

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:

Kansas One-Call	687-2470
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The Contractor must notify the following in case of an emergency:

AT&T	1-800-246-8464
Black Hills Energy	1-800-694-8989
City of Wichita Water	1-316-268-4555
City of Wichita Sewer	1-316-268-4073
City of Wichita Stormwater	1-316-268-4090
City of Wichita Traffic	1-316-268-4034
Cox Communications	1-888-249-3530
Kansas Gas Service	1-888-482-4950
Westar Energy	1-800-544-4857
Southern Star Central Gas Pipeline	1-316-303-7800
- Utility service lines, poles, etc. 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.
- 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 will 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 will require additional archaeological investigations unless buried in a previously approved borrow location.
- 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.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- The Engineering Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match field grades by the Contractor.
- The Contractor shall notify the consultant engineer and Tom Mason with the City at 316-268-4574 with the anticipated construction start date and notify them of project completion. Staking and inspection for this project will be the responsibility of the Contractor.
- If traffic is impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Brian Coan at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractor's responsibility.
- All elevations shown are NAVD 88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.
- Any sidewalk, drive approach, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-268-4501 or 316-268-4480.
- City Maintenance of storm sewer ends at the last structure in the easement or right-of-way.
- A portion of excess excavated material shall be mounded around manholes which extend more than one (1) foot above the existing ground. Such mound shall be constructed with new development a six (6) foot diameter flat top with 4 to 1 side slopes down to the original ground. The elevation of the flat top of the mound shall be 0.4 foot below the top to the manhole.
- Geotechnical report available upon request.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- The inspecting firm shall submit to the City Stormwater Maintenance Division a digital copy of the CCTV inspection of the conduits and structures following construction. The digital file format shall be compatible with the City input template. A copy of the template is available upon request at 316-268-4090.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the Contractor's expense.

Sheet Index

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RD102	Grading & Paving Details
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RD203-RD204	Edwards Plan & Profile
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RD209-RD211	Crimson Plan & Profile
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RD302-RD303	Drive Details
SWS100	Grated Driveway Inlet (Double) Details
SWS101	Precast Manhole Details
SWS102	Storm Sewer Details
SWS200	Storm Sewer Line A & B Plan & Profile
SWS201	Storm Sewer Line C & D Plan & Profile
SWS202	Storm Sewer Line E Plan & Profile
EC100	Erosion Control Plan
EC101-EC105	Erosion Control Details

CONTRACTOR:
McCullough Excavation

INSPECTING FIRM:
ASM Engineering Consultants

INSPECTORS:
Eric Hamilton
Phil Boone

STORM SEWER, PRIVATE ROAD, & GRADING

to serve part of

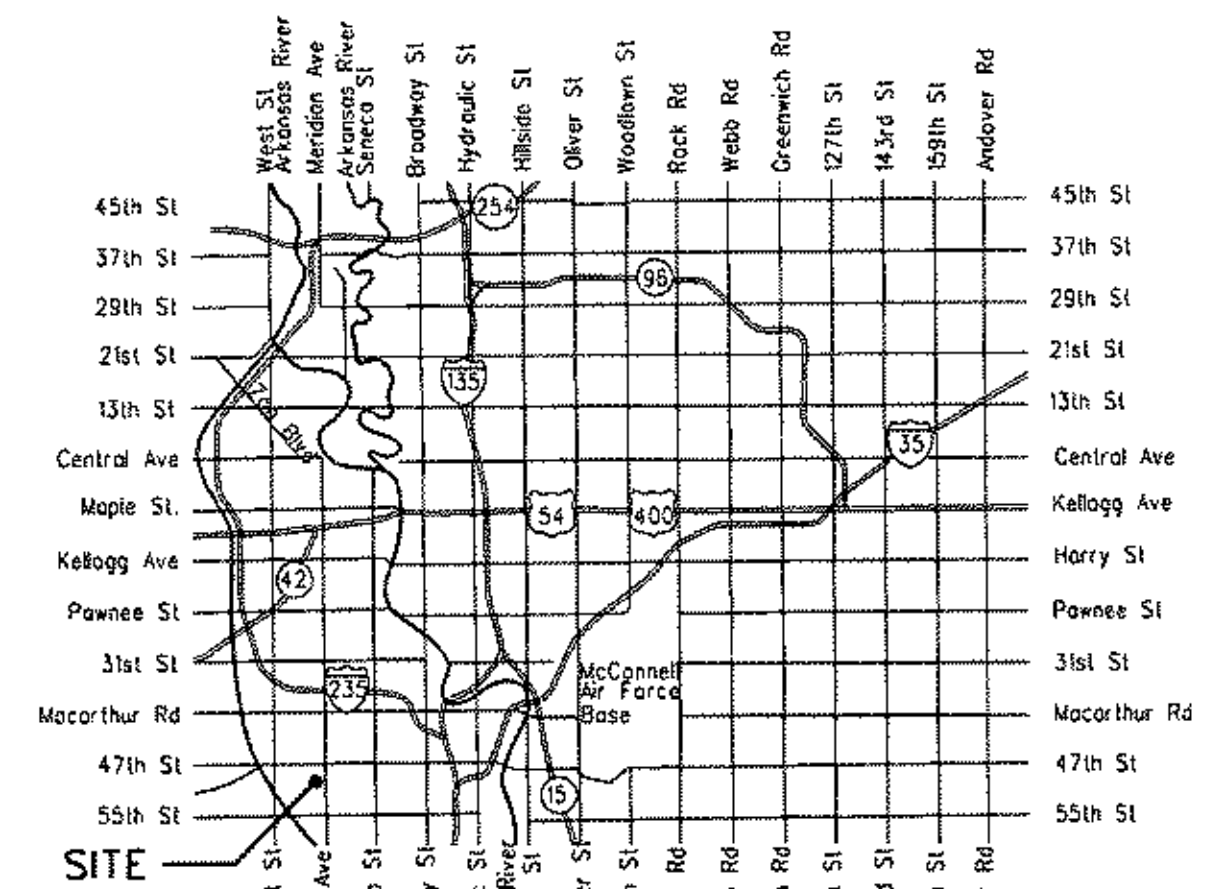
SOUTHBOROUGH ESTATES

5111 South Meridian

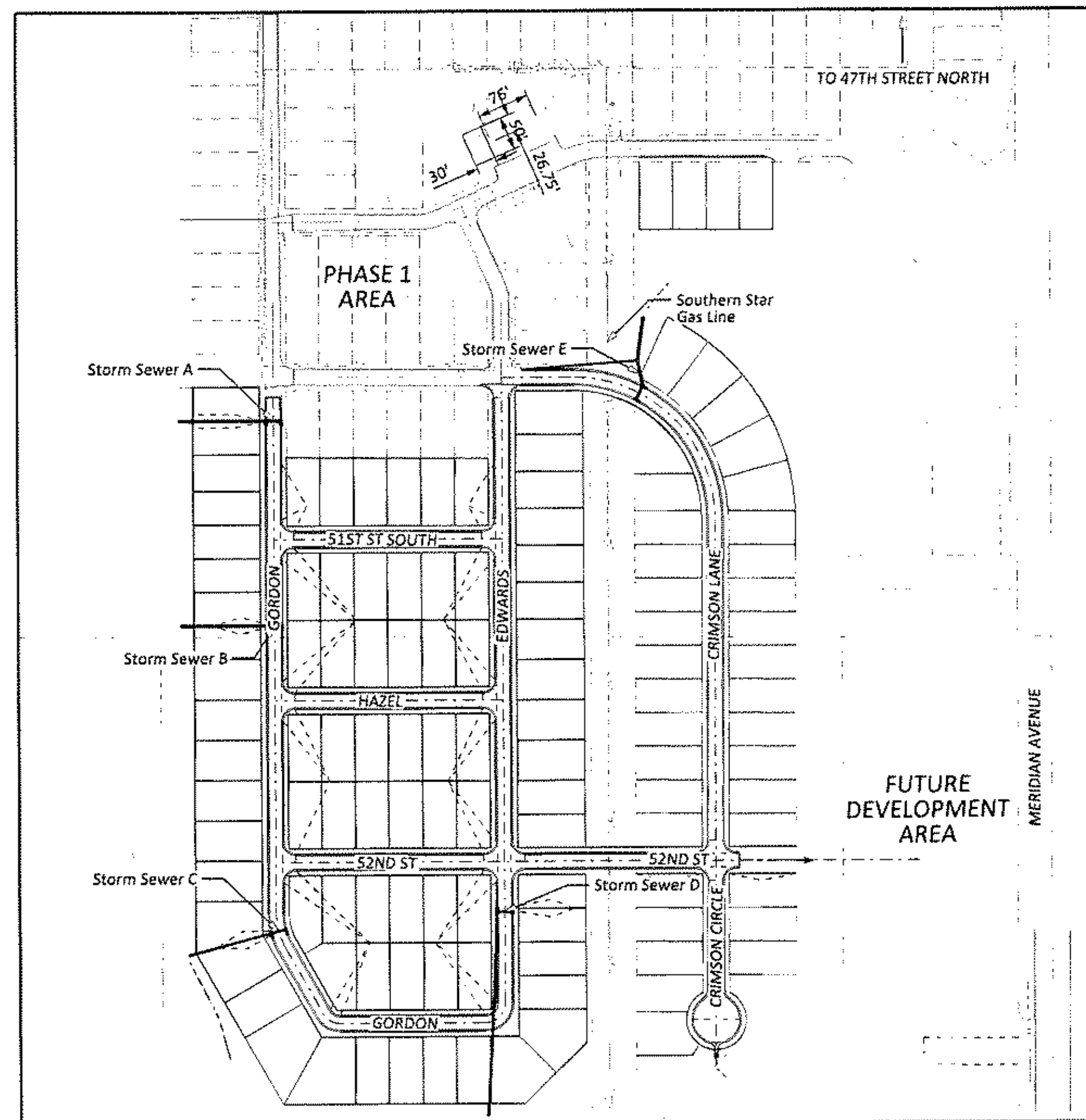
City of Wichita, Kansas

Gary Janzen, P.E. City Engineer
Project Number
575 PPD (133119)

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Vicinity Map



Stormwater Certification

New Development or Redevelopment (Circle One)

Stormwater Permit #: Pending

NOI Permit #: S-AR94-1544

These construction plans were prepared in accordance with the current Stormwater Management Regulations as set forth in the City of Wichita's Stormwater Management Ordinance 16.32 and the policies/guidelines presented in the Wichita/Sedgwick County Stormwater Manual.

Site Area (Acres) = 71.9
Disturbed Area (Acres) = 29.9
Water Quality Treatment: 2.99 acre-ft
Downstream Channel Protection: 6.98 acre-ft
Detention: Dry Detention Pond - See Drainage Calculation Report!
The BMP used for this development is Off Site BMP Program

APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING
AND STORMWATER DIVISION

Engineering: Neth Guddey 4.17.19
Stormwater: Joe Hinkle 4-18-19

NOTE TO CONTRACTORS

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 in the state of Kansas. No work shall be performed the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the current City of Wichita Specifications and Standards and Special Provisions. (on file and available at Wichita.gov).

An approved copy of these plans signed by City staff are required on-site.

Benchmark

BM#1: Square cut on headwall, 15' S and 23' E corner of Lot 2 Block 1 Southborough Estates 2nd Add.
Elev. = 1276.52 (NAVD 88)

BM#2: Square cut on northeast corner of concrete base for mailboxes.
Elev. = 1276.52 (NAVD 88)

KURT L. HERSHKEY
LICENSED PROFESSIONAL ENGINEER
KANSAS
24435

Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Drawn By: BGN
Checked By: KLH
Date: 4/17/2019
Issue No.: 0

ASM
Engineering Consultants
2015 Professional V. 175, Reg. No. 24435
1010 West 15th Street, Suite 100
Wichita, Kansas 67217

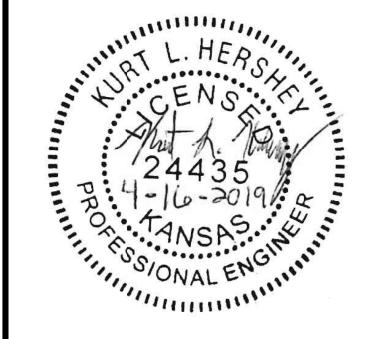
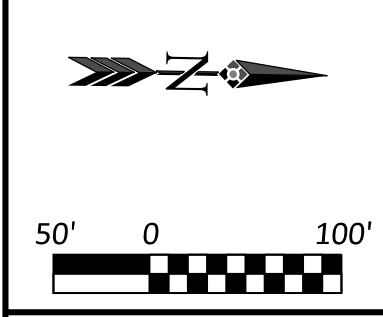
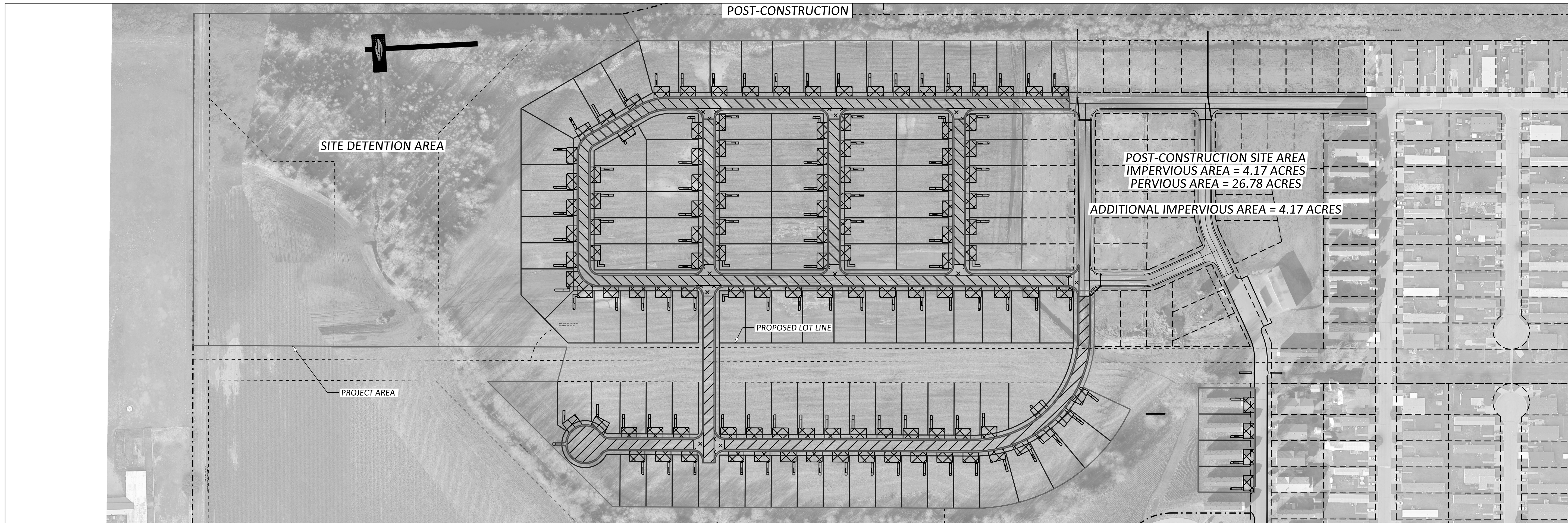
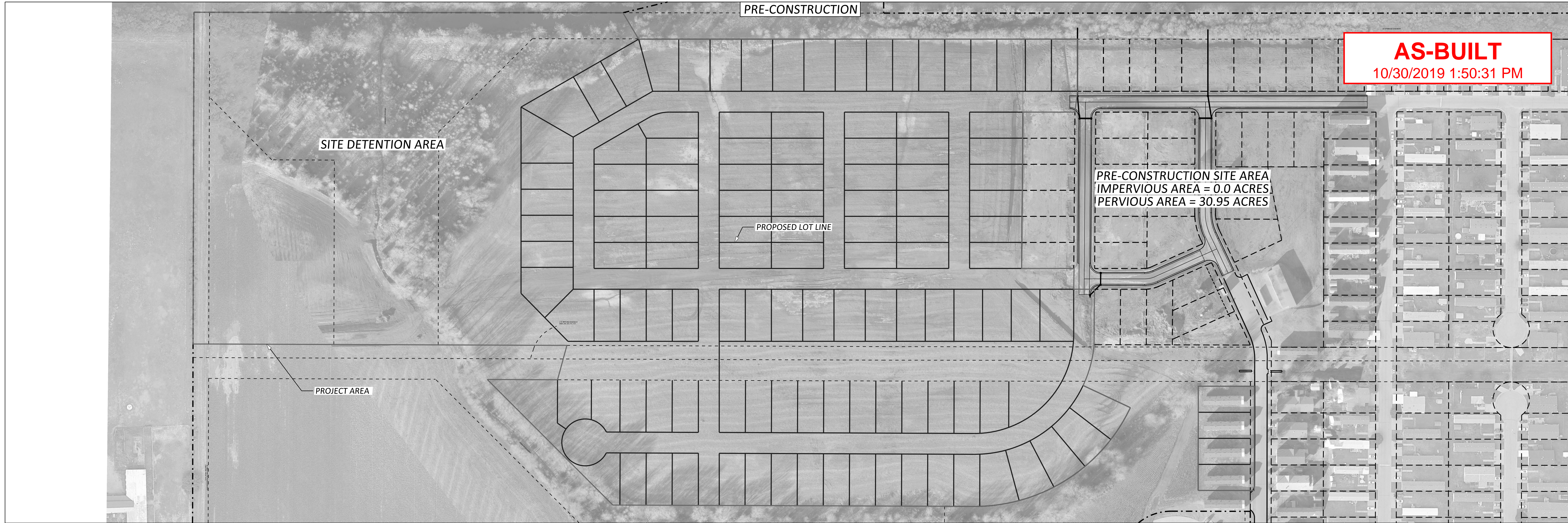
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5111 S. Meridian
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2

TITLE SHEET

Sheet No. **C100**
Project No. **2129**

APRIL 2019



Issue	Date	By	Description
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-	-	-	-
-	-	-	-

Drawn By:	BGN	Date:	4/17/2019
Checked By:	KLH	Issue No.:	0



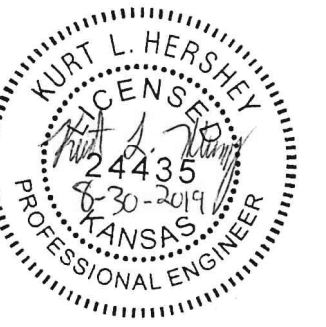
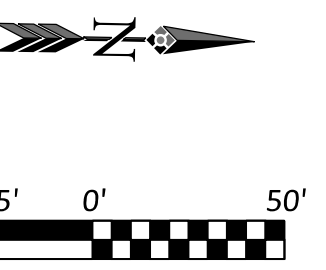
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 5111 S. Meridian,
 Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
ERU PLAN
 WICHITA, KANSAS

Sheet No.
C101
 Project No.
2129

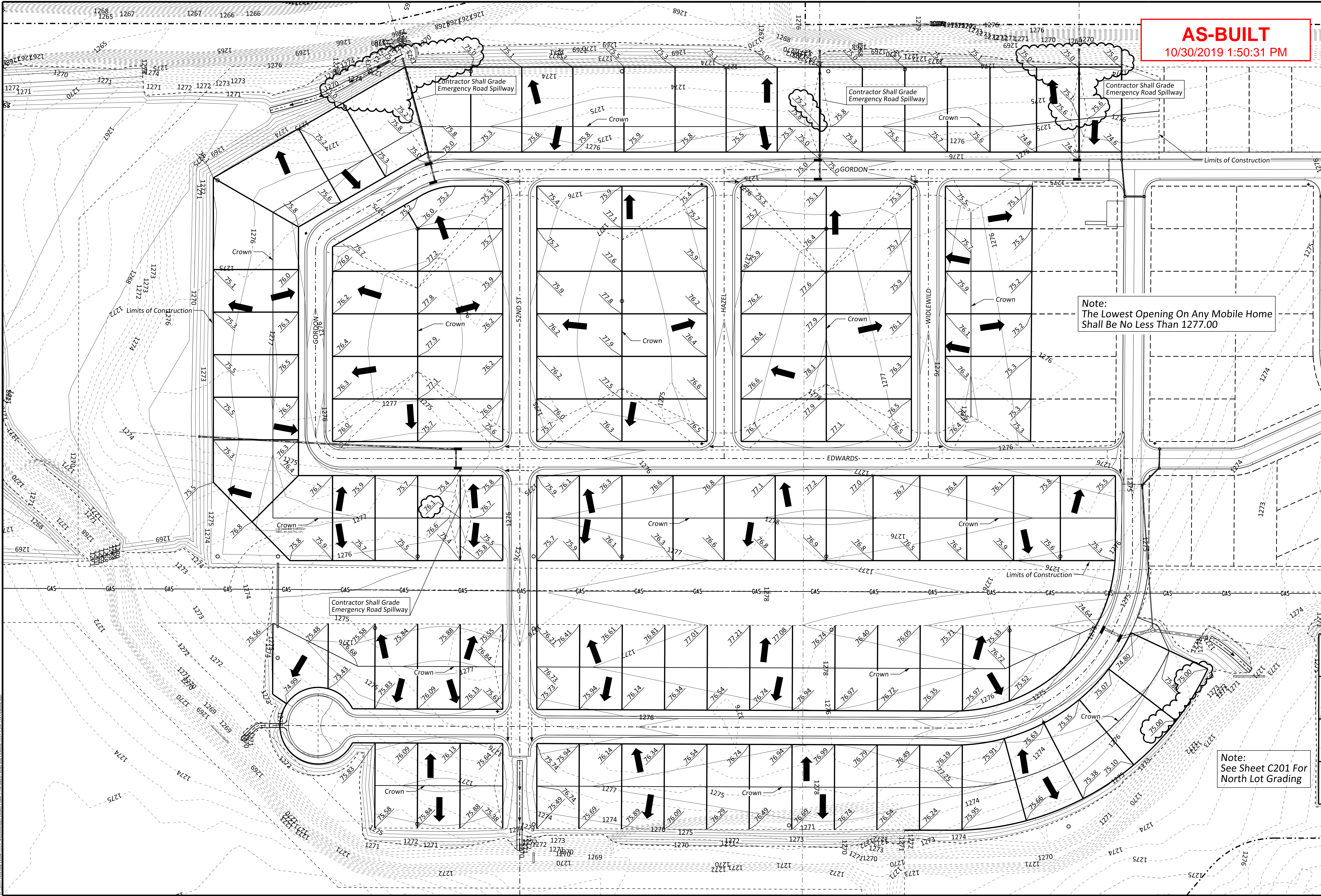
© 2019 Welcome Home, 2129 Southborough Estate Phase 2, Wichita, Kansas and Central KS, CDL & BLD, Inc.

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Issue	Date	By	Description
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1	08-30-2019	KLH	REVISED OVERTOPPING LOCATIONS

Drawn By:	BGN	Date:	8/30/2019
Checked By:	KLH	Issue No.:	1



Note:
The Lowest Opening On Any Mobile Home
Shall Be No Less Than 1277.00

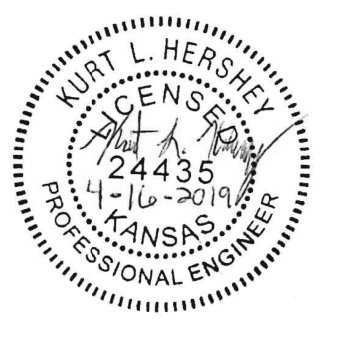
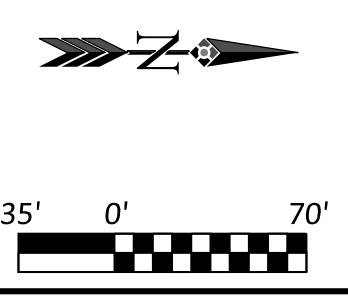
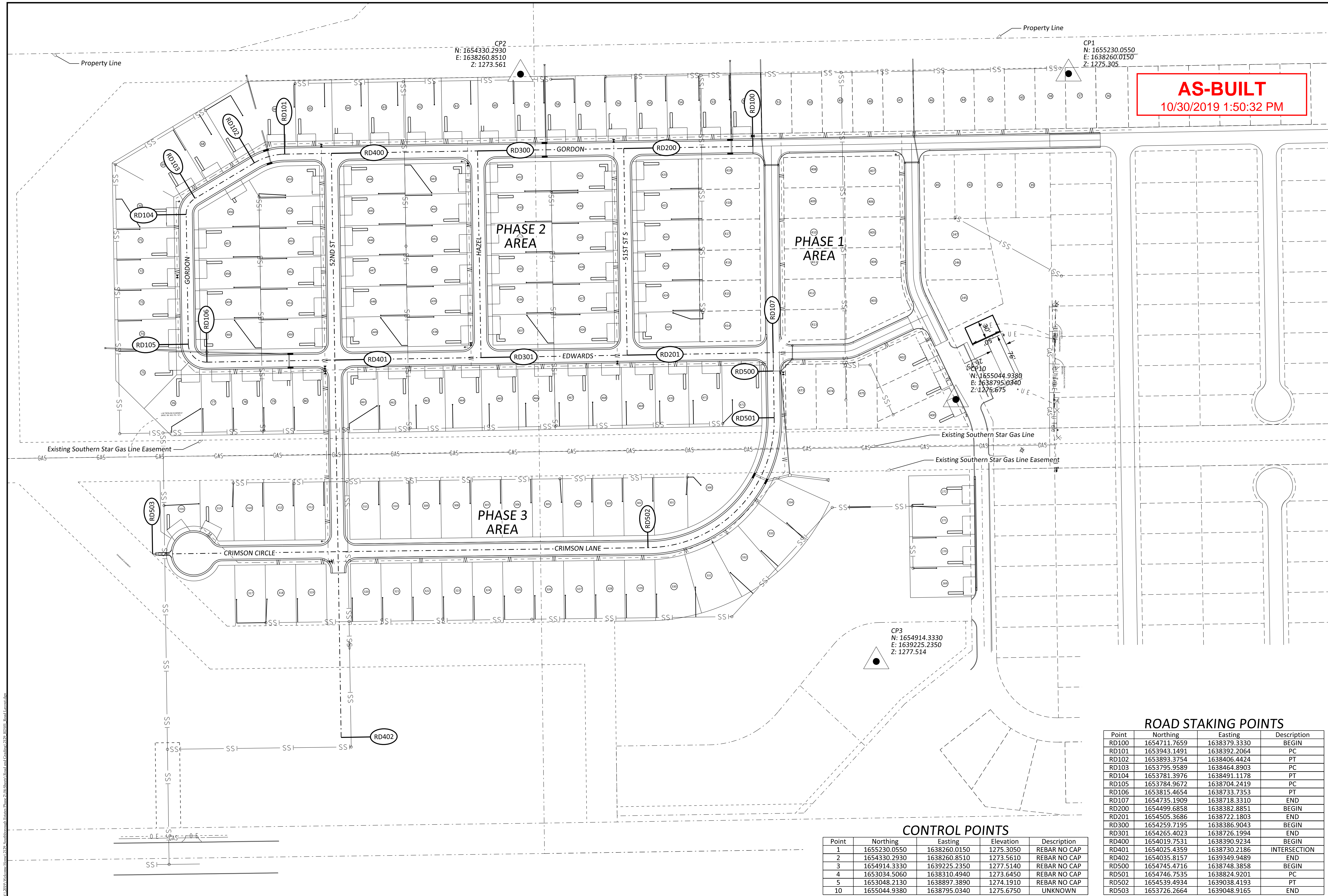
Note:
See Sheet C201 For
North Lot Grading



Client: **WELCOME HOME**
5111 S. Meridian,
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
LOT GRADING
WICHITA, KANSAS

Sheet No. **C200**
Project No. **2129**



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Drawn By:	BGN	Date:	4/17/2019
Checked By:	KLH	Issue No.:	0



Client: **WELCOME HOME**
5111 S. Meridian,
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
ROAD LAYOUT
WICHITA, KANSAS
Sheet No. **RD101**
Project No. **2129**

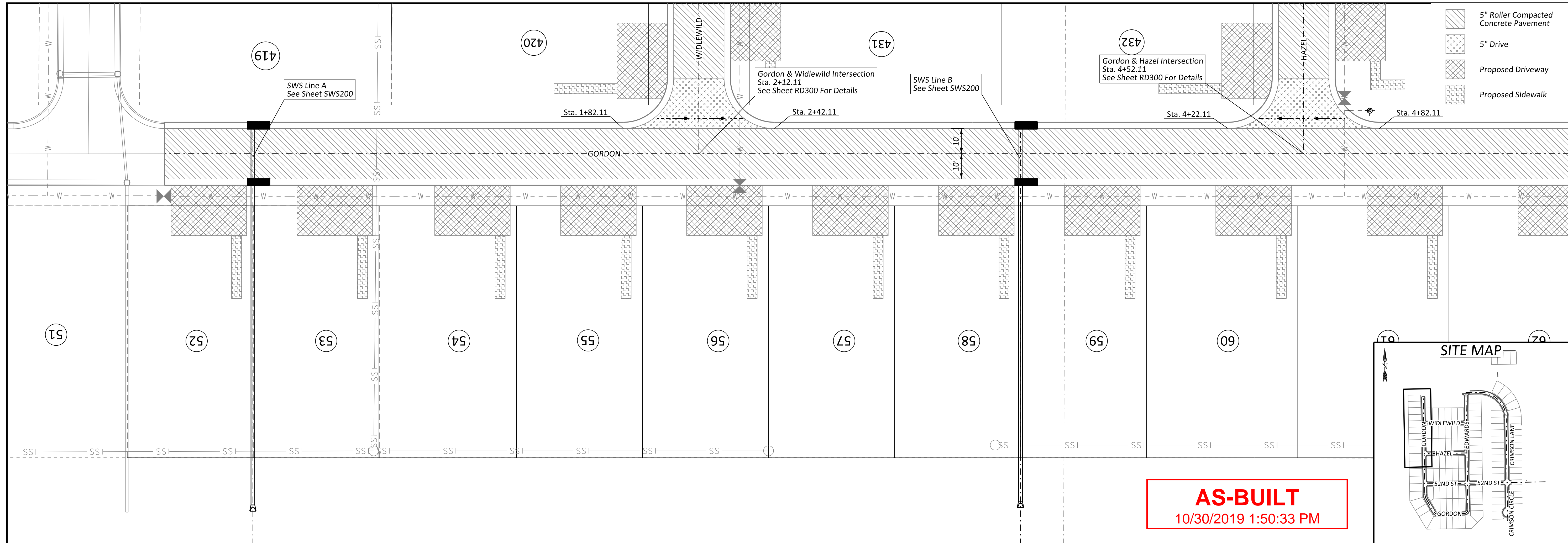
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Point	Northing	Easting	Elevation	Description
1	1655230.0550	1638260.0150	1275.3050	REBAR NO CAP
2	1654330.2930	1638260.8510	1273.5610	REBAR NO CAP
3	1654914.3330	1639225.2350	1277.5140	REBAR NO CAP
4	1653034.5060	1638310.4940	1273.6450	REBAR NO CAP
5	1653048.2130	1638897.3890	1274.1910	REBAR NO CAP
10	1655044.9380	1638795.0340	1275.6750	UNKNOWN

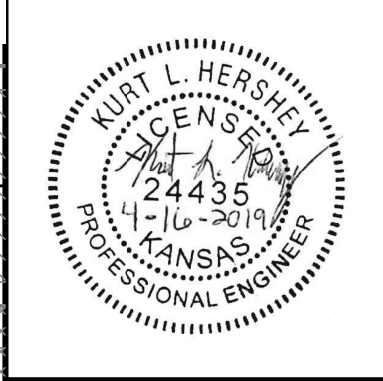
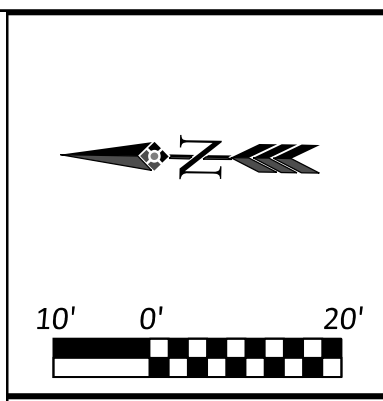
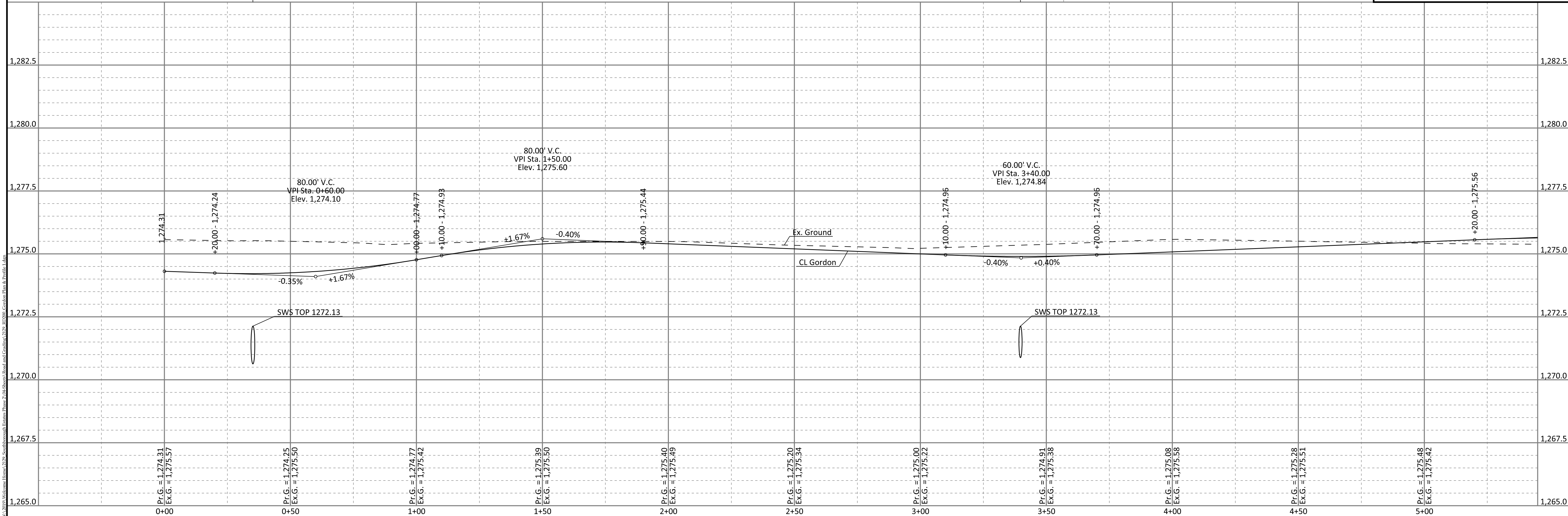
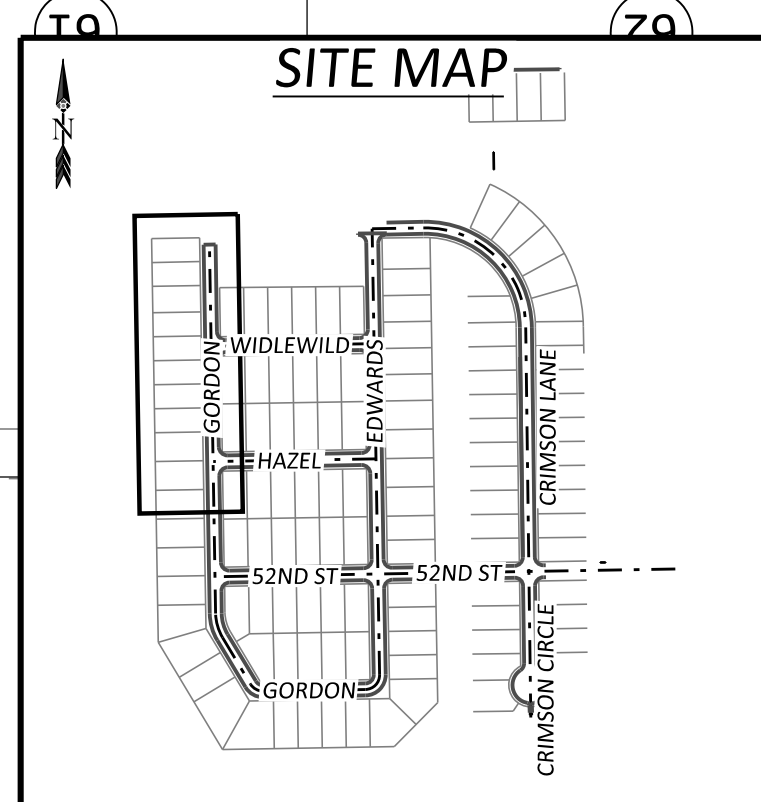
ROAD STAKING POINTS

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RD101	1653943.1491	1638392.2064	PC
RD102	1653893.3754	1638406.4424	PT
RD103	1653795.9589	1638464.8903	PC
RD104	1653781.3976	1638491.1178	PT
RD105	1653784.9672	1638704.2419	PC
RD106	1653815.4654	1638733.7353	PT
RD107	1654735.1909	1638718.3310	END
RD200	1654499.6858	1638382.8851	BEGIN
RD201	1654505.3686	1638722.1803	END
RD300	1654259.7195	1638386.9043	BEGIN
RD301	1654265.4023	1638726.1994	END
RD400	1654019.7531	1638390.9234	BEGIN
RD401	1654025.4359	1638730.2186	INTERSECTION
RD402	1654035.8157	1639349.9489	END
RD500	1654745.4716	1638748.3858	BEGIN
RD501	1654746.7535	1638824.9201	PC
RD502	1654539.4934	1639038.4193	PT
RD503	1653726.2664	1639048.9165	END

