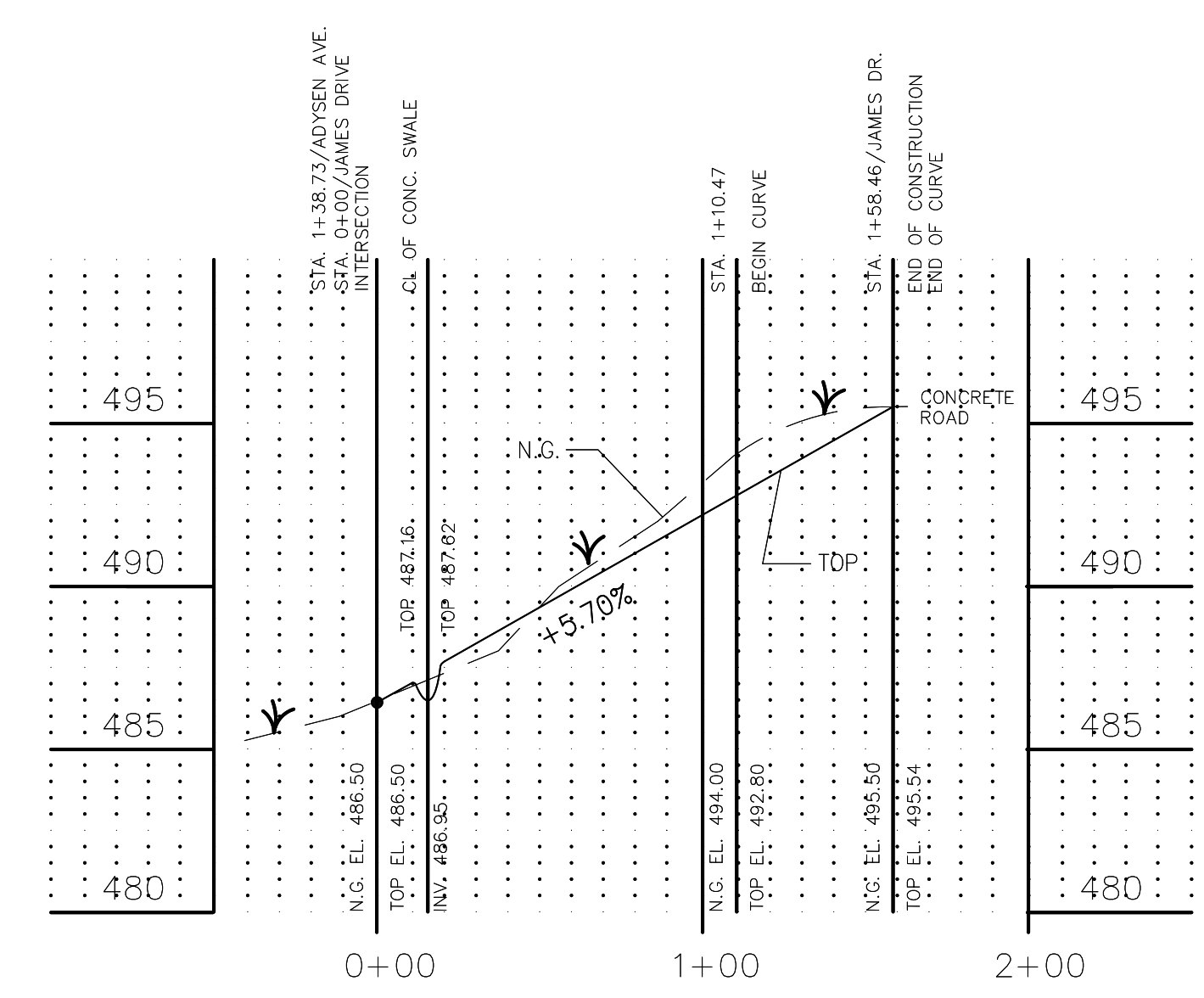
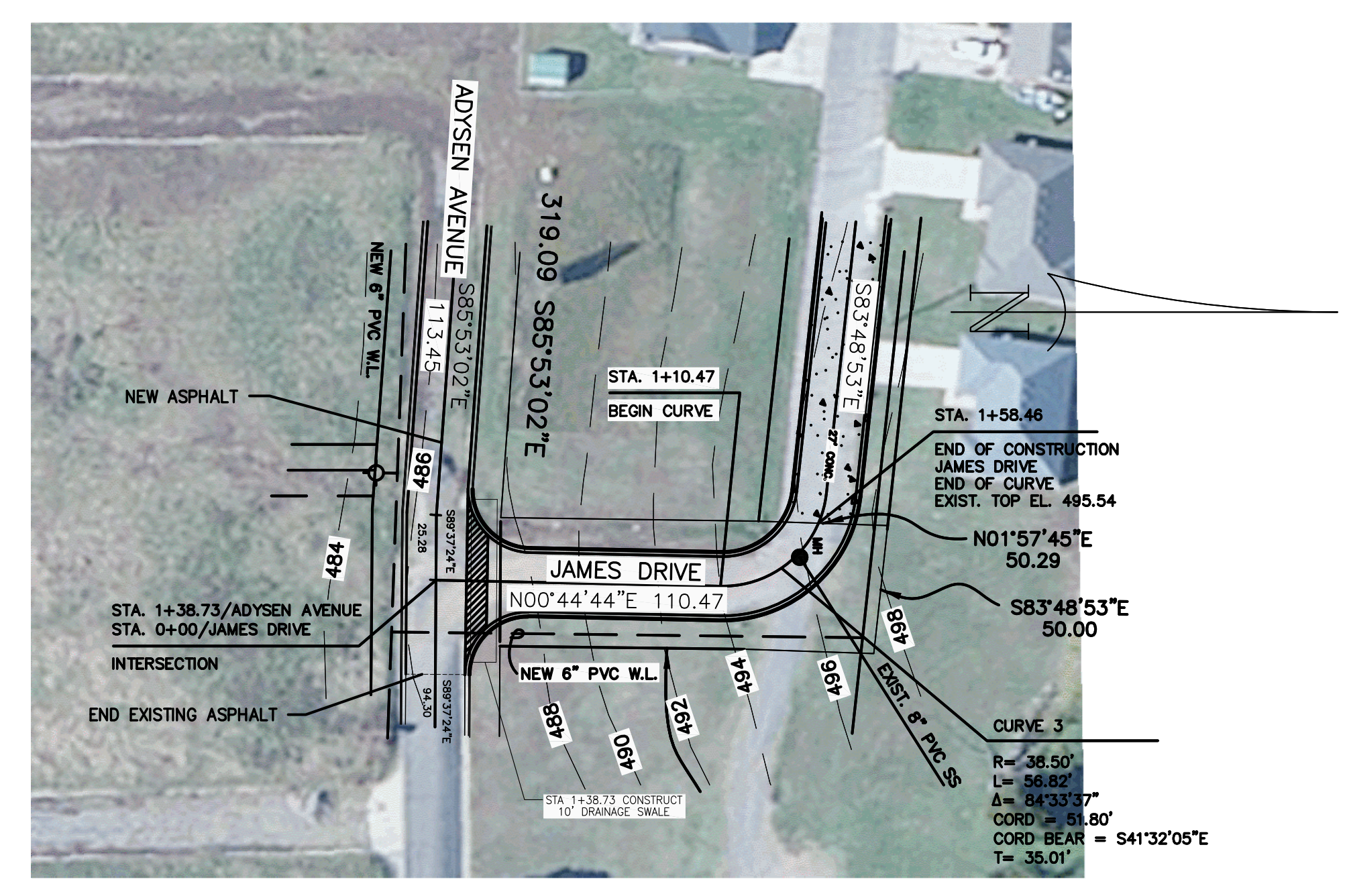


STREET PLAN AND PROFILE

COWAN ESTATES  
 LOTS 38-64  
 ROLAND, OKLAHOMA

CHEROKEE NATION  
 HOUSING AUTHORITY  
 TAHLEQUAH, OKLAHOMA



PLAN & PROFILE

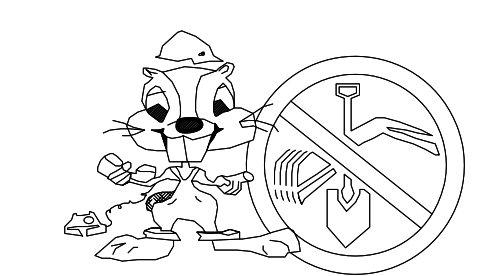
SCALE: HORZ. : 1" = 50'  
 VERT. : 1" = 5'

LEGEND

- EXISTING ASPHALT/CURB AND GUTTER
- PROPOSED ASPHALT/CURB AND GUTTER
- - - PROPOSED WATERLINE
- EXISTING WATERLINE
- - - PROPOSED SEWERLINE
- EXISTING SEWERLINE
- NEW FIRE HYDRANT
- EXISTING FIRE HYDRANT
- NEW MANHOLE
- EXISTING MANHOLE
- ⊠ VALVE
- POWER POLE (PP)
- WATER METER (WM)
- △ SIGN
- TOP— TOP OF PAVEMENT
- TREE TO REMAIN IN PLACE

NOTE:  
 1. CONTRACTOR SHALL REMOVE ALL EXISTING ASPHALT AND BASE COURSE MATERIAL AND DISPOSE OFF SITE.  
 2. CONTRACTOR SHALL REMOVE A MINIMUM OF 12" OF EXISTING SUBGRADE SOIL AND REPLACE WITH SELECT MATERIAL BACKFILL, PLACE ASPHALT TO 95% MODIFIED DENSITY.  
 3. ALL EXISTING CURB AND GUTTERS WILL NOT BE REMOVED AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH PROFILE TO MATCH EXISTING GRADE.

