

**Developer:**  
COLBERN ROAD INVESTORS LLC  
1325 FAIR MARKET DR  
WENTZVILLE, MO 63385

- C.001 ~ STREET & STORM COVER SHEET
- C.100 ~ SITE PLAN
- C.101 ~ STREET SIGNAGE
- C.102 ~ STREET SIGNAGE DETAIL
- C.200 ~ GRADING PLAN
- C.201 ~ SPOT ELEVATIONS
- C.202 ~ STREET PLAN & PROFILE
- C.203 ~ SIDEWALK AND INTERSECTION PLAN
- C.300 ~ STORM SEWER GENERAL LAYOUT
- C.301 ~ STORM SEWER PLAN & PROFILE

**RESIDENTIAL LOCAL STREET** SEE BELOW FOR TYPICAL SECTION.

OPTION 1) 4" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

OPTION 2) 4" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 ASPHALT SURFACE OVER 10" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.

RESIDENTIAL COLLECTOR STREET FOR SW ARBORWALK BLVD SEE BELOW FOR TYPICAL SECTION.

OPTION 1) 5.5" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 or 6-01 ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 9" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

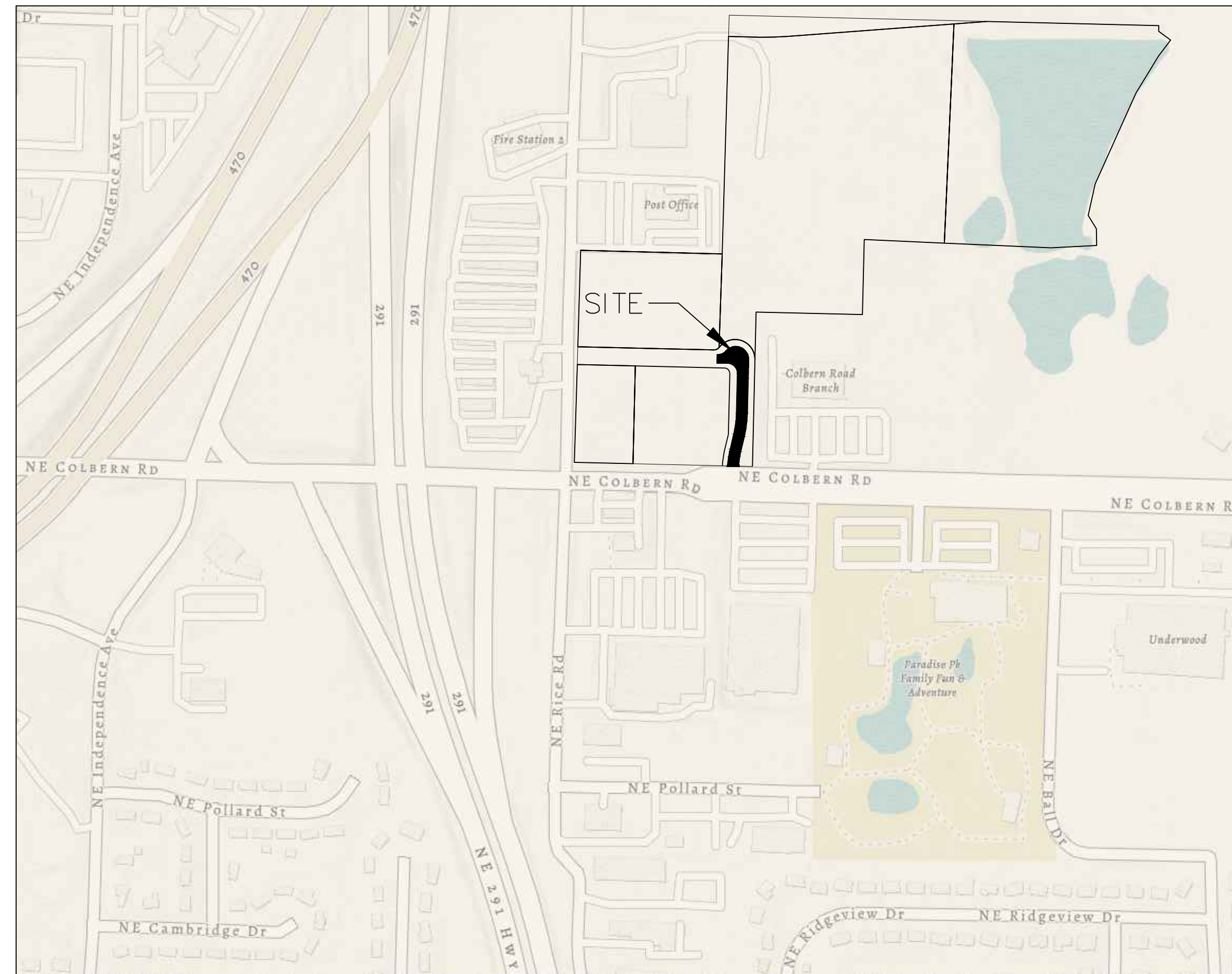
OPTION 2) 5.5" TYPE 5-01 ASPHALT BASE AND 2" TYPE 5-01 or 6-01 ASPHALT SURFACE OVER 12" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE CITY'S APPROVED PRODUCT LIST.

3 - JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING NO. STM-3. FIELD INLETS SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING STM-2. TOEWALLS SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING NO. STM-5. JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STM-3. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEES SUMMIT.

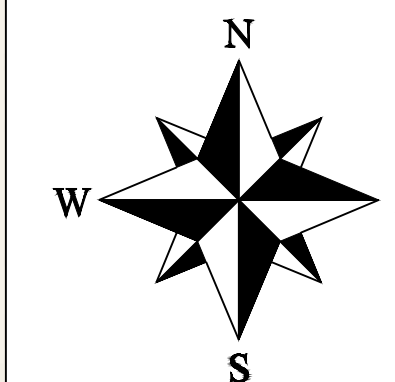
- 1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- 2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAN.
- 3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- 4 ~ THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- 5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
- 6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

ACCORDING TO EDWARD ALTON MAY JR'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

THE SUBJECT PROPERTY SURVEYED LIES WITHIN A FLOOD ZONE DESIGNATED ZONE (X), AREAS LOCATED OUTSIDE THE 100 YEAR FLOOD PLAIN, PER F.E.M.A. MAP, COMMUNITY PANEL NO. 29095C0531G EFFECTIVE DATE: JANUARY 2017.

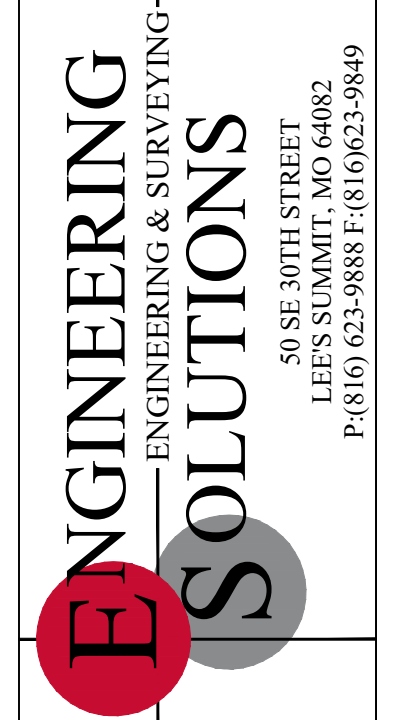
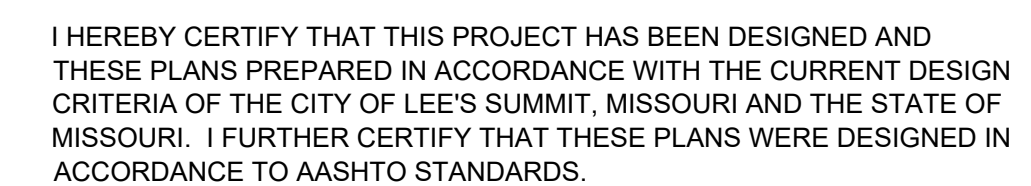


EVERGY - 298-1196  
MISSOURI GAS ENERGY - 756-5261  
SOUTHWESTERN BELL TELEPHONE - 761-5011  
COMCAST CABLE - 795-1100  
WILLIAMS PIPELINE - 422-6300  
CITY OF LEE'S SUMMIT PUBLIC WORKS - 969-1800  
CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING INSPECTION AT 816.969.1200  
CITY OF LEE'S SUMMIT WATER UTILITIES - 969-1900  
MISSOURI ONE CALL (DIG RITE) - 1-800-344-7483



B/L - BUILDING SET-BACK  
C/A - COMMON AREA  
D/E - DRAINAGE EASEMENT  
FND. - FOUND  
L/E - LANDSCAPE EASEMENT  
L.N.A. - LIMITS OF NO ACCESS  
R/W - RIGHT OF WAY  
SAN - SANITARY SEWER LINE  
S/W - SIDEWALK  
U/E - UTILITY EASEMENT  
W - WATER LINE  
ST - STORM SEWER LINE

| ITEM AND DESCRIPTION            | UNIT | ESTIMATE QUANTITY |
|---------------------------------|------|-------------------|
| ASPHALT PAVING                  | S.Y. | 1,485.00          |
| CURBING                         | FT   | 846.00            |
| 5' SIDEWALK                     | S.F. | 3,515.00          |
| MoDOT Type 5 Base               | S.Y. | 1,756.00          |
| GEOGRID                         | S.Y. | 1,756.00          |
| ADA SIDEWALK RAMP               | UNIT | 3                 |
| STORM                           |      |                   |
| 30" HDPE                        | FT   | 176.90            |
| 18" HDPE                        | FT   | 23.70             |
| 15" HDPE                        | FT   | 235.90            |
| 15" FLARED END-SECTION          | UNIT |                   |
| 18" FLARED END-SECTION          | UNIT |                   |
| 30" HDPE END SECTION / TOE WALL | LS   | 1.00              |
| 5 x 4' STORM CURB INLET         | EA   | 4.00              |



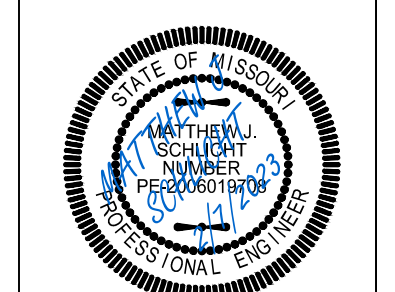
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Missouri  
*Engineering 2005002186-D*  
*Surveying 2005008319-D*  
Kansas  
*Engineering E-1695*  
*Surveying LS-218*  
Oklahoma  
*Engineering 6254*  
Nebraska  
*Engineering CA2821*

Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

Project:  
COLBORN ROAD  
INVESTMENTS LSMO

Issue Date:  
February 7, 2023

Street & Storm Cover Sheet  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht  
MO PE 2006019708  
KS PE 19071  
OK PE 25226  
NE PE E-14335

REVISIONS

| REV. | DATE     | DESCRIPTION |
|------|----------|-------------|
| 1    | 2/7/2023 |             |

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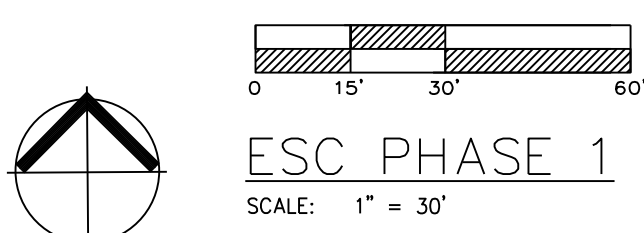
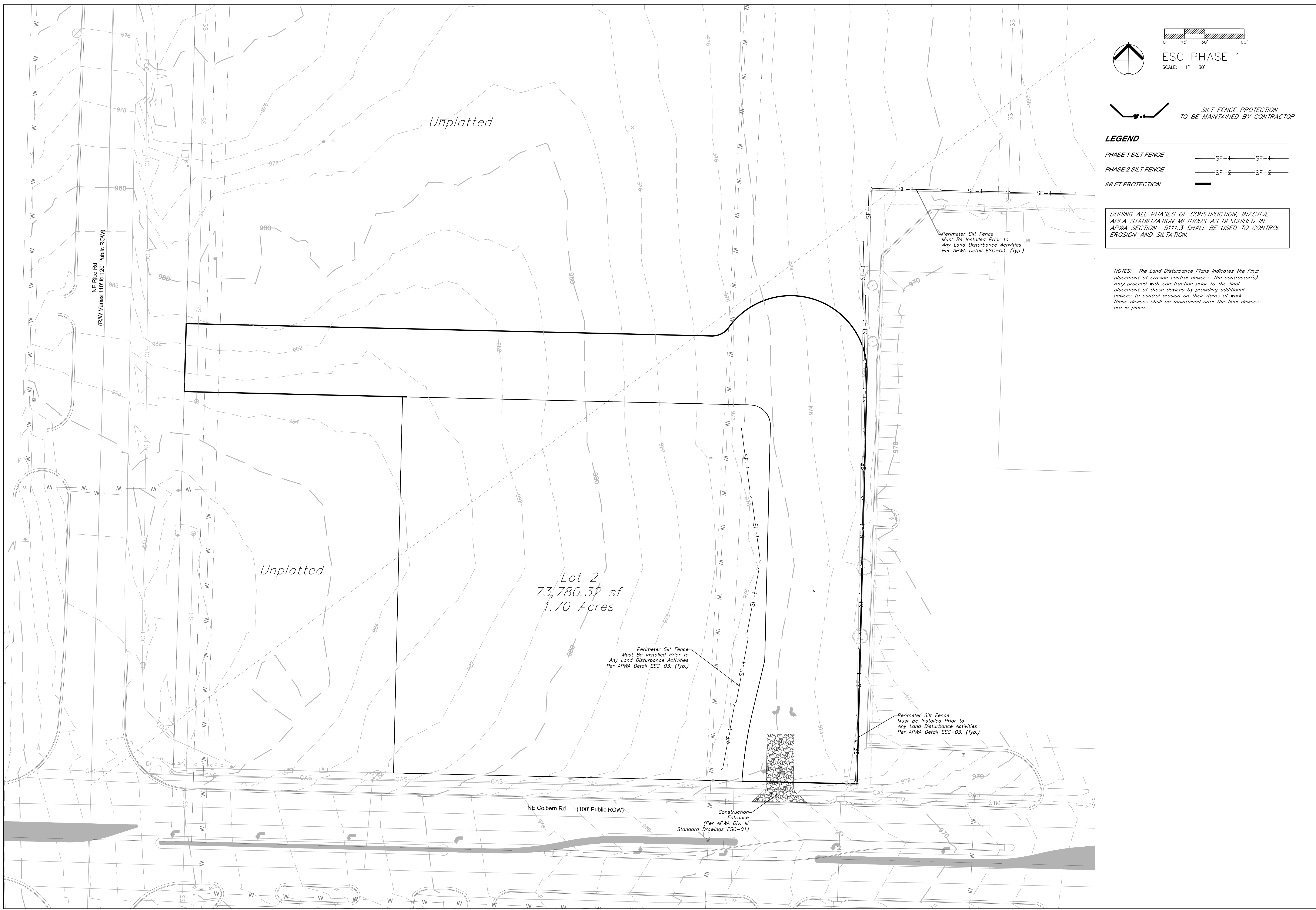
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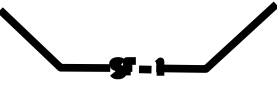
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C.001





ESC PHASE 1  
SCALE: 1" = 30'



SILT FENCE PROTECTION  
TO BE MAINTAINED BY CONTRACTOR

|                    |        |        |
|--------------------|--------|--------|
| PHASE 1 SILT FENCE | SF - 1 | SF - 1 |
| PHASE 2 SILT FENCE | SF - 2 | SF - 2 |
| INLET PROTECTION   |        |        |

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

50 SE 30TH STREET  
LEE'S SUMMIT, MO 64082  
P: (816) 623-9888 F: (816) 623-9849

Professional Registration  
Missouri  
Engineering 2005002186-D  
Surveying 200500319-D  
Kansas  
Engineering E-1695  
Surveying LS-218  
Oklahoma  
Engineering 6254  
Nebraska  
Engineering CA2821

Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

Project: COLBERN ROAD INVESTMENTS L&MD  
Issue Date: February 7, 2023

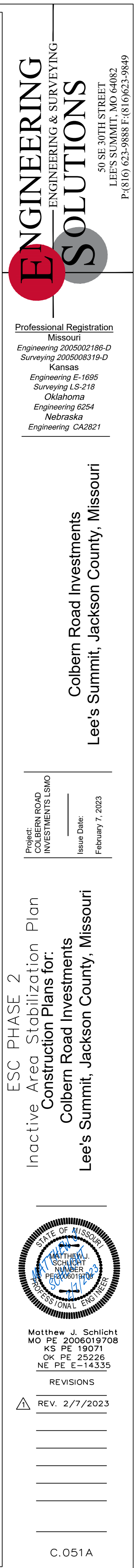
ESC PHASE 1 — Pre-Clearing Plan  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

