

**SHEET INDEX:**

Title Sheet	1
Lines 1 & Ext. Detention Basin	2
Lines 2,3 & 4	3
Lines 5, 6	4
Line 7	5
Reference Grading Plan/ERU Plan	6
Reference Erosion Control Plan	7
Plat	8

Details: Available upon request &/or  
City of Wichita web site.

**PRIVATE STORM DRAIN IMPROVEMENTS**

to serve

**Northwest High School**

Lot 1, Block A, Northwest High School Addition

Private Project: 0251 PPD (067853)

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. - City Engineer

January 2016

**GENERAL NOTES:**

- Contractor will be required to provide notice to utility companies a minimum of forty-eight (48) hours prior to any excavation, as follows:  
*Kansas One-Call* 687-2470  
*The Contractor must notify the following in case of an emergency:*  
Cox Communications 262-4270  
Kansas Gas Service 1-888-482-4950  
Westar Energy 383-8650  
Black Hills Energy (Gas) 1-800-303-0357  
ATT 268-2245  
City of Wichita Water Dept. 268-4563  
City of Wichita Sewer Maint. 268-4024  
City of Wichita Storm Sewer Maint. 268-4090  
City of Wichita Traffic Maint. 268-4034
- Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- All disturbed R/W areas not intended for pavement or sidewalk construction shall be seeded with Kansas Premium Fescue Blend at a rate of 8 lb./1000 Sq. Ft., fertilized with a 16-20-6 ratio at a rate of 4 lb./1000 Sq. Ft., and mulched with Prairie Hay at a rate of 92 lb./1000 Sq. Ft. Mulch shall be "patted" with forks or punched into soil to reduce loss due to wind.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- Contractor shall furnish the inspector with a copy of the manufacturer's certification for any pipe used on this project after completion of pipe installation. The engineer will not certify the project to the city until pipe certification has been received.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- All sewer lines and appurtenances shall be installed in accordance with the most recent edition of City of Wichita, Kansas Standard Specifications for the Construction of City Projects.
- Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Contractor shall not start on the project until all necessary bonds and permits have been obtained. Bonds may include but are not limited to Statutory, Performance & Maintenance. Any work done without inspection will be required to be uncovered for inspection.
- Existing property & control Irons are noted on the title sheet are to be used to locate the proposed improvements. The Contractor is not to assume these locations are per the state plan coordinate system.
- Contractor to remove concrete sidewalk to the nearest construction joint if within 3' of joint. Saw cut if over 3' from joint. Removal and replacement of pavement shall not be paid for directly, but shall be considered incidental to other items in the project.
- The Contractor shall be responsible for replacing shown property from that area damaged or removed during construction. The Contractor shall procure a licensed Land Surveyor to locate and re-install the property iron.
- All Erosion Control measures will comply with City Erosion Control Standards.
- These improvements are Private and are the responsibility of the owner to inspect and maintain per the PPD Operations and Inspection Manual.

**BENCHMARK**

BENCH MARK #1: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.5' NORTH OF THE WESTERLY MOST BUILDING CORNER  
ELEVATION = 1348.90 (NAVD88)

BENCH MARK #2: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE EAST SIDE OF CURVED DRIVE ON THE WEST SIDE OF NORTHWEST HIGH SCHOOL, SIDE SIDE OF SIDEWALK RAMP, 131'± WEST OF THE WESTERLY MOST BUILDING FACE  
ELEVATION = 1347.62 (NAVD88)

BENCH MARK #3: CHISELED SQUARE WITH DIVOT ON THE NORTHWEST CORNER OF A CONCRETE WATER VAULT, BETWEEN BALL FIELDS ON THE EAST SIDE OF NORTHWEST HIGH SCHOOL, 168' EAST- NORTHEAST OF EASTERLY MOST BUILDING CORNER  
ELEVATION = 1348.11 (NAVD88)

BENCH MARK #4: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE NORTHERLY SIDE OF DRIVE ENTRANCE, NORTHEAST OF NORTH PARKING AREA, 36' NORTHERLY OF NORTHWEST CURB RETURN, 275'± SOUTH OF CENTERLINE OF 13TH STREET NORTH, NORTHWEST HIGH SCHOOL  
ELEVATION = 1348.75 (NAVD88)

BENCH MARK #5: CHISELED SQUARE WITH DIVOT ON THE CONCRETE WALK ON THE WEST SIDE OF THE NORTH ENTRANCE TO THE TENNIS COURTS, WEST OF THE FOOTBALL FIELD  
ELEVATION = 1346.40 (NAVD88)

**Site ERU Information**

Total Area: ±6,625,326 sq. ft. (152.01 acres)  
Existing Impervious Area: ±1,049,380 sq. ft. (24.09 acres)  
Parking, Sidewalk, Athletics: ±768,250 sq. ft. (17.64 acres)  
Buildings, & Portable Bldgs.: ±281,130 sq. ft. (6.45 acres)  
Addition & Renovations: ±479,970 sq. ft. (11.02 acres)  
Impervious Area Removed: ±66,630 sq. ft. (1.53 acres)  
Added Building Area: ±56,200 sq. ft. (1.29 acres)  
Added Impervious Area: ±44,150 sq. ft. (1.01 acres)  
Regraded Pervious Area: ±370,620 sq. ft. (8.51 acres)  
Add Alternate (Concession): ±10,760 sq. ft. (0.25 acres)  
Post Const. Impervious Area: ±1,083,860 sq. ft. (25.11 acres)  
Parking, Sidewalk, Athletics: ±745,770 sq. ft. (17.12 acres)  
Buildings, & Portable Bldgs.: ±337,330 sq. ft. (7.74 acres)  
Add Alternate (Concession): ±10,760 sq. ft. (0.25 acres)

**Stormwater Compliance**

Downstream Channel Protection and Water Quality Protection will be addressed with a proposed Extended Dry Detention Basin. Water Quality Volume to be treated for this project (WQv=14,280 sq. ft.) has been addressed with the Extended Dry Detention Basin. Downstream Channel Protection (CPv = 33,470 cu.ft.), This improvement has been developed to satisfy Section 16.32 of the City Code.

APPROVED AS NOTED  
BY CITY ENGINEER OF WICHITA

Engineering *Rebecca Guil* 2/10/2016  
Stormwater *Joe Hubbell PE* 2/10/16

NOTE TO CONTRACTORS

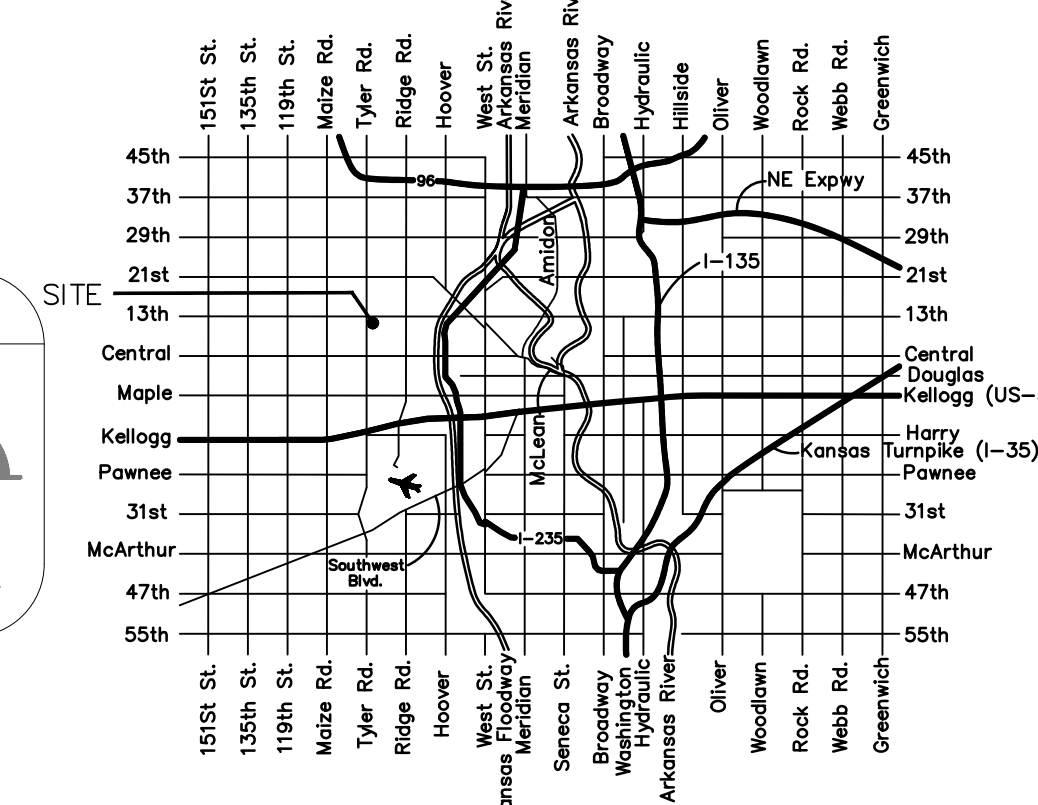
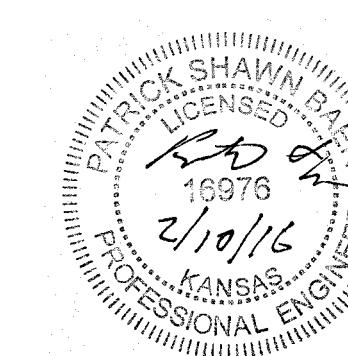
Installation, inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

**AS BUILTS**

Contractor: **Ewertz Excavation**  
Project Inspector: **Matt Perez**

4/29/2016

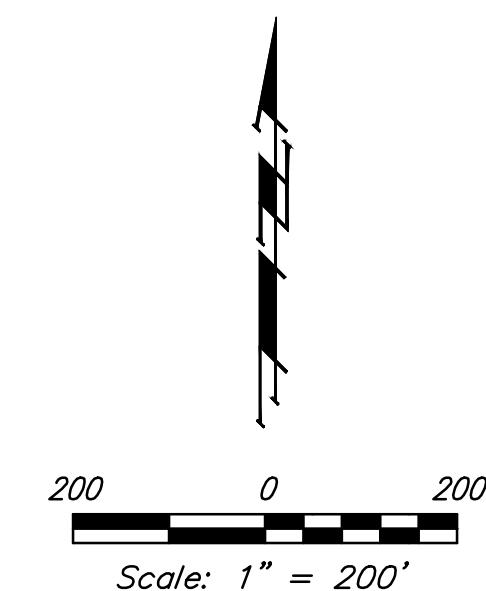
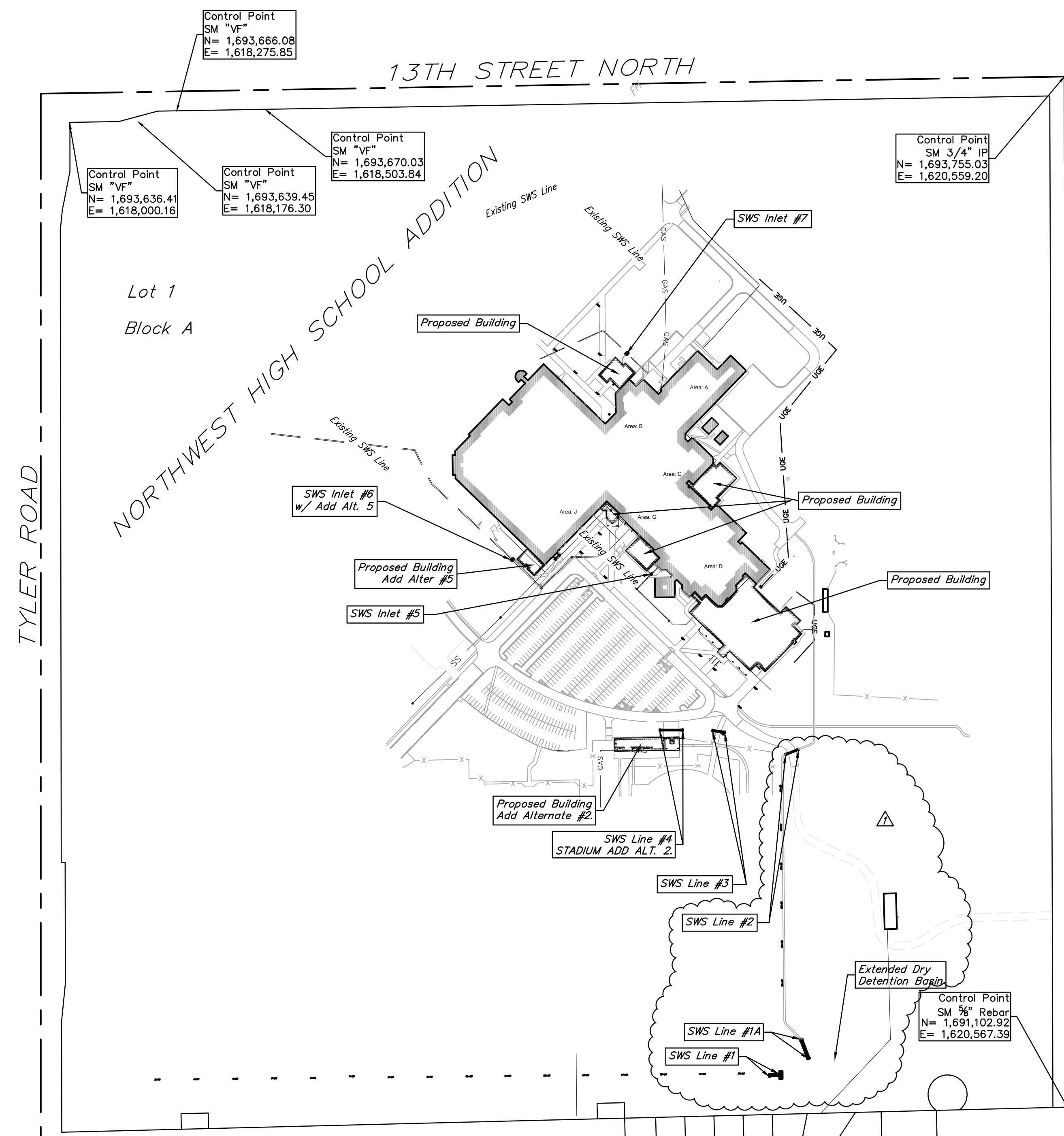
**KEMILLER ENGINEERING PA**  
117 E. Lewis, Wichita, KS 67202 (316)264-0242



**VICINITY MAP**

E:\Projects\USD 259 NW High Site Plans (13-07-E935)\Engineering\NW High PPD rev1-26-16.dwg

**Baughman**  
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 F 316-263-2271 F 316-262-0149  
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

