

GENERAL NOTES:

- 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 NORMAL 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 RAZING 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 RESIDENT MAINTENANCE ENGINEER. SPECIFICATIONS ADOPTED BY USA 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 CONTACT 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 THESE PLANS.
- G. CONSTRUCTION TO BE IN COMPLIANCE WITH THE CITY OF BROKEN ARROW STANDARD CONSTRUCTION SPECIFICATIONS.

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 THESE 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 ITS 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 CONTEMPORARY BASIS AT THE SITE.

NOTICE TO BIDDERS:

ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR. THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

FLOOD CERTIFICATION:

THIS PROPERTY LIES IN UNSHADED ZONE "X" AND DOES NOT LOCATE WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR THE CITY OF BROKEN ARROW, WAGONER COUNTY, OKLAHOMA, COMMUNITY PANEL NUMBER 40145C0095J EFFECTIVE DATE SEPTEMBER 30, 2016.

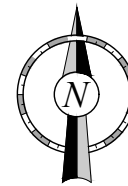
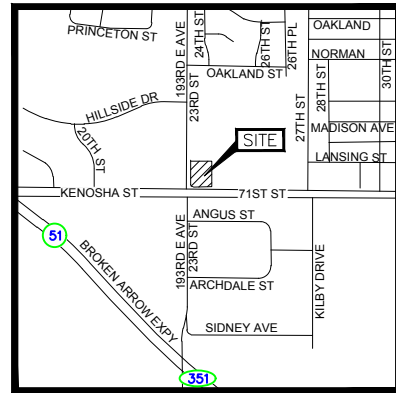
BENCHMARKS:

BM-1 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
ELEVATION=732.73'

IMPERVIOUS CALCULATIONS:

TOTAL SITE AREA: 79,070 S.F.
EXISTING IMPERVIOUS AREA: 66,376 S.F.
PROPOSED IMPERVIOUS AREA: 71,991 S.F.
TOTAL IMPERVIOUS INCREASE: 5,615 S.F.

SITE DEVELOPMENT PLANS FOR QUIKTRIP STORE #0033 2400 E. KENOSHA ST. BROKEN ARROW, OK



Vicinity Map
Not to Scale

MUNICIPAL CONTACT LIST:

CITY OF BROKEN ARROW

- | | | |
|--|--|--|
| <u>INCOG</u>
2 WEST 2ND STREET #800
TULSA, OK 74103
TEL: (918) 579-9470
FAX: (918) 583-1024
CONTACT: SUSAN MILLER | <u>DEVELOPMENT SERVICES DEPARTMENT</u>
220 S. 1ST STREET
BROKEN ARROW, OK 74012
TEL: (918) 259-2400
EXT. 5426
CONTACT: MICHAEL SKATES | <u>AEP/PSO</u>
212 E. 6TH STREET
TULSA, OK 74102
TEL: (918) 250-6211 |
| <u>CITY OF BROKEN ARROW ENGINEERING DEPARTMENT</u>
485 NORTH POPLAR AVENUE
BROKEN ARROW, OK, 74013
TEL: (918) 259-7000
EXT. 5414
CONTACT: ALEX MILLS, P.E., CFM | <u>TRANSPORTATION DEPARTMENT</u>
1500 E. JOLIET
BROKEN ARROW, OK 74012
TEL: (918) 259-4550
FAX: (918) 251-8799
CONTACT: JAMES MCNABB | <u>ONG</u>
5848 E. 15TH STREET
TULSA, OK 74112-6402
TEL: (918) 831-8259 |
| <u>CITY FIRE DEPARTMENT</u>
1101 N. 6TH STREET
BROKEN ARROW, OK 74012
TEL: (918) 259-2400 EXT. 6355
CONTACT: JEREMY MOORE | <u>CITY WATER UTILITIES</u>
220 S. 1ST STREET
BROKEN ARROW, OK 74012
TEL: (918) 259-7000 EXT. 7375
CONTACT: ANTHONY DANIEL | <u>AT&T</u>
5303 E. 71ST STREET
TULSA, OK 74136
TEL: (918) 596-6422 |
| | | <u>COX COMMUNICATIONS INC.</u>
11811 E. 51ST STREET
TULSA, OK 74145
TEL: (918) 286-4716 |

PROJECT CONTACT LIST:

- | | |
|--|--|
| <u>SURVEYOR OF RECORD</u>
SISEMORE WEISZ & ASSOCIATES, INC.
DEAN ROBINSON, P.L.S.
6111 EAST 32ND PLACE
TULSA, OKLAHOMA 74135
TEL: (918) 665-3600
FAX: (918) 665-8668 | <u>QT REAL ESTATE PROJECT MANAGER</u>
QUIKTRIP CORPORATION
CARLY GOODNIGHT
4705 SOUTH 129TH EAST AVENUE
TULSA, OKLAHOMA, 74134
TEL: (918)615-7137
EMAIL: CGOODNIG@QUIKTRIP.COM |
| <u>ENGINEER OF RECORD</u>
AAB ENGINEERING, LLC
ALAN BETCHAN, P.E. CFM
PO BOX 2136, SAND SPRINGS
OKLAHOMA, 74063
TEL: (918) 514-4283
FAX: (918) 514-4288 | <u>QT CIVIL PROJECT MANAGER</u>
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SHEET INDEX

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C100	SITE PLAN
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C111	DETAILED GRADING PLANS
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C113	ADA COMPLIANCE REFERENCE PLAN
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L100	LANDSCAPE PLAN
L110	IRRIGATION PLANS
L500	LANDSCAPE DETAILS
L510	IRRIGATION DETAILS



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REVIEWED BY:

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SHEET TITLE:
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DD# XXXXXX

SHEET NUMBER:
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1-800-522-6543

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BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
 ALUMINUM CAP
 ELEVATION=732.73'

EXISTING ITEMS

	UNDERGROUND CABLE
	OVERHEAD ELECTRIC
	GAS LINE (PLUS SIZE/TYPE ON PLANS)
	SANITARY SEWER LINE (PLUS SIZE/TYPE ON PLANS)
	WATER LINE (PLUS SIZE/TYPE ON PLANS)
	UTILITY PEDESTAL/RISER-PLUS TYPE OF UTILITY
	UTILITY POLE-PLUS TYPE OF UTILITY
	UTILITY POLE W/LIGHT
	UTILITY POLE W/TRANSFORMER
	UTILITY MANHOLE (PLUS TYPE/R'S)
	UTILITY METER (PLUS TYPE)
	UTILITY VALVE (PLUS TYPE)
	UTILITY CLEAN OUT (PLUS TYPE/SIZE)
	GUY WIRE
	LIGHT POLE (PLUS # HEADS/DIRECTION SHOWN GRAPHICALLY)
	FIRE HYDRANT
	SINGLE POST SIGN (PLUS TYPE/VERBIAGE)
	TRAFFIC SIGNAL W/MAST ARM
	TRAFFIC SIGNAL
	TRAFFIC CONTROL BOX
	MAIL BOX
	MONITOR WELL
	MPD (MULTIPLE PRODUCT DISPENSER)
	BOLLARD
	PROPERTY R/W LINE (QT NET)
	SECTION LINE
	CURB LINE
	EDGE OF ASPHALT
	EDGE OF CONCRETE
	WALL
	EXISTING STRUCTURE (PLUS MATERIAL SF, # STORIES)
	UNDERGROUND STORAGE TANK (PLUS SIZE/PRODUCT IF AVAILABLE)
	ABOVEGROUND STORAGE TANK (HORIZONTAL) (PLUS SIZE/PRODUCT IF AVAILABLE)
	ABOVEGROUND STORAGE TANK (VERTICAL) (PLUS SIZE/PRODUCT IF AVAILABLE)

EXISTING LEGEND (ITEMS TO BE REMOVED)

	WATER LINE
	SANITARY SEWER LINE
	GAS LINE
	TOP OF CURB AND GUTTER
	LIGHT POLE
	UTILITY METER
	UTILITY MANHOLE
	POWER POLE
	POWER POLE W/TRANSFORMER
	GUY WIRE
	CONCRETE (PAVEMENT/SIDEWALK)
	ASPHALT
	SANITARY SEWER CLEANOUT
	AIR CONDITIONING UNIT
	DOWN SPOUT
	MULTIPLE PRODUCT DISPENSER WITH CANOPY
	COLUMNS AND BOLLARDS

Alan Betchan
 LICENSED PROFESSIONAL ENGINEER
 OKLAHOMA

PROJECT NO.:

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 Sand Springs, OK 74063
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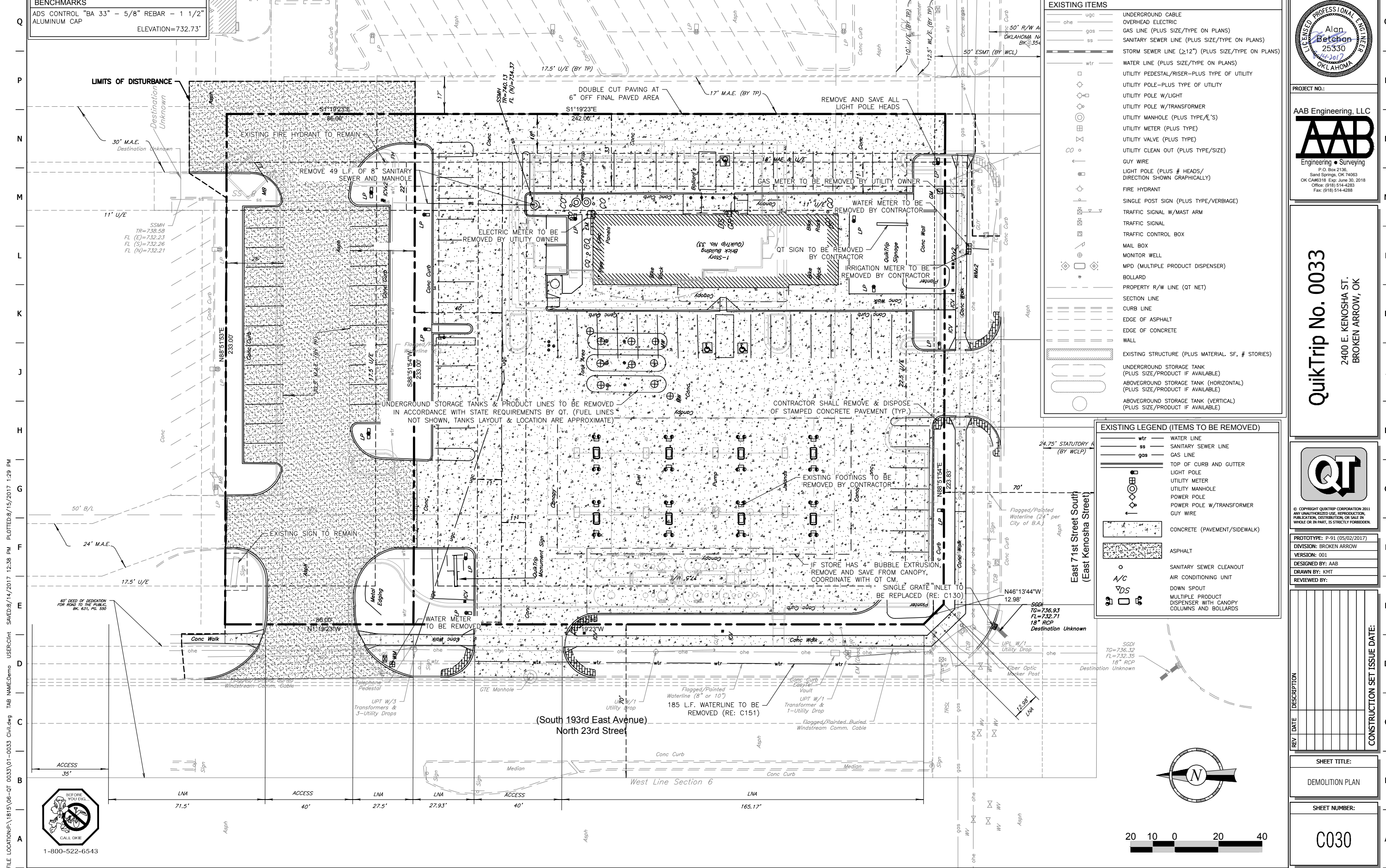
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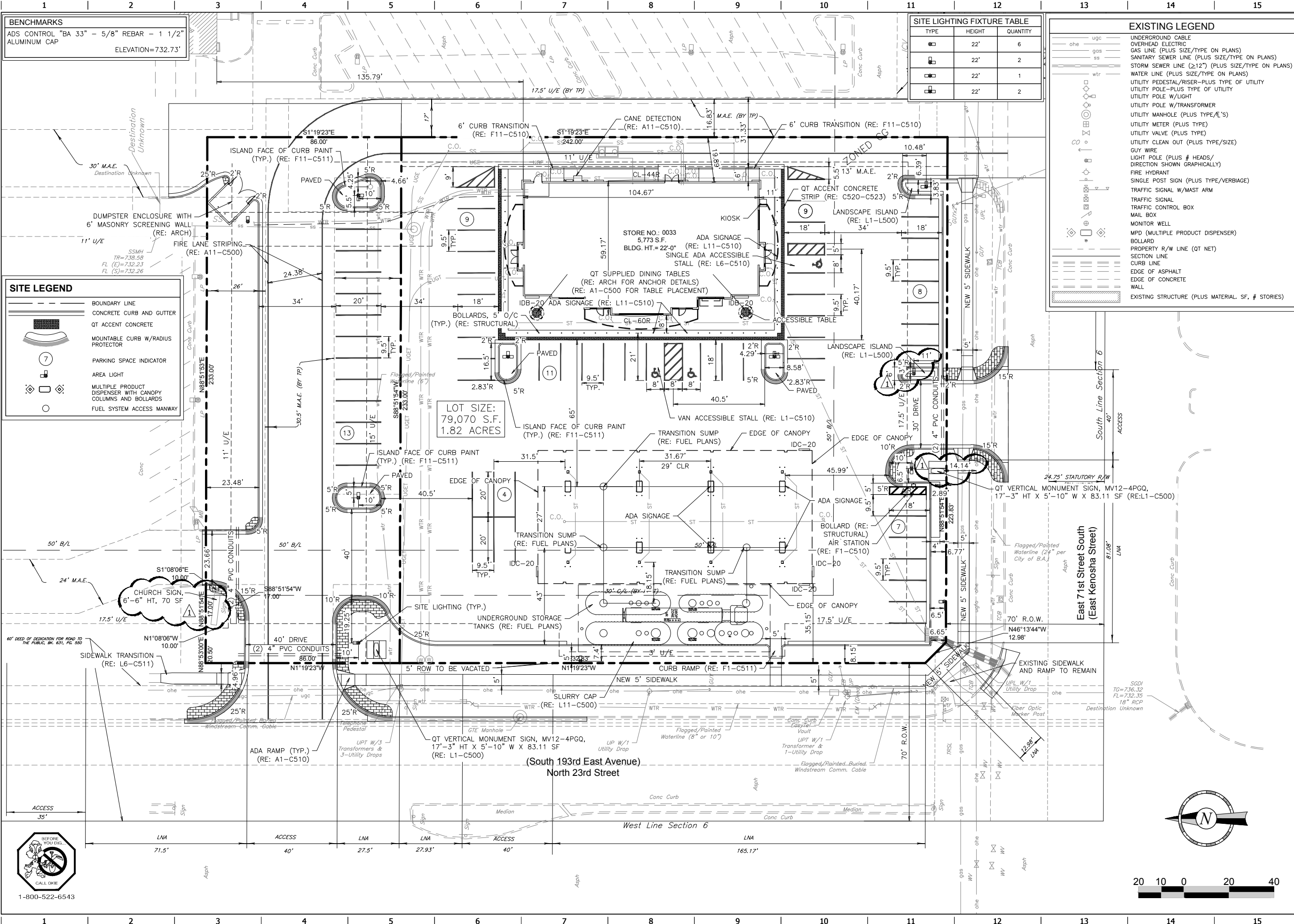
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 DEMOLITION PLAN

SHEET NUMBER:
 C030



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BENCHMARKS

ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP

ELEVATION=732.73'

SITE LIGHTING FIXTURE TABLE

TYPE	HEIGHT	QUANTITY
	22'	6
	22'	2
	22'	1
	22'	2

EXISTING LEGEND

	UNDERGROUND CABLE
	OVERHEAD ELECTRIC
	GAS LINE (PLUS SIZE/TYPE ON PLANS)
	SANITARY SEWER LINE (PLUS SIZE/TYPE ON PLANS)
	STORM SEWER LINE (>12") (PLUS SIZE/TYPE ON PLANS)
	WATER LINE (PLUS SIZE/TYPE ON PLANS)
	UTILITY PEDESTAL/RISER-PLUS TYPE OF UTILITY
	UTILITY POLE-PLUS TYPE OF UTILITY
	UTILITY POLE W/TRANSFORMER
	UTILITY MANHOLE (PLUS TYPE/RE'S)
	UTILITY METER (PLUS TYPE)
	UTILITY VALVE (PLUS TYPE)
	UTILITY CLEAN OUT (PLUS TYPE/SIZE)
	GUY WIRE
	LIGHT POLE (PLUS # HEADS/DIRECTION SHOWN GRAPHICALLY)
	FIRE HYDRANT
	SINGLE POST SIGN (PLUS TYPE/VERBIAGE)
	TRAFFIC SIGNAL W/MAST ARM
	TRAFFIC SIGNAL
	TRAFFIC CONTROL BOX
	MAIL BOX
	MONITOR WELL
	MPD (MULTIPLE PRODUCT DISPENSER)
	BOLLARD
	PROPERTY R/W LINE (QT NET)
	SECTION LINE
	CURB LINE
	EDGE OF ASPHALT
	EDGE OF CONCRETE
	WALL
	EXISTING STRUCTURE (PLUS MATERIAL, SF, # STORIES)

SITE LEGEND

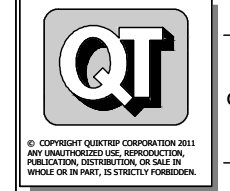
	BOUNDARY LINE
	CONCRETE CURB AND GUTTER
	QT ACCENT CONCRETE
	MOUNTABLE CURB W/RADIUS PROTECTOR
	PARKING SPACE INDICATOR
	AREA LIGHT
	MULTIPLE PRODUCT DISPENSER WITH CANOPY COLUMNS AND BOLLARDS
	FUEL SYSTEM ACCESS MANWAY



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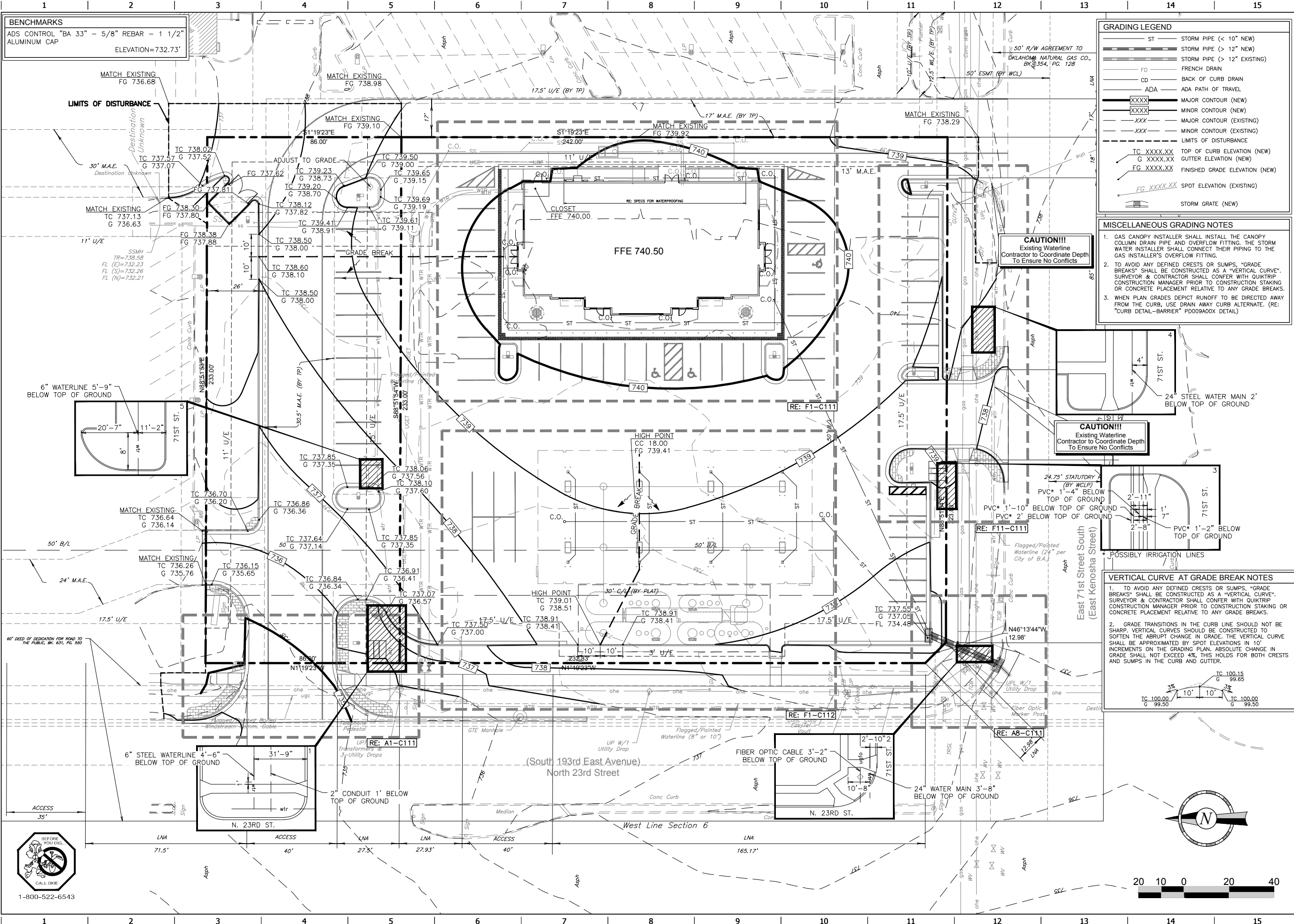
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SHEET NUMBER: C100

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BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
 ELEVATION=732.73'

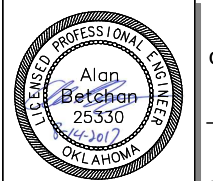
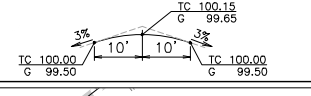
GRADING LEGEND	
ST	STORM PIPE (< 10" NEW)
ST	STORM PIPE (> 12" NEW)
ST	STORM PIPE (> 12" EXISTING)
FD	FRENCH DRAIN
CD	BACK OF CURB DRAIN
ADA	ADA PATH OF TRAVEL
XXXX	MAJOR CONTOUR (NEW)
XXXX	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (EXISTING)
---	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
SG	STORM GRATE (NEW)

- MISCELLANEOUS GRADING NOTES**
1. 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.
 2. 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.
 3. WHEN PLAN GRADES DEPIC RUNOFF TO BE DIRECTED AWAY FROM THE CURBS, USE DRAIN AWAY CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" P009A00X DETAIL)

CAUTION!!!
 Existing Waterline
 Contractor to Coordinate Depth
 To Ensure No Conflicts

CAUTION!!!
 Existing Waterline
 Contractor to Coordinate Depth
 To Ensure No Conflicts

- VERTICAL CURVE AT GRADE BREAK NOTES**
1. 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.
 2. GRADE TRANSITIONS IN THE CURB LINE SHOULD NOT BE SHARP. VERTICAL CURVES SHOULD BE CONSTRUCTED TO SOFTEN THE ABRUPT CHANGE IN GRADE. THE VERTICAL CURVE SHALL BE APPROXIMATED BY SPOT ELEVATIONS IN 10' INCREMENTS ON THE GRADING PLAN. ABSOLUTE CHANGE IN GRADE SHALL NOT EXCEED 4%. THIS HOLDS FOR BOTH CRESTS AND SUMPS IN THE CURB AND GUTTER.



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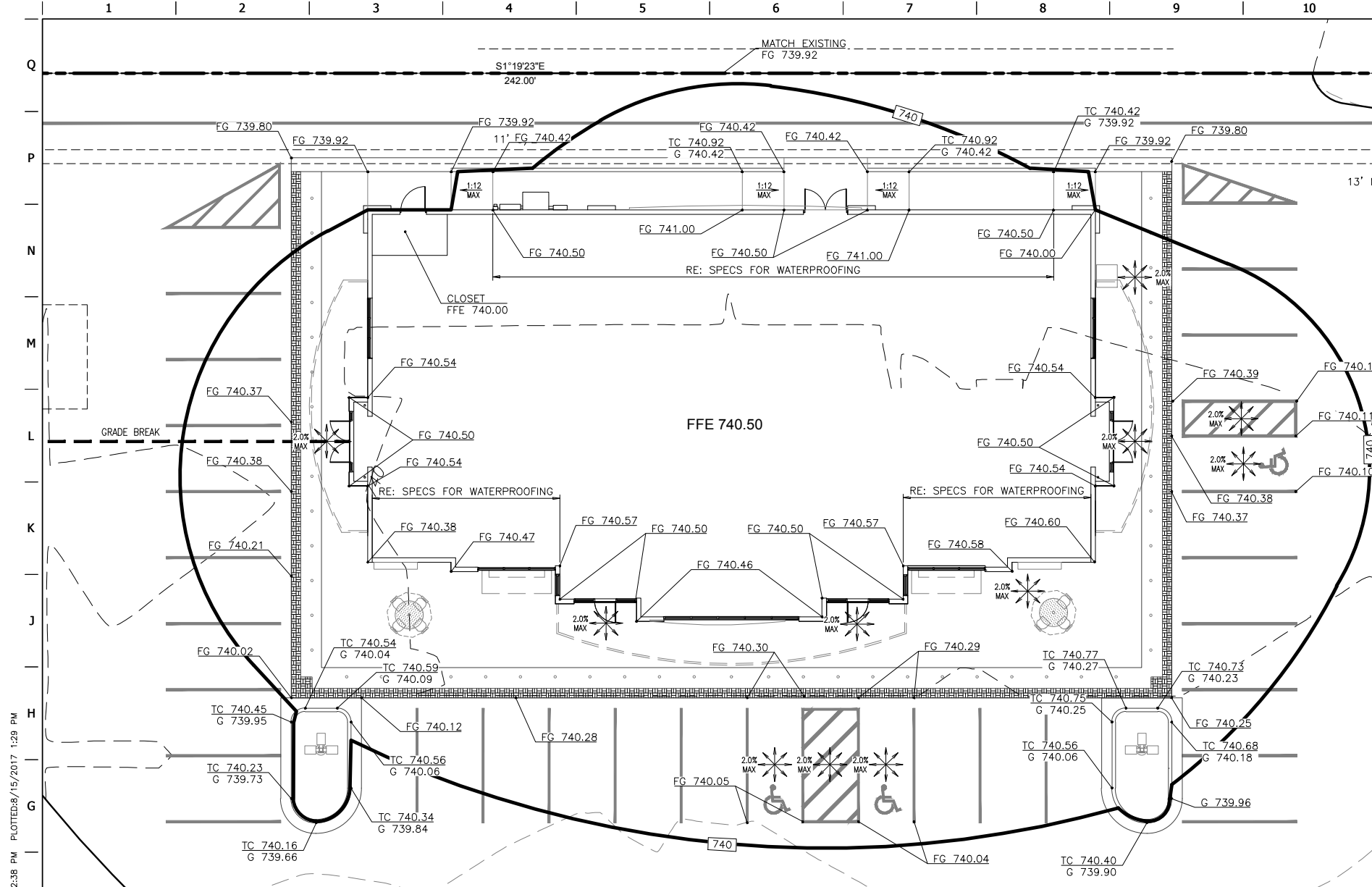
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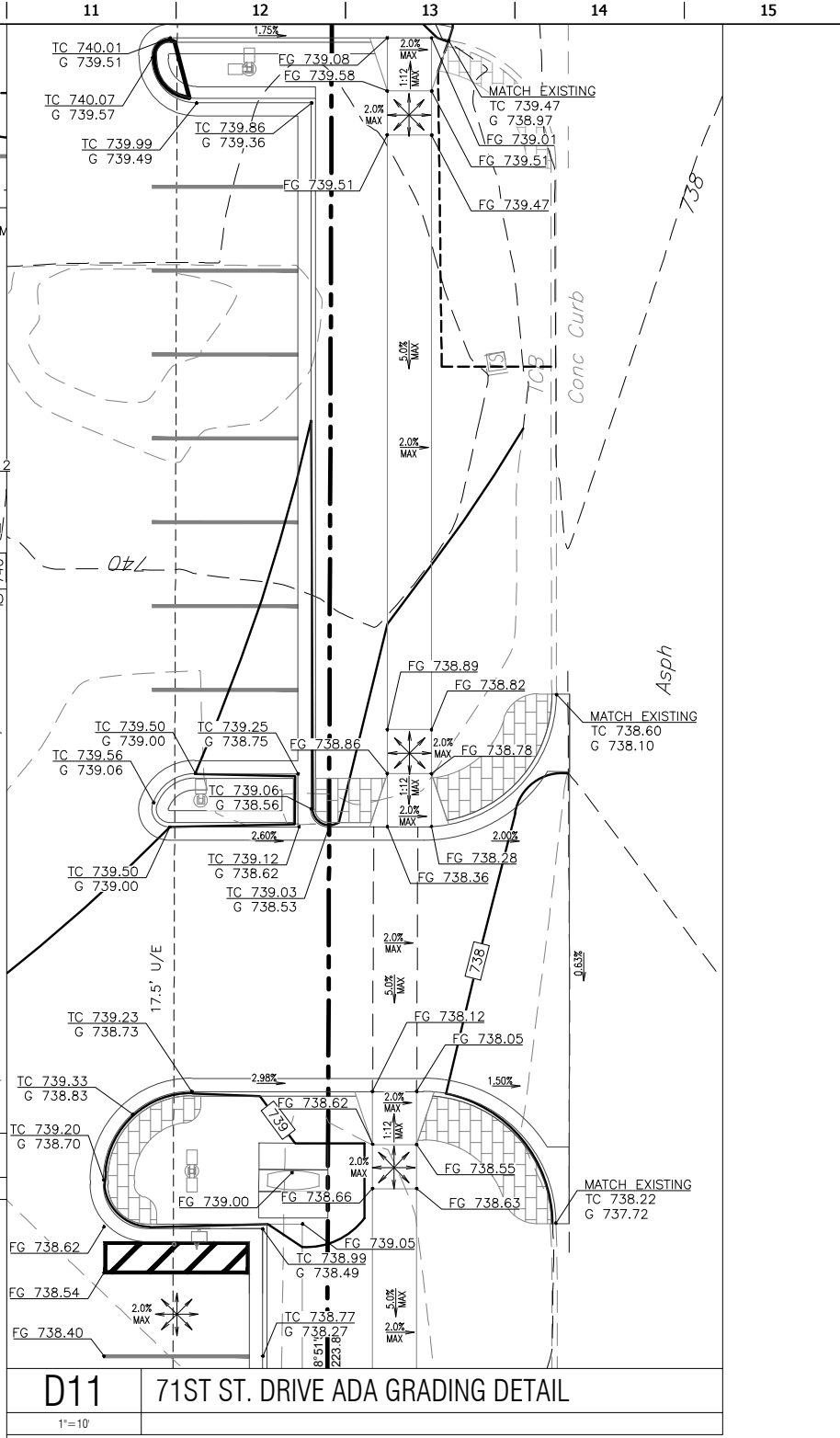
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F1 BUILDING ISLAND GRADING DETAIL
1"=10'



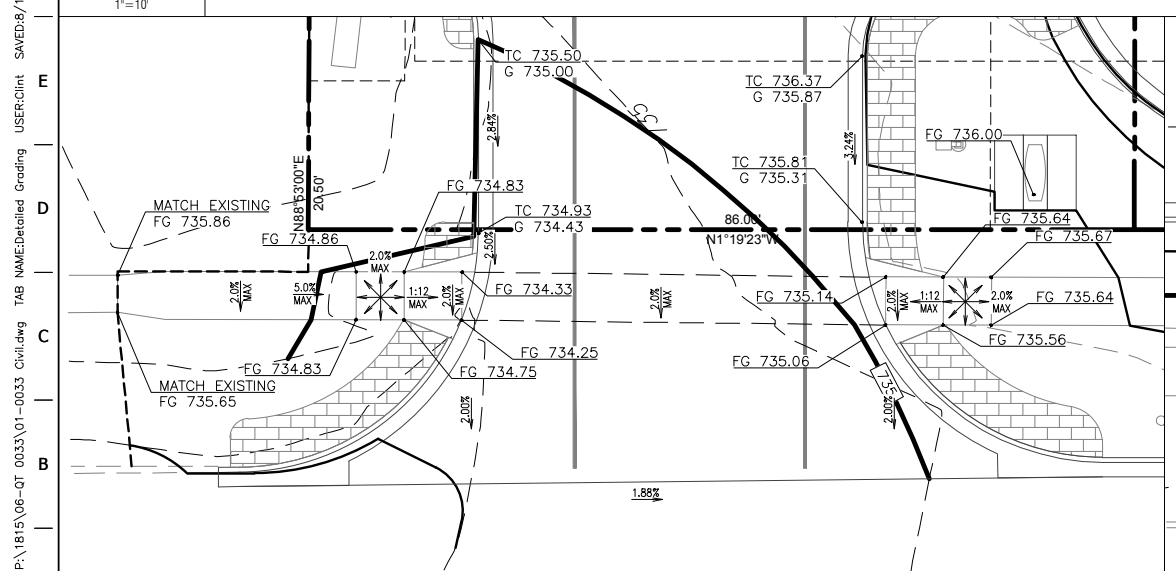
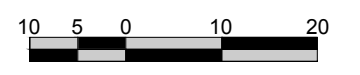
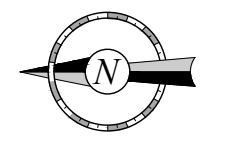
D11 71ST ST. DRIVE ADA GRADING DETAIL
1"=10'

PRIOR TO PLACING FRAMEWORK ON COMPLEX ADA RAMP DESIGNS, CONTRACTOR SHALL SUBMIT AN RFI WITH ADDITIONAL SURVEY DATA TO THE CONSULTANT. CONSULTANT WILL FINALIZE RAMP DESIGN AND RESPOND TO THE RFI.

