# SEWER LINE GAS LINE ELECTRIC LINE WATER LINE T TELEPHONE/CATV LINE

# 

SITE RETAINING WALL

# LEGEND

FND 1/2" ROD & CAP

SET 1/2" ROD w/ CAP

SPOT ELEVATION EAST EDGE OF SIDEWALK

SMALL PINON OR CEDAR EVERGREEN TREE

LARGE PINON OR CEDAR EVERGREEN TREE

UNDERGROUND ELECTRIC (APPROX. LOC.)

WATER (APPROX. LOC.)

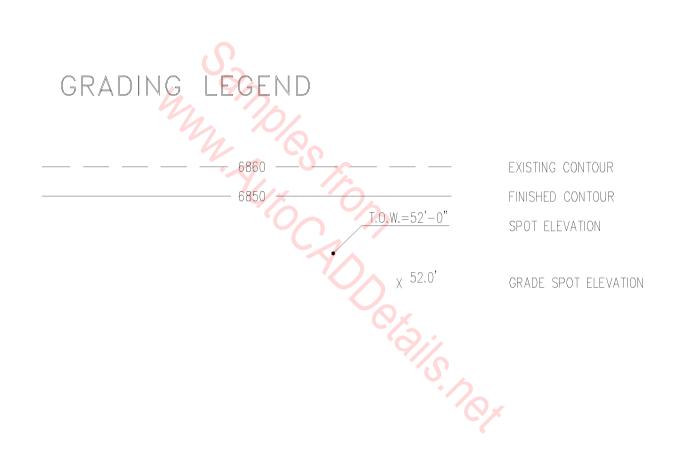
SEWER (APPROX. LOC.)

GAS (APPROX. LOC.)

TELEPHONE (APPROX. LOC.)

NOT TO SCALE

010-1003



NOT TO SCALE

010 - 1004



JOINT SPACING

PAVEMENT RECOMMENDED SPACING OF CONTRACTION JOINTS (FEET) INCHES

<9 12 1/2 TO 15

9 TO 12 15 TO 20

>12 20 TO 25\*

\* 20' MAX. FOR AIR FORCE

JOINT SPACING

PAVEMENT THICKNESS, OF CONTRACTION JOINTS (FEET) INCHES

49
12 1/2 TO 15

9 TO 12
15 TO 20
>12
20 TO 25\*
\* 20' MAX. FOR AIR FORCE

### GRADING NOTES

- A. A GRADING PERMIT IS REQUIRED.
- B. NO MINIMUM FINISH FLOOR ELEVATION SHALL BE ALTERED.
- C. STAKING FINISH FLOOR ELEVATION IS THE RESPONSIBILITY OF THE DEVELOPER AND THE DEVELOPER'S ENGINEER.
- D. CERTIFIED SHALLOW PIT PERCOLATION TEST RESULTS ARE \_\_\_\_ CFH/SF. BASED ON A 50% ATTENUATION OF THE SHALLOW PIT PERCOLATION TEST RESULTS, THE ESTIMATED DRAINAGE TIME OF RETENTION POND \_\_\_\_ IS \_\_\_\_ HOURS IF TIME IS GREATER THAN 36 HOURS ONE OR MORE DRYWELLS ARE REQUIRED.
- E. CONTRACTOR SHALL PROVIDE GRADING FOR POSITIVE DRAIN-AGE IN ALL RETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. BOTTOM OF BASIN SHALL BE GRADED TO DRAIN TOWARD DRYWELLS (WHEN USED). MAXIMUM SIDE— SLOPES SHALL BE 4:1.
- F. DRYWELL INLET CRATES SHALL BE 0.5 FEET ABOVE BOTTOM OF THE RETENTION BASIN.
- G. DRILLING LOGS FOR DRYWELLS WILL BE FURNISHED TO THE CITY INSPECTOR PRIOR TO FINAL ACCEPTANCE.
- H. A PERCOLATION TEST WILL BE REQUIRED OF COMPLETED DRYWELLS PRIOR TO ACCEPTANCE. SHOULD EXISTING SOIL CONDITIONS BE ENCOUNTERED WHICH LACK SUFFICIENT PERCOLATION RATES, ADDITIONAL DRYWELLS OF AN ALTERNATE METHOD OF STORM WATER RUN-OFF DISPOSAL WILL BE REQUIRED. THE PERCOLATION RATE FOR DRYWELL NO. \_\_\_\_\_\_ IS \_\_\_\_\_CFS.
- I. DRYWELL CONSTRUCTION SHALL BE DONE ONLY BY CONTRACTOR'S LICENSED BY THE [STATE] DEPARTMENT OF ENVIRONMENTAL QUALITY. APPLICATION FOR DRYWELL REGISTRATION WAS SUBMITTED TO [STATE] DEPARTMENT OF ENVIRONMENTAL QUALITY ON
- J. ALL WEEP HOLES IN WALLS SHALL BE PROVIDED WITH EROSION PROTECTION 12" THICK WITH D50 = 4" RIPRAP 24" IN WIDTH, EXTENDED TO THE BACK OF SIDEWALK OR TO THE BOTTOM OF RETENTION BASIN, WHICHEVER APPLIES.

# SEWER NOTES

- A. ALL SEWER TAPS SHALL BE WYE TYPE.
- B. CONNECTIONS TO EXISTING SEWER MAINS SHALL BE ACCOMP-LISHED BY MACHINE TAPPING, UTILIZING A SADDLE, OR BY CONSTRUCTION OF A MANHOLE.
- C. SEWER TAPS SHOULD BE 4-1/2 FEET DEEP AT PROPERTY LINE. TO RAISE THE TAP FROM THE MAINS DEEPER THAN 6 FEET, THE WYE AND 1/8 BEND SHALL BE SET AT A 45 DEGREE ANGLE FROM HORIZONTAL AND A SHORT PIECE OF STRAIGHT PIPE SHALL BE PLACED ON THE 1/8 BEND. ANOTHER 1/8 BEND IS PLACED AT THE OTHER END OF THE SHORT PIPE TO BRING THE TAP TO APPROPRIATE GRADE AT THE PROPERTY LINE.
- ALL SEWER SERVICE CONNECTIONS SHALL BE EXTENDED A SUFFICIENT DISTANCE BEYOND STREET RIGHT-OF-WAY LINES TO CLEAR ALL FACILITIES TO BE INSTALLED IN PUBLIC UTILITY EASEMENTS WHICH PARALLEL THE STREET RIGHT-OF-WAY.
- E. METALLIC, DETECTIBLE WARNING TAPE OR LOCATOR WIRE SHALL BE REQUIRED AT LOCATIONS DESIGNATED BY THE OFF—SITE INSPECTOR WHEN CHANGES IN HORIZONTAL PIPE ALIGN—MENTS ARE NOT APPARENT FROM SURFACE APPURTENANCES.

  THE TAPE OR WIRE SHALL BE PLACED ONE FOOT ABOVE THE TOP OF PIPE (MAXIMUM DEPTH 4 FEET) AND SHALL EXTEND A MINIMUM OF 6 FEET IN EACH DIRECTION FROM THE ALIGN—MENT CHANGE AND SHALL BE SHOWN ON AS—BUILT PLANS.
- F. ALL PLASTIC PIPE WITH A CURVED ALIGNMENT SHALL BE IDENTIFIED WITH 3-INCH SIDE METALLIC, DETECTIBLE WARN-ING TAPE WITH THE WORD "SEWER" OR "WASTEWATER". THE TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW THE GROUND SURFACE OVER THE ENTIRE LENGTH OF THE PIPE.
- G. MANHOLE FRAME AND COVER SHALL BE ADJUSTED PER M.A.G, STANDARD DETAIL 422, EXCEPT WHEN OUTSIDE OF PAVEMENT, IN WHICH CASE IT SHALL BE ADJUSTED PER CITY OF [CITY] SPECIFICATION [NUMBER].
- H. ALL MANHOLE INTERIORS SHALL BE PAINTED WITH "INSECTA INSECTICIDAL COATING WHITE SEMI—GLOSS LATEX" OR APPROVED EQUAL.
- I. ALL PVC SEWER PIPE SHALL BE CONSTRUCTED WITH CLASS "B" BEDDING.

### PAVING NOTES

- A. THE LOCATION OF ALL VALVES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- B. NO PAVING CONSTRUCTION SHALL BE PERFORMED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY HAVE BEEN COMPLETED.
- C. THE BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE CITY ENGINEER.
- D. GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER TO INSURE PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
- E. THE EXACT POINT OF PAVEMENT MATCHING FOR TERMIN— ATION AND OVERLAY MAY BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
- C. BLUE REFLECTIVE SPOTTERS SHALL BE INSTALLED ON THE STREET PAVEMENT AT FIRE HYDRANT LOCATIONS IN ACCORDANCE WITH [CITY] DETAIL [NUMBER].
- H. STREET NAME SIGNS WILL BE INSTALLED BY THE CITY ON DEVELOPER INSTALLED POLES AT THE DEVELOPER'S EXPENSE. POLES SHALL BE CITY OF [CITY] STANDARD DETAIL [NUMBER]. PAYMENT WILL BE COLLECTED AT THE TIME A PAVING PERMIT IS ISSUED.
- I. CERTIFIED SOIL TEST SHOWS \_\_\_\_\_ PERCENT SWELL
  TESTED AT 2 TO 3 PERCENT BELOW OPTIMUM MOISTURE
  WITH 100 PSF SURCHARGE, MINIMUM DENSITY REQUIRE—
  MENTS FOR COMPACTION UNDER SIDEWALK AND CURBS
  SHALL BE \_\_\_\_\_ PERCENT. ALL COMPACTION UNDER
  SIDEWALKS AND CURBS SHALL BE PERFORMED WITHIN 3
  PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- J. ALL COMPACTION UNDER PAVEMENT AREAS SHALL BE PERFORMED ACCORDING TO MAG SPECIFICATIONS AND AT 0 TO 5 PERCENT BELOW OPTIMUM MOISTURE CONTENT.
- K. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING, UNLESS OTHERWISE NOTED.
- L. ALL STREET SECTIONS, EXCEPT ARTERIALS, SHALL HAVE INSTALLED A PRESERVATIVE SEAL COAT PER MAG STAND— ARD SPECIFICATION 334 AND SHALL BE EMULSIFIED AS— PHALT GRADE SS—1H PER MAG STANDARD SPECIFICATION 713

# WATER NOTES

- A. FIRE HYDRANTS SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED IN ACCORDANCE WITH CITY OF [CITY] STANDARD DETAIL [NUMBER]. ALL FIRE HYDRANTS SHALL BE PAINTED ACCORDING TO FIRE DEPARTMENT STANDARDS AFTER INSTALL ALTON.
- B. ALL WATER SERVICE LINE AND METER BOX INSTALLATIONS SHALL CONFORM TO CITY OF [CITY] STANDARD DETAIL [NUMBER].
- C. METER BOXES AND LIDS TO BE SUPPLIED BY DEVELOPER
  AND INSTALLED FACING LOT. (SEE CITY OF [CITY]
  STANDARD DETAIL [NUMBER] AND M.A.G. STANDARD DETAIL 320.)
  NO PLASTIC METER BOXES.
- D. CITY OF [CITY] TO FURNISH AND INSTALL ALL WATER
  METERS WITH PREVAILING COSTS TO BE PAID BY DEVELOPER.
- E. ALL VALVES 6" 24" SHALL BE GATE TYPE IN CONFORMANCE WITH M.A.G. STANDARD SPECIFICATION 630.3, UNLESS OTHERWISE NOTED.
- F. ALL VALVE BOXES SHALL CONFORM TO CITY OF [CITY] STANDARD DETAILS [NUMBER] AND [NUMBER].
- G. CITY WATER VALVES WILL BE OPERATED BY CITY PERSONNEL ONLY
- H. BUTTERFLY VALVE OPERATOR WILL BE OFFSET TO THE SIDE OF MAIN AWAY FROM MONUMENT LINE.
- I. ALL TAPS SHALL USE A BRONZE SERVICE SADDLE. EIGHT
  (8) INCHES OR LESS SHALL BE SINGLE STRAP AND TEN (10)
  INCHES OR GREATER SHALL BE DOUBLE STRAP.
- J. TAPS IN ACP SHALL BE MADE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ACP MANUFACTURERS ASSOCIATION.
- K. METALLIC, DETECTIBLE WARNING TAPE OR LOCATOR WRE SHALL BE REQUIRED AT LOCATIONS DESIGNATED BY THE OFF—SITE INSPECTOR WHEN CHANGES IN HORIZONTAL PIPE ALIGNMENT ARE NOT APPARENT FROM SURFACE APPURTENANCES. THE TAPE OR WRE SHALL BE PLACED ONE FOOT ABOVE THE TOP OF PIPE (MAXIMUM DEPTH 4 FEET) SHALL EXTEND A MINIMUM OF 6 FEET IN EACH DIRECTION FROM THE ALIGN—MENT CHANGE AND SHALL BE SHOWN ON AS—BUILT PLANS.
- L. MECHANICAL JOINT OR RESTRAINED DUCTILE IRON PIPE SHALL BE USED FOR WATER LINE PROTECTION WHEN M.A.G. STAND— ARD DETAIL 404 IS SPECIFIED ON THE PLANS.
- M. VALVE BOX AND COVER GRADE LOCATED OUTSIDE OF A PAVED AREA SHALL BE SET ON TO TWO (1" – 2") INCHES ABOVE SIDE— WALK OR ADJACENT GRADE.
- N. NO VALVE SHALL BE LOCATED BENEATH SIDEWALK OR SIDE— WALK RAMP.

# CONSTRUCTION NOTES

- A. ALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS PUBLISHED BY THE [COUNTY] ASSOCIATION OF GOVERN-MENTS AND AS AMENDED BY THE TOWN OF [TOWN].
- B. THE CONTRACTOR SHALL NOTIFY THE TOWN OF [TOWN]
  ENGINEERING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE
  OF ANY CONSTRUCTION FOR INSPECTION.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE RELOCATION OF ALL EXISTING UTILITIES REQUIRED FOR THE PROPOSED CONSTRUCTION.
- D. THE CONTRACTOR SHALL ADJUST ALL VALVES, MANHOLES, CLEANOUTS, ETC., BOTH NEW AND OLD, TO FINISH PAVEMENT GRADE PER THESE PLANS AND STANDARD DETAILS.
- E. CONCRETE SPEC. M.A.G. STD SPEC. CLASS "B."

  CURB: M.A.G. STANDARD DETAIL 220 TYPE "A."

  SIDEWALK: M.A.G. STANDARD DETAIL 230.
- F. PAVING: AGGREGATE BASE COURSE;
  THICKNESS; TOWN OF [TOWN] STANDARD DETAIL [NUMBER].
  MATERIAL; CONFORMING TO SECTION 702.2 M.A.G. SPECS
- G. ASPHALTIC CONCRETE;

  THICKNESS; 21/2" MIN. PLACED IN TWO LIFTS.

  MATERIAL; CONFORMING TO M.A.G. STANDARD SPEC. 710.

  BASE COURSE; 11/2" C3/4" MIX / 5.5% OIL

  SURFACE COURSE: 1" D 1/2" MIX / 6.0% OIL

## GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT ADOPTED M.A.G. SPECIFICATIONS AND STANDARD DE-TAILS AS MODIFIED BY THE CITY OF [CITY]
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION.
  PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT—OF—WAY,
- THE CONTRACTOR/DEVELOPER SHALL NOTIFY THE STREET DI-VISION AT [PHONE]. THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBILITY FOR LOCATING, PROTECTING IN PLACE OR RE-LOCATING ALL CITY OWNED IRRIGATION AND LANDSCAPING MAT-ERIALS. ALL RELOCATIONS SHALL BE AS DIRECTED BY STREET DIVISION PERSONNEL
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACE-MENT AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION. THE CONTRACTOR SHALL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND SHALL ELIMINATE ALL CONFLICTS
  - PRIOR TO START OF CONSTRUCTION.

    THE CITY OF [CITY] IS NOT RESPONSIBILITY FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RE-
- NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL 4 MIL PHOTO MYLAR REPRODUCIBLE "AS-BUILT" PLANS CERTIFIED AND SEALED BY A REGISTERED CIVIL ENGINEER, HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER
- BACKFILLING SHALL NOT BE STARTED UNTIL LINES ARE APPROVED THE CITY ENGINEER.
- ALL BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH M.A.C. STANDARD SPECIFICATION 601, TYPE 1.
- DISPOSAL OF AND STOCKPILING OF EXCESS MATERIAL WITHIN THE [CITY] CITY LIMITS OR PLANNING AREA SHALL BE DONE IN SUCH A WAY THAT WILL NOT CREATE A NUISANCE AND SHALL COMPLY WITH ADMINISTRATIVE REGULATION NO. [NUMBER]. PLACING OF MATERIAL ON PRIVATE PROPERTY OF ANOTHER RE-QUIRES WRITTEN AUTHORIZATION.
- TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE [CITY] TRAFFIC BARRICADE MANUAL.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEAN-ING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RE SPONSIBILITY TO CLEAN STREETS, ALLEY DUST, AND TAKE WHAT-EVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
- APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. ALL PAVEMENT REPLACEMENT SHALL BE EITHER FULL-DEPTH OF A.B.C. OR A.B.C. SLURRY BACKFILL IN ACCORDANCE WITH THE CITY OF [CITY] STANDARD SPECIFICATION 4 AND M.A.G. STANDARD DETAIL 200, "T" TOP.
- AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROV-ED PLAN REVISION.
- A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET IS RE-QUIRED BETWEEN SEWER SERVICES AND WATER OR FIRELINE A MINIMUM HORIZONTAL SEPARATION OF SIX FEET IS REQUIRED BETWEEN RECLAIMED WATER SERVICES AND SEWER, WATER, OR FIRELINE SERVICES
- NO ABOVE GRADE FACILITY SHALL BE LOCATED CLOSER THAN SIX (6) FEET TO THE FACE OF CURB FOR POLES TWO & ONE HALF (2 1/2) INCHES, OR EQUIVALENT, IN DIAMETER OR LESS. I HEREBY CERTIFY THAT THE "AS—BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND
- IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

# SIGNING & STRIPING NOTES

- A. THE CITY TRAFFIC ENGINEER'S OFFICE SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK.
- B. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO [STATE] DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- C. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY ENGINEER TO IMPROVE VISIBILITY.
- D. ALL MEDIAN NOSES SHALL BE PAINTED YELLOW FROM TIP OF MEDIAN BACK 10 FEET.
- E. ALL RAISED PAVEMENT REFLECTORS SHALL BE INSTALLED WITH CRAFCO PAVEMENT REFLECTOR ADHESIVE, OR EQUAL.
- F. ALL TRAFFIC CONTROL SIGNS SHALL BE ATTACHED TO STREET LIGHT POLES IF THE POLE IS WITHIN 25 FEET OF SIGN LOCATION AS SHOWN ON THE SIGNING AND STRIP—ING PLANS.
- G. ALL CROSSWALKS, STOP BARS, AND LEFT/RIGHT TURN STRIPING SHALL BE THERMOPLASTIC.
- H. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING, UNLESS OTHERWISE NOTED.
- I. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CON-TRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY SIGN SHOP.

NOT TO SCALE

 $\frac{1}{1}$ 

# STREET LIGHT NOTES

- A. INSTALLATION PER CITY OF [CITY] STREET LIGHTING STANDARDS AND SPECIFICATIONS.
- B. THE [POWER COMPANY] CONNECTION FEE SHALL BE PAID BY THE DEVELOPER TO THE CITY AT TIME OF STREET LIGHT INSTALLATION PERMIT ISSUANCE. THE [POWER COMPANY] CONNECTION FEE, INCLUDING SALES TAX, IS: [FEE].
- C. THE CONSTRUCTION CONTRACTOR WILL COORDINATE HIS WORK WITH THE [POWER COMPANY] LIGHTING DIVISION PRIOR TO THE START OF CONSTRUCTION.
- D. POLES WILL NOT BE SET UNTIL [POWER COMPANY] CONDUCTOR IS IN PLACE.
- E. STREET LIGHT CONDUCTOR TRENCHES WILL NOT BE BACK—FILLED UNTIL INSPECTED AND APPROVED BY OFFSITE IN—SPECTOR.
- F. DESIGNS IN CONFORMANCE WITH APPENDIX "A" OF THE STREET LIGHTS STANDARDS SPECIFY G.E. POWER DOOR SERIES LUMINAIRE. APPROVED EQUALS ARE LISTED IN THE DESIGN MANUAL.
- G. ANY VARIANCE TO AN APPROVED LUMINAIRE SHALL REQUIRE A NEW DESIGN ACCOMPANIED WITH POINT—TO—POINT LIGHT—ING CALCULATIONS AT TEN FOOT INTERVALS INDICATING MAINTAINED FOOTCANDLE LEVELS BETWEEN LUMINARIES AND ACROSS THE WIDTH OF THE ROADWAY FOR APPROVAL BY THE CITY ENGINEER.
- H. POLES SHALL BE SET NO CLOSER THAN SIX (6) FEET FROM FACE OF CURB.
- I. THE JUNCTION BOX NEAREST A POLE SHALL BE LOCATED OUT OF THE PUBLIC RIGHT-OF-WAY IN A PUBLIC UTILITY EASEMENT UNLESS OTHERWISE DIRECTED.

# FLEXIBILITY STATEMENT

THE GRAPHIC SHOWN AS THE OVERALL DEVELOPMENT PLAN DEPICTS GENERAL LOCATIONS AND ILLUSTRATE CONCEPTS OF THE TEXTUAL PROVISIONS OF THE DEVELOPMENT PLAN. IN GRANTING PLAT APPROVAL, THE BOARD OF COUNTY COMMISSIONERS ALLOWS MINOR VARIATIONS FOR THE PURPOSE OF ESTABLISHING:

- A. FINAL ROAD AND PEDESTRIAN WALKWAY ALIGNMENTS
- B. FINAL CONFIGURATION OF LOT AND TRACT SIZES AND SHAPES
- C. FINAL BUILDING ENVELOPES
- D. FINAL ACCESS AND PARKING LOCATIONS
- E. LANDSCAPING ADJUSTMENTS

# SUMMARY CHART

TOTAL AREA = 22.455 ACRES = 978,139 SQ. FT.

USE AREA "A" - OPEN SPACE 410,000 SQ. FT.

USE AREA "B" - DEVELOPMENT SPACE

COMMERCIAL 256,000 SQ. FT.

RESIDENTIAL 96,000 SQ. FT.

OF WHICH 46,000 SQ. FT. IS FOR

DEED RESTRICTED EMPLOYEE HOUSING)

FLEXIBLE 4,000 SQ. FT.

(COMMERCIAL OR RESIDENTIAL)

PARKING 826 SPACES



NOT TO SCALE

01A - 2010

# STORM WATER RETENTION

TOTAL AREA WITHIN PARCEL = 247944 S.F.

PLUS AREA WITHIN CUL-DE-SACS = 14138 S.F.

TOTAL NET AREA = 262082 S.F.

IMPERVIOUS AREA BUILDING FOOTPRINT = 2195 S.F.

PAVING & HARD SURFACES = 50809 S.F.

TOTAL IMPERVIOUS = 53004 S.F.

PERVIOUS AREA ( 262082 LESS 53004 ) = 209078 S.F.

C.W. VALUE = (2195)(0.95)+(50809)(0.90)+(209078)(0.70)/262082 = C.W. = 0.74

RETENTION VOLUME REQUIRED = I X A X CW / 12

I = 3" (100YEAR / 24 HOUR STORM )

V = (3.0") (262082) (0.74) / 12 = 48485 C.F.

RETENTION VOLUME PROVIDED

RETENTION - EAST SIDE ALONG BLOCK FENCE = 41910 C.F.

RETENTION - WITHIN SHELTER AREA

132000 S.F. @ ONE INCH DEEP

<u>= 11000 C.F.</u>

TOTAL VOLUME PROVIDED

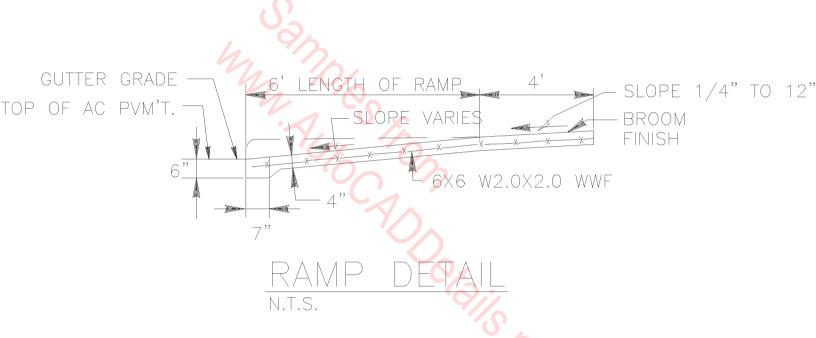
= 52910 C.F.

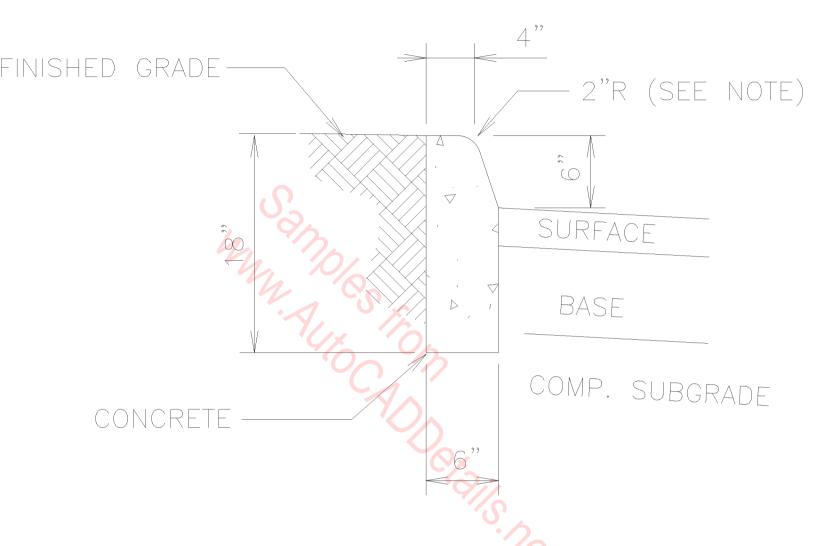
NOT TO SCALE

01A - 2011

# ADDITIONAL PROVISIONS

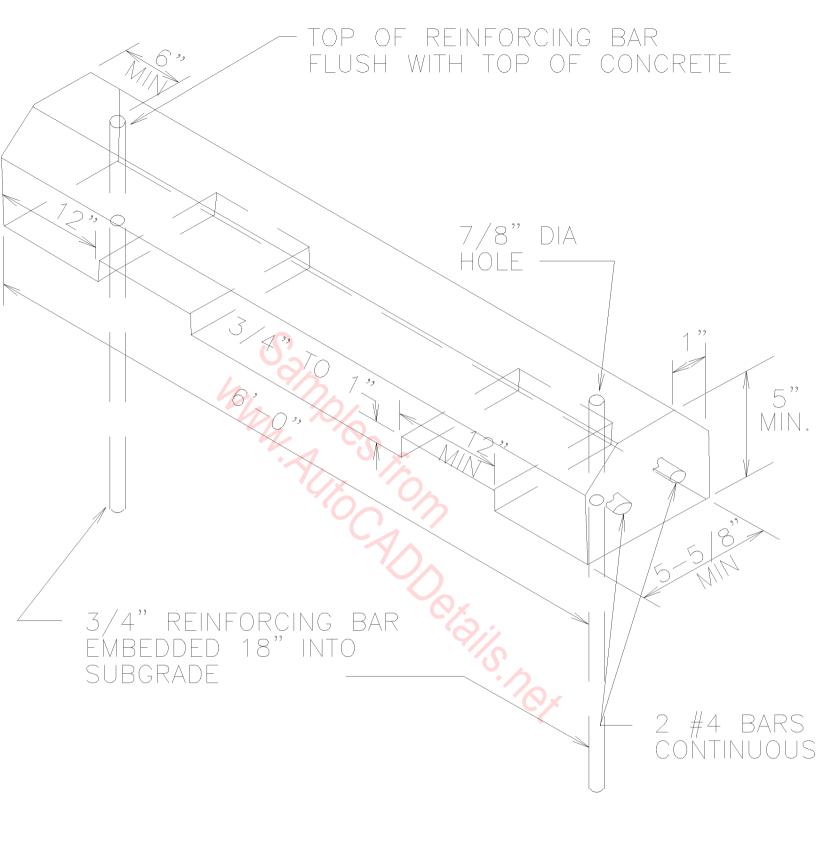
- A. MOVEMENT OF APPROVED COMMERCIAL AND RESIDENTIAL SPACE FROM ONE ENVELOPE TO ANOTHER MAY OCCUR PROVIDED THE TOTAL APPROVED SPACE ALLOCATIONS ARE NOT EXCEEDED.
- B. NO CHANGES ARE PERMITTED THAT WILL CHANGE THE PURPOSE OF THE PROJECT, WHICH IS DEFINED IN THE PUD CONTROL DOCUMENT AS "A TOWN CENTER FOR THE COMMUNITY OF [COMMUNITY], ALLOWING FOR FLEXIBILITY AND CREATIVITY IN THE DESIGN AND PHYSICAL ARRANGEMENT OF THE PROPOSED COMMERCIAL/RESIDENTIAL USES."
- C. ADDITIONAL PARKING SPACES MAY BE ADDED.
- D. THE TOTAL NUMBER OF BUILDINGS WILL BE FLEXIBLE PROVIDING THE TOTAL APPROVED SPACE COMMERCIAL, RESIDENTIAL AND FLEX SPACE IS NOT EXCEEDED.





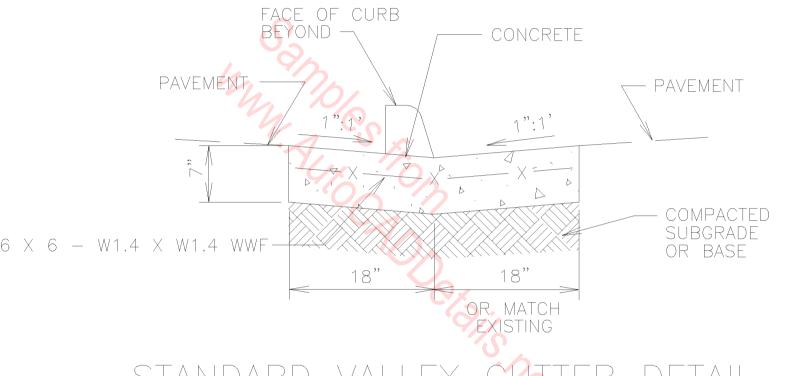
NOTE: STANDARD CURB SHAPE OF THE STATE IN WHICH THE PROJECT IS LOCATED MAY BE SUBSTITUTED.

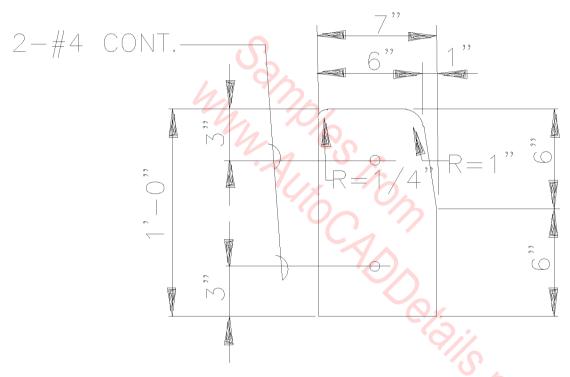
CURE N.T.S.



# PARKING BUMPER

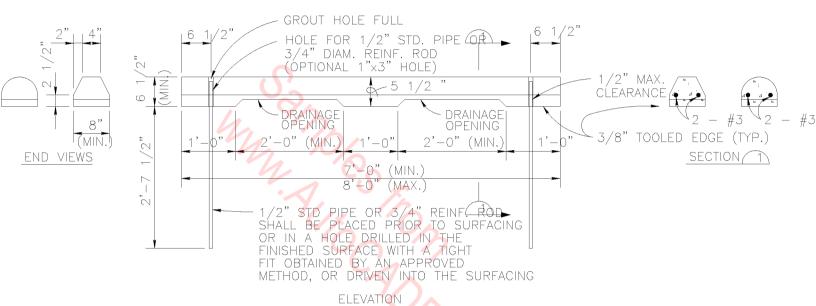
(PRECAST CONCRETE)





<u>Cast-in-place conc. curb</u>

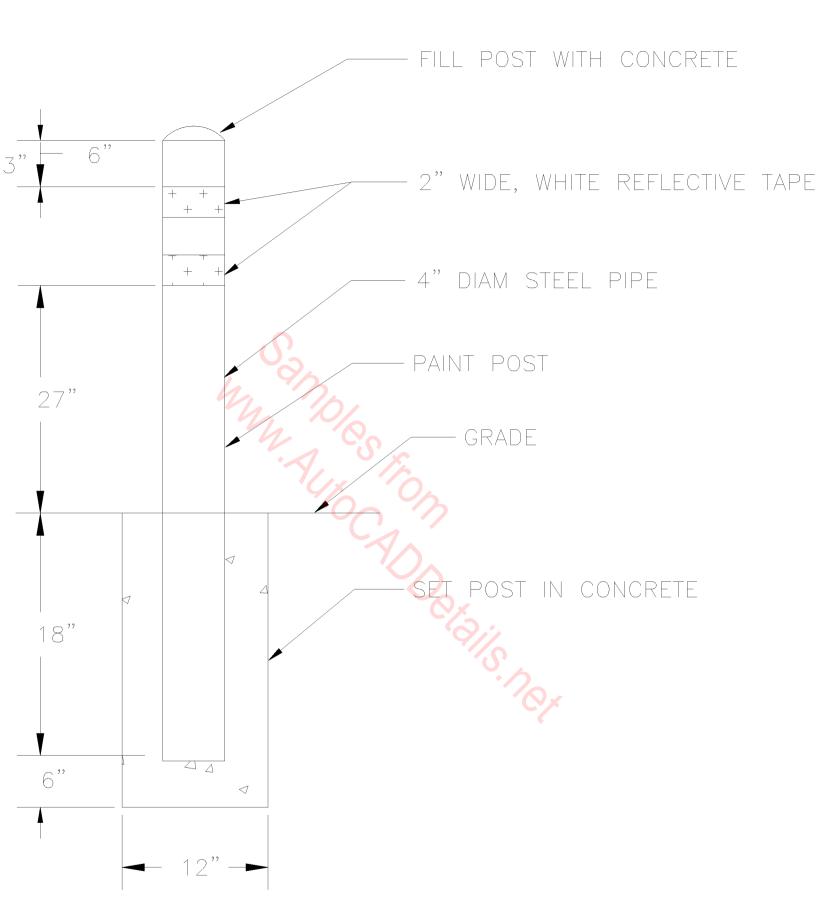




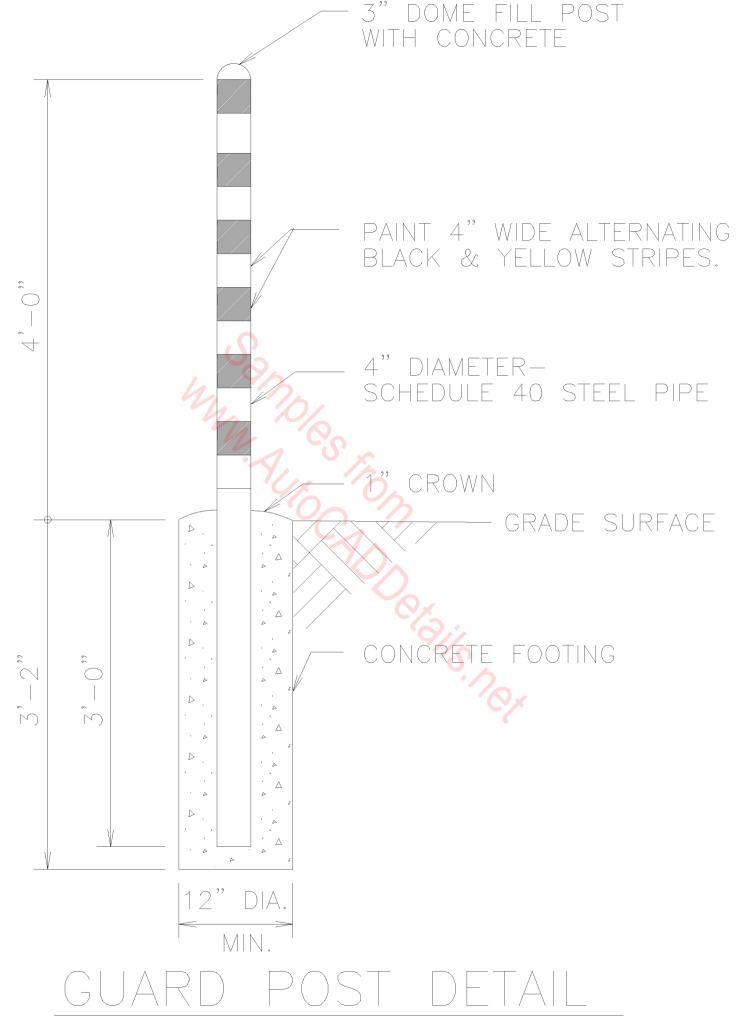
# 1'-0" TO EDGE OF PARKING STALL PAINTED STRIPES IF SHOWN ON THE DRAWINGS OR REQ'D BY THE SPECIFICATIONS

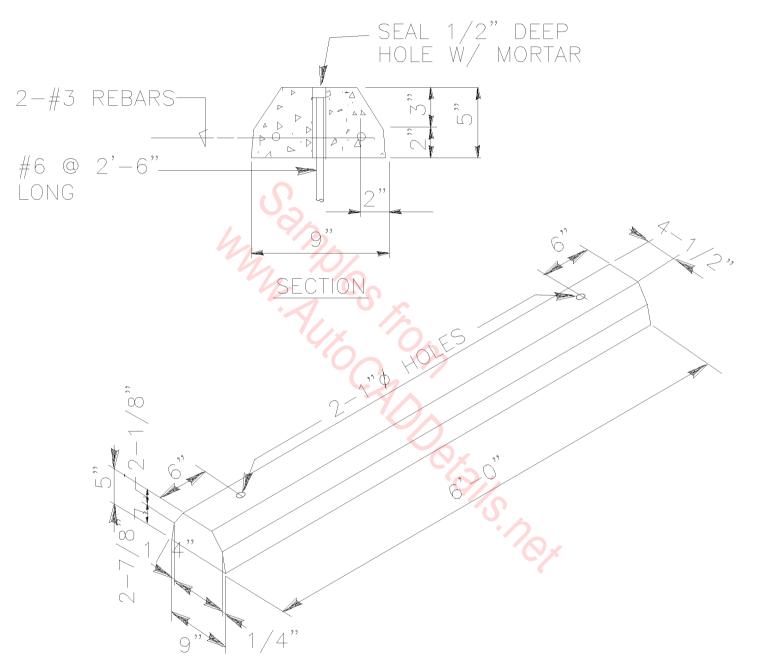
INSTALLATION PLAN

PRECAST CONCRETE WHEEL STOP DETAILS

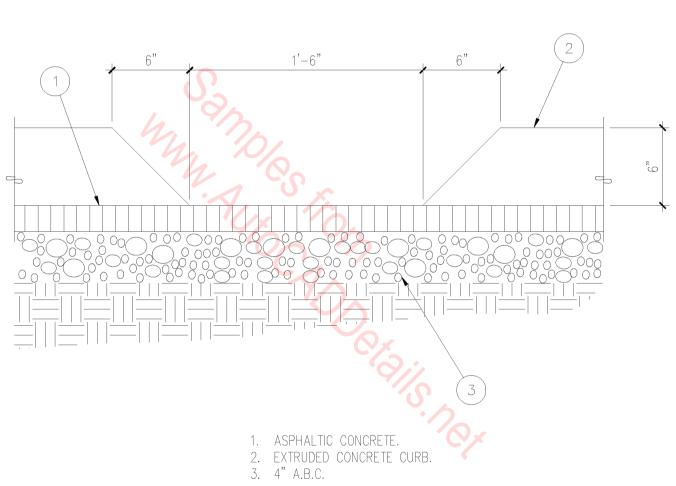


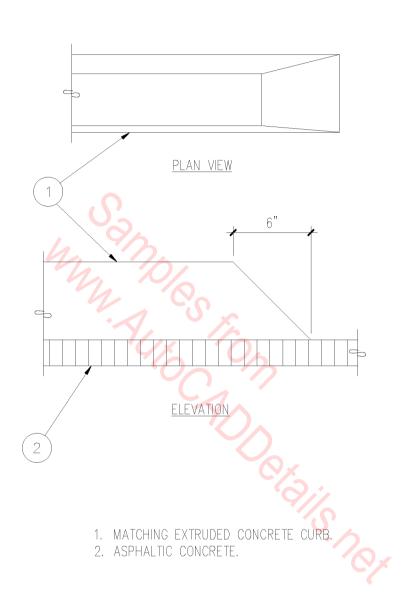
# TYPICAL BOLLARD DETAIL





PRECAST CONCRETE WHEEL STOP

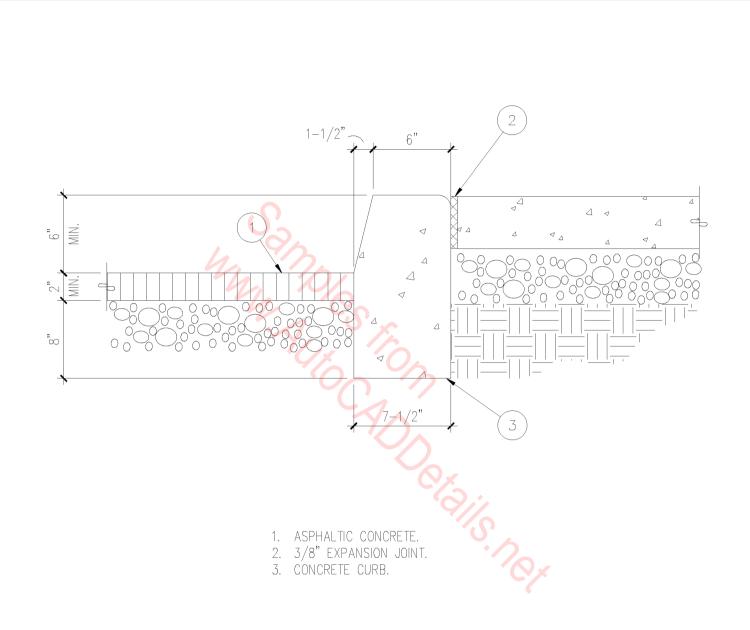




EXTRUDED CURB END

 $1 \ 1/2$ " = 1'-0"

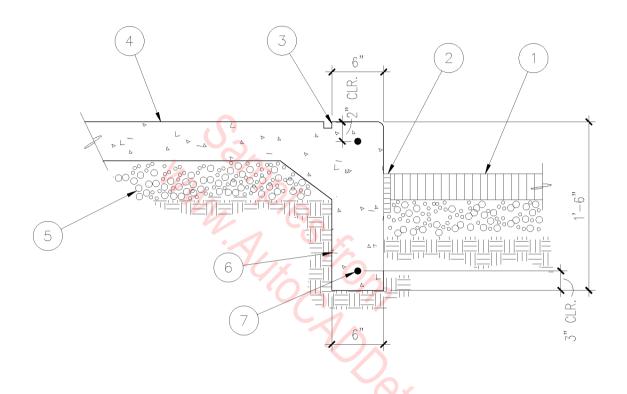
02A - 2002



# TYPICAL SIDEWALK CURB

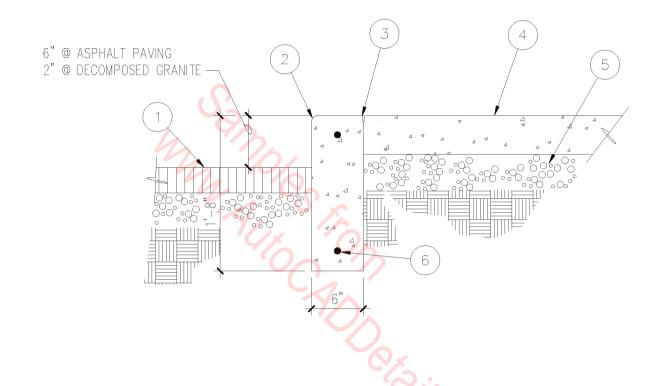
 $1 \ 1/2$ " = 1'-0"

02A - 2003

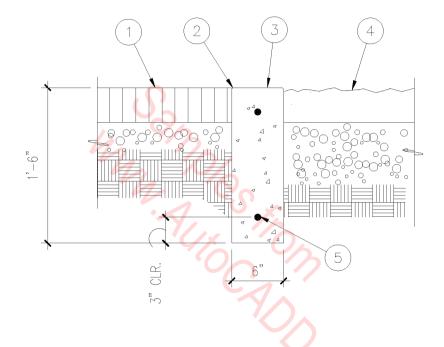


- ASPHALTIC CONCRETE OVER
  AGGREGATE BASE COURSE.
  1/2" ASPHALTIC IMPREGNATED
  EXPANSION JOINT.
  1/2" TOOLED JOINT.
  4" CONCRETE SLAB.
  AGGREGATE BASE COURSE.

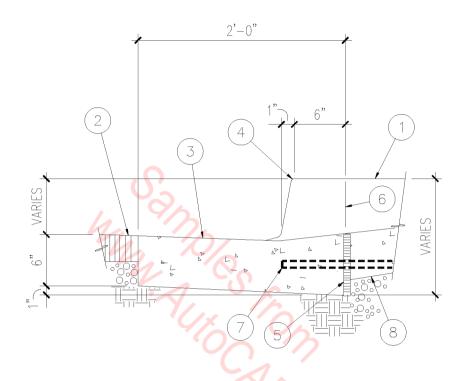
- 6. CONCRETE STEM MIN. 3" INTO SUB BASE.
- 7. (2) #4 REBARS CONTINUOUS.



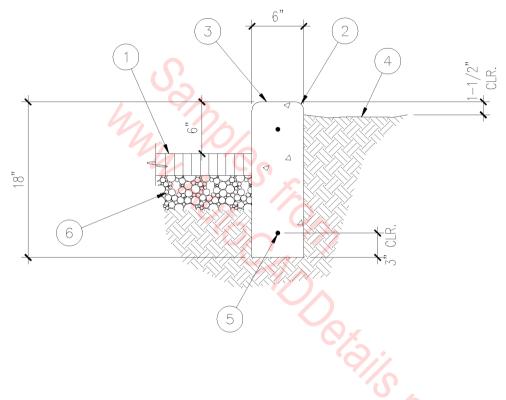
- ASPHALT OR DECOMPOSED GRANITE ON AGGREGATE BASE COURSE.
   RADIUS EDGE.
- 3. TOOLED JOINT.
- 4. CONCRETE SLAB ON A.B.C.
- 5. A.B.C. 6. (2) #4 REBARS CONTINUOUS.



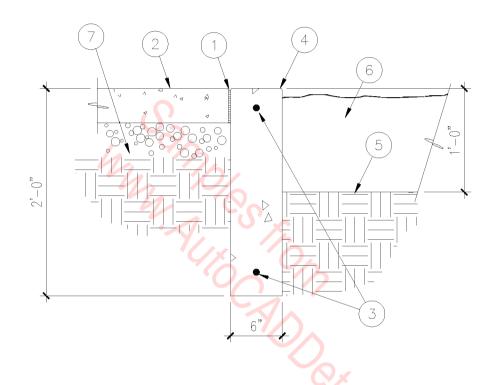
- ASPHALTIC CONCRETE OVER A.B.C.
   3/4" RADIUS.
   CONCRETE CURB.
   DECOMPOSED GRANITE FIRE LANE.
   (2) #4 REBARS CONTINUOUS.



- 1. CONCRETE CURB BEYOND.
- 2. ASPHALT PAVING OVER AGGREGATE BASE COURSE.
- 3. CONCRETE CURB AND GUTTER.
- 4. 3/4" RADIUS. 5. 1/2" X 6" ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL.
- 6. CONCRETE CURB SCORE LINE IN CURB BEYOND.
- 7. #4 REBARS 2'-0" LONG @ 18" O.C. MAX.
- 8. 5" CONCRETE SLAB ON 6" AGGREGATE BASE COURSE.



- 1. ASPHALTIC CONCRETE.
- TOOLED EDGE.
   CONCRETE CURB.
- 4. FINISH GRADE.
- 5. (2) #4 REBARS CONTINUOUS. 6. AGGREGATE BASE COURSE.

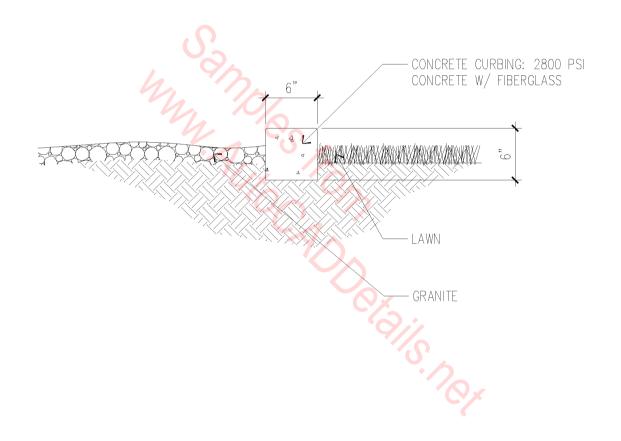


- TOOLED EDGE.
   CONCRETE SLAB
   ON A.B.C.

   CONCRETE CURB REINFORCEMENT
   WITH (2) #4 REBARS
   CONTINUOUS.

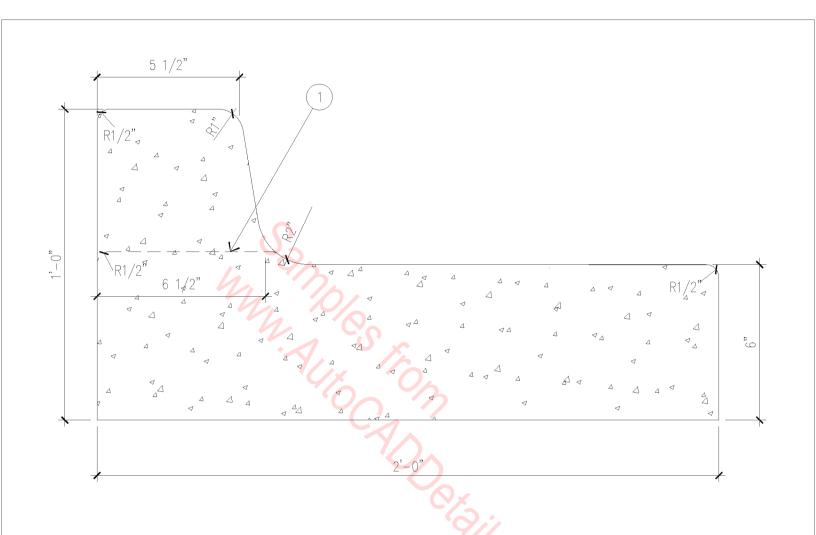
   RADIUS EDGE.
   FINISH GRADE.
   SAND

- 6. SAND. 7. SUB GRADE.



CURBING DETAIL

1" = 1'-0"

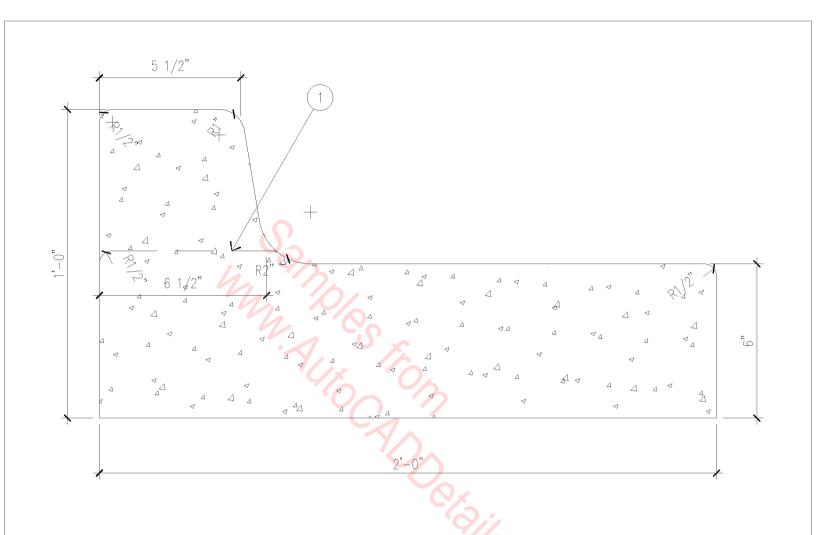


1. TOP OF CURB AT CURB CUT AND SIDEWALK WHERE BACK OF CURB ELEVATIONS ARE SHOWN ON PLANS.

# TYPICAL PRECAST CONCRETE CURB AND GUTTER DETAIL

3" = 1'-0"

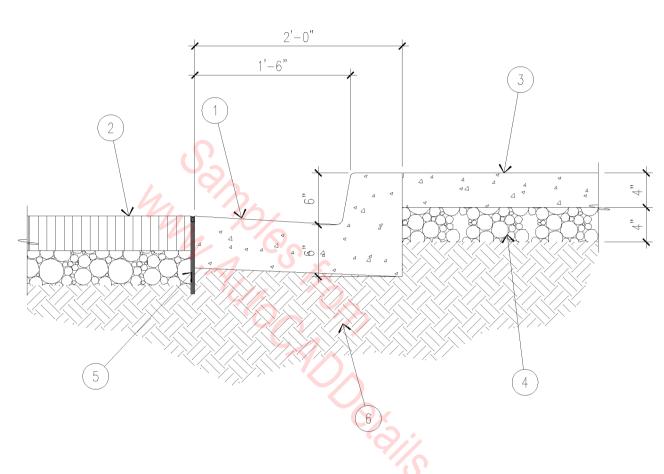
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1. TOP OF CURB AT CURB CUT AND SIDEWALK WHERE BACK OF CURB ELEVATIONS ARE SHOWN ON PLANS.

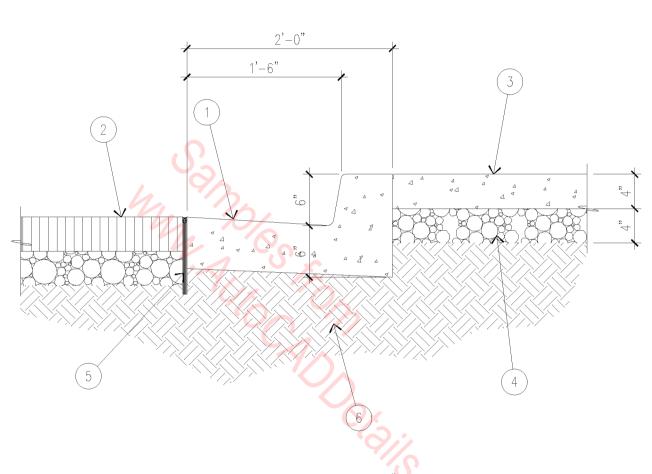
# TYPICAL PRECAST CONCRETE CURB AND GUTTER DETAIL

3" = 1'-0"



- CONCRETE CURB AND GUTTER.
   ASPHALTIC CONCRETE PAVEMENT.
   4" CONCRETE SIDEWALK.

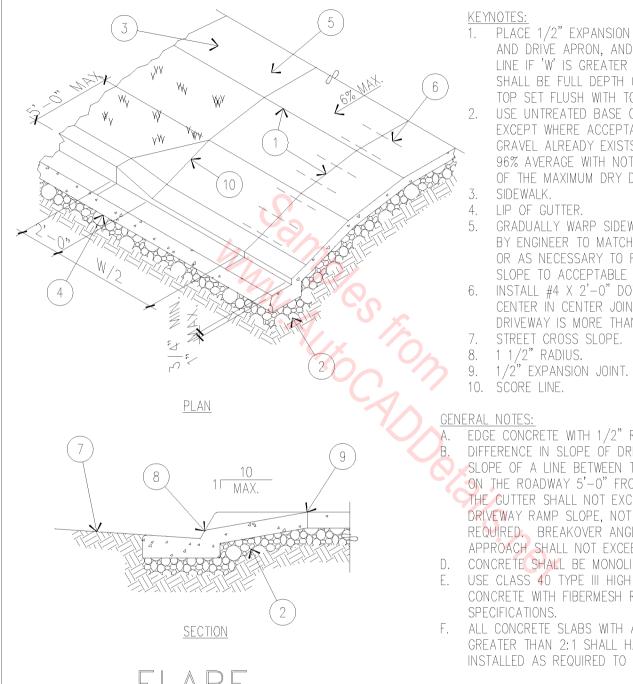
- 4. 4" ABC COMPACTED TO 95%.
- 5. EXPANSION JOINT MATERIAL.
- 6. UNDISTURBED SOIL.



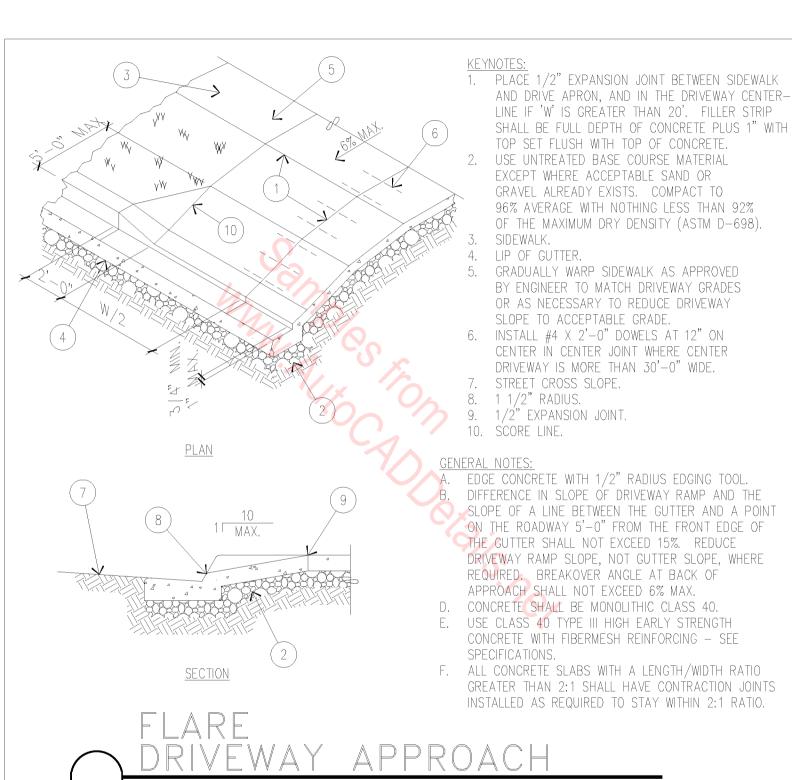
- CONCRETE CURB AND GUTTER.
   ASPHALTIC CONCRETE PAVEMENT.
   4" CONCRETE SIDEWALK.

- 4. 4" ABC COMPACTED TO 95%.
- 5. EXPANSION JOINT MATERIAL.6. UNDISTURBED SOIL.

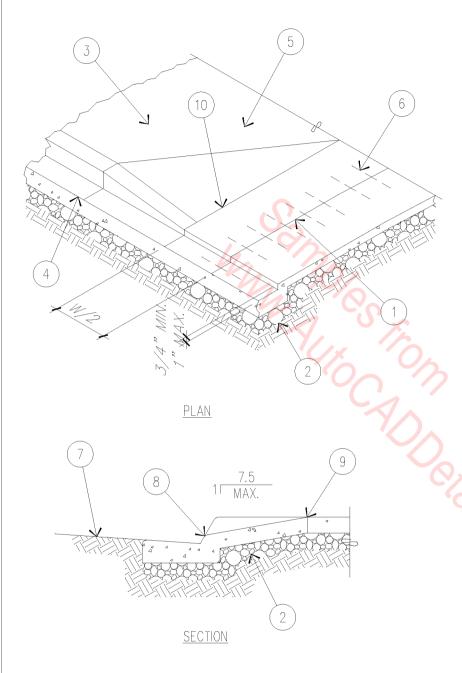
= 1'-0"



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE
- SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- CONCRETE SHALL BE MONOLITHIC CLASS 40.
- USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING - SEE
- ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN 2:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.



N.T.S.



- 1. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- 2. USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- 3. SIDEWALK.
- 4. LIP OF GUTTER.
- 5. GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- 6. INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- 7. STREET CROSS SLOPE.
- 8. 1 1/2" RADIUS.
- 9. 1/2" EXPANSION JOINT.
- 10. STRAIGHT SCORE LINE.

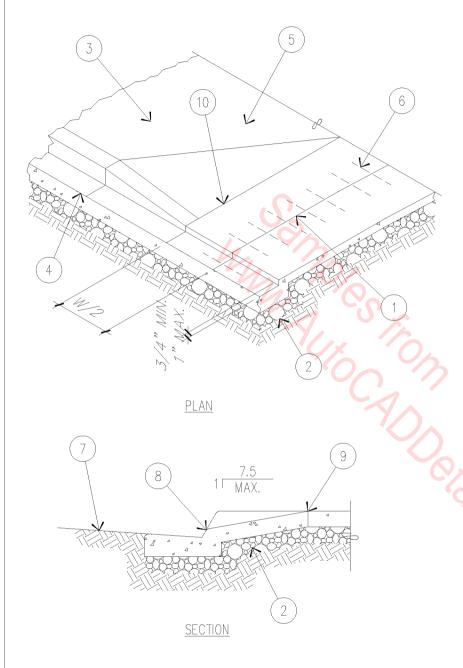
#### GENERAL NOTES:

- A. EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- B. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- C. CONCRETE SHALL BE MONOLITHIC CLASS 40.
- D. USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING SEE SPECIFICATIONS.

## DIP DRIVEWAY APPROACH

N.T.S.

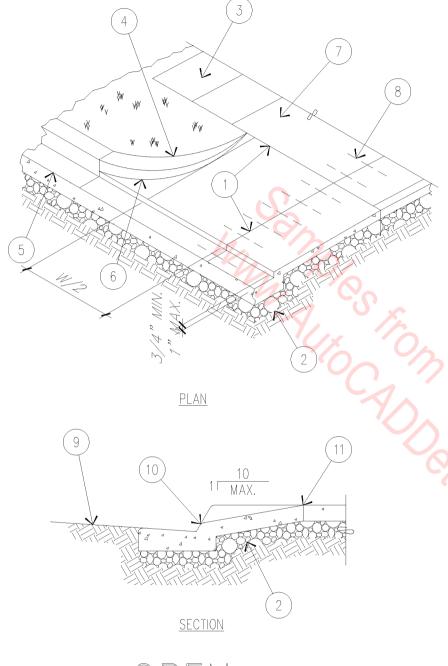
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- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- LIP OF GUTTER. 4.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE. 1 1/2" RADIUS.
- 8.
- 1/2" EXPANSION JOINT.
- 10. STRAIGHT SCORE LINE.

#### GENERAL NOTES:

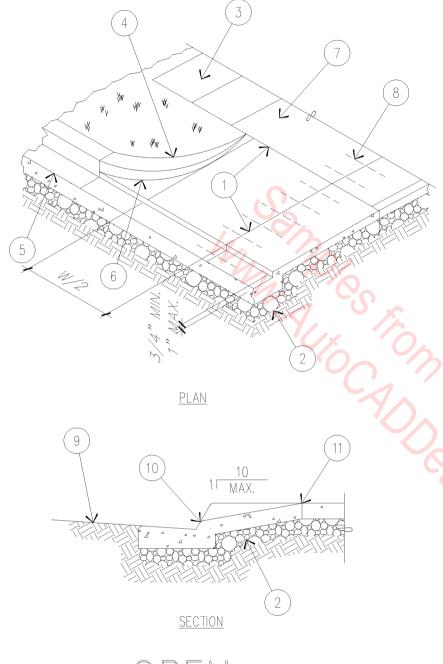
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- CONCRETE SHALL BE MONOLITHIC CLASS 40.
- USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING -SEE SPECIFICATIONS.



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- 5'-6" MAXIMUM RADIUS.
- LIP OF GUTTER.
- CURB RETURN.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE.
- 10. 1 1/2" RADIUS.11. 1/2" EXPANSION JOINT.

#### GENERAL NOTES:

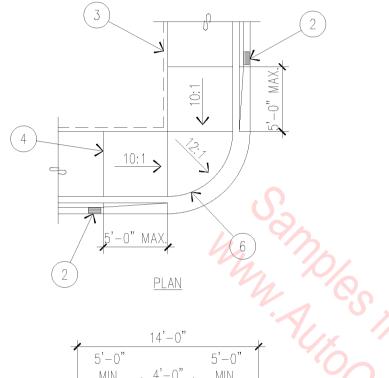
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- LIP MAY BE ELIMINATED IF DESIRED.
- CONCRETE SHALL BE MONOLITHIC 4,000 P.S.I. REINFORCED WITH POLYPROPYLENE MULTI-FILAMENT FIBERS.

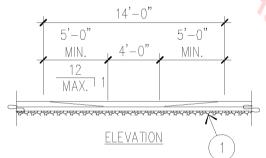


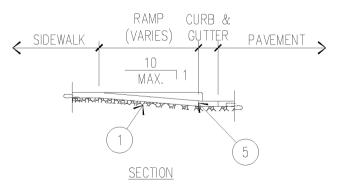
- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- 5'-6" MAXIMUM RADIUS.
- LIP OF GUTTER.
- CURB RETURN.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE.
- 10. 1 1/2" RADIUS.11. 1/2" EXPANSION JOINT.

### GENERAL NOTES:

- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE €UTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- LIP MAY BE ELIMINATED IF DESIRED.
- CONCRETE SHALL BE MONOLITHIC 4,000 P.S.I. REINFORCED WITH POLYPROPYLENE MULTI-FILAMENT FIBERS.







- 1. UNDER RAMP USE UNTREATED BASE COURSE MATERIAL ONLY WHERE EXISTING SOIL IS UNSATISFACTORY AND WHERE USE IS PROPERLY APPROVED.
- 2. LOCATE THE INLET GRATE 2" MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
- 3. WHERE EXISTING GROUND BEHIND SIDEWALK IS TOO HIGH TO ALLOW SIDEWALK TO RAMP DOWN, GRADE GROUND TO ACCEPTABLE SLOPE OR INSTALL CURB WALL AS REQUIRED.
- 4. EXPANSION JOINT (TYPICAL).
- 5. CONSTRUCTION JOINT.
- 6. CONSTRUCTION JOINT OR POUR MONOLITHICALLY AT CONTRACTOR'S OPTION.

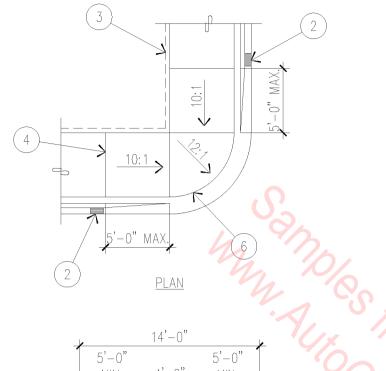
## GENERAL NOTES:

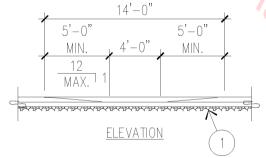
- A. USE 4,000 P.S.I. CONCRETE.
- B. SLOPES SHOWN AS 12:1 SHALL BE MEASURED USING THE AVERAGE GRADE OF THE CLOSEST 50' OF SIDEWALK UPHILL FROM THE RAMP AS A HORIZONTAL REFERENCE (BY DEFINITION). WHERE THE AVERAGE GRADE IS LESS THAN 12:1 OR HAS A NEGATIVE SLOPE, THE SIDEWALK RAMP SHALL BE CONSTRUCTED AS 12:1 FROM ACTUAL HORIZONTAL.
- C. ALTERNATE LOCATION OF HANDICAP RAMP FOR STREETS WITH P.T. CURVE RADIUS OF LESS THAN 25 FEET AND WITH SLOPES GREATER THAN 10% USED WITH PROPER APPROVAL.
- D. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2".
- E. USE FINE HAIR BROOM TO FINISH ON GRADES UNDER 6%. OVER 6% GRADE, USE ROUGH HAIR BROOM.
- F. SLOPES SHOWN ARE MAXIMUM SLOPES.

