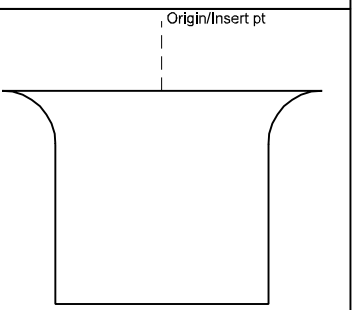
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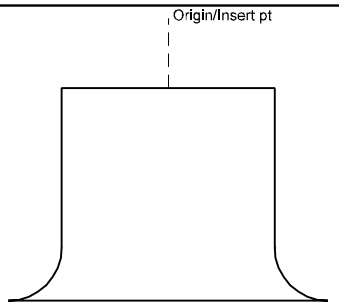	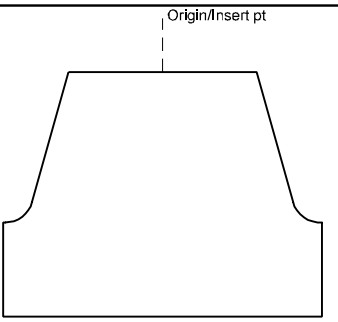	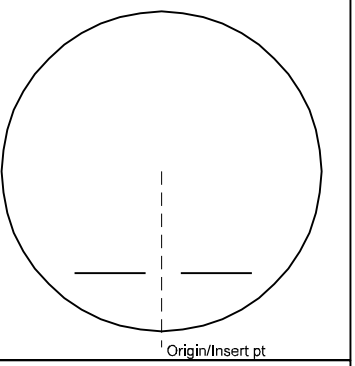
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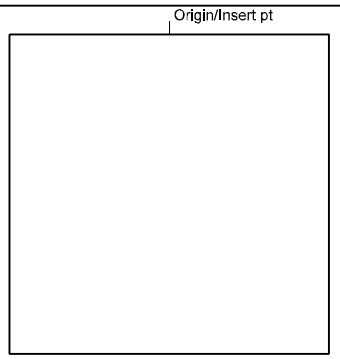	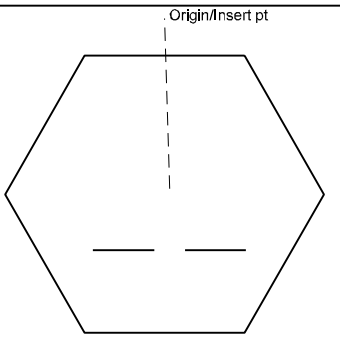	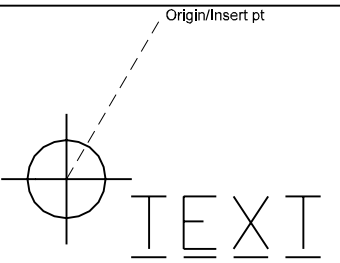
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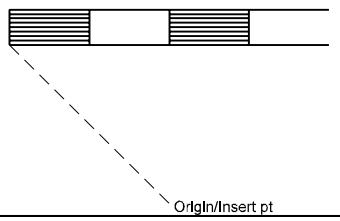
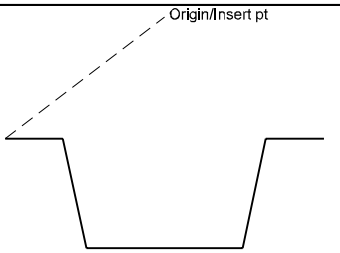
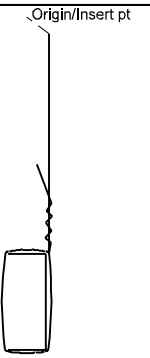
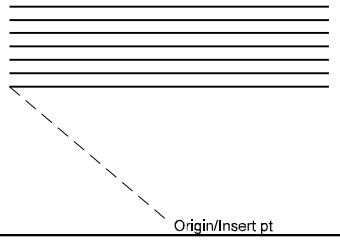
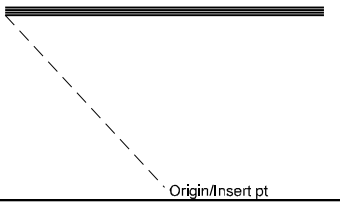
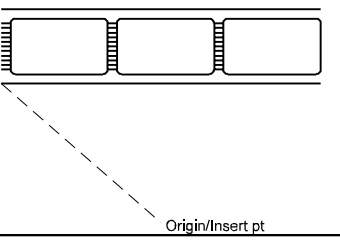
		
Architectural:FLRRPL FLOORINGRESILIENT PLSTC LAM Element type: Symbol	Architectural:FURCHH FURRING CHANNEL HAT Element type: Symbol	Architectural:FURCHN FURRING CHANNEL Element type: Symbol
		
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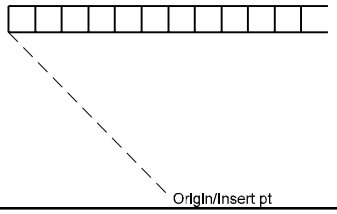	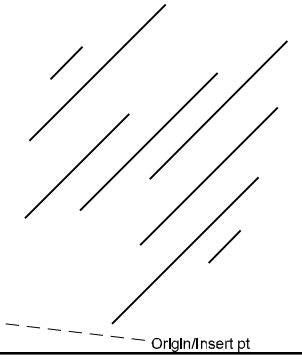	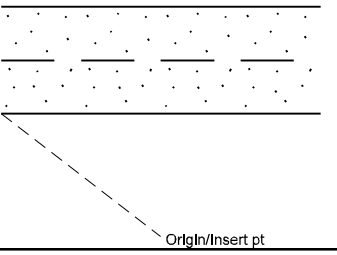
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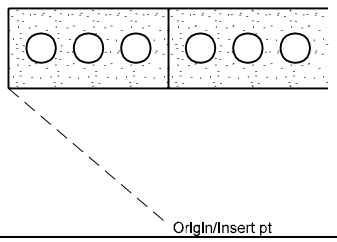	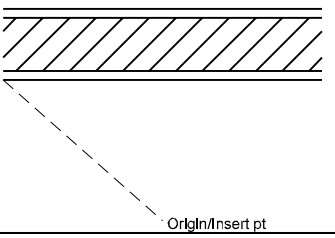	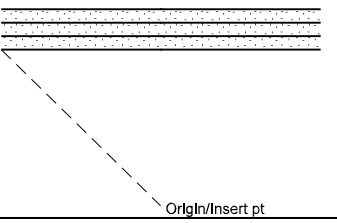
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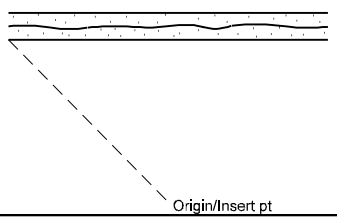	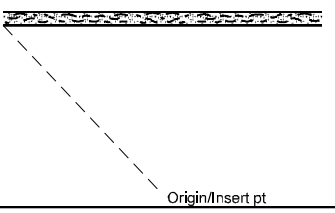	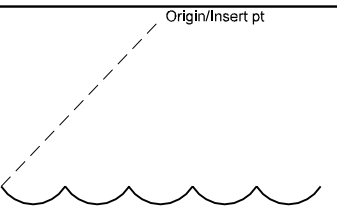
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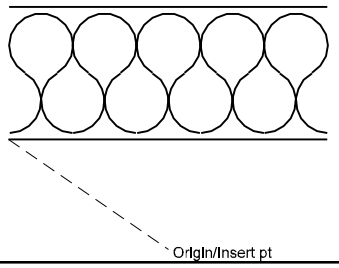	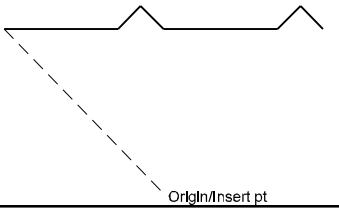	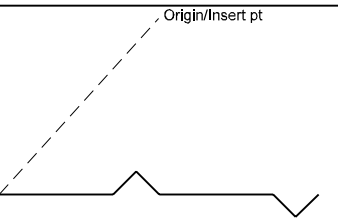
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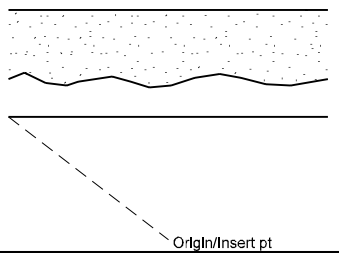	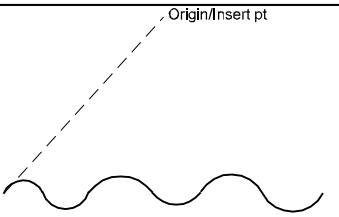	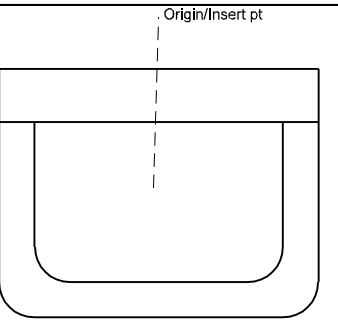
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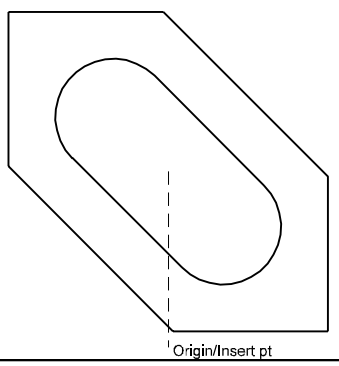	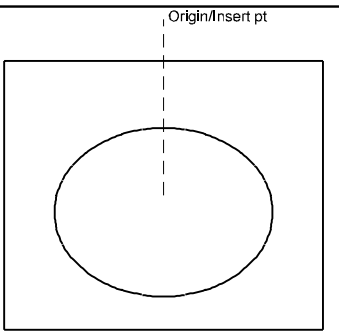	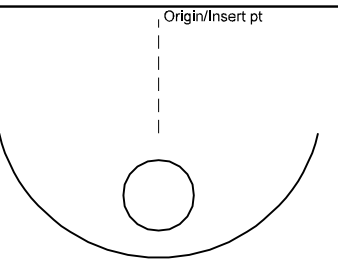
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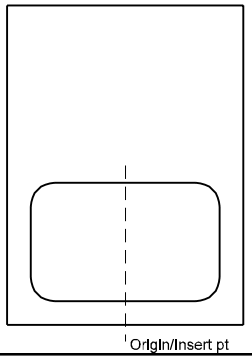	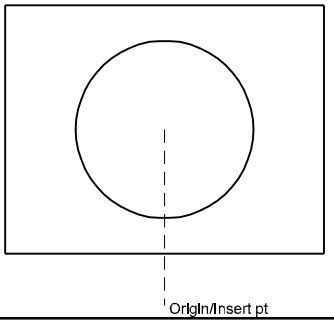	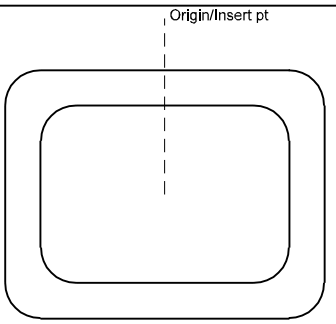
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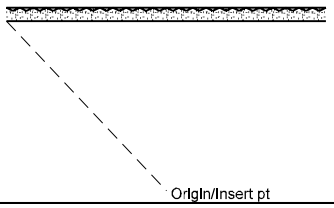	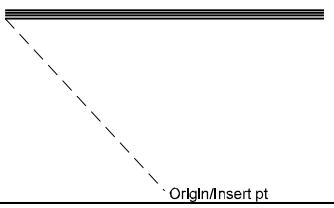	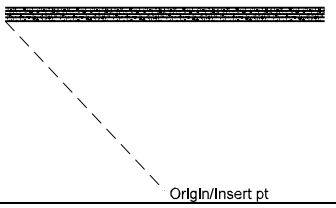
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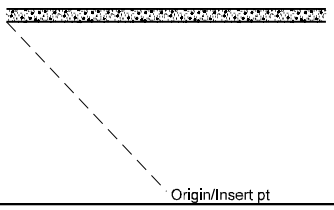	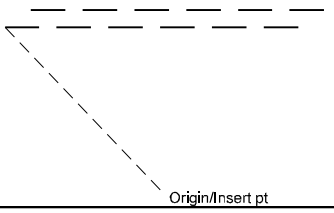	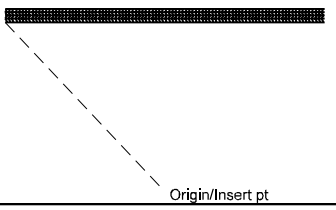
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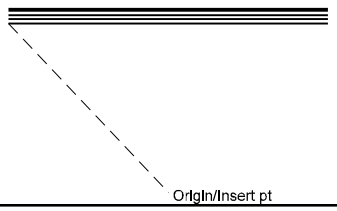	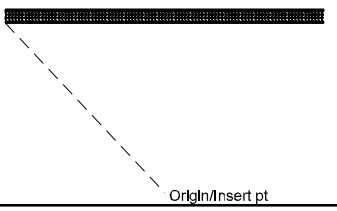	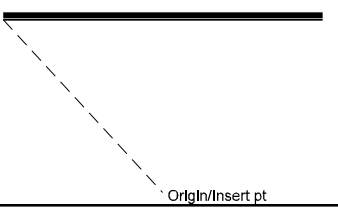
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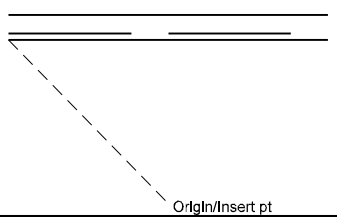	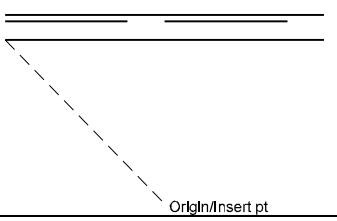	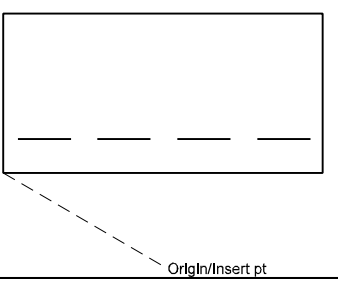
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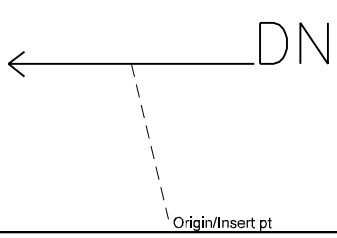	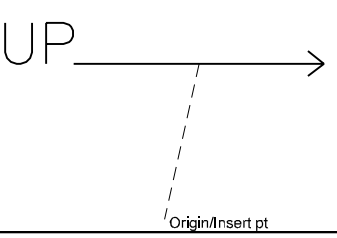	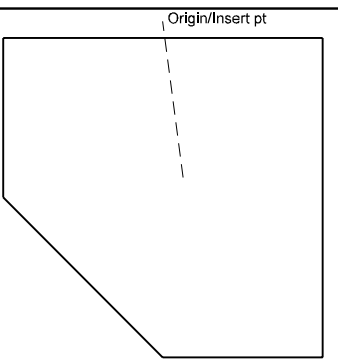
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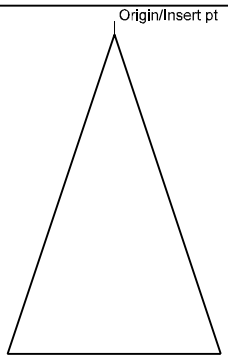	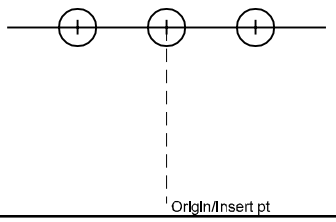	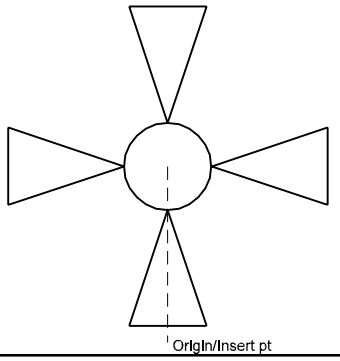
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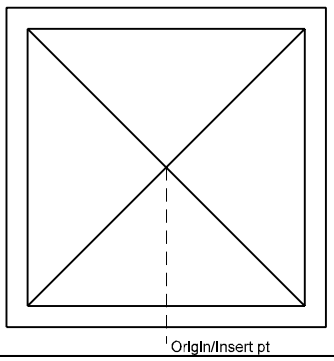	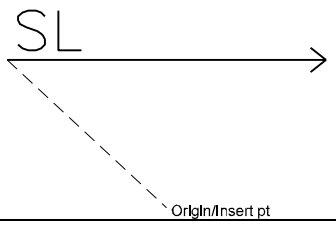	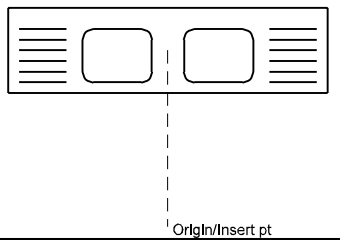
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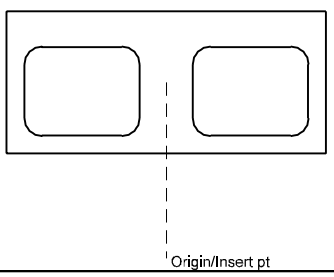	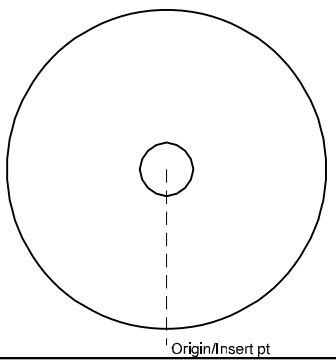	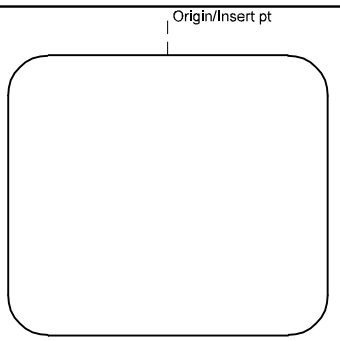
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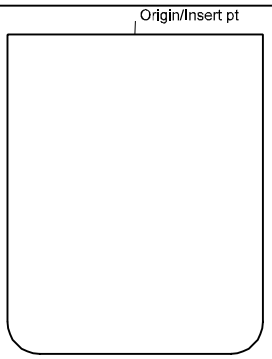	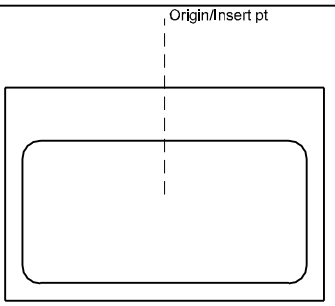	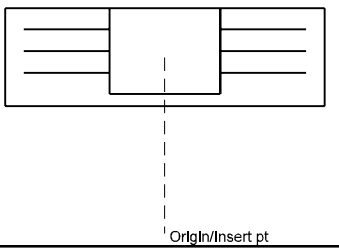
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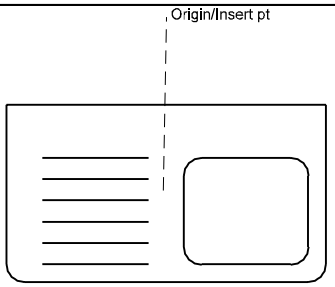	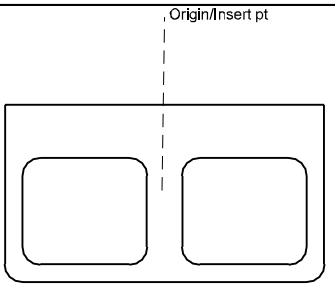	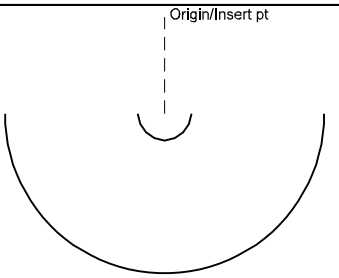
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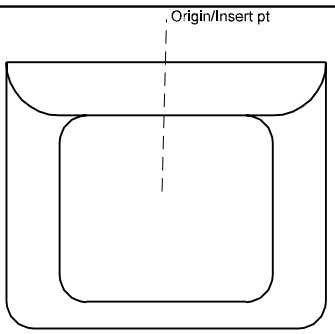	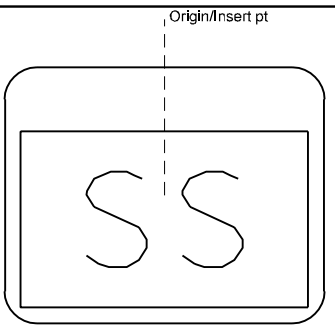	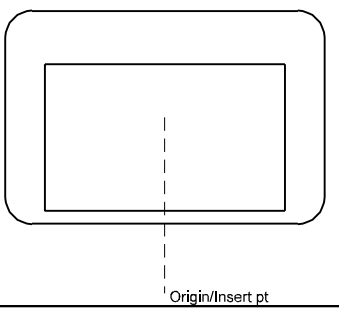
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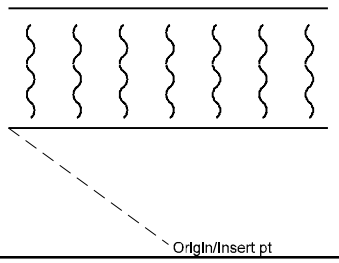	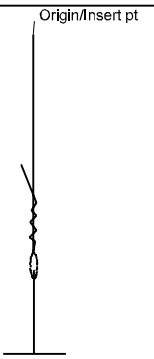	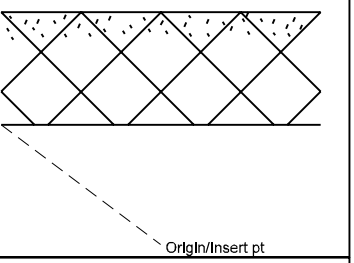
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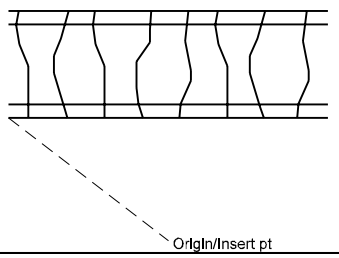
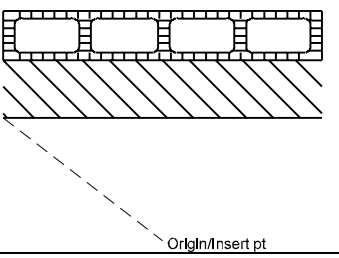
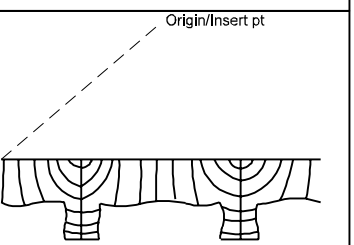
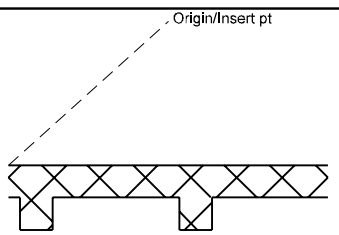
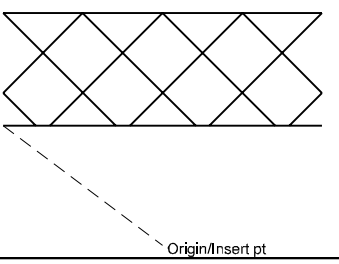
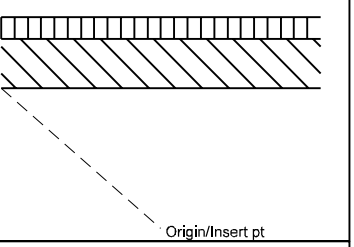
		
Architectural:TC2FSS TERACOTA GLZD2FACES SMSCALE Element type: Symbol	Architectural:TCHOLW HOLLOW TERRA COTTA Element type: Symbol	Architectural:TCLS LARGE SCALE TERRA COTTA Element type: Symbol
		
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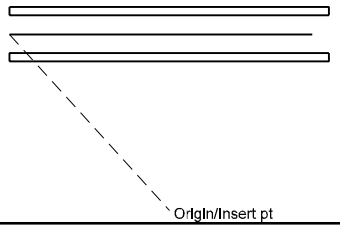	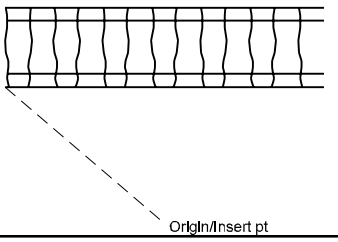	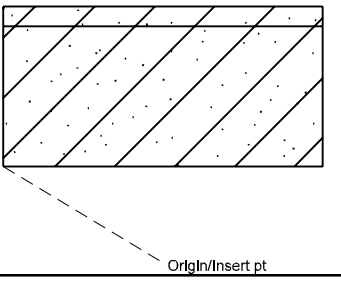
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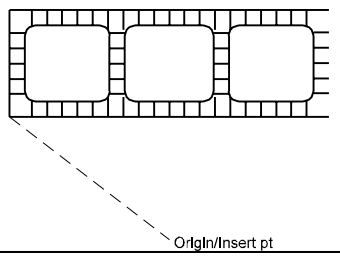
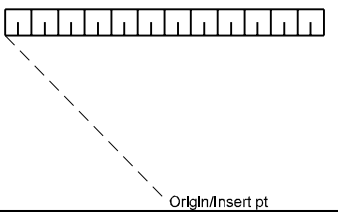
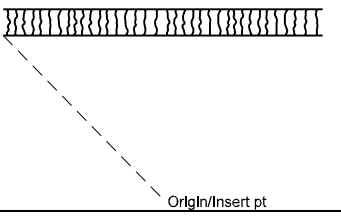
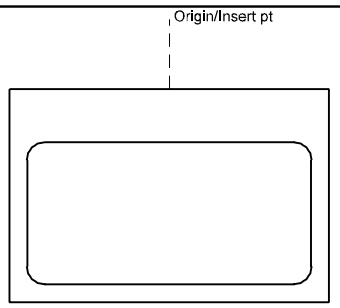
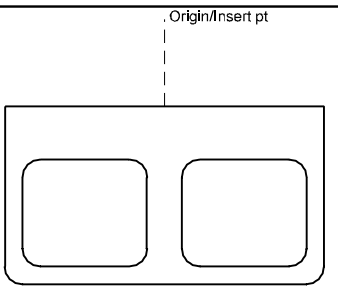
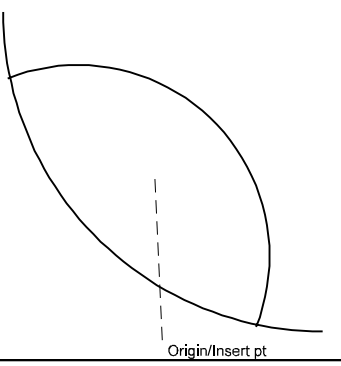
		
Architectural:TILSFU TILE STRUCTURAL FLOOR UNITS Element type: Symbol	Architectural:TLACOU ACOUSTICAL TILE FINISH Element type: Symbol	Architectural:TLCRLS CERAMICTILE FINISH LRGSCALE Element type: Symbol
		
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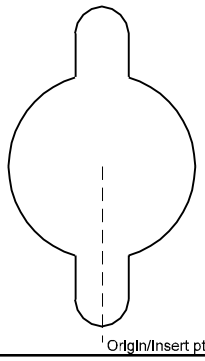	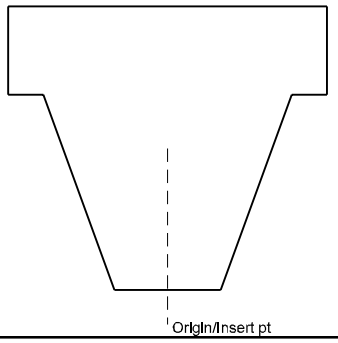	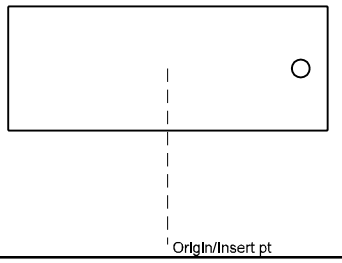
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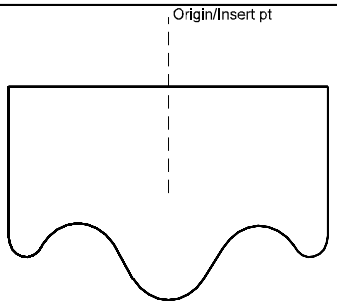	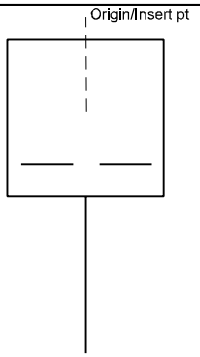	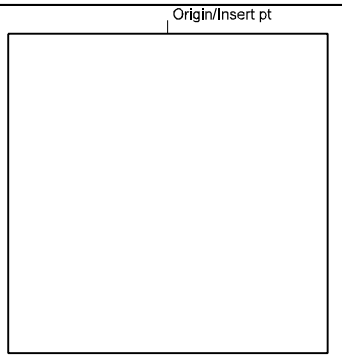
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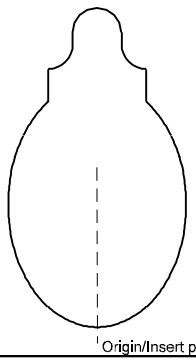	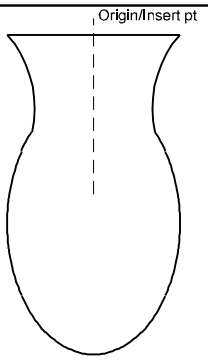	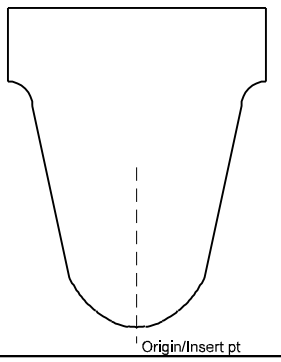
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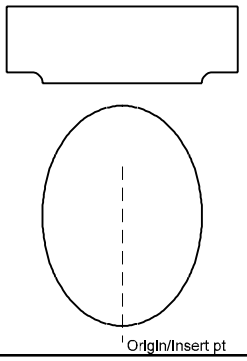	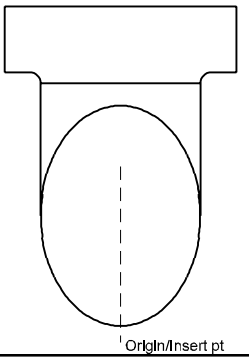	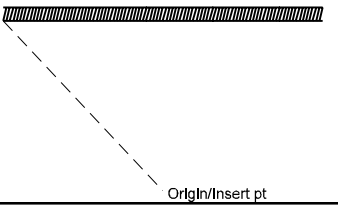
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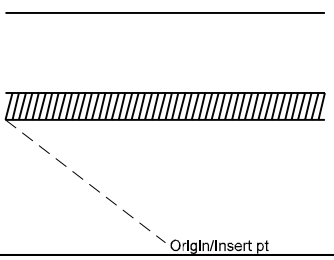	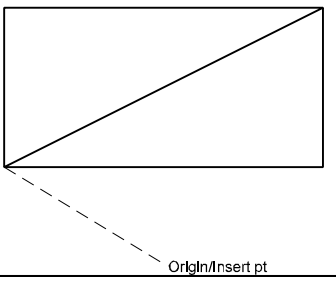	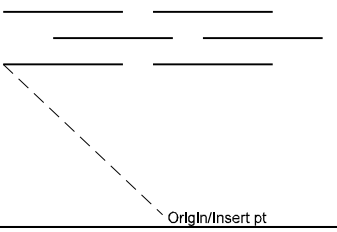
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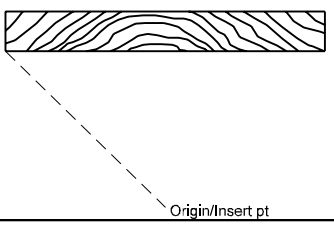	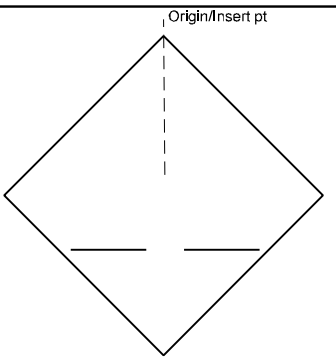	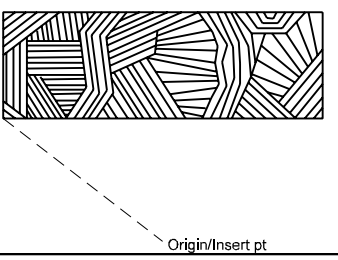
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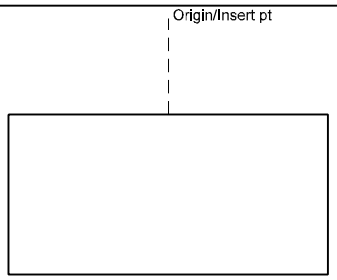	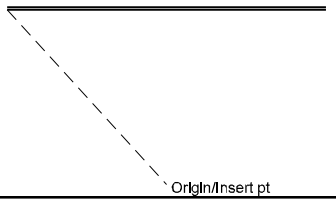
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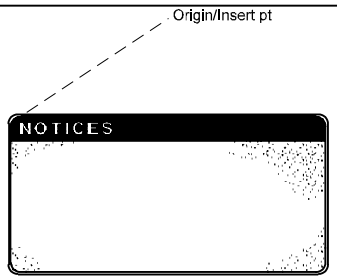
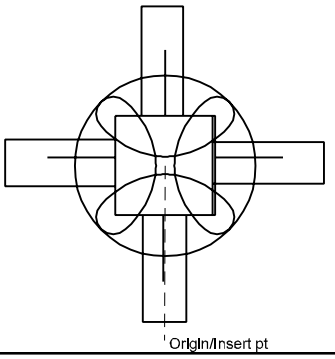
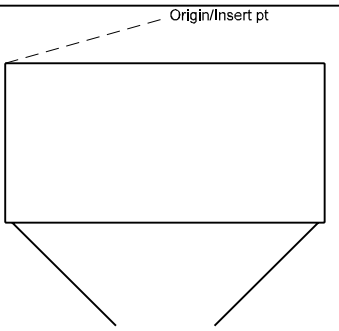
9 Interiors Objects Library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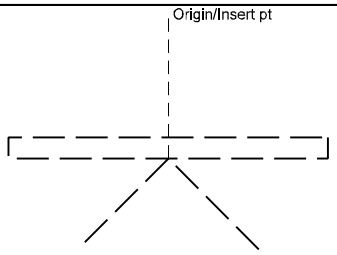	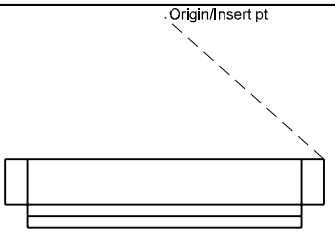	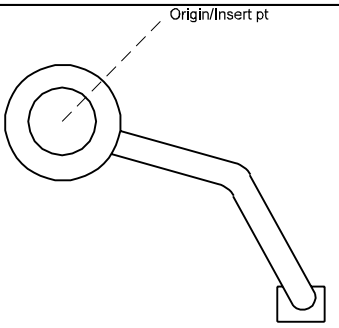
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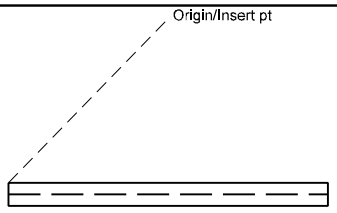	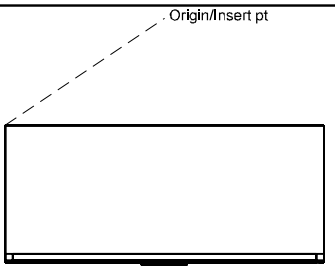	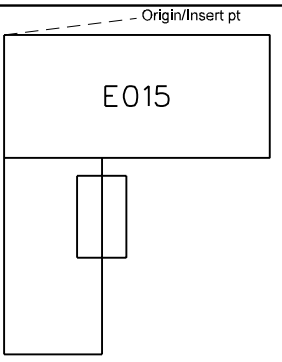
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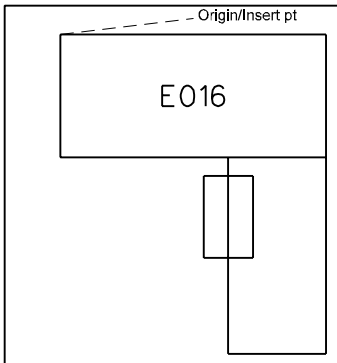

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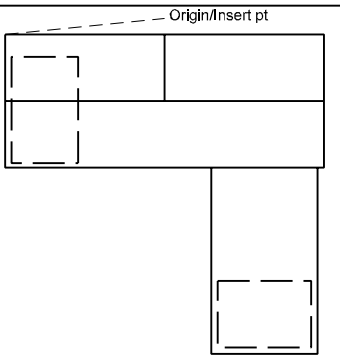

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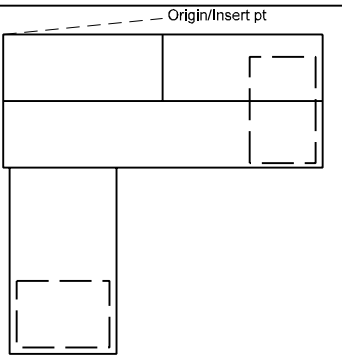
LH SNGL PED DESK 72W X 30D2
Element type: Object



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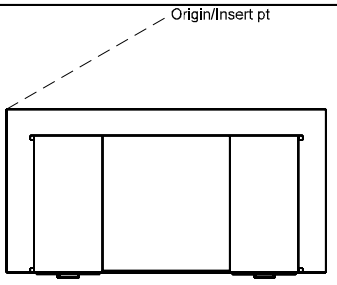

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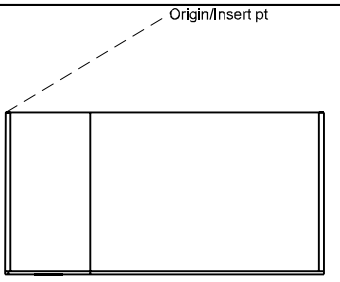
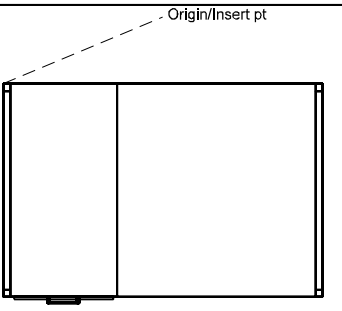
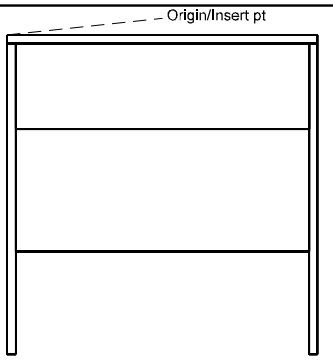
DESK DOUBLE FILE PEDESTAL
Element type: Object



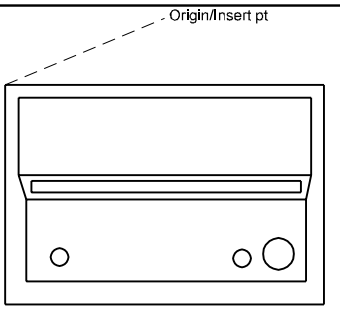
Interiors: DPFL
DESK LEFT PEDESTAL
Element type: Object



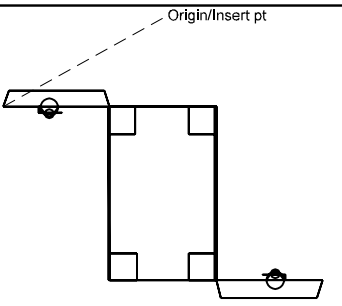
Interiors: DPFR
DESK RETURN PEDESTAL FILE
Element type: Object



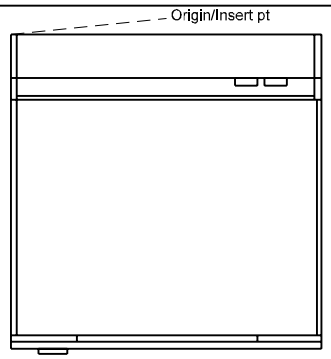
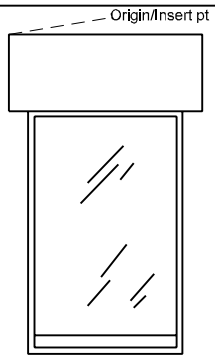
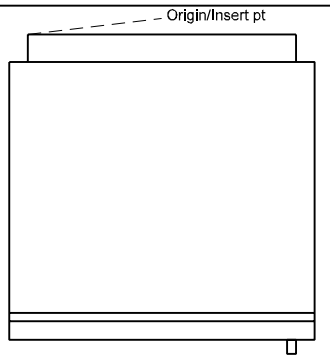
Interiors: DSC1
DESK STUDY CARREL SINGLE
Element type: Object