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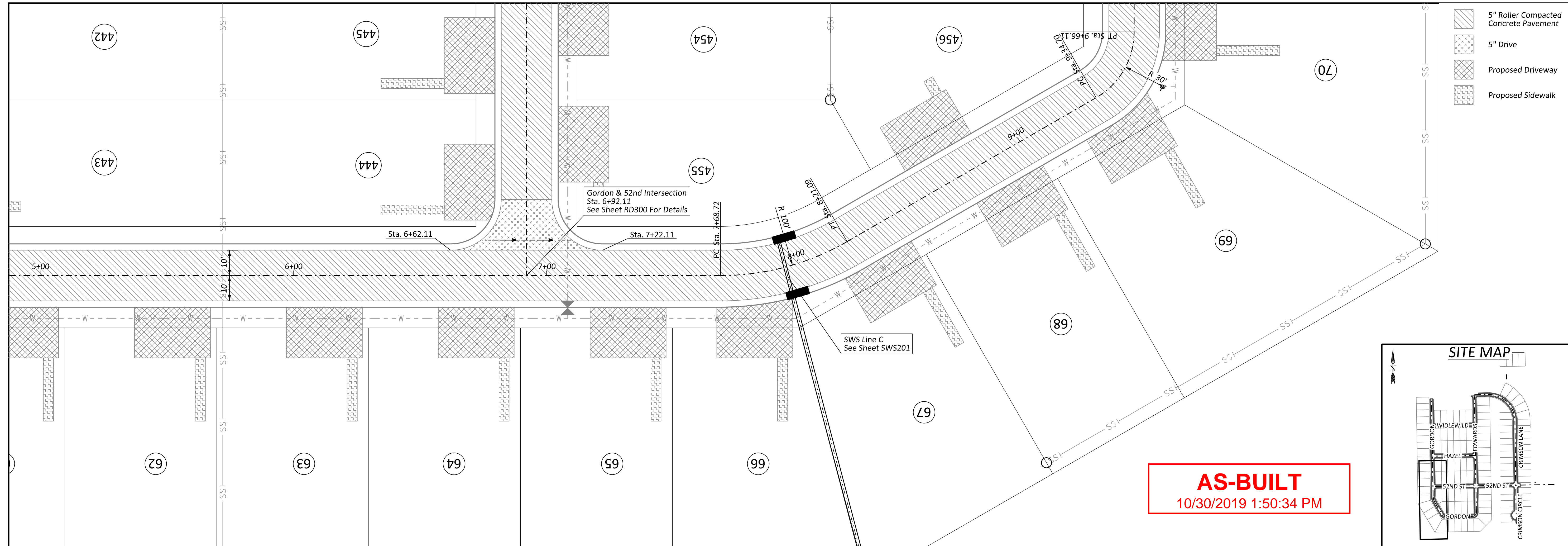


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5111 S. Meridian
Wichita, KS 67217

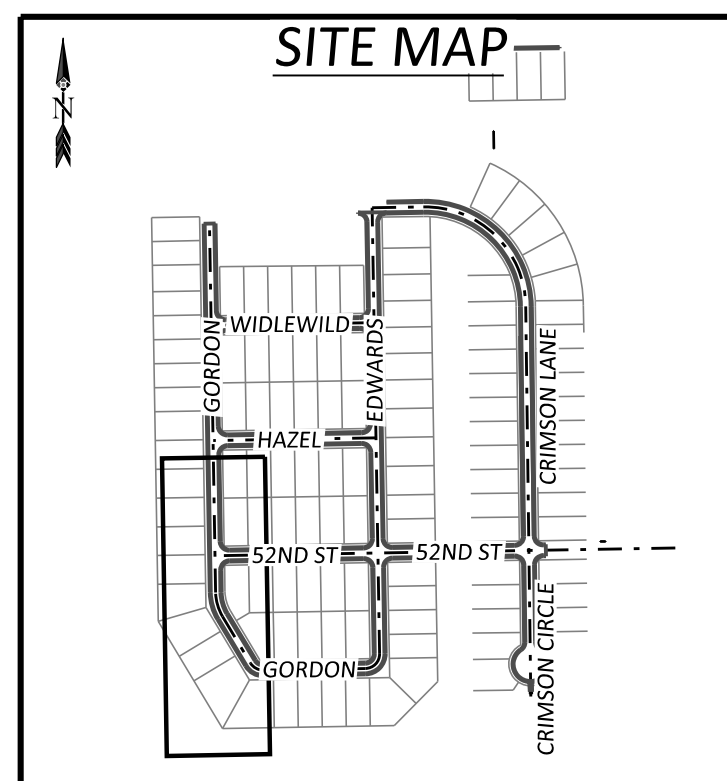
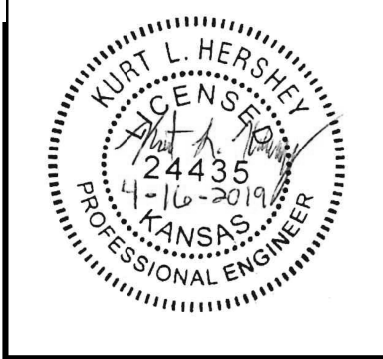
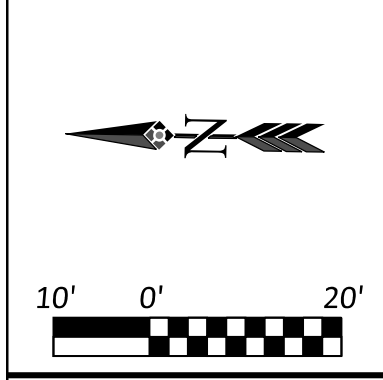
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WICHITA, KANSAS

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Project No. **2129**

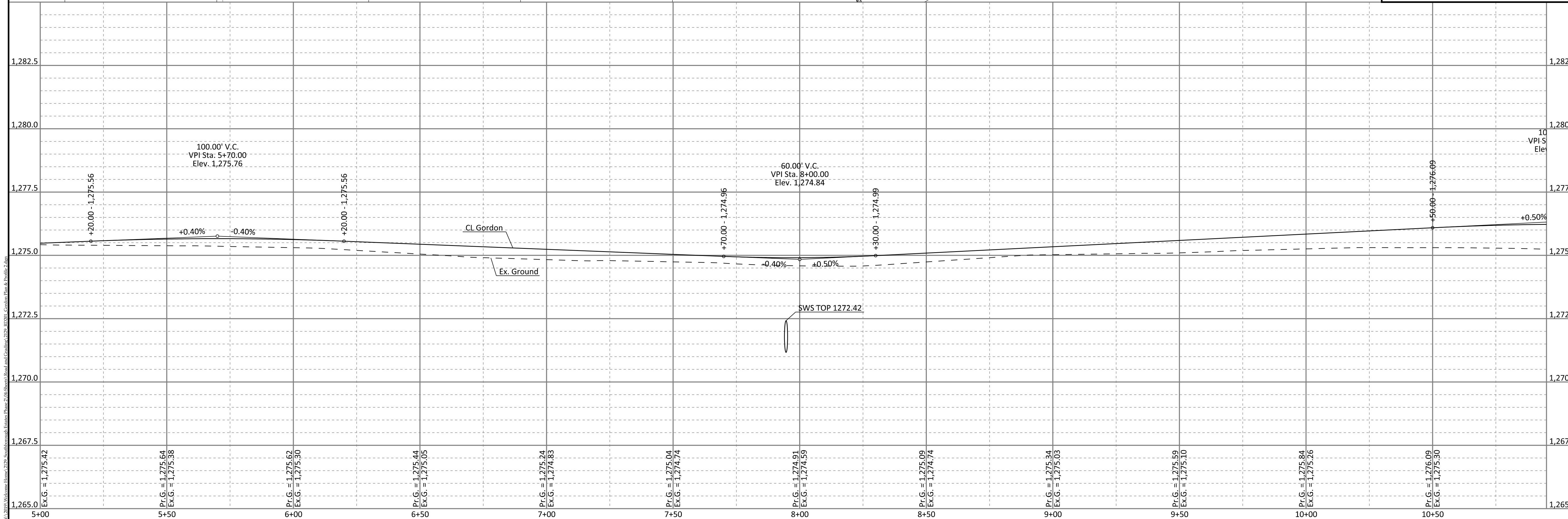
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- 5" Roller Compacted Concrete Pavement
- 5" Drive
- Proposed Driveway
- Proposed Sidewalk



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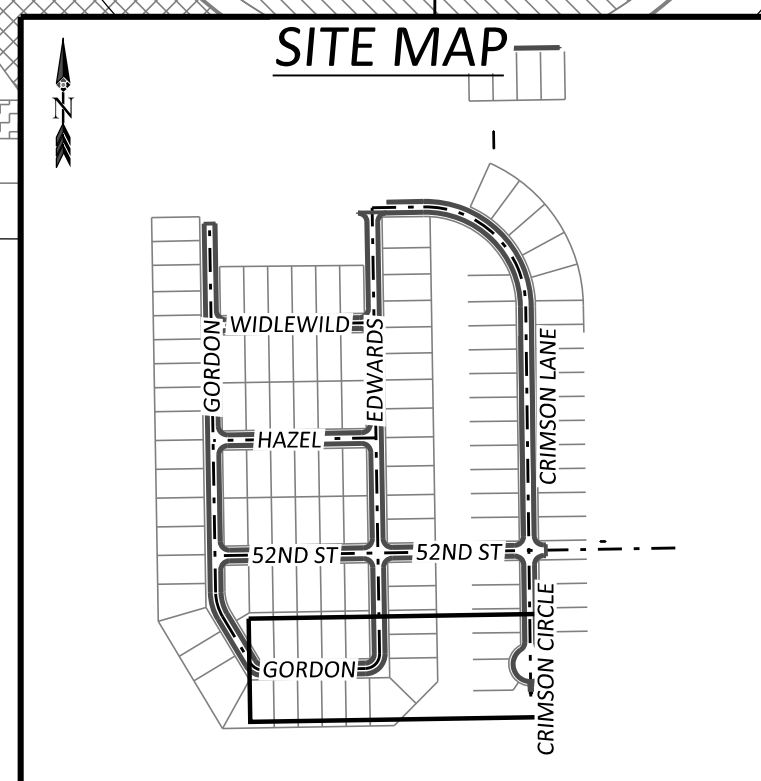
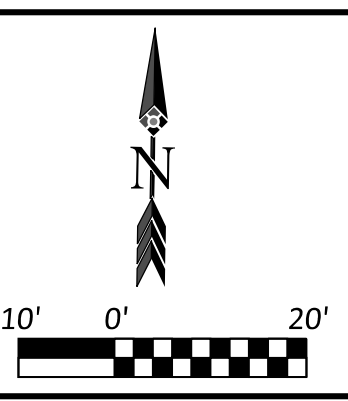
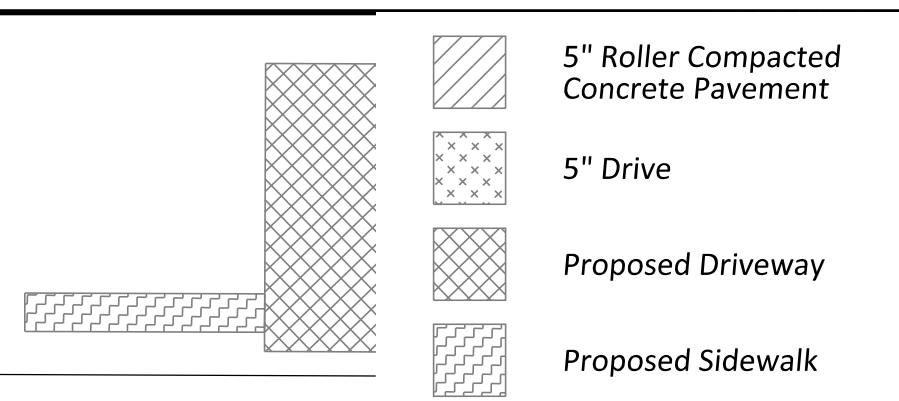
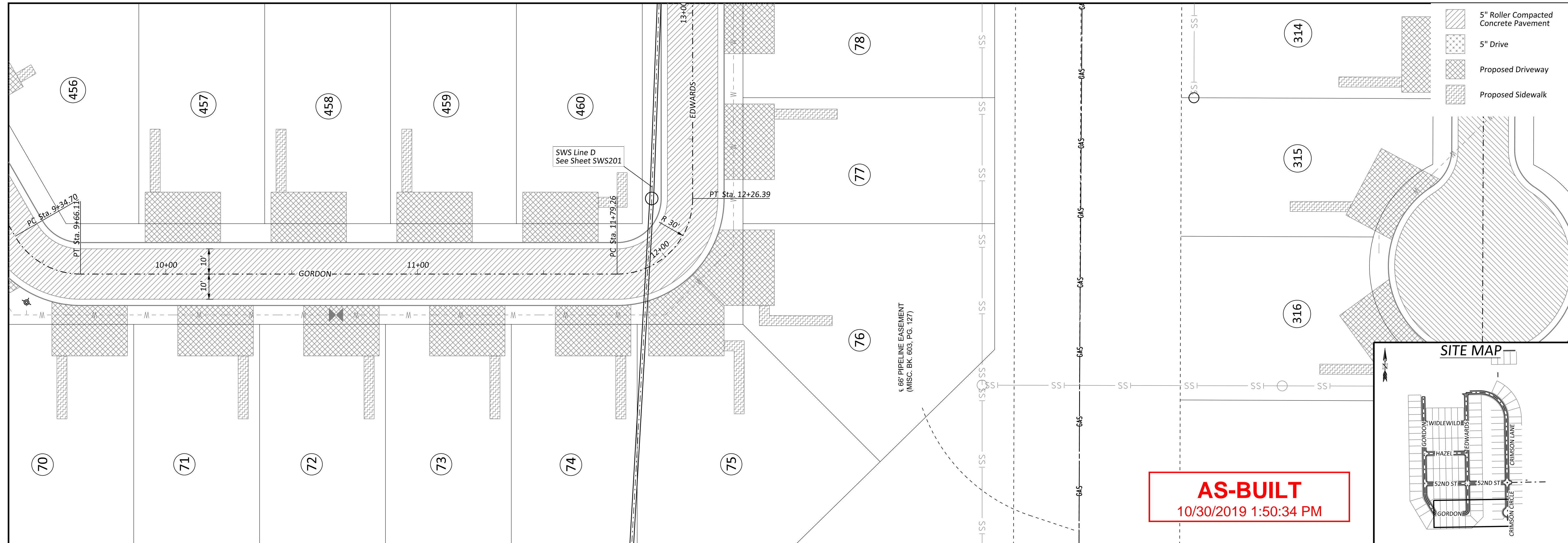
ASM
Engineering Consultants
202 E. Broadway Ave., 1100 Box 452 | Andover, KS 67207
P: (316) 266-8985 | F: (316) 266-9954 | www.asmc.com

Client: **WELCOME HOME**
5111 S. Meridian
Wichita, KS 67217

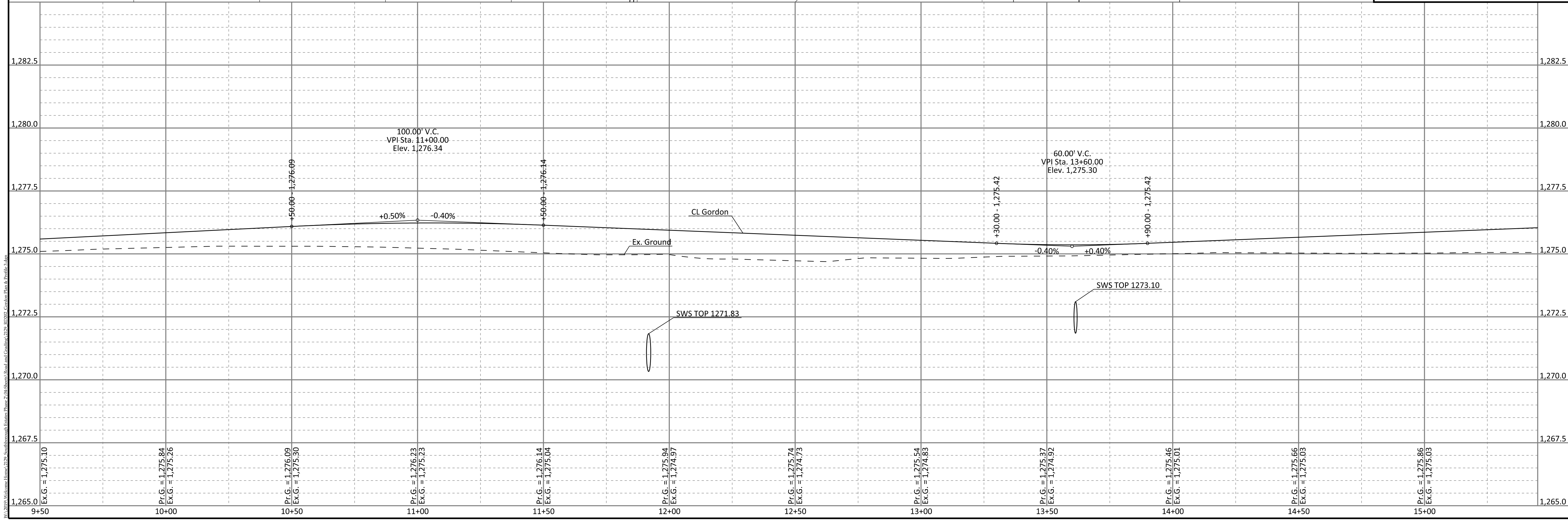
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WICHITA, KANSAS

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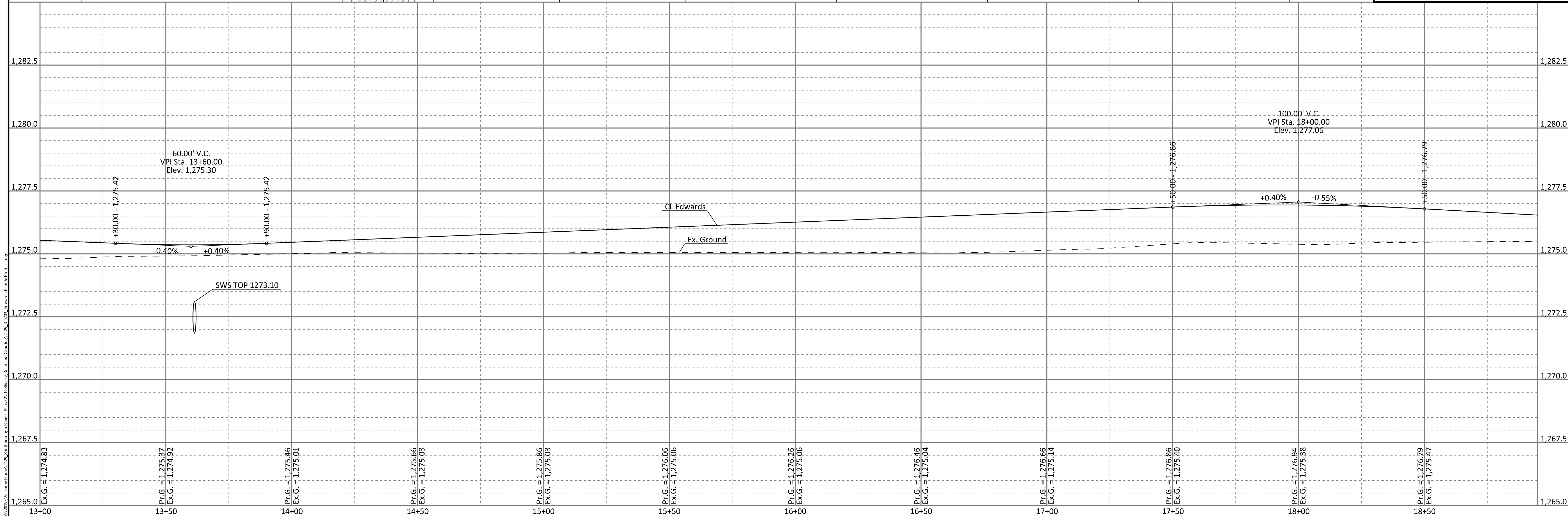
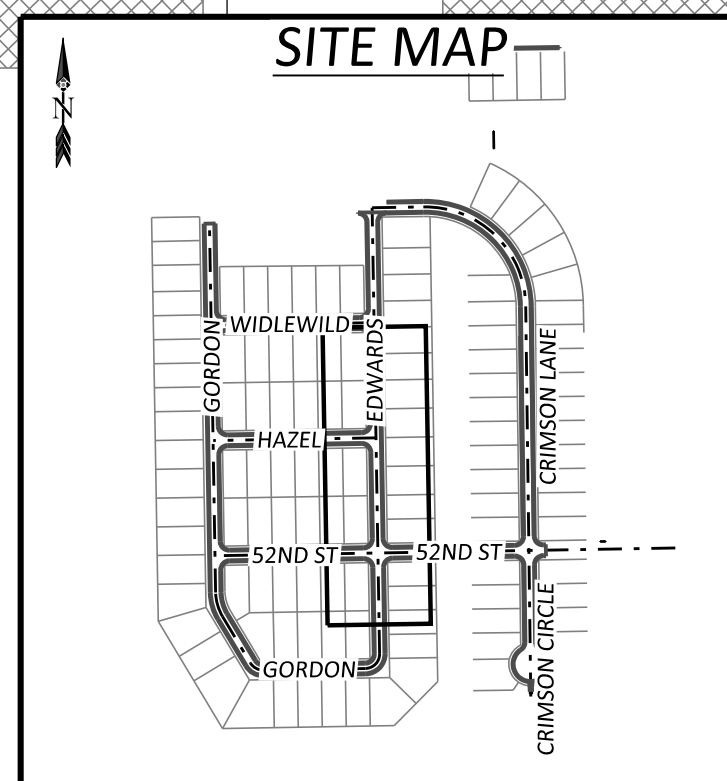
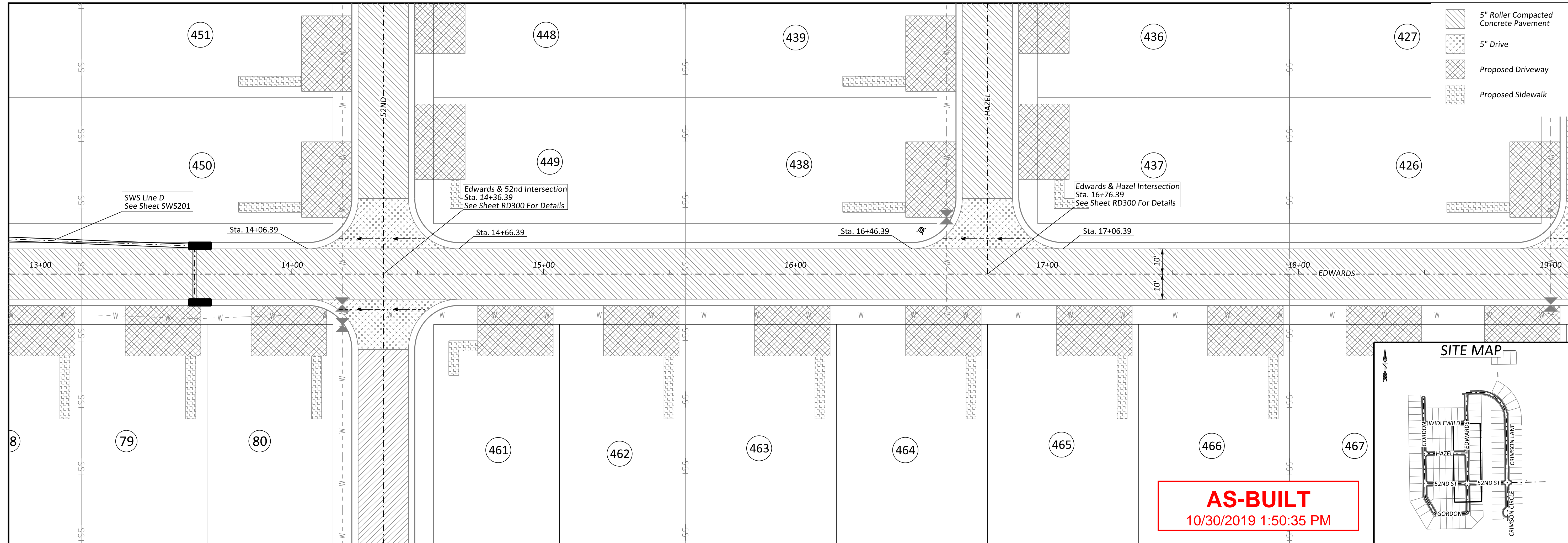
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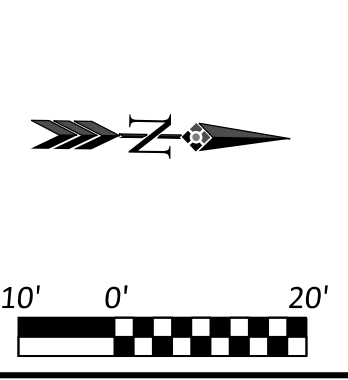
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5111 S. Meridian,
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
GORDON PLAN & PROFILE
WICHITA, KANSAS

Sheet No. **RD202**
Project No. **2129**



- 5" Roller Compacted Concrete Pavement
- 5" Drive
- Proposed Driveway
- Proposed Sidewalk



Issue	Date	By	Description
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Checked By: _____ Date: 4/17/2019 Issue No. 0

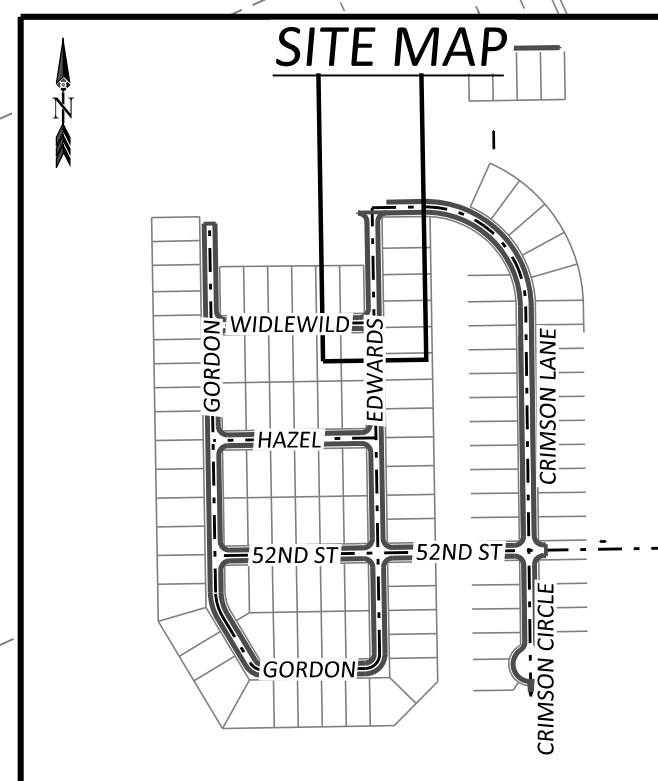
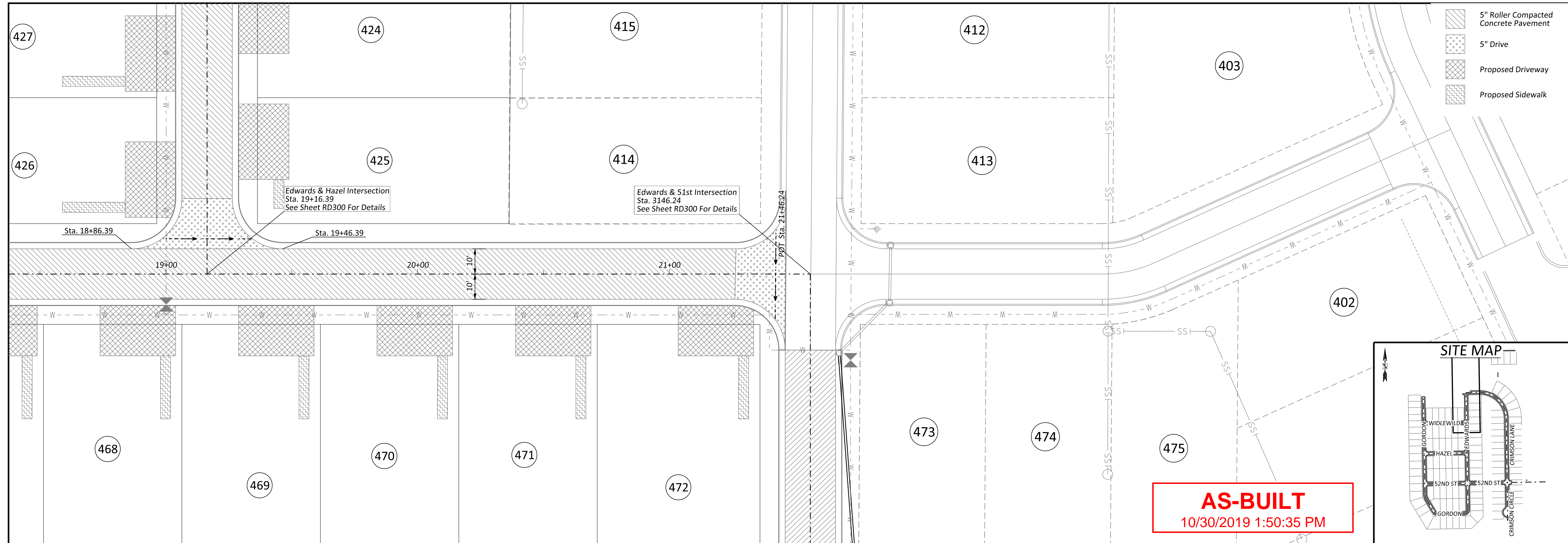


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5111 S. Meridian
Wichita, KS 67217

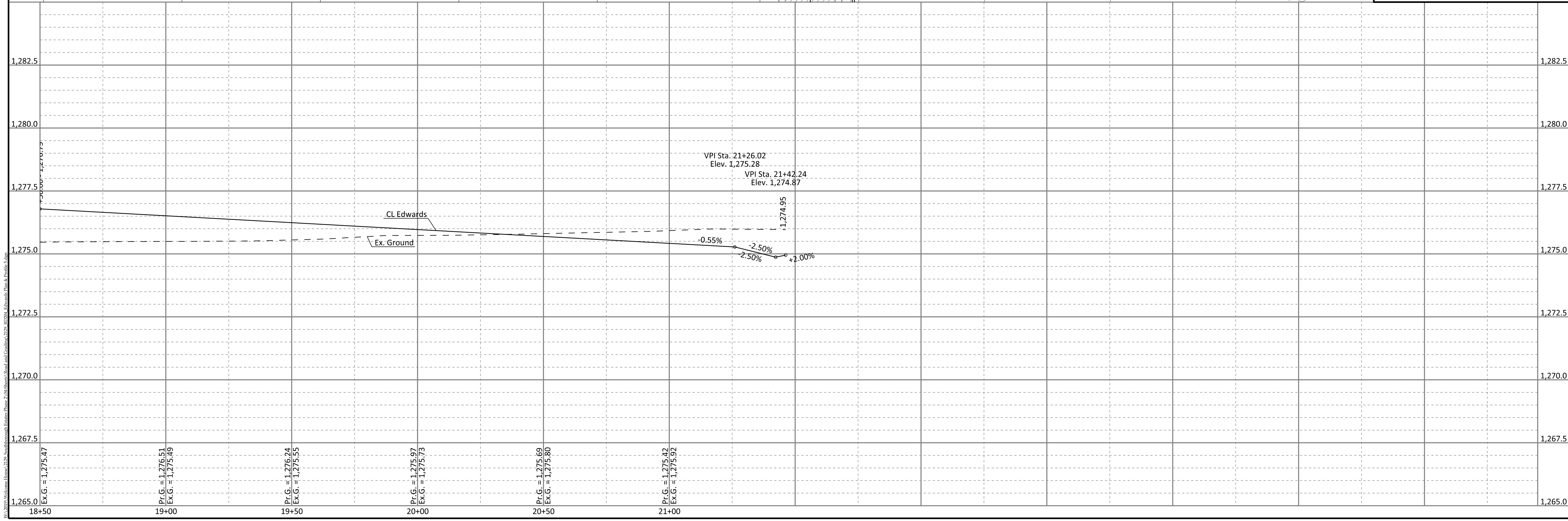
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WICHITA, KANSAS

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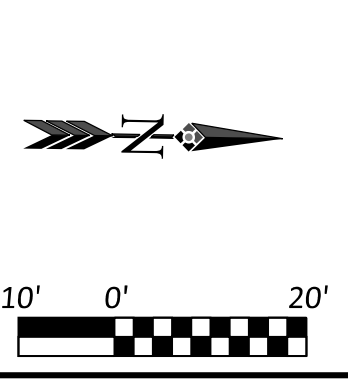
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- 5" Roller Compacted Concrete Pavement
- 5" Drive
- Proposed Driveway
- Proposed Sidewalk



Issue	Date	By	Description
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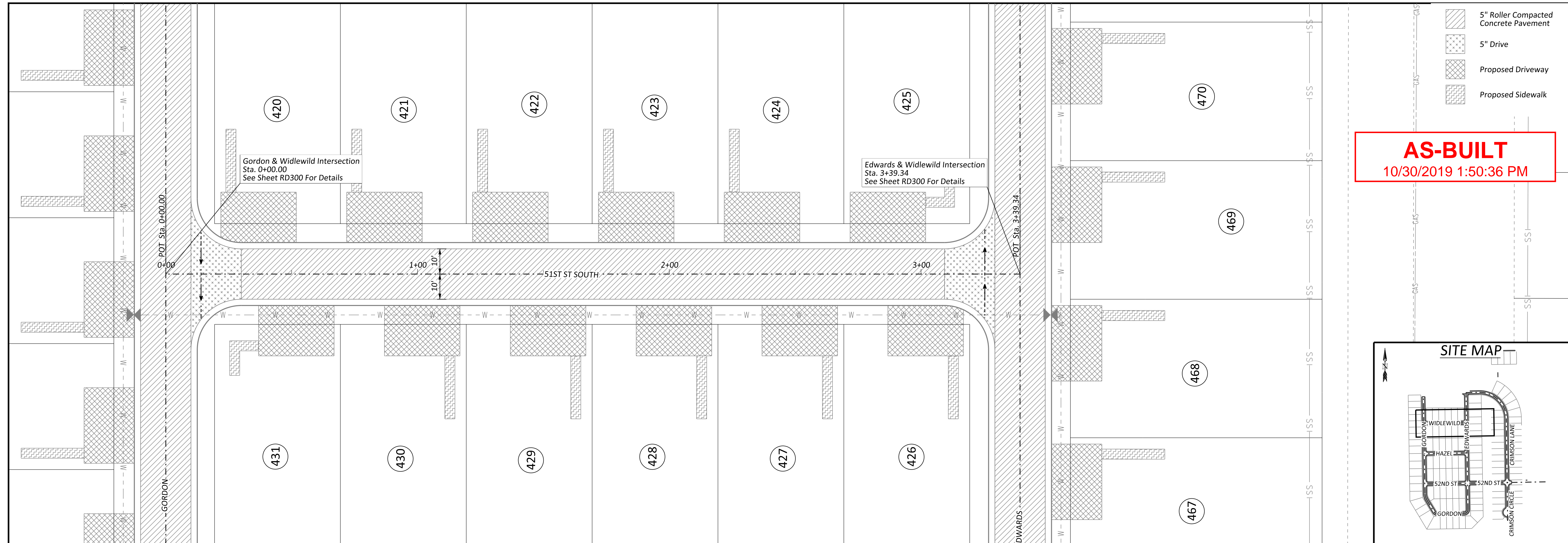
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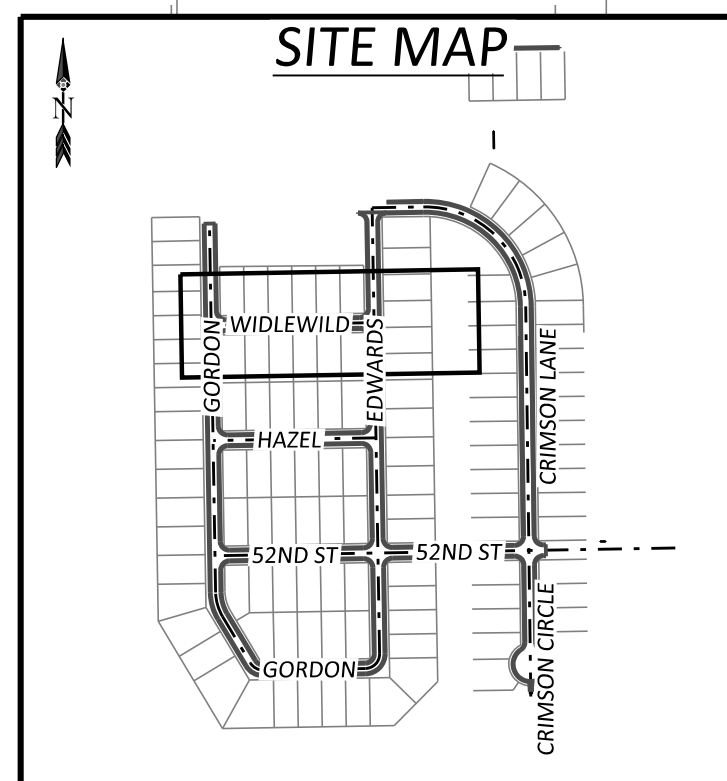
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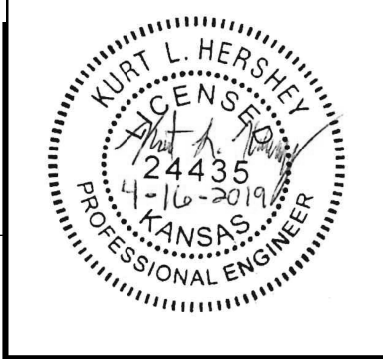
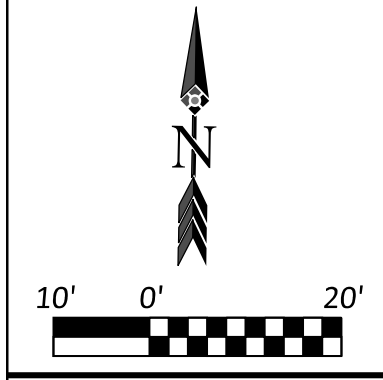
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- 5" Drive
- Proposed Driveway
- Proposed Sidewalk