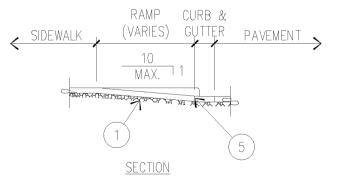
SIDEWALK RAMP

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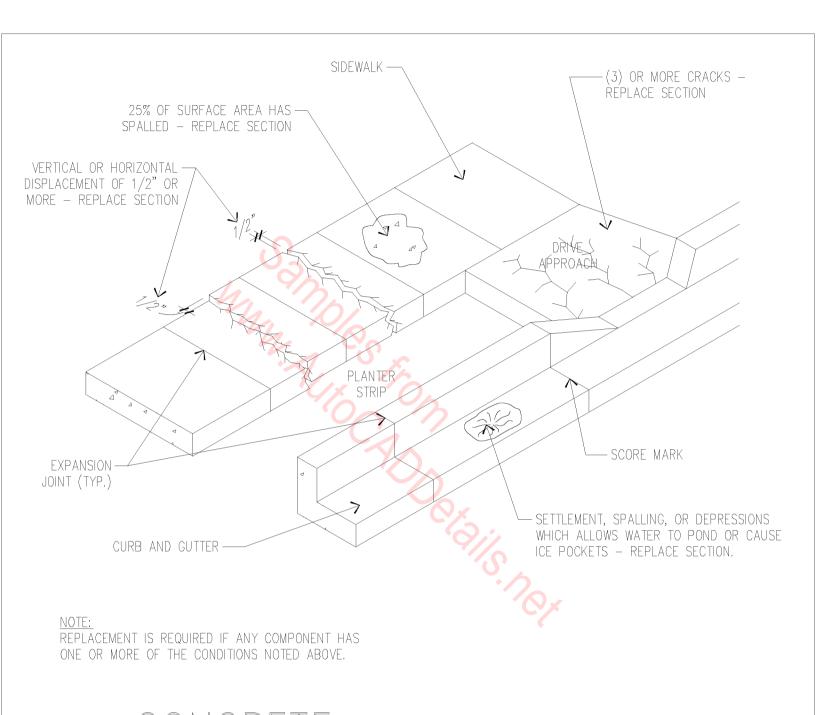
- 1. UNDER RAMP USE UNTREATED BASE COURSE MATERIAL ONLY WHERE EXISTING SOIL IS UNSATISFACTORY AND WHERE USE IS PROPERLY APPROVED.
- 2. LOCATE THE INLET GRATE 2" MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
- 3. WHERE EXISTING GROUND BEHIND SIDEWALK IS TOO HIGH TO ALLOW SIDEWALK TO RAMP DOWN, GRADE GROUND TO ACCEPTABLE SLOPE OR INSTALL CURB WALL AS REQUIRED.
- 4. EXPANSION JOINT (TYPICAL).
- 5. CONSTRUCTION JOINT.
- 6. CONSTRUCTION JOINT OR POUR MONOLITHICALLY AT CONTRACTOR'S OPTION.

### GENERAL NOTES:

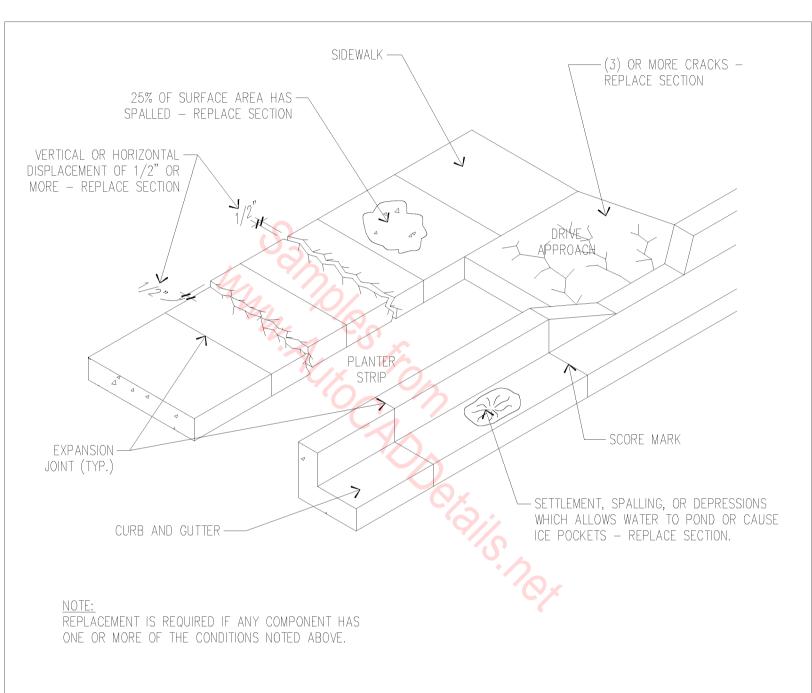
- A. USE 4,000 P.S.I. CONCRETE.
- B. SLOPES SHOWN AS 12:1 SHALL BE MEASURED USING THE AVERAGE GRADE OF THE CLOSEST 50' OF SIDEWALK UPHILL FROM THE RAMP AS A HORIZONTAL REFERENCE (BY DEFINITION). WHERE THE AVERAGE GRADE IS LESS THAN 12:1 OR HAS A NEGATIVE SLOPE, THE SIDEWALK RAMP SHALL BE CONSTRUCTED AS 12:1 FROM ACTUAL HORIZONTAL.
- C. ALTERNATE LOCATION OF HANDICAP RAMP FOR STREETS WITH P.T. CURVE RADIUS OF LESS THAN 25 FEET AND WITH SLOPES GREATER THAN 10% USED WITH PROPER APPROVAL.
- D. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2".
- E. USE FINE HAIR BROOM TO FINISH ON GRADES UNDER 6%. OVER 6% GRADE, USE ROUGH HAIR BROOM.
- F. SLOPES SHOWN ARE MAXIMUM SLOPES.

SIDEWALK RAMP

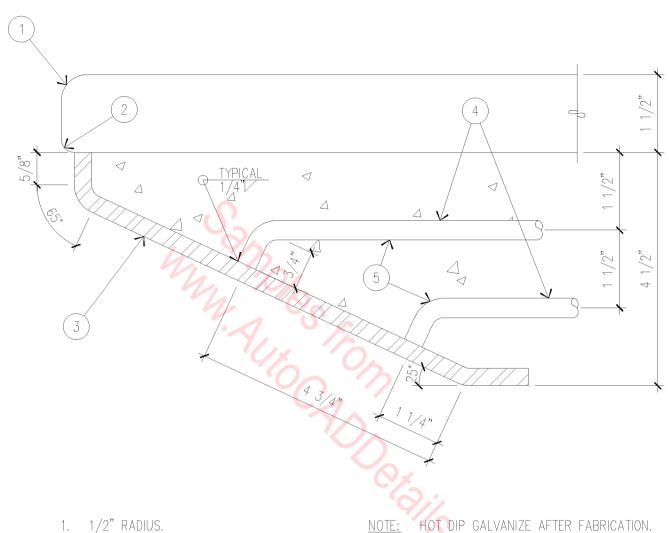
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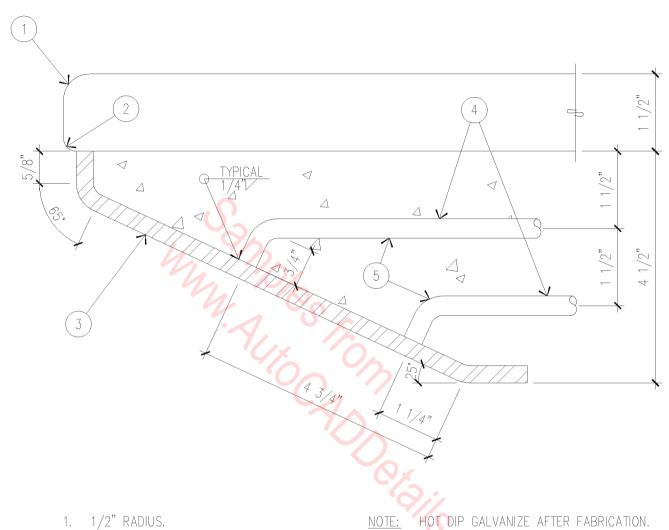






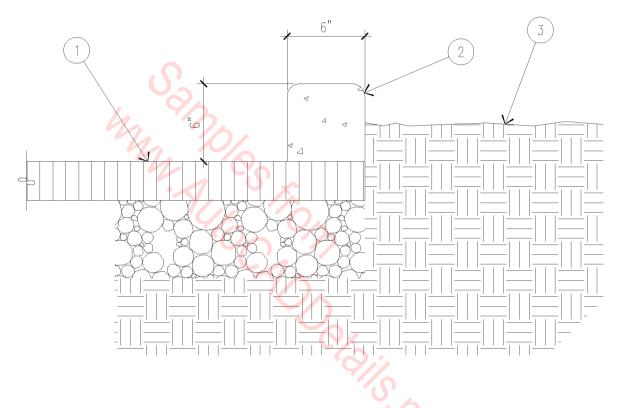
1. 1/2" RADIUS.
2. 1/4" RADIUS
3. 5/15" X 10" PLATE (ASTM A36),
BENT AS SHOWN.
4. #3 X 9" AT 24" O.C.
5. STAGGER ANCHORS.

= 1'-0''

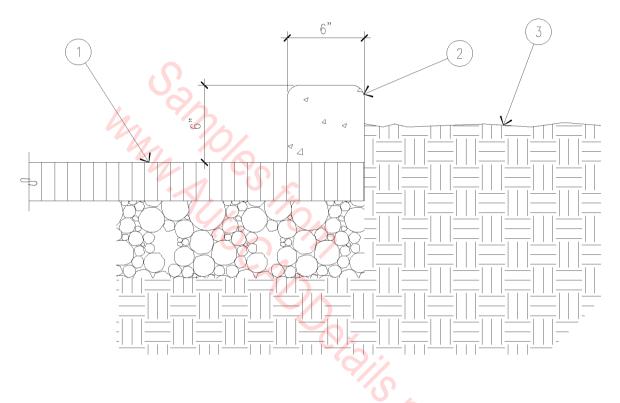


1. 1/2" RADIUS.
2. 1/4" RADIUS
3. 5/15" X 10" PLATE (ASTM A36),
BENT AS SHOWN.
4. #3 X 9" AT 24" O.C.
5. STAGGER ANCHORS.

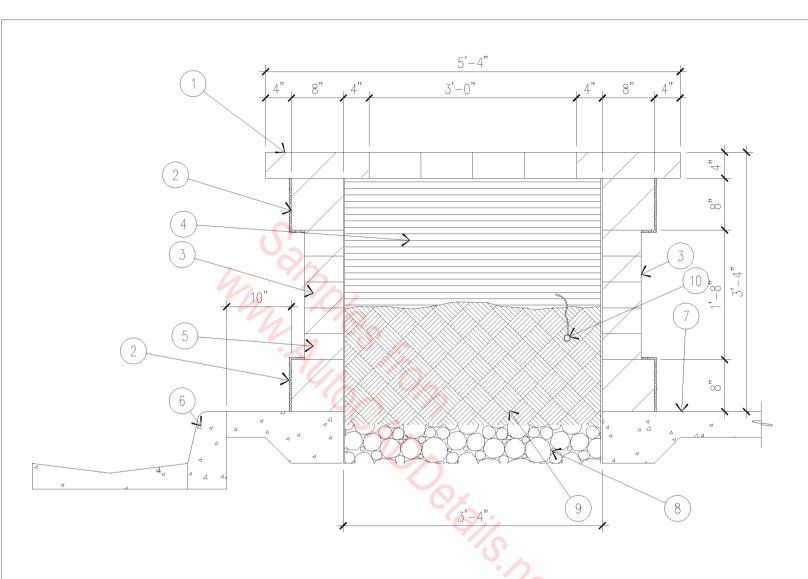
= 1'-0"



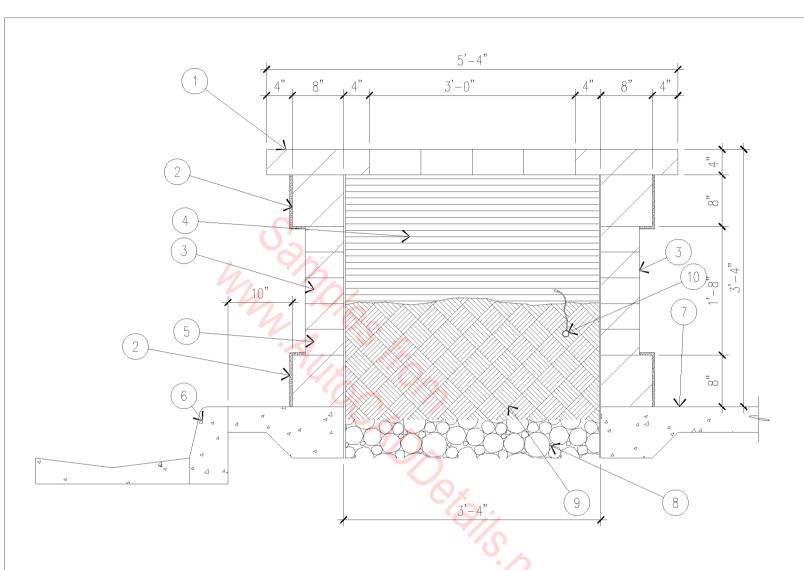
- ASPHALT PAVEMENT ON BASE COURSE.
   6" EXTRUDED CURB ON ASPHALT.
   FINISHED GRADE.



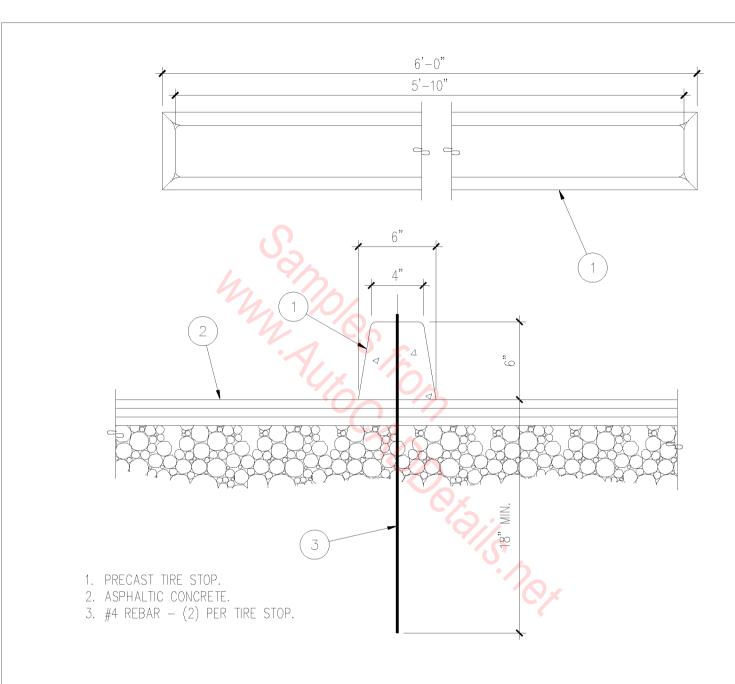
- ASPHALT PAVEMENT ON BASE COURSE.
   6" EXTRUDED CURB ON ASPHALT.
   FINISHED GRADE.



- 1. 4" X 8" X 16" 'FOUNDERS BLOCK' CAP. 2. 8" X 8" X 16" CMU WITH 3/8" CEMENT STUCCO FINISH.
- 3. 6" X 4" X 16" 'FOUNDERS BLOCK.'
- 4. WATERPROOF INTERIOR WITH TAR.
- 5. NO END MORTAR IN FIRST ROW ON STREET SIDE ONLY - LEAVE GAP OPEN FOR WEEP.
- 6. EXISTING CURB AND GUTTER.
- 7. SIDEWALK.
- 8. 6" OF GRAVEL FILL IN BOTTOM OF PLANTER.
- 9. TOP SOIL FILL FOR PLANTS AND TREES.
- 10. IRRIGATION LINE.



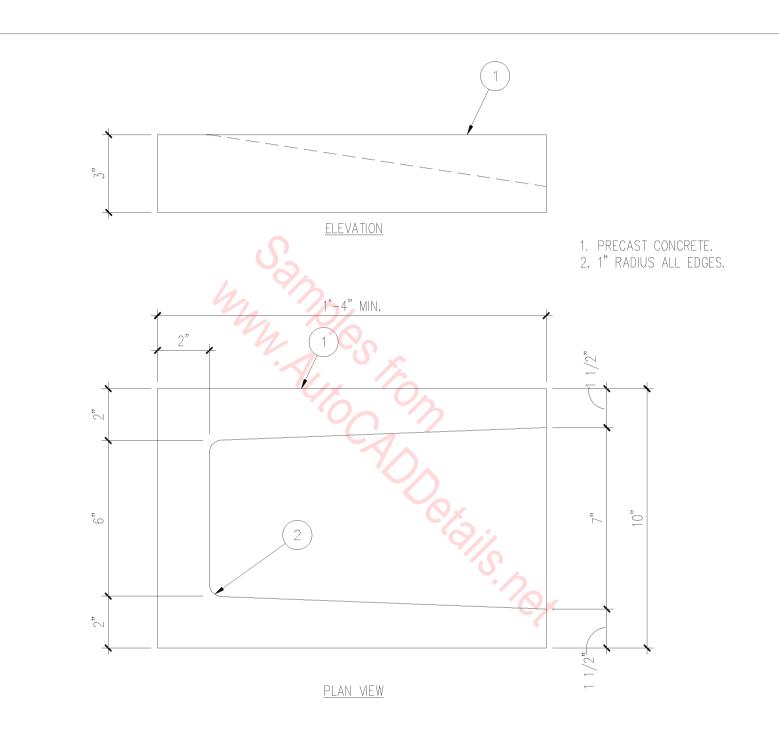
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- 9. TOP SOIL FILL FOR PLANTS AND TREES.
- 10. IRRIGATION LINE.

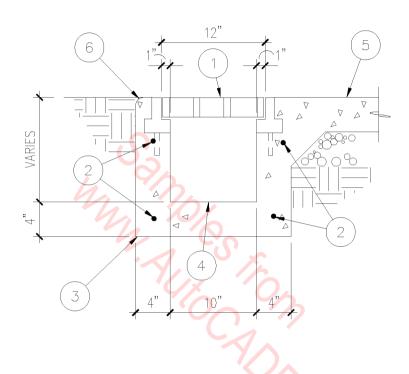


PRECAST TIRE STOP

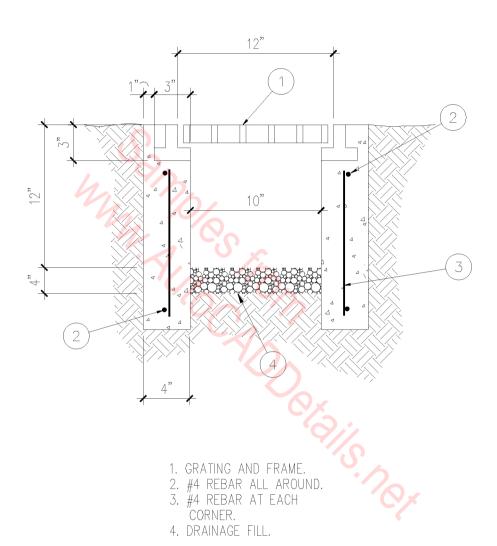
 $1 \ 1/2$ " = 1'-0"

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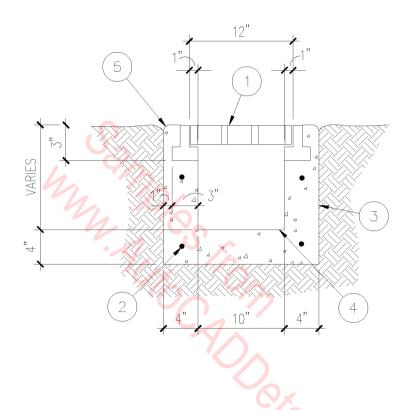


- 1. HEAVY DUTY GRATE & FRAME.
- 2. #4 REBARS CONTINUOUS TOP & BOTTOM. 3. C.I.P CONCRETE TRENCH
- DRAIN.
- 4. CONSTRUCT END OF TRENCH DRAINS SIMILAR TO SIDE CONSTRUCTION.
- 5. CONCRETE SLAB ON SUBGRADE.6. 1" RADIUS.



OPEN TRENCH DRAIN

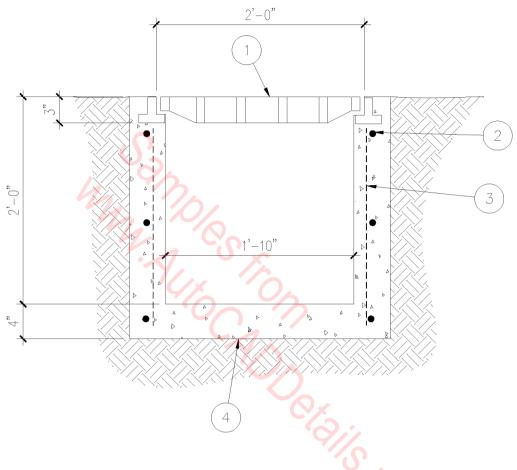
 $1 \ 1/2$ " = 1'-0"



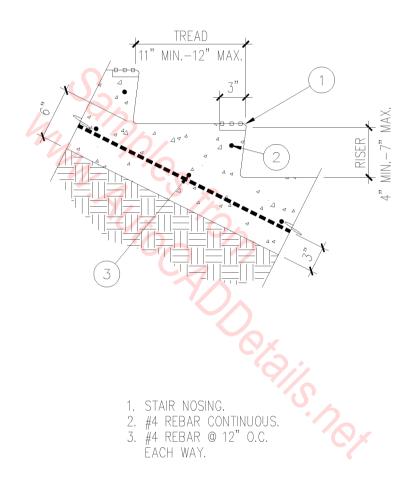
- 1. HEAVY DUTY GRATE
- & FRAME.

  2. #4 REBAR CONTINUOUS
  TOP & BOTTOM.

  3. C.I.P. CONCRETE TRENCH
- DRAIN.
- 4. CONSTRUCT END OF TRENCH DRAINS SIMILAR TO SIDE CONSTRUCTION.
  5. 1" RADIUS.

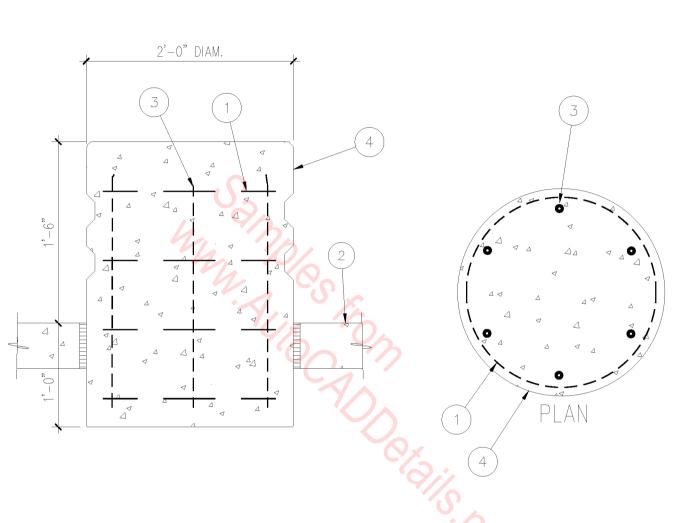


- GRATING AND FRAME.
   #4 REBAR AT 12" EACH WAY.
   #4 REBAR AT EACH CORNER.
   CONCRETE.

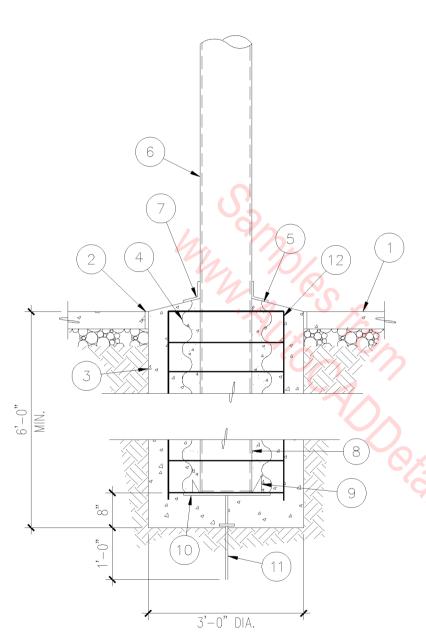


## EXTERIOR STAIRS

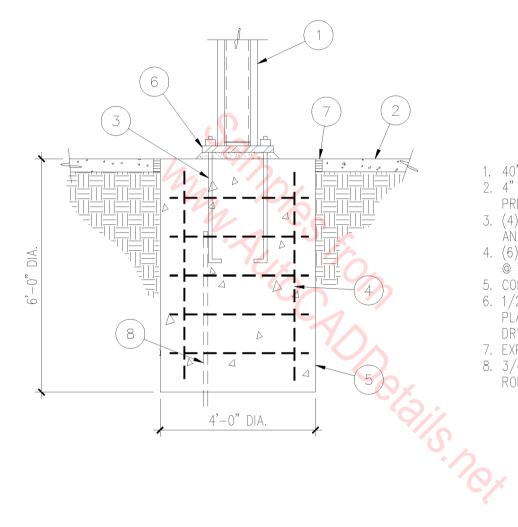
1" = 1'-0"



- #2 TIES @ 8" O.C.
   CONCRETE SLAB ON SUBGRADE.
   (6) #4 REBARS.
   SMOOTH FINISH.

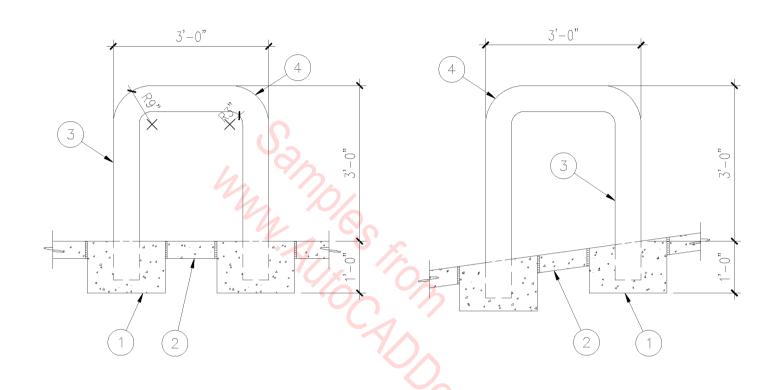


- CONCRETE SLAB ON A.B.C. FILL. 1/2" EXPANSION JOINT MATERIAL.
- CONCRETE FOOTING.
- 4. PACK WITH CLEAN DRY SAND.
- BITUMINOUS SEALANT. 40'-0" TALL ALUMINUM FLAGPOLE.
- FLASHING COLLAR.
- G.I. SLEEVE VERIFY SIZE WITH POLE MANUFACTURER.
- 9. STEEL WEDGES AS PART OF SLEEVE.
  10. 1/4" STEEL PLATE AS PART OF SLEEVE.
- 11.. LIGHTNING ROD AS PART OF SLEEVE.
- 12. (6) #7 REBARS & #3 TIES @ 16" O.C.



- 1. 40'-0" FLAGPOLE.
- 2. 4" CONCRETE SLAB ON
- PREPARED SUBGRADE.

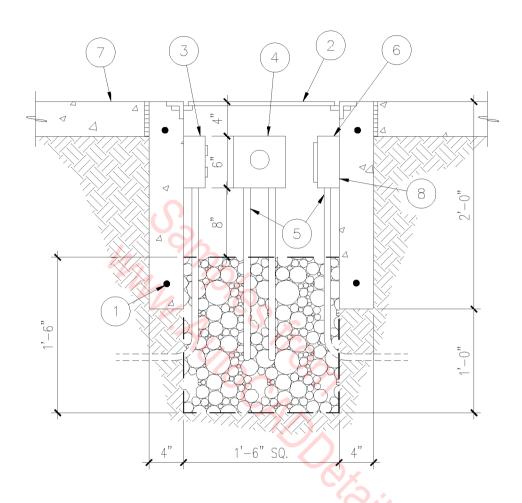
  3. (4) 1" DIA. x 36"
  ANCHOR BOLTS.
- 4. (6) #6 REBAR WITH #3 TIES @ 12" O.C.
- 5. CONCRETE FOOTING. 6. 1/2" x 20" SQ. STEEL PLATE ON 1/2" OF DRYPACK.
- 7. EXPANSION JOINT. 8. 3/4" GALVANIZED IRON GROUND ROD.



- 1. 18" SQ. X 12" DEEP CONCRETE FOOTING.
   2. CONCRETE SLAB ON SUBGRADE.
   3. 6" Ø PIPE RAILING.
   4. FLUSH WELD 6" STANDARD WEIGHT STEEL ELBOWS AT CORNERS.

NOTE: INSTALL IN FIELD AT 30" O.C.

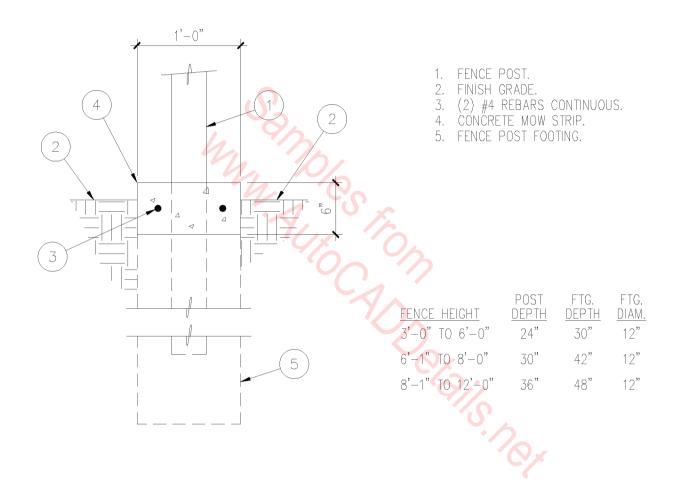




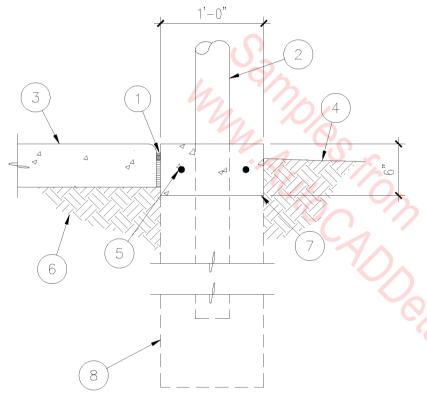
- 1. #4 REBAR CONTINUOUS ALL AROUND.
- 2. "18" X 18" FLUSH HINGED MANHOLE COVER WITH PADLOCK.
- 3. DUPLEX OUTLET IN WATERPROOF BOX - SEE ELECTRICAL.
- 4. MIC OUTLET IN WATERPROOF BOX-SEE ELECTRICAL.
- 5. CONDUITS-SEE ELECTRICAL.

- 6. WATERPROOF BOX WITH COVER FOR FIELD INTERCOM SYSTEM—
  SEE ELECTRICAL.
- 7. CONCRETE SLAB OVER SUB-GRADE.
- 8. SCOREBOARD CONTROL WIRES IN WATERPROOF J-BOX ON SIDE OF MANHOLE-SEE ELECTRICAL.

## ELECTRICAL PIT BOX

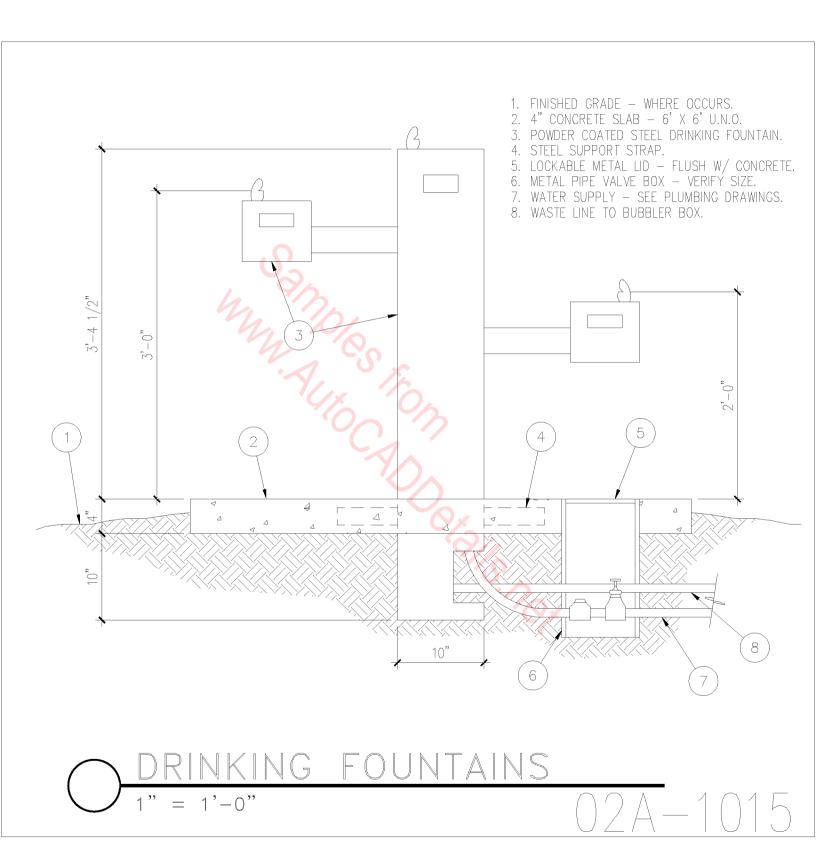


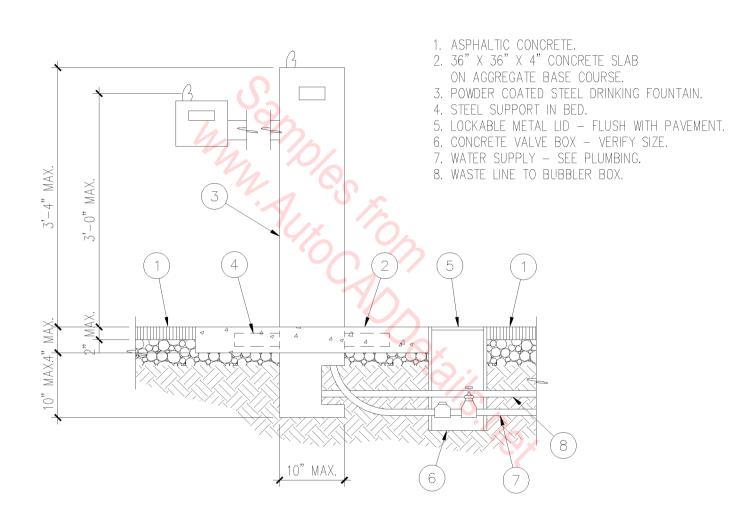
# $O\frac{CHAINLINK FENCE FOOING}{1" = 1'-0"}$



- 1" EXPANSION JOINT.
- FENCE POST SEE TABLE.
- CONCRETE SLAB WITH SYNTHETIC REINFORCING FIBERS.
- FINISH GRADE.
- (2) #4 REBARS CONTINUOUS. SUBGRADE.
- 6.
- CONCRETE MOW STRIP -SCORE AT 48" O.C.
- FENCE FOOTING -SEE TABLE BELOW.

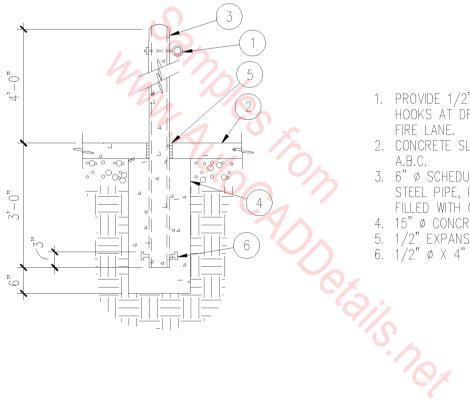
	POST	FTG.	FTG.
FENCE HEIGHT	<u>DEPTH</u>	<u>DEPTH</u>	<u>DIAM.</u>
3'-0" TO 6'-0"	24"	30"	12"
6'-1" TO 8'-0"	30"	42"	12"
8'-1" TO 12'-0"	36"	48"	12"



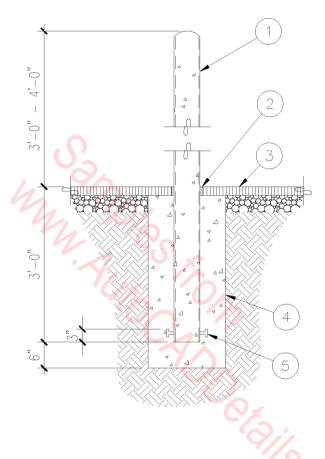


### DRINKING FOUNTAINS

3/4" = 1'-0"

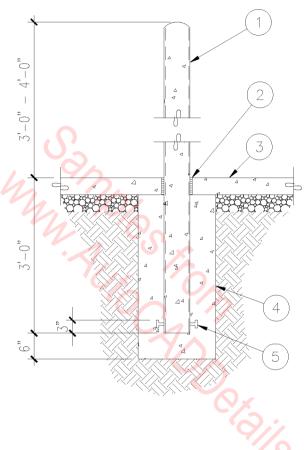


- 1. PROVIDE 1/2" Ø EYE HOOKS AT DRIVEWAY & FIRE LANE.
- 2. CONCRETE SLAB ON
- A.B.C.
  3. 6" Ø SCHEDULE 40
  STEEL PIPE, PAINTED &
  FILLED WITH CONCRETE.
- 4. 15" Ø CONCRETE FOOTING. 5. 1/2" EXPANSION JOINT. 6. 1/2" Ø X 4" STUDS.



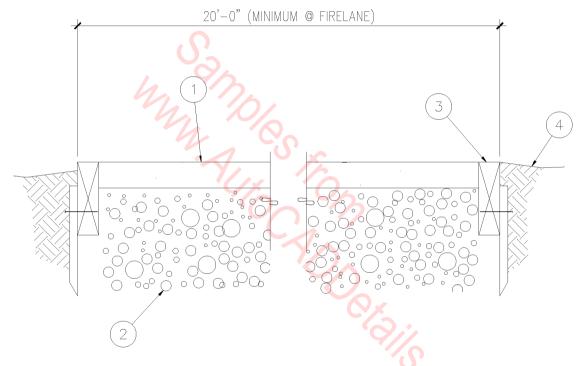
- 6" Ø STEEL PIPE
   PAINTED & FILLED WITH
   CONCRETE.
   1/2" EXPANSION JOINT.
   ASPHALTIC CONCRETE PAVEMENT.
   18" Ø CONCRETE FOOTING.
   1/2" Ø X 4" STUDS.

1/2" = 1'-0"

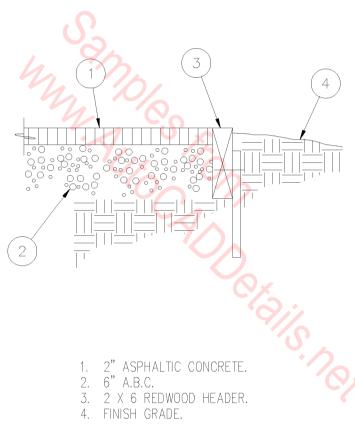


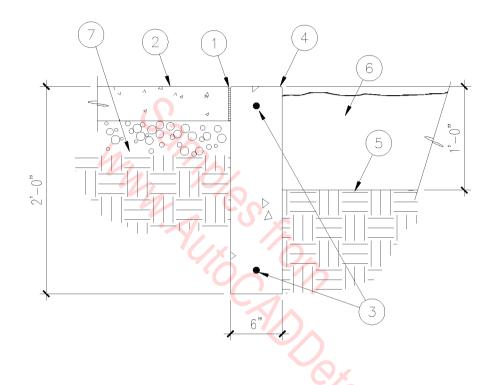
- 6" Ø STEEL PIPE
   PAINTED & FILLED WITH
   CONCRETE.
   1/2" EXPANSION JOINT.
   CONCRETE SLAB ON A.B.C.
   18" Ø CONCRETE FOOTING.
   1/2" Ø X 4" STUDS.

1/2" = 1'-0"



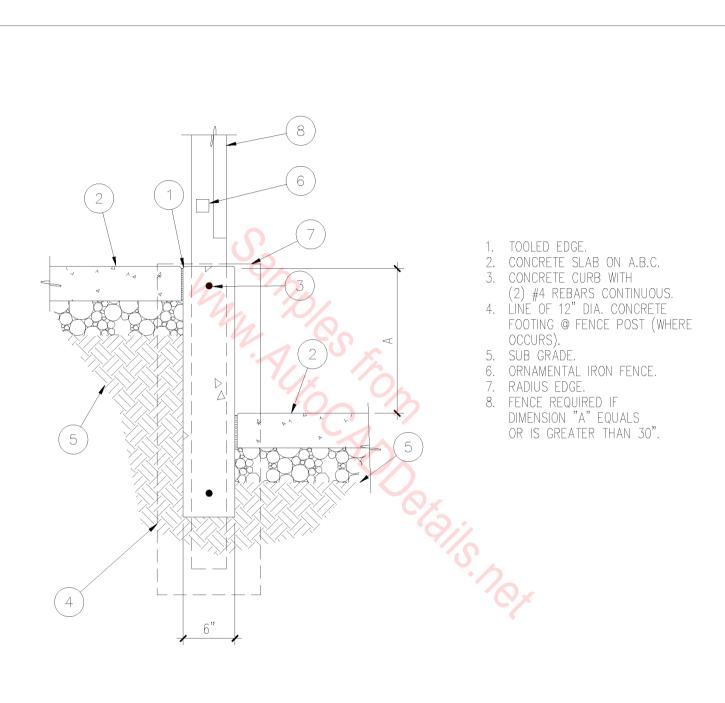
- 2" STABILIZED DECOMPOSED GRANITE.
   8" A.B.C. (2) 4" LEVELS COMPACTED TO 95%.
- 3. 2 X 6 REDWOOD HEADER.4. FINISH GRADE.

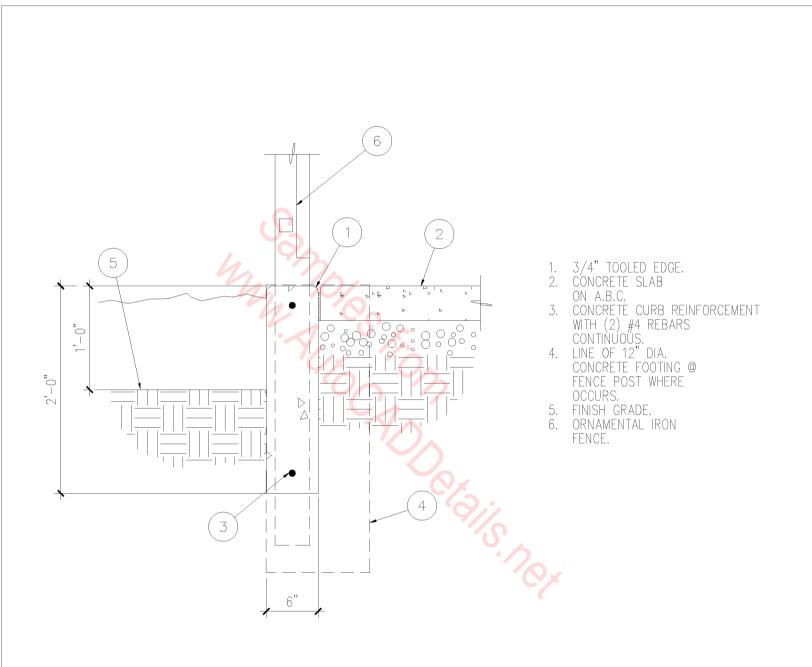


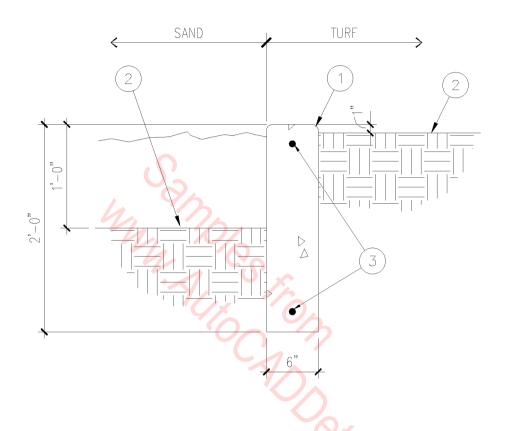


- TOOLED EDGE.
   CONCRETE SLAB
   ON A.B.C.
   CONCRETE CURB REINFORCEMENT
   WITH (2) #4 REBARS
   CONTINUOUS.
   RADIUS EDGE.
   FINISH GRADE.

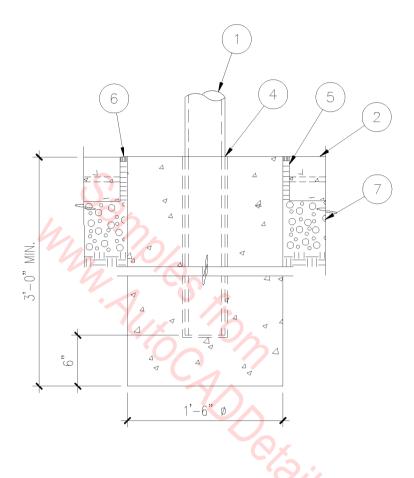
- 6. SAND.7. SUB GRADE.







- 3/4" TOOLED EDGE.
   FINISH GRADE.
   CONCRETE CURB REINFORCEMENT WITH (2) #4 REBARS CONTINUOUS.
- 4. SAND.
- 5. TURF.



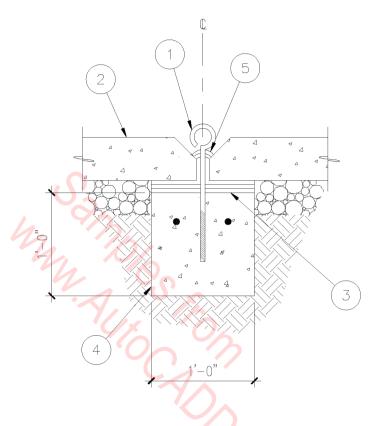
- 1. TENNIS NET POST & STEEL SLEEVE.
- 2. REINFORCED CONCRETE SLAB ON SUBGRADE.

- JON SUBGRAUE.

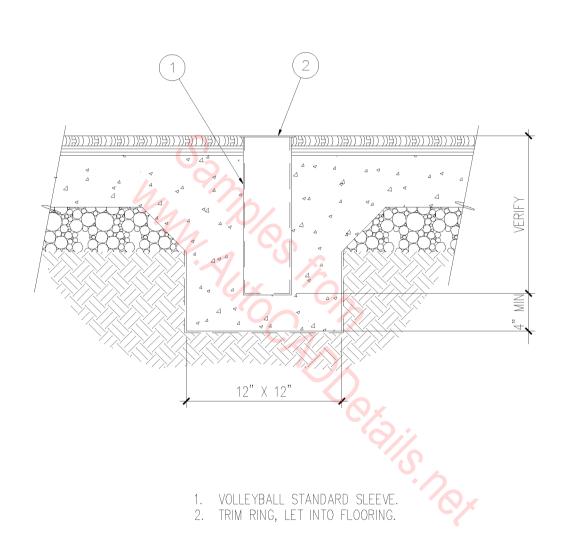
  3. CONCRETE FOOTING.

  4. TACK WELD POST IN SLEEVE.

  5. 1/2" WIDE CONTINUOUS EXPANSION JOINT.
- 6. CAULK LEVEL WITH TOP OF SLAB AT EXPANSION JOINT.
- 7. A.B.C.

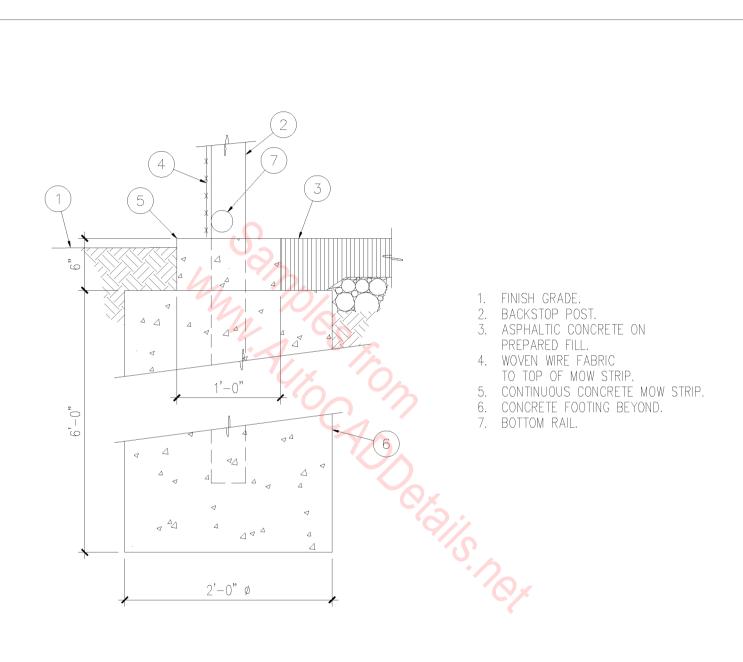


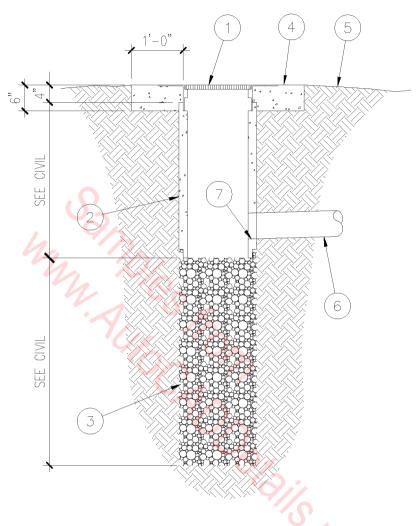
- TENNIS NET CENTER COURT HOLD - DOWN EYE HOOK (3/4" EYE). 2. REINFORCED CONCRETE SLAB ON
- A.B.C.
- 3. (3) LAYERS 30# FELT AS CONTINUOUS BOND BREAKER BETWEEN COURT SLABS
- & CONTINUOUS FOOTING.
  4. 12" X 12" X CONTINUOUS FOOTING CENTERLINE OF EACH TENNIS COURT.
- 5. CAULK AROUND EYE HOOK.



VOLLEYBALL ANCHOR

 $1 \ 1/2$ " = 1'-0"



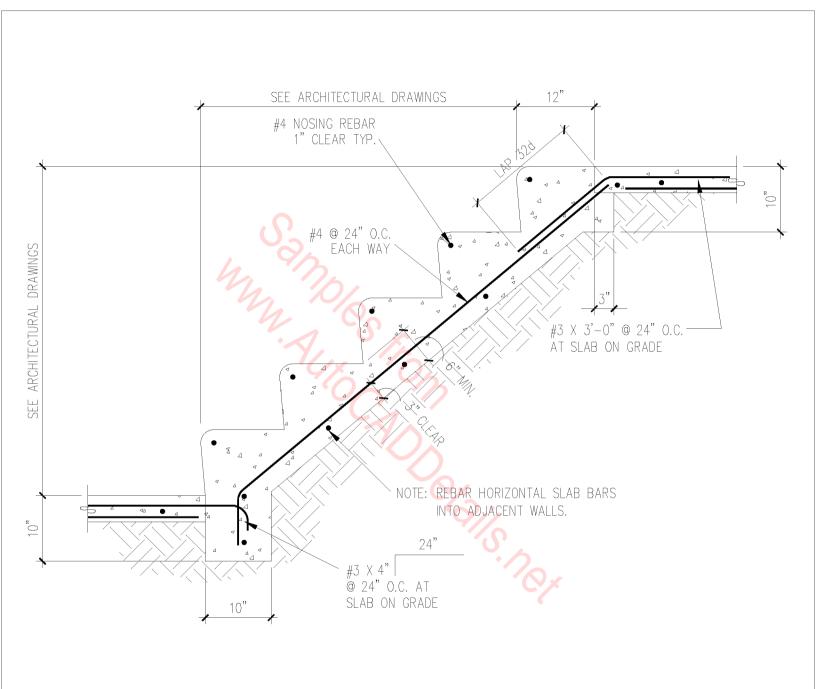


- 1. "NEENAH" #R-5901-D OPEN GRATE AND FRAME.
- 2. 18" DIAMETER CONCRETE PIPE.
- 3. 18" DIAMETER DRYWELL WITH

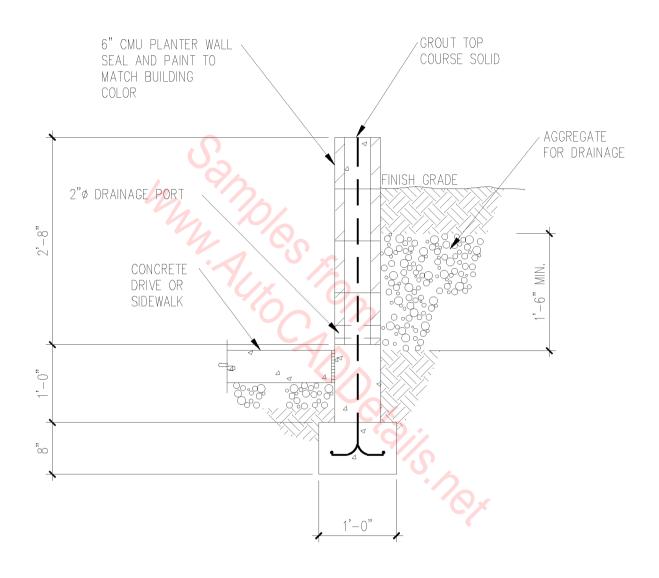
  1 1/2" TO 3" GRAVEL.

  4. 12" WIDE X 6" DEEP
- CONCRETE RING.

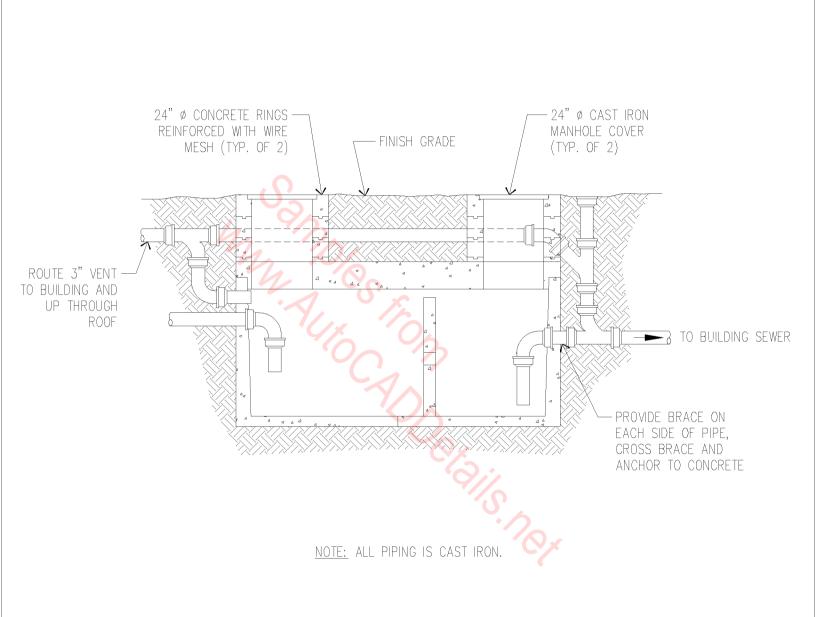
- 5. FINISH GRADE.
- 6. ROOF DRAIN SEE PLUMBING AND CIVIL. CONDENSATION DRAIN - SEE MECHANICAL. STORM DRAIN - SEE CIVIL, SITE PLAN.
- 7. GROUT IN PLACE.



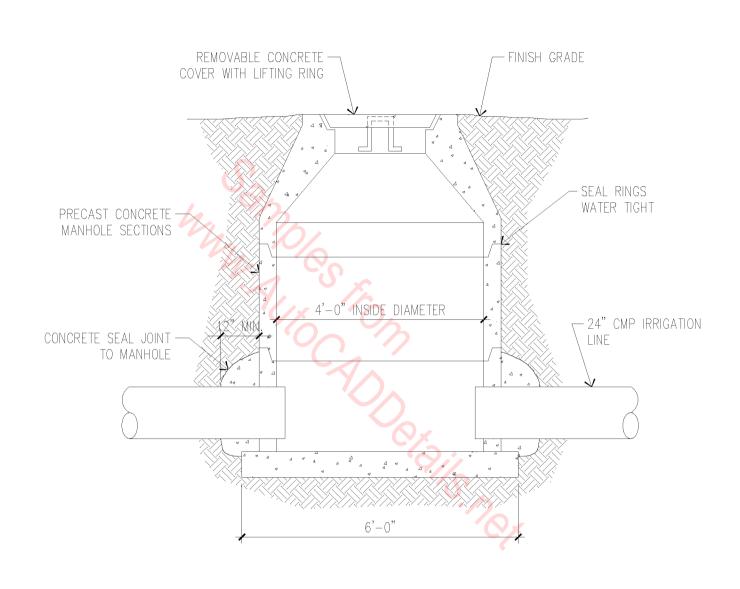
# OCONC. STAIRS ON GRADE N.T.S. OA — 1



 $O\frac{C.M.U.PLANTERSECTION}{3/4"=1'-0"}$ 



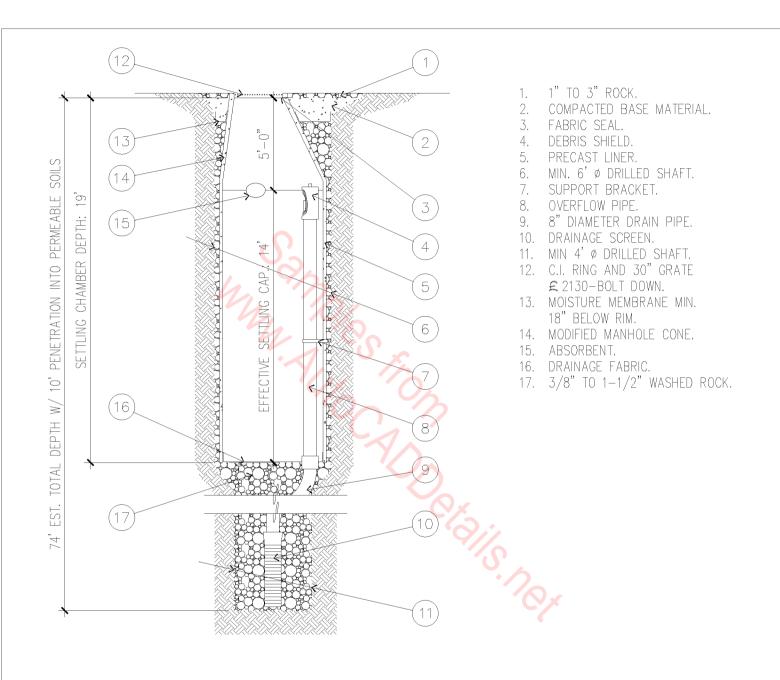
# EXTERIOR GREASE TRAP N.T.S. 02A-1033

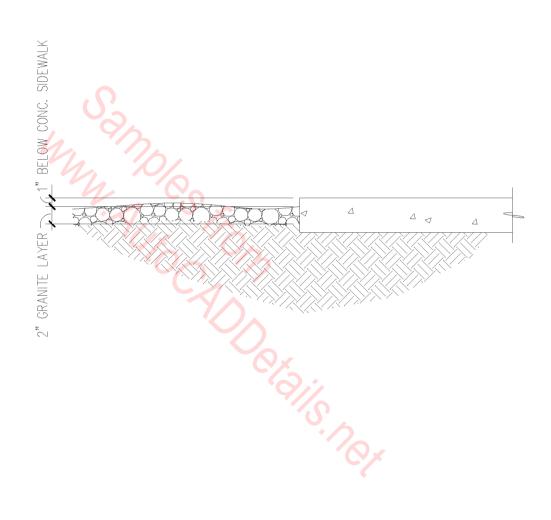


MANHOLE DETAIL

N.T.S.

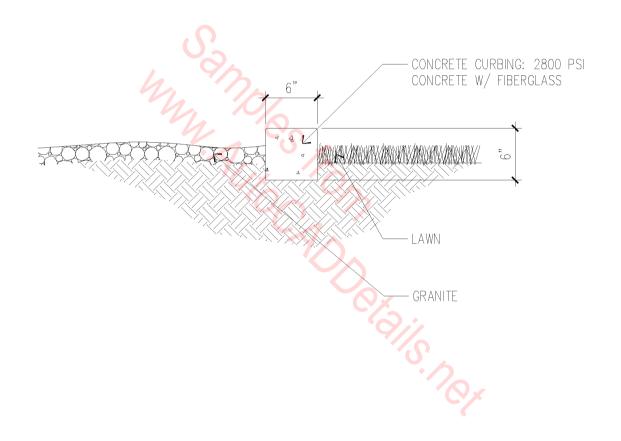
02A-1034





SIDEWALK DETAIL

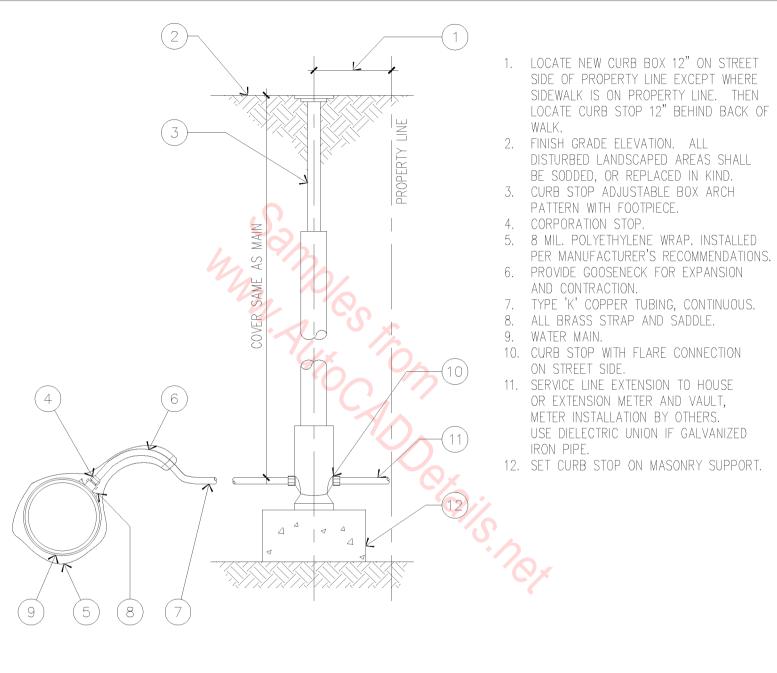
1" = 1'-0"



CURBING DETAIL

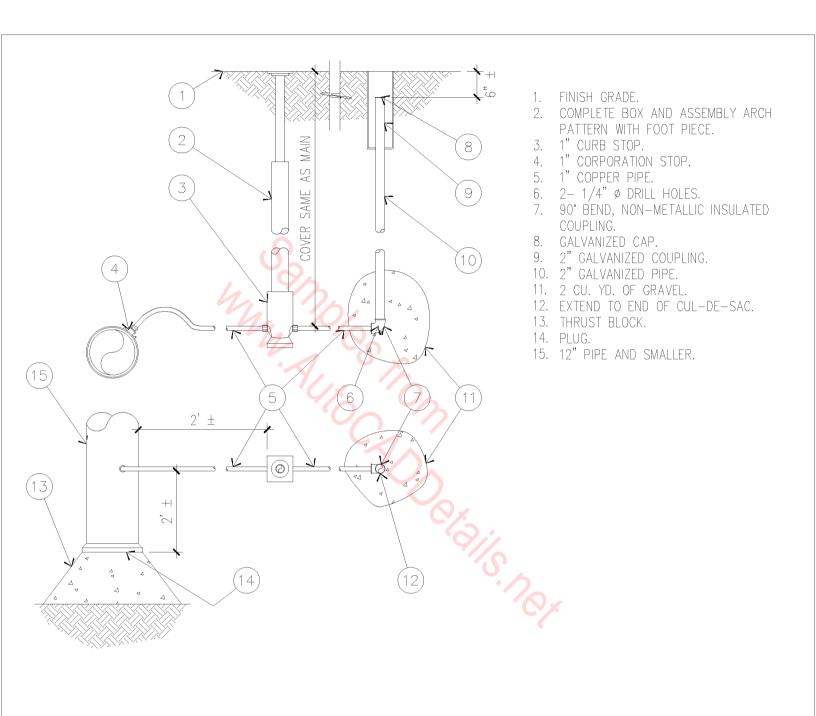
1" = 1'-0"

<u>02A</u>-1037



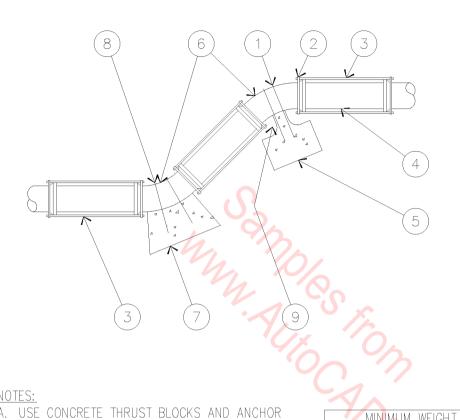
WATER SERVICE CONNECTION DETAIL

NOT TO SCALE



## MALOWOFF DETAIL

NOT TO SCALE



- 1. MINIMUM 2- #6 REBARS, ASPHALT COATED.
- STRAPS.
- 3. TIE RODS WHERE APPLIES, MINIMUM 2 REQUIRED.
- 4. ONE PIPE LENGTH (MINIMUM).
- 5. ANCHOR BLOCK (THRUST UPWARD, SEE TABLE FOR SIZE) EXTEND BLOCK INTO SIDES OF TRENCH.
- 6. 45° BEND.
- 7. THRUST BLOCK (SEE CHART FOR BEARING AREAS).
- 8. TIE DOWN RODS, MINIMUM 2- #6.
- 9. CLEARANCE AT HUB.

	MINIMUM WEIGHT OF ANCHOR BLOCK		
PIPE SIZE	BEND	ROD DIA.	MIN. LENGTH OF ROD*
4"	90°	3/4"	22'
	45°	3/4"	7'
	22.5°	3/4"	2'
6"	90°	3/4"	35'
	45°	3/4"	10'
	22.5°	3/4"	3'
8"	90°	1"	48'
	45°	3/4"	14'
	22.5°	3/4"	4'
12"	90°	1-1/4"	78'
	45°	3/4"	22'
	22.5°	3/4"	6'

\* ACTUAL LENGTH OF ROD TO BE SUCH THAT STRAP CAN BE PLACED BEYOND FIRST COLLAR OR HUB AT OR BEYOND THE MINIMUM LENGTH SHOWN.

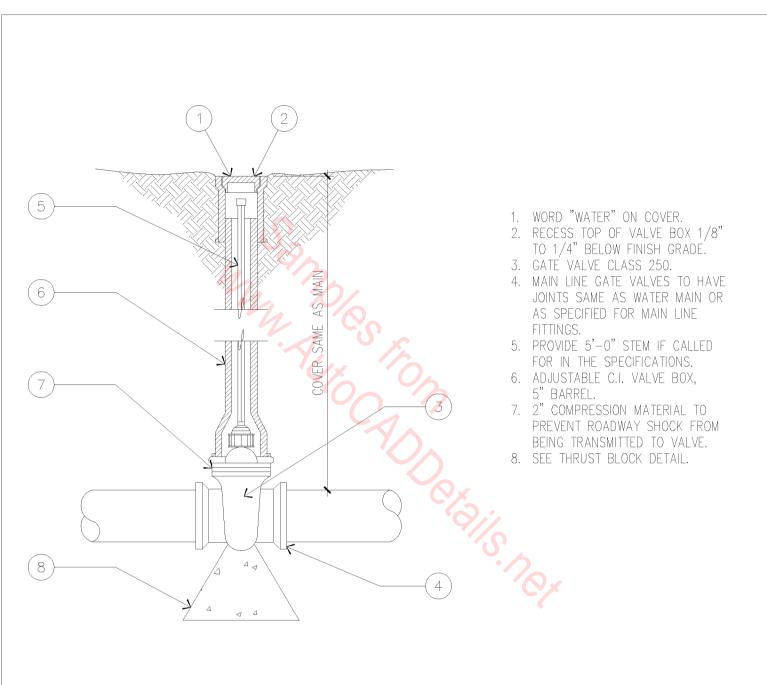
#### NOTES:

- A. USE CONCRETE THRUST BLOCKS AND ANCHOR BLOCK FOR PLASTIC PIPE (NO TIE RODS).
- B. FOR CAST IRON PIPE, USE EITHER TIE RODS OR CONCRETE BLOCKS.
- C. ANCHOR BLOCK WEIGHTS AND TIE ROD SIZE AND LENGTH BASED ON 200 P.S.I. PRESSURE AND 4'-6" OF COVER. WHERE WORKING PRESSURE EXCEEDS ABOVE, ANCHORS TO BE SPECIAL CONSTRUCTION.
- D. MEGA-LUG MAY BE USED PER MANUFACTURER'S REQUIREMENTS IN PLACE OF TIE RODS UPON APPROVAL OF ENGINEER.