Interiors: ECGAME
FREESTANDING COMPUTER GAME
Element type: Object



Interiors: ECOMCN
COMSEC CONTAINER
Element type: Object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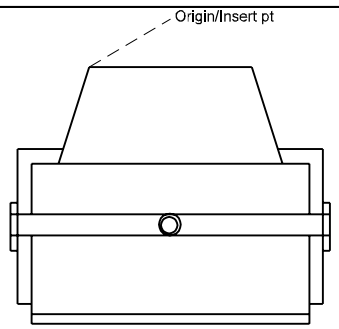	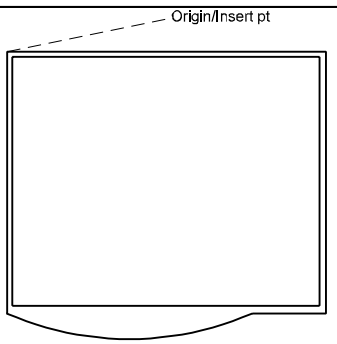	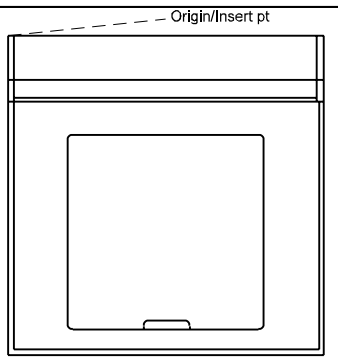
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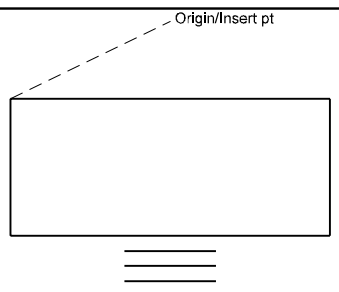
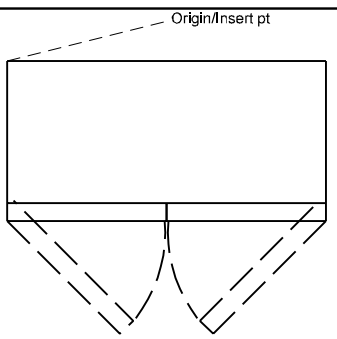
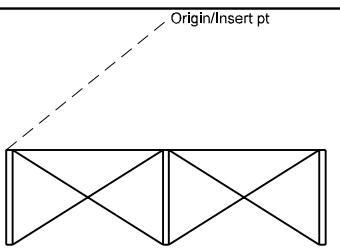
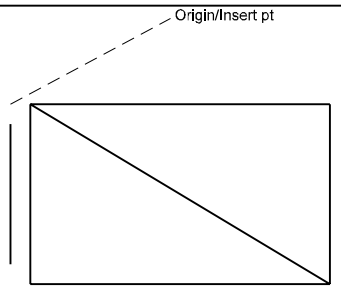
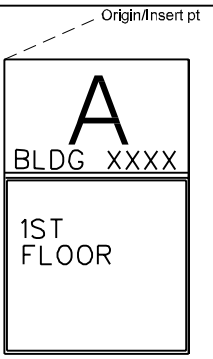
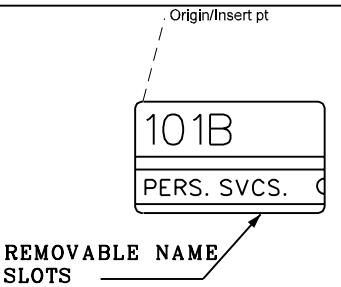
		
Interiors: F4DL LATERAL FILE CABINET 4 DRAW Element type: Object	Interiors: FC3618 STORAGE CABINET 36W X 18D Element type: Object	Interiors: FE7422 EQUIP SHELVNG 74WX22D BRRKS Element type: Object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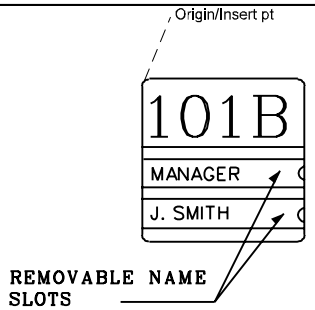
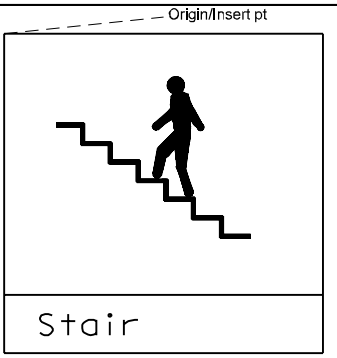
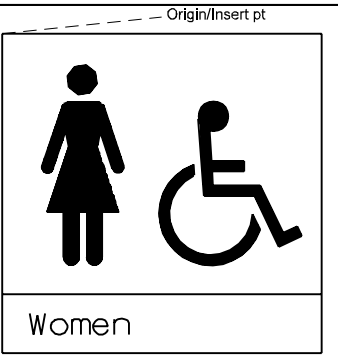
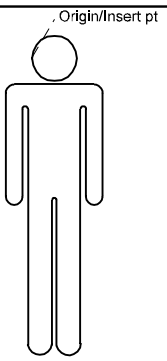
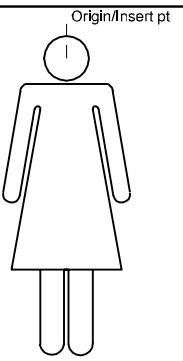
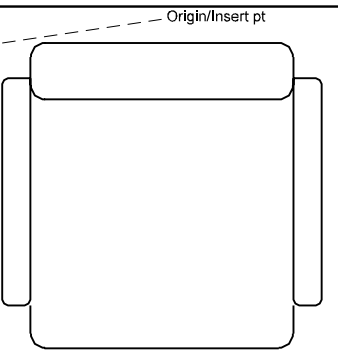
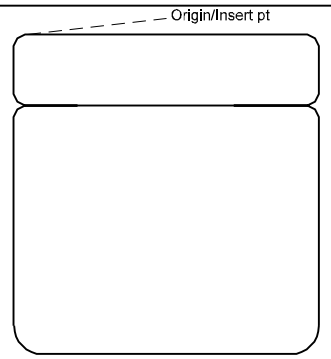
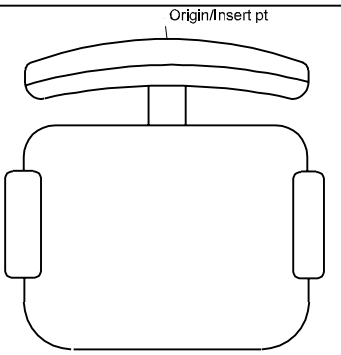
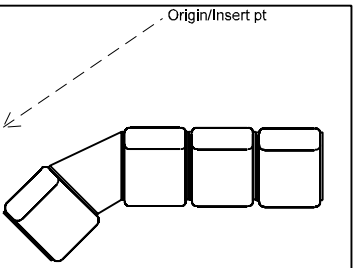
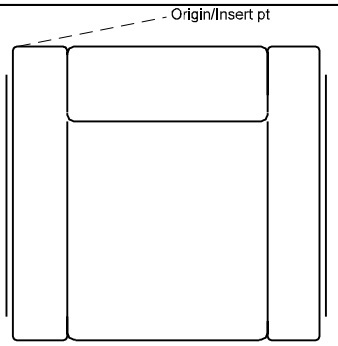
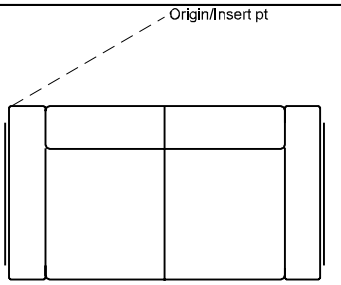
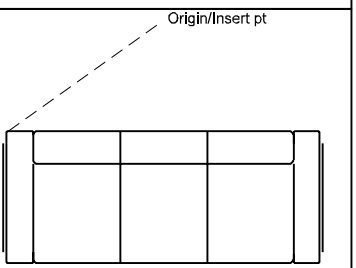
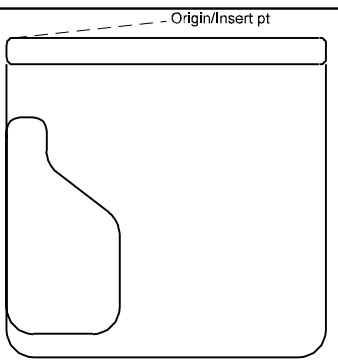
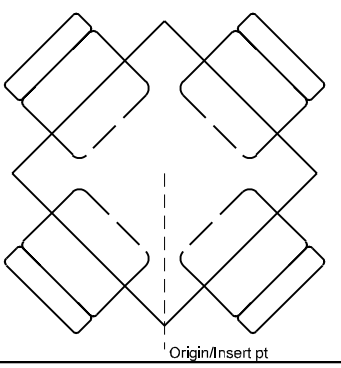
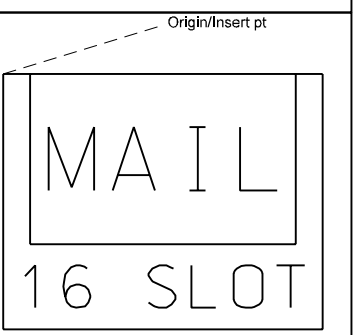
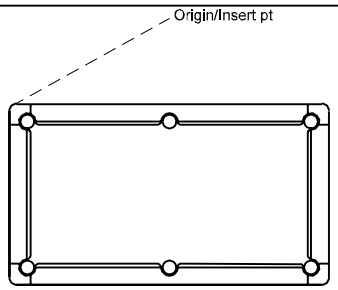
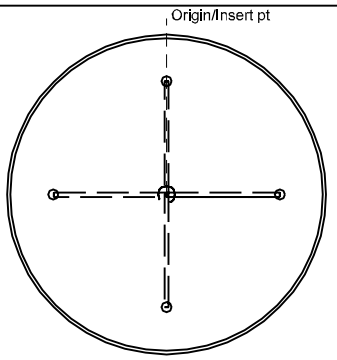
		
Interiors: GIIS2 IDENT SIGN WITH 2 SLOTS Element type: Object	Interiors: GIPIC1 PICTOGRAM1 Element type: Object	Interiors: GIPIC2 PICTOGRAM 2 Element type: Object
		
Interiors: GMAN MAN SYM FR RESTROOM SIGNAGE Element type: Object	Interiors: GWOMAN WOMAN SYMFOR RESTRM SGNAGE Element type: Object	Interiors: SDMGT MGMNT CHAIR W ARMS 24WX22D Element type: Object

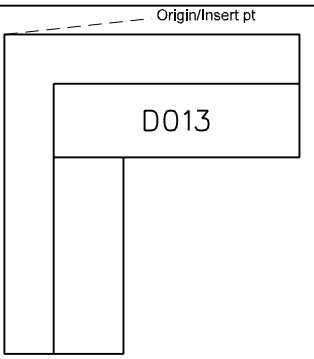
		
Interiors: SDSEC SECRTRL CHR NO ARMS 23WX22D Element type: Object	Interiors: SDTASK TASK CHAIR Element type: Object	Interiors: SGANG GANG SEATING W TABLE Element type: Object
		
Interiors: SSOF37 SOFA CHAIR 37W X 34D Element type: Object	Interiors: SSOF63 2 CUSHION SOFA 63W X 34D Element type: Object	Interiors: SSOF82 3 CUSHION SOFA 82.5W X 34D Element type: Object
		
Interiors: STAB24 CHAIR TABLET ARM 24W X 24D Element type: Object	Interiors: T42SQ TABLE 42SQ W ARMLESS CHR Element type: Object	Interiors: TMS30 MAILSORT TBLE 16OH SLOTS30W Element type: Object



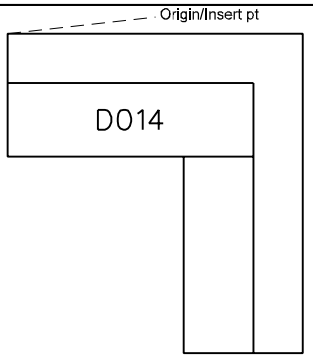
Interiors: TPOOL
POOL TABLE
Element type: Object



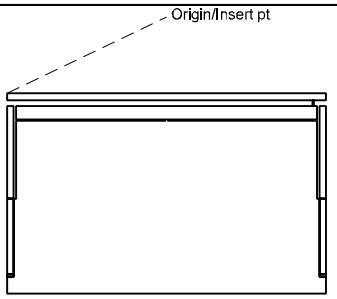
Interiors: TROUND
ROUND TABLE
Element type: Object



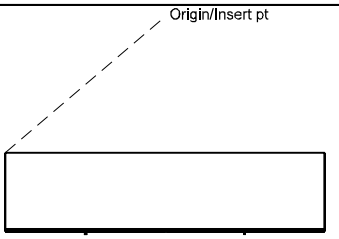
Interiors: W7230L
WORKSTATION L UNIT LR
Element type: Object



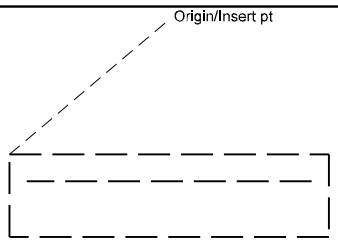
Interiors: W7230R
WORKSTATION L UNIT RR
Element type: Object



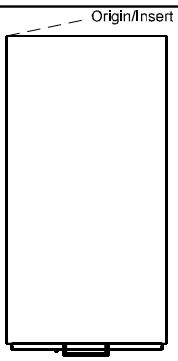
Interiors: WCPDSK
DESK COMPUTER
Element type: Object



Interiors: WFLIPR
FLIPPER DOOR UNIT
Element type: Object

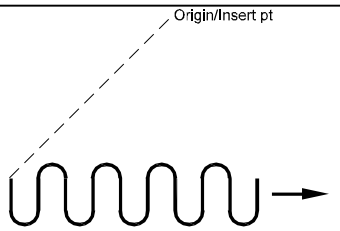


Interiors: WLIGHT
WORKSTATION LIGHT
Element type: Object

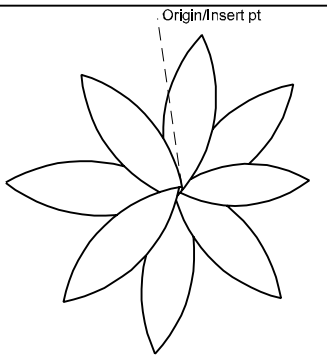


Interiors: WPED
WORKSTATION PEDESTAL
Element type: Object

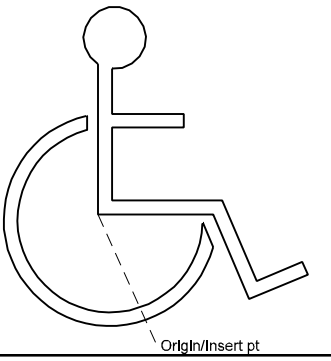
9 Interiors Symbols Library



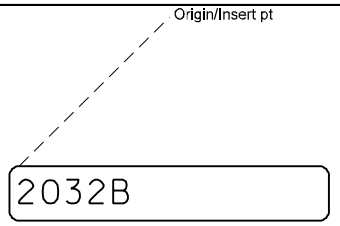
Interiors: ACURTN
CURTAIN
Element type: Symbol



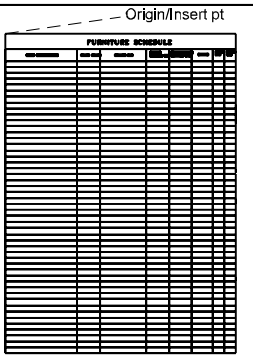
Interiors: APLANT
ARTIFICIAL PLANT
Element type: Symbol



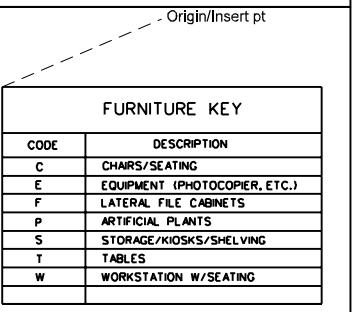
Interiors: GHNDCP
UNIVERSAL HANDICAP SYMBOL
Element type: Symbol



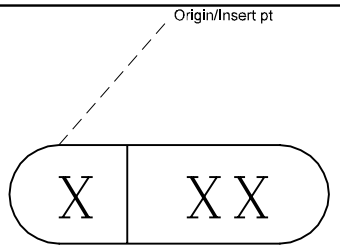
Interiors: GIID
IDENTIFICATION SIGN
Element type: Symbol



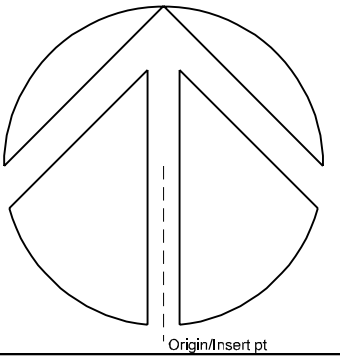
Interiors: MFMATL
FURNITURE MATERIAL LIST
Element type: Symbol



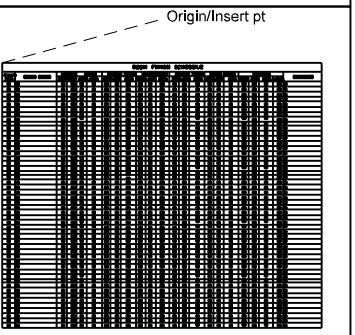
Interiors: MFSCHD
FURNITURE SCHEDULE
Element type: Symbol



Interiors: MFSYMB
FURNITURE SYMBOL
Element type: Symbol



Interiors: MNORTH
NORTH ARROW
Element type: Symbol



Interiors: MRSCHD
ROOM FINISH SCHEDULE
Element type: Symbol

Origin/Insert pt

LEGEND	
TYPE	DESCRIPTION
A	DIRECTIONALS
B1	IDENTIFICATION
B2	ROOM OCCUPANT SIGN
B3	IDENTIFICATION - SERVICE
C	SERVICE PICTOGRAMS
D	EXTERIOR - ENTRANCE
E	EXTERIOR - EXIT

NUMBER
SIGN TYPE

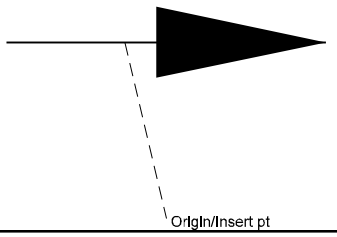
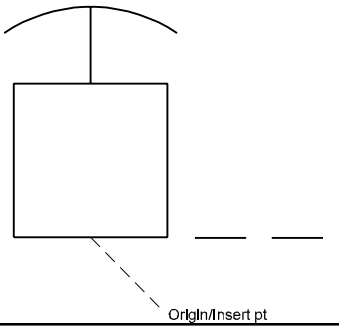
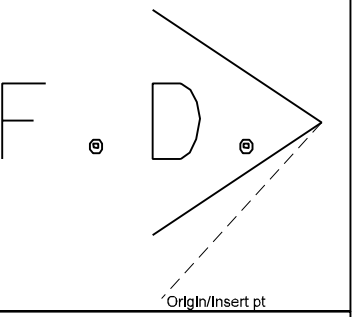
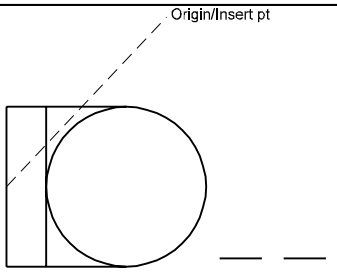
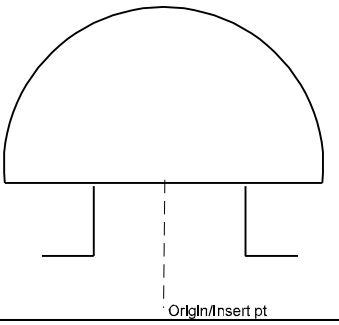
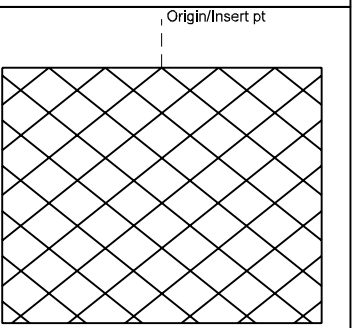
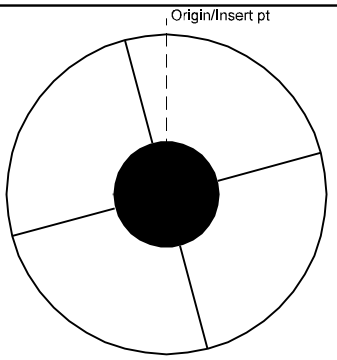
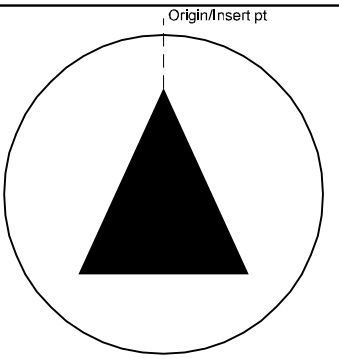
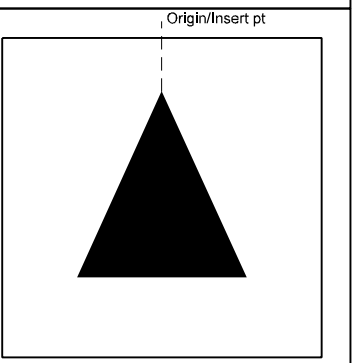
SEE SPECIFICATION 10430 AND 10440

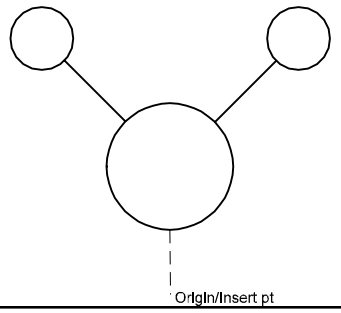
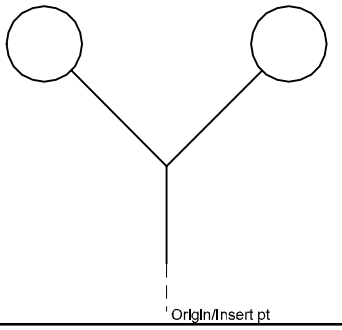
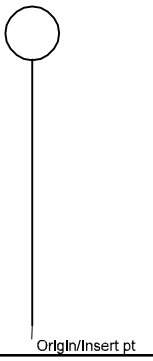
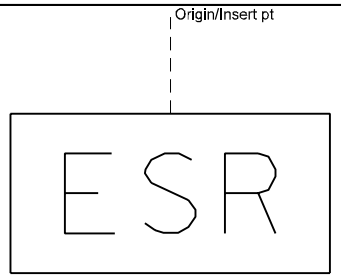
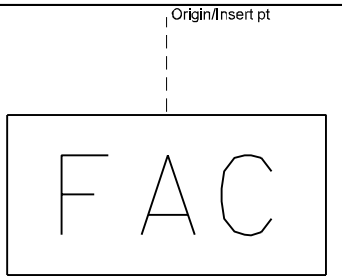
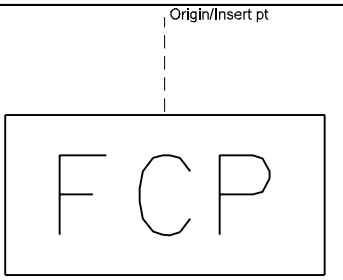
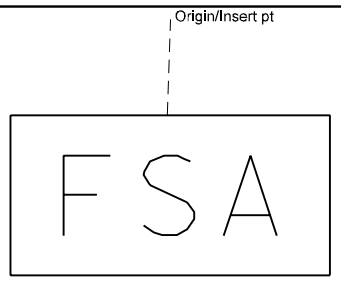
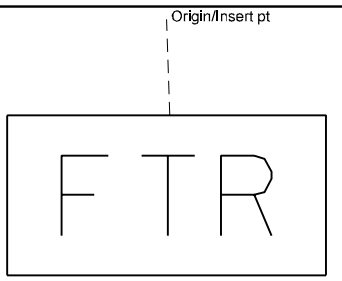
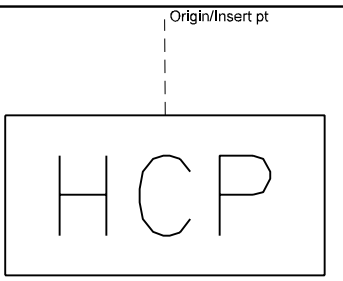
Interiors: MSSCHD
SIGNAGE SCHEDULE
Element type: Symbol

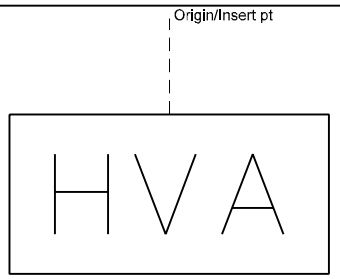
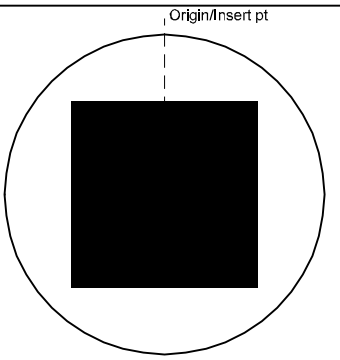
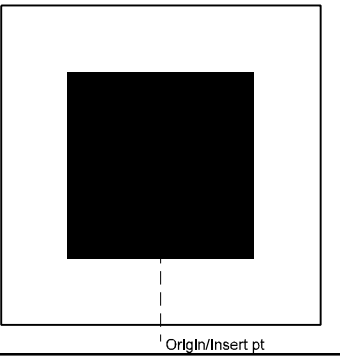
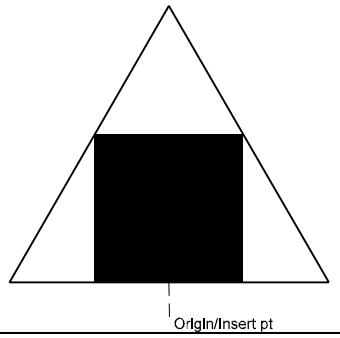
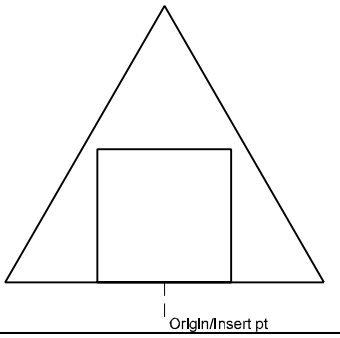
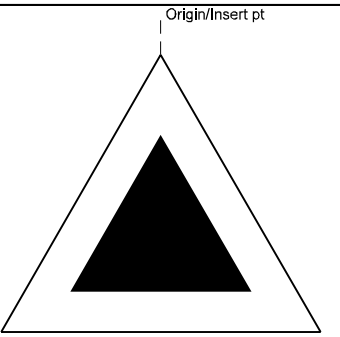
10 Fire Protection Lines Library

F		S
Fire Protection: FIRE FIRE PROTECTION WATR SUPPLY Element type: Line	Fire Protection: MANSUC SUCTION MAIN Element type: Line	Fire Protection: SPRINK MAIN SUPPLY SPRINKLER Element type: Line
C S P	D S P	W S P
Fire Protection: STDCOM COMBINATION STANDPIPE Element type: Line	Fire Protection: STDDRY DRY STANDPIPE Element type: Line	Fire Protection: STDWET WET STANDPIPE Element type: Line

10 Fire Protection Symbols Library

		
Fire Protection:1DIR DIRECTION ARROW Element type: Symbol	Fire Protection:ABORT ABORT SWITCH Element type: Symbol	Fire Protection:ACCESS FIRE DEPARTMENT ACCESS Element type: Symbol
		
Fire Protection:AGSTCN AGENT STORAGE CONTAINER Element type: Symbol	Fire Protection:BELLFA FIRE ALARM BELL Element type: Symbol	Fire Protection:BOILER BOILER Element type: Symbol
		
Fire Protection:CHIMNY CHIMNEY Element type: Symbol	Fire Protection:CO2AA C02 AUTO ACTUATED EXNGSHR Element type: Symbol	Fire Protection:CO2MA C02 MAN ACTUATED EXTNGSHR Element type: Symbol

		
Fire Protection:CONSFS FREESTNDNG SIAMESE F.D. CON Element type: Symbol	Fire Protection:CONSIA SIAMESE FIRE DPT CONNECTION Element type: Symbol	Fire Protection:CONSNG SINGLE FIRE DPT. CONNECTION Element type: Symbol
		
Fire Protection:CPESR ELEVATOR STATUS RECALL Element type: Symbol	Fire Protection:CPFAC FIRE AL COMMUNICATOR Element type: Symbol	Fire Protection:CPFCP F A CONTROL PANEL Element type: Symbol
		
Fire Protection:CPFSA F A FIRE SYS ANNUNCIATOR Element type: Symbol	Fire Protection:CPFTR F A TRANSMITTER Element type: Symbol	Fire Protection:CPHCP HALON CONTROL PANEL Element type: Symbol

		
Fire Protection:CPHVA CONTROL PANEL HVAC Element type: Symbol	Fire Protection:DCATAA ALLTYPE FIREEXTNGSHRAUTOACT Element type: Symbol	Fire Protection:DCATMA ALLTYPE FIREEXTNGSHR MANACT Element type: Symbol
		
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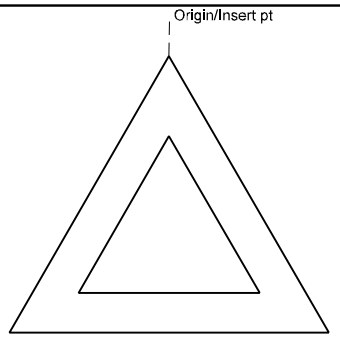	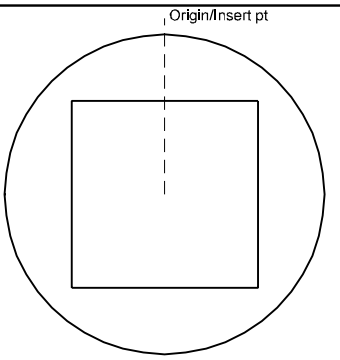	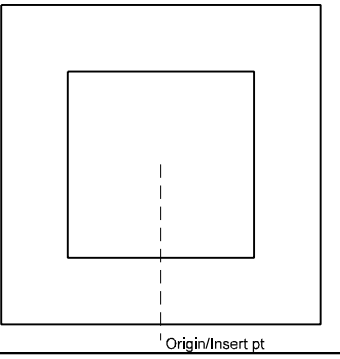
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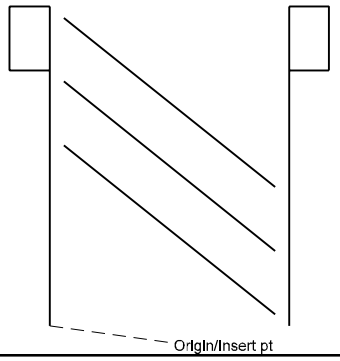	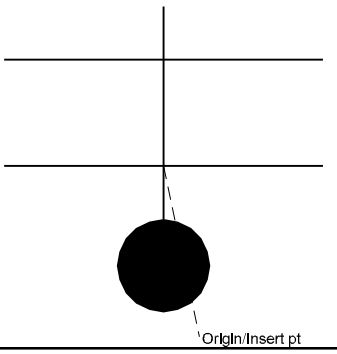	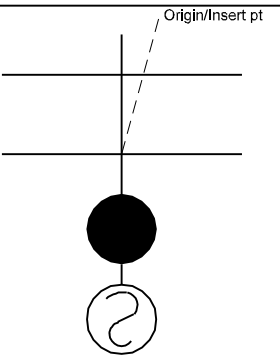
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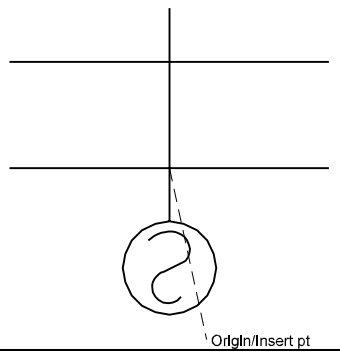
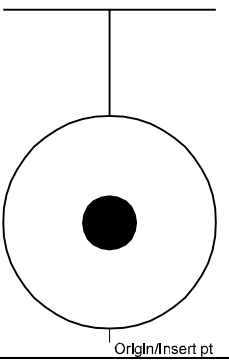
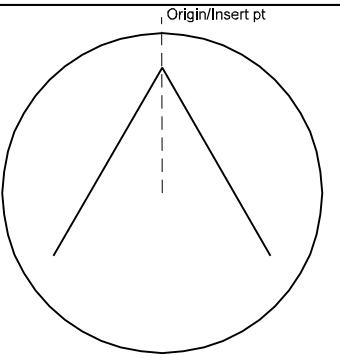
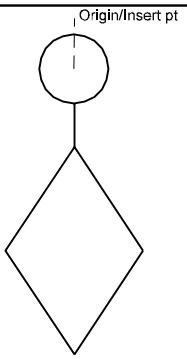
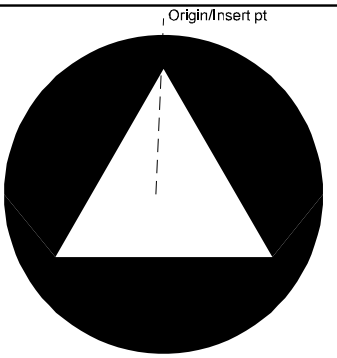
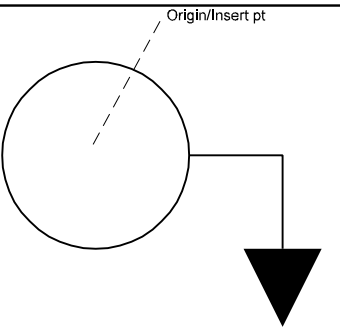
		
Fire Protection:DMPSMK SMOKE DAMPER Element type: Symbol	Fire Protection:DRHOLD DOOR HOLDER Element type: Symbol	Fire Protection:DTFLAM FLAME DETECTOR Element type: Symbol
		
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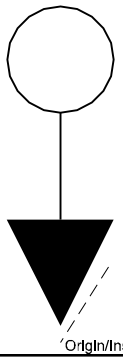	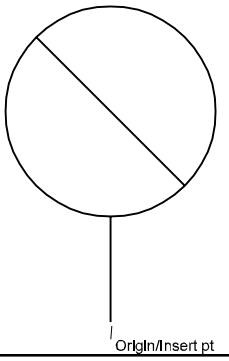	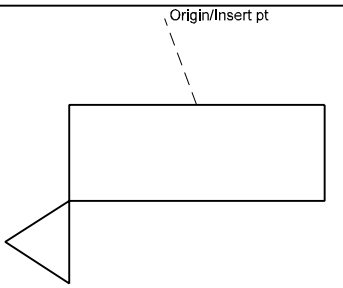
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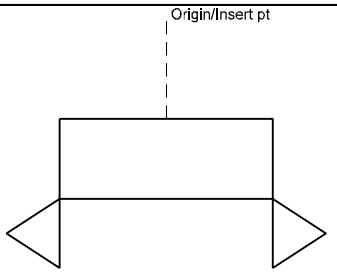
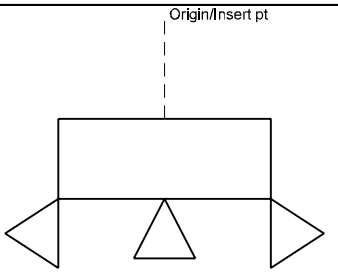
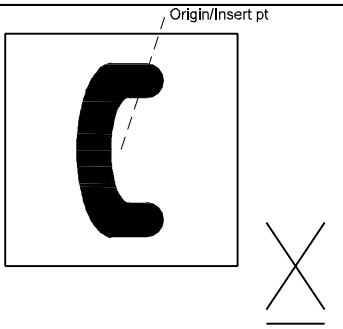
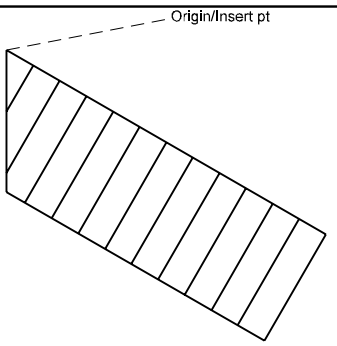
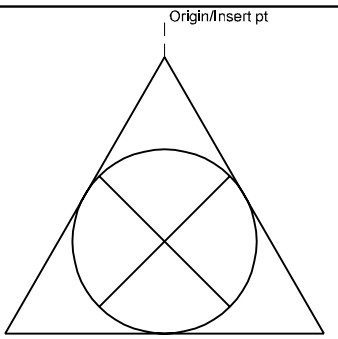
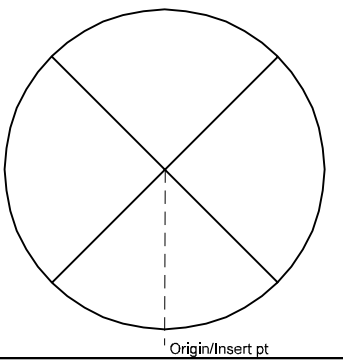
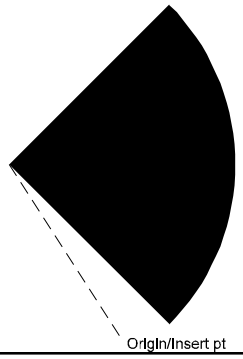
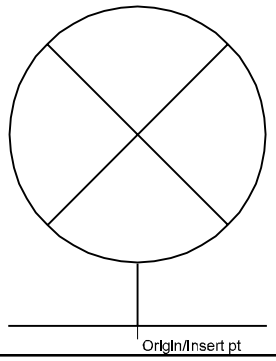
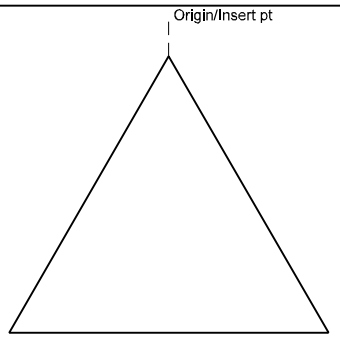
		
Fire Protection:ELBP2L 2LAMP EMRGNCY LGHTBTTRYPWR Element type: Symbol	Fire Protection:ELBP3L 3LAMP EMRGNCY LGHTBTTRYPWR Element type: Symbol	Fire Protection:EPSTA EMERGENCY PHONE STATION Element type: Symbol
		
Fire Protection:ESCAPE FIRE ESCAPE Element type: Symbol	Fire Protection:EXFOAM FOAM EXTINGUISHER Element type: Symbol	Fire Protection:EXITCM CEILING MNTD EXITSIGN LIGHT Element type: Symbol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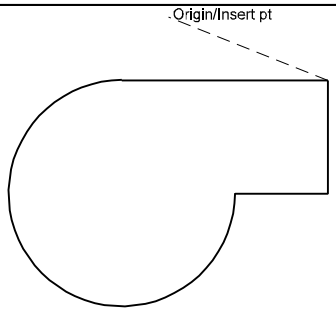
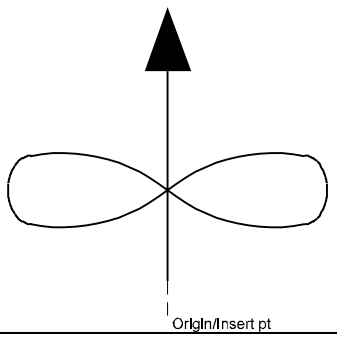
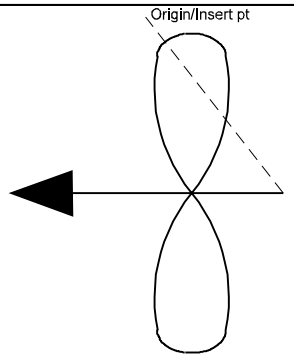
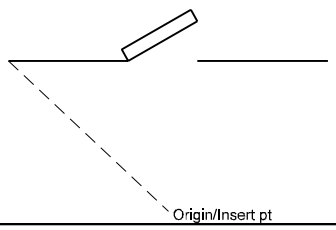
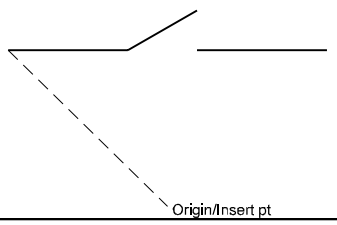
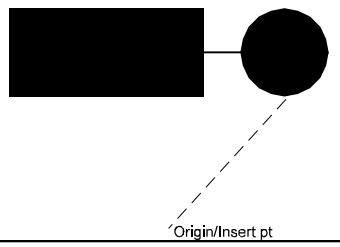
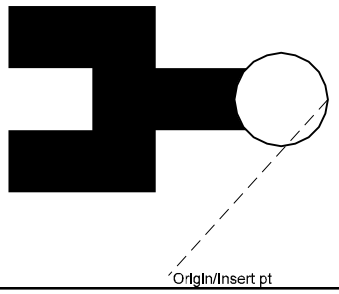
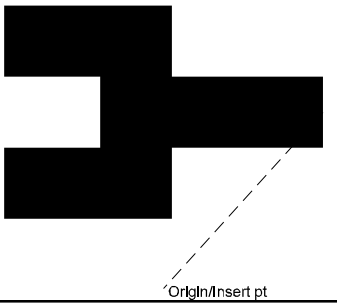
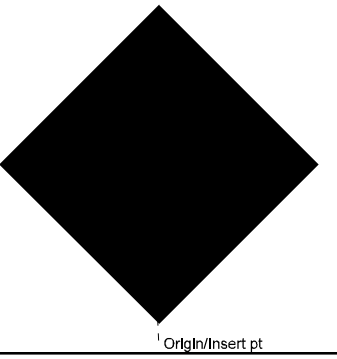
		