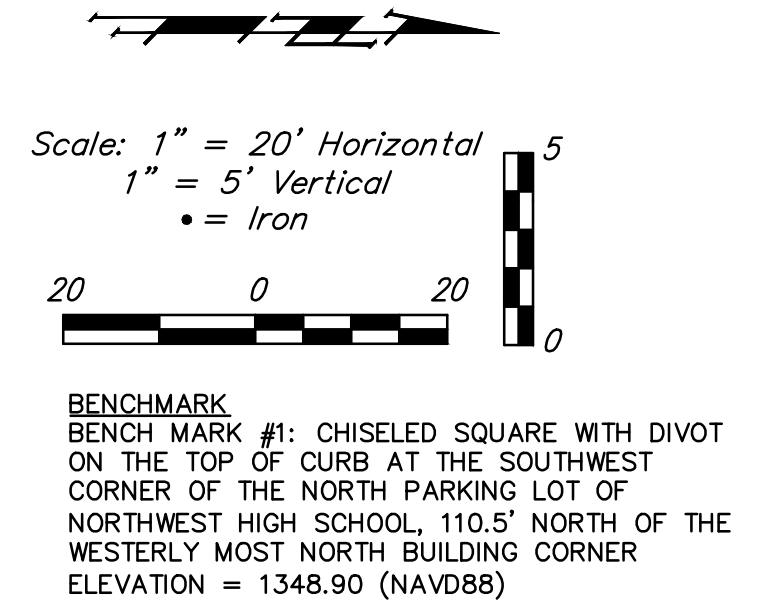
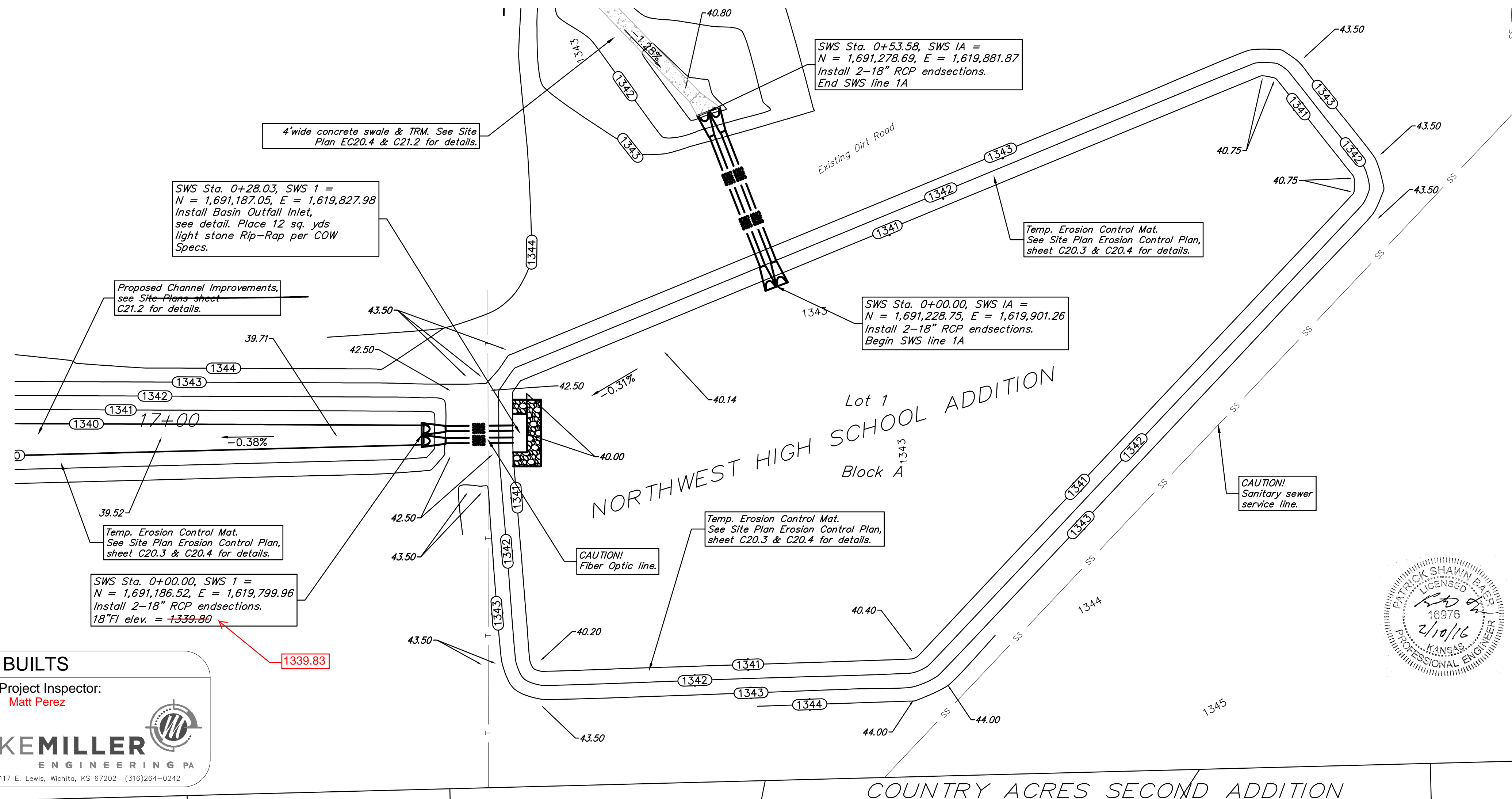


# Stormwater Compliance

Downstream Channel Protection and Water Quality Protection will be addressed with a proposed Extended Dry Detention Basin. Water Quality Volume to be treated for this project (WQv=14,280 sq. ft) has been address with the Extended Dry Detention Basin.

Downstream Channel Protection is addressed by the total detention time exceeding 48 hours is 23.8 hours for the proposed Ex. Detention Basin, (CPv = 33,470 cu.ft.).

This improvement has been developed to satisfy Section 16.32 of the City Code.



**Extended Detention Runoff:**  
Cumulative runoff from Existing Parking lot & Gym Area

Post SWS Drainage:	Existing Drainage:
D.A. = 7.82 acres	D.A. = 7.82 acres
Tc = 15 min.	Tc = 15 min.
CN = 95	CN = 94
Q1 = 17.1 cfs	Q1 = 16.2 cfs
Q2 = 22.0 cfs	Q2 = 21.0 cfs
Q3 = 28.9 cfs	Q3 = 28.0 cfs
Q10 = 33.7 cfs	Q10 = 32.8 cfs
Q25 = 39.9 cfs	Q25 = 39.0 cfs
Q50 = 45.4 cfs	Q50 = 44.5 cfs
Q100 = 51.5 cfs	Q100 = 50.7 cfs

Elevation	Area	Volume
1340.0	20,410	5,270
1341.0	21,930	10,560
1342.0	24,575	33,800
1343.0	27,320	59,730
1343.5	28,730	73,740

### Extended Detention Basin

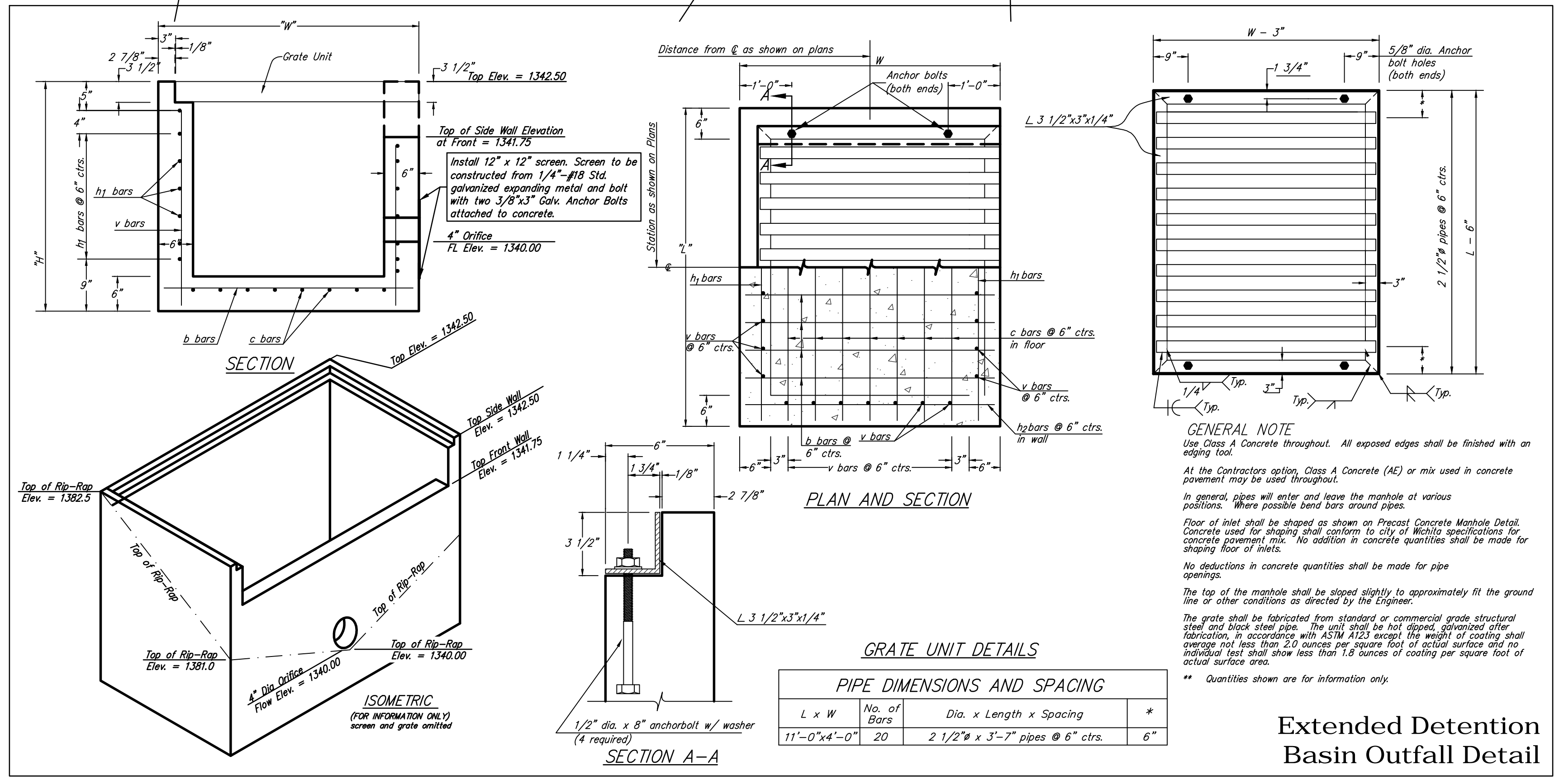
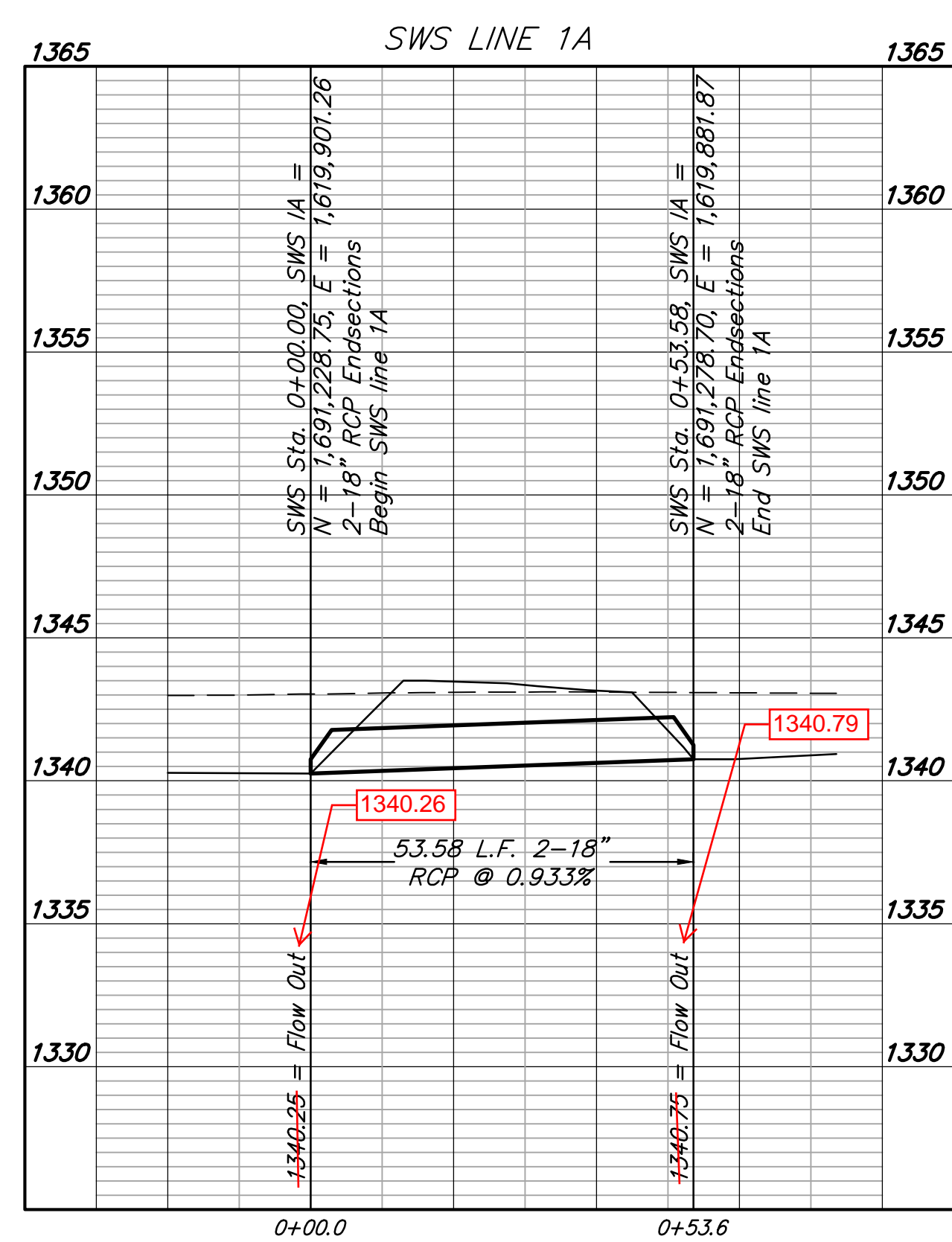
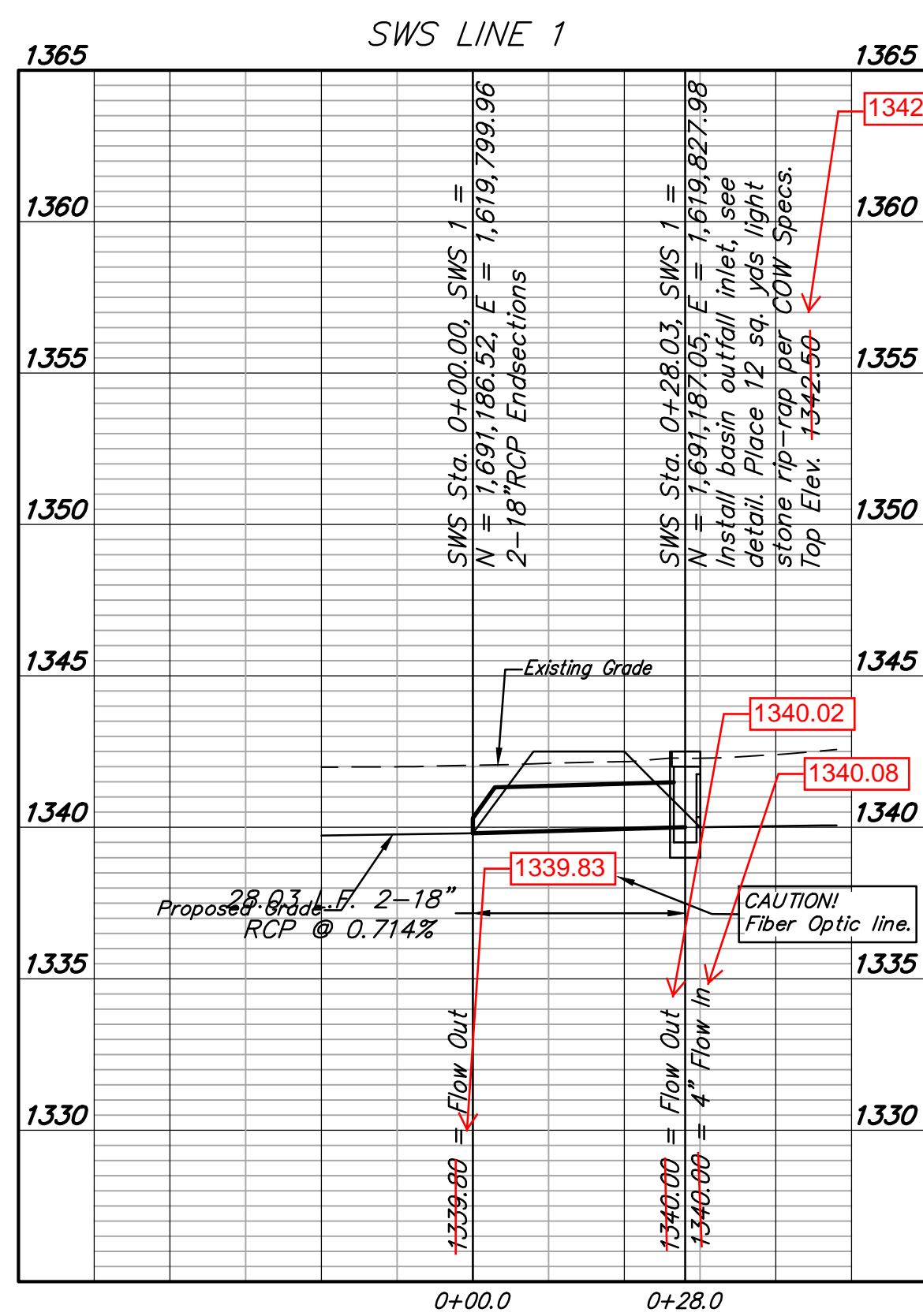
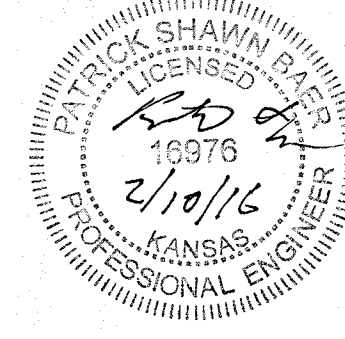
Event	Basin Event Results		
	Peak In	Peak Out	Peak Elev.
1-yr	17.1	4.3	1,342.0
2-yr	22.0	9.6	1,342.2
5-yr	28.9	17.0	1,342.4
10-yr	33.7	22.0	1,342.6
25-yr	39.9	30.2	1,342.7
50-yr	45.4	36.9	1,342.8
100-yr	51.5	43.5	1,342.9