MINIMUM WEIGHT OF ANCHOR BLOCK				
PIPE SIZE	90° BEND	45° BEND	22.5° BEND	
2"	150#	150#	150#	
3"	900#	450#	150#	
4"	1590#	900#	450#	
6"	6040#	2360#	680#	
8"	12,280#	5740#	1960#	

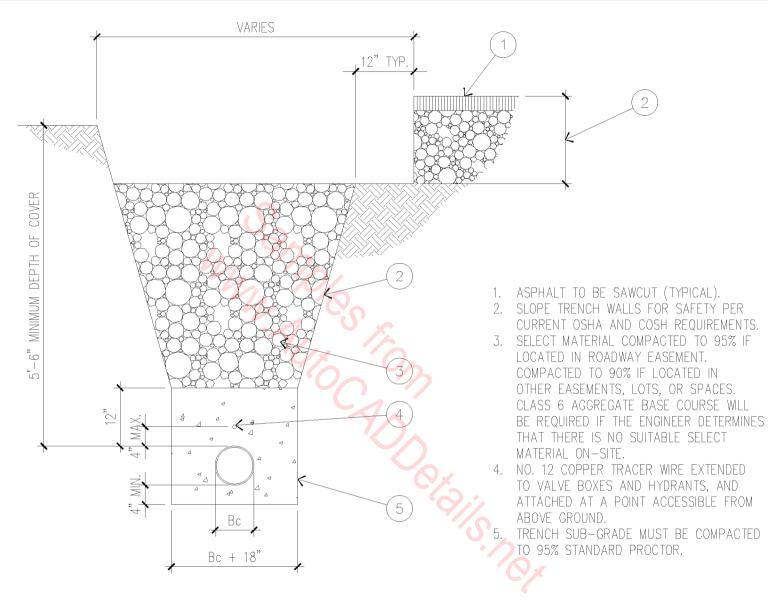
ICAL

NOT TO SCALE



## GATE VALVE DETAIL

NOT TO SCALE

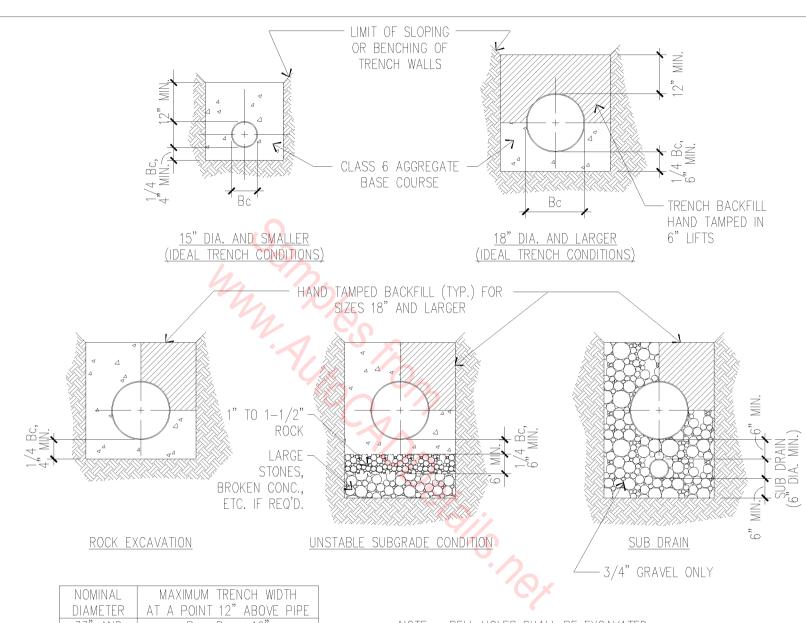


NOTES:

- A. PAVEMENT REPLACEMENT SHALL MEET EXISTING THICKNESSES AND KIND WITH THE FOLLOWING MINIMUMS: ASPHALT SURFACING = 3" MIN., AGGREGATE BASE COURSE = 15" MINIMUM.
- B. IF WATER MAIN IS NOT UNDER ROAD SURFACE, REPLACE TOP ONE FOOT OF TRENCH WITH TOPSOIL AND REVEGETATE.

### TRENCH CROSS SECTION

NOT TO SCALE

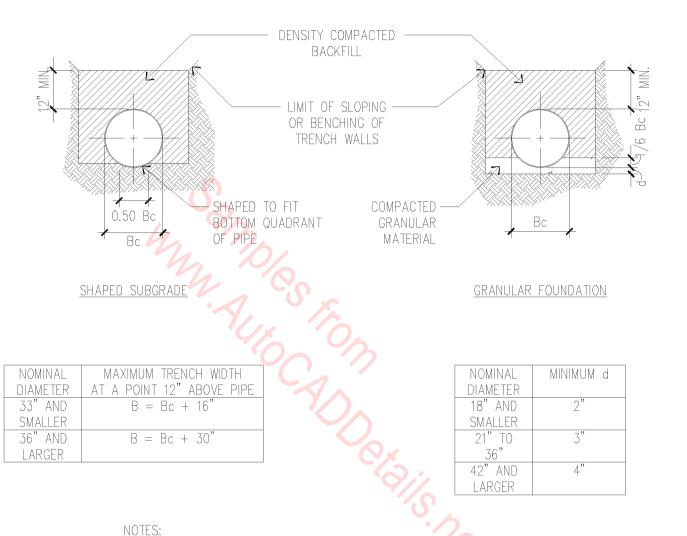


NOMINAL	MAXIMUM TRENCH WIDTH
DIAMETER	AT A POINT 12" ABOVE PIPE
33" AND	B = Bc + 16"
SMALLER	
36" AND	B = Bc + 30"
LARGER	

NOTE: BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.

CLASS 'B' BEDDING ROMTS. WATER OR SEWER MAIN

NOT TO SCALE



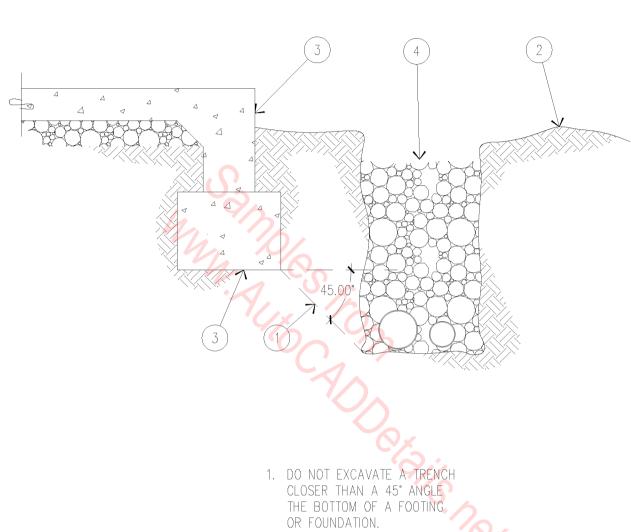
NOMINAL	MAXIMUM TRENCH WIDTH
DIAMETER	AT A POINT 12" ABOVE PIPE
33" AND	B = Bc + 16"
SMALLER	
36" AND	B = Bc + 30"
LARGER	

NOMINAL	MINIMUM d
DIAMETER	
18" AND	2"
SMALLER	
21" TO	3"
36"	
42" AND	4"
LARGER	

#### NOTES:

- BELL HOLES SHALL BE EXCAVATED AT ALL BELL AND SPIGOT JOINTS.
- CLASS 'C' BEDDING MAY ONLY BE USED UPON APPROVAL OF CHIEF ENGINEER OR THE ENGINEER'S APPOINTED REPRESENTATIVE.

NOT TO SCALE

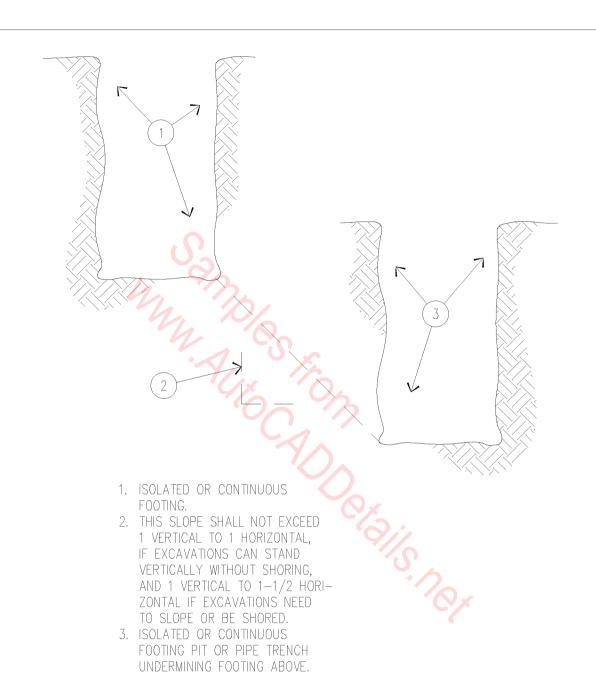


- 2. FINISHED GRADE.
- 3. FOOTING OR FOUNDATION.
- 4. EXCAVATED TRENCH.

## TRENCH PARALLEL TO FOUNDATION

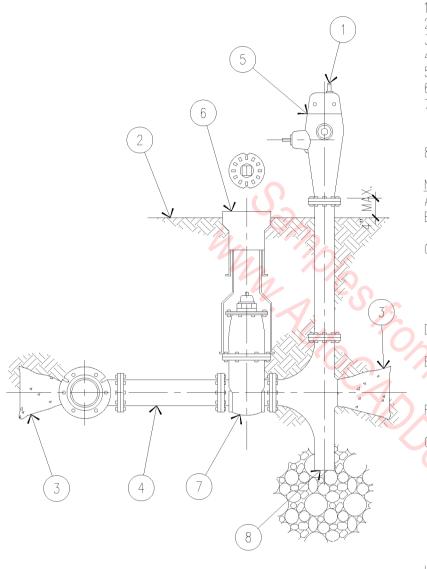
NOT TO SCALE

 $\overline{02A} - 1045$ 



## MAXIMUM SLOPES BETWEEN ADJACENT EXCAVATIONS

NOT TO SCALE



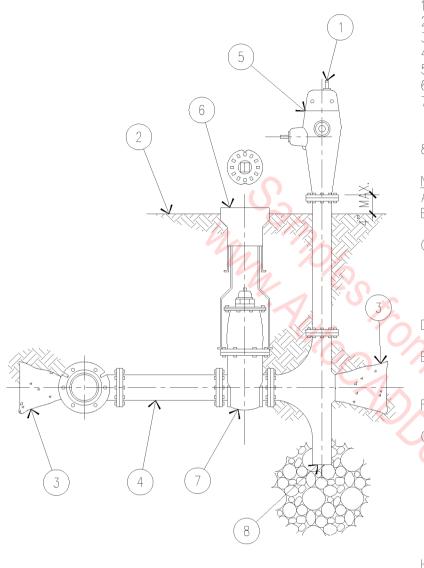
- 1. 1 1/2" PENTAGON OPERATING NUT (OPENS LEFT).
- 2. FINISH GRADE.
- THRUST BLOCK.
- 4. STEEL SPOOL.
- 5. FIRE HYDRANT.
- 6. (2) PIECE CAST IRON VALVE BOX.
- 7. GATE VALVE WITH 2" X 2" OPERATING NUT (DOUBLE DISK RESILIENT WEDGE GATE VALVE TO MEET A.W.W.A. SPECIFICATIONS).
- 8. DRAIN HOLF.

#### NOTES:

- A. ALL WORK MUST BE INSPECTED PRIOR TO BACKFILL.
- B. THRUST BLOCKS ARE REQUIRED WITH A MINIMUM OF FOUR (4) SQUARE FEET BEARING ON UNDISTURBED SOIL.
- C. DRAIN HOLES AT BASE OF HYDRANT TO REMAIN CLEAR WITH A MINIMUM OF ONE (1) CUBIC YARD OF CLEAN 2" MINUS GRAVEL PLACED AROUND THE HOLE TO FACILITATE DRAINAGE. TAR PAPER OR PLASTIC REQUIRED OVER GRAVEL TO MINIMIZE SILTING.
- D. THE 4 1/2" STEAMER NOZZLE TO FACE THE STREET OR PARKING LOT.
  - FIRE HYDRANTS SHALL BE INSTALLED IN SUCH A MANNER THAT THE SIDEWALK FLANGE IS EVEN WITH OR LESS THAN 4" ABOVE GRADE.
  - THE AUTHORITIES HAVING JURISDICTION SHALL BE NOT-IFIED AS SOON AS A HYDRANT IS PLACED IN SERVICE. THE BURIED PORTION OF THE HYDRANT SHALL BE PAINTED WITH TWO (2) COATS OF C.A. 50 COAL TAR ENAMEL. THE HYDRANT BARREL AND CAPS SHALL BE PAINTED YELLOW WITH BAKELITE BASE PAINT AND TONGUE OIL THINNER. THE PAINT SHALL BE TROPICAL INDUSTRIAL ENAMEL WITH ONE (1) COAT OF A.C.B. PRIMER NO. 535-14 AND ONE (1) COAT OF LEMON YELLOW F-68Y2 SHERWIN-WILLIAMS OR EQUAL.
- H. ALL BOLTS BELOW GROUND SHALL BE COATED WITH POLY FM GREASE I AND WRAPPED WITH 8 MIL. POLYETHYLENE.
- I. ALL CONNECTIONS FROM MAIN SHALL BE FLANGED AND DRILLED TO AMERICAN STANDARD A.N.S.I. B16.1.
- J. HYDRANT SPOOL TO BE STEEL PIPE, SCHEDULE 40, AND TAPE WRAPPED.

FIRE HYDRANTS

N.T.S.



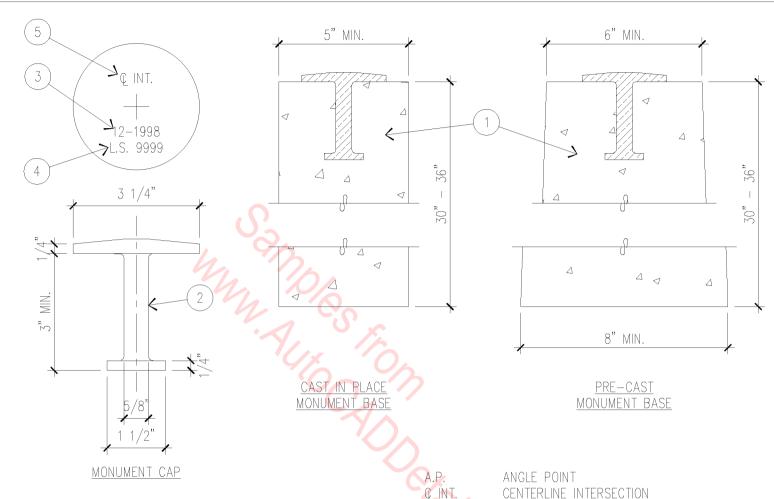
- 1. 1 1/2" PENTAGON OPERATING NUT (OPENS LEFT).
- 2. FINÍSH GRADE.
- 3. THRUST BLOCK.
- 4. STEEL SPOOL.
- 5. FIRE HYDRANT.
- 6. (2) PIECE CAST IRON VALVE BOX.
- 7. ĞÁTE VALVE WITH 2" X 2" OPERATING NUT (DOUBLE DISK RESILIENT WEDGE GATE VALVE TO MEET A.W.W.A. SPECIFICATIONS).
- 8. DRAIN HOLE.

#### NOTES:

- A. ALL WORK MUST BE INSPECTED PRIOR TO BACKFILL.
- B. THRUST BLOCKS ARE REQUIRED WITH A MINIMUM OF FOUR (4) SQUARE FEET BEARING ON UNDISTURBED SOIL.
- C. DRAIN HOLES AT BASE OF HYDRANT TO REMAIN CLEAR WITH A MINIMUM OF ONE (1) CUBIC YARD OF CLEAN 2" MINUS GRAVEL PLACED AROUND THE HOLE TO FACILITATE DRAINAGE. TAR PAPER OR PLASTIC REQUIRED OVER GRAVEL TO MINIMIZE SILTING.
- D. THE 4 1/2" STEAMER NOZZLE TO FACE THE STREET OR PARKING LOT.
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- I. ALL CONNECTIONS FROM MAIN SHALL BE FLANGED AND DRILLED TO AMERICAN STANDARD A.N.S.I. B16.1.
- J. HYDRANT SPOOL TO BE STEEL PIPE, SCHEDULE 40, AND TAPE WRAPPED.

FIRE HYDRANTS

N.T.S.



- CONCRETE AS PER SPECIFICATIONS. 1.
- USE MONUMENT CAP (PLATE) OF BRASS 2. OR BRONZE.
- 3. SHOW MONTH AND YEAR WHEN CAP IS INSTALLED.
- 4. SHOW LICENSE NUMBER OF LAND SURVEYOR WHO SET THE CAP.
- SHOW THE TYPE OF MONUMENT ON THE CAP. THE FOLLOWING IS A LIST OF COMMONLY **USED ABBREVIATIONS:**

CENTERLINE INTERSECTION

INTERSECTION LINE

ML. INT. MONUMENT LINE INTERSECTION

P.C. POINT OF CURVATURE

P.C.C. POINT OF COMPOUND CURVE

P.I. POINT OF INTERSECTION

POINT OF CURVE P.O.C.

INT.

P.O.T. POINT OF TANGENT

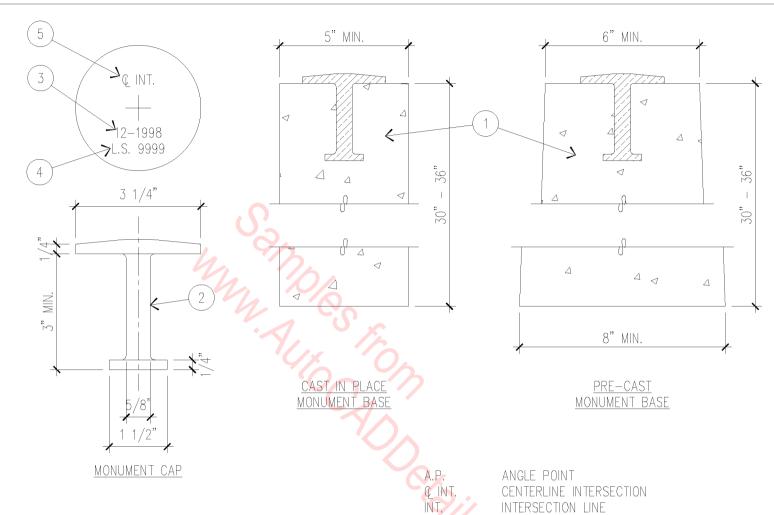
POINT OF REVERSE CURVE P.R.C.

P.T. POINT OF TANGENCY

S.C. SECTION CORNER

WITNESS CORNER W.C.

N.T.S.



- CONCRETE AS PER SPECIFICATIONS. 1.
- USE MONUMENT CAP (PLATE) OF BRASS OR BRONZE.
- SHOW MONTH AND YEAR WHEN CAP IS 3. INSTALLED.
- SHOW LICENSE NUMBER OF LAND SURVEYOR WHO SET THE CAP.
- SHOW THE TYPE OF MONUMENT ON THE CAP. THE FOLLOWING IS A LIST OF COMMONLY USED ABBREVIATIONS:

INTERSECTION LINE

MONUMENT LINE INTERSECTION

POINT OF CURVATURE

POINT OF COMPOUND CURVE

POINT OF INTERSECTION

P.O.C. POINT OF CURVE

ML. INT.

P.C.

P.I.

P.C.C.

P.O.T. POINT OF TANGENT

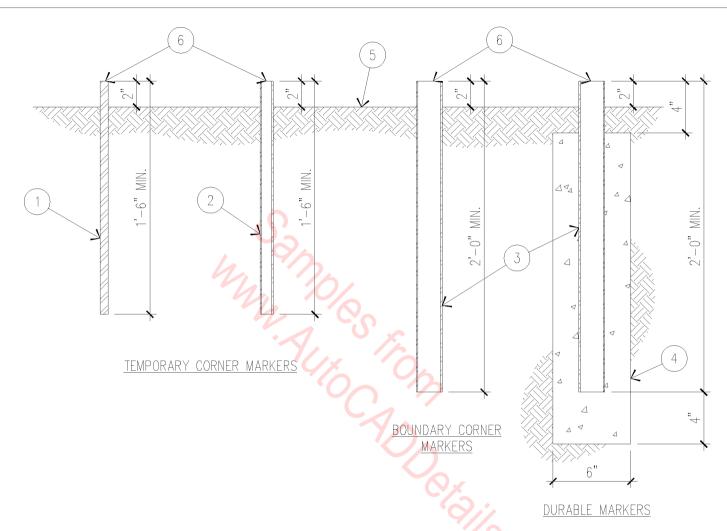
P.R.C. POINT OF REVERSE CURVE

P.T. POINT OF TANGENCY

S.C. SECTION CORNER

W.C. WITNESS CORNER





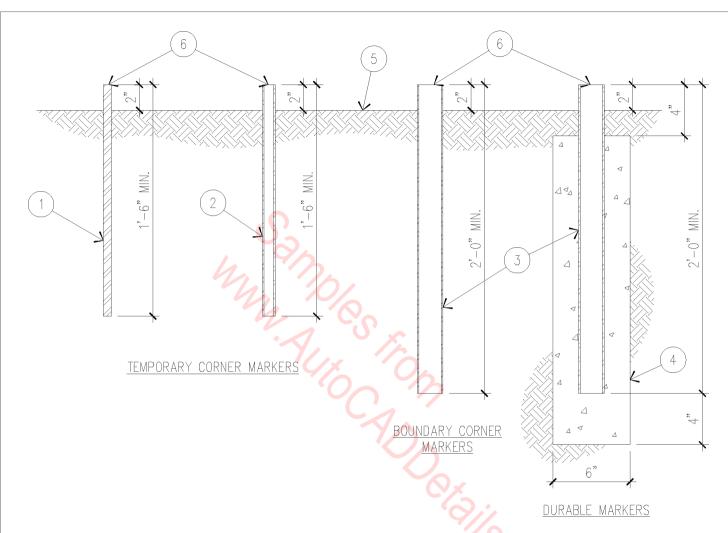
- 1. NO. 5 REBAR.
- 2. 1" PIPE.
- 3. 2" PIPE.
- 4. CONCRETE.
- 5. GROUND SURFACE.
- 6. ALL CORNERS TO BE TAGGED WITH SURVEYOR NUMBER.

### NOTES:

- A. ALL BOUNDARIES, UNLESS OTHERWISE MARKED WITH A DURABLE MARKER, SHALL BE MARKED WITH BOUNDARY CORNER MARKERS.
- B. MONUMENTS SHALL BE MARKED WITH DURABLE MARKERS.
- C. ALUMINUM OR PLASTIC "PERMAMARK" CAPS OR APPROVED EQUAL.

### CORNER & BOUNDARY MARKER DETAILS

 $1 \ 1/2$ " = 1'-0"



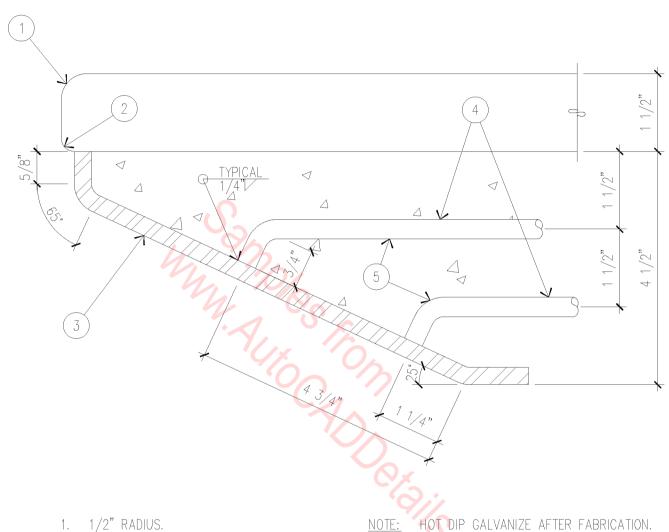
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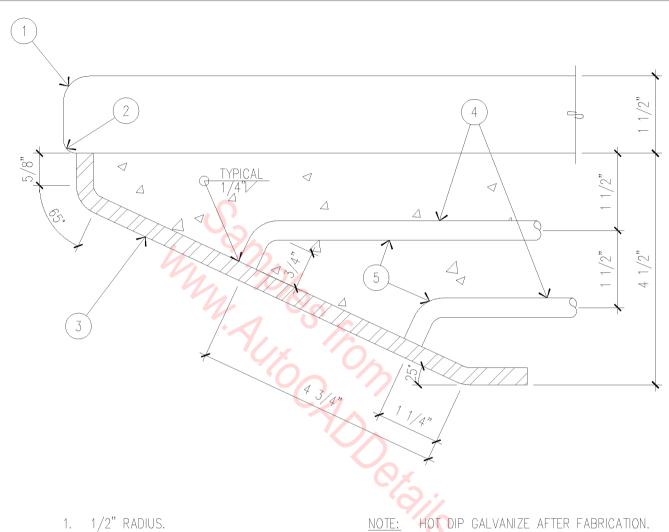
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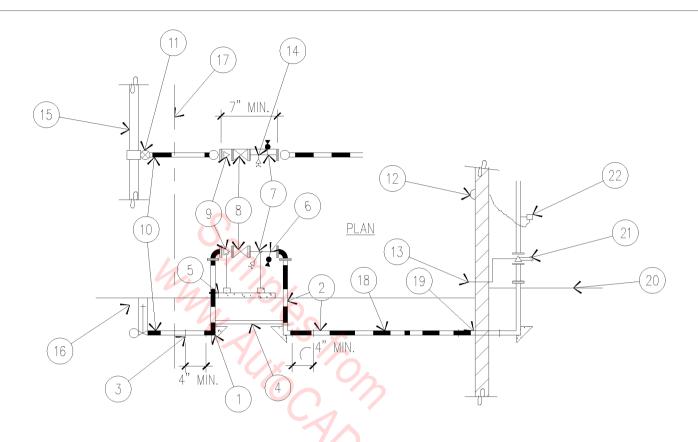
1. 1/2" RADIUS.
2. 1/4" RADIUS
3. 5/15" X 10" PLATE (ASTM A36),
BENT AS SHOWN.
4. #3 X 9" AT 24" O.C.
5. STAGGER ANCHORS.

= 1'-0''



1. 1/2" RADIUS.
2. 1/4" RADIUS
3. 5/15" X 10" PLATE (ASTM A36),
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4. #3 X 9" AT 24" O.C.
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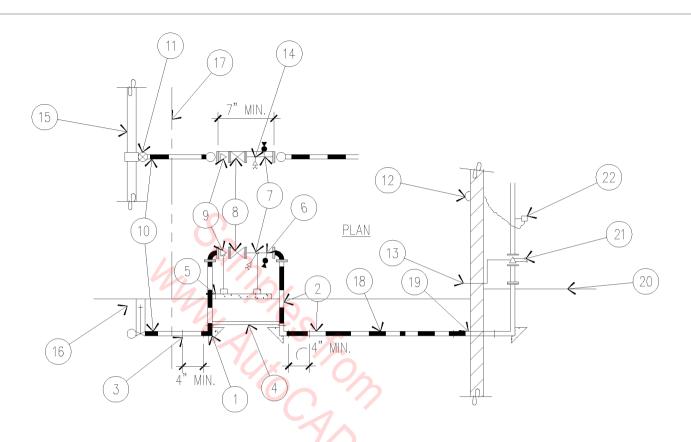
= 1'-0"



- 90° ELBOW (FLANGED DIP 3" THROUGH 10" OR TYPE "K" COPPER THROUGH 2 1/2").
- PIPE SPOOL (FLANGED DIP 3" THROUGH 10" OR TYPE "K" THROUGH 2 1/2").
- 3. FLANGED ADAPTER (WHEN REQUIRED). 4. 3" X 3" X 1/4" STEEL ANGLE (FOR 4" OR LARGER ASSEMBLY ONLY) BOLT TO FLANGE EACH END WITH ONE BOLT, COAT WITH COAL TAR EPOXY (16 MLS).
- CONCRETE SUPPORT AND PAD (4" AND LARGER).
- 1/2 BALL VALVE AND PLUG.
- SPOOL PIECE WITH FDC.
- 8. OS&Y OR BUTTERFLY.
- SWING CHECK.
- 10. "K" COPPER (2" 2 1/2"), DIP (3" 10").

- 3" 10" STAINLESS STEEL TAPPING SLEEVE AND VALVE.
- 12. ELECTRIC BELL.
- 13. 2" MAIN DRAIN. 14. 2 1/2 X 2 1/2 X 4 FDC AND CHECK VALVE (SINGLE 2 1/2 ON 2 1/2" OR SMALLER SYSTEM).
- 15. TOWN WATER MAIN.
- 16. ROAD BOX.
- 17. PROPERTY LINE.
- 18. "L" COPPER (2" 2 1/2") PVC OR DIP (3" 10").
- 19. DIP.
- 20. FINISHED FLOOR.
- 21. READY RISER, CHECK VALVE, PRESSURE GAUGES.
- 22. FLOW SWITCH.

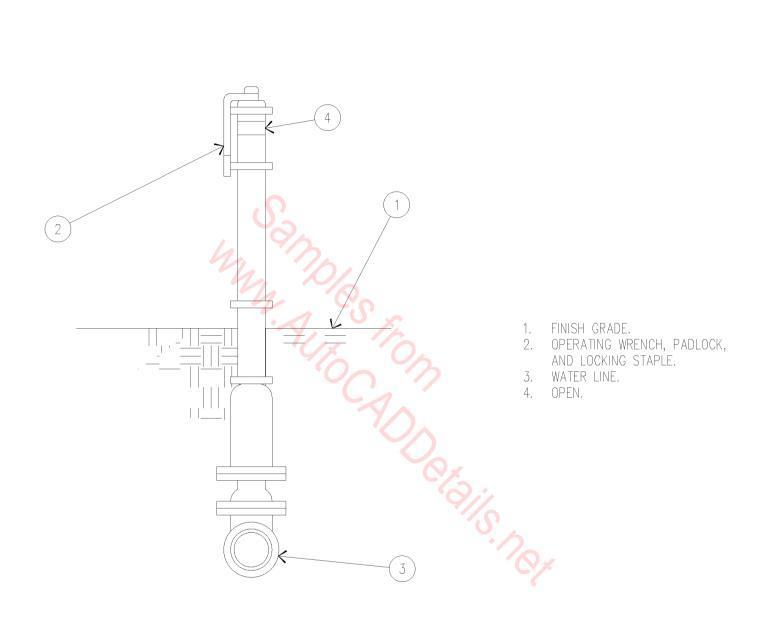




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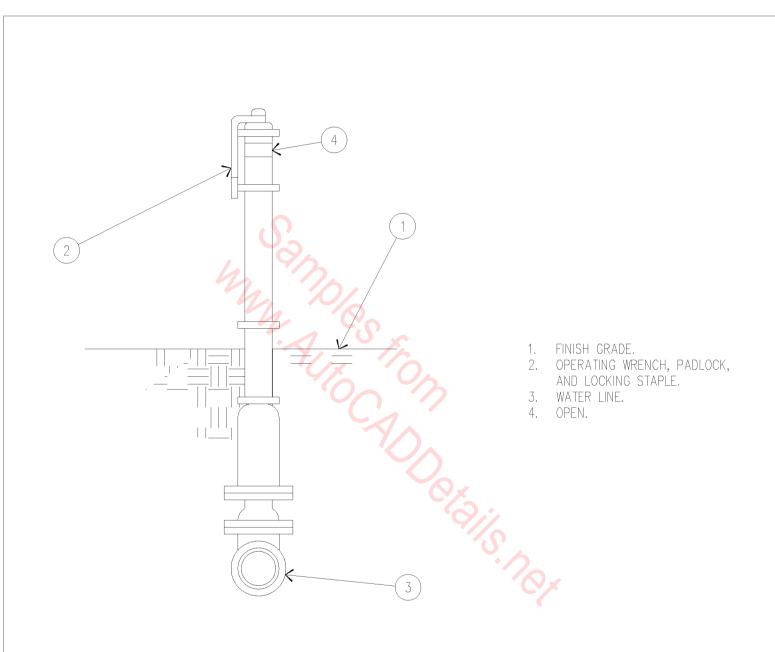




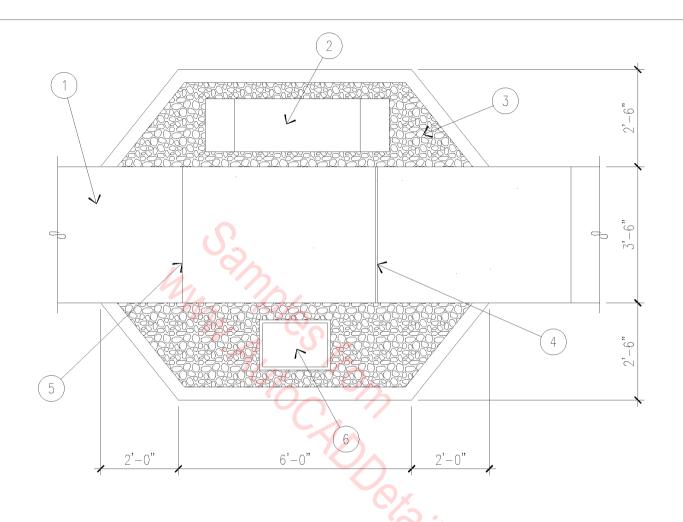
### GATE VALVE WITH INDICATOR POST

N.T.S.

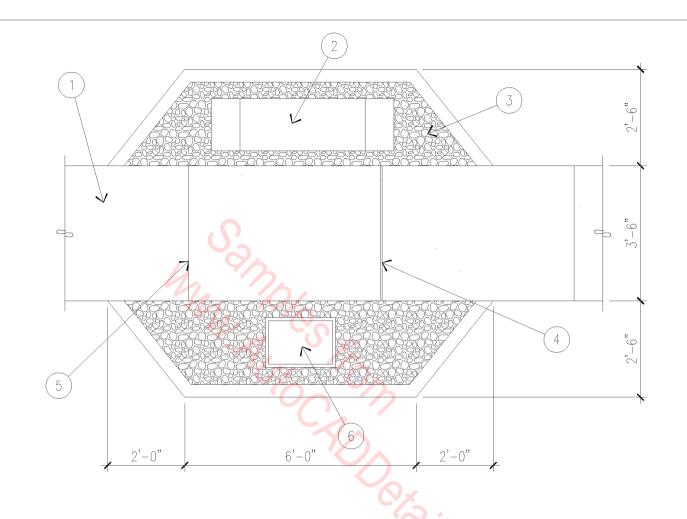
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### GATE VALVE WITH INDICATOR POST



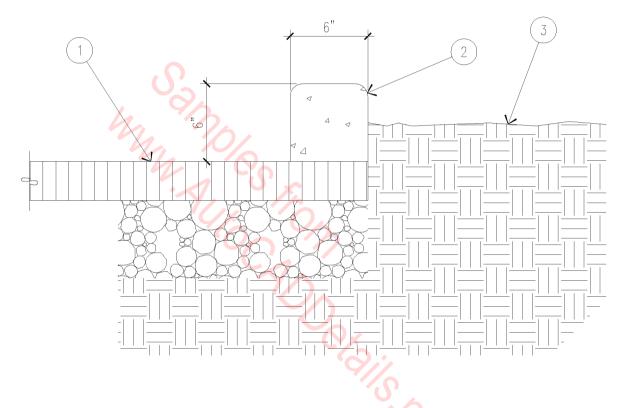
- 1. 4" CONCRETE WALK WITH MEDIUM ROCK SALT FINISH.
- 2. PRECAST CONCRETE BENCH.
- 3. DECOMPOSED GRANITE SEE LANDSCAPE PLAN.
- 4. EXPANSION JOINT AT 25'-0" O.C.
- 5. CONTROL JOINT SET AT 5'-0" O.C.
- 6. CHARCOAL BAR-B-QUE.



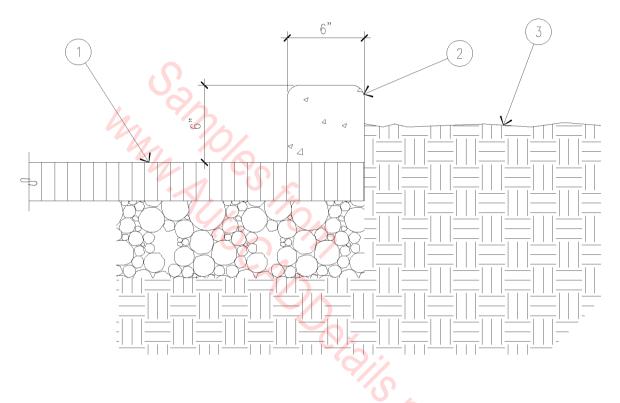
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BAR-B-OUF ARFA

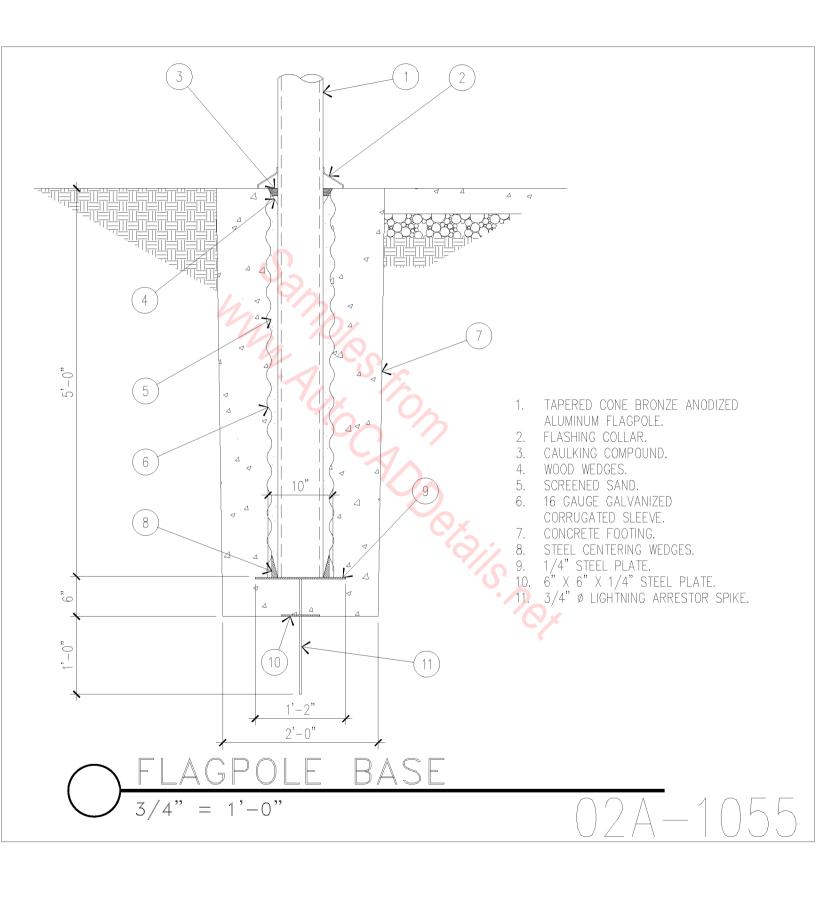
3/8" = 1'-0"

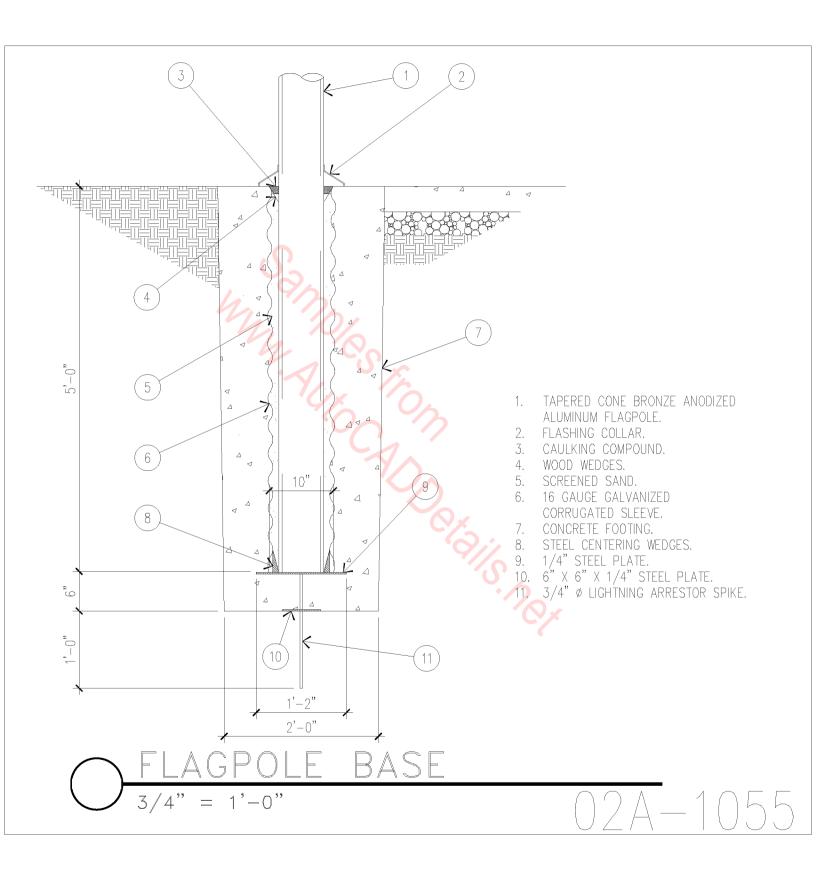


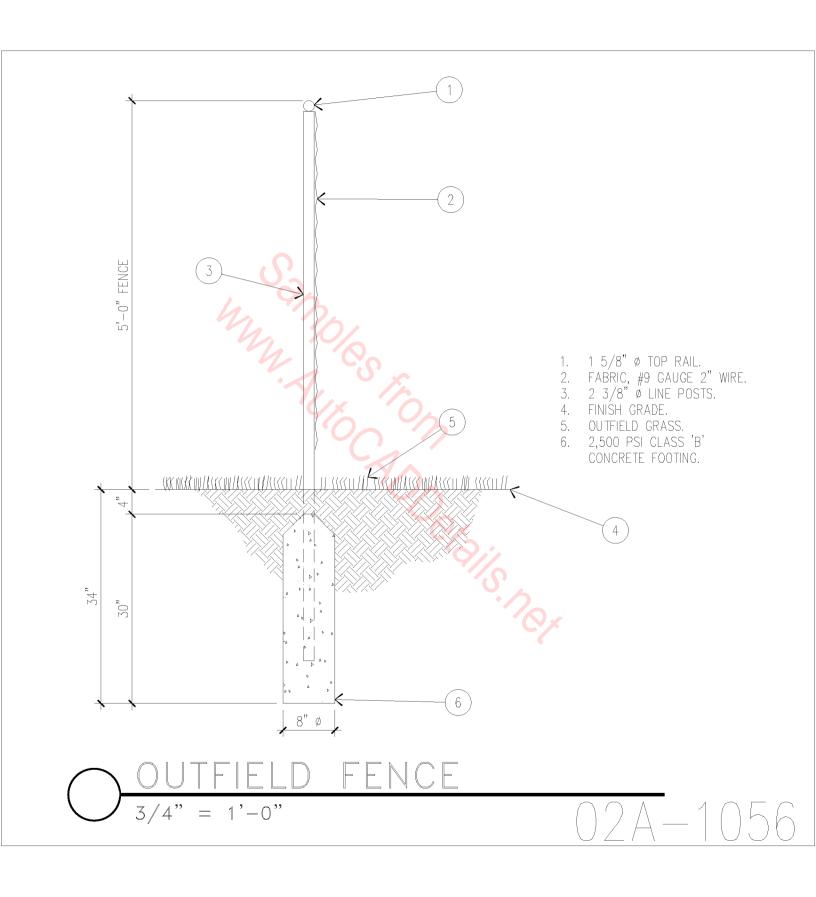
- ASPHALT PAVEMENT ON BASE COURSE.
   6" EXTRUDED CURB ON ASPHALT.
   FINISHED GRADE.

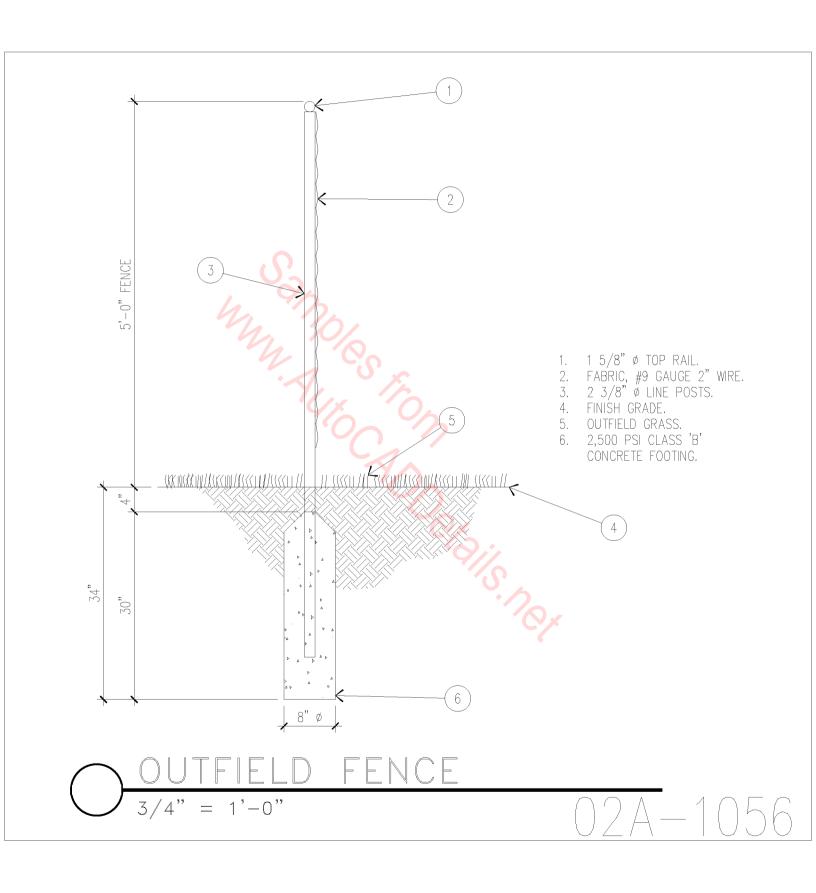


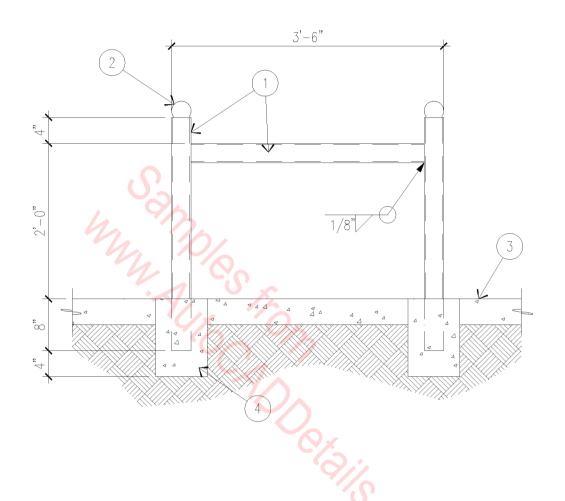
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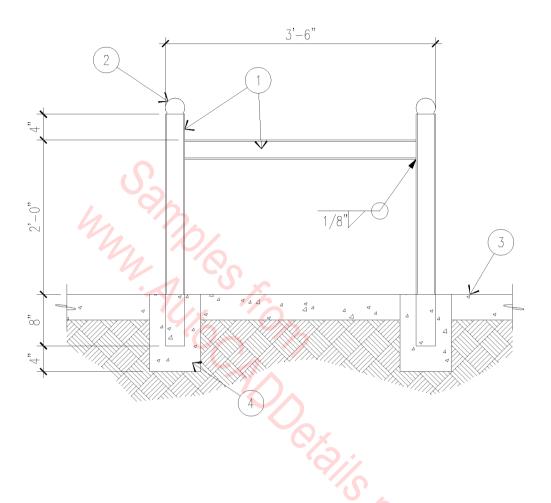






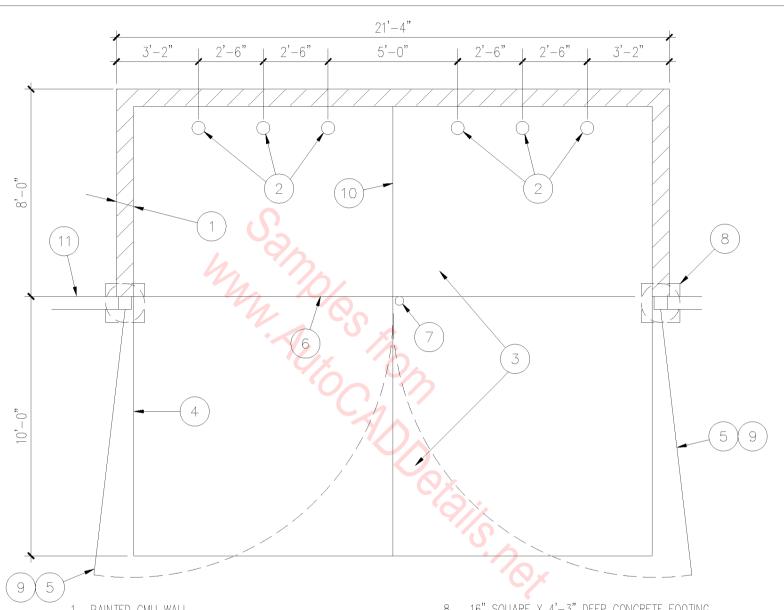
- 1. 3" X 3" X 3/16" TUBE STEEL.
  2. 3" Ø BALL CAP.
  3. 4" CONCRETE SIDEWALK.
  4. 8" Ø X 12" FOOTING.

3/4" = 1'-0"



- 1. 3" X 3" X 3/16" TUBE STEEL.
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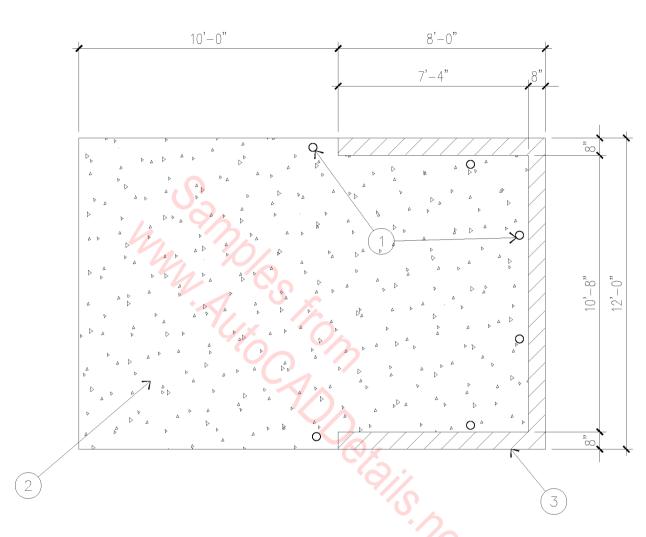
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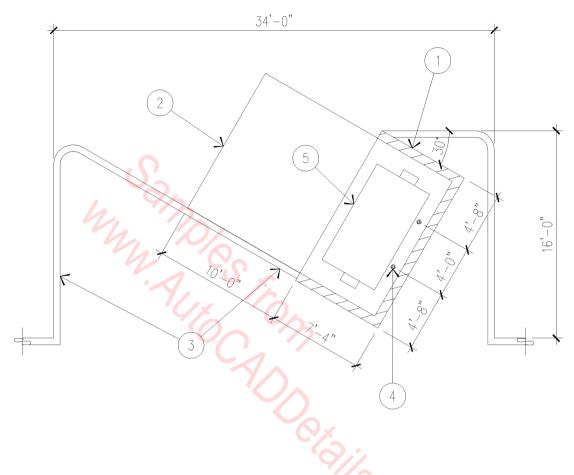
- 1. PAINTED CMU WALL.
- 2. 6" DIA. STEEL PIPE BOLLARD.
- 3. 5" CONCRETE SLAB W/ #3 REBARS @ 18" O.C. EACH WAY. 4. TURN DOWN AT PAVING.
- 5. ORNAMENTAL IRON GATE.
- 6. CONCRETE CONTROL JOINT.
- 7. 2" DIA. PIPE SLEEVE TO LOCK GATE IN CLOSED POSITION.
- 16" SQUARE X 4'-3" DEEP CONCRETE FOOTING.
- GATES TO SWING A MIN. 180 DEG. 9.
- 10. CONCRETE EXPANSION JOINT.
- 11. CONCRETE CURB.

NOTE: PROVIDE A 2" DIA. PIPE SLEEVE TO LOCK GATE IN 180 DEG. OPEN POSITION.

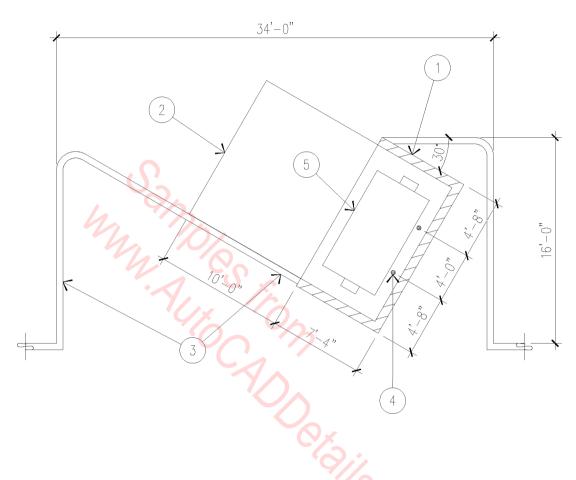
SCALE: 1/4" = 1'-0"



- 4" Ø X 3'-0" (ABOVE GRADE) PIPE BOLLARD SET IN 18" Ø X 24" CONCRETE FOOTING WITH AN 18" EMBED.
   6" THICK CONCRETE APRON (300 PSI).
   8" MASONRY FENCE TO 6'-0" ABOVE FINISHED GRADE.



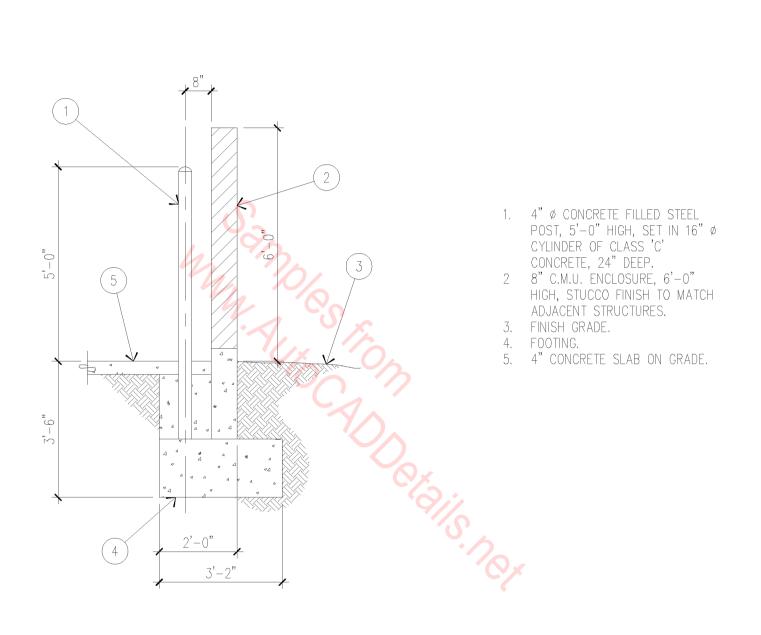
- 6'-0" HIGH C.M.U. WALL WITH STUCCO FINISH.
   6" THICK CLASS 'A' CONCRETE PAD.
   6" EXTRUDED CONCRETE CURB.
   4" Ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 8" CYLINDER OF CLASS 'C' CONCRETE, 2'-0" DEEP.
- 5. 6 CUBIC YARD DUMPSTER.



- 6'-0" HIGH C.M.U. WALL WITH

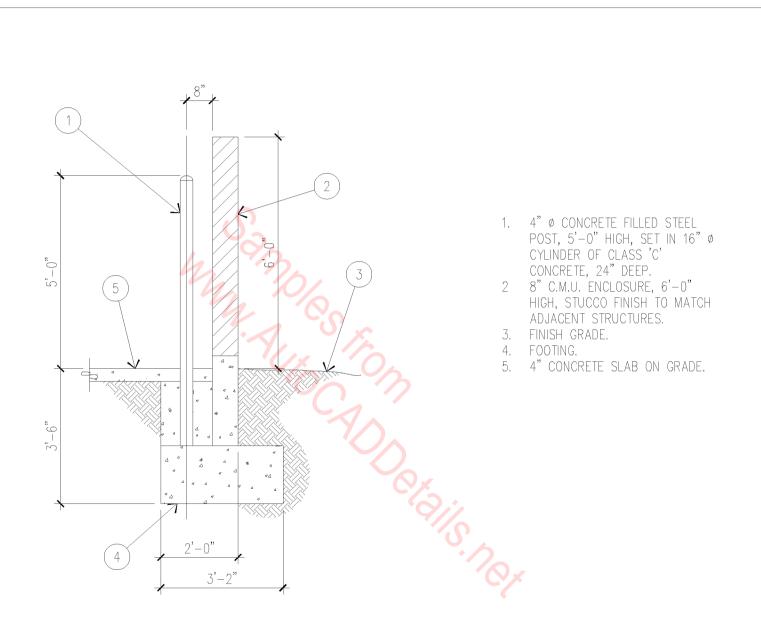
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   4" Ø CONCRETE FILLED STEEL POST, 5'-0" HIGH, SET IN 8" CYLINDER OF CLASS 'C' CONCRETE, 2" 0" DEED. 2'-0" DEEP.
- 5. 6 CUBIC YARD DUMPSTER.

= 1' - 0''



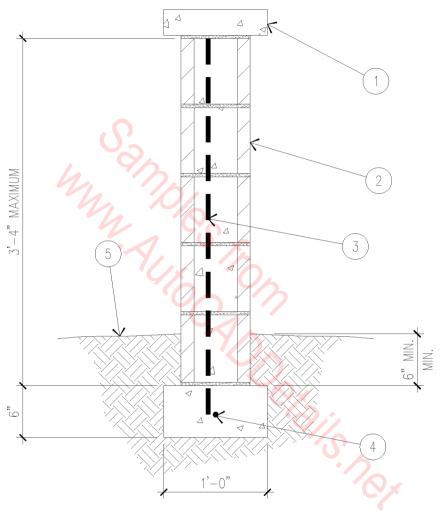
## TRASH ENCLOSURE WITH BOLLARD

3/8" = 1'-0"

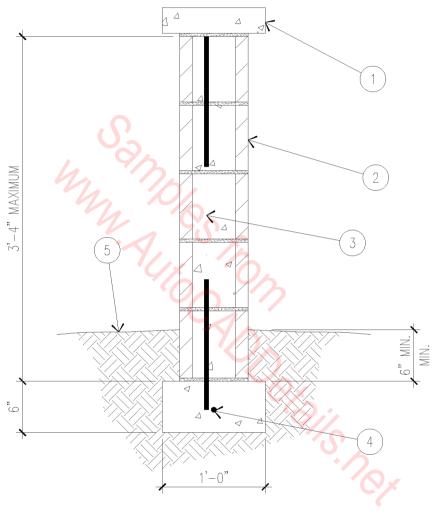


## TRASH ENCLOSURE WITH BOLLARD

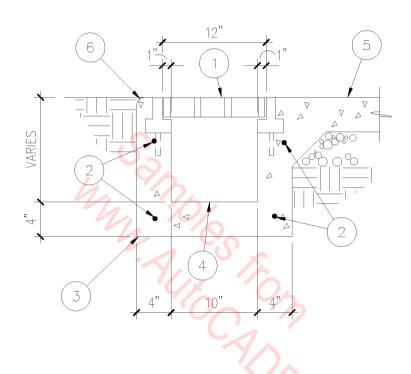
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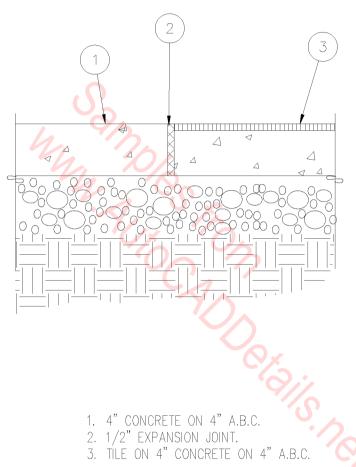
- SOLID CAP BLOCK. 8" C.M.U. #4 VERTICALS 4" FROM OPENINGS AND CORNERS AT 49" O.C. WITH 6" HOOK.
- #4 CONTINUOUS. FINISH GRADE.

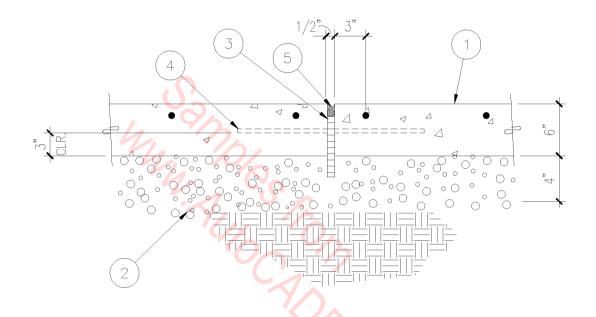


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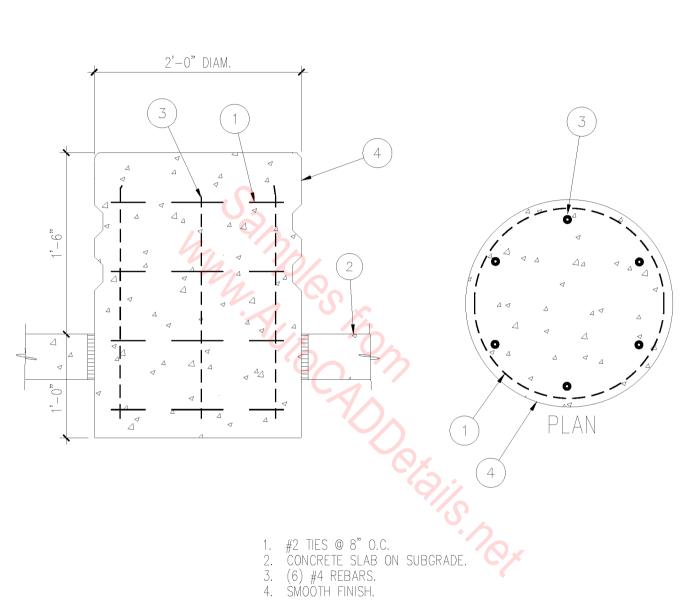


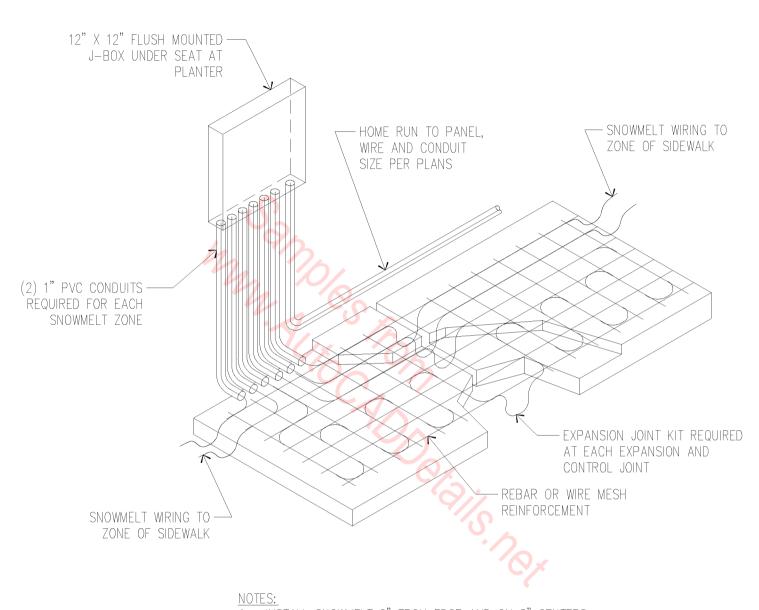
- 1. HEAVY DUTY GRATE & FRAME.
- 2. #4 REBARS CONTINUOUS TOP & BOTTOM. 3. C.I.P CONCRETE TRENCH
- DRAIN.
- 4. CONSTRUCT END OF TRENCH DRAINS SIMILAR TO SIDE CONSTRUCTION.
- 5. CONCRETE SLAB ON SUBGRADE.6. 1" RADIUS.



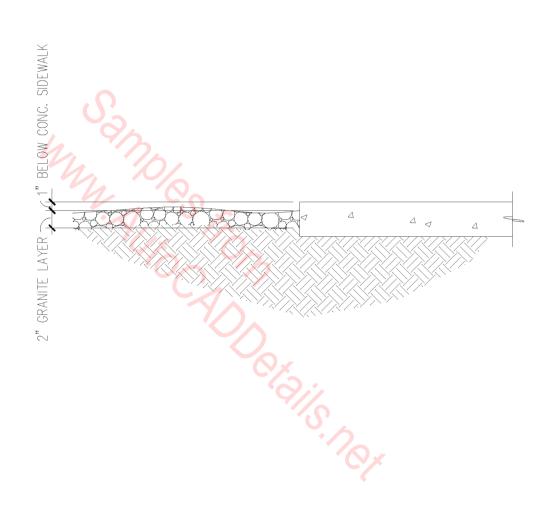


- 1. CONCRETE SLAB.
- AGGREGATE BASE COURSE.
- 2. AGGREGATE BASE COURSE.
  3. ASPHALTIC IMPREGNATED EXPANSION JOINT. WITH BOND BREAKER, TAPE, BACKER ROD, AND SEALANT.
- #4 SMOOTH REBARS 2'-0" LONG @ 24" O.C. (GREASE ONE END LIBERALLY).
- 5. BACKER ROD AND SEALANT.



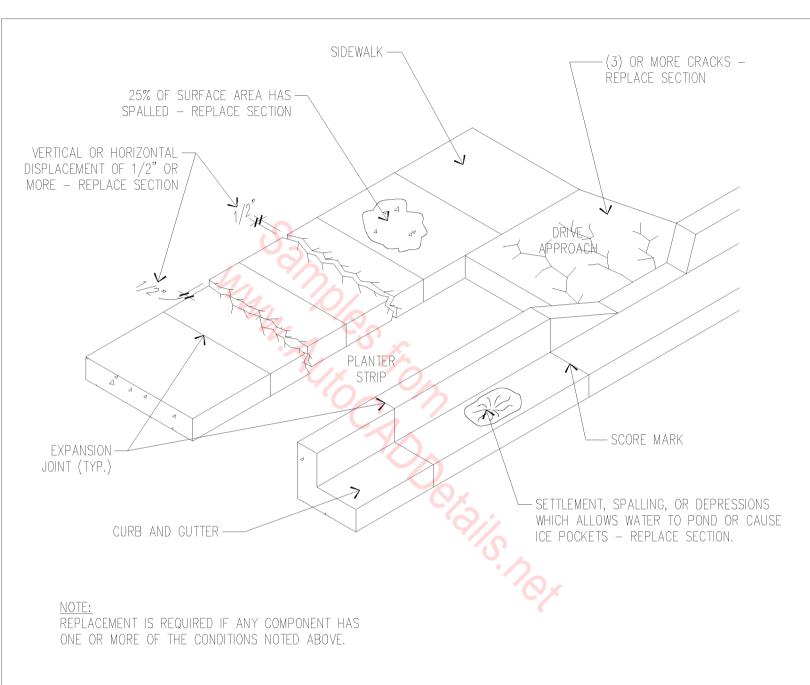


A. INSTALL SNOWMELT 6" FROM EDGE AND ON 8" CENTERS.
B. SECURE TO REBAR/REINFORCEMENT WIRE WITH PLASTIC TIES AT 18" CENTERS AND AT EACH MIDPOINT OF BEND.



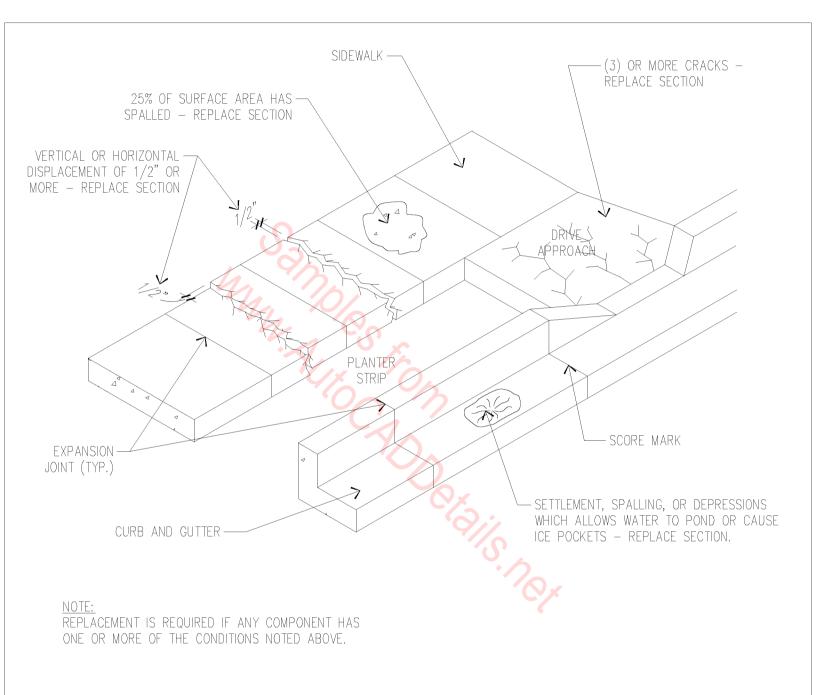
SIDEWALK DETAIL

1" = 1'-0"

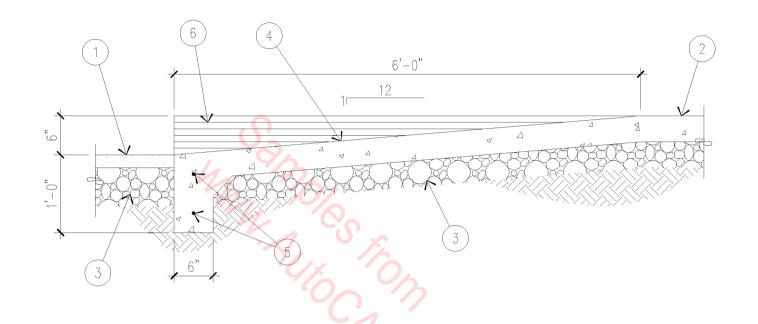


CONCRETE REPLACEMENT CRITERIA

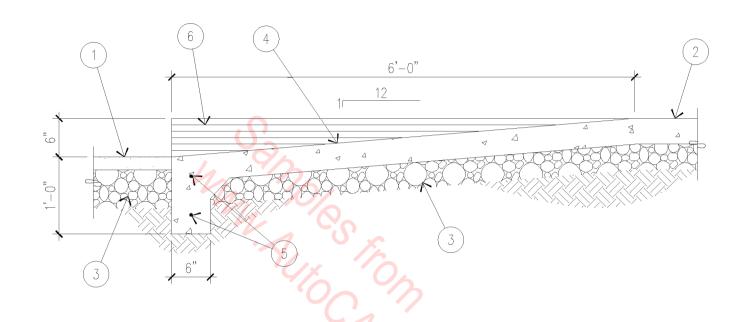
N.T.S.





