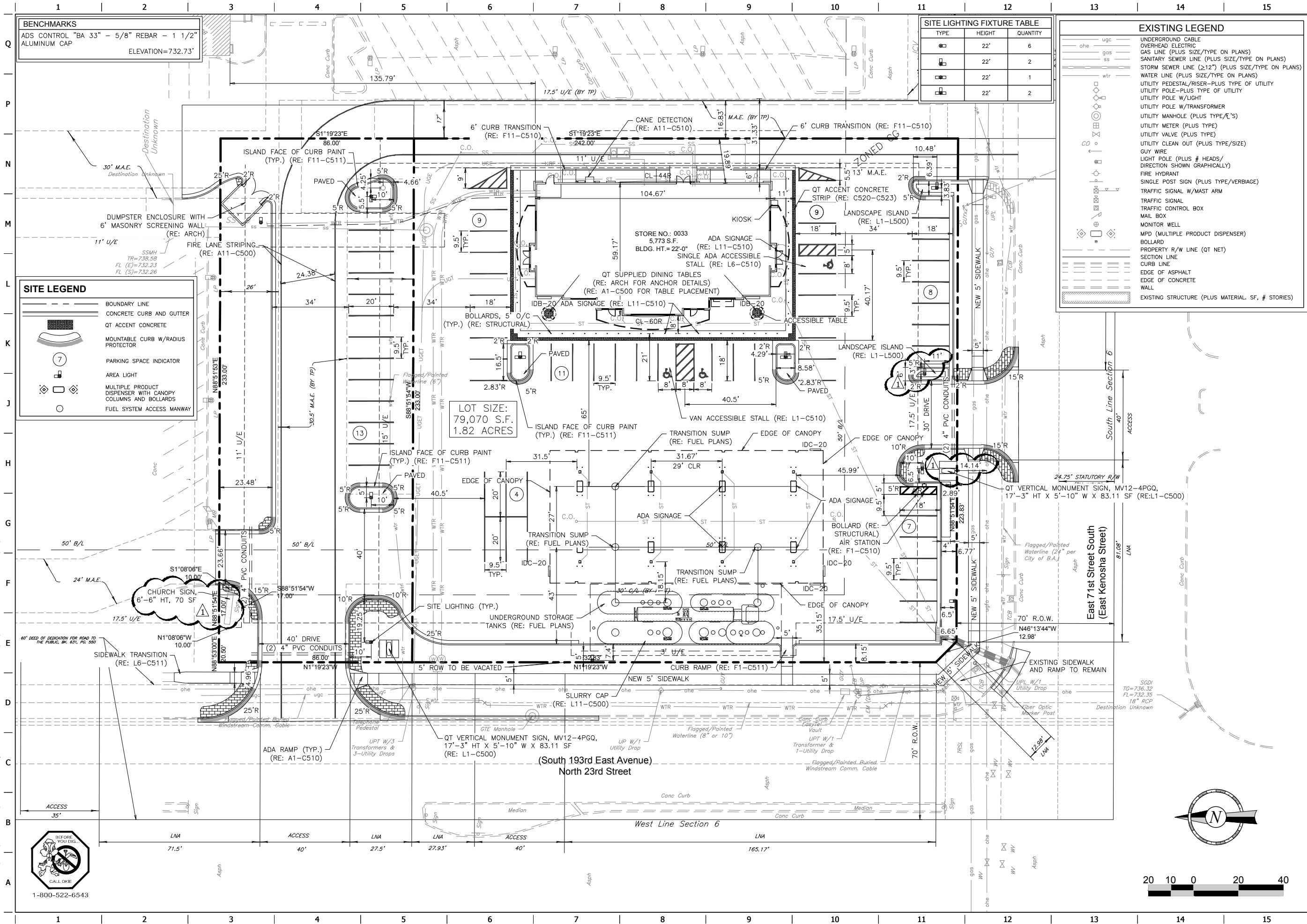


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SITE LEGEND

- 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

SITE LIGHTING FIXTURE TABLE

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

EXISTING LEGEND

- UNDERGROUND CABLE
- OVERHEAD ELECTRIC
- GAS LINE (PLUS SIZE/TYP. ON PLANS)
- SANITARY SEWER LINE (PLUS SIZE/TYP. ON PLANS)
- STORM SEWER LINE (212") (PLUS SIZE/TYP. ON PLANS)
- WATER LINE (PLUS SIZE/TYP. 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)

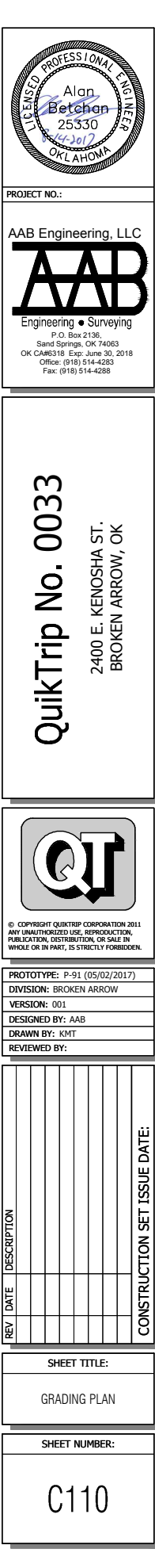
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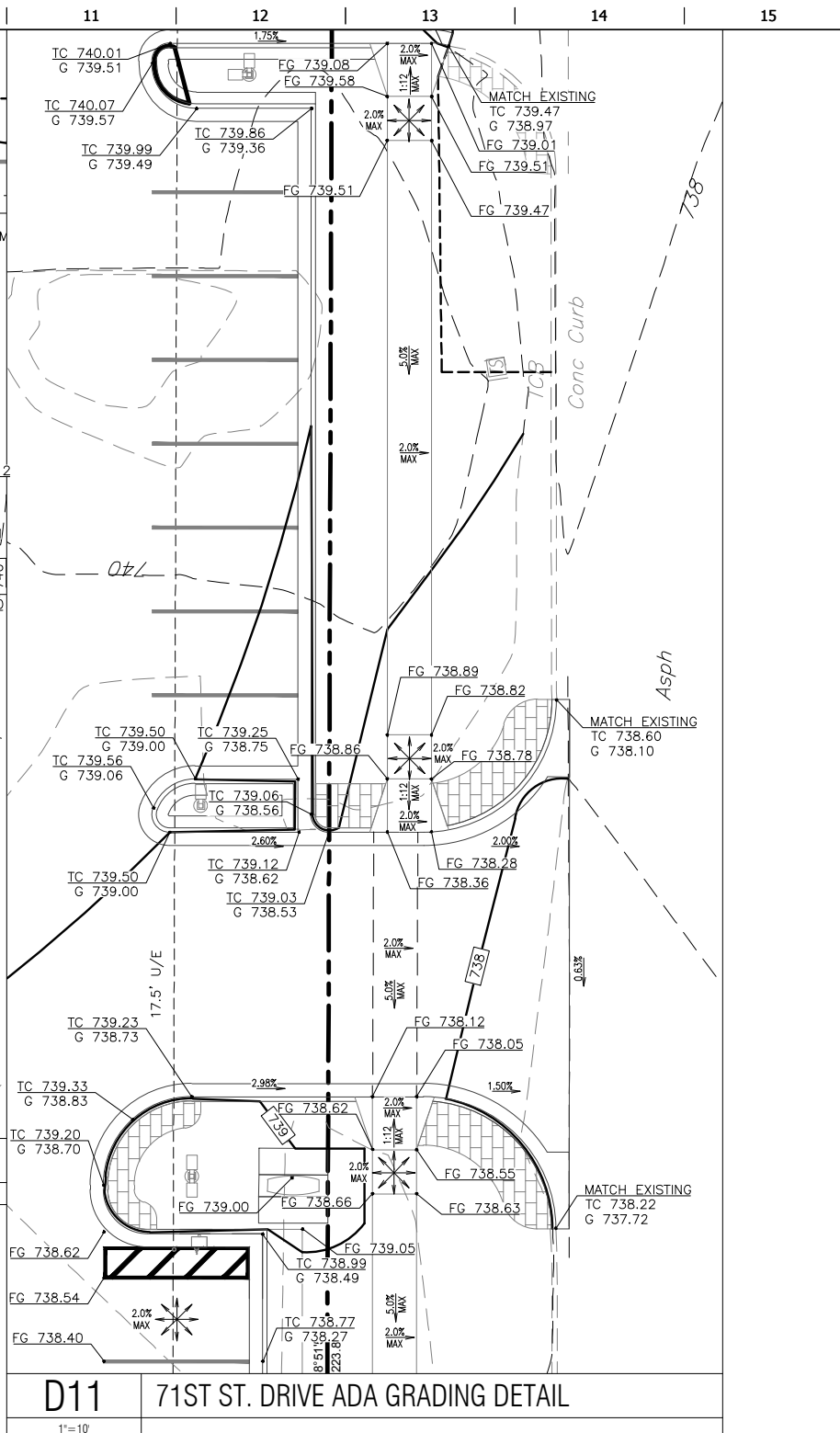
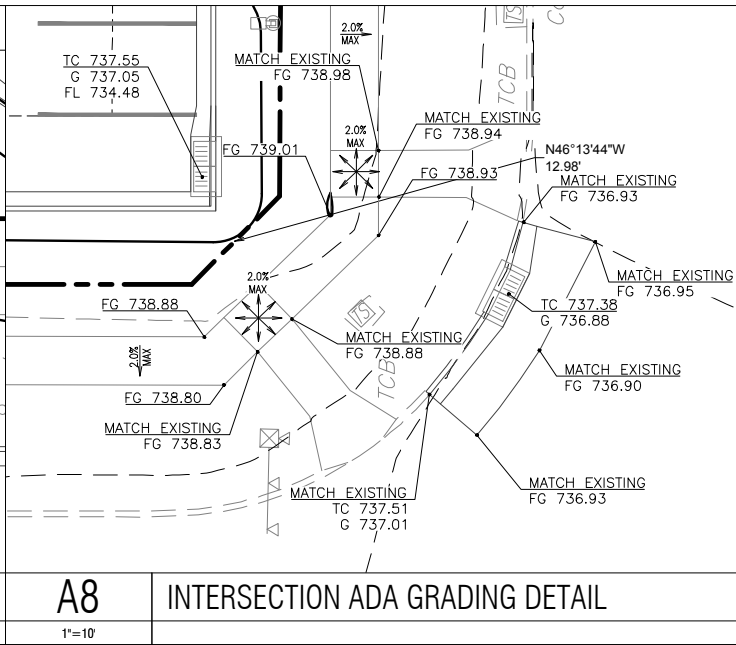
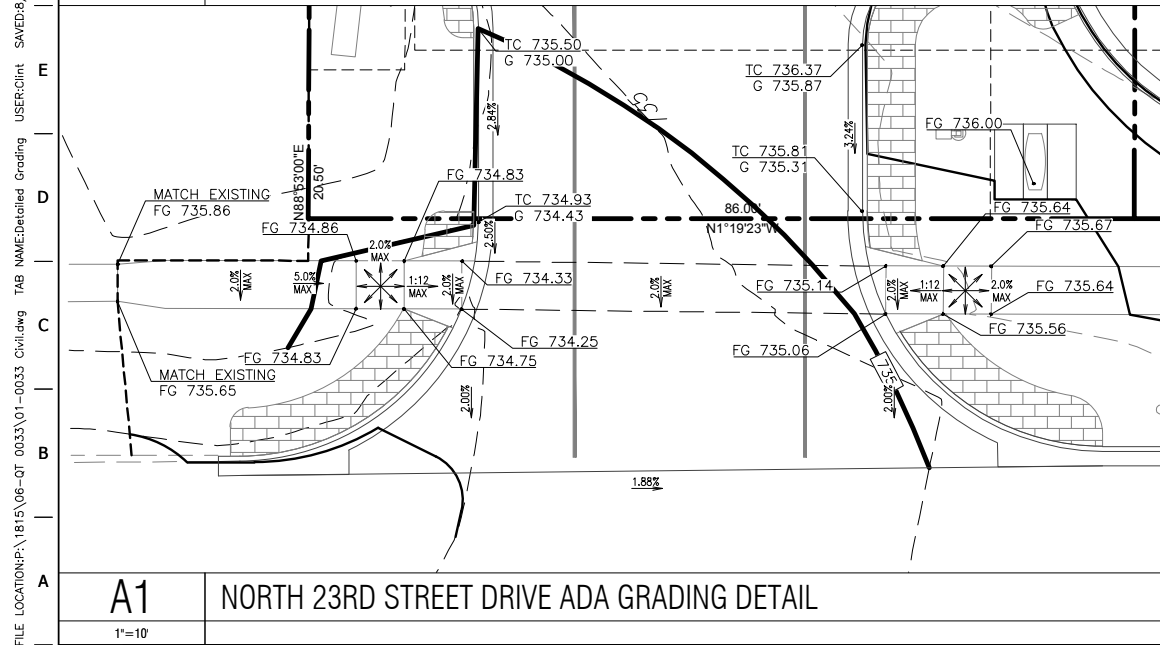
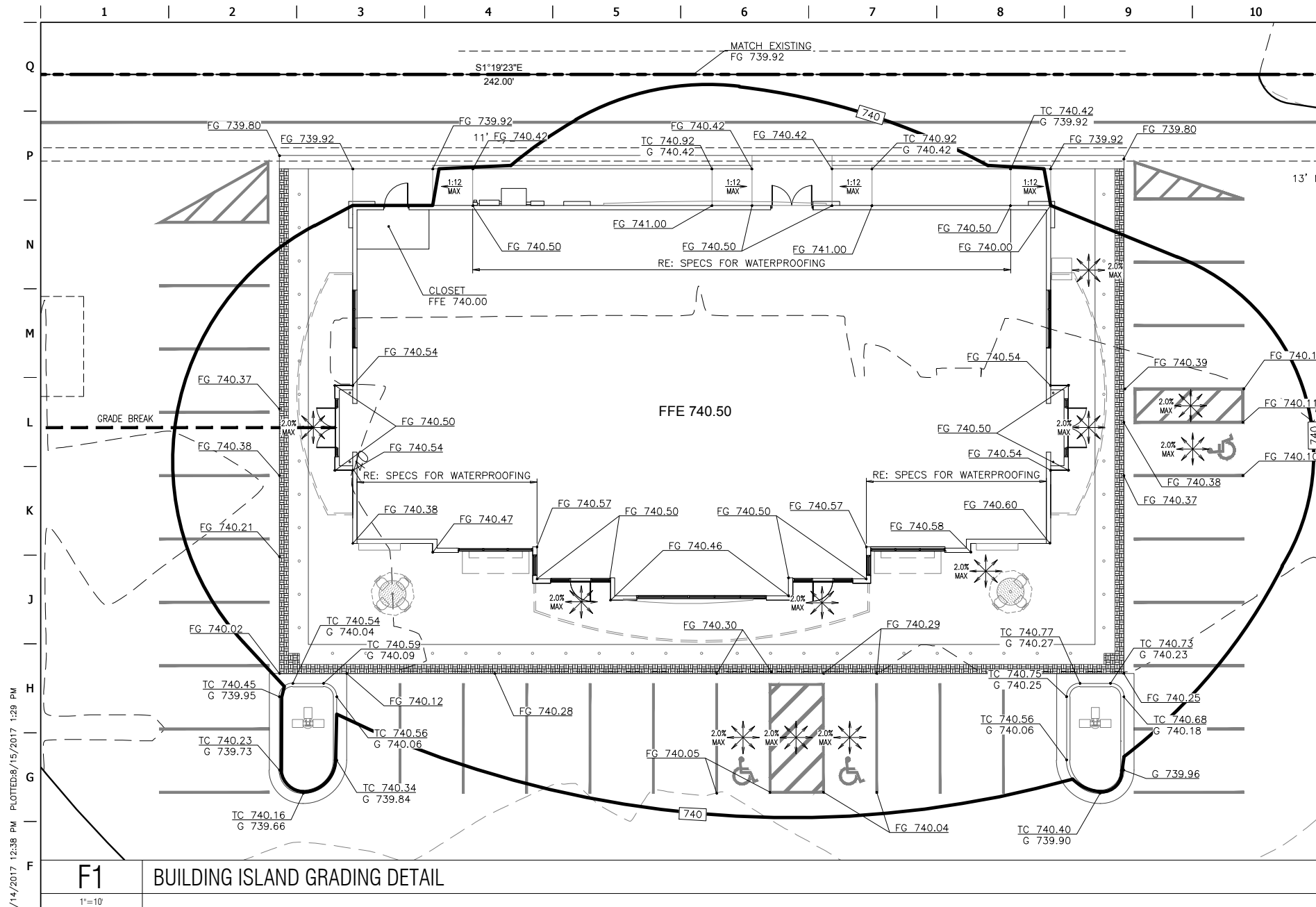
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DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C100