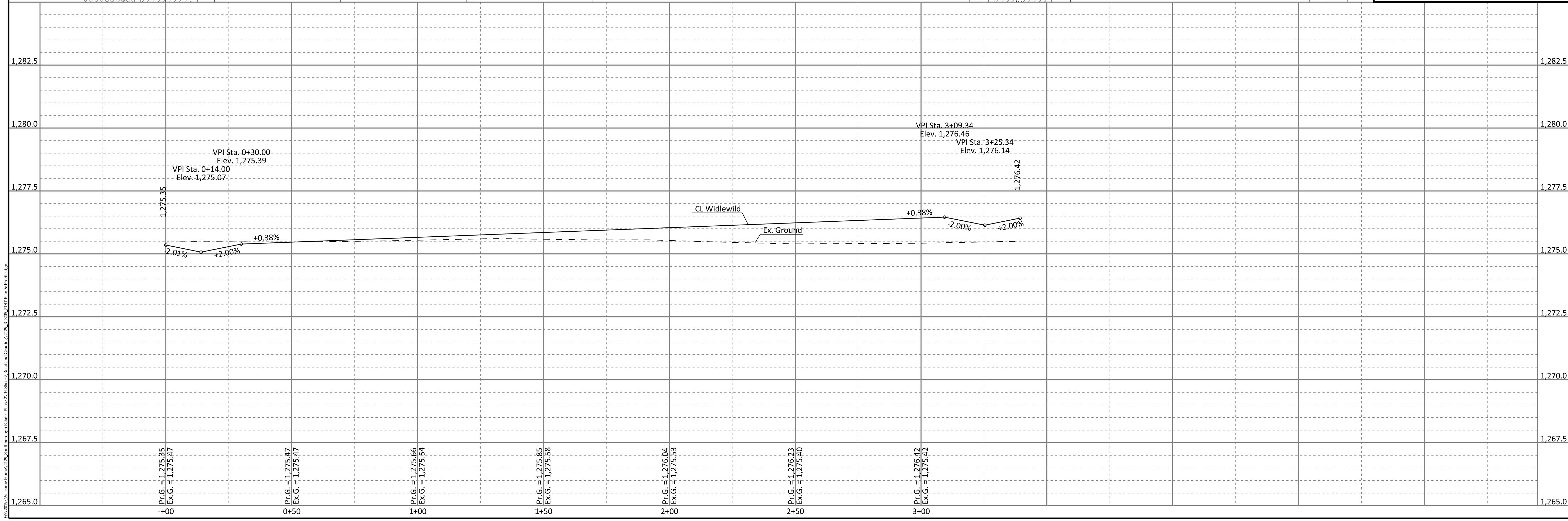
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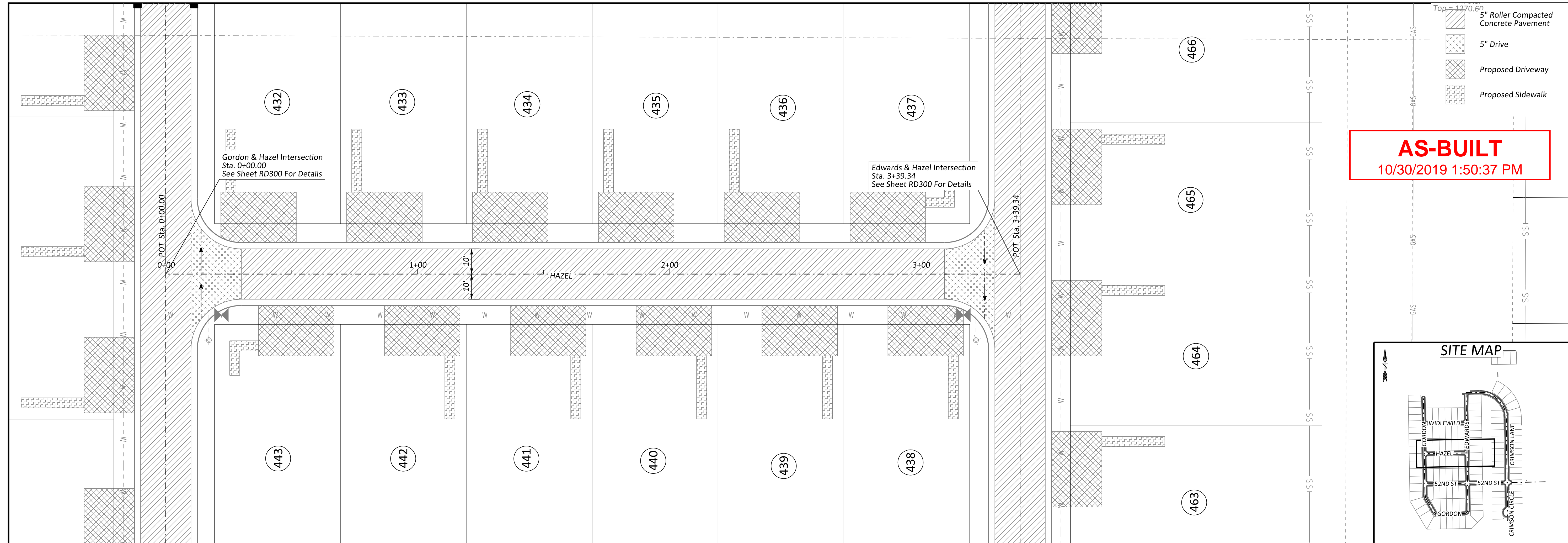


WELCOME HOME
5111 S. Meridian
Wichita, KS 67217

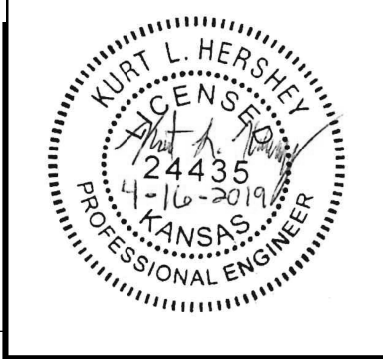
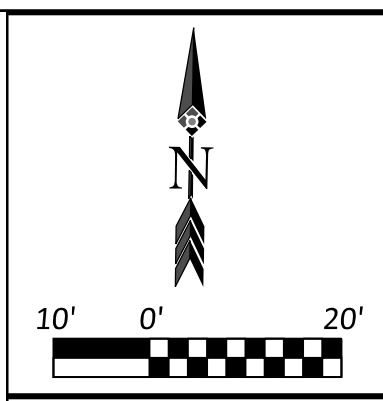
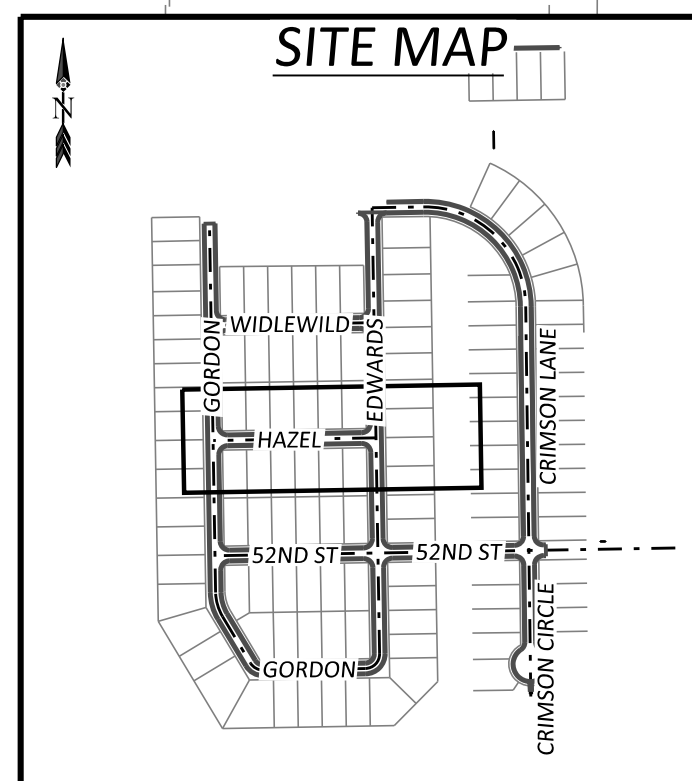
SOUTHBOROUGH ESTATES PHASE 2
51ST ST S
PLAN & PROFILE
WICHITA, KANSAS



Sheet No.
RD205
Project No.
2129



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10/30/2019 1:50:37 PM



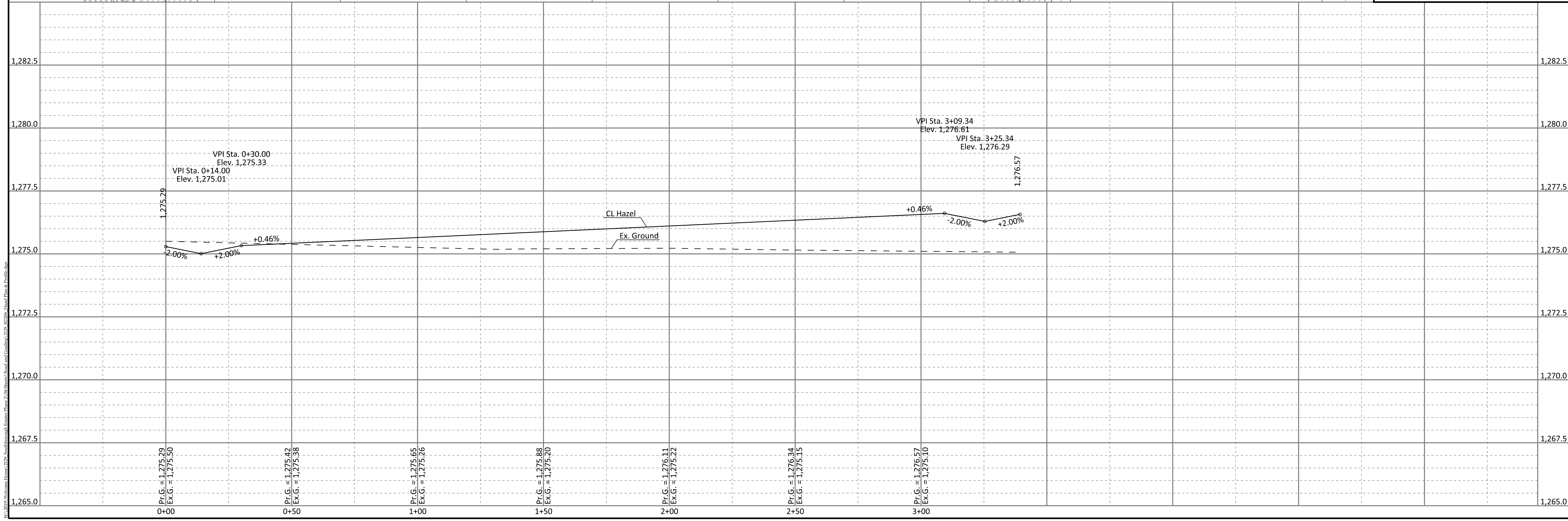
Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Checked By: _____ Date: 4/17/2019 Issue No. 0

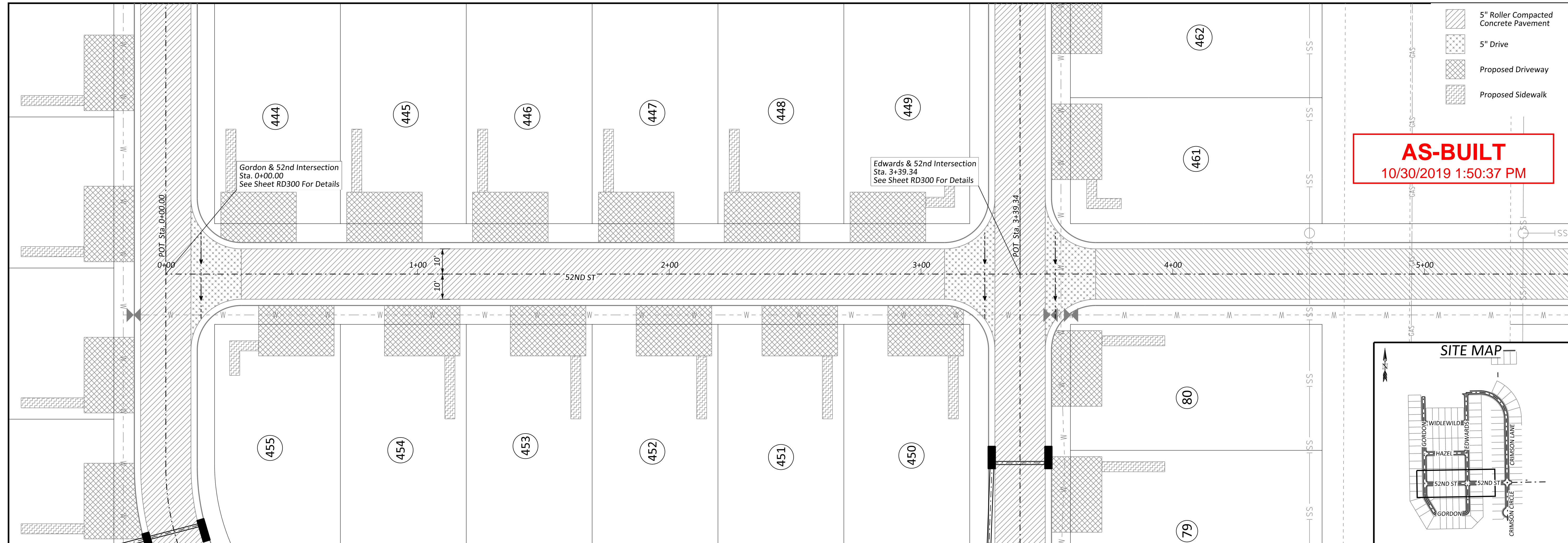


Client: **WELCOME HOME**
5111 S. Meridian
Wichita, KS 67217

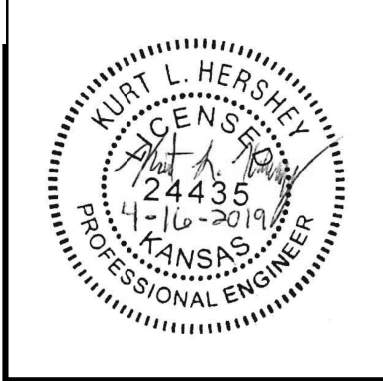
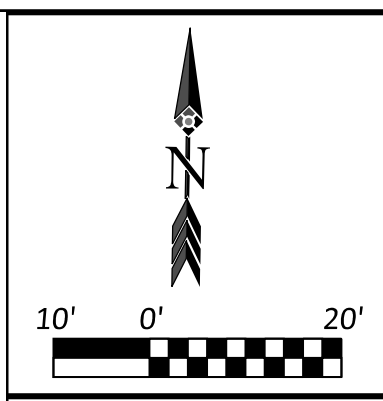
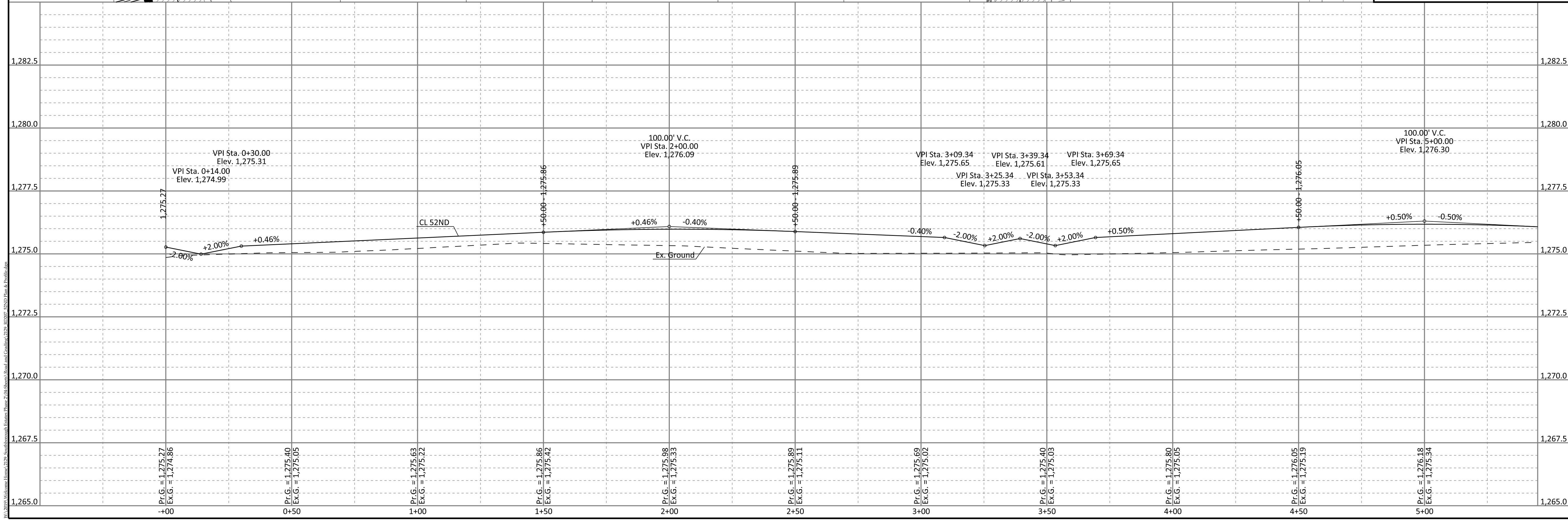
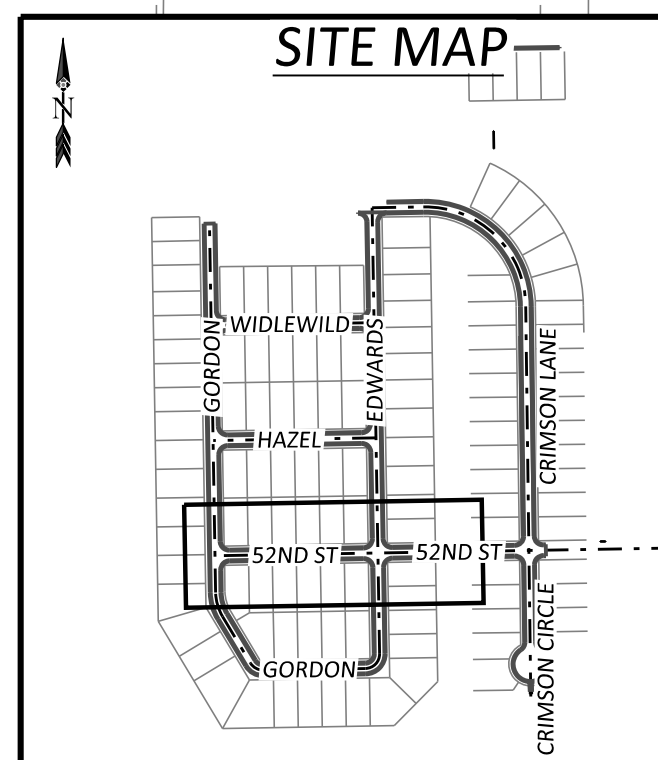
SOUTHBOROUGH ESTATES PHASE 2
HAZEL
PLAN & PROFILE
WICHITA, KANSAS



Sheet No. **RD206**
Project No. **2129**



AS-BUILT
10/30/2019 1:50:37 PM



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

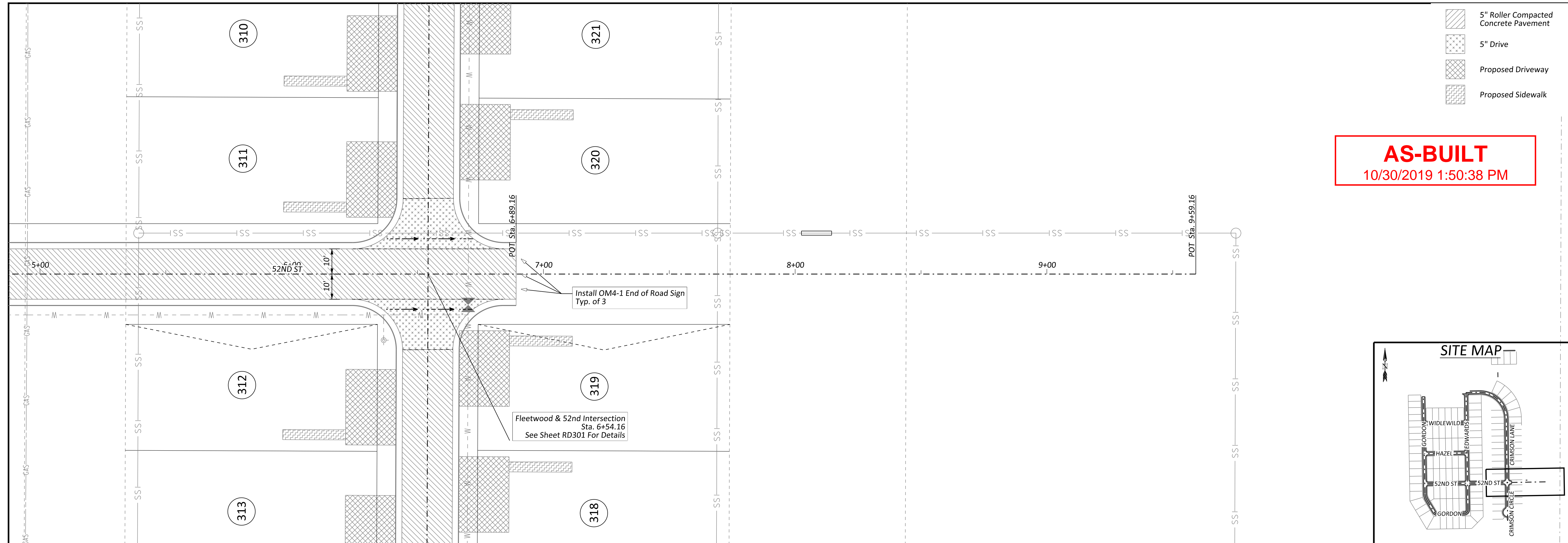
Checked By: _____ Date: 4/17/2019 Issue No. 0



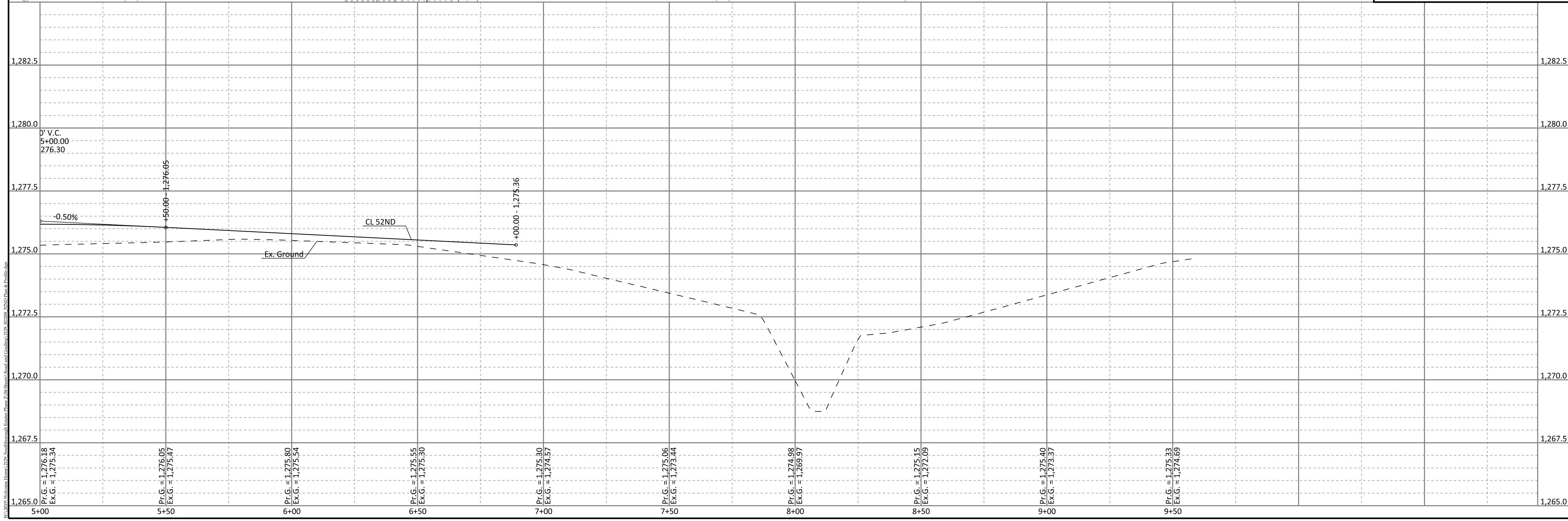
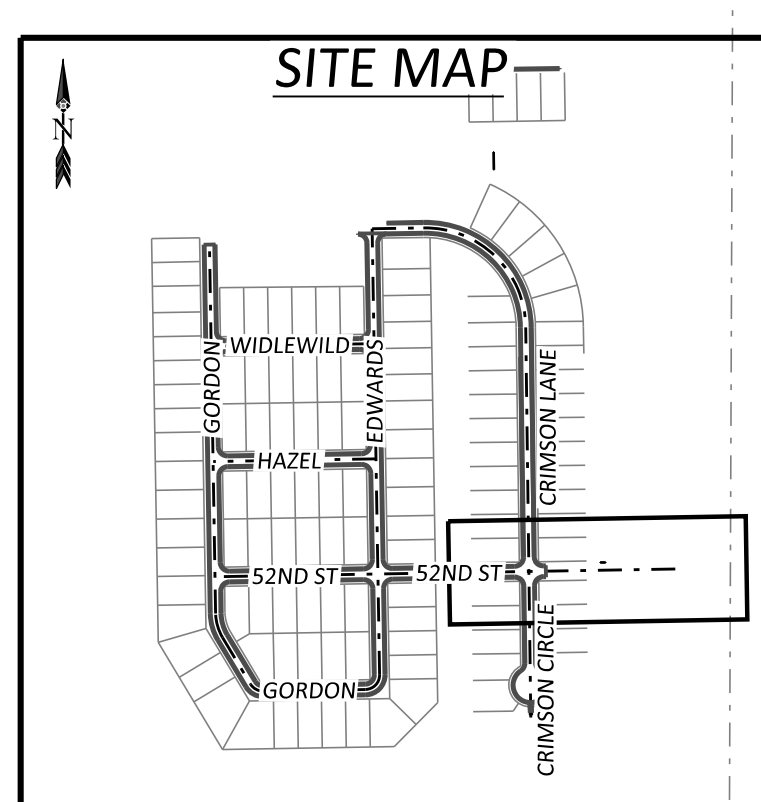
Client: **WELCOME HOME**
5111 S. Meridian,
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
52ND ST
PLAN & PROFILE
WICHITA, KANSAS

Sheet No. **RD207**
Project No. **2129**



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10' 0' 20'



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Date: 4/17/2019
Issue No. 0



ASM
Engineering Consultants
202 E. Broadway Ave., 11th Fl., Box 452 | Wichita, KS 67202
P: (316) 266-9955 | F: (316) 266-9954 | www.asm.com

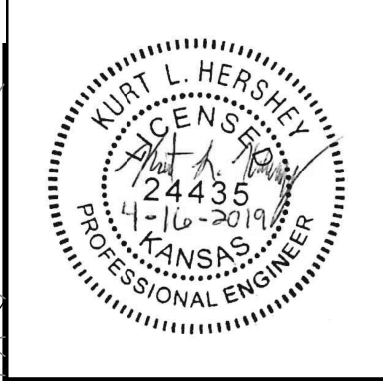
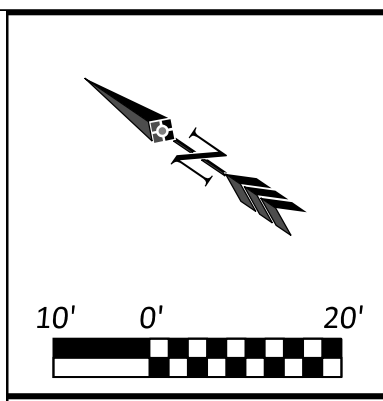
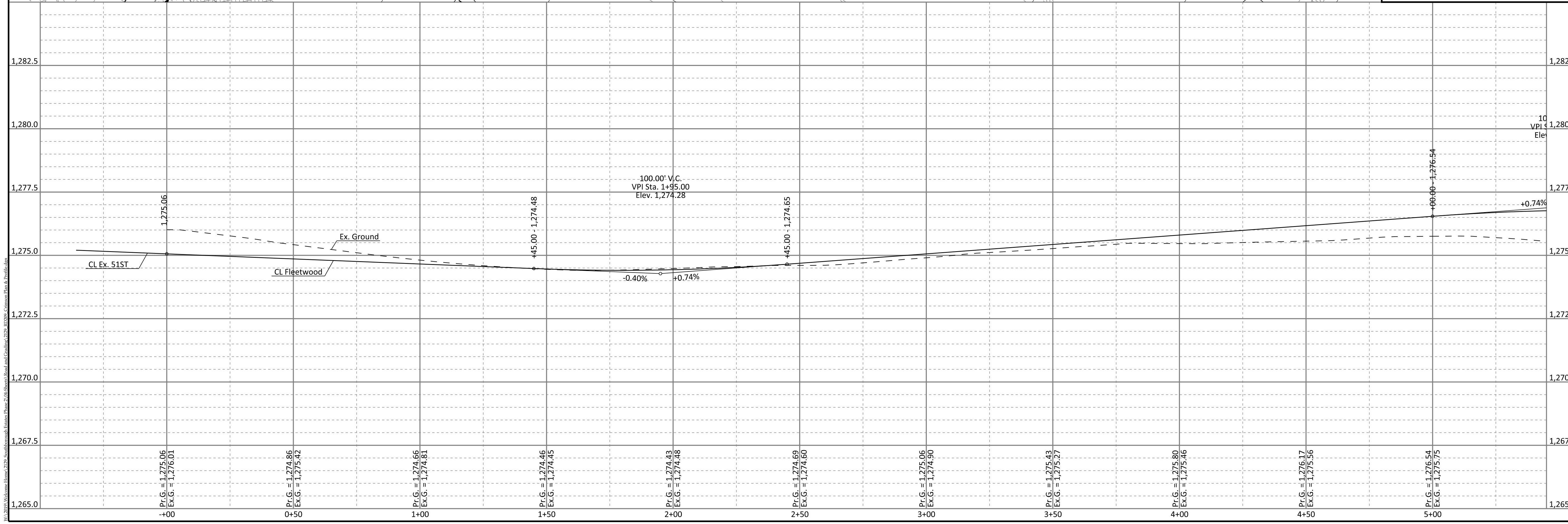
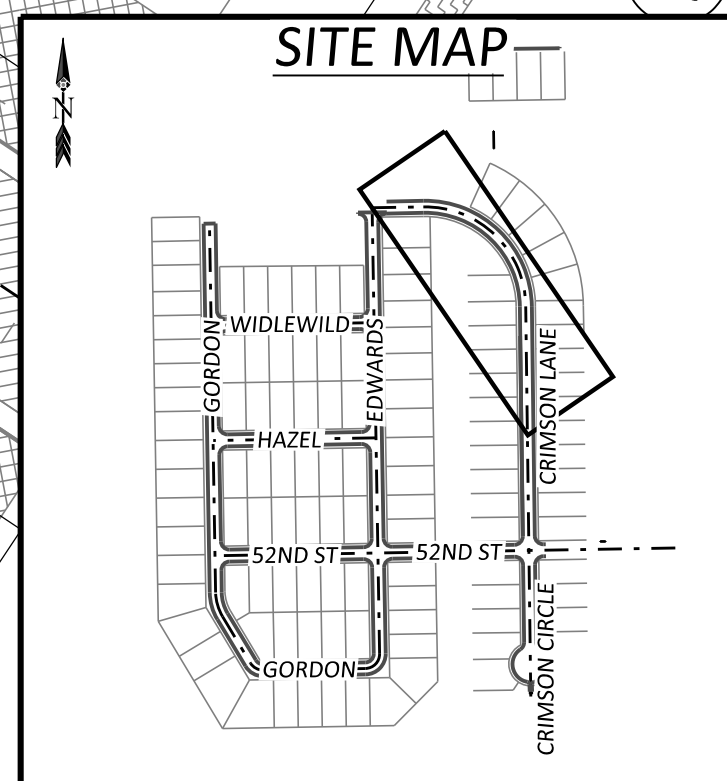
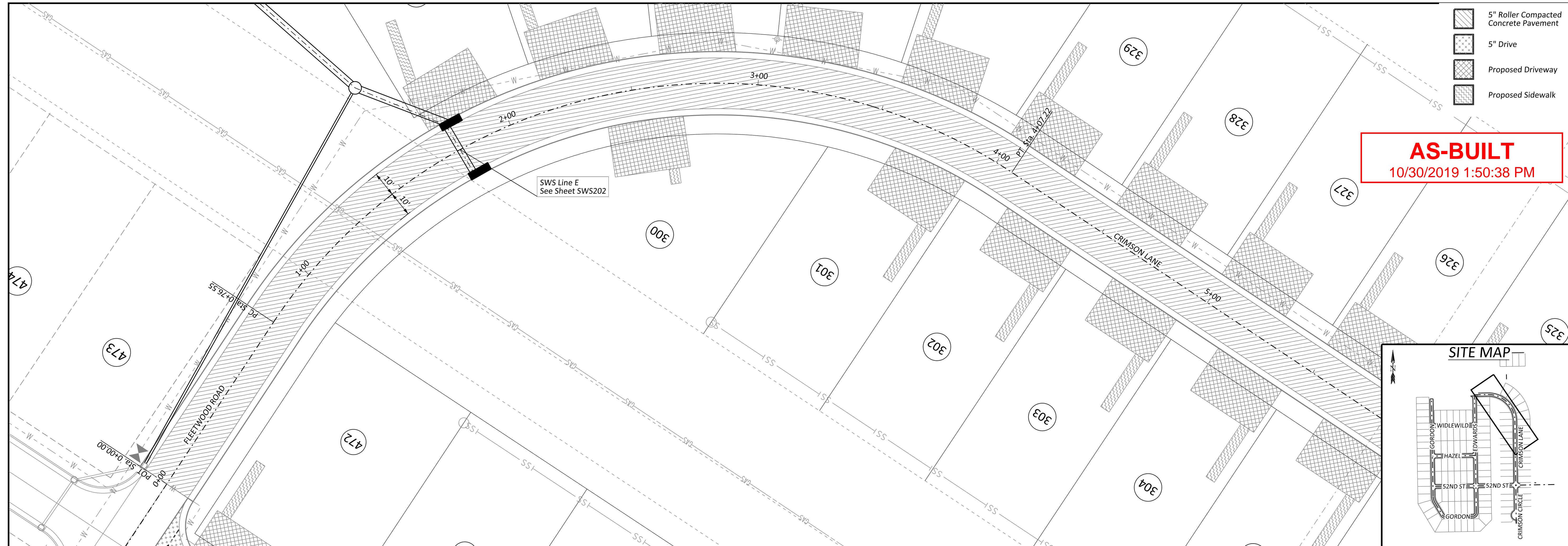
Client: **WELCOME HOME**
5111 S. Meridian,
Wichita, KS 67217

Project: **SOUTHBOROUGH ESTATES PHASE 2**

Sheet No. **RD208**

Project No. **2129**

WICHITA, KANSAS



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Checked By: _____
Date: 4/17/2019
Issue No. 0

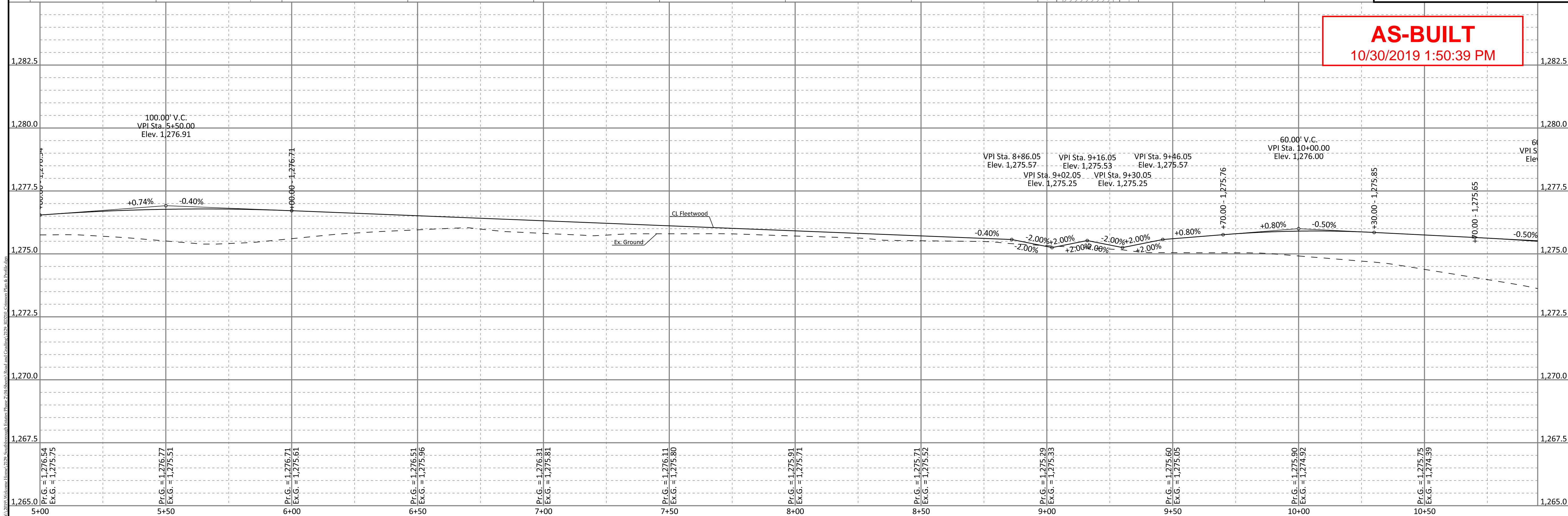
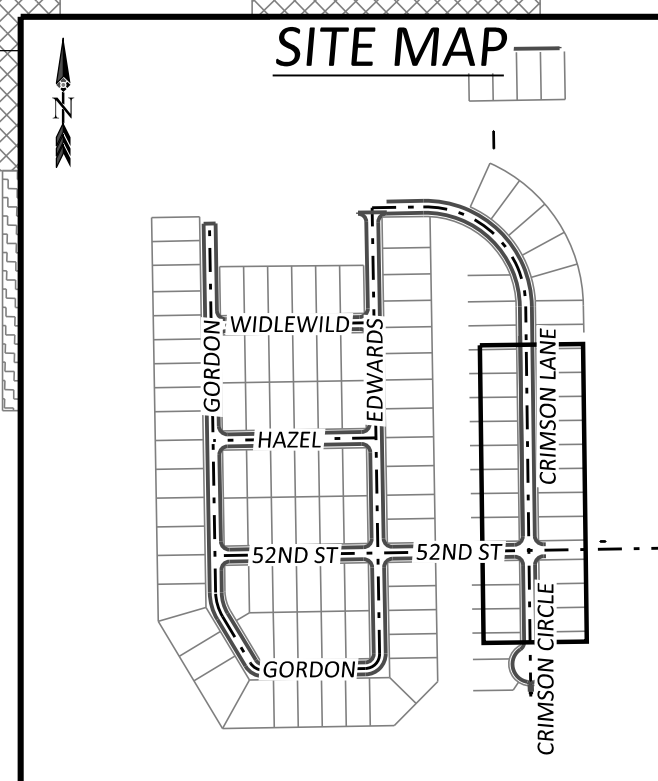
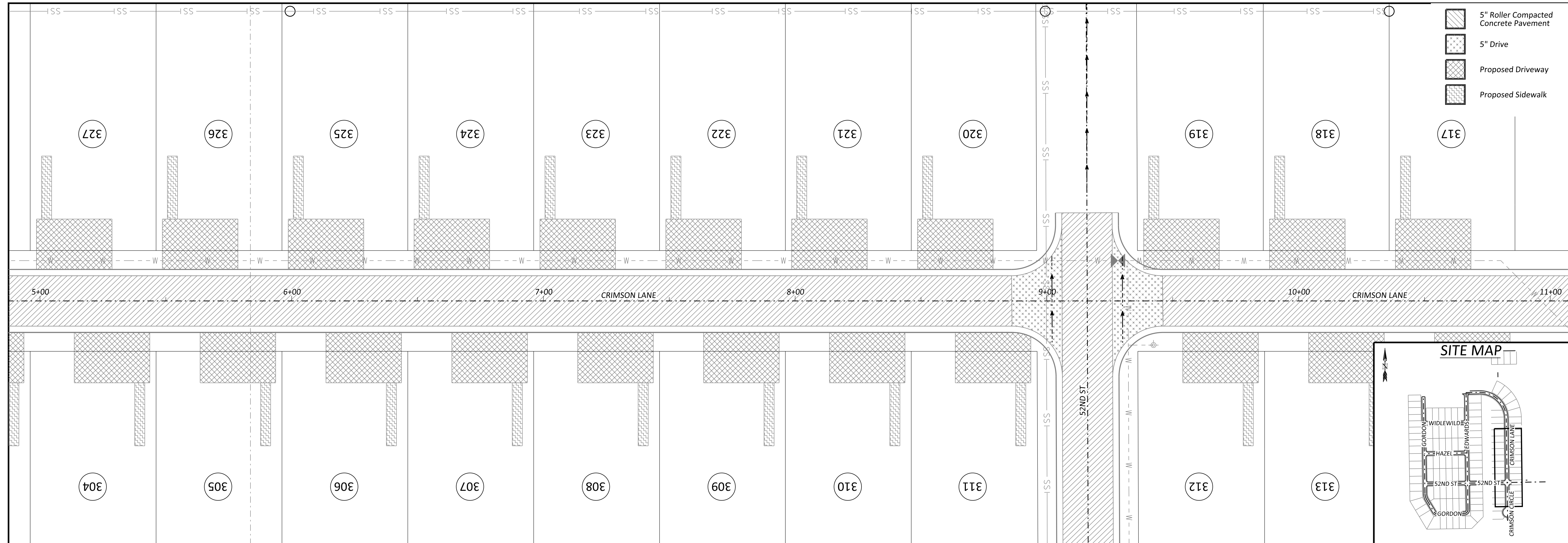


