



Construction Engineering Division
1801 S. McLean Blvd., Suite B
Wichita KS, 67213
(316) 268-4027

Plan Deviations/Changes

Project Name: SS_WDS_SWD #517 to serve Falcon Falls East 2nd Addn, Ph 1

Project Location: N of K-254, East of Hillside

Project No: 468-2023-031005_448-2023-031003_468-2023-085551

MUNIS No: E3162/47270623_E3164/47122623_E3163/47313323

Contractor: Nowak Construction

Inspector: Fred Smith - Baughman

Description of changes made from the plans during construction

- ~~1. Water Line #3 - Sta. 4+40.56: 22.5 degree fitting eliminated.~~
- ~~2. Water Line #1 - Sta. 0+05: 11.25 degree fitting eliminated.~~
3. SWS Line #2 - Sta. 1+42 to Sta. 1+84: Replaced 36" RCP with 29"x45" HERCP per C.O. #1.
4. SWS Line #3 - Sta. 1+46 to Sta. 1+88: Replaced 36" RCP with 29"x45" HERCP per C.O. #1.
5. SWS Line #5 - Sta. 1+45 to Sta. 1+89: Replaced 30" RCP with 24"x38" HERCP per C.O. #1.
- ~~6. SS Line #1 - Sta. 0+00: Manhole raised to 1349.16.~~

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

DRY POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0

Sta. 0+00.0, Begin Line 1
 Begin Construction of 18" RCP w/ Restrained End Section and 30 S.Y. of Light Stone Rip-Rap per Detail A, Sheet 9

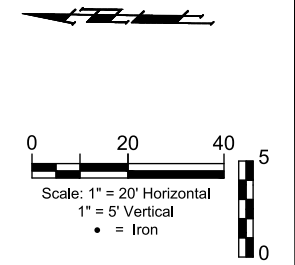
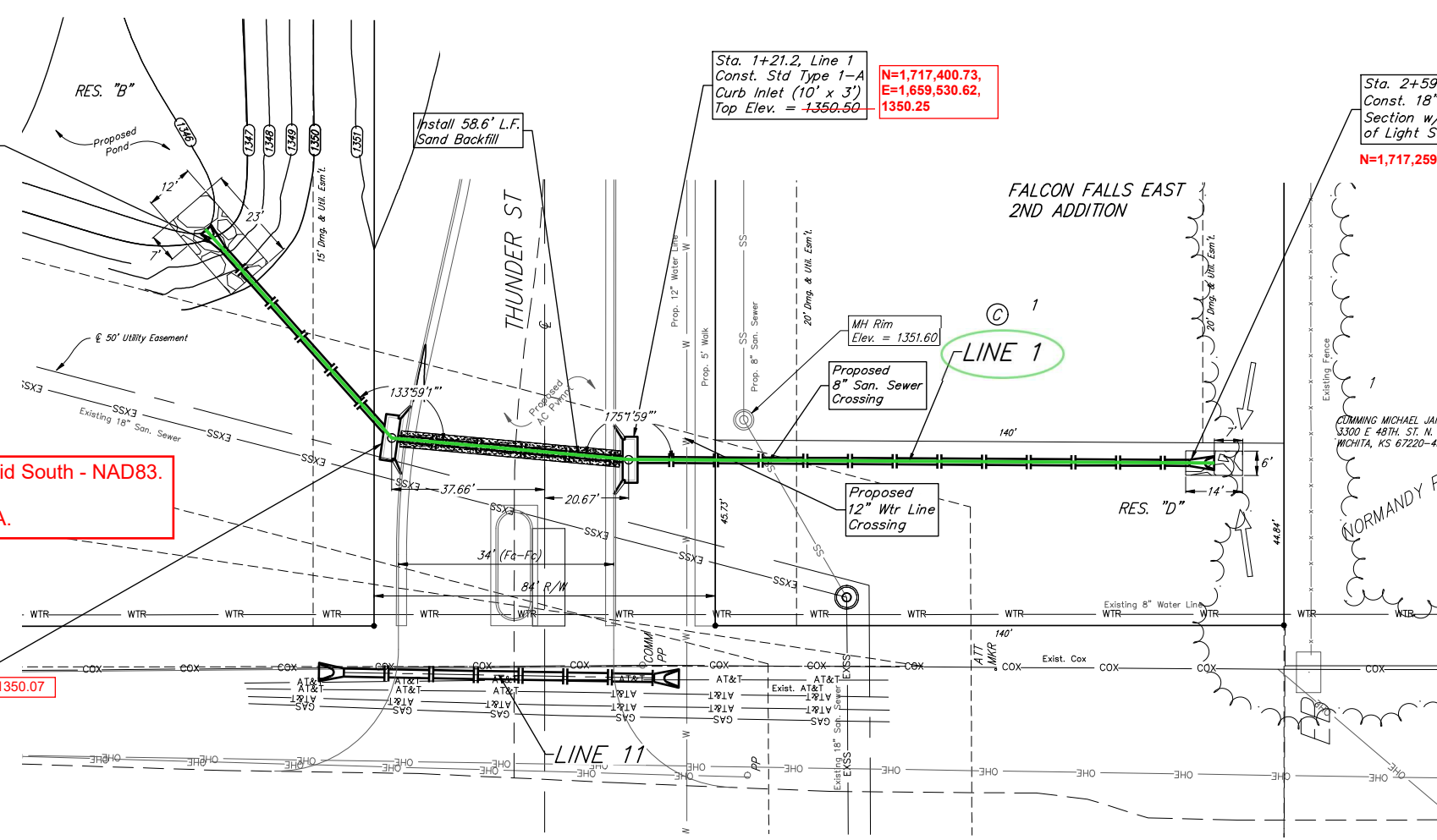
N=1,717,504.66, E=1,659,583.80

Sta. 1+21.2, Line 1
 Const. Std Type 1-A Curb Inlet (10' x 3')
 Top Elev. = 1350.50
 N=1,717,400.73, E=1,659,530.62, 1350.25

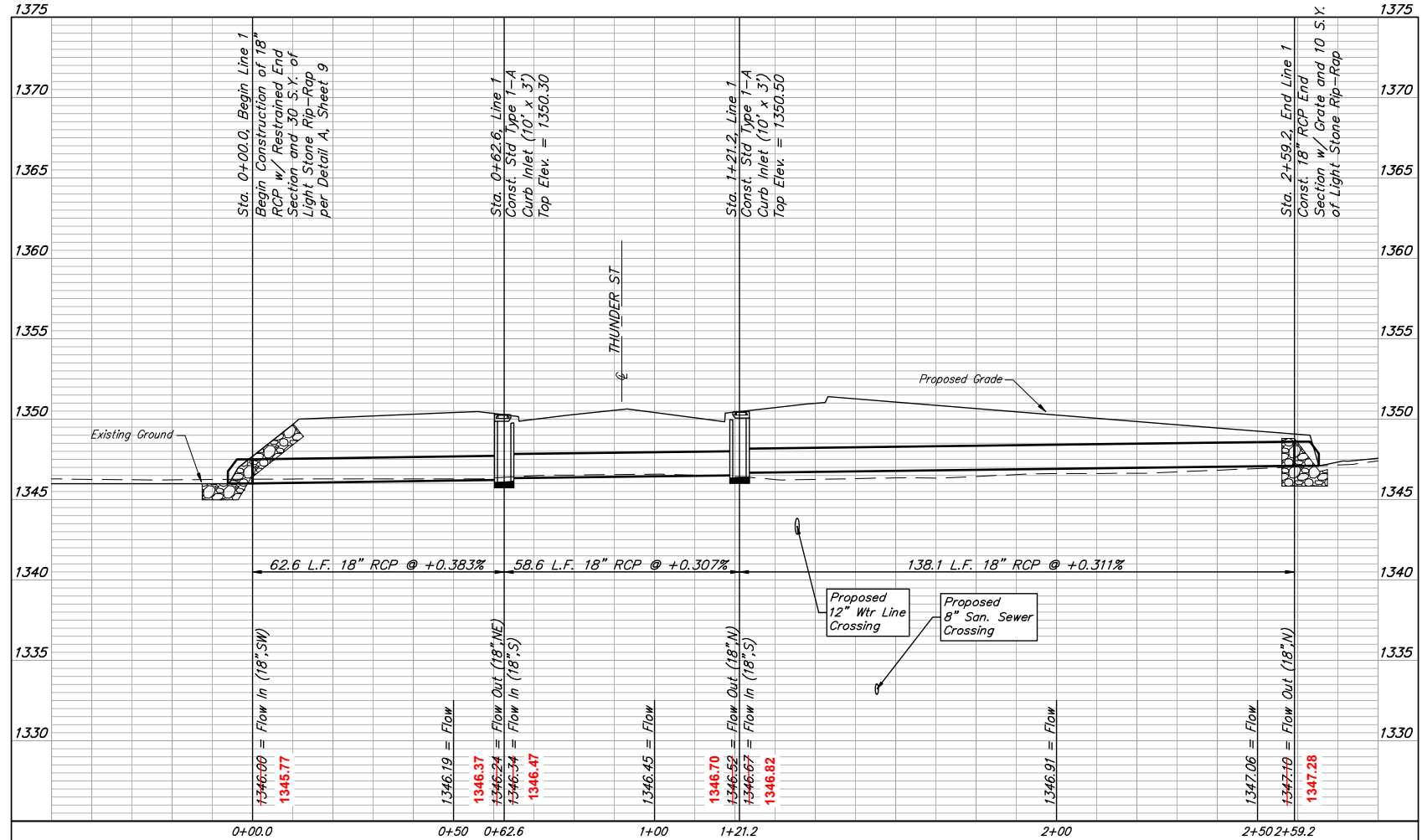
Sta. 2+59.2, End Line 1
 Const. 18" RCP End Section w/ Gate and 10 S.Y. of Light Stone Rip-Rap
 N=1,717,259.49, E=1,659,530.80

Northings and Eastings: State Plane Coordinates - Kansas Grid South - NAD83.
 Elevations: NAVD88
 GPS Survey Shots By: Fred Smith - Baughman Company, P.A.

Sta. 0+62.6, Line 1
 Const. Std Type 1-A Curb Inlet (10' x 3')
 Top Elev. = 1350.30
 N=1,717,460.60, E=1,659,535.18



All trench and manhole excavation areas from Sta. 0+62.6 to Sta. 1+21.2, Line 1 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".

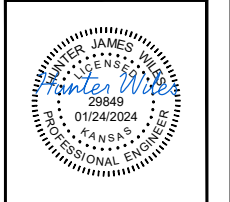


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 315 Ellis St.
 Wichita, KS 67211
 316-262-7271
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FALCON FALLS EAST 2ND ADDITION

LINE 1

STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024
 SHEET 02 OF 35

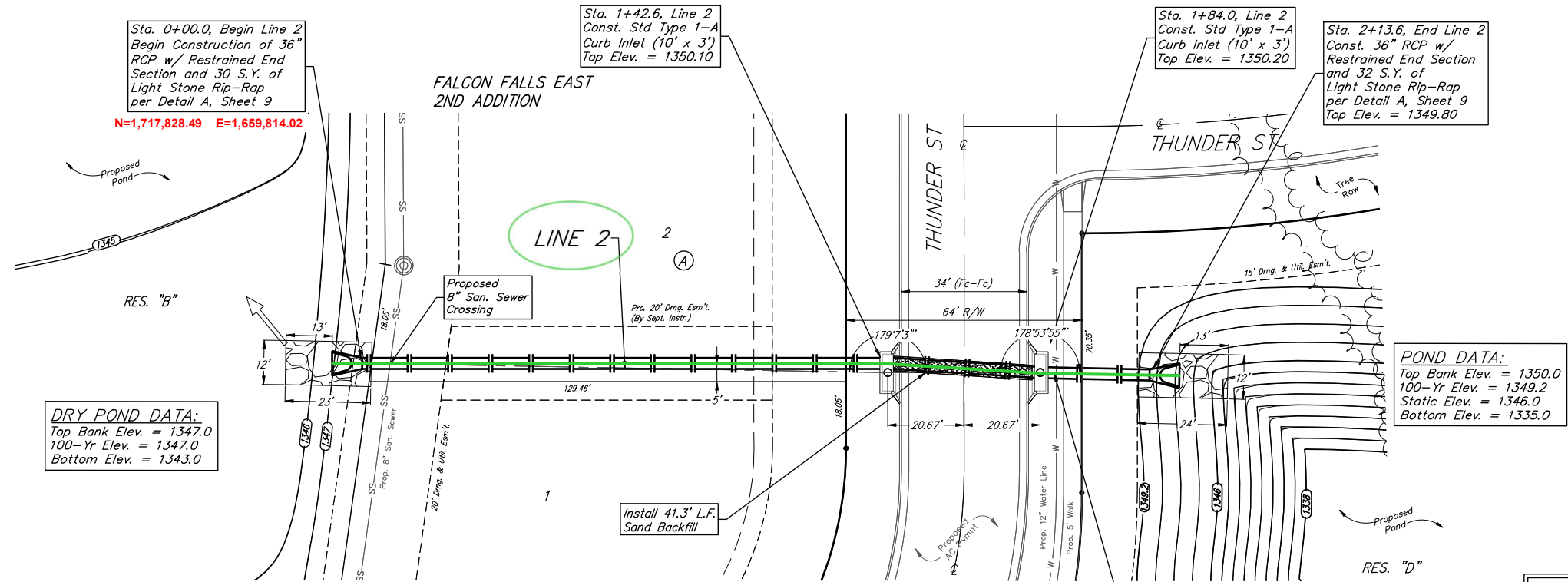


File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

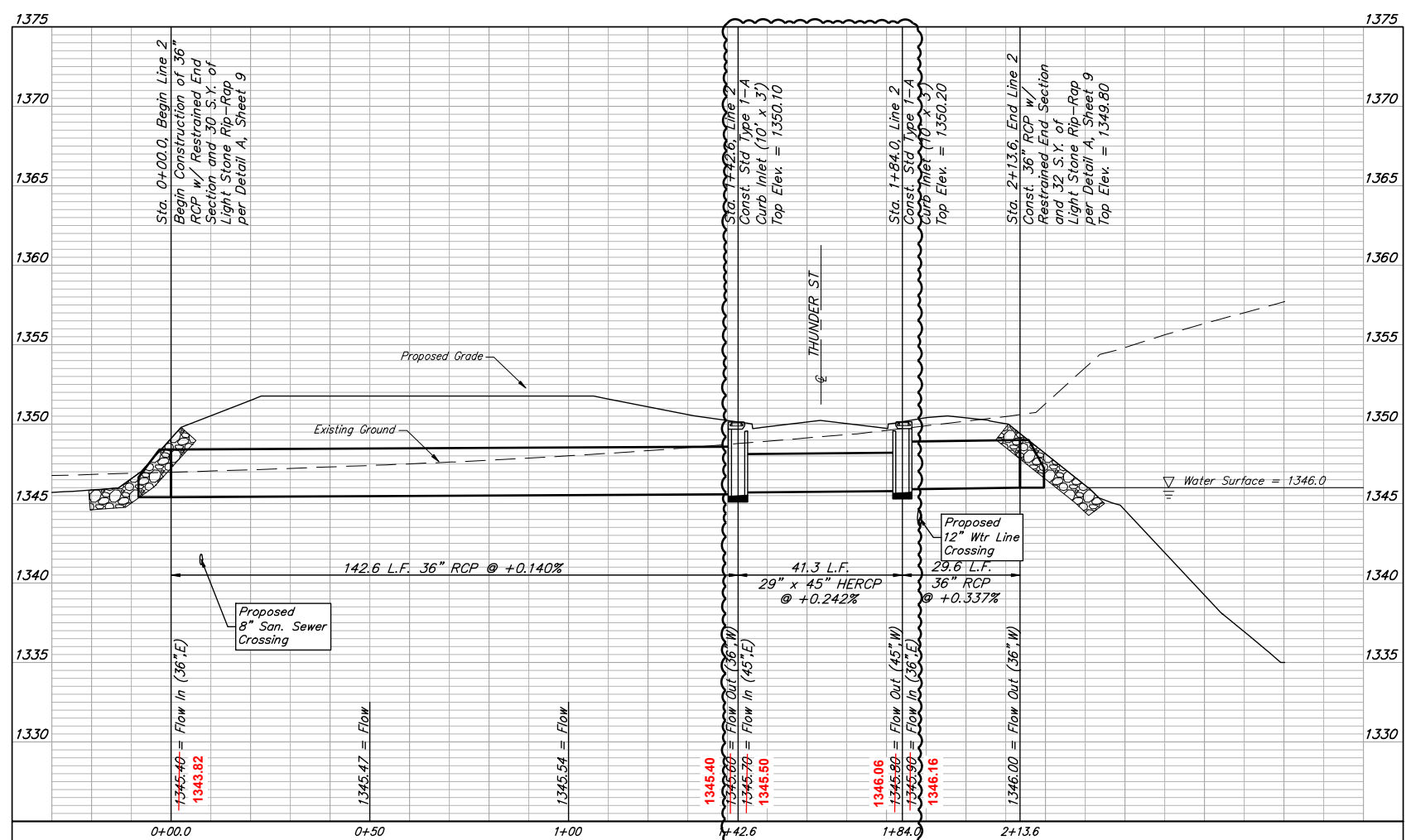
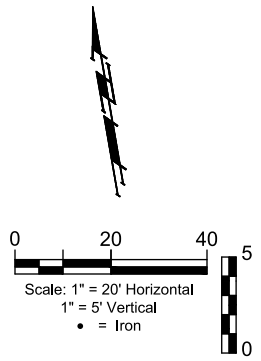
Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



DRY POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0

POND DATA:
 Top Bank Elev. = 1350.0
 100-Yr Elev. = 1349.2
 Static Elev. = 1346.0
 Bottom Elev. = 1335.0

All trench and manhole excavation areas from Sta. 1+42.6 to Sta. 1+84.0, Line 2 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



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FALCON FALLS EAST 2ND ADDITION

LINE 2

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: February 28, 2024
 SHEET **03** OF **35**

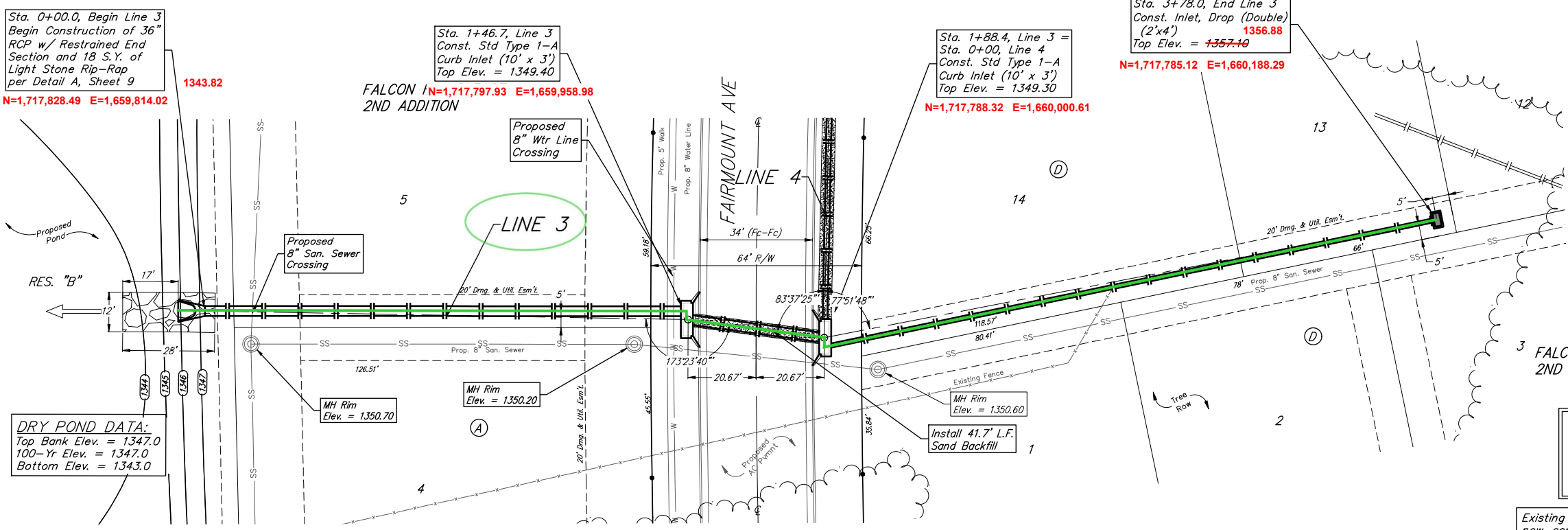
REVISION: Pipe between Curb Inlets changed from 36" RCP to 45" x 29" HERCP
 Date: 2/28/2024
 By: AJV

File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWWS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