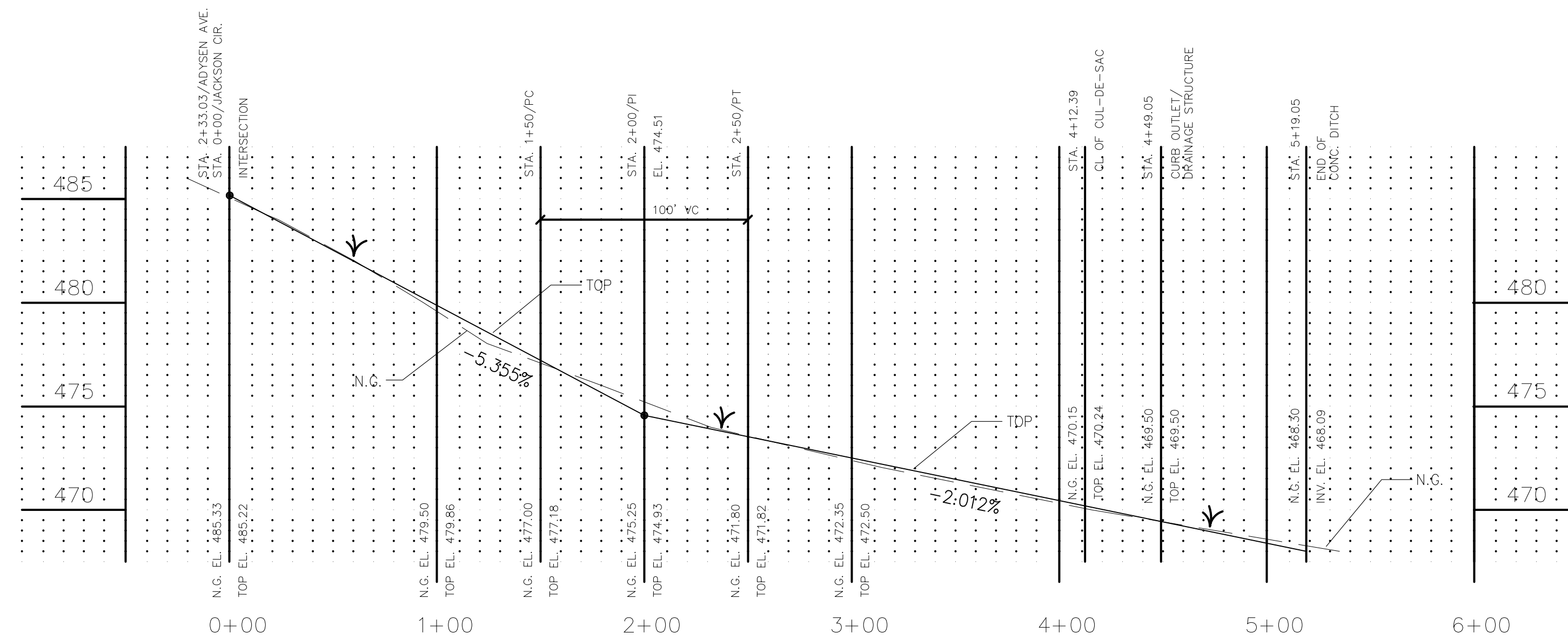
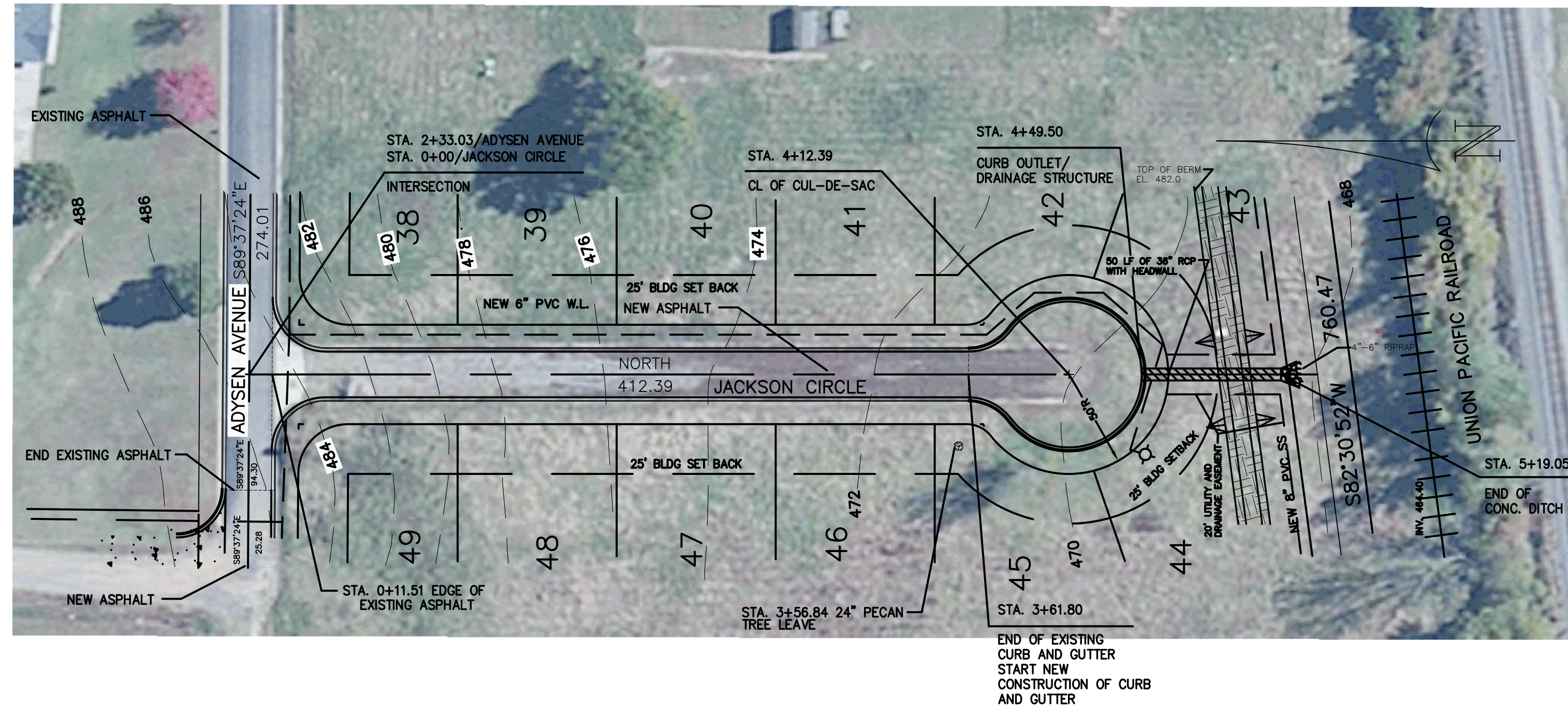
\*\* CONTRACTOR MUST INSTALL BALE BARRIERS AND SILT FENCES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THIS WILL MINIMIZE STORM WATER FLOW, EROSION AND SILT FROM LEAVING SITE.



BEFORE YOU DIG...  
 1-800-522-6543

PRIOR TO PERFORMING ANY GRADING OR EXCAVATING WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND "CALL OKIE (OKLAHOMA ONE-CALL)" NOT LESS THAN 48 HOURS IN ADVANCE AND SHALL VERIFY OR ESTABLISH THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND LINES.





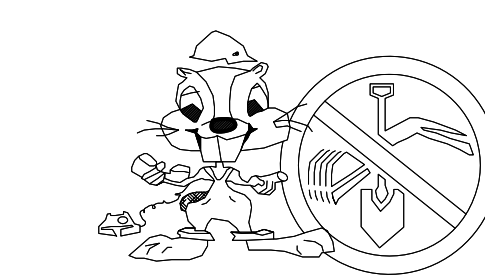
- LEGEND**
- EXISTING ASPHALT/CURB AND GUTTER
  - - - PROPOSED ASPHALT/CURB AND GUTTER
  - - - PROPOSED WATERLINE
  - EXISTING WATERLINE
  - - - PROPOSED SEWERLINE
  - EXISTING SEWERLINE
  - NEW FIRE HYDRANT
  - EXISTING FIRE HYDRANT
  - NEW MANHOLE
  - EXISTING MANHOLE
  - ⊠ VALVE
  - POWER POLE (PP)
  - WATER METER (WM)
  - △ SIGN
  - TOP- TOP OF PAVEMENT
  - TREE TO REMAIN IN PLACE

# PLAN & PROFILE

SCALE: HORZ. : 1" = 50'  
VERT. : 1" = 5'

**NOTE:**  
1. CONTRACTOR SHALL REMOVE ALL EXISTING ASPHALT AND BASE COURSE MATERIAL AND DISPOSE OFF SITE.  
2. CONTRACTOR SHALL REMOVE A MINIMUM OF 12" OF EXISTING SUBGRADE SOIL AND REPLACE WITH SELECT MATERIAL BACKFILL, PLACE ASPHALT TO 95% MODIFIED DENSITY.  
3. ALL EXISTING CURB AND GUTTERS WILL NOT BE REMOVED AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH PROFILE TO MATCH EXISTING GRADE.

