

GENERAL NOTES

- Utility service lines, poles, valves boxes, meters, and etceteras 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.
- The Contractor will be required to provide a minimum advance notice of two (2) working days to utility companies prior to excavation or working adjacent to utilities.
 Kansas One-Call 687-2470
 Wichita Water Department (For Private City Utilities) 268-4555
 Wichita Park Maintenance Department (For Irrigation) 350-3171
- 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 that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
- Contractor shall be responsible for implementing erosion control methods during construction to prevent unnecessary silt/sediment discharge through downstream properties and/or sewer systems. Contractor shall install and maintain erosion controls as needed during construction. These controls may include but not be limited to: straw wattles, silt fences, temporary mulching or other controls necessary to inhibit sediment runoff during construction.
- Unless otherwise noted, all work and materials shall conform to the appropriate sections of the 1990 edition "Standard Specifications for the State Road and Bridges Construction" by the Kansas Department of Transportation.
- Prior to bidding the project, each bidder shall visit the site and satisfy himself of surface & subsurface conditions. Each bidder shall also fully inform himself as to the extent of the scope of work to be performed.
- The Contractor shall comply with all applicable safety regulations.
- All Concrete Pavement shall be reinforced with wire mesh. Wire mesh shall be SUBSIDIARY to the Concrete Sidewalk Pavement Bid Item.
- Seeding shall be done using 1lbs/1,000 sq. ft. annual rye (PLS) mixed with 2lbs/1,000 sq. ft. buffalograss (PLS), variety to be approved by Park Department. The cost of seeding shall be SUBSIDIARY to "Seeding".
- All Elevations shown are based on NAVD 88 Datum.
- Proposed Paths to be Constructed Flush w/ Existing Surface Unless Otherwise Noted on Plans. Path Cross Slope to Match Existing Runoff Direction as Shown on Plans and at 2% Max.
- Excess Excavation to be Spread on Site in Areas Approved by the Parks Department and in Areas which maintain Positive Drainage throughout the Project Site.
- Excavation & Fill Required for Construction of the Proposed Trails shall be Incidental to the Path Material Bid Item.
- Bid Item "Removal of Existing Structures" to Cover Any Incidental Removal Necessary for Construction Not Noted in the Plans.
- Contractor shall be required to provide notice to Kansas One Call at 687-2470 a minimum of two (2) working days prior to any excavation or work adjacent to utilities.
- Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Local Manual on Uniform Traffic Control Devices.
- The Contractor shall verify all utility locations prior to construction of this project.
- Signing and striping shall be installed in accordance with Local City Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
- The Contractor shall receive written approval from adjacent landowners prior to proceeding with any construction work on landowner's property.
- 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 SUBSIDIARY to the lump sum Bid Item "Traffic Control".
- Existing trees are to remain. Do not stockpile materials or park vehicles under the drip line.

COUNTRY ACRES DOG PARK IMPROVEMENTS

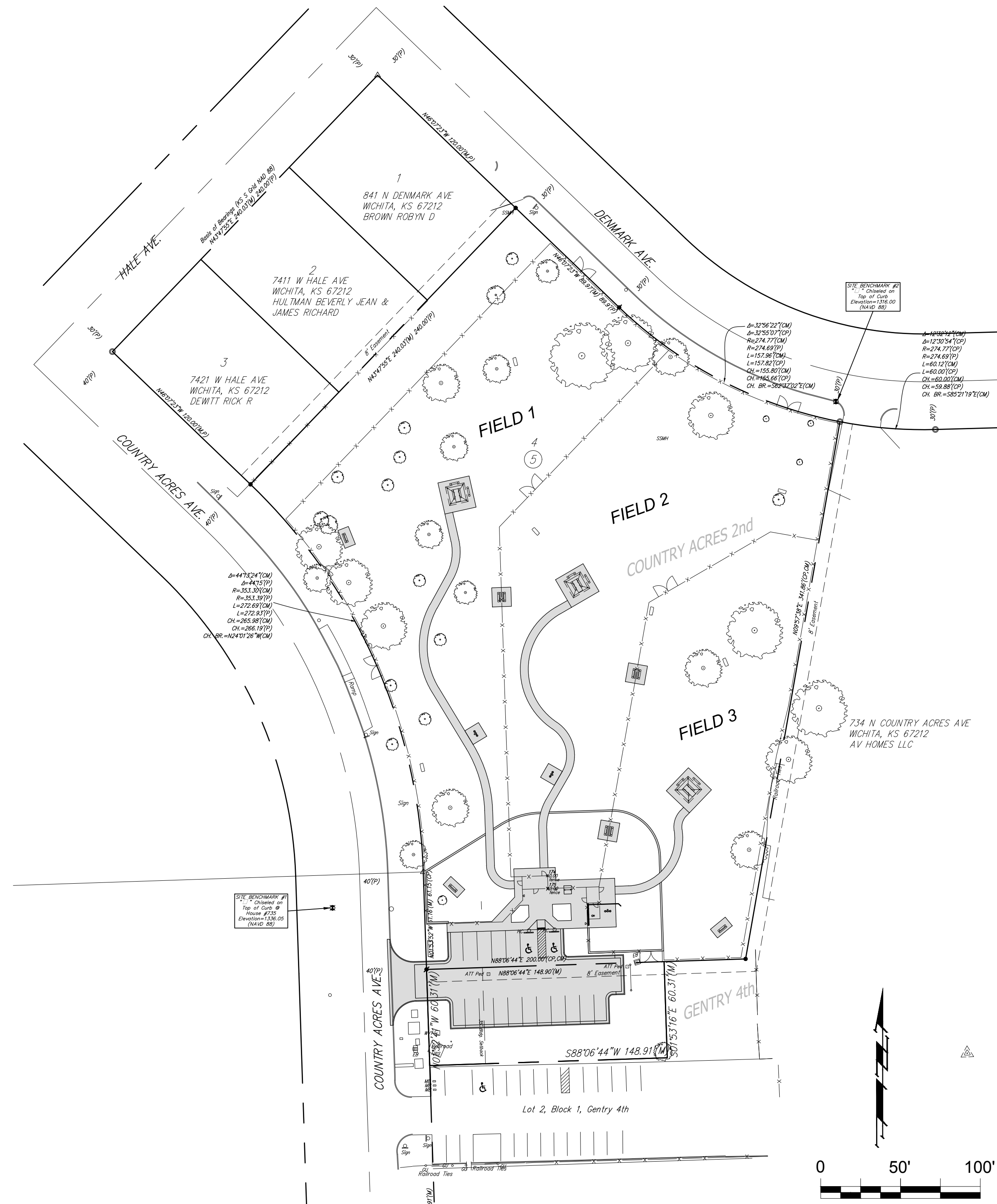
Country Acres Park CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E. City Engineer

Project Number: 482-11057

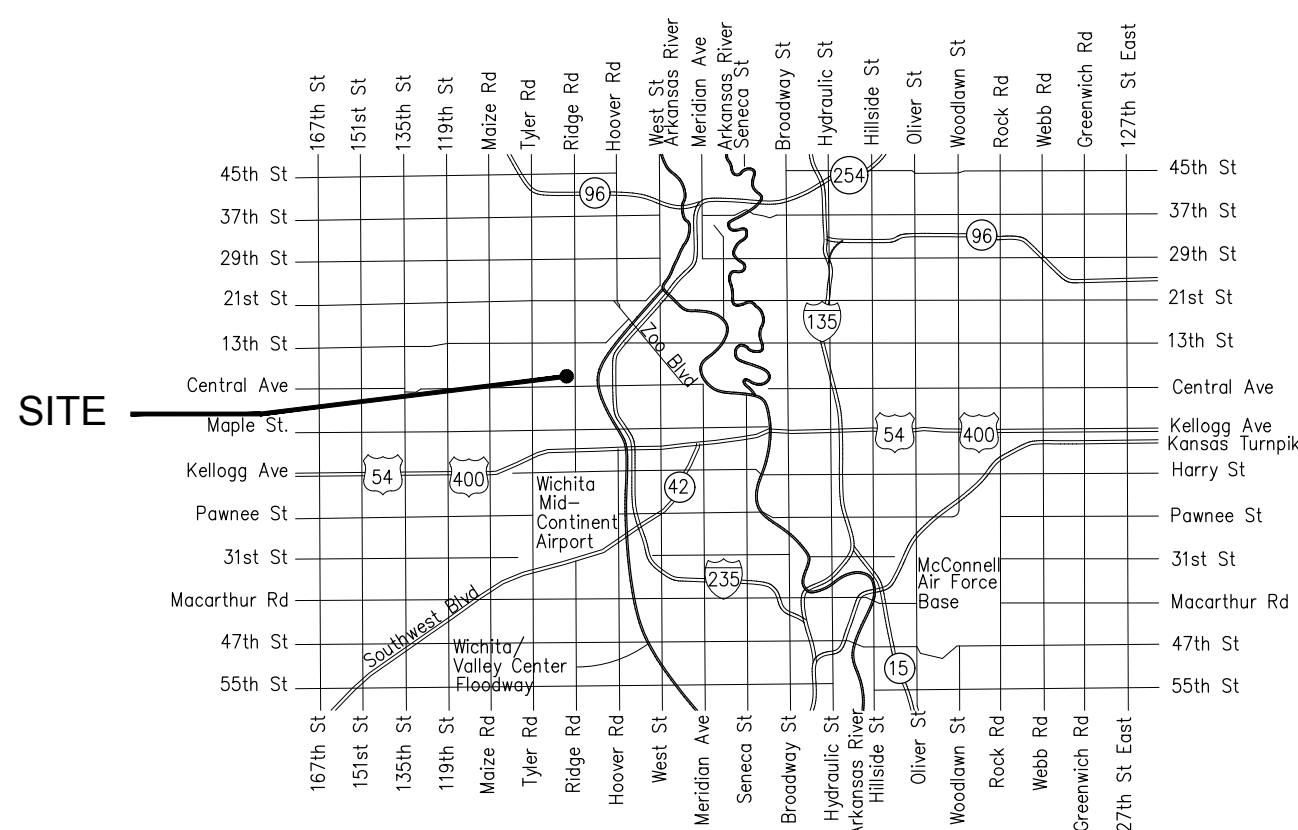
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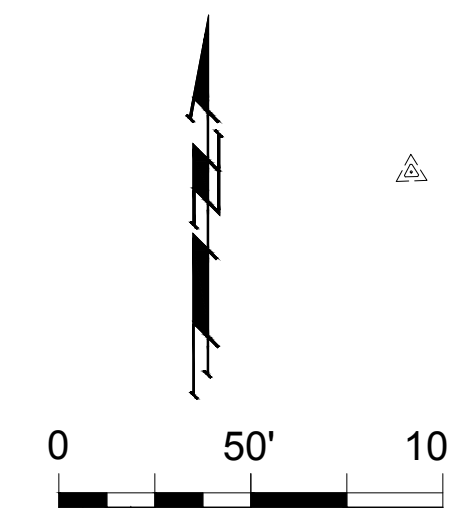


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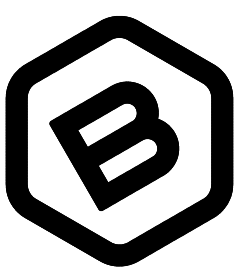


VICINITY MAP



BENCHMARKS

- Site Benchmark - 1
 "□" chiseled on top of curb at house # 735.
 Elevation = 1336.05 (NAVD 88)
- Site Benchmark - 2
 "□" chiseled on top of Denmark Ave. curb, NE corner of site.
 Elevation = 1316.00 (NAVD 88)



**BAUGHMAN
COMPANY**

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



COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572

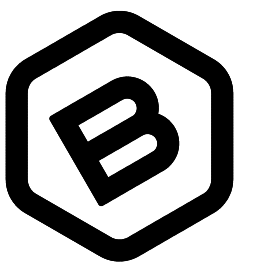
DESIGN: AH DRAWN: AH
DATE: 05/01/2024

**COVER
SHEET**

1 of 20

Point Table			
Point #	Row Description	Northing	Easting
98	BM	1689043.8291	1622493.2104
74	fence	1688695.3494	1622433.7182
10	R4-SRB	1689031.1511	1622495.7370
99	BM	1688726.4584	1622177.7969
75	fence	1688693.7600	1622385.4999
11	R4-SRB	1689026.2924	1622555.5413
84	fence gate	1688878.6937	1622206.4029
20	IP-3-4	1688748.9834	1622234.6883
85	fence	1688739.6394	1622344.7534
21	R4	1688687.8553	1622236.7137
78	fence	1688697.8984	1622338.1249
14	R4	1689102.8079	1622357.3953
87	fence	1688745.8232	1622289.5197
23	r5-grb	1688363.1215	1622247.3621
88	fence	1688965.2081	1622282.2884
24	IP-3-4	1689248.3434	1622206.0394
107	ctr field 2 walk curve	1688876.0786	1622340.4878
299	bm	1688726.4600	1622177.8000
57	bench pad	1688958.6539	1622186.6800
58	bench pad	1688921.2602	1622283.7370
59	bench pad	1688873.1077	1622368.1928
60	bench pad	1688774.6150	1622350.8957
61	bench pad	1688714.1000	1622421.4377
62	bench pad	1688739.4946	1622253.9224
63	drinking ftn	1688835.7183	1622267.5742
64	drinking ftn	1688810.1394	1622314.9614
65	drinking ftn	1688724.3422	1622350.2603
66	drinking ftn	1688721.4849	1622340.6607
67	fence	1688970.1782	1622148.5075
68	fence	1689142.9618	1622314.1927
69	fence gate	1689124.8483	1622333.0307
70	fence	1689102.0868	1622356.7025
71	fence gate	1689038.6772	1622462.5449
72	fence	1689030.3571	1622494.5823
73	fence	1688956.8774	1622481.6779
76	fence	1688699.4537	1622385.3123
77	fence	1688699.1902	1622377.3166
110	denmark fence ctr	1689300.9503	1622547.7559
10158	MH	1689007.4069	1622249.3534
79	fence	1688739.3759	1622336.7577
80	fence	1688738.0581	1622296.7794
81	fence	1688717.6337	1622284.2322
82	fence	1688716.0696	1622236.7794
83	fence	1688749.0165	1622235.6878
86	fence	1688746.0538	1622296.5159
89	fence	1689075.8780	1622388.4117
90	fence	1688917.8876	1622376.0570
91	fence gate	1688924.9184	1622388.1635
92	fence	1688962.0666	1622452.1301
93	fence gate	1688988.6659	1622304.7825
94	ctr field 1 walk curve	1688753.3191	1622289.2726
95	ctr field 1 walk curve	1688784.8172	1622193.1828
96	ctr field 1 walk curve	1688890.2114	1622287.1799
97	ctr field 1 walk curve	1688949.5109	1622222.7816
105	ctr field 2 walk curve	1688777.0077	1622342.0208
106	ctr field 2 walk curve	1688821.9695	1622304.4710
108	ctr field 3 walk curve	1688770.2319	1622362.2346
109	ctr field 3 walk curve	1688777.0965	1622406.7080
111	country acres fence ctr	1688737.3522	1621881.9359
112	field 1 wk	1688752.9897	1622279.2780
113	field 1 wk	1688787.6174	1622278.1366
114	field 1 wk	1688828.8513	1622265.8876
115	field 1 wk	1688837.4048	1622260.7072
116	field 1 wk	1688864.3090	1622244.4125
117	field 1 wk	1688914.2978	1622243.3641
118	field 1 wk	1688932.6503	1622253.4528
119	field 1 wk	1688957.1399	1622256.9401

120	field 1 wk	1688974.3762	1622253.0905
121	field 2 wk	1688751.4299	1622307.8449
122	field 2 wk	1688775.8547	1622307.0398
123	field 2 wk	1688794.5077	1622311.7099
124	field 2 wk	1688803.3092	1622316.7915
125	field 2 wk	1688811.9695	1622321.7915
126	field 2 wk	1688838.6184	1622315.5531
127	field 2 wk	1688877.4542	1622295.5088
128	field 2 wk	1688914.9924	1622317.8888
129	field 2 wk	1688919.1369	1622325.0254
130	field 3 wk	1688739.9688	1622354.7479
131	field 3 wk	1688740.2482	1622363.2229
132	field 3 wk	1688751.0814	1622385.3271
133	field 3 wk	1688774.8063	1622391.8835
134	field 3 wk	1688787.4784	1622395.8813
135	field 3 wk	1688789.4571	1622397.7788
136	parking lot	1688652.8268	1622215.5739
137	parking lot	1688668.3227	1622230.0713
138	parking lot	1688668.9311	1622248.5305
139	parking lot	1688666.0316	1622251.6277
140	parking lot	1688651.0397	1622252.1219
141	parking lot	1688654.3011	1622351.0681
142	parking lot	1688669.2930	1622350.5740
143	parking lot	1688672.3902	1622353.4735
144	parking lot	1688672.6208	1622360.4697
145	parking lot	1688696.6078	1622359.6791
146	parking lot	1688695.4877	1622325.6975
147	parking lot	1688698.3872	1622322.6003
148	parking lot	1688713.3791	1622322.1062
149	parking lot	1688711.0072	1622250.1452
150	parking lot	1688696.0153	1622250.6394
151	parking lot	1688692.9181	1622247.7399
152	parking lot	1688692.3025	1622229.0639
153	parking lot	1688706.7905	1622213.5782
154	parking lot driveway ctr	1688707.2944	1622228.5697
155	parking lot driveway ctr	1688653.3308	1622230.5655
156	field 1 wk	1688977.6458	1622267.7298
157	field 1 wk	1688997.1649	1622263.3703
158	field 1 wk	1688992.8054	1622243.8512
159	field 2 wk	1688932.1082	1622317.4924
160	field 2 wk	1688942.1522	1622334.7875
161	field 2 wk	1688924.8572	1622344.8315
162	field 3 wk	1688799.8390	1622386.9521
163	field 3 wk	1688814.2746	1622400.7946
164	field 3 wk	1688800.4321	1622415.2302
165	mow strip	1688758.9215	1622383.3521
166	mow strip arc ctr	1688757.9331	1622353.3684
167	mow strip	1688787.9169	1622352.3801
168	mow strip	1688786.4400	1622307.5741
169	mow strip	1688778.9213	1622282.8083
171	mow strip	1688749.5929	1622235.6680
172	fence	1688731.2750	1622297.0030
173	fence	1688719.6503	1622345.4122
174	fence	1688746.5809	1622312.5072
175	fence	1688738.5852	1622312.7707



**BAUGHMAN
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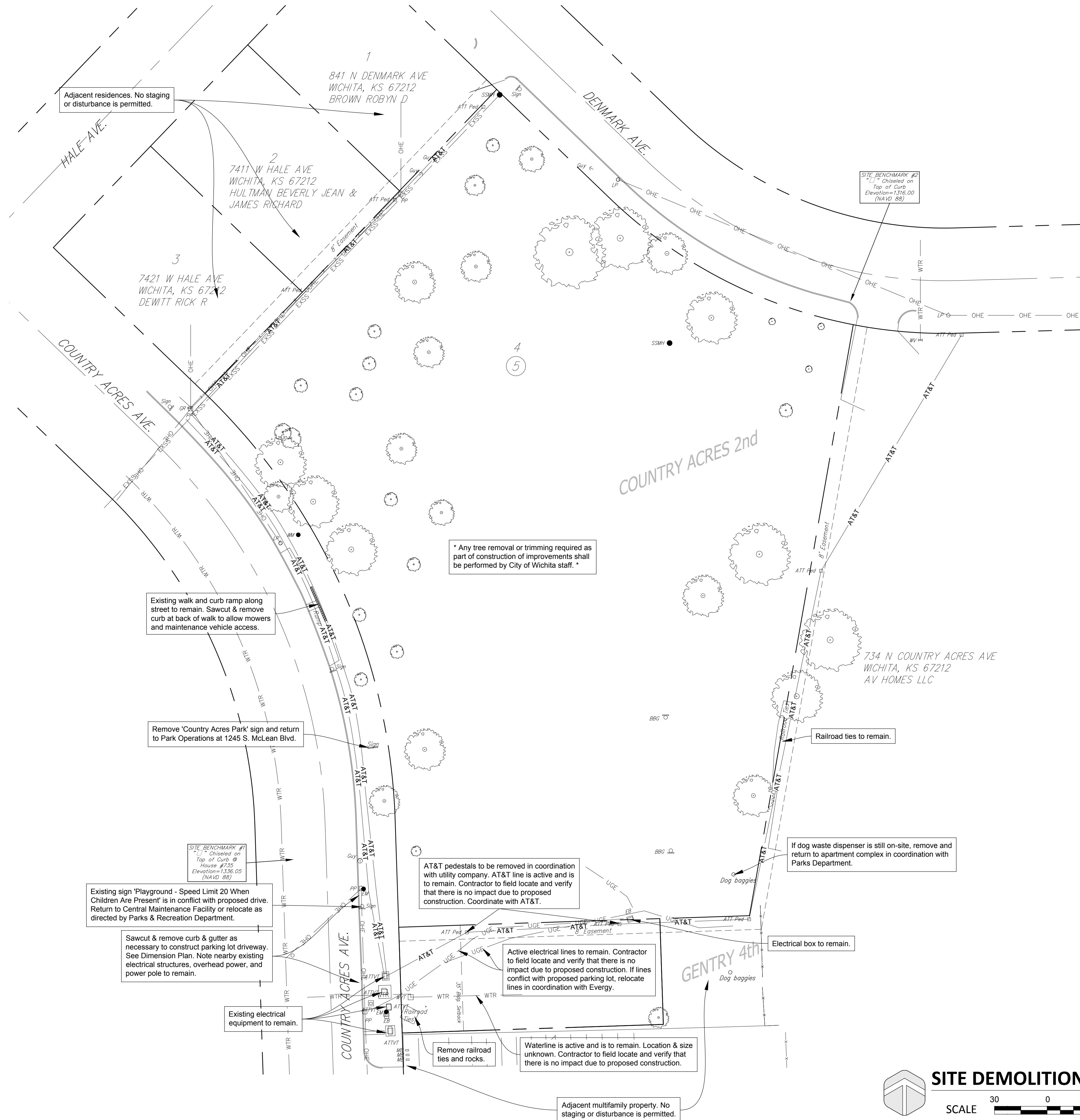
COUNTRY ACRES DOG PARK

754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH
DATE: 05/01/2024

**CONTROL &
COORDINATES**



Adjacent residences. No staging or disturbance is permitted.

7411 W HALE AVE
WICHITA, KS 67212
HULTMAN BEVERLY JEAN &
JAMES RICHARD

7421 W HALE AVE
WICHITA, KS 67212
DEWITT RICK R

841 N DENMARK AVE
WICHITA, KS 67212
BROWN ROBYN D

SITE BENCHMARK #2
Chiseled on
Top of Curb
Elevation=1376.00
(NAVD 88)

* Any tree removal or trimming required as part of construction of improvements shall be performed by City of Wichita staff. *

Existing walk and curb ramp along street to remain. Sawcut & remove curb at back of walk to allow mowers and maintenance vehicle access.

Remove 'Country Acres Park' sign and return to Park Operations at 1245 S. McLean Blvd.

SITE BENCHMARK #1
Chiseled on
Top of Curb @
House #735
Elevation=1336.05
(NAVD 88)

Existing sign 'Playground - Speed Limit 20 When Children Are Present' is in conflict with proposed drive. Return to Central Maintenance Facility or relocate as directed by Parks & Recreation Department.

Sawcut & remove curb & gutter as necessary to construct parking lot driveway. See Dimension Plan. Note nearby existing electrical structures, overhead power, and power pole to remain.

Existing electrical equipment to remain.

AT&T pedestals to be removed in coordination with utility company. AT&T line is active and is to remain. Contractor to field locate and verify that there is no impact due to proposed construction. Coordinate with AT&T.

Active electrical lines to remain. Contractor to field locate and verify that there is no impact due to proposed parking lot, relocate lines in coordination with Evergy.

Remove railroad ties and rocks.

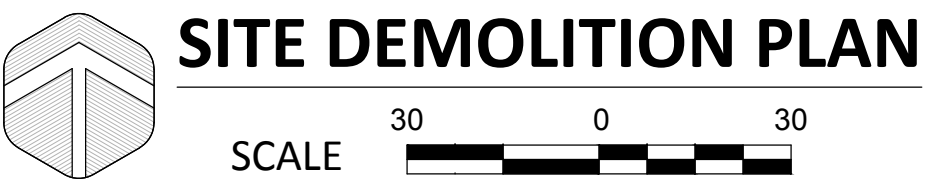
Waterline is active and is to remain. Location & size unknown. Contractor to field locate and verify that there is no impact due to proposed construction.

Adjacent multifamily property. No staging or disturbance is permitted.

Railroad ties to remain.

If dog waste dispenser is still on-site, remove and return to apartment complex in coordination with Parks Department.

Electrical box to remain.



LEGAL DESCRIPTION

Part of Lot 4, Block 5, Country Acres Second Addition, Sedgwick County, Kansas, and Part of Lot 2, Block 1, Gentry 4th Addition, Wichita, Sedgwick County, Kansas.

SITE INFORMATION

Total Area:	±118,613.86 sq. ft. (2.72 acres)
Disturbed Area:	±51,827 sq. ft. (1.19 acres)
Impervious Area, pre-const:	±16,645 sq. ft. (0.38 acres)
Impervious Area, post-const:	±13,976 sq. ft. (0.32 acres)

BENCHMARKS

- Site Benchmark - 1
" " chiseled on top of curb at house # 735.
Elevation = 1336.05 (NAVD 88)
- Site Benchmark - 2
" " chiseled on top of Denmark Ave. curb, NE corner of site.
Elevation = 1316.00 (NAVD 88)

KANSAS ONE CALL

Contractor shall be required to provide notice to Kansas One Call at 287-2470 a minimum of three (3) working days prior to any excavation or work adjacent to utilities.
Kansas One Call 1-800-DIG-SAFE

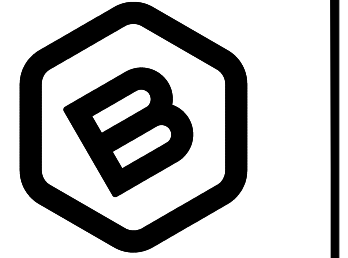
UTILITY CONTACTS

The Contractor must notify the following in case of an emergency:

Kansas Gas Service (Gas)	1-888-482-4950
Black Hills Energy (Gas)	1-800-303-0357
Evergy (Electric)	383-8650
Cox Communications (Telecommunication)	262-4270
AT&T (Telecommunication)	268-2759
City of Wichita Water Dept. (Water)	268-4563 or 268-4908
City of Wichita Sewer Maint. (San. Sewer)	268-4024 or 262-6000
City of Wichita Storm Sewer Maint. (Storm Sewer)	268-4090
City of Wichita Traffic Maint. (Traf. Control)	268-4034 or 268-4203
Conoco Pipeline Co. (Petroleum)	1-800-231-2551

DEMOLITION NOTES

- Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
 - Traffic affected by construction on this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 - The Contractor shall provide appropriate signage throughout the sequence of construction clearly stating where construction entrances are.
 - The Contractor shall take all necessary precautions to protect the general public during the construction and demolition process. This may include the use of fences and signage.
 - The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.
- DEMOLITION**
- The Contractor shall dispose of all site debris and trash in addition to all removed materials in a safe, legal, and responsible manner.
 - The contractor shall remove all existing private signs and footings located on site as necessary for construction.
 - Where existing drive approaches are to be removed, the contractor shall construct new 6" concrete curb and gutter to match existing street. Removal includes base course.
 - All existing pavement on site shall be removed shall be removed and disposed of in a safe, legal, and responsible manner. Removal shall include base course and sub grade as necessary.
 - The Contractor shall coordinate with local utility company on the removal of electric service lines, meters and poles located on site. Contractor shall ensure that all services are located and accounted for before disconnections begin to ensure that adjacent businesses are not affected.
 - The Contractor shall coordinate with local gas utility on the removal of gas services and meters located on site. Contractor shall ensure that all services are located and accounted for before disconnections begin to ensure that adjacent businesses are not affected.
 - The Contractor shall coordinate with AT&T and any other on-site telecommunications providers on the removal of telecommunications services on site if called for. Contractor shall ensure that all services are located and accounted for before disconnections begin to ensure that adjacent businesses are not affected.



BAUGHMAN COMPANY

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316-262-7271
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754 N Country Acres Ave.
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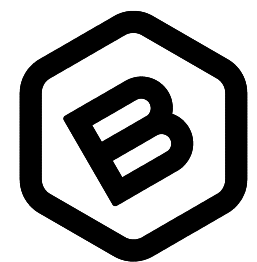
PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH

DATE: 05/01/2024

SITE DEMOLITION PLAN

File: E:\Projects\Country Acres 2nd Lot 4\Blk 5_23-08-E572\Engineering



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COUNTRY ACRES DOG PARK
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Wichita, KS 67212

LEGAL DESCRIPTION

Part of Lot 4, Block 5, Country Acres Second Addition, Sedgwick County, Kansas, and Part of Lot 2, Block 1, Gentry 4th Addition, Wichita, Sedgwick County, Kansas.

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UTILITY CONTACTS

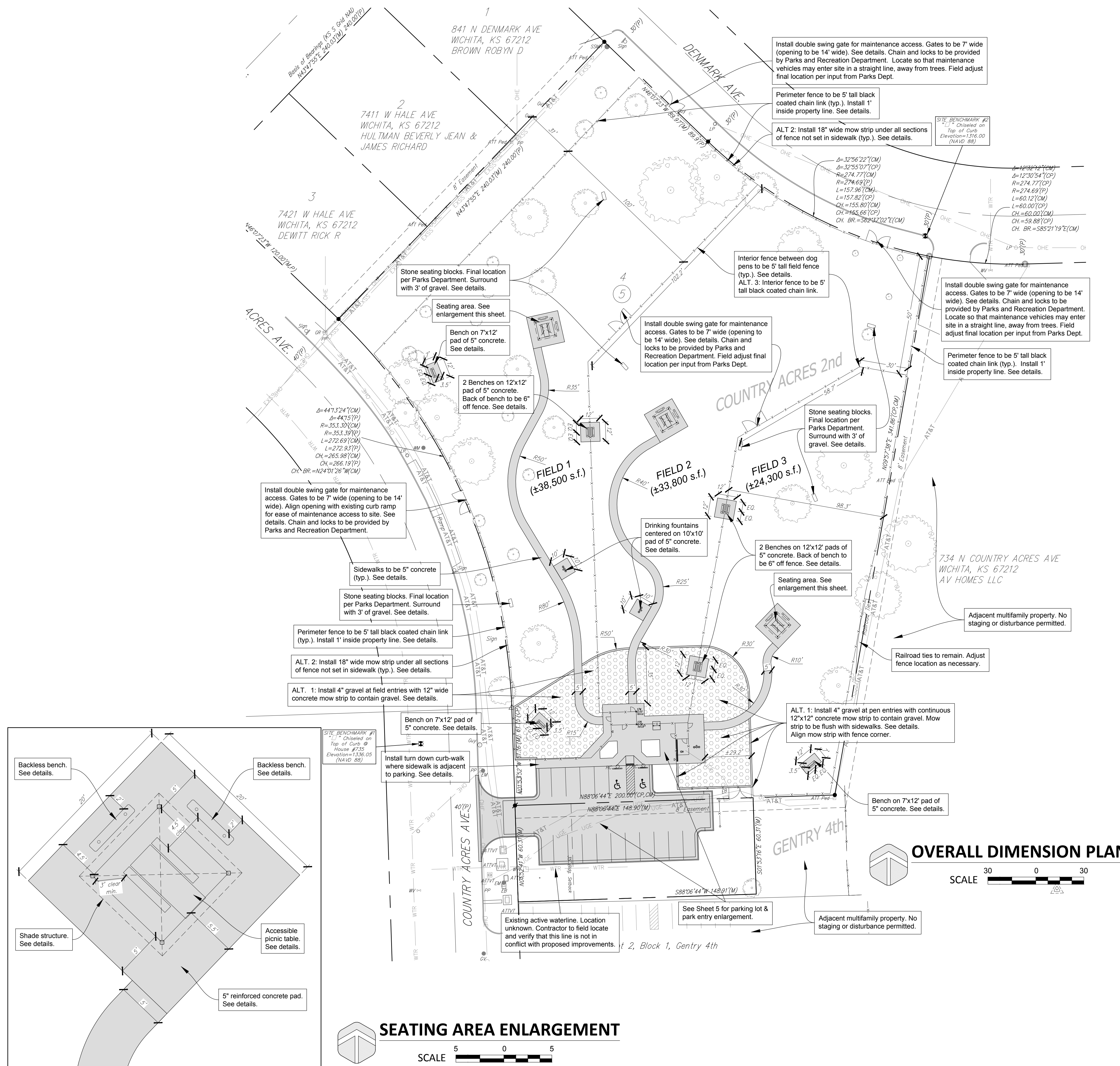
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AT&T (Telecommunication).....268-2759
City of Wichita Water Dept. (Water).....268-4563
or 268-4908
City of Wichita Sewer Maint. (San. Sewer).....268-4024
or 262-6000
City of Wichita Storm Sewer Maint. (Storm Sewer).....268-4090
City of Wichita Traffic Maint. (Traf. Control).....268-4034
or 268-4203
Conoco Pipeline Co. (Petroleum).....1-800-231-2551
Williams Pipeline Co. (Petroleum).....529-6600
or 1-800-324-9696
Phillips Pipeline Co. (Petroleum).....1-800-766-8230

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- The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.
- Signage and striping shall be installed in accordance with Local City Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
- Dimensions shown are to face of curb or edge of pavement unless otherwise noted.
- Metal signage on dog pens and kiosk information to be provided by City of Wichita.
- Art elements to be designed and located by others. Any art-related foundation design, electrical service, or other required elements to be by others.