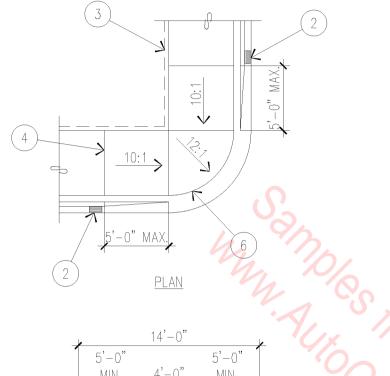


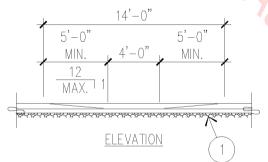
- 2" ASPHALT ON 4" ROAD BASE.
  4" CONCRETE SLAB ON 6" A.B.C.,
  REINFORCED PER GENERAL CONDITIONS.
- 3. AGGREGATE BASE COURSE.
- 4. CONCRETE RAMP.
- 5.
- (2) #4 REBAR, CONTINUOUS.
  1/4" GROOVES, 1/8" DEEP, AT 1"
  CENTERS FULL FACE OF RAMP.

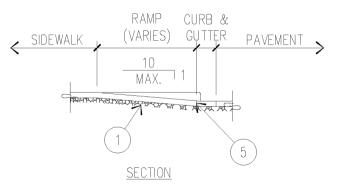


- 2" ASPHALT ON 4" ROAD BASE. 4" CONCRETE SLAB ON 6" A.B.C., REINFORCED PER GENERAL CONDITIONS.
- AGGREGATE BASE COURSE.
- 4. CONCRETE RAMP.
- 5.
- (2) #4 REBAR, CONTINUOUS. 1/4" GROOVES, 1/8" DEEP, AT 1" CENTERS FULL FACE OF RAMP.

= 1'-0''







- 1. UNDER RAMP USE UNTREATED BASE COURSE MATERIAL ONLY WHERE EXISTING SOIL IS UNSATISFACTORY AND WHERE USE IS PROPERLY APPROVED.
- 2. LOCATE THE INLET GRATE 2" MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
- 3. WHERE EXISTING GROUND BEHIND SIDEWALK IS TOO HIGH TO ALLOW SIDEWALK TO RAMP DOWN, GRADE GROUND TO ACCEPTABLE SLOPE OR INSTALL CURB WALL AS REQUIRED.
- 4. EXPANSION JOINT (TYPICAL).
- 5. CONSTRUCTION JOINT.
- 6. CONSTRUCTION JOINT OR POUR MONOLITHICALLY AT CONTRACTOR'S OPTION.

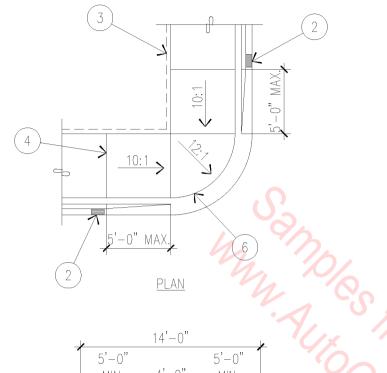
#### GENERAL NOTES:

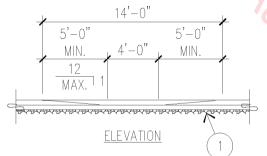
- A. USE 4,000 P.S.I. CONCRETE.
- B. SLOPES SHOWN AS 12:1 SHALL BE MEASURED USING THE AVERAGE GRADE OF THE CLOSEST 50' OF SIDEWALK UPHILL FROM THE RAMP AS A HORIZONTAL REFERENCE (BY DEFINITION). WHERE THE AVERAGE GRADE IS LESS THAN 12:1 OR HAS A NEGATIVE SLOPE, THE SIDEWALK RAMP SHALL BE CONSTRUCTED AS 12:1 FROM ACTUAL HORIZONTAL.
- C. ALTERNATE LOCATION OF HANDICAP RAMP FOR STREETS WITH P.T. CURVE RADIUS OF LESS THAN 25 FEET AND WITH SLOPES GREATER THAN 10% USED WITH PROPER APPROVAL.
- D. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2".
- E. USE FINE HAIR BROOM TO FINISH ON GRADES UNDER 6%. OVER 6% GRADE, USE ROUGH HAIR BROOM.
- F. SLOPES SHOWN ARE MAXIMUM SLOPES.

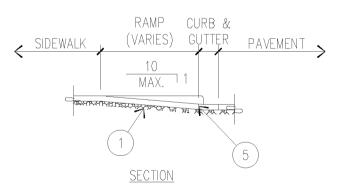
SIDEWALK RAMP

N.T.S.

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- 1. UNDER RAMP USE UNTREATED BASE COURSE MATERIAL ONLY WHERE EXISTING SOIL IS UNSATISFACTORY AND WHERE USE IS PROPERLY APPROVED.
- 2. LOCATE THE INLET GRATE 2" MINIMUM AWAY FROM THE PEDESTRIAN CROSSWALK WITH ALL DRAINAGE INTERCEPTED BEFORE IT GETS TO THE CROSSWALK AREA.
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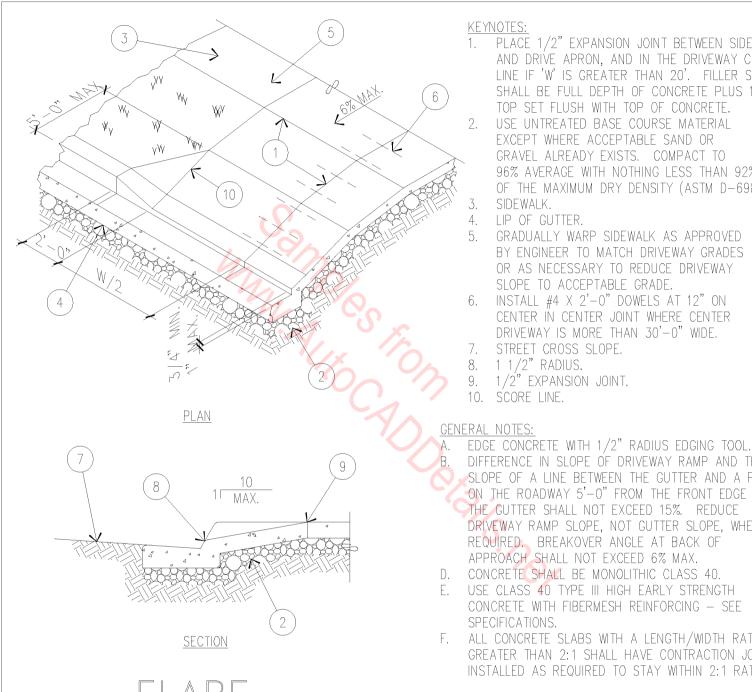
#### GENERAL NOTES:

- A. USE 4,000 P.S.I. CONCRETE.
- B. SLOPES SHOWN AS 12:1 SHALL BE MEASURED USING THE AVERAGE GRADE OF THE CLOSEST 50' OF SIDEWALK UPHILL FROM THE RAMP AS A HORIZONTAL REFERENCE (BY DEFINITION). WHERE THE AVERAGE GRADE IS LESS THAN 12:1 OR HAS A NEGATIVE SLOPE, THE SIDEWALK RAMP SHALL BE CONSTRUCTED AS 12:1 FROM ACTUAL HORIZONTAL.
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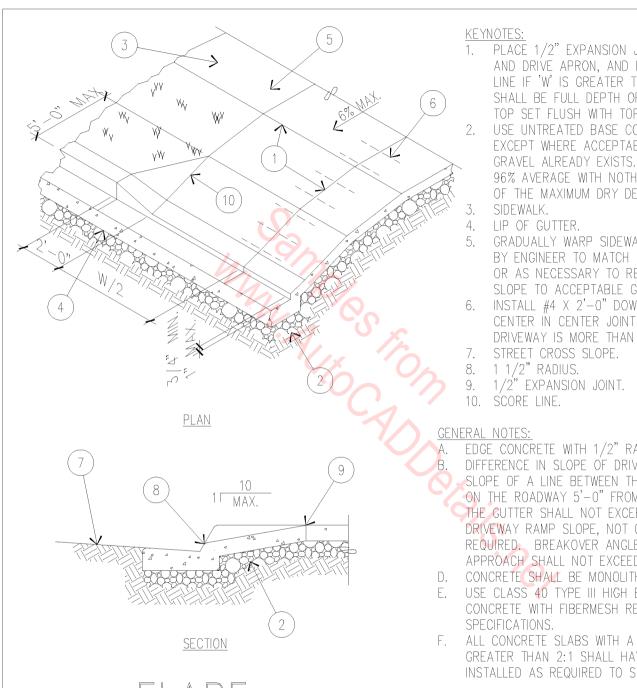
SIDEWALK RAMF

N.T.S.

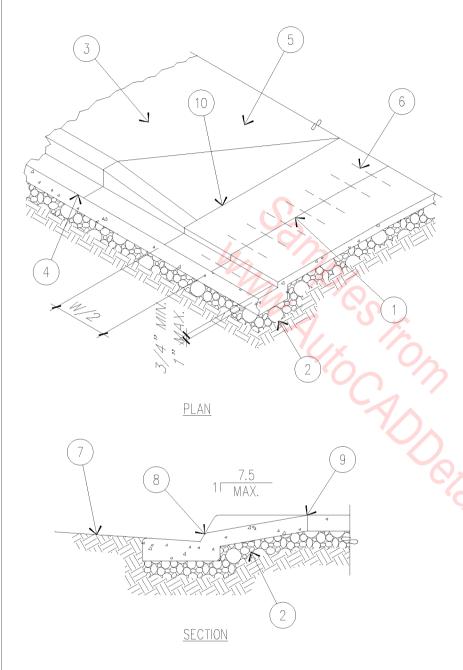
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- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
  - GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- CONCRETE SHALL BE MONOLITHIC CLASS 40.
- USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING - SEE
- ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN 2:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE
- SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-O" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- CONCRETE SHALL BE MONOLITHIC CLASS 40.
- USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING - SEE
- ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN 2:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.



- 1. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- 2. USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- 3. SIDEWALK.
- 4. LIP OF GUTTER.
- 5. GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- 6. INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- 7. STREET CROSS SLOPE.
- 8. 1 1/2" RADIUS.
- 9. 1/2" EXPANSION JOINT.
- 10. STRAIGHT SCORE LINE.

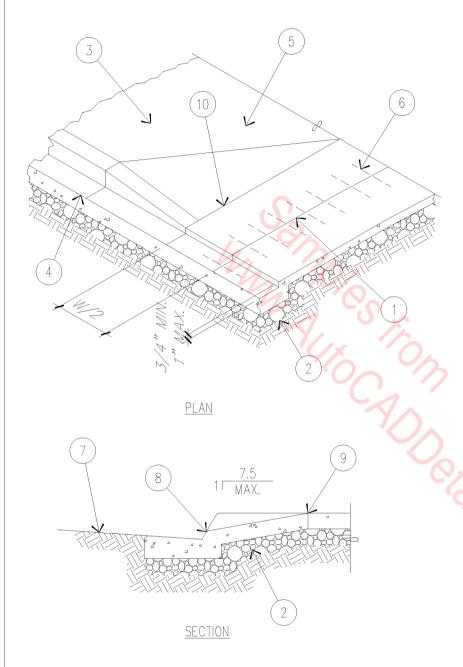
#### GENERAL NOTES:

- A. EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- B. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- C. CONCRETE SHALL BE MONOLITHIC CLASS 40.
- D. USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING SEE SPECIFICATIONS.

## DIP DRIVEWAY APPROACH

N.T.S.

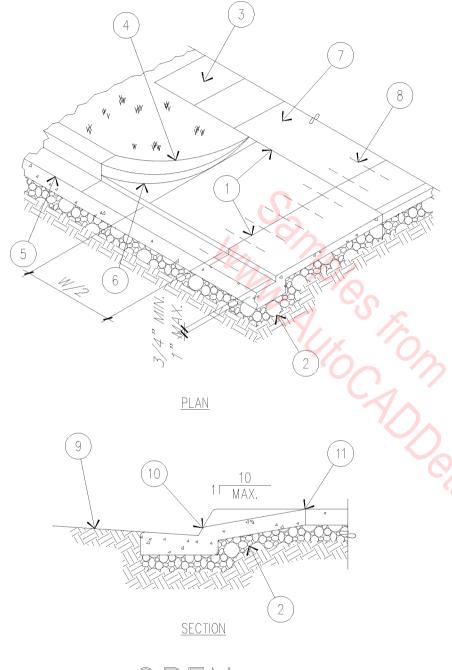
 $\overline{02A} - 4011$ 



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- LIP OF GUTTER. 4.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE. 1 1/2" RADIUS.
- 8.
- 1/2" EXPANSION JOINT.
- 10. STRAIGHT SCORE LINE.

#### GENERAL NOTES:

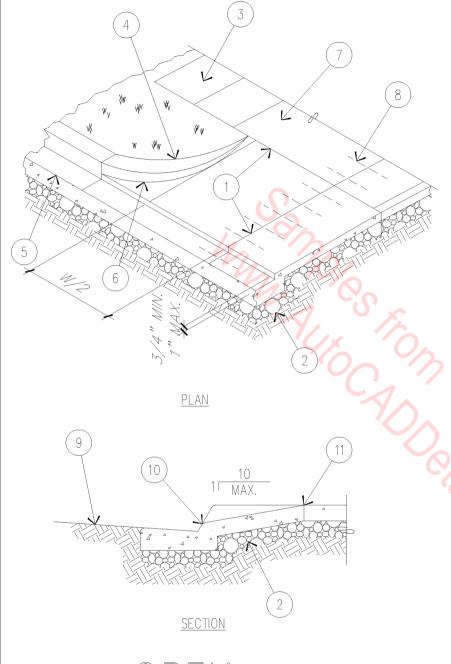
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- CONCRETE SHALL BE MONOLITHIC CLASS 40.
- USE CLASS 40 TYPE III HIGH EARLY STRENGTH CONCRETE WITH FIBERMESH REINFORCING -SEE SPECIFICATIONS.



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- 5'-6" MAXIMUM RADIUS.
- LIP OF GUTTER.
- CURB RETURN.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE.
- 10. 1 1/2" RADIUS.11. 1/2" EXPANSION JOINT.

#### GENERAL NOTES:

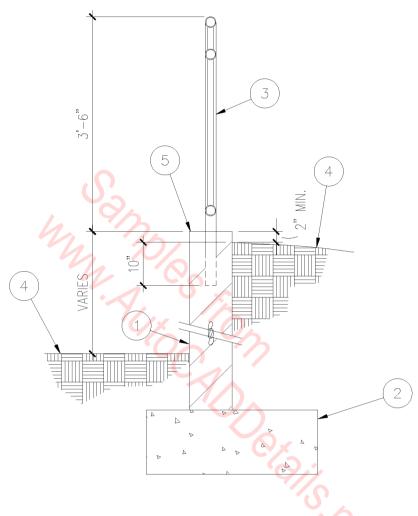
- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- LIP MAY BE ELIMINATED IF DESIRED.
- CONCRETE SHALL BE MONOLITHIC 4,000 P.S.I. REINFORCED WITH POLYPROPYLENE MULTI-FILAMENT FIBERS.



- PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND DRIVE APRON, AND IN THE DRIVEWAY CENTER-LINE IF 'W' IS GREATER THAN 20'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1" WITH TOP SET FLUSH WITH TOP OF CONCRETE.
- USE UNTREATED BASE COURSE MATERIAL EXCEPT WHERE ACCEPTABLE SAND OR GRAVEL ALREADY EXISTS. COMPACT TO 96% AVERAGE WITH NOTHING LESS THAN 92% OF THE MAXIMUM DRY DENSITY (ASTM D-698).
- SIDEWALK.
- 5'-6" MAXIMUM RADIUS. 4.
- LIP OF GUTTER.
- CURB RETURN.
- GRADUALLY WARP SIDEWALK AS APPROVED BY ENGINEER TO MATCH DRIVEWAY GRADES OR AS NECESSARY TO REDUCE DRIVEWAY SLOPE TO ACCEPTABLE GRADE.
- INSTALL #4 X 2'-0" DOWELS AT 12" ON CENTER IN CENTER JOINT WHERE CENTER DRIVEWAY IS MORE THAN 30'-0" WIDE.
- STREET CROSS SLOPE.
- 10. 1 1/2" RADIUS. 11. 1/2" EXPANSION JOINT.

#### GENERAL NOTES:

- EDGE CONCRETE WITH 1/2" RADIUS EDGING TOOL.
- DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE €UTTER AND A POINT ON THE ROADWAY 5'-0" FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED. BREAKOVER ANGLE AT BACK OF APPROACH SHALL NOT EXCEED 6% MAX.
- LIP MAY BE ELIMINATED IF DESIRED.
- CONCRETE SHALL BE MONOLITHIC 4,000 P.S.I. REINFORCED WITH POLYPROPYLENE MULTI-FILAMENT FIBERS.

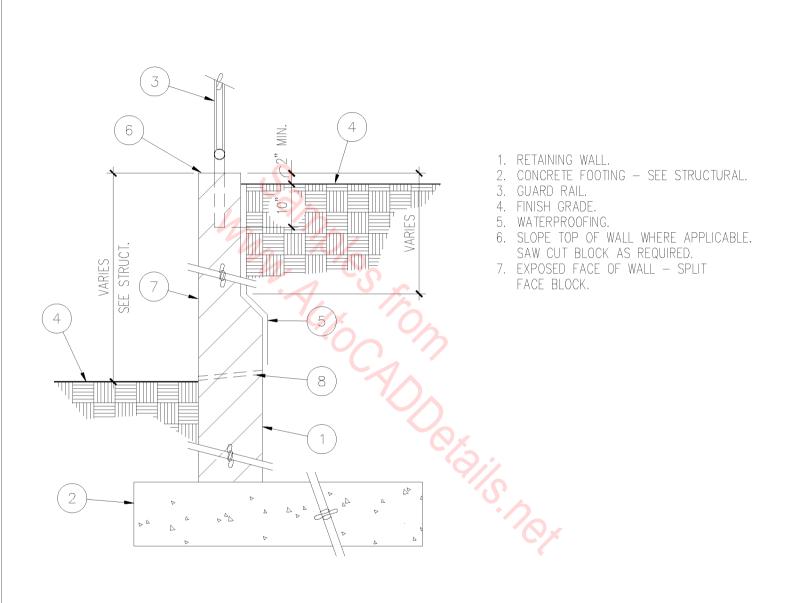


- 1. EXPOSED FACE OF WALL SPLIT FACE BLOCK.

  2. CONCRETE FOOTING — SEE STRUCTURAL.

  3. TYPICAL GUARD RAIL.

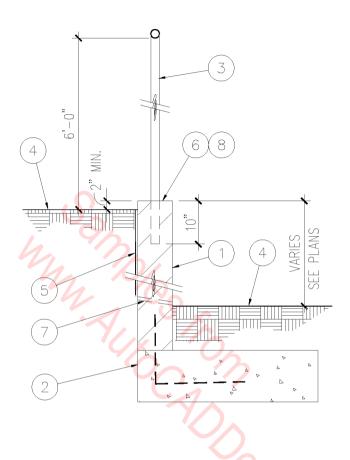
- FINISH GRADE.
   SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.



## GUARD RAIL @ RETAINING WALL

1/2" = 1'-0"

 $\overline{02A} - 3002$ 

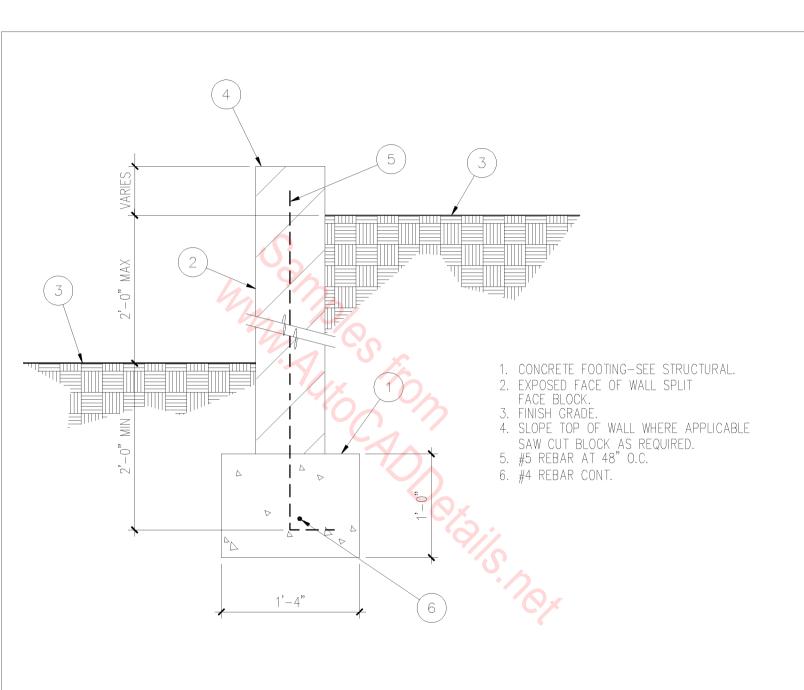


- 1. RETAINING WALL SEE STRUCTURAL.
- 2. CONCRETE FOOTING SEE STRUCTURAL.
- 2. CONCRETE FO 3. GUARD RAIL.
- 4. FINISH GRADE.
- 5. WATERPROOFING.
- 6. SOLID CAP BLOCK.
- 7. WEEP HOLE.
- 8. SLOPE TOP OF WALL WHERE APPLICABLE SAW CUT BLOCK AS REQUIRED.

## RETAINING WALL WITH OFFSET FOOTING

1/2" = 1'-0"

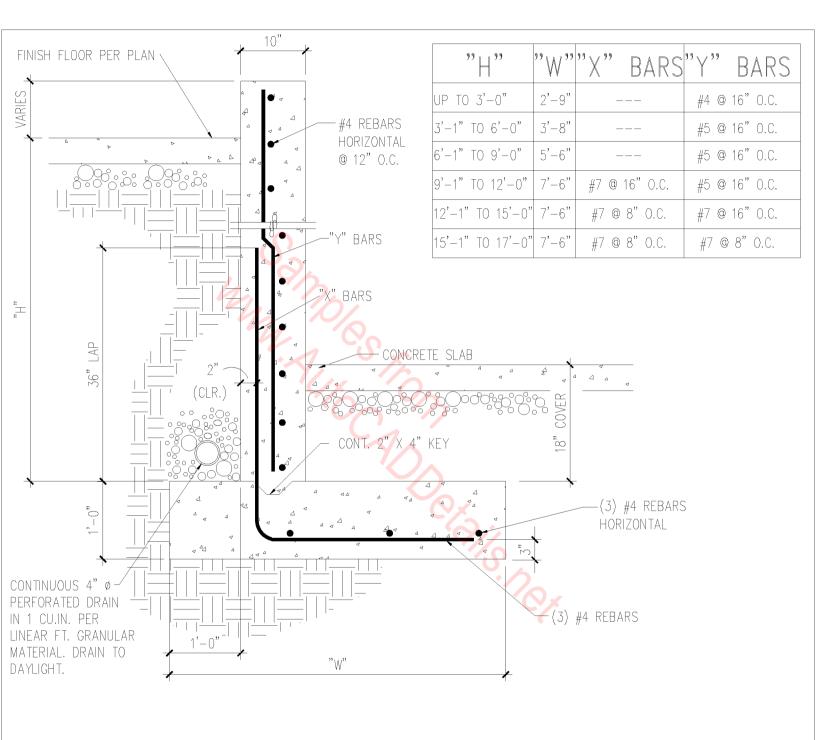
02A - 3003



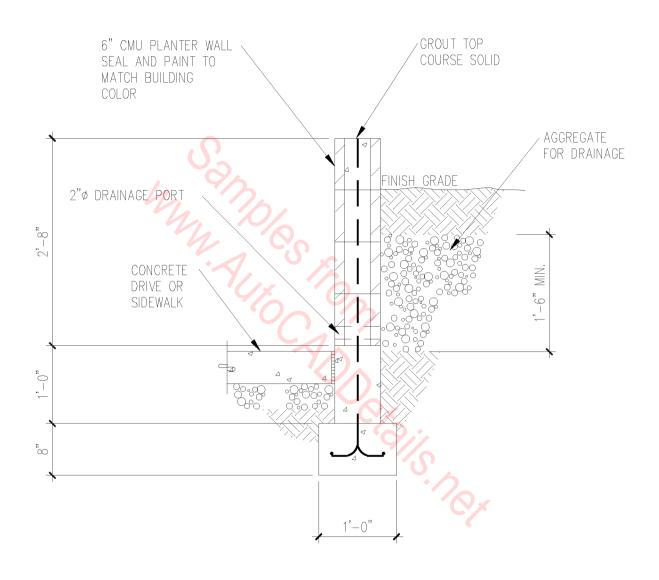
## RETAINING WALL

1" = 1'-0'

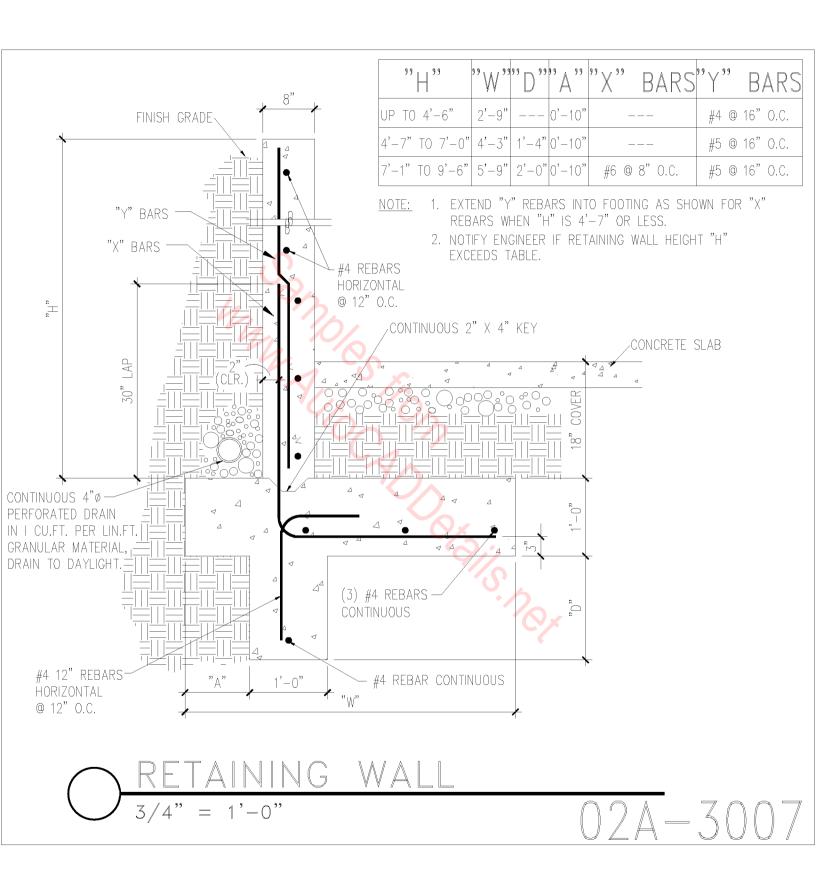
02A - 3004

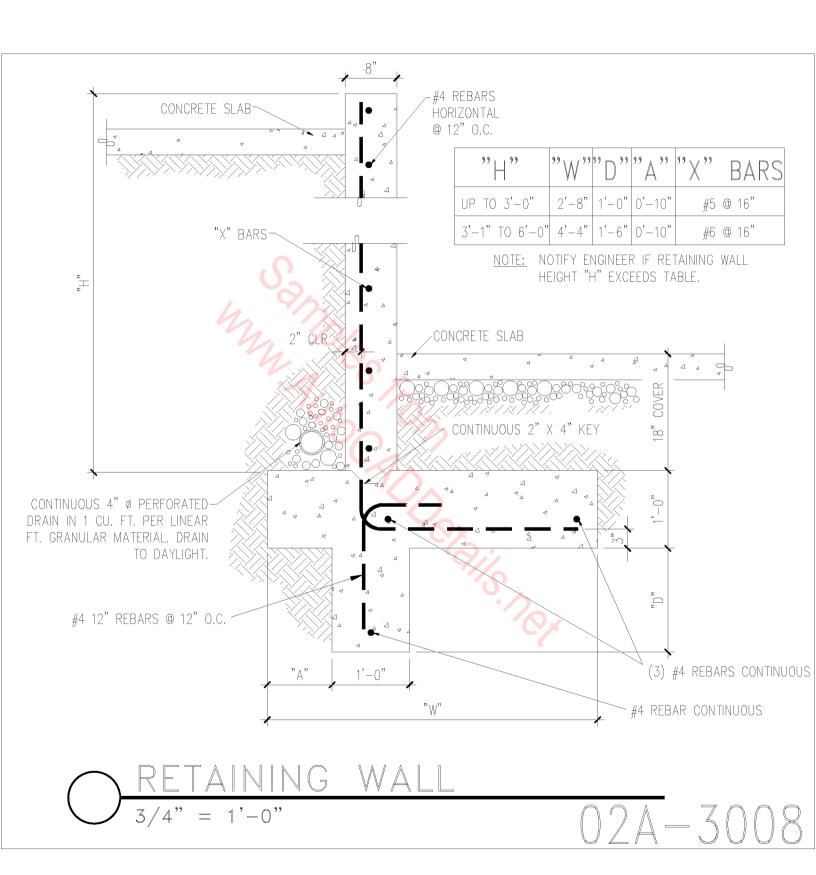


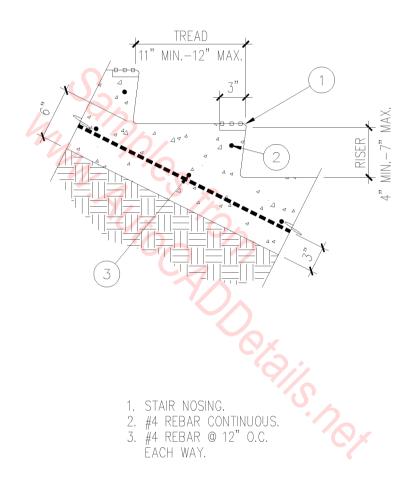
# 



 $O\frac{C.M.U.PLANTERSECTION}{3/4"=1'-0"}$  O2A-3006



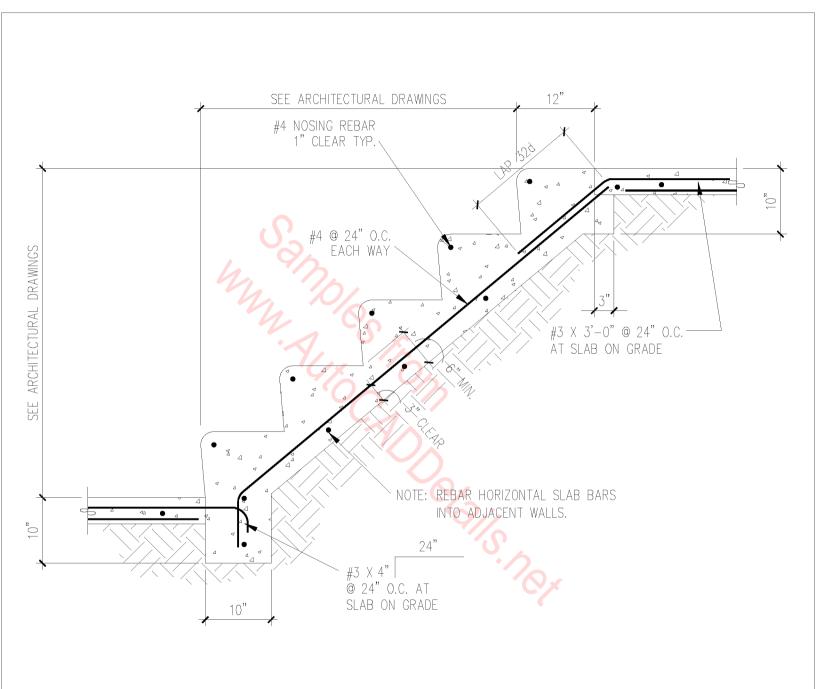




## EXTERIOR STAIRS

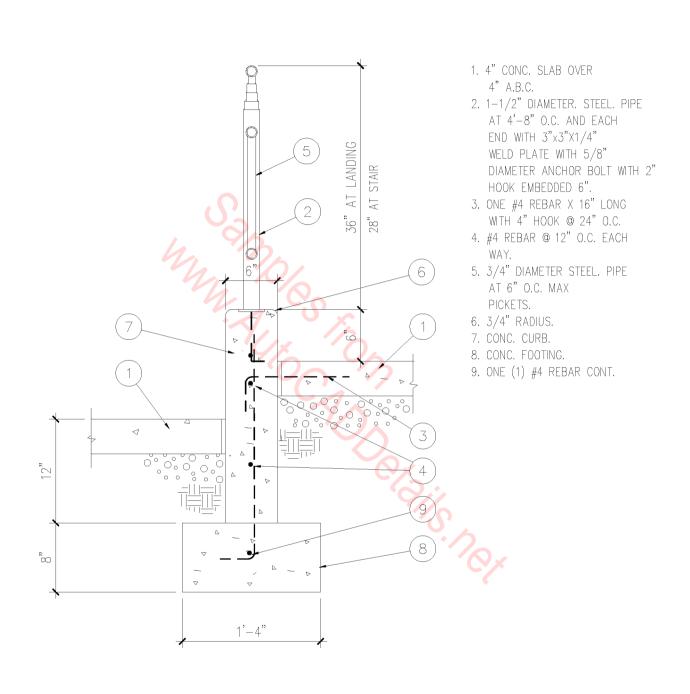
1" = 1'-0"

 $\overline{02A} - 5001$ 

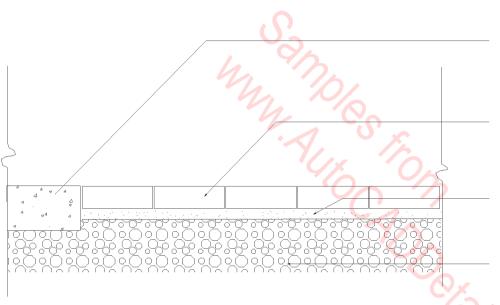


# ONC. STAIRS ON GRADE

02A - 5002



SCALE: 1" = 1' - 0"



4" CONCRETE WALK FINE SAND FILLED JOINT BETWEEN CONCRETE AND PAVER

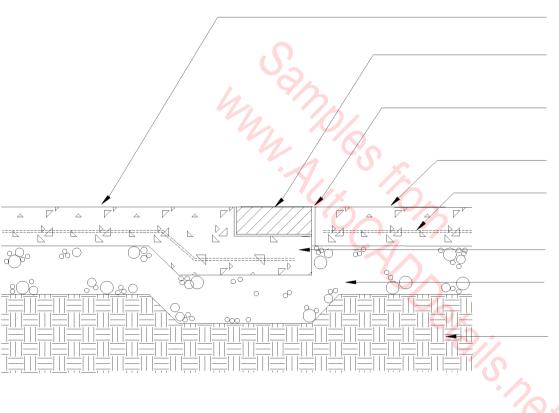
CONCRETE INTERLOCKING
PAVERS (UNI-DECOR/EUROSTONE
OR AS APPROVED BY LANDSCAPE
ARCHITECT)

1" MAXIMUM SHARP SAND LEVELING BED FOR PAVERS WITH A GEO— TEXTILE FABRIC ATOP GRAVEL

5-6" SUBBASE OF CLASS 5 GRAVEL OR AS SPECIFIED BY MANUFACTURER

<u>concrete interlocking paver detail</u>

SCALE: 1-1/2" = 1'-0"



4" REINF. CONCRETE WALK

PAVERS SET ON MORTAR SETTING BED OR EPOXY ADHESIVE.

"HORN" STRIP JOINT EXPANSION JOINT (3/8" X 4")

EXISTING CONCRETE WALK

#4 REINF. BAR

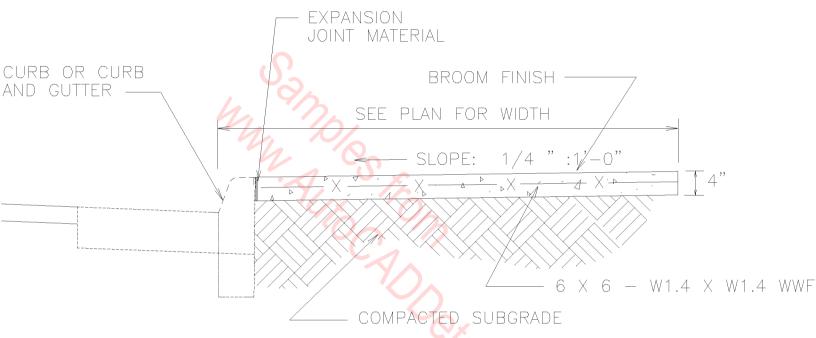
4" THICKEN SLAB AREA

5" COMPACTED CLASS 5 GRAVEL

UNDISTURBED SOIL

ROWLOCK PAVER DETAIL

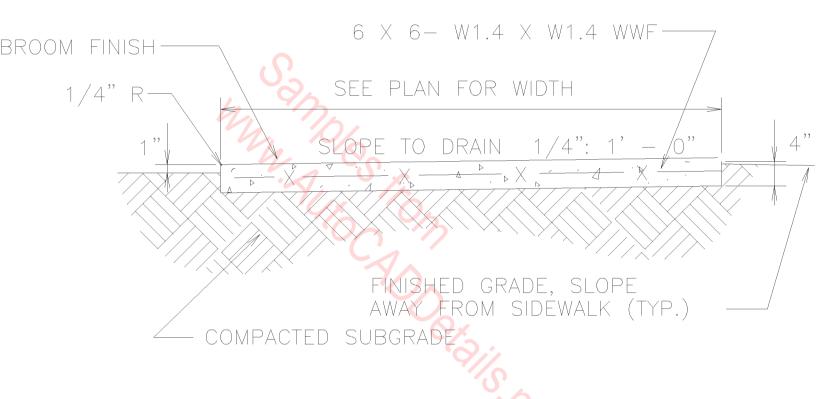
SCALE: 1-1/2" = 1'-0"

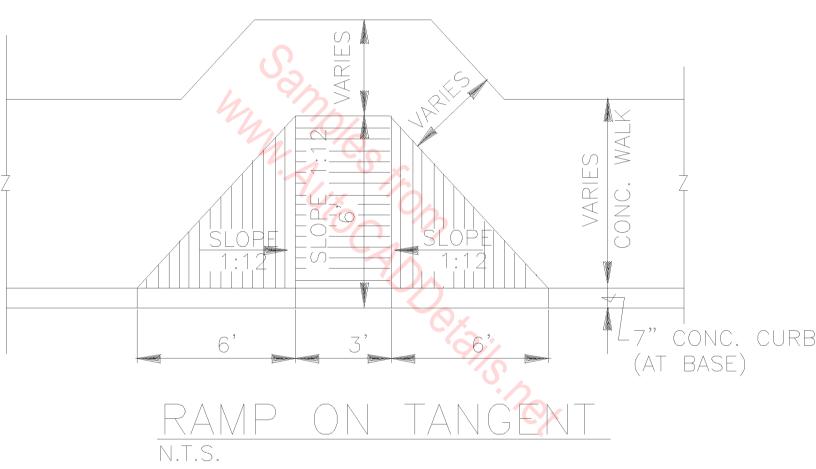


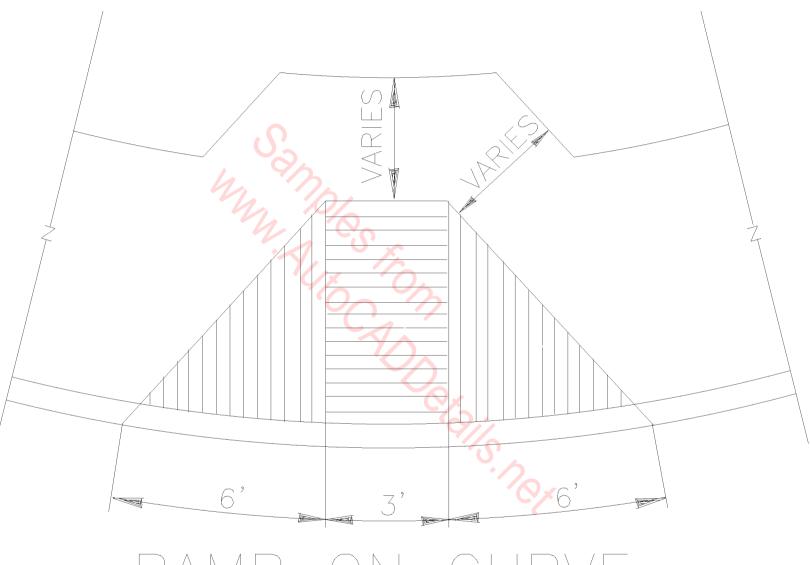
NOTE: TO BE USED WHERE ADJACENT TO CURB OR CURB AND GUTTER

CONCRETE\_SIDEWACK

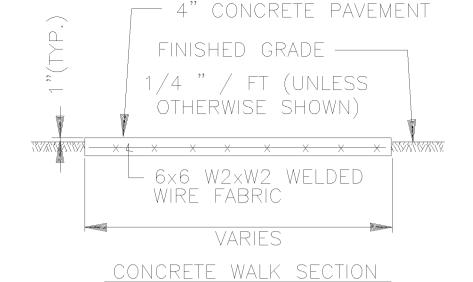
SCALE: 3/4 " = 1' - 0"

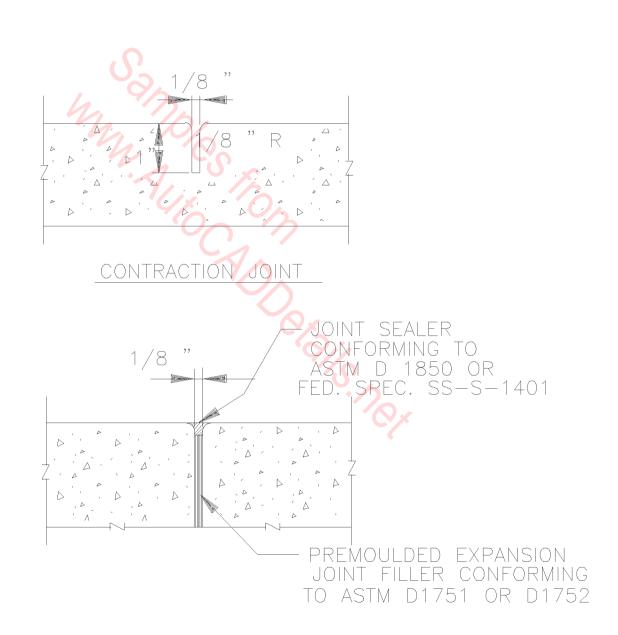






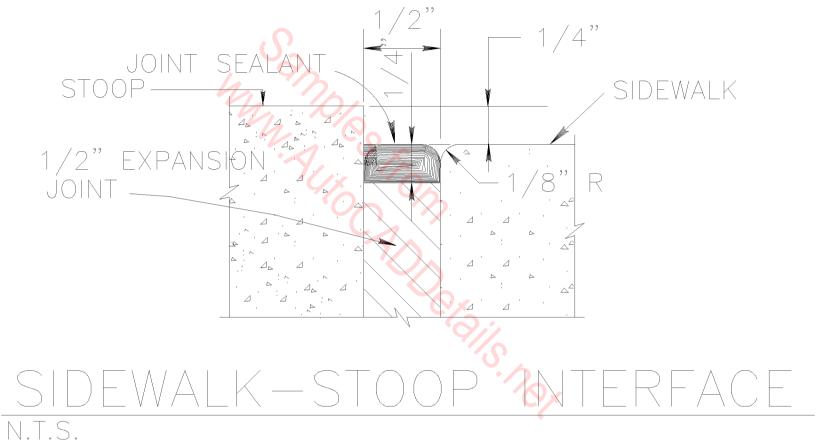
RAMP ON CURVE

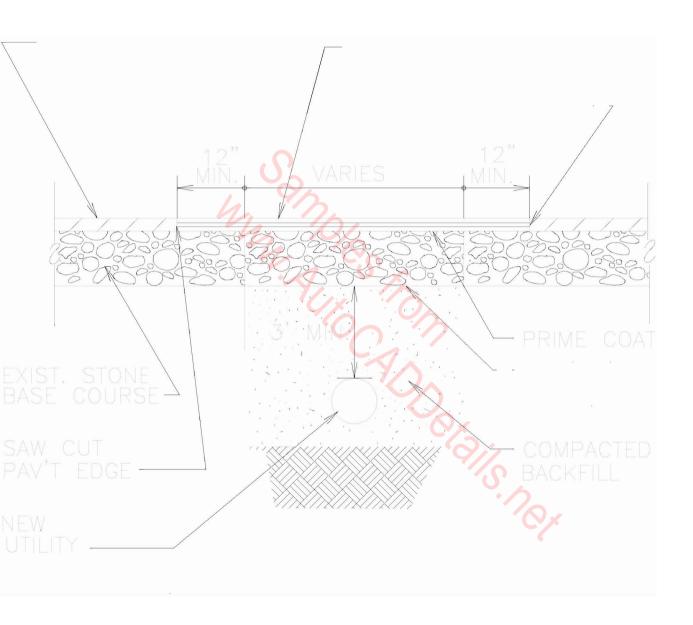


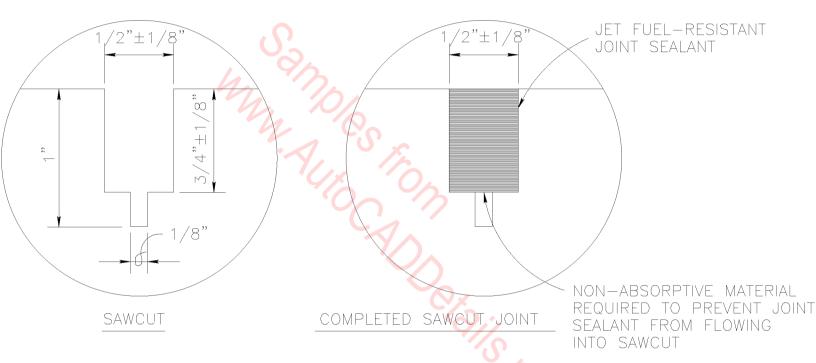


EXPANSION JOINT

### TYPICAL CONCRETE WALK DETAILS

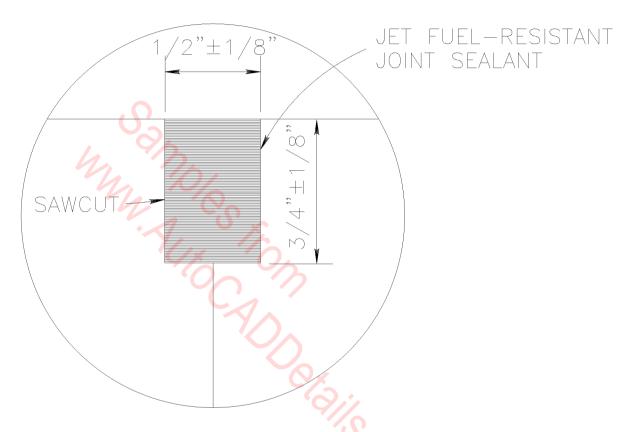






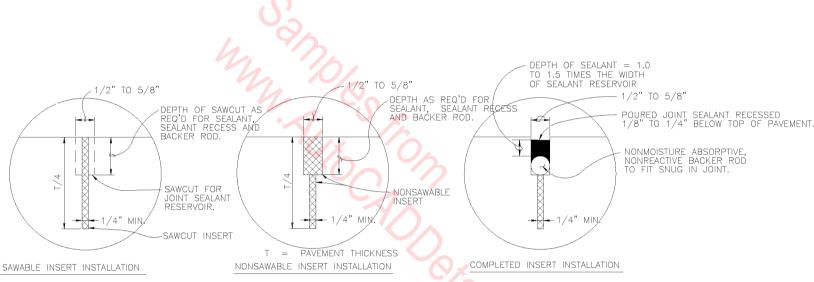
CONTRACTION JOINT DETAILS

N.T.S.

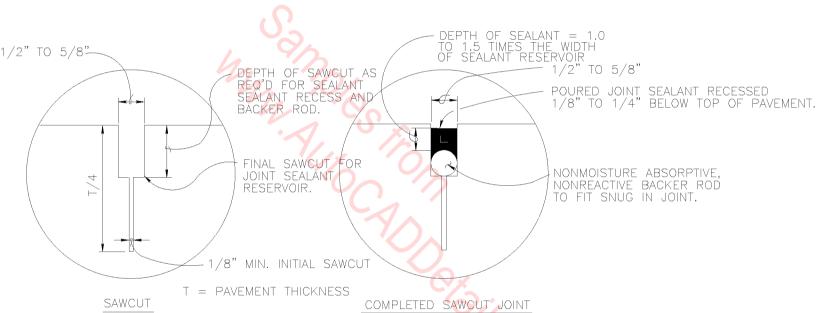


COMPLETED CONSTRUCTION JOINT

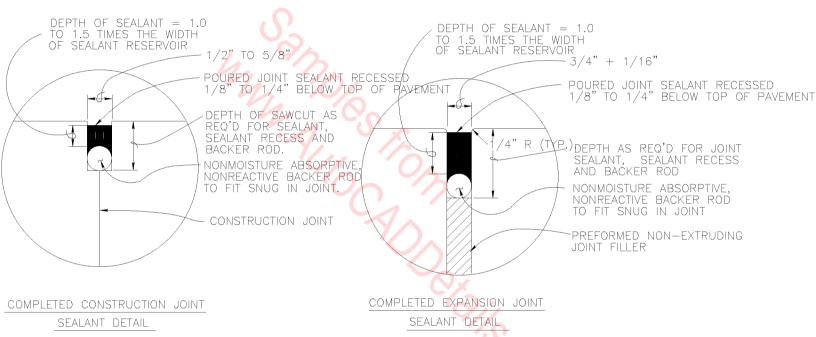
SEALANT DETAIL



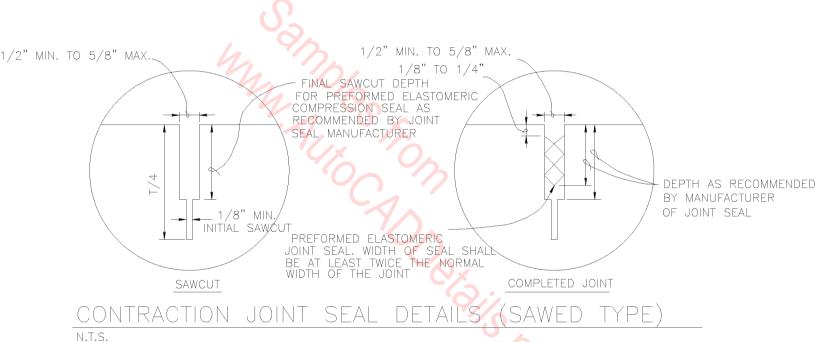
CONTRACTION JOINT SEALANT DETAILS (INSERT TYPE)
N.T.S.

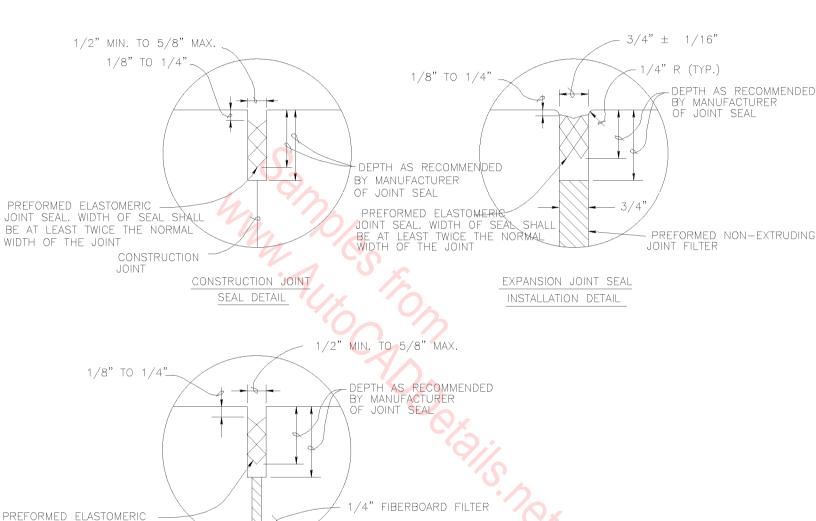


CONTRACTION JOINT SEALANT DETAILS (SAWED TYPE)



POURED JOINT SEALANT DETAILS

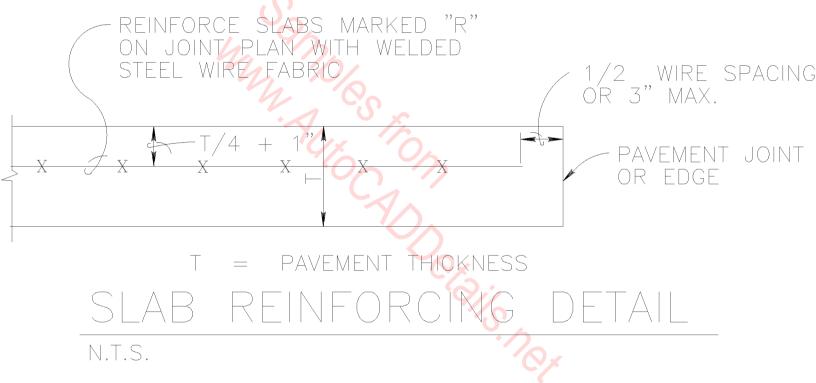


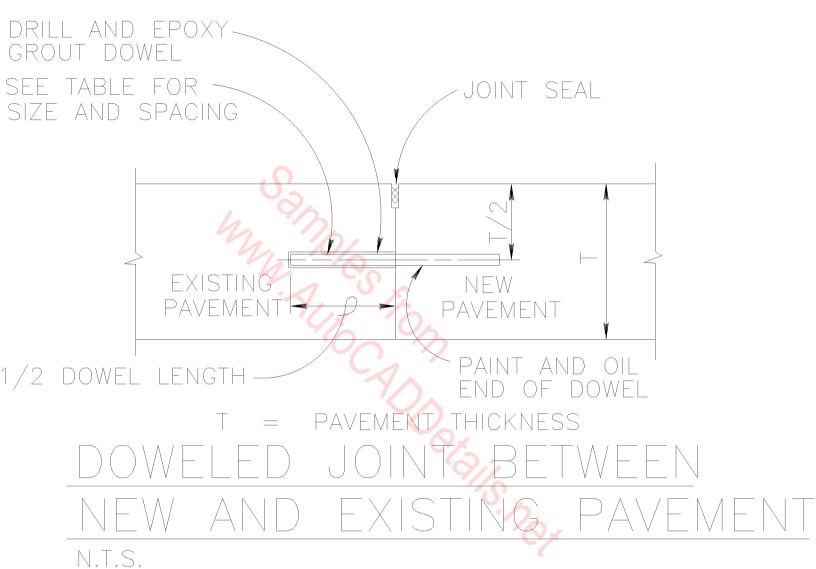


SLIP JOINT SEAL INSTALLATION DETAIL

DOINT SEAL. WIDTH OF SEAL SHALL BE AT LEAST TWICE THE NORMAL WIDTH OF THE JOINT

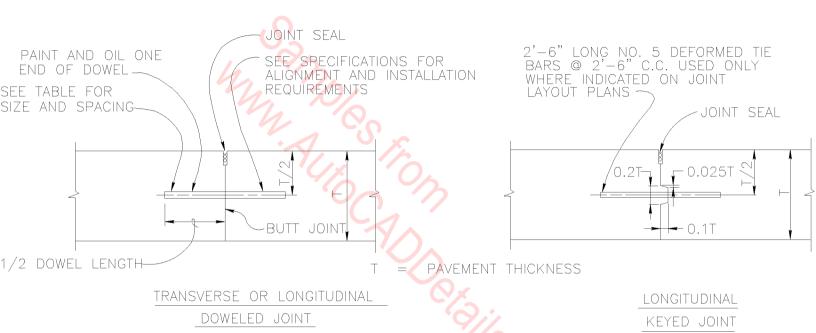
PREFORMED JOINT SEAL DETAILS

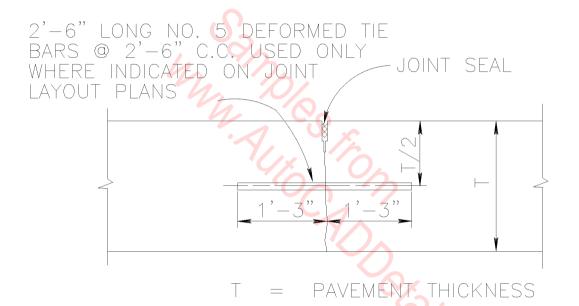




## NOTES:

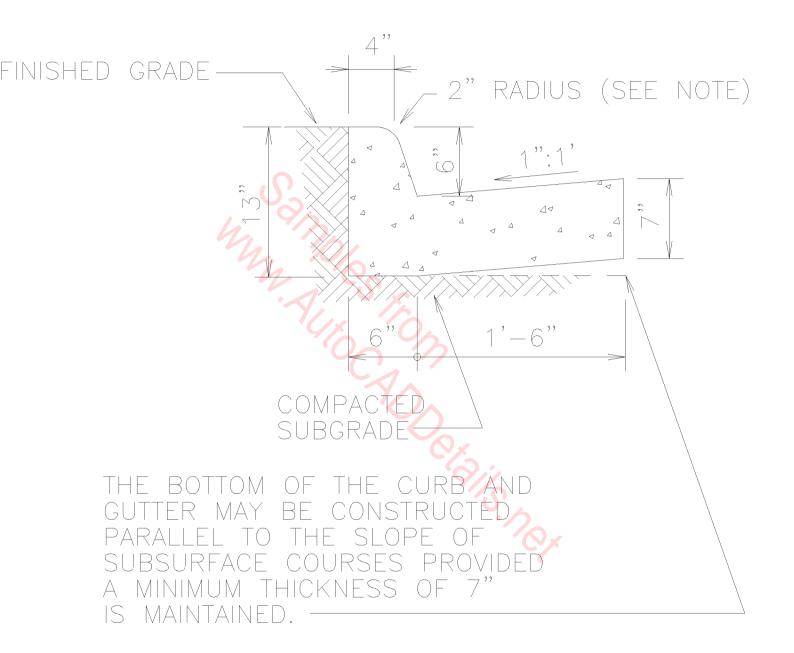
1. HOLES APPROXIMATELY 1/8 INCH GREATER IN DIAMETER THAN THE DOWELS SHALL BE DRILLED IN THE EXISTING CONCRETE AND THE DOWELS SHALL BE BONDED IN THE DRILLED HOLES USING AN EPOXY RESIN GROUT.





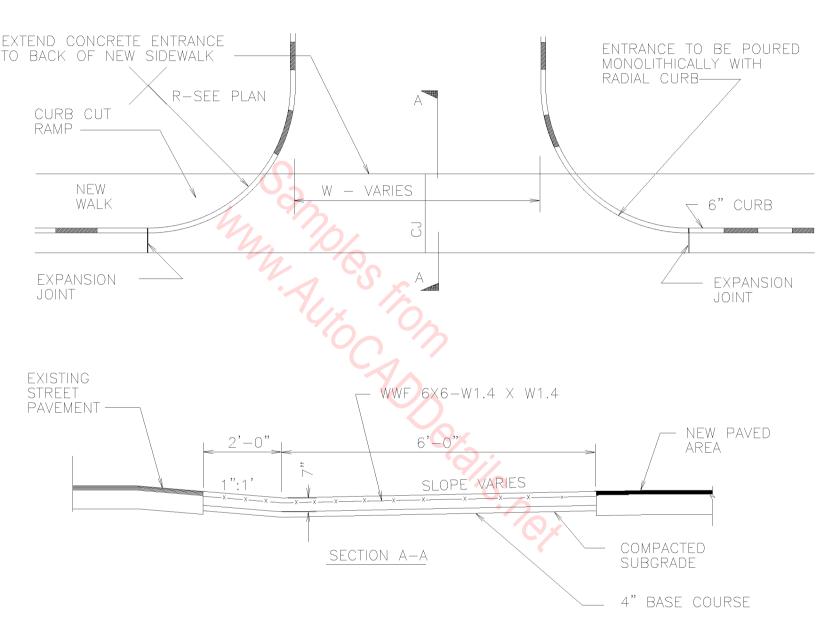
DUMMY GROOVE CONTRACTION JOINT

NOTE: STANDARD CURB SHAPE OF THE STATE IN WHICH THE PROJECT IS LOCATED MAY BE SUBSTITUTED.

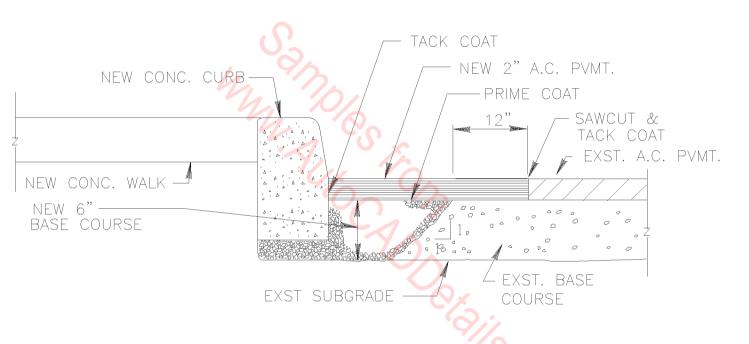


CURB AND GUTTER

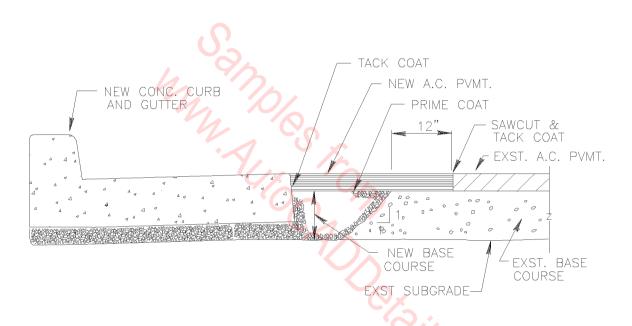
N.T.S.



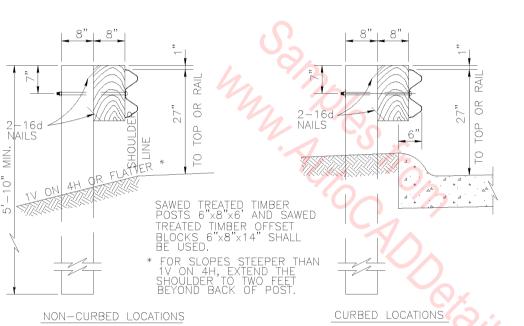
CONCRETE ENTRANCE N.T.S.