CONTRACTOR MUST INSTALL BALE BARRIERS AND SILT FENCES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THIS WILL MINIMIZE STORM WATER FLOW, EROSION AND SILT FROM LEAVING SITE.



PRIOR TO PERFORMING ANY GRADING OR EXCAVATING WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND "CALL OKIE (OKLAHOMA ONE-CALL)" NOT LESS THAN 48 HOURS IN ADVANCE AND SHALL VERIFY OR ESTABLISH THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND LINES.

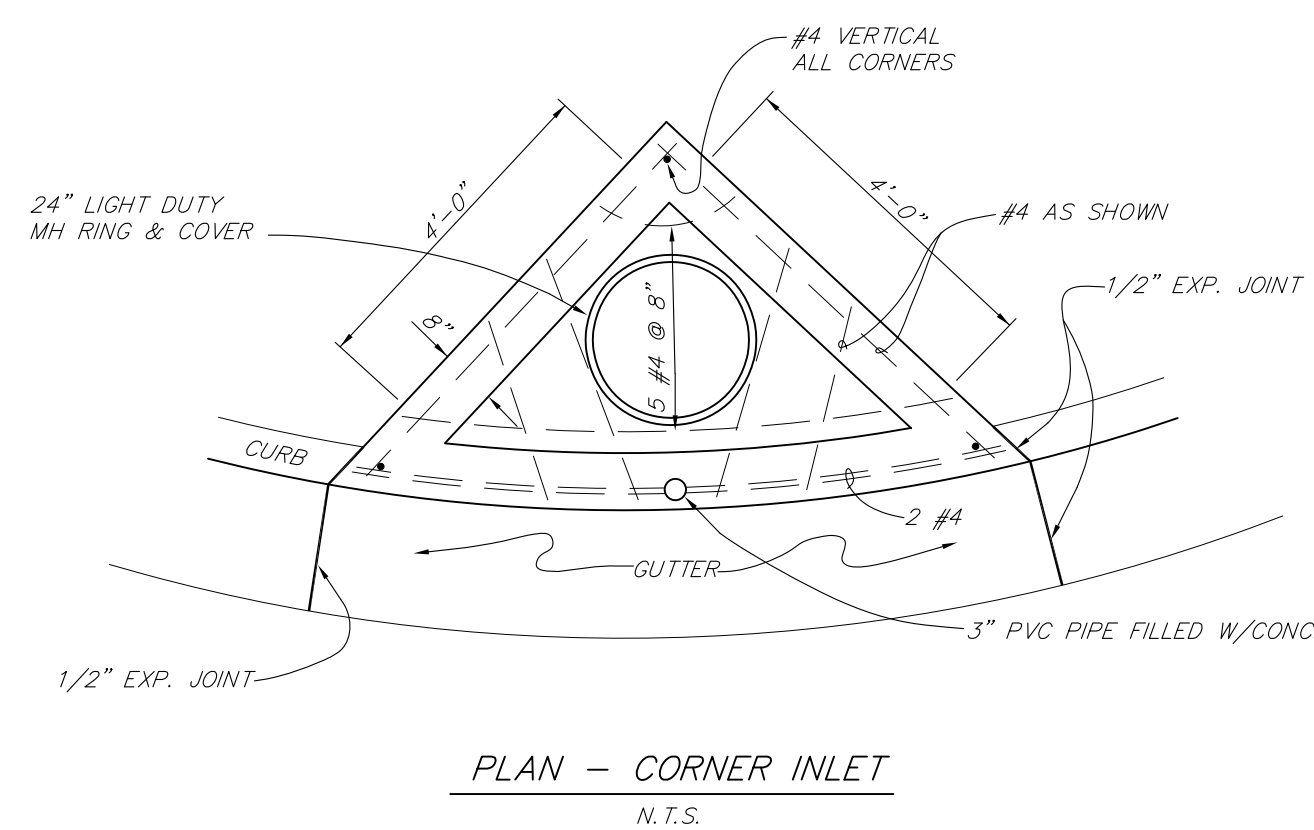




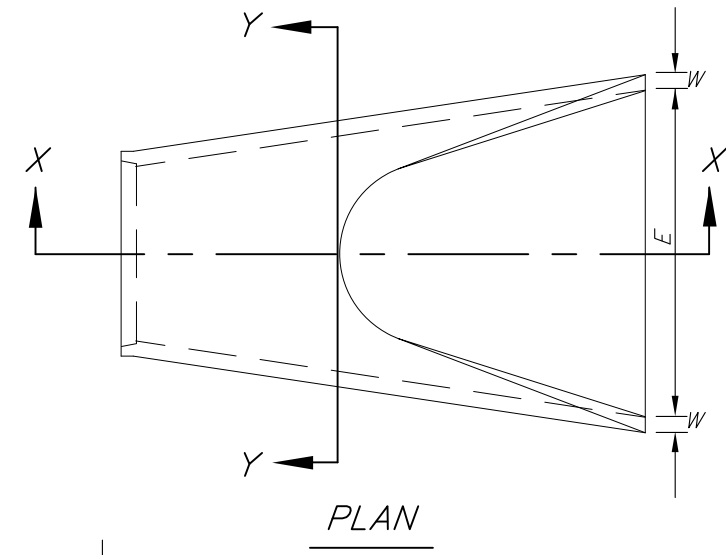