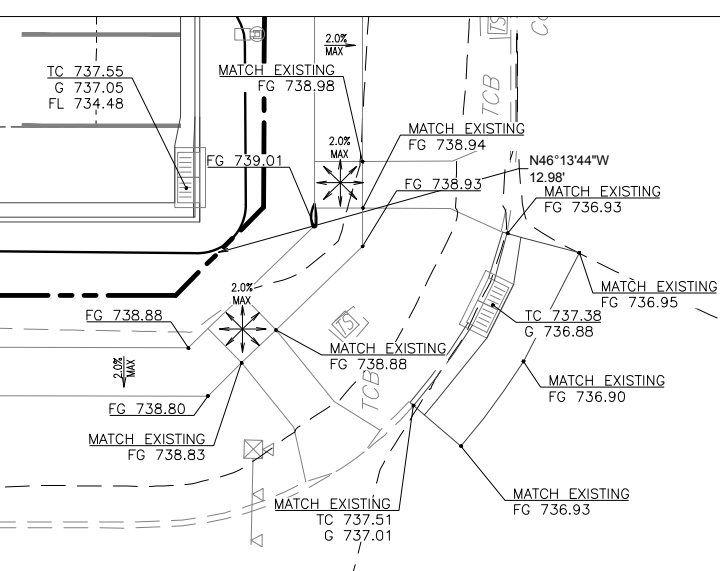
BENCHMARKS
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
ELEVATION=732.73'

GRADING LEGEND

XXXX	MAJOR CONTOUR (NEW)
xxxx	MINOR CONTOUR (NEW)
XXX	MAJOR CONTOUR (EXISTING)
xxx	MINOR CONTOUR (EXISTING)
- - - -	LIMITS OF DISTURBANCE
TC XXXX.XX	TOP OF CURB ELEVATION (NEW)
G XXXX.XX	GUTTER ELEVATION (NEW)
FG XXXX.XX	FINISHED GRADE ELEVATION (NEW)
FG XXXX.XX	SPOT ELEVATION (EXISTING)
Symbol	STORM GRATE (NEW)



A1 NORTH 23RD STREET DRIVE ADA GRADING DETAIL
1"=10'



A8 INTERSECTION ADA GRADING DETAIL
1"=10'



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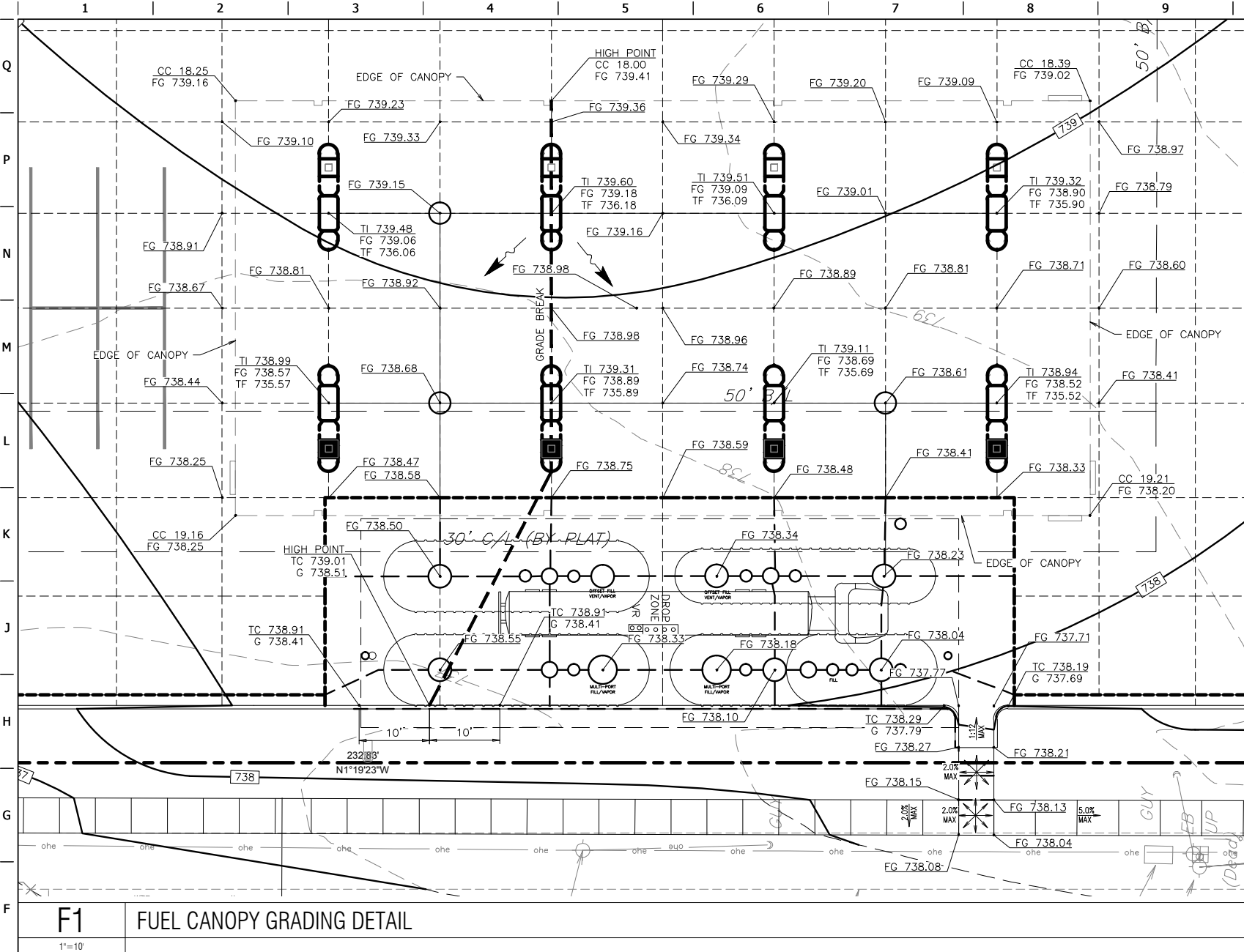
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SHEET NUMBER:
C111

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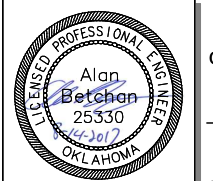
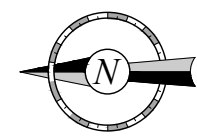


BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
 ALUMINUM CAP
 ELEVATION=732.73'

- GRADING LEGEND**
- XXXX— MAJOR CONTOUR (NEW)
 - - - - - MINOR CONTOUR (NEW)
 - - - - - MAJOR CONTOUR (EXISTING)
 - - - - - MINOR CONTOUR (EXISTING)
 - - - - - LIMITS OF DISTURBANCE
 - TC XXXX.XX TOP OF CURB ELEVATION (NEW)
 - G XXXX.XX GUTTER ELEVATION (NEW)
 - FG XXXX.XX FINISHED GRADE ELEVATION (NEW)
 - CC XXXX.XX CANOPY CLEARANCE ELEVATION (NEW)
 - FG XXXX.XX FINISHED GRADE ELEVATION (NEW)
 - TI XXXX.XX TOP OF ISLAND ELEVATION (NEW)
 - TP XXXX.XX TOP OF PAVEMENT ELEVATION (NEW)
 - TF XXXX.XX TOP OF FOOTING ELEVATION (NEW)
 - FG XXXX.XX SPOT ELEVATION (EXISTING)
- CANOPY COLUMN: STANDARD CANOPY
 EXTENDED FOOTING: 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" P009A00X DETAIL)

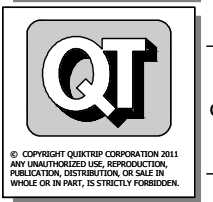
F1 FUEL CANOPY GRADING DETAIL
 1"=10'



PROJECT NO.:
AAB Engineering, LLC

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QuikTrip No. 0033
 2400 E. KENOSHA ST.
 BROKEN ARROW, OK



PROTOTYPE: P-91 (05/02/2017)
 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

REV	DATE	DESCRIPTION	CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
 DETAILED CANOPY GRADING PLAN

SHEET NUMBER:
C112

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
 ELEVATION=732.73'

ADA GRADING LEGEND

- ADA — ADA PATH OF TRAVEL (RE: HATCHING FOR RUNNING & CROSS SLOPE REQUIREMENT)
- [Hatched Box] 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 Box] 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 Box] 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 PD042A003)
 - PRIVATE PROPERTY RAMPS SHALL HAVE THE FACE OF THE CURB TRANSITIONS PAINTED YELLOW (RE: DETAIL AD015A002)

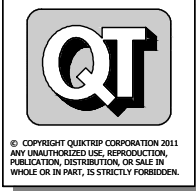
PARKING REQUIREMENTS

PARKING REQUIRED:	49
PARKING PROVIDED:	70
ACCESSIBLE PARKING REQUIRED:	3
ACCESSIBLE PARKING PROVIDED:	3



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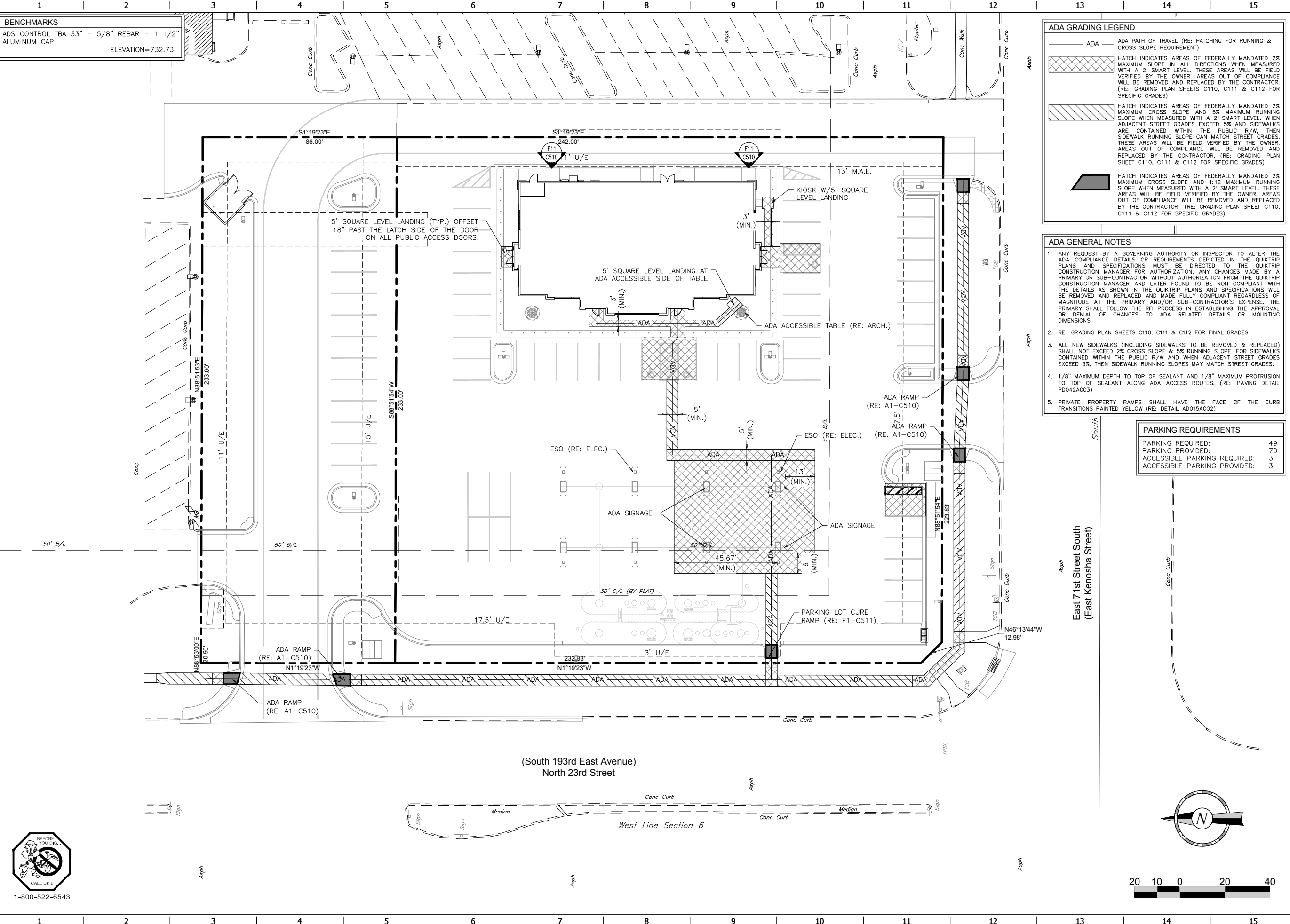
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 DRAWN BY: KMT
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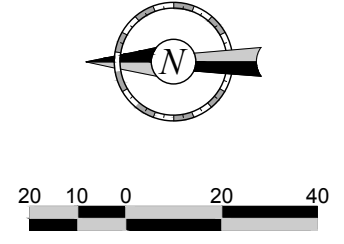
REV	DATE	DESCRIPTION

SHEET TITLE:
 ADA COMPLIANCE
 REFERENCE PLAN

SHEET NUMBER:
 C113



1-800-522-6543



FILE LOCATION: P:\1815\06-OT 0033\01-0033 Civil.dwg TAB NAME: ADA USER: chrt SAVED: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM

BENCHMARKS	
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP	ELEVATION=732.73'

STRUCTURE SUMMARY TABLE	
a	CICI DES. 2
b	DOUBLE GRATE DROP INLET (RE: F1-C540)

STORM SEWER LEGEND	
ST	STORM PIPE (< 10" NEW)
CD	BACK OF CURB DRAIN
---	STORM PIPE (> 12" NEW)
---	STORM PIPE (> 12" EXISTING)
---	MAJOR CONTOUR (NEW)
---	MINOR CONTOUR (NEW)
---	MAJOR CONTOUR (EXISTING)
---	MINOR CONTOUR (EXISTING)
---	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.

ALL STORM SEWERS SHOWN ARE PRIVATE UNLESS OTHERWISE NOTED.

ALAN BETCHAN
LICENSED PROFESSIONAL ENGINEER
25330
OKLAHOMA

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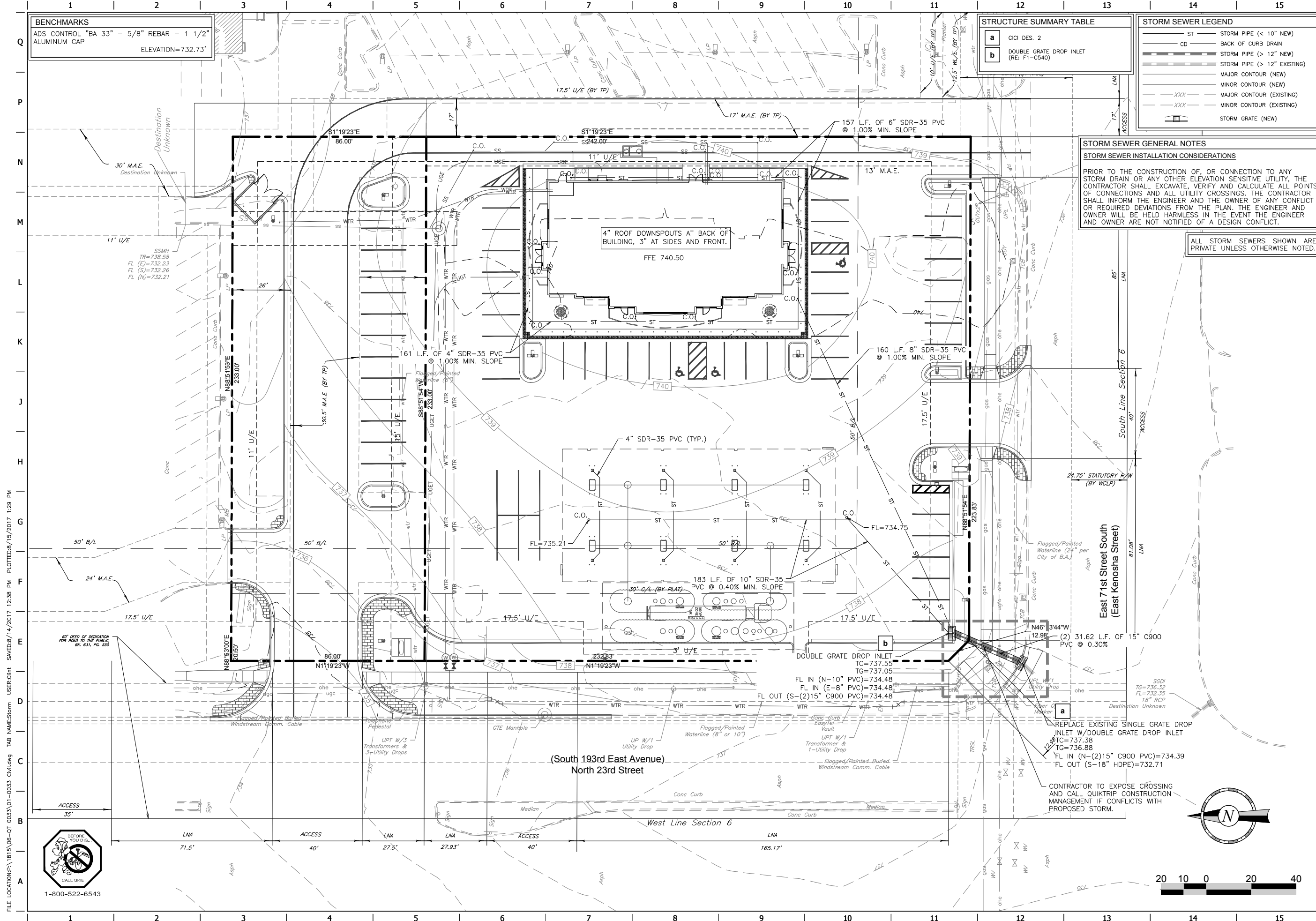
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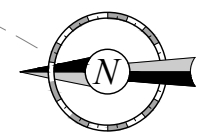
REV	DATE	DESCRIPTION

SHEET TITLE:
STORM PLAN

SHEET NUMBER:
C120



FILE LOCATION: P:\18151\06-OT 0033\101-0033 Civil.dwg TAB NAME: Storm USER: Clint. Saved: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM



FILE LOCATION: P:\1815\06-0033\01-0033 Civil.dwg TAB NAME: Drainage Area Map USER: dmlt SAVED: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
 ELEVATION=732.73'

STRUCTURE SUMMARY TABLE

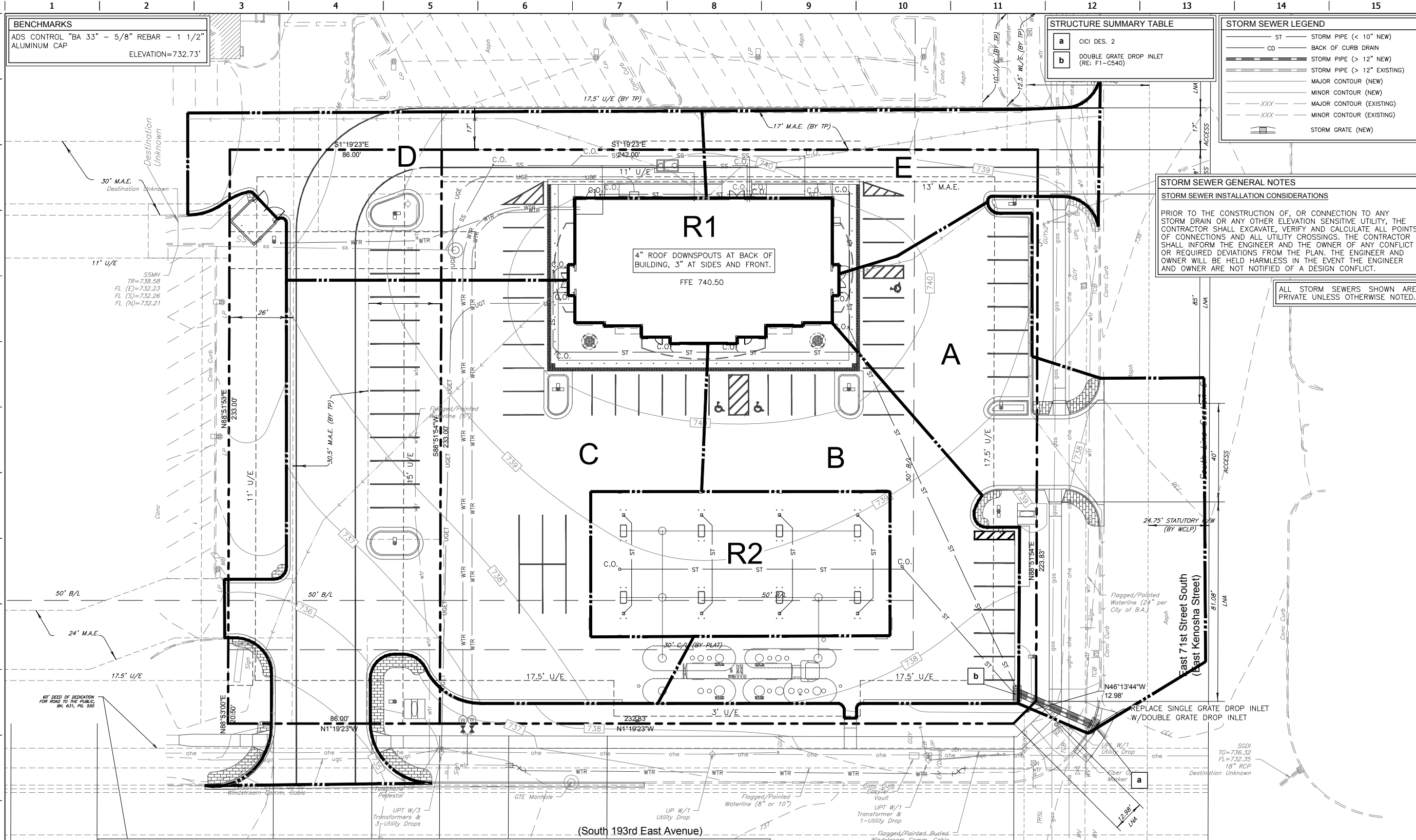
a	CICI DES. 2
b	DOUBLE GRATE DROP INLET (RE: F1-C540)

STORM SEWER LEGEND

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

ALL STORM SEWERS SHOWN ARE PRIVATE UNLESS OTHERWISE NOTED.

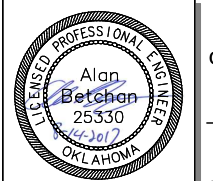


DRAINAGE SUMMARY CHART

DRAINAGE AREA BASIN	INLET LABEL	DRAINAGE AREA (ACRES)	C' (WEIGHTED)	OVERLAND REACH (FEET)	OVERLAND SLOPE (%)	OVERLAND VELOCITY (FPS)	WATERWAY REACH (FEET)	WATERWAY SLOPE (%)	WATERWAY VELOCITY (FPS)	PAVEMENT REACH (FEET)	PAVEMENT SLOPE (%)	PAVEMENT VELOCITY (FPS)	TOTAL T _c (MINUTES)	TOTAL T _c (HOURS)	Q ₁₀₀ (CFS)	Q ₁₀ (CFS)	DESIGN Q' (SUM AT INLET)	% SLOPE AT INLET	CLOGGING FACTOR	DEPTH @ INLET (FT)	INLET INTERCEPT (CFS)	INLET CAPACITY (CFS)	INLET BYPASS (CFS)	BYPASS TO INLET #	INLET DESIGN
A	a	0.39	0.86	-	-	-	-	-	-	302	1.32	2.34	2.16	11.59	3.9	3.9	SUMP	0.7	0.15	-	-	-	-	-	CICI DES. 2
B	b	0.28	0.95	-	-	-	-	-	-	287	1.35	2.36	2.03	11.65	3.1	3.1	SUMP	0.7	0.03	-	-	-	-	-	DOUBLE GRATE DROP INLET
C	-	0.61	0.95	-	-	-	-	-	-	261	2.70	3.34	1.30	12.01	7.0	7.0	SUMP	0.7	-	-	-	-	-	-	DISCHARGE INTO S. 193RD E. AVE.
D	-	0.26	0.95	-	-	-	-	-	-	229	1.00	2.03	1.88	11.72	2.9	2.9	SUMP	0.7	-	-	-	-	-	-	DISCHARGE INTO ADJACENT PARKING LOT
E	-	0.16	0.95	-	-	-	-	-	-	167	1.50	2.49	1.12	12.10	1.8	1.8	SUMP	0.7	-	-	-	-	-	-	DISCHARGE TO EAST 71ST STREET SOUTH
R1	-	0.13	0.95	-	-	-	-	-	-	-	-	-	-	12.72	1.6	1.6	SUMP	0.7	0.48	-	-	-	-	-	ROOF DRAIN TO INLET b
R2	-	0.17	0.95	-	-	-	-	-	-	-	-	-	-	12.72	2.1	2.1	SUMP	0.7	0.48	-	-	-	-	-	ROOF DRAIN TO INLET b

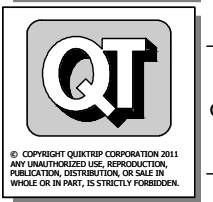
STORM SEWER SUMMARY TABLE

PIPE RUN	FROM	TO	SIZE (IN)	SLOPE (%)	FLOW (CFS)	CAPACITY (CFS)	V100 (FPS)	VHALF (FPS)	HGL DOWN (FT)	EGL DOWN (FT)	HGL UP (FT)	EGL UP (FT)
a	b	(2)15'	0.30	6.8	7.5	3.47	3.12	735.64	735.76	735.71	735.83	
b											735.86	735.97