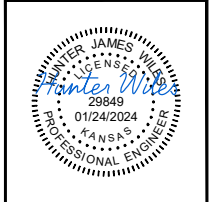
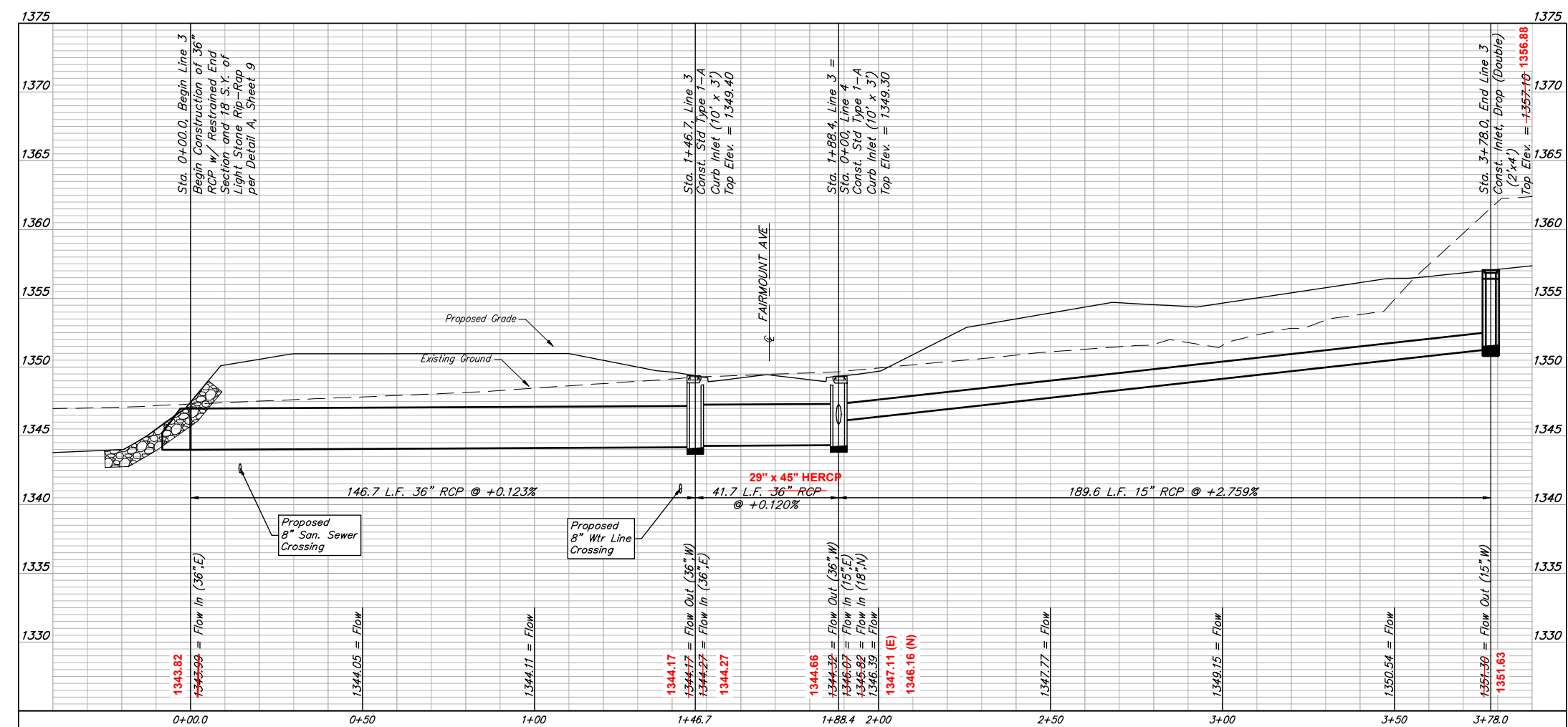
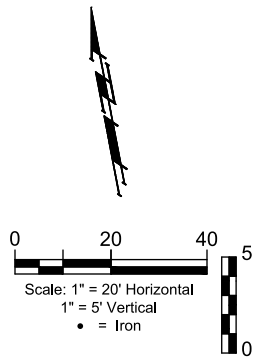
Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



DRY POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0

All trench and manhole excavation areas from Sta. 1+46.7 to Sta. 1+88.4, Line 3 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."

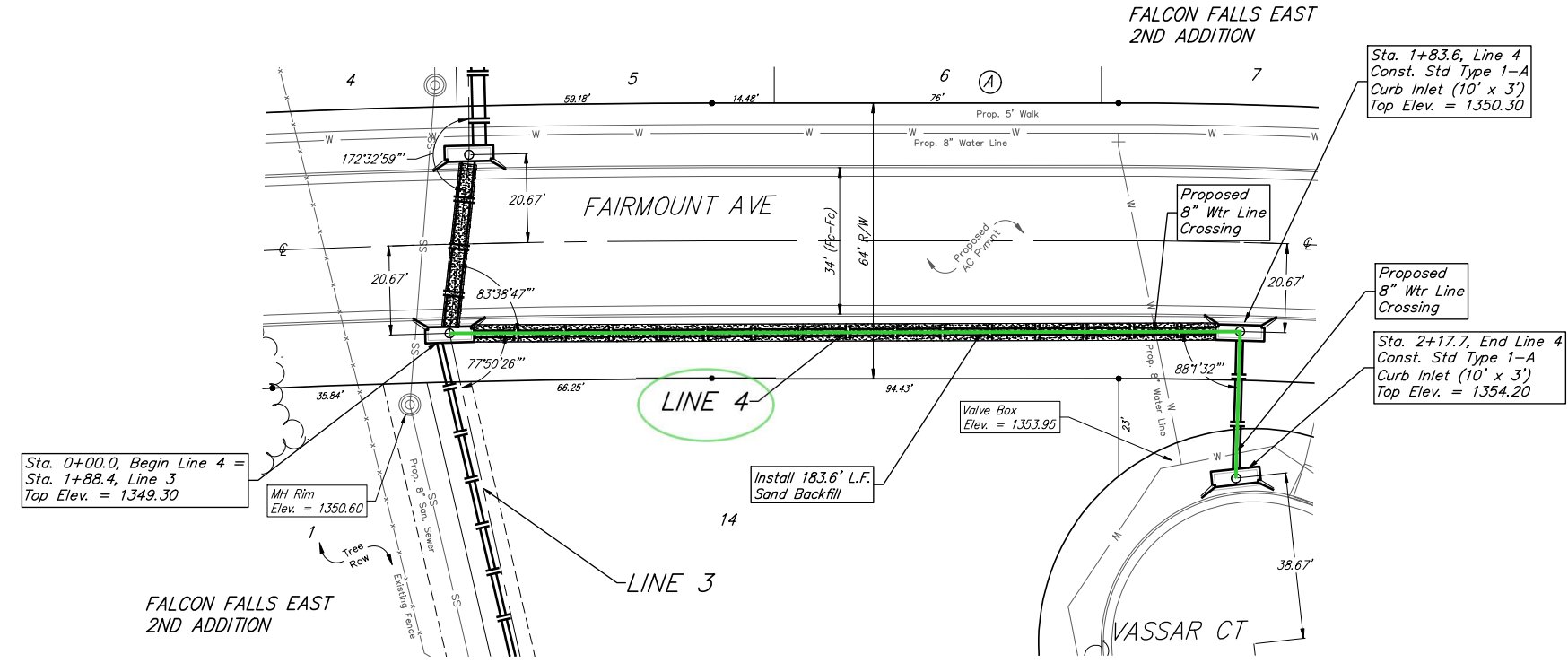
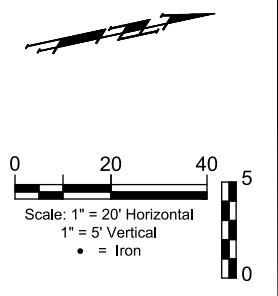


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FALCON FALLS EAST 2ND ADDITION
LINE 3
 STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024
 SHEET **04** OF **35**

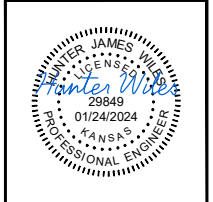
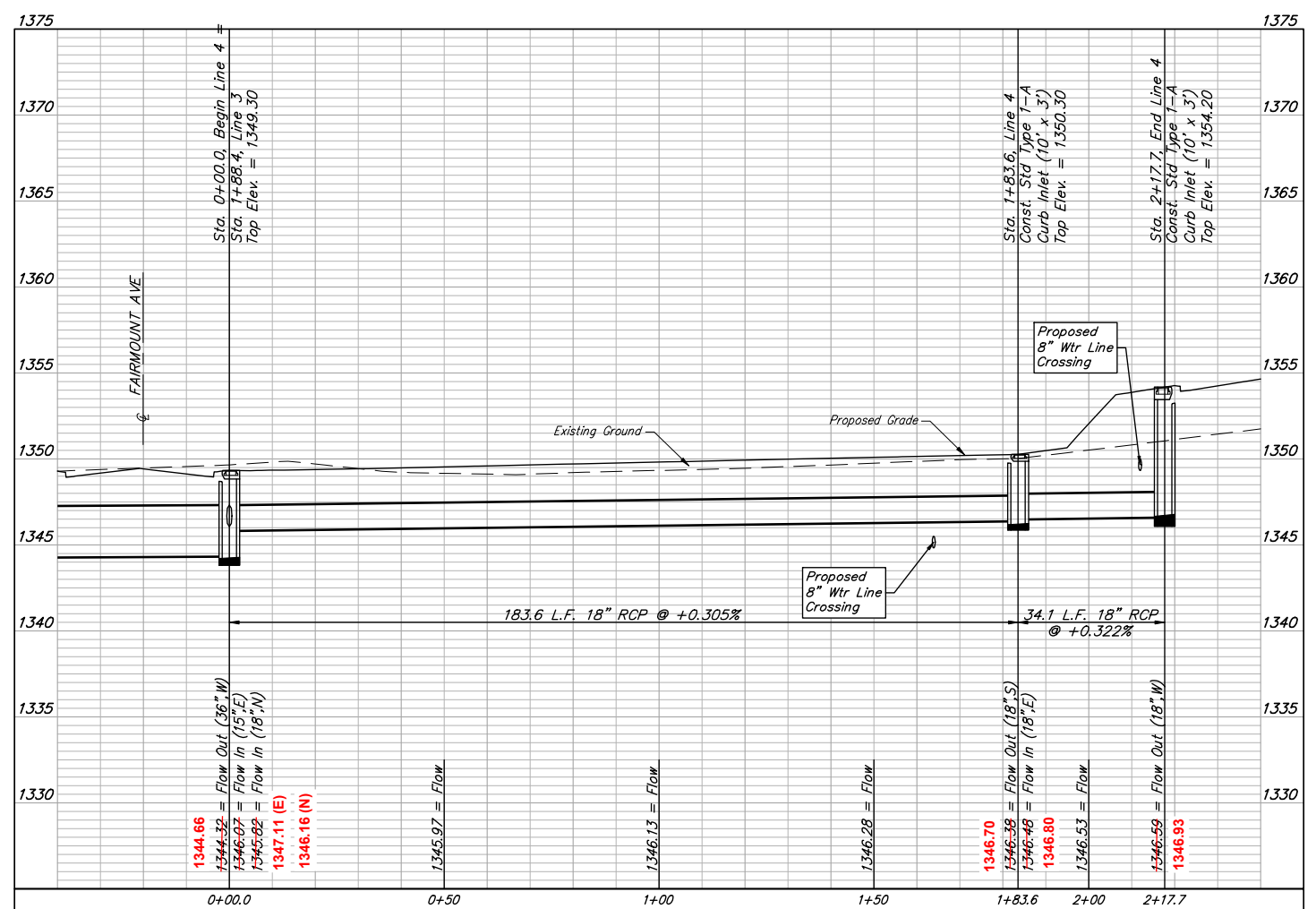
File: E:\Projects\Falcon Falls East 2nd 23-02-P865\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly R/CB, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88



All trench and manhole excavation areas from Sta. 0+00.0 to Sta. 1+83.6, Line 4 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."



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FALCON FALLS EAST 2ND ADDITION
LINE 4
 STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024
 SHEET **05** OF **35**

File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

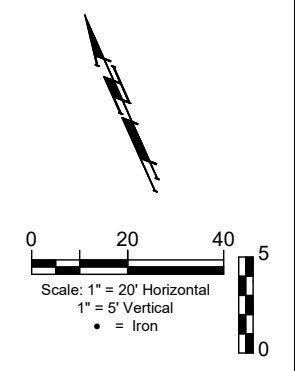
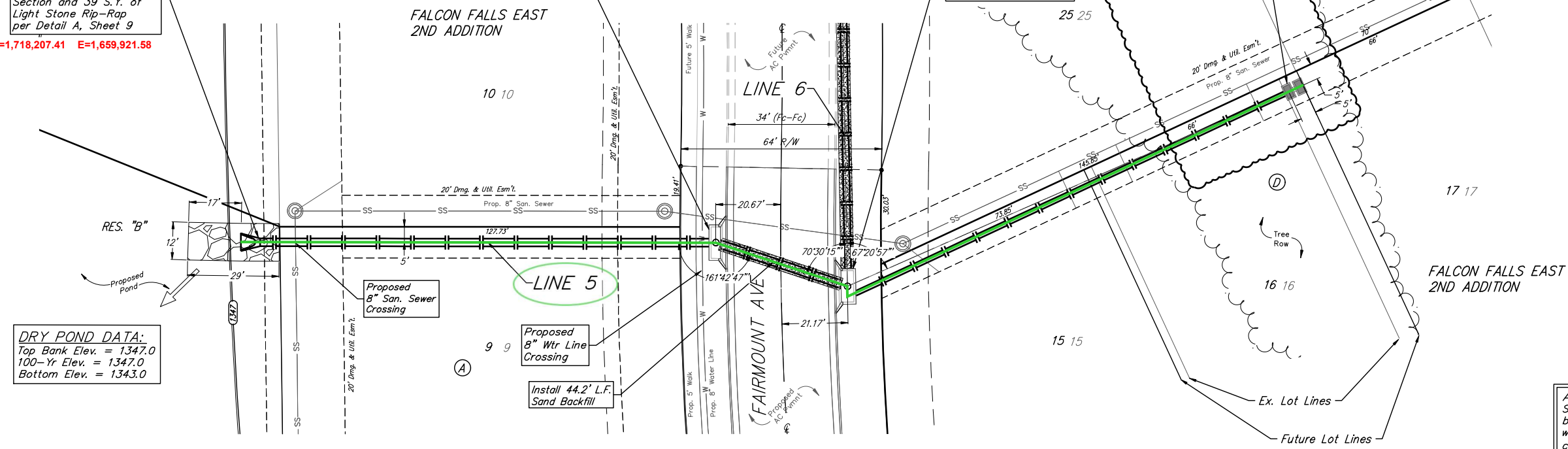
BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

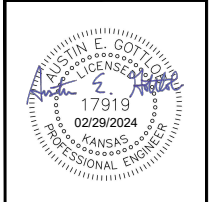
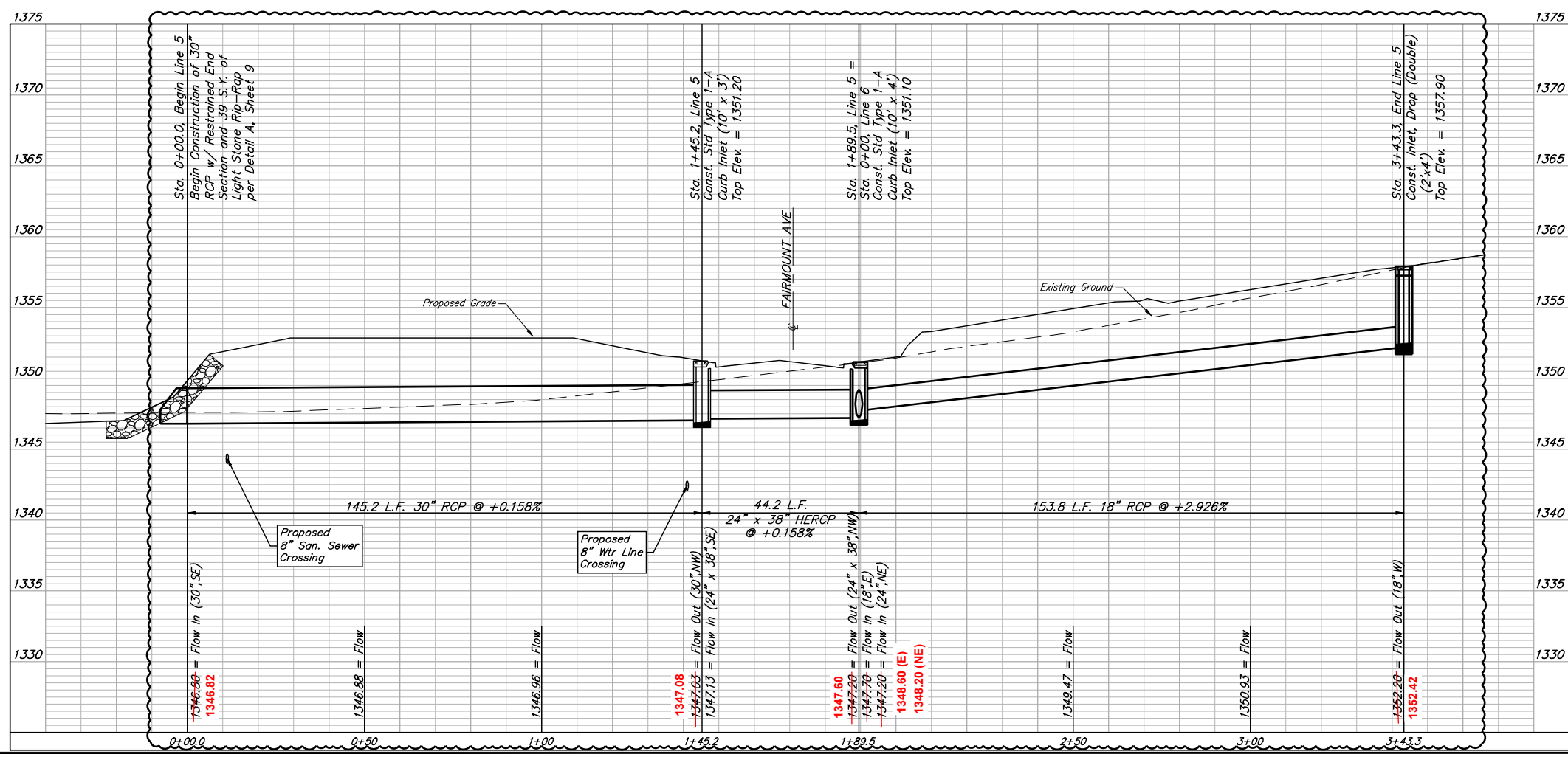
Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88

Sta. 0+00.0, Begin Line 5
 Begin Construction of 30" RCP w/ Restrained End Section and 39 S.Y. of Light Stone Rip-Rap per Detail A, Sheet 9
N=1,718,207.41 E=1,659,921.58

DRY POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0



All trench and manhole excavation areas from Sta. 1+49.2 to Sta. 1+93.4, Line 5 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



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FALCON FALLS EAST 2ND ADDITION

LINE 5

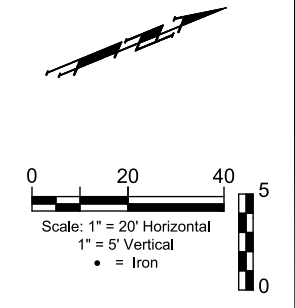
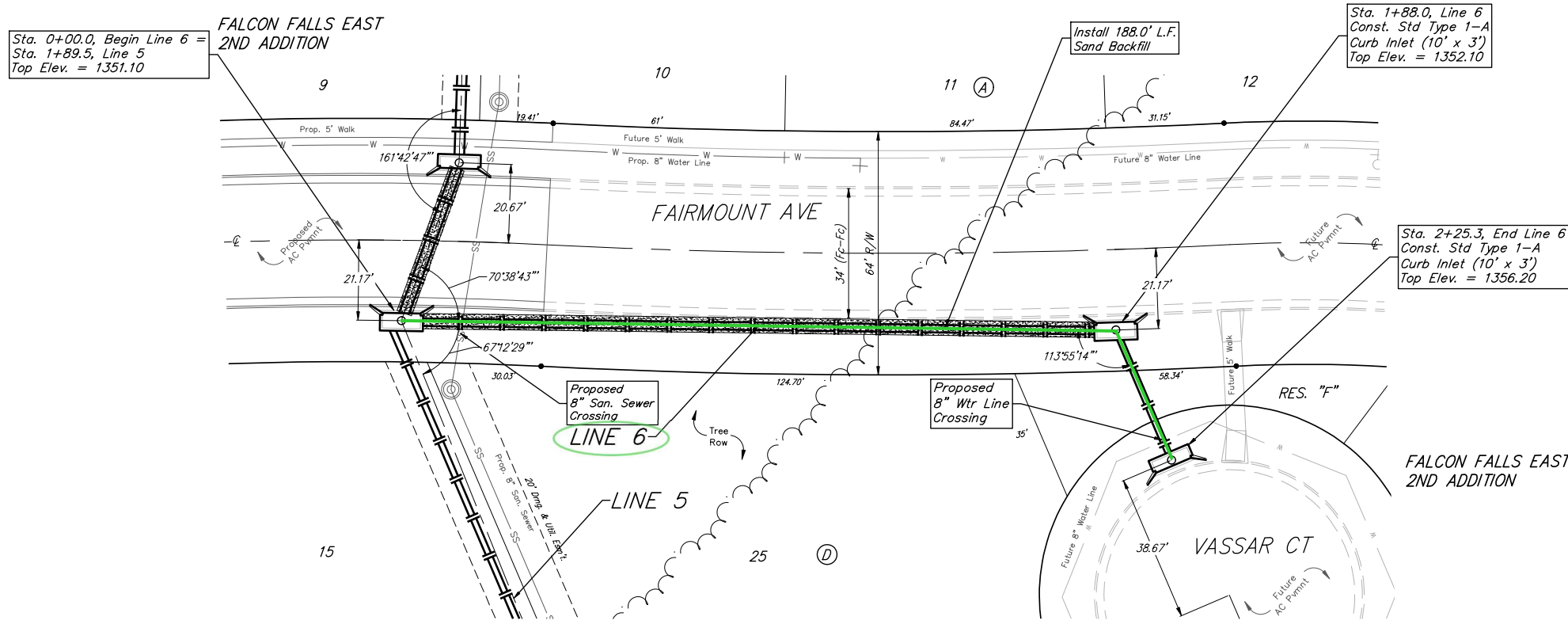
STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: February 29, 2024
 SHEET **06** OF **35**