ALTERNATES

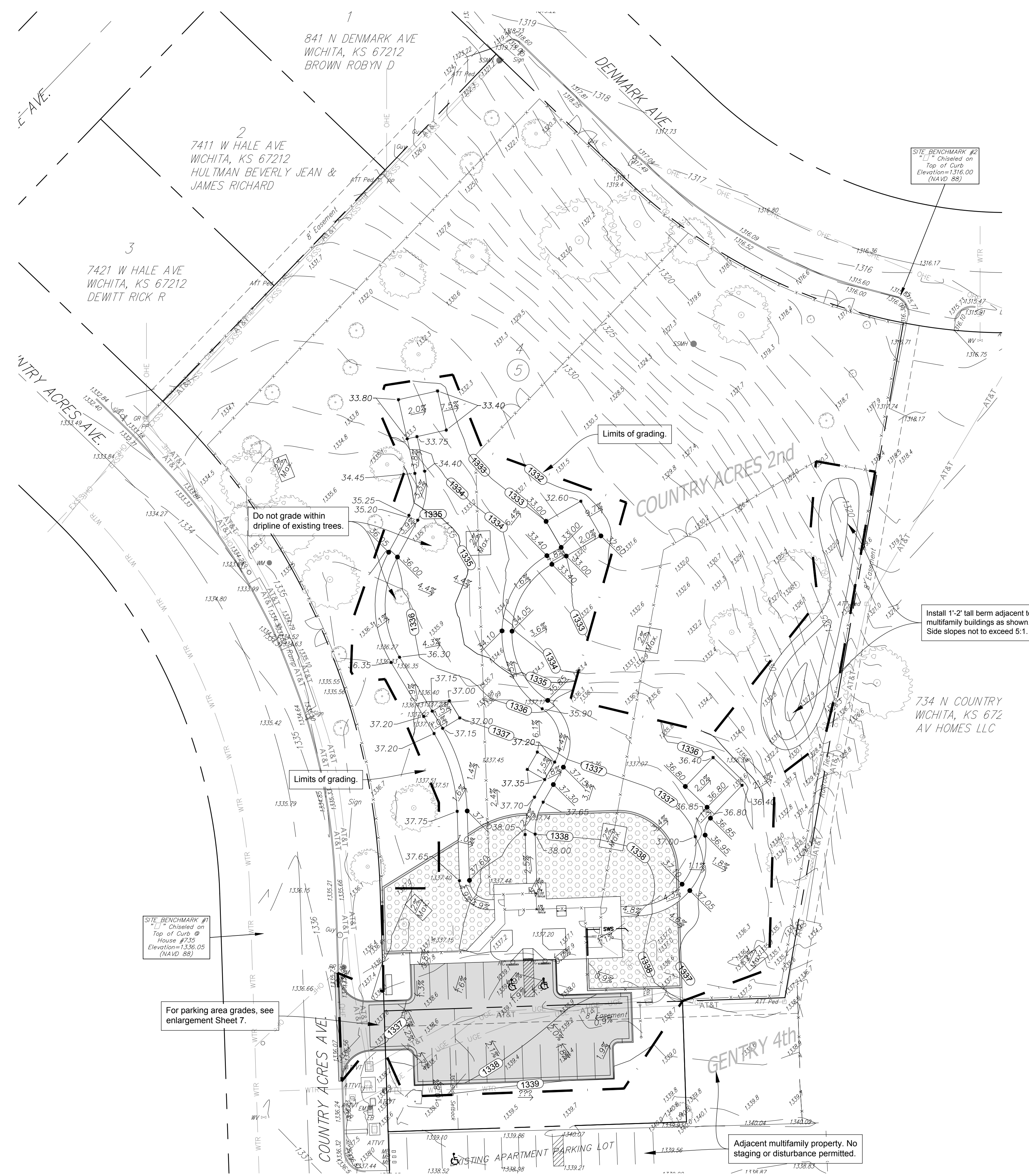
Alternate #1: Install gravel & mow strip near dog field entries.
Alternate #2: Install 18" mow strip under all sections of fence not set in sidewalks.
Alternate #3: Interior fences separating dog pens shall be 5' tall black coated chain link.



PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH
DATE: 05/01/2024

**SITE
DIMENSION
PLAN**



OVERALL SITE GRADING PLAN
 SCALE 30 0 30

LEGEND

	Existing Spot Elevations		
	Existing Contours		

LEGAL DESCRIPTION

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Impervious Area, pre-const:	±16,645 sq. ft. (0.38 acres)
Impervious Area, post-const:	±13,976 sq. ft. (0.32 acres)

BENCHMARKS

- Site Benchmark - 1
 "1" chiseled on top of curb at house # 735.
 Elevation = 1336.05 (NAVD 88)
- Site Benchmark - 2
 "2" chiseled on top of Denmark Ave. curb, NE corner of site.
 Elevation = 1316.00 (NAVD 88)

KANSAS ONE CALL

Contractor shall be required to provide notice to Kansas One Call at 287-2470 a minimum of three (3) working days prior to any excavation or work adjacent to utilities.

Kansas One Call 1-800-DIG-SAFE

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 - Black Hills Energy (Gas).....1-800-303-0357
 - Evergy (Electric).....383-8650
 - Cox Communications (Telecommunication).....262-4270
 - AT&T (Telecommunication).....268-2759
 - City of Wichita Water Dept. (Water).....268-4563
or 268-4908
 - City of Wichita Sewer Maint.(San. Sewer).....268-4024
or 262-6000
 - City of Wichita Storm Sewer Maint. (Storm Sewer).....268-4090
 - City of Wichita Traffic Maint.(Traf. Control).....268-4034
or 268-4203
 - Conoco Pipeline Co. (Petroleum).....1-800-231-2551
 - Williams Pipeline Co. (Petroleum).....529-6600
or 1-800-324-9696
 - Phillips Pipeline Co. (Petroleum).....1-800-766-8230

GRADING NOTES

1. Existing utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
2. Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Local Manual on Uniform Traffic Control Devices.
3. The Contractor shall verify all utility locations prior to construction of this project.
4. Refer to Landscape Plan for final treatment of all disturbed areas.
5. Signing and striping shall be installed in accordance with local City Specifications and Codes. Striping shall be painted markings in conformance with the latest edition of the Standard Specifications for State Road and Bridge Construction by the Kansas Department of Transportation.
6. Paved Lot to be constructed with Paving as shown. See Architectural Site Plan and Geotechnical Report for Pavement and subgrade details.
7. The Contractor shall notify adjacent landowners prior to proceeding with any construction work on landowner's property.
8. Cross-Slopes on sidewalks shall not exceed 1/4" per foot (or 2%). Notify Engineer of any discrepancies prior to forming of walks. Longitudinal slopes that exceed 5% will be considered ramps and will require handrails and edge protection per ADA.
9. The final grade of all non-paved areas adjacent to the building shall be set at least 0.4' Below FFE, unless otherwise noted.
10. Contours and slope arrows are computer generated and are schematic in nature. Spot grades and notes from the stamped plans in addition to ADA guidelines shall govern construction.
11. Proposed site grading shall not cause significant additional adverse impacts on adjacent property.
12. Note that existing contours shown reflect site before removal of sport courts.

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 316-262-7271
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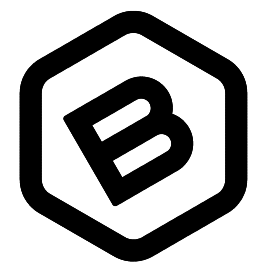
AARON HARNEDE
 LICENSED
 886
 05/01/2024
 KANSAS
 LANDSCAPE ARCHITECT

COUNTRY ACRES DOG PARK
 754 N Country Acres Ave.
 Wichita, KS 67212

PROJECT NUMBER:
 23-08-E572
 DESIGN: AH DRAWN: AH
 DATE: 05/01/2024

SITE GRADING PLAN

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COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH
DATE: 05/01/2024

SITE
GRADING
PLAN

7 of 20

LEGAL DESCRIPTION

Part of Lot 4, Block 5, Country Acres Second Addition, Sedgwick County, Kansas, and Part of Lot 2, Block 1, Gentry 4th Addition, Wichita, Sedgwick County, Kansas.

SITE INFORMATION

Total Area: ±118,613.86 sq. ft. (2.72 acres)
Disturbed Area: ±51,827 sq. ft. (1.19 acres)
Impervious Area, pre-const: ±16,645 sq. ft. (0.38 acres)
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KANSAS ONE CALL

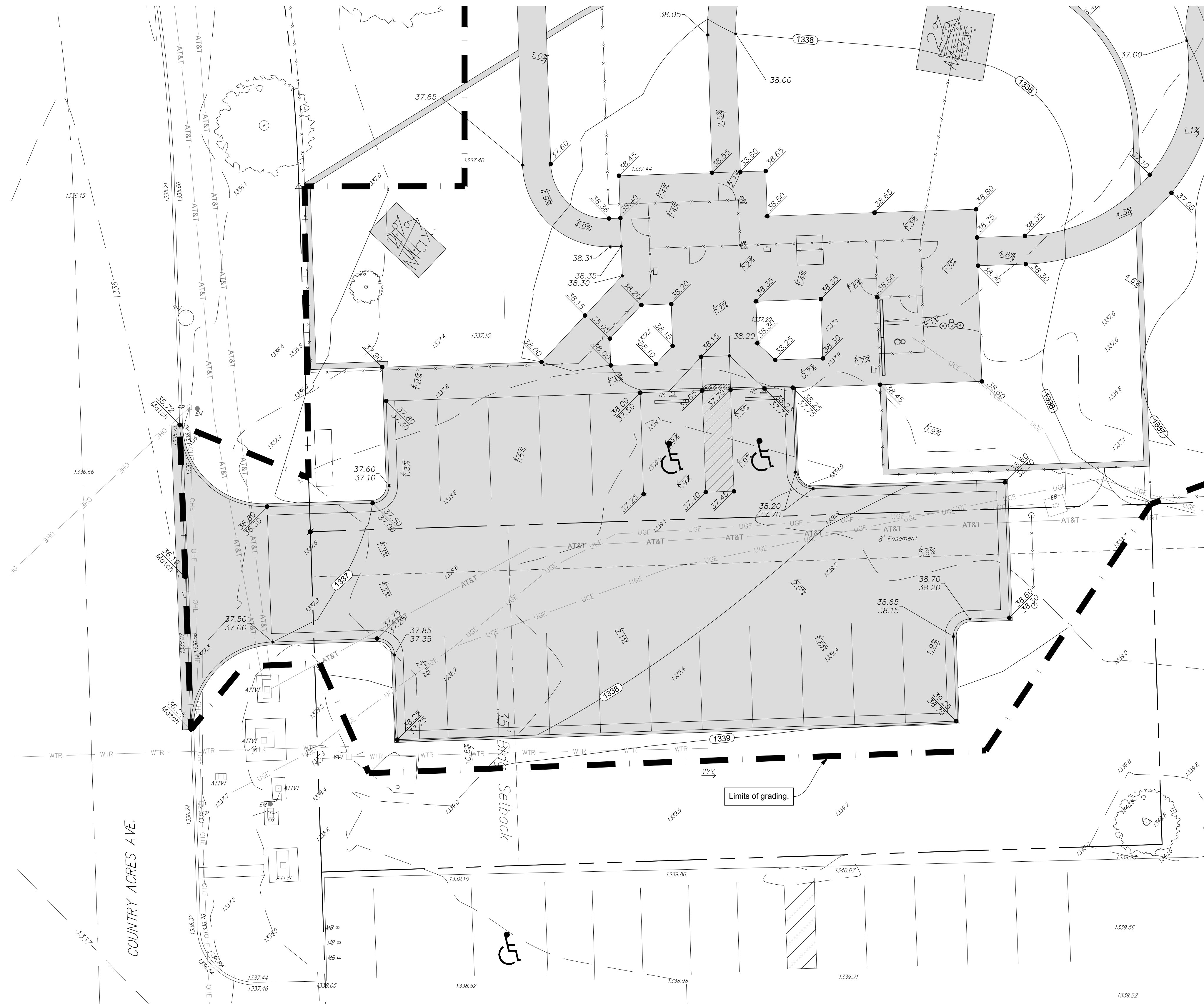
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Energry (Electric).....383-8650
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Williams Pipeline Co. (Petroleum).....529-6600
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Phillips Pipeline Co. (Petroleum).....1-800-766-8230

GRADING NOTES

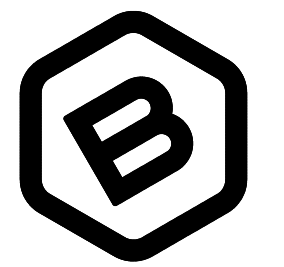
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- Proposed site grading shall not cause significant additional adverse impacts on adjacent property.
- Note that existing contours shown reflect site before removal of sport courts.



ENLARGED GRADING PLAN
SCALE 10 0 10

LEGEND

Legend symbols and descriptions:
1390 Existing Spot Elevations
1389 Existing Contours
Proposed Spot Grade
Proposed Curb and Flow Line Grades
Proposed Slope
FFE = X,XXX.XX Proposed Building Finished Floor Elevation



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COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

LEGAL DESCRIPTION

Part of Lot 4, Block 5, Country Acres Second Addition, Sedgwick County, Kansas, and Part of Lot 2, Block 1, Gentry 4th Addition, Wichita, Sedgwick County, Kansas.

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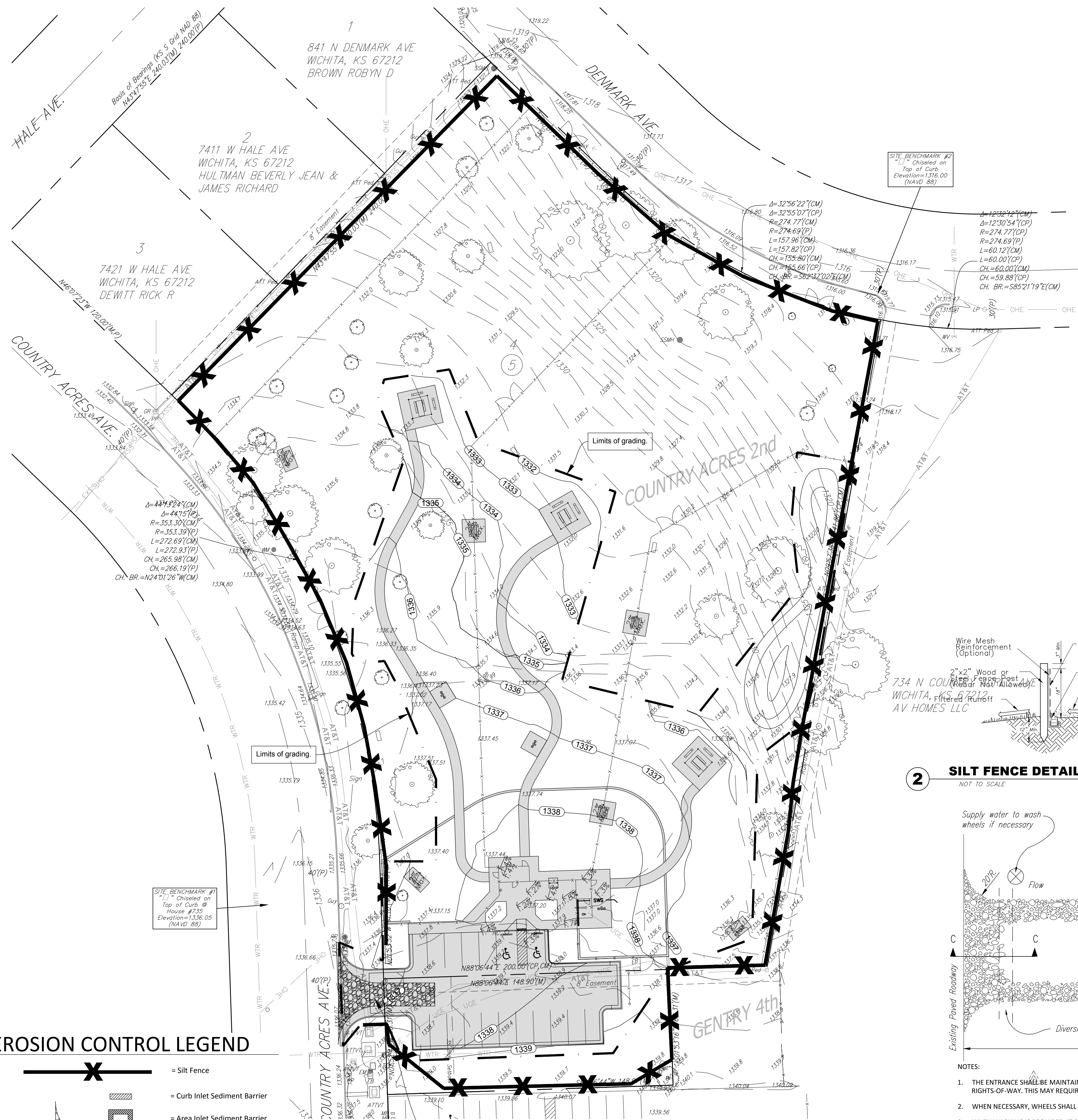
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Phillips Pipeline Co. (Petroleum)	1-800-766-8230

EROSION CONTROL NOTES

- No land clearing or grading shall begin until all applicable erosion control measures have been installed. This project is subject to this SWPP Plan, if applicable. The Contractor shall comply with any unusual requirements as necessary for the site to be in compliance during construction, per this plan and per City and State specifications (See #11).
- All exposed areas shall be seeded as specified within 14 days of final grading. Seed is to include straw mulch, crimped in place per industry standards.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Maintain erosion control measures after each rain and at least once a week.
- This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- Contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- Land disturbing activities shall not commence until approval to do so has been received by governing authorities.
- If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
- See Landscape Plan for ground treatments in all disturbed areas beyond impervious surfaces.
- This Erosion Control Plan should be in job trailer and/or on site at all times. The Contractor is responsible for any needed changes, updates or maintenance to BMP's on site. This plan may change and updates need to be recorded and documented on the plan. This plan is a flexible plan, due to changing site conditions and weather. Please inform Landscape Architect and/or Engineer of changes to plan.
- ANY substitutions for the sediment control devices shown, must be approved by the Landscape Architect and/or Engineer prior to any uses on site.
- If site disturbance is over 1 acre, an NPDES Permit Application has been submitted for this property and a copy of this application must be kept at the job site for the duration of the construction process.
- BMP's to be removed & disposed of after landscape establishment and before final acceptance in coordination with Parks Department. See sequence of activities in SWPPP.



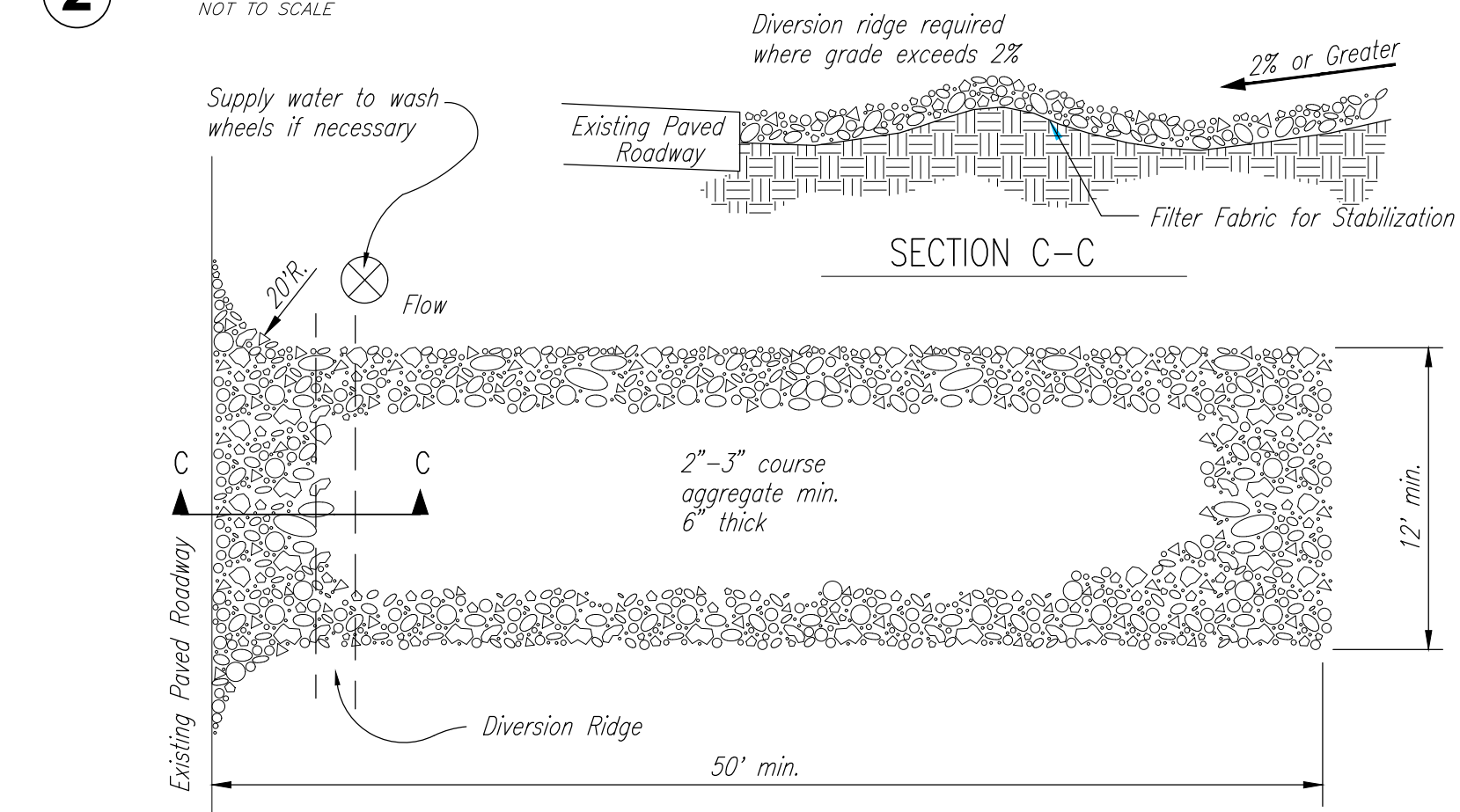
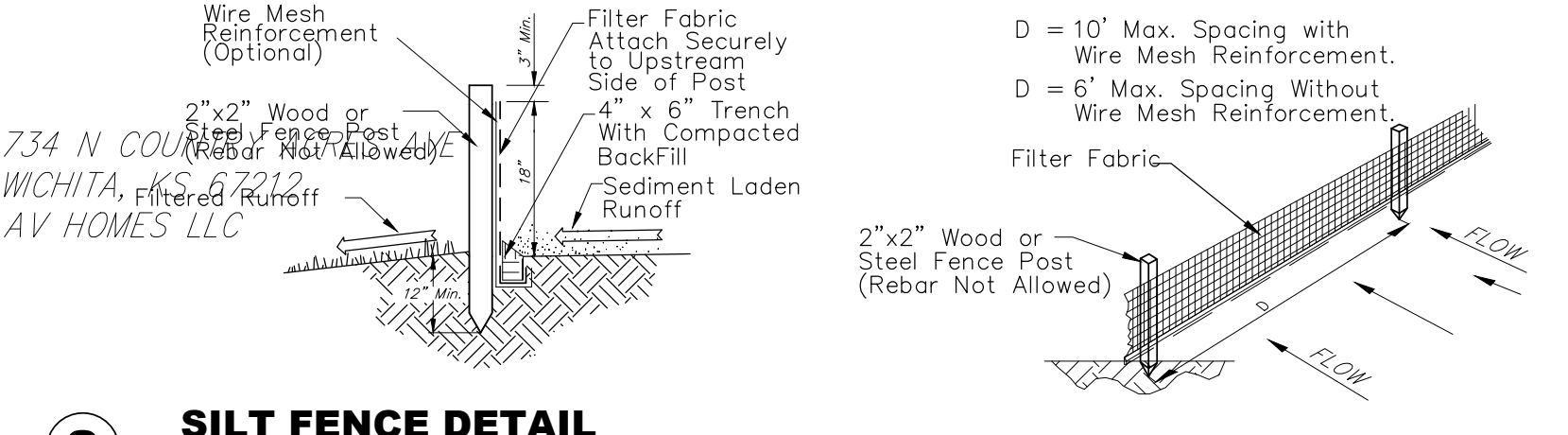
EROSION CONTROL LEGEND

- = Silt Fence
- = Curb Inlet Sediment Barrier
- = Area Inlet Sediment Barrier
- = Construction Entrance
- = Proposed Slope
- Proposed Contours
- Existing Contours

CONSTRUCTION ENTRANCE INFORMATION:
Contractor Shall Construct and Maintain Approved Entrance as Discussed in the Storm Water Pollution Prevention Plan Guidelines, and Detail, this Sheet. Entrance Shall be a Minimum of 12' Wide by 50' in Length With 2"-3" Dia. Stone at a Depth of 6".

EROSION CONTROL PLAN

SCALE 30 0 30

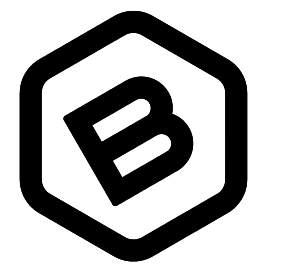


- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC 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.

PROJECT NUMBER:
23-08-E572
DESIGN: AH DRAWN: AH
DATE: 05/01/2024

EROSION CONTROL PLAN

File: E:\Projects\Country Acres 2nd Lot 4\Blk 5_23-08-E572\Engineering



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COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH

DATE: 05/01/2024

SITE
UTILITY
PLAN

9 of 20

File: E:\Projects\Country Acres 2nd Lot 4\Blk 5_23-08-E572\Engineering

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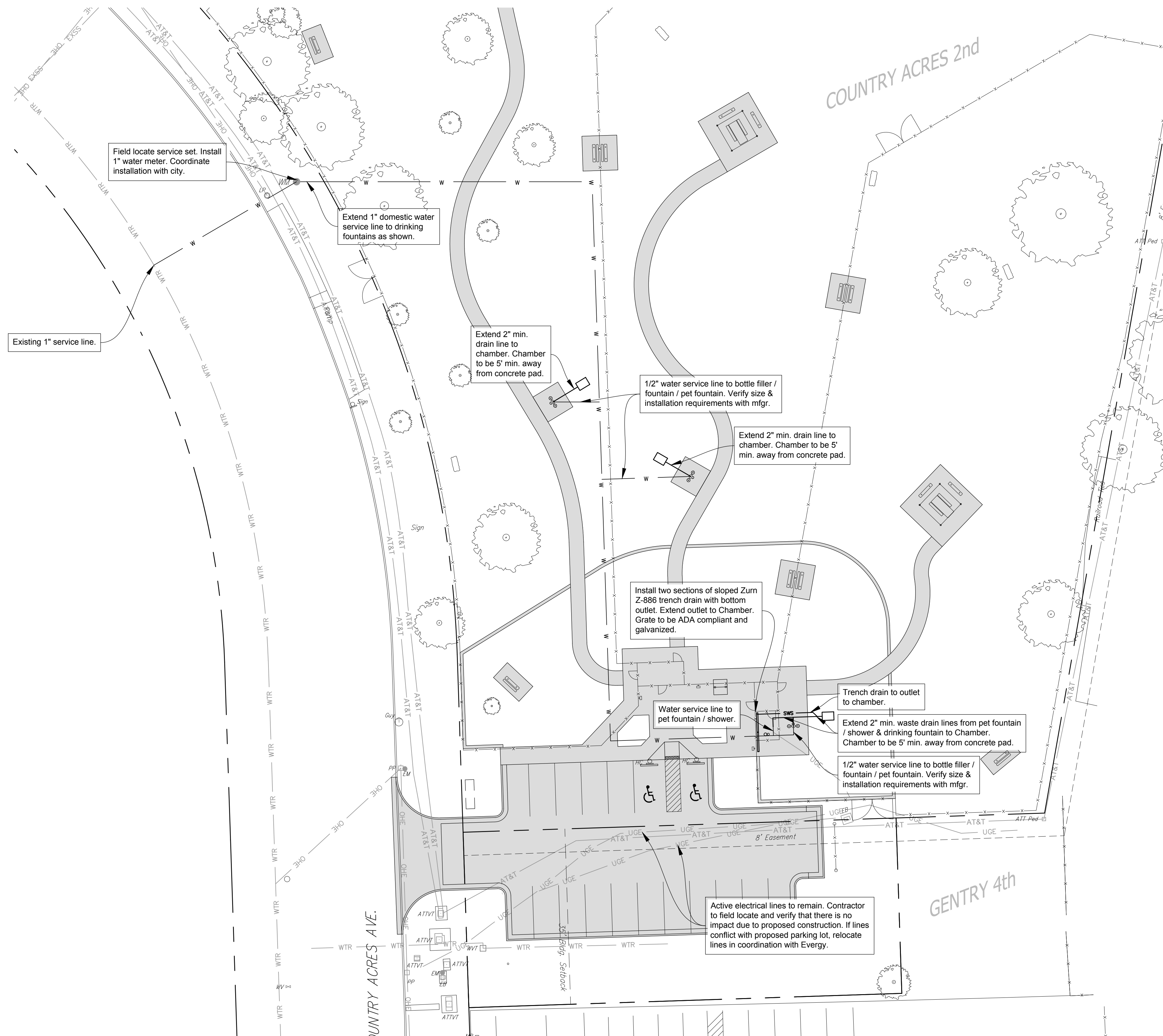
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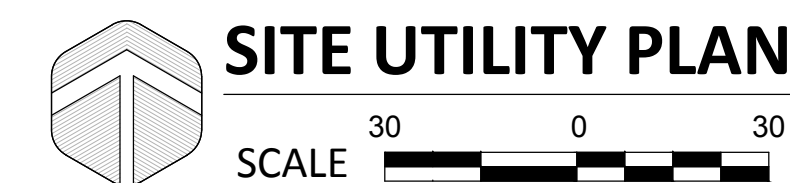
UTILITY NOTES

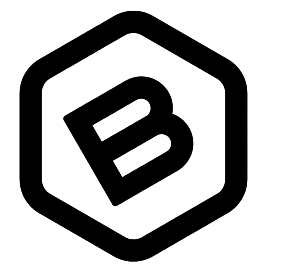
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- Traffic affected by the construction on this project shall be handled in accordance with the latest edition of the Local Manual on Uniform Traffic Control Devices.
- The Contractor shall verify all utility locations prior to construction of this project.
- Refer to General Notes for final treatment of disturbed areas.
- The Contractor shall receive written approval from adjacent landowners prior to proceeding with any construction work on landowner's property.
- Gas service tie-ins to new meters shall be per service provider standards. Tie-ins are to be above ground at the meter.
- Utility service connections are to be installed per applicable Local City Codes.
- Contractor shall be responsible for coordination and cost of all utility service connections, permits, relocations, abandonments, and removals.
- Water taps to be made by Local City Water Department. Contractor to reimburse City for tapping costs.