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NE PE E-14335

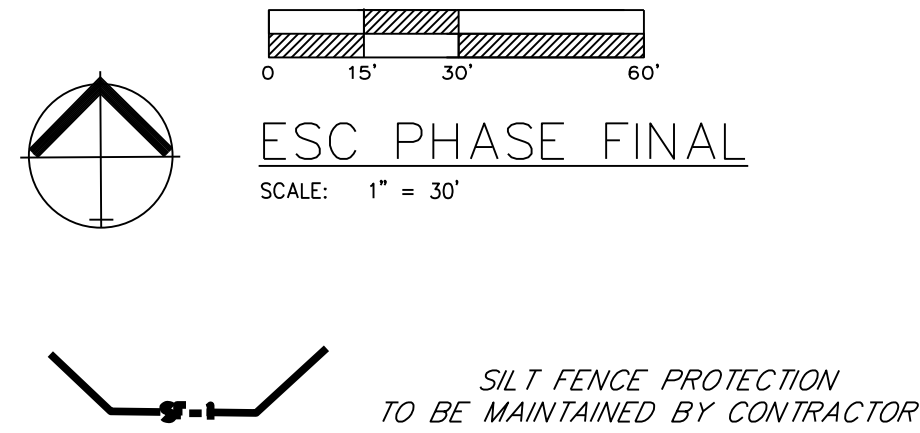
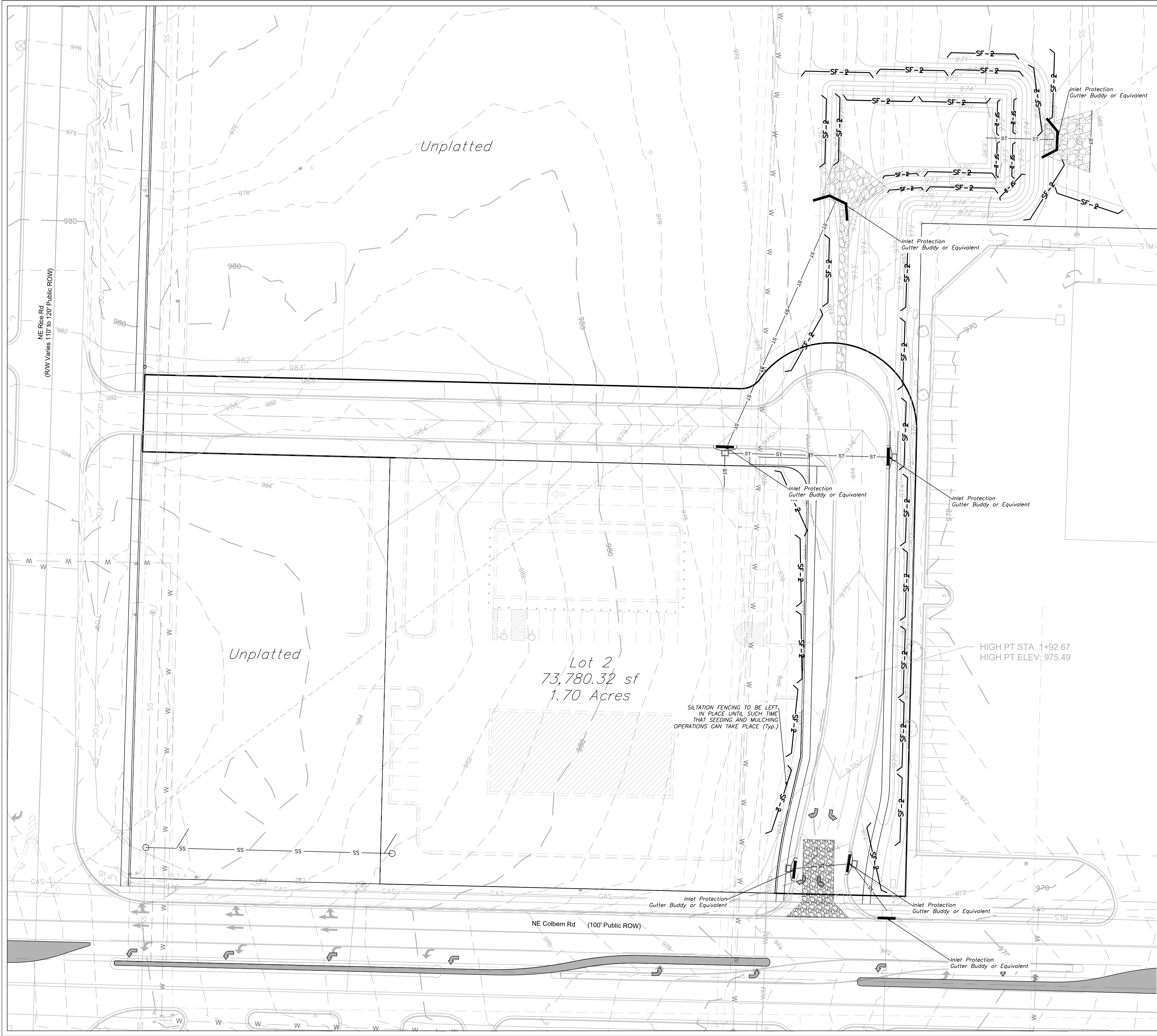
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C.050A









- LEGEND**
- PHASE 1 SILT FENCE ———— SF-1 ———— SF-1
- PHASE 2 SILT FENCE ———— SF-2 ———— SF-2
- INLET PROTECTION ———— IS ———— IS

**DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.**

**NOTES:** The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

**SEED AND MULCH NOTES:**

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix.

**Seed and Fertilizer Rate:**  
Mix I — Rye Grass / Blue Grass -----  
100 lbs. per Acre  
Mix II — Tall Fescue / Blue Grass ----- 195  
lbs. per Acre  
Lime -----2000

lbs per Acre (50 lbs. per 1000 sq. ft.)  
Fertilizer -----800  
to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:  
Lime — 100% of the specified quantity  
Fertilizer — 75% of the specified quantity  
Seed — 50% of the specified quantity  
Mulch — 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided.

**ONCE SITE IS 90% VEGETATED ALL ESC DEVICES SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE RESTORED**

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Oklahoma  
Engineering 6254  
Nebraska  
Engineering CA2821

ESC PHASE 3 — Final Restoration Plan  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

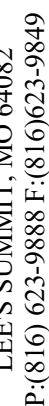
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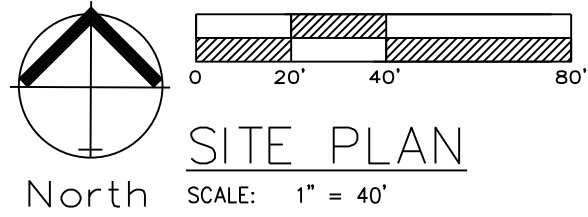
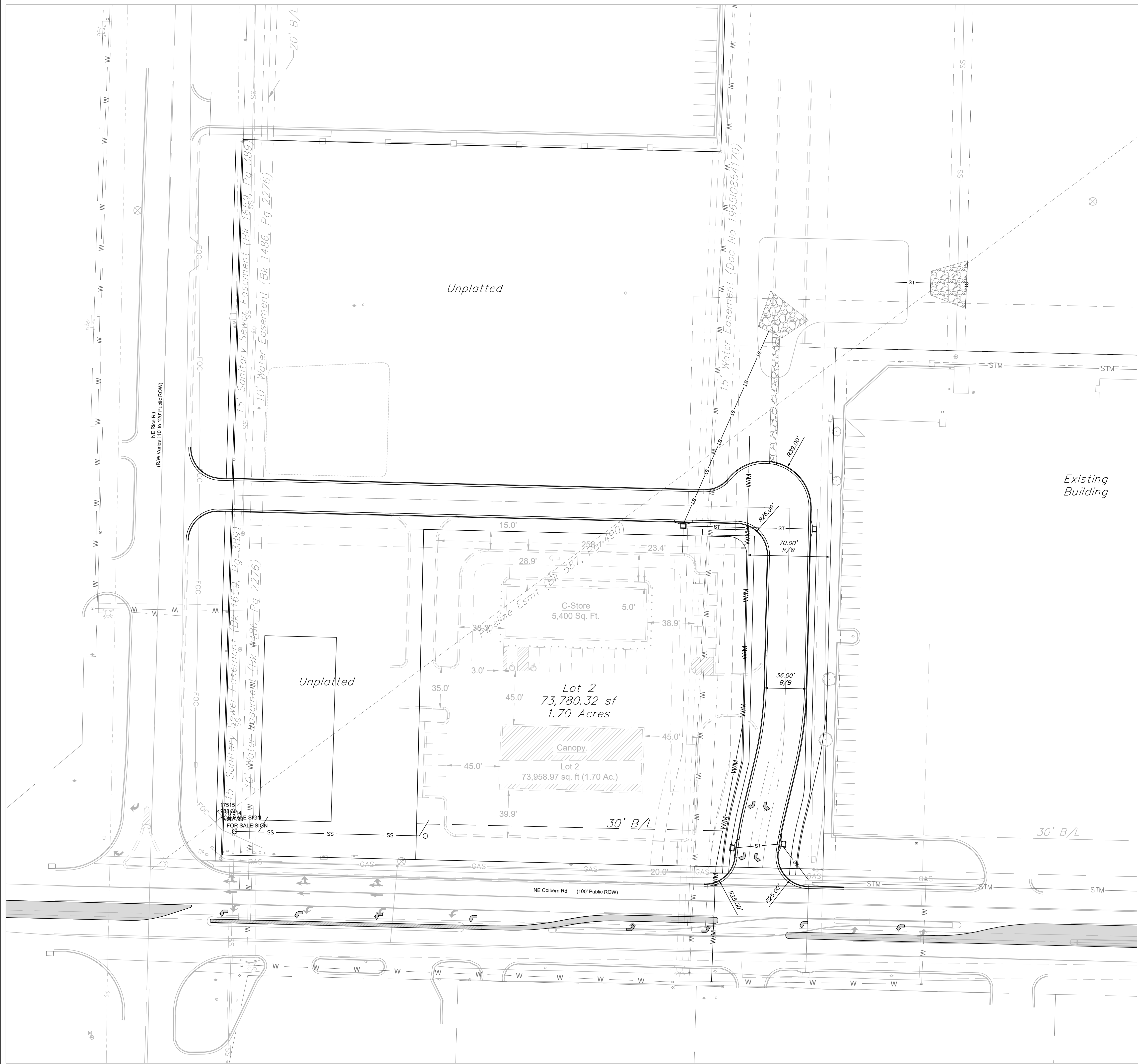
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C.052A





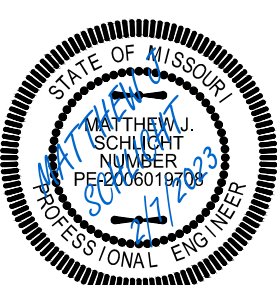




SITE PLAN  
SCALE: 1" = 40'

Site Plan

Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri



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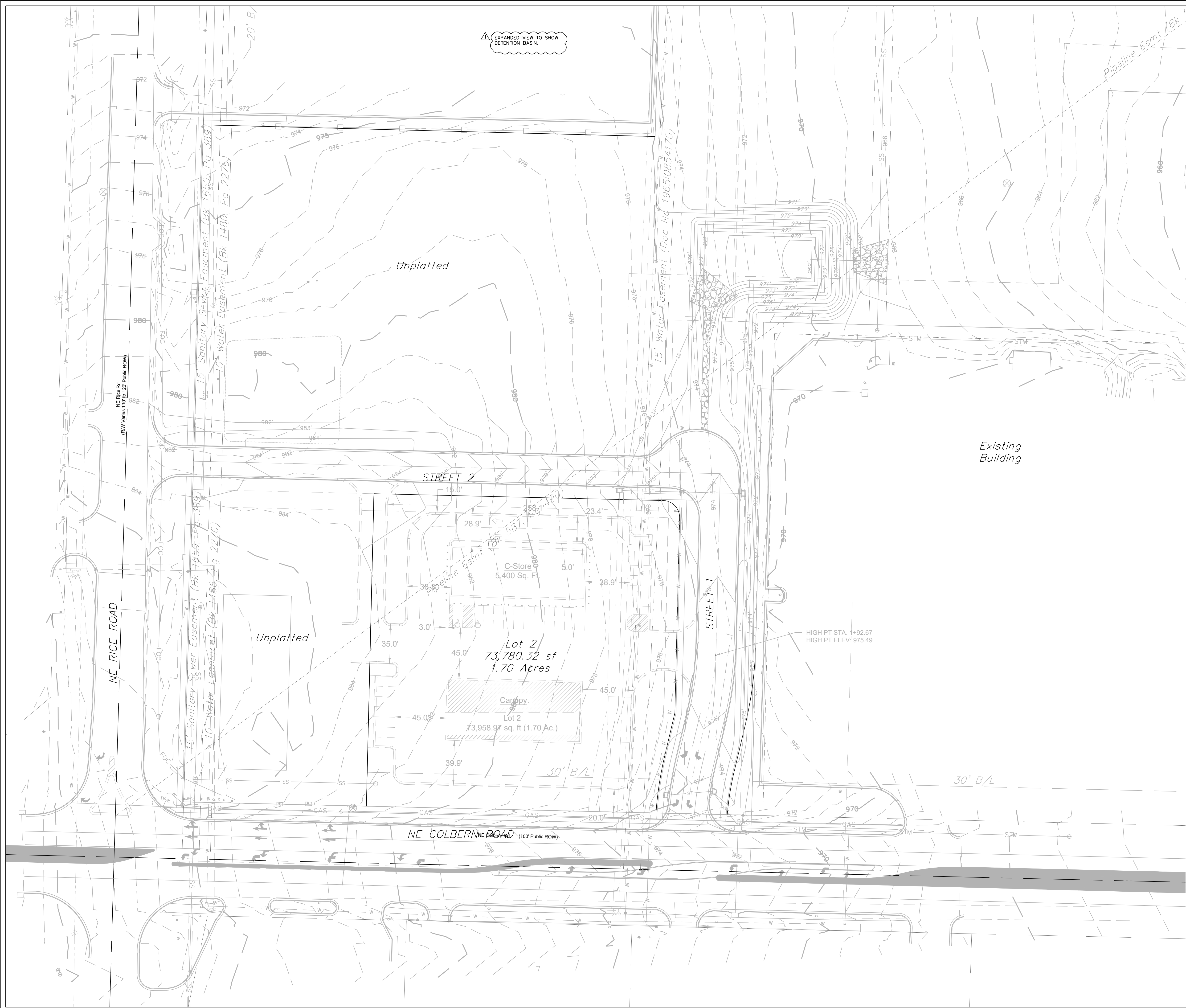
Project: COLBERN ROAD  
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Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

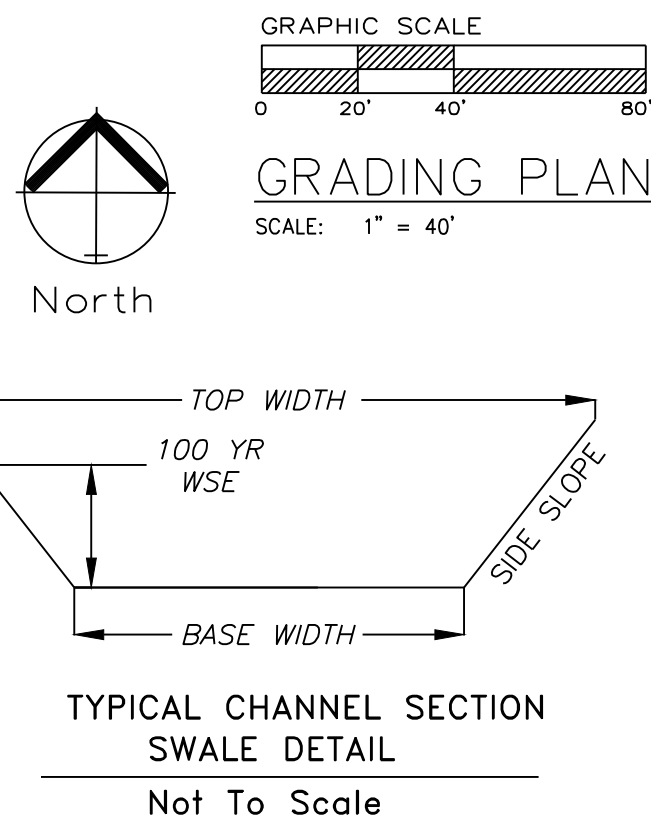
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Engineering 2005002186-D  
Surveying 2005008319-D  
Kansas  
Engineering E-1685  
Surveying LS-218  
Oklahoma  
Engineering 5254  
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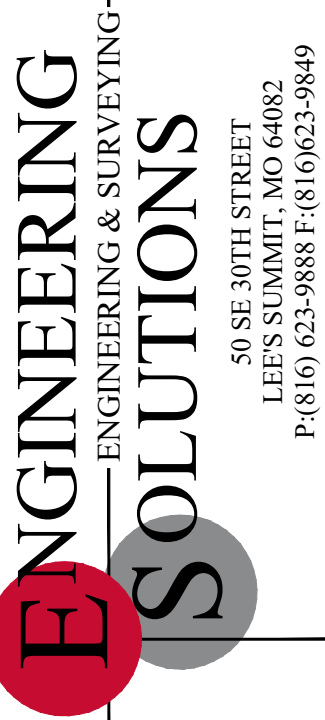


EXPANDED VIEW TO SHOW DETENTION BASIN.



NOTE: Swale sections extend the entire length between upstream and downstream structures with the exception of a transition at each structure. The minimum swale depth shall be 6" over the 100-year water surface elevation.

