ROADWAY DESIGN

Nebraska Department of Roads

CELL LIBRARIES:

AREA PATTERNS
CULVERTS
DISPLAY
DRAINAGE
FLARED END SECTION
GUARDRAIL
LIGHTING
MASTER
PLAN DEVELOPMENT UNIT PATTERN
PRELIMINARY
TURNING TEMPLATE
TYPICAL

JUNE 2007

ROADWAY DESIGN

Nebraska Department of Roads

AREA PATTERNS

JUNE 2007

NAME OF LIBRARY = AREAPAT.CEL

ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: areapat.cel

Cell Name: ANSI31
Descrip: ANSI31 AREA PATTERN

Cell Name: ANSI32
Descrip: ANSI32 AREA PATTERN

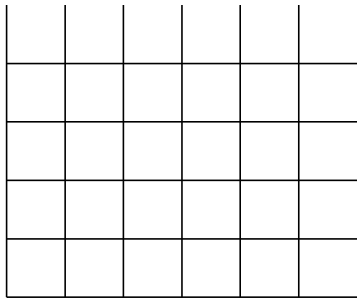
Cell Name: ANSI33
Descrip: ANSI33 AREA PATTERN

Cell Name: ANSI34
Descrip: ANSI34 AREA PATTERN

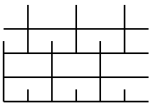
Cell Name: ANSI35
Descrip: ANSI35 AREA PATTERN

Cell Name: ANSI36
Descrip: ANSI36 AREA PATTERN

Cell Name: ANSI37
Descrip: ANSI37 AREA PATTERN

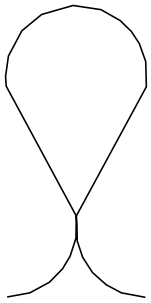


Cell Name: ANSI38
Descrip: ANSI38 AREA PATTERN



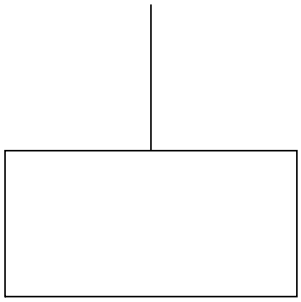
Cell Library: areapat.cel

Cell Name: BATEN
Descrip: BATEN AREA PATTERN

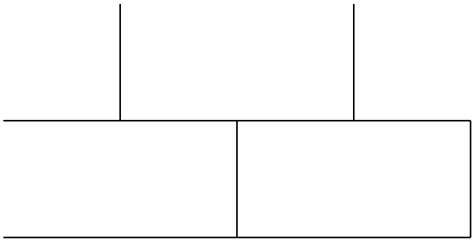


Cell Name: BRASS
Descrip: BRASS AREA PATTERN

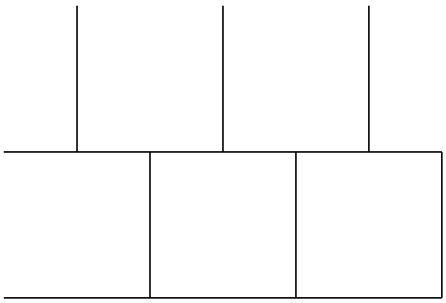
Cell Name: BRICK
Descrip: BRICK AREA PATTERN



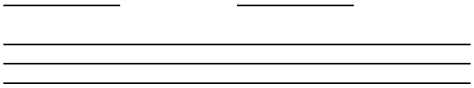
Cell Name: CBLK16
Descrip: 16 INCH CONC BLOCK PATRN



Cell Name: CBLK8
Descrip: 8 INCH CONC BLOCK PATRN

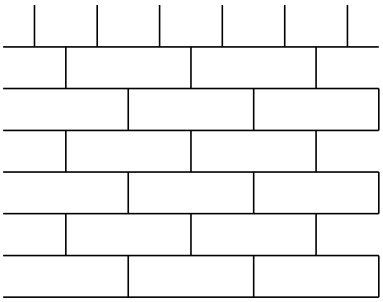


Cell Name: CLAY
Descrip: CLAY AREA PATTERN



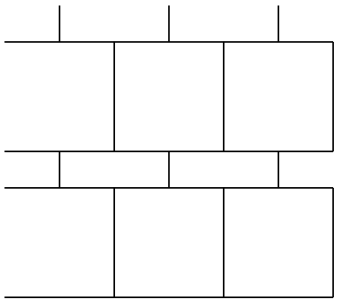
Cell Name: CLGRID
Descrip: 2X4 CEILING GRID PATTERN

Cell Name: CMBOND
Descrip: COMMON BOND BRICK PATRN

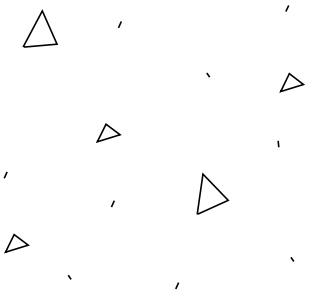


Cell Library: areapat.cel

Cell Name: COASH
Descrip: COURSED BRICK.BLOCK PATRN

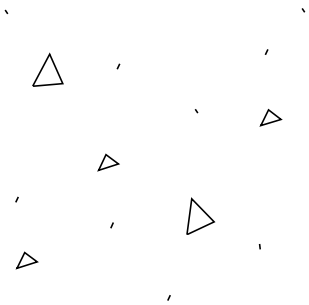


Cell Name: CONCR2
Descrip: CONCRETE SECT SYMBOL NO.2

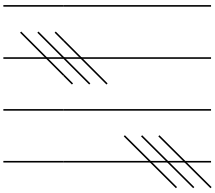


Cell Name: CONCR3
Descrip: CONCRETE SECT SYMBOL NO.3

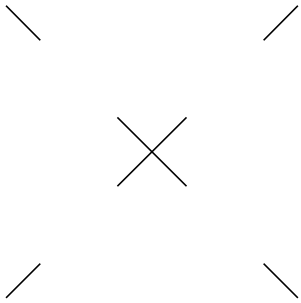
Cell Name: CONCRT
Descrip: CONCRETE AREA PATTERN



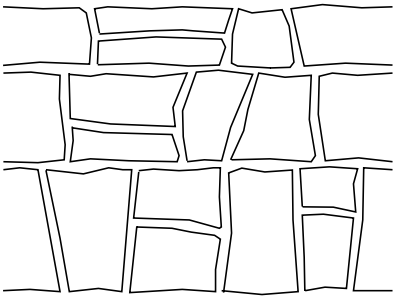
Cell Name: CORK
Descrip: CORK AREA PATTERN



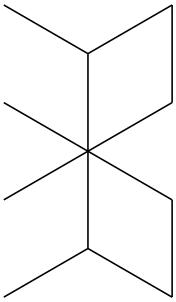
Cell Name: CROSS
Descrip: CROSS AREA PATTERN



Cell Name: CRSRBL
Descrip: COURSED RUBBLE PATRN



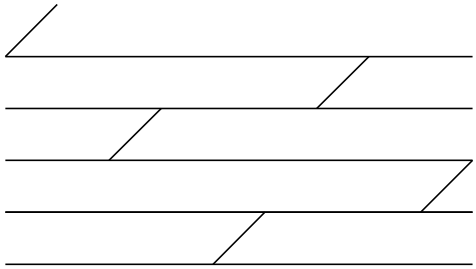
Cell Name: CUBES
Descrip: CUBES AREA PATTERN



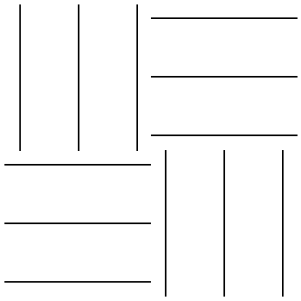
Cell Library: areapat.cel

Cell Name: DASH
Descrip: DASHED AREA PATTERN

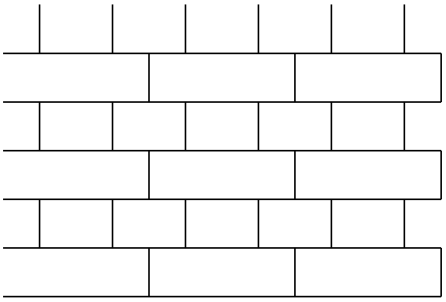
Cell Name: DOLMIT
Descrip: DOLOMITE AREA PATTERN



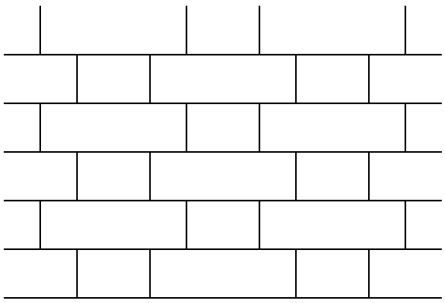
Cell Name: EARTH
Descrip: EARTH AREA PATTERN



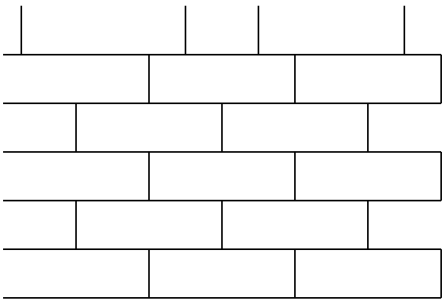
Cell Name: ENBOND
Descrip: ENGISH BOND BRICK PATRN



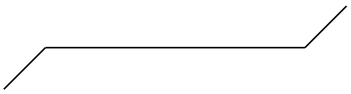
Cell Name: FLBOND
Descrip: FLEMISH BOND BRICK PATRN



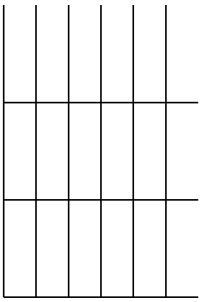
Cell Name: FLCOMM
Descrip: FLEMISH COMMON BOND PATRN



Cell Name: FLEX
Descrip: FLEXIBLE MATERIAL PATTERN



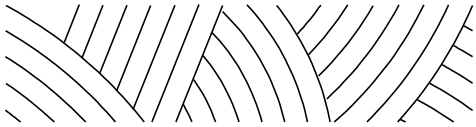
Cell Name: GBLOCK
Descrip: GROOVED CONC BLOCK PATRN



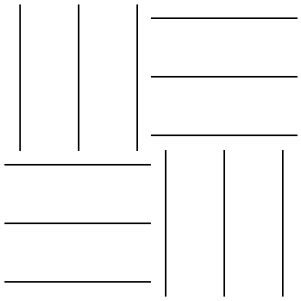
Cell Library: areapat.cel

Cell Name: GRADE1
Descrip: SECT THRU GRADE LPAT.APAT

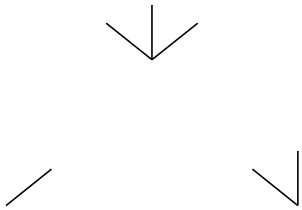
Cell Name: GRADE2
Descrip: SECT THRU GRADE APAT



Cell Name: GRADE3
Descrip: SECT THRU GRADE NO.3

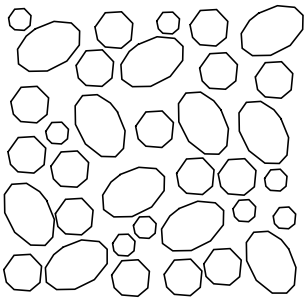


Cell Name: GRASS
Descrip: GRASS AREA PATTERN

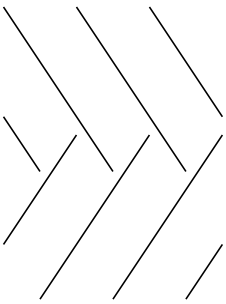


Cell Name: GRATE
Descrip: GRATE AREA PATTERN

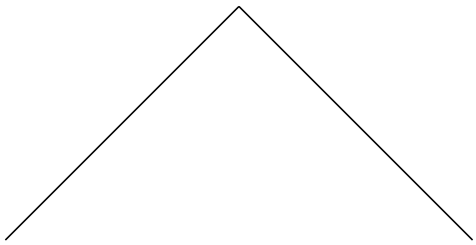
Cell Name: GRAVEL
Descrip: GRAVEL APAT SYMBOL



Cell Name: HBONE
Descrip: HERRINGBONE LPAT.APAT

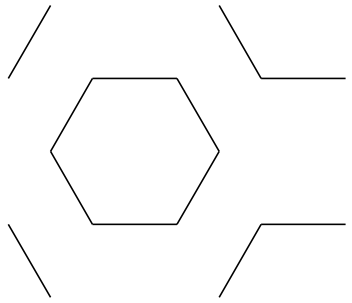


Cell Name: HERRNG
Descrip: HERRINGBONE PATTERN

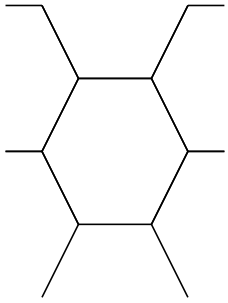


Cell Library: areapat.cel

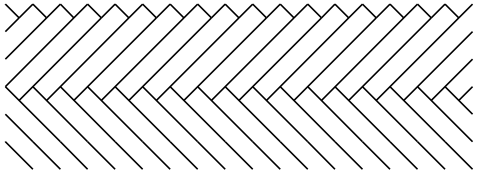
Cell Name: HEX
Descrip: HEXAGON AREA PATTERN



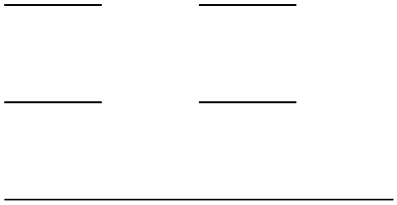
Cell Name: HONEY
Descrip: HONEYCOMB AREA PATTERN



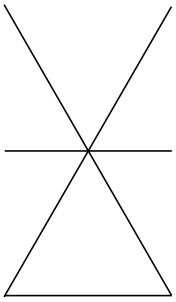
Cell Name: HRNGFL
Descrip: HERRINGBONE WOOD FLOOR PTRN



Cell Name: INSUL
Descrip: INSULATION AREA PATTERN

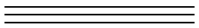


Cell Name: ISO
Descrip: ISOMETRIC AREA PATTERN

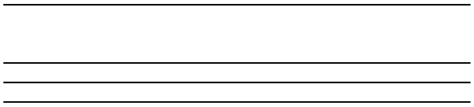


Cell Name: LITCON
Descrip: LIGHT CONCRETE PATTERN

Cell Name: PLAST
Descrip: PLASTIC AREA PATTERN

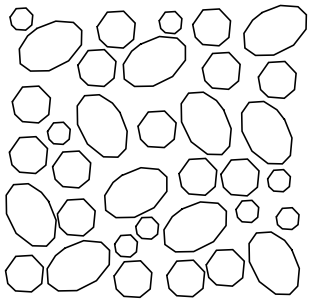


Cell Name: PLASTI
Descrip: PLASTIC AREA PATTERN

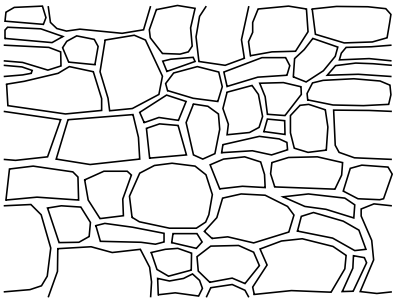


Cell Library: areapat.cel

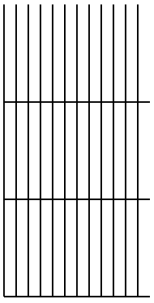
Cell Name: POROUS
Descrip: POROUS MATERIAL PATTERN



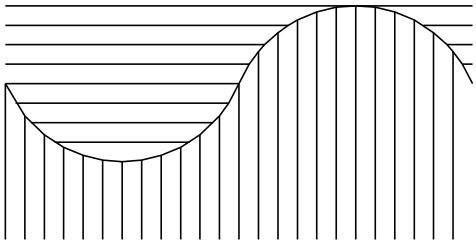
Cell Name: RANRBL
Descrip: RANDOM RUBBLE PATRN



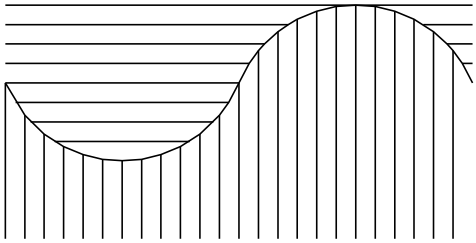
Cell Name: RBLOCK
Descrip: RIBBED CONC BLOCK PATRN



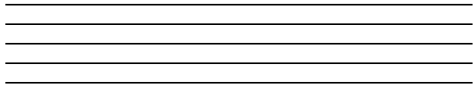
Cell Name: ROCK
Descrip: ROCK AREA PATTERN



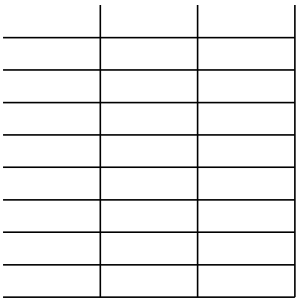
Cell Name: ROCK2
Descrip: SECT CUT ROCK APAT NO.2



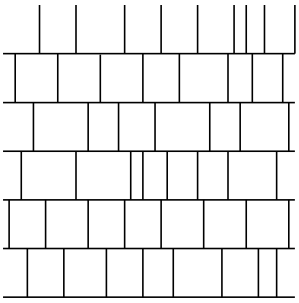
Cell Name: RUBBER
Descrip: RUBBER AREA PATTERN



Cell Name: SBRICK
Descrip: BRICK STACK BOND PATTERN

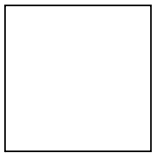


Cell Name: SHNGLE
Descrip: WOOD SHINGLE PATTERN

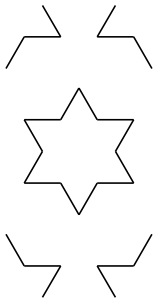


Cell Library: areapat.cel

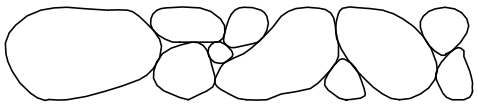
Cell Name: SQUARE
Descrip: SQUARE AREA PATTERN



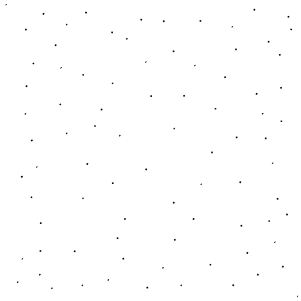
Cell Name: STARS
Descrip: STAR AREA PATTERN



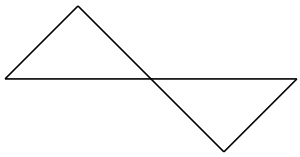
Cell Name: STONWL
Descrip: STONE WALL LPAT.APAT



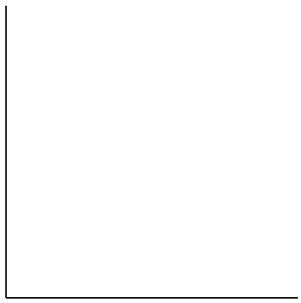
Cell Name: STUCCO
Descrip: STUCCO PATTERN



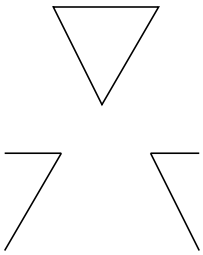
Cell Name: THRMIN
Descrip: THERMAL INSULATION



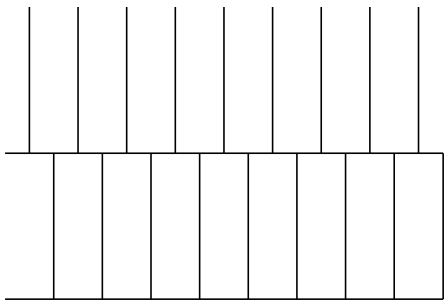
Cell Name: TILE
Descrip: IXI TILE PATTERN



Cell Name: TRIANG
Descrip: TRIANGLE AREA PATTERN

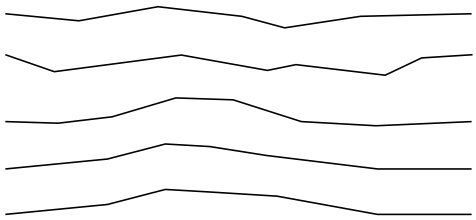


Cell Name: VBRICK
Descrip: VERT BRICK PATRN RUNNG BOND

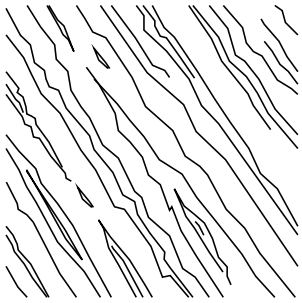


Cell Library: areapat.cel

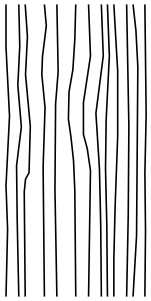
Cell Name: WOOD
Descrip: WOODGRAIN PATTERN



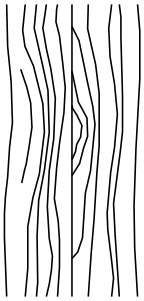
Cell Name: WOOD1
Descrip: WOOD GRAIN PATTERN NO.1



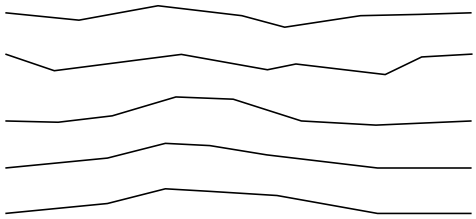
Cell Name: WOOD2
Descrip: WOOD GRAIN PATTERN NO.2



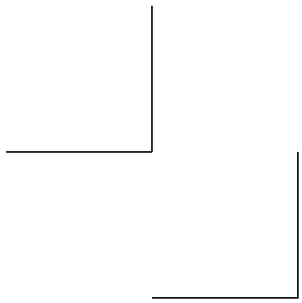
Cell Name: WOOD3
Descrip: WOOD GRAIN PATTERN NO.3



Cell Name: WOOD4
Descrip: WOODGRAIN APAT NO.4



Cell Name: ZIGZAG
Descrip: ZIGZAG AREA PATTERN



ROADWAY DESIGN

Nebraska Department of Roads

CULVERTS

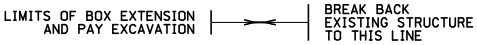
JUNE 2007

NAME OF LIBRARY = CULV.CEL

ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: culv.cel

Cell Name: BXNTLT
Descrip: BOX EXTENSION NOTE LT

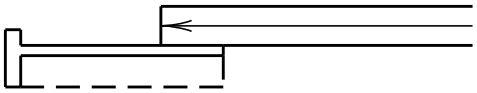


Cell Name: BXNTRT
Descrip: BOX EXTENSION NOTE RT

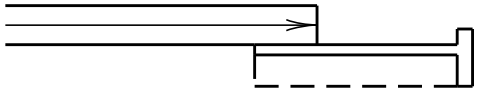
Cell Name: EWT
Descrip: EXISTING WALL THICKNESS

EXISTING WALL THICKNESS			
TT	TO	TB	TI

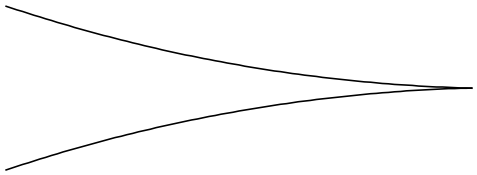
Cell Name: FLBSLT
Descrip: FLUME BASE LEFT



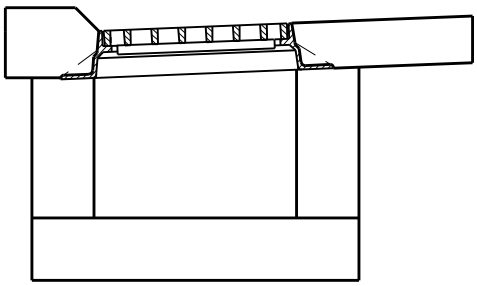
Cell Name: FLBSRT
Descrip: FLUME BASE RIGHT



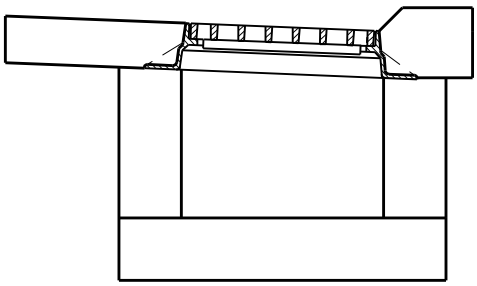
Cell Name: KARROW
Descrip: ARROWHEAD



Cell Name: T7BX4L
Descrip: TYPE 7 FLUME BOX LEFT
4 FT SHOULDER

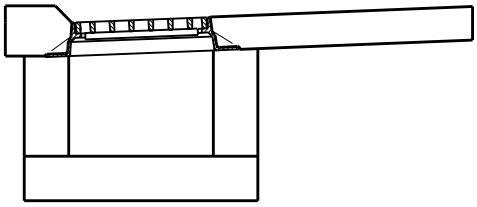


Cell Name: T7BX4R
Descrip: TYPE 7 FLUME BOX RIGHT
4 FT SHOULDER

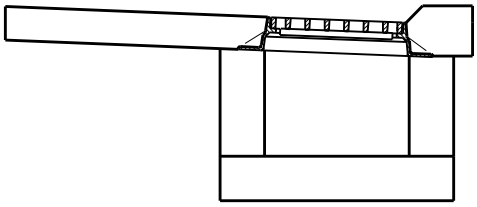


Cell Library: culv.cel

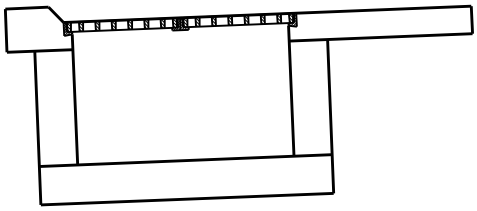
Cell Name: T7BX6L
Descrip: TPYE 7 FLUME BOX LEFT
6 FT SHOULDER



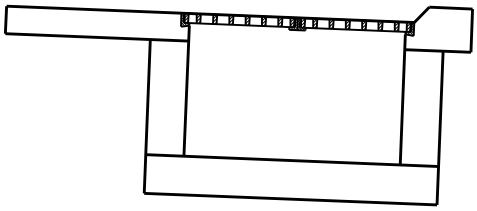
Cell Name: T7BX6R
Descrip: TYPE 7 FLUME BOX RIGHT
6 FT SHOULDER



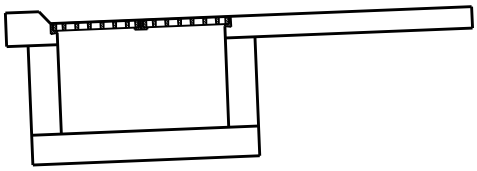
Cell Name: T8BX6L
Descrip: TPYE 8 FLUME BOX LEFT
6 FT SHOULDER