Client:
WELCOME HOME
5111 S. Meridian
Wichita, KS 67217

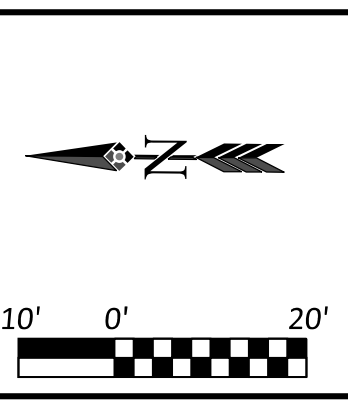
SOUTHBOROUGH ESTATES PHASE 2
CRIMSON
PLAN & PROFILE
WICHITA, KANSAS

Sheet No.
RD209

Project No.
2129



AS-BUILT
10/30/2019 1:50:39 PM



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

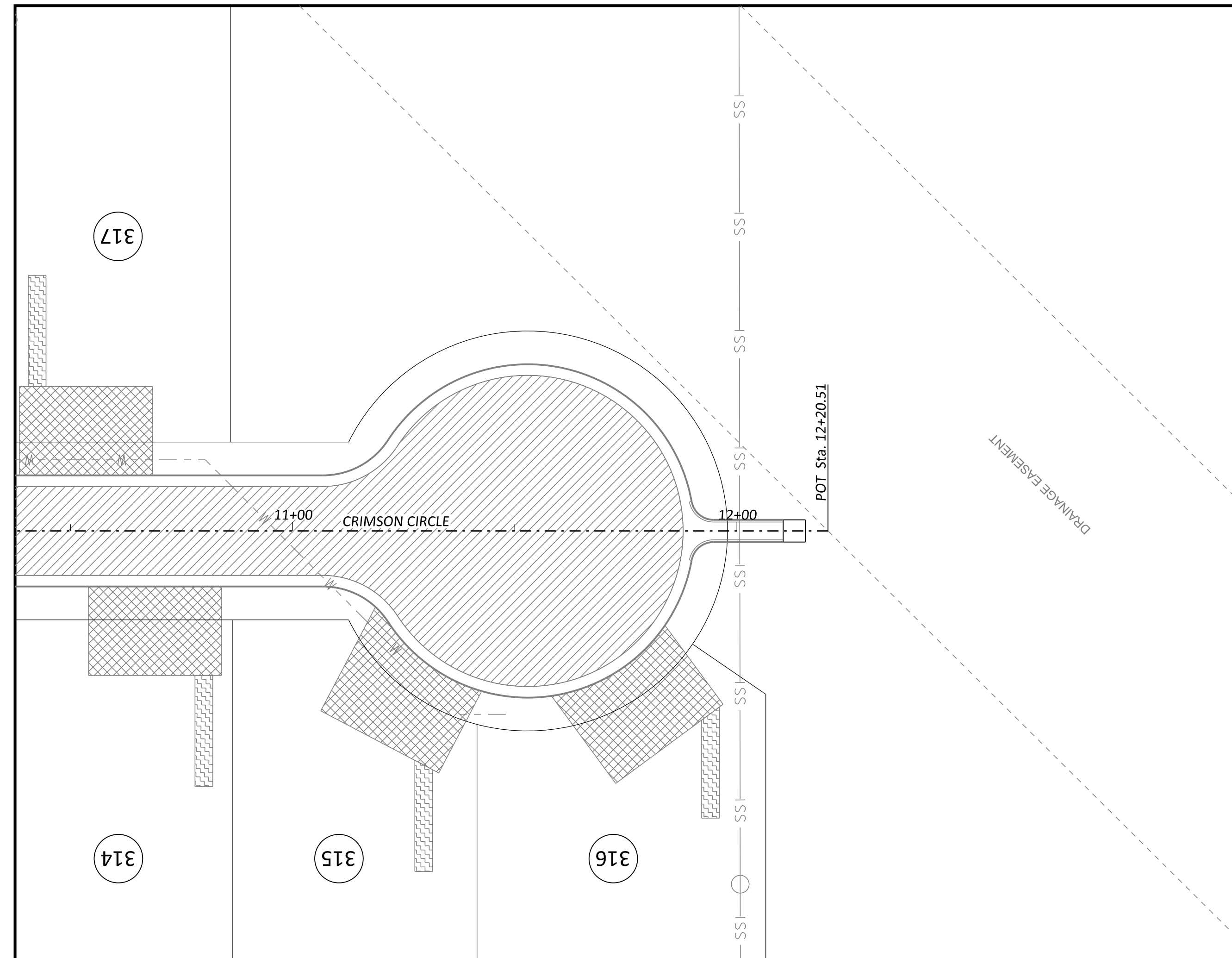
Checked By: _____ Date: 4/17/2019 Issue No. 0



Client: WELCOME HOME
5111 S. Meridian
Wichita, KS 67217

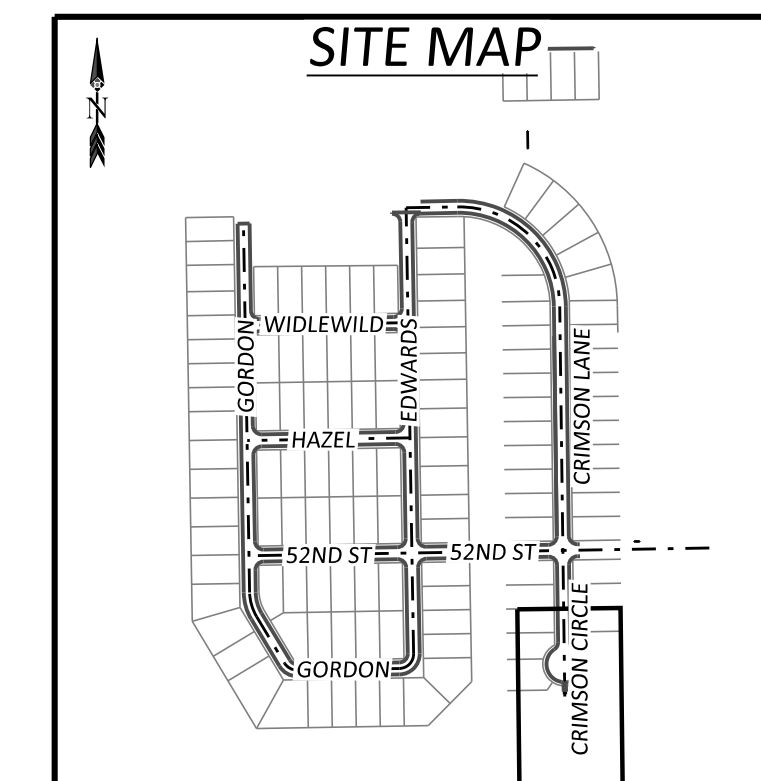
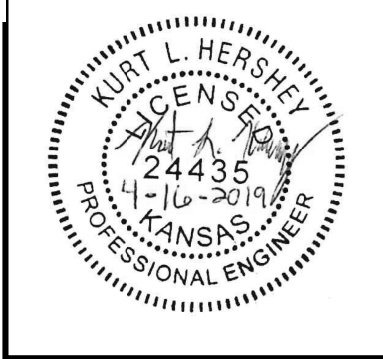
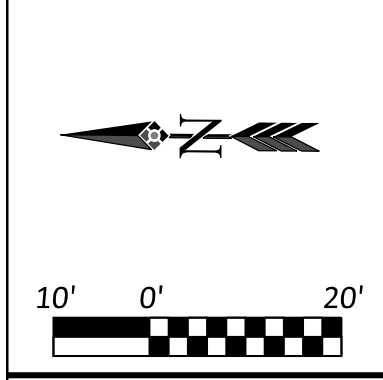
SOUTHBOROUGH ESTATES PHASE 2
CRIMSON PLAN & PROFILE
WICHITA, KANSAS

Sheet No. **RD210**
Project No. **2129**



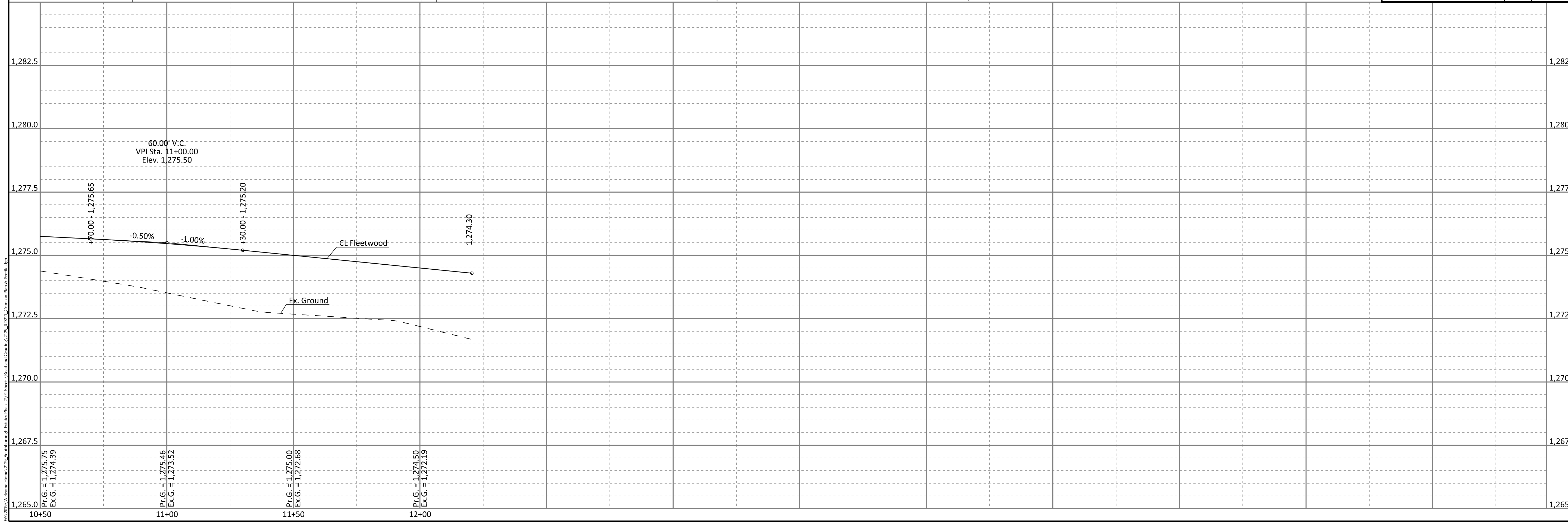
- 5" Roller Compacted Concrete Pavement
- 5" Drive
- Proposed Driveway
- Proposed Sidewalk

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10/30/2019 1:50:39 PM



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

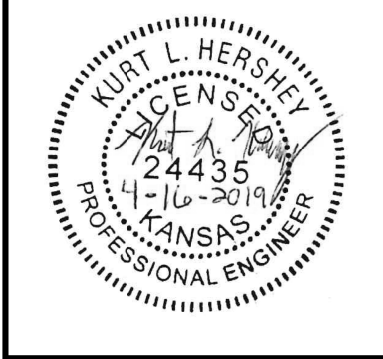
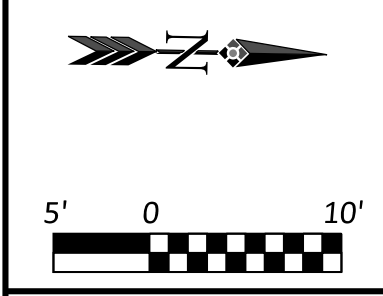
Checked By: _____ Date: 4/17/2019 Issue No. 0



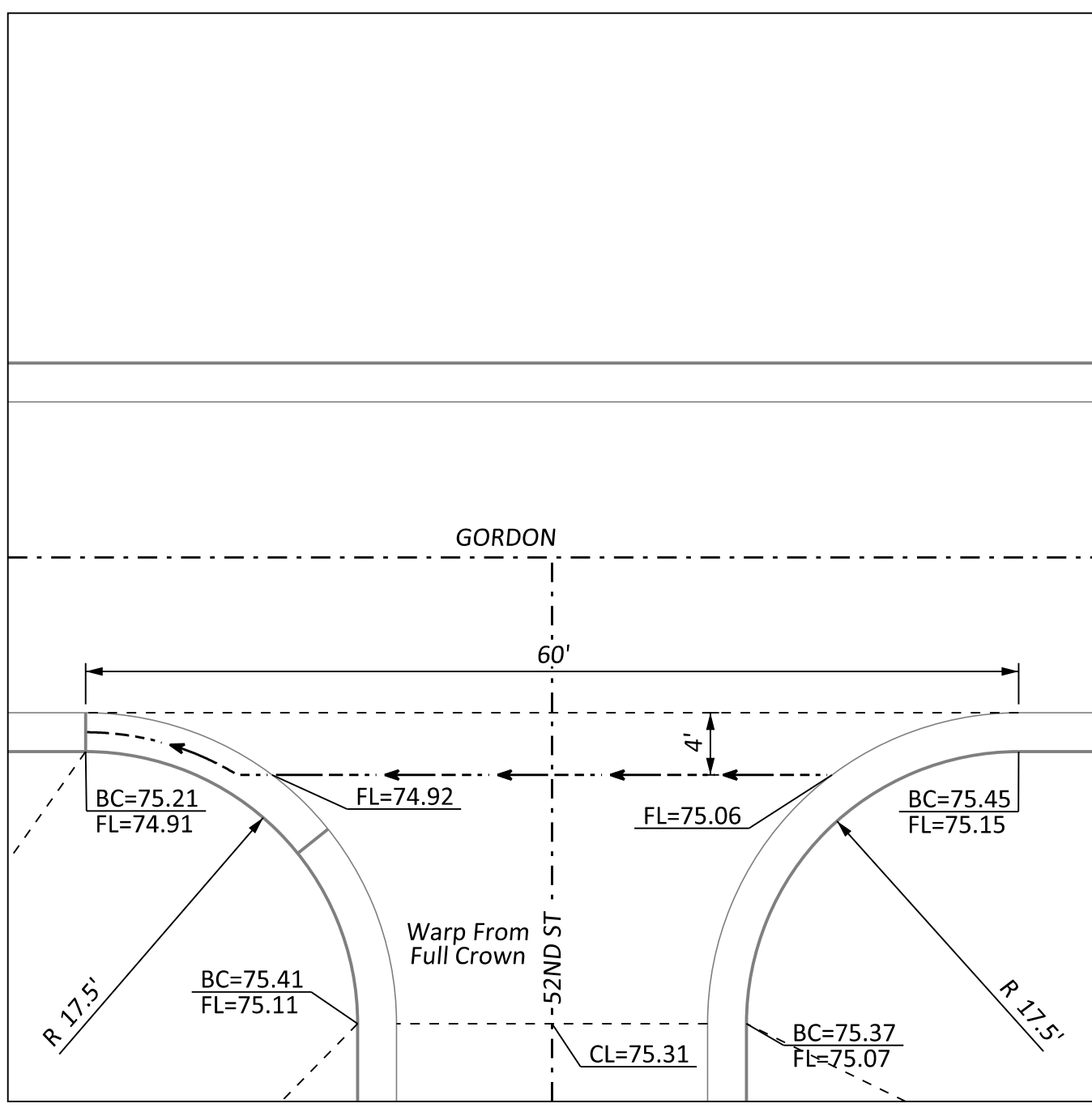
Client: **WELCOME HOME**
5111 S. Meridian
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
CRIMSON
PLAN & PROFILE
WICHITA, KANSAS

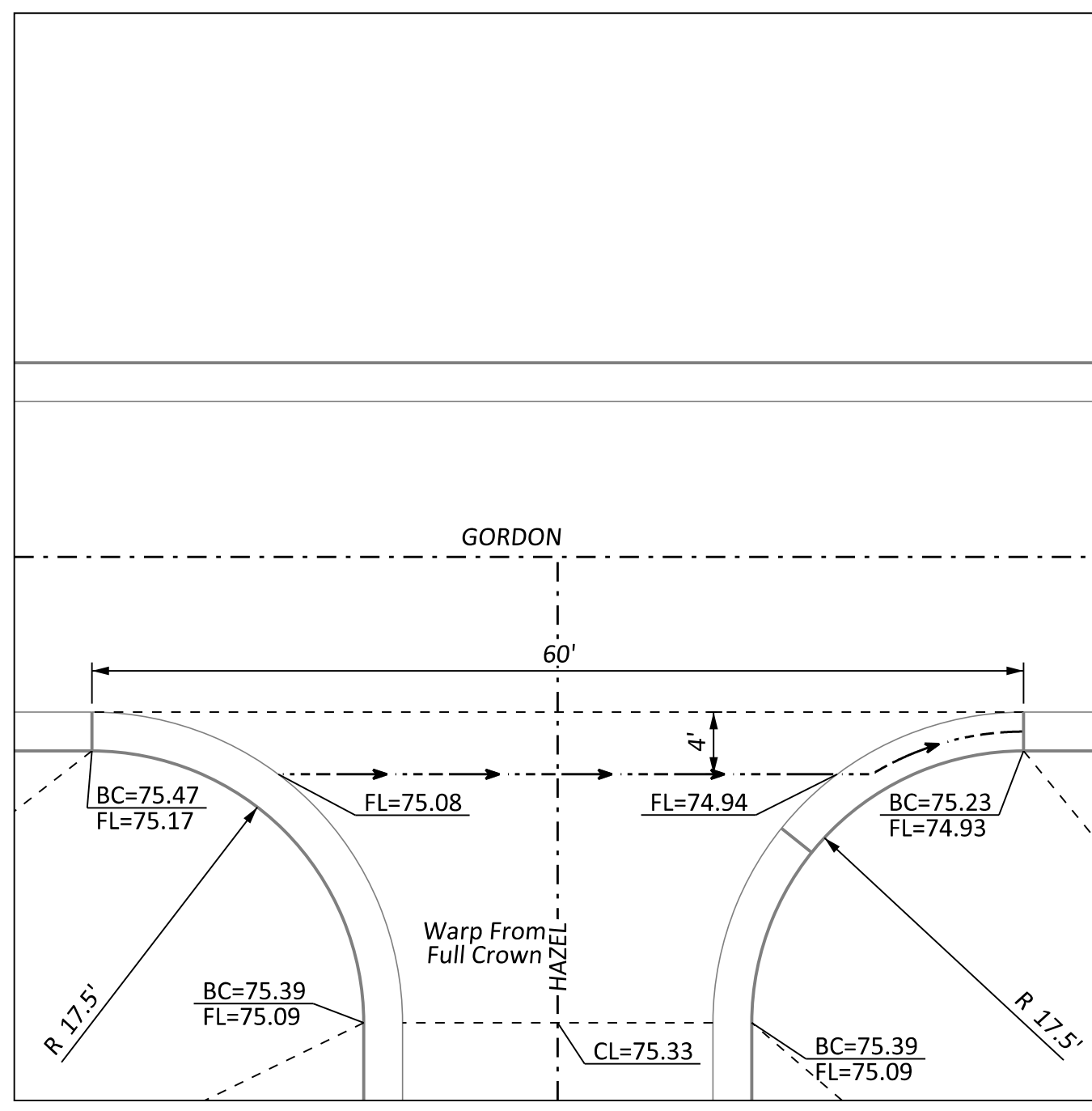
Sheet No.
RD211
Project No.
2129



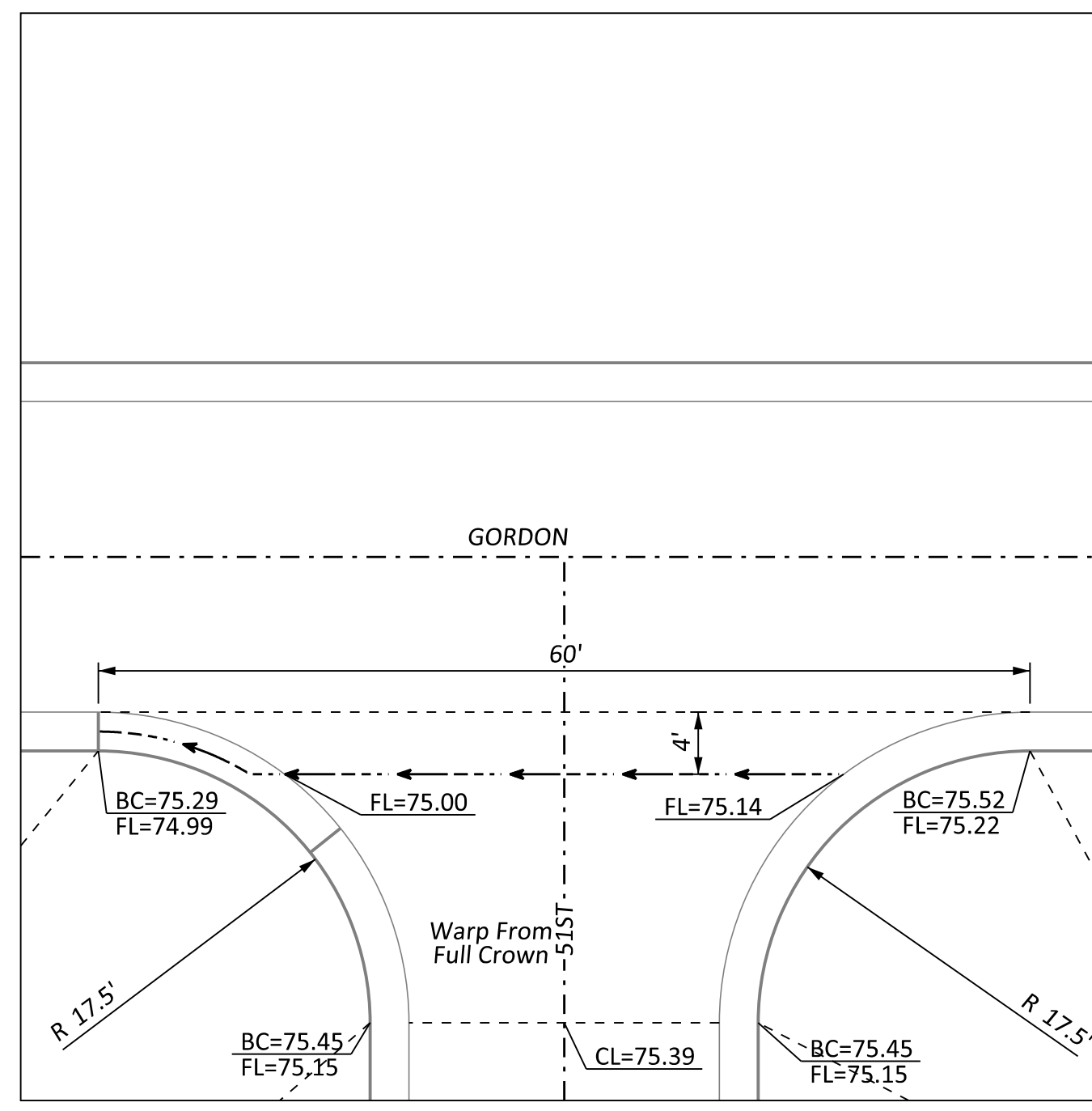
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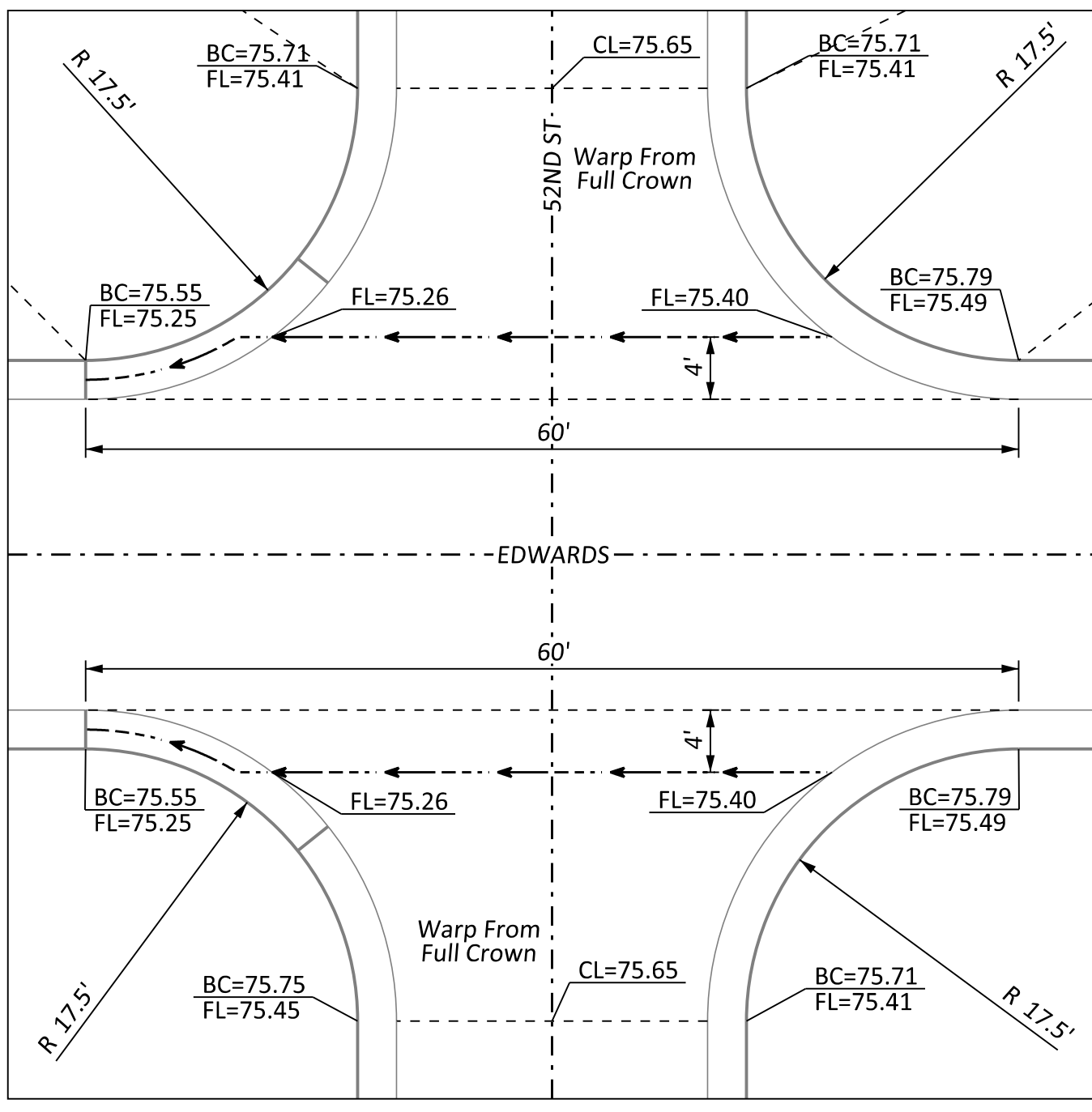
GORDON & 52ND



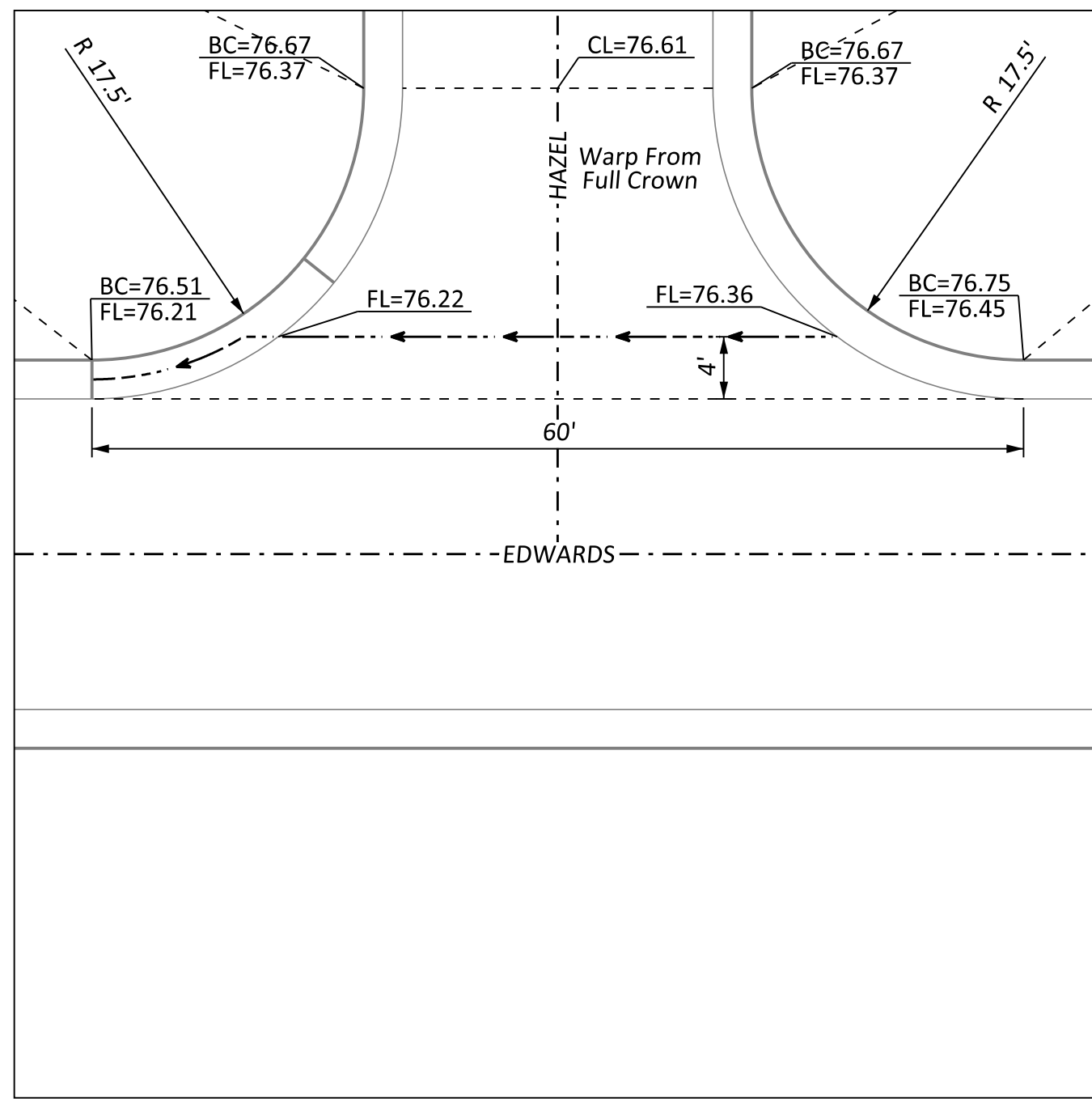
GORDON & HAZEL



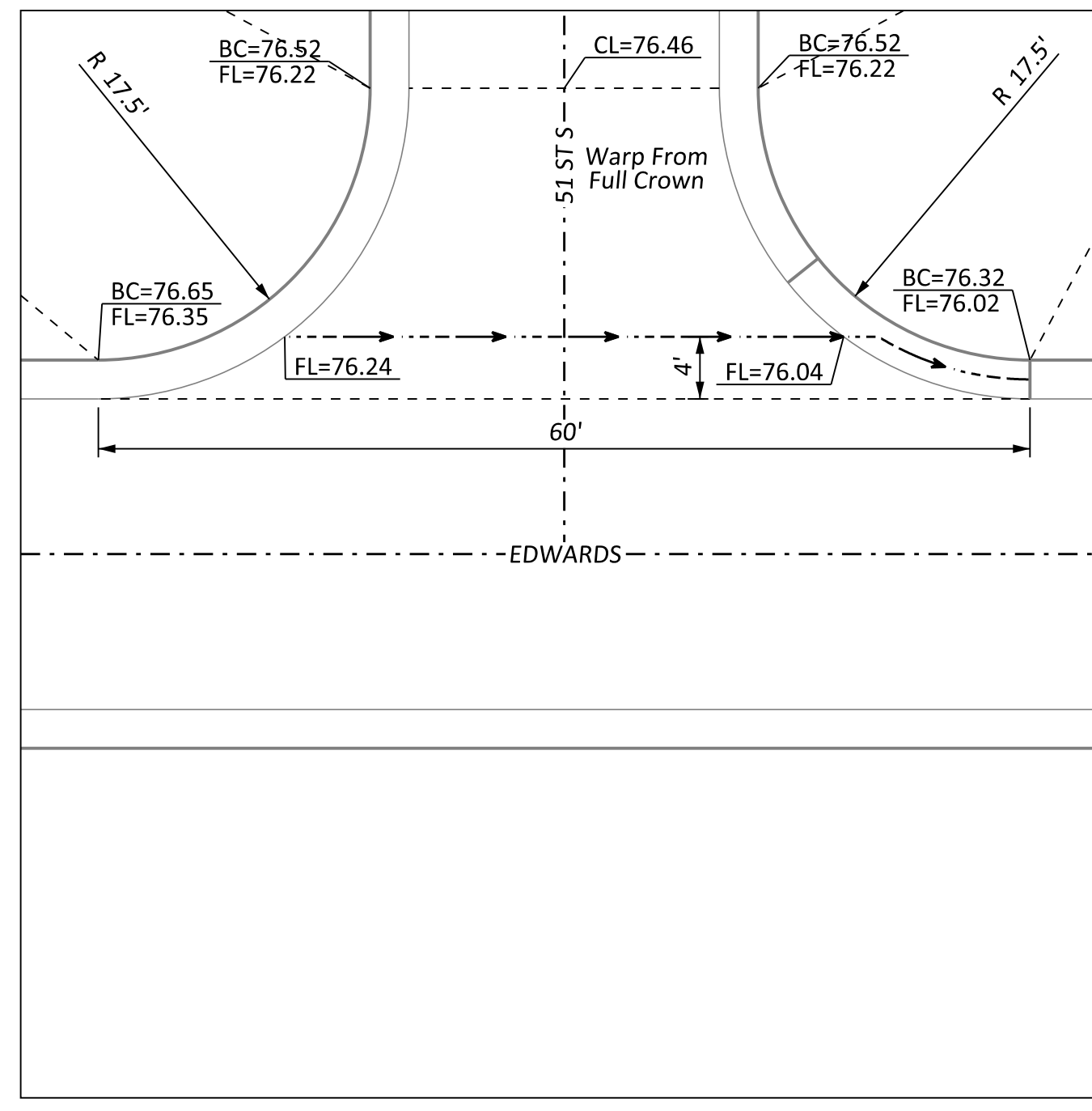
GORDON & 51ST



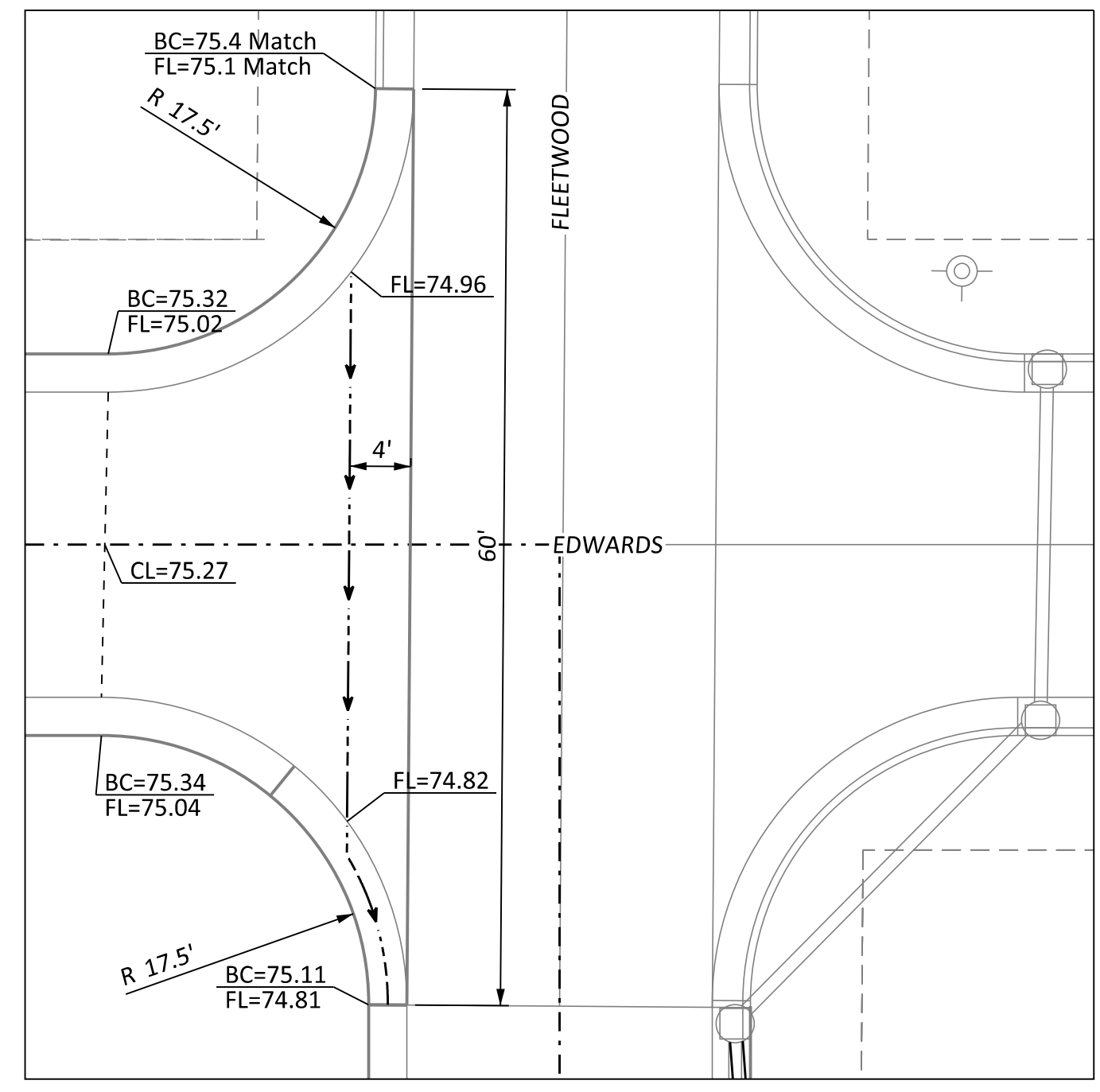
EDWARDS & 52ND



EDWARDS & HAZEL



EDWARDS & 51ST



EDWARDS & FLEETWOOD

Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Drawn By:	BGN	Date:	4/17/2019
Checked By:	KLH	Issue No.:	0