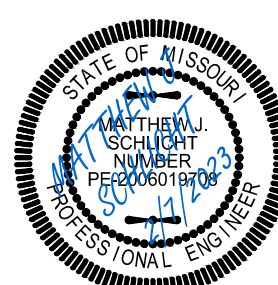
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Professional Registration  
Missouri  
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Kansas  
Engineering E-1685  
Surveying LS-218  
Oklahoma  
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Grading Plan  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

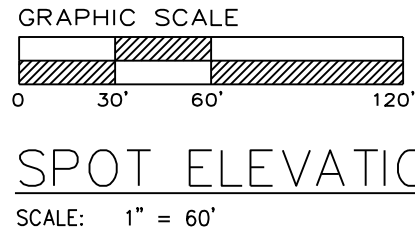
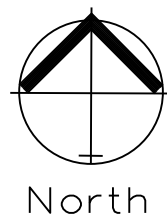
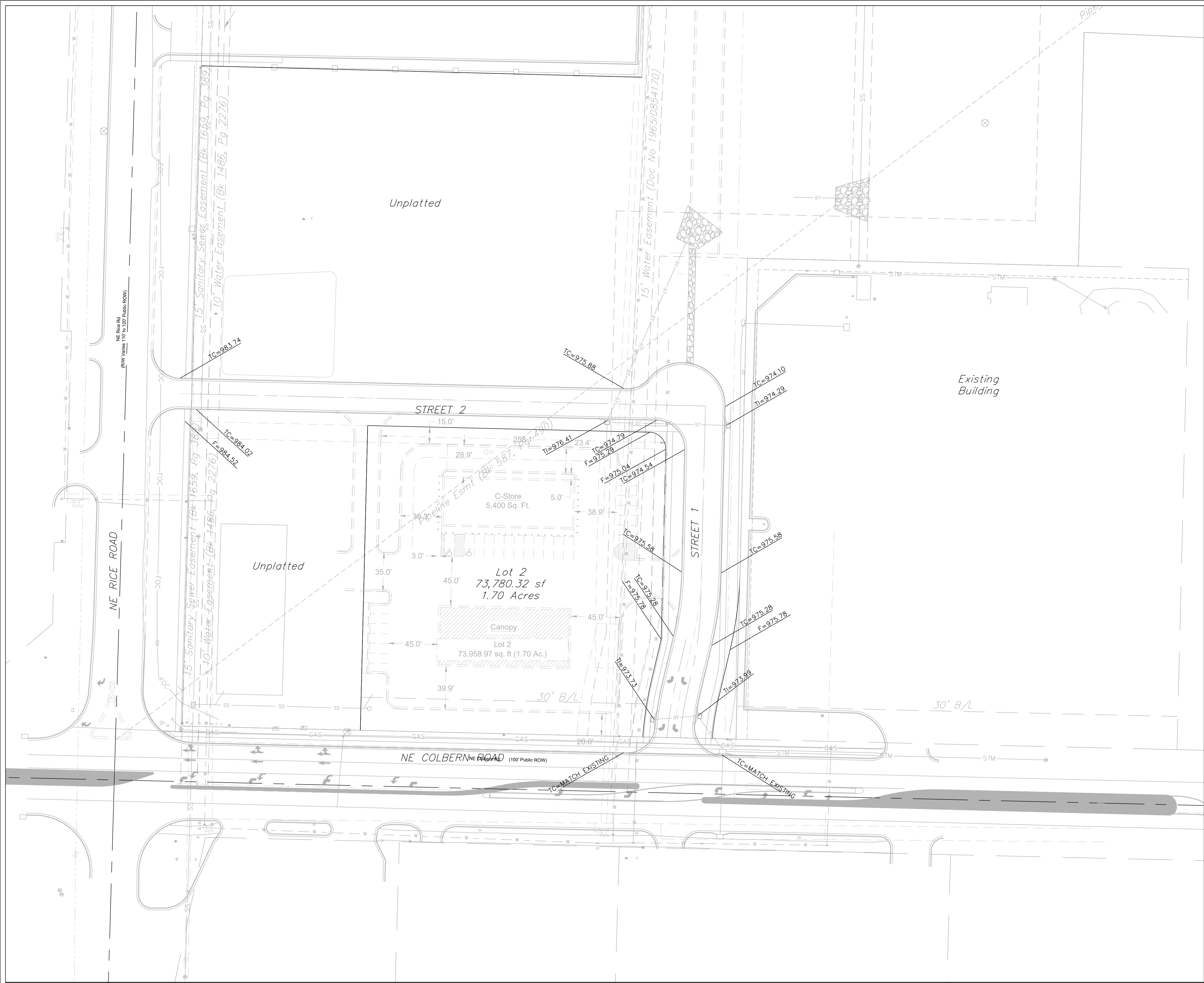


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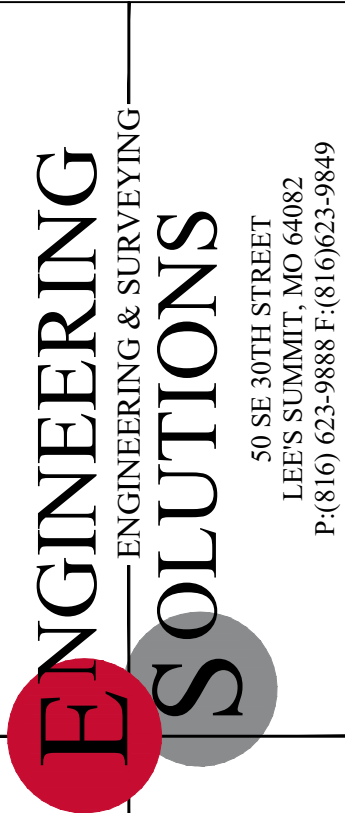
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SPOT ELEVATIONS  
SCALE: 1" = 60'

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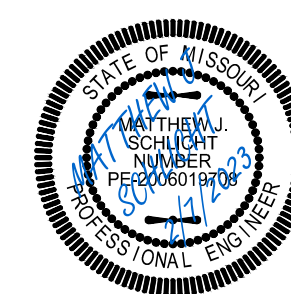


Professional Registration  
Missouri  
Engineering 2005002186-D  
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Kansas  
Engineering E-1695  
Surveying LS-218  
Oklahoma  
Engineering 6254  
Nebraska  
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Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

Project: COLBERN ROAD  
INVESTMENTS L&M  
Issue Date:  
February 7, 2023

Spot Elevations  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

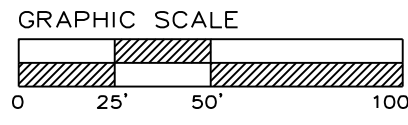
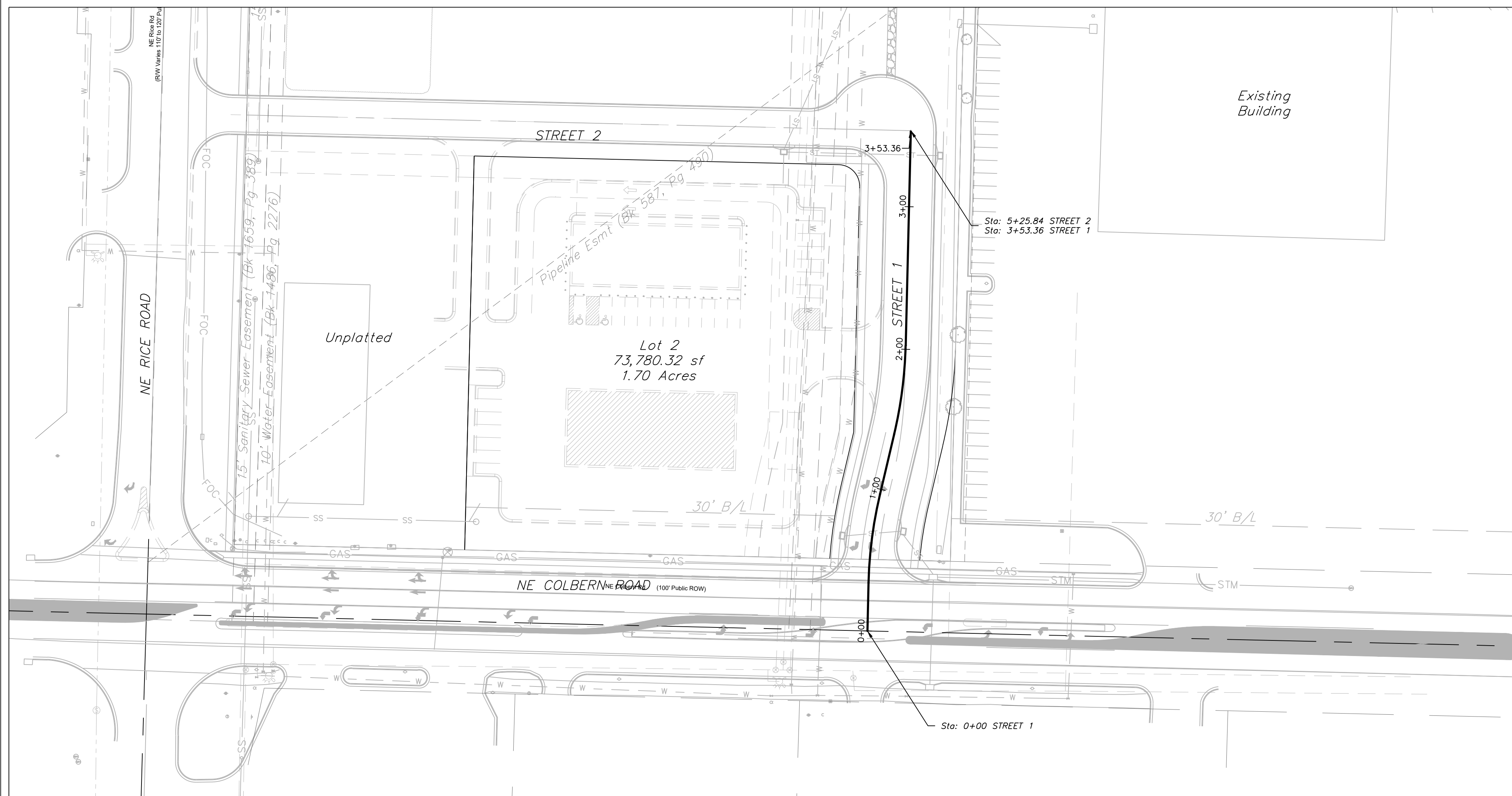


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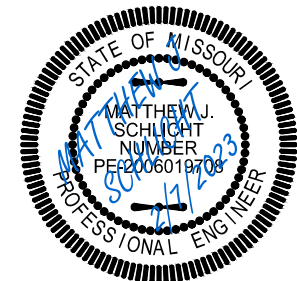
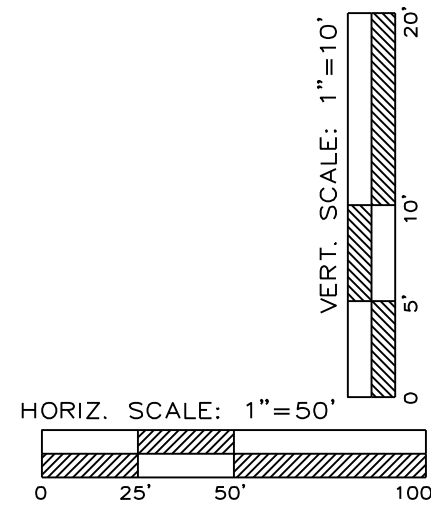
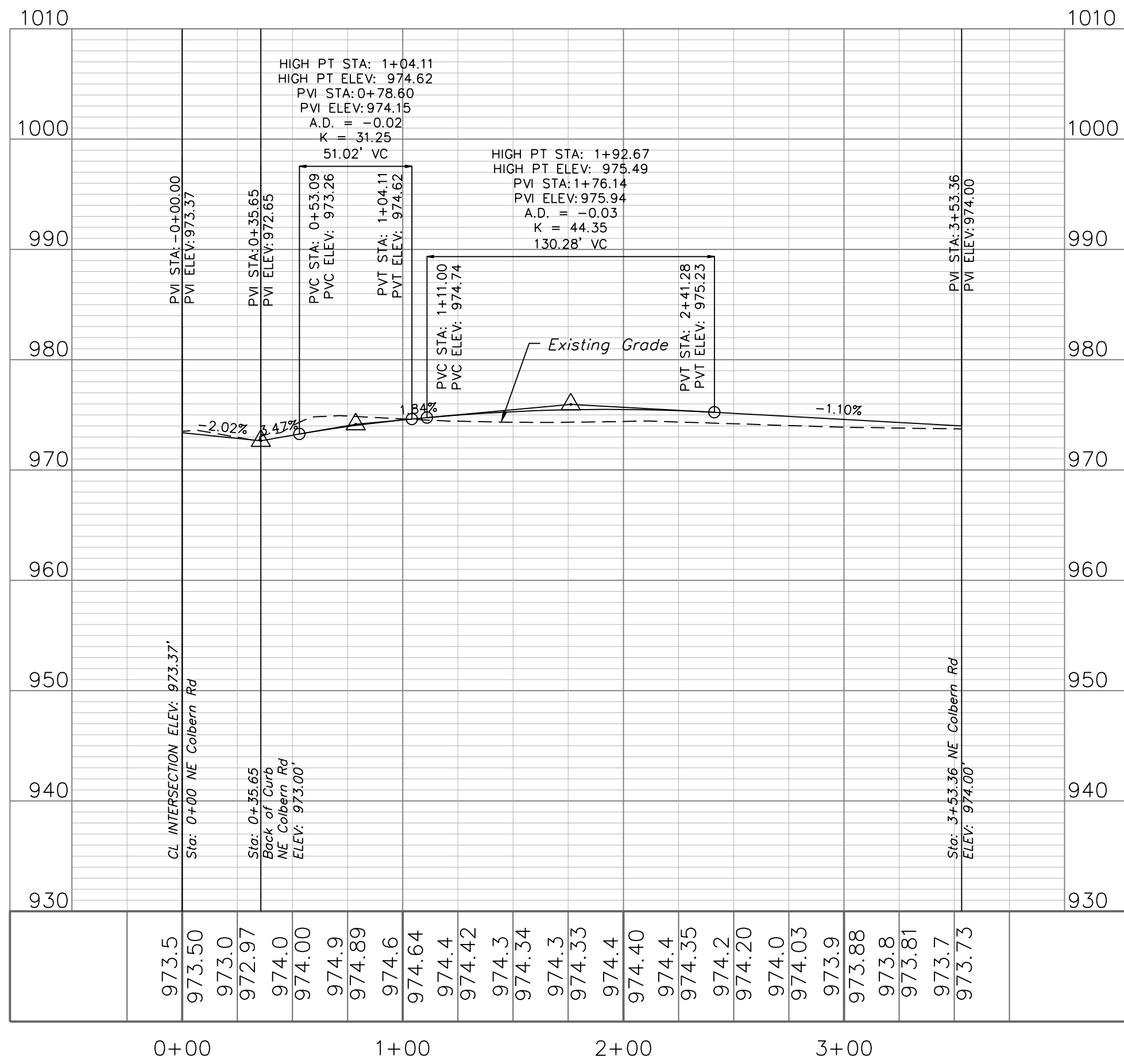
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STREET PLAN & PROFILE  
SCALE: 1" = 50'

## STREET 1



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Street Plan and Profile  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

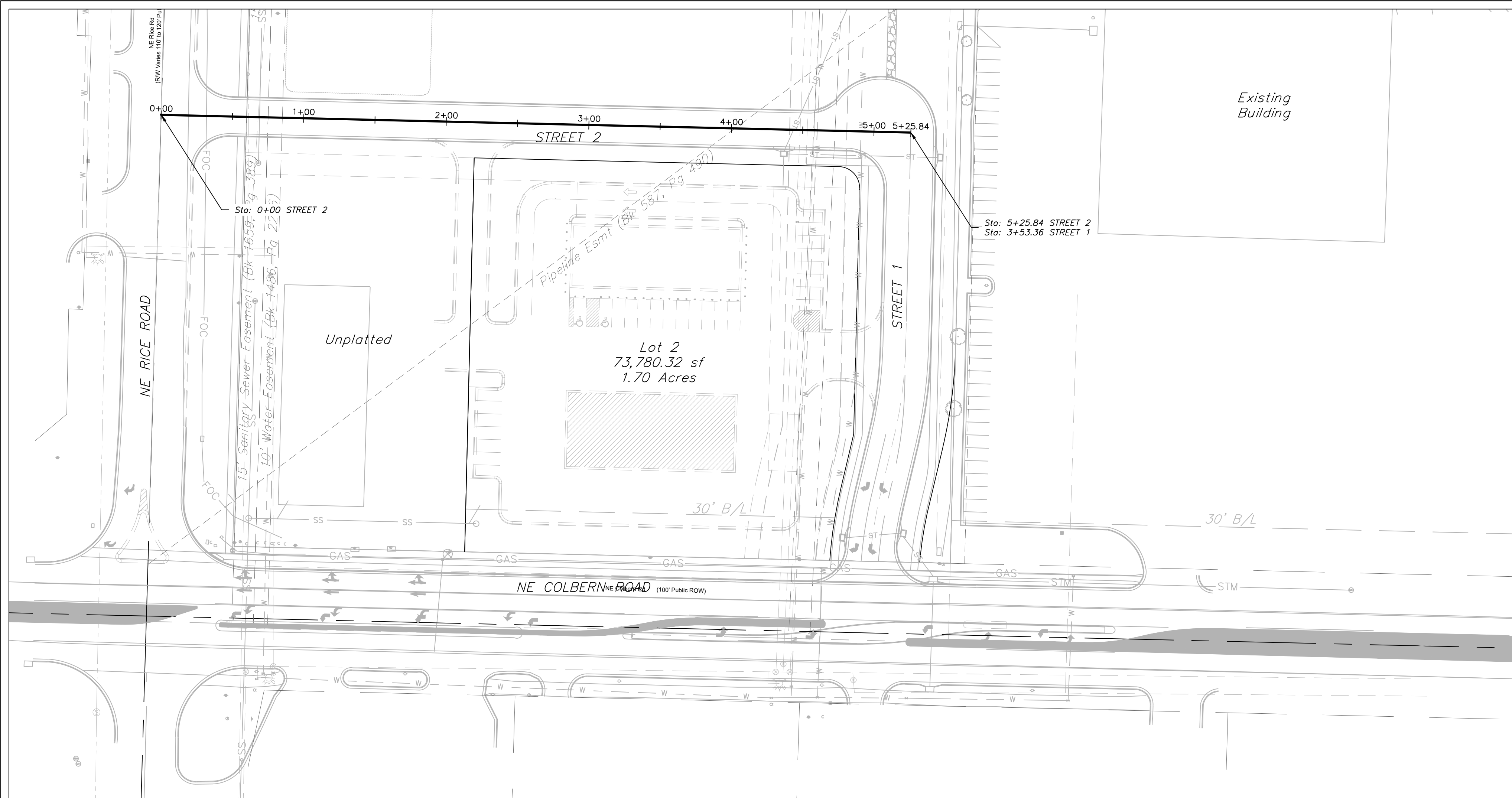
Project:  
Colbern Road  
Investments LIMO  
Issue Date:  
February 7, 2023