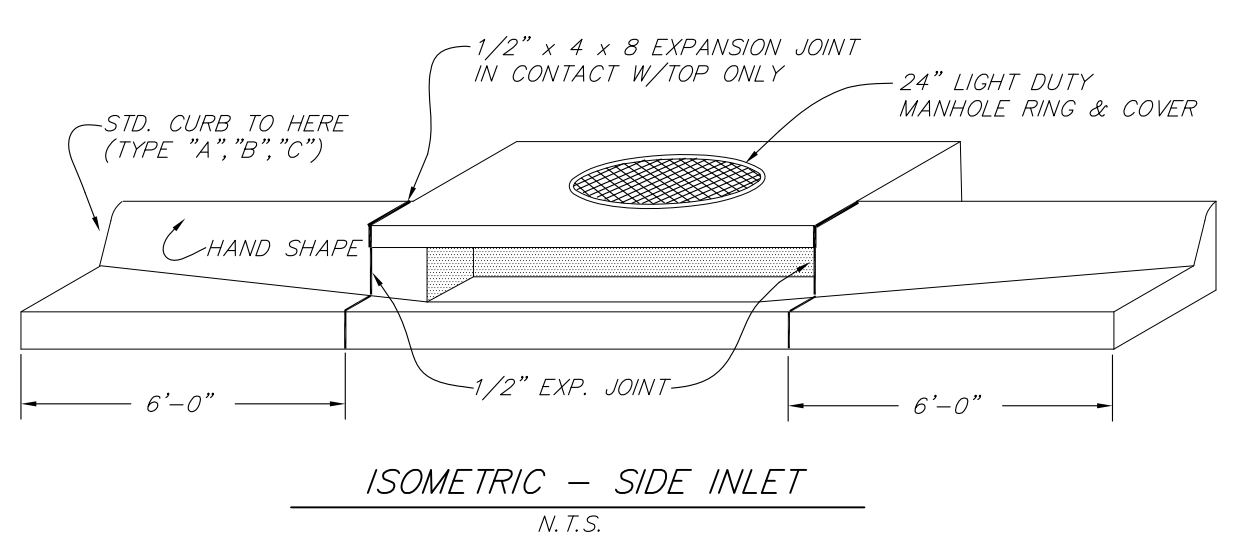
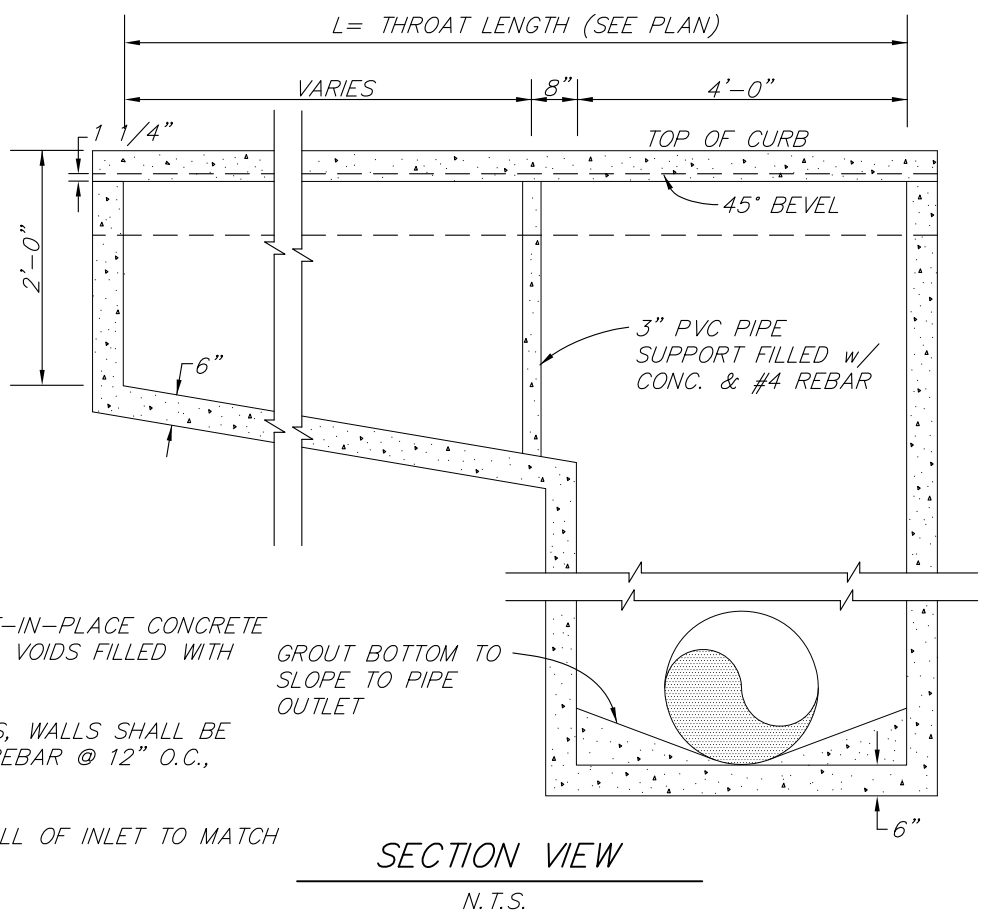
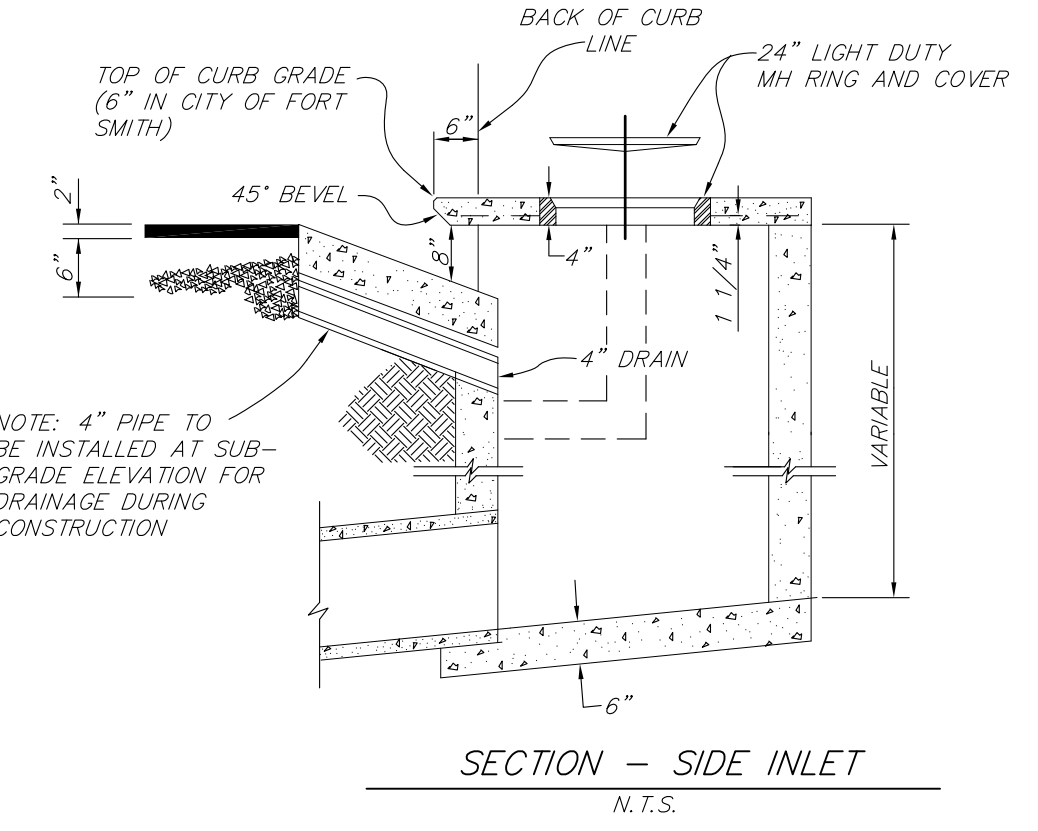
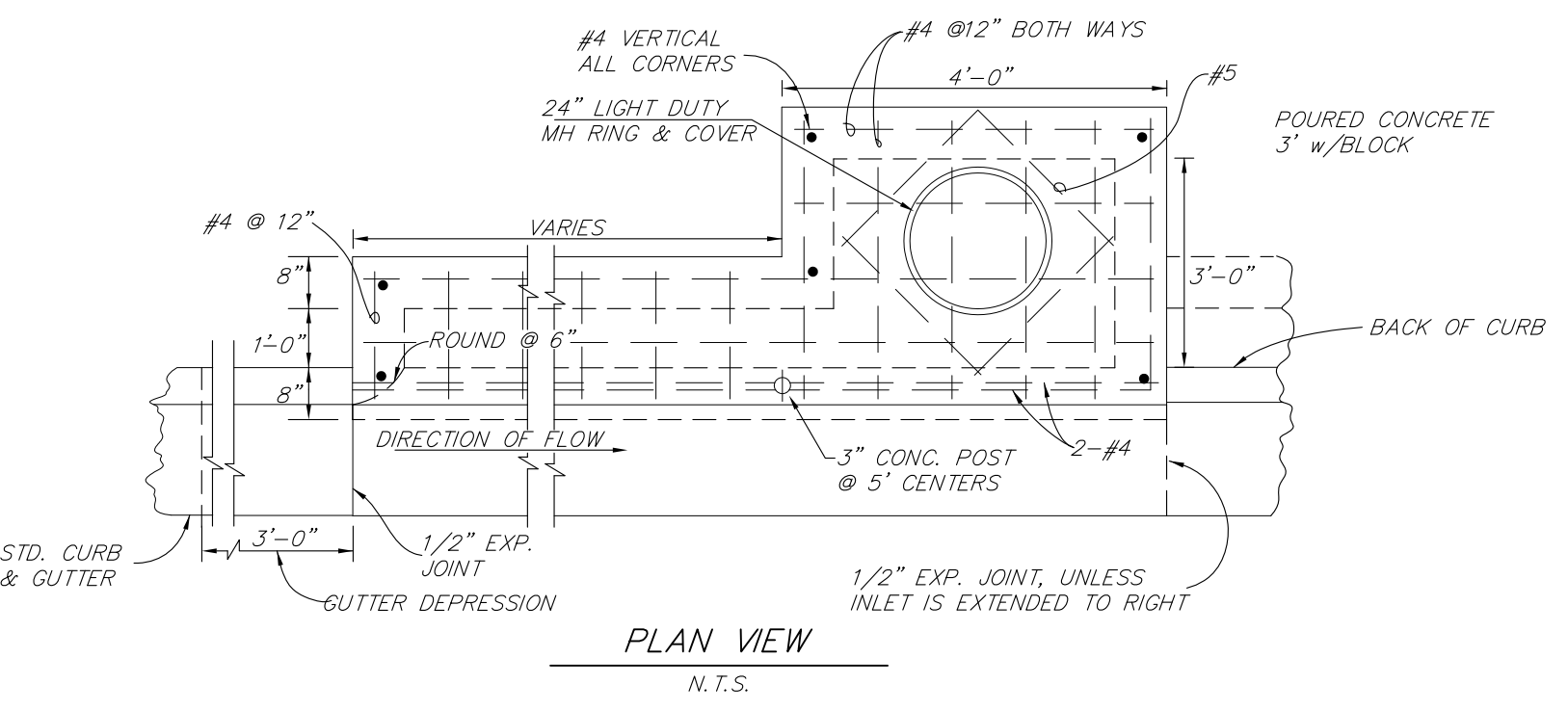
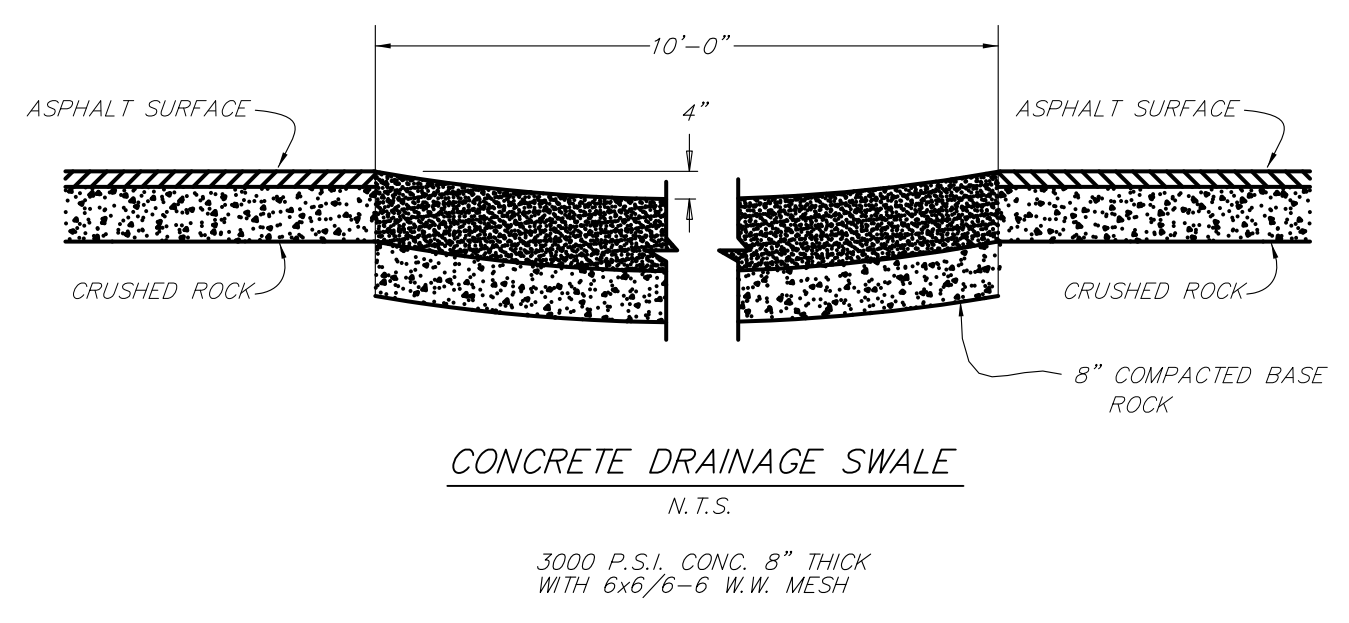
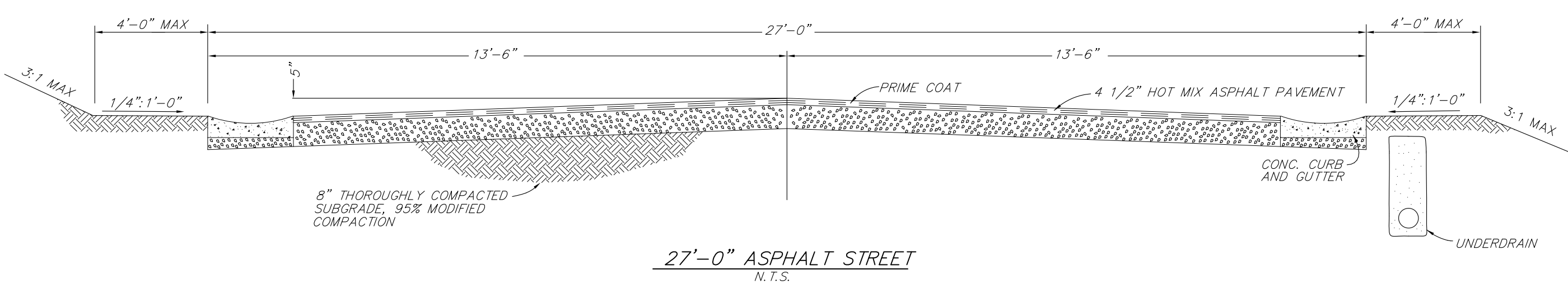
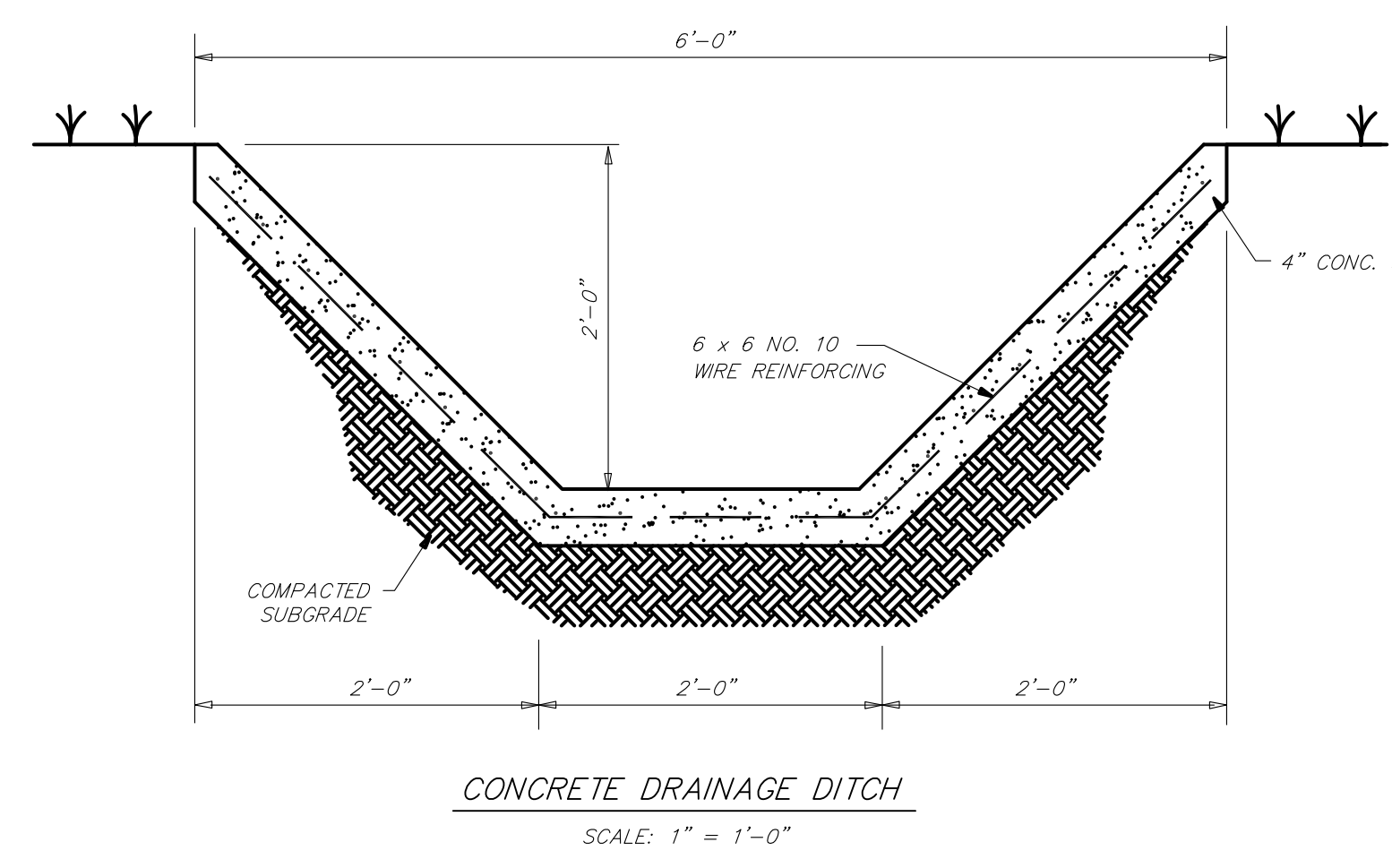