Fire Protection:FANDCT DUCT FAN Element type: Symbol	Fire Protection:FANGEN GENERAL FAN Element type: Symbol	Fire Protection:FANWAL WALL FAN Element type: Symbol
		
Fire Protection:FDOR3 3HR RATED FIRE DOOR IN WALL Element type: Symbol	Fire Protection:FDORL3 WALL W 3 HOUR RATED DOOR Element type: Symbol	Fire Protection:FPDRIV FIRE PUMP WITH DRIVES Element type: Symbol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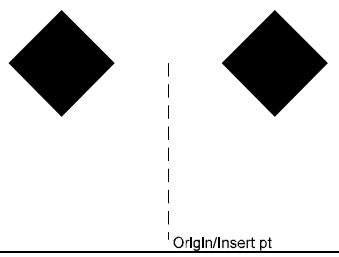	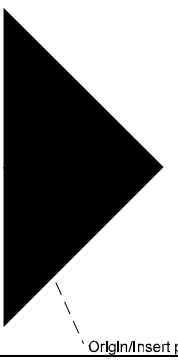	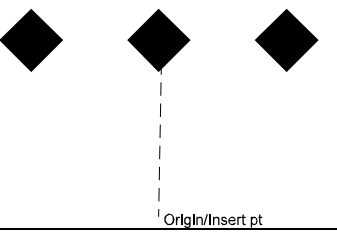
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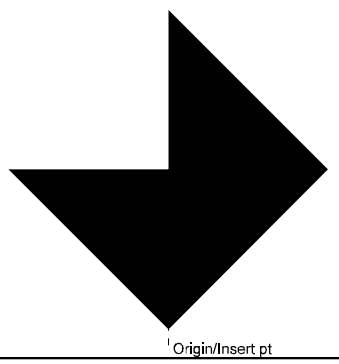	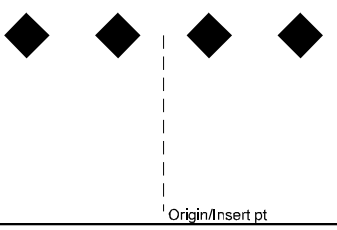	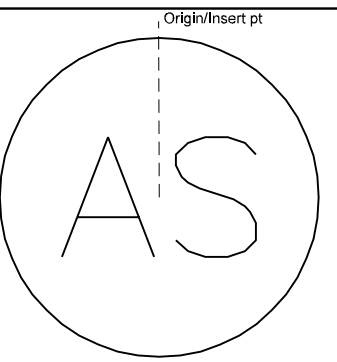
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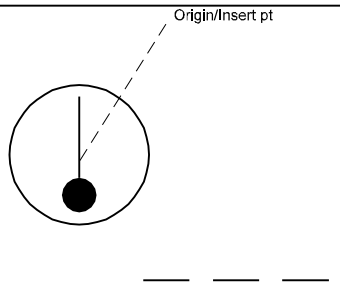	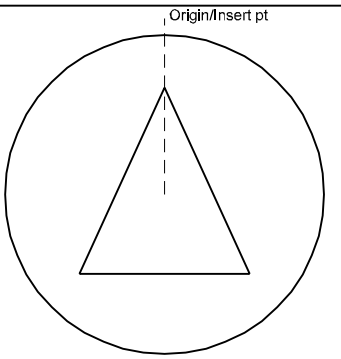	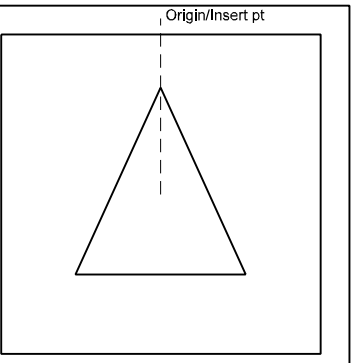
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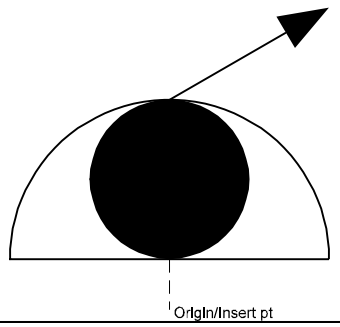
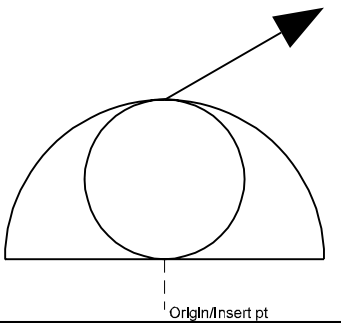
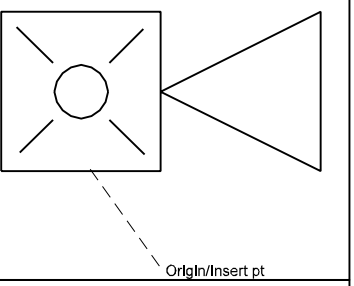
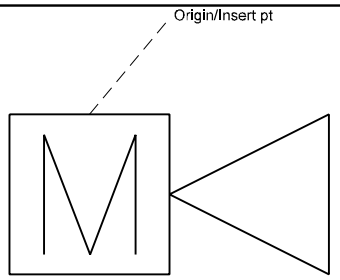
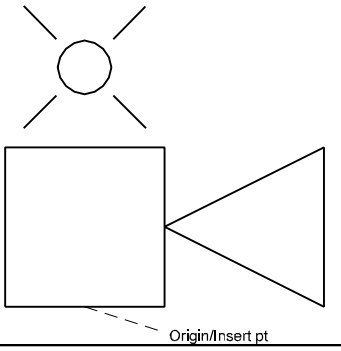
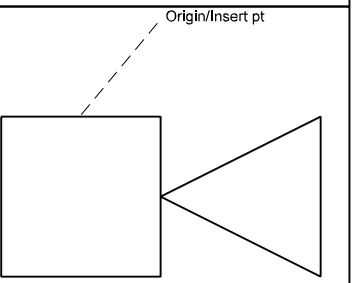
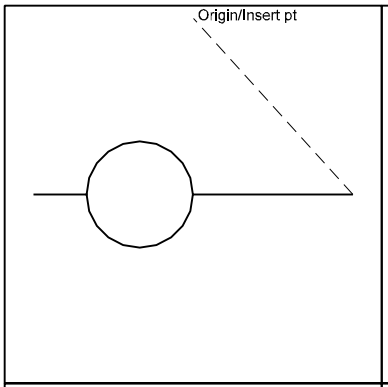
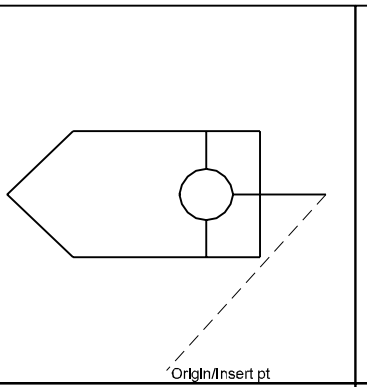
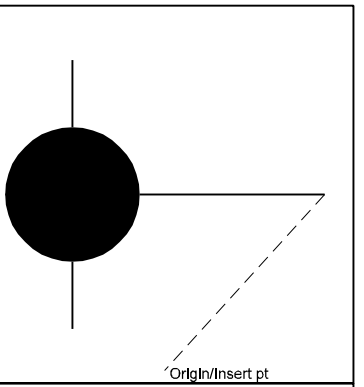
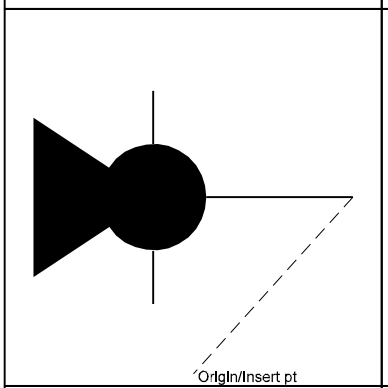
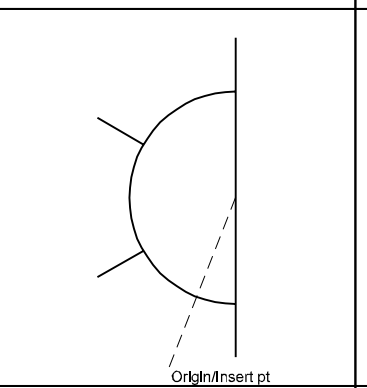
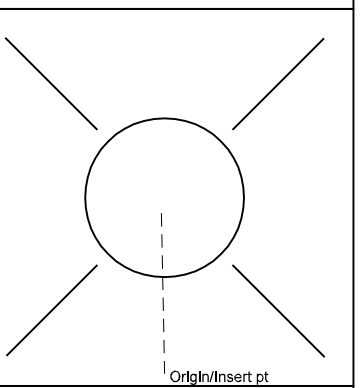
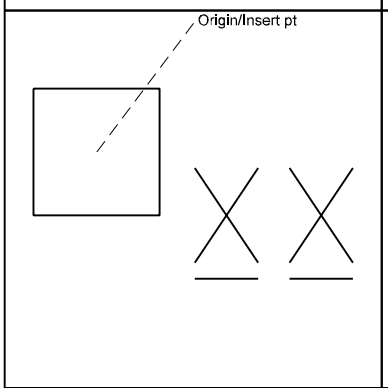
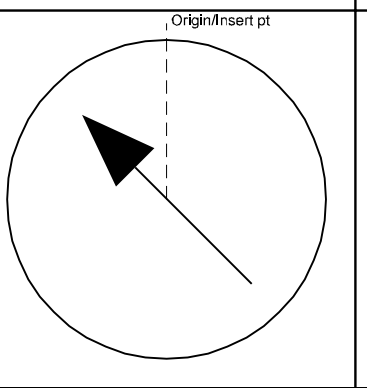
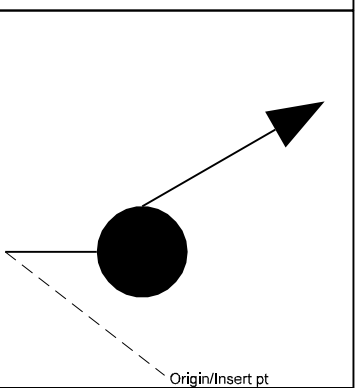
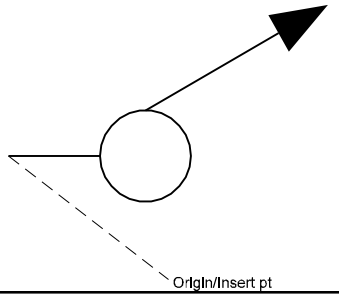
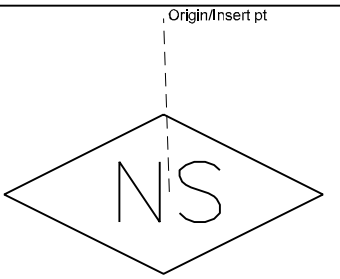
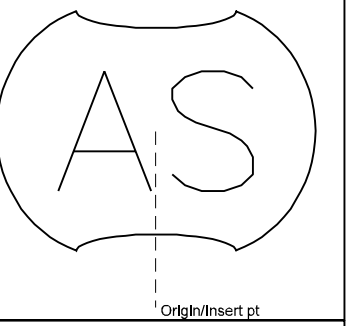
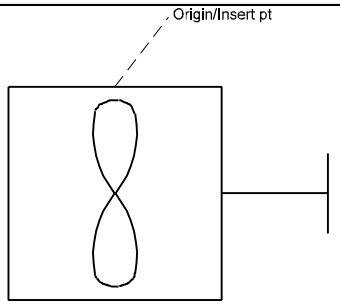
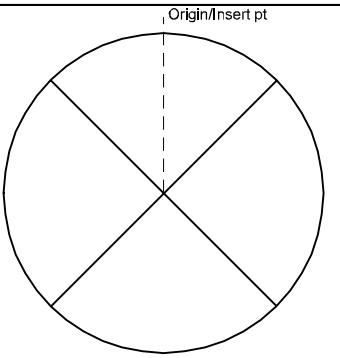
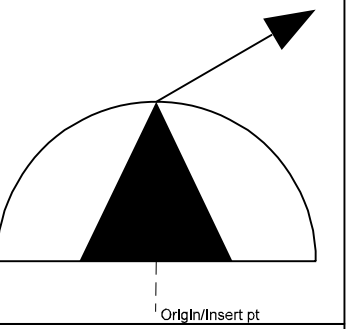
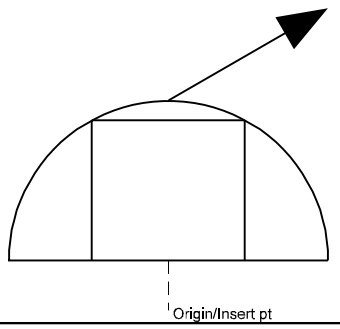
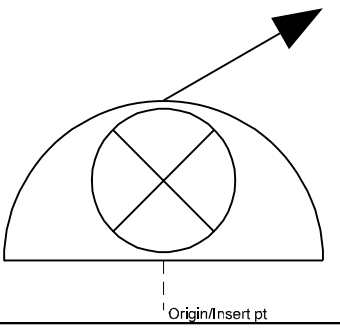
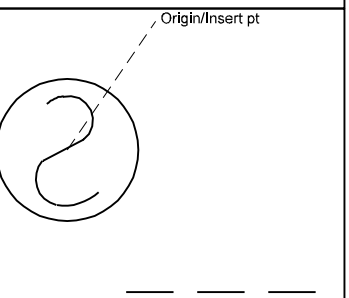
		
Fire Protection:HOSECS HOSE STATION CHRGD STNDPIPE Element type: Symbol	Fire Protection:HOSEDS HOSE STATION DRY STANDPIPE Element type: Symbol	Fire Protection:HRN1A HORN LIGHT 1 ASSY Element type: Symbol
		
Fire Protection:HRNMIN MINI HORN Element type: Symbol	Fire Protection:HRNSA SEPARATE ASSEMBLY HORN LGHT Element type: Symbol	Fire Protection:HRNSPK HORN SPEAKER Element type: Symbol

		
Fire Protection:HYDPR1 PRIV HYDRANT 1 HOSE OUTLET Element type: Symbol	Fire Protection:HYDPR2 PRIVATE HOUSED HYDRANT Element type: Symbol	Fire Protection:HYDPU2 PUBLIC TWO HOSE OUTLET HYD Element type: Symbol
		
Fire Protection:HYDPUP PUBHYDRNT2HOSOUTLTPMPCONN Element type: Symbol	Fire Protection:HYDW2H WALL HYDRANT 2 HOSE OUTLET Element type: Symbol	Fire Protection:LITFAS FA STROBE LIGHT Element type: Symbol
		
Fire Protection:MANSTA MANUAL STATION Element type: Symbol	Fire Protection:METRFP FP METER Element type: Symbol	Fire Protection:MNCHRG MONITOR NOZZLE CHARGED Element type: Symbol

		
Fire Protection:MNDRY MONITOR NOZZLE DRY Element type: Symbol	Fire Protection:NONSS NONSPRINKLERED SPACE Element type: Symbol	Fire Protection:PARTSS PARTIALLY SPRINKLERED SPACE Element type: Symbol
		
Fire Protection:PURGE MANUAL PURGE CONTROL Element type: Symbol	Fire Protection:RISER RISER Element type: Symbol	Fire Protection:RSCO2 C02 REEL STATION Element type: Symbol
		
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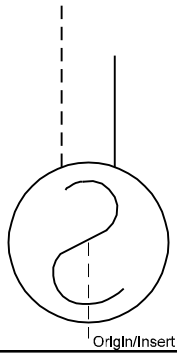
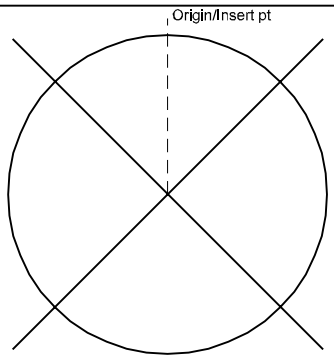
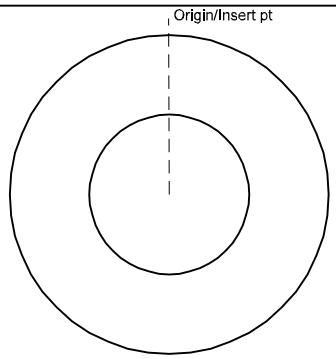
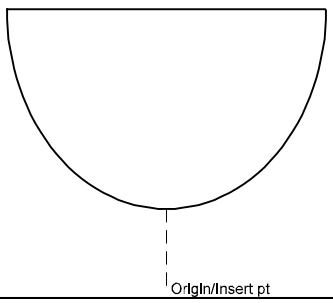
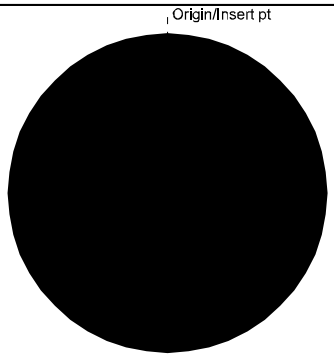
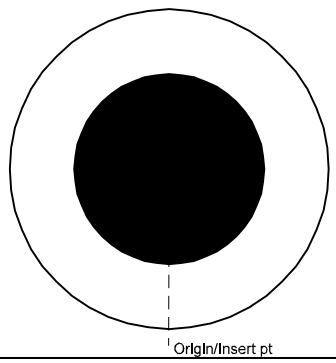
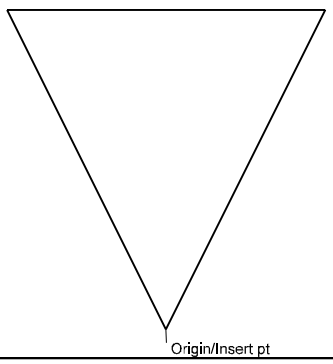
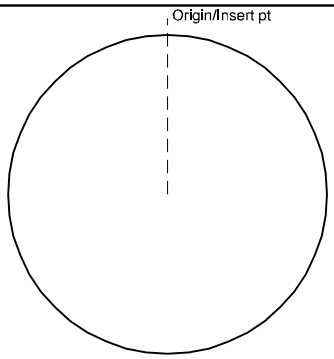
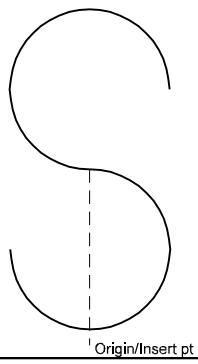
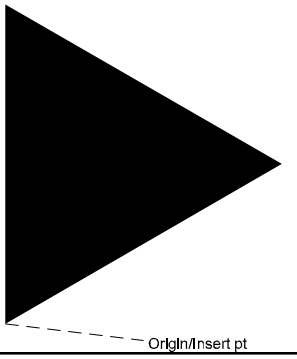
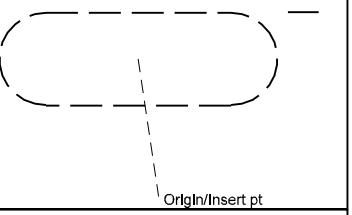
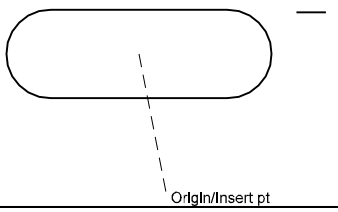
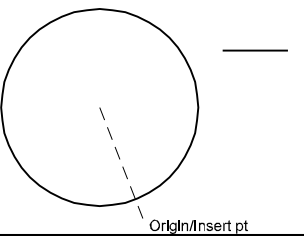
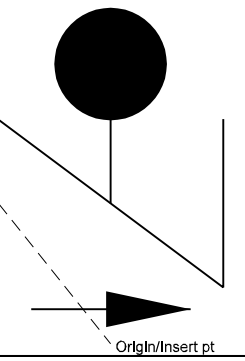
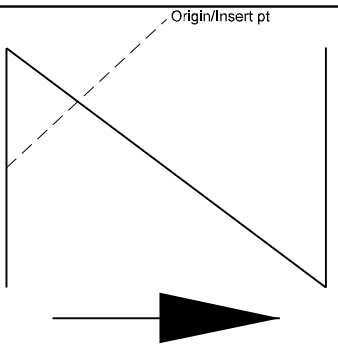
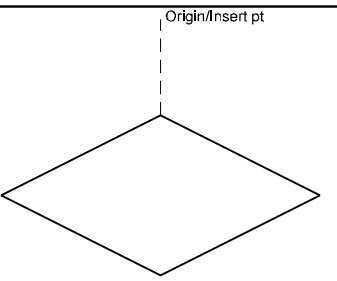
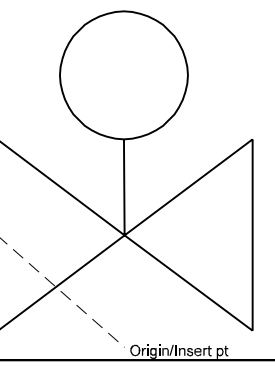
		
Fire Protection:SDUCT SMOKE DETECTOR FOR DUCT Element type: Symbol	Fire Protection:SHGARD SPRINKLER HEAD W GUARD Element type: Symbol	Fire Protection:SHNUU NIPPLED UP UPRIGHT SPRNKLR Element type: Symbol
		
Fire Protection:SHOUT OUTSIDE SPRINKLER HEAD Element type: Symbol	Fire Protection:SHPEND PENDENT SPRINKLER HEAD Element type: Symbol	Fire Protection:SHPNDN PENDENTSPRNKLR DROP NIPPL Element type: Symbol
		
Fire Protection:SHSIDE SIDEWALL SPRINKLER HEAD Element type: Symbol	Fire Protection:SHUPRT UPRIGHT SPRINKLER HEAD Element type: Symbol	Fire Protection:SMKBR SMOKE BARRIER Element type: Symbol

		
Fire Protection:SSNOZZ SPECIAL SPRAY NOZZLE Element type: Symbol	Fire Protection:THRUST THRUST BLOCK Element type: Symbol	Fire Protection:TNKBG TANK BELOW GROUND Element type: Symbol
		
Fire Protection:TNKHAG TANK HORIZ ABOVE GROUND Element type: Symbol	Fire Protection:TNKVAG TANK VERTICAL ABOVE GROUND Element type: Symbol	Fire Protection:VLVCHA ALARM CHECK VALVE Element type: Symbol
		
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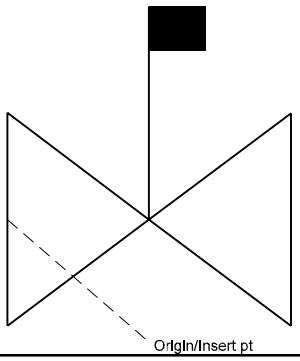	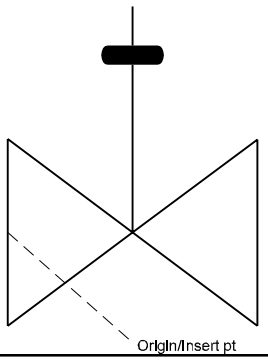	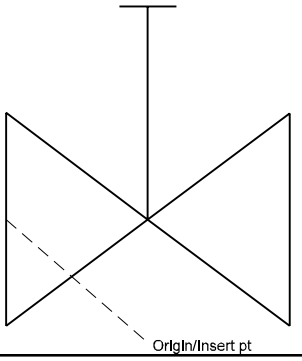
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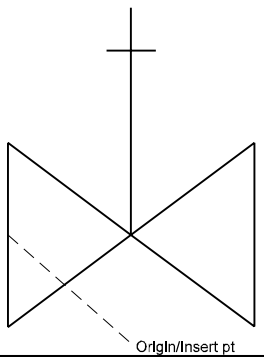	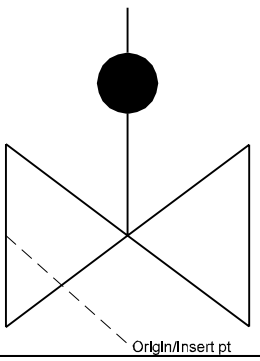	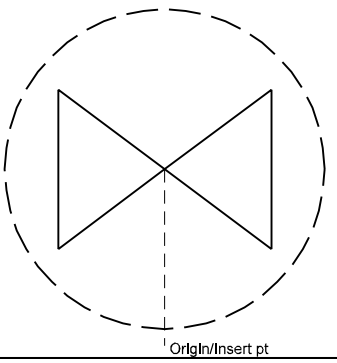
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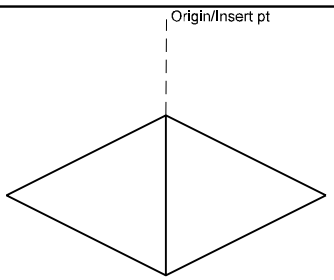
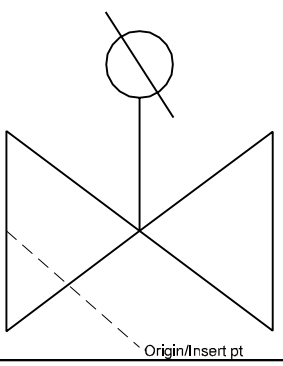
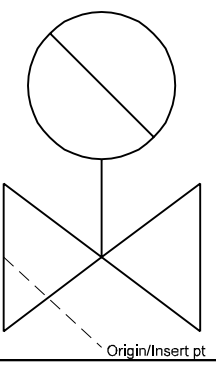
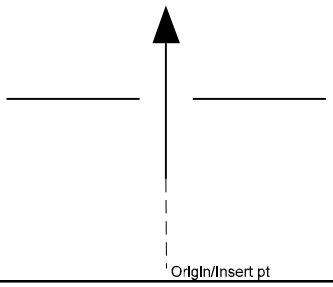
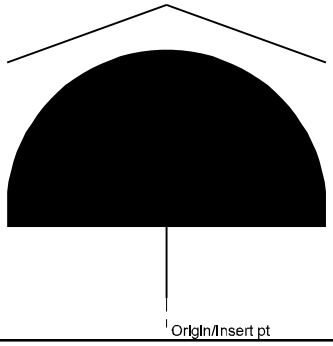
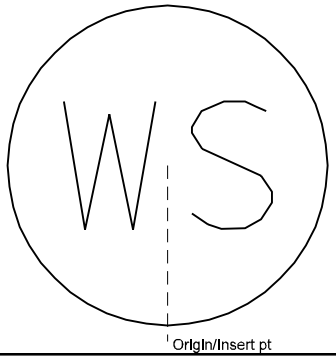
		
Fire Protection:VLVPRE PREACTION VALVE Element type: Symbol	Fire Protection:VLVQOD VALVE W QUICK OPENNG DEVICE Element type: Symbol	Fire Protection:VLVTDS VALVE TAMPERDETECTION SWITC Element type: Symbol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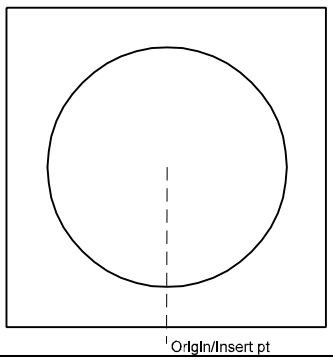
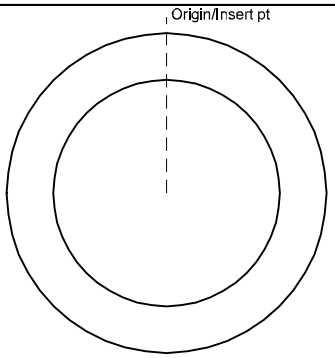
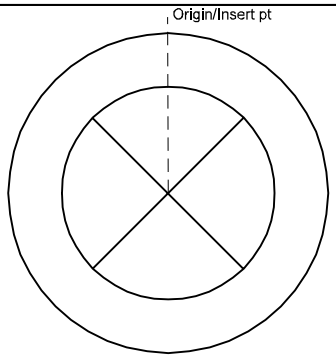
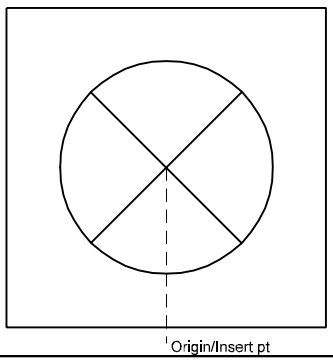
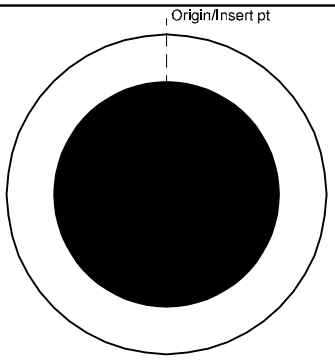
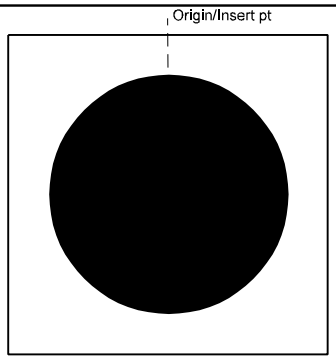
		
Fire Protection:WBDSMA WATER BASED DRY SYS MAN ACT Element type: Symbol	Fire Protection:WBDSSA WATERBASED DRY SYS AUTO ACT Element type: Symbol	Fire Protection:WBFSAA WATR BASED FOAM SYS AUTOACT Element type: Symbol
		
Fire Protection:WBFSMA WATR BASED FOAM SYS MANACT Element type: Symbol	Fire Protection:WBWSAA WATERBASED WET SYS AUTO ACT Element type: Symbol	Fire Protection:WBWSMA WATER BASED WET SYS MAN ACT Element type: Symbol

11 Plumbing Lines Library

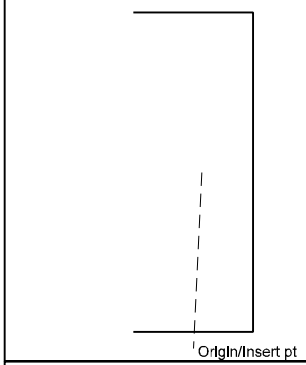
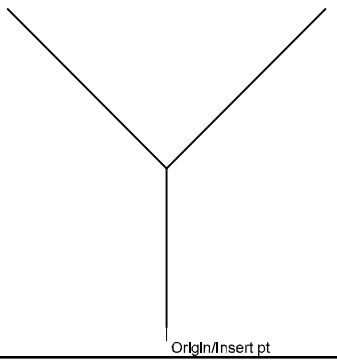
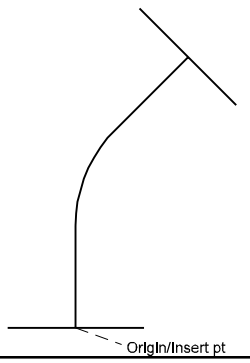
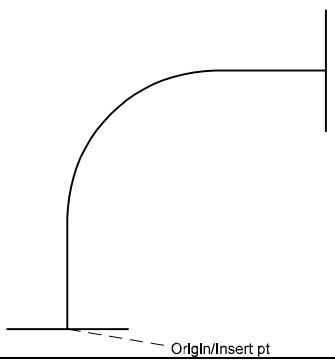
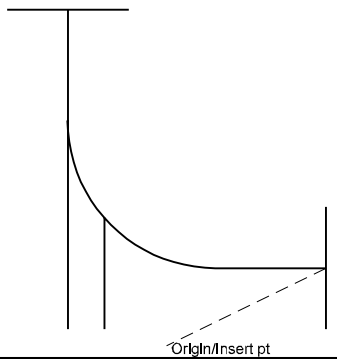
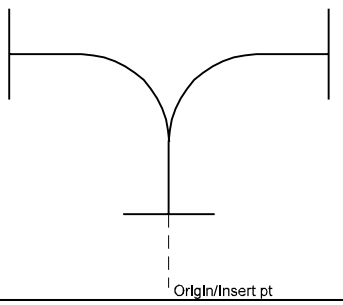
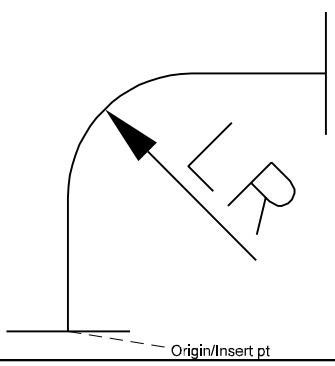
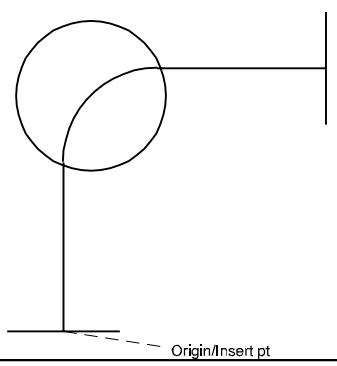
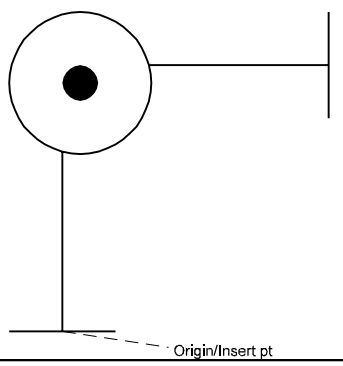
C D		A
Plumbing:CDRNAF CONDENSATE DRAIN Element type: Line	Plumbing:CLDWTR POTABLE COLD WATER Element type: Line	Plumbing:CMPAIR COMPRESSED AIR Element type: Line
D E	D I	F
Plumbing:DIOWTR DEIONIZED WATER Element type: Line	Plumbing:DSTWTR DISTILLED WATER Element type: Line	Plumbing:FIRE FIRE PROTECTION WATR SUPPLY Element type: Line
F O R	F O S	F O V
Plumbing:FUELOR FUEL OIL RETURN Element type: Line	Plumbing:FUELOS FUEL OIL SUPPLY Element type: Line	Plumbing:FUELOV FUEL OIL TANK VENT Element type: Line

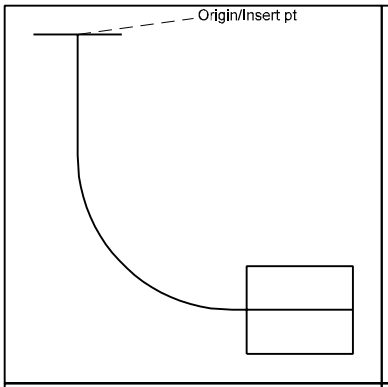
HE		
Plumbing:HELIUM HELIUM Element type: Line	Plumbing:HWTR POTABLE HOT WATER Element type: Line	Plumbing:HWTRR POTABLE HOT WATER RETURN Element type: Line
H	ICW	IHR
Plumbing:HYDRGN HYDROGEN Element type: Line	Plumbing:ICWTR INDUSTRIAL COLD WATER Element type: Line	Plumbing:IHWTRR INDUSTRIAL HOT WATER RETURN Element type: Line
IHW	ID	LN
Plumbing:IHWTRS INDUSTRIAL HOT WATER SUPPLY Element type: Line	Plumbing:INDDRN INDIRECT DRAIN Element type: Line	Plumbing:LIQNIT LIQUID NITROGEN Element type: Line

LOX	LPG	NO
Plumbing:LIQOXY LIQUID OXYGEN Element type: Line	Plumbing:LIQPET LIQUID PETROLEUM GAS Element type: Line	Plumbing:NITOXI NITROUS OXIDE Element type: Line
N	NPW	G
Plumbing:NITROG NITROGEN Element type: Line	Plumbing:NONPOT NONPOTABLE WATER Element type: Line	Plumbing:NTGASN NATURAL GAS Element type: Line
OX	PN	RD
Plumbing:OXYGEN OXYGEN Element type: Line	Plumbing:PNTUBE PNEUMATIC TUBE RUNS Element type: Line	Plumbing:ROOFDN ROOF DRAIN Element type: Line

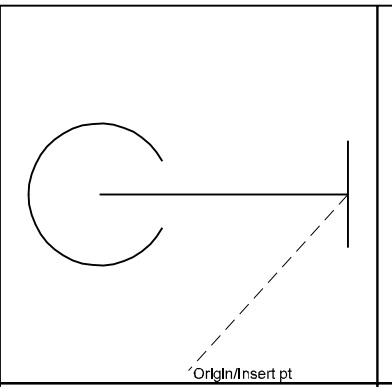
S W		
Plumbing:SFCWTR SOFT WATER Element type: Line	Plumbing:SHWTRR SANITIZING HOT WATER RETURN Element type: Line	Plumbing:SHWTRS SANITIZING HOT WATER SUPPLY Element type: Line
S S	S D	V A C
Plumbing:SSWAF SANITARY SEWER Element type: Line	Plumbing:STRAF STORM DRAIN Element type: Line	Plumbing:VACAIR VACUUM AIR Element type: Line
	S V	
Plumbing:VENT VENT Element type: Line	Plumbing:VENTWS VENT AND WASTE COMBINATION Element type: Line	

11 Plumbing Symbols Library

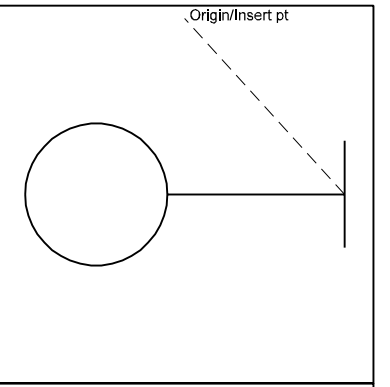
		
Plumbing:CAPSC CAP Element type: Symbol	Plumbing:DRNFUN OPEN DRAIN FUNNEL Element type: Symbol	Plumbing:EL45SC 45 DEGREE ELBOW Element type: Symbol
		
Plumbing:EL90SC 90 DEGREE ELBOW Element type: Symbol	Plumbing:ELBSC BASE ELBOW Element type: Symbol	Plumbing:ELDBSC DOUBLE BRANCH ELBOW Element type: Symbol
		
Plumbing:ELLRSC LONG RADIUS ELBOW Element type: Symbol	Plumbing:ELODSC ELBOW SIDE OUTLET DOWN Element type: Symbol	Plumbing:ELOUSC ELBOW SIDE OUTLET UP Element type: Symbol



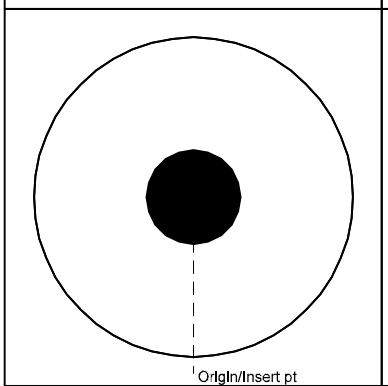
Plumbing:ELSTRT
STREET ELBOW
Element type: Symbol



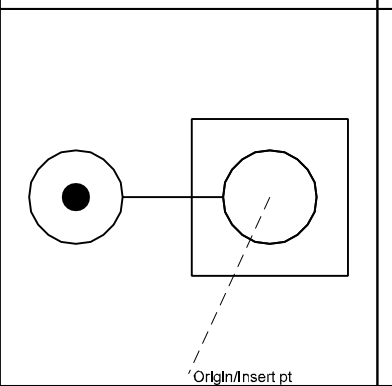
Plumbing:ELTDSC
TURNED DOWN ELBOW
Element type: Symbol



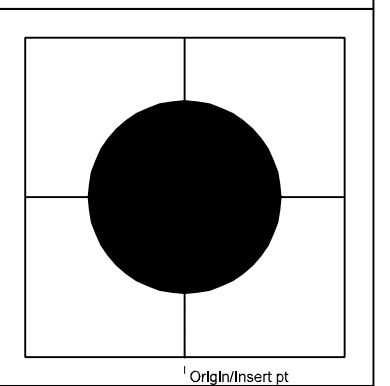
Plumbing:ELTUSC
TURNED UP ELBOW
Element type: Symbol



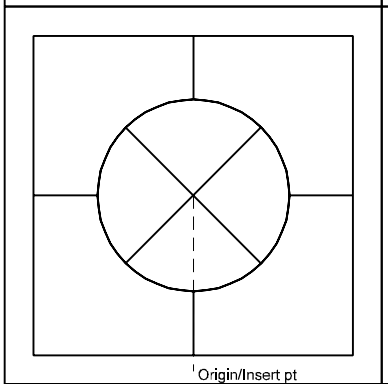
Plumbing:FCO
FLOOR CLEANOUT
Element type: Symbol