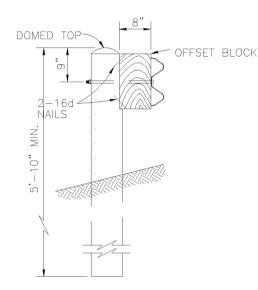


NEW A.C. PAVEMENT AT NEW CONCRETE CURE



NEW A.C. PAVEMENT AT NEW CONCRETE CURB & GUTTER

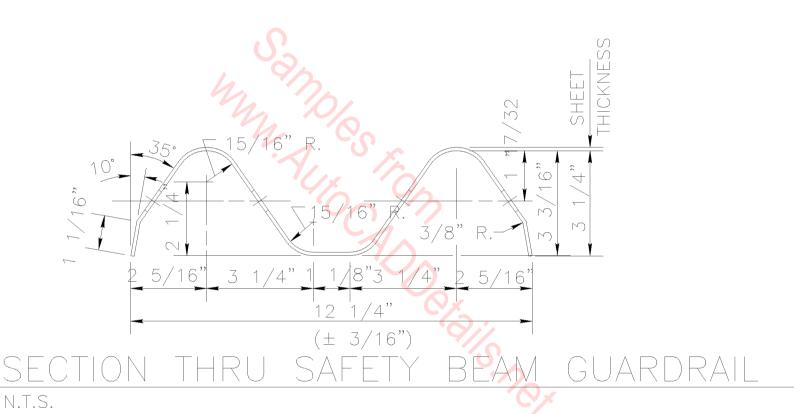


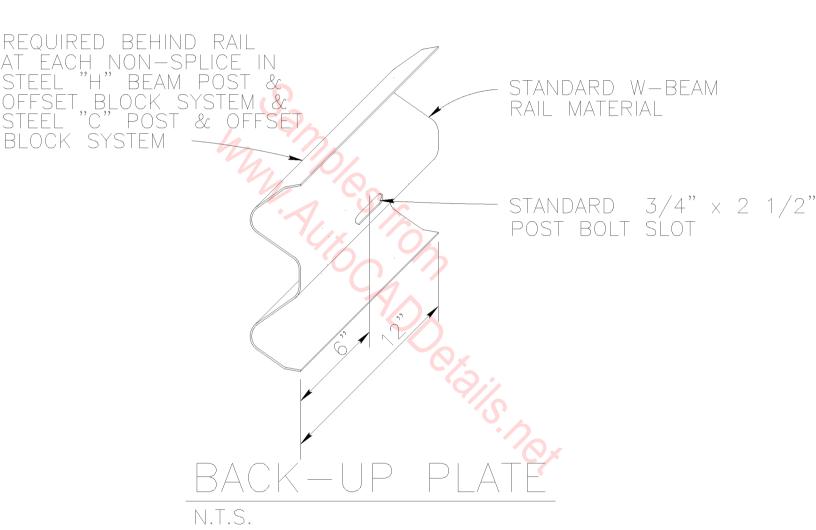


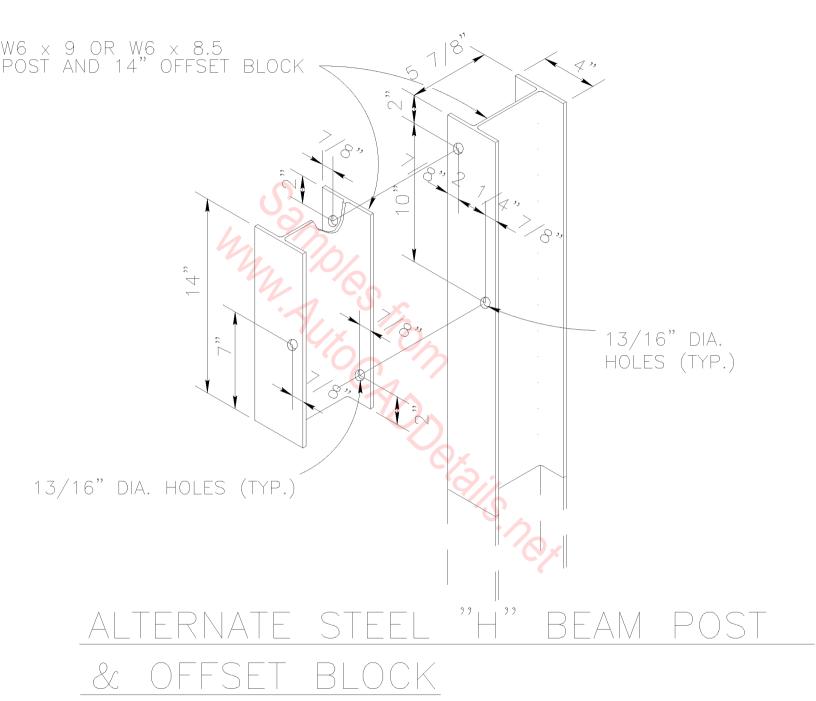
ALTERNATE ROUND WOOD POST

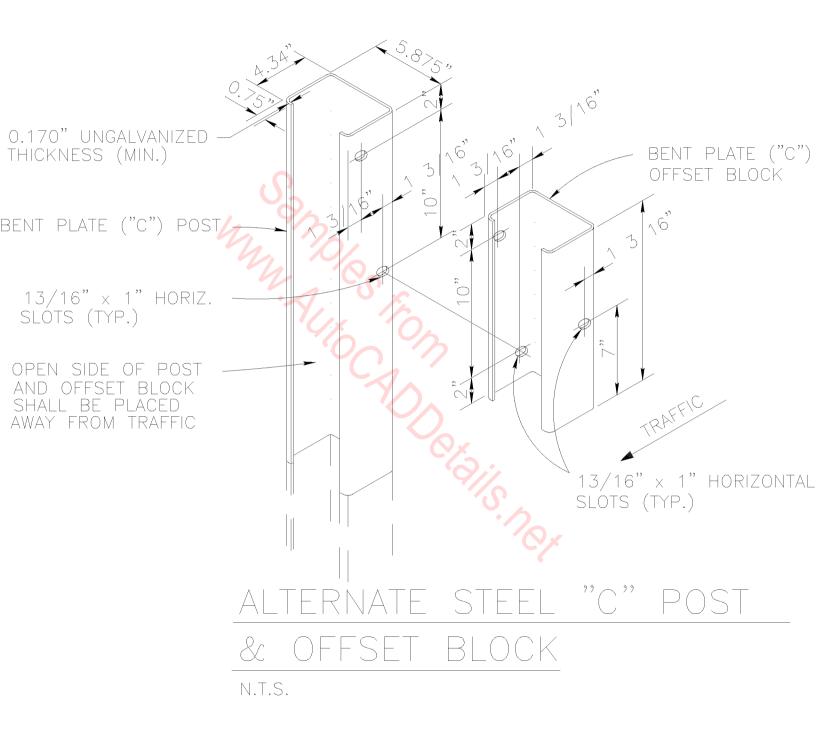
SAWN WOOD POST

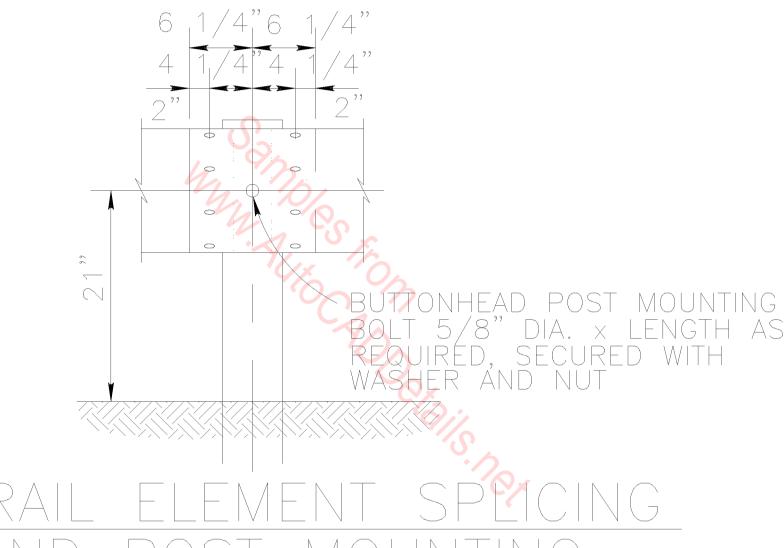
GUARDRAIL POST DETAILS

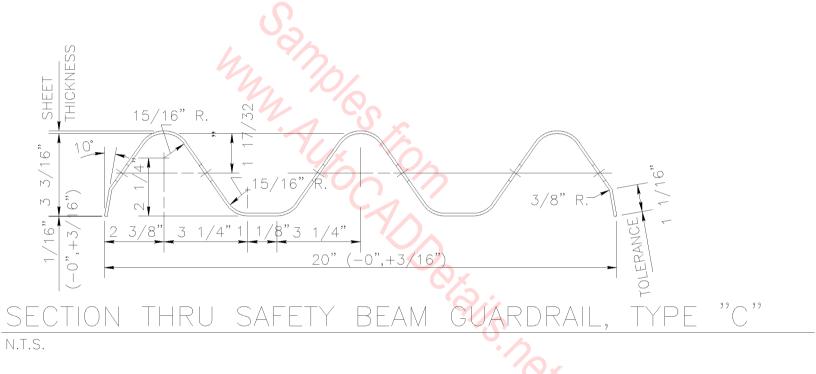


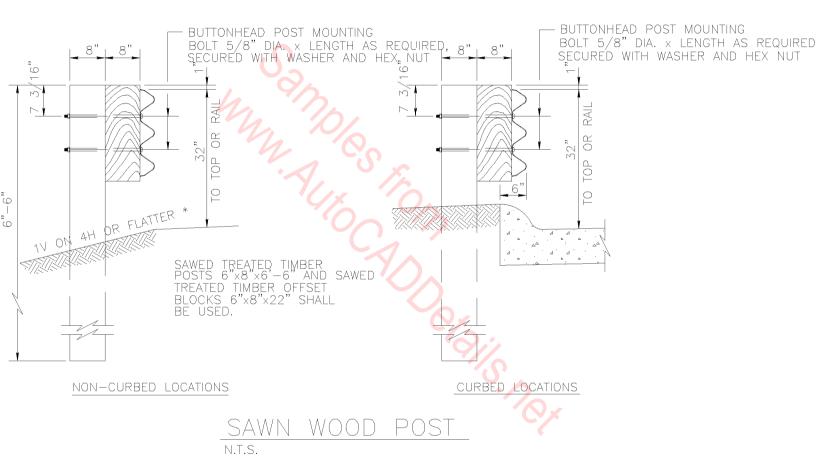










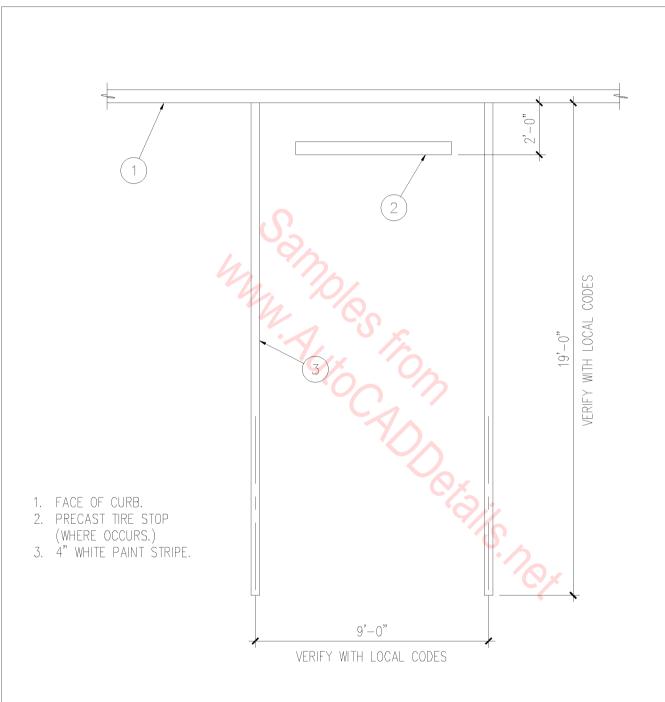




TWO-WAY REFLECTIVE RAISED

PAVEMENT MARKER DETAIL

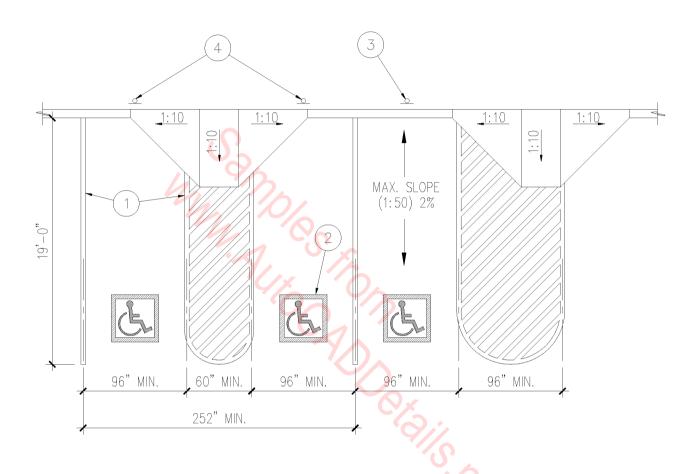
N.T.S.



PARKING STALL

SCALE: 1/4" = 1'-0"

 $\frac{1}{1}$ 

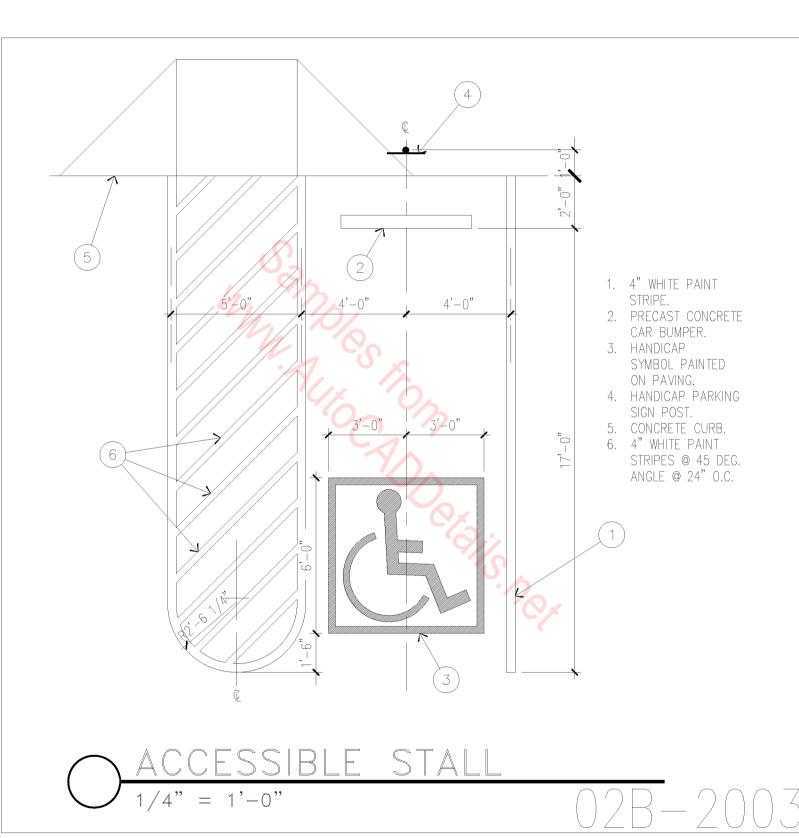


- 1. 4" PAINTED LINES.
- 2. DISABLED SYMBOL WHITE ON BLUE BACKGROUND.
- 3. VAN ACCESSIBLE PARKING SIGNS.
- 4. ACCESSIBLE PARKING SIGNS.

## ACCESSIBLE STALLS

1/8" = 1'-0"

 $\overline{02B} - 2002$ 

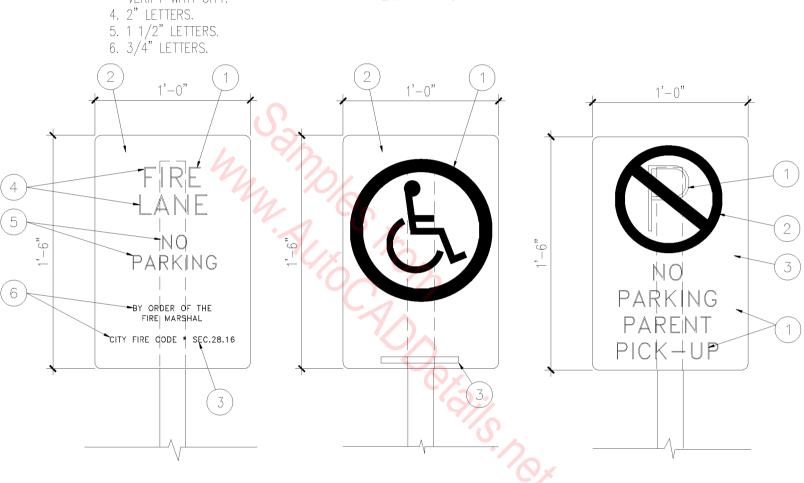




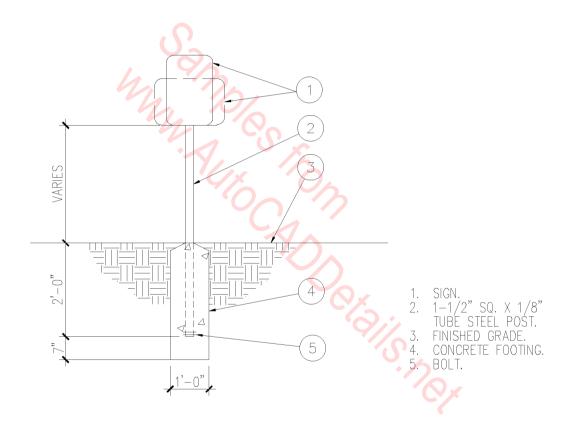
- 2. WHITE BACKGROUND
- 3. ORDINANCE NO. VERIFY WITH CITY.

- 1. BLUE.
- 2. WHITE.
- 3. ORDINANCE NO. VERIFY WITH CITY.

- 1. BLACK.
- 2. RED.
- 3. WHITE.



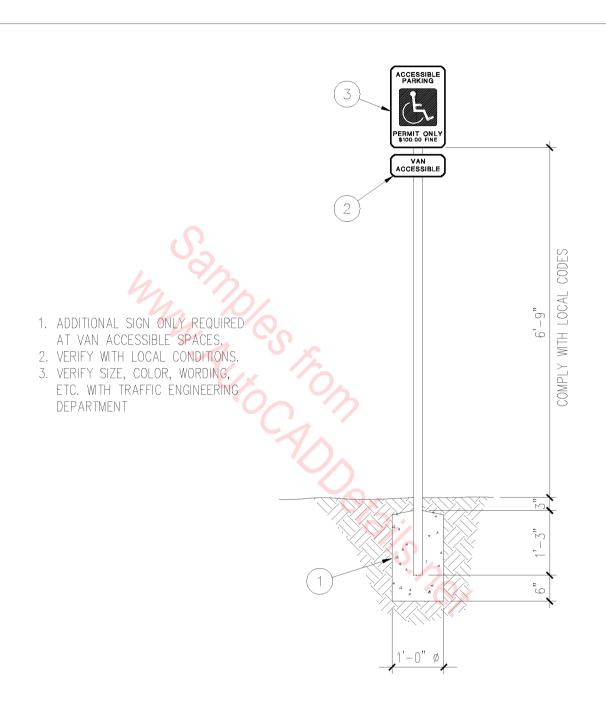
SCALE: 1-1/2" = 1'-0"



TYPICAL PARKING SIGN

SCALE: 3/8" = 1'-0"

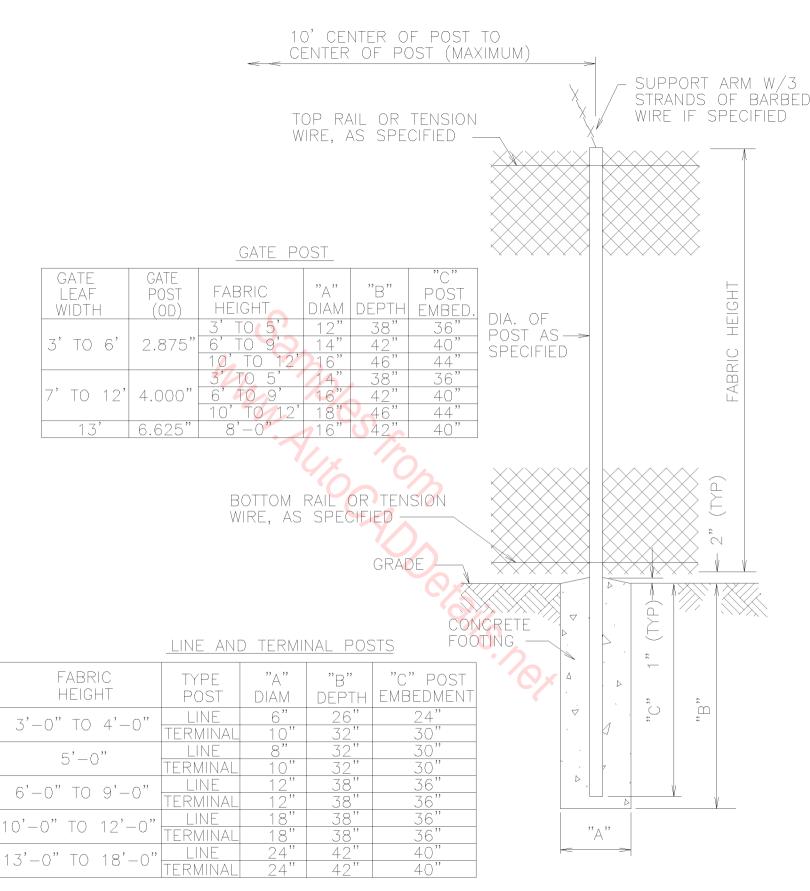
0.2B - 1002



ACCESSIBILITY SIGN

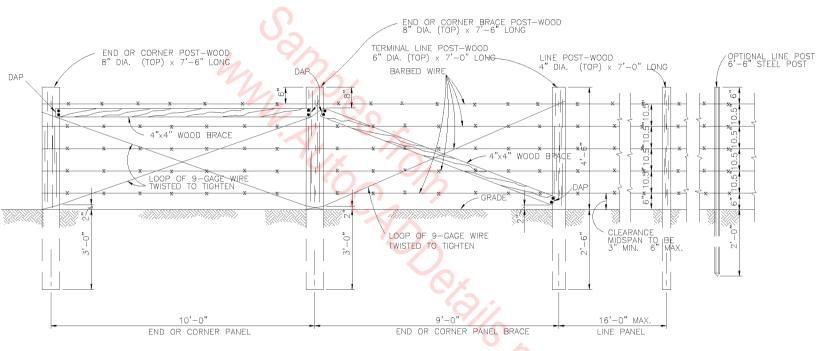
1/2" = 1'-0"

02B - 1003

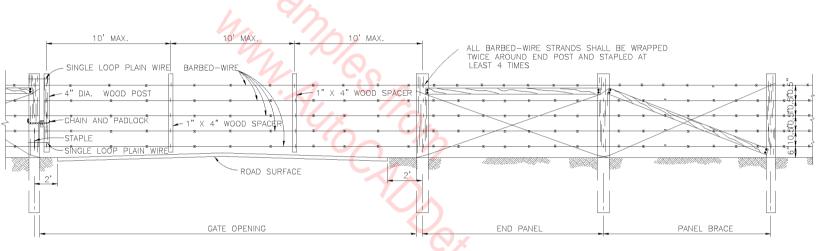


NOTE: TERMINAL POSTS INCLUDE END, CORNER, AND PULL POSTS

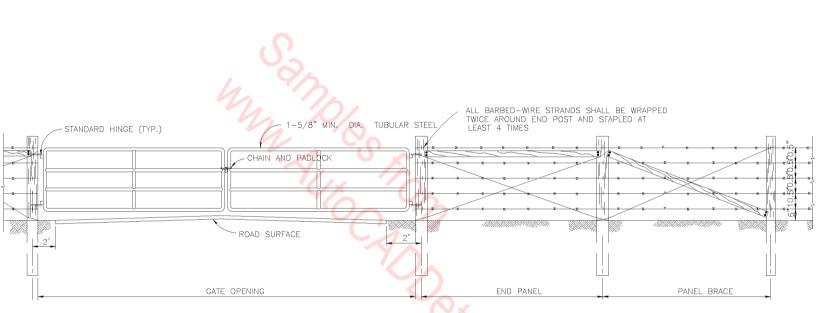
CHAIN LINK FENCE FOUNDATION



TYPICAL LAYOUT-5 STRAND BARBED-WIRE FENCE

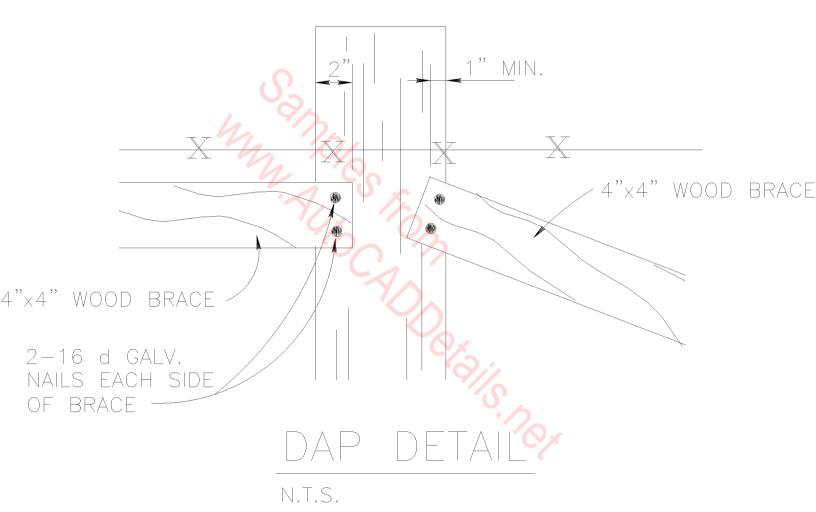


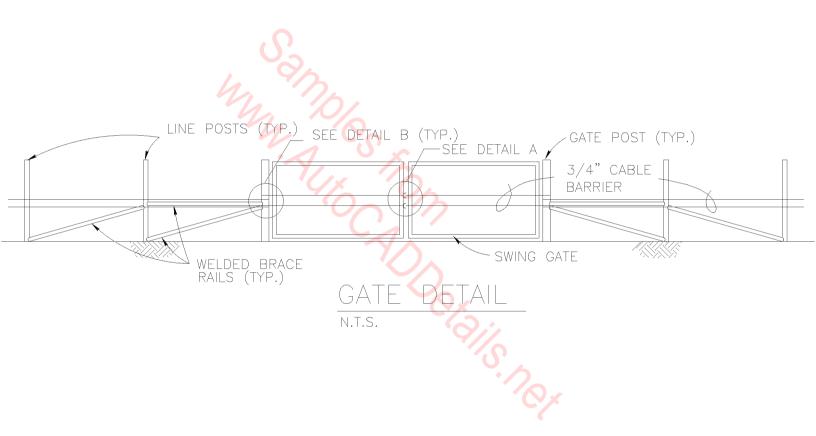
TYPICAL BARBED-WIRE DROP GATE DETAIL

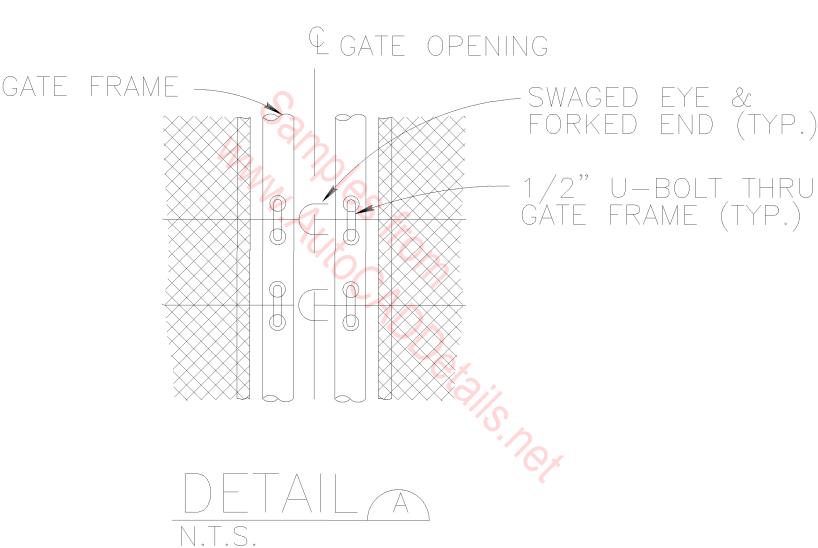


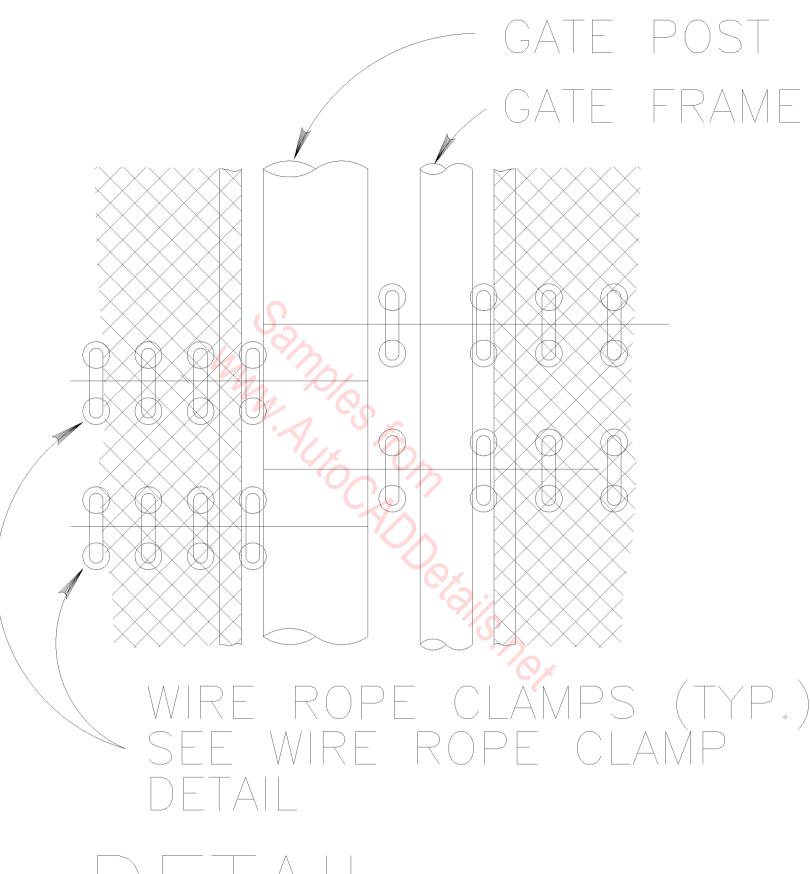
TYPICAL PANEL GATE DETAIL

N.T.S.

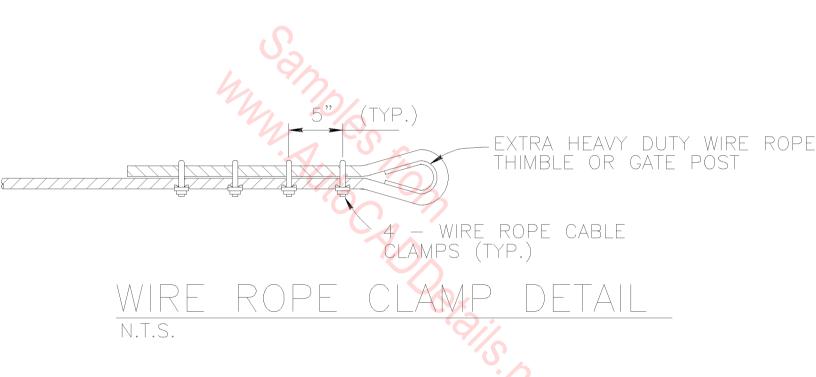


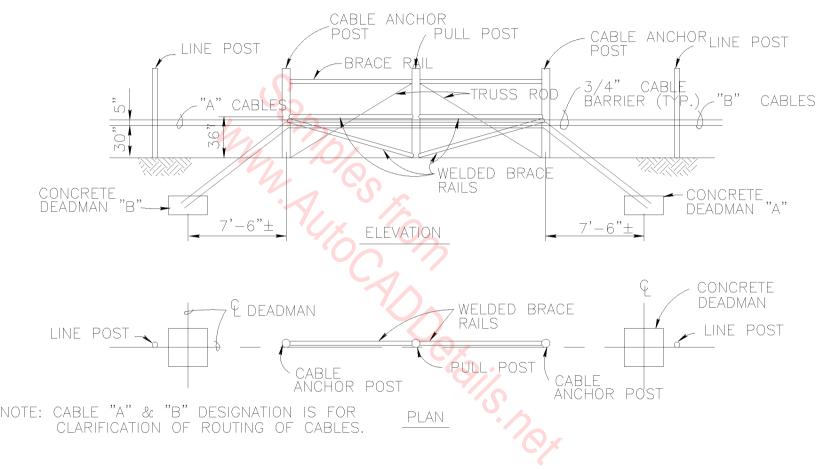






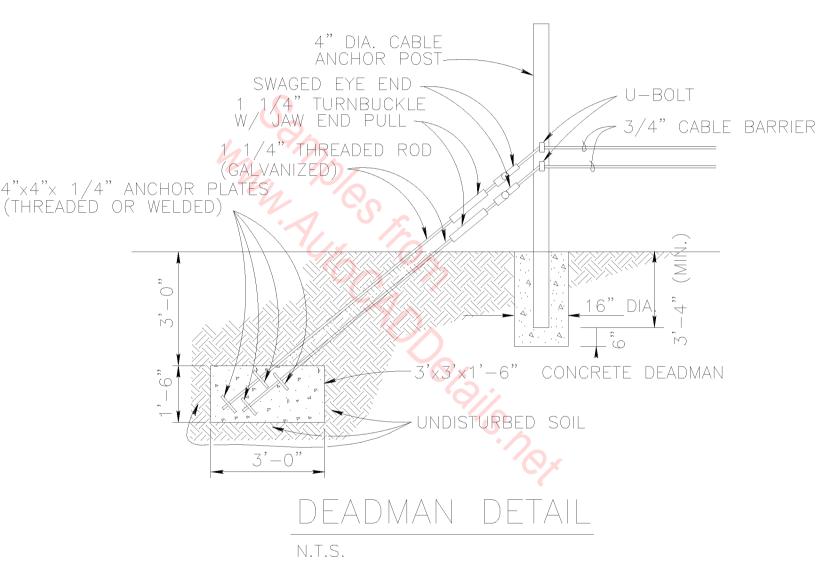
DETAIL B N.T.S.

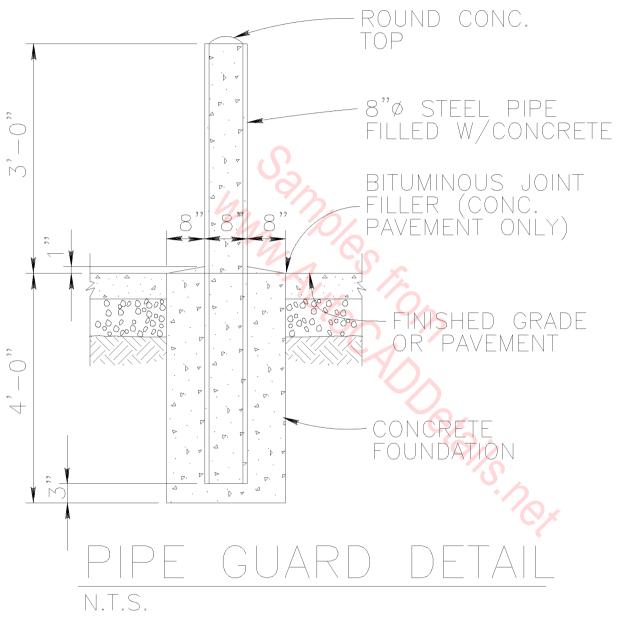




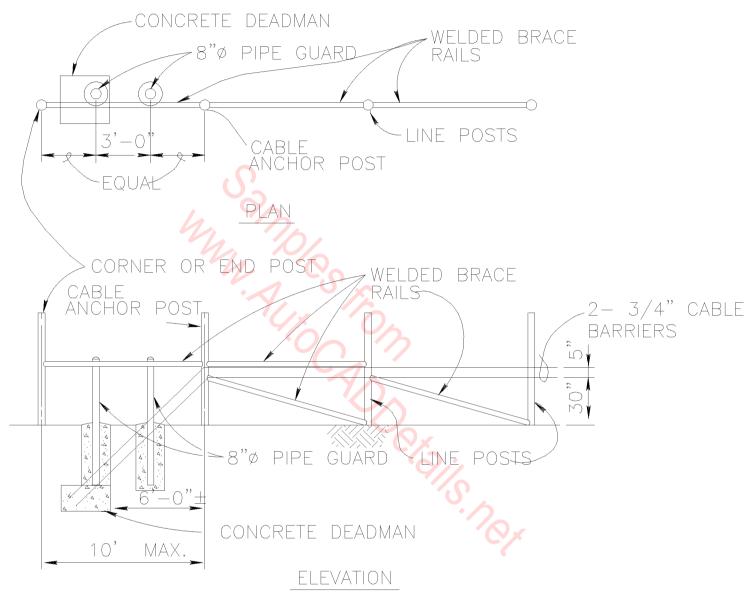
BRACE PANEL W/DEADMEN DETAIL

N.T.S.



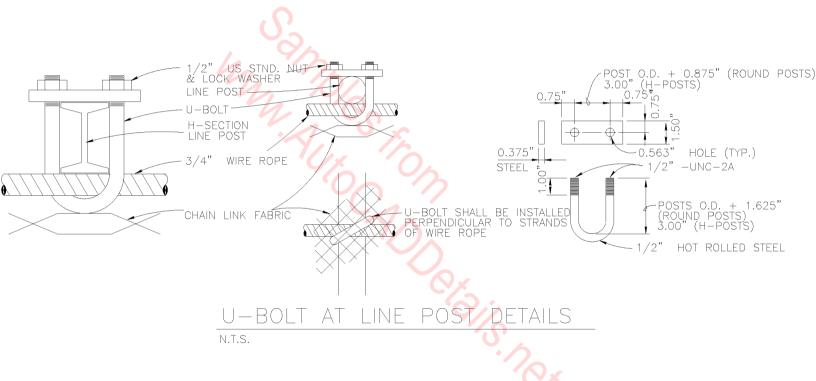


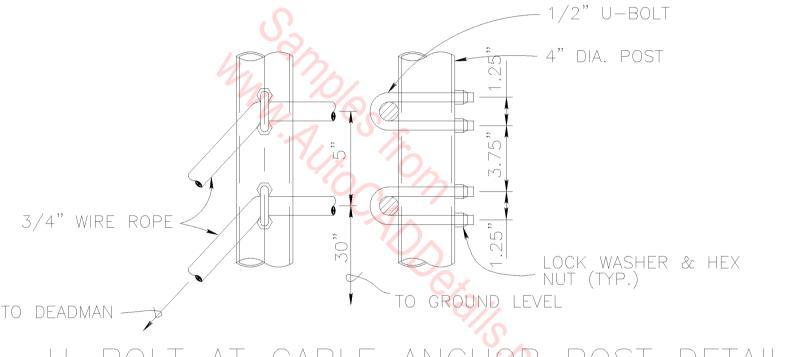
NOTE: STEEL PIPE SHALL BE GALVANIZED (2.0 OZ. ZINC/SQ. FT.) & HAVE A MINIMUM WALL THICKNESS OF 0.322 INCHES.



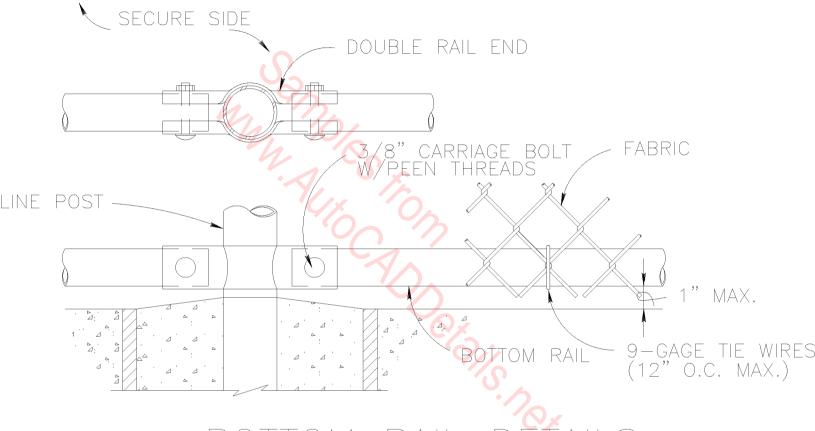
NOTE: PIPE GUARD FOUNDATION AND CONCRETE DEADMAN MAY BE PLACED AS ONE CONCRETE FOUNDATION.

## CORNER OR END DETAIL WITH DEADMAN

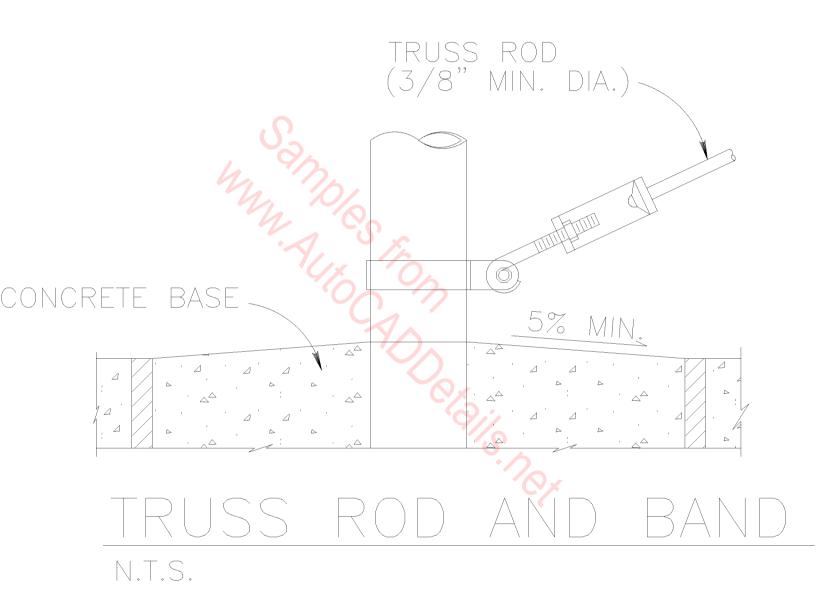


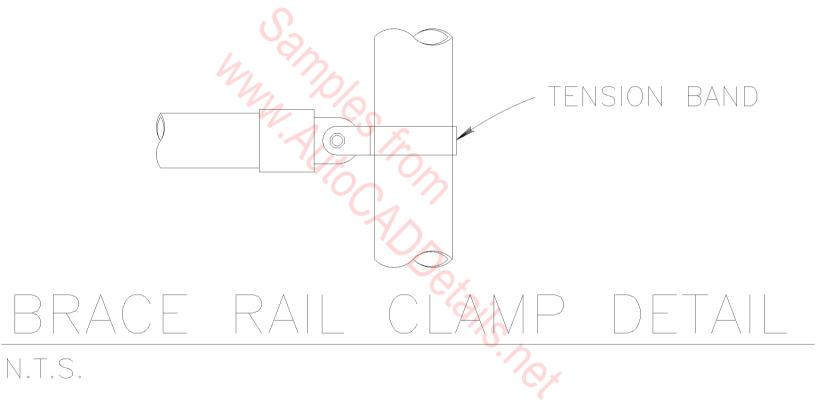


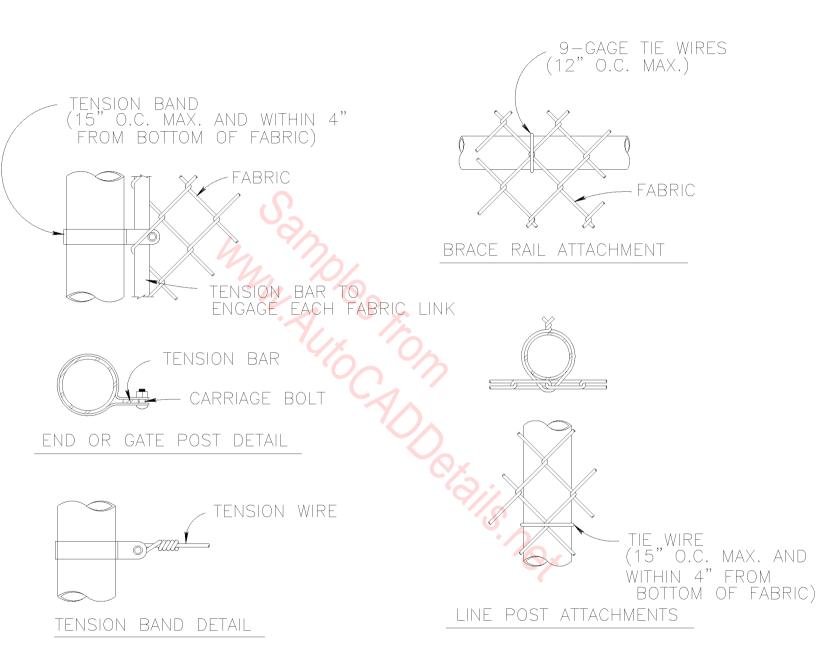
U-BOLT AT CABLE ANCHOR POST DETAIL



BOTTOM RAIL DETAILS

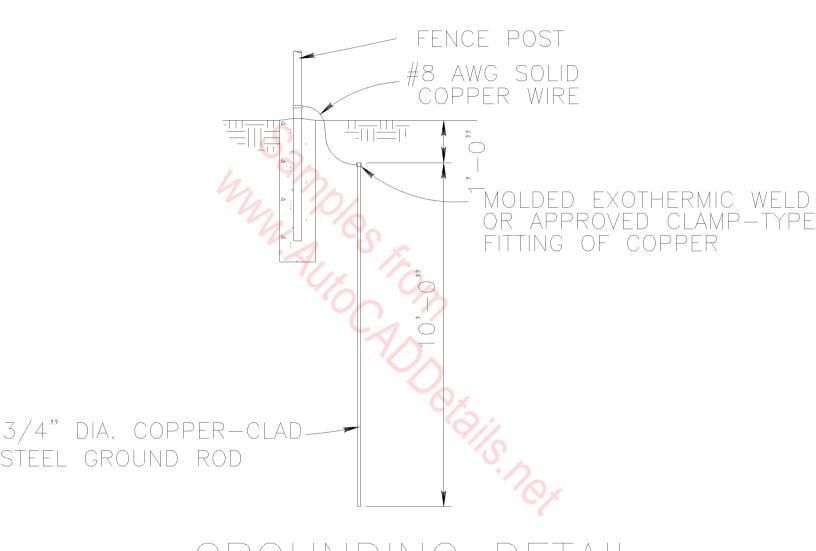


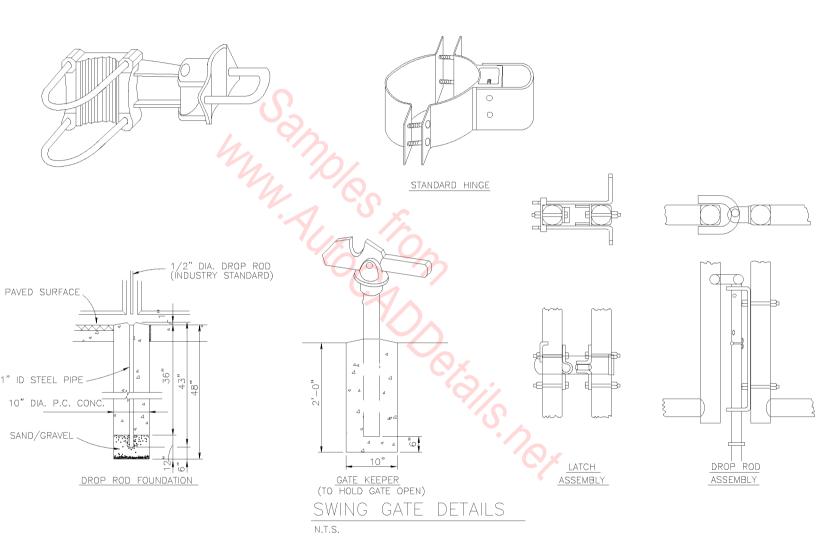


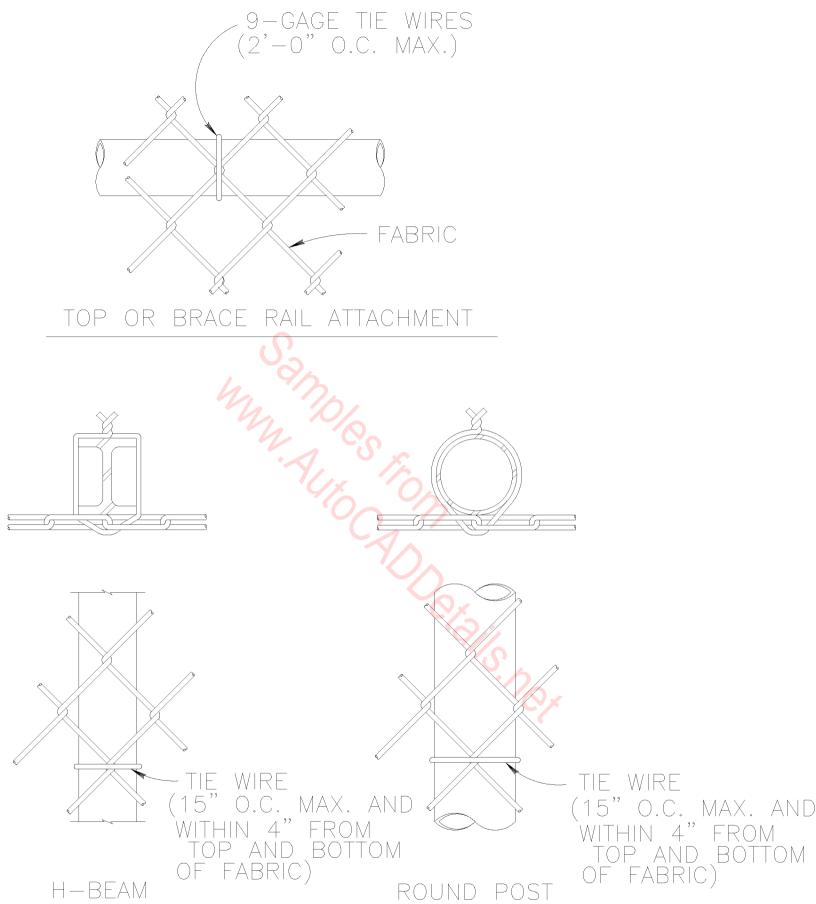


FASTENING DETAILS

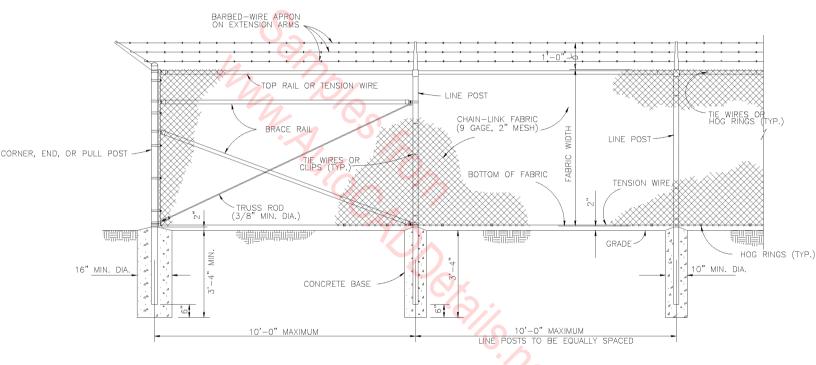
N.T.S.



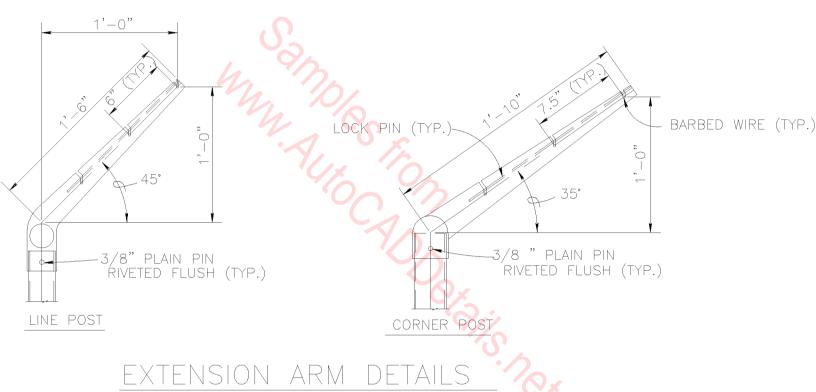


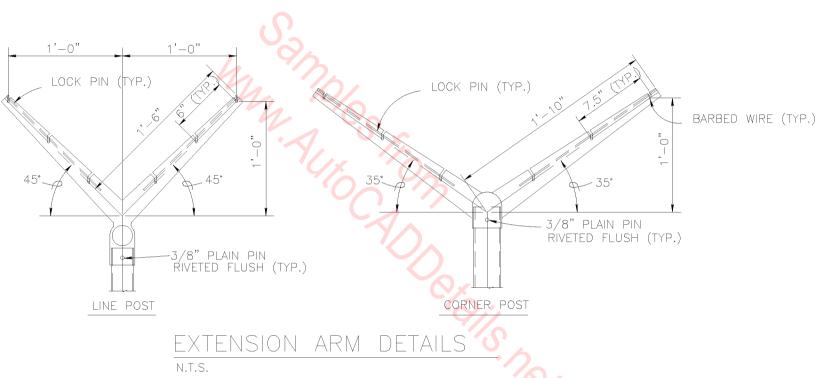


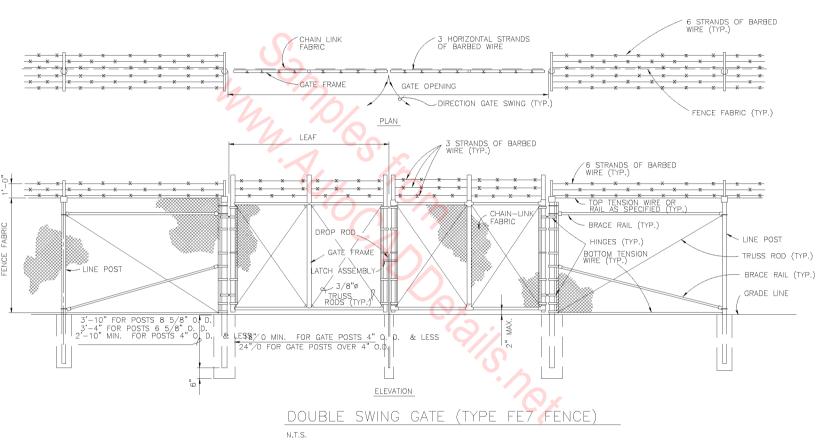
## LINE POST ATTACHMENTS

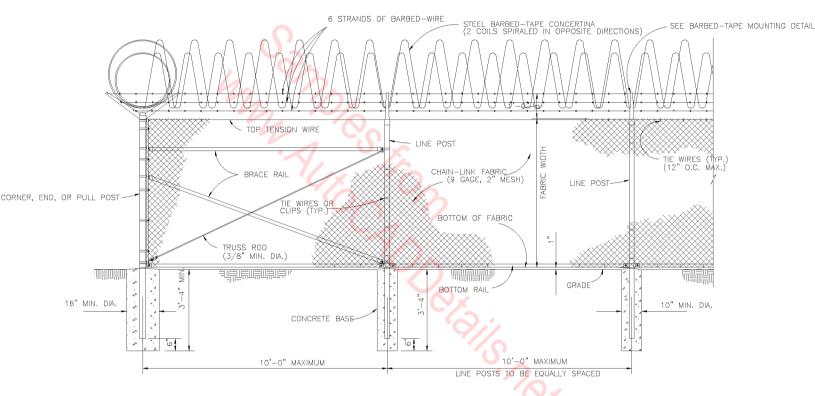


CHAIN-LINK SECURITY FENCE DETAIL
N.T.S.



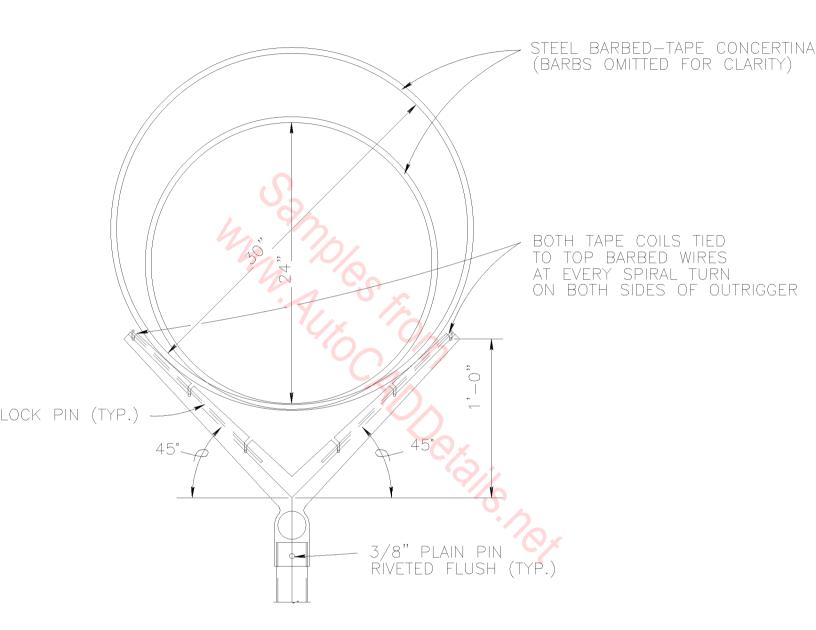




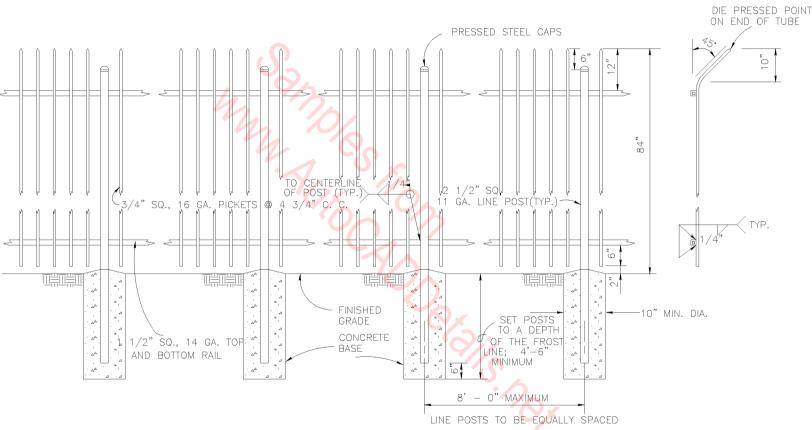


CHAIN-LINK SECURITY FENCE DETAIL

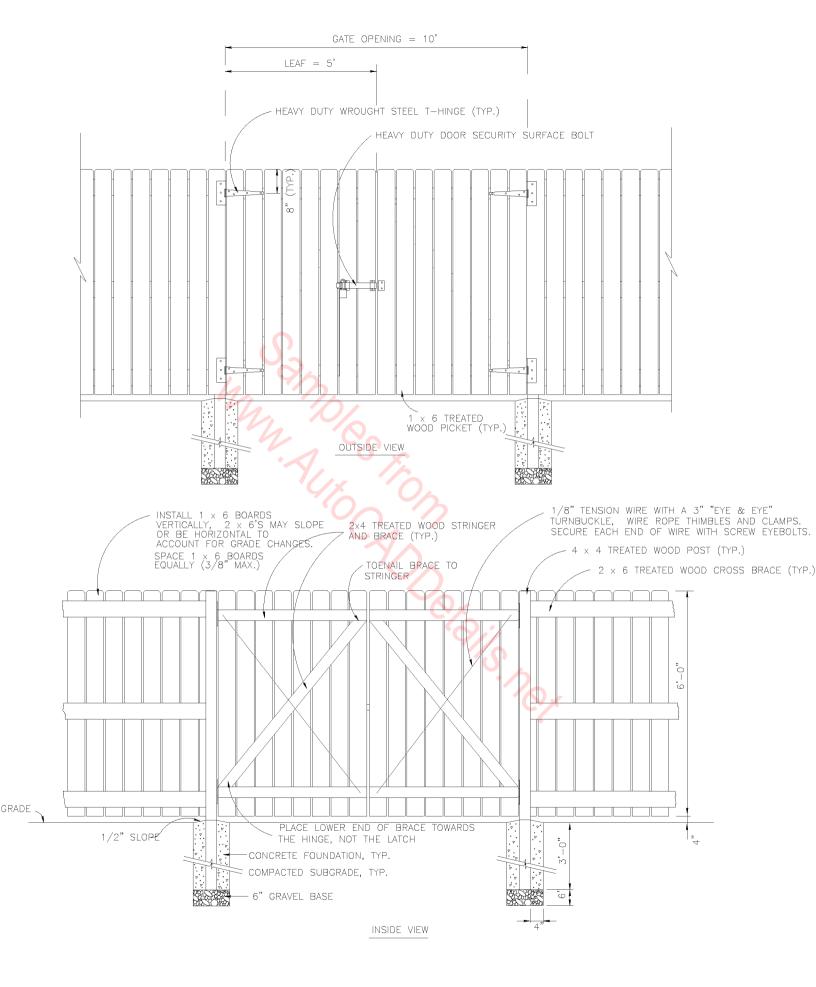
N.T.S.

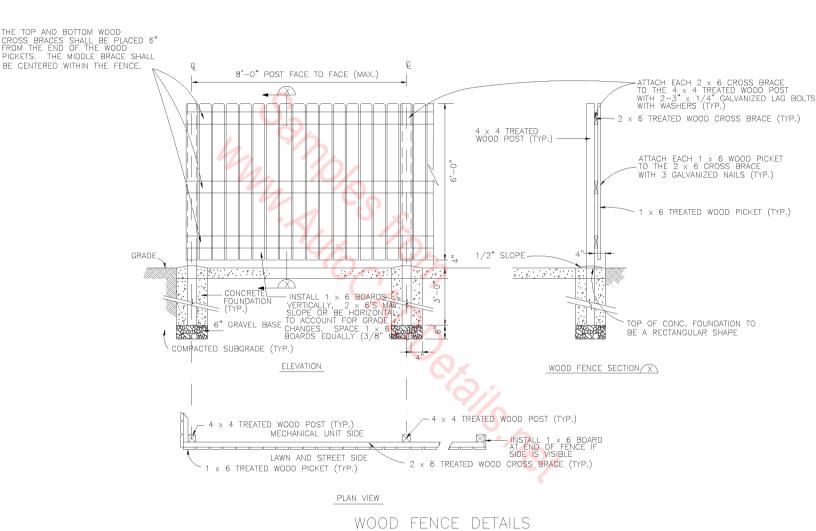


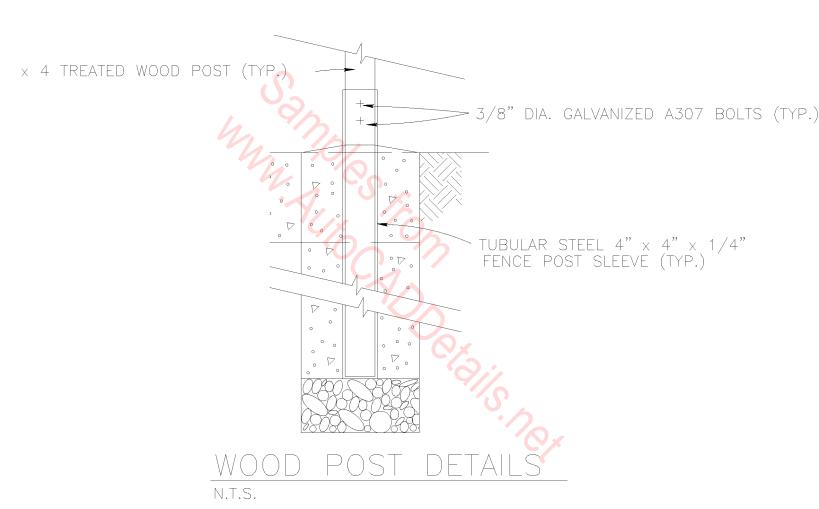
BARBED-TAPE MOUNTING DETAIL

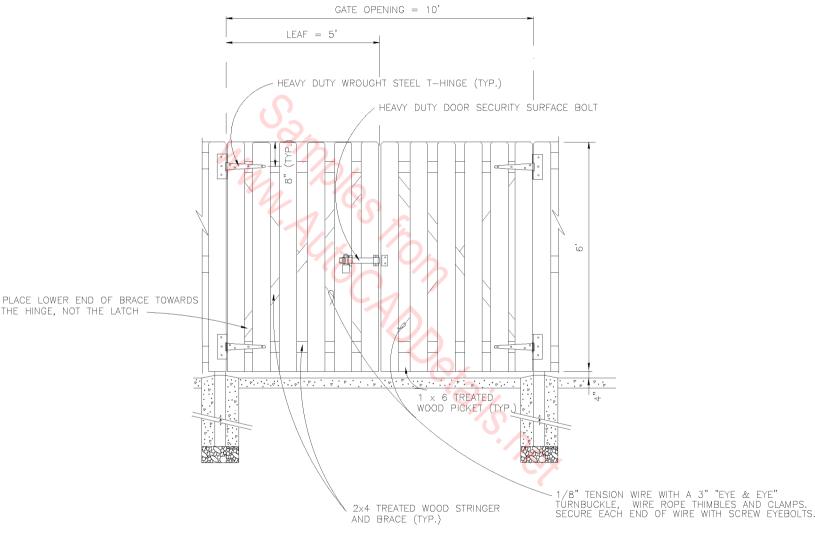


ORNAMENTAL IRON FENCE DETAIL
N.T.S.

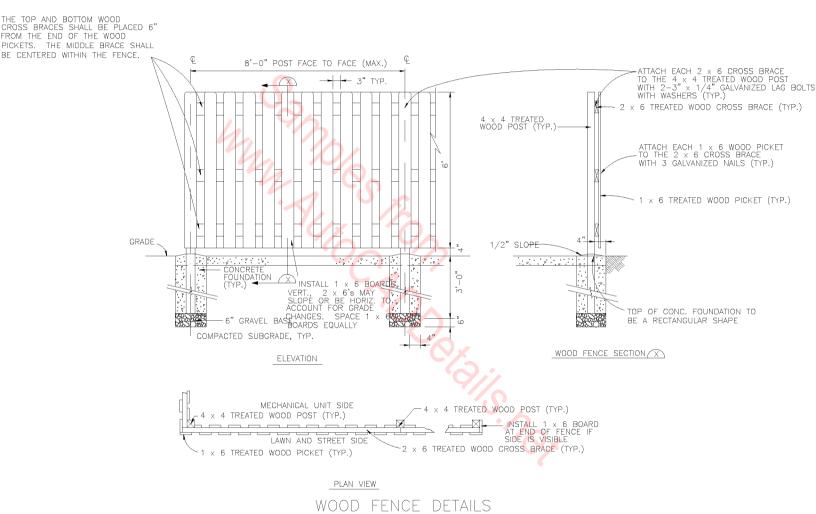


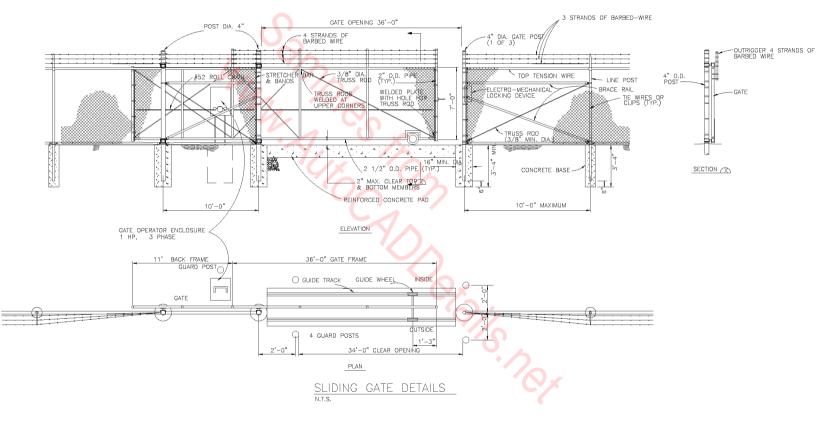


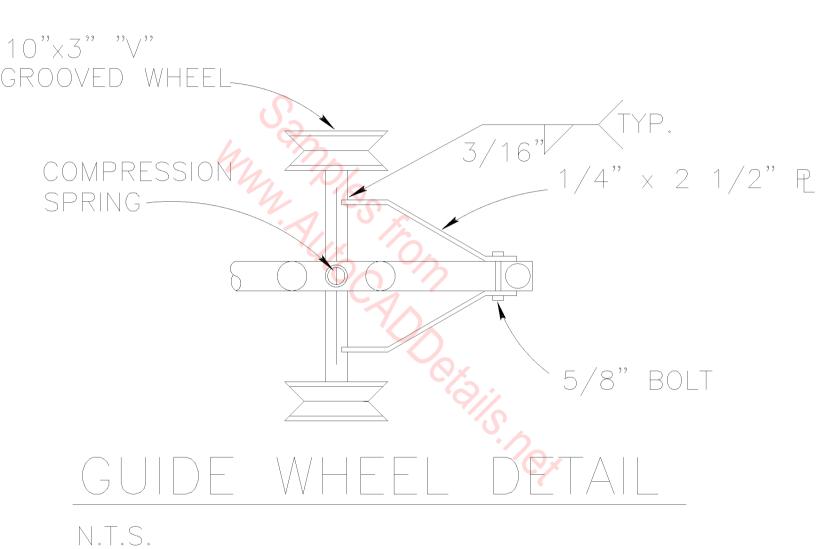


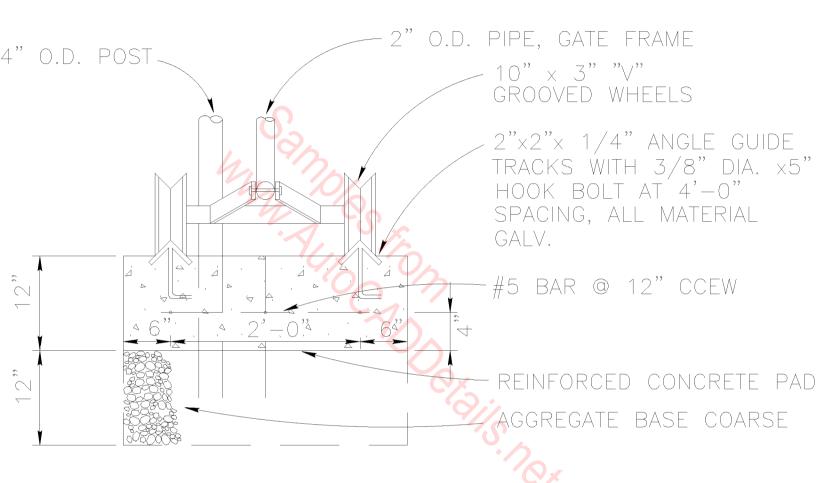


WOOD FENCE GATE DETAILS

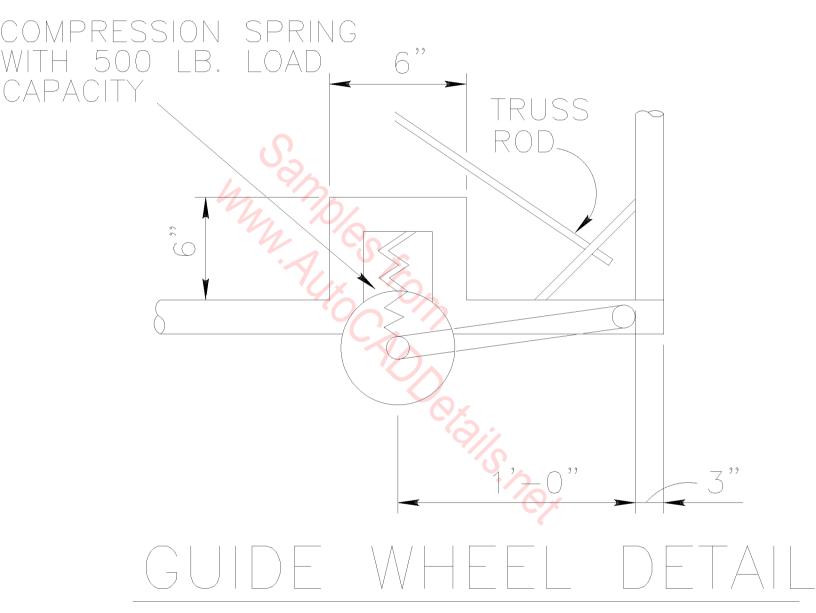


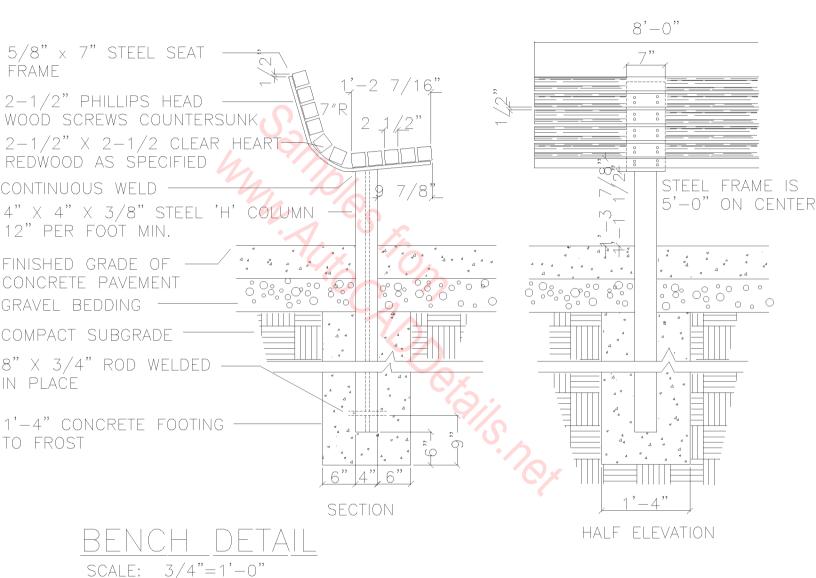


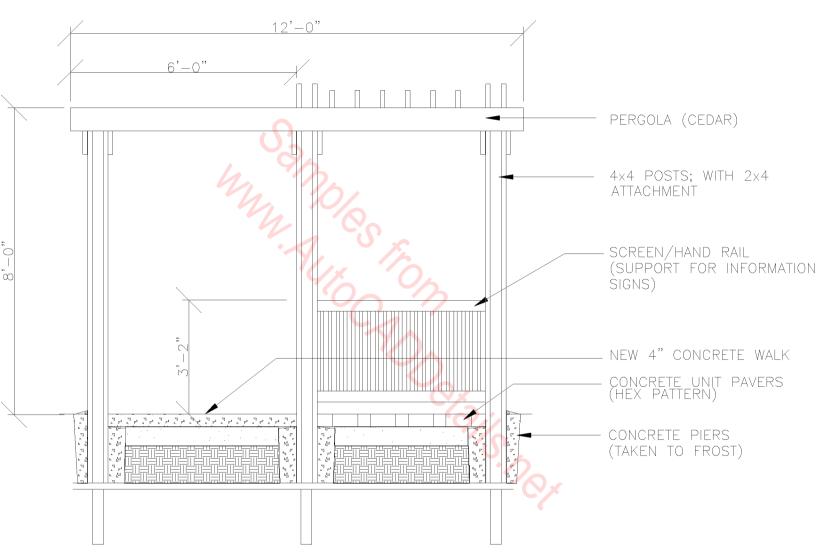




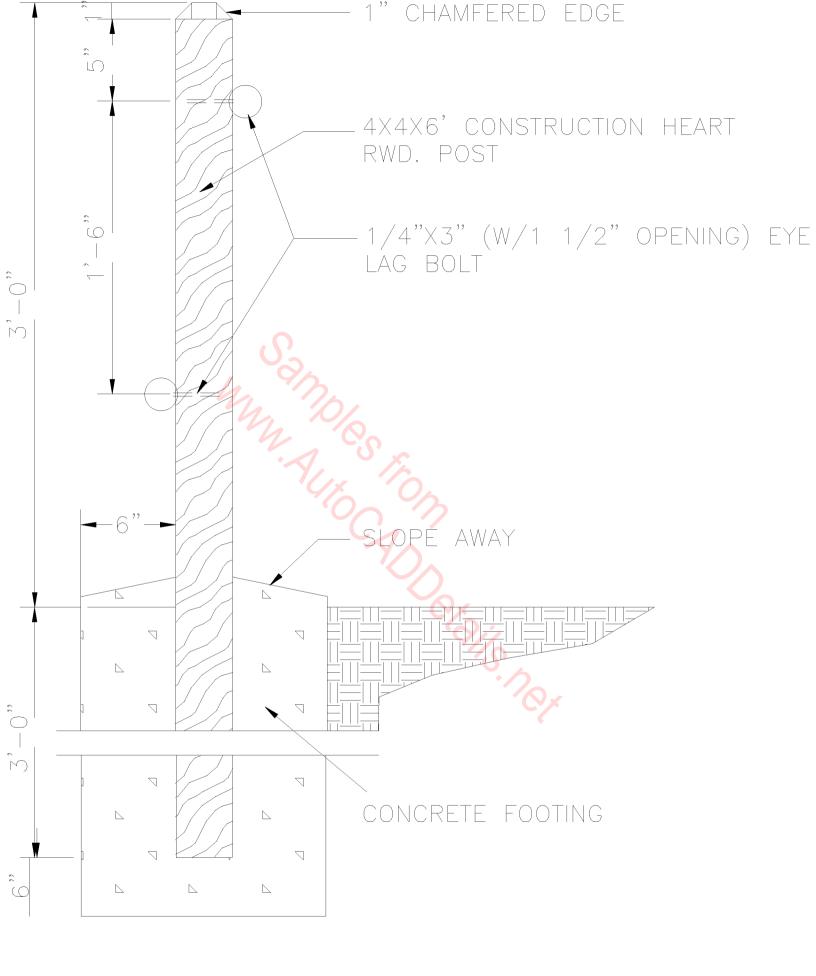
SLIDE GATE



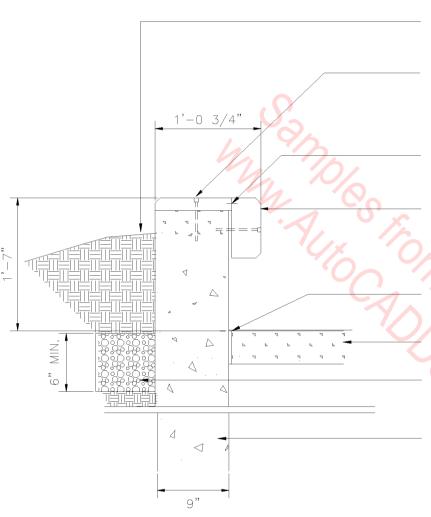




PERGOLA SECTION
SCALE: 1/2" = 1'-0"



 $\frac{PE - POS}{SCALE: 1-1/2" = 1'-0"}$ 



 $\frac{\text{SEATWALL}}{\text{SCALE:}} \frac{\text{SECTION}}{1-1/2"} = 1'-0"$ 

MULCHED PLANTING BED, 1" MIN. FROM TOP OF CONCRETE WALL.