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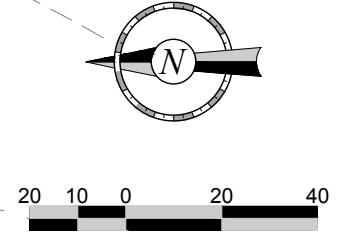
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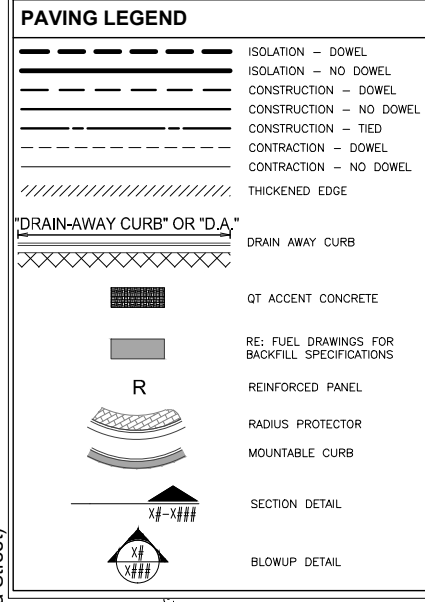
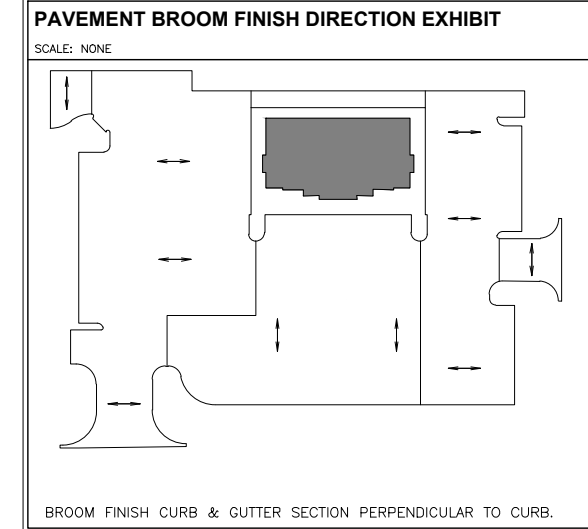
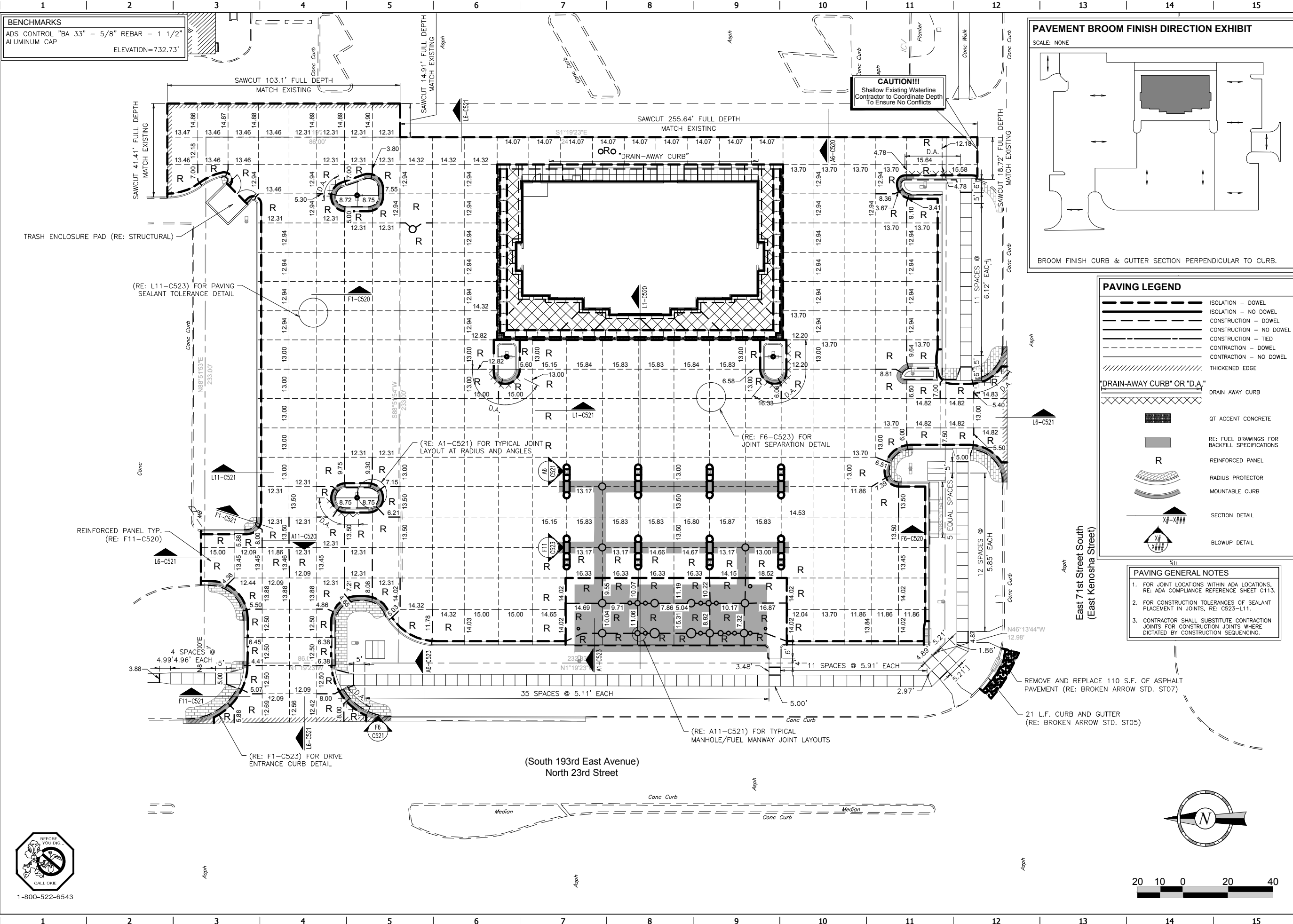
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 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
 DRAINAGE AREA MAP
 SHEET NUMBER:
C121



BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
 ELEVATION=732.73'



- PAVING GENERAL NOTES**
- FOR JOINT LOCATIONS WITHIN ADA LOCATIONS, RE: ADA COMPLIANCE REFERENCE SHEET C113.
 - FOR CONSTRUCTION TOLERANCES OF SEALANT PLACEMENT IN JOINTS, RE: C523-L11.
 - CONTRACTOR SHALL SUBSTITUTE CONTRACTION JOINTS FOR CONSTRUCTION JOINTS WHERE DICTATED BY CONSTRUCTION SEQUENCING.



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 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
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REV	DATE	DESCRIPTION

SHEET TITLE:
 PAVING PLAN

SHEET NUMBER:
C130

FILE LOCATION: P:\1815\06-0T 0033\01-0033 Civil.dwg TAB NAME: Paving USER: kmt SAVED: 08/15/2017 12:38 PM PLOTTED: 08/15/2017 1:29 PM



CONSTRUCTION SET ISSUE DATE:

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
 ALUMINUM CAP
 ELEVATION=732.73'

PAVING GENERAL NOTES

1. FOR JOINT LOCATIONS WITHIN ADA LOCATIONS, RE: ADA COMPLIANCE REFERENCE SHEET C113.
2. FOR CONSTRUCTION TOLERANCES OF SEALANT PLACEMENT IN JOINTS, RE: C523-L11.
3. CONTRACTOR SHALL SUBSTITUTE CONTRACTION JOINTS FOR CONSTRUCTION JOINTS WHERE DICTATED BY CONSTRUCTION SEQUENCING.

PAVING LEGEND

	ISOLATION - DOWEL
	ISOLATION - NO DOWEL
	CONSTRUCTION - DOWEL
	CONSTRUCTION - NO DOWEL
	CONSTRUCTION - TIED
	CONTRACTION - DOWEL
	CONTRACTION - NO DOWEL
	THICKENED EDGE
	DRAIN AWAY CURB
	QT ACCENT CONCRETE
	REINFORCED PANEL
	RADIUS PROTECTOR
	MOUNTABLE CURB
	SECTION DETAIL
	BLOWUP DETAIL



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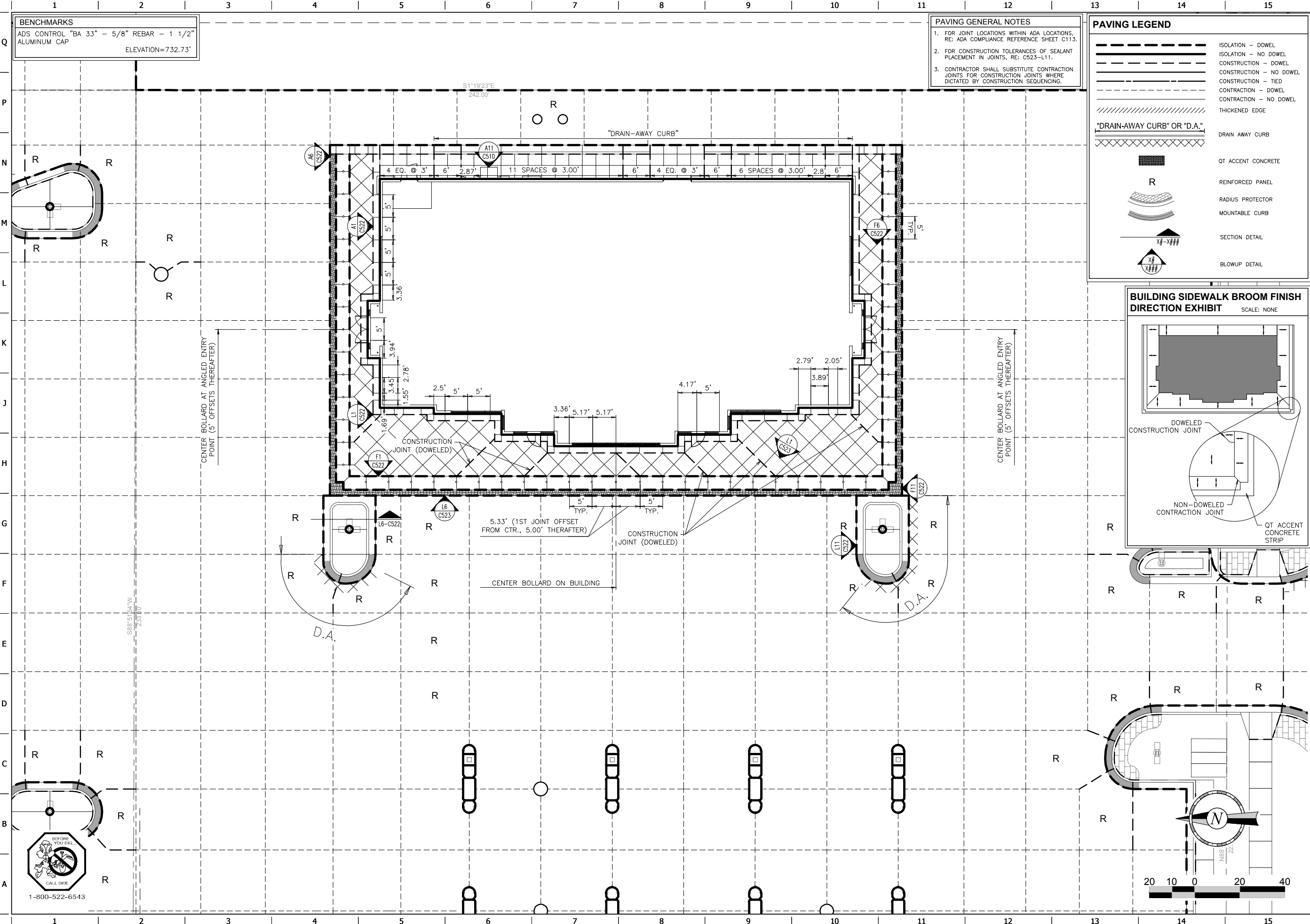
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 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
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REV	DATE	DESCRIPTION

SHEET TITLE:
BUILDING PAVING PLAN

SHEET NUMBER:
C131

FILE LOCATION: P:\1815\06-OT 0033\01-0033 Civil.dwg TAB NAME: Building Paving USER: Clint SWED/8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM



BENCHMARKS	
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP	ELEVATION=732.73'

ACREAGE SUMMARY	
IMPERVIOUS AREA	±1.75 ACRES
LANDSCAPE AREA	±0.07 ACRES
TOTAL DISTURBED	±1.82 ACRES

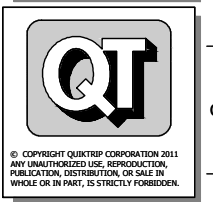
EROSION CONTROL LEGEND	
---XXX---	MAJOR CONTOUR (EXISTING)
---XXXX---	MINOR CONTOUR (EXISTING)
---XXXX---	MAJOR CONTOUR (NEW)
---XXXX---	MINOR CONTOUR (NEW)
[Symbol]	STORM GRATE (NEW)
[Symbol]	STRAW WATTLE (RE: DETAIL A7-C142)
[Symbol]	SILT FENCE (RE: DETAIL J1-C142)
---	LIMITS OF DISTURBANCE
[Symbol]	DRIVE ENTRANCE BARRICADE
[Symbol]	INLET PROTECTION (RE: DETAIL J7-C142)
[Symbol]	TEMPORARY STABILIZED CONSTRUCTION ENTRANCE (RE: DETAIL A1-C142)

OWNERSHIP / CONTRACTOR SUMMARY	
OWNER/DEVELOPER: QUIKTRIP CORPORATION 4705 SOUTH 129TH EAST AVENUE TULSA, OKLAHOMA, 74134 (918) 615-7140	
SITE OPERATOR/GENERAL CONTRACTOR: TBD	
SUPERINTENDENT: TBD	

ALAN BETCHAN
LICENSED PROFESSIONAL ENGINEER
25330
OKLAHOMA

PROJECT NO.:
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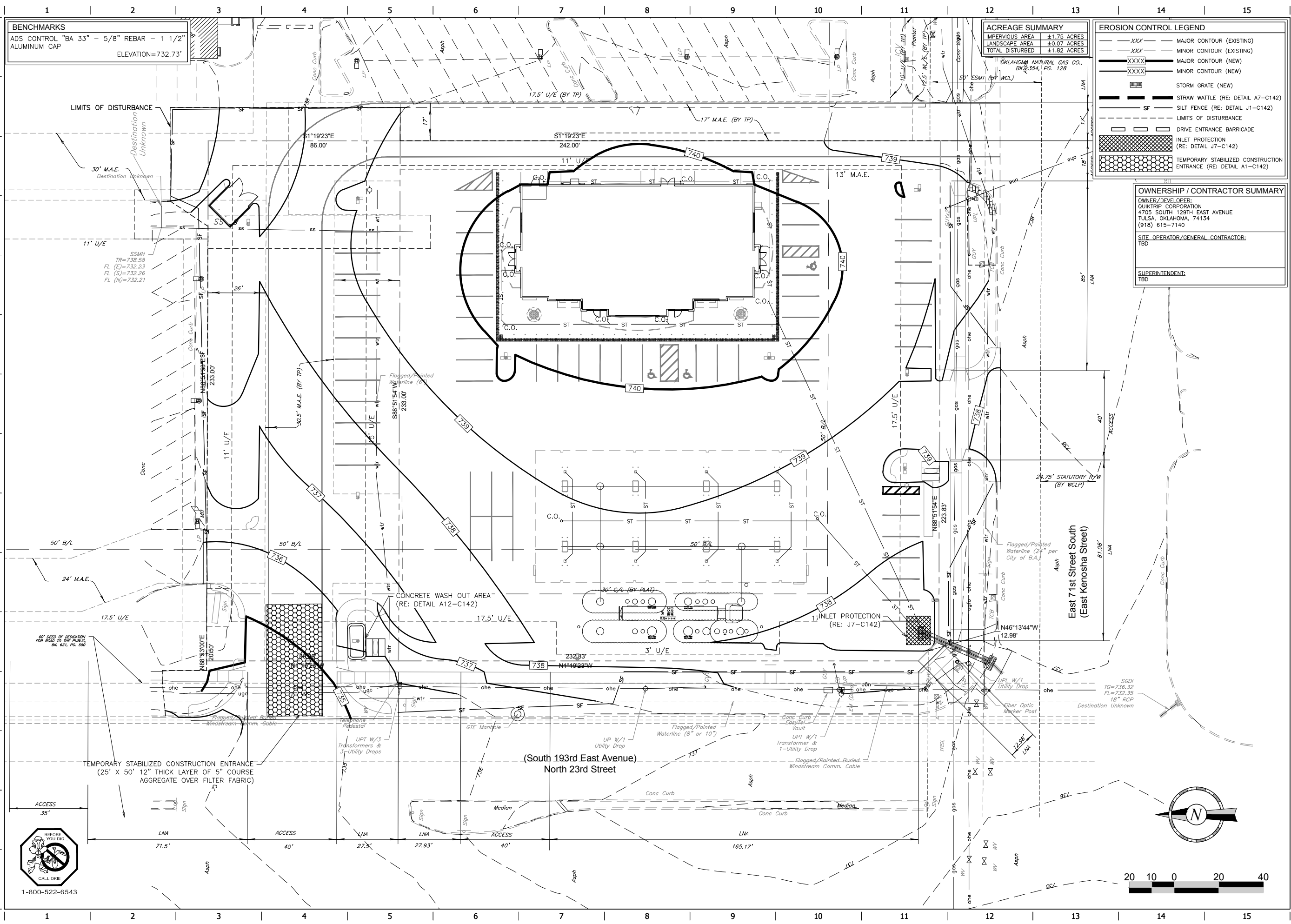
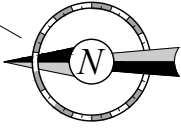


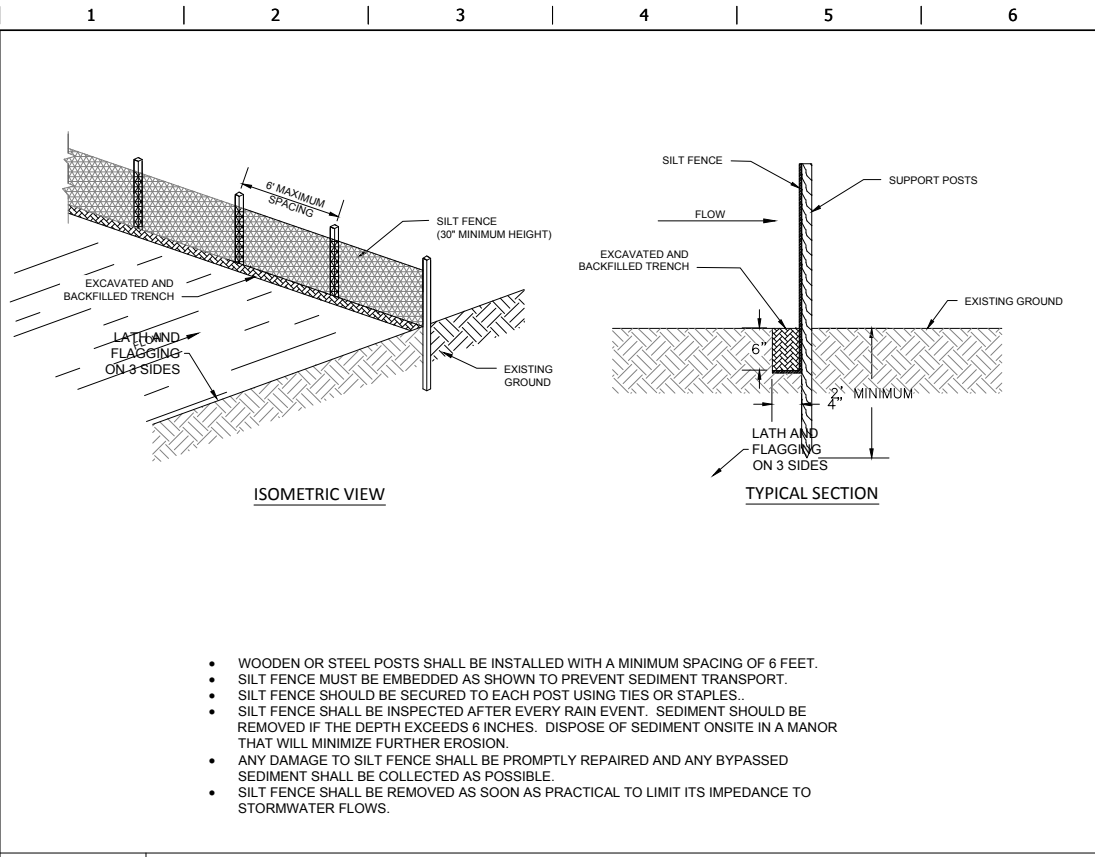
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DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE: EROSION CONTROL PLAN PHASE 2
SHEET NUMBER: C141

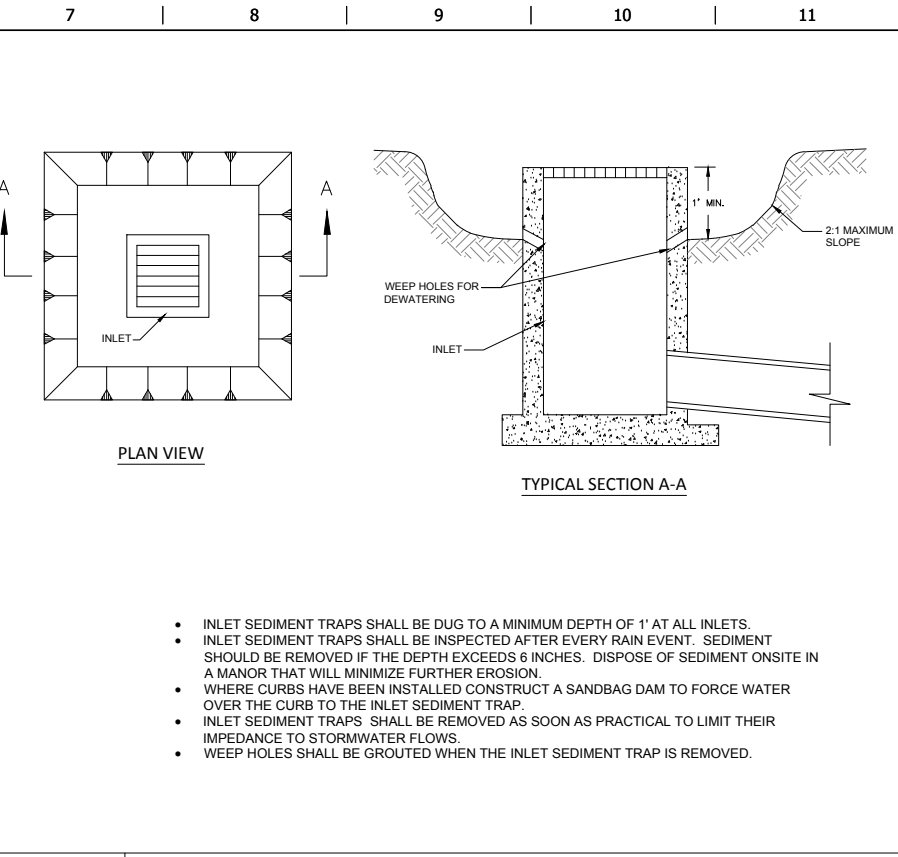
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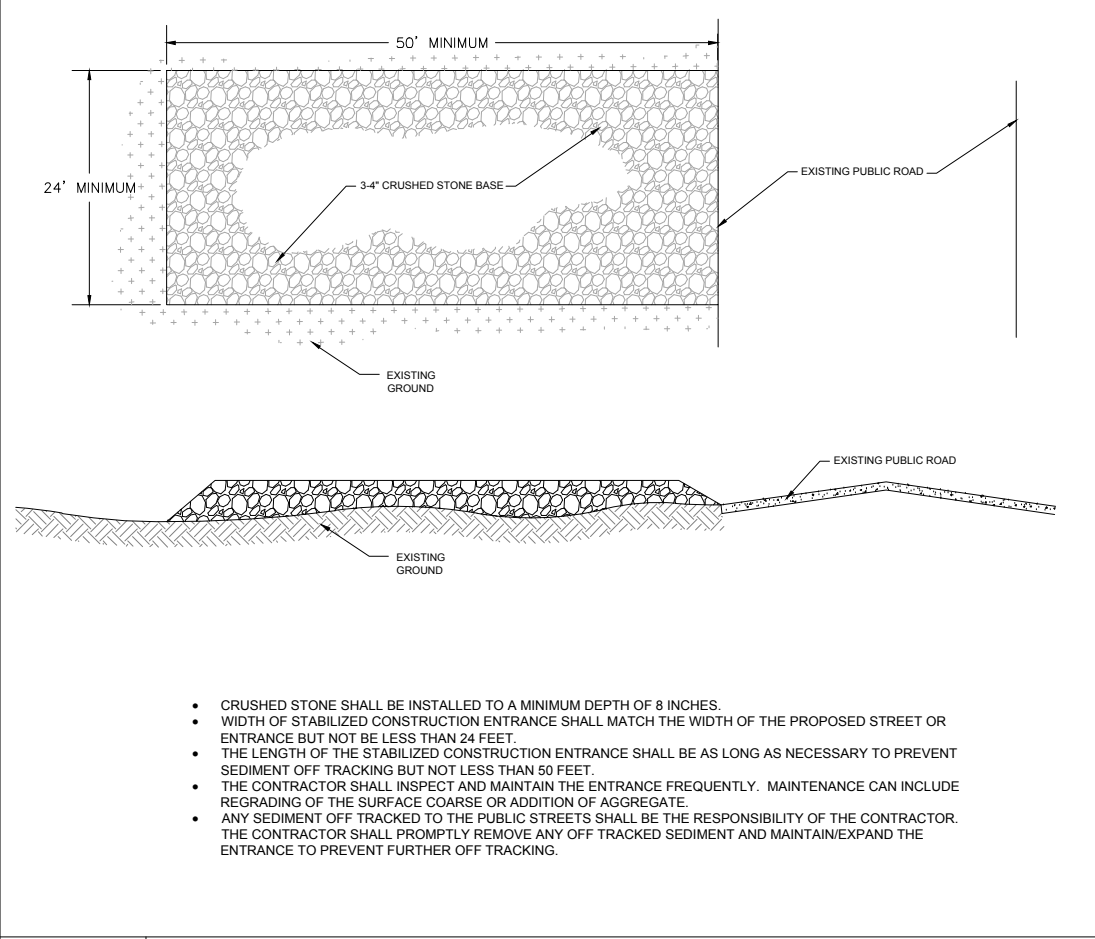
J1 SILT FENCE DETAIL
NTS

- WOODEN OR STEEL POSTS SHALL BE INSTALLED WITH A MINIMUM SPACING OF 6 FEET.
- SILT FENCE MUST BE EMBEDDED AS SHOWN TO PREVENT SEDIMENT TRANSPORT.
- SILT FENCE SHOULD BE SECURED TO EACH POST USING TIES OR STAPLES.
- SILT FENCE SHALL BE INSPECTED AFTER EVERY RAIN EVENT. SEDIMENT SHOULD BE REMOVED IF THE DEPTH EXCEEDS 6 INCHES. DISPOSE OF SEDIMENT ONSITE IN A MANNER THAT WILL MINIMIZE FURTHER EROSION.
- ANY DAMAGE TO SILT FENCE SHALL BE PROMPTLY REPAIRED AND ANY BYPASSED SEDIMENT SHALL BE COLLECTED AS POSSIBLE.
- SILT FENCE SHALL BE REMOVED AS SOON AS PRACTICAL TO LIMIT ITS IMPEDANCE TO STORMWATER FLOWS.



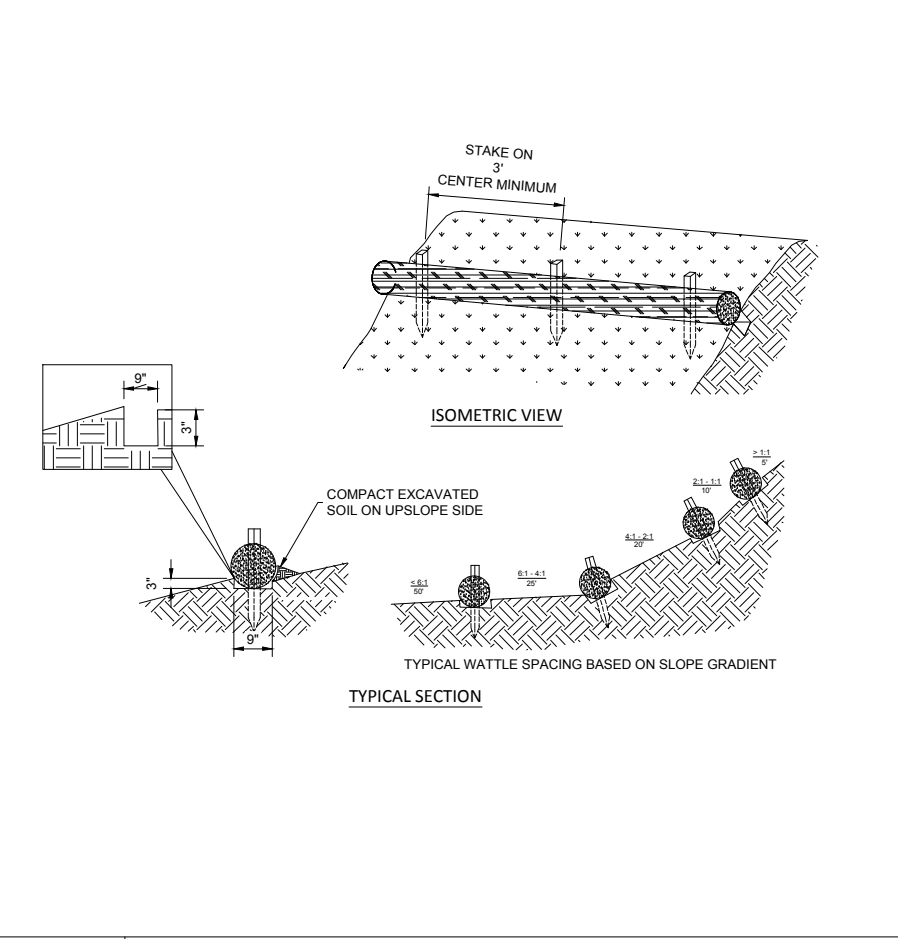
J7 INLET SEDIMENT TRAP DETAIL
NTS

- INLET SEDIMENT TRAPS SHALL BE DUG TO A MINIMUM DEPTH OF 1' AT ALL INLETS.
- INLET SEDIMENT TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT. SEDIMENT SHOULD BE REMOVED IF THE DEPTH EXCEEDS 6 INCHES. DISPOSE OF SEDIMENT ONSITE IN A MANNER THAT WILL MINIMIZE FURTHER EROSION.
- WHERE CURBS HAVE BEEN INSTALLED CONSTRUCT A SANDBAG DAM TO FORCE WATER OVER THE CURB TO THE INLET SEDIMENT TRAP.
- INLET SEDIMENT TRAPS SHALL BE REMOVED AS SOON AS PRACTICAL TO LIMIT THEIR IMPEDANCE TO STORMWATER FLOWS.
- WEEP HOLES SHALL BE GROUTED WHEN THE INLET SEDIMENT TRAP IS REMOVED.



A1 STABILIZED CONSTRUCTION ENTRANCE DETAIL
NTS

- CRUSHED STONE SHALL BE INSTALLED TO A MINIMUM DEPTH OF 8 INCHES.
- WIDTH OF STABILIZED CONSTRUCTION ENTRANCE SHALL MATCH THE WIDTH OF THE PROPOSED STREET OR ENTRANCE BUT NOT BE LESS THAN 24 FEET.
- THE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE AS LONG AS NECESSARY TO PREVENT SEDIMENT OFF TRACKING BUT NOT LESS THAN 50 FEET.
- THE CONTRACTOR SHALL INSPECT AND MAINTAIN THE ENTRANCE FREQUENTLY. MAINTENANCE CAN INCLUDE REGRADING OF THE SURFACE COARSE OR ADDITION OF AGGREGATE.
- ANY SEDIMENT OFF TRACKED TO THE PUBLIC STREETS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY OFF TRACKED SEDIMENT AND MAINTAIN/EXPAND THE ENTRANCE TO PREVENT FURTHER OFF TRACKING.



A7 STRAW WATTLE
NTS

TEMPORARY EROSION CONTROL SEEDING

TEMPORARY EROSION CONTROL SHOULD BE IMPLEMENTED ONCE BULK EARTHWORK OPERATIONS ARE COMPLETED TO MINIMIZE EROSION POTENTIAL BEFORE PERMANENT COVER IS ESTABLISHED. TEMPORARY SEEDING MEASURES ARE GENERALLY NECESSARY WHEN SOILS WILL BE DISTURBED IN EXCESS OF 6 MONTHS PRIOR TO PERMANENT SEEDING. DURING PERIODS OF HIGH PRECIPITATION OR IN HIGHLY EROSIIVE SOILS THIS TIMEFRAME MAY BE SHORTER.