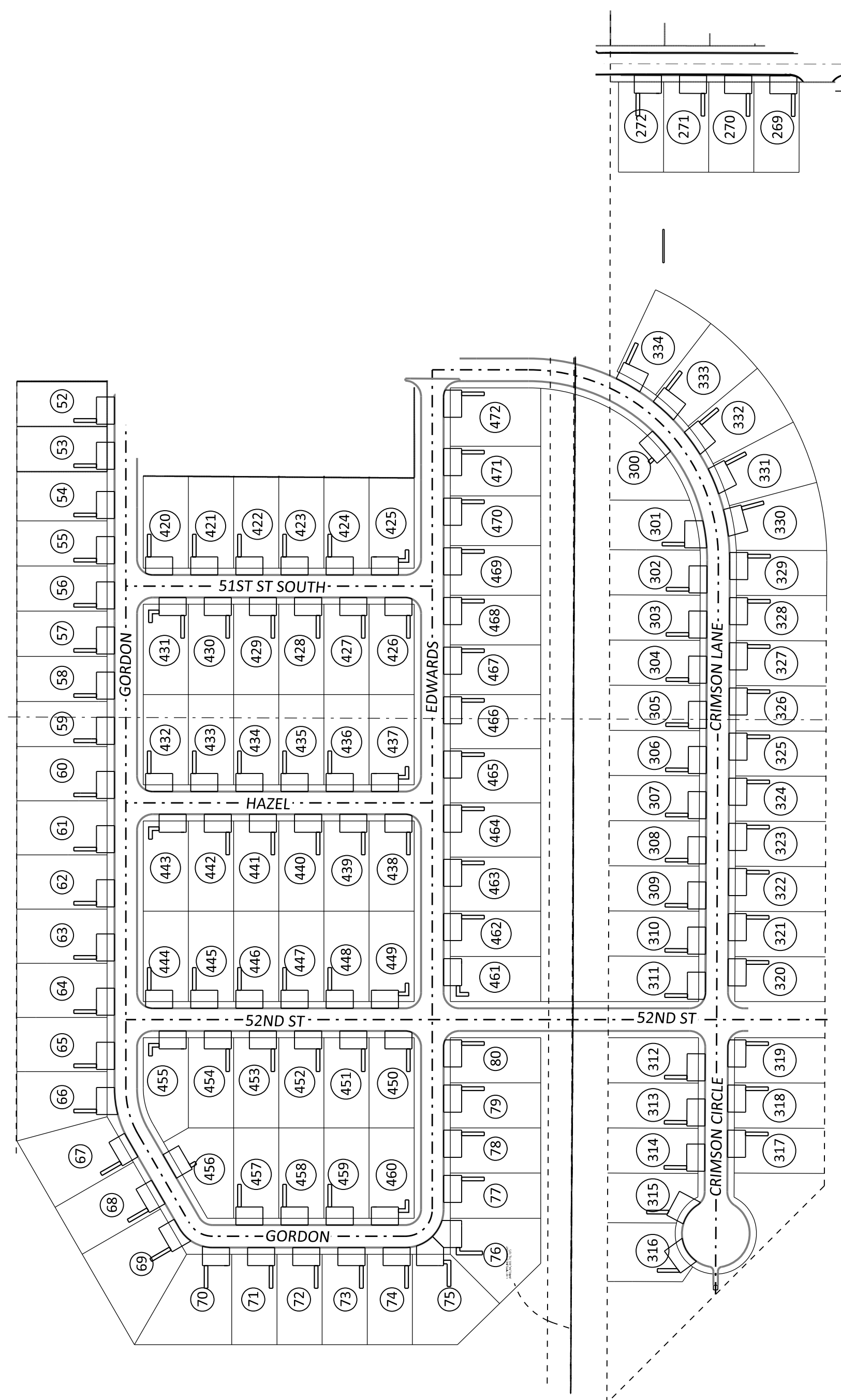


Client: **WELCOME HOME**
5111 S. Meridian,
Wichita, KS 67217

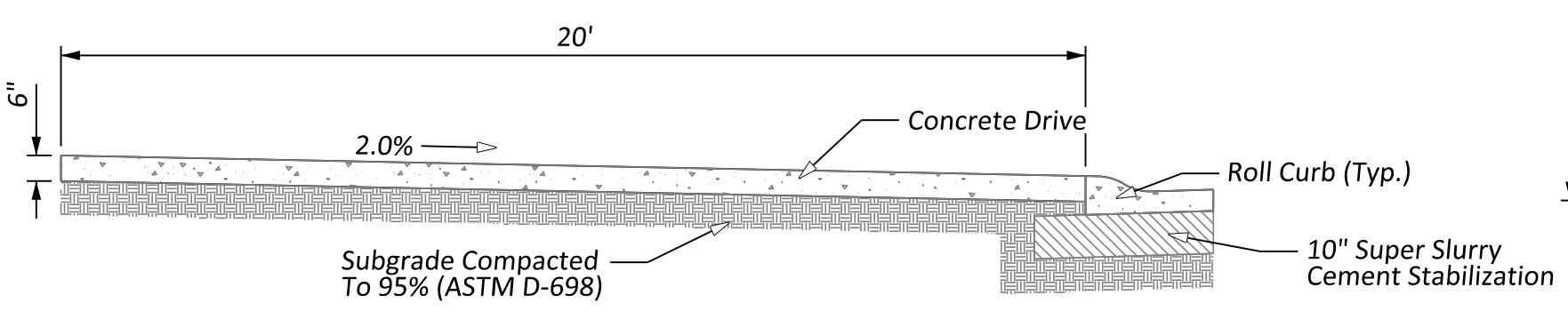
SOUTHBOROUGH ESTATES PHASE 2
INTERSECTION GRADING PLAN
WICHITA, KANSAS

Sheet No.
RD300
Project No.
2129

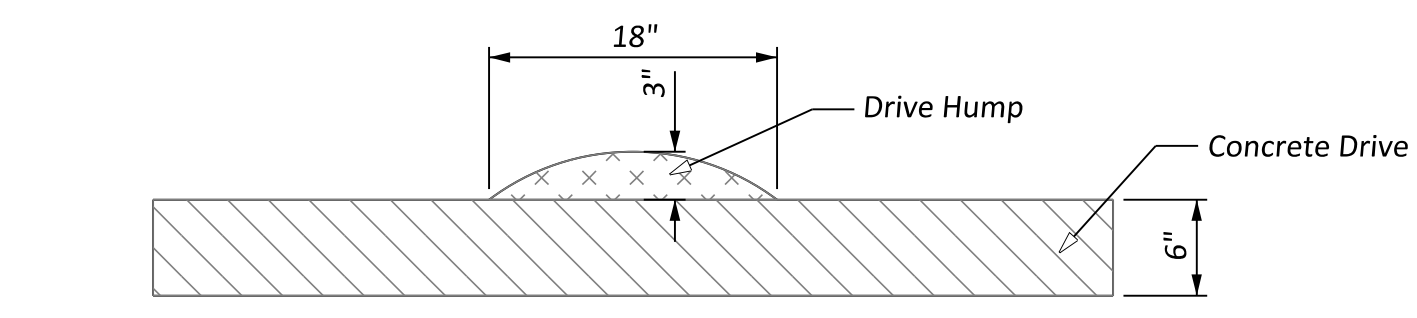
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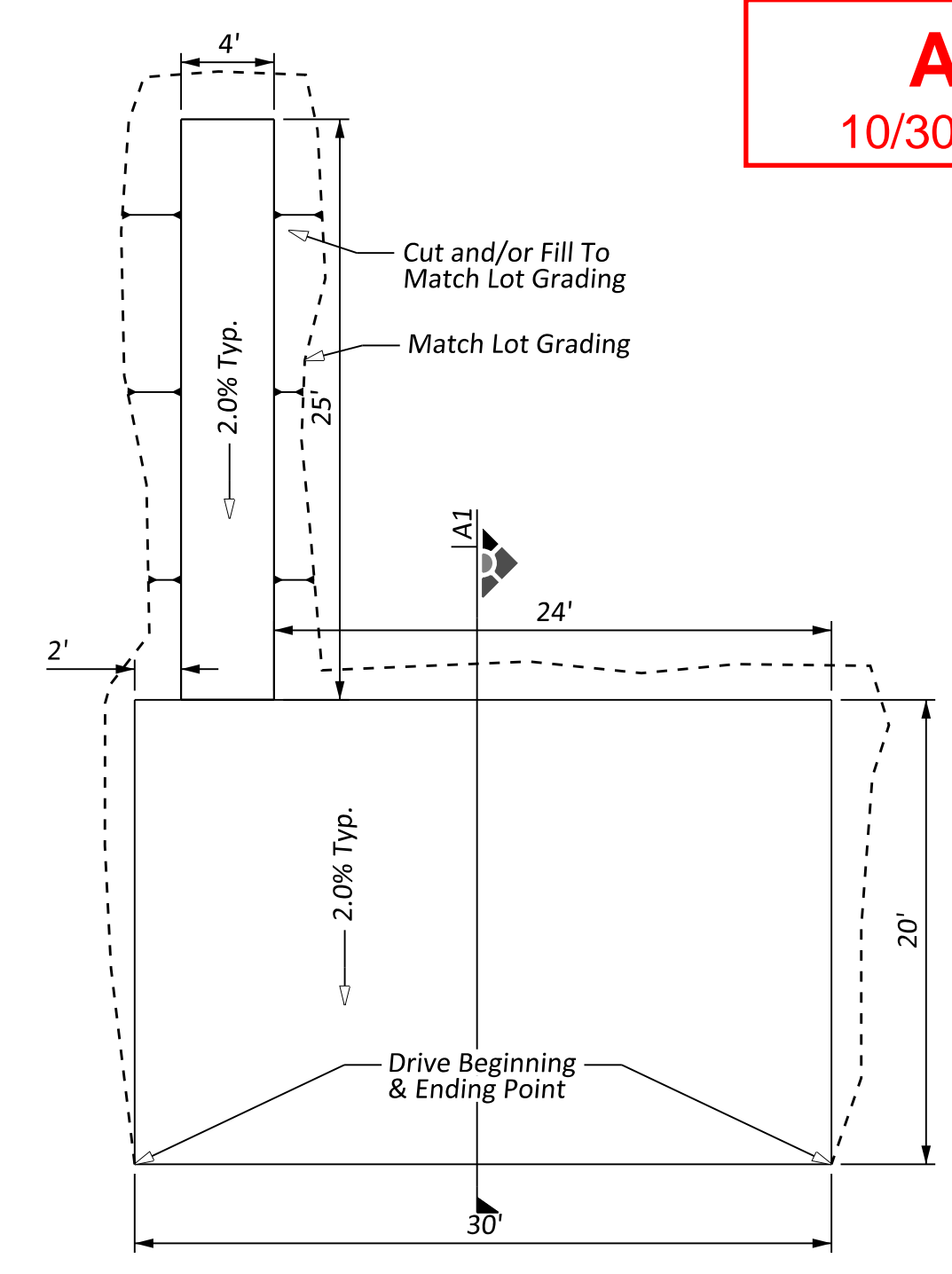
DRIVEWAY SCHEMATIC



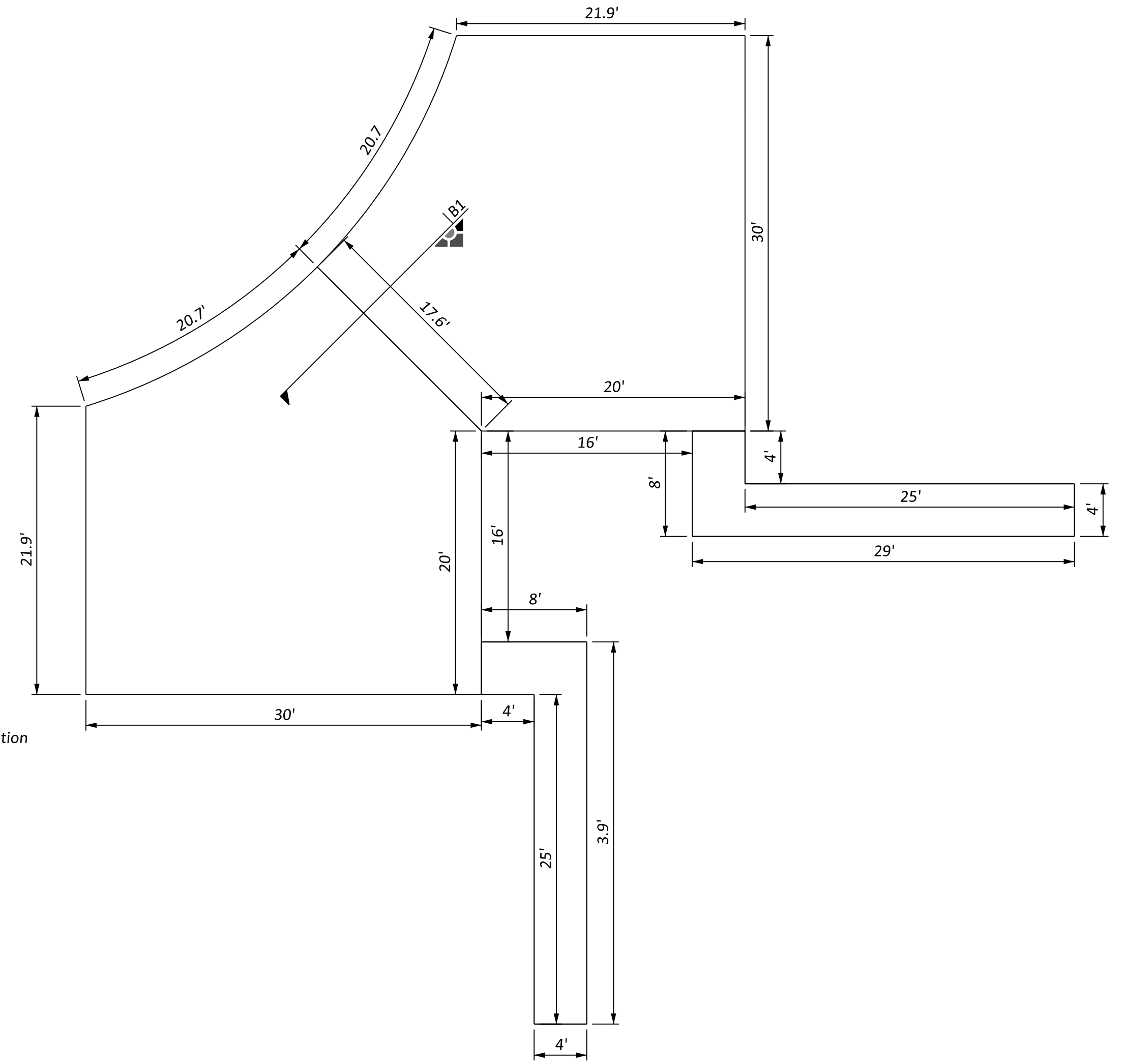
A1 TYPICAL DRIVEWAY CROSS-SECTION



B1 LOT 75 AND 76 DIVIDING HUMPS



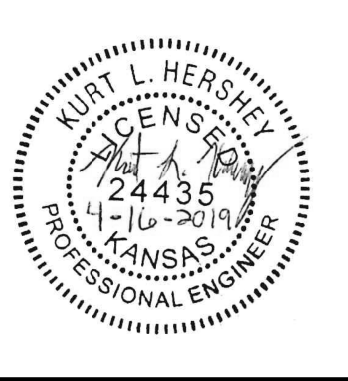
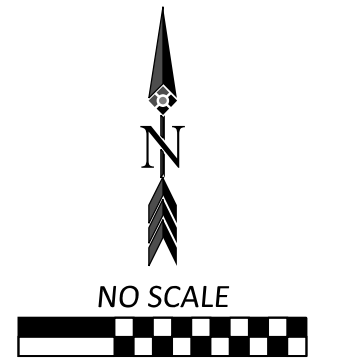
TYPICAL DRIVEWAY DIMENSIONS



LOT 75 AND 76 DIMENSIONS

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10/30/2019 1:50:41 PM

Lot	Drive Beginning Point			Drive Ending Point			Drive Area (Sq. Yds.)	Sidewalk Area (Sq. Yds.)	Typical?
	Northing	Easting	Elevation	Northing	Easting	Elevation			
52	1654708.9395	1638366.8786	1274.36	1654678.9438	1638367.3810	1274.28	66.7	11.1	Yes
53	1654658.9466	1638367.7159	1274.32	1654628.9508	1638368.2183	1274.58	66.7	11.1	Yes
54	1654604.3275	1638368.6307	1274.95	1654574.3317	1638369.1331	1275.35	66.7	11.1	Yes
55	1654554.3345	1638369.4681	1275.49	1654524.3387	1638369.9705	1275.51	66.7	11.1	Yes
56	1654504.3415	1638370.3054	1275.43	1654474.3457	1638370.8078	1275.31	66.7	11.1	Yes
57	1654454.3485	1638371.1427	1275.23	1654424.3527	1638371.6451	1275.11	66.7	11.1	Yes
58	1654404.3555	1638371.9800	1275.03	1654374.3597	1638372.4824	1274.96	66.7	11.1	Yes
59	1654354.3625	1638372.8174	1274.98	1654324.3668	1638373.3198	1275.09	66.7	11.1	Yes
60	1654294.3710	1638373.8221	1275.21	1654264.3752	1638374.3245	1275.33	66.7	11.1	Yes
61	1654234.3794	1638374.8269	1275.45	1654204.3836	1638375.3293	1275.57	66.7	11.1	Yes
62	1654174.3878	1638375.8317	1275.68	1654144.3920	1638376.3341	1275.72	66.7	11.1	Yes
63	1654114.3962	1638376.8365	1275.69	1654084.4004	1638377.3389	1275.59	66.7	11.1	Yes
64	1654054.4046	1638377.8413	1275.47	1654024.4088	1638378.3437	1275.35	66.7	11.1	Yes
65	1653994.4130	1638378.8461	1275.23	1653964.4172	1638379.3485	1275.11	66.7	11.1	Yes
66	1653944.4200	1638379.8509	1275.03	1653914.4252	1638380.3533	1274.97	70.5	11.1	No
67	1653893.7804	1638391.6221	1275.00	1653868.0554	1638407.0566	1275.12	66.7	11.1	Yes
68	1653842.3794	1638422.4617	1275.27	1653816.6544	1638437.8962	1275.42	66.7	11.1	Yes
69	1653799.5044	1638448.1859	1275.52	1653775.9263	1638467.1987	1275.64	69.4	11.1	No
70	1653770.2567	1638479.9372	1275.69	1653769.2114	1638509.9589	1275.82	67.2	11.1	No
71	1653769.5464	1638529.9561	1275.92	1653770.0487	1638559.9519	1276.07	66.7	11.1	Yes
72	1653770.3837	1638579.9491	1276.17	1653770.8861	1638609.9449	1276.27	66.7	11.1	Yes
73	1653771.2210	1638629.9421	1276.29	1653771.7234	1638659.9379	1276.25	66.7	11.1	Yes
74	1653772.0583	1638679.9351	1276.18	1653772.9155	1638709.9249	1276.07	66.7	11.1	No
75	1653774.5578	1638716.9180	1276.05	1653785.4184	1638734.2906	1275.99	87.3	14.7	No
76	1653785.4184	1638734.2906	1275.99	1653803.1450	1638744.5634	1275.93	87.3	14.7	No
77	1653823.1736	1638746.1080	1275.86	1653853.1694	1638745.6056	1275.74	66.7	11.1	Yes
78	1653873.1666	1638745.2707	1275.66	1653903.1624	1638744.7683	1275.54	66.7	11.1	Yes
79	1653923.1596	1638744.4333	1275.47	1653953.1554	1638743.9309	1275.42	66.7	11.1	Yes
80	1653973.1526	1638743.5960	1275.46	1654003.1767	1638744.7820	1275.52	66.2	11.1	No
420	1654514.5670	1638404.4817	1275.43	1654513.0523	1638434.5113	1275.53	66.1	11.1	No
421	1654513.3872	1638454.5085	1275.61	1654513.8896	1638484.5043	1275.73	66.7	11.1	Yes
422	1654514.2245	1638504.5015	1275.80	1654514.7269	1638534.4973	1275.92	66.7	11.1	Yes
423	1654515.0618	1638554.4944	1275.99	1654515.5642	1638584.4902	1276.11	66.7	11.1	Yes
424	1654515.8991	1638604.4874	1276.18	1654516.4015	1638634.4832	1276.30	66.7	11.1	Yes
425	1654516.7365	1638654.4804	1276.38	1654517.2389	1638684.4762	1276.49	66.7	9.4	Yes
426	1654491.9912	1638669.8970	1276.43	1654490.8052	1638699.9211	1276.51	66.2	11.1	No
427	1654491.1538	1638619.9040	1276.24	1654491.6562	1638649.8998	1276.36	66.7	11.1	Yes
428	1654490.3165	1638569.9110	1276.05	1654490.8189	1638599.9068	1276.17	66.7	11.1	Yes
429	1654489.4792	1638519.9180	1275.86	1654489.9816	1638549.9138	1275.97	66.7	11.1	Yes
430	1654488.6419	1638469.9250	1275.67	1654489.1443	1638499.9208	1275.78	66.7	11.1	Yes
431	1654487.8046	1638419.9320	1275.48	1654488.3070	1638449.9278	1275.59	66.7	9.4	Yes
432	1654274.6007	1638408.5008	1275.29	1654273.0859	1638438.5304	1275.49	66.1	11.1	No
433	1654273.4208	1638458.5276	1275.58	1654273.9232	1638488.5234	1275.72	66.7	11.1	Yes
434	1654274.2582	1638508.5206	1275.81	1654274.7606	1638538.5164	1275.95	66.7	11.1	Yes
435	1654275.0955	1638558.5136	1276.04	1654275.5979	1638588.5094	1276.18	66.7	11.1	Yes
436	1654275.9328	1638608.5066	1276.27	1654276.4352	1638638.5024	1276.41	66.7	11.1	Yes
437	1654276.7701	1638658.4996	1276.50	1654277.2725	1638688.4954	1276.64	66.7	9.4	Yes
438	1654252.0248	1638673.9161	1276.57	1654250.8388	1638703.9402	1276.57	66.2	11.1	No
439	1654251.1875	1638623.9231	1276.34	1654251.6899	1638653.9189	1276.48	66.7	11.1	Yes
440	1654250.3502	1638573.9302	1276.11	1654250.8526	1638603.9259	1276.25	66.7	11.1	Yes
441	1654249.5129	1638523.9372	1275.88	1654250.0153	1638553.9330	1276.02	66.7	11.1	Yes
442	1654248.6755	1638473.9442	1275.65	1654249.1779	1638503.9400	1275.79	66.7	11.1	Yes
443	1654247.8382	1638423.9512	1275.42	1654248.3406	1638453.9470	1275.56	66.7	9.4	Yes
444	1654034.6343	1638412.5200	1275.35	1654033.1196	1638442.5496	1275.51	66.1	11.1	No
445	1654033.4545	1638462.5468	1275.60	1654033.9569	1638492.5426	1275.74	66.7	11.1	Yes
446	1654034.2918	1638512.5398	1275.83	1654034.7942	1638542.5355	1275.97	66.7	11.1	Yes
447	1654035.1291	1638562.5327	1276.04	1654035.6315	1638592.5285	1276.08	66.7	11.1	Yes
448	1654035.9665	1638612.5257	1276.07	1654036.4689	1638642.5215	1275.98	66.7	11.1	Yes
449	1654036.8038	1638662.5187	1275.90	1654037.3062	1638692.5145	1275.78	66.7	9.4	Yes
450	1654012.0585	1638677.9353	1275.84	1654008.3743	1638457.9661	1275.58	66.2	11.1	No
451	1654011.2212	1638627.9423	1276.03	1654009.2116	1638507.9591	1275.81	66.7	11.1	Yes
452	1654010.3838	1638577.9493	1276.07	1654010.0489	1638557.9521	1276.02	66.7	11.1	Yes
453	1654009.5465	1638527.9563	1275.90	1654010.8862	1638607.9451	1276.07	66.7	11.1	Yes
454	1654008.7092	1638477.9633	1275.67	1654011.7236	1638657.9381	1275.92	66.7	11.1	Yes
455	1654007.8719	1638427.9703	1275.44	1654010.8725	1638707.9593	1275.61	66.7	9.4	Yes
456	1653870.8272	1638434.5481	1275.17	1653845.1022	1638449.9826	1275.32	66.7	3.1	Yes
457	1653794.3255	1638516.5589	1275.86	1653794.8279	1638546.5547	1276.01	66.7	11.1	Yes
458	1653795.1628	1638566.5519	1276.11	1653795.6652	1638596.5477	1276.24	66.7	11.1	Yes
459	1653796.0001	1638616.5449	1276.28	1653796.5025	1638646.5407	1276.28	66.7	11.1	Yes
460	1653796.8374	1638666.5379	1276.23	1653797.3398	1638696.5337	1276.11	66.7	9.4	Yes
461	1654063.1400	1638742.0888	1275.82	1654093.1358	1638741.5864	1275.94	66.7	9.4	Yes
462	1654113.1330	1638741.2515	1276.02	1654143.1288	1638740.7491	1276.14	66.7	11.1	Yes
463	1654173.1246	1638740.2467	1276.26	1654203.1204	1638739.7443	1276.38	66.7	11.1	Yes
464	1654233.1162	1638739.2419	1276.50	1654263.1119	1638738.7395	1276.62	66.7	11.1	Yes
465	1654293.1077	1638738.2372	1276.74	1654323.1035	1638737.7348	1276.86	66.7	11.1	Yes
466	1654353.0993	1638737.2324	1276.97	1654383.0951	1638736.7300	1277.00	66.7	11.1	Yes
467	1654408.0916	1638736.3113	1276.97	1654438.0874	1638735.8089	1276.85	66.7	11.1	Yes
468	1654463.0839	1638735.3903	1276.72	1654493.0797	1638734.8879	1276.55	66.7	11.1	Yes
469	1654518.0762	1638734.4692	1276.41	1654548.0720	1638733.9668	1276.25	66.7	11.1	Yes
470	1654573.0685	1638733.5482	1276.11	1654603.0643	1638733.0458	1275.95	66.7	11.1	Yes
471	1654628.0608	1638732.6271	1275.81	1654658.0566	1638732.1247	1275.65	66.7	11.1	Yes
472	1654692.6822	1638731.5448	1275.46	1654722.7063	1638732.7304	1275.21	66.2	11.1	No



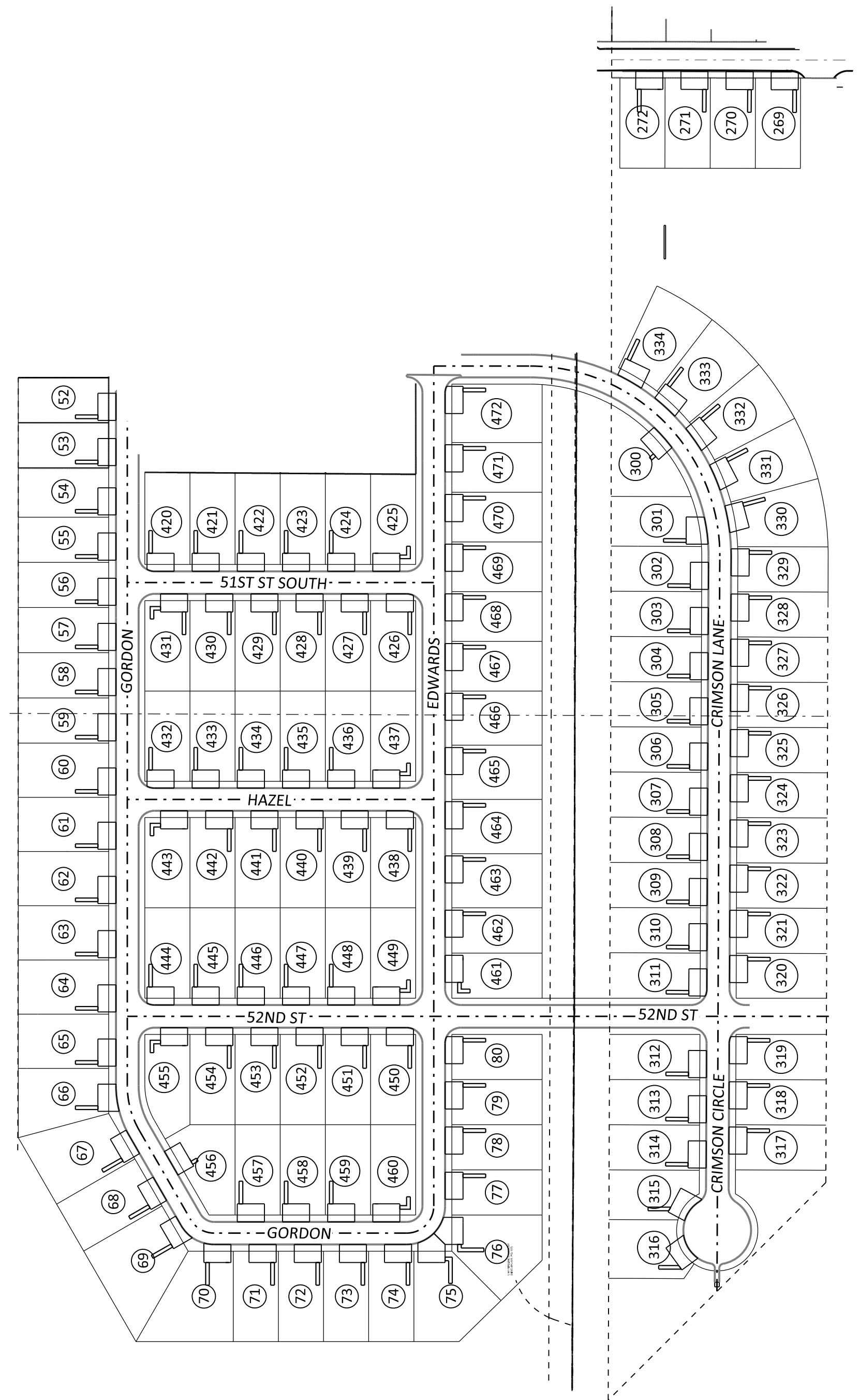
Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION
Drawn By:	BGN	Date:	4/17/2019
Checked By:	KLH	Issue No.:	0



Client: **WELCOME HOME**
5111 S. Meridian
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
DRIVEWAY DETAILS
WICHITA, KANSAS

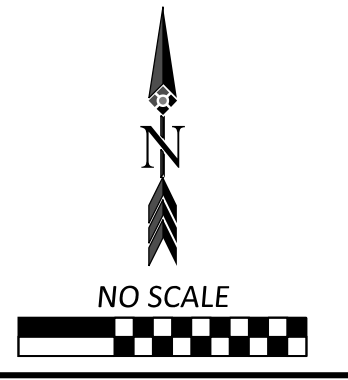
Sheet No. **RD302**
Project No. **2129**



DRIVEWAY SCHEMATIC

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10/30/2019 1:50:42 PM

Lot	Drive Beginning Point			Drive Ending Point			Drive Area (Sq. Yds.)	Sidewalk Area (Sq. Yds.)	Typical?
	Northing	Easting	Elevation	Northing	Easting	Elevation			
269	1655075.7396	1639116.3788	Match	1655077.0170	1639086.3594	Match	66.2	11.1	No
270	1655076.7550	1639066.3610	Match	1655076.3620	1639036.3636	Match	66.7	11.1	Yes
271	1655076.1000	1639016.3652	Match	1655075.7070	1638986.3678	Match	66.7	11.1	Yes
272	1655075.4449	1638966.3694	Match	1655075.0519	1638936.3720	Match	66.7	11.1	Yes
300	1654481.2128	1638963.1449	1274.66	1654659.1437	1638983.4662	1274.89	67.9	2.7	No
301	1654582.8596	1639020.4868	1275.57	1654552.9189	1639025.2765	1275.81	75.3	11.1	No
302	1654532.9267	1639026.0030	1275.96	1654502.9292	1639026.3903	1276.18	66.7	11.1	Yes
303	1654482.9308	1639026.6484	1276.33	1654452.9333	1639027.0356	1276.56	66.7	11.1	Yes
304	1654432.9350	1639027.2937	1276.69	1654402.9375	1639027.6810	1276.82	66.7	11.1	Yes
305	1654382.9392	1639027.9391	1276.84	1654352.9417	1639028.3263	1276.80	66.7	11.1	Yes
306	1654332.9433	1639028.5844	1276.72	1654302.9458	1639028.9716	1276.60	66.7	11.1	Yes
307	1654282.9475	1639029.2298	1276.52	1654252.9500	1639029.6170	1276.40	66.7	11.1	Yes
308	1654232.9516	1639029.8751	1276.32	1654202.9541	1639030.2623	1276.20	66.7	11.1	Yes
309	1654182.9558	1639030.5205	1276.12	1654152.9583	1639030.9077	1276.00	66.7	11.1	Yes
310	1654132.9600	1639031.1658	1275.92	1654102.9625	1639031.5530	1275.80	66.7	11.1	Yes
311	1654082.9656	1639031.8112	1275.72	1654052.9465	1639030.5280	1275.61	66.2	11.1	No
312	1653992.5884	1639032.9778	1275.69	1653962.5909	1639033.3650	1275.91	66.7	11.1	Yes
313	1653942.5926	1639033.6231	1275.97	1653912.5951	1639034.0103	1275.89	66.7	11.1	Yes
314	1653892.5968	1639034.2684	1275.79	1653862.5993	1639034.6557	1275.63	66.7	11.1	Yes
315	1653827.9206	1639030.5020	1275.38	1653803.7466	1639011.8671	1275.21	72.6	10.6	No
316	1653788.0496	1639010.9987	1275.13	1653762.6945	1639027.2072	1274.99	70.4	10.5	No
317	1653908.4557	1639059.0658	1275.87	1653878.4582	1639059.4530	1275.72	66.7	11.1	Yes
318	1653958.4516	1639058.4205	1275.93	1653928.4541	1639058.8077	1275.95	66.7	11.1	Yes
319	1654008.4693	1639059.4455	1275.41	1653978.4503	1639058.1623	1275.81	66.2	11.1	No
320	1654098.2856	1639056.6155	1275.78	1654068.2881	1639057.0027	1275.66	66.7	11.1	Yes
321	1654148.2814	1639055.9701	1275.98	1654118.2839	1639056.3574	1275.86	66.7	11.1	Yes
322	1654198.2772	1639055.3248	1276.18	1654168.2797	1639055.7120	1276.06	66.7	11.1	Yes
323	1654248.2731	1639054.6794	1276.38	1654218.2756	1639055.0667	1276.26	66.7	11.1	Yes
324	1654298.2689	1639054.0341	1276.58	1654268.2714	1639054.4213	1276.46	66.7	11.1	Yes
325	1654348.2647	1639053.3888	1276.78	1654318.2672	1639053.7760	1276.66	66.7	11.1	Yes
326	1654398.2606	1639052.7434	1276.83	1654368.2631	1639053.1306	1276.83	66.7	11.1	Yes
327	1654448.2564	1639052.0981	1276.59	1654418.2589	1639052.4853	1276.77	66.7	11.1	Yes
328	1654498.2522	1639051.4527	1276.22	1654468.2547	1639051.8399	1276.44	66.7	11.1	Yes
329	1654548.2459	1639050.6413	1275.85	1654518.2506	1639051.1946	1276.07	66.7	11.1	No
330	1654595.5550	1639043.0343	1275.52	1654566.0590	1639049.0024	1275.73	69.5	11.1	No
331	1654640.4567	1639025.3073	1275.18	1654612.9422	1639037.4966	1275.39	69.5	11.1	No
332	1654680.4782	1638998.3130	1274.84	1654656.2404	1639016.1498	1275.05	69.5	11.1	No
333	1654713.7355	1638963.3220	1274.55	1654693.9153	1638985.9668	1274.71	69.5	11.1	No
334	1654738.6631	1638921.9816	1274.47	1654724.1934	1638948.3683	1274.49	69.5	11.1	No