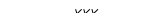
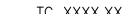
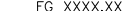
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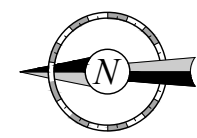


PRIOR TO PLACING FRAMEWORK ON COMPLEX ADA RAMP DESIGNS, CONTRACTOR SHALL SUBMIT AN RFI WITH ADDITIONAL SURVEY DATA TO THE CONSULTANT. CONSULTANT WILL FINALIZE RAMP DESIGN AND RESPOND TO THE RFI.

GRADING LEGEND

-  MAJOR CONTOUR (NEW)
-  MINOR CONTOUR (NEW)
-  MAJOR CONTOUR (EXISTING)
-  MINOR CONTOUR (EXISTING)
-  LIMITS OF DISTURBANCE
-  TOP OF CURB ELEVATION (NEW)
-  GUTTER ELEVATION (NEW)
-  FINISHED GRADE ELEVATION (NEW)
-  SPOT ELEVATION (EXISTING)
-  STORM GRATE (NEW)

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

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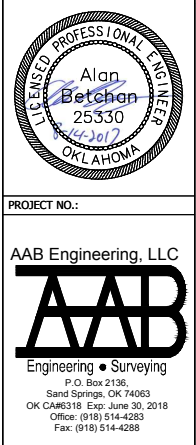
BENCHMARKS
ADS CONTROL "BA 33" - 5/8" REBAR - 1 1/2" ALUMINUM CAP ELEVATION=732.73'

GRADING LEGEND

	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
	EXTENDED FOOTING
	STANDARD CANOPY COLUMN FOOTING

**MULTIPLE PRODUCT DISPENSER WITH
CANOPY COLUMNS AND BOLLARDS**

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 HUMPS, "GRADE BREAKS" SHALL BE CONSTRUCTED AS A "VERTICAL CURVE". SURVEYOR & CONTRACTOR SHALL CONFIRM WITH QUITRIP ENGINEER. INSTRUCTION TO CONSTRUCTION STAKING OR CONCRETE PLACEMENT RELATIVE TO ANY GRADE BREAKS.
3.	WHEN PLAN GRADES DEPICT RUNOFF TO BE DIRECTED AWAY FROM THE CURB, USE DRAIN AROUND CURB ALTERNATE. (RE: "CURB DETAIL-BARRIER" PD009A00X DETAIL)



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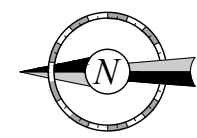


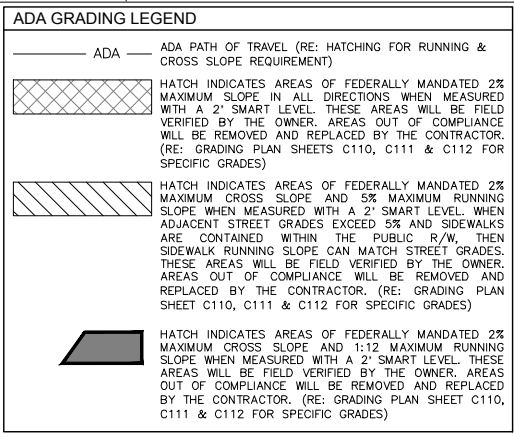
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DIVISION: BROKEN ARROW
VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

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SHEET TITLE:
DETAILED CANOPY GRADING PLAN

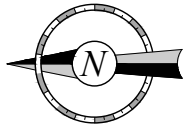
SHEET NUMBER:
C112





ADA GENERAL NOTES	
1.	ANY REQUEST BY A GOVERNING AUTHORITY OR INSPECTOR TO ALTER THE ADA COMPLIANCE DETAILS OR REQUIREMENTS DEPICTED IN THE KUTRIQP PLANS AND SPECIFICATIONS MUST BE DIRECTED TO THE KUTRIQP CONSTRUCTION MANAGER FOR AUTHORIZATION. ANY CHANGES MADE BY A PRIMARY OR SUB-CONTRACTOR WITHOUT AUTHORIZATION FROM THE KUTRIQP CONSTRUCTION MANAGER AND LATER FOUND TO BE NON-COMPLIANT WITH THE DETAILS AS SHOWN IN THE KUTRIQP 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.
2.	RE: GRADING PLAN SHEETS C110, C111 & C112 FOR FINAL GRADES.
3.	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.
4.	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)
5.	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



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) 514-4283
Fax: (918) 514-4288

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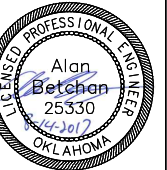
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SHEET TITLE:
ADA COMPLIANCE REFERENCE PLAN

SHEET NUMBER:
C113

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



PROJECT NO.:

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CONSTRUCTION SET ISSUE DATE:

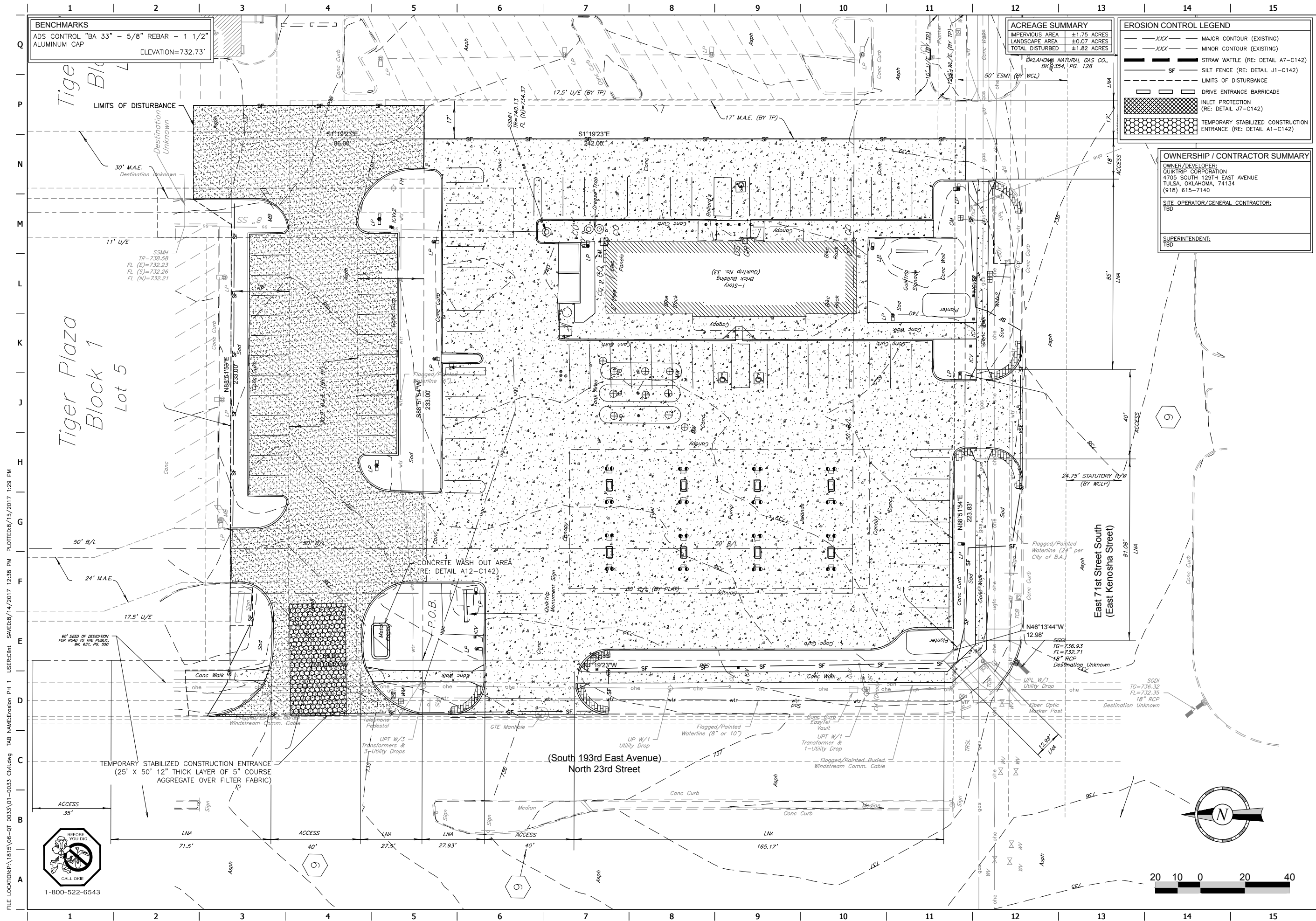
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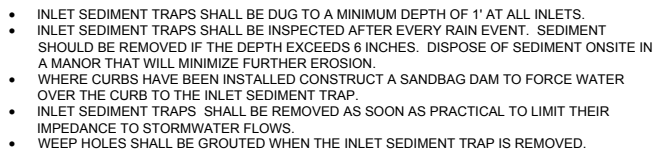
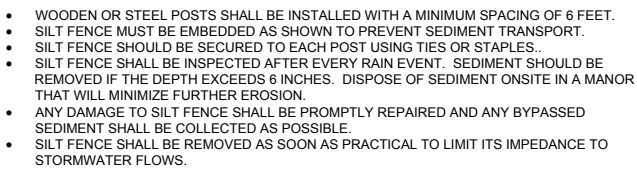
FORM PLAN

ET NUMBER:

120

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)	100 (IN./HR.)	Q ₁₀₀ (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





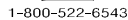
TEMPORARY EROSION CONTROL SHOULD BE IMPLEMENTED ONCE BULK EARTHWORK OPERATIONS ARE COMPLETED TO MINIMIZE EROSION POTENTIAL BEFORE PERMANENT COVER IS ESTABLISHED. TEMPORARY SEEDING MEASURES ARE GENERALLY NECESSARY WHEN SOILS WILL BE DISTURBED IN EXCESS OF 6 MONTHS PRIOR TO PERMANENT SEEDING. DURING PERIODS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

1. 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.
2. ALL SEED SHALL BE UNIFORMLY DRILLED OR HYDROSEEDED.
3. ALL SEEDING IMPLEMENTS SHOULD TRAVEL PATHS PERPENDICULAR TO THE SLOPES TO LIMIT EROSION.
4. IF THE SURFACE OF THE SOIL IS NOT LOOSENED FROM RECENT GRADING OPERATIONS IT SHALL BE DISCED PRIOR TO SEEDING.
5. 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.
6. SHOULD COVER NOT DEVELOP THE CONTRACTOR SHALL RESEED AS NECESSARY TO ESTABLISH SUFFICIENT GROUND COVER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL 2 INCHES OF GROWTH HAS BEEN ACHIEVED AND AS NECESSARY TO MAINTAIN TEMPORARY COVER.
8. ACCEPTABLE TEMPORARY SEEDING OPTIONS ARE:

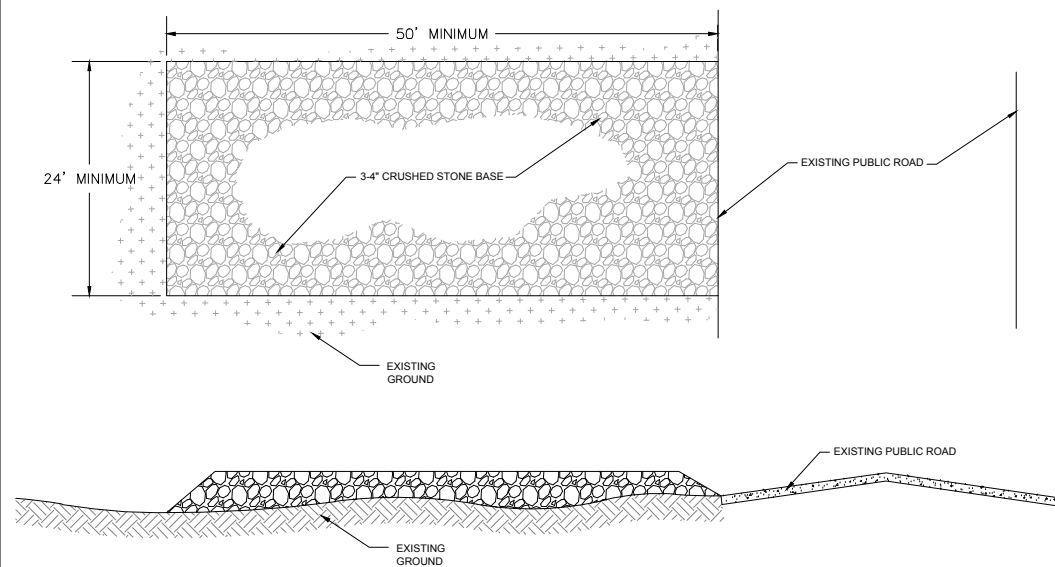
PERMANENT EROSION CONTROL SEEDING SHOULD BE COMPLETED AS SOON AS
PRACTICAL TO MINIMIZE EROSION. FOR BEST RESULTS A BLEND OF SEED SHOULD BE
USED TO DEVELOP A GROUND COVER BEST ADAPTED TO THE VARIED CLIMATE
CONDITIONS FOUND IN OKLAHOMA.

1. ALL SEED SHALL BE UNIFORMLY DRILLED OR HYDROSEEDED.
2. ALL SEEDING IMPLEMENTS SHOULD TRAVEL PATHS PERPENDICULAR TO THE SLOPES TO LIMIT EROSION.
3. 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.
4. IF THE SURFACE OF THE SOIL IS NOT LOOSENED FROM RECENT GRADING OPERATIONS IT SHALL BE DISCED PRIOR TO SEEDING.
5. SHOULD A DRAINAGE DITCH BE REQUIRED, THE CONTRACTOR SHALL RESEED AS NECESSARY TO ESTABLISH ADEQUATE GROUND COVER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING UNTIL 2 INCHES OF GROWTH HAS BEEN ACHIEVED.
7. ACCEPTABLE PERMANENT SEEDING OPTIONS ARE:

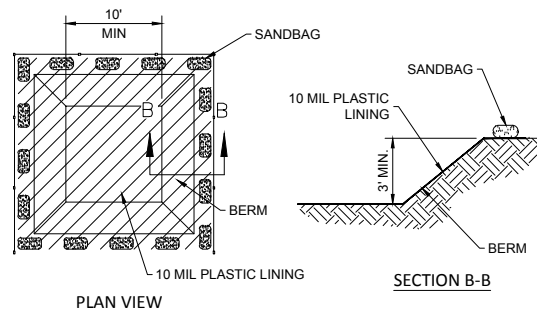
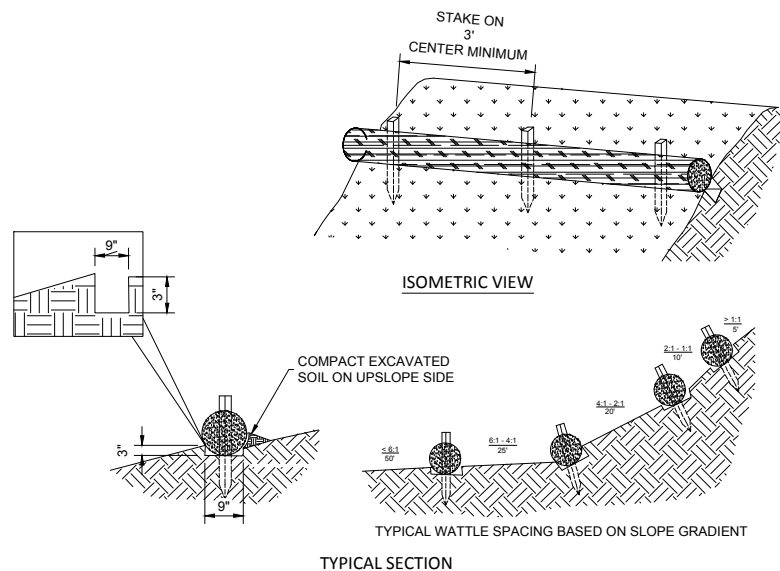
SEED TYPE	RATE		PLANTING DATE
	PER ACRE	PER 1000 SQ. FT.	
BERMUDAGRASS	80 LBS.	2.0 LBS.	APR.-JULY
FESCUE	200 LBS.	5.0 LBS.	MAR.-MAY
			SEPT.-NOV.
BUFFALOGRASS	80 LBS.	2.0 LBS.	APR.-JUNE
WEEPING LOVEGRASS	40 LBS.	1.0 LB.	APR.-JUNE



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



- 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.