**AS BUILTS**

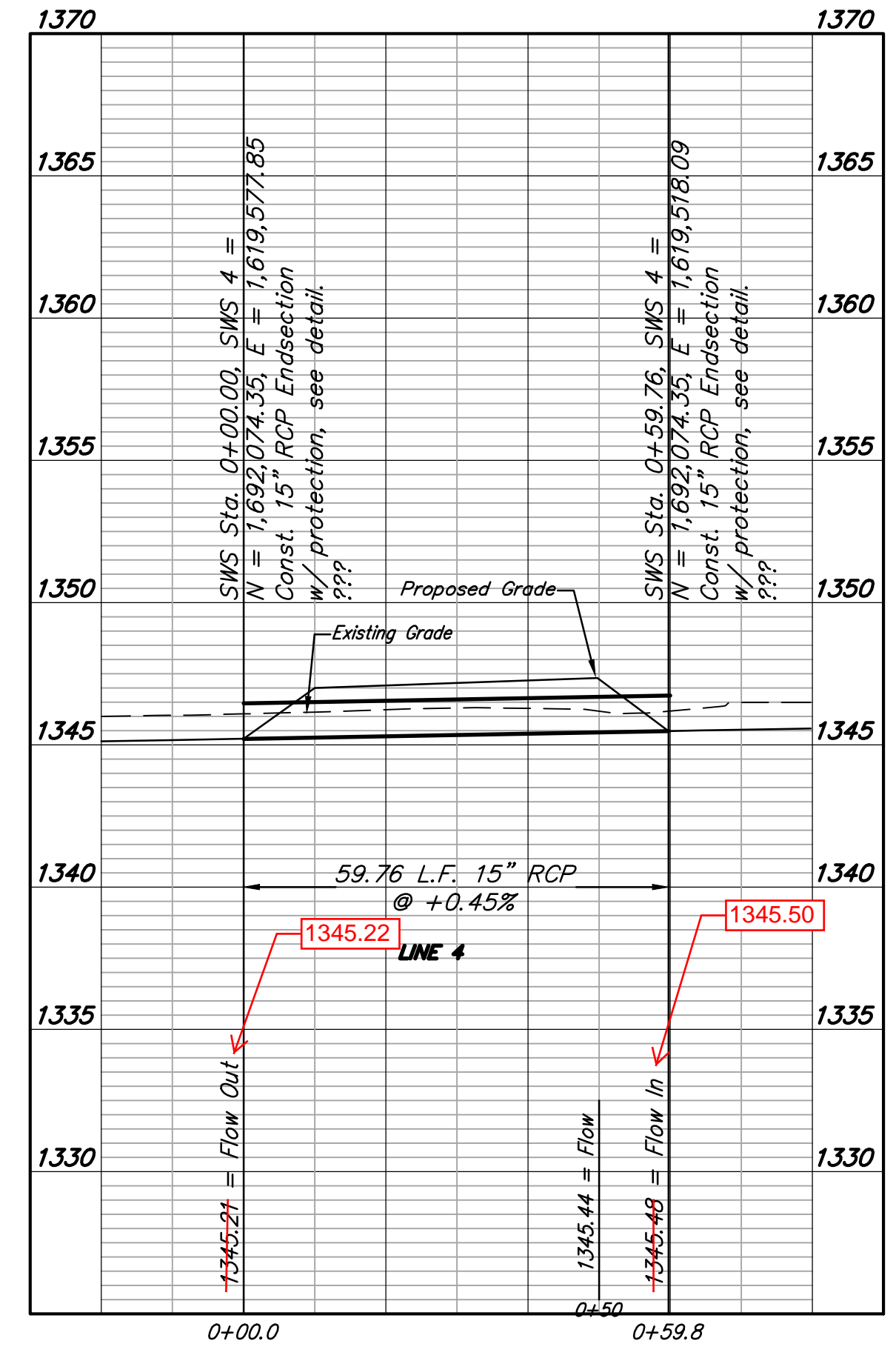
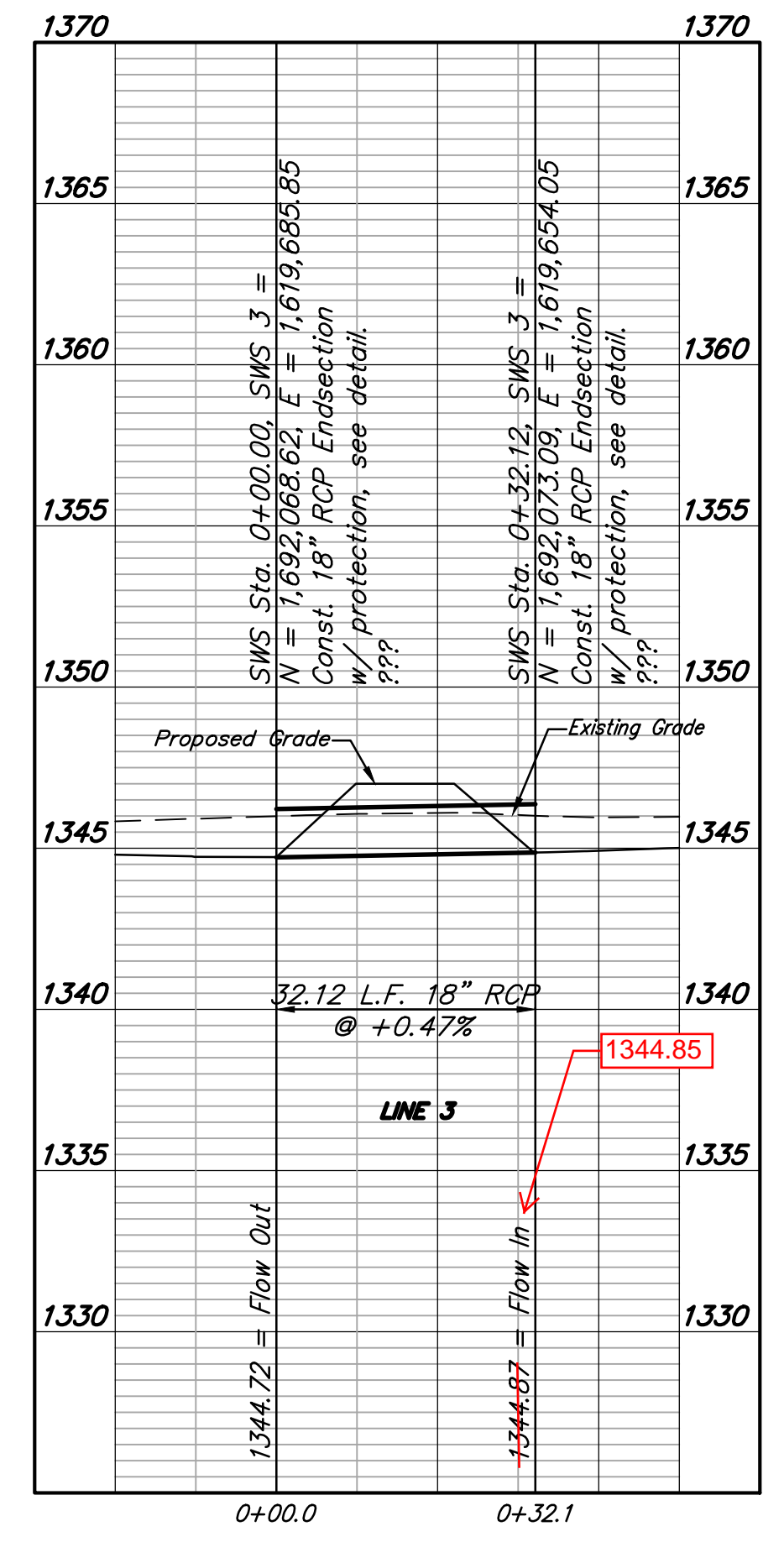
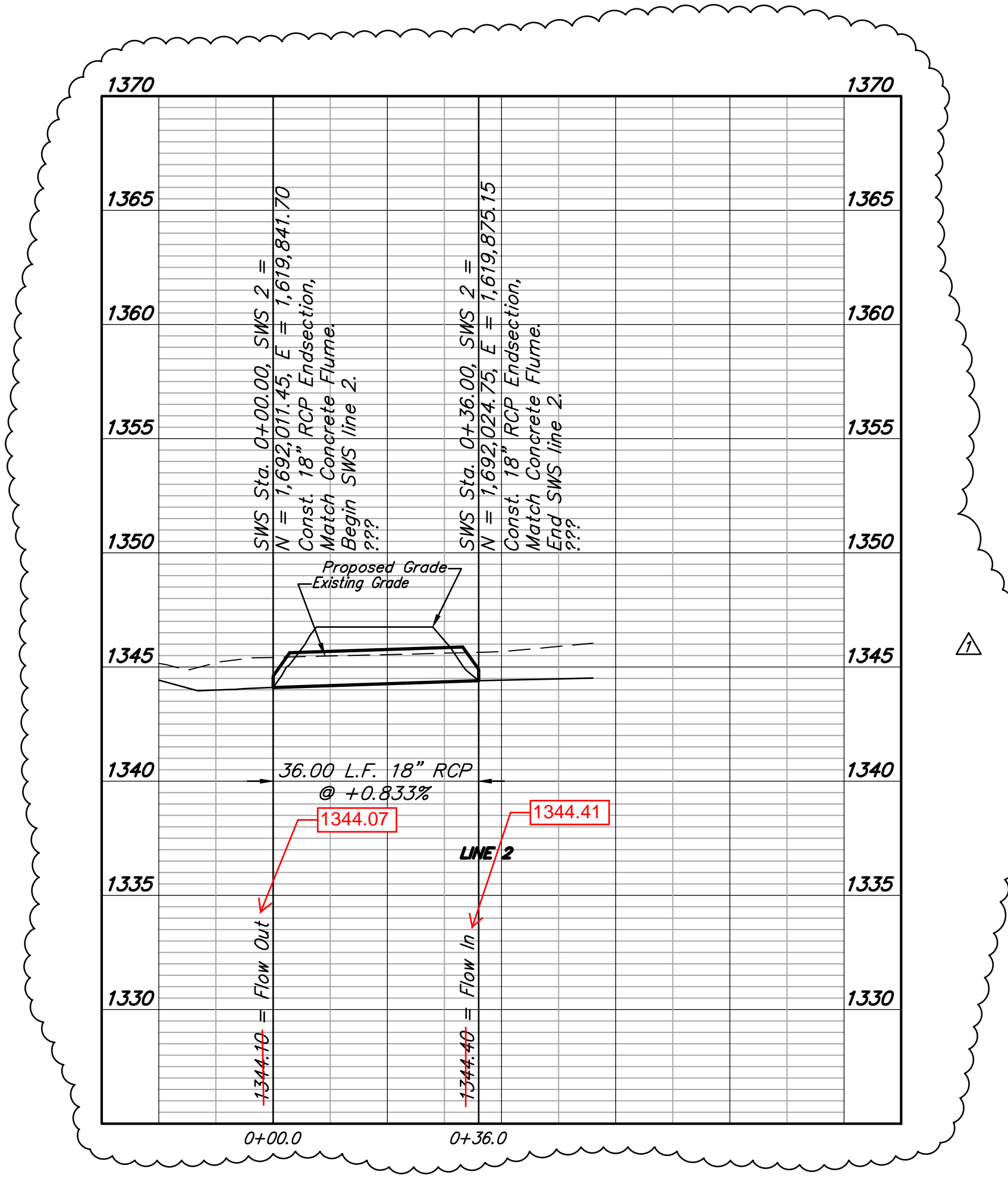
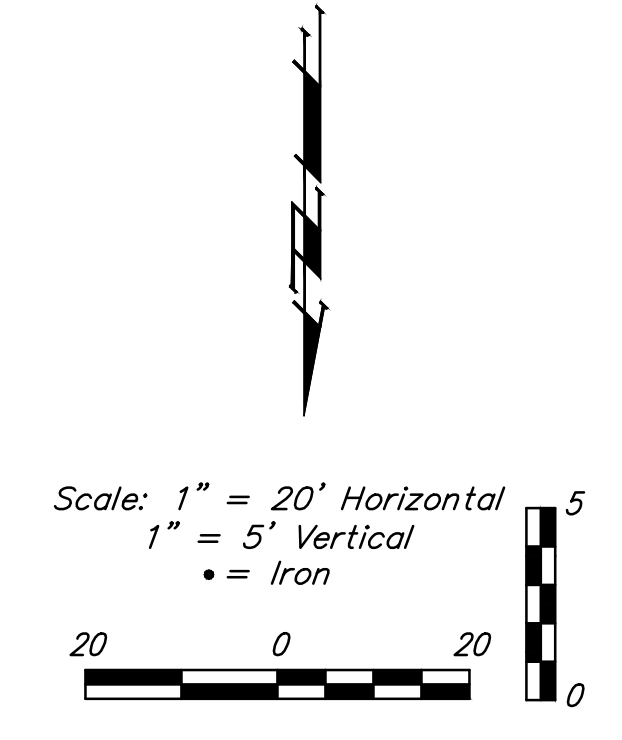
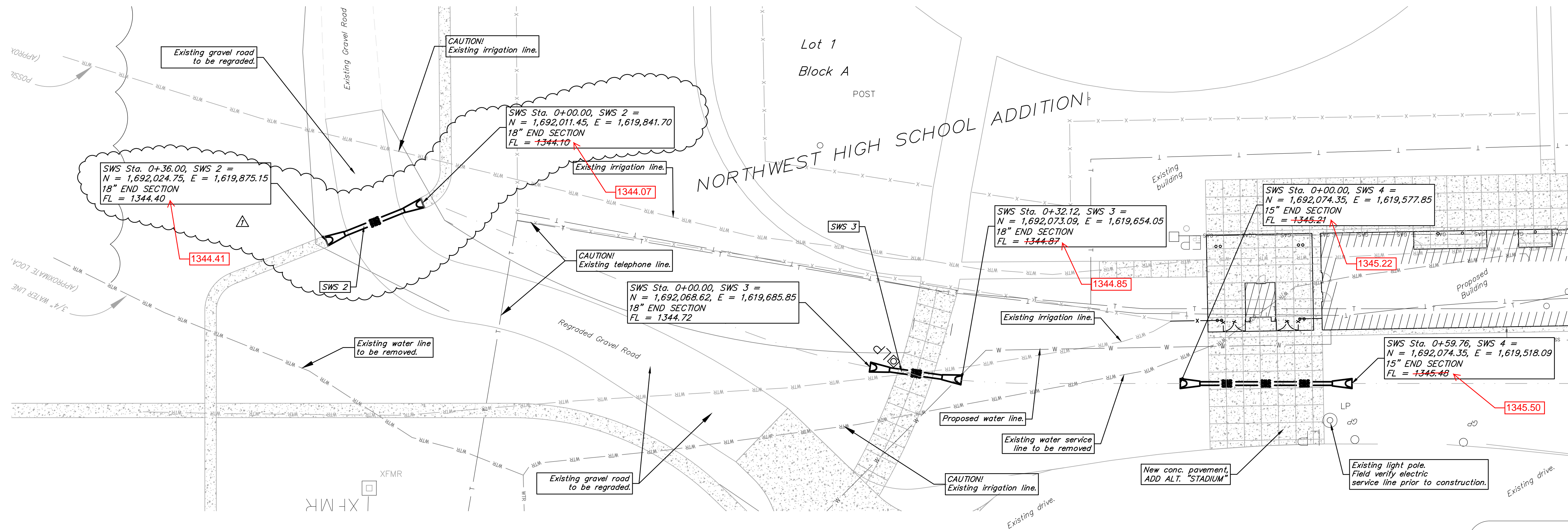
Contractor: Ewertz Excavation  
Project Inspector: Matt Perez