Colbern Road Investments  
Lee's Summit, Jackson County, Missouri

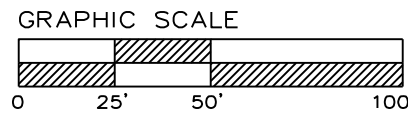
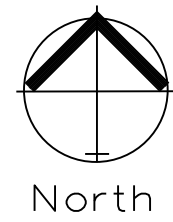
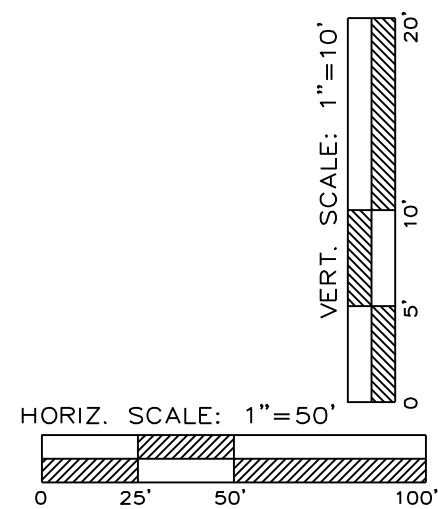
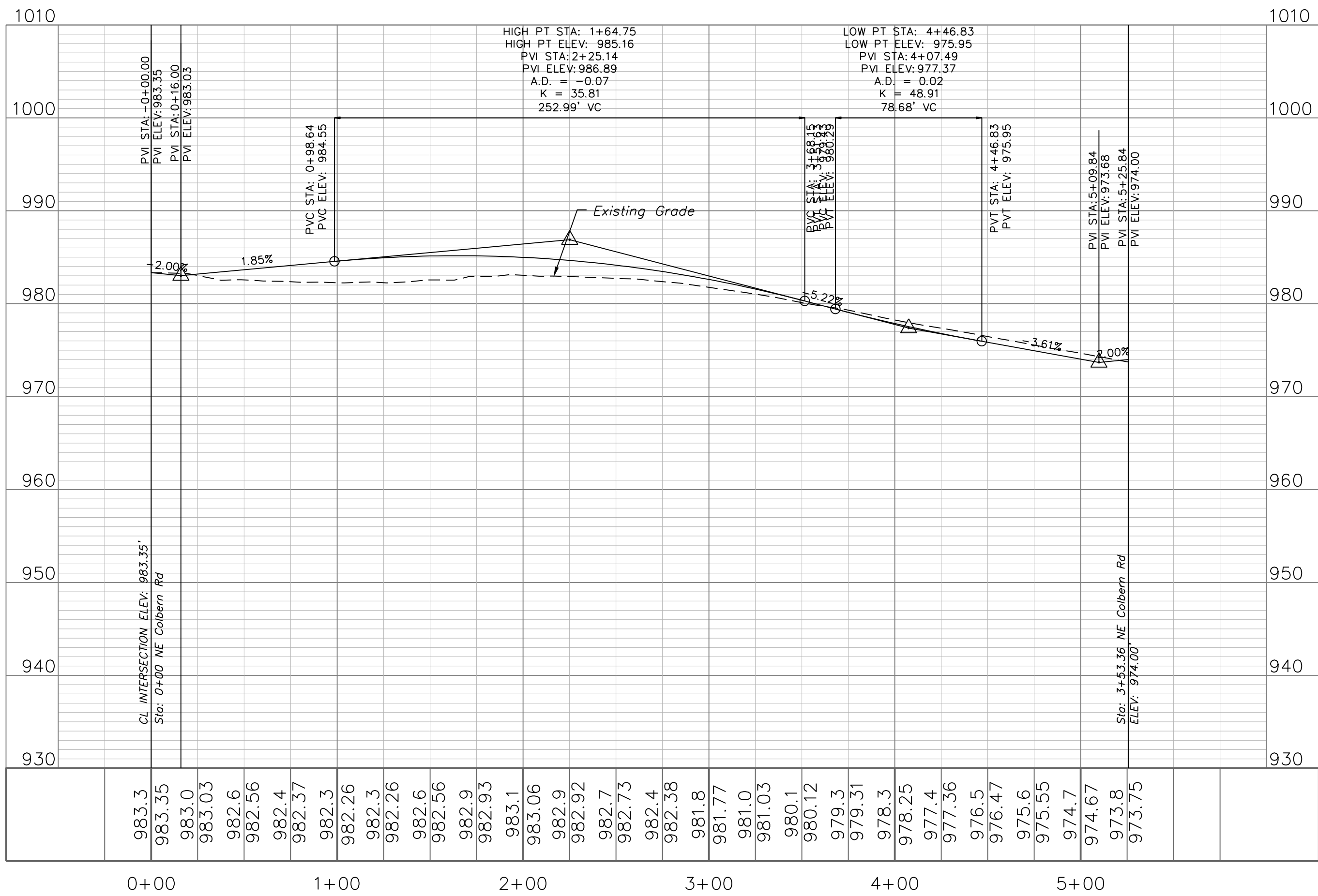
Professional Registration  
Missouri  
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Surveying 2005008319-D  
Kansas  
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Surveying LS-218  
Oklahoma  
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ENGINEERING  
ENGINEERING & SURVEYING  
SOLUTIONS  
50 SE 30TH STREET  
LEE'S SUMMIT, MO 64082  
P: (816) 623-9888 F: (816) 623-9849





STREET 2



STREET PLAN & PROFILE  
SCALE: 1" = 50'

NOT FOR  
CONSTRUCTION

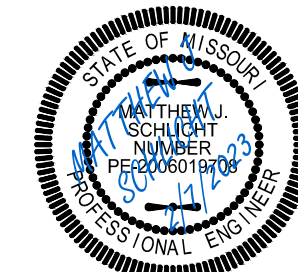


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Lee's Summit, Jackson County, Missouri

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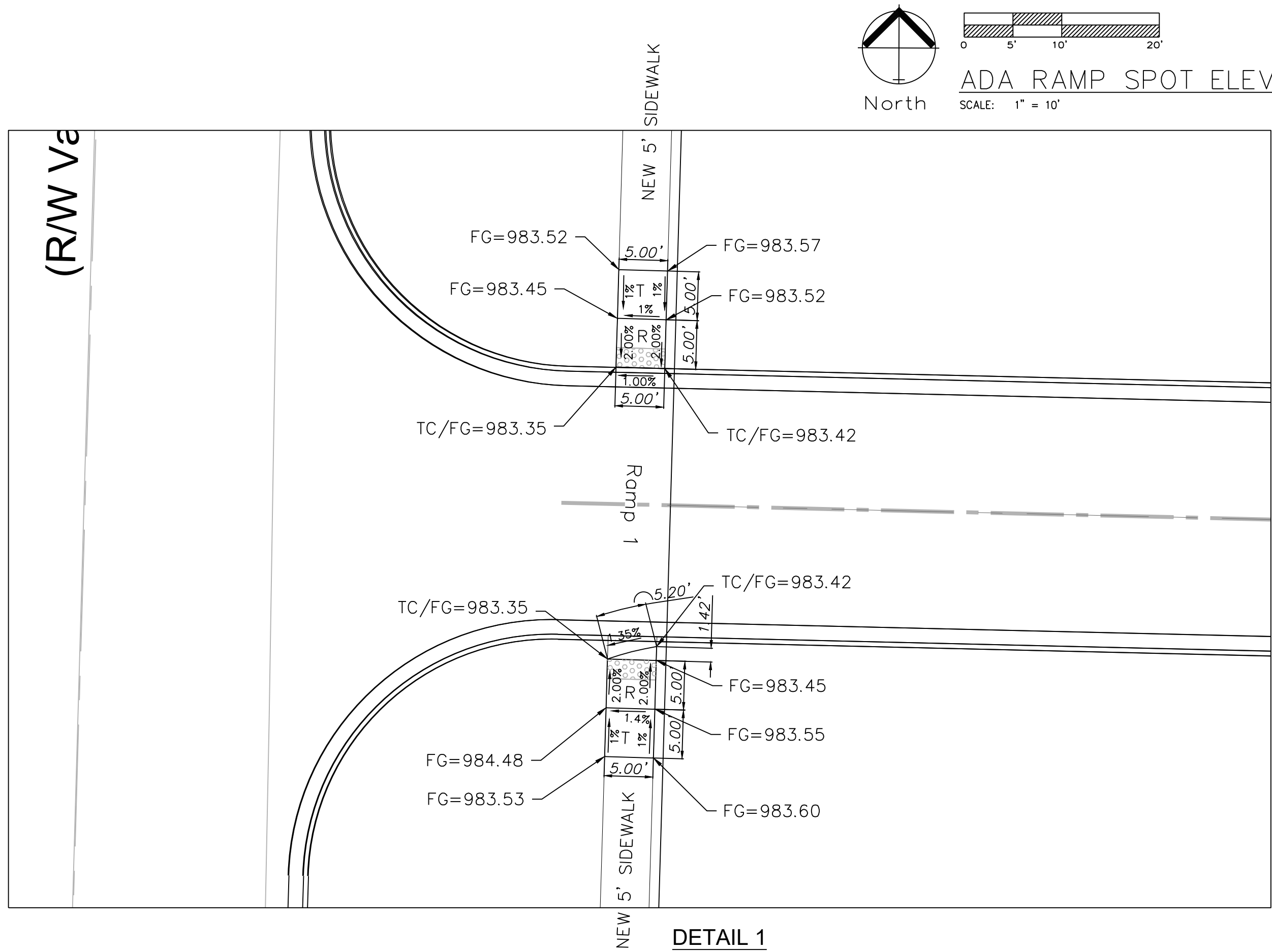
Street Plan and Profile  
Construction Plans for:  
Colbern Road Investments  
Lee's Summit, Jackson County, Missouri



Matthew J. Schlicht  
MO PE 2006019708  
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OK PE 25226  
NE PE E-14335

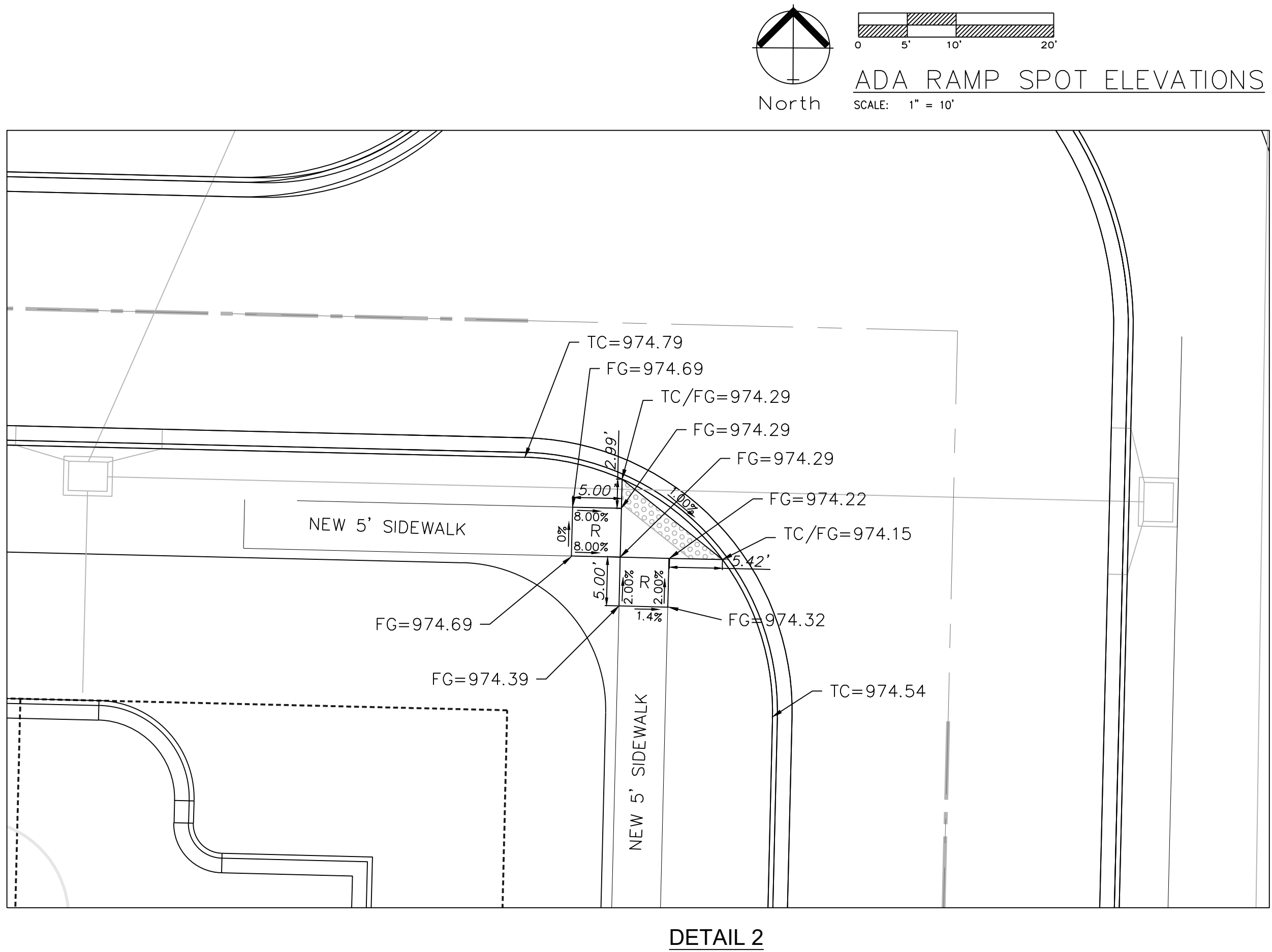
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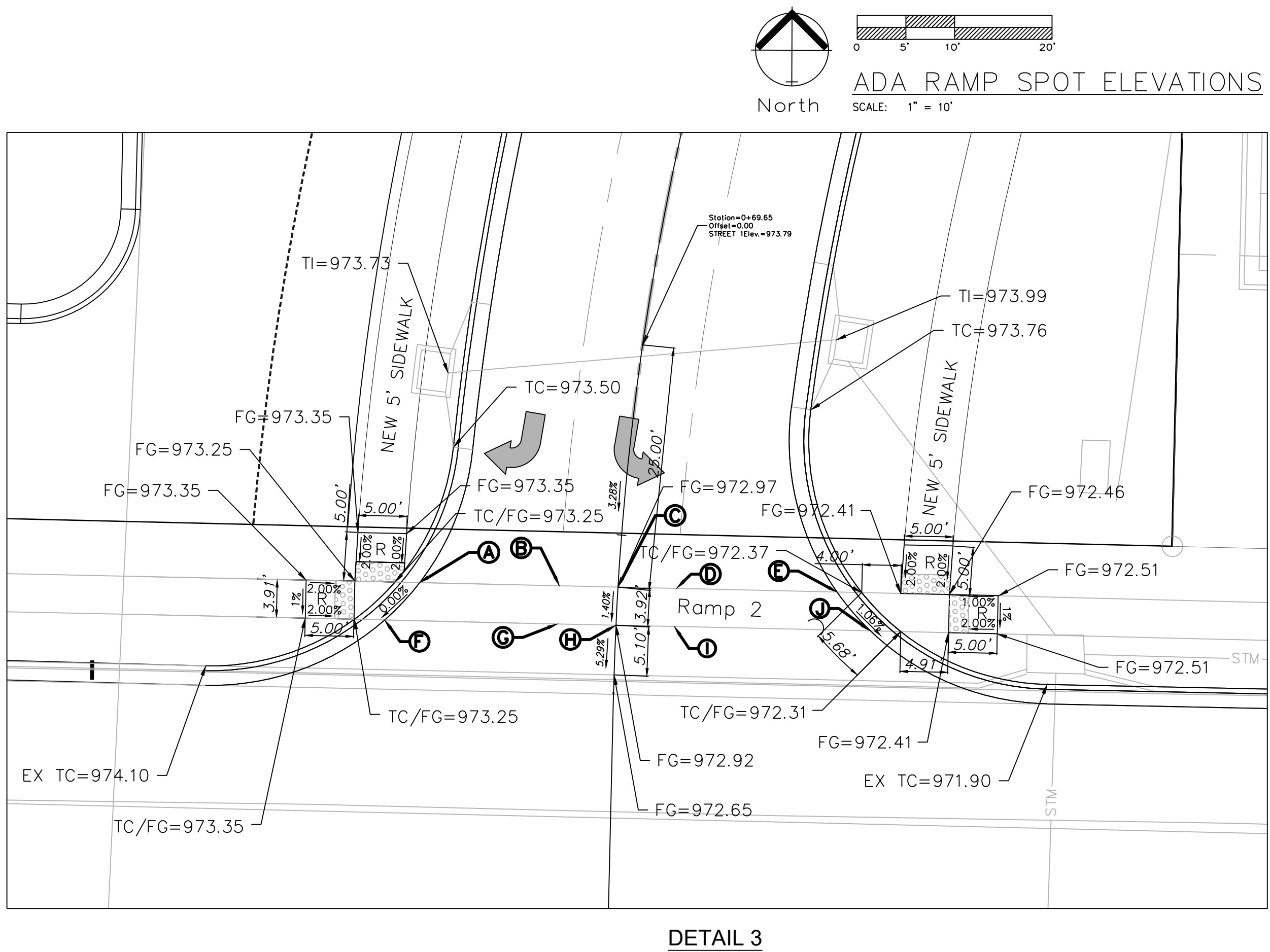
DETAIL 1