- 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 CAUSE BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION



AAB Engineering, LLC



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VERSION: 001

DESIGNED BY: AAB

DRAWN BY: KM

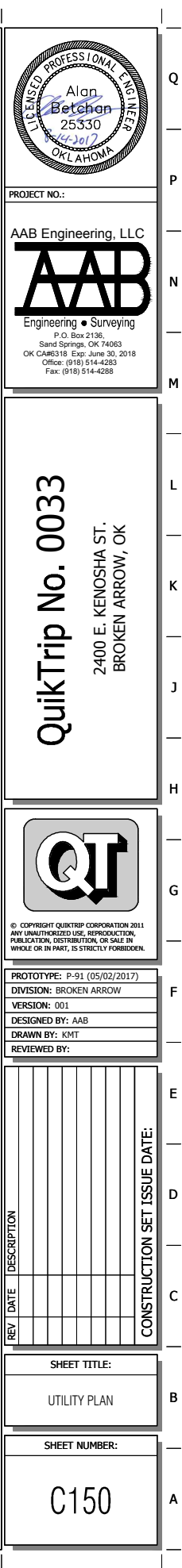
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SHEET TITLE:

EROSION CONTROL DETAILS

SHEET NUMBER:

C142



WATERLINE NOTES

1. ALL WATER DISTRIBUTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS AND CONSTRUCTION SPECIFICATIONS.
2. ALL WATER DISTRIBUTION SYSTEM CONSTRUCTION SHALL BE INSPECTED BY THE CITY UTILITY INSPECTORS.
3. DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE THE LINE.
4. 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.
5. ALL IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED.
6. ALL LINES IN CONDUIT AND AT DRAINAGE FEATURE CROSSINGS SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS.
7. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS AND THRUST BLOCKS.
8. ALL MAIN LINES SHALL HAVE A MINIMUM OF 42 INCHES (3.5 FEET) AND A MAXIMUM OF EIGHT (8) FEET OF COVER.
9. 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.
10. ALL EXISTING VALVES TO BE OPERATED BY THE CITY AT CONTRACTOR'S EXPENSE.
11. FIRE HYDRANTS:
 - 11.a. FIRE HYDRANTS SHALL BE MEULLER, 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.
 - 11.b. 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.
12. ALL SALVAGED FITTINGS SHALL, AT THE CITY'S DISCRETION, BE RETURNED TO THE CITY'S YARD AS DIRECTED BY THE INSPECTOR.
13. CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO TESTING AND CHLORINATION.
14. ALL FITTINGS ARE FURNISHED AND INSTALLED BY THE CONTRACTOR.
15. 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")
	—	STORM PIPE (> 12")
		MAJOR CONTOUR
		MINOR CONTOUR
	—	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" 90° ELBOW.....	4 EA
8" SOLID SLEEVE.....	1 EA

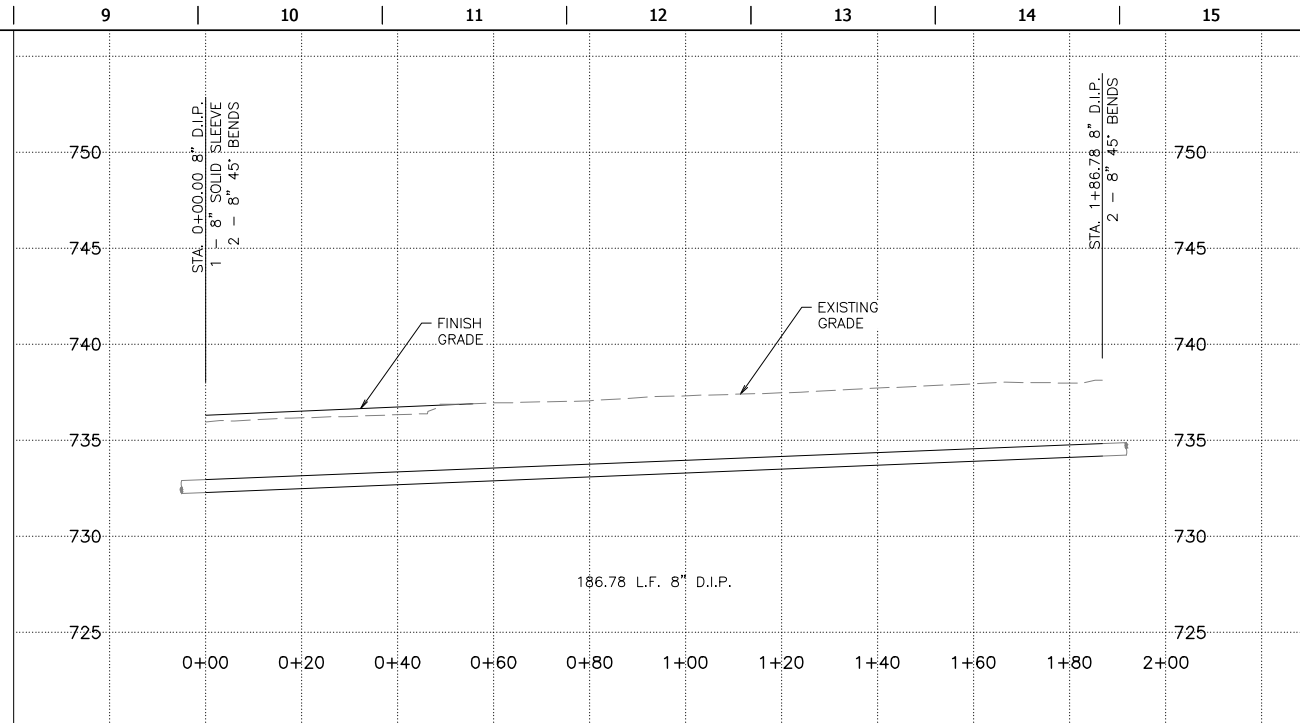
UTILITY GENERAL NOTES

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 PERVIOUS AREAS - SPECIFICALLY AVOIDING ON-SITE PAVED AREAS DESIGNATED FOR PARKING, ACCESS, AND VEHICULAR TRAFFIC FLOW.

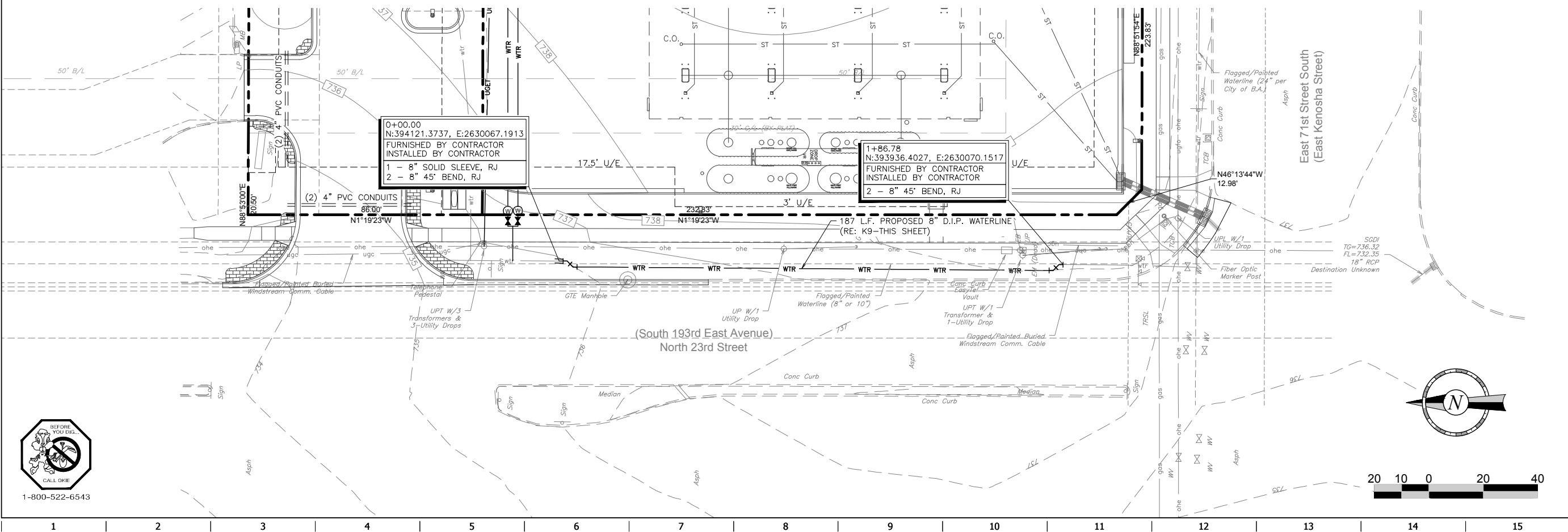
REFER TO THIS SHEET FOR LOCATION, AND SHEETS C530 THRU C531 FOR TRENCHING, BACKFILL, AND PLACEMENT DETAILS.



K9

8" DUCTILE IRON PIPE PROFILE

H: 1"=20'. V: 1"=5'

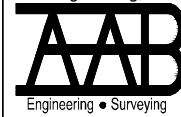


1-800-522-6543



PROJECT NO.:

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OK CA#6318 Exp: June 30, 2018
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DIVISION: BROKEN ARROW

VERSION: 001

DRAWN BY: KMT

REVIEWED BY:

[illegible]

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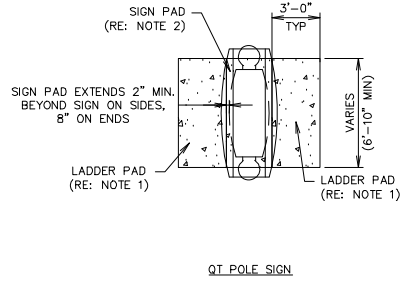
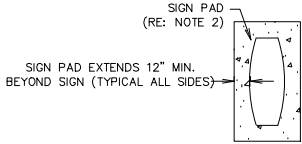
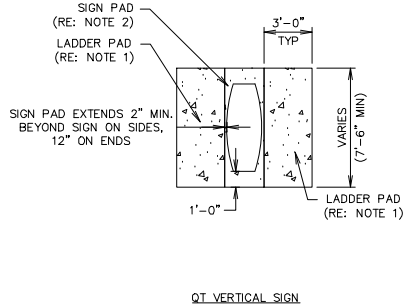
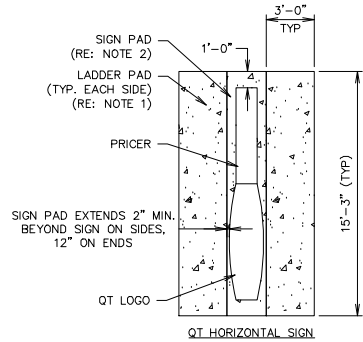
WATERLINE PLAN AND PROFILE

SHEET NUMBER:

C151

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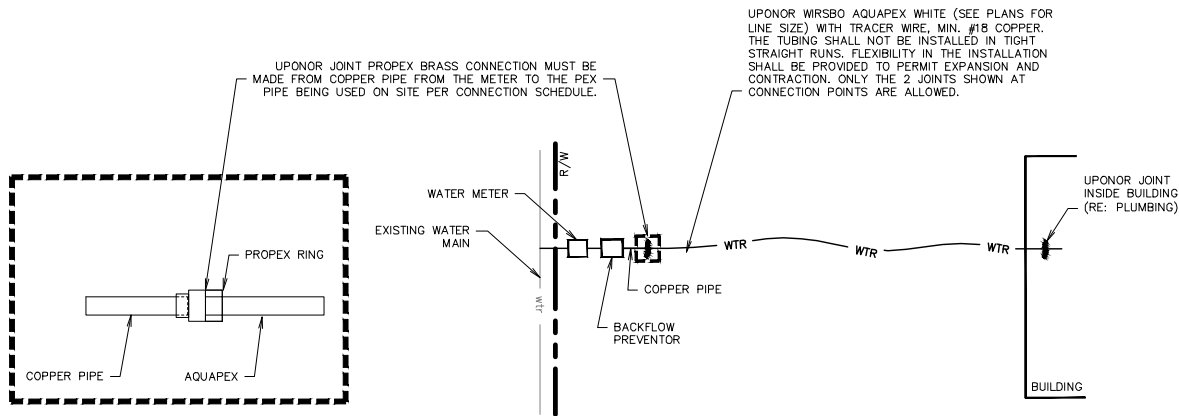
1. 4" THICK X 4000 P.S.I. CONCRETE LADDER PAD W/6"x6" 10 GA. W.W.F. PLACED LEVEL, MID-DEPTH (TYPICAL)
2. 4" THICK X 4000 P.S.I. CONCRETE SIGN PAD W/6"x6" 10 GA. W.W.F. PLACED LEVEL, MID-DEPTH (TYPICAL)
3. CAULK CONSTRUCTION JOINT BETWEEN SIGN AND LADDER PADS
4. FOR QT SIGN PAD PLACEMENT, RE: SITE PLAN FOR SITE SPECIFIC SIGNAGE.