4/29/2016

**KEMILLER ENGINEERING PA**  
117 E. Lewis, Wichita, KS 67202 (316)264-0242



Baughman Company, P.A.  
 115 E. St. Wichita, KS 67201 P 316-262-2271 F 316-262-0140  
 PROFESSIONAL ENGINEER LICENSE NO. 16976 STATE OF KANSAS  
 PROJECT: USD 259 Northwest High School SWS Line 1 & Extended Detention Basin Storm Water Drain Improvements  
 SHEET 2 OF 10

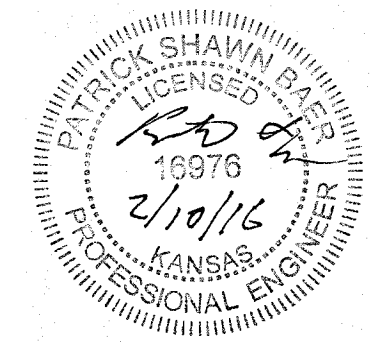


**AS BUILTS**

Contractor: **Ewertz Excavation**  
 Project Inspector: **Matt Perez**

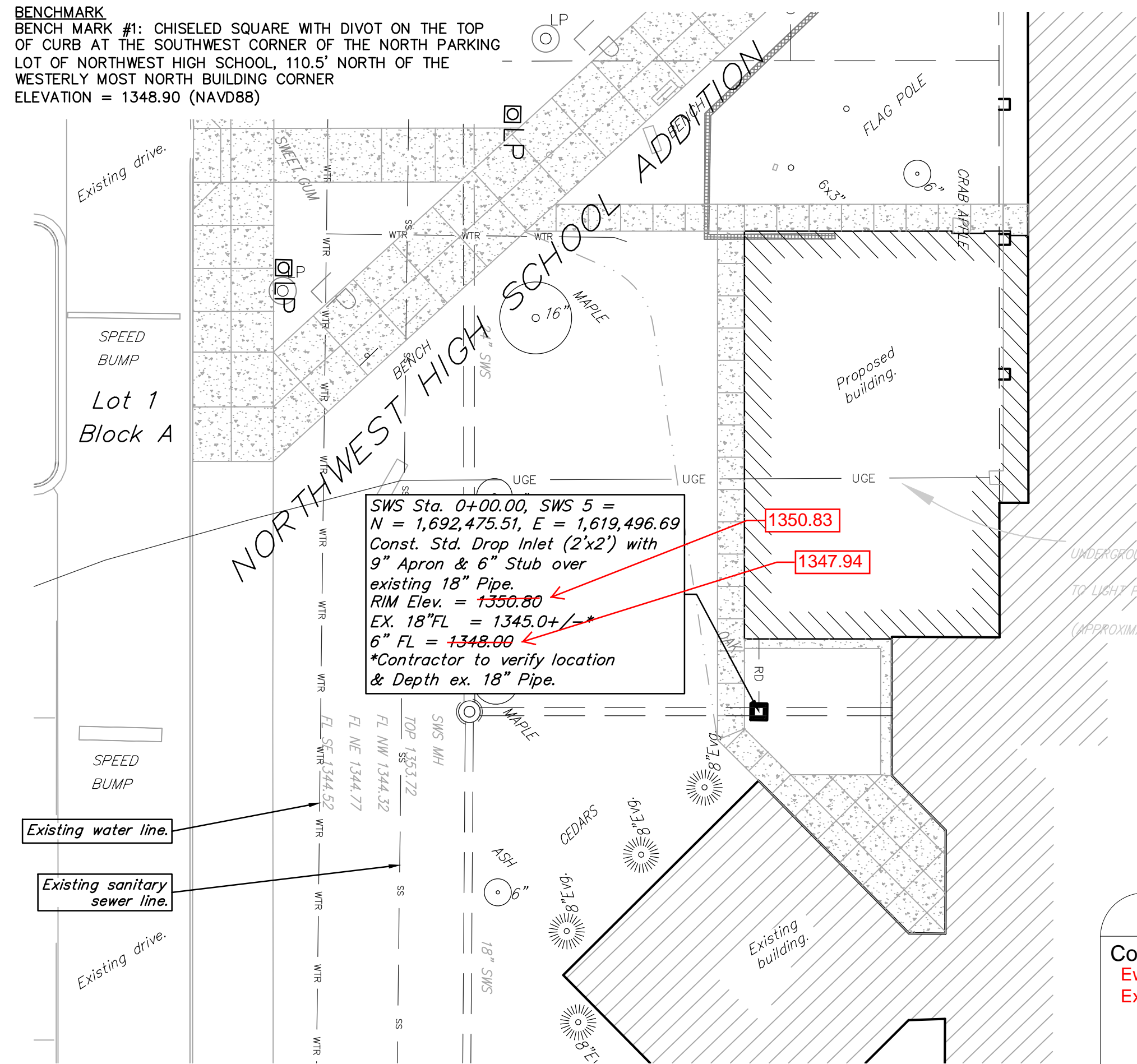
4/29/2016

**KEMILLER ENGINEERING PA**  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242



BENCHMARK  
 BENCHMARK #1: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.5' NORTH OF THE WESTERLY MOST NORTH BUILDING CORNER  
 ELEVATION = 1348.90 (NAVD88)

**BENCHMARK**  
 BENCH MARK #1: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.5' NORTH OF THE WESTERLY MOST NORTH BUILDING CORNER  
 ELEVATION = 1348.90 (NAVD88)



SWS Sta. 0+00.00, SWS 5 =  
 N = 1,692,475.51, E = 1,619,496.69  
 Const. Std. Drop Inlet (2'x2') with  
 9" Apron & 6" Stub over  
 existing 18" Pipe.  
 RIM Elev. = 1350.80  
 EX. 18" FL = 1345.0+/-  
 6" FL = 1348.00  
 \*Contractor to verify location  
 & Depth ex. 18" Pipe.

SWS Sta. 0+00.00, SWS 6 =  
 N = 1,692,512.62, E = 1,619,139.58  
 Const. Std. Drop Inlet (2'x4') with  
 18" Apron & 6" Stub over  
 existing 30" RCP.  
 Rim Elev. = 1350.50  
 EX. 30" FL Elev. = 1342.24+/-  
 6" FL = 1348.00  
 \*Contractor to verify location  
 & Depth ex. 30" RCP.