LEGEND

Existing Utilities		Proposed Utilities	
— UGE	— UGE	— UGE	— Electric Underground
— OHE	— OHE	— WTR	— Water Line
— WTR	— WTR	— SS	— Sanitary Sewer Line
— GAS	— GAS	— GAS	— Gas Service Line
— PIPELINE	— PIPELINE	— RD	— Storm Sewer Roof Drain
— SWS	— SWS	— Fire	— Fire Sprinkler Line
— EXSS	— EXSS	— SWS	— Storm Water Sewer
— AT&T	— AT&T	— TELE	— Telecom/Data Conduit
— CaTV	— CaTV		



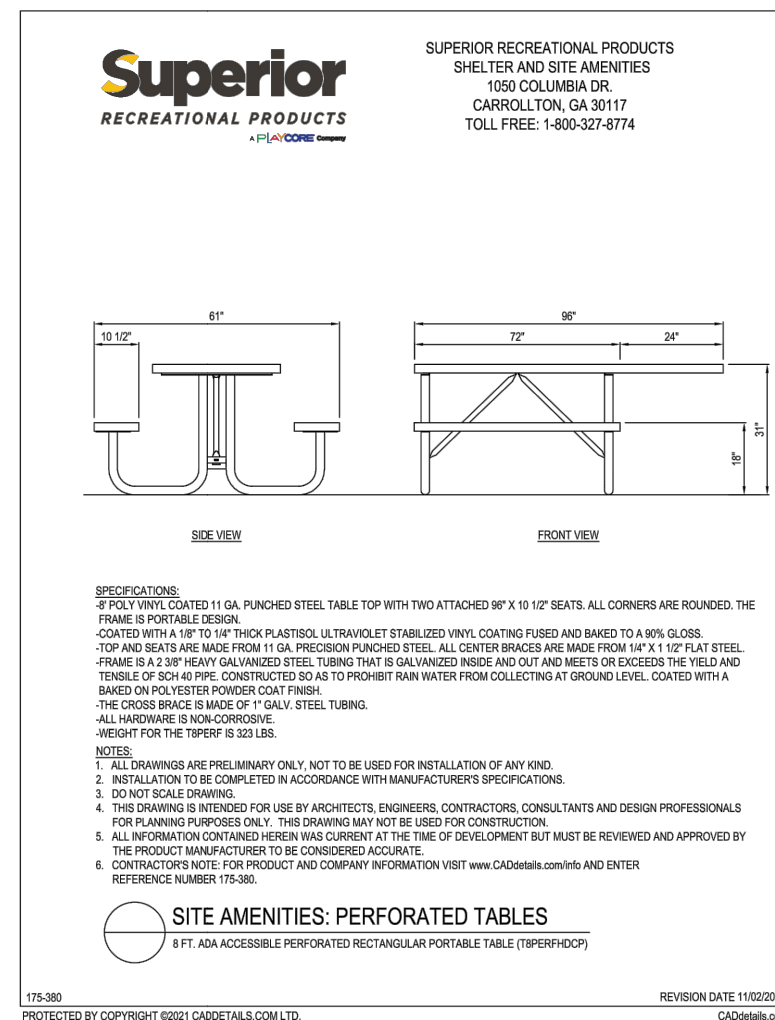


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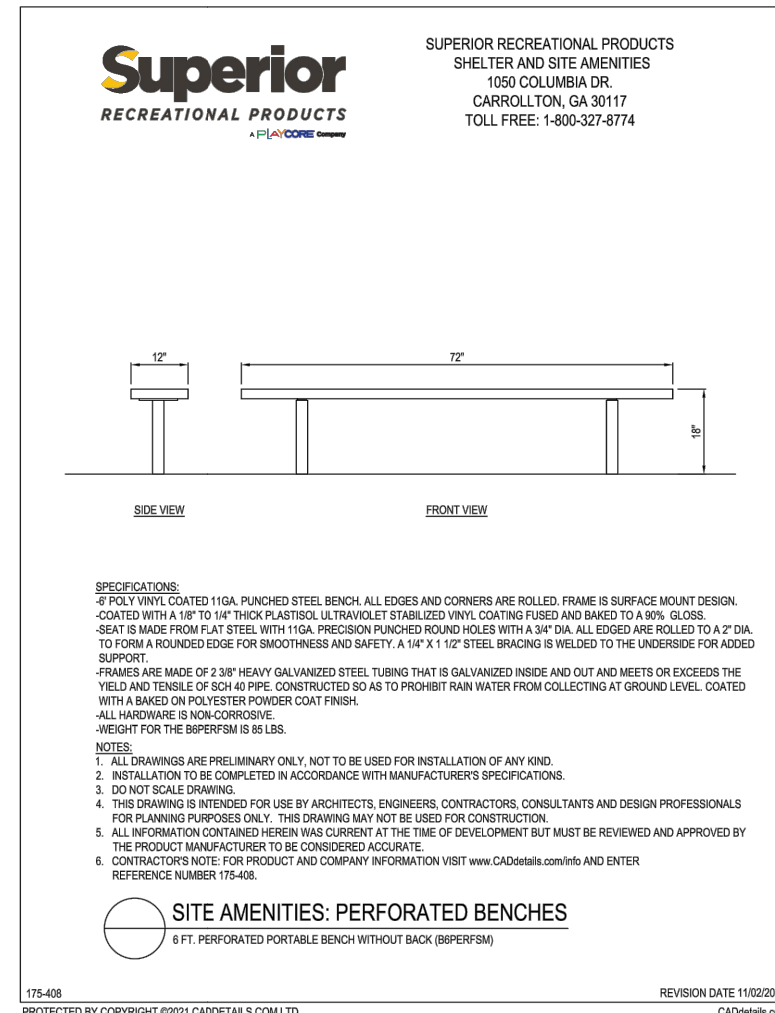
315 Ellis St.
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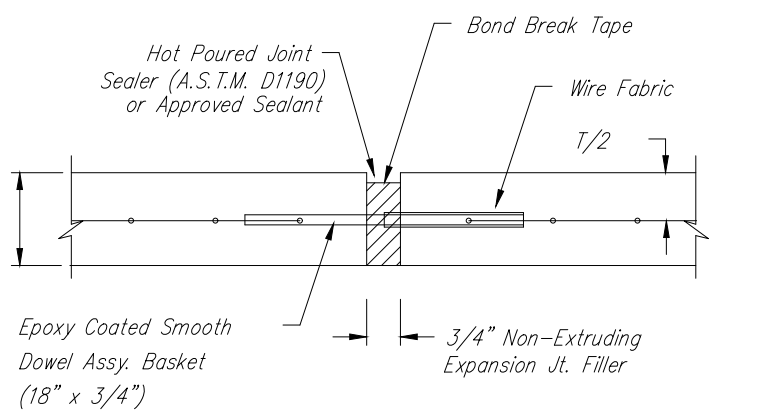
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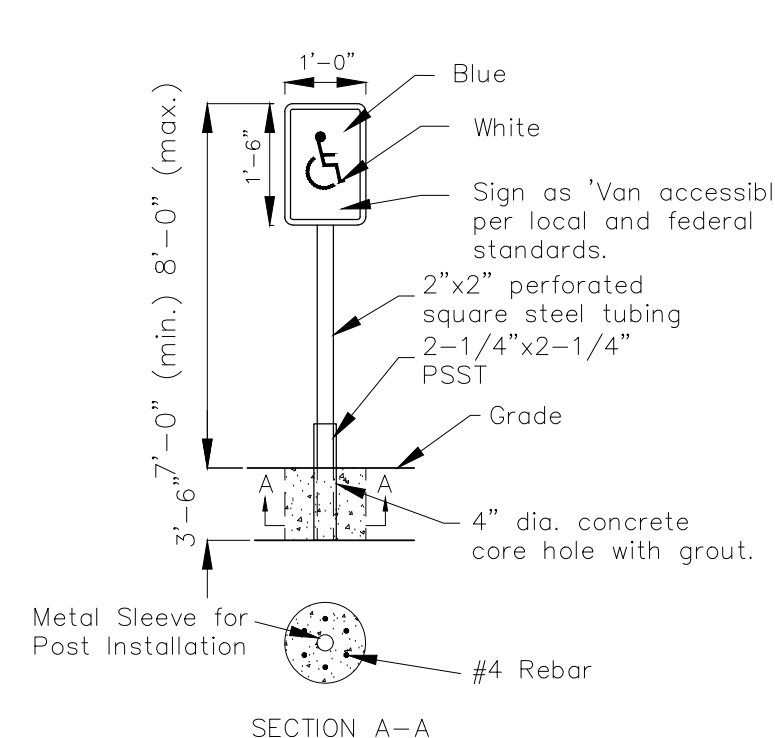
19 PICNIC TABLE
NOT TO SCALE



18 BENCH WITHOUT BACK
NOT TO SCALE



16 HANDICAP PARKING SIGN DETAIL
NOT TO SCALE

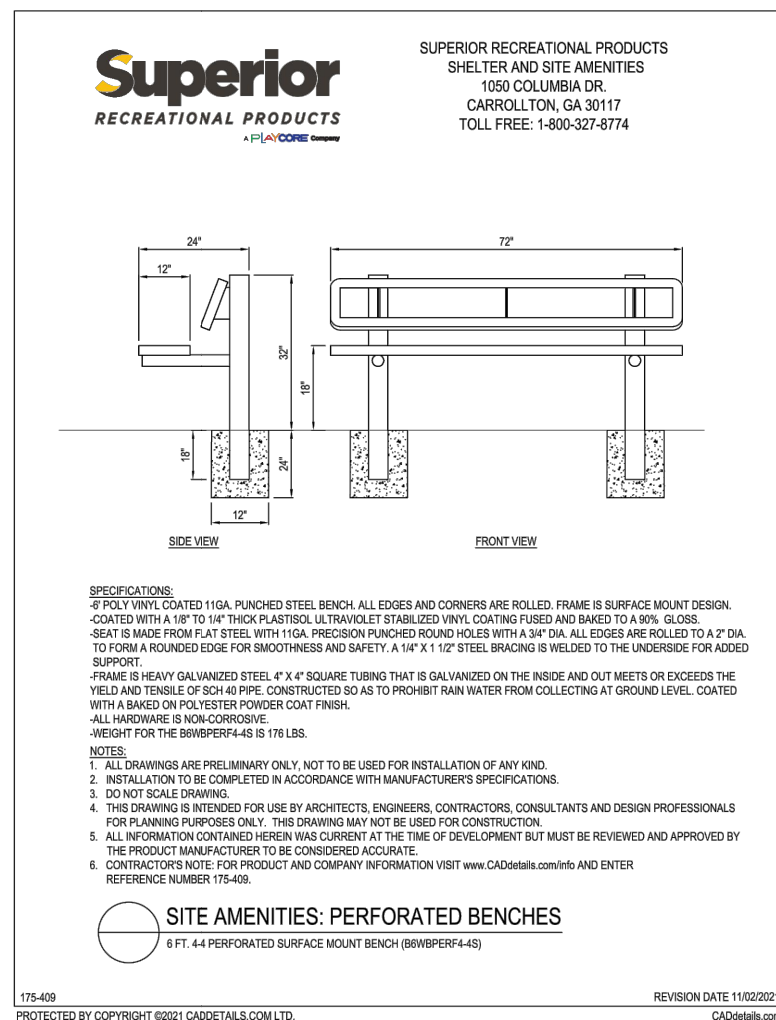


DESCRIPTION: 6' long accessible picnic table. Seat and Top surfaces to be 11GA punched steel (expanded metal is not acceptable), with rounded corners (not rolled).
Plastisol/PVC coatings are not acceptable

• Portable Frames to be 2-3/8" diameter x 11GA structural steel tubing
• Minimum 1/4" x 2" angle steel seat bolt plates
• applied and oven cured according to powder manufacturer's specifications
• Frames to have pre-drilled surface mount holes
• All hardware to be stainless steel

MANUFACTURER: Superior Amenities
MODEL: T8PERFHDCP
(Or Owner-approved equal)
COLOR: Top and seats to be powdercoated green. Frame to be powdercoated black.

Surface mount per Manufacturer instructions.



13 BENCH
NOT TO SCALE

DESCRIPTION: Commercial grade aluminum dispenser with locking lid and rain/wind guard over hand hole.

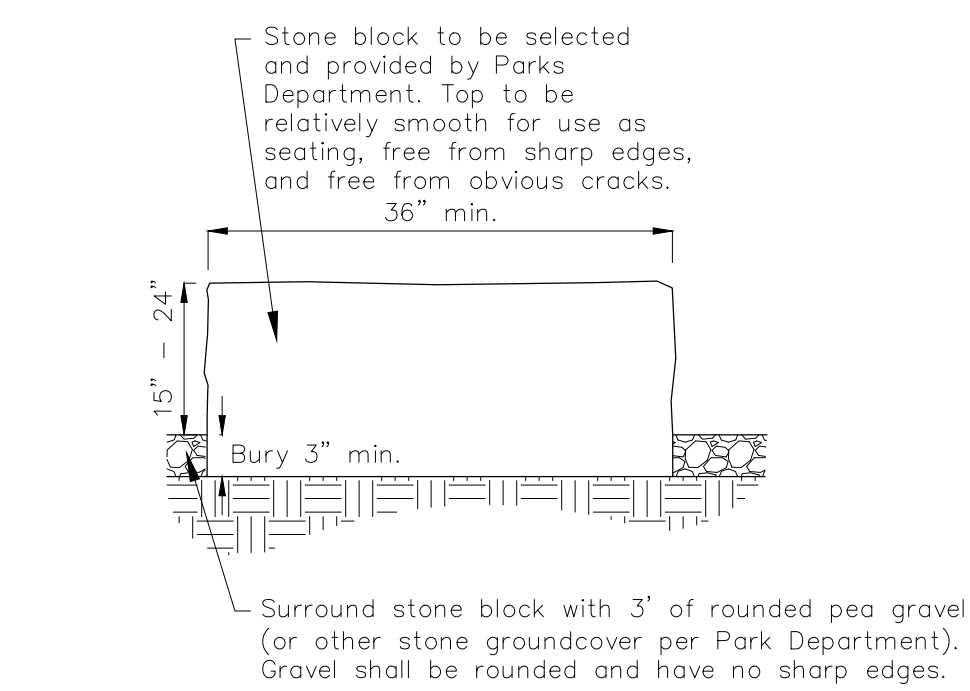
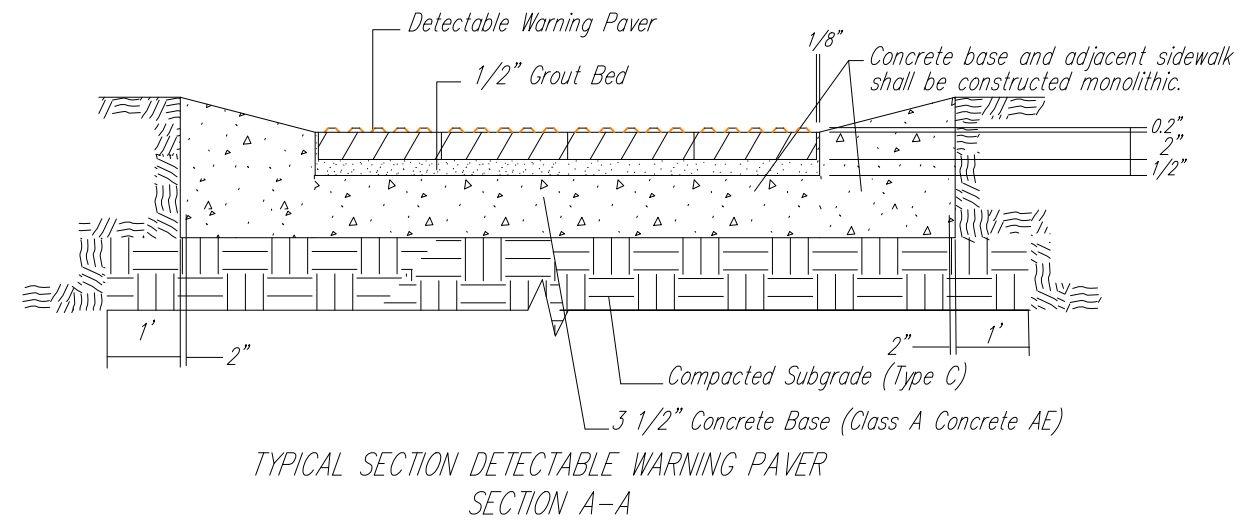
MANUFACTURER: Mutt Mitt
MODEL: Mini Dispenser Station
SKU # 1000
(Or Owner-approved equal)
COLOR: Green
BAGS: Must accept card style bags with 5" hole spacing (roll bags are not acceptable).
KEYS: 2

Install per Manufacturer instructions, not more than 12" from fence.

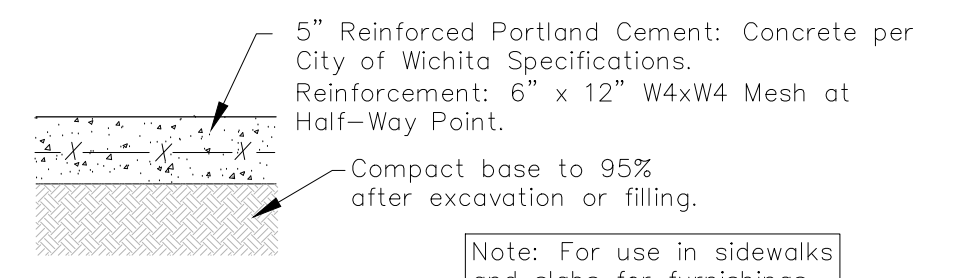
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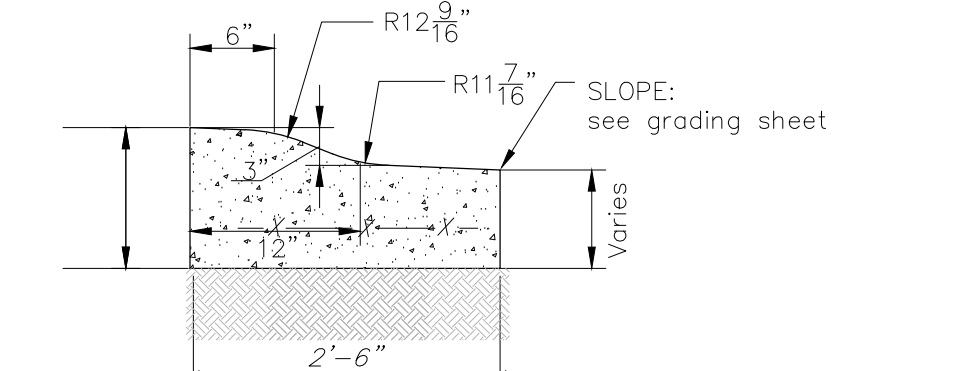
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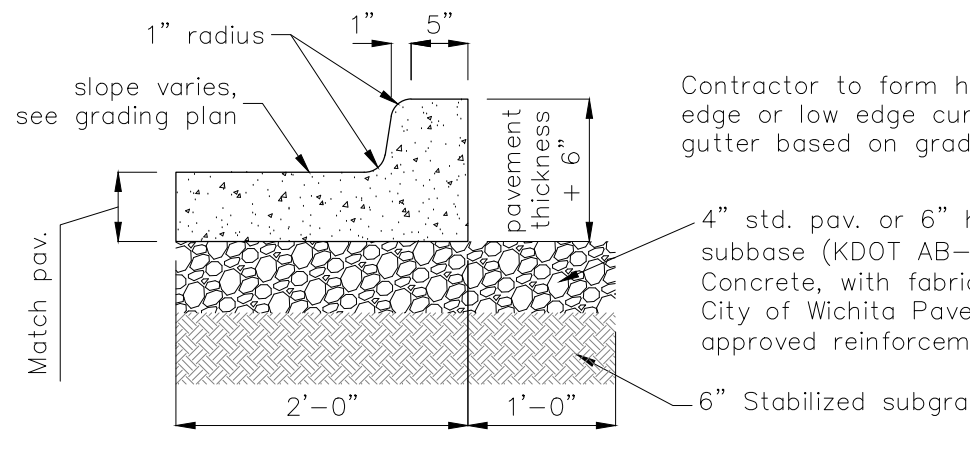
10 STONE BLOCK SEATING
NOT TO SCALE



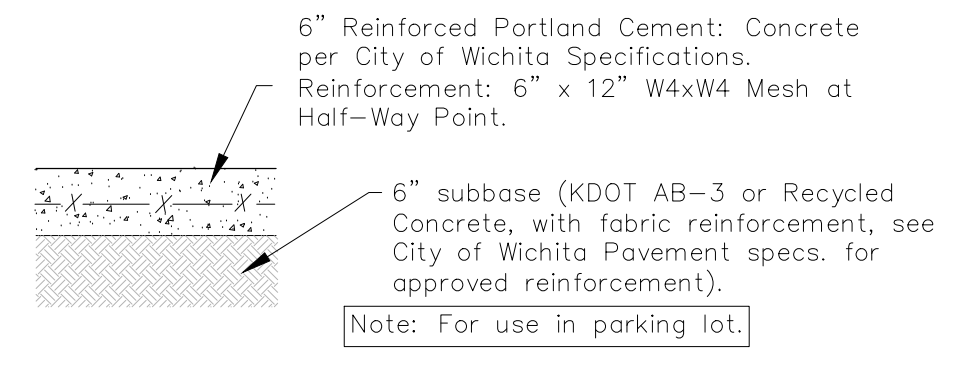
9 5" CONCRETE PAVEMENT
NOT TO SCALE



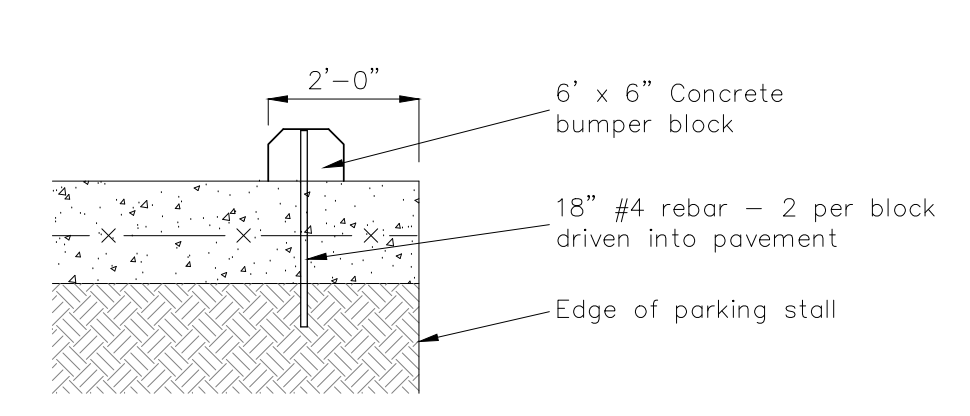
8 ROLL CURB
NOT TO SCALE



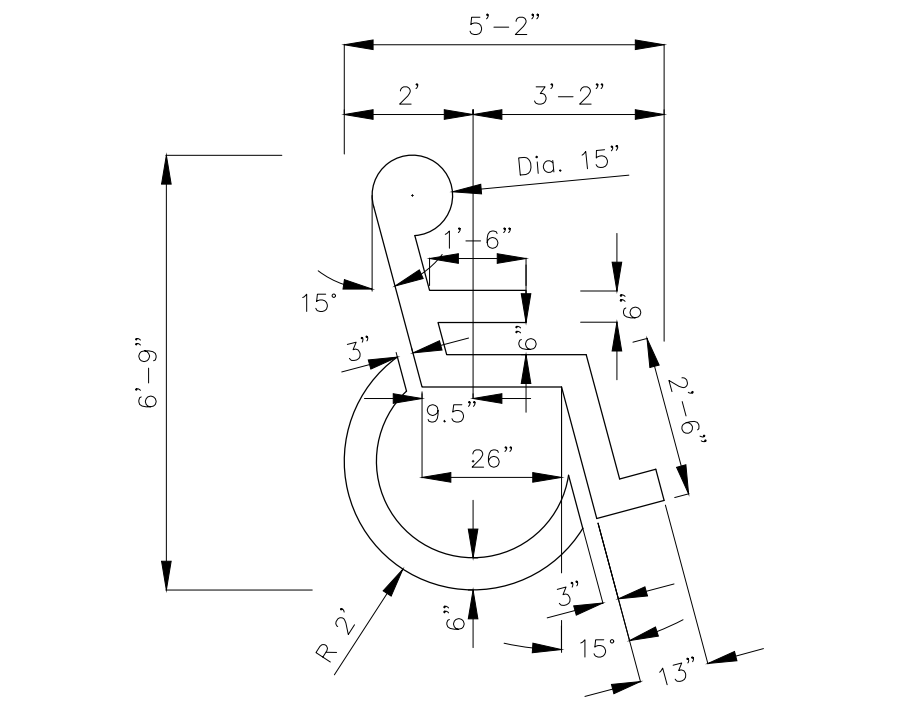
7 CURB & GUTTER SECTION
NOT TO SCALE



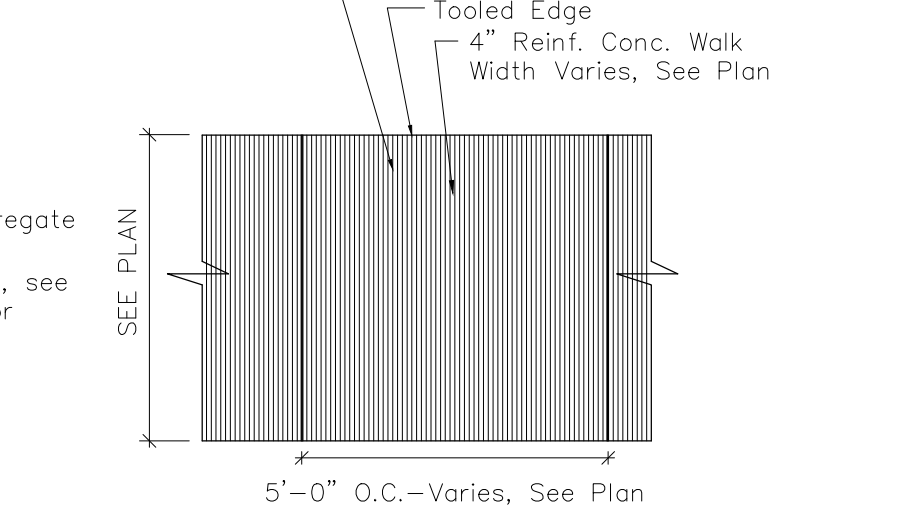
6 6" CONCRETE PAVEMENT
NOT TO SCALE



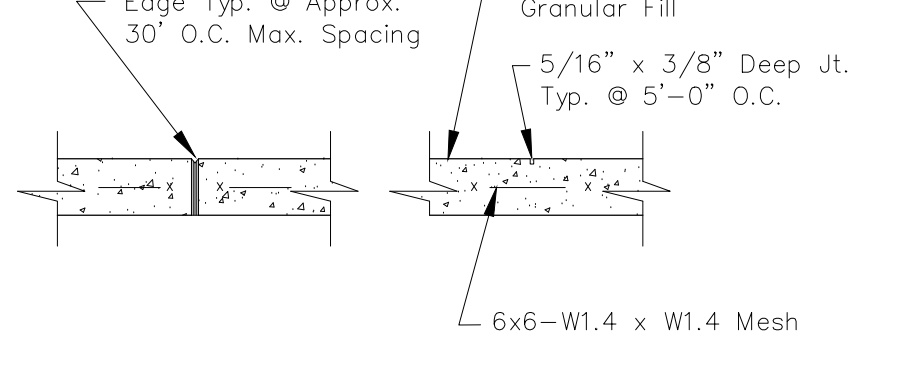
5 TYP. CONCRETE WHEELSTOP
NOT TO SCALE



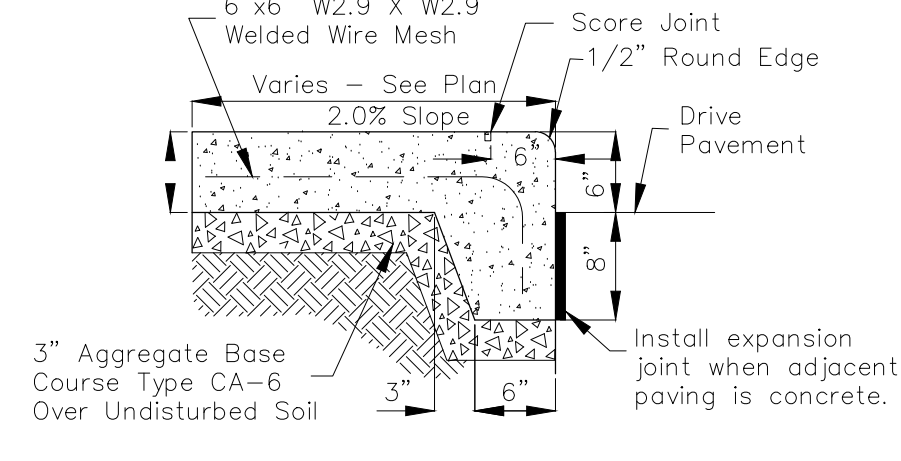
4 HANDICAP PAV. MARKING DETAIL
NOT TO SCALE



3 TYP. PATTERN IN WALK
NOT TO SCALE



2 SIDEWALK JOINTS
NOT TO SCALE



1 TURN DOWN CURB SECTION
NOT TO SCALE

SITE DETAILS
NOT TO SCALE

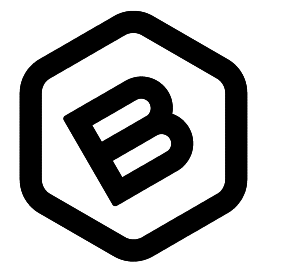
PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH

DATE: 05/01/2024

SITE DETAILS

10 of 20



**BAUGHMAN
COMPANY**

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



COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

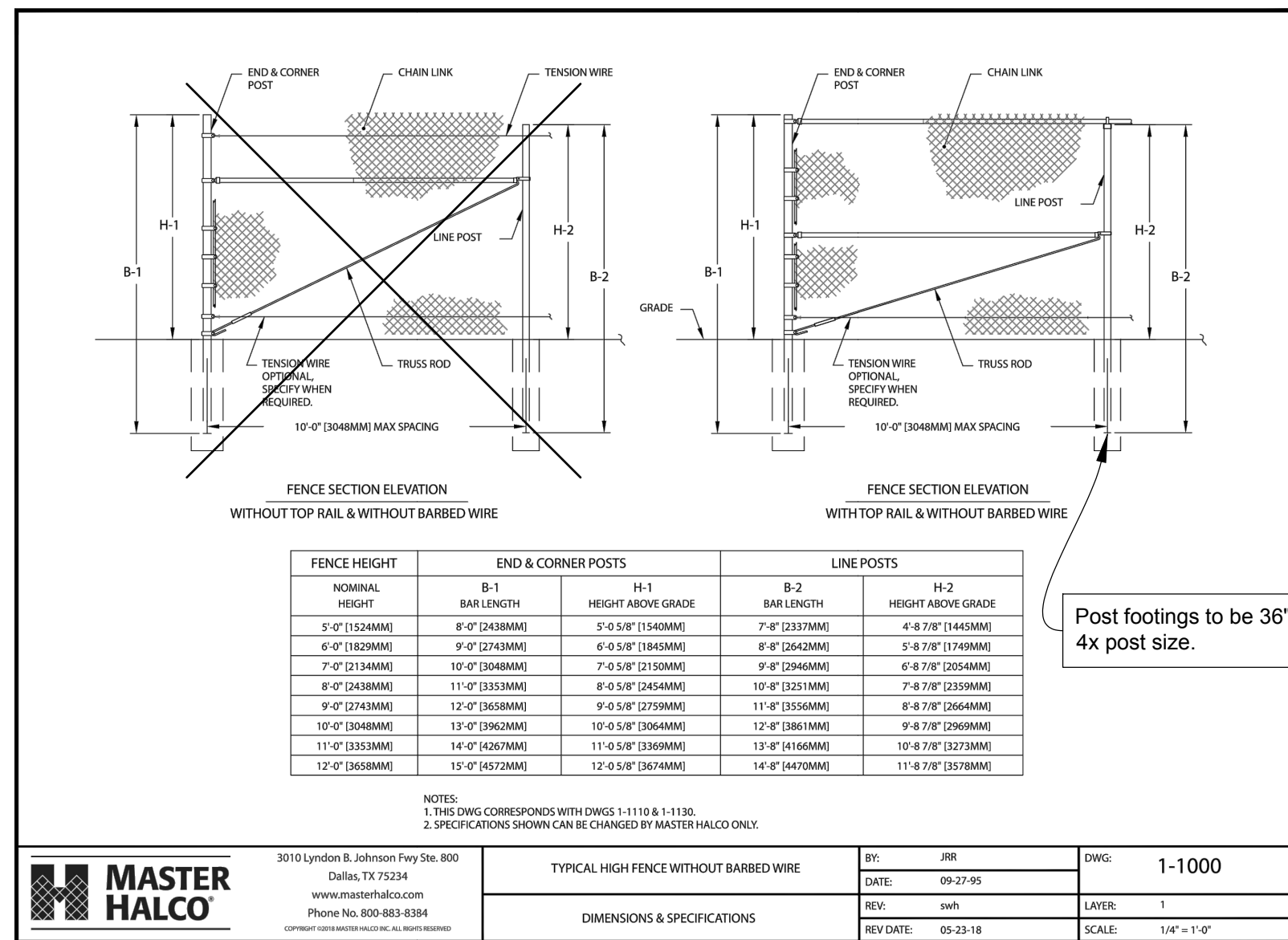
PROJECT NUMBER:
23-08-E572

DESIGN: AH DRAWN: AH
DATE: 05/01/2024

**SITE
DETAILS**

11 of 20

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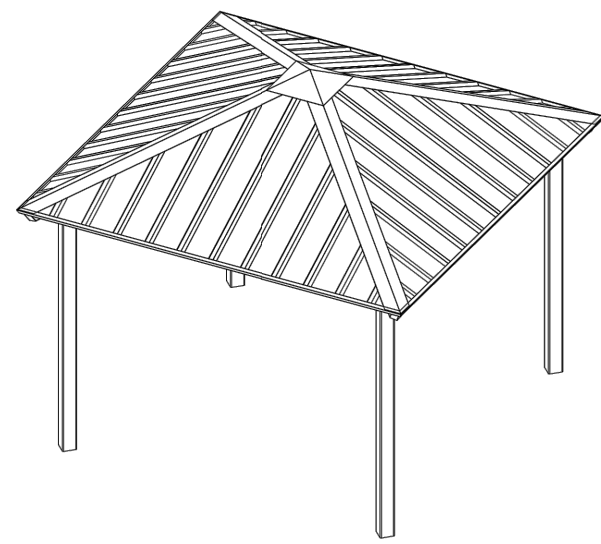
10 CHAIN LINK FENCE
NOT TO SCALE

DESCRIPTION: 5' tall black vinyl coated chain link fence.