- THE CONTRACTOR SHALL ENSURE ALL STRUCTURAL EROSION CONTROL MEASURES, INCLUDING STRAW WATTLES, CHECK DAMS, SILT FENCE, AND INLET SEDIMENT TRAPS, HAVE BEEN IMPLEMENTED PRIOR TO TEMPORARY SEEDING.
- ALL SEED SHALL BE UNIFORMLY DRILLED OR HYDROSEEDED.
- ALL SEEDING IMPLEMENTS SHOULD TRAVEL PATHS PERPENDICULAR TO THE SLOPES TO LIMIT EROSION.
- IF THE SURFACE OF THE SOIL IS NOT LOOSENED FROM RECENT GRADING OPERATIONS IT SHALL BE DISCED PRIOR TO SEEDING.
- AN EVENLY BALANCED FERTILIZER, SUCH AS 10-10-10 OR 13-13-13, SHALL BE APPLIED AT A RATE 450 LBS. PER ACRE (10 LBS PER 1000 SQ. FT.) PRIOR TO SEEDING.
- SHOULD COVER NOT DEVELOP THE CONTRACTOR SHALL RESEED AS NECESSARY TO ESTABLISH SUFFICIENT GROUND COVER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL 2 INCHES OF GROWTH HAS BEEN ACHIEVED AND AS NECESSARY TO MAINTAIN TEMPORARY COVER.
- ACCEPTABLE TEMPORARY SEEDING OPTIONS ARE:

PERMANENT EROSION CONTROL SEEDING

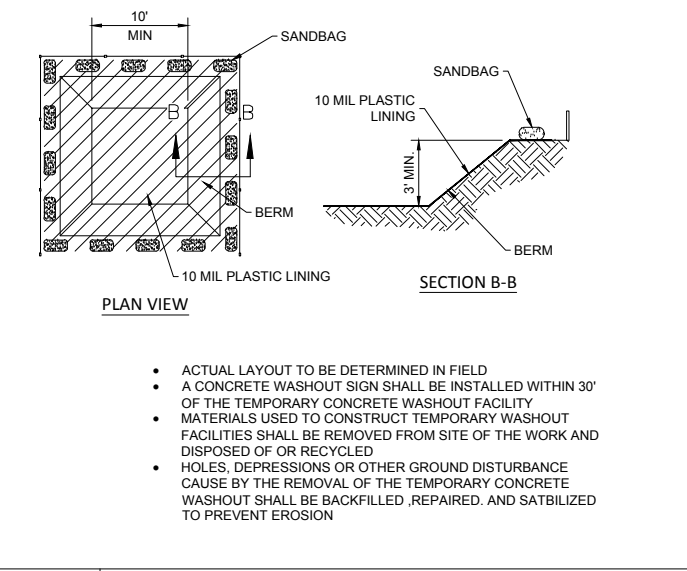
PERMANENT EROSION CONTROL SEEDING SHOULD BE COMPLETED AS SOON AS PRACTICAL TO MINIMIZE EROSION. FOR BEST RESULTS A BLEND OF SEED SHOULD BE USED TO DEVELOP A GROUND COVER BEST ADAPTED TO THE VARIED CLIMATE CONDITIONS FOUND IN OKLAHOMA.

- ALL SEED SHALL BE UNIFORMLY DRILLED OR HYDROSEEDED.
- ALL SEEDING IMPLEMENTS SHOULD TRAVEL PATHS PERPENDICULAR TO THE SLOPES TO LIMIT EROSION.
- AN EVENLY BALANCED FERTILIZER, SUCH AS 10-10-10 OR 13-13-13, SHALL BE APPLIED AT A RATE 450 LBS. PER ACRE (10 LBS PER 1000 SQ. FT.) PRIOR TO SEEDING. FERTILIZER SHOULD BE DISCED EVENLY INTO THE SOIL.
- IF THE SURFACE OF THE SOIL IS NOT LOOSENED FROM RECENT GRADING OPERATIONS IT SHALL BE DISCED PRIOR TO SEEDING.
- SHOULD COVER NOT DEVELOP THE CONTRACTOR SHALL RESEED AS NECESSARY TO ESTABLISH ADEQUATE GROUND COVER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL 2 INCHES OF GROWTH HAS BEEN ACHIEVED.
- ACCEPTABLE PERMANENT SEEDING OPTIONS ARE:

SEED TYPE	PER ACRE	RATE PER 1000 SQ. FT.	PLANTING DATE
BERMUDAGRASS	80 LBS.	2.0 LBS.	APR.-JULY
FESCUE	200 LBS.	5.0 LBS.	MAR.-MAY
BUFFALOGRASS	80 LBS.	2.0 LBS.	SEPT.-NOV.
WEEPING LOVEGRASS	40 LBS.	1.0 LB.	APR.-JUNE



BENCHMARKS	
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"	ELEVATION=732.73'
ALUMINUM CAP	



A12 CONCRETE WASHOUT DETAIL
NTS

- ACTUAL LAYOUT TO BE DETERMINED IN FIELD
- A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY
- MATERIALS USED TO CONSTRUCT TEMPORARY WASHOUT FACILITIES SHALL BE REMOVED FROM SITE OF THE WORK AND DISPOSED OF OR RECYCLED
- HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT SHALL BE BACKFILLED, REPAIRED, AND SATLIALIZED TO PREVENT EROSION



PROJECT NO.:

AAB Engineering, LLC
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PROTOTYPE: P-91 (05/02/2017)
DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV.	DATE	DESCRIPTION	CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C142

FILE LOCATION: P:\1815\06-01-0033\01-0033 Civil.dwg TAB NAME: Erosion Control Details USER: Clint SAVES: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM

BENCHMARKS
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
ALUMINUM CAP
ELEVATION=732.73'

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.

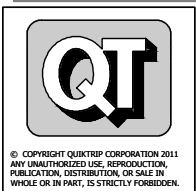
EXISTING LEGEND

- UNDERGROUND CABLE
- OVERHEAD ELECTRIC
- GAS LINE (PLUS SIZE/TYPE ON PLANS)
- SANITARY SEWER LINE (PLUS SIZE/TYPE ON PLANS)
- STORM SEWER LINE ($\geq 12"$) (PLUS SIZE/TYPE ON PLANS)
- WATER LINE (PLUS SIZE/TYPE ON PLANS)
- UTILITY PEDESTAL/RISE-PLUS TYPE OF UTILITY
- UTILITY POLE-PLUS TYPE OF UTILITY
- UTILITY POLE W/LIGHT
- UTILITY POLE W/TRANSFORMER
- UTILITY MANHOLE (PLUS TYPE/RE'S)
- UTILITY METER (PLUS TYPE)
- UTILITY VALVE (PLUS TYPE)
- UTILITY CLEAN OUT (PLUS TYPE/SIZE)
- GUY WIRE
- LIGHT POLE (PLUS # HEADS/DIRECTION SHOWN GRAPHICALLY)
- FIRE HYDRANT
- SINGLE POST SIGN (PLUS TYPE/VERBIAGE)
- TRAFFIC SIGNAL W/MAST ARM
- TRAFFIC SIGNAL
- TRAFFIC CONTROL BOX
- MAIL BOX
- MONITOR WELL
- MPD (MULTIPLE PRODUCT DISPENSER)
- BOLLARD
- PROPERTY R/W LINE (QT NET)
- SECTION LINE
- CURB LINE
- EDGE OF ASPHALT
- EDGE OF CONCRETE
- WALL
- EXISTING STRUCTURE (PLUS MATERIAL SF, # STORIES)



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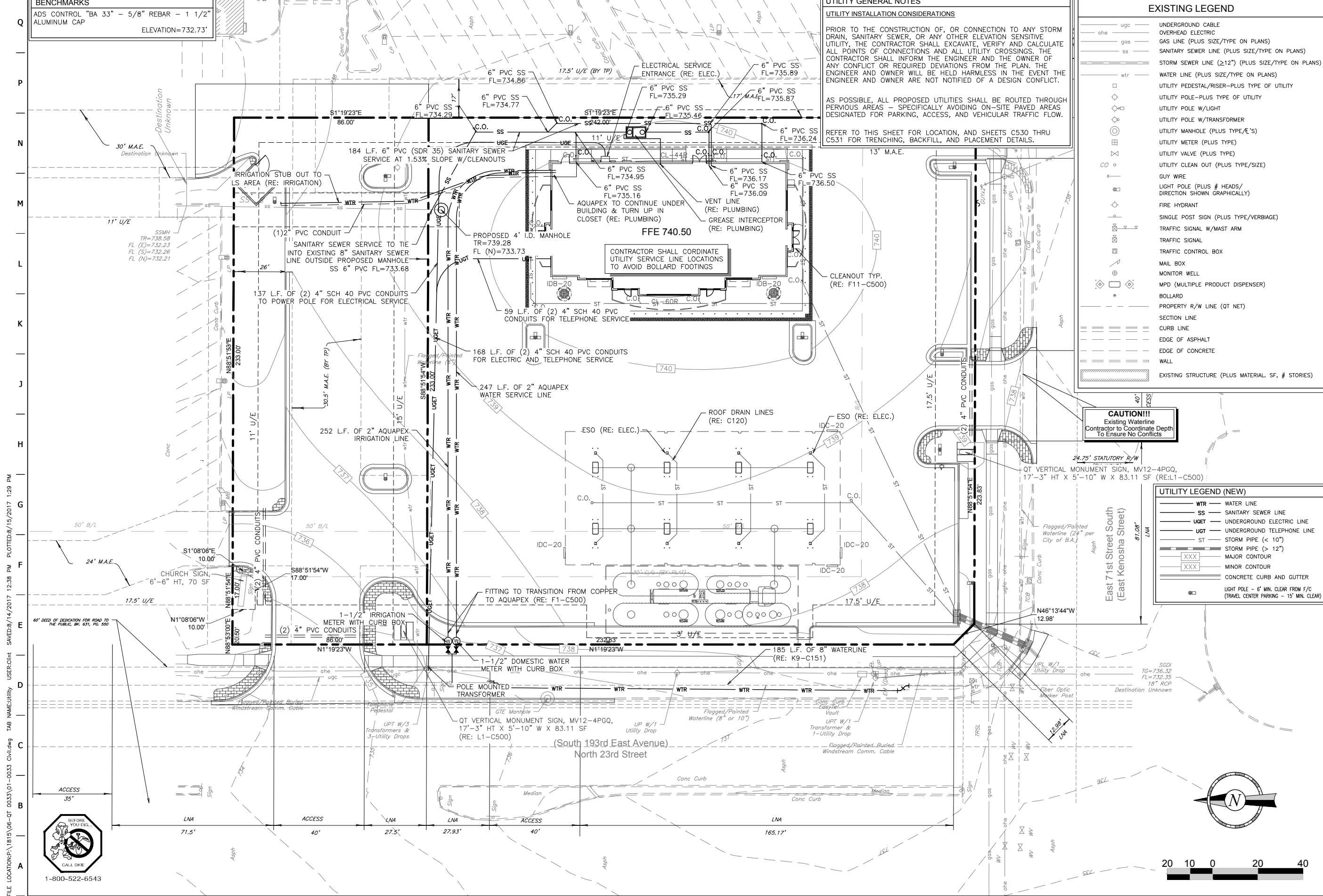


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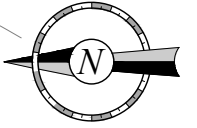
UTILITY LEGEND (NEW)

- WATER LINE
- SANITARY SEWER LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND TELEPHONE LINE
-
-
- MAJOR CONTOUR
- MINOR CONTOUR
- CONCRETE CURB AND GUTTER
- LIGHT POLE - 6" MIN. CLEAR FROM F/C (TRAVEL CENTER PARKING - 15" MIN. CLEAR)

CAUTION!!!
Existing Waterline
Contractor to Coordinate Depth
To Ensure No Conflicts



FILE LOCATION: P:\1815\06-04-2017\0033\01-0033\Civil.dwg TAB NAME: UTILITY USER: CHIT SAVVED: 8/15/2017 1:29 PM PLOTTED: 8/15/2017 1:29 PM



REV	DATE	DESCRIPTION

SHEET TITLE:
UTILITY PLAN
SHEET NUMBER:
C150

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
 ALUMINUM CAP
 ELEVATION=732.73'

WATERLINE NOTES

- ALL WATER DISTRIBUTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS AND CONSTRUCTION SPECIFICATIONS.
- ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION SHALL BE INSPECTED BY THE CITY UTILITY INSPECTORS.
- DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE THE LINE.
- WHEN C-900 PVC IS USED, A NO. 8 BARE COPPER WIRE SHALL BE TAPED TO THE TOP SURFACE OF THE PIPE AND CONNECTED TO EACH FIRE HYDRANT IMMEDIATELY ABOVE GROUND LEVEL.
- ALL IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED.
- ALL LINES IN CONDUIT AND AT DRAINAGE FEATURE CROSSINGS SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS.
- ALL FITTINGS SHALL HAVE RESTRAINED JOINTS AND THRUST BLOCKS.
- ALL MAIN LINES SHALL HAVE A MINIMUM OF 42 INCHES (3.5 FEET) AND A MAXIMUM OF EIGHT (8) FEET OF COVER.
- SERVICE LINES SHALL BE TAPPED TO MAIN LINES USING SOLID BRASS SADDLES. WATER SERVICE WILL BE INSTALLED BY A WATER SERVICE INSTALLATION CONTRACTOR/PLUMBER FROM THE CITY'S APPROVED LIST.
- ALL EXISTING VALVES TO BE OPERATED BY THE CITY AT CONTRACTOR'S EXPENSE.
- FIRE HYDRANTS:
 - FIRE HYDRANTS SHALL BE MUELLER, KENNEDY, AMERICAN DARLING, OR AVK ONLY. BARREL SIZE IS TO BE 5 1/4" WITH 4 1/2" AND 2 1/2" NST HOSE COUPLING, AND STATED NOTE SHALL REFLECT THIS CONDITION.
 - EACH HYDRANT SHALL BE SET WITH THE STREAMER NOZZLE FACING THE STREET AND WITH A MINIMUM CLEARANCE OF EIGHTEEN (18) INCHES ABOVE THE FINISHED GRADE.
- ALL SALVAGED FITTINGS SHALL, AT THE CITY'S DISCRETION, BE RETURNED TO THE CITY'S YARD AS DIRECTED BY THE INSPECTOR.
- CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO TESTING AND CHLORINATION.
- ALL FITTINGS ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ALL TAPS, TAPPING SLEEVES AND VALVES WILL BE PROVIDED BY THE CITY OF BROKEN ARROW AT THE CONTRACTOR'S EXPENSE.

UTILITY LEGEND (NEW)

- WTR - WATER LINE
- SS - SANITARY SEWER LINE
- UGET - UNDERGROUND ELECTRIC LINE
- UGT - UNDERGROUND TELEPHONE LINE
- ST - STORM PIPE (< 10")
- ST - STORM PIPE (> 12")
- XXX - MAJOR CONTOUR
- XXX - MINOR CONTOUR
- CONC - CONCRETE CURB AND GUTTER
- LIGHT POLE - 6' MIN. CLEAR FROM F/C (TRAVEL CENTER PARKING - 15' MIN. CLEAR)

WATER LINE QUANTITIES

RIGHT-OF-WAY CLEARING AND RESTORING.....187 LF
 EXCAVATION AND BACKFILL, UNCLASSIFIED.....27 CY
 8" DUCTILE IRON PIPE.....187 LF
 CONNECTION TO EXISTING 8" WATER LINE.....2 EA
 8" 45° BEND.....4 EA
 8" SOLID SLEEVE.....1 EA

UTILITY GENERAL NOTES

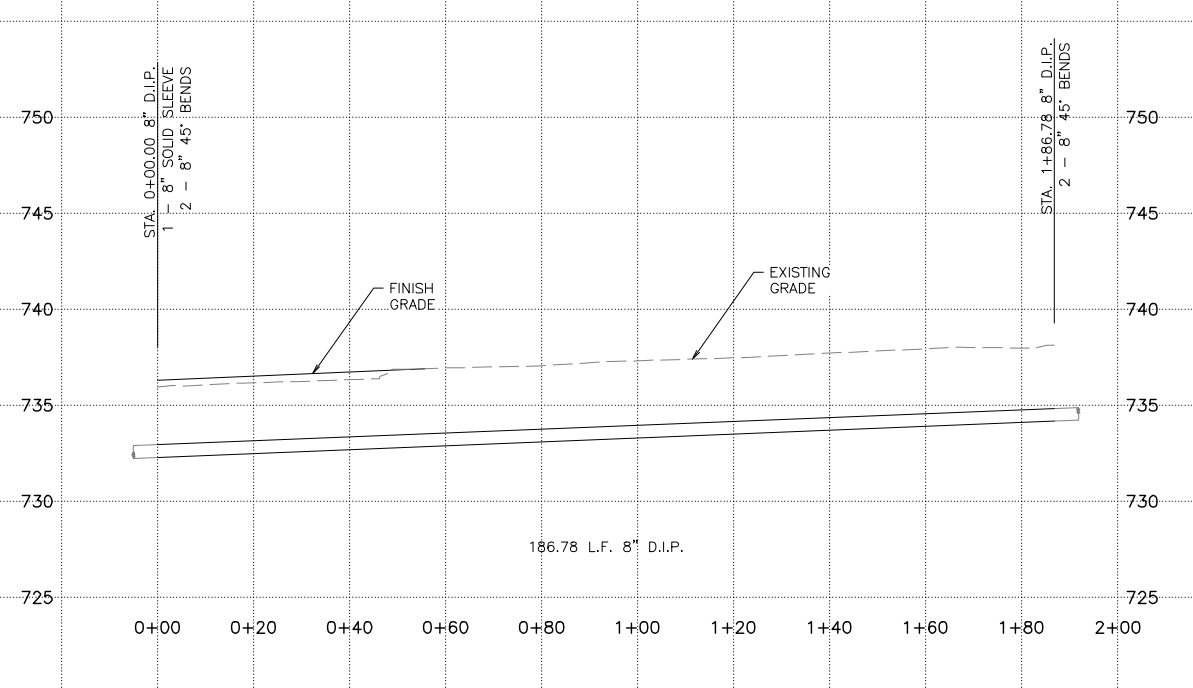
UTILITY INSTALLATION CONSIDERATIONS

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 PEROUS 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.

K9 8" DUCTILE IRON PIPE PROFILE
 H:1"=20', V:1"=5'



PROFESSIONAL ENGINEER
 Alan Betchan
 25330
 OKLAHOMA

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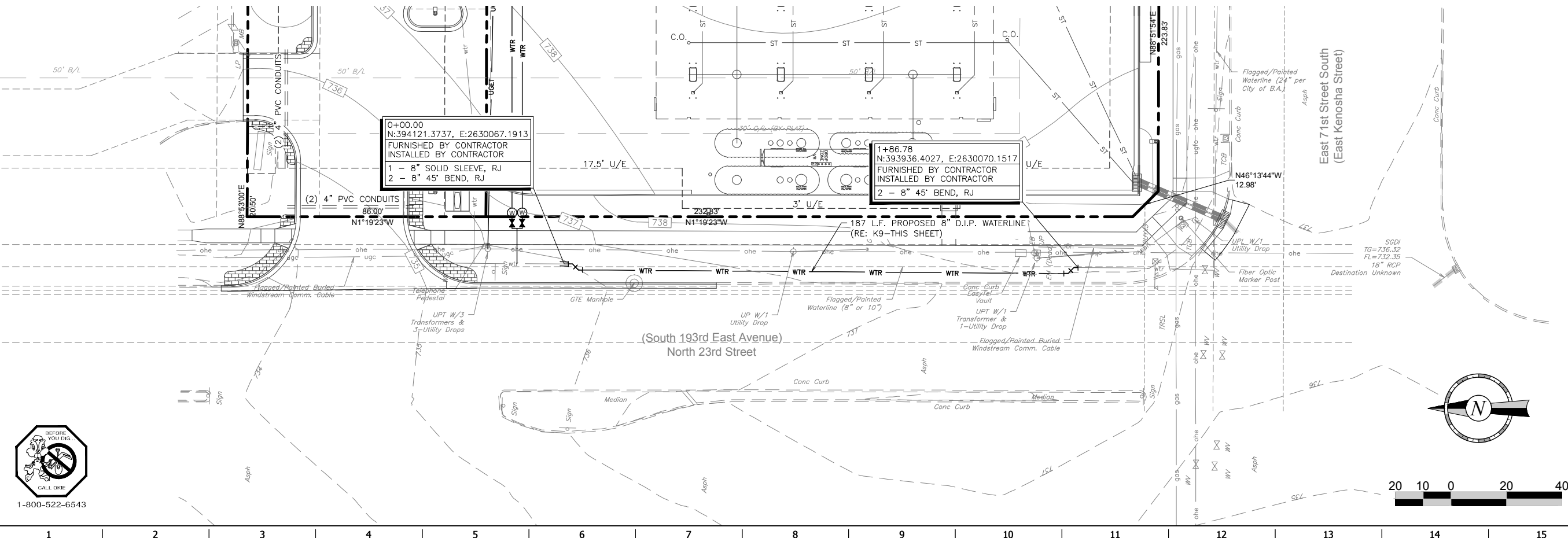
PROTOTYPE: P-91 (05/02/2017)
DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
 WATERLINE PLAN AND PROFILE

SHEET NUMBER:
 C151

FILE LOCATION: P:\1815\06-OT 0033\01-0033 Civil.dwg TAB NAME: Waterline P&P USER: Cit. SAVERD/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM



CONSTRUCTION SET ISSUE DATE:

FILE LOCATION: P:\1815\06-01-0033\01-0033\01-0033 Civil.dwg TAB NAME: Storm Profiles USER: Clint SAVED: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:29 PM

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2"
 ALUMINUM CAP
 ELEVATION=732.73'



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PROTOTYPE: P-91 (05/02/2017)
 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

REV	DATE	DESCRIPTION	CONSTRUCTION SET	ISSUE DATE:

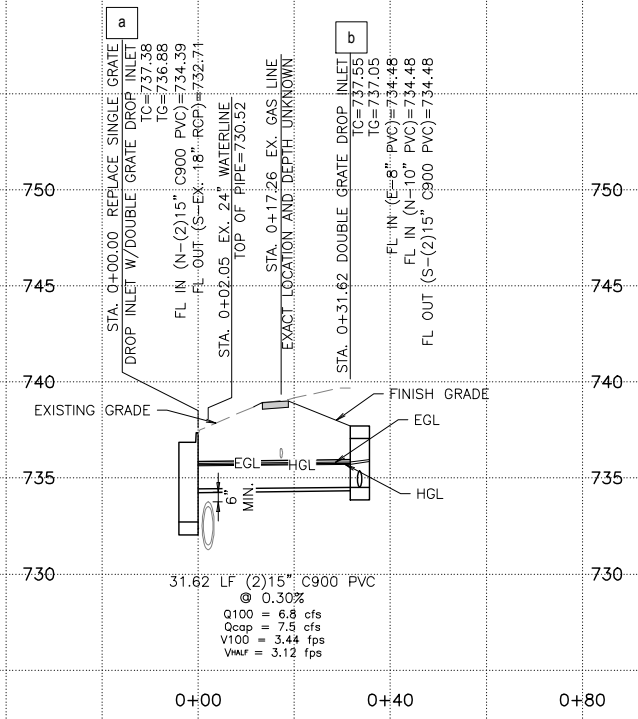
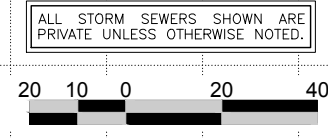
SHEET TITLE:
 STORM SEWER PROFILES

SHEET NUMBER:
C300

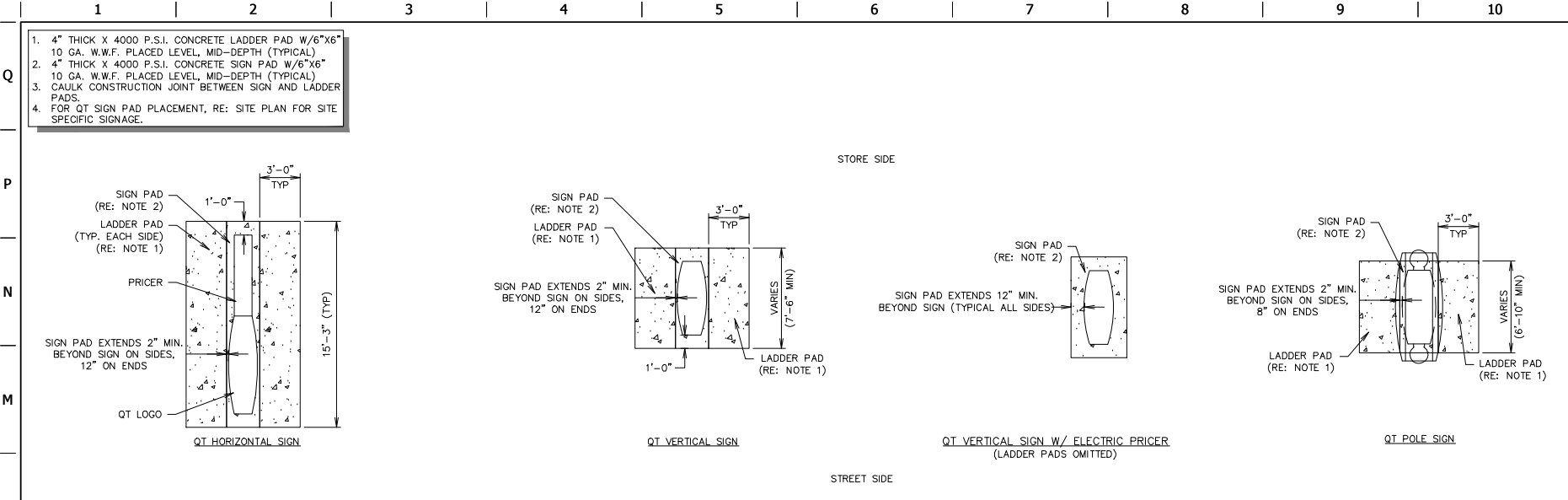


AREAS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION.

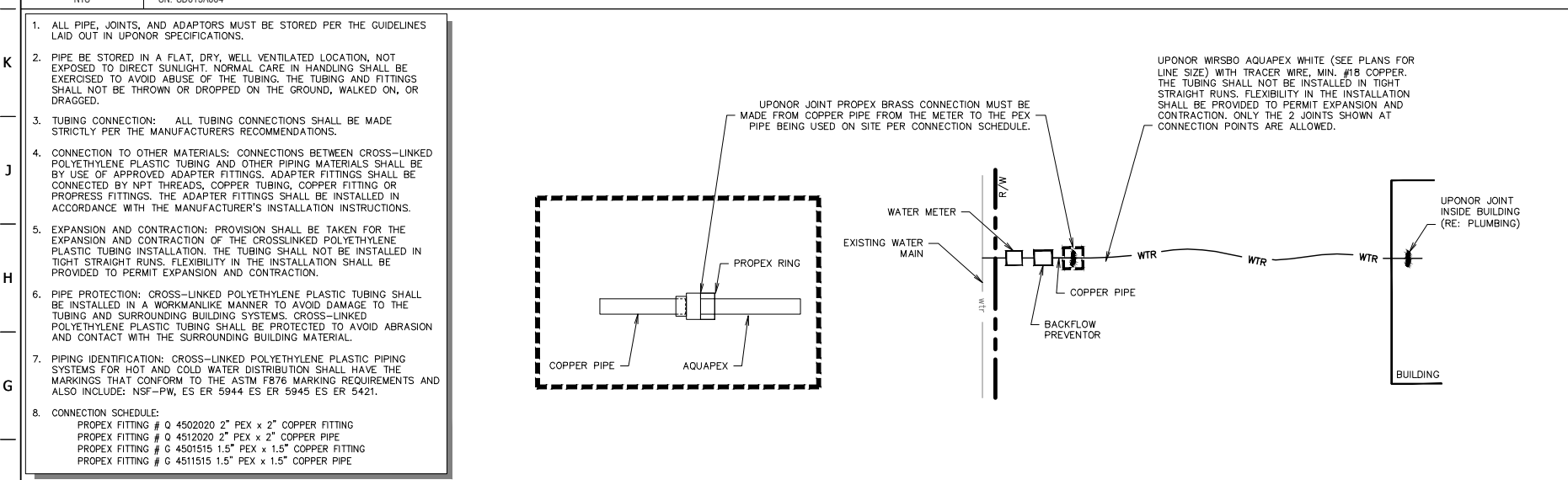
UTILITY LINES LOCATED UNDER PAVEMENT SHALL BE BACKFILLED WITH TYPE A AGGREGATE BASE COMPACTED TO 95% STANDARD DENSITY, OR FLOWABLE FILL, AS SHOWN ON PROFILES.