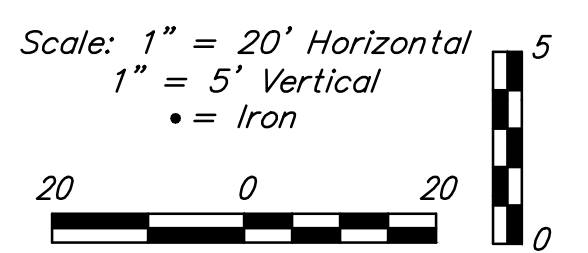
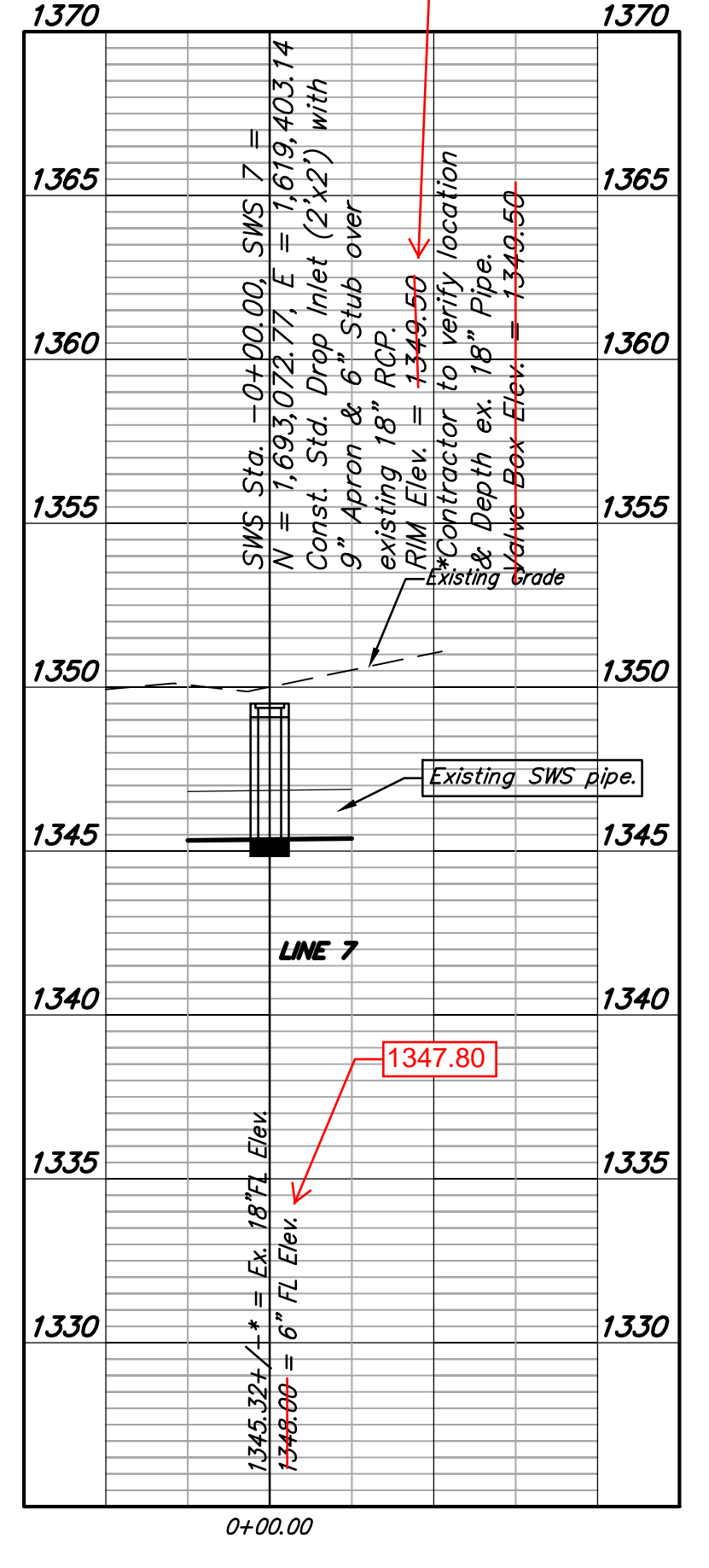
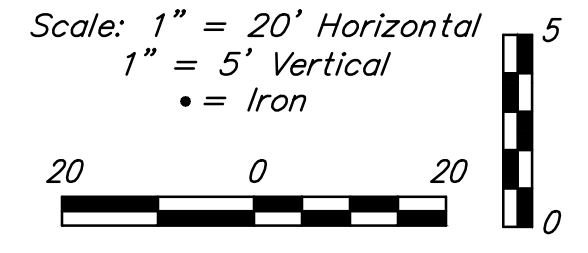
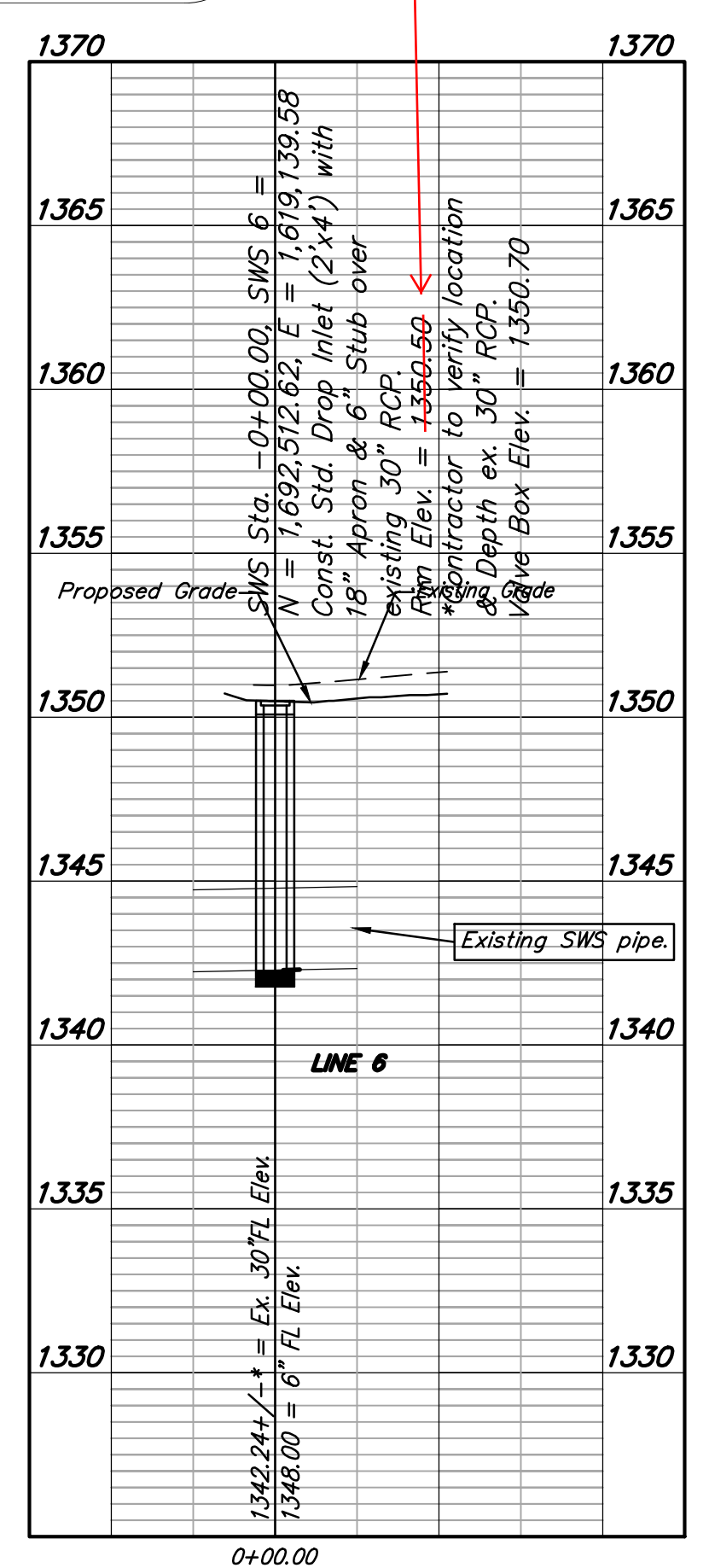
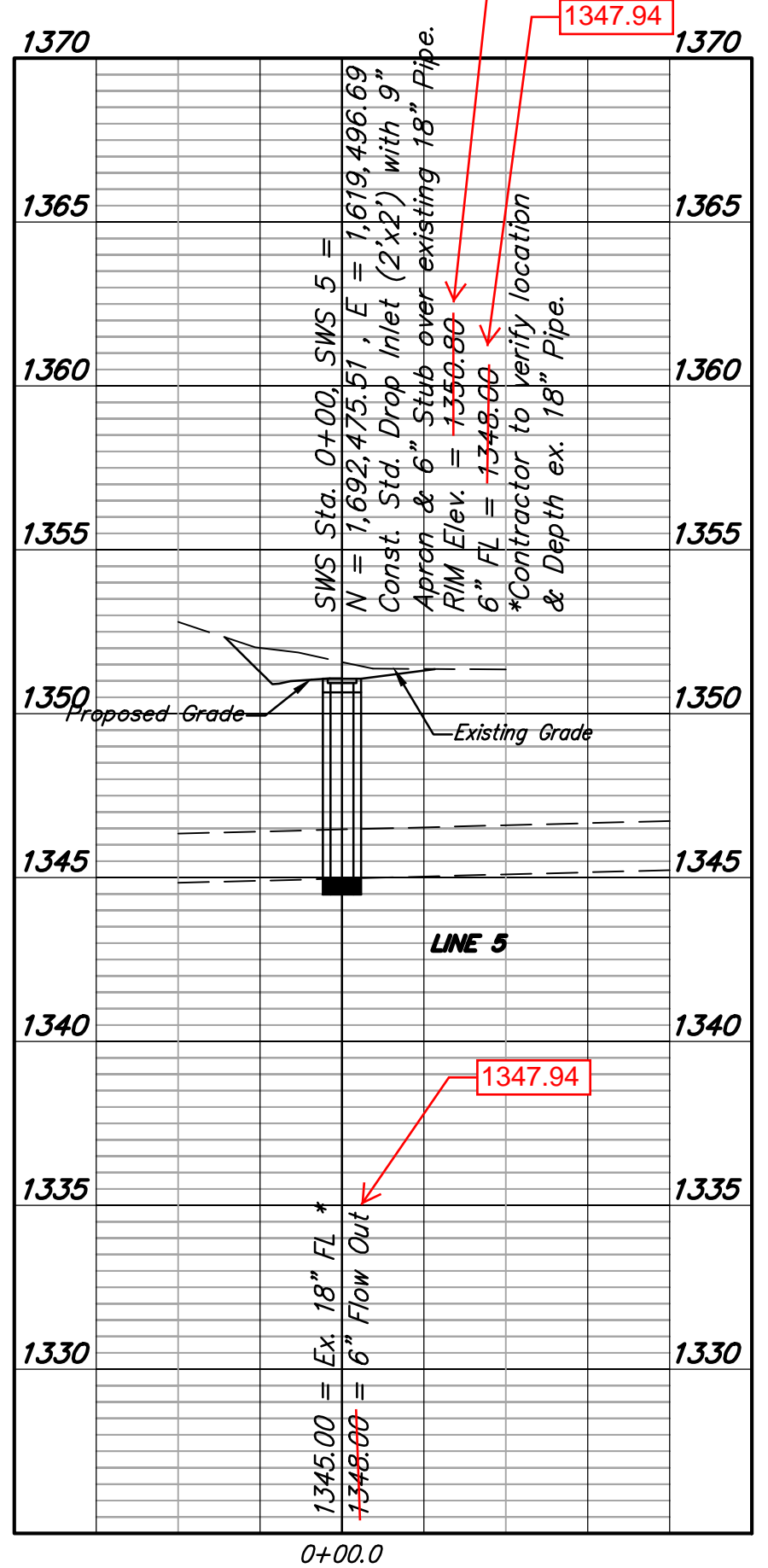
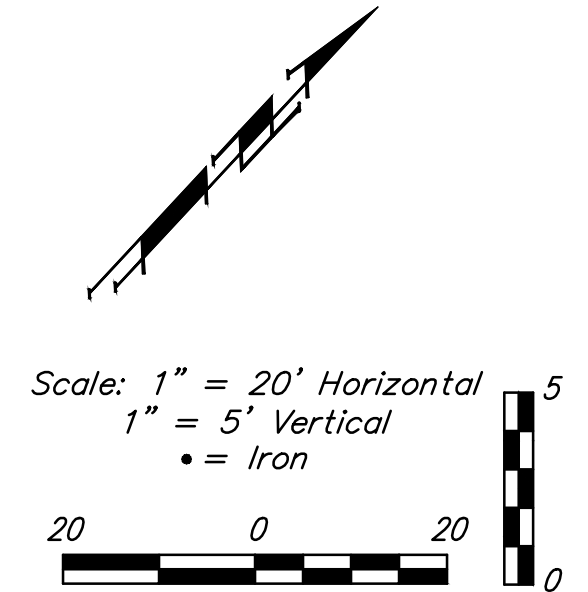
Lot 1  
 Block  
 SWS Sta. 0+00.0, SWS 7 =  
 N = 1,693,042.95, E = 1,619,434.05  
 Const. Std. Drop Inlet (2'x2') with  
 9" Apron & 6" Stub over  
 existing 18" RCP.  
 RIM Elev. = 1349.50  
 EX. 18" FL Elev. = 1345.32+/-  
 6" FL Elev. = 1348.00  
 \*Contractor to verify location  
 & Depth ex. 18" Pipe.

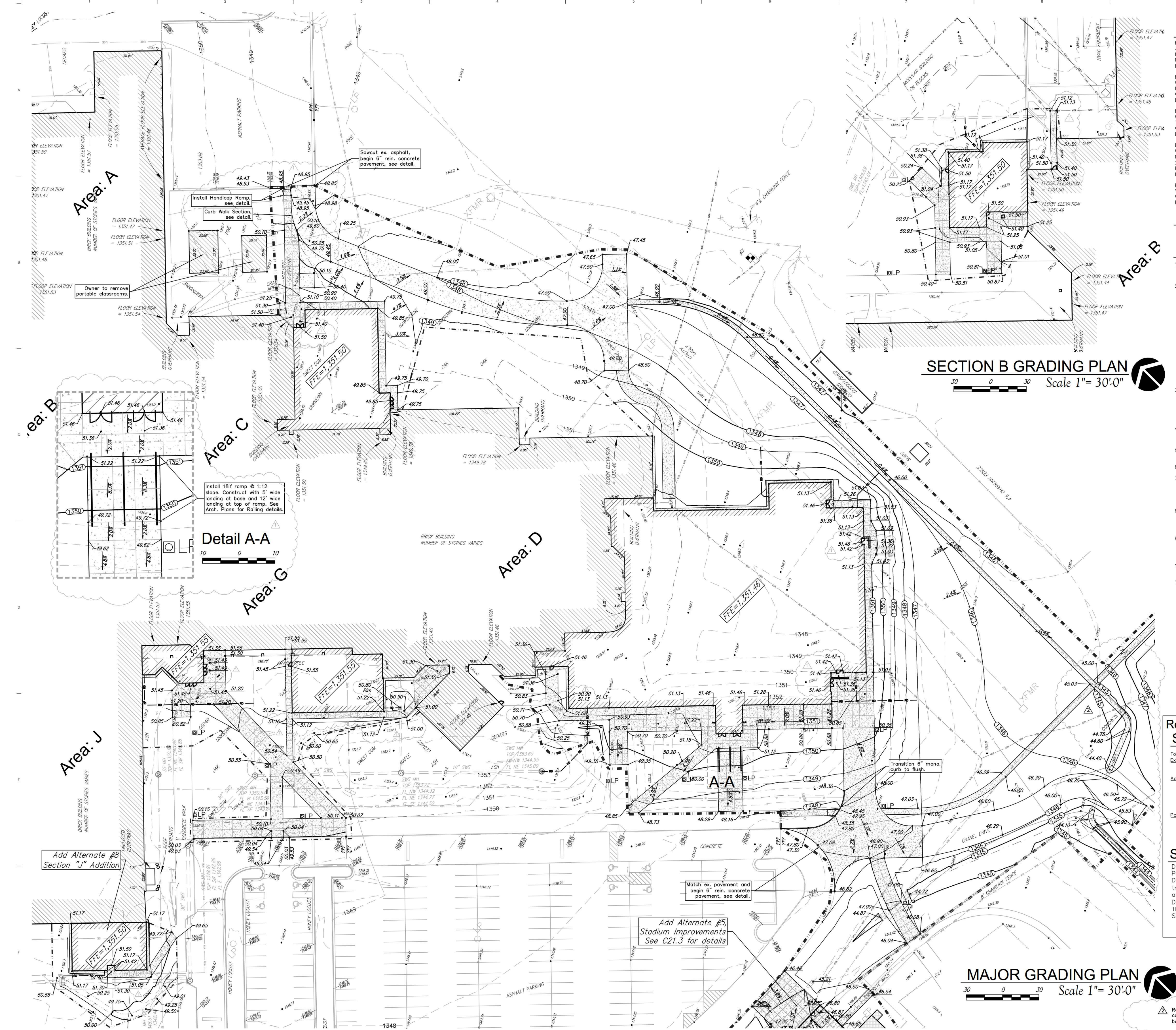
**AS BUILTS**

Contractor: Ewertz Excavation  
 Project Inspector: Matt Perez

**KEMILLER ENGINEERING PA**  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

4/29/2016





**SECTION B GRADING PLAN**  
Scale 1" = 30'-0"

**MAJOR GRADING PLAN**  
Scale 1" = 30'-0"

**BENCHMARKS**

- BENCH MARK #1: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.5' NORTH OF THE WESTERLY MOST NORTH BUILDING CORNER  
ELEVATION = 1348.90 (NAVD88)
- BENCH MARK #2: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE EAST SIDE OF CURVED DRIVE ON THE WEST SIDE OF NORTHWEST HIGH SCHOOL, SIDE SIDE OF SIDEWALK RAMP, 131.2' WEST OF THE WESTERLY MOST BUILDING FACE  
ELEVATION = 1347.62 (NAVD88)
- BENCH MARK #3: CHISELED SQUARE WITH DIVOT ON THE NORTHWEST CORNER OF A CONCRETE WATER VAULT, BETWEEN BALL FIELDS ON THE EAST SIDE OF NORTHWEST HIGH SCHOOL, 168' EAST-NORTHEAST OF EASTERLY MOST BUILDING CORNER  
ELEVATION = 1348.11 (NAVD88)
- BENCH MARK #4: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE NORTHERLY SIDE OF DRIVE ENTRANCE, NORTHEAST OF NORTH PARKING AREA, 36' NORTHERLY OF NORTHWEST CURB RETURN, 275.5' SOUTH OF CENTERLINE OF 13TH STREET NORTH, NORTHWEST HIGH SCHOOL  
ELEVATION = 1348.75 (NAVD88)
- BENCH MARK #5: CHISELED SQUARE WITH DIVOT ON THE CONCRETE WALK ON THE WEST SIDE OF THE NORTH ENTRANCE TO THE TENNIS COURTS, WEST OF THE FOOTBALL FIELD  
ELEVATION = 1346.40 (NAVD88)

**LEGAL DESCRIPTION**

Lot 1, Block A, Northwest High School Addition, Wichita, Sedgewick County Kansas.

**GRADING NOTES**

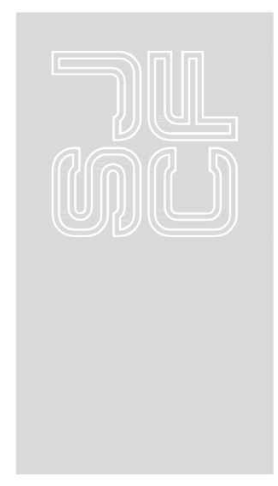
- Contractor shall be required to provide notice to Kansas One Call at 867-2420 a minimum of two (2) working days prior to any excavation or work adjacent to utilities.
- The Contractor must notify the following in case of an emergency:
  - Kansas Gas Service (Gas).....1-888-482-4950
  - Black Hills Energy (Gas).....1-800-303-0357
  - Westar Energy (Electric).....288-7850
  - Cox Communications (Telecommunication).....262-4270
  - AT&T (Telecommunication).....288-2759
  - City of Wichita Water Dept. (Water).....268-4563
  - City of Wichita Sewer Maint. (San. Sewer).....268-4924
  - City of Wichita Storm Sewer Maint. (Storm Sewer).....268-6000
  - City of Wichita Traffic Maint. (Trat. Control).....268-4034
  - Conoco Pipeline Co. (Petroleum).....1-800-231-2551
  - Williams Pipeline Co. (Petroleum).....1-800-324-9696
  - Phillips Pipeline Co. (Petroleum).....1-800-766-8230
- Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Local Manual on Uniform Traffic Control Devices.
- The Contractor shall verify all utility locations prior to construction of this project.
- Refer to Landscape Plan for Treatment of All Disturbed Areas.
- Signaling and striping shall be installed in accordance with Local City Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
- Pavement to be constructed with per Geotechnical Report. Site grading and compaction to be completed per Geotechnical Report provided by Terson Consultants Inc. Refer to pavement details to verify depths and Paving type.
- A Proposed storm water sewer is to be completed with the Tennis Court Construction. That portion of the project shall be constructed under "Private Project". The storm sewer system shall be designed separately, and undergo Local City review and approval.
- The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.
- Cross-Slopes on sidewalks around building shall not exceed 1/4" per foot (or 2%). Notify Landscape Architect of any discrepancies prior to forming of walks.