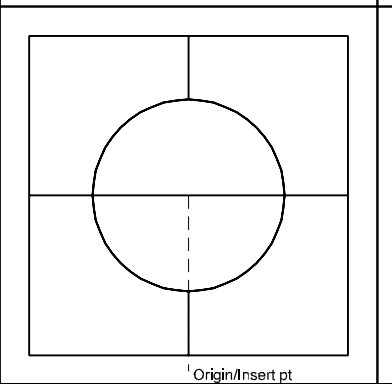
Plumbing:FDCO
FLOOR DRAIN WITH CLEANOUT
Element type: Symbol



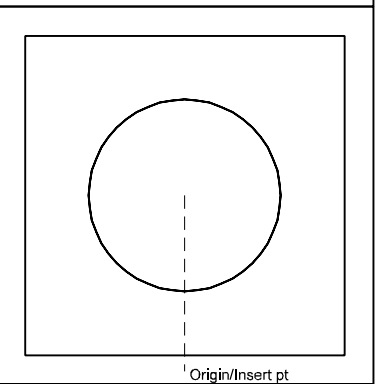
Plumbing:FDDT
FLOOR DRAIN WITH DEEP TRAP
Element type: Symbol



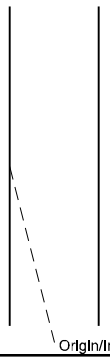
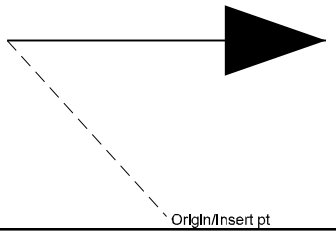
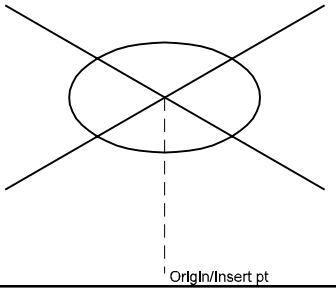
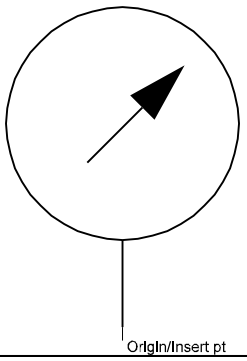
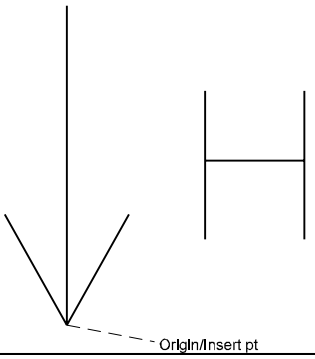
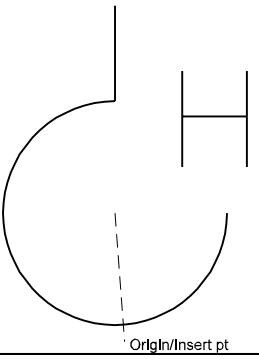
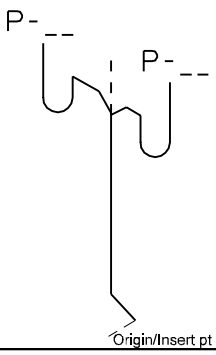
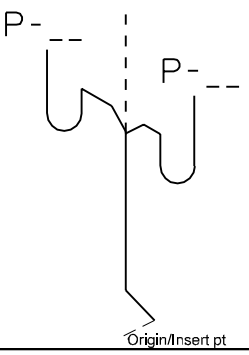
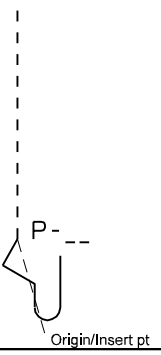
Plumbing:FDNT
FLOOR DRAIN WITH NO TRAP
Element type: Symbol

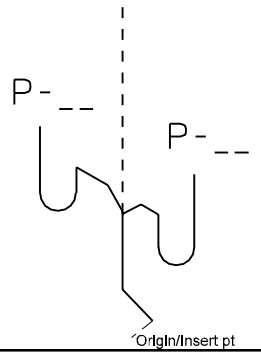
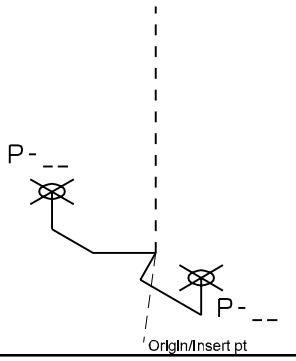
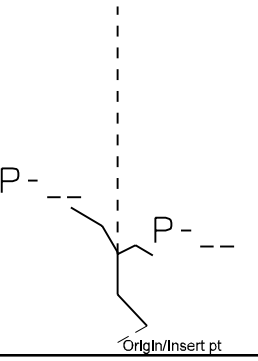
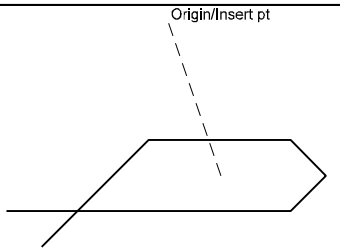
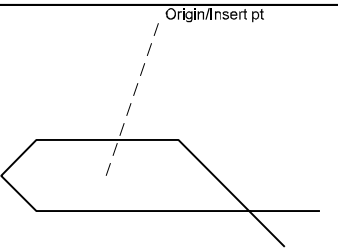
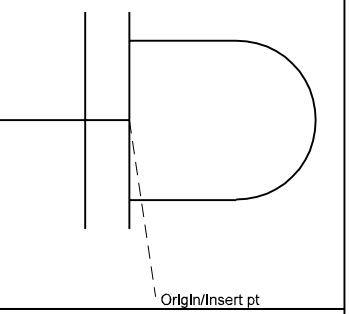
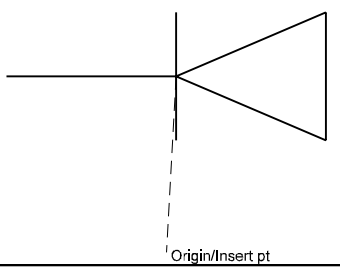
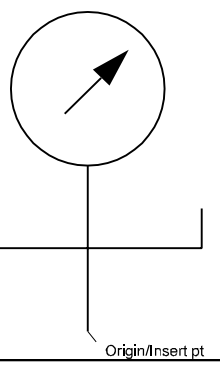
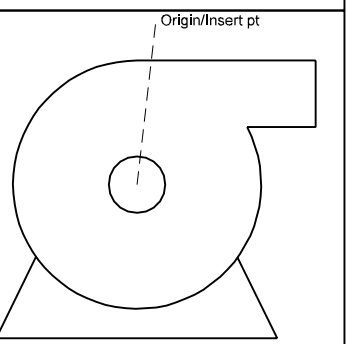


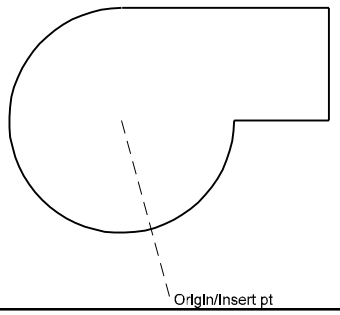
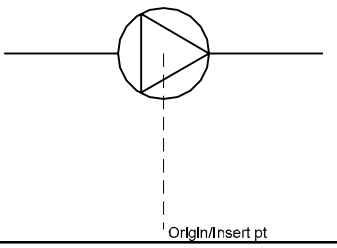
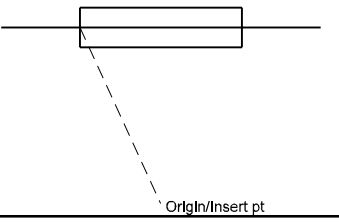
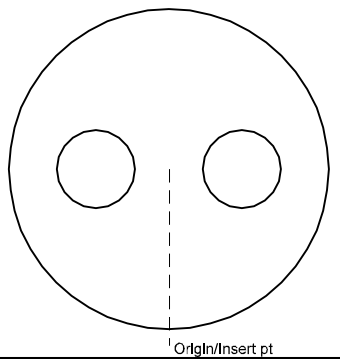
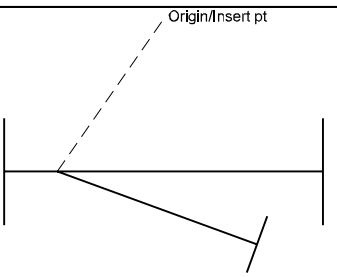
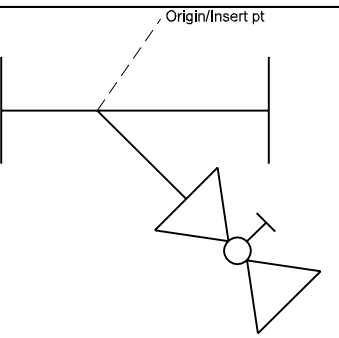
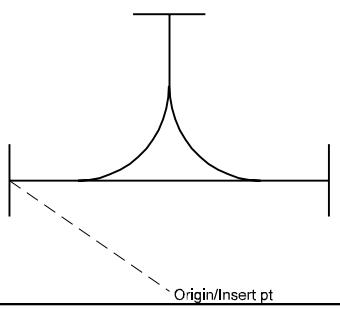
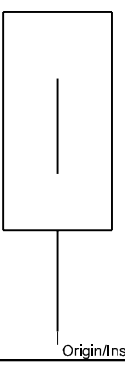
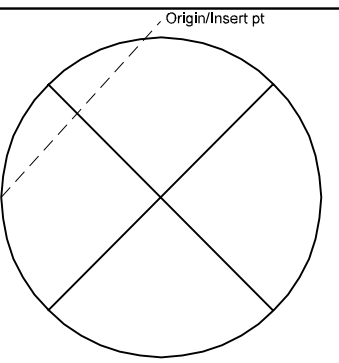
Plumbing:FDTP
FLOOR DRAIN WITH TRAP PRIME
Element type: Symbol

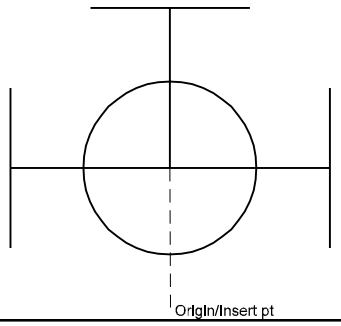
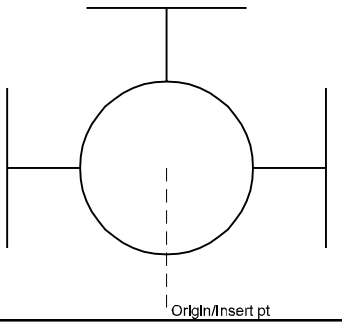
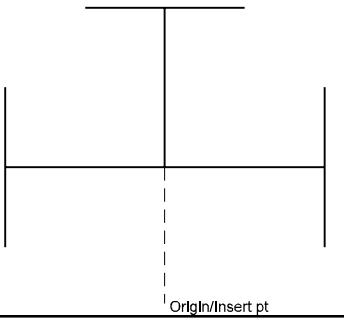
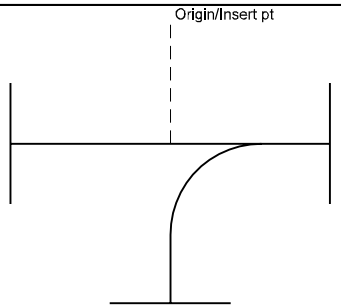
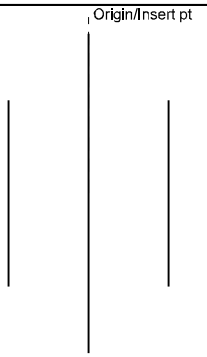
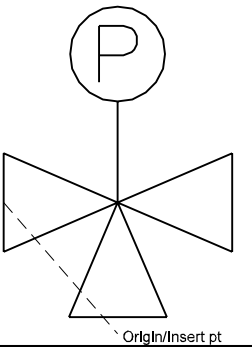
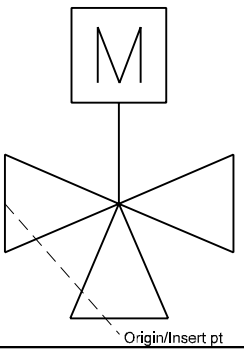
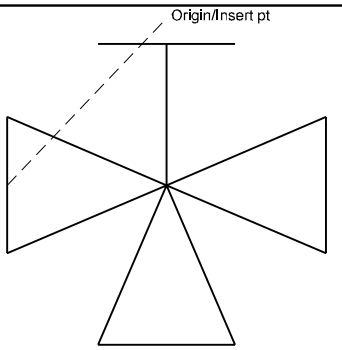
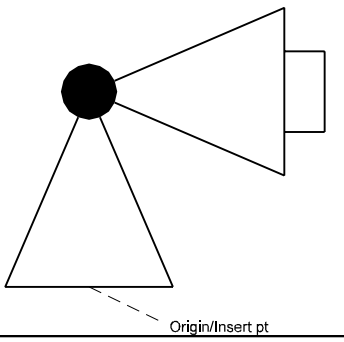


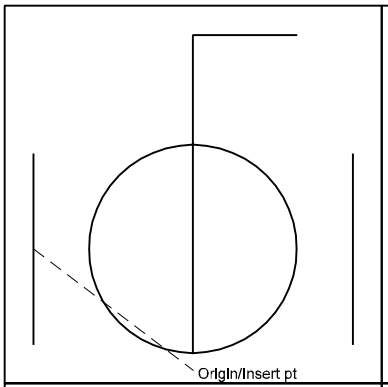
Plumbing:FDWT
FLOOR DRAIN WITH TRAP
Element type: Symbol

		
Plumbing:FLBLND BLIND FLANGE Element type: Symbol	Plumbing:FLOW3 FLOW ARROW Element type: Symbol	Plumbing:FLRPEN FLOOR PENETRATION ISO Element type: Symbol
		
Plumbing:GAUGE GAUGE Element type: Symbol	Plumbing:HANGRD HANGER ROD Element type: Symbol	Plumbing:HANGSP HANGER SPRING Element type: Symbol
		
Plumbing:ISOEWC ISOMETRIC EWC Element type: Symbol	Plumbing:ISOLAV ISOMETRIC LAVATORIES Element type: Symbol	Plumbing:ISOMOP ISO MOP SINK Element type: Symbol

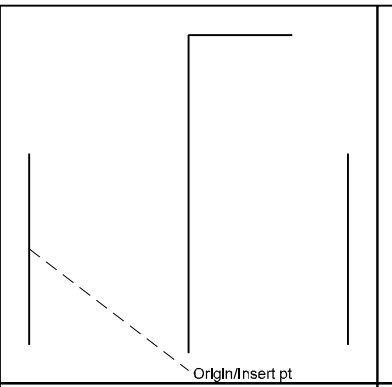
		
Plumbing:ISOUR1 ISO WALL MOUNTED URINAL Element type: Symbol	Plumbing:ISOWC1 ISO FLOOR MOUNTED WC Element type: Symbol	Plumbing:ISOWC2 ISO WALL MOUNTED WC Element type: Symbol
		
Plumbing:LOOPL LEFT DIMENSION LOOP Element type: Symbol	Plumbing:LOOPR RIGHT DIMENSION LOOP Element type: Symbol	Plumbing:PLGBFL BULL PLUG FLANGED Element type: Symbol
		
Plumbing:PLGPSC PIPE PLUG Element type: Symbol	Plumbing:PRGGCO PRESSURE GAGE AND COCK Element type: Symbol	Plumbing:PUMP PUMP Element type: Symbol

		
Plumbing:PUMPP PUMP SCHEMATIC Element type: Symbol	Plumbing:PUMPS INLINE PUMP Element type: Symbol	Plumbing:SLEEVE SLEEVE Element type: Symbol
		
Plumbing:STGLAS SIGHT GLASS Element type: Symbol	Plumbing:STRAIN STRAINER Element type: Symbol	Plumbing:STRBLO BLOW OFF STRAINER Element type: Symbol
		
Plumbing:TDSSC DOUBLE SWEEP TEE Element type: Symbol	Plumbing:THERM THERMOMETER Element type: Symbol	Plumbing:TRAPST STEAM TRAP Element type: Symbol

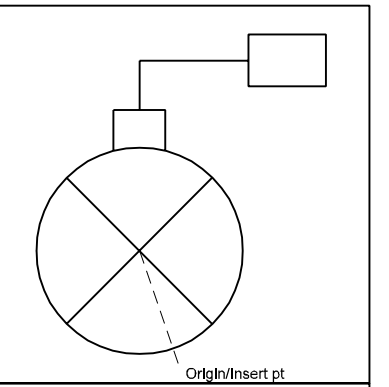
		
Plumbing:TSODSC TEE SIDE OUTLET DOWN Element type: Symbol	Plumbing:TSOUSC TEE SIDE OUTLET UP Element type: Symbol	Plumbing:TSSSC TEE Element type: Symbol
		
Plumbing:TSSWSC SINGLE SWEEP TEE Element type: Symbol	Plumbing:UNIOSC UNION Element type: Symbol	Plumbing:VA3WAM 3WAY AIRMOTOR CONTROLER Element type: Symbol
		
Plumbing:VA3WEM 3WAY ELECMOTOR CONTRLE Element type: Symbol	Plumbing:VA3WM 3 WAY MANUAL VALVE Element type: Symbol	Plumbing:VAAHOS ANGLE HOSE VALVE Element type: Symbol



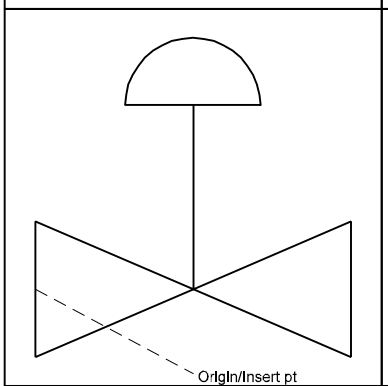
Plumbing:VABALL
BALL VALVE PLAN
Element type: Symbol



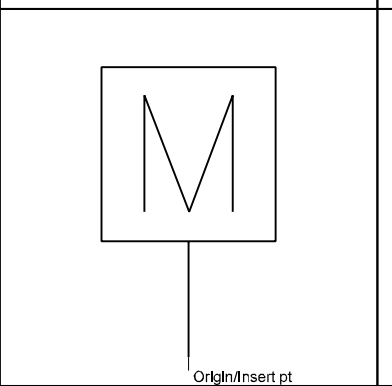
Plumbing:VABFLY
BUTTERFLY VALVE
Element type: Symbol



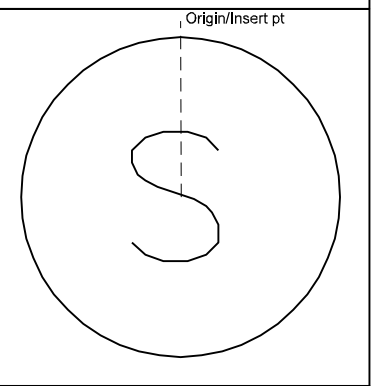
Plumbing:VACWR
CONDENSWATER REGULATVALVE
Element type: Symbol



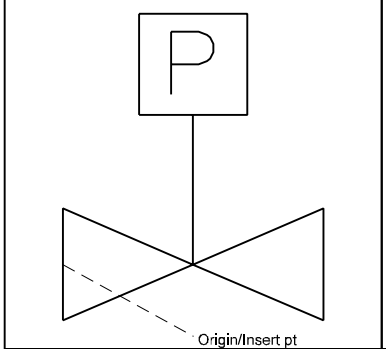
Plumbing:VADISC
DIAPHRAGM VALVE
Element type: Symbol



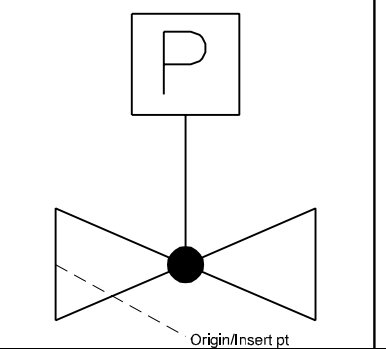
Plumbing:VAEMTR
PNEUMATIC MOTOR
Element type: Symbol



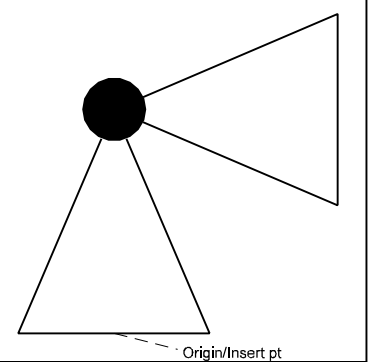
Plumbing:VAESOL
SOLENOID VALVE ACTUATOR
Element type: Symbol



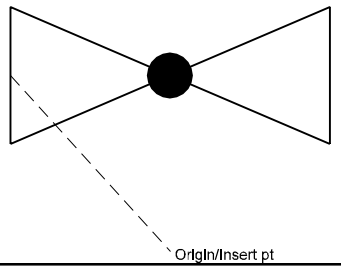
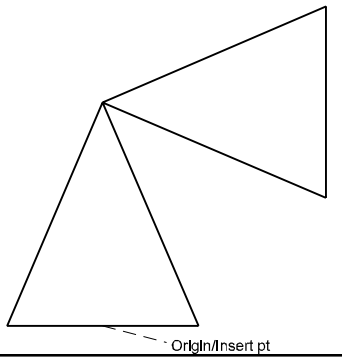
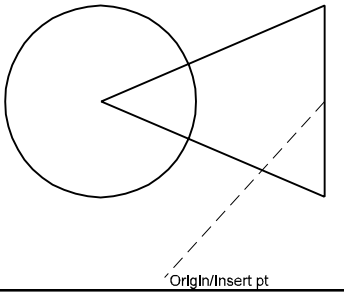
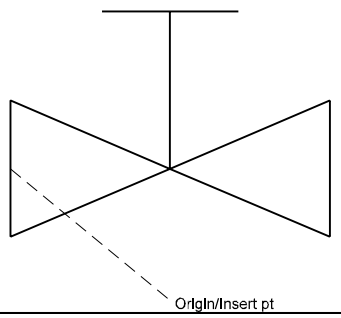
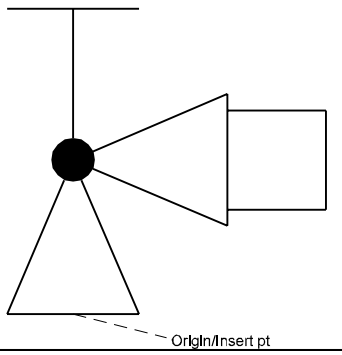
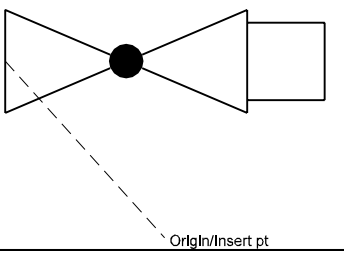
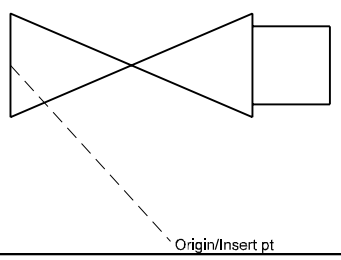
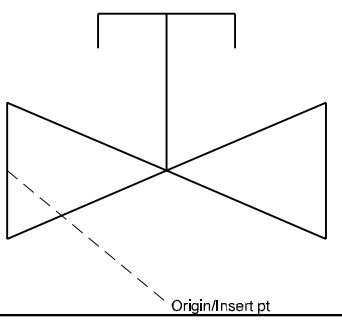
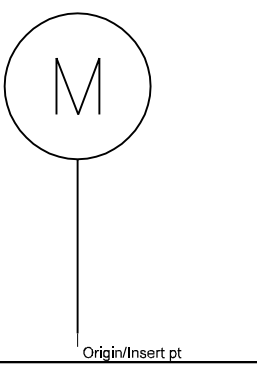
Plumbing:VAGAMC
PNEUMATIC CTRLD GATE VALVE
Element type: Symbol

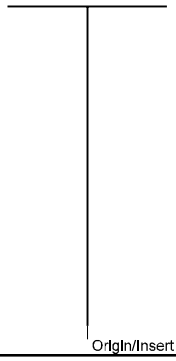
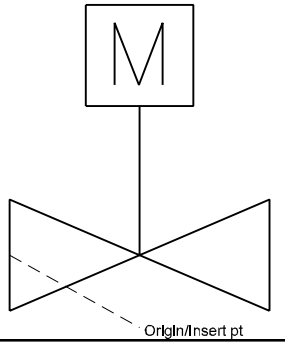
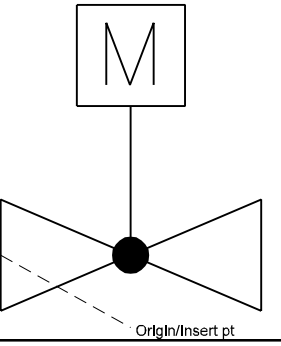
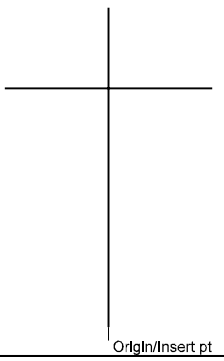
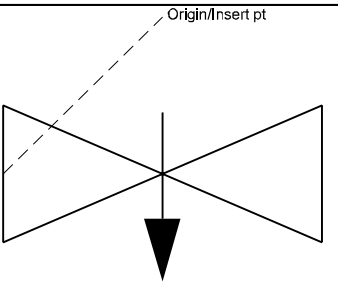
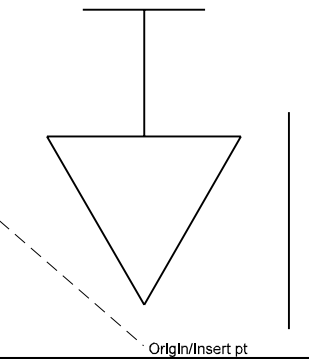
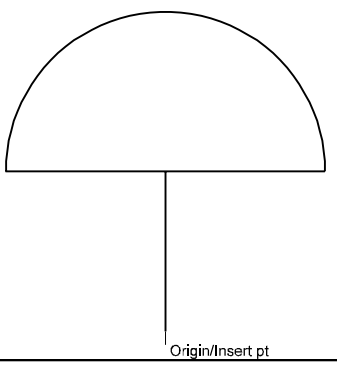
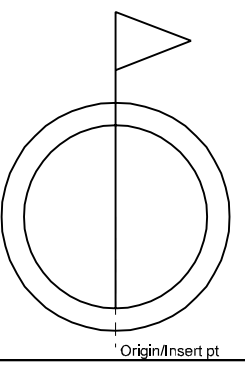
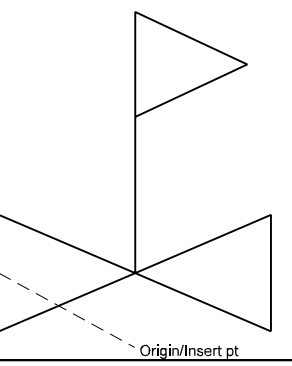


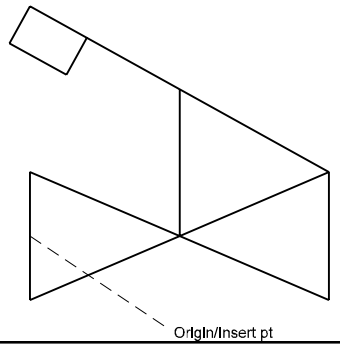
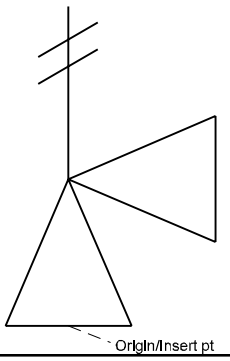
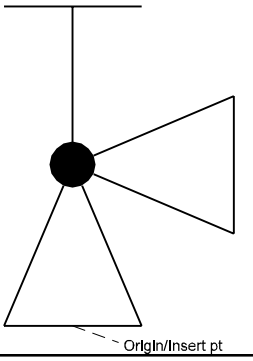
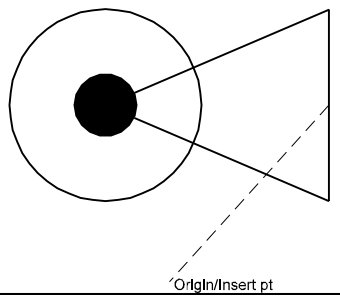
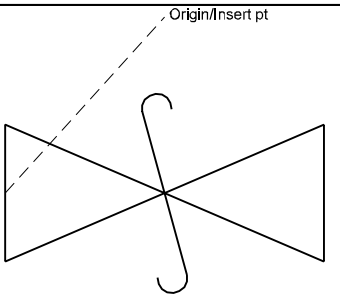
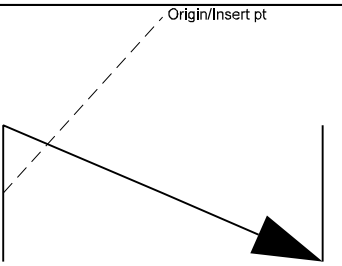
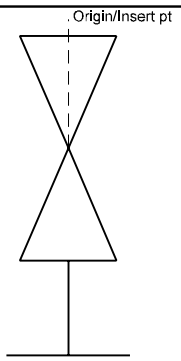
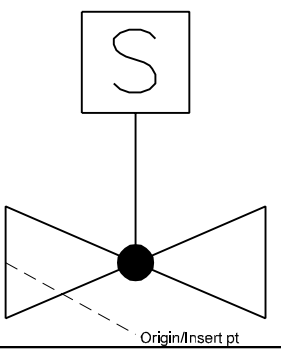
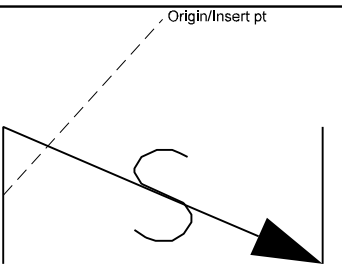
Plumbing:VAGLAM
PNEUMATIC CTRLD GLOBE VLV
Element type: Symbol

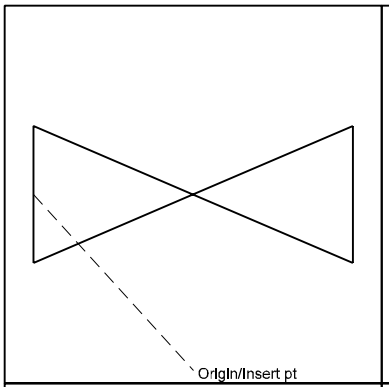


Plumbing:VAGLE
ANGLE GLOBE VALVE
Element type: Symbol

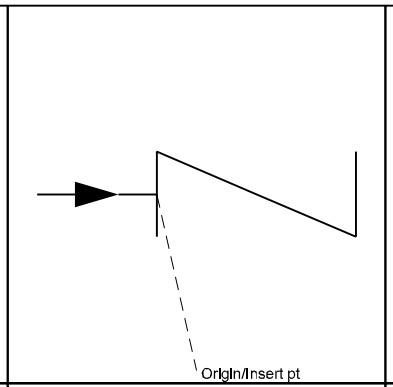
		
Plumbing:VAGLSE GLOBE VALVE Element type: Symbol	Plumbing:VAGSE ANGLE GATE VALVE Element type: Symbol	Plumbing:VAGSP ANGLE GATE VALVE PLAN Element type: Symbol
		
Plumbing:VAGTSE GATE VALVE Element type: Symbol	Plumbing:VAHASC GATE VALVE PLAN Element type: Symbol	Plumbing:VAHGLS HOSE GLOBE VALVE Element type: Symbol
		
Plumbing:VAHGSC HOSE GATE VALVE Element type: Symbol	Plumbing:VALSSC LOCK SHIELD VALVE Element type: Symbol	Plumbing:VAMAGS MAGNETIC STOP VALVE Element type: Symbol

		
Plumbing:VAMNNS VLV ACTUA MAN NONRISINGSTEM Element type: Symbol	Plumbing:VAMOGS MOTOR OPERATD GATE VALVE Element type: Symbol	Plumbing:VAMOLS MOTOR OPERATD GLOBE VALVE Element type: Symbol
		
Plumbing:VAMOSY VLV ACTTOR MAN OUTSTEM Element type: Symbol	Plumbing:VANEED NEEDLE VALVE Element type: Symbol	Plumbing:VAPLUG PLUG VALVE Element type: Symbol
		
Plumbing:VAPMTD VALVE ACTUATOR PNEUMOT Element type: Symbol	Plumbing:VAPRED PRESSURE REDUCING VALVE Element type: Symbol	Plumbing:VAPRRD PRESSURE REDUCING VALVE Element type: Symbol

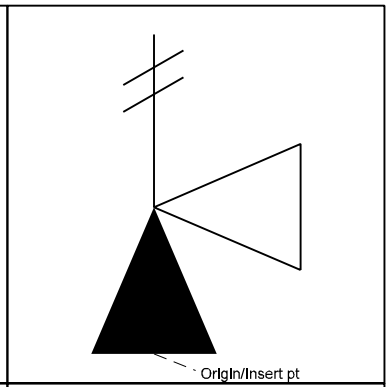
		
Plumbing:VAQOSC QUICK OPENING VALVE Element type: Symbol	Plumbing:VARELF RELIEF OR SAFETY VALVE Element type: Symbol	Plumbing:VASCE ANGLE GLOBE VALVE Element type: Symbol
		
Plumbing:VASCP ANGLE GLOBE VALVE PLAN Element type: Symbol	Plumbing:VASFSC SAFETY VALVE Element type: Symbol	Plumbing:VASGCH SWING GATE CHECK VALVE Element type: Symbol
		
Plumbing:VASNAP SNAP ACTION VALVE Element type: Symbol	Plumbing:VASOLN SOLENOID VALVE Element type: Symbol	Plumbing:VASPCH SPRING CHECK VALVE Element type: Symbol



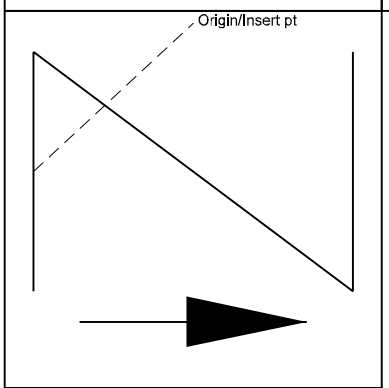
Plumbing:VASTSC
GATE VALVE
Element type: Symbol



Plumbing:VASWSC
STRAIGHT WAY CHECK VALVE
Element type: Symbol



Plumbing:VATPR
TEMP PRESSURE RELIEF VALVE
Element type: Symbol



Plumbing:VLVCHK
CHECK VALVE
Element type: Symbol

12 Mechanical Lines Library

A C I D	A T V	B B D
Mechanical: ACIDWS ACID WASTE Element type: Line	Mechanical: AIRRLF ATMOSPHERIC VENT Element type: Line	Mechanical: BOILBD BOILER BLOW DOWN Element type: Line
B R	B	C D
Mechanical: BRINER BRINE RETURN Element type: Line	Mechanical: BRINES BRINE SUPPLY Element type: Line	Mechanical: CDRNAF CONDENSATE DRAIN Element type: Line
A	P C	C R
Mechanical: CMPAIR COMPRESSED AIR Element type: Line	Mechanical: CONDP PUMPED CONDENSATE Element type: Line	Mechanical: CONDWR CONDENSER WATER RETURN Element type: Line

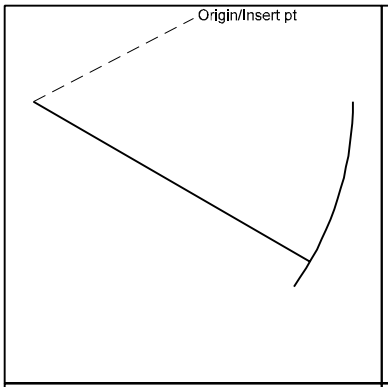
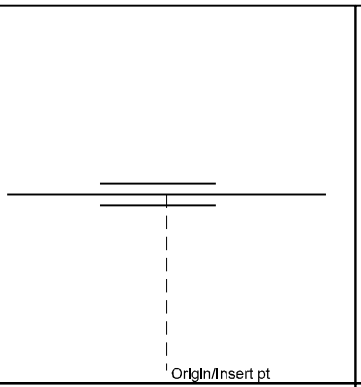
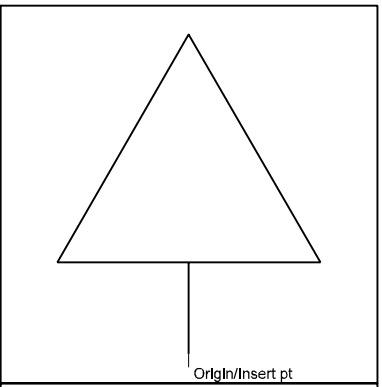
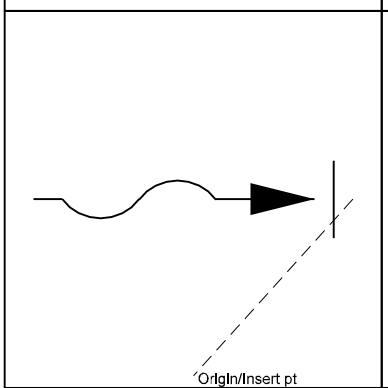
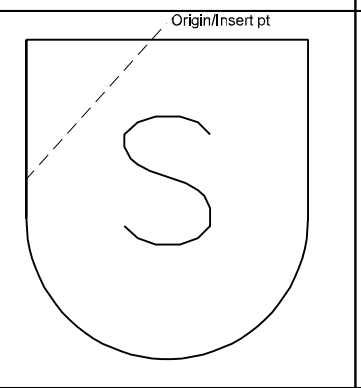
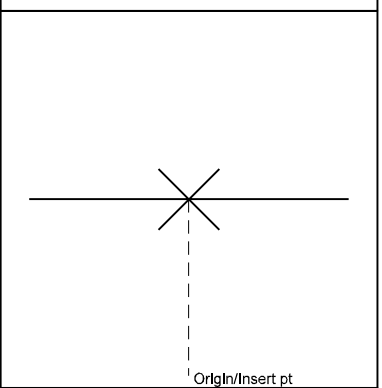
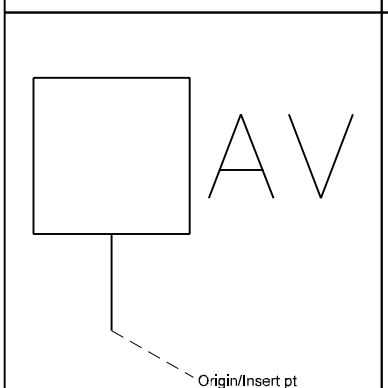
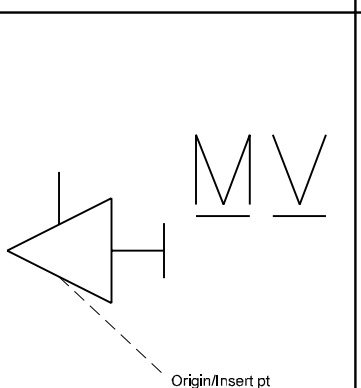
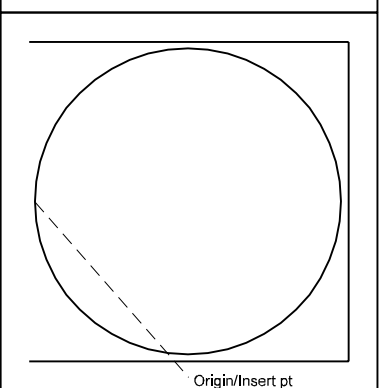
C	CWR	CWS
Mechanical: CONDWS CONDENSER WATER SUPPLY Element type: Line	Mechanical: CWR CHILLED WATER RETURN Element type: Line	Mechanical: CWS CHILLED WATER SUPPLY Element type: Line
HCR	HCS	FILL
Mechanical: DTR DUAL TEMPERATURE RETURN Element type: Line	Mechanical: DTS DUAL TEMPERATURE SUPPLY Element type: Line	Mechanical: FILL FILL LINE Element type: Line
GHR	GHS	HPC
Mechanical: GHR GLYCOL HEATING RETURN Element type: Line	Mechanical: GHS GLYCOL HEATING SUPPLY Element type: Line	Mechanical: HPCNDR HIGH PRESSURE CONDENSATE Element type: Line