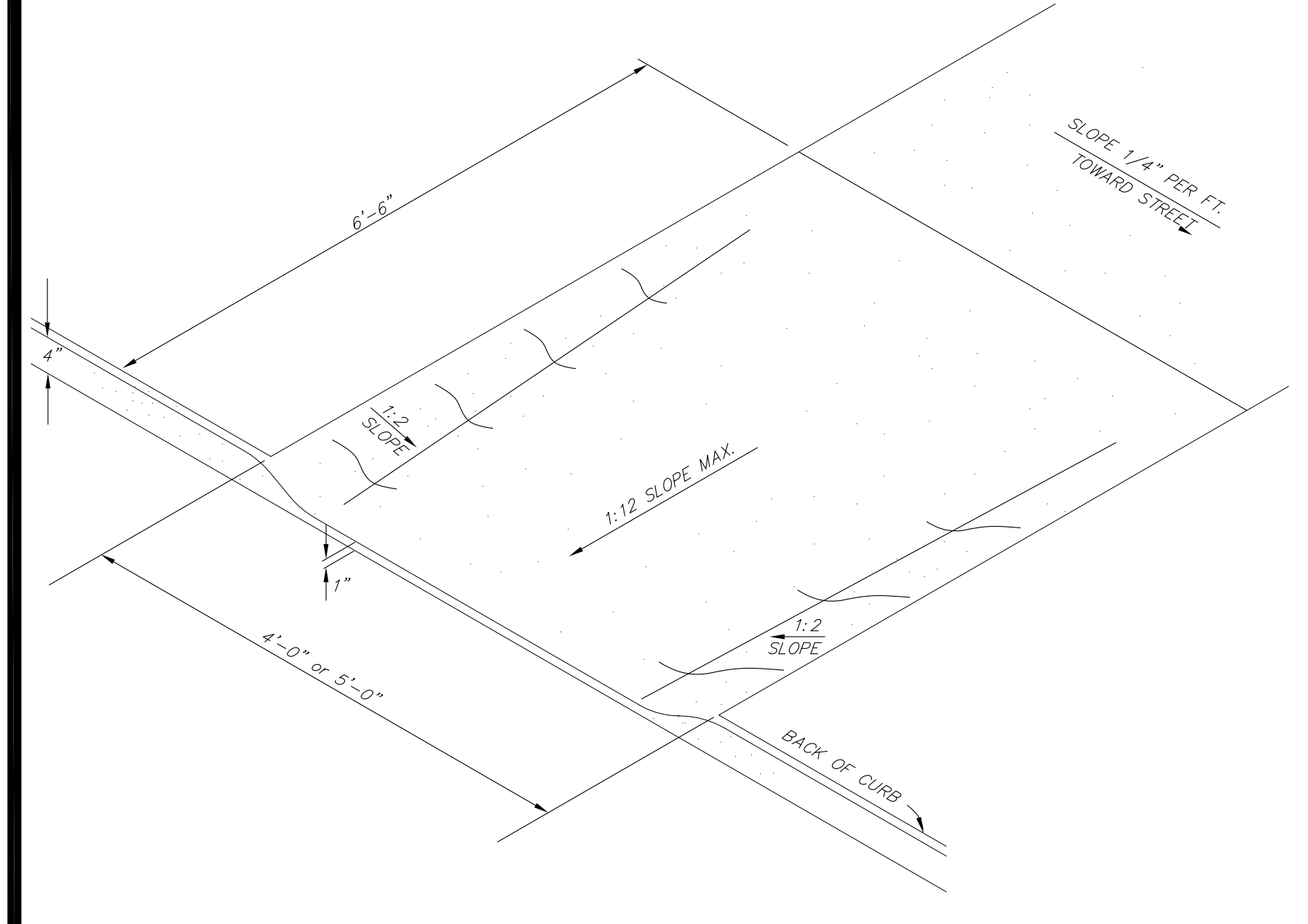
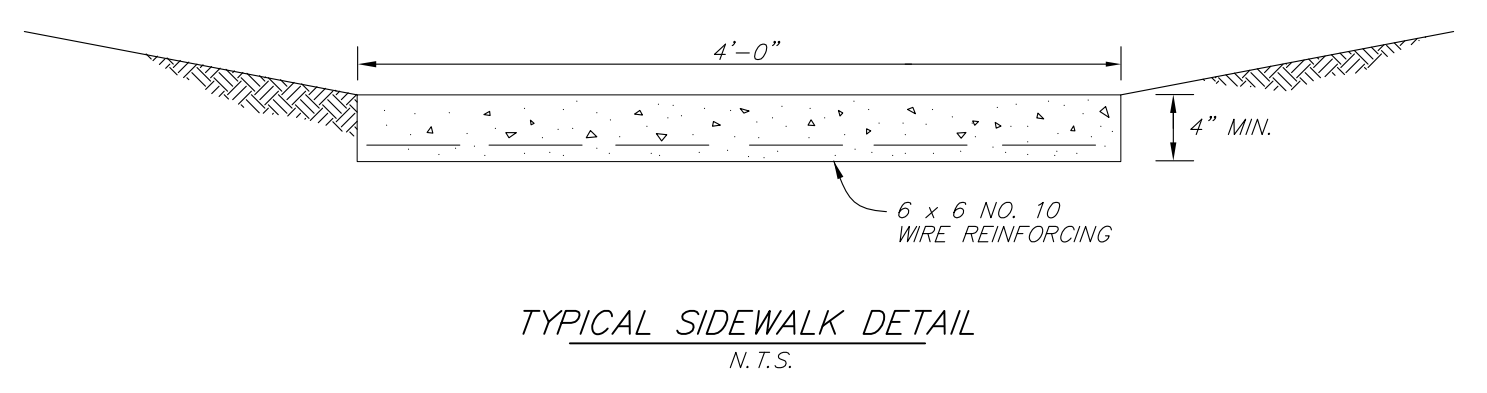
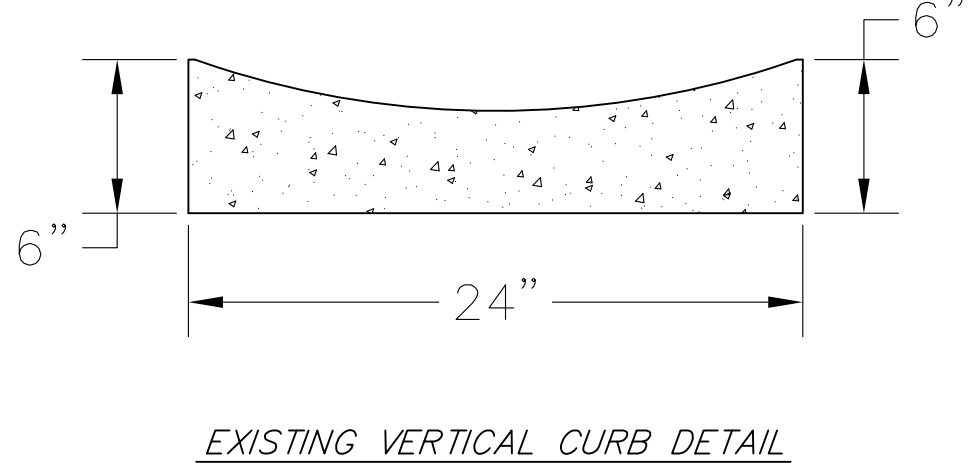
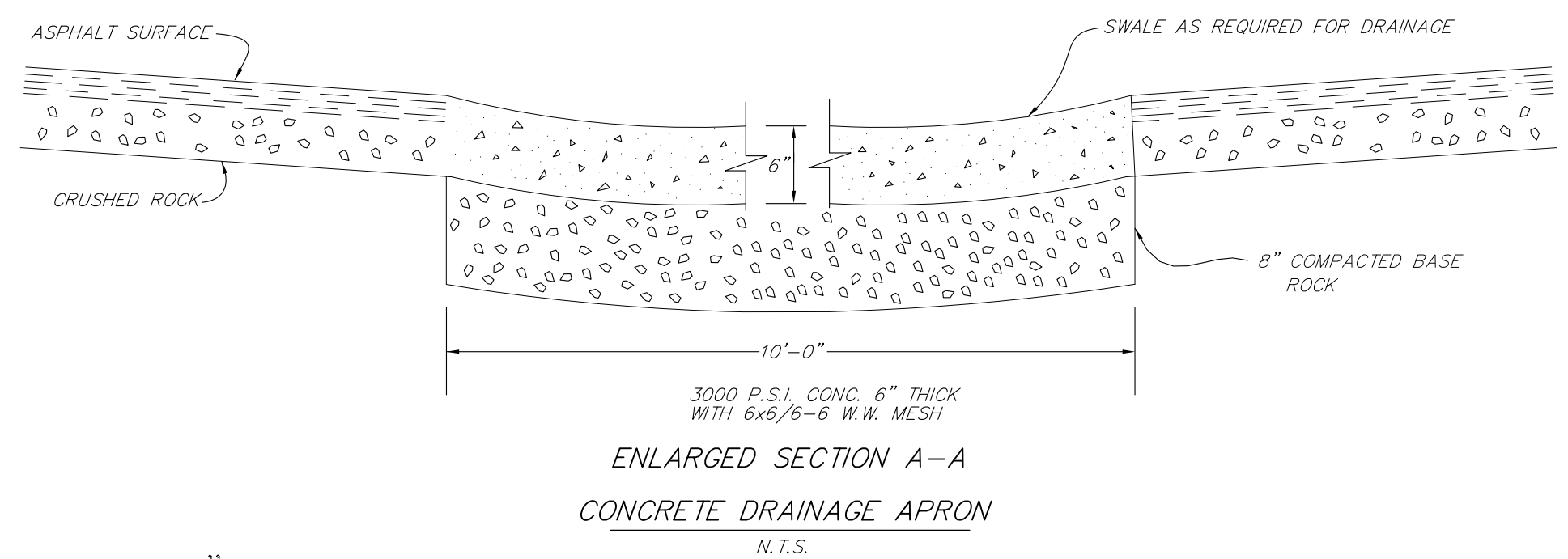
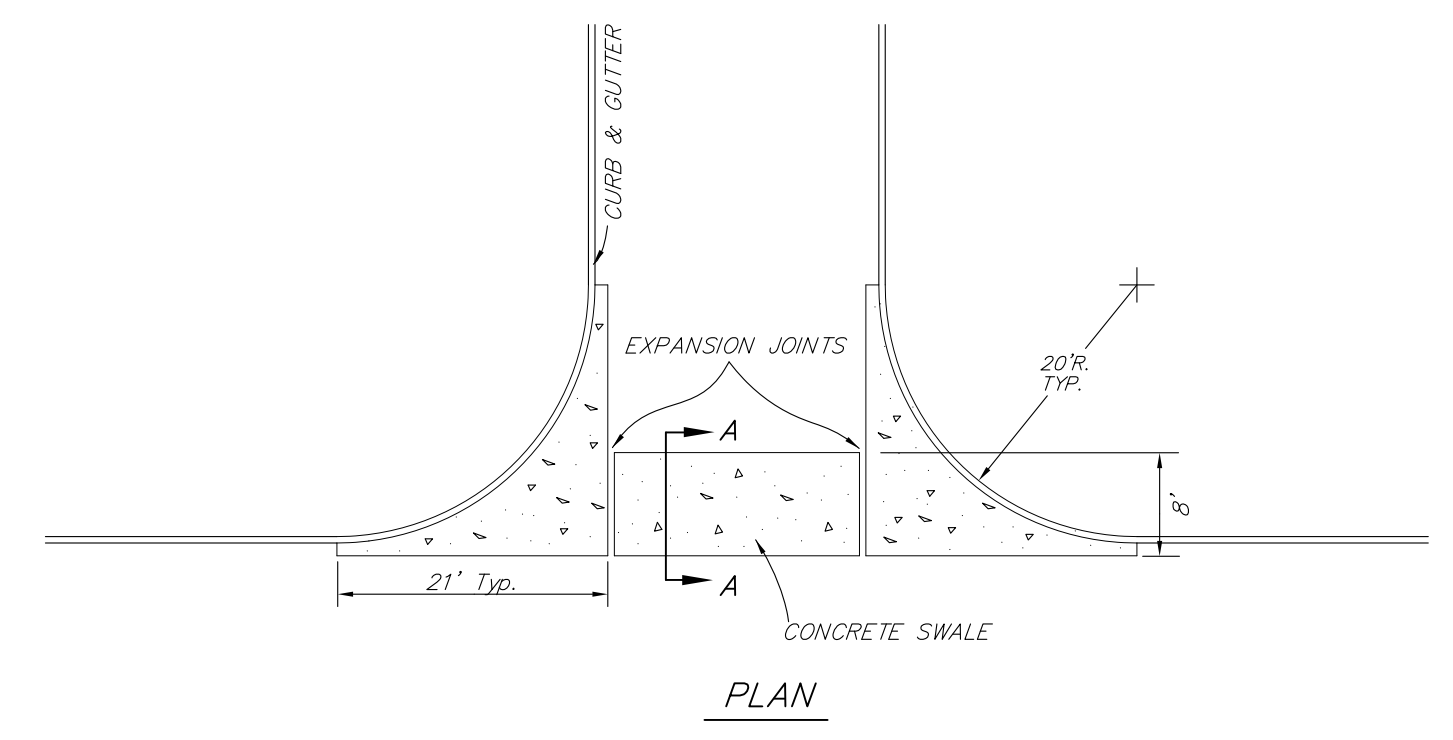
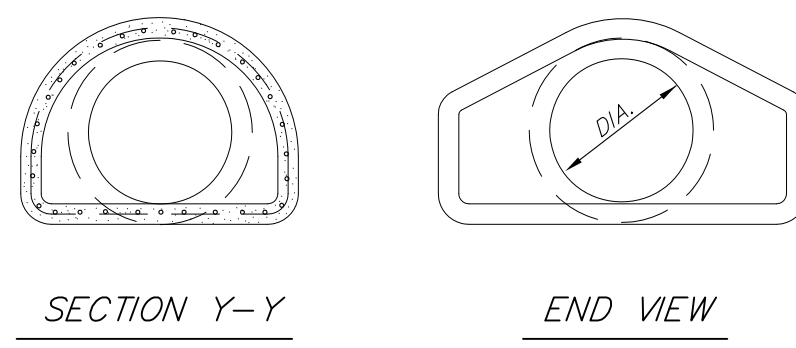
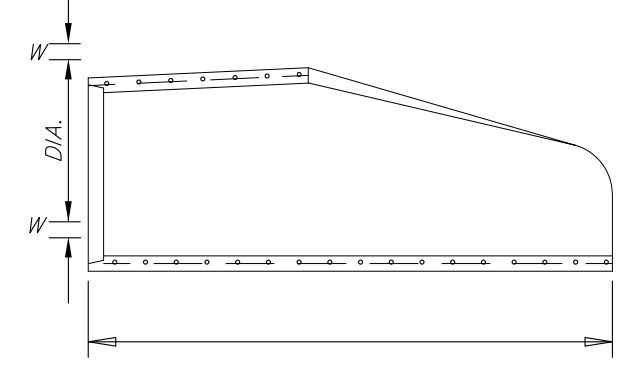