Fence:
Shall include top rail.
Top and bottom selvage to be knuckle-knuckle.
Fabric, posts, rails, and fittings color shall be black.
Gates: Shall match fence.
Latches: Shall be Strong Arm.
Hinges: Shall be Bulldog.

Install per Manufacturer instructions.
Or Parks Department approved equal.

9 SHELTER
NOT TO SCALE

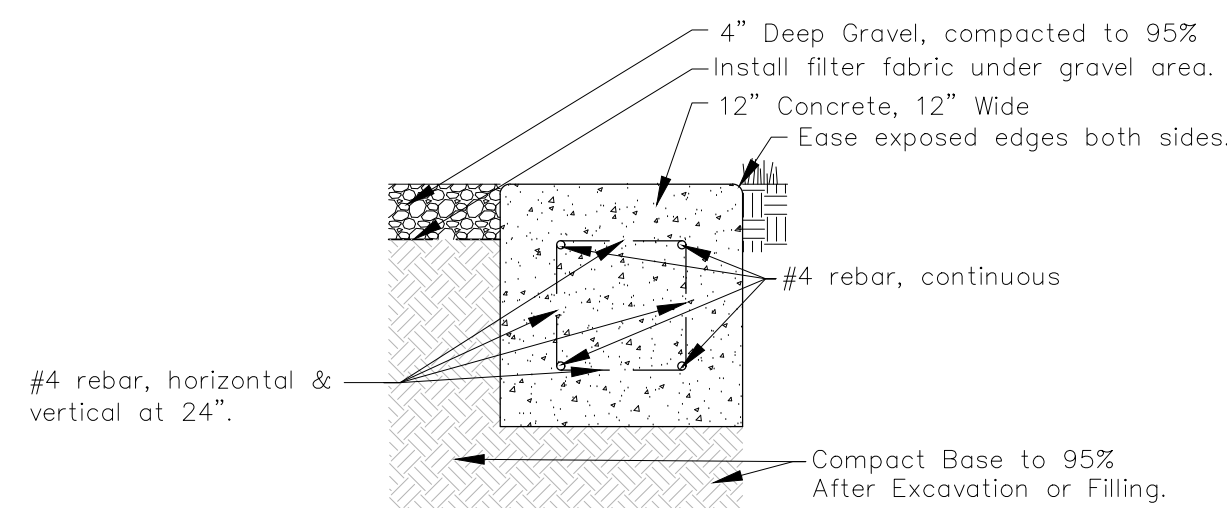


DESCRIPTION: 12' square shelter with metal roof.

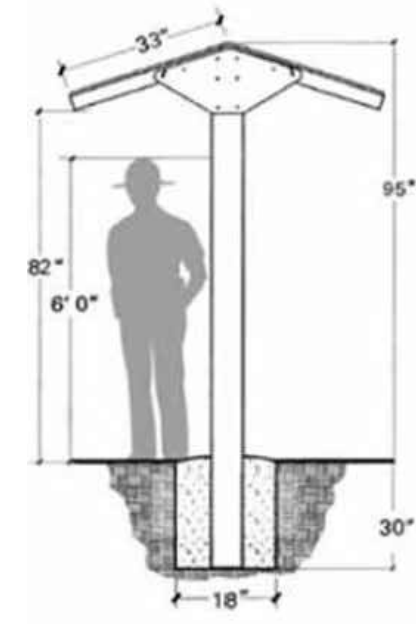
MANUFACTURER: Polygon
MODEL: SQ-12
ROOF: Multi-rib
COLUMNS: Square
COLOR: Roof to be powdercoated Patina Green. Frame & columns to be powdercoated Bumper Black.

In-ground mount per Manufacturer instructions.
Or Owner-approved equal.

8 12" MOW STRIP AND GRAVEL AT DOG PEN ENTRY
NOT TO SCALE



- Notes
- Gravel to be 5/8" minus decomposed granite. Provide sample for Parks Department approval.
 - Mow strip to meet sidewalks flush with no trip hazards.
 - Provide concrete joints per sidewalk joint detail.



KIOSK WITH SIGN PANEL
Kiosk –
Manufacturer: Rockart Signs & Markers, (480)854-3400,
www.rockartsigns.com
Model: 03-562
Shingle color: Green
Mounting: Install in concrete sidewalk (5") (REINFORCED)
per mfr. instructions.

Sign panel –
Size: 36"x48"
Configuration: Single-sided with header, footer, side rails,
and polycarbonate cover. Signage/imagery to be provided
by Park & Rec. Dep't. Coordinate regarding installation.

* Or Park & Recreation Department approved equal. *

7 INFORMATION KIOSK
NOT TO SCALE



DESCRIPTION: Pet shower with attached pet fountain. Includes attached hook for leash. Shower operated by metered valve with 45 second runtime.

MANUFACTURER: Most Dependable Fountains
MODEL: 325 SM with Attached Pet Fountain
COLOR: Green
ACCESSIBILITY: Fountain shall meet ADA requirements for accessibility.

Install per Manufacturer instructions.
Or Owner-approved equal.

See Utility Plan for water supply information.
Fountain drain shall connect to Quick 4 Infiltrator chamber.

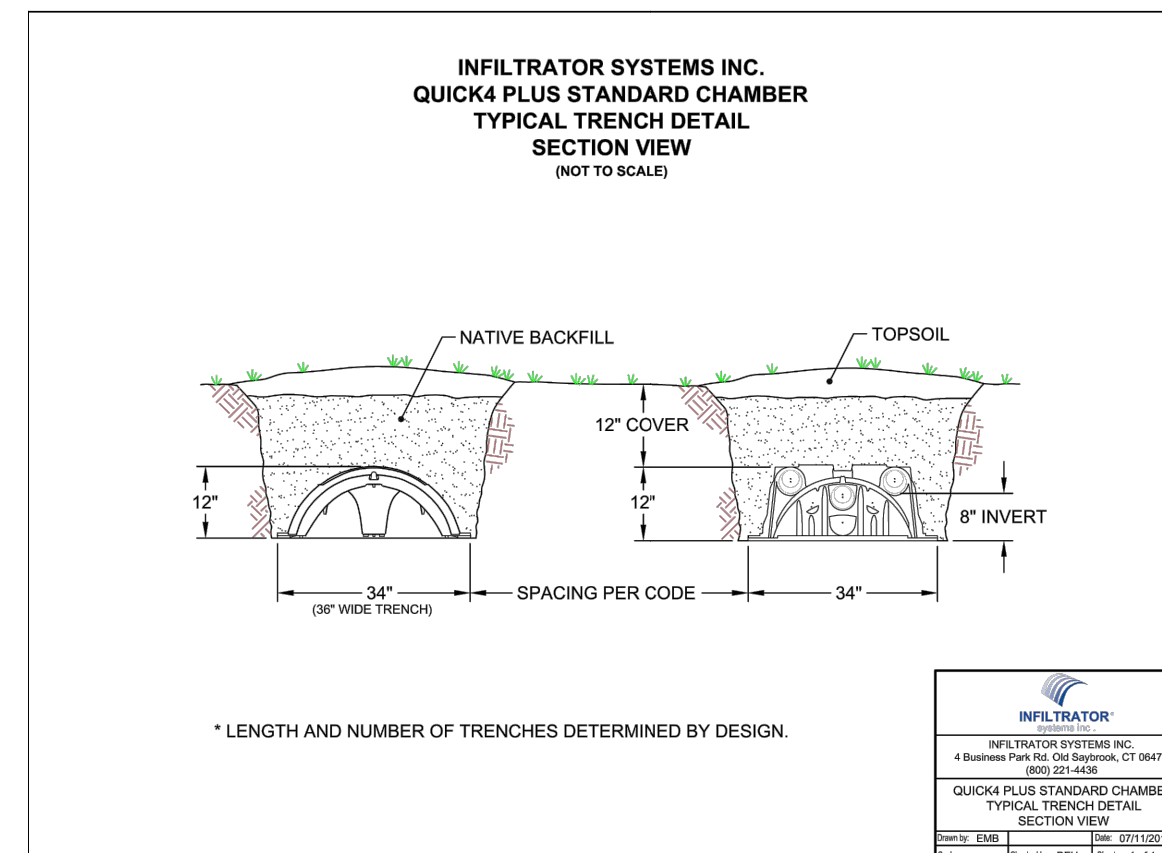
6 PET FOUNTAIN / SHOWER
NOT TO SCALE



DESCRIPTION: Wood posts installed at east end of parking lot per Parks & Recreation Department standards, with cable barrier. At least one end to be lockable to control access. Provide high-visibility cover over cable. Locks to be provided by Parks & Recreation Department.

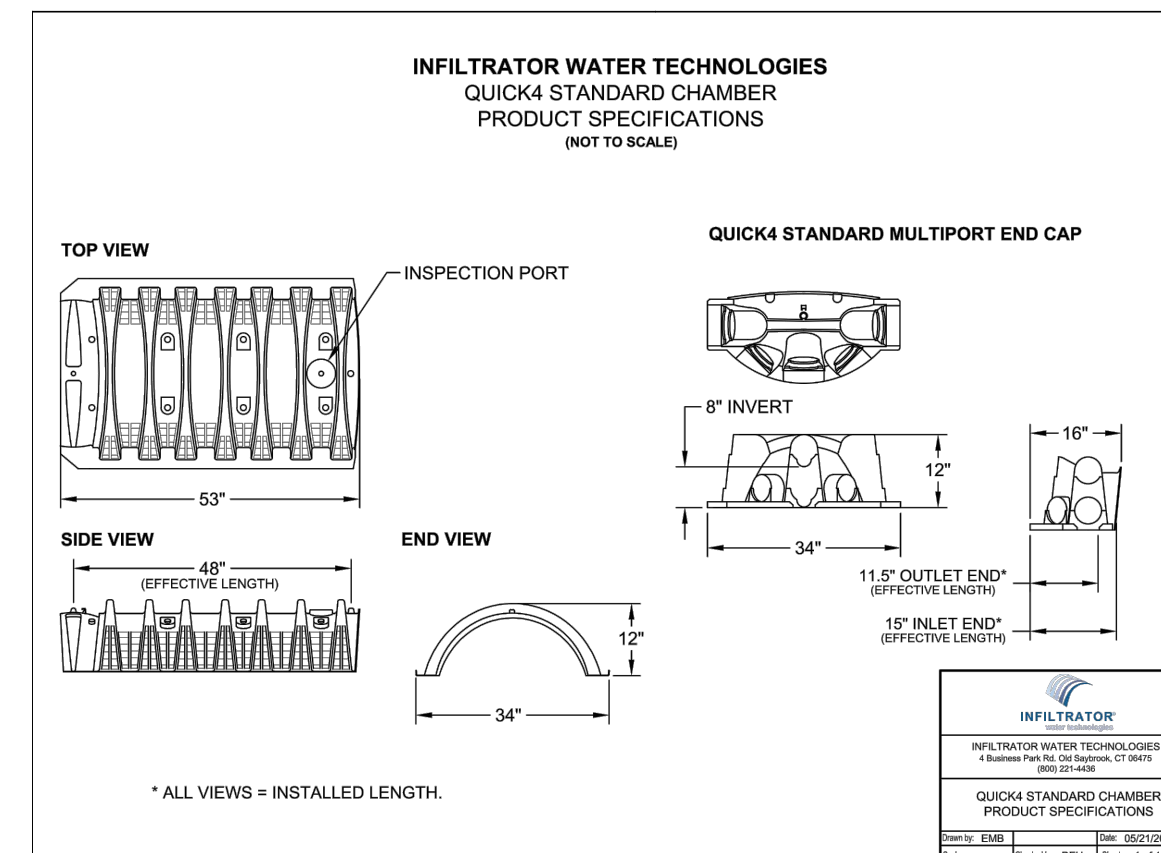
Install per city standards.
Or Owner-approved equal.

5 ACCESS CONTROL - POSTS AND CABLE
NOT TO SCALE



- Notes
- Install one chamber per fountain, per mfr. instructions.
 - Install filter fabric at bottom of trench.
 - Or Owner-approved equal.

4 CHAMBER FOR FOUNTAIN DRAINAGE
NOT TO SCALE



3 DRINKING FOUNTAIN
NOT TO SCALE



DESCRIPTION: Bottle filler fountain with additional drinking fountains at two heights and attached pet fountain.

MANUFACTURER: Most Dependable Fountains
MODEL: 10145 SM with Attached Pet Fountain
COLOR: Green
ACCESSIBILITY: Fountain shall meet ADA requirements for accessibility.

Install per Manufacturer instructions.
Or Owner-approved equal.

See Utility Plan for water supply information.
Fountain drain shall connect to Quick 4 Infiltrator chamber.

2 FIELD FENCE
NOT TO SCALE

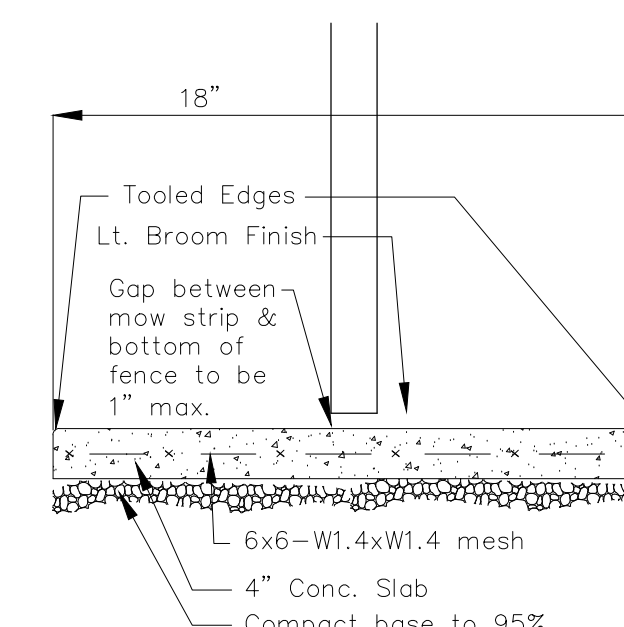


INTERIOR FENCE SEPARATING DOG PENS

DESCRIPTION: 5' high fence with 2"x4" wire spacing. Install 6" round wood posts 15' o.c. max. Install two 2" sch. 40 round galvanized posts evenly spaced between the wood posts.

Install per city standards.
Or Owner-approved equal.

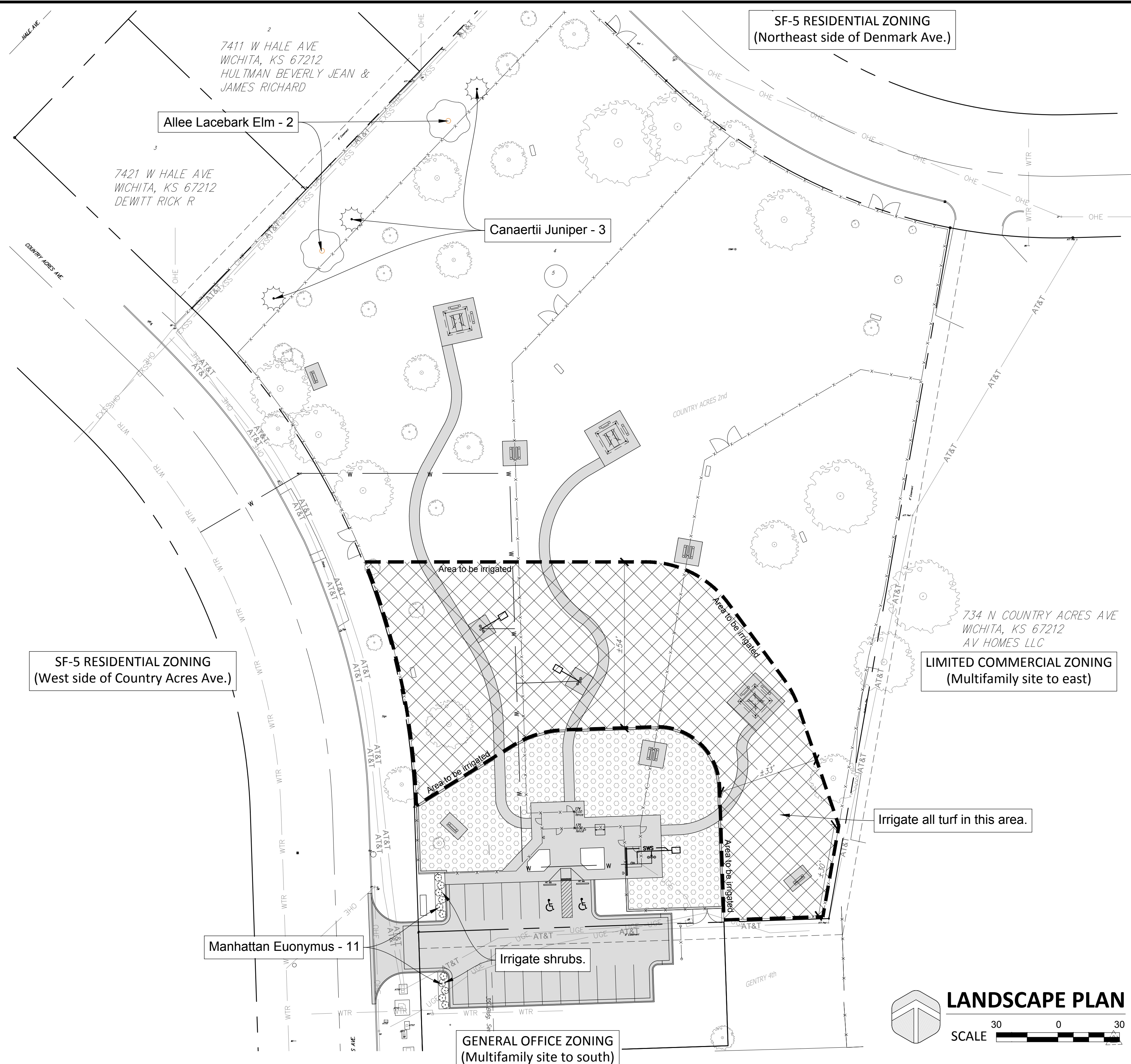
1 18" MOW STRIP AT FENCES
NOT TO SCALE



Provide concrete joints per sidewalk joint detail.

SITE DETAILS

NOT TO SCALE



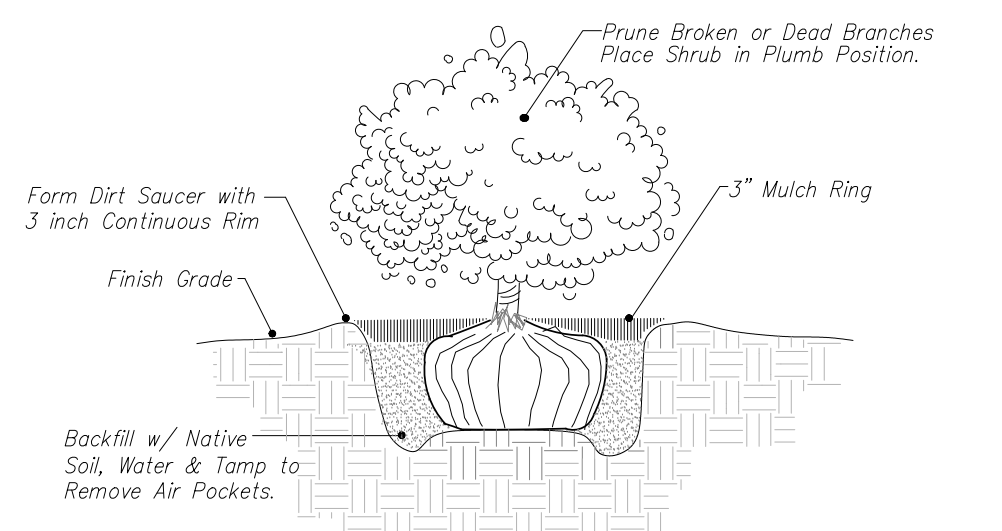
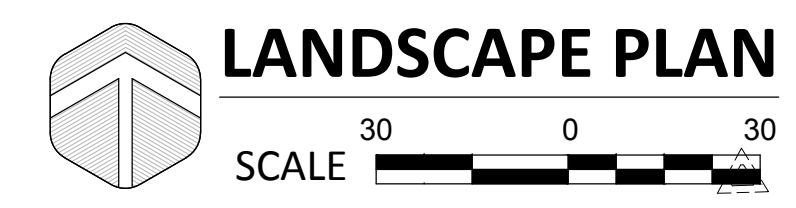
SF-5 RESIDENTIAL ZONING
(Northeast side of Denmark Ave.)

SF-5 RESIDENTIAL ZONING
(West side of Country Acres Ave.)

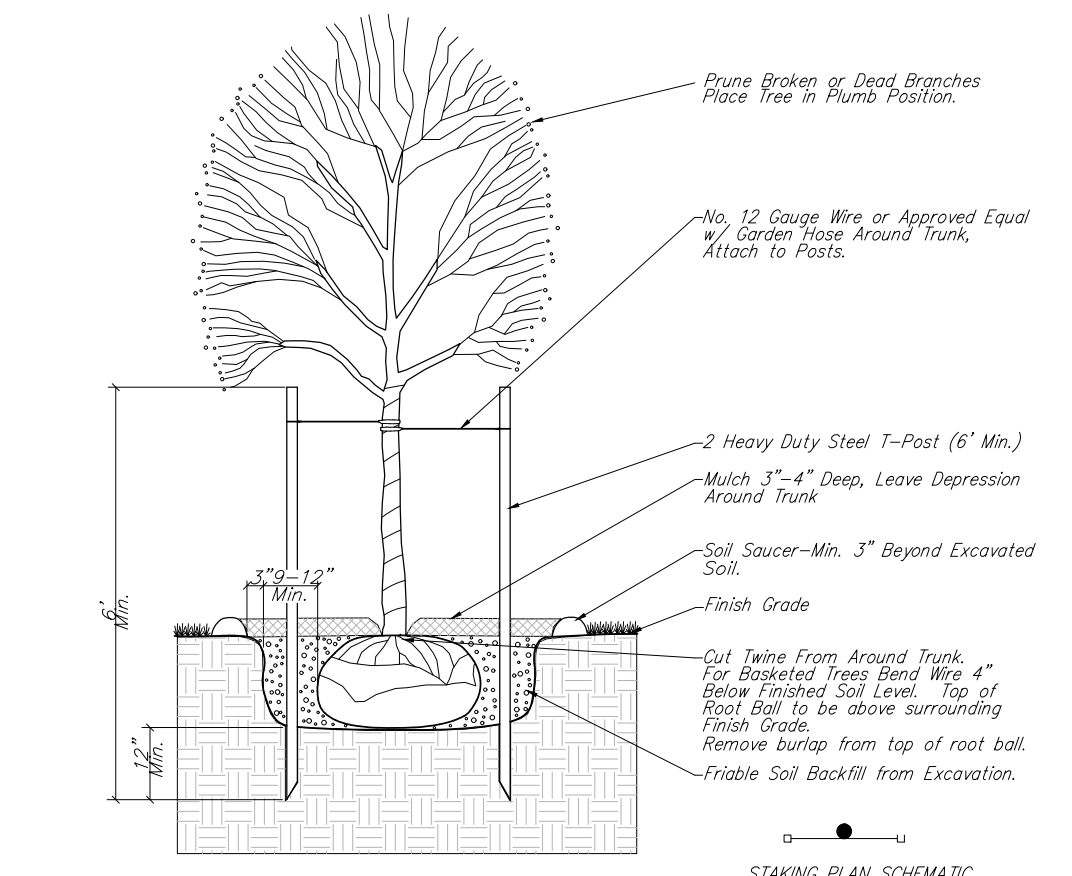
LIMITED COMMERCIAL ZONING
(Multifamily site to east)

GENERAL OFFICE ZONING
(Multifamily site to south)

Irrigate all turf in this area.



2 SHRUB PLANTING DETAIL
5 Gallon and Smaller No Scale



1 TREE PLANTING & STAKING DETAIL
Deciduous Trees Larger than 2\"/>

PLANT_SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT
	2	EUONYMUS KIAUTSCHOVICUS 'MANHATTAN'	MANHATTAN EUONYMUS	2" CAL. MIN.
	3	JUNIPERUS VIRGINIANA 'CANAERTII'	CANAERTII JUNIPER	5' TALL MIN.
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT
	11	EUONYMUS KIAUTSCHOVICUS 'MANHATTAN'	MANHATTAN EUONYMUS	18" TALL / 2 GAL. MIN.

LEGAL DESCRIPTION

Part of Lot 4, Block 5, Country Acres Second Addition, Sedgwick County, Kansas, and Part of Lot 2, Block 1, Gentry 4th Addition, Wichita, Sedgwick County, Kansas.

SITE INFORMATION

Total Area:	±118,613.86 sq. ft. (2.72 acres)
Disturbed Area:	±51,827 sq. ft. (1.19 acres)
Impervious Area, pre-const:	±16,645 sq. ft. (0.38 acres)
Impervious Area, post-const:	±13,976 sq. ft. (0.32 acres)

BENCHMARKS

- Site Benchmark - 1
" " chiseled on top of curb at house # 735.
Elevation = 1336.05 (NAVD 88)
- Site Benchmark - 2
" " chiseled on top of Denmark Ave. curb, NE corner of site.
Elevation = 1316.00 (NAVD 88)

KANSAS ONE CALL

Contractor shall be required to provide notice to Kansas One Call at 287-2470 a minimum of three (3) working days prior to any excavation or work adjacent to utilities.
Kansas One Call 1-800-DIG-SAFE

LANDSCAPE NOTES

- All landscape work shall be done in accordance with industry standards.
- Trees with broken leaders or no central leader will not be accepted.
- All planting beds shall be prepared by killing all existing vegetation with Round-Up (or equal) according to label directions. A Pre-emergent herbicide such as Treflan (5%) (or equal) shall be applied per label directions. All planting beds to receive 2" organic matter (such as cotton bur mulch, compost, or humus) and shall be rototilled in to a depth of 10-12".
- Mulch all planting beds with min. 3" of mulch. Mulch all tree saucer wells with min. 3" of mulch. Mulch material to be premium cedar mulch of uniform consistency.
- Metal edging shall be used to separate all turf areas from planting beds. Edging shall be 10 gauge thickness, commercial grade, or approved equal.
- General Contractor to supply and place at a depth of 4", all topsoil on site within the Limits of Construction.
- Topsoil hauled onto site shall be fertile, friable, natural loam topsoil, of uniform quality characteristic of representative local soils which produce heavy growth of crops, grass, or other vegetation. It shall be free of trash, or other matter toxic to plant growth.
- Topsoil shall be delivered in an unfrozen and non-muddy condition and shall be subject to approval by the Landscape Architect.
- Prior to any excavation for landscaping purposes the location of underground utilities shall be determined by calling Kansas One Call at 687-2470/1-800-344-7233. Contractor shall be responsible for any damage done to existing utilities.
- Report any discrepancies in the planting plan to the Landscape Architect, prior to starting construction.
- The Landscape Contractor shall coordinate with the G.C. to gain site access to install the plants and maintain grounds, until final acceptance from owner. Upon final acceptance, the one (1) year guarantee period will begin.
- The Landscape Contractor shall coordinate with the G.C. to install the plants and maintain grounds, until final acceptance from owner.
- The Landscape Contractor shall submit bid with unit prices for all plants, including mulch, installation, 1 year guarantee, bed preparation, fertilizer, etc.
- The Landscape Contractor is responsible for any damage done to the exterior of the building or any part of the parking lot when installing or maintaining the plantings before final acceptance.
- Fall planting season shall be September 1 thru October 31. Spring planting season shall be April 1 thru June 30. For grass seeding, fall season shall be September 1 thru mid October. Spring season for seeding shall be from March 15 thru mid May.
- Irrigation shall be installed to serve parking lot screening shrubs and part of the fields. See hatched area this sheet for turf irrigation extents and see Sheet 13 irrigation specifications. Locate controller & above ground equipment in coordination with Parks Department.
- Trees shall be watered manually until established.
- See General Note #9 on Cover Sheet for turf specification.

LANDSCAPE CALCULATIONS

PARKING
Required: Continuous 3" shrub screen between parking and Country Acres Ave.
Provided: Provided 3" shrub screen.

BUFFER TO SOUTH (GO ZONING)
N/A

BUFFER TO EAST (LC ZONING)
N/A

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

COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572
DESIGN: AH DRAWN: AH
DATE: 05/01/2024

LANDSCAPE PLAN

File: E:\Projects\Country Acres 2nd lot - Blk 5 - 23-08-E572\Engineering

906.1 DESCRIPTION

It is intended that the Contractor provide all labor and materials to design and install an irrigation system in all turf areas within the dog park fencing. The following specifications detail the type of products and installation practices required for this job. Base bid will include all Labor and Materials to design and install the Sprinkler system at Country Acres Dog Park to include: controller, appropriate sized irrigation water meter (and associated vault), mainline, wire and all other associated costs for that result. System designs including polyethylene or similar material tube based drip zones will not be considered. **An Irrigation Association Certified Irrigation Designer shall design the irrigation system.**

CONTRACTOR EXPERIENCE REQUIREMENT

The Irrigation Contractor shall be required to demonstrate 8 years' experience in the installation of similar sized systems. A written document showing a minimum of three references with contact information for three separate projects of equivalent size and complexity shall be required. The contractor must also show experience with control systems of a type similar to this project. Contractor will not be allowed to begin work until after references are checked and found to be satisfactory by the Department of Park and Recreation.

SUMMARY

- A. This section includes the following:
 1. Pipe and fittings, valves, sprinkler heads and accessories.
 2. Irrigation control system.

QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies:
 1. All work and materials shall be in full accordance with the latest rules and regulations of safety order of Division of Industrial Safety; the Uniform Building Code and other applicable laws and regulations, including any regulatory authorities having jurisdiction, and Plumbing/Electrical Codes, and;
 2. Should the contract documents be in variance with the aforementioned rules and regulations, notify the Owner for instructions before proceeding with work affected.
- B. Testing:
 1. A Final inspection shall be made prior to acceptance of project by Owner. A minimum 72-hour notice is required prior to this inspection.
- C. Permits and Inspections:
 1. Any permits for the installation or construction of any work included under this contract, which are required by any of the legally constituted authorities having jurisdiction, shall be obtained and paid for by the Contractor.

SUBMITTALS

- A. Shop drawing or irrigation system design, including but not limited to piping, sprinkler heads, valves, wiring, and controls.
- B. This drawing will be furnished within ten (10) calendar days after contractor has received notice to proceed.
- C. The drawings shall include a layout of the entire project including any adjacent right-of-ways, which are required to be irrigated.
- D. The drawings and specifications shall show the following as a minimum:
 1. Static pressure (psi) and gallons per minute (gpm) upon which the design is based;
 2. Complete layout of the system indicating placement of all piping, controls, control boxes, valves, required sleeves, etc.;
 3. All pipe sizes, materials, class ratings;
 4. All manufacturers and model numbers;
 5. Specifications for each type of sprinkler head showing nozzle, spray pattern, radius, gpm-head, operation psi, size, etc.;
 6. All design, drawings, specifications and materials must be approved by the Department of Park and Recreation prior to the start of any installation of the irrigation system.
- D. Loose equipment to furnish:
 1. 2 keys for the controller;
 2. 2 sets of special tools required for removing, disassembling and adjusting each type of sprinkler head on this project.

RECORDED DRAWINGS

- E. The contractor shall maintain one record set of blue-line prints of the irrigation system in good condition at the site and mark on them the exact 'record'. The Contractor shall make a daily record of all work installed during each day. Drawings shall indicate the exact location of check valves, gate valves, wire locations, head layout, automatic valves, quick couplers, all irrigation and drainage piping, etc., shall be shown on the prints. Locations should be shown by the triangular system of measurements from easily identified permanent features, such as buildings, curbs, fences, walks, etc. Drawings shall show approved substitutions if any of material including manufacturer's name and catalogue number. Drawings shall be to scale and all information shall be recorded in a neat, orderly way.
 1. On or before the date of final inspection, the Contractor shall deliver 2 sets of As-Built drawings in an Auto-CAD compatible format to the Owner. The delivery of the prints shall not relieve the Contractor of the responsibility of furnishing required information that may have been omitted.
 - F. Substitutions:
 1. The contractor shall use materials as specified herein. Material other than that specified will be permitted only after written application by Contractor and written approval by the Department of Park and Recreation
 - Substitutions will only be allowed when in the best interest of the Owner; and,
 3. The installation of any approved substitution is the Contractor's responsibility. Any changes required for installation of any approved substitution must be made to the satisfaction of the Owner and without additional cost to the Owner.