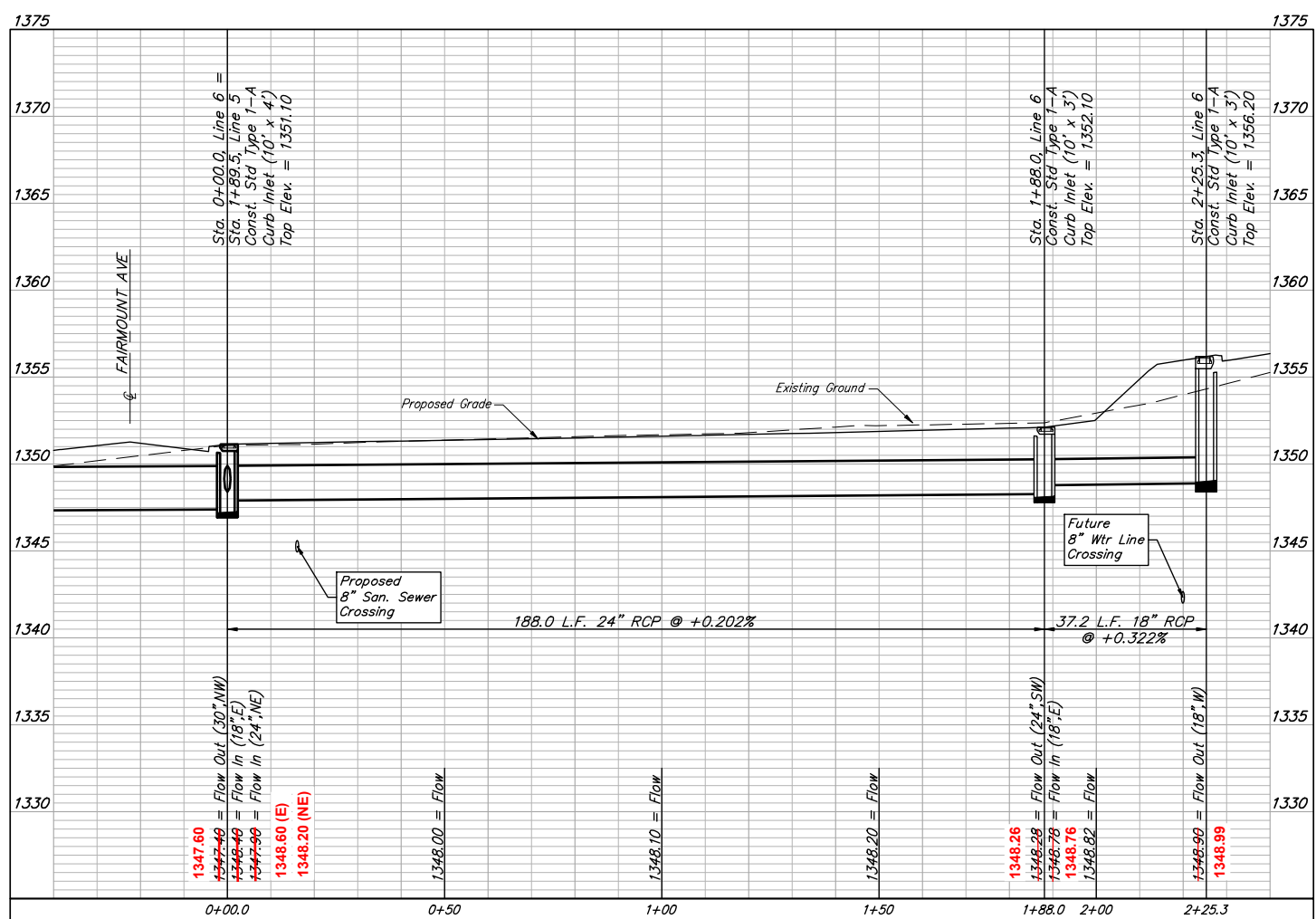
REVISIONS:
 Flow from Sta. 0+00 to 1+89.5 lowered 0.2' Inlet Drop (Double) (2x1) Shifted Southwest 4' Pipe between curb inlets changed from 30" RCP to 38" x 24" HERCOP

By: AJV Date: 2/28/2024
 File: E:\Projects\Falcon Falls East 2nd 23-02-P865\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



All trench and manhole excavation areas from Sta. 0+00.0 to Sta. 1+88.0, Line 6 shall be backfilled with sand. The sand backfill shall be water-jettted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".





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FALCON FALLS EAST
 2ND ADDITION

LINE 6

STORMWATER DRAIN
 IMPROVEMENTS

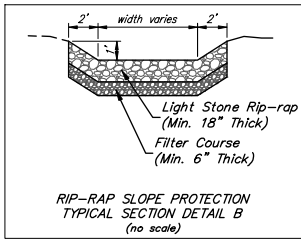
PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024

SHEET **07** OF **35**

File: E:\Projects\Falcon Falls East 2nd 23-02-P865\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

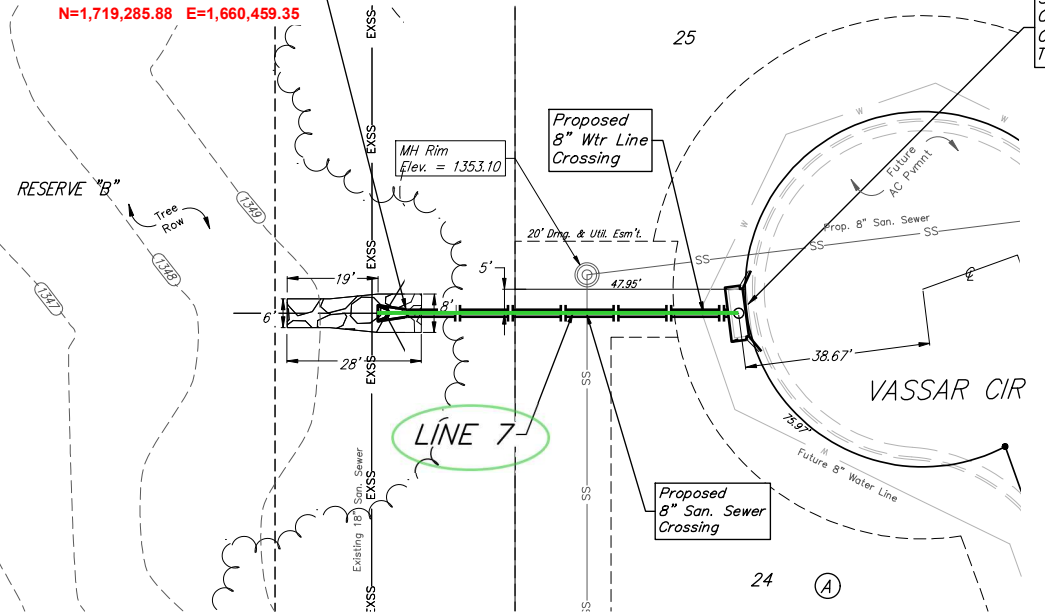
BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd Addition. Elev.=1344.07 NAVD 88
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 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



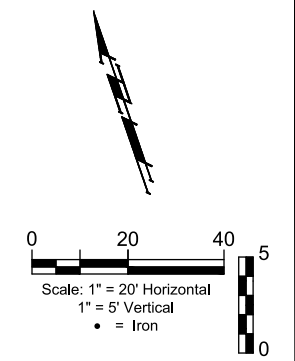
MIDDLE FORK
 CELSHOLM CREEK

Sta. 0+00.0, Begin Line 7
 Begin Construction of 15" RCP w/ Restrained End Section and 25 S.Y. of Light Stone Rip-Rap per Detail B, Sheet 8. Transition Rip-Rap Section to 6" Flat Section in 10' Past the End Section.
N=1,719,285.88 E=1,660,459.35

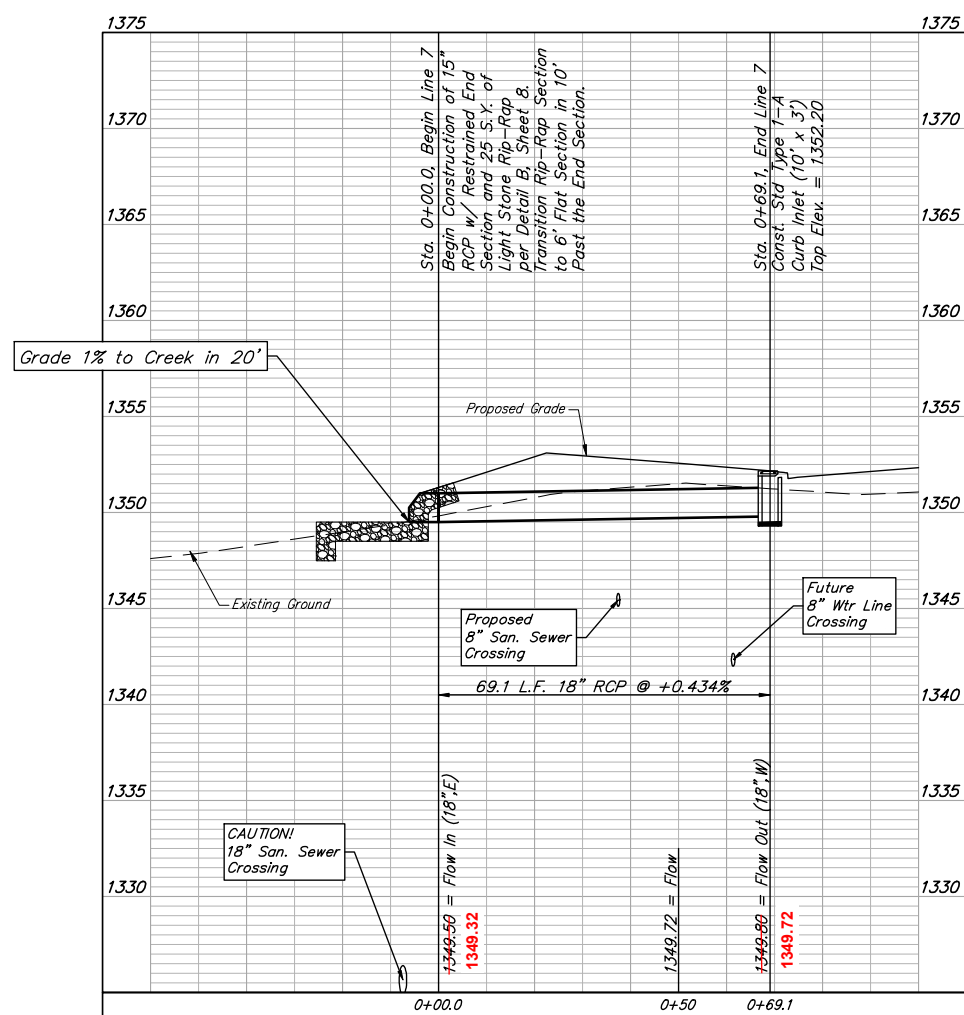
Sta. 0+69.1, End Line 7
 Const. Std Type 1-A Curb Inlet (10' x 3') Top Elev. = 1352.20



FALCON FALLS EAST
 2ND ADDITION



Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."



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FALCON FALLS EAST
 2ND ADDITION

LINE 7

STORMWATER DRAIN
 IMPROVEMENTS

PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV

DATE: January 24, 2024

SHEET **08** OF **35**

File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88

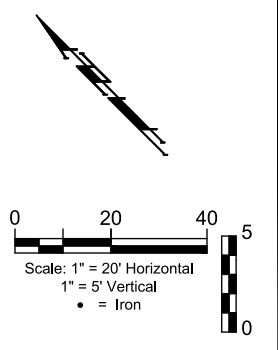
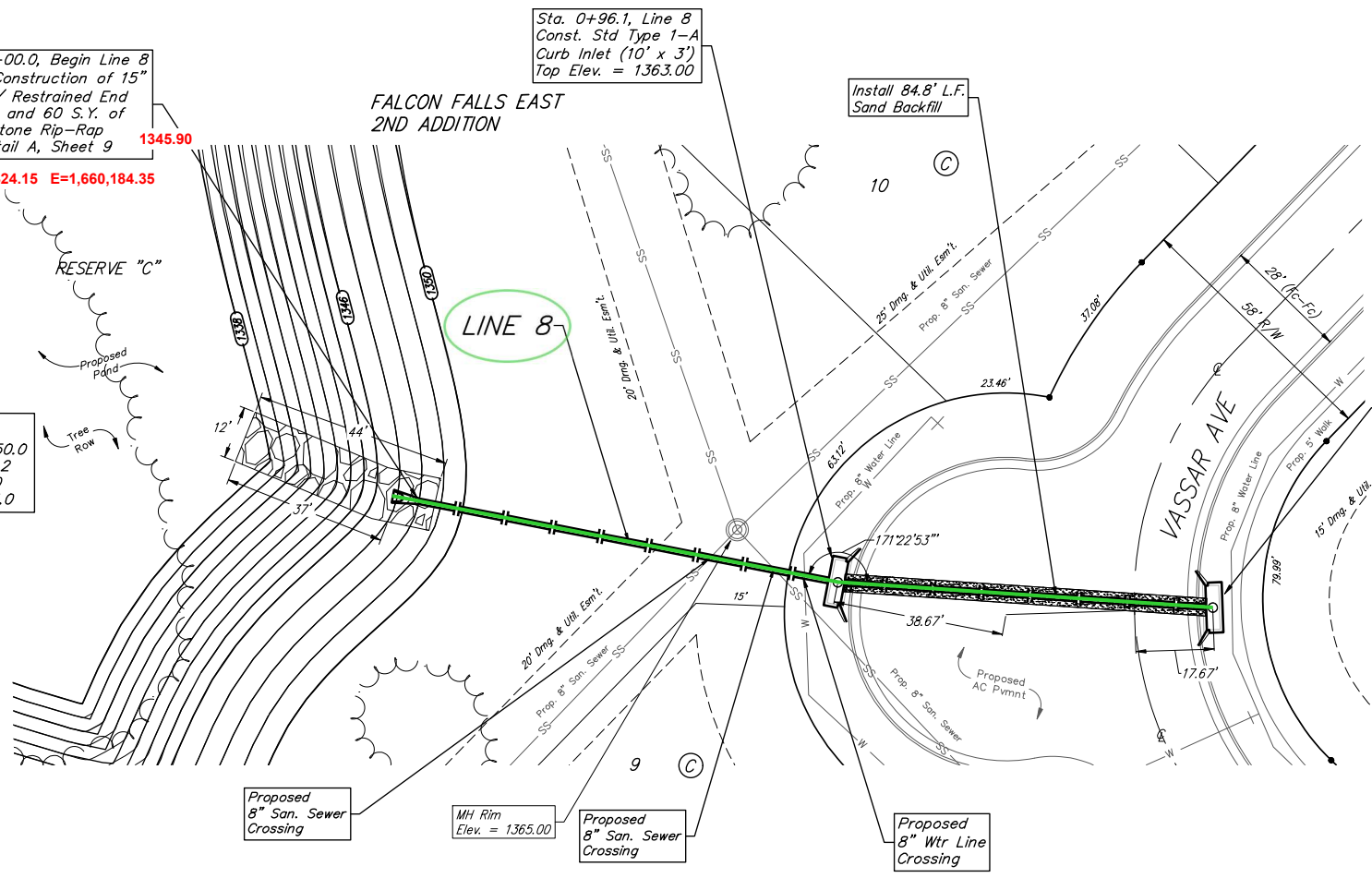
Sta. 0+00.0, Begin Line 8
 Begin Construction of 15" RCP w/ Restrained End Section and 60 S.Y. of Light Stone Rip-Rap per Detail A, Sheet 9
 1345.90
 N=1,717,324.15 E=1,660,184.35

POND DATA:
 Top Bank Elev. = 1350.0
 100-Yr Elev. = 1349.2
 Static Elev. = 1346.0
 Bottom Elev. = 1335.0

Sta. 0+96.1, Line 8
 Const. Std Type 1-A Curb Inlet (10' x 3')
 Top Elev. = 1363.00

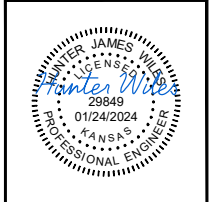
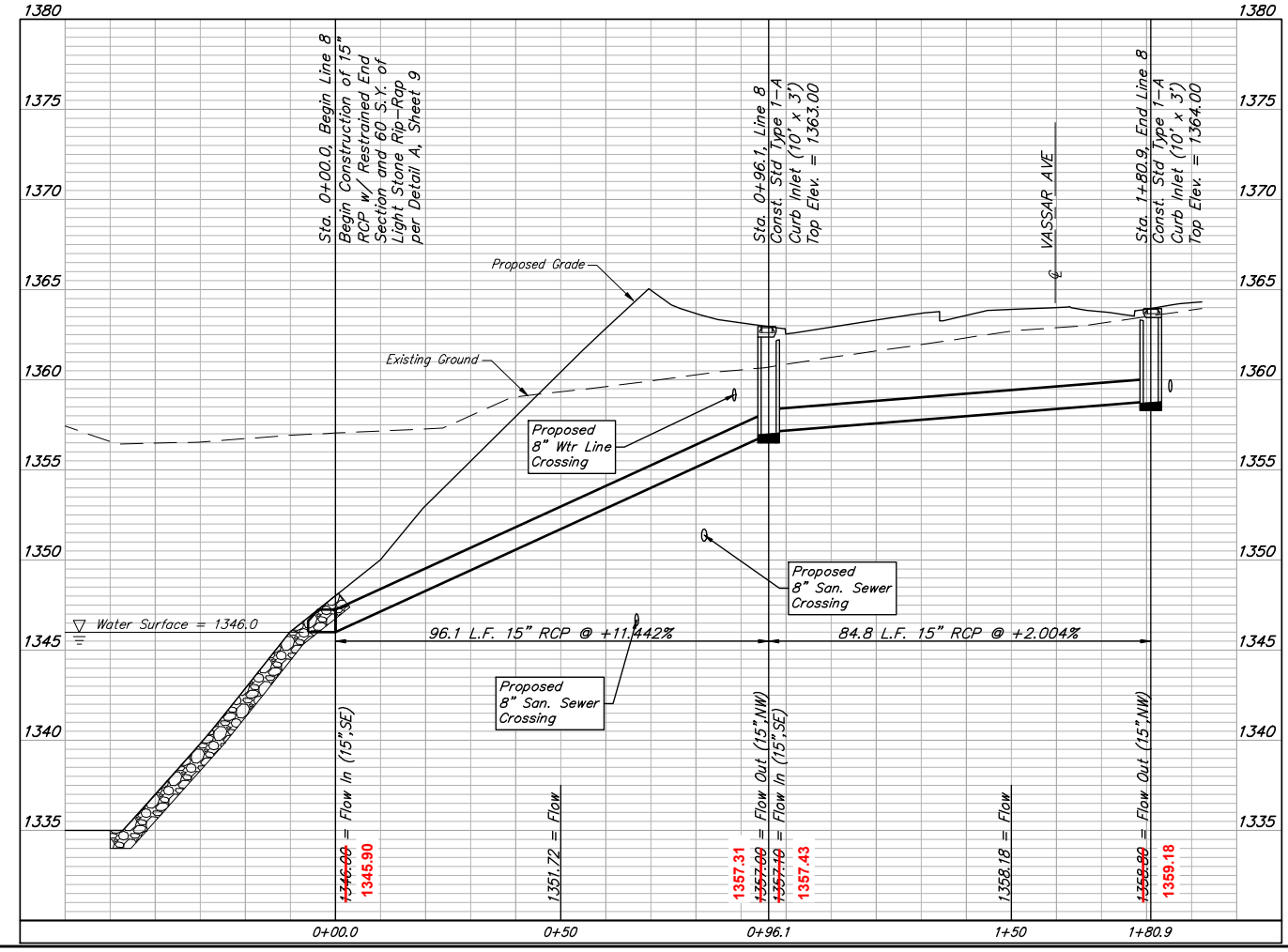
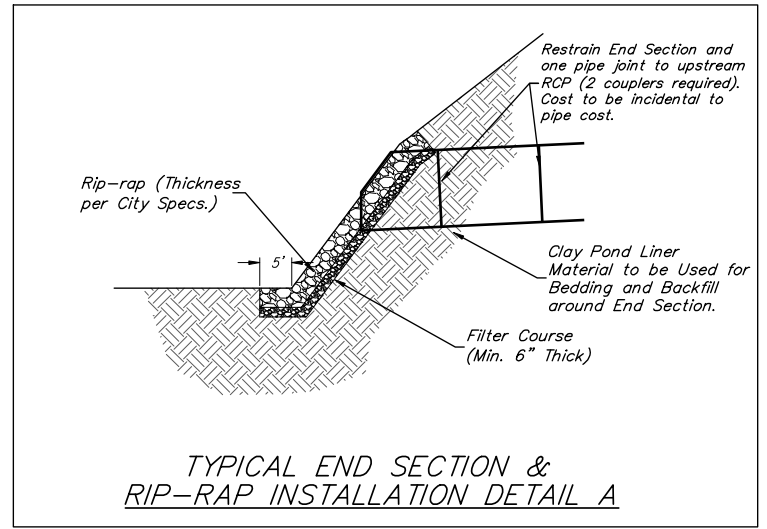
Install 84.8' L.F. Sand Backfill

Sta. 1+80.9, End Line 8
 Const. Std Type 1-A Curb Inlet (10' x 3')
 Top Elev. = 1364.00



Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."