2X10 NOM. CONSTRUCTION HEART REDWOOD WITH 1" CHAMFERED EDGE.
ANCHOR TO WALL WITH 5/8"x6" GAL.
COUNTERSINK AT 3'-0" O.C. AND COVER
WITH REDWOOD PLUG (BARK SIDE UP)

GAL. CORRUGATED FASTENER

4x8 NOM. CONSTRUCTION HEART REDWOOD WITH 1" CHAMFERED EDGES. ANCHOR TO WALL WITH 5/8" x 8" GAL. COUNTERSINK AT 3'-0" O.C. AND COVER WITH REDWOOD PLUGS (BARKSIDE OUT)

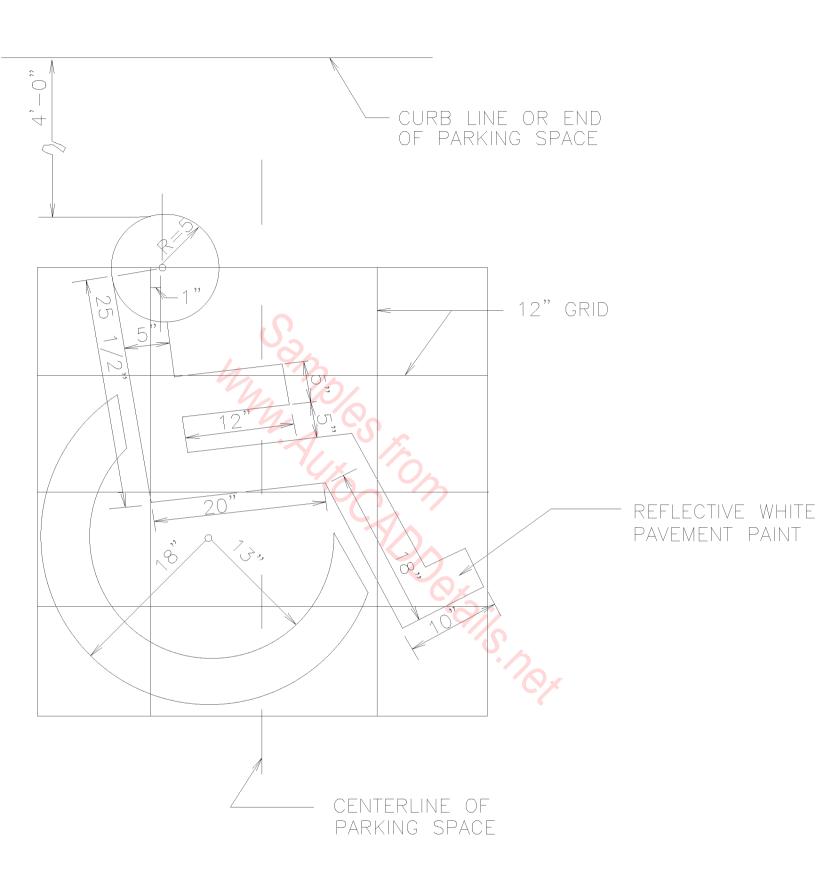
1/2" x 4" "HORN" STRIP JOINT EXPAN. JOINT (OR EQUAL)
BETWEEN WALL AND EXISTING CONCRETE
SLAB (STRIP CAP OFF AND APPLY SEALANT)

EXISTING CONCRETE CIRCUMAN

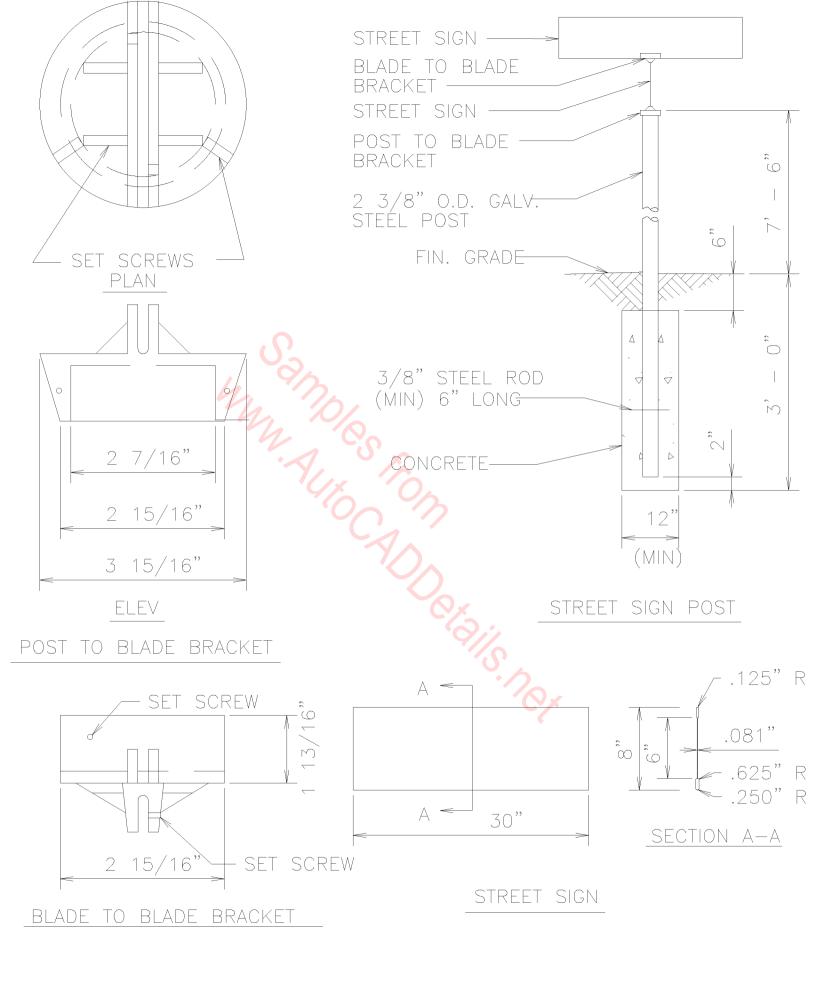
EXISTING CONCRETE SIDEWALK

DRAINAGE (LIGHTWEIGHT CRUSHED STONE)

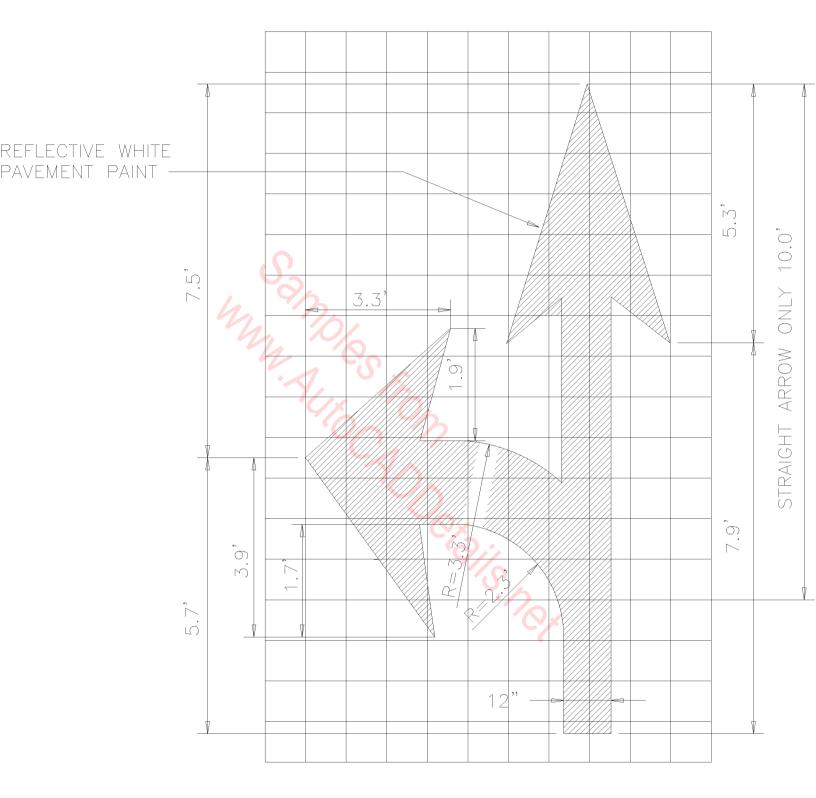
REINF. CONCRETE FOOTING, DEPTH VARIES WITH FROSTLINE



### HANDICAP PARKING SYMBOL

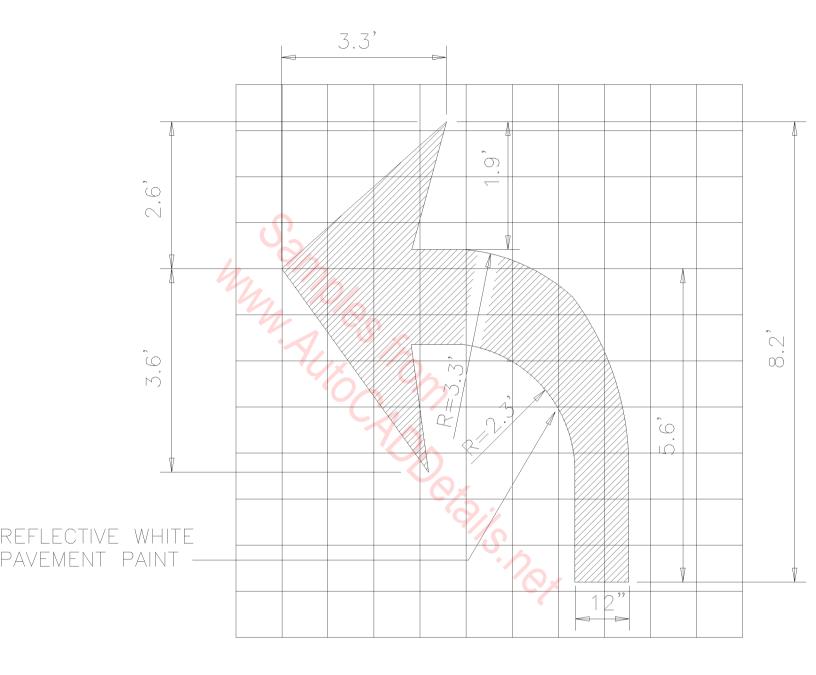


#### STREET SIGN POST

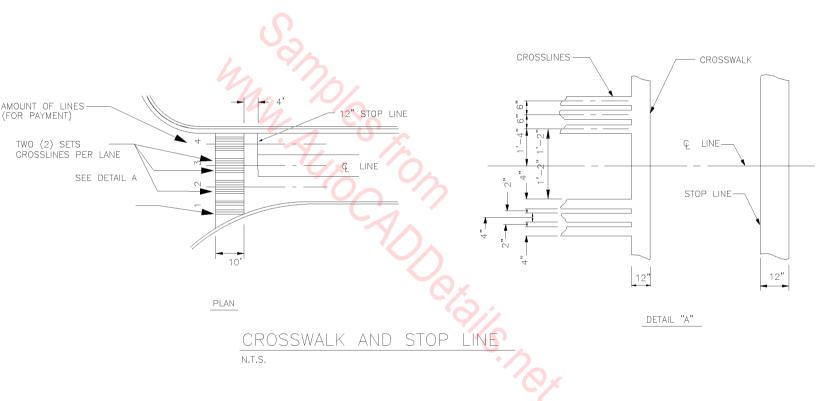


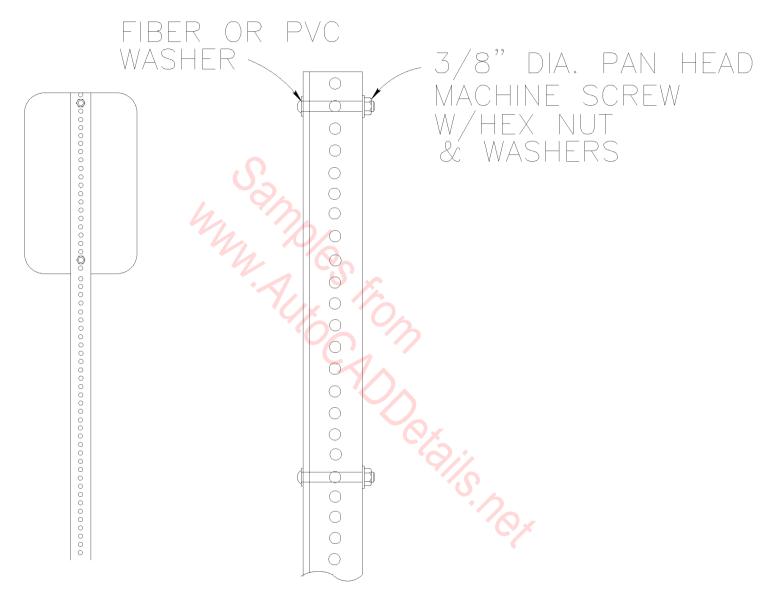
TURN & STRAIGHT ARROW

N.T.S.

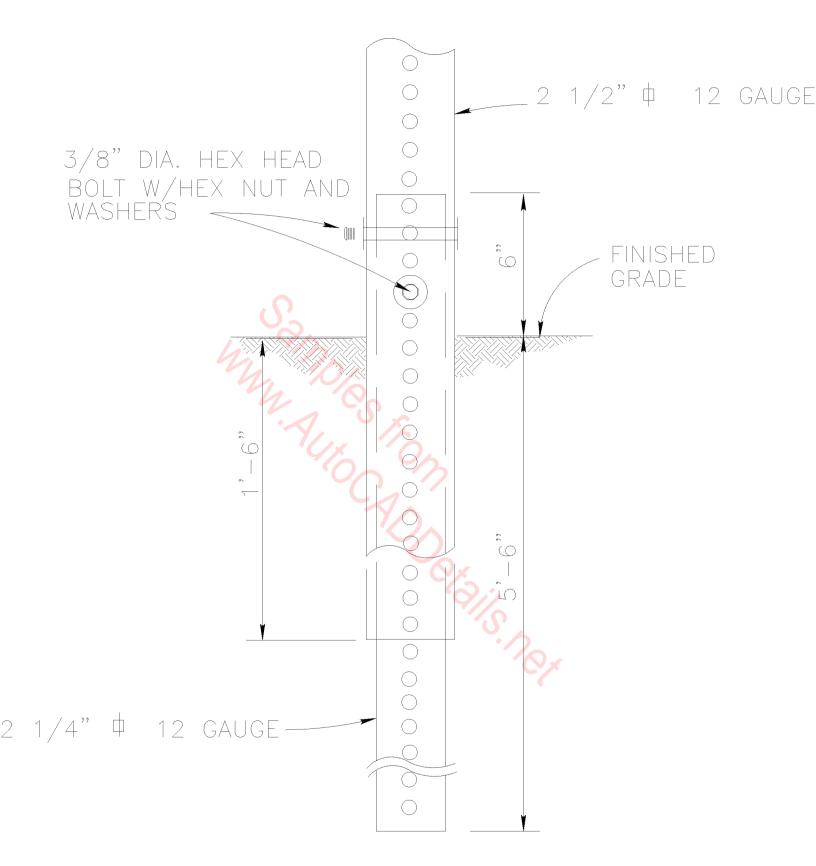


# TYPICAL TURN ARROW N.T.S.



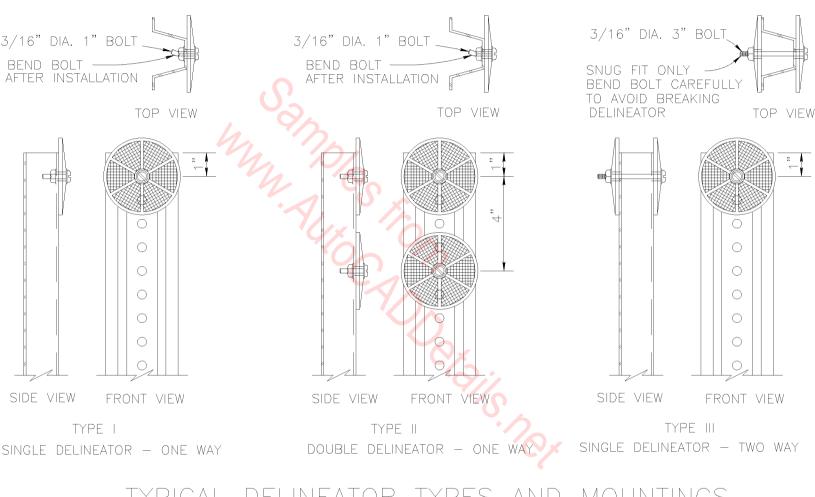


# SIGN PANEL ATTACHMENT

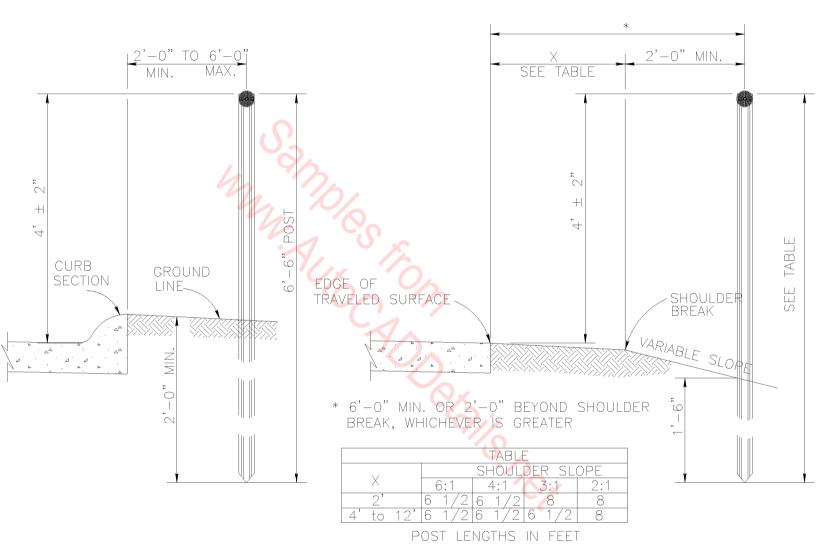


BREAK-AWAY DETAIL

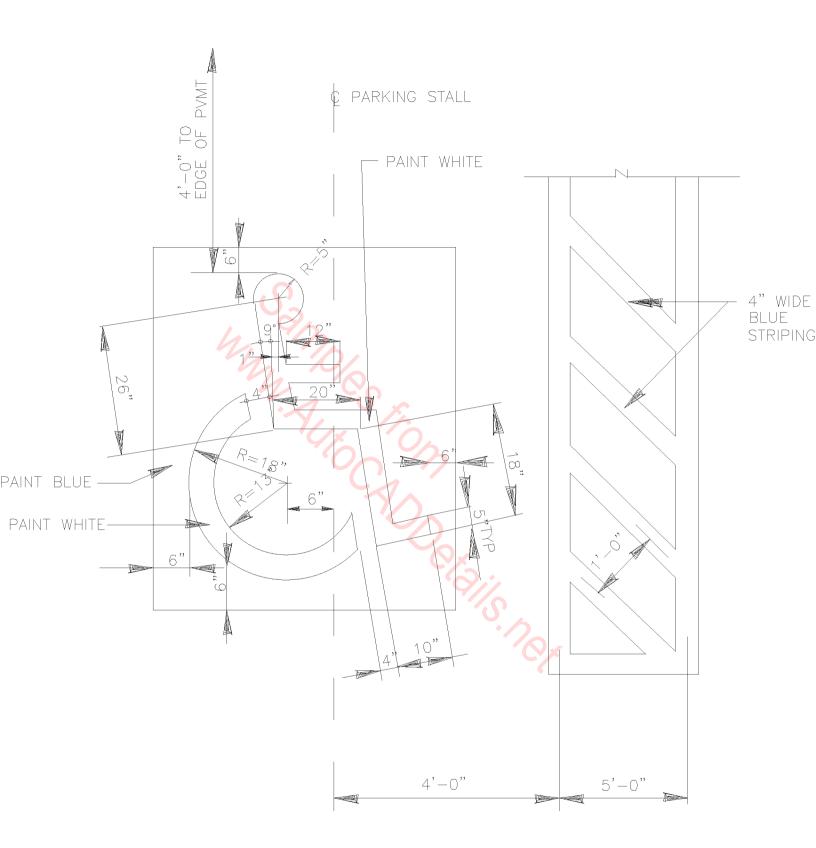
N.T.S.



TYPICAL DELINEATOR TYPES AND MOUNTINGS

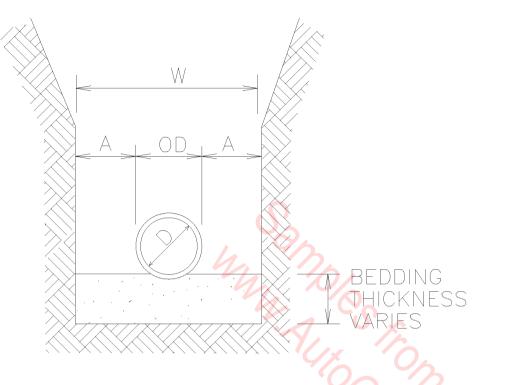


DELINEATOR POST LOCATIONS



HANDICAPPED PARKING DETAIL

N.T.S.

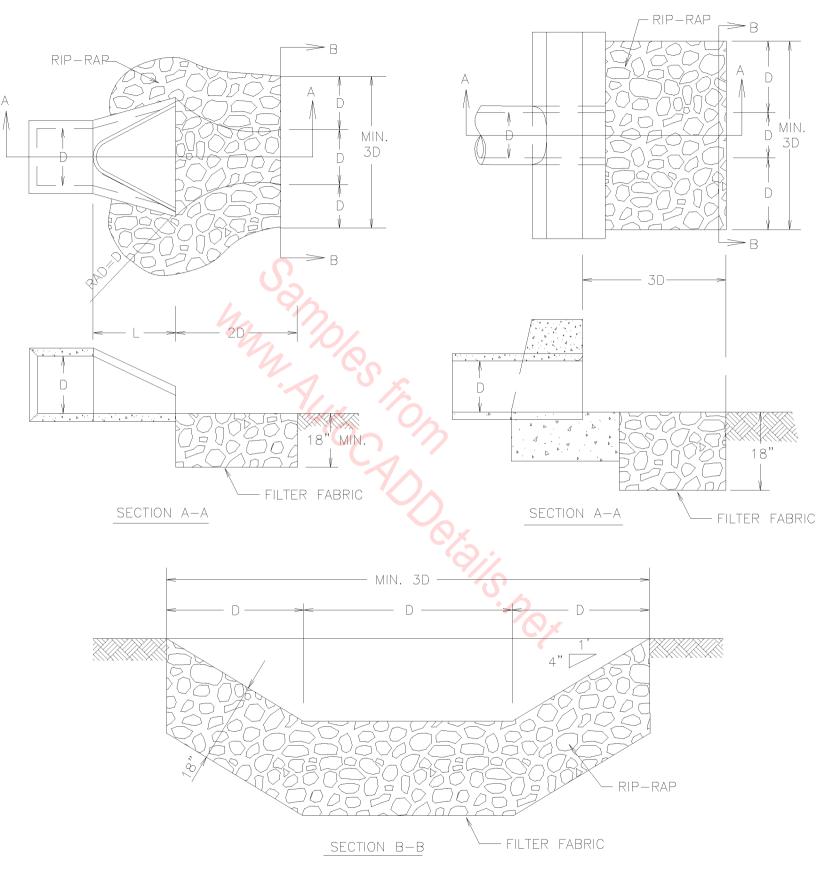


PIPE DIA	MAXIMUM "A"
6" TO 15"	8"
16" TO 21"	10"
24" TO 30"	12"
33" TO 42"	15"
48" & LARGER	18"

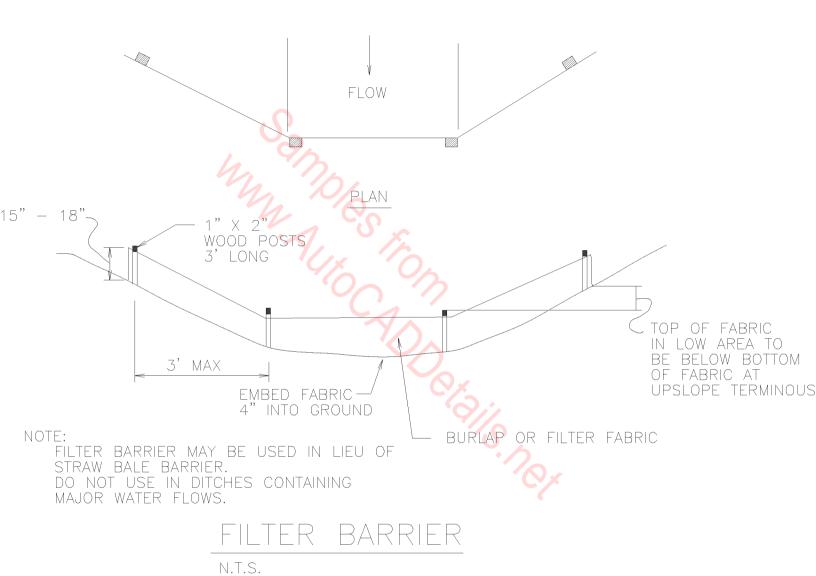
MAXIMUM TRENCH WIDTH "W' TAKEN AT TOP OF PIPE

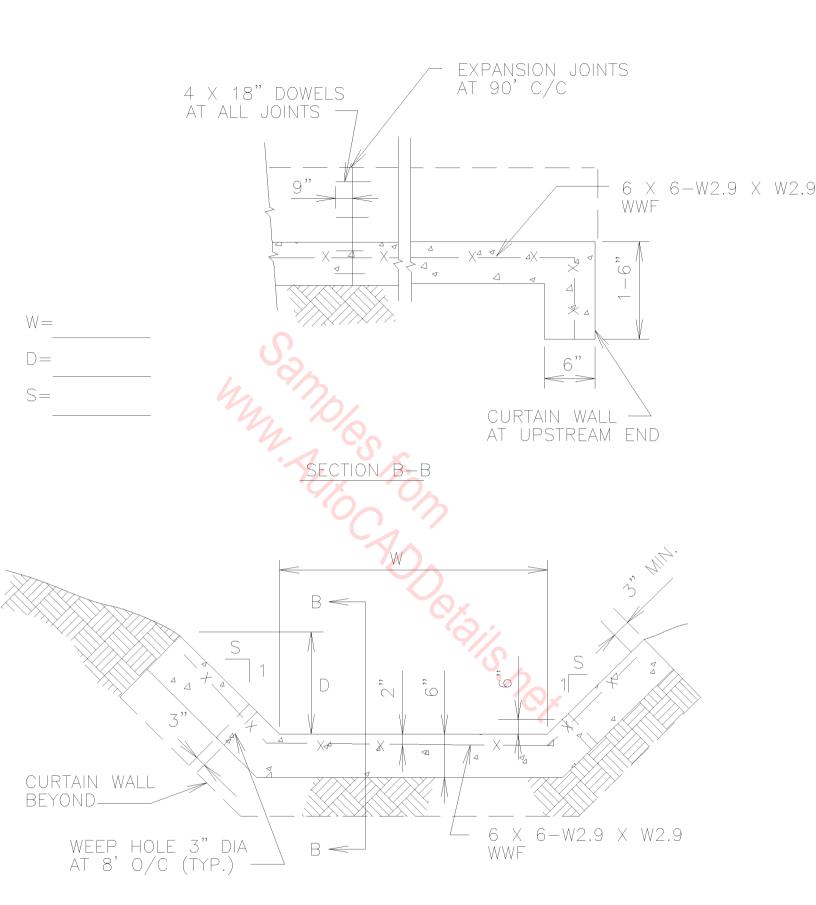
NOTE: PROVIDE BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.

### STANDARD PIPE TRENCH WIDTH

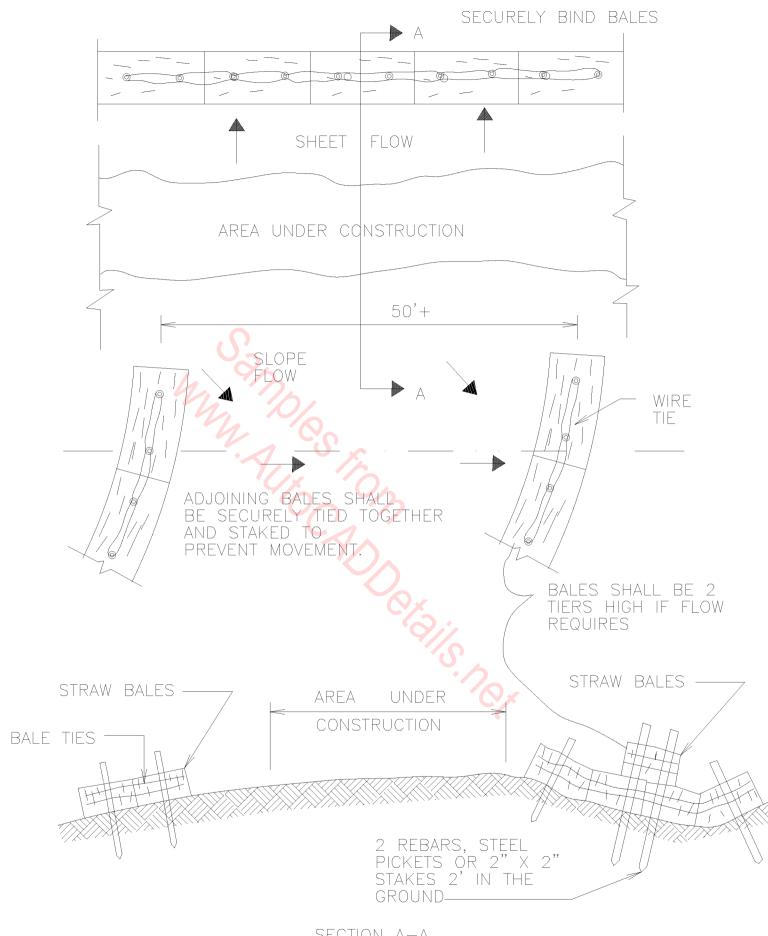


DISCHARGE AREA EROSION CONTROL DETAIL
N.T.S.



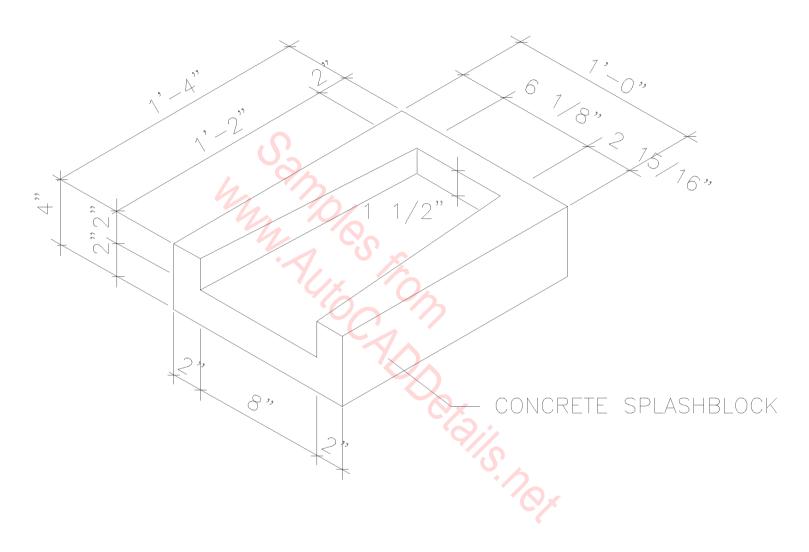


PAVED DITCH

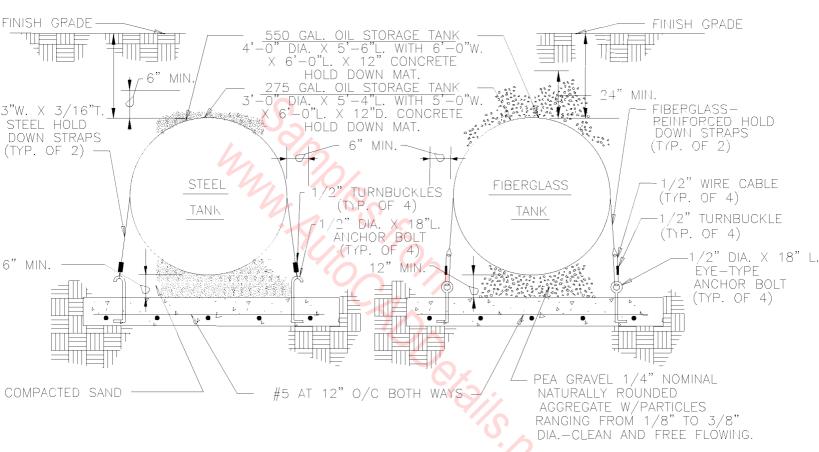


SECTION A-A

STRAW BALE SEDIMENT BARRIER



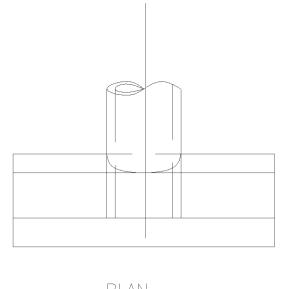
# CONCRETE SPLASH BLOCK DETAIL N.T.S.



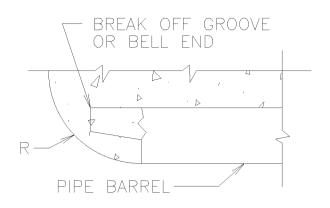
## UNDERGROUND FUEL OIL TANK ANTI-FLOTATION PAD & ANCHORAGE DETAIL

N.T.S.

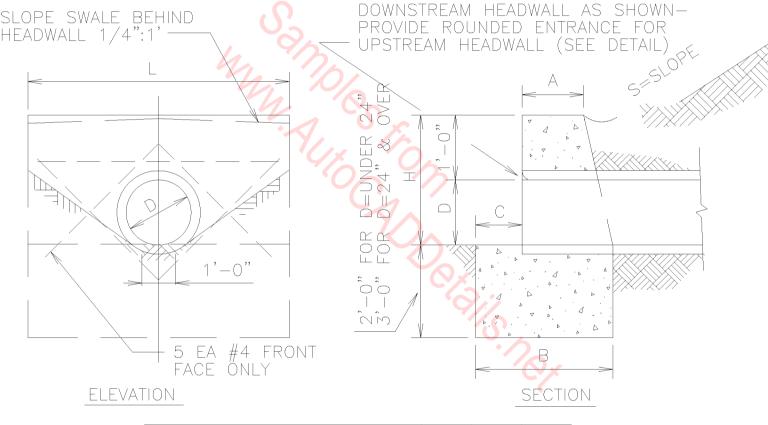
(TYPICAL FOR 275 & 550 GAL. STORAGE TANKS WHERE EXISTING CONCRETE PADS ARE FOUND.)



PLAN

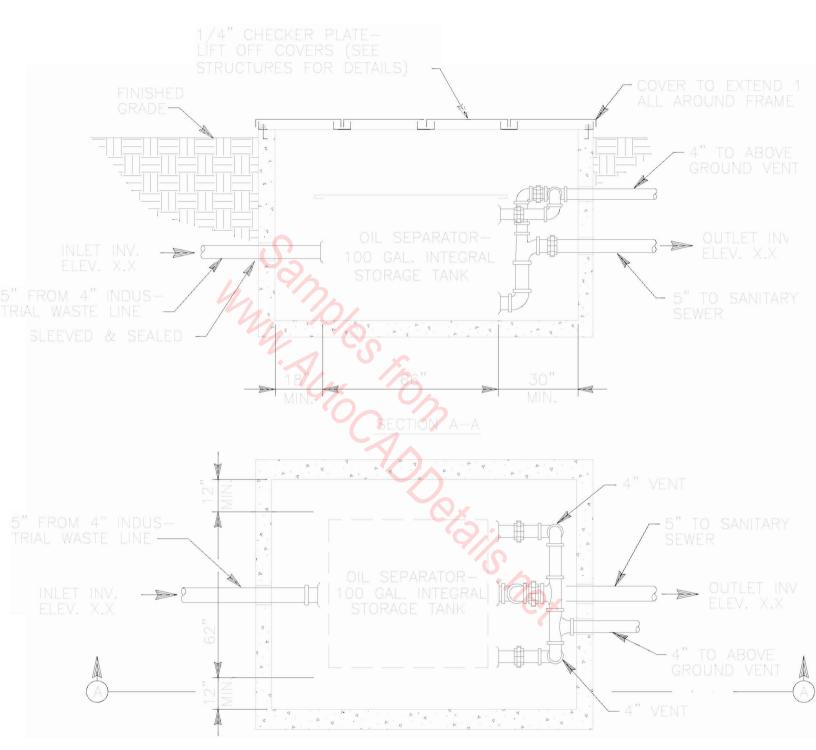


ROUNDED ENTRANCE (UPSTREAM HEADWALLS ONLY)

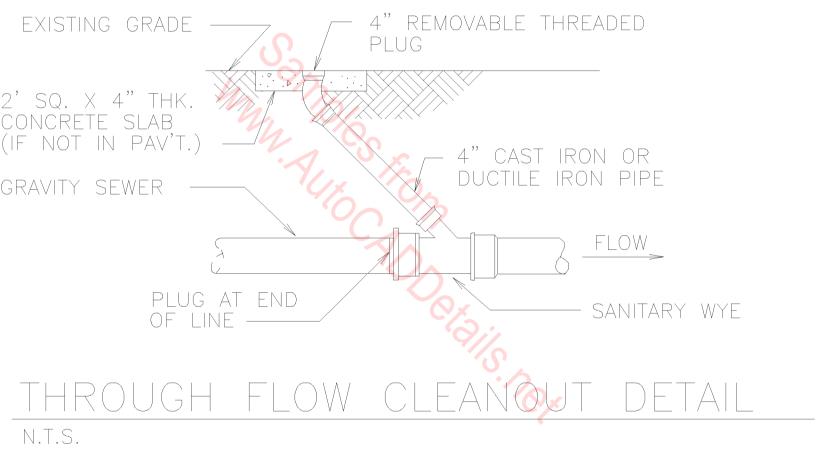


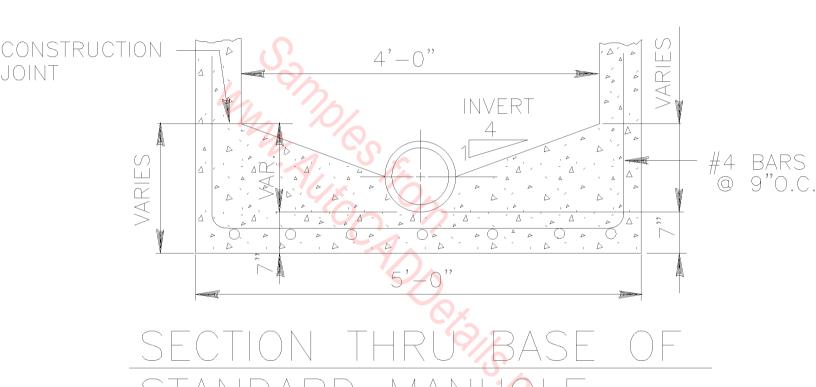
ALL SLOPES						S=1 1/2	1S=2:1	S=3:1	
D	Н	Α	В	С		R	L	L	L
8"	1'-8"		1'-0"	0	-		3'-6"		
10"	1'-10"	8"	1'-0"	0	-		4'-0"		0
12"	2'-0"	10"	1'-4"	4"			4'-6"		
15"	2'-3"		1'-4"	4"	2	1/4"			
18"	2'-6"		1'-7"	6"		3/4"			
21"	2'-9"		1'-8"	6"	3	1/8"			
24"			1'-9"	6"	3	5/8"			
27"		1'-2"	2'-0"				8'-3"		
30"			2'-1"		4		9'-0"		
36"		1'-6"		10"				13'-6"	19'-6"
42"	4'-6"	1'-6"	2'-7"	12"	6	3/8"	12'-0"	15'-6"	22'-6"

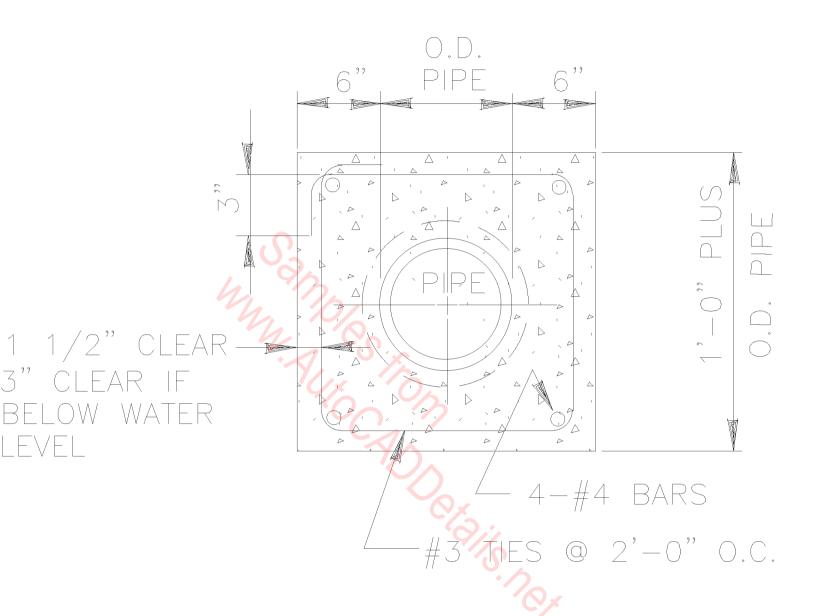
#### CONCRETE HEADWAL



PLAN VIEW

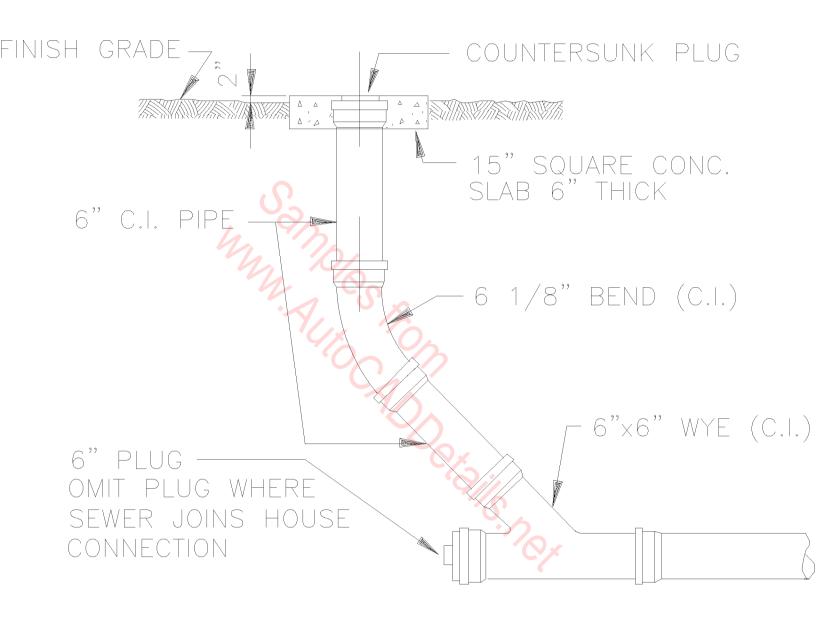






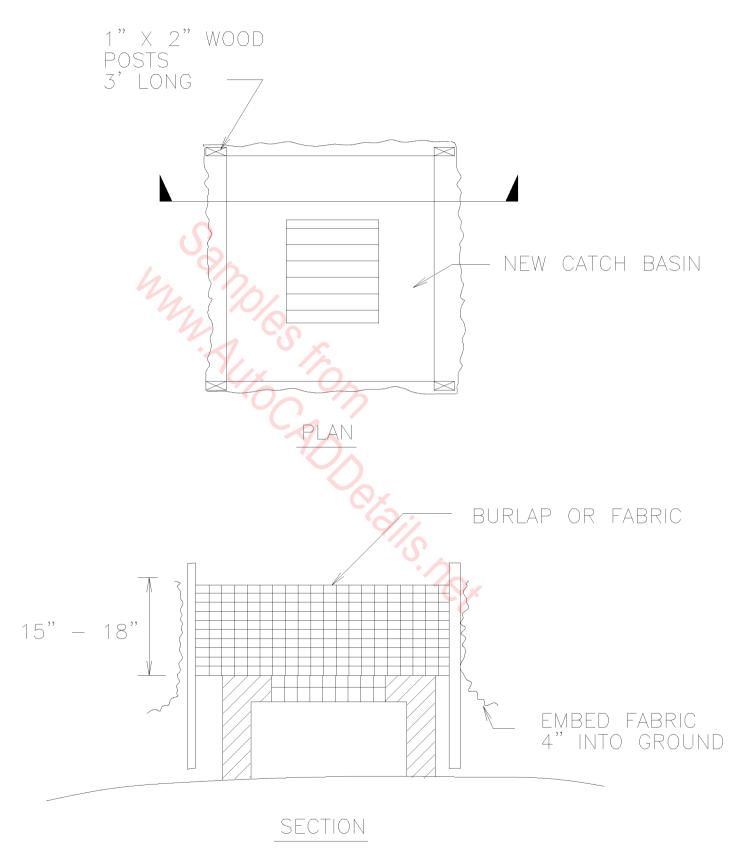
NOTE: ALL REINFORCING STEEL TO BE DEFORMED BARS AND LAPPED 14 INCHES AT SPLICES

### CONCRETE ENCASEMENT

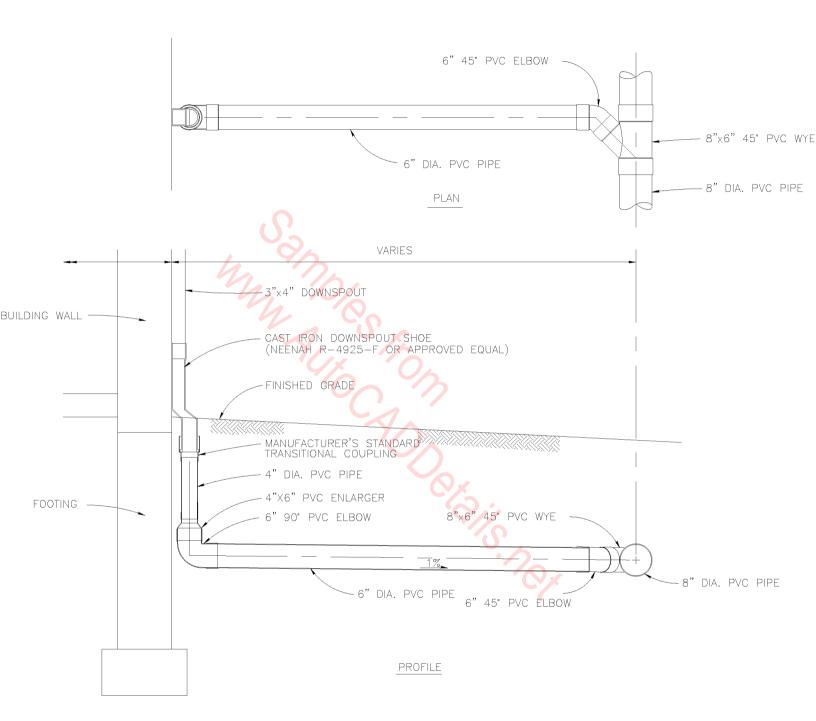


# CLEANOUT TO GRADE N.T.S.

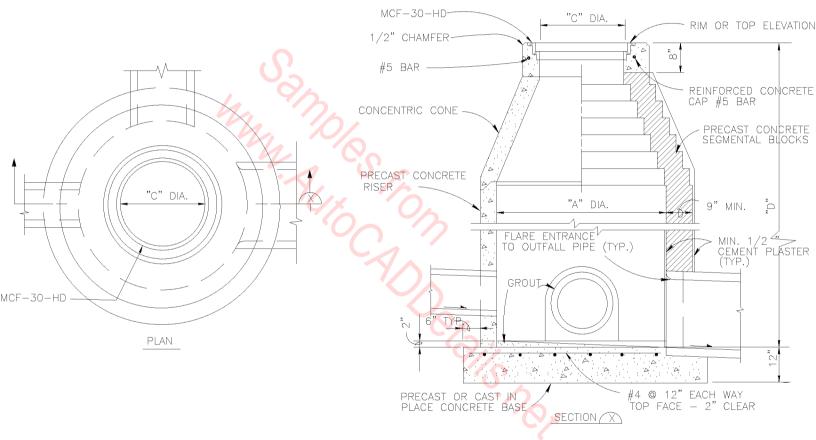
NOTE: STRAW BALES MAY BE USED IN LIEU OF FABRIC AROUND CATCH BASINS. BALES SHALL BE EMBEDDED 4" INTO GROUND AND SECURELY STAKED IN PLACE.



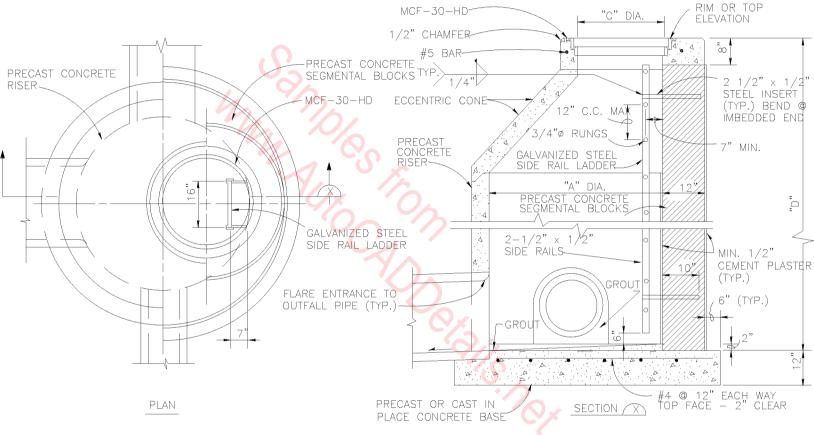
### CATCH BASIN PROTECTION



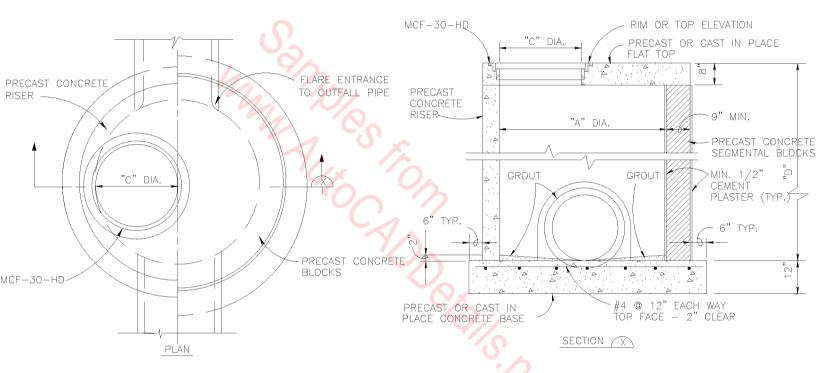
TYPICAL ROOF DRAIN DETAIL



TYPICAL CONCENTRIC MANHOLE DETAIL

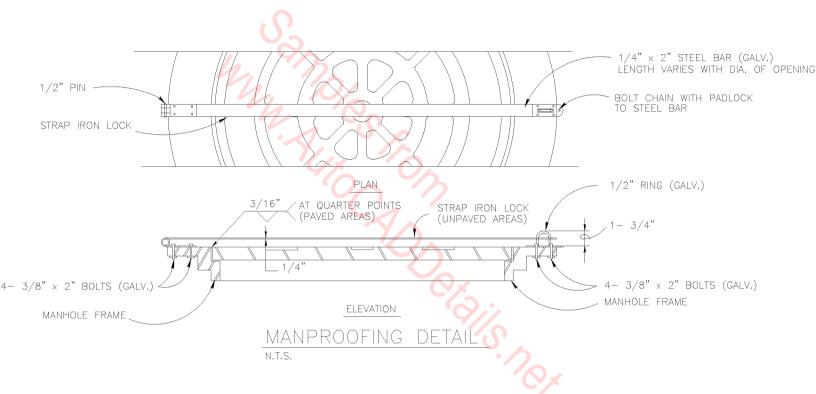


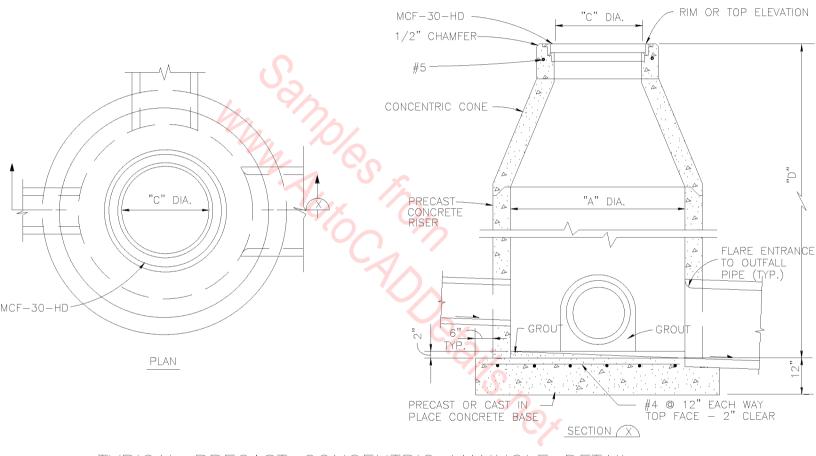
TYPICAL ECCENTRIC MANHOLE DETAIL



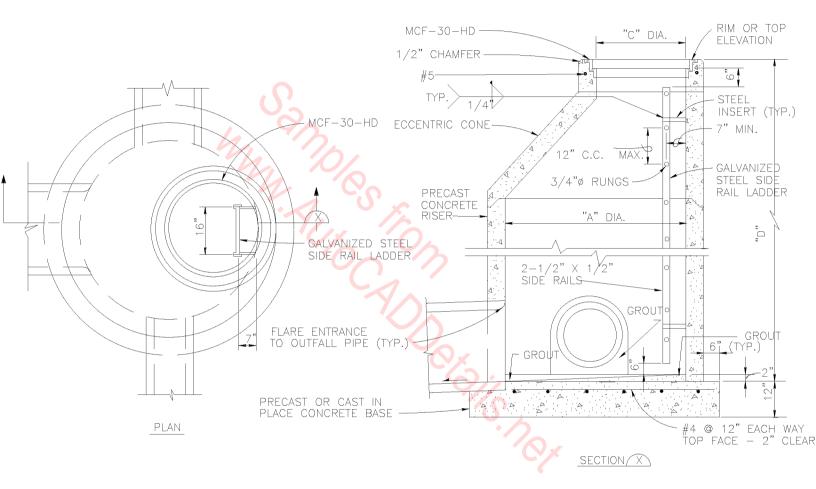
TYPICAL PRECAST SHALLOW MANHOLE DETAIL

N.T.S.

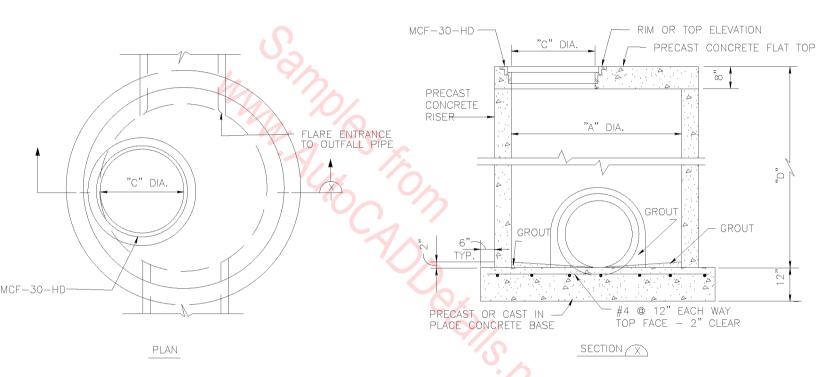




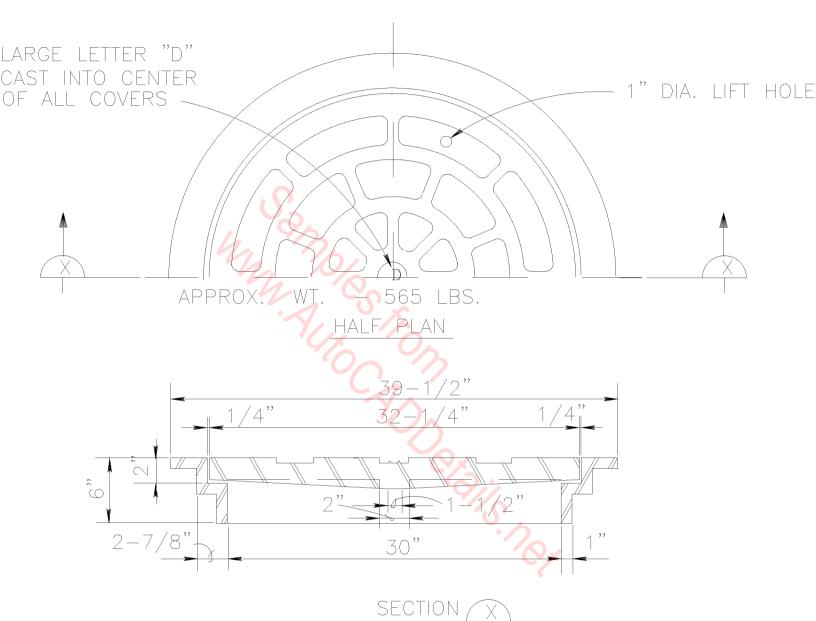
TYPICAL PRECAST CONCENTRIC MANHOLE DETAIL



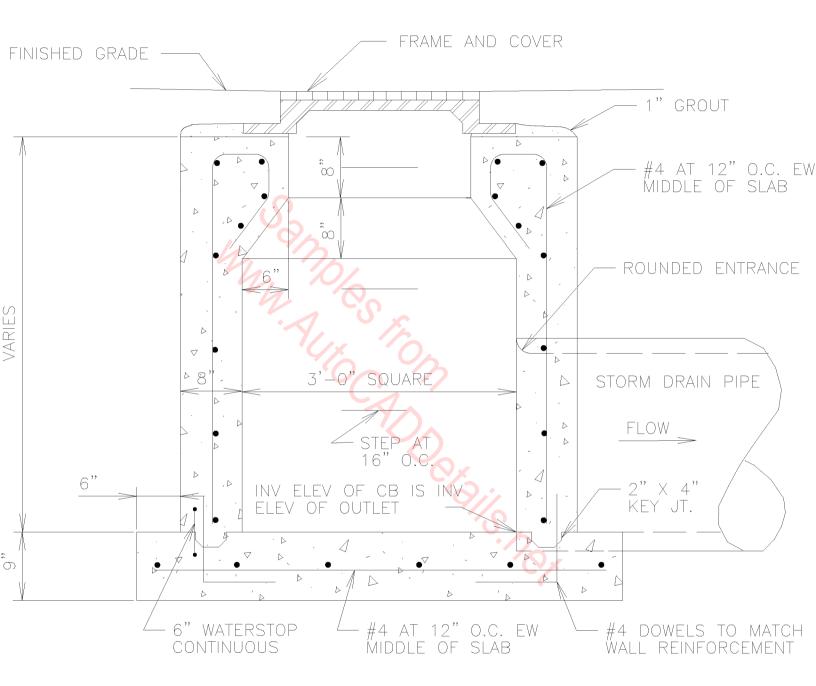
TYPICAL PRECAST ECCENTRIC MANHOLE DETAIL



TYPICAL PRECAST SHALLOW MANHOLE DETAIL N.T.S.

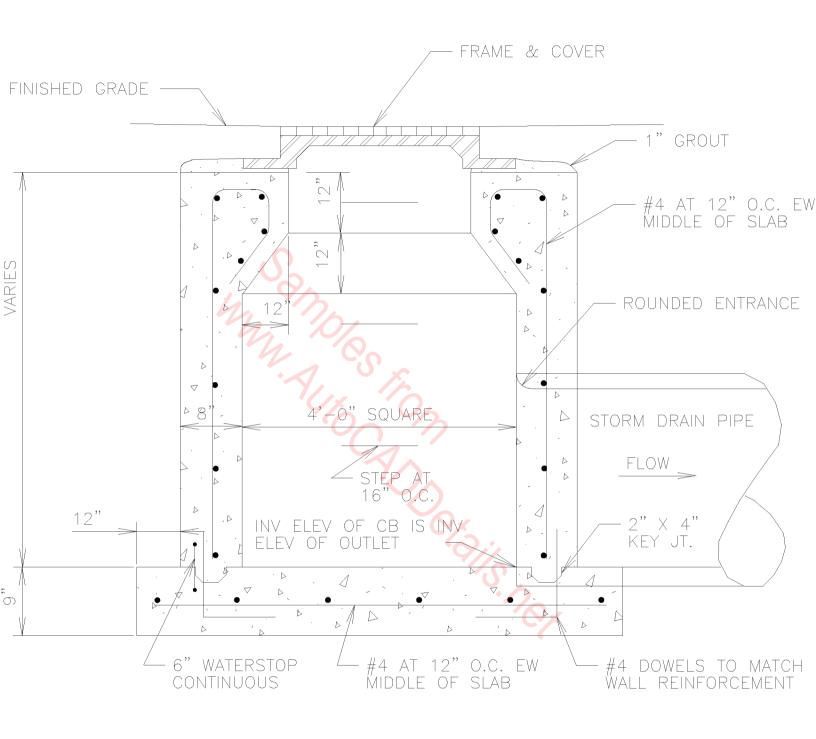


# MANHOLE COVER & FRAME MCF-30-HD N.T.S.



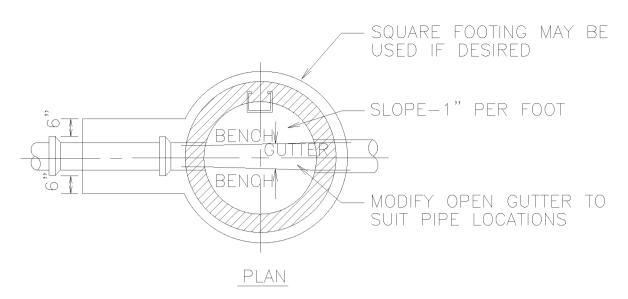
CATCH BASIN

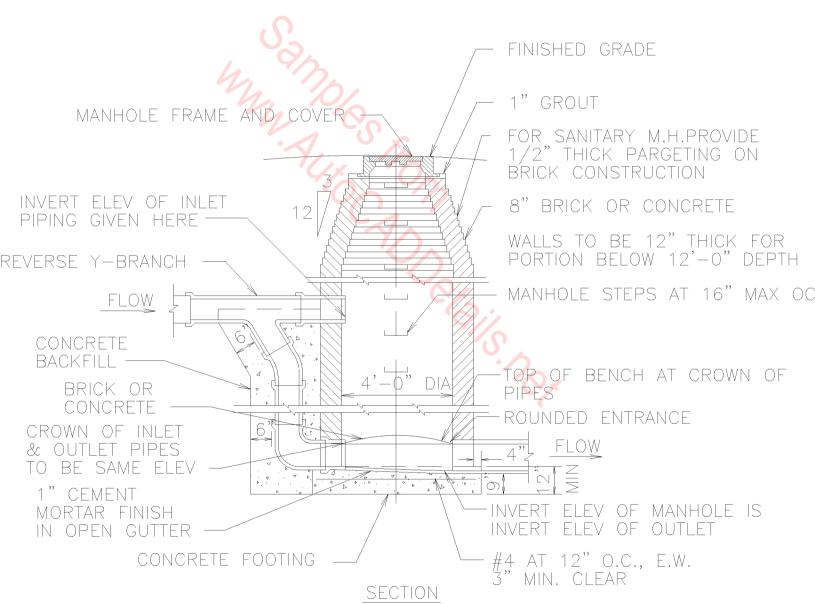
N.T.S.