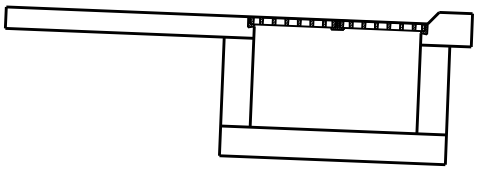
Cell Name: T8BX6R
Descrip: TPYE 8 FLUME BOX RIGHT
6 FT SHOULDER



Cell Name: T8BX8L
Descrip: TPYE 8 FLUME BOX LEFT
8 FT SHOULDER



Cell Name: T8BX8R
Descrip: TPYE 8 FLUME BOX RIGHT
8 FT SHOULDER



ROADWAY DESIGN

Nebraska Department of Roads

DISPLAY

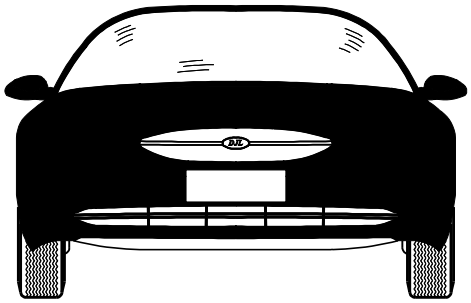
JUNE 2007

NAME OF LIBRARY = DISPLAY.CEL

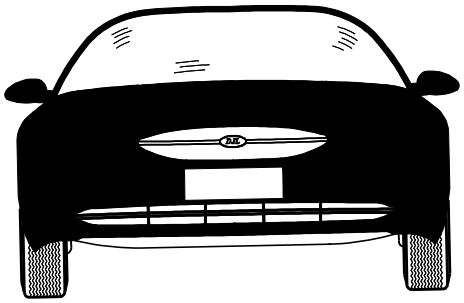
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: display.cel

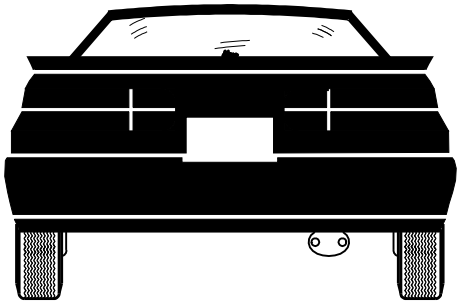
Cell Name: CAR1
Descrip: LEVEL FRONT



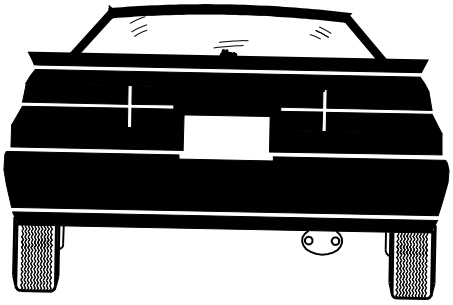
Cell Name: CAR2
Descrip: 2 PERCENT GRADE FRONT



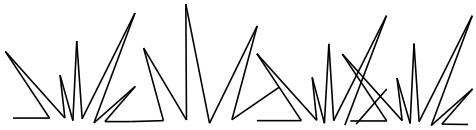
Cell Name: CAR3
Descrip: LEVEL REAR



Cell Name: CAR4
Descrip: 2 PERCENT GRADE REAR



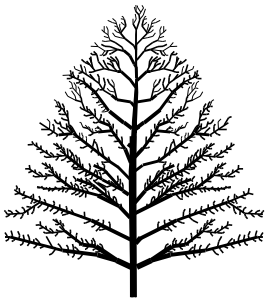
Cell Name: GRASS
Descrip: GRASS



Cell Name: LSTREE
Descrip: SUMMER DECIDUOUS LEFT SIDE

Cell Name: NORTH ARROW
Descrip: DISPLAY NORTH ARROW

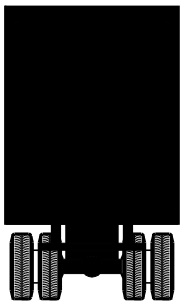
Cell Name: PINE
Descrip: PINE TREE



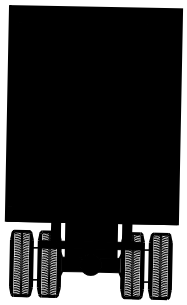
Cell Library: display.cel

Cell Name: RSTREE
Descrip: SUMMER DECIDUOUS RIGHT SIDE

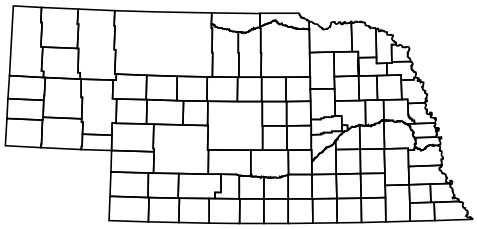
Cell Name: SEMI1
Descrip: TRAILER LEVEL



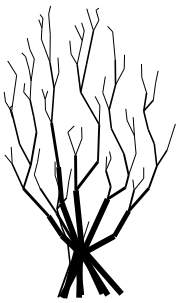
Cell Name: SEMI2
Descrip: TRAILER ON 2 PCT GRADE



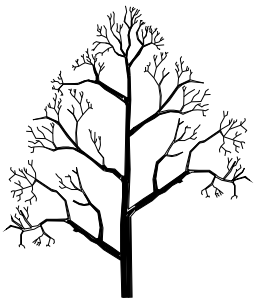
Cell Name: STATE MAP
Descrip: ALL COUNTIES ARE DRAWN AS SHAPES



Cell Name: WSHRUB
Descrip: WINTER SHRUB



Cell Name: WTREE
Descrip: WINTER DECIDUOUS TREE



ROADWAY DESIGN

Nebraska Department of Roads

DRAINAGE

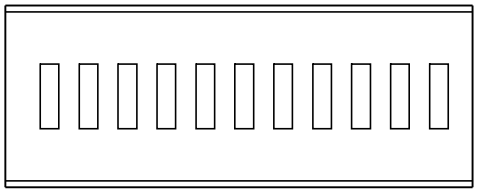
JUNE 2007

NAME OF LIBRARY = DRAIN.CEL

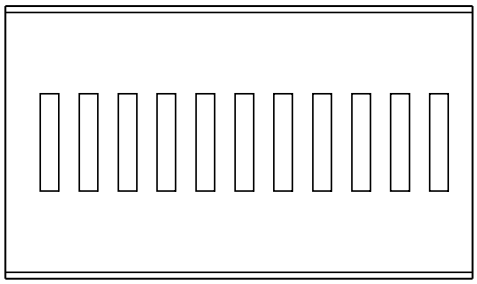
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: drain.cel

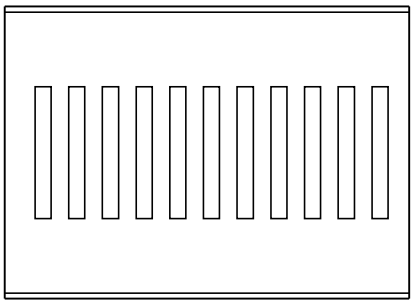
Cell Name: 18RCSP
Descrip: 18 INCH RC SLOTTED PIPE



Cell Name: 24RCSP
Descrip: 24 INCH RC SLOTTED PIPE



Cell Name: 30RCSP
Descrip: 30 INCH RC SLOTTED PIPE



Cell Name: B10E
Descrip: EXIST 10FT BOX END

Cell Name: B11E
Descrip: EXIST 11FT BOX END

Cell Name: B12E
Descrip: EXIST 12FT BOX END

Cell Name: B14E
Descrip: EXIST 14FT BOX END

Cell Name: B4E
Descrip: EXIST 4FT BOX END

Cell Library: drain.cel

Cell Name: B5E
Descrip: EXIST 5FT BOX END

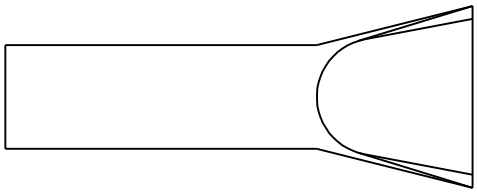
Cell Name: B6E
Descrip: EXIST 6FT BOX END

Cell Name: B7E
Descrip: EXIST 7FT BOX END

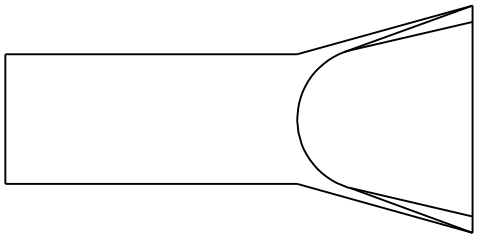
Cell Name: B8E
Descrip: EXIST 8FT BOX END

Cell Name: B9E
Descrip: EXSIT 9FT BOX END

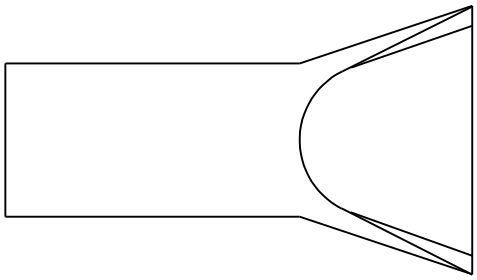
Cell Name: C12
Descrip: 12IN CONC FES



Cell Name: C15
Descrip: 15IN CONC FES

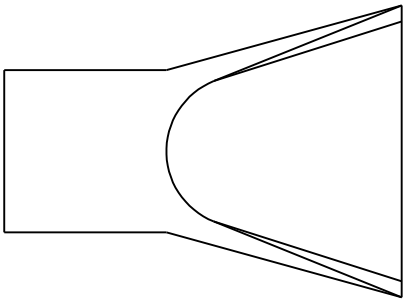


Cell Name: C18
Descrip: 18IN CONC FES

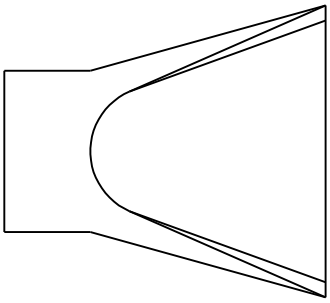


Cell Library: drain.cel

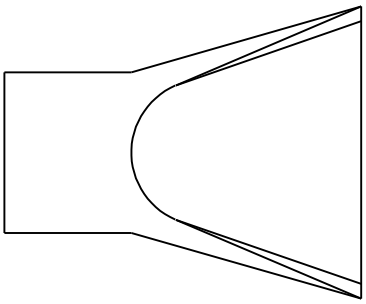
Cell Name: C24
Descrip: 24IN CONC FES



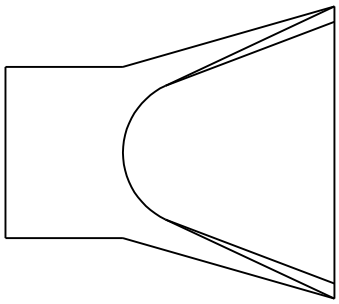
Cell Name: C30
Descrip: 30IN CONC FES



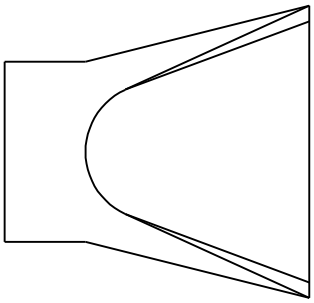
Cell Name: C36
Descrip: 36IN CONC FES



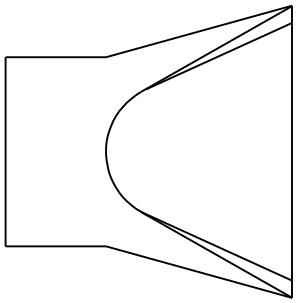
Cell Name: C42
Descrip: 42IN CONC FES



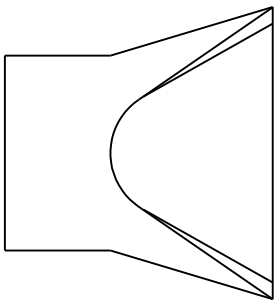
Cell Name: C48
Descrip: 48IN CONC FES



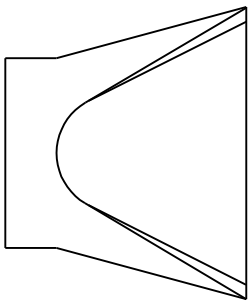
Cell Name: C54
Descrip: 54IN CONC FES



Cell Name: C60
Descrip: 60IN CONC FES

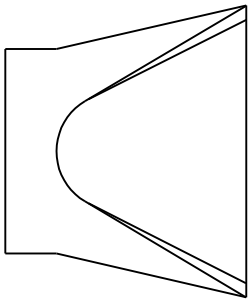


Cell Name: C66
Descrip: 66IN CONC FES

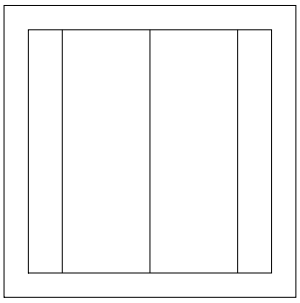


Cell Library: drain.cel

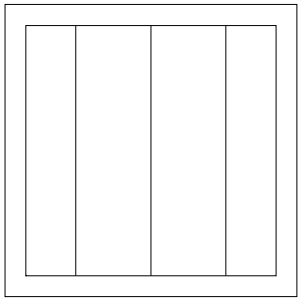
Cell Name: C72
Descrip: 72IN CONC FES



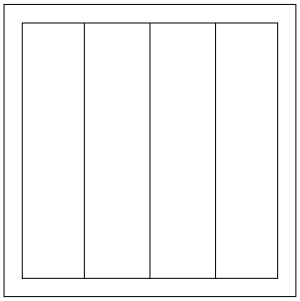
Cell Name: CGI30
Descrip: CONC GRATE INLET 30IN



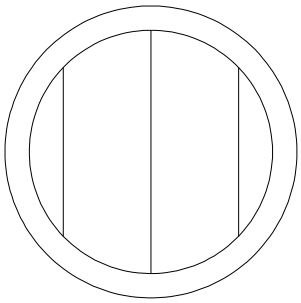
Cell Name: CGI36
Descrip: CONC GRATE INLET 36IN



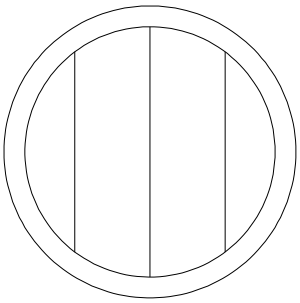
Cell Name: CGI42
Descrip: CONC GRATE INLET 42IN



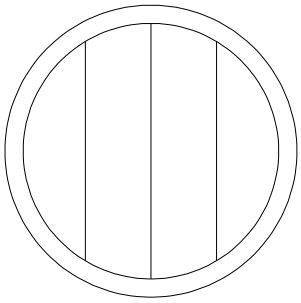
Cell Name: CMI30
Descrip: CONC MEDIAN INLET 30IN



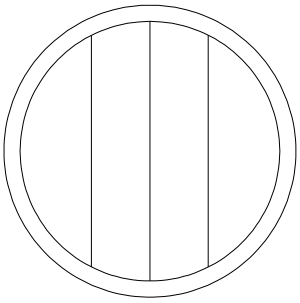
Cell Name: CMI36
Descrip: CONC MEDIAN INLET 36IN



Cell Name: CMI42
Descrip: CONC MEDIAN INLET 42IN

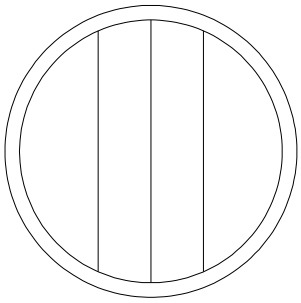


Cell Name: CMI48
Descrip: CONC MEDIAN INLET 48IN

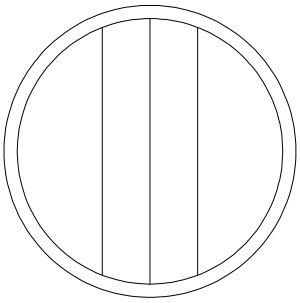


Cell Library: drain.cel

Cell Name: CM154
Descrip: CONC MEDIAN INLET 54IN



Cell Name: CM160
Descrip: CONC MEDIAN INLET 60IN



Cell Name: E102E
Descrip: EXIST 102IN PIPE END

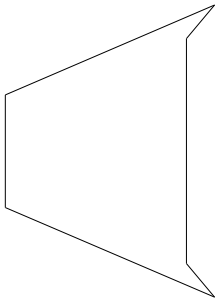
Cell Name: E108E
Descrip: EXIST 108IN PIPE END

Cell Name: E10E
Descrip: EXIST 10IN PIPE END

Cell Name: E12E
Descrip: EXIST 12IN PIPE END

Cell Name: E15E
Descrip: EXIST 15IN PIPE END

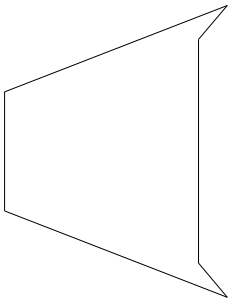
Cell Name: E18
Descrip: EXIST 18IN FES



Cell Library: drain.cel

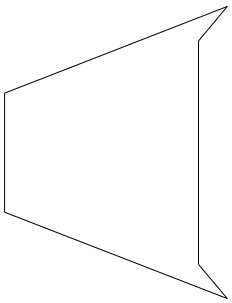
Cell Name: E18E
Descrip: EXIST 18IN PIPE END

Cell Name: E24
Descrip: EXIST 24IN FES



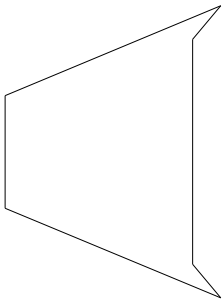
Cell Name: E24E
Descrip: EXIST 24IN PIPE END

Cell Name: E30
Descrip: EXIST 30IN FES



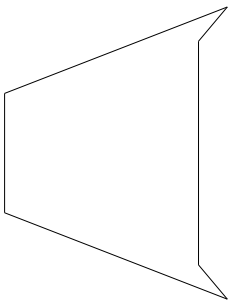
Cell Name: E30E
Descrip: EXIST 30IN PIPE END

Cell Name: E36
Descrip: EXIST 36IN FES



Cell Name: E36E
Descrip: EXIST 36IN PIPE END

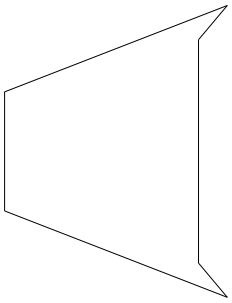
Cell Name: E42
Descrip: EXIST 42IN FES



Cell Library: drain.cel

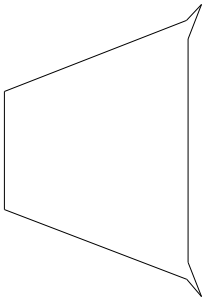
Cell Name: E42E
Descrip: EXIST 42IN PIPE END

Cell Name: E48
Descrip: EXIST 48IN FES



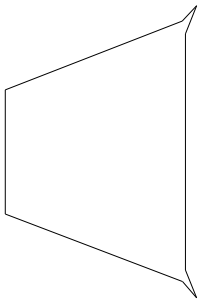
Cell Name: E48E
Descrip: EXIST 48IN PIPE END

Cell Name: E54
Descrip: EXIST 54IN FES



Cell Name: E54E
Descrip: EXIST 54IN PIPE END

Cell Name: E60
Descrip: EXIST 60IN FES

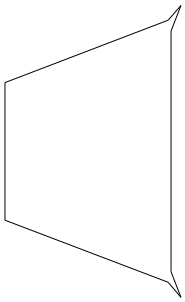


Cell Name: E60E
Descrip: EXIST 60IN PIPE END

Cell Name: E66E
Descrip: EXIST 66IN PIPE END

Cell Name: E6E
Descrip: EXIST 6IN PIPE END

Cell Name: E72
Descrip: EXIST 72IN FES



Cell Name: E72E
Descrip: EXIST 72IN PIPE END

Cell Name: E78E
Descrip: EXIST 78IN PIPE END

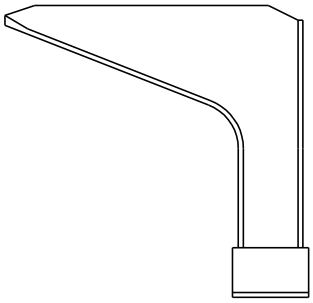
Cell Name: E84E
Descrip: EXIST 84IN PIPE END

Cell Name: E8E
Descrip: EXIST 8IN PIPE END

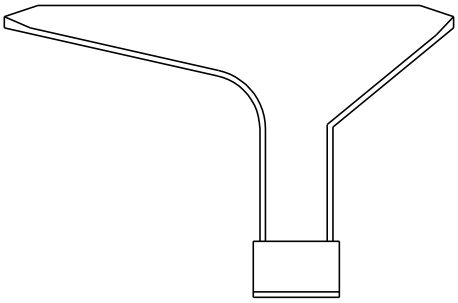
Cell Name: E90E
Descrip: EXIST 90IN PIPE END

Cell Name: E96E
Descrip: EXIST 96IN PIPE END

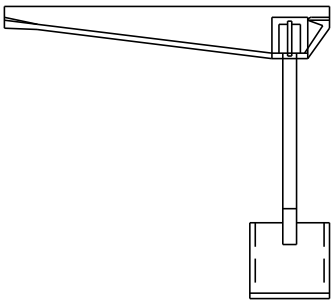
Cell Name: FLUM1
Descrip: CONC FLUME TYPE 1



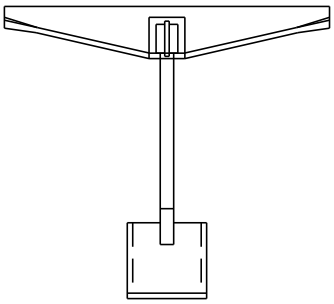
Cell Name: FLUM2
Descrip: CONC FLUME TYPE 2



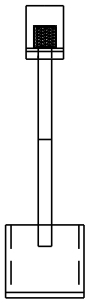
Cell Name: FLUM4
Descrip: CONC FLUME TYPE 4



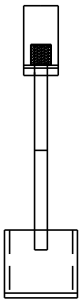
Cell Name: FLUM5
Descrip: CONC FLUME TYPE 5



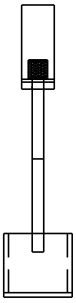
Cell Name: FLUM74
Descrip: FLUME TYPE 7 4 FT SHOULDER



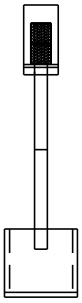
Cell Name: FLUM76
Descrip: FLUME TYPE 7 6 FT SHOULDER



Cell Name: FLUM78
Descrip: FLUME TYPE 7 8 FT SHOULDER

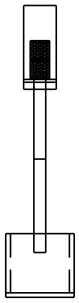


Cell Name: FLUM86
Descrip: FLUME TYPE 8 6 FT SHOULDER

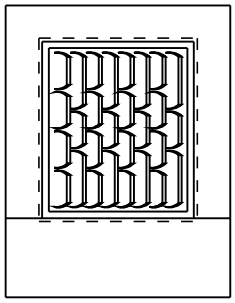


Cell Library: drain.cel

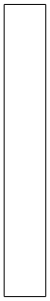
Cell Name: FLUM88
Descrip: FLUME TYPE 8 8 FT SHOULDER



Cell Name: GRAIN
Descrip: GRATED AREA INLET



Cell Name: H18
Descrip: EXIST 18IN PIPE HDWL



Cell Name: H24
Descrip: EXIST 24IN PIPE HDWL

Cell Name: H30
Descrip: EXIST 30IN PIPE HDWL

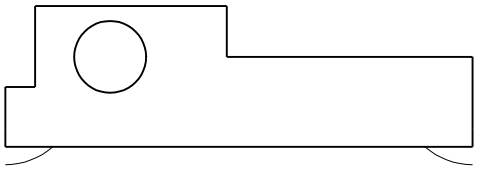
Cell Name: H36
Descrip: EXIST 36IN PIPE HDWL

Cell Name: H42
Descrip: EXIST 42IN PIPE HDWL

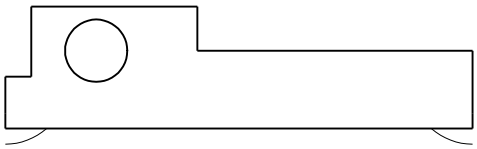
Cell Name: H48
Descrip: EXIST 48IN PIPE HDWL

Cell Library: drain.cel

Cell Name: IN10
Descrip: CURB INLET Y EQ 10

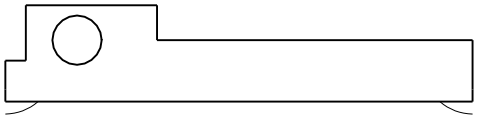


Cell Name: IN12
Descrip: CURB INLET Y EQ 12

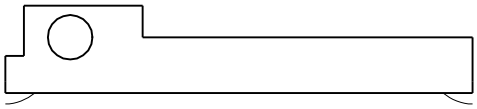


Cell Name: IN14
Descrip: CURB INLET Y EQ 14

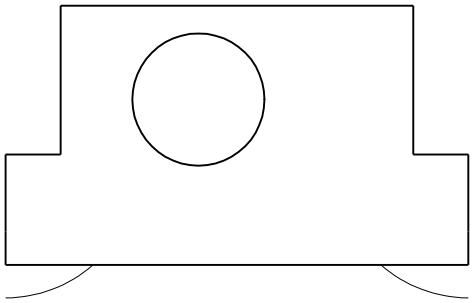
Cell Name: IN16
Descrip: CURB INLET Y EQ 16



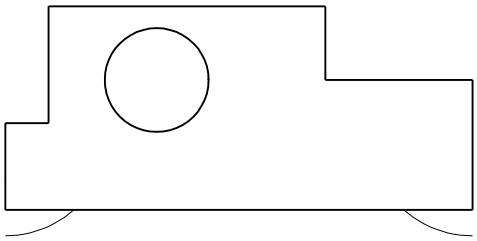
Cell Name: IN18
Descrip: CURB INLET Y EQ 18



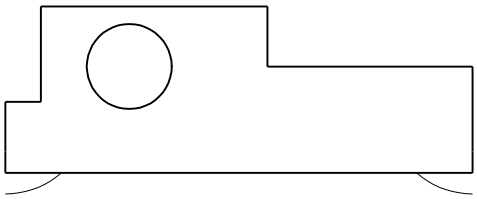
Cell Name: IN4
Descrip: CURB INLET Y EQ 4



Cell Name: IN6
Descrip: CURB INLET Y EQ 6

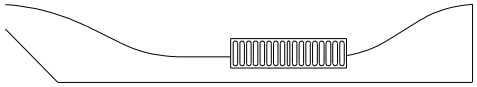


Cell Name: IN8
Descrip: CURB INLET Y EQ 8

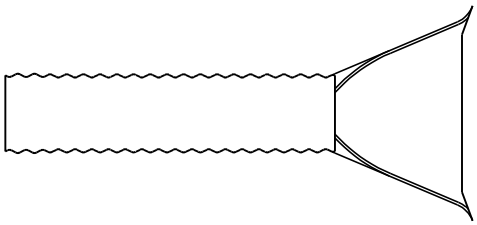


Cell Library: drain.cel

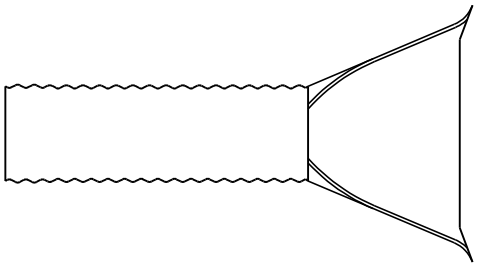
Cell Name: INLET
Descrip: PVMNT APP SLAB INLET