All trench and manhole excavation areas from Sta. 0+96.1 to Sta. 1+80.9, Line 8 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



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FALCON FALLS EAST
 2ND ADDITION

LINE 8

STORMWATER DRAIN
 IMPROVEMENTS
 PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024

SHEET **09** OF **35**

File: E:\Projects\Falcon Falls East 2nd_23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWD Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St., 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

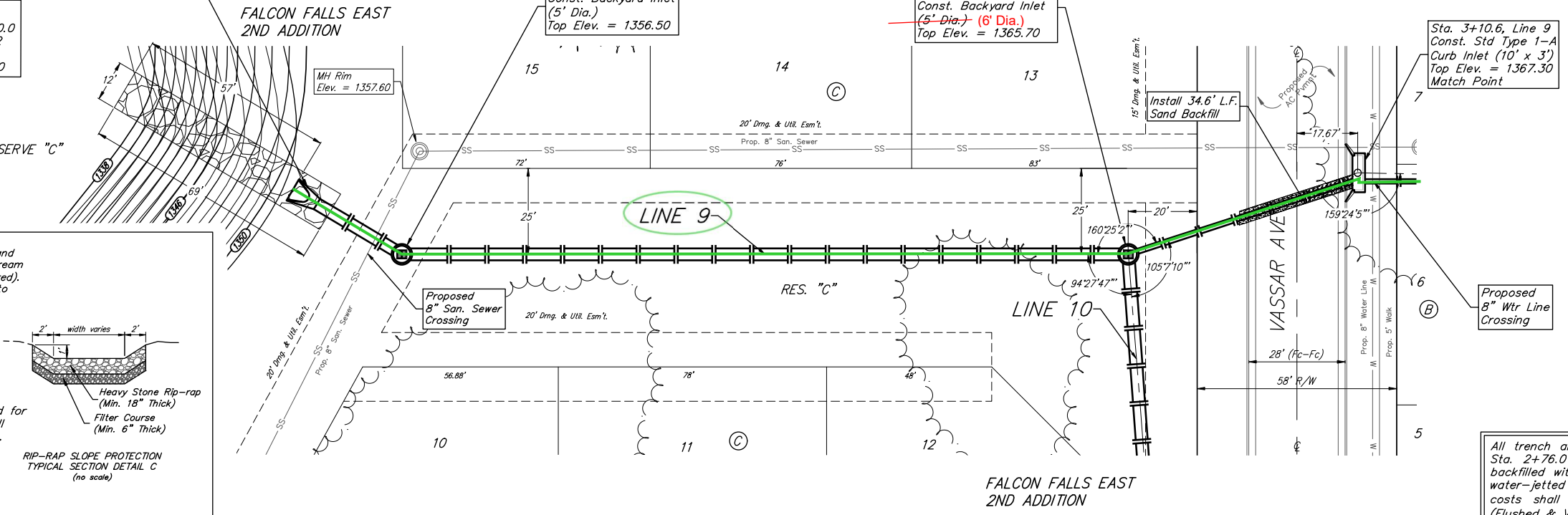
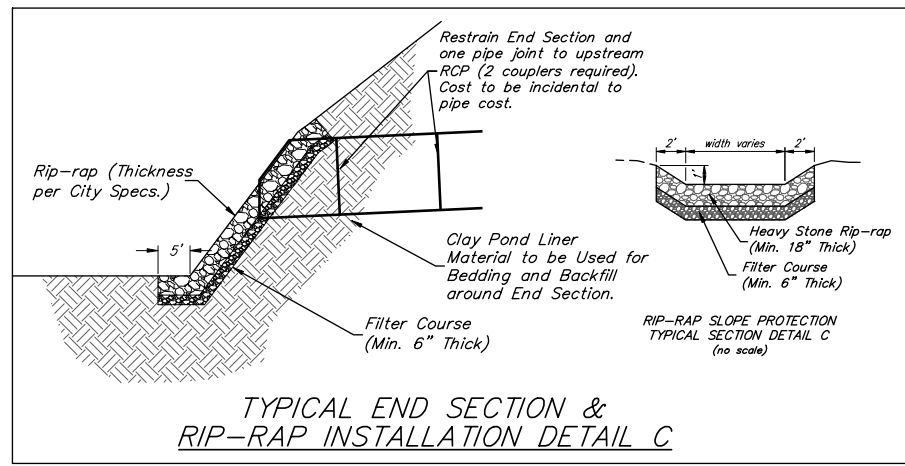
POND DATA:
 Top Bank Elev. = 1350.0
 100-Yr Elev. = 1349.2
 Static Elev. = 1346.0
 Bottom Elev. = 1335.0

Sta. 0+00.0, Begin Line 9
 Begin Construction of 42" RCP w/ Restrained End Section and 92 S.Y. of Heavy Stone Rip-Rap per Detail C, Sheet 10

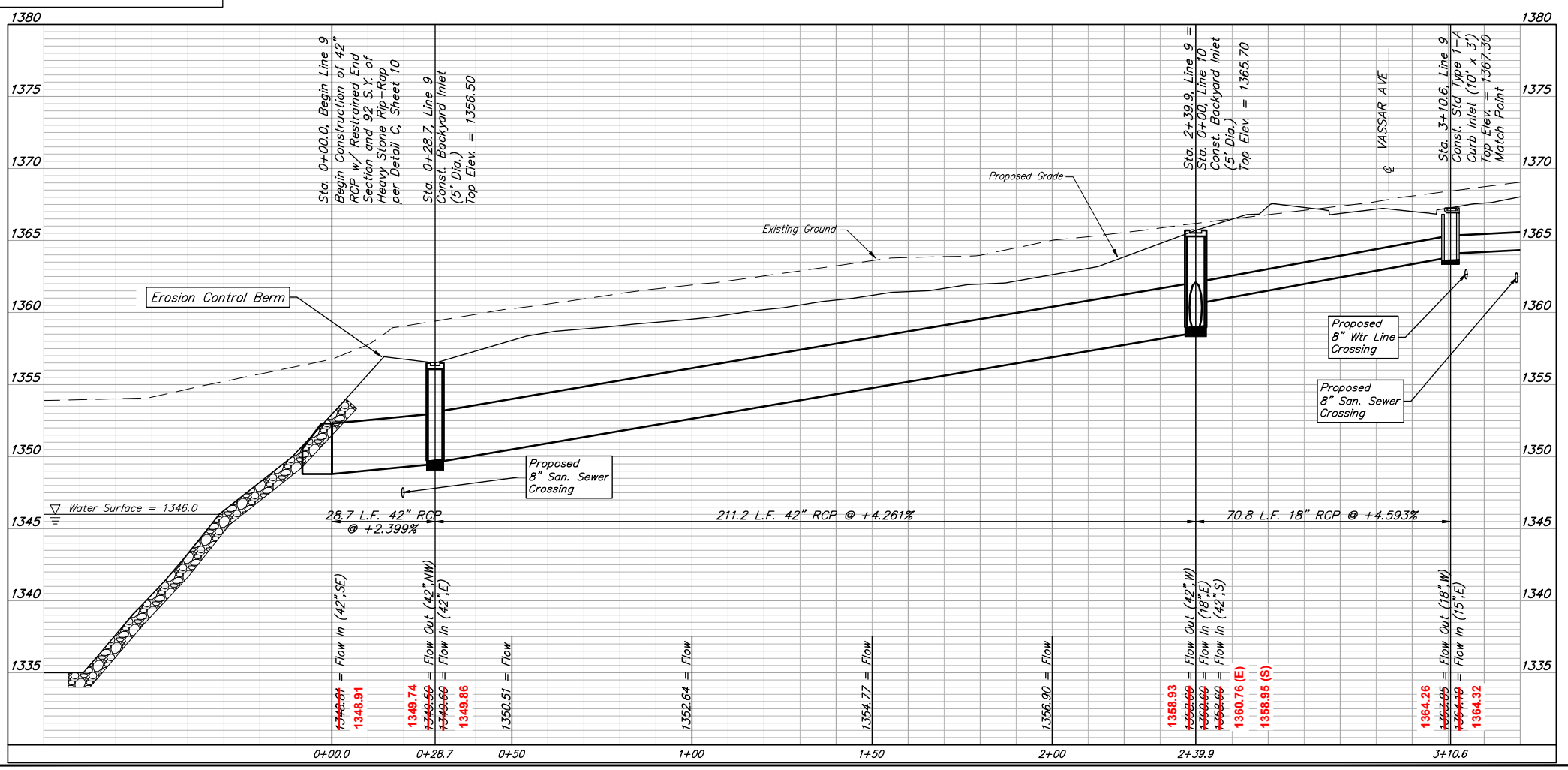
Sta. 0+28.7, Line 9
 Const. Backyard Inlet (5' Dia.)
 Top Elev. = 1356.50

Sta. 2+39.9, Line 9 =
 Sta. 0+00, Line 10
 Const. Backyard Inlet (5' Dia.) (6' Dia.)
 Top Elev. = 1365.70

Sta. 3+10.6, Line 9
 Const. Std Type 1-A Curb Inlet (10' x 3')
 Top Elev. = 1367.30
 Match Point



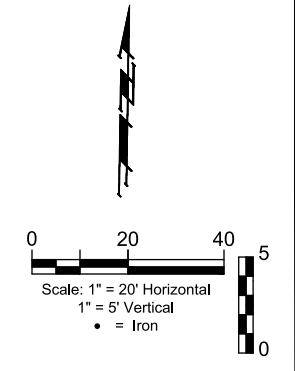
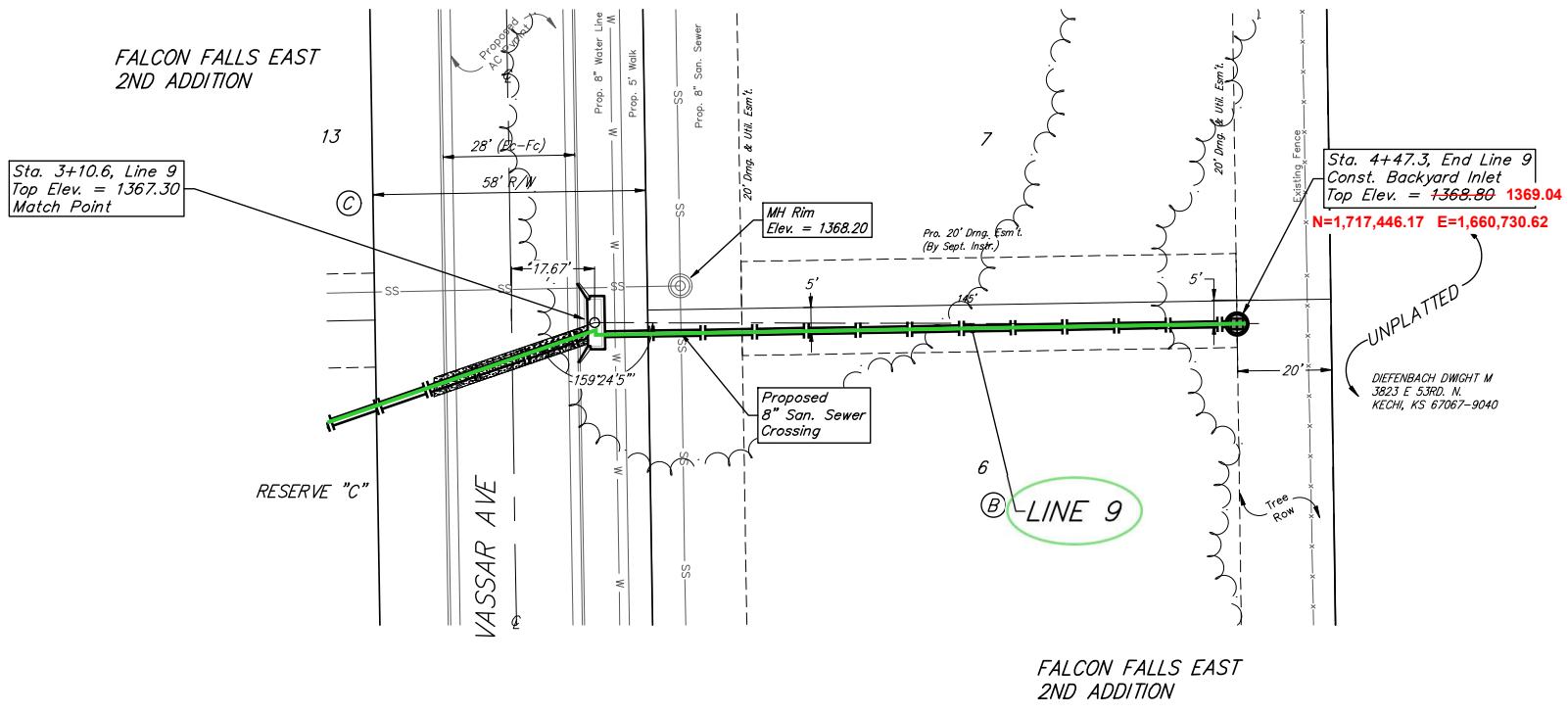
All trench and manhole excavation areas from Sta. 2+76.0 to Sta. 3+10.6, Line 9 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



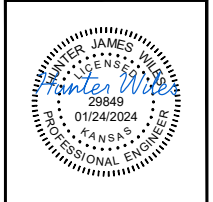
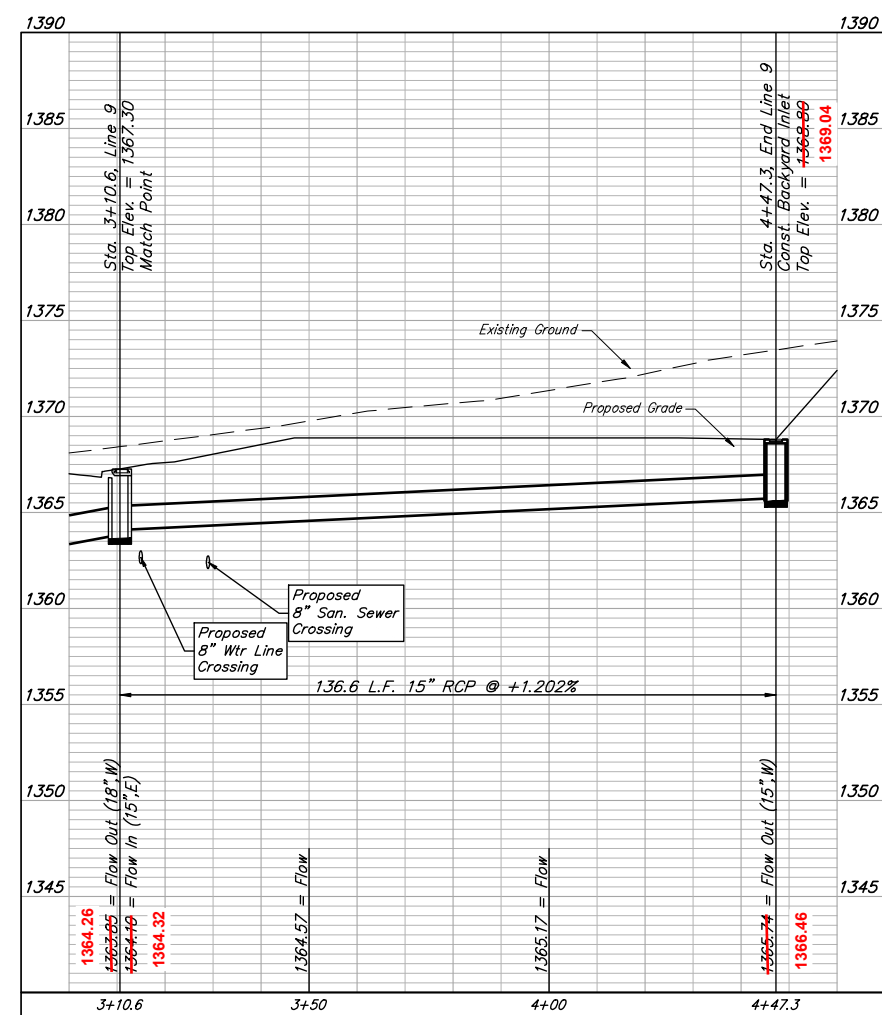

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FALCON FALLS EAST 2ND ADDITION
LINE 9
 STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024
 SHEET 10 OF 35

File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-EG28\SWS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCP, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St. 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."



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FALCON FALLS EAST 2ND ADDITION
LINE 9
 STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024
 SHEET 11 OF 35

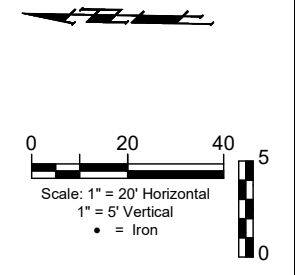
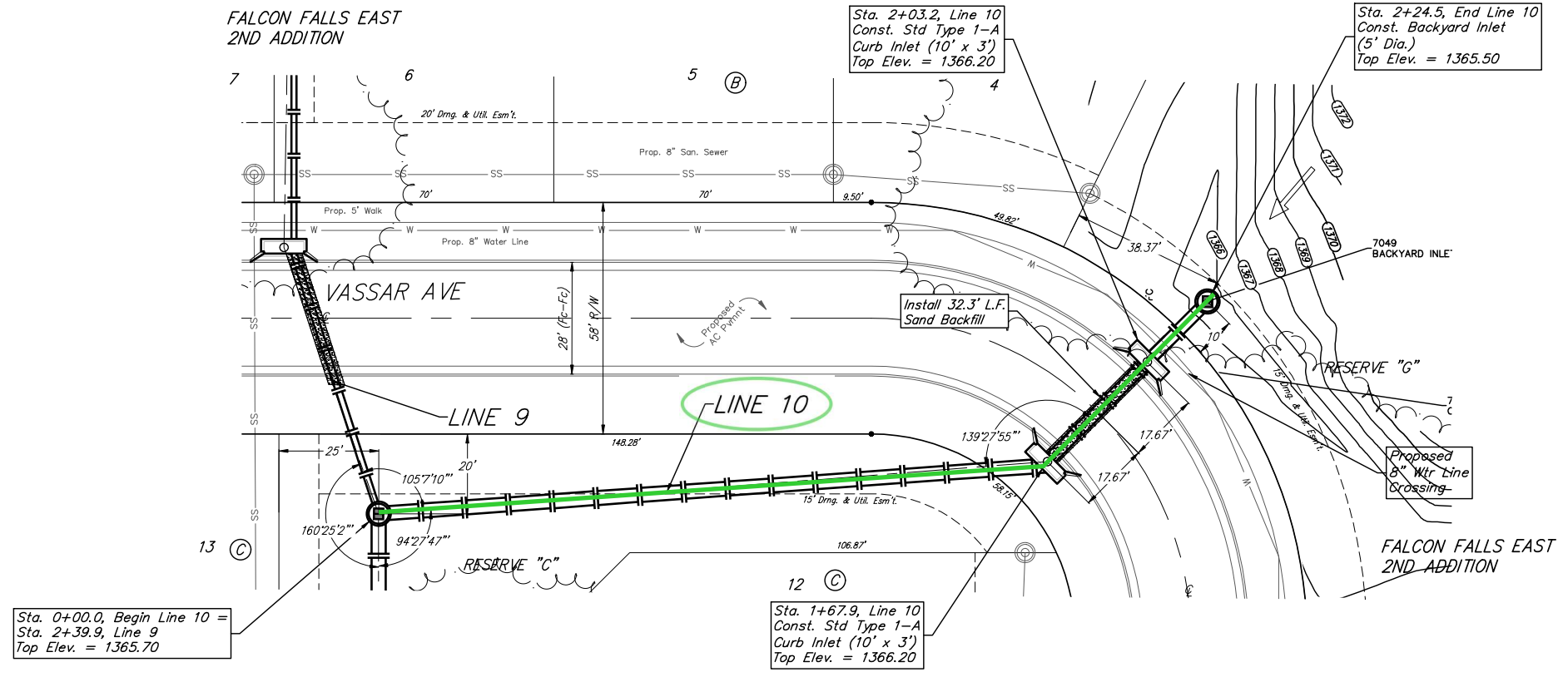
File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

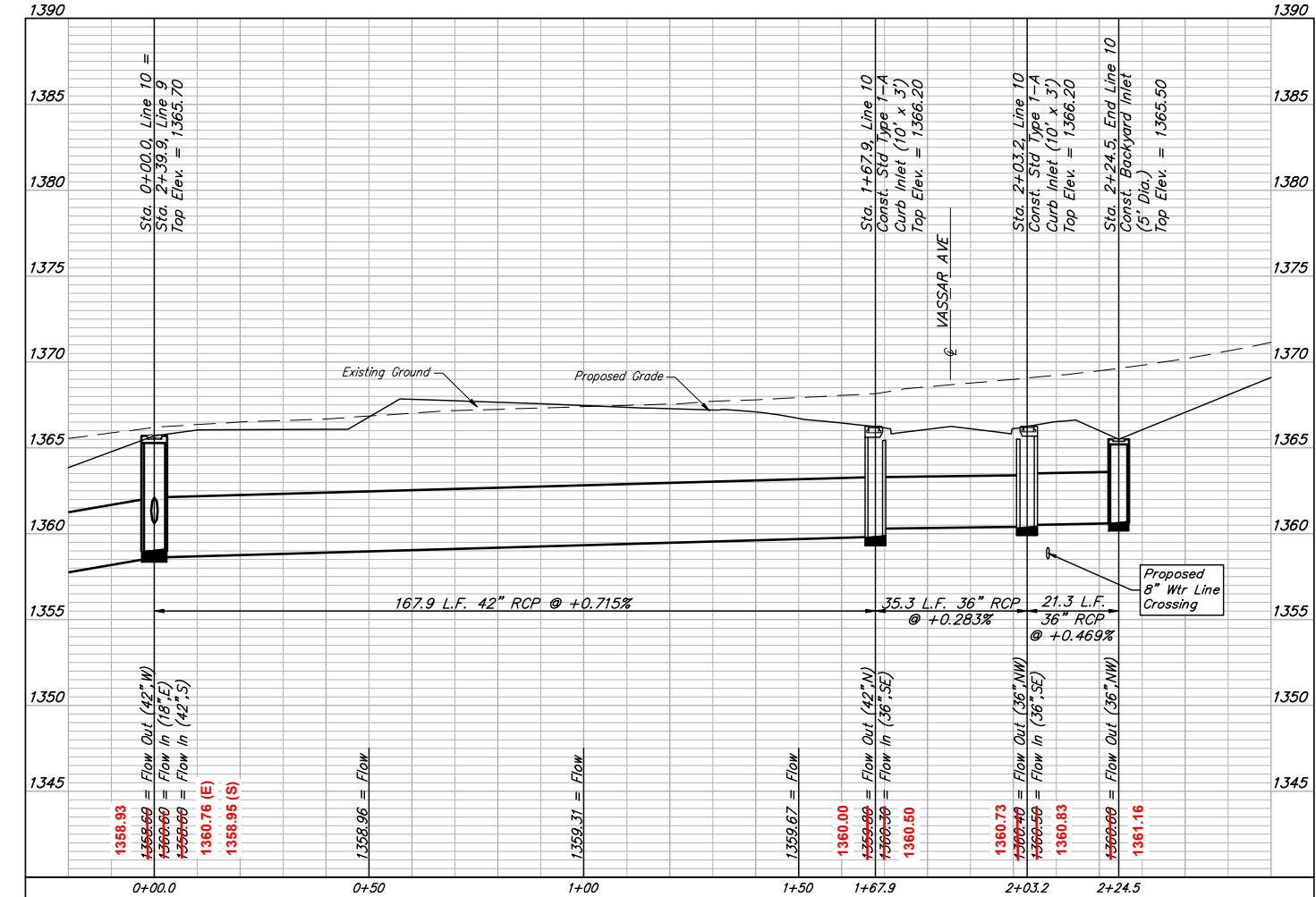
Square cut in top of curb, center of east curb return of center island, Blackhawk St. 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

FALCON FALLS EAST 2ND ADDITION



All trench and manhole excavation areas from Sta. 1+67.9 to Sta. 2+03.2, Line 10 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".