906.2 MATERIALS

- A. Backflow Preventer: Shall conform to local authorities having jurisdiction, which shall be incorporated into the irrigation system. A positive shut-off valve shall be installed between the water meter and the backflow preventer in accordance with Wichita Department of Public Works and Utilities regulations. If products and procedures specified with these documents do not meet local codes and regulations, the correct backflow prevention devices will be provided and installed by the contractor.
- B. Pipe: All piping shall be from virgin parent material. The pipe shall be homogeneous throughout and free from visible cracks, holes, foreign materials, blisters, deleterious wrinkles and dents. All pipe shall be National Sanitation Foundation (NSF) approved.
 - Piping on pressure side of irrigation control valves:
 - On sizes 2" and larger shall be Polyvinyl Chloride (PVC) 1120 Gasket Joint SDR-21 meeting ASTM D-2241 sized to maintain a flow velocity of less than 5 feet per second.
 - On sizes 1 1/2" and smaller shall be Polyvinyl Chloride (PVC) 1120 Bell-Ended SCH-40 ASTM D-1785, sized to maintain a flow velocity of less than 5 feet per second
 - Piping on non-pressure side of irrigation control valves shall be one of the following:
 - Polyvinyl Chloride (PVC) 1120 Bell-Ended SCH-40 ASTM D-1785, sized to maintain a flow velocity of less than 5 feet per second.
 - Polyvinyl Chloride (PVC) 2110 minimum Schedule 40.
 - Piping for threaded nipples: Polyvinyl chloride PVC 1120 SCH-80 ASTM D-1784

Piping under streets, driveways, parking lots and similar structures shall be restrained joint gaskets piping such as Certa-lok or approved equal.

Tube based drip irrigation products shall be prohibited.

Fittings:

- A. Fittings on pressure side of irrigation control valves:
 - Shall be Polyvinyl Chloride (PVC) meeting ASTM D-1785 Class 200 conforming to requirements of SDR-21 Fittings shall be pressure rated and designed to withstand a minimum of 630 psi quick burst pressure at 73 degrees F, tested in accordance with ASTM D1599. Bell shall be gasketed joint conforming to ASTM D 3139 with gaskets conforming to ASTM F477. Push joint or Mechanical Joint Duocite from Fittings meeting AWWA C153 shall be allowed as alternative when PVC sizes are not available. On sizes 1 1/2" and smaller fittings shall be polyvinyl chloride (PVC) SCH. 40 or 80, to meet ASTM D2466-7 or D-2467-73 Threaded PVC nipples shall be Schedule 80. **The use of reducing male adapters shall be prohibited.**
 - Fittings on non-pressure side of irrigation control valves:
 - Shall be polyvinyl chloride (PVC) SCH. 40 or 80, to meet ASTM D2466-7 or D-2467-73 Threaded PVC nipples shall be Schedule 80. Fittings shall be pressure rated.
- D. Main and Manual Shut-off Valves: Up to 3 inch size: 125 pound bronze construction, non-rising stem type, sized to line.
- H. Quick Coupling Valves:
 1. Valve and key shall be Rainbird® Model 44;
 2. Have purple (non-potable) lid.
 3. Contractor shall supply one Rainbird® model 44 key and hose swivel per quick coupling valve installed up to a total of three (3).
- I. Valve Boxes:
 1. To be injected-molded of polyesters and fibrous inorganic temperature resistant components. Box and lid to be green, body to have stainless steel nut molded into it and have the ability to be locked with a stainless steel bolt through the lid.
 - 1 For Remote Control Valve: Shall be rectangular in shape and sized to provide adequate clearance to operate and service valve; and,
 2. For Shut-off Valves and Quick Coupler Valves: Shall be round, approximately 10 inches.
- J. Manual Drain Valve: Shall be manual angle valve.
- K. Sprinkler Heads:
 1. Rotors shall be Hunter® I-20, I-25 or I-40 rotors, 360 degree heads will be used in full rotational areas and adjustable arc heads in areas requiring less than full circle irrigation. Rotors to be equipped with check valve in head to prevent low head drainage issues.
 2. Spray heads shall be Rainbird® SAM heads with low head drainage check valve.
 - L. Spray Nozzles: Shall be Rain Bird® fixed arc.
 - M. Automatic Controller: New and unused Calsonic® Model CS 3000, as manufactured by Calsonic Inc, 2075 Corte del Nogal, Suite F, Carlsbad, CA 92011, (800) 572-8688. Controller shall communicate with City of Wichita central irrigation control system via GPRS radio modem installed at factory within controller. As part of the control system a Calsonic® flow sensor, Model FM, of appropriate size shall be installed at the point of connection to water source of this project. A master valve shall be installed in to allow for the system to stop irrigation and water flow in the event of main line or other piping failure. Control system shall not use decoder modules in the field for the control of valves. System controls shall control only one valve in the field per each controller/zoning station. Controller shall be equipped with Calsonic transient surge protector and accessories shall be installed as per manufacturer's specifications. **Note: the manufacturer's specifications for the installation of grounding provisions, wire type and wire connectors must be followed exactly.** Irrigation contractor shall contact Calsonic factory for field engineer/technical representative support in the installation of this project. The contractor shall be responsible for providing one year of Calsonic communication service required for the GPRS communications. **NO SUBSTITUTES.**
 - N. Acceptable models and manufacturer's listed below:
 - Calsonic® Model RB-1--NO SUBSTITUTES
 - O. Electrical Conduit and Fittings:
 1. Underground plastic conduit: Class III, ES W-C1094
 - Control Wires
 - Wire: 14AWG minimum. UL listed for direct bury in ground. Common ground wire shall be white. Valve wires to be red and spare wire to the furthest valve will be blue. Field wire will not be installed by 'pulling' with a vibratory slow.
 - R. Splicing Materials:
 1. Splicing Materials: 3M® Direct Bury (DBY) splice kits by 3M Corporation, Austin TX (512) 984-5667 or 3M® 314 IR. Splices or 3M™ Scotchcast™ Connector Sealing Pack 3570G-N.
 - S. Remote Control Valves:
 1. Shall be Rainbird PGA, PEB, or PESB series valves, slow opening and slow closing, globe configuration, 24v solenoid and flow control system and shall be approved by the Department of Park and Recreation prior to installation. PESB-R valves shall be required in systems utilizing reclaimed water sources. Valves shall be threaded and **reducing male adapters are prohibited.**
 - T. Backflow Preventer Cover:
 1. Strong Box Products Inc. Escobedo, Ca 1(800)729-1314 or Saf-T-Cover by Hydro-Cowl®. Nashville TN 1-800-245-6338r Guard-shack, Phoenix, AZ (602) 426-1002
 - U. Swing Joint Assemblies:
 1. All heads with a flow greater than 5 f.p.s. will be required to have a Sch 80 swing joint riser assembly. Spears part # 5807-01010 or approved equal.
 2. Heads with flows below 5 f.p.s. shall have a swing pipe assembly made of 12" minimum and 18" maximum of swing (funny) pipe and 2 barb x nipt elbows.
 - V. Thrust Blocks:
 1. Main line piping will have concrete thrust blocking at all changes in direction and pipe size.
 2. Thrust block size is determined by the pipe size and type of soil that will bear the load.
 3. Thrust blocks will be installed between the pipe or fitting and undisturbed soil. Thrust blocks against backfill will not be accepted.
 4. Refer to pipe manufacturer's specifications for details of minimum size and bearing capacity.

906.3 INSTALLATION

- A. The Irrigation Contractor shall carefully schedule his work with the Landscape Contractor and all other site developments.
- B. Sleeves are required wherever piping or electrical wires are placed under paved surfaces.
- C. No consideration will be given to any design changes. Should any changes be deemed necessary after award of contract, for proper installation and operation of the system, the Owner shall negotiate such changes.
- D. Lay out work as accurately as possible to the submitted shop drawings.
- E. Full and complete coverage is required. Contractor shall make any necessary adjustments to layout as required to achieve full coverage of irrigated areas at no additional cost to the Owner.
- F. Where piping is shown on drawings to be under paved areas but running parallel and adjacent to planted areas, the intent is to install piping in planted areas. Do not install directly over another line in same trench.
- G. It shall be the Contractor's responsibility to establish the location of all sprinkler heads in order to assure proper coverage of all areas. In no case shall spacing of sprinkler head exceed distances shown on the drawings and/or those specified. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes will be permitted, but substitutions of larger sizes may be approved. All pipe damaged or rejected because of defects shall be removed from the site at the time of said rejection, at no additional cost to the Owner.
- J. Install irrigation system after completion of site grading, coordinate with Department of Park and Recreation in order to determine what landscape materials will be removed. The irrigation system shall be installed and completely operational three days prior to the installation of any planting operations.
 1. All main and lateral line piping to be sized to keep flow rates of the water below 5 f.p.s. or as specified in the drawings.

TRENCHING

- A. Perform all excavations as required for installation of work included under this Section, including shoring of earth banks, if necessary. Restore all surfaces, existing underground installations, etc., damaged or cut as a result of the excavations, to their original condition.
- B. Should utilities not shown on the drawings be found during excavations, Contractor shall promptly notify the Owner for instructions as to further action. Failure to do so will make the Contractor liable for any and all damage thereto arising from his operations subsequent to discovery of such utilities. Indicate such utility crossings on the record drawings promptly.
- C. Trenches shall be open, vertical sides construction wide enough to provide free working space around work installed and be minimum necessary to provide space for backfilling and compacting.
- D. When 2 pipes are to be placed in the same trench, a 6 inch space is to be maintained between pipes. The Contractor shall not install 2 pipes with one directly above the other.
- E. Depth of trenches shall be sufficient or provide a minimum cover above the top of the pipe as follows or as shown in drawings if greater:
 - 14 inches over non-pressure lateral lines
 - 18 inches over non-pressure lateral lines under paving
 - 18 inches over control wires
 - 18 inches over sprinkler main line
 - 24 inches over sprinkler main line under paving

- F. The Contractor shall cut trenches for pipe to required grade lines and compact trench bottom to prove accurate grade and uniform bearing for the full length of the line.
- G. All laterals and mainline shall be sufficiently sloped to provide positive drainage through drain valves.
- H. All excavations shall be completely backfilled as soon after inspection as practicable. Adequate precaution shall be taken to insure proper compactness of backfill around piping without damage to such piping.
- I. Trenches shall be backfilled in thin layers to twelve (12) inches (305 mm) above the top of the piping with clean earth which shall not contain stones, boulders, cinderfill, frozen earth, construction debris, or other materials which would damage or break the piping or cause corrosive action. Mechanical devices may be used to complete the backfill to grade. Fill shall be properly compacted. Suitable precautions shall be taken to insure permanent stability for pipe laid in filled or made ground. Soak, as required, all trenches to prevent settlement and uneven grades.
- J. Contractor will be responsible for the continual backfill and grading of any settling trenches for the entire warranty period.
- K. The Contractor shall be held responsible for any damages caused by these operations and shall immediately repair or replace damaged parts.

PIPE LINE ASSEMBLY

- A. General:
 1. Install pipes and fittings in accordance with manufacturers latest printed instructions;
 2. Clean all pipes and fitting of dirt, scales and moisture before assembly;
 3. All pipe, fittings and valves, etc., shall be carefully placed in the trenches. Interior of pipes shall be kept free from dirt and debris and when pipe laying is not in progress, open ends of pipe shall be closed by approved means; and,
 4. All lateral connections to the mainline as well as all other connections shall be made to the side of the mainline pipe. No connections to the top of the line shall be allowed.
- B. Solvent-Weld Joints for PVC Pipes:
 1. Use primer, purple in color meeting ATSM F-656, clear primer will not be accepted, and PVC Medium bodied solvent cement, clear in color meeting ATSM D-2564 and use methods of joining approved by pipe and solvent manufacturers; and,
 2. Cure joint a minimum of 15 minutes before applying any external stress on the piping and at least 24 hours before placing the joint under water pressure, unless otherwise specified by manufacturer.
- C. Threaded Joints for PVC Pipes:
 1. Use Teflon tape on all treated PVC fittings;
 2. Use strap-type friction wrench only. Do not use metal-jawed wrench; and,
 3. When connection is plastic to metal, male adapters on the plastic pipe shall be used. The male adapter shall be hand tightened, plus 1 turn with a strap wrench.
- D. Laying of Pipe:
 1. Pipes shall be bedded in at least 2 inches of finely divided material with no rocks or clods over 1 inch diameter to provide a uniform bearing;
 2. Pipe shall be snaked from side to side of trench bottom to allow for expansion and contraction. One additional foot per 100 feet of pipe is the minimum allowance for snaking. Do not lay PVC pipe when there is water in the trench;
 4. Plastic pipe shall be cut with PVC pipe cutters or hacksaw, or in a manner so as to ensure a square cut. Bars at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained; and,
 5. All plastic to plastic joints will be solvent-weld joints or slip seal joints. All plastic pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer and it shall be the Contractor's responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The contractor shall assume full responsibility for the correct installation.
- E. PVC Sleeves and Electrical Conduit:
 1. All PVC sleeves shall be a minimum of twice (2x) the diameter of the pipe to be sleeved; and,
 2. All PVC control wire conduit shall be of sufficient size to hold the required quantity of control and common wires

906.4 EQUIPMENT

- SHUT-OFF VALVES:
 - A. Shall be located in the following locations:
 1. After water meter
 2. All shut-off valves shall be located in valve boxes.
- IRRIGATION CONTROL VALVES:
 - A. Install control valves in valve boxes grouping together where practical. Place no closer than 12 inches to walk edges, buildings and walls.
 - B. Valves shall be installed as shown in details and in accordance with manufacturer's instructions and the specifications.
- MANUAL CONTROL VALVES:
 - A. Install control valves in valve boxes grouping together where practical. Place no closer than 12 inches to planter edges, walk edges, buildings and walls.
- QUICK COUPLING VALVES:
 - A. Install in lawn areas with the top flush with the finish grade, and 8" from pavements and heads.
 - B. Install in planting areas with tops 2 inches above grade and 8 inches from pavement and heads.
 - C. Stake each quick coupling valve with 2"x2" kno-free redwood stake set a least 24 inches into the earth, and extended sufficiently above the surface to ensure stability of the riser. Secure the riser to the stake with an adjustable stainless steel geared clamp
 - D. Valves shall be installed on 3 elbow PVC Schedule 80 swing joint assembly.

VALVE BOXES

- A. Valve boxes shall be set flush with finish grade in lawn areas and 1/2 inch above finish grade in ground cover and shrub bed areas.
- SPRINKLER HEADS:
 - A. All sprinkler heads within a zone shall have matched precipitation rates.
 - B. All heads operating on one valve (zone) shall do so at the same pressure.
 - C. All heads shall be pop-up style type heads. Permanent shrub risers are not permitted.
 - D. Do not mix different types of heads within zone.
 - E. Shrub beds and lawn areas are to be on separate valves (zones).
 - F. Place part-circle pop-up sprinkler heads 2 inches from edge of adjacent walks, curbs and mowing beds, or paved areas at time of installation.
 - G. All sprinkler nozzles shall be adjusted for the proper radius and direction of spray pattern. Make adjustments where possible to prevent over spraying into walks, pavement or buildings.
 - H. Sprinkler heads and quick coupling valves shall be set perpendicular to finished grade unless otherwise designated on the drawings.
- SHRUB SPRAY HEADS:
 - A. All heads with flows greater than 5 f.p.s. shall have a Sch 80 Swing Joint Riser Assembly.
- INSTALLATION:
 - A. Install where indicated on the drawings and in accordance with the manufacturer's recommendations as approved by the Department of Park and Recreation.
 - B. Install part-circle heads 4 inches from curbs and 2 inches from walks.
 - C. Stake each shrub head with #6 reinforcing steel bar and secure with adjustable stainless steel geared clamp to ensure stability.

BACKFLOW PREVENTER:

- A. Install reduced pressure principal backflow prevention device where indicated on the plans and in accordance with all pertinent codes, regulations and the Manufacturer's recommendations as approved by the Water purveyor.
- B. Unit is to be plumbed with unions to facilitate removal in winter. Provide a quick-coupler with purple (Non-potable) lid for blow out. Install fitting between the water meter and the backflow preventer. Risers and 24" past the 90° ell on inlet and discharge of backflow preventer shall be type L copper, ductile iron or other approved material.
- C. Unit is to be housed in an adequate sized cover, being insulated to resist freezing, and mounted on a concrete base as recommended by the Manufacturer. Concrete bases shall not be in contact with piping.
- AUTOMATIC CONTROLLER:
 - A. The automatic controller shall be installed at the location approved by the Department of Park and Recreation. Controller shall be wall mounted in a locking box.
 - B. All regulatory authorities having jurisdiction and other applicable codes shall take precedence in connecting the 110-volt electrical service to the controller.
 - C. Install per regulatory authority having jurisdiction code, manufacturer's latest printed instructions, and as detailed.
 - D. Connect remote control valves to controller in sequence to correspond with station setting beginning with 1,2,3, etc.
 - E. Affix a non-fading copy of irrigation diagram to cabinet door below controller name. Irrigation diagram to be sealed between two sheets of 20 mil (minimum) plastic. Irrigation diagram shall be a reduced copy of the as-built drawing and shall show clearly all valves operated by the Controller, showing station number, valve size and type of planting irrigated.

CONTROL WIRING

- A. All electrical equipment and wiring shall comply with regulatory authorities having jurisdiction and be installed by those skilled and licensed in the trade.
- B. Wiring shall occupy the same trench and shall be installed along the same route as pressure supply or lateral lines wherever possible.
- C. Control wires shall be installed to the side of the main line whenever possible. Placement over pipes is not permitted.
- D. Control wire splices at remote control valves to be crimped and sealed with specified splicing materials. Line splices will be allowed only on runs of more than 500 feet and they must be located in 10 inch round splice boxes, which are green in color. The connector shall be 3M® DBY splice kit by 3M® Corporation, or 314 IR connector by 3M®.
- E. Wire will include 2 spare conductors installed its entire length and to the automatic controller. Label spare conductors in the timer 'spare wire'.

CLOSING OF PIPE AND FLUSHING OF LINES

- A. All testing shall be done under the supervision of the Owner or Owner's Representative. Submit written requests for inspections to the Department of Park and Recreation at least 3 days prior to anticipated inspection date.
 1. Thoroughly flush out all water lines under a full head of water before installing heads, valves, quick couplers assemblies, etc. Maintain flushing for a minimum of three minutes at the valve located furthest from water supply.
 2. After flushing, top or plug all openings to prevent entrance of materials that would obstruct the pipe or clog heads. Leave in place until removal is necessary for completion of installation.
 3. Test as specified below.
 4. Upon completion of testing, complete assembly and adjust sprinkler heads for proper distribution; and,
 5. All sprinkler heads and quick coupling valves shall be set perpendicular to finished grades unless otherwise designated on the drawings, otherwise specified. Sprinkler heads adjacent to existing walks, curbs and other paved areas, shall be set to grade. Sprinkler heads, which are to be installed in lawn areas where the turf has not yet been established, shall be set 1 inch above the proposed finish grade. Heads installed in the manner will be lowered to grade when the turf is sufficiently established to allow walking on it without appreciable destruction. Such lowering of heads shall be done by this Contractor as part of the original contract with no additional cost to the Owner.

TESTING

- A. Make hydrostatic tests when welded PVC joints have cured as per manufacturer's instructions.
- B. Pressurized Mains:
 1. Completely install mains, isolation valves and control valves. Do not install laterals.
 2. Open all isolation valves.
 3. Fill all lines with water and shut off at meter.
 4. Pressurize the main to 100 psi. Monitor gauge for pressure loss for 2 hours.
 5. Leave lines and fittings exposed throughout testing period.
 6. Leaks resulting from tests shall be repaired and tests repeated until acceptance by Department of Park and Recreation.
 7. Test all isolation valves for leakage.
 8. Air testing is prohibited.
- C. The Contractor shall maintain proper facilities and provide safe access for inspection to all parts of the work.
- INSPECTION:
 1. Irrigation inspection shall consist of a minimum of:
 1. Mainline pressure test;
 2. Coverage test; and
 3. Final irrigation inspection.
 2. The Contractor shall be solely responsible for notifying the Owner where and when such work is in readiness for testing.
 3. If any work should be covered up without approval of the Owner it must be uncovered, if required, for examination at Contractor's expense.
 4. No inspection will commence without 'Record' drawings and without completing previously noted corrections, or without preparing the system for inspection.
 5. Final Inspection:
 - a) Clean, adjust, and balance all systems. Verify that:
 1. Remote control valves are properly balanced;
 2. Heads are properly adjusted for radius and arc of coverage;
 3. The installed system is workable, clean, and efficient.

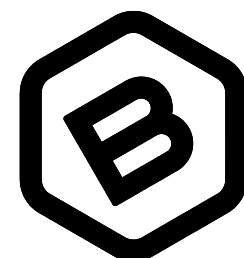
BACKFILL AND COMPACTING

- A. After system is operating and required tests and inspections have been made, backfill excavations and trenches.
- B. Backfill for all trenches, regardless of the type of pipe covered, shall be returned to the state of grade and 90% of compaction at that location before excavation began.
- C. Within all planting and lawn areas the existing 4 inch layer of topsoil shall be restored to its original condition and finish grade. After backfilling, the Contractor shall dispose of surplus earth off-site.

WARRANTY

- A. The irrigation system and all its components shall have a full one-year warranty from the installing contractor. This shall include winterization the first year and spring start-up (including backflow preventer testing), the following year.
 1. OPERATING INSTRUCTIONS:
 - A. Attach a typewritten legend inside each controller door, stating the areas covered by each remote control valve.
 - B. After the system has been completed, inspected, and approved, instruct the owner's maintenance personnel in the operation and maintenance of the system.
 - C. Provide the City with two (2) keys to the controller.
 2. Provide the City a reproducible "as-built" drawing of equal quality to the original plans (in an Auto-CAD compatible format) of the irrigation layout including:
 - a) Any variance from the original plan.
 - b) Measurements to all valves, quick couplers, and wire splices.
 - c) Clear identification of the wire route.
 - d) Expanded drawings and measurements of details not clearly visible.

END OF SECTION



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



COUNTRY ACRES DOG PARK
754 N Country Acres Ave.
Wichita, KS 67212

PROJECT NUMBER:
23-08-E572

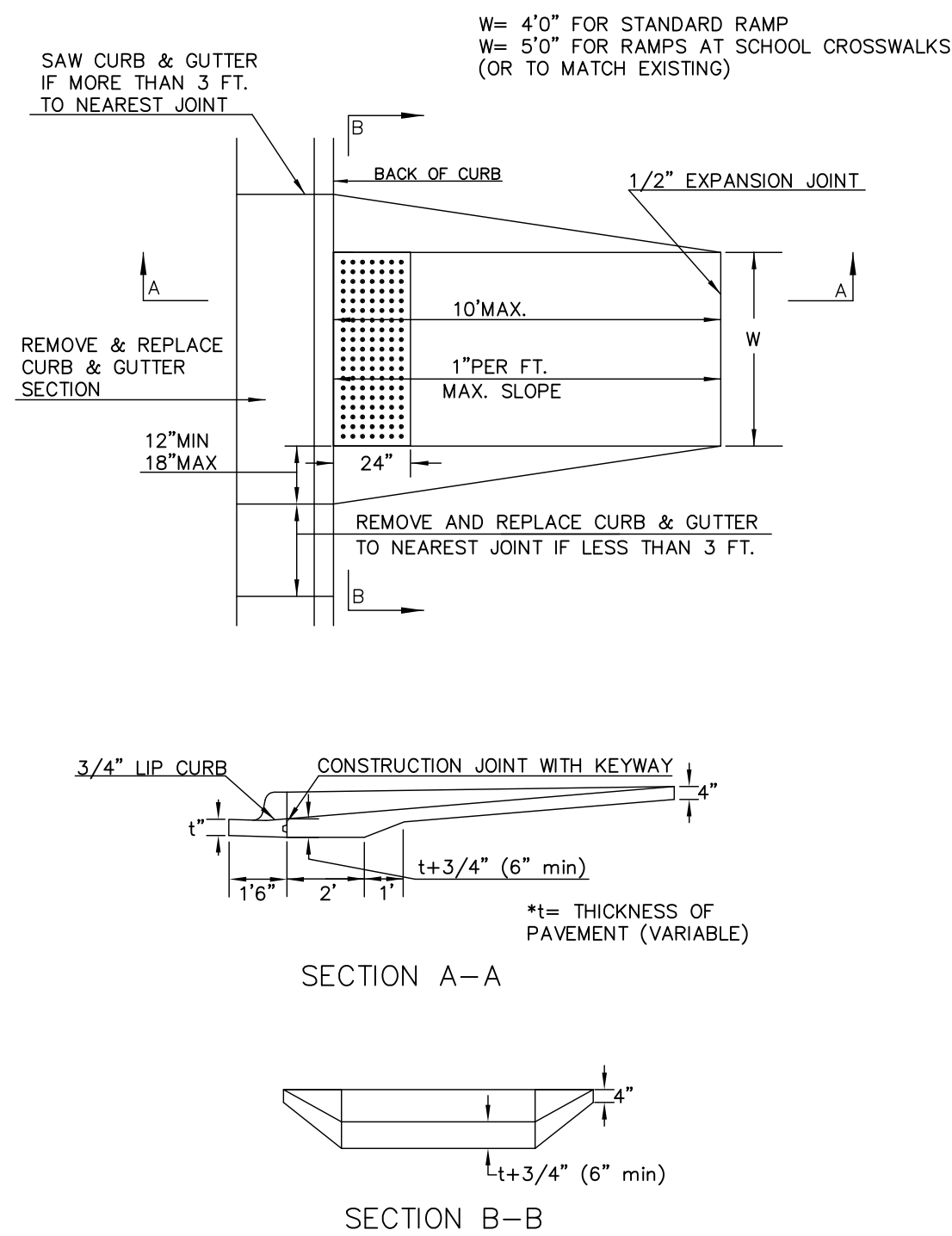
DESIGN: AH DRAWN: AH

DATE: 05/01/2024

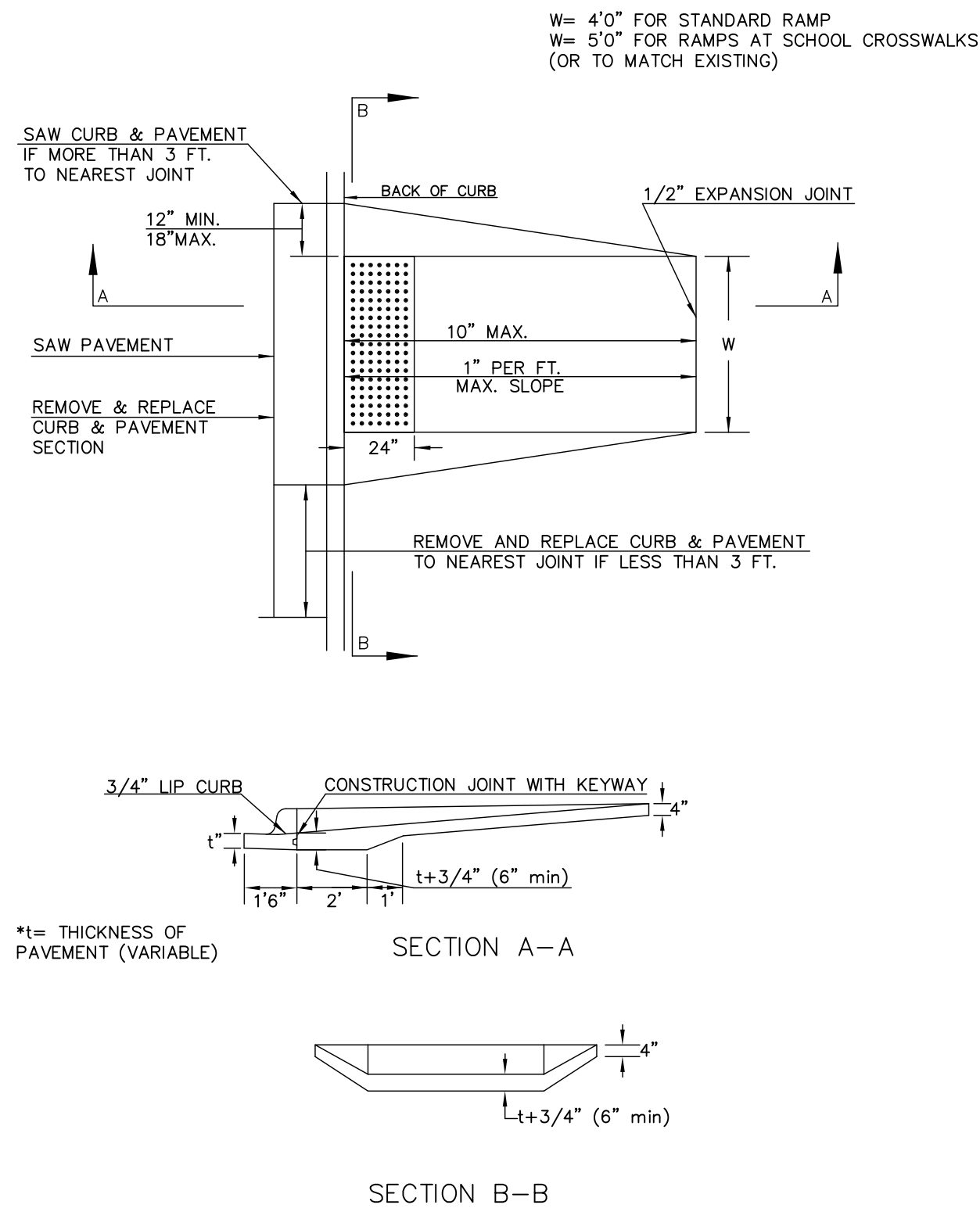
IRRIGATION
SPECS

13 of 20

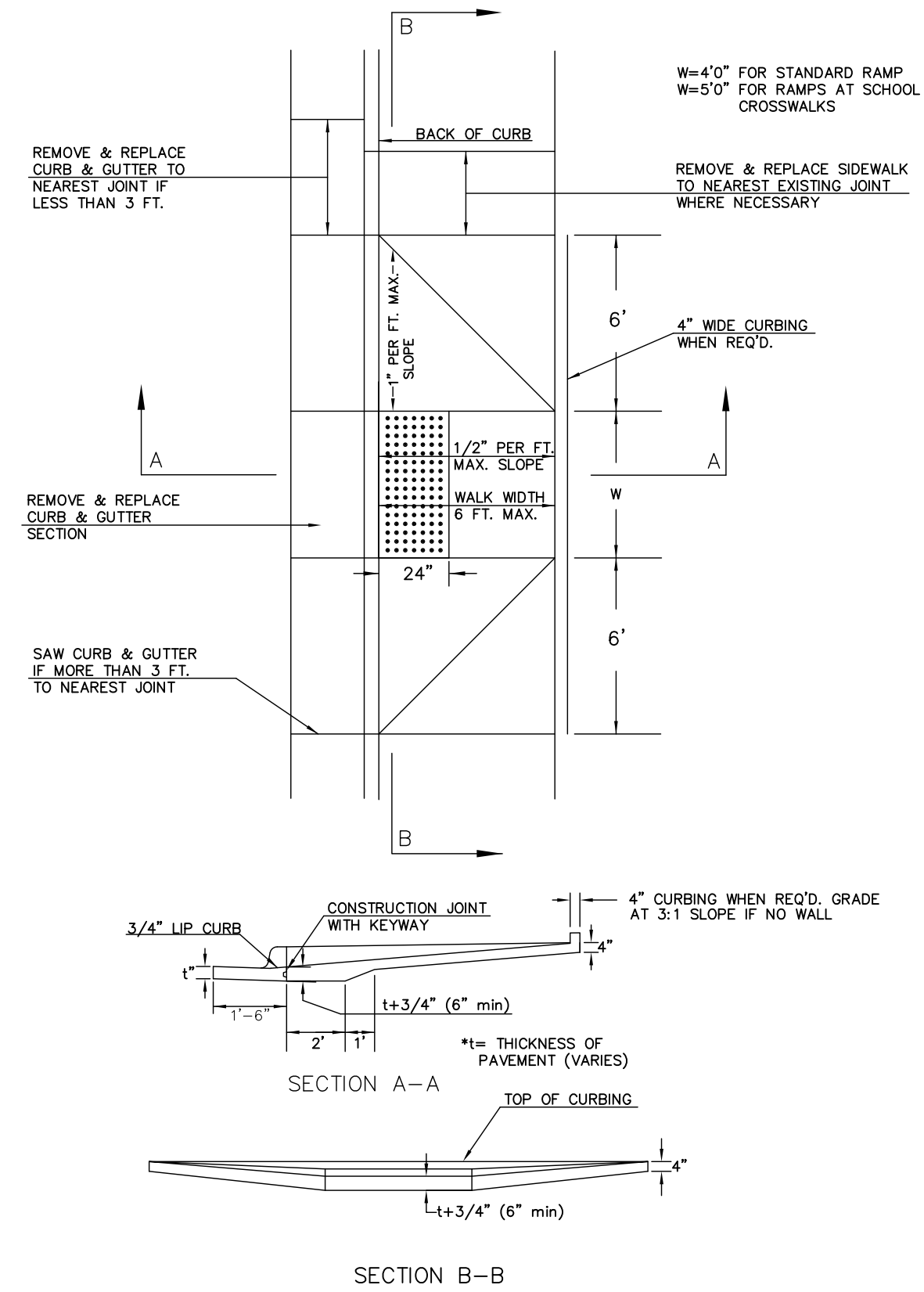
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER (TYPE A)



