VERTICAL CONTROL: ADS CAP "BA41" ELEV = 792.44 (NGVD 1929)

TOPOGRAPHIC INFORMATION SHOWN HEREIN WAS PROVIDED BY THE CITY OF BROKEN ARROW

BEFORE YOU DIG! CALL OKIE 1-800-522-6543



UTILITIES LOCATION SHOWN ON PLAN AND PROFILE WERE OBTAINED FROM INFORMATION PROVIDED BY UTILITY SYSTEM OWNER IN CONJUNCTION WITH EXISTING PHYSICAL FEATURES VISIBLE AT THE TIME OF THE TOPOGRAPHIC SURVEY. LOCATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

UTILITY CONTACTS

City of Broken Arrow, Oklahoma City Engineer, Tom Hendrix P.E. 485 N. Poplar. Ave Broken Arrow, Oklahoma 74012 (918) 259-7000 ext. 5414 (918)259-8453 (Fax)

City of Broken Arrow, Oklahoma Water & Sewer, Paul Rhodes 485 N. Poplar. Ave Broken Arrow, Oklahoma 74012 (918) 259-7000 x7373 (918) 251-3383 (Fax)

Attn.: Doyle Goins

P.O. Box 871

(918) 451-3814

Tulsa, Oklahoma 74102

(918) 451-0899 (Fax)

Oklahoma Natural Gas (New Const.)

City of Broken Arrow, Oklahoma Street/Stormwater. Steve Arant P.E. 485 N. Poplar. Ave Broken Arrow, Oklahoma 74012 (918) 259-7000 x7373 (918) 251-3383 (Fax)

5854 East 15th Street Tulsa, Oklahoma 74112 (918) 831-8292 (918) 831-8249 (Fax) Oklahoma Natural Gas (Existing Const.) Cox Communications Attn.: Mike Pelfrey Attn.: Craig Irons

Tulsa, OK 74145 (918) 459-3635 (918)669-4869 (Fax) Windstream Communication Attn.: George White 2300 South 1st Place

4340 S. Mingo Rd

(918) 451-3431

AEP / PSO Attn.: Jim Wilson 5223 S Garnett Broken Arrow, Oklahoma 74012 Tulsa, OK 74149 (918) 599-2912 (918) 451-1865 (Fax) (918) 247-8466 (Fax)

CONVENTIONAL SYMBOLS ---- SECTION LINES PROPOSED ROAD **RIGHT-OF-WAY LINES - NEW** RIGHT-OF-WAY LINES - EXISTING OVERHEAD ELECTRIC LINES OVERHEAD TELEPHONE LINES SANITARY SEWERS UNDERGROUND TELEPHONE LINES UNDERGROUND ELECTRIC **UNDERGROUND CABLE TELEVISION LINES**

CITY OF BROKEN ARROW STANDARD CONSTRUCTION SPECIFICATIONS, AUGUST 19, 1999, AND CURRENT OKLAHOMA STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, APPROVED BY THE DEPARTMENT OF TRANSPORTATION, SEPTEMBER 21, 1999 SHALL GOVERN ALL CONSTRUCTION

STORM SEWER

THESE PLANS AND DRAWINGS ARE NOT TO BE CHANGED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF HRAOK, INC., ANY CHANGES MADE FROM THESE PLANS WITHOUT CONSENT OF HRAOK, INC. ARE UNAUTHORIZED, AND SHALL RELIEVE HRAOK, INC. OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGES.



PLAN OF PROPOSED

ELM PLACE EXTENSION

FAA SITE TO OMAHA STREET

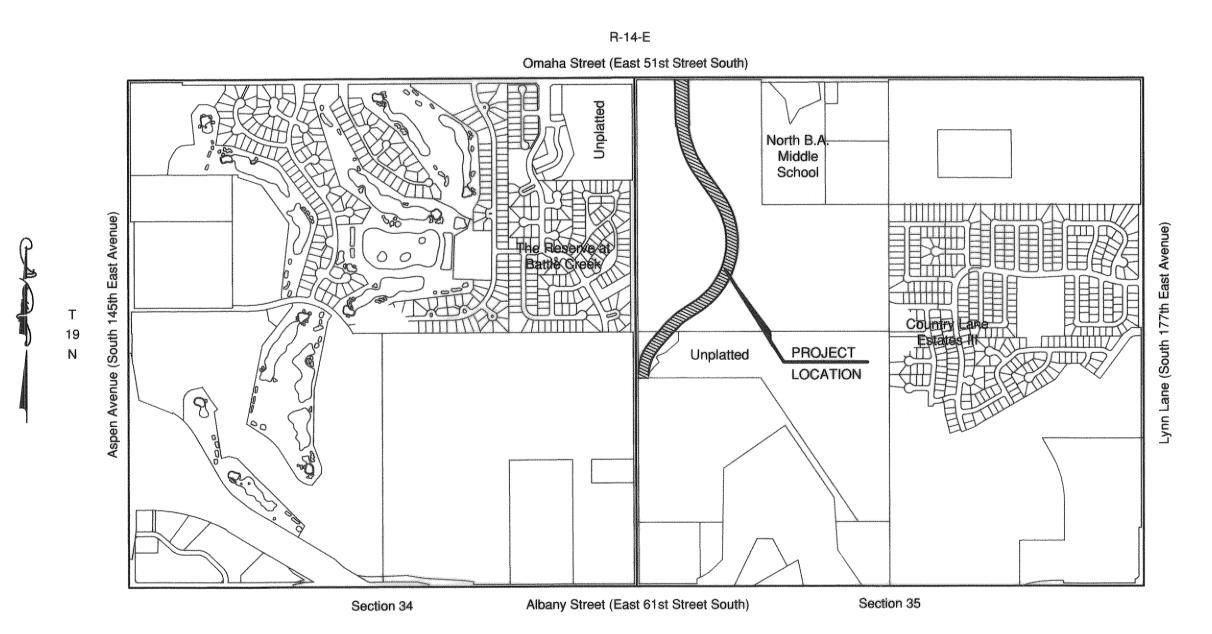
STREET AND DRAINAGE IMPROVEMENTS SECTION 35, TOWNSHIP 19 NORTH, RANGE 14 EAST