**Reference info. from 0251PPD(607861) SITE ERU INFORMATION**

Total Area:	±6,625,326 sq. ft. (152.01 acres)
Existing Impervious Area:	±1,049,380 sq. ft. (24.09 acres)
Parking, Sidewalk, Athletics:	±768,250 sq. ft. (17.64 acres)
Buildings, & Portable Bldgs:	±281,130 sq. ft. (6.45 acres)
Addition, & Renovations:	±429,970 sq. ft. (11.02 acres)
Impervious Area Removed:	±66,630 sq. ft. (1.53 acres)
Added Building Area:	±56,200 sq. ft. (1.29 acres)
Added Impervious Area:	±44,150 sq. ft. (1.01 acres)
Regraded Pervious Area:	±370,820 sq. ft. (8.51 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)
Post Const. Impervious Area:	±1,083,860 sq. ft. (25.11 acres)
Parking, Sidewalk, Athletics:	±745,770 sq. ft. (17.12 acres)
Buildings, & Portable Bldgs:	±332,330 sq. ft. (7.74 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)

**Stormwater Compliance**

Downstream Channel Protection and Water Quality Protection will be addressed with a proposed Extended Dry Detention Basin. Water Quality Volume to be treated for this project (WQV=14,280 cu. ft.) has been address with the Extended Dry Detention Basin. Downstream Channel Protection (CPv = 50,580 cu.ft.). This improvement has been developed to satisfy Section 16.32 of the City Code.



SCHAEFER JOHNSON COX FREY  
ARCHITECTURE  
EMILIE CENTER  
1100 S. WILKINSON  
WICHITA, KS 67202  
P: 316.262.2117  
F: 316.262.2118  
WWW.SJCF.COM  
ARCHITECTURE@SJCF.COM



DUDLEY WILLIAMS & ASSOCIATES, P.A.  
STRUCTURAL ENGINEERS  
MIDWEST ENGINEERING, INC.  
MECHANICAL ENGINEERS  
JOHNSON ENGINEERING  
ELECTRICAL ENGINEERS  
BAUGHMAN COMPANY, P.A.  
CIVIL ENGINEERS

USD 259  
NORTHWEST HIGH SCHOOL  
ADDITION AND REMODEL  
BID NO. 14-25089  
1220 N. TYLER ROAD  
WICHITA, KS 67212

Schaefer Johnson Cox Frey Architecture, Inc.  
All Rights Reserved.  
These drawings and their contents, including but not limited to, all concepts, designs, & ideas are the exclusive property of Schaefer Johnson Cox Frey ARCHITECTURE and may not be used or reproduced in any way without the express consent of SJCF.

**Revisions**

15-14 MARCH	
13-16 PPD	

Project Number  
SJCF 5998.00

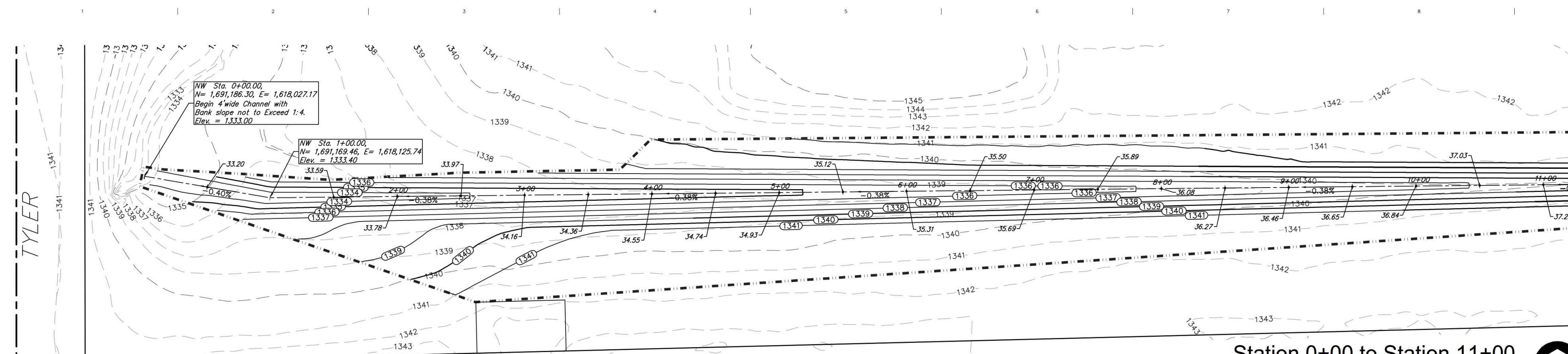
Date  
APRIL 2014

GRADING PLAN  
1" = 30'-0"

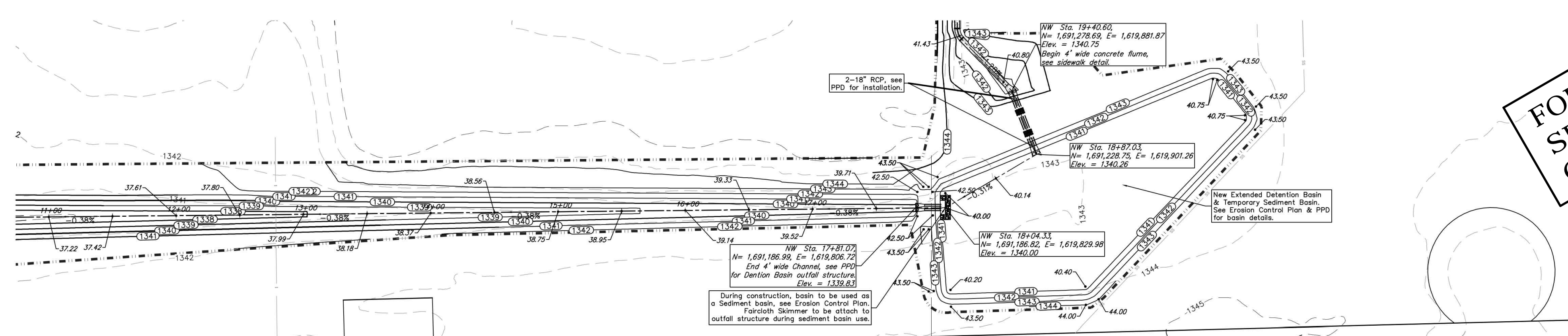
**C21.1R**

Baughman Company, P.A.  
115 Ellis St., Wichita, KS 67211 P: 316.262.2111 F: 316.262.2118  
11500 W. 130th St., Overland Park, KS 66213 P: 913.666.1111 F: 913.666.1118  
11500 W. 130th St., Overland Park, KS 66213 P: 913.666.1111 F: 913.666.1118  
BAUGHMAN JOB NO. 12124849

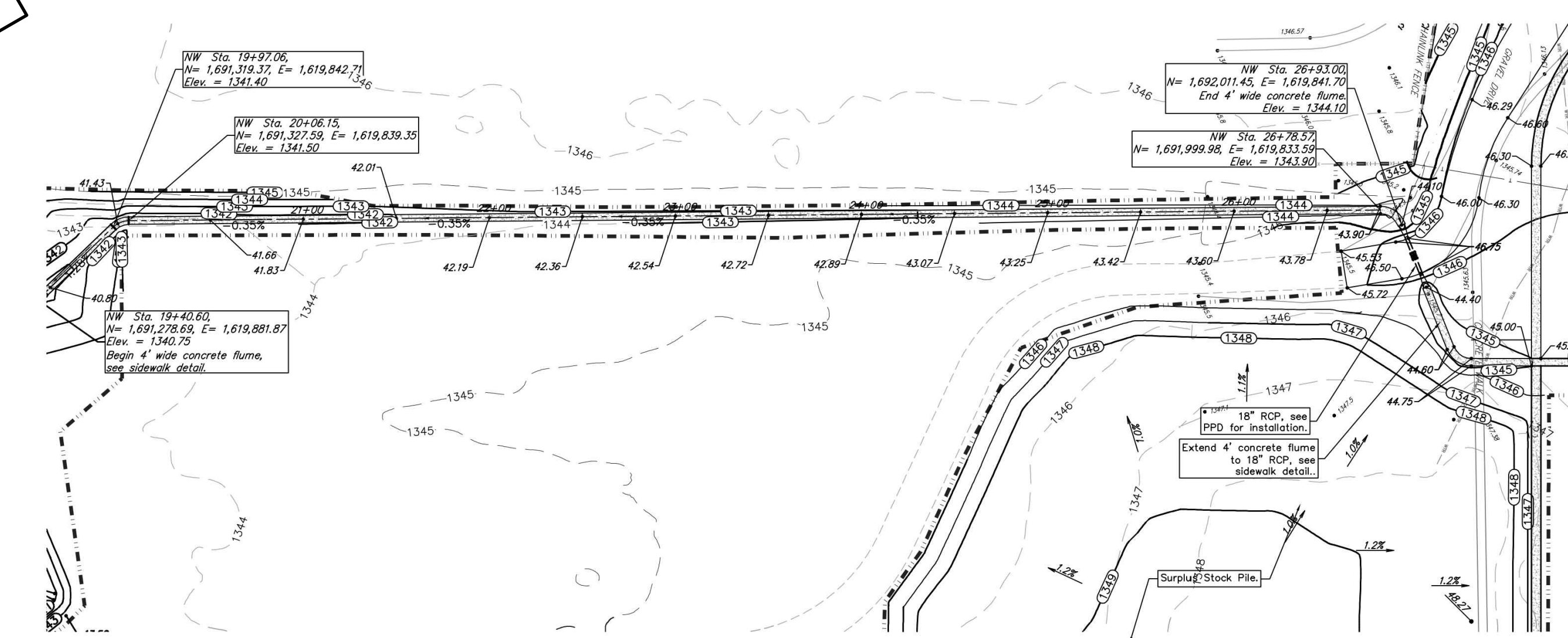
USD 259 Northwest High School  
Reference ERU Plan  
Grading Plan / ERU Plan  
Storm Water Drain Improvements



Station 0+00 to Station 11+00  
Scale 1" = 40' 0"



Station 11+00 to Station 20+15  
Scale 1" = 40' 0"



Station 20+15 to Extended Detention Basin  
Scale 1" = 40' 0"

- ### BENCHMARKS
- BENCH MARK #1: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.0' NORTH OF THE WESTERLY MOST NORTH BUILDING CORNER. ELEVATION = 1348.90 (NAVD88)
  - BENCH MARK #2: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE EAST SIDE OF CURVED DRIVE ON THE WEST SIDE OF NORTHWEST HIGH SCHOOL, SIDE SIDE OF SIDEWALK RAMP, 131.0' WEST OF THE WESTERLY MOST BUILDING FACE. ELEVATION = 1348.11 (NAVD88)
  - BENCH MARK #3: CHISELED SQUARE WITH DIVOT ON THE NORTHWEST CORNER OF A CONCRETE WATER VAULT, BETWEEN BALL FIELDS ON THE EAST SIDE OF NORTHWEST HIGH SCHOOL, 168' EAST - NORTHEAST OF EASTERLY MOST BUILDING CORNER. ELEVATION = 1348.11 (NAVD88)
  - BENCH MARK #4: CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE NORTHERLY SIDE OF DRIVE ENTRANCE, NORTHEAST OF NORTH PARKING AREA, 36' NORTHERLY OF NORTHWEST CURB RETURN, 275.0' SOUTH OF CENTERLINE OF 13TH STREET NORTH, NORTHWEST HIGH SCHOOL. ELEVATION = 1348.75 (NAVD88)
  - BENCH MARK #5: CHISELED SQUARE WITH DIVOT ON THE CONCRETE WALK ON THE WEST SIDE OF THE NORTH ENTRANCE TO THE TENNIS COURTS, WEST OF THE FOOTBALL FIELD. ELEVATION = 1348.40 (NAVD88)

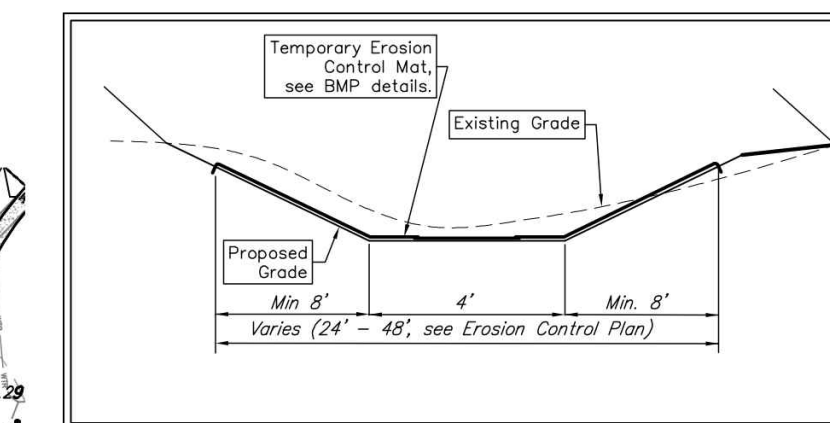
### LEGAL DESCRIPTION

Lot 1, Block A, Northwest High School Addition, Wichita, Sedgewick County Kansas.

### SITE INFORMATION

Total Area:	±6,625,326 sq. ft. (152.01 acres)
Existing Impervious Area:	±1,049,360 sq. ft. (24.03 acres)
Parking, Sidewalk, Athletics:	±768,250 sq. ft. (17.64 acres)
Buildings, & Portable Bldgs:	±281,130 sq. ft. (6.45 acres)
Addition & Renovations:	±479,970 sq. ft. (11.02 acres)
Impervious Area Removed:	±66,830 sq. ft. (1.53 acres)
Added Building Area:	±56,200 sq. ft. (1.29 acres)
Added Impervious Area:	±44,150 sq. ft. (1.01 acres)
Regroded Pavement Area:	±370,620 sq. ft. (8.51 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)
East Const. Impervious Area:	±108,860 sq. ft. (2.51 acres)
Parking, Sidewalk, Athletics:	±745,770 sq. ft. (17.12 acres)
Buildings, & Portable Bldgs:	±337,330 sq. ft. (7.74 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)

1. The Contractor shall verify utility locations prior to construction of this project.
2. Refer to Landscape Plan for Treatment of All Disturbed Areas.
3. Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
4. Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Local Manual on Uniform Traffic Control Devices.
5. The Contractor shall verify all utility locations prior to construction of this project.
6. Refer to Landscape Plan for Treatment of All Disturbed Areas.
7. Signing and striping shall be installed in accordance with Local City Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
8. Pavement to be constructed with per Geotechnical Report. Site grading and compaction to be completed per Geotechnical Report provided by Terocon Consultants Inc. Refer to pavement details to verify depths and Paving type.
9. A Proposed storm water sewer is to be completed with the Tennis Court Construction. That portion of the project shall be constructed under "Private Project." The storm sewer system shall be designed separately, and undergo Local City review and approval.
10. The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.
11. Cross-Slopes on sidewalks around building shall not exceed 1/4" per foot (or 2%). Notify Landscape Architect of any discrepancies prior to forming of walls.