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION
		BGN	
		KLH	

Drawn By: BGN
Checked By: KLH
Date: 4/17/2019
Issue No. 0

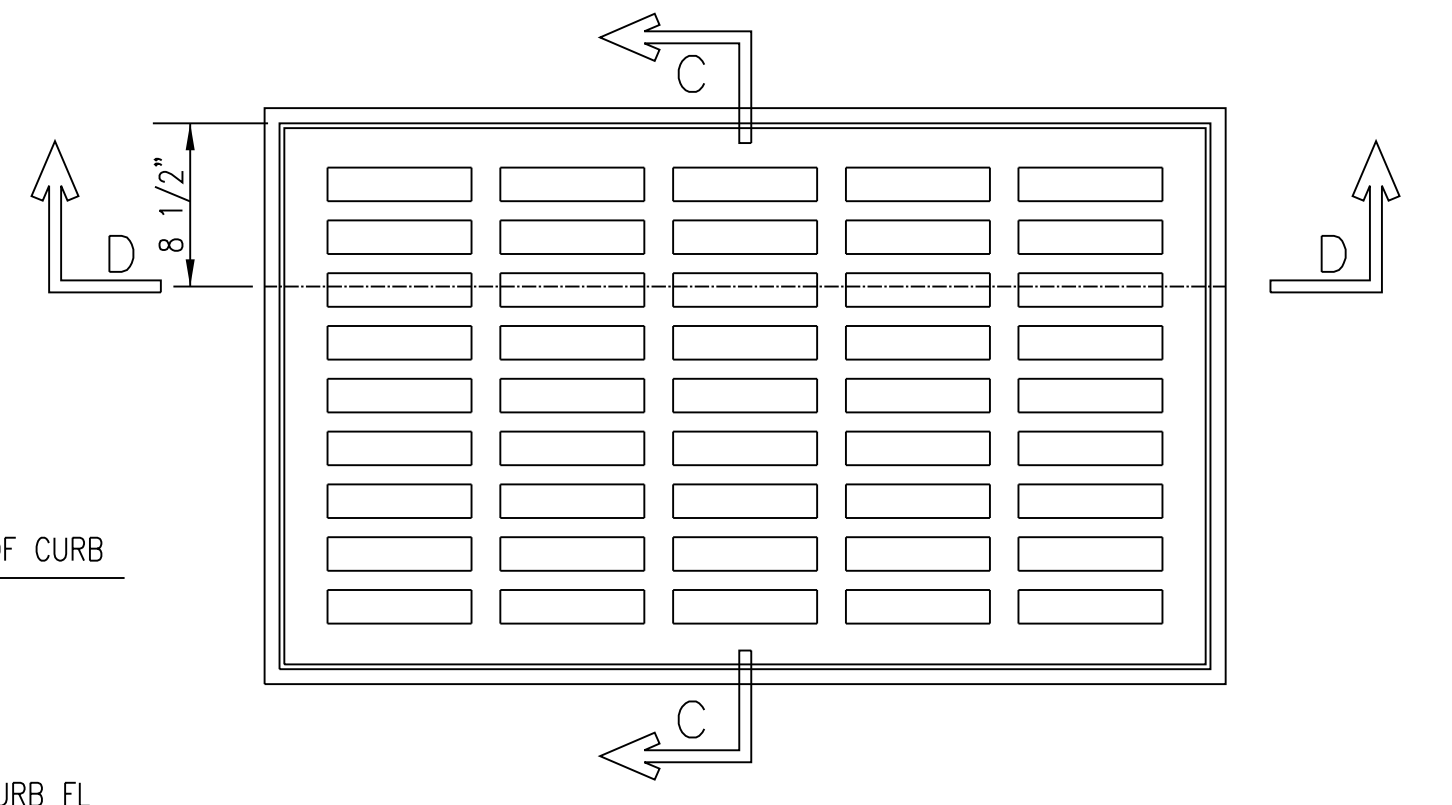
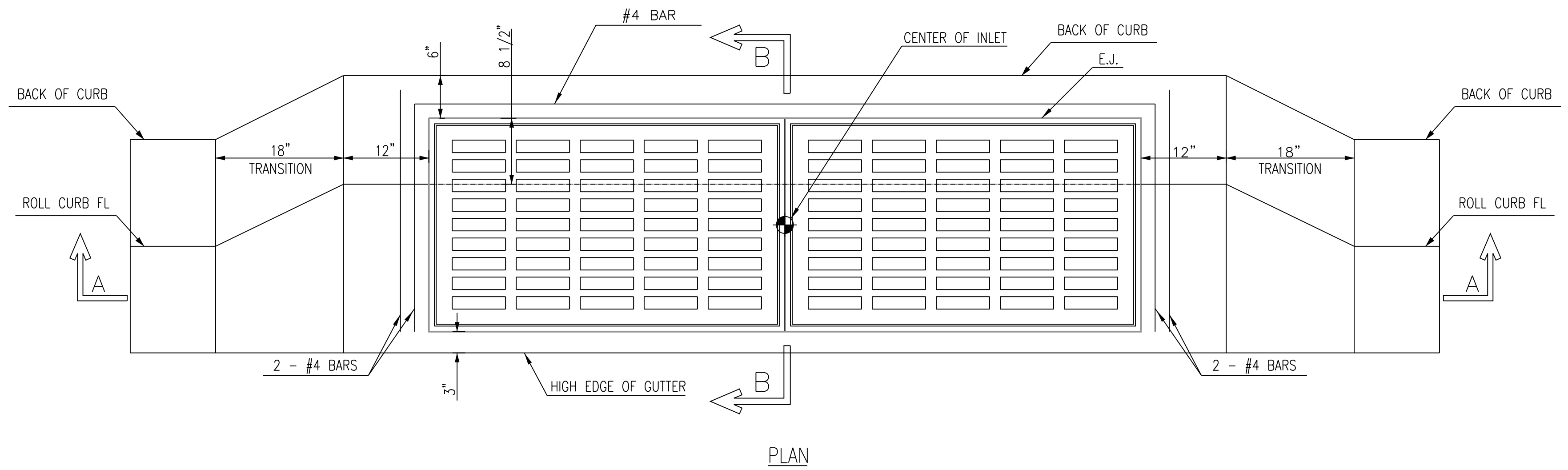


Client: **WELCOME HOME**
5111 S. Meridian
Wichita, KS 67217

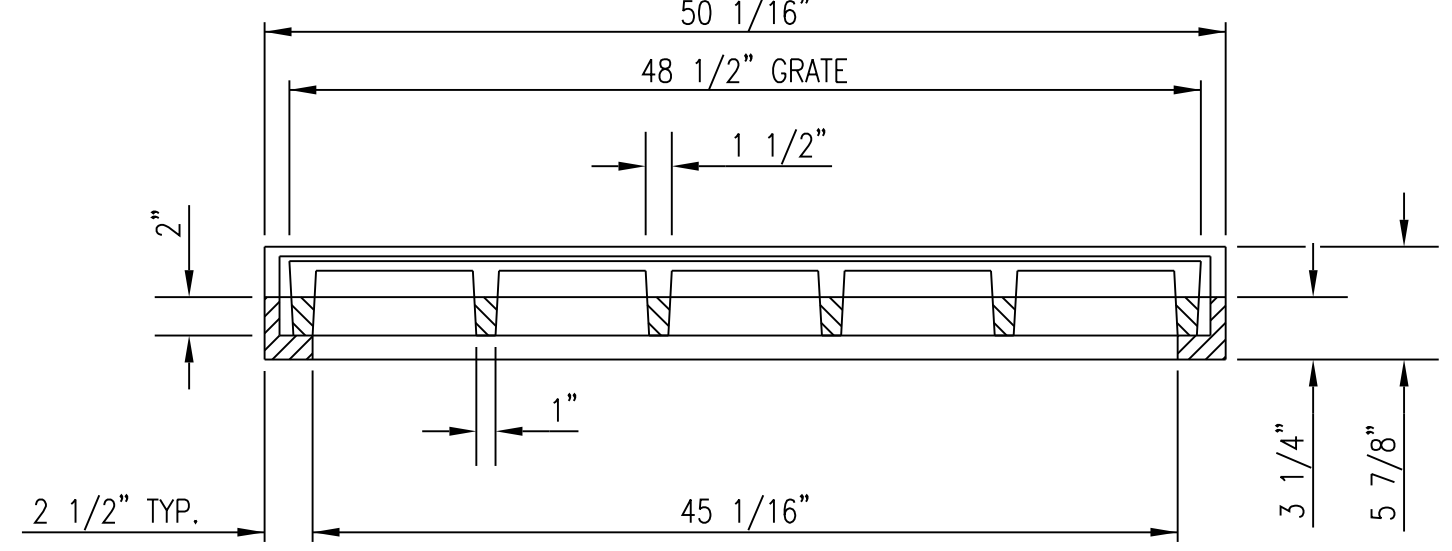
SOUTHBOROUGH ESTATES PHASE 2
DRIVEWAY DETAILS
WICHITA, KANSAS

Sheet No. **RD303**
Project No. **2129**

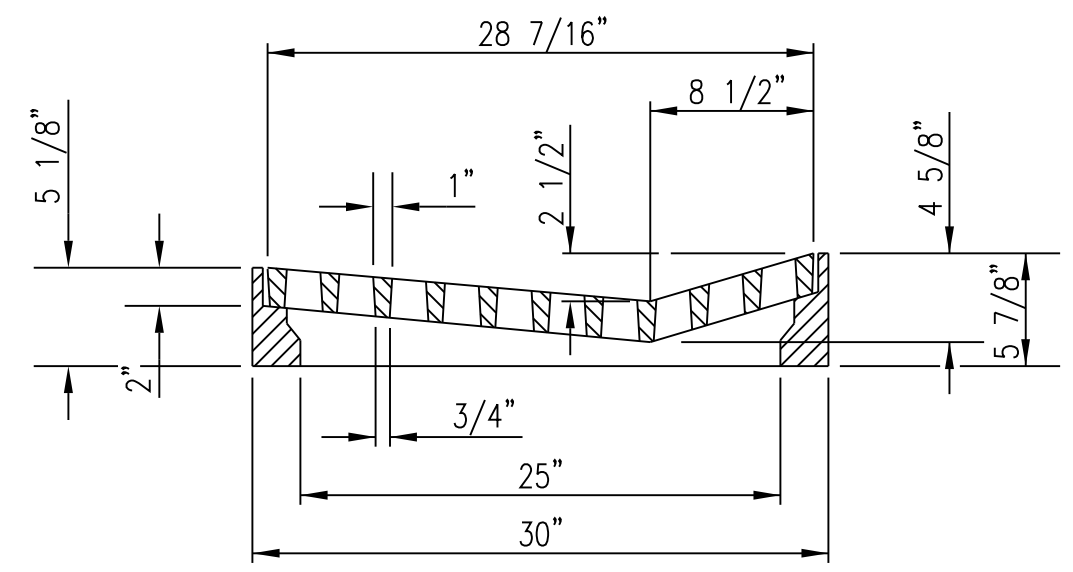
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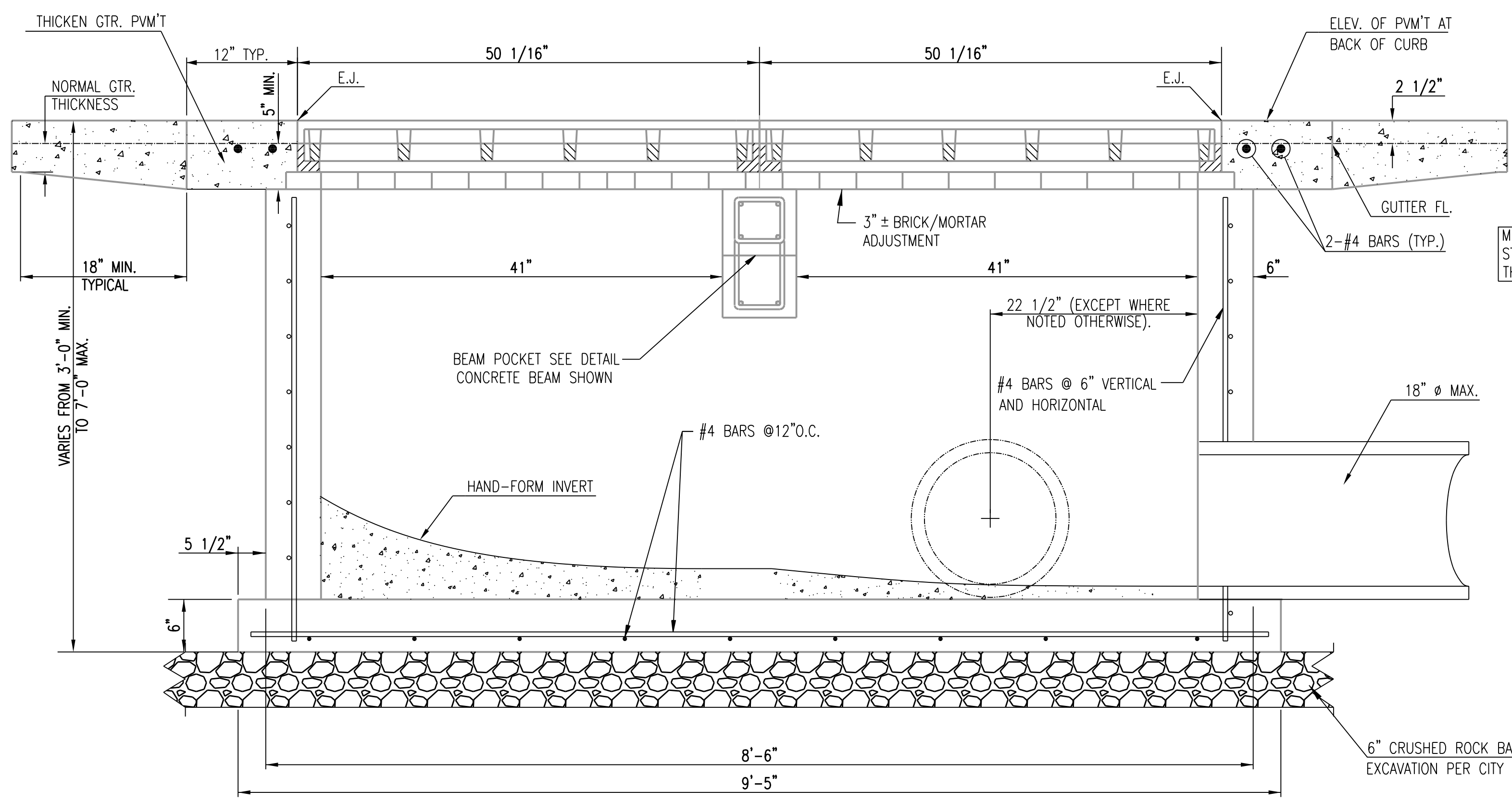
PLAN
DEETER #2095 FRAME & GRATE
TOTAL WEIGHT: 705 LBS.
(2 EACH REQUIRED)
OR EJM #7392



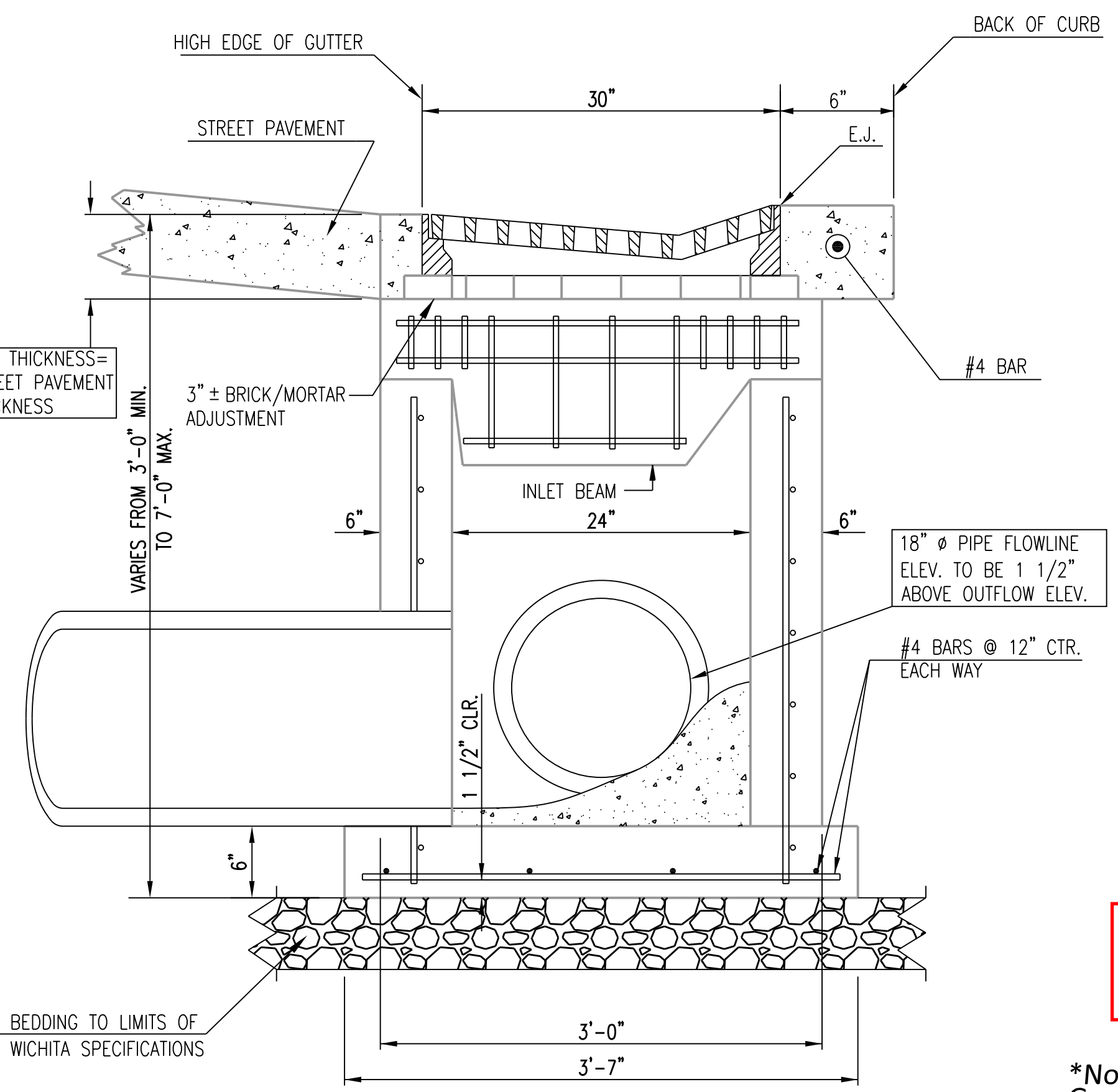
SECTION D-D



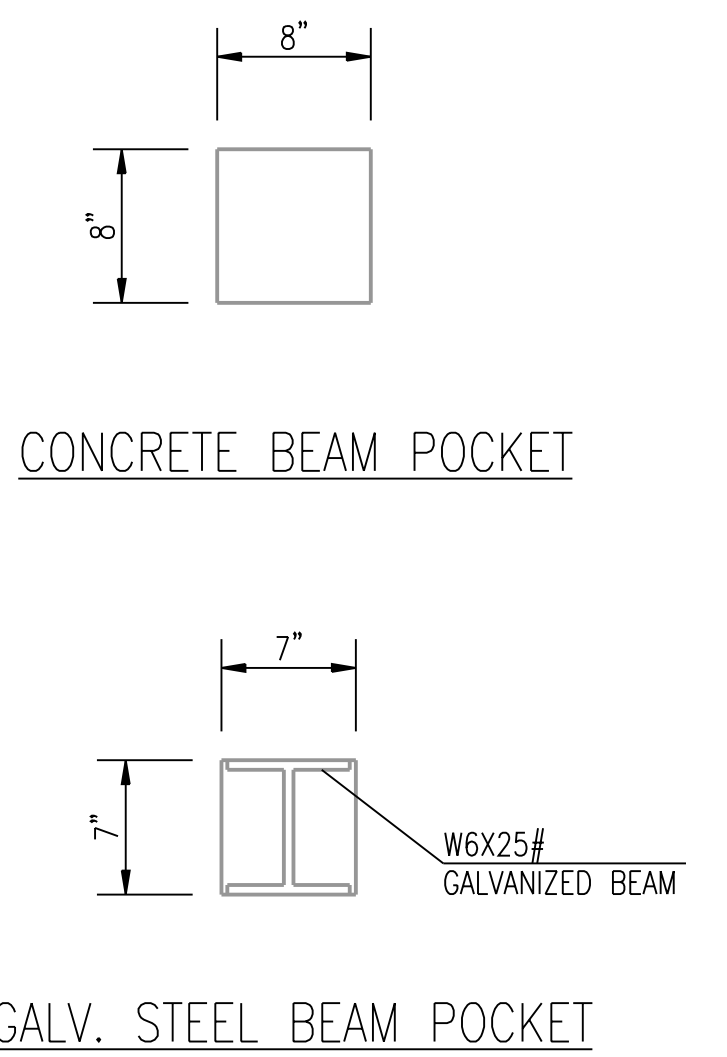
SECTION C-C



SECTION A-A



SECTION B-B

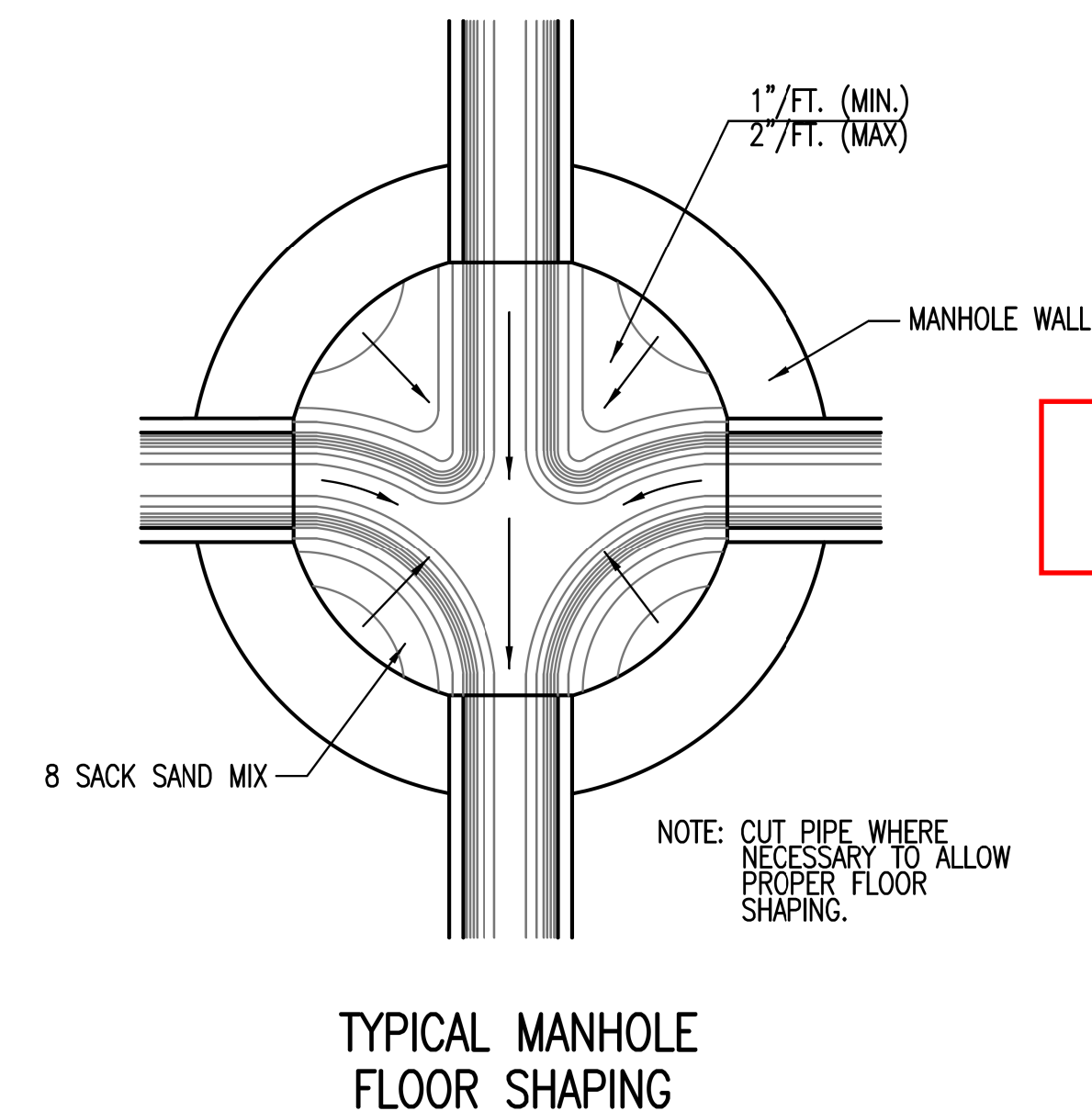
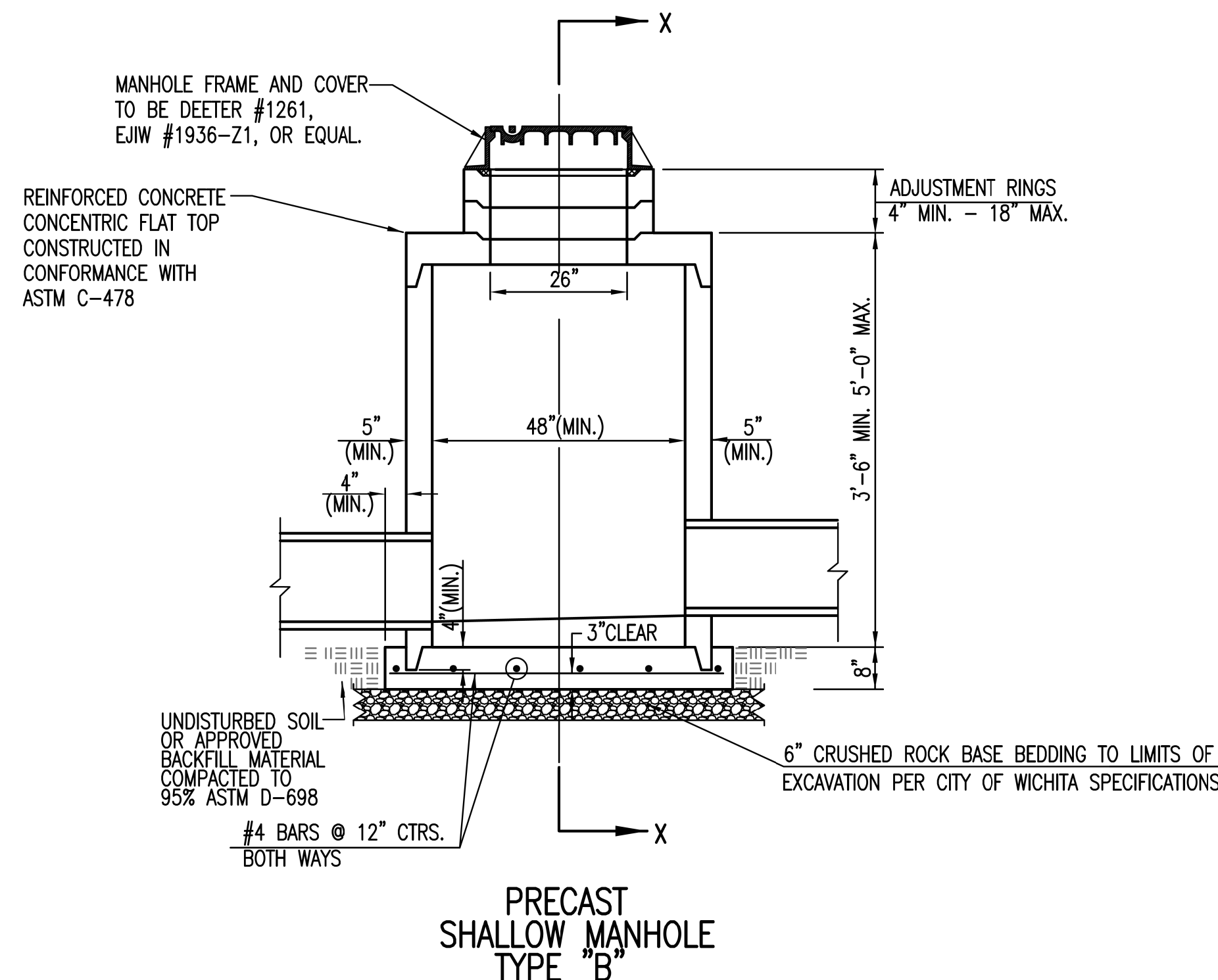
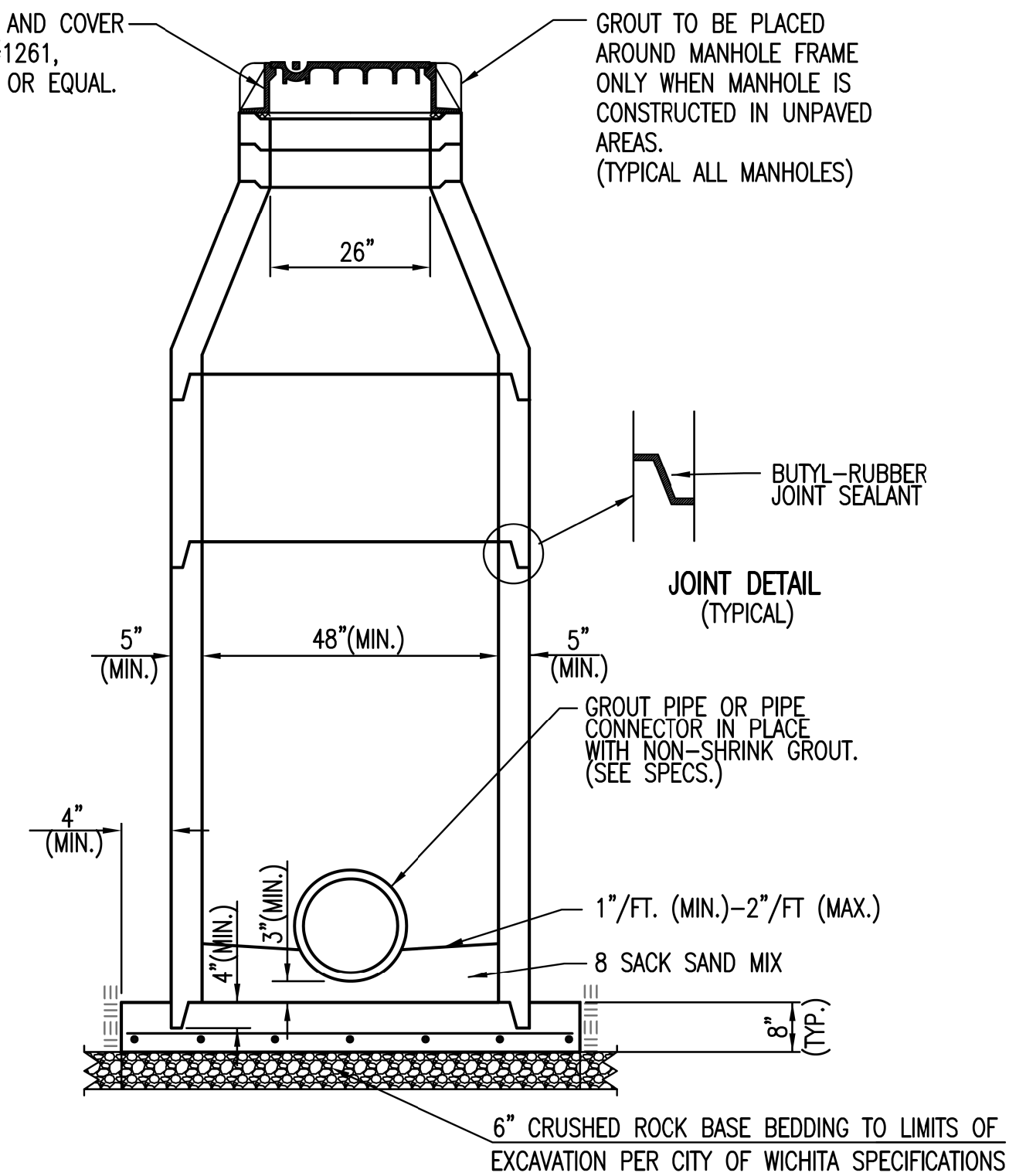
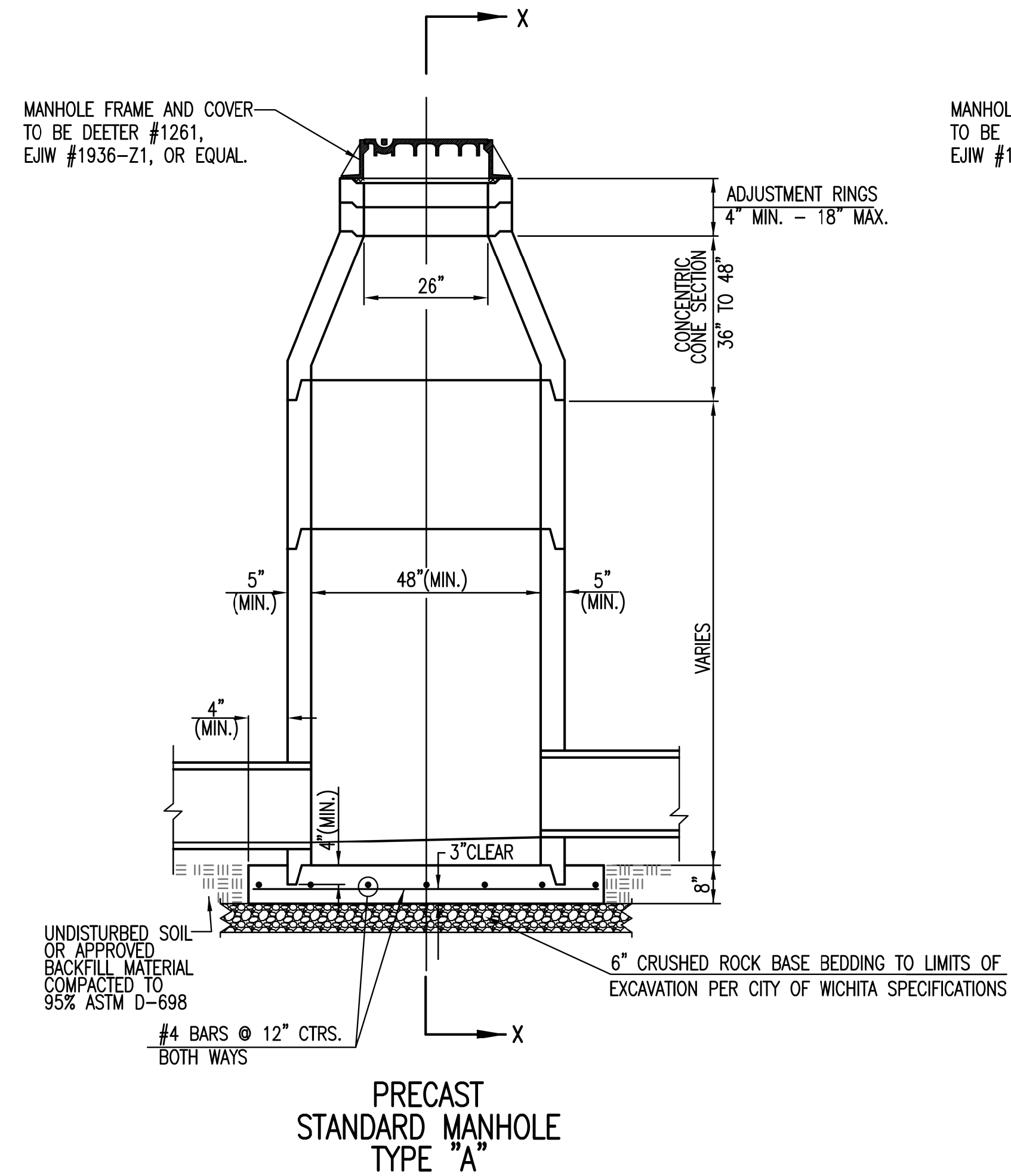


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*Note: Adopted from COW Specification for Graded Driveway Inlet (Double). Modified for this Project.

GENERAL NOTES

1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALL BETWEEN THE CONCRETE INLET BASE AND TOP OF THIS INLET WHEN H=7'-0" OR LESS.
3. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
4. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
5. INLET FRAME AND GRATE TO BE DEETER #2095, EJM #7392, OR APPROVED EQUAL.
6. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



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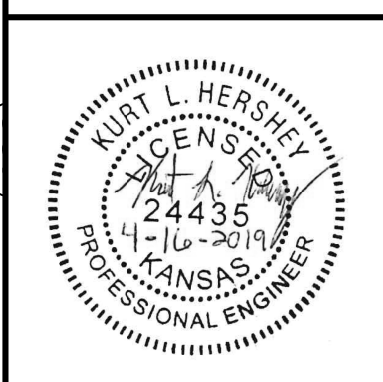
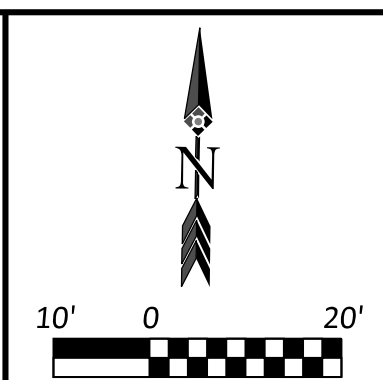
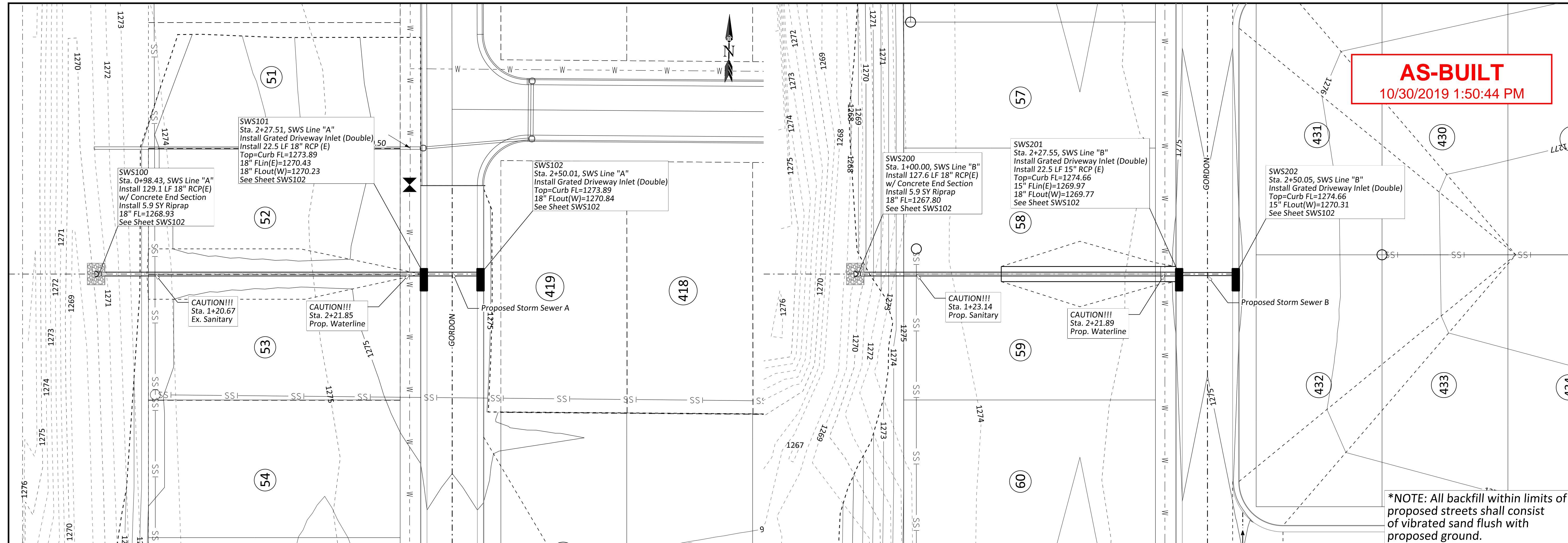
GENERAL NOTES

- IF, IN THE OPINION OF THE ENGINEER, THE MANHOLE SUBGRADE APPEARS UNSTABLE, THE CONTRACTOR WILL HAVE THE OPTION TO COMPACT SUBGRADE AS SHOWN OR INCREASE THE THICKNESS OF THE MANHOLE BASE AS DIRECTED BY THE ENGINEER.
- STEEL REINFORCING WILL BE REQUIRED IN ALL MANHOLE BASES.
- ALL MANHOLE CONSTRUCTION SHALL BE WATER TIGHT.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISION OF ASTM C-478 AS MODIFIED BY THE SPECIFICATIONS.
- CONCRETE USED FOR MANHOLE CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO MANHOLE BASE.
- MANHOLES WITH PIPE SIZES 24" AND LARGER SHALL HAVE 5 FOOT INSIDE DIAMETER (MIN.)
- MANHOLES WITH PRECAST BASES MAY BE USED AT THE CONTRACTORS OPTION. THESE MANHOLES SHALL HAVE AN 8" MINIMUM BASE THICKNESS AND SHALL BE PLACED ON AN 8" MIN. CRUSHED ROCK BASE. PIPES SHALL BE ENCASED WITH CRUSHED ROCK TO AT LEAST 3 FEET FROM THE MANHOLE WALL.
- CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN MANHOLE WALL SHALL BE GROUTED FLUSH TO THE MANHOLE WALL WITH HYDRAULIC CEMENT AFTER THE MANHOLE IS IN PLACE. LIFTING HOLES THRU THE MANHOLE WALL WILL NOT BE ACCEPTED.
- THE ENDS OF ALL PIPES IN MANHOLES SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE MANHOLE WALL.
- MANHOLE INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE MANHOLE WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
- MANHOLE FRAME AND COVER TO BE DEETER #1261, EJIW #1936-Z1, OR APPROVED EQUAL, SEE SW-303.
- FOR FLAT GRATED INLET APPLICATION, GRATE TO BE DEETER #1933, EJIW #1205 MDI, OR APPROVED EQUAL.
- FOR BEEHIVE GRATE APPLICATION, GRATE TO BE DEETER #4495, EJIW #120545, OR APPROVED EQUAL.