PROJECT NUMBER ST.0611

TULSA COUNTY

DESIGN CRITERIA

PROJECT LENGTH......3352.17 FT. (0.63 MI.) DESIGN SPEED......40 MPH



HRAOK, INC

1913 WEST TACOMA - SUITE A VOICE: (918) 258-3737 BROKEN ARROW, OKLAHOMA 74012 FAX: (918) 258-2554 CA# 3643 EXP. DATE: 6-30-2009

RECORD PLANS To the best of my knowledge, from the information available, these "Record Plans" are in substantial compliance

INDEX OF SHEETS DESCRIPTION SHEET COVER SHEET TYPICAL SECTIONS AND DETAILS. QUANTITIES, PAY NOTES AND GENERAL NOTES. SURVEY AND GEOMETRIC DATA. PLAN AND PROFILES. STORM SEWER PROFILES

STORM WATER POLLUTION PREVENTION PLAN.

10-11

14-16

17-19

PAVEMENT MARKING.

WATERLINE PROFILE.

DETAIL SHEETS.

CROSS SECTIONS.

EROSION CONTROL PLAN...

CITY OF BROKEN ARROW COUNCIL MAYOR WADE McCALEB VICE MAYOR MIKE LESTER MEMBER RICHARD CARTER MEMBER **CRAIG THURMOND** MEMBER .. PHILIP TUCKER

APPROVED

DAVID L. WOODEN, P.E.

ASSISTANT CITY MANAGER

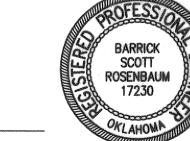
RECOMMENDED FOR APPROVAL

DATE KENNETH D. SCHWAB, P.E., C.F.M.