L1 GEN III SIGN PAD DETAIL

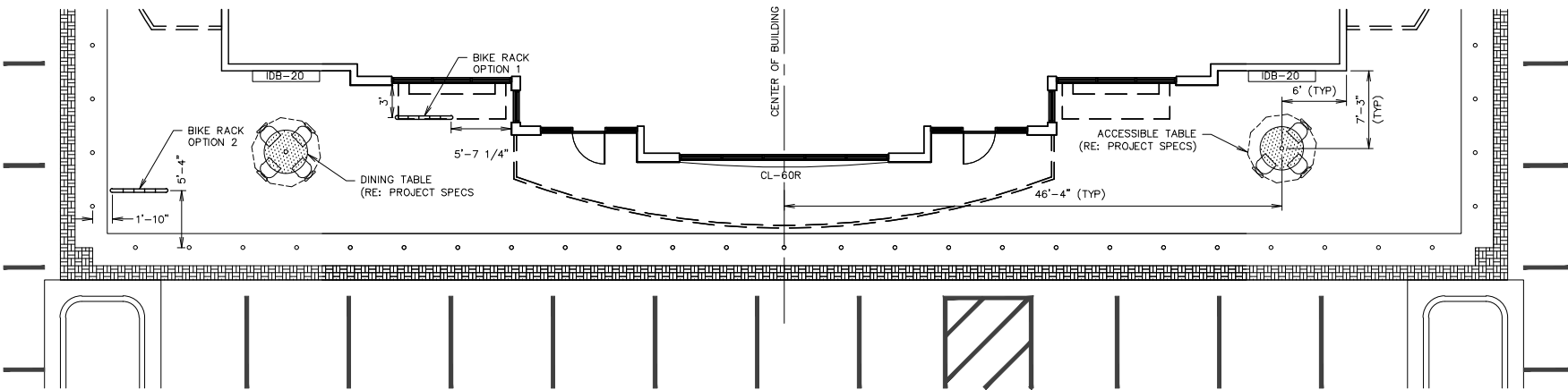
NTS SN: SD015A004

1. ALL PIPE, JOINTS, AND ADAPTOR MUST BE STORED PER THE GUIDELINES LAID OUT IN UPONOR SPECIFICATIONS.
2. PIPE BE STORED IN A FLAT, DRY, WELL VENTILATED LOCATION, NOT EXPOSED TO DIRECT SUNLIGHT. NORMAL CARE IN HANDLING SHALL BE EXERCISED TO AVOID ABUSE OF THE TUBING. THE TUBING AND FITTINGS SHALL NOT BE THROWN OR DROPPED ON THE GROUND, WALKED ON, OR DRAGGED.
3. TUBING CONNECTION: ALL TUBING CONNECTIONS SHALL BE MADE STRICTLY PER THE MANUFACTURERS RECOMMENDATIONS.
4. CONNECTION TO OTHER MATERIALS: CONNECTIONS BETWEEN CROSS-LINKED POLYETHYLENE PLASTIC TUBING AND OTHER PIPING MATERIALS SHALL BE BY USE OF APPROVED ADAPTER FITTINGS. ADAPTER FITTINGS SHALL BE CONNECTED BY NPT THREADS, COPPER TUBING, COPPER FITTING OR PROGRESS FITTINGS. THE ADAPTER FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. EXPANSION AND CONTRACTION: PROVISION SHALL BE TAKEN FOR THE EXPANSION AND CONTRACTION OF THE CROSSLINKED POLYETHYLENE PLASTIC TUBING INSTALLATION. THE TUBING SHALL NOT BE INSTALLED IN TIGHT STRAIGHT RUNS. FLEXIBILITY IN THE INSTALLATION SHALL BE PROVIDED TO PERMIT EXPANSION AND CONTRACTION.
6. PIPE PROTECTION: CROSSLINKED POLYETHYLENE PLASTIC TUBING SHALL BE INSTALLED IN A WORKMANLIKE MANNER TO AVOID DAMAGE TO THE TUBING AND SURROUNDING BUILDING SYSTEMS. CROSSLINKED POLYETHYLENE PLASTIC TUBING SHALL BE PROTECTED TO AVOID ABRASION AND CONTACT WITH THE SURROUNDING BUILDING MATERIAL.
7. PIPING IDENTIFICATION: CROSSLINKED POLYETHYLENE PLASTIC PIPING SYSTEMS FOR HOT AND COLD WATER DISTRIBUTION SHALL HAVE THE MARKINGS THAT CONFORM TO THE ASTM F876 MARKING REQUIREMENTS AND ALSO INCLUDE: NSF-PW, ES ER 5944 ES ER 5945 ES ER 5421.
8. CONNECTION SCHEDULE:
 - PROPEX FITTING # Q 4502020 2" PEX x 2" COPPER FITTING
 - PROPEX FITTING # Q 4512020 2" PEX x 2" COPPER PIPE
 - PROPEX FITTING # G 4501515 1.5" PEX x 1.5" COPPER FITTING
 - PROPEX FITTING # G 4511515 1.5" PEX x 1.5" COPPER PIPE



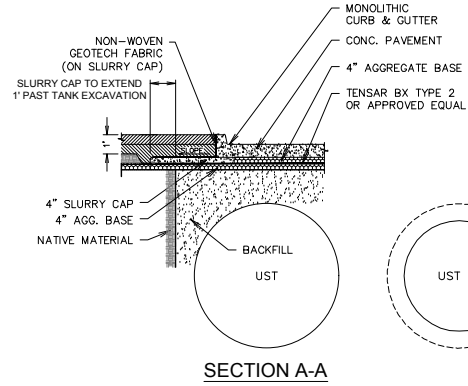
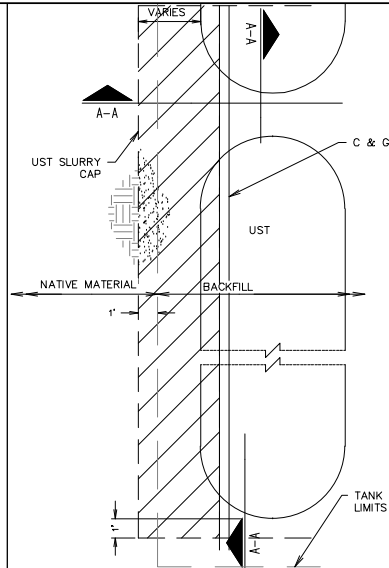
F1 PEX DETAIL - WATER METER & BFP @ STREET

NTS SN: SD023A001



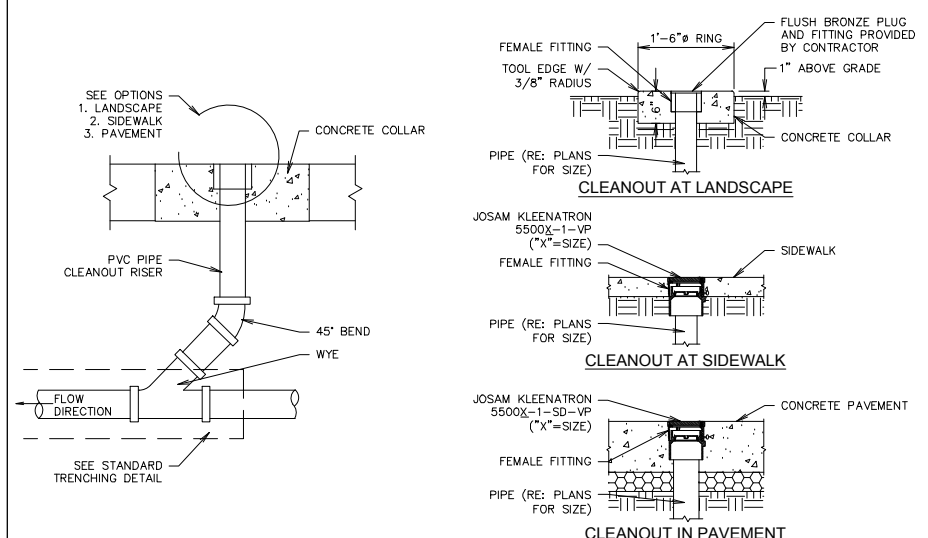
A1 OUTSIDE TABLE PLACEMENT

NTS SN: SD024A004



L11 2 X 2 TANK SLURRY CAP DETAIL

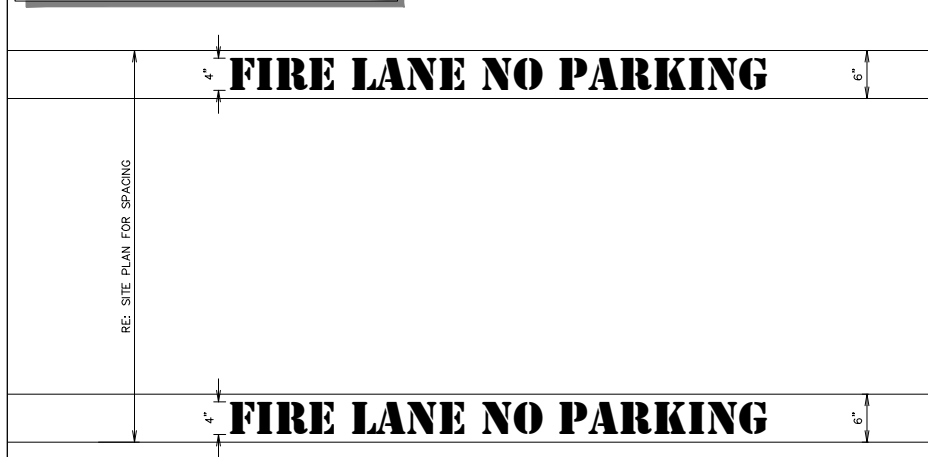
NTS SN: SD030B004



F11 CLEANOUT SECTION DETAIL

NTS SN: SD016A006

1. RE: SITE PLAN FOR LOCATION
2. "FIRE LANE NO PARKING" TO APPEAR 80 FEET O/C (OR AS REQUIRED BY FIRE OFFICIAL).
3. FIRE LANE STRIPES ARE TO BE PAINTED RED. STENCIL LETTERS ARE TO BE PAINTED WITH REFLECTIVE WHITE PAINT.