REVISED: MARCH 2015

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

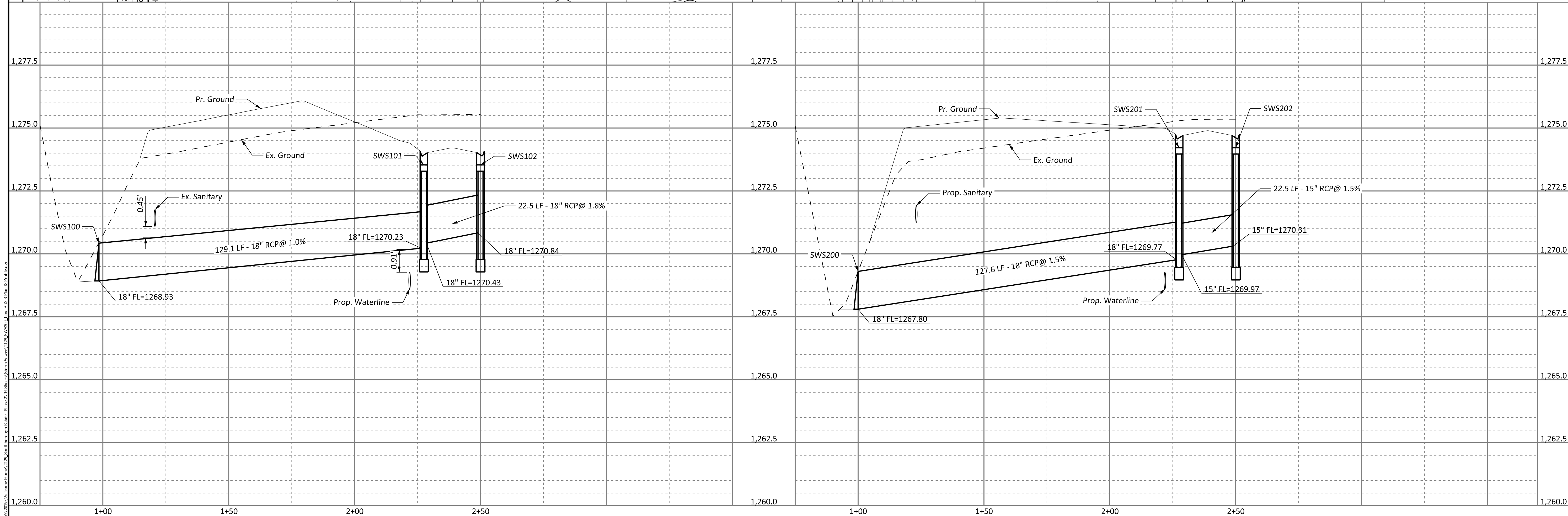
<p>PRECAST CONCRETE MANHOLE (STORM SEWER)</p> <p>CITY ENGINEER GARY JANZEN, P.E.</p>		
PROJECT NUMBER	OCA NUMBER	DATE
<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>		<p>SHEET SWS101</p>



Issue	Date	By	Description
0	04-16-2019	KLH	ISSUE FOR CONSTRUCTION

Drawn By:	BGN	Date:	4/17/2019
Checked By:	KLH	Issue No.:	0

*NOTE: All backfill within limits of proposed streets shall consist of vibrated sand flush with proposed ground.

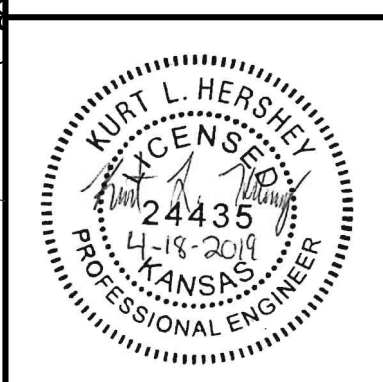
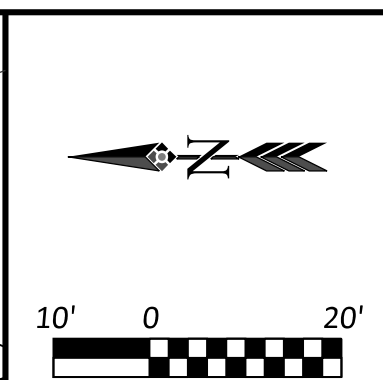
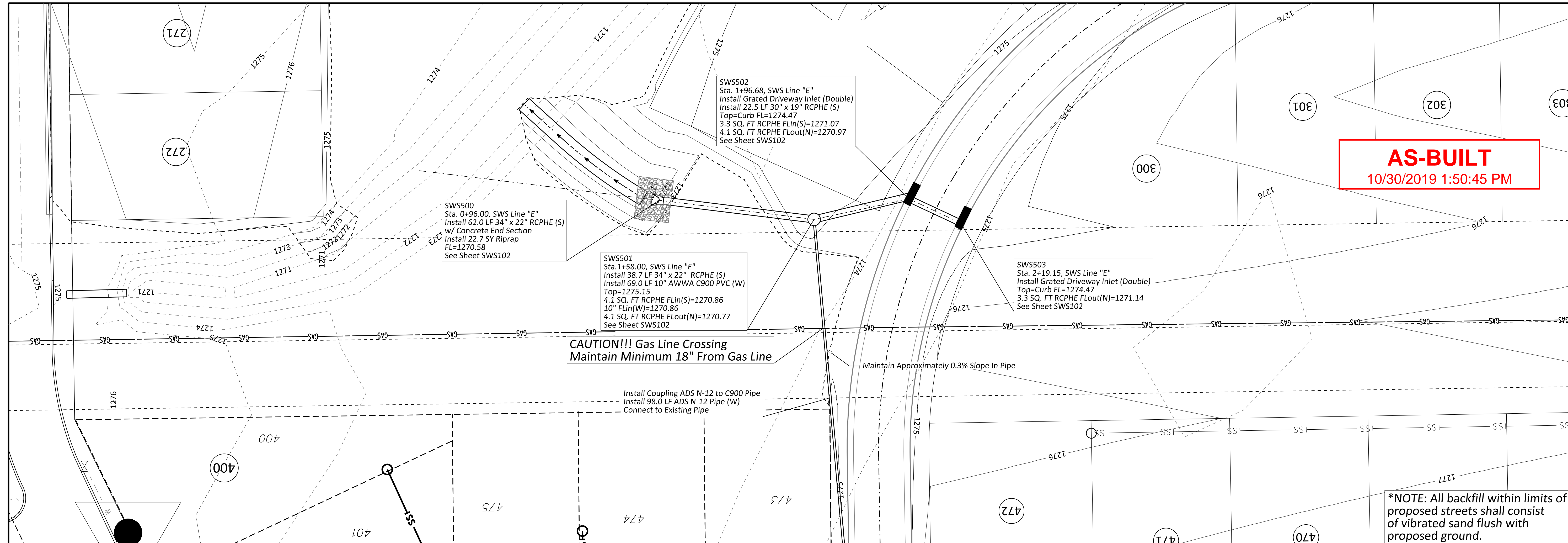


Client:
WELCOME HOME
5111 S. Meridian,
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
LINE A & B
PLAN & PROFILE
WICHITA, KANSAS

Sheet No.
SWS200

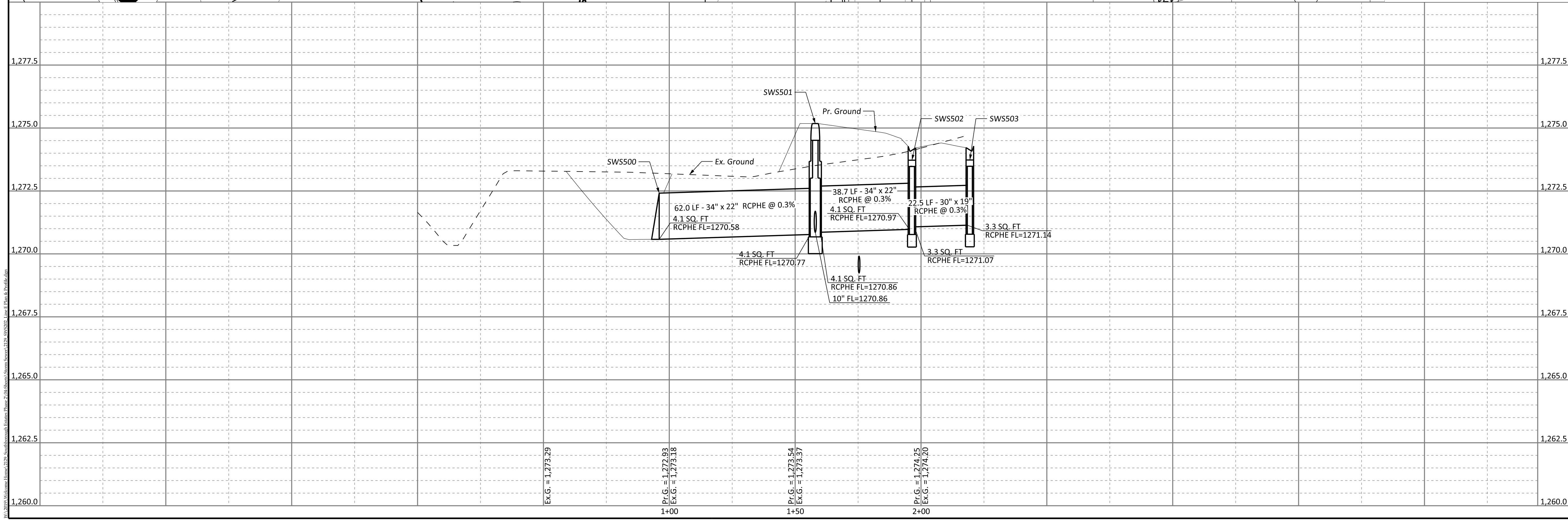
Project No.
2129



Issue	Date	By	Description
0	04-18-2019	KLH	ISSUE FOR CONSTRUCTION

Drawn By:	BGN	Date:	4/18/2019
Checked By:	KLH	Issue No.:	0

*NOTE: All backfill within limits of proposed streets shall consist of vibrated sand flush with proposed ground.

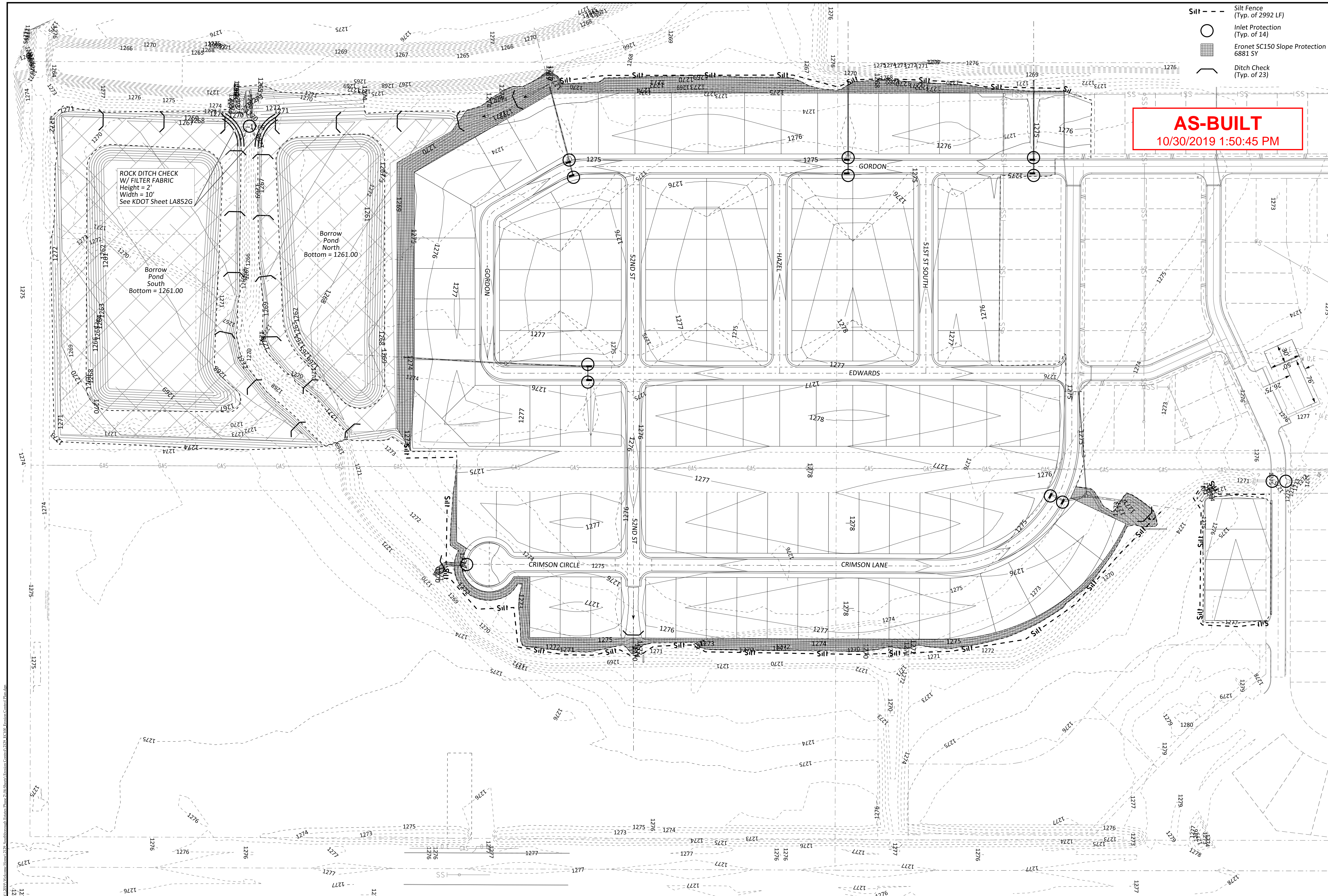


Client:
WELCOME HOME
5111 S. Meridian
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
LINE E
PLAN & PROFILE
WICHITA, KANSAS

Sheet No.
SWS202

Project No.
2129



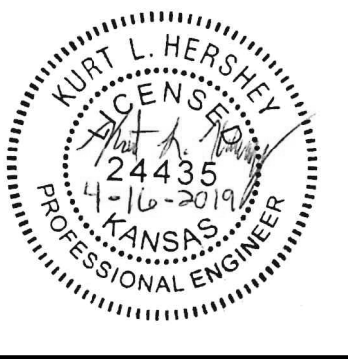
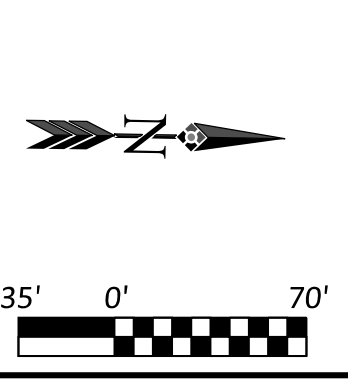
ROCK DITCH CHECK
W/ FILTER FABRIC
Height = 2'
Width = 10'
See KDOT Sheet LA852G

Borrow Pond
North
Bottom = 1261.00

Borrow Pond
South
Bottom = 1261.00

AS-BUILT
10/30/2019 1:50:45 PM

- Silt - - - Silt Fence (Typ. of 2992 LF)
- Inlet Protection (Typ. of 14)
- Eronet SC150 Slope Protection 6881 SY
- ┌ Ditch Check (Typ. of 23)



Issue	Date	By	Description
0	4-16-2019	KLH	ISSUE FOR CONSTRUCTION

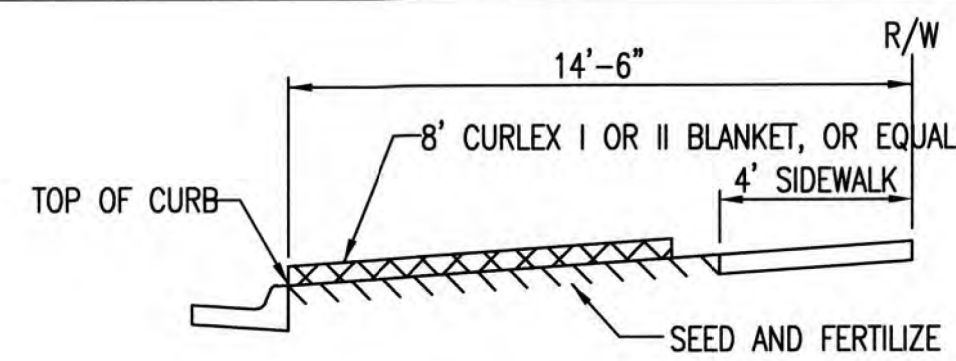
Drawn By: BGN
Checked By: KLH
Date: 4/17/2019
Issue No. 0



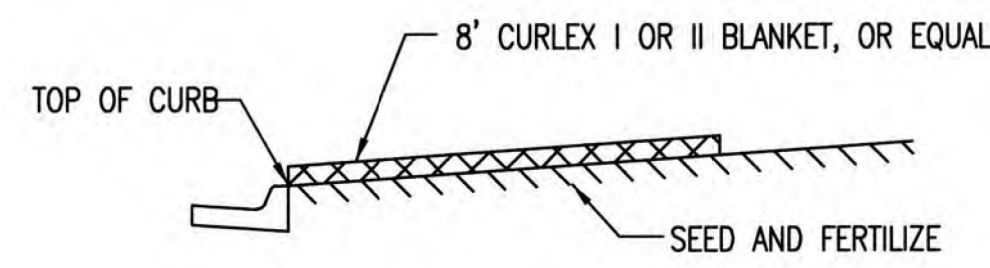
Client: WELCOME HOME
5111 S. Meridian
Wichita, KS 67217

SOUTHBOROUGH ESTATES PHASE 2
EROSION CONTROL PLAN
WICHITA, KANSAS

Sheet No. **EC100**
Project No. **2129**

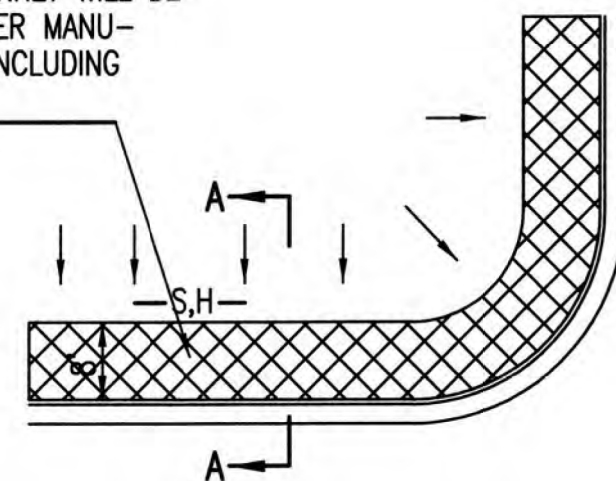


SECTION B-B

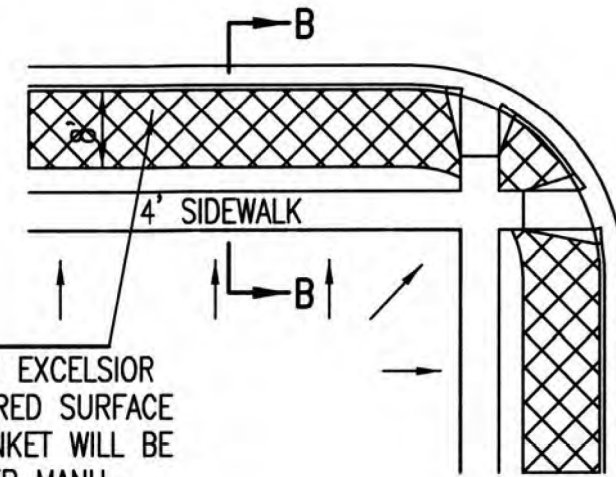


SECTION A-A

INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

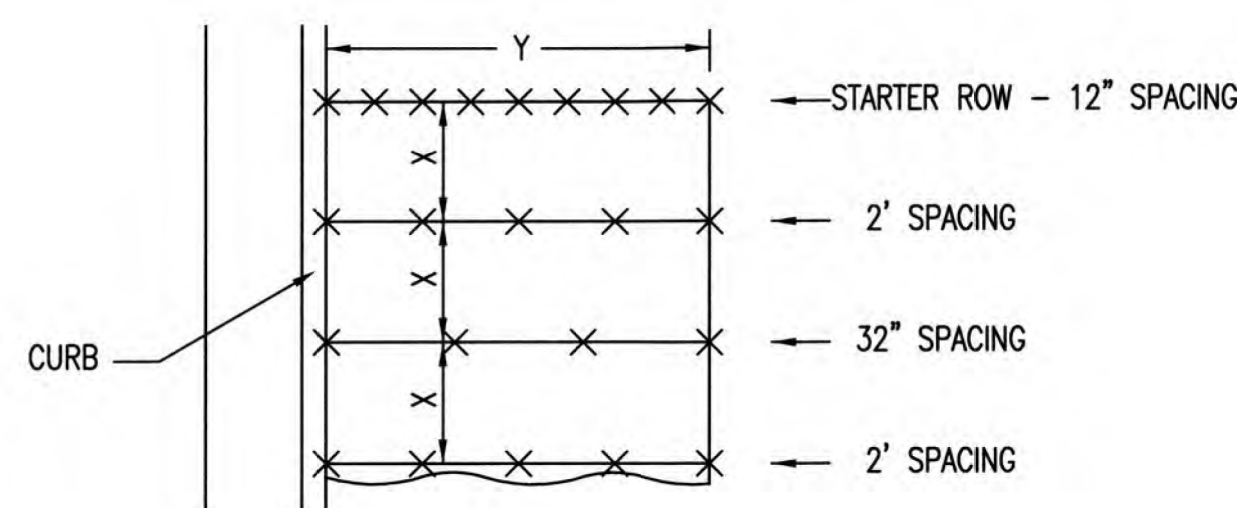


INSTALL 8" WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

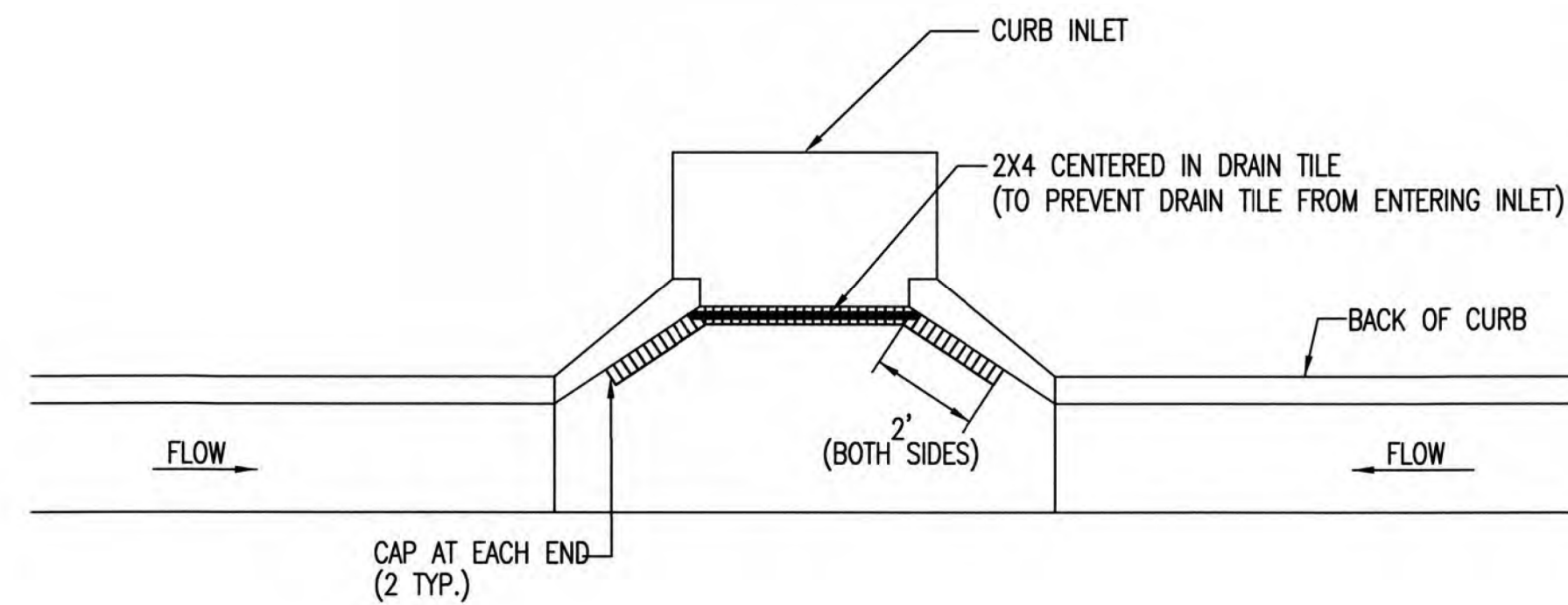
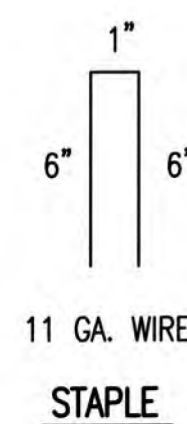
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

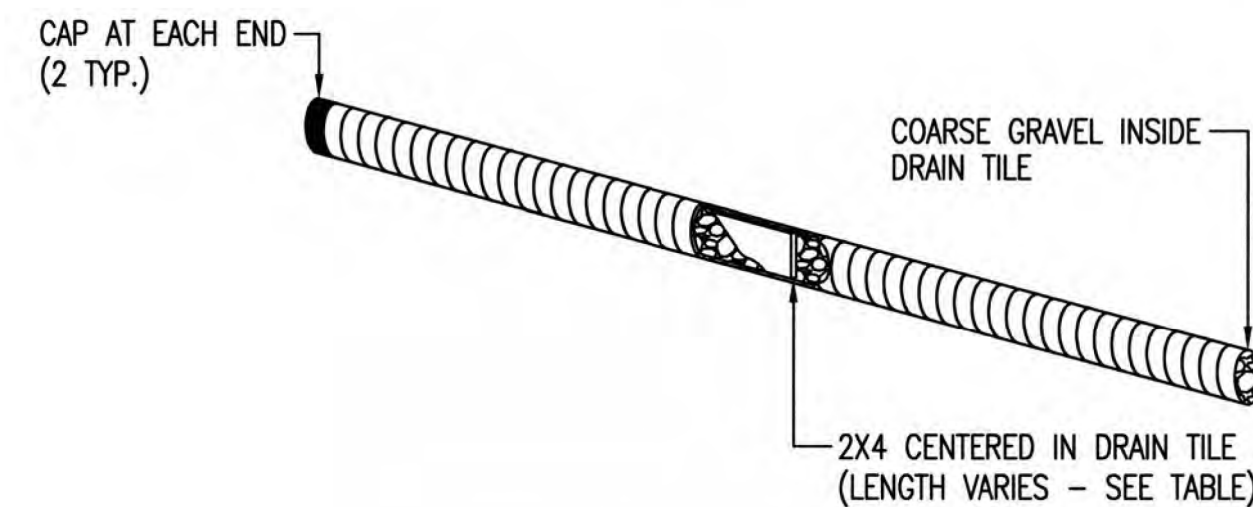
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

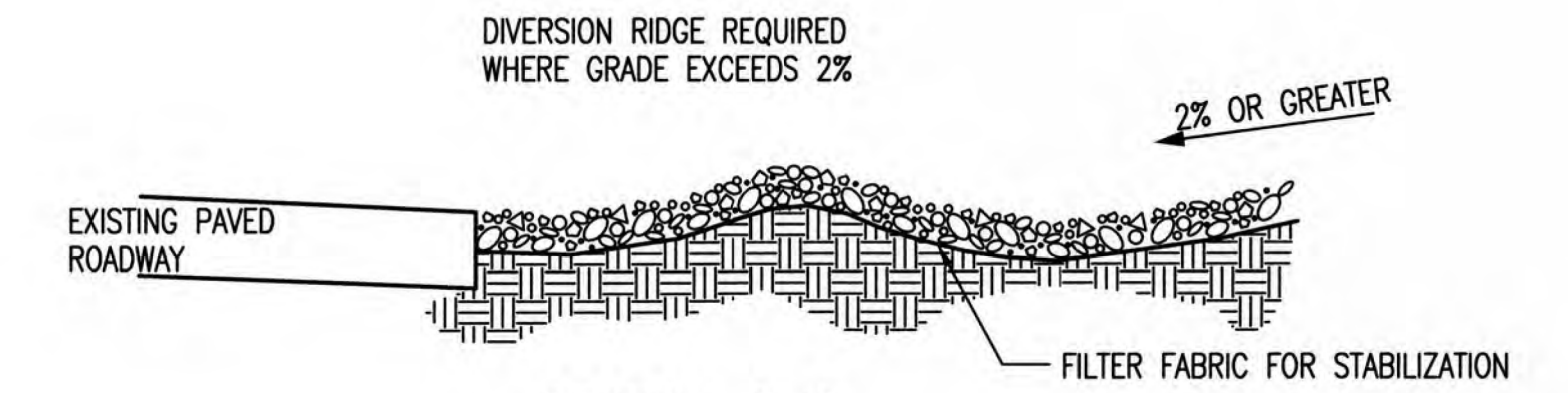


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

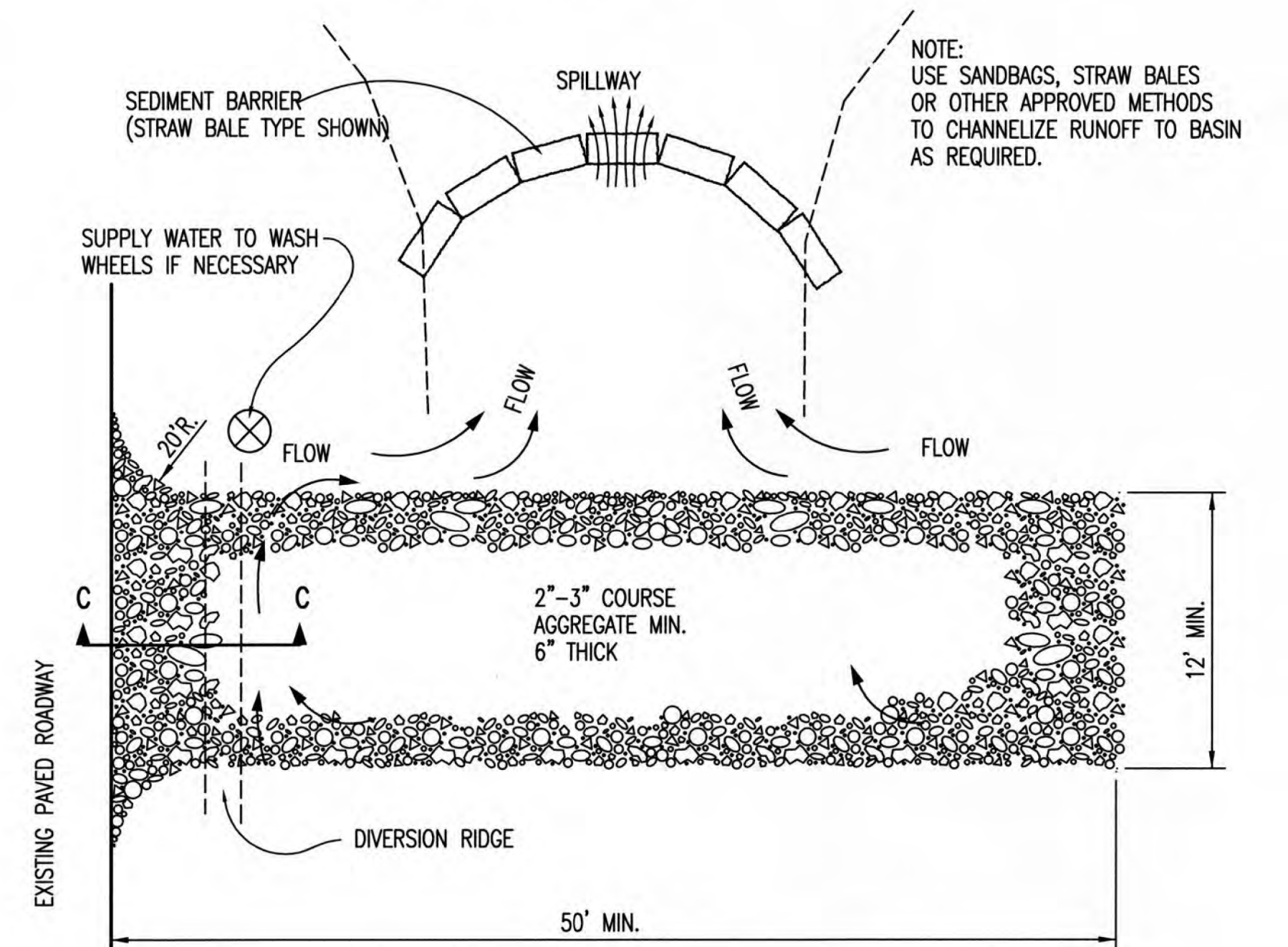
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

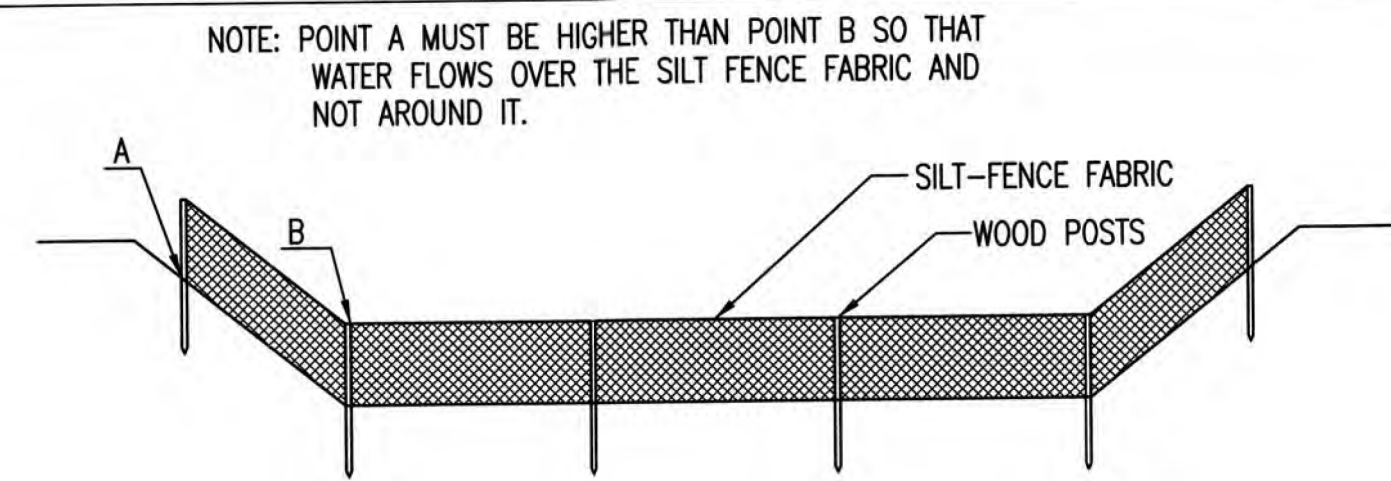
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BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 2129	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET EC101

REVISION DATE: MAY 2013



ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

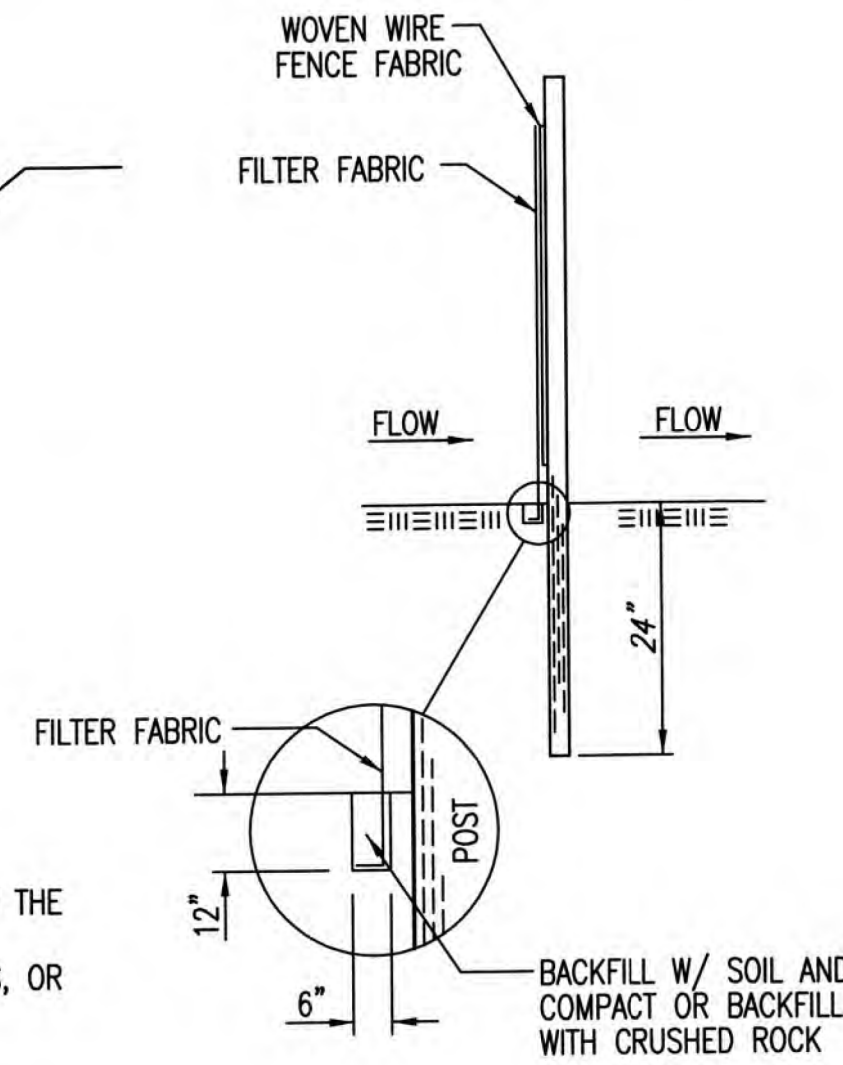
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK—NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