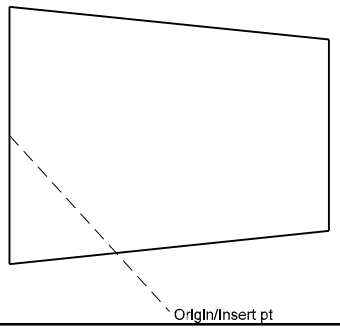
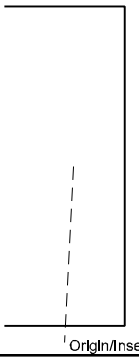
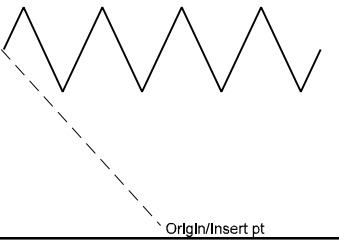
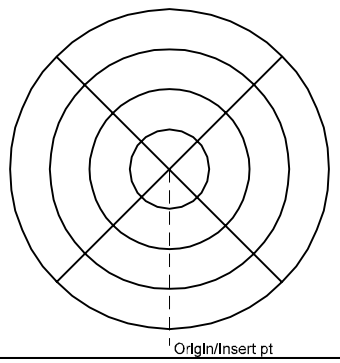
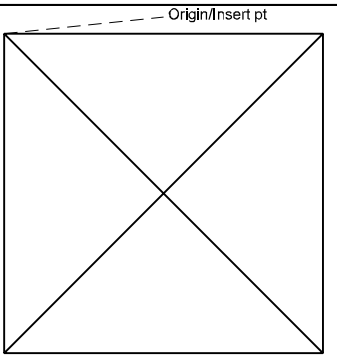
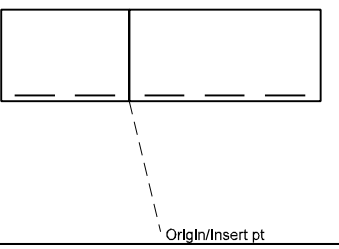
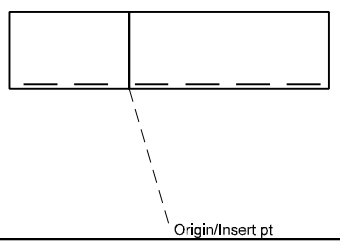
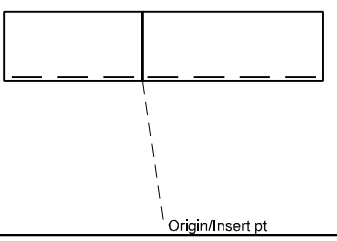
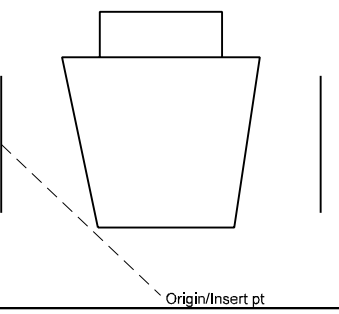
HTWR	HTWS	H
Mechanical: HTHWR HIGH TEMP HOT WATER RETURN Element type: Line	Mechanical: HTHWS HIGH TEMP HOT WATER SUPPLY Element type: Line	Mechanical: HUMID HUMIDIFICATION LINE Element type: Line
HWR	HWS	ICW
Mechanical: HWR LOW TEMP HOT WATER RETURN Element type: Line	Mechanical: HWS LOW TEMP HOT WATER SUPPLY Element type: Line	Mechanical: ICWTR INDUSTRIAL COLD WATER Element type: Line
IHR	IHW	IW
Mechanical: IHWTRR INDUSTRIAL HOT WATER RETURN Element type: Line	Mechanical: IHWTRS INDUSTRIAL HOT WATER SUPPLY Element type: Line	Mechanical: IWASTE INDUSTRIAL WASTE Element type: Line

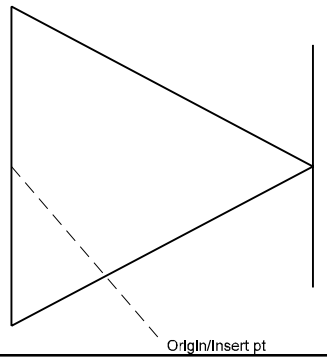
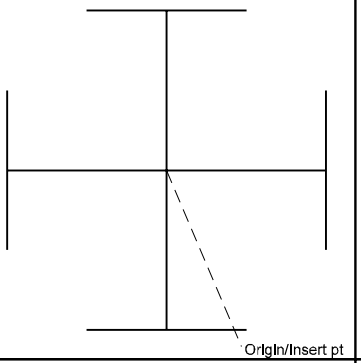
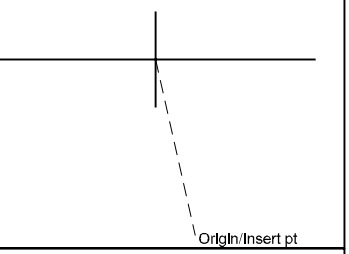
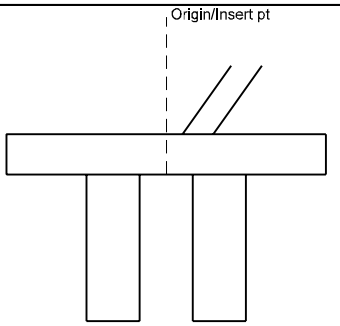
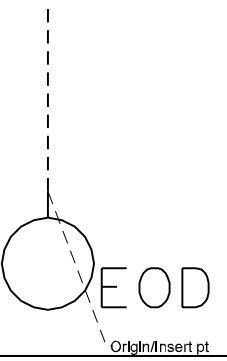
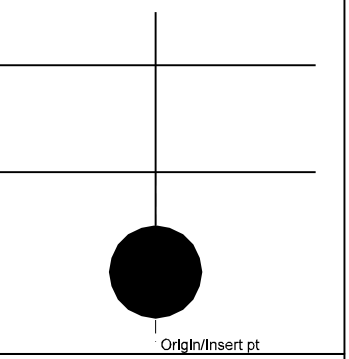
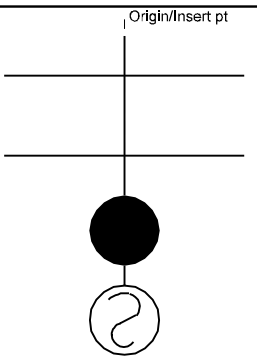
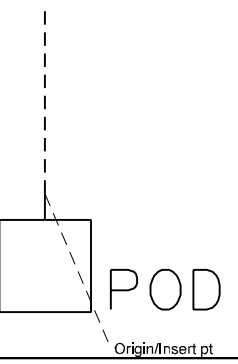
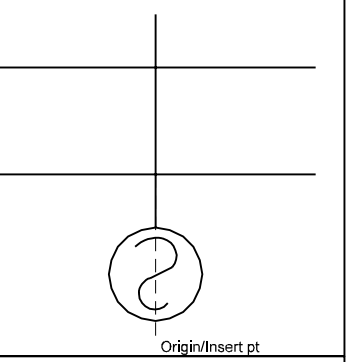
LPC	MU	MPC
Mechanical: LPCNDR LOW PRESSURE CONDENSATE Element type: Line	Mechanical: MAKEUP MAKEUP WATER Element type: Line	Mechanical: MPCNDR MED PRESSURE CONDENSATE Element type: Line
MTWR	MTWS	NPW
Mechanical: MTHWR MED TEMP HOT WATER RETURN Element type: Line	Mechanical: MTHWS MED TEMP HOT WATER SUPPLY Element type: Line	Mechanical: NONPOT NONPOTABLE WATER Element type: Line
PN	RL	RS
Mechanical: PNTUBE PNEUMATIC TUBE RUNS Element type: Line	Mechanical: REFRL REFRIGERANT LIQUID Element type: Line	Mechanical: REFRS REFRIGERANT SUCTION Element type: Line

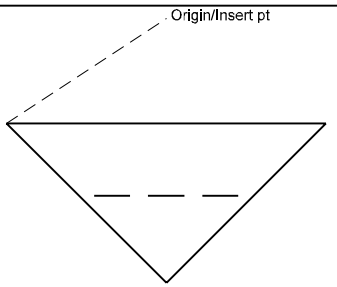
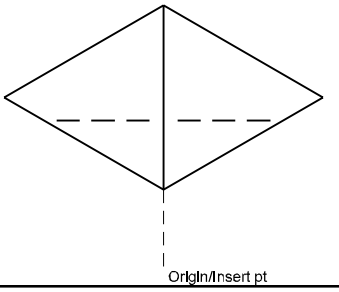
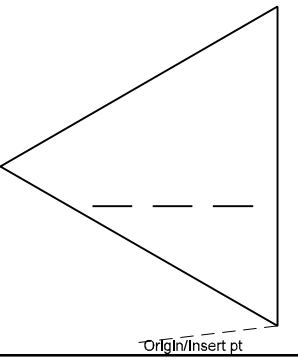
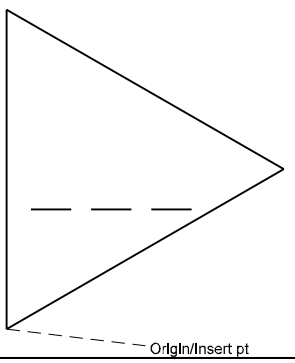
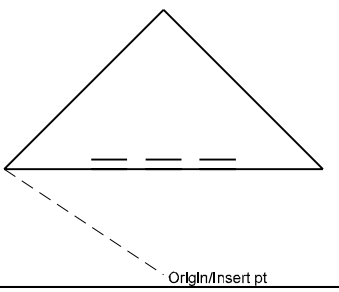
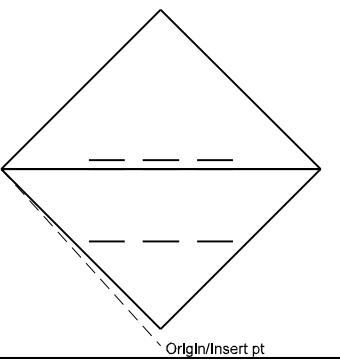
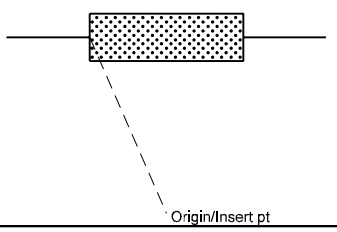
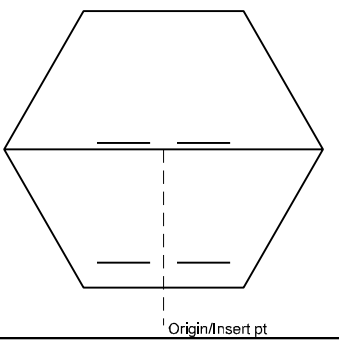
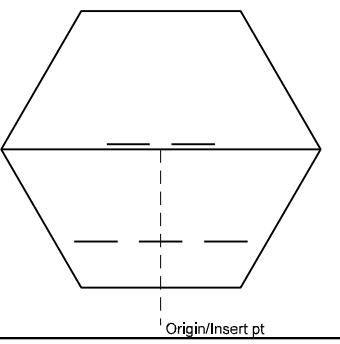
HPS	LPS	MPS
Mechanical: STEAMH HIGH PRESSURE STEAM Element type: Line	Mechanical: STEAML LOW PRESSURE STEAM Element type: Line	Mechanical: STEAMM MED PRESSURE STEAM Element type: Line
((((((((	VAC	VPD
Mechanical: TUVANE TURNING VANES Element type: Line	Mechanical: VACAIR VACUUM AIR Element type: Line	Mechanical: VACPD VACUUM PUMP DISCHARGE Element type: Line

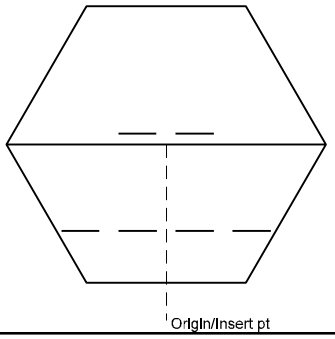
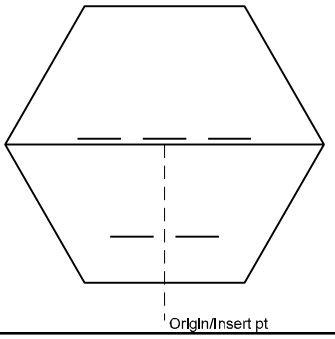
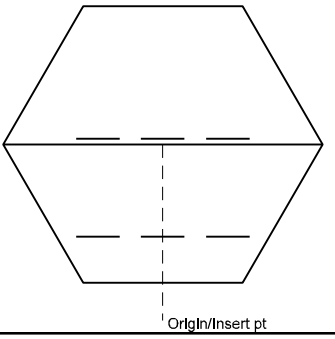
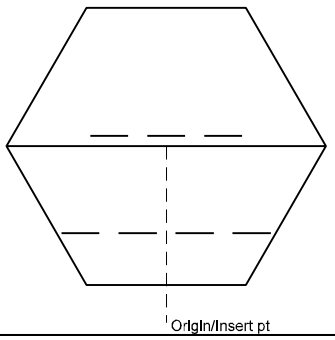
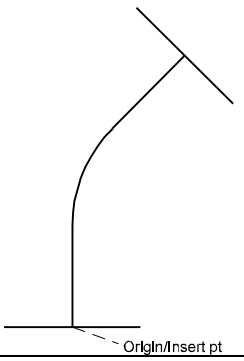
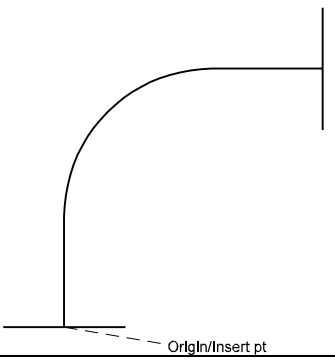
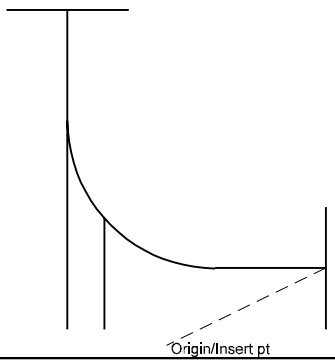
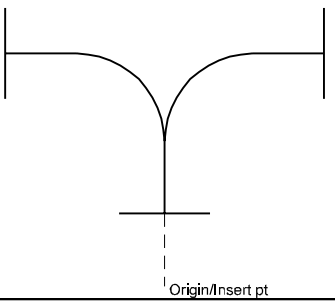
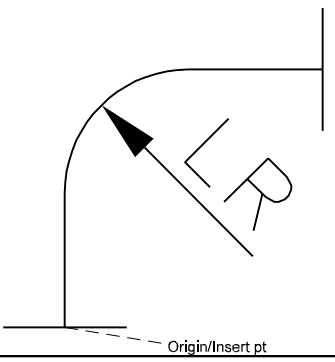
12 Mechanical Symbols Library

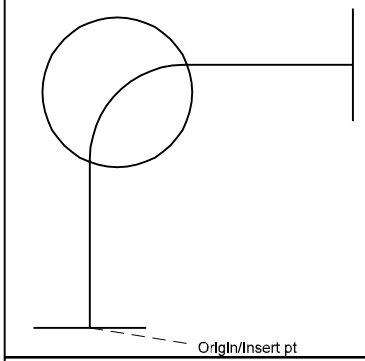
		
Mechanical: ACCDOR DUCT ACCESS DOOR Element type: Symbol	Mechanical: AGUIDE ALIGNMENT GUIDE Element type: Symbol	Mechanical: AIRELM AIR ELIMINATOR Element type: Symbol
		
Mechanical: AIRIN AIR IN Element type: Symbol	Mechanical: AIRSEP AIR SEPARATOR Element type: Symbol	Mechanical: ANCHRI ANCHOR Element type: Symbol
		
Mechanical: AVENTA AUTOMATIC AIR VENT Element type: Symbol	Mechanical: AVENTM MANUAL AIR VENT Element type: Symbol	Mechanical: BALLJT BALL JOINT Element type: Symbol

		
Mechanical: BUSHSC BUSHING Element type: Symbol	Mechanical: CAPSC CAP Element type: Symbol	Mechanical: CAPTUB CAPILLARY TUBE Element type: Symbol
		
Mechanical: CDRND ROUND CEILING DIFFUSER Element type: Symbol	Mechanical: CDSQR SQUARE CEILING DIFFUSER Element type: Symbol	Mechanical: CFM2X3 AIRFLOW CFM Element type: Symbol
		
Mechanical: CFM2X4 AIRFLOW CFM Element type: Symbol	Mechanical: CFM3X4 AIRFLOW CFM Element type: Symbol	Mechanical: COCKSC COCK Element type: Symbol

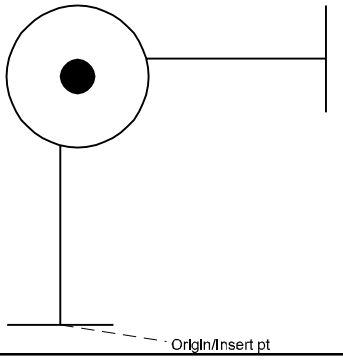
		
Mechanical: CREDSC REDUCER CONCENTRIC Element type: Symbol	Mechanical: CRSRSC CROSS Element type: Symbol	Mechanical: CUPJNT COUPLING JOINT Element type: Symbol
		
Mechanical: DCTHTR ELECTRIC DUCT HEATER Element type: Symbol	Mechanical: DMPEOC ELECT OPERATED DAMPER Element type: Symbol	Mechanical: DMPFIR FIRE DAMPER Element type: Symbol
		
Mechanical: DMPFS FIRE SMOKE DAMPER Element type: Symbol	Mechanical: DMPPOD PNEUMATIC DAMPER Element type: Symbol	Mechanical: DMPSMK SMOKE DAMPER Element type: Symbol

		
Mechanical: DPRSD DUCT PRESSURE CLASS DOWN Element type: Symbol	Mechanical: DPRSH DUCT PRESSURE HORIZONTAL Element type: Symbol	Mechanical: DPRSL DUCT PRESSURE LEFT Element type: Symbol
		
Mechanical: DPRSR DUCT PRESSURE RIGHT Element type: Symbol	Mechanical: DPRSU DUCT PRESSURE CLASS UP Element type: Symbol	Mechanical: DPRSV DUCT PRESSURE CLASS VERT Element type: Symbol
		
Mechanical: DRIER DRIER Element type: Symbol	Mechanical: EEQ2X2 ELEC. EQUIP 2X2 MARK Element type: Symbol	Mechanical: EEQ2X3 ELEC. EQUIP 2X3 MARK Element type: Symbol

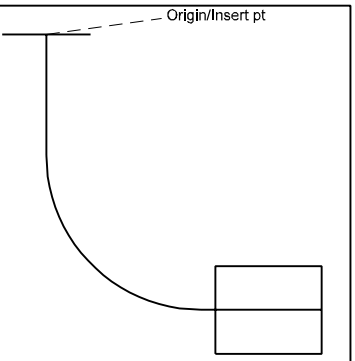
		
Mechanical: EEQ2X4 ELEC EQUIP 2X4 MARK Element type: Symbol	Mechanical: EEQ3X2 ELEC EQUIP 3X2 MARK Element type: Symbol	Mechanical: EEQ3X3 ELEC EQUIP 3X3 MARK Element type: Symbol
		
Mechanical: EEQ3X4 ELEC EQUIP 3X4 MARK Element type: Symbol	Mechanical: EL45SC 45 DEGREE ELBOW Element type: Symbol	Mechanical: EL90SC 90 DEGREE ELBOW Element type: Symbol
		
Mechanical: ELBSC BASE ELBOW Element type: Symbol	Mechanical: ELDBSC DOUBLE BRANCH ELBOW Element type: Symbol	Mechanical: ELLRSC LONG RADIUS ELBOW Element type: Symbol



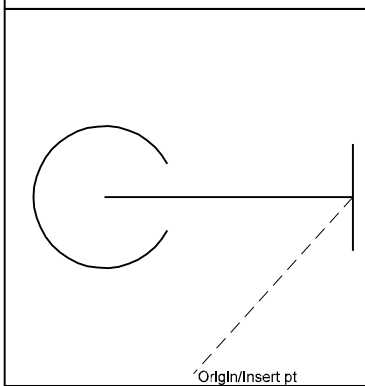
Mechanical: ELODSC
ELBOW SIDE OUTLET DOWN
Element type: Symbol



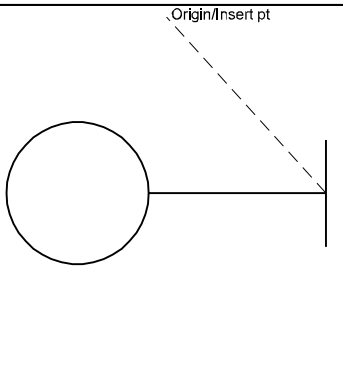
Mechanical: ELOUSC
ELBOW SIDE OUTLET UP
Element type: Symbol



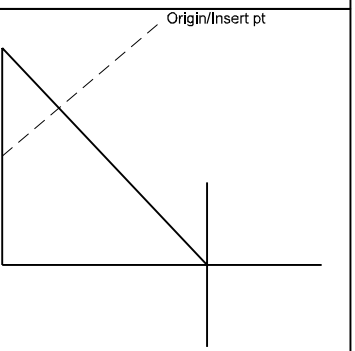
Mechanical: ELSTRT
STREET ELBOW
Element type: Symbol



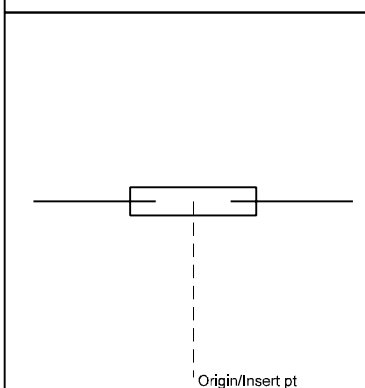
Mechanical: ELTDSC
TURNED DOWN ELBOW
Element type: Symbol



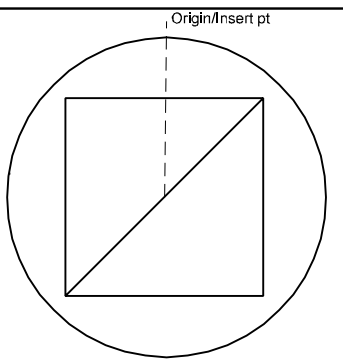
Mechanical: ELTUSC
TURNED UP ELBOW
Element type: Symbol



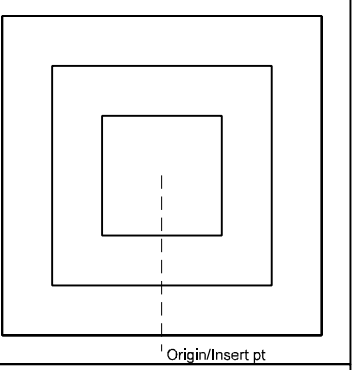
Mechanical: EREDSC
ECCENTRIC REDUCER
Element type: Symbol



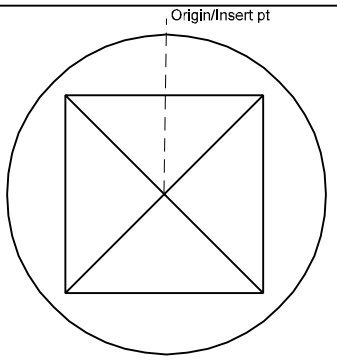
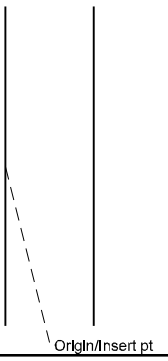
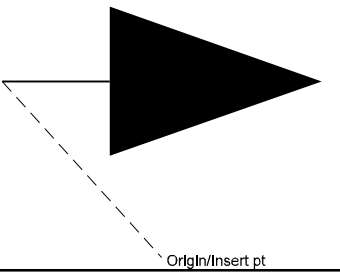
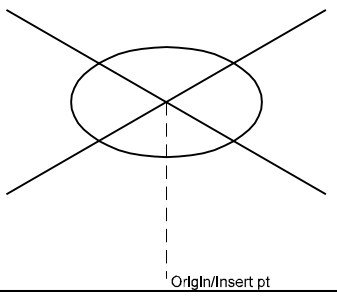
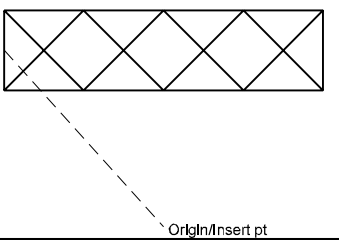
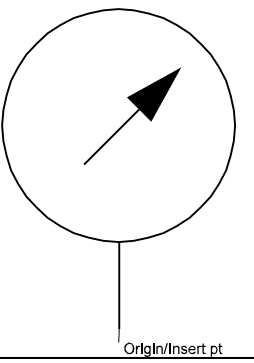
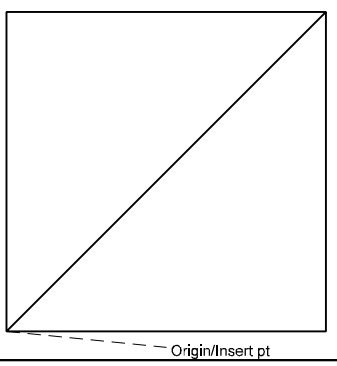
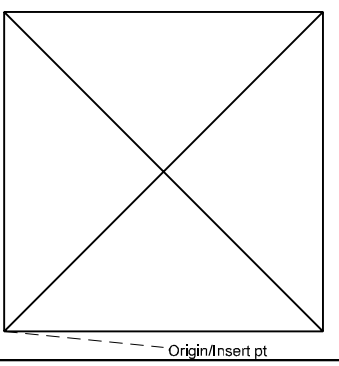
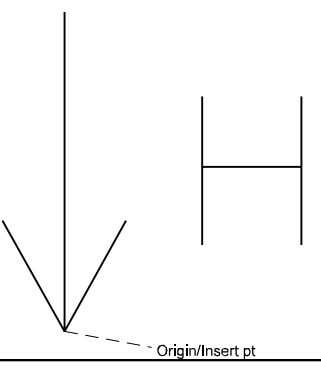
Mechanical: EXPJNT
EXPANSION JOINT
Element type: Symbol

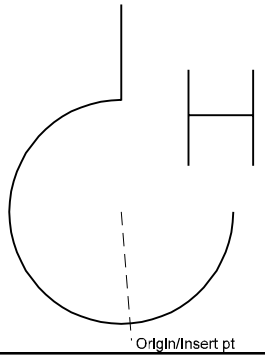
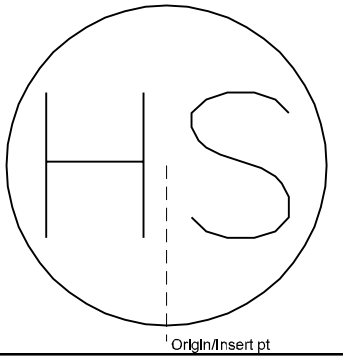
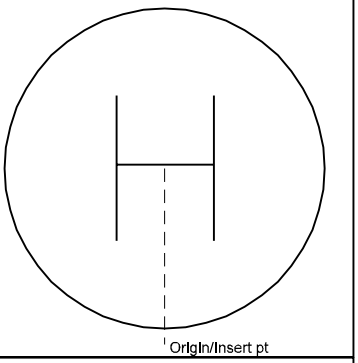
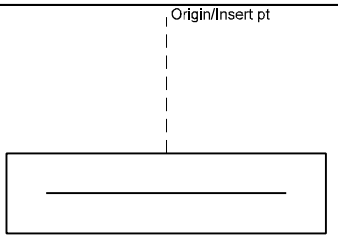
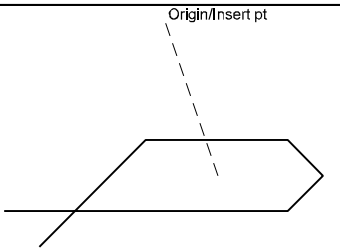
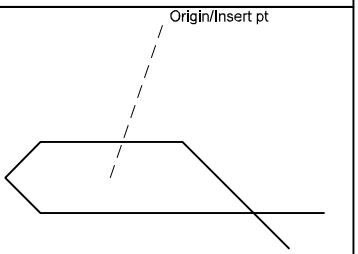
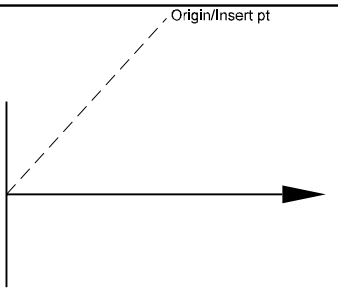
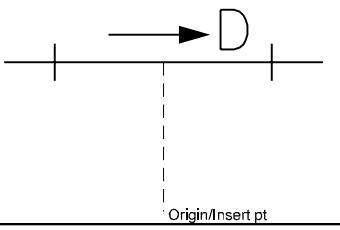
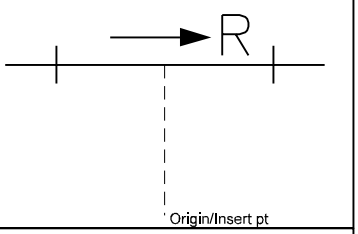


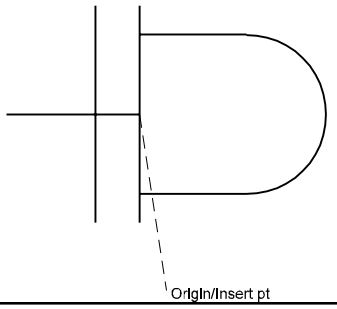
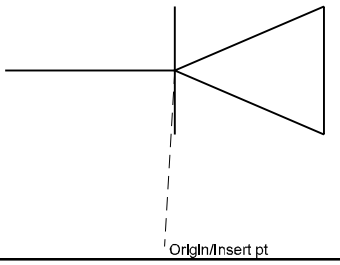
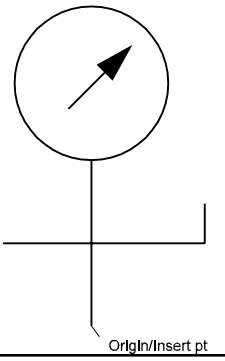
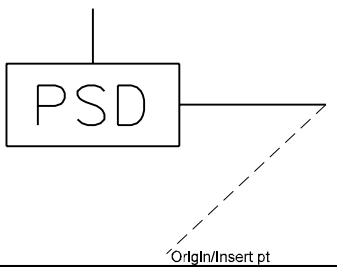
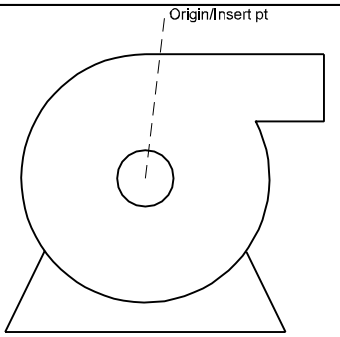
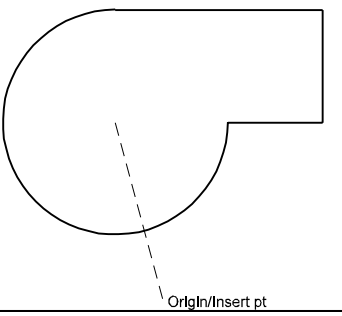
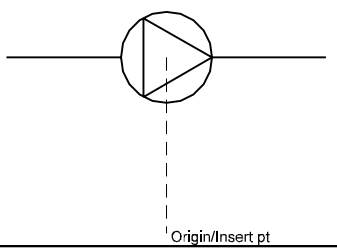
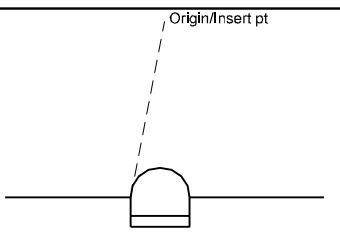
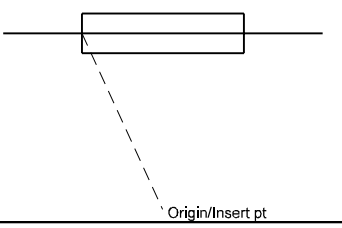
Mechanical: FANERV
EXHAUST ROOF VENT FAN
Element type: Symbol

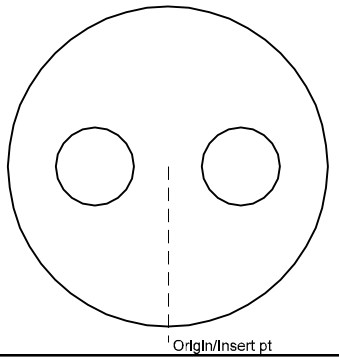
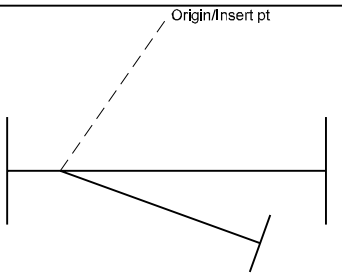
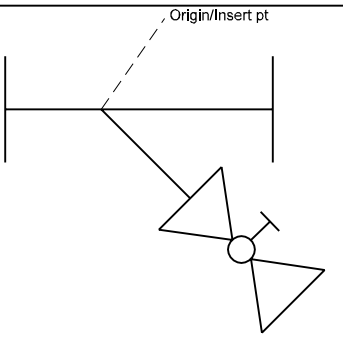
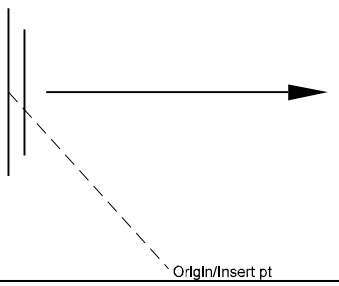
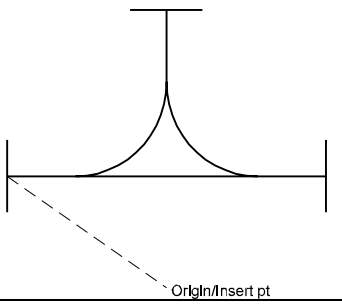
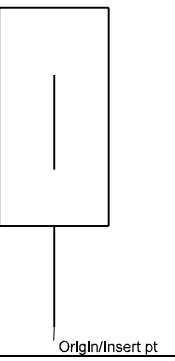
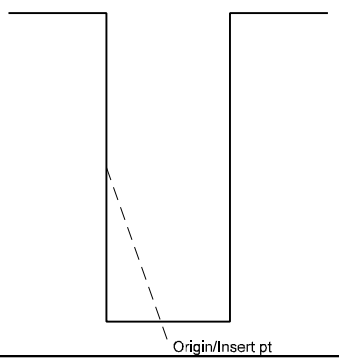
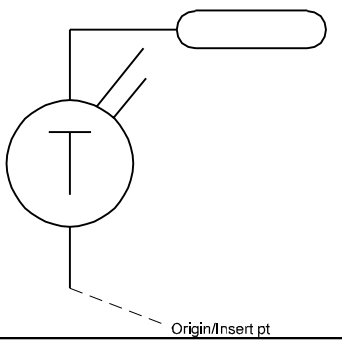
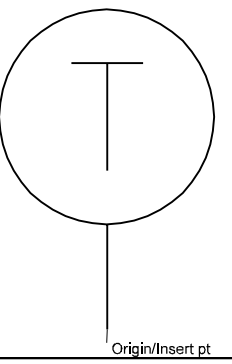


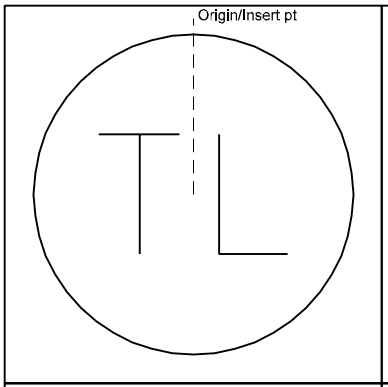
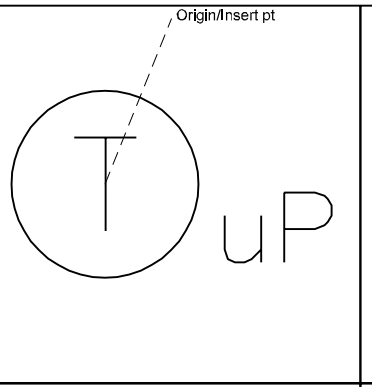
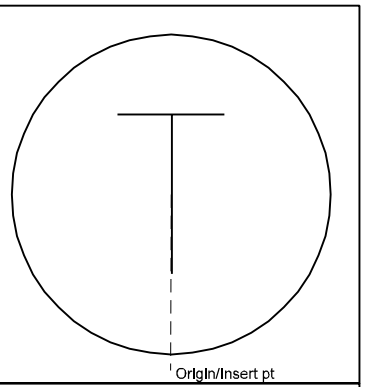
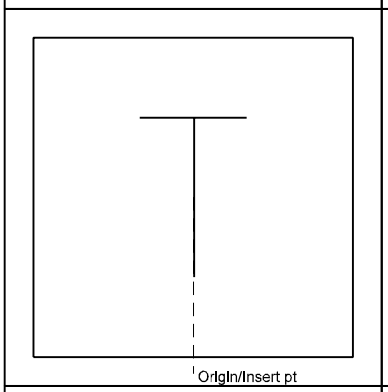
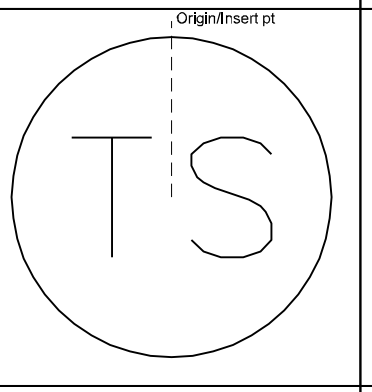
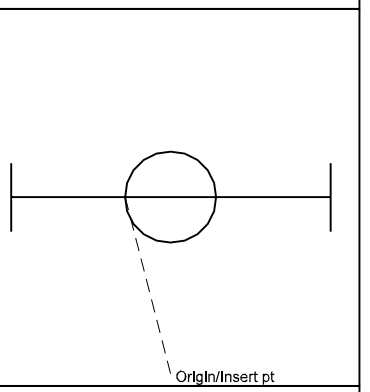
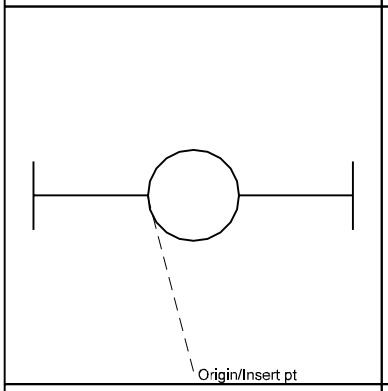
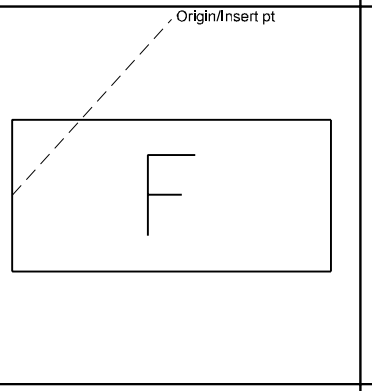
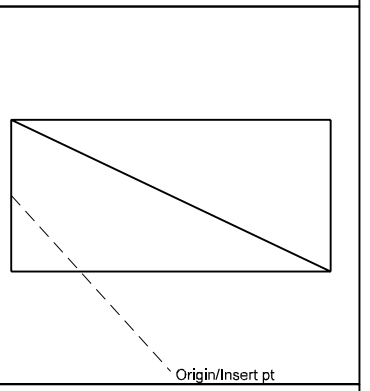
Mechanical: FANLRV
LOUVERED ROOF VENT FAN
Element type: Symbol

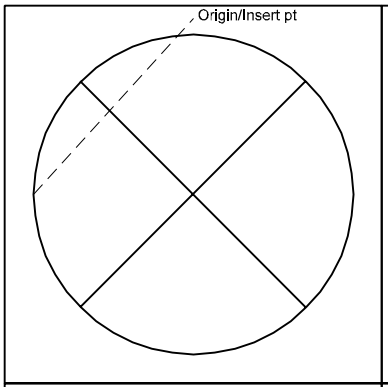
		
Mechanical: FANSRV INTAKE ROOF VENT FAN Element type: Symbol	Mechanical: FLBLND BLIND FLANGE Element type: Symbol	Mechanical: FLOW1 AIR FLOW DIRECTION ARROW Element type: Symbol
		
Mechanical: FLRPEN FLOOR PENETRATION ISO Element type: Symbol	Mechanical: FLXCON FLEXIBLE CONNECTOR Element type: Symbol	Mechanical: GAUGE GAUGE Element type: Symbol
		
Mechanical: GRILEX EXHAUST GRILLE Element type: Symbol	Mechanical: GRILSU SUPPLY GRILLE Element type: Symbol	Mechanical: HANGRD HANGER ROD Element type: Symbol

		
Mechanical: HANGSP HANGER SPRING Element type: Symbol	Mechanical: HSENS HUMIDITY SENSOR Element type: Symbol	Mechanical: HSTAT HUMIDISTAT Element type: Symbol
		
Mechanical: LNDIFF LINEAR DIFFUSER Element type: Symbol	Mechanical: LOOPL LEFT DIMENSION LOOP Element type: Symbol	Mechanical: LOOPR RIGHT DIMENSION LOOP Element type: Symbol
		
Mechanical: LOUOPN DOOR OR WALL LOUVER Element type: Symbol	Mechanical: PIDROP PITCH OR PIPE DROP Element type: Symbol	Mechanical: PIRISE PITCH OR PIPE RISE Element type: Symbol