**Legend:**  
 EX TC = Existing Top of Curb  
 EX FG = Existing Finished Grade  
 FG = Finished Grade  
 TC = Top of Curb  
 TC/FG = Top of Curb/Finished Grade

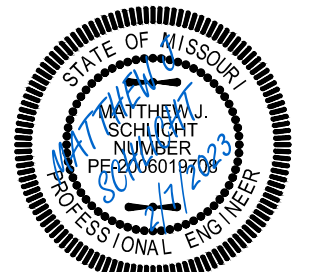


DETAIL 2

| SPOT ELEVATION TABLE |                  |                  |
|----------------------|------------------|------------------|
| Spot                 | Ramp 1 Elevation | Ramp 2 Elevation |
| A                    | 1038.06          | 1051.36          |
| B                    | 1037.46          | 1051.71          |
| C                    | 1037.34          | 1051.83          |
| D                    | 1037.22          | 1051.71          |
| E                    | 1036.95          | 1051.69          |
| F                    | 1038.14          | 1051.43          |
| G                    | 1037.53          | 1051.78          |
| H                    | 1037.41          | 1051.90          |
| I                    | 1037.29          | 1051.78          |
| J                    | 1036.88          | 1051.36          |



DETAIL 3



Matthew J. Schlicht  
 MO PE 2006019708  
 KS PE 19071  
 OK PE 25226  
 NE PE E-14335

REVISIONS  
 REV. 2/7/2023

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





CONTRACTOR TO CONSTRUCT STORMWATER MANAGEMENT FACILITIES, SPECIFICALLY THOSE FEATURES RELATED TO DETENTION, PRIOR TO ANY LAND DISTURBANCE OF THE SITE AND PRIOR TO THE CONSTRUCTION OF ANY OTHER SITE DEVELOPMENT WORK AS NOT TO EFFECT DOWNSTREAM NEIGHBORS WITH UNDETAINED STORMWATER DISCHARGE.