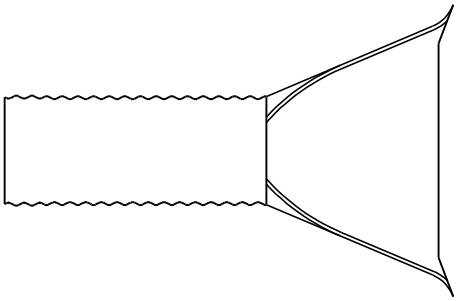
Cell Name: M12
Descrip: 12IN CORR METAL FES



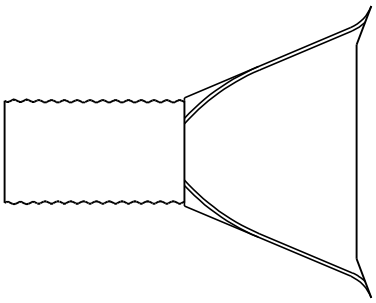
Cell Name: M15
Descrip: 15IN CORR METAL FES



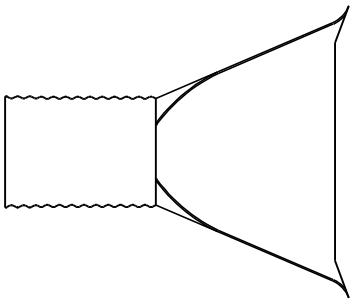
Cell Name: M18
Descrip: 18IN CORR METAL FES



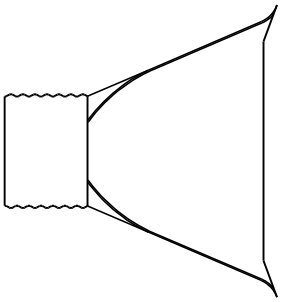
Cell Name: M21
Descrip: 21IN CORR METAL FES



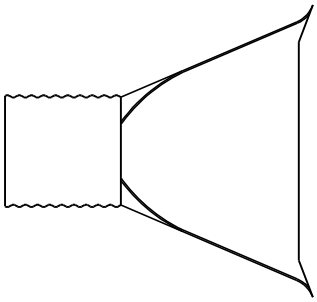
Cell Name: M24
Descrip: 24IN CORR METAL FES



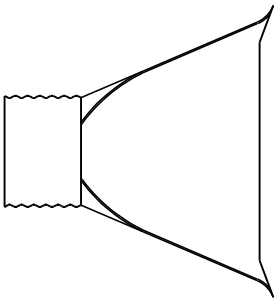
Cell Name: M30
Descrip: 30IN CORR METAL FES



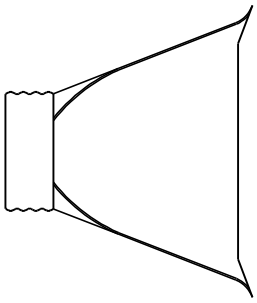
Cell Name: M36
Descrip: 36IN CORR METAL FES



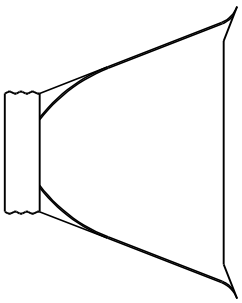
Cell Name: M42
Descrip: 42IN CORR METAL FES



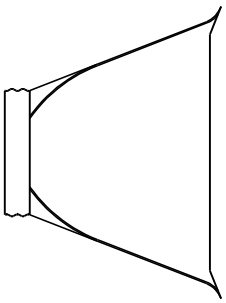
Cell Name: M48
Descrip: 48IN CORR METAL FES



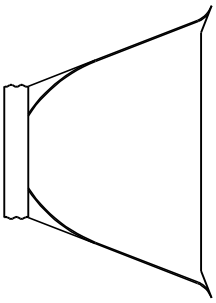
Cell Name: M54
Descrip: 54IN CORR METAL FES



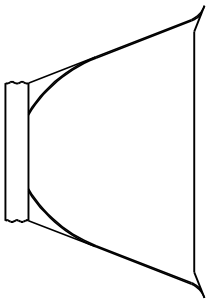
Cell Name: M60
Descrip: 60IN CORR METAL FES



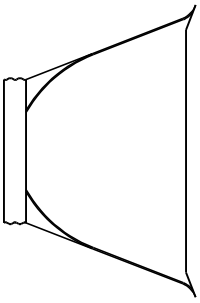
Cell Name: M66
Descrip: 66IN CORR METAL FES



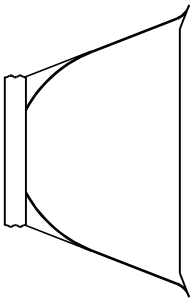
Cell Name: M72
Descrip: 72IN CORR METAL FES



Cell Name: M78
Descrip: 78IN CORR METAL FES

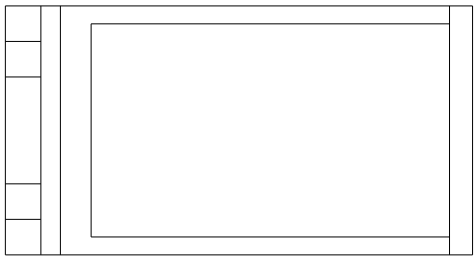


Cell Name: M84
Descrip: 84IN CORR METAL FES

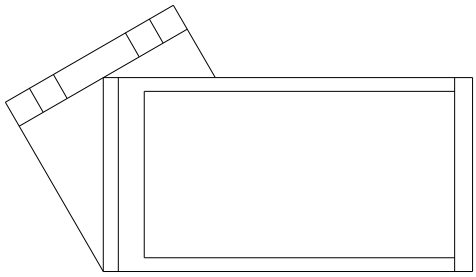


Cell Library: drain.cel

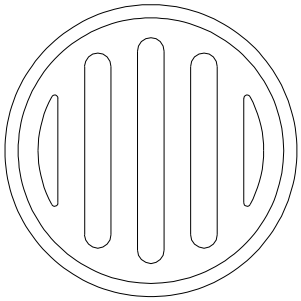
Cell Name: MD1
Descrip: MEDIAN DRAIN 1816 K TYPE A



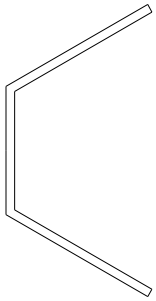
Cell Name: MD2
Descrip: MED DRN 1816 K TYPE B OR C



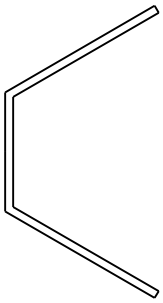
Cell Name: MD3
Descrip: EXIST MEDIAN DRAIN 1816 H



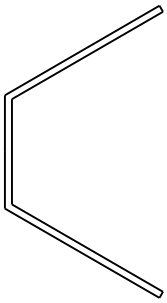
Cell Name: W10E
Descrip: EXIST WINGS FOR 10 FT BOX



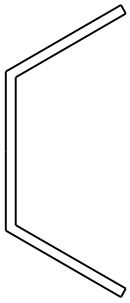
Cell Name: W10X10
Descrip: WINGS FOR 10X10 BOX



Cell Name: W10X12
Descrip: WINGS FOR 10X12 BOX

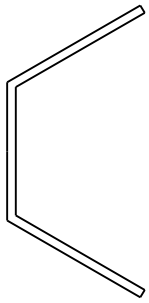


Cell Name: W10X5
Descrip: WINGS FOR 10X5 BOX

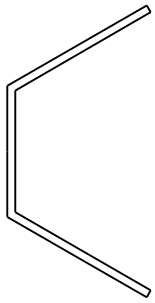


Cell Name: W10X6
Descrip: WINGS FOR 10X6 BOX

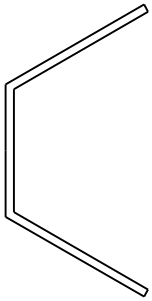
Cell Name: W10X7
Descrip: WINGS FOR 10X7 BOX



Cell Name: W10X8
Descrip: WINGS FOR 10X8 BOX

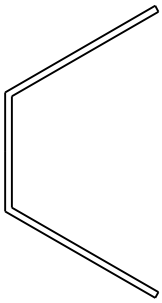


Cell Name: W10X9
Descrip: WINGS FOR 10X9 BOX

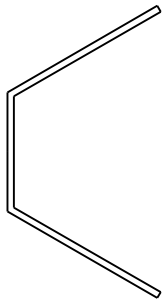


Cell Name: W12E
Descrip: EXIST WINGS FOR 12 FT BOX

Cell Name: W12X10
Descrip: WINGS FOR 12X10 BOX

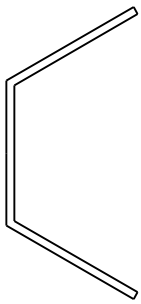


Cell Name: W12X12
Descrip: WINGS FOR 12X12 BOX

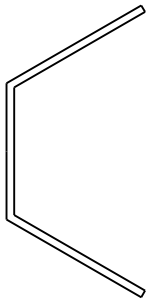


Cell Name: W12X6
Descrip: WINGS FOR 12X6 BOX

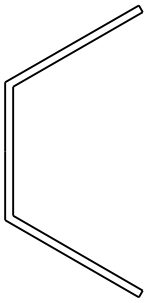
Cell Name: W12X7
Descrip: WINGS FOR 12X7 BOX



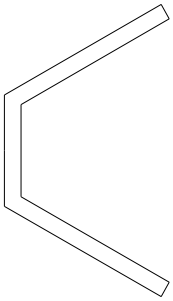
Cell Name: W12X8
Descrip: WINGS FOR 12X8 BOX



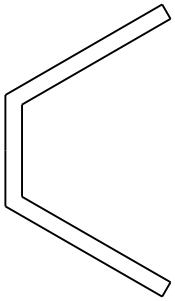
Cell Name: W12X9
Descrip: WINGS FOR 12X9 BOX



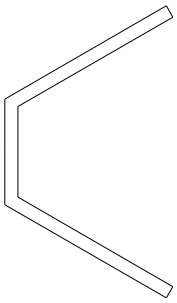
Cell Name: W4E
Descrip: EXIST WINGS FOR 4 FT BOX



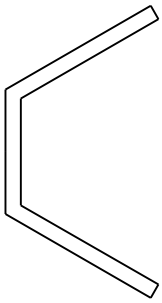
Cell Name: W4X4
Descrip: WINGS FOR 4X4 BOX



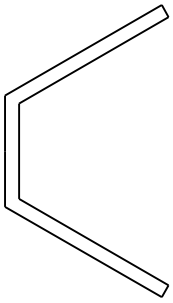
Cell Name: W5E
Descrip: EXIST WINGS FOR 5 FT BOX



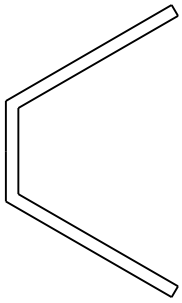
Cell Name: W5X4
Descrip: WINGS FOR 5X4 BOX



Cell Name: W5X5
Descrip: WINGS FOR 5X5 BOX

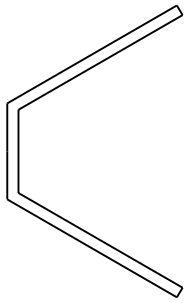


Cell Name: W5X6
Descrip: WINGS FOR 5X6 BOX

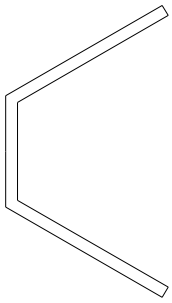


Cell Library: drain.cel

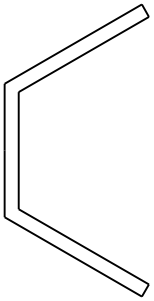
Cell Name: W5X7
Descrip: WINGS FOR 5X7 BOX



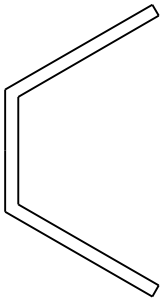
Cell Name: W6E
Descrip: EXIST WINGS FOR 6 FT BOX



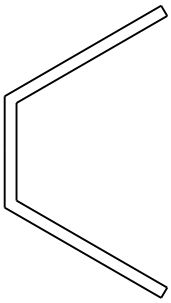
Cell Name: W6X4
Descrip: WINGS FOR 6X4 BOX



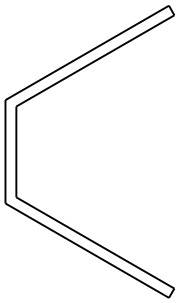
Cell Name: W6X5
Descrip: WINGS FOR 6X5 BOX



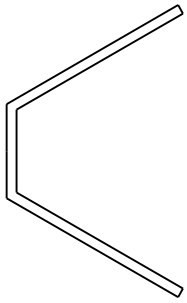
Cell Name: W6X6
Descrip: WINGS FOR 6X6 BOX



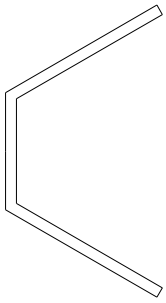
Cell Name: W6X7
Descrip: WINGS FOR 6X7 BOX



Cell Name: W6X8
Descrip: WINGS FOR 6X8 BOX

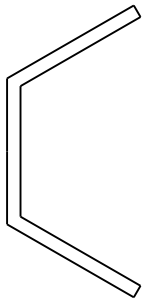


Cell Name: W7E
Descrip: EXIST WINGS FOR 7 FT BOX

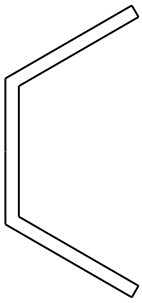


Cell Library: drain.cel

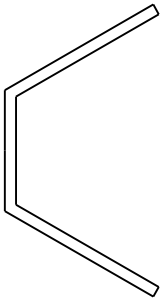
Cell Name: W7X4
Descrip: WINGS FOR 7X4 BOX



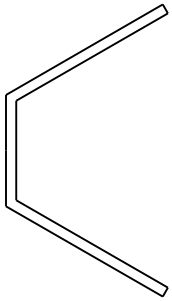
Cell Name: W7X5
Descrip: WINGS FOR 7X5 BOX



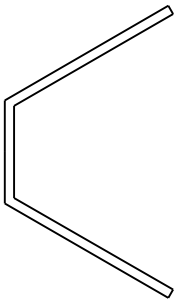
Cell Name: W7X6
Descrip: WINGS FOR 7X6 BOX



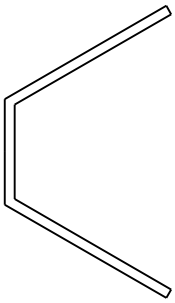
Cell Name: W7X7
Descrip: WINGS FOR 7X7 BOX



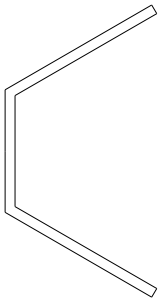
Cell Name: W7X8
Descrip: WINGS FOR 7X8 BOX



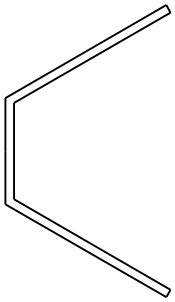
Cell Name: W7X9
Descrip: WINGS FOR 7X9 BOX



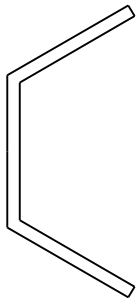
Cell Name: W8E
Descrip: EXIST WINGS FOR 8 FT BOX



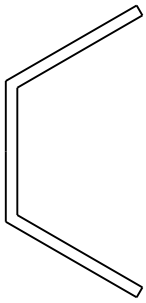
Cell Name: W8X10
Descrip: WINGS FOR 8X10 BOX



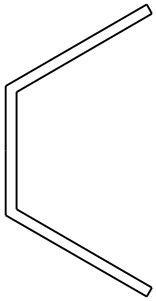
Cell Name: W8X4
Descrip: WINGS FOR 8X4 BOX



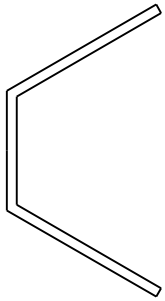
Cell Name: W8X5
Descrip: WINGS FOR 8X5 BOX



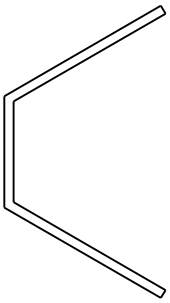
Cell Name: W8X6
Descrip: WINGS FOR 8X6 BOX



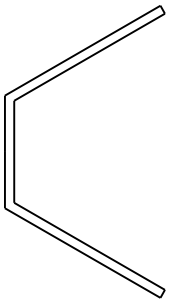
Cell Name: W8X7
Descrip: WINGS FOR 8X7 BOX



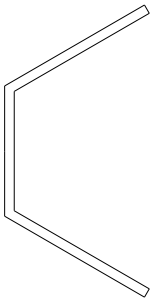
Cell Name: W8X8
Descrip: WINGS FOR 8X8 BOX



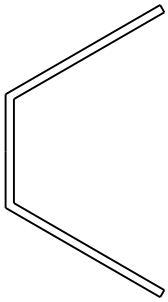
Cell Name: W8X9
Descrip: WINGS FOR 8X9 BOX



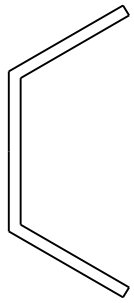
Cell Name: W9E
Descrip: EXIST WINGS FOR 9 FT BOX



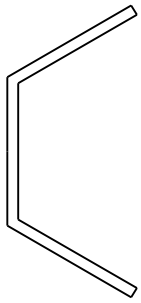
Cell Name: W9X10
Descrip: WINGS FOR 9X10 BOX



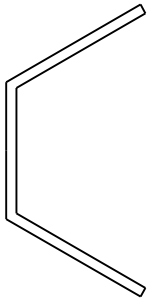
Cell Name: W9X4
Descrip: WINGS FOR 9X4 BOX



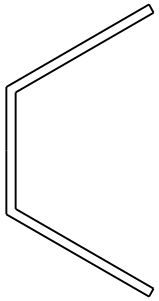
Cell Name: W9X5
Descrip: WINGS FOR 9X5 BOX



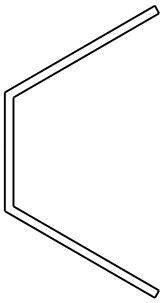
Cell Name: W9X6
Descrip: WINGS FOR 9X6 BOX



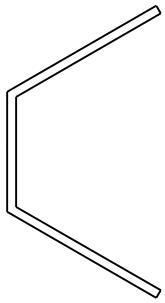
Cell Name: W9X7
Descrip: WINGS FOR 9X7 BOX



Cell Name: W9X8
Descrip: WINGS FOR 9X8 BOX



Cell Name: W9X9
Descrip: WINGS FOR 9X9 BOX



Cell Name: XSE10E
Descrip: EXIST 10IN PIPE END

Cell Name: XSE12E
Descrip: EXIST 12IN PIPE END

Cell Name: XSE15E Descrip: EXIST 15IN PIPE END	Cell Name: XSE18E Descrip: EXIST 18IN PIPE END
Cell Name: XSE24E Descrip: EXIST 24IN PIPE END	Cell Name: XSE30E Descrip: EXIST 30IN PIPE END
Cell Name: XSE36E Descrip: EXIST 36IN PIPE END	Cell Name: XSE42E Descrip: EXIST 42IN PIPE END
Cell Name: XSE48E Descrip: EXIST 48IN PIPE END	Cell Name: XSE54E Descrip: EXIST 54IN PIPE END

Cell Name: XSE60E Descrip: EXIST 60IN PIPE END	Cell Name: XSE6E Descrip: EXIST 6IN PIPE END
Cell Name: XSE72E Descrip: EXIST 72IN PIPE END	Cell Name: XSE8E Descrip: EXIST 8IN PIPE END

ROADWAY DESIGN

Nebraska Department of Roads

FLARED END SECTION

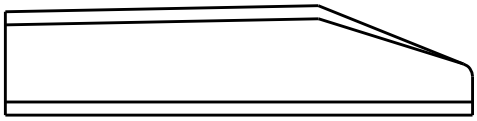
JUNE 2007

NAME OF LIBRARY = FES.CEL

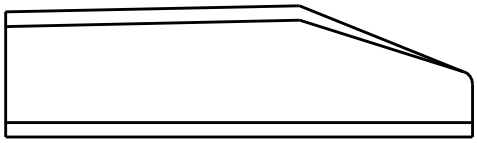
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: fes.cel

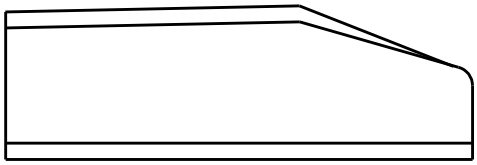
Cell Name: C12
Descrip: CONCRETE FES FOR 12 RCP



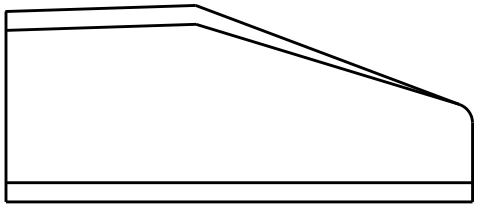
Cell Name: C15
Descrip: CONC.FES FOR 15 RCP



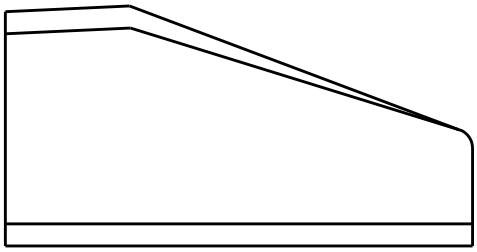
Cell Name: C18
Descrip: CONC.FES FOR 18 RCP



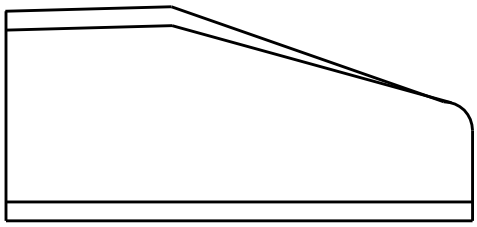
Cell Name: C24
Descrip: CONC.FES FOR 24 RCP



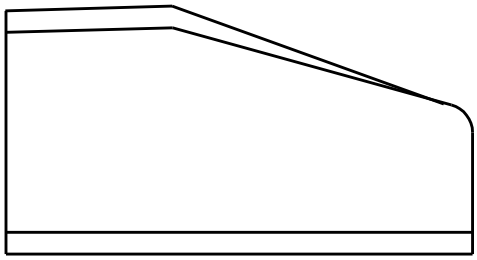
Cell Name: C30
Descrip: CONC.FES FOR 30 RCP



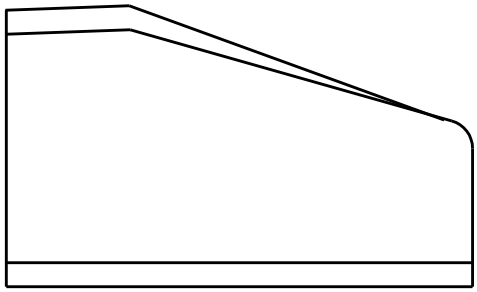
Cell Name: C36
Descrip: CONC.FES FOR 36 RCP



Cell Name: C42
Descrip: CONC.FES FOR 42 RCP

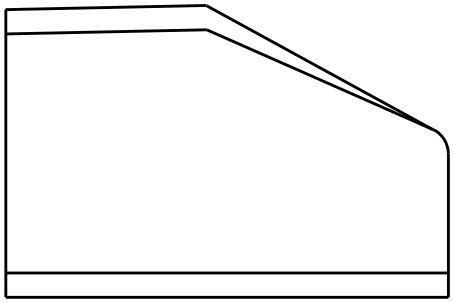


Cell Name: C48
Descrip: CONC.FES FOR 48 RCP

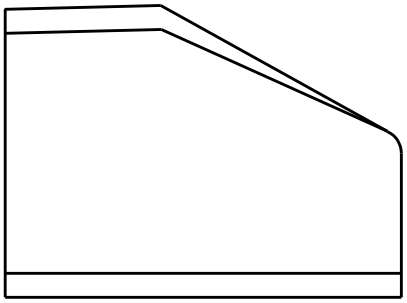


Cell Library: fes.cel

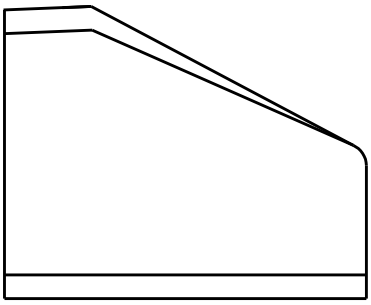
Cell Name: C54
Descrip: CONC.FES FOR 54 RCP



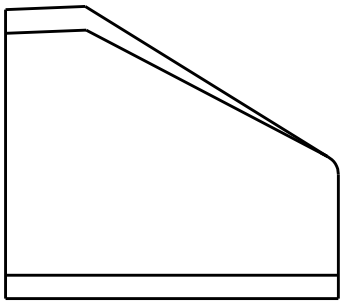
Cell Name: C60
Descrip: CONC.FES FOR 60 RCP



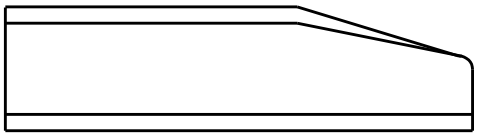
Cell Name: C66
Descrip: CONC.FES FOR 66 RCP



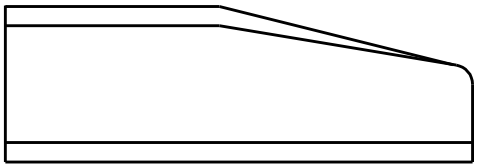
Cell Name: C72
Descrip: CONC.FES FOR 72 RCP



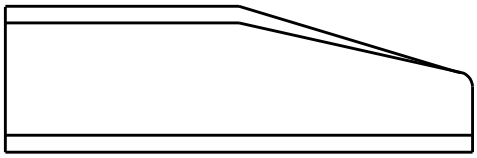
Cell Name: CA18
Descrip: CONCRETE FES FOR 18 RCP ARCH



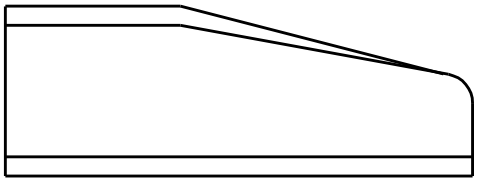
Cell Name: CA24
Descrip: CONC.FES FOR 24 RCP ARCH



Cell Name: CA30
Descrip: CONC.FES FOR 30 RCP ARCH

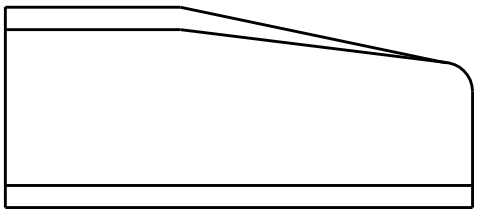


Cell Name: CA36
Descrip: CONC.FES FOR 36 RCP ARCH

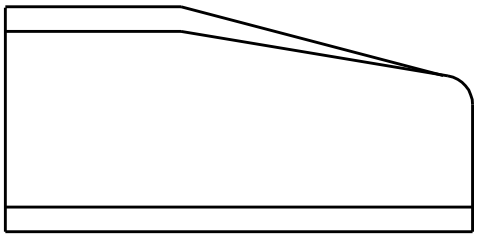


Cell Library: fes.cel

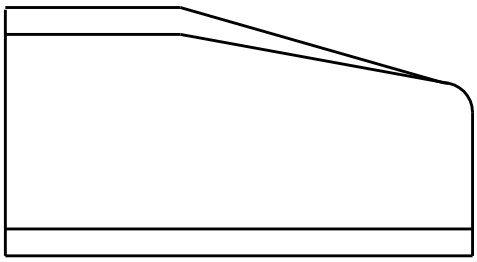
Cell Name: CA42
Descrip: CONC.FES FOR 42 RCP ARCH



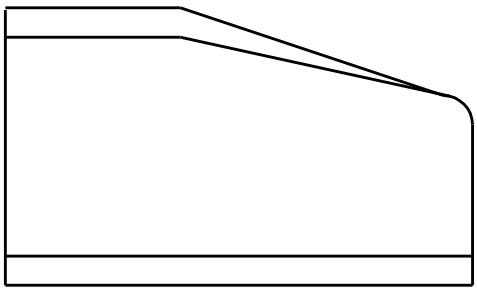
Cell Name: CA48
Descrip: CONC.FES FOR 48 RCP ARCH



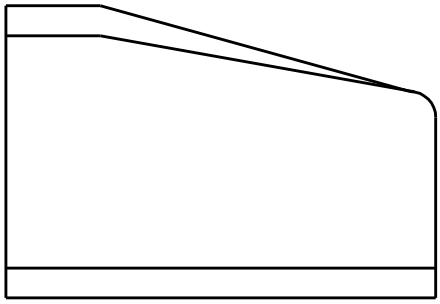
Cell Name: CA54
Descrip: CONC.FES FOR 54 RCP ARCH



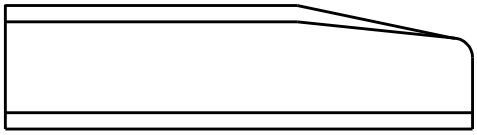
Cell Name: CA60
Descrip: CONC.FES FOR 60 RCP ARCH



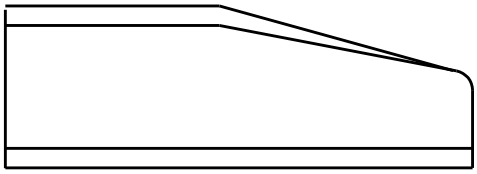
Cell Name: CA72
Descrip: CONC.FES FOR 72 RCP ARCH



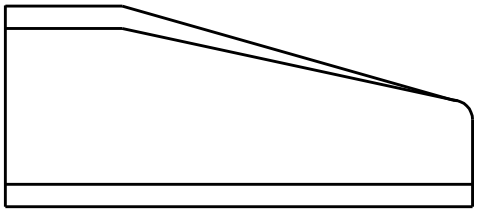
Cell Name: CE18
Descrip: CONC.FES FOR 18 RCP ELLIP.