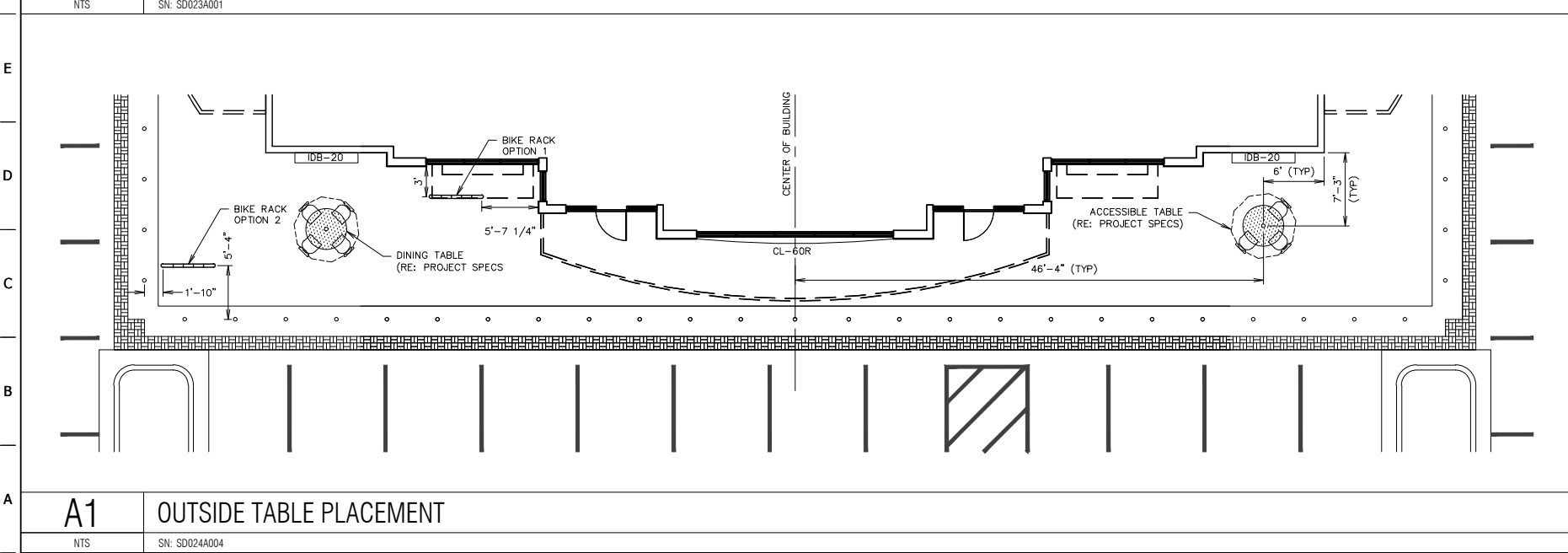
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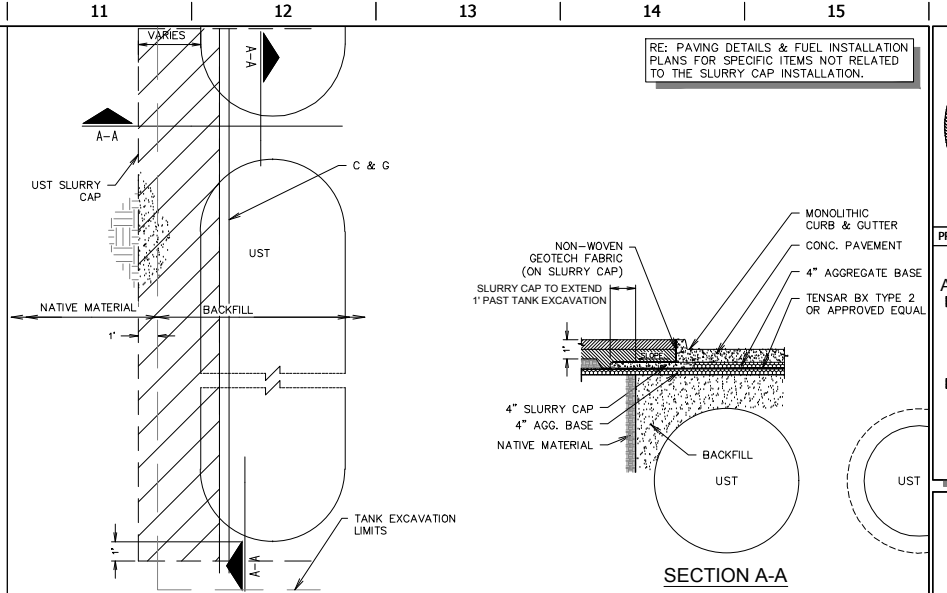
L1 GEN III SIGN PAD DETAIL
NTS SN: SD015A004



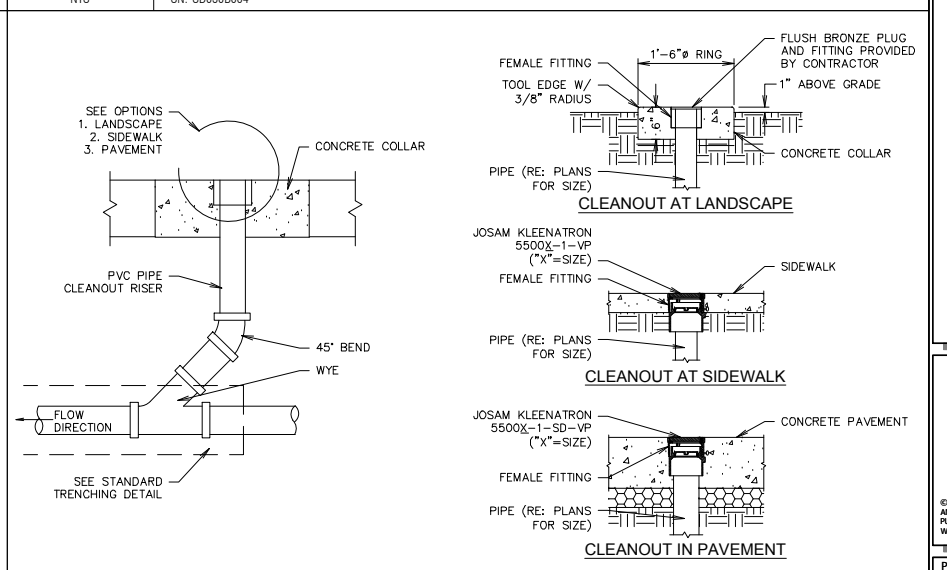
F1 PEX DETAIL - WATER METER & BFP @ STREET
NTS SN: SD023A001



A1 OUTSIDE TABLE PLACEMENT
NTS SN: SD024A004



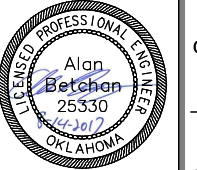
L11 2 X 2 TANK SLURRY CAP DETAIL
NTS SN: SD030B004



F11 CLEANOUT SECTION DETAIL
NTS SN: SD016A006



A11 FIRE LANE DETAIL
NTS SN:



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PROTOTYPE: P-91 (05/02/2017)
DIVISION: BROKEN ARROW
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REVIEWED BY:

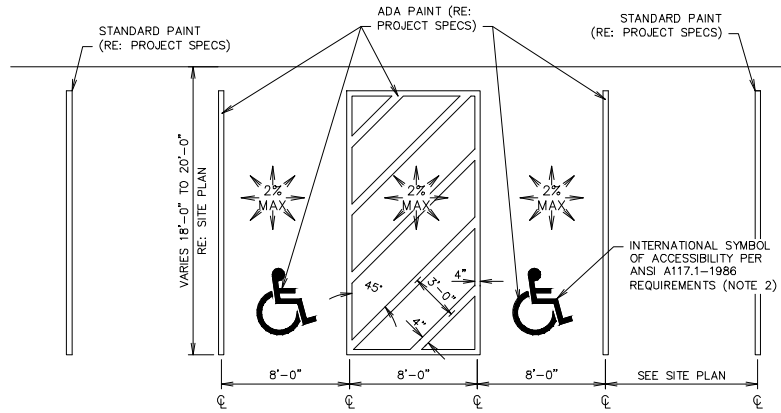
REV	DATE	DESCRIPTION

CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
MISC. SITE DETAILS

SHEET NUMBER:
C500

1. RE: SITE PLAN FOR LOCATION OF ADA PARKING SPACES AND ACCESS AISLE IN RELATIONSHIP TO THE DOOR LOCATION. (THIS DETAIL IS FOR STRIPING LAYOUT ONLY)
 2. PARKING STRIPES AND THE ADA INTERNATIONAL HANDICAP SYMBOL ARE TO BE PAINTED PER THE MANUFACTURER'S RECOMMENDATIONS. (RE: PROJECT SPECS)

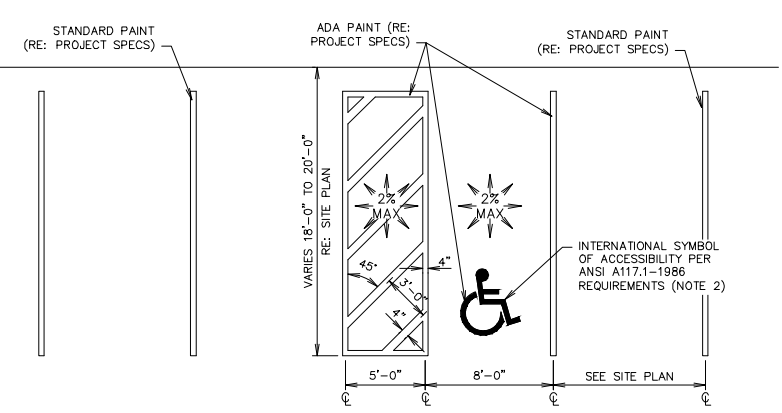


L1 DOUBLE STALL ADA PARKING STRIPING DETAIL

NTS

SN: AD001A008

1. RE: SITE PLAN FOR LOCATION OF ADA PARKING SPACES AND ACCESS AISLE IN RELATIONSHIP TO THE DOOR LOCATION. (THIS DETAIL IS FOR STRIPING LAYOUT ONLY)
 2. PARKING STRIPES AND THE ADA INTERNATIONAL HANDICAP SYMBOL ARE TO BE PAINTED PER THE MANUFACTURER'S RECOMMENDATIONS. (RE: PROJECT SPECS)

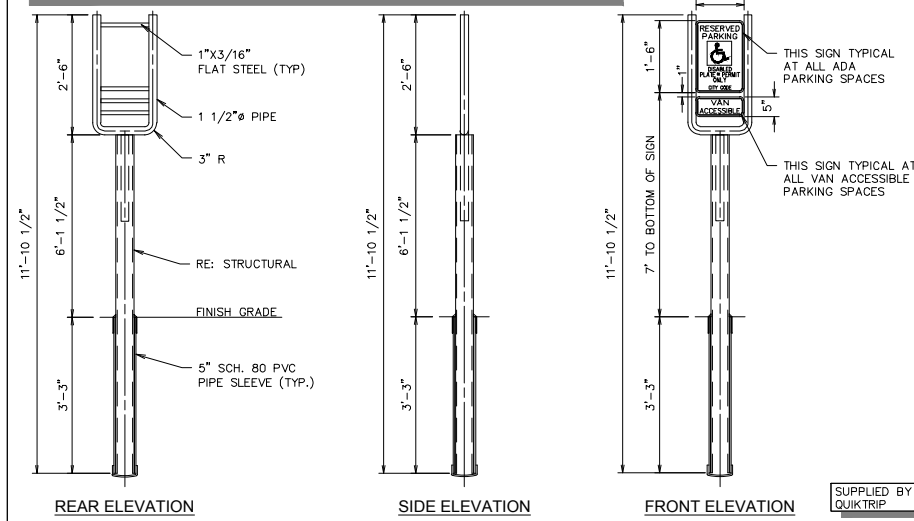


L6 SINGLE STALL ADA PARKING STRIPING DETAIL

NTS

SN: AD002A008

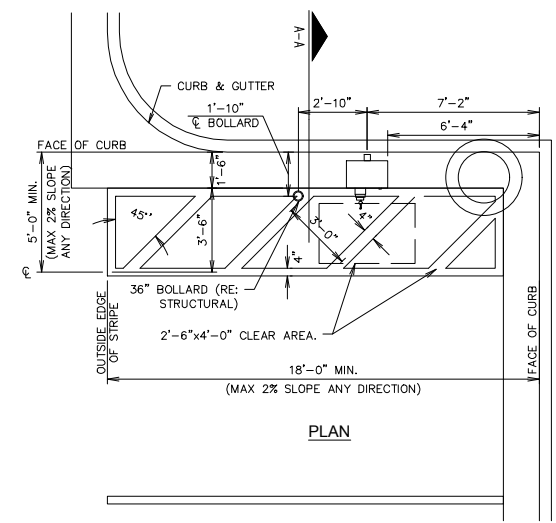
1. RE: SITE PLAN FOR DETERMINING LOCATION. 2. ADA SIGNAGE TO BE FASTENED TO FRAME USING POP RIVETS.



L11 ADA SIGN IN BOLLARD

NTS

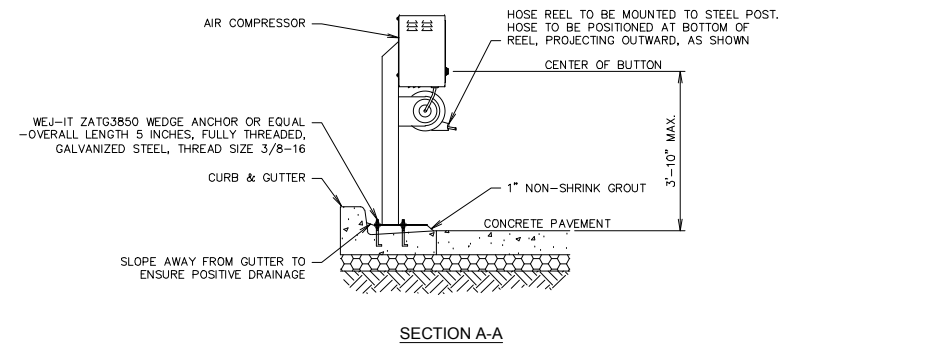
SN: AD003C006



F1 AIR SERVICE INSTALL PLAN (LEFT HAND INSTALL)

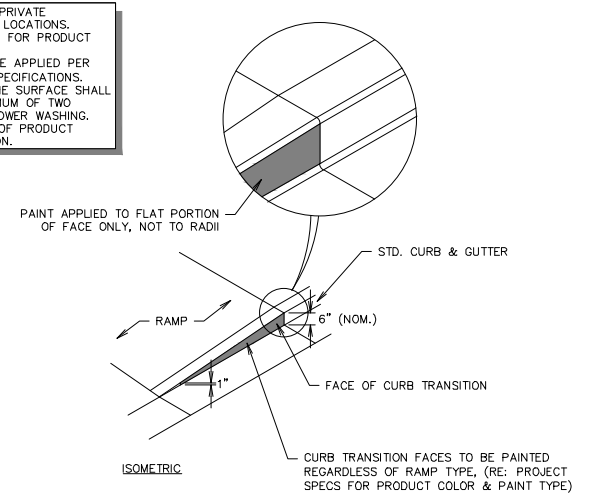
NTS

SN: AD004B009



COMPRESSOR AND STAND SUPPLIED BY QUIKTRIP

1. REQUIRED FOR ALL PRIVATE PROPERTY INTERIOR LOCATIONS.
 2. RE: PROJECT SPECS FOR PRODUCT COLOR & TYPE.
 3. PRODUCT SHOULD BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
 4. PREPARATION OF THE SURFACE SHALL CONSIST OF A MINIMUM OF TWO APPLICATIONS OF POWER WASHING.
 5. TWO APPLICATIONS OF PRODUCT SHALL BE ROLLED ON.

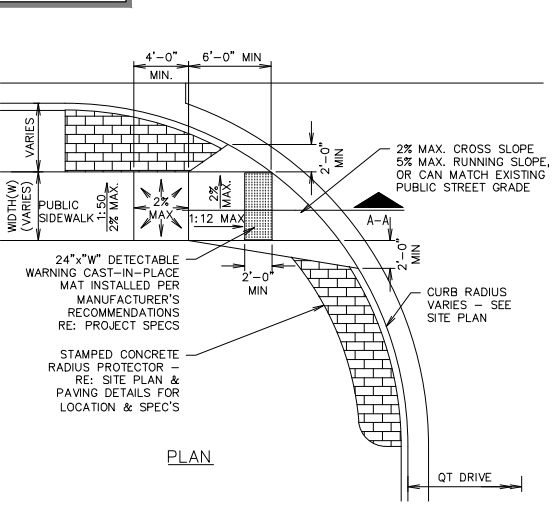


F11 RAMP - CURB TRANSITION PAINTING DETAIL

NTS

SN: AD015A002

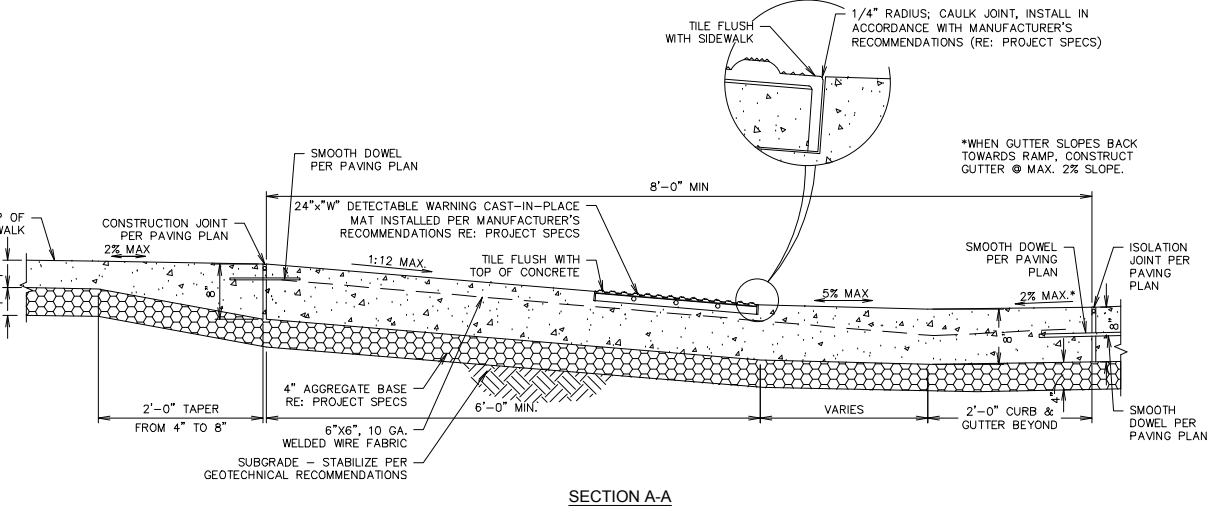
RE: SITE PLAN FOR LOCATION OF ADA RAMP



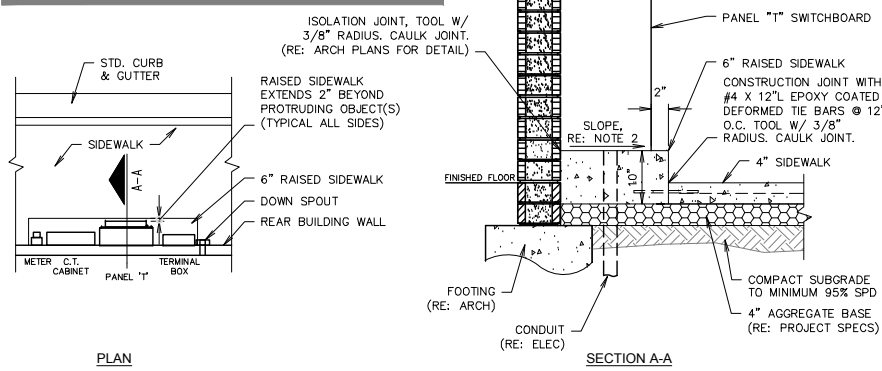
A1 ADA ACCESS RAMP AT DRIVE

NTS

SN: AD006A007



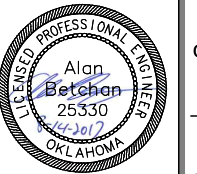
NOTES:
 1. 6" RAISED SIDEWALK IS REQUIRED WHEN AN OBJECT WHICH PROTRUDES MORE THAN 4" HAS LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE WALKING SURFACE.
 2. CANE DETECTION THAT DOUBLES AS A UTILITY CABINET BASE SHALL HAVE A LEVEL PAD FOR THE CABINET. THE REMAINING PAD BEYOND THE CABINET SHALL BE SLOPED AWAY AT 2% FOR DRAINAGE.



A11 CANE DETECTION FOR PROTRUDING OBJECTS

NTS

SN: AD014A003



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 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

REV	DATE	DESCRIPTION	CONSTRUCTION SET ISSUE DATE:

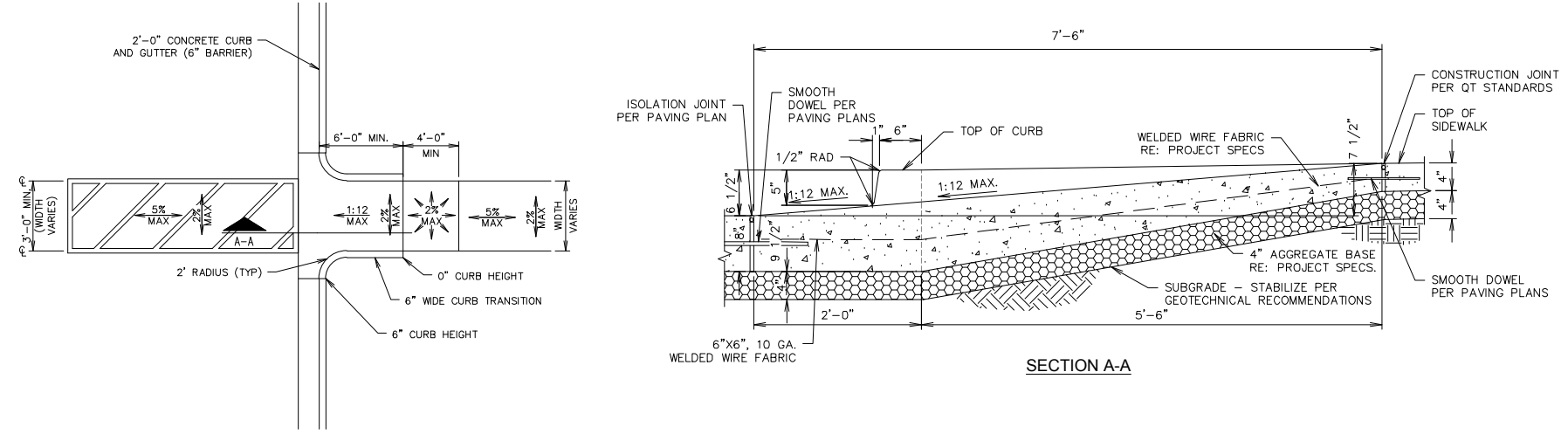
SHEET TITLE:
 ADA DETAILS

SHEET NUMBER:
C510

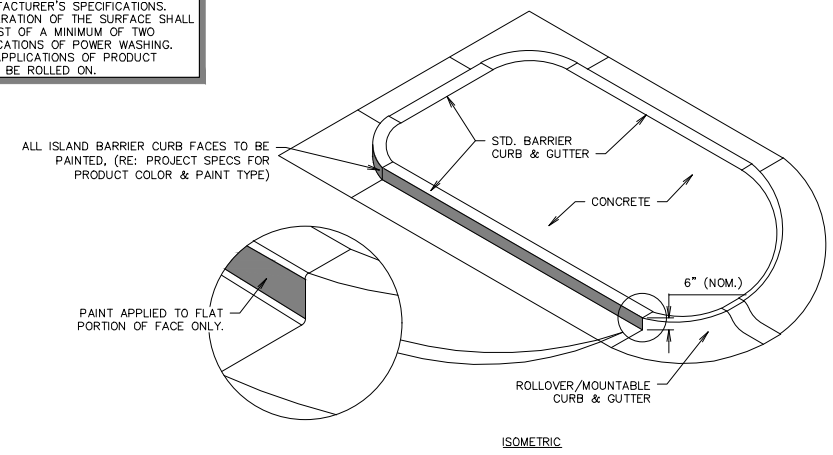
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FILE LOCATION: P:\1815\06-OT 0033\DETAILS ADA.dwg TAB NAME: ADA Detail Sheet 2 USER: Tech12 SAVED: 8/15/2017 3:42 PM PLOTTED: 8/15/2017 1:29 PM

Q															
P															
N															
M															
L	L1 NTS	NOT USED SN:			L6 NTS	NOT USED SN:			L11 NTS	NOT USED SN:					



1. REQUIRED FOR ALL PRIVATE PROPERTY INTERIOR LOCATIONS.
2. RE: PROJECT SPECS FOR PRODUCT COLOR & TYPE.
3. PRODUCT SHOULD BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
4. PREPARATION OF THE SURFACE SHALL CONSIST OF A MINIMUM OF TWO APPLICATIONS OF POWER WASHING.
5. TWO APPLICATIONS OF PRODUCT SHALL BE ROLLED ON.



F	F1 NTS	PARKING LOT CURB RAMP @ ADA CROSSING SN: AD012A003			F11 NTS	ISLAND - BARRIER CURB PAINTING DETAIL (NON-LANDSCAPED) SN: AD016A001									
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E															
D															
C															
B															
A	A1 NTS	NOT USED SN:			A6 NTS	NOT USED SN:			A11 NTS	NOT USED SN:					

LICENSED PROFESSIONAL ENGINEER
Alan Betchan
25330
8-3017
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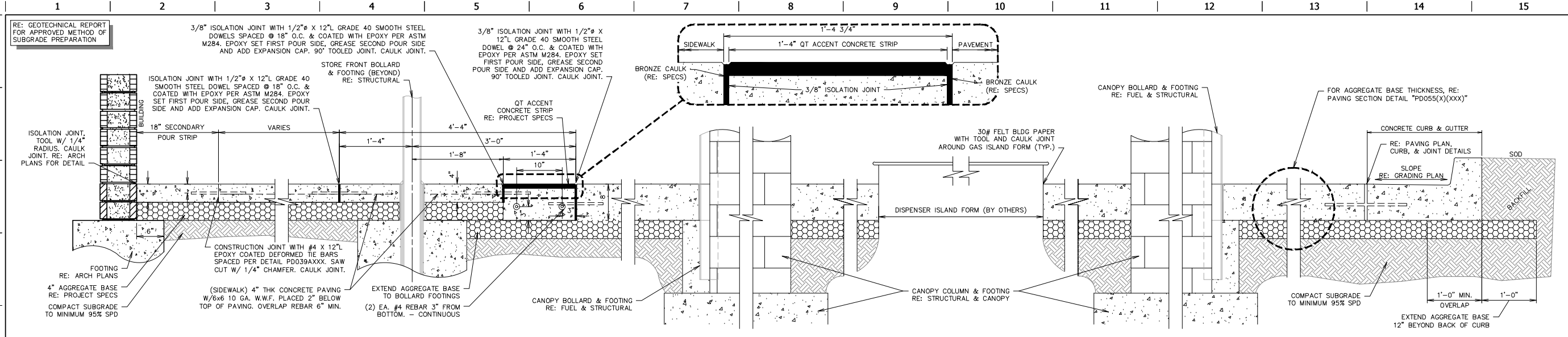
PROTOTYPE: P-91 (05/02/2017)
DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV	DATE	DESCRIPTION

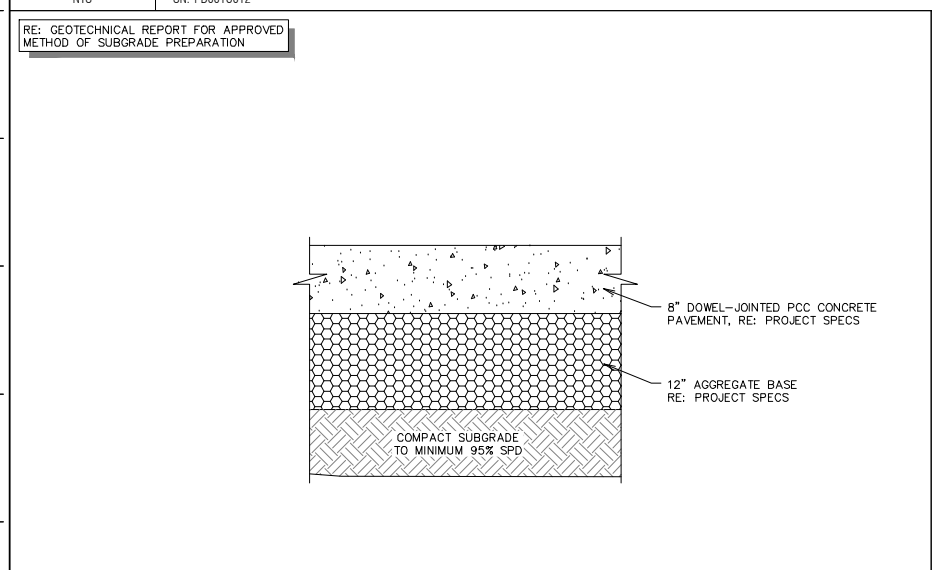
CONSTRUCTION SET ISSUE DATE:

SHEET TITLE: ADA DETAILS
SHEET NUMBER: C511

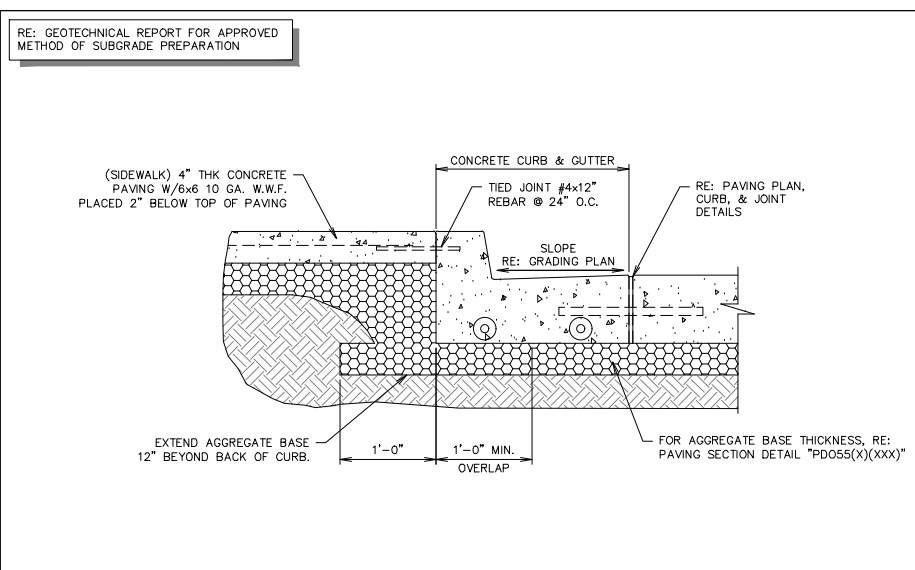
FILE LOCATION: P:\1815\06-OT_0033\DETAILS\PAVING.DWG TAB NAME: Paving Detail Sheet 1 USER: Tech1212 SAVED: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:29 PM



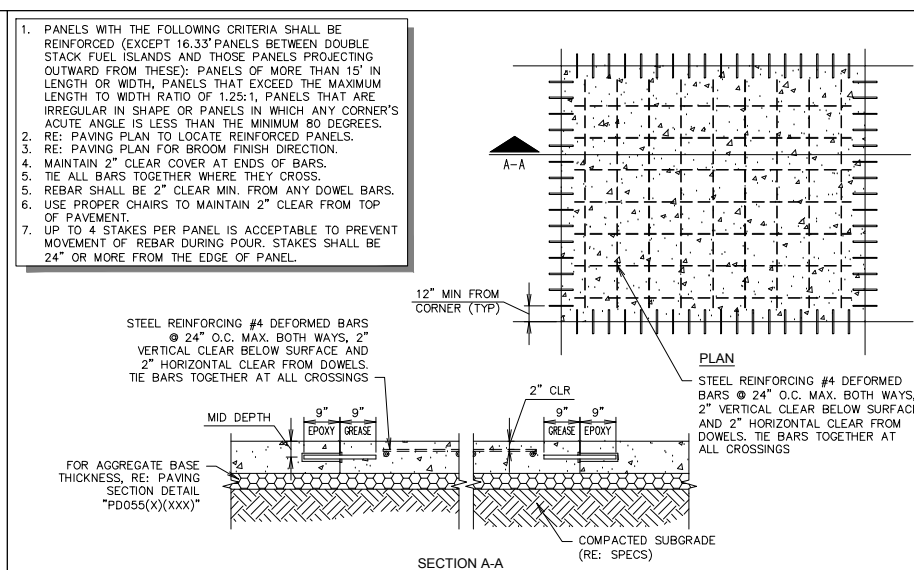
L1 PAVING SECTION THROUGH SITE W/ STORE FRONT BOLLARDS (GEN III)



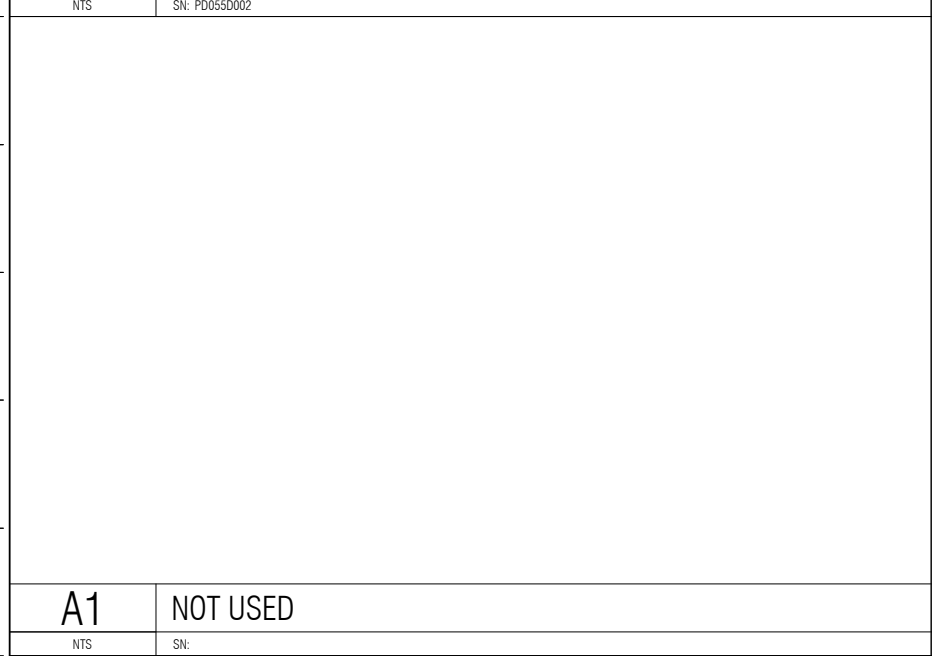
F1 PAVING SECTION DETAIL (12" AGG.)