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FALCON FALLS EAST 2ND ADDITION

LINE 10

STORMWATER DRAIN IMPROVEMENTS

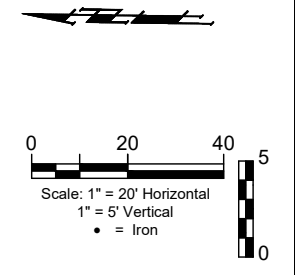
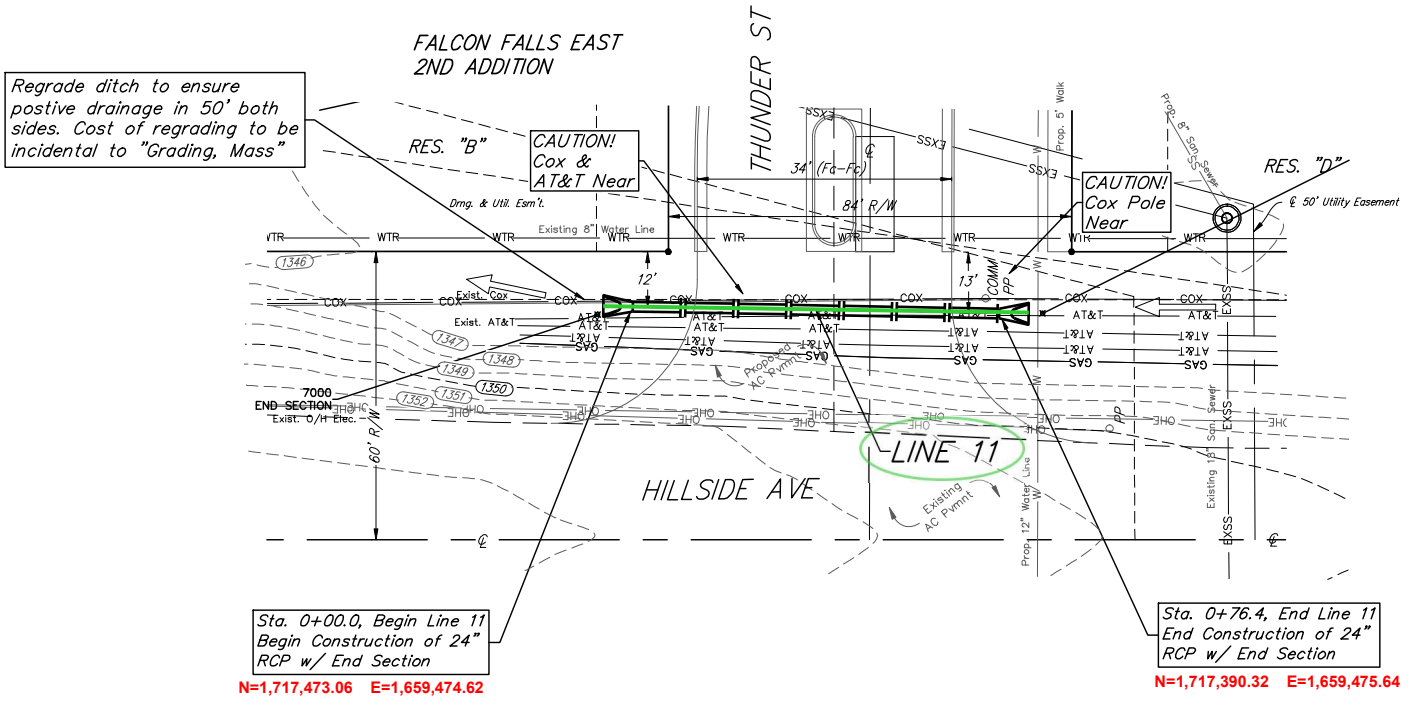
PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024

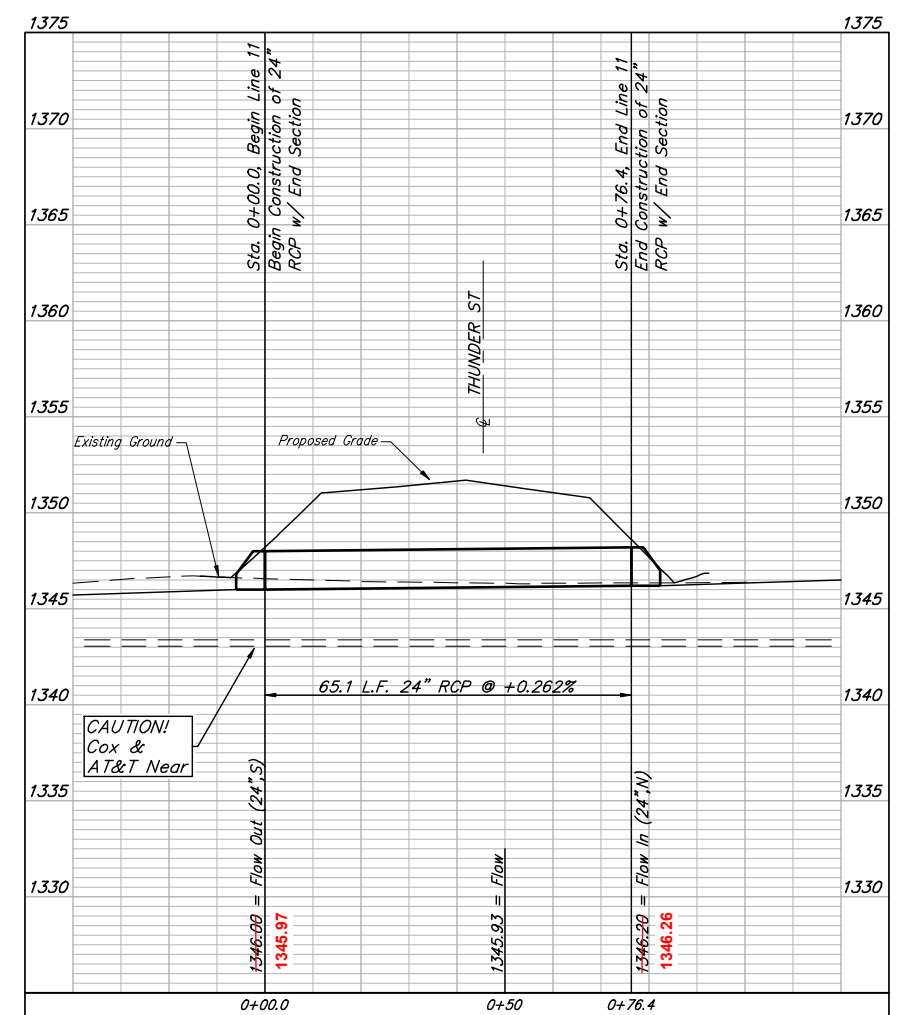
SHEET **12** OF **35**

File: E:\Projects\Falcon Falls East 2nd 23-02-P865(Engineering)\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88



Contractor to verify depth and location of Cox & AT&T prior to construction. Coordinate with Cox & AT&T if relocation or temporary removal of equipment/lines is necessary. Contact Matthew Bortz (620-272-2081) & Jason Edwards (316-268-2008) a minimum of three weeks prior to construction.





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FALCON FALLS EAST
2ND ADDITION

LINE 11

STORMWATER DRAIN
IMPROVEMENTS

PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV
 DATE: January 24, 2024

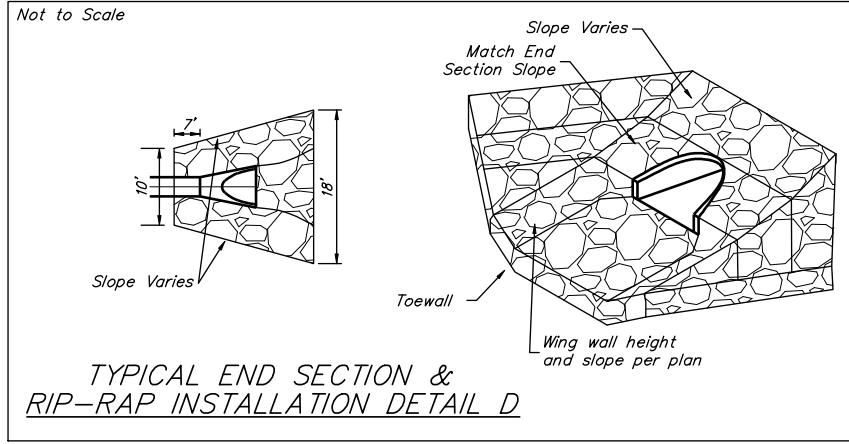
SHEET **13** OF **35**

File: E:\Projects\Falcon Falls East 2nd 23-02-P865\Engineering\Phase 1\SWD_23-10-E628\SWIS Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St., 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

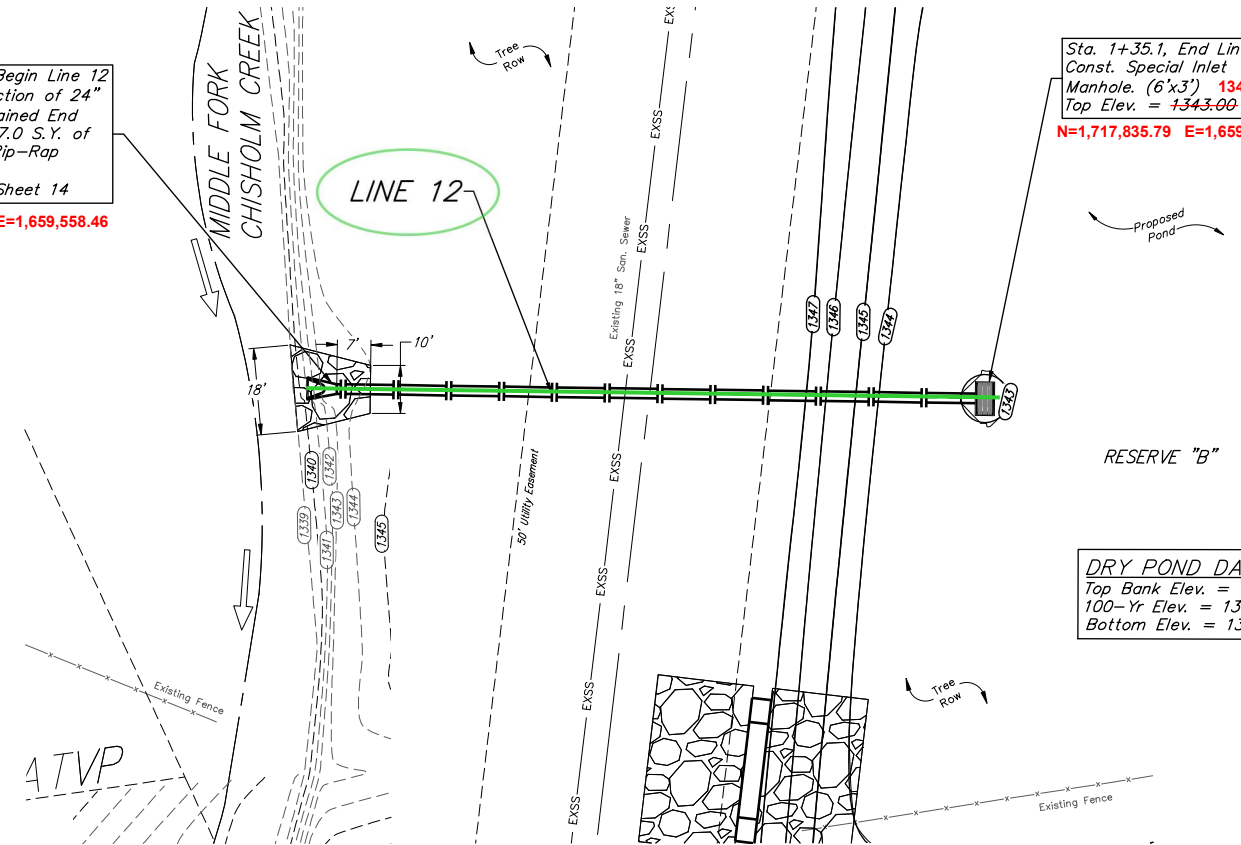


Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing."

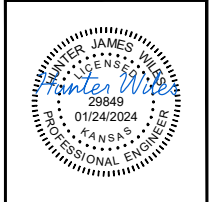
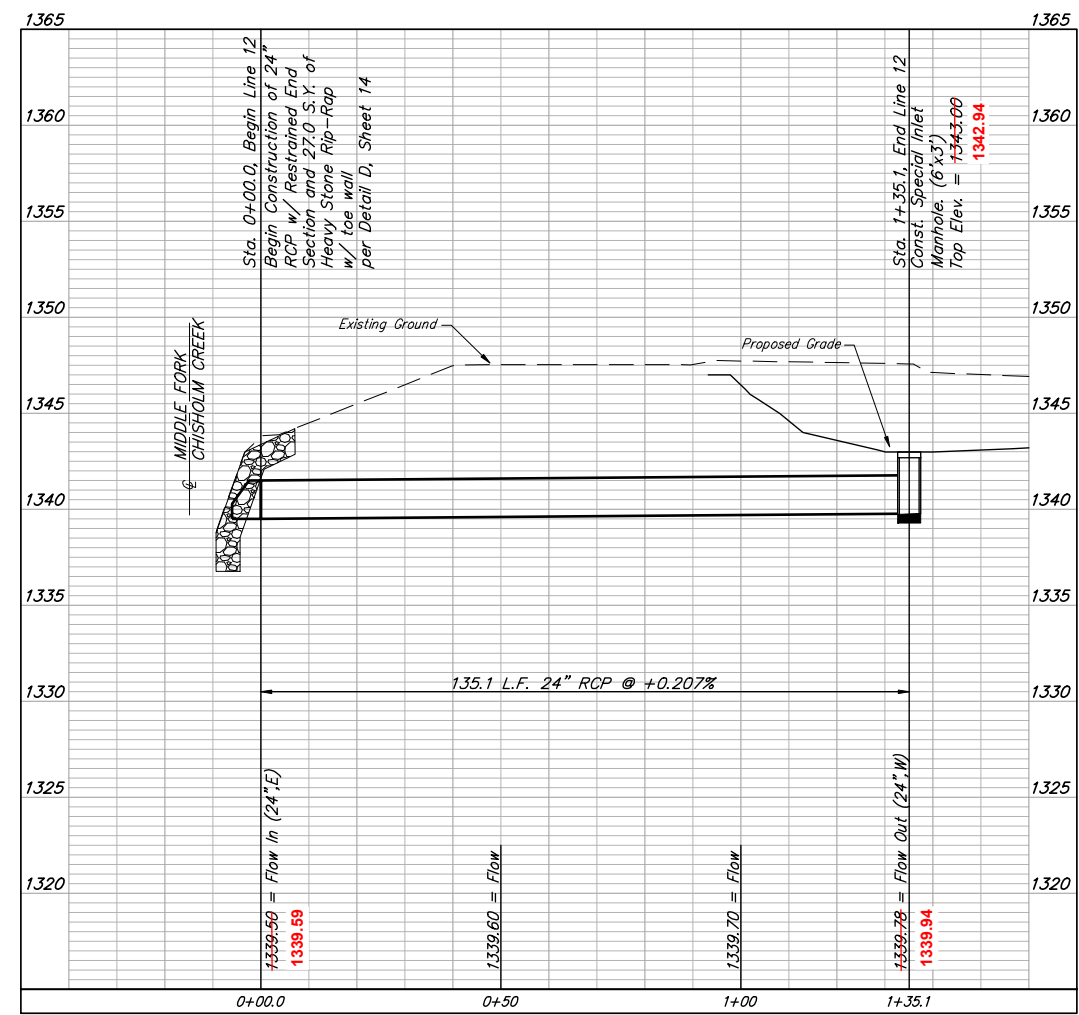
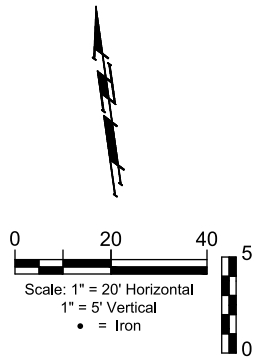
Line 12 location may be adjusted to avoid removing large trees.

Sta. 0+00.0, Begin Line 12
 Begin Construction of 24" RCP w/ Restrained End Section and 27.0 S.Y. of Heavy Stone Rip-Rap w/ toe wall per Detail D, Sheet 14
 N=1,717,854.87 E=1,659,558.46

Sta. 1+35.1, End Line 12
 Const. Special Inlet Manhole. (6'x3') 1342.94
 Top Elev. = 1343.00
 N=1,717,835.79 E=1,659,692.67



DRY POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0



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FALCON FALLS EAST 2ND ADDITION

LINE 12

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV

DATE: January 24, 2024

SHEET 14 OF 35

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±92' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

Install Straw Wattle at Top of Pond Slope.

Maintain 50'x12' Gravel Construction Entrance.

Install 30 L.F. Straw Wattle.

EROSION CONTROL MEASURE	INSTALL	MAINTAIN	REMOVE
CONSTRUCTION ENTRANCE (EA)	0	1	0
CURB INLET BARRIER (EA)	18	0	0
DROP INLET PROTECTION (EA)	6	0	0
DITCH CHECKS (EA)	19	0	0
BACK OF CURB PROTECTION (LF)	0	0	0
EROSION CONTROL BERM (LF)	667	0	0
STRAW WATTLE (LF)	970	0	0
SILT FENCE (LF)	4807	0	0
EROSION CONTROL MAT (SY)	7,935	0	0
MAINTAIN EROSION CONTROL BMP's (LS)	0	1	0

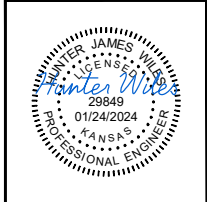
* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.

Contractor shall make sure all erosion control is in place before project is accepted. This plan represents the minimum standard. Any additional erosion control measures shall be installed by the Contractor as needed.