Cell Name: CE24
Descrip: CONC.FES FOR 24 RCP ELLIP.

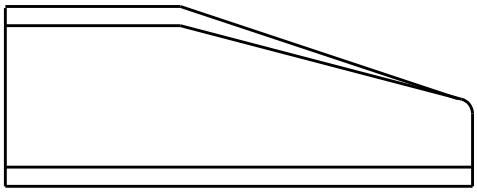


Cell Name: CE30
Descrip: CONC.FES FOR 30 RCP ELLIP.

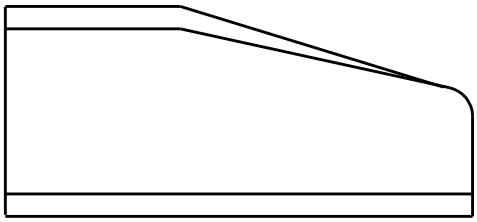


Cell Library: fes.cel

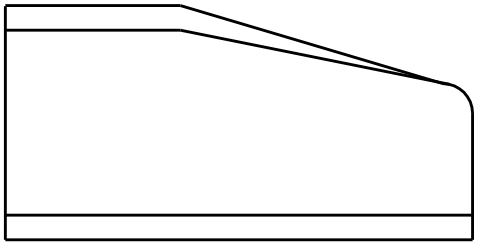
Cell Name: CE36
Descrip: CONC.FES FOR 36 RCP ELLIP.



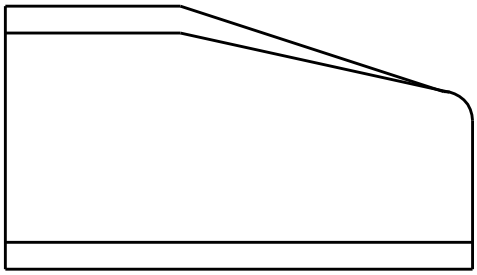
Cell Name: CE42
Descrip: CONC.FES FOR 42 RCP ELLIP.



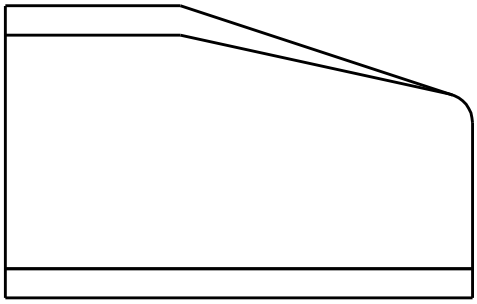
Cell Name: CE48
Descrip: CONC.FES FOR 48 RCP ELLIP.



Cell Name: CE54
Descrip: CONC.FES FOR 54 RCP ELLIP.



Cell Name: CE60
Descrip: CONC.FES FOR 60 RCP ELLIP.



Cell Name: CL
Descrip: CENTERLINE SYMBOL

Cell Name: E102E
Descrip: 102IN PIPE END

Cell Name: E108E
Descrip: 108IN PIPE END

Cell Library: fes.cel

Cell Name: E78E
Descrip: 78IN PIPE END

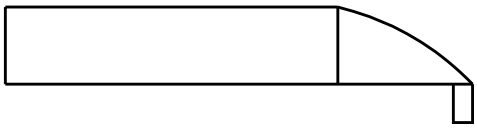
Cell Name: E84E
Descrip: 84IN PIPE END

Cell Name: E90E
Descrip: 90IN PIPE END

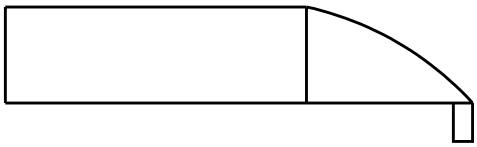
Cell Name: E96E
Descrip: 96IN PIPE END

Cell Name: FL
Descrip: FLOWLINE

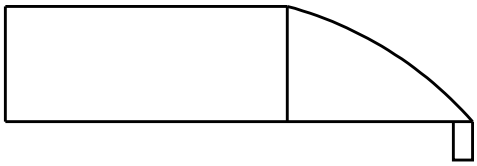
Cell Name: M12
Descrip: METAL FES FOR 12 CMP



Cell Name: M15
Descrip: METAL FES FOR 15 CMP

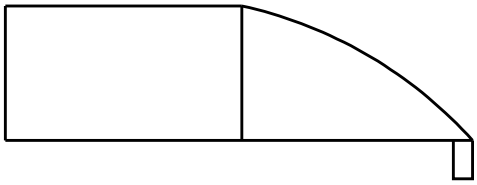


Cell Name: M18
Descrip: METAL FES FOR 18 CMP

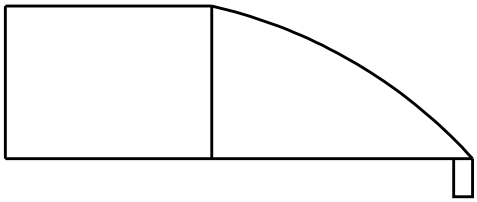


Cell Library: fes.cel

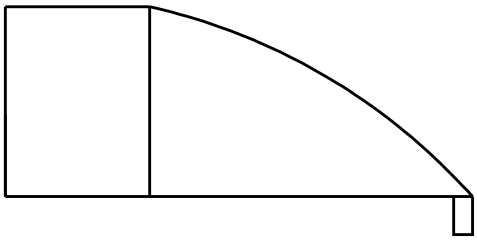
Cell Name: M21
Descrip: METAL FES FOR 21 CMP



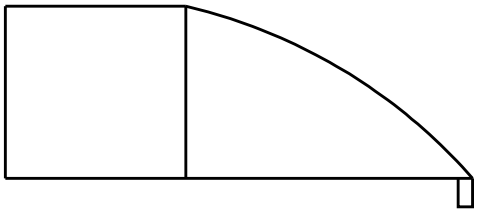
Cell Name: M24
Descrip: METAL FES FOR 24 CMP



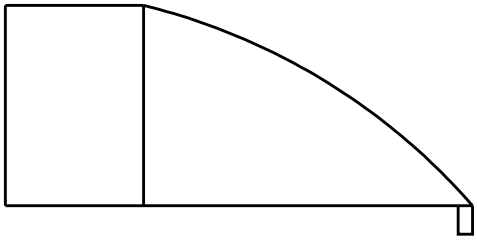
Cell Name: M30
Descrip: METAL FES FOR 30 CMP



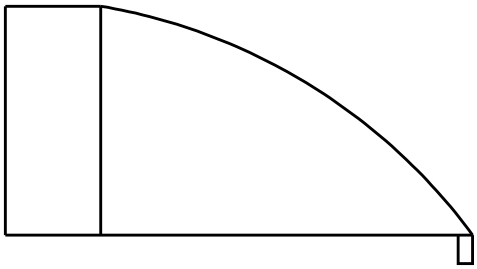
Cell Name: M36
Descrip: METAL FES FOR 36 CMP



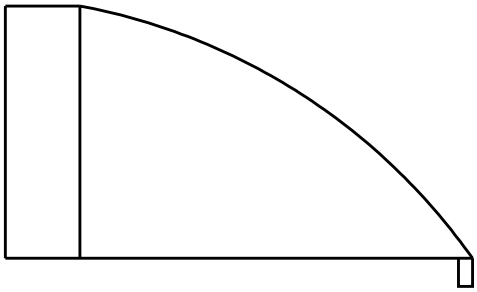
Cell Name: M42
Descrip: METAL FES FOR 42 CMP



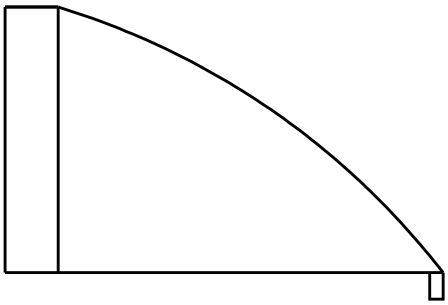
Cell Name: M48
Descrip: METAL FES FOR 48 CMP



Cell Name: M54
Descrip: METAL FES FOR 54 CMP

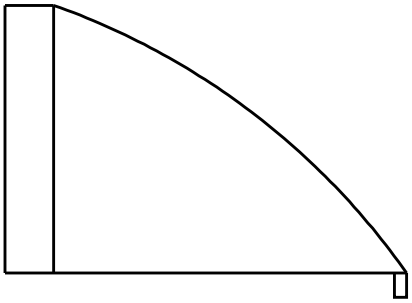


Cell Name: M60
Descrip: METAL FES FOR 60 CMP

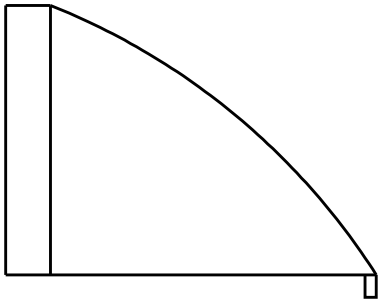


Cell Library: fes.cel

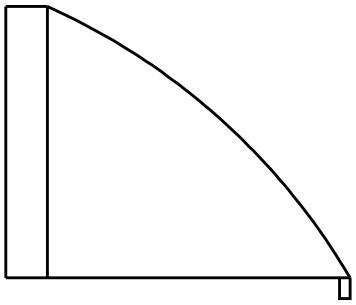
Cell Name: M66
Descrip: METAL FES FOR 66 CMP



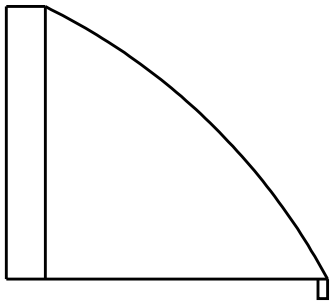
Cell Name: M72
Descrip: METAL FES FOR 72 CMP



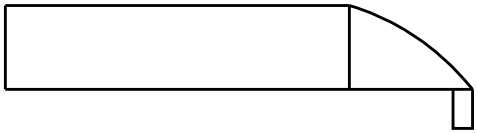
Cell Name: M78
Descrip: METAL FES FOR 78 CMP



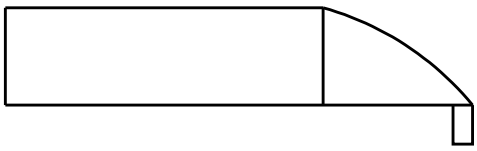
Cell Name: M84
Descrip: METAL FES FOR 84 CMP



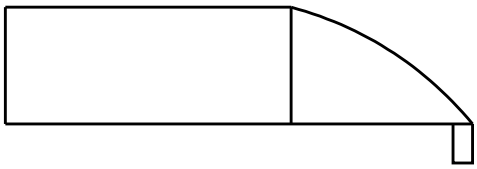
Cell Name: MA15
Descrip: METAL FES FOR 15 CMP ARCH



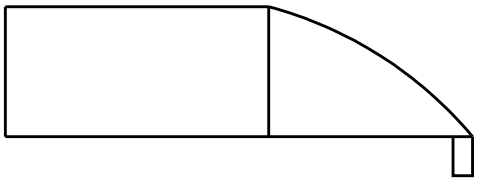
Cell Name: MA18
Descrip: METAL FES FOR 18 CMP ARCH



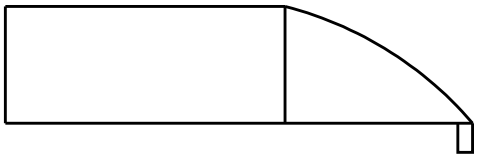
Cell Name: MA21
Descrip: METAL FES FOR 21 CMP ARCH



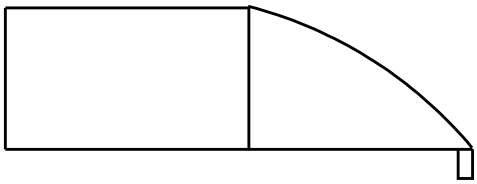
Cell Name: MA24
Descrip: METAL FES FOR 24 CMP ARCH



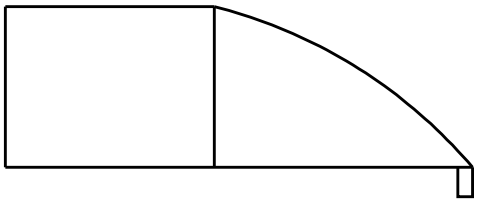
Cell Name: MA30
Descrip: METAL FES FOR 30 CMP ARCH



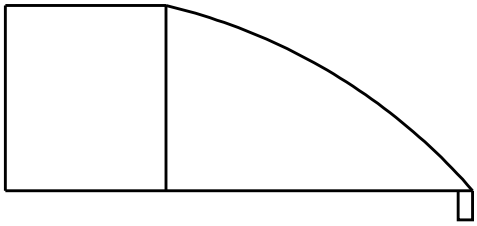
Cell Name: MA36
Descrip: METAL FES FOR 36 CMP ARCH



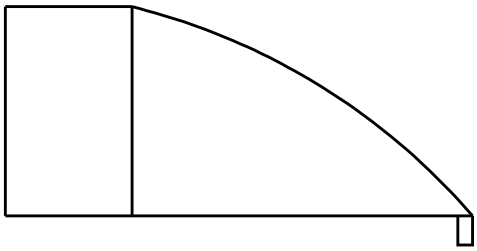
Cell Name: MA42
Descrip: METAL FES FOR 42 CMP ARCH



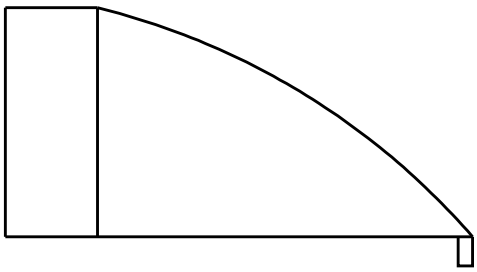
Cell Name: MA48
Descrip: METAL FES FOR 48 CMP ARCH



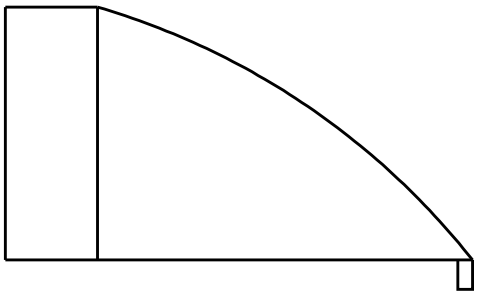
Cell Name: MA54
Descrip: METAL FES FOR 54 CMP ARCH



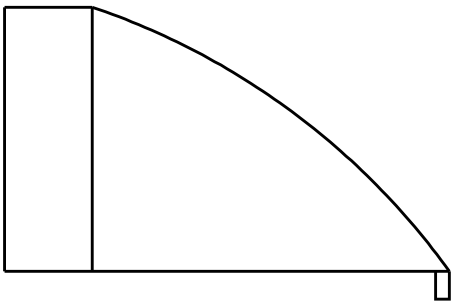
Cell Name: MA60
Descrip: METAL FES FOR 60 CMP ARCH



Cell Name: MA66
Descrip: METAL FES FOR 66 CMP ARCH



Cell Name: MA72
Descrip: METAL FES FOR 72 CMP ARCH



ROADWAY DESIGN

Nebraska Department of Roads

GUARDRAIL

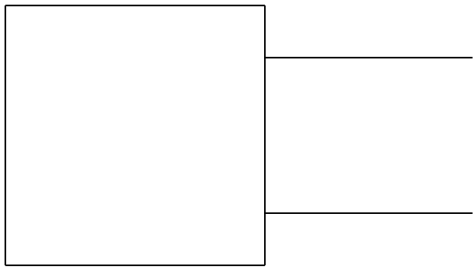
JUNE 2007

NAME OF LIBRARY = GUARD.CEL

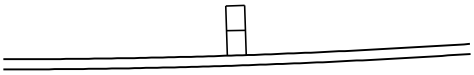
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: guard.cel

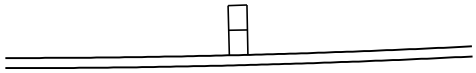
Cell Name: 10POST
Descrip: 10 X 10 TREATED TIMBER POST



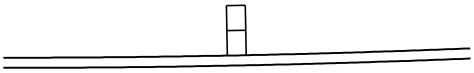
Cell Name: 190R
Descrip: 190.99 RADIUS GUARDRAIL



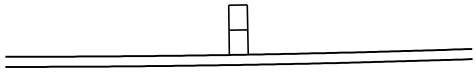
Cell Name: 250R
Descrip: 250.16 RADIUS GUARDRAIL



Cell Name: 312R
Descrip: 312.63 RADIUS GUARDRAIL

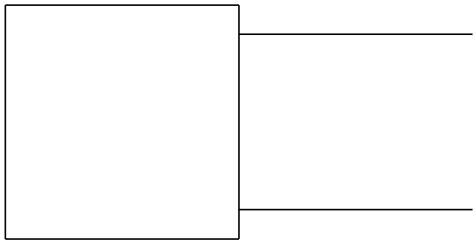


Cell Name: 375R
Descrip: 375.10 RADIUS GUARDRAIL

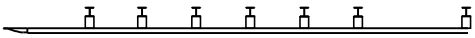


Cell Name: 5CBR
Descrip: 5 FT CONCRETE BRIDGE RAIL

Cell Name: 8POST
Descrip: 8 X 8 TREATED TIMBER POST

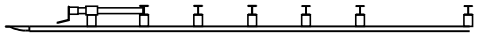


Cell Name: BAS
Descrip: BRIDGE APPROACH SECTION

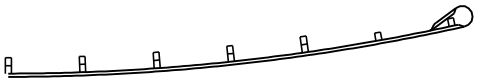


Cell Library: guard.cel

Cell Name: BASALT
Descrip: BRIDGE APPROACH SECTION ALT



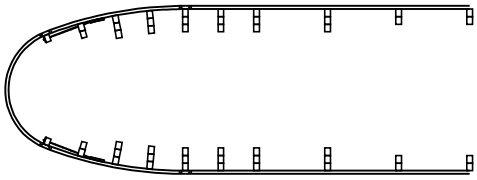
Cell Name: BCT
Descrip: BREAKAWAY CABLE TERMINATOR



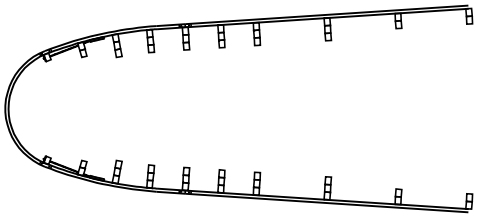
Cell Name: BEST
Descrip: 1STATE END TREATMENT

Cell Name: BESTF
Descrip: 1STATE FLARED END TREATMENT

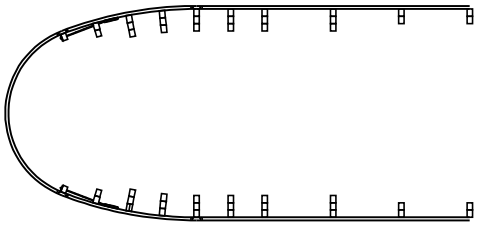
Cell Name: BN12
Descrip: 12.5 FT BULLNOSE



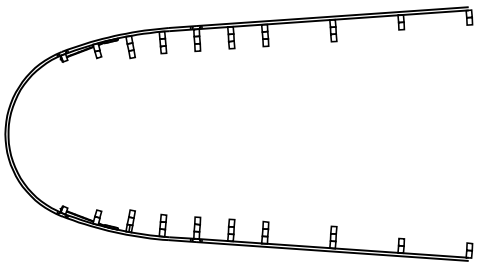
Cell Name: BN12T
Descrip: 12.5 FT BULLNOSE 15 TO 1 TAPERS



Cell Name: BN18
Descrip: 18.75 FT BULLNOSE

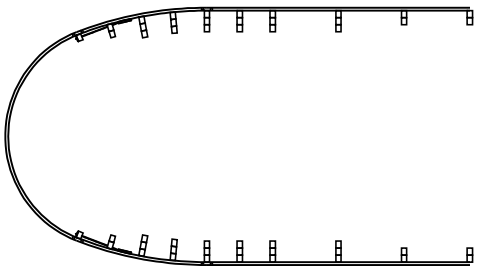


Cell Name: BN18T
Descrip: 18.75 FT BULLNOSE 15 TO 1 TAPERS

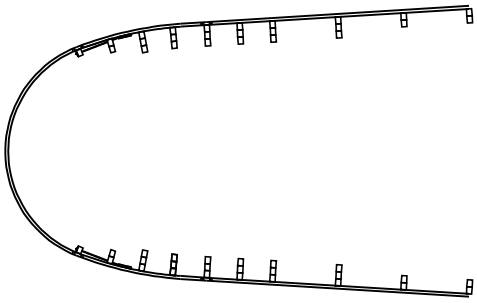


Cell Library: guard.cel

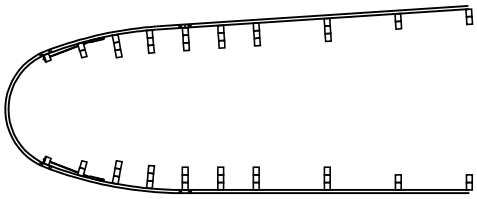
Cell Name: BN25
Descrip: 25 FT BULLNOSE



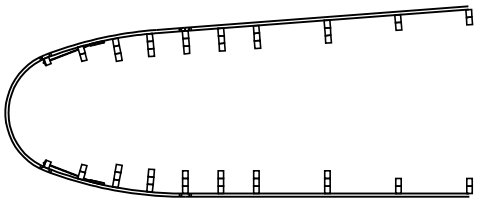
Cell Name: BN25T
Descrip: 25 FT BULLNOSE 15 TO 1 TAPERS



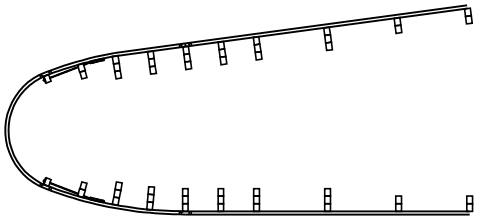
Cell Name: BNP02
Descrip: 12.5 FT BULLNOSE 15 TO 1 TAPER



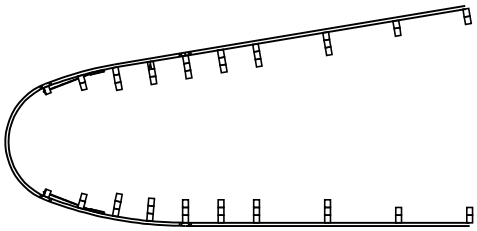
Cell Name: BNP03
Descrip: 12.5 FT BULLNOSE 13 TO 1 TAPER



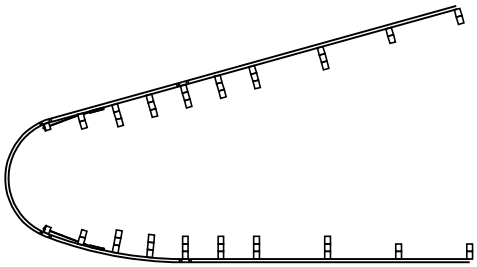
Cell Name: BNP04
Descrip: 12.5 FT BULLNOSE 7.4 TO 1 TAPER



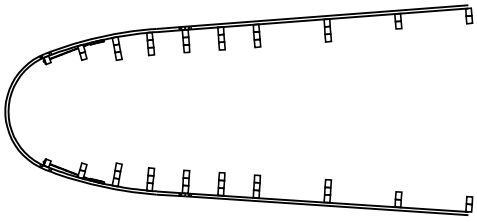
Cell Name: BNP05
Descrip: 12.5 FT BULLNOSE 6 TO 1 TAPER