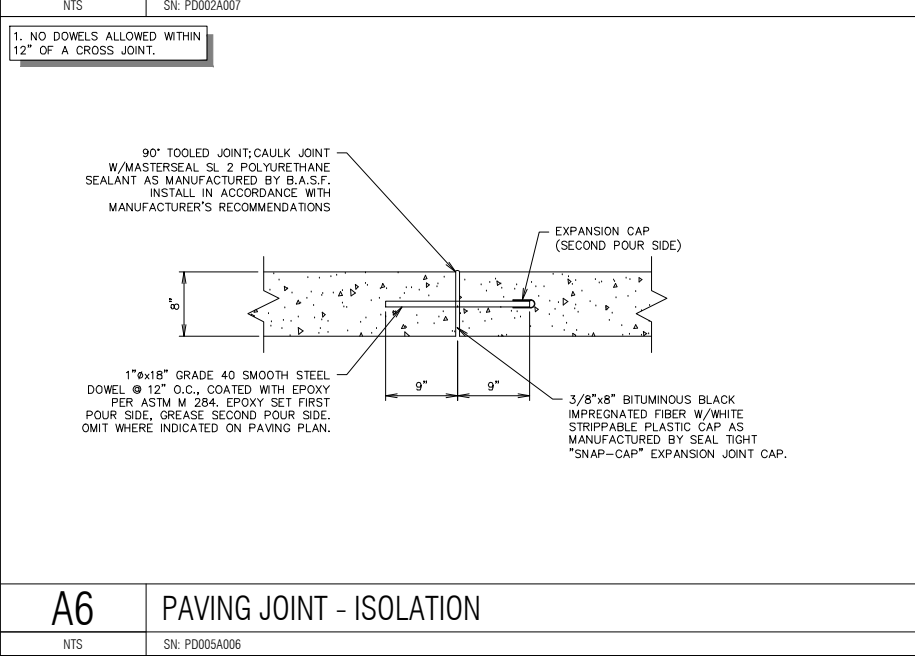
F6 SIDEWALK SECTION ABUTTING CURB & GUTTER



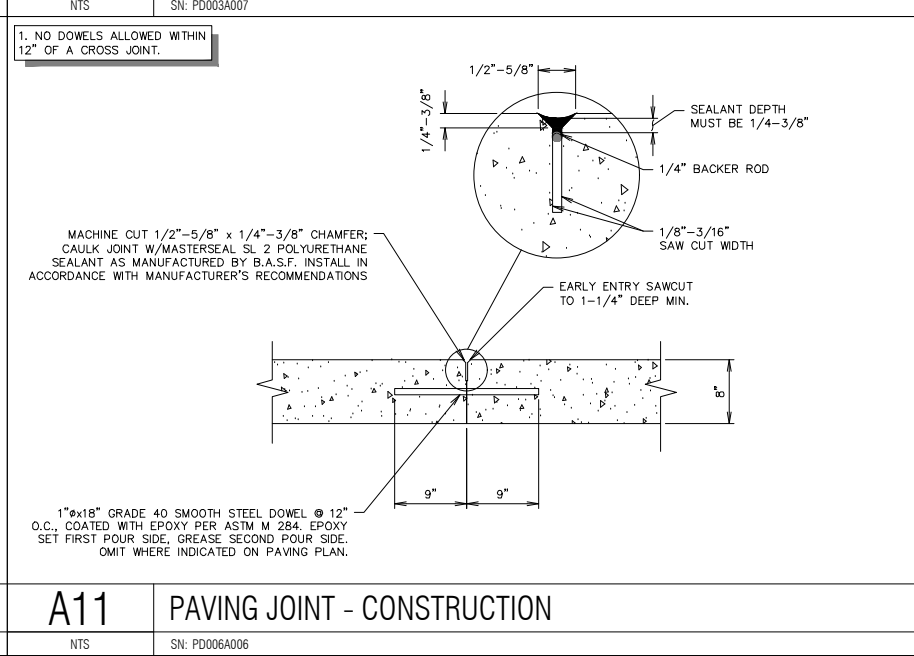
F11 PAVEMENT REINFORCING DETAIL



A1 NOT USED



A6 PAVING JOINT - ISOLATION



A11 PAVING JOINT - CONSTRUCTION

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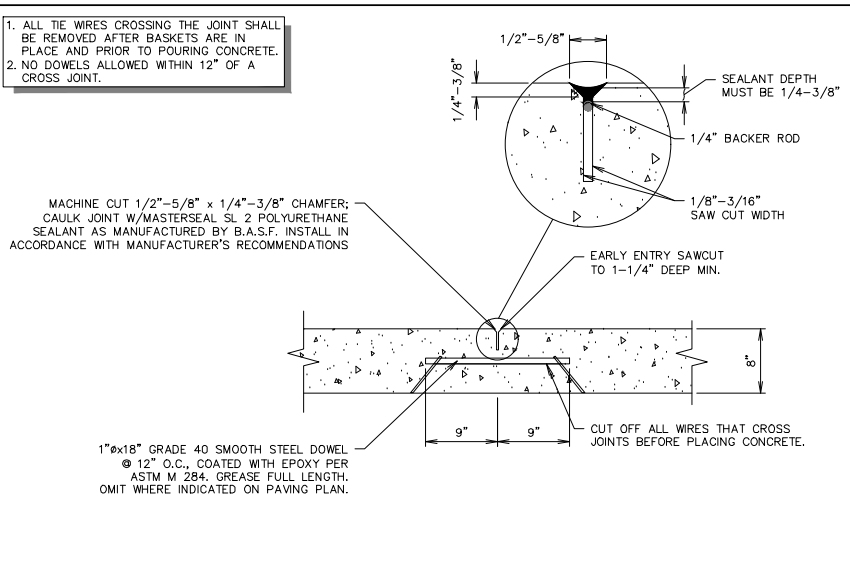
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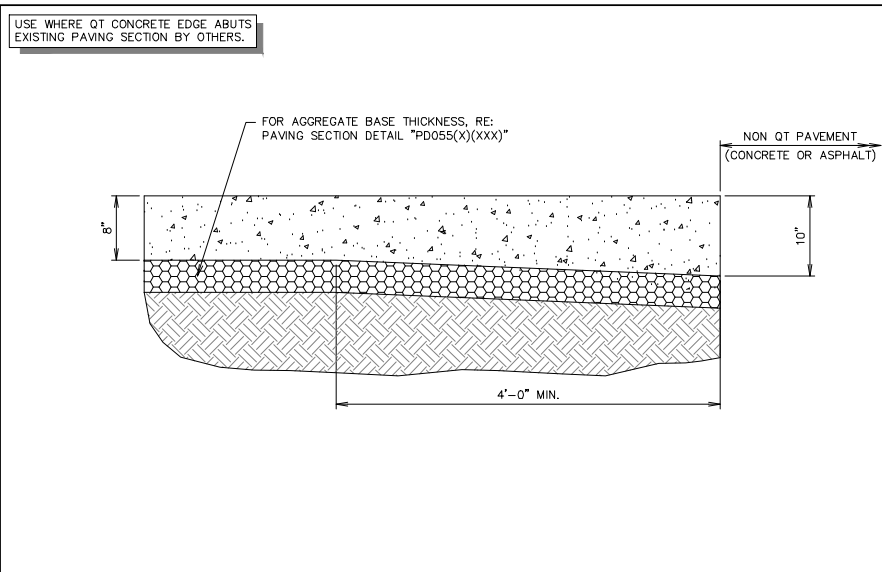
SHEET TITLE:
 PAVING DETAILS
 SHEET NUMBER:
C520

FILE LOCATION: P:\1815\06-OT_0033\DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 2 USER: Tech122 SAV: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



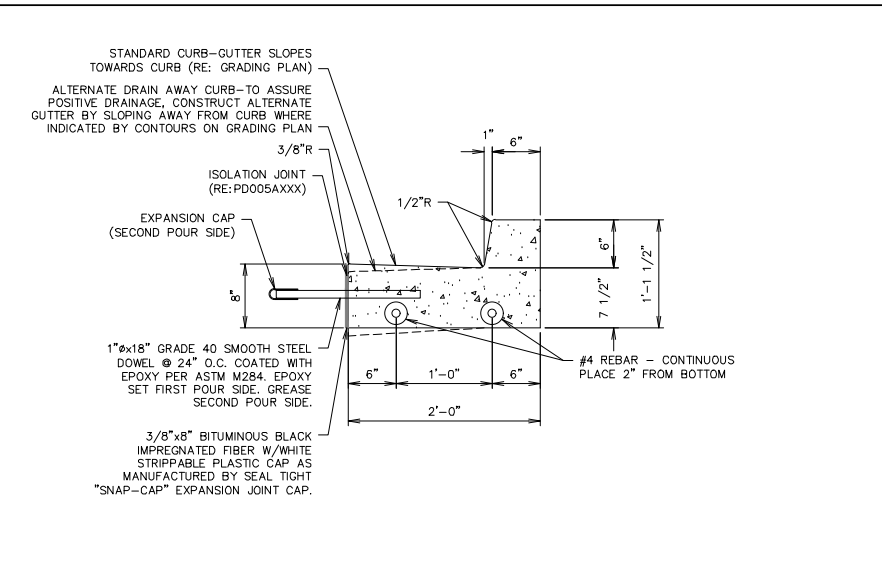
L1 PAVING JOINT - CONTRACTION

NTS SN: PD007A008



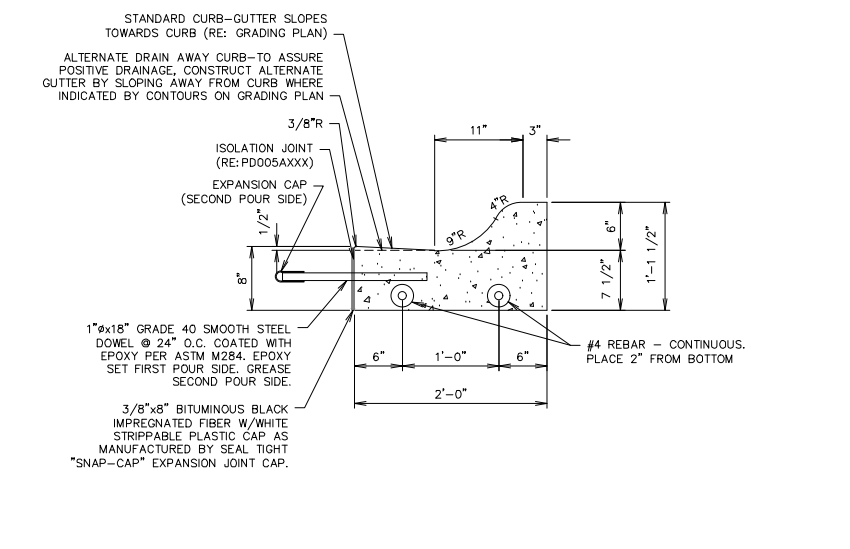
L6 THICKENED EDGE SECTION

NTS SN: PD008A006



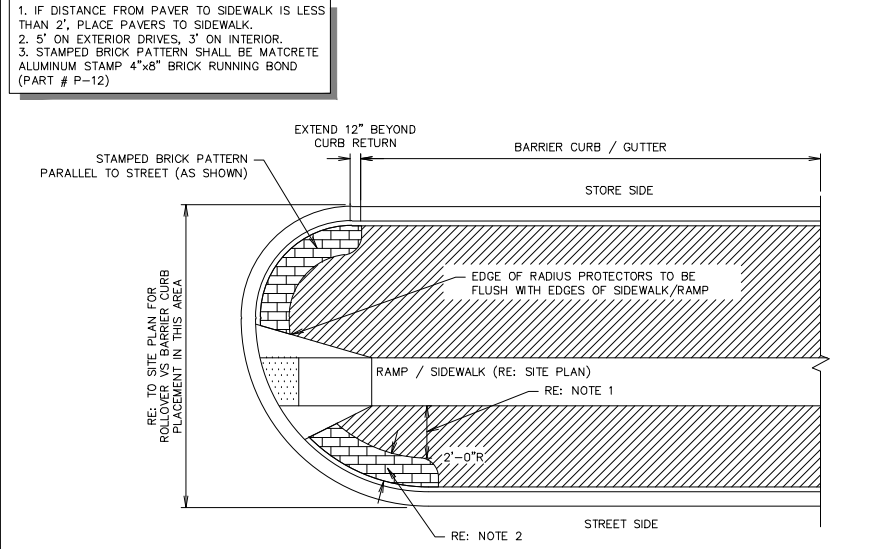
L11 CURB DETAIL - BARRIER

NTS SN: PD009A009



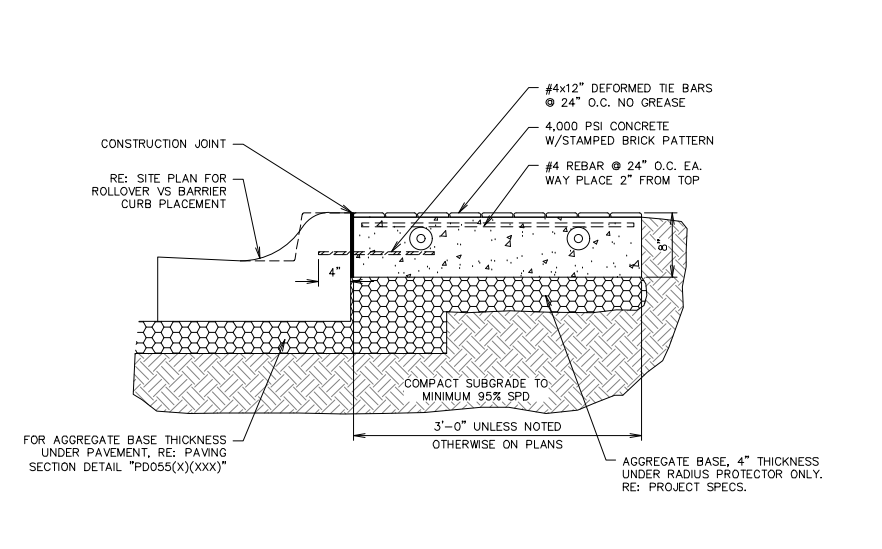
F1 CURB DETAIL - ROLLOVER / MOUNTABLE

NTS SN: PD010B008



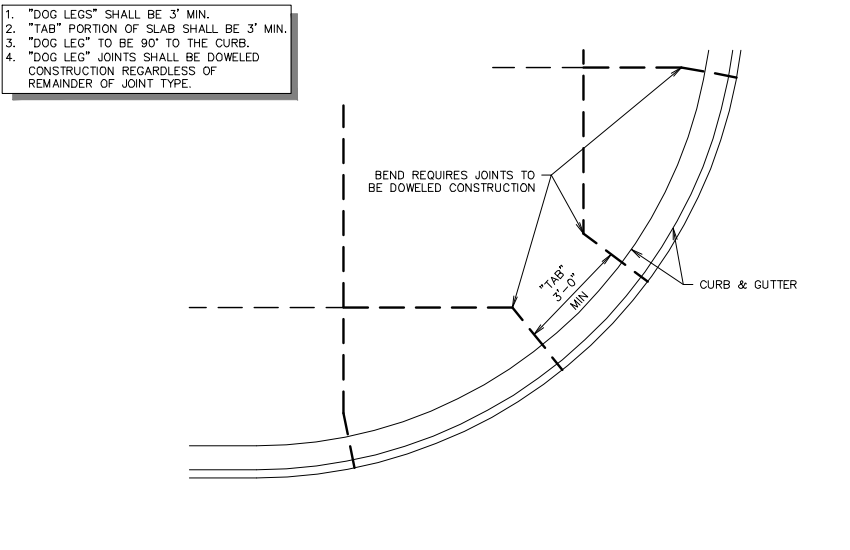
F6 RADIUS PROTECTOR PLAN

NTS SN: PD016A003



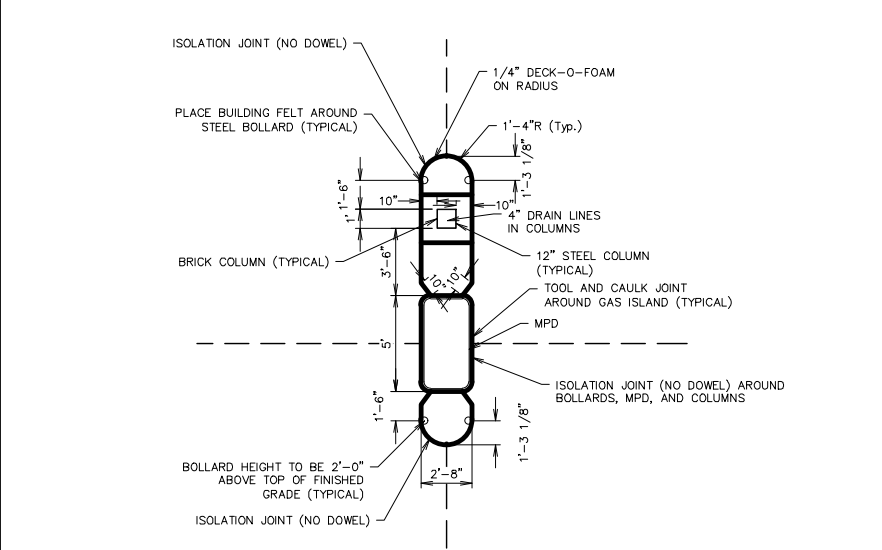
F11 STANDARD RADIUS PROTECTOR SECTION

NTS SN: PD017A008



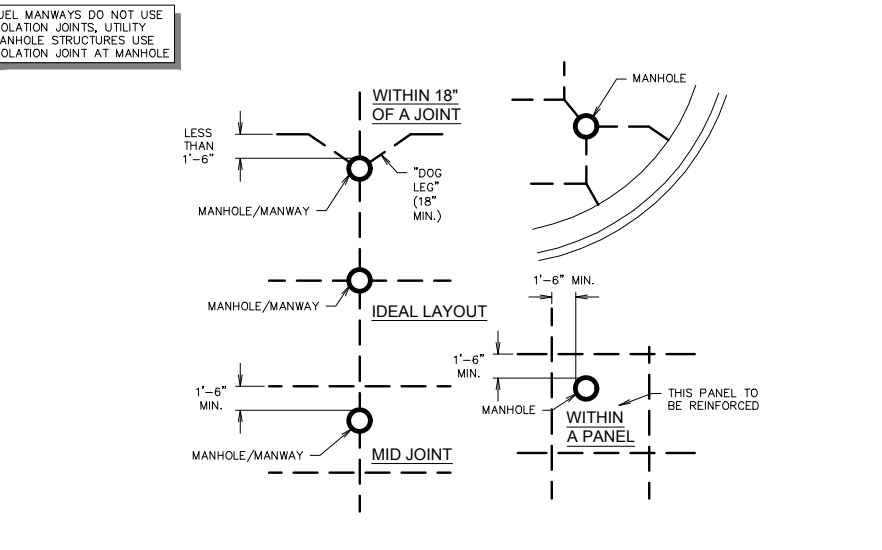
A1 TYPICAL JOINT LAYOUT - AT RADIUS AND ANGLES

NTS SN: PD019A007



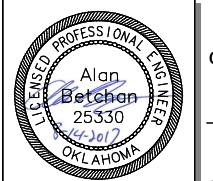
A6 MPD BLOWUP DETAIL

NTS SN:



A11 TYPICAL MANHOLE / FUEL MANWAY JOINT LAYOUTS

NTS SN: PD021A003



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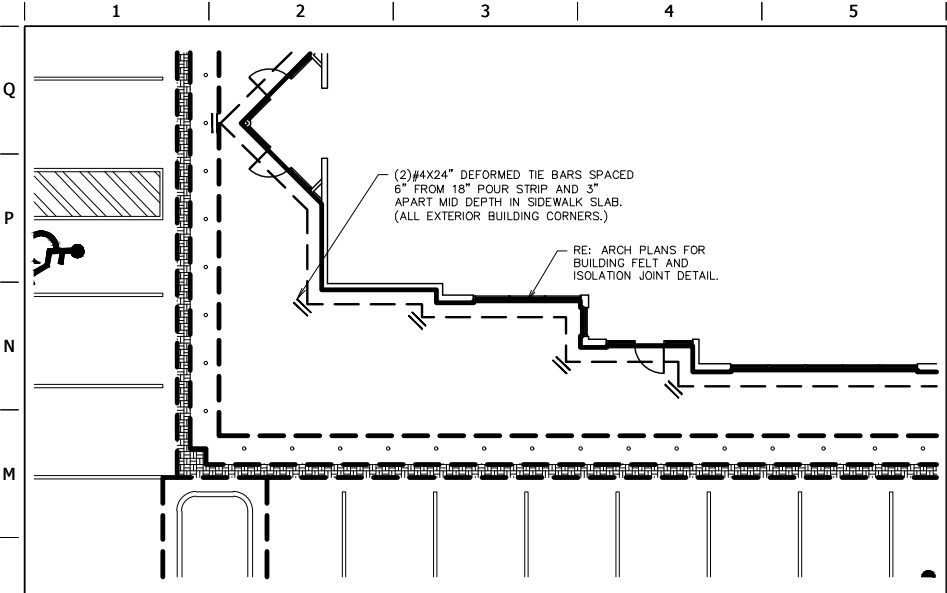
REV	DATE	DESCRIPTION

SHEET TITLE:
PAVING DETAILS

SHEET NUMBER:
C521

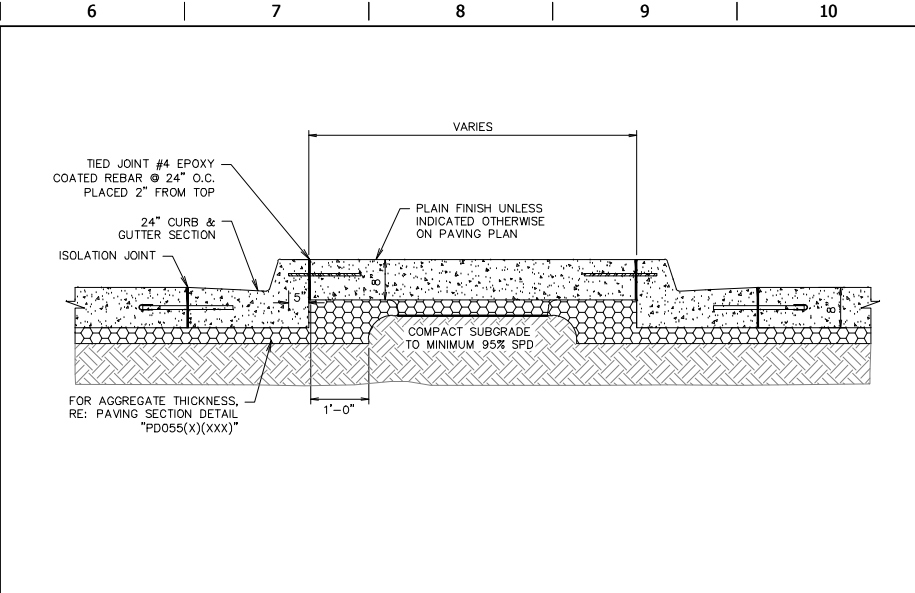
CONSTRUCTION SET ISSUE DATE:

FILE LOCATION: P:\1815\06-QT 0033\DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 3 USER: Tech12 SAVED: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



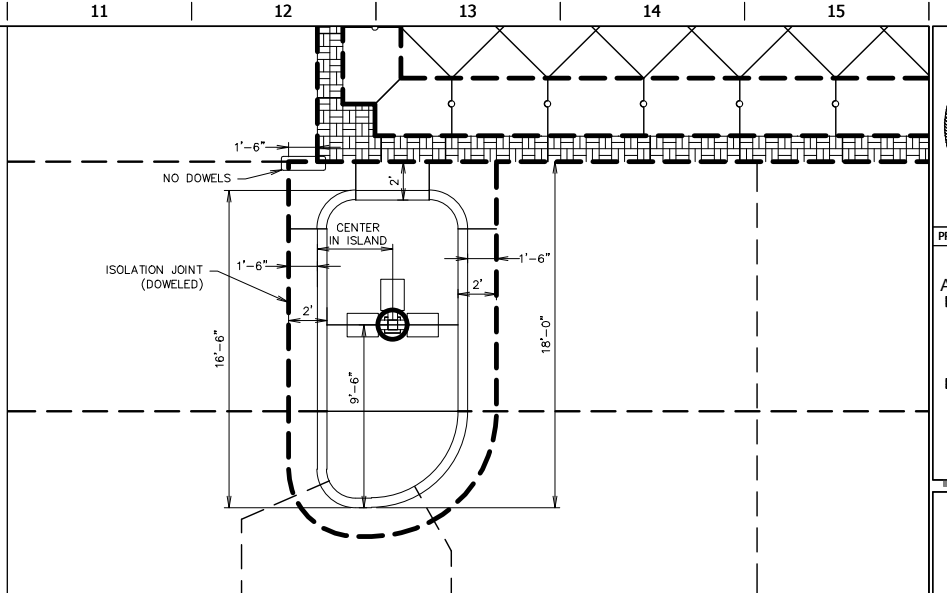
L1 GEN III SIDEWALK REINFORCING AT BUILDING CORNERS

NTS SN: PD022A006



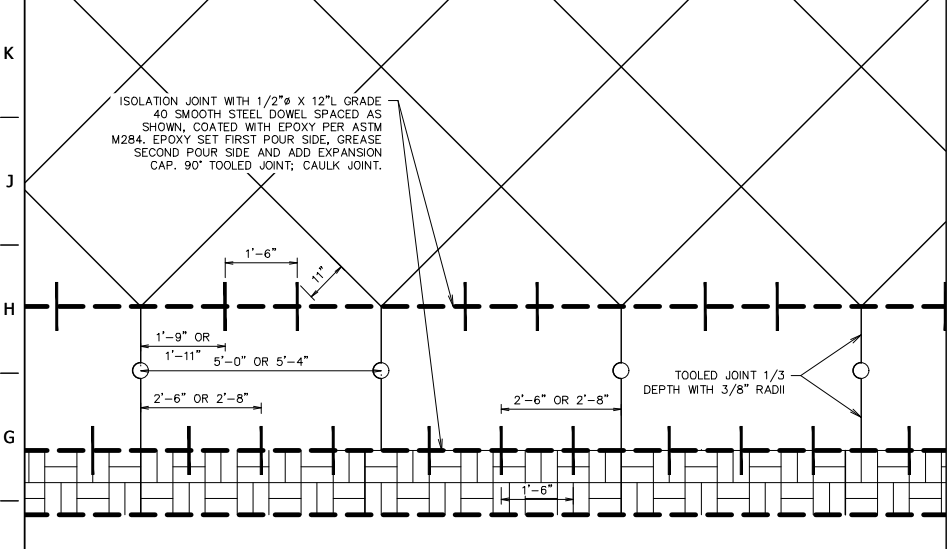
L6 ISLAND SECTION B-B

NTS SN: PD024A007



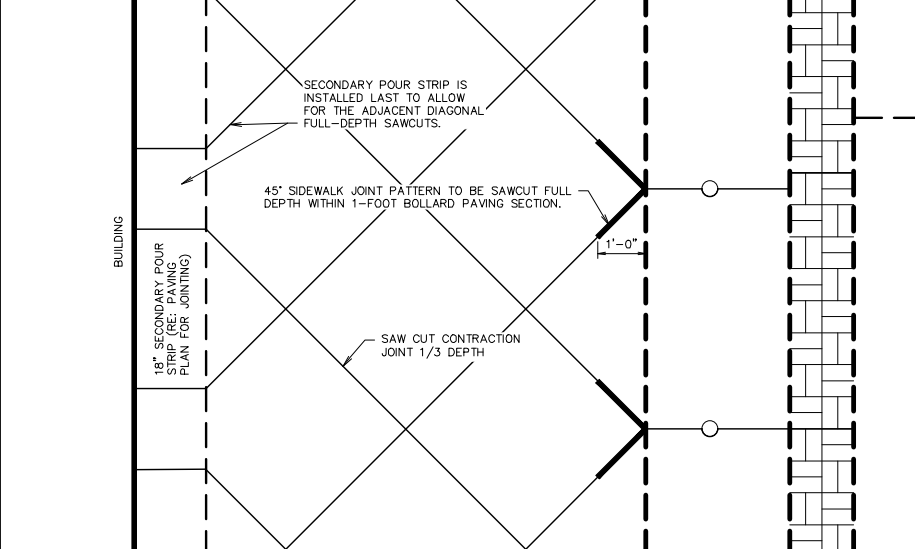
L11 TYPE A ISLAND JOINT DETAIL

NTS SN: PD035A007



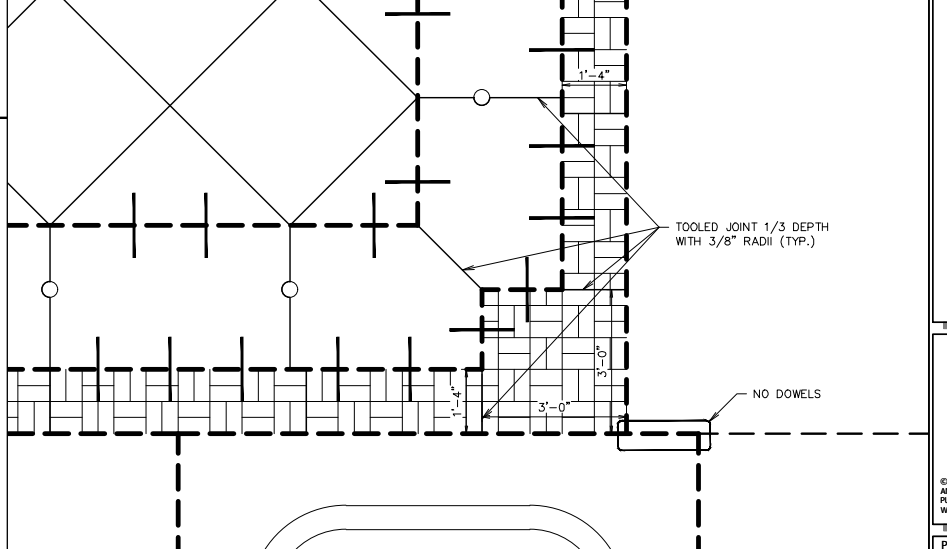
F1 DOWELED EXPANSION JOINTS AT BOLLARD PAVEMENT SECTION