EROSION CONTROL PLAN LEGEND

- Proposed Grade
- Existing Grade
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE DITCH CHECKS
- STRAW WATTLE
- SILT FENCING
- EROSION CONTROL BERM



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FALCON FALLS EAST 2ND ADDITION

EROSION CONTROL

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
468-2023-085551

DESIGN: HJW DRAWN: HJW

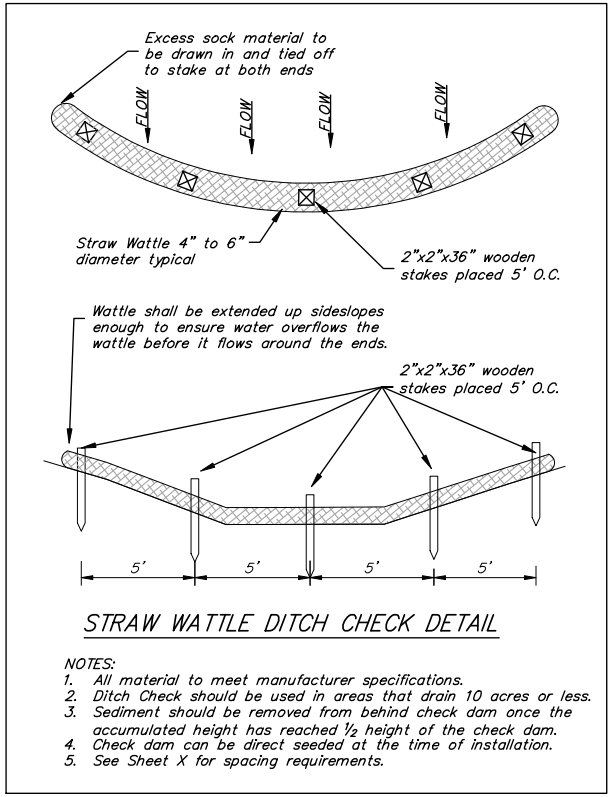
DATE: January 24, 2024

SHEET OF
15 35

BENCHMARKS:
 Square cut in the center of headwall, southerly RCBG, ±02' north of the northeast corner of Lot 30, Black G, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88



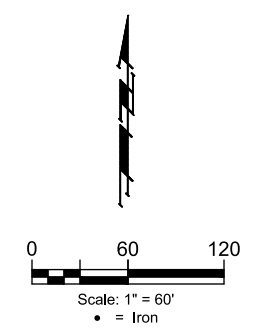
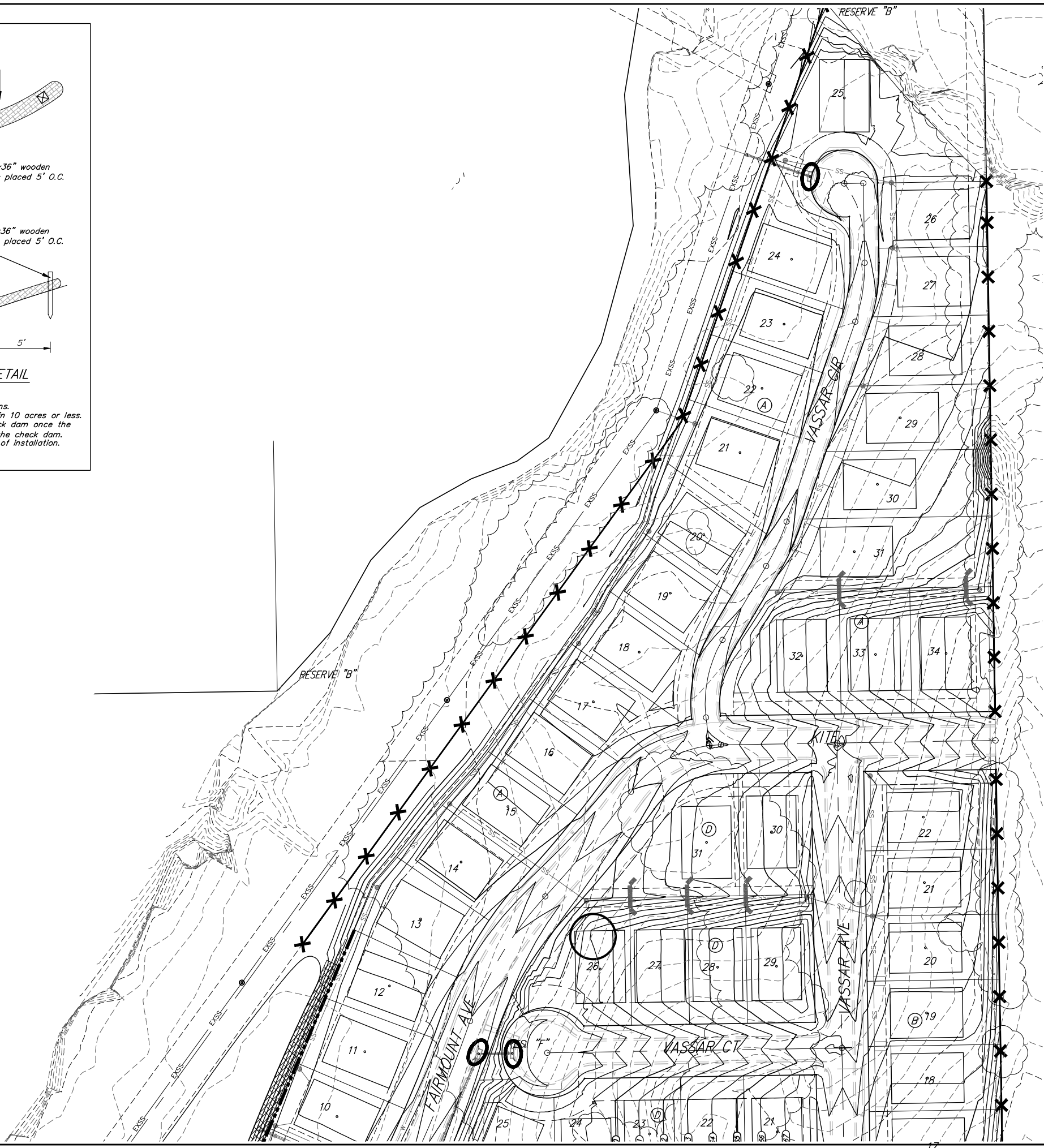
STRAW WATTLE DITCH CHECK DETAIL

- NOTES:**
1. All material to meet manufacturer specifications.
 2. Ditch Check should be used in areas that drain 10 acres or less.
 3. Sediment should be removed from behind check dam once the accumulated height has reached 1/2 height of the check dam.
 4. Check dam can be direct seeded at the time of installation.
 5. See Sheet X for spacing requirements.

EROSION CONTROL MEASURE	INSTALL	MAINTAIN	REMOVE
CONSTRUCTION ENTRANCE (EA)	0	1	0
CURB INLET BARRIER (EA)	18	0	0
DROP INLET PROTECTION (EA)	6	0	0
DITCH CHECKS (EA)	19	0	0
BACK OF CURB PROTECTION (LF)	0	0	0
EROSION CONTROL BERM (LF)	667	0	0
STRAW WATTLE (LF)	970	0	0
SILT FENCE (LF)	4,807	0	0
EROSION CONTROL MAT (SY)	7,935	0	0
MAINTAIN EROSION CONTROL BMP's (LS)	0	1	0

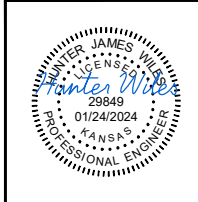
* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.

Contractor shall make sure all erosion control is in place before project is accepted. This plan represents the minimum standard. Any additional erosion control measures shall be installed by the Contractor as needed.



EROSION CONTROL PLAN LEGEND

- Proposed Grade
- Existing Grade
- DROP INLET PROTECTION
- CURB INLET PROTECTION
- STRAW BALE DITCH CHECKS
- STRAW WATTLE
- SILT FENCING
- EROSION CONTROL BERM



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FALCON FALLS EAST
 2ND ADDITION

EROSION CONTROL

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
 468-2023-085551

DESIGN: HJW DRAWN: HJW
 DATE: January 24, 2024

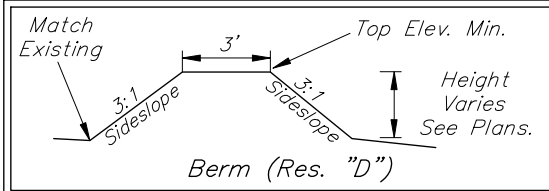
SHEET OF
16 35

File: E:\Projects\Falcon Falls East 2nd 23-02-P866\Engineering\Phase 1\SWD_23-10-E628\SWD Plans.dwg

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±02' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88
 Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88
 Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

LEGEND

EX. Falcon Falls East 2nd Plat	Lot Line	_____
	Lot #	13
PRO. Falcon Falls East 3rd Plat	Lot Line	_____
	Lot #	13



Grade from End Section to center of pond to allow positive flow.

Remove Existing Fence & 10" CMP. Cost to be incidental to "Site Clearing."

POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0

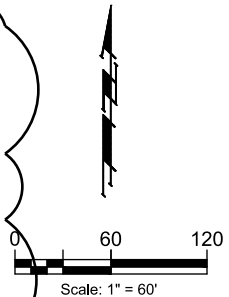
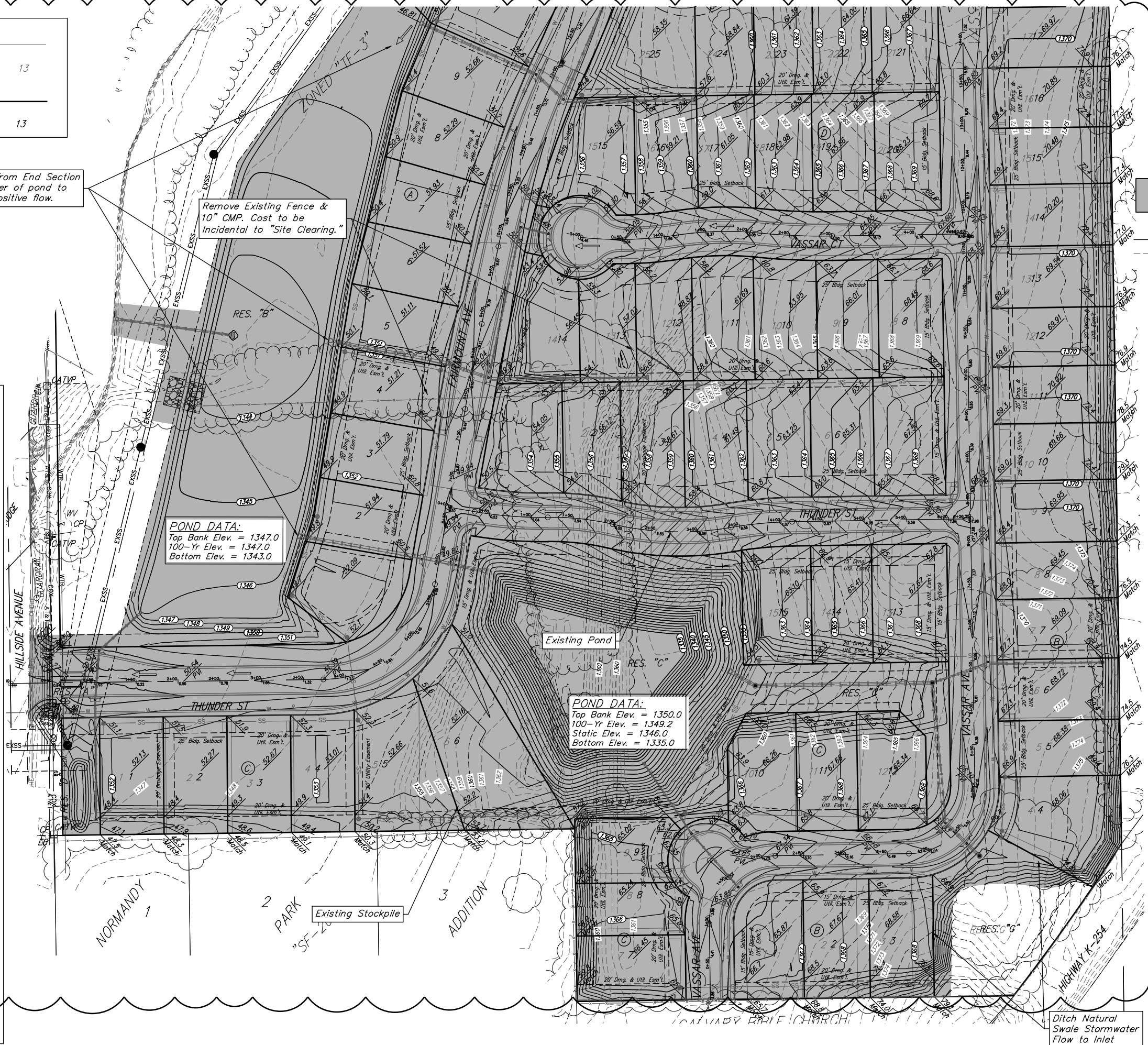
POND DATA:
 Top Bank Elev. = 1350.0
 100-Yr Elev. = 1349.2
 Static Elev. = 1346.0
 Bottom Elev. = 1335.0

EARTH WORK TOTALS (Unadjusted for shrink & swell) (for information only)

	Excavation	Fill
Reserve "B" Pond	8,300	-
Reserve "C" Pond	33,500	-
Mass Grading	52,300	91,000
Trench Spoils (All Projects)	6,000	-
Total Earthwork	100,100	91,000

Mass Grading General Notes:

- The intent of the project is to achieve an earthwork balance. Contractor shall contact the Engineer prior to finishing pond construction. Earthwork quantities are unadjusted and are for reference only. All cost associated with mass grading shall be incidental to lump sum bid item "Grading, Mass".
- Over-excavation of existing stockpiles will be required to properly compact existing material for street construction and for building pads. Over-excavation quantities are not included in earthwork totals shown on this sheet.
- Contractor to strip top 4"-6" of soil within building pads, Res. "B" & "C", and street R/W before mass grading and stockpile. Top soil stockpile to be redistributed over Res. "B" & "C" above water surface. Remaining topsoil may be used as fill outside of the building pad areas.
- Non-granular LVC material as defined in the geotechnical report shall be placed and compacted in the top 10" of each building pad. Per the geotechnical report, some on-site material does meet LVC requirements. Over-excavate Res. "B" pond as needed to satisfy LVC quantities. Flyash, cement kiln dust, and Portland cement additives shall not be used without developer approval. All costs for testing, placing, & compacting LVC material shall be incidental to lump sum bid item "Grading, Mass".
- Compaction of 95% Standard Proctor Density shall be obtained in all areas. Fill shall be placed with moisture content of optimum to +4% at the time of placement. All testing shall be incidental to Lump Sum bid item "Testing". The contractor shall provide Atterberg Limits testing at two locations within each building pad. See compaction table for compaction test requirements and intervals. City of Wichita will be responsible for compaction testing within Right-of-Way and pond liner. Coordinate with Inspector as needed.
- Existing trees shall be trimmed/removed ONLY with approval of the Developer. Trimming will be permitted only with chainsaws. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. All trimming or removal shall be included in bid item "Site Clearing". Prior to construction, an on-site meeting with the developer will be held to discuss grading limits and tree trimming/clearing along the tree rows in the project. The intent of the work is to clear underbrush and trees not included in the main tree row while side trimming the main tree row as necessary to complete grading work along the south and east line of the property.
- It shall be the Contractor's responsibility to protect any existing utilities during mass grading. Any damage done to these systems by Contractor or subcontractor shall be repaired at no additional cost to the project.
- All areas disturbed during construction shall be seeded, mulched, and fertilized as per Cover Sheet General Notes.
- Street elevations shown on mass grading plan are at top of proposed rock at centerline. Grade points around cul-de-sac bulbs are located 1' behind the back of proposed curb.
- The geotechnical report is available upon request from the engineer.
- Earthwork Quantities reflect the best available topography at time of design. The contractor shall satisfy themselves with the Earthwork Quantities associated with Bid Items "Excavation" & "Grading, Mass" prior to bidding. No additional payments or change orders for earthwork will be accepted.



Area to be graded
 Proposed Grade
 Existing Grade
 Compaction Testing Location

PRELIMINARY PLAN, NOT FOR CONSTRUCTION.
 This document is preliminary in nature and is not a final, signed and sealed document.

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 BaughmanCo.com

FALCON FALLS EAST 2ND ADDITION

MASS GRADING

STORMWATER DRAIN IMPROVEMENTS
 PROJECT NUMBER:
 468-2023-085551
 DESIGN: HJW DRAWN: HJW
 DATE: March 12, 2024
 SHEET OF
17 35

REVISION: Mass Grading, label mass grading contours for regular and lot 14 building area expanded Date: 3/12/2024 By: AIV

File: C:\Projects\HUNTER\CAD\Templates\SW-SWD PLANS_2023.dwt

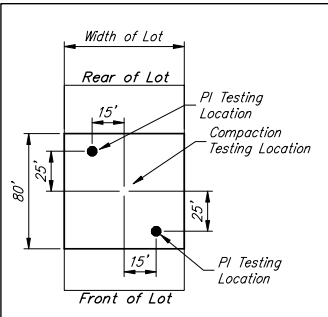
Ditch Natural Swale Stormwater Flow to Inlet

BENCHMARKS:
 Square cut in the center of headwall, southerly RCB, ±02' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.29 NAVD 88

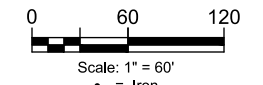
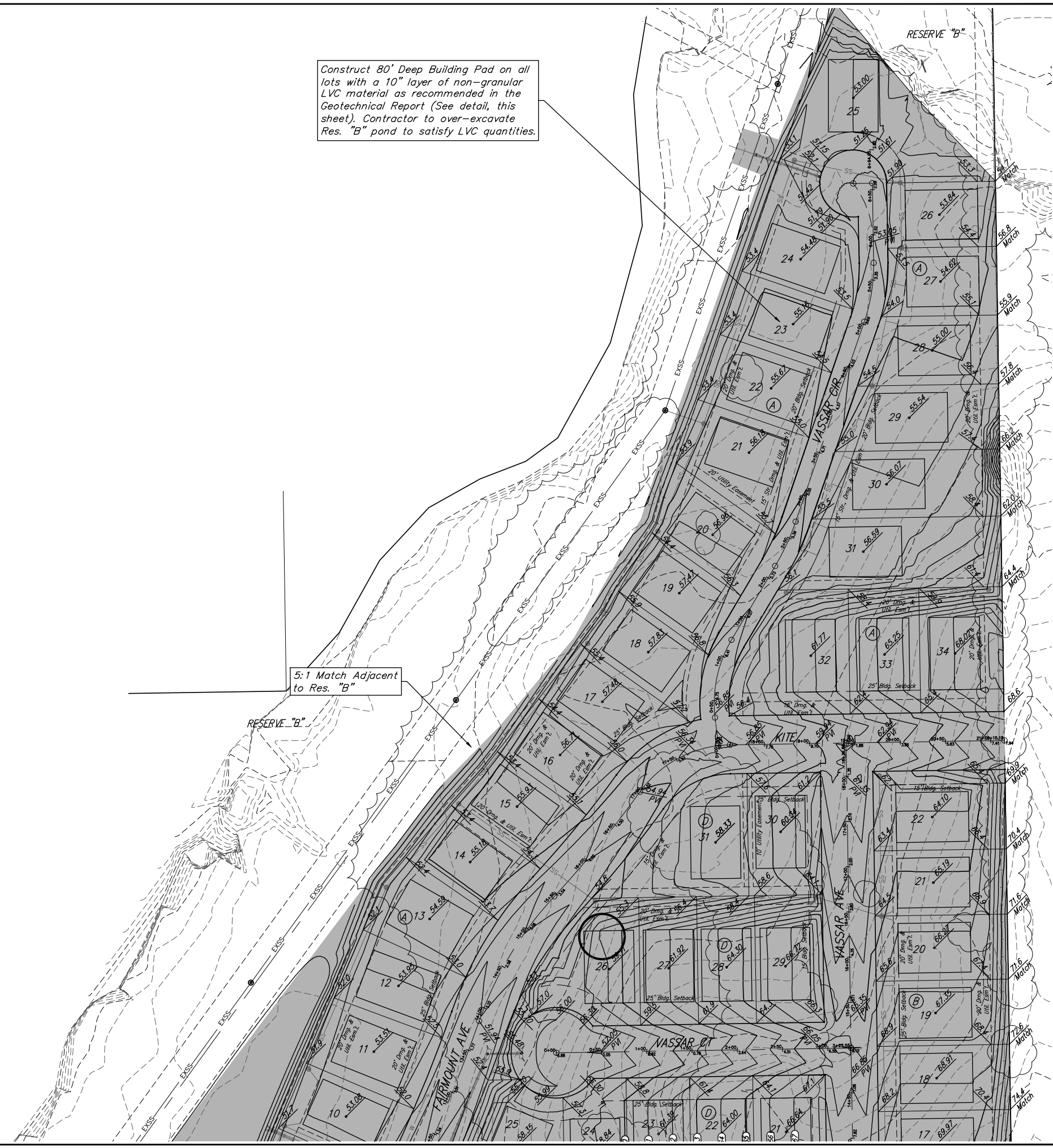
Construct 80' Deep Building Pad on all lots with a 10" layer of non-granular LVC material as recommended in the Geotechnical Report (See detail, this sheet). Contractor to over-excavate Res. "B" pond to satisfy LVC quantities.



BUILDING PAD DETAIL

Note: Construct 10" layer of non-granular LVC material. Contractor to use best available on-site material. See Compaction Testing Table.

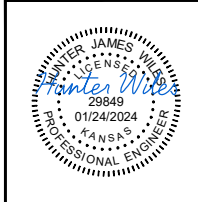
The Contractor shall be responsible to collect soil samples from two locations within each lot. The soil samples are to come from the diagonal corners of the building pads as shown on this sheet. The samples shall be collected at a depth of 18" below the pad elevation listed on this sheet. Each soil sample shall be approximately 8 oz. to 12 oz. in weight and sealed in a zip-lock plastic bag. The soil samples shall be used for Atterberg Limits testing (ASTM D4318, "Liquid Limit, Plastic Limit, and Plasticity Index of Soils") to determine the PI (Plasticity Index) of the sample. The Contractor shall deliver the soil samples to a licensed soils testing laboratory for Atterberg Limits testing. The test results shall be delivered to the Project Engineer as the tests are completed. The Contractor shall be responsible for all costs associated with collecting soil, refilling the test holes, labeling the soil samples, transporting the soil, costs of testing, and delivering the test results. All costs associated with the Atterberg Limits testing are to be included in the bid item, "Testing". There are 87 lots (1 building pad per lot) to be tested at two locations for a total of 174 tests.