DIRECTOR OF ENGINEERING & CONSTRUCTION

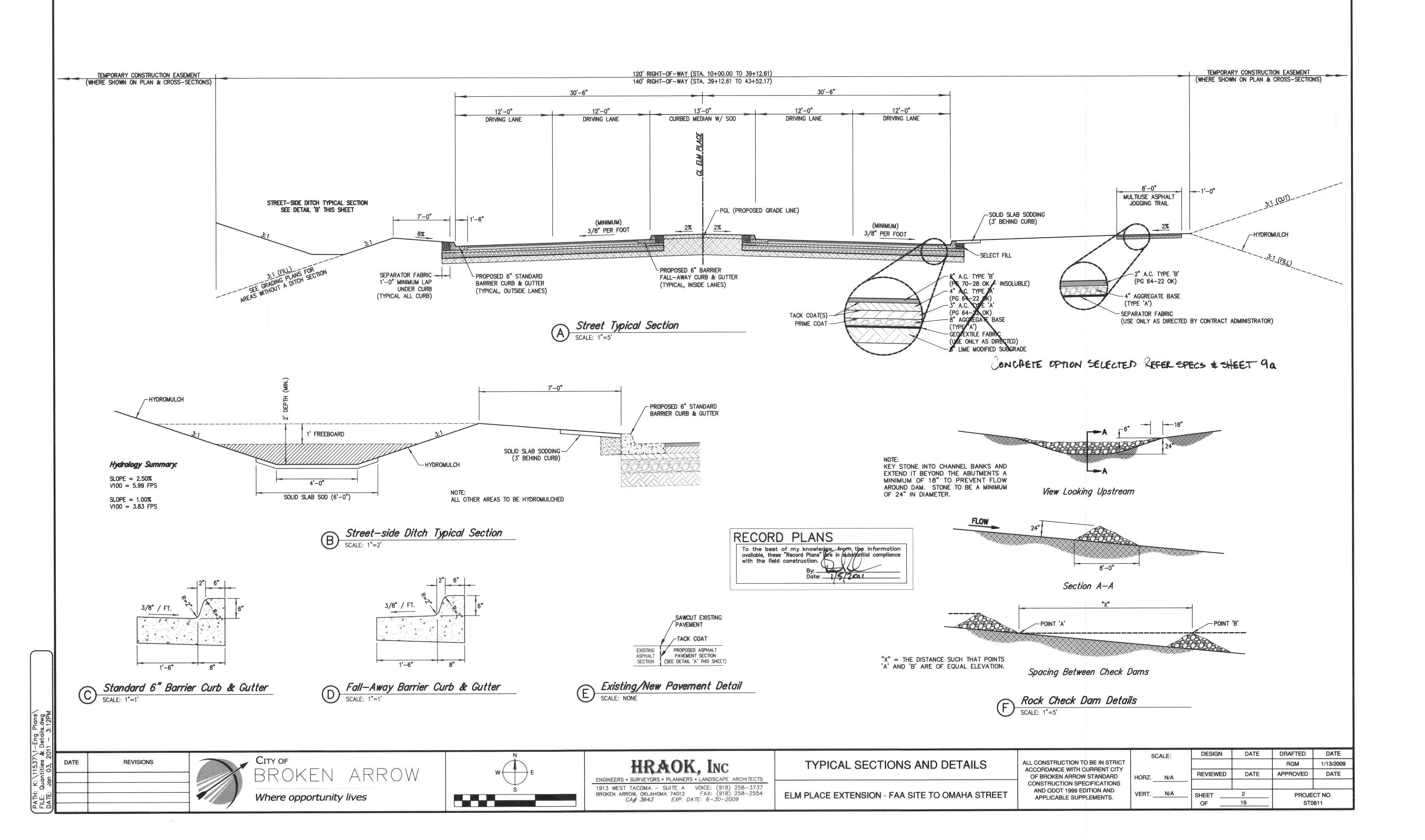
DATE

STEVE ARANT, P.E. DIRECTOR OF STREETS & STORMWATER



ENGINEER OF RECORD BARRICK ROSENBAUM, P.E.

DATE: 3/13/2009



WATERLINE BASE BID PAY QUANTITIES							
ITEM NO.	SPEC. NO.	DESCRIPTION	NOTES	UNITS	QUANTITY		
48	612(G)	WATER VALVES ADJUST TO GRADE	19,30	EA	1		
49	49 612(H) WATER METER BOXES ADJUST TO GRADE			EA	1		
50	50 612(H) FIRE HYDRANTS ADJUST TO GRADE			EA	1		
51	612(H)	12" C900 (COMPLETE)		LF	3,566		
52	612(H)	12"x12"x6" TEE		EA	7		
53	612(H)	12" 22 1/2° BEND		EA	2		
54	612(H)	12" 45' BEND		EA	6		
55	612(H)	6" GATE VALVE		EA	7		
56	612(H)	12" GATE VALVE		EA	4		
57	612(H)	VALVE BOX		EA	13		
58	612(H)	3-WAY FIRE HYDRANT	31	EA	7		
59	613(C)	TRENCH EXCAVATION AND BACKFILL (WATERLINE)		CY	1,648		

ALTERNATE BID ITEMS							
ITEM NO.	SPEC. NO.	DESCRIPTION	NOTES	UNITS	QUANTITY		
60	610(A)	8'-0" ASPHALT JOGGING TRAIL (COMPLETE)		SY	3,042		
61	610(B)	4' CONCRETE SIDEWALK (COMPLETE)		SY	73		
62	610(C)	HANDICAP RAMP		EA	2		

Pay Item Notes:

- THIS ITEM SHALL INCLUDE COST OF BRACING UTILITY POLES. CONTRACTOR SHALL CONTACT
 THE APPROPRIATE UTILITY COMPANY PRIOR TO BRACING TO COORDINATE THE BRACING
 OF THE POLE. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 2. CONTRACTOR SHALL FURNISH TEMPORARY FENCING WHERE REQUIRED. COST TO BE INCLUDED UNDER PAY ITEM "RIGHT-OF-WAY CLEARING AND RESTORING".
- 3. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF ALL BUSHES, TREES AND SHRUBBERY, FENCE, DRAINAGE STRUCTURES, DRIVEWAY DRAINAGE PIPES AND THE REMOVAL OF ANY OTHER ITEM NOT PAID FOR SEPARATELY AND REQUIRED FOR A COMPLETE PROJECT. ALL ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM IN A MANNER ACCEPTABLE TO THE CONTRACT ADMINISTRATOR WITHOUT ADDITIONAL COST TO THE CITY.
- 4. CLEARING OF EXISTING TREES AND SHRUBS WITHIN THE CONSTRUCTION ZONE WILL BE KEPT TO THE MINIMUM NECESSARY TO COMPLETE CONSTRUCTION.
- 5. COST TO INCLUDE EXCAVATION AND DISPOSAL OFF-SITE BY CONTRACTOR IN A MANNER ACCEPTABLE TO THE CONTRACT ADMINISTRATOR. ALL USEABLE MATERIAL WILL BE PLACED ON-SITE IN ACCORDANCE WITH CITY SPECIFICATIONS FOR FILL PLACEMENT, AS DIRECTED BY THE CONTRACT ADMINISTRATOR. HAUL OFF WILL BE LIMITED TO UNSUITABLE SOILS.
- 6. ALL EXCAVATION MATERIAL INCLUDING CONCRETE AND ASPHALT FROM DRIVEWAYS, PATCHES, SIDEWALK, AND PAVEMENT AND CURB REMOVAL AS NECESSARY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE CONTRACT ADMINISTRATOR WITHOUT ADDITIONAL COST TO THE CITY.
- 7. AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 0-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 LBS. PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL (COST INCLUDED IN OTHER ITEMS OF WORK).
- 8. THIS ITEM INCLUDES THE COST OF CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY MEASURES AND DEVICES TO CONTROL EROSION AND SEDIMENT WITHIN THE PROJECT LIMITS INCLUDING, BUT NOT LIMITED TO, BALE BARRIERS, SILT FENCING, BERMS, DIKES, DRAINS AND ANY OTHER ITEM NOT PAID FOR SEPERATELY BUT REQUIRED FOR EFFECTIVE AND CONTINUOUS EROSION AND SEDIMENT CONTROL.
- 9. THIS ITEM INCLUDES THE COST OF CONSTRUCTION, MATERIALS, INCIDENTALS, ETC. AS NECESSARY TO COMPLETE THE CONSTRUCTION OF ROCK CHECK DAMS AS SHOWN ON THE PLANS AND DETAILS.
- 10. COST OF FERTILIZING AND WATERING SHALL BE INCLUDED IN THE COST OF SOLID SLAB SODDING, SPECIFICATION NUMBER 230.06(A) FERTILIZER SHALL BE 10-20-10 APPLIED AT THE RATE OF 200 POUNDS PER 1000 SQUARE FEET. FERTILIZER SHALL BE APPLIED PER SECTION 230.04(H). WATER SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE. CITY TO SUPPLY WATER FROM THE NEAREST CITY OF BROKEN ARROW FIRE HYDRANT AT NO COST TO THE CONTRACTOR. THIS ITEM INCLUDES 6,000 SY TO BE USED AS DIRECTED BY THE CONTRACT ADMINISTRATOR DURING CONSTRUCTION.
- 11. COST TO INCLUDE TEMPORARY AND PERMANENT SEEDING, FERTILIZING AND WATERING FOR ALL DISTURBED AREAS NOT SLAB SODDED. FERTILIZER SHALL BE 10-20-10 APPLIED AT THE RATE OF 150 POUNDS PER ACRE, SUPER TRIPLE PHOSPHATE (0-46-0) APPLIED AT THE RATE OF 400 POUNDS PER ACRE. WATER SHALL BE APPLIED AT THE RATE OF 80,000 GALS PER ACRE. TEMPORARY SEEDING SHALL BE PERENNIAL RYEGRASS (LOLIUM PERENNE) APPLIED AT THE RATE OF 90 POUNDS PER ACRE. PERMANENT SEEDING SHALL BE A MIXTURE OF 50% GUYMON BERMUDAGRASS (CYNODON DACTYLON) AND 50% TALL FESCUE (FESTUCA ARUNDINACEA) APPLIED AT A RATE OF 175 POUNDS PER ACRE. CITY TO SUPPLY WATER FROM THE NEAREST CITY OF BROKEN ARROW FIRE HYDRANT AT NO COST TO THE CONTRACTOR.
- 12. THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04(b)1 OF THE STANDARD SPECIFICATIONS. QUANTITIES BASED ON APPLICATION RATES OF 2 TONS OF MULCH PER ACRE AND 200 GALS ASPHALT EMULSION PER ACRE.
- 13. TO BE CALCULATED AS 7% OF DRY UNIT WEIGHT OF COMPACTED SUBGRADE. SUBGRADE TREATED EIGHT (8) INCHES DEEP (AS DIRECTED BY THE ENGINEER).
- 14. COST OF SOIL AND PAVEMENT TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. COST TO BE INCLUDED IN THE PRICE BID FOR EARTHWORK, CONCRETE, AND ASPHALT ITEMS
- 15. ESTIMATED AT 0.05 GAL. PER SQ. YD. PRIOR TO DILUTION.
- 16. ESTIMATED AT 114 LBS. PER SQ. YD. PER 1" THICK.
- 17. PRICE FOR MANHOLES, INLETS AND OTHER DRAINAGE STRUCTURES, INCLUDING JUNCTION BOXES, SHALL BE IN PLACE INCLUDING ALL BACKFILL, AND CONNECTION OF PIPING. PRICE SHALL INCLUDE INLET HOODS, FRAMES, COVERS, PRECAST CONCRETE INLET STRUCTURES AND ANY OTHER ITEMS NOT PAID FOR SERARATELY AND REQUIRED FOR A COMPLETE PROJECT.
- 18. THE TOTAL COST FOR JOINT SEALING (HOT POURED RUBBERIZED ASPHALT OR SILICONE) AT ALL MANHOLE, INLETS AND VALVE BOX APRONS SHALL BE INCLUDED IN THE BID PRICE FOR THAT ITEM.
- 19. ALL SALVAGED FITTINGS SHALL BE RETURNED TO THE CITY UTILITIES DEPARTMENT. THE COST OF REMOVING AND RETURNING FITTINGS SHALL BE INCLUDED IN PAY ITEMS "WATER VALVES ADJUST TO GRADE" AND "WATER METER BOXES ADJUST TO GRADE". NO ADDITIONAL PAYMENT SHALL BE MADE.
- 20. HIGH DENSITY POLYETHEYLENE SHALL BE ALLOWED IF NOT UNDER STREET SURFACE.
- 21. ASTM C-76 CLASS III WALL "B" PIPE SHALL BE TONGUE IN GROOVE OMNI FLEX, NO MASTIC ALLOWED.
- 22. IN LIEU OF FULL-DEPTH SAW CUT, THE CONTRACTOR MAY SAW A MINIMUM OF 4" DEEP AND BLADE THE REMAINING EDGE SMOOTH.