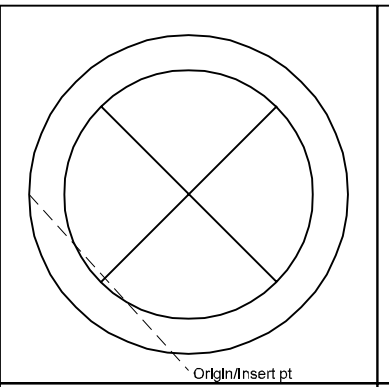
		
Mechanical: PLGBFL BULL PLUG FLANGED Element type: Symbol	Mechanical: PLGPSC PIPE PLUG Element type: Symbol	Mechanical: PRGGCO PRESSURE GAGE AND COCK Element type: Symbol
		
Mechanical: PSDIFF PUMP SUCTION DIFFUSER Element type: Symbol	Mechanical: PUMP PUMP Element type: Symbol	Mechanical: PUMPP PUMP SCHEMATIC Element type: Symbol
		
Mechanical: PUMPS INLINE PUMP Element type: Symbol	Mechanical: SCALET SCALE TRAP Element type: Symbol	Mechanical: SLEEVE SLEEVE Element type: Symbol

		
Mechanical: STGLAS SIGHT GLASS Element type: Symbol	Mechanical: STRAIN STRAINER Element type: Symbol	Mechanical: STRBLO BLOW OFF STRAINER Element type: Symbol
		
Mechanical: SUPOUT SUPPLY OUTLET WALL SUPPLY Element type: Symbol	Mechanical: TDSSC DOUBLE SWEEP TEE Element type: Symbol	Mechanical: THERM THERMOMETER Element type: Symbol
		
Mechanical: THERMW THERMOMETER WELL Element type: Symbol	Mechanical: THHRB THERMOSTAT REMOTE BULB Element type: Symbol	Mechanical: THHSC THERMOSTAT SELFCONTAINED Element type: Symbol

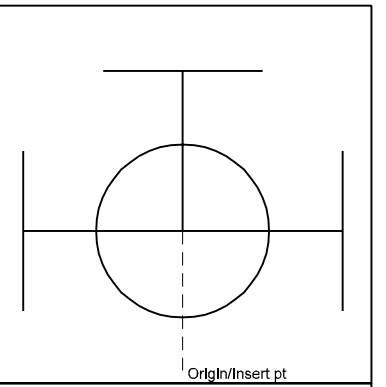
		
Mechanical: THLPRS THERMOSTAT LOW PRESSURE Element type: Symbol	Mechanical: THMCP MICROPROCESSOR THERMOSTAT Element type: Symbol	Mechanical: THPELE THERMOSTAT ELECTRIC Element type: Symbol
		
Mechanical: THPPNE THERMOSTAT PNEUMATIC PIPE Element type: Symbol	Mechanical: TMPSEN TEMPERATURE SENSOR Element type: Symbol	Mechanical: TODSC TEE OUTLET DOWN Element type: Symbol
		
Mechanical: TOUSC TEE OUTLET UP Element type: Symbol	Mechanical: TRAPFL FLOAT TRAP Element type: Symbol	Mechanical: TRAPFT FLOAT THERMOSTATIC TRAP Element type: Symbol



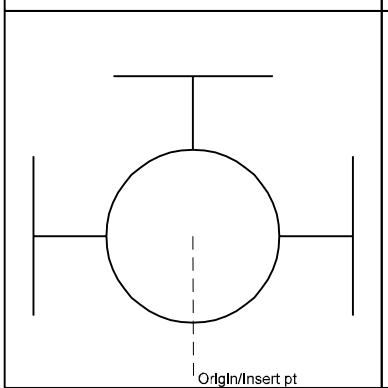
Mechanical: TRAPST
STEAM TRAP
Element type: Symbol



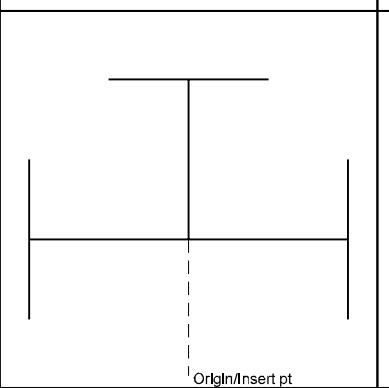
Mechanical: TRAPTB
THERMOSTATIC BLAST TRAP
Element type: Symbol



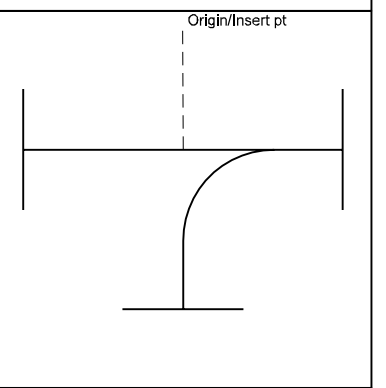
Mechanical: TSODSC
TEE SIDE OUTLET DOWN
Element type: Symbol



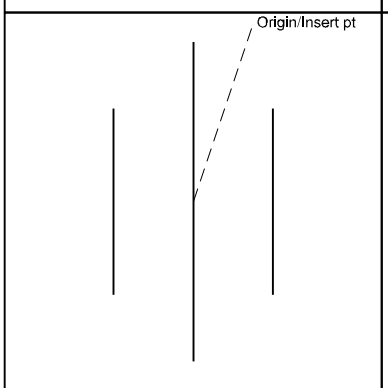
Mechanical: TSOUSC
TEE SIDE OUTLET UP
Element type: Symbol



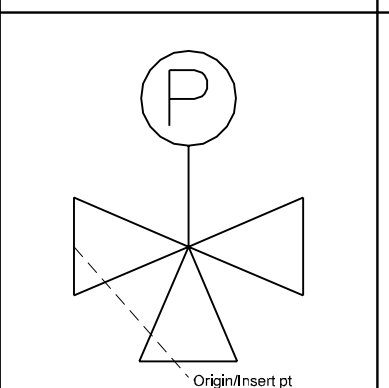
Mechanical: TSSSC
TEE
Element type: Symbol



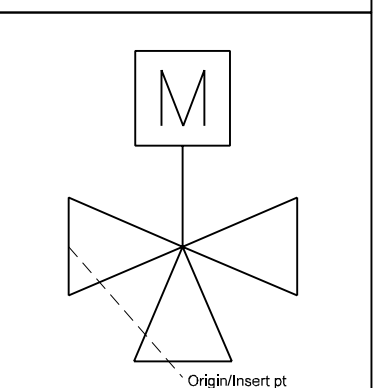
Mechanical: TSSWSC
SINGLE SWEEP TEE
Element type: Symbol



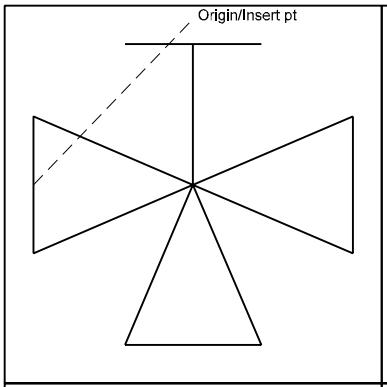
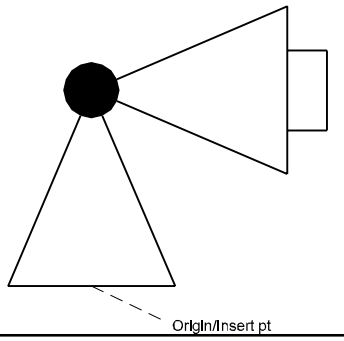
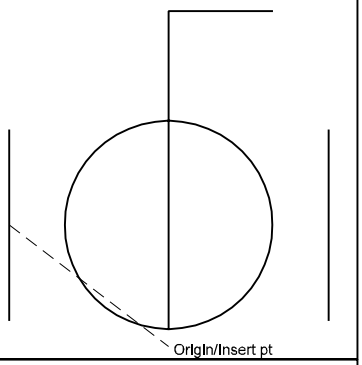
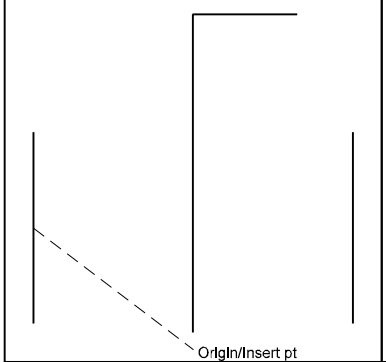
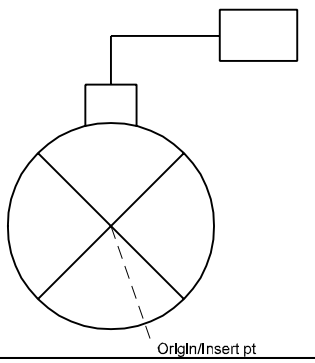
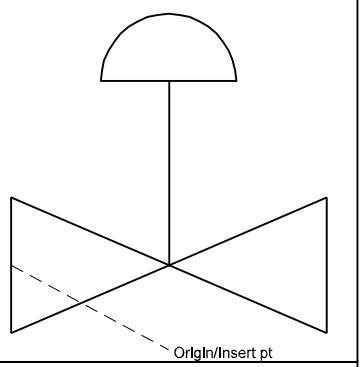
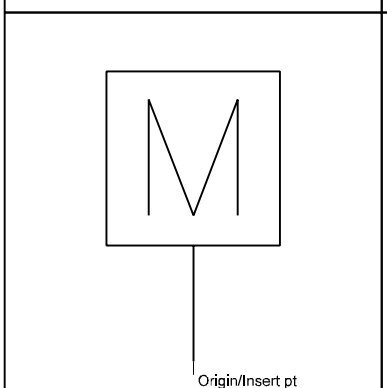
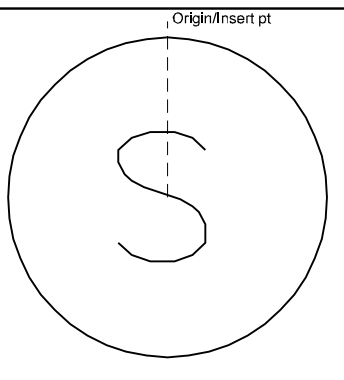
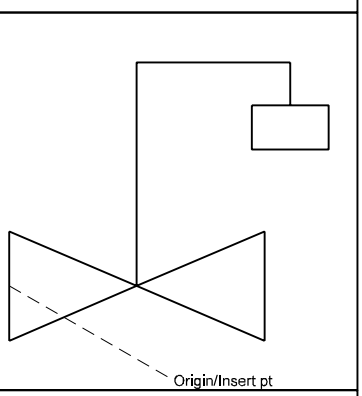
Mechanical: UNIOSC
UNION
Element type: Symbol

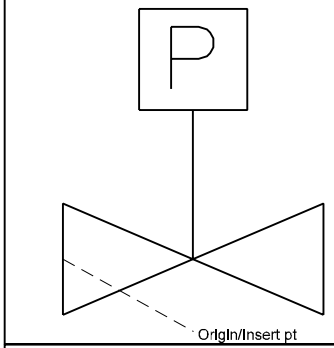


Mechanical: VA3WAM
3WAY AIRMOTOR CONTROLER
Element type: Symbol

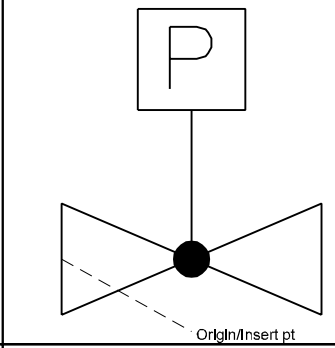


Mechanical: VA3WEM
3WAY ELECMOTOR CONTRLE
Element type: Symbol

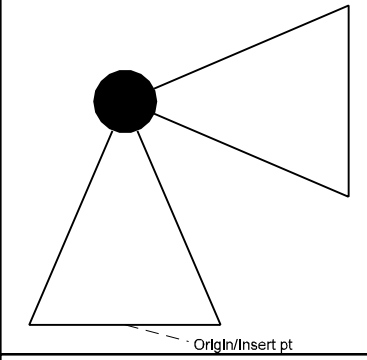
		
Mechanical: VA3WM 3 WAY MANUAL VALVE Element type: Symbol	Mechanical: VAAHOS ANGLE HOSE VALVE Element type: Symbol	Mechanical: VABALL BALL VALVE PLAN Element type: Symbol
		
Mechanical: VABFLY BUTTERFLY VALVE Element type: Symbol	Mechanical: VACWR CONDENSWATER REGULATVALVE Element type: Symbol	Mechanical: VADISC DIAPHRAGM VALVE Element type: Symbol
		
Mechanical: VAEMTR PNEUMATIC MOTOR Element type: Symbol	Mechanical: VAESOL SOLENOID VALVE ACTUATOR Element type: Symbol	Mechanical: VAFLSC FLOAT VALVE Element type: Symbol



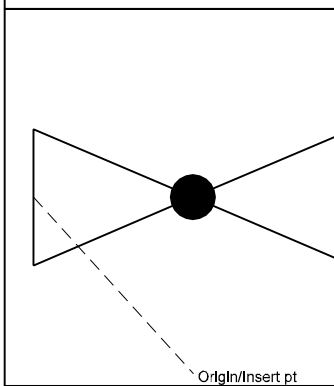
Mechanical: VAGAMC
PNEUMATIC CTRLD GATE VALVE
Element type: Symbol



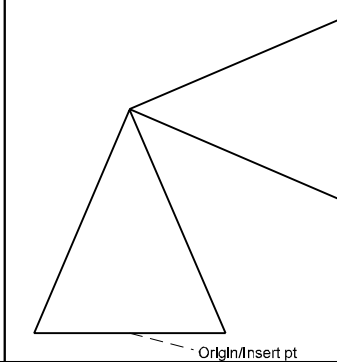
Mechanical: VAGLAM
PNEUMATIC CTRLD GLOBE VLV
Element type: Symbol



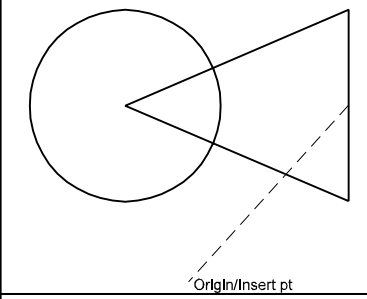
Mechanical: VAGLE
ANGLE GLOBE VALVE
Element type: Symbol



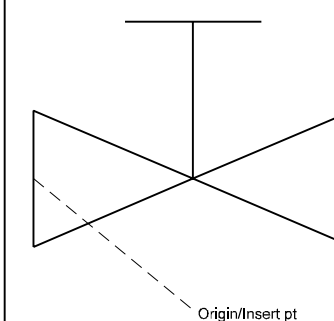
Mechanical: VAGLSE
GLOBE VALVE
Element type: Symbol



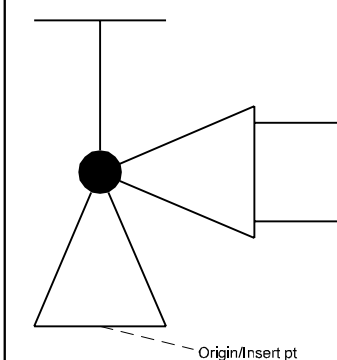
Mechanical: VAGSE
ANGLE GATE VALVE
Element type: Symbol



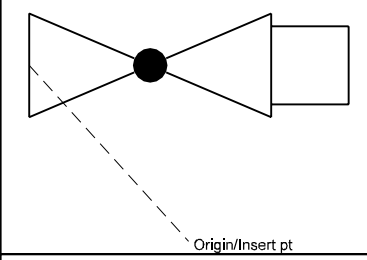
Mechanical: VAGSP
ANGLE GATE VALVE PLAN
Element type: Symbol



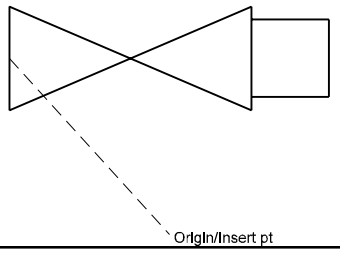
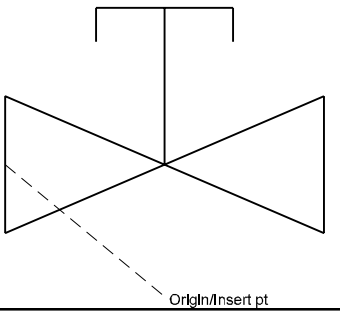
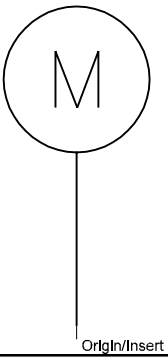
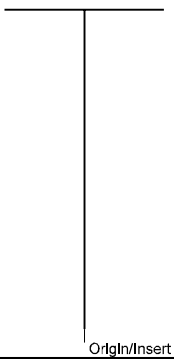
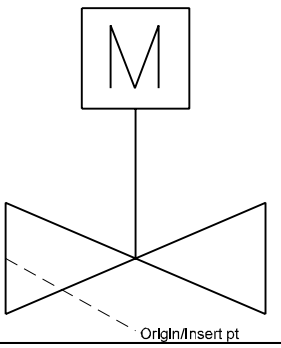
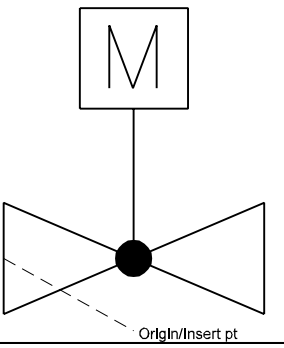
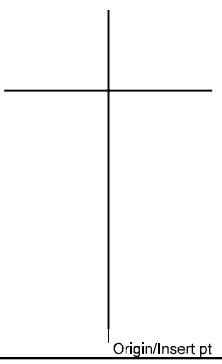
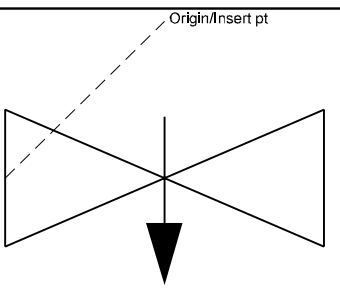
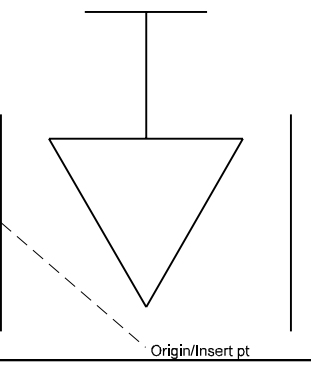
Mechanical: VAGTSE
GATE VALVE
Element type: Symbol

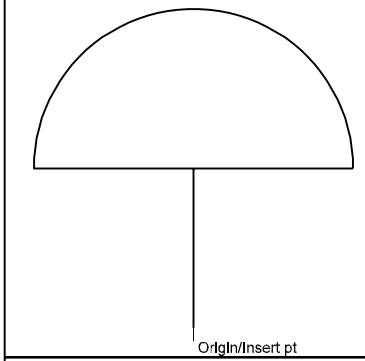


Mechanical: VAHASC
GATE VALVE PLAN
Element type: Symbol

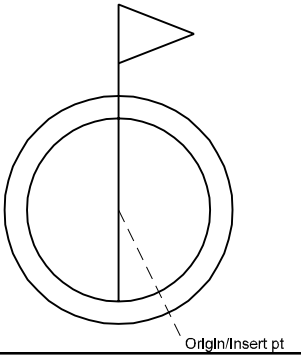


Mechanical: VAHGLS
HOSE GLOBE VALVE
Element type: Symbol

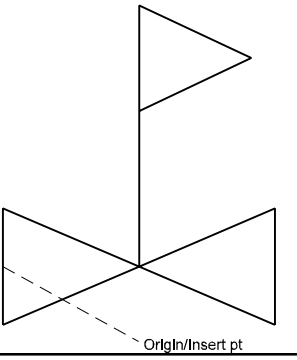
		
Mechanical: VAHGSC HOSE GATE VALVE Element type: Symbol	Mechanical: VALSSC LOCK SHIELD VALVE Element type: Symbol	Mechanical: VAMAGS MAGNETIC STOP VALVE Element type: Symbol
		
Mechanical: VAMNNS VLV ACTUA MAN NONRISINGSTEM Element type: Symbol	Mechanical: VAMOGS MOTOR OPERATD GATE VALVE Element type: Symbol	Mechanical: VAMOLS MOTOR OPERATD GLOBE VALVE Element type: Symbol
		
Mechanical: VAMOSY VLV ACTTOR MAN OUTSTEM Element type: Symbol	Mechanical: VANEED NEEDLE VALVE Element type: Symbol	Mechanical: VAPLUG PLUG VALVE Element type: Symbol



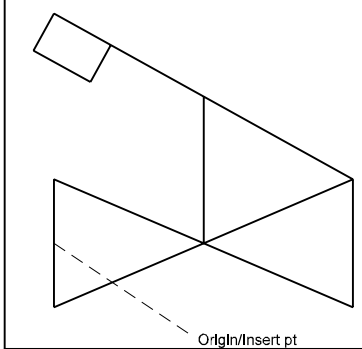
Mechanical: VAPMTD
VALVE ACTUATOR PNEUMOT
Element type: Symbol



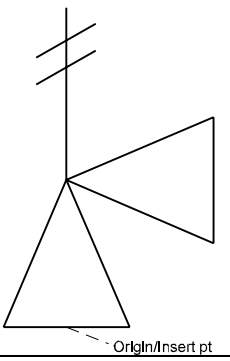
Mechanical: VAPRED
PRESSURE REDUCING VALVE
Element type: Symbol



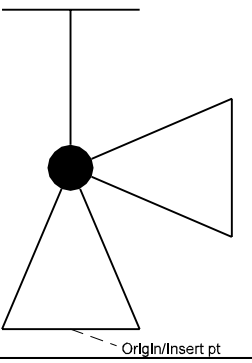
Mechanical: VAPRRD
PRESSURE REDUCING VALVE
Element type: Symbol



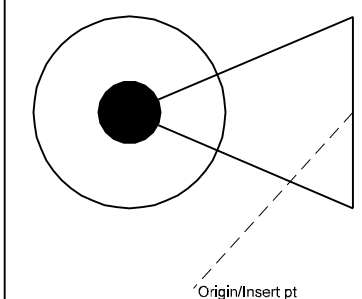
Mechanical: VAQOSC
QUICK OPENING VALVE
Element type: Symbol



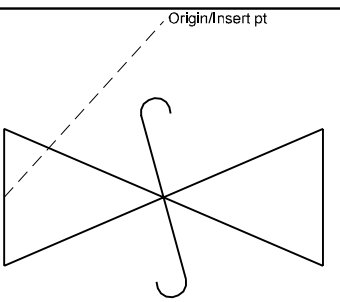
Mechanical: VARELF
RELIEF OR SAFETY VALVE
Element type: Symbol



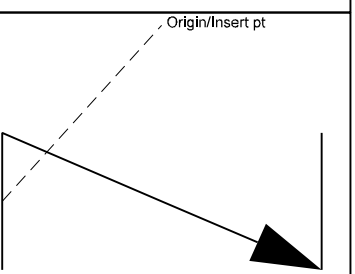
Mechanical: VASCE
ANGLE GLOBE VALVE ELEVATION
Element type: Symbol



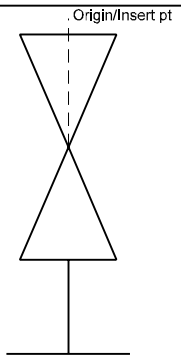
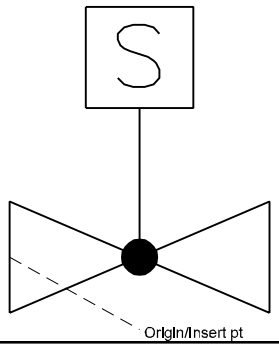
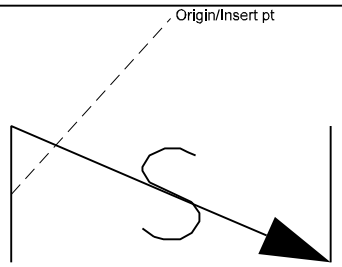
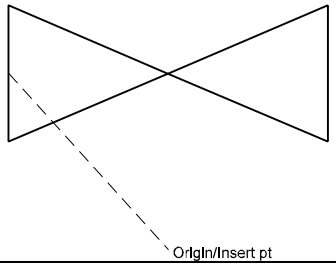
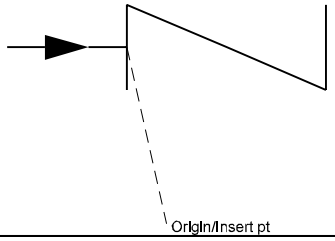
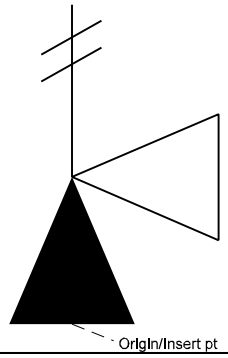
Mechanical: VASCP
ANGLE GLOBE VALVE PLAN
Element type: Symbol



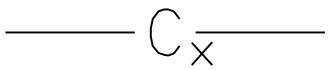
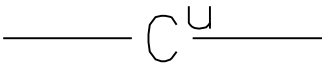
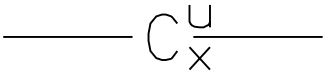
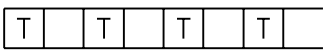
Mechanical: VASFSC
SAFETY VALVE
Element type: Symbol

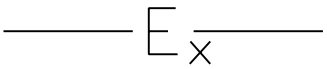
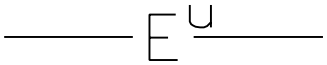
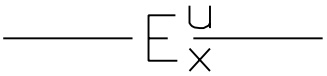
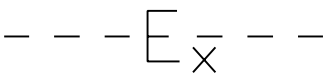
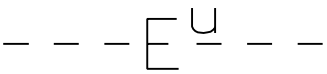
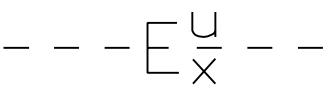
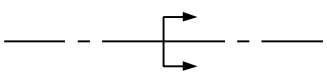
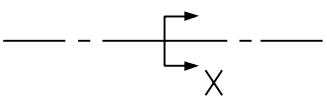


Mechanical: VASGCH
SWING GATE CHECK VALVE
Element type: Symbol

		
Mechanical: VASNAP SNAP ACTION VALVE Element type: Symbol	Mechanical: VASOLN SOLENOID VALVE Element type: Symbol	Mechanical: VASPCH SPRING CHECK VALVE Element type: Symbol
		
Mechanical: VASTSC GATE VALVE Element type: Symbol	Mechanical: VASWSC STRAIGHT WAY CHECK VALVE Element type: Symbol	Mechanical: VATPR TEMP PRESSURE RELIEF VALVE Element type: Symbol

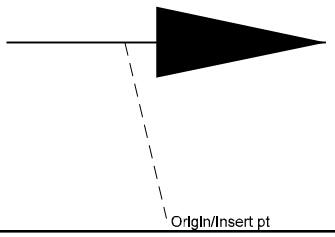
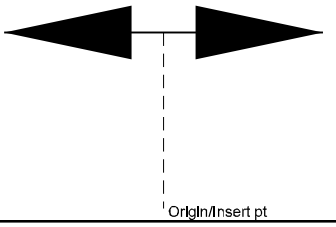
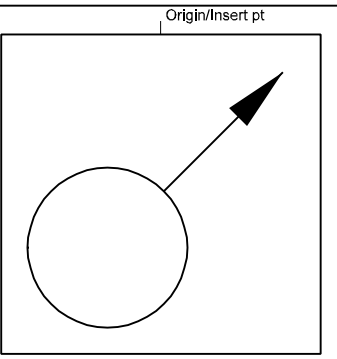
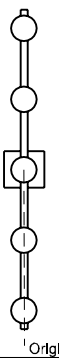
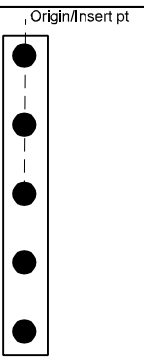
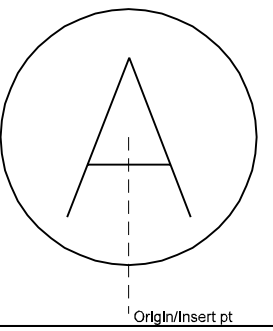
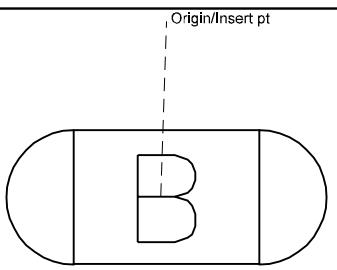
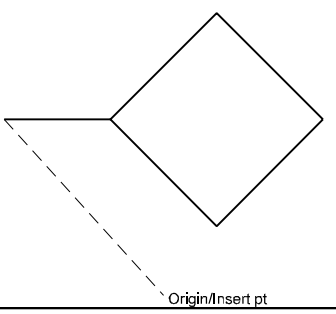
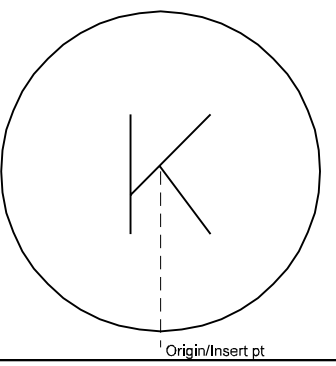
13 Electrical Lines Library

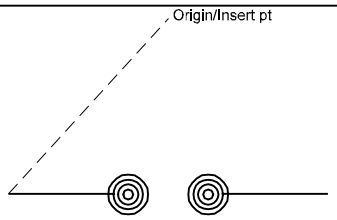
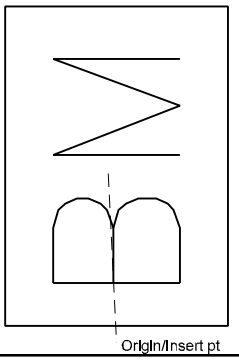
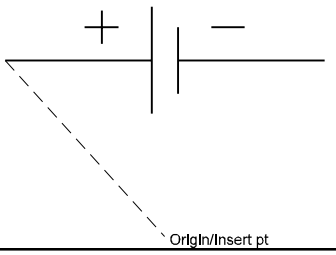
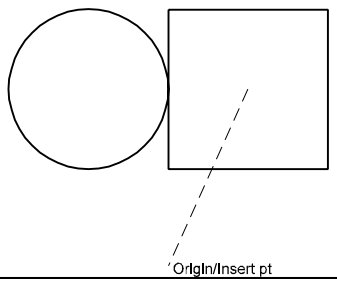
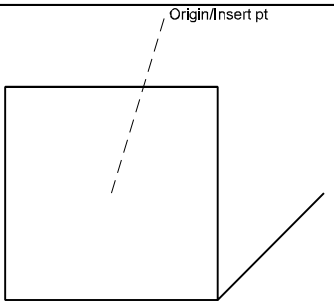
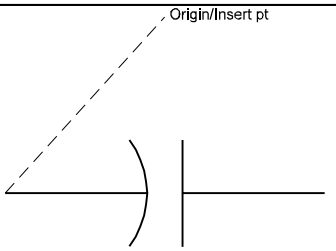
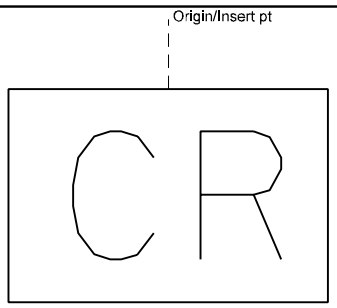
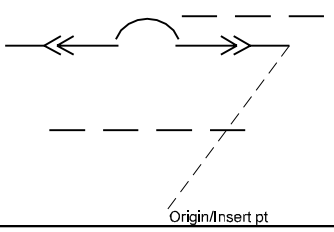
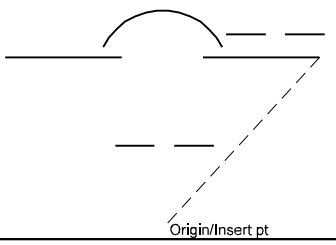
Electrical:BUSWAY BUSWAY Element type: Line	Electrical:CABLTV CABLE TV Element type: Line	Electrical:COMARN NEW COMMUNCATION AERIAL Element type: Line
		
Electrical:COMARX EXIST COMMUNCATION AERIAL Element type: Line	Electrical:COMUGN NEW COMMUNCATION UNDERG Element type: Line	Electrical:COMUGX EXIST COMMUNCATION UNDERG Element type: Line
		
Electrical:CONDFL FLEXIBLE CONDUIT Element type: Line	Electrical:DUCTTR TROLLEY DUCT Element type: Line	Electrical:EPARN NEW ELEC AERIAL PRIMARY Element type: Line

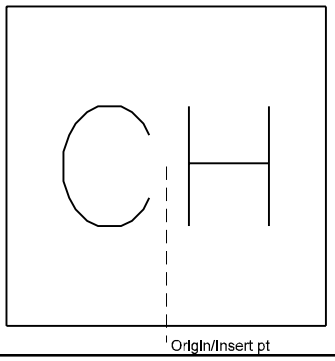
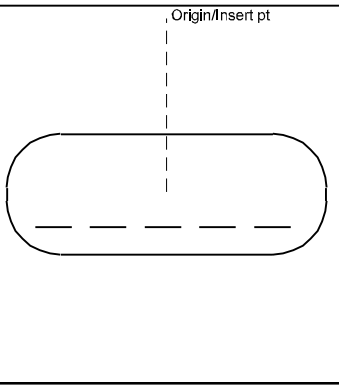
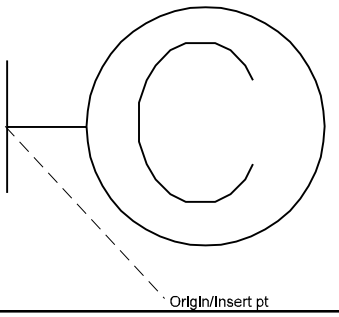
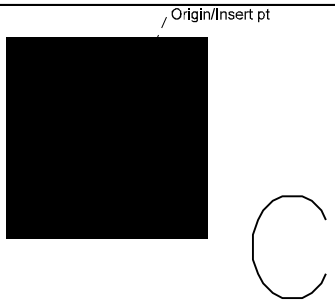
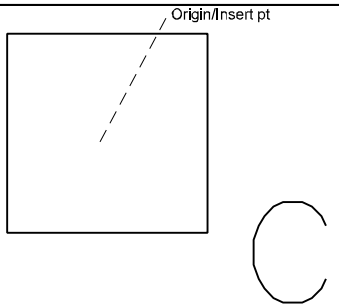
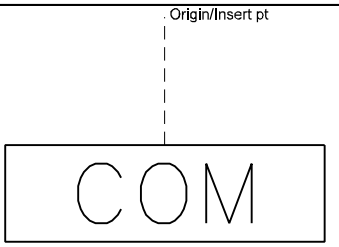
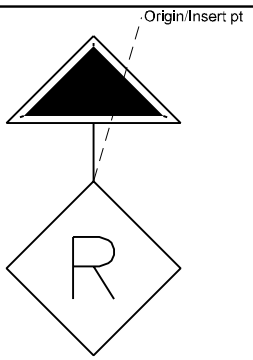
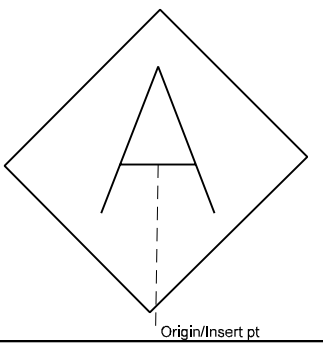
		
Electrical:EPARX EXIST ELEC AERIAL PRIMARY Element type: Line	Electrical:EPUGN NEW ELEC UNDERG PRIMARY Element type: Line	Electrical:EPUGX EXIST ELEC UNDERG PRIMARY Element type: Line
		
Electrical:ESARN NEW ELEC AERIAL SEC Element type: Line	Electrical:ESARX EXIST ELEC AERIAL SEC Element type: Line	Electrical:ESUGN NEW ELEC UNDERG SEC Element type: Line
		
Electrical:ESUGX EXIST ELEC UNDERG SEC Element type: Line	Electrical:EUDUCN NEW UNDERGROUND DUCT BANK Element type: Line	Electrical:EUDUCX EXIST UNDERGROUND DUCT BANK Element type: Line

F O	C C C C	W W W W
Electrical:FIBOPT FIBER OPTICS LINE Element type: Line	Electrical:LADDER CABLE LADDER Element type: Line	Electrical:WIREWY WIREWAY Element type: Line

13 Electrical Symbols Library

		
Electrical:1DIR DIRECTION ARROW Element type: Symbol	Electrical:2DIR DOUBLE DIRECTION ARROW Element type: Symbol	Electrical:ACCBIO BIOMETRIC ACCESS CONTROL Element type: Symbol
		
Electrical:ACLLEL APPROACH LIGHTBAR_ELEVATED Element type: Symbol	Electrical:ACLLSF APPROACH LIGHTBAR_SEMIFLUSH Element type: Symbol	Electrical:AERROD AERIAL ROD Element type: Symbol
		
Electrical:AFBCN AIRFIELD BEACON Element type: Symbol	Electrical:ANNUN ANNUNCIATOR Element type: Symbol	Electrical:ANNUNT LOCAL CNTRL ANNUNCIATON UNT Element type: Symbol

		
Electrical:ARREST LIGHTNING ARRESTOR Element type: Symbol	Electrical:BARMKR BARRIER MARKER Element type: Symbol	Electrical:BATTRY BATTERY Element type: Symbol
		
Electrical:BELL BELL Element type: Symbol	Electrical:BUZZER BUZZER Element type: Symbol	Electrical:CAPCTR CAPACITOR Element type: Symbol
		
Electrical:CARDRD CARD READER Element type: Symbol	Electrical:CBDOUT DRAWOUT CIRCUIT BREAKER Element type: Symbol	Electrical:CBMCAS MOLDED CASE CKT BREAKER Element type: Symbol

		
Electrical:CHIME CHIME Element type: Symbol	Electrical:CKTID CIRCUIT ID SYMBOL Element type: Symbol	Electrical:CLOCKW CLOCK OUTLET WALL MOUNTED Element type: Symbol
		
Electrical:CMHLN COMMO MANHOLE_NEW Element type: Symbol	Electrical:CMHLX COMMO MANHOLE_EXIST Element type: Symbol	Electrical:CMPANL COMMUNICATION PANEL Element type: Symbol
		
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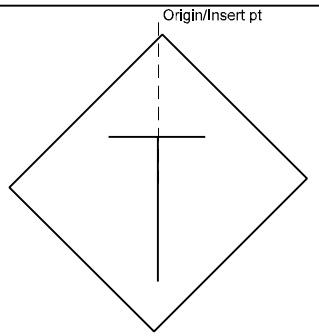
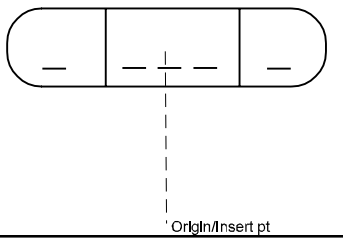
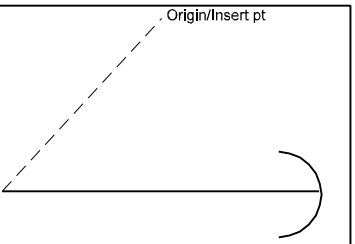
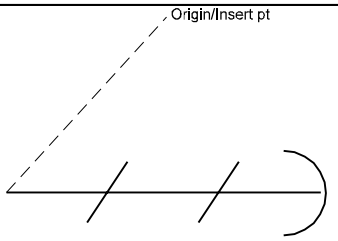
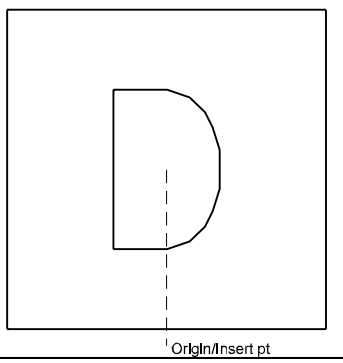
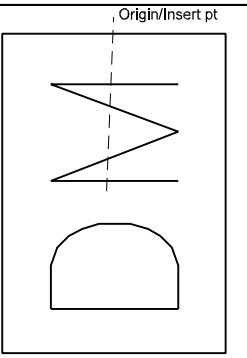
		
Electrical:CPTEST CATHODIC PROTECT TEST STATN Element type: Symbol	Electrical:DBID DUCTBANK ID SYMBOL Element type: Symbol	Electrical:DGUYN DOWNGUY_NEW Element type: Symbol
		