NTS SN: PD036A003



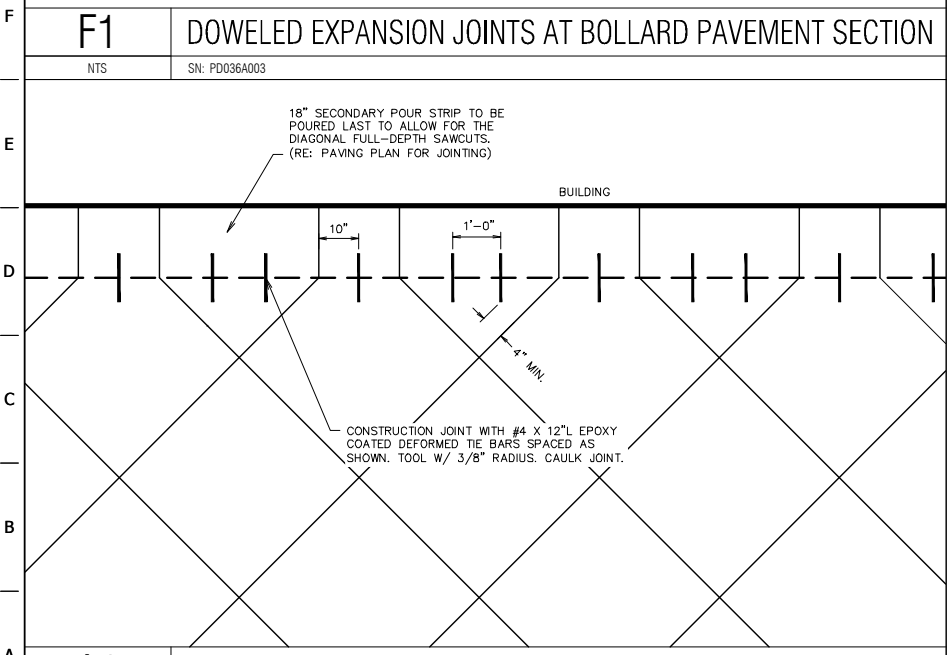
F6 45° SIDEWALK JOINT SAWCUT DETAIL

NTS SN: PD037A005



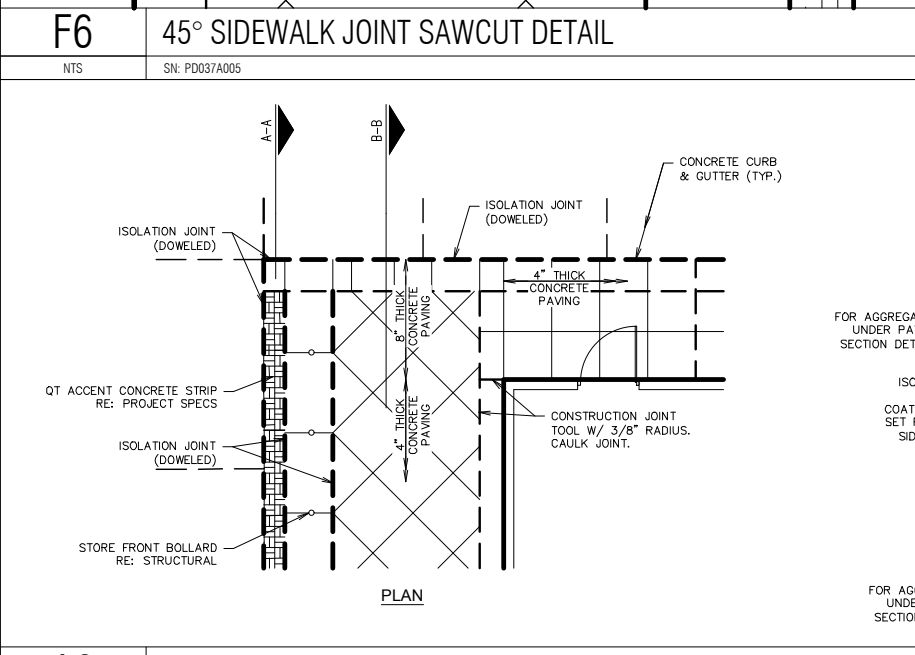
F11 FRONT SIDEWALK QT ACCENT CONCRETE STRIP CORNER DETAIL

NTS SN: PD038A003



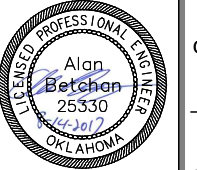
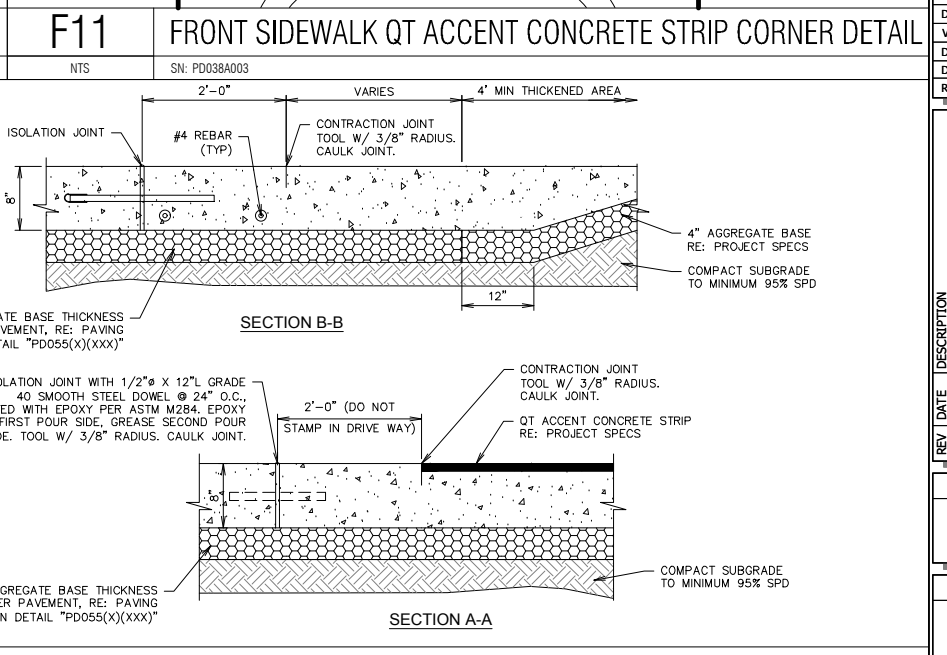
A1 DOWELED JOINT BETWEEN POUR STRIP & FRONT SIDEWALK DETAIL

NTS SN: PD039A002



A6 GEN III QT ACCENT CONCRETE TERMINATION DETAIL

NTS SN: PD040A010



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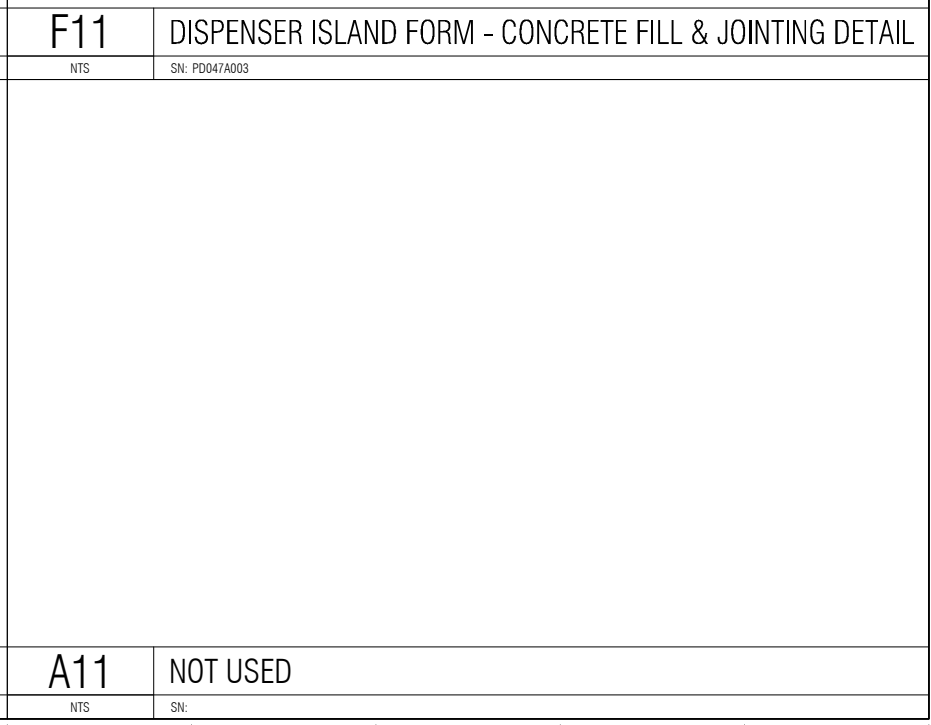
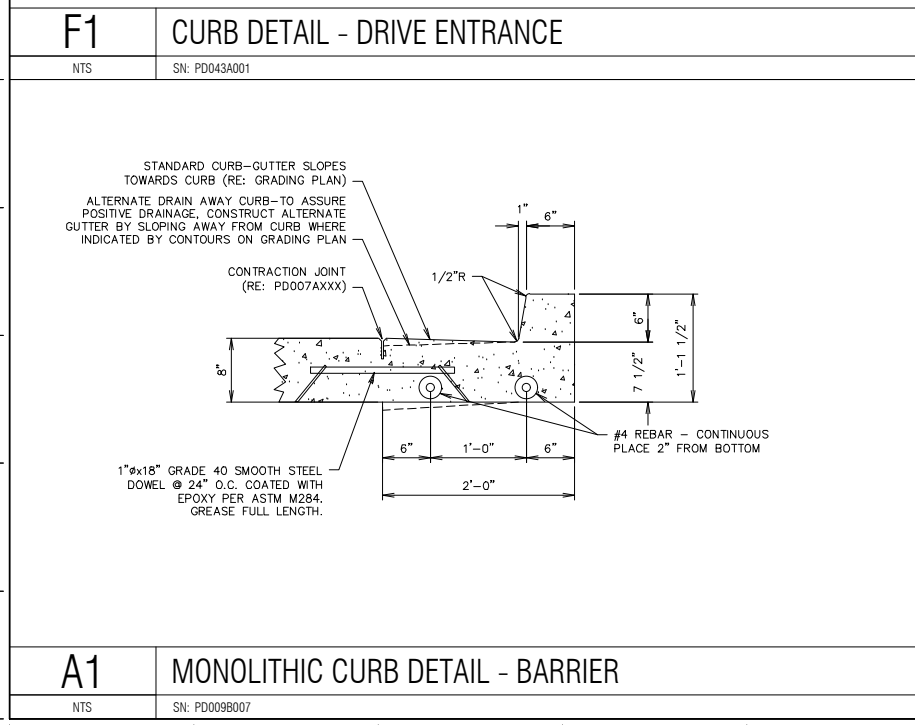
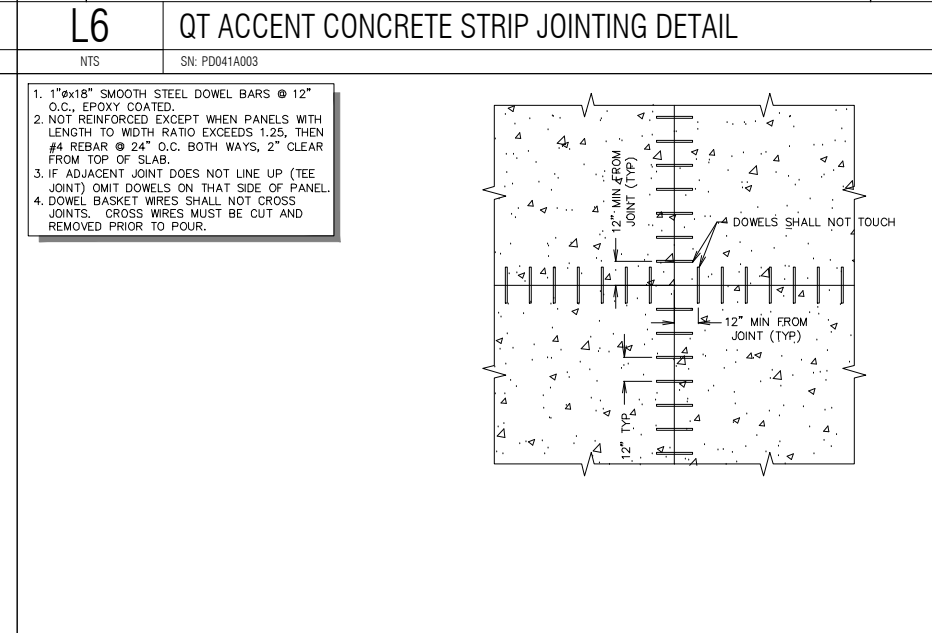
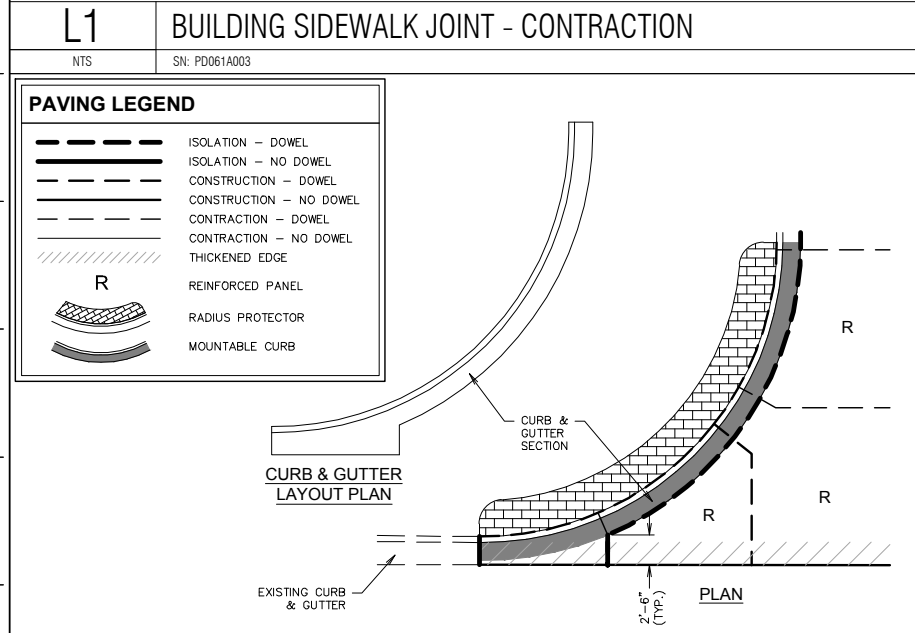
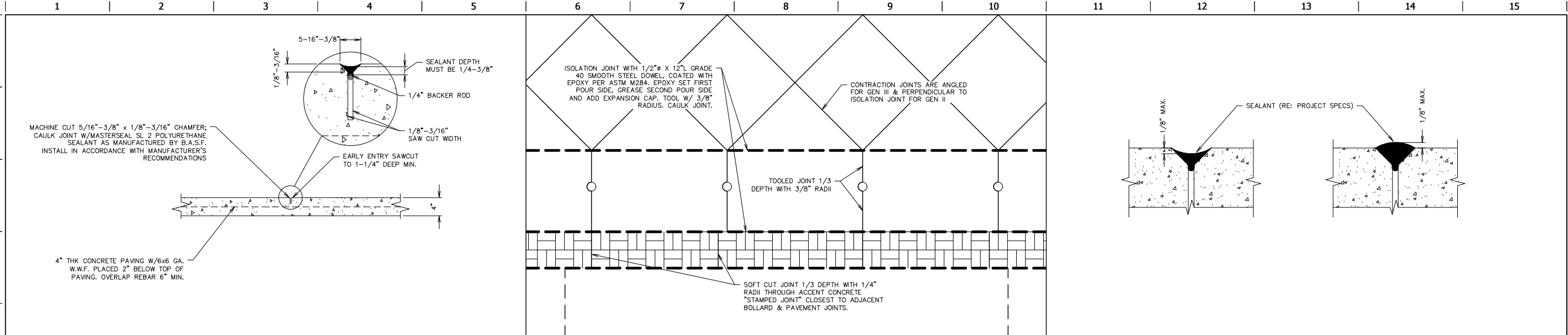
PROTOTYPE: P-91 (05/02/2017)
 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
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SHEET TITLE:
 PAVING DETAILS

SHEET NUMBER:
C522

FILE LOCATION: P:\1815\06-07_0033\DETAILS PAVING.DWG TAB NAME: Paving Detail Sheet 4 USER: Tech12 SAVED: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



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REV	DATE	DESCRIPTION

CONSTRUCTION SET ISSUE DATE:

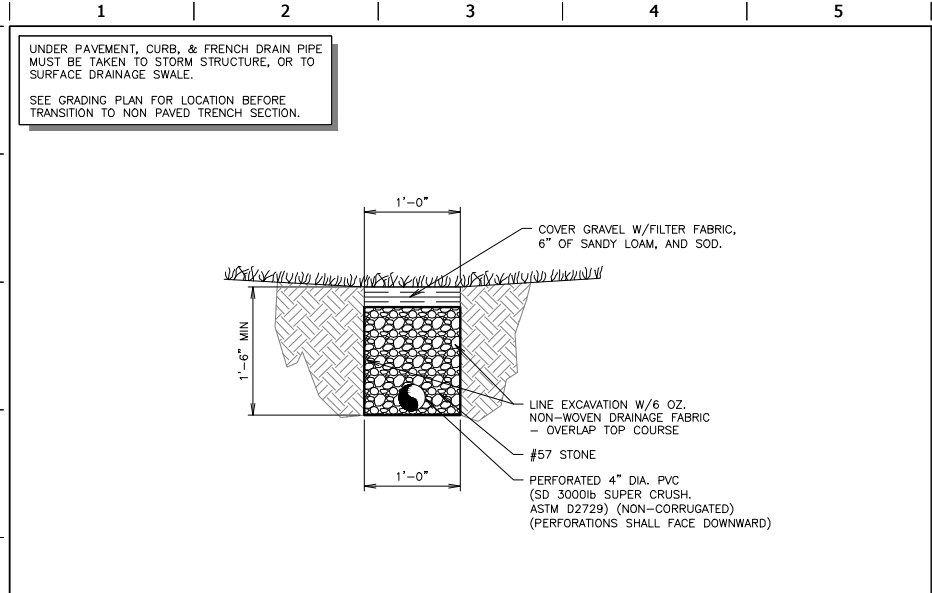
SHEET TITLE:

PAVING DETAILS

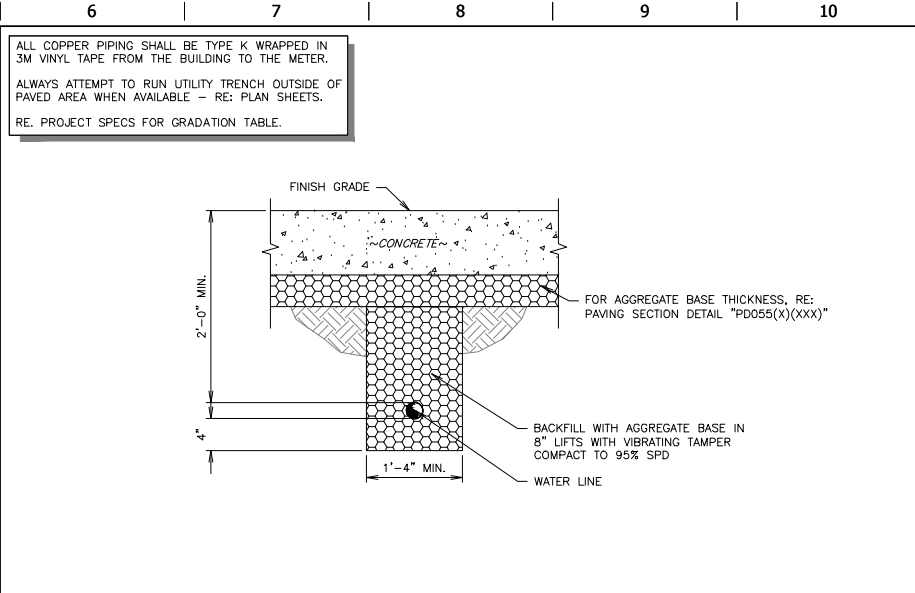
SHEET NUMBER:

C523

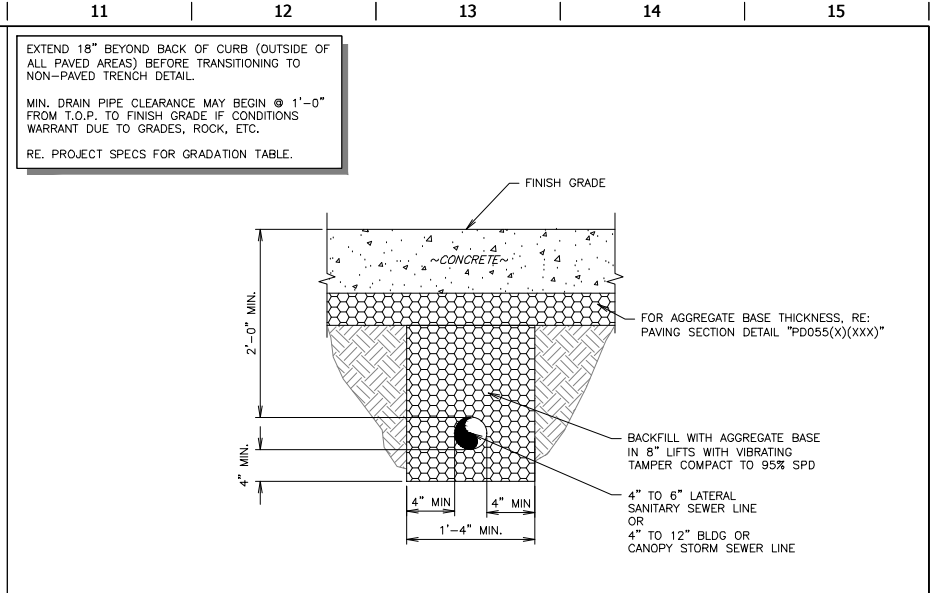
FILE LOCATION: P:\1815\06-01-0033\DETAILS TRENCHING.dwg TAB NAME: Trenching Detail Sheet 1 USER: Tech12 SAVED: 8/15/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



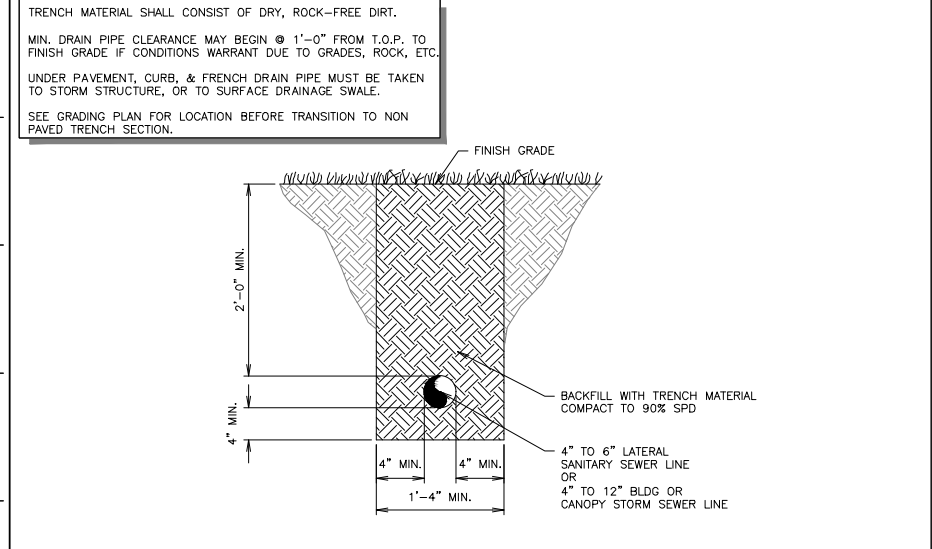
L1 FRENCH DRAIN SECTION
NTS SN: TD004A004



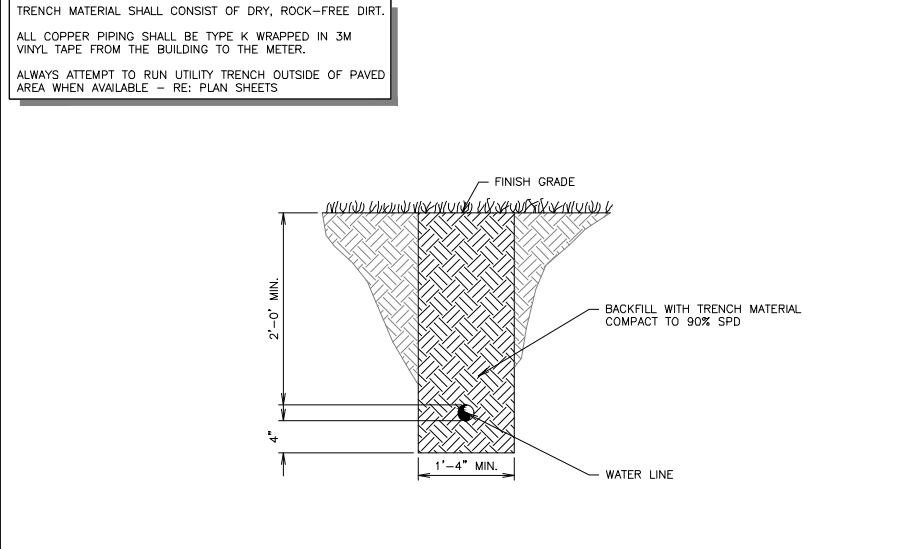
L6 ON-SITE WATER LINE TRENCH SECTION (PAVED)
NTS SN: TD005A004



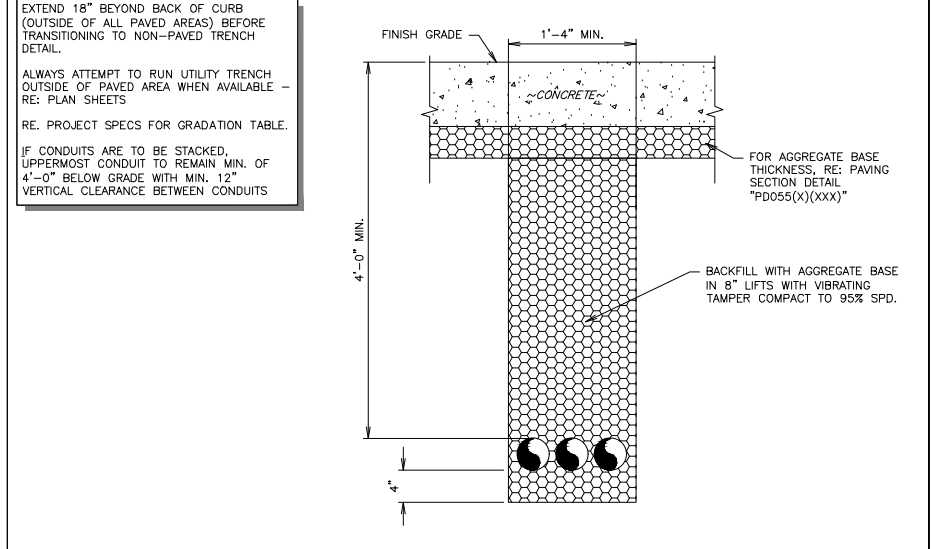
L11 BUILDING OR CANOPY DRAINAGE TRENCH SECTION (PAVED)
NTS SN: TD006A004



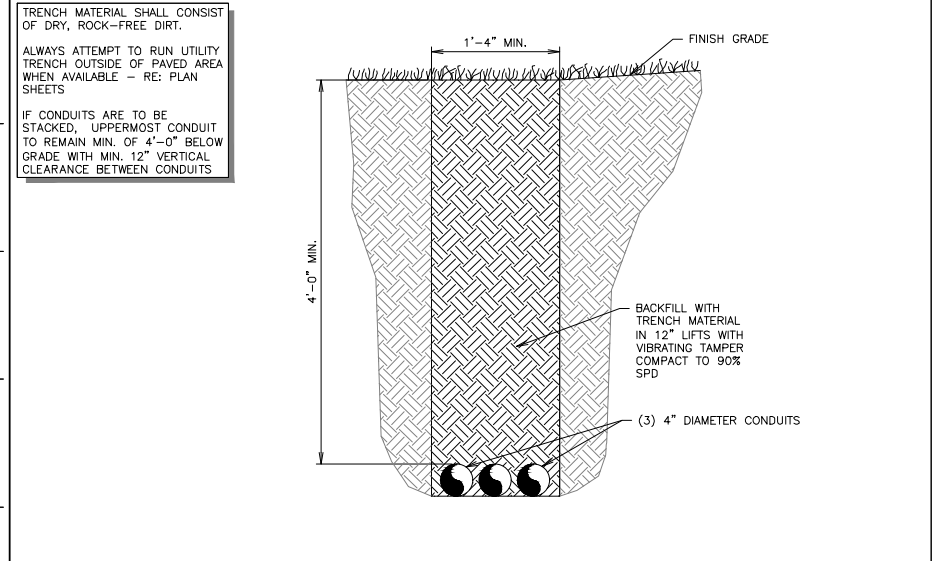
F1 BUILDING OR CANOPY DRAINAGE TRENCH SECTION (NON PAVED)
NTS SN: TD007A002