- 23. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ENTIRE LAYOUT, STAKING OF OFFSETS, ESTABLISHING VERTICAL AND HORIZONTAL CONTROL AND THE LOCATION OF ALL FEATURES REQUIRED TO COMPLETE THIS PROJECT. THIS WILL INCLUDE ALL HORIZONTAL AND VERTICAL INFORMATION REQUIRED AS WELL AS ANY RIGHT-OF-WAY LOCATION.
- 24. CONTRACTOR TO REMOVE EXISTING POLES, SIGNS, ETC. AND STORE IN A SAFE LOCATION FOR PICKUP BY CITY PERSONNEL.
- 25. COST SHALL INCLUDE ALL SIGNS, DRUMS, BARRICADES, PAINT, REMOVABLE MARKING TAPE, FLASHERS, AND FLAG MEN INCLUDING MAINTENANCE FOR THE DURATION OF THE PROJECT INCLUDING ADJUSTMENTS IN EACH STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A DETAILED CONSTRUCTION STAGING PLAN WITH A SCHEDULE SHOWING TIMES WHEN THE DIFFERENT STAGES WILL OCCUR.
- 26. ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. ALL FINAL OR FINISHED SURFACES SHALL BE STRIPED WITH THERMOPLASTIC STRIPE, UNLESS OTHERWISE NOTED ON PLANS. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- 27. CONTRACTOR TO PROVIDE TRAFFIC CONTROL AT INGRESS AND EGRESS POINTS AT ENDS OF PROJECT.
- 28. REFLECTIVE SHEETING SHALL BE EITHER "3-M" BRAND HIGH INTENSITY SHEETING OR AN APPROVED EQUAL.
- 29. ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTORS NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 30. TO BE USED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- 31. CLEAR TURN FOR FIRE HYDRANT CONNECTION NUT ON SIDE OF HYDRANT SHALL BE 18" MINIMUM (21" MAXIMUM).
- 32. ROCK EXCAVATION TO BE DETERMINED AS ANYTHING NOT RIPPABLE WITH A D8 STINGER OR EXCAVATED WITH A JOHN DEERE 3500LC.

General Construction Notes:

ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER ARE TO BE CLEANED OUT OF THE RIGHT OF WAY AT EACH STRUCTURE — IN A MANNER APPROVED BY THE CONTRACT ADMINISTRATOR. ALL COSTS TO BE INCLUDED IN THE PRICE BID OF OTHER ITEMS OF WORK.

ALL FLOW LINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE CONTRACT ADMINISTRATOR. COST OF SPRINKLING TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT OF WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED AND PERMANENT RIGHT OF WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE CONTRACT ADMINISTRATOR. COSTS OF TEMPORARY FENCING SHALL BE INCLUDED IN THE PRICE BID FOR RIGHT OF WAY CLEARING AND RESTORING.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCHES DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

EXCESS ASPHALT AT JOINTS AND CRACKS IN EXISTING PAVEMENT SHALL BE REMOVED FLUSH TO TOP OF PAVING IN A MANNER APPROVED BY THE ENGINEER.

ALL EXISTING STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS. COST TO BE INCLUDED IN THE PRICE BID OF OTHER ITEMS OF WORK.

ALTHOUGH SUCH WORK MAY NOT BE SPECIFICALLY INDICATED, FURNISH AND INSTALL ALL SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES AND DEVICES INCIDENTAL

TO OR NECESSARY FOR A SOUND, SECURE AND COMPLETE PROJECT.

EXISTING UTILITIES AND OTHER FACILITIES HAVE BEEN SHOWN ON THE DRAWINGS BASED ON FIELD SURVEYS, EXISTING MAPS, CITY ATLASES AND OTHER DRAWINGS WITHIN THE AREA OF THE PROJECT. UTILITIES AND FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY AND ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL DETERMINE, PRIOR TO COMMENCING THE WORK, THE EXACT LOCATION AND/OR ELEVATION OF ALL UTILITIES, PIPING, FACILITIES AND STRUCTURES WHICH MAY PERTAIN TO OR AFFECT THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY CAUSE TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING OR EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED, AT THE CONTRACTOR'S EXPENSE, TO THE AFFECTED UTILITY COMPANY'S SATISFACTION. PRIOR TO DIGGING NEAR UTILITIES THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND UTILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER
1-800-522-6543 1-800-522-8048 1-800-435-5456

THE TULSA COUNTY CLERK'S OFFICE 1-918-596-5000

CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED CONSTRUCTION SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK AND REPORTED TO THE CONTRACT ADMINISTRATOR. THE CONTRACTOR SHALL LOCATED OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES AND FACILITIES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE

OR RESOLVE ALL CONFLICTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE—CALL SYSTEM, INC ("OKIE") NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO COMMENCEMENT

CONTRACTOR SHALL FIELD VERIFY ALL CONSTRUCTION DIMENSIONS.

CONTRACTOR PROVIDE AND PRESERVE ALL CONSTRUCTION STAKING TO THE LINES, GRADES, SLOPES AND ELEVATIONS AS SHOWN ON THESE DRAWINGS.

WHERE MATERIALS ARE TRANSPORTED IN THE PROGRESSION OF THE WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE LOADING CAPACITY RECOMMENDED BY THE MANUFACTURER OF THE VEHICLE OR PRESCRIBED BY AN FEDERAL, STATE OR LOCAL LAW OR REGULATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING HIS TRUCKS FROM SCATTERING DEBRIS, MUD AND/OR SOIL ON PUBLIC ROADS. IT THIS OCCURS, THE CONTRACTOR WILL CLEAN UP DEBRIS AS REQUIRED BY THE CONTRACT ADMINISTRATOR, LOADED HAUL TRUCKS SHALL HAVE THEIR LOADS COVERED WITH TARPAULIN.