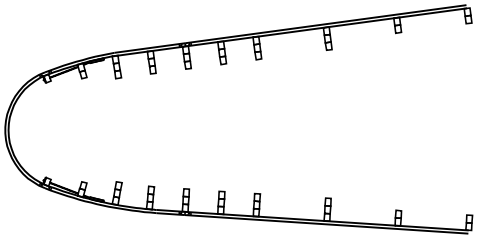
Cell Name: BNP06
Descrip: 12.5 FT BULLNOSE 3.6 TO 1 TAPER



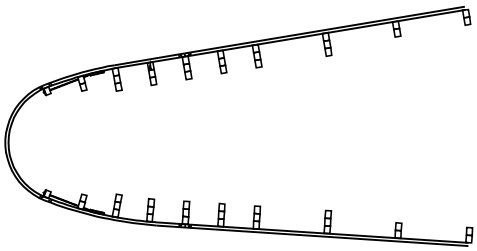
Cell Name: BNT03
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND
13 TO 1 TAPERS



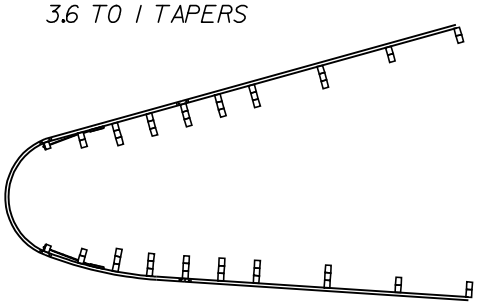
Cell Name: BNT04
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 7.4 TO 1 TAPERS



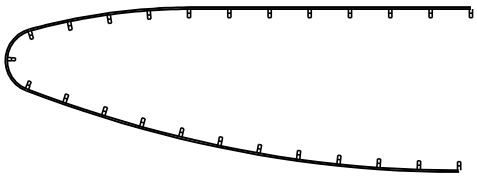
Cell Name: BNT05
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 6 TO 1 TAPERS



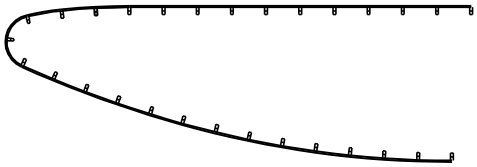
Cell Name: BNT06
Descrip: 12.5 FT BULLNOSE 15 TO 1 AND 3.6 TO 1 TAPERS



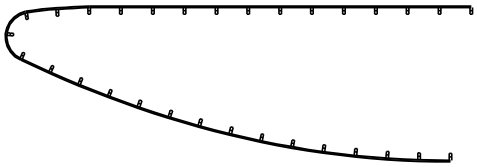
Cell Name: BULL25
Descrip: 25 FT BULLNOSE



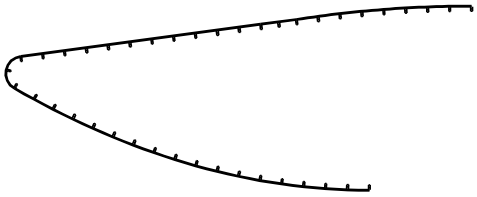
Cell Name: BULL28
Descrip: 28 FT BULLNOSE



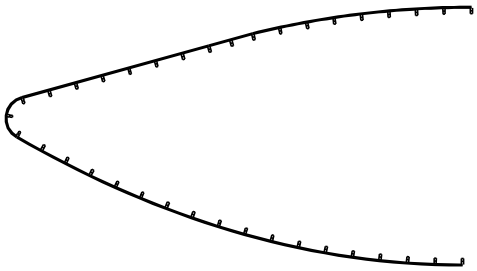
Cell Name: BULL30
Descrip: 30 FT BULLNOSE



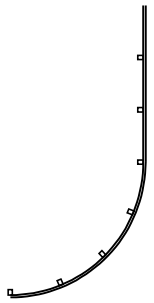
Cell Name: BULL52
Descrip: 52 FT BULLNOSE



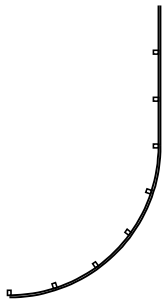
Cell Name: BULL58
Descrip: 58 FT BULLNOSE



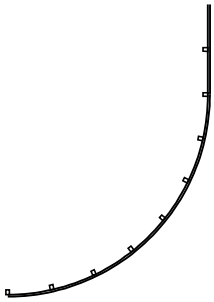
Cell Name: CRT15
Descrip: 15.92 FT RADIUS CRT



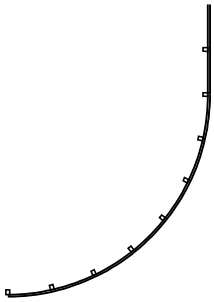
Cell Name: CRT19
Descrip: 19.89 FT RADIUS CRT



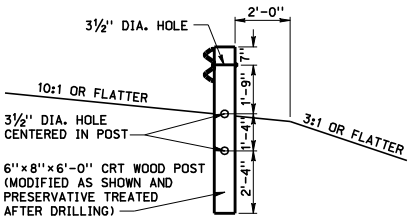
Cell Name: CRT27
Descrip: 27.85 FT RADIUS CRT



Cell Name: CRT35
Descrip: 35.81 FT RADIUS CRT

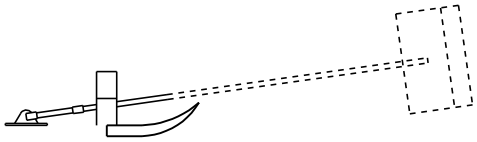


Cell Name: CRTDT
Descrip: CRT POST DETAILS

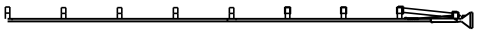


DETAIL OF CONTROLLED RELEASING
TERMINAL POST (CRT)

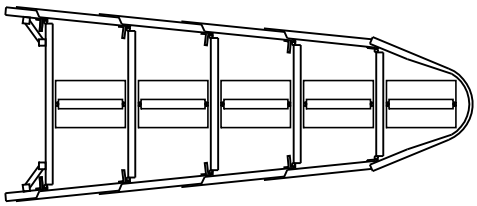
Cell Name: EAA
Descrip: END ANCHOR ASSEMBLY



Cell Name: ET2000
Descrip: SYRO END TREATMENT

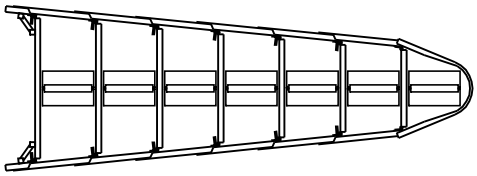


Cell Name: FLQD4S
Descrip: FLARE QUAD 4 SECTION

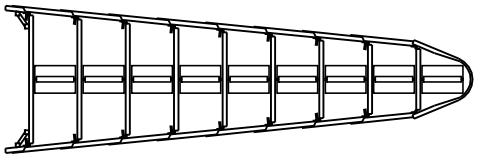


Cell Library: guard.cel

Cell Name: FLQD6S
Descrip: FLARE QUAD 6 SECTION



Cell Name: FLQD8S
Descrip: FLARE QUAD 8 SECTION

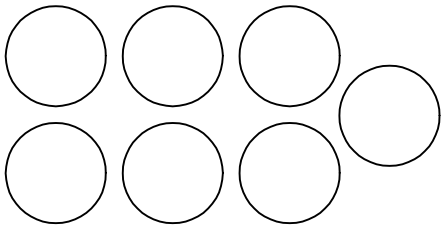


Cell Name: GLEG
Descrip: GUARDRAIL LEGEND

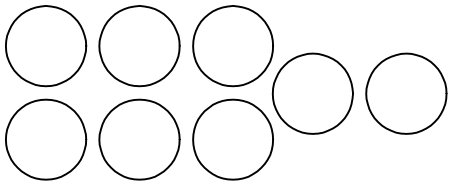
LEGEND

- (A) BRIDGE APPROACH SECTION (25'-0")
- (B) R=190.92' (TABLE "E")
- (C) END TREATMENT, TYPE II (37'-6")
- (D) SURFACING UNDER GUARDRAIL
- (E) 25'-0" NESTED GUARDRAIL (50'-0" PAY LENGTH)
- — - GRADING LINE

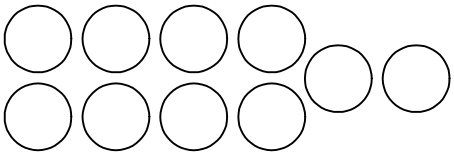
Cell Name: IB35
Descrip: INERTIAL BARRIER FOR 35 MPH



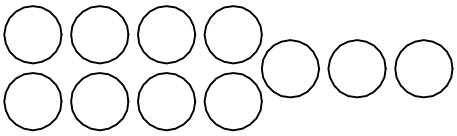
Cell Name: IB40
Descrip: INERTIAL BARRIER FOR 40 MPH



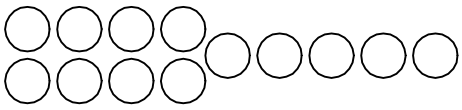
Cell Name: IB45
Descrip: INERTIAL BARRIER FOR 45 MPH



Cell Name: IB50
Descrip: INERTIAL BARRIER FOR 50 MPH

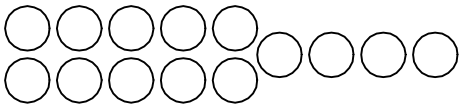


Cell Name: IB55
Descrip: INERTIAL BARRIER FOR 55 MPH

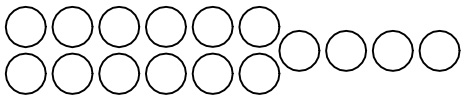


Cell Library: guard.cel

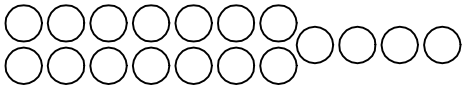
Cell Name: IB60
Descrip: INERTIAL BARRIER FOR 60 MPH



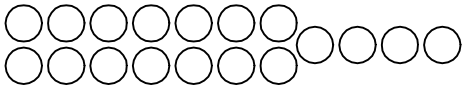
Cell Name: IB65
Descrip: INERTIAL BARRIER FOR 65 MPH



Cell Name: IB70
Descrip: INERTIAL BARRIER FOR 70 MPH

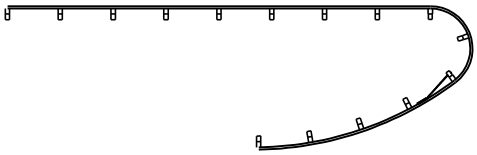


Cell Name: IB75
Descrip: INERTIAL BARRIER FOR 75 MPH

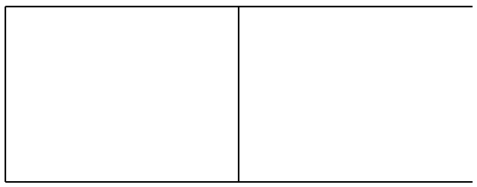


Cell Name: MELT
Descrip: MELT END TREATMENT

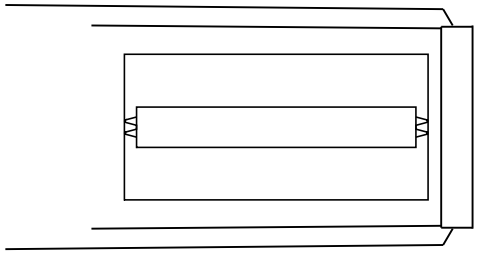
Cell Name: PIER
Descrip: PIER PROTECTION



Cell Name: POST
Descrip: 6 INCH X 8 INCH POST

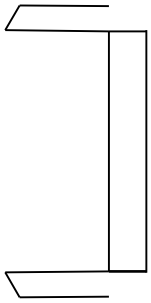


Cell Name: QD24BY
Descrip: 24 IN QUADBAY SECTION

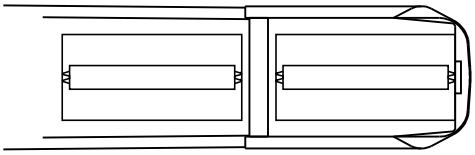


Cell Library: guard.cel

Cell Name: QD24CN
Descrip: 24 IN QUAD CONNECTION

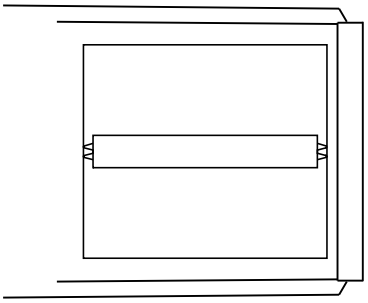


Cell Name: QD24NS
Descrip: 24 IN QUADNOSE ISEC

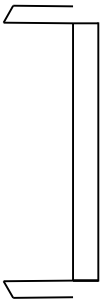


Cell Name: QD24OC
Descrip: 24 IN QUAD OFFSET CONNECTION

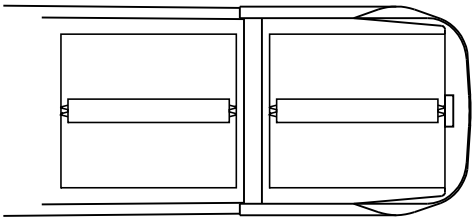
Cell Name: QD36BY
Descrip: 36 IN QUADBAY SECTION



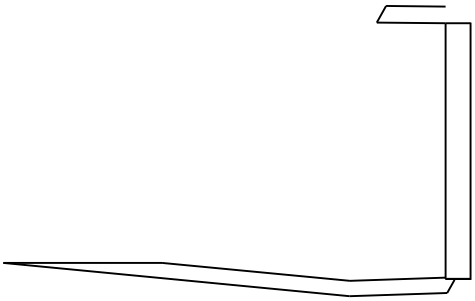
Cell Name: QD36CN
Descrip: 36 IN QUAD CONNECTION



Cell Name: QD36NS
Descrip: 36 IN QUADNOSE SECTION



Cell Name: QD36OC
Descrip: 36 IN QUAD OFFSET CONNECTION



Cell Name: RC1.5Y
Descrip: Y 1.5 REVERSED CURVE CHART

R=833.08' ARC=50.0' Y=1.5'

POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'
1	6.24'	1.27'
2	12.48'	1.34'
3	18.72'	1.46'
4	24.96'	1.62'
5	31.20'	1.84'
6	37.43'	2.09'
7	43.66'	2.40'
8	49.90'	2.75'
9	56.15'	3.10'
10	62.40'	3.40'
11	68.66'	3.66'
12	74.91'	3.87'
13	81.17'	4.04'
14	87.43'	4.16'
15	93.69'	4.23'
16	99.94'	4.25'

Cell Library: guard.cel

Cell Name: RC1Y
Descrip: Y 1 REVERSED CURVE CHART

R=702.96' ARC=37.5' Y=1.0'

POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'
1	6.24'	1.28'
2	12.48'	1.36'
3	18.71'	1.50'
4	24.95'	1.69'
5	31.18'	1.94'
6	37.42'	2.25'
7	43.67'	2.55'
8	49.93'	2.80'
9	56.19'	3.00'
10	62.45'	3.14'
11	68.71'	3.22'
12	74.97'	3.25'

Cell Name: RC2.5Y
Descrip: Y 2.5 REVERSED CURVE CHART

R=1,124.58' ARC=75.0' Y=2.5'

POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'
1	6.24'	1.27'
2	12.49'	1.32'
3	18.73'	1.41'
4	24.97'	1.53'
5	31.21'	1.68'
6	37.45'	1.87'
7	43.69'	2.10'
8	49.93'	2.36'
9	56.16'	2.65'
10	62.40'	2.98'
11	68.63'	3.35'
12	74.86'	3.75'
13	81.10'	4.18'
14	87.33'	4.61'
15	93.60'	4.84'
16	99.89'	5.14'
17	106.10'	5.40'
18	112.35'	5.62'
19	118.61'	5.82'
20	124.61'	5.97'
21	131.12'	6.09'
22	137.37'	6.18'
23	143.63'	6.23'
24	149.89'	6.25'

Cell Name: RC2Y
Descrip: Y 2 REVERSED CURVE CHART

R=976.23' ARC=62.5' Y=2.0'

POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'
1	6.24'	1.27'
2	12.48'	1.33'
3	18.72'	1.43'
4	24.97'	1.57'
5	31.20'	1.75'
6	37.44'	1.97'
7	43.68'	2.23'
8	49.91'	2.53'
9	56.15'	2.87'
10	62.38'	3.25'
11	68.63'	3.63'
12	74.88'	3.97'
13	81.12'	4.27'
14	87.38'	4.53'
15	93.63'	4.75'
16	99.89'	4.93'
17	106.14'	5.07'
18	112.40'	5.17'
19	118.66'	5.23'
20	124.91'	5.25'

Cell Name: RC3.5Y
Descrip: Y 3.5 REVERSED CURVE CHART

R=1,807.45' ARC=112.5' Y=3.5'

POST NUMBER	X DISTANCE	Y OFFSET	POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'	19	118.59'	5.13'
1	6.25'	1.26'	20	124.84'	5.48'
2	12.49'	1.29'	21	131.08'	5.82'
3	18.74'	1.35'	22	137.33'	6.13'
4	24.98'	1.42'	23	143.58'	6.42'
5	31.23'	1.52'	24	149.82'	6.69'
6	37.47'	1.64'	25	156.07'	6.94'
7	43.72'	1.78'	26	162.32'	7.17'
8	49.96'	1.94'	27	168.58'	7.37'
9	56.20'	2.12'	28	174.83'	7.56'
10	62.44'	2.33'	29	181.08'	7.72'
11	68.69'	2.56'	30	187.33'	7.86'
12	74.93'	2.80'	31	193.58'	7.98'
13	81.17'	3.07'	32	199.84'	8.08'
14	87.41'	3.37'	33	206.09'	8.15'
15	93.64'	3.68'	34	212.35'	8.21'
16	99.88'	4.01'	35	218.60'	8.24'
17	106.12'	4.37'	36	224.85'	8.25'
18	112.35'	4.75'			

Cell Name: RC3Y
Descrip: Y 3 REVERSED CURVE CHART

R=1,666.17' ARC=100.0' Y=3.0'

POST NUMBER	X DISTANCE	Y OFFSET	POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'	17	106.10'	4.61'
1	6.25'	1.26'	18	112.35'	4.95'
2	12.49'	1.30'	19	118.60'	5.27'
3	18.74'	1.36'	20	124.84'	5.56'
4	24.98'	1.44'	21	131.09'	5.83'
5	31.22'	1.54'	22	137.34'	6.08'
6	37.47'	1.67'	23	143.59'	6.30'
7	43.71'	1.82'	24	149.84'	6.50'
8	49.95'	2.00'	25	156.10'	6.68'
9	56.20'	2.20'	26	162.35'	6.83'
10	62.44'	2.42'	27	168.60'	6.96'
11	68.68'	2.68'	28	174.86'	7.06'
12	74.92'	2.94'	29	181.11'	7.14'
13	81.16'	3.23'	30	187.36'	7.20'
14	87.39'	3.54'	31	193.62'	7.24'
15	93.63'	3.88'	32	199.87'	7.25'
16	99.86'	4.25'			

Cell Name: RC4.5Y
Descrip: Y 4.5 REVERSED CURVE CHART

R=2,099.94' ARC=137.5' Y=4.5'

POST NUMBER	X DISTANCE	Y OFFSET	POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'	23	143.56'	6.15'
1	6.25'	1.26'	24	149.80'	6.53'
2	12.49'	1.29'	25	156.05'	6.89'
3	18.74'	1.33'	26	162.29'	7.24'
4	24.98'	1.40'	27	168.54'	7.56'
5	31.23'	1.49'	28	174.78'	7.87'
6	37.48'	1.58'	29	181.03'	8.16'
7	43.72'	1.70'	30	187.28'	8.43'
8	49.97'	1.84'	31	193.52'	8.68'
9	56.21'	2.00'	32	199.77'	8.91'
10	62.46'	2.18'	33	206.02'	9.12'
11	68.70'	2.37'	34	212.27'	9.32'
12	74.94'	2.59'	35	218.53'	9.50'
13	81.18'	2.82'	36	224.78'	9.65'
14	87.42'	3.07'	37	231.03'	9.79'
15	93.66'	3.34'	38	237.28'	9.91'
16	99.90'	3.63'	39	243.53'	10.02'
17	106.14'	3.94'	40	249.79'	10.10'
18	112.38'	4.26'	41	256.04'	10.17'
19	118.62'	4.60'	42	262.29'	10.21'
20	124.85'	4.97'	43	268.55'	10.24'
21	131.09'	5.35'	44	274.80'	10.25'
22	137.32'	5.75'			

Cell Name: RC4Y
Descrip: Y 4 REVERSED CURVE CHART

R=1,952.46' ARC=125.0' Y=4.0'

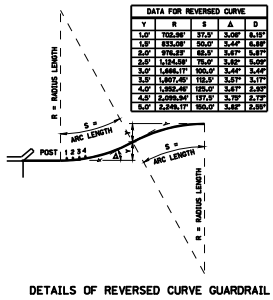
POST NUMBER	X DISTANCE	Y OFFSET	POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'	21	131.07'	5.64'
1	6.25'	1.26'	22	137.31'	6.01'
2	12.49'	1.29'	23	143.56'	6.36'
3	18.74'	1.34'	24	149.80'	6.69'
4	24.98'	1.41'	25	156.05'	7.00'
5	31.23'	1.50'	26	162.30'	7.29'
6	37.47'	1.61'	27	168.55'	7.56'
7	43.72'	1.74'	28	174.79'	7.81'
8	49.96'	1.89'	29	181.04'	8.04'
9	56.21'	2.06'	30	187.29'	8.25'
10	62.45'	2.25'	31	193.55'	8.44'
11	68.69'	2.46'	32	199.80'	8.61'
12	74.93'	2.69'	33	206.05'	8.76'
13	81.17'	2.94'	34	212.30'	8.89'
14	87.41'	3.21'	35	218.55'	9.00'
15	93.65'	3.50'	36	224.81'	9.09'
16	99.89'	3.81'	37	231.06'	9.16'
17	106.13'	4.14'	38	237.32'	9.21'
18	112.37'	4.49'	39	243.57'	9.24'
19	118.60'	4.86'	40	249.82'	9.25'
20	124.83'	5.25'			

Cell Name: RC5Y
Descrip: Y 5 REVERSED CURVE CHART

R=2,249.17' ARC=150.0' Y=5.0'

POST NUMBER	X DISTANCE	Y OFFSET	POST NUMBER	X DISTANCE	Y OFFSET
0	0	1.25'	25	156.04'	6.65'
1	6.25'	1.26'	26	162.29'	7.05'
2	12.49'	1.29'	27	168.52'	7.42'
3	18.74'	1.33'	28	174.77'	7.78'
4	24.99'	1.39'	29	181.01'	8.11'
5	31.23'	1.47'	30	187.26'	8.44'
6	37.48'	1.56'	31	193.50'	8.74'
7	43.72'	1.68'	32	199.75'	9.03'
8	49.97'	1.81'	33	206.00'	9.30'
9	56.21'	1.95'	34	212.25'	9.55'
10	62.46'	2.12'	35	218.49'	9.78'
11	68.70'	2.30'	36	224.74'	10.00'
12	74.94'	2.50'	37	230.99'	10.20'
13	81.19'	2.72'	38	237.24'	10.38'
14	87.43'	2.95'	39	243.50'	10.55'
15	93.67'	3.20'	40	249.75'	10.69'
16	99.91'	3.47'	41	256.00'	10.82'
17	106.15'	3.76'	42	262.25'	10.94'
18	112.39'	4.06'	43	268.50'	11.03'
19	118.63'	4.38'	44	274.76'	11.11'
20	124.87'	4.72'	45	281.01'	11.17'
21	131.10'	5.08'	46	287.26'	11.22'
22	137.34'	5.45'	47	293.52'	11.24'
23	143.57'	5.84'	48	299.77'	11.25'
24	149.80'	6.25'			

Cell Name: RVCVDT
Descrip: REVERSED CURVE DETAIL



DATA FOR REVERSED CURVE				
Y	R	S	Δ	D
1.0'	702.96'	37.5'	3.06°	8.15°
1.5'	833.08'	50.0'	3.44°	6.88°
2.0'	976.53'	62.5'	3.67°	5.87°
2.5'	1,124.58'	75.0'	3.82°	5.09°
3.0'	1,666.11'	100.0'	3.44°	3.44°
3.5'	1,807.45'	112.5'	3.57°	3.17°
4.0'	1,952.49'	125.0'	3.67°	2.93°
4.5'	2,096.94'	137.5'	3.75°	2.73°
5.0'	2,240.17'	150.0'	3.82°	2.55°

DETAILS OF REVERSED CURVE GUARDRAIL

Cell Name: SRT350
Descrip: SLOTTED RAIL 350

Cell Name: SRT75
Descrip: SLOTTED RAIL 75

Cell Name: TAS
Descrip: TERMINAL ANCHOR SECTION

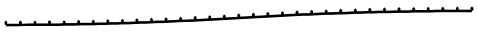
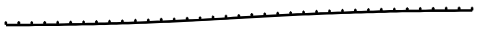
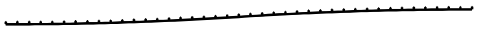
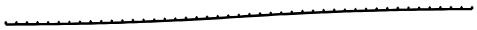
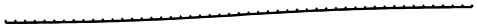
Cell Name: Y1.0
Descrip: Y 1.0 REVERSED CURVE SECTION

Cell Name: Y1.5
Descrip: Y 1.5 REVERSED CURVE SECTION

Cell Name: Y2.0
Descrip: Y 2.0 REVERSED CURVE SECTION

Cell Name: Y2.5
Descrip: Y 2.5 REVERSED CURVE SECTION

Cell Library: guard.cel

Cell Name: Y3.0 Descrip: Y 3.0 REVERSED CURVE SECTION 	Cell Name: Y3.5 Descrip: Y 3.5 REVERSED CURVE SECTION 
Cell Name: Y4.0 Descrip: Y 4.0 REVERSED CURVE SECTION 	Cell Name: Y4.5 Descrip: Y 4.5 REVERSED CURVE SECTION 
Cell Name: Y5.0 Descrip: Y 5.0 REVERSED CURVE SECTION 	

ROADWAY DESIGN

Nebraska Department of Roads

LIGHTING

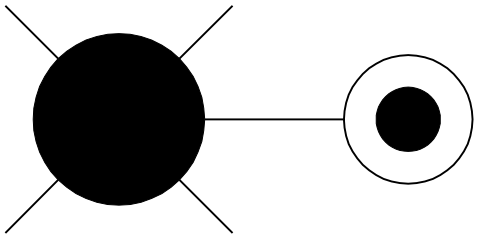
JUNE 2007

NAME OF LIBRARY = LIGHT.CEL

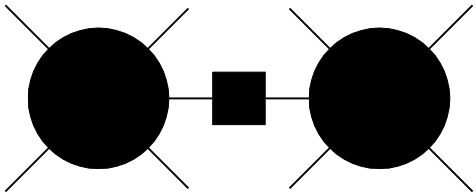
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: light.cel