- INLET NOTES:**
1. INLETS TO BE CONSTRUCTED OF CAST-IN-PLACE CONCRETE OR OF 8" CONCRETE BLOCK WITH ALL VOIDS FILLED WITH CONCRETE.
  2. FOR CAST-IN-PLACE CONCRETE INLETS, WALLS SHALL BE 6" THICK AND REINFORCED WITH #4 REBAR @ 12" O.C., HORIZONTALLY & VERTICALLY.
  3. THE INTERIOR SIDE OF THE FRONT WALL OF INLET TO MATCH BACK OF CURB.

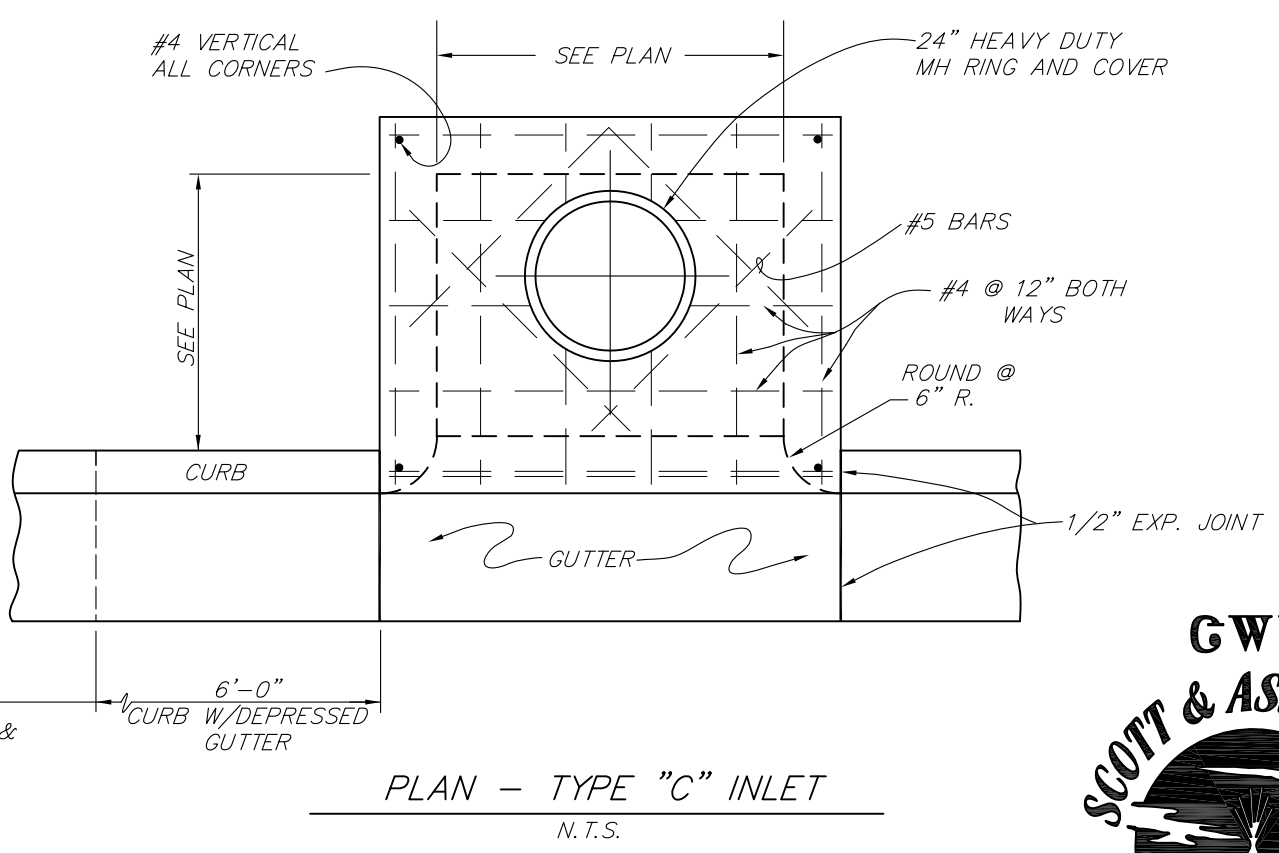
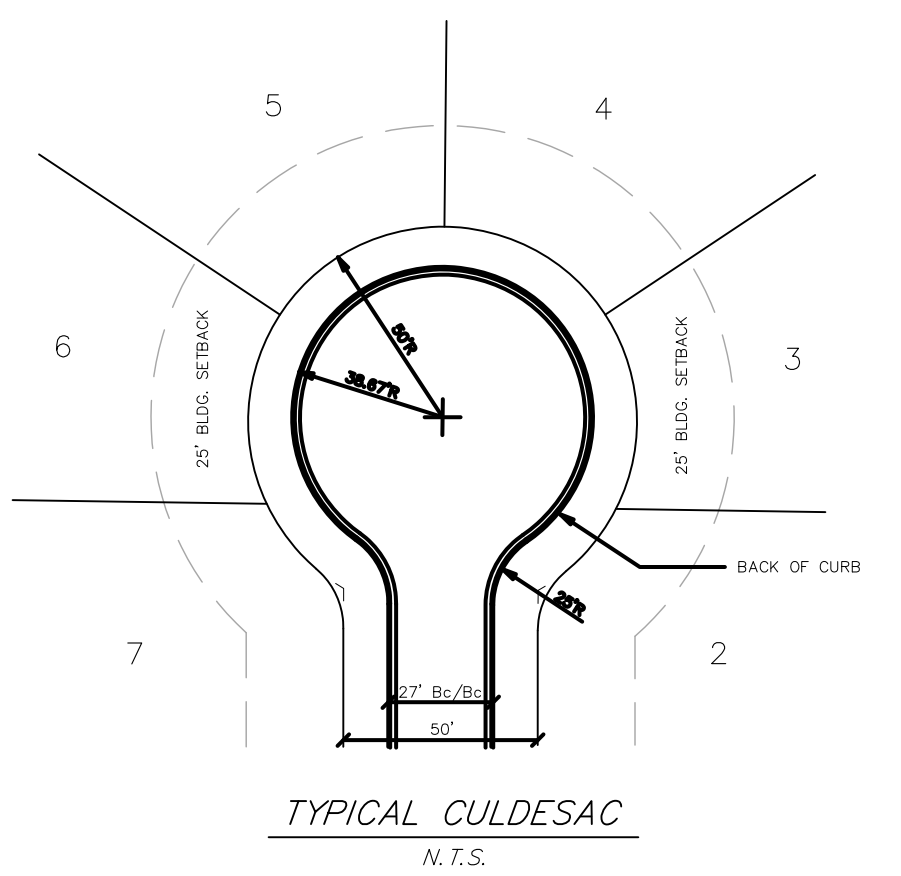


| DIA. | WALL   | D         | E     |
|------|--------|-----------|-------|
| 18"  | 2 1/2" | 6'-1"     | 3'-0" |
| 24"  | 3"     | 6'-1 1/2" | 4'-0" |
| 30"  | 3 1/2" | 6'-1 3/4" | 5'-0" |
| 36"  | 4"     | 8'-1 3/4" | 6'-0" |
| 42"  | 4 1/2" | 8'-2"     | 6'-6" |
| 48"  | 5"     | 8'-2"     | 7'-0" |
| 54"  | 5 1/2" | 8'-4"     | 7'-6" |
| 60"  | 6"     | 8'-4"     | 8'-0" |
| 72"  | 7"     | 8'-4"     | 9'-0" |

