

PRIVATE PAVING IMPROVEMENTS

TO SERVE

GLEN MEADOWS 2ND ADDITION

LOTS 1 THRU 22, BLOCK 1

CITY OF WICHITA, KANSAS

GARY JANZEN, P.E. - CITY ENGINEER

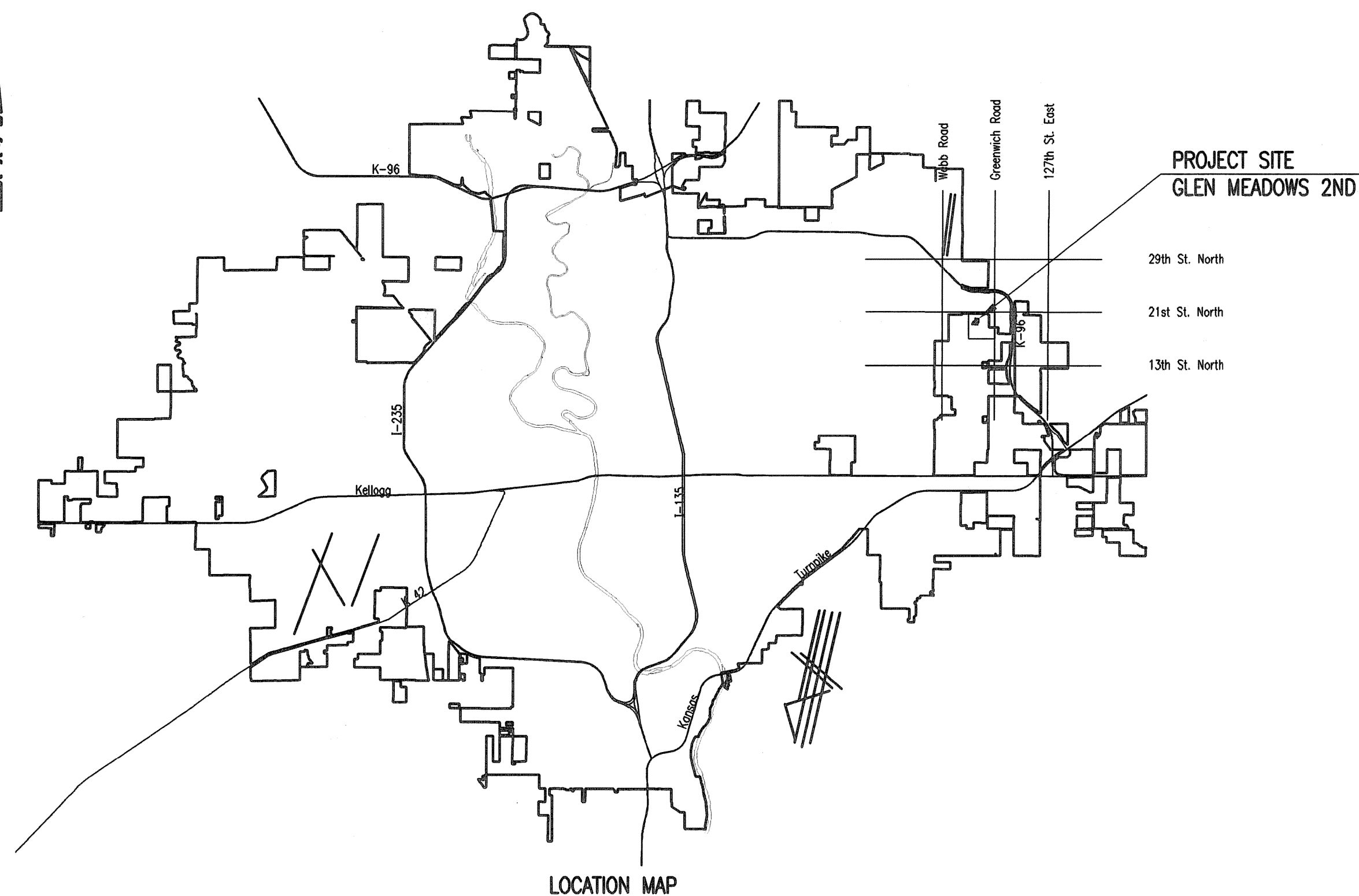
PRIVATE PROJECT NO. 231 PPP (607879)

DEVELOPER CONTACT

MR. DAVID HAMBRICK
SLAWSON COMPANIES
727 N. WACO, SUITE 400
WICHITA, KANSAS 67203
(316) 263-3201

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SUBDIVISION BENCH MARKS (SBM)				
NO.	STREET AND STATION	FROM @	DESCRIPTION	ELEVATION
1	VERANDA CIRCLE, STA. 10+74.68	2.50' LT.	SE P.C. CURB, SW CORNER OF BRICK PAVERS	
2	VERANDA CIRCLE, STA. 15+96.03	2.50' LT.	SOUTH P.C. CURB RETURN	
3	VERANDA CIRCLE, STA. 18+66.89	2.50' LT.	NW P.R.C. CURB RETURN	

THE COST OF THE BENCH MARK DISC, INCLUDING INSTALLATION, SHALL BE INCIDENTAL TO THE CURB.

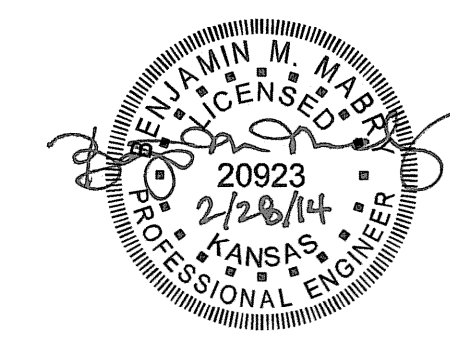
APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Engineering *Julianus Kallman 2-28-14*

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such Inspection, nor shall any work be commenced without written authorization by the City Engineer.

RECORD DRAWINGS
CONTRACTOR: Cornejo & Sons, LLC
INSPECTOR: None (Street to be Privately Maintained)
Date of Substantial Completion: 08/22/2014



MARCH 2014
PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

GENERAL NOTES

- ALL ELEVATIONS SHOWN ARE NAVD88 DATUM. (AT THIS LOCATION, NAVD88 - 0.49' = NAD83 DATUM).
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
- ALL CONSTRUCTION WORK AND MATERIAL IN THIS PROJECT SHALL COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF CITY PROJECTS UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.
- UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, 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 WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW.
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 ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT THEY WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION WORK. CONTACT THE KANSAS-ONE-CALL SYSTEM AT 811 OR 687-2470 AT LEAST 72 HOURS IN ADVANCE TO REQUEST FIELD LOCATES. FOR UTILITIES THAT ARE NOT MEMBERS OF THE KANSAS-ONE-CALL SYSTEM, CONTACT THOSE COMPANIES DIRECTLY.
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
COX COMMUNICATIONS 800-778-9140
KANSAS GAS SERVICE 888-482-4950
WESTAR ENERGY 900-383-1183
AT&T 800-286-8313
CITY OF WICHITA WATER DEPARTMENT 262-6000
CITY OF WICHITA SEWER MAINTENANCE 262-6000
- THE LUMP SUM BID ITEM "SITE CLEARING" SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF MINOR OBSTRUCTIONS, REMOVAL AND SALVAGE OF CONFLICTING PRIVATE IMPROVEMENTS WITHIN THE PROJECT AREA, REMOVAL OF CONSTRUCTION DEBRIS, REMOVAL OF TREES WITHIN CONSTRUCTION LIMITS, AND GENERAL CLEAN-UP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY THE CONTRACTOR CONSTRUCTION OPERATIONS, OR WHICH ARE COVERED BY 12" OR MORE OF FILL MATERIAL BY THIS PROJECT. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS AND AT NO ADDITIONAL COST TO THE CITY.
- THE CONTRACTOR SHALL APPLY TEMPORARY SEED AND MULCH TO ALL UNPAVED AREAS DISTURBED BY HIS CONSTRUCTION OPERATIONS WITHIN 14 DAYS AFTER SUCH OPERATIONS CEASE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. SEED SHALL BE ANNUAL RYE APPLIED AT THE RATE OF 4 LBS. PER 1,000 SQUARE FEET. MULCH SHALL BE PRAIRIE HAY APPLIED AT THE RATE OF 15 BALES PER ACRE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID FOR "TEMPORARY SEEDING".
- EROSION CONTROL (BMP'S)
THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.
- THE CONTRACTOR SHALL REMOVE AND RESET EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION. SIGNS DAMAGED THRU NEGLIGENCE OF THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- CONTRACTOR SHALL SUPPLY, INSTALL, AND MAINTAIN CONSTRUCTION TRAFFIC CONTROL AS NECESSARY TO PROTECT THE TRAVELING PUBLIC. ALL TRAFFIC CONTROL DEVICES, AND THE INSTALLATION AND USE THEREOF, SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL DEVICES SHALL BE REFLECTORIZED. CONSTRUCTION TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER BID ITEMS OF WORK.
- WATER FOR EARTHWORK SHALL BE CONSIDERED SUBSIDIARY TO "PROJECT".
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
- INLET HOOKUPS SHALL BE BID PER EACH REGARDLESS OF INLET SIZE.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING IN THE VICINITY OF EXISTING IRRIGATION AND LANDSCAPING ITEMS. ANY REMOVAL, RELOCATION AND/OR REPLACEMENT OF LANDSCAPING ITEMS, SPRINKLER HEADS, IRRIGATION SYSTEMS OR OTHER PRIVATE IMPROVEMENTS THAT ARE IN DIRECT CONFLICT WITH CONSTRUCTION SHALL BE COORDINATED WITH THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROPERTY OWNER OF ANY SUCH WORK, AND FOR REPAIRING ANY DAMAGE TO THE EXISTING PRIVATE IMPROVEMENTS RESULTING FROM CONSTRUCTION OF THE PROJECT. THE MATERIAL COST, LABOR COST AND ALL INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "SITE CLEARING".
- THE LUMP SUM BID ITEM "ELECTRICAL" SHALL INCLUDE ALL WORK TO BE PERFORMED BY THE CONTRACTOR(S) AS OUTLINED IN THE ELECTRICAL PLAN SHEETS.

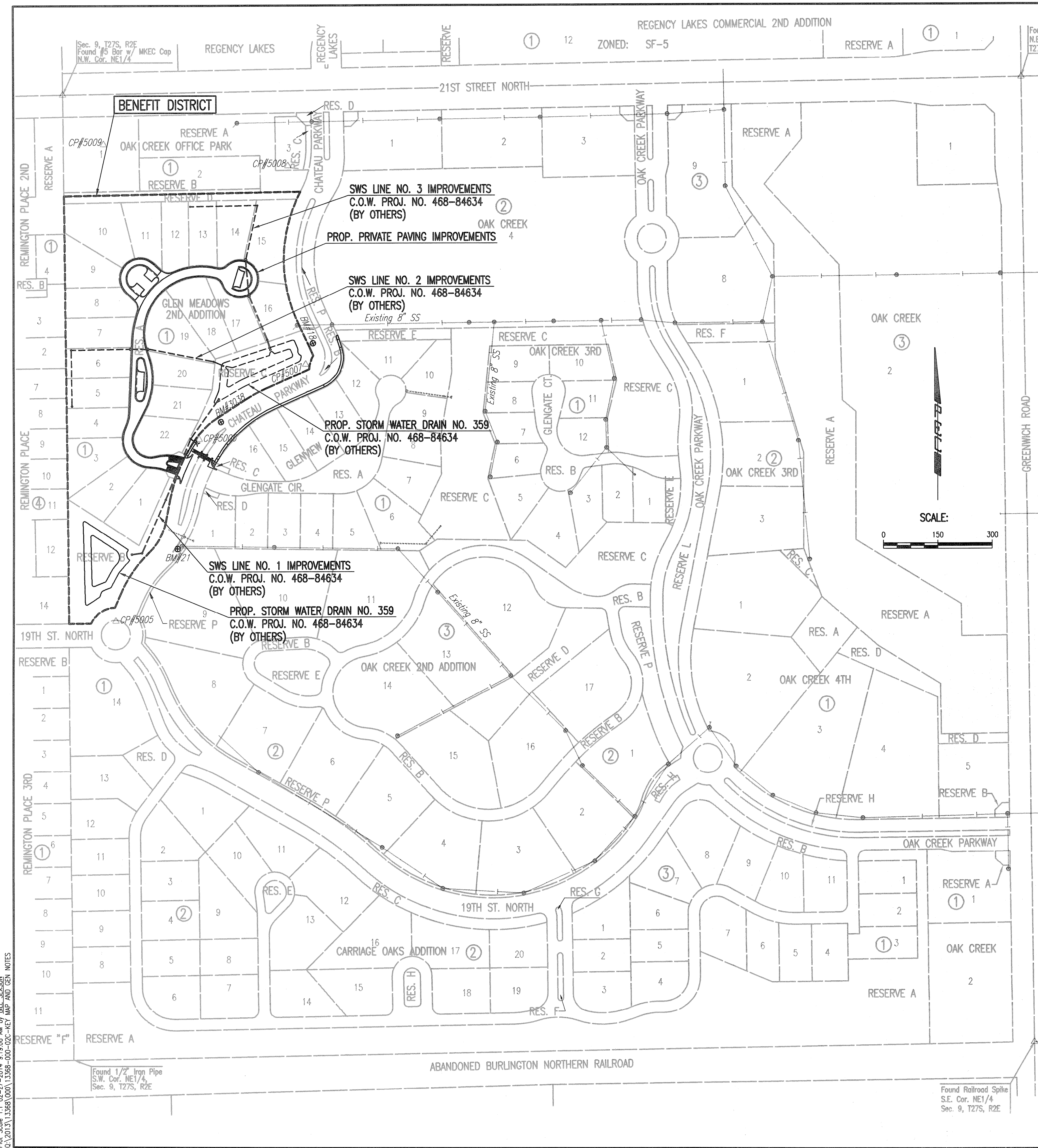
CONTROL POINTS

- Pt. No. 5005**
N-385,805.895978, E-2,371,579.631082
PK NAIL AT 19TH AND CHATEAU PARKWAY
- 3.00' N TO BACK OF NORTH EDGE OF ROLL CURB ON NORTH SIDE OF ROUNDABOUT AT 19TH AND CHATEAU PARKWAY
 - 5.50' S TO EDGE OF CONCRETE
 - 1.50' W TO CURB JOINT NORTH AND SOUTH
- Pt. No. 5006**
N-386,306.326915, E-2,371,810.511367
NO. 4 REBAR
- 4.00' W TO EAST EDGE OF WEST SIDEWALK
 - 5.20' E TO BACK OF WEST CURB CHATEAU PARKWAY
 - 75.00' S TO @ OF GLENGATE CIRCLE TO THE EAST
- Pt. No. 5007**
N-386,514.205262, E-2,372,104.718538
NO. 4 REBAR WITH I.D. CAP "ALPHA CONTROL"
- 37.4' N TO NE CORNER OF SE END OF HEADWALL
 - 61.2' NE TO CENTER OF CHISELED SQUARE ON CURB INLET
 - 26.8' E TO BACK OF WEST CURB
 - 38.5' S TO CENTER OF MH ON CURB INLET AT 90° TURN IN CHATEAU PARKWAY WEST OF SOUTH NOSE OF MEDIAN CURB ISLAND
- Pt. No. 5008**
N-387,057.908782, E-2,372,056.038731
NO. 4 REBAR IN OAK CREEK OFFICE PARK
- 12.0' S TO NORTH BACK OF CURB FOR PARKING STALLS IN-LINE WITH PARKING STALL STRIPE BETWEEN 3 STALLS WEST AND 3 STALLS EAST
 - NORTH OF EASTERN MOST PARKING STALLS
 - 68.0' SSW TO NE CORNER OF ELECTRIC PANEL BOX
- Pt. No. 5009**
N-387,116.064133, E-2,371,546.185265
NO 4 REBAR IN GRASS BUILDING PAD
- 94.5' N TO SOUTH CURB OF 21ST STREET NORTH
 - 106.0' ESE TO CENTER OF MH ON WEST SIDE OF PARKING LOT, IN GRASS, FOR OAK CREEK OFFICE PARK

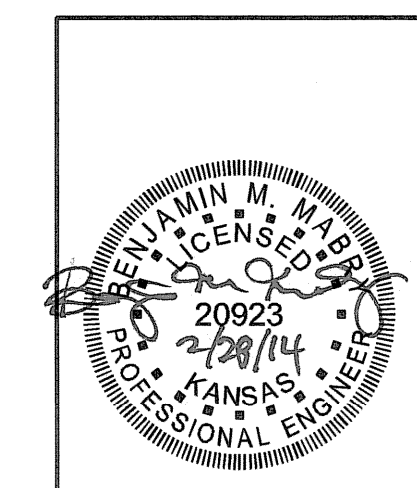
BENCHMARK LIST

- BM #18** - CHISELED SQUARE ON CENTER FACE OF CURB INLET ON WEST SIDE OF CHATEAU PARKWAY, 600' SOUTH OF 21ST STREET NORTH NEAR NORTHWEST CORNER GLENVIEW ADDITION.
ELEV. = 1379.13 NAVD88
- BM #3038** - BRASS DISC ON TOP OF WEST CURB OF CHATEAU PARKWAY, 165 FEET NORTH OF GLENVIEW CIRCLE.
ELEV. = 1384.60 NAVD88
- BM #21** - CHISELED SQUARE ON WEST SIDE OF CONCRETE BASE FOR LIGHT POLE ON EAST SIDE OF CHATEAU PARKWAY NEAR SOUTHWEST CORNER OF GLENVIEW ADDITION, 1200± SOUTH OF 21ST STREET NORTH.
ELEV. = 1390.30 NAVD88

NOTE:
CONTRACTOR SHALL NOT REMOVE ANY TREES FROM THE PROJECT SITE WITHOUT SPECIFIC APPROVAL OF THE OWNER AND/OR ENGINEER.

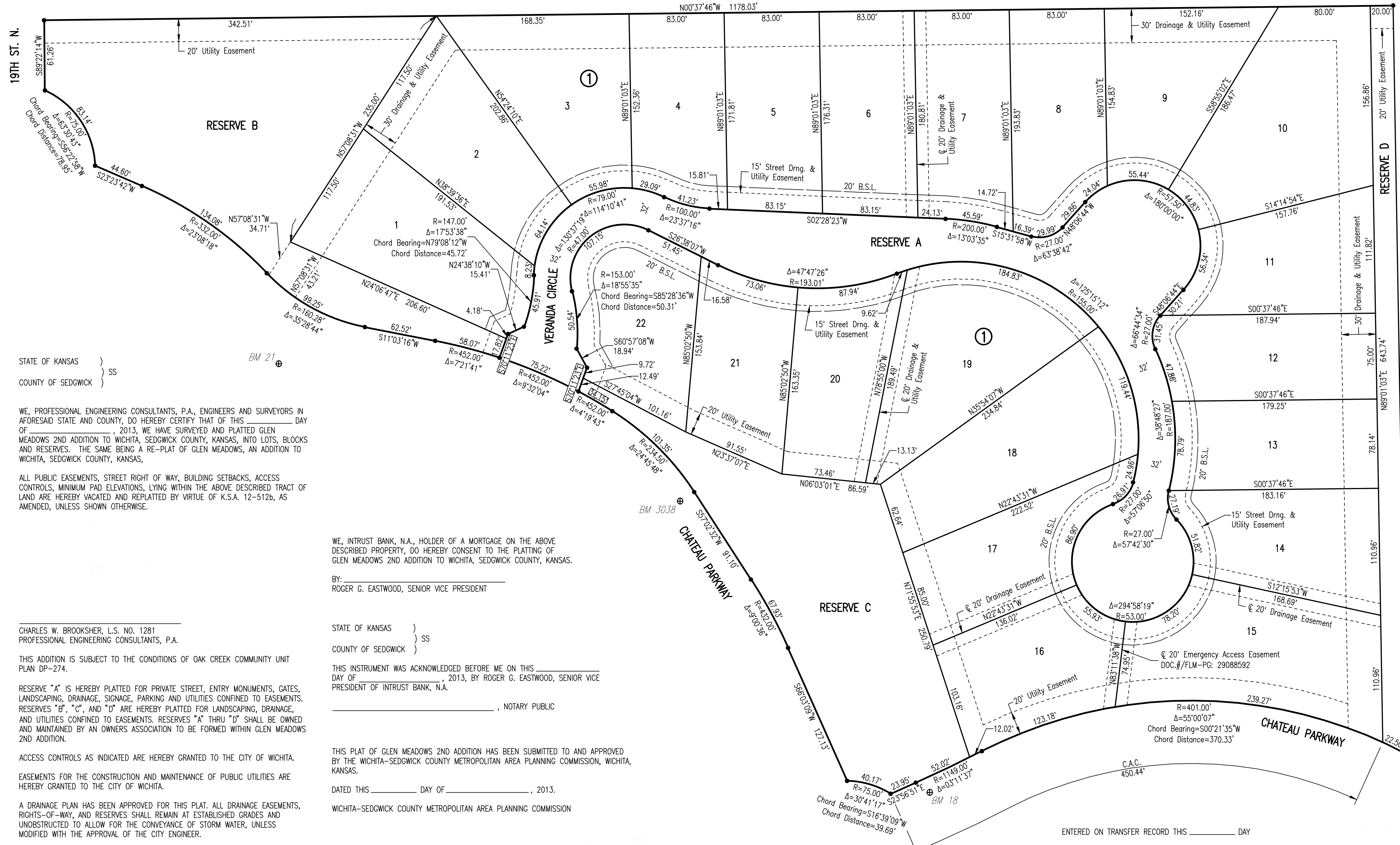


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 01/20/13 13368-000-002-KEY AND GEN NOTES



No.	Revision	By	Date
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS		
KEY MAP AND GENERAL NOTES			
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2891 www.pec1.com			
Designed by	BMM	Job No.	35-13368-000
Drawn by	BJS	Date	September 2013
			Sht. 02 of 20

GLEN MEADOWS 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1" = 50'

- = 1/2" REBAR W/PEC CAP UNLESS OTHERWISE NOTED
- ⊕ = BENCHMARK

- BENCHMARKS**
- BM #18
CHISELED SQUARE ON CENTER FACE OF CURB INLET ON WEST SIDE OF CHATEAU PARKWAY, 600' SOUTH OF 21ST STREET NORTH NEAR NORTHWEST CORNER GLENVIEW ADDITION. ELEV. = 1379.13 NAVD88
- BM #3038
BRASS DISC ON TOP OF WEST CURB OF CHATEAU PARKWAY, 165 FEET NORTH OF GLENVIEW CIRCLE. ELEV. = 1384.60 NAVD88
- BM #21
CHISELED SQUARE ON WEST SIDE OF CONCRETE BASE FOR LIGHT POLE ON EAST SIDE OF CHATEAU PARKWAY NEAR SOUTHWEST CORNER OF GLENVIEW ADDITION, 1200± SOUTH OF 21ST STREET NORTH. ELEV. = 1390.30 NAVD88

MINIMUM OPENINGS	ELEVATION (NAVD88)
BLOCK 1	
LOTS 1, 22	1392.00
LOTS 2-3	1393.00
LOTS 4-6	1392.50
LOTS 7-8	1391.50
LOTS 9	1389.00
LOTS 11-12	1382.50
LOT 13	1381.50
LOT 14	1385.00
LOT 15	1384.00
LOTS 16-17	1383.00
LOT 18-20	1382.00
LOT 21	1386.50

STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

WE, PROFESSIONAL ENGINEERING CONSULTANTS, P.A., ENGINEERS AND SURVEYORS IN AFORESAID STATE AND COUNTY, DO HEREBY CERTIFY THAT OF THIS _____ DAY OF _____, 2013, WE HAVE SURVEYED AND PLATTED GLEN MEADOWS 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS, INTO LOTS, BLOCKS AND RESERVES. THE SAME BEING A RE-PLAT OF GLEN MEADOWS, AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

ALL PUBLIC EASEMENTS, STREET RIGHT OF WAY, BUILDING SETBACKS, ACCESS CONTROLS, MINIMUM PAD ELEVATIONS, LYING WITHIN THE ABOVE DESCRIBED TRACT OF LAND ARE HEREBY VACATED AND REPLATTED BY VIRTUE OF K.S.A. 12-5126, AS AMENDED, UNLESS SHOWN OTHERWISE.

WE, INTRUST BANK, N.A., HOLDER OF A MORTGAGE ON THE ABOVE DESCRIBED PROPERTY, DO HEREBY CONSENT TO THE PLATTING OF GLEN MEADOWS 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

BY: _____
ROGER G. EASTWOOD, SENIOR VICE PRESIDENT

CHARLES W. BROOKSHER, L.S. NO. 1281
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

THIS ADDITION IS SUBJECT TO THE CONDITIONS OF OAK CREEK COMMUNITY UNIT PLAN DP-274.

RESERVE "A" IS HEREBY PLATTED FOR PRIVATE STREET, ENTRY MONUMENTS, GATES, LANDSCAPING, DRAINAGE, SIGNAGE, PARKING AND UTILITIES CONFINED TO EASEMENTS. RESERVES "B", "C", AND "D" ARE HEREBY PLATTED FOR LANDSCAPING, DRAINAGE, AND UTILITIES CONFINED TO EASEMENTS. RESERVES "A" THRU "D" SHALL BE OWNED AND MAINTAINED BY AN OWNERS ASSOCIATION TO BE FORMED WITHIN GLEN MEADOWS 2ND ADDITION.

ACCESS CONTROLS AS INDICATED ARE HEREBY GRANTED TO THE CITY OF WICHITA. EASEMENTS FOR THE CONSTRUCTION AND MAINTENANCE OF PUBLIC UTILITIES ARE HEREBY GRANTED TO THE CITY OF WICHITA.

A DRAINAGE PLAN HAS BEEN APPROVED FOR THIS PLAT. ALL DRAINAGE EASEMENTS, RIGHTS-OF-WAY, AND RESERVES SHALL REMAIN AT ESTABLISHED GRADES AND UNOBSTRUCTED TO ALLOW FOR THE CONVEYANCE OF STORM WATER, UNLESS MODIFIED WITH THE APPROVAL OF THE CITY ENGINEER.

KNOW ALL MEN BY THESE PRESENTS THAT WE, THE UNDERSIGNED PROPERTY OWNERS OF THE LAND AS ABOVE SET FORTH IN THE SURVEYOR'S CERTIFICATE, HAVE CAUSED THE LAND TO BE SURVEYED AND PLATTED INTO LOTS, A BLOCK, AND RESERVES. THE SAME TO BE KNOWN AS GLEN MEADOWS 2ND ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS.

OWNER:
SLAWSON COMMERCIAL PROPERTIES, LLC
BY: _____
JERRY D. JONES, VICE PRESIDENT

STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS _____ DAY OF _____, 2013, BY JERRY D. JONES, VICE PRESIDENT OF SLAWSON COMMERCIAL PROPERTIES, LLC.

_____, NOTARY PUBLIC
SARAH E. HATRUP

STATE OF KANSAS)
COUNTY OF SEDGWICK) SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS _____ DAY OF _____, 2013, BY ROGER G. EASTWOOD, SENIOR VICE PRESIDENT OF INTRUST BANK, N.A.

_____, NOTARY PUBLIC
DON KLAUSMEYER

THIS PLAT OF GLEN MEADOWS 2ND ADDITION HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS.

DATED THIS _____ DAY OF _____, 2013.
WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

_____, CHAIR
JOHN L. SCHLEGEL
_____, SECRETARY

REVIEWED IN ACCORDANCE WITH K.S.A. 58-2005 ON THIS _____ DAY OF _____, 2013.

TRICIA L. ROBELLO, LS #1246
DEPUTY COUNTY SURVEYOR
SEDGWICK COUNTY KANSAS

THIS PLAT IS APPROVED AND ALL DEDICATIONS SHOWN HEREON, IF ANY, ARE ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS, THIS _____ DAY OF _____, 2014.

_____, MAYOR
CARL BREWER
_____, CITY CLERK
KAREN SUBLETT

ENTERED ON TRANSFER RECORD THIS _____ DAY OF _____, 2014.

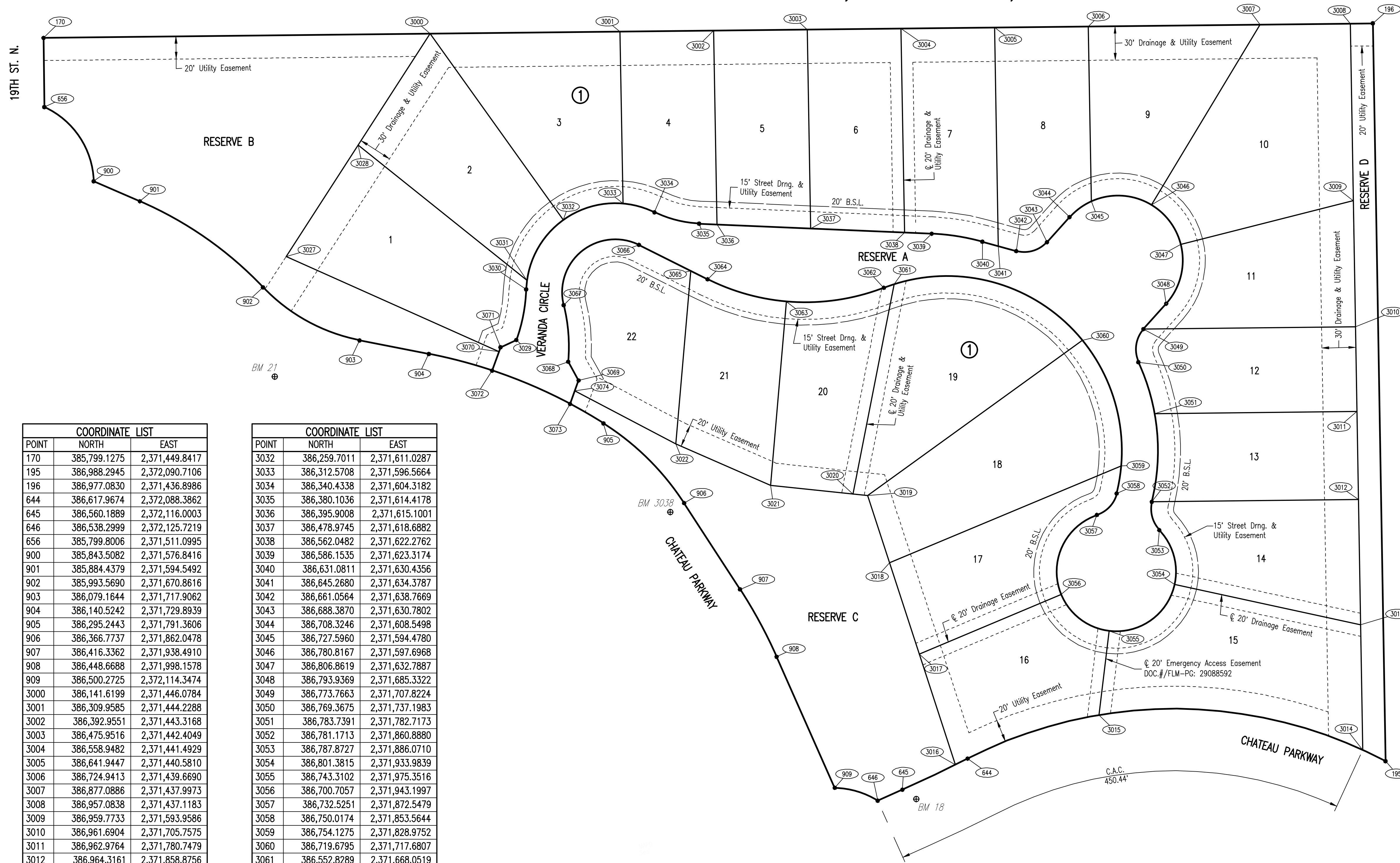
_____, COUNTY CLERK
KELLY ARNOLD
THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE AT _____ M., ON THE _____ DAY OF _____, 2014.
_____, REGISTER OF DEEDS
BILL MEEK
_____, DEPUTY
TONYA BUCKINGHAM

Saved: 02-28-2014 1:31:14 PM by BJS
 Plot Scale: 1" = 50'-28-2014 2:01:36 PM by BJS
 G:\2013\13368\000\13368-000-03C-PLAT

No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS PLAT			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	BMM	Job No.	35-13368-000
Drawn by	BJS	Date	September 2013
			SH. 03 of 22

GLEN MEADOWS 2ND ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS



SCALE: 1" = 50'

POINT	NORTH	EAST
170	385,799.1275	2,371,449.8417
195	386,988.2945	2,372,090.7106
196	386,977.0830	2,371,436.8986
644	386,617.9674	2,372,088.3862
645	386,560.1889	2,372,116.0003
646	386,538.2999	2,372,125.7219
656	385,799.8006	2,371,511.0995
900	385,843.5082	2,371,576.8416
901	385,884.4379	2,371,594.5492
902	385,993.5690	2,371,670.8616
903	386,079.1644	2,371,717.9062
904	386,140.5242	2,371,729.8939
905	386,295.2443	2,371,791.3606
906	386,366.7737	2,371,862.0478
907	386,416.3362	2,371,938.4910
908	386,448.6688	2,371,998.1578
909	386,500.2725	2,372,114.3474
3000	386,141.6199	2,371,446.0784
3001	386,309.9585	2,371,444.2288
3002	386,392.9551	2,371,443.3168
3003	386,475.9516	2,371,442.4049
3004	386,558.9482	2,371,441.4929
3005	386,641.9447	2,371,440.5810
3006	386,724.9413	2,371,439.6690
3007	386,807.9379	2,371,438.7571
3008	386,890.9345	2,371,437.8452
3009	386,973.9311	2,371,436.9333
3010	387,056.9277	2,371,436.0214
3011	387,139.9243	2,371,435.1095
3012	387,222.9209	2,371,434.1976
3013	387,305.9175	2,371,433.2857
3014	387,388.9141	2,371,432.3738
3015	387,471.9107	2,371,431.4619
3016	387,554.9073	2,371,430.5500
3017	387,637.9039	2,371,429.6381
3018	387,720.9005	2,371,428.7262
3019	387,803.8971	2,371,427.8143
3020	387,886.8937	2,371,426.9024
3021	387,969.8903	2,371,425.9905
3022	388,052.8869	2,371,425.0786
3023	388,135.8835	2,371,424.1667
3024	388,218.8801	2,371,423.2548
3025	388,301.8767	2,371,422.3429
3026	388,384.8733	2,371,421.4310
3027	388,467.8699	2,371,420.5191
3028	388,550.8665	2,371,419.6072
3029	388,633.8631	2,371,418.6953
3030	388,716.8597	2,371,417.7834
3031	388,799.8563	2,371,416.8715

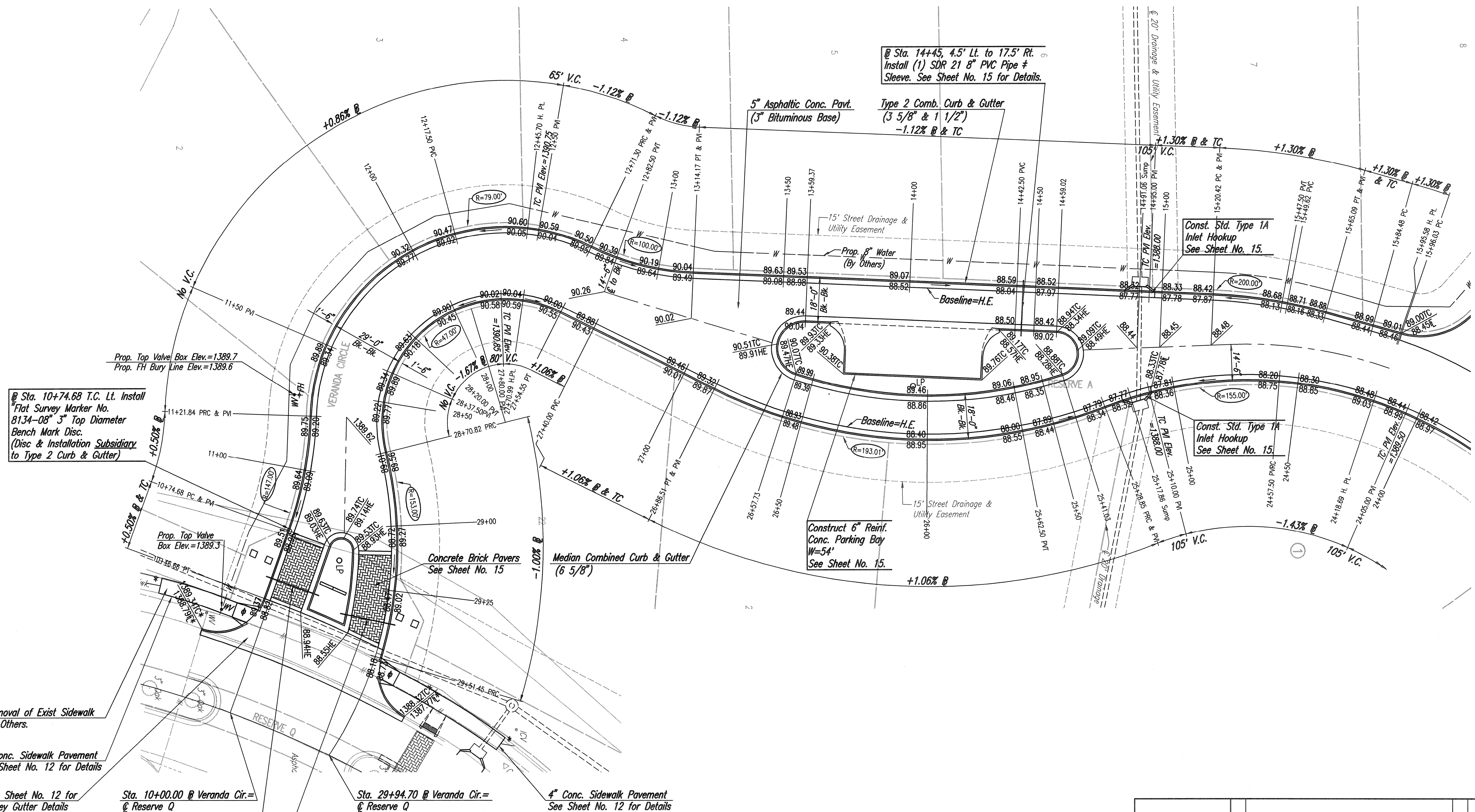
POINT	NORTH	EAST
3032	386,259.7011	2,371,611.0287
3033	386,312.5708	2,371,596.5664
3034	386,340.4338	2,371,604.3182
3035	386,380.1036	2,371,614.4178
3036	386,395.9008	2,371,615.1001
3037	386,478.9745	2,371,618.6882
3038	386,562.0482	2,371,622.2762
3039	386,586.1535	2,371,623.3174
3040	386,631.0811	2,371,630.4356
3041	386,645.2680	2,371,634.3787
3042	386,661.0564	2,371,638.7669
3043	386,688.3870	2,371,630.7802
3044	386,708.3246	2,371,608.5498
3045	386,727.5960	2,371,594.4780
3046	386,780.8167	2,371,597.6968
3047	386,806.8619	2,371,632.7887
3048	386,793.9369	2,371,685.3322
3049	386,773.7663	2,371,707.8224
3050	386,769.3675	2,371,737.1983
3051	386,783.7391	2,371,782.7173
3052	386,781.1713	2,371,860.8880
3053	386,787.8727	2,371,886.0710
3054	386,801.3815	2,371,933.9839
3055	386,743.3102	2,371,975.3516
3056	386,700.7057	2,371,943.1997
3057	386,732.5251	2,371,872.5479
3058	386,750.0174	2,371,853.5644
3059	386,754.1275	2,371,828.9752
3060	386,719.6795	2,371,717.6807
3061	386,552.8289	2,371,668.0519
3062	386,543.7598	2,371,671.2411
3063	386,457.4508	2,371,683.5234
3064	386,387.5730	2,371,663.7552
3065	386,372.7502	2,371,656.3210
3066	386,326.7566	2,371,633.2537
3067	386,260.0793	2,371,686.6254
3068	386,264.0470	2,371,736.7792
3069	386,273.2408	2,371,753.3327
3070	386,202.6895	2,371,727.8863
3071	386,204.1071	2,371,723.9509
3072	386,196.6490	2,371,744.6548
3073	386,265.7125	2,371,774.2314
3074	386,269.9450	2,371,762.4818

⊕ = COORDINATE POINT NO.

⊕ = COORDINATE POINT NO.

Served: 02-04-2014, 2:10:24 PM by BJS
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 C:\2013\13368\000\13368-000-CAC-PLAT_COORDINATE_POINTS

No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS PLAT COORDINATE POINTS			
PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	BMM	Job No.	35-13368-000
Drawn by	BJS	Date	September 2013
			SHEET 04 OF 22



Sta. 10+74.68 T.C. Lt. Install Flat Survey Marker No. 8134-08 3" Top Diameter Bench Mark Disc. (Disc & Installation Subsidiary to Type 2 Curb & Gutter)

Prop. Top Valve Box Elev.=1389.7
Prop. FH Bury Line Elev.=1389.6

Sta. 10+55, 4.5' Lt. to 17.5' Rt. Install (1) SDR 21 8" PVC Pipe & Sleeve. See Sheet No. 15 for Details.

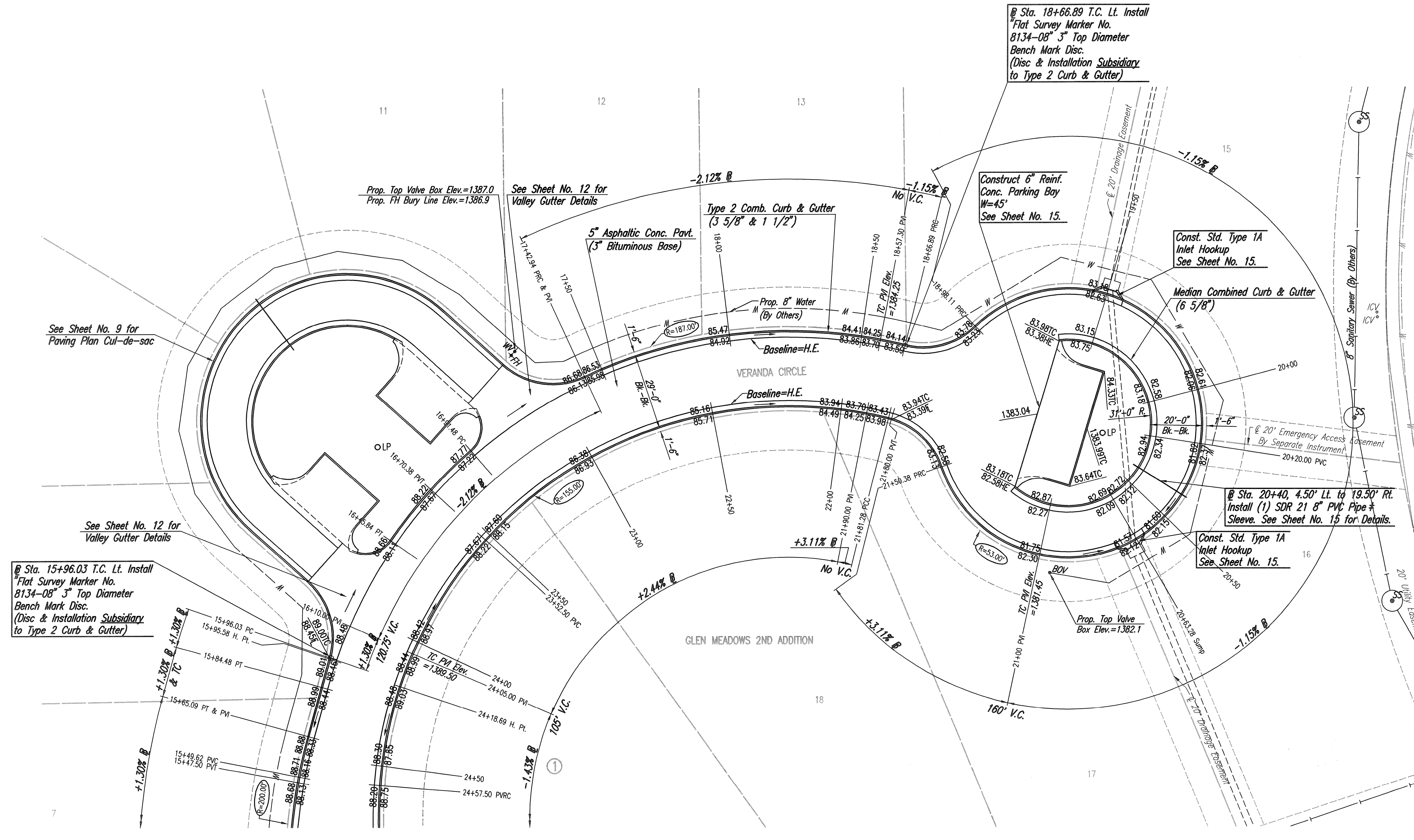
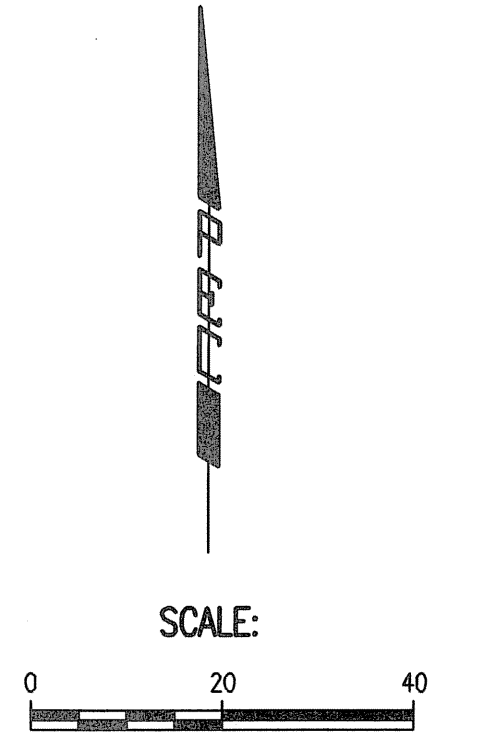
Sta. 29+38, 4.5' Lt. to 17.5' Rt. Install (1) SDR 21 8" PVC Pipe & Sleeve. See Sheet No. 15 for Details.

Construct Sidewalk Ramp, See Sheet No. 14.
Match Existing
Sleeves to be 42" below top of curb. Each end of 4" PVC pipe sleeves shall be capped and marked with steel "T" posts or 2" dia. steel pipe a maximum of 12" above finished grade. Pipe, caps, markers, and installation thereof shall be paid for at the unit price bid per each "PVC Sleeves".

NOTE: THIS STREET TO BE CONSTRUCTED WITH ROLL-TYPE CURB. TOP OF CURB ELEVATIONS GIVEN ARE FOR FULL HEIGHT CURB.

Saved: 02-28-2014 1:05:47 PM by BJS
 01-28-2014 10:45:59 AM by BJS
 01-20-2014 11:38:00 AM by BJS
 01-20-2014 11:38:00 AM by BJS

No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS PAVING PLAN VERANDA CIRCLE			
Designed by BMM Drawn by BJS		Job No. 35-13368-000 Date September 2013	
			SH. 07 of 22



@ Sta. 15+96.03 T.C. Lt. Install
 Flat Survey Marker No.
 8134-08 3" Top Diameter
 Bench Mark Disc.
 (Disc & Installation Subsidiary
 to Type 2 Curb & Gutter)

See Sheet No. 9 for
 Paving Plan Cul-de-sac

See Sheet No. 12 for
 Valley Gutter Details

Prop. Top Valve Box Elev.=1387.0
 Prop. FH Bury Line Elev.=1386.9

See Sheet No. 12 for
 Valley Gutter Details

5" Asphaltic Conc. Pavt.
 (3" Bituminous Base)

Type 2 Comb. Curb & Gutter
 (3 5/8" & 1 1/2")

Construct 6" Reinf.
 Conc. Parking Bay
 W=45'
 See Sheet No. 15.

Const. Std. Type 1A
 Inlet Hookup
 See Sheet No. 15.

Median Combined Curb & Gutter
 (6 5/8")

@ Sta. 20+40, 4.50' Lt. to 19.50' Rt.
 Install (1) SDR 21 8" PVC Pipe &
 Sleeve. See Sheet No. 15 for Details.

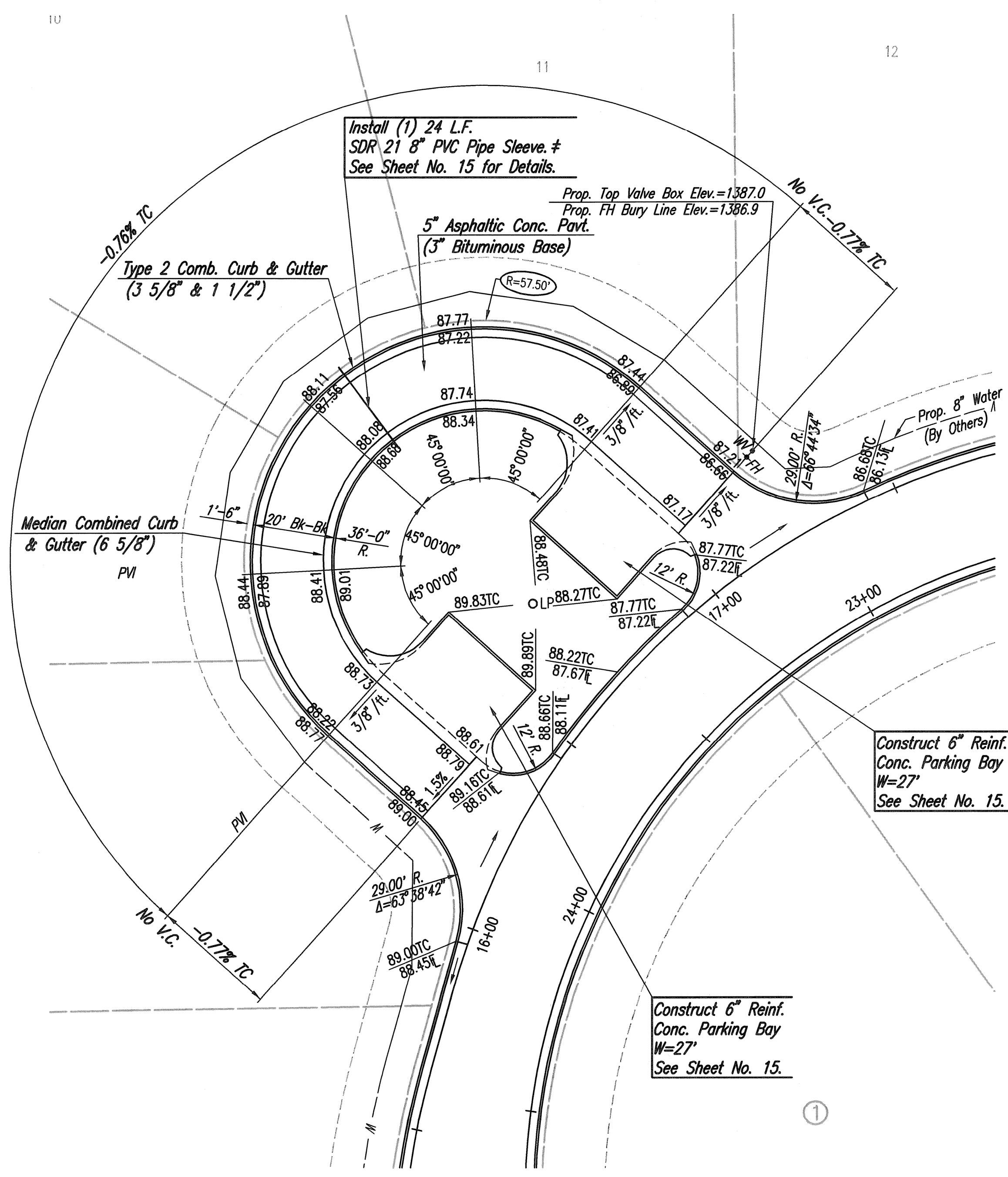
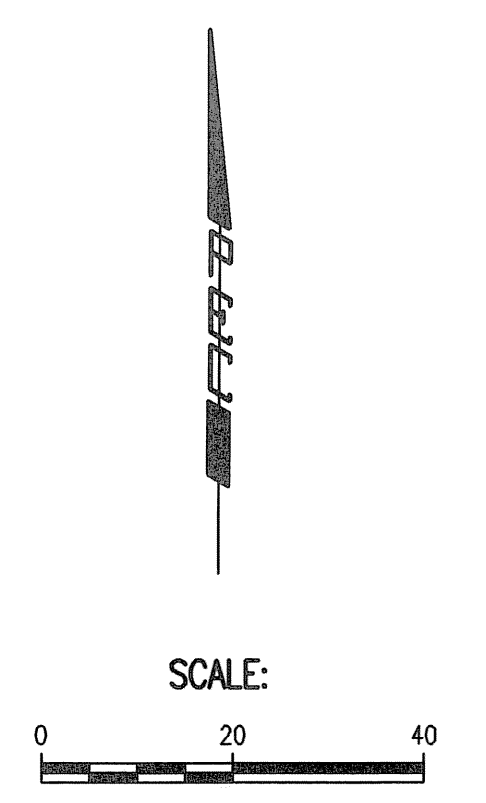
Const. Std. Type 1A
 Inlet Hookup
 See Sheet No. 15.

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 D:\03546-17-02-2014\03546-00-000-PAVING PLAN VERANDA CIRCLE
 D:\03546-17-02-2014\03546-00-000-PAVING PLAN VERANDA CIRCLE

* Sleeves to be 42" below top of curb.
 Each end of 4" PVC pipe sleeves shall be capped
 and marked with steel "1" posts or 2" dia.
 steel pipe a maximum of 12" above finished
 grade. Pipe, caps, markers, and installation
 thereof shall be paid for at the unit price bid
 per each "PVC Sleeves".

NOTE: THIS STREET TO BE CONSTRUCTED WITH
 ROLL-TYPE CURB. TOP OF CURB ELEVATIONS
 GIVEN ARE FOR FULL HEIGHT CURB.

	Revision _____ By _____ Date _____	
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS	
PAVING PLAN VERANDA CIRCLE		
Designed by BMM	Job No. 35-13368-000	Sht. 08 of 22
Drawn by BJS	Date September 2013	



Install (1) 24 L.F.
SDR 21 8" PVC Pipe Sleeve. #
See Sheet No. 15 for Details.

Prop. Top Valve Box Elev.=1387.0
Prop. FH Bury Line Elev.=1386.9

5" Asphaltic Conc. Pavt.
(3" Bituminous Base)

Type 2 Comb. Curb & Gutter
(3 5/8" & 1 1/2")

Median Combined Curb
& Gutter (6 5/8")
PVI

Construct 6" Reinf.
Conc. Parking Bay
W=27'
See Sheet No. 15.

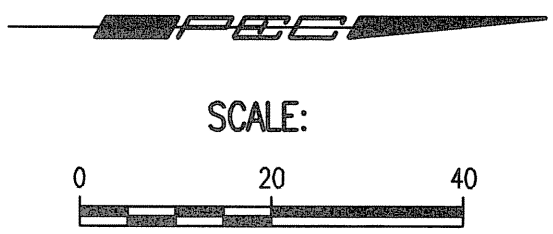
Construct 6" Reinf.
Conc. Parking Bay
W=27'
See Sheet No. 15.

‡ Sleeves to be 42" below top of curb.
Each end of 4" PVC pipe sleeves shall be capped
and marked with steel "T" posts or 2" dia.
steel pipe a maximum of 12" above finished
grade. Pipe, caps, markers, and installation
thereof shall be paid for at the unit price bid
per each "PVC Sleeves".

NOTE: THIS STREET TO BE CONSTRUCTED WITH
ROLL-TYPE CURB. TOP OF CURB ELEVATIONS
GIVEN ARE FOR FULL HEIGHT CURB.

Saved: 02-27-2014 1:45:52 PM by: BJS
 Plot Scale: 1" = 40'-0" (1:480)
 Q:\2013\13368-000\13368-000-03C-PAVING PLAN CUL-DE-SAC

	Revision		By	Date
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS			
	<h3>PAVING PLAN CUL-DE-SAC</h3>			
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	BMM	Job No.	35-13368-000	Sht. 09 of 22
Drawn by	BJS	Date	September 2013	

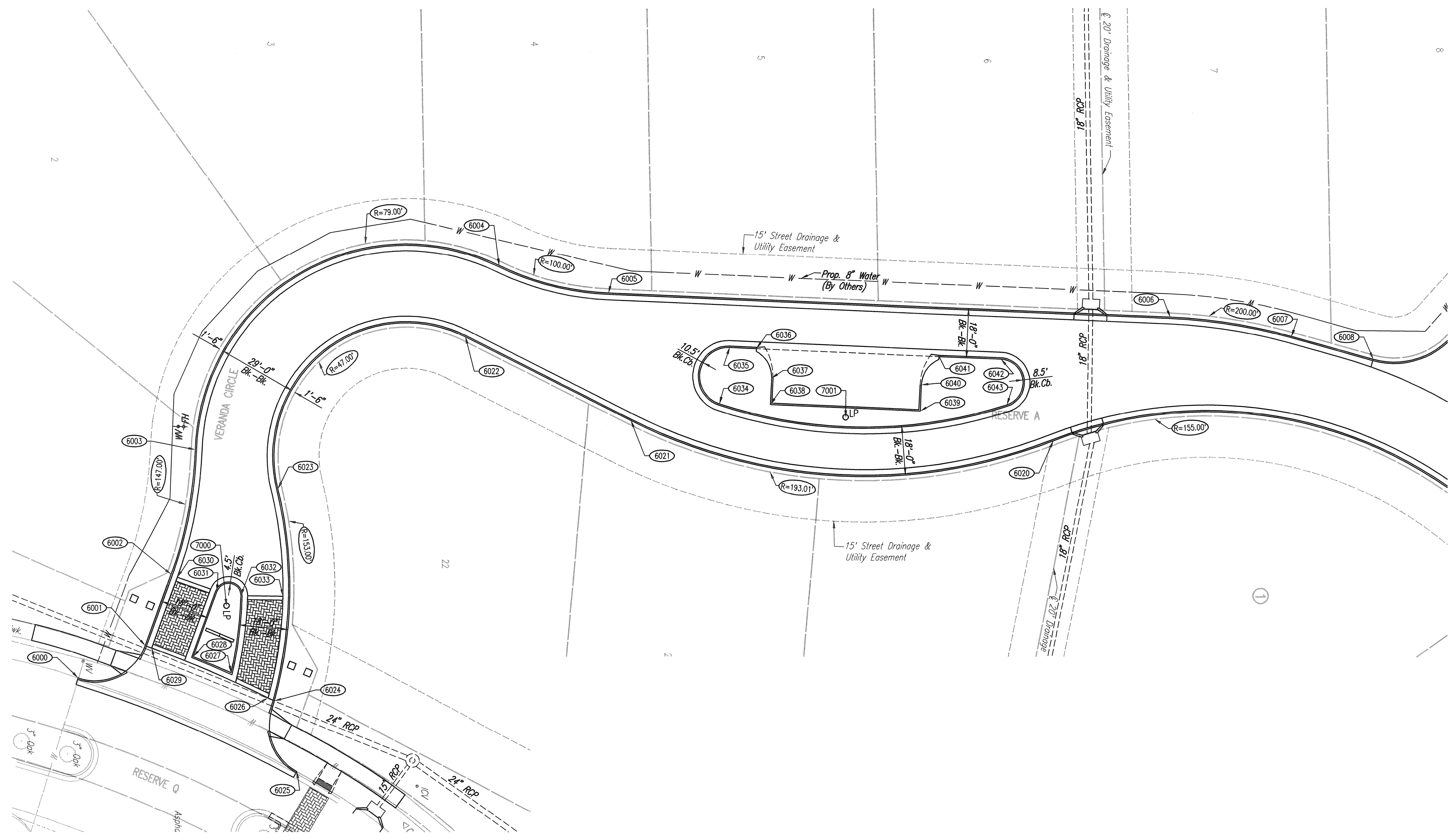


COORDINATE LIST		
POINT	NORTH	EAST
6000	386,185.3734	2,371,756.2394
6001	386,210.0282	2,371,744.3969
6002	386,219.5239	2,371,718.0368
6003	386,228.2292	2,371,672.6744
6004	386,339.7741	2,371,605.6652
6005	386,380.0389	2,371,615.9164
6006	386,586.0887	2,371,624.8160
6007	386,630.6794	2,371,631.8808
6008	386,660.6547	2,371,640.2121
6020	386,543.2185	2,371,669.8421
6021	386,388.2454	2,371,662.4144
6022	386,327.4290	2,371,631.9128
6023	386,258.6237	2,371,686.9879
6024	386,257.4222	2,371,764.7453
6025	386,265.6872	2,371,790.7095
6026	386,255.1420	2,371,763.6177
6027	386,241.5015	2,371,754.4557
6028	386,227.6707	2,371,748.5326
6029	386,212.3752	2,371,745.2583
6030	386,221.7778	2,371,719.1563
6031	386,236.3605	2,371,724.4094
6032	386,245.0935	2,371,726.0158
6033	386,260.5909	2,371,726.2958
6034	386,420.7420	2,371,656.3314
6035	386,424.4248	2,371,635.8503
6036	386,434.2909	2,371,636.2764
6037	386,439.8600	2,371,647.0267
6038	386,439.4501	2,371,656.5179
6039	386,494.3989	2,371,658.8912
6040	386,494.8088	2,371,649.4001
6041	386,501.2842	2,371,639.1699
6042	386,523.9881	2,371,640.1505
6043	386,526.1714	2,371,656.7511

6000 = COORDINATE POINT NO.
SEE SHEET NO. 4 FOR PLAT COORDINATES

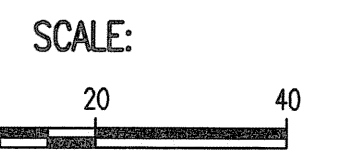
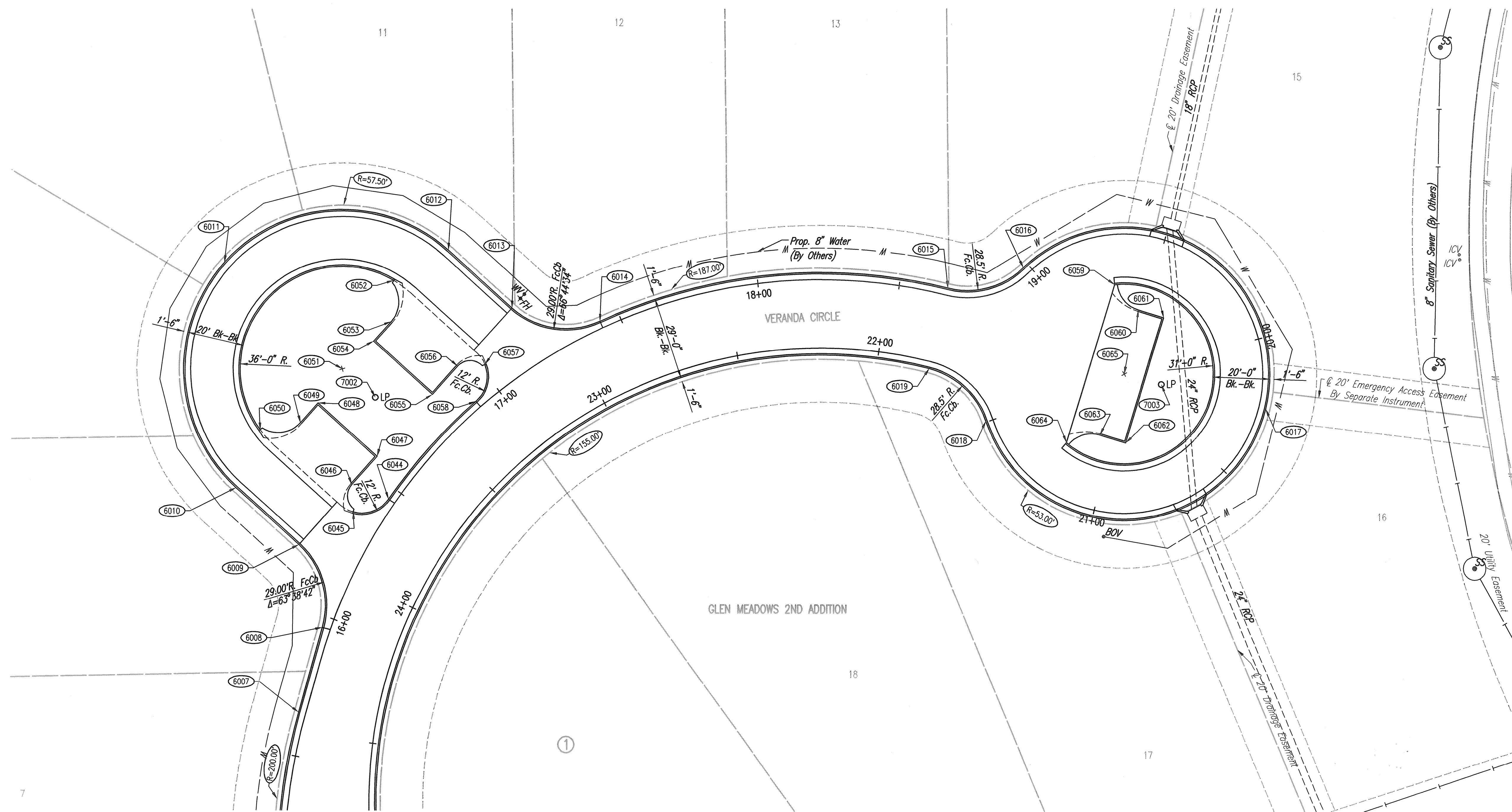
COORDINATE LIST FOR LIGHTS POLES		
POINT	NORTH	EAST
7000	386,239.8363	2,371,729.7379
7001	386,467.0376	2,371,661.1928

7000 = COORDINATE POINT NO.
SEE SHEET NO. 4 FOR PLAT COORDINATES



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	Revision		By	Date
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS GEOMETRY PLAN VERANDA CIR.			
		IPEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com		
Designed by	BMM	Job No.	35-13368-000	Sht. 10 of 22
Drawn by	BJS	Date	September 2013	



COORDINATE LIST		
POINT	NORTH	EAST
6007	386,630.6794	2,371,631.8808
6008	386,660.6547	2,371,640.2121
6009	386,689.5037	2,371,631.7817
6010	386,709.4413	2,371,609.5513
6011	386,788.5204	2,371,605.2516
6012	386,792.8202	2,371,684.3307
6013	386,772.6496	2,371,706.8209
6014	386,768.0064	2,371,737.8288
6015	386,779.7155	2,371,860.5263
6016	386,786.7893	2,371,887.1084
6017	386,737.3677	2,371,972.7534
6018	386,733.0081	2,371,873.9680
6019	386,751.4722	2,371,853.9299
6044	386,705.4059	2,371,663.3716
6045	386,700.8649	2,371,650.8966
6046	386,710.5487	2,371,650.4062
6047	386,720.4463	2,371,659.2830
6048	386,739.1412	2,371,638.4382
6049	386,732.2017	2,371,632.2145
6050	386,729.7424	2,371,617.9835
6051	386,751.1307	2,371,646.9410
6052	386,782.2366	2,371,665.0636
6053	386,767.8228	2,371,664.1617
6054	386,760.8834	2,371,657.9380
6055	386,742.1885	2,371,678.7827
6056	386,752.0862	2,371,687.6595
6057	386,752.6485	2,371,697.3394
6058	386,739.7548	2,371,694.1778
6059	386,780.9033	2,371,919.2897
6060	386,772.1467	2,371,927.6040
6061	386,769.3863	2,371,936.6941
6062	386,725.3710	2,371,923.3279
6063	386,728.1314	2,371,914.2379
6064	386,725.4768	2,371,902.4582
6065	386,749.5912	2,371,922.7251

6007 = COORDINATE POINT NO.
SEE SHEET NO. 4 FOR PLAT COORDINATES

COORDINATE LIST FOR LIGHTS POLES		
POINT	NORTH	EAST
7002	386,741.1204	2,371,658.5757
7003	386,745.9430	2,371,935.8610

7002 = COORDINATE POINT NO.
SEE SHEET NO. 4 FOR PLAT COORDINATES

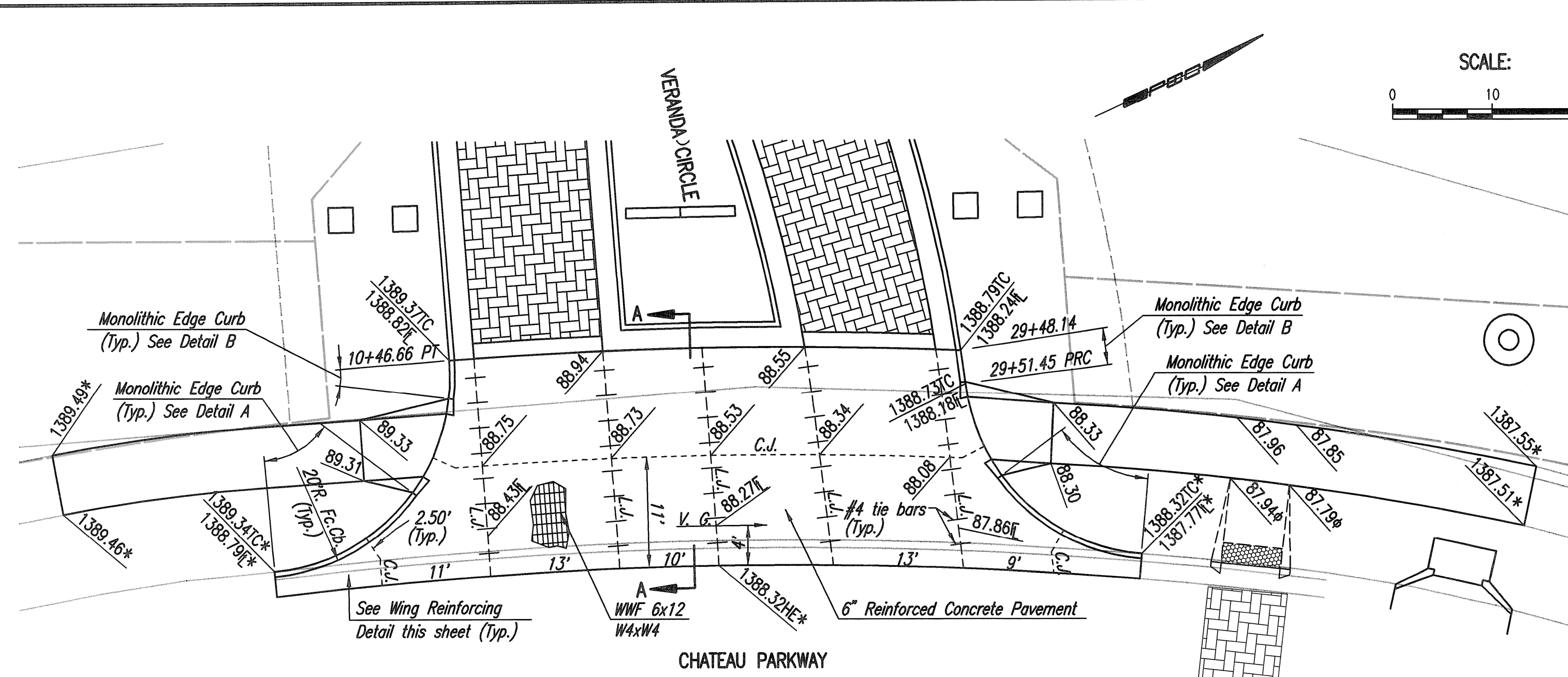
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No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS GEOMETRY PLAN VERANDA CIR.			

303 SOUTH TOPEKA WICHITA, KS 67202
 316-262-2691 www.pec1.com

Designed by BMM Job No. 35-13368-000
 Drawn by BJS Date September 2013 Sht. 11 of 22

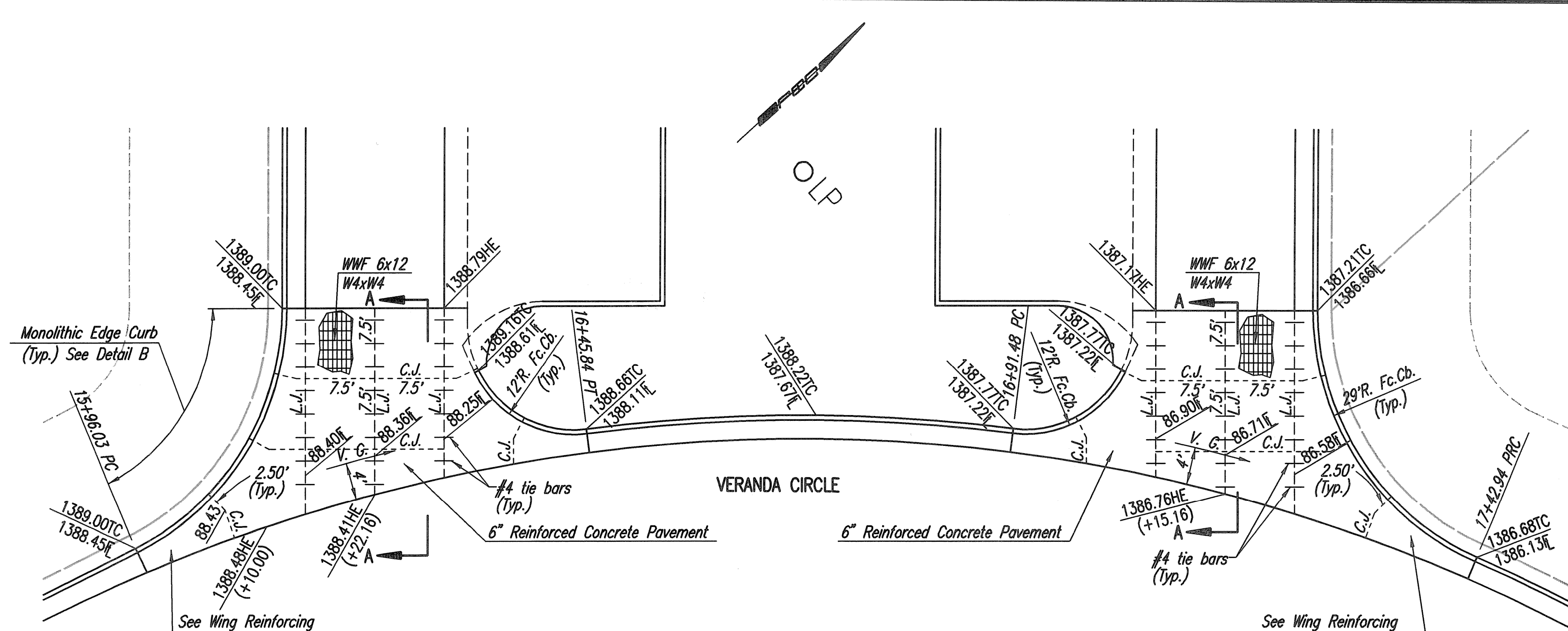
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 01:35:56 (02-28-2014 1:45:05 PM) by BJS, SECTION



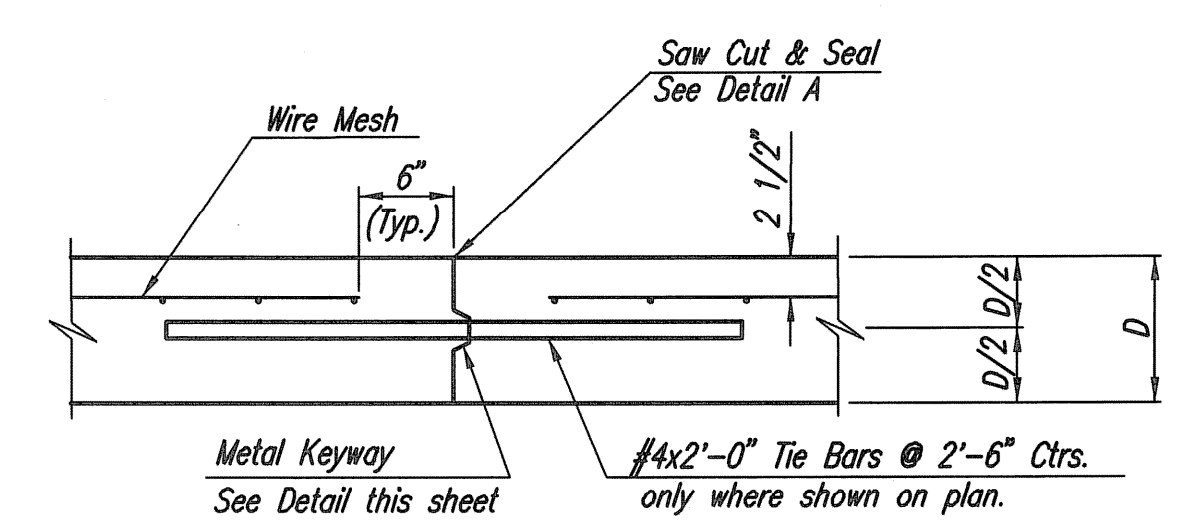
PLAN
REINFORCED VALLEY GUTTER

* Match Existing
 Prior to Construction Contractor Shall
 Field Verify Elevation and Report These
 Findings to the Engineer so that any
 Necessary Adjustments can be made.

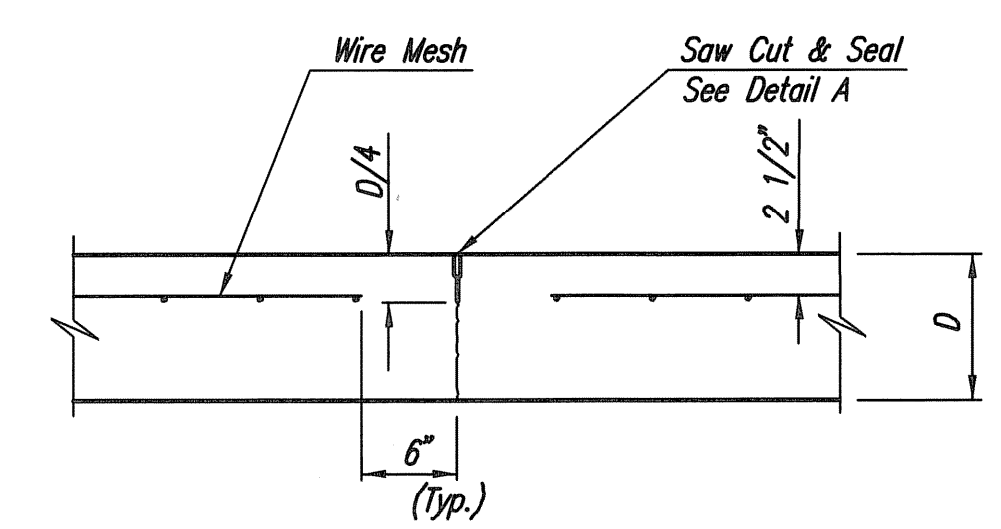
6"x12" W4xW4 WIRE FABRIC REINFORCING
 SHALL BE PLACED SUCH THAT THE WIRES
 WITH THE 6" SPACING WILL RUN PARALLEL
 WITH THE LONGITUDINAL JOINT.



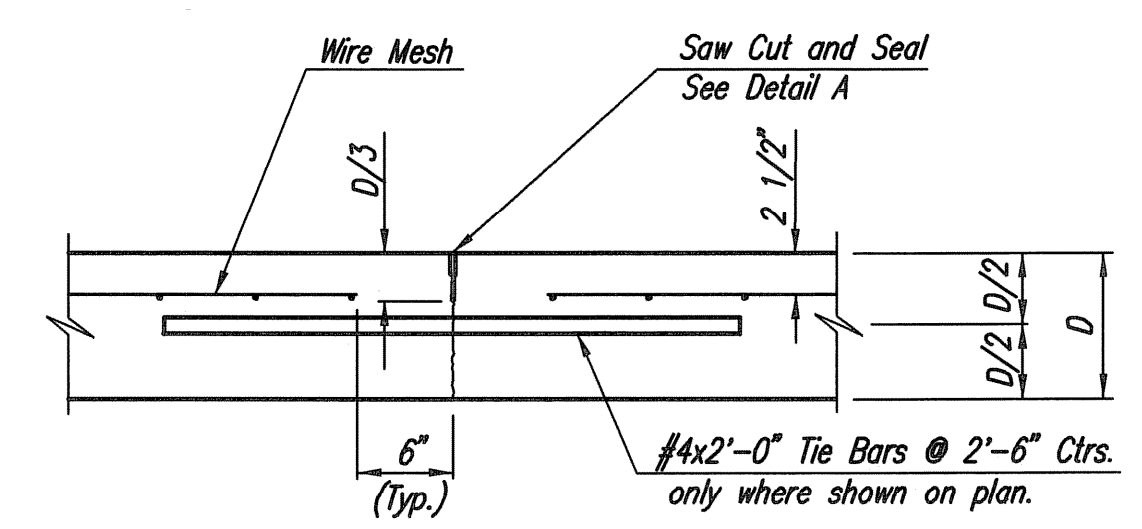
PLAN
REINFORCED VALLEY GUTTER



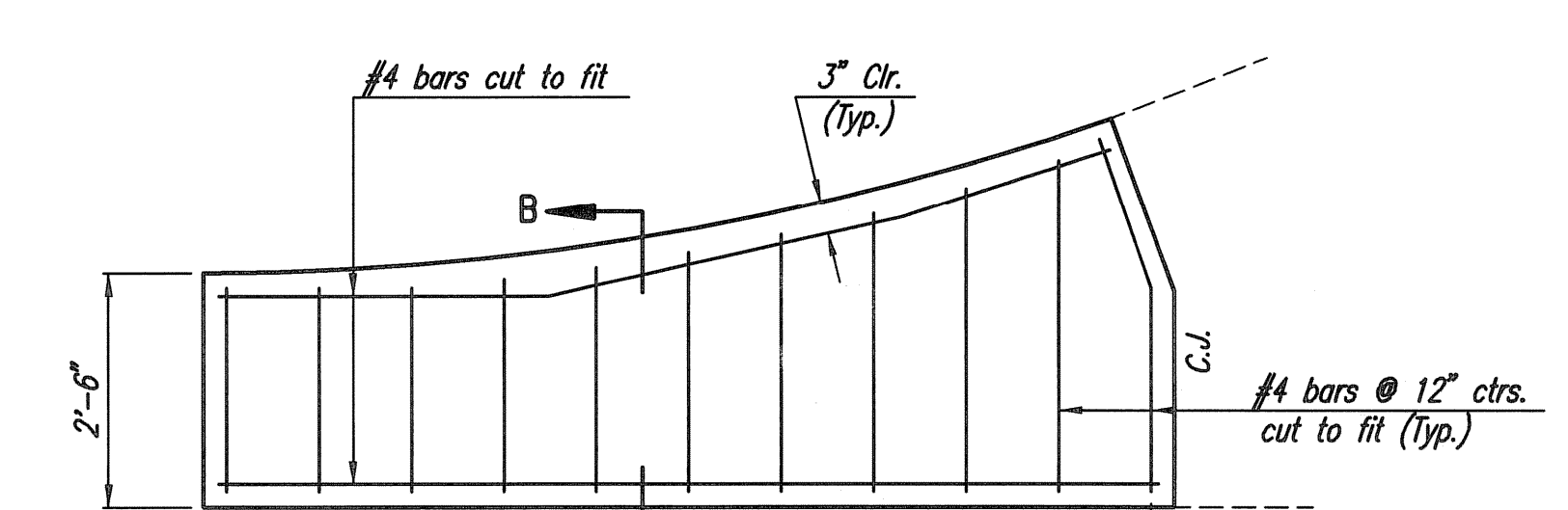
LONGITUDINAL CONSTRUCTION JOINT DETAIL
REINFORCED PAVEMENT
(TRANSVERSE SECTION)
(ALTERNATE L.J.)



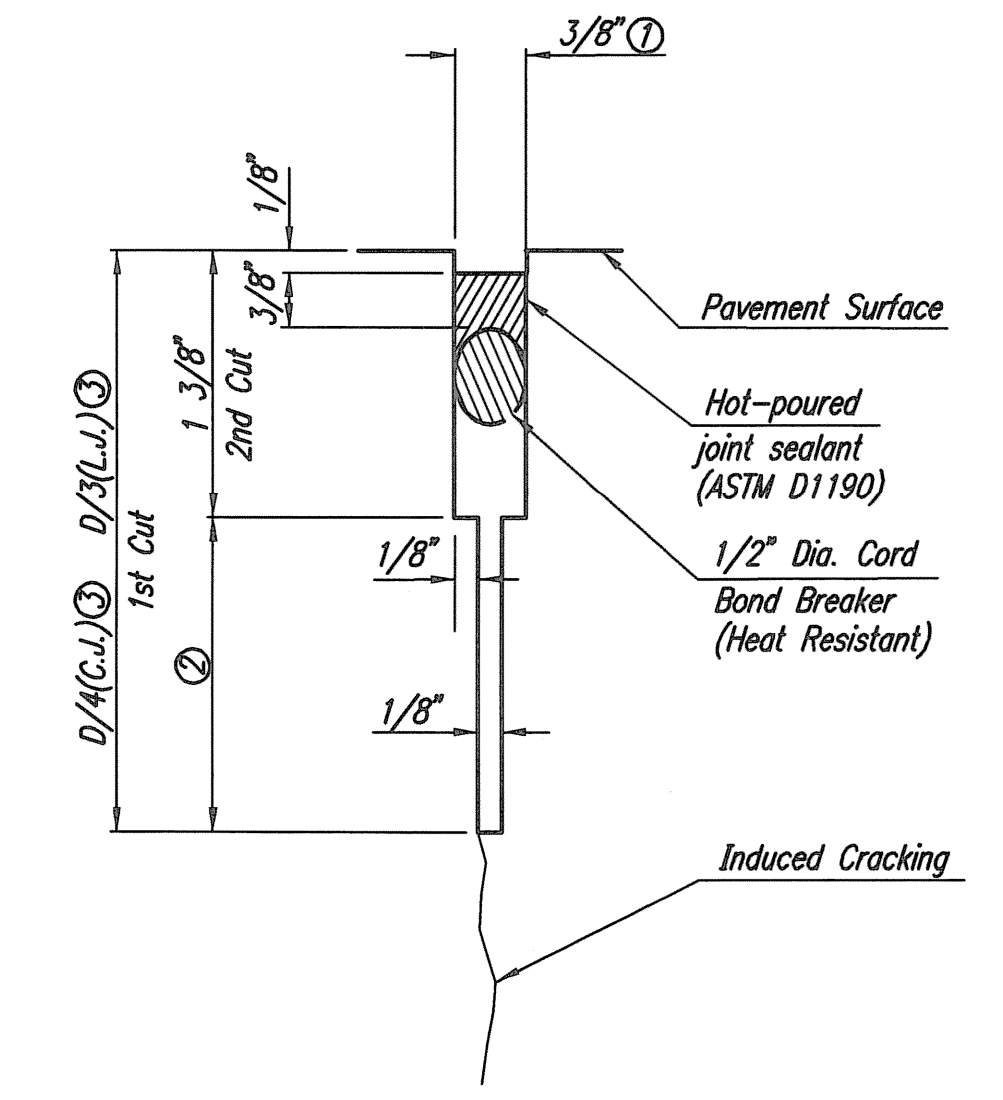
CONTRACTION JOINT DETAIL
REINFORCED PAVEMENT
(C.J.)



LONGITUDINAL JOINT DETAIL
REINFORCED PAVEMENT
(TRANSVERSE SECTION)
(L.J.)

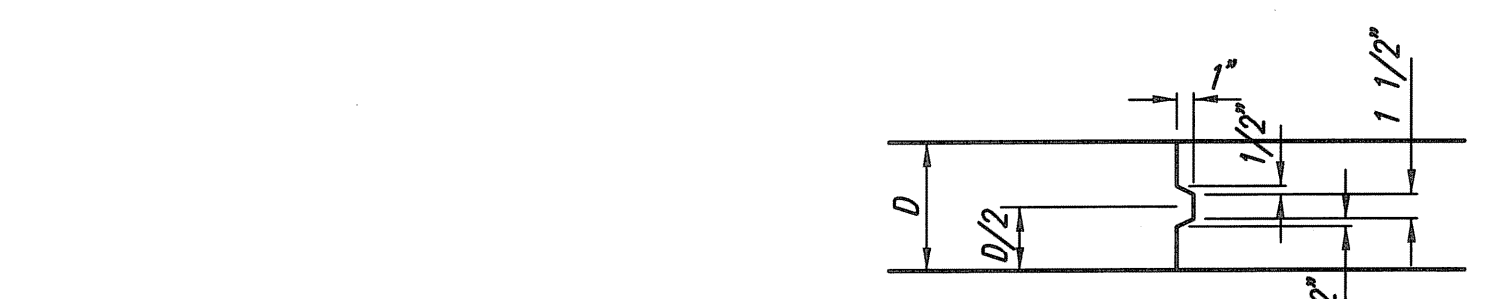


WING REINFORCING DETAIL
 NOTE: OMIT WIRE FABRIC REINFORCING IN THIS SECTION.

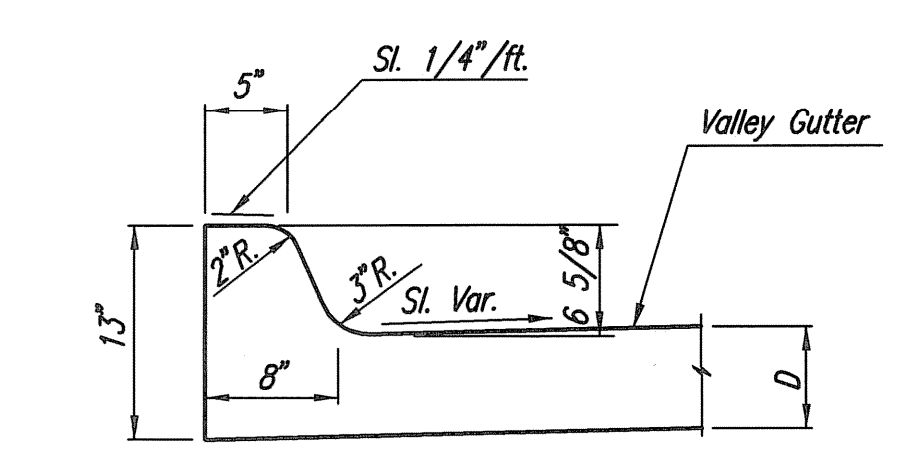


DETAIL A

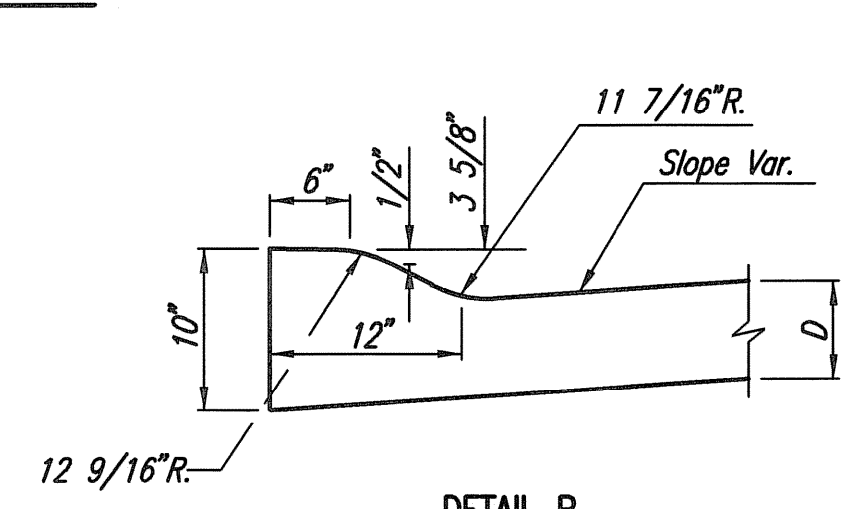
- ① To be accomplished in 2 cuts for Longitudinal Joints and Contraction Joints. Initial cut to be 1/8" wide.
- ② Eliminate bottom of cut when metal keyway is used as part of Longitudinal or Transverse Construction Joint and at Doweled Construction Joint Locations.
- ③ 1 1/2" Minimum



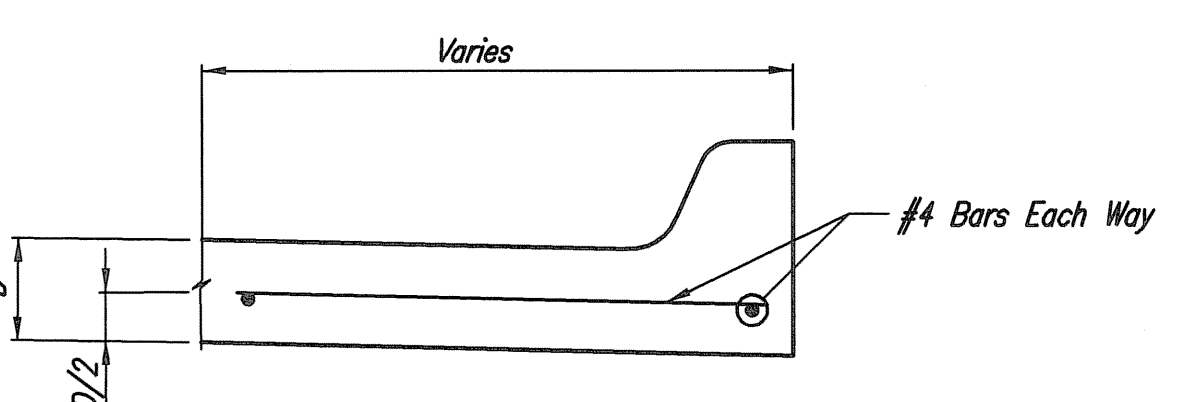
KEYWAY DETAIL



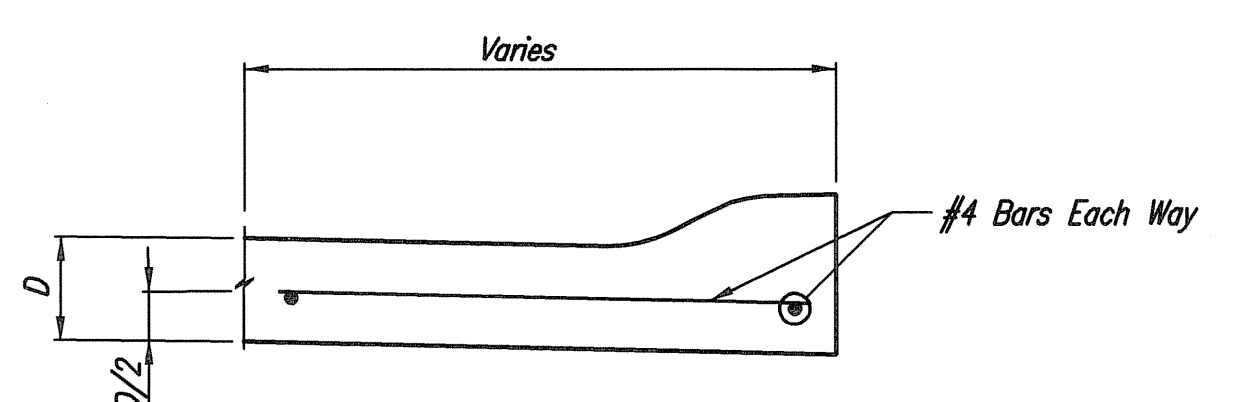
DETAIL A (STD.-TYPE CURB)



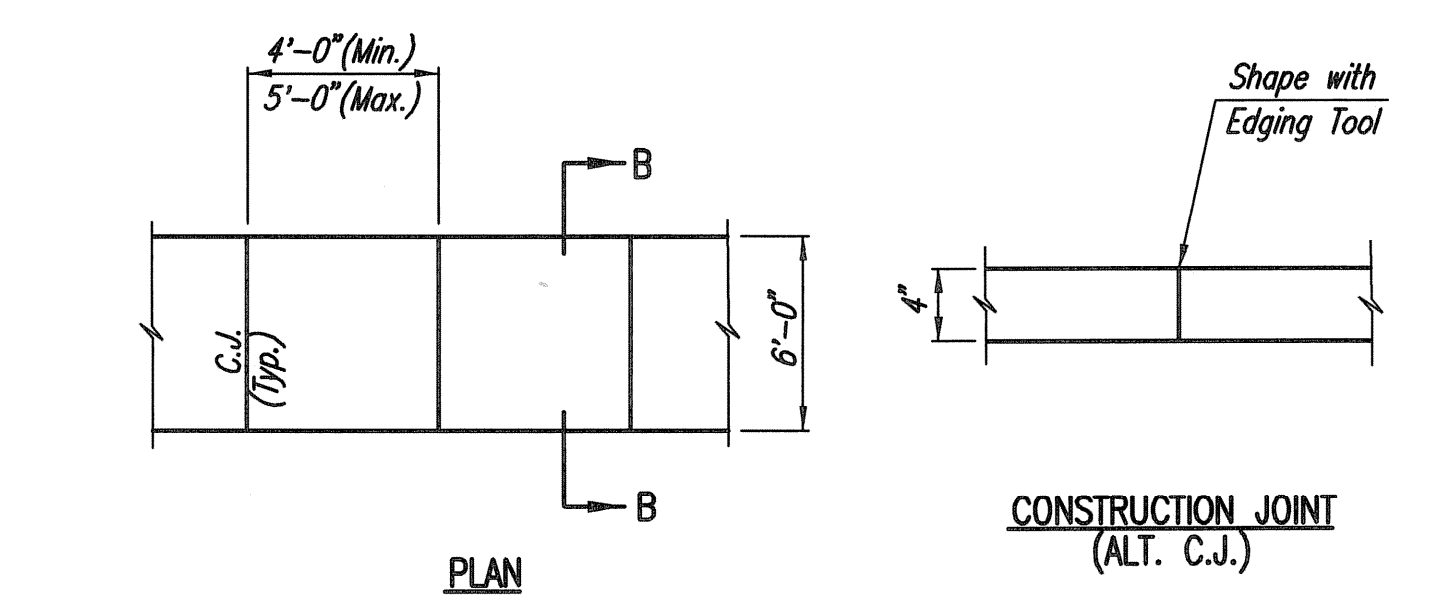
DETAIL B (ROLL-TYPE CURB)



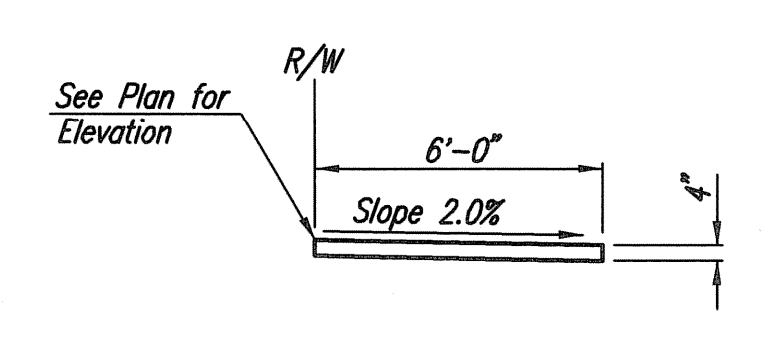
SECTION B-B (STD.-TYPE CURB)



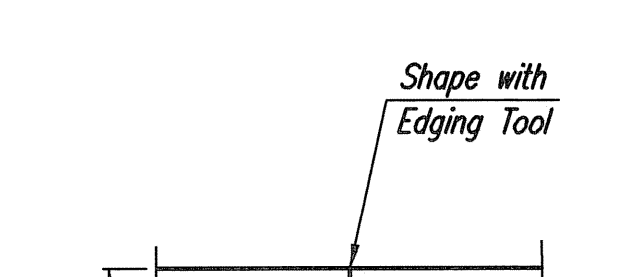
SECTION B-B (ROLL-TYPE CURB)



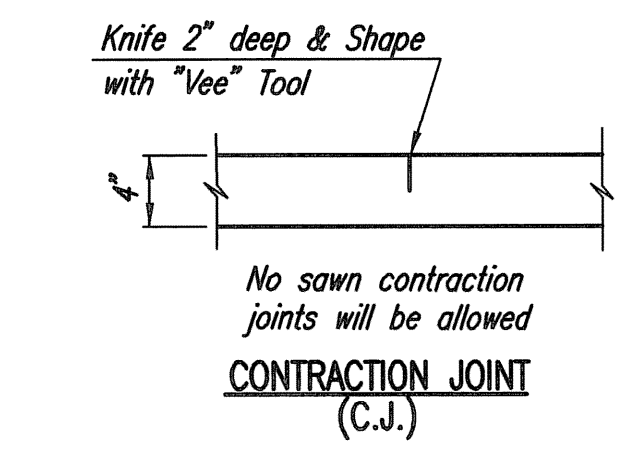
CONSTRUCTION JOINT (ALT. C.J.)



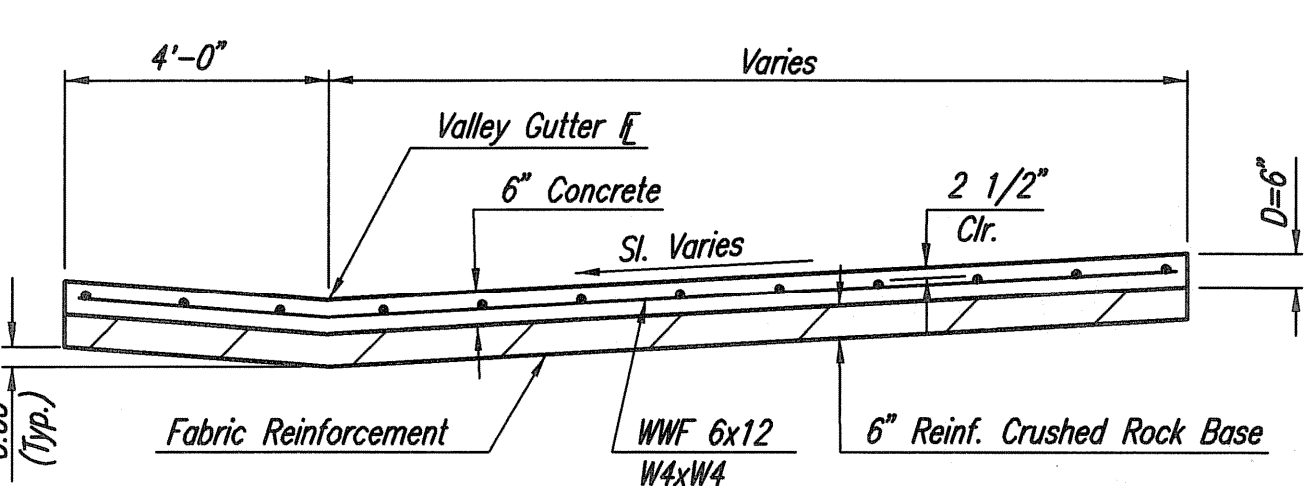
SECTION B-B



CONSTRUCTION JOINT (C.J.)

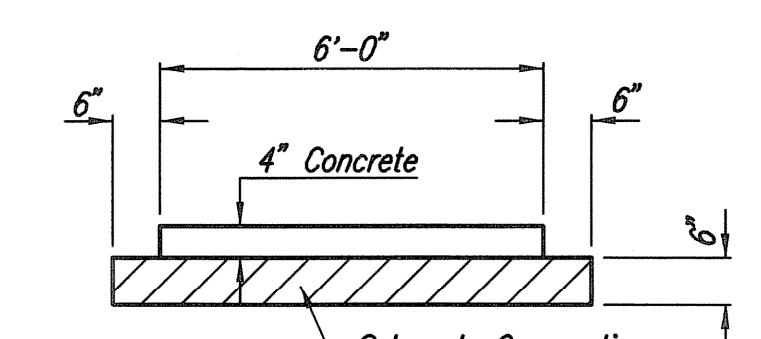


4\"/>



SECTION A-A

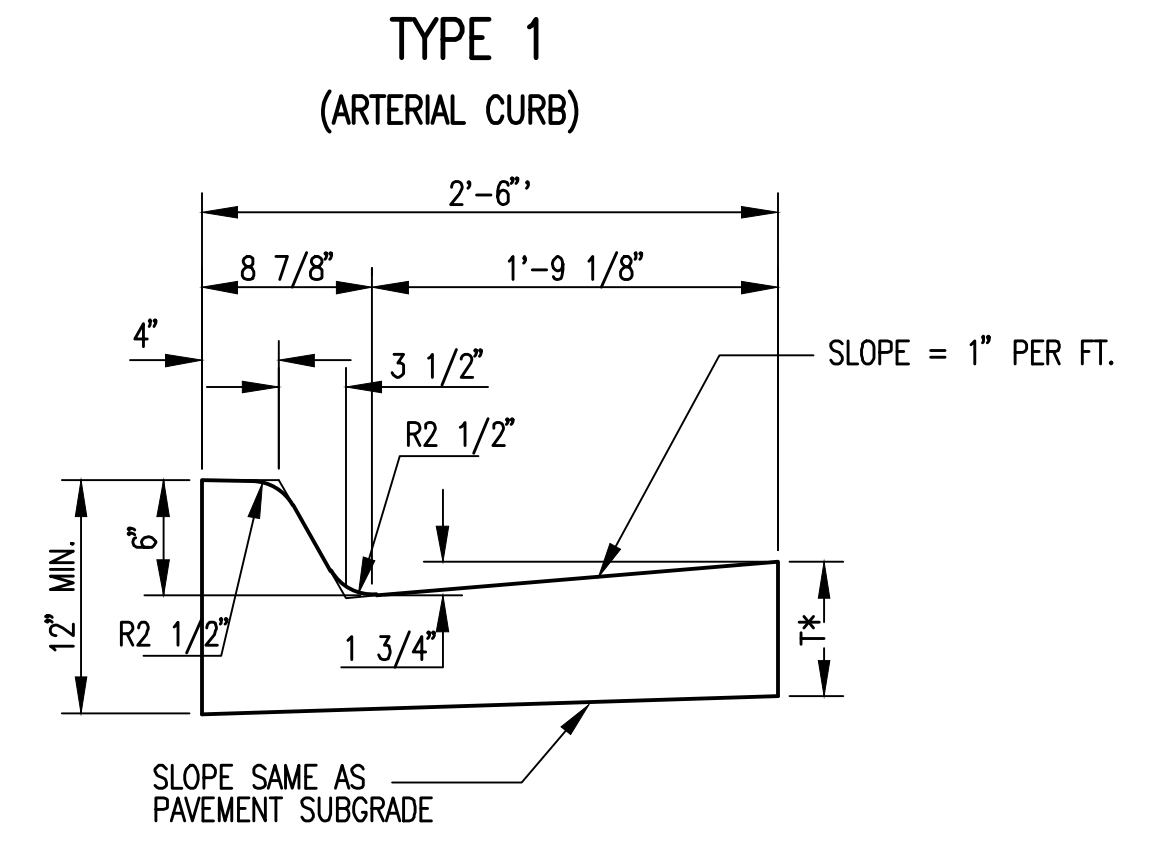
NOTE: OMIT REINFORCING MESH AT ALL JOINTS
 NOTE: ALL CONCRETE VALLEY GUTTER REINFORCEMENT SHALL
 BE ADEQUATELY SUPPORTED BY BAR CHAIRS IN THE REQUIRED
 POSITION UNLESS APPROVED OTHERWISE BY THE ENGINEER.



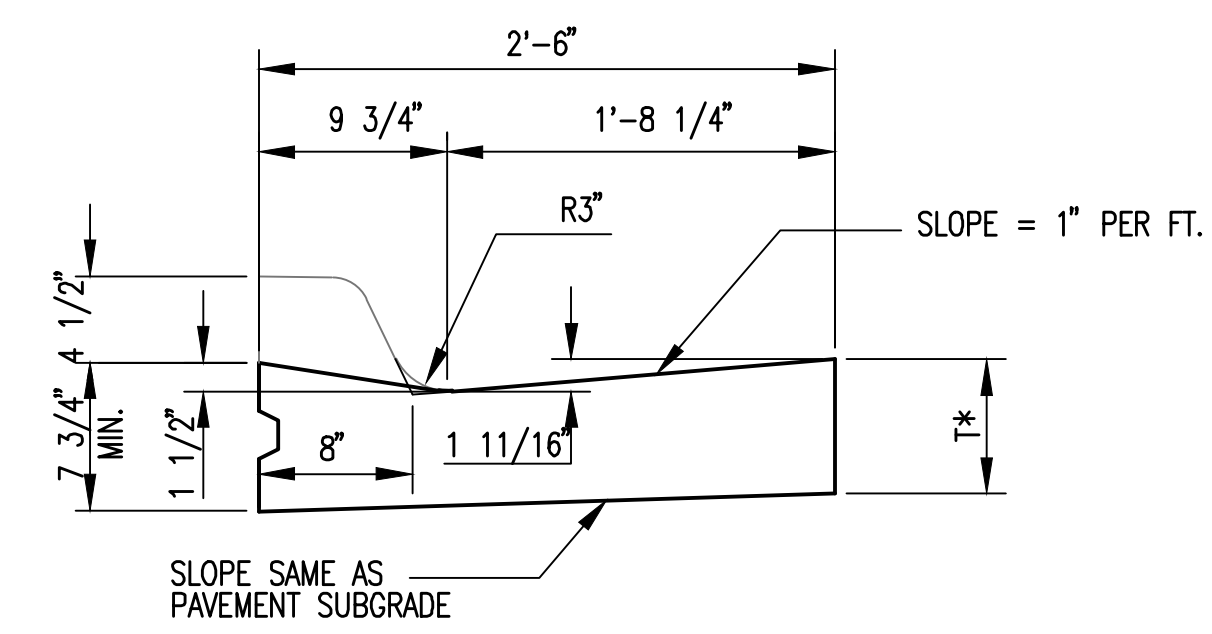
TYPICAL SIDEWALK SECTION
SIDEWALK NOTES

1. THE CONTRACTOR SHALL COMPACT 6" SUBGRADE UNDER ALL SIDEWALKS AS DETAILED ON THIS SHEET. ALL SIDEWALK COMPACTION SHALL BE CONSIDERED SUBSIDIARY TO "CONCRETE SIDEWALK 4".

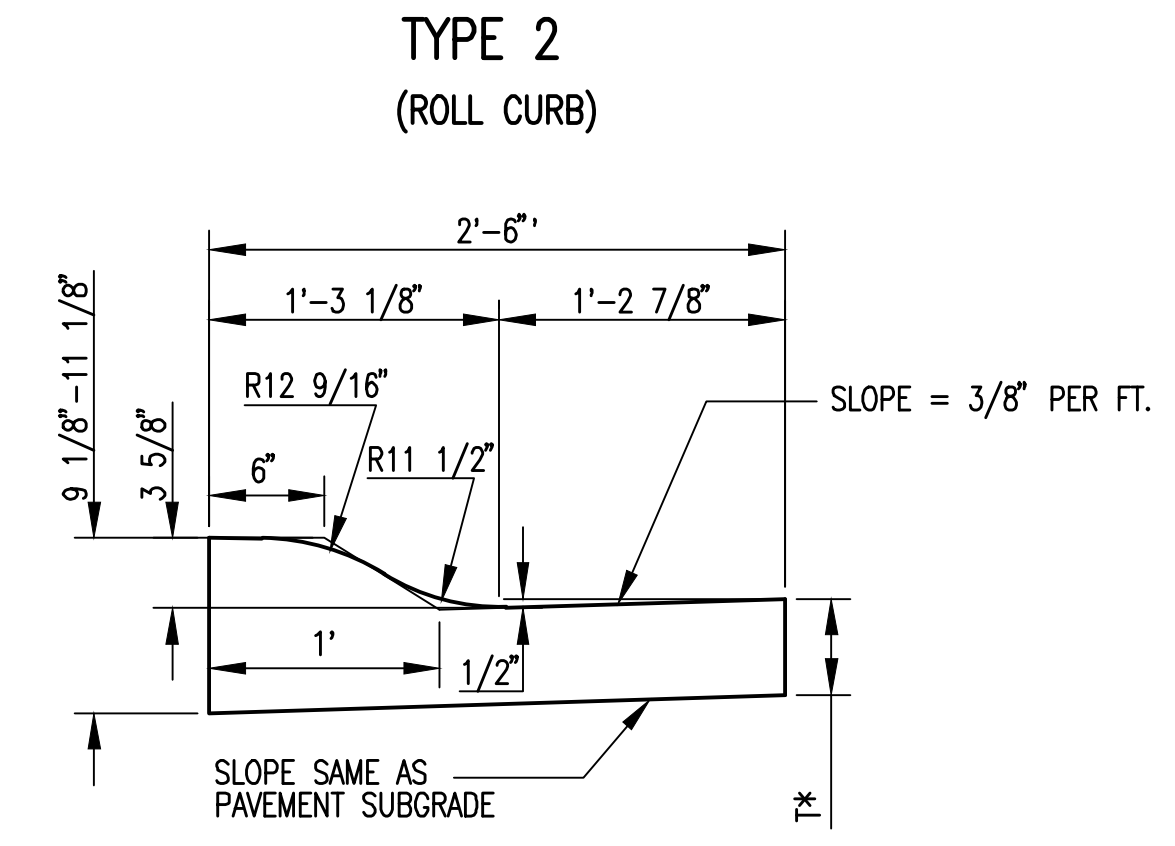
		Revision By Date	
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS VALLEY GUTTER DETAILS			
Designed by BMM		Job No. 35-13368-000	
Drawn by BJS		Date September 2013	
		303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec.com	
Sht. 12 of 22		Date September 2013	



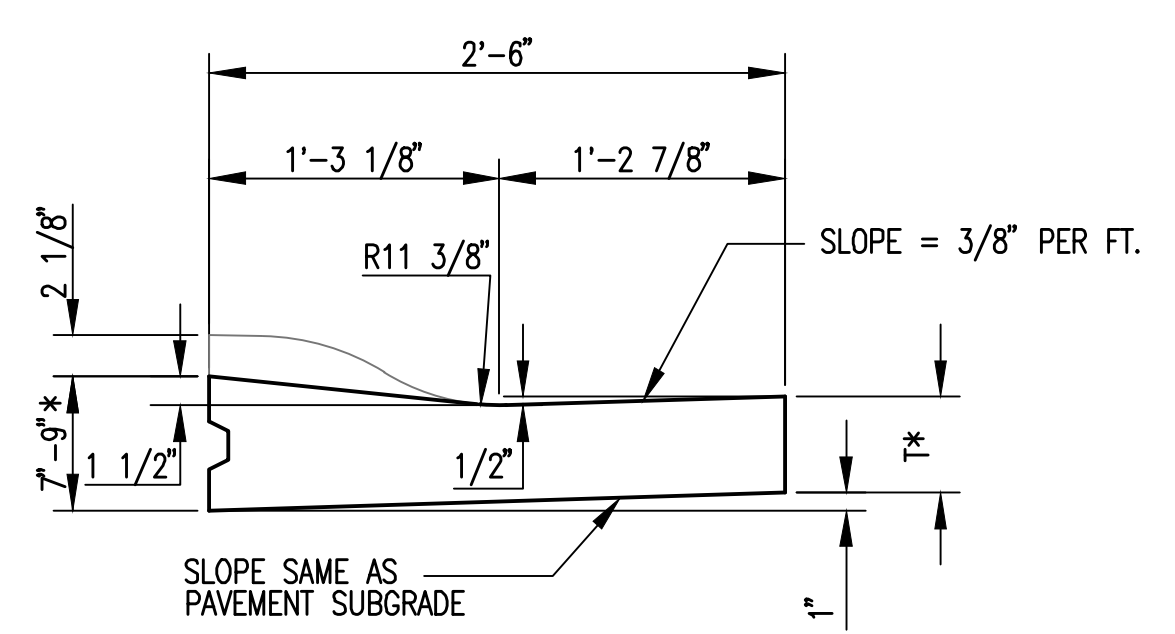
COMBINED CURB & GUTTER (6")



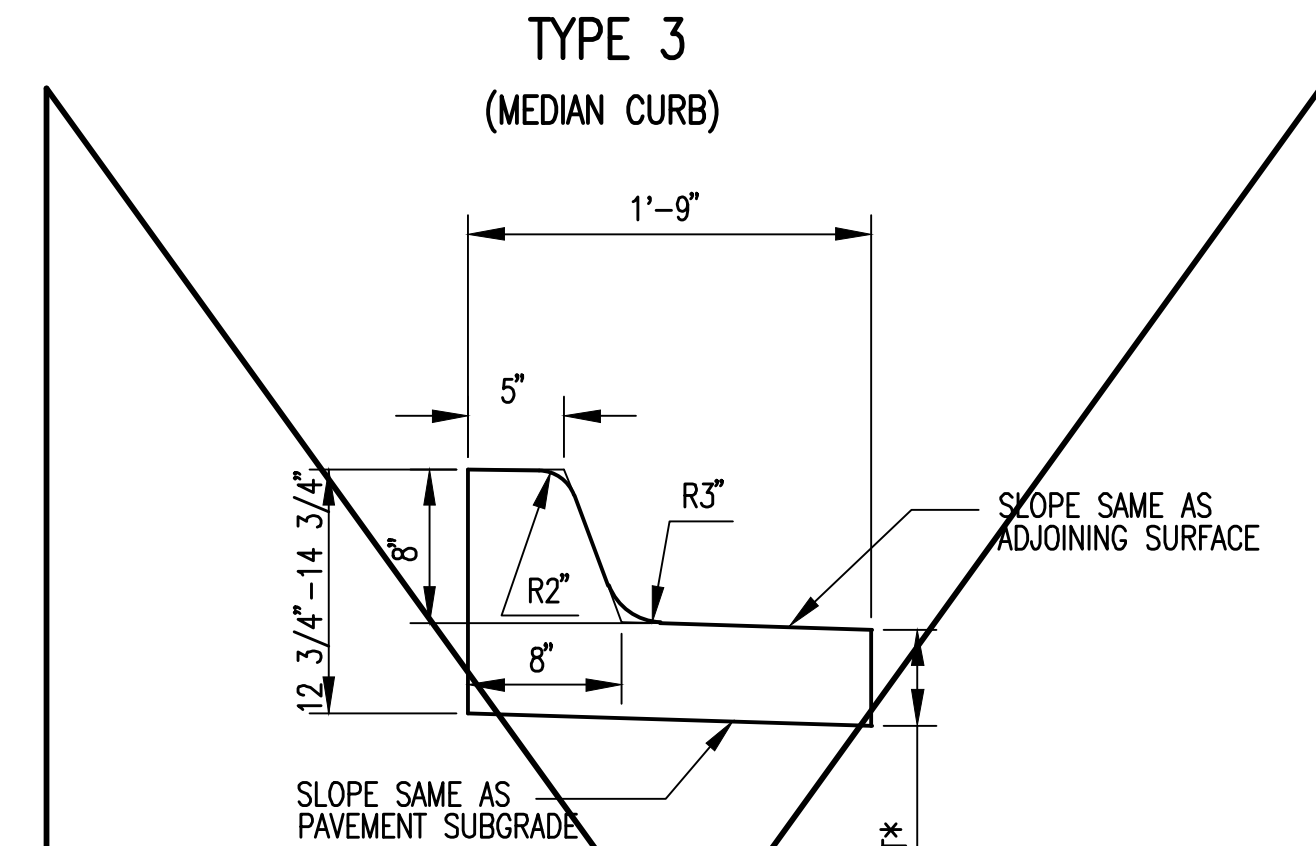
COMBINED CURB & GUTTER (1 1/2")



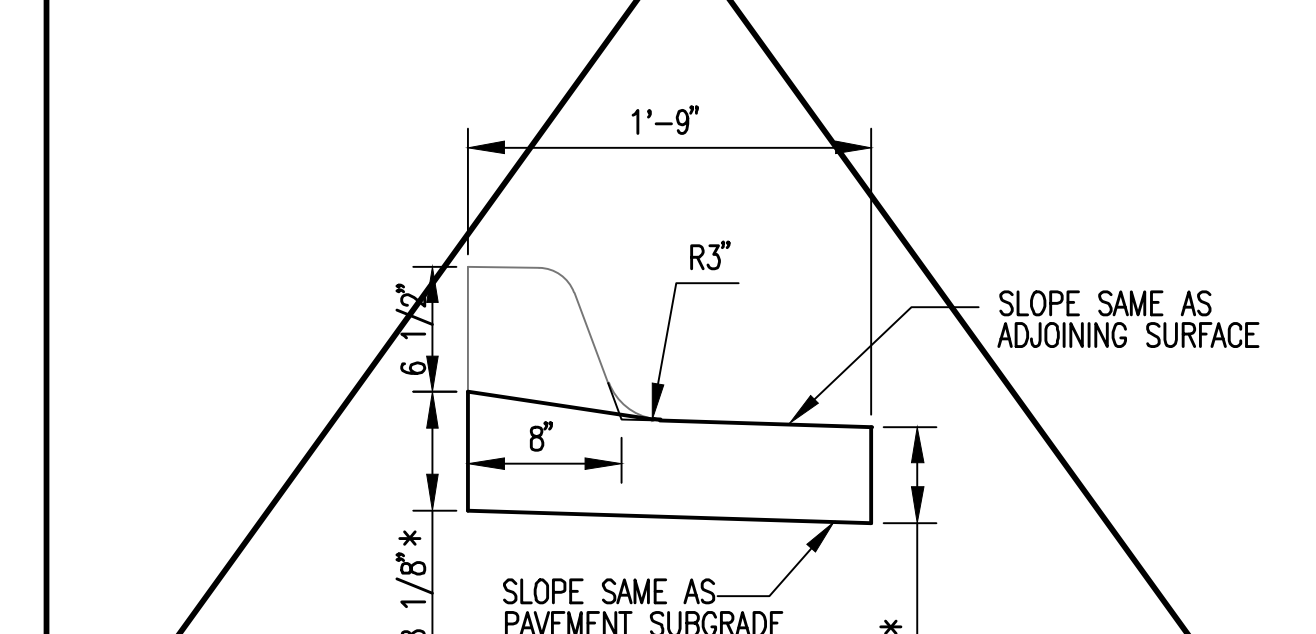
COMBINED CURB & GUTTER (3 5/8")



COMBINED CURB & GUTTER (1 1/2")

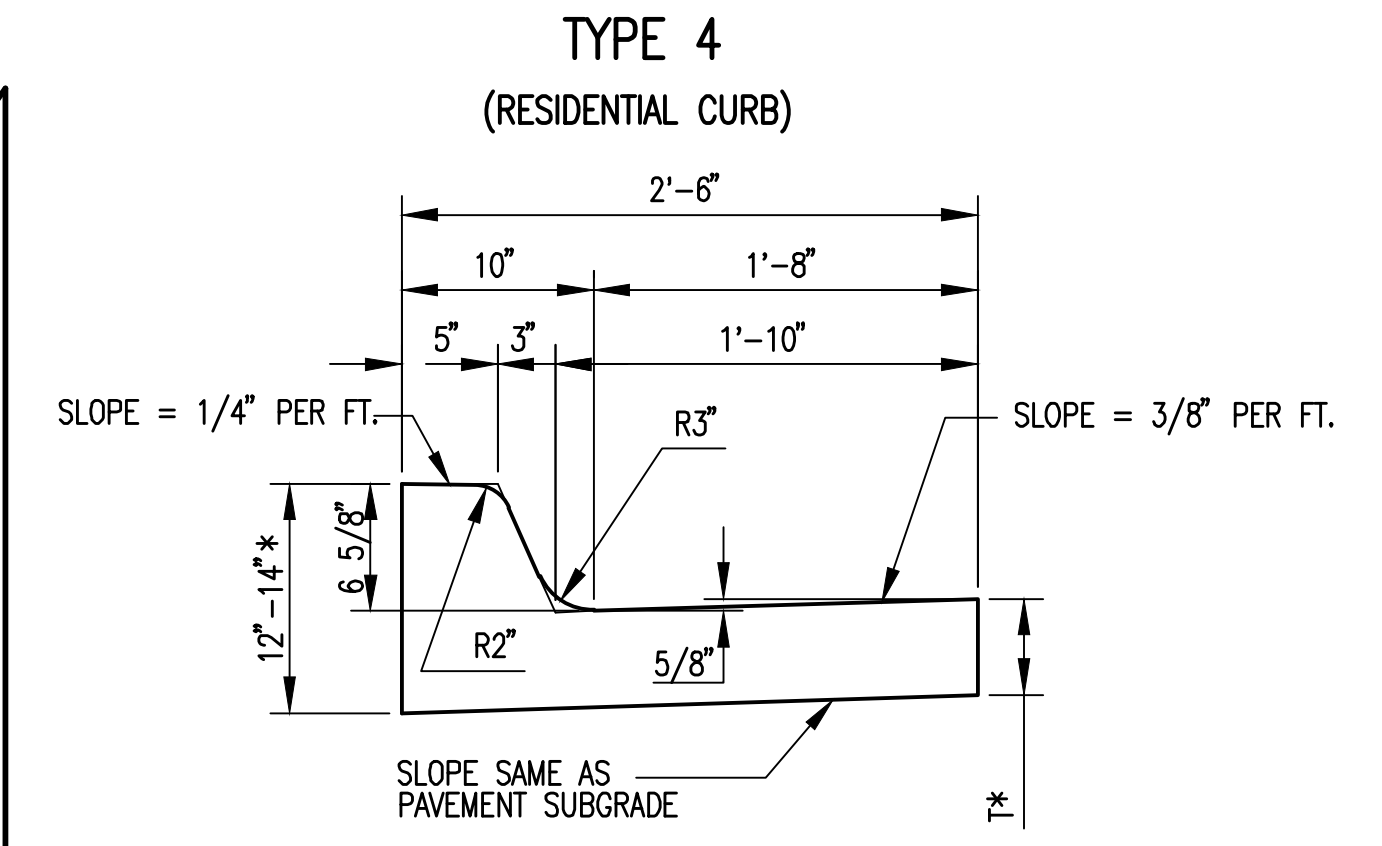


COMBINED CURB & GUTTER (8")

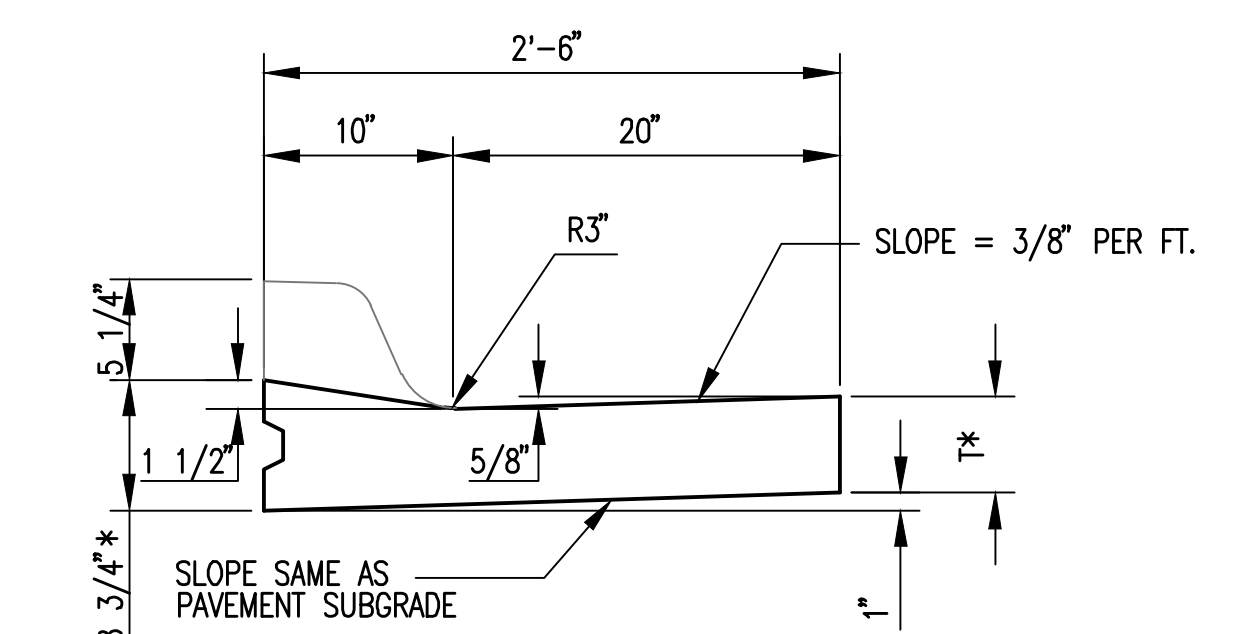


COMBINED CURB & GUTTER (1 1/2")

SEE MISC. PAVING DETAILS SHEET FOR MEDIAN CURB AND GUTTER



COMBINED CURB & GUTTER (6 5/8")

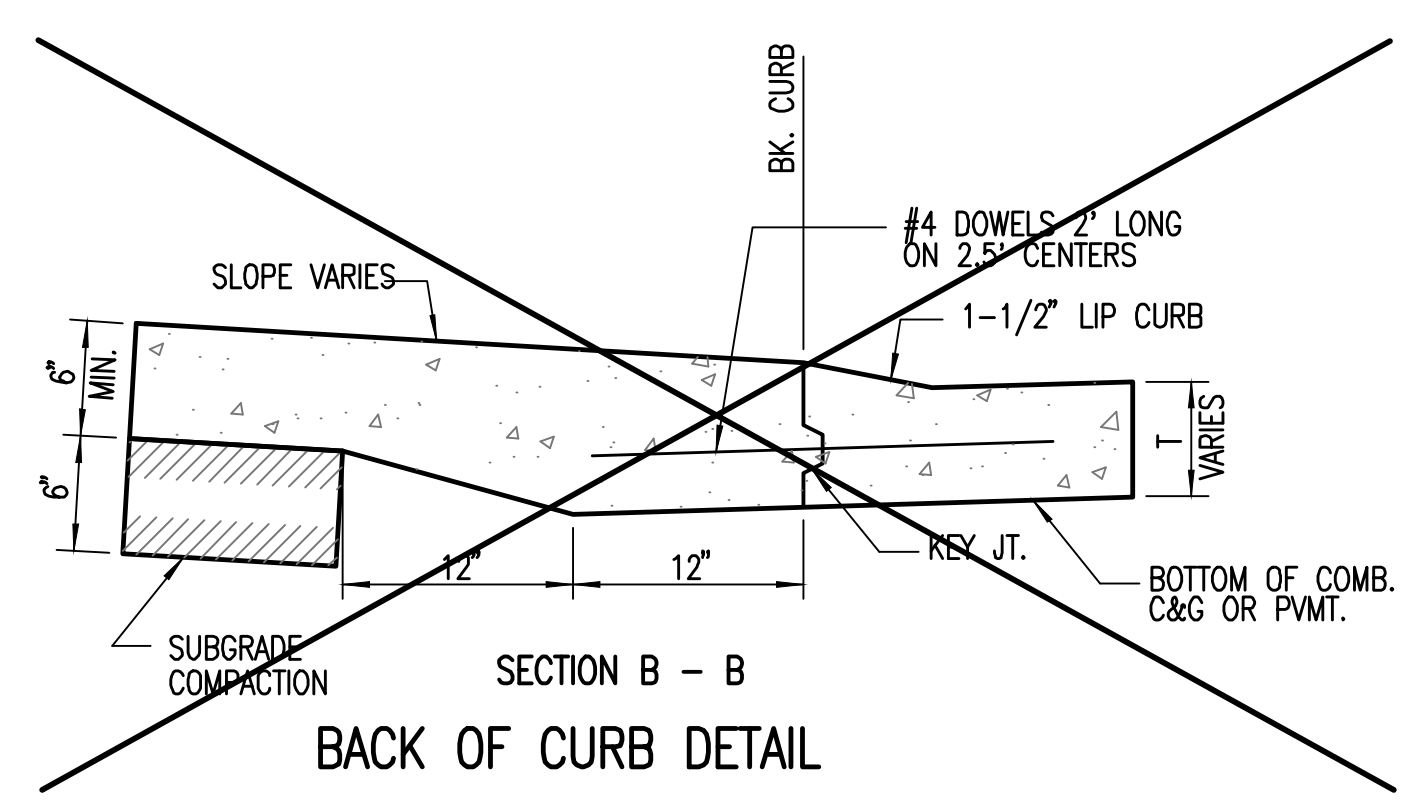


COMBINED CURB & GUTTER (1 1/2")

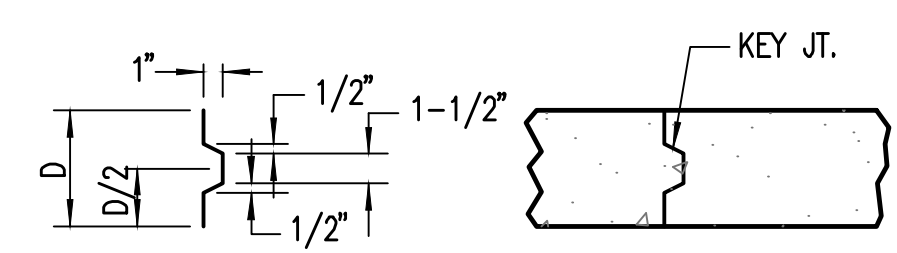
T* = THICKNESS OF CURB TO ADJUST WITH PAVEMENT THICKNESS

GENERAL NOTES

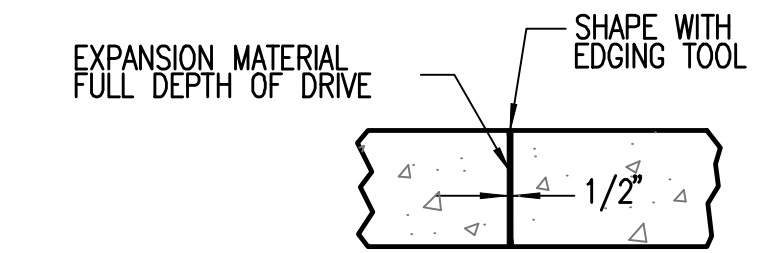
1. EXPANSION (ISOLATION) JOINTS SHALL BE CONSTRUCTED A MAXIMUM OF 300' APART AND AT ALL PIS, PCS, CUL-DE-SAC QUADRANTS, AND ENDS OF RETURNS.
2. CONTRACTION JOINTS SHALL BE CONSTRUCTED A MINIMUM OF 12' APART.
3. JOINT SEALER SHALL BE REQUIRED AT ALL JOINTS ON ARTERIAL AND INDUSTRIAL STREETS AND AT INTERSECTIONS ON RESIDENTIAL STREETS.



SEE MISC. PAVING DETAILS SHEET FOR SECTION B-B



ALT. LONGITUDINAL CONSTRUCTION JOINT

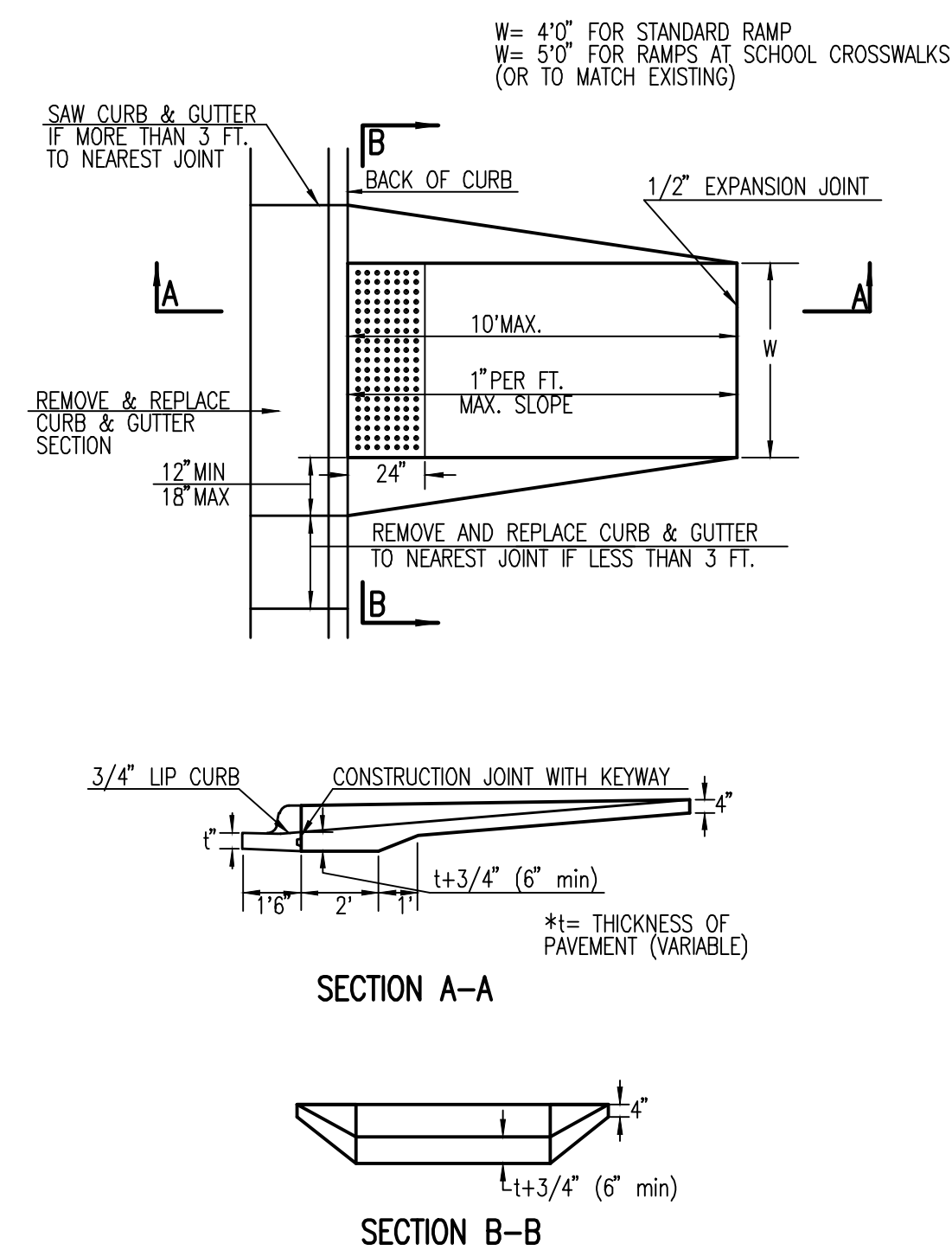


EXPANSION JOINT (E.J.)

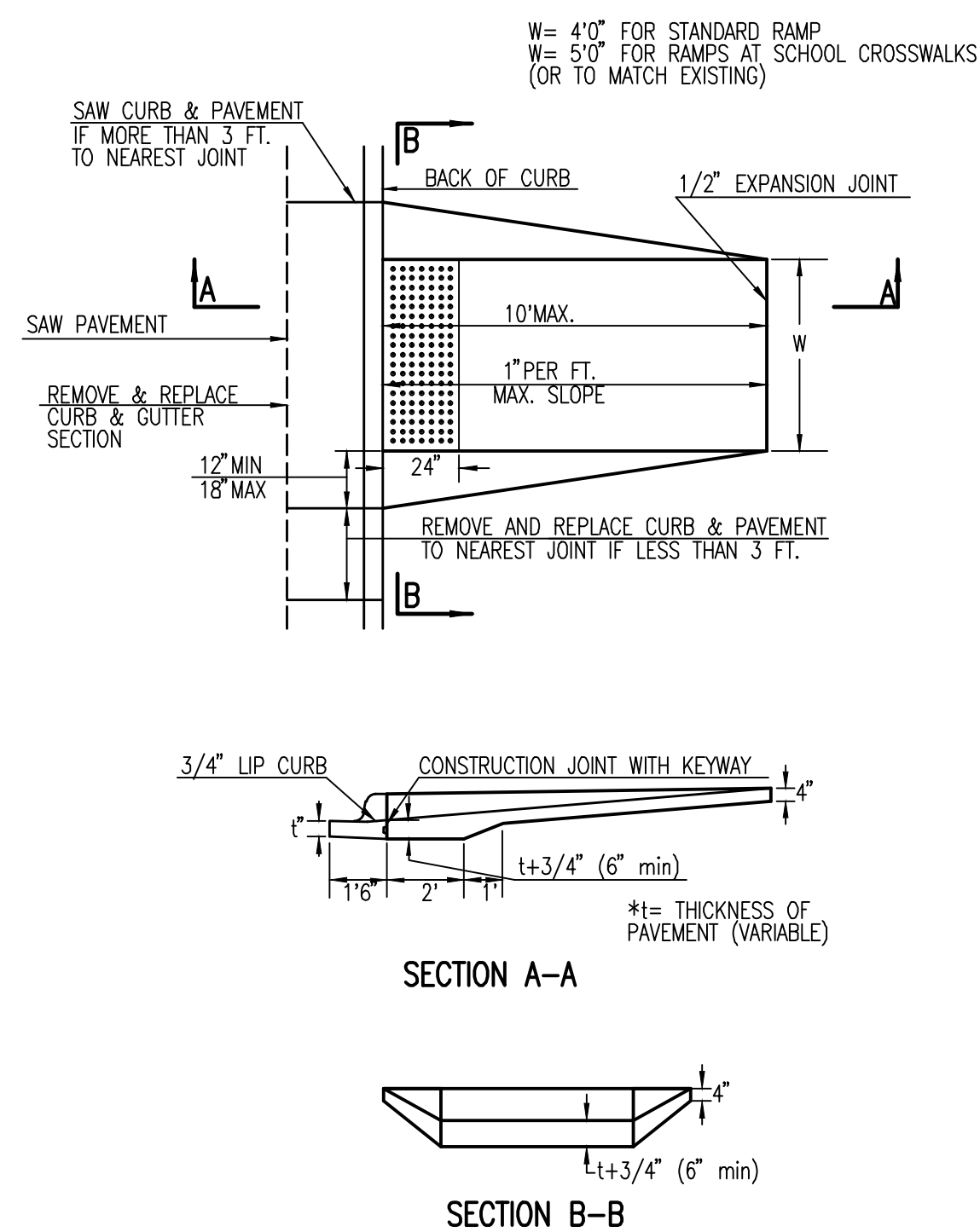
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 Plot Date: 11-02-2014 2:07:19 PM by BJS
 C:\2013\13388\000\13388-000-130-CURB AND GUTTER DETAILS

		CURB & GUTTER DETAILS	
		CITY ENGINEER GARY JANZEN, P.E.	
PROJECT NUMBER	OCA NUMBER	DATE	
231 PPP	607879	12/2010	
CITY ENGINEER'S OFFICE		DESIGN	DRAWN
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET	
		13 of 22	

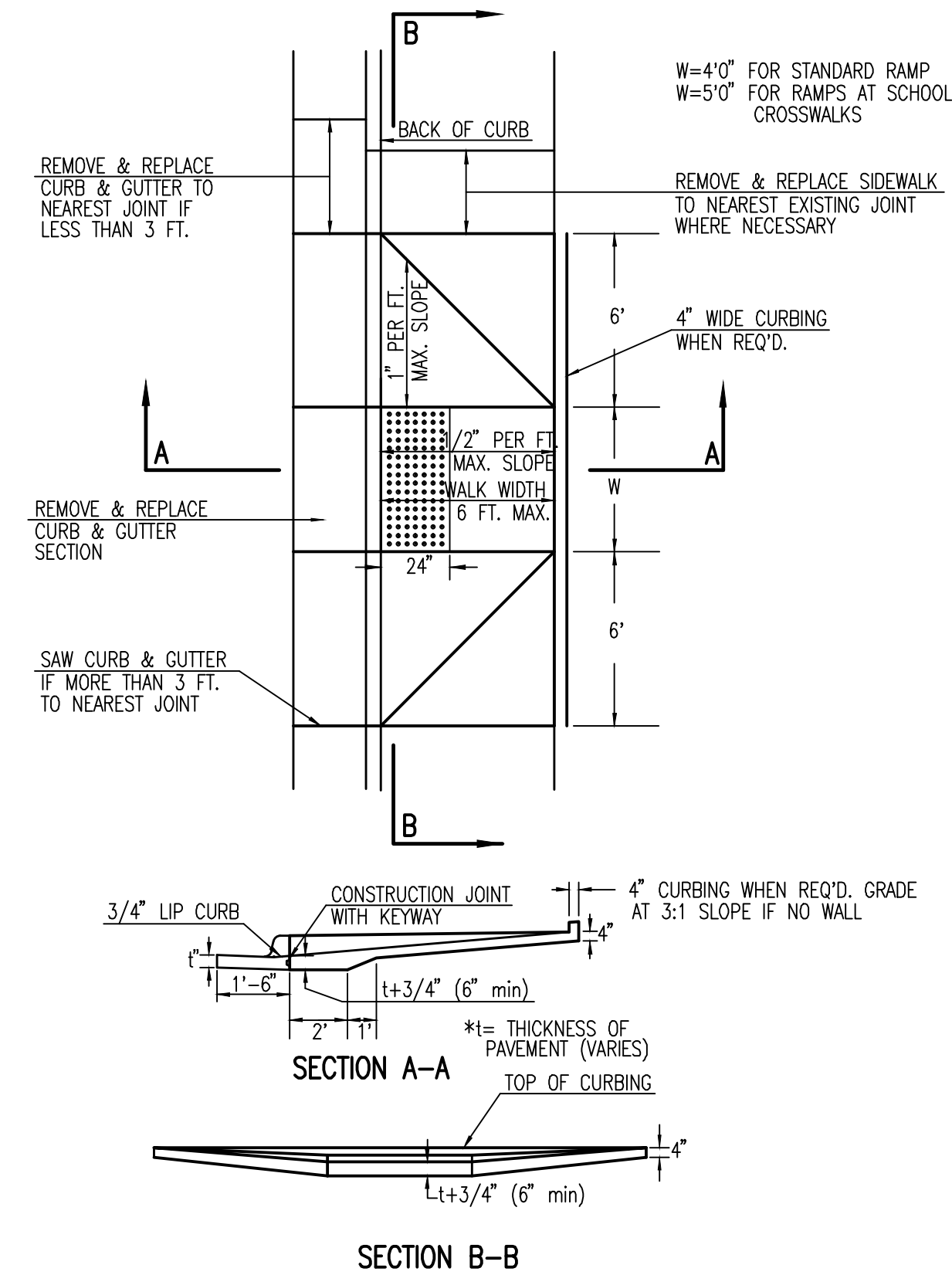
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER (TYPE A)



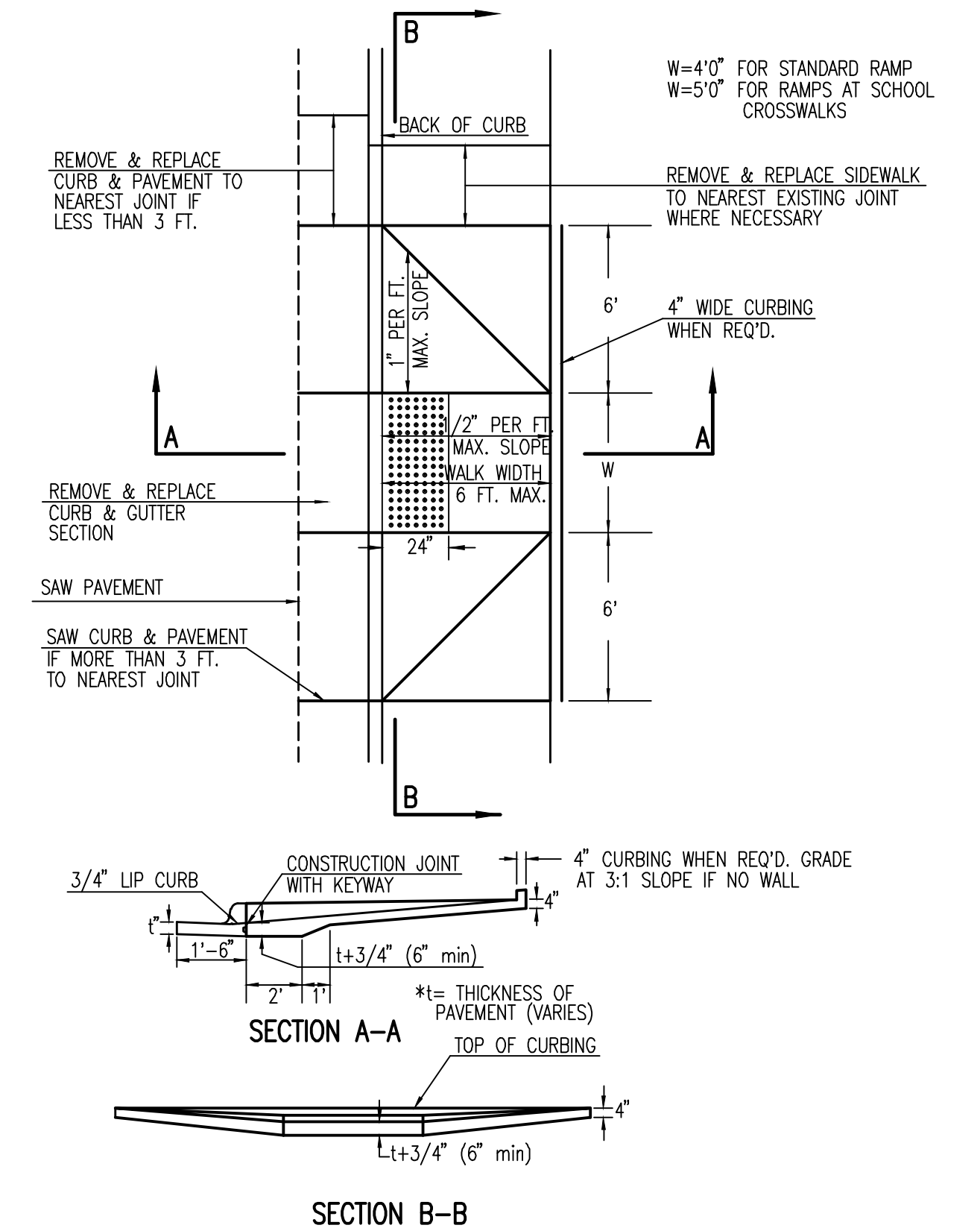
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR CONCRETE STREETS WITH MONOLITHIC CURB (TYPE A)



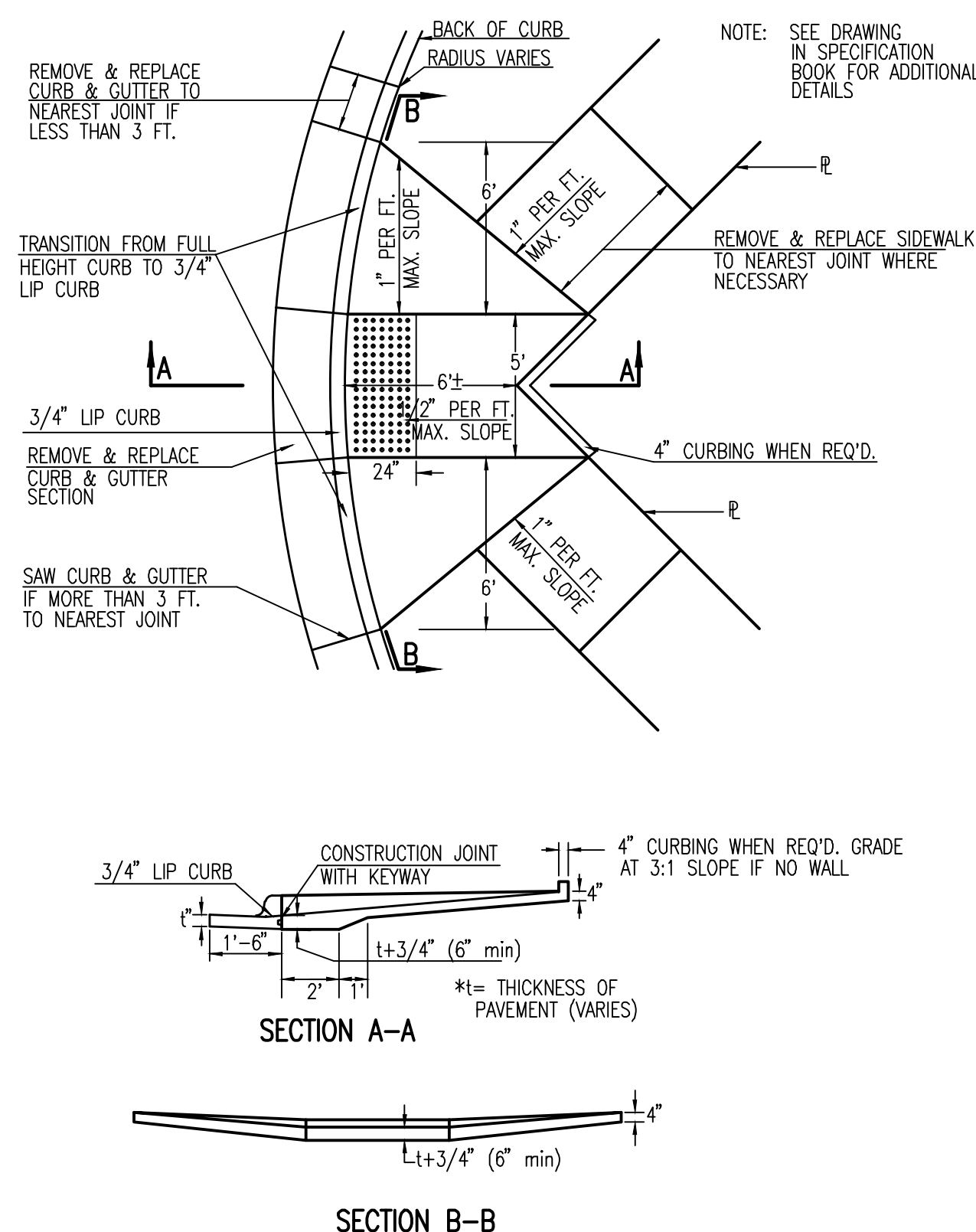
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH COMBINED CURB & GUTTER AND FULL WALK (TYPE B)



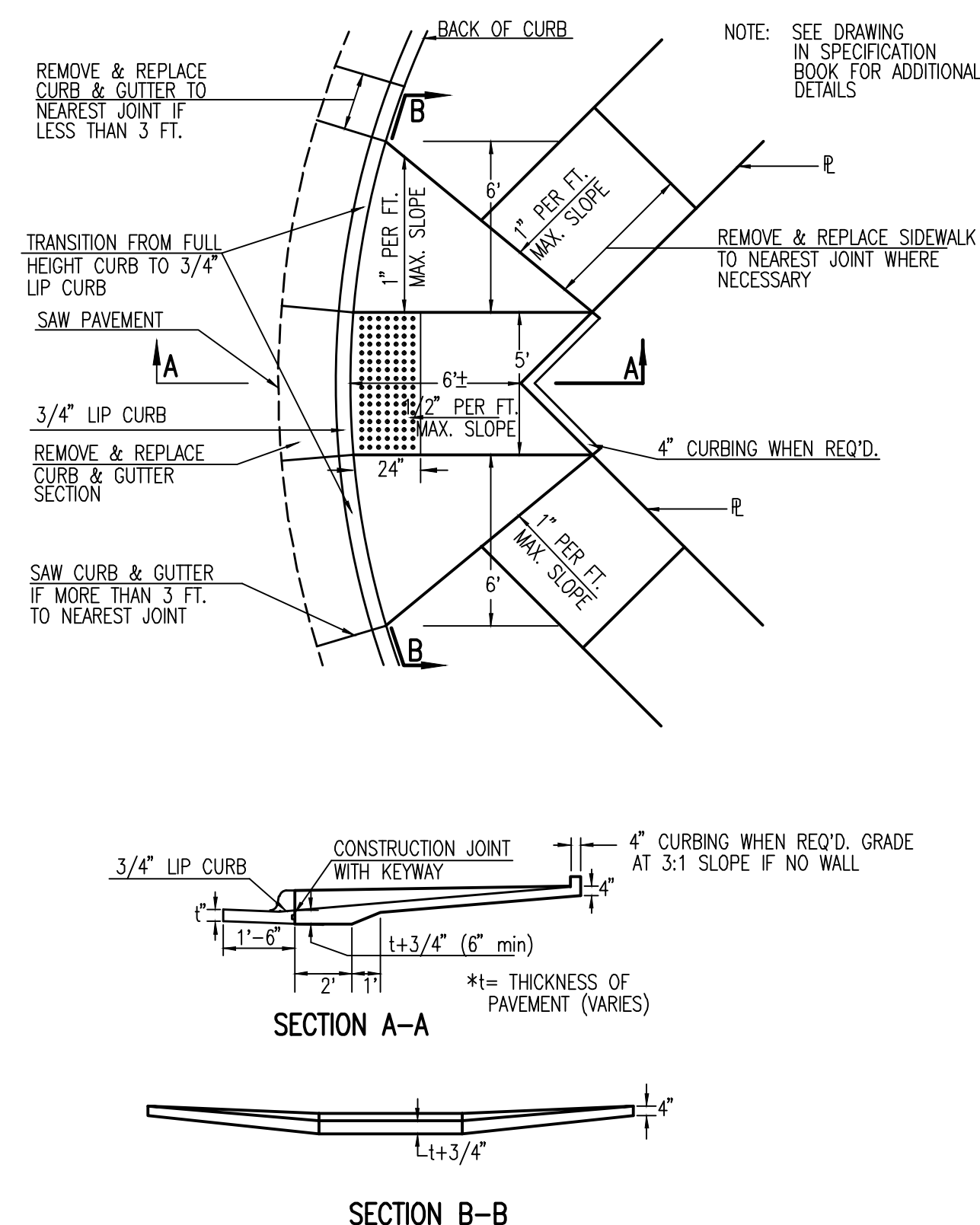
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREETS WITH MONOLITHIC CURB AND FULL WALK (TYPE B)



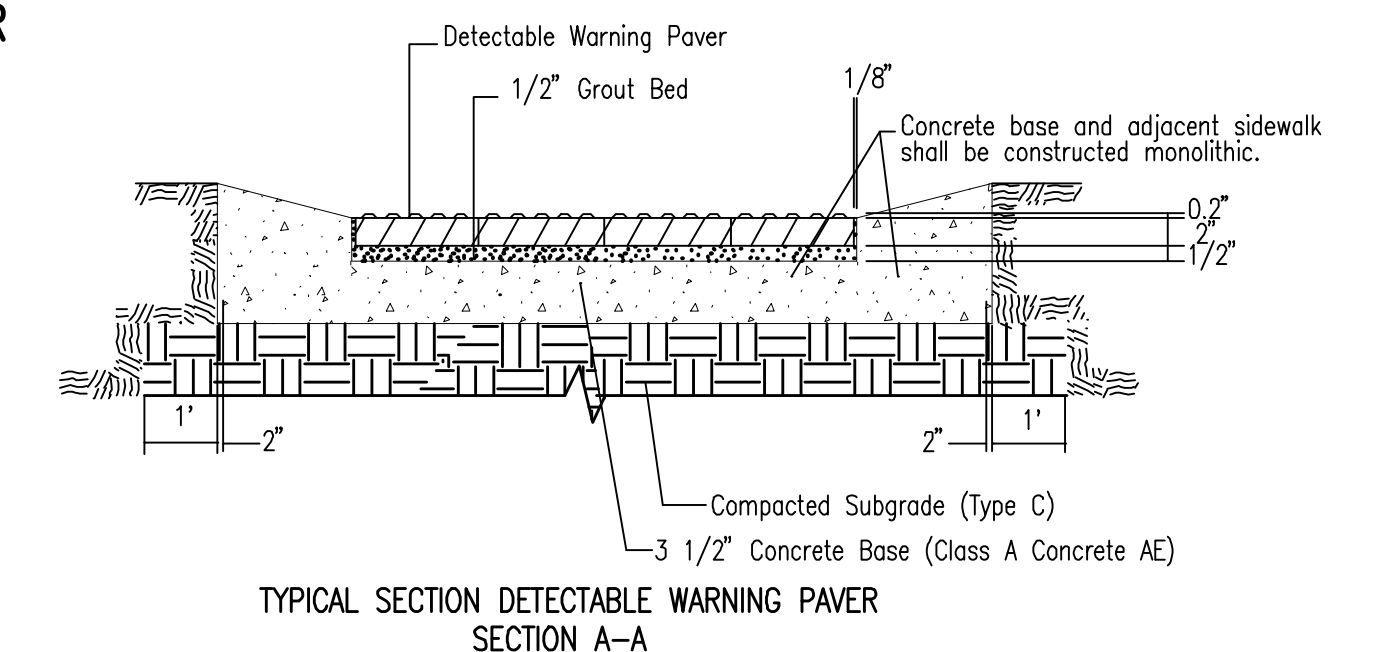
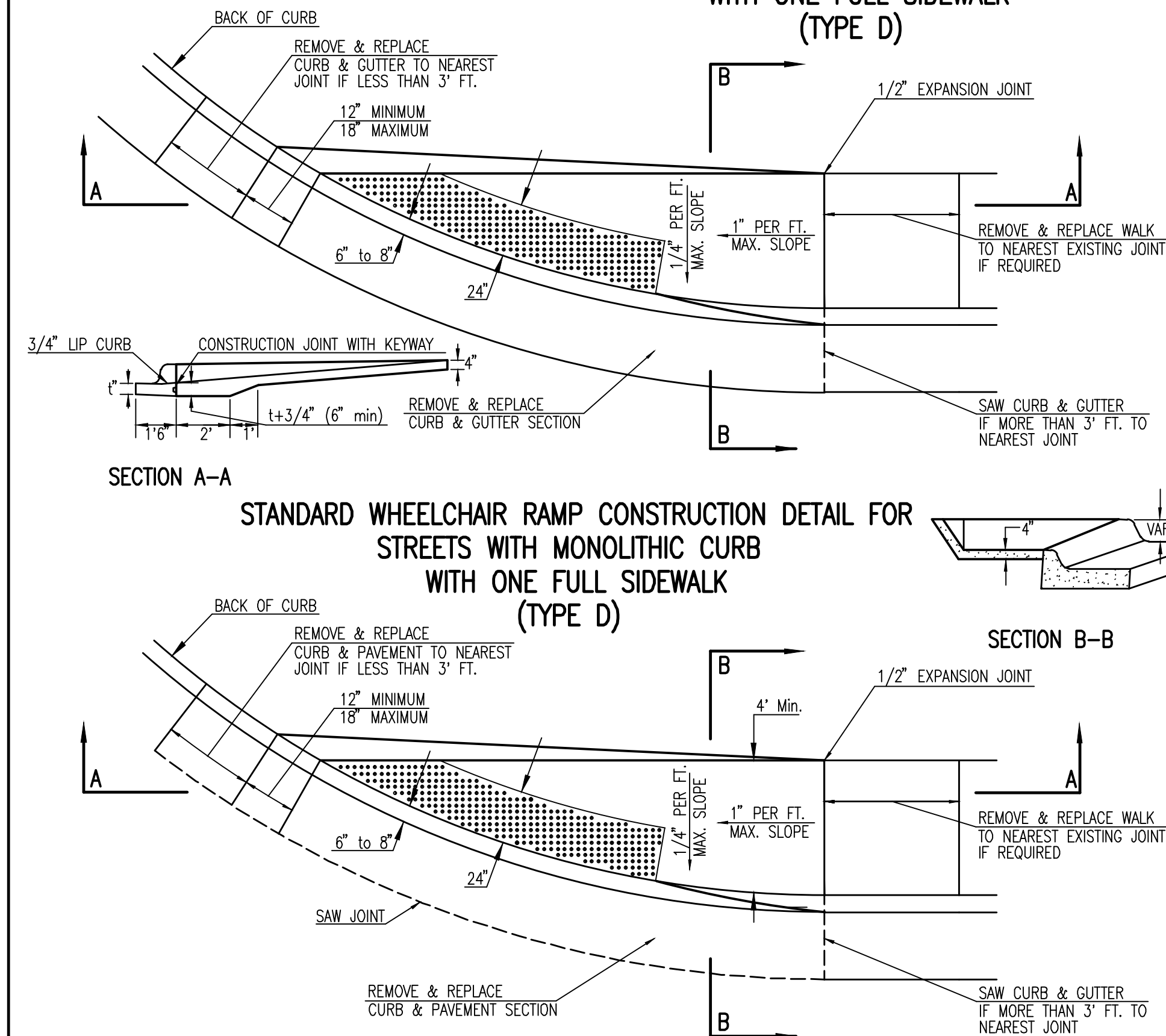
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH COMBINED CURB AND GUTTER ON RADIUS WITH 6± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



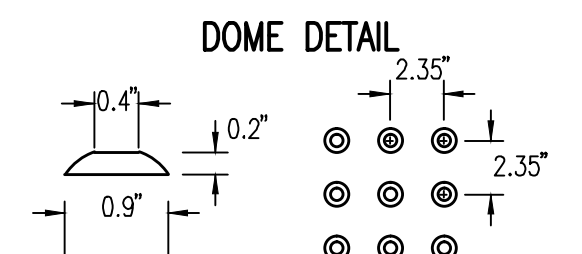
STANDARD WHEELCHAIR RAMP CONSTRUCTION DETAIL FOR STREET WITH MONOLITHIC CURB ON RADIUS WITH 6± FROM BACK OF CURB TO PROPERTY CORNER (TYPE C)



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



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

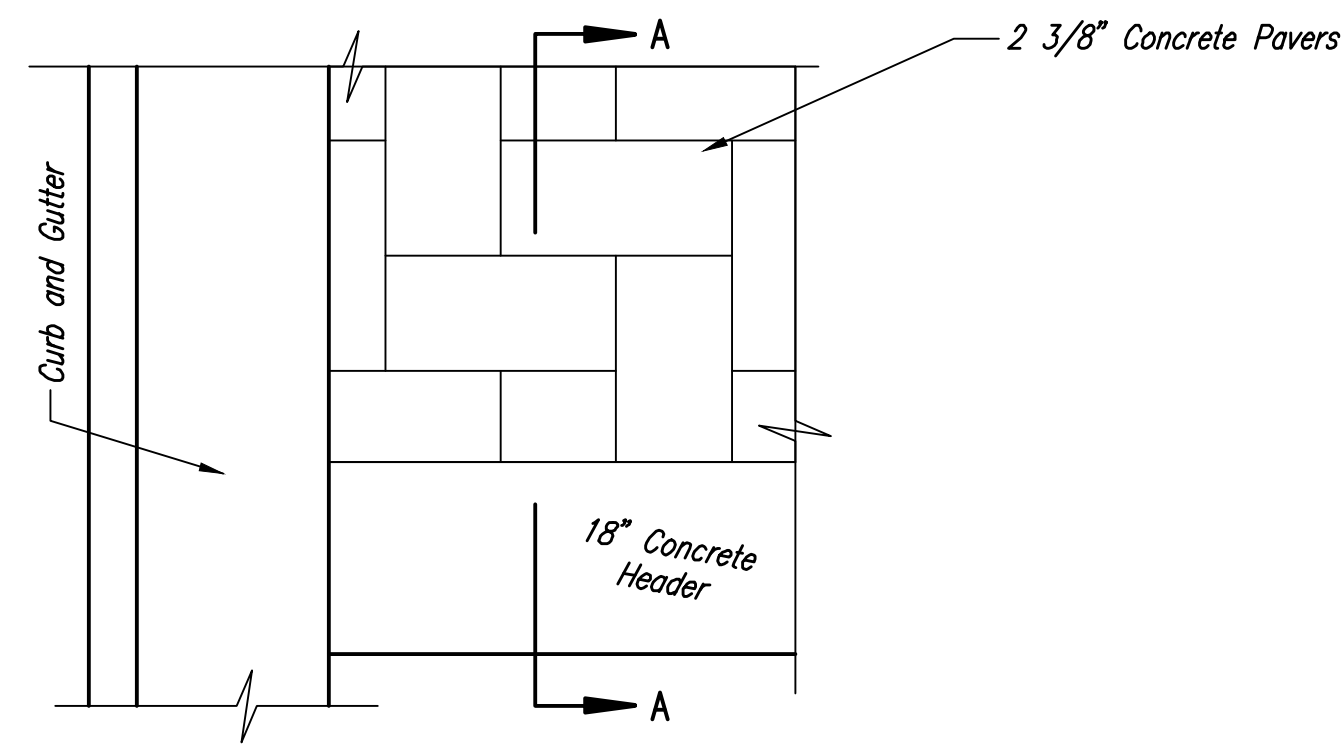


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03/20/13 13388\000\13388-000-14C-WHEELCHAIR RAMP DETAILS

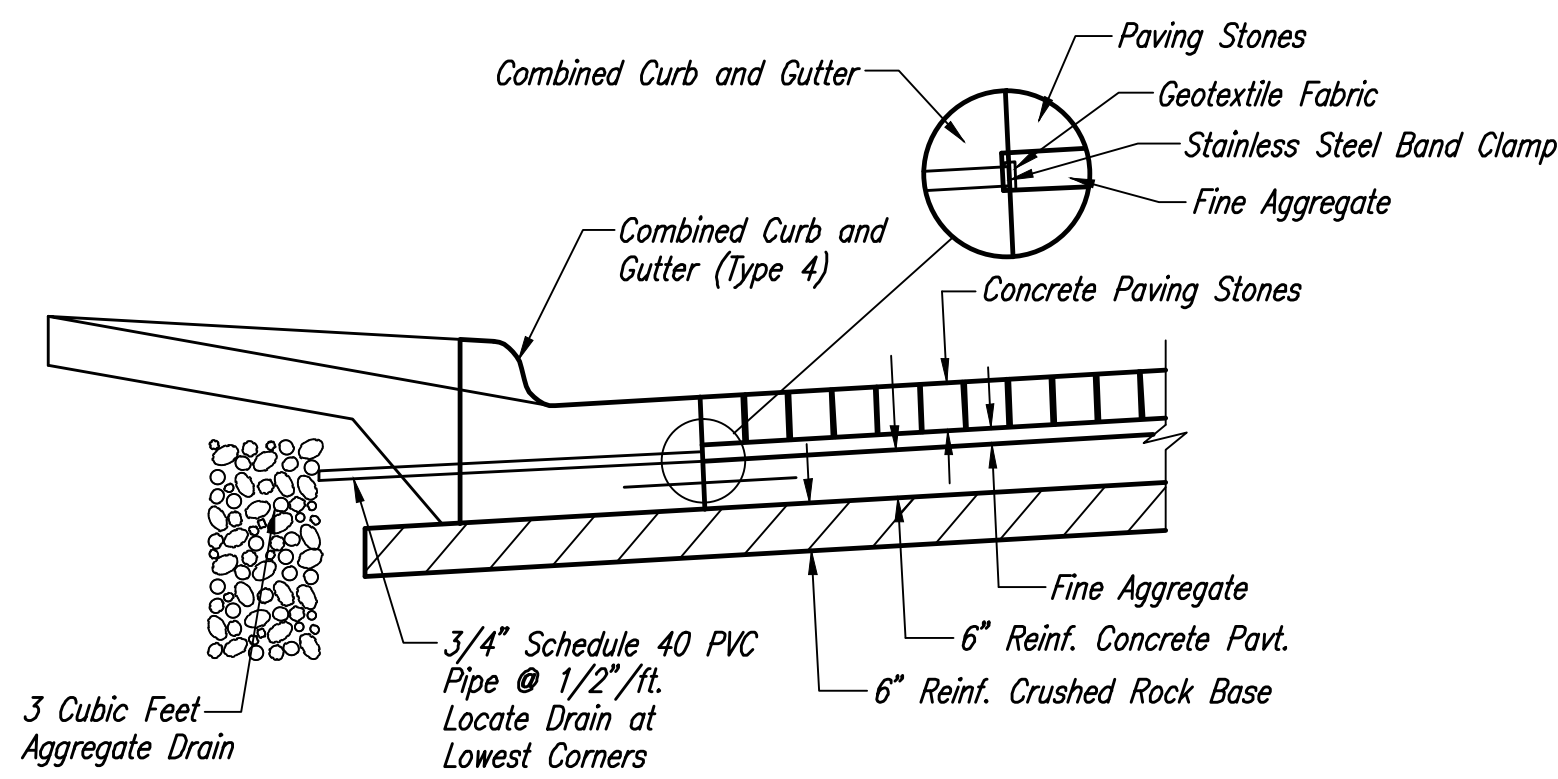


WHEELCHAIR RAMP DETAILS WITH DETECTABLE WARNING

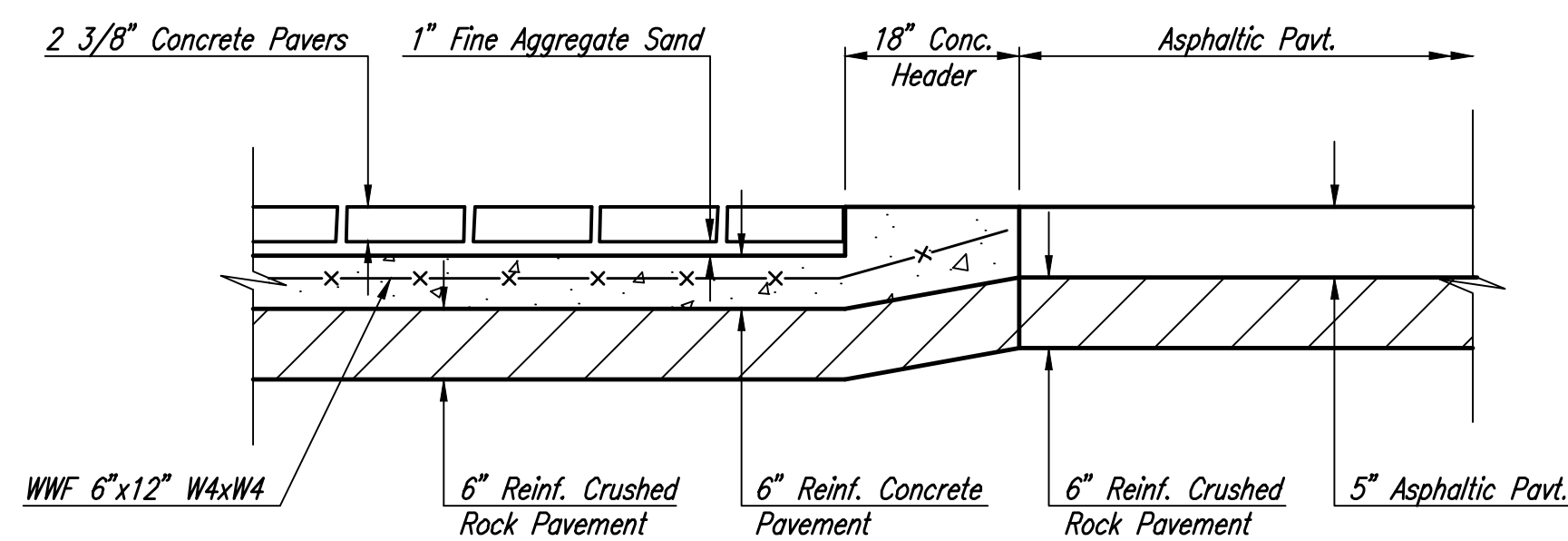
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 231 PPP	OCA NUMBER 607879	DATE 08/2013
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		
DESIGN	DRAWN	SHEET
		14 of 22



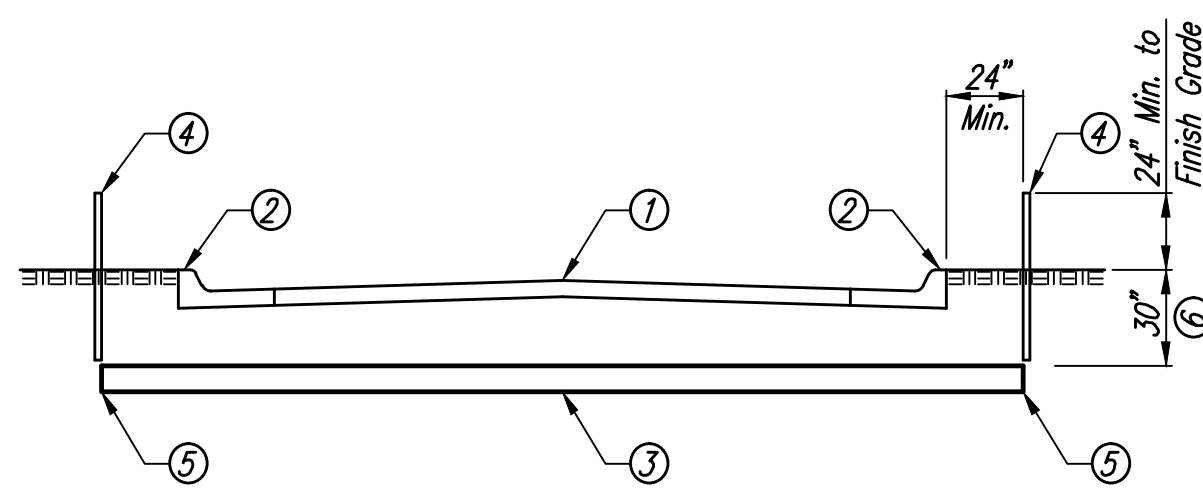
PLAN



BRICK PAVEMENT DRAIN DETAIL
(4 Required)



SECTION A-A THRU CROSS WALK
CROSS WALK DETAILS



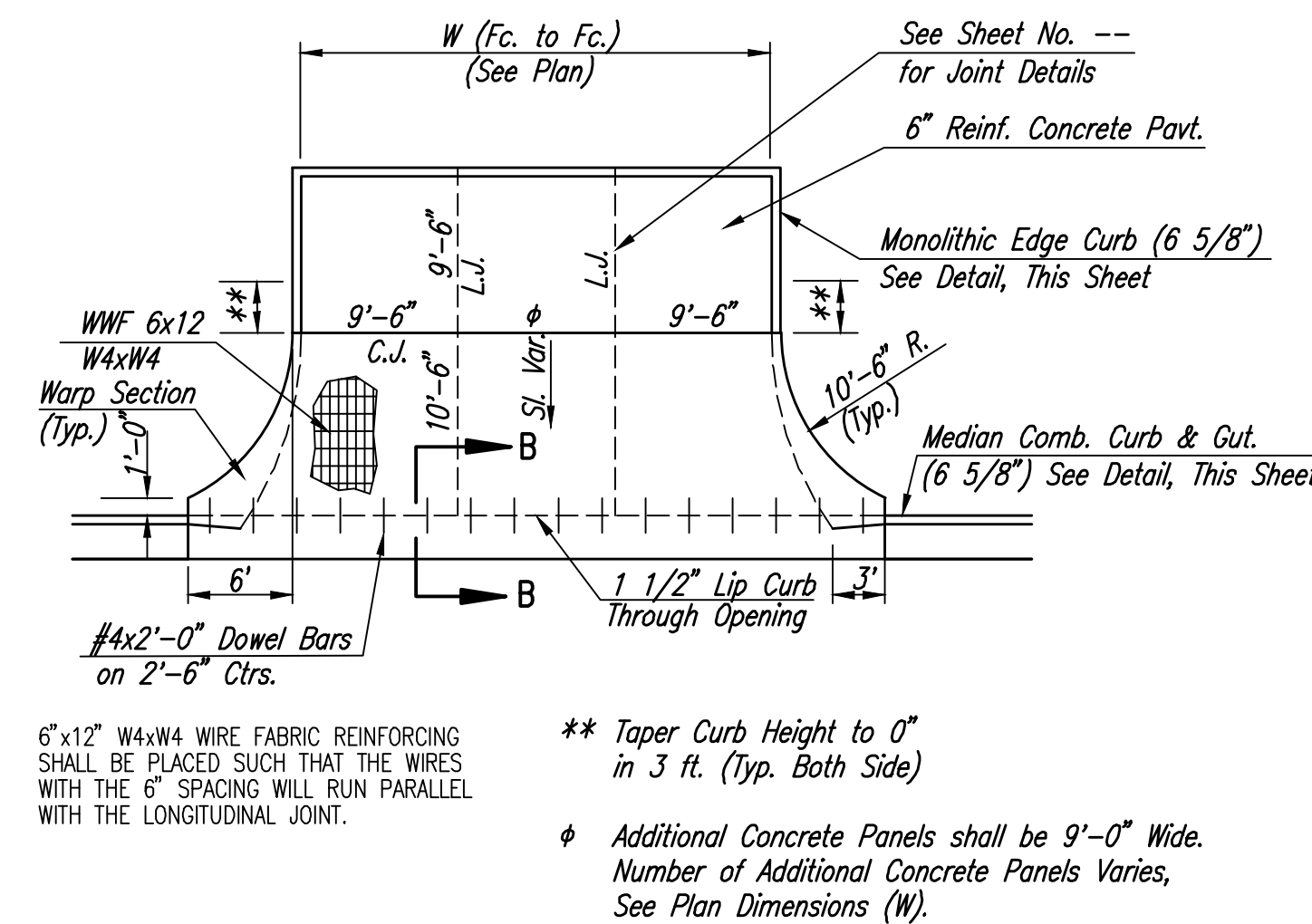
SDR 21 PVC PIPE SLEEVES

Payment for "PVC Sleeves" Shall be Per Each, Regardless of Length, and Shall Include Items 2 thru 5 Listed Below.

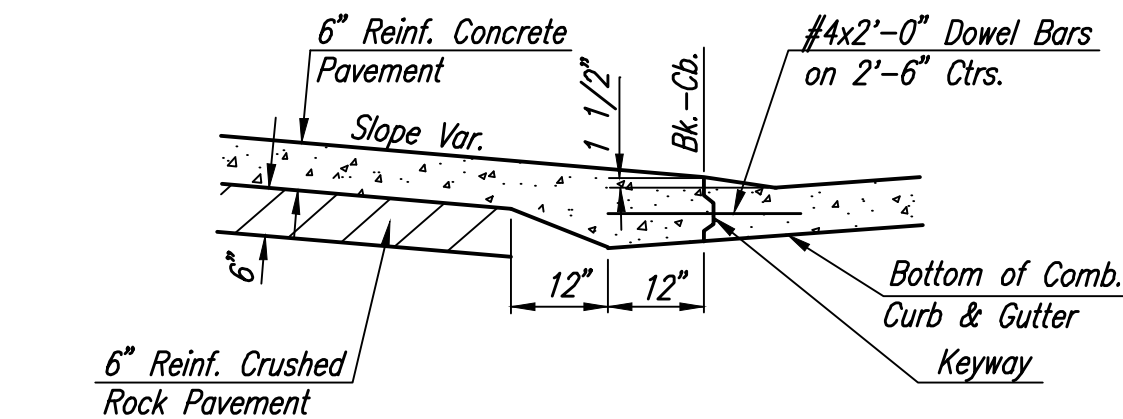
- ① Pavement/Street
- ② Permanent Mark on Top of Curb, Stamped in Wet Concrete—"x" or "s"
- ③ 8" SDR 21 PVC Pipe Sleeve Extended 2" Past Back of Curbs. Sleeves Shall be Bedded and Backfilled in Accordance with City of Wichita Specifications for Flexible Sanitary/Storm Sewer Pipe.
- ④ Temporary T-Post Marker, Until Permanent Benchmark is Made in Concrete (2 Total)
- ⑤ 8" PVC Caps-Not Glued (2 Total)
- ⑥ Adjust Depth Where Necessary to Avoid Other Utilities.

**GENERAL NOTES
BRICK PAVEMENT**

1. CONCRETE PAVING BRICK SHALL BE 2 3/8" MIN. THICKNESS AND MEET OR EXCEED ASTM C-936-82. PAVING STONES TO BE "HOLLAND STONE" IN THE ANTIQUE RED COLOR AS MANUFACTURED BY PAVESTONE CO., OR APPROVED EQUAL. STONES SHALL BE LAID IN A HERRINGBONE PATTERN.
2. SAND BEDDING SHALL MEET THE CITY'S REQUIREMENTS FOR FINE AGGREGATE. AN UNCOMPACTED SAND LAYING COURSE SHALL BE SPREAD EVENLY OVER THE AREA TO BE PAVED AND THEN SCREEDED TO A LEVEL OF APPROXIMATELY 1" THICKNESS. ONCE SCREEDED AND LEVELED TO THE DESIRED ELEVATION, THE SAND LAYING COURSE SHALL NOT BE DISTURBED IN ANY WAY.
3. THE PAVING BRICK SHALL BE INSTALLED PERPENDICULAR AND PARALLEL TO THE MAJOR AXIS OF THE CROSSWALK OR AREA BEING PAVED. STONES SHALL BE PLACED WITH THE CHAMFERED SIDE UP, AND JOINT SPACES KEPT UNIFORM APPROXIMATELY 1/8" THICK. THE GAPS AT THE EDGE OF THE PAVED SURFACE SHALL BE FILLED WITH STONES CUT TO FIT. CUTTING SHALL BE ACCOMPLISHED TO LEAVE A CLEAN EDGE TOWARD THE TRAFFIC SURFACE, USING A MASONRY SAW. WHENEVER POSSIBLE, NO CUTS SHOULD RESULT WITH A PAVER LESS THAN ONE-THIRD OF ITS ORIGINAL DIMENSION.
4. PAVING BRICK SHALL BE VIBRATED TO THEIR FINAL LEVEL IN THE SAND LAYING COURSE BY TWO OR THREE PASSES OF A VIBRATING COMPACTOR CAPABLE OF 3000 TO 5000 POUNDS COMPACTION FORCE WITH THE SURFACE CLEAN AND JOINTS OPEN.
5. AFTER VIBRATION, CLEAN CONCRETE SAND SHALL BE SPREAD OVER THE PAVING STONE SURFACE, ALLOWED TO DRY, AND VIBRATED INTO JOINTS WITH ADDITIONAL PASSES OF THE PLATE VIBRATOR SO AS TO COMPLETELY FILL THE JOINTS. A LIGHT COATING OF SAND SHALL BE SWEEPED OVER THE COMPLETED SURFACE AND LEFT TO WEATHER IN.
6. PLACEMENT AND COMPACTION OF SAND FOR INSTALLATION OF THE PAVING BRICK IS SUBSIDIARY TO THE PAVING BRICK ITEM. PLACEMENT OF THE 5" REINFORCED CONCRETE PAVEMENT UNDER ALL PAVING BRICK AREAS, INCLUDING THE 18" CONCRETE HEADER AT CROSS WALK SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARDS OF "CONCRETE BRICK PAVERS".

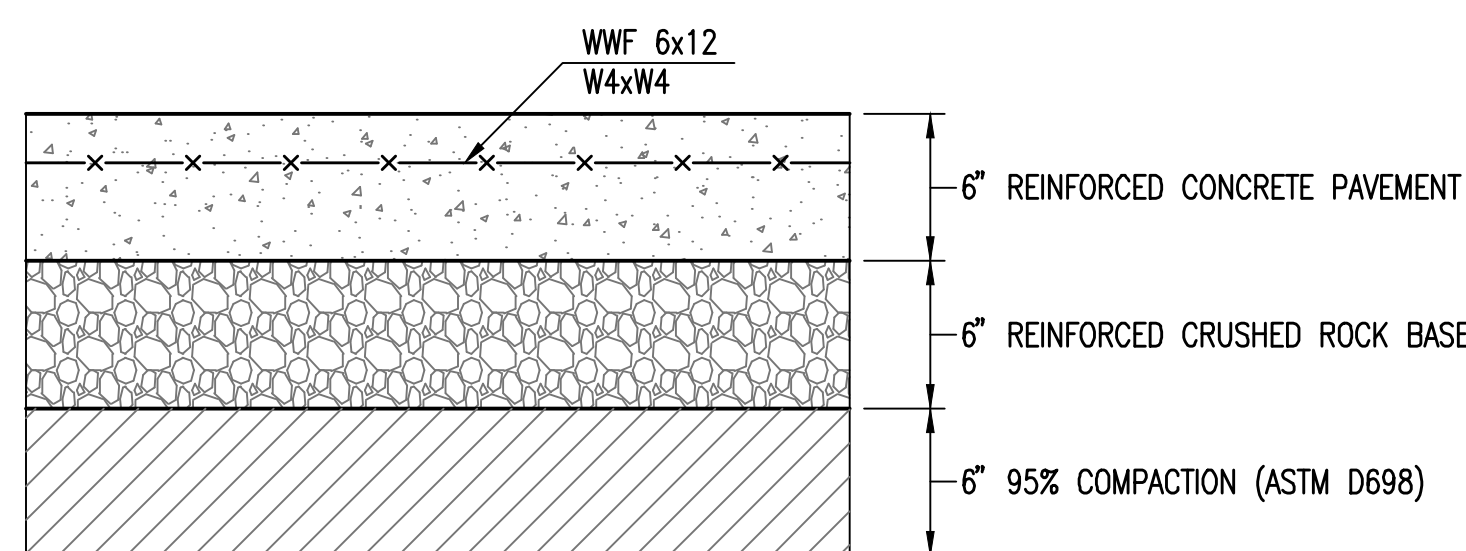


PLAN

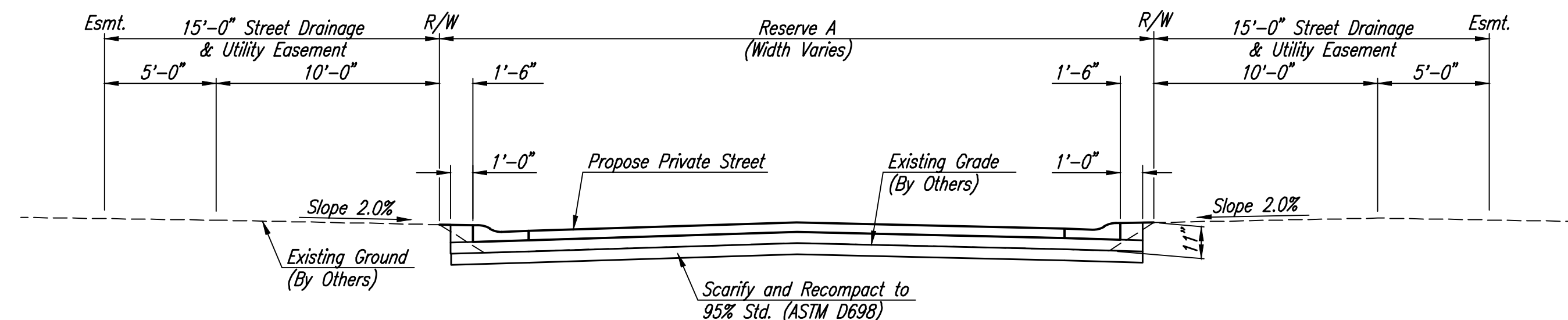


SECTION B-B

PARKING BAY DETAILS



TYPICAL PAVEMENT SECTION
6" Reinf. Conc. Pavt.



RESERVE A TYPICAL SECTION

CRUSHED ROCK GRADATION REQUIREMENTS
PERCENT OF AGGREGATE RETAINED

2-1/2"	0
3/4"	20-60
#4	50-80
#40	80-94
#200	90-98

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS I

GENERAL NOTES

FABRIC BASE REINFORCEMENT SHALL BE BX 1100 GEOGRID AS MANUFACTURED BY TENSAR CORPORATION OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

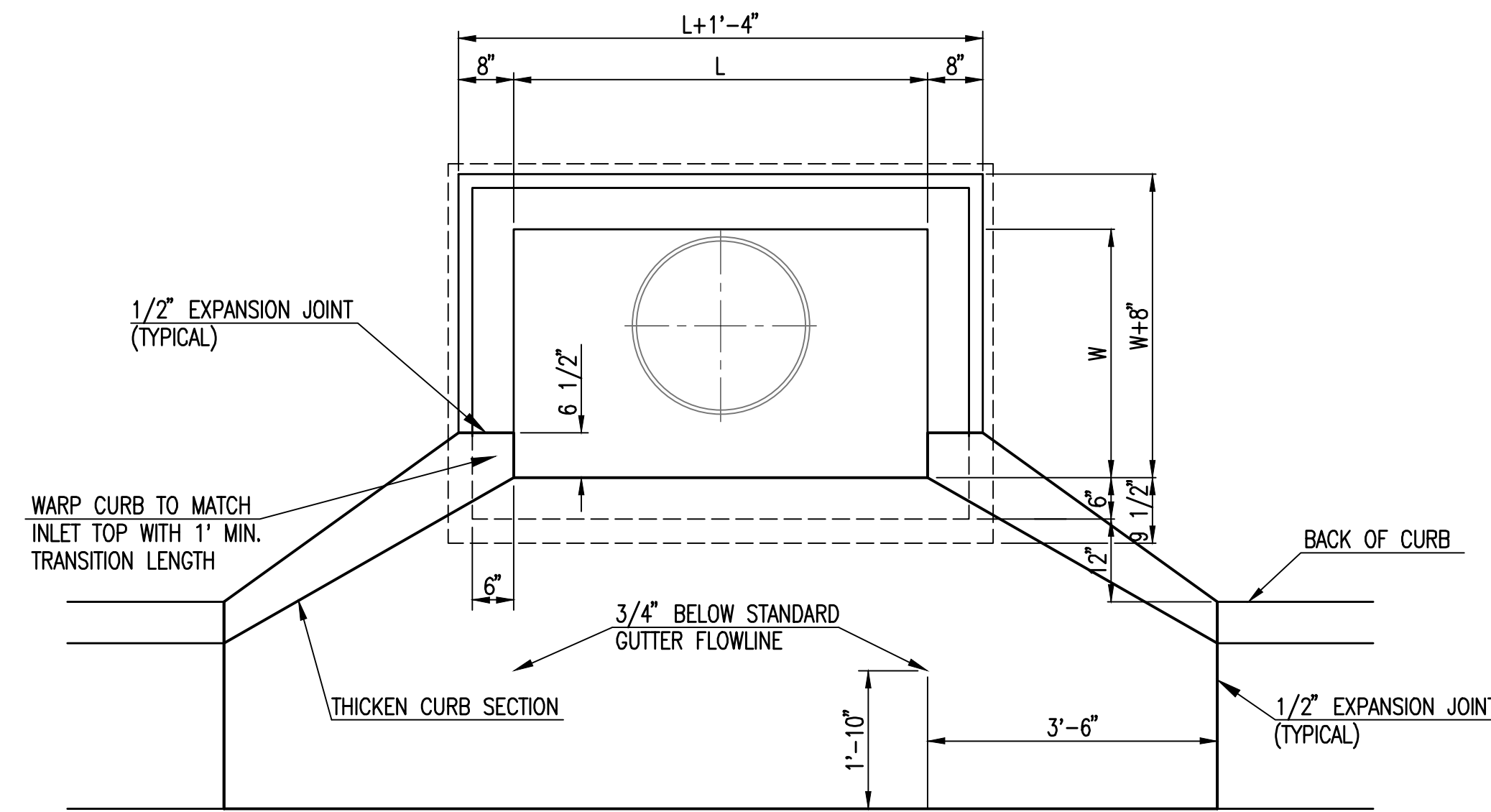
ROCK BASE IS TO BE COMPACTIONED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

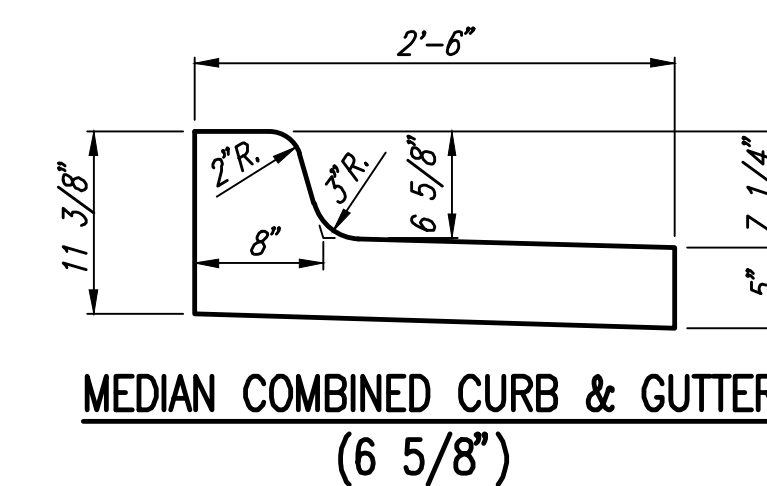
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

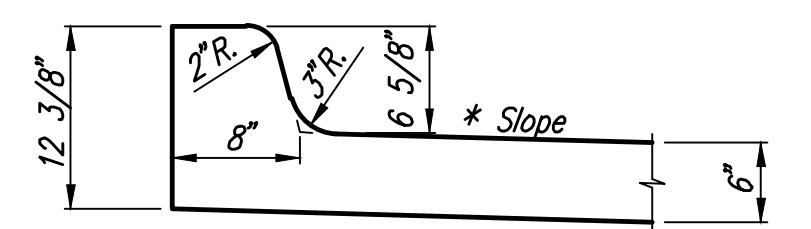
THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF A.C. PAVEMENT 5" (3" BITUMINOUS BASE).



INLET HOOKUP DETAIL

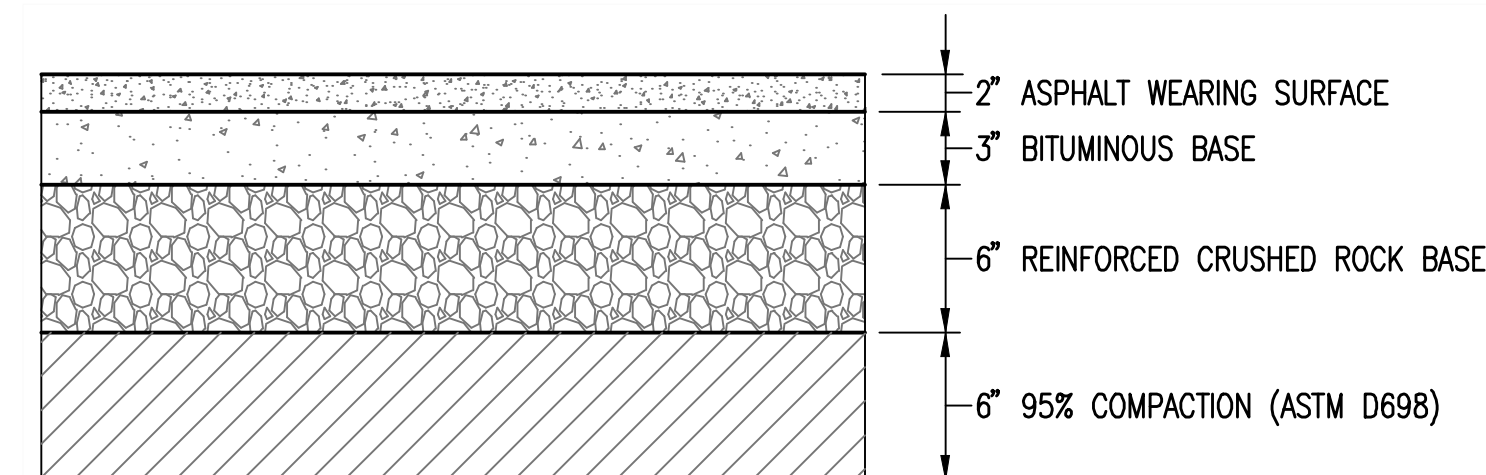


MEDIAN COMBINED CURB & GUTTER
(6 5/8")



MONOLITHIC MEDIAN COMBINED CURB & GUTTER
(6 5/8")

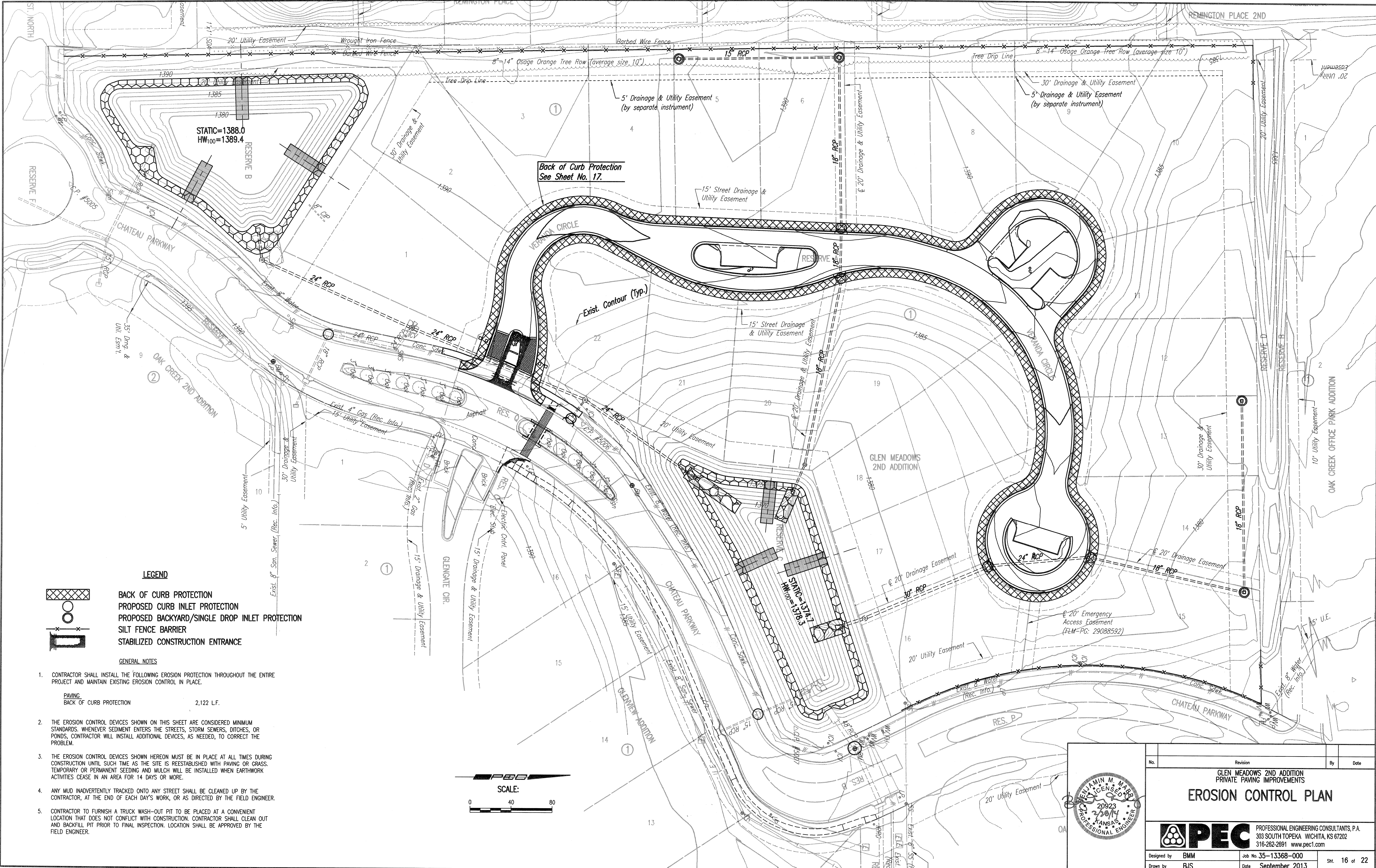
* Slope to Match Adjacent Pavement



TYPICAL PAVEMENT SECTION
5" A.C. Pavement

No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS MISCELLANEOUS PAVING DETAILS			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	BMM	Job No.	35-13368-000
Drawn by	BJS	Date	September 2013
			Sht. 15 of 22

Sowed 02-28-2014 1:27:35 PM by BJS
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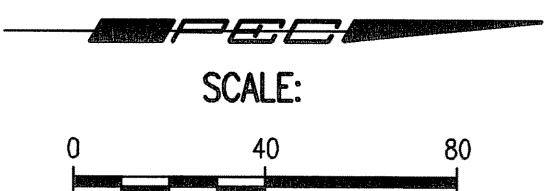


LEGEND

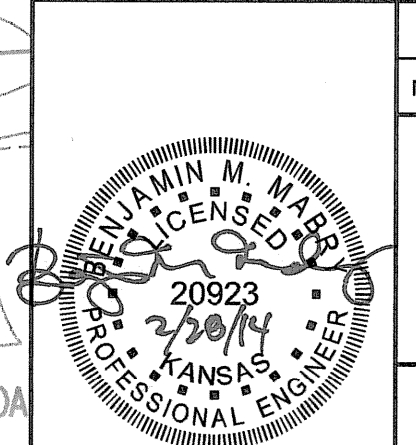
BACK OF CURB PROTECTION
 PROPOSED CURB INLET PROTECTION
 PROPOSED BACKYARD/SINGLE DROP INLET PROTECTION
 SILT FENCE BARRIER
 STABILIZED CONSTRUCTION ENTRANCE

- GENERAL NOTES**
- CONTRACTOR SHALL INSTALL THE FOLLOWING EROSION PROTECTION THROUGHOUT THE ENTIRE PROJECT AND MAINTAIN EXISTING EROSION CONTROL IN PLACE.

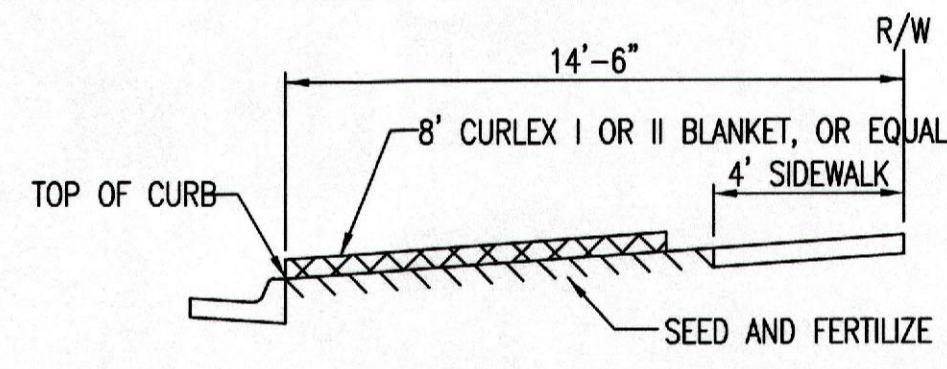
PAVING
BACK OF CURB PROTECTION 2,122 LF.
 - THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED MINIMUM STANDARDS. WHENEVER SEDIMENT ENTERS THE STREETS, STORM SEWERS, DITCHES, OR PONDS, CONTRACTOR WILL INSTALL ADDITIONAL DEVICES, AS NEEDED, TO CORRECT THE PROBLEM.
 - THE EROSION CONTROL DEVICES SHOWN HEREON MUST BE IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL SUCH TIME AS THE SITE IS REESTABLISHED WITH PAVING OR GRASS. TEMPORARY OR PERMANENT SEEDING AND MULCH WILL BE INSTALLED WHEN EARTHWORK ACTIVITIES CEASE IN AN AREA FOR 14 DAYS OR MORE.
 - ANY MUD INADVERTENTLY TRACKED ONTO ANY STREET SHALL BE CLEANED UP BY THE CONTRACTOR, AT THE END OF EACH DAY'S WORK, OR AS DIRECTED BY THE FIELD ENGINEER.
 - CONTRACTOR TO FURNISH A TRUCK WASH-OUT PIT TO BE PLACED AT A CONVENIENT LOCATION THAT DOES NOT CONFLICT WITH CONSTRUCTION. CONTRACTOR SHALL CLEAN OUT AND BACKFILL PIT PRIOR TO FINAL INSPECTION. LOCATION SHALL BE APPROVED BY THE FIELD ENGINEER.



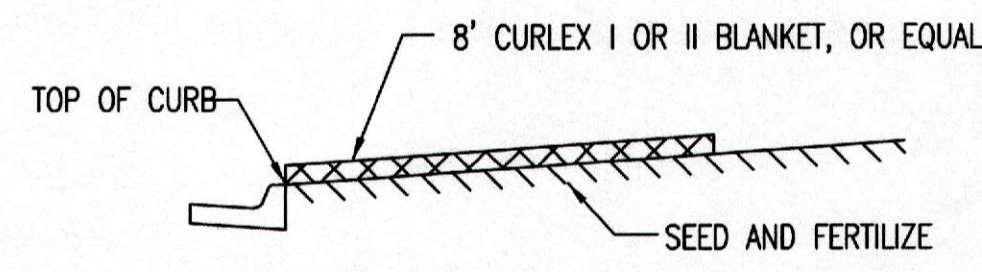
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No.	Revision	By	Date
GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS EROSION CONTROL PLAN			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
Designed by	BMM	Job No.	35-13368-000
Drawn by	BJS	Date	September 2013
			Sht. 16 of 22

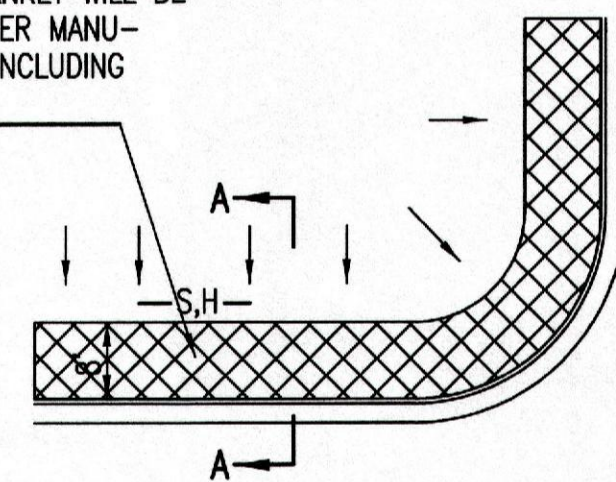


SECTION B-B

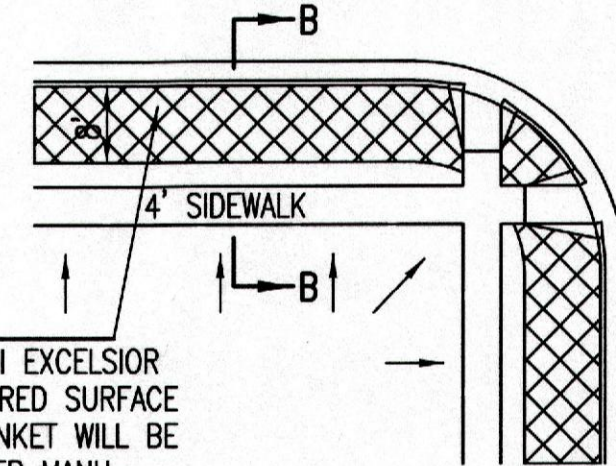


SECTION A-A

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



SOUTH STREET

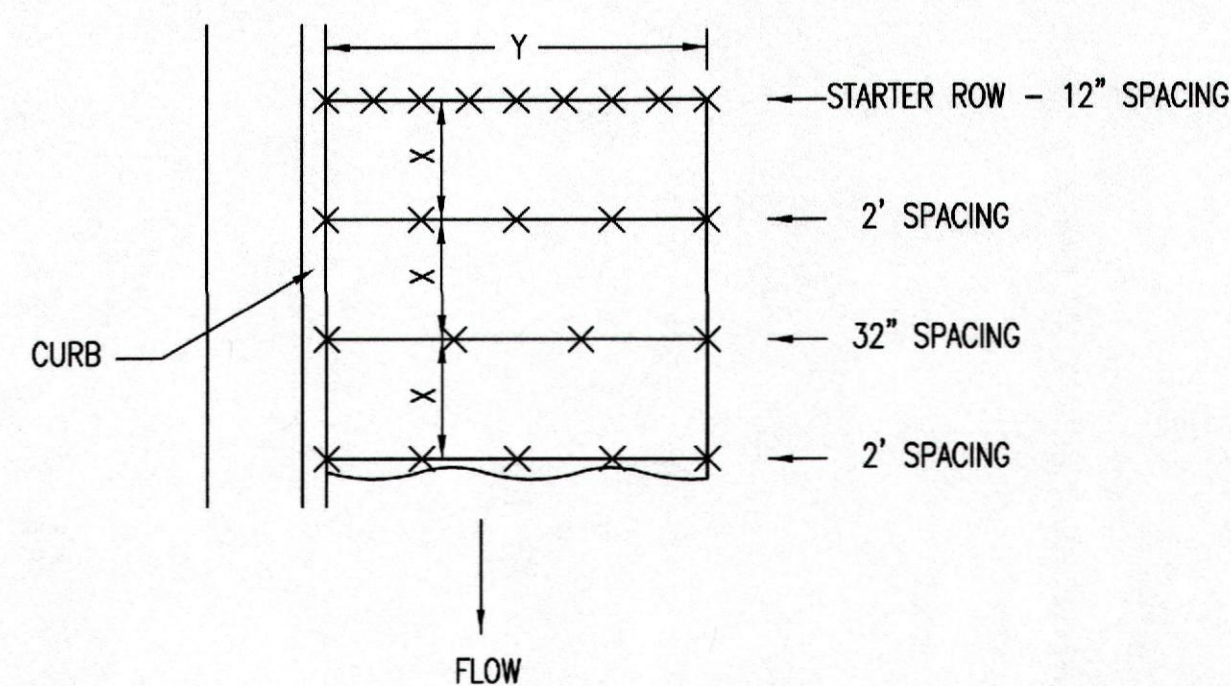


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

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

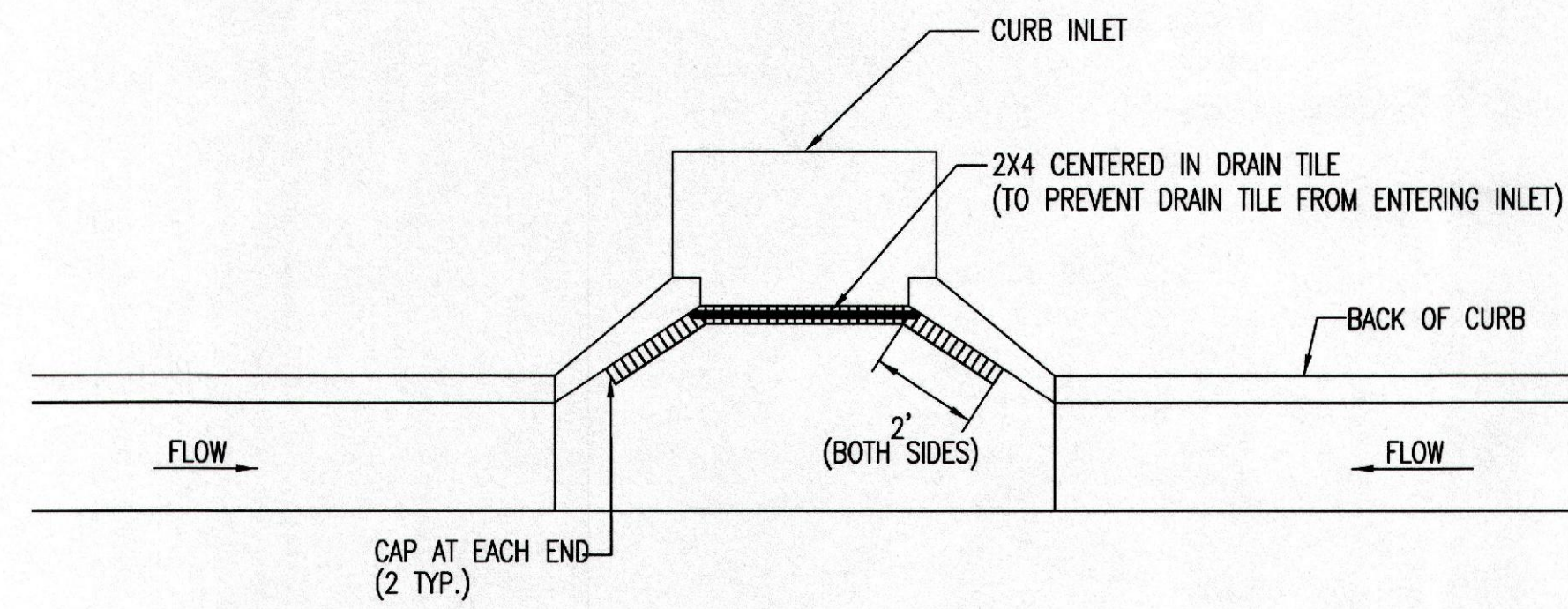
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

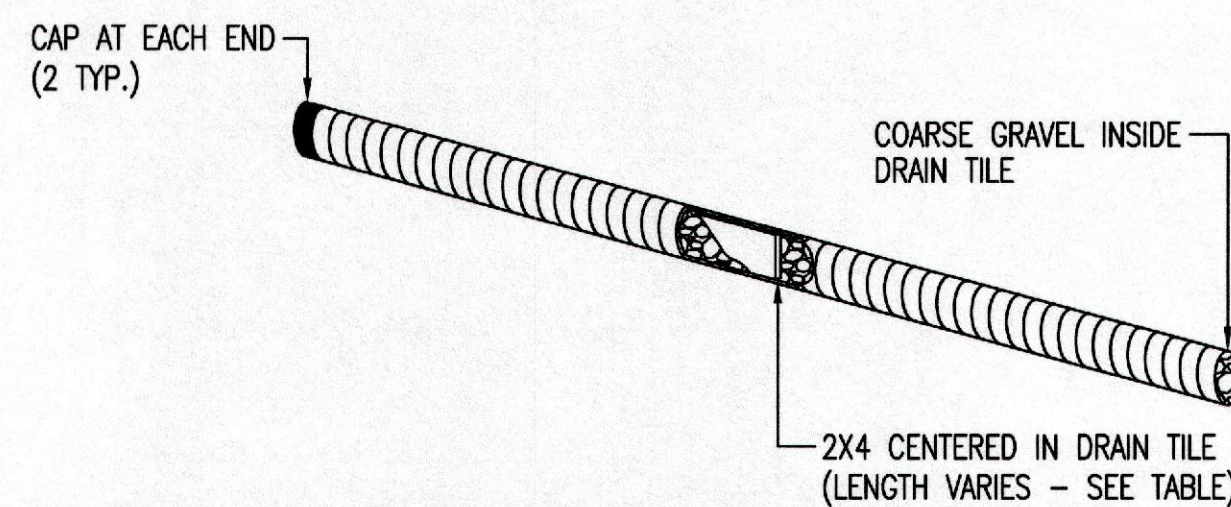
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

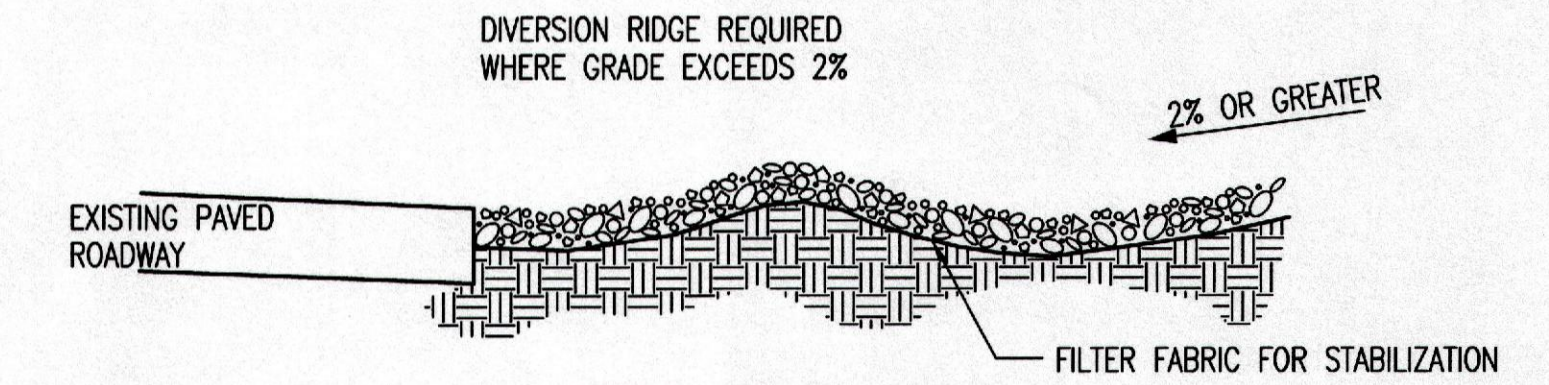


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

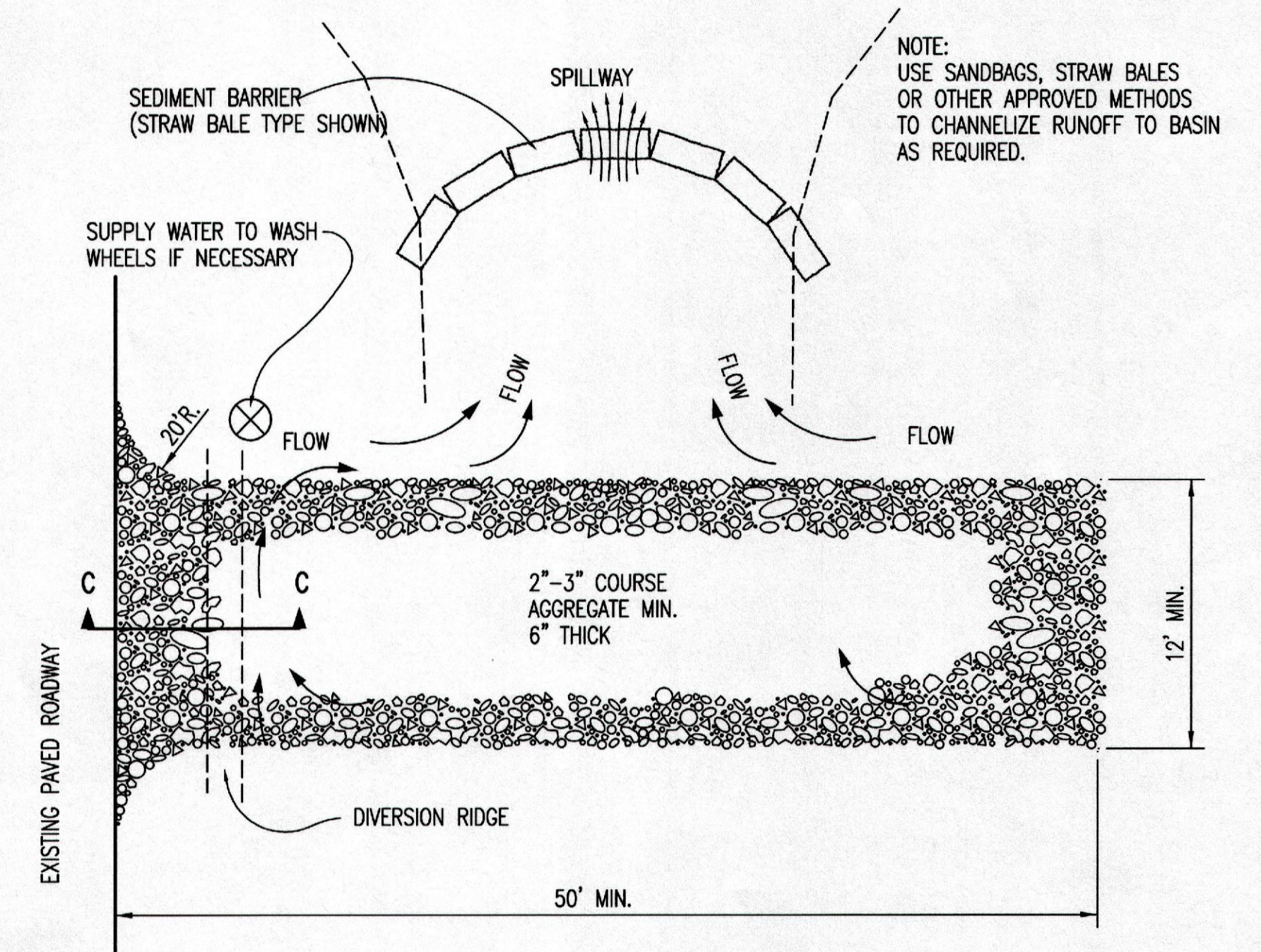
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



CURB INLET PROTECTION
4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

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

REVISION DATE: MAY 2013



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

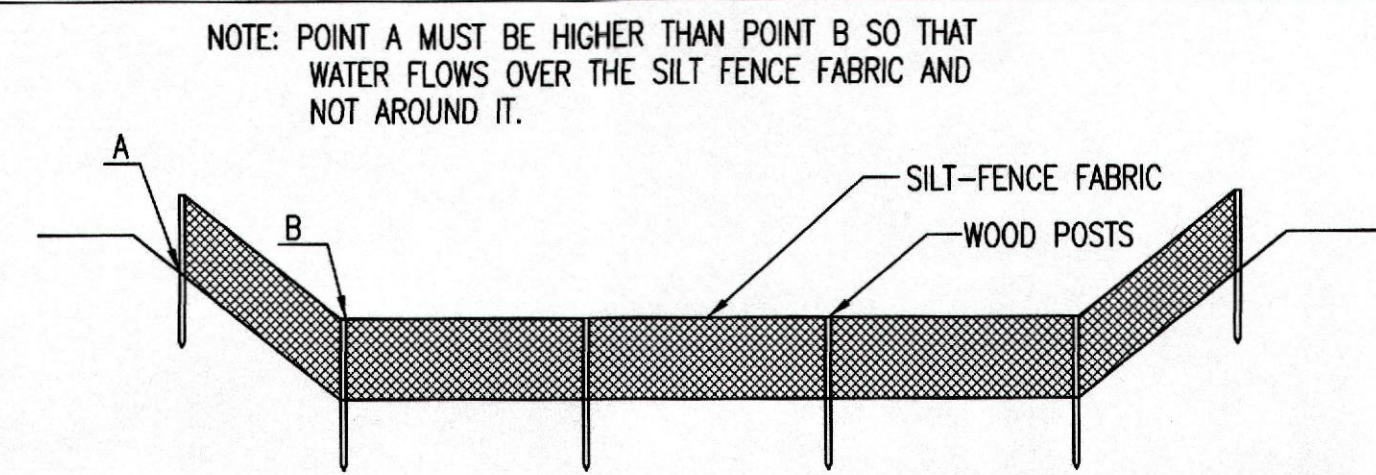
**BACK OF CURB PROTECTION,
CURB INLET PROTECTION AND
CONSTRUCTION ENTRANCE**

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 231 PPP	OCA NUMBER 607879	DATE
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CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
17 of 22



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

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSTREAM 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 UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

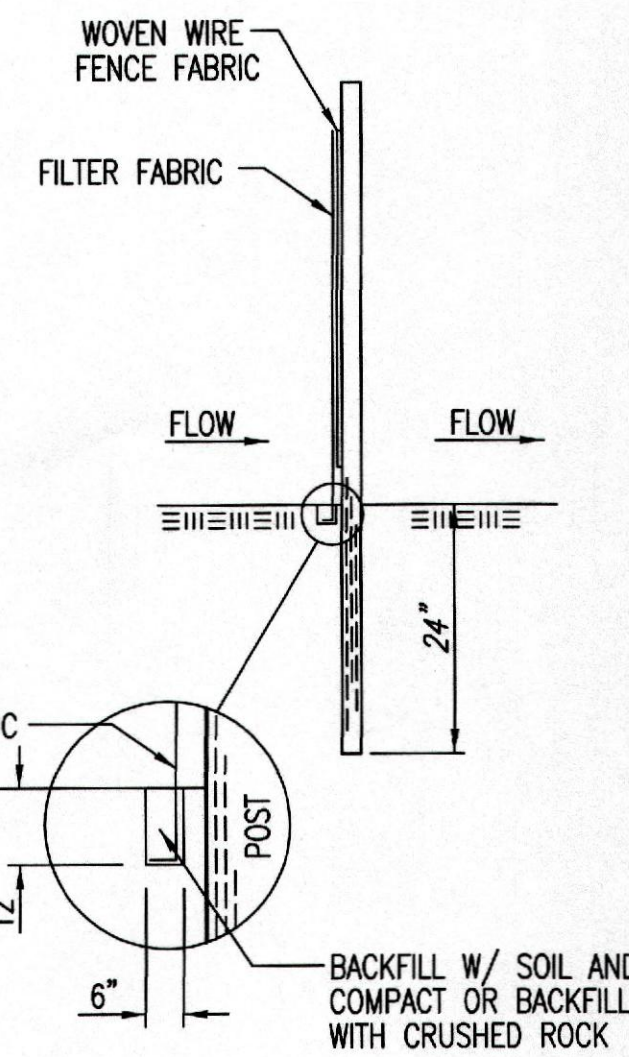
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

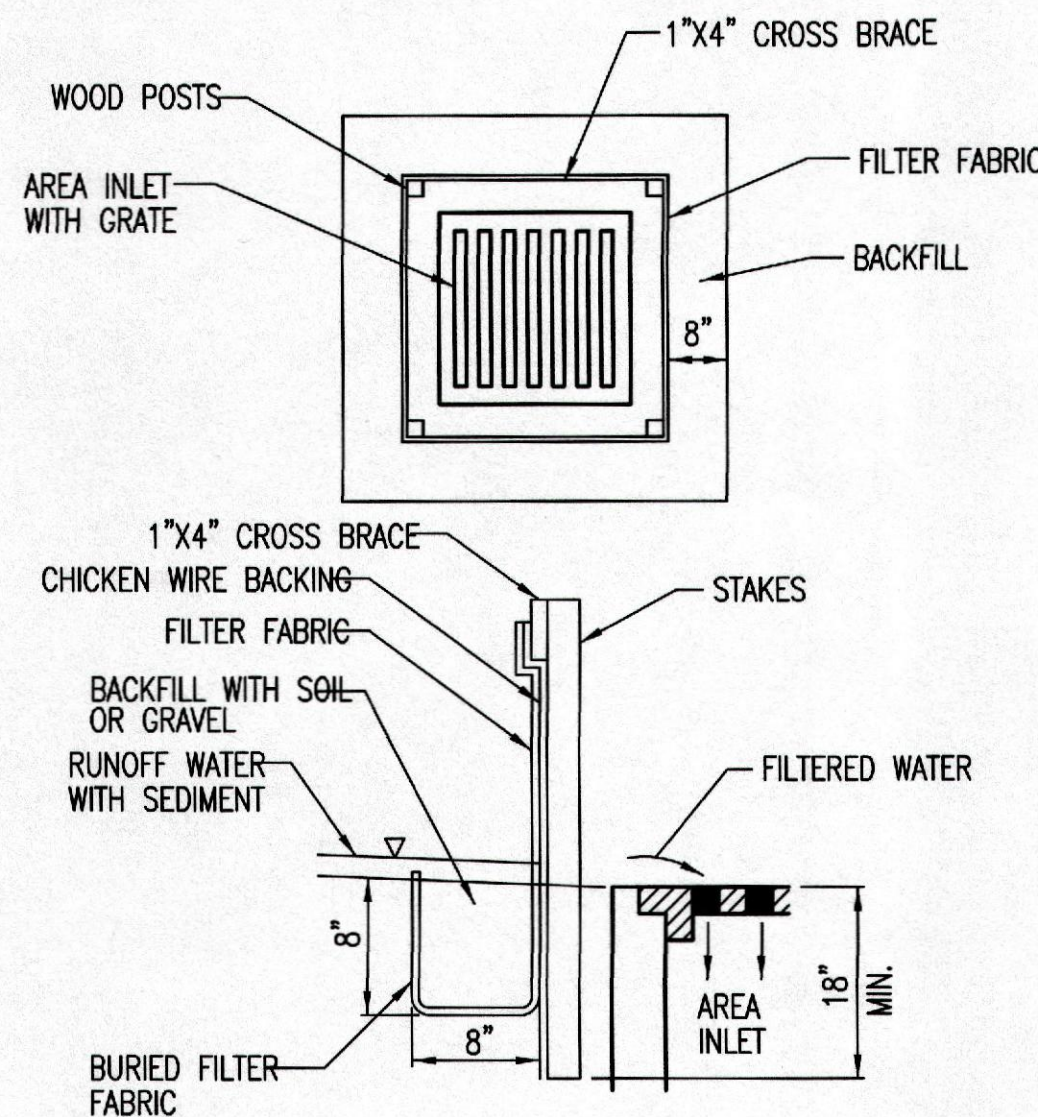
INSPECTION AND MAINTENANCE:

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

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



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

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

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

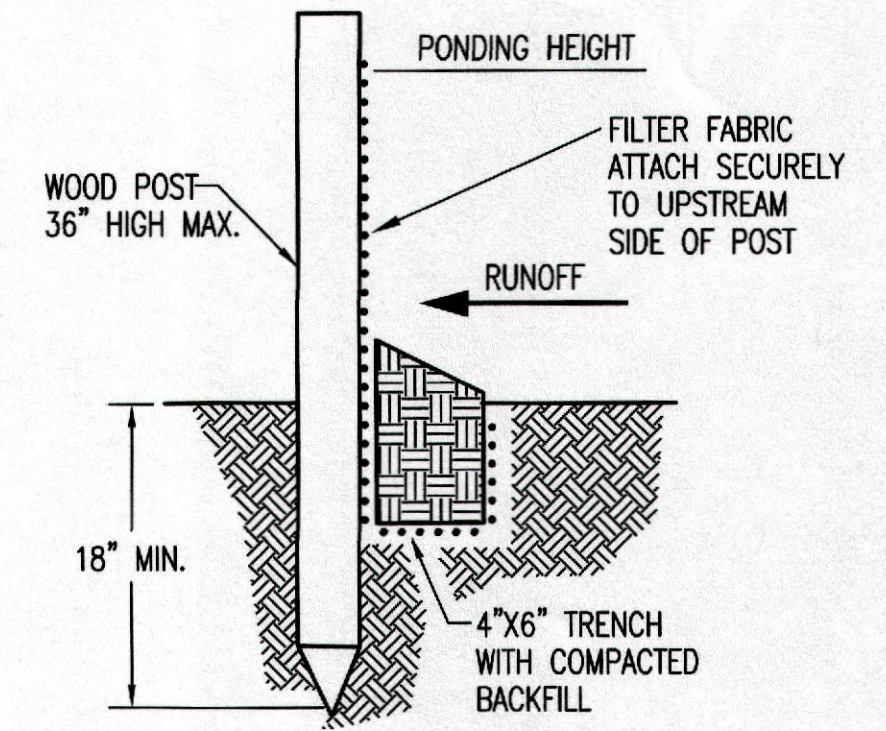
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

INSPECTION AND MAINTENANCE:

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

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



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

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

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

INSPECTION AND MAINTENANCE:

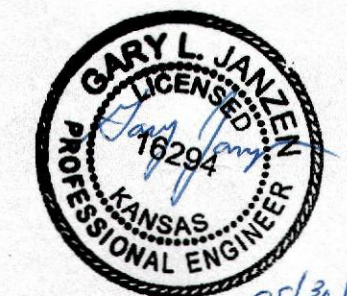
SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

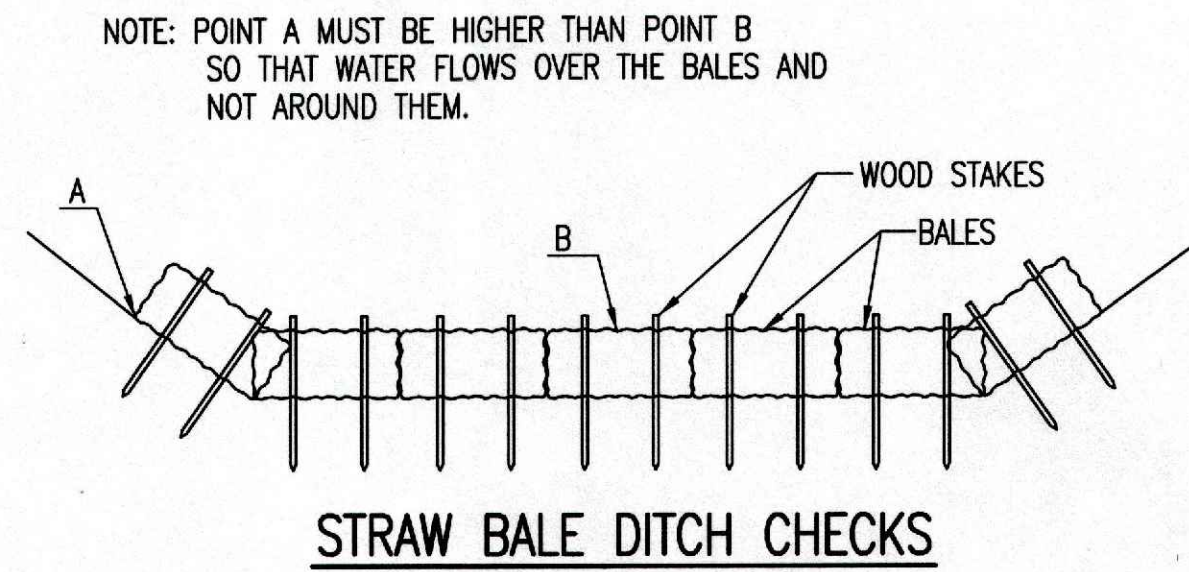
- ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
- DOES WATER FLOW UNDER THE SLOPE BARRIER?
- DO THE SILT FENCES SAG EXCESSIVELY?
- HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
- DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

REVISION DATE: MAY 2013

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

SILT FENCE DITCH CHECK AND BARRIER DETAILS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 231 PPP	OCA NUMBER 607879	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 18 of 22





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 (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

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

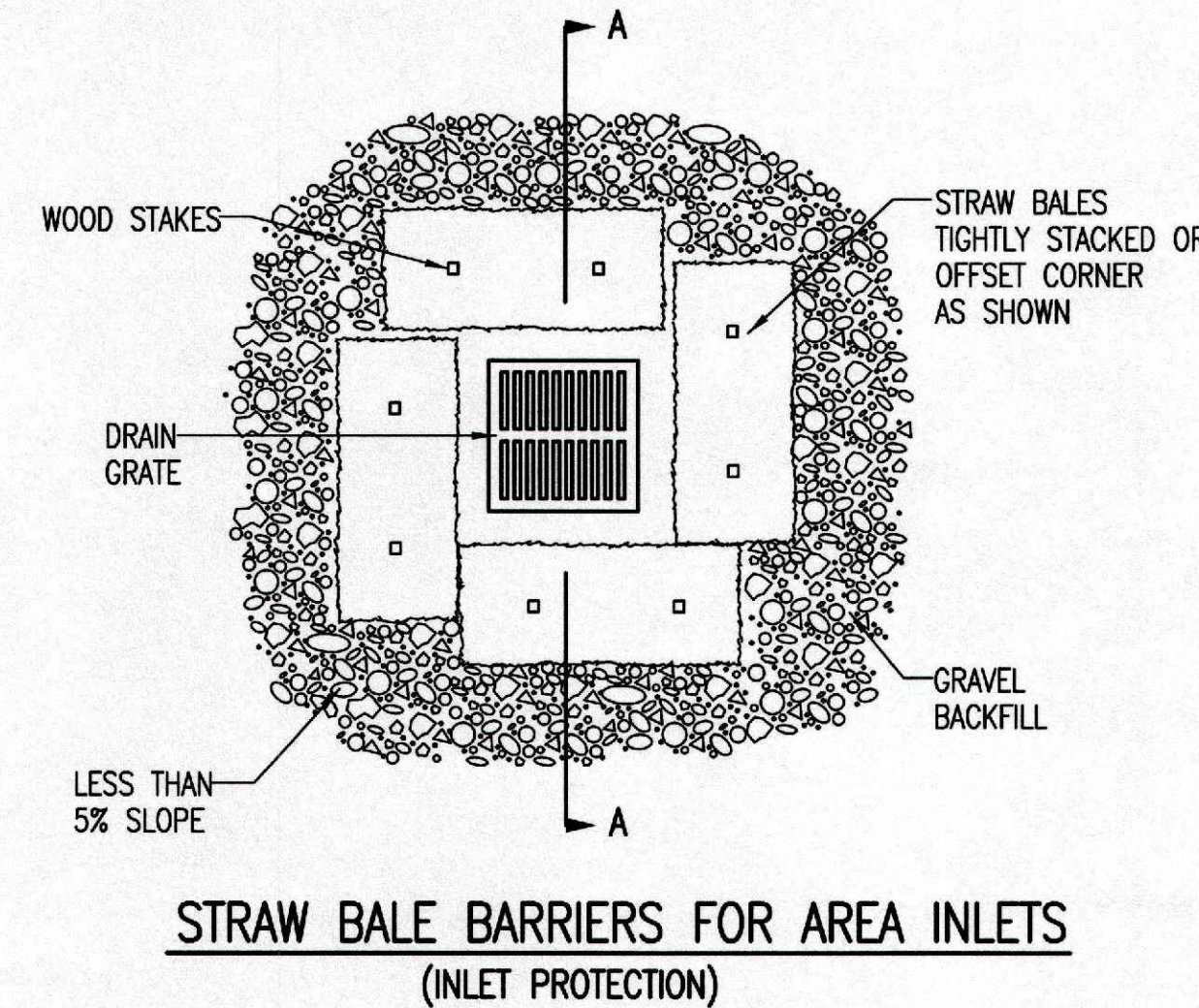
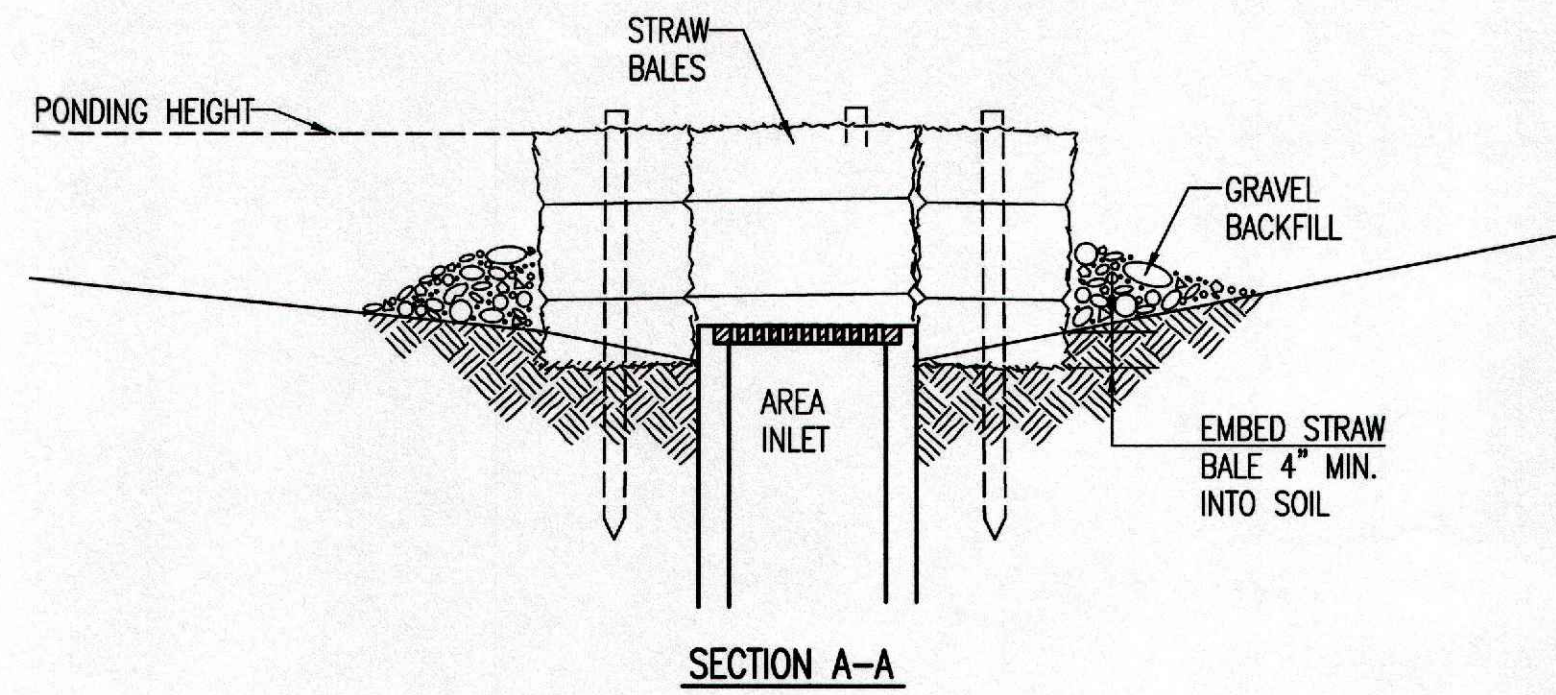
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

INSPECTION AND MAINTENANCE:

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

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



MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

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

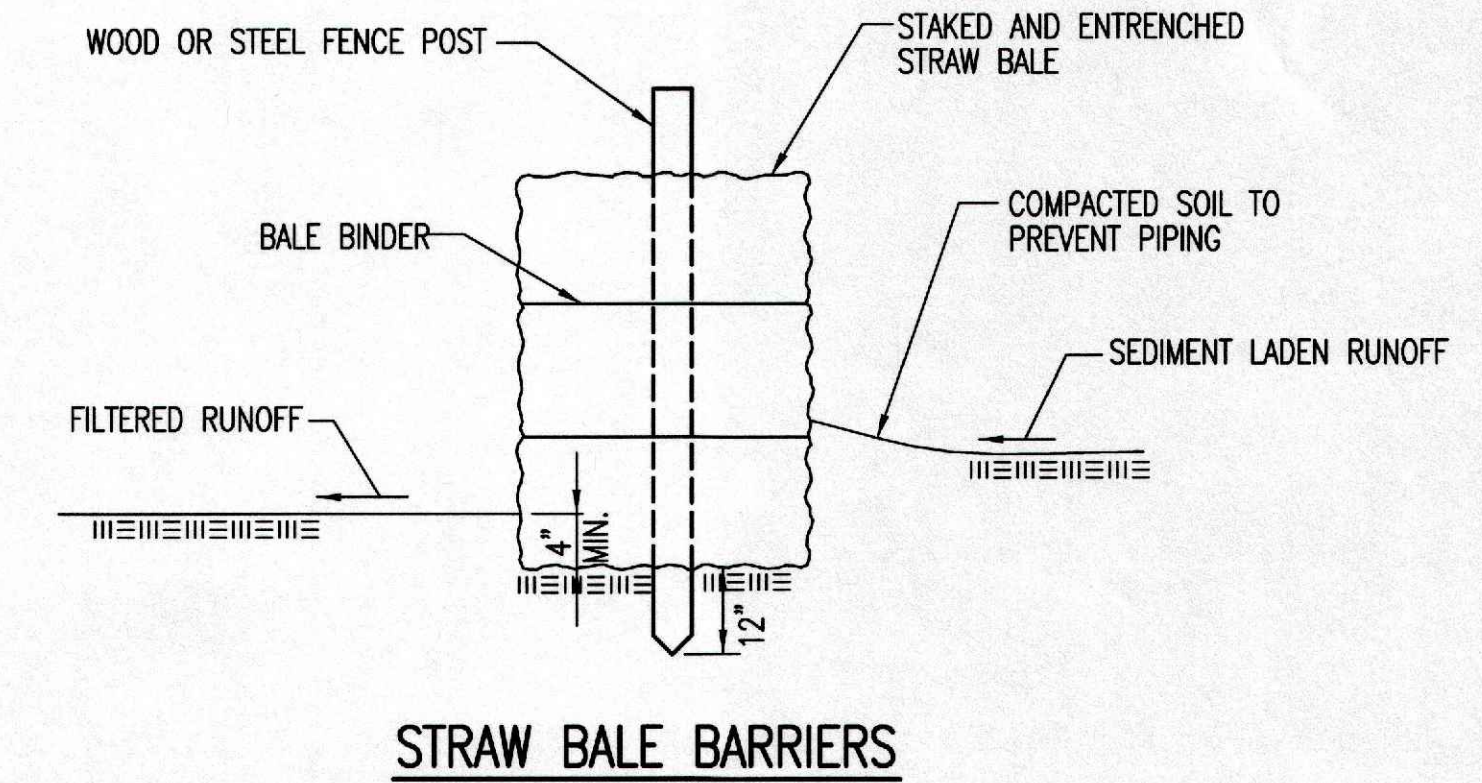
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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

INSPECTION AND MAINTENANCE:

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

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



MATERIAL SPECIFICATION:

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

PLACEMENT:

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

PROPER INSTALLATION METHOD:

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

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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


INSPECTION AND MAINTENANCE:

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

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

REVISION DATE: MAY 2013





CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

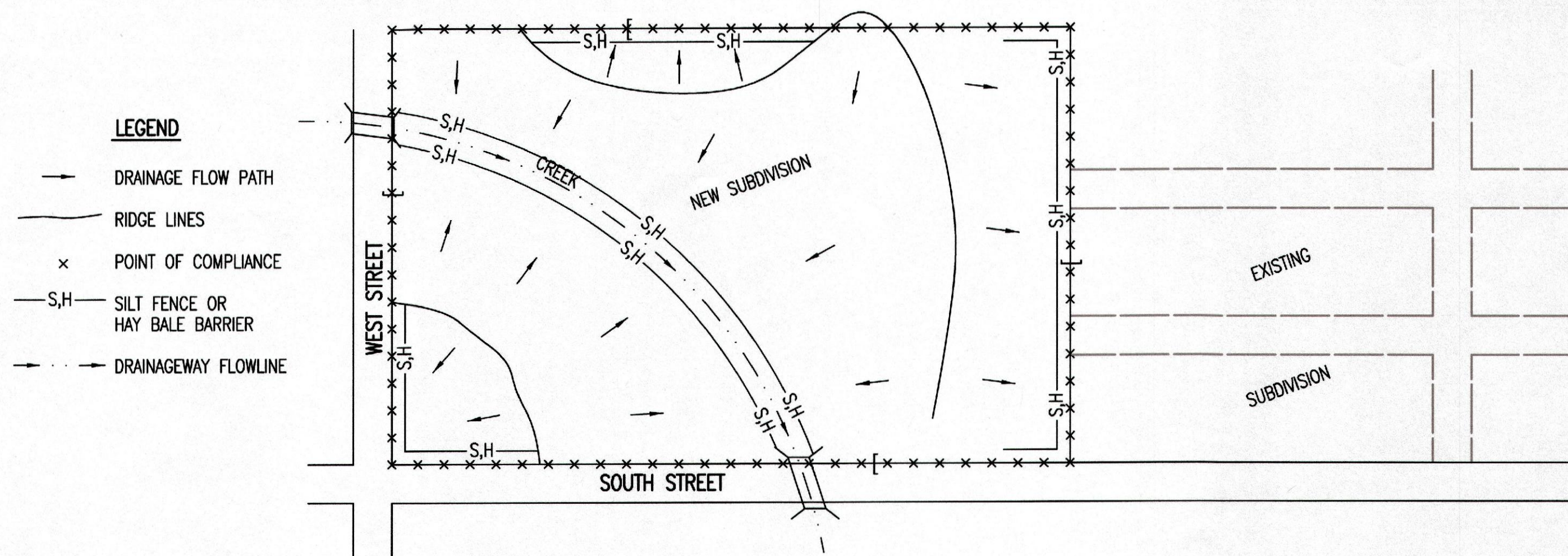
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER 231 PPP	OCA NUMBER 607879	DATE
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CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

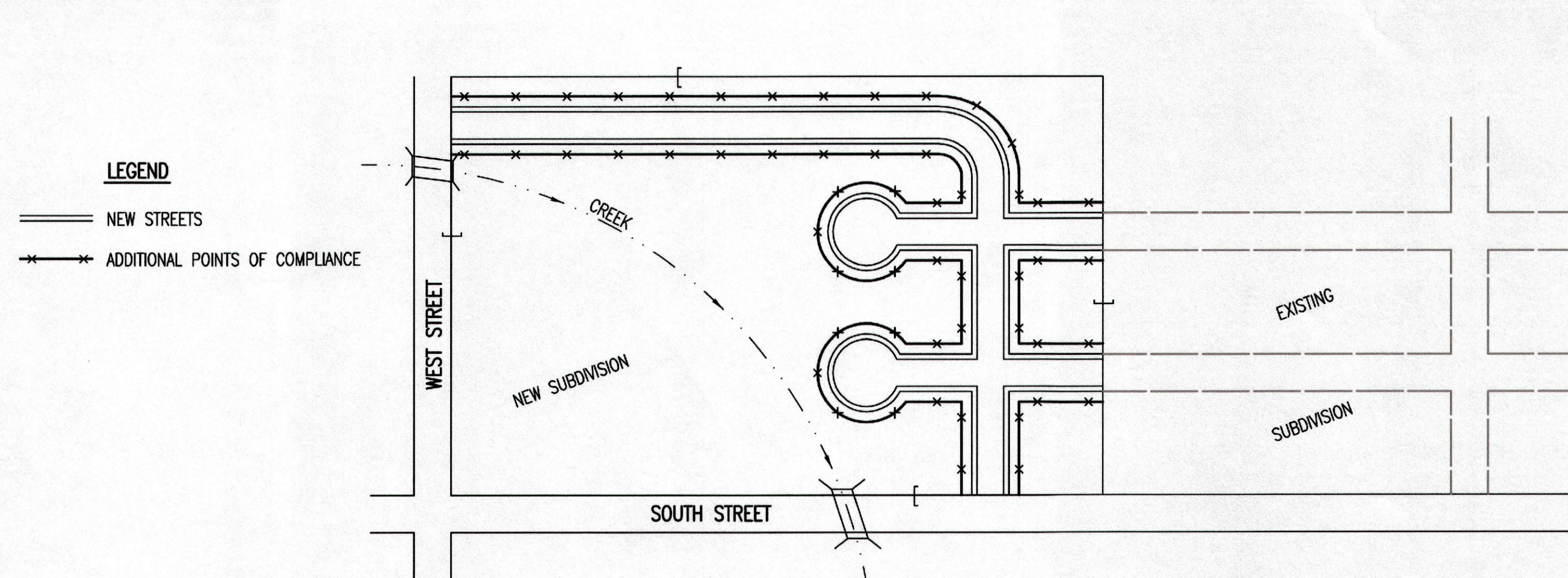
SHEET
19 of 22

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



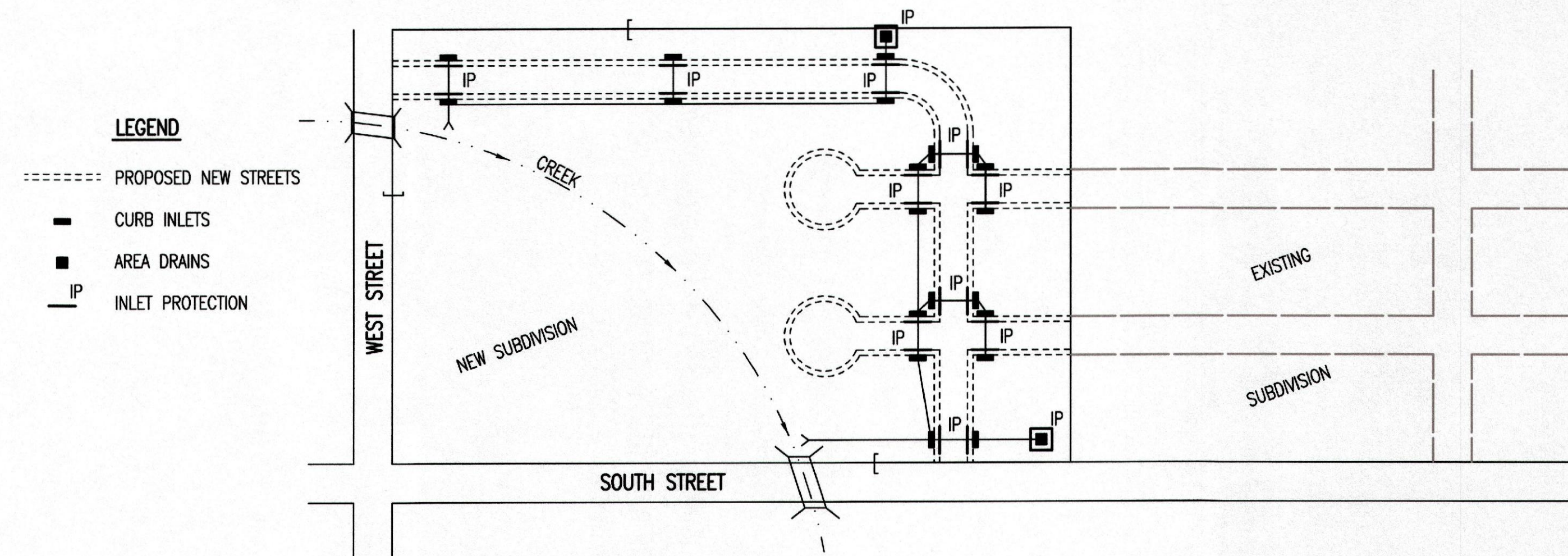
- LEGEND**
- DRAINAGE FLOW PATH
 - RIDGE LINES
 - × POINT OF COMPLIANCE
 - S.H. SILT FENCE OR HAY BALE BARRIER
 - DRAINAGEWAY FLOWLINE
- DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM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

PHASE 3 - STREET CONSTRUCTION



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

PHASE 2 - INSTALLATION OF STORM SEWER

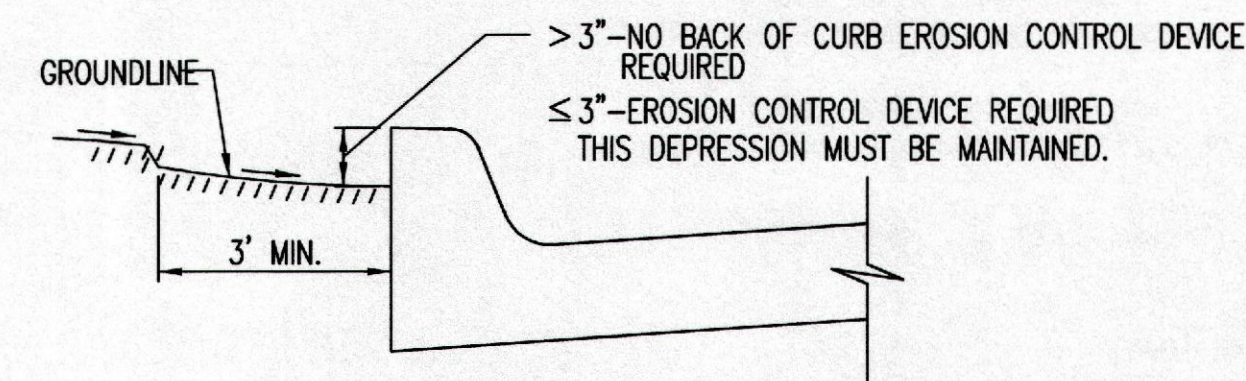


- LEGEND**
- PROPOSED NEW STREETS
 - CURB INLETS
 - AREA DRAINS
 - IP INLET PROTECTION
- DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
 - AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW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

GENERAL NOTES

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

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL

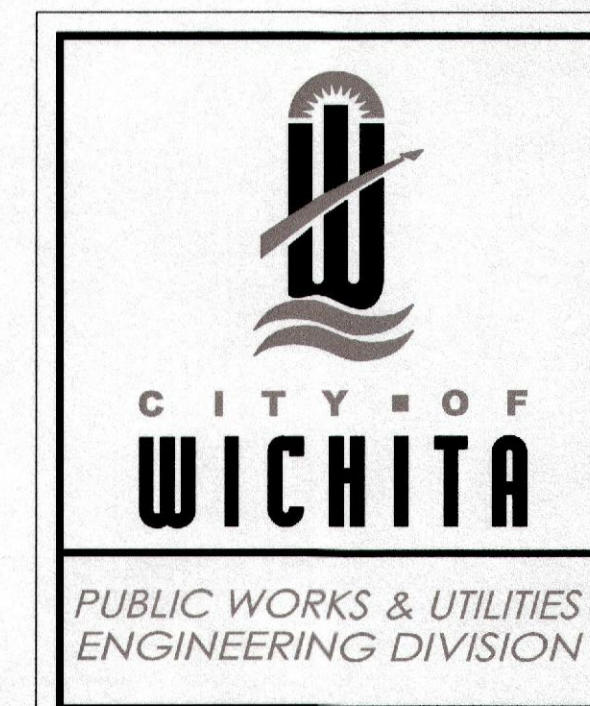


CURB BACKFILL DETAIL (STREET CONSTRUCTION ONLY)

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

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 C:\2013\1398\000\1398-000-200-SUBDIVISION DEVELOPMENT PROCESS



SUBDIVISION DEVELOPMENT PROCESS		
CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 231 PPP	OCA NUMBER 607879	DATE
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 20 of 22

A. General Instructions:

- Codes, Permits and Inspections:
 - Wiring shall be in accordance with latest edition National Electrical Code (NEC), NFPA, and/or applicable local, state, and Utility Company rules, laws, codes, and ordinances.
 - Secure all permits and inspections required for the installation of the electrical work.
 - All work shall comply with the latest edition of the Americans With Disabilities Act (ADA).
 - Pay all fees associated with new utility services.
- Verifications:
 - Verify mounting heights and locations of electrical equipment before installation or rough-in.
 - Verify exact location of electrical service entrance including point of service and system characteristics.
- Wiring Methods:
 - The Electrical Contractor shall cooperate with other Contractors and install equipment in proper sequence so as not to interfere with the progress of other Contractors.
 - All materials shall be new and carry the Underwriter's Label or be "listed" by that group, and be fully equal to makes specified.
 - Use only insulated copper conductors in conduit. Use flexible conduit for connections to motors and similar equipment.
 - All wiring shall be concealed and all outlets shall be flush mounted in finished spaces except as noted otherwise.
- Tests:
 - This Contractor shall be responsible for performing all tests necessary to prevent concealment of defective or improper work.
 - Upon completion of work, test the installation thoroughly and render it free from shorts, grounds or improper connections.
- Guarantee - This Contractor shall guarantee that all defective items of workmanship, material, labor or mechanical operation developing within one (1) year from the date of final acceptance of completed installation shall be replaced to the complete satisfaction of the Owner.
- Workmanship - Electrical equipment shall be installed in a neat and workmanlike manner. Unsightly installations shall be removed or reworked at no additional expense to the Owner.
- Identification of disconnecting means - Provide a permanent nameplate for each disconnect switch indicating its purpose. The marking shall be of sufficient durability to withstand the environment it is installed in as required by N.E.C. Section 110.22 and 230.72(A).

B. Electrical Equipment:

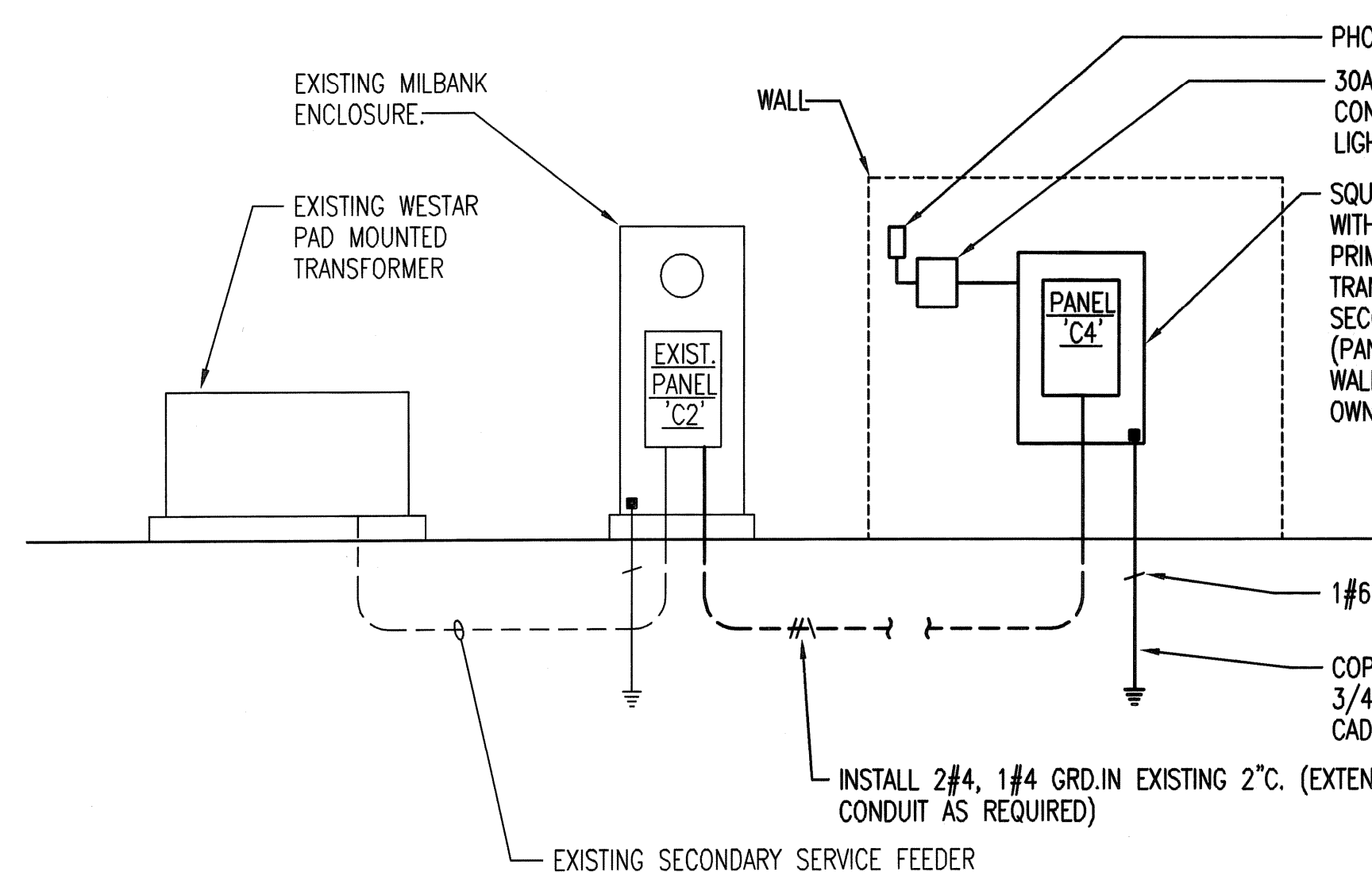
- Conduits:
 - All underground horizontal conduit shall be PVC.
 - Provide a ground wire sized per N.E.C. Art. 250.122 in all conduits, both metallic and nonmetallic.
 - Conduit shall be installed and sized according to code requirements and protected from damage during construction.
 - Conduit may be re-routed where such action does not adversely affect the intended design or circuiting.
 - Provide Robroy, Parma-Core or Korkpak PVC coated steel elts and risers. (typical)
- Conductors:
 - Conductors shall be copper, generally with 600 volt rated insulation. Branch circuit wiring min. size #12 Type "THW" or "THHN/THHN" as required. Service entrances, feeder conductors Type "THWN/THWN" or "XHHW". Low voltage wire shall be Type "TF" or "TFF" minimum #18 gauge unless noted otherwise. All other types shall be as required by N.E.C.
 - All conductors shall be color coded with type and size marking. Connections to service equipment, feeder panels shall be made with solderless lugs. All splices, taps, connections to service entrance conductors shall be made by bronze solderless lugs. All other splices, connections shall be pressure type connectors.
 - Insulate joints, splices with Scotch #33 plastic tape or plastic molded jackets.
- Grounding:
 - Provide system ground as required by N.E.C. and utility company if not already existing.
 - Bond mechanical equipment frames.
 - Bond all service entrance equipment and conduit system.
 - An equipment grounding conductor sized per N.E.C. Art. 250.122 shall be provided in all conduits. The ground wire is required for both metallic and nonmetallic conduit installations.
- Photo Electric Controls:
 - Photo Electric Controls by Tork, Intermatic and Paragon equal to those indicated below and approved by the Engineer will be acceptable.

EXIST. PANEL: C2										
480/277 VOLTS, 1 PHASE, 3 WIRE 100 AMP MAIN BKR, SURFACE MTD. AIC LABELED										
CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	AMP SIZE	WIRE SIZE	AMP SIZE	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	CIRC NO.
1			POWER ZONE PANEL 'C3'	30	A	30		SPARE		2
3					B					4
5			POWER ZONE PANEL 'C4'	30	A	30		SPARE		6
7					B					8
9			SPARE	20	A	15				10
11					B			SPACE		12
13			SPACE		A			SPACE		14
15			SPACE		B			SPACE		16
17			SPACE		A			SPACE		18
19			SPACE		B			SPACE		20
21			SPACE		A			SPACE		22
23			SPACE		B			SPACE		24

- EXISTING BREAKER TO REMAIN.
- CONNECT TO EXISTING SPARE CIRCUIT BREAKER. UPDATE PANEL DIRECTORY.

PANELBOARD: C4										
240/120 VOLTS, 1 PHASE, 3 WIRE 60 AMP MAIN BKR, SURFACE MTD. 18000 AIC LABELED										
CIRC NO.	LOAD V. A.	LOAD TYPE	LOAD DESCRIPTION	AMP SIZE	WIRE SIZE	AMP SIZE	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	CIRC NO.
1		LMF	SIGN	20	A	20		SPARE		2
3		LMF	LANDSCAPE LTS	20	B	20		SPARE		4
5			FUTURE GATE	20	A	20		1 LG CONTROL	LMF	50
7			SPARE	20	B	20		GLEN MEADOWS POLES	LMF	500
9			SPARE	20	A					10
11			SPACE		B			SPACE		12

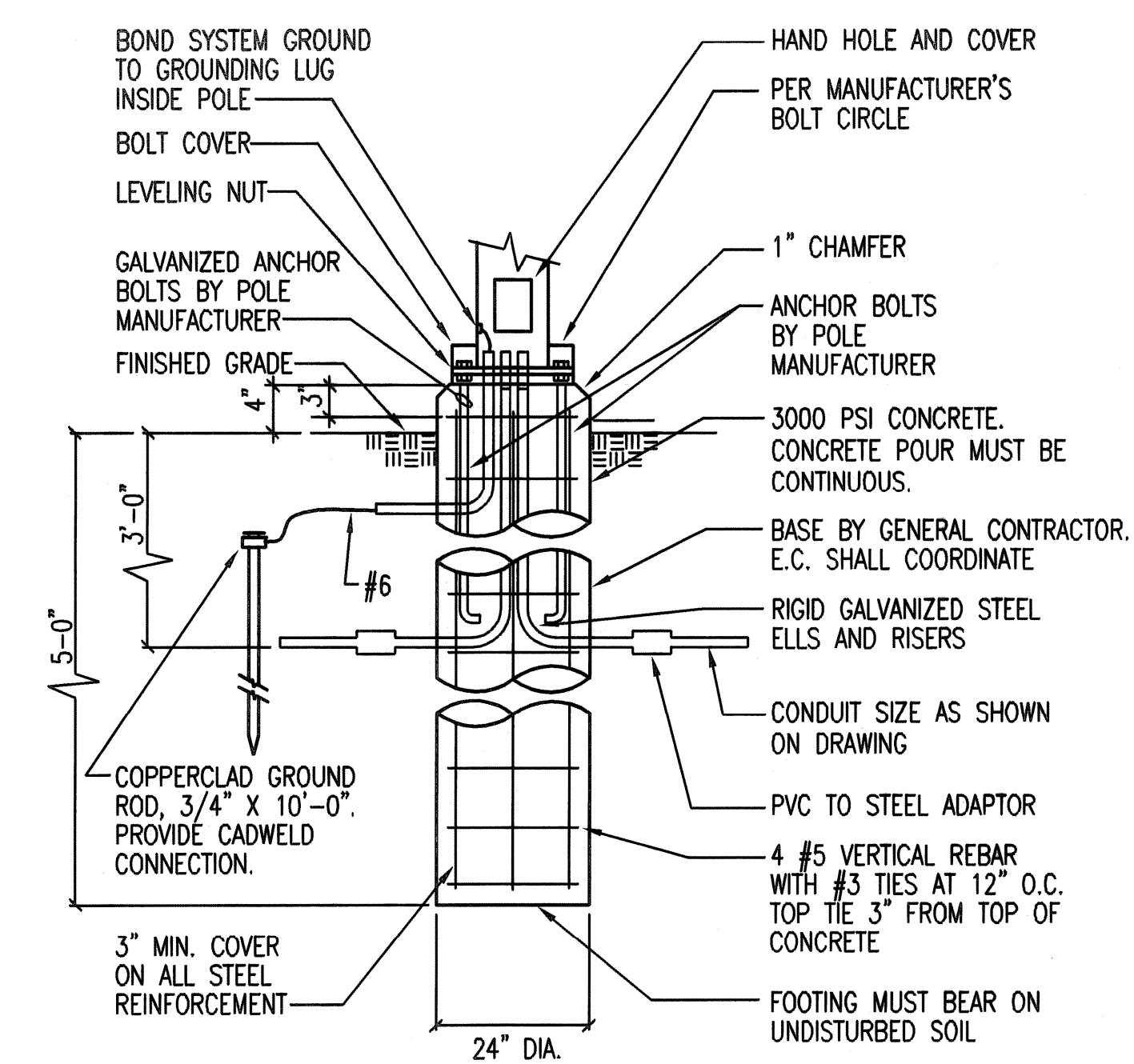
- ROUTE VIA LIGHTING CONTACTOR.



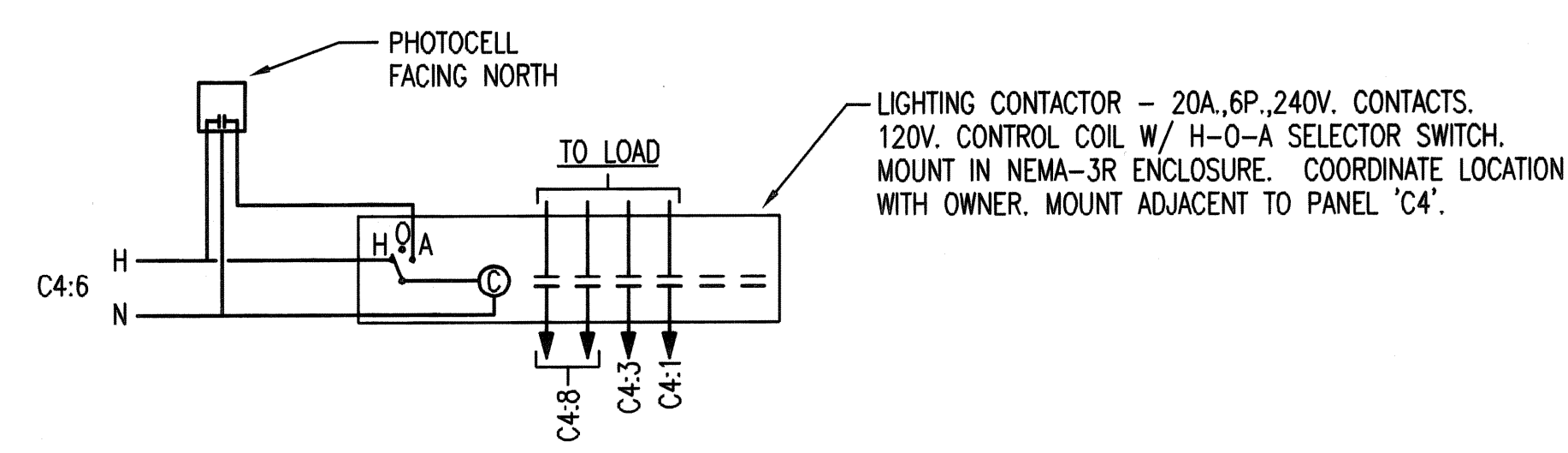
2 ELECTRICAL RISER DIAGRAM
N.T.S.

LIGHTING FIXTURE SCHEDULE (P.E.C.)											
FIXT. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS		VOLTS	LENS/FINISH	DESCRIPTION	DIMENSIONS			REMARKS
			NO.	TYPE				W	L	D	
P4	HOLOPHANE		1	100W MH	240	DK BRONZE	POLE MOUNTED				

- MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
- HOLOPHANE FIXTURE #GVU-10-DMH-24-Z-8-N-S-Z WITH POLE #MRA-14-5SJ-19-P09-ABG-BZ WITH LUNAR OPTICS, TYPE V DISTRIBUTION AND NO HOUSE SIDE SHIELD.



1 POLE BASE DETAIL FOR TYPES 'P4'
N.T.S.



3 LIGHTING CONTROL WIRING DIAGRAM
NO SCALE

SYMBOL LIST		
SYMBOL	DESCRIPTION	MOUNTING
P4	LIGHT FIXTURE & FIXTURE LETTER	POLE
WP	WEATHERPROOF	
[Symbol]	PULL BOX	
[Symbol]	ELECTRICAL DISTRIBUTION EQUIPMENT	
[Symbol]	CONDUIT RUN 2 CIRCUITS, 3/4" & 1/2" GRD.- 1"	EARTH/FLOOR
U.O.N.	UNLESS OTHERWISE NOTED	
[Symbol]	CONDUIT RUN TWO (2) CIRCUITS	CEILING/WALL
[Symbol]	PHASE CONDUCTORS (#12 U.O.N.)	
[Symbol]	NEUTRAL CONDUCTOR (#12 U.O.N.)	
[Symbol]	SWITCH LEGS (#12 U.O.N.)	
[Symbol]	GROUND CONDUCTOR (#12 U.O.N.)	

GENERAL NOTES

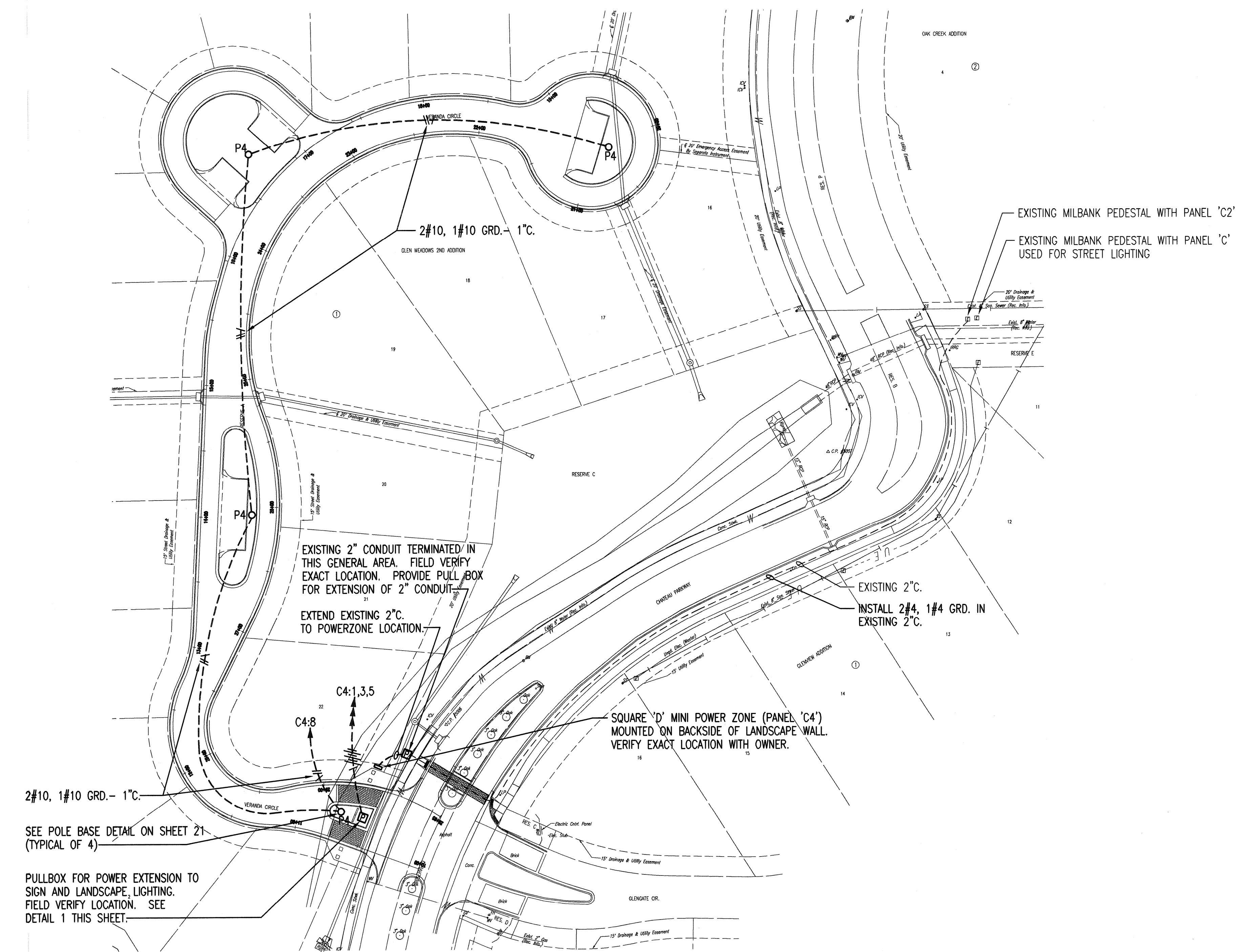
- E.C. SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS AND THE REQUIREMENTS CALLED OUT ON THE PLANS.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL ELECT. CODES OR REGULATIONS OF THE UTILITY COMPANY.
- REFER TO SPECIFICATIONS FOR DATA NOT SHOWN ON DRAWINGS.
- E.C. SHALL PAY FOR ALL FEES AND PERMITS FOR ELECTRICAL WORK ON THIS PROJECT.
- E.C. IS RESPONSIBLE FOR DAMAGE TO CITY PROPERTY OR THE WORK BY OTHERS THAT MAY BE CAUSED BY THE E.C.'S WORK OR ACTIVITY IN THE AREA.
- ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. UNSIGHTLY INSTALLATION WORK SHALL BE REMOVED AND REWORKED AT THE DIRECTION OF THE FIELD ENGINEER OR THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
- THE G.C. SHALL BE RESPONSIBLE FOR: PAYING ALL UTILITY BILLS FOR OPERATION OF THE ELECTRICAL SYSTEM THROUGH FINAL ACCEPTANCE. ALL SLEEVES, RUBBLE EXCAVATION AND REMOVAL, CONCRETE WORK, REINFORCING, STEEL SUPPORTS AND BRACKETS, SEAL AND GROUT ALL OPENINGS AFTER E.C. HAS COMPLETED ELECTRICAL WORK OR PORTIONS THEREOF, AREA CLEAN UP OF OWN WORK, PAINTING OF SURFACES REQUIRED BY CITY SPECS. OR UTILITY CO., AND ALL WORK REQUIRED FOR THE E.C. THAT IS NOT ELECTRICAL RELATED.
- E.C. SHALL PROVIDE, FURNISH AND INSTALL ALL PARTS, EQUIPMENT, SUPPLIES AND LABOR TO CONSTRUCT AND INSTALL A COMPLETE LIGHTING SYSTEM.
- E.C. SHALL VERIFY ALL EQUIPMENT SPECIFIED ON THE LIGHTING PLAN AND COORDINATE MANUFACTURER'S CHANGES WITH PLAN INFORMATION AFTER NOTICE TO PROCEED IS GIVEN. THESE CHANGES SHALL NOT ACCRUE ADDITIONAL COST TO THE OWNER.
- E.C. SHALL RECORD SYSTEM LOAD PER PHASE OF DISTRIBUTION PANEL AND SUBMIT FINAL READINGS TO OWNER WITH PRODUCT INFORMATION.
- E.C. SHALL TEST COMPLETE SYSTEM TO INSURE CIRCUITS ARE FREE FROM SHORT CIRCUITS AND TO MAKE ALL NECESSARY ADJUSTMENTS TO ELECTRICAL EQUIPMENT. INSTALLED FIXTURES AND POLES SHALL BE CLEAN, FREE OF SCRATCHES AND MARKS.
- E.C. SHALL DELIVER TO THE OWNER BEFORE FINAL ACCEPTANCE IN TRIPPLICATE: SHOP DRAWINGS, CATALOG DATA, PRODUCT INFORMATION, OPERATION AND MAINTENANCE INSTRUCTIONS, AND PARTS LIST. DELIVER TWO RED LINE "AS BUILT" BLUEPRINTS OF THE LIGHTING PLAN, ADDENDA AND CHANGE ORDERS THAT PERTAIN TO THIS WORK.
- E.C. SHALL FULLY INSTRUCT THE OWNER OR IT'S REPRESENTATIVE AS TO THE PROPER OPERATION, CARE, MAINTENANCE AND CHARACTERISTICS OF THE LIGHTING SYSTEM AND IT'S EQUIPMENT.
- ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS.
- REFER TO THIS SHEET FOR ELECTRICAL SPECIFICATIONS.

	Revision	By	Date
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS ELECTRICAL SCHEDULES AND DETAILS		
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com	
Designed by	DCG	Job No.	20-13368-000
Drawn by	MDB	Date	September 2013
			Sh. 21 of 22

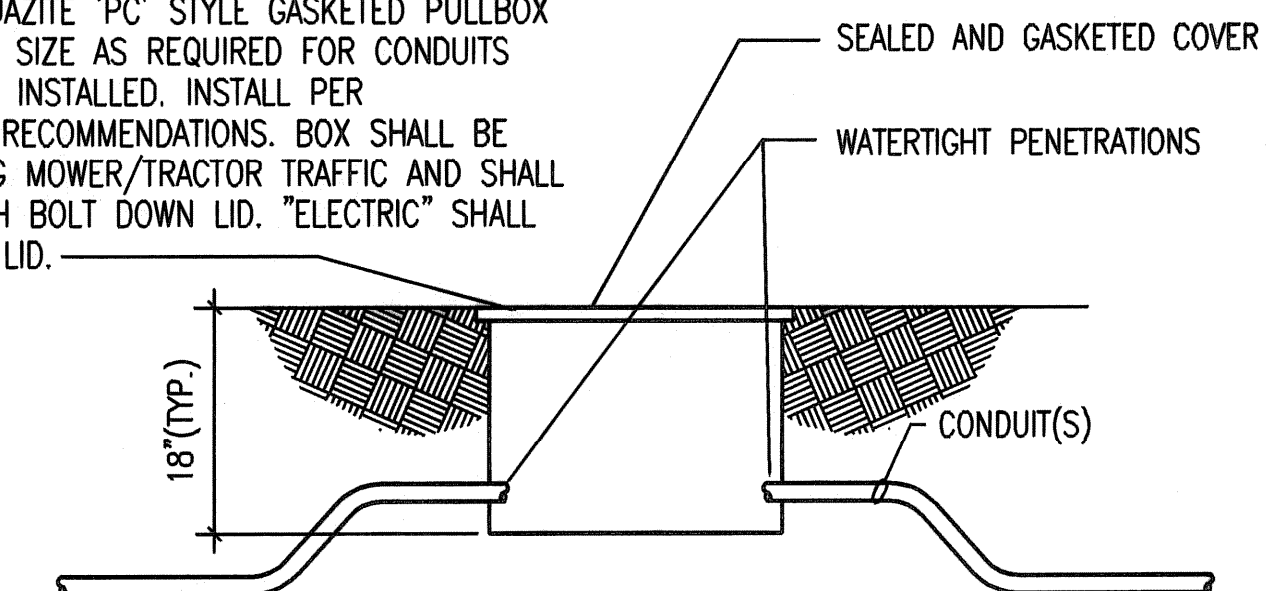
PLAN NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 1".
2. PVC COATED STEEL ELLS AND RISERS AS MANUFACTURED BY ROBROY, PERMA-COLE OR KORKAP SHALL BE USED FOR ALL LOCATIONS.
3. MAXIMUM UNDERGROUND BRANCH CIRCUIT CONDUCTOR PULL/INSTALLATION LENGTH SHALL NOT EXCEED 300'. PROVIDE AND INSTALL PULL BOXES PER DETAIL 1 THIS SHEET FOR ALL BRANCH CIRCUITS INSTALLED WHERE THE PULL/INSTALLATION DISTANCE WILL EXCEED 300'. CONTRACTOR TO DETERMINE PULL BOX LOCATIONS IN THE FIELD.
4. CONDUIT ROUTING SHOWN ON PLANS IS SCHEMATIC ONLY. COORDINATE ROUTING WITH OTHER UTILITIES AND EXISTING TREES.

REFERENCE SHEET #10 AND 11 FOR COORDINATES FOR LOCATING POLE BASES.

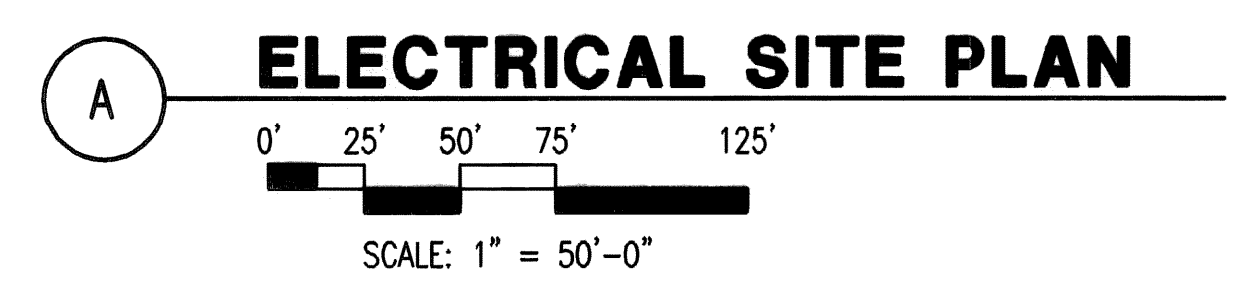


PROVIDE DEEP QUAZITE 'PC' STYLE GASKETED PULLBOX WITH SOLID BASE. SIZE AS REQUIRED FOR CONDUITS AND CONDUCTORS INSTALLED. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. BOX SHALL BE RATED FOR RIDING MOWER/TRACTOR TRAFFIC AND SHALL BE PROVIDED WITH BOLT DOWN LID. "ELECTRIC" SHALL BE MOLDED INTO LID.



NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE A PULLBOX WHERE NECESSARY SO NO RUN OF CONDUIT BETWEEN POLES OR HOMERUNS EXCEED 300'. ALL CONNECTIONS IF REQUIRED IN PULL BOX SHALL BE WATERTIGHT.

1 PULLBOX DETAIL
NO SCALE



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 E:\2013\13368\000\13368-000 E2 Plot

	No.	Revision	By	Date
	GLEN MEADOWS 2ND ADDITION PRIVATE PAVING IMPROVEMENTS ELECTRICAL PLAN			
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
Designed by	DCG	Job No.	20-13368-000	Sht. 22 of 22
Drawn by	MDB	Date	September 2013	