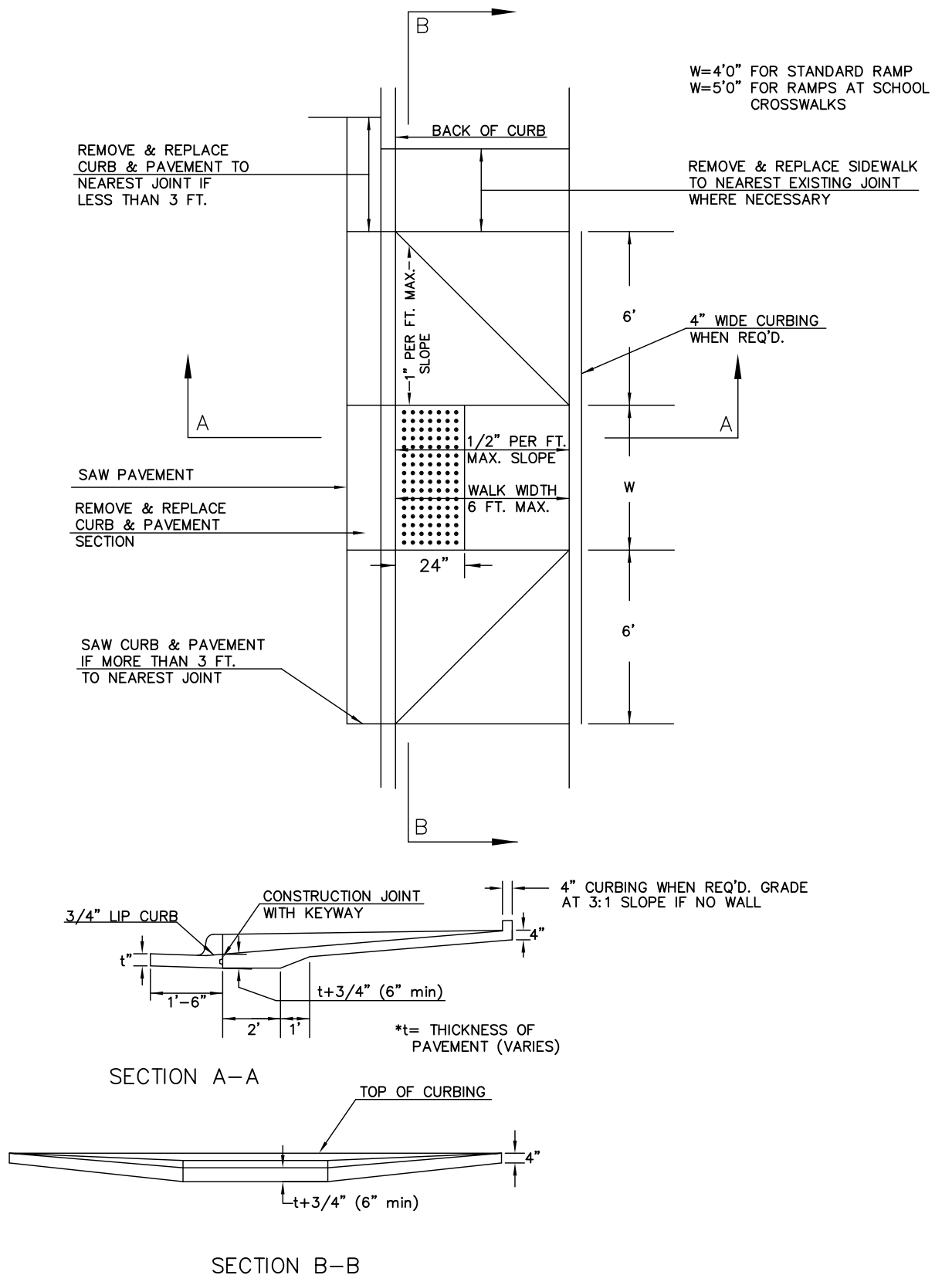
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR CONCRETE STREETS WITH MONOLITHIC CURB (TYPE A)



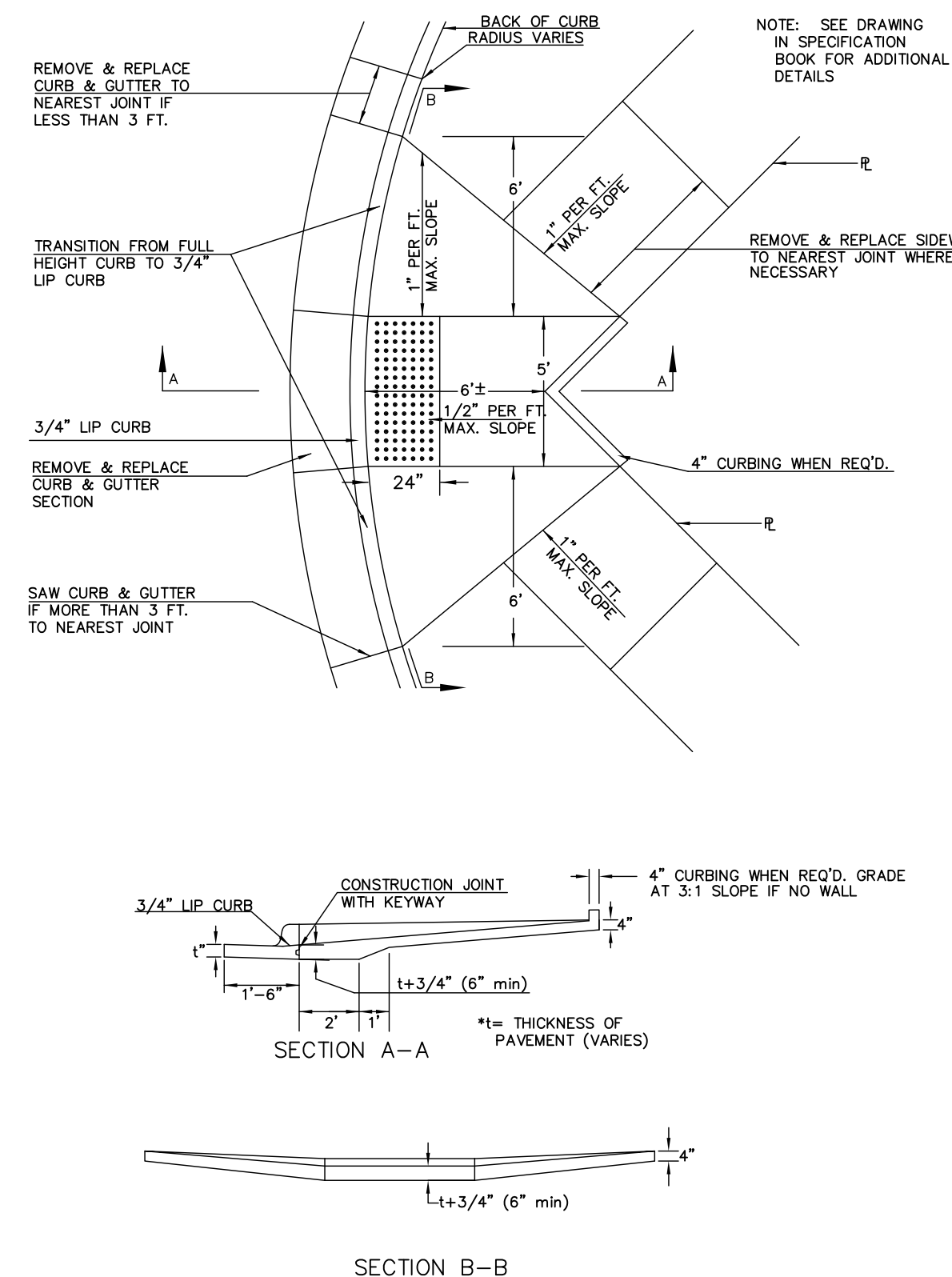
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER AND FULL WALK (TYPE B)



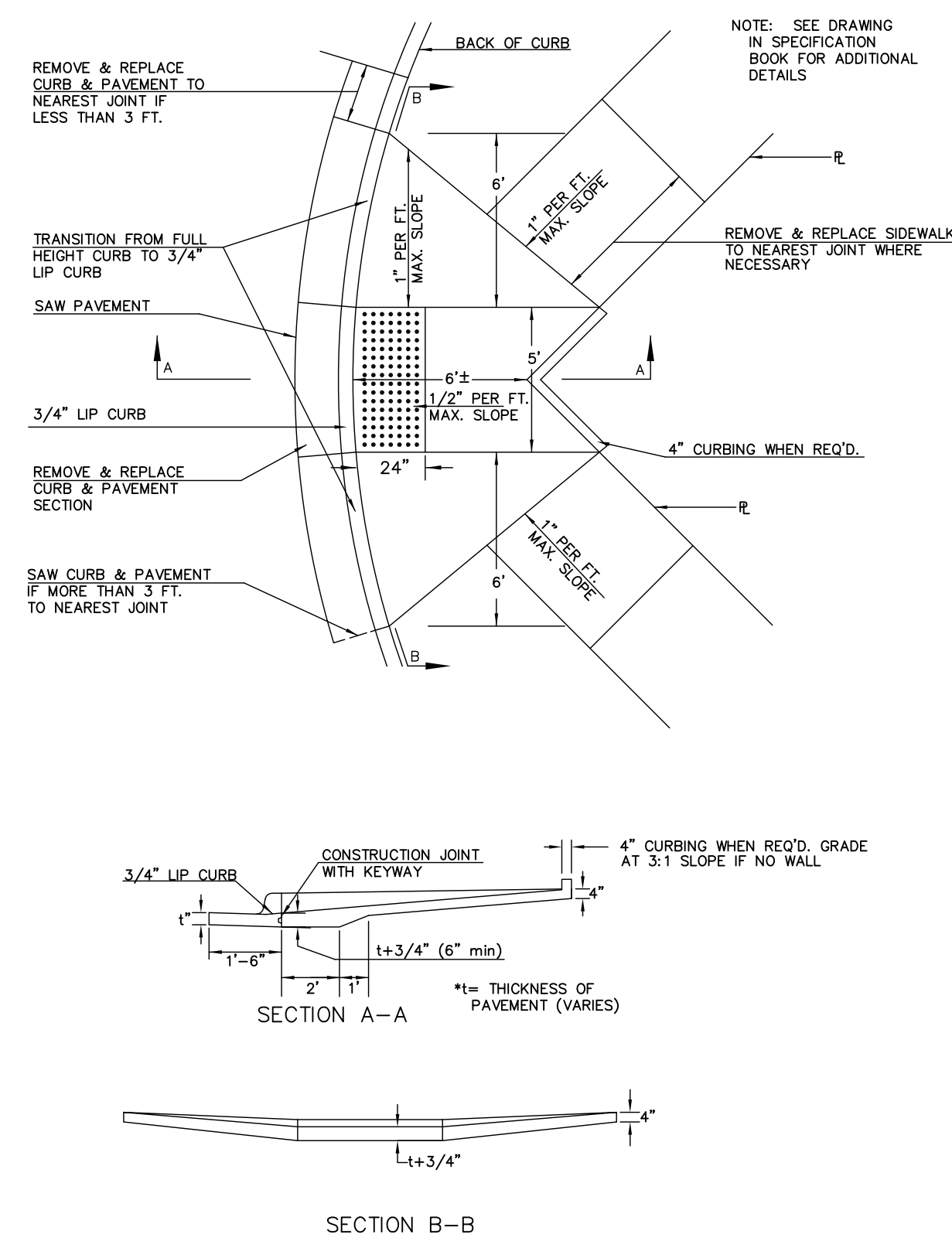
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB AND FULL WALK (TYPE B)



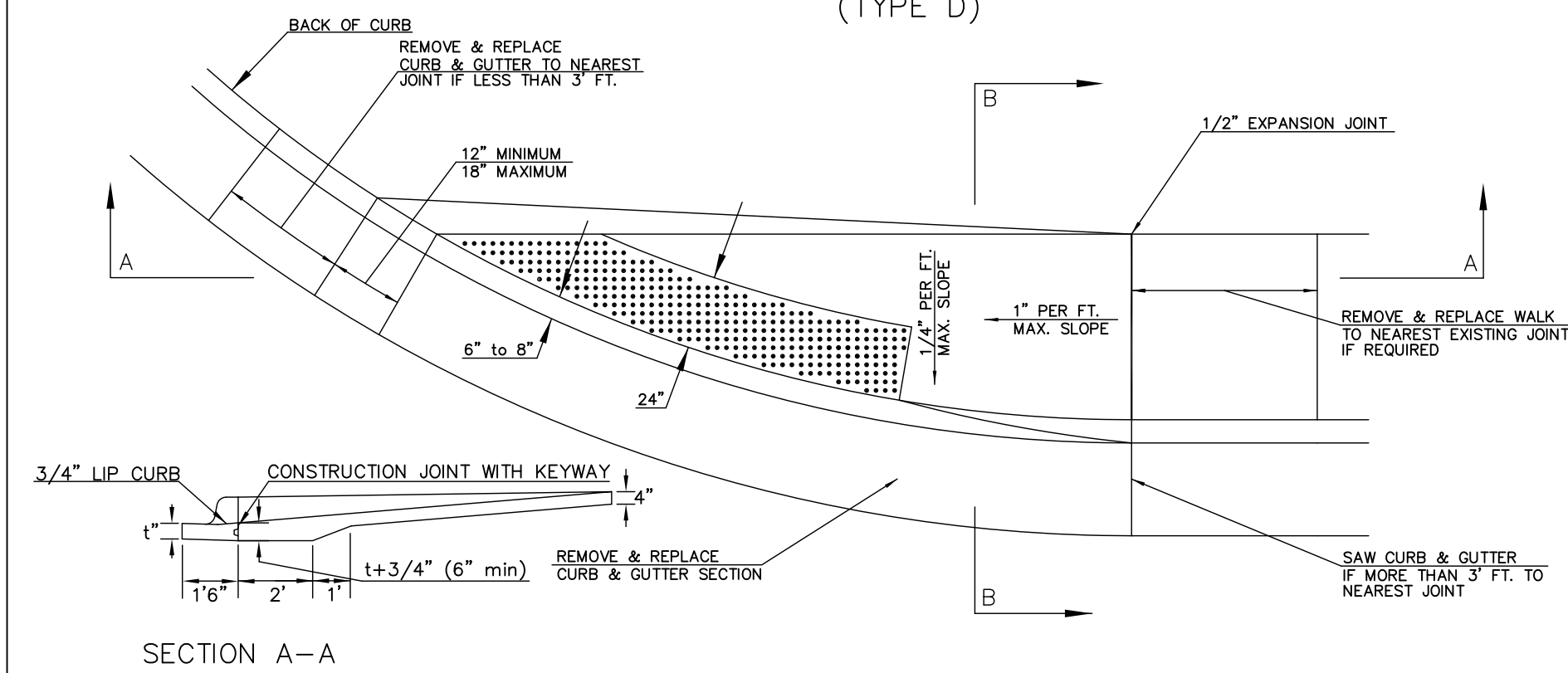
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH COMBINED CURB AND GUTTER ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



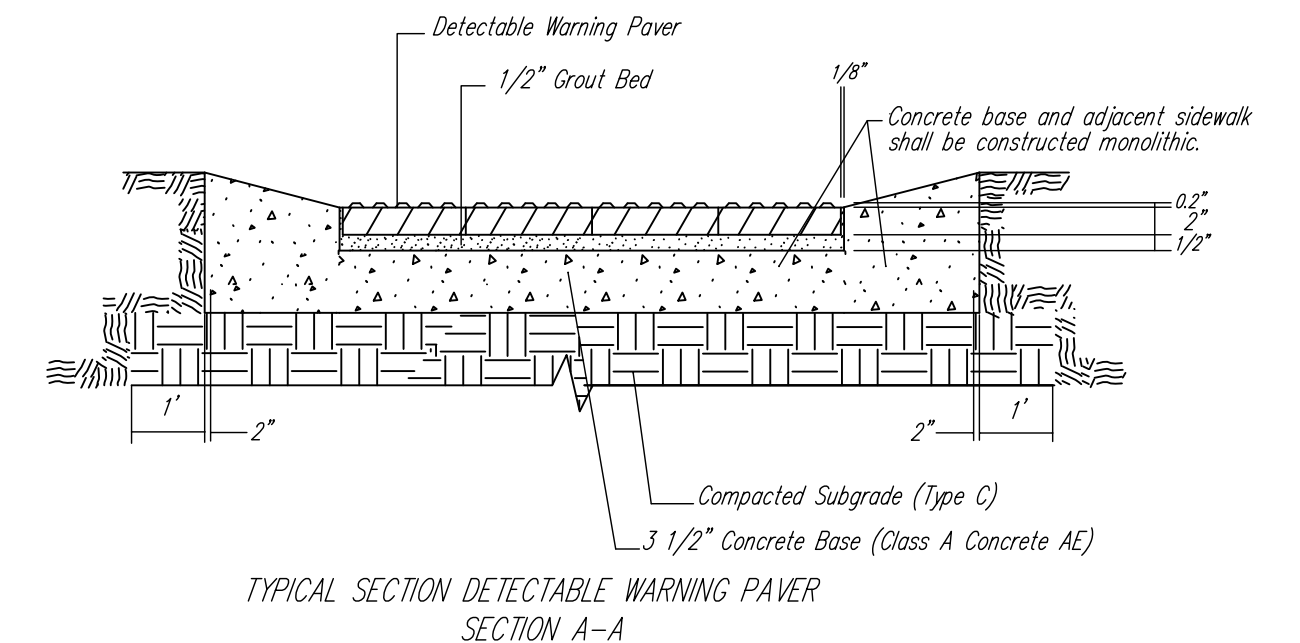
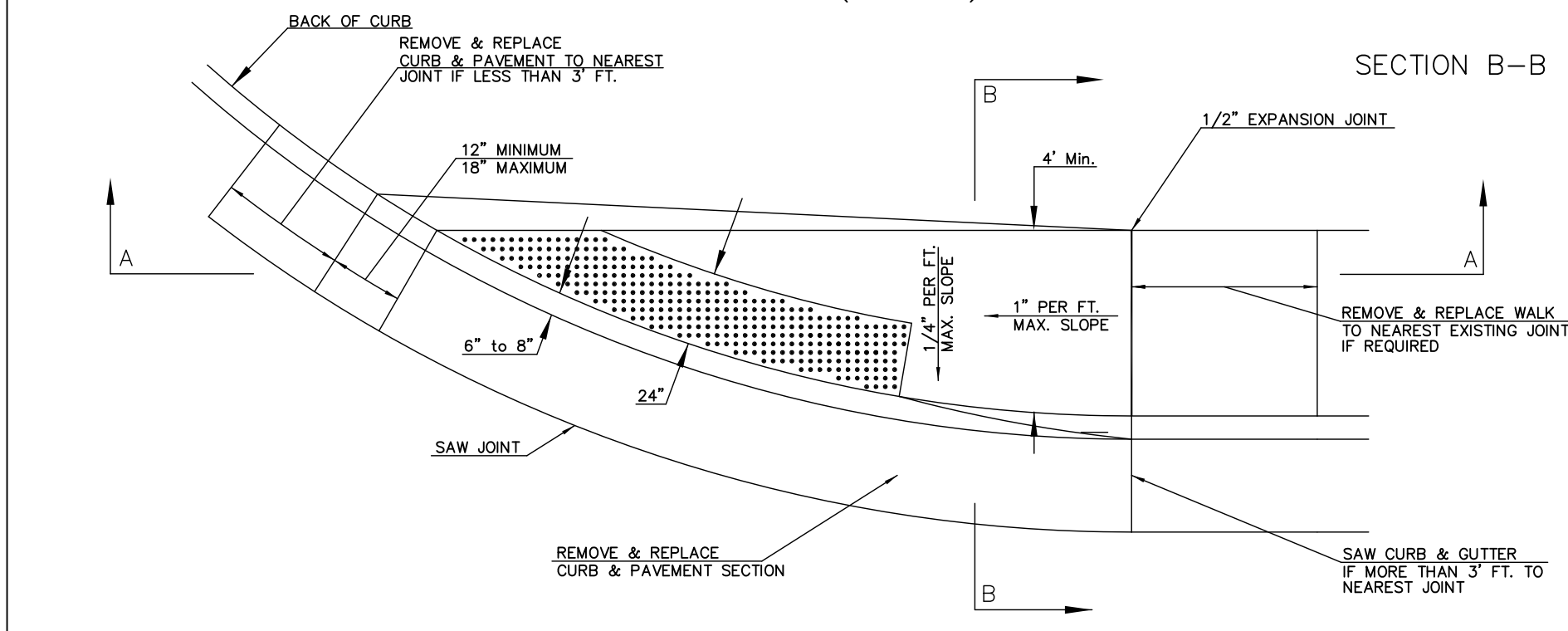
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH MONOLITHIC CURB ON RADIUS WITH 6'± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER WITH ONE FULL SIDEWALK (TYPE D)



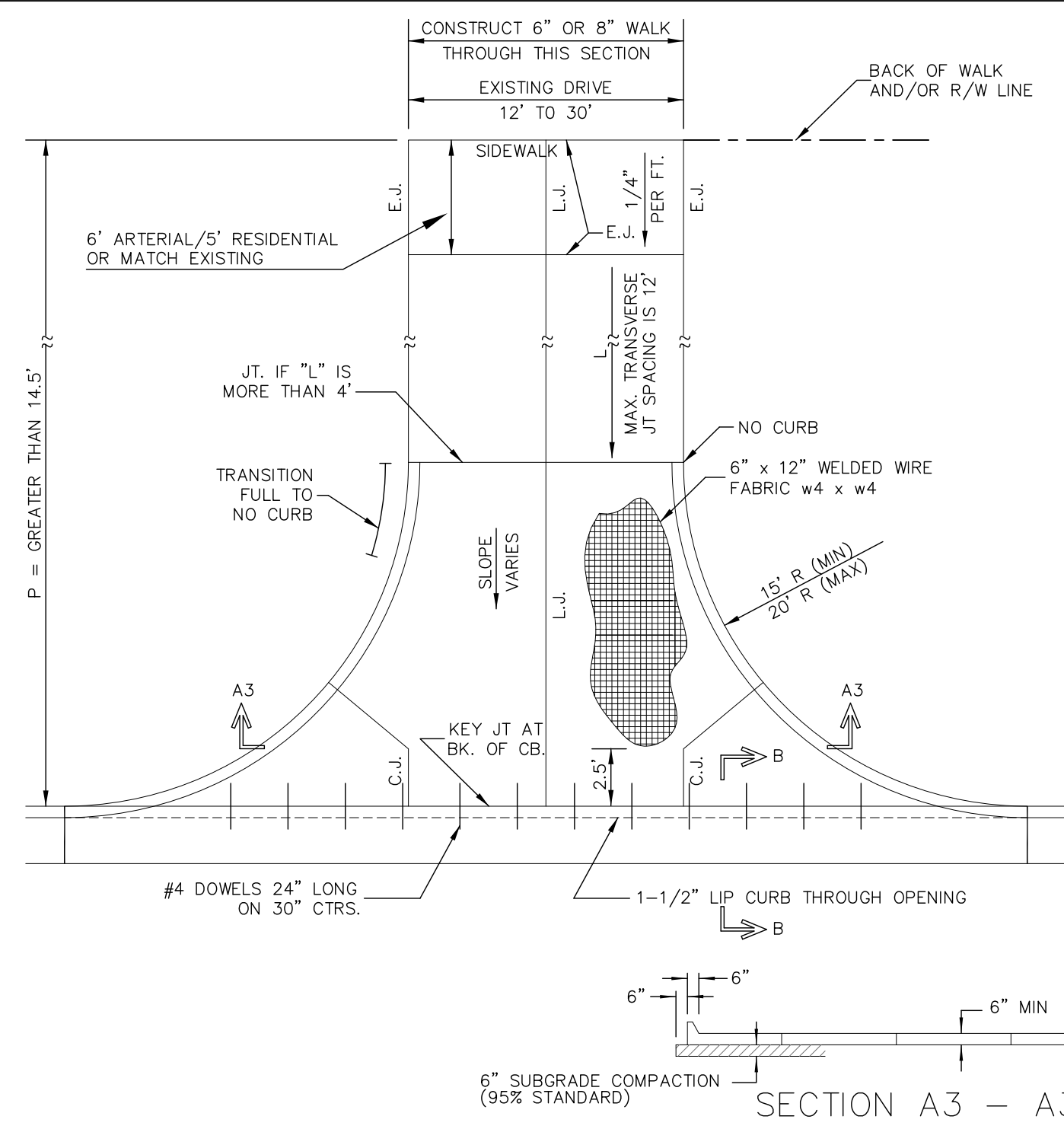
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB WITH ONE FULL SIDEWALK (TYPE D)



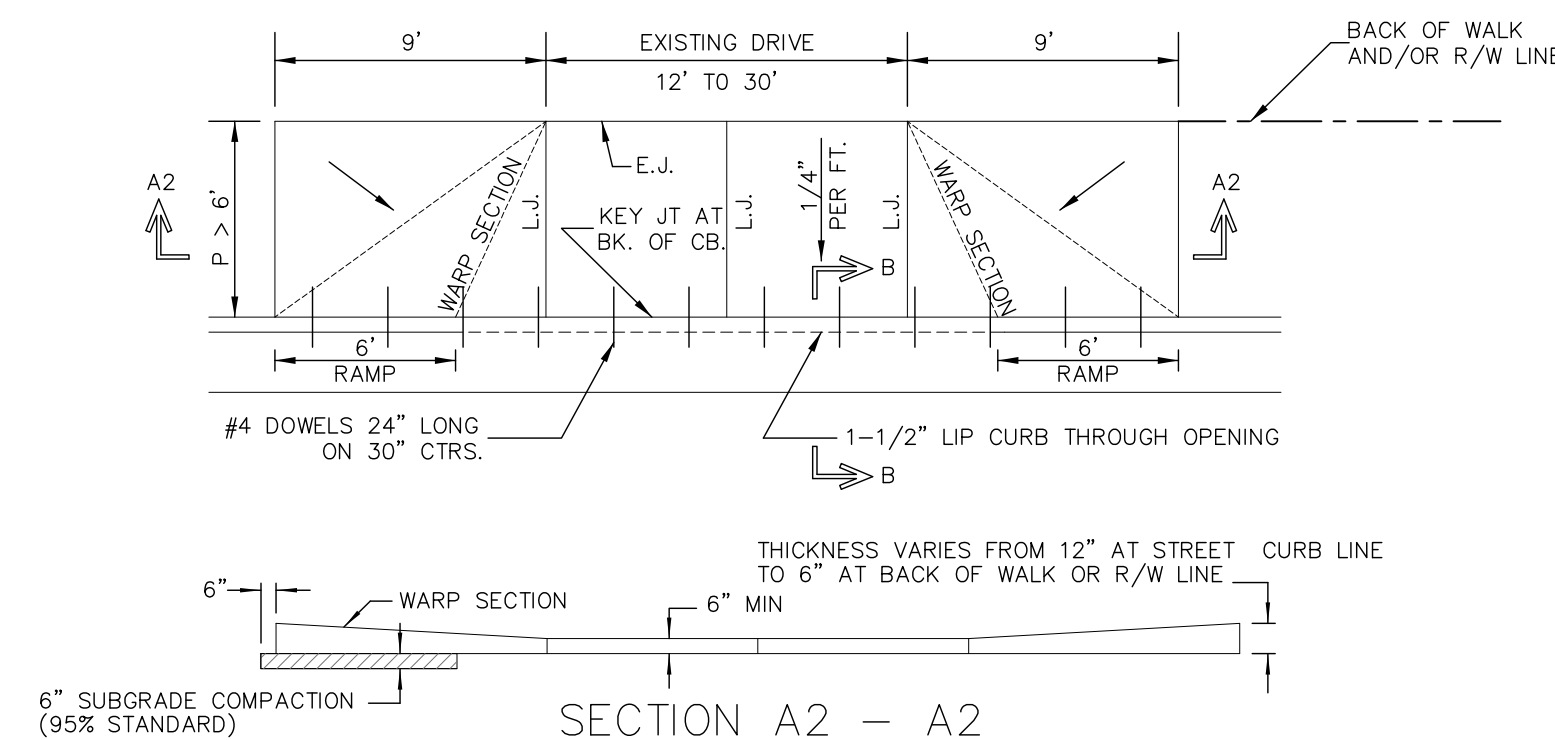
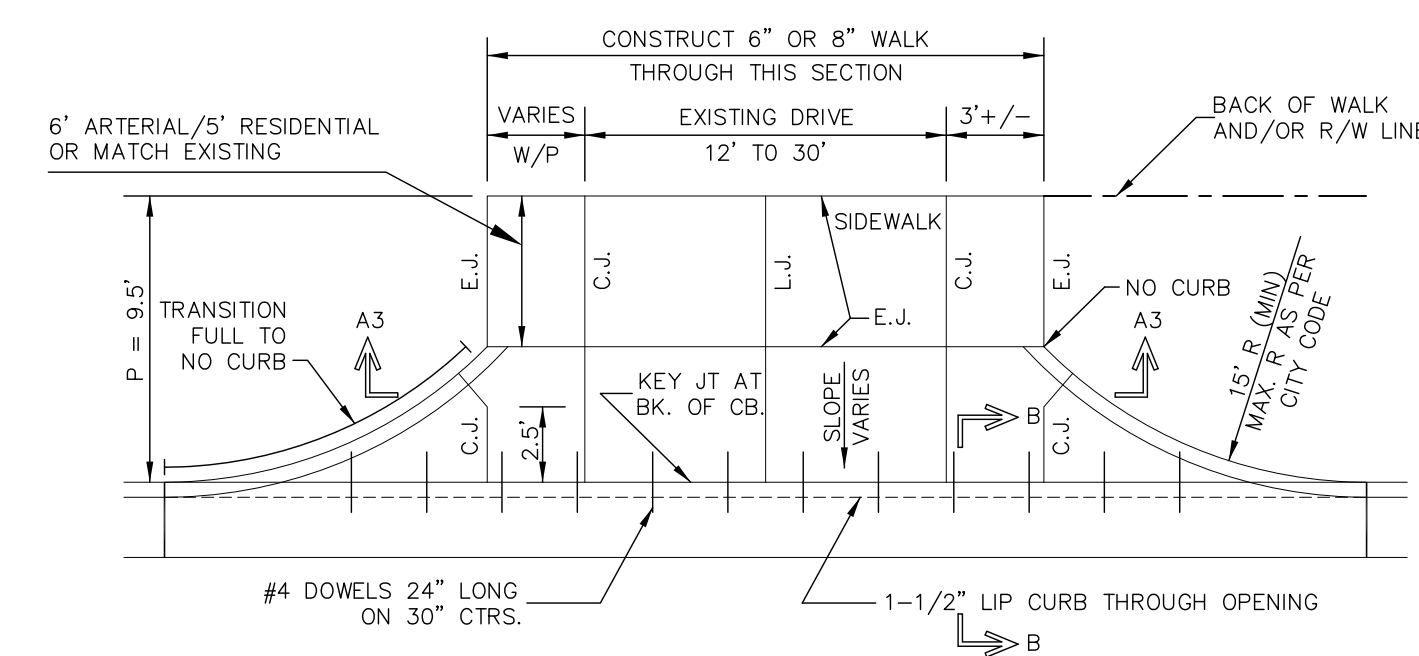
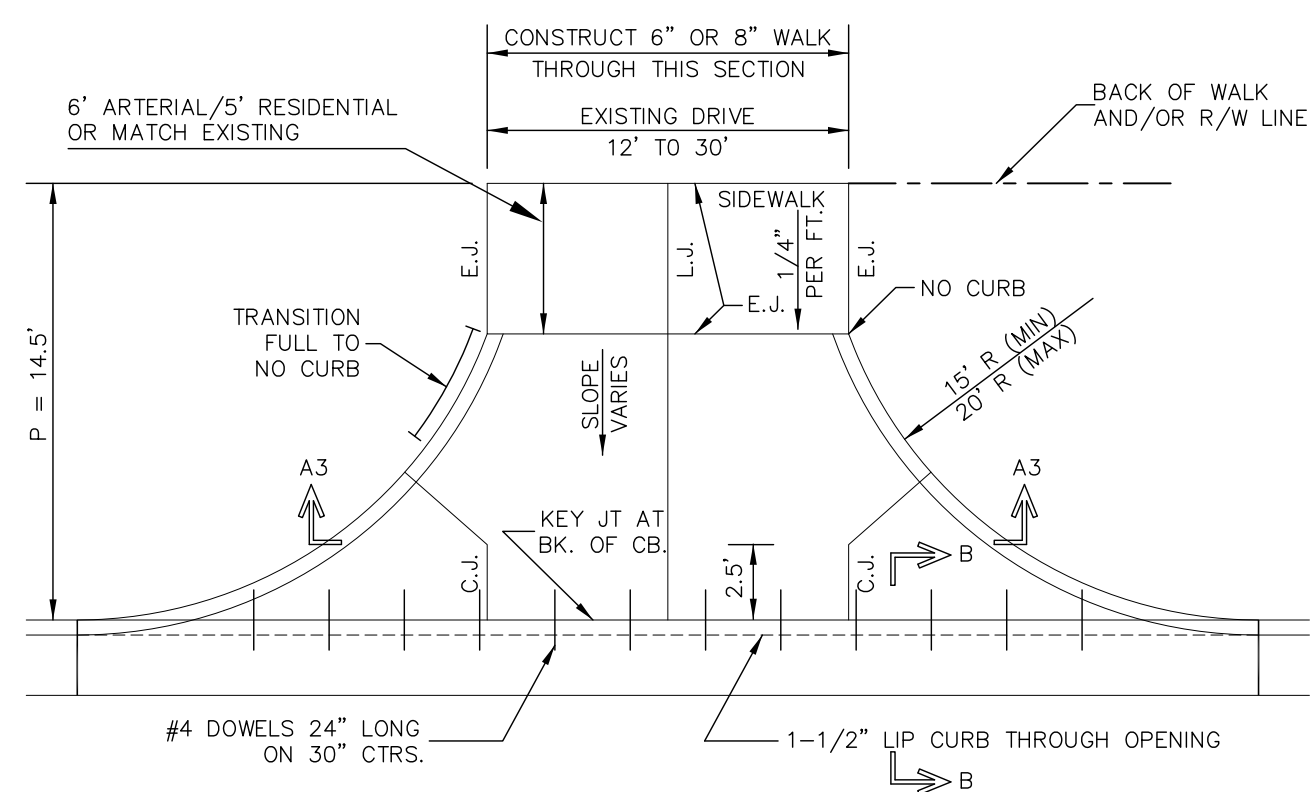
NOTE: HANOVER DETECTABLE WARNING PAVERS (OR AN APPROVED ALTERNATE) SHALL BE USED IN ALL WHEELCHAIR RAMPS. THE 11 3/4" RED 15' PAVES SHALL BE USED IN ALL APPLICATIONS.
HANOVER ARCHITECTURAL PRODUCTS
240 BENDER ROAD
HANOVER, PA 17331
1-717-637-0500
www.hanoverpavers.com