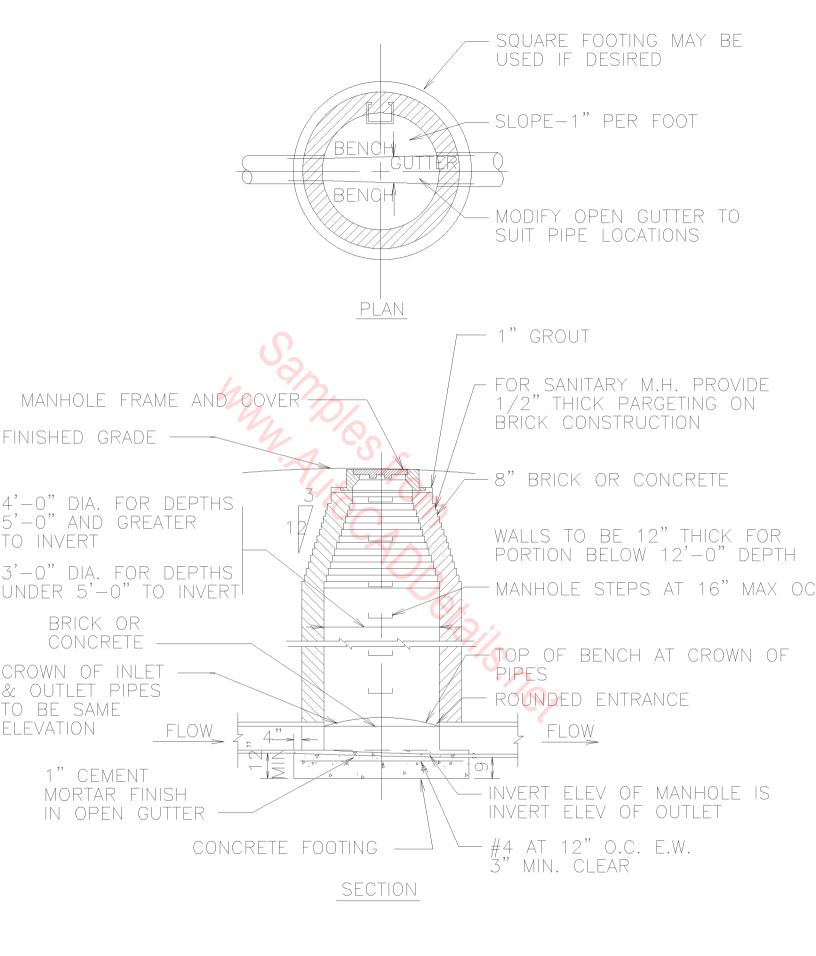
CATCH BASIN (30" AND 36" PIPE)

N.T.S.

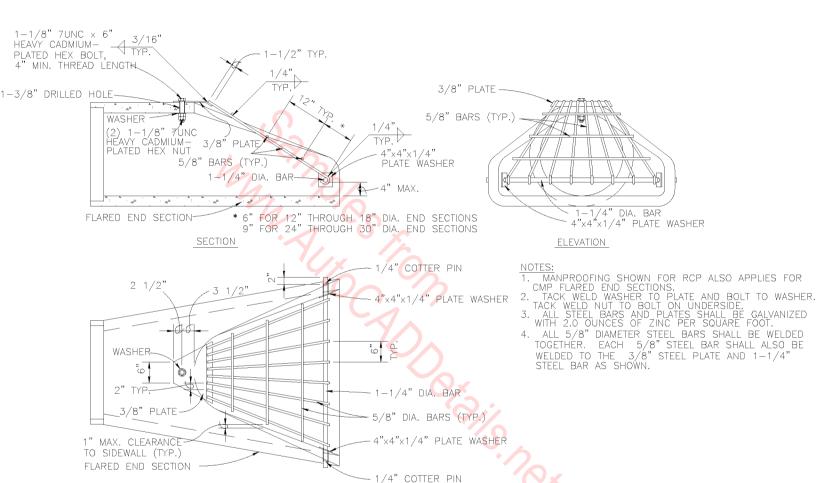




### DROP MANHOLE



### MANHOLE N.T.S.

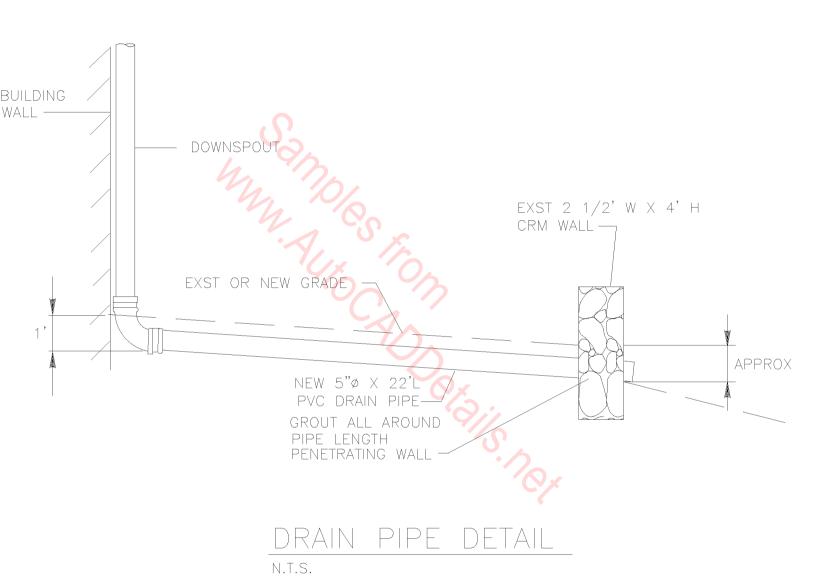


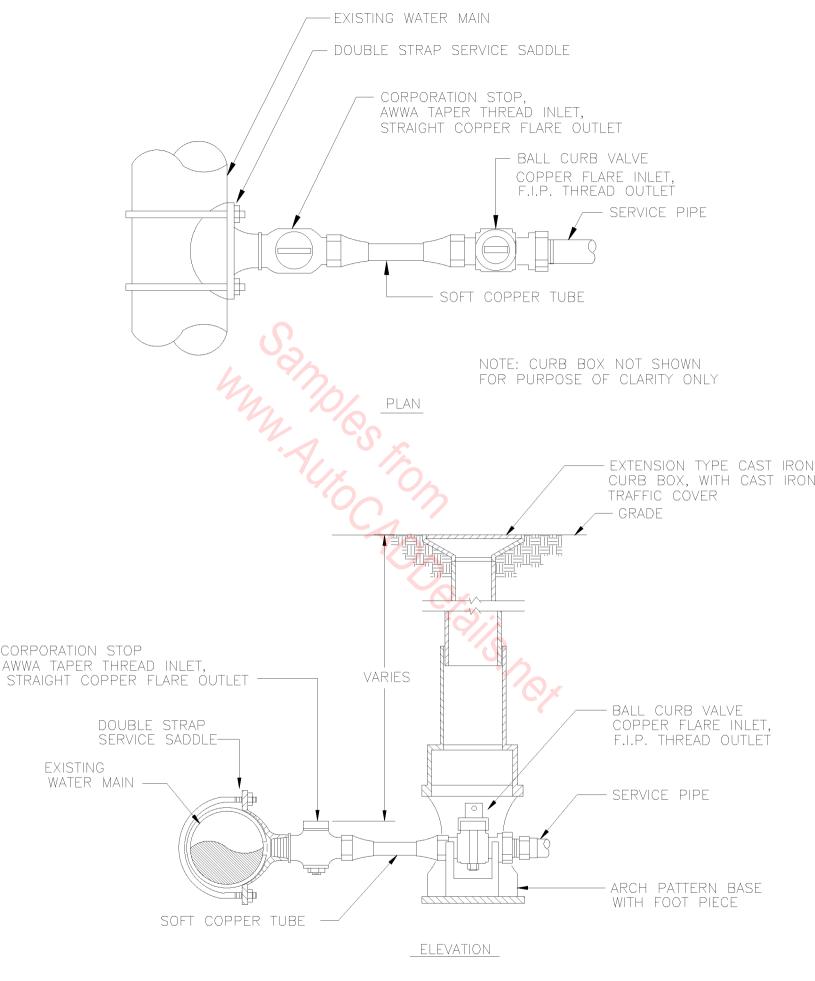
PLAN

FLARED END SECTION STEEL

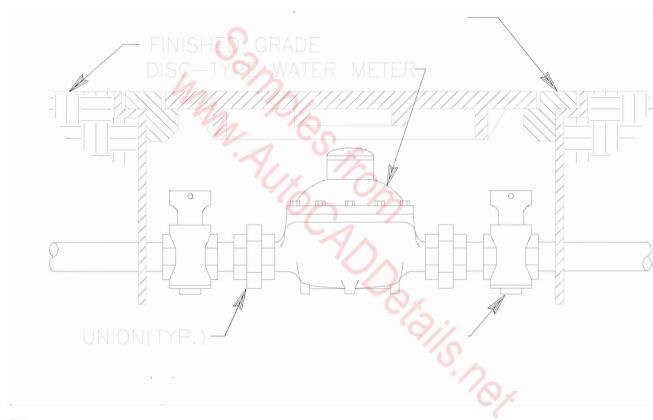
BARRIER MANPROOFING DETAIL

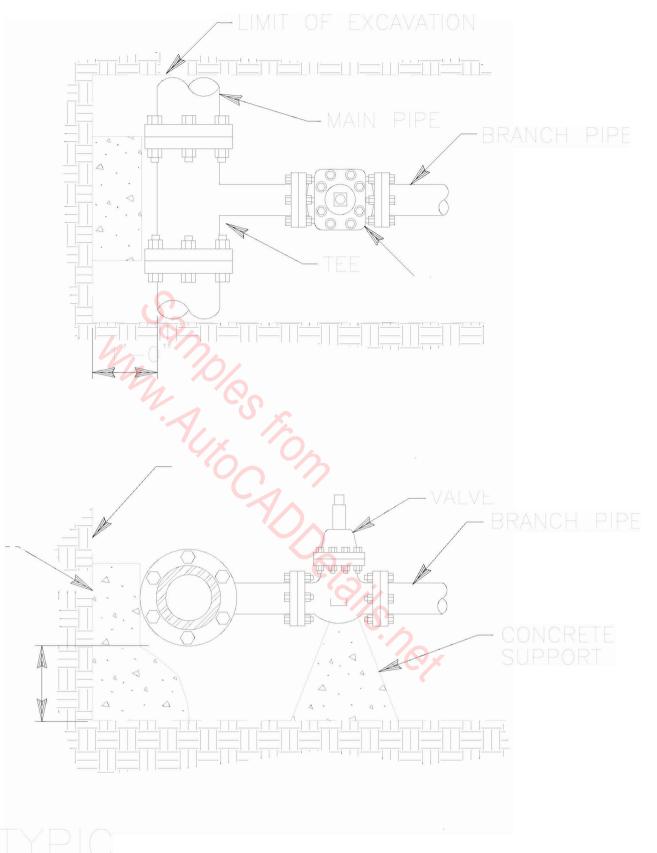
N.T.S.

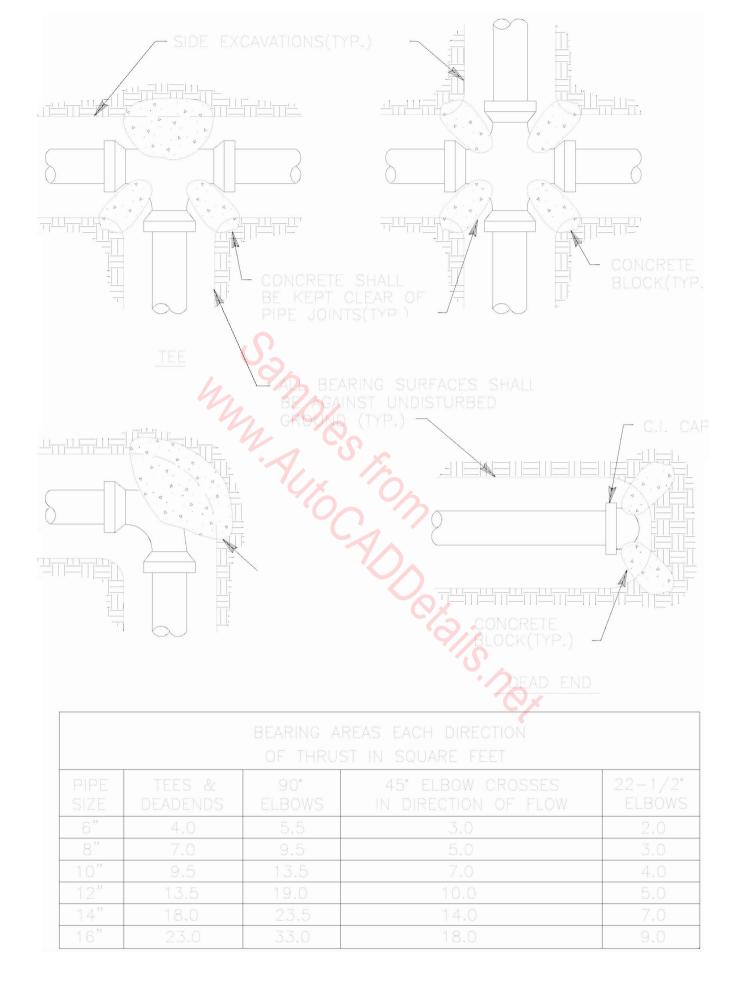


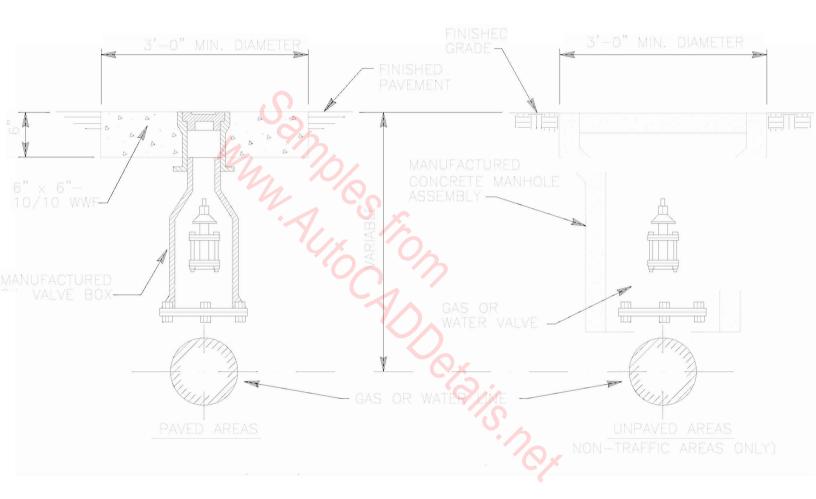


WATER MAIN CONNECTION DETAIL

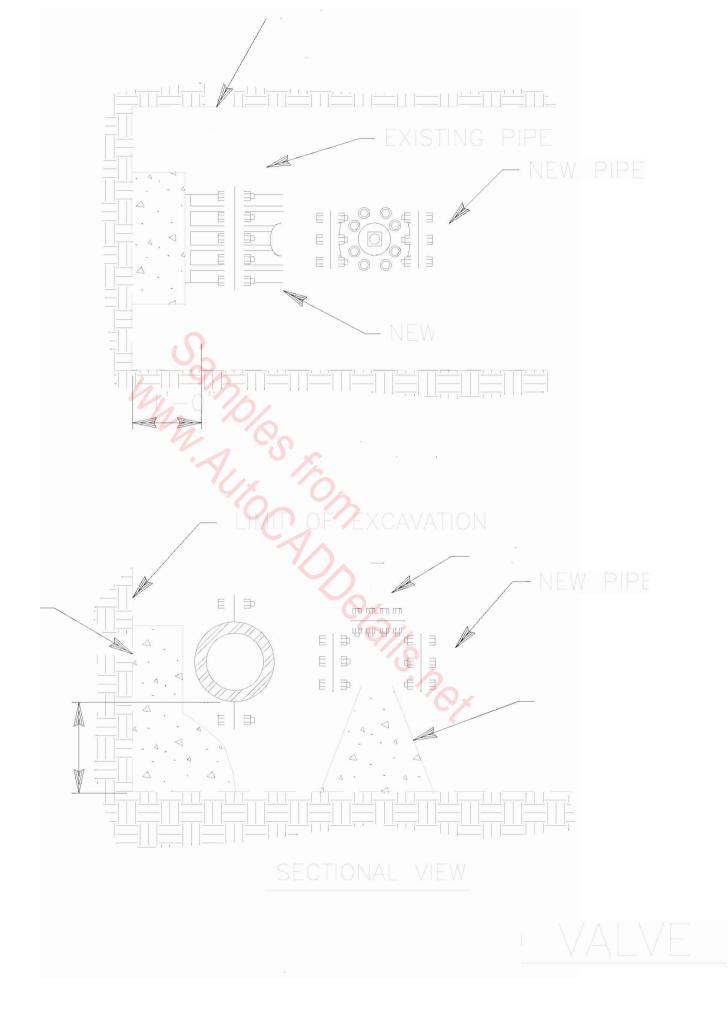


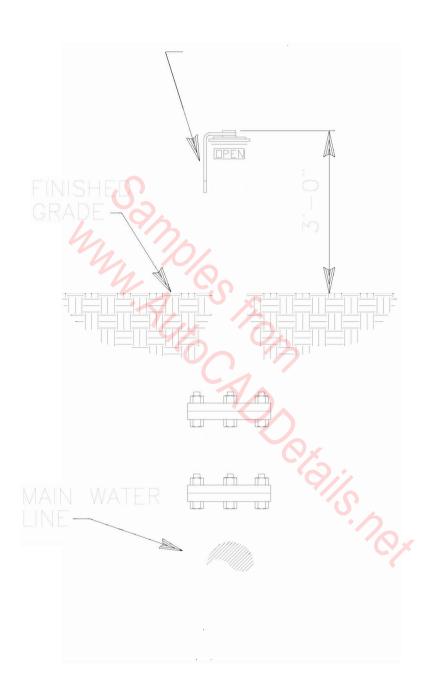


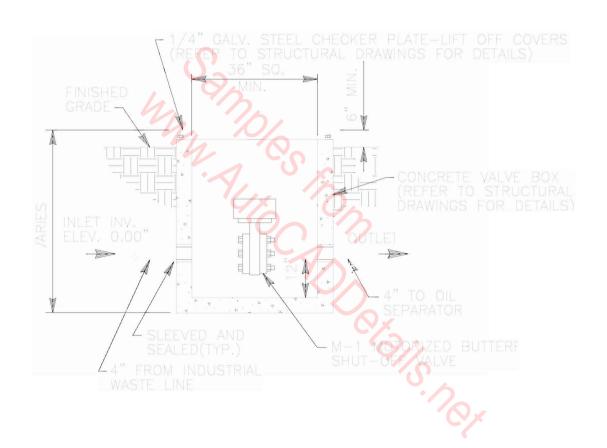




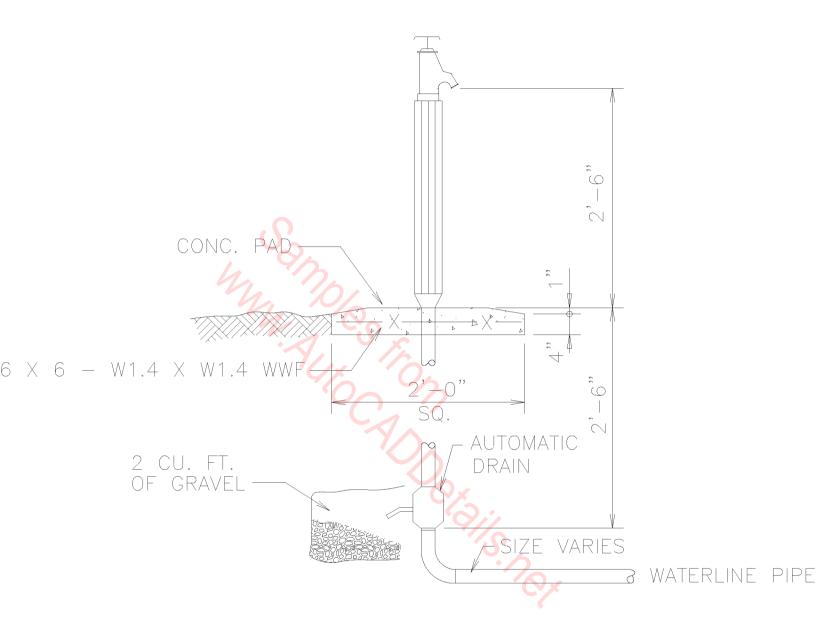
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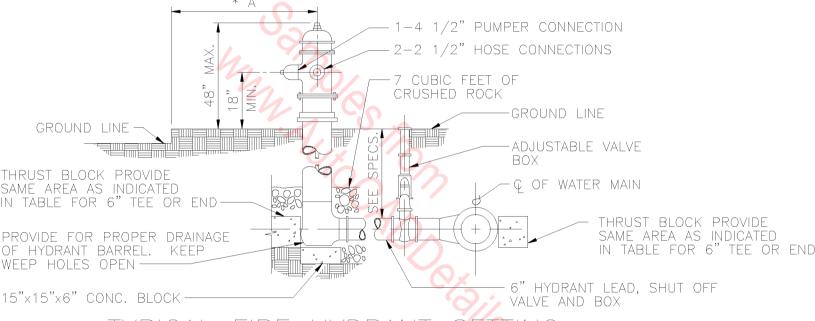




N. L. D



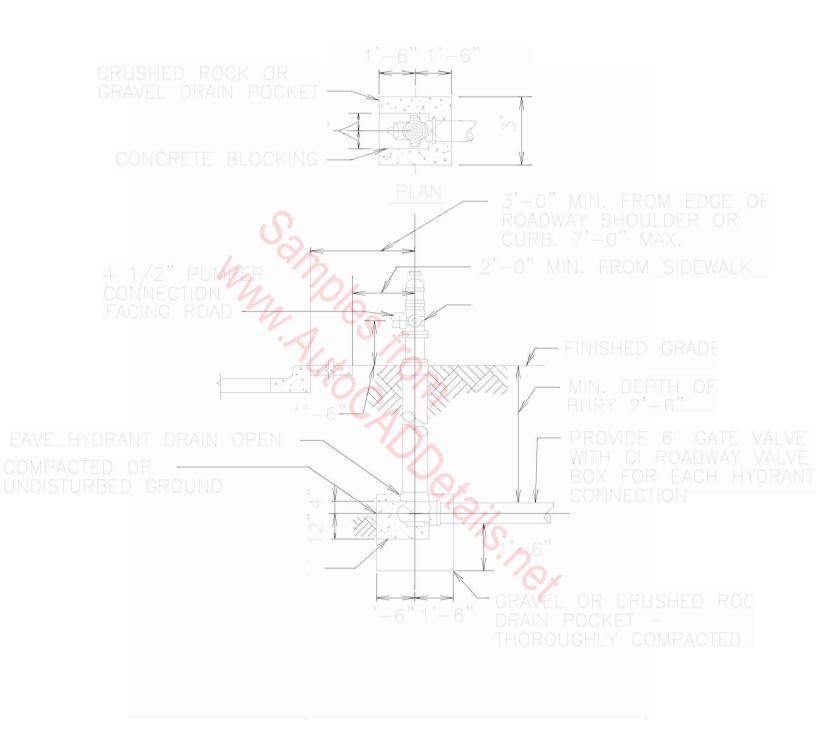
## YARD HYDRANT DETAIL



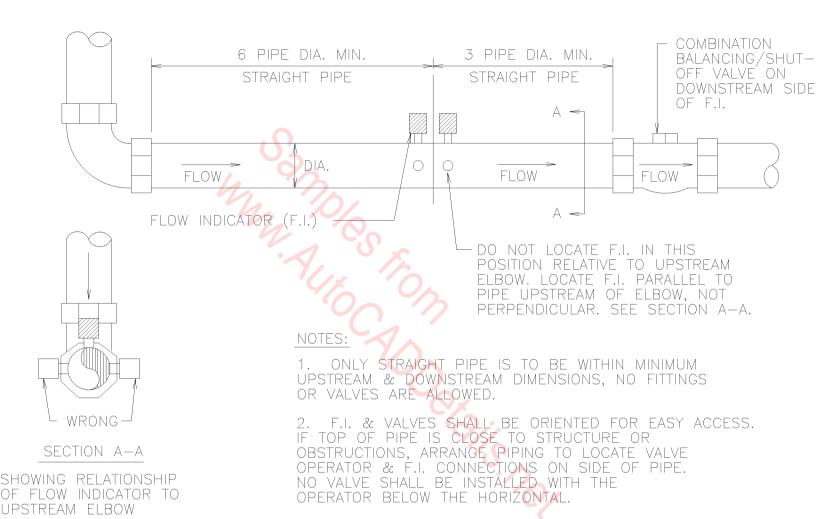
<u>typical fire hydrant setting</u>

N.T.S.

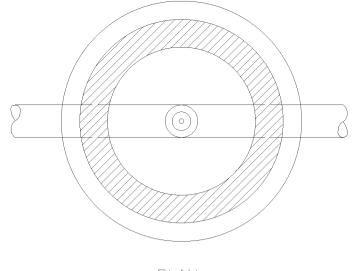
\* A =7'-0" FROM BACK OF PAVEMENT WHERE NO CURB EXISTS OR 4'-0" FROM BACK OF CURB.



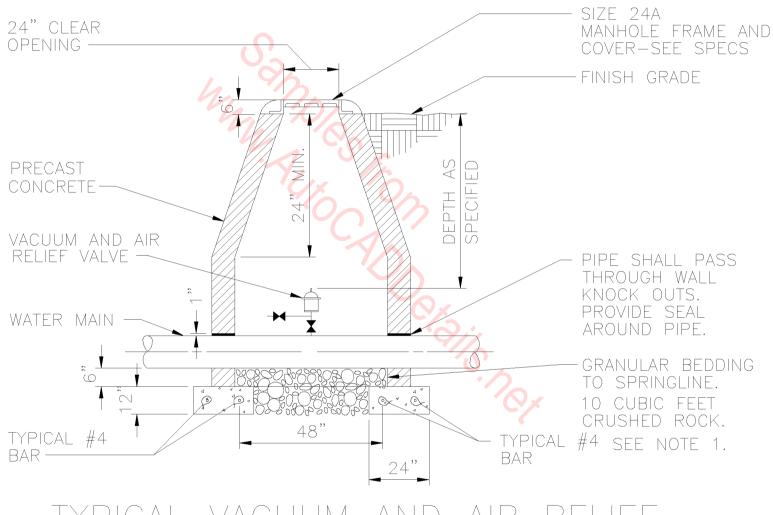
N.T.S.



FLOW INDICATOR DETAIL



PLAN

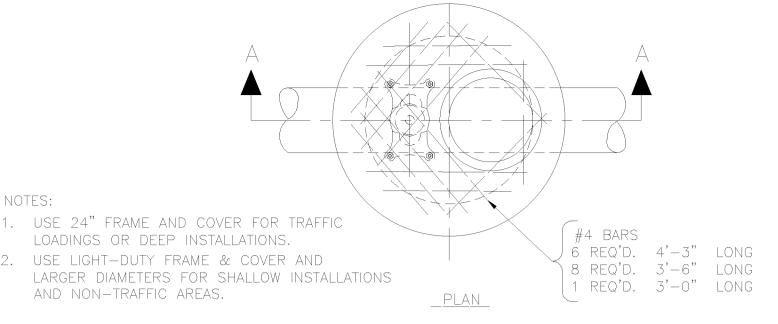


# TYPICAL VACUUM AND AIR RELIEF VALVE MANHOLE, DRY CONDITIONS

N.T.S.

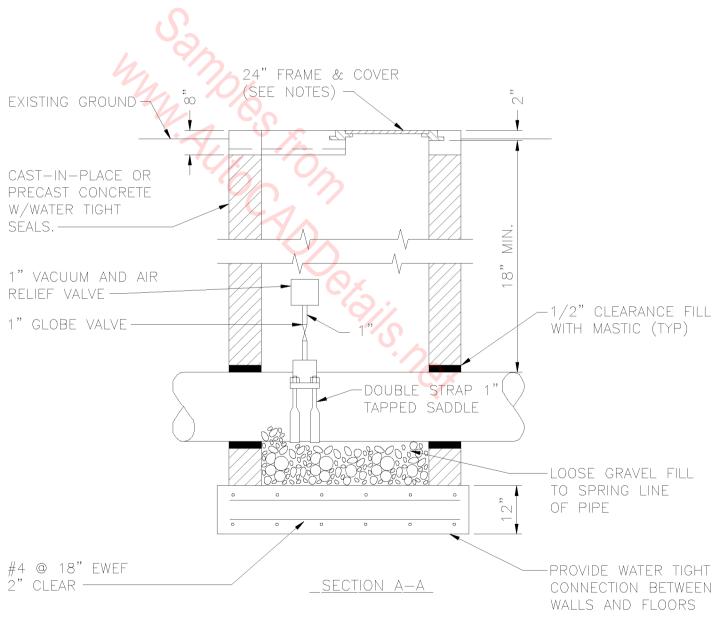
## NOTES:

- 1. PROVIDE SUITABLE SUPPORT TO RELIEVE STRESS ON PIPE AND FITTINGS WITH GRANULAR BEDDING TO SPRING LINE OF PIPE.
- 2. PROVIDE NON-RIGID JOINT A DISTANCE FROM 1 TO 2 FEET ON EACH SIDE OF THE MANHOLE.
- 3. A FLAT TOP MANHOLE MAY BE USED.

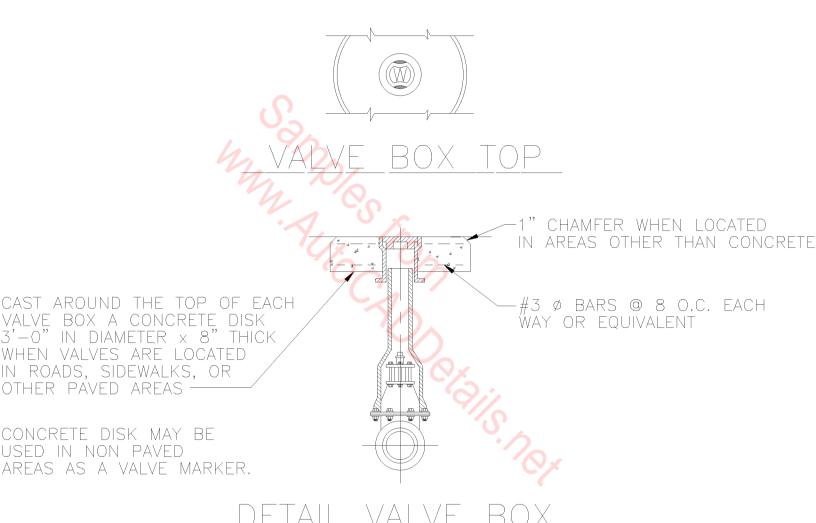


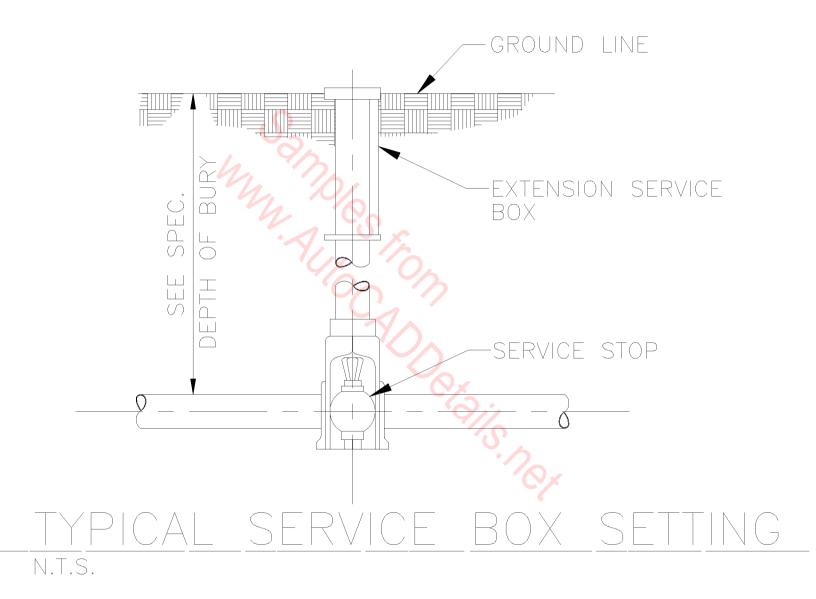
NOTES:

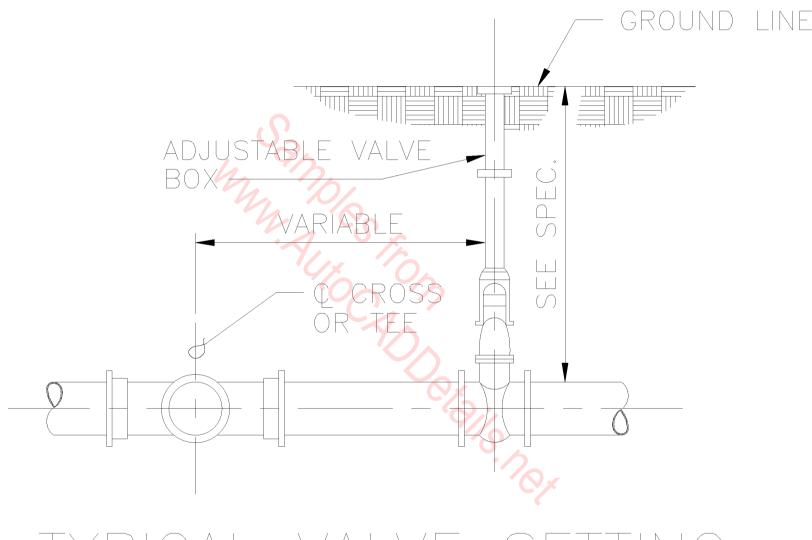
N.T.S.



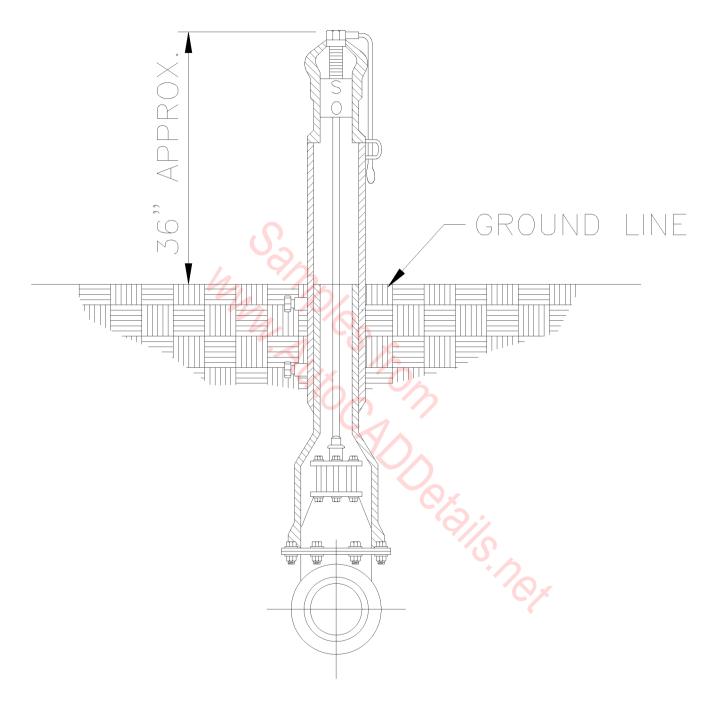
VACUUM AND AIR RELIEF VALVE MANHOLE



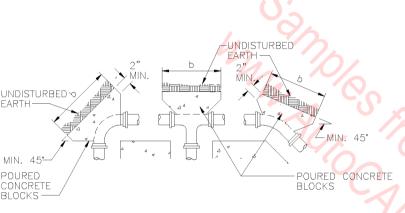


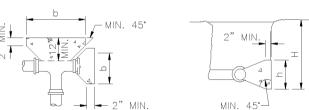


TYPICAL VALVE SETTING



## POST INDICATOR VALVE

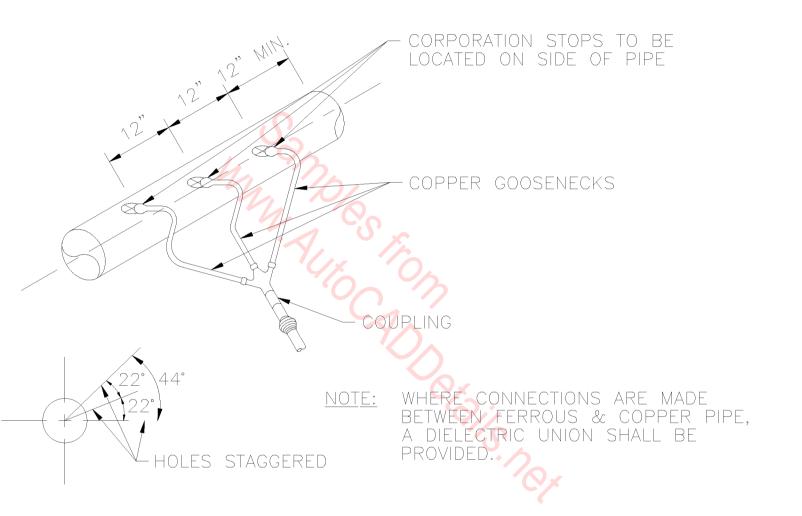




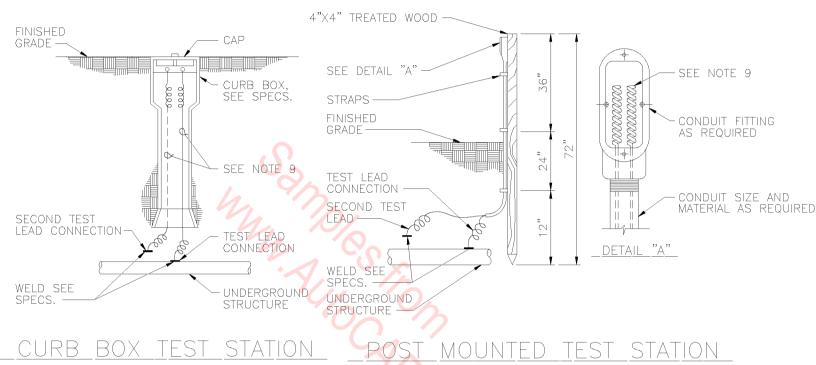
## NOTES:

- PLACE 4 ml. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT.)
- MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
- THE HORIZONTAL DIMENSION (b) OF THE BEARING AREA SHALL BE BETWEEN 1.0 AND 2.0 TIMES THE VERTICAL DIMENSION (h).  $( h \le b \le 2h )$
- THE VERTICAL DIMENSION (h) OF THE BEARING AREA SHALL BE EQUAL TO ONE—HALF THE TOTAL DEPTH (H) TO THE BOTTOM OF THE THRUST BLOCK BUT NOT LESS THAN THE OUTSIDE DIAMETER (Do)
- IHRUSI BLOCK BUI NOI LESS THAN THE OUTSIDE DIAMETER (Do) OF THE FITTING ( Do < h <=  $\rm H/2$  ). THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK. THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

BEARING AREA OF BLOCK IN SQ. FT. (b x h)							
FITTING SIZES	TEE	& END	90°	BEND	45° BEND	22, 1/2 BEND	11 1/4 BEND
CAX							
	$\mathcal{L}(\mathcal{O})$						



# TYPICAL GOOSENECK CONNECTION N.T.S.



SEE NOTES 1,5,6,7,8, & 9

STATIO FAI) N.T.S.

## NOTES:

SEE NOTES 1,2,3,4,8, & 9

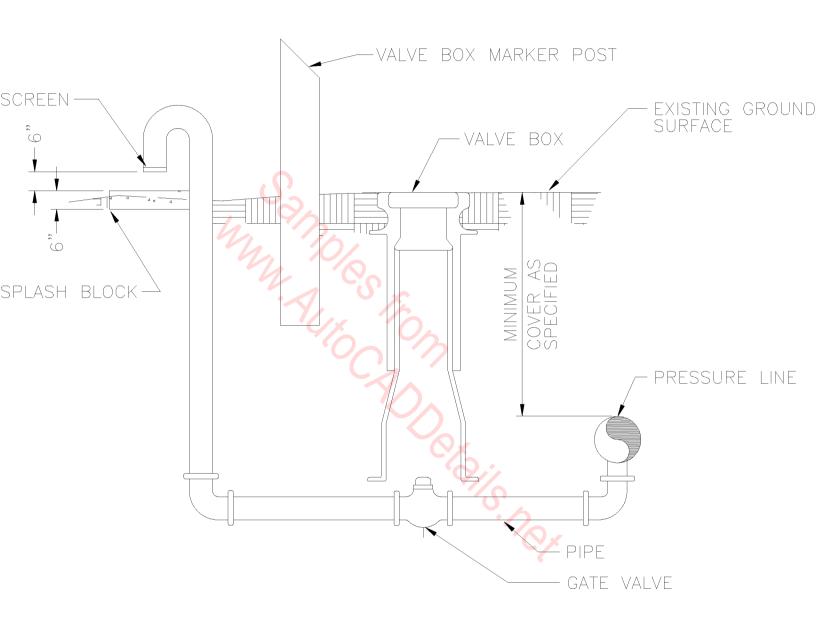
- TYPE OF TEST STATION & LOCATION TO BE DETERMINED BY CONTRACTING OFFICER. TEST LEADS TO BE INSTALLED IN CURB BOXES (OF C.I. OR PLASTIC).

  CURB BOXES TO BE INSTALLED FLUSH WITH GROUND AND LOCATED OVER OR NEAR 2.3.
- PIPE LINE TO WHICH TEST LEAD IS ATTACHED.

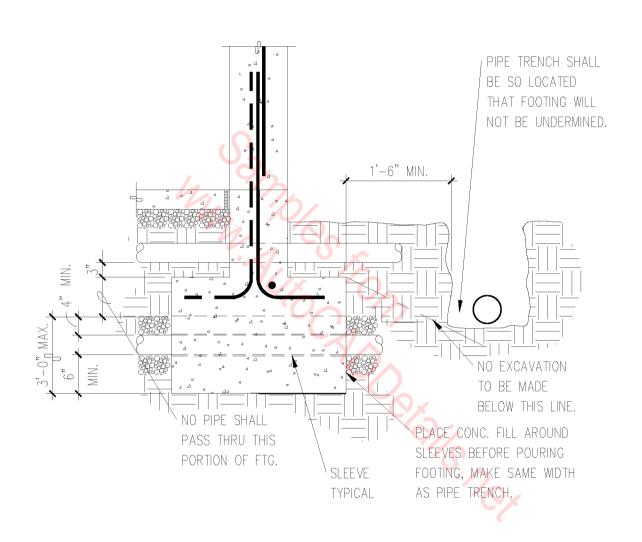
  TEST LEADS TO CONSIST OF No. 12 TW WIRE WITH ADEQUATE SLACK LEFT IN 4. EXCAVATION AND CURB BOX.
- TEST LEAD BOX TO CONSIST OF CROUSE—HINDS E57 CONDULET WITH COVER AND
- GASKET OR APPROVED EQUAL.

  12" OF SLACK TEST LEAD WIRE TO BE LEFT IN TEST LEAD BOX AND WIRE CONNECTOR OR ELECTRICAL TAPE TO BE PLACED OVER THE END OF THE TEST LEAD, ALL TEST
- LEADS TO BE OF No. 12 TW SOLID COPPER WIRE.

  EARTH AROUND TEST STATION SUPPORTING POST WILL BE THOROUGHLY COMPACTED 7. AT THE TIME OF INSTALLATION.
- PROVIDE THIS TEST STATION WHEN SPECIFIED ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, OR AS DIRECTED.
- PROVIDE ONE TEST LEAD UNLESS OTHERWISE NOTED. LEADS SHALL BE COLOR CODED.



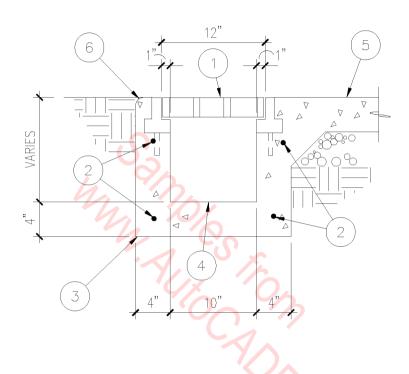
BLOW-OFF ASSEMBLY
n.t.s.



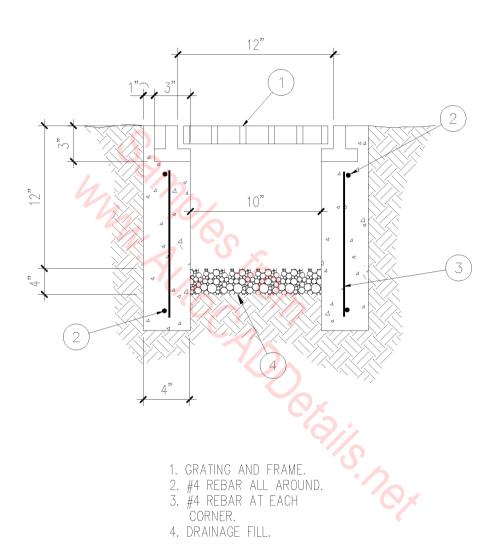
## DRAINAGE PIPE SLEEVE

SCALE: 3/4" = 1'-0"

02D - 100'



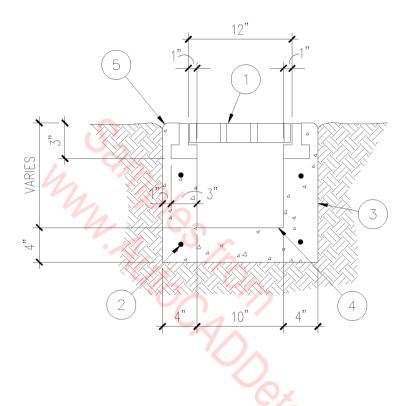
- 1. HEAVY DUTY GRATE & FRAME.
- 2. #4 REBARS CONTINUOUS TOP & BOTTOM. 3. C.I.P CONCRETE TRENCH
- DRAIN.
- 4. CONSTRUCT END OF TRENCH DRAINS SIMILAR TO SIDE CONSTRUCTION.
- 5. CONCRETE SLAB ON SUBGRADE.6. 1" RADIUS.



OPEN TRENCH DRAIN

 $1 \ 1/2$ " = 1'-0"

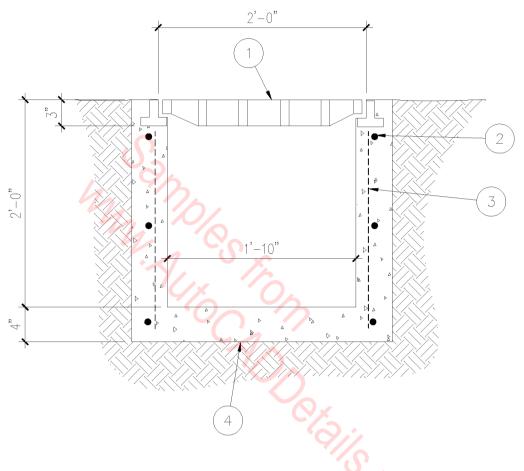
<del>020</del>-1003



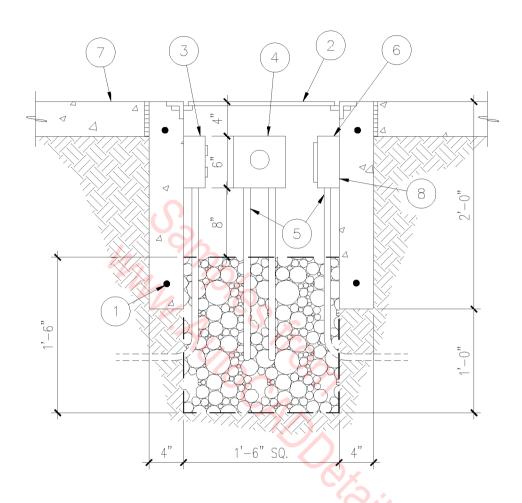
- 1. HEAVY DUTY GRATE
- & FRAME.

  2. #4 REBAR CONTINUOUS
  TOP & BOTTOM.

  3. C.I.P. CONCRETE TRENCH
- DRAIN.
- 4. CONSTRUCT END OF TRENCH DRAINS SIMILAR TO SIDE CONSTRUCTION.
  5. 1" RADIUS.

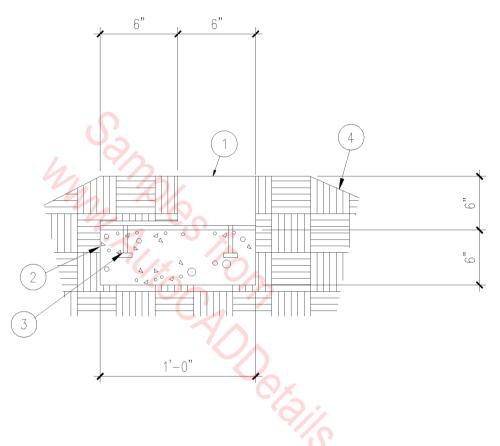


- GRATING AND FRAME.
   #4 REBAR AT 12" EACH WAY.
   #4 REBAR AT EACH CORNER.
   CONCRETE.



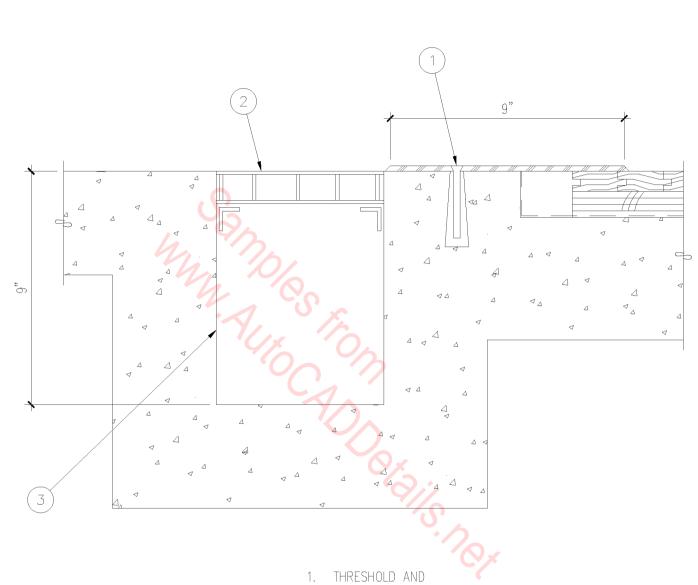
- 1. #4 REBAR CONTINUOUS ALL AROUND.
- 2. "18" X 18" FLUSH HINGED MANHOLE COVER WITH PADLOCK.
- 3. DUPLEX OUTLET IN WATERPROOF BOX - SEE ELECTRICAL.
- 4. MIC OUTLET IN WATERPROOF BOX-SEE ELECTRICAL.
- 5. CONDUITS-SEE ELECTRICAL.

- 6. WATERPROOF BOX WITH COVER FOR FIELD INTERCOM SYSTEM—
  SEE ELECTRICAL.
- 7. CONCRETE SLAB OVER SUB-GRADE.
- 8. SCOREBOARD CONTROL WIRES IN WATERPROOF J-BOX ON SIDE OF MANHOLE-SEE ELECTRICAL.



- PITCHER'S PLATE ANCHORED IN CONCRETE.
   CONCRETE FOOTING.
   ANCHORING SPIKES.
   FINISH GRADE.

PITCHER'S PLA SCALE: 1 1/2" = 1'-0'



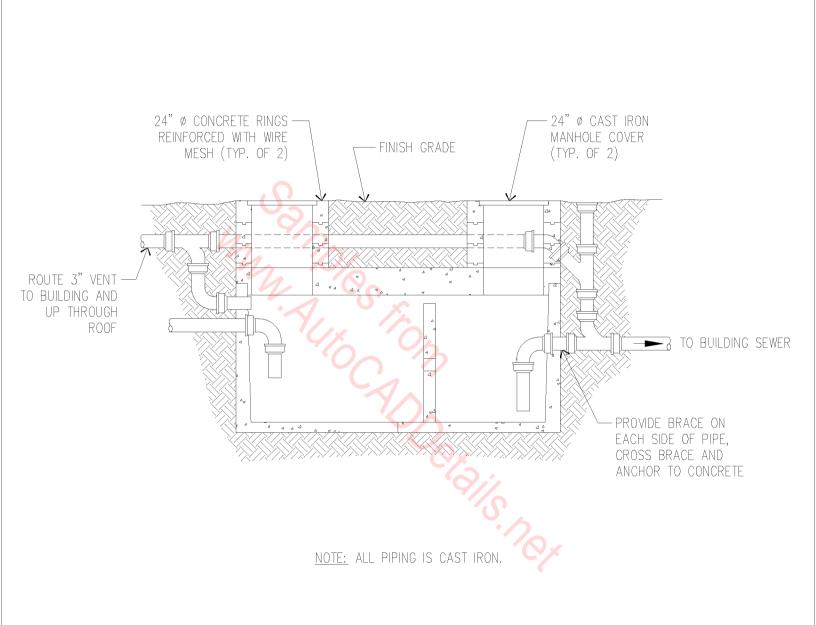
1. THRESHOLD AND WOOD FLOOR.

- 2. METAL GRATE.
- 3. TRENCH DRAIN.

GYM FLOOR @ DRAIN

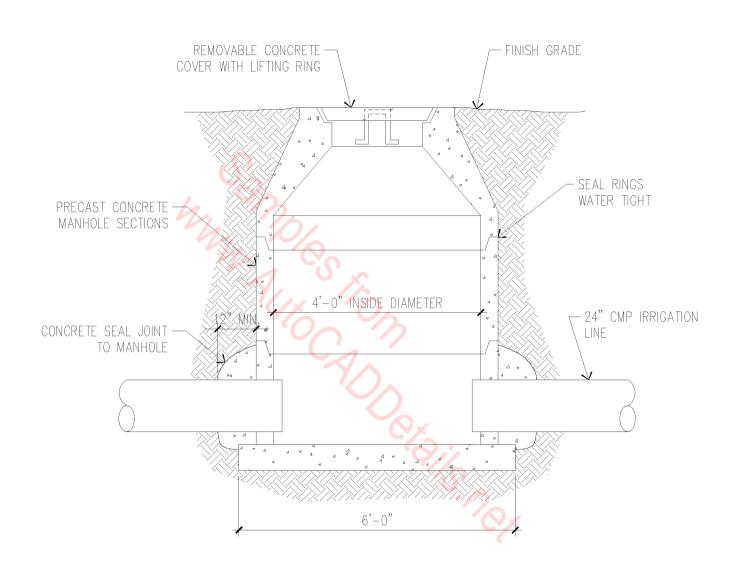
3" = 1'-0"

02D-1008



EXTERIOR GREASE TRAP

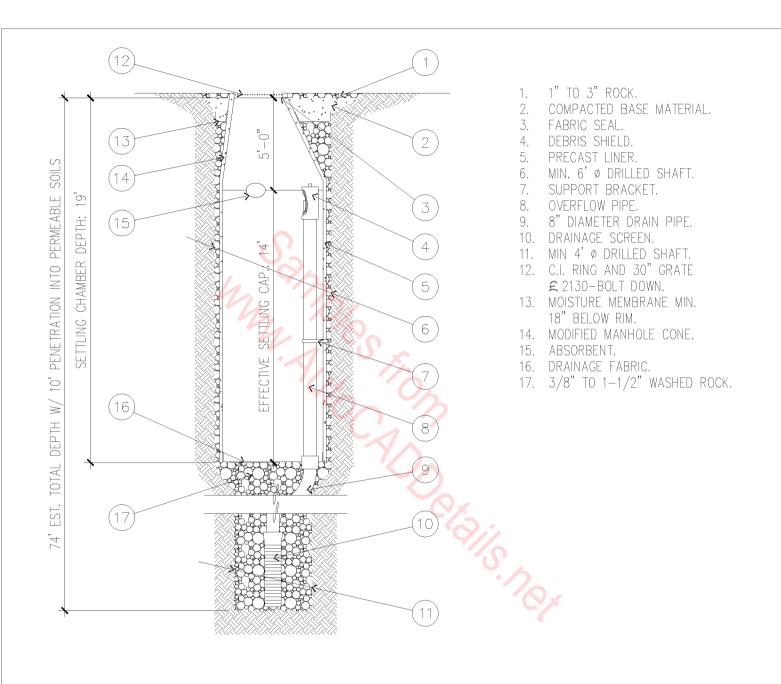
N.T.S. 02D-1009

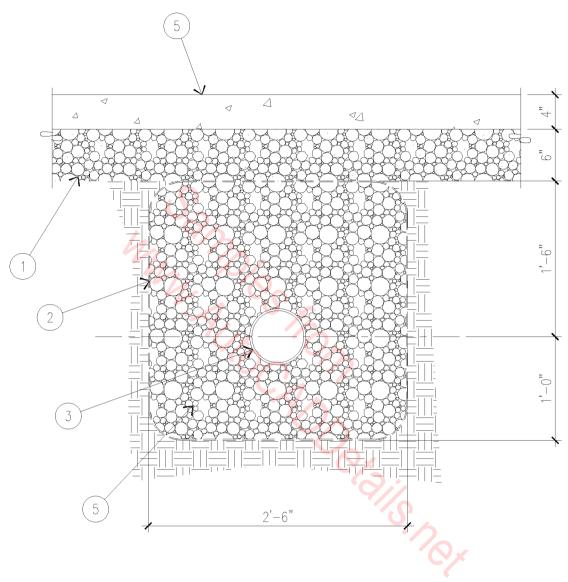


MANHOLE DETAIL

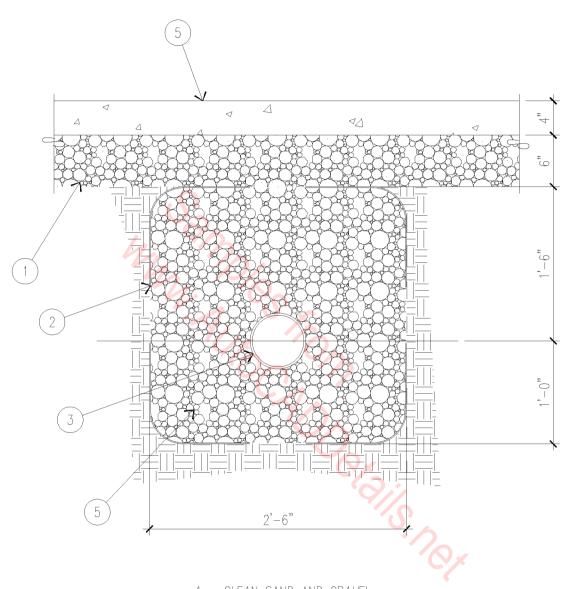
N.T.S.

020-1010

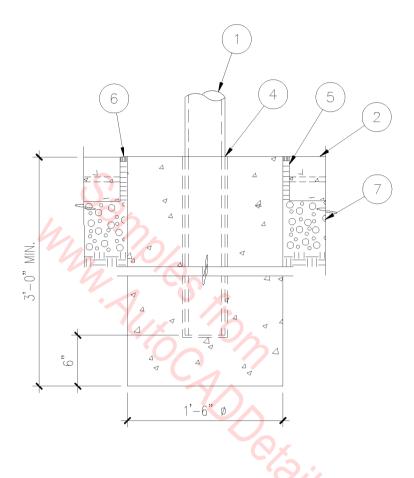




- CLEAN SAND AND GRAVEL.
- 2. FILTER FABRIC.
  3. 6" Ø PERFORATED DRAIN PIPE.
  4. 3/4" WASHED GRAVEL.
  5. CONCRETE FLOOR.

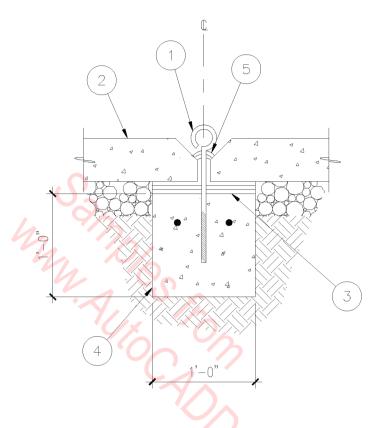


- CLEAN SAND AND GRAVEL.
- FILTER FABRIC.
   6" Ø PERFORATED DRAIN PIPE.
   3/4" WASHED GRAVEL.
- 5. CONCRETE FLOOR.

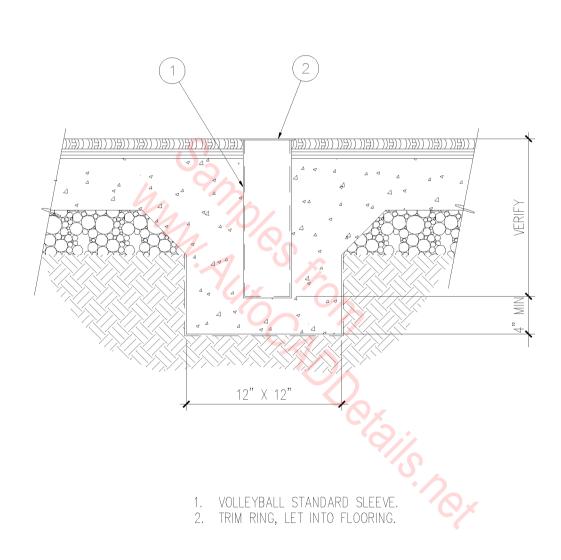


- 1. TENNIS NET POST & STEEL SLEEVE.
- 2. REINFORCED CONCRETE SLAB ON SUBGRADE.

- 3. CONCRETE FOOTING.
  4. TACK WELD POST IN SLEEVE.
  5. 1/2" WIDE CONTINUOUS EXPANSION JOINT.
- 6. CAULK LEVEL WITH TOP OF SLAB AT EXPANSION JOINT.
- 7. A.B.C.



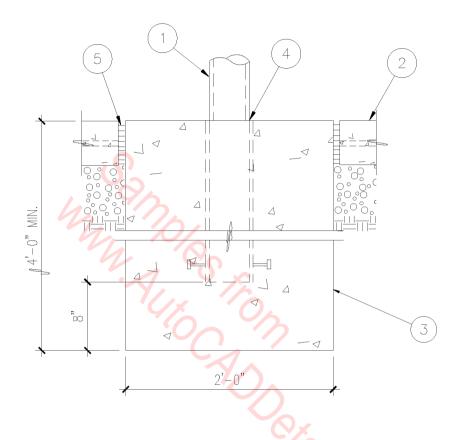
- TENNIS NET CENTER COURT HOLD - DOWN EYE HOOK (3/4" EYE). 2. REINFORCED CONCRETE SLAB ON
- A.B.C.
- 3. (3) LAYERS 30# FELT AS CONTINUOUS BOND BREAKER BETWEEN COURT SLABS
- & CONTINUOUS FOOTING.
  4. 12" X 12" X CONTINUOUS FOOTING CENTERLINE OF EACH TENNIS COURT.
- 5. CAULK AROUND EYE HOOK.



VOLLEYBALL ANCHOR

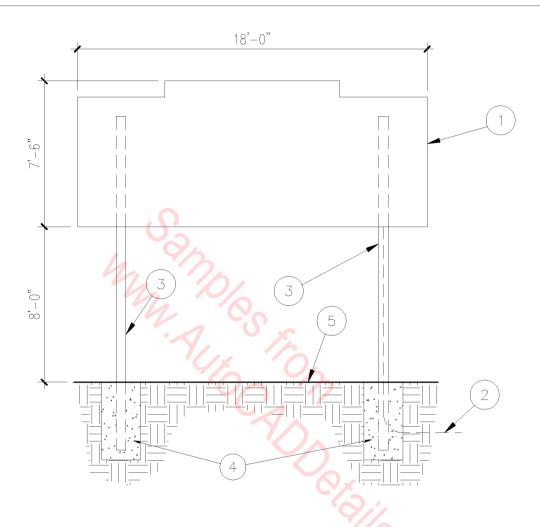
 $1 \ 1/2$ " = 1'-0"

 $\overline{02D} - 2003$ 



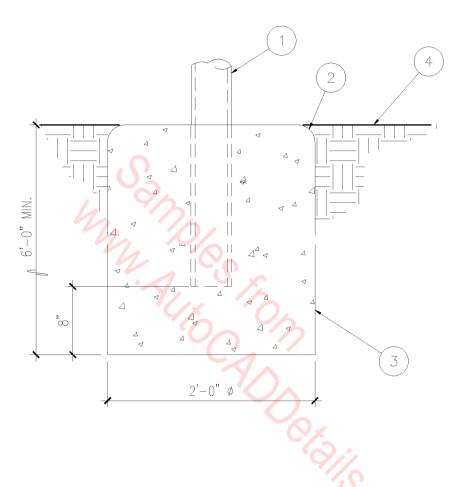
- 1. BASKETBALL GOAL SUPPORT POST & SLEEVE. CAP
  SLEEVE BOTTOM & PROVIDE
  (2) 3" LONG NELSON STUDS.
  2. REINFORCED CONCRETE
- SLAB ON SUBGRADE.
- 3. CONCRETE FOOTING.
- 4. TACK WELD POST IN SLEEVE.
  5. 1/2" CONTINUOUS EXPANSION JOINT.

SCALE: 1" = 1'-0"



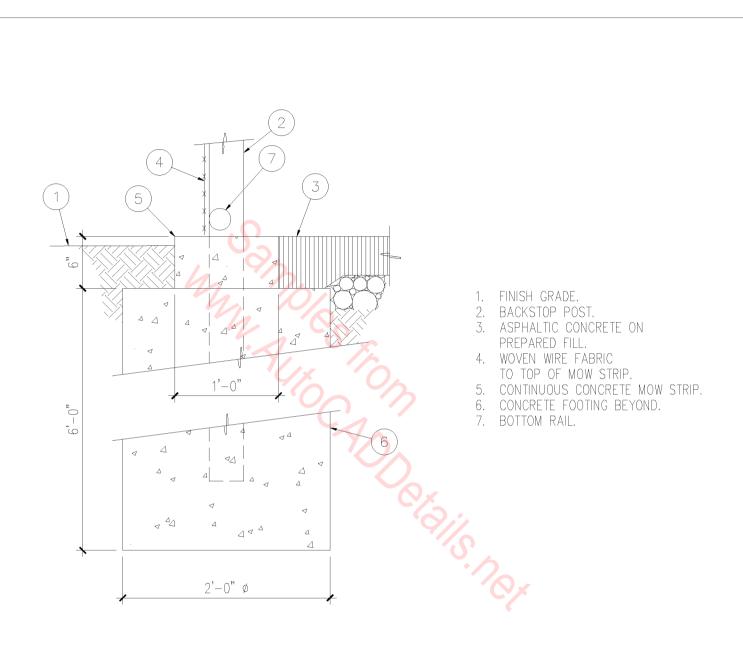
- ELECTRONIC FOOTBALL SCOREBOARD.
   ELECTRIC CONDUIT TO SCOREBOARD TO BE CAST IN FOOTING ALONG SIDE SUPPORT COLUMN.
   STEEL BEAM SCOREBOARD SUPPORT COLUMN BY MANUFACTURER. SIZE AND WEIGHT BY THE SCOREBOARD MANUFACTURER.
   CONCRETE FOOTINGS
- 4. CONCRETE FOOTINGS. 5. FINISH GRADE.

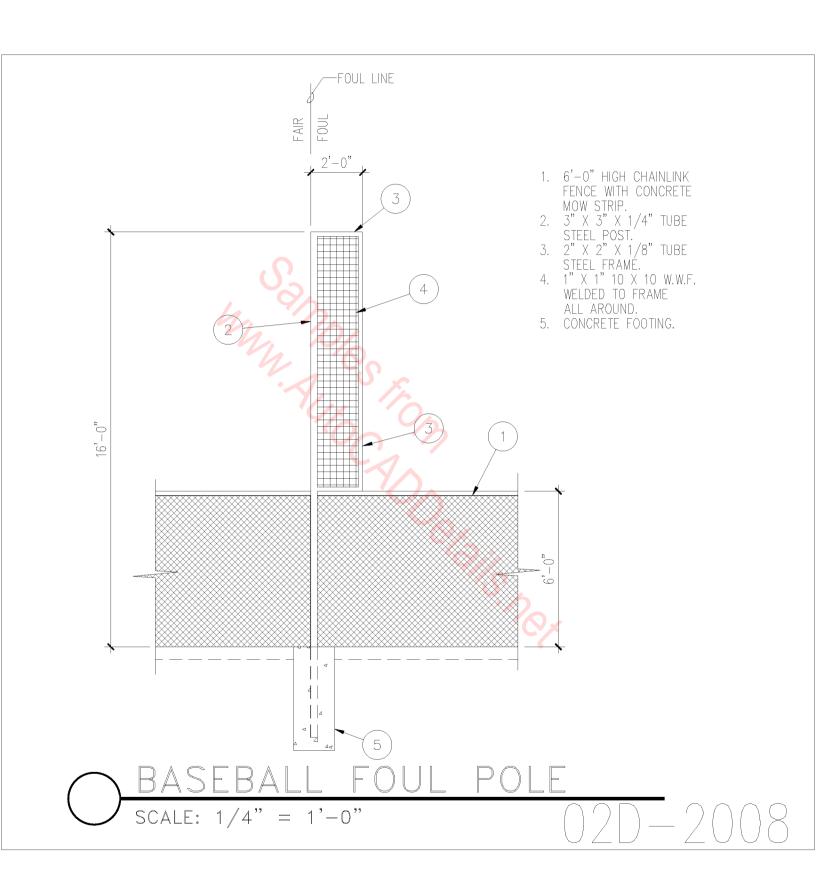
SCALE: 3/16" = 1'-0"

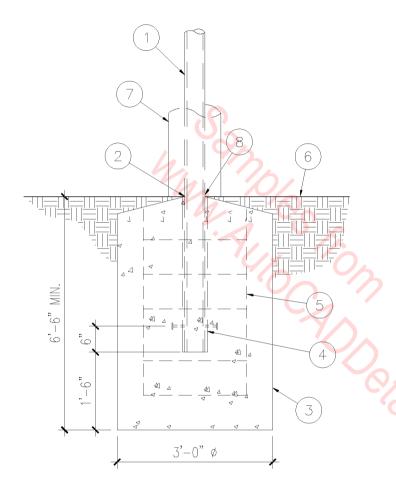


- 1. STEEL COLUMN SIZE & TYPE AS PER SCORE BOARD MANUFACTURER.
- 2. TOOLED EDGE.3. CONCRETE FOOTING REINFORCING REQUIREMENTS.
- 4. FINISH GRADE.