- Area to be graded
- Proposed Grade
- Existing Grade
- Compaction Testing Location

EARTH WORK TOTALS (Unadjusted for shrink & swell) (for information only)

	Excavation	Fill
Reserve "B" Pond	8,300	-
Reserve "C" Pond	33,500	-
Mass Grading	52,300	91,000
Trench Spoils (All Projects)	6,000	-
Total Earthwork	100,100	91,000



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FALCON FALLS EAST
 2ND ADDITION

MASS GRADING

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
 468-2023-085551

DESIGN: HJW DRAWN: HJW
 DATE: January 24, 2024

SHEET OF
18 35

BENCHMARKS:
 Square cut in the center of headwall, southerly RCBC, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St., 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.20 NAVD 88

Lot	Location		Exc. Elev.	Fill Elev.	Compaction % and Test Elevation																
	Northing	Easting			1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362
22B	1717544.61	1659825.38	1347.09	1352.09	X	X						X	X	X	X	X	X	X	X	X	X
21B	1717620.59	1659851.13	1347.04	1351.94	X	X					X	X	X	X	X	X	X	X	X	X	X
20B	1717694.01	1659863.81	1347.40	1351.79	X	X					X	X	X	X	X	X	X	X	X	X	X
19B	1717769.01	1659876.76	1347.94	1351.21	X	X	X				X	X	X	X	X	X	X	X	X	X	X
18B	1717848.98	1659891.95	1347.11	1351.11	X	X					X	X	X	X	X	X	X	X	X	X	X
17B	1717920.78	1659907.43	1347.02	1351.52	X	X					X	X	X	X	X	X	X	X	X	X	X
16B	1717995.18	1659924.01	1347.19	1351.93	X	X					X	X	X	X	X	X	X	X	X	X	X
15B	1718068.99	1659945.02	1347.11	1352.29	X	X					X	X	X	X	X	X	X	X	X	X	X
14B	1718142.16	1659971.41	1347.42	1352.66	X	X					X	X	X	X	X	X	X	X	X	X	X
13B	1718220.70	1660005.78	1347.68	1353.08	X	X					X	X	X	X	X	X	X	X	X	X	X
12B	1718292.34	1660036.54	1347.80	1353.51	X	X					X	X	X	X	X	X	X	X	X	X	X
11B	1718364.98	1660063.67	1347.77	1353.95	X	X					X	X	X	X	X	X	X	X	X	X	X
10B	1718438.99	1660098.08	1348.18	1354.59	X	X	X						X	X	X	X	X	X	X	X	X
9B	1718501.84	1660142.89	1348.81	1355.18	X	X	X						X	X	X	X	X	X	X	X	X
8B	1718563.15	1660194.66	1350.29	1355.93	X	X	X	X					X	X	X	X	X	X	X	X	X
7B	1718620.16	1660242.16	1352.18	1356.71	X	X	X	X	X					X	X	X	X	X	X	X	X
5B	1718678.96	1660288.88	1354.72	1357.48	X	X	X	X	X	X				X	X	X	X	X	X	X	X
4B	1718733.70	1660339.56	1355.39	1357.83	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
2A	1718798.90	1660373.87	1354.89	1357.47	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
3A	1718863.41	1660410.87	1352.56	1356.96	X	X	X	X	X	X				X	X	X	X	X	X	X	X
4A	1718954.16	1660450.91	1350.87	1356.18	X	X	X	X	X					X	X	X	X	X	X	X	X
5A	1719025.09	1660475.27	1350.78	1355.67	X	X	X	X	X					X	X	X	X	X	X	X	X
6A	1719096.03	1660499.62	1350.26	1355.16	X	X	X	X	X					X	X	X	X	X	X	X	X
7A	1719167.74	1660507.88	1349.80	1354.48	X	X	X	X						X	X	X	X	X	X	X	X
8A	1719345.91	1660566.15	1350.79	1353.00	X	X	X	X	X					X	X	X	X	X	X	X	X
10A	1719143.14	1660662.41	1353.33	1354.62	X	X	X	X	X	X				X	X	X	X	X	X	X	X
11A	1719066.98	1660653.27	1354.17	1355.00	X	X	X	X	X	X				X	X	X	X	X	X	X	X
12A	1718992.56	1660627.94	1354.71	1355.54	X	X	X	X	X	X				X	X	X	X	X	X	X	X
13A	1718919.15	1660602.73	1355.24	1356.07	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
2D	1718844.72	1660577.18	1355.76	1356.59	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
1D	1718729.77	1660519.15	1358.21	1361.77	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
21D	1717314.87	1659572.79	1346.34	1352.13	X									X	X	X	X	X	X	X	X
9D	1717315.94	1659656.18	1346.96	1352.27	X	X								X	X	X	X	X	X	X	X
10D	1717316.89	1659730.18	1347.59	1352.67	X	X								X	X	X	X	X	X	X	X
11D	1717317.83	1659803.17	1348.32	1353.01	X	X	X							X	X	X	X	X	X	X	X
12D	1717325.64	1659879.12	1349.73	1352.66	X	X	X	X						X	X	X	X	X	X	X	X
13D	1717365.49	1659953.82	1351.33	1352.16	X	X	X	X	X	X				X	X	X	X	X	X	X	X
14D	1717715.55	1660052.17	1350.16	1354.05	X	X	X	X	X					X	X	X	X	X	X	X	X
19D	1717711.93	1660129.86	1355.29	1356.12	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X
18D	1717696.35	1660207.13	1353.86	1358.61	X	X	X	X	X	X	X						X	X	X	X	X
17D	1717700.46	1660280.07	1357.02	1361.49	X	X	X	X	X	X	X										X
16D	1717704.38	1660350.02	1360.41	1363.25	X	X	X	X	X	X	X	X					X	X			
3D	1717865.87	1660291.55	1360.16	1361.69	X	X	X	X	X	X	X	X					X	X	X		X
22D	1717860.61	1660225.62	1357.85	1358.87	X	X	X	X	X	X	X	X					X	X	X	X	X
23D	1717844.16	1660159.88	1354.23	1357.00	X	X	X	X	X	X	X	X					X	X	X	X	X
24D	1717836.38	1660091.05	1350.72	1356.45	X	X	X	X	X					X	X	X	X	X	X	X	X
30D	1718066.33	1660140.37	1352.55	1356.59	X	X	X	X	X	X				X	X	X	X	X	X	X	X
31D	1718048.08	1660209.47	1355.28	1359.21	X	X	X	X	X	X	X	X					X	X	X	X	X
6B	1718050.90	1660275.43	1357.91	1361.05	X	X	X	X	X	X	X	X					X	X			X
14A	1718050.17	1660341.49	1359.94	1362.98	X	X	X	X	X	X	X	X	X				X	X			
24A	1718201.46	1660350.99	1360.56	1361.39	X	X	X	X	X	X	X	X	X				X	X	X		X
2B	1718187.30	1660194.81	1355.46	1358.35	X	X	X	X	X	X	X	X	X				X	X	X	X	X
3B	1718535.21	1660485.73	1357.96	1360.34	X	X	X	X	X	X	X	X	X						X	X	X
25D	1718523.57	1660413.91	1356.20	1358.33	X	X	X	X	X	X	X	X	X				X	X	X	X	X
33A	1718731.09	1660600.58	1360.92	1365.25	X	X	X	X	X	X	X	X	X				X	X	X	X	X
26D	1718383.60	1660296.69	1357.34	1359.11	X	X	X	X	X	X	X	X	X					X	X	X	X
27D	1718384.67	1660362.19	1360.57	1361.92	X	X	X	X	X	X	X	X	X				X	X			X
28D	1718385.71	1660426.18	1360.83	1364.30	X	X	X	X	X	X	X	X	X				X	X			
29D	1718386.77	1660491.17	1360.91	1366.72	X	X	X	X	X	X	X	X	X				X	X	X	X	X
15C	1717517.12	1660352.19	1359.77	1363.10	X	X	X	X	X	X	X	X	X				X	X			
10C	1717315.23	1660325.74	1359.95	1366.26	X	X	X	X	X	X	X	X	X				X	X			
9C	1717226.27	1660152.87	1360.30	1365.02	X	X	X	X	X	X	X	X	X				X	X			
8C	1717160.28	1660154.08	1360.34	1365.24	X	X	X	X	X	X	X	X	X				X	X			
7C	1717091.50	1660171.91	1360.41	1366.45	X	X	X	X	X	X	X	X	X				X	X			



BAUGHMAN COMPANY
 315 Ellis St.
 Wichita, KS 67211
 316-262-7271
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FALCON FALLS EAST
 2ND ADDITION

COMPACTION TABLE

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
 468-2023-085551

DESIGN: HJW DRAWN: HJW

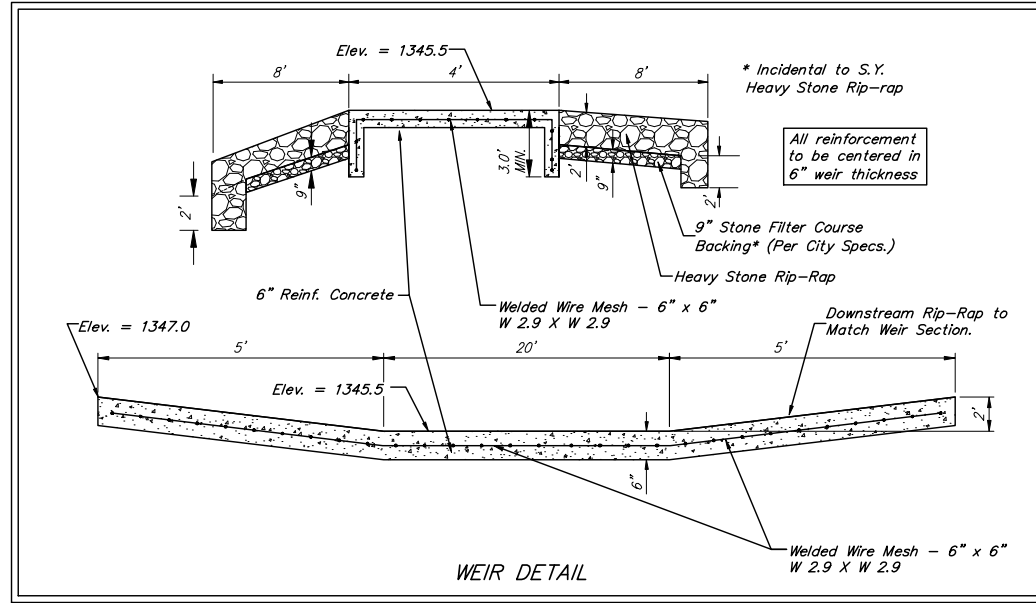
DATE: January 24, 2024

SHEET **19** OF **35**

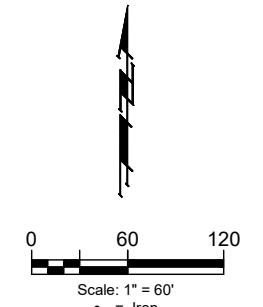
BENCHMARKS:
 Square cut in the center of headwall, southerly RCBC, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd Addition, Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St, Elev.=1354.01 NAVD 88

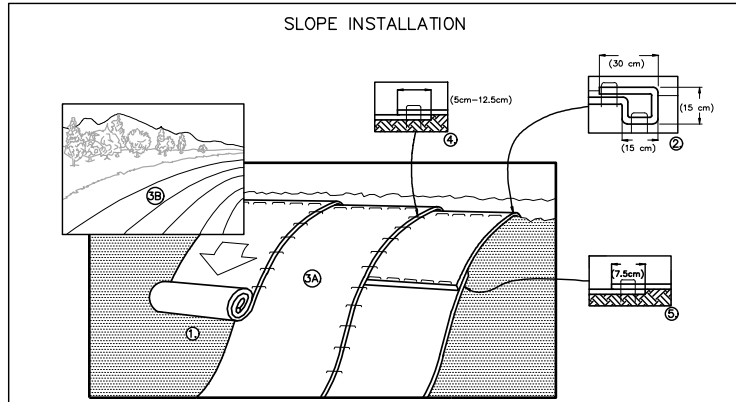
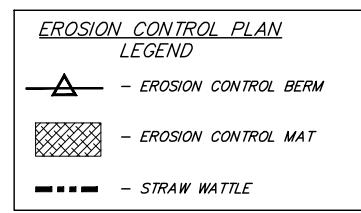
Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East, Elev.=1355.28 NAVD 88



Install 3,284 S.Y. North American Green Bionet S150BN Biodegradable Erosion Control Mat, or approved equal around pond as indicated (See Detail, This Sheet) Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity is for information only and does not include excess material necessary for overlap and anchoring.



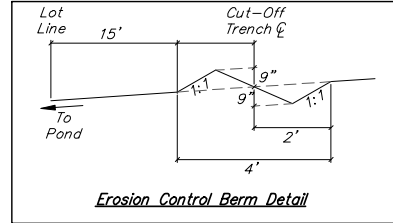
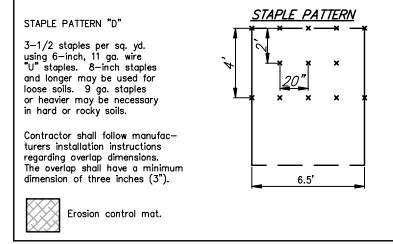
Proposed Grade
 Existing Grade



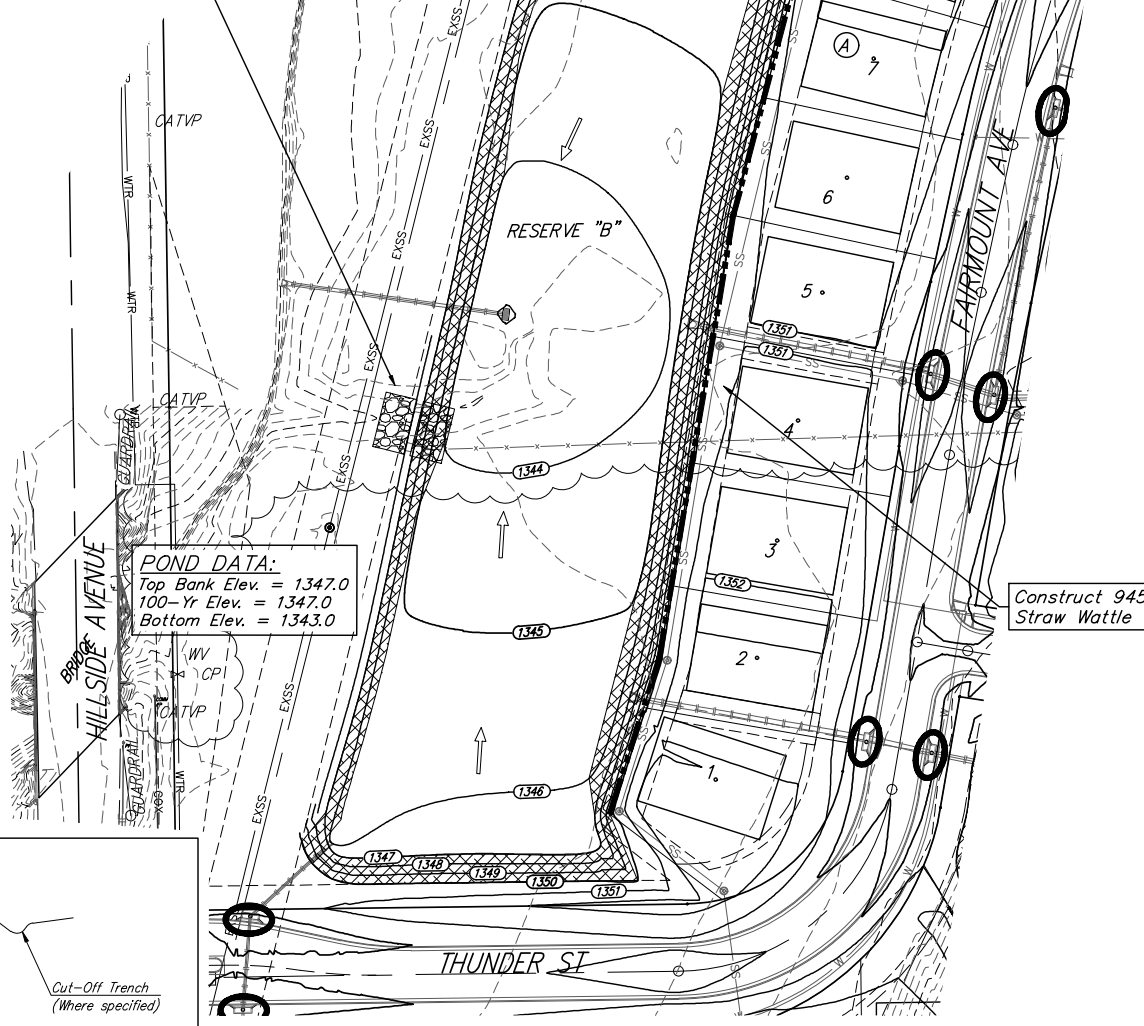
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 8" (20cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.
- NOTE:
 *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- SEEDING DIRECTLY BENEATH THE EROSION CONTROL MAT SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL MAT.

EARTH WORK TOTALS (Unadjusted for shrink & swell) (for information only)

	Excavation	Fill
Reserve "B" Pond	8,300	-
Reserve "C" Pond	33,500	-
Mass Grading	52,300	91,000
Trench Spoils (All Projects)	6,000	-
Total Earthwork	100,100	91,000



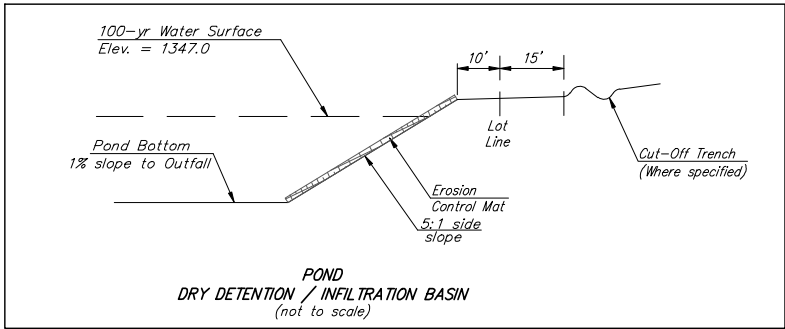
Construct 4'x30' Reinforced Conc. Weir w/ 75 S.Y. Heavy Stone Rip-rap (each side) as indicated.



POND DATA:
 Top Bank Elev. = 1347.0
 100-Yr Elev. = 1347.0
 Bottom Elev. = 1343.0

Construct 945 L.F. Straw Wattle

- Pond General Notes:**
- All areas disturbed during construction shall be seeded, mulched, and fertilized as per Cover Sheet General Notes.
 - Install Erosion Control Mat around Pond as indicated (cost to be included in "Erosion Control Mat")
 - Contractor to strip top 4-6" of soil within building pads, Res. "B", Res. "C", and street R/W before mass grading. Topsoil stockpile to be redistributed over Res. "B" & Res. "C" above water surface. Remaining topsoil may be used as fill over reserves containing berms/medians and outside of the building pad areas (incidental to C.Y. "Excavation").
 - Compaction of 95% shall be obtained in all areas.
 - Earthwork Quantities reflect the best available topography at time of design. The Contractor shall satisfy themselves with the Earthwork Quantities associated with Bid Items "Excavation" & "Grading, Mass" prior to bidding. No additional payments or change orders for earthwork will be accepted.