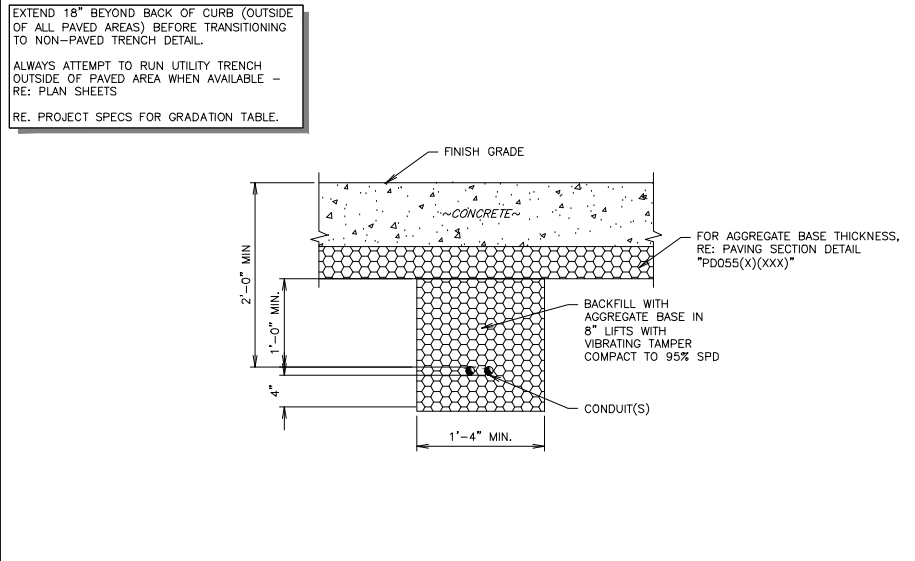
F6 ON-SITE WATER LINE TRENCH SECTION (NON PAVED)
NTS SN: TD008A002



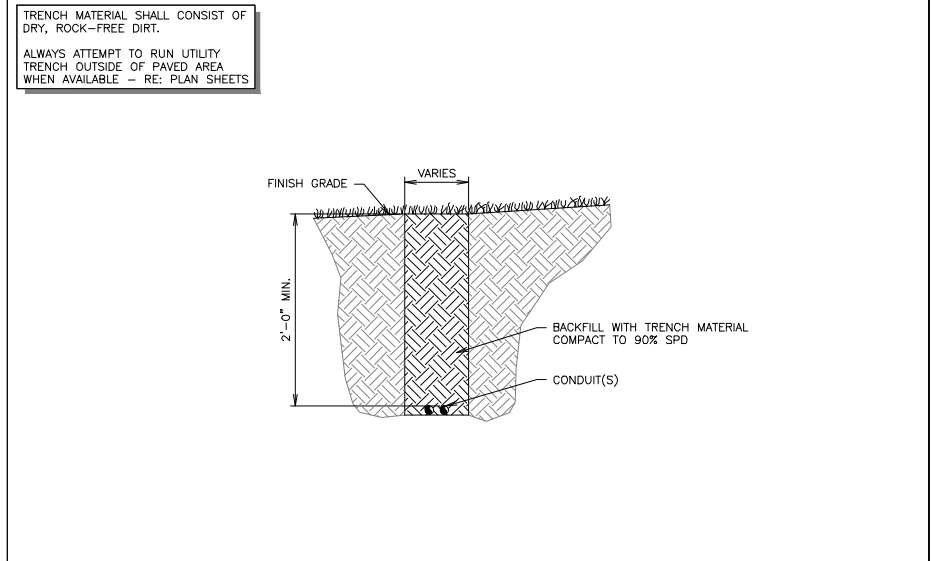
F11 PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (PAVED)
NTS SN: TD010A004



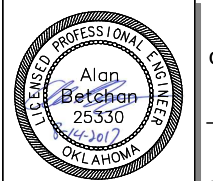
A1 PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (NON PAVED)
NTS SN: TD011A002



A6 1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (PAVED)
NTS SN: TD012A004

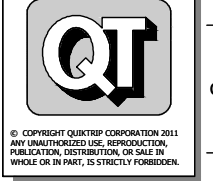


A11 1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (UNPAVED)
NTS SN: TD013A003



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DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

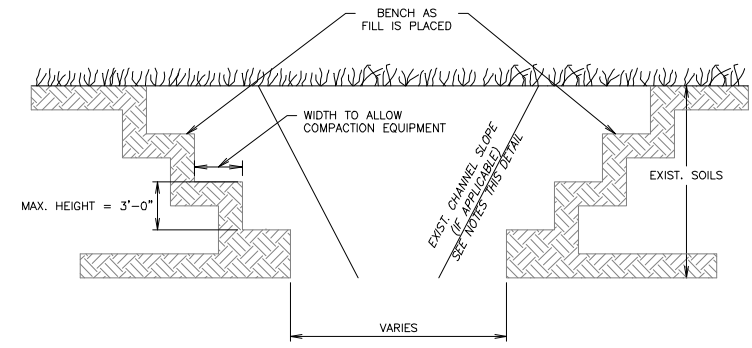
REV	DATE	DESCRIPTION	CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
TRENCHING DETAILS

SHEET NUMBER:
C530

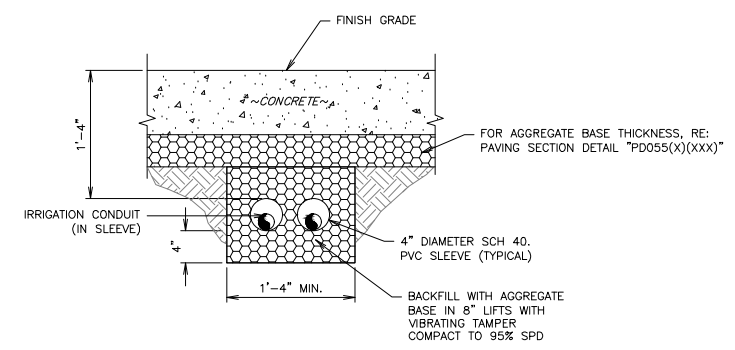
FILE LOCATION: P:\1815\06-OT 0033\DETAILS TRENCHING.dwg TAB NAME: Trenching Details Sheet 2 USER: Tech12 SAVED: 8/15/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM

EXISTING CHANNEL EXCAVATION NOTES:
 1. MUCK TO SUITABLE SOIL OR BEDROCK (SEE QT REP).
 2. #57 STONE WITH FILTER FABRIC AT BOTTOM OF FINISHED CHANNEL - TO BE PLACED IF BEDROCK IS ENCOUNTERED.



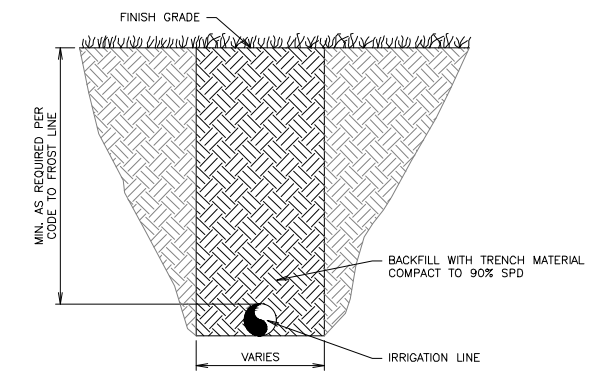
L1 EXCAVATION BENCHING DETAIL
 NTS SN: TD014A002

EXTEND THIS SECTION 5' BEYOND BACK OF CURB (OUTSIDE EDGE OF DRIVE)
 RE. PROJECT SPECS FOR GRADATION TABLE.



L6 TYPICAL IRRIGATION PIPING TRENCH SECTION (PAVED)
 NTS SN: TD015A004

TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT.



L11 TYPICAL IRRIGATION PIPING TRENCH SECTION (NON PAVED)
 NTS SN: TD016A002

F1 NOT USED
 NTS SN:

F6 NOT USED
 NTS SN:

F11 NOT USED
 NTS SN:

A1 NOT USED
 NTS SN:

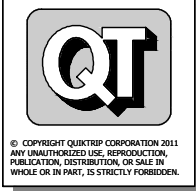
A6 NOT USED
 NTS SN:

A11 NOT USED
 NTS SN:



PROJECT NO.:
AAB Engineering, LLC
AAB
 Engineering • Surveying
 P.O. Box 2136
 Sand Springs, OK 74063
 OK CA#6318 Exp. June 30, 2018
 Office: (918) 514-4263
 Fax: (918) 514-4288

QuikTrip No. 0033
 2400 E. KENOSHA ST.
 BROKEN ARROW, OK



PROTOTYPE: P-91 (05/02/2017)
 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

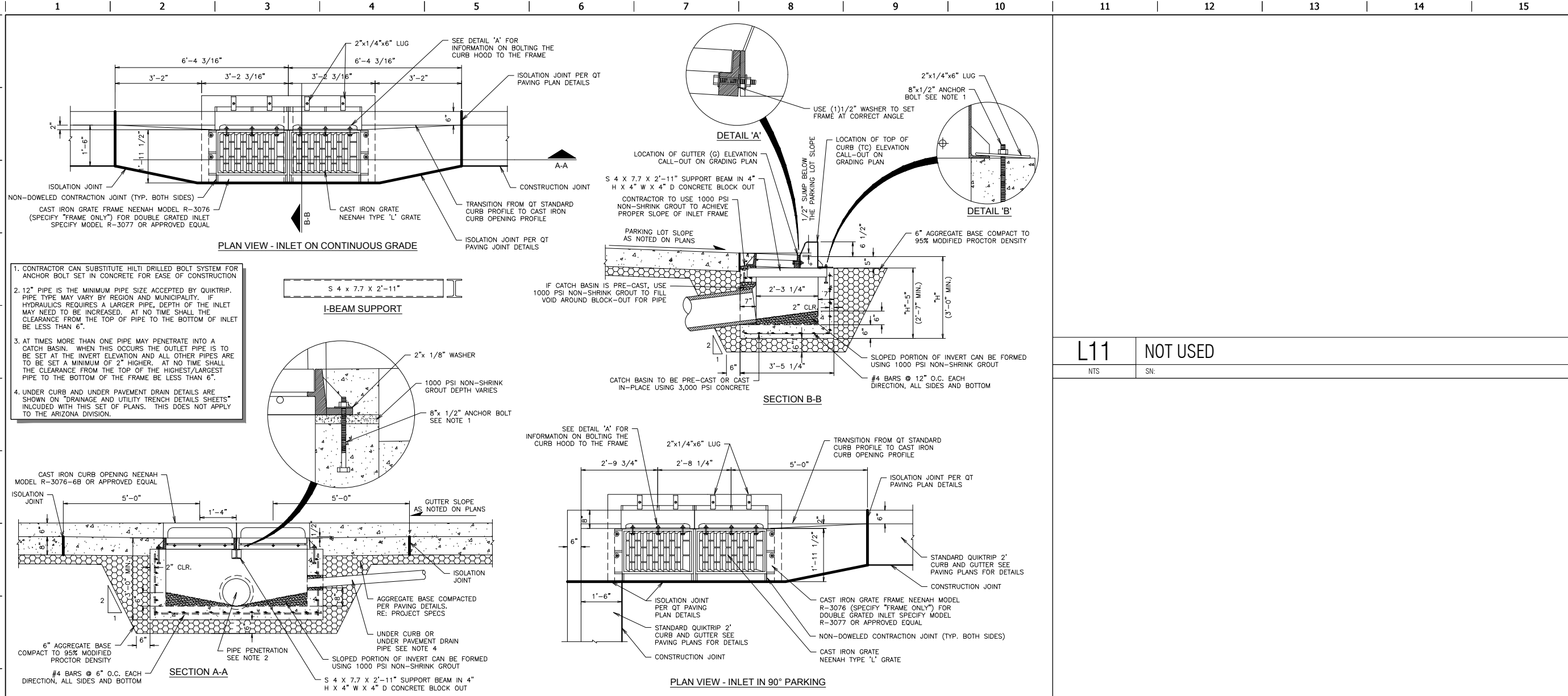
REV	DATE	DESCRIPTION

SHEET TITLE:
 TRENCHING DETAILS

SHEET NUMBER:
C531

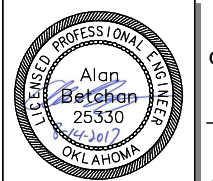
CONSTRUCTION SET ISSUE DATE:

FILE LOCATION: P:\1815\06-OT 0033\DETAILS\DRAINAGE.dwg TAB NAME: Drainage Detail Sheet 2 USER: kmt SAVER: 8/14/2017 12:38 PM PLOTTED: 8/15/2017 1:30 PM



F1	CATCH BASIN INLET DETAIL (DOUBLE)	F11	NOT USED
NTS	SN: DD001808	NTS	SN:

A1	NOT USED	A6	NOT USED	A11	NOT USED
NTS	SN:	NTS	SN:	NTS	SN:



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REV	DATE	DESCRIPTION

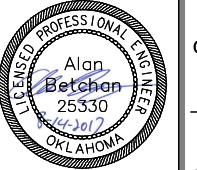
SHEET TITLE:
 DRAINAGE DETAILS

SHEET NUMBER:
C541

CONSTRUCTION SET ISSUE DATE:

BENCHMARKS
 ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP
 ELEVATION=732.73'

USE	SYMBOL	COMMON NAME <i>Botanical Name</i>	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES	COMMENTS
FRONTAGE TREES		GRAPE MYRTLE <i>Lagerstroemia Indica</i>	3" CALIPER (TOTAL)	31 EA.	SEE LANDSCAPE PLAN AND ASSOCIATED DETAILS FOR TREE PLACEMENT, AND PLANTING SPECIFICATIONS
		CHINESE PISTACHE <i>Pistacia Chinensis</i>	3" CALIPER 12' HT	2 EA.	CONTRACTOR TO VERIFY TREE TYPE, LOCATION, SIZE, HEIGHT, AND SPREAD WITH QT REPRESENTATIVE PRIOR TO INSTALLATION
SHRUBS		NEEDLE POINT HOLLY <i>Ilex Cornuta 'Needle Point'</i>	HEIGHT/SPREAD RATIO = 3:2 24" Ø X 16" HT MIN	260 EA.	
MISC		TIFWAY 419 BERMUDA SOD		13,309 S.F.	



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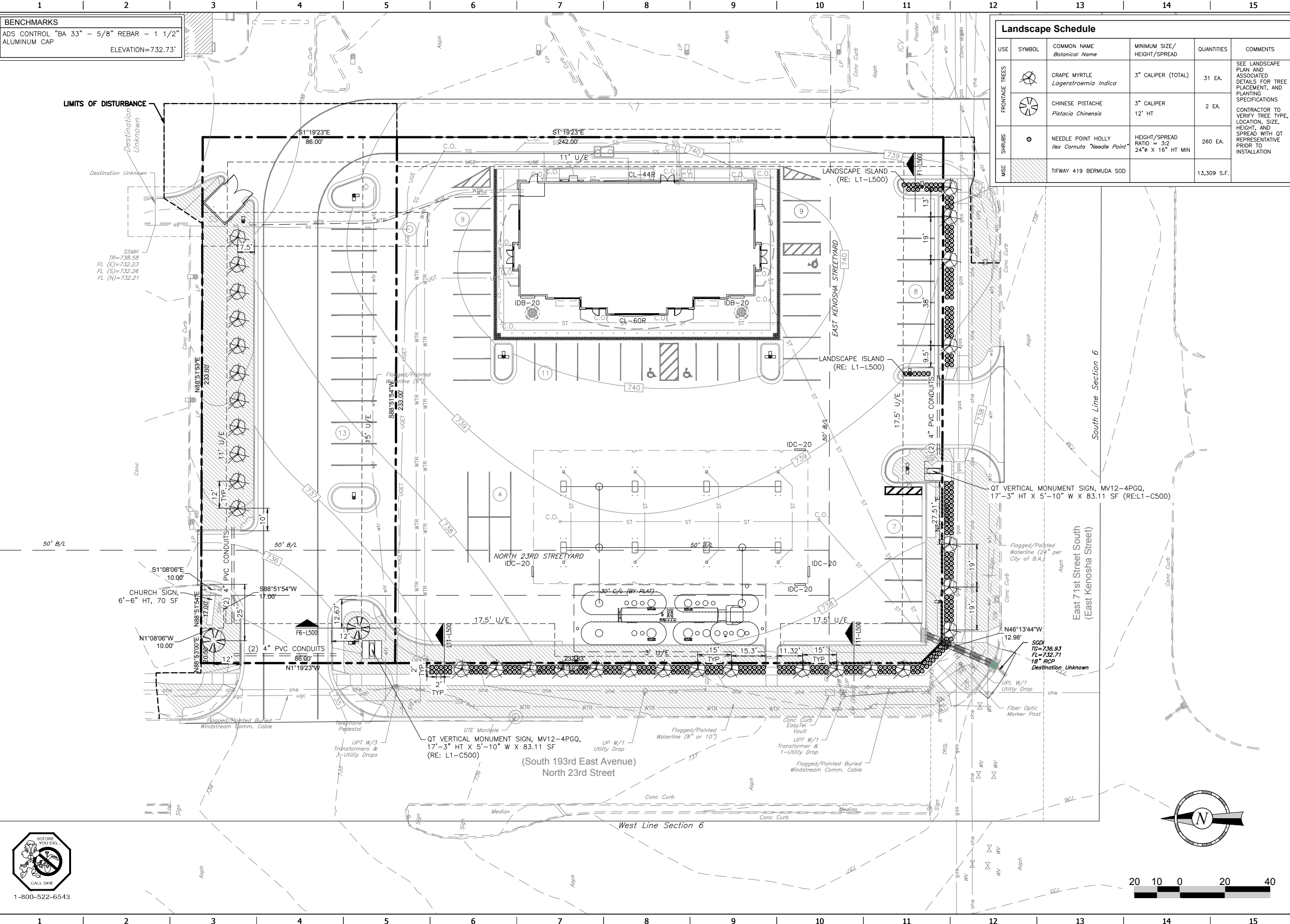
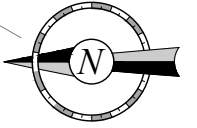
PROTOTYPE: P-91 (05/02/2017)
 DIVISION: BROKEN ARROW
 VERSION: 001
 DESIGNED BY: AAB
 DRAWN BY: KMT
 REVIEWED BY:

REV	DATE	DESCRIPTION	CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
 LANDSCAPE PLAN

SHEET NUMBER:
L100

FILE LOCATION: P:\1815\06-QT 0033\01-0033 Civil.dwg TAB NAME: Landscape USER: Clint SAVED: 8/15/2017 12:38 PM PLOTTED: 8/15/2017 1:30 PM



LIMITS OF DISTURBANCE

SSMH
 TP=736.58
 FL (E)=732.23
 FL (S)=732.26
 FL (N)=732.21

CHURCH SIGN,
 6'-6" HT, 70 SF

QT VERTICAL MONUMENT SIGN, MV12-4PGQ,
 17'-3" HT X 5'-10" W X 83.11 SF
 (RE: L1-C500)

QT VERTICAL MONUMENT SIGN, MV12-4PGQ,
 17'-3" HT X 5'-10" W X 83.11 SF
 (RE: L1-C500)

SGO1
 TG=736.93
 FL=732.71
 18" RCP
 Destination Unknown

West Line Section 6

East 71st Street South
 (East Kenosha Street)

South Line Section 6

EAST KENOSHA STREET YARD

NORTH 23RD STREET YARD

LANDSCAPE ISLAND
 (RE: L1-L500)

LANDSCAPE ISLAND
 (RE: L1-L500)

50' B/L

50' B/L

50' B/L

50' B/L

S1°08'06"E
 10.00'

S88°51'54"W
 17.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

N1°08'06"W
 10.00'

N1°19'23"W
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

N88°53'00"E
 10.50'

S88°51'54"W
 17.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

N88°51'53"E
 233.00'

S88°51'54"W
 233.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

17.5' U/E

N46°13'44"W
 12.98'

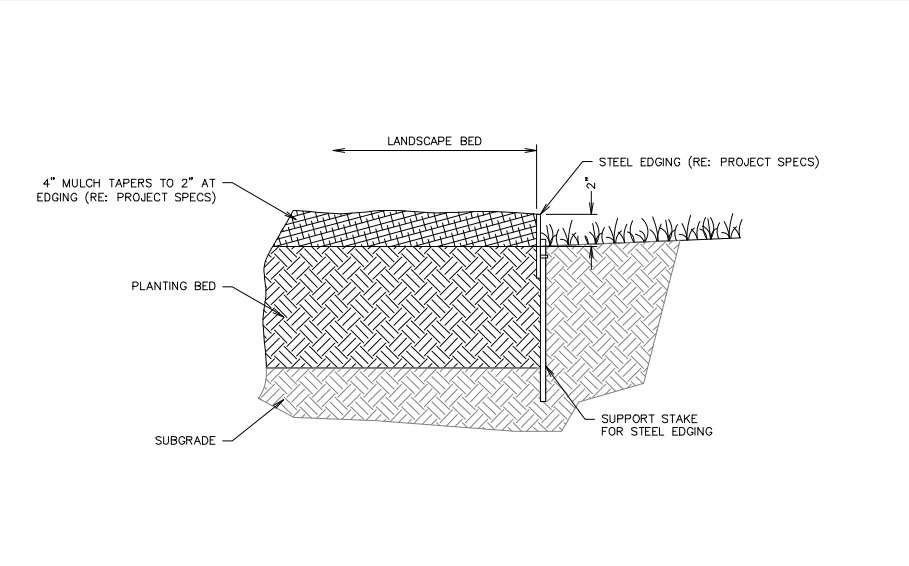
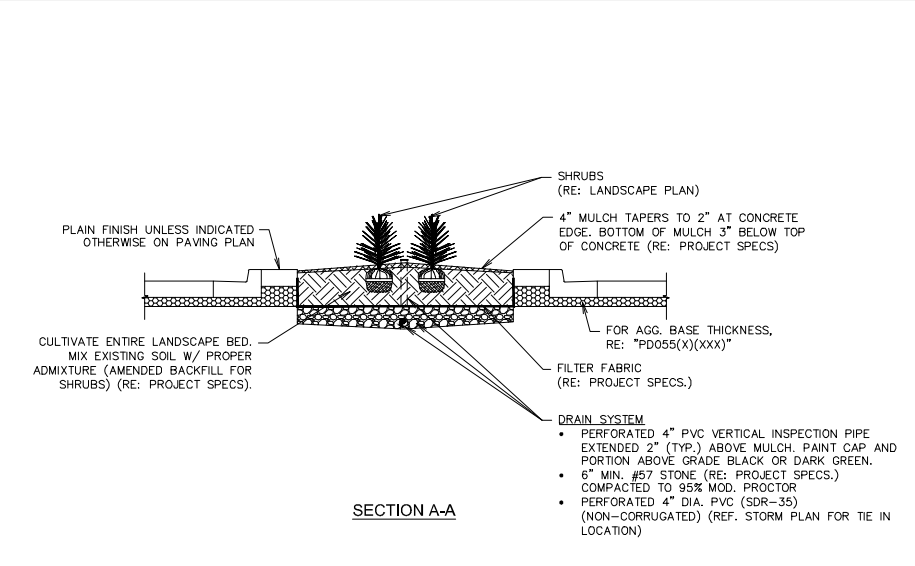
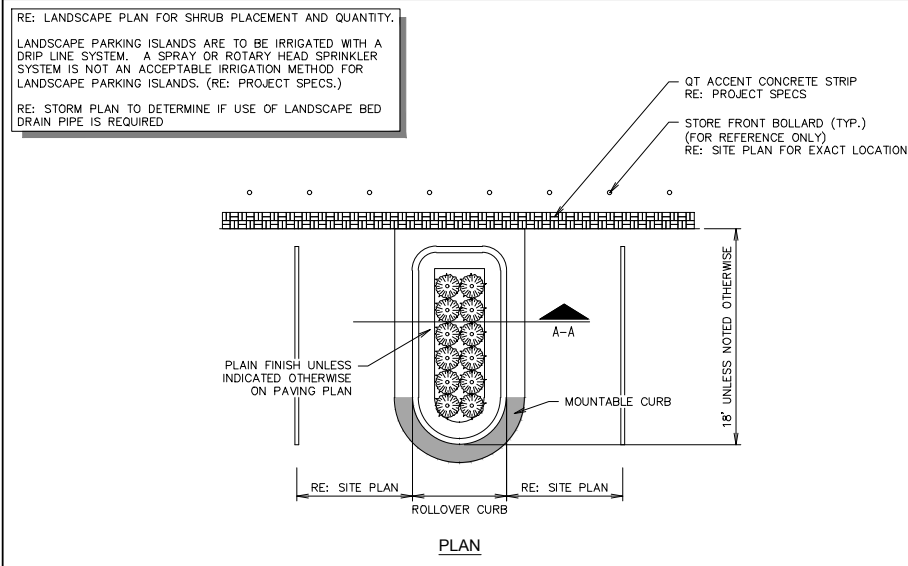
S1°19'23"E
 86.00'

S1°19'23"E
 86.00'

17.5' U/E

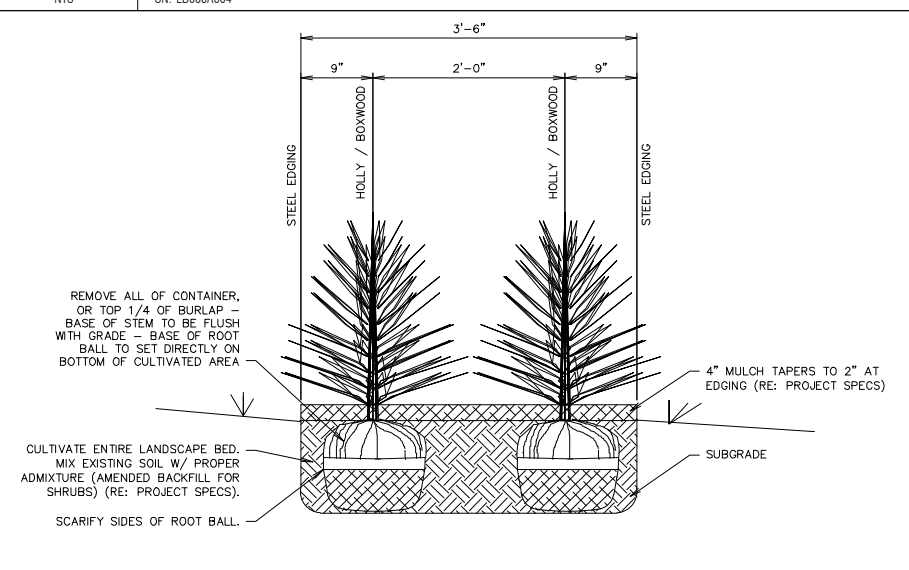
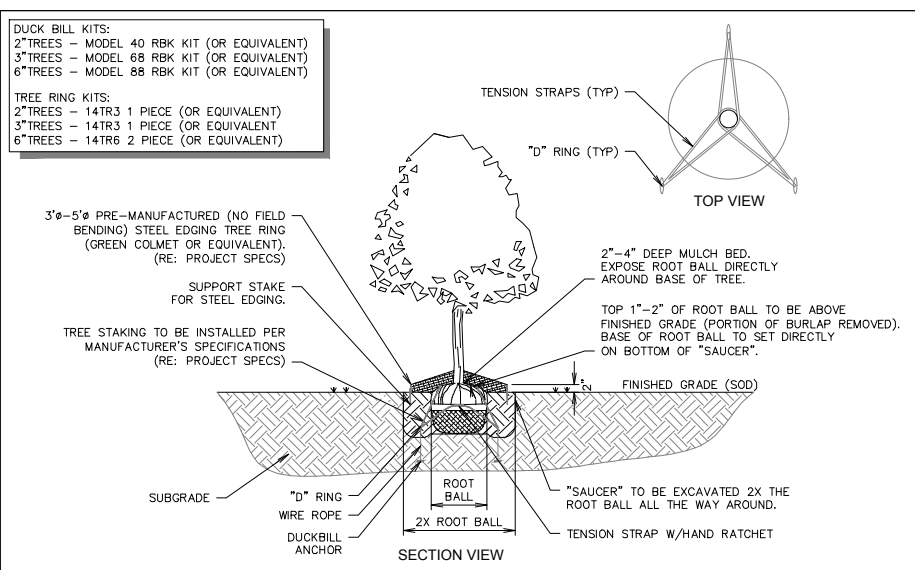
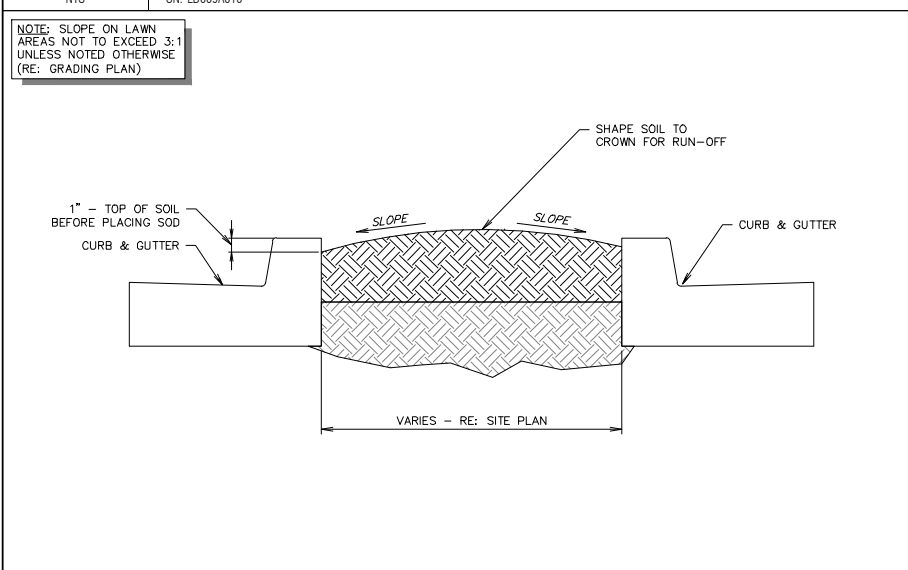
17.5' U/E

N46°13'44"W
 12.98'



L1 PARKING ISLAND W/ SHRUBS LANDSCAPE DETAIL (W/ RADIUS PROTECTOR)

L11 LANDSCAPE STEEL EDGING DETAIL



F1 TYPICAL LAWN SECTION

F6 TREE PLANTING DETAIL - DUCKBILL

F11 SHRUB SCREENING SECTION B-B

A1	NOT USED
NTS	SN: LD007A002

A6	NOT USED
NTS	SN: LD008B001

A11	NOT USED
NTS	SN: LD005A004

LICENSED PROFESSIONAL ENGINEER
 Alan Betchan
 25330
 04-3017
 OKLAHOMA

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QT

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DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV	DATE	DESCRIPTION

CONSTRUCTION SET ISSUE DATE:

SHEET TITLE: LANDSCAPE DETAILS
SHEET NUMBER: L500