Unplatted

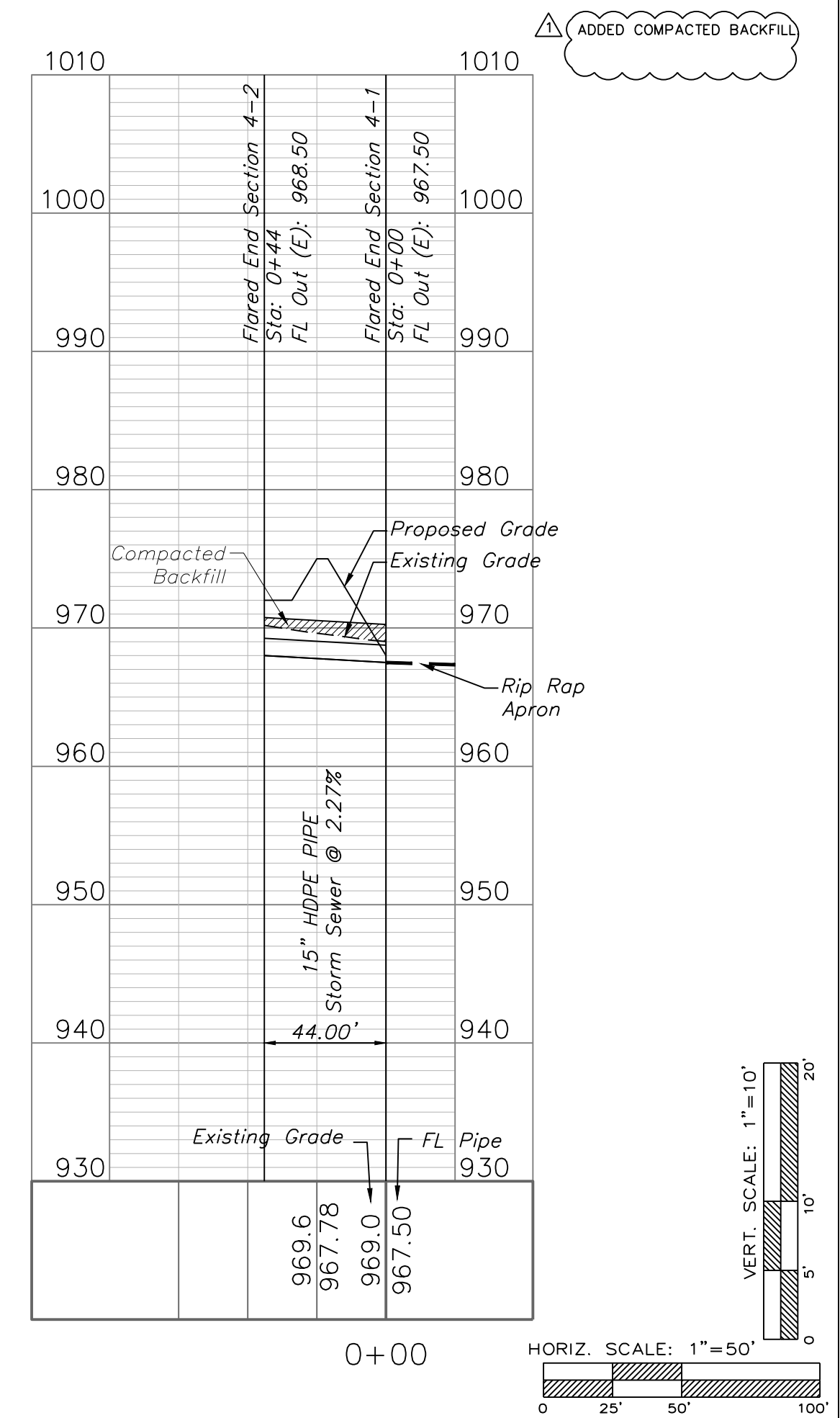
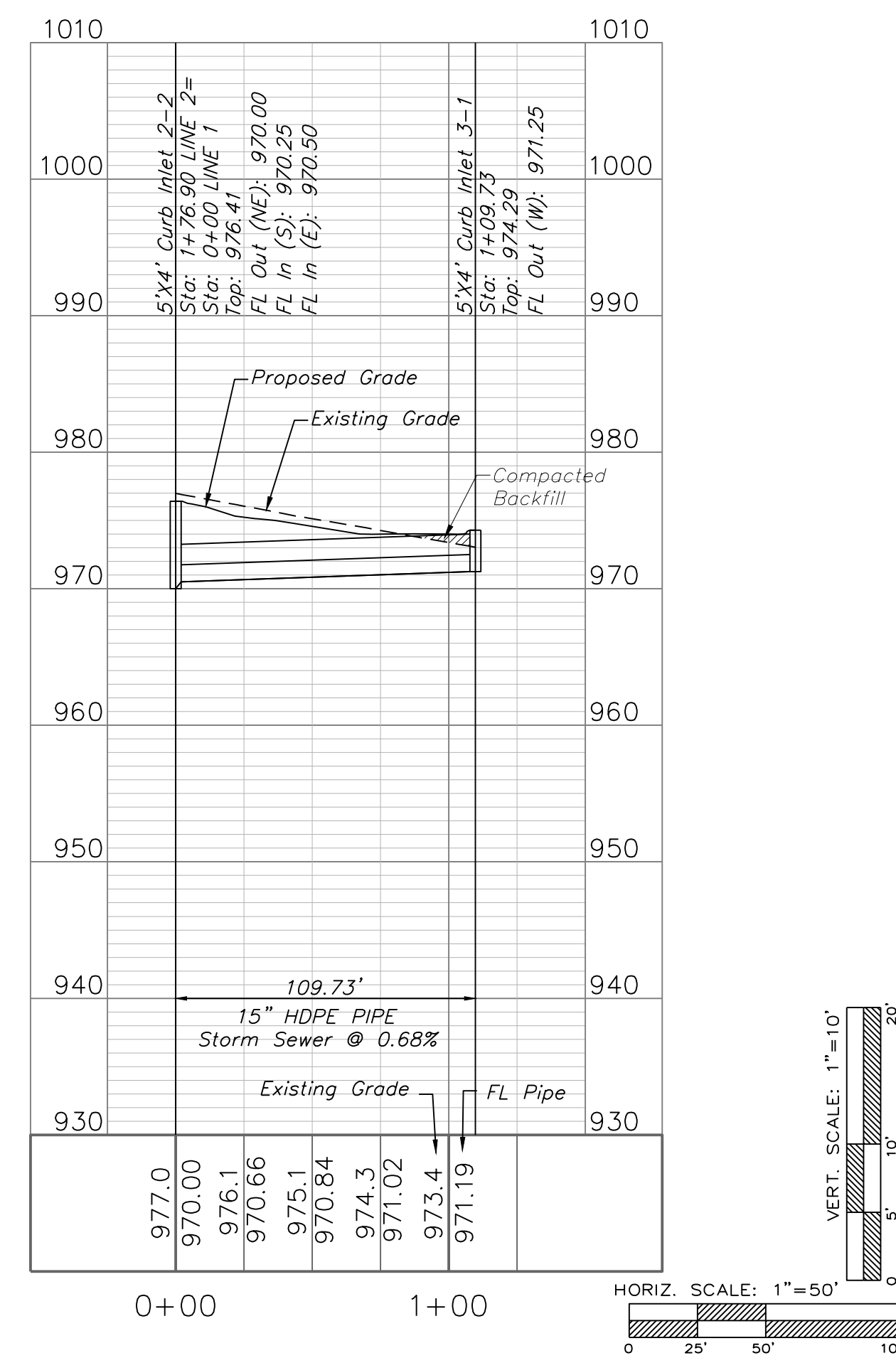
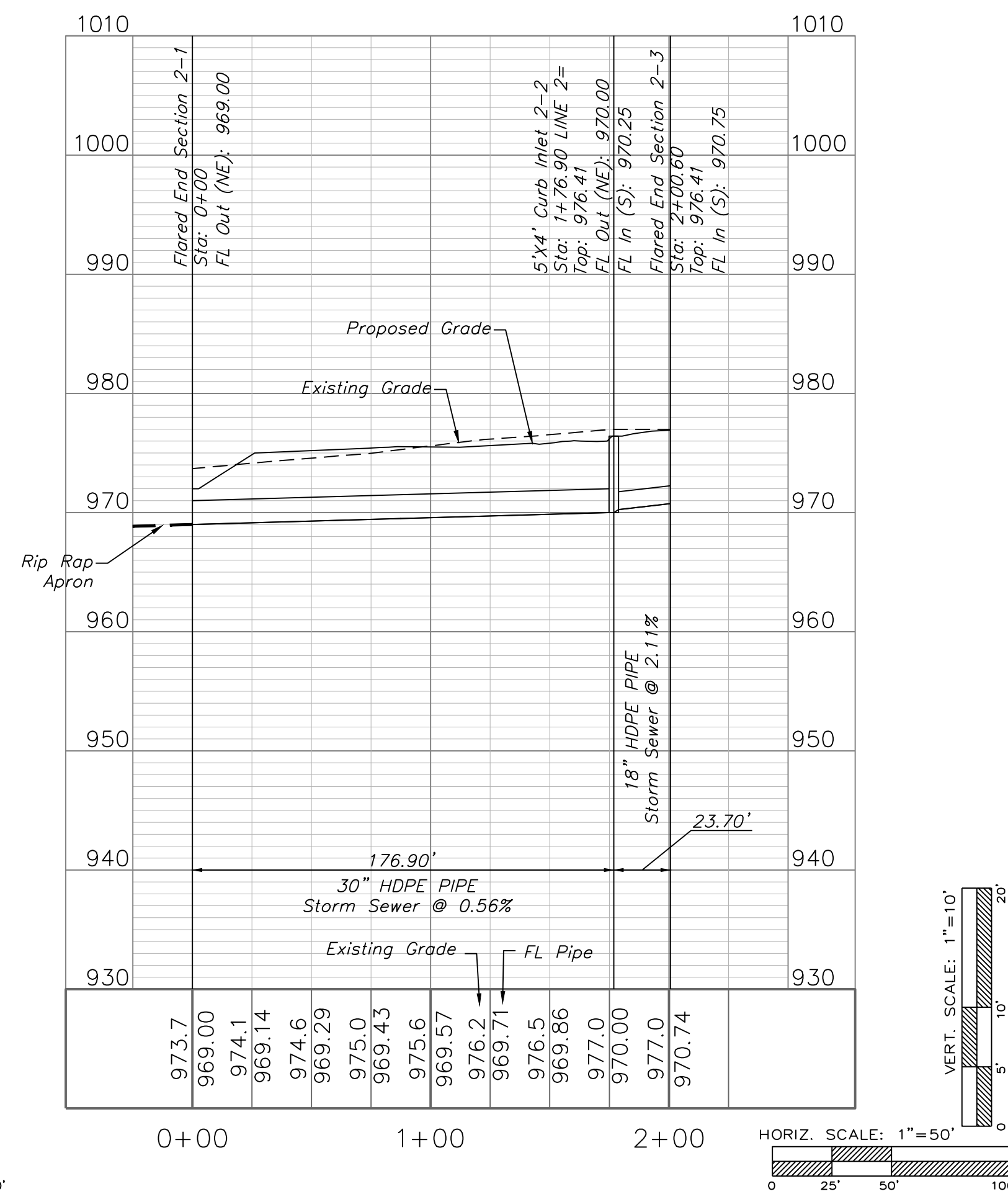
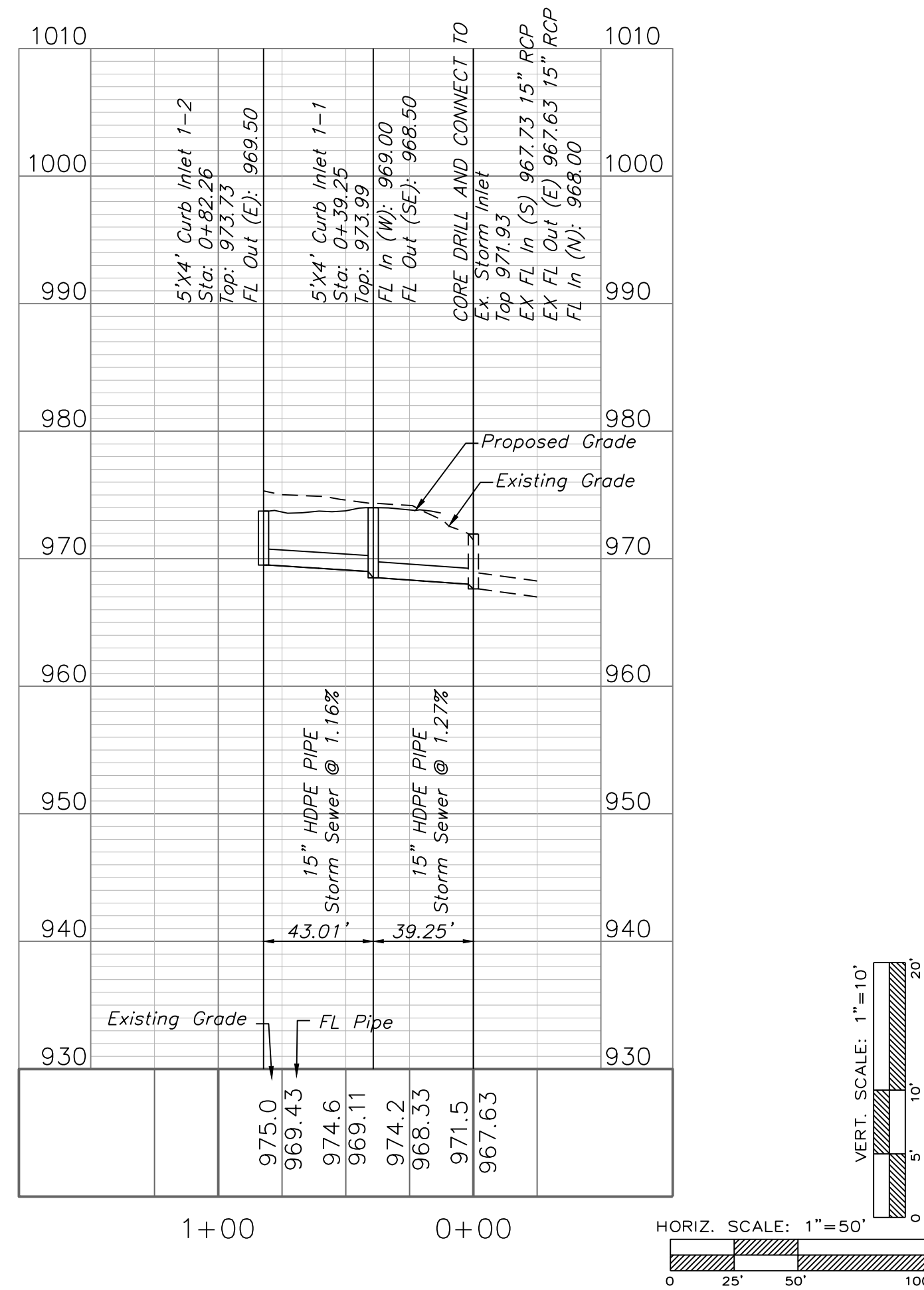
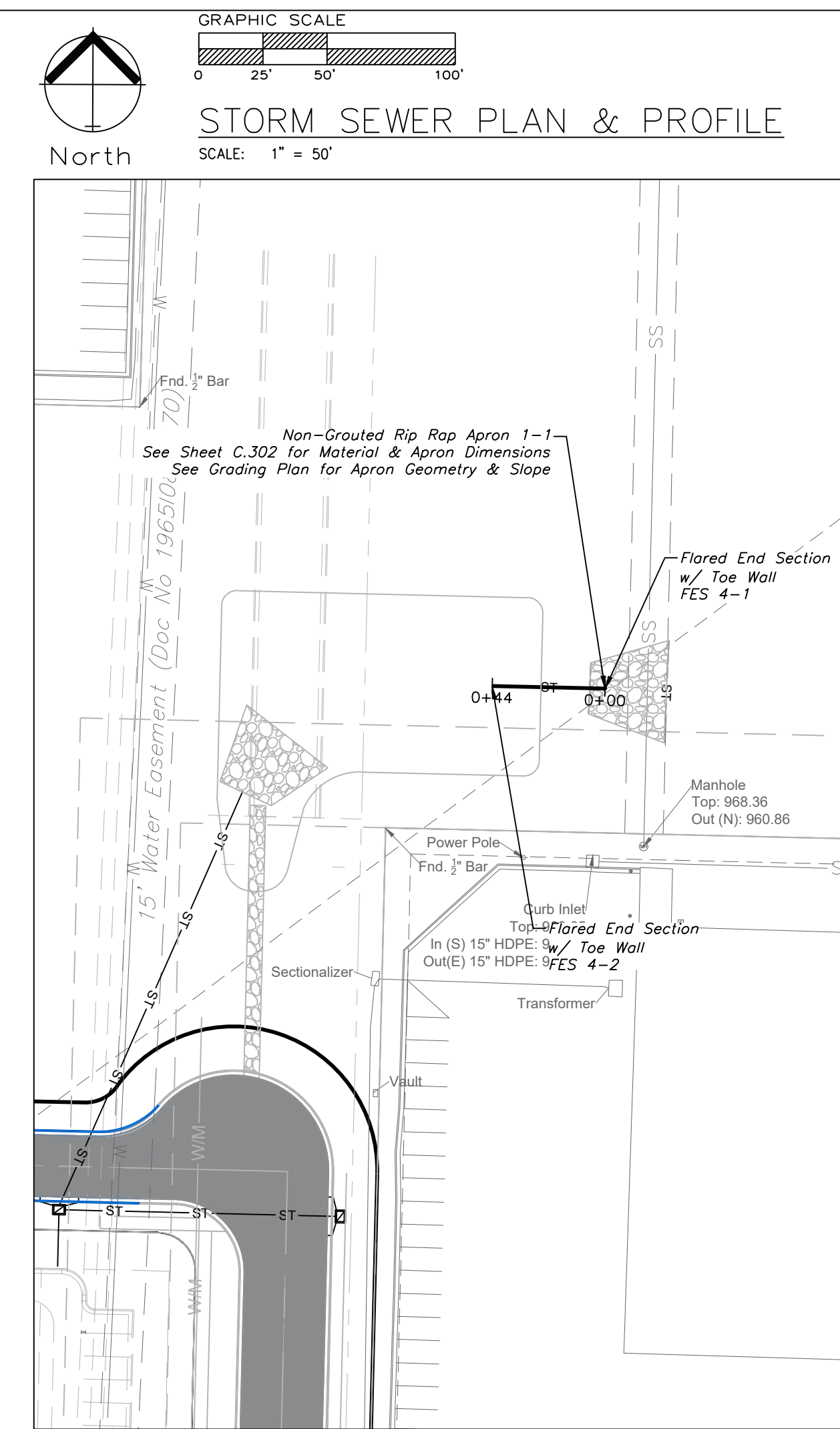
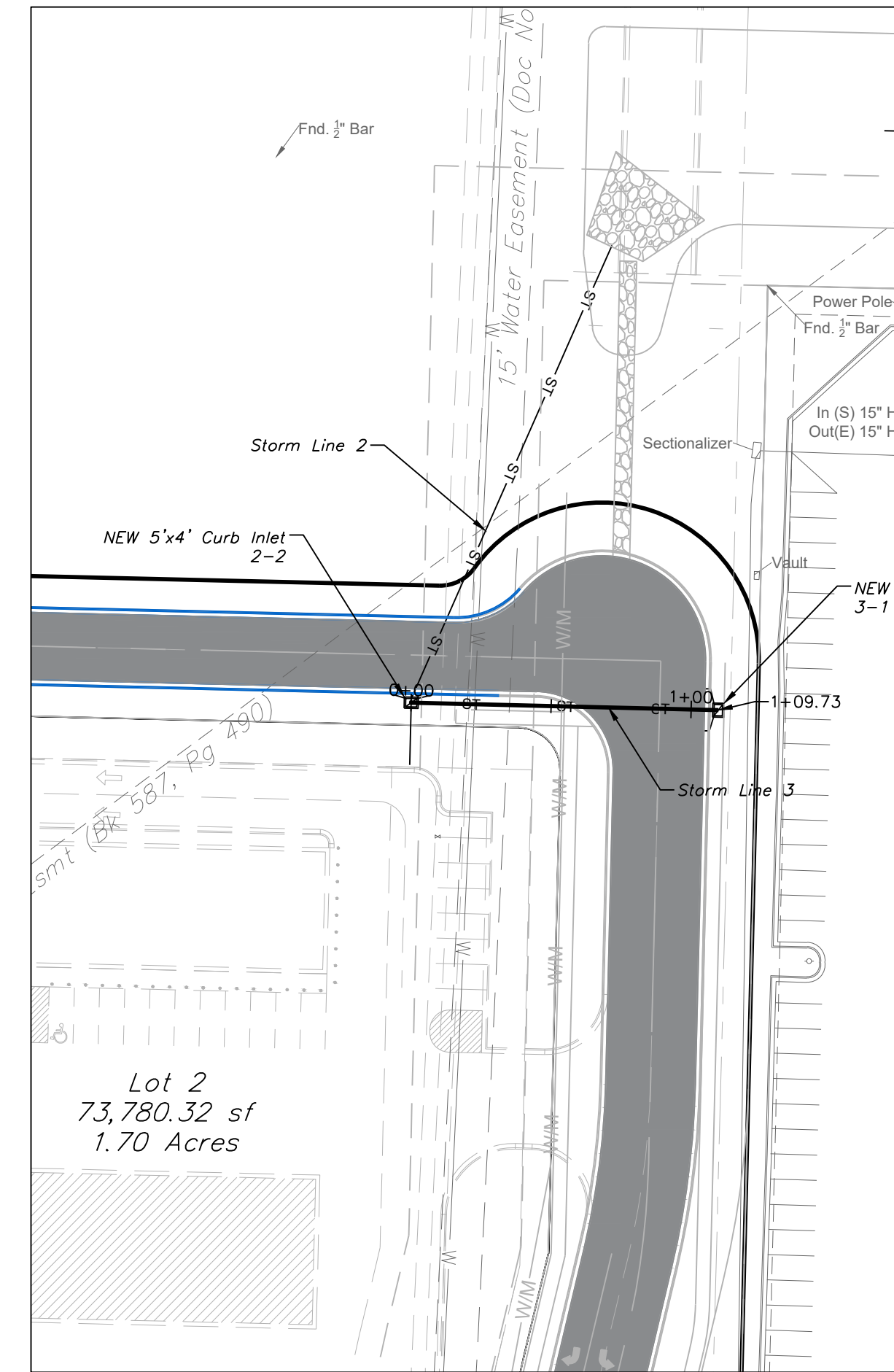
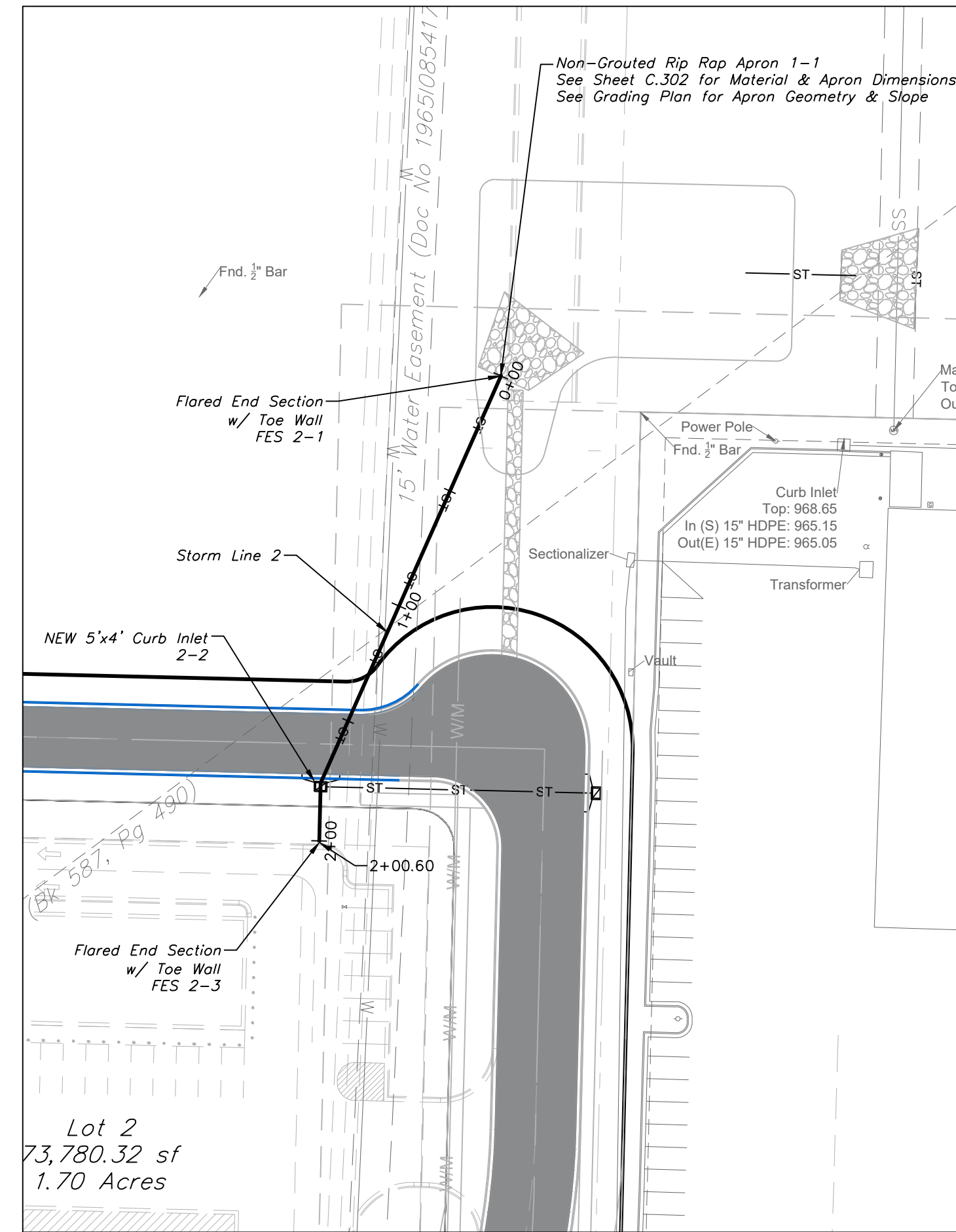
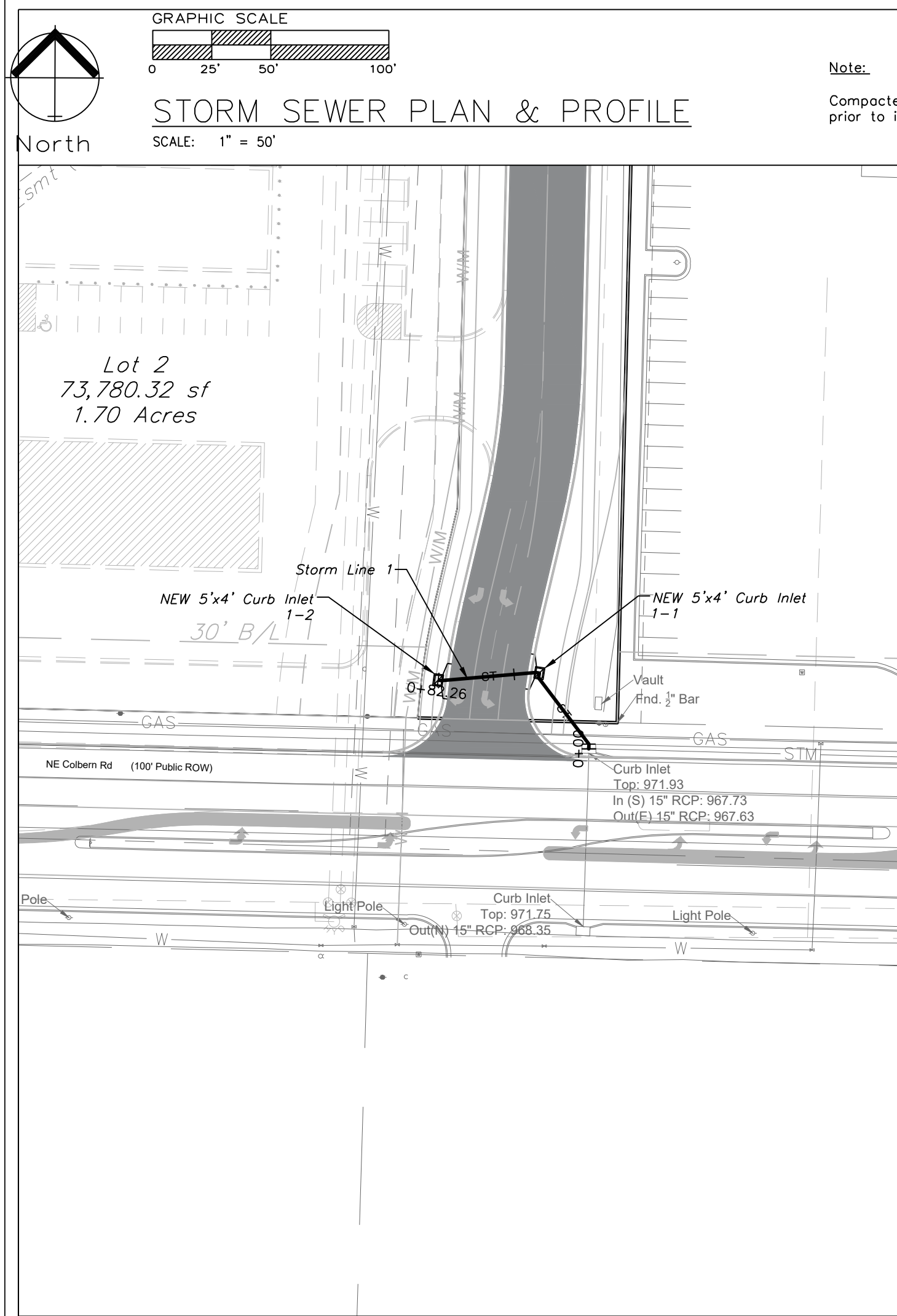
Existing  
Building

Lot 2  
73,780.32 sf  
1.70 Acres

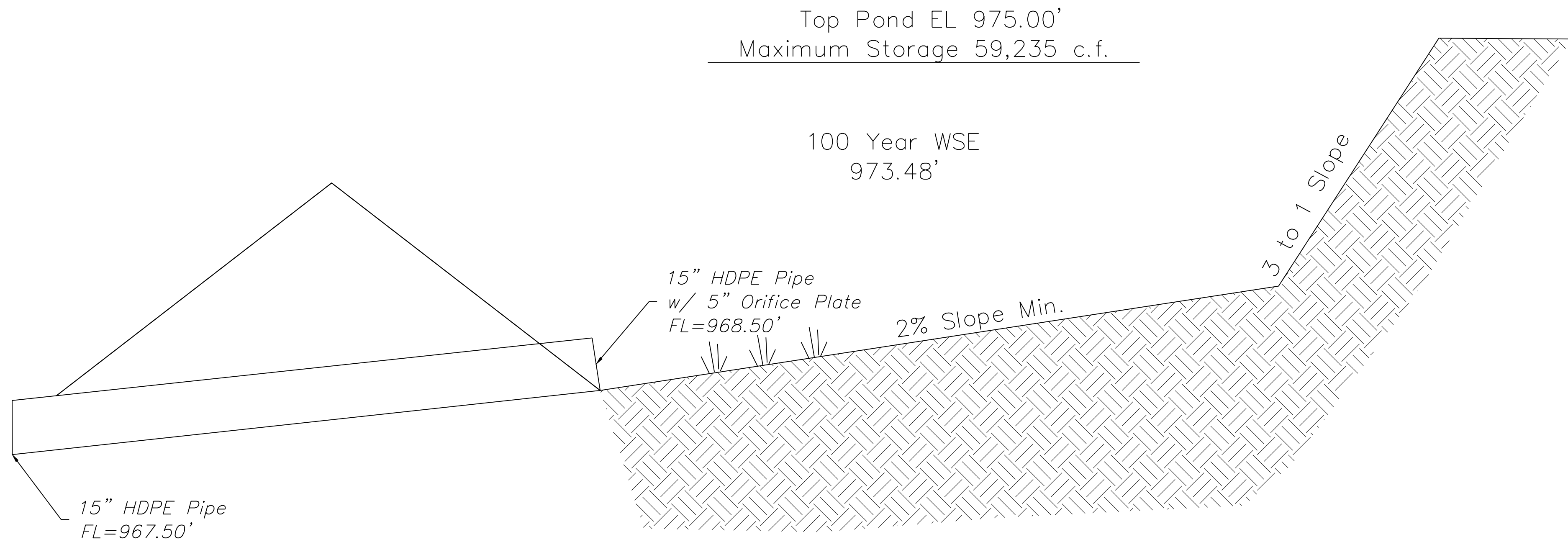
NE Colbern Rd (100' Public ROW)