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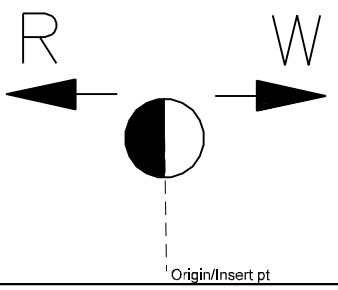
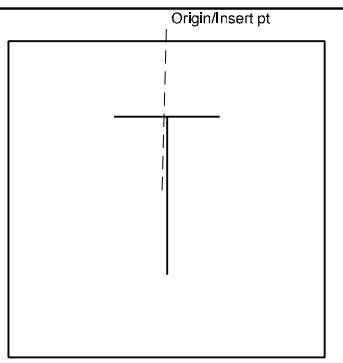
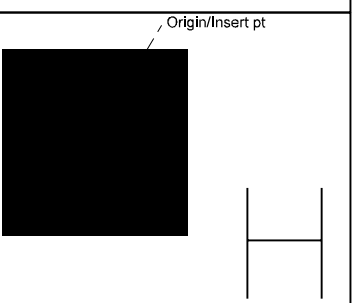
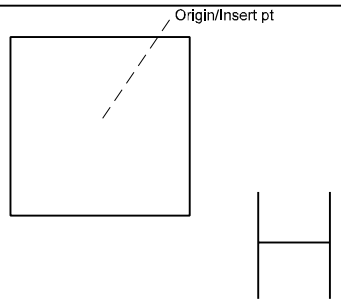
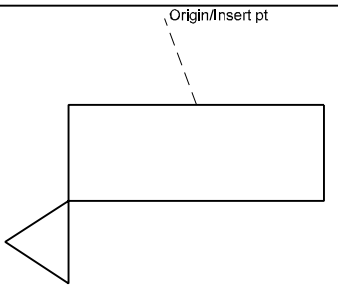
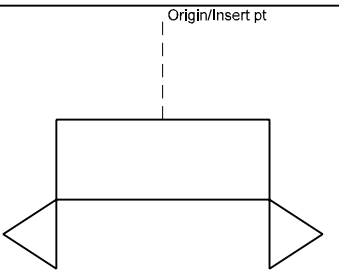
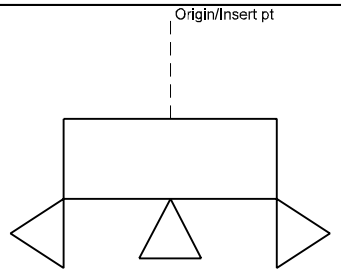
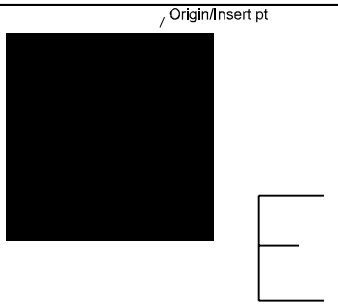
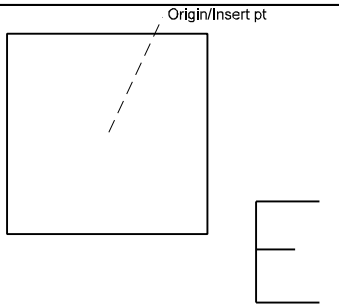
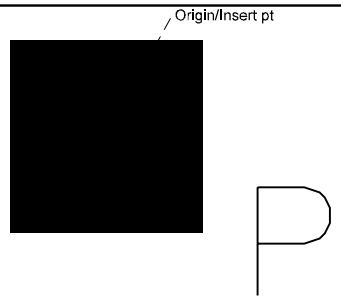
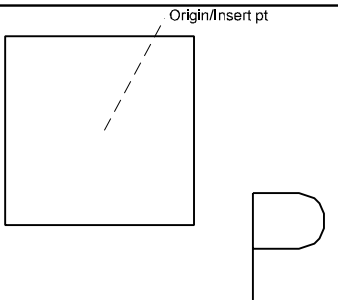
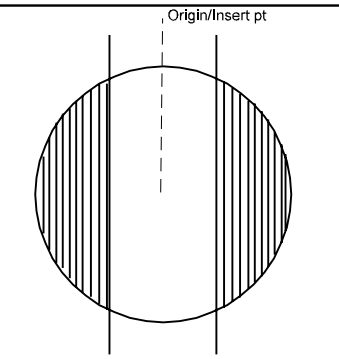
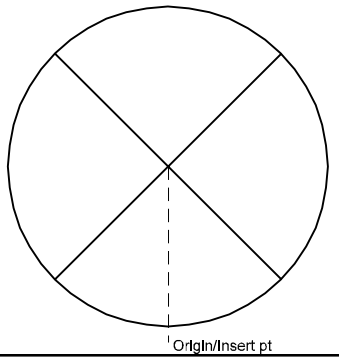
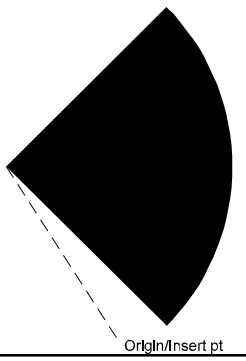
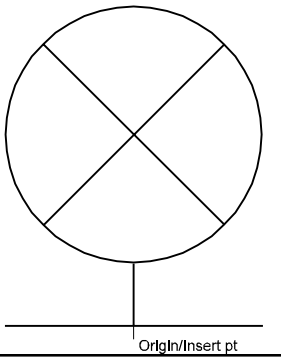
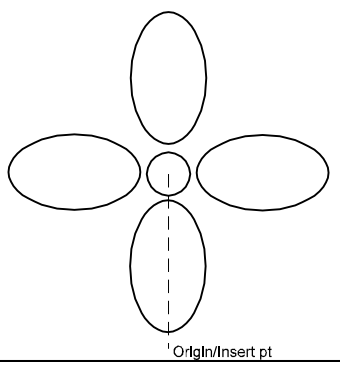
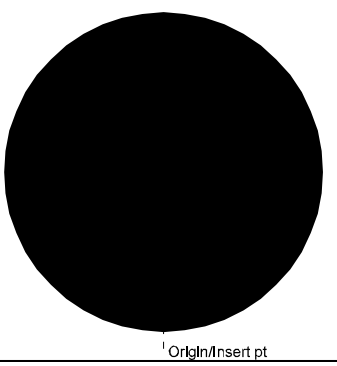
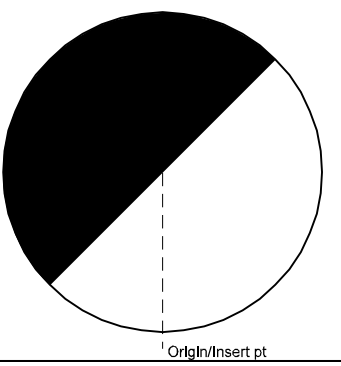
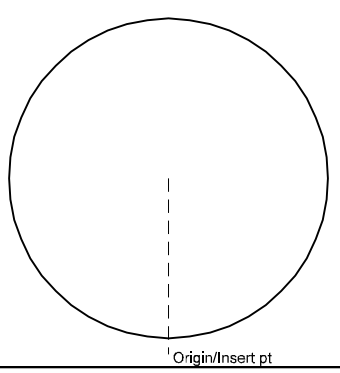
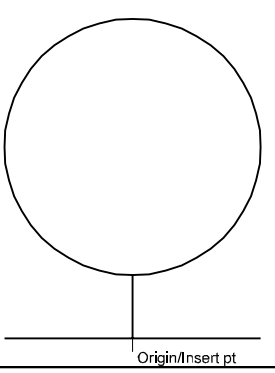
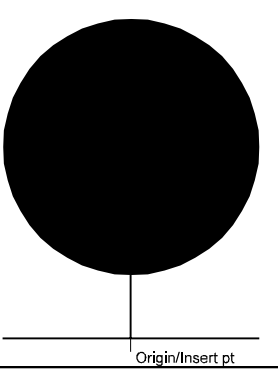
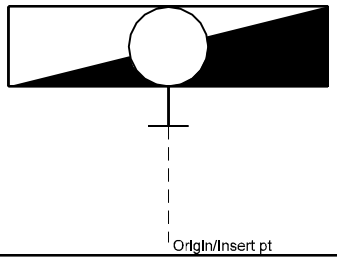
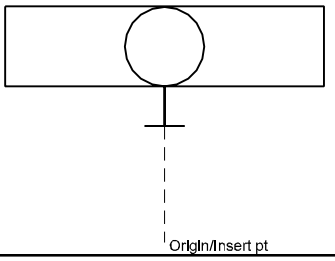
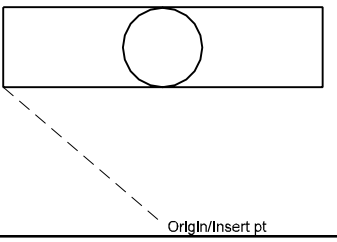
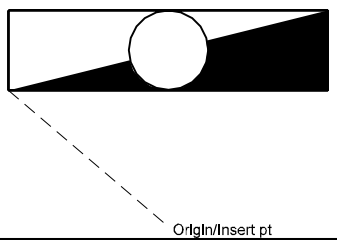
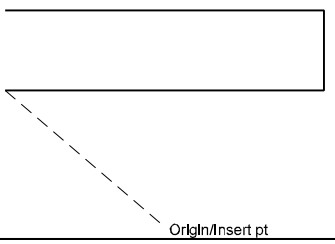
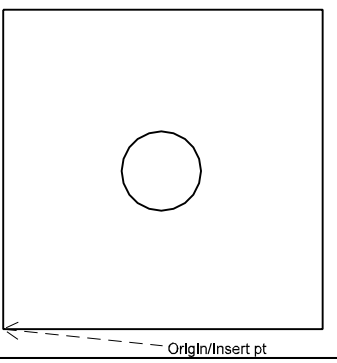
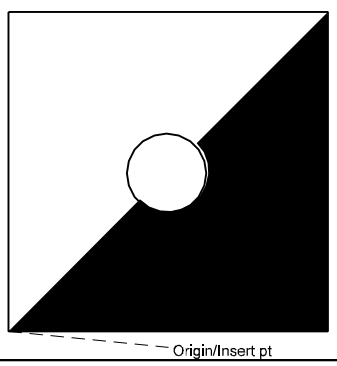
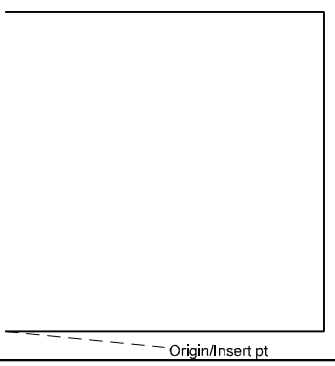
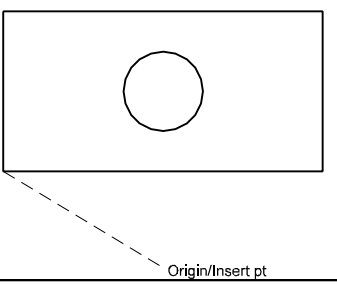
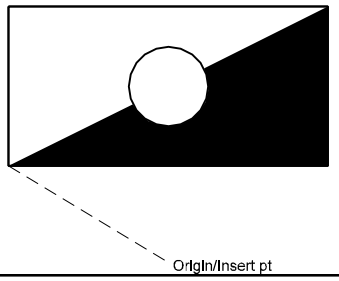
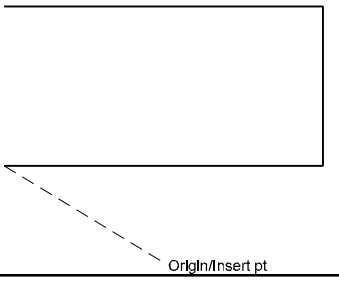
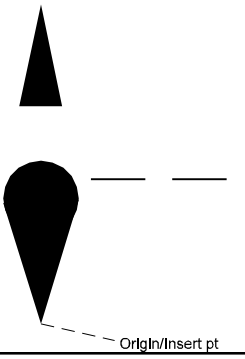
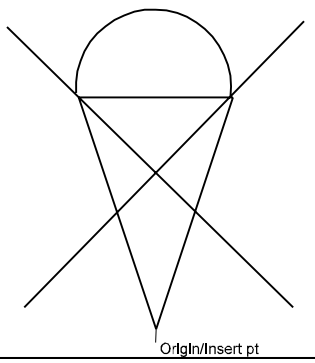
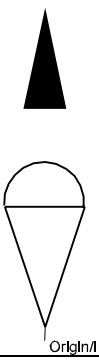
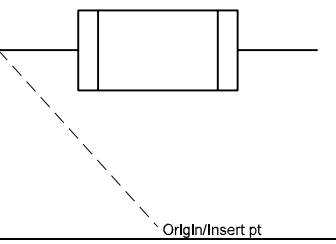
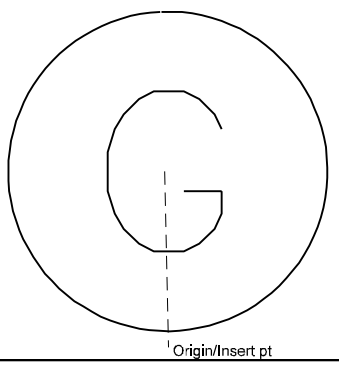
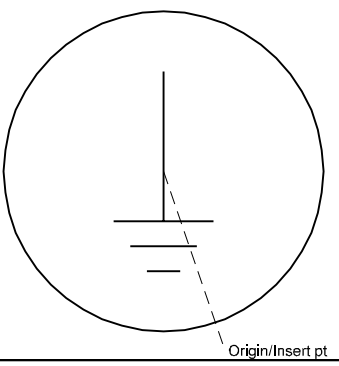
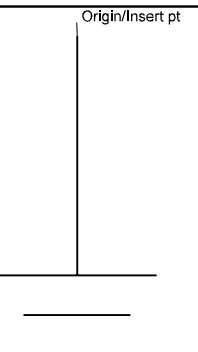
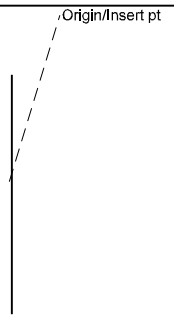
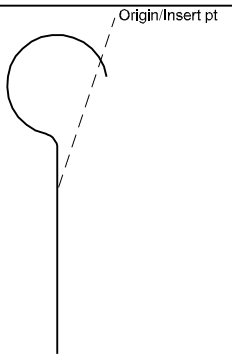
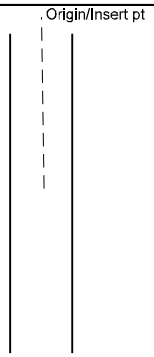
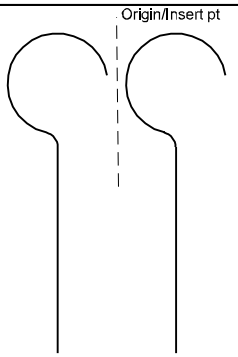
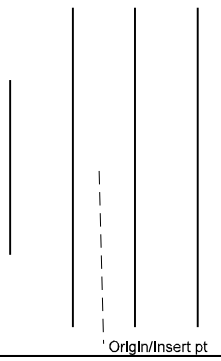
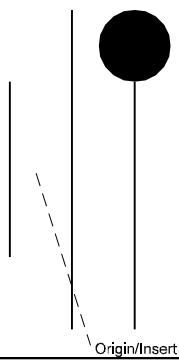
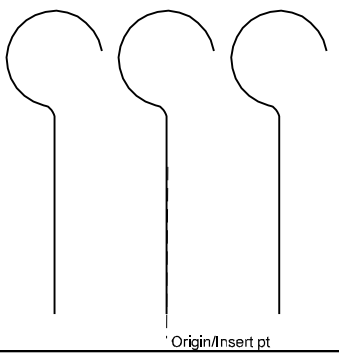
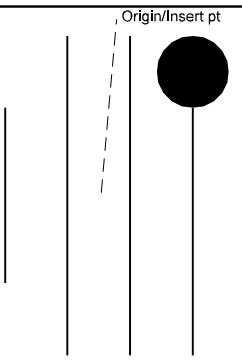
		
Electrical:DTHL DISPLACE THRESHOLD LIGHT Element type: Symbol	Electrical:DXFMR DRY TYPE TRANSFORMER Element type: Symbol	Electrical:EHHLN ELEC HANDHOLE_NEW Element type: Symbol

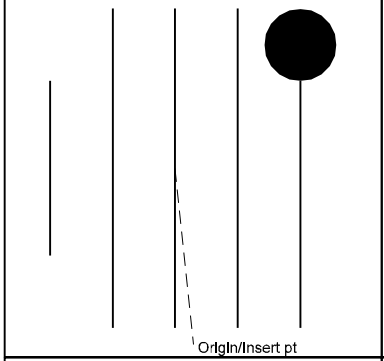
		
Electrical:EHHLX ELEC HANDHOLE_EXIST Element type: Symbol	Electrical:ELBP1L 1LAMP EMRGNCY LGHTBTTRYPWR Element type: Symbol	Electrical:ELBP2L 2LAMP EMRGNCY LGHTBTTRYPWR Element type: Symbol
		
Electrical:ELBP3L 3LAMP EMRGNCY LGHTBTTRYPWR Element type: Symbol	Electrical:EMHLN ELEC MANHOLE_NEW Element type: Symbol	Electrical:EMHLX ELEC MANHOLE_EXIST Element type: Symbol
		
Electrical:EPBXN ELEC PULLBOX_NEW Element type: Symbol	Electrical:EPBXX ELEC PULLBOX_EXIST Element type: Symbol	Electrical:ERECPT EMERGENCY RECEPTACLE Element type: Symbol

		
Electrical:EXITCM CEILING MNTD EXITSIGN LIGHT Element type: Symbol	Electrical:EXITLF EXIT SIGN LIGHTED FACE Element type: Symbol	Electrical:EXITWM WALL MOUNTD EXIT SIGN LIGHT Element type: Symbol
		
Electrical:FAN CEILING FAN Element type: Symbol	Electrical:FIXSPB PENDANT BATTERY FIXTURE Element type: Symbol	Electrical:FIXSPQ PENDANT QUARTZ RESTRIKE Element type: Symbol
		
Electrical:FIXSPR PENDANT FIXTURE Element type: Symbol	Electrical:FIXWM WALL MOUNTED FIXTURE Element type: Symbol	Electrical:FIXWMB WALL MOUNTED BATTRY FIXTURE Element type: Symbol

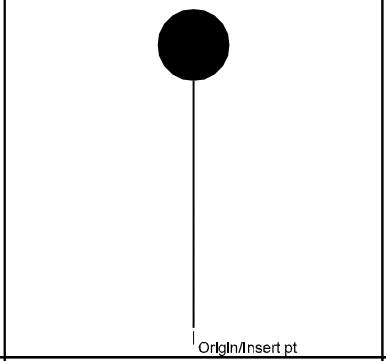
		
Electrical:FL14WB 1X4 WALL MNT FIXT W BATTERY Element type: Symbol	Electrical:FL14WM 1X4 WALL MNT FIXTURE Element type: Symbol	Electrical:FL1X4 1X4 LIGHT FIXTURE Element type: Symbol
		
Electrical:FL1X4B 1X4 LIGHT FIXTURE W BATTERY Element type: Symbol	Electrical:FL1X4C 1X4 LIGHT CONTINUOUS Element type: Symbol	Electrical:FL2X2 2X2 LIGHT FIXTURE Element type: Symbol
		
Electrical:FL2X2B 2X2 LIGHT FIXTURE W BATTERY Element type: Symbol	Electrical:FL2X2C 2X2 LIGHT CONTINUOUS Element type: Symbol	Electrical:FL2X4 2X4 LIGHT FIXTURE Element type: Symbol

		
Electrical:FL2X4B 2X4 LIGHT FIXTURE W BATTERY Element type: Symbol	Electrical:FL2X4C 2X4 LIGHT CONTINUOUS Element type: Symbol	Electrical:FLTN FLOODLIGHT_NEW Element type: Symbol
		
Electrical:FLTR FLOODLIGHT_REMOVE Element type: Symbol	Electrical:FLTX FLOODLLIGHT_EXISTING Element type: Symbol	Electrical:FUSRAT FUSE WITH RATING Element type: Symbol
		
Electrical:GENRTR GENERATOR Element type: Symbol	Electrical:GRDROD GROUNDING ROD Element type: Symbol	Electrical:GROUND EARTH GROUND Element type: Symbol

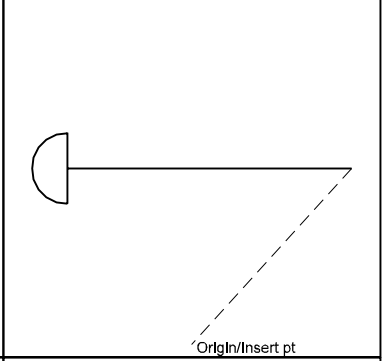
		
Electrical:HAS1H 1 HOT LEG Element type: Symbol	Electrical:HAS1N 1 NEUTRAL LEG Element type: Symbol	Electrical:HAS1S 1 SWITCH LEG Element type: Symbol
		
Electrical:HAS2H 2 HOT LEGS Element type: Symbol	Electrical:HAS2S 2 SWITCH LEGS Element type: Symbol	Electrical:HAS3HN 3 HOT 1 NEUT LEGS Element type: Symbol
		
Electrical:HAS3MK HOT NEUTRAL GROUND Element type: Symbol	Electrical:HAS3S 3 SWITCH LEG Element type: Symbol	Electrical:HAS4MK 2 HOT NEUTRAL GROUND Element type: Symbol



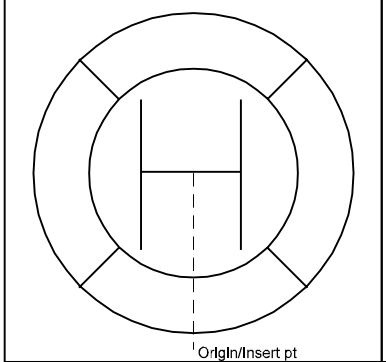
Electrical:HAS5MK
3 HOT NEUTRAL GROUND
Element type: Symbol



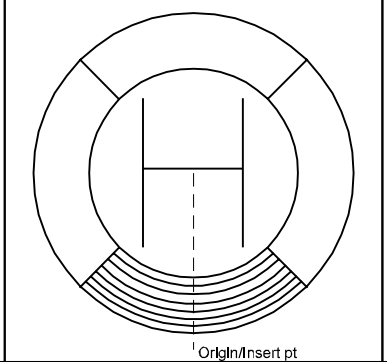
Electrical:HASGND
1 GROUND LEG
Element type: Symbol



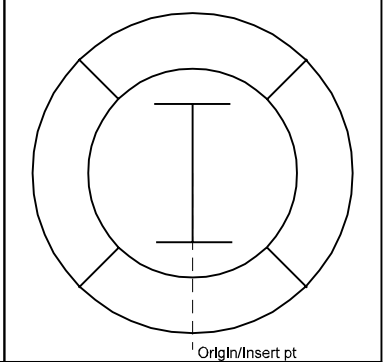
Electrical:HEDASW
AERIAL SERVICE WEATHER HEAD
Element type: Symbol



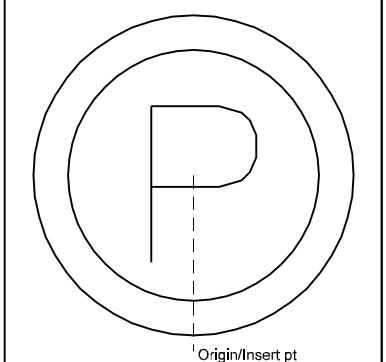
Electrical:HLL
HOVERLANE
Element type: Symbol



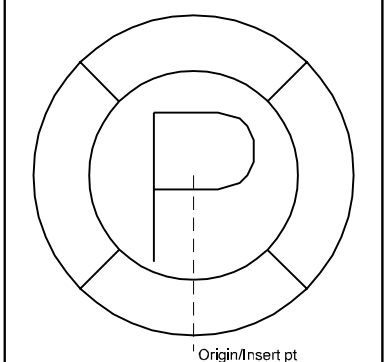
Electrical:HLLL
HOVERLANE LIMIT LIGHT
Element type: Symbol



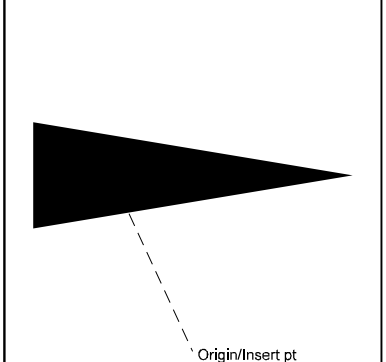
Electrical:HPIL
HELIPAD INSET LIGHT
Element type: Symbol



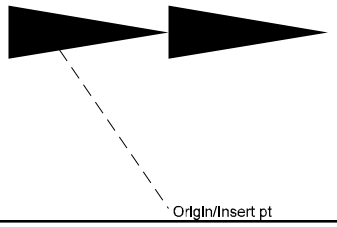
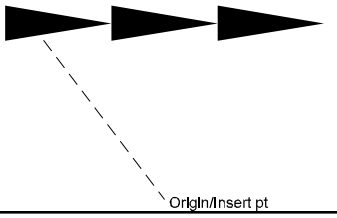
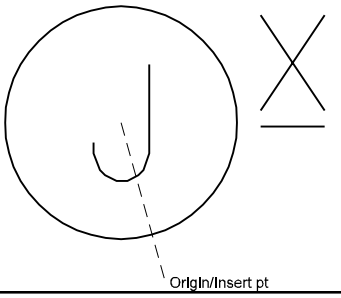
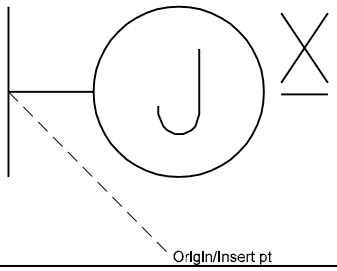
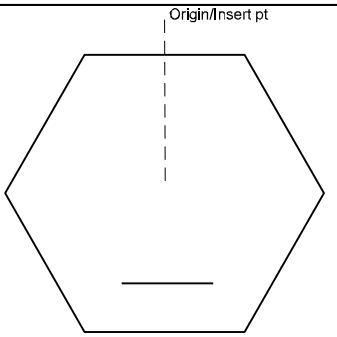
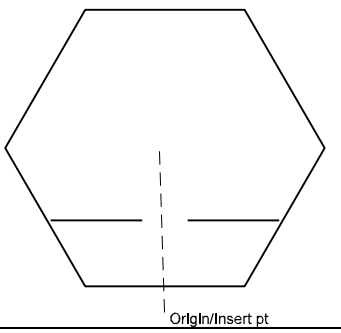
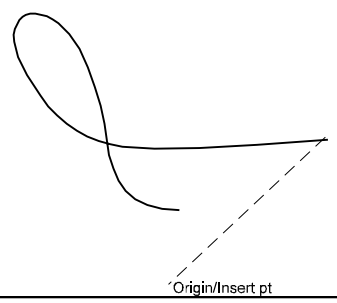
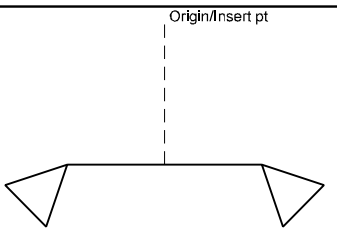
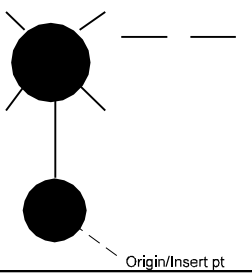
Electrical:HPPLEL
HELIPAD PER LIGHT_ELEVATED
Element type: Symbol

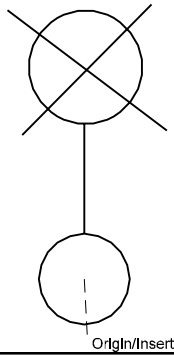
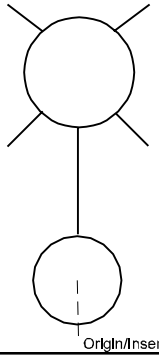
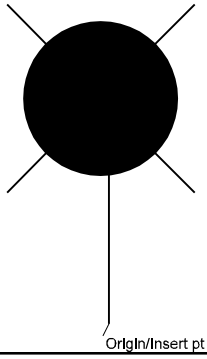
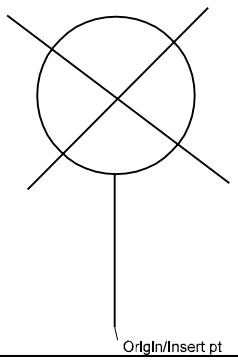
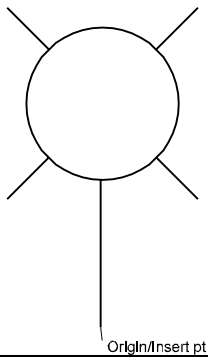
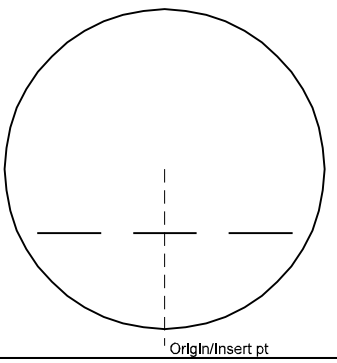


Electrical:HPPLSF
HELIPAD PERLIGHT_SEMIFLUSH
Element type: Symbol



Electrical:HRUN1
HOME RUN 1
Element type: Symbol

		
Electrical:HRUN2 HOME RUN 2 Element type: Symbol	Electrical:HRUN3 HOME RUN 3 Element type: Symbol	Electrical:JNBX EXTERIOR UTIL JUNCTION BOX Element type: Symbol
		
Electrical:JNBXWM JUNCTION BOX WALL MT Element type: Symbol	Electrical:KNR KEYED NOTE REFERENCE Element type: Symbol	Electrical:KNRM KEYED NOT MULTIPLE Element type: Symbol
		
Electrical:LEADER LEADER LINE Element type: Symbol	Electrical:LITEBR EMRGNCYBTTRY PWRLGHTREMOT Element type: Symbol	Electrical:LTPLN LIGHT POLE_NEW Element type: Symbol

		
Electrical:LTPLR LIGHT POLE_REMOVE Element type: Symbol	Electrical:LTPLX LIGHT POLE_EXISTING Element type: Symbol	Electrical:LTSTRN STREET LITE BRACKET_NEW Element type: Symbol
		
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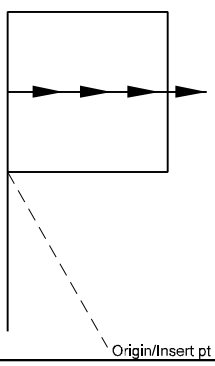
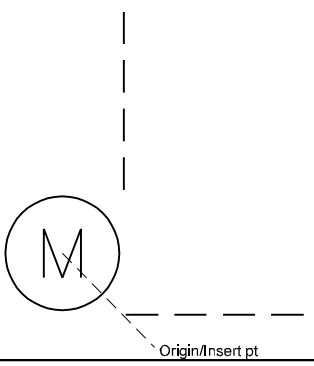
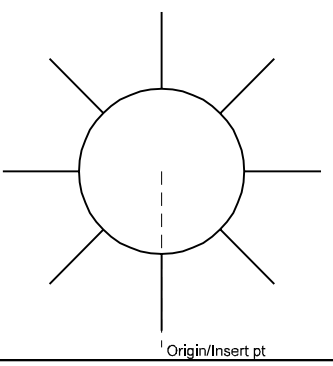
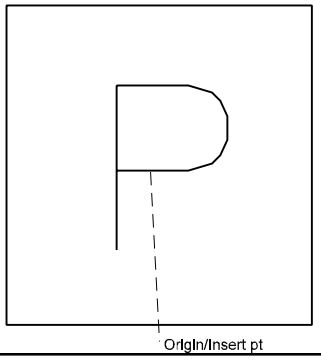
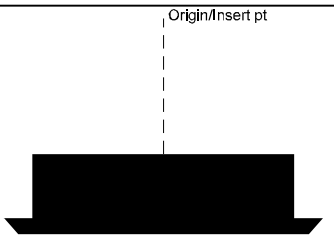
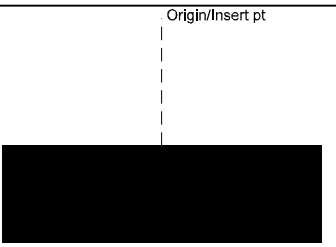
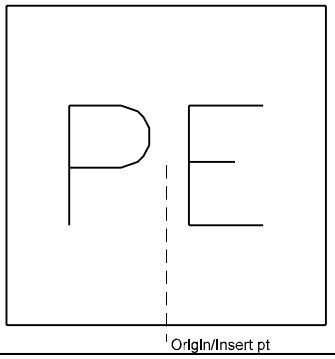
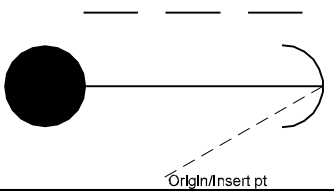
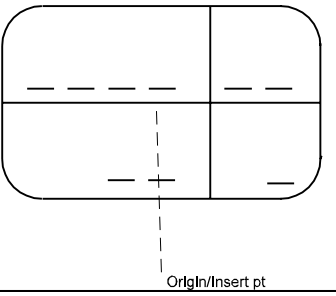
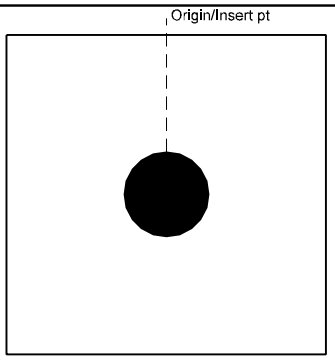
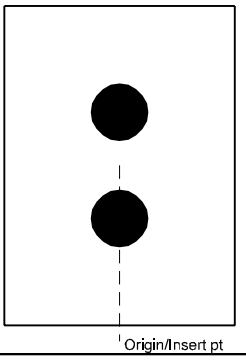
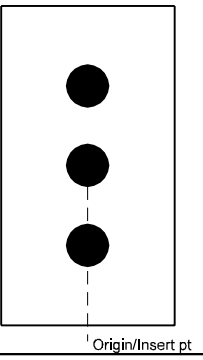
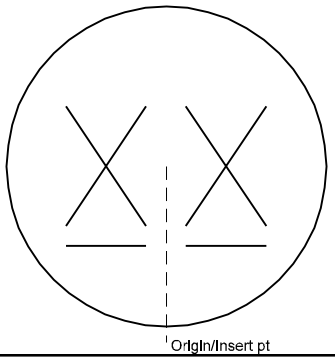
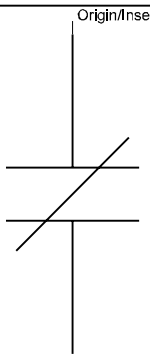
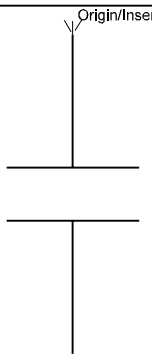
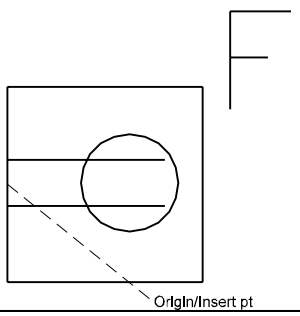
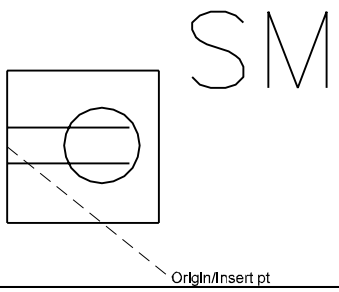
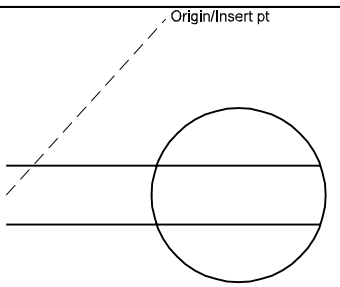
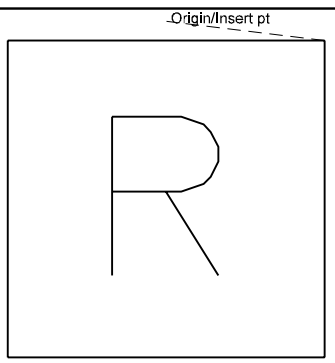
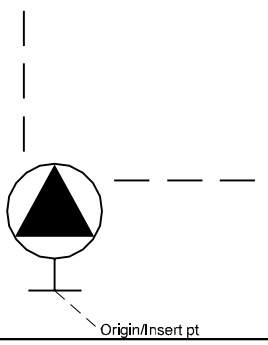
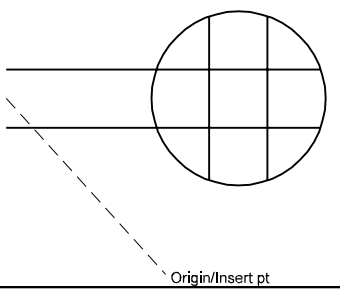
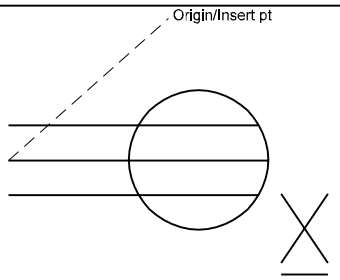
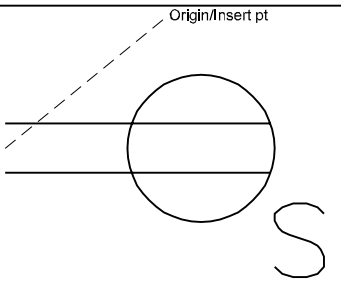
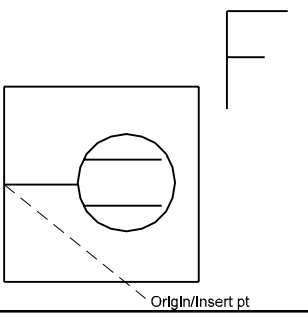
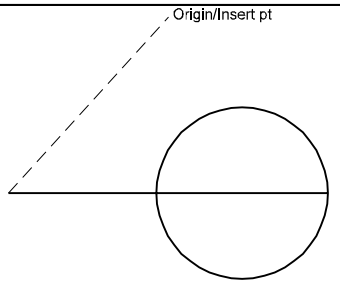
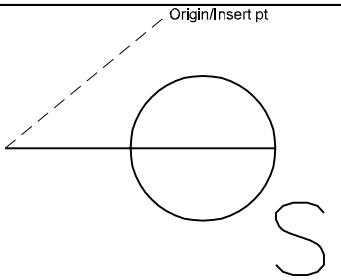
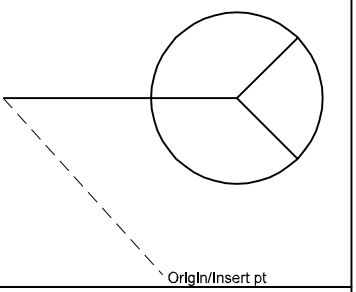
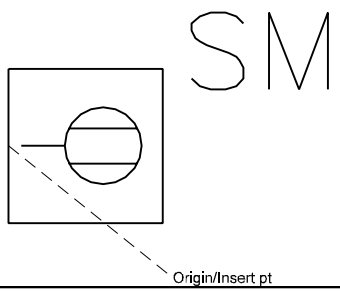
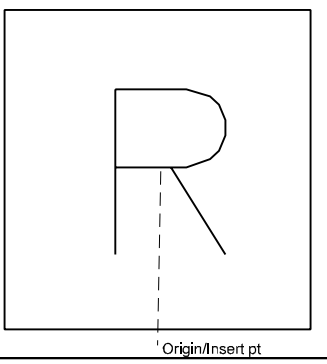
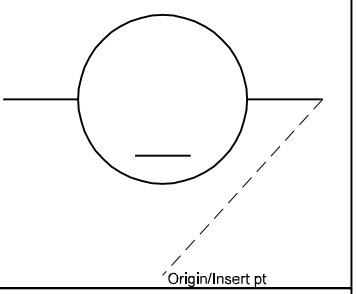
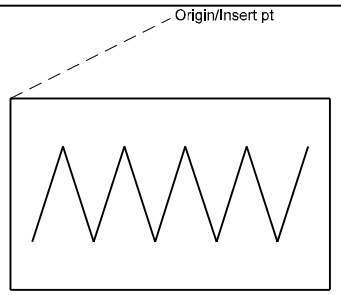
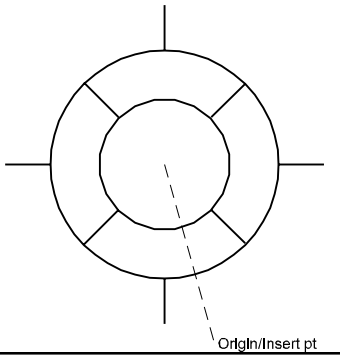
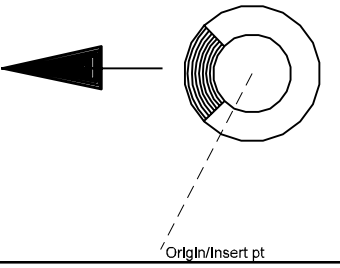
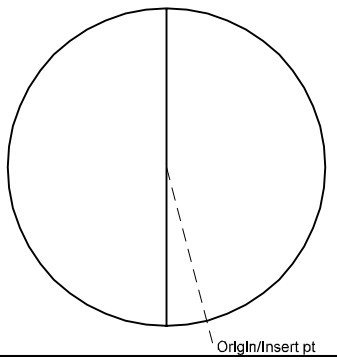
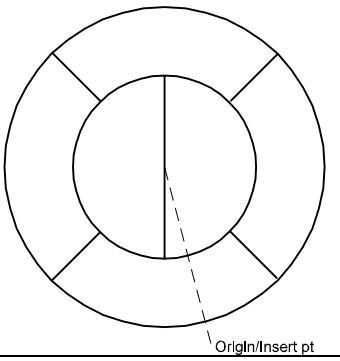
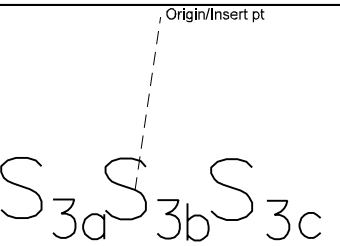
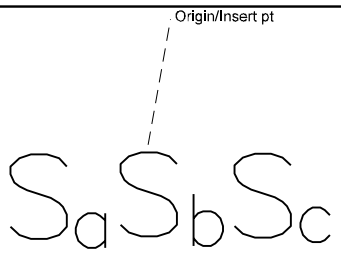
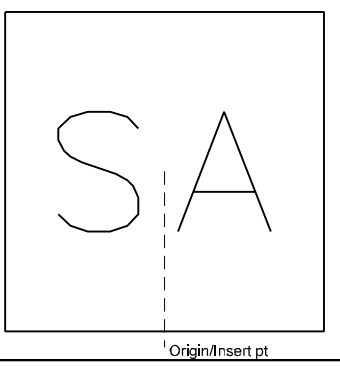
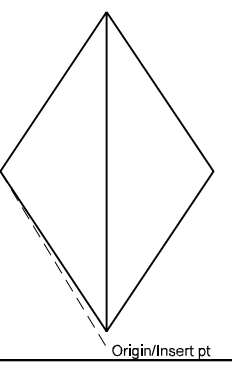
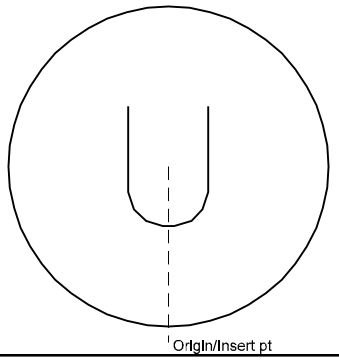
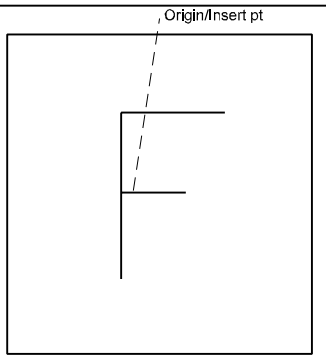
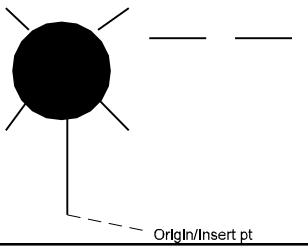
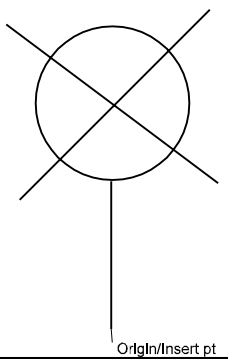
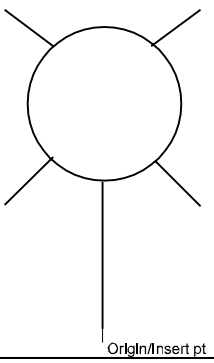
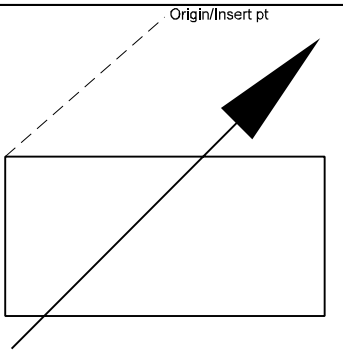
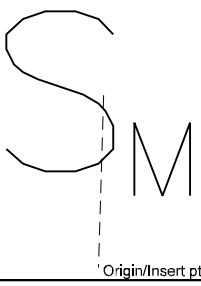
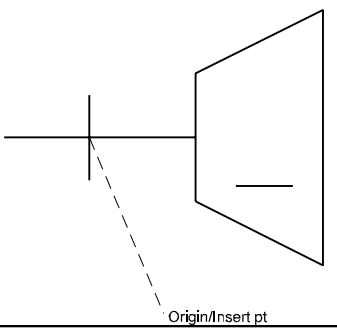
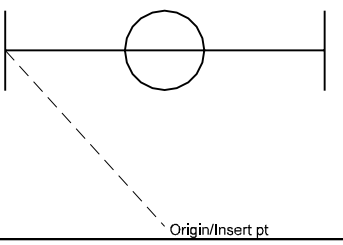
		