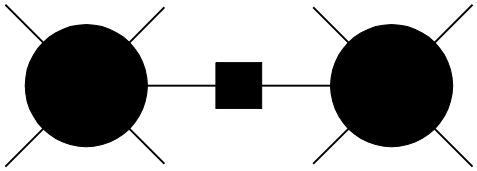
Cell Name: CP
Descrip: COMBINATION POLE



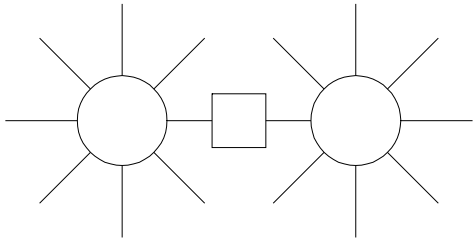
Cell Name: DLU4
Descrip: DOUBLE 4 FT MAST ARM



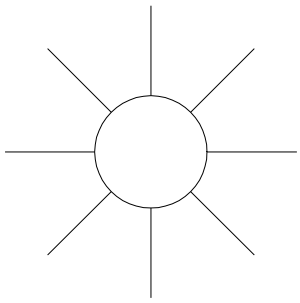
Cell Name: DLU6
Descrip: DOUBLE 6 FT MAST ARM



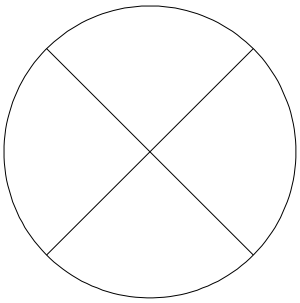
Cell Name: EDLU
Descrip: EXISTING DOUBLE LUMINAIRE



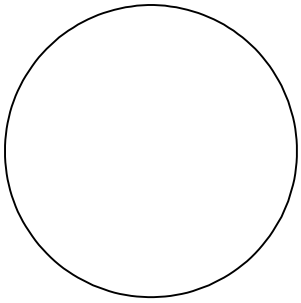
Cell Name: ELU
Descrip: EXISTING LUMINAIRE



Cell Name: EPB
Descrip: EXISTING PULL BOX



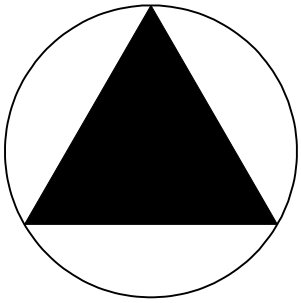
Cell Name: ESL
Descrip: ELECTRICAL SERVICE LOCATION



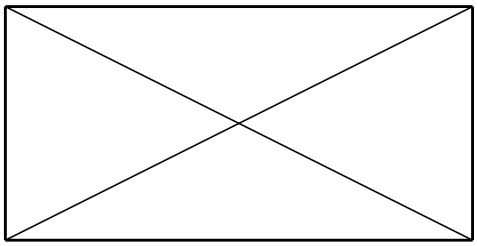
Cell Name: EULU
Descrip: EXISTING UNDRPASS LUMINAIRE

Cell Library: light.cel

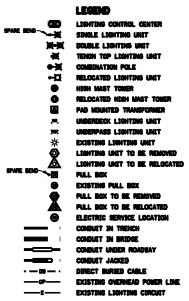
Cell Name: HMLU
Descrip: HIGH MAST LIGHT UNIT



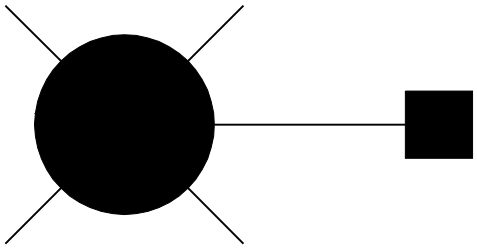
Cell Name: LCC
Descrip: LIGHT CONTROL CENTER



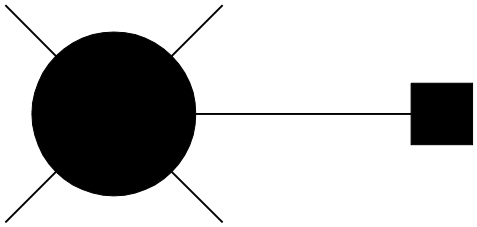
Cell Name: LLEG
Descrip: LIGHTING LEGEND



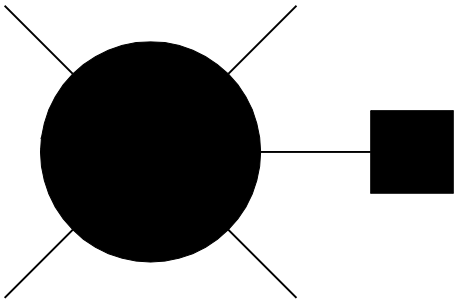
Cell Name: LU10
Descrip: LIGHT 10 FT MAST ARM



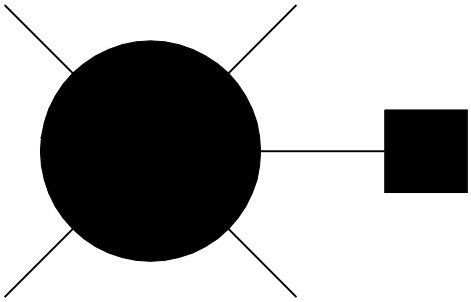
Cell Name: LU12
Descrip: LIGHT 12 FT MAST ARM



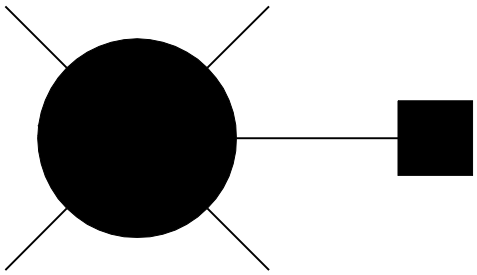
Cell Name: LU4
Descrip: LIGHT 4 FT MAST ARM



Cell Name: LU6
Descrip: LIGHT 6 FT MAST ARM

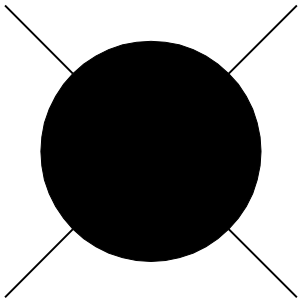


Cell Name: LU8
Descrip: LIGHT 8 FT MAST ARM

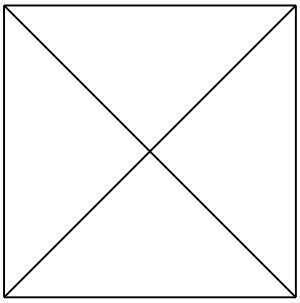


Cell Library: light.cel

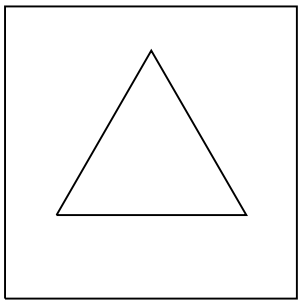
Cell Name: LUY
Descrip: YOKE MOUNTETD LIGHT UNIT



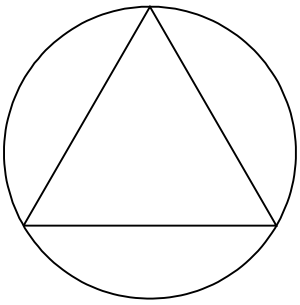
Cell Name: PB
Descrip: PULL BOX



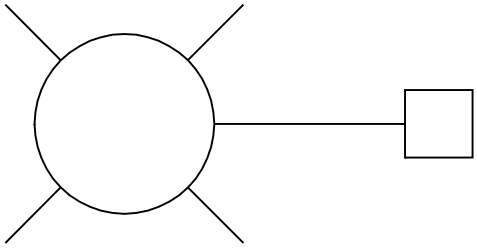
Cell Name: PMT
Descrip: PAD MOUNTED TRANSFORMER



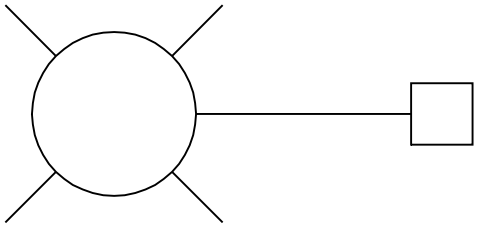
Cell Name: RHMT
Descrip: RELOCATED HIGH MAST UNIT



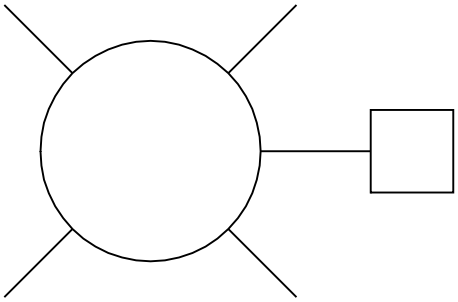
Cell Name: RLU10
Descrip: RELOCATED 10 FT MAST ARM



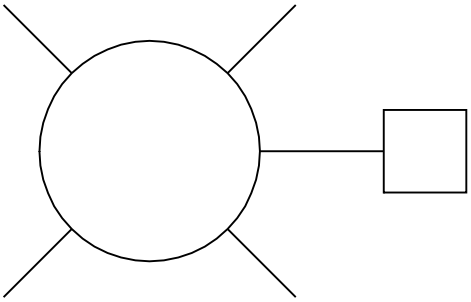
Cell Name: RLU12
Descrip: RELOCATED 12 FT MAST ARM



Cell Name: RLU4
Descrip: RELOCATED 4 FT MAST ARM

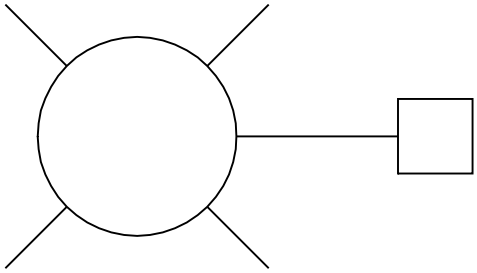


Cell Name: RLU6
Descrip: RELOCATED 6 FT MAST ARM

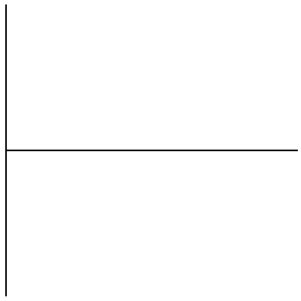


Cell Library: light.cel

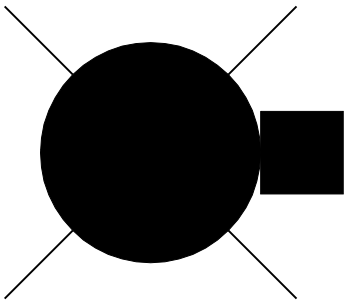
Cell Name: RLU8
Descrip: RELOCATED 8 FT MAST ARM



Cell Name: SPARE BEND
Descrip: SPARE BEND

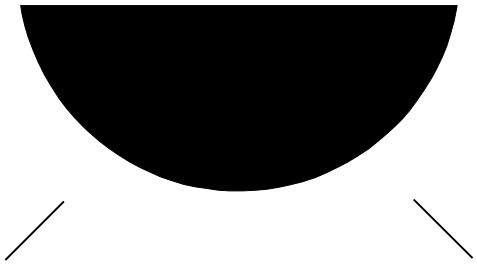


Cell Name: TTLU
Descrip: TENON TOP LIGHT UNIT

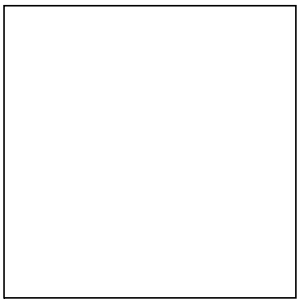


Cell Name: UDLU
Descrip: UNDERDECK LIGHT UNIT

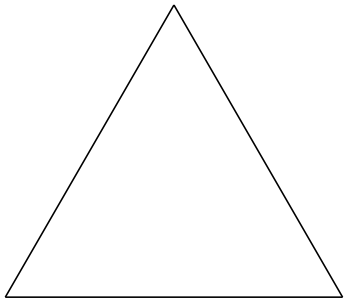
Cell Name: UPLU
Descrip: UNDERPASS LIGHT UNIT



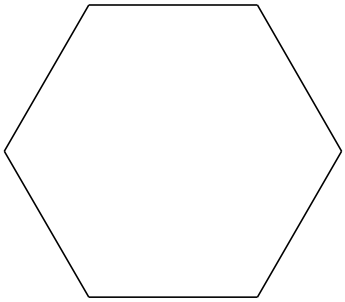
Cell Name: UREIN
Descrip: UNIT TO BE REMOVED AND REINSTALLED



Cell Name: UREL
Descrip: UNIT TO BE RELOCATED



Cell Name: UREM
Descrip: UNIT TO BE REMOVED



ROADWAY DESIGN

Nebraska Department of Roads

MASTER

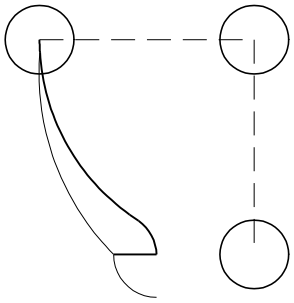
JUNE 2007

NAME OF LIBRARY = MAST.CEL

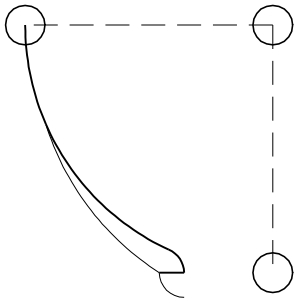
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: mast.cel

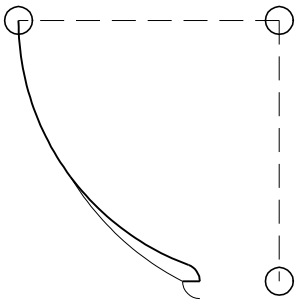
Cell Name: 05DR
Descrip: 5 FT RADIUS TAPERED CURB



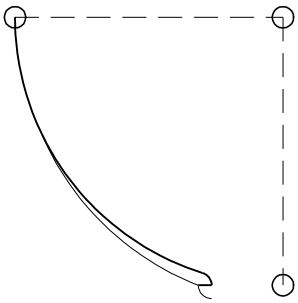
Cell Name: 10DR
Descrip: 10 FT RADIUS TAPERED CURB



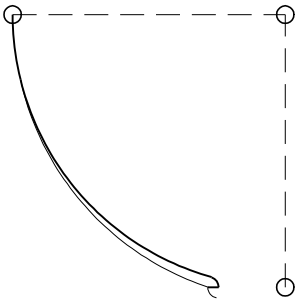
Cell Name: 15DR
Descrip: 15 FT RADIUS TAPERED CURB



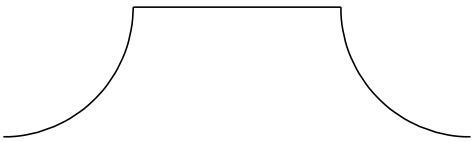
Cell Name: 20DR
Descrip: 20 FT RADIUS TAPERED CURB



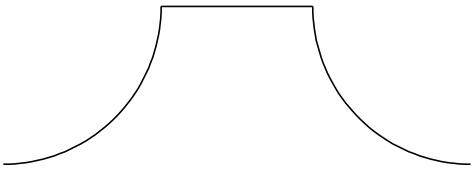
Cell Name: 25DR
Descrip: 25 FT RADIUS TAPERED CURB



Cell Name: ADR15
Descrip: 15 FT RADIUS ASPH DRIVE



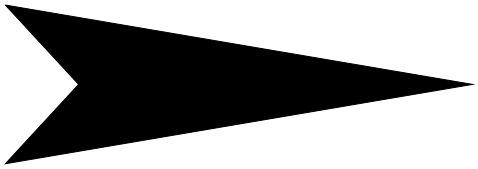
Cell Name: ADR25
Descrip: 25 FT RADIUS ASPH DRIVE



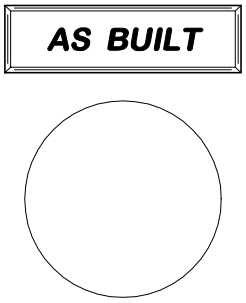
Cell Name: APP
Descrip: AS PER PLAN STAMP

AS PER PLAN

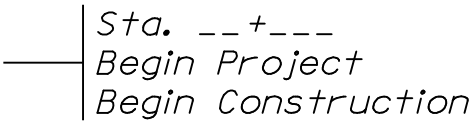
Cell Name: ARROW
Descrip: ARROW LINE TERMINATOR



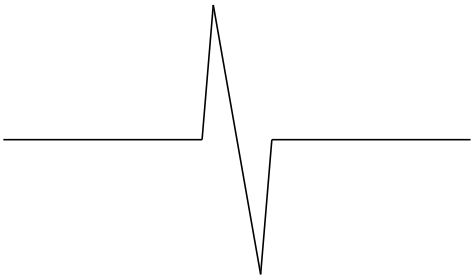
Cell Name: ASB
Descrip: AS BUILT STAMP GUIDE



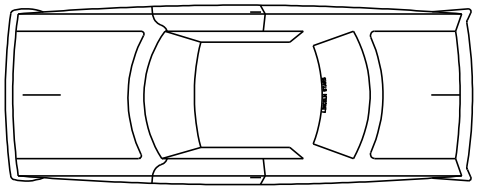
Cell Name: BEGPRO
Descrip: BEGIN PROJECT NOTE



Cell Name: BRKLIN
Descrip: BREAKLINE SYMBOL



Cell Name: CAR
Descrip: CAR 2 DOOR FORD LTD



Cell Name: CBTERM
Descrip: CONCRETE BARRIER TERMINAL

Cell Name: CHECK
Descrip: HAYBALE DITCH EROSION CHECK

Cell Name: CLIMIT
Descrip: CORPORATE LIMIT SYMBOL

Cell Name: DAT1
Descrip: DATUM INFORMATION NEW PROJECT

DATUM INFORMATION

HORIZONTAL	VERTICAL
NAD 83 (1995)	NAVD 88

D.A.F. =

Cell Name: DAT2
Descrip: DATUM INFORMATION OLD PROJECT

DATUM INFORMATION

HORIZONTAL	VERTICAL
NAD 27	NGVD 29

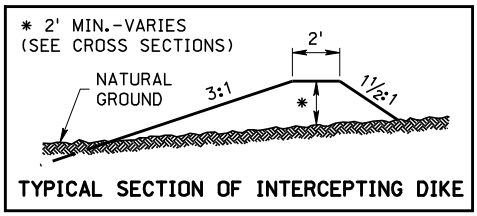
D.A.F. =

Cell Name: DE
Descrip: DATUM ELEVATION TEXT

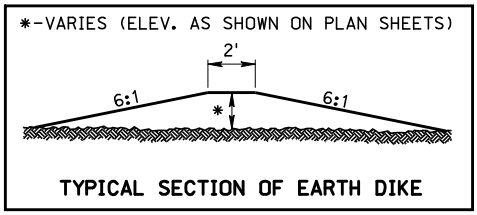
Datum Elev. = *.00 ft Above Sea Level U.S.C.& G.S.

B.M. #1 S.F.P. By Power Pole
Sta. 0+00 Elev. = 0000.00

Cell Name: DIKE
Descrip: INTERCEPTING DIKE TYPICAL

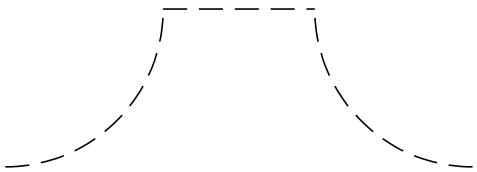


Cell Name: EDIKE
Descrip: EARTH DIKE TYPICAL



Cell Name: EDR15
Descrip: 15 FT RADIUS EARTH DRIVE

Cell Name: EDR25
Descrip: 25 FT RADIUS EARTH DRIVE



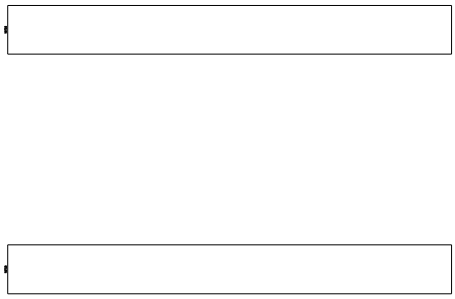
Cell Name: ENDPRO
Descrip: END PROJECT NOTE

Sta. __+___
End Project
End Construction

Cell Library: mast.cel

Cell Name: G2L
Descrip: GUIDE FOR 2L SHEET

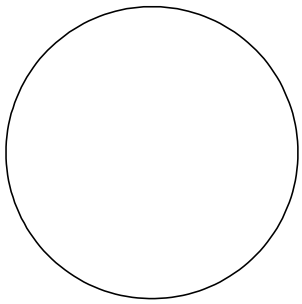
Cell Name: G2LI
Descrip: GUIDE FOR 2LI SHEET



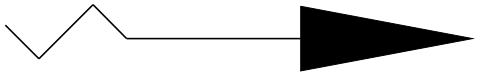
Cell Name: GEOINF
Descrip: CURVE DATA

P.I. * STA. *
△ = *
D = *
T = *'
L = *'
R = *'
P.C. * STA. *
P.T. * STA. *

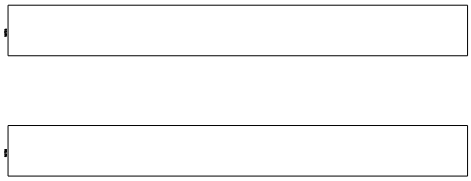
Cell Name: GPKI
Descrip: GEOPAK LIMITS CIRCLE



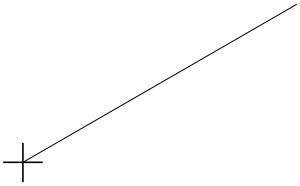
Cell Name: GPK2
Descrip: GEOPAK DITCH ARROW



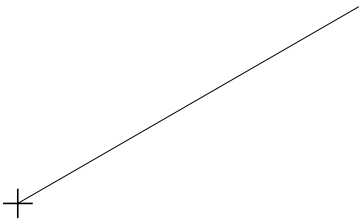
Cell Name: GPP
Descrip: GUIDE FOR PLAN AND PROFILE SHEEET



Cell Name: GRL
Descrip: GRADE LINE LEFT

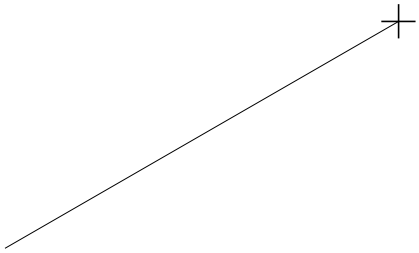


Cell Name: GRLL
Descrip: GRADE LINE LONG LEFT

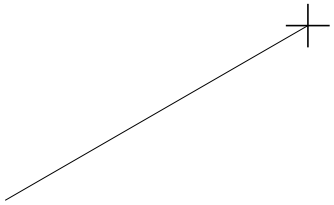


Cell Library: mast.cel

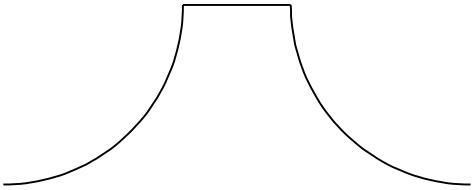
Cell Name: GRLR
Descrip: GRADE LINE LONG RIGHT



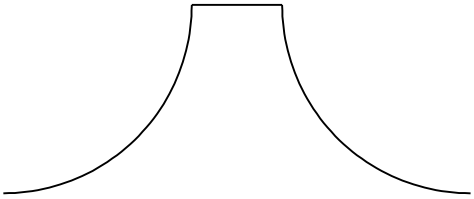
Cell Name: GRR
Descrip: GRADE LINE RIGHT



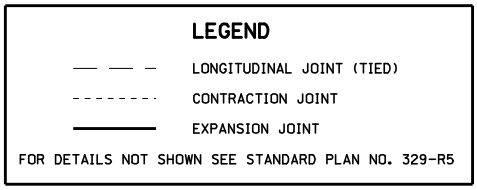
Cell Name: INT40
Descrip: 40 FT RADIUS INTERSECTION



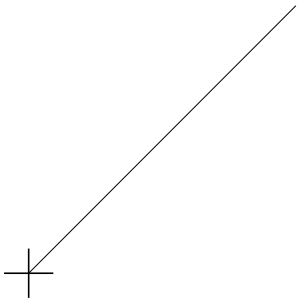
Cell Name: INT50
Descrip: 50 FT RADIUS INTERSECTION



Cell Name: JNTLEG
Descrip: 2L JOINT SHEET LEGEND

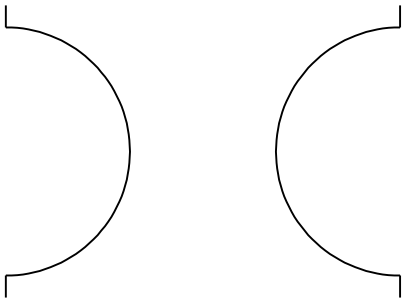


Cell Name: LINE45
Descrip: 45 DEGREE GRADE LINE



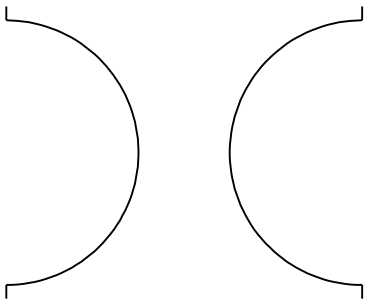
Cell Name: LTERM
Descrip: TERMINATOR FOR BOXED NOTE

Cell Name: MT340
Descrip: 3 FT SHOULDER MAINTENANCE TURNAROUND

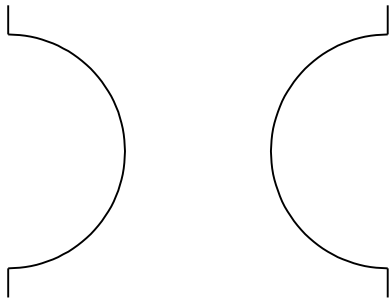


Cell Library: mast.cel

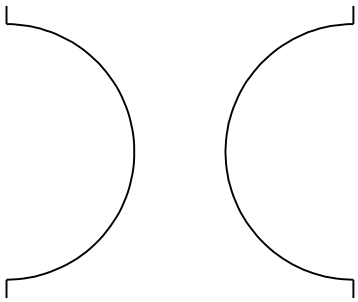
Cell Name: MT364
Descrip: 64 FT MEDIAN MAINTENANCE TURNAROUND



Cell Name: MT440
Descrip: 40 FT MEDIAN MAINTENANCE TURNAROUND



Cell Name: MT464
Descrip: 64 FT MEDIAN MAINTENANCE TURNAROUND

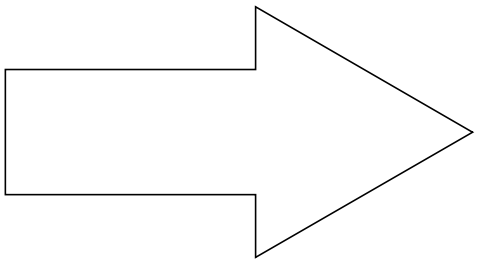


Cell Name: MX040
Descrip: 40 FT MEDIAN CROSSOVER

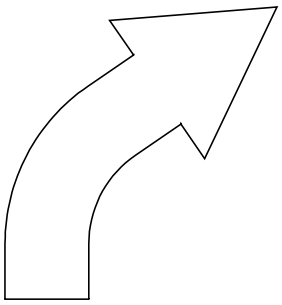
Cell Name: MX064
Descrip: 60 FT MEDIAN CROSSOVER