SCALE: 1" = 1'-0"







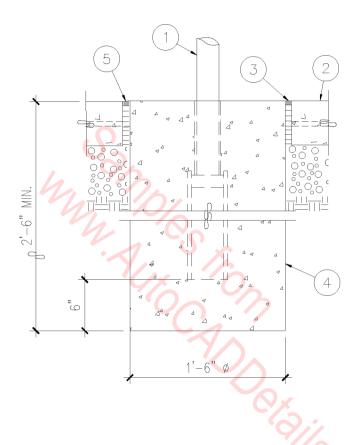
- 1. GALVANIZED HEAVY WALL STEEL TUBE GOAL POST.
- 2. TACK WELD POST IN SLEEVE.
- 3. CONCRETE FOOTING.
- 4. 8" INSIDE Ø GALVANIZED
  HEAVY WALL STEEL TUBE
  SLEEVE W/ BOTTOM CAP &
  (2) 3" LONG NELSON STUDS
- (2) 3" LONG NELSON STUDS.
  5. (8) #8 REBARS & #3 TIES

  @ 16" O.C.
- 6. FINISH GRADE.
- 7. POLE PADDING.
- 8. PROVIDE SLEEVE PLUG AT REMOVABLE GOAL POSTS.

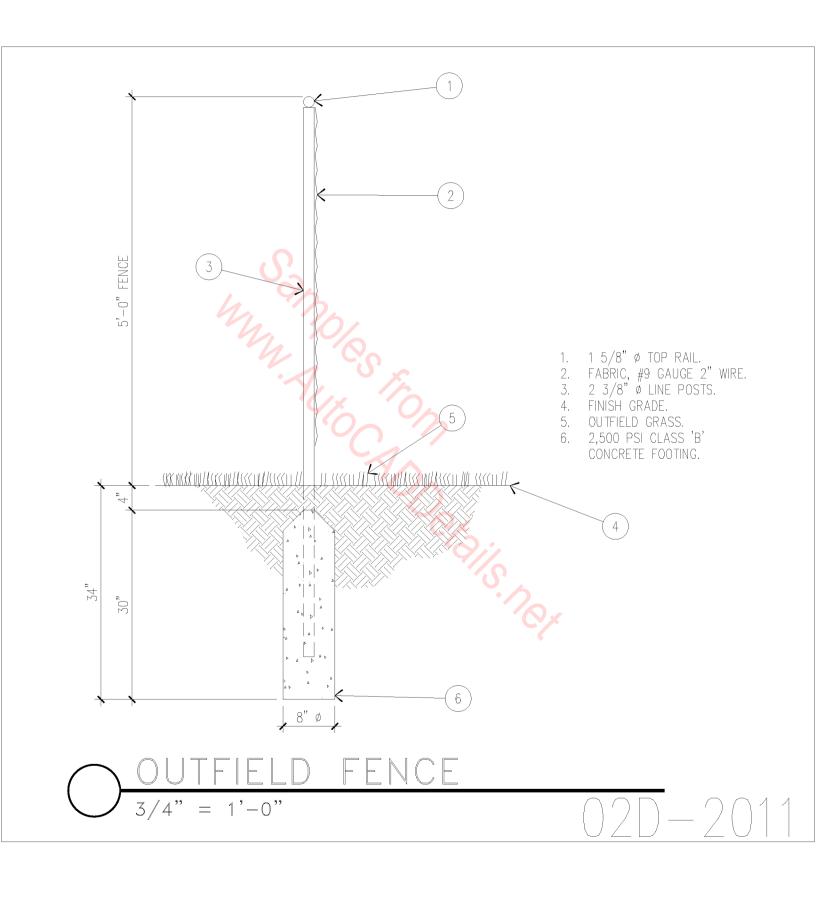
\* DO NOT TACK WELD AT REMOVABLE GOAL POSTS

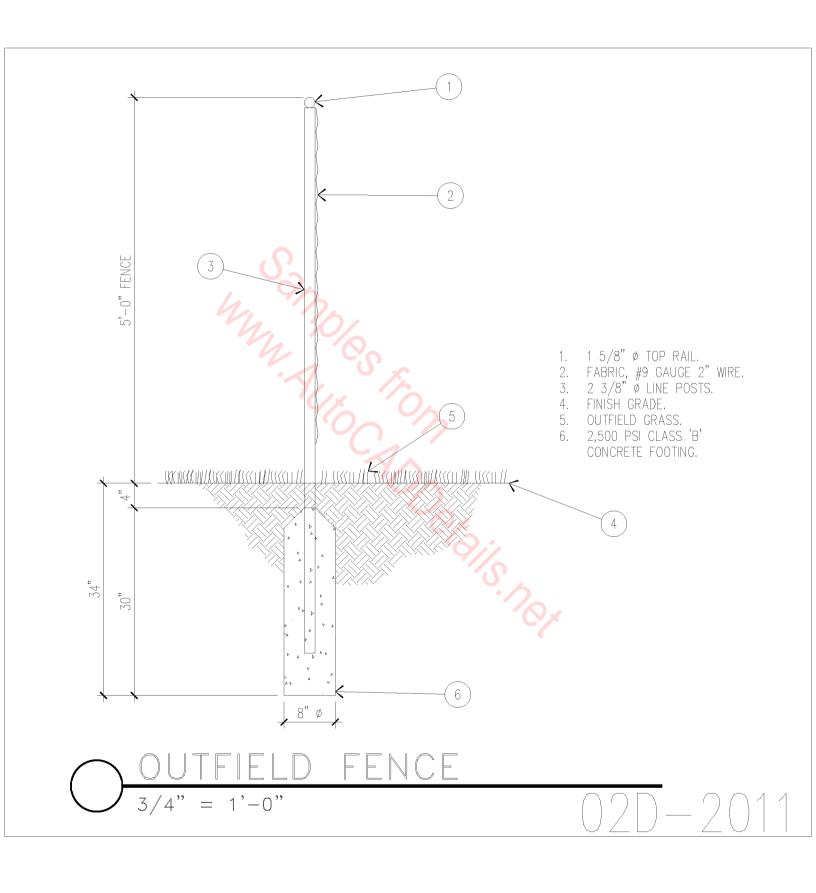
GOAL POST FOOTING

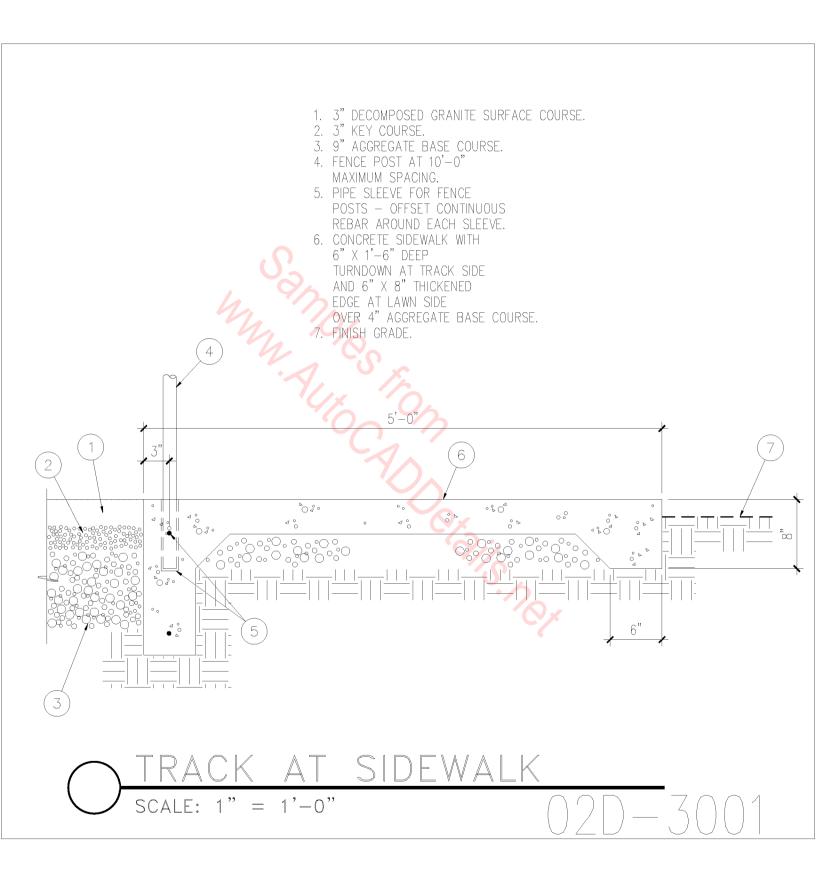
SCALE: 1/2" = 1'-0"

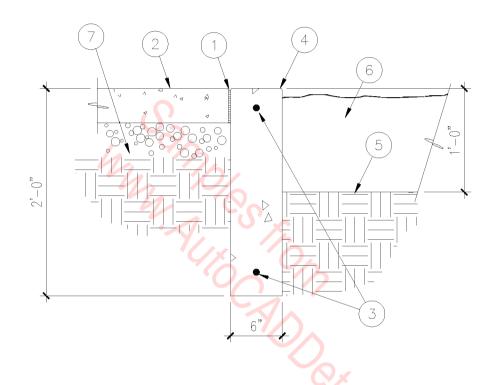


- REMOVABLE BADMINTON NET POST.
   6" REINFORCED BASKETBALL COURT SLAB.
   1/2" WIDE CONTINUOUS
- EXPANSION JOINT. 4. CONCRETE FOOTING.
- 5. CAULK LEVEL WITH TOP OF SLAB AT EXPANSION JOINT.



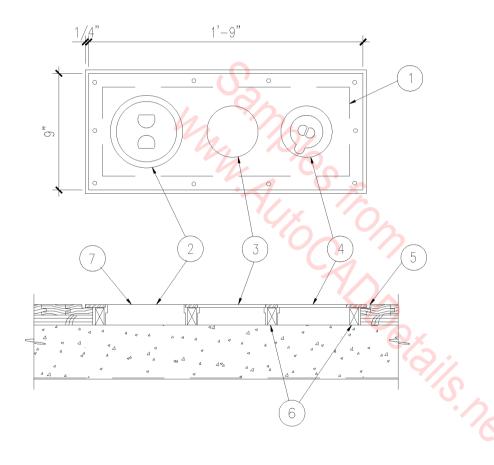






- TOOLED EDGE.
   CONCRETE SLAB
   ON A.B.C.
   CONCRETE CURB REINFORCEMENT
   WITH (2) #4 REBARS
   CONTINUOUS.
   RADIUS EDGE.
   FINISH GRADE.

- 6. SAND.7. SUB GRADE.

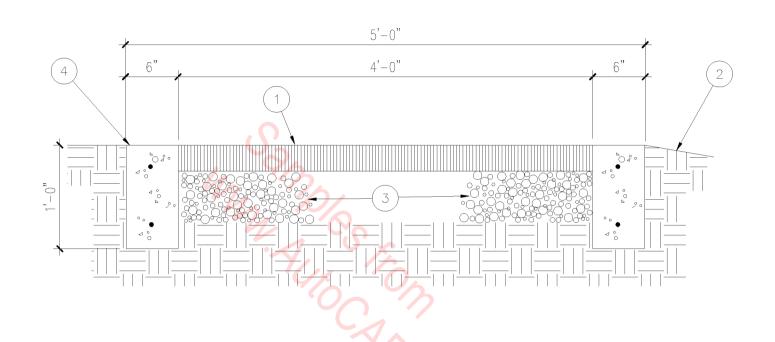


- 1. 1/4" THICK BRASS
  PLATE— MILL AFTER
  FIELD VERIFYING
  OUTLET LOCATIONS.
  ATTACH W/ BRASS
  FLAT HEAD COUNTER—
  SUNK FASTENERS.
- 2. POWER OUTLET COVER PLATE.
- 3. SCOREBOARD CONTROL OUTLET COVER PLATE.
- 4. MICROPHONE OUTLET COVER PLATE.
- 5. ROUT WOOD TO FIT PLATE FLUSH.
- 6. SHIM W/ K.D. LUMBER CUT TO FIT.
- 7. J-BOX TYP.-VERIFY DEPTH & IF SLAB DEPRESSION IS REQUIRED.

GYM FLOOR OUTLET

 $1 \ 1/2$ " = 1'-0'

020-3003

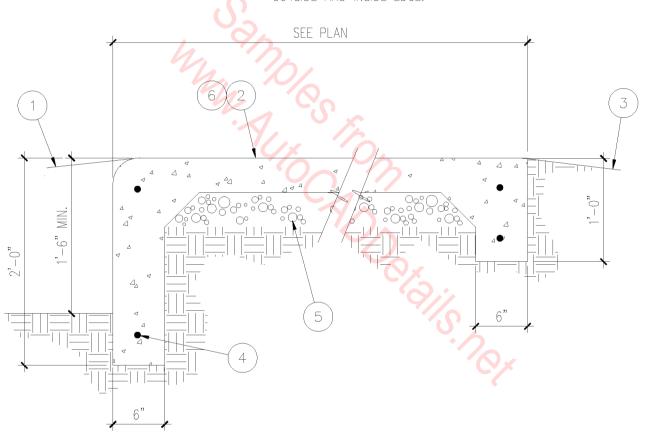


- 3" ASPHALTIC CONCRETE SURFACE COURSE.
   FINISH GRADE.
   6" AGGREGATE BASE COURSE.
   6" X 12" CONCRETE CURB WITH

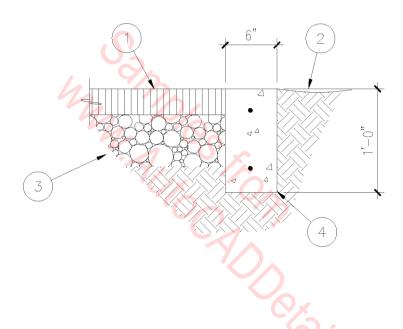
   (2) #4 REBARS CONTINUOUS.

NOTE: EXPANSION JOINTS AT 20'-0" O.C.

- 1. 1'-6" MIN. DEEP SAND IN LONG JUMP PIT. FLUSH TOP OF SAND WITH TOP OF CONCRETE.
- 2. CONCRETE APRON SLAB ALL AROUND SAND PIT.
- 3. FINISH GRADE.
- 4. #4 REBARS CONTINUOUS ALL AROUND. 5. 4" PREPARED FILL.
- 6. PAINT EXPOSED CONCRETE SURFACE WITH WHITE PAINT, 6" WIDE AT OUTSIDE AND INSIDE EDGE.



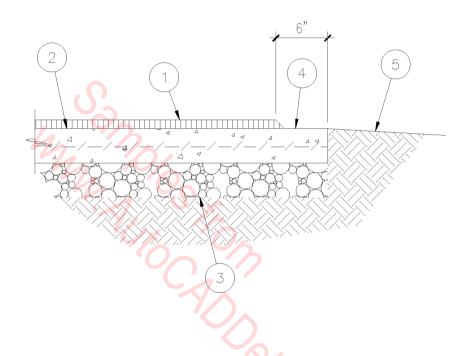
(a)



- 3" ASPHALTIC CONCRETE SURFACE COURSE.
   FINISHED GRADE.
   6" AGGREGATE BASE COURSE.
   6" X 12" CONCRETE CURB WITH

   (2) #4 REBARS CONTINUOUS.

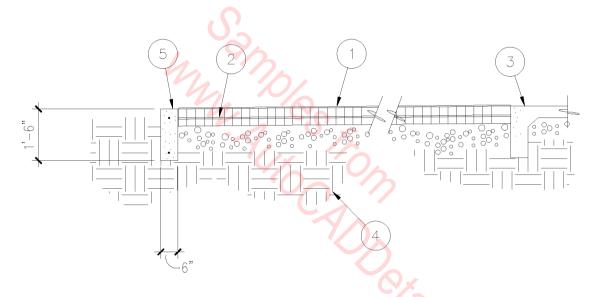
NOTE: EXPANSION JOINTS AT 20'-0" O.C.



- 1. ALL WEATHER SYNTHETIC TRACK, SURFACE ALL AROUND PIT APRON AND RUNWAYS.
- 2. CONCRETE SLAB WITH 4X4 10/10 W.W.F. REINFORCING.
- 3. A.B.C. FILL.
- 4. PAINT EXPOSED CONCRETE SURFACE WITH WHITE PAINT.
- 5. FINISH GRADE.

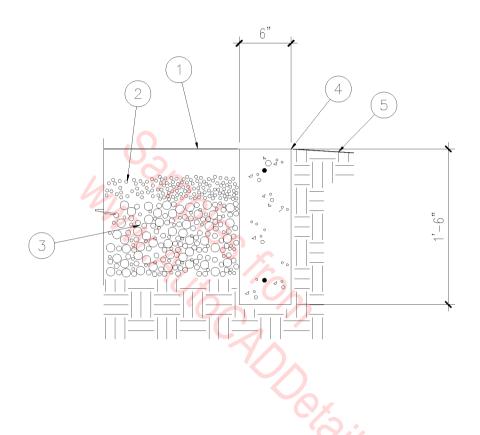
1" = 1'-0"

020-3007



- ALL WEATHER SYNTHETIC TRACK SURFACE.
   2 LAYERS ASPHALT CONCRETE PAVING.
   CONCRETE TURNDOWN.

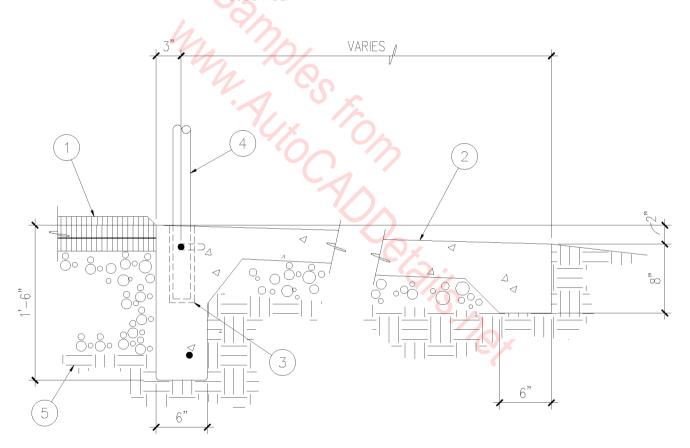
- 4. SUBGRADE.
  5. 6" CONCRETE CURB WITH (2) #4 REBARS CONTINUOUS.



- 3" DECOMPOSED GRANITE SURFACE COURSE.
   3" KEY COURSE.
   9" AGGREGATE BASE COURSE.
   6" X 1'-6" CONCRETE CURB WITH
   (2) #4 REBARS CONTINUOUS. FINISH GRADE.

NOTE: EXPANSION JOINTS AT 20'-0" O.C.

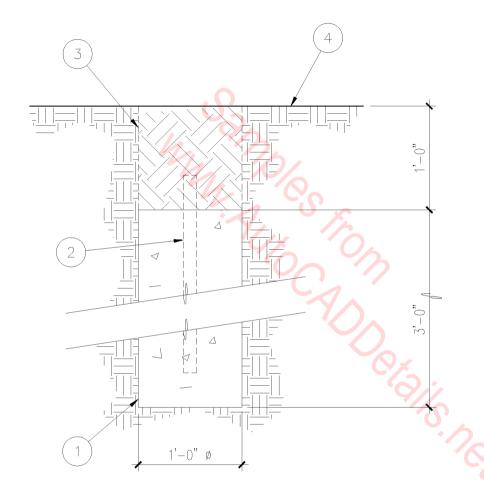
- 1. ALL WEATHER SYNTHETIC TRACK SURFACE OVER 2 LAYERS ASPHALT CONCRETE PAVING.
- 2. CONCRETE SIDEWALK WITH 6" X 1'-6"
  TURNDOWN AT TRACK SIDE AND
  6" X 8" THICKENED EDGE AT LAWN
  SIDE OVER SUBGRADE.
- 3. PIPE SLEEVE FOR FENCE POSTS.
  OFFSET CONTINUOUS REBAR AROUND EACH SLEEVE.
- 4. FENCE POST AT 10'-0" MAX. SPACING.
- 5. SUBGRADE.



SIDEWALK @ TRACK

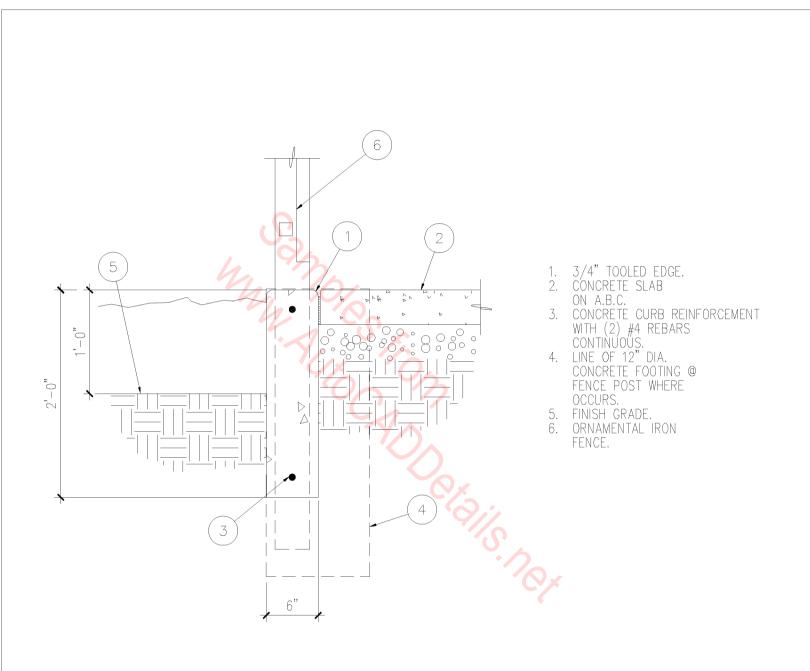
SCALE: 1" = 1'-0"

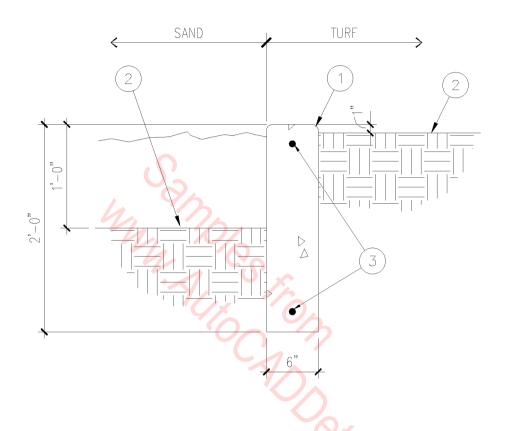
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- 1. 12" DIA. CONCRETE FOOTING.

  2. 1 1/2" DIA. GALVANIZED STEEL RIGID CONDUIT.
- 3. EARTH AND TURF FILL OVER CONDUIT AFTER ALL LAYOUT WORK IS COMPLETED.
- 4. FINISH GRADE.

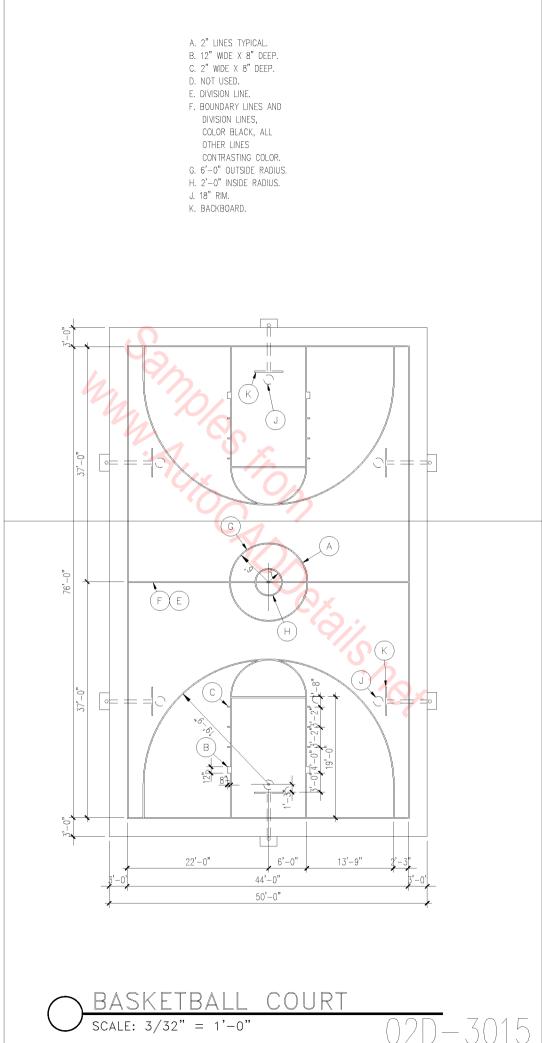


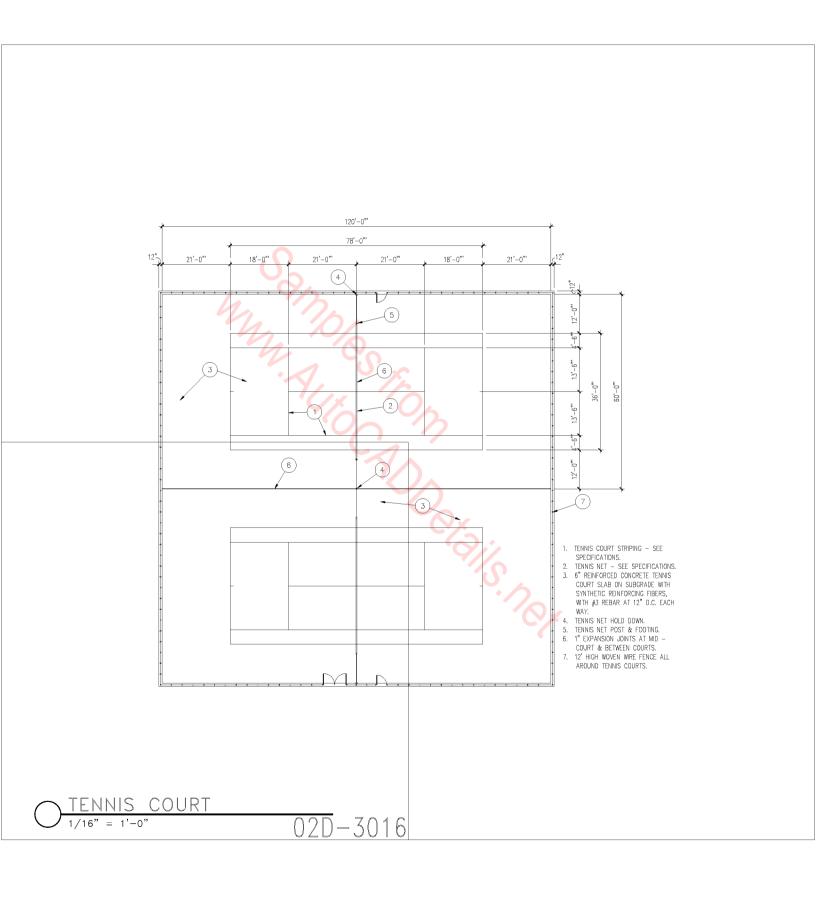


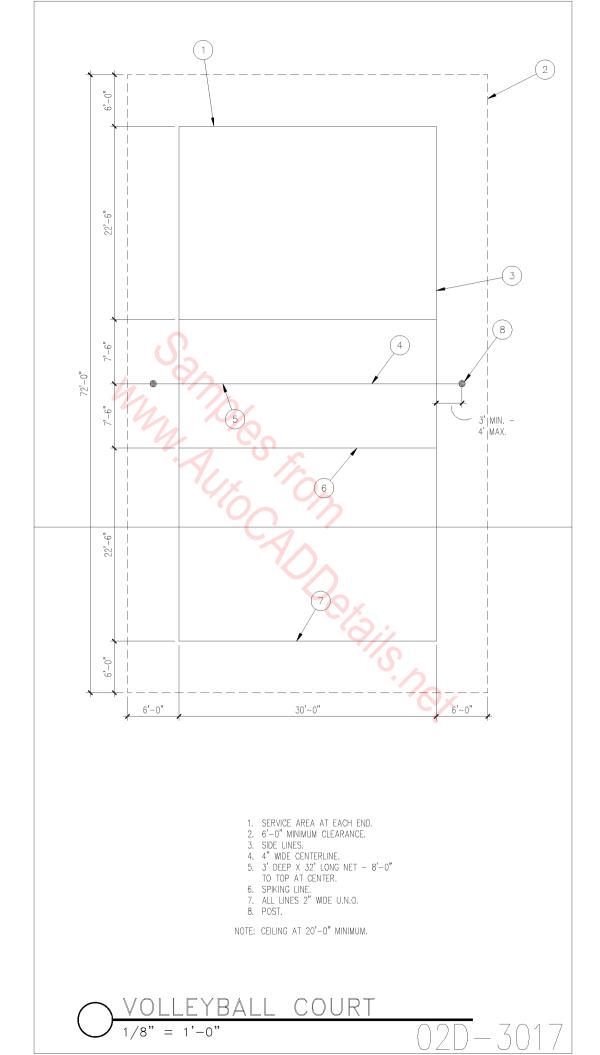
- 3/4" TOOLED EDGE.
   FINISH GRADE.
   CONCRETE CURB REINFORCEMENT WITH (2) #4 REBARS CONTINUOUS.
- 4. SAND.
- 5. TURF.

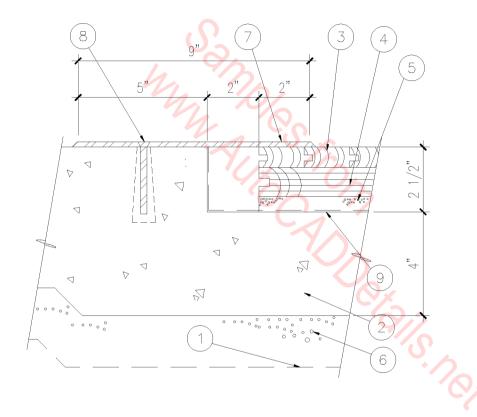
020-3013

PHYSICAL EDUCATION COURT LAYOUT NOTES A. 2" BLUE LINE - 24' DIA. B. 2" RED LINE - 36' DIA. C. 2" YELLOW LINE. D. 2" BLACK LINE. E. FACE OF WALL. 12'-0" 6'-0" 6'-0" 6'-0" 15,-0,, (E) (E) (D)8'-3" 8'-3" 4'-10 1/2" BADMINTON VOLLEYBALL COURT SCALE: 1/8" = 1'-0"







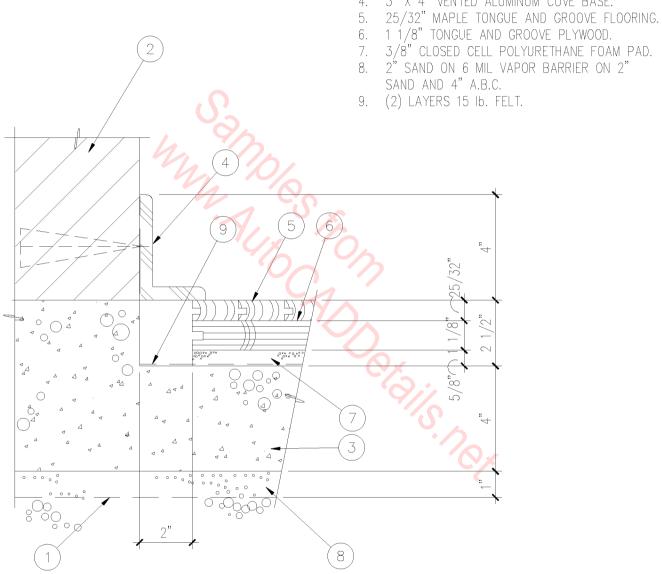


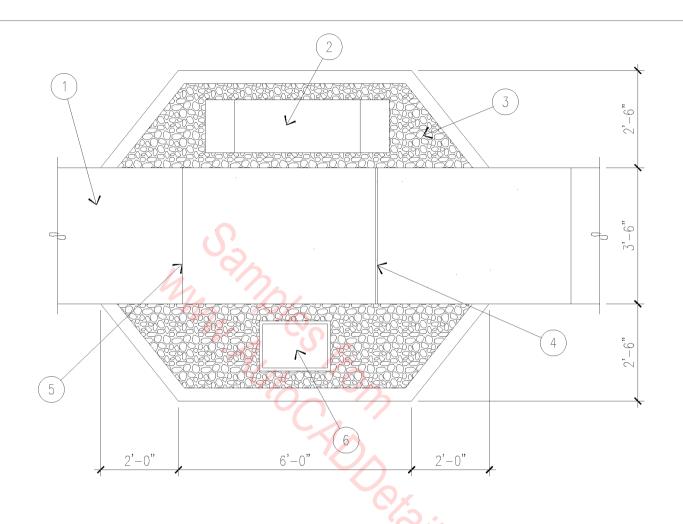
- 1. VAPOR BARRIER. LAP AND SEAL CONTINUOUS WITH 3" PLASTIC TAPE.
- 2. CONCRETE SLAB.
- 3. GYMNASIUM WOOD FLOORING SYSTEM.
- 4. 2-LAYERS, 1/2" CDX PLYWOOD.
- 5. 3/8" CLOSED CELL POLYURETHANE FOAM PAD. 6. 4" SAND FILL.
- 7. 1/8" STAINLESS STEEL PLATE WITH BEVELED EDGES.
- 8. COUNTERSUNK FLAT HEAD FASTENERS
- @ 12" O.C. 9. (2) LAYER 15# FELT.

SCALE: 3'' = 1' - 0''

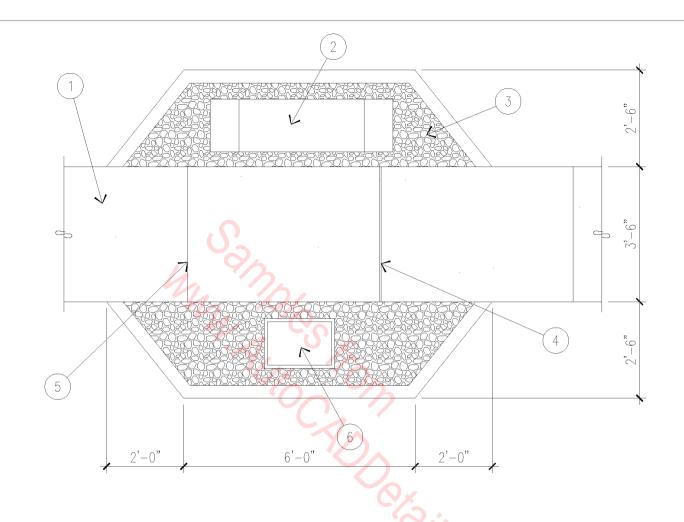


- MASONRY WALL.
- 4" CONCRETE SLAB.
  3" X 4" VENTED ALUMINUM COVE BASE.



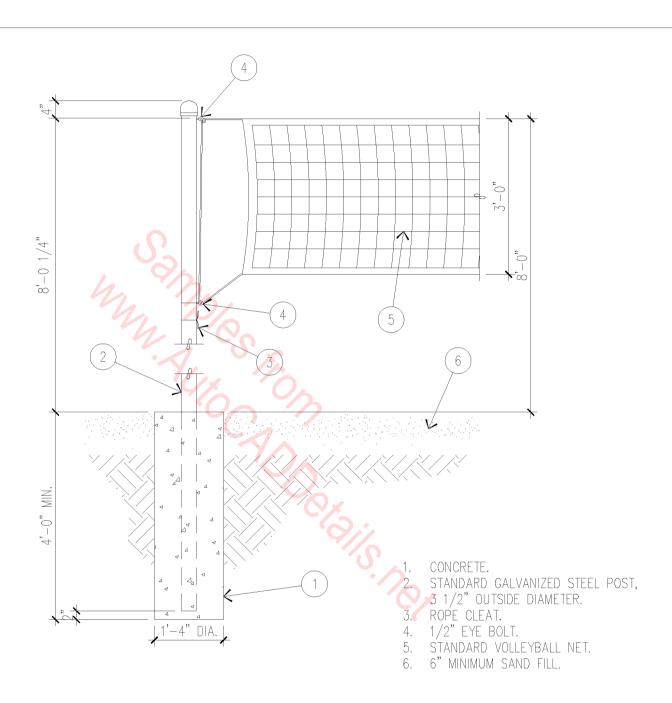


- 1. 4" CONCRETE WALK WITH MEDIUM ROCK SALT FINISH.
- 2. PRECAST CONCRETE BENCH.
- 3. DECOMPOSED GRANITE SEE LANDSCAPE PLAN.
- 4. EXPANSION JOINT AT 25'-0" O.C.
- 5. CONTROL JOINT SET AT 5'-0" O.C.
- 6. CHARCOAL BAR-B-QUE.



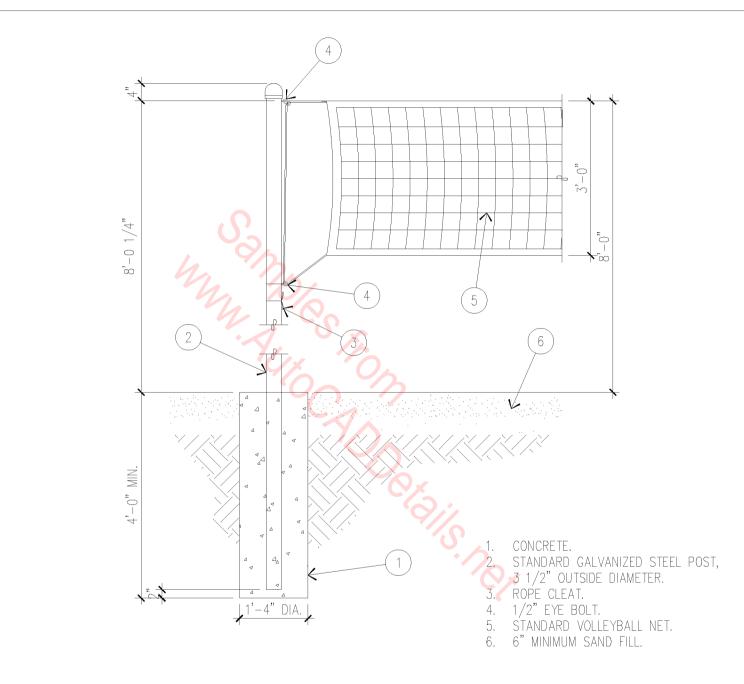
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- 5. CONTROL JOINT SET AT 5'-0" O.C.
- 6. CHARCOAL BAR-B-QUE.

3/8" = 1'-0"



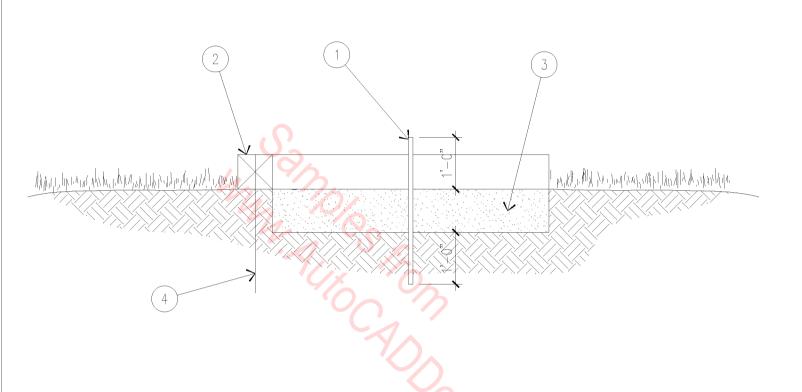
VOLLEYBALL NET AND POST

1/2" = 1'-0"



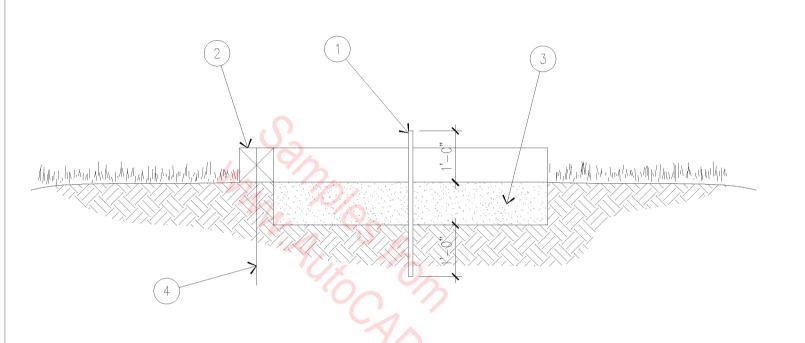
VOLLEYBALL NET AND POST

1/2" = 1'-0"



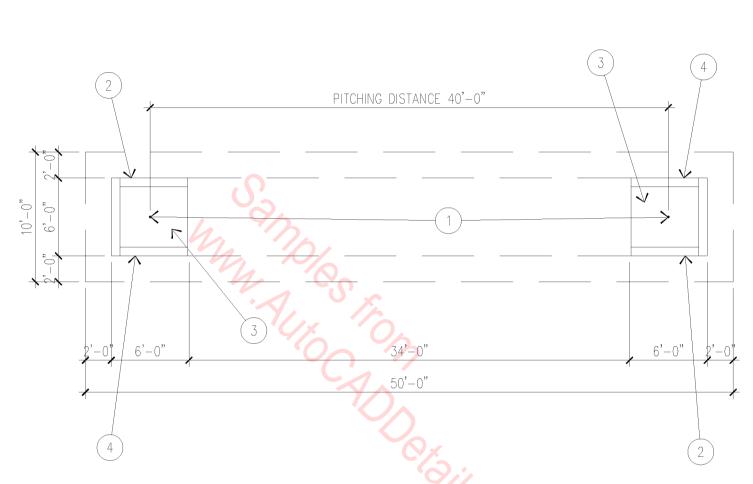
- 1. 1" DIAMETER STEEL PEG, 1'-0" HIGH.
   2. PRESSURE TREATED 8X8 TIMBER.
   3. SAND FILL.

- 4. (3) #4 REBAR 2'-0" INTO GROUND FOR EACH TIMBER.



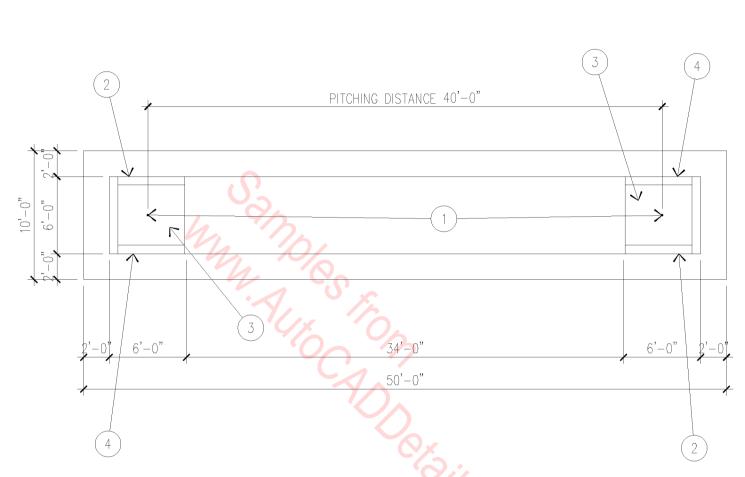
- 1" DIAMETER STEEL PEG, 1'-0" HIGH.
   PRESSURE TREATED 8X8 TIMBER.
   SAND FILL.
   (3) #4 REBAR 2'-0" INTO GROUND FOR EACH TIMBER.

= 1'-0"



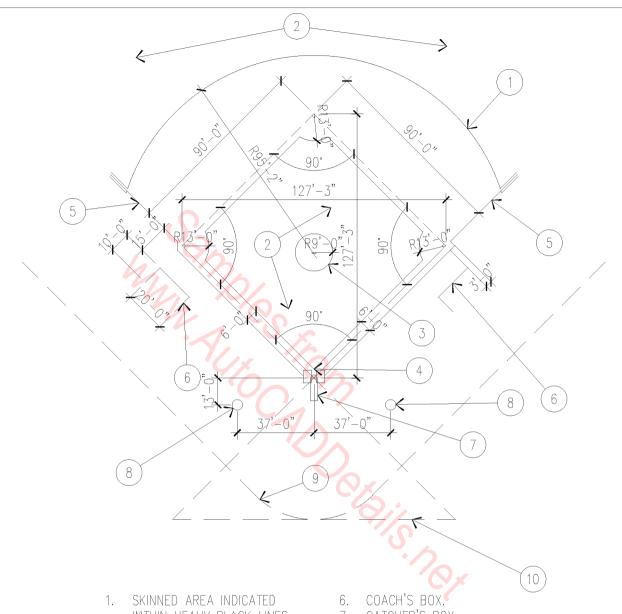
- 1. 1" DIAMETER STEEL PEG, 1'-0" HIGH.
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- 1" DIAMETER STEEL PEG, 1'-0" HIGH.
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   SAND FILL.
   (3) #4 REBAR 2'-0" INTO GROUND FOR EACH TIMBER.

= 1'-0"

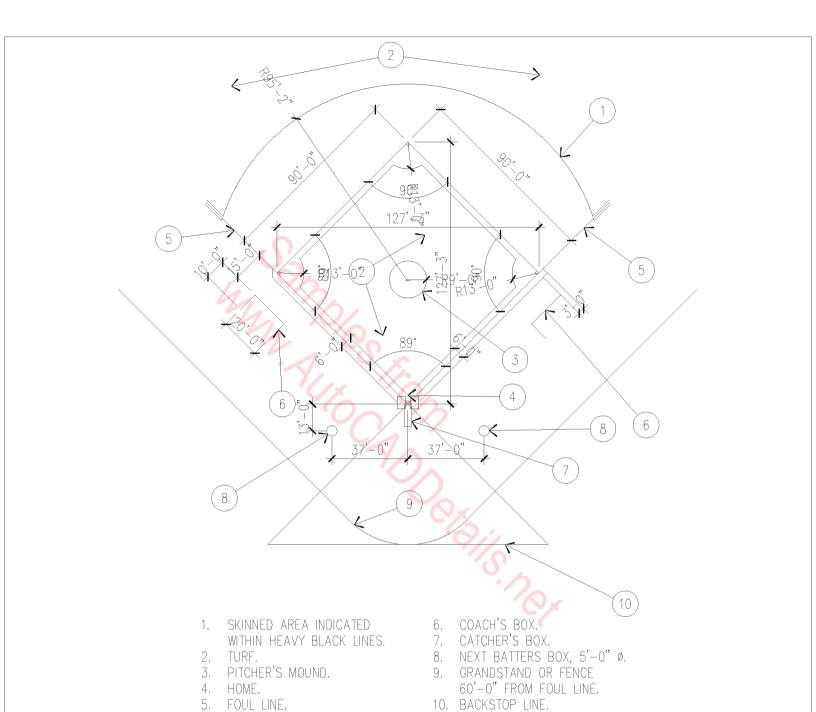


- WITHIN HEAVY BLACK LINES.
- TURF.
- PITCHER'S MOUND.
- 4. HOME.
- FOUL LINE.

- CATCHER'S BOX.
- NEXT BATTERS BOX, 5'-0" Ø.
- GRANDSTAND OR FENCE 60'-0" FROM FOUL LINE. 10. BACKSTOP LINE.

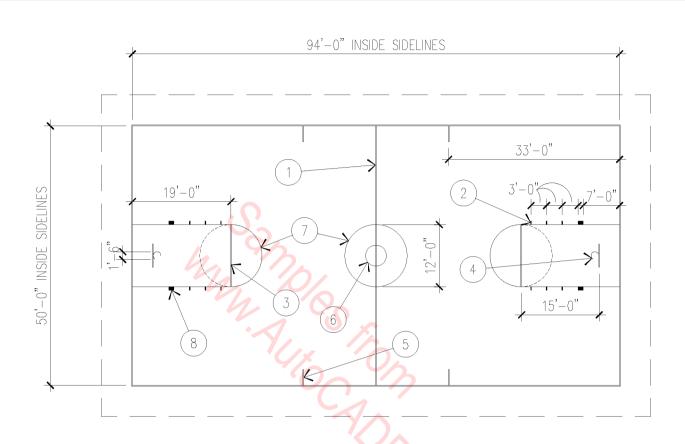
= 50'-0"

-3024



1" = 50'-0"

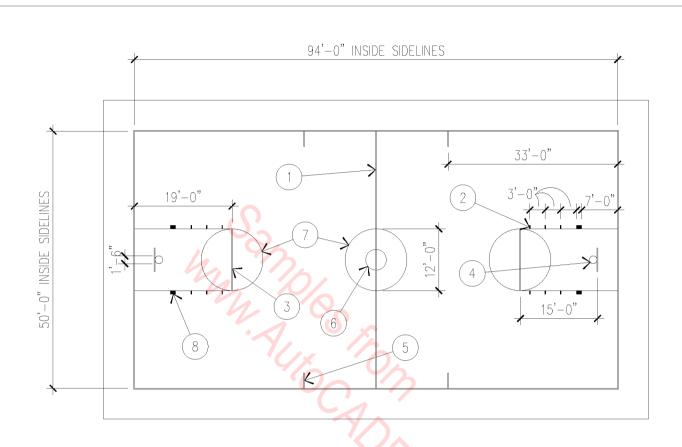
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- DIVISION LINE. 2" WIDE BY 8" DEEP. 2.
- 3. FREE THROW LINE.
- BASKET.
- 2" WIDE BY 3'-0" DEEP 2'-0" RADIUS. 6'-0" RADIUS. 12" WIDE BY 8" DEEP. 5.
- 7.

NOTE: ALL PAINTED LINES TO BE 2" WIDE.

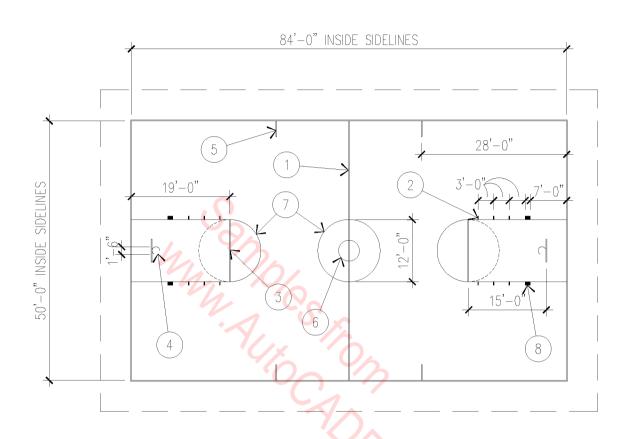
= 20'-0"



- DIVISION LINE. 2" WIDE BY 8" DEEP. 2. 3.
- FREE THROW LINE.
- BASKET.
- 2" WDE BY 3'-0" DEEP 2'-0" RADIUS. 6'-0" RADIUS. 12" WDE BY 8" DEEP.
- 6.
- 7.

NOTE: ALL PAINTED LINES TO BE 2" WIDE.

= 20'-0"

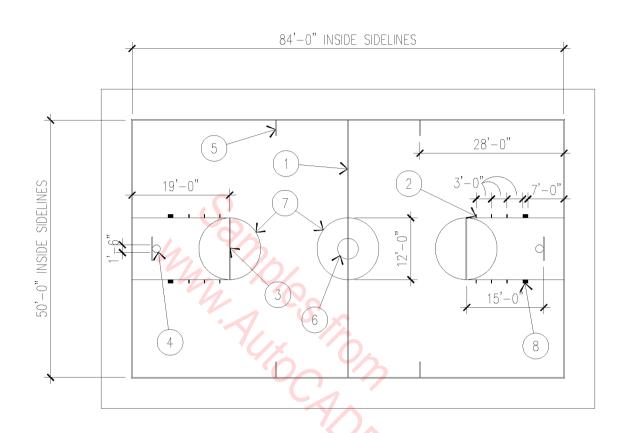


- DIVISION LINE. 2" WIDE BY 8" DEEP.
- FREE THROW LINE.
- BASKET.

- 7.
- 2" WIDE BY 3'-0" DEEP 2'-0" RADIUS. 6'-0" RADIUS. 12" WIDE BY 8" DEEP.

NOTE: ALL PAINTED LINES TO BE 2" WIDE.

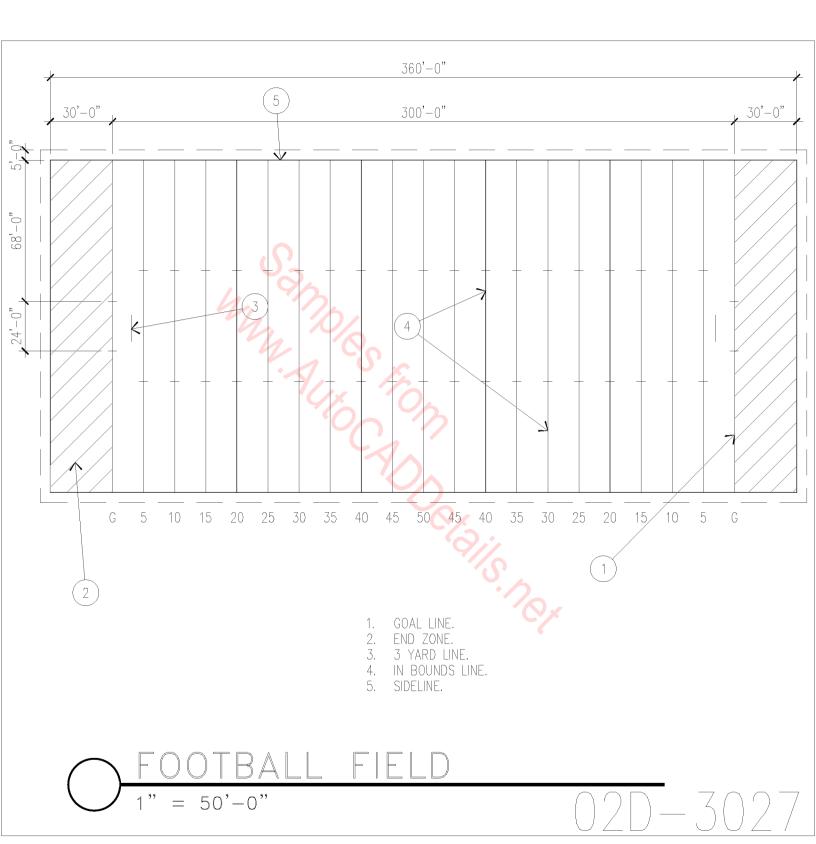
= 20'-0"

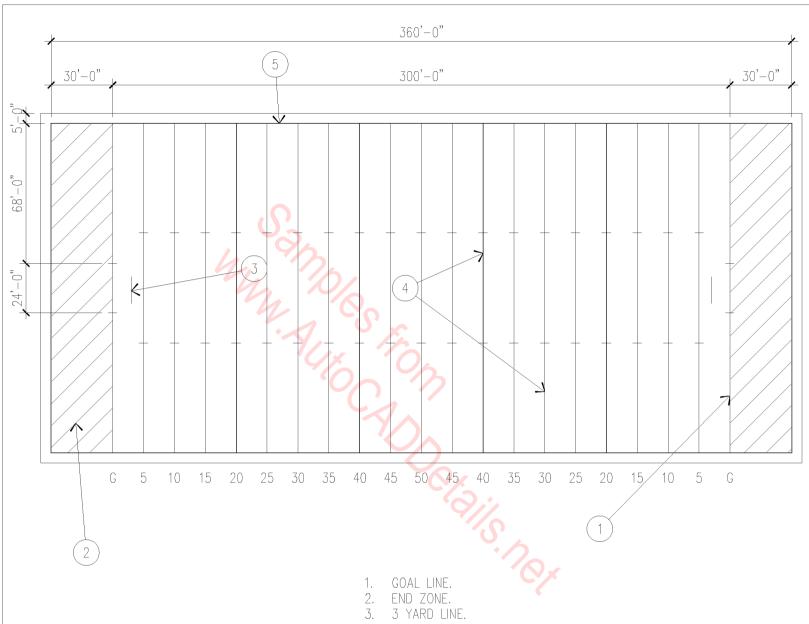


- DIVISION LINE. 2" WIDE BY 8" DEEP. 2.
- FREE THROW LINE.
- BASKET.
- 2" WIDE BY 3'-0" DEEP 2'-0" RADIUS. 6'-0" RADIUS. 12" WIDE BY 8" DEEP.
- 6.
- 7.

 $\begin{array}{ccc} \underline{\text{NOTE:}} & \text{ALL PAINTED LINES TO} \\ & \text{BE 2" WIDE.} \end{array}$ 

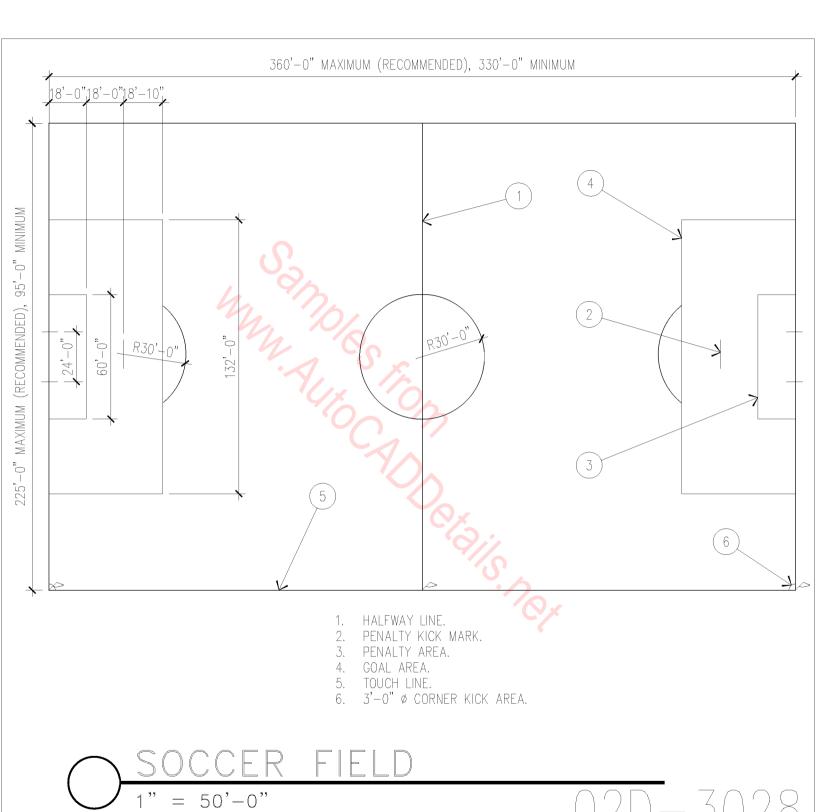
= 20'-0"

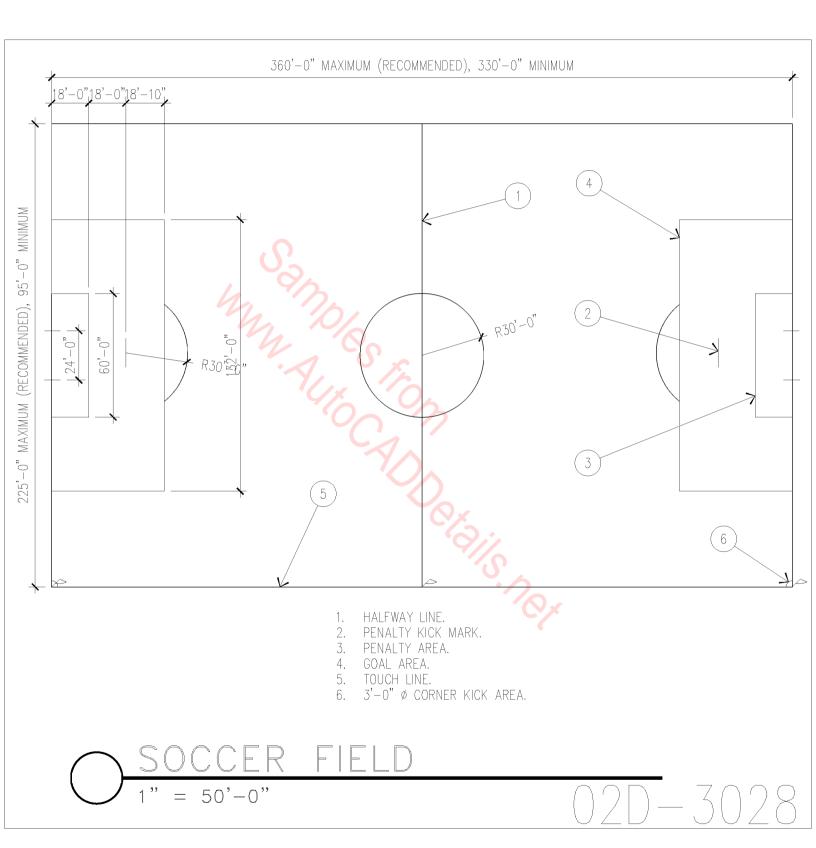


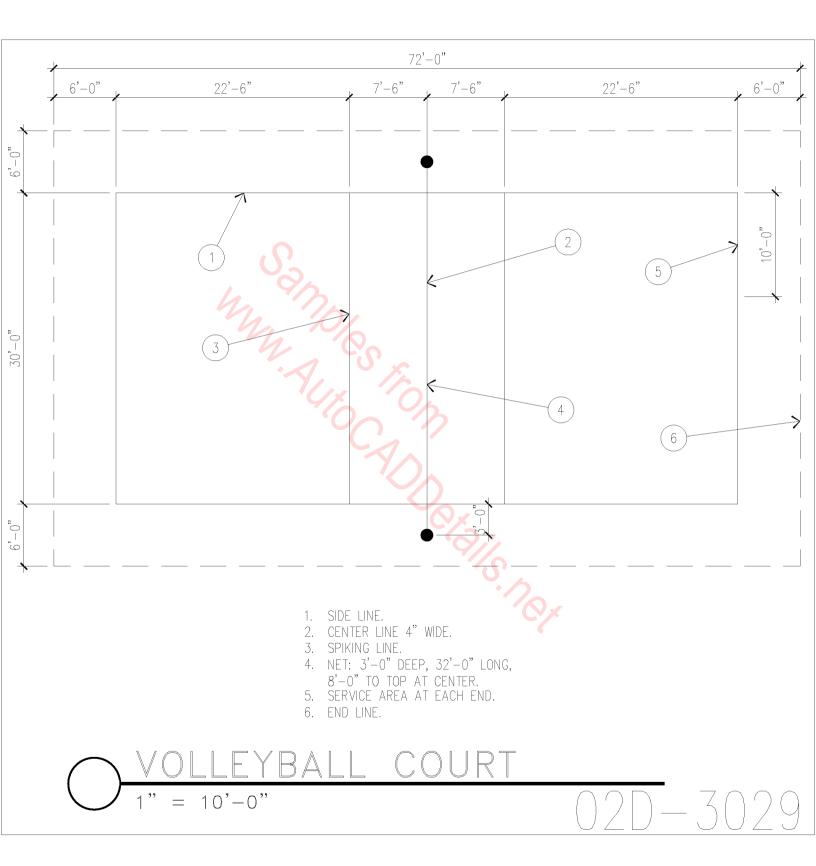


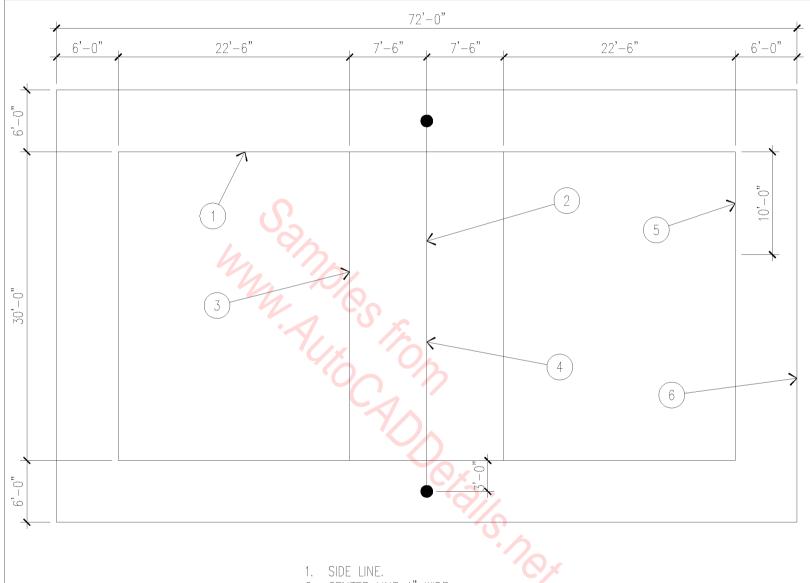
- IN BOUNDS LINE.
- SIDELINE.

= 50'-0"







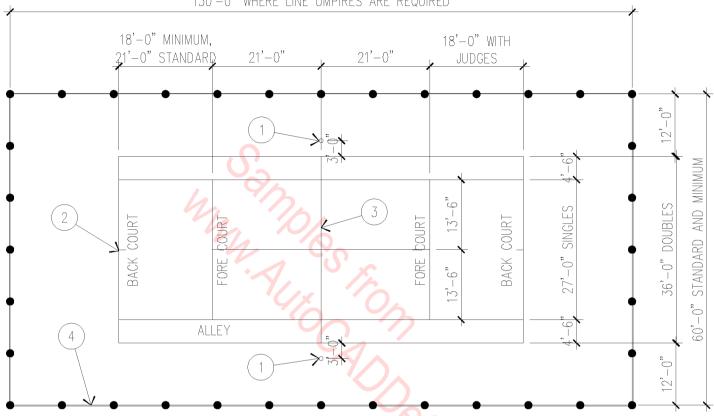


- 2. CENTER LINE 4" WIDE.
- 3. SPIKING LINE.
- 4. NET: 3'-0" DEEP, 32'-0" LONG, 8'-0" TO TOP AT CENTER.

  5. SERVICE AREA AT EACH END.
- 6. END LINE.

= 10'-0"

120'-0" MINIMUM FOR CHAMPIONSHIP PLAY, 130'-0" WHERE LINE UMPIRES ARE REQUIRED



- 1. POST.
- 2. CENTER MARK.
- 3. NET: 3'-0" AT CENTER, 3'-6" AT POSTS.
- 4. FULL ENCLOSURE CHAIN LINK FENCE AT 10'-0" HIGH.

### NOTES:

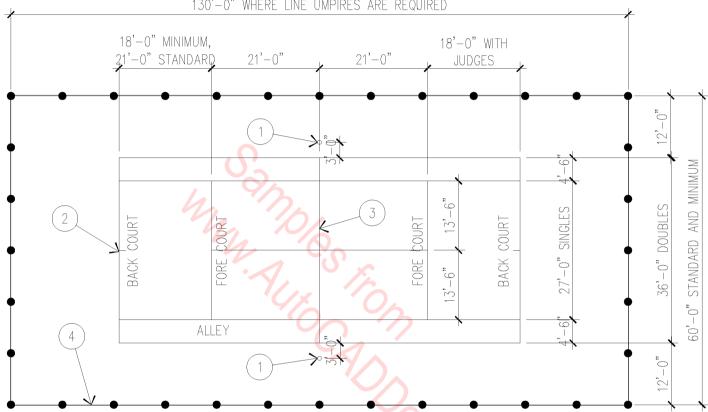
- A. DIMENSIONS GIVEN TO OUTSIDE OF LINES EXCEPT CENTER LINE.
- B. LINES 2" WIDE EXCEPT BASE LINE MAY BE 4" WIDE.
- C. DISTANCE TO ADJACENT COURT TO BE 16'-0" FOR CHAMPIONSHIP PLAY, 12'-0" MINIMUM.

# TENNIS COURT

1" = 20'-0"

02D - 3030





- 1. POST.
- 2. CENTER MARK.
- 3. NET: 3'-0" AT CENTER, 3'-6" AT POSTS.
- 4. FULL ENCLOSURE CHAIN LINK FENCE AT 10'-0" HIGH.

## NOTES:

- A. DIMENSIONS GIVEN TO OUTSIDE OF LINES
- EXCEPT CENTER LINE.

  B. LINES 2" WIDE EXCEPT BASE LINE MAY BE 4" WIDE.
- C. DISTANCE TO ADJACENT COURT TO BE 16'-0" FOR CHAMPIONSHIP PLAY, 12'-0" MINIMUM.