Electrical:MICROW OUTDOOR MICROWAVE XMIT UNT Element type: Symbol	Electrical:MOTRHP MOTOR HP Element type: Symbol	Electrical:OBSTRL OBSTRUCTION LIGHT Element type: Symbol

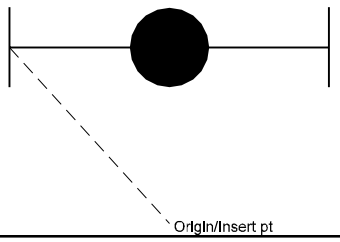
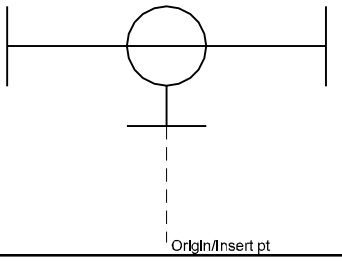
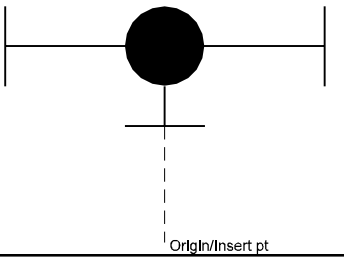
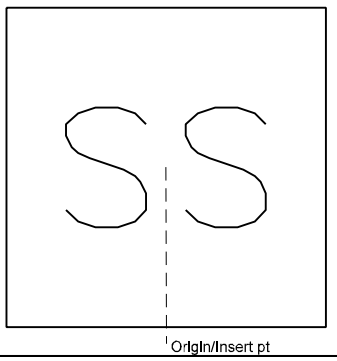
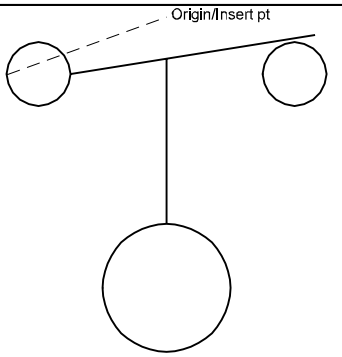
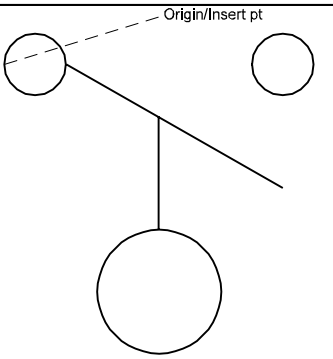
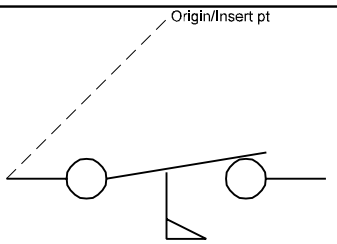
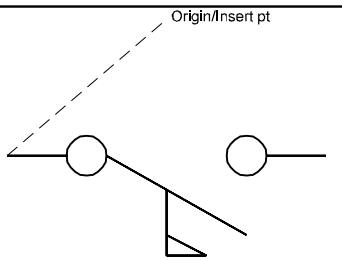
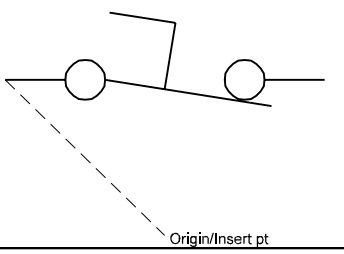
		
Electrical:PAPI PAPI LIGHT UNIT Element type: Symbol	Electrical:PBFMC FLUSH MNTD PANELBRD CABINET Element type: Symbol	Electrical:PBSMC SURFACE MNTD PANELBRD CAB Element type: Symbol
		
Electrical:PHOTO PHOTOELECTRIC RELAY Element type: Symbol	Electrical:POLEAR AERIAL POLE W GUYING Element type: Symbol	Electrical:POLEID POLE IDENT. SYMBOL Element type: Symbol
		
Electrical:PSHST1 ONE PUSHBUTTON STATION Element type: Symbol	Electrical:PSHST2 TWO PUSHBUTTON STATION Element type: Symbol	Electrical:PSHST3 THREE PUSHBUTTON STATION Element type: Symbol

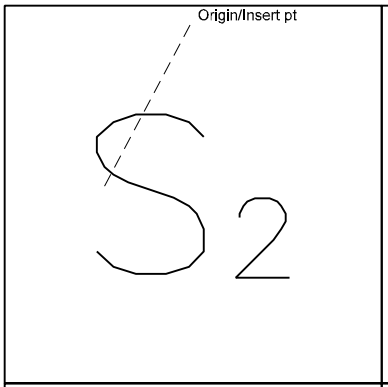
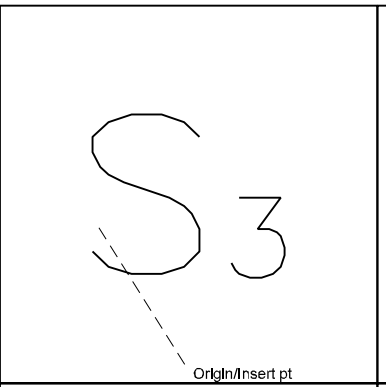
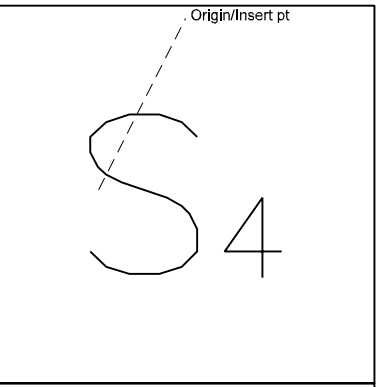
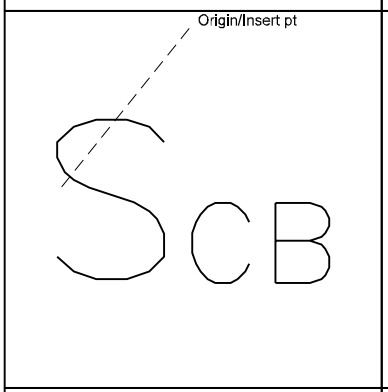
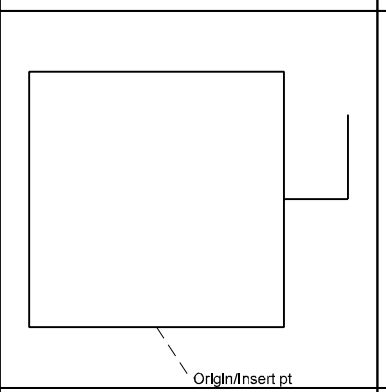
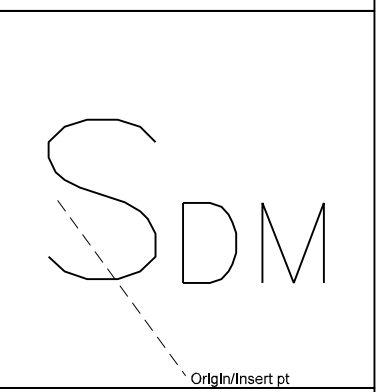
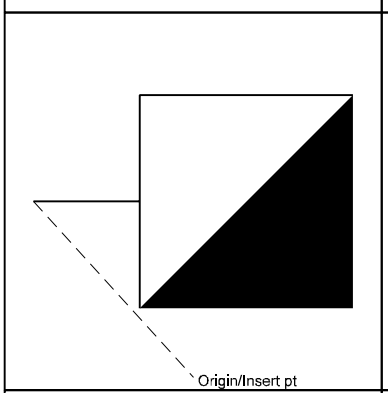
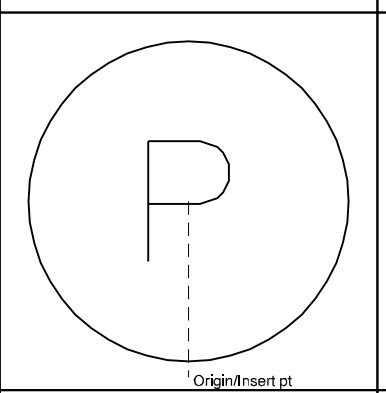
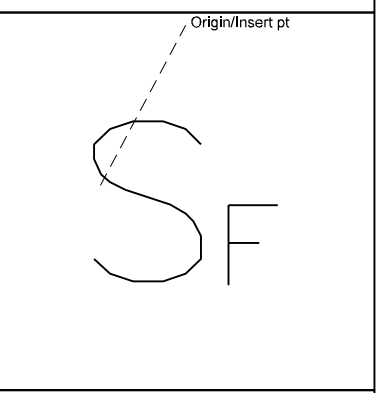
		
Electrical:PWRDVC POWER SYSTEM DEVICE ANSI Element type: Symbol	Electrical:RCNC NORMALLY CLSD RELAY CONTACT Element type: Symbol	Electrical:RCNO NORMALLY OPEN RELAY CONTACT Element type: Symbol
		
Electrical:RECDFM DOUBLEFLUSHMOUNTFLOOROUTLET Element type: Symbol	Electrical:RECDSM DOUBLESURFMOUNTFLOOROUTLET Element type: Symbol	Electrical:RECDUP DUPLEX RECEPTACLE Element type: Symbol
		
Electrical:RECLOS RECLOSER AERIAL AUTOMATIC Element type: Symbol	Electrical:RECPT2 SPECIAL RECEPTACLE Element type: Symbol	Electrical:RECQUA QUADRAPLEX RECEPTACLE Element type: Symbol

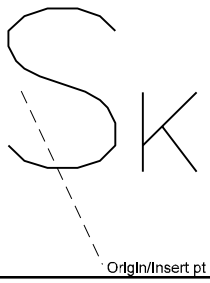
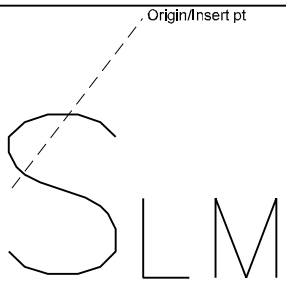
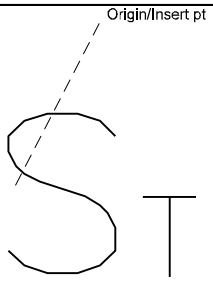
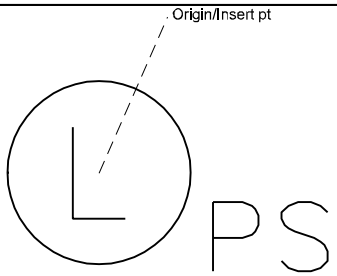
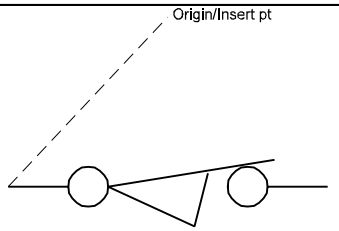
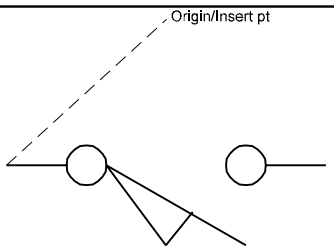
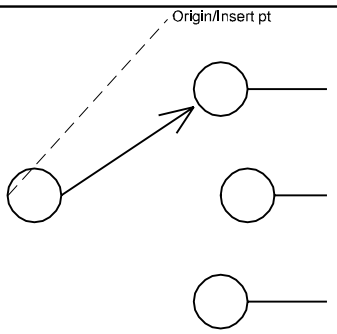
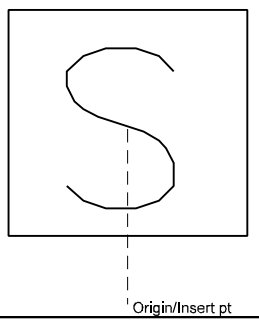
		
Electrical:RECRAN RECEPTACLE RANGE Element type: Symbol	Electrical:RECSDP SWITCHED DUPLEX RECEPTACLE Element type: Symbol	Electrical:RECSFM SINGLE FLUSH MOUNT FLR OUTL Element type: Symbol
		
Electrical:RECSIN SINGLE RECEPTACLE Element type: Symbol	Electrical:RECSNS SNGL RECEPTACLE WITH SWITCH Element type: Symbol	Electrical:RECSPR SPECIAL PURPOSE RECEPTACLE Element type: Symbol
		
Electrical:RECSSM SINGLESURFMOUNTFLOOROUTLET Element type: Symbol	Electrical:REIL REIL LIGHT UNIT Element type: Symbol	Electrical:RELYOP RELAY OP COIL Element type: Symbol

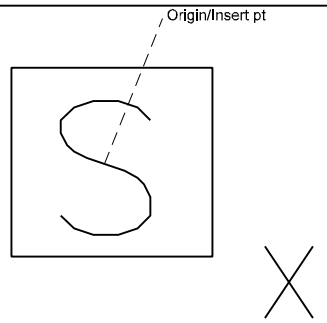
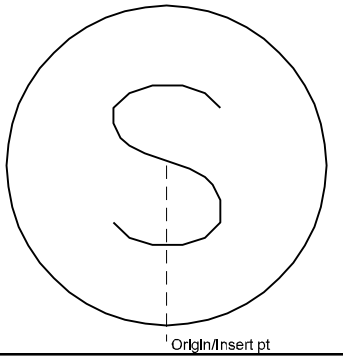
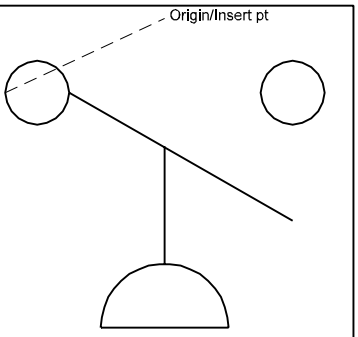
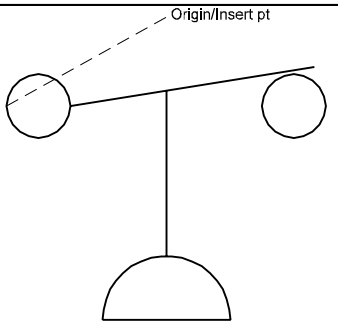
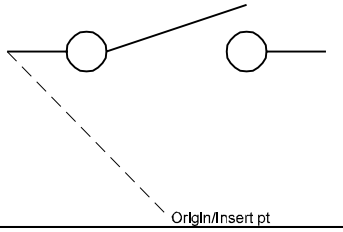
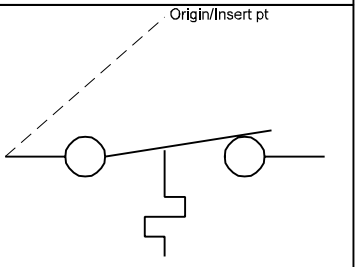
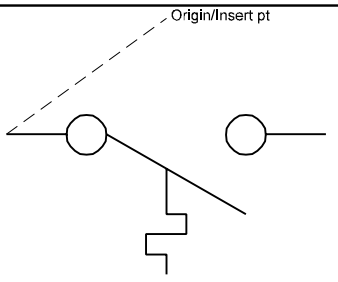
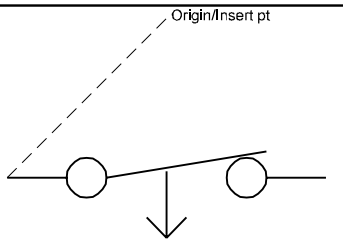
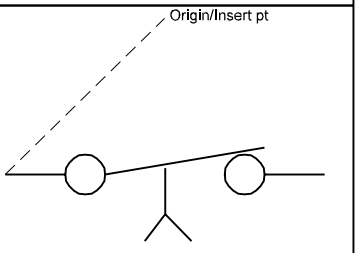
		
Electrical:RESHTR ELECTRIC RESISTANCE HEATER Element type: Symbol	Electrical:RWCLL RW CENTERLINE LIGHT Element type: Symbol	Electrical:RWEL RW END LIGHT Element type: Symbol
		
Electrical:RWLEL RW EDGE LIGHT_ELEVATED Element type: Symbol	Electrical:RWLSF RW EDGE LIGHT_SEMIFLUSH Element type: Symbol	Electrical:S3ABC 3 THREE WAY SWITCHES Element type: Symbol
		
Electrical:SABC THREE SINGLE SWITCHES Element type: Symbol	Electrical:SECTAA SECTIONALIZER AERIAL AUTO Element type: Symbol	Electrical:SENGV GENERIC VOLUMETRIC SENSOR Element type: Symbol

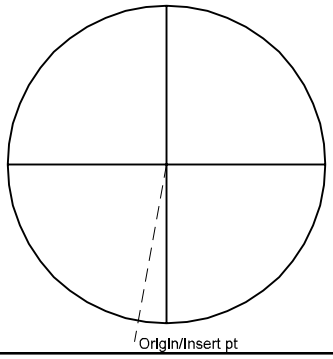
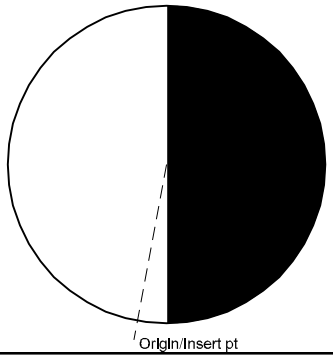
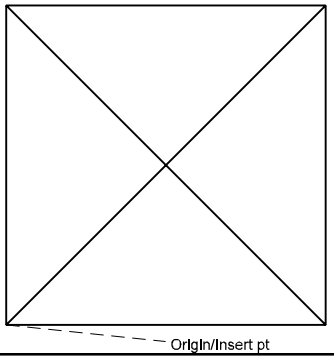
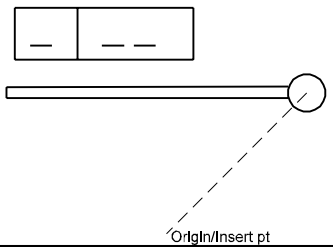
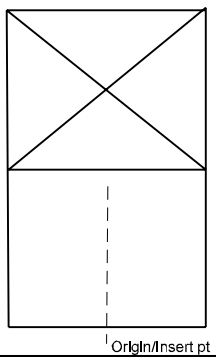
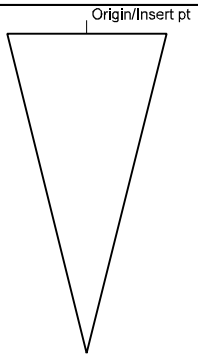
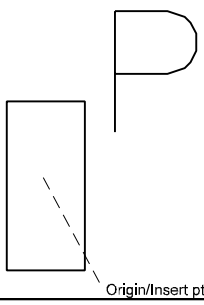
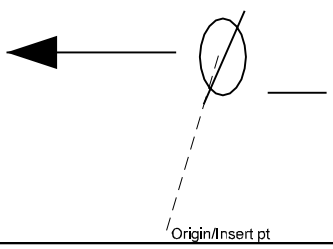
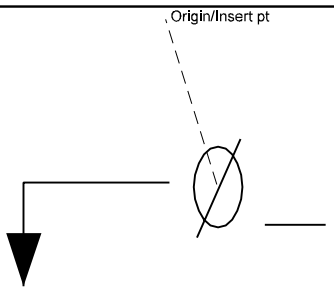
		
Electrical:SENULS ULTRASONIC SENSOR Element type: Symbol	Electrical:SFL SEQUENCED FLASHER LIGHT Element type: Symbol	Electrical:SLLN STLT LUMINAIRE_NEW Element type: Symbol
		
Electrical:SLLR STLT LUMINAIRE_REMOVE Element type: Symbol	Electrical:SLLX STLT LUMINAIRE_EXISTING Element type: Symbol	Electrical:SLREG CONSTNT CURRENT TRANSFORMER Element type: Symbol
		
Electrical:SM MOTOR SWITCH Element type: Symbol	Electrical:SOUNDS SOUND SYSTEM INDICATE USE Element type: Symbol	Electrical:STP14 SURF PEND REC 1X4 STRP Element type: Symbol

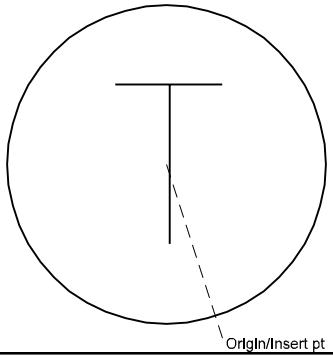
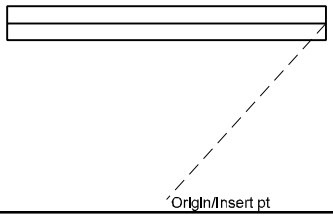
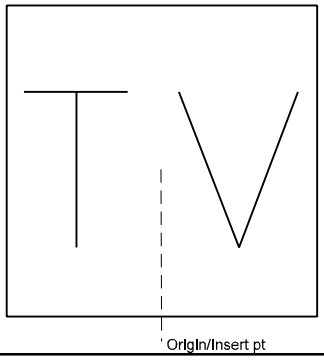
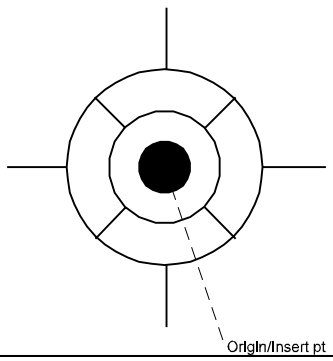
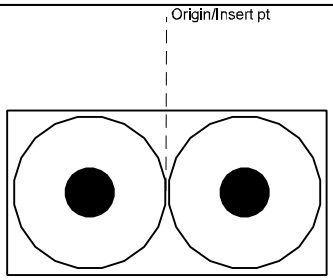
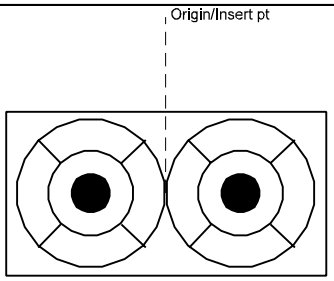
		
Electrical:STP14B SURFACE 1X4 STRIP BATTERY Element type: Symbol	Electrical:STP18 SURF PEND REC 1X8 STRP Element type: Symbol	Electrical:STP18B SURFACE 1X8 STRIP BATTERY Element type: Symbol
		
Electrical:SUBSTA SUBSTATION Element type: Symbol	Electrical:SWFLNC NORMALLY CLOSED FLOAT SWTCH Element type: Symbol	Electrical:SWFLNO NORMALLY OPEN FLOAT SWITCH Element type: Symbol
		
Electrical:SWFNC NORMALLY CLOSED FLOW SWITCH Element type: Symbol	Electrical:SWFNO NORMALLY OPEN FLOW SWITCH Element type: Symbol	Electrical:SWFONC NORM CLSD FOOT OPRTD SWTCH Element type: Symbol

		
Electrical:SWI2WY DOUBLE POLE SWITCH Element type: Symbol	Electrical:SWI3WY THREE WAY SWITCH Element type: Symbol	Electrical:SWI4WY FOUR WAY SWITCH Element type: Symbol
		
Electrical:SWICB CIRCUIT BREAKER Element type: Symbol	Electrical:SWIDIS DISCONNECT SWITCH Element type: Symbol	Electrical:SWIDM1 DIMMER Element type: Symbol
		
Electrical:SWIDM2 DIMMER SWITCH Element type: Symbol	Electrical:SWIDUR DURESS SWITCH Element type: Symbol	Electrical:SWIFUS FUSED SWITCH Element type: Symbol

		
Electrical:SWIKEY KEY OPERATED SWITCH Element type: Symbol	Electrical:SWILVM LOW VOLTAGE MASTER SWITCH Element type: Symbol	Electrical:SWITCH SINGLE POLE SWITCH Element type: Symbol
		
Electrical:SWITIM TIMER OPERATED SWITCH Element type: Symbol	Electrical:SWLAMP LAMP HOLDER POLE SWITCH Element type: Symbol	Electrical:SWLNC NORMALLY CLOSED LIMIT SWTCH Element type: Symbol
		
Electrical:SWLNO NORMALLY OPEN LIMIT SWITCH Element type: Symbol	Electrical:SWMULT MULTIPOSITION SWITCH Element type: Symbol	Electrical:SWPADN SWITCH_PAD_NEW Element type: Symbol

		
Electrical:SWPADX SWITCH_PAD_EXIST Element type: Symbol	Electrical:SWPCM CEILING MOUNTED PULL SWITCH Element type: Symbol	Electrical:SWPCOI PRES SWTCH CLSE ON INCREASE Element type: Symbol
		
Electrical:SWPOOI PRESS SWTCH OPN ON INCREASE Element type: Symbol	Electrical:SWSBRK SINGLE BREAK SWITCH Element type: Symbol	Electrical:SWTANC NORMCLSDTEMPACTIVATEDSWTCH Element type: Symbol
		
Electrical:SWTANO NORMOPNTEMPACTIVATEDSWTCH Element type: Symbol	Electrical:SWTDNC NORM CLSD TIME DELAY SWITCH Element type: Symbol	Electrical:SWTDNO NORM OPEN TIME DELAY SWITCH Element type: Symbol

		
Electrical:TDZL TOUCHDOWN ZONE LIGHT Element type: Symbol	Electrical:THL THRESHOLD LIGHT Element type: Symbol	Electrical:TOWER TRANSMISSION TOWER Element type: Symbol
		
Electrical:TRFSIG TRAFFIC SIGNAL MAST ARM Element type: Symbol	Electrical:TSCTRL TR SIGNAL CONTROLLER Element type: Symbol	Electrical:TSHEAD TRAFFIC SIGNAL HEAD Element type: Symbol
		
Electrical:TSPBX TR SIGNAL PULLBOX Element type: Symbol	Electrical:TSPHS TR SIGNAL PH NO_THRU Element type: Symbol	Electrical:TSPHT TR SIGNAL PH NO_TURN Element type: Symbol

		
Electrical:TSTAT THERMOSTAT Element type: Symbol	Electrical:TSVLDT TR SIGNAL VEH LOOP DETECTOR Element type: Symbol	Electrical:TVOUT TELEVISION OUTLET Element type: Symbol
		
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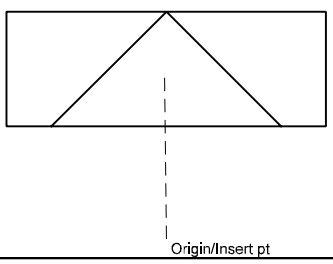	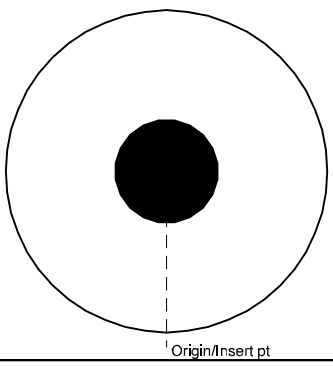	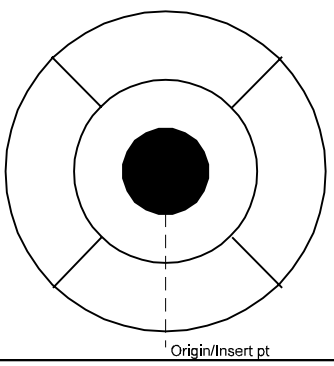
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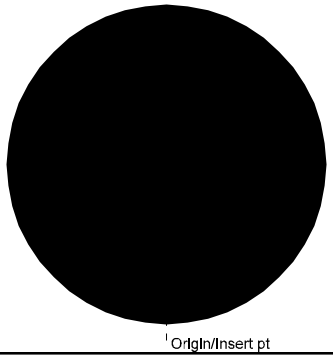	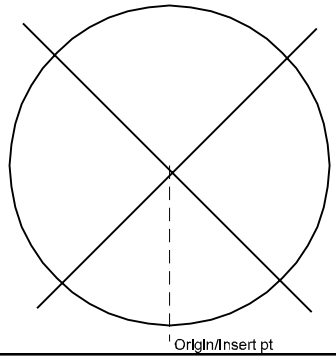	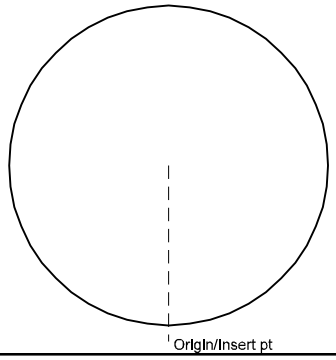
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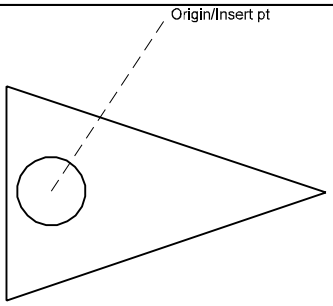	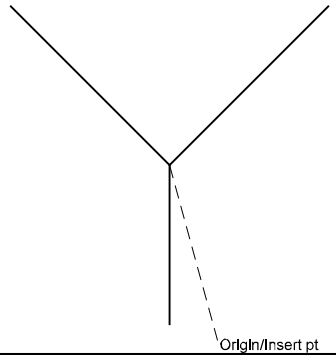	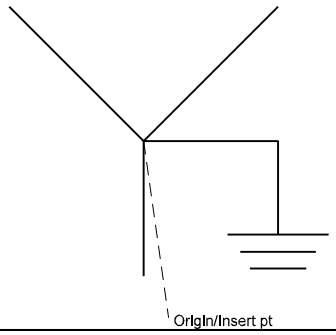
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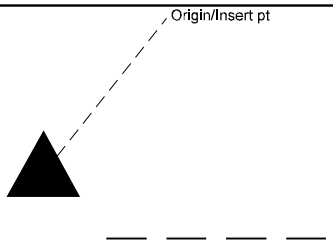	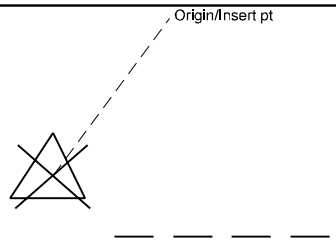	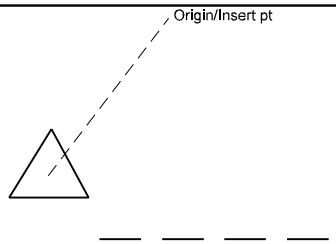
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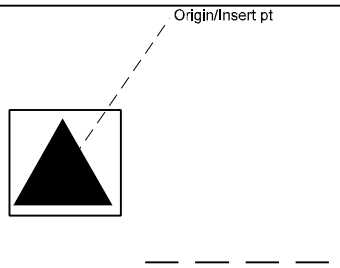	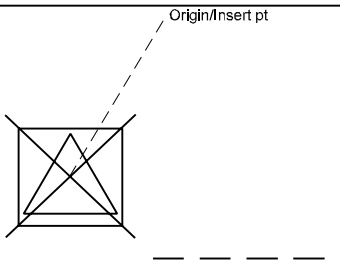	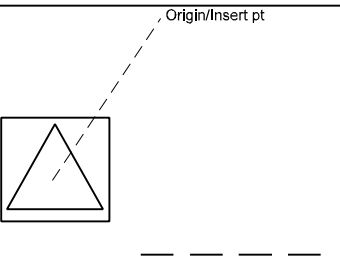
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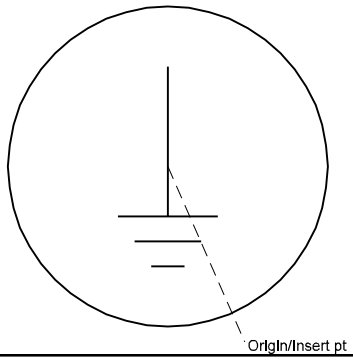
14 Telecommunications Lines Library

F O	W W W W
Telecommunications: FIBOPT FIBER OPTICS LINE Element type: Line	Telecommunications: WIREWY WIREWAY Element type: Line

14 Telecommunications Symbols Library



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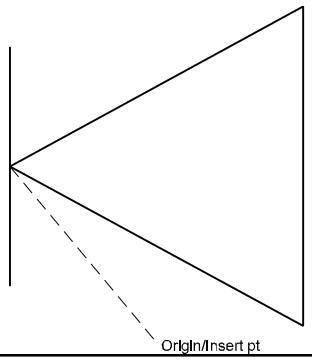

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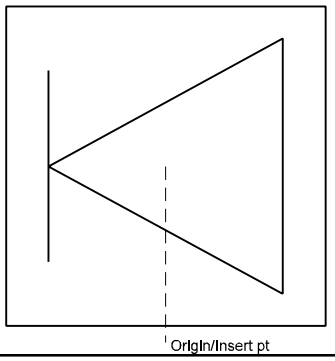

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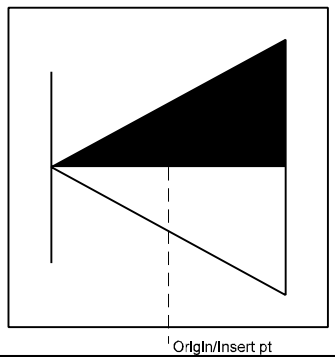

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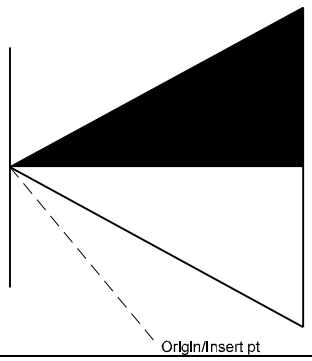

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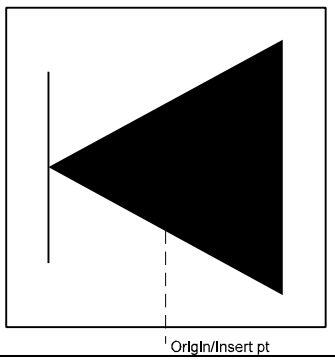

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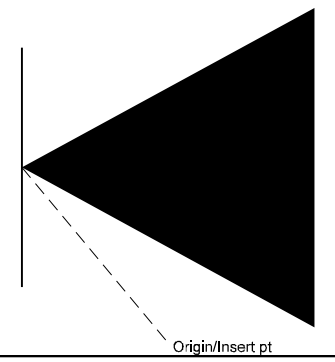

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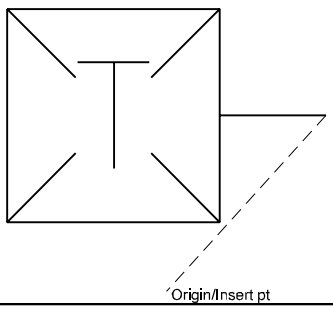

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

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1. REPORT DATE *(DD-MM-YYYY)*
September 2001

2. REPORT TYPE
Final report

3. DATES COVERED *(From - To)*

4. TITLE AND SUBTITLE
A/E/C CADD Standard, Release 2.0; Appendix D

5a. CONTRACT NUMBER

5b. GRANT NUMBER

5c. PROGRAM ELEMENT NUMBER

6. AUTHOR(S)
The CADD/GIS Technology Center

5d. PROJECT NUMBER

5e. TASK NUMBER

5f. WORK UNIT NUMBER

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
U.S. Army Engineer Research and Development Center
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

8. PERFORMING ORGANIZATION REPORT NUMBER
ERDC/ITL TR-01-6

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

10. SPONSOR/MONITOR'S ACRONYM(S)

11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release; distribution is unlimited.

13. SUPPLEMENTARY NOTES
The main text and Appendices A, B, and C are bound in a separate volume.

14. ABSTRACT

The "A/E/C CADD Standard Manual" has been developed by the CADD/GIS Technology Center (CGTC) to reduce redundant CADD standardization efforts within the Army, Navy, and Air Force. The manual is part of an initiative to consolidate existing CADD drafting standards and to develop data standards that address the entire life-cycle of facilities within the Department of Defense Tri-Service.

The CADD drafting standards addressed in the "A/E/C CADD Standard Manual" include presentation graphics, level/layer assignments, metric/English scales, electronic file naming, and standard symbology. As the manual evolves, it will also include nongraphic database standards that address issues such as cost engineering and specification generation. The CGTC's primary goal is to develop a CADD standard that is generic enough to operate under various CADD software packages (such as Intergraph's MicroStation and Autodesk's AutoCAD) and incorporate existing industry standards when possible.

15. SUBJECT TERMS
A/E/C
CADD
CADD standards
Drafting standards

16. SECURITY CLASSIFICATION OF:			**17. LIMITATION OF ABSTRACT**	**18. NUMBER OF PAGES**	**19a. NAME OF RESPONSIBLE PERSON**
a. REPORT	**b. ABSTRACT**	**c. THIS PAGE**			**19b. TELEPHONE NUMBER** *(include area code)*
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED		284	

Standard Form 298 (Rev. 8-98)
Prescribed by ANSI Std. 239.18