Cell Name: NA
Descrip: NORTH ARROW FOR PLAN SHEETS

Cell Name: OPNARW
Descrip: OPEN ARROW

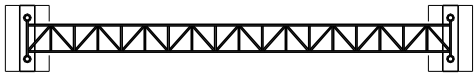


Cell Name: OPNCAR
Descrip: OPEN CURVED ARROW

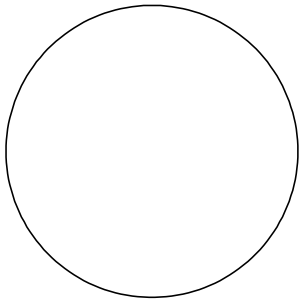


Cell Library: mast.cel

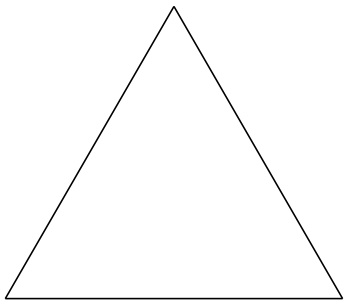
Cell Name: OSS
Descrip: OVERHEAD SIGN SUPPORT



Cell Name: PC
Descrip: PC OR PT SYMBOL



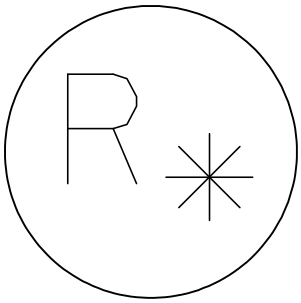
Cell Name: PI
Descrip: PI SYMBOL



Cell Name: PNF
Descrip: PLAN NOT FINAL STAMP

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE

Cell Name: REV
Descrip: REVISION CIRCLE



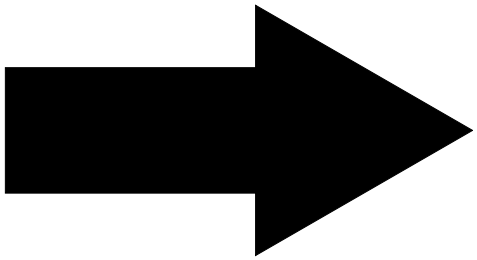
Cell Name: REVNT
Descrip: REVISION NOTE

The Original Sheet was Signed
and Dated: mm-dd-yy

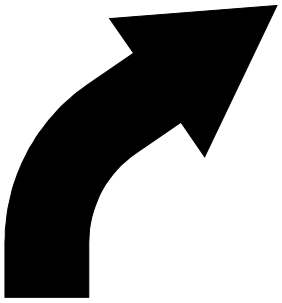
Cell Name: RRD
Descrip: RAILROAD DISPLAY LV14

Cell Name: SECLN
Descrip: SECTION LINE

Cell Name: SOLARW
Descrip: SOLID ARROW



Cell Name: SOLCAR
Descrip: SOLID CURVED ARROW



Cell Name: SP
Descrip: TEXT FOR SPECIAL PLAN C

SHEET * OF *

SPECIAL PLAN C

Cell Name: SPRINF
Descrip: SPIRAL CURVE DATA

P.I. STA. * "*" =
* RT. STA. * "*"
Δ = *
T = *
Δ_c = 0°00'00.00" RT.
D_c = 0°00'00.00"
L_c = *
θ_s = *
L_s = *
L_t = *
S_t = *
E = *
T.S. STA. *
S.C. STA. *
C.S. STA. *
S.T. STA. *

Cell Name: UTERM
Descrip: TERMINATOR FOR BOXED NOTE

Cell Name: WETLEG
Descrip: WETLANDS LEGEND

ROADWAY DESIGN

Nebraska Department of Roads

PLAN DEVELOPMENT UNIT PATTERN

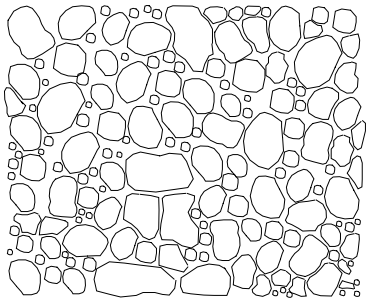
JUNE 2007

NAME OF LIBRARY = PDUPAT.CEL

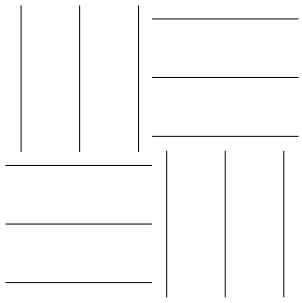
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: pdupat.cel

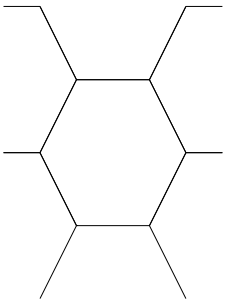
Cell Name: DORRIP
Descrip: NDOR RIPRAP PATTERN



Cell Name: EARTH
Descrip: EARTH AREA PATTERN



Cell Name: HONEY
Descrip: HONEYCOMB AREA PATTERN



Cell Name: LEGFEN
Descrip: LEGEND FOR FENCING

LEGEND

- (E) END POST
- (C) CORNER POST
- (P) PULL POST
- * - TIE EXISTING RIGHT-OF-WAY FENCE TO NEW FENCE.
- ■ - FENCE FOLLOWS CURVED RIGHT- OF- WAY.
- ◑ - POST HOLE THROUGH CONCRETE SLOPE PROTECTION.
- ▲ - 5' MINIMUM DISTANCE BETWEEN RELOCATED ACCESS ROAD AND NEW RIGHT-OF-WAY FENCE.
- ★ - ABUT EXISTING CHAIN LINK FENCE.

Cell Name: LEGJOINT
Descrip: LEGEND FOR JOINTS

LEGEND

- — — — LONGITUDINAL JOINT
- - - - - - - - CONTRACTION JOINT
- ━━━━━ COMPRESSION JOINT
- ———— CONSTRUCTION JOINT

FOR DETAILS NOT SHOWN SEE PLAN 329-R_.

Cell Name: LEGPZCON
Descrip: LEGEND FOR PHASING CONSTRUCTION

LEGEND

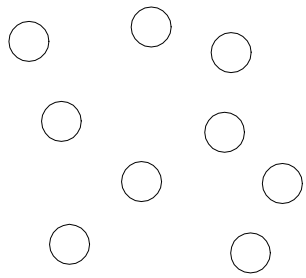
- GRADING
- BUILD TEMPORARY PAVEMENT
- COMPLETED TEMPORARY PAVEMENT
- BUILD CRUSHED ROCK EMBEDMENT
- COMPLETED CRUSHED ROCK EMBEDMENT
- BUILD CONCRETE PAVEMENT/ BRIDGE
- COMPLETED CONCRETE PAVEMENT/ BRIDGE
- TRAFFIC FLOW
- INERTIAL BARRIER
- CONCRETE BARRIER

Cell Name: LEGPZREM
Descrip: LEGEND FOR PHASING REMOVAL

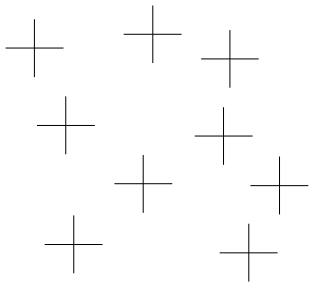
LEGEND

- COLD MILLING, CLASS 4 TYPE A
- COLD MILLING, CLASS 4 TYPE B, & CRUSH CONCRETE PAVEMENT
- CRUSH CONCRETE PAVEMENT

Cell Name: PZCIRC
Descrip: CIRCLE PATTERN FOR PHASING



Cell Library: pdupat.cel

Cell Name: PZLINE Descrip: LINE PATTERN FOR PHASING 	Cell Name: PZPLUS Descrip: PLUS SYMBOL FOR PHASING 

ROADWAY DESIGN

Nebraska Department of Roads

PRELIMINARY

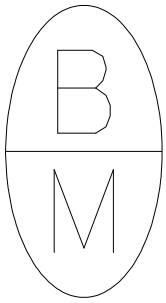
JUNE 2007

NAME OF LIBRARY = PRELIM.CEL

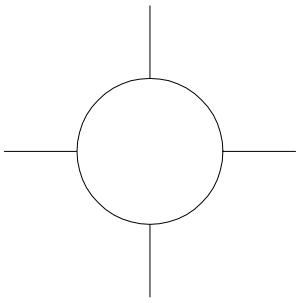
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: prelim.cel

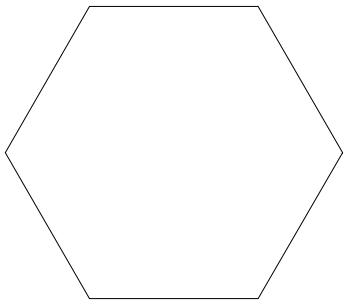
Cell Name: BM
Descrip: BENCH MARK



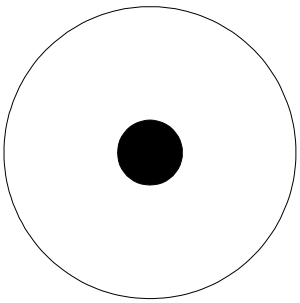
Cell Name: CEN
Descrip: CENTER OF PHOTO



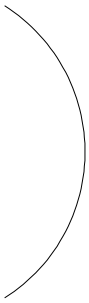
Cell Name: CODE
Descrip: PHOTO CODE POINT



Cell Name: CONPT
Descrip: CONTROL POINT

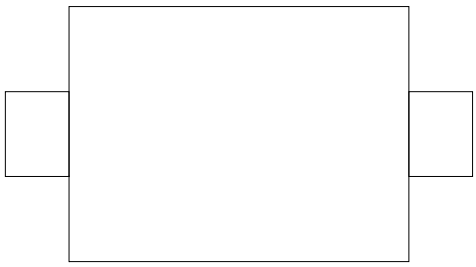


Cell Name: GA
Descrip: GUY ANCHOR TERMINATOR

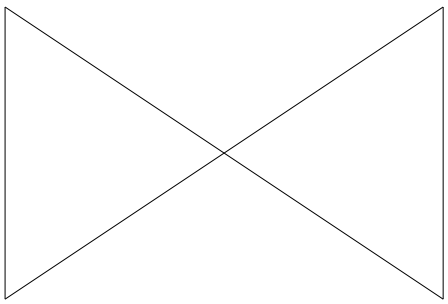


Cell Name: GASM
Descrip: GAS METER

Cell Name: GASP
Descrip: GASOLINE PUMP

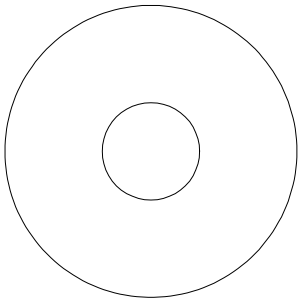


Cell Name: GASV
Descrip: GAS VALVE

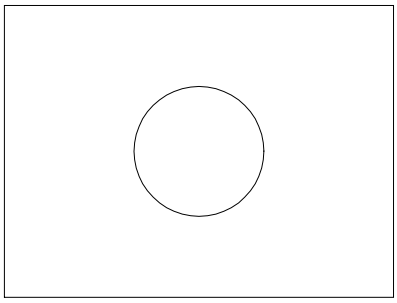


Cell Library: prelim.cel

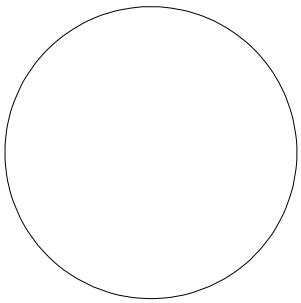
Cell Name: GASVE
Descrip: GAS VENT



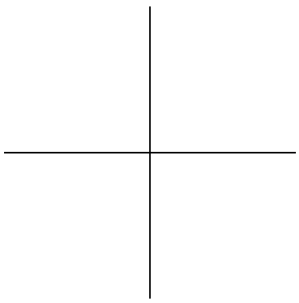
Cell Name: GFP
Descrip: GASOLINE FILL PIPE



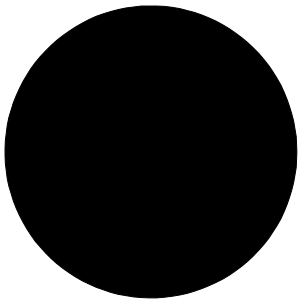
Cell Name: GP
Descrip: GUARD POST



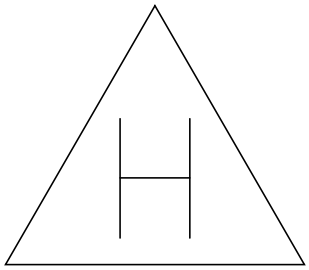
Cell Name: GT
Descrip: GRID TICK



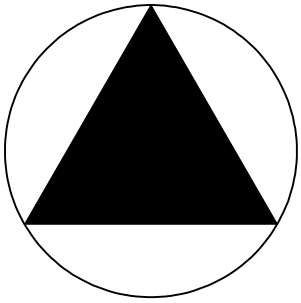
Cell Name: GUYP
Descrip: GUY POLE



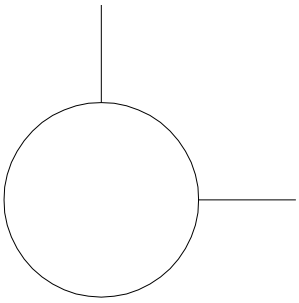
Cell Name: HARN
Descrip: HARN POINT



Cell Name: HMT
Descrip: HIGH MAST TOWER

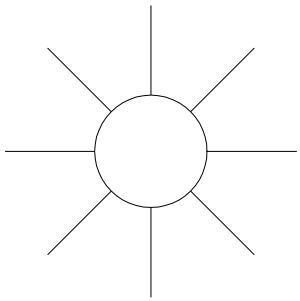


Cell Name: HYD
Descrip: FIRE HYDRANT

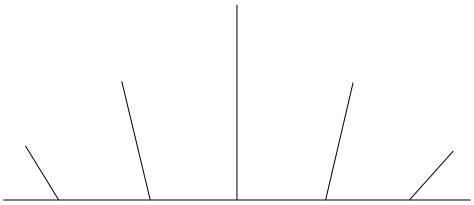


Cell Library: prelim.cel

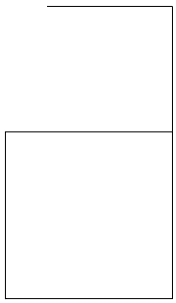
Cell Name: LP
Descrip: LIGHT POLE



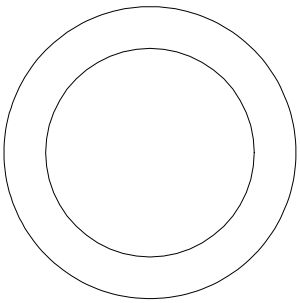
Cell Name: MAR
Descrip: MARSH



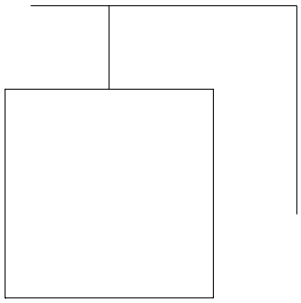
Cell Name: MB
Descrip: MAILBOX



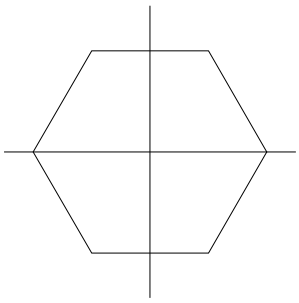
Cell Name: MH
Descrip: MANHOLE



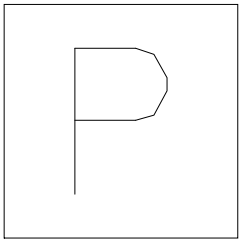
Cell Name: OIL
Descrip: OIL WELL



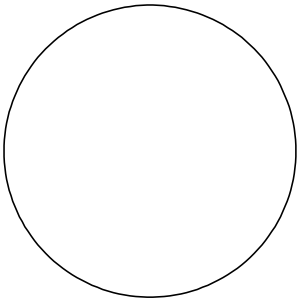
Cell Name: PASSPT
Descrip: PHOTO SETUP POINT LV2



Cell Name: PBOX
Descrip: POWER BOX

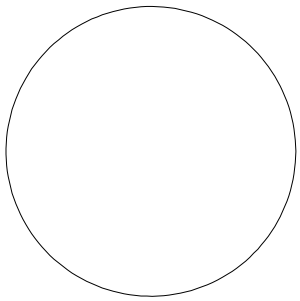


Cell Name: PCOR
Descrip: PROPERTY CORNER

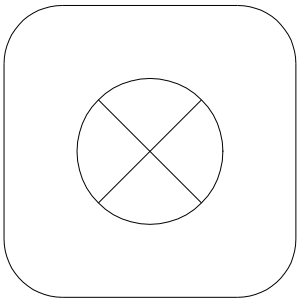


Cell Library: prelim.cel

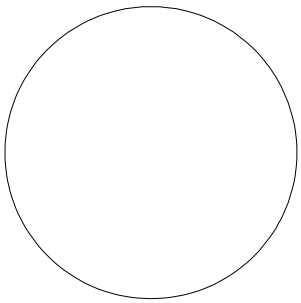
Cell Name: PIPE LABEL
Descrip: PIPE LABEL



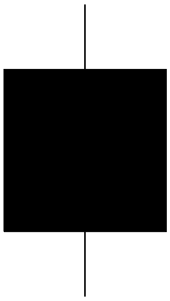
Cell Name: PIVOT
Descrip: CENTER PIVOT



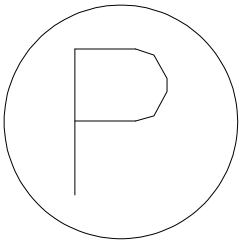
Cell Name: POLE
Descrip: POLE



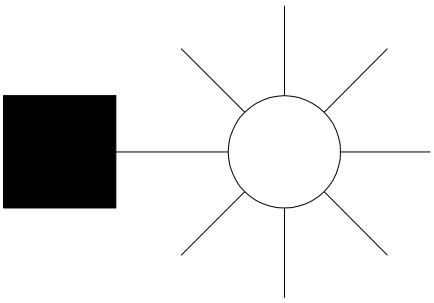
Cell Name: PP
Descrip: POWER POLE



Cell Name: PPB
Descrip: POWER PULL BOX

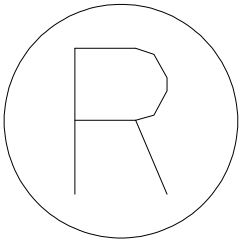


Cell Name: PPM
Descrip: POWER POLE WITH MAST ARM



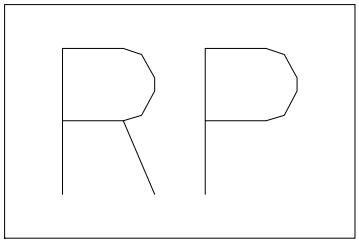
Cell Name: PROP
Descrip: PROPANE TANK

Cell Name: ROW
Descrip: ROW MARKER

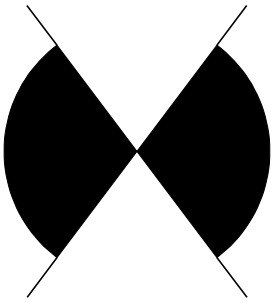


Cell Library: prelim.cel

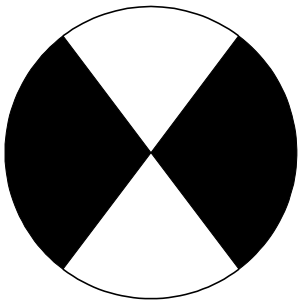
Cell Name: RP
Descrip: REF POST MILE MARKER



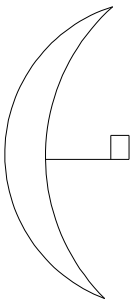
Cell Name: RRW
Descrip: RAILROAD WARNING



Cell Name: RRWS
Descrip: ADV RAILROAD WARNING SIGN



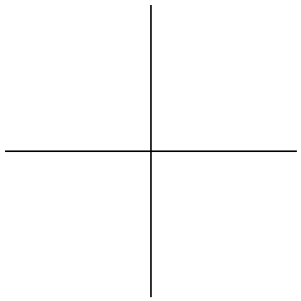
Cell Name: SAT
Descrip: SATELLITE DISH



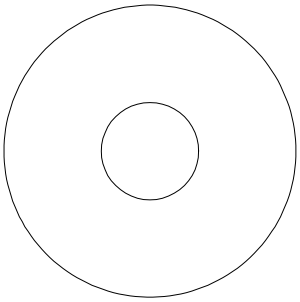
Cell Name: SIGN
Descrip: SIGN

Cell Name: SL
Descrip: SECTION LINE

Cell Name: SURVEY
Descrip: POINT LOCATOR FOR GEOPAK

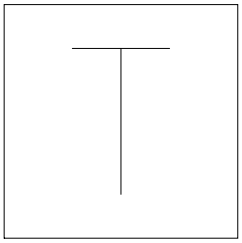


Cell Name: SV
Descrip: SEPTIC VENT

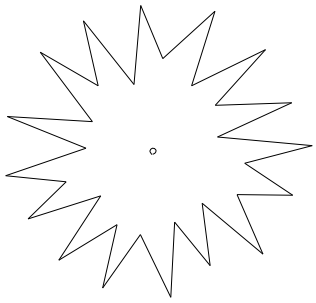


Cell Library: prelim.cel

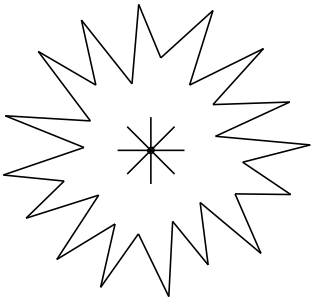
Cell Name: TBOX
Descrip: TELEPHONE BOX



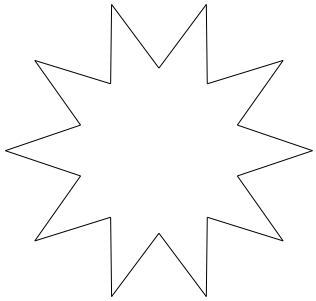
Cell Name: TC1
Descrip: TREE CONIFEROUS



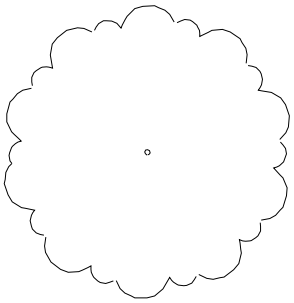
Cell Name: TC2
Descrip: TREE CONIFEROUS PAY ITEM



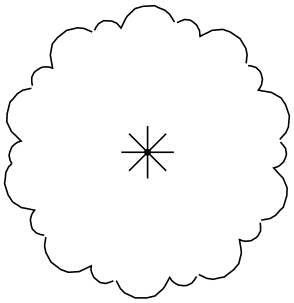
Cell Name: TC3
Descrip: SHRUB CONIFEROUS



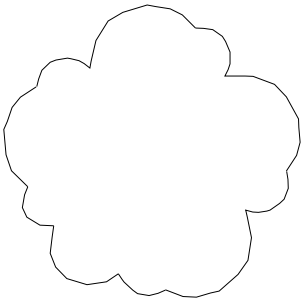
Cell Name: TD1
Descrip: TREE DECIDUOUS



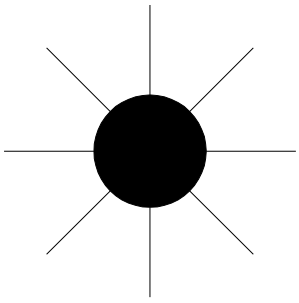
Cell Name: TD2
Descrip: TREE DECIDUOUS PAY ITEM



Cell Name: TD3
Descrip: SHRUB DECIDUOUS

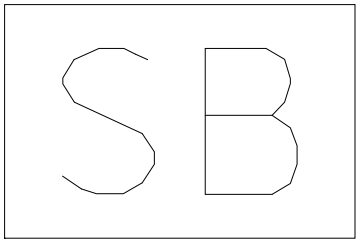


Cell Name: TFS
Descrip: TRAFFIC SIGNAL

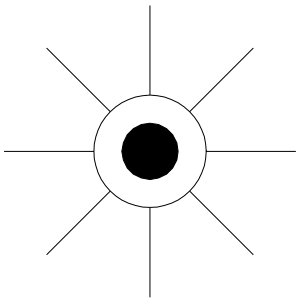


Cell Library: prelim.cel

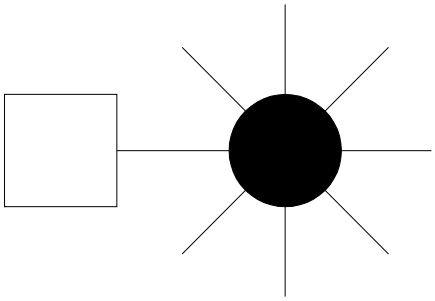
Cell Name: TFSB
Descrip: TRAFFIC SIGNAL BOX



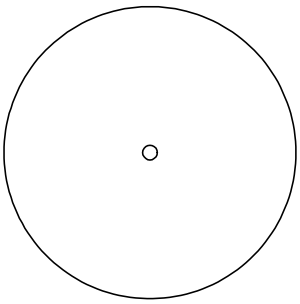
Cell Name: TFSL
Descrip: TRAFFIC SIGNAL STREET LIGHT



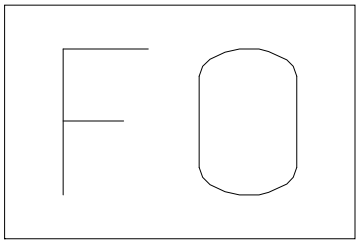
Cell Name: TFSM
Descrip: TRAFFIC SIGNAL WITH MAST ARM



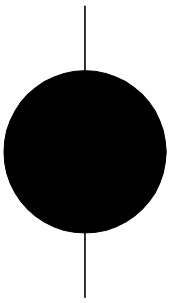
Cell Name: TIEPIE
Descrip: CIRCLES FOR TIE SHEET



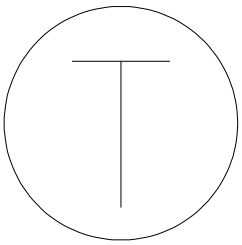
Cell Name: TLFB
Descrip: TELEPHONE LINE FIBER OPTIC BOX



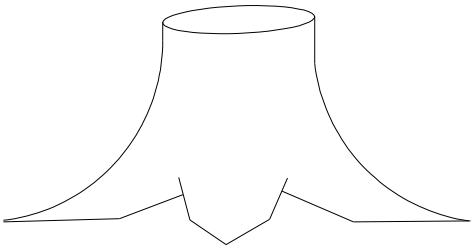
Cell Name: TP
Descrip: TELEPHONE POLE



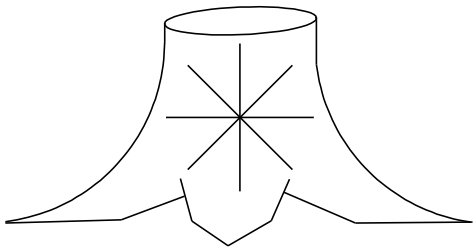
Cell Name: TPB
Descrip: TELEPHONE PULL BOX