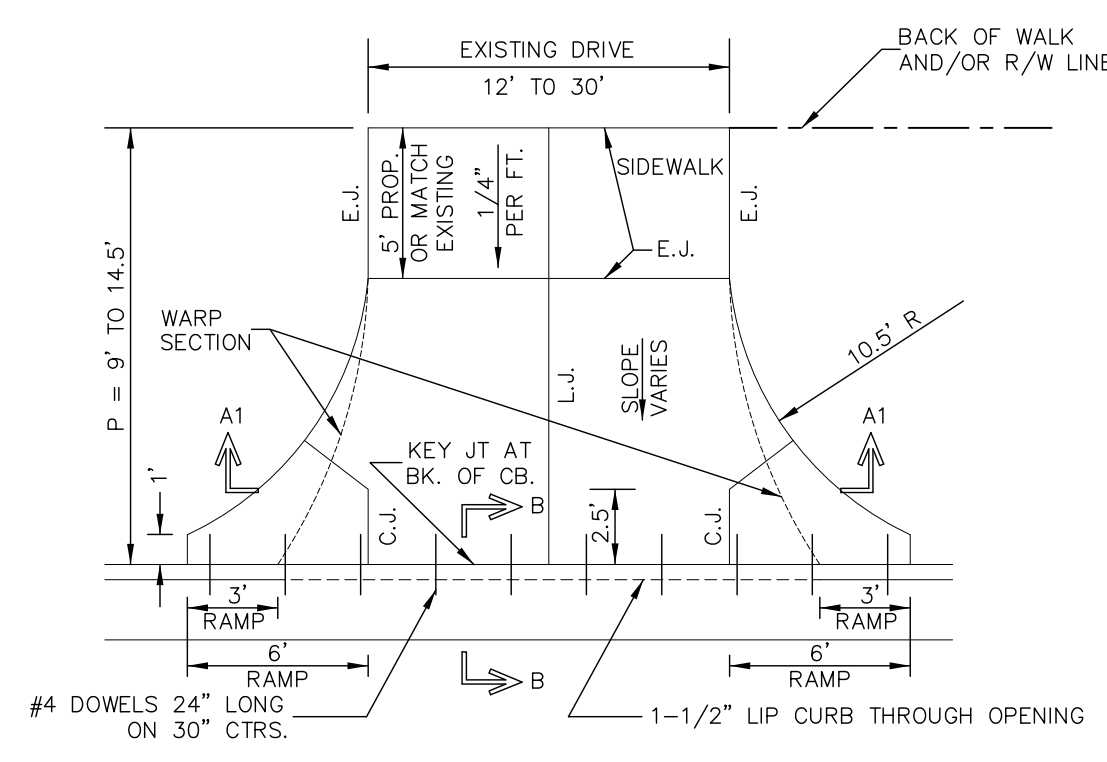
WHEELCHAIR RAMP DETAILS WITH DETECTABLE WARNING		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
		08/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 14 of 20



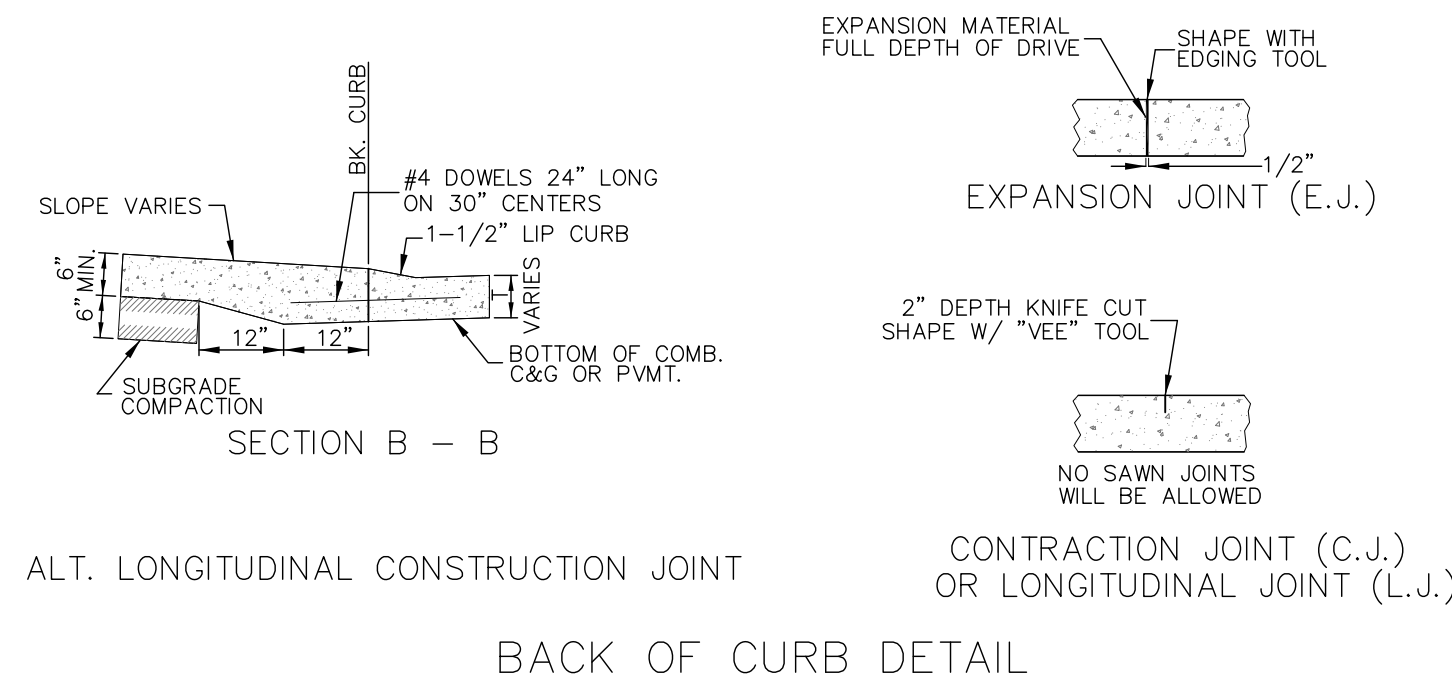
FULL RADIUS DRIVES (ARTERIAL/COLLECTOR DRIVEWAY)



FULL RAMP DRIVES (P = 4.0' & 6.5')



RADIUS RAMP DRIVES (RESIDENTIAL DRIVEWAY)



BACK OF CURB DETAIL

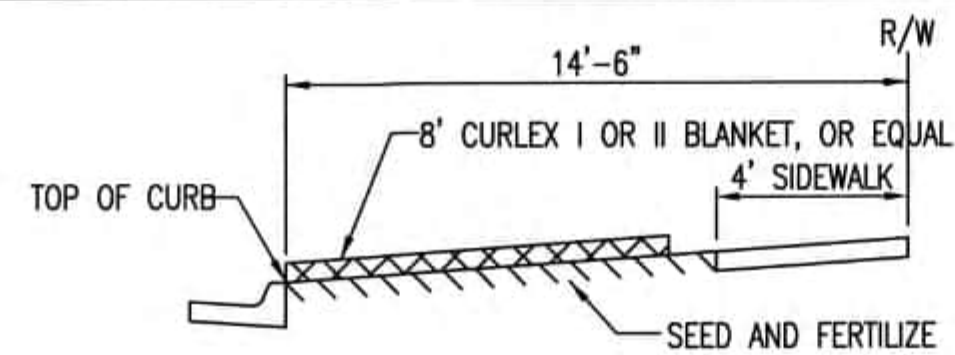
GENERAL NOTES

1. DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING. SEE OTHER DETAIL SHEETS FOR DRIVEWAY CONSTRUCTION WITH ROLL CURB AND/OR FULL WALK.
2. ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A WIDTH DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A WIDTH DIMENSION GREATER THAN 24'.
3. DRIVEWAY WIDTH DENOTED AS WIDTH ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 12' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
4. CONTRACTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6' AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
5. ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
6. ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
7. DRIVEWAYS ONLY ON RESIDENTIAL PROPERTIES ONLY CAN BE CONSTRUCTED WITH 6" IN THICKNESS AND CAN BE WITHOUT REINFORCEMENT.
8. ALL DRIVEWAYS TO NONRESIDENTIAL PROPERTY SHALL BE A MINIMUM OF 8" IN THICKNESS AND SHALL HAVE REINFORCEMENT WITH 6"x12", W4xW4.

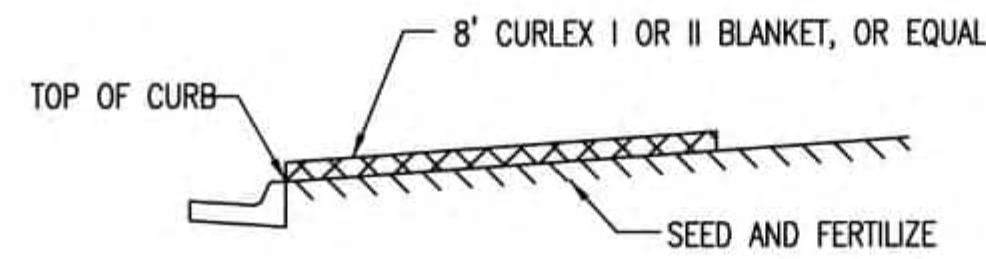
REVISED: NOVEMBER 2015



STANDARD DRIVE ENTRANCES FULL HEIGHT CURB		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 15 of 20

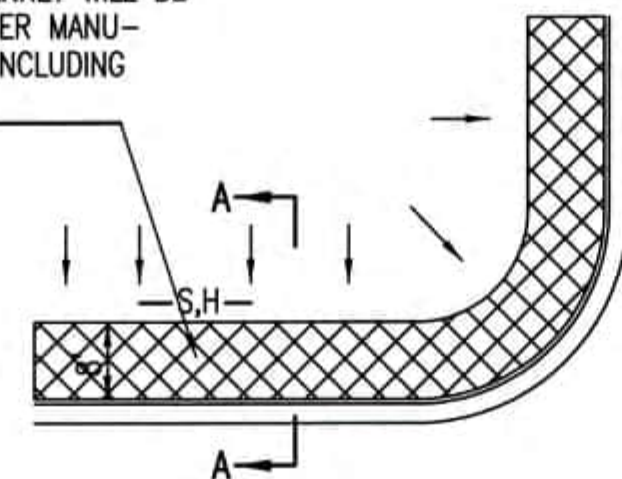


SECTION B-B

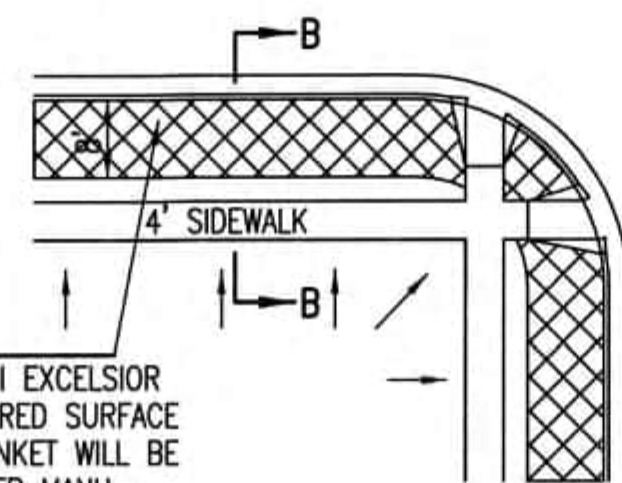


SECTION A-A

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

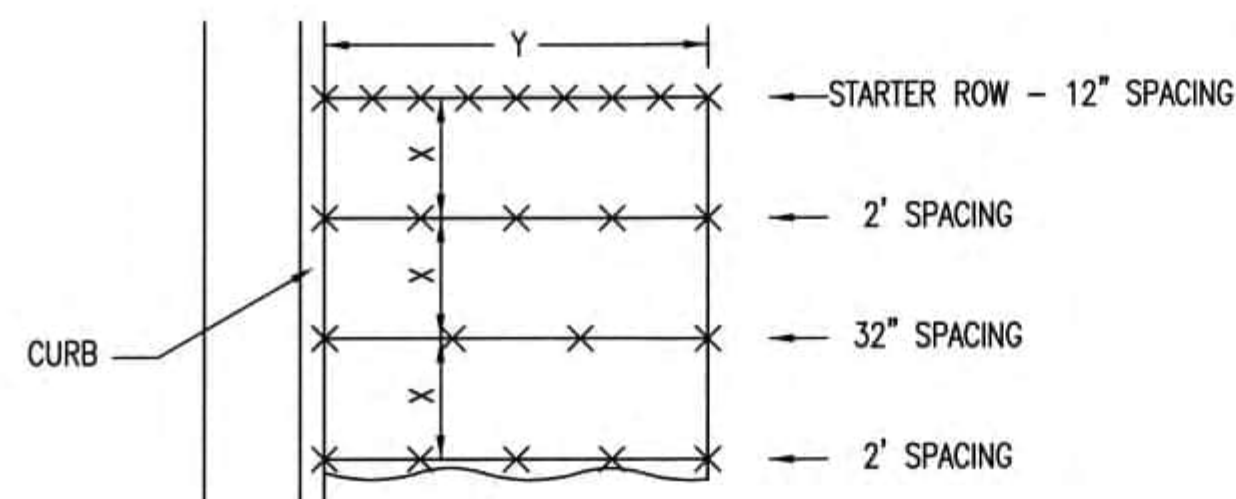


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

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.

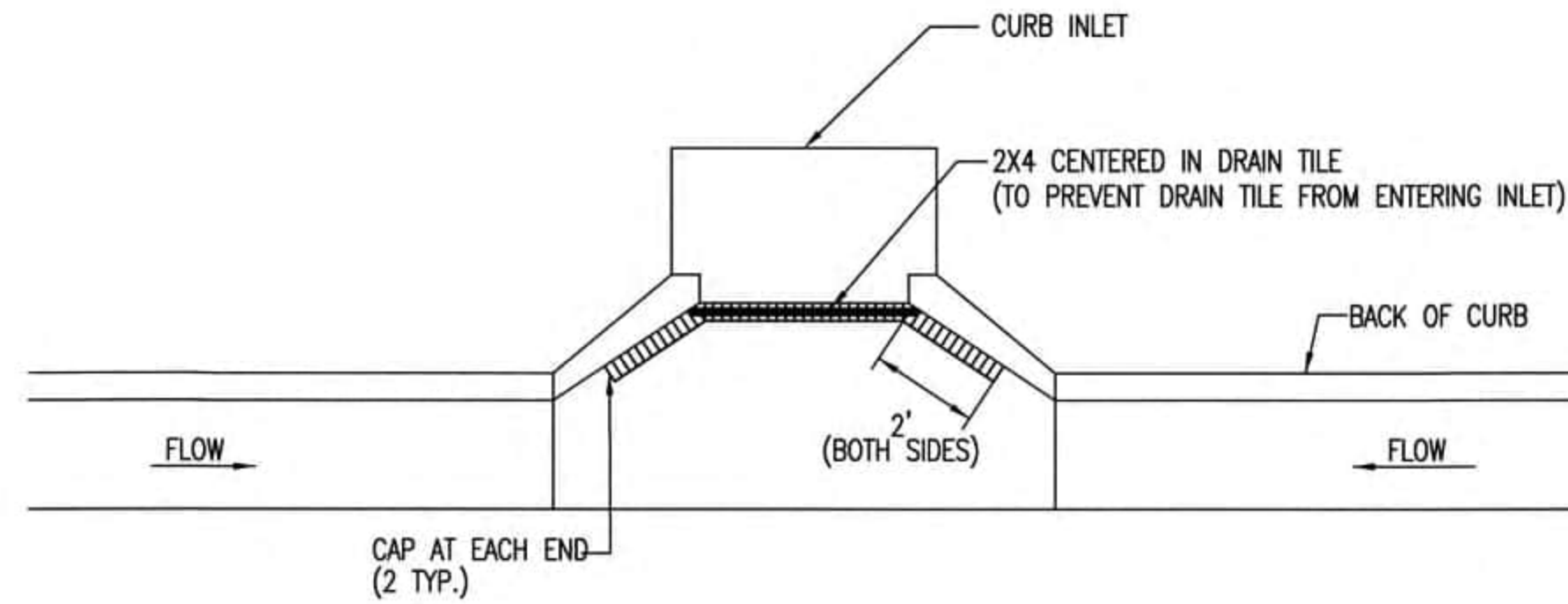
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

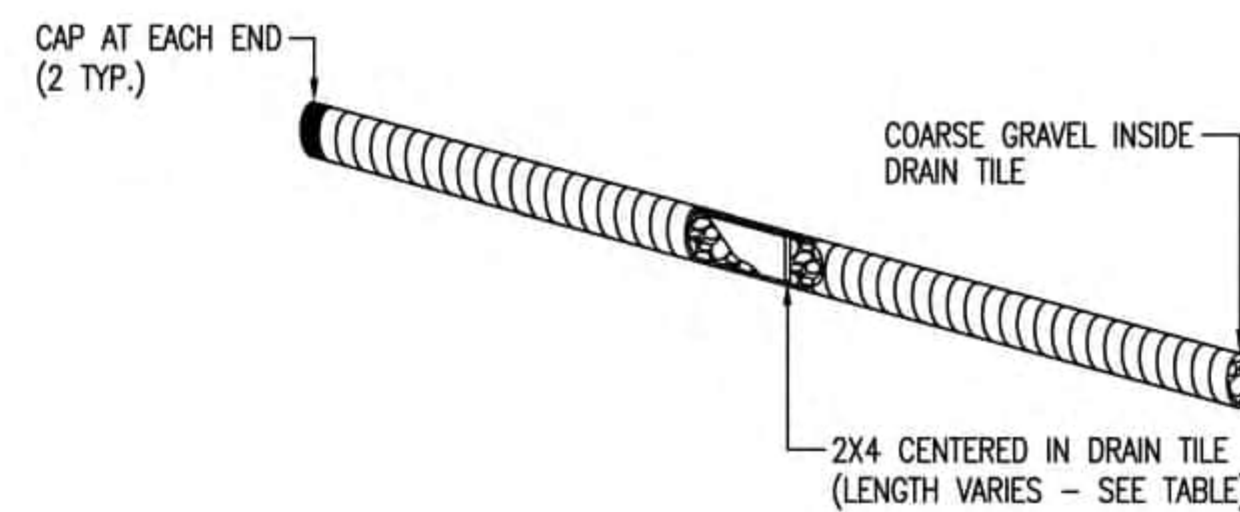
NOTES: USE 6\"/>

DETAILS FOR APPROVED EROSION CONTROL MAT



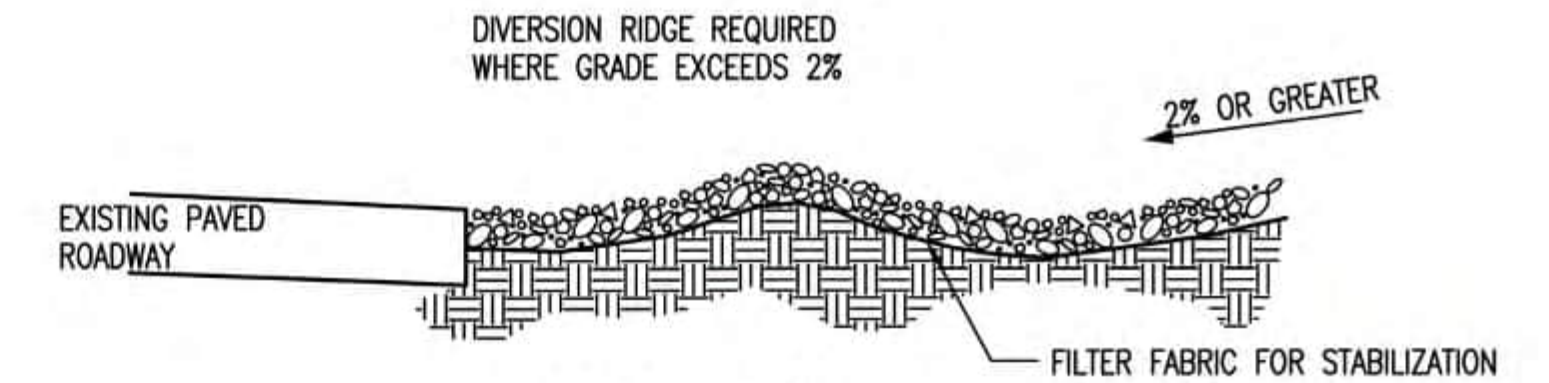
NOTE: PLACE 4\"/>

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

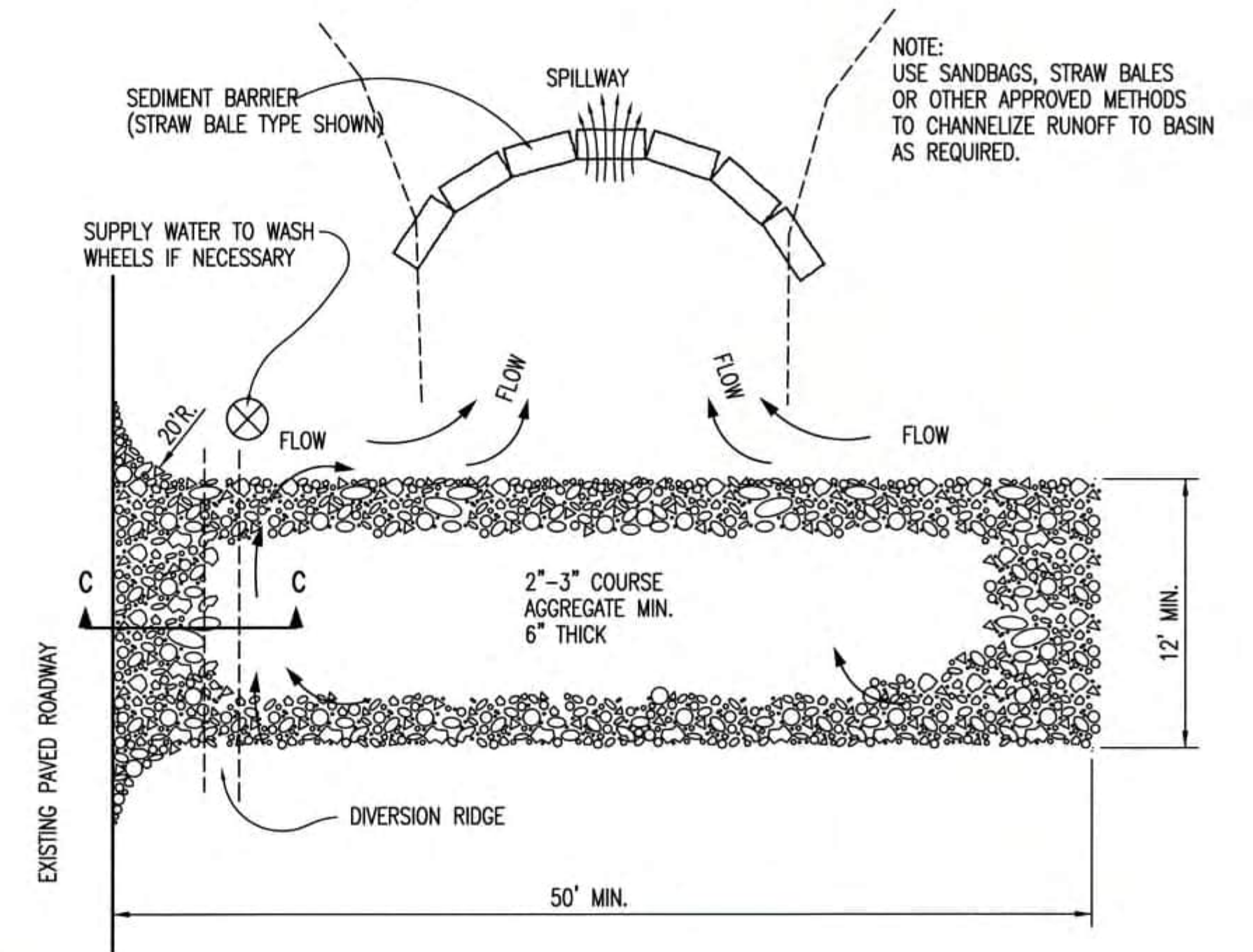


CURB INLET PROTECTION

4\"/>



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.

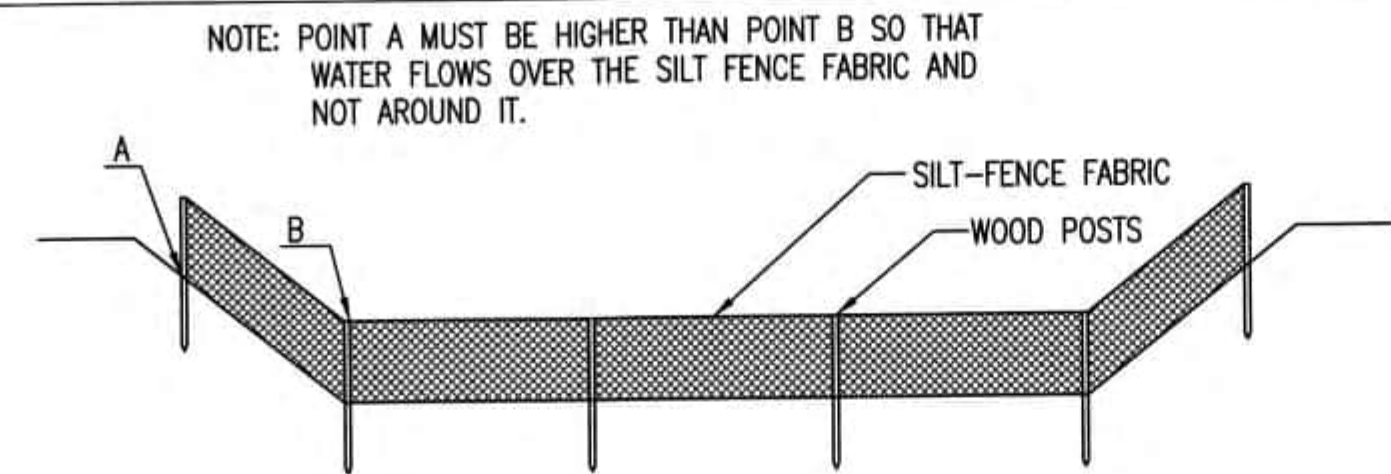
REVISION DATE: MAY 2013



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE 5/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 16 of 20



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 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 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 DOWNSLOPE 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.

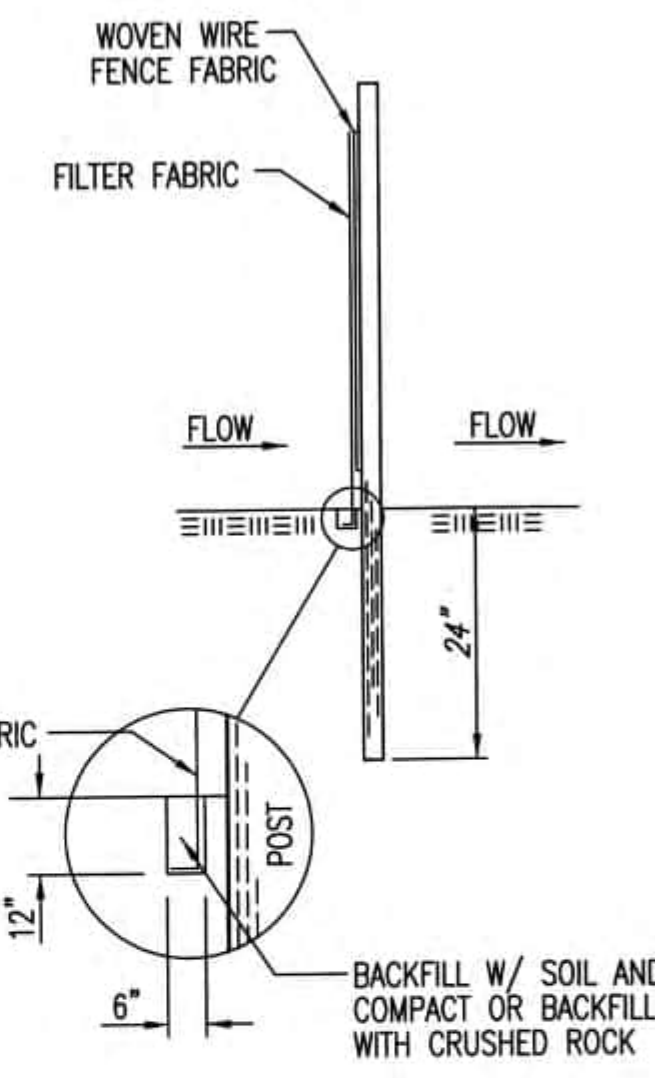
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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.

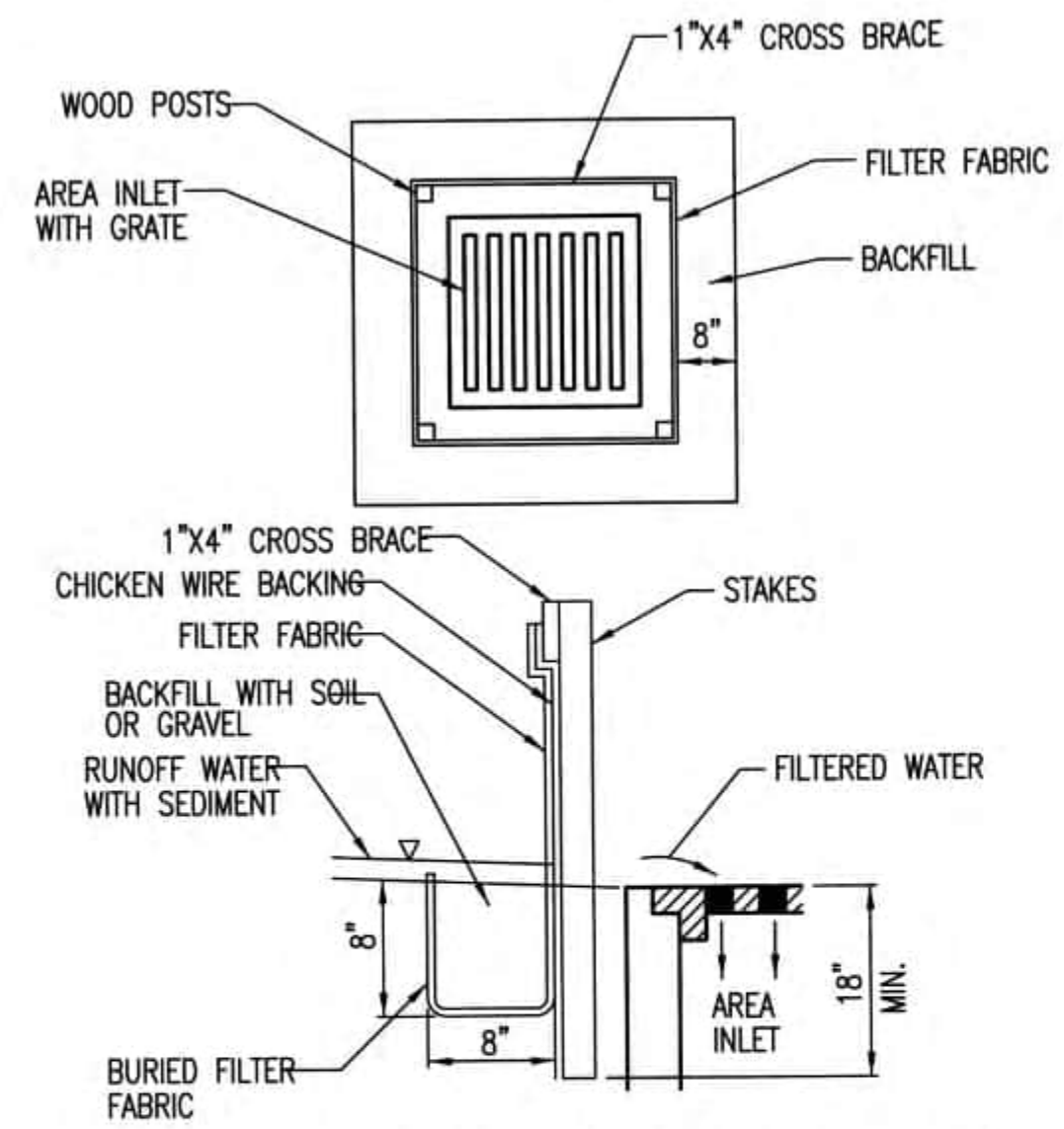
INSPECTION AND MAINTENANCE:

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.