A11 FIRE LANE DETAIL

NTS SN:



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AAB
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VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV	DATE	DESCRIPTION

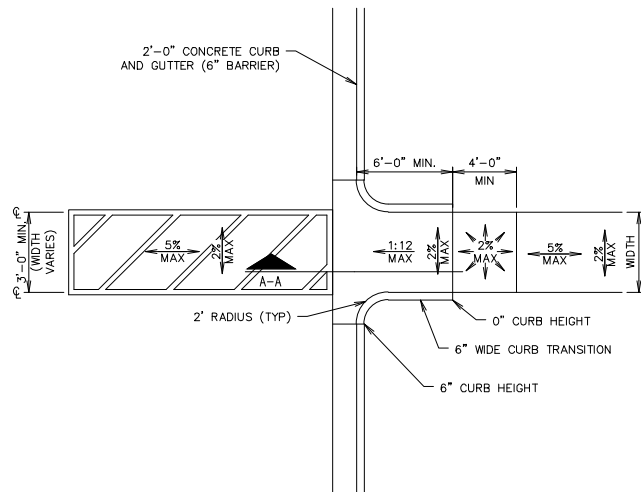
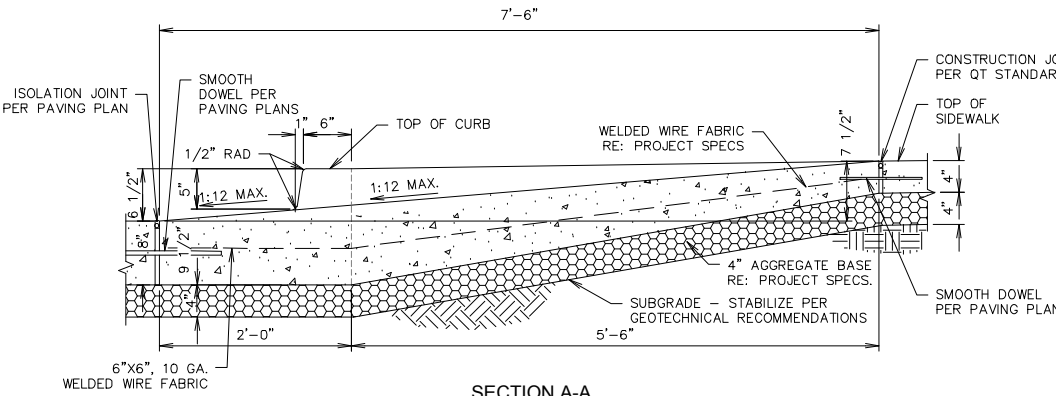
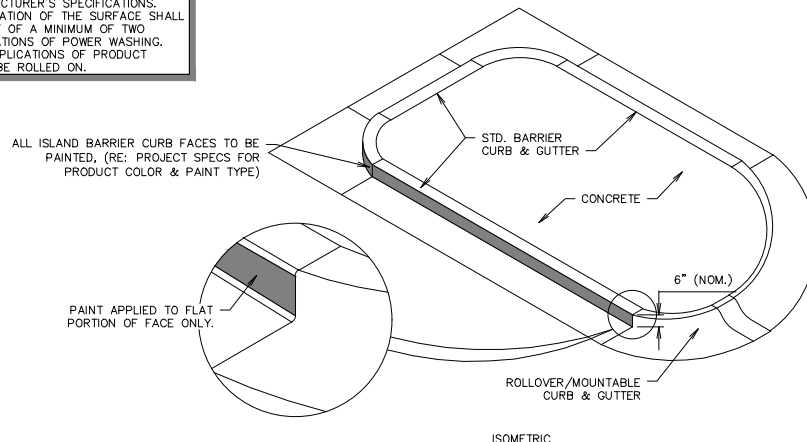
SHEET TITLE:

MISC. SITE DETAILS

SHEET NUMBER:

C500

CONSTRUCTION SET ISSUE DATE:

L1						L6						L11					
NOT USED						NOT USED						NOT USED					
NTS						NTS						NTS					
SN:						SN:						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. PREPARATION OF THE SURFACE SHALL CONSIST OF A MINIMUM OF TWO APPLICATIONS OF POWER WASHING. 5. TWO APPLICATIONS OF PRODUCT SHALL BE ROLLED ON. 					
F1						F11											
PARKING LOT CURB RAMP @ ADA CROSSING						ISLAND - BARRIER CURB PAINTING DETAIL (NON-LANDSCAPED)											
NTS						NTS											
SN: AD012A003						SN: AD016A001											
A1						A6						A11					
NOT USED						NOT USED						NOT USED					
NTS						NTS						NTS					
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4						14						4					
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PROJECT NO.:

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Engineering • Surveying
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DESIGNED BY: AAB

DRAWN BY: KMT

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SHEET TITLE:

ADA DETAILS

SHEET NUMBER:

C511

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															LICENSED PROFESSIONAL ENGINEER Alan Betchan 25330 OKLAHOMA PROJECT NO.: AAB Engineering, LLC AAB Engineering • Surveying P.O. Box 2136 Sand Springs, OK 74063 OK CMB318 Exp. June 30, 2018 Office: (918) 514-4283 Fax: (918) 514-4288 QuikTrip No. 0033 2400 E. KENOSHA ST. BROKEN ARROW, OK QT © COPYRIGHT QUIKTRIP CORPORATION 2011 ANY UNAUTHORIZED USE, REPRODUCTION, PUBLICATION, DISTRIBUTION, OR SALE IN WHOLE OR IN PART, IS STRICTLY FORBIDDEN. PROTOTYPE: P-91 (05/02/2017) DIVISION: BROKEN ARROW VERSION: 001 DESIGNED BY: AAB DRAWN BY: KMT REVIEWED BY: <table><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> 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VERSION: 001
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DRAWN BY: KMT
REVIEWED BY:

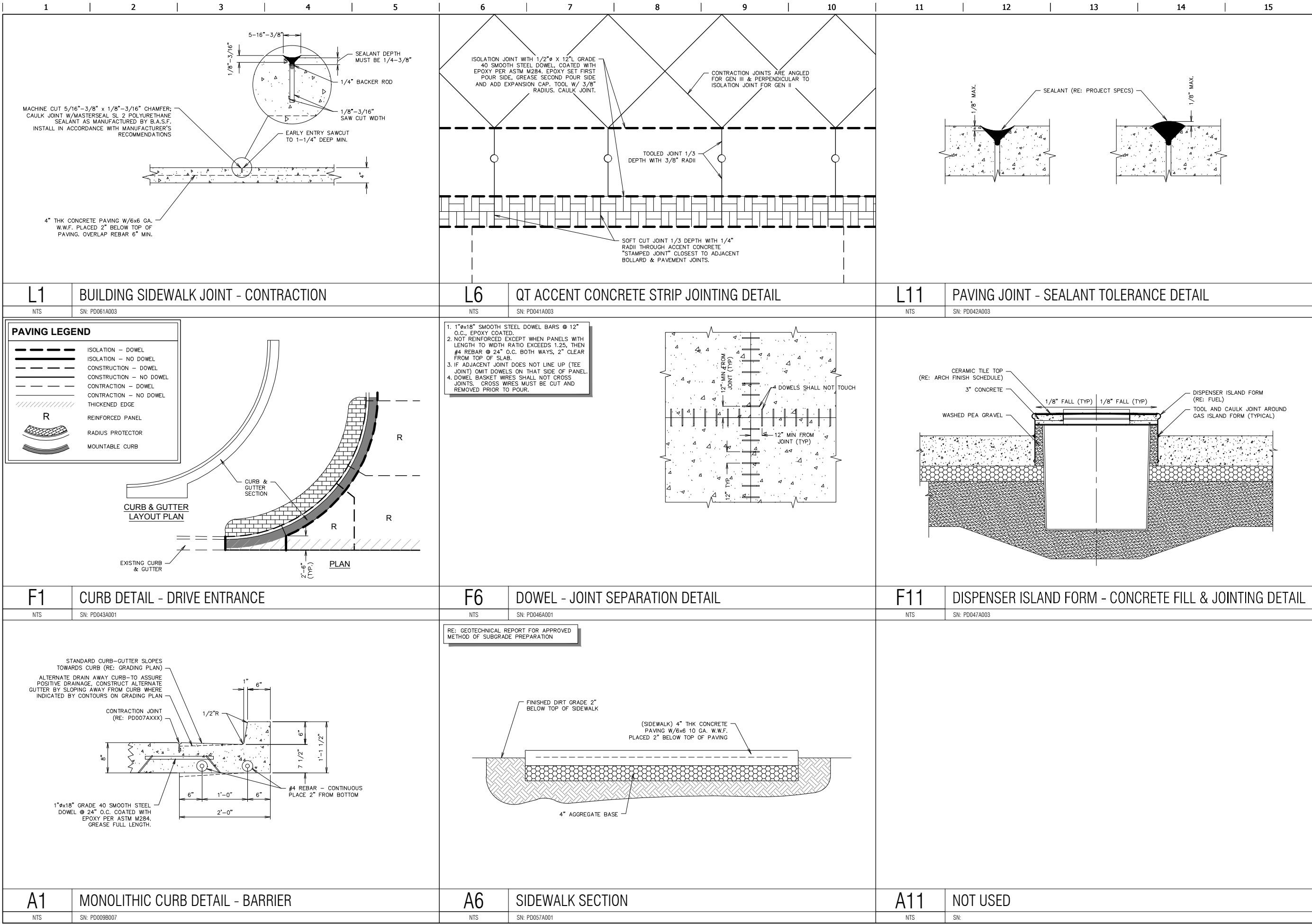
REV	DATE	DESCRIPTION

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 4 USER: Tech12 SAVED: 8/8/2017 3:43 PM PLOTTED: 8/15/2017 1:30 PM



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REVIEWED BY:

REV	DATE	DESCRIPTION

SHEET TITLE:
PAVING DETAILS

SHEET NUMBER:
C523

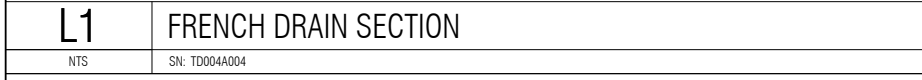


Diagram illustrating the cross-section of a trench with the following dimensions and materials:

- FINISH GRADE**: Indicated at the top surface of the trench.
- 2'-0" MIN.**: Minimum vertical dimension for the trench depth.
- 4" MIN.**: Minimum vertical dimension for the trench bottom layer.
- BACKFILL WITH TRENCH MATERIAL COMPACT TO 90% SPD**: Material filling the trench.
- 4" TO 6" LATERAL SANITARY SEWER LINE OR 4" TO 12" BLDG OR CANOPY STORM SEWER LINE**: Dimensions for the pipe being installed.
- 4" MIN.**: Minimum horizontal dimension for the trench width.
- 1'-4" MIN.**: Minimum horizontal dimension for the trench width.

F1	BUILDING OR CANOPY DRAINAGE TRENCH SECTION (NON PAVED)
----	--

1'-4" MIN.

FINISH GRADE

4'-0" MIN.

BACKFILL WITH TRENCH MATERIAL IN 12" LIFTS WITH VIBRATING TAMPER COMPACT TO 90% SPD

(3) 4" DIAMETER CONDUITS

The diagram shows a cross-section of a trench. At the bottom, three circular conduits are shown. Above them is a layer of backfill material, indicated by a cross-hatch pattern. The top of the backfill is labeled 'FINISH GRADE'. A vertical dimension line on the left indicates a minimum height of 4'-0". A horizontal dimension line at the top indicates a minimum width of 1'-4" for the central trench area.

A1	PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (NON PAVED)
----	---

6

7

8

9

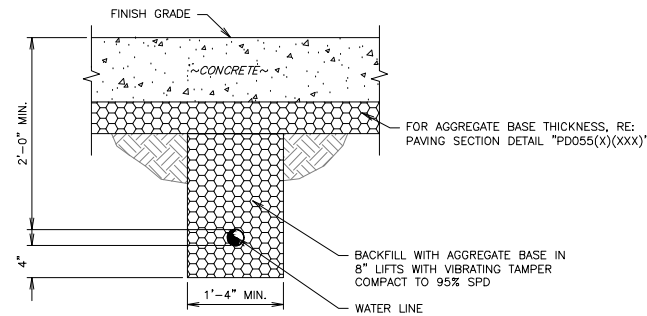
10

ALL COPPER PIPING SHALL BE TYPE K WRAPPED IN 3M VINYL TAPE FROM THE BUILDING TO THE METER.

ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS.

RE: PROJECT SPECS FOR GRADATION TABLE.

The diagram shows a cross-section of a trench. At the top is the 'FINISH GRADE'. Below it is a layer of 'CONCRETE' with a stippled pattern. Below the concrete is a layer of aggregate base, represented by a pattern of small circles. A dimension line on the left indicates a vertical distance of '2'-0" MIN.' from the finish grade to the top of the aggregate base. A label points to this aggregate base layer with the text: 'FOR AGGREGATE BASE THICKNESS, RE: PAVING SECTION DETAIL "PD055(X)(XXX)"'. Below the aggregate base is a layer of backfill, also represented by a pattern of small circles. A label points to this backfill layer with the text: 'BACKFILL WITH AGGREGATE BASE IN 8" LIFTS WITH VIBRATING TAMPER COMPACT TO 95% SPD'. A horizontal dimension line at the bottom indicates a width of '1'-4" MIN.' for the backfill. A dashed line at the very bottom is labeled 'WATER LINE'.

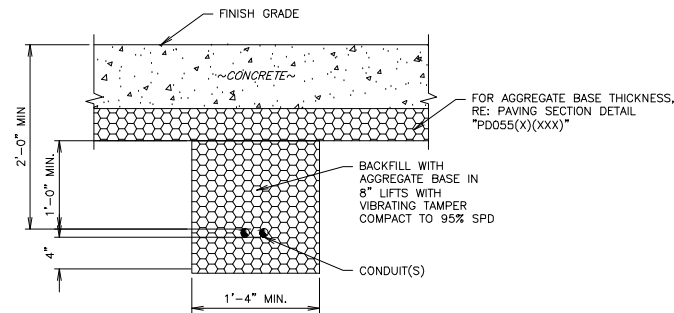


L6	ON-SITE WATER LINE TRENCH SECTION (PAVED)
----	---

[illegible]

F6	ON-SITE WATER LINE TRENCH SECTION (NON PAVED)
----	---

NTS	SN: TD008A002
EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS RE. PROJECT SPECS FOR GRADATION TABLE.	



A6	1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (PAVED)
-----------	---

11 | 12 | 13 | 14 | 15

EXTEND 18" BEYOND BACK OF CURB (OUTSIDE OF ALL PAVED AREAS) BEFORE TRANSITIONING TO NON-PAVED TRENCH DETAIL.

MIN. DRAIN PIPE CLEARANCE MAY BEGIN @ 1'-0" FROM T.O.P. TO FINISH GRADE IF CONDITIONS WARRANT DUE TO GRADES, ROCK, ETC.

RE. PROJECT SPECS FOR GRADATION TABLE.

FINISH GRADE

~CONCRETE~

2'-0" MIN.

4" MIN.

4" MIN.

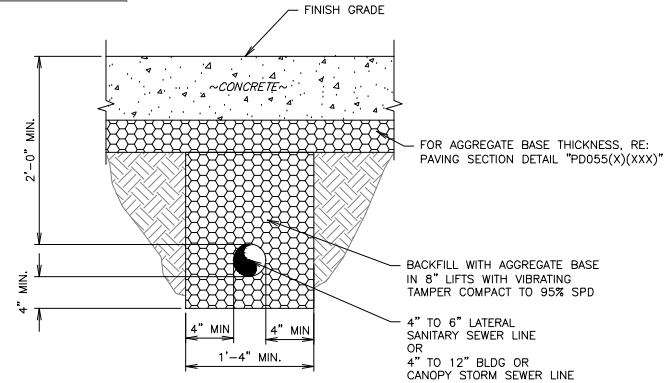
4" MIN.

1'-4" MIN.

FOR AGGREGATE BASE THICKNESS, RE: PAVING SECTION DETAIL "PD055(X)(XXX)"

BACKFILL WITH AGGREGATE BASE IN 8" LIFTS WITH VIBRATING TAMPER COMPACT TO 95% SPD

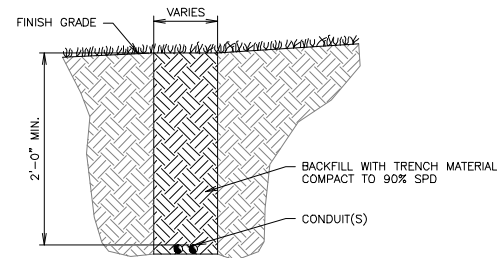
4" TO 6" LATERAL SANITARY SEWER LINE OR 4" TO 12" BLDG OR CANOPY STORM SEWER LINE



L11	BUILDING OR CANOPY DRAINAGE TRENCH SECTION (PAVED)
-----	--

F11	PRIMARY ELECTRICAL & TELEPHONE CONDUIT TRENCH SECTION (PAVED)
-----	---

NTS	SN: TD010A004
TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT. ALWAYS ATTEMPT TO RUN UTILITY TRENCH OUTSIDE OF PAVED AREA WHEN AVAILABLE - RE: PLAN SHEETS	



A11	1" Ø OR SMALLER ELECTRICAL CONDUIT TRENCH SECTION (UNPAVED)
-----	---



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VERSION: 001
DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

[illegible]

SHEET TITLE:

TRENCHING DETAILS

SHEET NUMBER:

C530

FILE LOCATION:P:\1815\06-QT 0033\DETAILS TRENCHING.dwg TAB NAME:Trenching Details Sheet 2 USER:Tech12 SAVED:8/9/2017 3:43 PM PLOTTED:8/15/2017 1:30 PM

12345					678910					1112131415				
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.					EXTEND THIS SECTION 5' BEYOND BACK OF CURB (OUTSIDE EDGE OF DRIVE) RE. PROJECT SPECS FOR GRADATION TABLE.					TRENCH MATERIAL SHALL CONSIST OF DRY, ROCK-FREE DIRT.				
L1EXCAVATION BENCHING DETAIL					L6TYPICAL IRRIGATION PIPING TRENCH SECTION (PAVED)					L11TYPICAL IRRIGATION PIPING TRENCH SECTION (NON PAVED)				
NTSSN: TD014A002					NTSSN: TD015A004					NTSSN: TD016A002				
F1NOT USED					F6NOT USED					F11NOT USED				
NTSSN:					NTSSN:					NTSSN:				
A1NOT USED					A6NOT USED					A11NOT USED				
NTSSN:					NTSSN:					NTSSN:				
12345					678910					1112131415				

ALAN BETCHAN
25330
8-4-2017
OKLAHOMA

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DESIGNED BY: AAB
DRAWN BY: KMT
REVIEWED BY:

REV

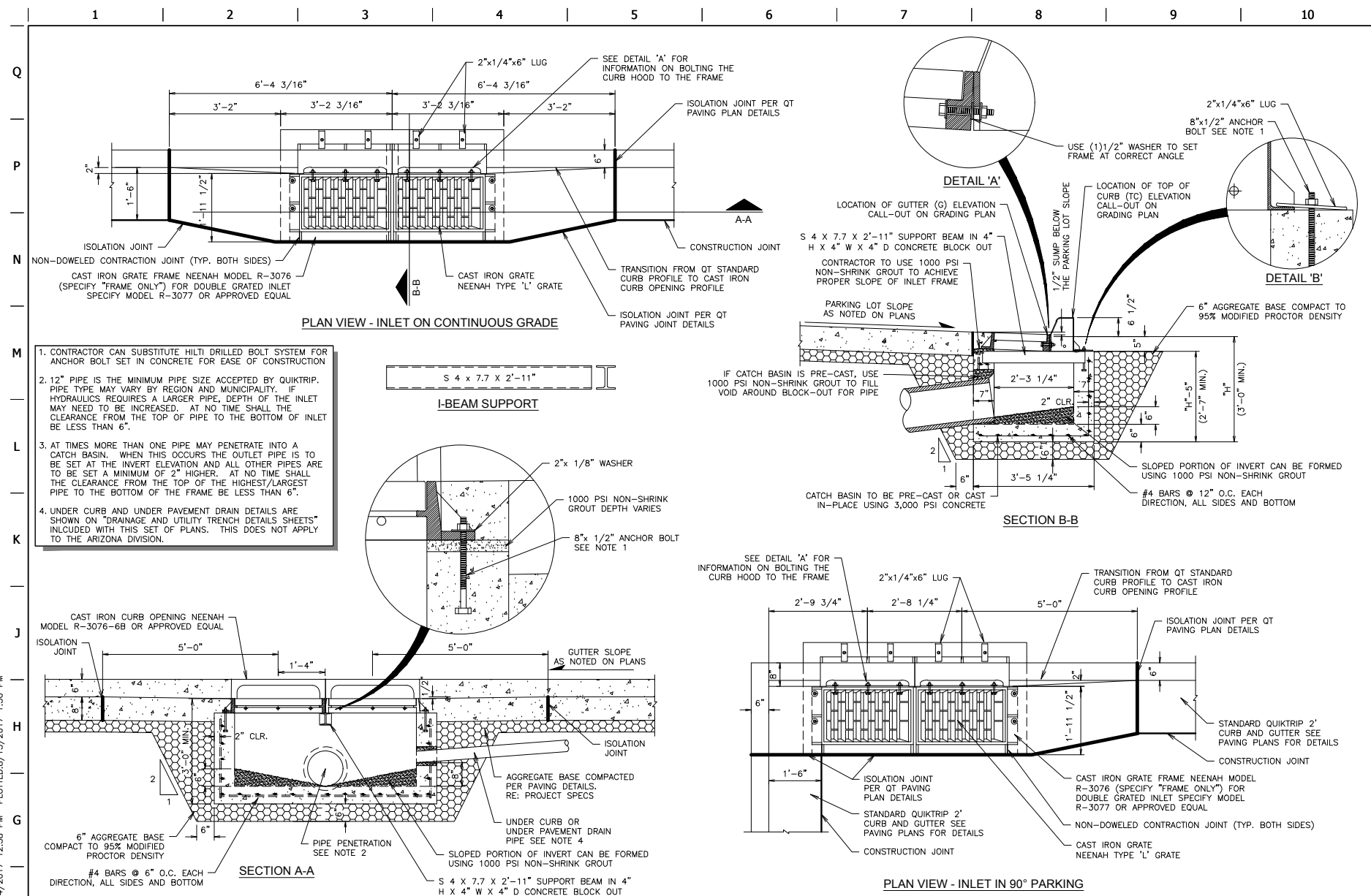
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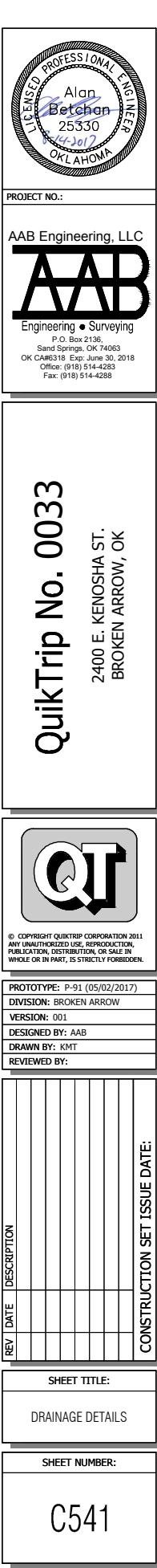
CONSTRUCTION SET ISSUE DATE:

SHEET TITLE:
TRENCHING DETAILS

SHEET NUMBER:
C531



	11		12		13		14		15	
L11		NOT USED								
NTS		SN:								
F11		NOT USED								
NTS		SN:								
A11		NOT USED								
NTS		SN:								



Landscape Schedule					
USE	SYMBOL	COMMON NAME <i>Botanical Name</i>	MINIMUM SIZE/ HEIGHT/SPREAD	QUANTITIES	COMMENTS
FRONTAGE TREES		CRAPE 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 Chinesis</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" x 16" HT MIN	260 EA.	
MISC		TIFWAY 419 BERMUDA SOD		13,309 S.F.	