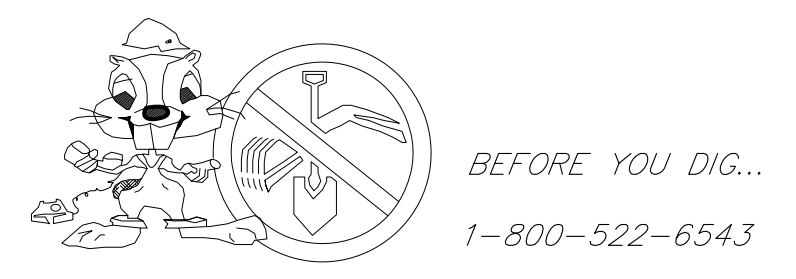


- INLET NOTES:**
1. INLETS TO BE CONSTRUCTED OF CAST-IN-PLACE CONCRETE.
  2. FOR CAST-IN-PLACE CONCRETE INLETS, WALLS SHALL BE 6" THICK AND REINFORCED WITH #4 REBAR @ 12" O.C., HORIZONTALLY AND VERTICALLY.
  3. THE INTERIOR SIDE OF THE FRONT WALL OF INLET TO MATCH BACK OF CURB.

\*\* CONTRACTOR SHALL PROVIDE PUBLIC SAFETY IN CONSTRUCTION AREA AT ALL TIMES. WARNING SIGNS, FLAGMEN, AND SAFETY DEVICES MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. (MUTCD)



- NOTES:**
1. INLETS TO BE CONSTRUCTED OF CAST-IN-PLACE CONCRETE OR OF 8" CONCRETE BLOCK WITH ALL VOIDS FILLED WITH CONCRETE.
  2. FOR CAST IN PLACE CONCRETE INLETS, WALLS SHALL BE 6" THICK AND REINFORCED WITH #4 REBAR @ 12" O.C., HORIZONTALLY AND VERTICALLY.
  3. THE INTERIOR SIDE OF THE FRONT WALL OF INLET TO MATCH BACK OF CURB.



PRIOR TO PERFORMING ANY GRADING OR EXCAVATING WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND "CALL OKIE (OKLAHOMA ONE-CALL)" NOT LESS THAN 48 HOURS IN ADVANCE AND SHALL VERIFY OR ESTABLISH THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND LINES.

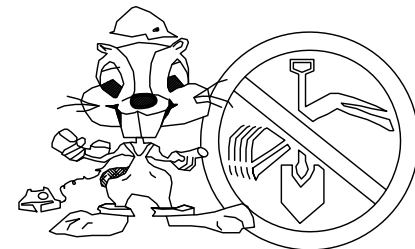




**LEGAL DESCRIPTION**

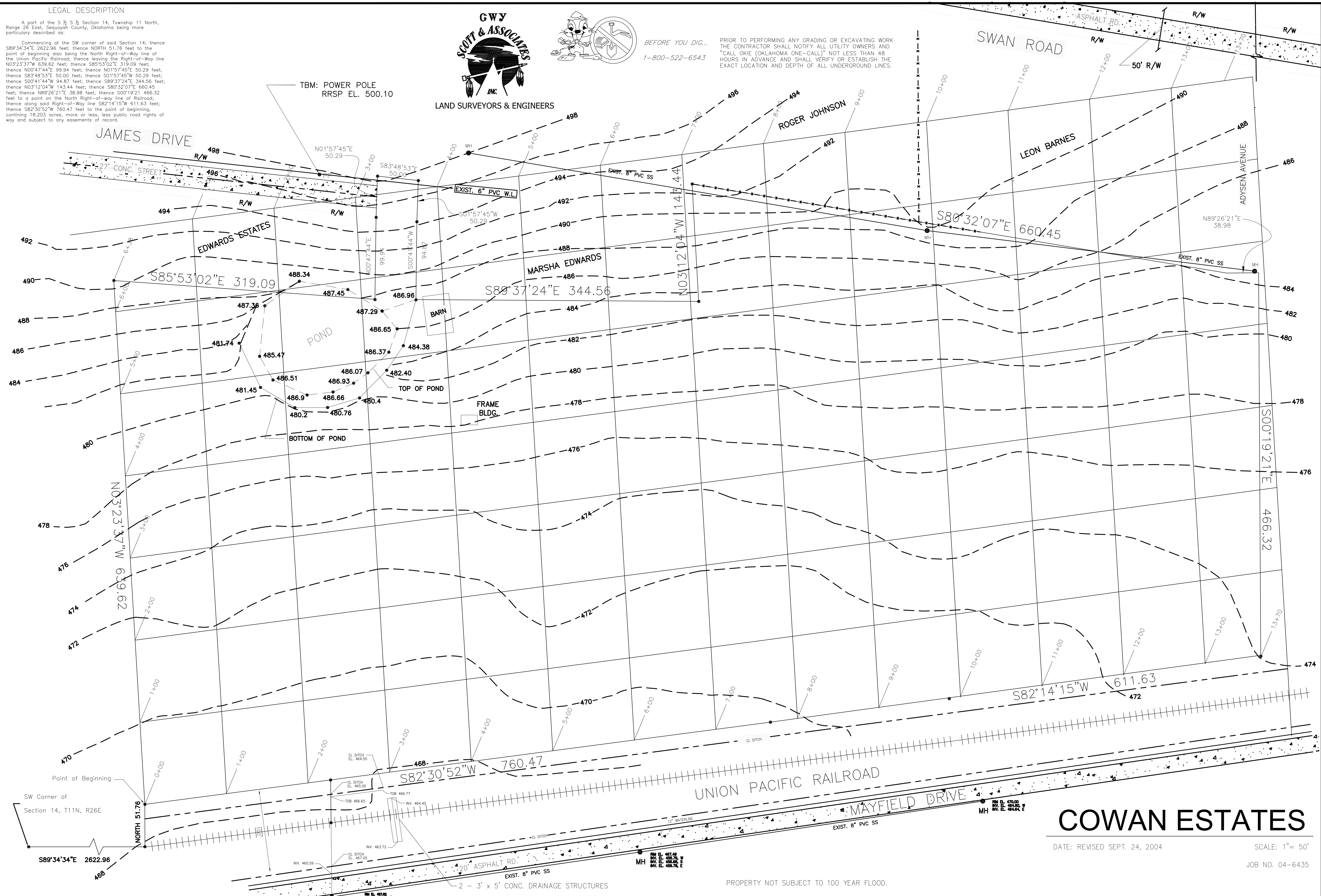
A part of the S 1/2 S 1/2 Section 14, Township 11 North, Range 26 East, Sequoyah County, Oklahoma being more particularly described as:

Commencing at the SW corner of said Section 14; thence S89°34'34"E 2622.96 feet; thence NORTH 51.76 feet to the point of beginning also being the North Right-of-Way line of the Union Pacific Railroad; thence leaving the Right-of-Way line N03°23'37"W 639.62 feet; thence S85°53'02"E 319.09 feet; thence N00°47'44"E 99.94 feet; thence N01°57'45"E 50.29 feet; thence S83°48'53"E 50.00 feet; thence S01°57'45"W 50.29 feet; thence S00°41'44"W 94.87 feet; thence S89°37'24"E 344.56 feet; thence N03°12'04"W 143.44 feet; thence S80°32'07"E 660.45 feet; thence N89°26'21"E 38.98 feet; thence S00°19'21"W 466.32 feet to a point on the North Right-of-way line of Railroad; thence along said Right-of-Way line S82°14'15"W 611.63 feet; thence S82°30'52"W 760.47 feet to the point of beginning, containing 18.203 acres, more or less, less public road rights of way and subject to any easements of record.



BEFORE YOU DIG...  
1-800-522-6543

PRIOR TO PERFORMING ANY GRADING OR EXCAVATING WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND "CALL OKE (OKLAHOMA ONE-CALL)" NOT LESS THAN 48 HOURS IN ADVANCE AND SHALL VERIFY OR ESTABLISH THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND LINES.



TOPOGRAPHIC SURVEY  
DESIGN BY: IPM  
CHECK BY: CDC  
DATE: 8/14  
SHEET 10 OF 10

COWAN ESTATES  
JOB NO. 04-6435  
SEQUOYAH COUNTY, OKLAHOMA

CHEROKEE NATION  
COMMUNITY SERVICES / ROADS DEPARTMENT  
TAHLEQUAH, OKLAHOMA

**COWAN ESTATES**

DATE: REVISED SEPT. 24, 2004  
SCALE: 1" = 50'  
JOB NO. 04-6435



PROPERTY NOT SUBJECT TO 100 YEAR FLOOD.