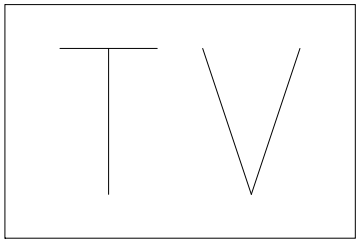
Cell Name: TS
Descrip: TREE STUMP



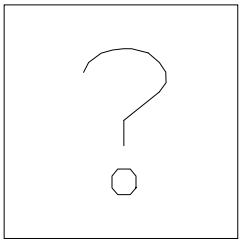
Cell Name: TSI
Descrip: TREE STUMP PAY ITEM



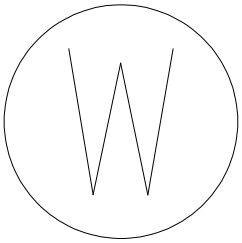
Cell Name: TVB
Descrip: TELEVISION BOX



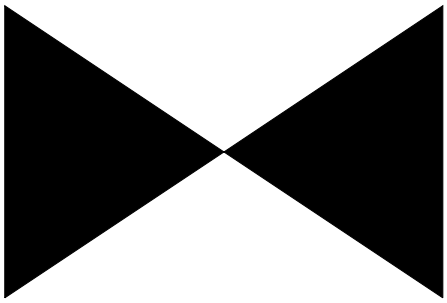
Cell Name: UNK
Descrip: UNKNOWN



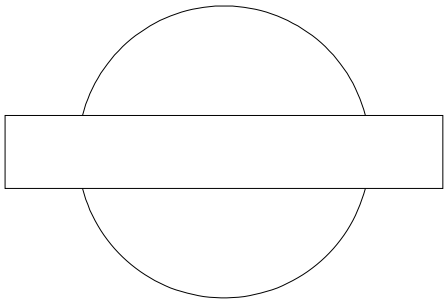
Cell Name: WATM
Descrip: WATER METER



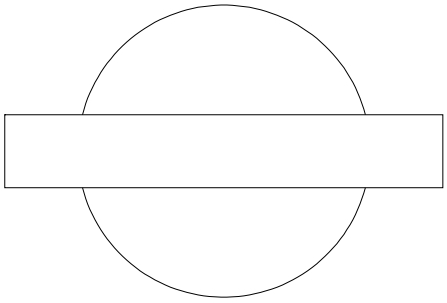
Cell Name: WATV
Descrip: WATER VALVE



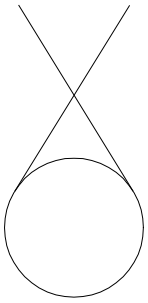
Cell Name: WELL IRRIGATION
Descrip: WELL IRRIGATION



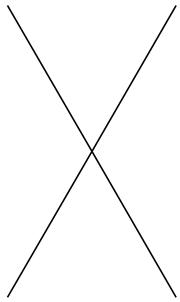
Cell Name: WELL MUNICIPAL
Descrip: WELL MUNICIPAL



Cell Name: WM
Descrip: WINDMILL



Cell Name: ZSPOT
Descrip: SPOT ELEVATION



ROADWAY DESIGN

Nebraska Department of Roads

TURNING TEMPLATE

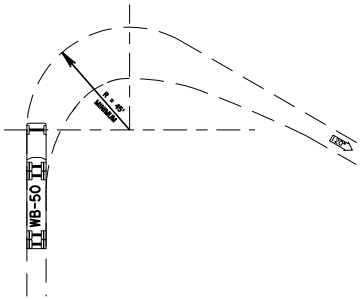
JUNE 2007

NAME OF LIBRARY = TURN.CEL

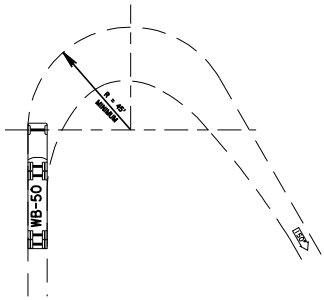
ALL CELLS HAVE BEEN CREATED FOR 100:1 PLOTTING SCALE UNLESS NOTED OTHERWISE

Cell Library: turn.cel

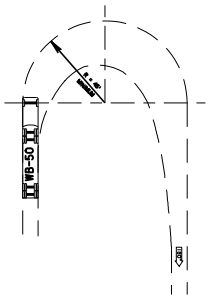
Cell Name: 45R120
Descrip: WB50 R 45 120 TURN



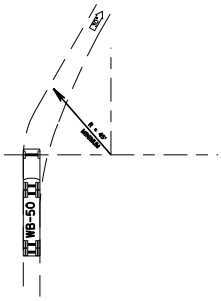
Cell Name: 45R150
Descrip: WB50 R 45 150 TURN



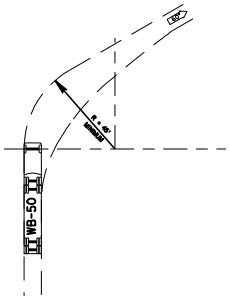
Cell Name: 45R180
Descrip: WB50 R 45 180 TURN



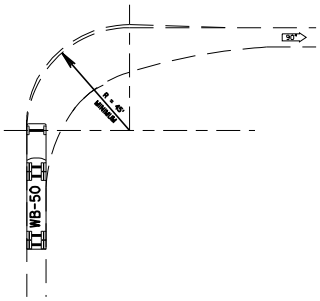
Cell Name: 45R30
Descrip: WB50 R 45 30 TURN



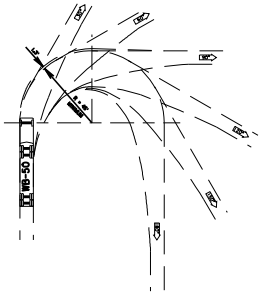
Cell Name: 45R60
Descrip: WB50 R 45 60 TURN



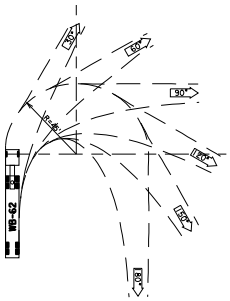
Cell Name: 45R90
Descrip: WB50 R 45 90 TURN



Cell Name: 45WB50
Descrip: WB50 R 45 ALL TURNS

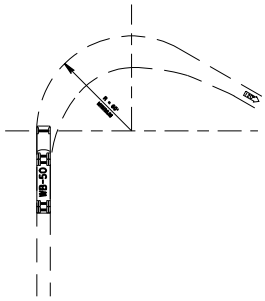


Cell Name: 45WB62
Descrip: WB62 R 45 ALL TURNS

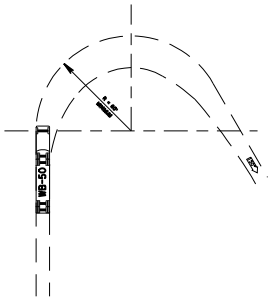


Cell Library: turn.cel

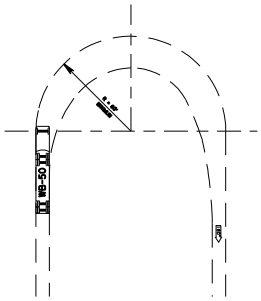
Cell Name: 60R120
Descrip: WB50 R 60 120 TURN



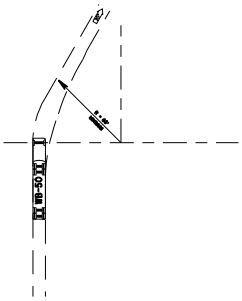
Cell Name: 60R150
Descrip: WB50 R 60 150 TURN



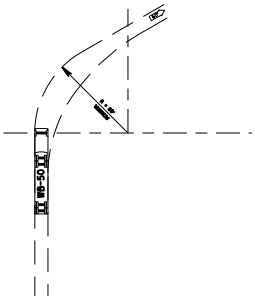
Cell Name: 60R180
Descrip: WB50 R 60 180 TURN



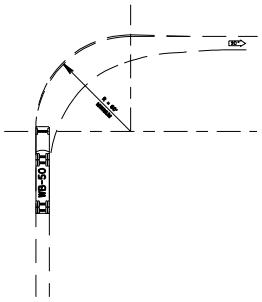
Cell Name: 60R30
Descrip: WB50 R 60 30 TURN



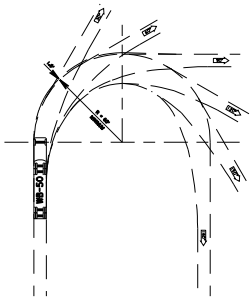
Cell Name: 60R60
Descrip: WB50 R 60 60 TURN



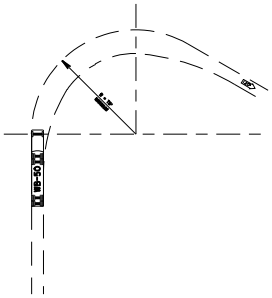
Cell Name: 60R90
Descrip: WB50 R 60 90 TURN



Cell Name: 60WB50
Descrip: WB50 R 60 ALL TURNS

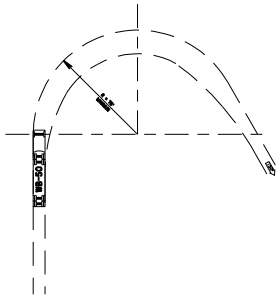


Cell Name: 75R120
Descrip: WB50 R 75 120 TURN

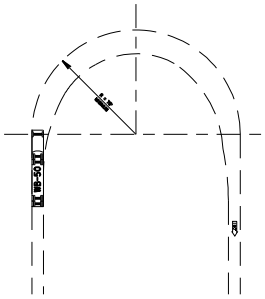


Cell Library: turn.cel

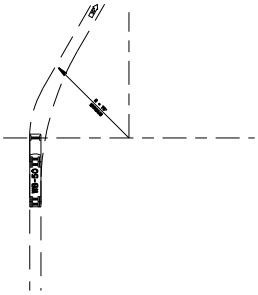
Cell Name: 75R150
Descrip: WB50 R 75 150 TURN



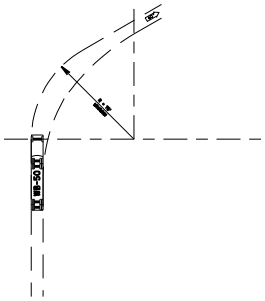
Cell Name: 75R180
Descrip: WB50 R 75 180 TURN



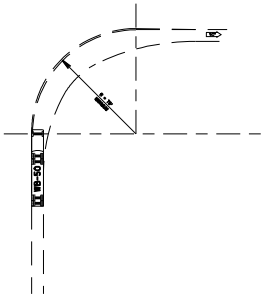
Cell Name: 75R30
Descrip: WB50 R 75 30 TURN



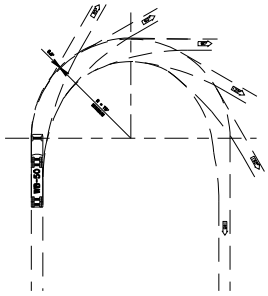
Cell Name: 75R60
Descrip: WB50 R 75 60 TURN



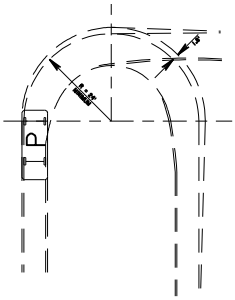
Cell Name: 75R90
Descrip: WB50 R 75 90 TURN



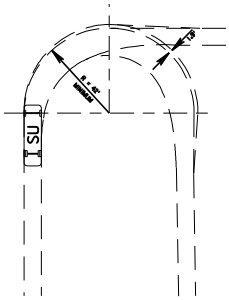
Cell Name: 75WB50
Descrip: WB50 R 75 ALL TURNS



Cell Name: P
Descrip: PASSENGER ALL TURNS



Cell Name: SU
Descrip: SINGLE UNIT ALL TURNS



ROADWAY DESIGN

Nebraska Department of Roads

TYPICAL

JUNE 2007

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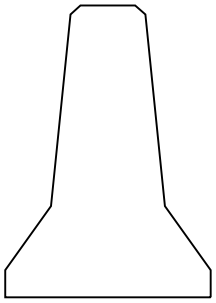
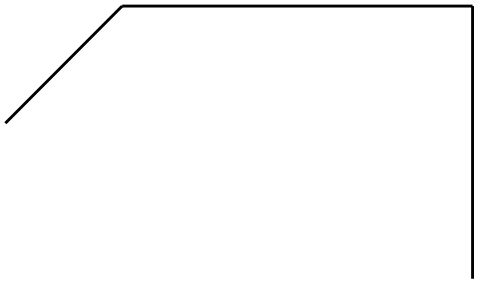
Cell Library: typical.cel

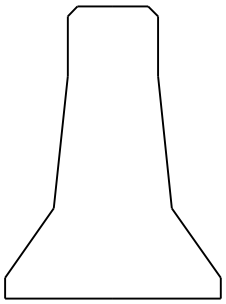
Cell Name: 32BAR
Descrip: 32 INCH BARRIER



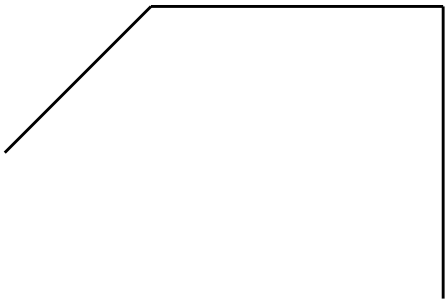
Cell Name: 3ASCRB
Descrip: 3 INCH ASPH CURB



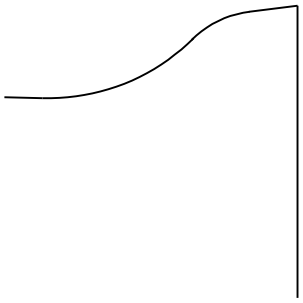
Cell Name: 42BAR
Descrip: 42 INCH BARRIER



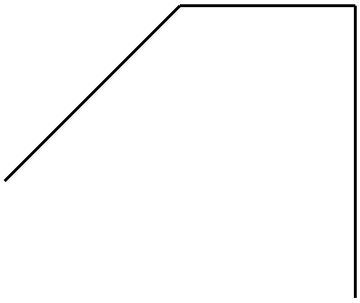
Cell Name: 4ASCRB
Descrip: 4 INCH ASPH CURB



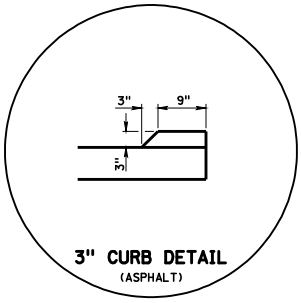
Cell Name: 4INCRB
Descrip: 4 INCH CURB



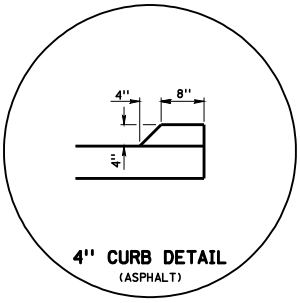
Cell Name: 6ASCRB
Descrip: 6 INCH ASPH CURB



Cell Name: ASPH3
Descrip: 3 INCH ASPH CURB DETAIL

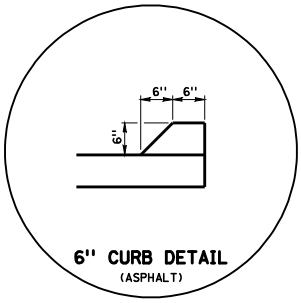


Cell Name: ASPH4
Descrip: 4 INCH ASPH CURB DETAIL

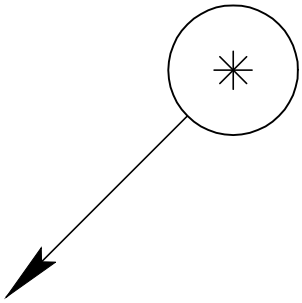


Cell Library: typical.cel

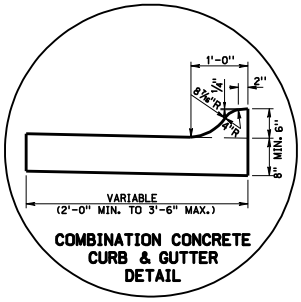
Cell Name: ASPH6
Descrip: 6 INCH ASPHALT CURB DETAIL



Cell Name: BUBBLE
Descrip: BUBBLE NOTE FOR TYPS

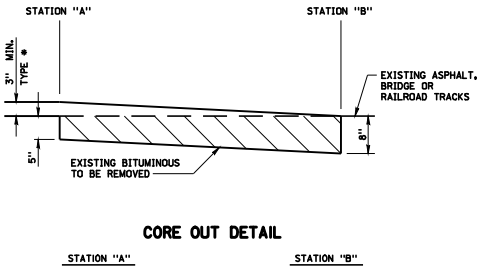


Cell Name: CG6
Descrip: 6 INCH CURB AND GUTTER DETAIL

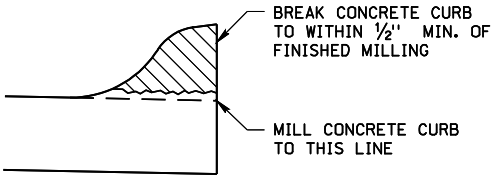


Cell Name: CL
Descrip: CENTER LINE

Cell Name: CORE
Descrip: CORE OUT DETAIL

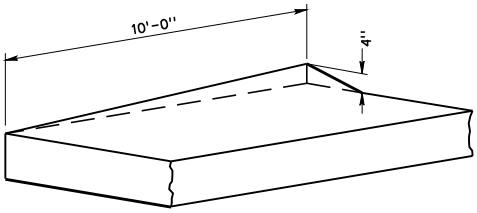


Cell Name: CRD
Descrip: CURB REMOVAL DETAIL



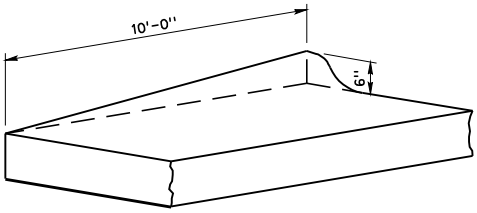
CURB REMOVAL DETAIL

Cell Name: CT420
Descrip: 4 TO 0 LIP CURB TAPER DETAIL



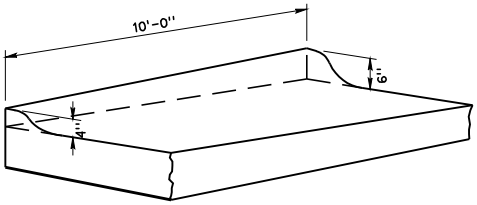
CURB TAPER DETAIL

Cell Name: CT620
Descrip: 6 TO 0 10 CURB TAPER DETAIL



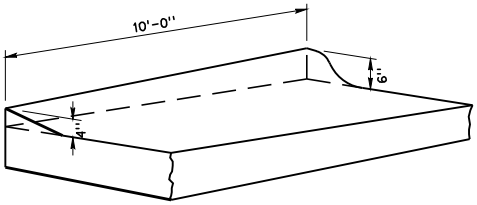
CURB TAPER DETAIL

Cell Name: CT624
Descrip: 6 TO 4 10 CURB TAPER DETAIL



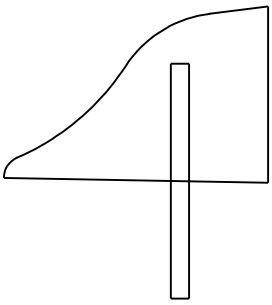
CURB TAPER DETAIL

Cell Name: CT624L
Descrip: 6 TO 4 TAPERED TO LIP

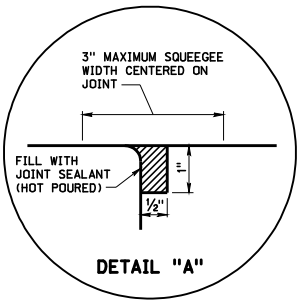


CURB TAPER DETAIL

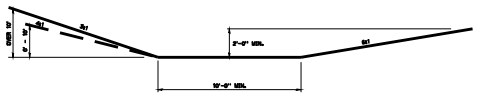
Cell Name: CURB2
Descrip: CONCRETE CURB TYPE 2



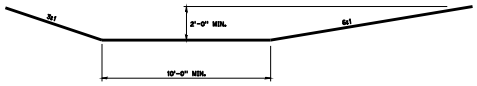
Cell Name: DETLA
Descrip: DETAIL A



Cell Name: DITCH1
Descrip: DR1 AND DR2 DITCH SECTION



Cell Name: DITCH2
Descrip: DR3 THRU 7 DITCH SECTION

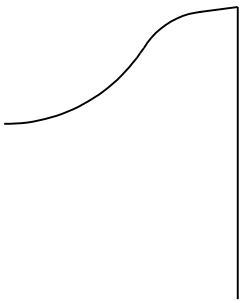


Cell Name: FEATH
Descrip: FEATHER DETAIL

FEATHER

STATION "A" STATION "B"

Cell Name: INCURB
Descrip: INTEGRAL CURB



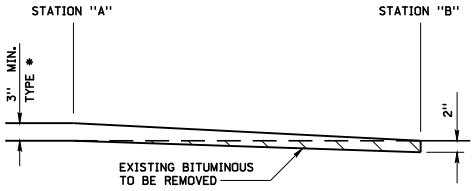
Cell Name: INFO
Descrip: FOR INFORMATION ONLY
ASPHALTIC CONCRETE

FOR INFORMATION ONLY

THE ESTIMATED QUANTITIES SHOWN FOR ASPHALTIC CONCRETE, TYPE "...", INCLUDE ADDITIONAL TONNAGE FOR CORRECTING CURVE SUPERELEVATIONS AS SHOWN BELOW:

STATION	TO	STATION	ASPHALTIC CONCRETE, TONS
	*		*
	*		*

Cell Name: INLAY
Descrip: INLAY DETAIL

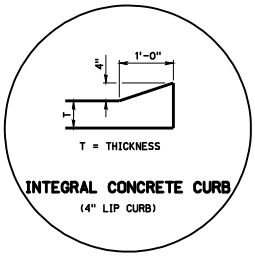


INLAY DETAIL

STATION "A" STATION "B"

Cell Name: INTCRB
Descrip: INTEGRAL CONCRETE CURB

CELL NOT TO BE USED UNLESS
STANDARD PLAN FOR PAVEMENT DETAILS
WILL NOT BE IN THE PLANS



INTEGRAL CONCRETE CURB
(4" LIP CURB)

Cell Name: LEGEND
Descrip: LEGEND FOR TYPICALS

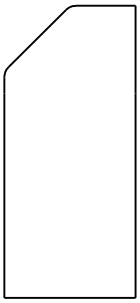
LEGEND

1. *" CONCRETE PAVEMENT
2. SUBGRADE PREPARATION
3. FOUNDATION COURSE (REGULAR)
4. SHOULDER CONSTRUCTION
5. *" INTEGRAL CURB
6. LONGITUDINAL JOINT

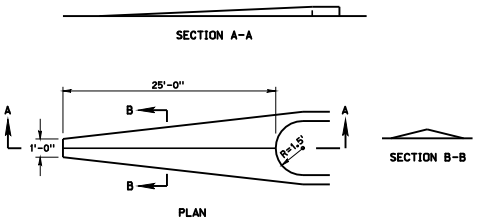
Cell Name: MATREM
Descrip: MATERIAL REMOVED

* THIS MATERIAL TO BE REMOVED BY THE SURFACING CONTRACTOR AND INCORPORATED INTO THE SHOULDERS.

Cell Name: MEDCRB
Descrip: CONCRETE MEDIAN CURB

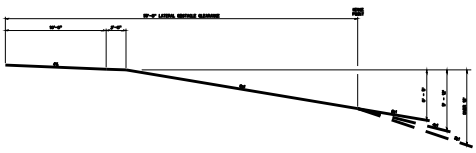


Cell Name: NOSE
Descrip: ASPHALTIC CONCRETE ISLAND NOSE



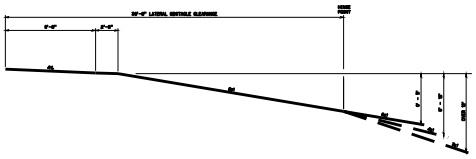
ASPHALTIC CONCRETE ISLAND NOSE

Cell Name: SLOPEI
Descrip: DRI SLOPE SECTION

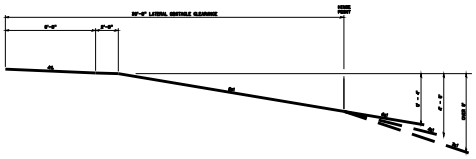


Cell Library: typical.cel

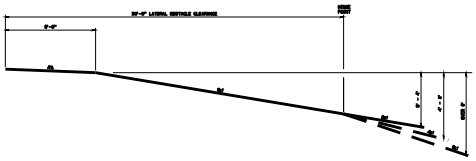
Cell Name: SLOPE2
Descrip: DR2 SLOPE SECTION



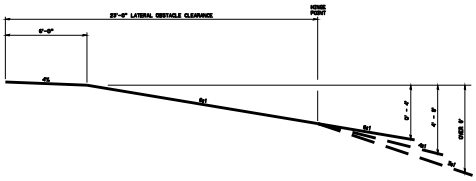
Cell Name: SLOPE3
Descrip: DR3 SLOPE SECTION



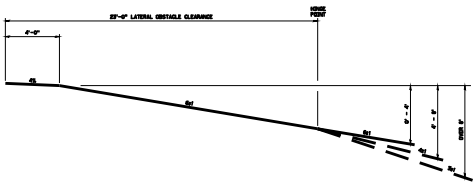
Cell Name: SLOPE4
Descrip: DR4 SLOPE SECTION



Cell Name: SLOPE5
Descrip: DR5 AND 6 SLOPE SECTION



Cell Name: SLOPE6
Descrip: DR7 SLOPE SECTION



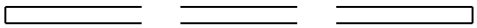
Cell Name: TCT
Descrip: TEMPLT CORRECT TONNAGE

NOTE: ''TEMPLATE CORRECTION TONNAGE''

ONE-HALF INCH THICKNESS OF ADDITIONAL ASPHALTIC CONCRETE IS INCLUDED IN THE PLAN QUANTITY FOR THE LOWER LAYER.

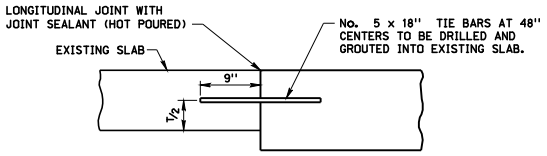
THE ENGINEER WILL DIRECT THE CONTRACTOR TO ADJUST THE PLACEMENT RATE TO UTILIZE THE PLAN QUANTITY.

Cell Name: TIE18
Descrip: 18 INCH BAR FOR WIDENING LVI



Cell Name: TIE30
Descrip: 30 INCH BAR FOR JOINTS

Cell Name: TIEDET
Descrip: TIE BAR DETAIL



DETAIL OF TIE BAR