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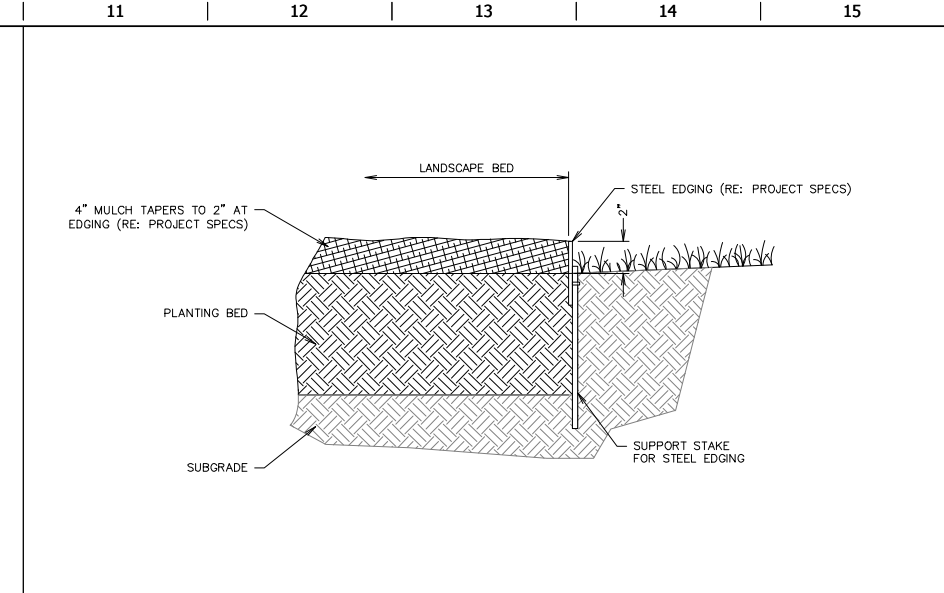
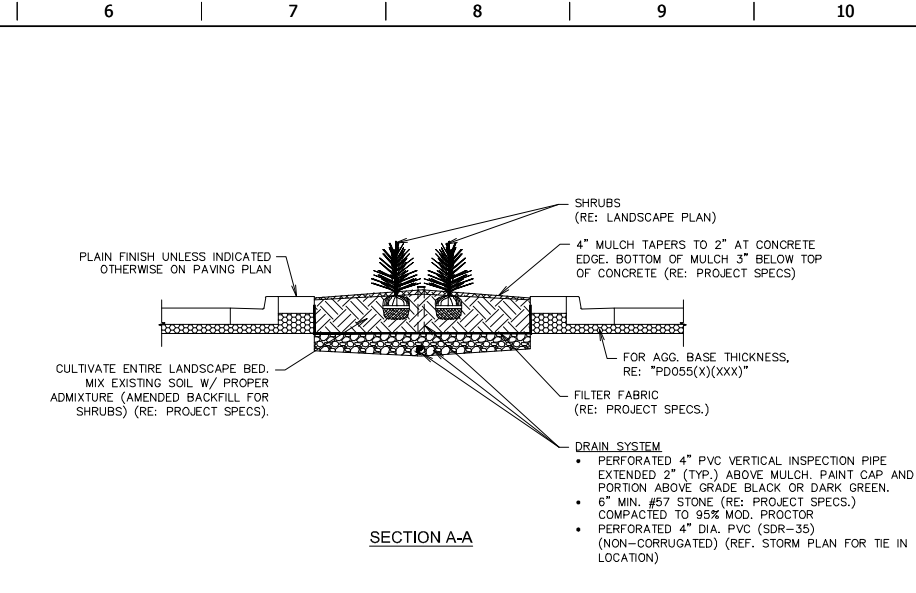
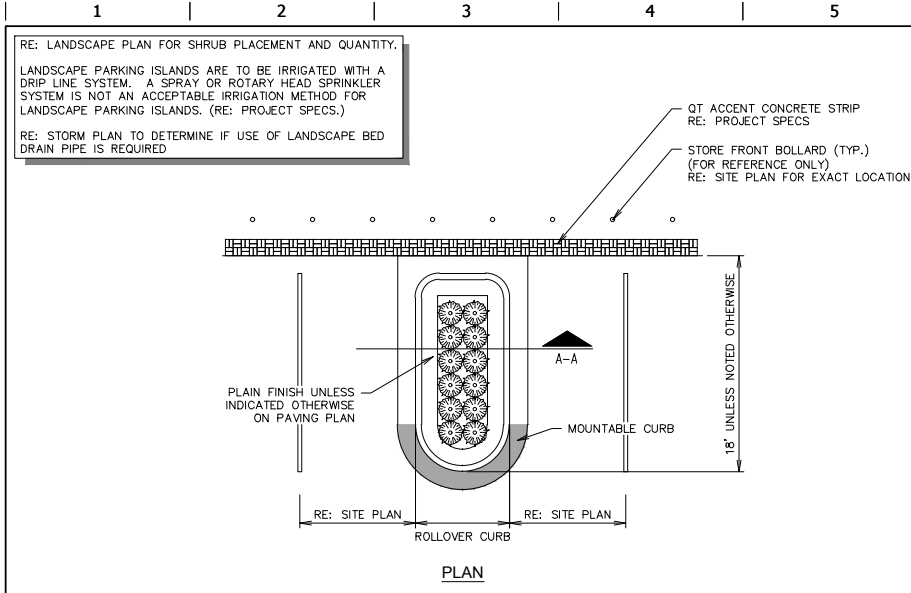
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SHEET TITLE:

LANDSCAPE PLAN

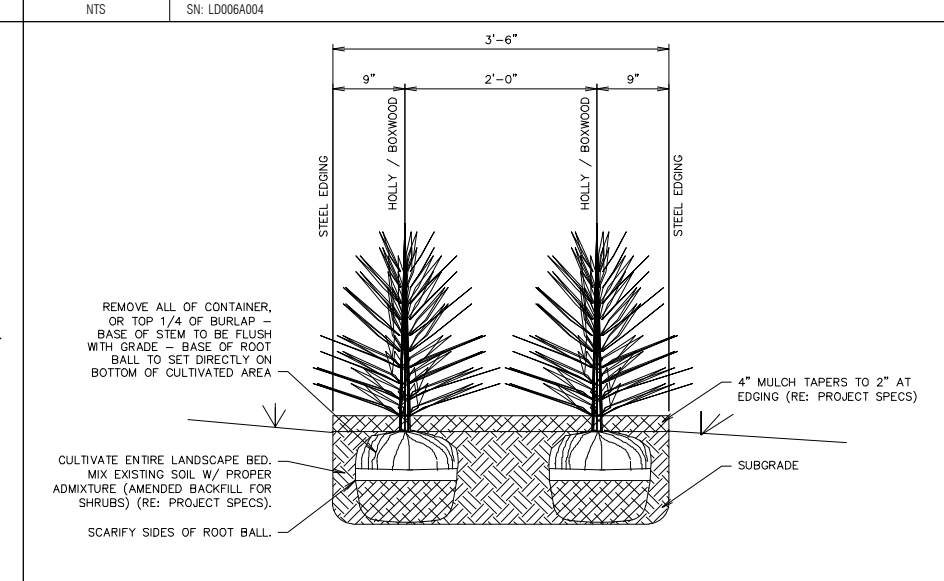
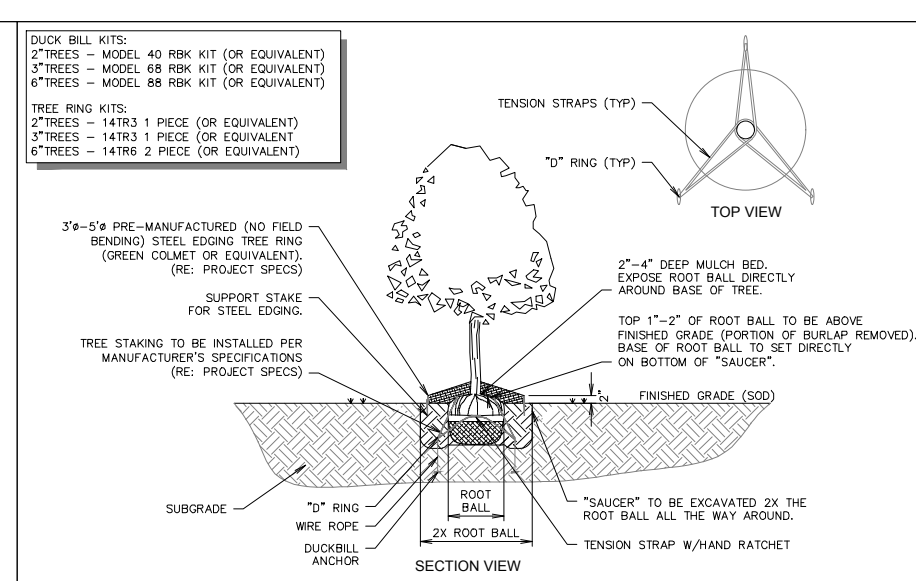
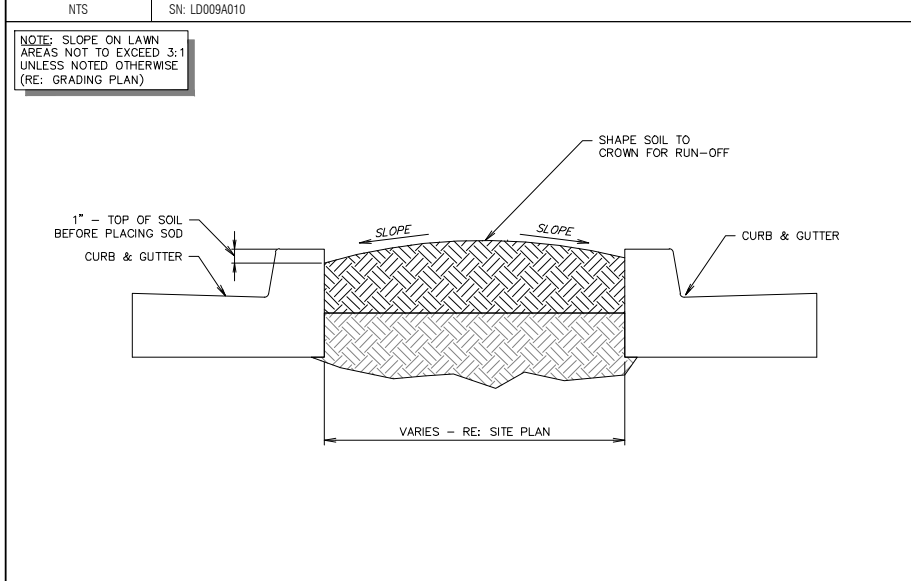
SHEET NUMBER:

L100



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
-----	-----------------------------

NTS	SN: LD007A002	NTS	SN: LD008B001	NTS	SN: LD005A004
A1	NOT USED	A6	NOT USED	A11	NOT USED
NTS	SN:	NTS	SN:	NTS	SN:

