

GENERAL NOTES:

- 1. UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION...
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
KANSAS ONE CALL 811
COX COMMUNICATIONS (CABLE) 316-262-0661
AT&T (TELEPHONE) 316-288-2008
WESTAR ENERGY (ELECTRIC) 316-261-6512
KANSAS GAS SERVICE (GAS) 316-832-3126
BLACK HILLS ENERGY (GAS) 316-722-1808
CITY OF WICHITA (WATER) 316-268-4555
SEDGWICK RURAL WATER DISTRICT #1 316-775-0100
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS...
4. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE PROJECT LIMITS A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
5. NO SOIL BORINGS HAVE BEEN PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL BEAR THE COSTS, AND RESPONSIBILITY FOR, ANY SOILS INVESTIGATION DEEMED NECESSARY FOR EXECUTION OF THE WORK.
6. ALL CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE NOTED, TO COMPLY WITH CITY OF WICHITA SPECIFICATION AND STANDARDS.
7. NO SERVICES WILL BE INSTALLED AS PART OF THIS PROJECT.
8. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL; TWO-WAY TRAFFIC MUST BE MAINTAINED THROUGHOUT THE PROJECT. TRAFFIC CONTROL DEVICES AND SIGNING SHALL BE IN ACCORDANCE OF THE LATEST ADDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND KDOT TRAFFIC CONTROL STANDARD DRAWINGS AND SPECIFICATIONS.
9. ANY FENCE REMOVED FOR CONSTRUCTION SHALL BE REPAIRED IN A CONDITION EQUAL TO, OR BETTER THAN, ORIGINAL AT NO ADDITIONAL COST TO THE OWNER. THIS COST SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
10. RUBBLE REMOVAL - RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURE AND EXCESS EXCAVATION WHICH IS TO BE WASTED OR STOCKPILED ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO US CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION. THE COST OF DISPOSING OF RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION, INCLUDING LOADING AND HAULING SHALL BE SUBSIDIARY TO THE OTHER BID ITEMS.
11. 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. THIS COST IS SUBSIDIARY TO OTHER BID ITEMS.
12. CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE.
13. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, SHOULDERS, AND ENTRANCES TO THE ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
14. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND RESTORE THE PROJECT TO A CONDITION COMPARABLE TO EXISTING, DISTURBED AREAS OUTSIDE PAVEMENT SHALL BE RESTORED WITH THE SAME GRASS/SEED AS EXISTING SEEDING SHALL INCLUDE TOP SOIL PREPARATION, SEEDING AND MULCHING.
15. CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE EROSION CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPP) AS FILED WITH THE NOTICE OF INTENT (NOI) AND DETAILED IN THE PROJECT PLANS. BMP'S SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING RECORDS OF THE REQUIRED INSPECTIONS AND MAINTENANCE PER THE SWPPP SUBMITTED WITH THE NOI.
16. OPENING AND CLOSING OF WATER VALVES SHALL BE DONE BY CITY OF WICHITA PERSONNEL ONLY.

- A. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR RAVING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED, REF. SITE WORK SPECIFICATIONS.
C. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS, DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
D. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
E. ALL CONSTRUCTION IN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT AREA ENGINEER. SPECIFICATIONS ADOPTED BY U.S.A. DEPARTMENT OF TRANSPORTATION, MARCH 1, 1993, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT.
F. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS WHICH ARE BEING ALTERED OR REPLACED. CONTRACTOR SHALL CONTRACT THE ENGINEER FOR SPECIFICATION SECTIONS FOR ITEMS SUCH AS LANDSCAPING AND IRRIGATION THAT ARE AFFECTED BY THE WORK BUT NOT COMPLETELY DETAILED OR SPECIFIED ON THIS PLANS.

WETLANDS NOTICE:

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

WARRANTY/DISCLAIMER

THE DESIGNS REPRESENTED IN THE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR HIS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A TEMPORARY BASIS AT THE SITE.

NOTICE CERTIFICATION

ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER'S CONSTRUCTION DEPARTMENT AT 918-615-7816. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR. THE CONSULTING ARCHITECT/ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

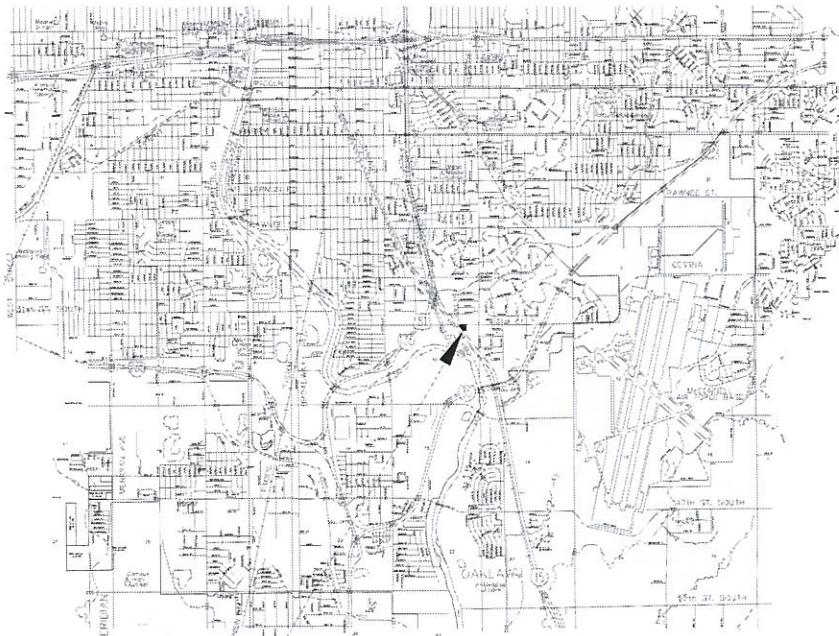
FLOOD CERTIFICATION:

THIS PROPERTY LIES IN ZONE "X" AND DOES LOCATE WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR WICHITA, SEDGWICK COUNTY, KANSAS COMMUNITY

As Built Plans
Contractor:
Superintendent:
Project Manager:
Client:
Inspector:
PDF by:

Cornejo & Sons
Curtis Fry (Riverside Group)
Craig Dietz (Cornejo)
City of Wichita
Caleb Wilson, Schwab-Eaton, PA
ELS, 08/27/14

SITE DEVELOPMENT PLANS FOR
QUIKTRIP STORE #0313R
235 PPP (O.C.A. NO. 607879)
K-15 AND 31ST STREET SOUTH
WICHITA, KANSAS



Project Location Vicinity Map
Not to Scale

MUNICIPAL CONTACT LIST:

- CITY OF WICHITA
OFFICE OF CENTRAL INSPECTION
DEPARTMENT - PLANNING DIVISION
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-4477
FAX: (316) 268-4663
CONTACT: PAUL HAYS
OFFICE OF CENTRAL INSPECTION
DEPARTMENT - INSPECTIONS DIVISION
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-4648
FAX: (316) 268-4663
CONTACT: PAUL HAYS
CITY TRAFFIC ENGINEER
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-4393
FAX: (316) 268-4114
CONTACT: PAUL GUNZELMAN, P.E.
CITY OF WICHITA WATER & SEWER UTILITIES
CITY HALL, 8TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-2762
CONTACT: JIM TOBEN
CITY OF WICHITA STORM WATER MANAGEMENT DEPARTMENT
CITY HALL, 8TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-4498
CONTACT: SCOTT LINDEBAK, P.E.
CITY FIRE DEPARTMENT
CITY HALL, 11TH FLOOR
455 N. MAIN
WICHITA, KS, 67202
TEL: (316) 268-4510
FAX: (316) 858-7702
CONTACT: CHIEF ROBERT THOMPSON

PRIVATE UTILITIES LIST:

- ELECTRIC COMPANY (WESTAR ENERGY)
TEL: (316) 261-6315
CONTACT: SHANE PRICE
EMAIL: SHANE.PRICE@WESTARENERGY.COM
GAS COMPANY (KANSAS GAS SERVICE)
TEL: (316) 261-831-5664
CONTACT: CINDY LITTLEJOHN
EMAIL: CINDY.LITTLEJOHN@ONEOK.COM
GAS COMPANY (BLACK HILLS ENERGY)
TEL: (316) 941-1654
CONTACT: DARYL KELLER
EMAIL: DARYL.KELLER@BLACKHILLSCORP.COM
TELEPHONE COMPANY (AT&T)
TEL: (316) 268-2762
CONTACT: JIM TOBEN
EMAIL: J7372@ATT.COM
CABLE COMPANY (COX COMMUNICATIONS)
TEL: (316) 260-7475
CONTACT: JEFF CAPPS
EMAIL: JEFF.CAPPS@COX.COM
FIBER OPTIC (KDOT/CENTURAY LINK)
TEL: (316) 210-2547
CONTACT: JUSTIN SPORE

PROJECT CONTACT LIST:

- SURVYOR OF RECORD
QUIKTRIP CORPORATION
JOE KIM
433 S. HYDRALIC
WICHITA, KS 67211
TEL: (316) 265-0005
ENGINEER OF RECORD
SCHWAB-EATON
ANNE STEPHENS, P.E.
8615 W. FRAZIER LANE, SUITE 2
WICHITA, KS 67212
TEL: (316) 722-4472
QT REAL ESTATE PROJECT MANAGER
QUIKTRIP CORPORATION
MATT BAER, R.L.A.
4705 S. 129TH EAST AVE.
TULSA, OK 74134
TEL: (918) 615-7140
FAX: (918) 606-8139
QT CIVIL PROJECT MANAGER
QUIKTRIP CORPORATION
MATT BAER, R.L.A.
4705 S. 129TH EAST AVE.
TULSA, OK 74134
TEL: (918) 615-7381
FAX: (918) 615-7451

BENCHMARKS:

- Site Benchmark #1
Square Cut on Top of Headwall at the South end of R.C.B. located 41' SE & 20' SW of the Westerly most N.W. Corner of subject Property.
Elev: 1283.71 NAVD88
Site Benchmark #2
Square Cut on Top of Curb located 40.5' E. & 2.3' N. of the N.E. Corner of subject Property.
Elev: 1283.65 NAVD88
Site Benchmark #3
Square Cut at N.W. Corner Concrete Pad fro Mailboxes located 134' N. & 48' E. of the S.E. Corner of subject Property.
Elev: 1284.14 NAVD88

APPROVED AS NOTED BY
CITY ENGINEER OF WICHITA
Streets
by City Engineer: Rebecca Dietz Date: 3/18/2014
NOTE TO CONTRACTOR
INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

SHEET INDEX

Table with 2 columns: NO. and TITLE. Lists sheet numbers and titles such as C001 COVER SHEET, C030 DEMOLITION PLAN, C100 SITE PLAN, etc.



PROJECT NO.: 13.W008
Schwab Eaton
8615 W. Frazier, Suite 2
Wichita, Kansas
P. 316.722.4472
F. 316.722.4479

QuikTrip No. 0313R
K-15 & 31ST STREET SOUTH
Lot 1, Block A, QuikTrip 14th Addition, an Addition to
Wichita, Sedgwick County, Kansas



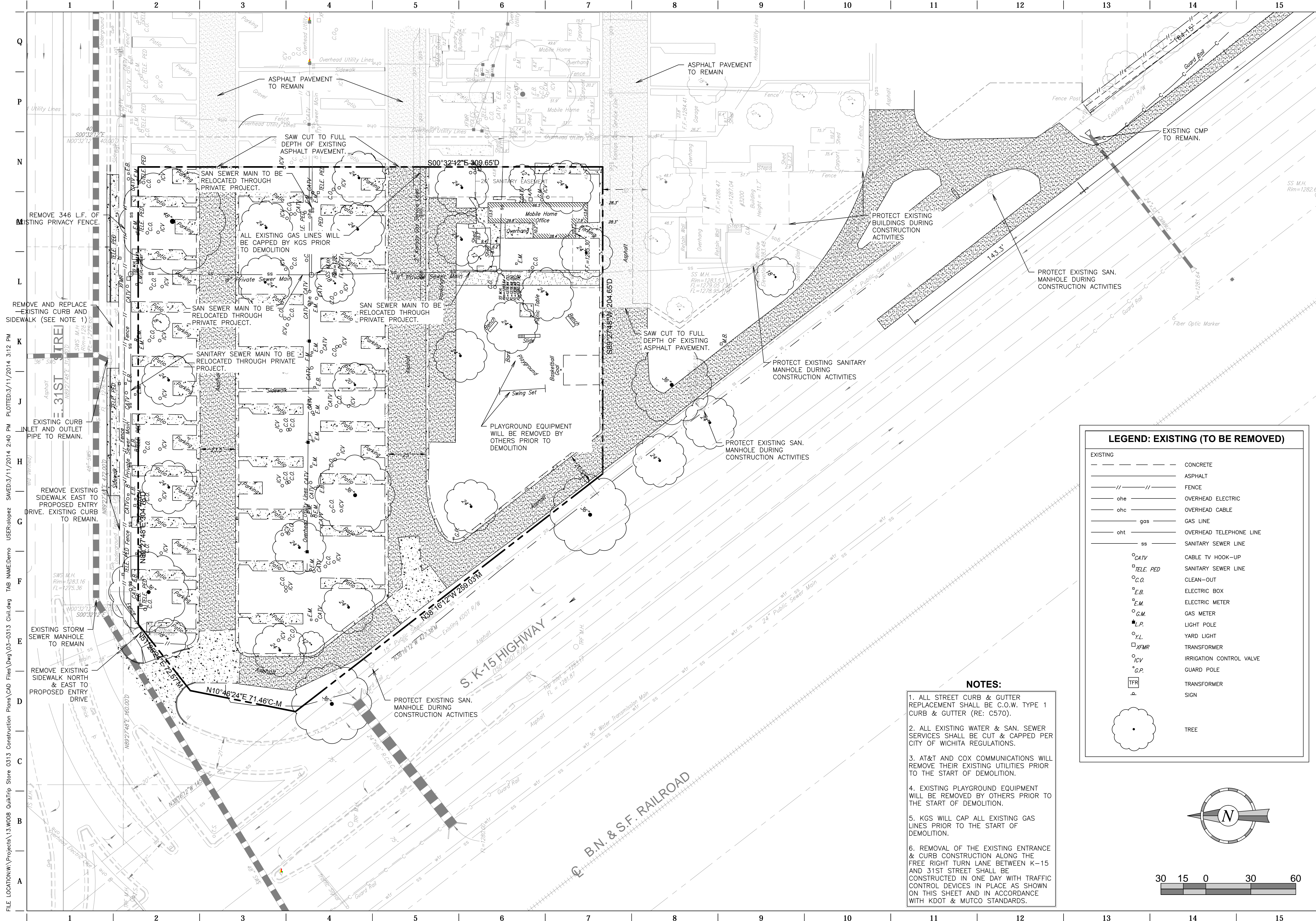
PROTOTYPE: P-76 (8/01/13)
DIVISION: WICHITA
VERSION: 001
DESIGNED BY: AS
DRAWN BY: AL
REVIEWED BY: MB

Table with 2 columns: REV. DATE and DESCRIPTION. Lists revision history including dates like 1/9/13 and descriptions like 'QT COMMENT REVISIONS'.

ORIGINAL ISSUE DATE: 08/26/2013
SHEET TITLE: COVER SHEET
SHEET NUMBER: C001



FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\DWG\03-0313 Civil.dwg TAB NAME: Cover USER: rlopez SWED: 3/11/2014 2:24 PM PLOTTED: 3/11/2014 2:28 PM

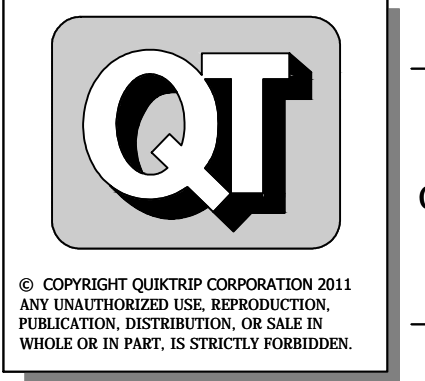


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PROJECT NO.: 13.W008  
**Schwab Eaton**  
 8615 W. Frazier, Suite 2  
 Wichita, Kansas  
 P. 316.722.4472  
 F. 316.722.4479

**QuikTrip No. 0313R**  
 K-15 & 31ST STREET SOUTH  
 Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
 Wichita, Sedgwick County, Kansas



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REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

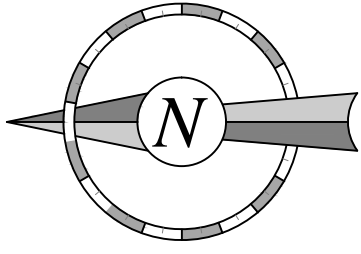
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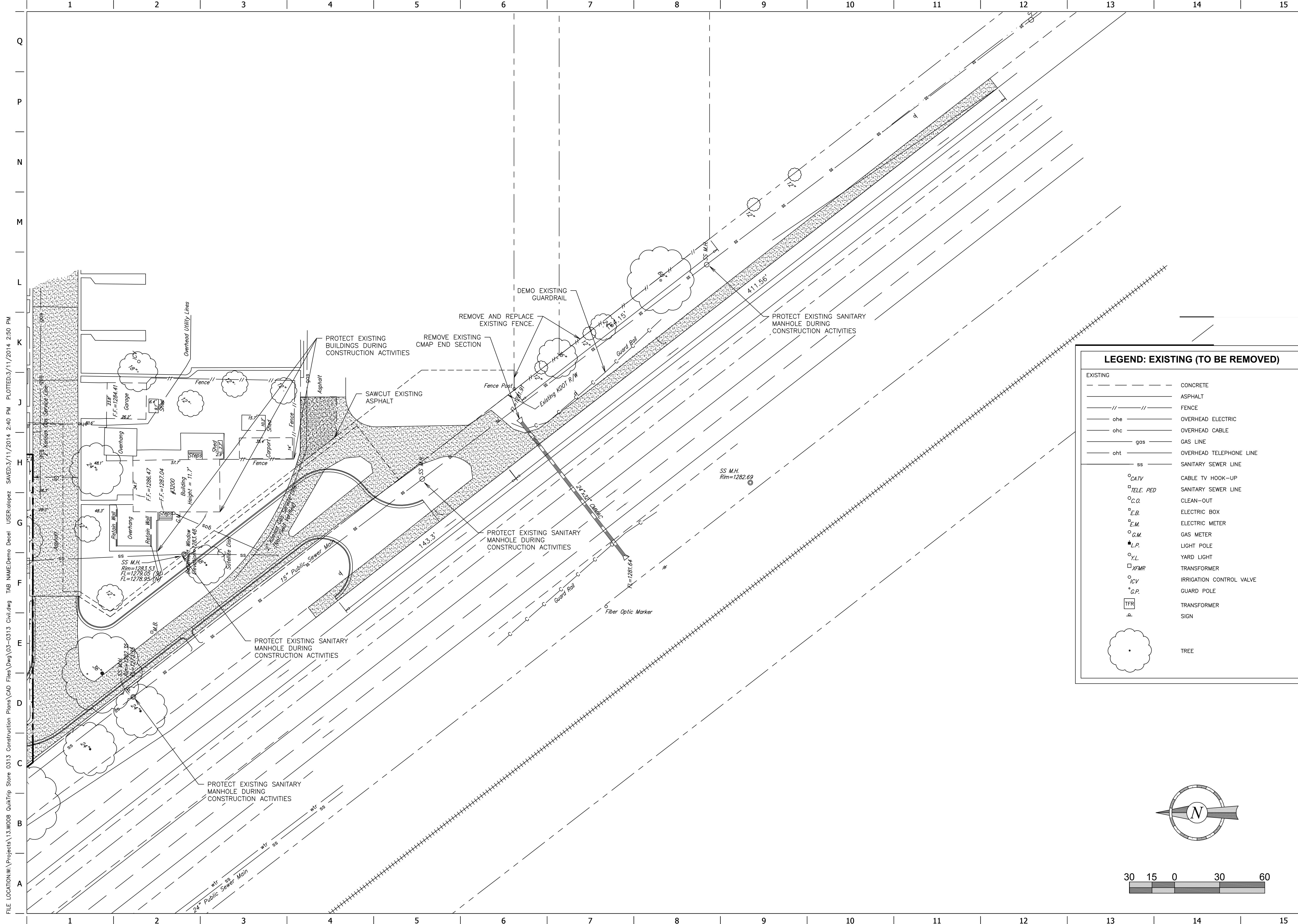
**LEGEND: EXISTING (TO BE REMOVED)**

EXISTING	CONCRETE
ASPHALT	ASPHALT
FENCE	FENCE
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
OVERHEAD CABLE	OVERHEAD CABLE
GAS LINE	GAS LINE
OVERHEAD TELEPHONE LINE	OVERHEAD TELEPHONE LINE
SANITARY SEWER LINE	SANITARY SEWER LINE
CABLE TV HOOK-UP	CABLE TV HOOK-UP
SANITARY SEWER LINE	SANITARY SEWER LINE
CLEAN-OUT	CLEAN-OUT
ELECTRIC BOX	ELECTRIC BOX
ELECTRIC METER	ELECTRIC METER
GAS METER	GAS METER
LIGHT POLE	LIGHT POLE
YARD LIGHT	YARD LIGHT
TRANSFORMER	TRANSFORMER
IRRIGATION CONTROL VALVE	IRRIGATION CONTROL VALVE
GUARD POLE	GUARD POLE
TRANSFORMER	TRANSFORMER
SIGN	SIGN
TREE	TREE

**NOTES:**

- ALL STREET CURB & GUTTER REPLACEMENT SHALL BE C.O.W. TYPE 1 CURB & GUTTER (RE: C570).
- ALL EXISTING WATER & SAN. SEWER SERVICES SHALL BE CUT & CAPPED PER CITY OF WICHITA REGULATIONS.
- AT&T AND COX COMMUNICATIONS WILL REMOVE THEIR EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION.
- EXISTING PLAYGROUND EQUIPMENT WILL BE REMOVED BY OTHERS PRIOR TO THE START OF DEMOLITION.
- KGS WILL CAP ALL EXISTING GAS LINES PRIOR TO THE START OF DEMOLITION.
- REMOVAL OF THE EXISTING ENTRANCE & CURB CONSTRUCTION ALONG THE FREE RIGHT TURN LANE BETWEEN K-15 AND 31ST STREET SHALL BE CONSTRUCTED IN ONE DAY WITH TRAFFIC CONTROL DEVICES IN PLACE AS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH KDOT & MUTCO STANDARDS.

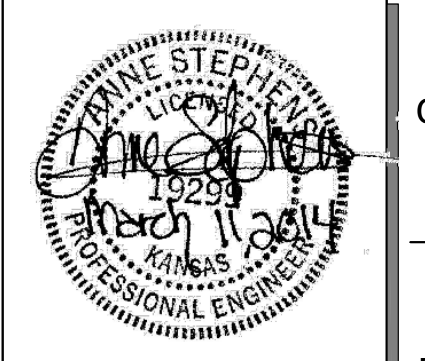
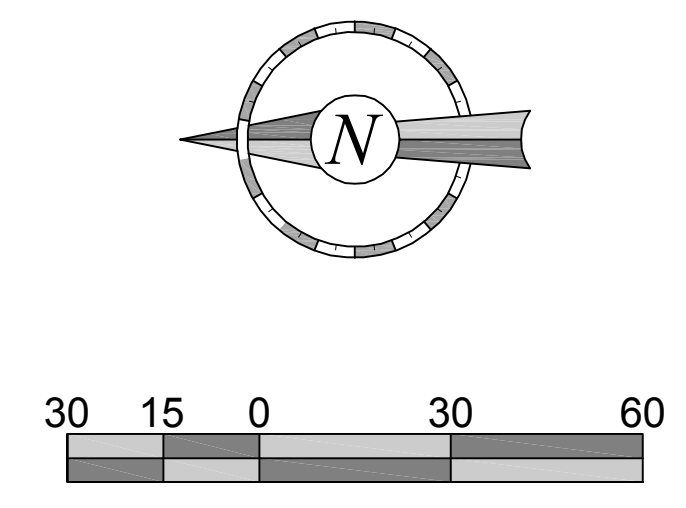




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**LEGEND: EXISTING (TO BE REMOVED)**

---	CONCRETE
----	ASPHALT
-	FENCE
ohe	OVERHEAD ELECTRIC
ohc	OVERHEAD CABLE
gas	GAS LINE
oht	OVERHEAD TELEPHONE LINE
ss	SANITARY SEWER LINE
oCATV	CABLE TV HOOK-UP
oTELE. PED	SANITARY SEWER LINE
oC.O.	CLEAN-OUT
oE.B.	ELECTRIC BOX
oE.M.	ELECTRIC METER
oG.M.	GAS METER
oL.P.	LIGHT POLE
oY.L.	YARD LIGHT
oTFR	TRANSFORMER
oICV	IRRIGATION CONTROL VALVE
oG.P.	GUARD POLE
oTFR	TRANSFORMER
o	SIGN
(Tree symbol)	TREE

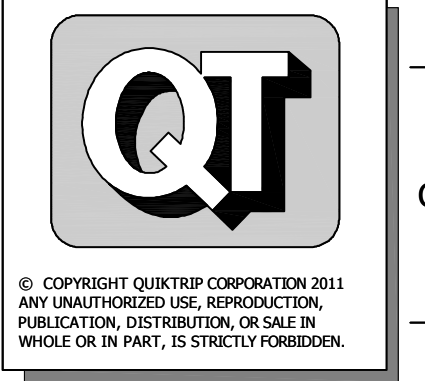


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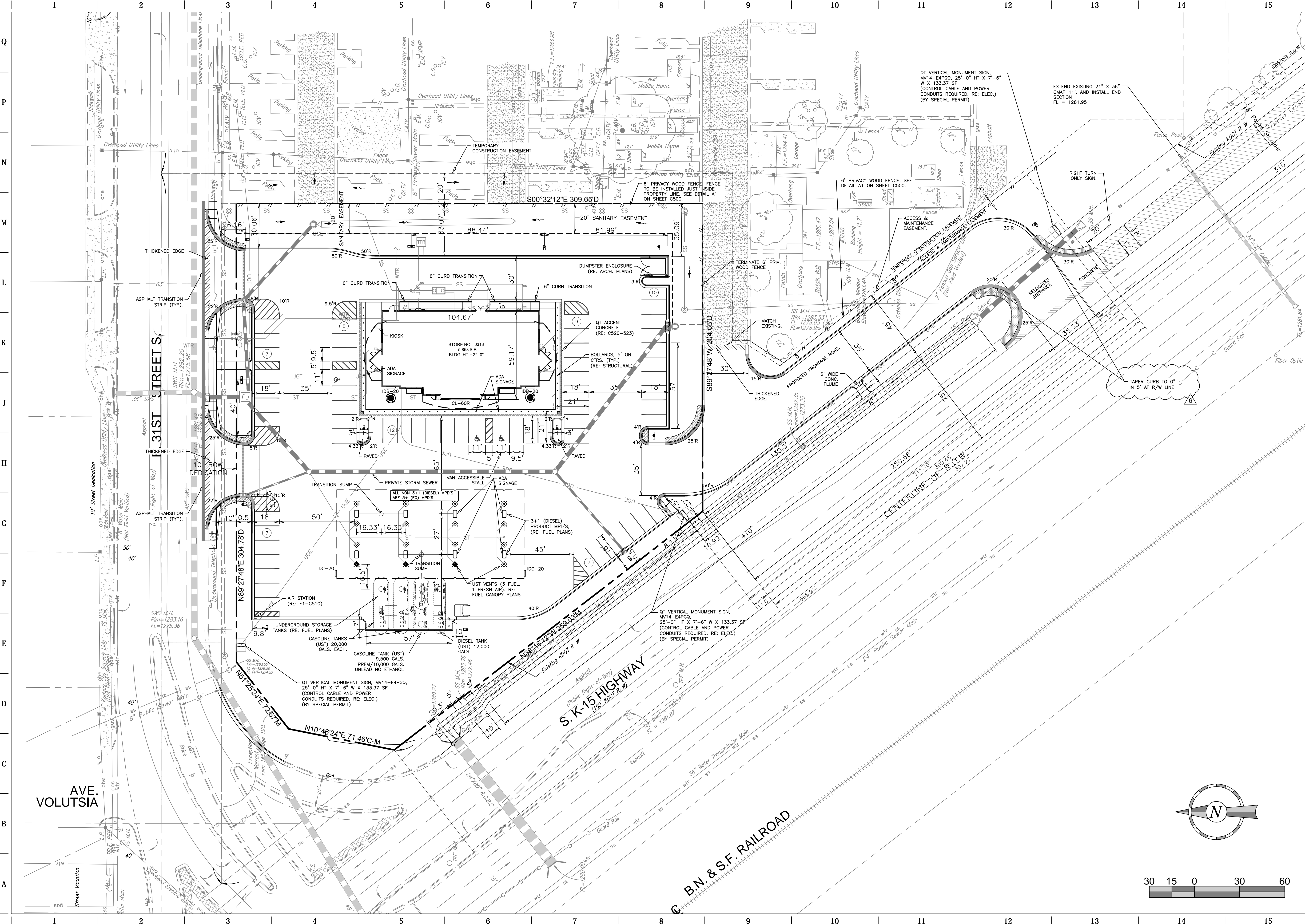
REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/27/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/27/13	REVISED PER CITY COMMENTS
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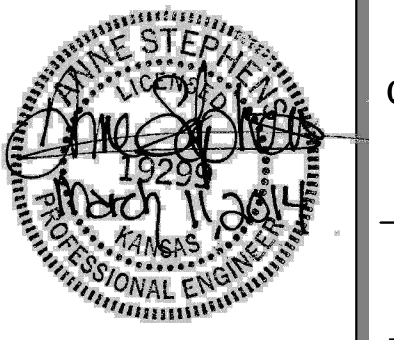
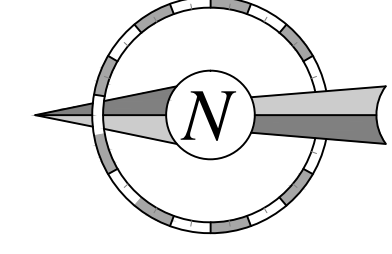
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DECAL LANE DEMOLITION

SHEET NUMBER:  
**C031**

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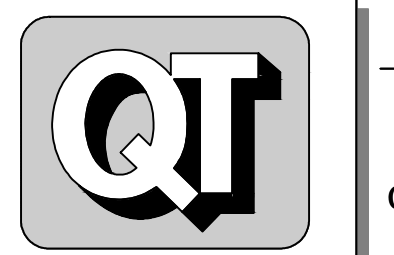


AVE. VOLUTSIA



PROJECT NO.: 13.W008  
**Schwab Eaton**  
8615 W. Frazier, Suite 2  
Wichita, Kansas  
P. 316.722.4472  
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ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C100

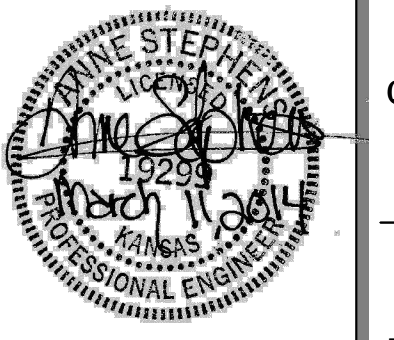
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**GENERAL NOTES:**

1. CONTRACTOR SHALL CLOSE THE RIGHT LANE OF NORTHBOUND TRAFFIC PER KDOT STANDARD DETAIL TE744. LANE CLOSURE SHALL BE IN EFFECT ONLY DURING WORK HOURS. TRAFFIC CHANNELIZATION DEVICES SHALL BE MOVED TO THE EDGE OF THE LANE AT THE END OF EACH WORKDAY TO ALLOW TRAFFIC TO UTILIZE THE BOTH NORTHBOUND LANES. APPROPRIATE SIGNAGE SHALL BE DEPLOYED INFORMING THE TRAVELING PUBLIC OF THE EDGE DROP AS REQUIRED BY KDOT STANDARDS.

**SITE LEGEND**

- BOUNDARY LINE
- CONCRETE CURB AND GUTTER
- QT ACCENT CONCRETE
- MOUNTABLE CURB W/RADIUS PROTECTOR
- PARKING SPACE INDICATOR
- AREA LIGHT
- MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
- TRANSFORMER
- FUEL SYSTEM ACCESS MANWAY
- PROPOSED ASPHALT PAVEMENT

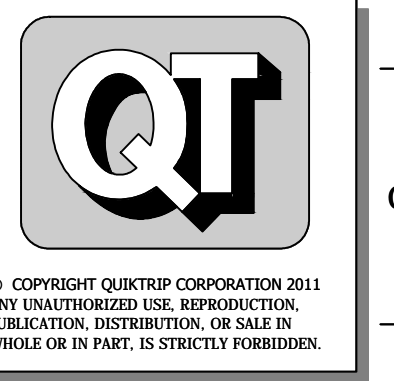


PROJECT NO.: 13.W008

**Schwab Eaton**

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F. 316.722.4479

**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
Wichita, Sedgwick County, Kansas



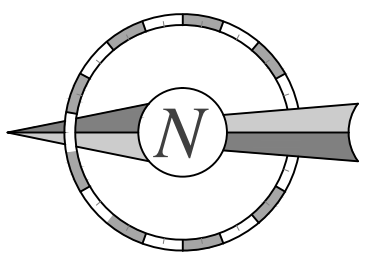
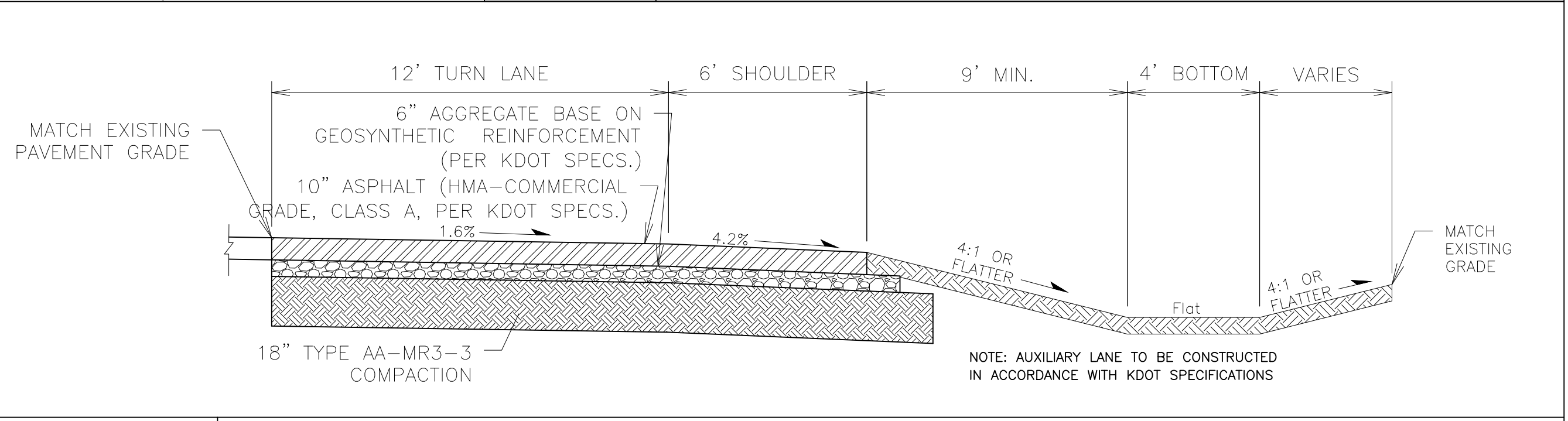
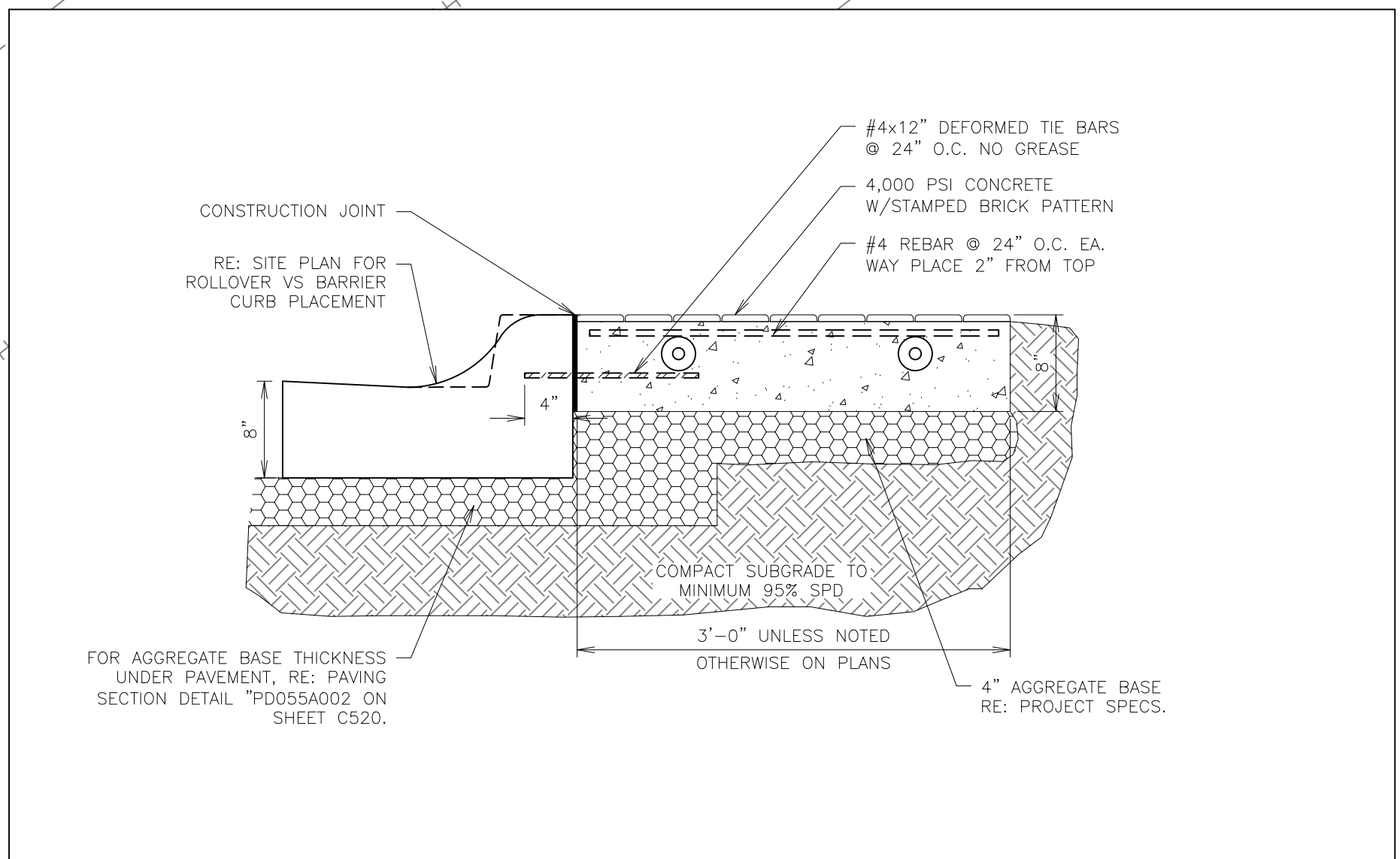
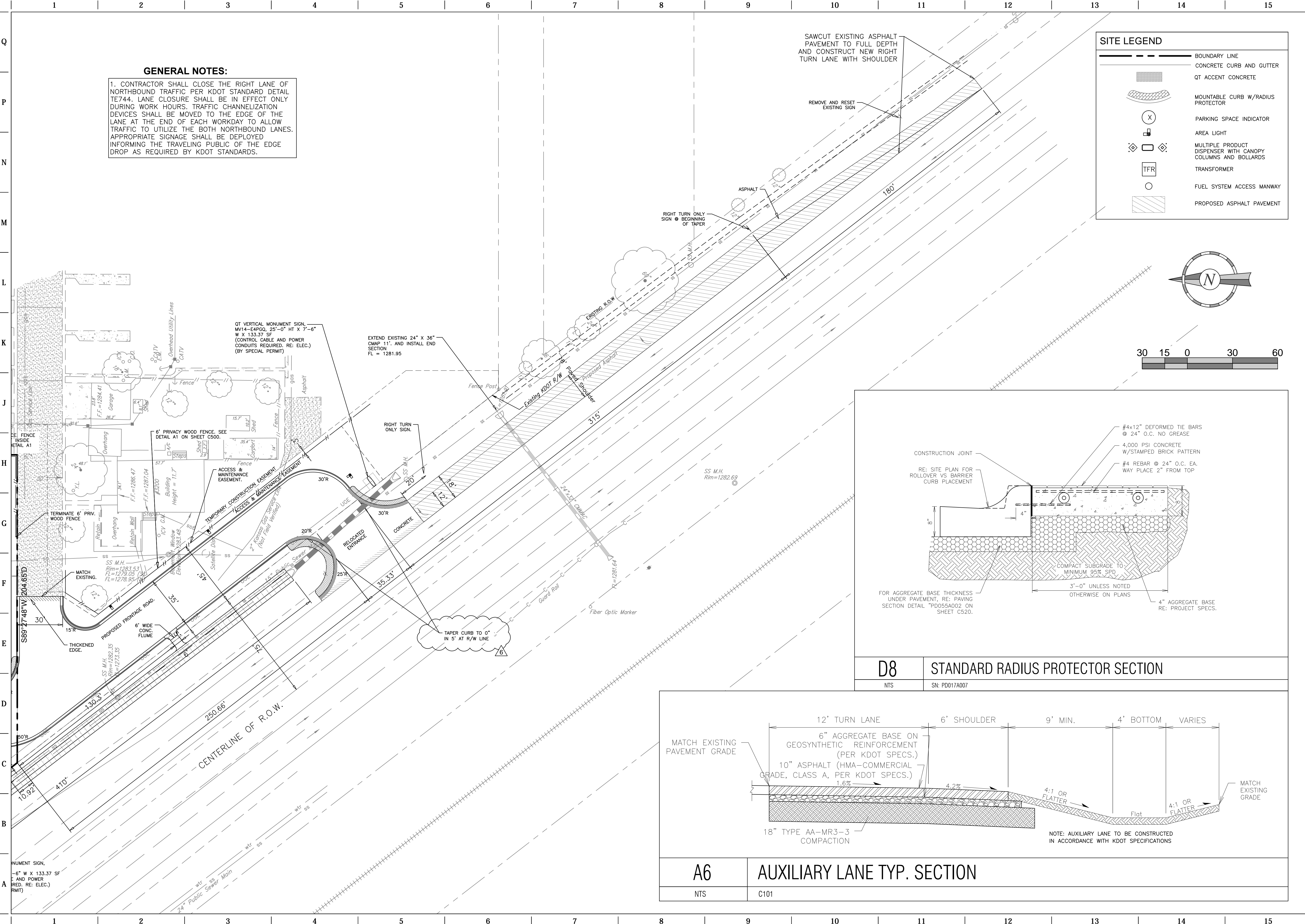
PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	10/2/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/11/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT.1, SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

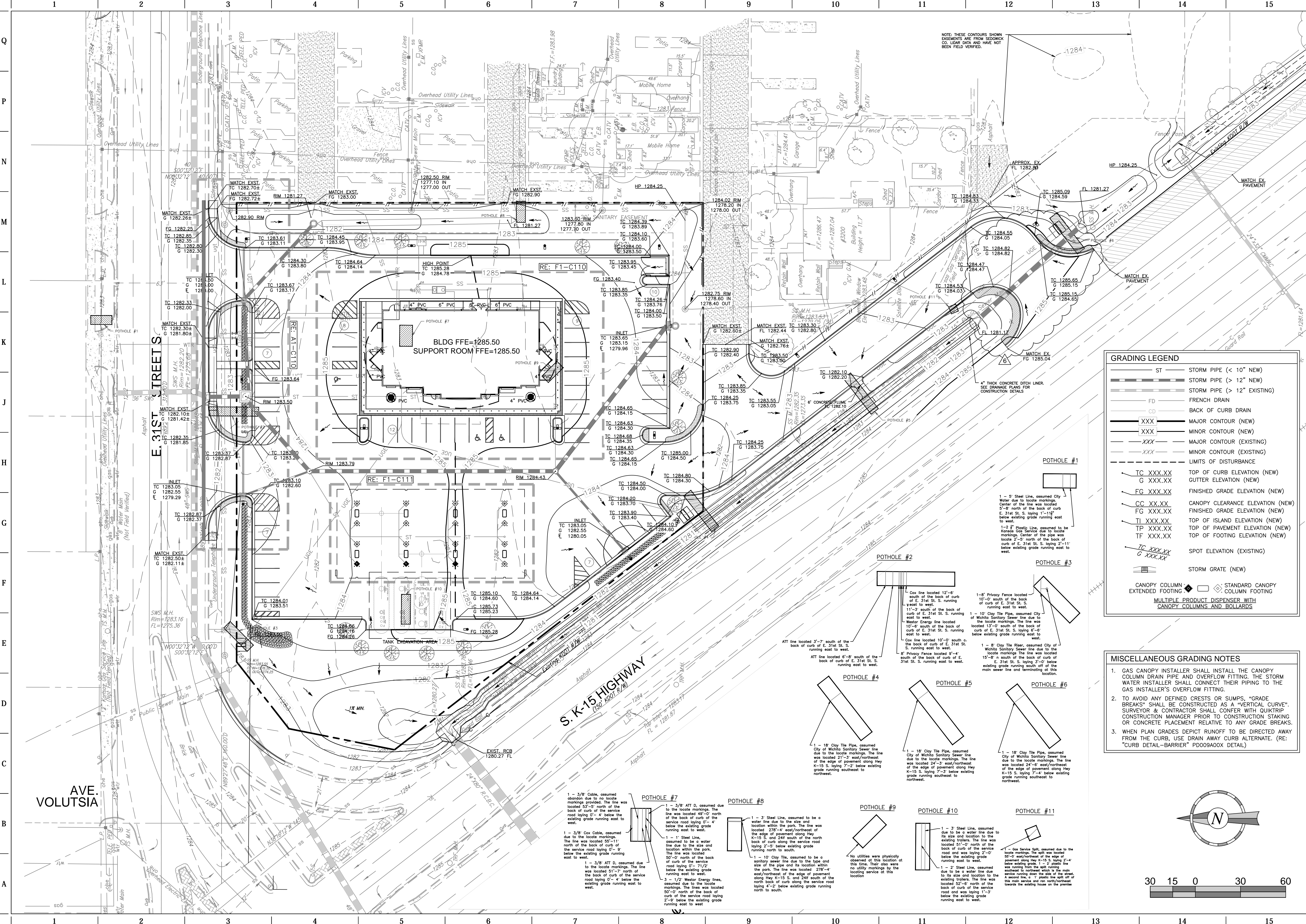
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
DECEL LANE SITE PLAN

SHEET NUMBER:  
**C101**



FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg\03-0313 Civil.dwg TAB NAME: Grading USER: alopez3 SAV: 2014.11.03 2:40 PM PLOTTED: 2014.11.03 3:15 PM



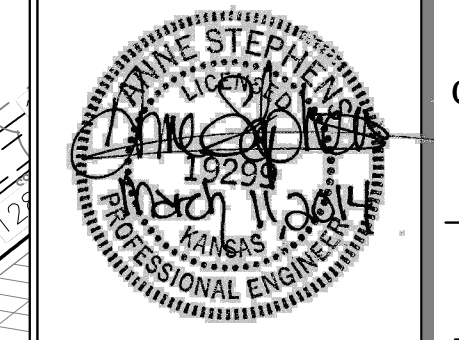
### GRADING LEGEND

ST	STORM PIPE (< 10" NEW)
ST	STORM PIPE (> 12" NEW)
ST	STORM PIPE (> 12" EXISTING)
FD	FRENCH DRAIN
CD	BACK OF CURB DRAIN
XXX	MAJOR CONTOUR (NEW)
XXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
---	LIMITS OF DISTURBANCE
TC XXX.XX	TOP OF CURB ELEVATION (NEW)
G XXX.XX	GUTTER ELEVATION (NEW)
FG XXX.XX	FINISHED GRADE ELEVATION (NEW)
CC XXX.XX	CANOPY CLEARANCE ELEVATION (NEW)
FG XXX.XX	FINISHED GRADE ELEVATION (NEW)
TI XXX.XX	TOP OF ISLAND ELEVATION (NEW)
TP XXX.XX	TOP OF PAVEMENT ELEVATION (NEW)
TF XXX.XX	TOP OF FOOTING ELEVATION (NEW)
TC XXX.XX	SPOT ELEVATION (EXISTING)
G XXX.XX	SPOT ELEVATION (EXISTING)
ST	STORM GRATE (NEW)
CC	CANOPY COLUMN
EXT	EXTENDED FOOTING
ST	STANDARD CANOPY COLUMN FOOTING

MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS

### MISCELLANEOUS GRADING NOTES

- GAS CANOPY INSTALLER SHALL INSTALL THE CANOPY COLUMN DRAIN PIPE AND OVERFLOW FITTING. THE STORM WATER INSTALLER SHALL CONNECT THEIR PIPING TO THE GAS INSTALLER'S OVERFLOW FITTING.
- TO AVOID ANY DEFINED CRESTS OR SUMPS, "GRADE BREAKS" SHALL BE CONSTRUCTED AS A "VERTICAL CURVE". SURVEYOR & CONTRACTOR SHALL CONFER WITH QUIKTRIP CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION STAKING OR CONCRETE PLACEMENT RELATIVE TO ANY GRADE BREAKS.
- WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" PD008A00X DETAIL)

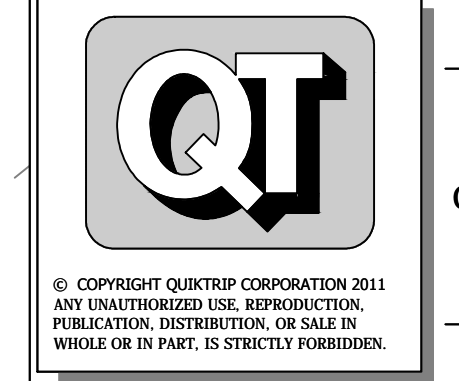


PROJECT NO.: 13.W008

**Schwab Eaton**

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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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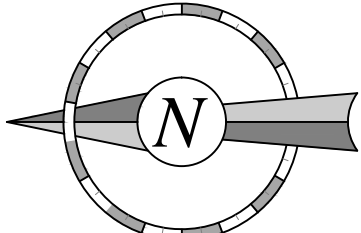
PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	10/2/13	ADD WEST DITCH LINER TO K-15 RCB
2	10/17/13	REVISED PER CITY COMMENTS
3	10/16/13	REVISION TO ADA DETAIL FT.1, SHEET C510
4	11/6/13	QT FINAL COMMENT REVISIONS
5	11/26/13	KDOT COMMENT REVISIONS
6	03/11/14	PPP # ON TITLE SHEET
7		

ORIGINAL ISSUE DATE: 08/26/2013

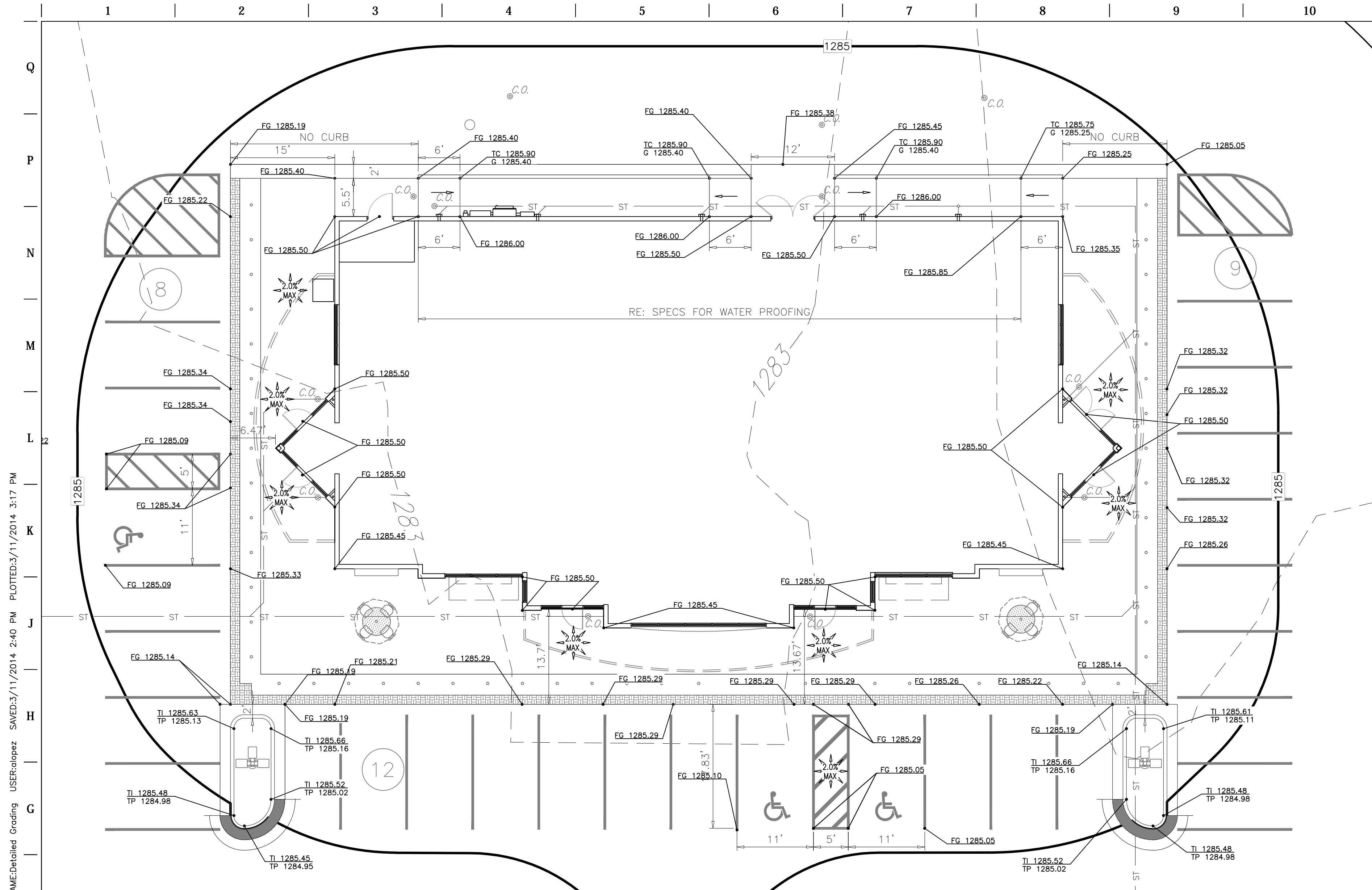
SHEET TITLE:  
**GRADING PLAN**

SHEET NUMBER:  
**C110**



- POTHOLE #1**
- 1 - 5" Steel Line, assumed City of Wichita Sanitary Sewer line due to the locate markings. Center of the line was located 8'-8" north of the back of curb of E. 31st St. S. lying 1'-11" below existing grade running east to west.
- 1-2" Plastic Line, assumed to be Kansas Gas Service due to the locate markings. Center of the pipe was locate 2'-3" north of the back of curb of E. 31st St. S. lying 2'-11" below existing grade running east to west.
- POTHOLE #2**
- 1 - 8" Privacy Fence located 12'-6" south of the back of curb of E. 31st St. S. running east to west.
- 1 - 10" Clay Tile Pipe, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 13'-0" south of the back of curb of E. 31st St. S. lying 6'-6" below existing grade running east to west.
- 1 - 8" Clay Tile Riser, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 15'-8" north of the back of curb of E. 31st St. S. lying 3'-0" below existing grade running south of the main sewer line and terminating at this location.
- POTHOLE #3**
- 1 - 8" Privacy Fence located 10'-0" south of the back of curb of E. 31st St. S. running east to west.
- 1 - 10" Clay Tile Pipe, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 24'-3" east/northeast of the edge of pavement along Hwy K-15 S. lying 7'-2" below existing grade running southeast to northwest.
- POTHOLE #4**
- 1 - 15" Clay Tile Pipe, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 21'-3" east/northeast of the edge of pavement along Hwy K-15 S. and 24' east/northeast of the north back of curb along the service road lying 2'-5" below existing grade running southeast to northwest.
- 1 - 8" Privacy Fence located 9'-4" south of the back of curb of E. 31st St. S. running east to west.
- POTHOLE #5**
- 1 - 18" Clay Tile Pipe, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 24'-6" east/northeast of the edge of pavement along Hwy K-15 S. lying 7'-4" below existing grade running southeast to northwest.
- POTHOLE #6**
- 1 - 18" Clay Tile Pipe, assumed City of Wichita Sanitary Sewer line due to the locate markings. The line was located 24'-6" east/northeast of the edge of pavement along Hwy K-15 S. lying 7'-4" below existing grade running southeast to northwest.
- POTHOLE #7**
- 1 - 3/8" Cox Cable, assumed due to the locate markings. The line was located 55'-11" north of the back of curb of the service road lying 0'-4" below the existing grade running east to west.
- 1 - 1" Steel Line, assumed due to the locate markings. The line was located 51'-7" north of the back of curb of the service road lying 0'-4" below the existing grade running east to west.
- 1 - 3/8" ATT D, assumed due to the locate markings. The line was located 49'-0" north of the back of curb of the service road lying 0'-4" below the existing grade running east to west.
- 1 - 1" Steel Line, assumed due to the locate markings. The line was located 51'-7" north of the back of curb of the service road lying 0'-4" below the existing grade running east to west.
- 1 - 1/2" Westar Energy Lines, assumed due to the locate markings. The line was located 50'-0" north of the back of curb of the service road lying 2'-9" below the existing grade running east to west.
- POTHOLE #8**
- 1 - 3" Steel Line, assumed to be a water line due to the size and location within the park. The line was located 278'-4" east/northeast of the edge of pavement along Hwy K-15 S. and 24' east/northeast of the north back of curb along the service road lying 4'-2" below existing grade running north to south.
- POTHOLE #9**
- 1 - 10" Clay Tile, assumed to be a sanitary sewer line due to the type and size of the pipe and its location within the park. The line was located 278'-4" east/northeast of the edge of pavement along Hwy K-15 S. and 24' east/northeast of the north back of curb along the service road lying 4'-2" below existing grade running north to south.
- POTHOLE #10**
- 1 - 3" Steel Line, assumed due to be a water line due to its size and location to the existing trailers. The line was located 51'-0" north of the back of curb of the service road and was lying 2'-0" below the existing grade running east to west.
- 1 - 2" Steel Line, assumed due to be a water line due to its size and location to the existing trailers. The line was located 52'-6" north of the back of curb of the service road and was lying 1'-3" below the existing grade running east to west.
- POTHOLE #11**
- 1 - 6" Service Ditch, assumed due to the locate markings. The ditch was located 25'-0" east/northeast of the edge of pavement along Hwy K-15 S. lying 2'-4" below the existing grade. A 1" plastic line in the ditch was running down the side of the street. A second 1" plastic line was off of the main sewer and ran north/northeast towards the existing house on the premises.





**BENCHMARKS**

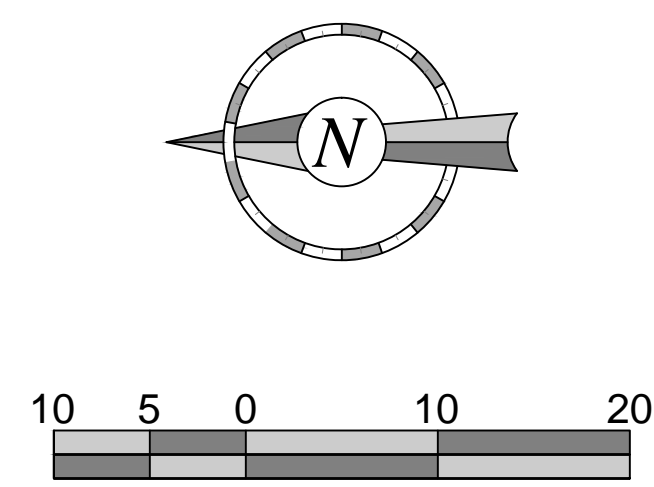
Site Benchmark #1  
Square Cut on Top of Headwall at the South end of R.C.B.C. located 41' SE & 20' SW of the Westerly most N.W. Corner of subject Property.  
Elev: 1283.71 NAVD88

Site Benchmark #2  
Square Cut on Top of Curb located 40.5' E. & 2.3' N. of the N.E. Corner of subject Property.  
Elev: 1283.65 NAVD88

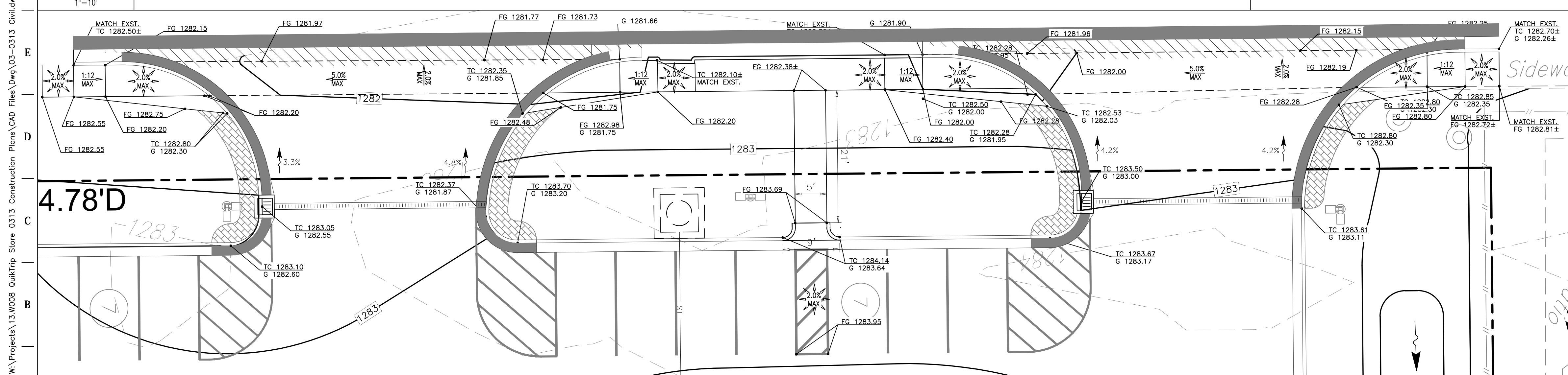
Site Benchmark #3  
Square Cut at N.W. Corner Concrete Pad for Mailboxes located 134' N. & 48' E. of the S.E. Corner of subject Property.  
Elev: 1284.14 NAVD88

**GRADING LEGEND**

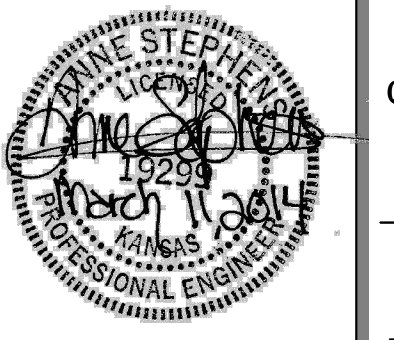
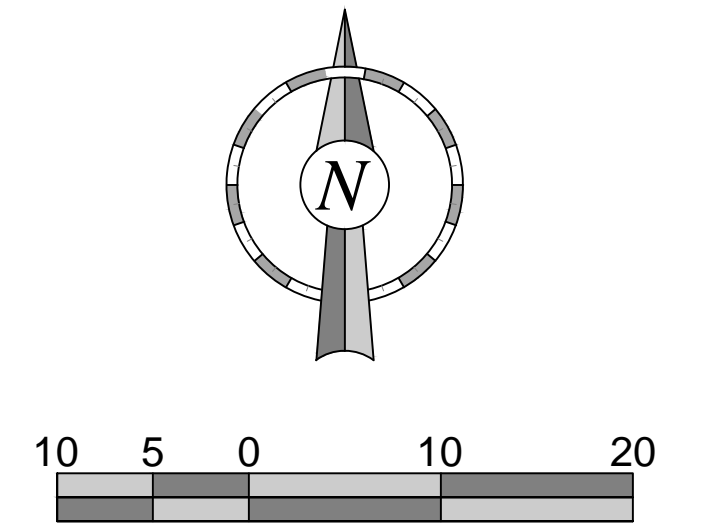
- XXX MAJOR CONTOUR (NEW)
- XXX MINOR CONTOUR (NEW)
- XXX MAJOR CONTOUR (EXISTING)
- XXX MINOR CONTOUR (EXISTING)
- LIMITS OF DISTURBANCE
- TC XXX.XX TOP OF CURB ELEVATION (NEW)
- G XXX.XX GUTTER ELEVATION (NEW)
- FG XXX.XX FINISHED GRADE ELEVATION (NEW)
- CC XX.XX CANOPY CLEARANCE ELEVATION (NEW)
- FG XXX.XX FINISHED GRADE ELEVATION (NEW)
- TI XXX.XX TOP OF ISLAND ELEVATION (NEW)
- TP XXX.XX TOP OF PAVEMENT ELEVATION (NEW)
- TC XXX.XX G XXX.XX SPOT ELEVATION (EXISTING)
- STORM GRATE (NEW)
- PROPOSED RIDGE LINE



**F1 BUILDING ISLAND GRADING DETAIL**  
1"=10'



**A1 NORTH ENTRANCES GRADING DETAIL**  
1"=10'

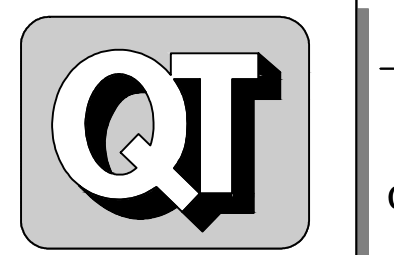


PROJECT NO.: 13.W008

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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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PROTOTYPE: P-76 (8/01/13)

DIVISION: WICHITA

VERSION: 001

DESIGNED BY: AS

DRAWN BY: AL

REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	1/9/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT.1, SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

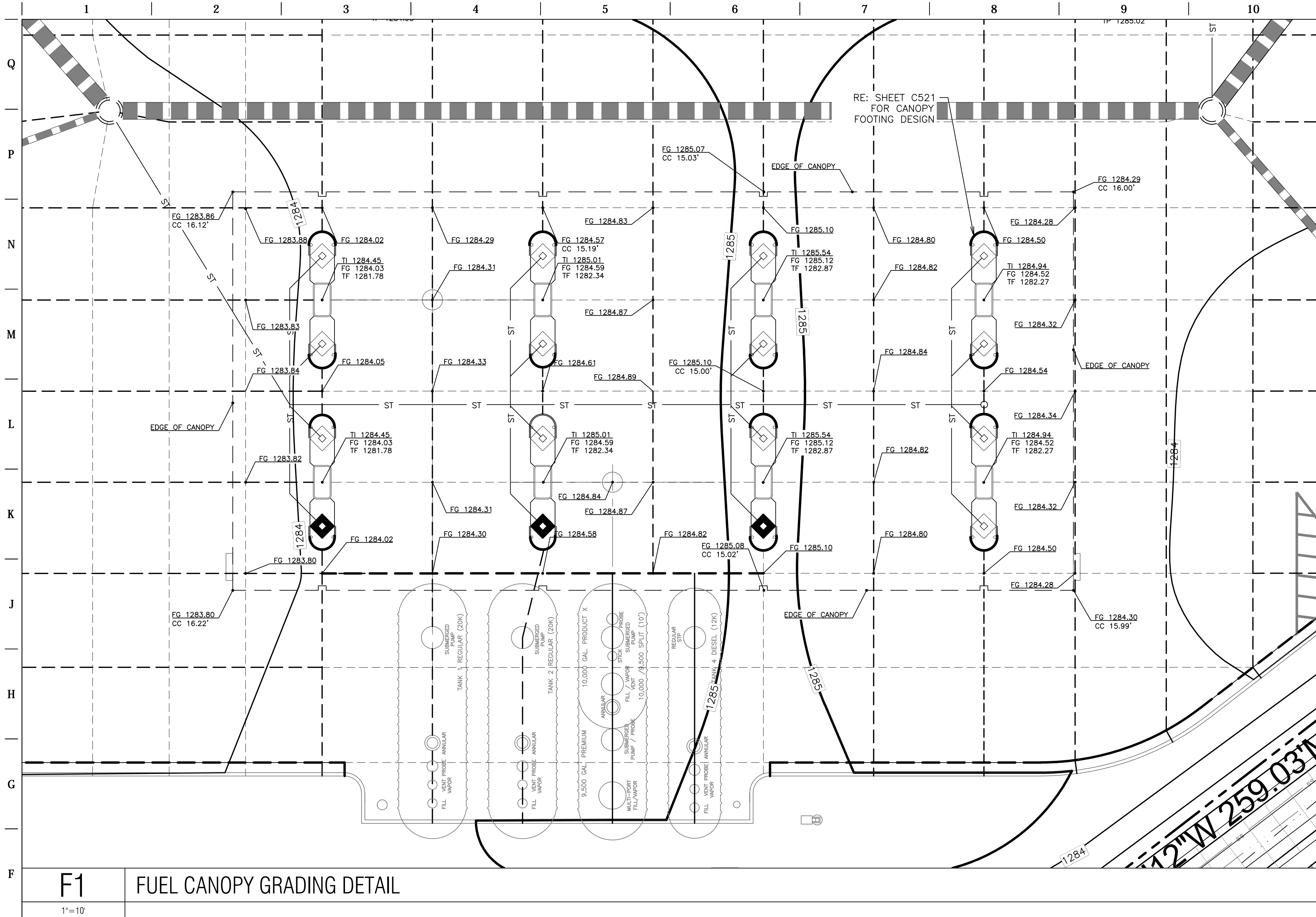
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
GRADING DETAIL PLANS

SHEET NUMBER:  
**C112**

FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\03-0313 Civil.dwg TAB NAME: Detailed Grading USER: alopez SAVED: 3/11/2014 2:40 PM PLOTTED: 3/11/2014 3:17 PM

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**BENCHMARKS**

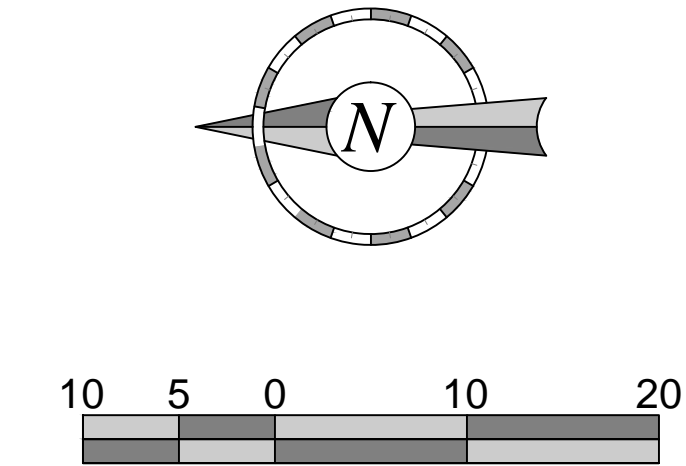
Site Benchmark #1  
Square Cut on Top of Headwall at the South end of R.C.B.C. located 41' SE & 20' SW of the Westerly most N.W. Corner of subject Property.  
Elev: 1283.71 NAVD88

Site Benchmark #2  
Square Cut on Top of Curb located 40.5' E. & 2.3' N. of the N.E. Corner of subject Property.  
Elev: 1283.65 NAVD88

Site Benchmark #3  
Square Cut at N.W. Corner Concrete Pad for Mailboxes located 134' N. & 48' E. of the S.E. Corner of subject Property.  
Elev: 1284.14 NAVD88

**GRADING LEGEND**

ST	STORM PIPE (< 10" NEW)
ST	STORM PIPE (> 12" NEW)
ST	STORM PIPE (> 12" EXISTING)
FD	FRENCH DRAIN
XXX	MAJOR CONTOUR (NEW)
XXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
---	LIMITS OF DISTURBANCE
TC XXX.XX	TOP OF CURB ELEVATION (NEW)
G XXX.XX	GUTTER ELEVATION (NEW)
FG XXX.XX	FINISHED GRADE ELEVATION (NEW)
CC XX.XX	CANOPY CLEARANCE ELEVATION (NEW)
FG XXX.XX	FINISHED GRADE ELEVATION (NEW)
TL XXX.XX	TOP OF ISLAND ELEVATION (NEW)
TP XXX.XX	TOP OF PAVEMENT ELEVATION (NEW)
TC XXX.XX	SPOT ELEVATION (EXISTING)
G XXX.XX	SPOT ELEVATION (EXISTING)
SG	STORM GRATE (NEW)
CC	CANOPY COLUMN
EF	EXTENDED FOOTING
CC	STANDARD CANOPY COLUMN FOOTING
CC	COLUMN FOOTING
---	MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
---	ISOLATION - DOWEL
---	ISOLATION - NO DOWEL
---	CONSTRUCTION - DOWEL
---	CONSTRUCTION - NO DOWEL
---	CONSTRUCTION - TIED
---	CONTRACTION - DOWEL
---	CONTRACTION - NO DOWEL



**F1 FUEL CANOPY GRADING DETAIL**

1"=10'

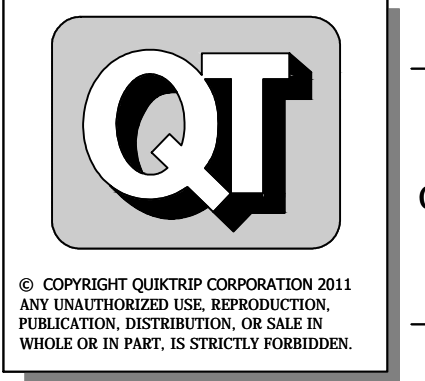


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PROTOTYPE:	P-76 (8/01/13)
DIVISION:	WICHITA
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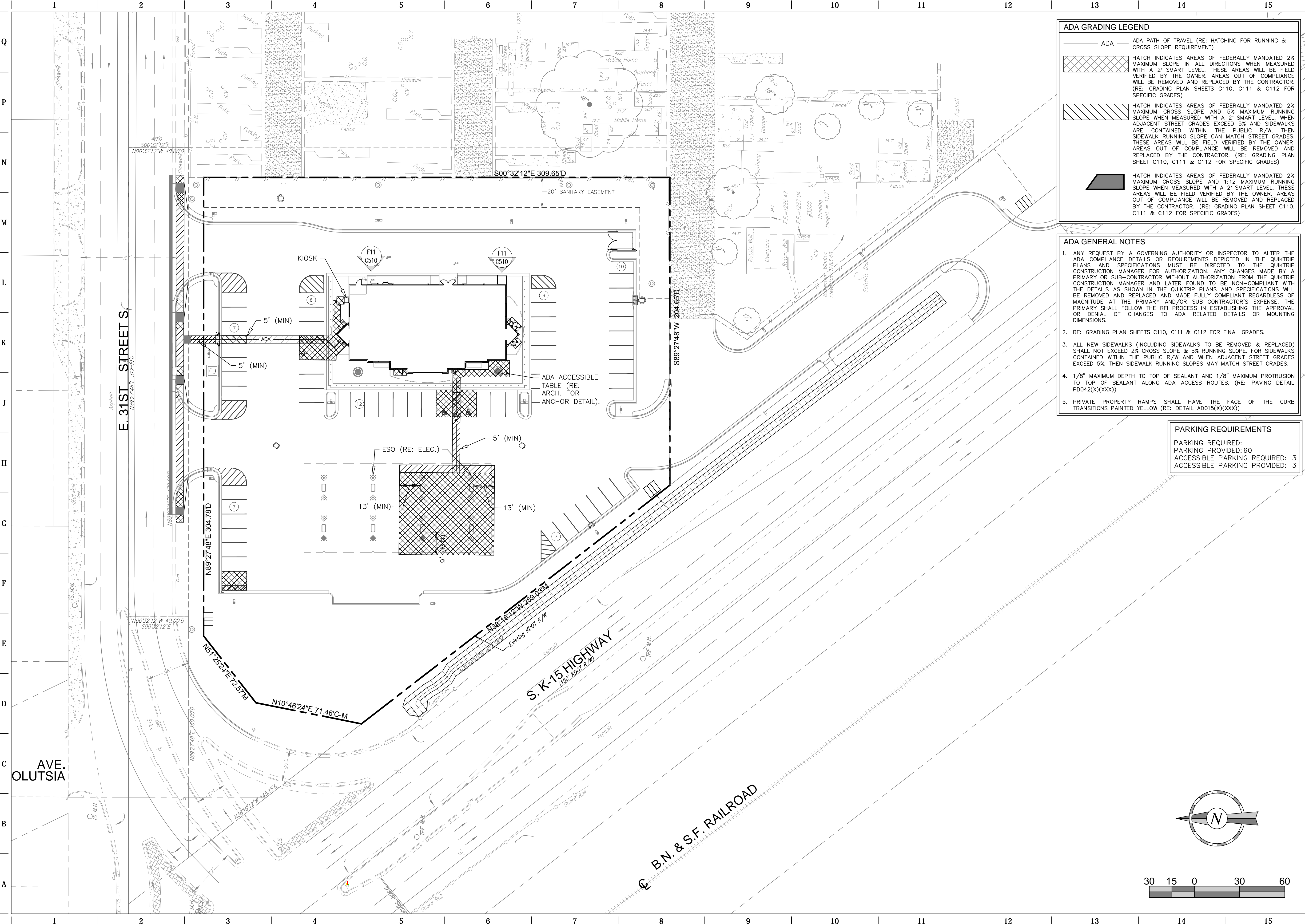
REV	DATE	DESCRIPTION
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2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL F11, SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
**FUEL CANOPY GRADING PLAN**

SHEET NUMBER:  
**C113**

FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\03-0313 Civil.dwg TAB NAME: ADA USER: rolpezp3 SAV: 11/2014 2:40 PM PLOTTED: 3/11/2014 3:30 PM



**ADA GRADING LEGEND**

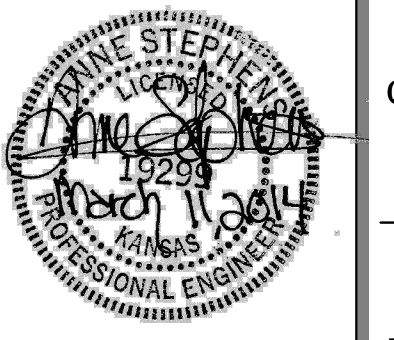
- ADA — ADA PATH OF TRAVEL (RE: HATCHING FOR RUNNING & CROSS SLOPE REQUIREMENT)
- [Hatched Area] HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM CROSS SLOPE IN ALL DIRECTIONS WHEN MEASURED WITH A 2" SMART LEVEL. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OUT OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEETS C110, C111 & C112 FOR SPECIFIC GRADES)
- [Hatched Area] HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM RUNNING SLOPE WHEN MEASURED WITH A 2" SMART LEVEL. WHEN ADJACENT STREET GRADES EXCEED 5% AND SIDEWALKS ARE CONTAINED WITHIN THE PUBLIC R/W, THEN SIDEWALK RUNNING SLOPE CAN MATCH STREET GRADES. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OUT OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEET C110, C111 & C112 FOR SPECIFIC GRADES)
- [Hatched Area] HATCH INDICATES AREAS OF FEDERALLY MANDATED 2% MAXIMUM CROSS SLOPE AND 1:12 MAXIMUM RUNNING SLOPE WHEN MEASURED WITH A 2" SMART LEVEL. THESE AREAS WILL BE FIELD VERIFIED BY THE OWNER. AREAS OUT OF COMPLIANCE WILL BE REMOVED AND REPLACED BY THE CONTRACTOR. (RE: GRADING PLAN SHEET C110, C111 & C112 FOR SPECIFIC GRADES)

**ADA GENERAL NOTES**

- ANY REQUEST BY A GOVERNING AUTHORITY OR INSPECTOR TO ALTER THE ADA COMPLIANCE DETAILS OR REQUIREMENTS DEPICTED IN THE QUIKTRIP PLANS AND SPECIFICATIONS MUST BE DIRECTED TO THE QUIKTRIP CONSTRUCTION MANAGER FOR AUTHORIZATION. ANY CHANGES MADE BY A PRIMARY OR SUB-CONTRACTOR WITHOUT AUTHORIZATION FROM THE QUIKTRIP CONSTRUCTION MANAGER AND LATER FOUND TO BE NON-COMPLIANT WITH THE DETAILS AS SHOWN IN THE QUIKTRIP PLANS AND SPECIFICATIONS WILL BE REMOVED AND REPLACED AND MADE FULLY COMPLIANT REGARDLESS OF MAGNITUDE AT THE PRIMARY AND/OR SUB-CONTRACTOR'S EXPENSE. THE PRIMARY SHALL FOLLOW THE RFI PROCESS IN ESTABLISHING THE APPROVAL OR DENIAL OF CHANGES TO ADA RELATED DETAILS OR MOUNTING DIMENSIONS.
- RE: GRADING PLAN SHEETS C110, C111 & C112 FOR FINAL GRADES.
- ALL NEW SIDEWALKS (INCLUDING SIDEWALKS TO BE REMOVED & REPLACED) SHALL NOT EXCEED 2% CROSS SLOPE & 5% RUNNING SLOPE FOR SIDEWALKS CONTAINED WITHIN THE PUBLIC R/W AND WHEN ADJACENT STREET GRADES EXCEED 5%, THEN SIDEWALK RUNNING SLOPES MAY MATCH STREET GRADES.
- 1/8" MAXIMUM DEPTH TO TOP OF SEALANT AND 1/8" MAXIMUM PROTRUSION TO TOP OF SEALANT ALONG ADA ACCESS ROUTES. (RE: PAVING DETAIL PD042(X)(XXX))
- PRIVATE PROPERTY RAMPS SHALL HAVE THE FACE OF THE CURB TRANSITIONS PAINTED YELLOW (RE: DETAIL AD015(X)(XXX))

**PARKING REQUIREMENTS**

PARKING REQUIRED: 60  
 ACCESSIBLE PARKING REQUIRED: 3  
 ACCESSIBLE PARKING PROVIDED: 3

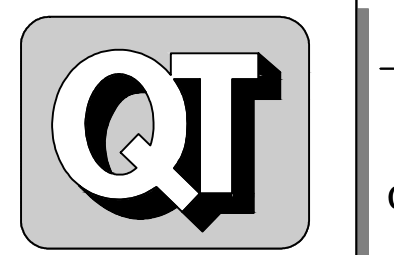


PROJECT NO.: 13.W008

**Schwab Eaton**

8615 W. Frazier, Suite 2  
 Wichita, Kansas  
 P. 316.722.4472  
 F. 316.722.4479

**QuikTrip No. 0313R**  
 K-15 & 31ST STREET SOUTH  
 Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
 Wichita, Sedgwick County, Kansas



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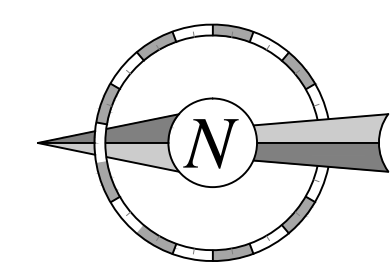
PROTOTYPE:	P-76 (8/01/13)
DIVISION:	WICHITA
VERSION:	001
DESIGNED BY:	AS
DRAWN BY:	AL
REVIEWED BY:	MB

REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT.1, SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

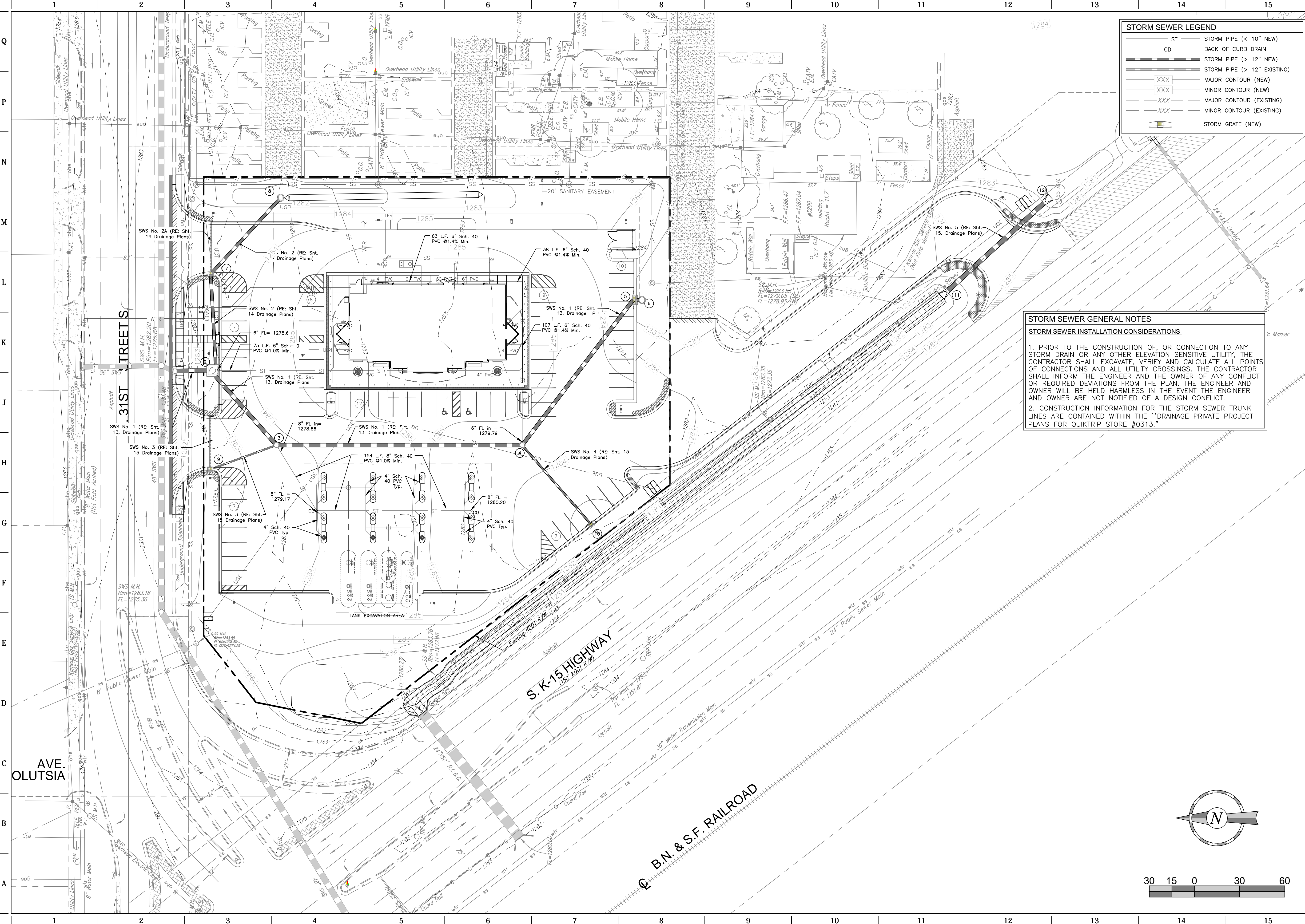
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
 ADA COMPLIANCE  
 REFERENCE PLAN

SHEET NUMBER:  
**C114**



FILE LOCATION: \\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg\03-0313 Civil.dwg TAB NAME: Storm USER: alopez SAVED: 3/11/2014 2:40 PM PLOTTED: 3/11/2014 3:34 PM

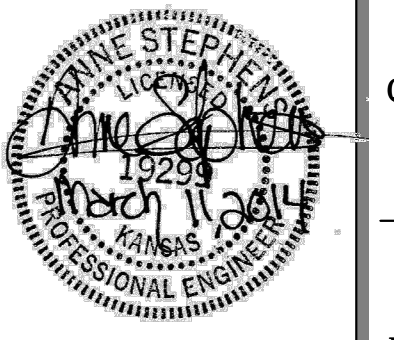


**STORM SEWER LEGEND**

ST	STORM PIPE (< 10" NEW)
CD	BACK OF CURB DRAIN
---	STORM PIPE (> 12" NEW)
---	STORM PIPE (> 12" EXISTING)
XXX	MAJOR CONTOUR (NEW)
XXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
SG	STORM GRATE (NEW)

**STORM SEWER GENERAL NOTES**  
**STORM SEWER INSTALLATION CONSIDERATIONS**

- PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN OR ANY OTHER ELEVATION SENSITIVE UTILITY, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. THE ENGINEER AND OWNER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER AND OWNER ARE NOT NOTIFIED OF A DESIGN CONFLICT.
- CONSTRUCTION INFORMATION FOR THE STORM SEWER TRUNK LINES ARE CONTAINED WITHIN THE "DRAINAGE PRIVATE PROJECT PLANS FOR QUIKTRIP STORE #0313."

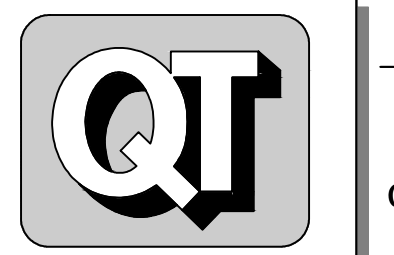


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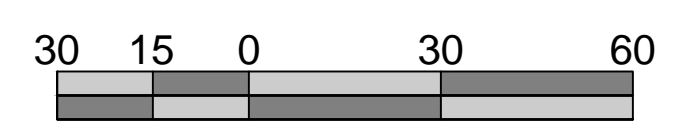
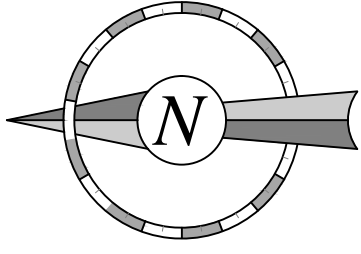
PROTOTYPE:	P-76 (8/01/13)
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DESIGNED BY:	AS
DRAWN BY:	AL
REVIEWED BY:	MB

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6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

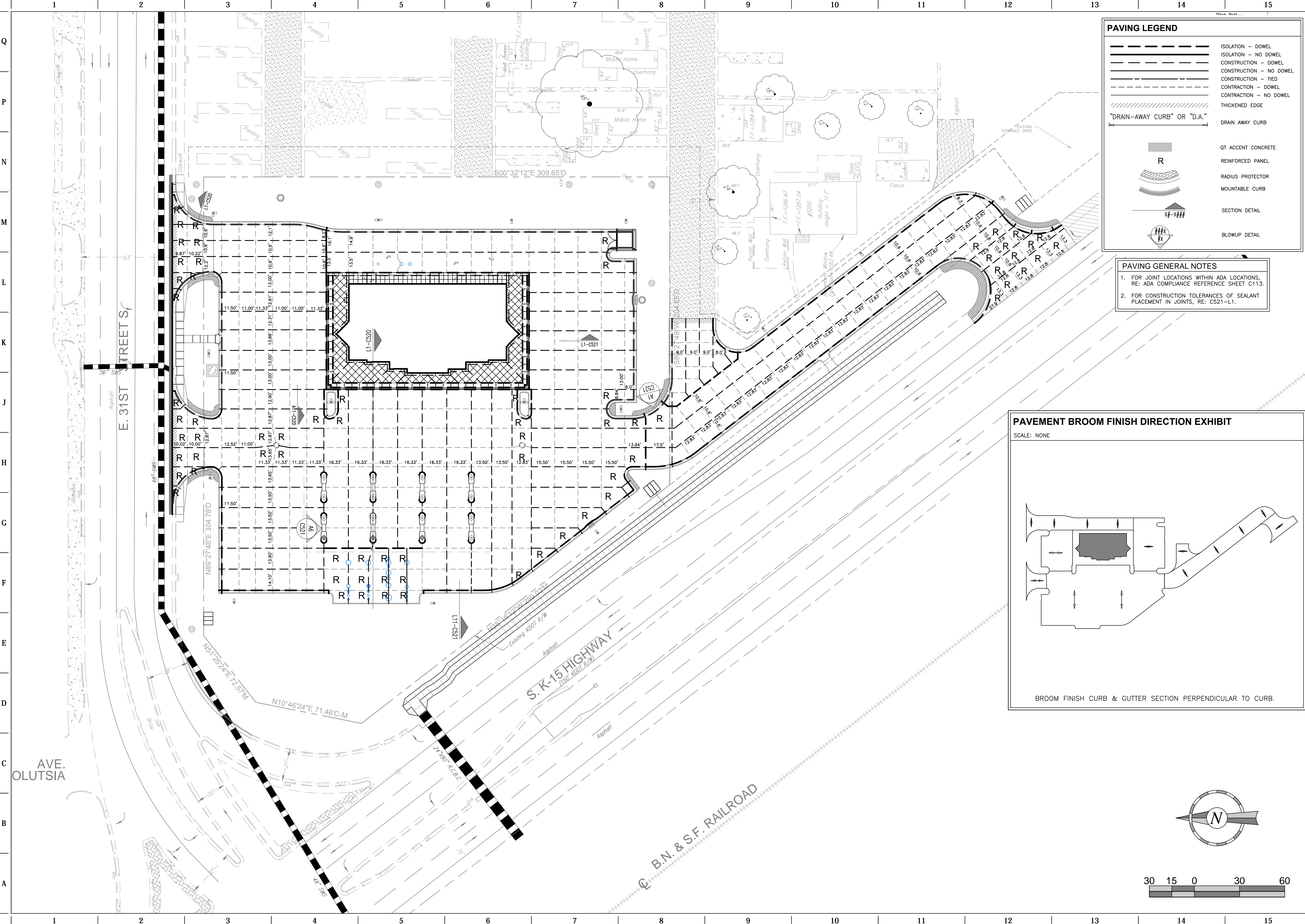
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
**STORM SEWER PLAN**

SHEET NUMBER:  
**C120**



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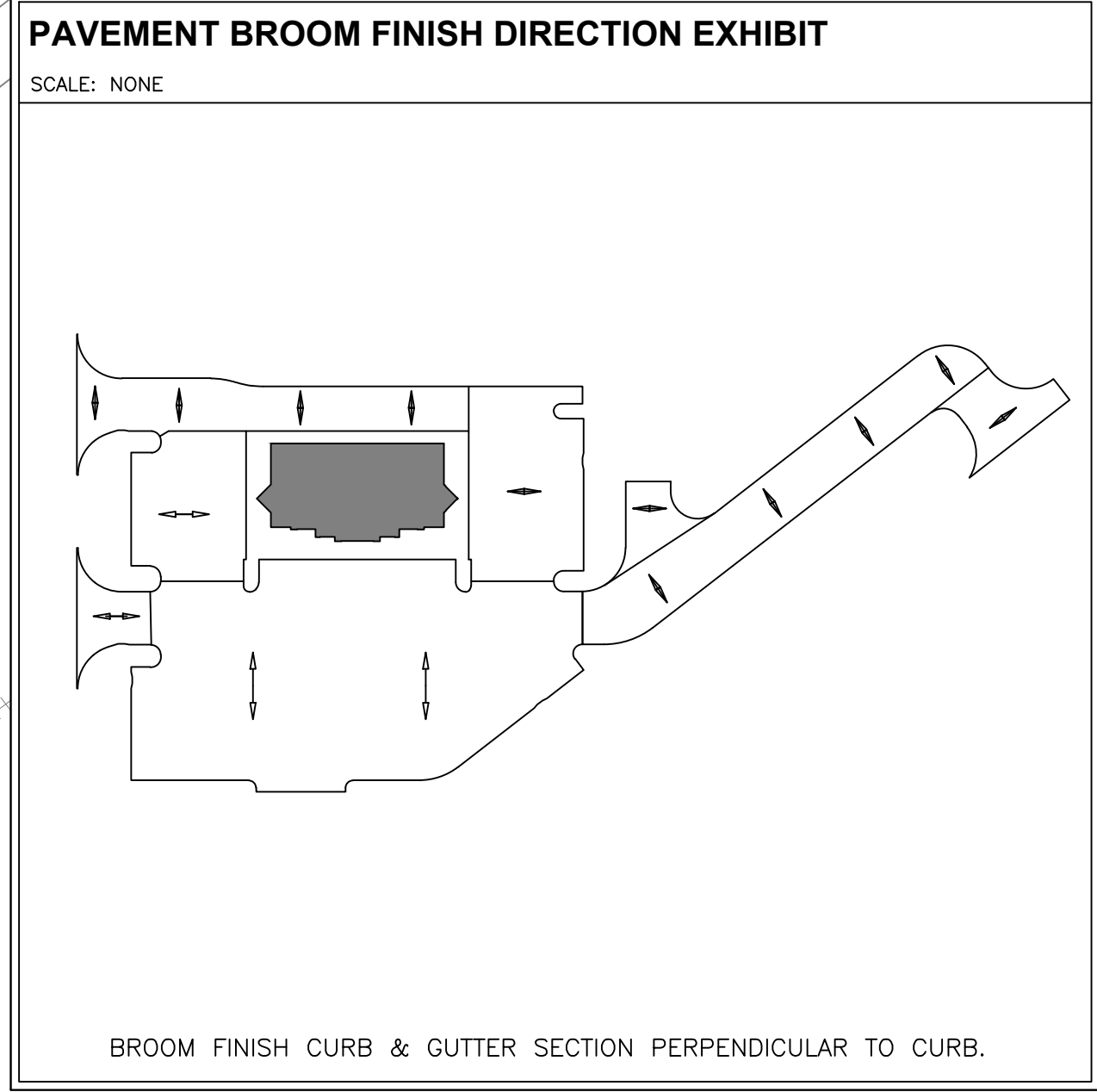


### PAVING LEGEND

- ISOLATION - DOWEL
- ISOLATION - NO DOWEL
- CONSTRUCTION - DOWEL
- CONSTRUCTION - NO DOWEL
- CONSTRUCTION - TIED
- CONSTRUCTION - DOWEL
- CONSTRUCTION - NO DOWEL
- THICKENED EDGE
- "DRAIN-AWAY CURB" OR "D.A."
- DRAIN AWAY CURB
- QT ACCENT CONCRETE
- REINFORCED PANEL
- RADIUS PROTECTOR
- MOUNTABLE CURB
- SECTION DETAIL
- BLOWUP DETAIL

### PAVING GENERAL NOTES

- FOR JOINT LOCATIONS WITHIN ADA LOCATIONS, RE: ADA COMPLIANCE REFERENCE SHEET C113.
- FOR CONSTRUCTION TOLERANCES OF SEALANT PLACEMENT IN JOINTS, RE: C521-1.

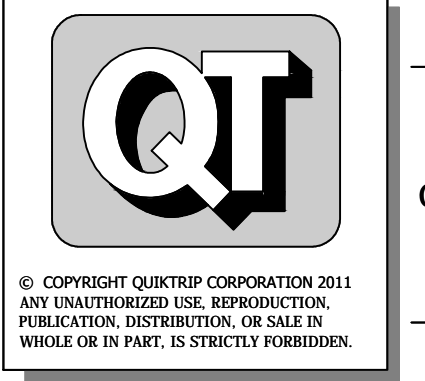


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K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
Wichita, Sedgwick County, Kansas



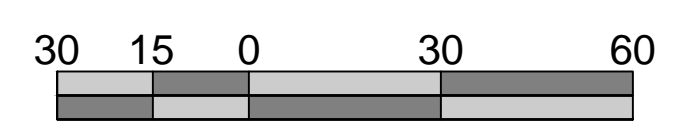
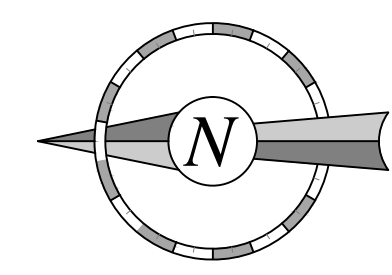
PROTOTYPE:	P-76 (8/01/13)
DIVISION:	WICHITA
VERSION:	001
DESIGNED BY:	AS
DRAWN BY:	AL
REVIEWED BY:	MB

REV	DATE	DESCRIPTION
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7	03/11/14	PPP # ON TITLE SHEET

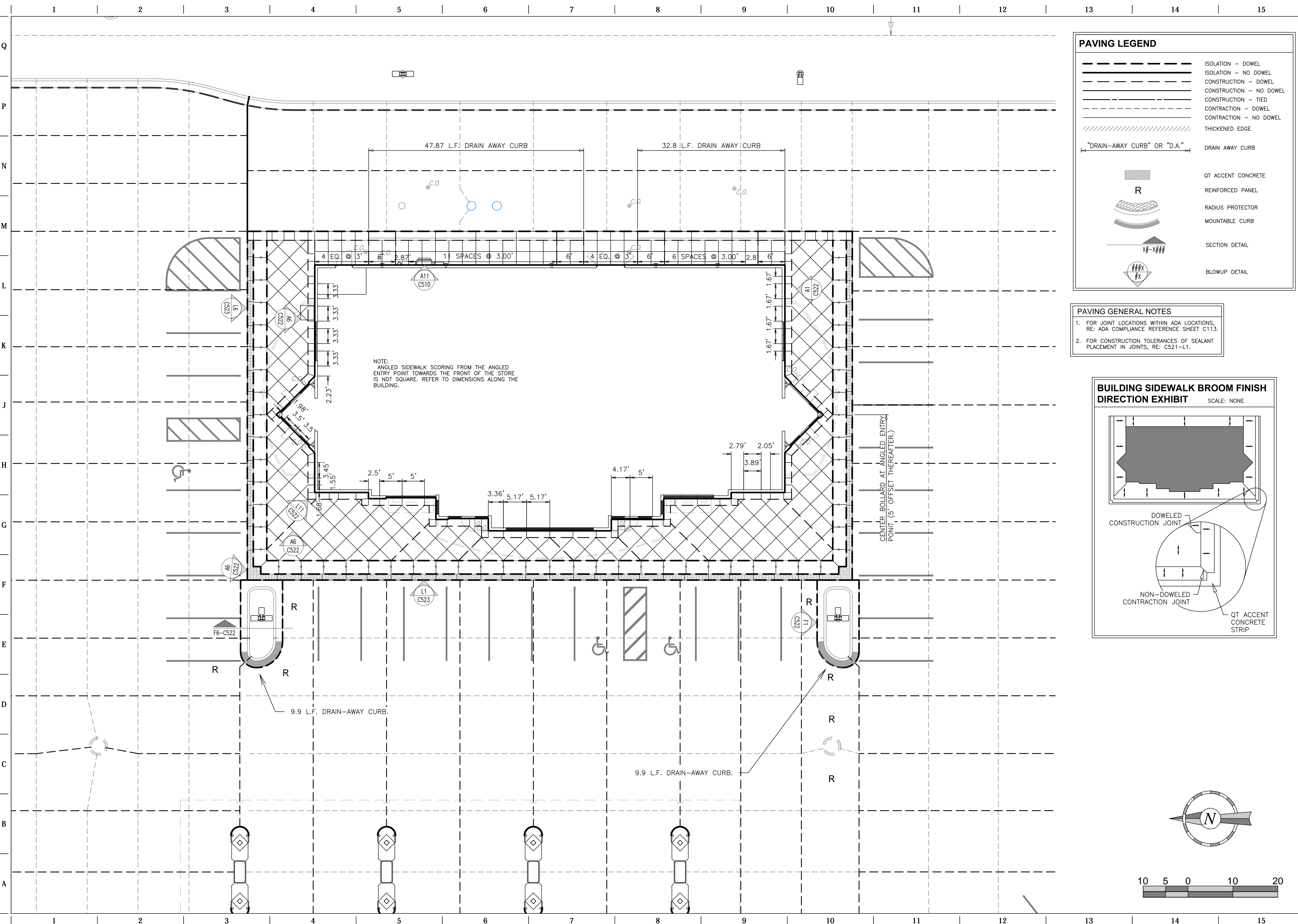
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
PAVING PLAN

SHEET NUMBER:  
**C130**



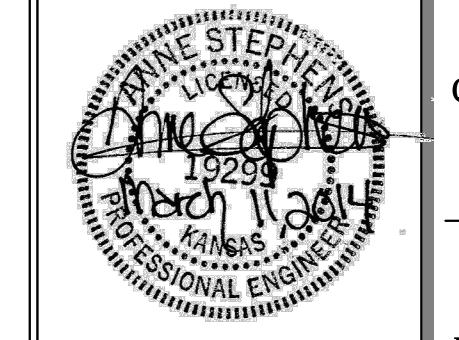
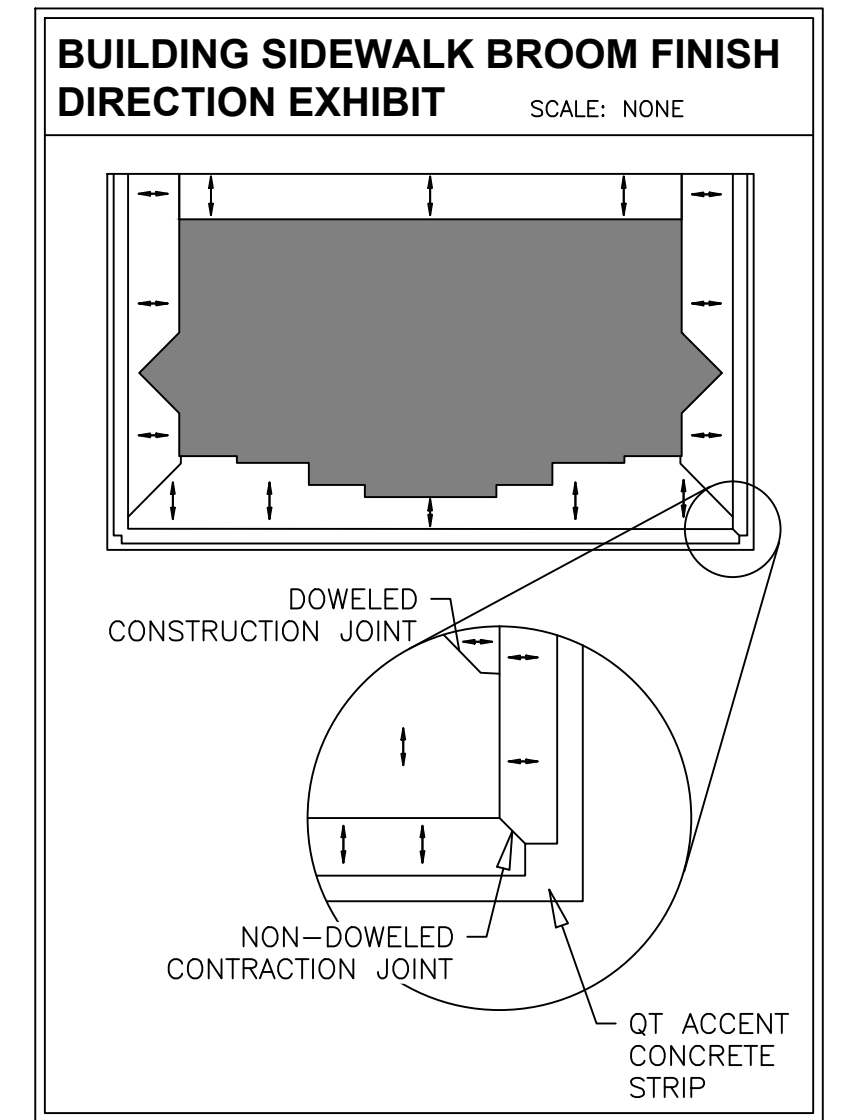
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### PAVING LEGEND

	ISOLATION - DOWEL
	ISOLATION - NO DOWEL
	CONSTRUCTION - DOWEL
	CONSTRUCTION - NO DOWEL
	CONSTRUCTION - TIED
	CONTRACTION - DOWEL
	CONTRACTION - NO DOWEL
	THICKENED EDGE
	"DRAIN-AWAY CURB" OR "D.A."
	QT ACCENT CONCRETE
	R
	RADIUS PROTECTOR
	MOUNTABLE CURB
	X#-X##
	#X

- ### PAVING GENERAL NOTES
- FOR JOINT LOCATIONS WITHIN ADA LOCATIONS, RE: ADA COMPLIANCE REFERENCE SHEET C113.
  - FOR CONSTRUCTION TOLERANCES OF SEALANT PLACEMENT IN JOINTS, RE: C521-1.

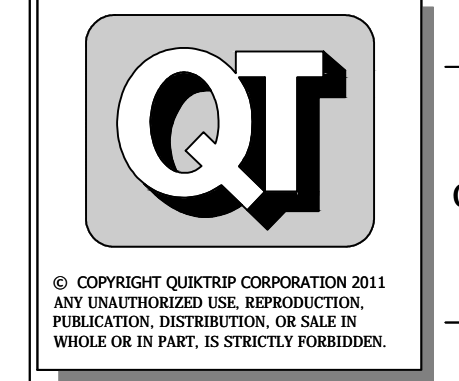


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DRAWN BY:	AL
REVIEWED BY:	MB

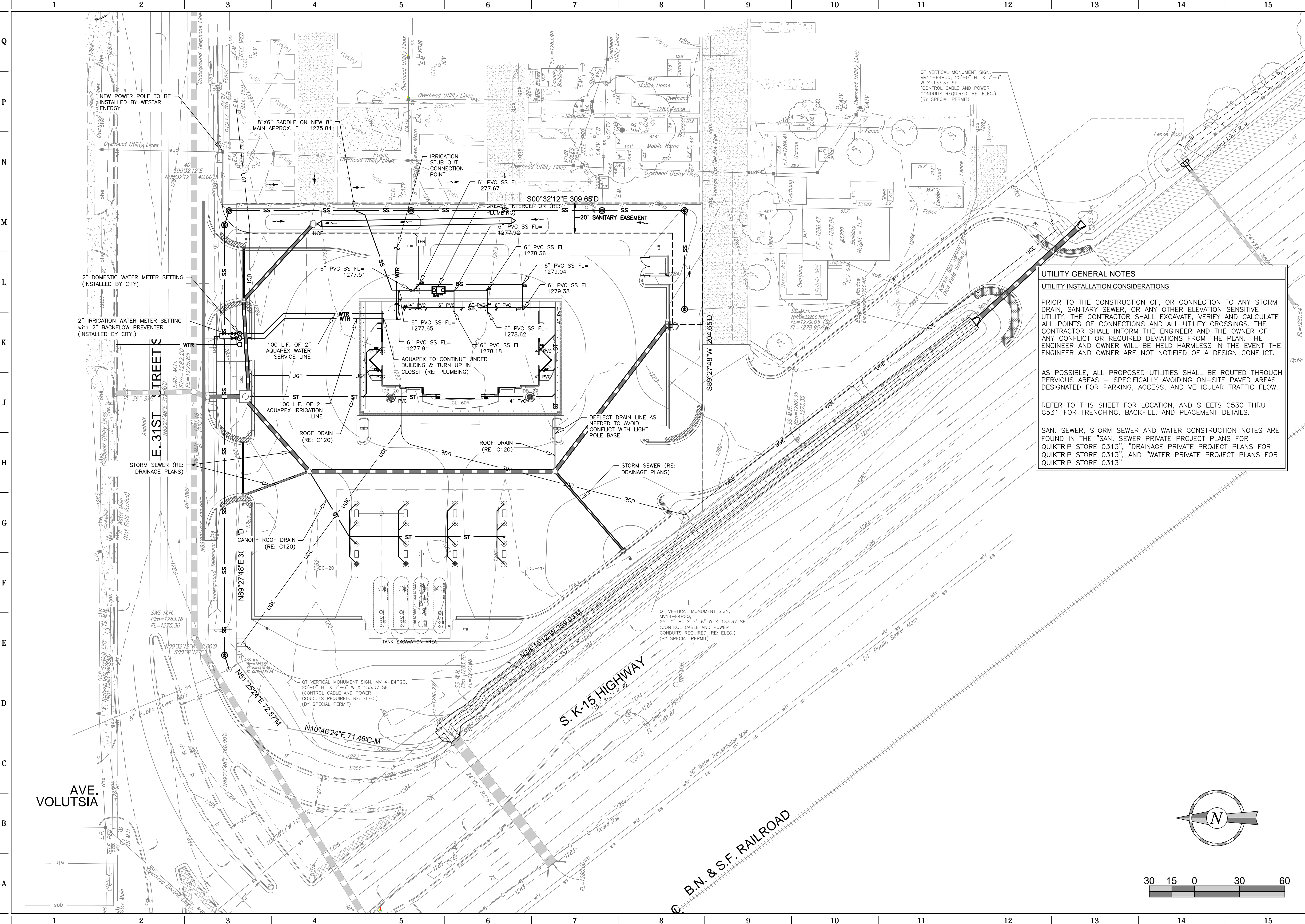
REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
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6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
BUILDING PAVING PLAN

SHEET NUMBER:  
**C131**

FILE LOCATION: \\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\03-0313 Civil.dwg TAB NAME: Utility USER: alopez SAVER: 3/11/2014 2:40 PM PLOTTED: 3/11/2014 3:36 PM



**UTILITY GENERAL NOTES**

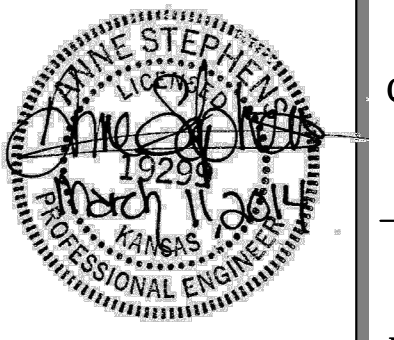
**UTILITY INSTALLATION CONSIDERATIONS**

PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, OR ANY OTHER ELEVATION SENSITIVE UTILITY, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. THE ENGINEER AND OWNER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER AND OWNER ARE NOT NOTIFIED OF A DESIGN CONFLICT.

AS POSSIBLE, ALL PROPOSED UTILITIES SHALL BE ROUTED THROUGH PERVIOUS AREAS - SPECIFICALLY AVOIDING ON-SITE PAVED AREAS DESIGNATED FOR PARKING, ACCESS, AND VEHICULAR TRAFFIC FLOW.

REFER TO THIS SHEET FOR LOCATION, AND SHEETS C530 THRU C531 FOR TRENCHING, BACKFILL, AND PLACEMENT DETAILS.

SAN. SEWER, STORM SEWER AND WATER CONSTRUCTION NOTES ARE FOUND IN THE "SAN. SEWER PRIVATE PROJECT PLANS FOR QUIKTRIP STORE 0313", "DRAINAGE PRIVATE PROJECT PLANS FOR QUIKTRIP STORE 0313", AND "WATER PRIVATE PROJECT PLANS FOR QUIKTRIP STORE 0313"

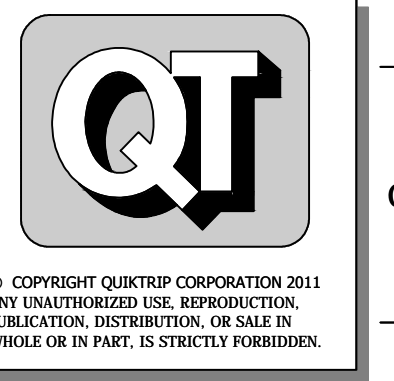


PROJECT NO. 13.W008

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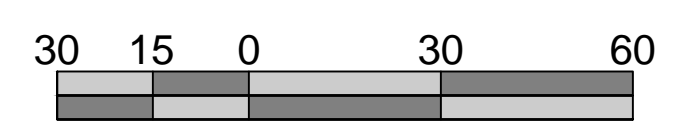
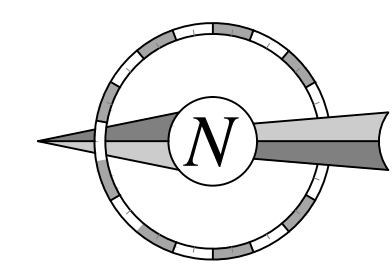
PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
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DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
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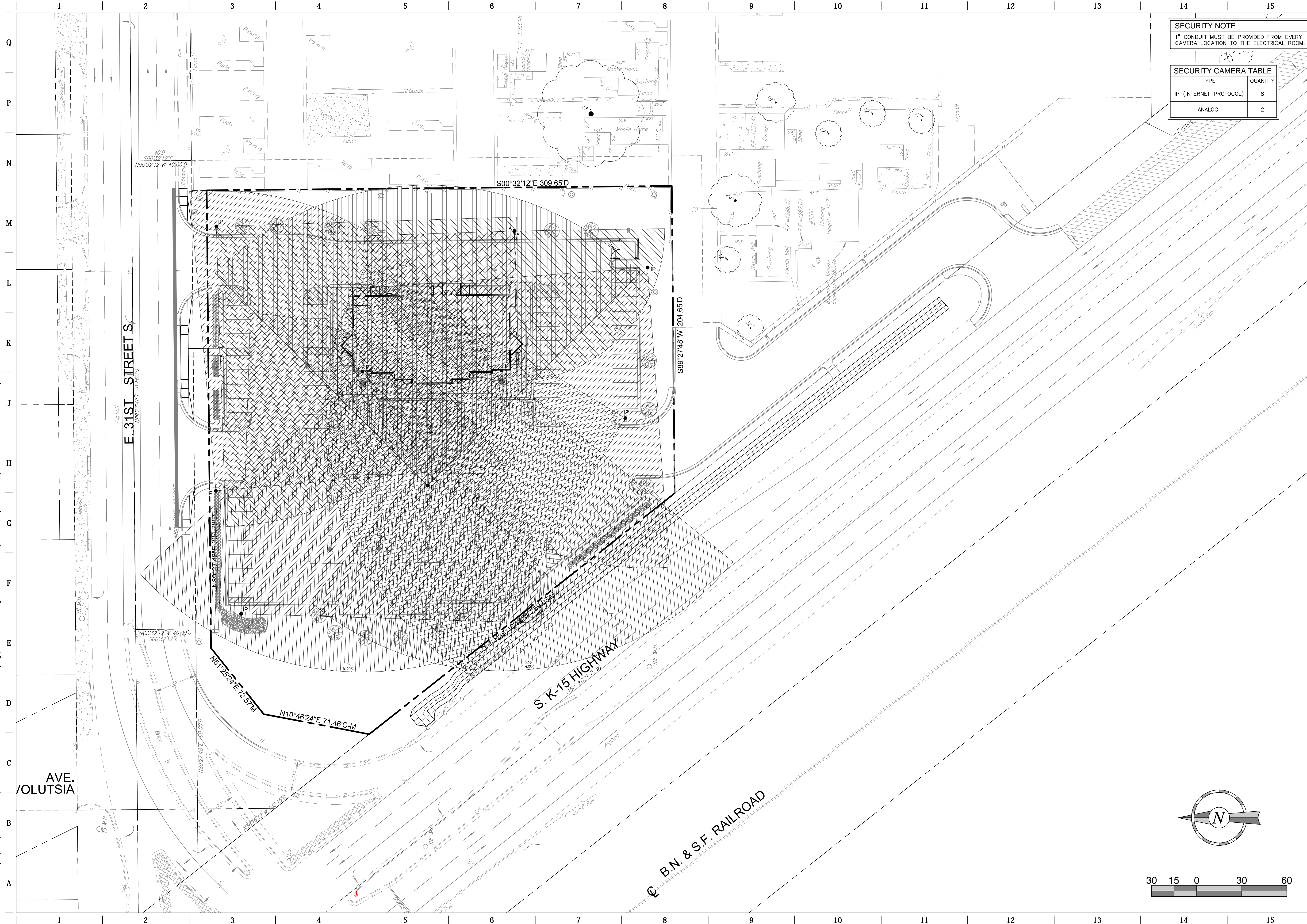
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
UTILITY PLAN

SHEET NUMBER:  
**C150**

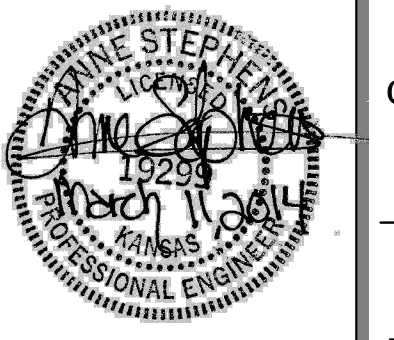


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**SECURITY NOTE**  
1" CONDUIT MUST BE PROVIDED FROM EVERY CAMERA LOCATION TO THE ELECTRICAL ROOM.

SECURITY CAMERA TABLE	
TYPE	QUANTITY
IP (INTERNET PROTOCOL)	8
ANALOG	2

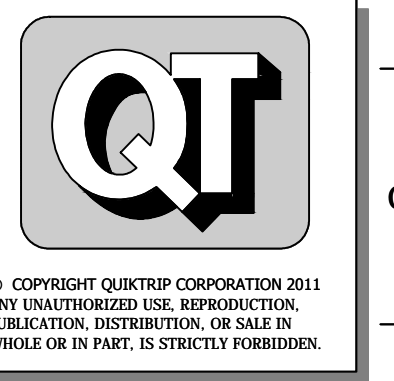


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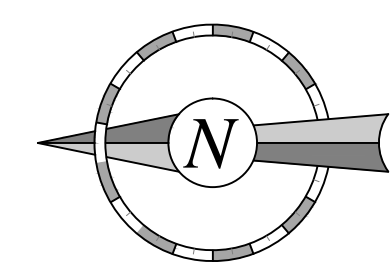
PROTOTYPE:	P-76 (8/01/13)
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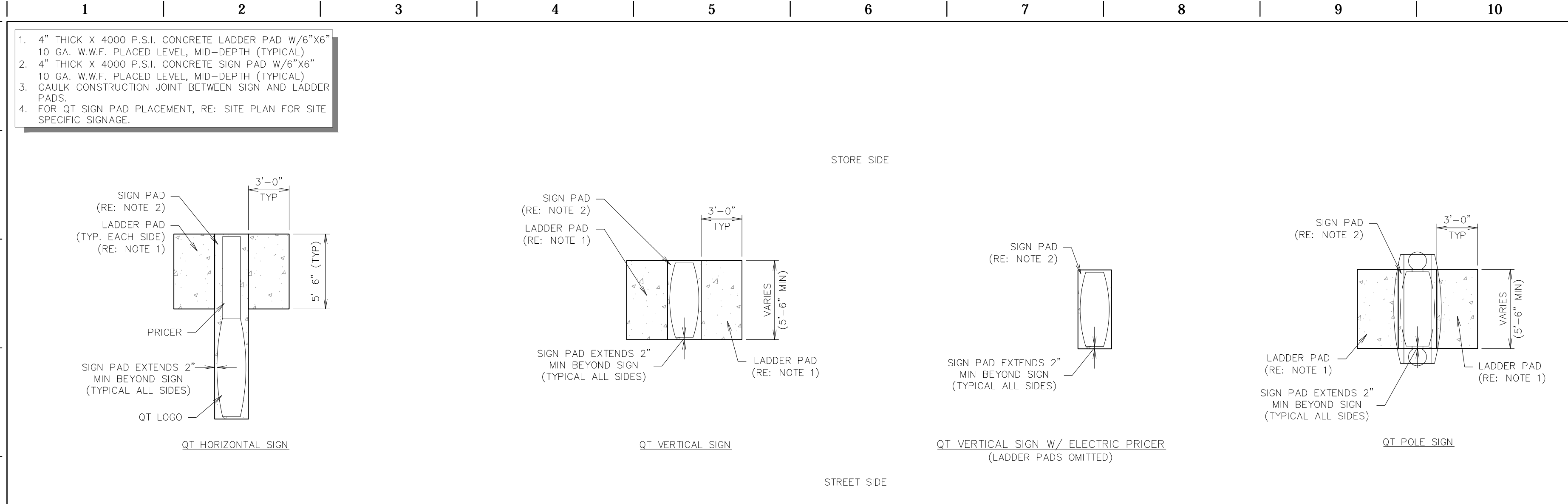
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
SECURITY PLAN

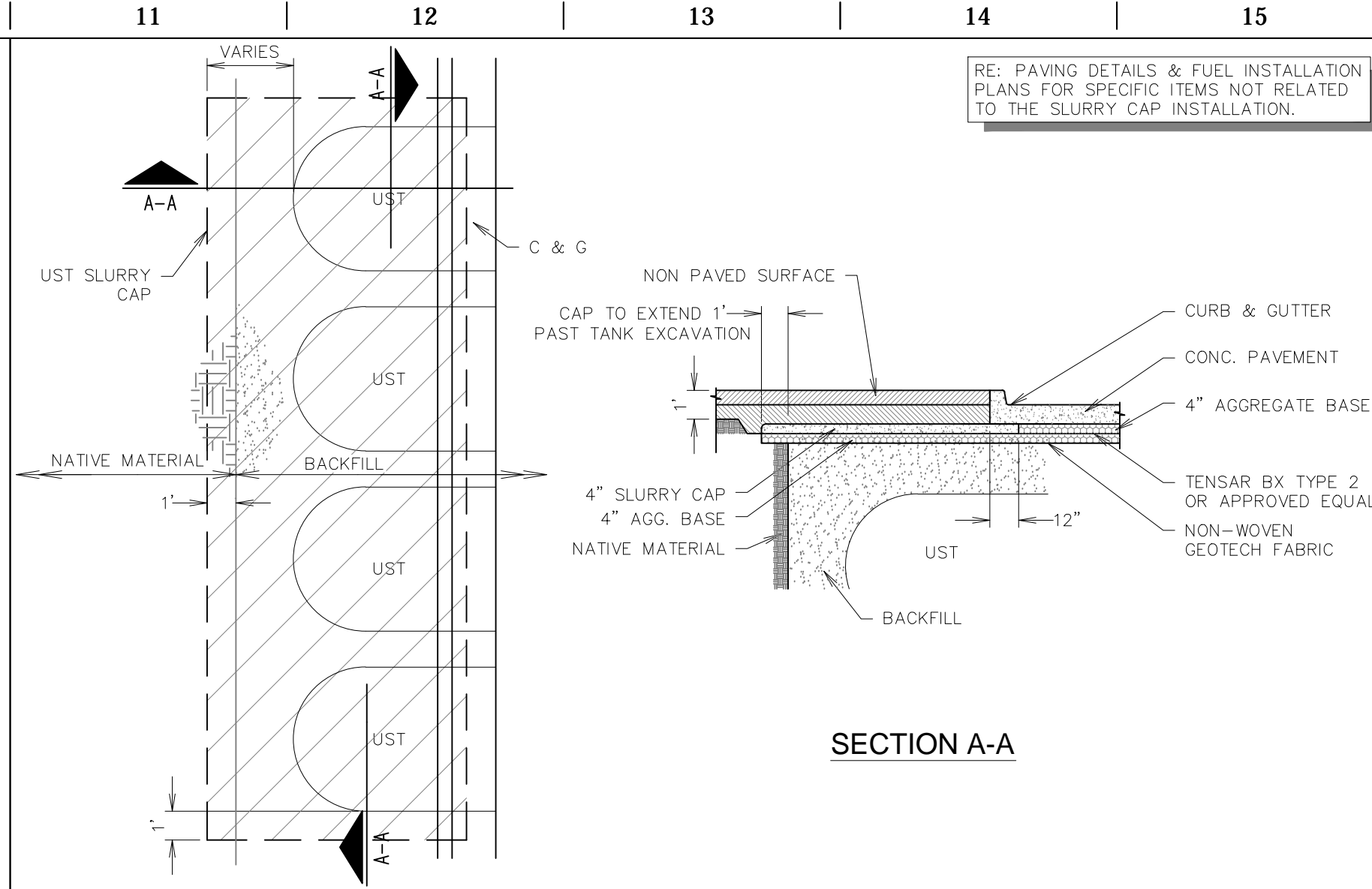
SHEET NUMBER:  
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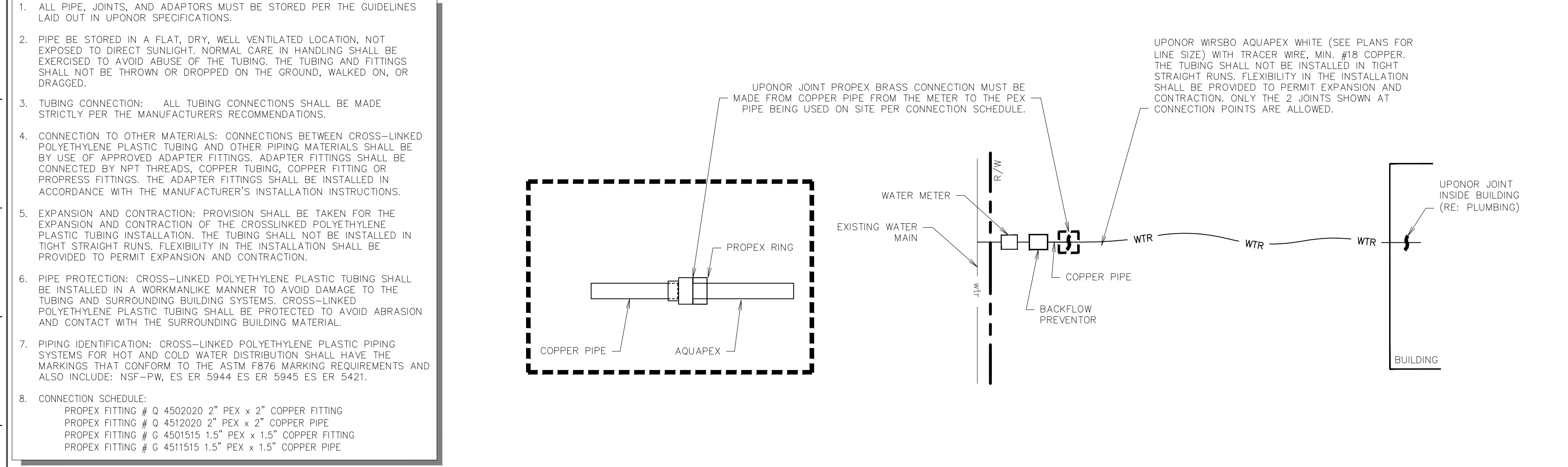
FILE LOCATION: W:\Projects\3.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg & Pdf Submittals\DETAILS SHEETS\DETAILS SHEETS\Misc. Site C500.dwg TAE NAME: SITE DETAIL SHEET 1 USER: ALopez SAVED: 11/26/2013 4:08 PM PLOTTED: 3/12/2014 8:15 AM



**L1** GEN III SIGN PAD DETAIL  
 NTS SN: SD015A003

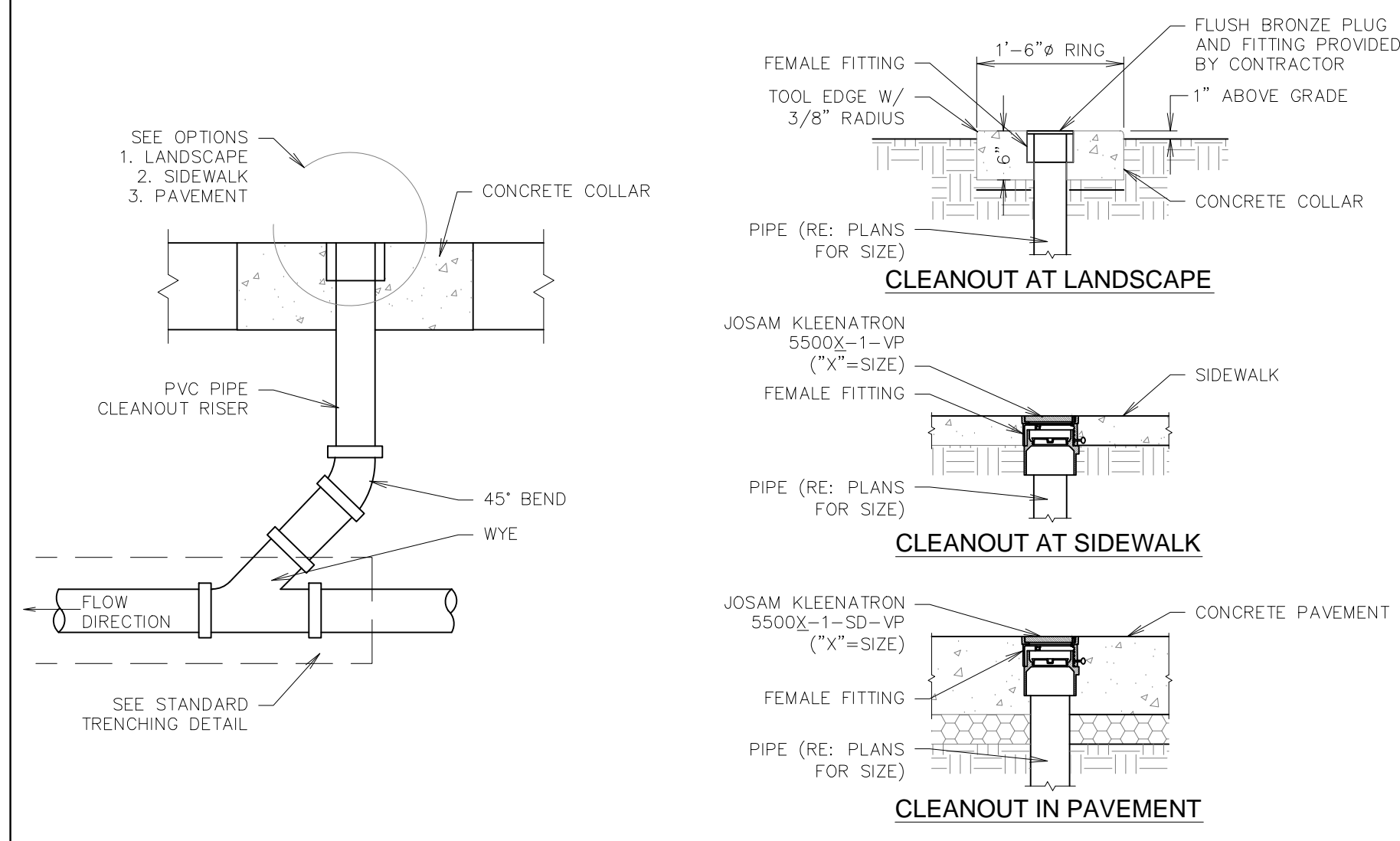


**L11** UNDERGROUND STORAGE TANK (UST) SLURRY CAP DETAIL  
 NTS SN: SD020A003

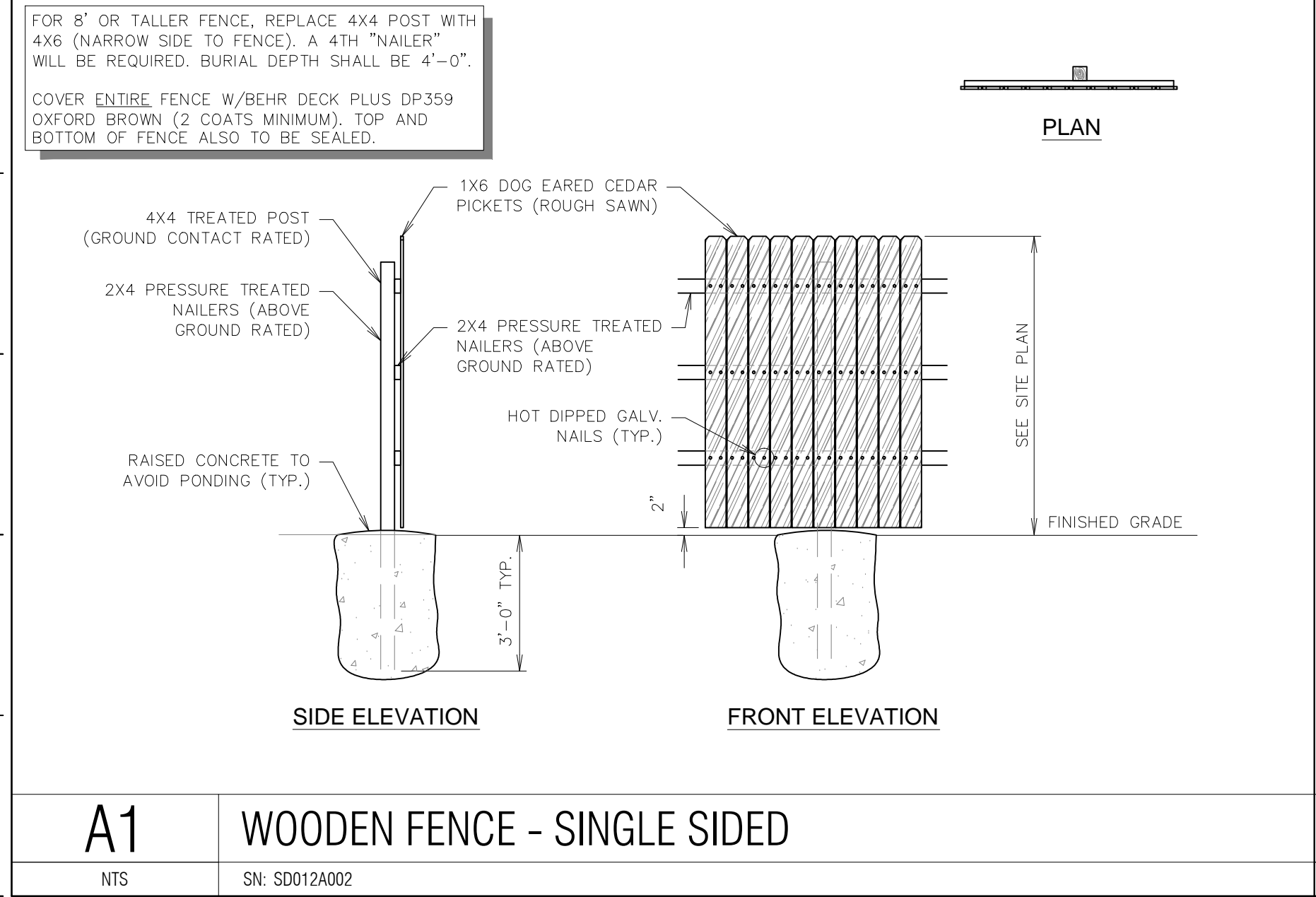


**F1** PEX DETAIL - WATER METER & BFP @ STREET  
 NTS SN: SD023A001

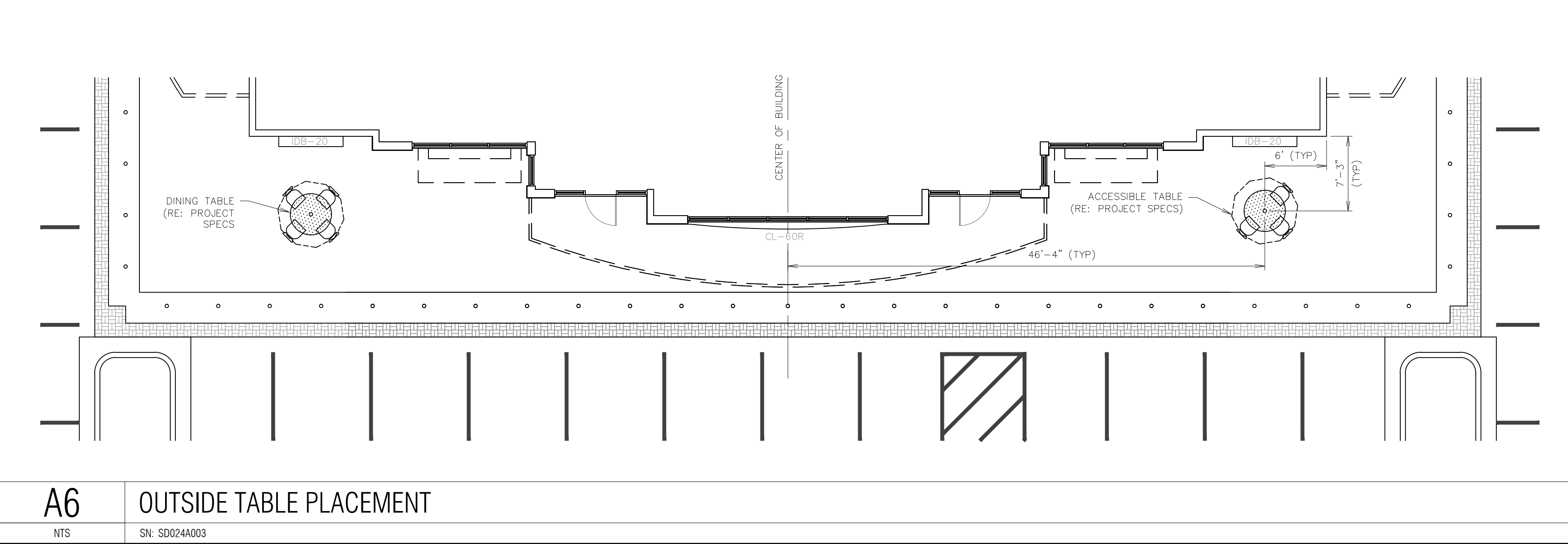
**F6**



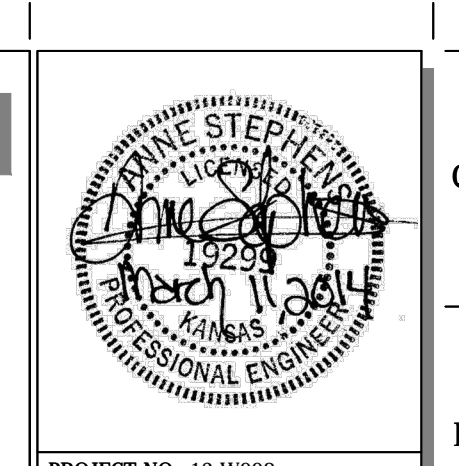
**F11** CLEANOUT SECTION DETAIL  
 NTS SN: SD016A006



**A1** WOODEN FENCE - SINGLE SIDED  
 NTS SN: SD012A002



**A6** OUTSIDE TABLE PLACEMENT  
 NTS SN: SD024A003

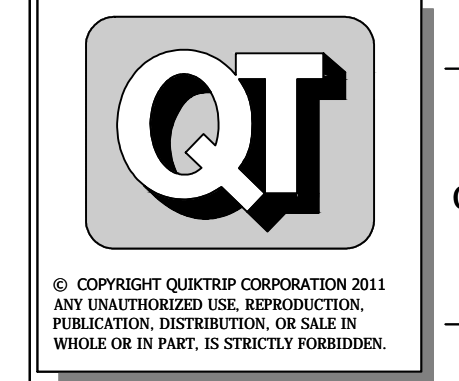


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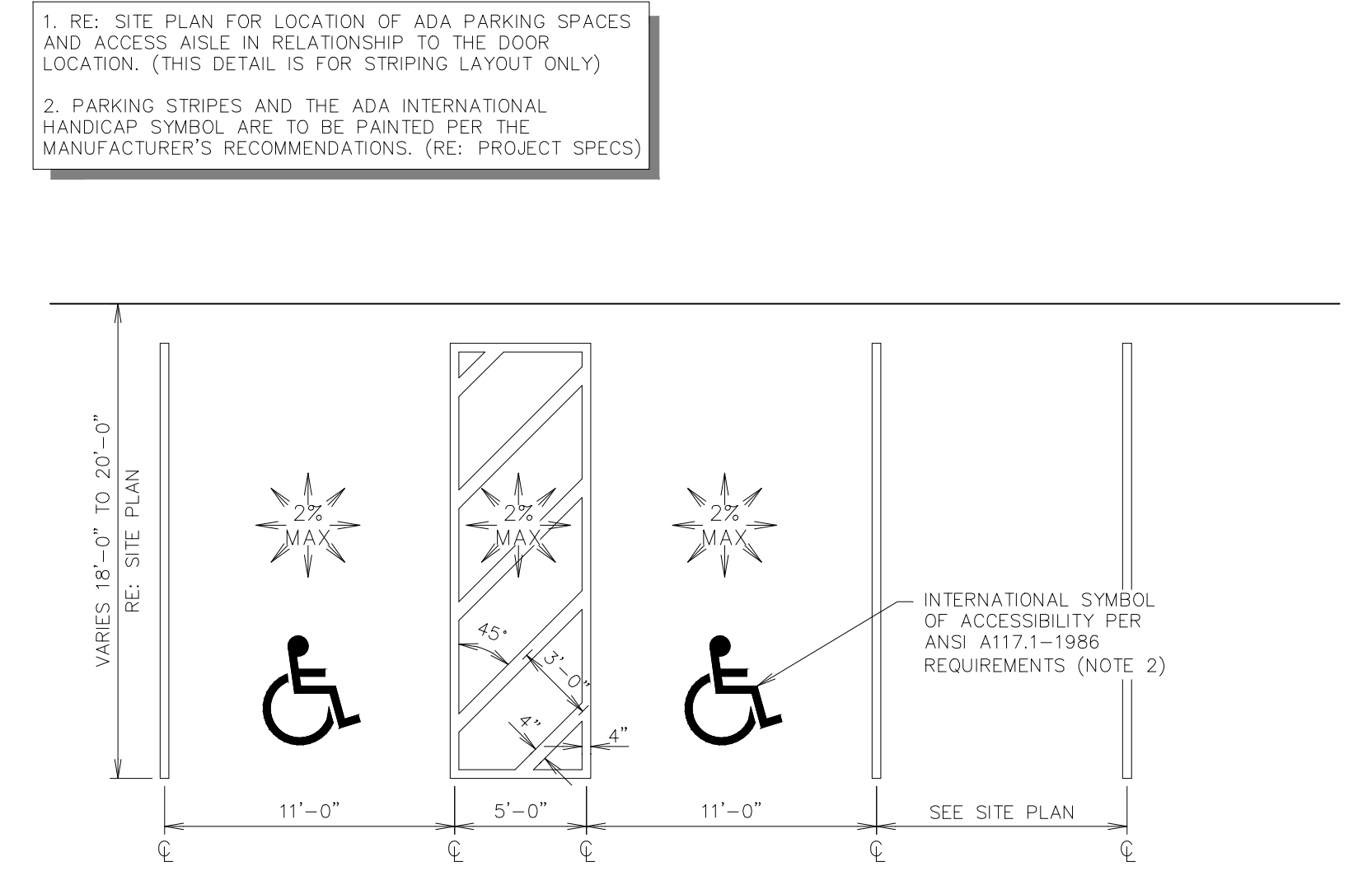
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
 MISC. SITE DETAIL SHEET 1

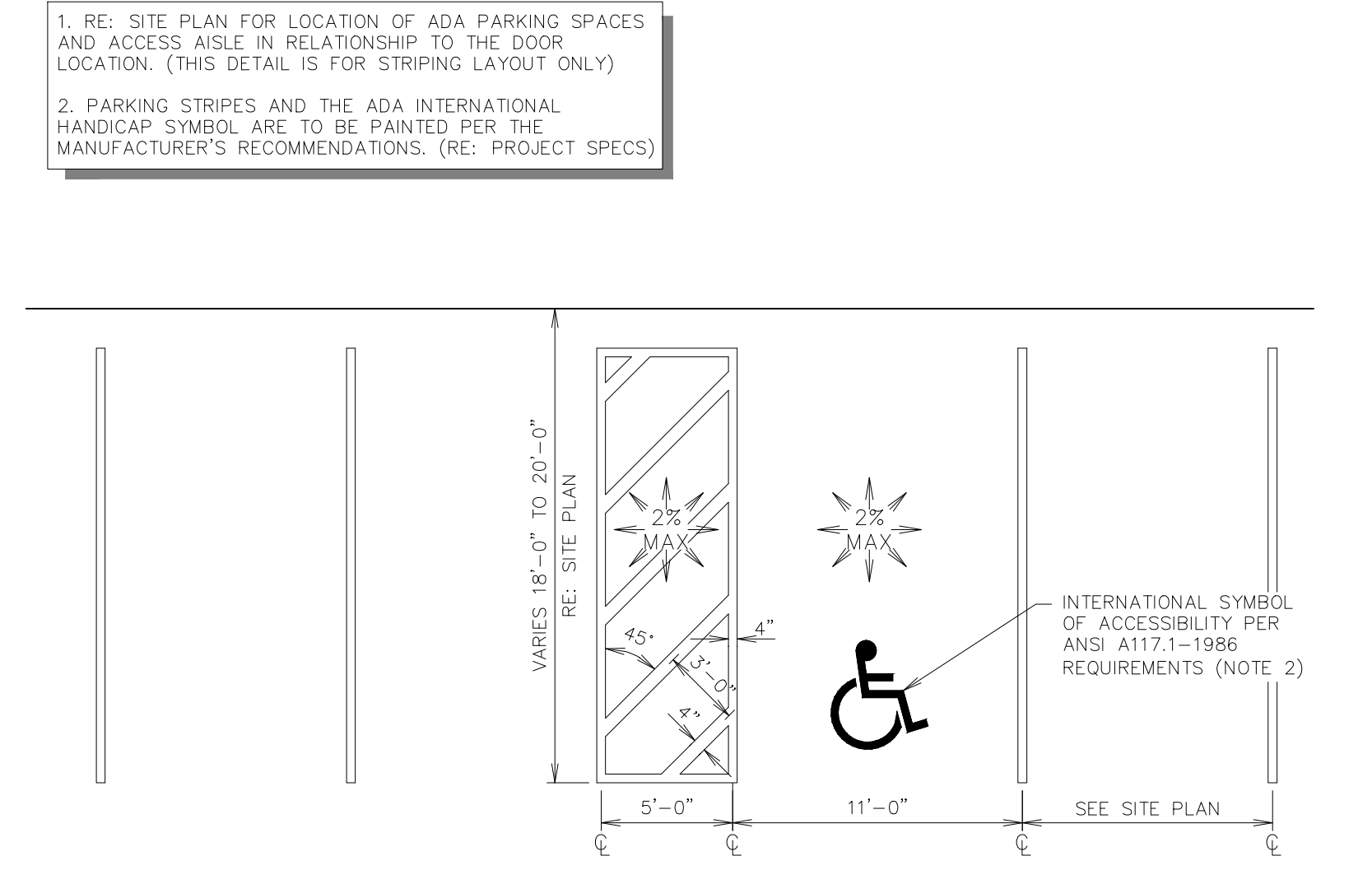
SHEET NUMBER:  
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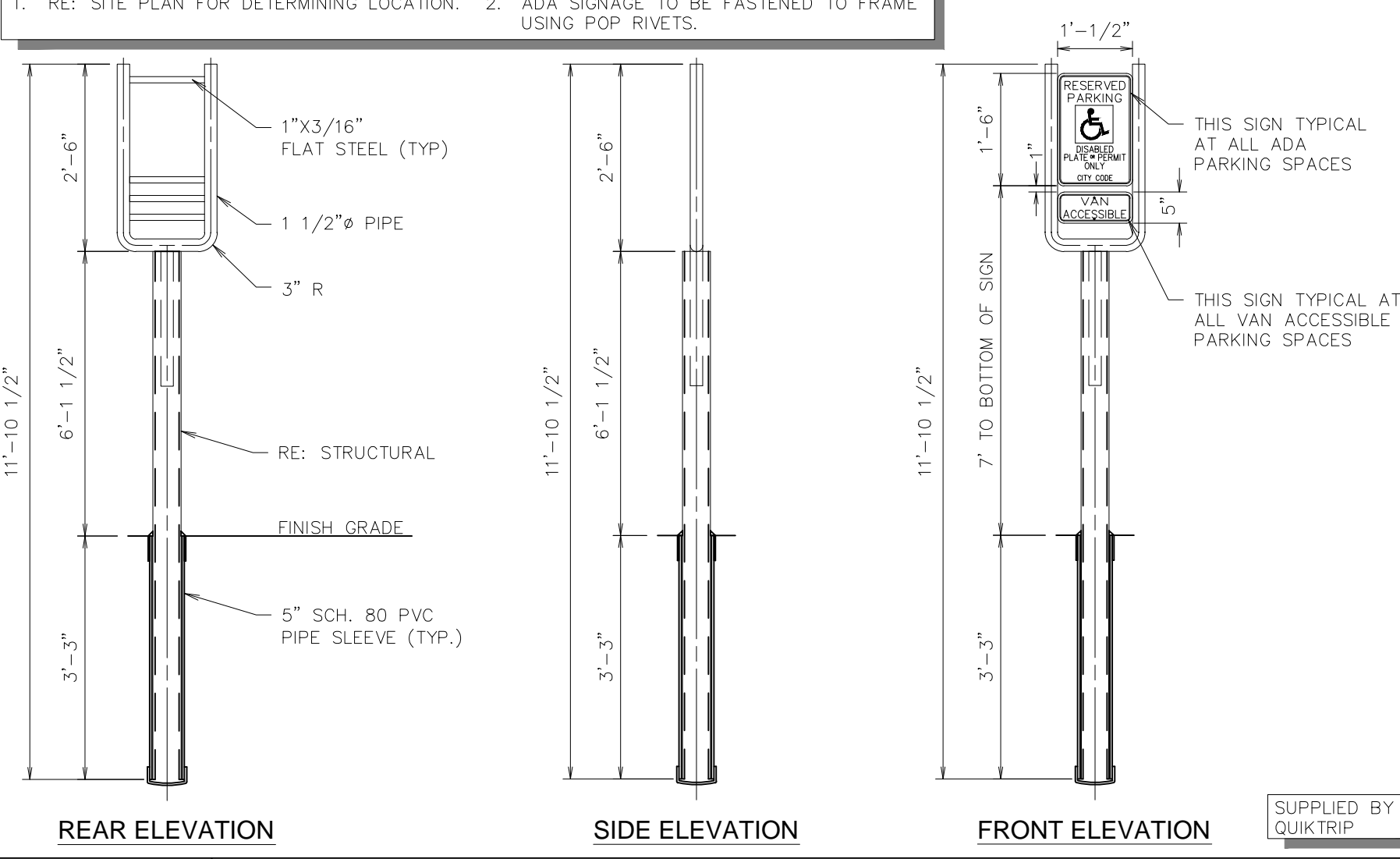
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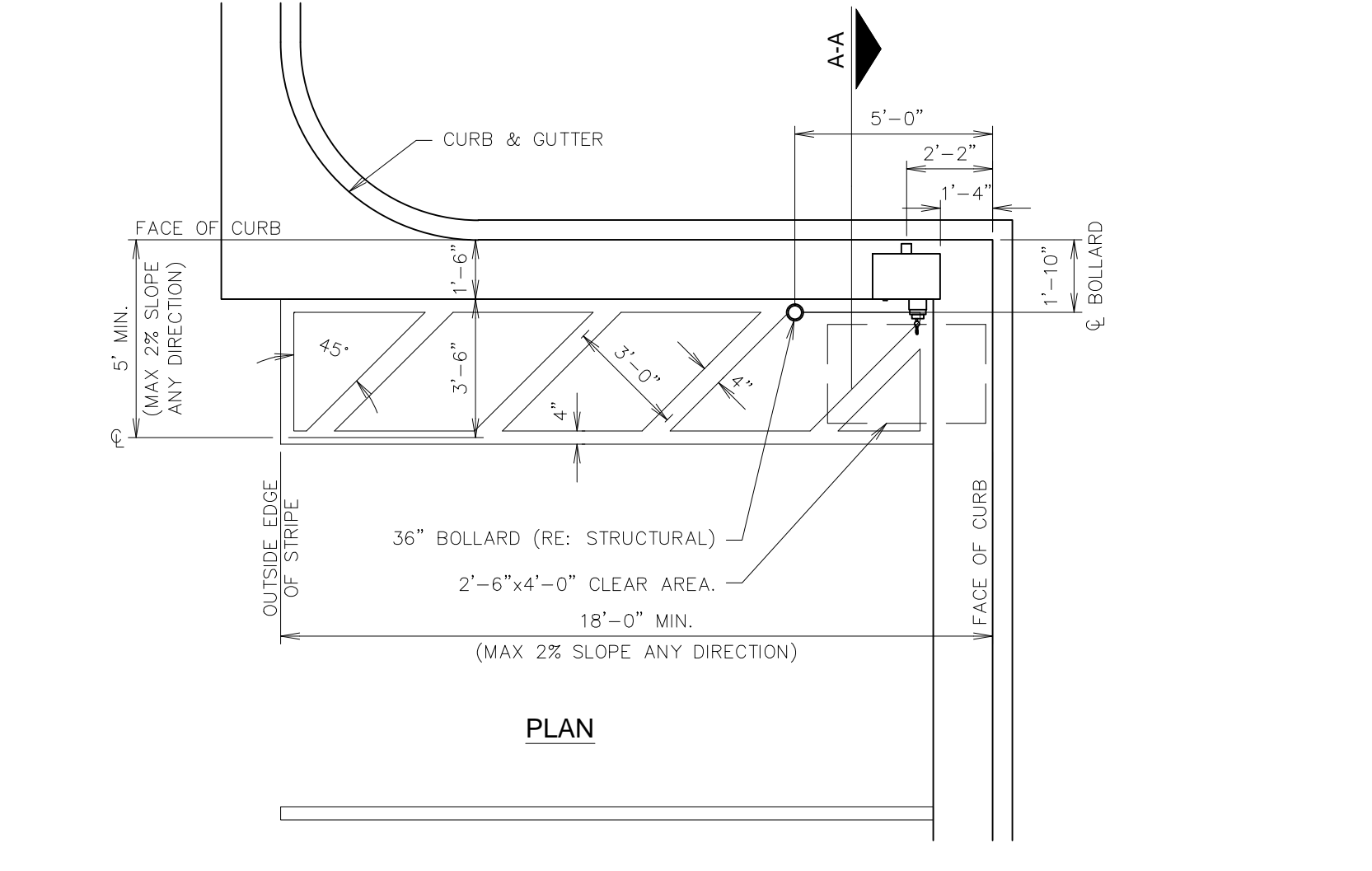
**L1** DOUBLE STALL ADA PARKING STRIPING DETAIL (UNIVERSAL LAYOUT)  
NTS SN: AD0018007



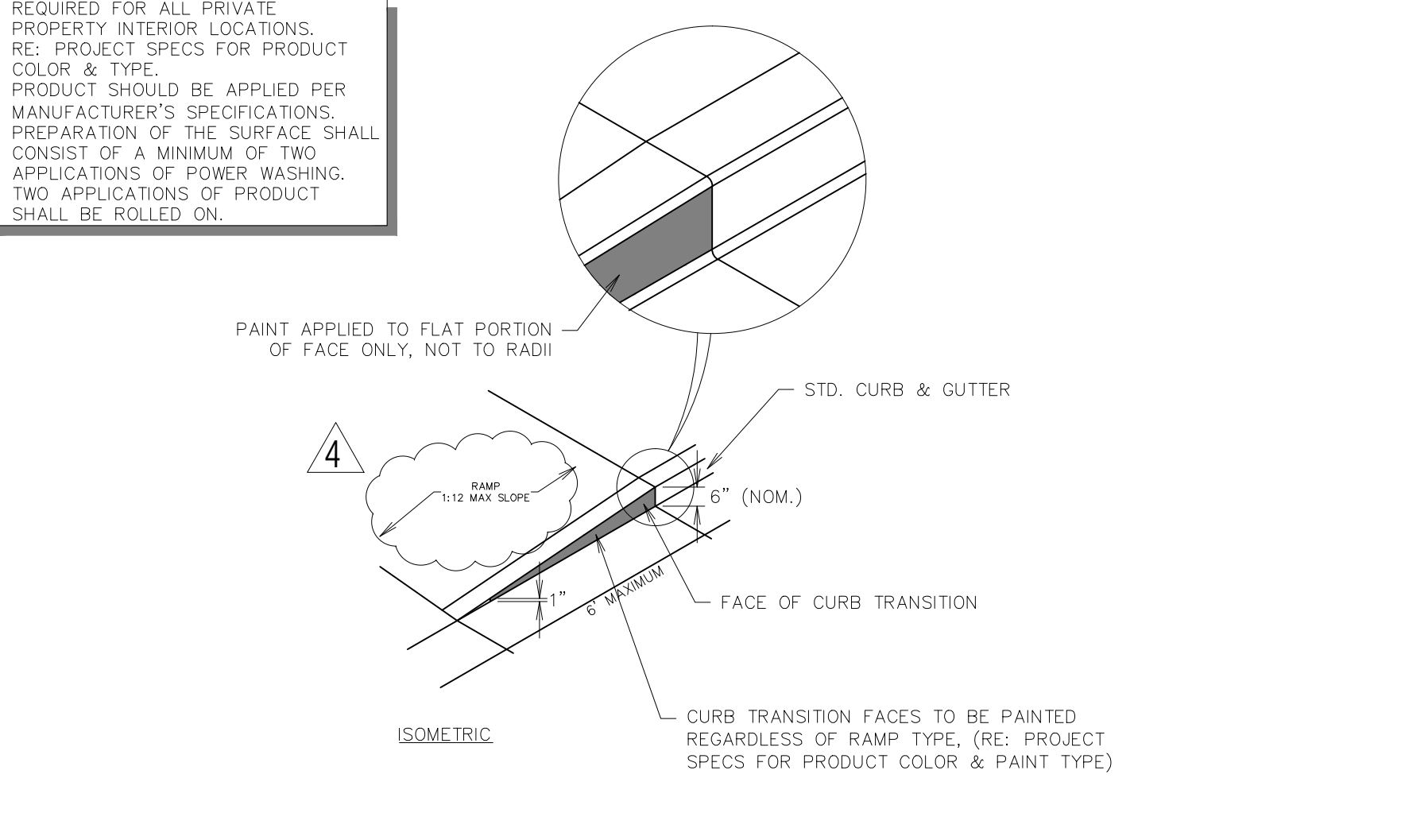
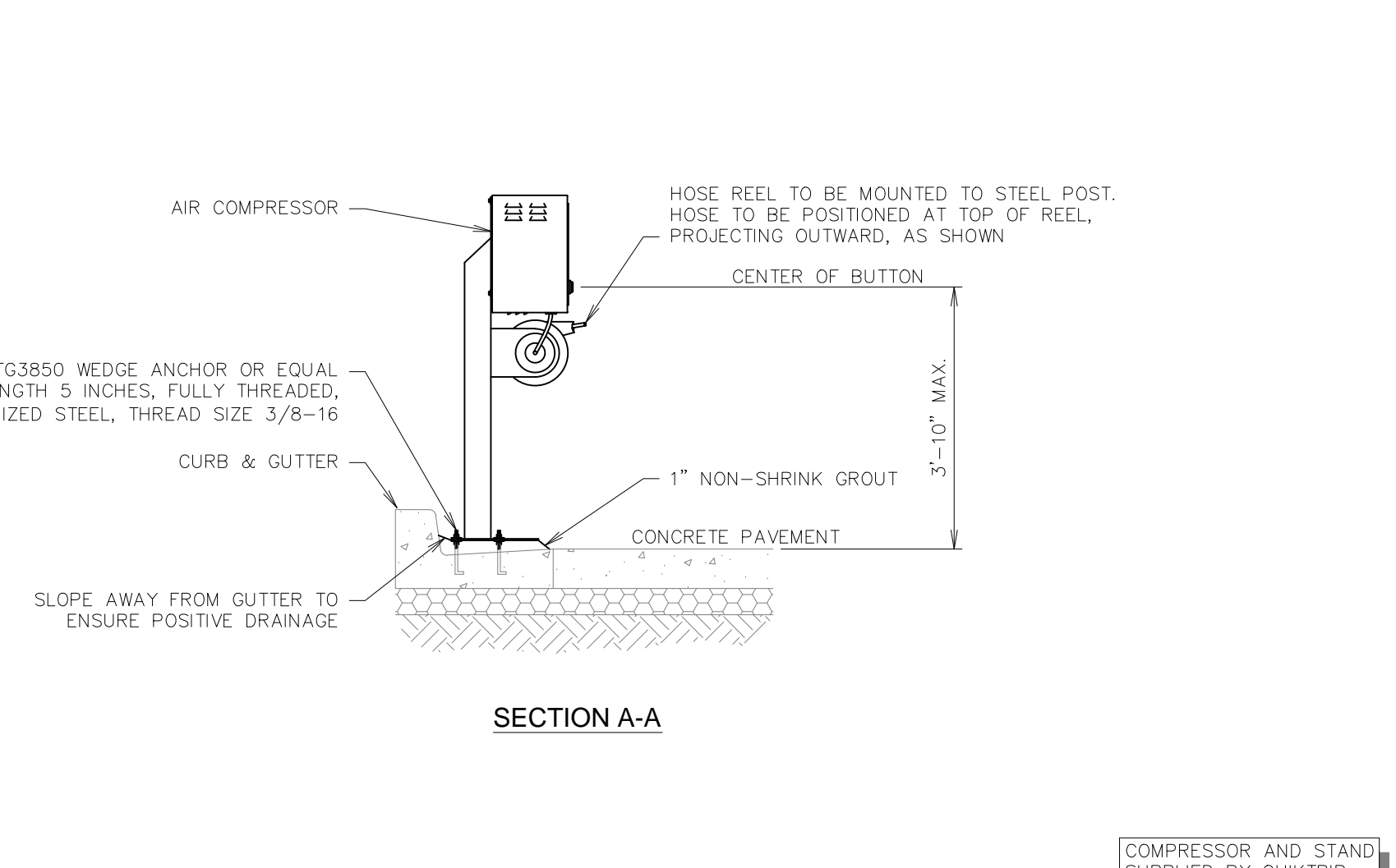
**L6** SINGLE STALL ADA PARKING STRIPING DETAIL (UNIVERSAL LAYOUT)  
NTS SN: AD0028007



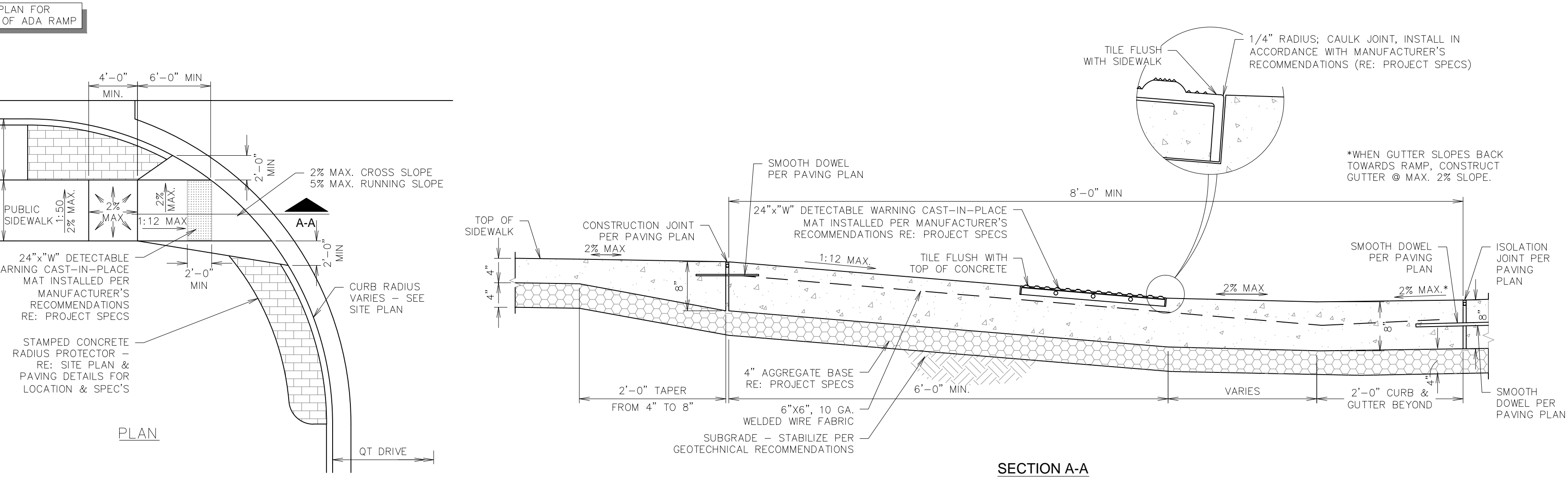
**L11** ADA SIGN IN BOLLARD  
NTS SN: AD003C006



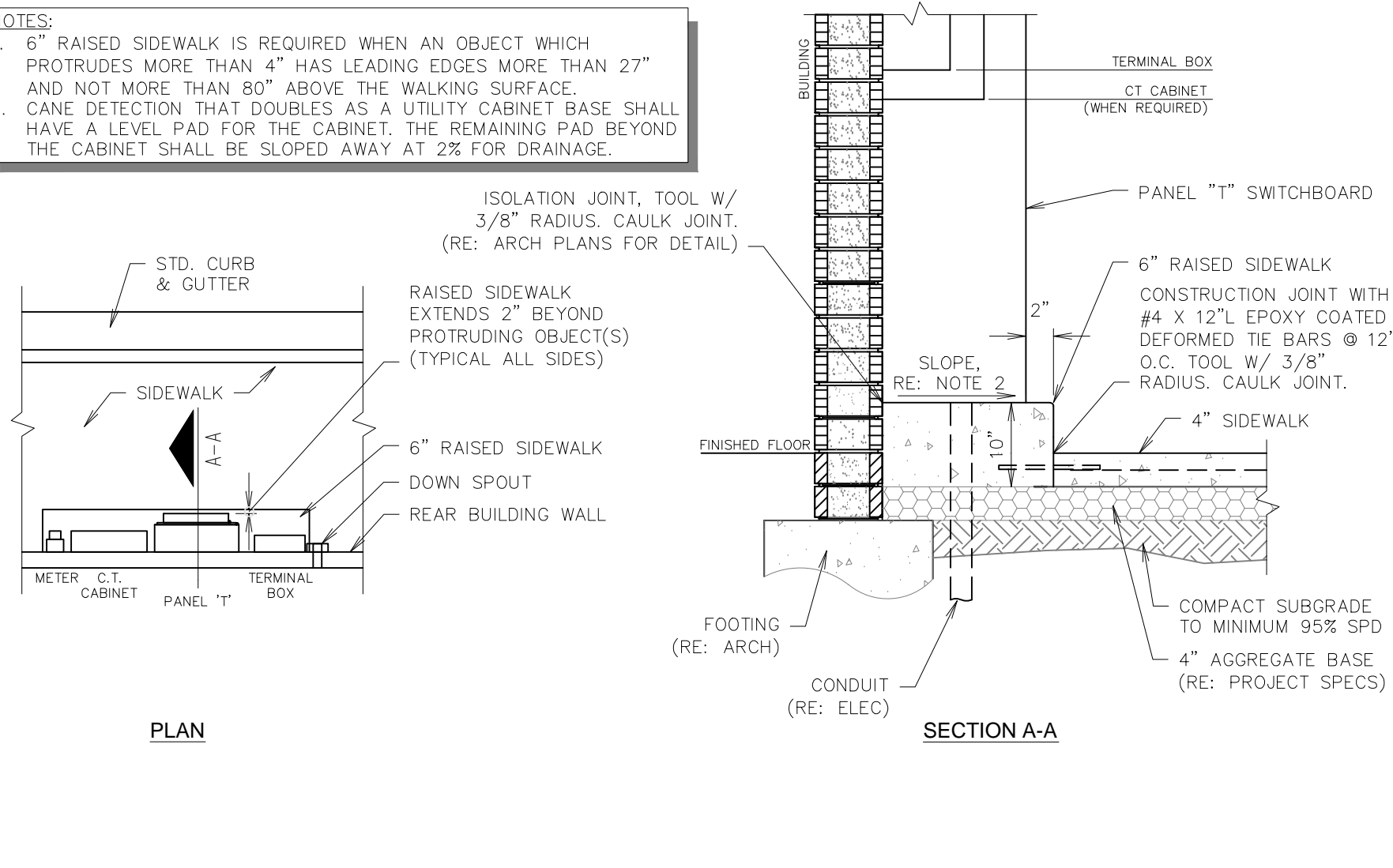
**F1** AIR SERVICE INSTALL PLAN (LEFT HAND INSTALL)  
NTS SN: AD004B008



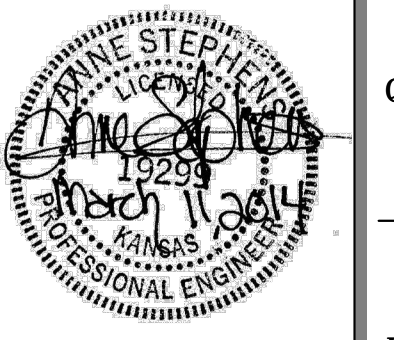
**F11** RAMP - CURB TRANSITION PAINTING DETAIL  
NTS SN: AD015A002



**A1** ADA ACCESS RAMP AT DRIVE  
NTS SN: AD006A005

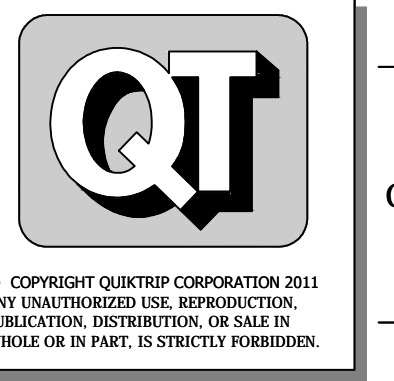


**A11** CANE DETECTION FOR PROTRUDING OBJECTS  
NTS SN: AD014A003



PROJECT NO.: 13.W008  
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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
Wichita, Sedgwick County, Kansas



PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

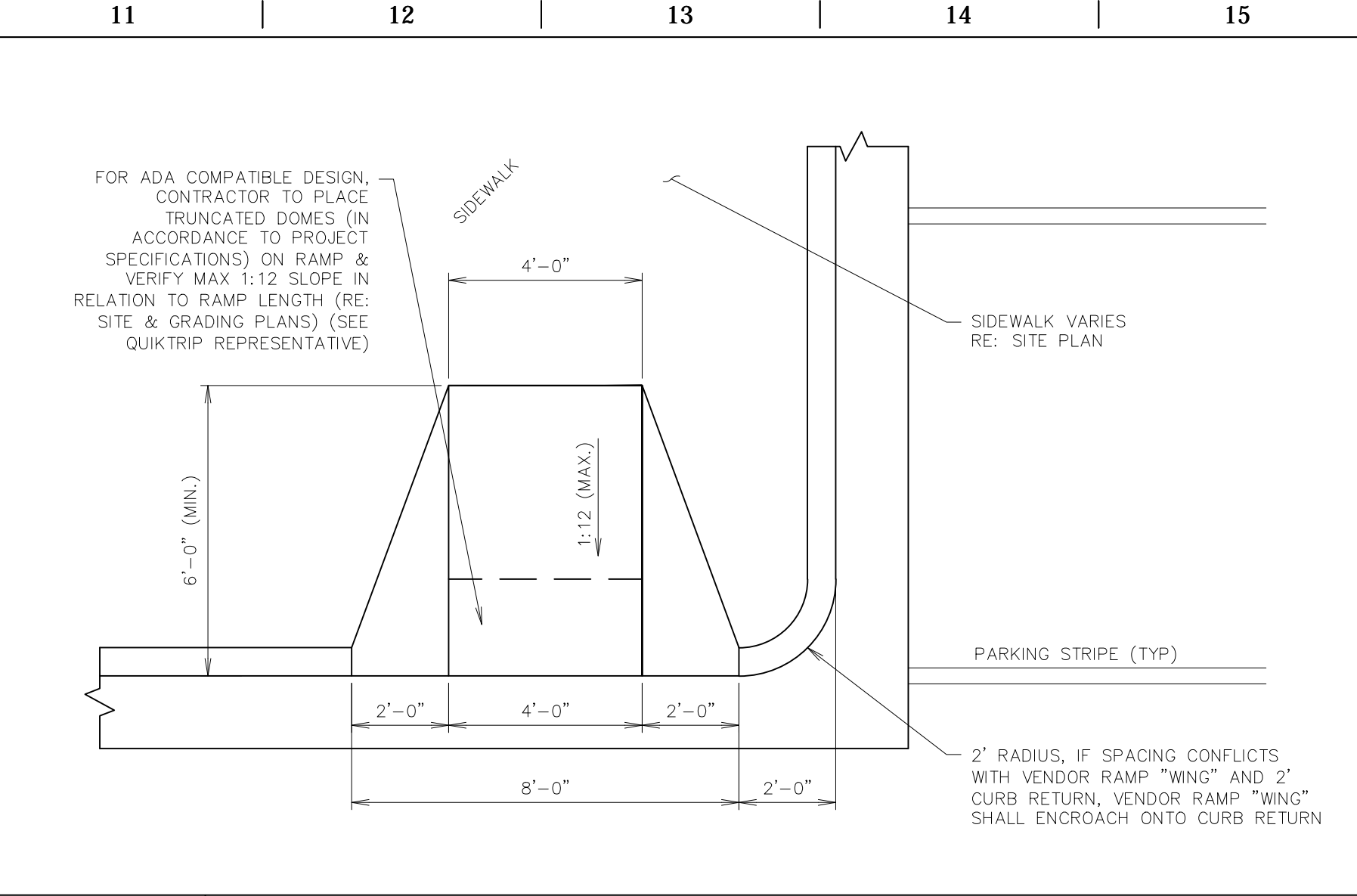
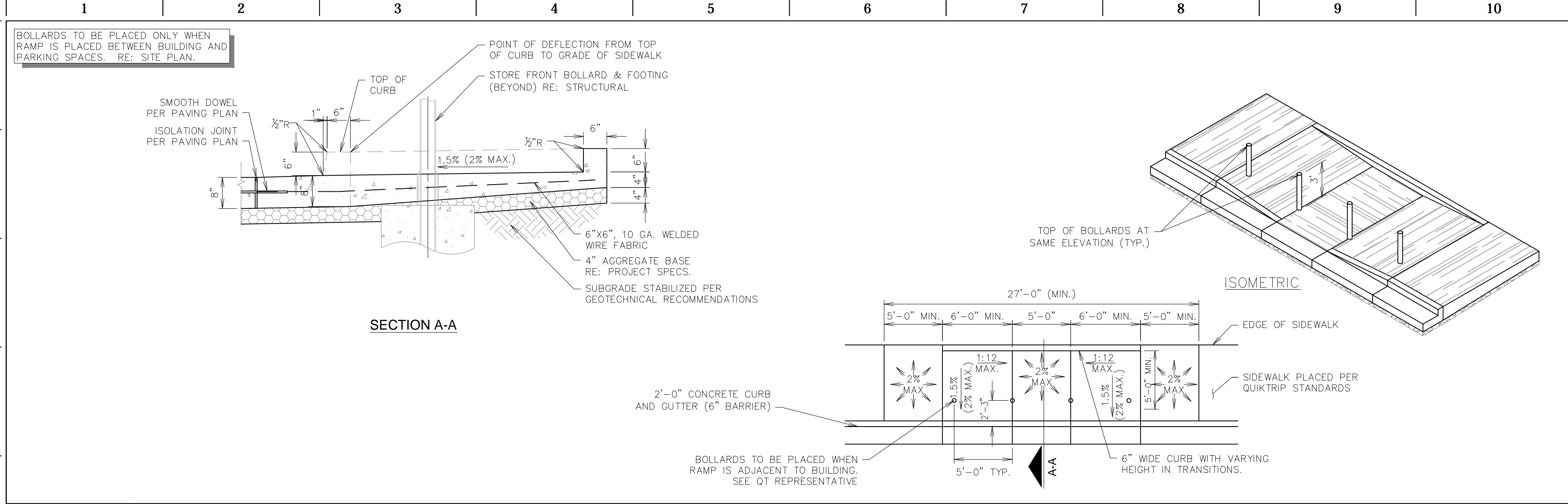
REV.	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION TO CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

SHEET TITLE:  
ADA DETAILS  
SHEET NUMBER:  
**C510**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

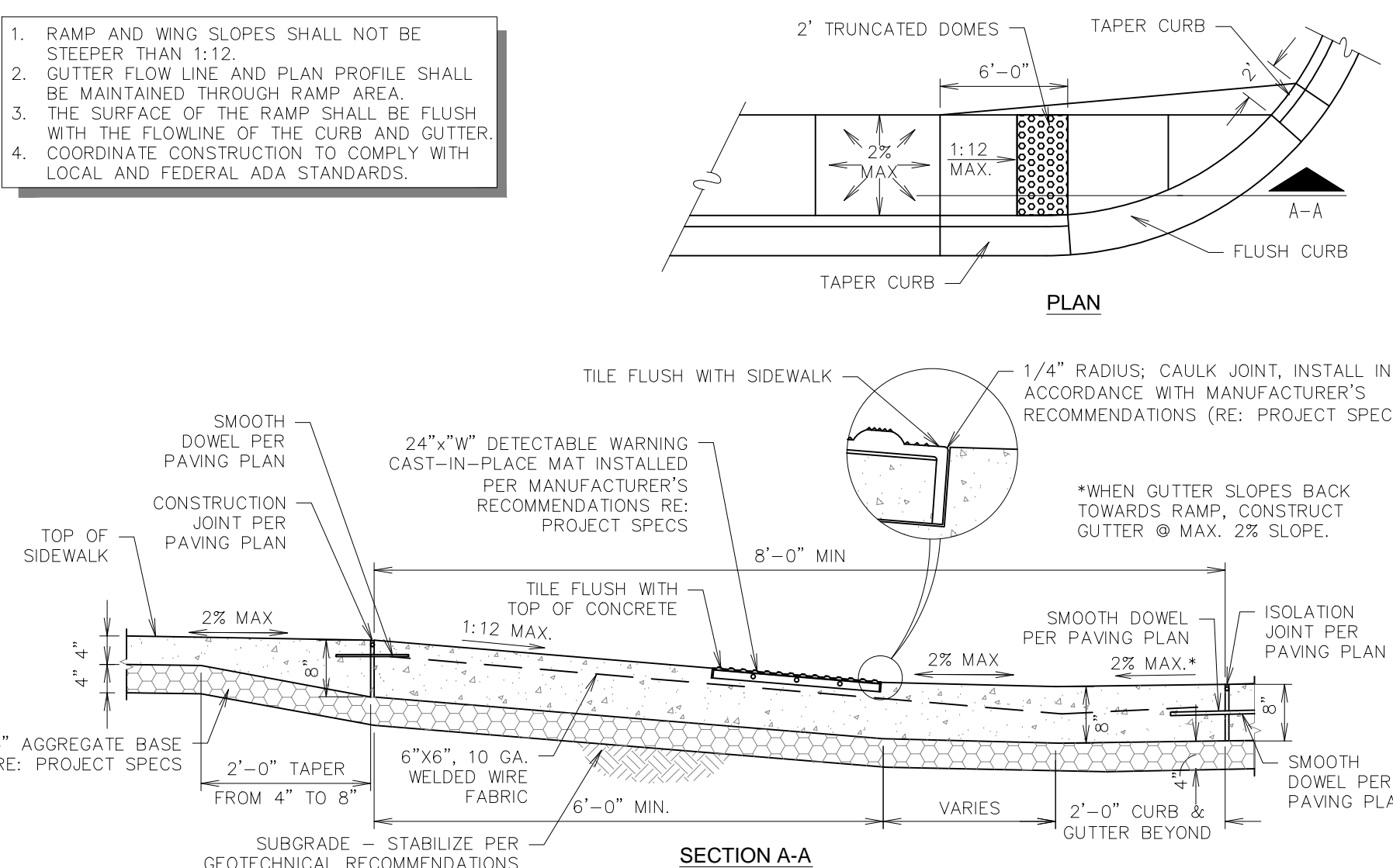
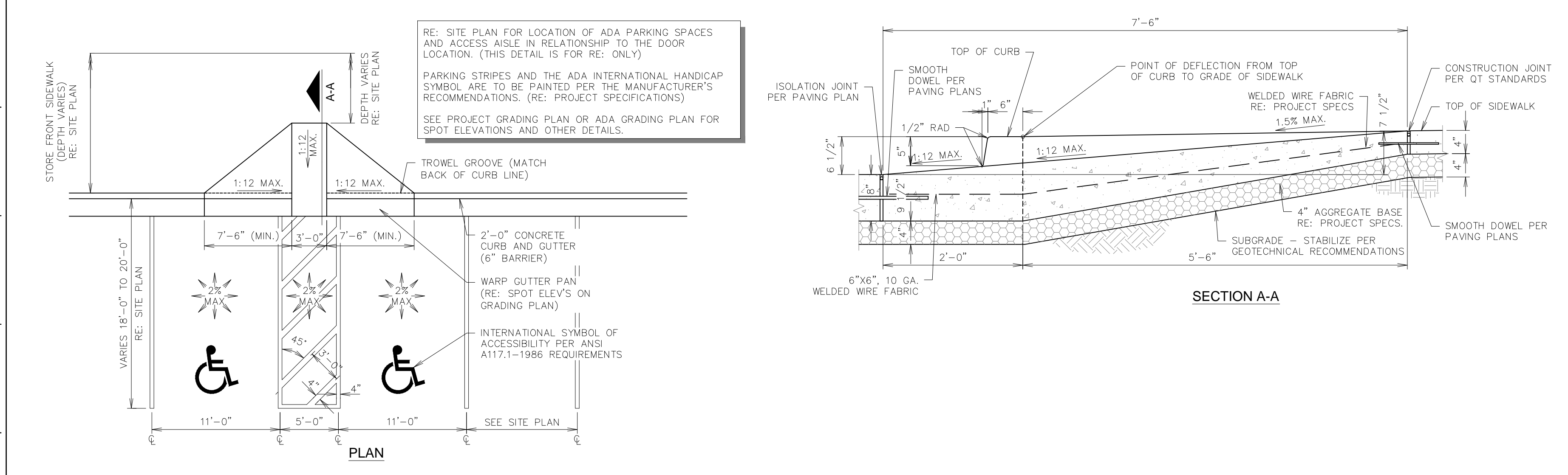
Q P N M L K J H G F E D C B A

FILE LOCATION: W:\Projects\13.W008 QuikTrip No. 0313 Construction Plans\CAD Files\Dwg\Drawings\Submittals\DETAILS SHEETS\DETAILS ADA C510-C511.dwg TAB NAME: ADA Detail Sheet 2 USER: alopez SAVED: 3/12/2014 8:14 AM PLOTTED: 3/12/2014 8:16 AM



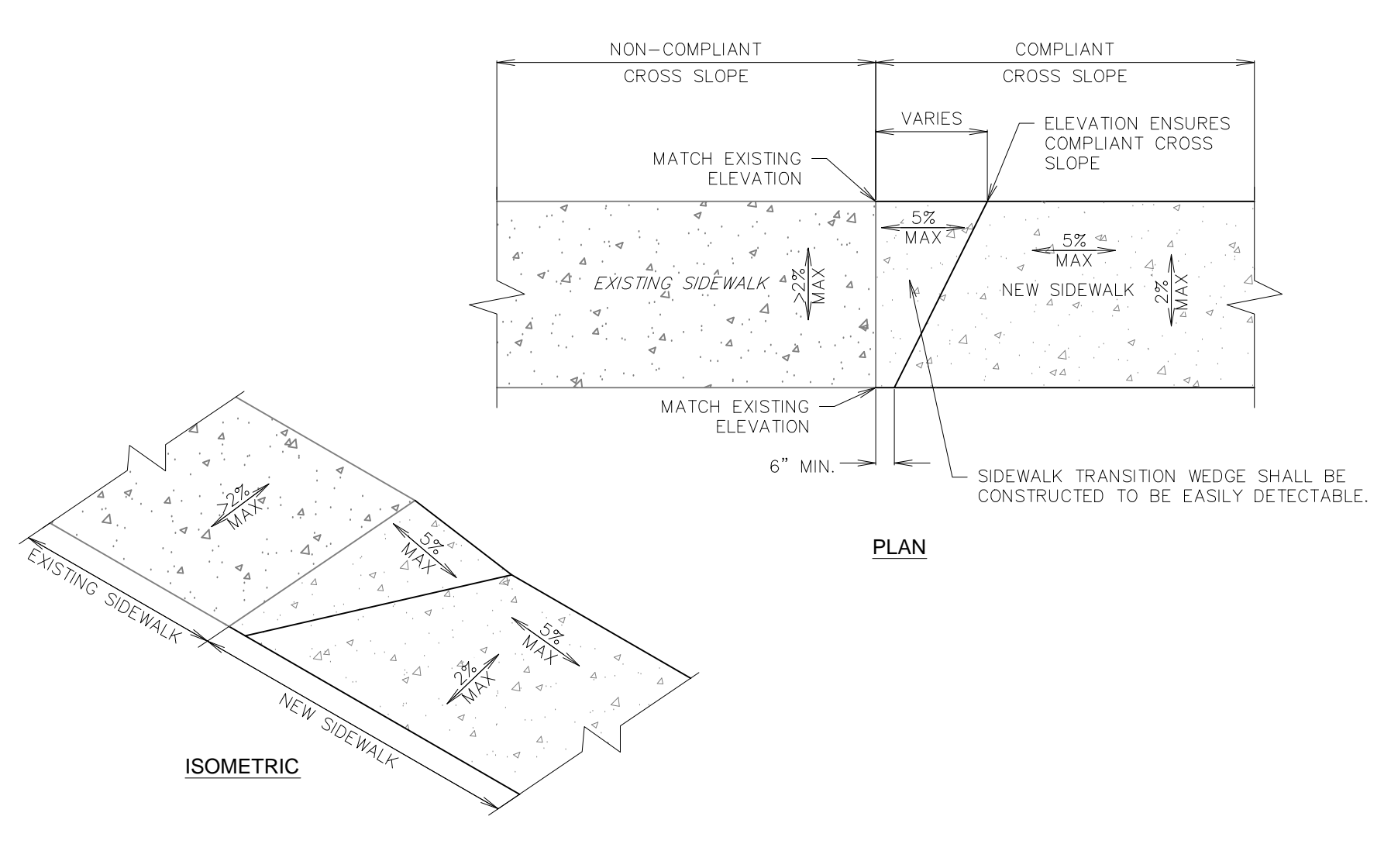
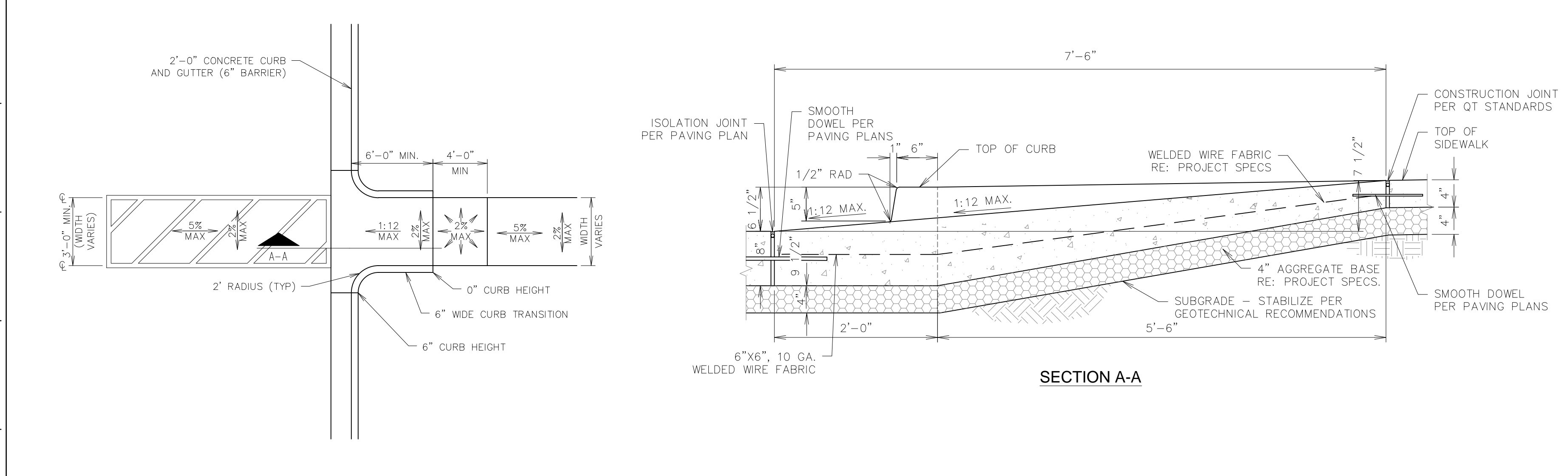
**L1** PARALLEL CURB RAMP - ABUTTING BUILDING  
NTS SN: AD007A005

**L11** VENDOR RAMP  
NTS SN: AD005A002



**F1** DOUBLE STALL ADA PARKING STRIPING W/ CURB RAMP DETAIL (UNIVERSAL LAYOUT)  
NTS SN: AD008B008

**F11** CURB RAMP ADJACENT TO PUBLIC STREET CURB & GUTTER  
NTS SN: AD010A003



**A1** PARKING LOT CURB RAMP @ ADA CROSSING  
NTS SN: AD012A003

**A11** SIDEWALK TRANSITION WEDGE DETAIL  
NTS SN: AD013A002

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DRAWN BY: AL
REVIEWED BY: MB

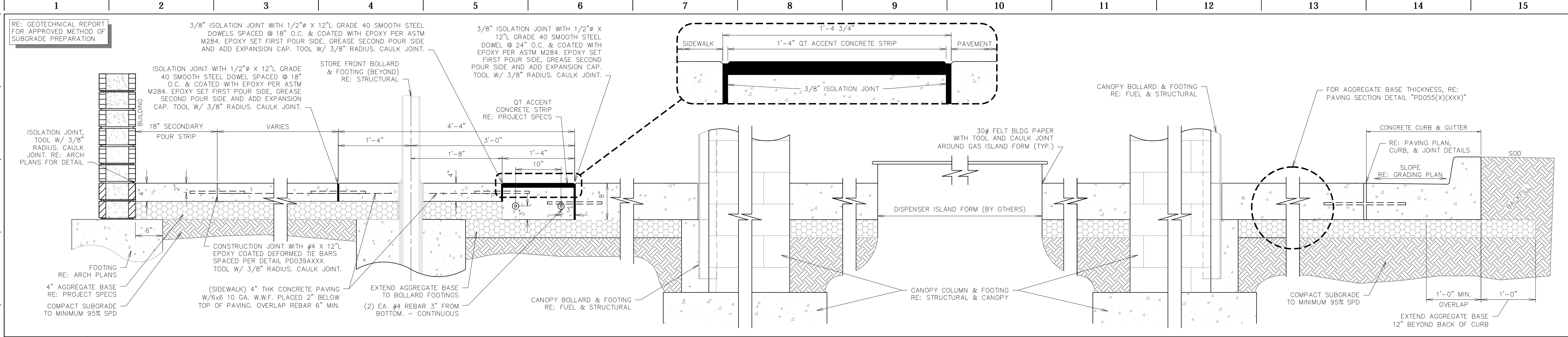
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2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION TO CITY COMMENTS
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5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	QT FINAL COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

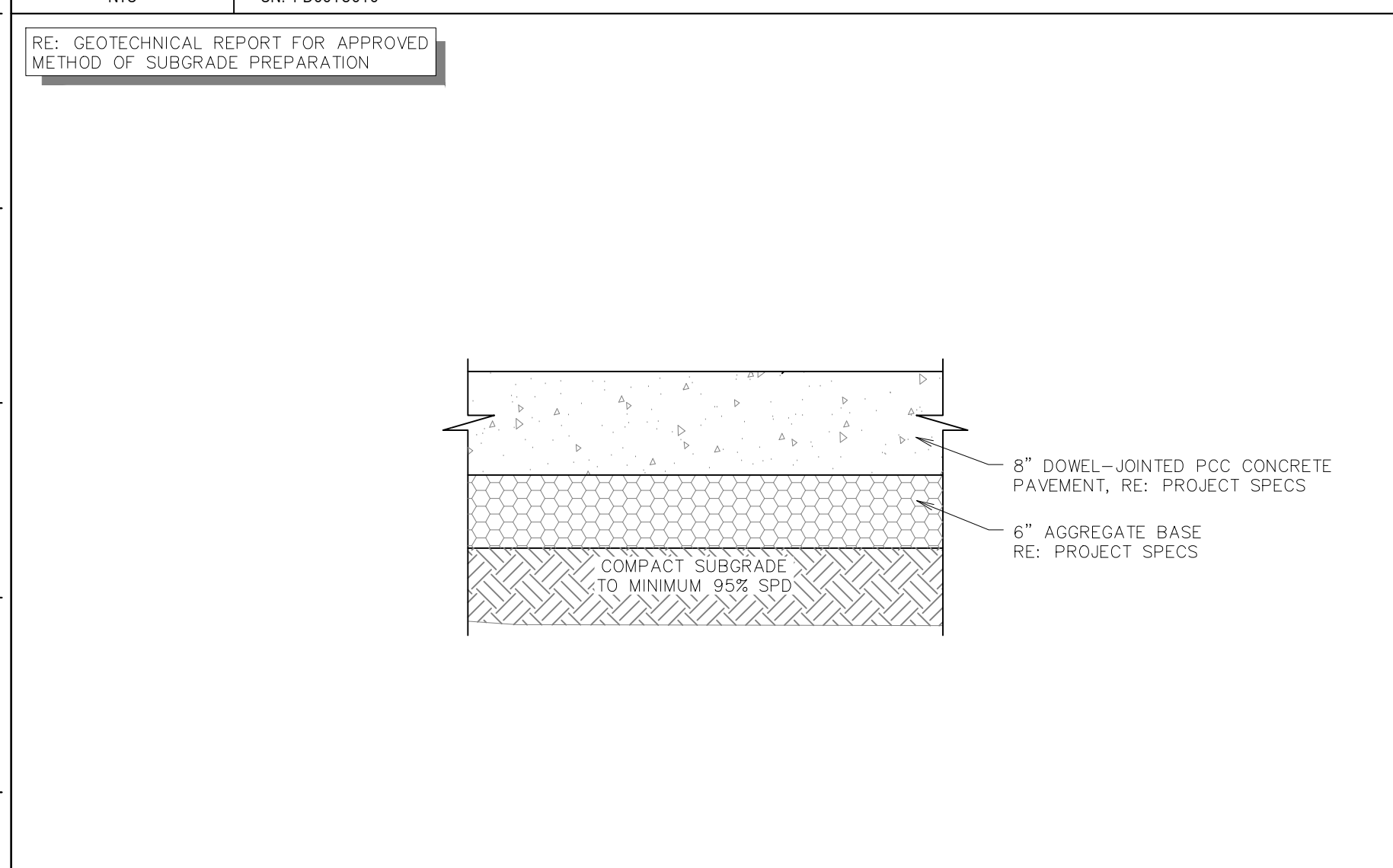
SHEET TITLE:  
ADA DETAILS

SHEET NUMBER:  
C511

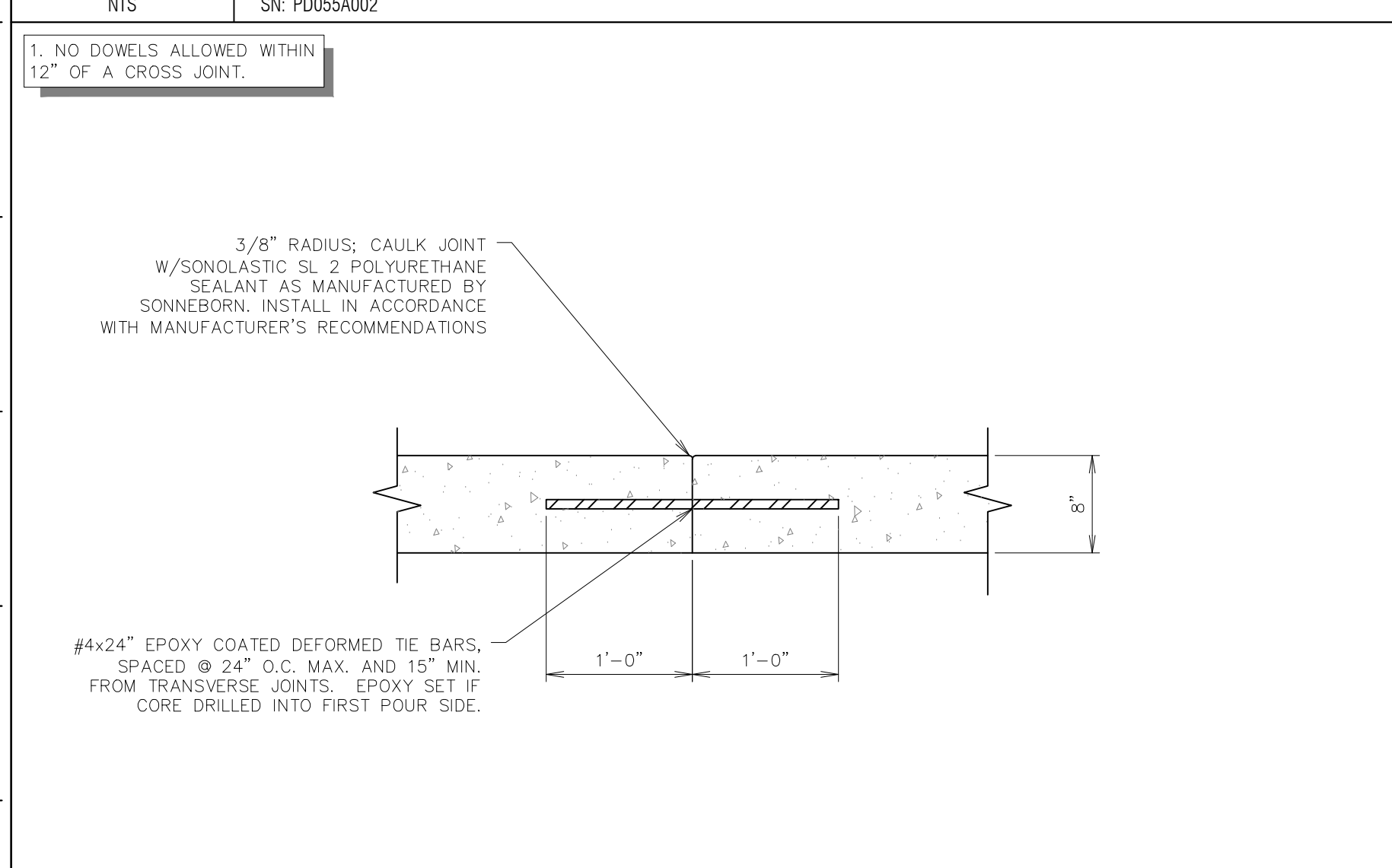
FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg & Pdf Submittals\Details Sheets\Details Sheets\C520-C523.dwg TAB NAME: Paving Detail Sheet 1 USER: Alopez SAVED: 11/26/2013 4:25 PM PLOTTED: 3/12/2014 8:19 AM



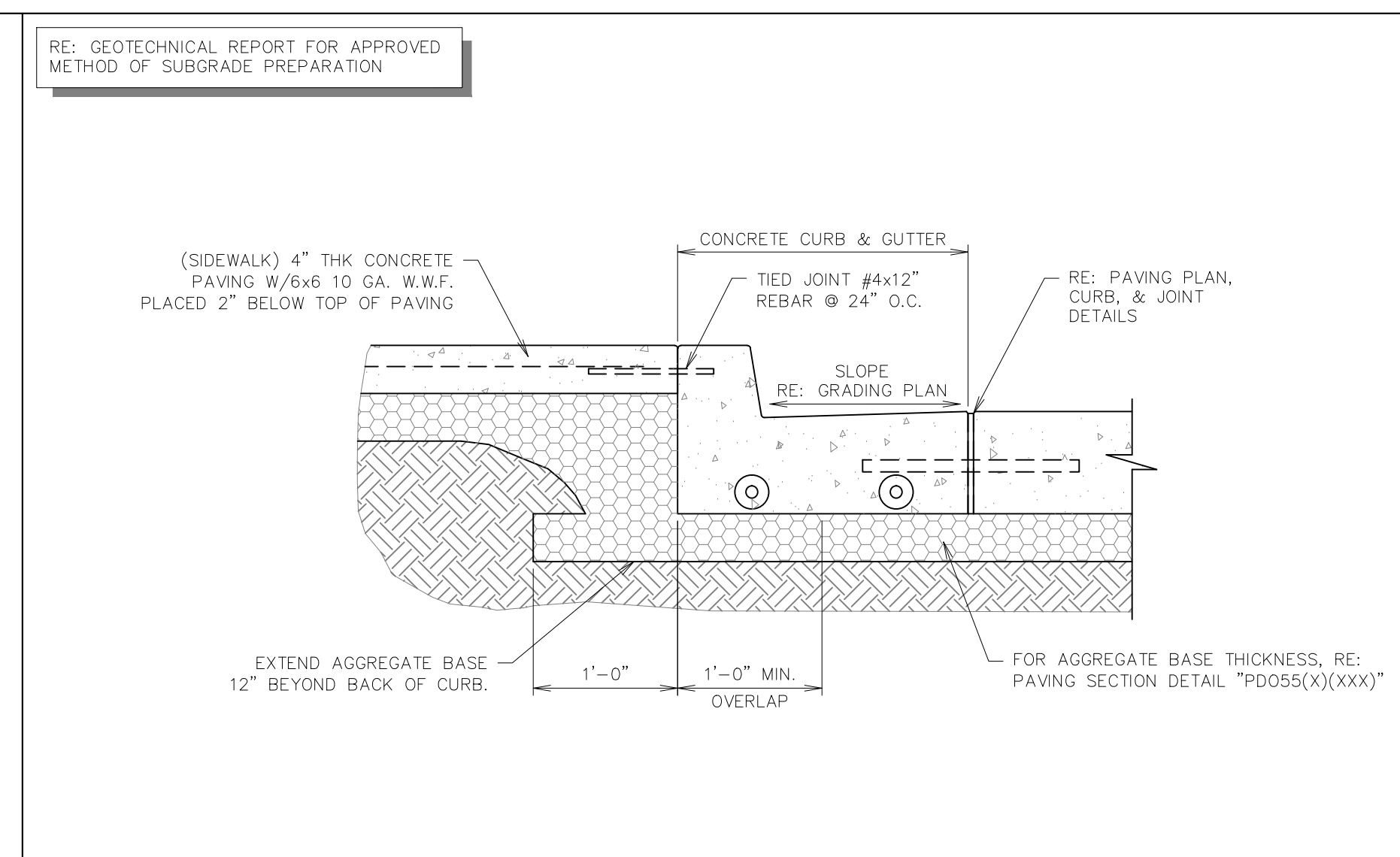
**L1** PAVING SECTION THROUGH SITE W/ STORE FRONT BOLLARDS (GEN III)  
NTS SN: PD001C010



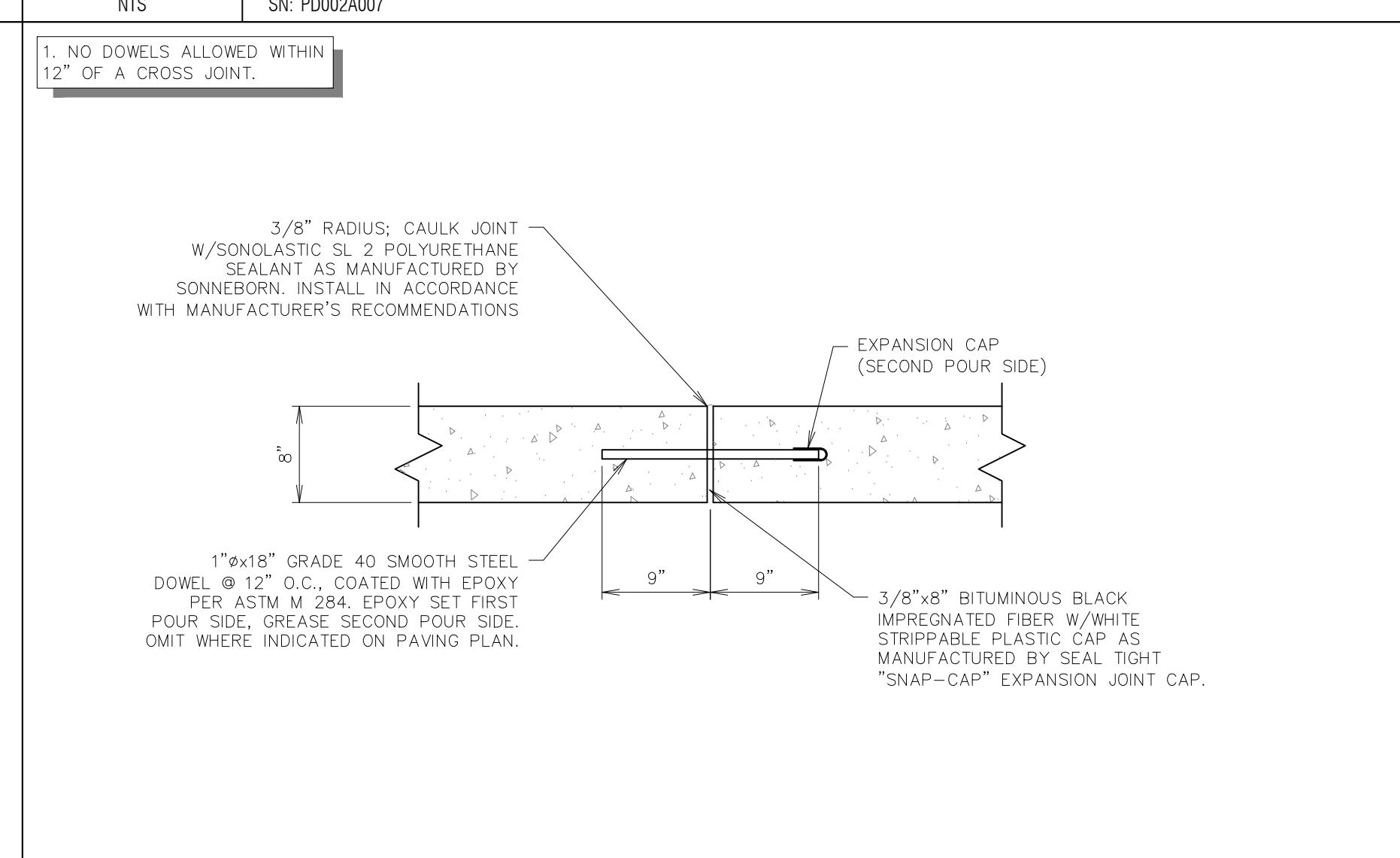
**F1** PAVING SECTION DETAIL (6" AGG.)  
NTS SN: PD055A002



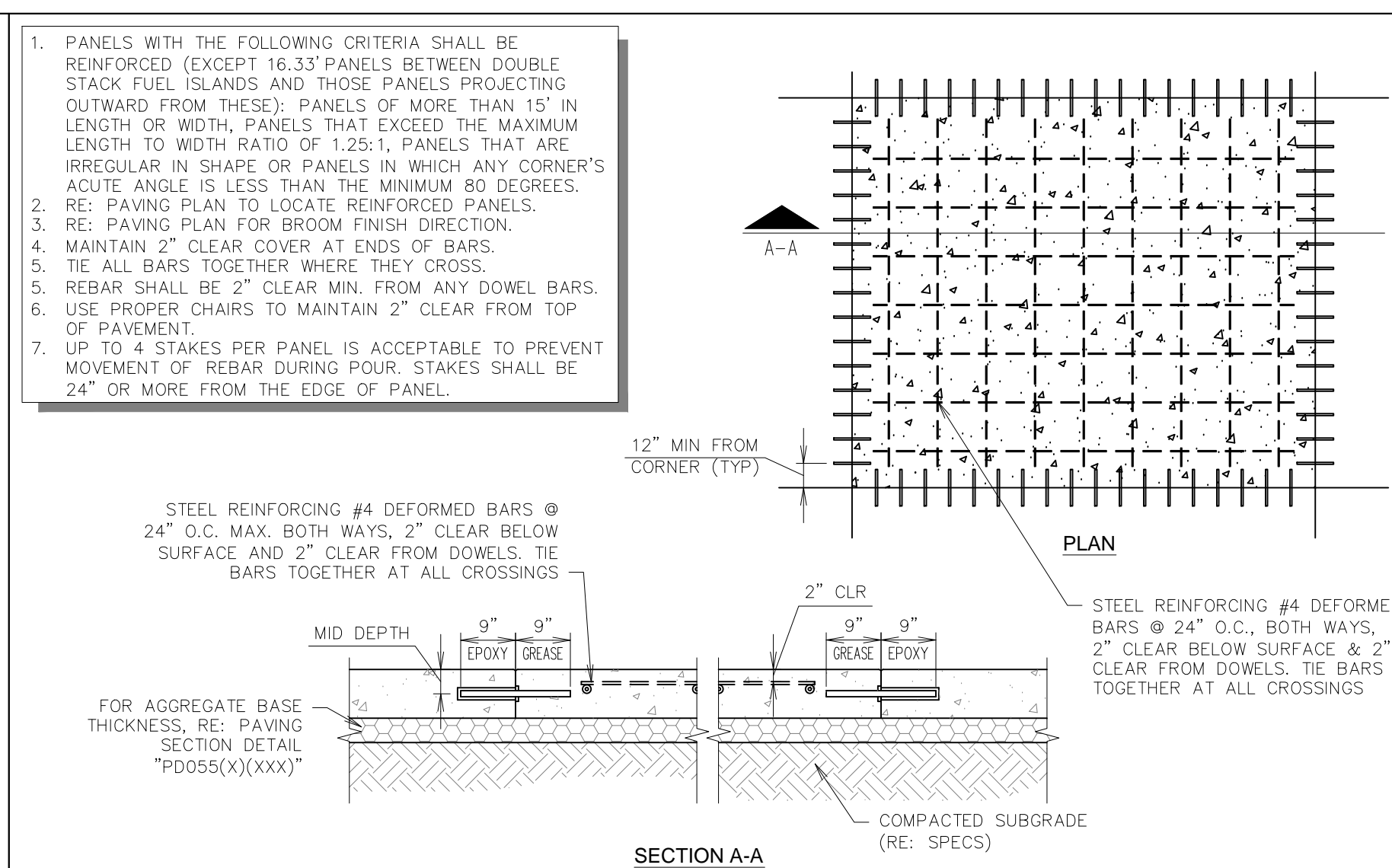
**A1** PAVING JOINT - TIED  
NTS SN: PD004A005



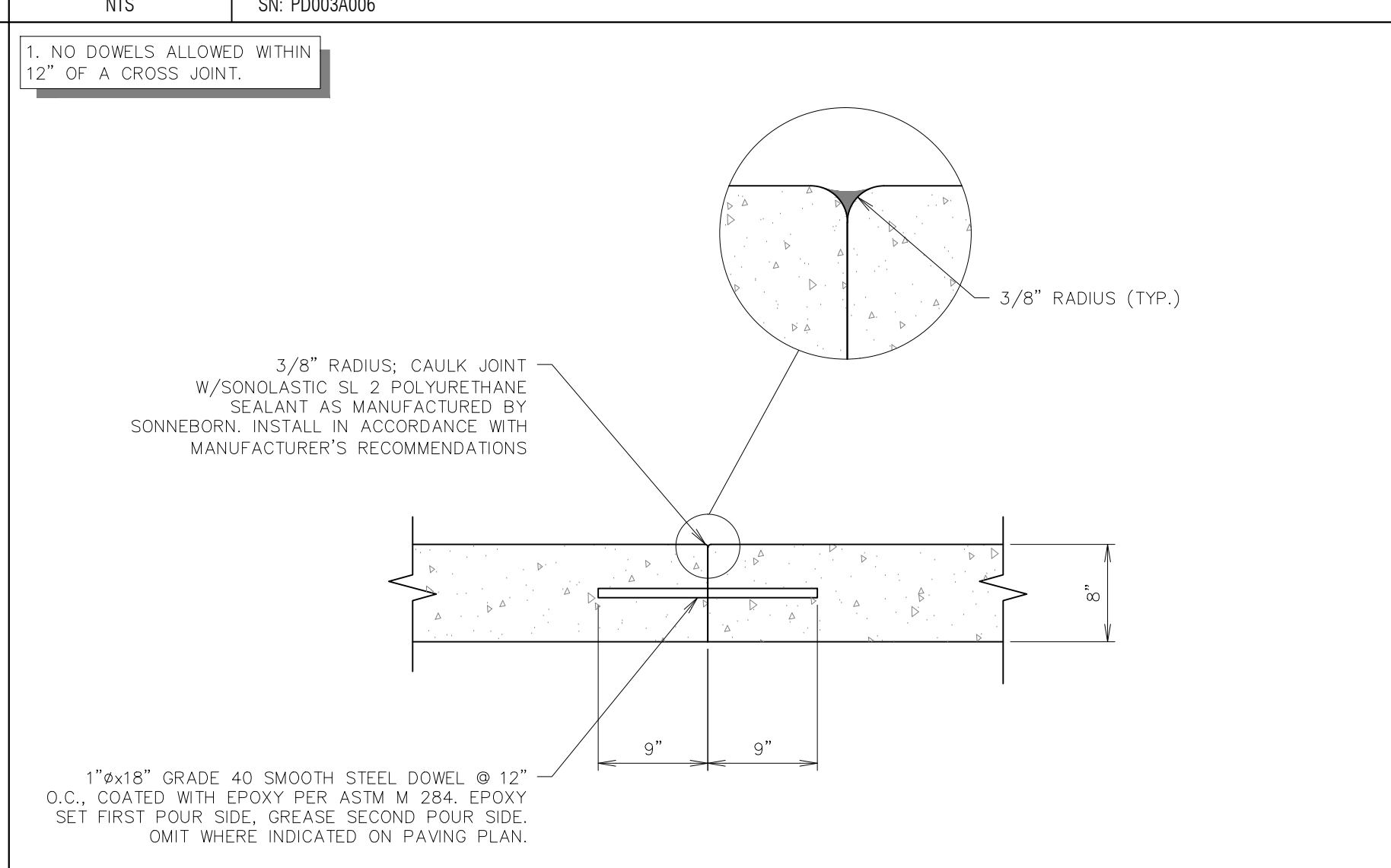
**F6** SIDEWALK SECTION ABUTTING CURB & GUTTER  
NTS SN: PD002A007



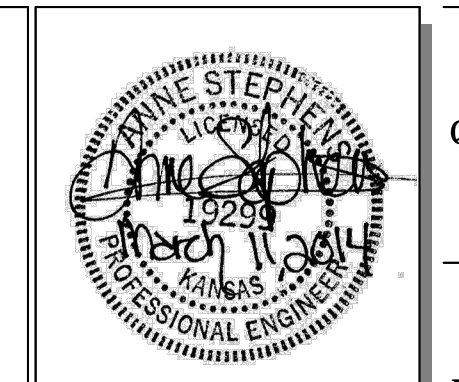
**A6** PAVING JOINT - ISOLATION  
NTS SN: PD005A004



**F11** PAVEMENT REINFORCING DETAIL  
NTS SN: PD003A006



**A11** PAVING JOINT - CONSTRUCTION  
NTS SN: PD006A004

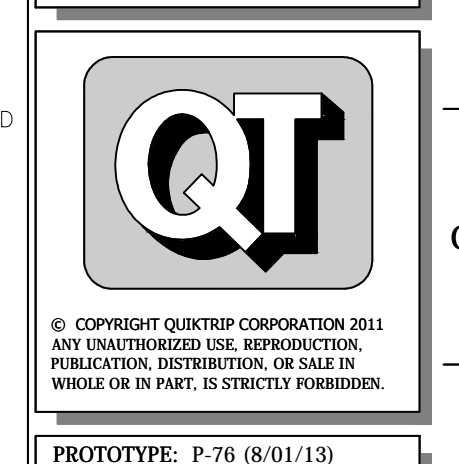


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REVIEWED BY: MB

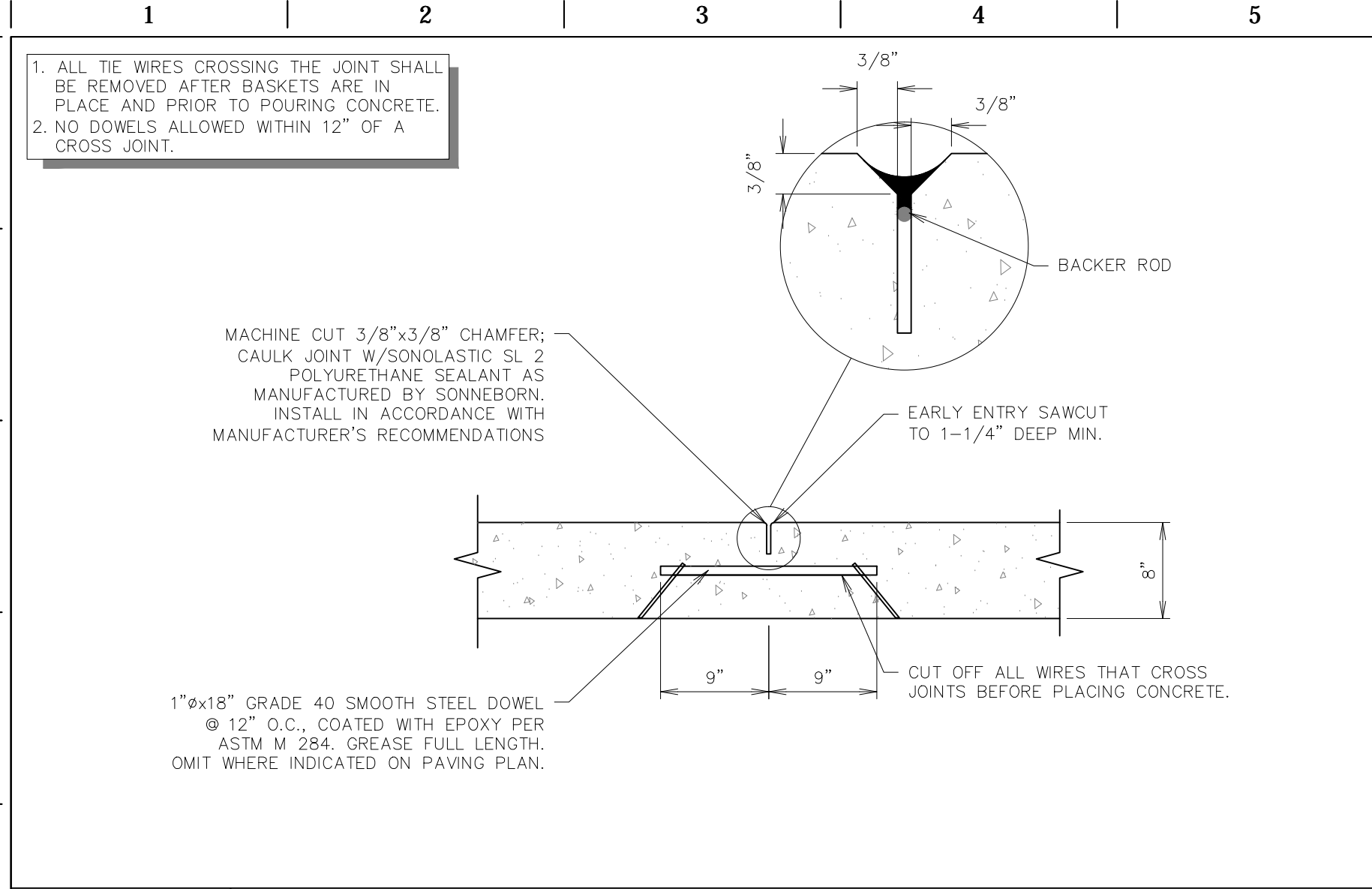
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1	9/6/13	QT COMMENT REVISIONS
2	10/27/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISID PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
PAVING DETAILS

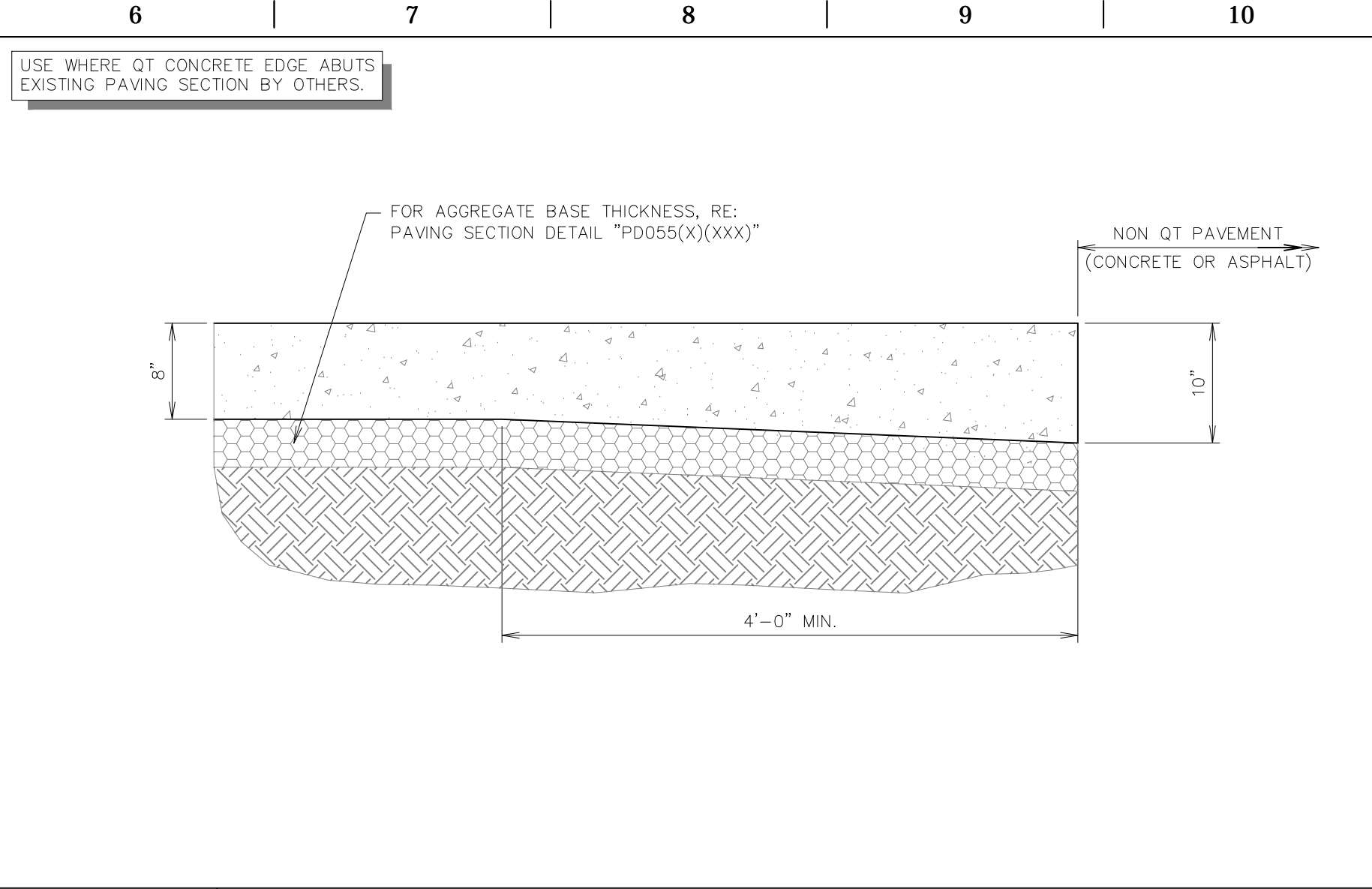
SHEET NUMBER:  
**C520**

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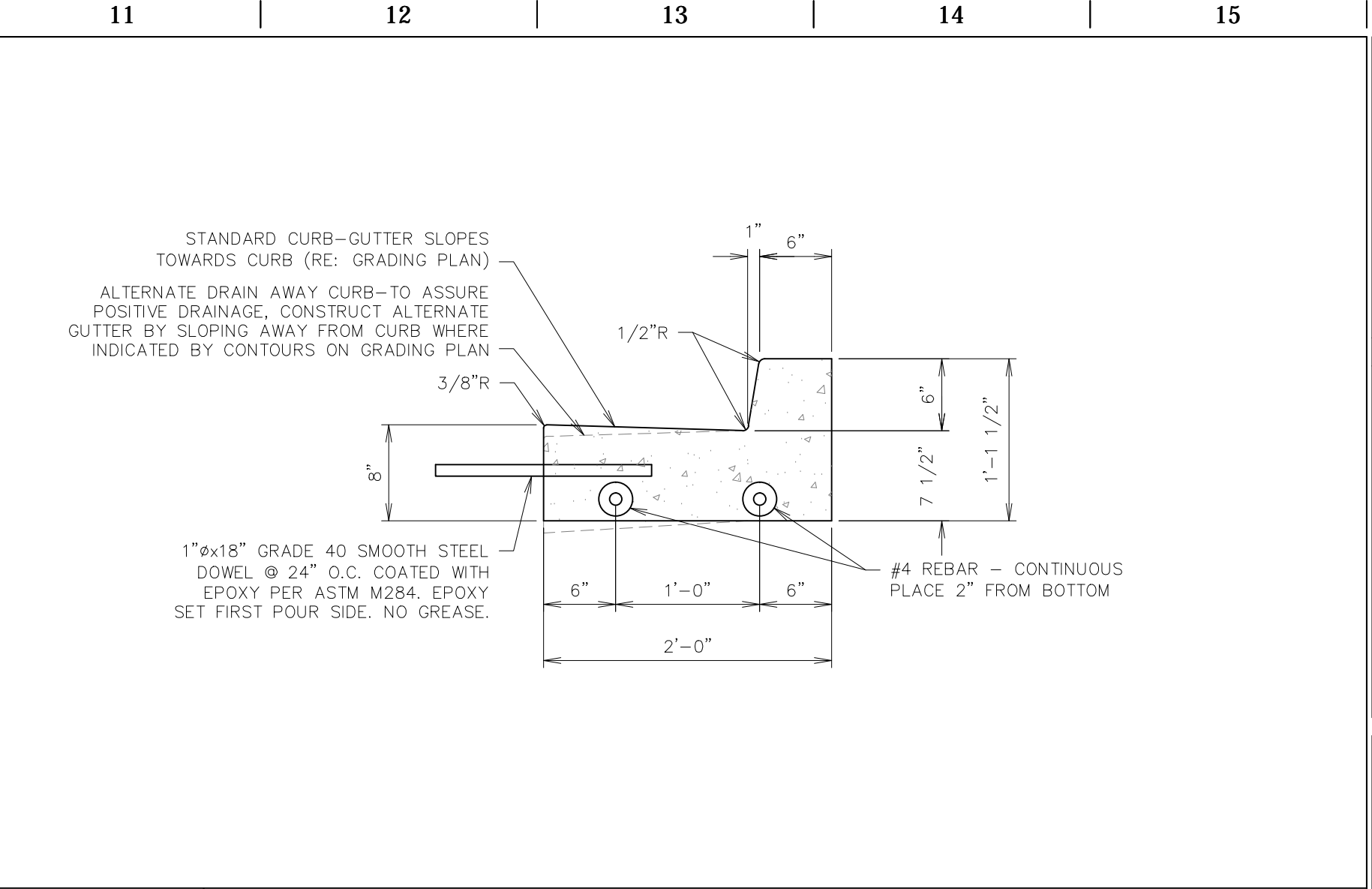
**L1** PAVING JOINT - CONTRACTION

NTS SN: PD007A006



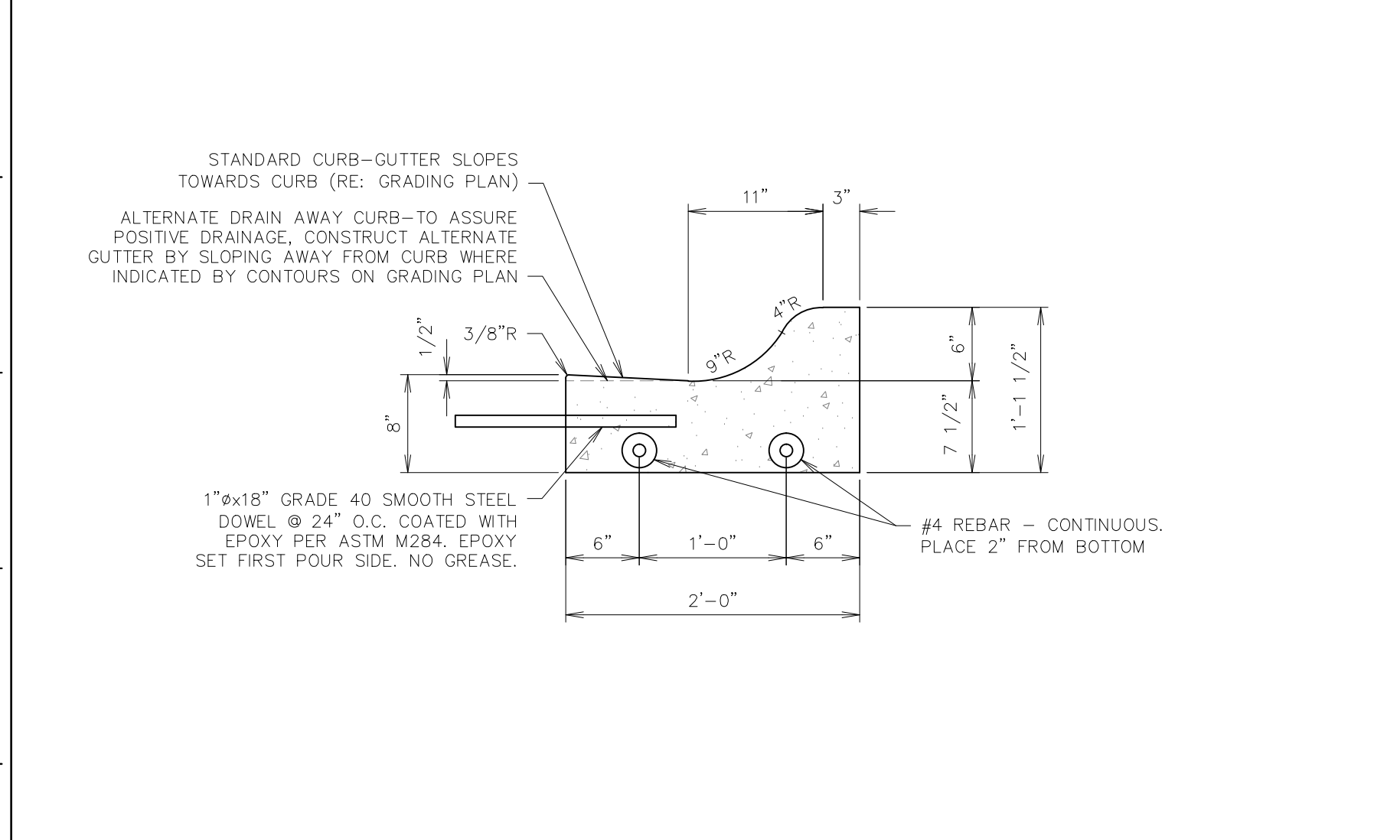
**L6** THICKENED EDGE SECTION

NTS SN: PD008A006



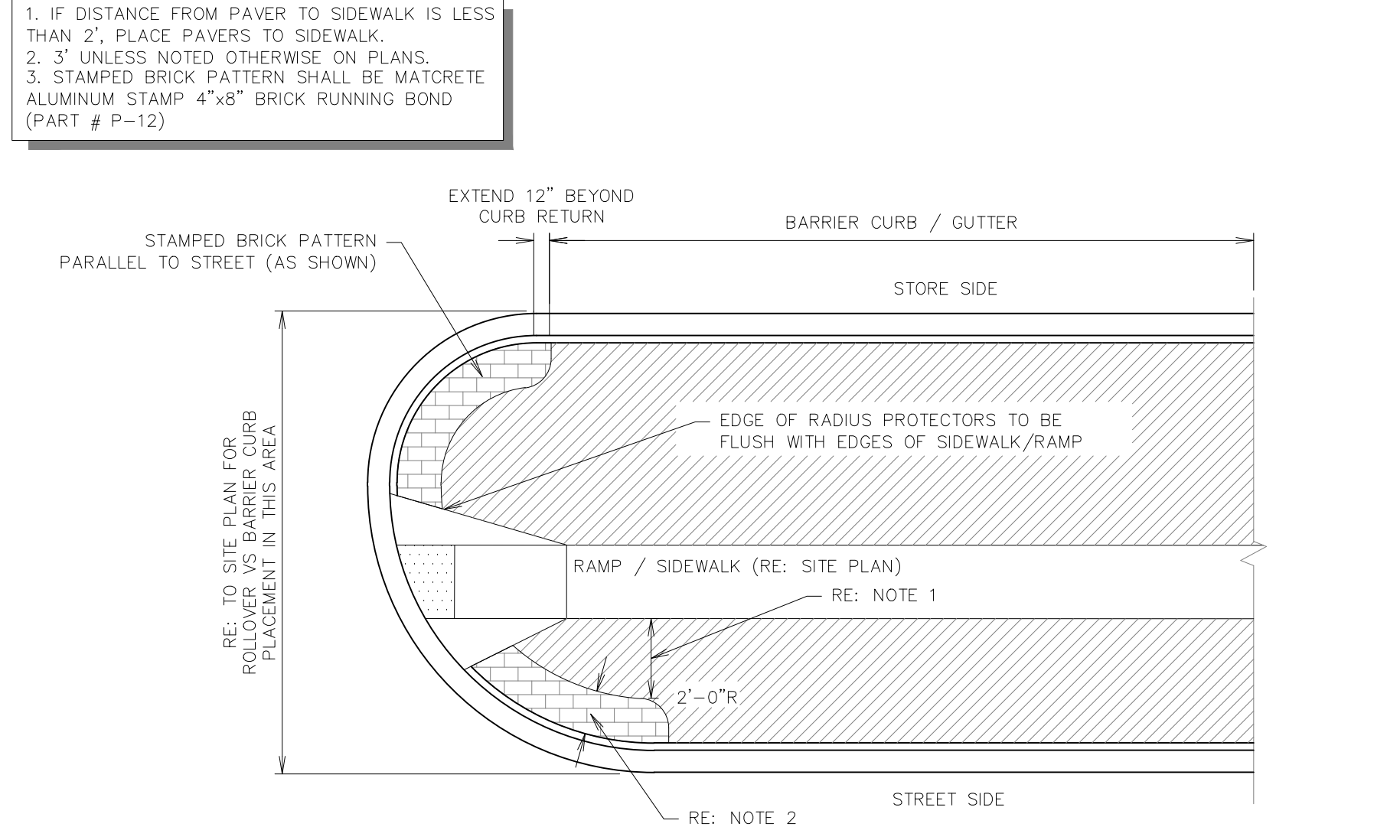
**L11** CURB DETAIL - BARRIER

NTS SN: PD009A006



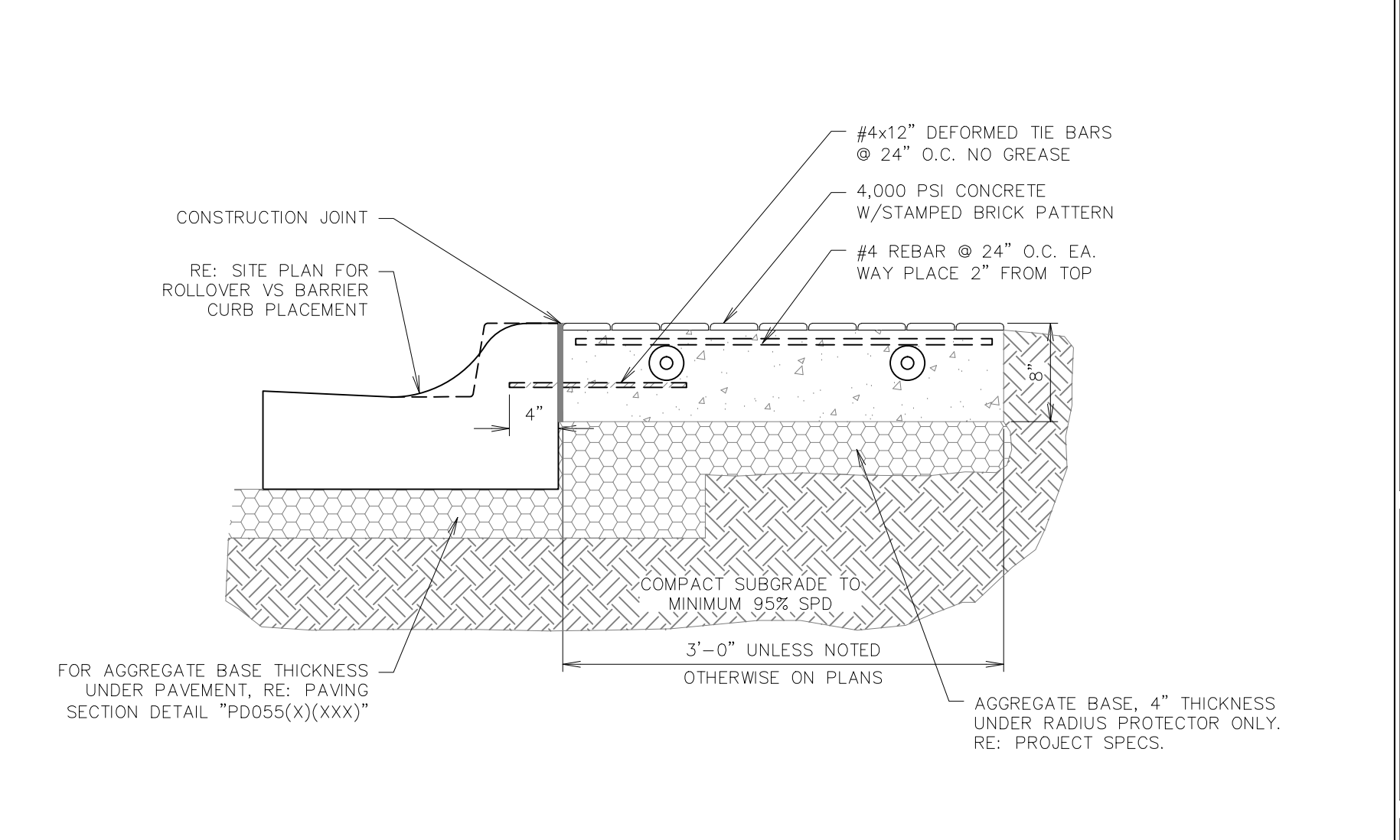
**F1** CURB DETAIL - ROLLOVER / MOUNTABLE

NTS SN: PD010A005



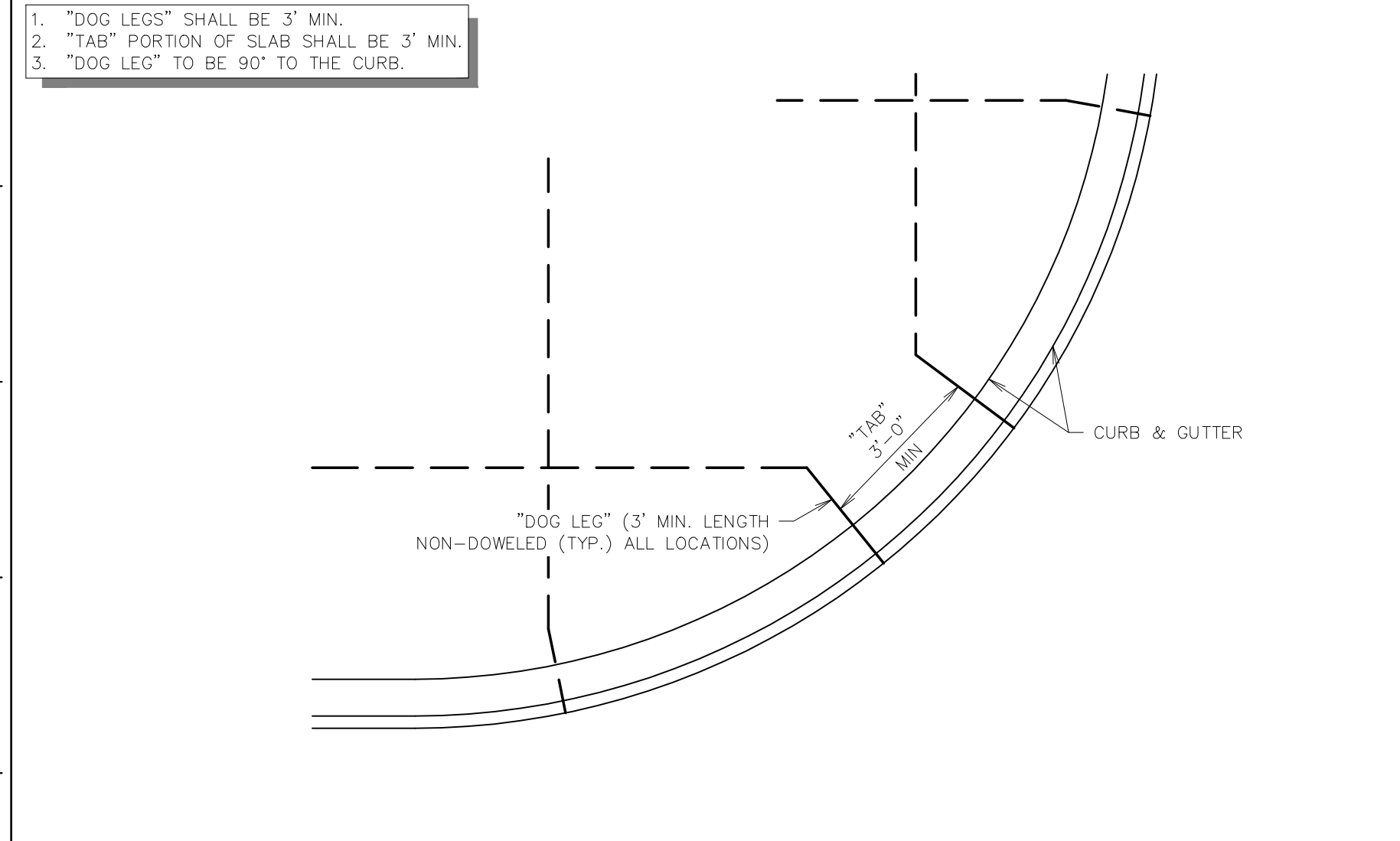
**F6** RADIUS PROTECTOR PLAN

NTS SN: PD016A002



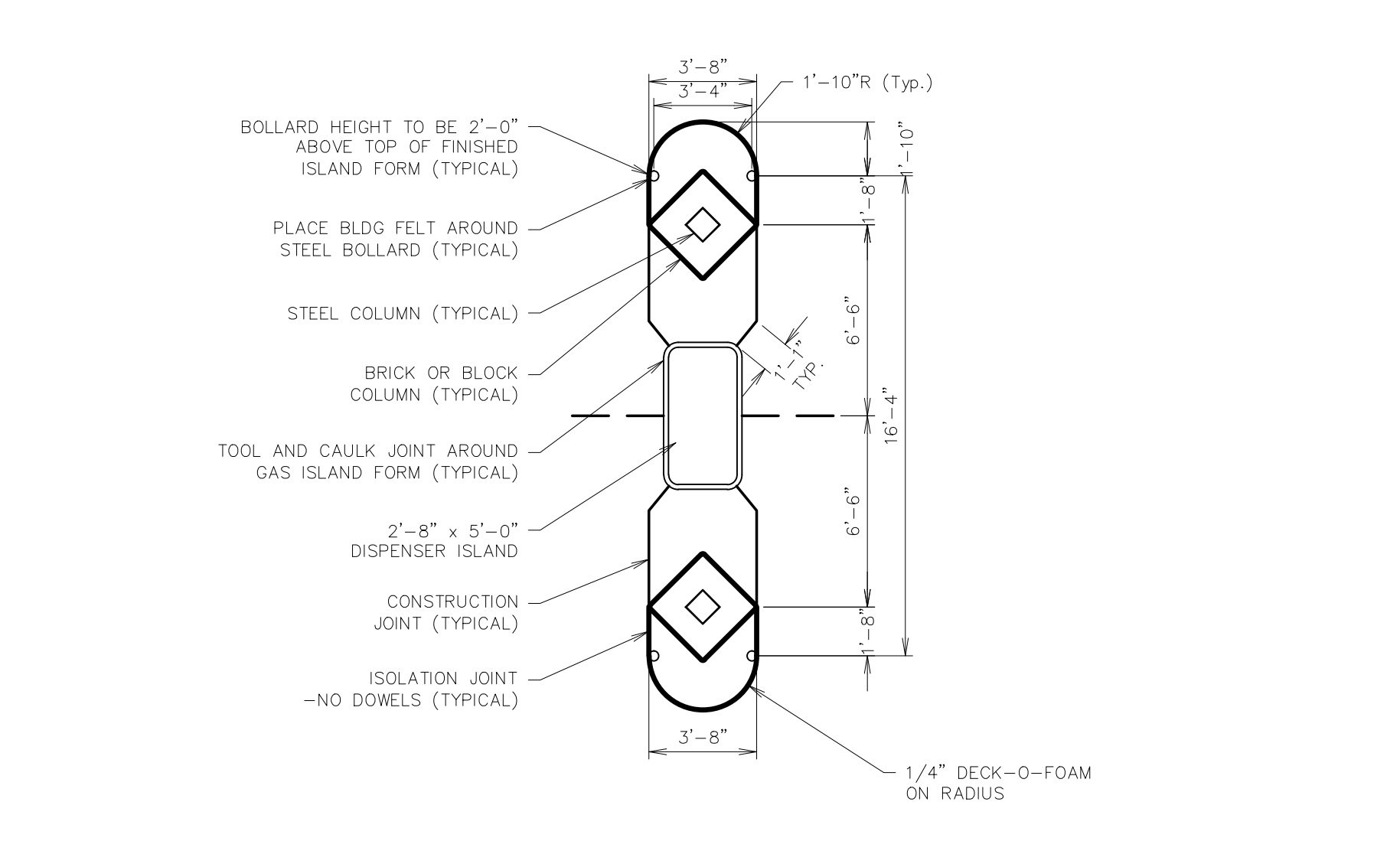
**F11** STANDARD RADIUS PROTECTOR SECTION

NTS SN: PD017A008



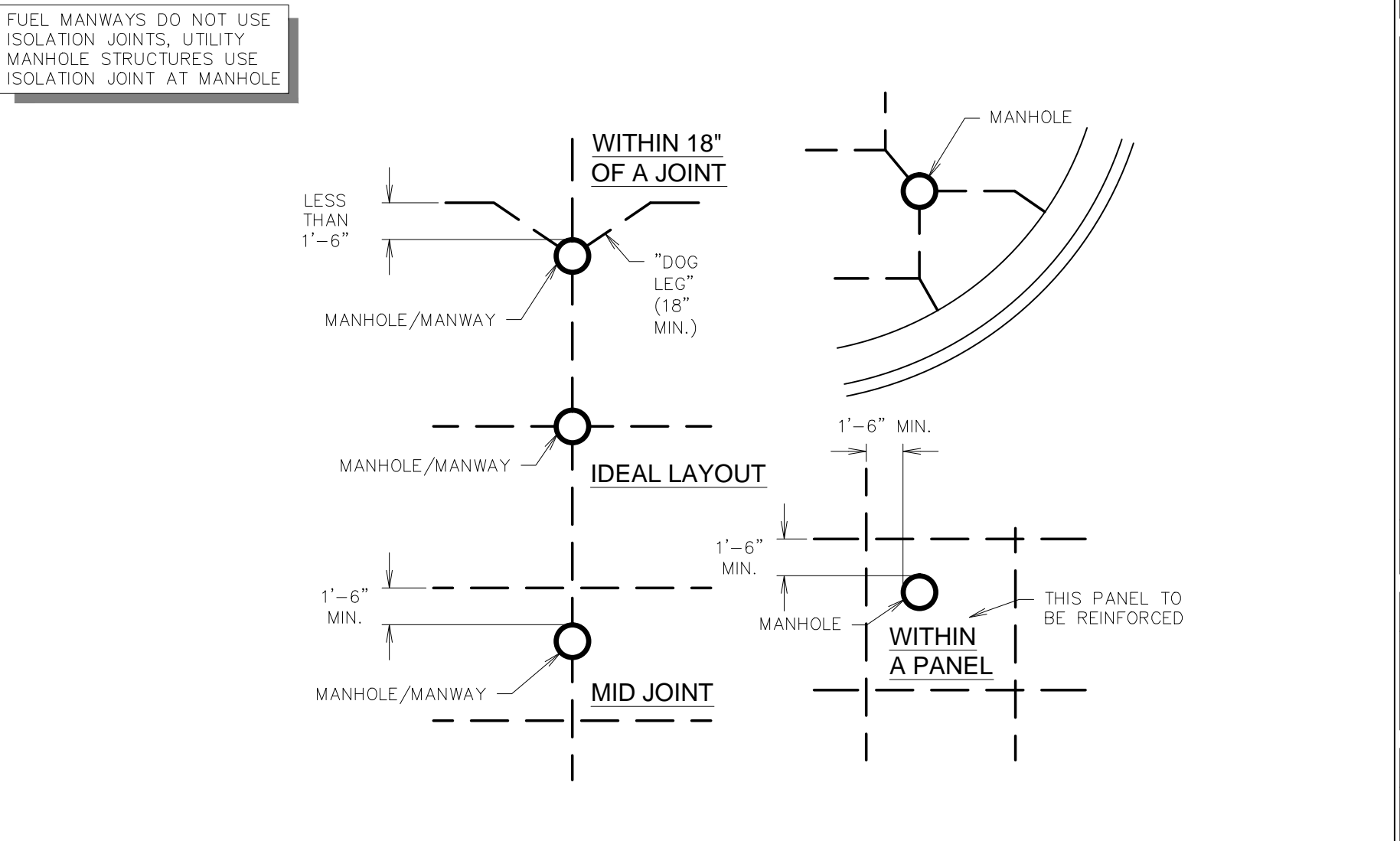
**A1** TYPICAL JOINT LAYOUT - AT RADIUS AND ANGLES

NTS SN: PD019A005



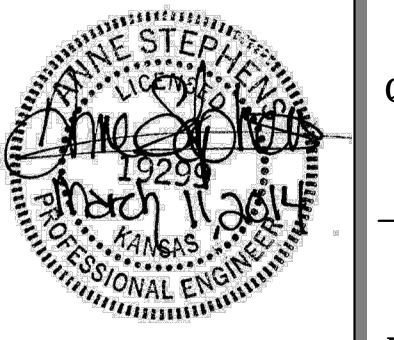
**A6** GAS ISLAND JOINTING - (GEN III)

NTS SN: PD020C006



**A11** TYPICAL MANHOLE / FUEL MANWAY JOINT LAYOUTS

NTS SN: PD021A003

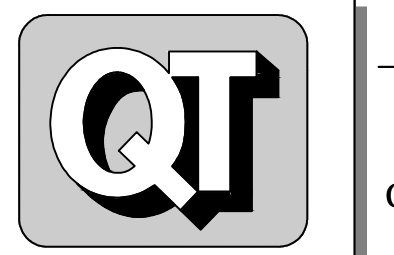


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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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DIVISION: WICHITA
VERSION: 001
DESIGNED BY: AS
DRAWN BY: AL
REVIEWED BY: MB

REV.	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

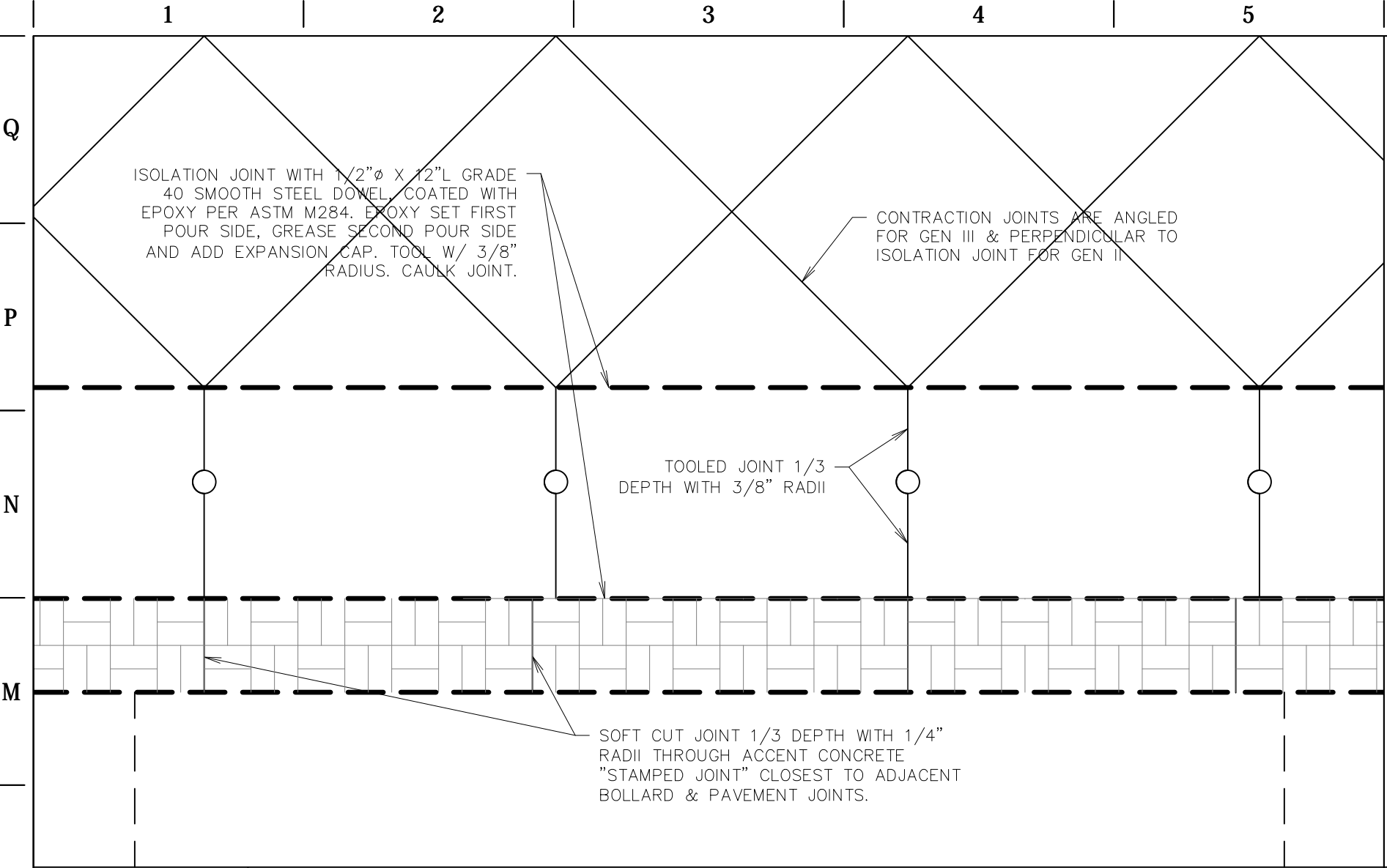
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
PAVING DETAIL SHEET 2

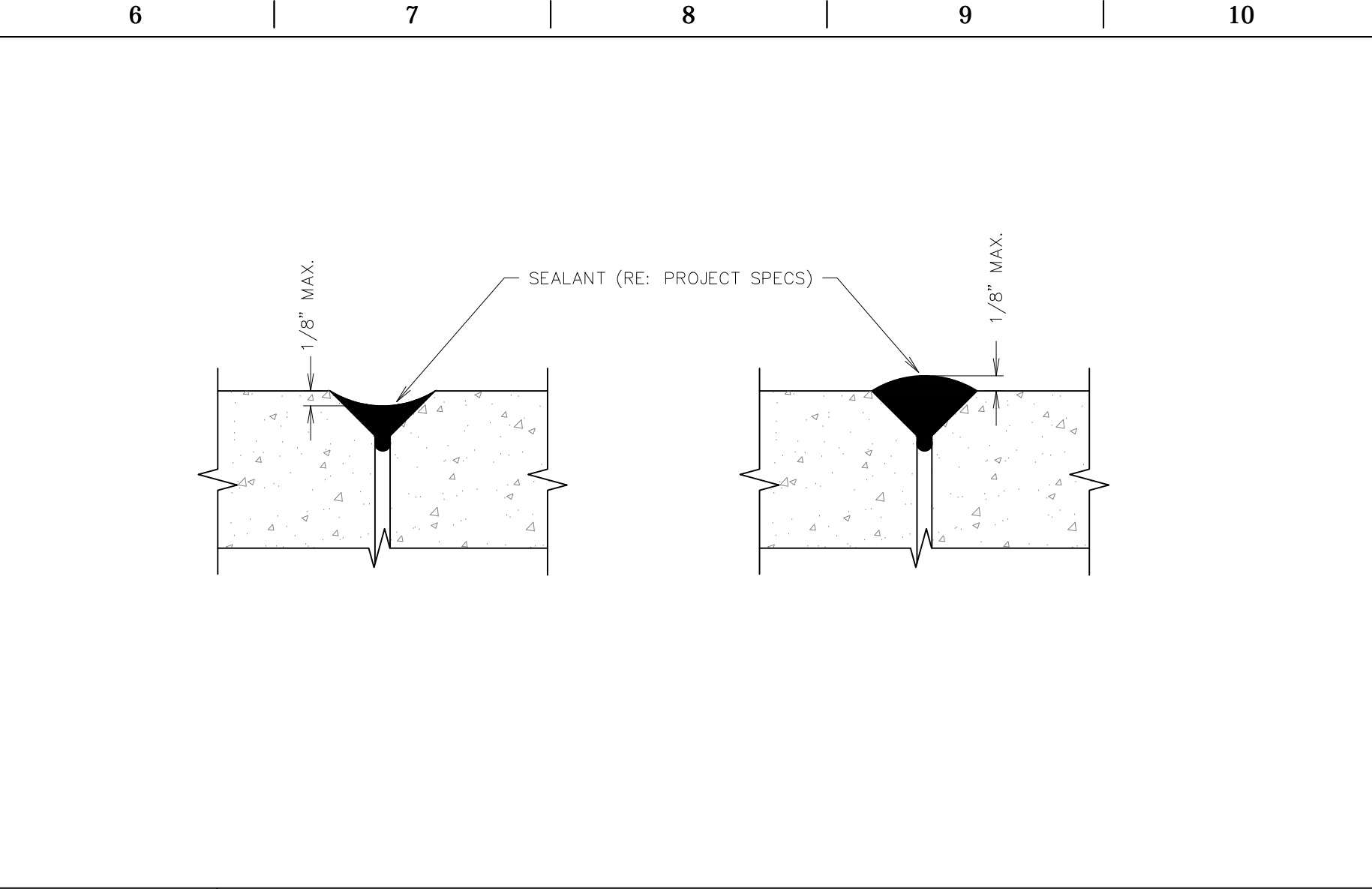
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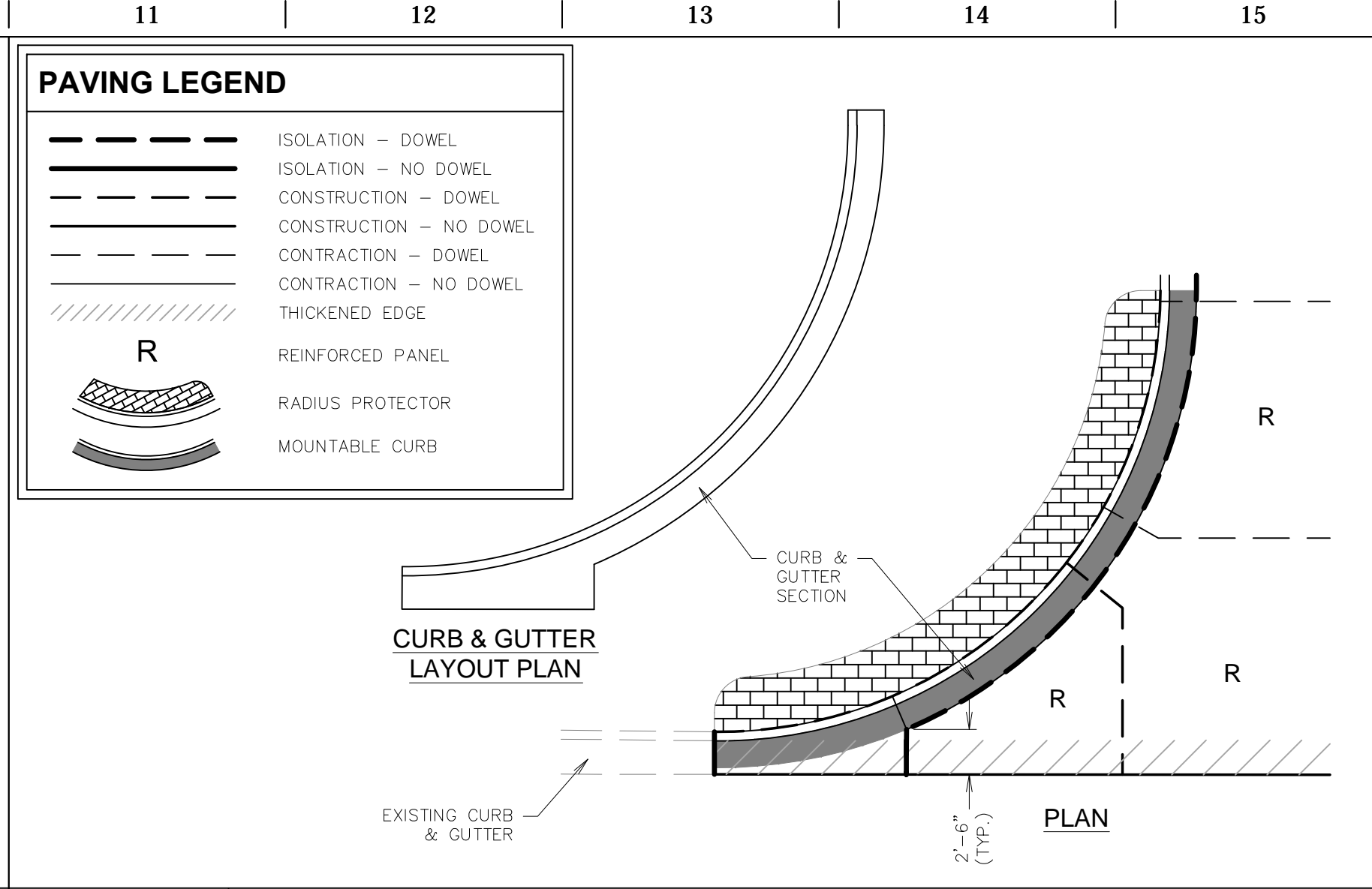
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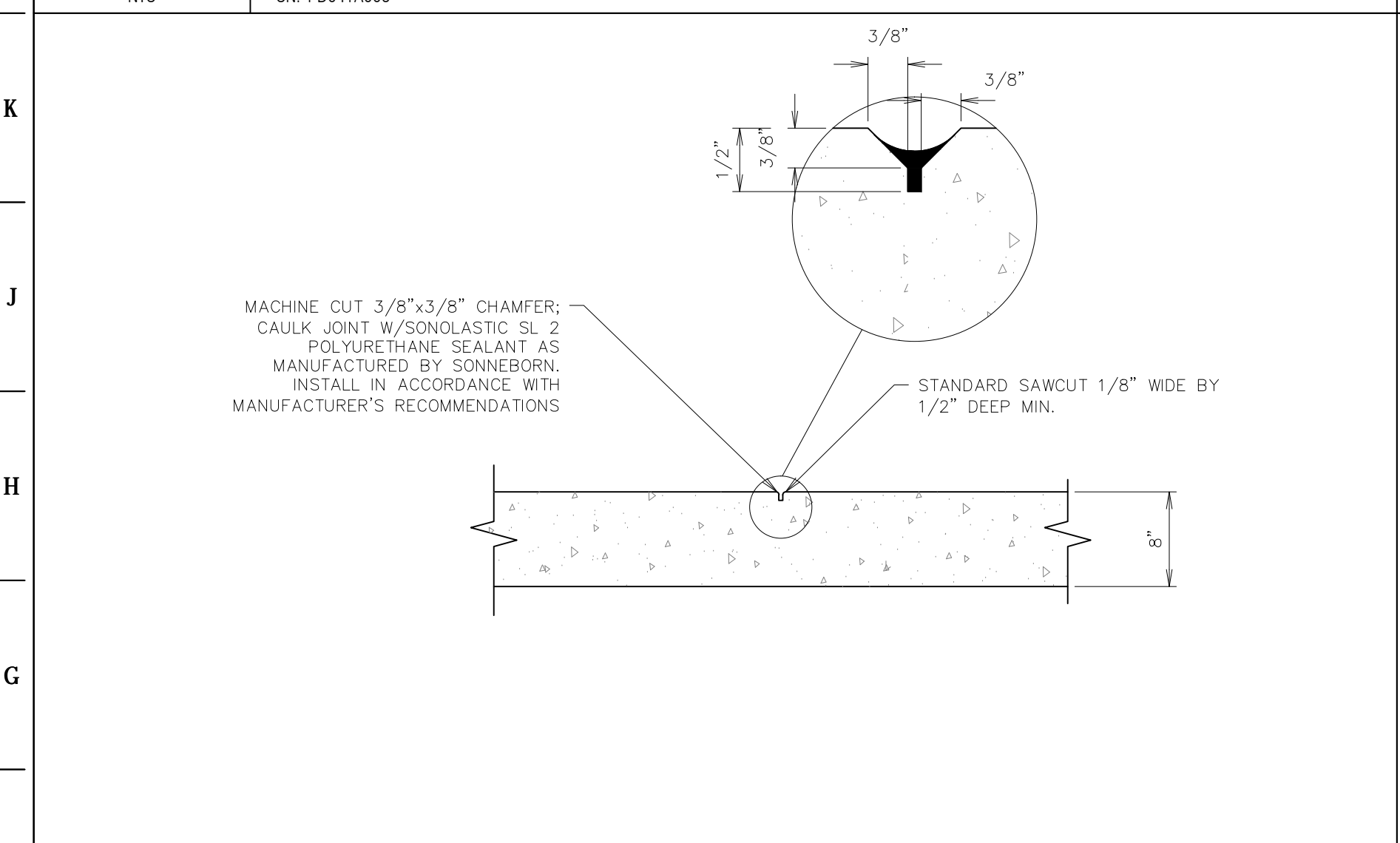
**L1** QT ACCENT CONCRETE STRIP JOINTING DETAIL  
NTS SN: PD041A003



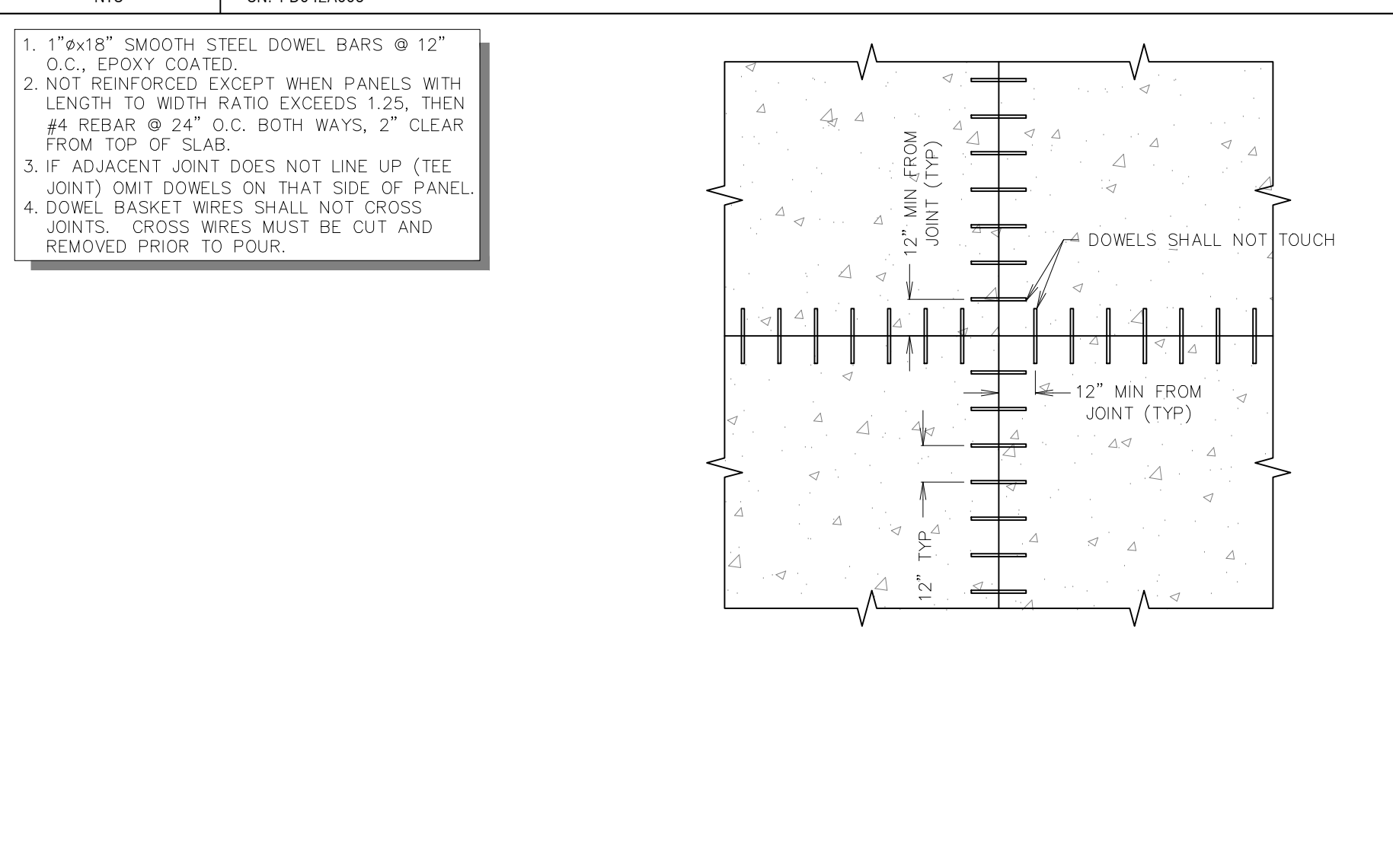
**L6** PAVING JOINT - SEALANT TOLERANCE DETAIL  
NTS SN: PD042A003



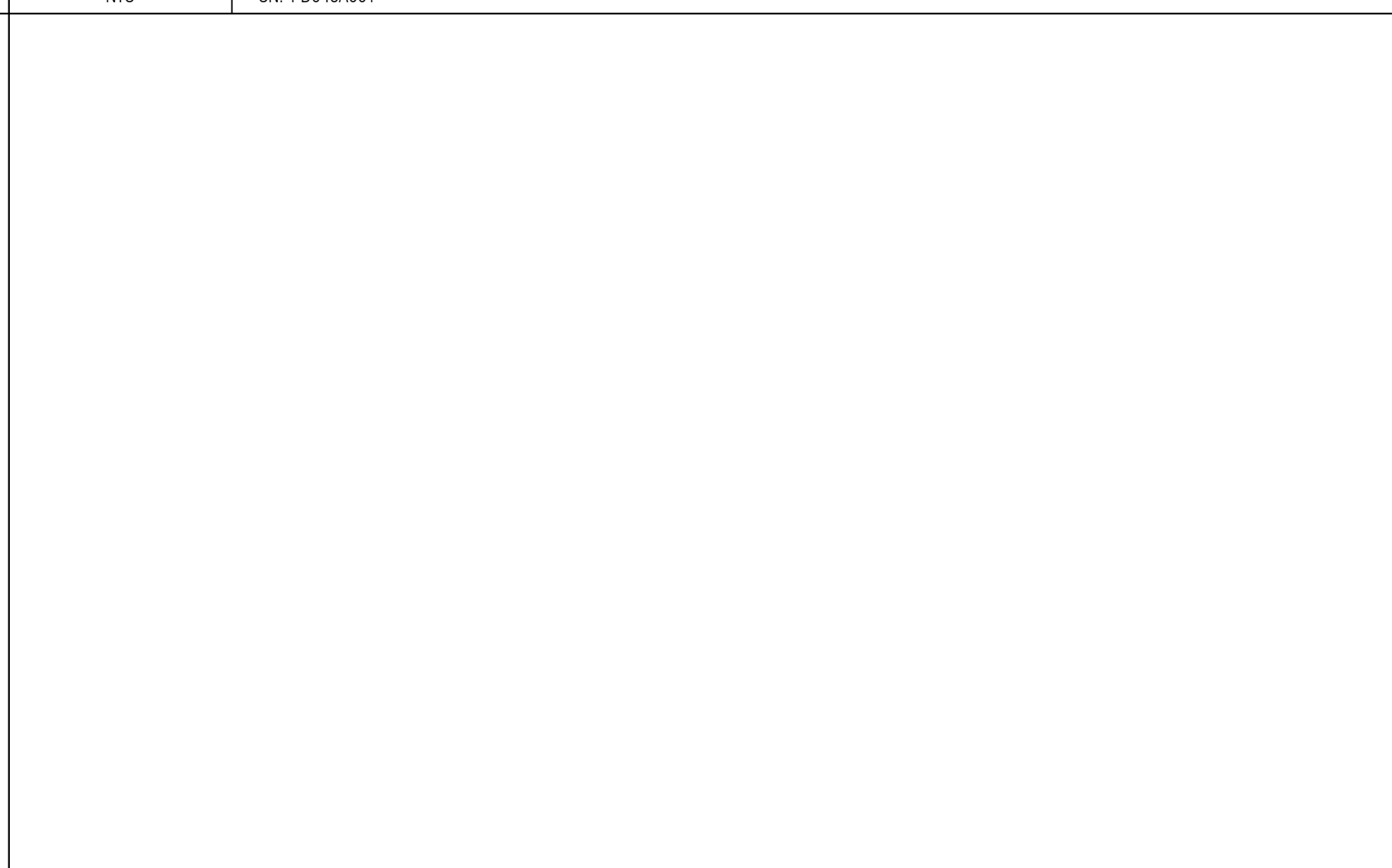
**L11** CURB DETAIL - DRIVE ENTRANCE  
NTS SN: PD043A001



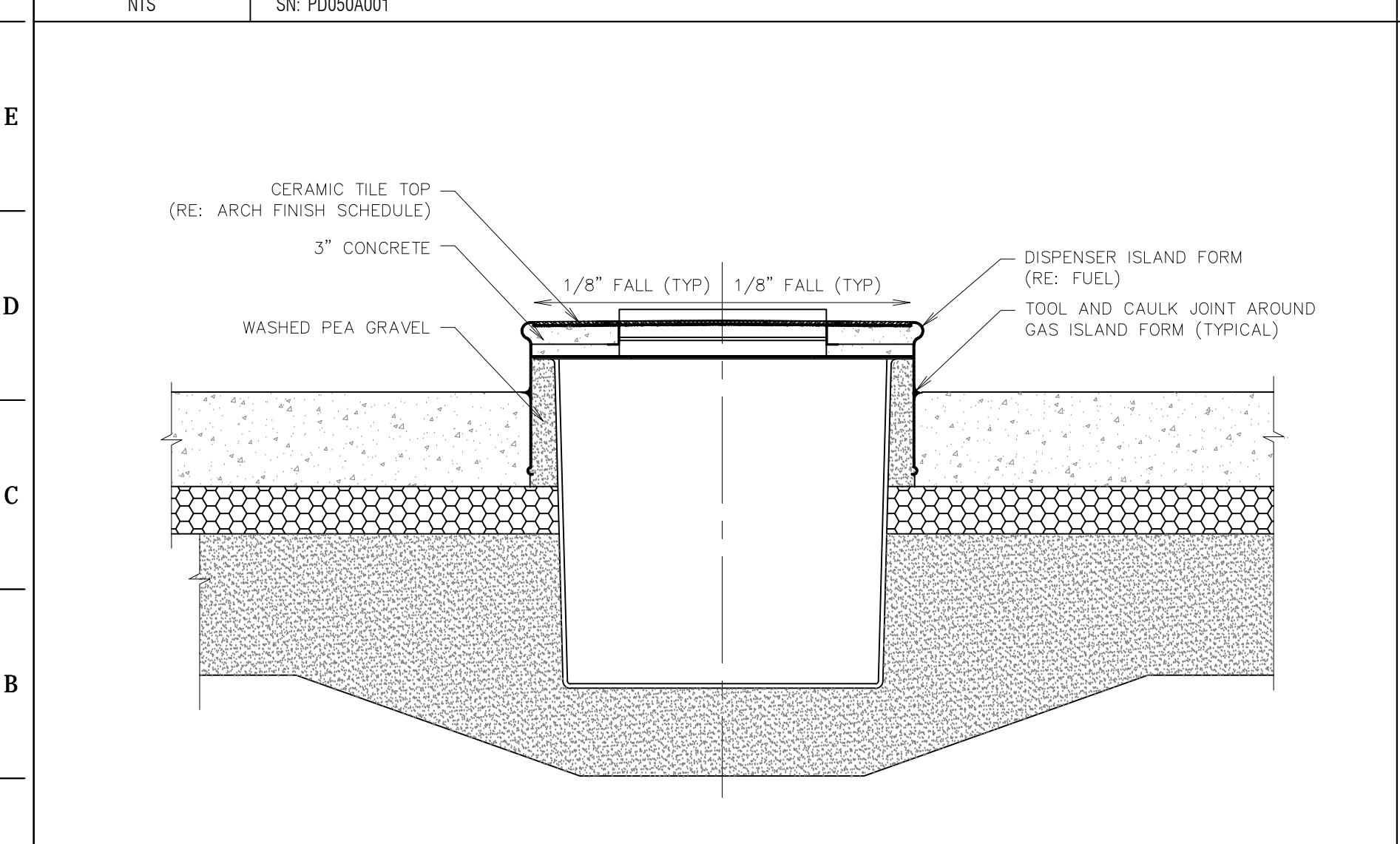
**F1** DELINEATED CROSSWALK JOINTING SECTION DETAIL  
NTS SN: PD050A001



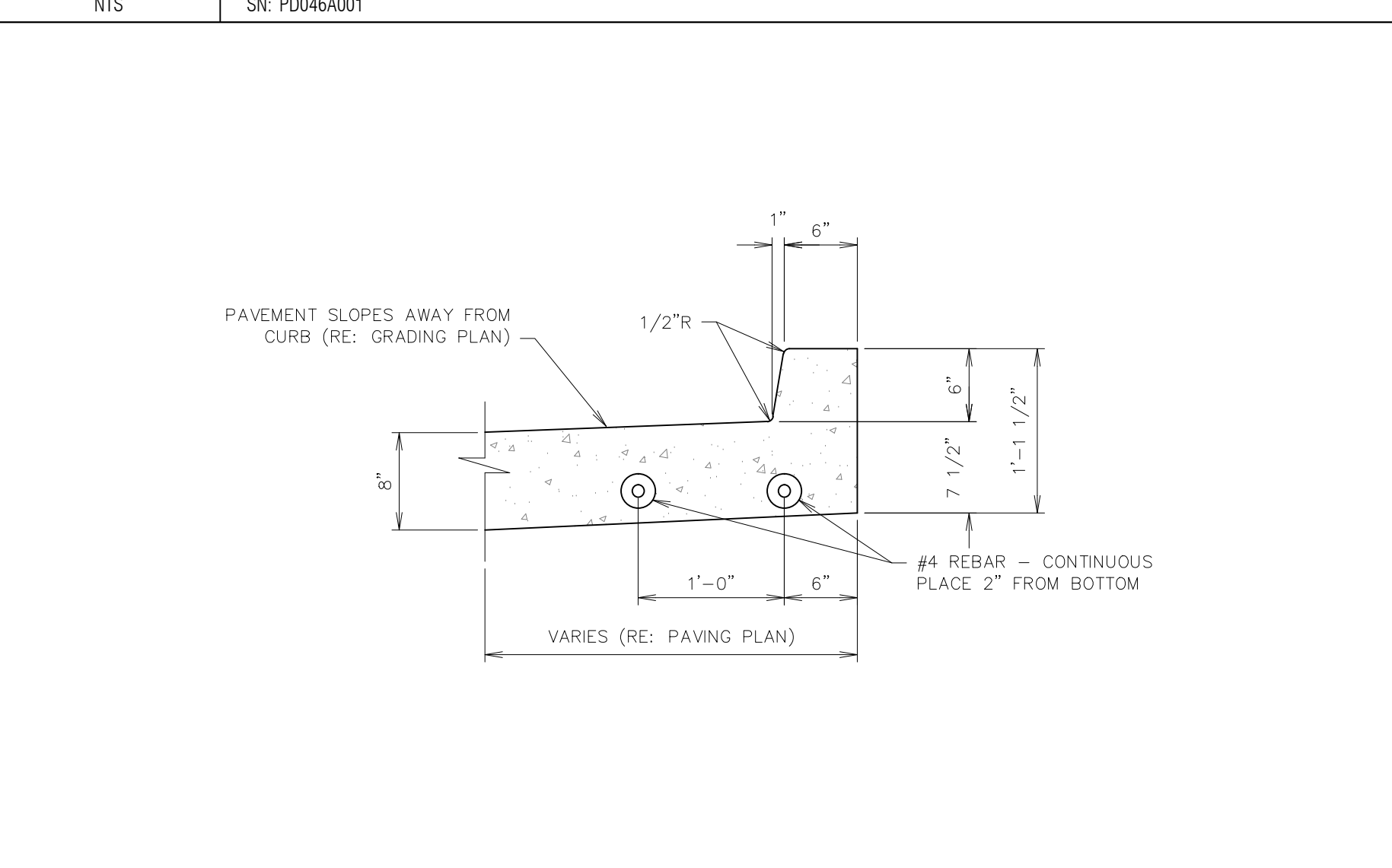
**F6** DOWEL - JOINT SEPARATION DETAIL  
NTS SN: PD046A001



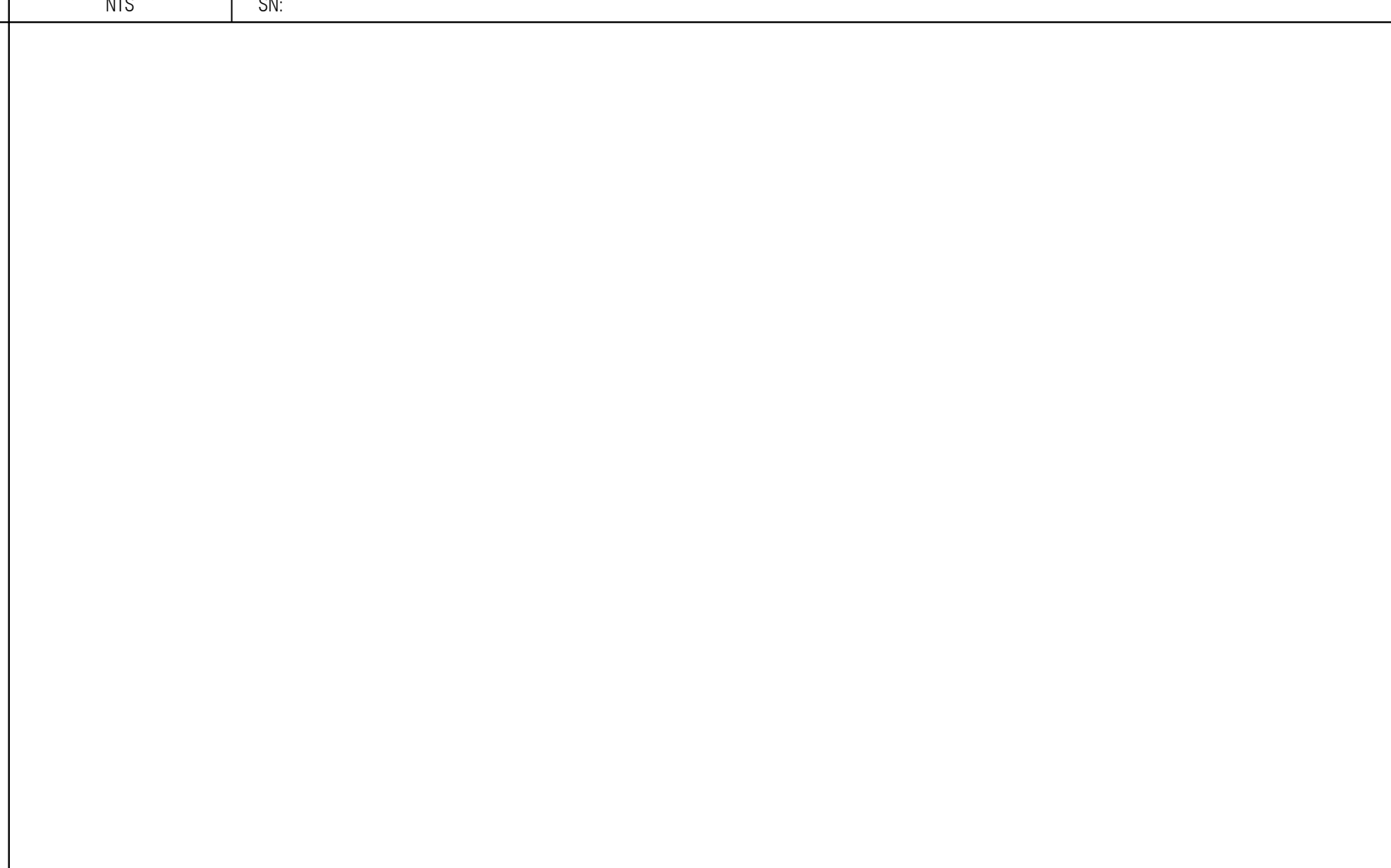
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NTS SN:



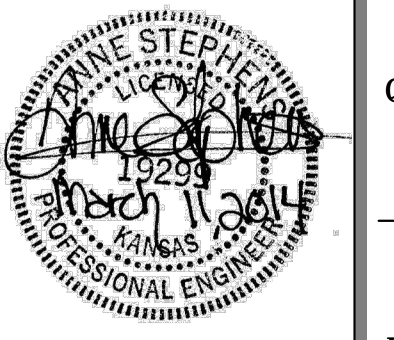
**A1** DISPENSER ISLAND FORM - CONCRETE FILL & JOINTING DETAIL  
NTS SN: PD047A003



**A6** CURB DETAIL - MONOLITHIC @ TANK BUMP OUT  
NTS SN: PD048A001

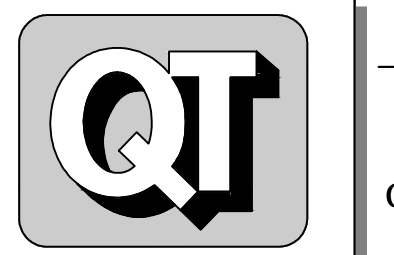


**A11** NOT USED  
NTS SN:



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REVIEWED BY: MB

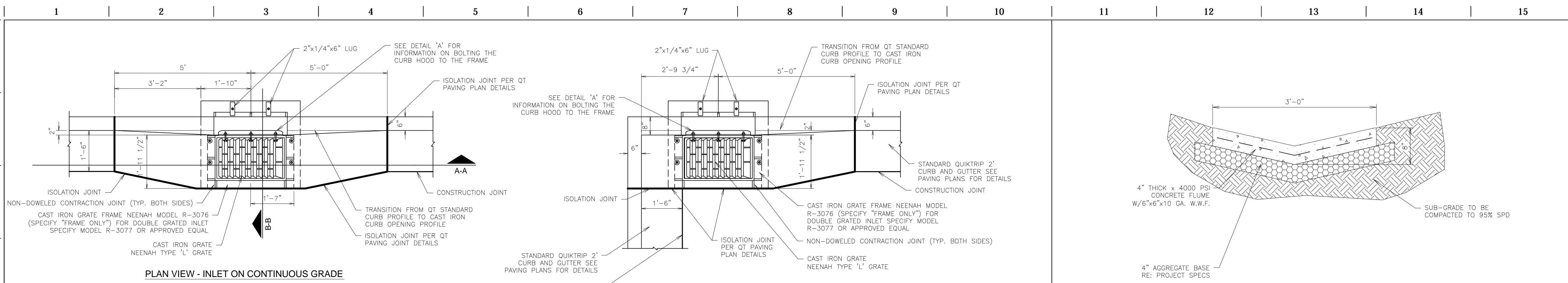
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1	9/6/13	QT COMMENT REVISIONS
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6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

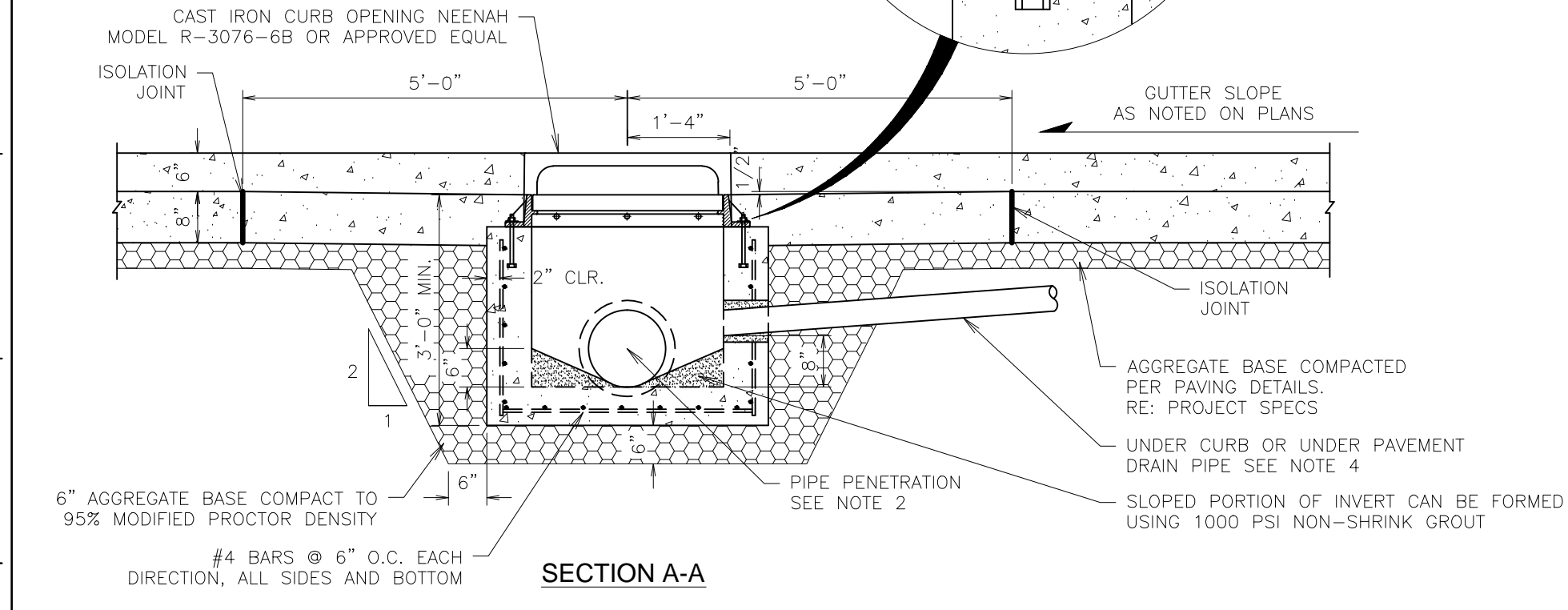
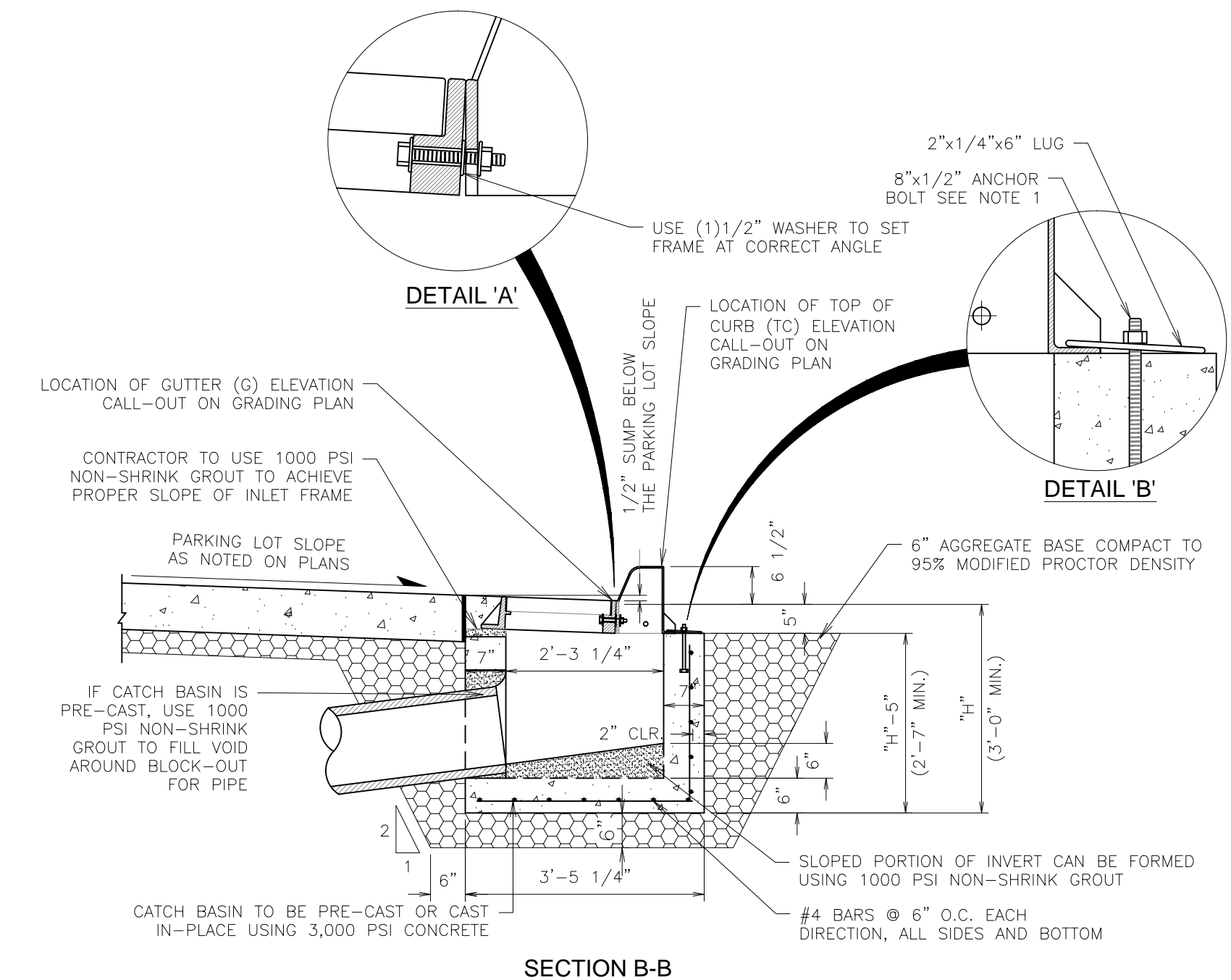
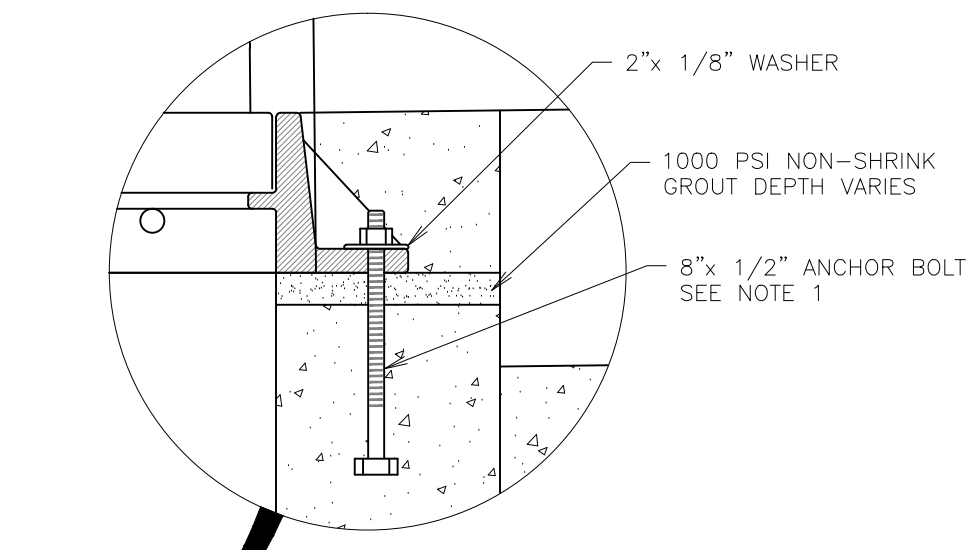
SHEET TITLE:  
PAVING DETAIL SHEET 4

SHEET NUMBER:  
**C523**

FILE LOCATION: W:\Projects\13.W008 QuikTrip No. 0313R Construction Plans\CAD Files\Dwg & Pdf Submittals\DETAILS SHEETS\DETAILS Drainage C540-C541.dwg TAB NAME: Drainage Detail Sheet 540 USER: ALOpez SAVED: 11/26/2013 4:55 PM PLOTTED: 3/12/2014 8:23 AM



1. CONTRACTOR CAN SUBSTITUTE HILTI DRILLED BOLT SYSTEM FOR ANCHOR BOLT SET IN CONCRETE FOR EASE OF CONSTRUCTION
2. 12" PIPE IS THE MINIMUM PIPE SIZE ACCEPTED BY QUIKTRIP. PIPE TYPE MAY VARY BY REGION AND MUNICIPALITY. IF HYDRAULICS REQUIRES A LARGER PIPE, DEPTH OF THE INLET MAY NEED TO BE INCREASED. AT NO TIME SHALL THE CLEARANCE FROM THE TOP OF PIPE TO THE BOTTOM OF INLET BE LESS THAN 6".
3. AT TIMES MORE THAN ONE PIPE MAY PENETRATE INTO A CATCH BASIN. WHEN THIS OCCURS THE OUTLET PIPE IS TO BE SET AT THE INVERT ELEVATION AND ALL OTHER PIPES ARE TO BE SET A MINIMUM OF 2" HIGHER. AT NO TIME SHALL THE CLEARANCE FROM THE TOP OF THE HIGHEST/LARGEST PIPE TO THE BOTTOM OF THE FRAME BE LESS THAN 6".
4. UNDER CURB AND UNDER PAVEMENT DRAIN DETAILS ARE SHOWN ON "DRAINAGE AND UTILITY TRENCH DETAILS SHEETS" INCLUDED WITH THIS SET OF PLANS. THIS DOES NOT APPLY TO THE ARIZONA DIVISION.



**L11** 3' CONCRETE FLUME SECTION

NTS SN: DD002A005

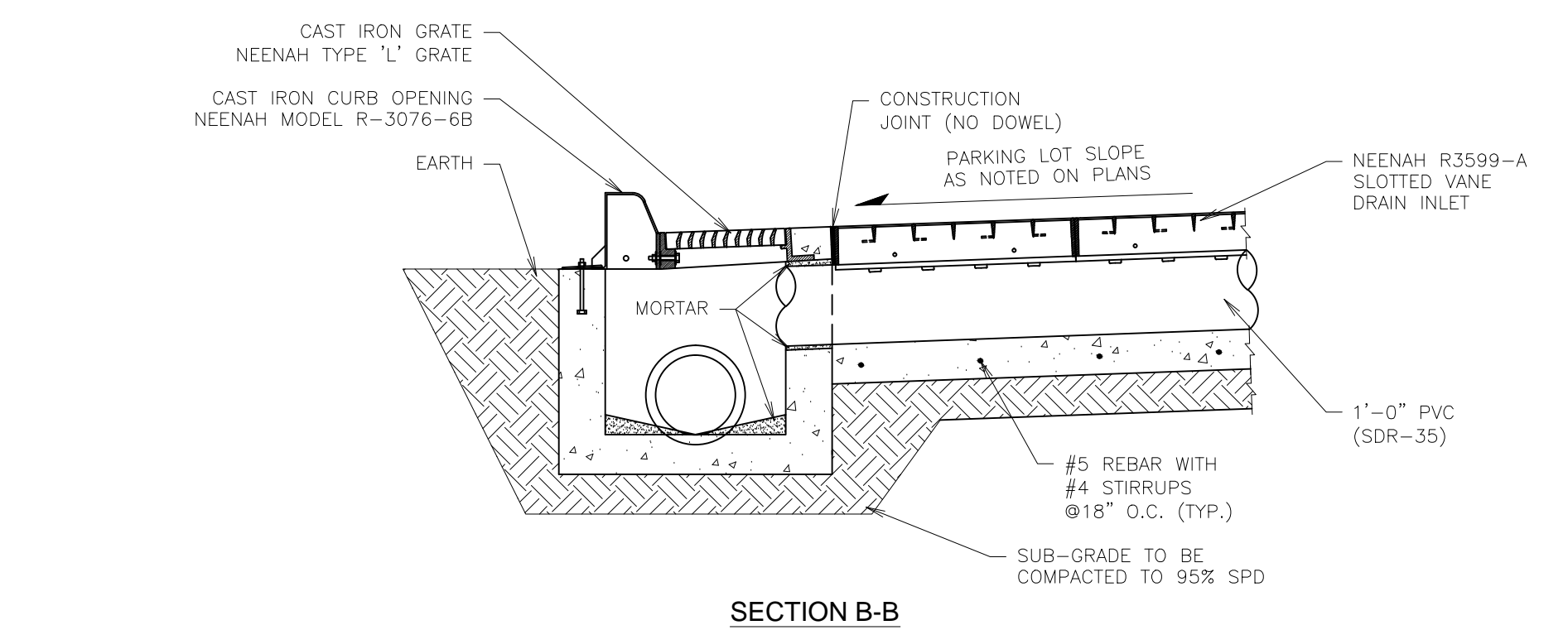
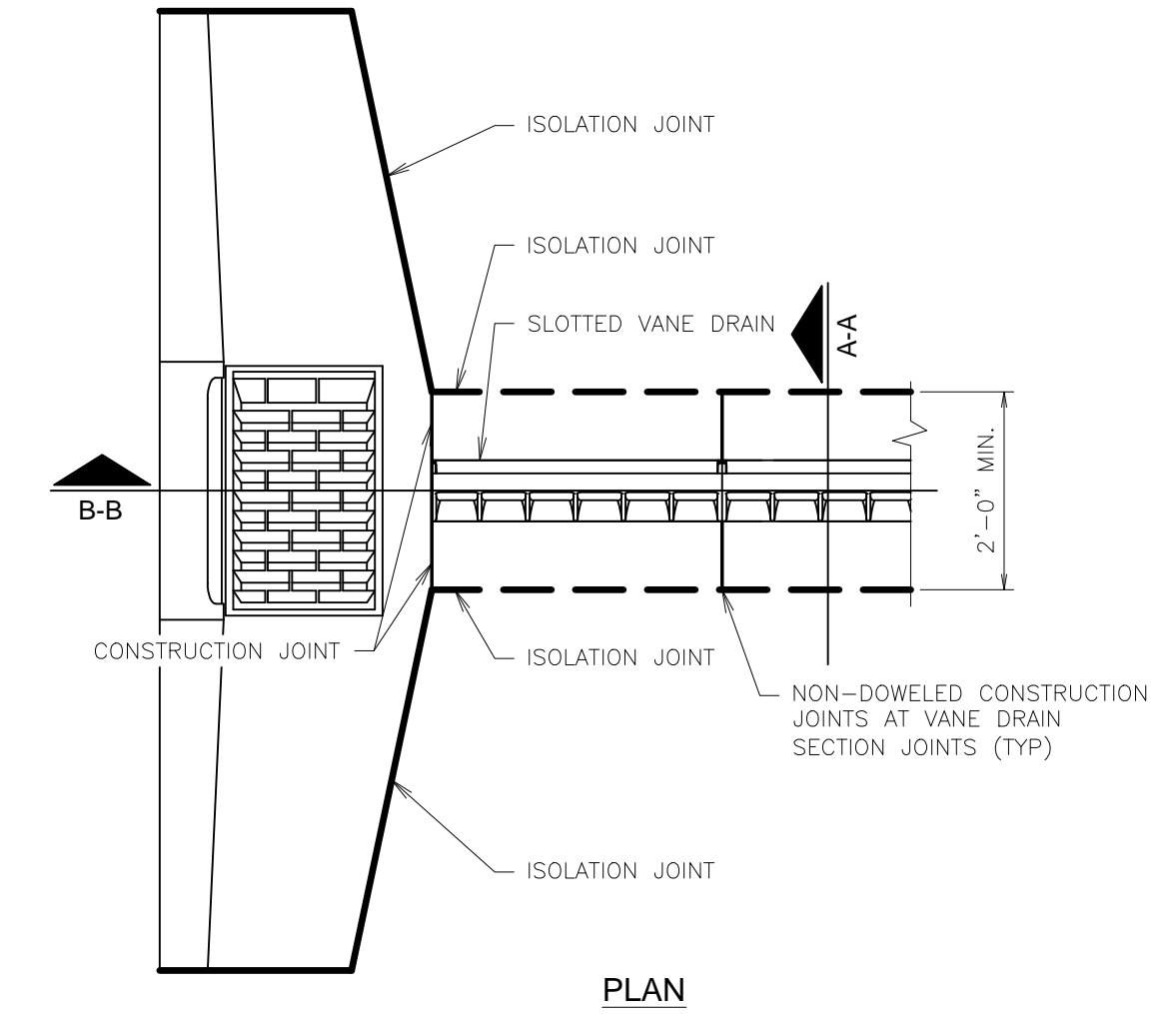
**F11** NOT USED

NTS SN:

**F1** CATCH BASIN INLET DETAIL (SINGLE)

NTS SN: DD001A008

STANDARD QT CATCH BASIN LOCATED AT LOW END OF STRIP VANE DRAIN (UNLESS NOTED OTHERWISE)

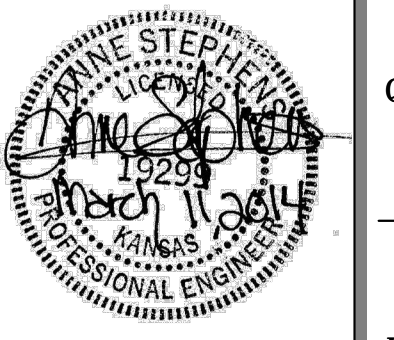


**A1** SLOTTED VANE DRAIN INSTALLATION @ CATCH BASIN DETAIL

NTS SN: DD004A004

**A11** NOT USED

NTS SN:

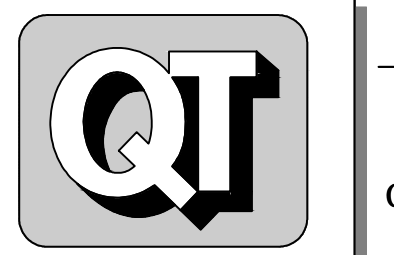


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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
Wichita, Sedgwick County, Kansas



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PROTOTYPE:	P-76 (8/01/13)
DIVISION:	WICHITA
VERSION:	001
DESIGNED BY:	AS
DRAWN BY:	AL
REVIEWED BY:	MB

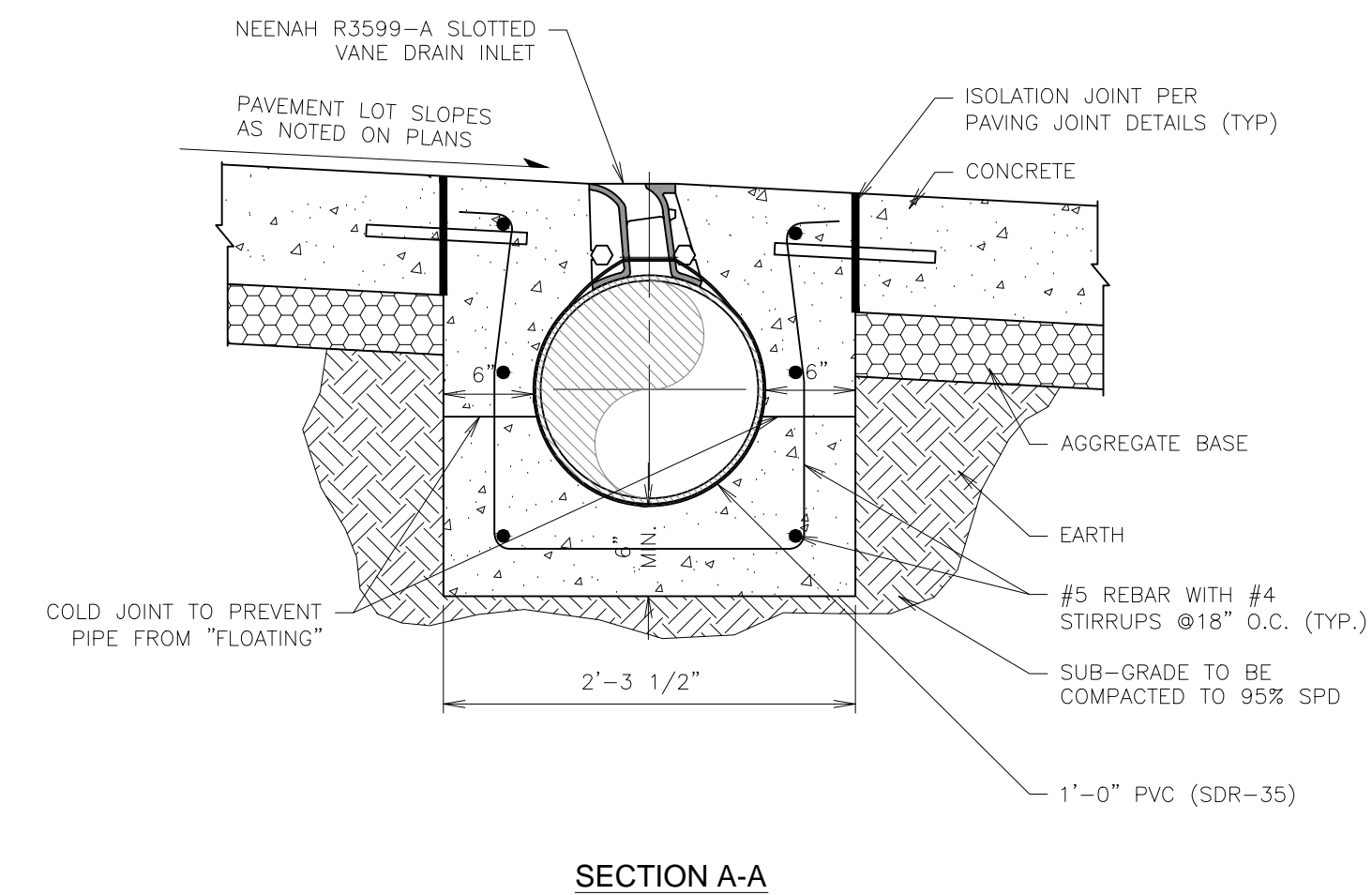
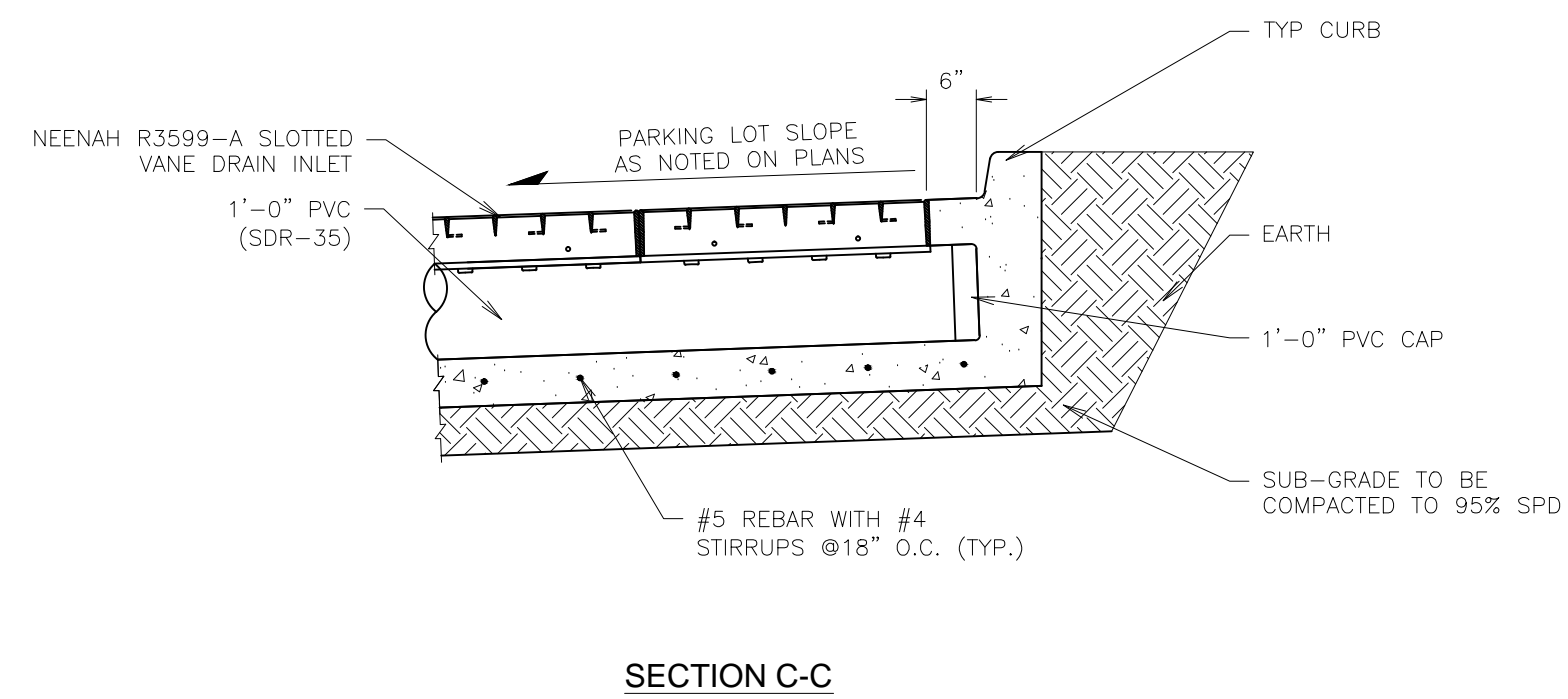
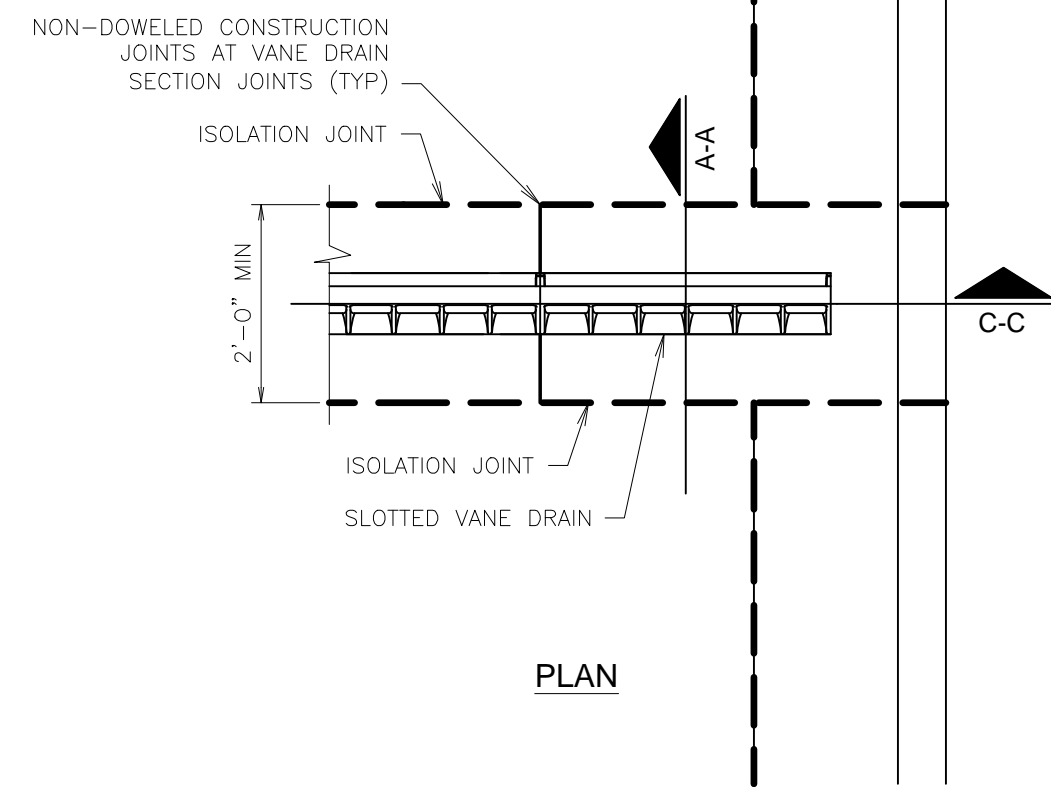
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1	9/6/13	QT COMMENT REVISIONS
2	10/27/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
DRAINAGE DETAILS

SHEET NUMBER:  
**C540**

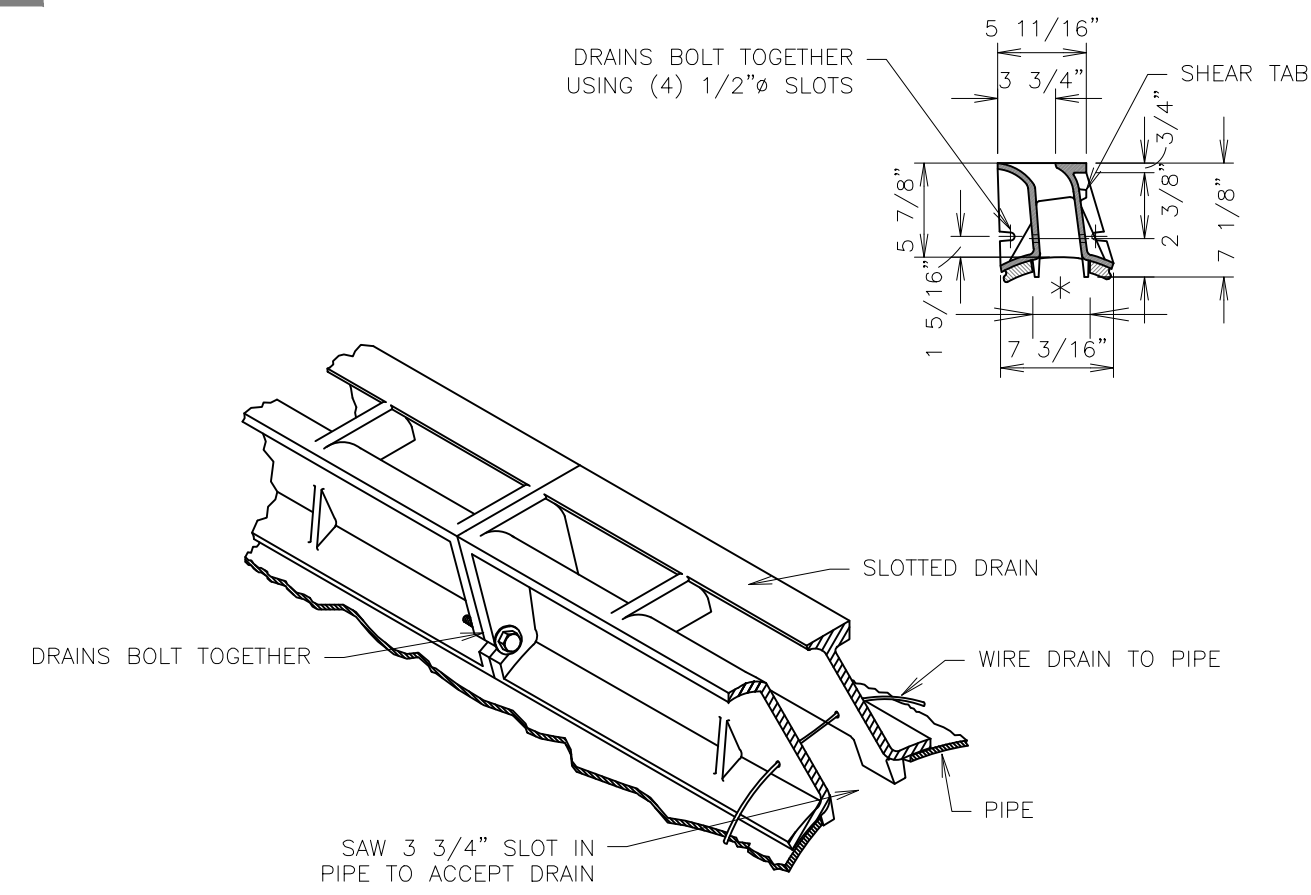
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**L1** SLOTTED VANE DRAIN INSTALLATION DETAIL

NTS SN: DD005A004

CUT 3 3/4" SLOT IN PIPE TO ACCEPT DRAIN



**F1** SLOTTED VANE DRAIN (ISOMETRIC VIEW)

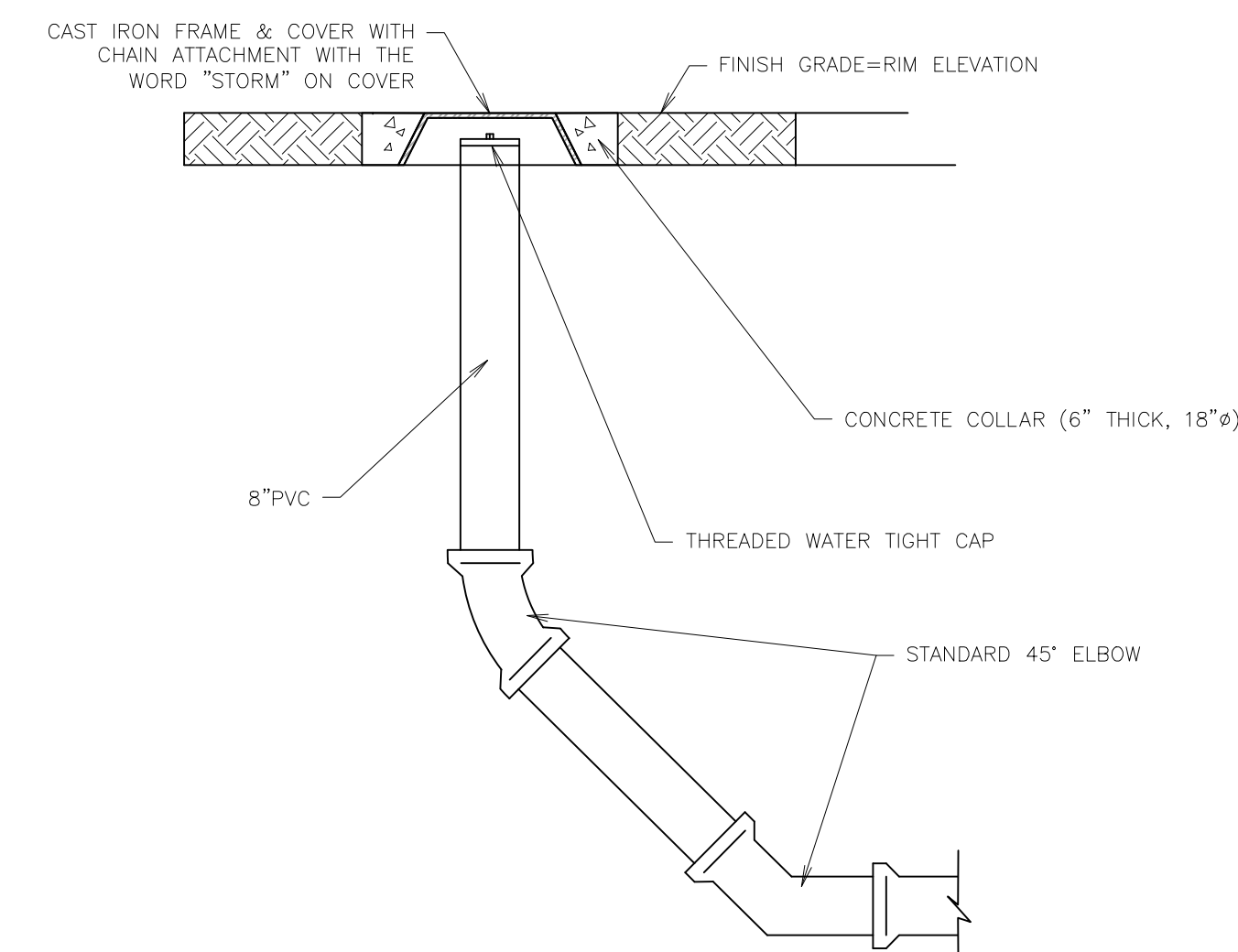
NTS SN: DD007A003

**F6** NOT USED

NTS SN:

**L11** SLOTTED VANE DRAIN INSTALLATION CROSS SECTION "A-A"

NTS SN: DD006A005



**F11** SD CLEANOUT

NTS SN: DD010A002

**A1** NOT USED

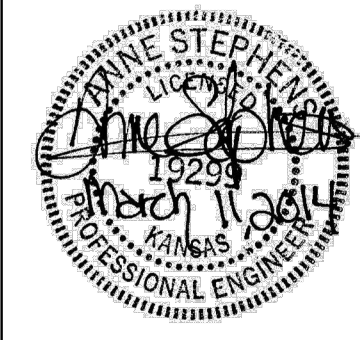
NTS SN:

**A6** NOT USED

NTS SN:

**A11** NOT USED

NTS SN:



PROJECT NO.: 13.W008

**Schwab Eaton**

8615 W. Frazier, Suite 2  
Wichita, Kansas  
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F. 316.722.4479

**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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PROTOTYPE: P-76 (8/01/13)
DIVISION: WICHITA
VERSION: 001
DESIGNED BY: AS
DRAWN BY: AL
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.1. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

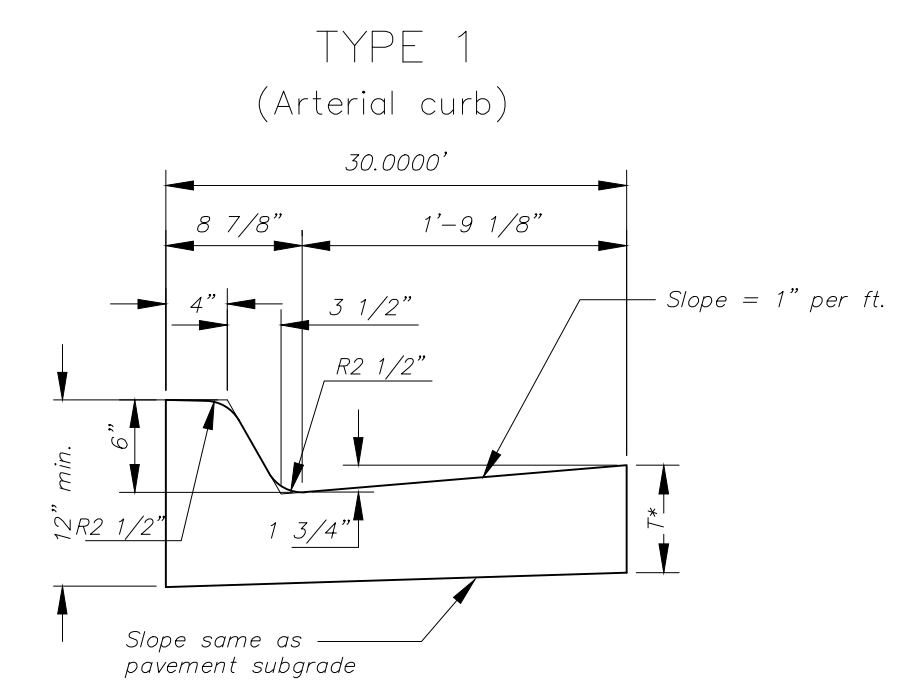
SHEET TITLE:  
DRAINAGE DETAILS

SHEET NUMBER:  
C541

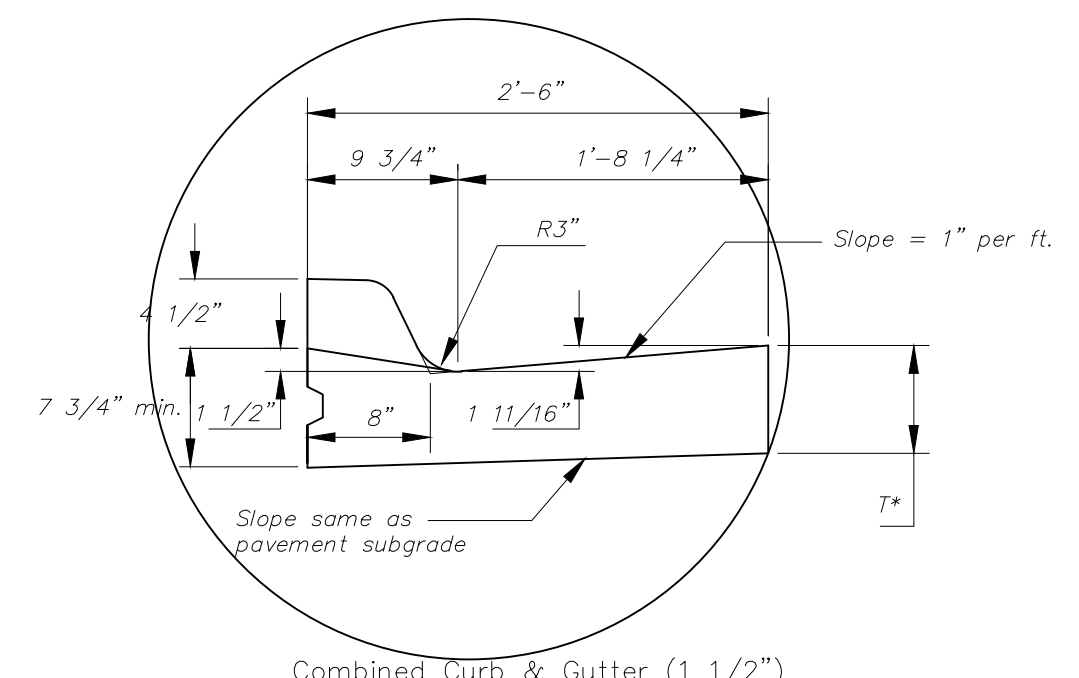
FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg & Pdf Submittals\DETAILS SHEETS\DETAILS Paving C570.dwg TAB NAME: Paving Detail Sheet USER: ALopez SAVED: 11/26/2013 4:43 PM PLOTTED: 3/12/2014 8:24 AM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Q  
P  
N  
M  
L  
K  
J  
H  
G  
F  
E  
D  
C  
B  
A



Combined Curb & Gutter (6")



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 Pls, 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.

<b>L1</b>	<b>CITY STANDARD "TYPE 1" CURB &amp; GUTTER DETAIL</b>
NTS	SN: N/A

<b>L11</b>	<b>NOT USED</b>
NTS	SN:

<b>F1</b>	<b>NOT USED</b>
NTS	SN:

<b>F6</b>	<b>NOT USED</b>
NTS	SN:

<b>F11</b>	<b>NOT USED</b>
NTS	SN:

<b>A1</b>	<b>NOT USED</b>
NTS	SN:

<b>A6</b>	<b>NOT USED</b>
NTS	SN:

<b>A11</b>	<b>NOT USED</b>
NTS	SN:

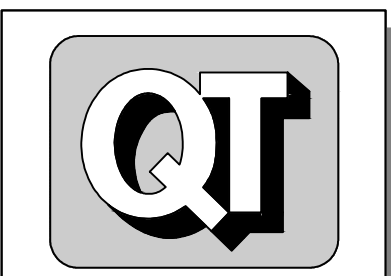


PROJECT NO.: 13.W008

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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
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REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

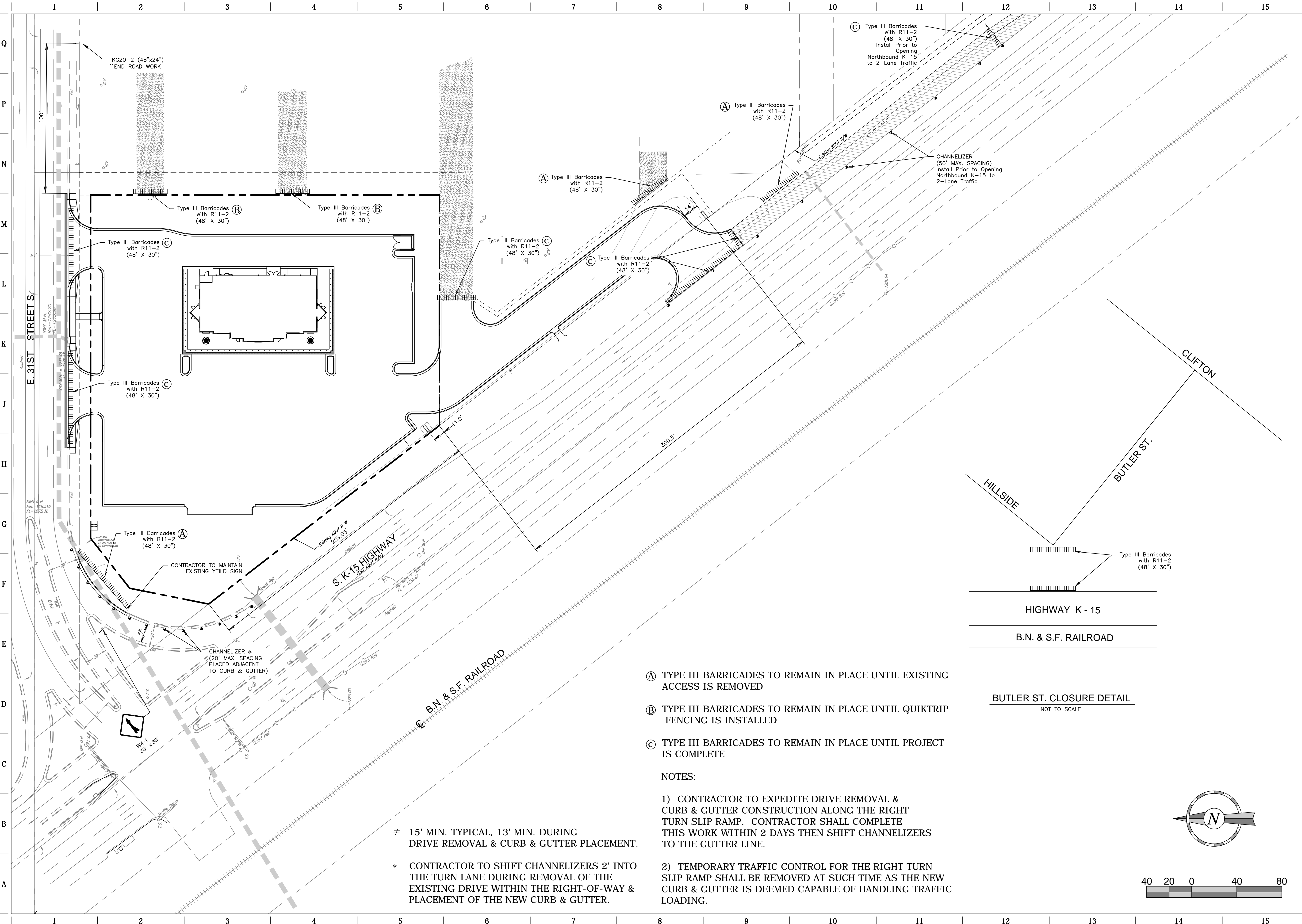
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
CITY OF WICHITA DETAILS

SHEET NUMBER:  
**C570**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\03-0313 Civil.dwg TAB NAME: Site Traffic Control USER: alopez SAVED: 3/11/2014 3:42 PM PLOTTED: 3/12/2014 8:31 AM



PROJECT NO.: 13.W008

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**QuikTrip No. 0313R**  
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PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	10/2/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/11/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT.1, SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
SITE TRAFFIC CONTROL PLAN

SHEET NUMBER:  
**C700**

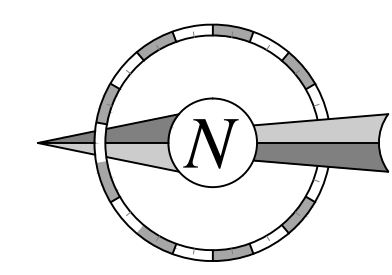
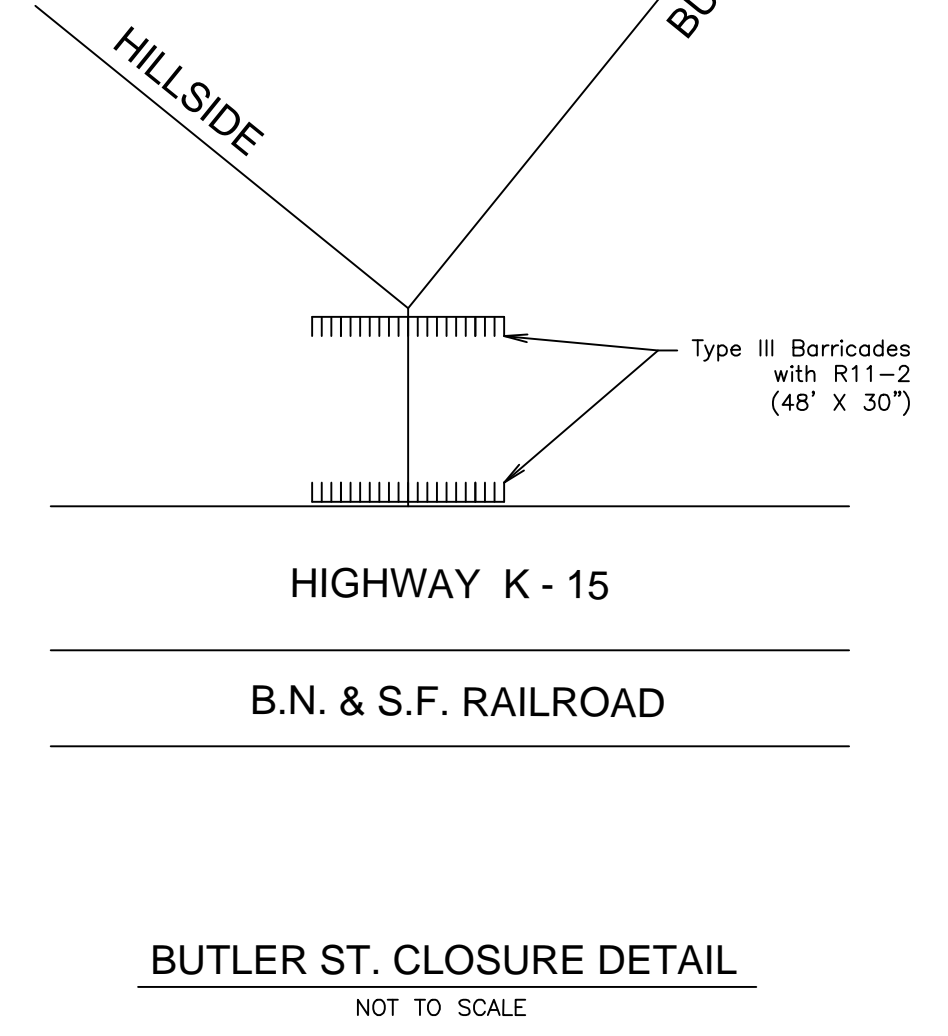
- Ⓐ TYPE III BARRICADES TO REMAIN IN PLACE UNTIL EXISTING ACCESS IS REMOVED
- Ⓑ TYPE III BARRICADES TO REMAIN IN PLACE UNTIL QUIKTRIP FENCING IS INSTALLED
- Ⓒ TYPE III BARRICADES TO REMAIN IN PLACE UNTIL PROJECT IS COMPLETE

NOTES:

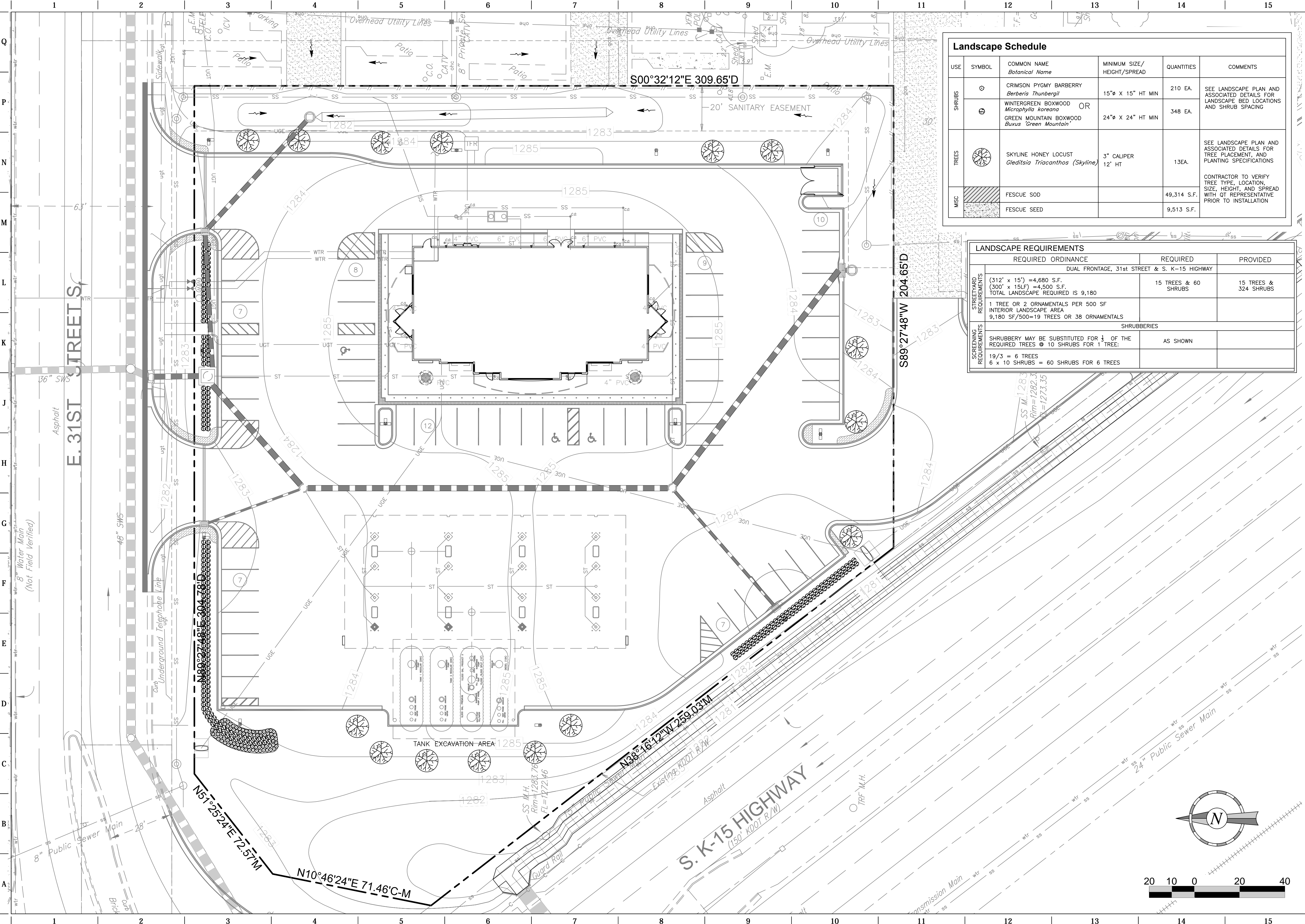
- 1) CONTRACTOR TO EXPEDITE DRIVE REMOVAL & CURB & GUTTER CONSTRUCTION ALONG THE RIGHT TURN SLIP RAMP. CONTRACTOR SHALL COMPLETE THIS WORK WITHIN 2 DAYS THEN SHIFT CHANNELIZERS TO THE GUTTER LINE.
- 2) TEMPORARY TRAFFIC CONTROL FOR THE RIGHT TURN SLIP RAMP SHALL BE REMOVED AT SUCH TIME AS THE NEW CURB & GUTTER IS DEEMED CAPABLE OF HANDLING TRAFFIC LOADING.

≠ 15' MIN. TYPICAL, 13' MIN. DURING DRIVE REMOVAL & CURB & GUTTER PLACEMENT.

\* CONTRACTOR TO SHIFT CHANNELIZERS 2' INTO THE TURN LANE DURING REMOVAL OF THE EXISTING DRIVE WITHIN THE RIGHT-OF-WAY & PLACEMENT OF THE NEW CURB & GUTTER.

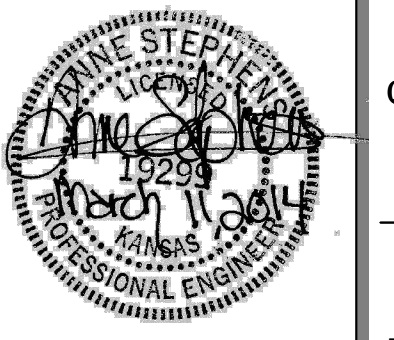


FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\DWG\03-0313 Civil.dwg TAB NAME: Landscape USER: rlopez SAVED: 3/11/2014 2:40 PM PLOTTED: 3/11/2014 3:37 PM



Landscape Schedule					
USE	SYMBOL	COMMON NAME Botanical Name	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES	COMMENTS
SHRUBS	⊙	CRIMSON PYGMY BARBERRY <i>Berberis thunbergii</i>	15"φ X 15" HT MIN	210 EA.	SEE LANDSCAPE PLAN AND ASSOCIATED DETAILS FOR LANDSCAPE BED LOCATIONS AND SHRUB SPACING
	⊙	WINTERGREEN BOXWOOD OR GREEN MOUNTAIN BOXWOOD <i>Buxus 'Green Mountain'</i>	24"φ X 24" HT MIN	348 EA.	
TREES	⊙	SKYLINE HONEY LOCUST <i>Gleditsia triacanthos (Skyline)</i>	3" CALIPER 12' HT	13EA.	SEE LANDSCAPE PLAN AND ASSOCIATED DETAILS FOR TREE PLACEMENT, AND PLANTING SPECIFICATIONS
MISC	▨	FESCUE SOD		49,314 S.F.	CONTRACTOR TO VERIFY TREE TYPE, LOCATION, SIZE, HEIGHT, AND SPREAD WITH QT REPRESENTATIVE PRIOR TO INSTALLATION
	▨	FESCUE SEED		9,513 S.F.	

LANDSCAPE REQUIREMENTS		
REQUIRED ORDINANCE	REQUIRED	PROVIDED
DUAL FRONTAGE, 31st STREET & S. K-15 HIGHWAY		
STREET YARD REQUIREMENTS (312' x 15') = 4,680 S.F. (300' x 15LF) = 4,500 S.F. TOTAL LANDSCAPE REQUIRED IS 9,180	15 TREES & 60 SHRUBS	15 TREES & 324 SHRUBS
SCREENING REQUIREMENTS 1 TREE OR 2 ORNAMENTALS PER 500 SF INTERIOR LANDSCAPE AREA 9,180 SF/500=19 TREES OR 38 ORNAMENTALS	SHRUBBERIES	
SHRUBBERY MAY BE SUBSTITUTED FOR 1/3 OF THE REQUIRED TREES @ 10 SHRUBS FOR 1 TREE: 19/3 = 6 TREES 6 x 10 SHRUBS = 60 SHRUBS FOR 6 TREES	AS SHOWN	

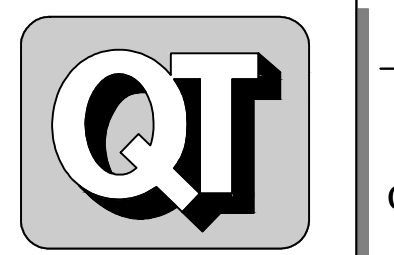


PROJECT NO.: 13.W008

**Schwab Eaton**

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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
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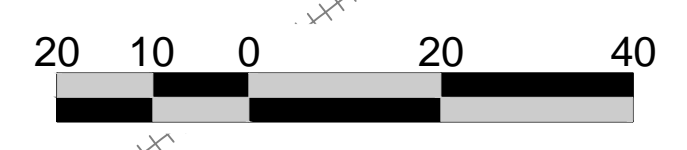
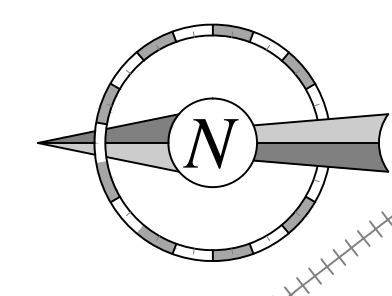
PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	10/2/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/11/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
LANDSCAPE PLAN

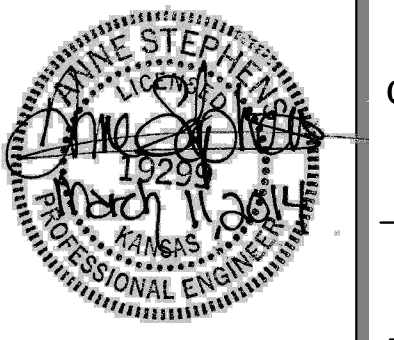
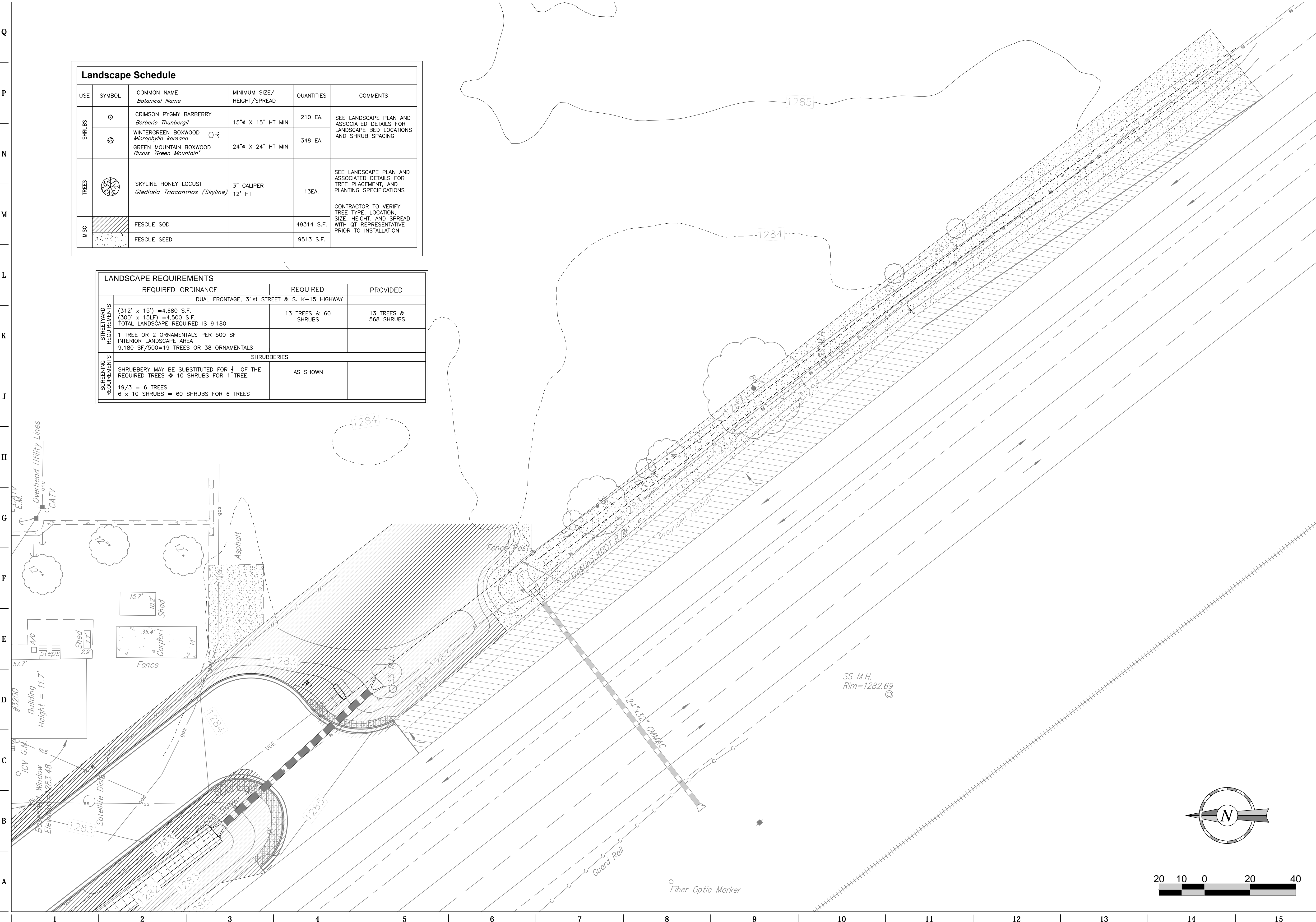
SHEET NUMBER:  
**L100**



FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\DWG\03-0313 Civil.dwg TAB NAME: Wing Drive Landscape USER: rlopez SAVED: 3/11/2014 2:40 PM PLOTTED: 3/11/2014 3:38 PM

Landscape Schedule					
USE	SYMBOL	COMMON NAME <i>Botanical Name</i>	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES	COMMENTS
SHRUBS	⊙	CRIMSON PYGMY BARBERRY <i>Berberis Thunbergii</i>	15"φ x 15" HT MIN	210 EA.	SEE LANDSCAPE PLAN AND ASSOCIATED DETAILS FOR LANDSCAPE BED LOCATIONS AND SHRUB SPACING
	⊙	WINTERGREEN BOXWOOD <i>Microphylla koreana</i> OR GREEN MOUNTAIN BOXWOOD <i>Buxus 'Green Mountain'</i>	24"φ x 24" HT MIN	348 EA.	
TREES	⊙	SKYLINE HONEY LOCUST <i>Gleditsia Triacanthos (Skyline)</i>	3" CALIPER 12' HT	13EA.	SEE LANDSCAPE PLAN AND ASSOCIATED DETAILS FOR TREE PLACEMENT, AND PLANTING SPECIFICATIONS  CONTRACTOR TO VERIFY TREE TYPE, LOCATION, SIZE, HEIGHT, AND SPREAD WITH QT REPRESENTATIVE PRIOR TO INSTALLATION
MISC	▨	FESCUE SOD		49314 S.F.	
	⊙	FESCUE SEED		9513 S.F.	

LANDSCAPE REQUIREMENTS		
REQUIRED ORDINANCE	REQUIRED	PROVIDED
DUAL FRONTAGE, 31st STREET & S. K-15 HIGHWAY		
STREETYARD REQUIREMENTS (312' x 15') = 4,680 S.F. (300' x 15LF) = 4,500 S.F. TOTAL LANDSCAPE REQUIRED IS 9,180	13 TREES & 60 SHRUBS	13 TREES & 568 SHRUBS
1 TREE OR 2 ORNAMENTALS PER 500 SF INTERIOR LANDSCAPE AREA 9,180 SF/500=19 TREES OR 38 ORNAMENTALS		
SHRUBBERIES		
SHRUBBERY MAY BE SUBSTITUTED FOR 1/3 OF THE REQUIRED TREES ⊙ 10 SHRUBS FOR 1 TREE:	AS SHOWN	
19/3 = 6 TREES 6 x 10 SHRUBS = 60 SHRUBS FOR 6 TREES		

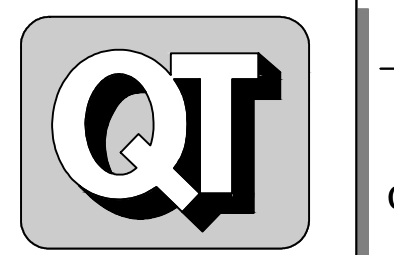


PROJECT NO.: 13.W008

**Schwab  
Eaton**

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p. 316.722.4472  
f. 316.722.4479

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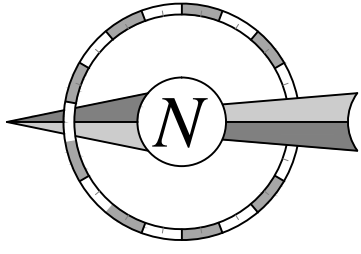
PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	1/9/13	QT COMMENT REVISIONS
2	1/20/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL FT. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
WING DRIVE  
LANDSCAPE PLAN

SHEET NUMBER:  
L101



IRRIGATION SCHEDULE		
SYMBOL	DESCRIPTION	MANUFACTURER
[C]	CONTROLLER	RAINBIRD ESP-LXME ( 28 STATION ) HUNTER FREEZE AND MINI CLIK
[■]	SPRAY (SIDE STIP)	RAINBIRD 1806-PRS
[●]	BUBBLERS(2)	RAINBIRD 1402 (TWO PER TREE)
[●]	ROTOR	HUNTER PGJ
[○]	SPRAY	RAINBIRD 1806-PRS
[⊗]	GATE VALVE	2" NIBCO T113-K
[⊕]	Y- STRAINER	2" WATTS "S" SERIES
[⊘]	DRIP CONTROL VALVE	RAINBIRD #PSIM30X075 W/ NETAFIM FILTER W/ NETAFIM FILTER # DF075-140 (W/ PRESSURE DEVISE)
[⊗]	REMOTE CONTROL VALVE	RAINBIRD PEB SERIES ROTOR ZONE VALVE TO HAVE PRESSURE DIAL
[⊘]	BACKFLOW ASSEMBLY	2" DOUBLE CHECK ASSEMBLY
[W]	WATER METER	2" METER
[▲]	QUICK COUPLER	RAINBIRD 33DRC
[—]	MAINLINE PIPING	2" SCHEDULE 40 PVC WITH TRACER WIRE
[---]	SLEEVE PIPING	SCHEDULE 40 PVC
[---]	LATERAL PIPING	SCHEDULE 40 PVC
[12]	STATION NUMBER	
[20]	VALVE SIZE	GPM (APPROX.)
[■]	NETAFIM DRIP IRRIGATION	TECHLINE-CV-09-12

\*\*\* QUANTITIES IN LEGEND ARE ONLY FOR ESTIMATING PURPOSES

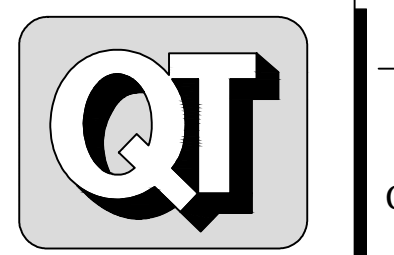
- SPECIAL NOTES:
- SOME IRRIGATION SYMBOLS ARE SHOWN DIAGRAMMATICALLY DUE TO THE SIZE OF THE GRAPHIC SYMBOL AT 30 SCALE.
  - ALL VALVE AND CONTROL BOXES MUST BE A MINIMUM OF 3 FEET BEHIND FACE OF CURB.
  - ALL VALVE AND CONTROL BOXES MUST BE A MINIMUM OF 10 FEET BEYOND THE END OF CURB RADIUS POINT.
  - ALL IRRIGATION BOXES MUST BE AT GRADE OR SLIGHTLY ABOVE.



DATE: 11-15-13 SIGNED  
SIGNATURE DATE: For Permit Only

TID INC.  
5646 MILTON STREET  
SUITE 111  
DALLAS, TX 75206  
O: 214-660-9399  
F: 214-722-0237

**QuikTrip No. 0313R**  
K-15 AND 31ST STREET SOUTH  
WICHITA, KANSAS



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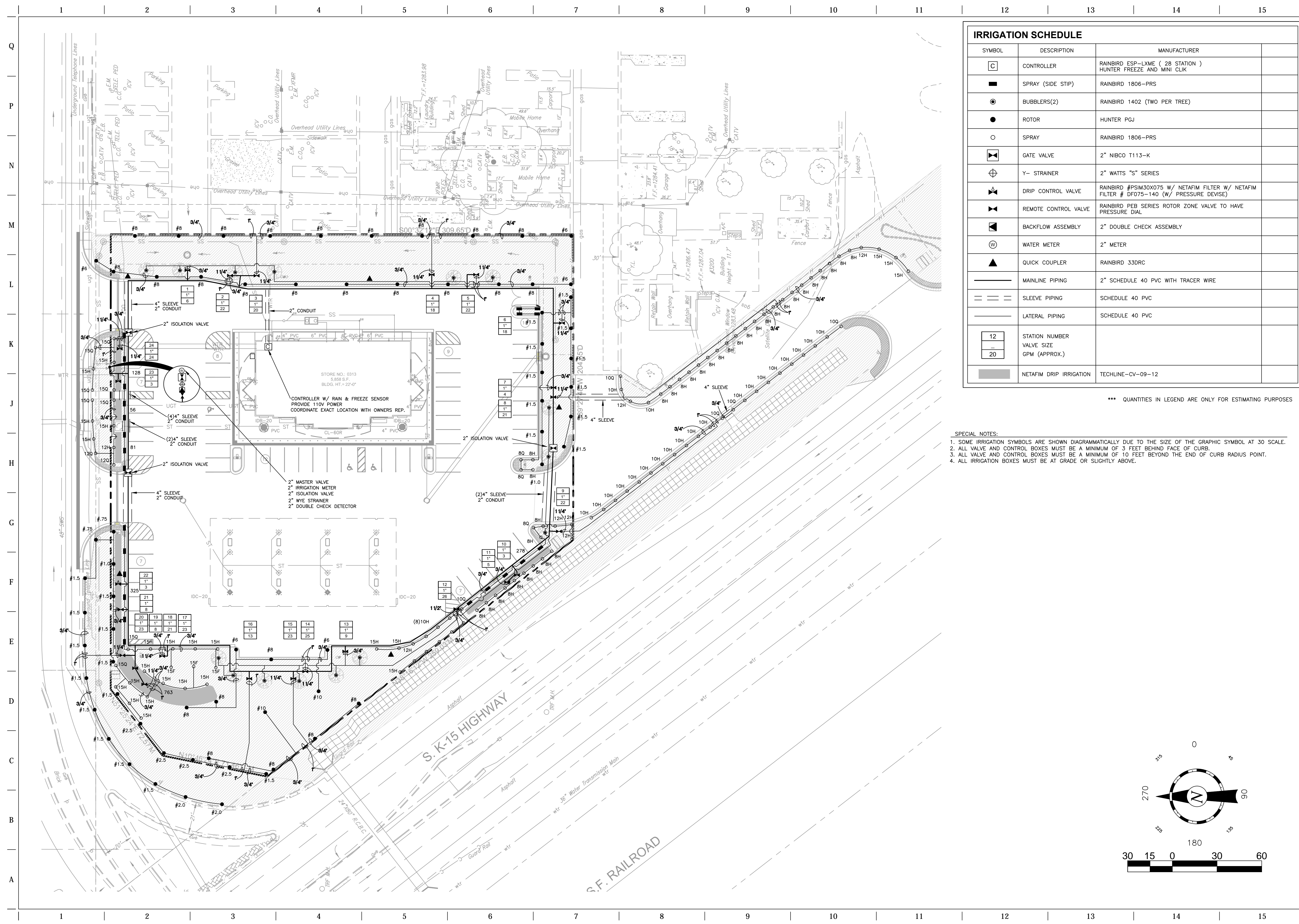
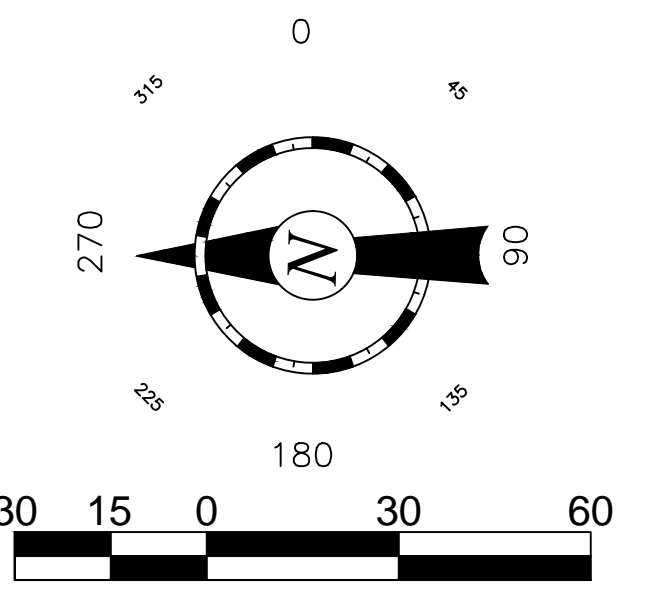
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DIVISION: KANSAS CITY  
VERSION: 001  
DESIGNED BY: SEH  
DRAWN BY: SEH  
REVIEWED BY: TID

REV	DATE	DESCRIPTION
1	11/21/13	OWNER'S COMMENTS

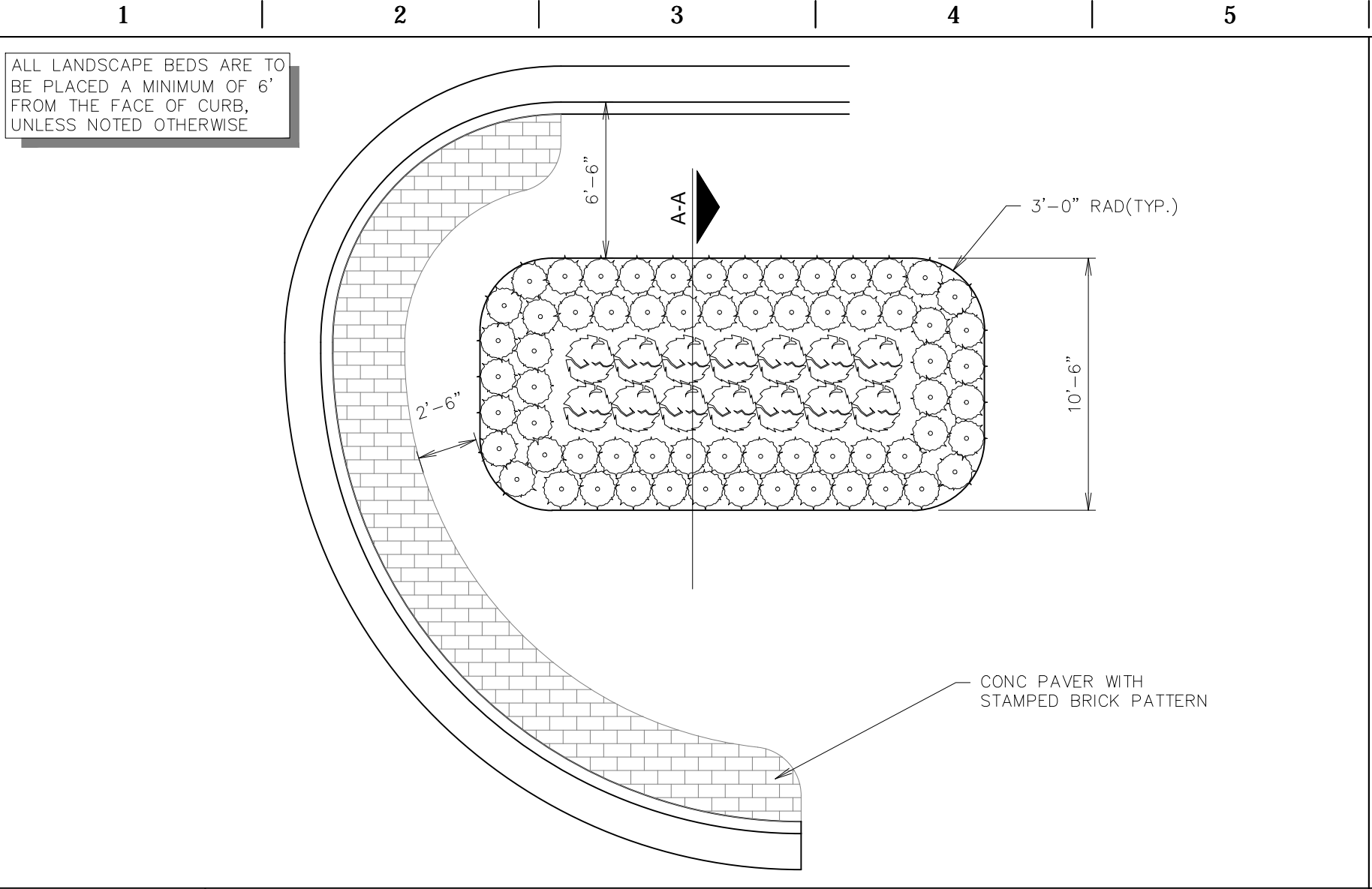
SHEET TITLE:  
IRRIGATION PLAN

SHEET NUMBER:  
**L110**

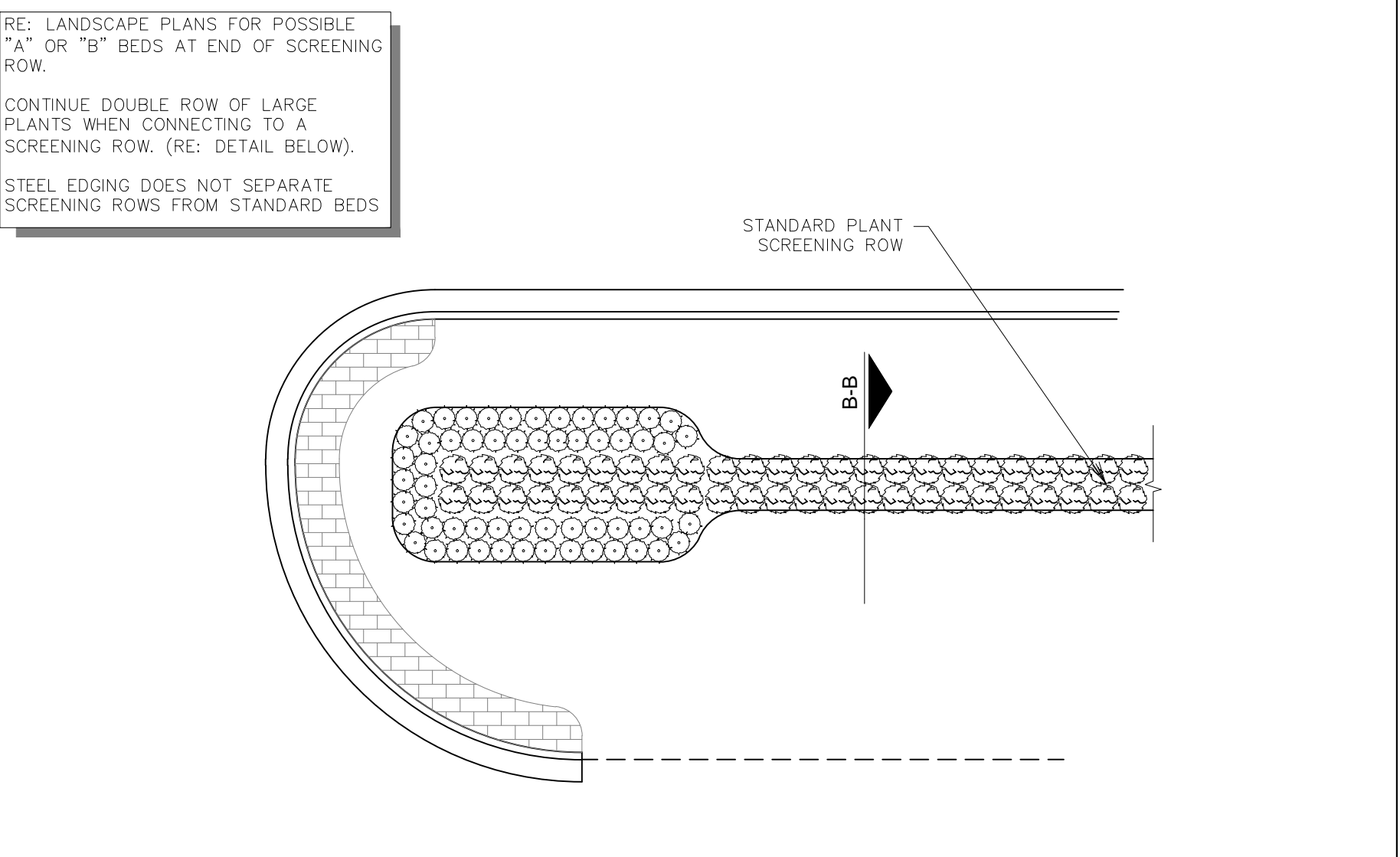
ORIGINAL ISSUE DATE: 11/18/2012



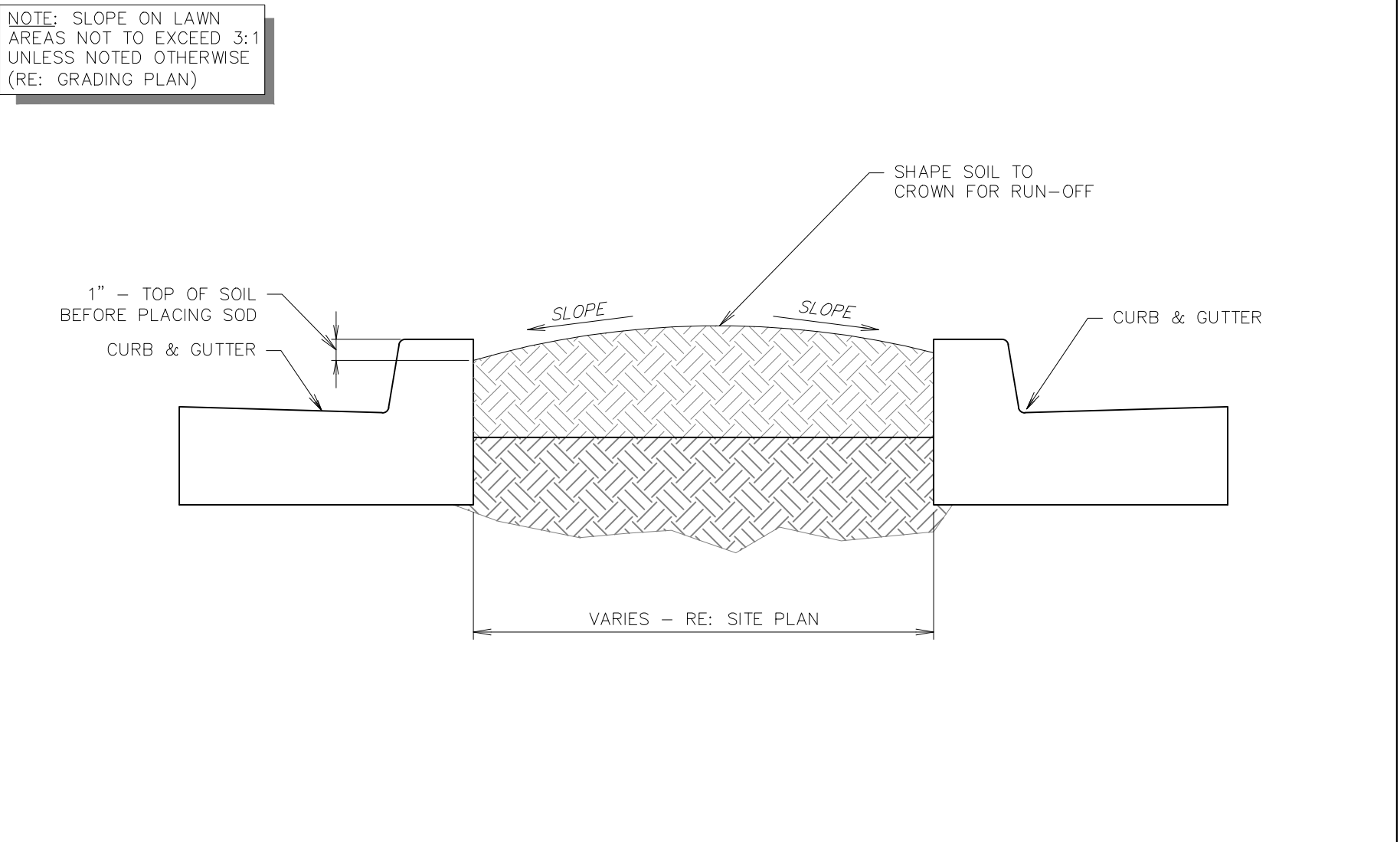
FILE LOCATION: W:\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\Dwg & Pdf Submittals\DETAILS SHEETS\DETAILS Landscaping L500-L502.dwg TAB NAME: L5 Detail Sheet 1 USER: ALopez SAVED: 11/26/2013 4:44 PM PLOTTED: 3/12/2014 8:26 AM



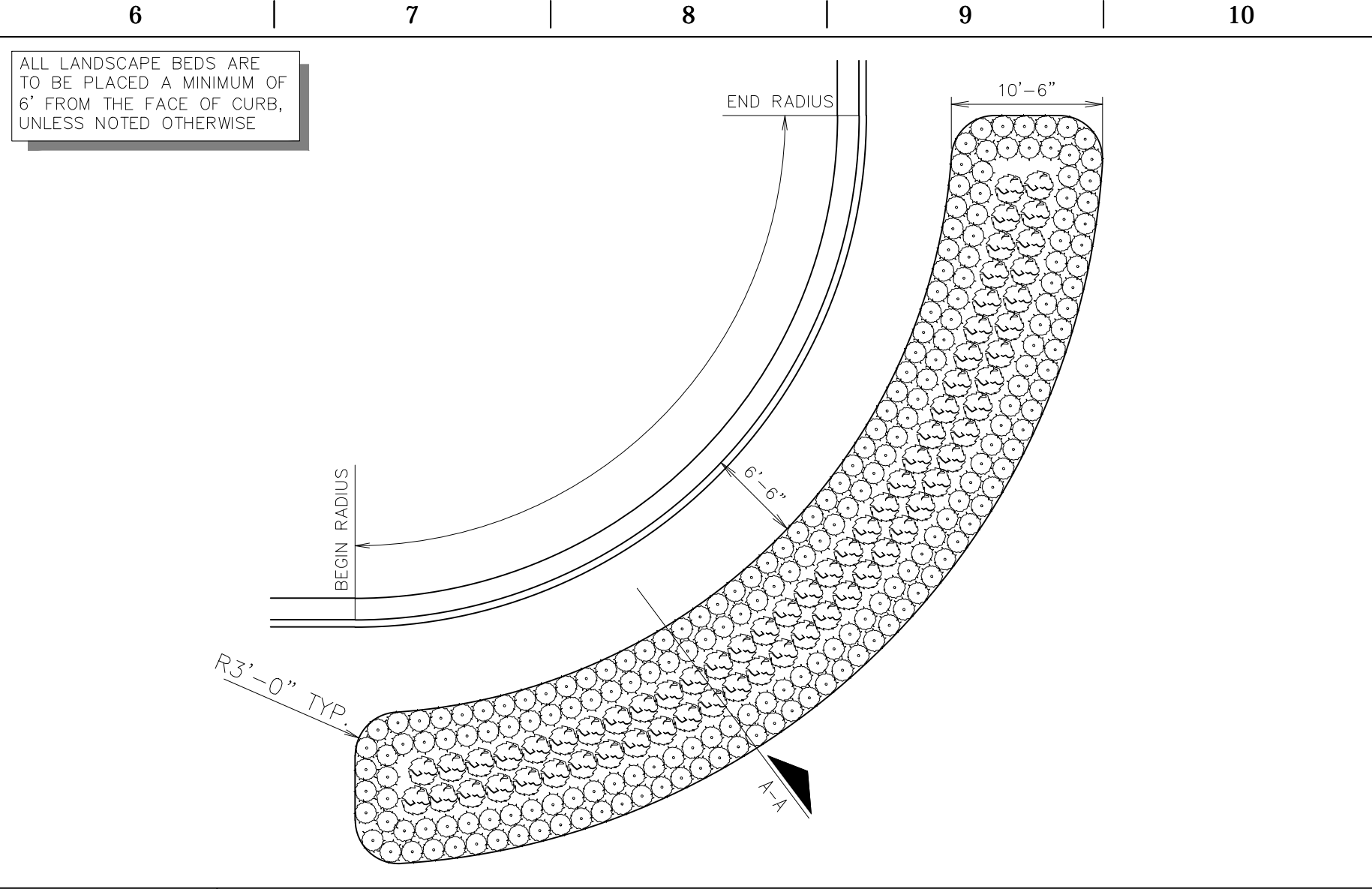
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NTS SN: LD001A004



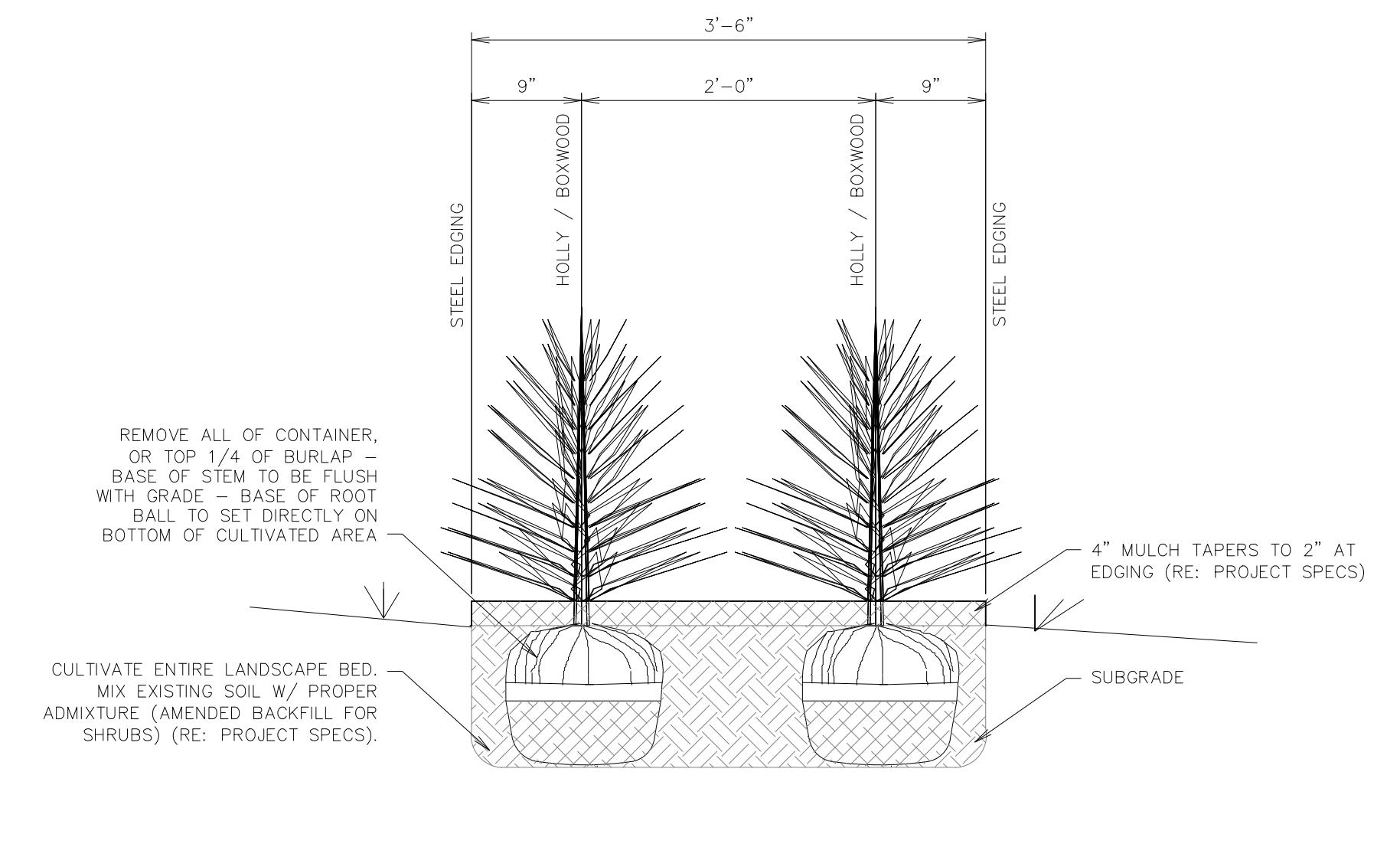
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NTS SN: LD004A004



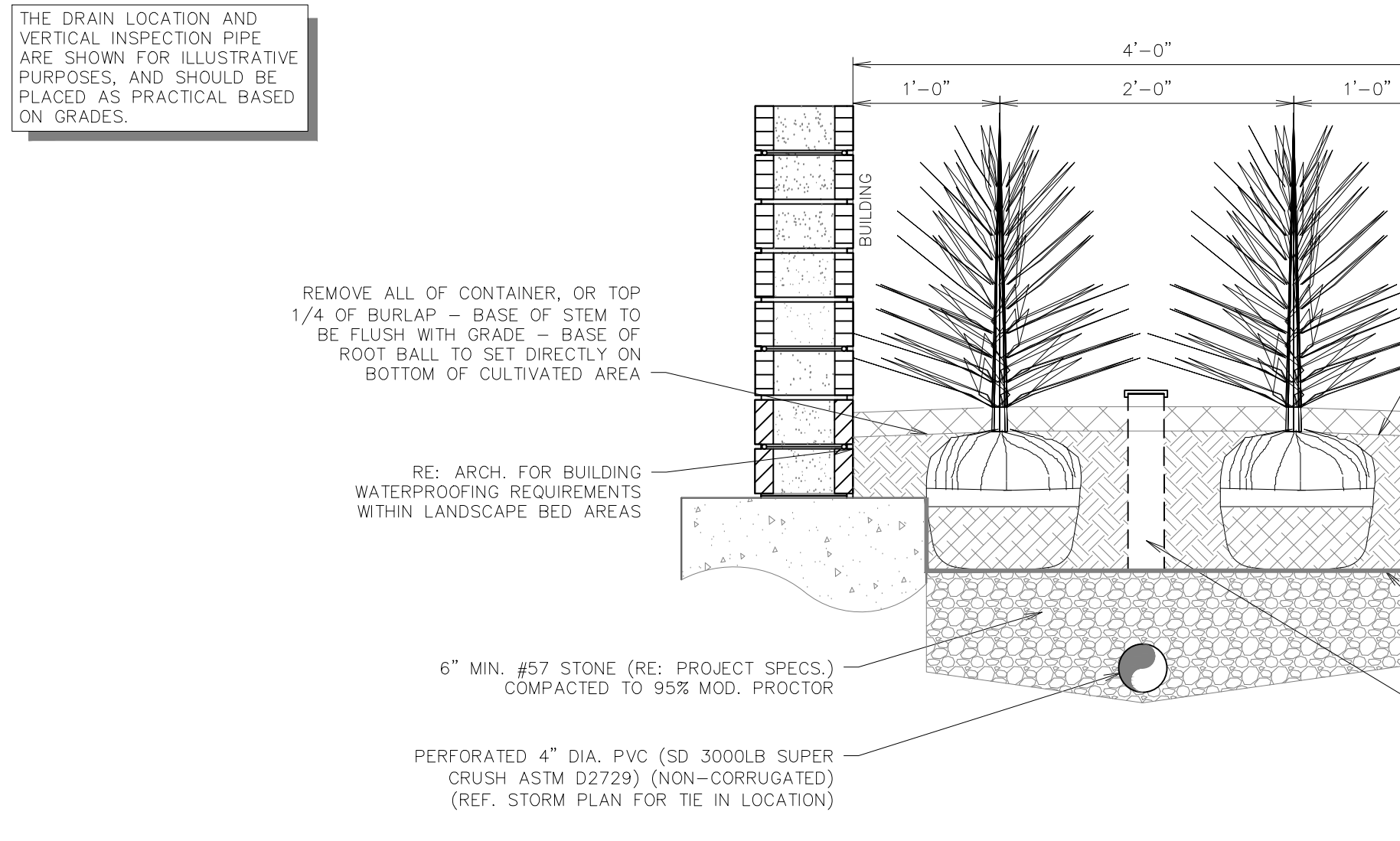
**A1** TYPICAL LAWN SECTION  
NTS SN: LD007A002



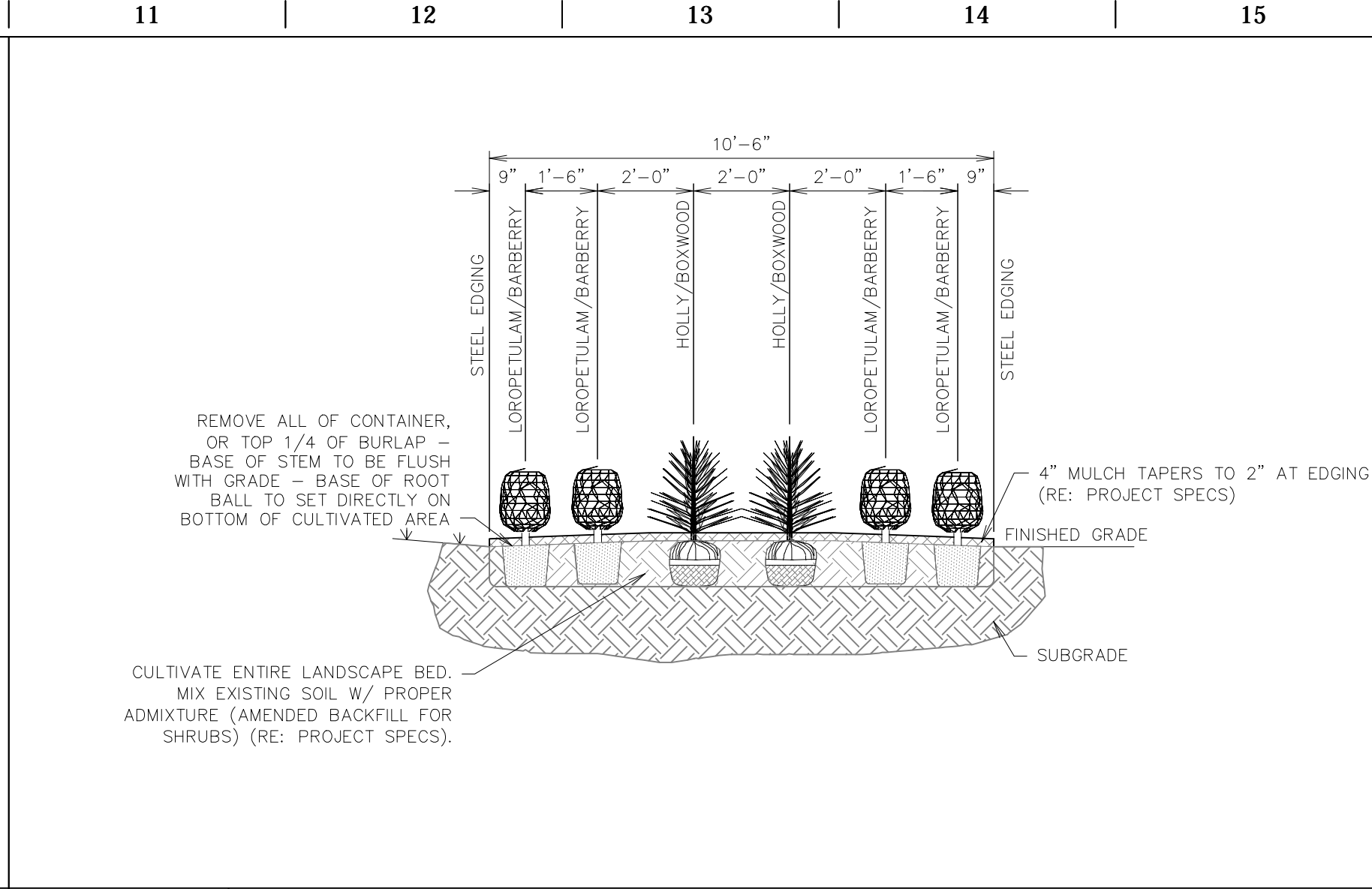
**L6** LANDSCAPE BED TYPE "B"  
NTS SN: LD002A004



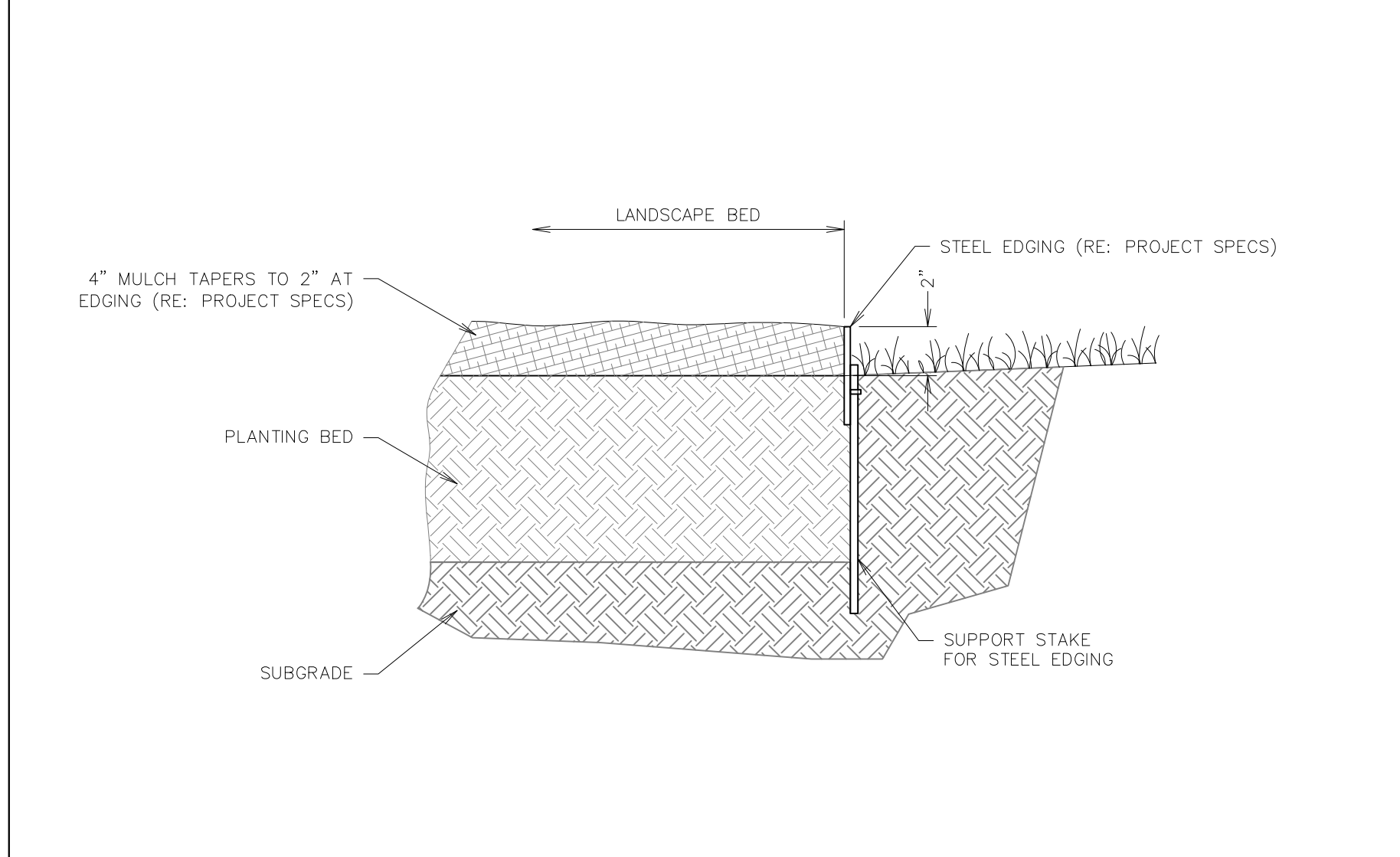
**F6** SHRUB SCREENING SECTION B-B  
NTS SN: LD005A003



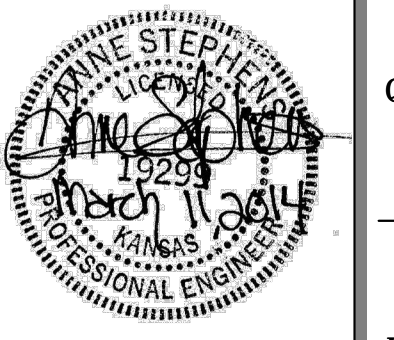
**A6** BUILDING LANDSCAPE BED DETAIL  
NTS SN: LD023A005



**L11** SHRUB PLANTING SECTION A-A  
NTS SN: LD003A003

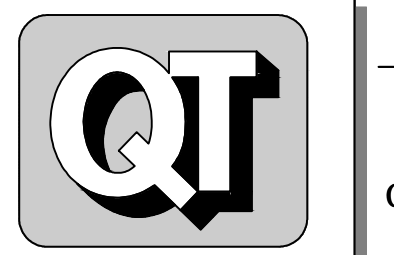


**F11** LANDSCAPE STEEL EDGING DETAIL  
NTS SN: LD006A004



PROJECT NO.: 13.W008  
**Schwab Eaton**  
8615 W. Frazier, Suite 2  
Wichita, Kansas  
P. 316.722.4472  
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**QuikTrip No. 0313R**  
K-15 & 31ST STREET SOUTH  
Lot 1, Block A, QuikTrip 14th Addition, an Addition to  
Wichita, Sedgwick County, Kansas



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PROTOTYPE: P-76 (8/01/13)  
DIVISION: WICHITA  
VERSION: 001  
DESIGNED BY: AS  
DRAWN BY: AL  
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL P.L. SHEET C510
5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	KDOT COMMENT REVISIONS
7	03/11/14	PPP # ON TITLE SHEET

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:  
LANDSCAPE DETAILS

SHEET NUMBER:  
**L500**

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

**1. MUTCD COMPLIANCE:**

ALL TEMPORARY TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION AND MAINTENANCE SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS WHICH HAS BEEN ADOPTED BY THE SECRETARY OF TRANSPORTATION. WHENEVER THE TEMPORARY TRAFFIC CONTROL STANDARDS CONFLICT WITH THE MUTCD, THE STANDARDS SHALL GOVERN.

**2. DESIGN SPEED:**

THOSE ITEMS DELEGATED TO TEMPORARY TRAFFIC CONTROL SHOULD BE DESIGNED AND INSTALLED USING THE POSTED/LEGAL SPEED OF THE ROADWAY PRIOR TO WORK STARTING.

**3. CLEAR ZONE:**

ALL CONSTRUCTION EQUIPMENT (INCLUDING VEHICLES), MATERIALS, AND DEBRIS SHALL BE STORED OUT OF THE CLEAR ZONE. WHERE THIS CANNOT BE ACHIEVED, THE CONTRACTOR SHALL PLACE APPROPRIATE SIGNS, OBJECT IDENTIFIERS, AND/OR BARRICADES AS DESIGNATED BY THE ENGINEER. TEMPORARY TRAFFIC CONTROL DEVICES NEEDED FOR THIS CONDITION SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.

**4. MINIMUM LANE WIDTHS:**

LANE WIDTHS SHALL BE A MINIMUM OF 11' (MEASURED BETWEEN CENTERLINES OF PAVEMENT MARKINGS) OR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. A LANE WIDTH LESS THAN 11' MAY REQUIRE RESTRICTED ROADWAY WIDTH SIGNING.

**5. FLAGGER:**

A MINIMUM OF ONE FLAGGER SHALL BE STATIONED WITHIN EACH MULTI-LANE ROADWAY ACTIVITY AREA WHERE WORK IS IN A CLOSED LANE ADJACENT TO TRAFFIC AND NOT SEPARATED BY A CONCRETE SAFETY BARRIER SYSTEM.

**6. PAVEMENT MARKING:**

WHEN THE WORK WILL OCCUPY A LOCATION MORE THAN THREE DAYS, ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR MASKED AND ALL TRANSITION TAPERS, CROSSOVERS, AND EDGE LINES ALONG CHANNELIZING DEVICES SHALL BE MARKED WITH SOLID 4" WIDE PAVEMENT MARKING.

**7. FIRST MODULE OF IBS:**

THE FIRST MODULE OF EACH INERTIAL BARRIER SYSTEM (IBS) SHALL HAVE A MINIMUM OF 2 SQ. FT. OF FLUORESCENT ORANGE ASTM TYPE IV SHEETING FACING TRAFFIC. EITHER A VERTICAL RECTANGLE OR DIAMOND SHAPE MAY BE USED.

**8. PEDESTRIAN / BICYCLE SAFETY:**

WORK ZONE SIGNS SHALL NOT INHIBIT PEDESTRIAN AND BICYCLE TRAFFIC ON SIDEWALKS OR OTHER AREAS DESIGNATED FOR PEDESTRIAN OR BICYCLE USE.

CONSIDERATION SHOULD BE MADE TO SEPARATE PEDESTRIAN AND BICYCLE MOVEMENTS FROM BOTH WORK SITE ACTIVITY AND VEHICULAR TRAFFIC. UNLESS A REASONABLE SAFE ROUTE THAT DOES NOT INVOLVE CROSSING THE ROADWAY CAN BE PROVIDED, PEDESTRIANS AND BICYCLISTS SHOULD BE APPROPRIATELY DIRECTED WITH ADVANCE SIGNING THAT ENCOURAGES THEM TO CROSS TO THE OPPOSITE SIDE OF THE ROADWAY. IN URBAN AND SUBURBAN AREAS WITH HIGH VEHICULAR TRAFFIC VOLUMES, THESE SIGNS SHOULD BE PLACED AT INTERSECTIONS (RATHER THAN MIDBLOCK LOCATIONS) SO THAT PEDESTRIANS AND BICYCLISTS ARE NOT CONFRONTED WITH MIDBLOCK WORK SITES THAT WILL INDUCE THEM TO ATTEMPT SKIRTING THE WORK SITE OR MAKING A MIDBLOCK CROSSING.

WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED, THE TEMPORARY FACILITIES SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

**9. CHANGED STOP CONDITIONS:**

ATTACH TWO FLUORESCENT RED-ORANGE FLAGS AND A RED TYPE "B" HIGH INTENSITY WARNING LIGHT TO ANY STOP SIGN THAT CREATES A NEW STOP CONDITION OR MOVES THE STOP CONDITION TO A NEW LOCATION. LEAVE FLAGS AND LIGHTS IN PLACE FOR AT LEAST THE FIRST 30 DAYS. INSTALL W3-1 (SYMBOLIC STOP AHEAD) SIGN IN ADVANCE OF STOP SIGN IF STOP SIGN IS NOT VISIBLE FOR A MINIMUM OF DISTANCE 'A' (SEE CHART ON TE710) OR IF STOP CONDITION IS MOVED TO LESS THAN DISTANCE 'A' FROM AN EXISTING STOP AHEAD SIGN.

**10. LUMP SUM BIDDING:**

WHEN TRAFFIC CONTROL IS BID LUMP SUM, ADDITIONAL DEVICES WILL BE PAID FOR AS EXTRA WORK.

**11. NIGHTTIME LIGHTING:**

WHEN NIGHTTIME WORK IS REQUIRED, FLOODLIGHTS SHOULD BE USED TO ILLUMINATE FLAGGER STATIONS, EQUIPMENT CROSSINGS, AND OTHER AREAS WHERE EXISTING LIGHTING IS NOT ADEQUATE FOR THE WORK TO BE PERFORMED SAFELY.

IN NO CASE SHALL FLOODLIGHTS BE PERMITTED TO CREATE A DISABLING GLARE FOR THE DRIVER. THE ADEQUACY OF THE FLOODLIGHT PLACEMENT AND ELIMINATION OF POTENTIAL GLARE SHOULD BE CHECKED BY DRIVING THROUGH THE PROJECT.

**12. NCHRP REPORT 350 CRASHWORTHY REQUIREMENTS:**

TRAFFIC CONTROL DEVICES SHALL MEET THE EVALUATION CRITERIA IN NCHRP REPORT 350 OR IN MASH REPORT 2009 AS SUPPLEMENTED BY FHWA MEMORANDUM "IDENTIFYING ACCEPTABLE HIGHWAY SAFETY FEATURES," DATED JULY 25, 1997. AVAILABLE ON THE INTERNET AT [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/policy\\_memo/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/policy_memo/)

ANY DEVICE NOT ADDRESSED BY THE TE STANDARDS MAY BE APPROVED ON A CASE BY CASE BASIS BY THE ENGINEER. THE DEVICE SHALL BE ACCOMPANIED BY AND INSTALLED ACCORDING TO MASH REPORT 2009. ANY DEVICE ACCEPTED PRIOR TO THE ADOPTION OF MASH REPORT 2009 USING CRITERIA FROM NCHRP REPORT 350 MAY REMAIN IN PLACE AND CONTINUE TO BE USED. ANY TRAFFIC CONTROL DEVICE ACCEPTED USING NCHRP REPORT 350 CRITERIA IS NOT REQUIRED TO BE TESTED UNDER MASH REPORT 2009. HOWEVER, NEW TRAFFIC CONTROL DEVICES NOT PREVIOUSLY EVALUATED MUST UTILIZE MASH REPORT 2009 FOR TESTING AND EVALUATION.

**THE CONTRACTOR SHALL:**

1) PROVIDE TO THE ENGINEER A COPY OF THE MANUFACTURER'S SELF-CERTIFICATION THAT ANY CATEGORY 1 (i.e. - PLASTIC CONICAL DELINEATORS, TUBULAR MARKERS, DRUMS WITHOUT ATTACHMENTS) AND CATEGORY 2 (i.e. - PORTABLE SIGN STANDS (WITH SIGNS), TYPE II AND III BARRICADES, AND VERTICAL PANELS) DEVICES USED ON THE PROJECT ARE NCHRP REPORT 350 OR MASH REPORT 2009 COMPLIANT.

2) PROVIDE TO THE ENGINEER A COPY OF THE ENTIRE FHWA ACCEPTANCE LETTER (WZ-xxx) FOR ANY CATEGORY 2 DEVICE (i.e. - PORTABLE SIGN STANDS (WITH SIGNS), TYPE II AND III BARRICADES, AND VERTICAL PANELS) USED ON THE PROJECT. WORK ZONE FHWA ACCEPTANCE LETTERS (WZ-xxx) ARE AVAILABLE ON THE INTERNET AT: [http://safety.fhwa.dot.gov/roadway\\_dept/policy\\_guide/road\\_hardware/wzd/](http://safety.fhwa.dot.gov/roadway_dept/policy_guide/road_hardware/wzd/)

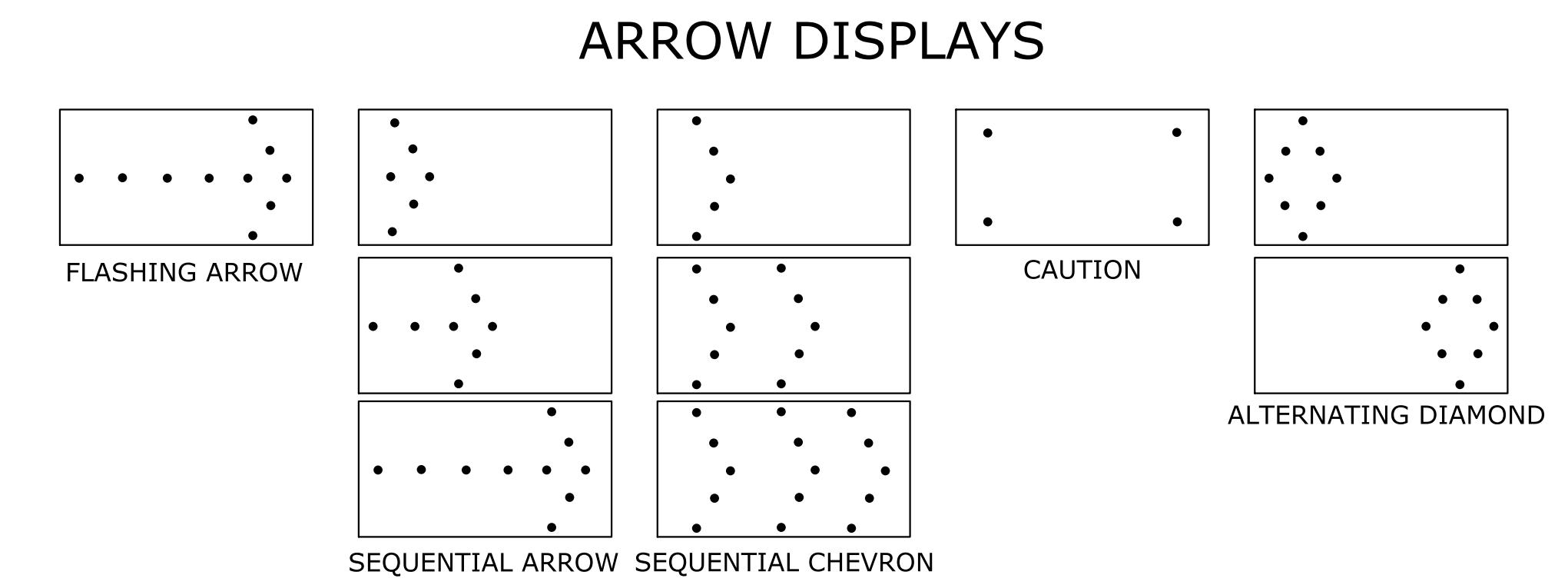
3) CERTIFY THAT THE TRUCK MOUNTED ATTENUATORS (TMA'S) (WHICH ARE DEFINED AS CATEGORY 3 DEVICES BY THE FHWA MEMORANDUM) MEET CURRENT CRASHWORTHY SPECIFICATIONS AS DEFINED ABOVE AND INCLUDE A COPY OF THE ENTIRE FHWA ACCEPTANCE LETTER. ALL CATEGORY 1 & 2 DEVICES SHALL BE NCHRP REPORT 350 OR MASH REPORT 2009 COMPLIANT.

**13. LEAD IN CHANNELIZING DEVICES ON CENTERLINE:**

TEMPORARY RUMBLE STRIPS MAY BE USED IN LIEU OF LEAD IN CENTERLINE CHANNELIZING DEVICES WHEN THE ROADWAY IS LESS THAN OR EQUAL TO 30' (FEET) INCLUDING PAVED SHOULDERS. WHEN EXTENUATING CIRCUMSTANCES EXIST, THE AREA ENGINEER MAY ELECT TO ELIMINATE BOTH THE LEAD IN CHANNELIZERS AND THE RUMBLE STRIPS.

**14. TEMPORARY RUMBLE STRIPS:**

ALTERNATIVE TEMPORARY RUMBLE STRIP OPTIONS MAY BE AVAILABLE. PLEASE CONTACT THE TEMPORARY TRAFFIC CONTROL UNIT FOR MORE INFORMATION AT 785-296-0355 OR 785-296-1183.



ARROW DISPLAY ELEMENTS SHALL BE CAPABLE OF A MINIMUM 50 PERCENT DIMMING FROM THEIR FULL-RATED LAMP VOLTAGE. FULL LAMP VOLTAGE SHOULD BE USED DURING THE DAY AND DIMMED MODE SHALL BE USED AT NIGHT. FOR SHOULDER WORK, ROADSIDE WORK NEAR THE SHOULDER, BLOCKING THE SHOULDER, OR FOR TEMPORARY CLOSING ONE LANE ON A TWO-LANE, TWO-WAY ROADWAY, AN ARROW PANEL SHALL BE USED ONLY IN THE CAUTION MODE.

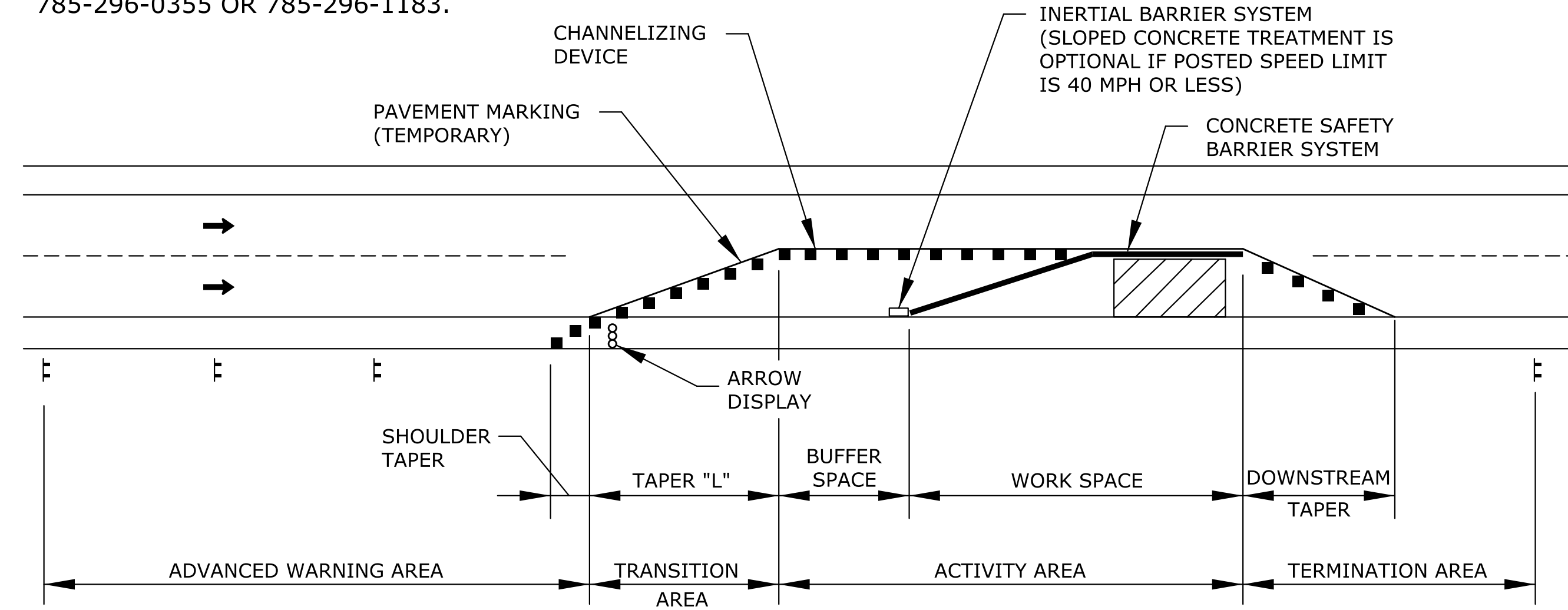
### BUFFER SPACE

SPEED (MPH) *	20	25	30	35	40	45	50	55	60	65	70	75
LENGTH (ft)	115	155	200	250	305	360	425	495	570	645	730	820

\* POSTED SPEED PRIOR TO WORK STARTING

NEITHER WORK ACTIVITY NOR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR IN THE BUFFER SPACE. WHEN A PROTECTION VEHICLE IS PLACED IN ADVANCE OF THE WORK SPACE, ONLY THE SPACE UPSTREAM OF THE VEHICLE CONSTITUTES THE BUFFER SPACE.

IF TEMPORARY CONCRETE SAFETY BARRIER SYSTEM IS USED TO SEPARATE APPROACHING TRAFFIC FROM THE WORK SPACE, THE BARRIER SYSTEM SHALL BE CONSIDERED PART OF THE ACTIVITY AREA. A FULL LANE WIDTH SHOULD BE AVAILABLE THROUGHOUT THE LENGTH OF THE BUFFER SPACE. SEE TYPICAL WORK ZONE COMPONENTS.



NOTE:  
REFER TO STD. TE702 FOR TAPER "L" FORMULA.

### TYPICAL WORK ZONE COMPONENTS

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Drawn By : jmadrid  
File : te700.dgn

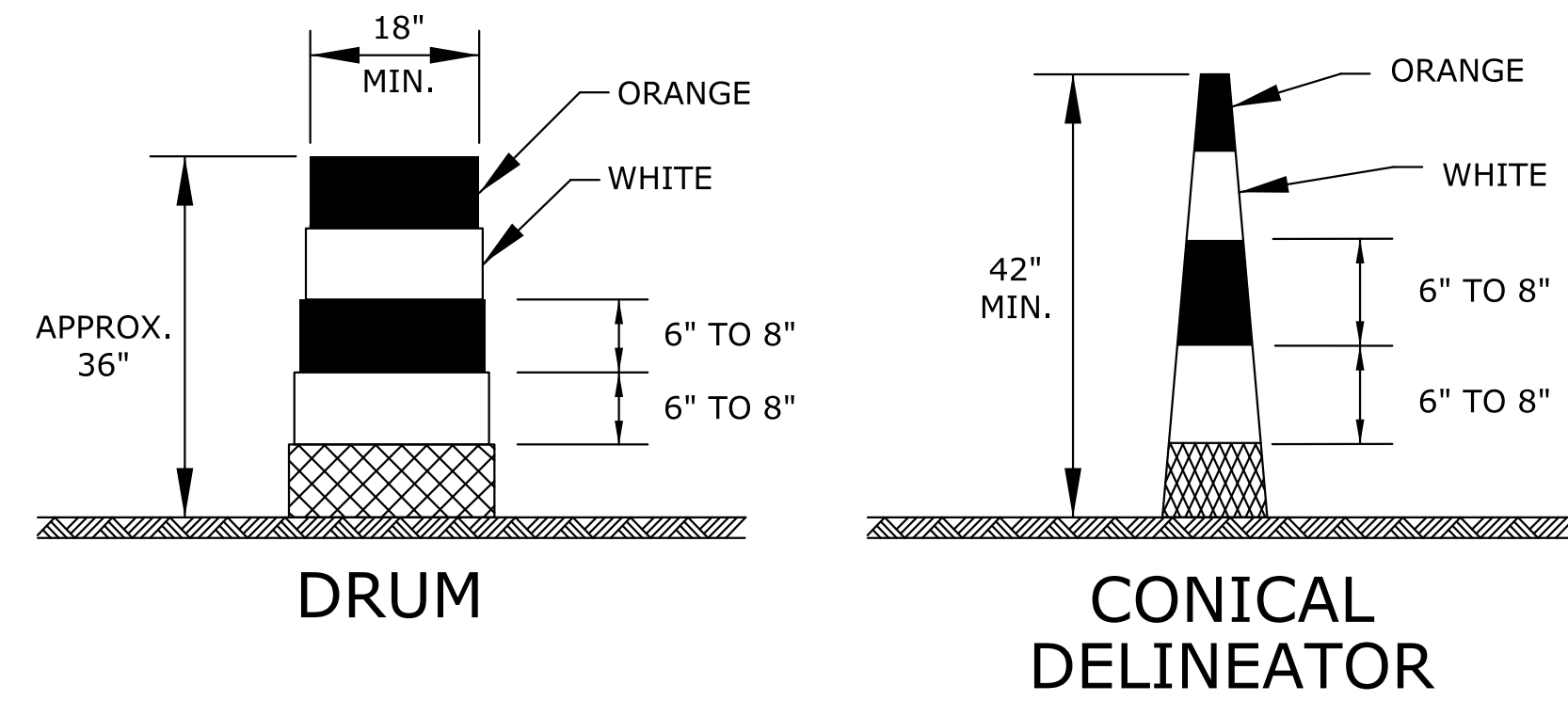
3	10/16/12	Removed Note 13, Added Alternating Diamonds	J.A.M.	K.P.
2	10/4/11	Modified Notes 9,12 & 15, Added Note 15	J.A.M.	K.P.
1	11/30/09	Added Note 14	J.A.M.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION  
**GENERAL TRAFFIC CONTROL**

**TE700**

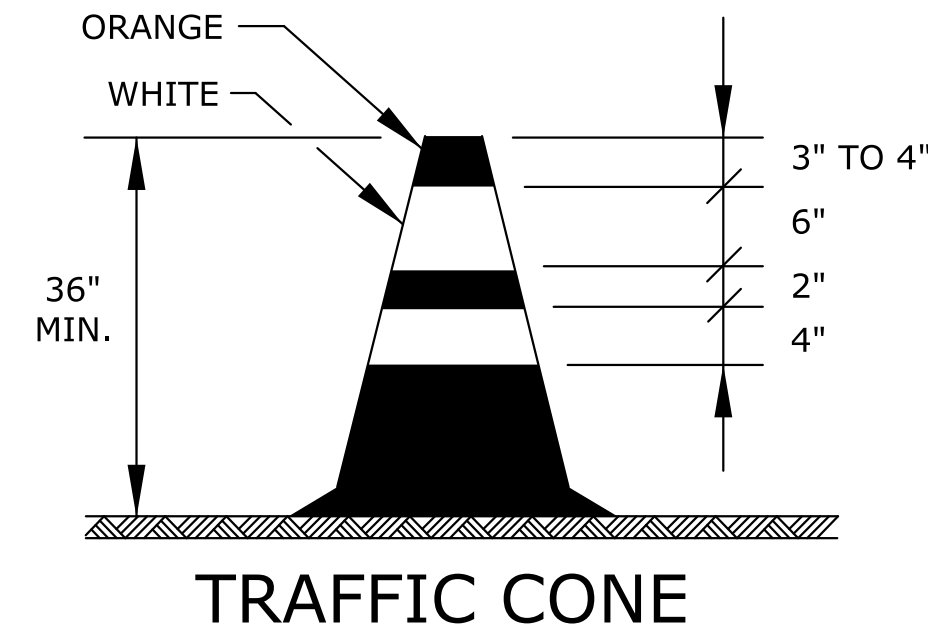
FHWA APPROVAL	10/16/12	APP'D	Kristina Pyle
DESIGNED	B.A.H.	DETAILED	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

KDOT Graphics Certified 10-23-2012 Sh. No. XXX

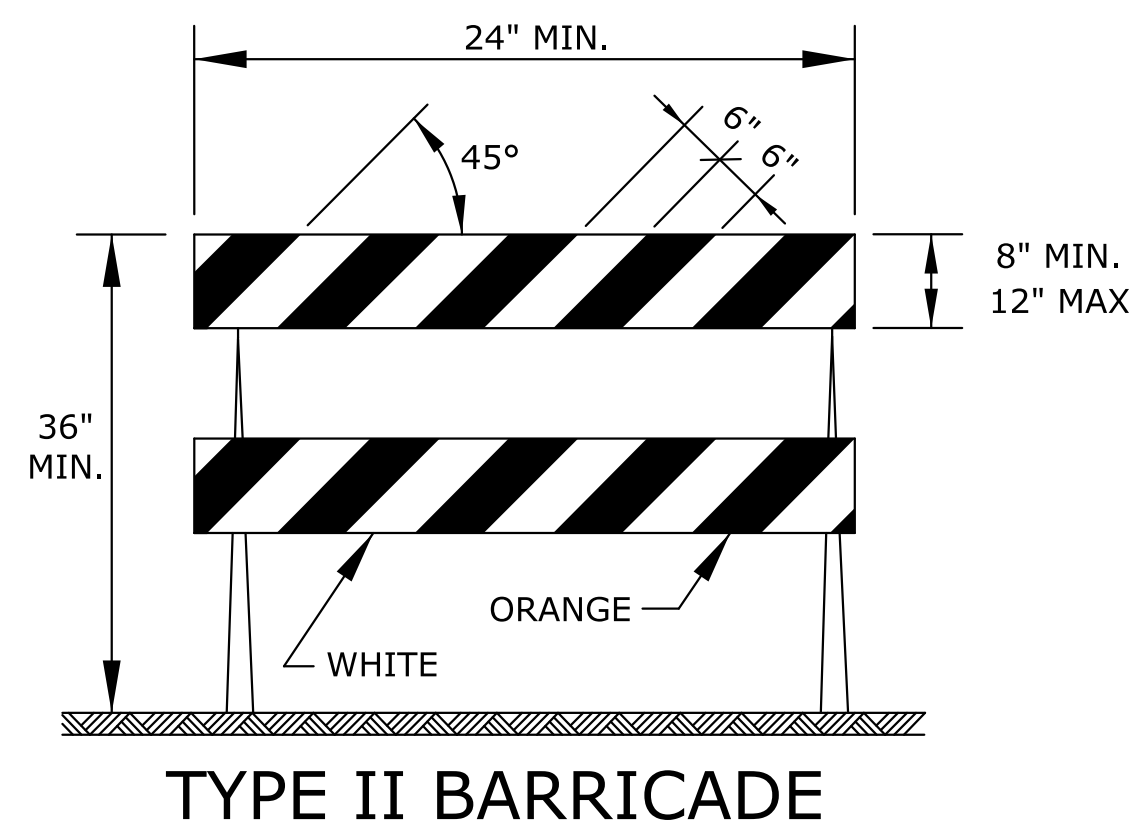


DRUMS AND CONICAL DELINEATORS SHALL HAVE AT LEAST TWO ORANGE AND TWO WHITE 6" TO 8" WIDE RETROREFLECTIVE STRIPES. ADDITIONAL STRIPES MAY BE NON-RETROREFLECTIVE. IF THERE ARE NON-RETROREFLECTIVE SPACES BETWEEN ADJACENT STRIPES, THEY SHALL BE NO MORE THAN 3" WIDE.

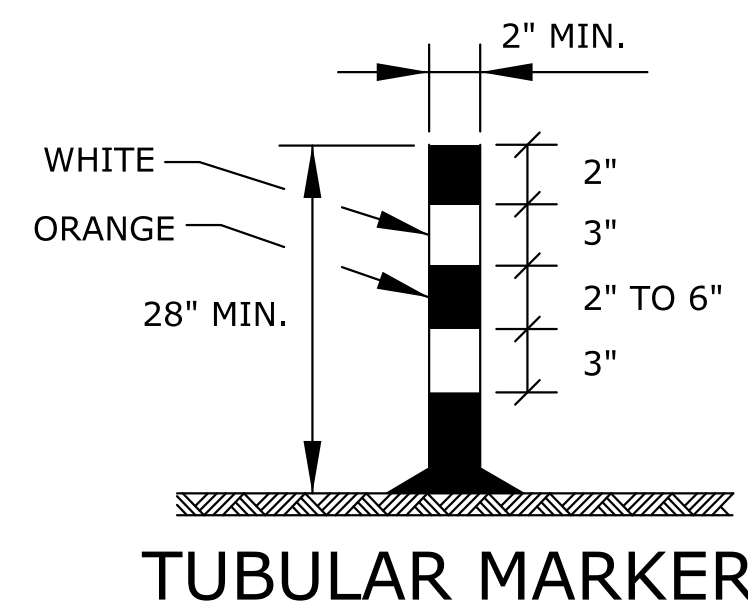
ALL RETROREFLECTIVE STRIPES ON DRUMS SHALL BE ASTM TYPE III SHEETING. THE WHITE STRIPES ON CONICAL DELINEATORS SHALL BE ASTM TYPE III SHEETING. ORANGE STRIPES ON ALL CONICAL DELINEATORS SHALL BE FLUORESCENT ORANGE ASTM TYPE IV SHEETING.



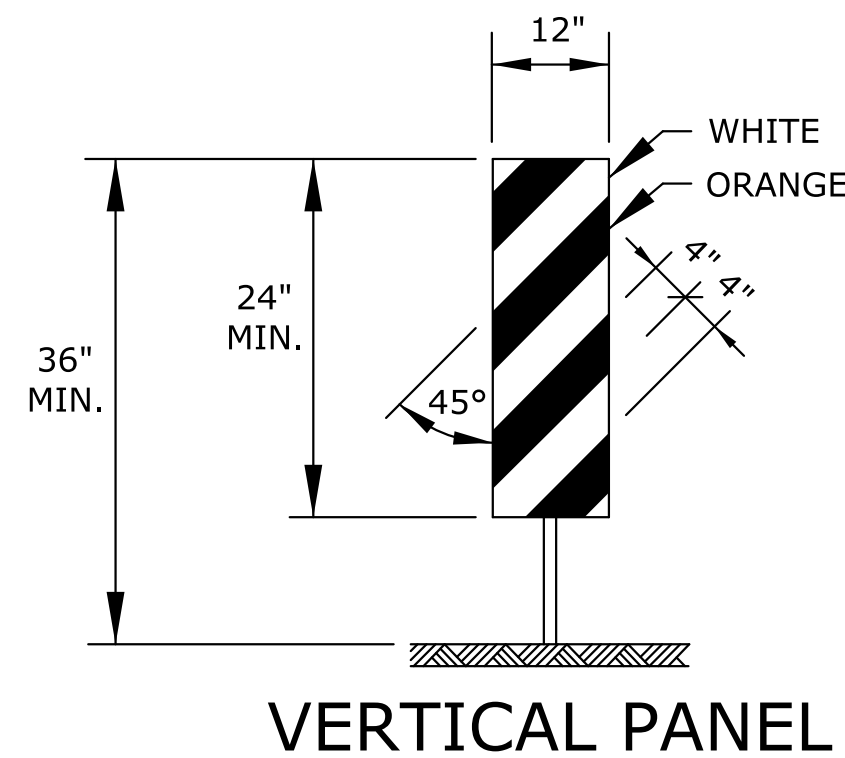
TRAFFIC CONES MAY BE USED AS CHANNELIZING DEVICES FOR DAYTIME OPERATIONS ONLY. THEY WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE SUBSIDIARY TO OTHER TRAFFIC CONTROL BID ITEMS. THE ENGINEER MAY REQUIRE THAT TRAFFIC CONES BE SUPPLEMENTED BY OTHER TRAFFIC CONTROL DEVICES IN CERTAIN SITUATIONS.



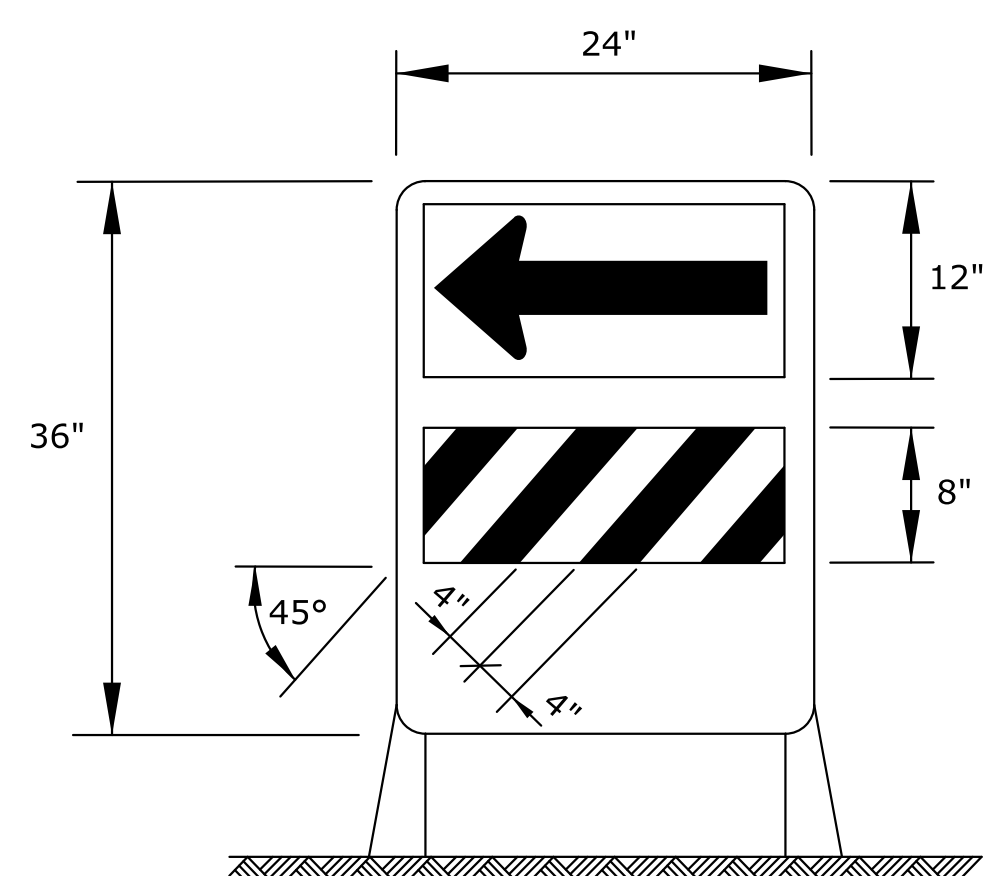
FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. THE ENTIRE AREA OF BARRICADE RAILS, BOTH FRONT AND BACK, SHALL BE ASTM TYPE III SHEETING. THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



THE TWO WHITE RETROREFLECTIVE STRIPES SHALL BE ASTM TYPE III SHEETING. STRIPING AS SHOWN FOR UP TO 42".



THE ENTIRE AREA OF VERTICAL PANELS, BOTH FRONT AND BACK, SHALL HAVE ASTM TYPE III SHEETING. THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



THE ARROW PANEL SHALL BE BLACK ON FLUORESCENT ORANGE ASTM TYPE IV SHEETING. THE STRIPES SHALL BE ORANGE AND WHITE ASTM TYPE III SHEETING SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. THE DIRECTION INDICATOR BARRICADE SHALL BE USED IN SERIES TO DIRECT THE MOTORIST INTO THE INTENDED LANE OF TRAVEL. THE ARROW PANEL SHOULD NOT BE VISIBLE TO OPPOSING TRAFFIC.

**TAPER FORMULAS:**

$$L = WS \text{ FOR SPEEDS OF 45 MPH OR MORE}$$

$$L = WS^2/60 \text{ FOR SPEEDS OF 40 MPH OR LESS}$$

WHERE: L = MINIMUM LENGTH OF TAPER IN FEET  
S = NUMERICAL VALUE OF POSTED SPEED PRIOR TO WORK STARTING IN MPH  
W = WIDTH OF OFFSET IN FEET

**CHANNELIZER PLACEMENT:**

(A) THE SPACING BETWEEN DEVICES IN TRANSITION AREA (TAPER) SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO 1/2 THE POSTED SPEED LIMIT IN MPH PRIOR TO WORK STARTING.

(B) THE SPACING BETWEEN DEVICES IN THE ADVANCED WARNING AREA AND THE ACTIVITY AREA SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO TWO TIMES THE POSTED SPEED LIMIT IN MPH PRIOR TO WORK STARTING.

(C) CHANNELIZING DEVICES SHALL BE PLACED FOR OPTIMUM VISIBILITY, NORMALLY AT RIGHT ANGLES TO THE TRAFFIC FLOW.

(D) CHANNELIZING DEVICES PLACED ALONG SHOULDER EDGES OR IN DROPOFFS SHALL HAVE A MINIMUM OF 24" FROM THE TOP OF THE CHANNELIZING DEVICE TO THE TOP OF THE PAVEMENT.

ITEM	LOCATION	CHANNELIZATION LOCATIONS								
		CROSS-OVERS	SHOULDER DIVERSTIONS	TANGENTS	TAPERS	RAMPS	HEAD TO HEAD	OBJECT IDENTIFIER	LEAD IN DEVICES	GORES
PORTABLE	DRUMS	YES	YES	YES	YES	YES	(1)	YES	YES	YES
	CONICAL DELINEATORS	YES	YES	YES	YES	YES	(1)	YES	YES	YES
	VERTICAL PANELS	(2)	(2)	(2)	(2)	(2)	(1,2)	YES	(2)	(2)
	DIRECTION INDICATOR BARRICADE	NO	NO	NO	YES	NO	NO	NO	NO	NO
	TYPE II BARRICADE	(2)	(2)	(2)	(2)	NO	NO	YES	NO	NO
FIXED	TUBULAR MARKERS	(3)	(3)	(3)	NO	(3)	YES	NO	YES	YES
	VERTICAL PANELS	(3)	(3)	(3)	(3)	(3)	(3)	YES	(2,3)	(2)

- (1) NOT ALLOWED ON CENTERLINE DELINEATION ALONG FREEWAYS OR EXPRESSWAYS.
- (2) THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.
- (3) MAY BE USED UPON THE APPROVAL OF THE ENGINEER.

3	10/16/12	Added Lead In Devices Into Matrix Table	J.A.M.	K.P.
2	10/4/11	Added Dimension To Tubular Marker Detail	J.A.M.	K.P.
1	4/20/09	Channelizer Placement & Traffic Cone Detail	J.A.M.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
CHANNELIZING DEVICES				
TE702				
FHWA APPROVAL	10/16/12	APP'D	Kristina Pyle	
DESIGNED	L.E.R.	DETAILED	B.A.H.	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

NOTE: SIGNS SHOWN FOR ONE APPROACH TO WORK ZONE.

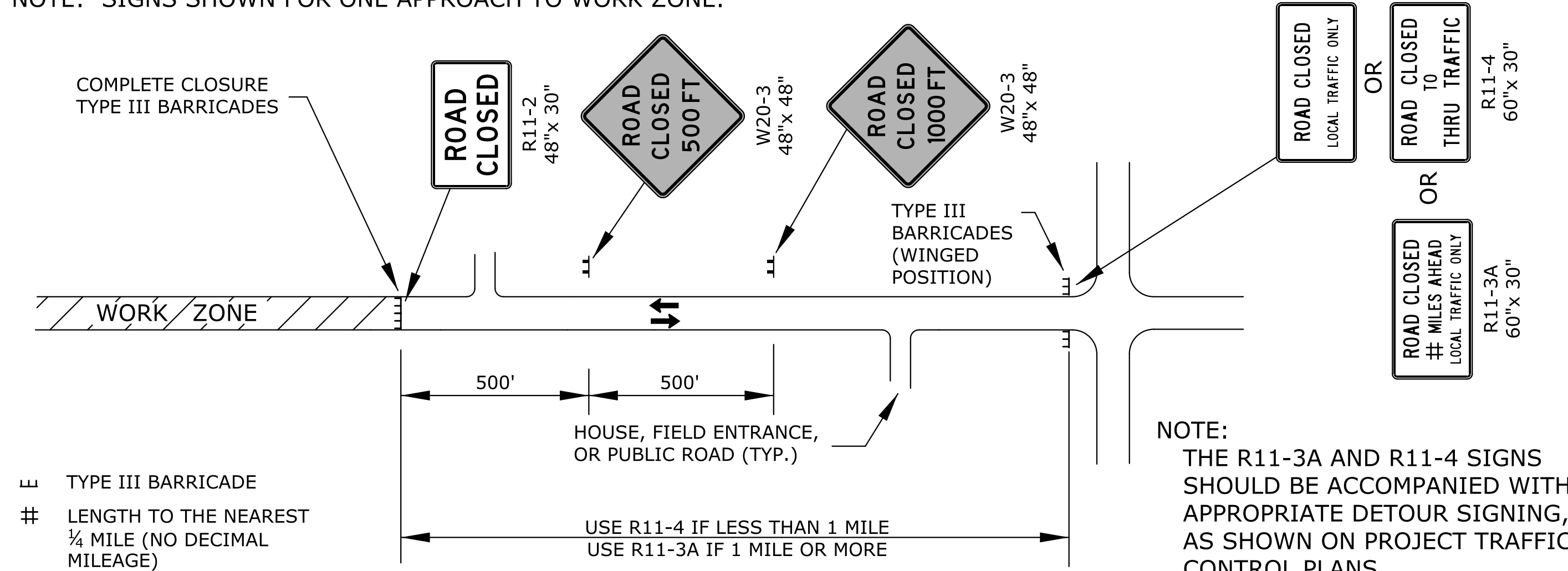


FIGURE 1: TYPICAL SIGNING FOR ROAD CLOSURE

NOTE: SIGNS SHOWN FOR ONE APPROACH TO WORK ZONE.

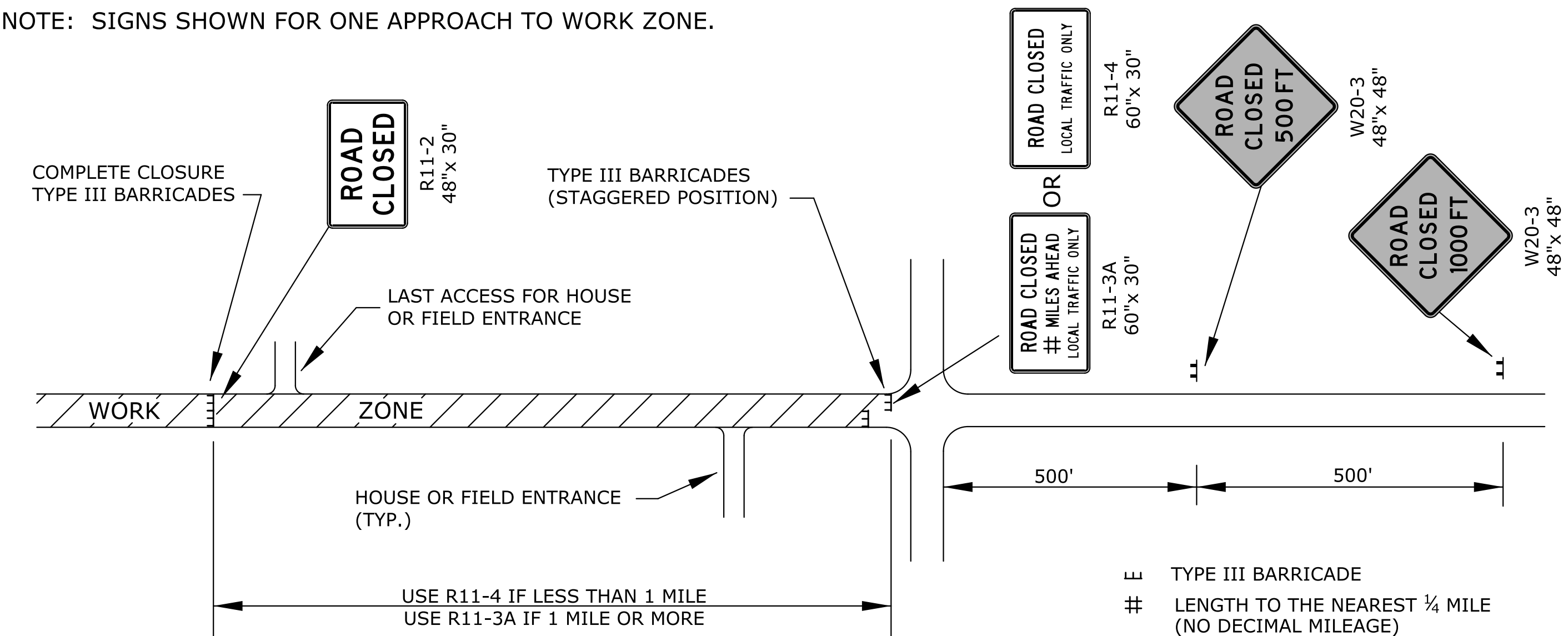


FIGURE 4: TYPICAL SIGNING FOR ROAD CLOSURE - LOCAL TRAFFIC ACCESS

NOTE: SIGNS SHOWN FOR ONE APPROACH TO INTERSECTION (WORK ZONE).

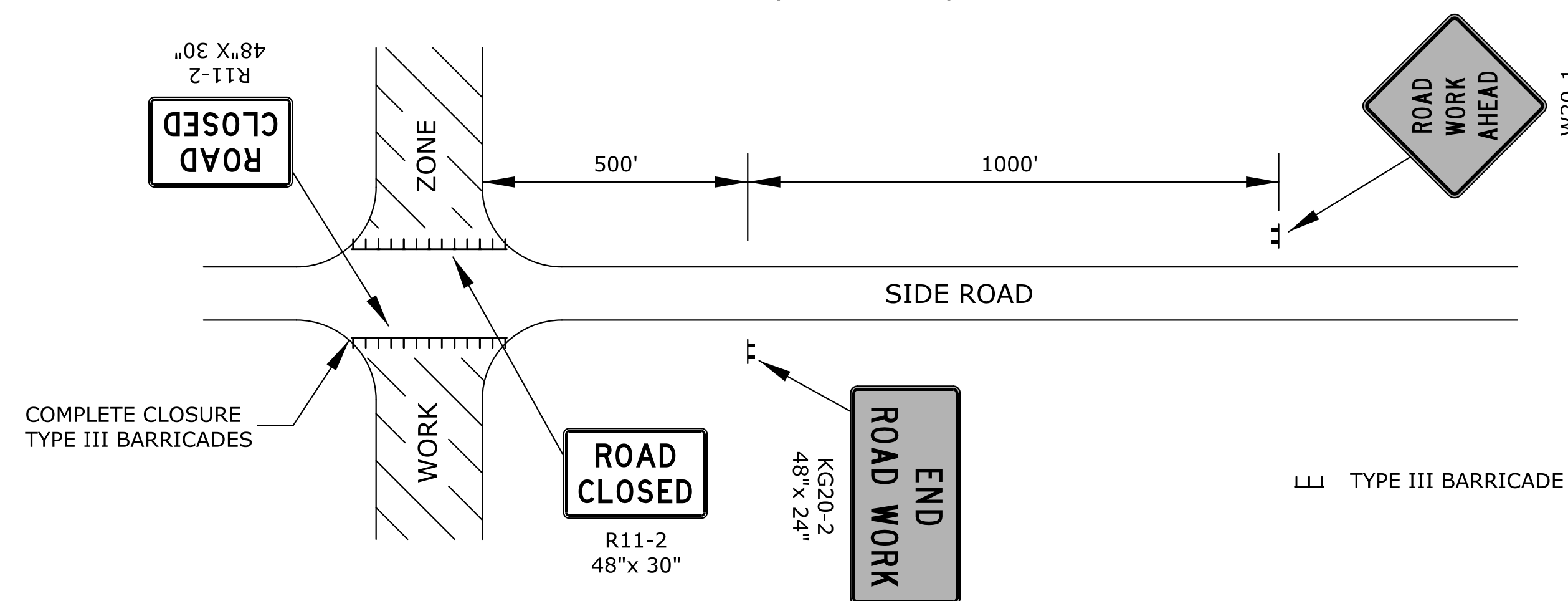


FIGURE 2: TYPICAL SIGNING FOR SIDE ROAD OPEN

NOTE: SIGNS SHOWN FOR ONE APPROACH TO INTERSECTION (WORK ZONE).

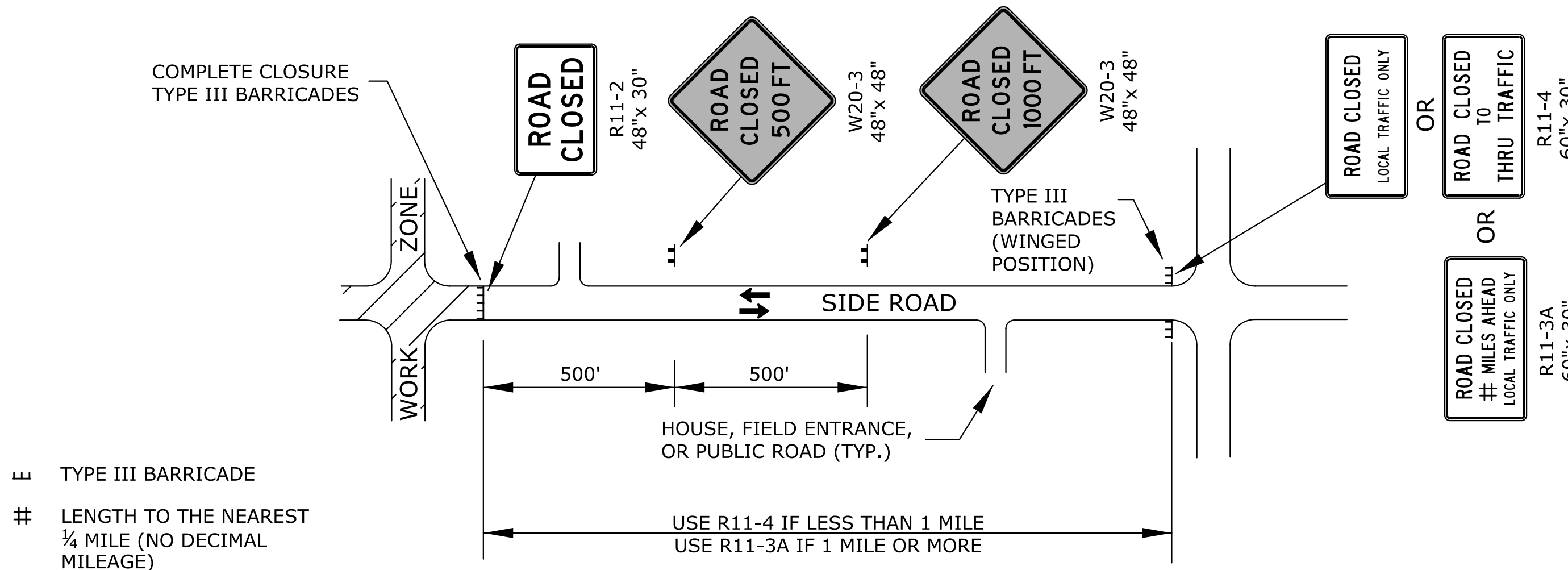


FIGURE 3: TYPICAL SIGNING FOR SIDE ROAD CLOSED

NOTES:

1. SIGNS:

THE R11-4 (ROAD CLOSED TO THRU TRAFFIC OR ROAD CLOSED LOCAL TRAFFIC ONLY) SIGN SHALL BE USED WHEN THE DISTANCE TO THE POINT OF COMPLETE CLOSURE OF THE ROADWAY IS LESS THAN 1 MILE.

THE R11-3A (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) SIGN SHALL BE USED WHEN THE DISTANCE TO THE POINT OF COMPLETE CLOSURE OF THE ROADWAY IS 1 MILE OR GREATER.

THE WORDS "BRIDGE OUT" (OR BRIDGE CLOSED) MAY BE SUBSTITUTED FOR THE WORDS "ROAD CLOSED" ON THE R11-3A OR R11-4 SIGN WHERE APPLICABLE.

2. BARRICADE PLACEMENT:

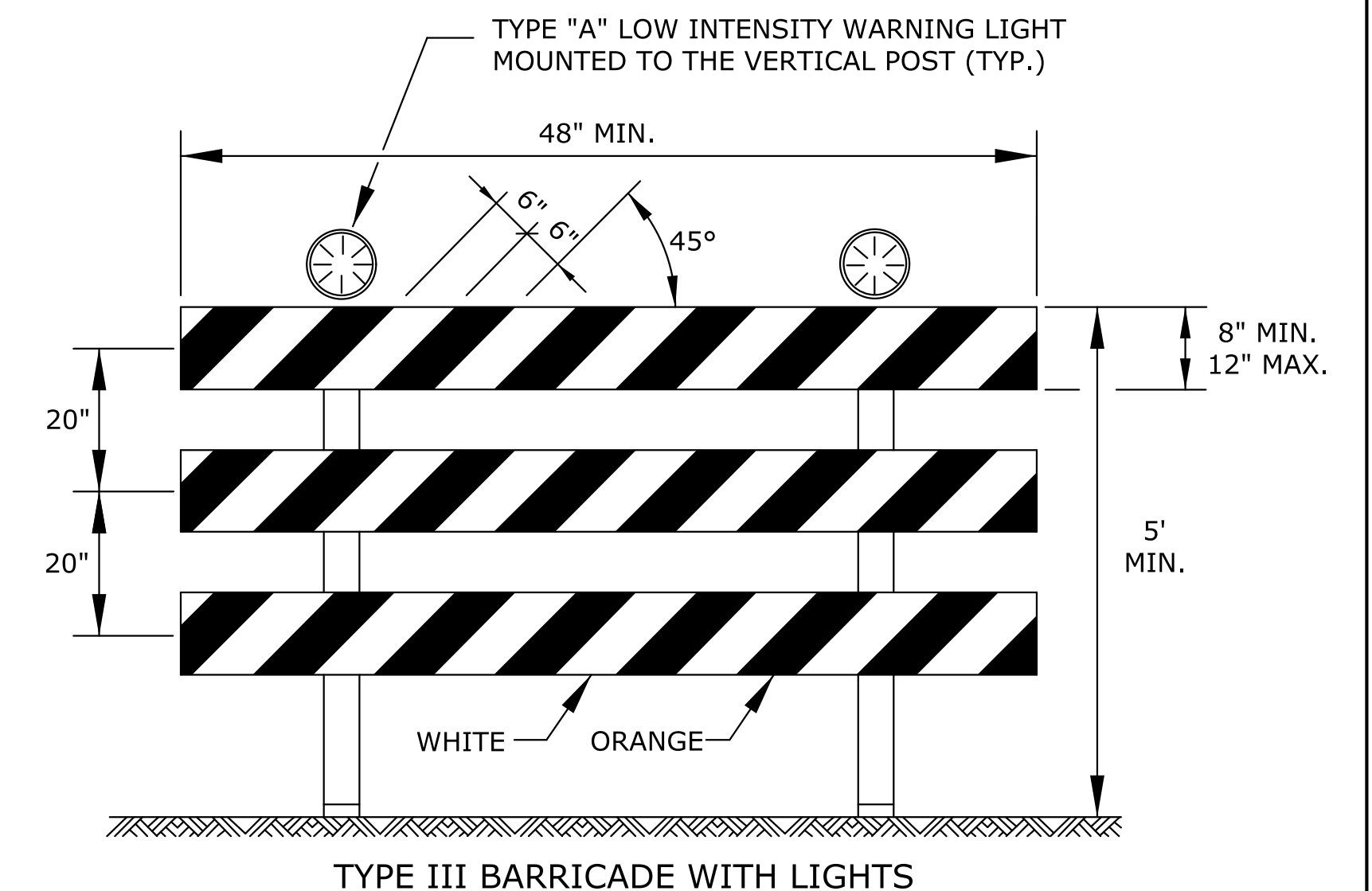
A) COMPLETE ROAD CLOSURE

WHEN A ROADWAY IS CLOSED, TYPE III BARRICADES SHALL BE PLACED END-TO-END TO COMPLETELY COVER THE ROADWAY AND SHOULDERS. WHEN ACCESS MUST BE ALLOWED FOR CONSTRUCTION OR OTHER OFFICIAL/GOVERNMENT VEHICLES, TYPE III BARRICADES SHALL BE LONGITUDINALLY STAGGERED FAR ENOUGH APART FROM ONE ANOTHER TO ALLOW SAFE PASSAGE OF VEHICLES AND MAINTAIN THE APPEARANCE OF A CLOSED ROADWAY. TYPE III BARRICADES SHALL BE REALIGNED AND PLACED END-TO-END TO DENY ANY ACCESS WHEN THE CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY.

B) ROAD CLOSED - LOCAL TRAFFIC

AS SHOWN IN FIGURE 4, WHEN LOCAL TRAFFIC MUST BE ALLOWED ACCESS INTO THE WORK ZONE, TYPE III BARRICADES SHALL BE LONGITUDINALLY STAGGERED TO MAINTAIN THE APPEARANCE OF A CLOSED ROADWAY. A SECOND LINE OF END-TO-END TYPE III BARRICADES SHALL BE PLACED JUST BEYOND THE LAST ACCESS POINT IN THE WORK ZONE, TO COMPLETELY CLOSE THE ROADWAY AS DESCRIBED IN NOTE 2-A.

AS SHOWN IN FIGURE 1 AND FIGURE 3, AT THE POINT WHERE THRU TRAFFIC MUST DETOUR AND LOCAL TRAFFIC CAN PROCEED TO THE LOCATION WHERE THE ROADWAY IS COMPLETELY CLOSED, THE R11-3A (ROAD CLOSED # MILES AHEAD LOCAL TRAFFIC ONLY) OR R11-4 (ROAD CLOSED LOCAL TRAFFIC ONLY OR ROAD CLOSED TO THRU TRAFFIC) SIGN SHALL BE USED WITH TYPE III BARRICADES (WINGED POSITION), PLACED ON THE SHOULDERS OF ROADWAY.



TYPE III BARRICADE WITH LIGHTS

THE ENTIRE AREA OF BARRICADE RAILS, BOTH FRONT AND BACK, SHALL HAVE ASTM TYPE III SHEETING.

THE STRIPES SHALL SLOPE DOWNWARD TO THE SIDE TRAFFIC IS TO PROCEED OR TOWARD THE CENTER OF THE ROADWAY AT ROAD CLOSURES. APPROVED SIGNS MOUNTED ON TYPE III BARRICADES SHOULD NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

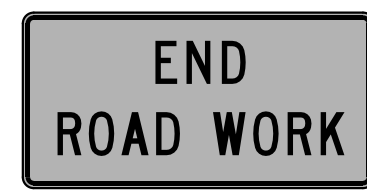
WHEN BARRICADES ARE PLACED END-TO-END OR STAGGERED, A TYPE "A" LOW INTENSITY WARNING LIGHT SHALL BE MOUNTED TO THE VERTICAL POST NEAR EACH OUTSIDE CORNER OF THE END BARRICADES.

3	10/16/12	Modified Type III Barricade Note	J.A.M.	K.P.
2	8/8/07	Added Position To Type III Barricade	M.B.	A.A.A.
1	12/29/05	Note #1 Modified	M.B.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
TYPICAL TRAFFIC CONTROL ROAD CLOSURES				
TE704				
FHWA APPROVAL	10/16/12	APP'D	Kristina Pyle	
DESIGNED	B.A.H.	DETAILED	B.A.H.	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE	CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

## SIGN LAYOUT INFORMATION



KG20-2

STD. SIZE  
EXPWY/FREEWAY  
6" C  
48"x 24"



KG20-5

STD. SIZE  
EXPWY/FREEWAY  
6" C  
48"x 24"



KM4-20

STD. SIZE  
EXPWY/FREEWAY  
3" C  
24"x 6"

6" C  
48"x 12"



W7-3a

MILEAGE TO BE DETERMINED BY THE ENGINEER.



W8-11

STD. SIZE  
EXPWY/FREEWAY  
8" D  
48"x 48"



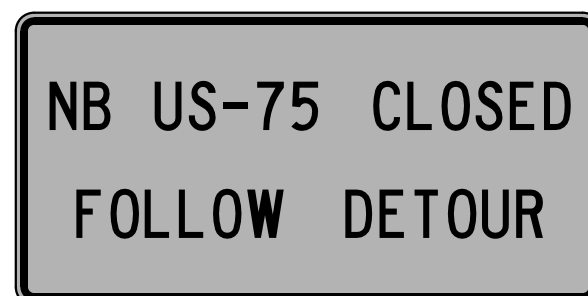
W8-17

STD. SIZE  
EXPWY/FREEWAY  
48"x 48"



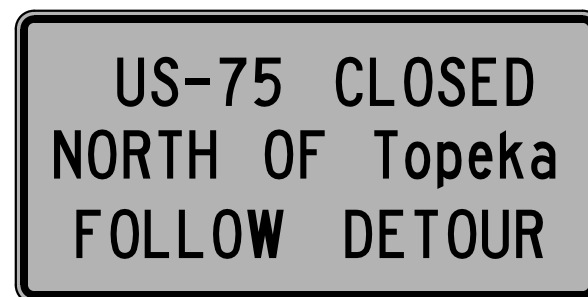
W8-17P  
(OPTIONAL)

STD. SIZE  
EXPWY/FREEWAY  
30"x 24"



SP-01  
(SPECIAL SIGN)

STD. SIZE  
EXPWY/FREEWAY  
6" C  
10" D



SP-02  
(SPECIAL SIGN)

STD. SIZE  
EXPWY/FREEWAY  
UPPERCASE: 6" C  
LOWER CASE: 4.5" C  
UPPERCASE: 10" D  
LOWER CASE: 8" D

ALL CITY NAMES AND STREET NAMES ON SPECIAL SIGNS AND DESTINATION SIGNS MUST HAVE UPPER AND LOWER CASE LETTERS.

ALL SIGNS SHALL BE BLACK ON ORANGE RETROREFLECTIVE SHEETING.

## GENERAL NOTES

### 1. MAINTENANCE:

THE CONTRACTOR SHALL MAINTAIN ALL SIGNS AND DEVICES IN AN UPRIGHT POSITION. THE CONTRACTOR SHALL CLEAN OR REPLACE ANY DAMAGED OR ILLEGIBLE SIGN OR DEVICE AS DIRECTED BY THE ENGINEER.

### 2. EXISTING SIGNS:

IF EXISTING SIGNS THAT ARE TO REMAIN (WHETHER DENOTED ON THE PLANS OR NOT) INTERFERE WITH CONSTRUCTION WORK, THE CONTRACTOR SHALL REMOVE, STORE, AND RESET THE SIGNS. THIS SHALL BE SUBSIDIARY TO OTHER TRAFFIC CONTROL BID ITEMS. SIGNING DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

### 3. CONFLICTING SIGNS, SIGNS NOT IN USE, AND TRAFFIC SIGNALS:

SIGNS AND TRAFFIC SIGNALS THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN OR DO NOT APPLY TO THE TRAFFIC OPERATIONS SHALL BE IMMEDIATELY REMOVED, TURNED SO NOT VISIBLE TO TRAFFIC FROM ANY DIRECTION, OR COMPLETELY COVERED WITH ADEQUATE OPAQUE BREATHABLE MATERIAL. TAPE SHALL NOT BE APPLIED TO THE FACE OF THE SIGN.

### 4. PORTABLE AND POST MOUNTED SIGNS:

TEMPORARY TRAFFIC CONTROL SIGNS THAT ARE ANTICIPATED TO REMAIN IN PLACE FOR 3 DAYS OR LESS ARE CONSIDERED "PORTABLE." PORTABLE SIGNS SHALL BE MOUNTED ON AN APPROVED SUPPORT AT A MINIMUM HEIGHT OF 12" ABOVE THE TRAVELED WAY. TRAFFIC CONTROL SIGNS IN PLACE FOR OVER 3 DAYS ARE REQUIRED TO BE MOUNTED ON APPROVED POSTS. A MINIMUM OF 42" OF THE APPROVED POST MUST BE BELOW THE GROUND SURFACE WITH ADEQUATE BACKFILL AND COMPACTION. ALL POSTS AT MINIMUM SHALL EXTEND TO THE TOP EDGE OF THE SIGN AND NO GREATER THAN 6" ABOVE THE SIGN.

WHEN THE SIGN WIDTH IS EQUAL TO OR GREATER THAN 9', THREE OR MORE WOOD POSTS MAY BE USED WITH A MINIMUM OF 4' BETWEEN THE CENTERLINE OF EACH POST. ALL SIGNS LESS THAN 9' IN WIDTH SHALL USE A MAXIMUM OF TWO WOOD POSTS.

"ROLL-UP" SIGNS MAY BE USED FOR PORTABLE WARNING SIGNS. THEY MUST BE FLUORESCENT ORANGE ASTM TYPE IV SIGNS OF OPAQUE MATERIAL. MESH SIGNS ARE NOT ALLOWED.

IN THE CASE OF HITTING ROCK WHEN DRIVING POSTS

1. SHIFT THE SIGN LOCATION. DO NOT VIOLATE MINIMUM SIGN SPACING.
2. WITH THE ENGINEER'S APPROVAL, USE ACCEPTABLE ALTERNATIVE SIGN STANDS.

### 5. SHEETING:

ALL ORANGE SIGNS SHALL HAVE FLUORESCENT ORANGE ASTM TYPE IV SHEETING. ALL OTHER SIGNS SHALL HAVE ASTM TYPE III SHEETING OF STANDARD COLORS.

### 6. SIGNS INVOLVING SPEEDS:

THE W3-5 (SPEED REDUCTION) SHOULD BE USED ONLY IF THE ENGINEER DETERMINES THAT A REDUCED SPEED IS REQUIRED ON THE PROJECT.

THE KM4-20 (WORK ZONE) PLAQUE SHALL BE PLACED ABOVE ALL SPEED LIMIT SIGNS, (R2-1), EXISTING AND TEMPORARY. MOUNT THE WORK ZONE PLAQUES TO THE POST. DO NOT OVERLAP THE R2-1 AND KM4-20 SIGNS.

FOR SPEEDS OF 30 MPH OR LESS, THE W1-1(TURN) OR W1-3(REVERSE TURN) SHOULD BE USED. FOR SPEEDS OF 35 MPH OR MORE, THE W1-2(CURVE) OR W1-4(REVERSE CURVE) SHOULD BE USED. THE W13-1(MPH) IS TO BE ELIMINATED IF THE ADVISORY SPEED IS WITHIN 5 MPH OF THE SPEED LIMIT.

### 7. SIGNS CONTROLLING WORK ZONE:

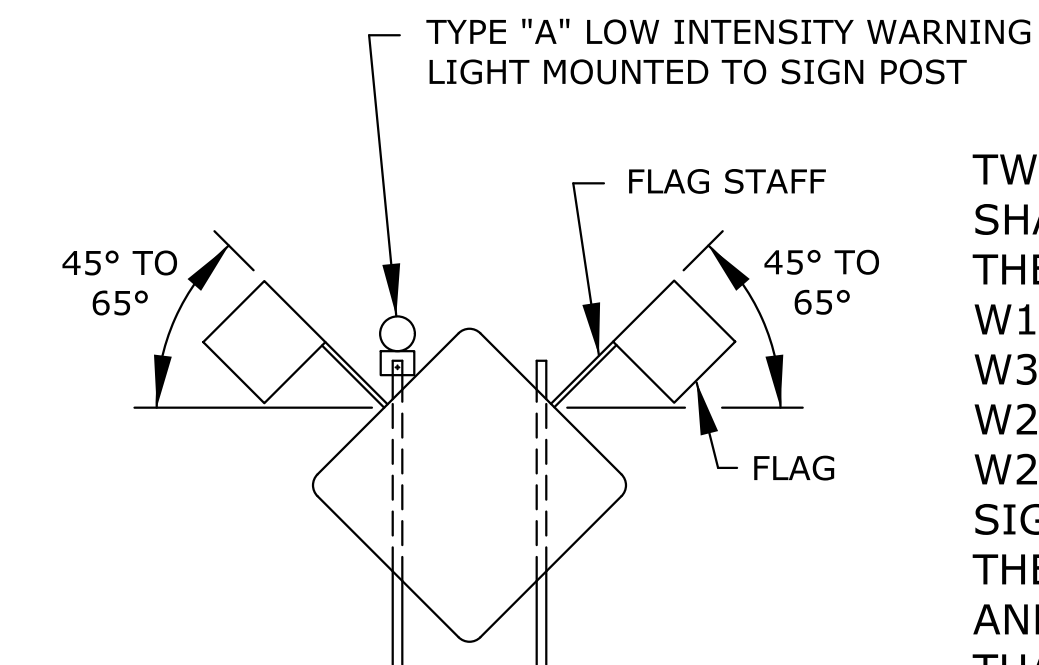
THE KG20-2(END ROAD WORK) SHOULD BE PLACED 500' FROM THE END OF THE ACTUAL WORK SPACE, NOT NECESSARILY AT THE EXTREME LIMITS OF THE PROJECT. THE KG20-2 SHOULD BE MOUNTED ON TWO POSTS. THE KG20-2 MAY BE MOUNTED ON ONE POST IF IN URBAN AREAS WHERE UTILITIES ARE A PROBLEM AND WIND LOADS ARE NOT AN ISSUE.

WHERE TWO WORK ZONES ARE LESS THAN 1 MILE APART IN RURAL AREAS OR ¼ MILE APART IN URBAN AREAS, THE KG20-2(END ROAD WORK) FOR THE FIRST WORK ZONE AND THE W20-1(ROAD WORK) FOR THE SECOND WORK ZONE SHOULD BE ELIMINATED.

### 8. WARNING LIGHTS ON SIGNS:

A TYPE "A" LOW INTENSITY WARNING LIGHT IS AN L.E.D. BI-DIRECTIONAL FLASHING WORK ZONE WARNING LIGHT. TYPE "A" LOW INTENSITY WARNING LIGHTS SHOULD BE USED WITH ALL CONSTRUCTION ACTION WARNING SIGNS AND SHALL NOT BE USED ON SIGNS MOUNTED LESS THAN 5' HIGH ON TEMPORARY SUPPORTS. ON ALL OTHER CONSTRUCTION WARNING SIGNS, TYPE "A" LOW INTENSITY WARNING LIGHTS ARE TO BE USED AS DIRECTED BY THE ENGINEER.

TYPE "A" LOW INTENSITY WARNING LIGHTS SHALL BE MAINTAINED SO AS TO BE CAPABLE OF BEING VISIBLE ON A CLEAR NIGHT FROM A DISTANCE OF 3000 FT. IF A TYPE "A" LOW INTENSITY WARNING LIGHT HAS A SEPARATE BATTERY CASE, THE BATTERY CASE SHALL BE MOUNTED NO HIGHER THAN 12" ABOVE THE GROUND AND MOUNTED BEHIND THE SIGN POST. A TYPE "A" LOW INTENSITY WARNING LIGHT WHERE THE LENS AND BATTERY ARE ONE UNIT SHALL BE MOUNTED ON THE TEMPORARY SIGN POST NEAREST TO THE TRAVELED WAY. FLAGS SHALL NOT INTERFERE WITH THE VISIBILITY OF THE TYPE "A" LOW INTENSITY WARNING LIGHT.



TWO (2) 18" x 18" FLUORESCENT RED-ORANGE FLAGS SHALL BE ATTACHED (IN THE POSITION SHOWN) ON THE W20-2(DETOUR), W1-1(TURN), W1-2(CURVE), W1-3(REVERSE TURN), W1-4(REVERSE CURVE), W3-3(SIGNAL AHEAD), W4-2(LANE REDUCTION), W20-4(ONE LANE ROAD), W20-5(LANE CLOSED), W20-7A(FLAGS), AND W3-4 (BE PREPARED TO STOP) SIGNS AND ANY OTHER ACTION SIGNS AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. THE FLAGS AND STAFFS ARE TO BE ATTACHED IN SUCH A MANNER THAT THE SIGN WILL NOT BE OBSCURED. THE FLAGS MAY BE EITHER A CLOTH OR VINYL MATERIAL. THE FLAGS SHALL BE SUBSIDIARY TO THE CONSTRUCTION SIGN BID ITEMS.

### MINIMUM ADVANCE WARNING SIGN SPACING (IN FEET):

	A	B	C
URBAN (40 MPH OR LOWER)	100	100	100
URBAN (45 MPH OR HIGHER)	350	350	350
RURAL (55 MPH OR LOWER)	500	500	500
RURAL (60 MPH OR HIGHER)	750	750	750
EXPRESSWAY/FREEWAY	1000	1500	2640

THE MINIMUM SPACING BETWEEN SIGNS SHALL BE NO LESS THAN 100', UNLESS DIRECTED BY THE ENGINEER.

THE SPACING BETWEEN ANY SIGNS MAY BE INCREASED BEYOND THE MINIMUM VALUES IN THE TABLE ABOVE AS APPROVED BY THE ENGINEER IN ORDER TO MAXIMIZE VISIBILITY.

Plotted : 24-OCT-2012 07:53

Traffic

Drawn By : jmadrid  
File : te710.dgn

3	10/16/12	Removed Note 9, Modified Sign Layout Detail	J.A.M.	K.P.
2	10/4/11	Modified Note 3	J.A.M.	K.P.
1	2/24/10	Modified AFAD Note	J.A.M.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNS

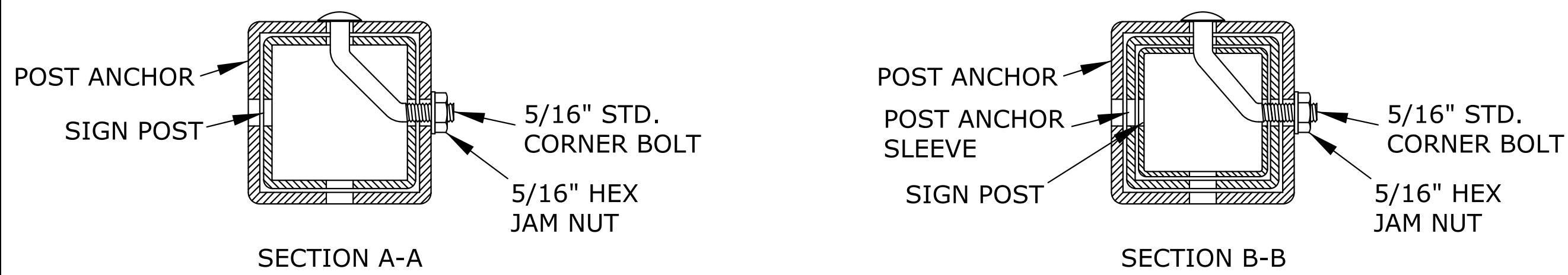
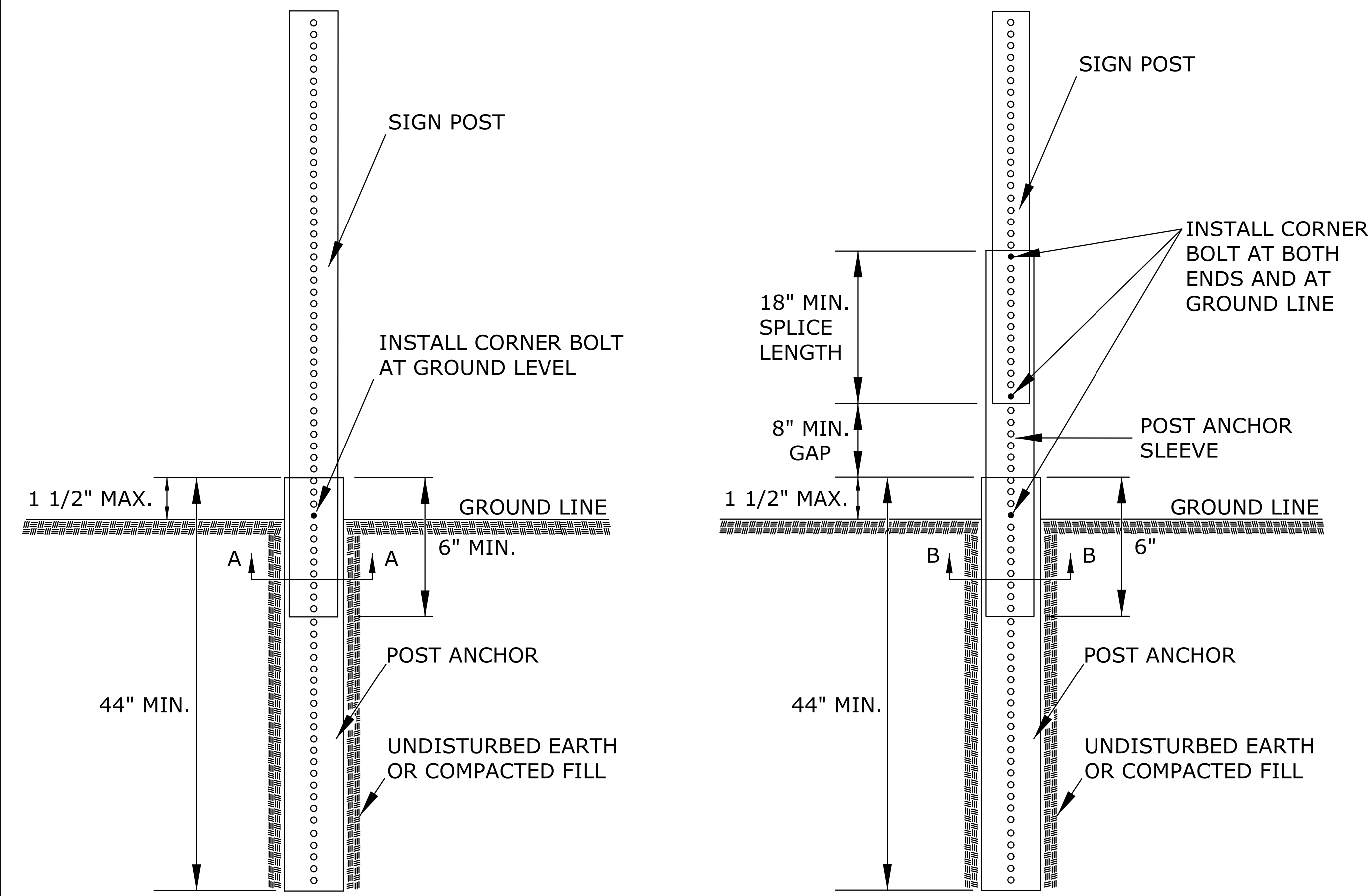
TE710

DESIGNED	B.A.H.	DETAILED	10/16/12	APP'D	Kristina Pyle
DESIGN CK.		DETAIL CK.		QUANTITIES	TRACED
				QUAN. CK.	TRACE CK.

KDOT Graphics Certified 10-23-2012

Sh. No. XXX

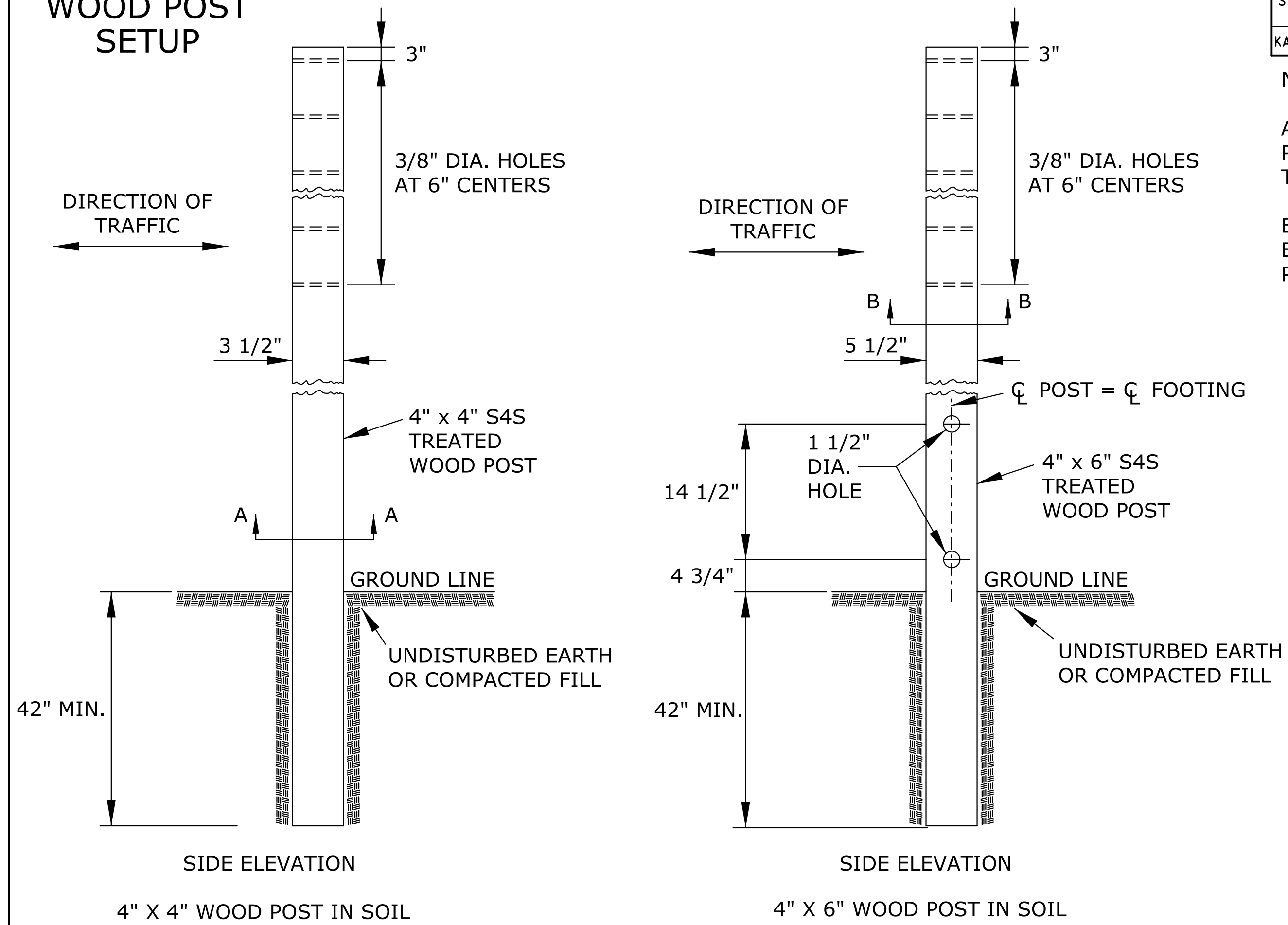
# PERFORATED SQUARE STEEL TUBE (P.S.S.T.) POST SETUP



DETAILS FOR 2", 2 1/4", OR 2 1/2" SIGN POST

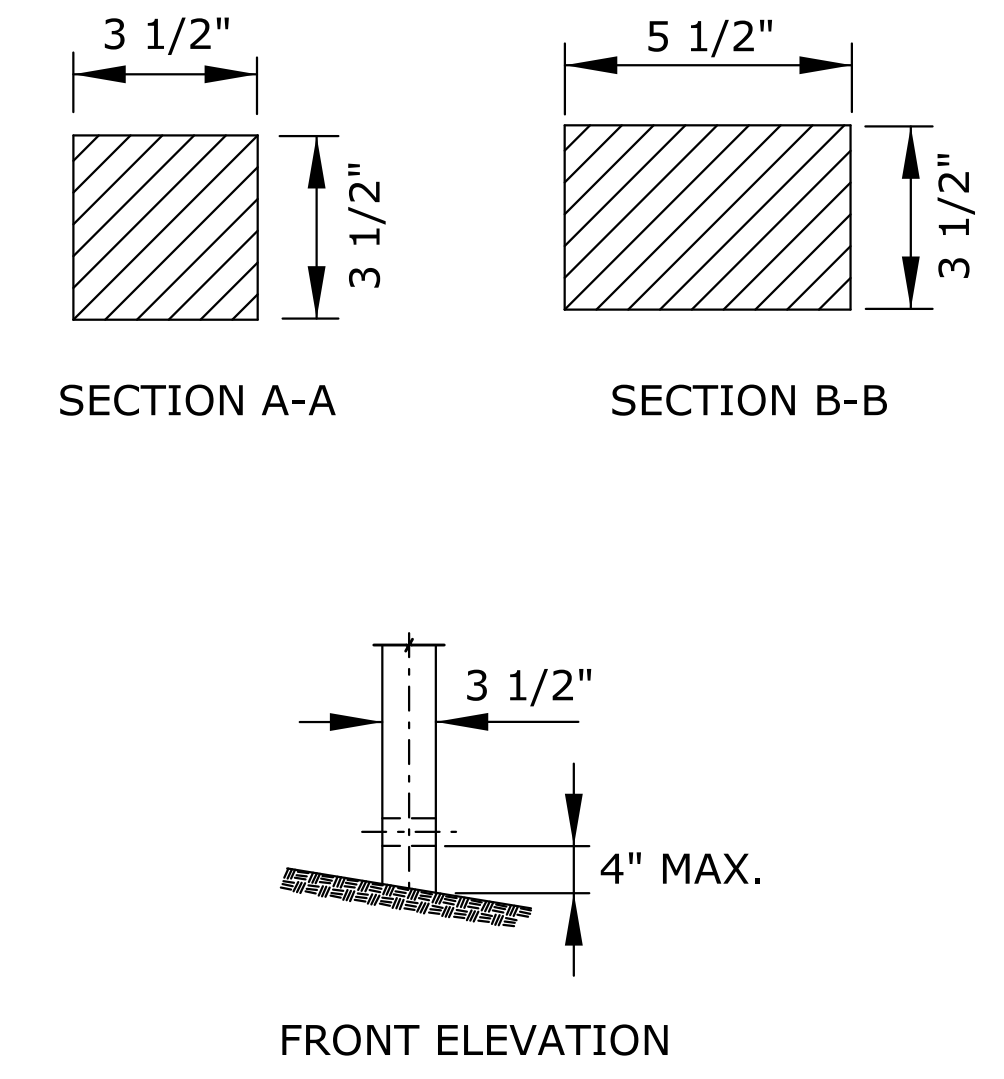
PLACE BOLTS IN THE SAME CORNER ALONG EACH SIGN POST.

# WOOD POST SETUP

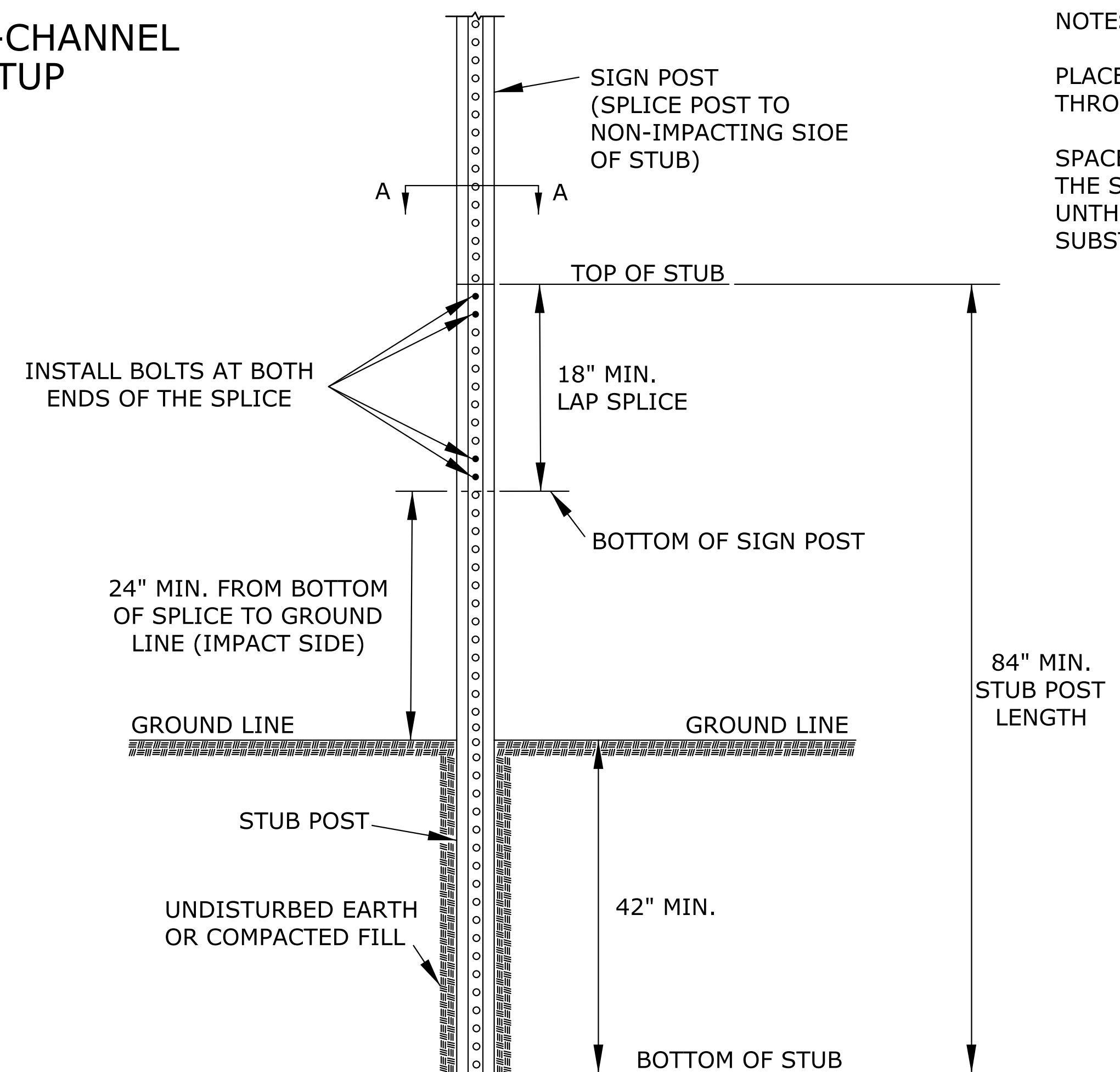


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

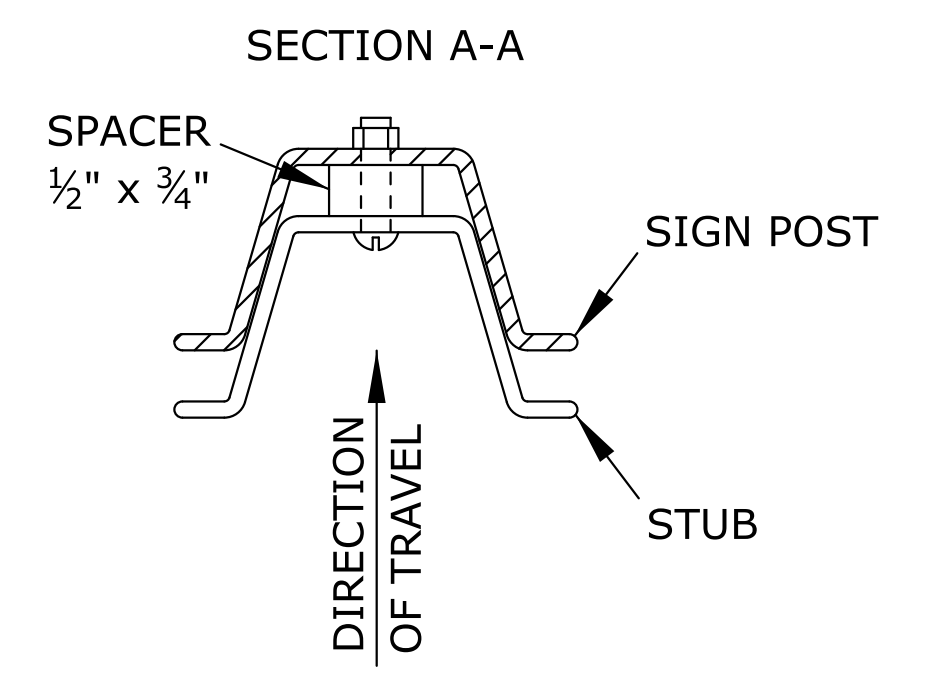
NOTES:  
ALL SIGN MOUNTING HOLES IN THE WOOD POSTS SHALL BE DRILLED PRIOR TO TREATING.  
BREAKAWAY HOLES AND FIELD CUTS SHALL BE TREATED IN ACCORDANCE WITH THE PRESERVATIVE TREATMENT SPECIFICATIONS.



# 3 LB/F U-CHANNEL SETUP



NOTES:  
PLACE TWO BOLTS AT BOTH ENDS OF THE SPLICE THROUGH THE HOLES NEAREST THE ENDS OF THE SPLICE.  
SPACERS WILL BE USED OVER THE BOLTS BETWEEN THE SPLICED PIECES OF U-CHANNEL. THREADED OR UNTHREADED SPACERS MAY BE USED. DO NOT SUBSTITUTE PIPE OR OTHER "ITEMS" FOR THE SPACERS.



3	10/16/12	Added Spacer Dimension, Removed PSST Note	J.A.M.	K.P.
2	10/4/11	Removed Washer On PSST Detail	J.A.M.	K.P.
1	6/1/10	Modified Post Anchor Sleeve Dimension	J.A.M.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

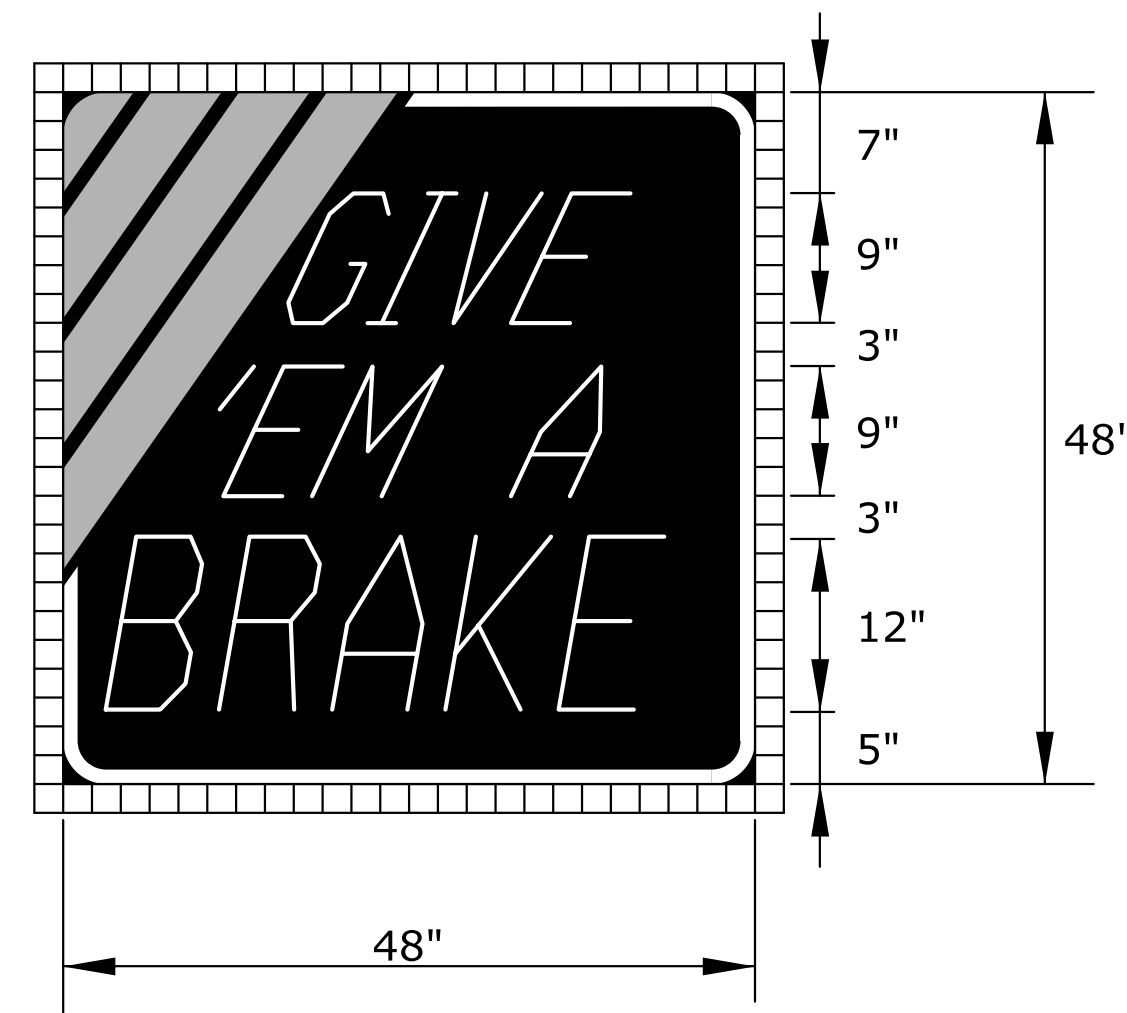
APPROVED TEMPORARY POST SETUPS

TE712

DESIGNED	B.A.H.	DETAILED	10/16/12	APP'D	Kristina Pyle
DESIGN CK.	DETAIL CK.	QUAN. CK.	QUAN. CK.	TRACE CK.	TRACE CK.

Plotted : 24-OCT-2012 07:53 Traffic  
Drawn By : jmadrid  
File : te712.dgn

### HEIGHT AND LATERAL DIMENSIONS FOR GROUND MOUNTED SIGNS (SIGNS LEFT IN PLACE OVER 3 DAYS)

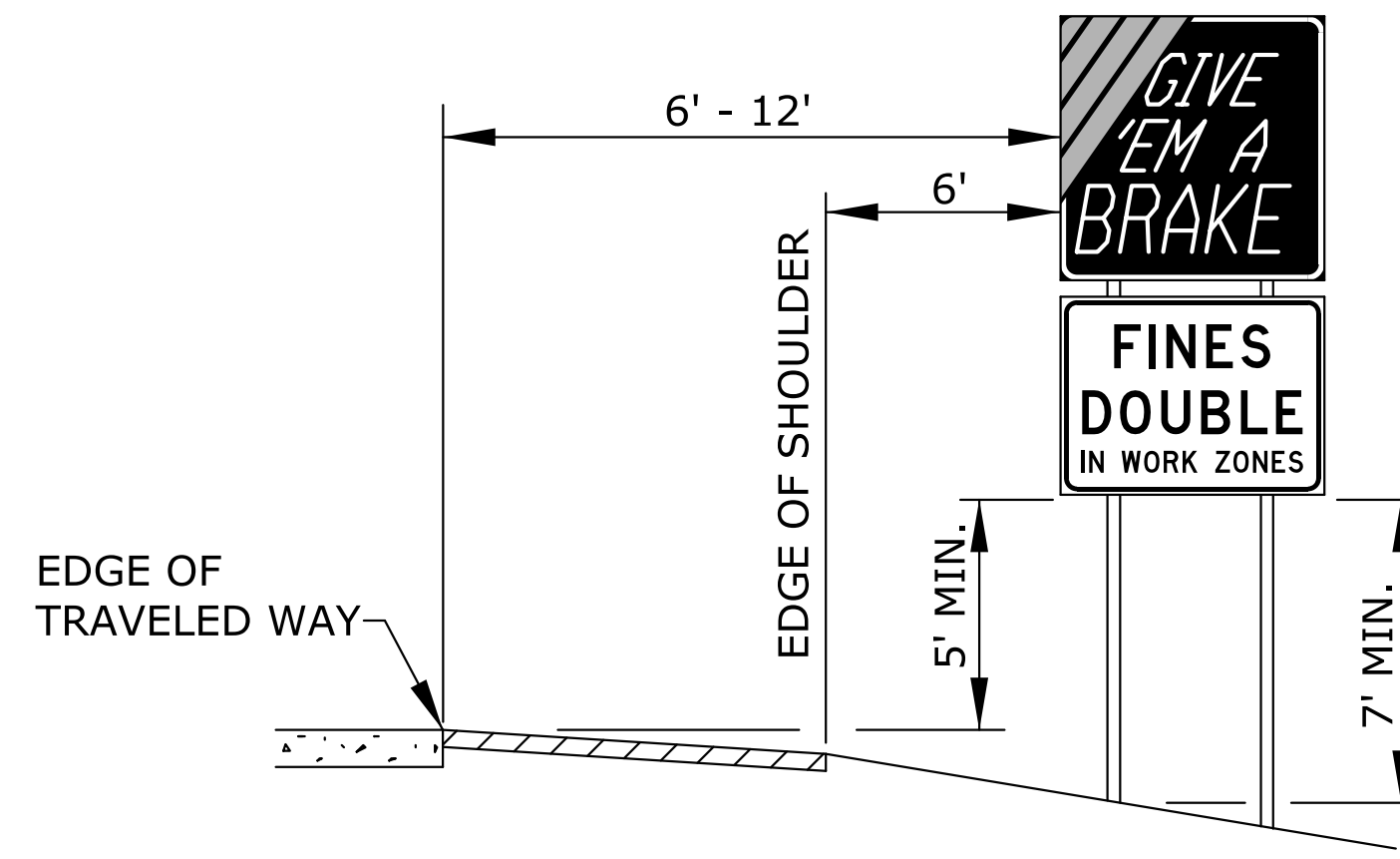


KI-104a

COLORS:  
 BACKGROUND - BLACK  
 BORDER - WHITE  
 LEGEND - WHITE  
 STRIPES - ORANGE

BORDER WIDTH - 1"  
 CORNER RADIUS - 4"  
 STRIPE WIDTH - 3"

LEGEND:  
 " GIVE " - DUTCH 801 ROMAN SWC - 25 DEGREE SLANT  
 " 'EM A " - DUTCH 801 ROMAN SWC - 25 DEGREE SLANT  
 " BRAKE " - DUTCH 801 ROMAN SWC - 10 DEGREE SLANT



### HEIGHT AND LATERAL PLACEMENT

NOTE:  
 IF THERE IS NO SHOULDER, THE SIGN SHALL BE PLACED 6' - 12' FROM THE EDGE OF TRAVELED WAY AND NOT LESS THAN 6' FROM THE EDGE OF PAVED SHOULDER. SIGNS SHALL NOT OVERLAP EACH OTHER.

NOTES:

THE SIGN BLANK MATERIAL SHALL BE ALUMINUM, WOOD, OR FIBERGLASS REINFORCED PLASTIC.

THE ORANGE PORTION OF THE KI-104a SIGN SHALL BE ASTM TYPE IV SHEETING. THE WHITE PORTION SHALL BE ASTM TYPE III SHEETING.

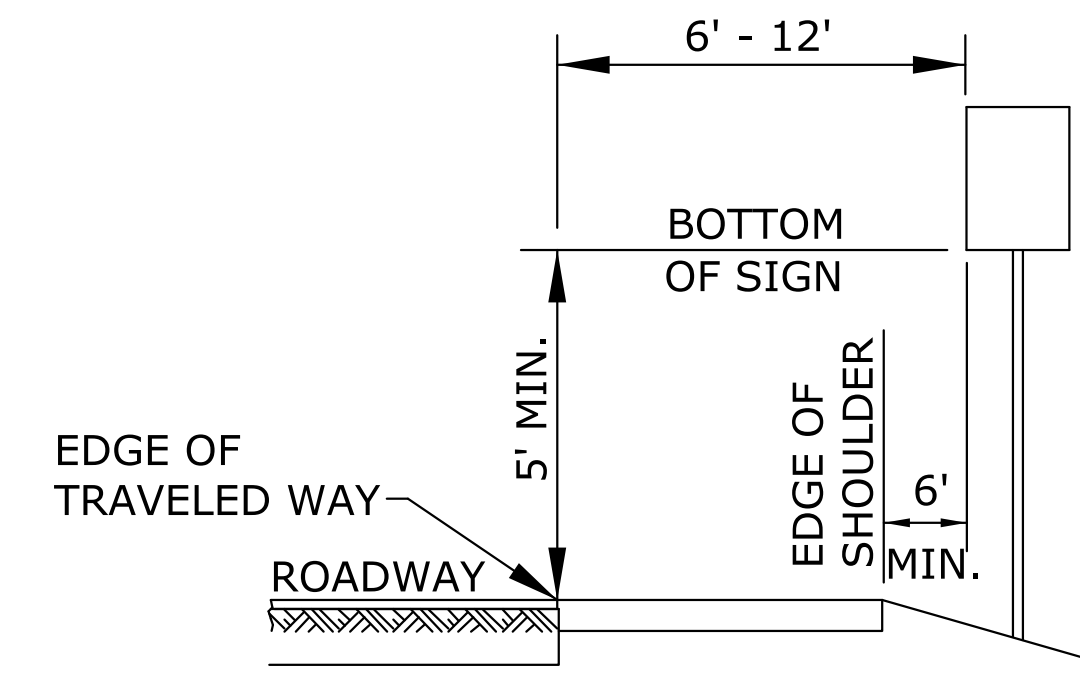
THE KI-105a SIGN FACE SHALL BE COVERED WITH ASTM TYPE III SHEETING.

THE SIGNS ARE TO BE MOUNTED ON CRASHWORTHY SUPPORTS, BRACING, GUY WIRES AND TIE-DOWNS ARE NOT ALLOWED.

TYPICALLY, THERE ARE TWO SETS OF INFORMATIONAL SIGNS INSTALLED PER PROJECT: ONE FOR EACH DIRECTION OF TRAFFIC.

INSTALL SIGNS A MINIMUM OF 250' IN ADVANCE OF THE ROAD WORK AHEAD SIGN. THE ENGINEER MAY DESIGNATE A MORE APPROPRIATE LOCATION IF CONDITIONS DICTATE.

THE INFORMATIONAL SIGNS ARE NOT TO INTERFERE WITH THE TRAFFIC CONTROL SIGNS FOR THE PROJECT.



### RURAL DISTRICT

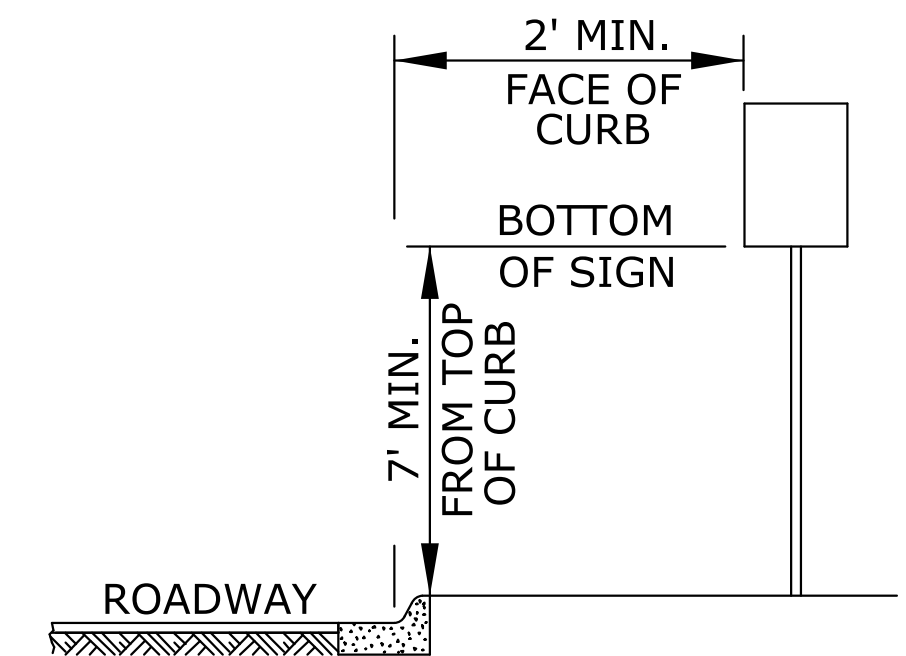
RURAL:

1) GROUND-MOUNTED SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' MEASURED FROM THE BOTTOM OF SIGN TO THE NEAR EDGE OF THE PAVEMENT.

2) LARGE SIGNS HAVING AN AREA EXCEEDING 50 SQUARE FEET INSTALLED ON MULTIPLE BREAKAWAY POSTS SHALL BE MOUNTED A MINIMUM OF 7' ABOVE THE GROUND.

\* 3) THE HEIGHT OF THE SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE 4' MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. SIGNS SHALL NOT OVERLAP EACH OTHER.

4) SIGN SUPPORTS SHALL BE CRASHWORTHY.



### URBAN DISTRICT

URBAN:

1) SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 7' MEASURED FROM THE BOTTOM OF SIGN TO THE NEAR EDGE OF THE PAVEMENT.

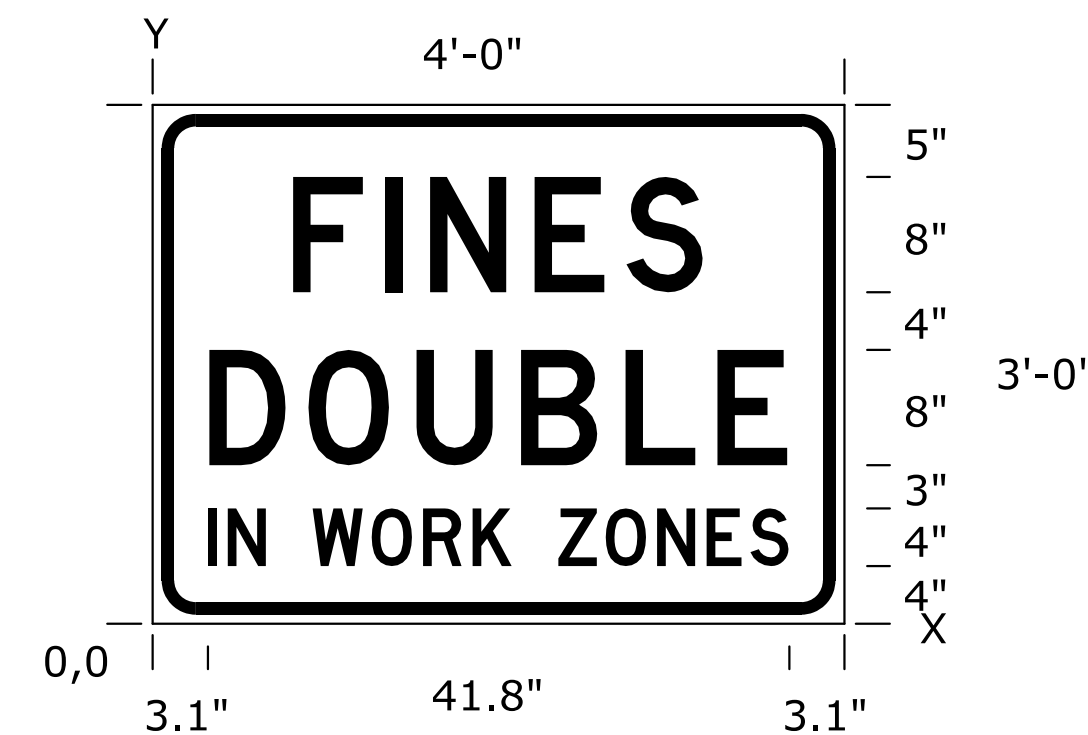
2) NEITHER PORTABLE NOR PERMANENT SIGN SUPPORTS SHOULD BE LOCATED ON SIDEWALKS OR AREAS DESIGNATED FOR PEDESTRIAN OR BICYCLE TRAFFIC.

3) SIGNS MOUNTED LOWER THAN 7' SHOULD NOT PROJECT MORE THAN 4" INTO PEDESTRIAN FACILITIES.

\* 4) THE HEIGHT FROM OF THE SECONDARY SIGN MOUNTED BELOW ANOTHER SIGN MAY BE 6' MEASURED FROM THE BOTTOM OF SIGN TO THE NEAR EDGE OF THE PAVEMENT. SIGNS SHALL NOT OVERLAP EACH OTHER.

5) LARGE SIGNS HAVING AN AREA EXCEEDING 50 SQUARE FEET INSTALLED ON MULTIPLE BREAKAWAY POSTS SHALL BE MOUNTED A MINIMUM OF 7' ABOVE THE GROUND.

6) SIGN SUPPORTS SHALL BE CRASHWORTHY.



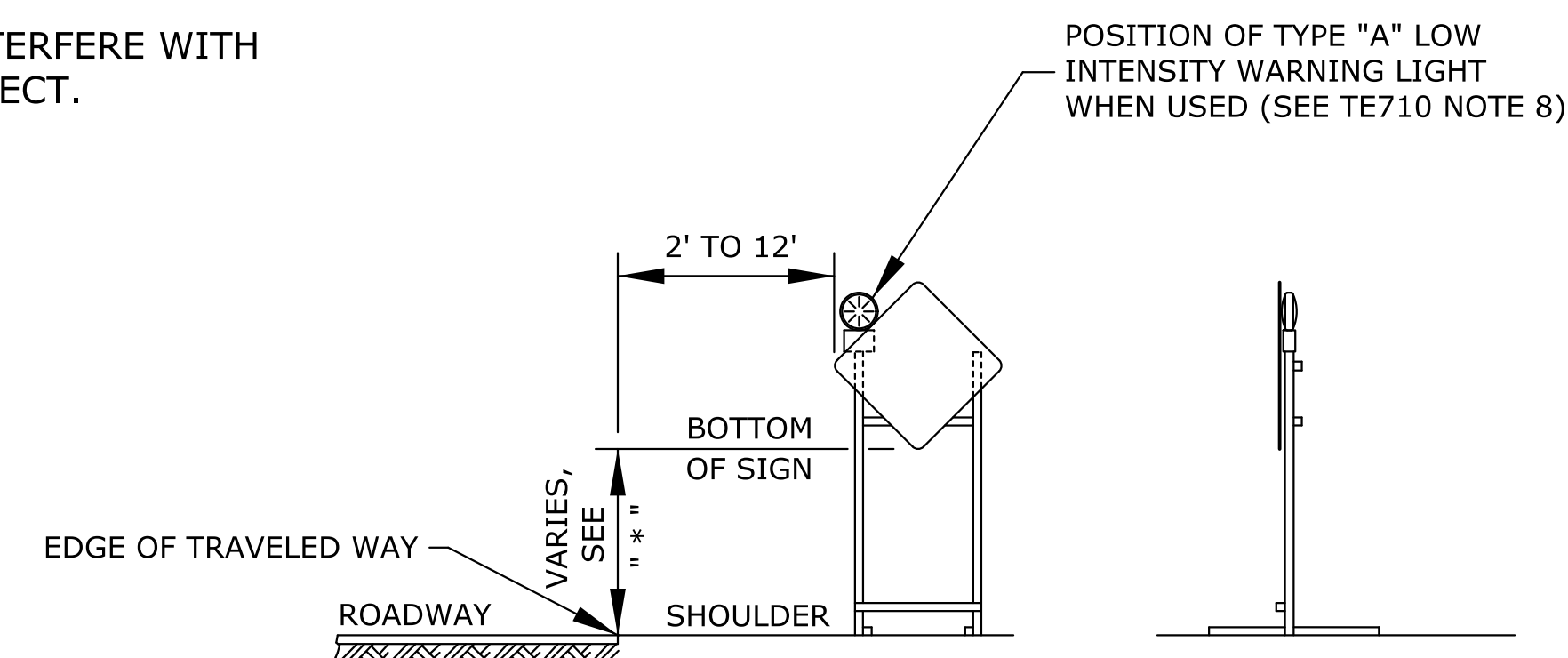
KI-105a

SIGN NUMBER	FINES DOUBLE
WIDTH x HEIGHT	4'-0" x 3'-0"
BORDER WIDTH	0.9"
CORNER RADIUS	3.0"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: WHITE
LEGEND/BORDER	TYPE: NON-REFLECTIVE
	COLOR: BLACK

DIMENSIONS IN INCHES

SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS													HT LEN		
23.0	FINE S													8.0		
D	9.7	6.4	3.2	7.3	6.4	5.4	9.7							28.6		
11.0	DOUBLE													8.0		
D	3.9	6.9	7.5	7.3	7.3	6.4	4.9	3.9						40.3		
4.0	IN WORK ZONES													4.0		
D	3.1	1.6	2.7	3.2	4.3	3.8	3.6	2.8	3.2	3.4	3.8	3.6	3.2	2.7	3.1	41.8



(SEE NOTE 4 ON TE710 FOR "ROLL-UP" SIGNS OPTION)

### HEIGHT AND LATERAL DIMENSIONS FOR SIGNS MOUNTED ON SKIDS OR OTHER SUPPORTS ON PAVEMENT

3	10/16/12	Modified Note 3 & 4 On Ground Mounted Signs	J.A.M.	K.P.
2	10/4/11	Modified Note On Skid Mounted Detail	J.A.M.	K.P.
1	6/1/10	Changed Type A Warning Light Note	J.A.M.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

### KANSAS DEPARTMENT OF TRANSPORTATION GROUND AND SKID MOUNTED DETAIL DETAILS FOR "GIVE 'EM A BRAKE" AND "FINES DOUBLE" SIGNS

TE714	10/16/12	APP'D	Kristina Pyle
DESIGNED	B.A.H.	DETAILED	B.A.H.
QUANTITIES	TRACED	QUAN. CK.	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS AND SIGN SPACING.  
REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES.  
REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.

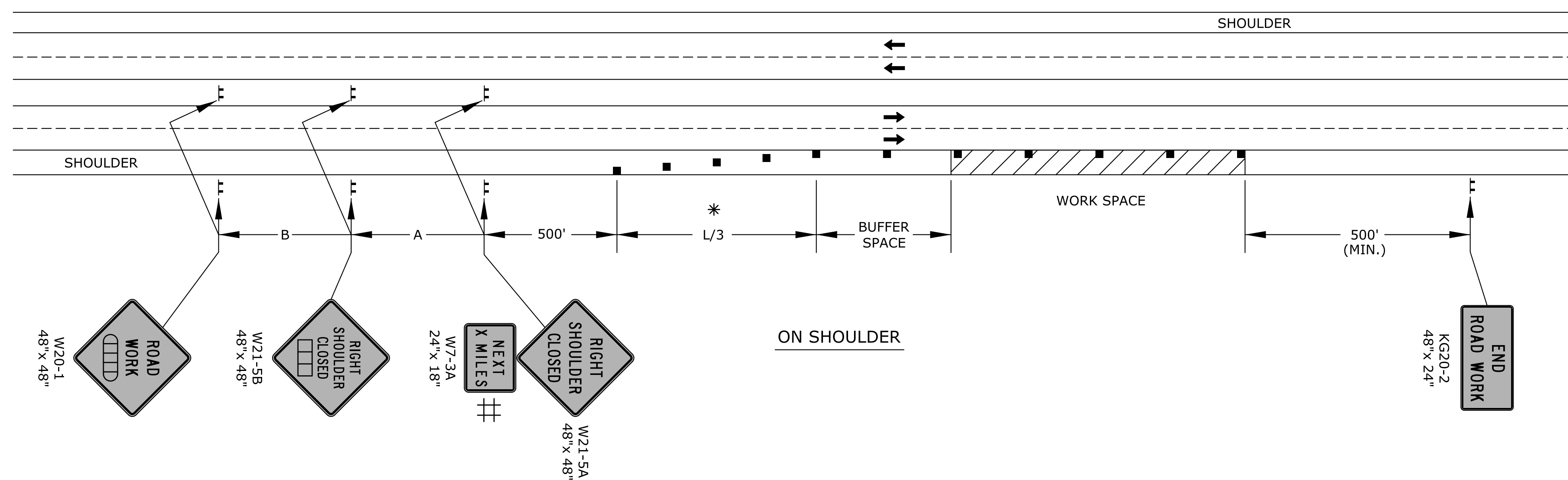
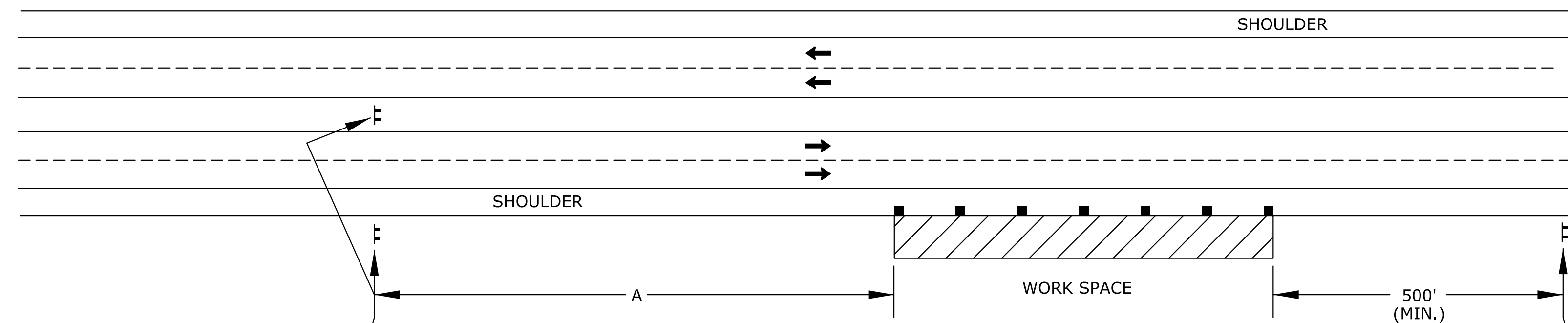
NOTES:

FOR WORK IN THE MEDIAN, INSTALL SIGNS AND CHANNELIZING DEVICES FOR EACH DIRECTION OF TRAFFIC ACCORDING TO THE APPLICABLE TYPICAL DRAWING.

NO TRAFFIC CONTROL IS REQUIRED IF THE WORK SPACE IS LOCATED OUTSIDE OF THE CLEAR ZONE.

FOR OPERATIONS OF 60 MINUTES OR LESS, ALL SIGNS AND CHANNELIZING DEVICES MAY BE ELIMINATED IF A VEHICLE WITH A HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHT IS USED.

WHEN CONCRETE BARRIER SYSTEM IS USED, PORTABLE CHANNELIZING DEVICES ARE NOT NEEDED ALONG THE TANGENT BARRIER SECTION. DELINEATION ON THE BARRIER SYSTEM IS STILL REQUIRED. SEE RD622.



# ELIMINATE W7-3A IF SHOULDER IS CLOSED FOR LESS THAN 2 MILES.

\* OMIT TAPER IF PAVED SHOULDER IS LESS THAN 8' WIDE.

- X LENGTH TO THE NEAREST WHOLE MILE
- CHANNELIZING DEVICE
- ▢ AHEAD, 1500 FT, OR 1 MILE
- ▢ AHEAD, 1000 FT, 1500 FT OR 1/2 MILE

3	10/16/12	Modified Shoulder Detail	J.A.M.	K.P.
2	4/20/09	Combined And Moved General Notes	J.A.M.	A.A.A.
1	8/8/07	G20-2 Changed To KG20-2	M.B.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION  
TYPICAL TRAFFIC CONTROL  
WORK ON OR NEAR THE SHOULDER  
DIVIDED HIGHWAY

TE722

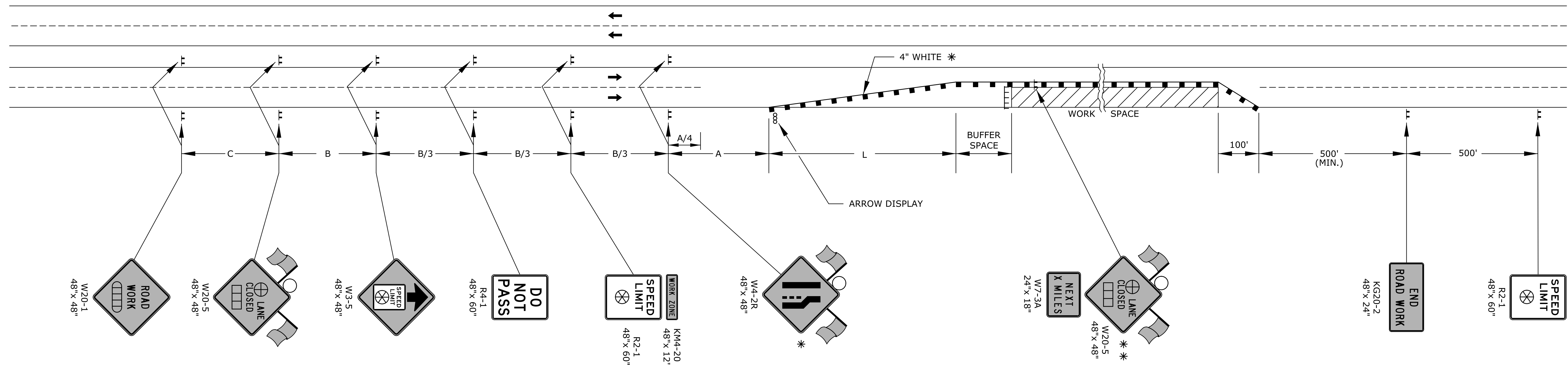
FHWA APPROVAL	10/16/12	APP'D	Kristina Pyle
DESIGNED	L.E.R./D.E.T.A.I.L.E.D.	B.A.H./Q.U.A.N.T.I.T.I.E.S.	TRACED
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.

Plotted : 24-OCT-2012 07:54  
Traffic

Drawn By : jmadrid  
File : te722.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	XX-XX XX-XXXX-XX	XXXX	XXX	XXX

REFER TO STD. TE710 FOR ADDITIONAL INFORMATION ON TEMPORARY TRAFFIC CONTROL SIGNS AND SIGN SPACING. REFER TO STD. TE704 FOR TYPE III BARRICADES. REFER TO STD. TE702 FOR INFORMATION ON TAPERS AND CHANNELIZING DEVICES. REFER TO STD. TE700 FOR LENGTH OF BUFFER SPACE.



LEFT-SIDE SIGNS SHALL BE OMITTED FOR A FOUR-LANE UNDIVIDED HIGHWAY.

\* FOR LEFT LANE CLOSURES USE W4-2L AND YELLOW EDGE LINE ALONG CHANNELIZING DEVICES.

\*\* THE W20-5 (⊕ LANE CLOSED) AND W7-3A (NEXT X MILES) SIGNS SHOULD BE PLACED AT 2 MILE INCREMENTS ON A PROJECT OF 4 MILES OR LONGER.

- ||| TYPE III BARRICADES
- X LENGTH TO THE NEAREST WHOLE MILE
- CHANNELIZING DEVICE
- ▭ AHEAD, 1500 FT, OR 1 MILE
- ▭ AHEAD, 1000 FT, 1500 FT, OR 1/2 MILE
- ⊕ RIGHT OR LEFT
- ⊗ SPEED TO BE DETERMINED BY THE ENGINEER
- TYPE "A" LOW INTENSITY WARNING LIGHT

3	8/8/07	Sign Spacing Changed	M.B.	A.A.A.
2	12/29/05	M4-20 Changed To KM4-20	M.B.	A.A.A.
1	2/1/05	Clarified Notes, Updated Warning Signs	B.H.	A.A.A.
NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION				
TYPICAL TRAFFIC CONTROL				
FOUR-LANE HIGHWAY				
ONE LANE CLOSED				
TE744				
FHWA APPROVAL	8/8/07	APP'D	Anthony Alrabalre	
DESIGNED	B.A.H.	DETAILED	B.A.H.	QUANTITIES
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACED	TRACE CK.