### Reference info. from 0251PPD(607861) SITE ERU INFORMATION

Total Area:	±6,625,326 sq. ft. (152.01 acres)
Existing Impervious Area:	±1,049,360 sq. ft. (24.03 acres)
Parking, Sidewalk, Athletics:	±768,250 sq. ft. (17.64 acres)
Buildings, & Portable Bldgs:	±281,130 sq. ft. (6.45 acres)
Addition & Renovations:	±479,970 sq. ft. (11.02 acres)
Impervious Area Removed:	±66,830 sq. ft. (1.53 acres)
Added Building Area:	±56,200 sq. ft. (1.29 acres)
Added Impervious Area:	±44,150 sq. ft. (1.01 acres)
Regroded Pavement Area:	±370,620 sq. ft. (8.51 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)
East Const. Impervious Area:	±108,860 sq. ft. (2.51 acres)
Parking, Sidewalk, Athletics:	±745,770 sq. ft. (17.12 acres)
Buildings, & Portable Bldgs:	±337,330 sq. ft. (7.74 acres)
Add Alternate (Concession):	±10,760 sq. ft. (0.25 acres)

### Stormwater Compliance

Downstream Channel Protection and Water Quality Protection will be addressed with a proposed Extended Dry Detention Basin. Water Quality Volume to be treated for this project (WQv=14,280 cu. ft.) has been addressed with the Extended Dry Detention Basin. Downstream Channel Protection (CPv = 50,580 cu. ft.). This improvement has been developed to satisfy Section 16.32 of the City Code.

- Revised: 1-26-16
1. Relocated detention basin.
  2. Relocated drainage channel from Sta. 17+80 to 26+93.
  3. Revised 18" RCP located under service road.
  4. Added 2-18" RCP at north side of new detention basin.
  5. Extended 4" concrete flume to new detention basin.



**BAUGHMAN ENGINEERING, INC.**  
ENGINEERS ARCHITECTS PLANNERS  
1720 N. TYLER ROAD  
WICHITA, KS 67212  
PH: 316.844.8855  
WWW.BAUGHMANENGINEERING.COM



**DUDLEY WILLIAMS & ASSOCIATES, P.A.**  
STRUCTURAL ENGINEERS  
**MIDWEST ENGINEERING, INC.**  
MECHANICAL ENGINEERS  
**JOHNSON ENGINEERING**  
ELECTRICAL ENGINEERS  
**BAUGHMAN COMPANY, P.A.**  
CIVIL ENGINEERS

**USD 259**  
NORTHWEST HIGH SCHOOL  
ADDITION AND REMODEL  
BID NO. 14-25089  
WICHITA, KS 67212

**Project Number**  
SJCF 5098.00

**Date**  
APRIL 2014

**DRAINAGE CHANNEL**  
Extended Detention Basin  
1" = 30'-0"  
**C21.2**



Baughman Company, P.A.  
115 E. 11th, Wichita, KS 67211  
P: 316.262.1211 F: 316.262.0149  
E: PROJECTS@BAUGHMANENGINEERING.COM  
11025 SW 10th Engineering Way Suite 100 Wichita, KS 67209  
BAUGHMAN 036 001 11/2014

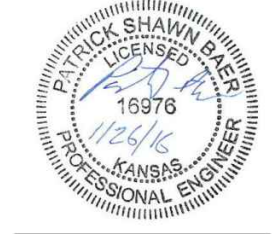
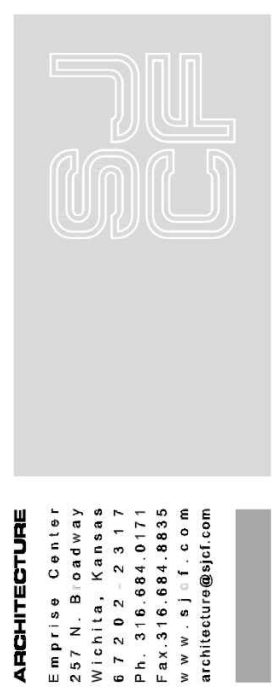
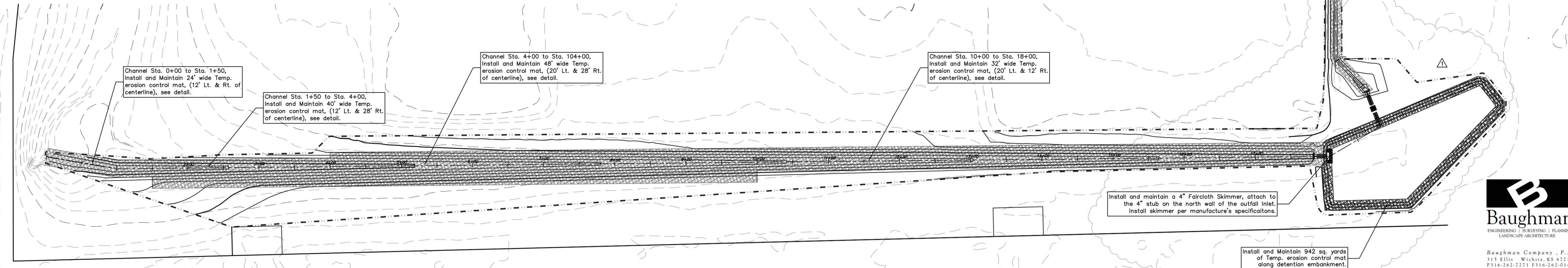
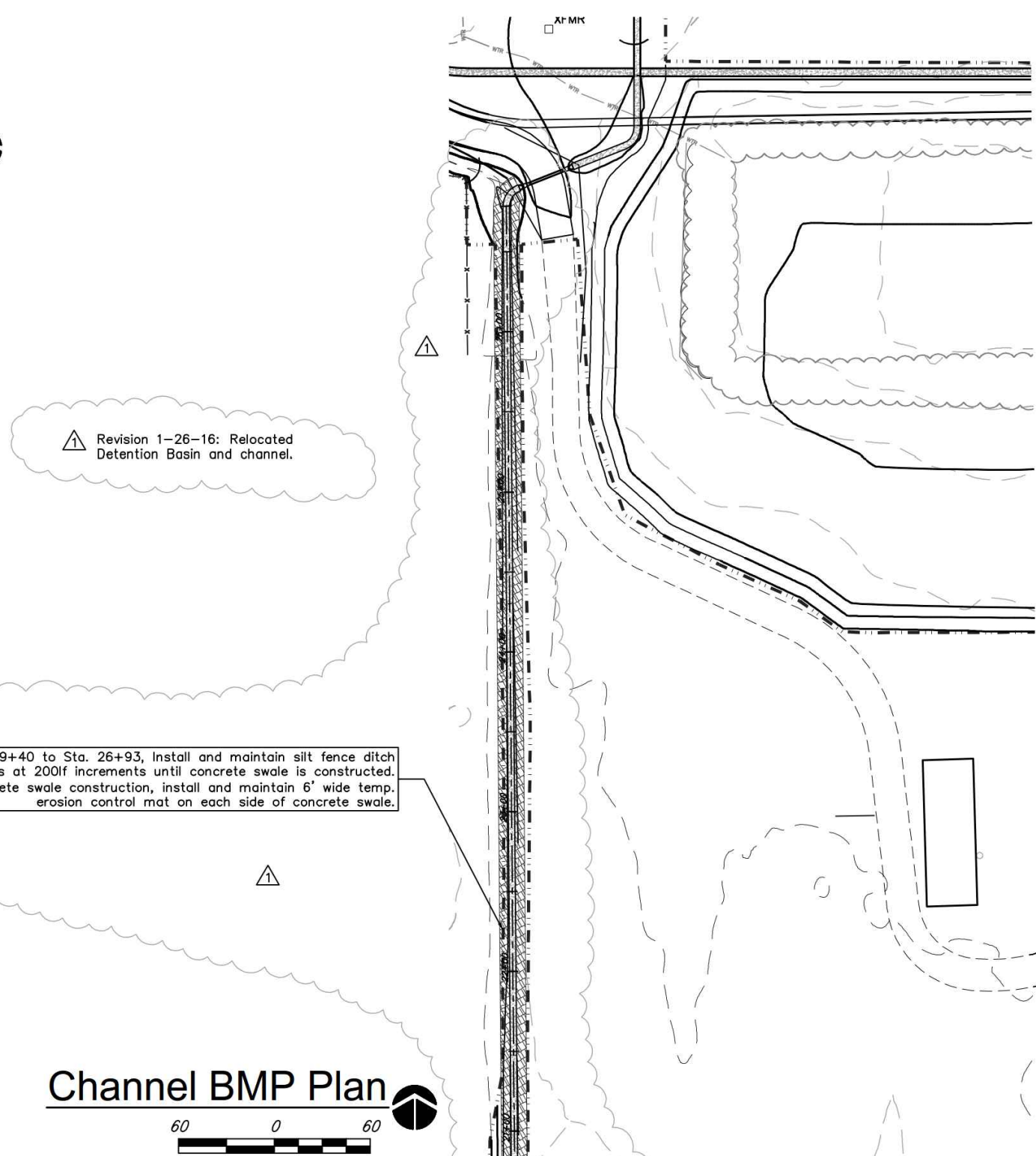
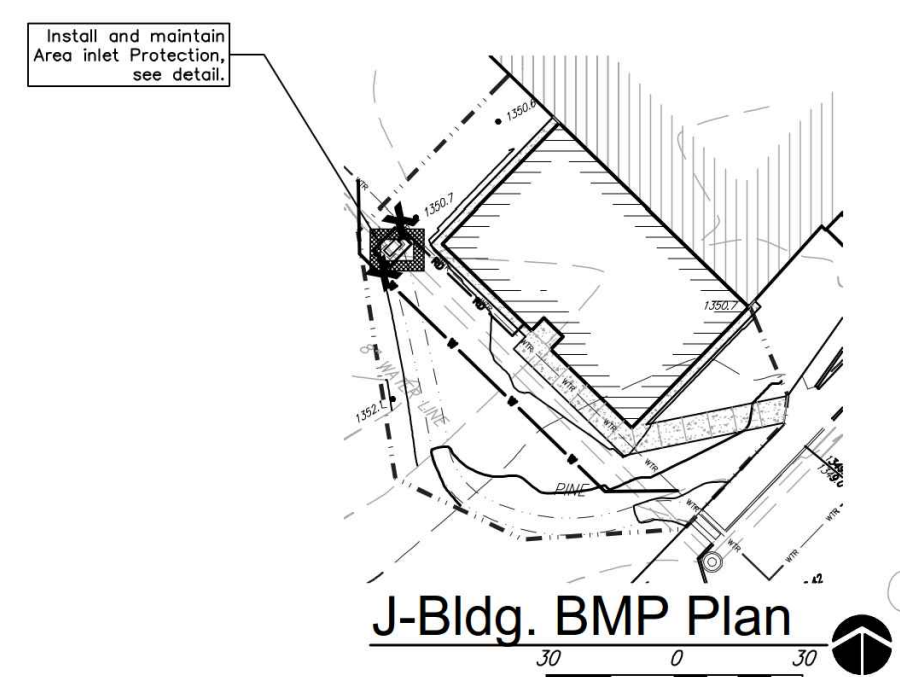
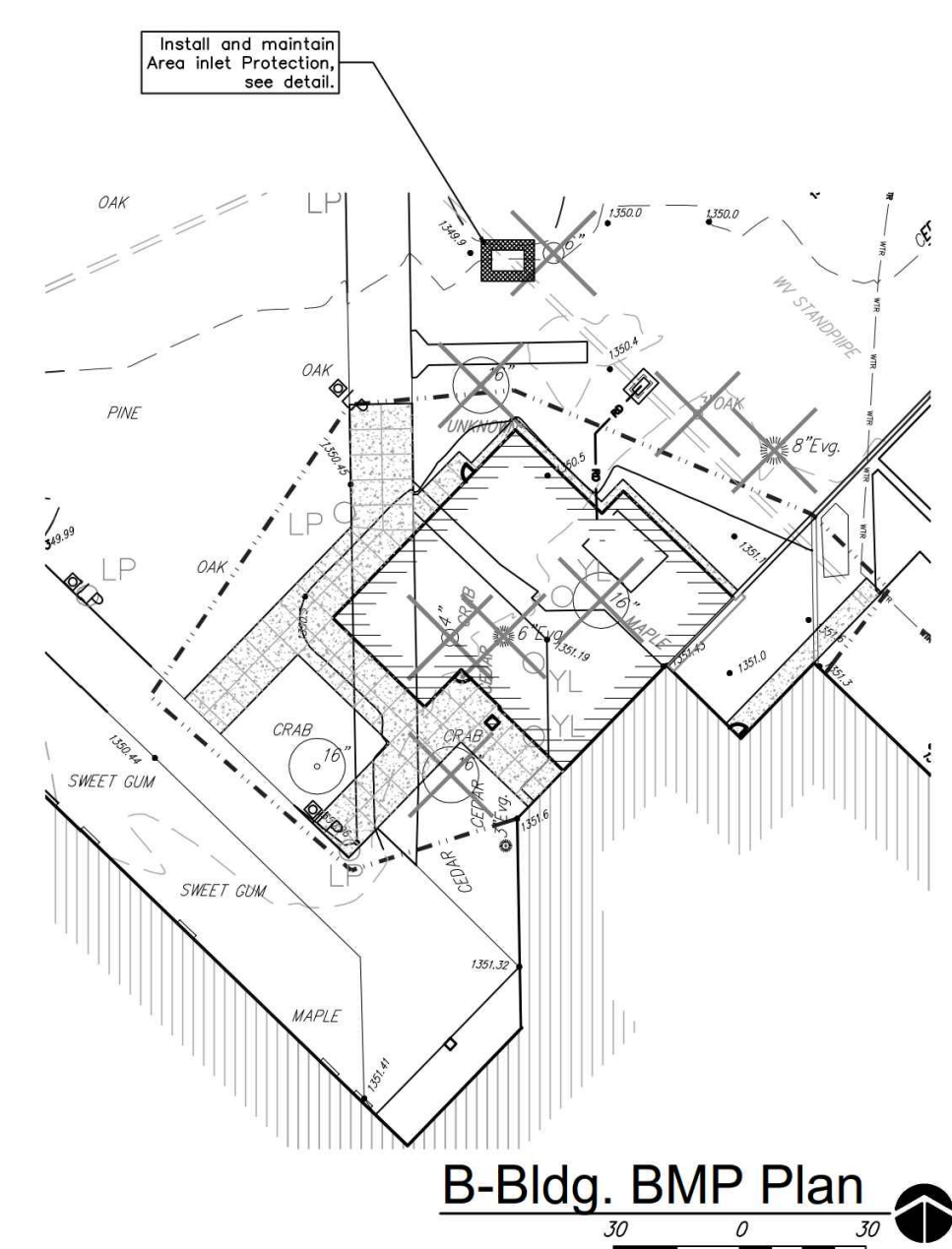
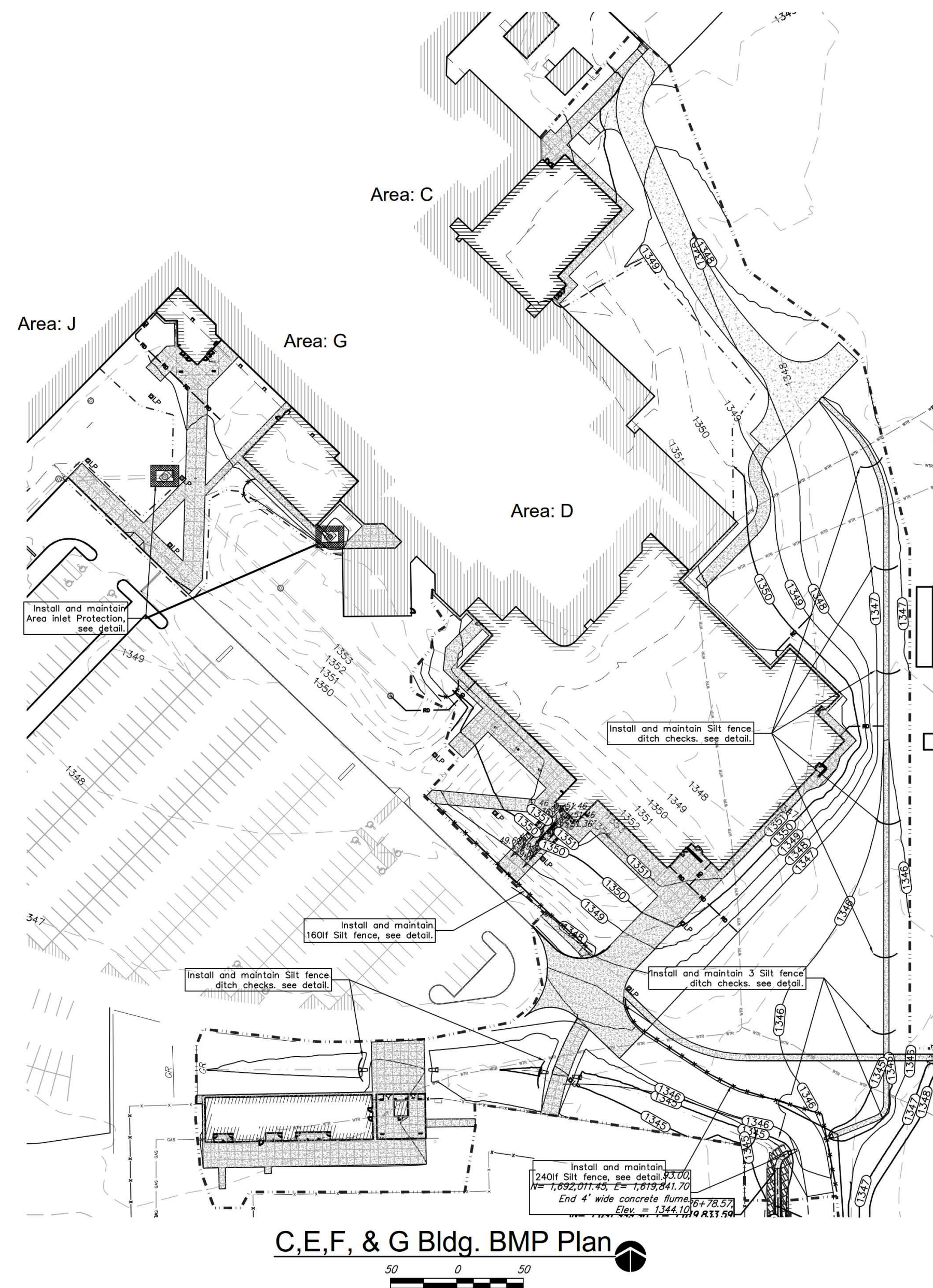
FOR REFERENCE ONLY  
SEE APPROVED FINAL SITE PLANS FOR  
CONSTRUCTION