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315 Ellis St.
 Wichita, KS 67211
 316-262-7271
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FALCON FALLS EAST 2ND ADDITION

POND PLAN

STORMWATER DRAIN IMPROVEMENTS

PROJECT NUMBER:
 468-2023-085551

DESIGN: HJW DRAWN: HJW

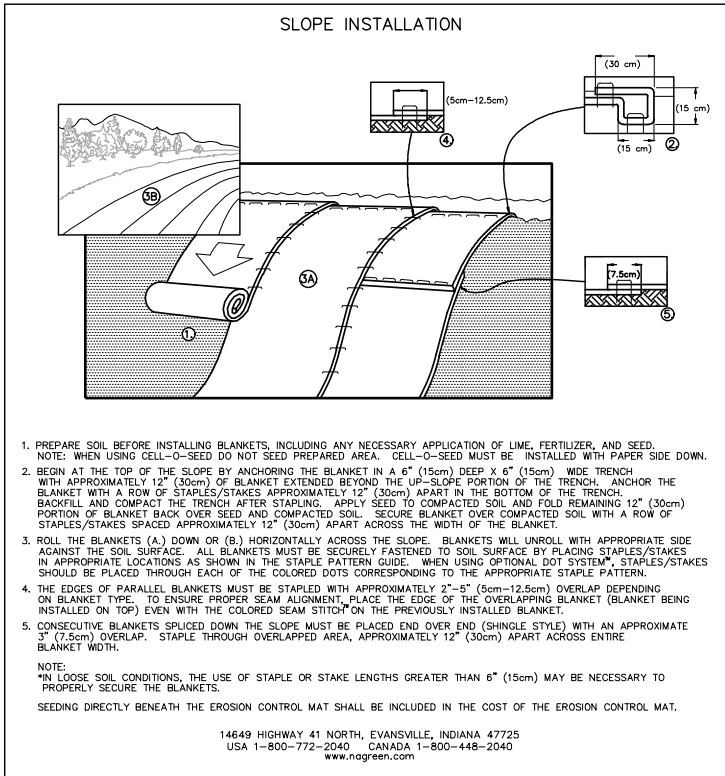
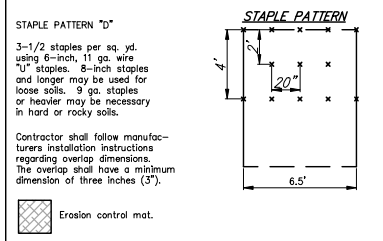
DATE: January 24, 2024

SHEET OF
20 35

BENCHMARKS:
 Square cut in the center of headwall, southerly RCBC, at 22' of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition, Elev.=1344.07 NAVD 88

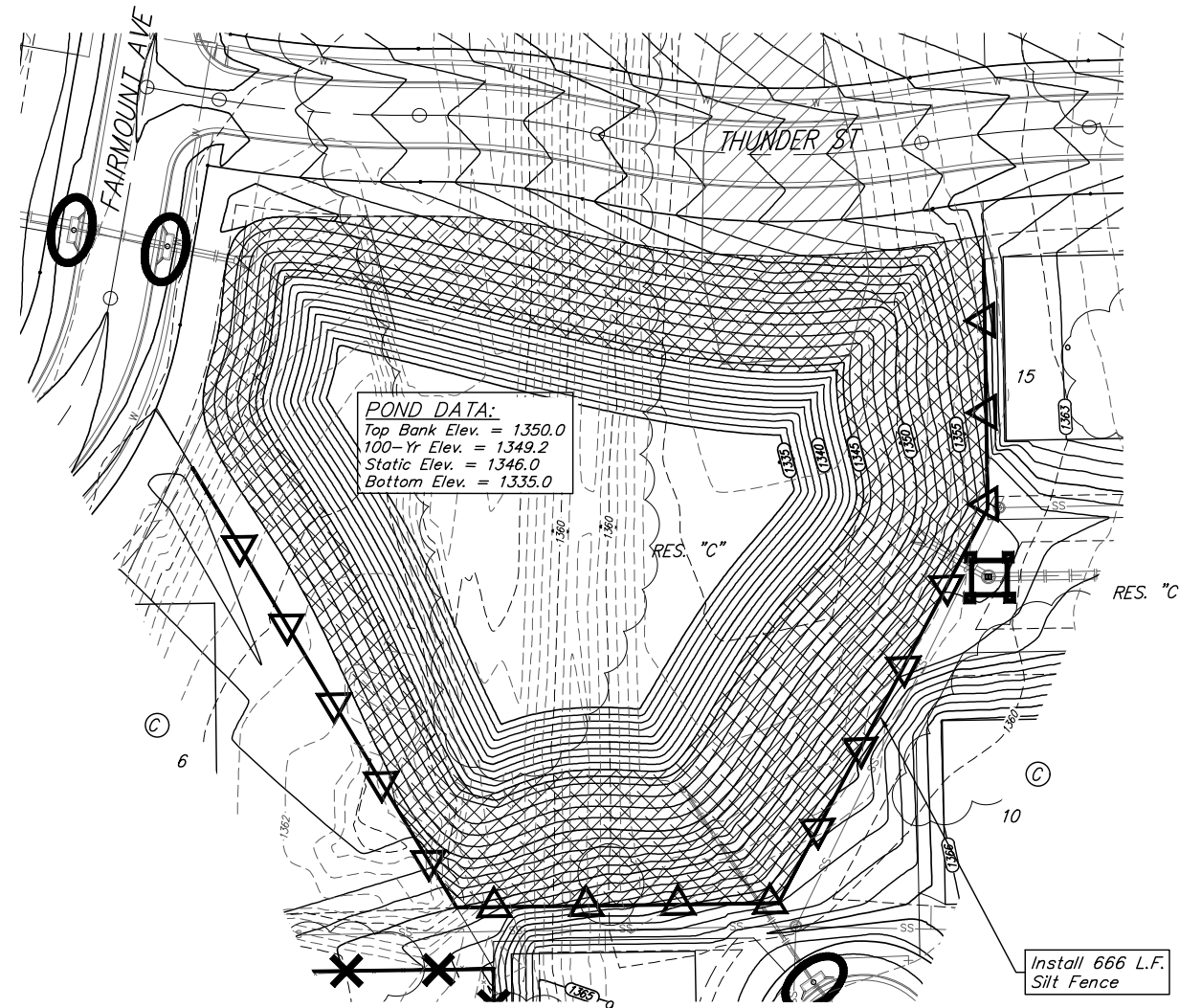
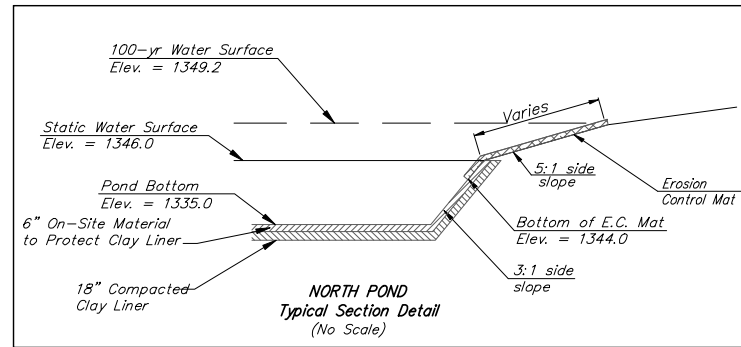
Square cut in top of curb, center of east curb return of center island, Blackhawk St, 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88



Pond General Notes:

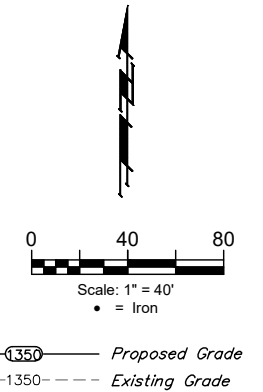
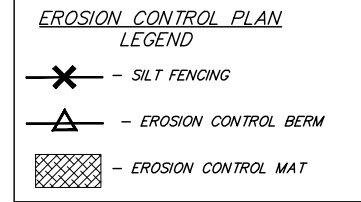
- Pond bottom and side slopes below static pool elevation shall be over-excavated 24" and an 18" clay liner shall be compacted to 95% std. density. See the Geotechnical Report for clay liner availability and requirements. The compaction shall be verified during construction and testing shall be arranged by the contractor at the request of the inspector. 6" of on-site material shall be distributed on top of the clay line below the static pool elevation. All costs for liner material, manipulation, compaction, testing, etc to be included in lump sum bid item "Pond Sealing". All costs associated with Pond Construction including stripping top soil, excavation, shaping, compaction, hauling excess material, etc. shall be included in the bid item "Excavation".
- All areas disturbed during construction shall be seeded, mulched, and fertilized as per Cover Sheet General Notes.
- Install Erosion Control Mat around Pond as indicated (cost to be included in "Erosion Control Mat")
- Contractor to strip top 4-6" of soil within building pads, Res. "B", Res. "C", and street R/W before mass grading. Topsoil stockpile to be redistributed over Res. "B" & Res. "C" above water surface. Remaining topsoil may be used as fill over reserves containing berms/medians and outside of the building pad areas (incidental to C.Y. "Excavation").
- Compaction of 95% shall be obtained in all areas.
- Earthwork Quantities reflect the best available topography at time of design. The Contractor shall satisfy themselves with the Earthwork Quantities associated with Bid Items "Excavation" & "Mass Grading" prior to bidding. No additional payments or change orders for earthwork will be accepted.



**EARTH WORK TOTALS (Unadjusted for shrink & swell)
 (for information only)**

	Excavation	Fill
Reserve "B" Pond	8,300	-
Reserve "C" Pond	33,500	-
Mass Grading	52,300	91,000
Trench Spoils (All Projects)	6,000	-
Total Earthwork	100,100	91,000

Install 4,651 S.Y. North American Green Bionet S150BN Biodegradable Erosion Control Mat, or approved equal around pond as indicated (See Detail, This Sheet) Erosion control mat shall be installed and anchored per manufacturer's specifications. Note: This quantity is for material only and does not include excess material necessary for overlap and anchoring.



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FALCON FALLS EAST
 2ND ADDITION

**POND
 PLAN**

STORMWATER DRAIN
 IMPROVEMENTS

PROJECT NUMBER:
 468-2023-085551

DESIGN: HJW DRAWN: HJW

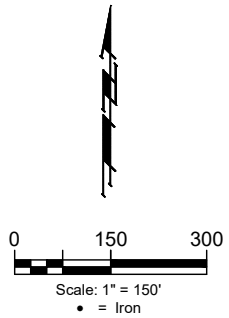
DATE: January 24, 2024

SHEET OF
21 35

BENCHMARKS:
 Square cut in the center of headwall, southerly RCBC, ±82' north of the northeast corner of Lot 30, Block C, Falcon Falls 3rd/ Addition. Elev.=1344.07 NAVD 88

Square cut in top of curb, center of east curb return of center island, Blackhawk St. 53' west of centerline intersection of Hillside Ave. and Blackhawk St. Elev.=1354.01 NAVD 88

Square cut with cross, in hub guard, east side of Hillside Avenue, 110 feet south of and 27 west of the southwest corner of the northwest quarter, Section 23, Township 26 South, Range 1 East. Elev.=1355.28 NAVD 88

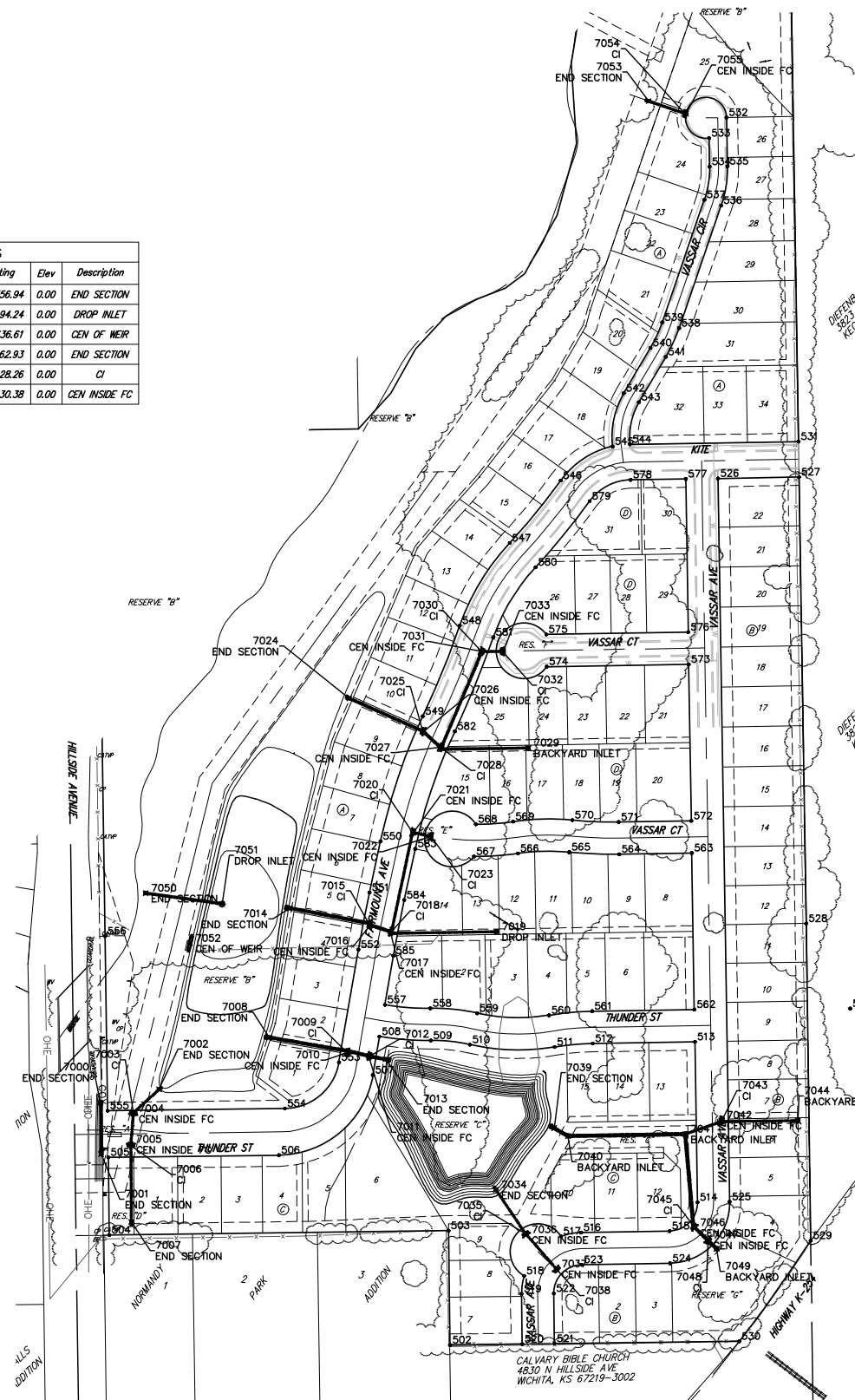


Point #	Northing	Easting	Description
500	0.00	0.00	IRON
501	1,717,646.91	1,660,825.93	IRON
502	1,717,040.68	1,660,105.11	IRON
503	1,717,246.66	1,660,102.25	IRON
504	1,717,238.82	1,659,491.30	IRON
505	1,717,378.80	1,659,488.36	IRON
506	1,717,382.75	1,659,796.66	IRON
507	1,717,527.12	1,659,965.89	IRON
508	1,717,596.45	1,659,977.87	IRON
509	1,717,589.27	1,660,070.44	IRON
510	1,717,581.81	1,660,140.94	IRON
511	1,717,577.59	1,660,283.42	IRON
512	1,717,584.06	1,660,362.08	IRON
513	1,717,587.05	1,660,546.09	IRON
514	1,717,297.81	1,660,550.77	IRON
515	1,717,245.99	1,660,500.61	IRON
516	1,717,243.40	1,660,341.06	IRON
517	1,717,236.56	1,660,304.80	IRON
518	1,717,165.44	1,660,238.34	IRON
519	1,717,132.90	1,660,233.84	IRON
520	1,717,042.34	1,660,235.10	IRON
521	1,717,043.09	1,660,293.09	IRON
522	1,717,133.70	1,660,291.84	IRON
523	1,717,185.40	1,660,342.00	IRON
524	1,717,188.00	1,660,501.55	IRON
525	1,717,298.75	1,660,608.77	IRON
526	1,718,601.86	1,660,587.67	IRON
527	1,718,604.22	1,660,733.65	IRON
528	1,717,800.14	1,660,746.67	IRON
529	1,717,228.93	1,660,754.77	IRON
530	1,717,047.36	1,660,625.93	IRON
531	1,718,668.21	1,660,732.61	IRON
532	1,719,252.01	1,660,603.14	IRON
533	1,719,214.84	1,660,571.74	IRON
534	1,719,163.53	1,660,572.57	IRON
535	1,719,164.05	1,660,604.57	IRON
536	1,719,093.47	1,660,593.37	IRON
537	1,719,103.86	1,660,563.11	IRON
538	1,718,872.66	1,660,517.55	IRON
539	1,718,883.05	1,660,487.29	IRON
540	1,718,836.97	1,660,466.02	IRON
541	1,718,820.68	1,660,493.56	IRON
542	1,718,755.46	1,660,417.80	IRON
543	1,718,739.16	1,660,445.34	IRON
544	1,718,663.31	1,660,428.34	IRON
545	1,718,659.54	1,660,397.56	IRON
546	1,718,598.16	1,660,304.53	IRON
547	1,718,485.61	1,660,212.36	IRON
548	1,718,336.85	1,660,122.63	IRON
549	1,718,173.43	1,660,055.83	IRON

Point #	Northing	Easting	Description
550	1,717,948.09	1,659,978.81	IRON
551	1,717,855.78	1,659,959.91	IRON
552	1,717,752.97	1,659,939.95	IRON
553	1,717,549.87	1,659,904.87	IRON
554	1,717,466.89	1,659,807.62	IRON
555	1,717,462.80	1,659,488.20	IRON
556	1,717,777.41	1,659,483.84	IRON
557	1,717,653.60	1,659,987.74	IRON
558	1,717,647.26	1,660,069.50	IRON
559	1,717,638.32	1,660,154.00	IRON
560	1,717,634.73	1,660,283.51	IRON
561	1,717,642.05	1,660,361.14	IRON
562	1,717,645.05	1,660,545.15	IRON
563	1,717,927.01	1,660,540.59	IRON
564	1,717,924.88	1,660,409.80	IRON
565	1,717,928.63	1,660,319.73	IRON
566	1,717,926.24	1,660,227.41	IRON
567	1,717,920.88	1,660,148.14	IRON
568	1,717,978.84	1,660,151.57	IRON
569	1,717,983.57	1,660,218.67	IRON
570	1,717,986.35	1,660,325.49	IRON
571	1,717,982.87	1,660,408.85	IRON
572	1,717,985.00	1,660,539.65	IRON
573	1,718,266.96	1,660,535.08	IRON
574	1,718,262.80	1,660,279.30	IRON
575	1,718,320.80	1,660,278.36	IRON
576	1,718,324.96	1,660,534.14	IRON
577	1,718,600.92	1,660,529.67	IRON
578	1,718,599.32	1,660,430.37	IRON
579	1,718,560.73	1,660,356.44	IRON
580	1,718,442.10	1,660,259.30	IRON
581	1,718,315.63	1,660,183.01	IRON
582	1,718,146.27	1,660,113.78	IRON
583	1,717,934.59	1,660,042.38	IRON
584	1,717,842.29	1,660,022.47	IRON
585	1,717,742.07	1,660,003.02	IRON

Point #	Northing	Easting	Elev	Description
7000	1717477.36	1659474.90	0.00	END SECTION
7001	1717384.69	1659476.43	0.00	END SECTION
7002	1717501.29	1659580.75	0.00	END SECTION
7003	1717459.03	1659534.53	0.00	CI
7004	1717457.55	1659534.32	0.00	CEN INSIDE FC
7005	1717402.16	1659529.99	0.00	CEN INSIDE FC
7006	1717400.66	1659529.93	0.00	CI
7007	1717262.61	1659530.97	0.00	END SECTION
7008	1717594.63	1659778.36	0.00	END SECTION
7009	1717568.19	1659919.54	0.00	CI
7010	1717567.89	1659921.01	0.00	CEN INSIDE FC
7011	1717561.41	1659958.79	0.00	CEN INSIDE FC
7012	1717561.15	1659960.27	0.00	CI
7013	1717555.45	1659989.37	0.00	END SECTION
7014	1717827.63	1659815.98	0.00	END SECTION
7015	1717798.11	1659959.71	0.00	CI
7016	1717797.80	1659961.18	0.00	CEN INSIDE FC
7017	1717785.30	1659997.82	0.00	CEN INSIDE FC
7018	1717784.94	1659999.28	0.00	CI
7019	1717785.27	1660188.84	0.00	DROP INLET
7020	1717964.44	1660037.63	0.00	CI
7021	1717964.09	1660039.08	0.00	CEN INSIDE FC
7022	1717956.57	1660069.28	0.00	CEN INSIDE FC
7023	1717956.32	1660070.76	0.00	CI
7024	1718205.79	1659923.44	0.00	END SECTION
7025	1718146.59	1660056.07	0.00	CI
7026	1718145.98	1660057.44	0.00	CEN INSIDE FC
7027	1718117.58	1660086.93	0.00	CEN INSIDE FC
7028	1718116.79	1660088.77	0.00	CI
7029	1718116.25	1660246.36	0.00	BACKYARD INLET
7030	1718289.90	1660162.21	0.00	CI
7031	1718290.60	1660160.33	0.00	CEN INSIDE FC
7032	1718290.51	1660198.44	0.00	CI
7033	1718290.53	1660200.94	0.00	CEN INSIDE FC
7034	1717320.48	1660187.68	0.00	END SECTION
7035	1717240.83	1660241.48	0.00	CI
7036	1717239.59	1660242.32	0.00	CEN INSIDE FC
7037	1717177.99	1660296.19	0.00	CEN INSIDE FC
7038	1717176.97	1660297.29	0.00	CI
7039	1717431.55	1660292.72	0.00	END SECTION
7040	1717417.31	1660317.60	0.00	BACKYARD INLET
7041	1717420.75	1660528.78	0.00	BACKYARD INLET
7042	1717445.52	1660593.56	0.00	CEN INSIDE FC
7043	1717445.55	1660595.06	0.00	CI
7044	1717445.27	1660731.70	0.00	BACKYARD INLET
7045	1717253.63	1660544.56	0.00	CI
7046	1717252.59	1660545.64	0.00	CEN INSIDE FC
7047	1717230.09	1660568.88	0.00	CEN INSIDE FC
7048	1717229.05	1660569.96	0.00	CI
7049	1717214.22	1660585.28	0.00	BACKYARD INLET

Point #	Northing	Easting	Elev	Description
7050	1717854.77	1659556.94	0.00	END SECTION
7051	1717835.35	1659694.24	0.00	DROP INLET
7052	1717764.51	1659636.61	0.00	CEN OF WEIR
7053	1719281.57	1660462.93	0.00	END SECTION
7054	1719259.14	1660528.26	0.00	CI
7055	1719258.71	1660530.38	0.00	CEN INSIDE FC



BAUGHMAN COMPANY

315 Ellis St.
 Wichita, KS 67211
 316-262-7271
 BaughmanCo.com

FALCON FALLS EAST
 2ND ADDITION

COORDINATES

STORMWATER DRAIN
 IMPROVEMENTS

PROJECT NUMBER:

DESIGN: HJW DRAWN: AJV

DATE: January 24, 2024

SHEET OF
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