C.30C

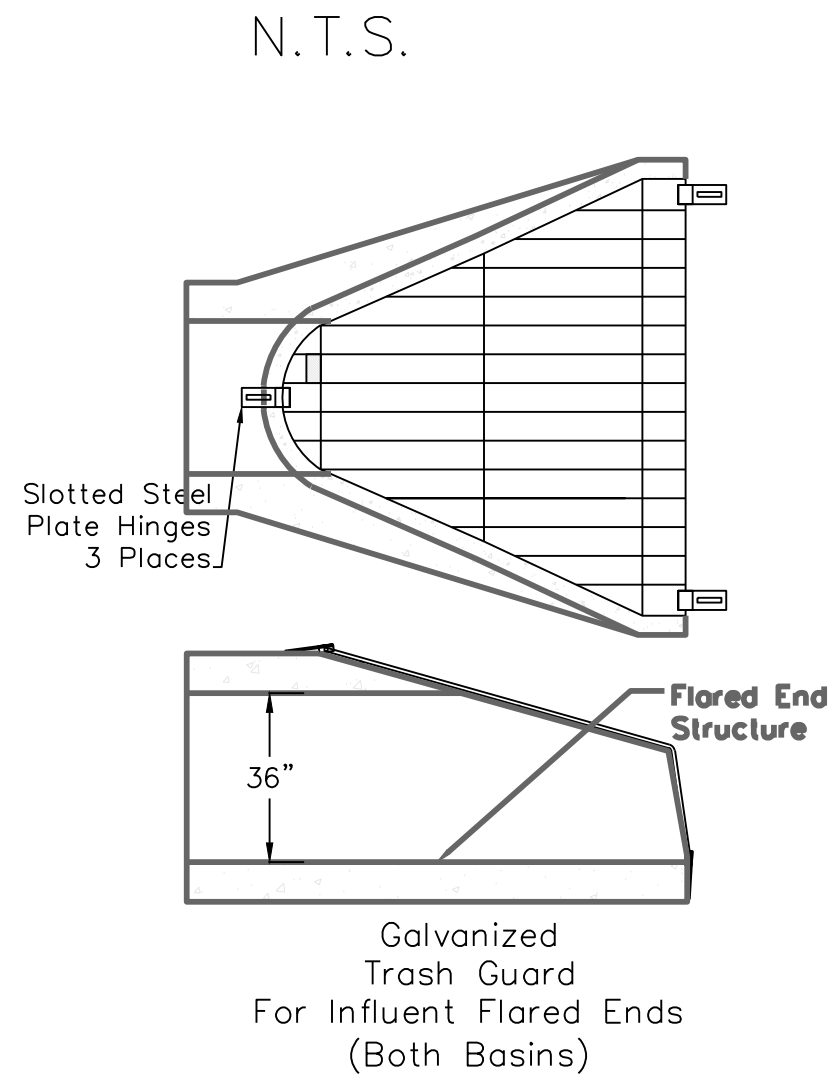
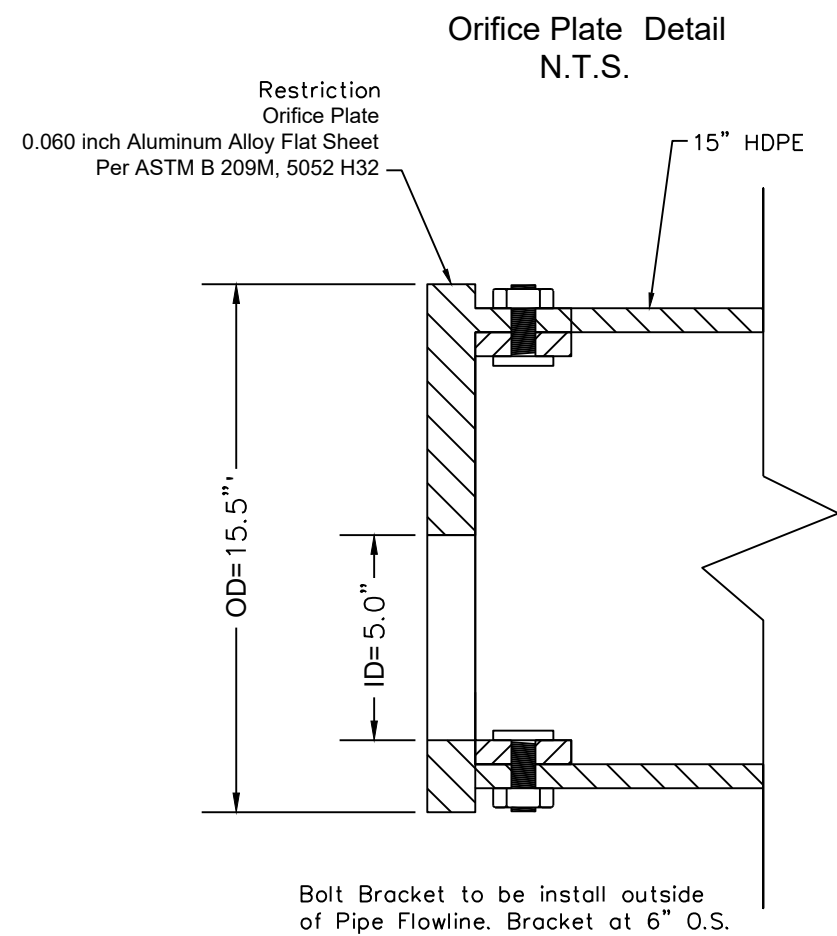








SECTION VIEW – BASIN



| Field End Section # | 1-1   |        |  |  |  |  |  |  |  |
|---------------------|-------|--------|--|--|--|--|--|--|--|
| Q =                 | 25.35 | cfs    |  |  |  |  |  |  |  |
| D =                 | 3     | ft     |  |  |  |  |  |  |  |
| Tw =                | 1.2   | ft     |  |  |  |  |  |  |  |
| g =                 | 32.2  | ft/s^2 |  |  |  |  |  |  |  |
| D <sub>50</sub> =   | 3.4   | inches |  |  |  |  |  |  |  |
| Use                 | 5     | inches |  |  |  |  |  |  |  |

|                                                           |  |
|-----------------------------------------------------------|--|
| D <sub>50</sub> = riprap size, m(ft)                      |  |
| Q = design discharg, m^3/s (ft^3/s)                       |  |
| D = culvert diameter (circular), m(ft)                    |  |
| Tw = tailwater depth, m(ft)                               |  |
| g = acceleration due to gravity, 9.81 m/s^2 (32.2 ft/s^2) |  |

|                                                    |  |
|----------------------------------------------------|--|
| *Taken From Publication No. FHWA-NHI-06-086        |  |
| Hydraulic Engineering Circular No. 14, 3rd Edition |  |

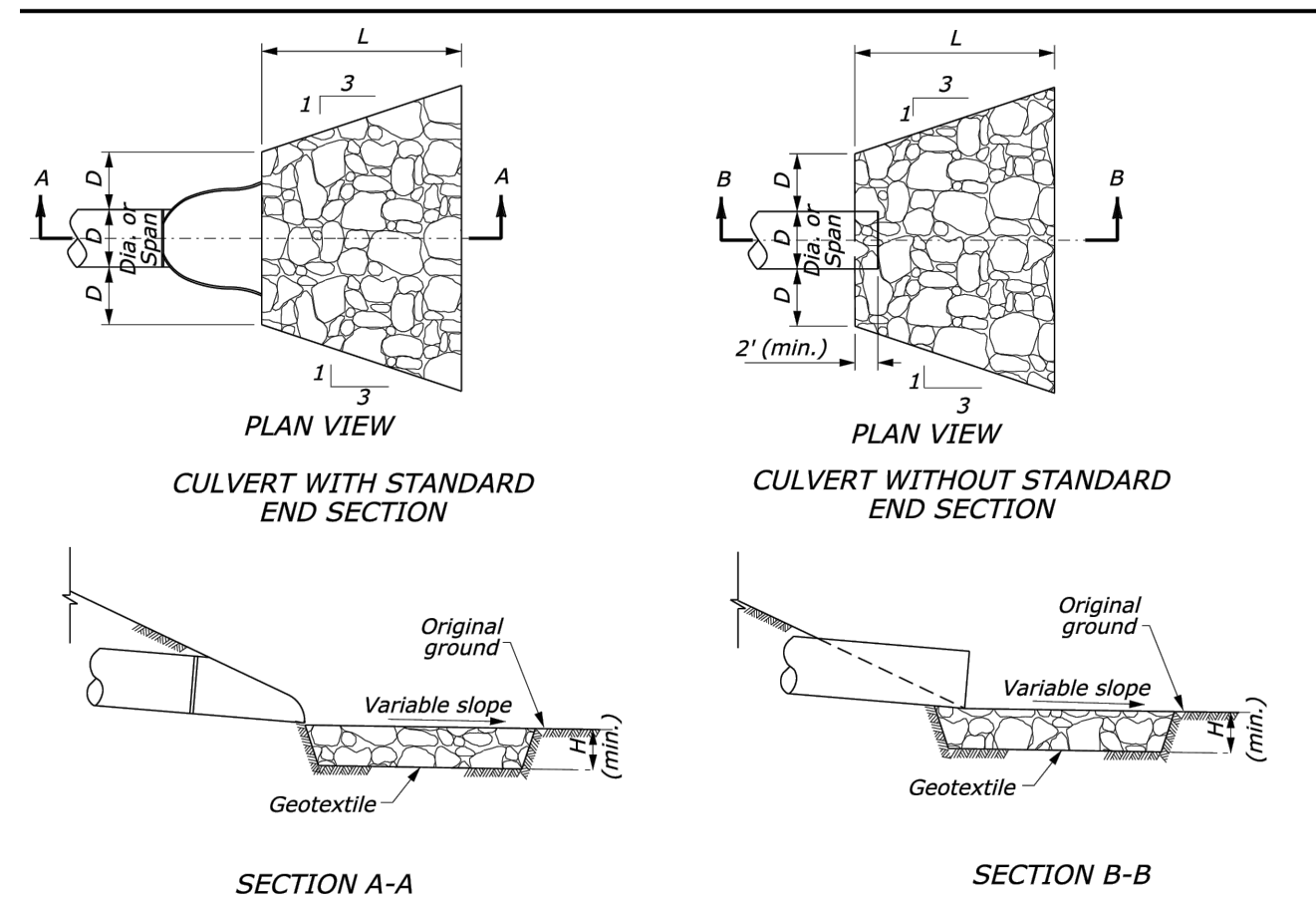
  

|                |                     |       |        |     |       |        |  |  |  |
|----------------|---------------------|-------|--------|-----|-------|--------|--|--|--|
| <b>Class 1</b> |                     |       |        |     |       |        |  |  |  |
| Apron Length = | 4*D                 | 12.00 | ft     | use | 12.00 | ft     |  |  |  |
| Apron Depth =  | 3.5*D <sub>50</sub> | 17.50 | inches | use | 18.00 | inches |  |  |  |
| Apron Width =  | 3*D+(2/3)L          | 17.00 | ft     | use | 17.00 | ft     |  |  |  |