FOR REFERENCE ONLY  
SEE APPROVED FINAL SITE PLANS FOR  
CONSTRUCTION

**Baughman Company, P.A.**  
115 E. 11th, Wichita, KS 67211 P: 316.262.1211 F: 316.262.0149  
E: PROJECTS@BAUGHMANENGINEERING.COM  
11025 SW 10th Engineering Way Suite 100 Wichita, KS 67209  
BAUGHMAN 036 001 11/2014

USD 259 Northwest High School  
Reference Channel Plan  
Storm Water Drain Improvements





**DUDLEY WILLIAMS & ASSOCIATES, P.A.**  
 STRUCTURAL ENGINEERS  
**MIDWEST ENGINEERING, INC.**  
 MECHANICAL ENGINEERS  
**JOHNSON ENGINEERING**  
 ELECTRICAL ENGINEERS  
**BAUGHMAN COMPANY, P.A.**  
 CIVIL ENGINEERS

**USD 259**  
**NORTHWEST HIGH SCHOOL**  
**ADDITION AND REMODEL**  
 BID NO. 14-25089  
 1220 N. TYLER ROAD  
 WICHITA, KS 67212

**Revisions**  
 1-26-16 PPD  
 Project Number  
**SJCF 5098.00**

Date  
**APRIL 2014**  
**EROSION CONTROL PLAN**  
 1" = 50'-0"  
**C20.4**



**BENCHMARKS**

**BENCH MARK #1:** CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB AT THE SOUTHWEST CORNER OF THE NORTH PARKING LOT OF NORTHWEST HIGH SCHOOL, 110.5' NORTH OF THE WESTERLY MOST NORTH BUILDING CORNER  
ELEVATION = 1348.90 (NAVD88)

**BENCH MARK #2:** CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE EAST SIDE OF CURVED DRIVE ON THE WEST SIDE OF NORTHWEST HIGH SCHOOL, SIDE SIDE OF SIDEWALK RAMP, 131± WEST OF THE WESTERLY MOST BUILDING FACE  
ELEVATION = 1347.62 (NAVD88)

**BENCH MARK #3:** CHISELED SQUARE WITH DIVOT ON THE NORTHWEST CORNER OF A CONCRETE WATER VAULT, BETWEEN BALL FIELDS ON THE EAST SIDE OF NORTHWEST HIGH SCHOOL, 168' EAST - NORTHEAST OF EASTERLY MOST BUILDING CORNER  
ELEVATION = 1348.11 (NAVD88)

**BENCH MARK #4:** CHISELED SQUARE WITH DIVOT ON THE TOP OF CURB ON THE NORTHERLY SIDE OF DRIVE ENTRANCE, NORTHEAST OF NORTH PARKING AREA, 36' NORTHERLY OF NORTHWEST CURB RETURN, 275± SOUTH OF CENTERLINE OF 13TH STREET NORTH, NORTHWEST HIGH SCHOOL  
ELEVATION = 1348.75 (NAVD88)

**BENCH MARK #5:** CHISELED SQUARE WITH DIVOT ON THE CONCRETE WALK ON THE WEST SIDE OF THE NORTH ENTRANCE TO THE TENNIS COURTS, WEST OF THE FOOTBALL FIELD  
ELEVATION = 1346.40 (NAVD88)

**LEGAL DESCRIPTION**

Lot 1, Block A, Northwest High School Addition, Wichita, Sedgwick County Kansas.

**LEGEND**

**Existing UTILITIES:**

---	---	---	---	---	Underground Electric Service
---	---	---	---	---	Overhead Electric
---	---	---	---	---	Water Line
---	---	---	---	---	Gas Line
---	---	---	---	---	Storm Water Sewer Pipe
---	---	---	---	---	Sanitary Sewer Line
---	---	---	---	---	Telecommunication Line
---	---	---	---	---	Cable TV Line

**Utility To Be Removed**

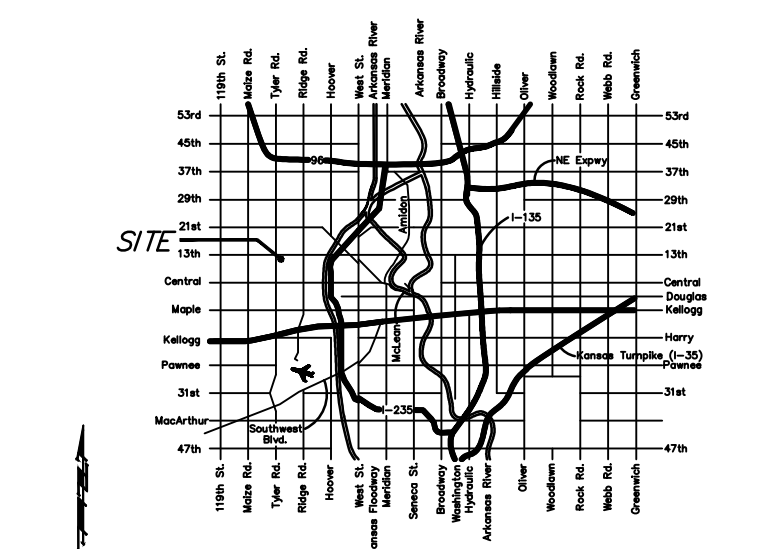
**Limits of Construction**

**SRI Fence**

**Curb Inlet Sediment Barrier**

**Area Inlet Sediment Barrier**

**Area Inlet Sediment Barrier**



NO SCALE:

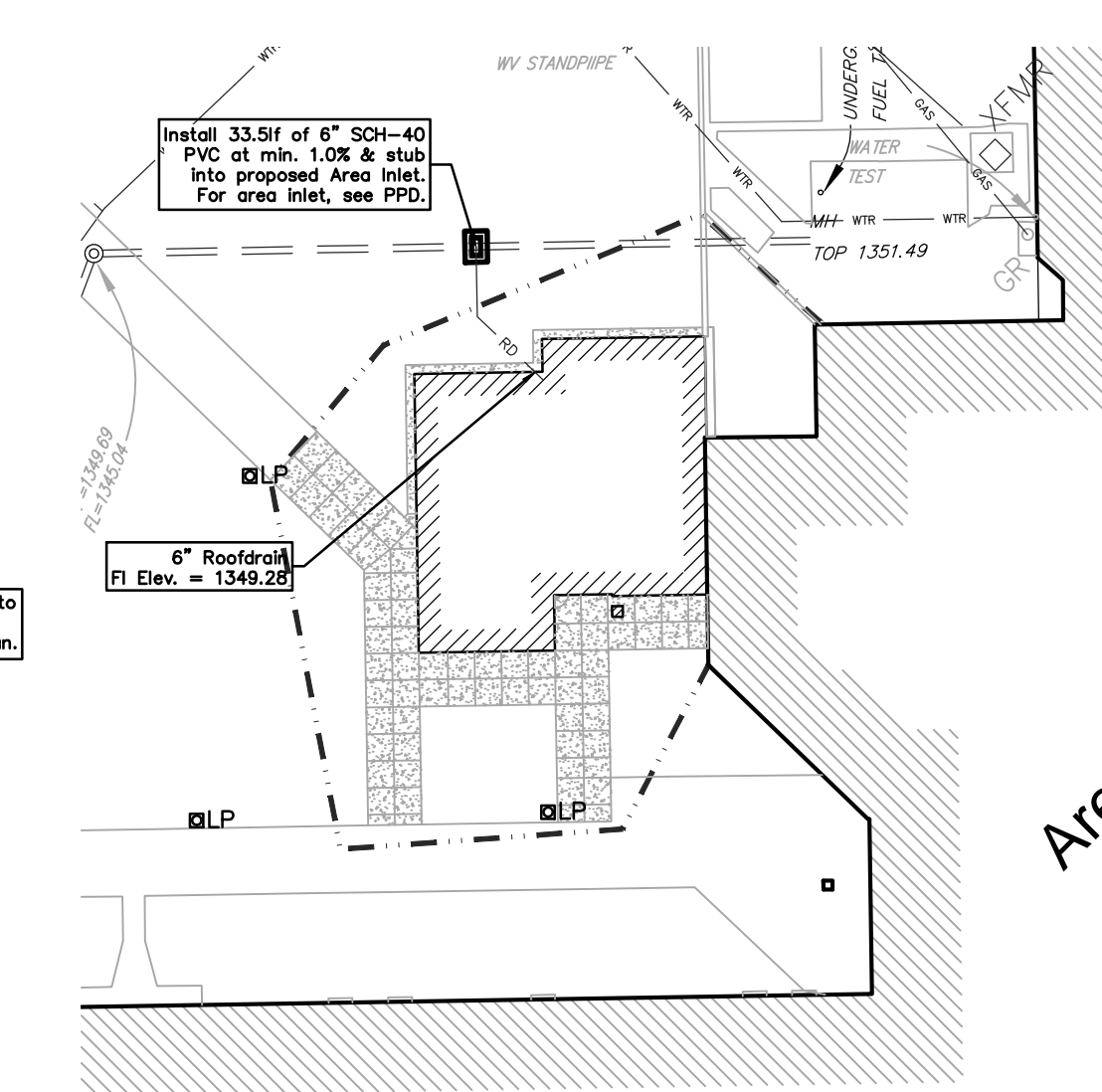
Area: A

Area: C

Area: D

Area: G

Area: J



**SECTION B UTILITY PLAN**  
Scale 1" = 30'-0"

**FOR REFERENCE ONLY  
SEE APPROVED FINAL SITE  
PLANS FOR CONSTRUCTION**

**SCHAEFER JOHNSON COX FREY**  
ARCHITECTURE  
515 E. 10th St., Wichita, KS 67202  
316.262.2271  
www.sjcf.com

**DUDLEY WILLIAMS & ASSOCIATES, P.C.**  
STRUCTURAL ENGINEERS  
**MIDWEST ENGINEERING, INC.**  
MECHANICAL ENGINEERS  
**JOHNSON ENGINEERING**  
ELECTRICAL ENGINEERS  
**BAUGHMAN COMPANY, P.A.**  
CIVIL ENGINEERS

**USD 259**  
NORTHWEST HIGH SCHOOL  
ADDITION AND REMODEL  
BID NO. 14-25089  
1220 N. TYLER ROAD  
WICHITA, KS 67212

©2013  
Schaefer Johnson Cox Frey Architects, Inc.  
All rights reserved.

These drawings and their contents, including but not limited to, all concepts, designs, & details are the exclusive property of Schaefer Johnson Cox Frey Architects, Inc. and may not be used or reproduced in any way without the express written consent of Schaefer Johnson Cox Frey Architects, Inc.

Revisions

Project Number  
S/JCF 5098.00

Date  
APRIL 2014

UTILITY PLAN

1" = 50'-0"

**C22.0**

**UTILITY PLAN**  
Scale 1" = 30'-0"



**Baughman Company, P.A.**  
1315 S. 10th St., Wichita, KS 67211  
316.262.2271 | 316.262.0149  
E: Denny@baughman.com | www.baughman.com

**Baughman Company, P.A.**  
316 E. 10th St., Wichita, KS 67211 | 316.262.2271 | F: 316.262.0149  
www.baughman.com | www.baughman.com | Bid No. 14-25089

**USD 259 Northwest High School  
Reference  
Utility Plan**  
Storm Water Drain Improvements