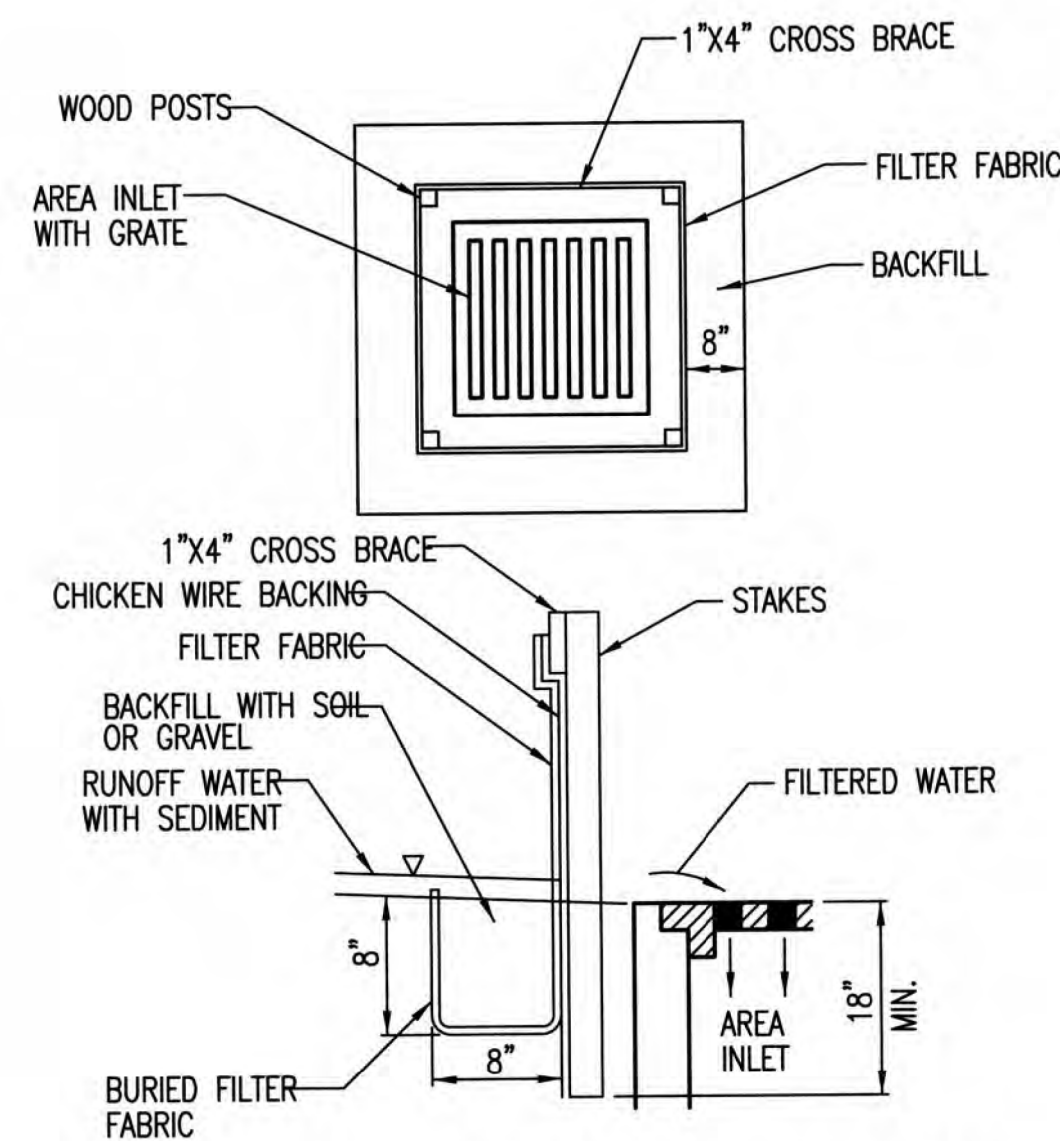
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

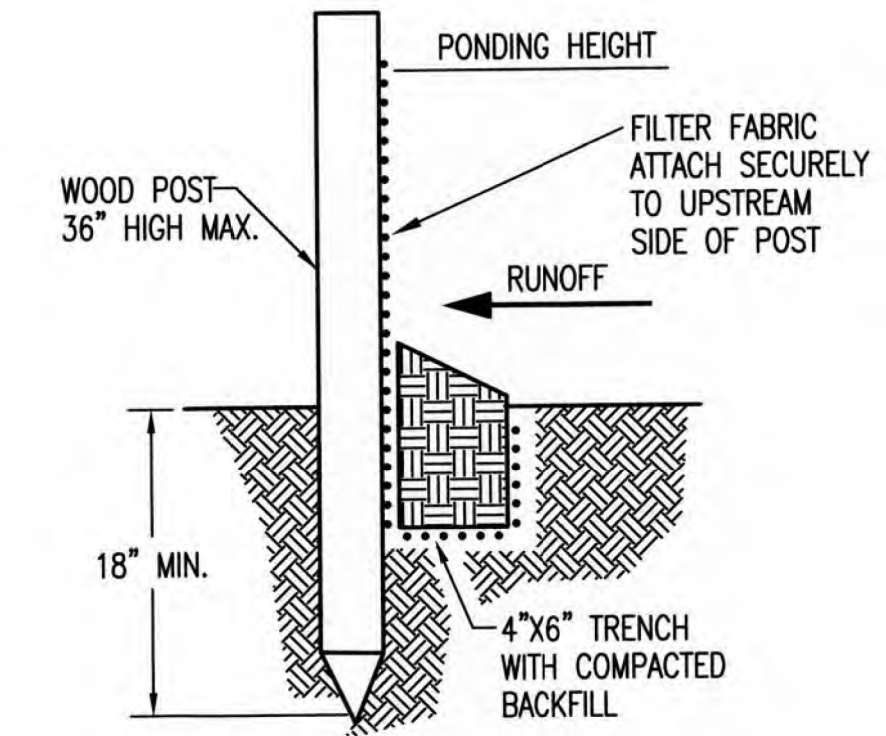
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE SILT FENCE?
- DOES THE SILT FENCE SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND—SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

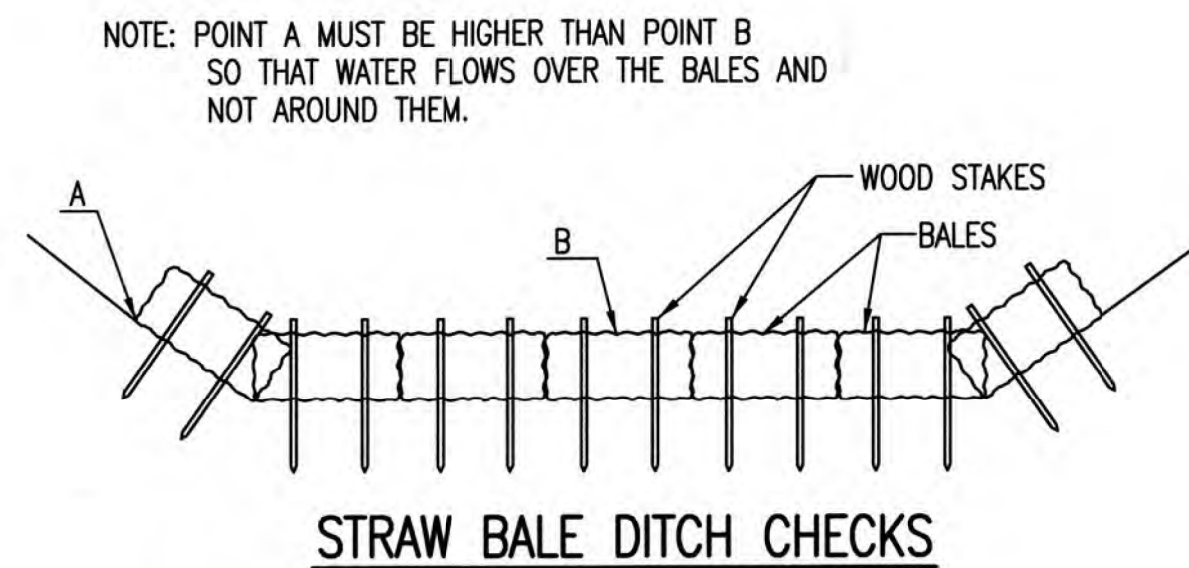
- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

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CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			SILT FENCE DITCH CHECK AND BARRIER DETAILS	
CITY ENGINEER GARY JANZEN, P.E.				
PROJECT NUMBER 2129	OCA NUMBER	DATE		
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			SHEET EC102	



MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE. OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK.

STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD.

BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH—IT WILL BE USED LATER. OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

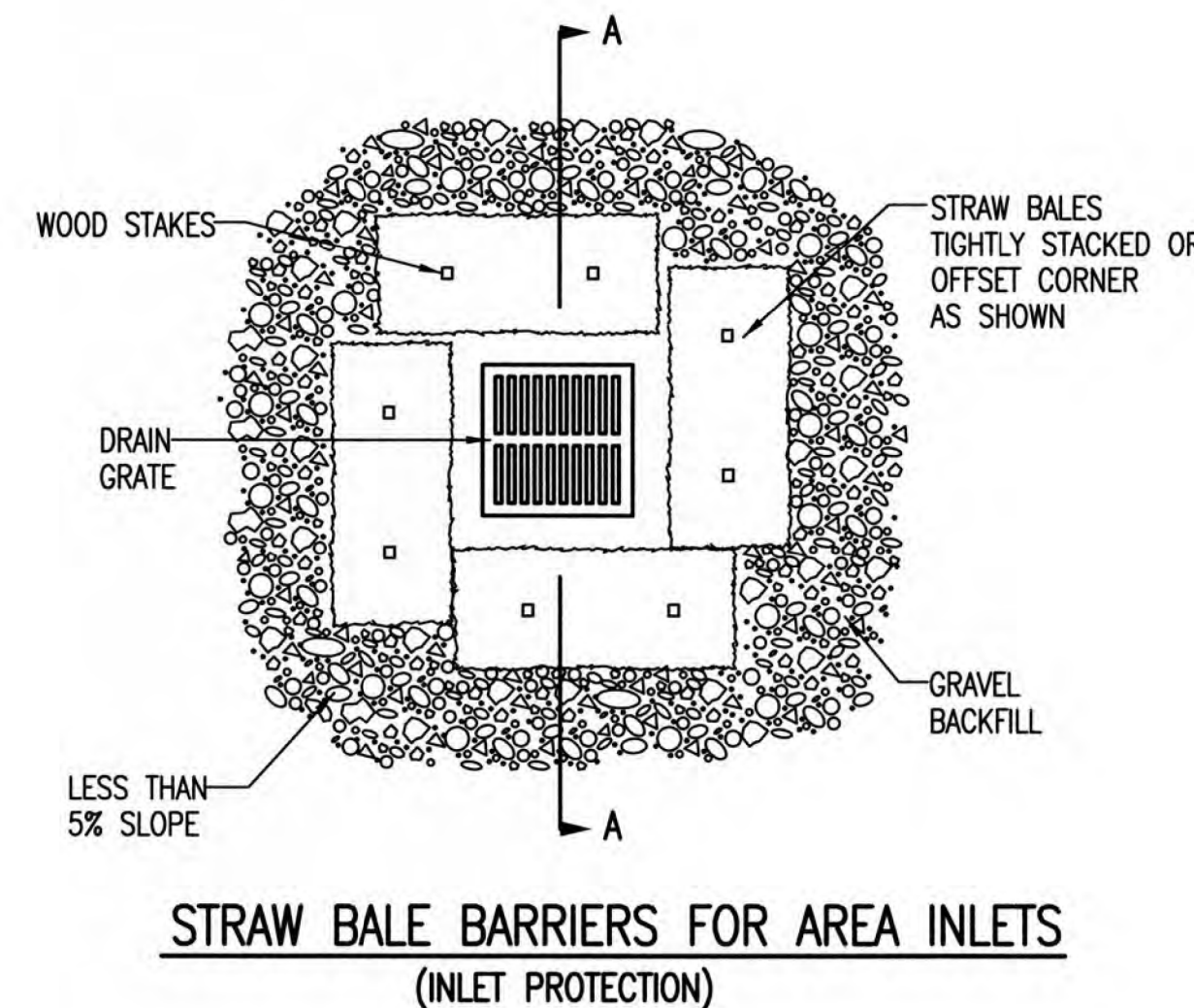
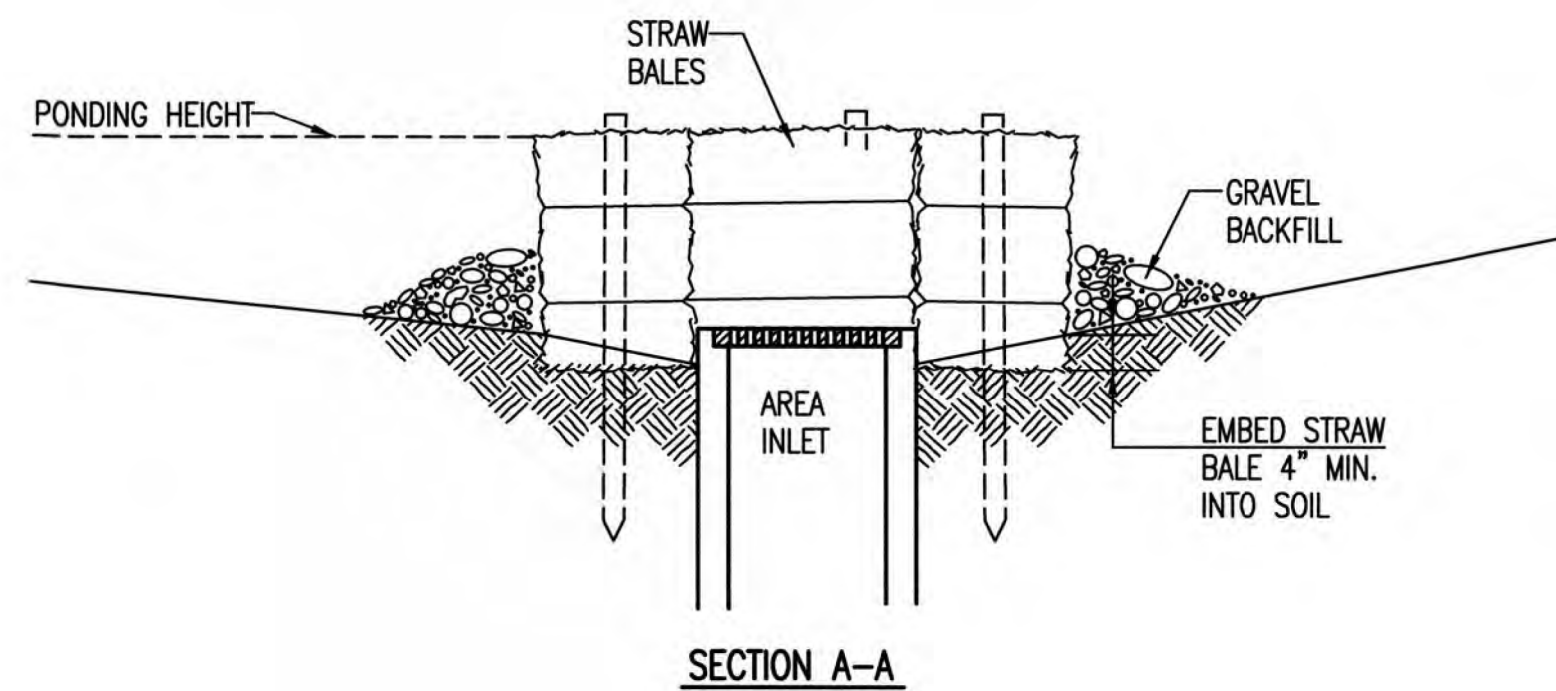
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW.
DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW.
FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS.
DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE.
DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.
BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW AROUND THE DITCH CHECK?
- DOES WATER FLOW UNDER THE DITCH CHECK?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP. NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

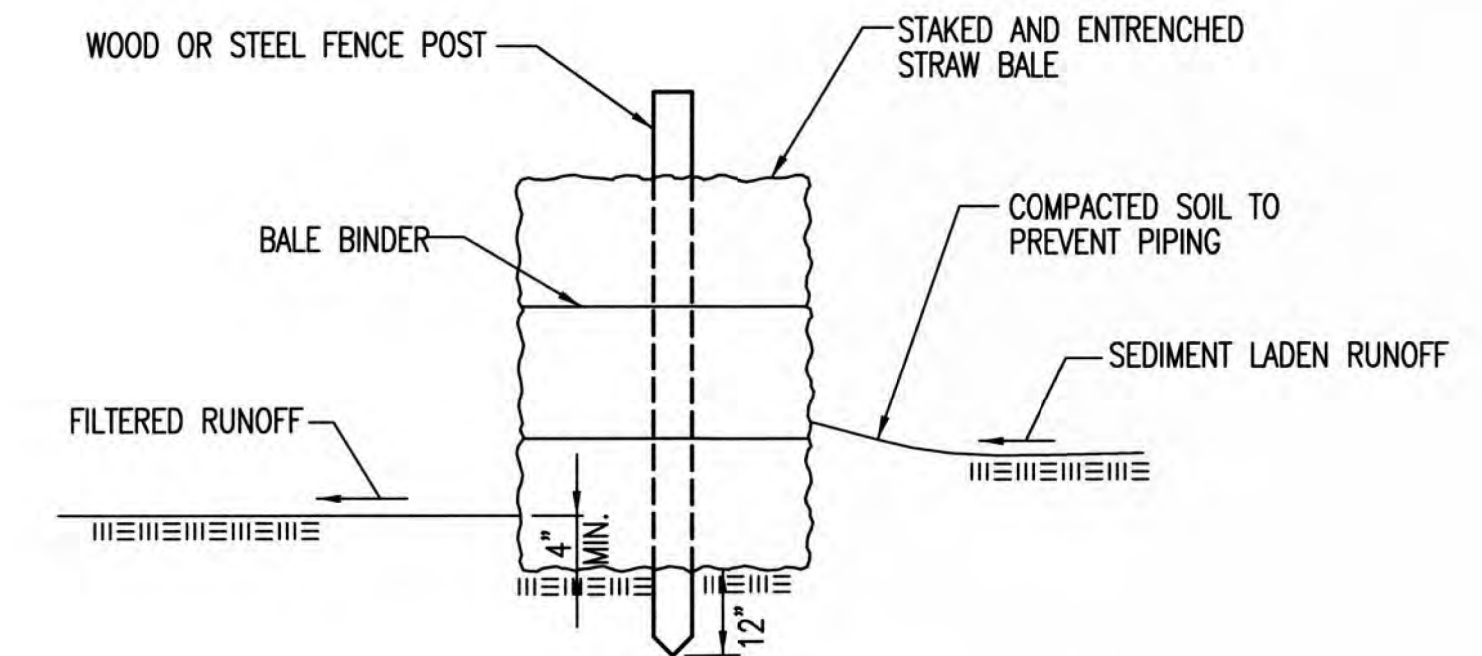
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- DOES WATER FLOW UNDER THE AREA INLET BARRIER?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS. DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
- ARE ANY BALES DISLODGED?
- ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

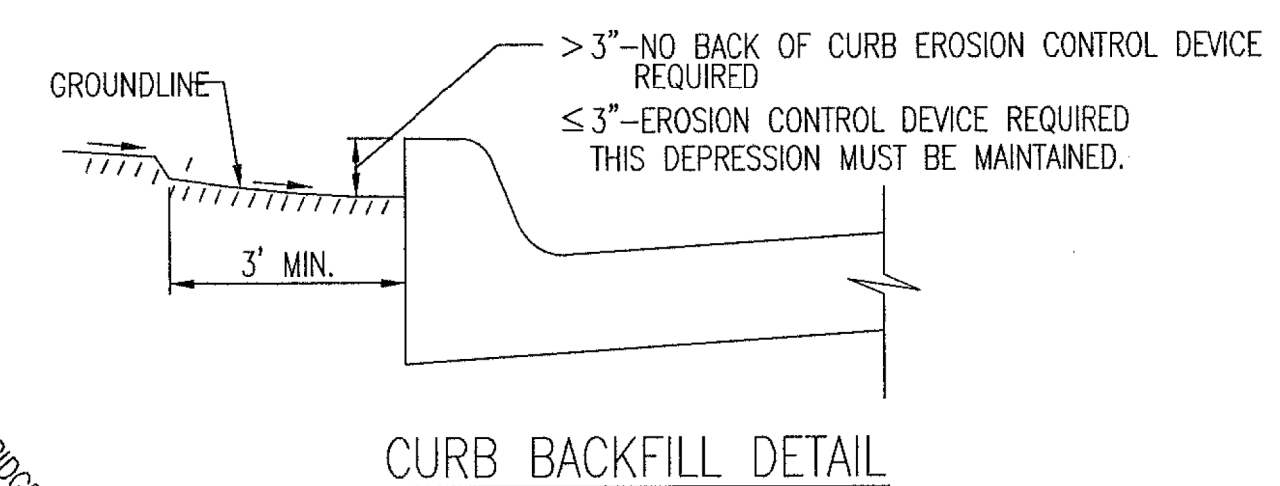
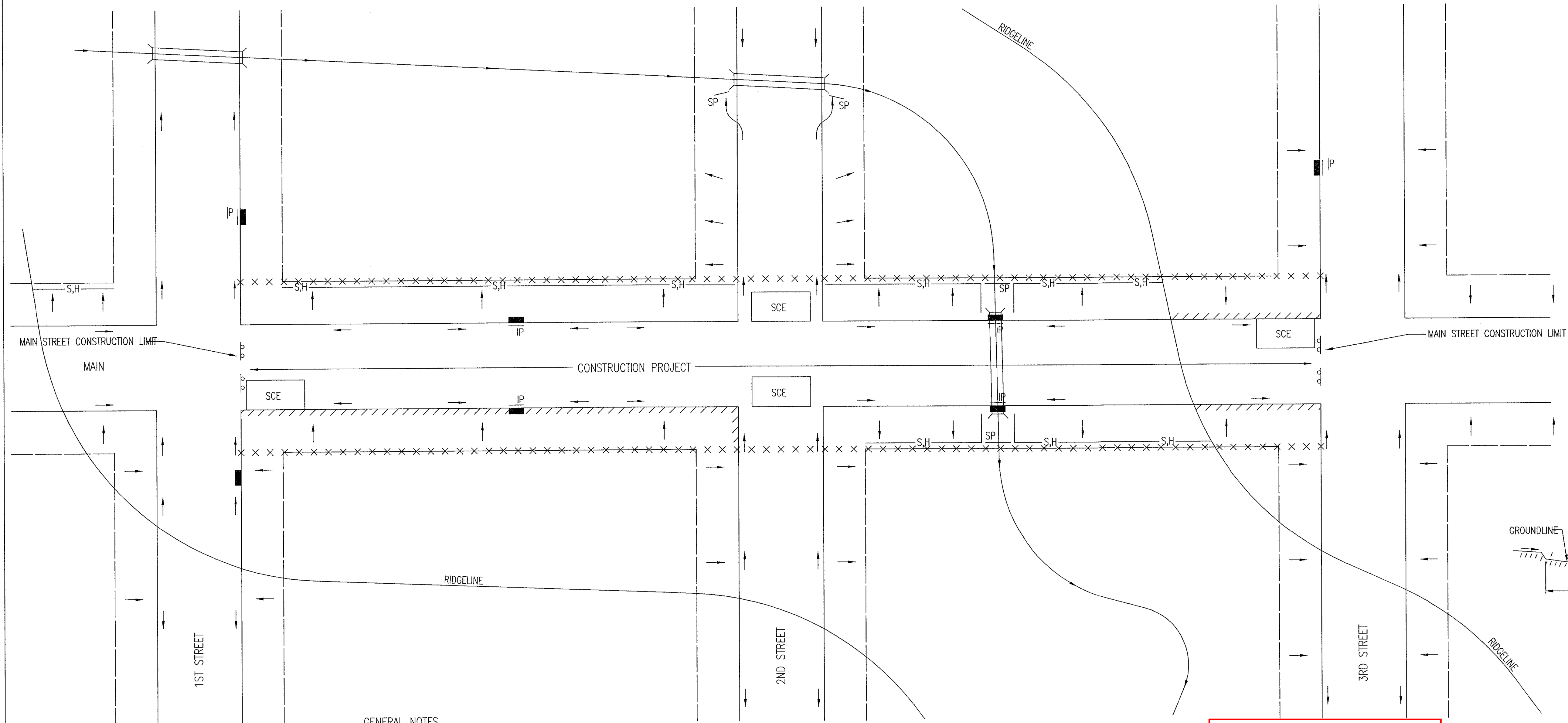
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STRAW BALE DITCH CHECK AND BARRIER DETAILS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 2129	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET EC103

GENERAL NOTES

- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
- IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
- FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
- FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

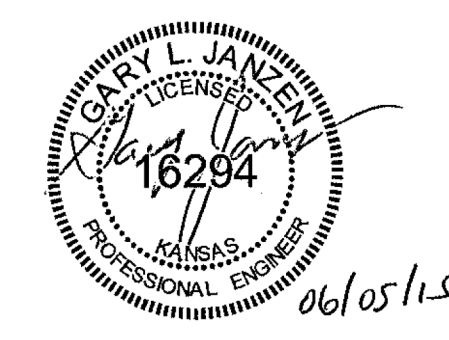
LEGEND

--- R-O-W LIMITS
→ DRAINAGE FLOW PATH
× × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
■ STORM WATER INLETS
IP INLET PROTECTION
S,H SILT FENCE OR HAY BALE BARRIER
SP STREAM PROTECTION
SCE STABILIZED CONSTRUCTION ENTRANCE
//// BACK OF CURB PROTECTION

GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
- THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
- INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
- ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
- THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:
 - THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)
 - THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.
 - ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.
 - SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

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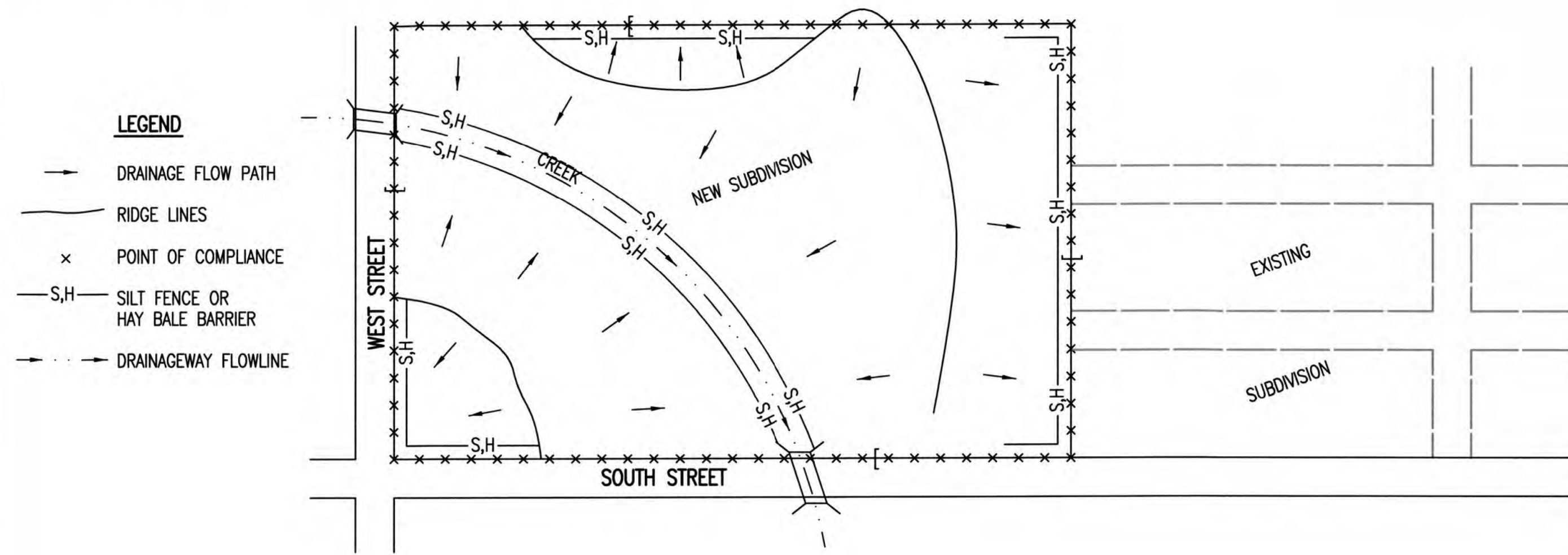


CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

REVISION: JUNE 2015

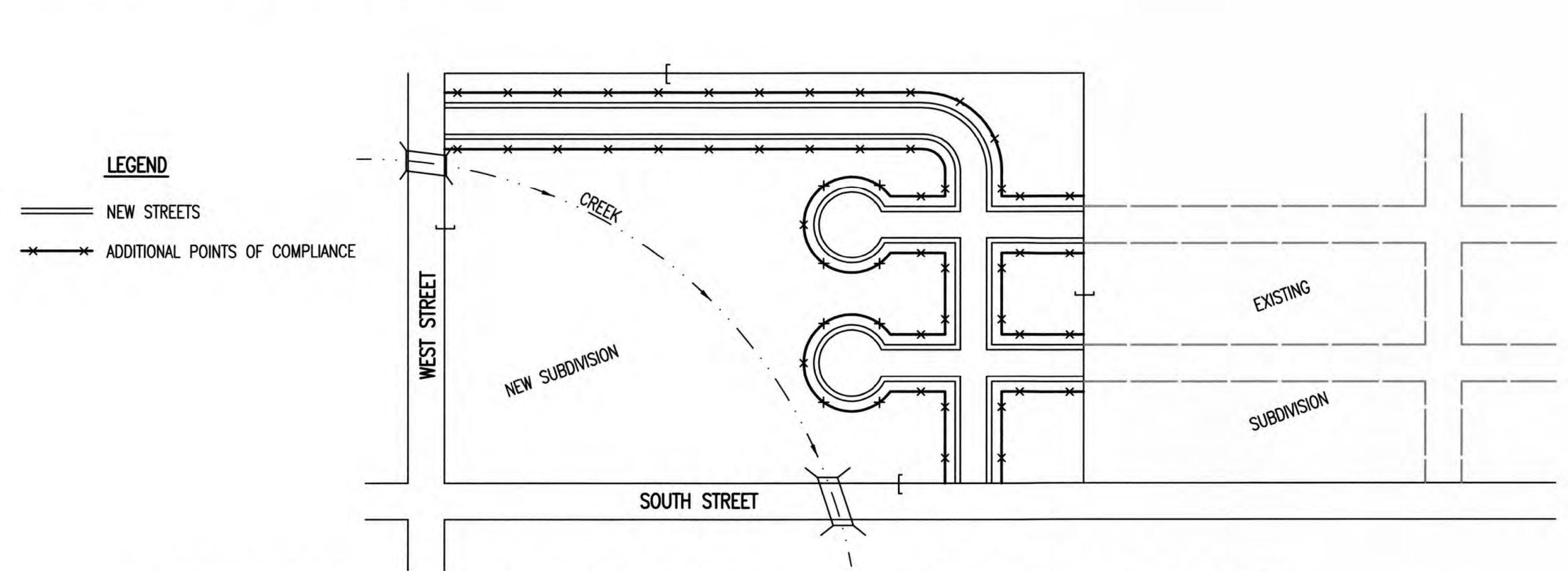
STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 2129	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET EC104

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



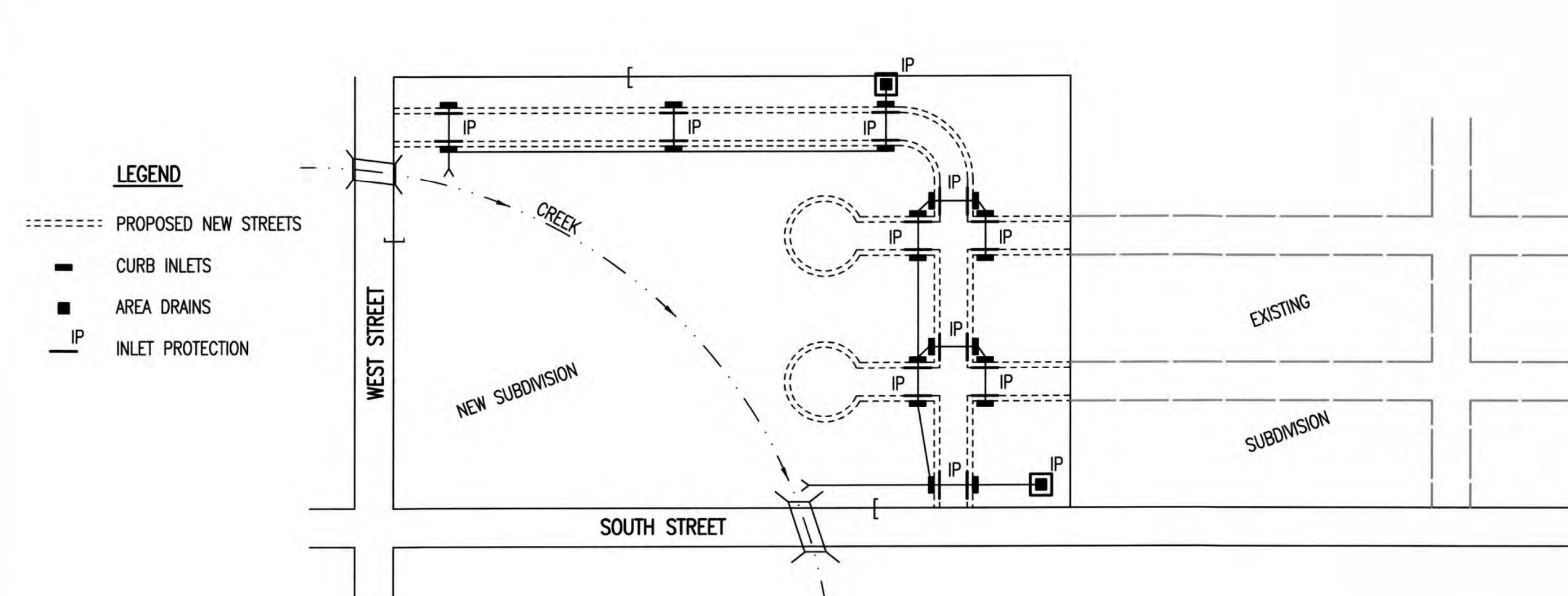
- LEGEND**
- DRAINAGE FLOW PATH
 - RIDGE LINES
 - × POINT OF COMPLIANCE
 - S,H- SILT FENCE OR HAY BALE BARRIER
 - - - DRAINAGEWAY FLOWLINE
- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
 - HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
 - SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
 - ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
 - CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
 - UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
 - IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
 - WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 3 – STREET CONSTRUCTION



- LEGEND**
- NEW STREETS
 - × ADDITIONAL POINTS OF COMPLIANCE
- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
 - CURB OPENING INLET PROTECTION:
 - A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
 - B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
 - EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
 - SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
 - THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
 - THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
 - THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

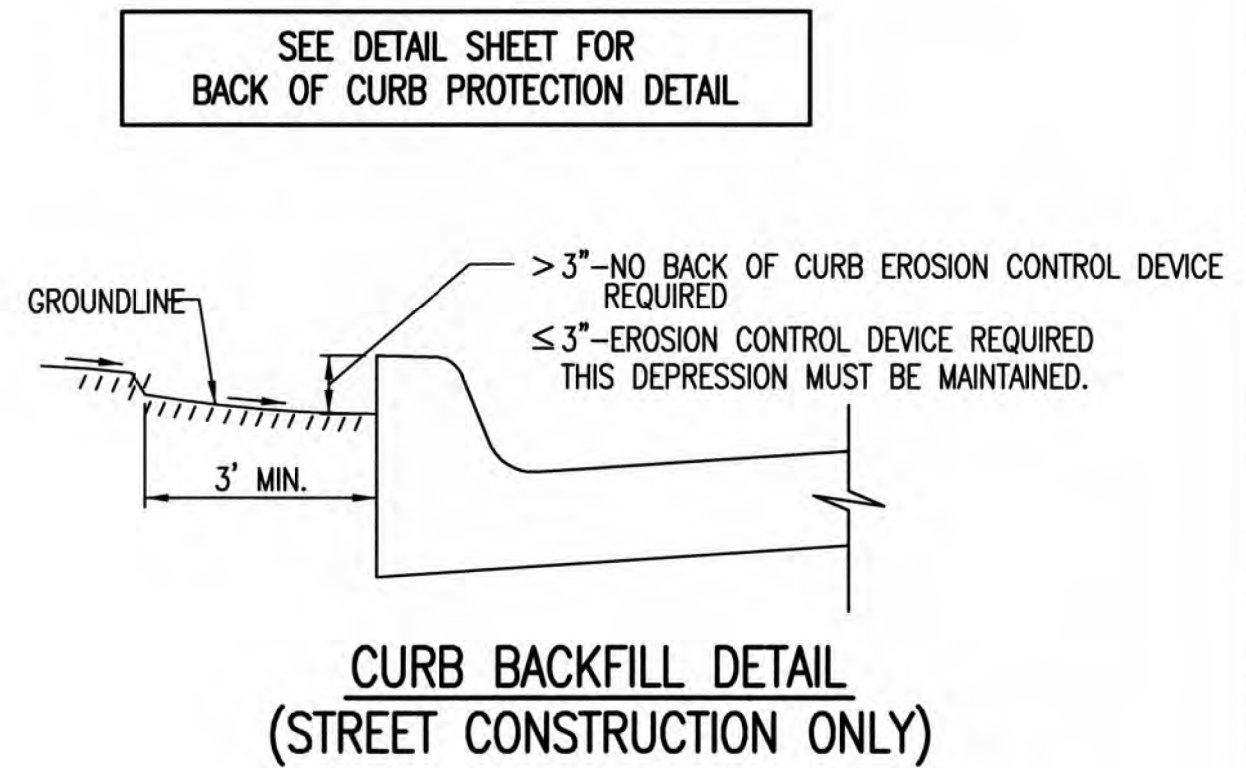
PHASE 2 – INSTALLATION OF STORM SEWER



- LEGEND**
- - - PROPOSED NEW STREETS
 - CURB INLETS
 - AREA DRAINS
 - IP- INLET PROTECTION
- DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
 - AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
 - AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
 - CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
 - THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
 - THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
 - ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
 - ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

GENERAL NOTES

- THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER DRAINAGE FEATURE.
- THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
- PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
- THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
- FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
- FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
- THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
- A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.



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THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SUBDIVISION DEVELOPMENT PROCESS		
CITY ENGINEER		
GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
2129		
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR		EC105
455 NORTH MAIN STREET		
WICHITA, KANSAS 67202-1620		
(316) 268-4501		