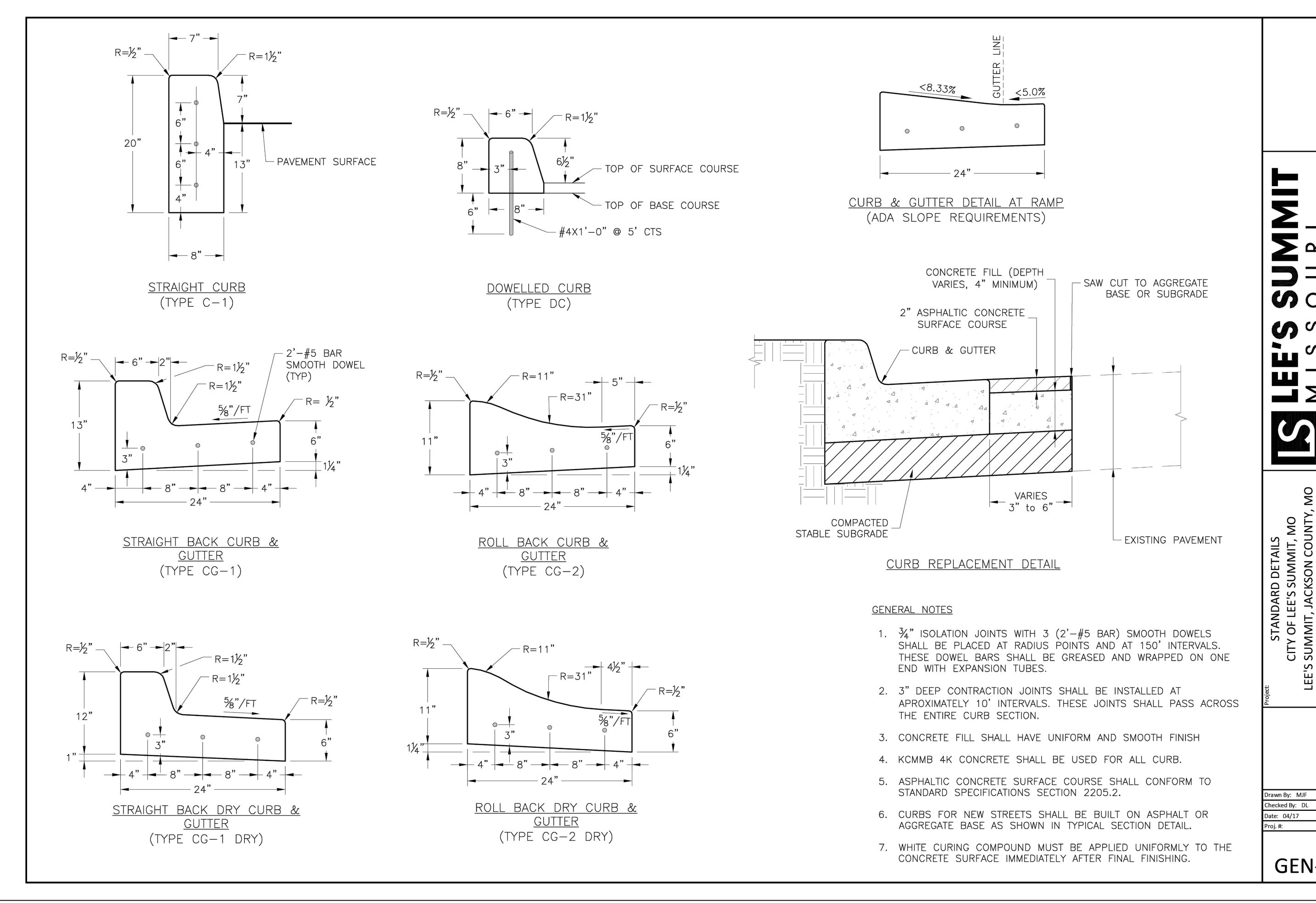
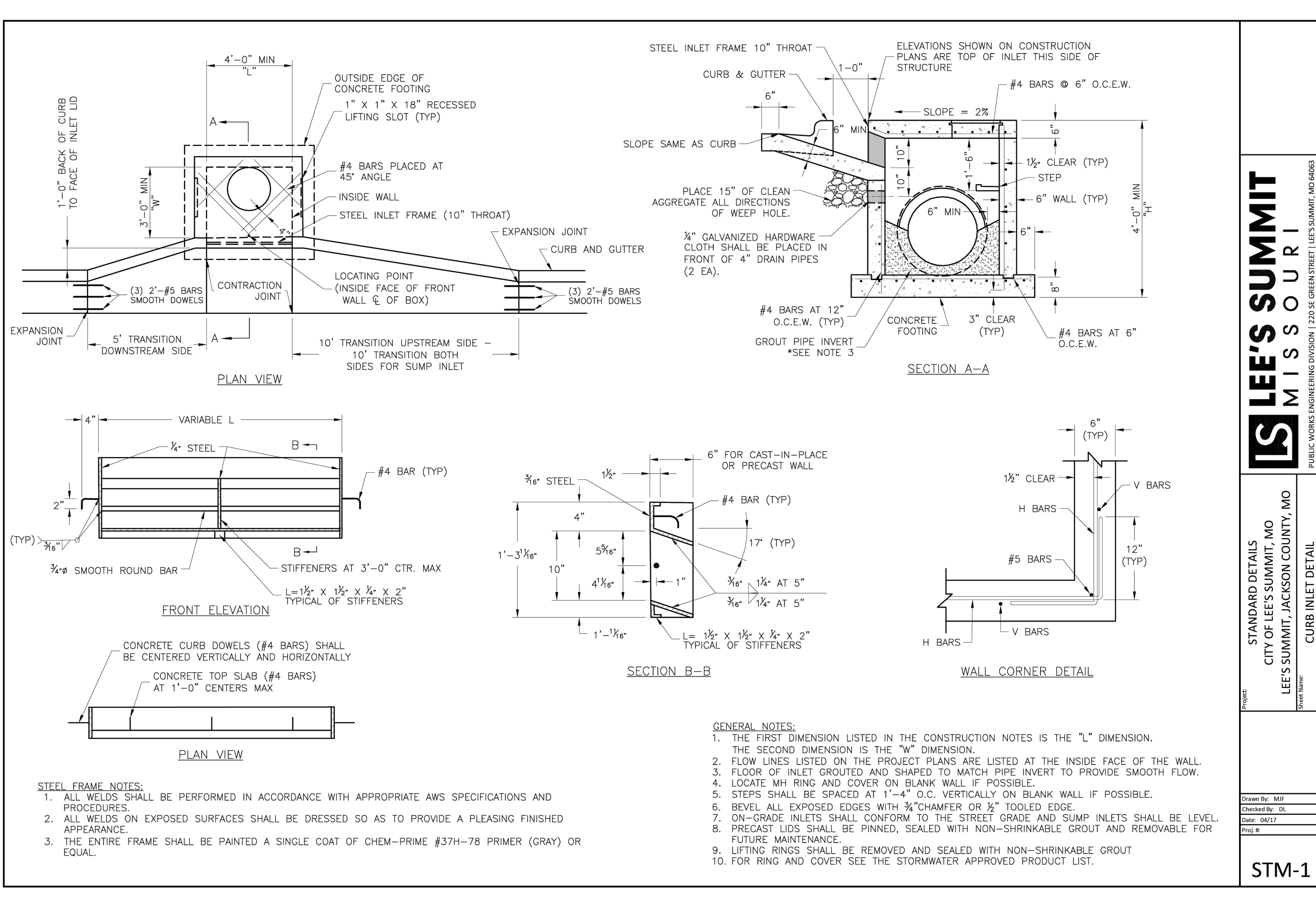
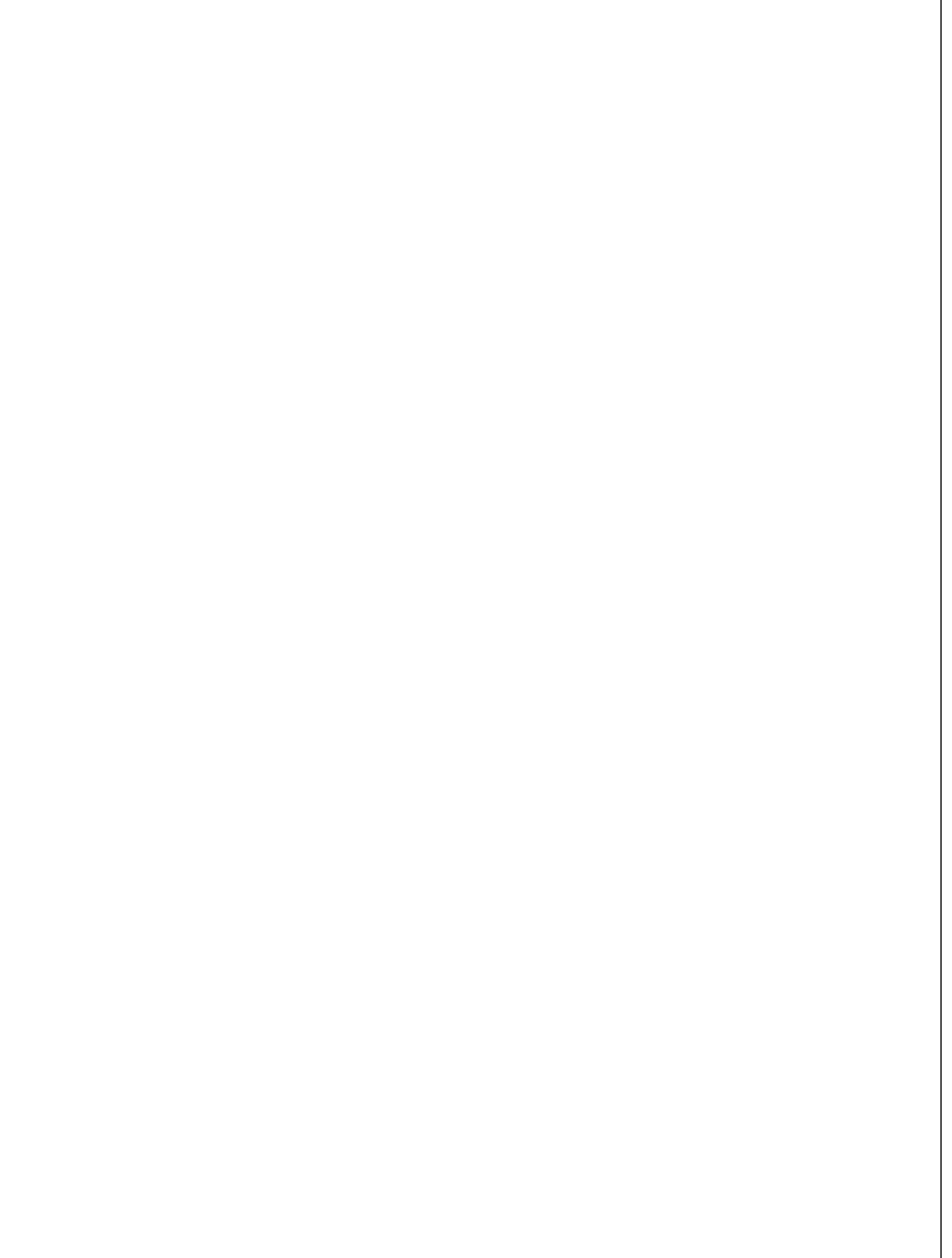
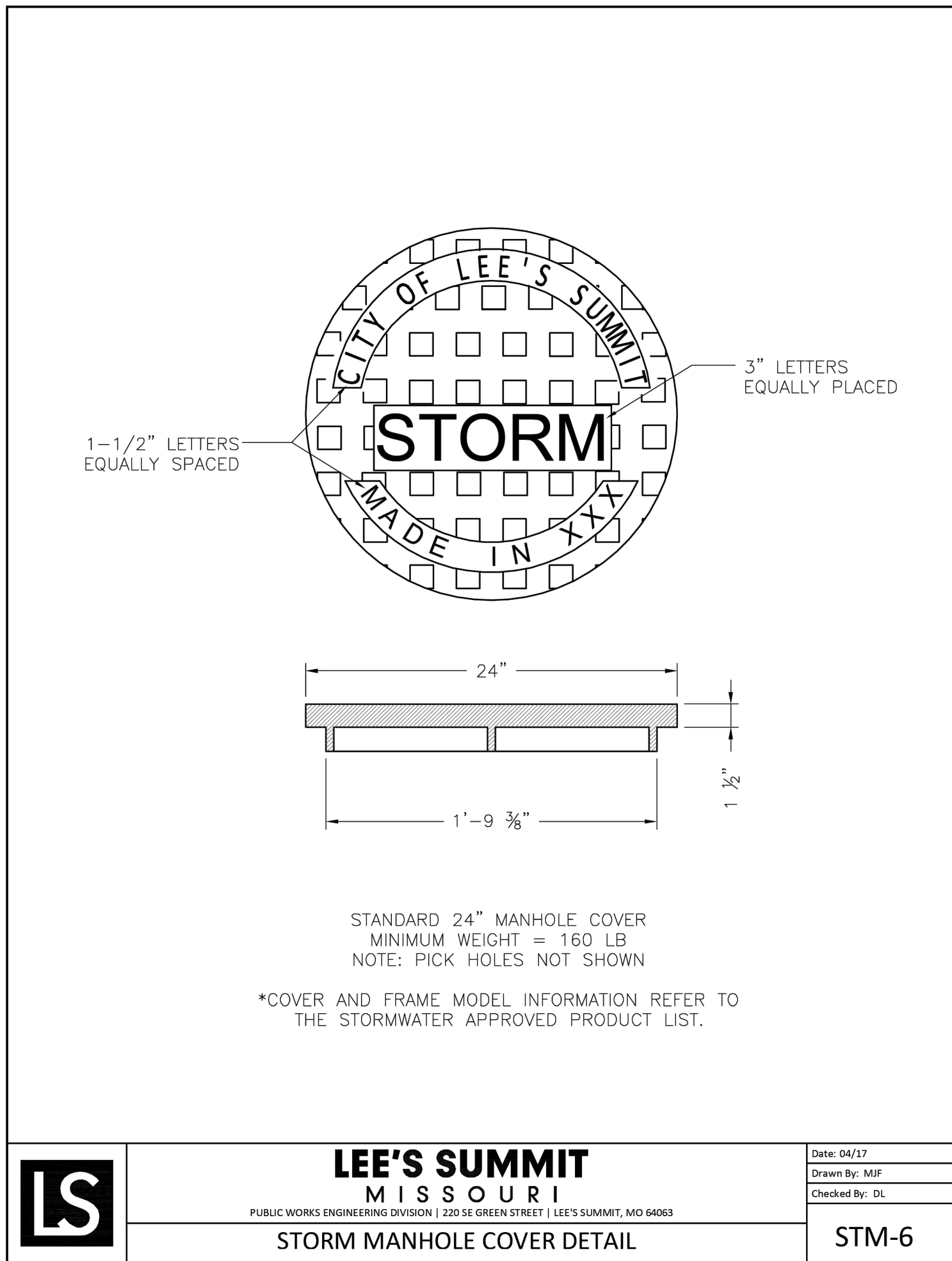
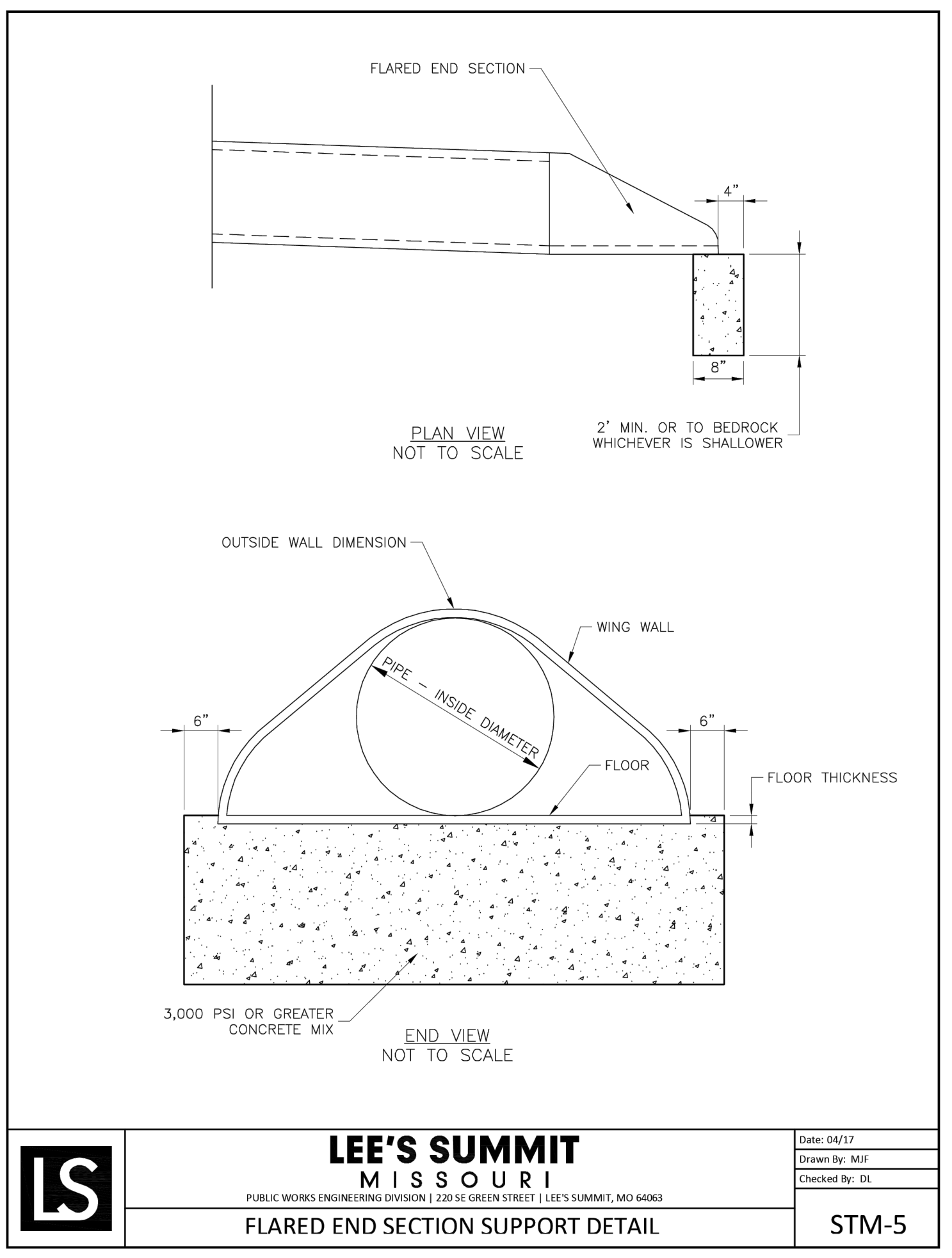
| RipRap Apron | Area (ac.) | Q100 (cfs) | Dia. (ft) | Class | D <sub>50</sub> (in) | Length (ft) | Depth (in) | Width (ft) | Slope (%) |
|--------------|------------|------------|-----------|-------|----------------------|-------------|------------|------------|-----------|
| 1-1          | 5.83       | 25.35      | 3         | 1     | 5                    | 12          | 18         | 17         | 2.00      |

STANDARD RIPRAP APRON DETAIL

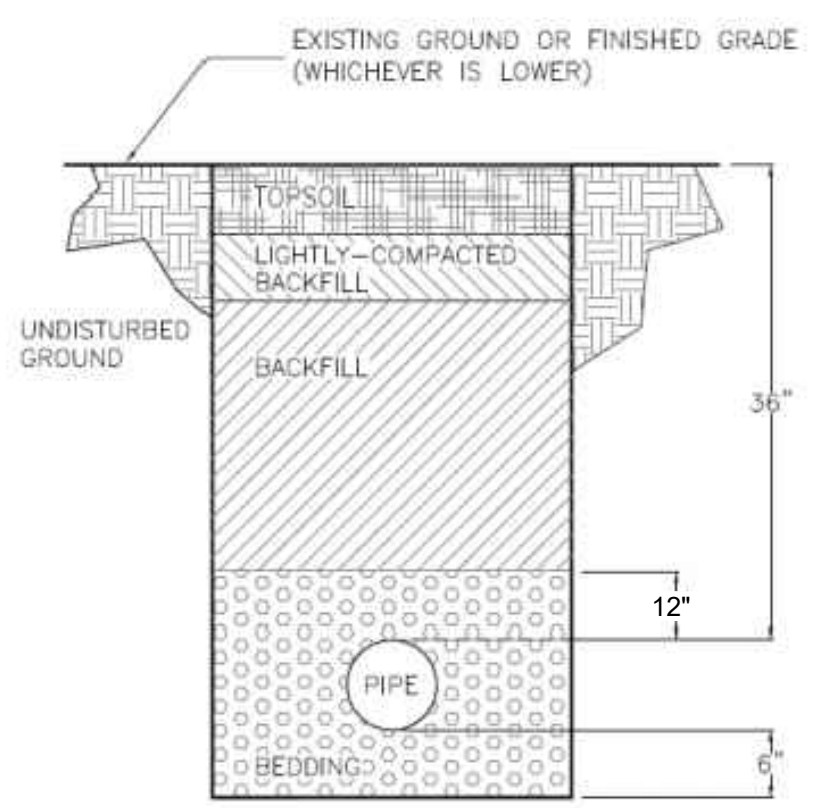


- NOTES:
1. ALL RIPRAP APRONS SHALL CONFORM TO THE STANDARD CONFIGURATION SHOWN IN THE STANDARD DETAIL ABOVE UNLESS OTHERWISE NOTED. PLAN VIEW DIMENSIONS SHOWN SHALL BE MET OR EXCEEDED INCLUDING AREAS OF LONGITUDINAL AND/OR TRANSVERSE SLOPE.
  2. DIMENSIONS FOR EACH RIPRAP APRON AND ASSOCIATED RIPRAP ARE DETAILED IN THE TABLE ABOVE.
  3. WIDTH REFERS TO DIMENSION OPPOSITE PIPE AND DEPTH IS DIMENSION H.
  4. GEOTEXTILE SHALL BE "GEI WORKS 4 OUNCE" NON-WOVEN FILTER FABRIC DESIGNED FOR FILTRATION, STABILIZATION AND SEPARATION WRAPPED CONTINUOUSLY ALONG THE SIDEWALLS AND BOTTOM OF THE PREPARED AREA OR SLOPE.
    - WATER FLOW = 120 GPM/SF
    - GRAB STRENGTH (MIN) = 400 N
    - PUNCTURE STRENGTH (MIN) = 178 N
    - TRAPEZOIDAL TEAR (MIN) = 133 N
    - ELONGATION (MIN) = 15%









TRENCH AND BACKFILL DETAIL  
N.T.S.