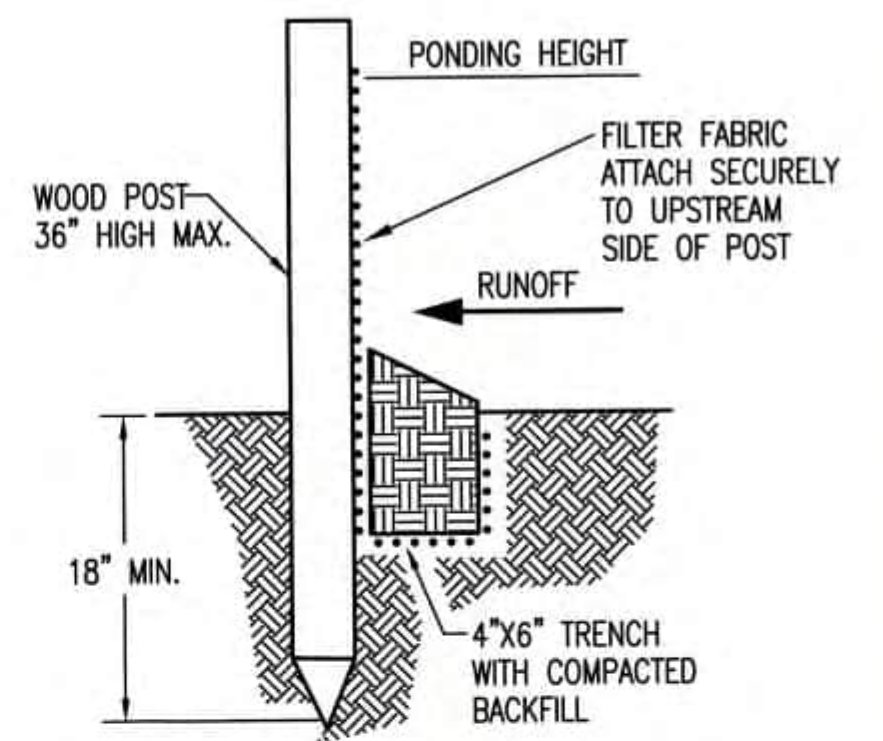
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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 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?
- 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 SLOPE BARRIER?

REVISION DATE: MAY 2013



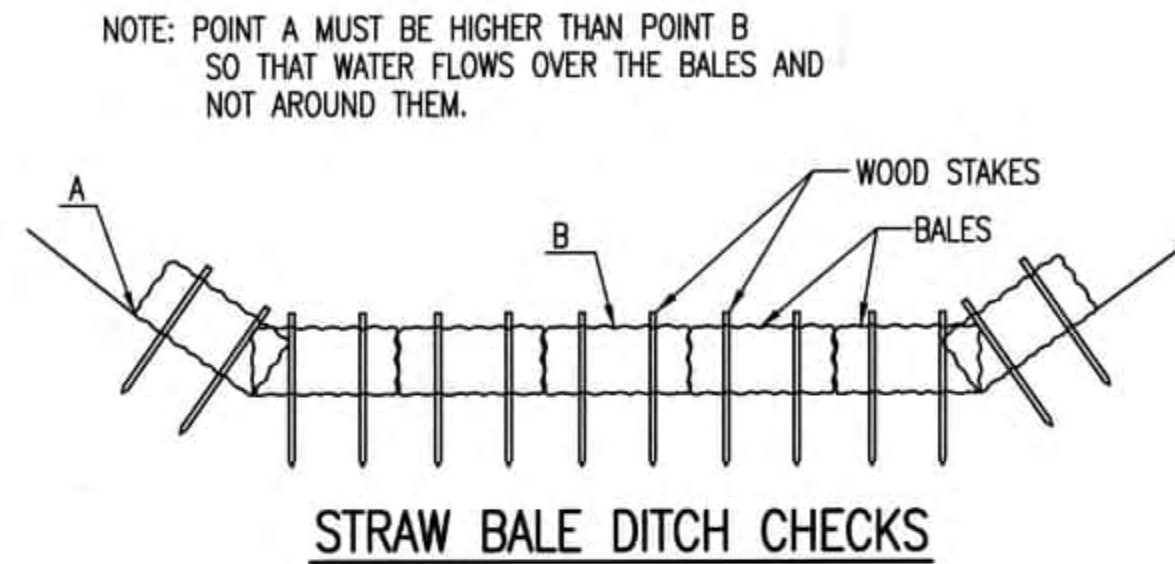
SILT FENCE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
		5/2013

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
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STRAW BALE DITCH CHECKS

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 CHECK SPACING	CHECK SPACING
DITCH GRADE (%)	(FEET)
0.5	200
1.0	200
2.0	100
3.0	85
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".

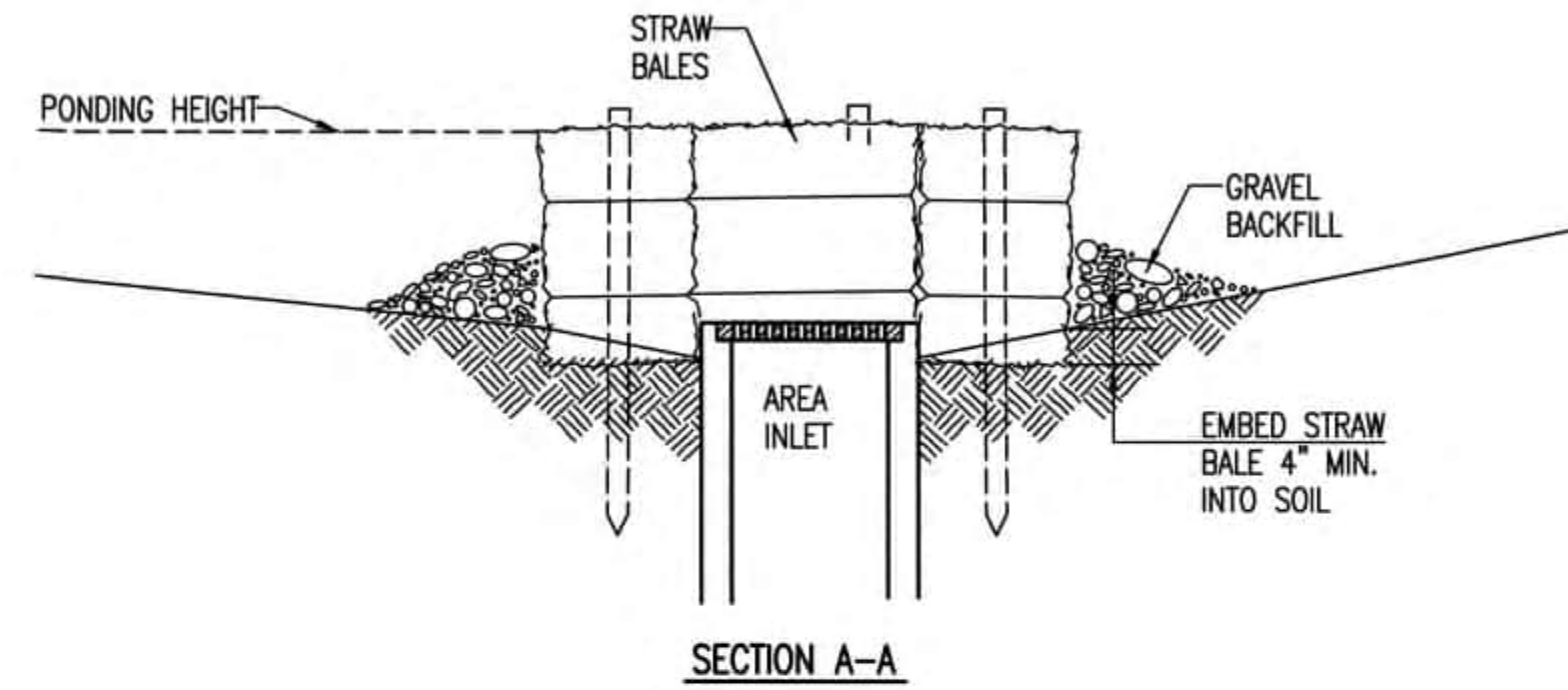
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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.

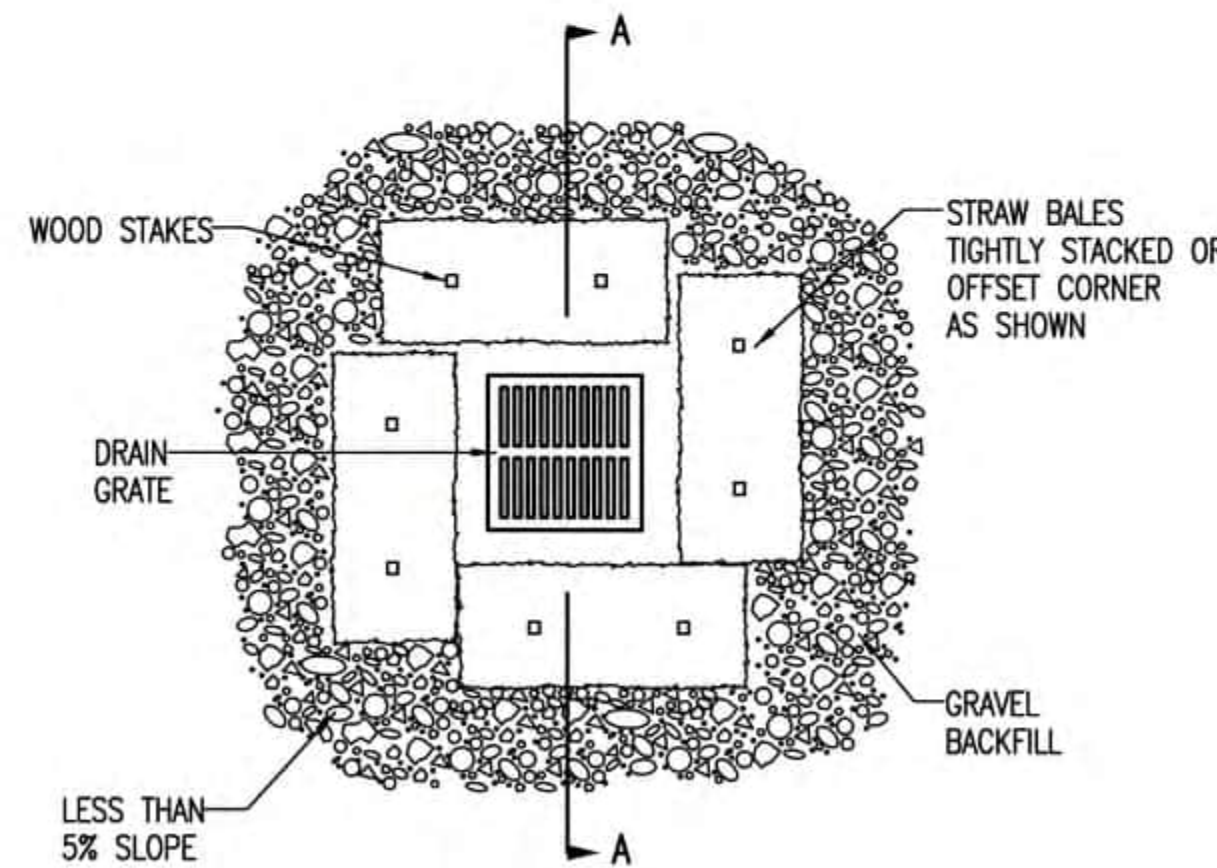
INSPECTION AND MAINTENANCE:

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?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS (INLET PROTECTION)

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.

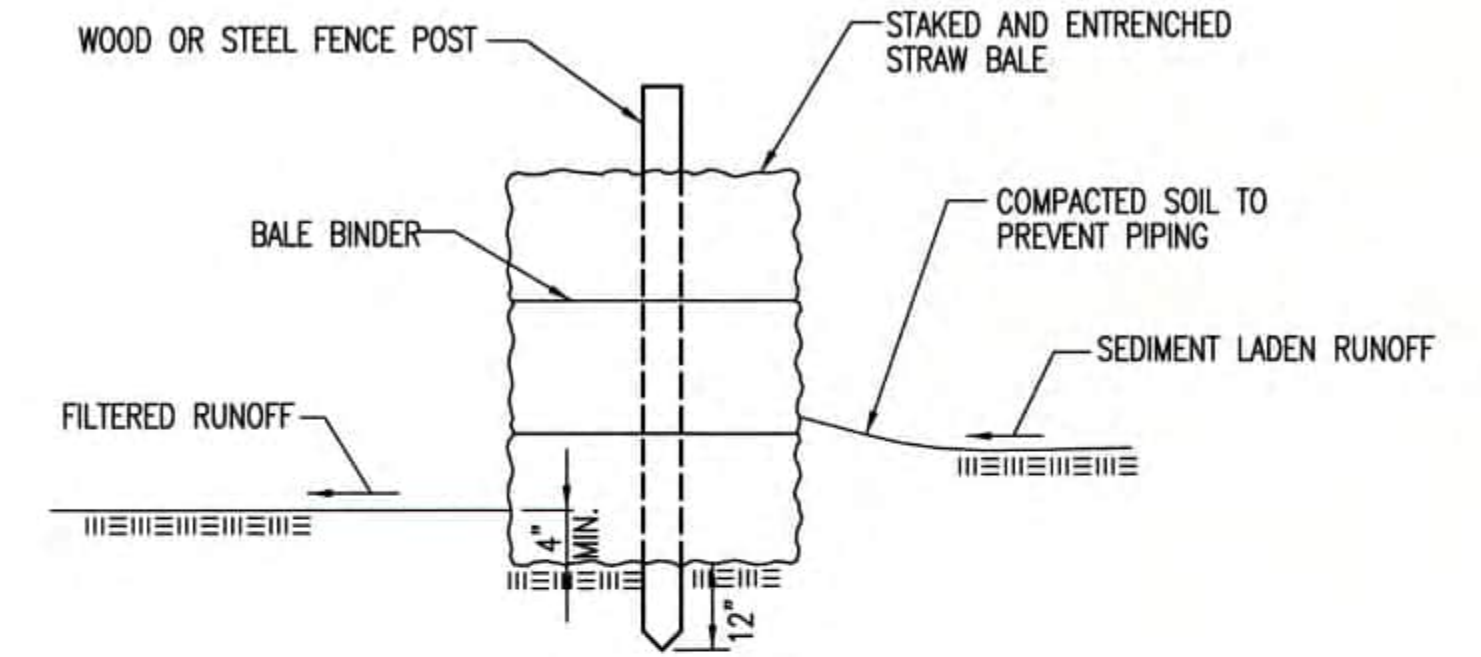
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

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?



STRAW BALE BARRIERS

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



STRAW BALE DITCH CHECK AND BARRIER DETAILS

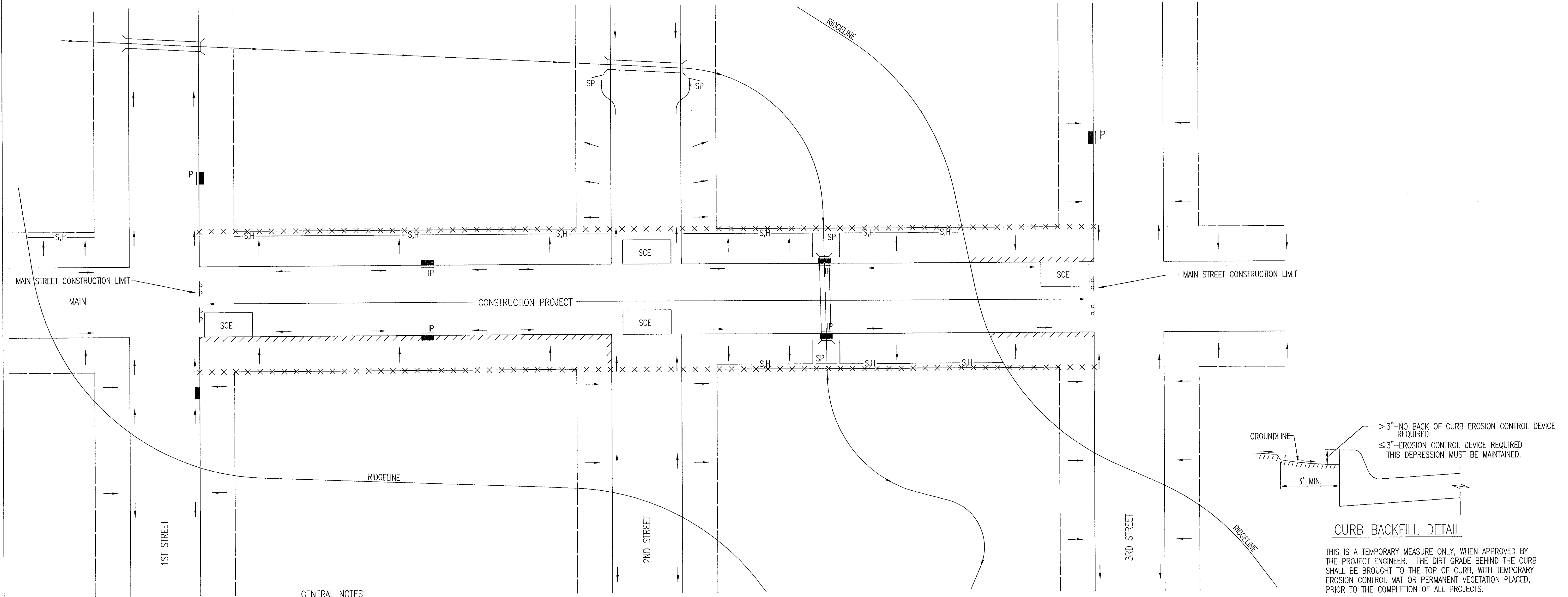
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: OCA NUMBER: DATE: 5/2013

CITY ENGINEER'S OFFICE: CITY HALL - SEVENTH FLOOR, 455 NORTH MAIN STREET, WICHITA, KANSAS 67202-1620, (316) 268-4501. SHEET: 18 of 20

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.

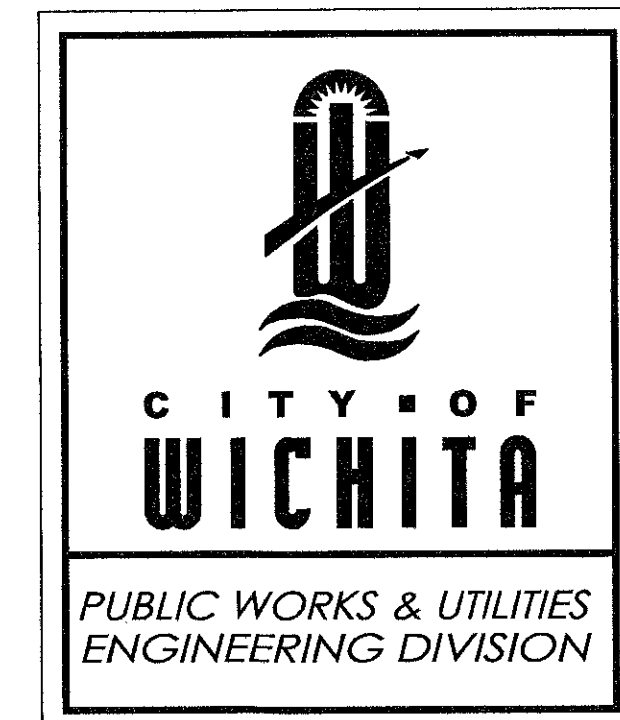
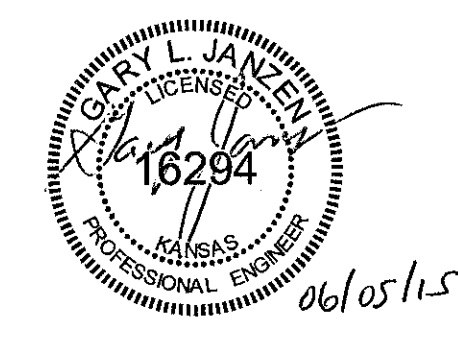


GENERAL NOTES

- 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)

LEGEND

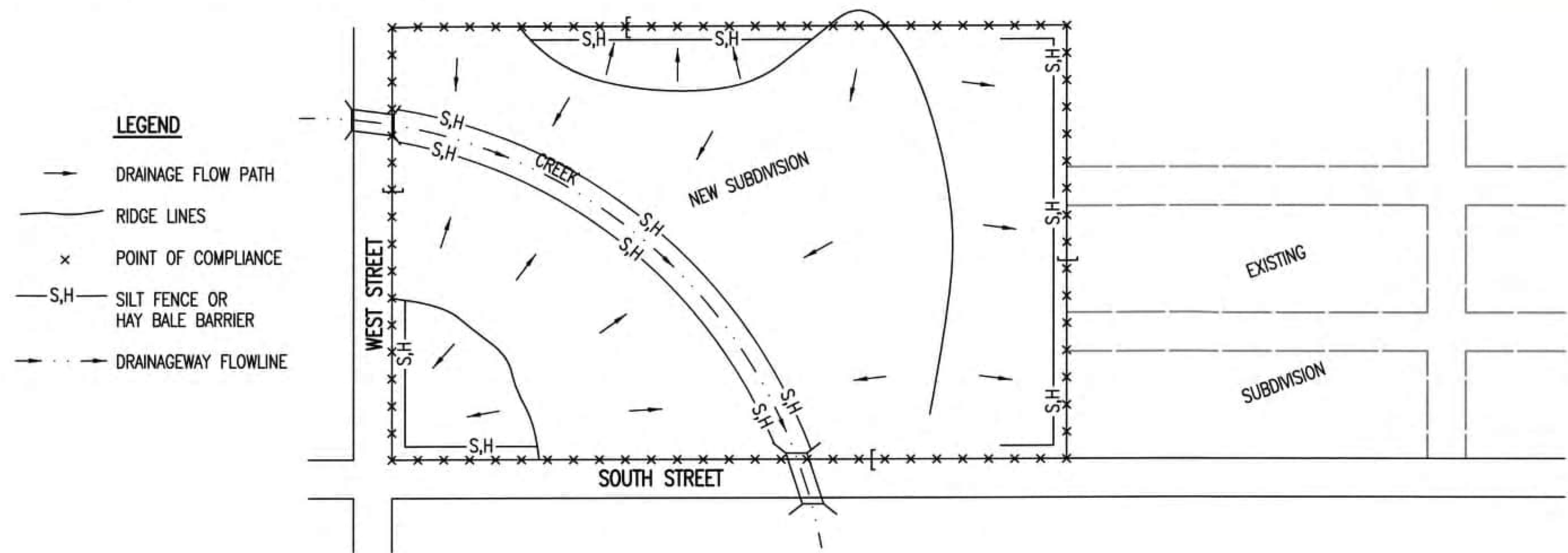
- R-O-W LIMITS
- DRAINAGE FLOW PATH
- × × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S,H— SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- //// BACK OF CURB PROTECTION



STREET IMPROVEMENT PROJECTS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE 11/2015
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 19 of 20

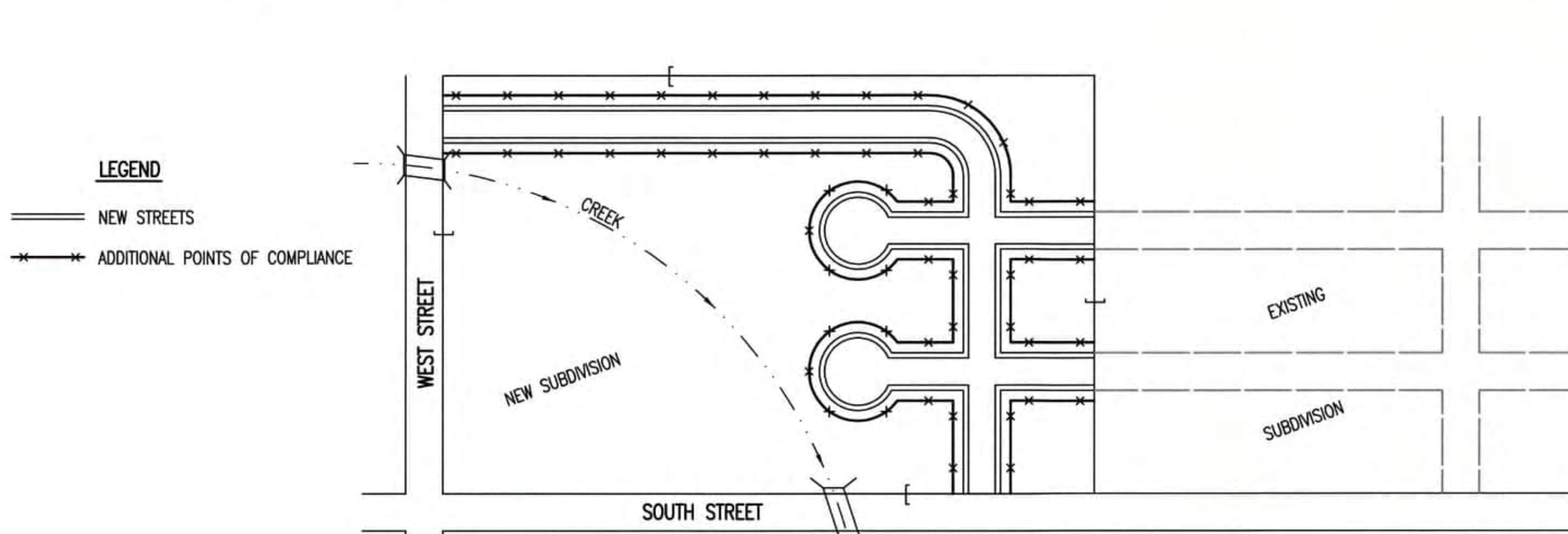
REVISION: JUNE 2015

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



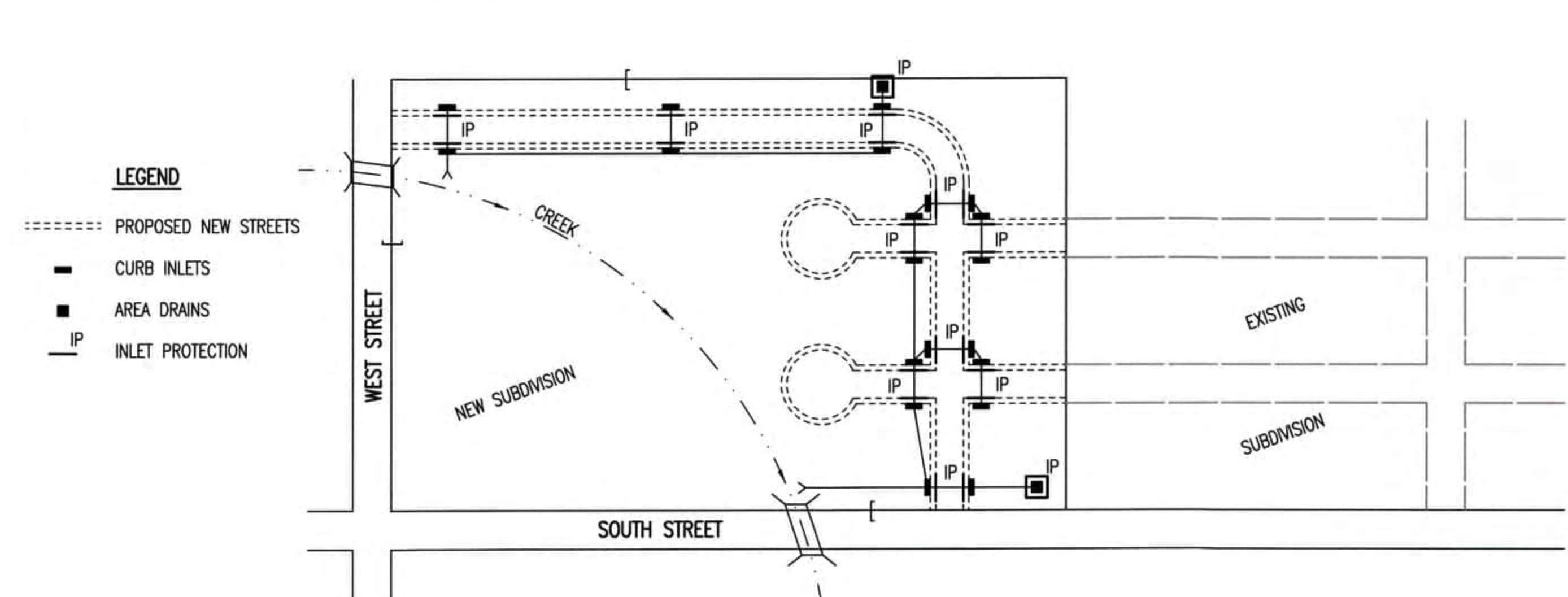
- LEGEND**
- DRAINAGE FLOW PATH
 - RIDGE LINES
 - × POINT OF COMPLIANCE
 - S,H SILT FENCE OR HAY BALE BARRIER
 - DRAINAGEWAY FLOWLINE
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
 2. 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.
 3. 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.
 4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
 5. 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.
 6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
 7. 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.
 8. 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
1. 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.
 2. 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.
 3. 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.
 4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
 5. 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.
 6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
 7. 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.

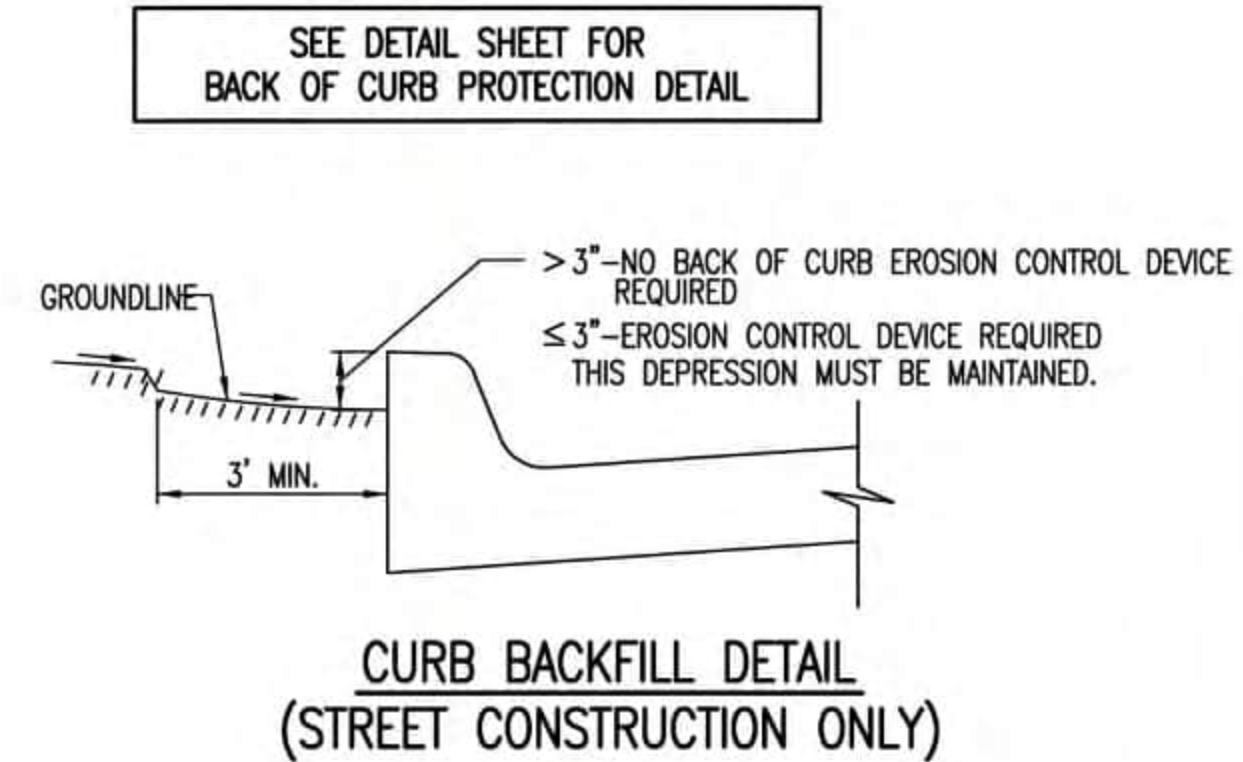
PHASE 2 – INSTALLATION OF STORM SEWER



- LEGEND**
- PROPOSED NEW STREETS
 - CURB INLETS
 - AREA DRAINS
 - IP INLET PROTECTION
1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
 2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
 3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
 4. 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.
 5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
 6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
 7. 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.
 8. 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

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. 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.
3. 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.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.



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
		5/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 20 of 20