AREAS OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE FINE GRADED AND RESODDED PER THESE PLANS AT THE EXPENSE OF THE CONTRACTOR.

CONTRACTOR SHALL GIVE CITY OF BROKEN ARROW TRAFFIC OPERATIONS NOTICE OF ANY SAW CUTTING, EXCAVATION OR REMOVAL OF TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED IN A MANNER SO AS TO NOT DAMAGE THE SIGN AND/OR THE POST. ALL SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CONTRACTOR. ALL SIGNS WITHOUT SPECIFIC LOCATIONS INDICATED ON THE DRAWINGS WILL BE LOCATED BY THE CITY OF BROKEN ARROW.

THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS, UNSATISFACTORY OR UNSUITABLE MATERIAL IN SUCH A MANNER THAT AIR POLLUTION REGULATIONS AND SOLID WASTE DISPOSAL REGULATIONS ARE NOT VIOLATED AND PRIVATE OR PUBLIC PROPERTY IS NOT INJURED OR ENDANGERED. PERMISSION IN WRITING FROM THE PROPERTY OWNER MUST BE OBTAINED BY THE CONTRACTOR IF EXCESS, UNSATISFACTORY OR UNSUITABLE MATERIAL IS PLACED ON PRIVATE PROPERTY. IN NO CASE WILL EXCESS, UNSATISFACTORY OR UNSUITABLE MATERIAL BE LEFT IN THE RIGHT—OF—WAY.

THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND ADJOINING PAVEMENT IS ADVERSELY AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBGRADE AT HIS SOLE EXPENSE.

General Notes.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY WORK ORDERS AND PERMITS FROM THE CITY OF BROKEN ARROW, INCLUDING PROVISION OF BONDS AND INSURANCE AS REQUIRED.

TOPOGRAPHIC INFORMATION SHOWN HEREIN WAS PROVIDED BY THE CITY OF BROKEN ARROW, HOWEVER, CROSS SECTIONS FOR PURPOSES OF AERIAL VERIFICATION WERE PROVIDED BY HRAOK, INC. AND A DIGITAL FILE IS INCLUDED IN CONTRACT DOCUMENTS.

ALL STREET CROSSINGS SHALL BE RECOMPACTED TO 95% STANDARD PROCTOR DENSITY. BACKFILL SHALL BE SAND TO 6" ABOVE TOP OF PIPE OR CONDUIT, THEN LIMESTONE SCREENINGS TO THE TOP OF TRENCH.

CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION. COST INCLUDED IN OTHER ITEMS OF WORK.

PIPE BACKFILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES, AND COMPACTED BY VIBRATORY PLATE OR OTHER METHOD APPROVED BY THE ENGINEER.

PAVING SUBGRADE SHALL BE RESTORED TO PROPER GRADE (±0.1 FT) AND DENSITY AFTER PIPE IS BACKFILLED.

PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UNACCEPTABLE SUBGRADE AT ALL UTILITY, CABLE OR CONDUIT CROSSINGS.

PAVING SHALL CONFORM TO O.D.O.T. SPECIFICATIONS AND TO DESIGN STANDARDS OF THE CITY OF BROKEN ARROW.

RECORD PLANS

To the best of my knowledge, from the information available, these "Record Plans" are in substantial compliance with the field construction.

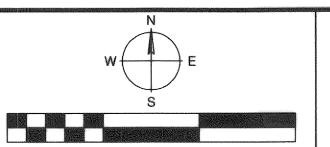
By:

Date: 15/2011

DATE REVISIONS

CITY OF
BROKEN ARRO

Where opportunity lives



HRAOK, INC QUA

ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS

1913 WEST TACOMA — SUITE A VOICE: (918) 258-3737

BROKEN ARROW, OKLAHOMA 74012 FAX: (918) 258-2554

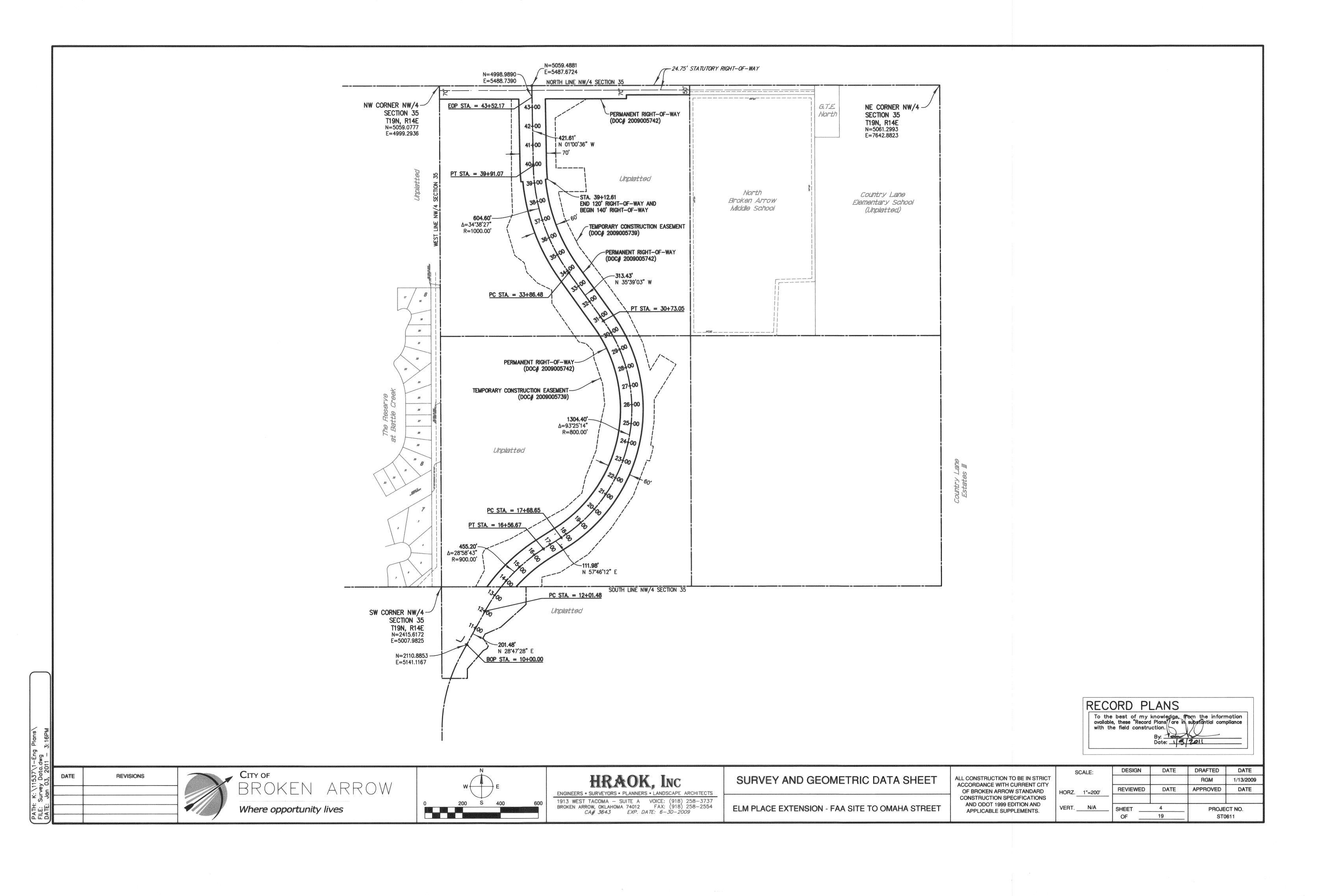
CA# 3643 EXP. DATE: 6-30-2009

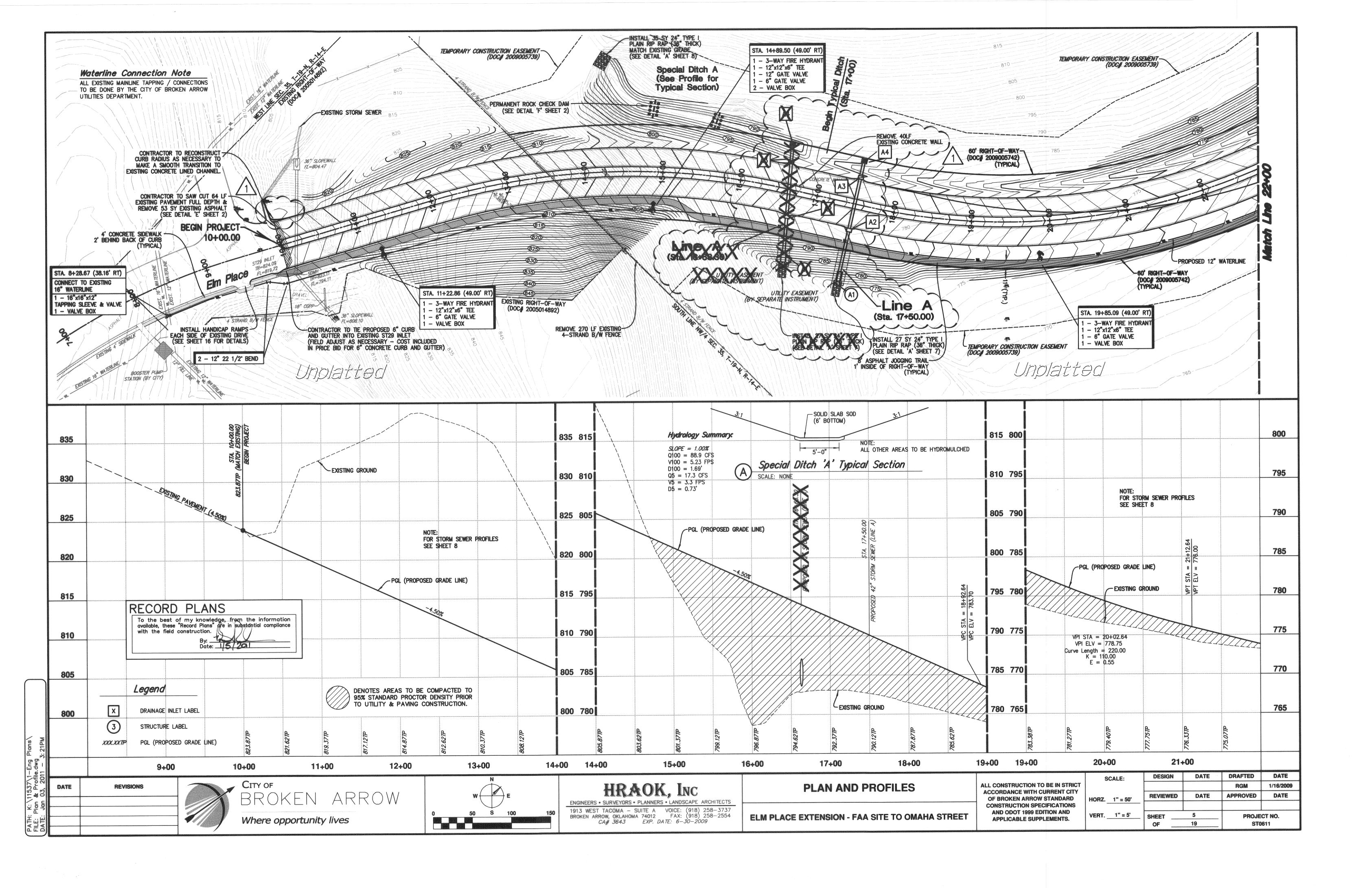
QUANTITIES, PAY NOTES AND GENERAL NOTES

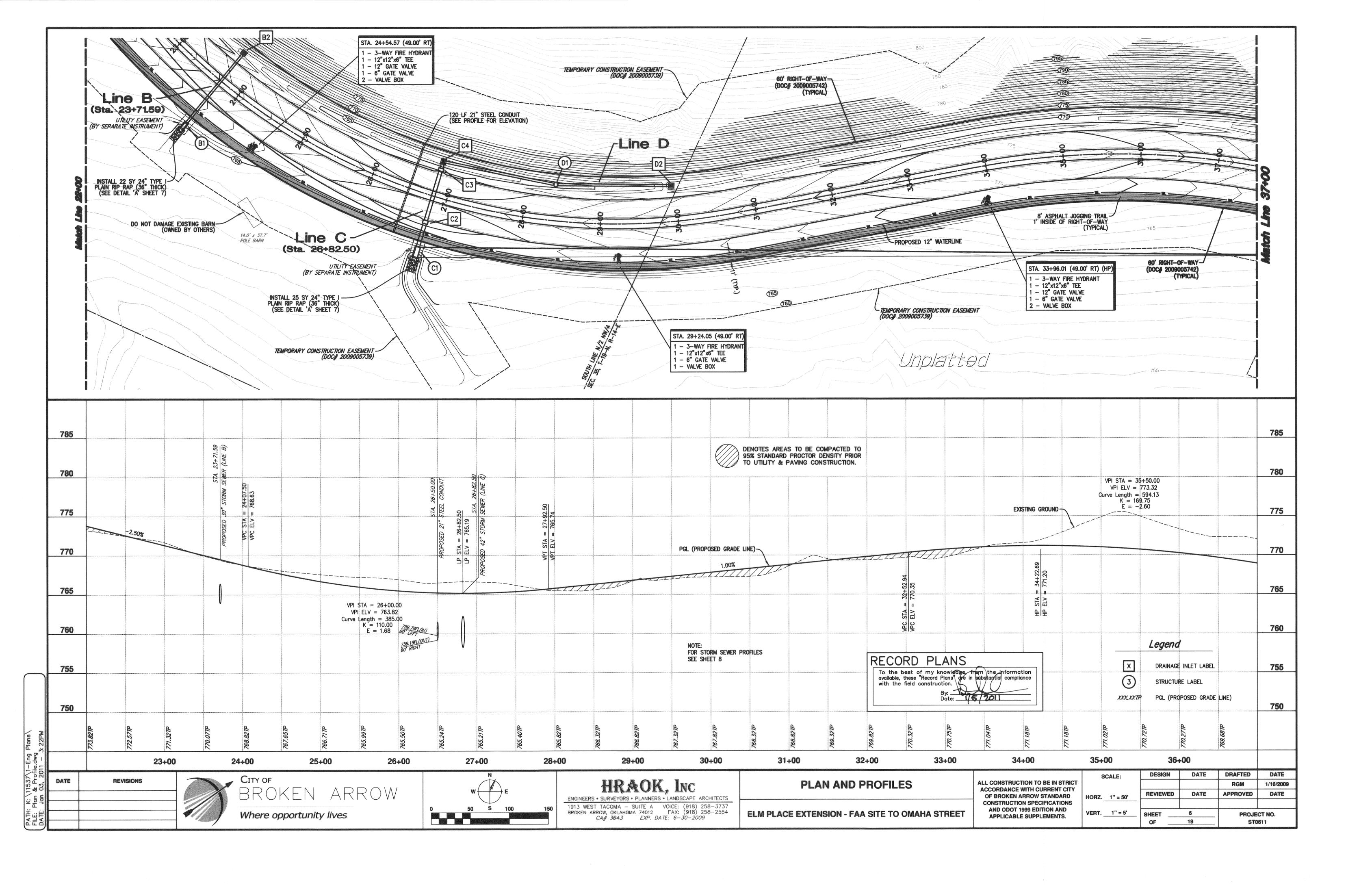
ELM PLACE EXTENSION - FAA SITE TO OMAHA STREET

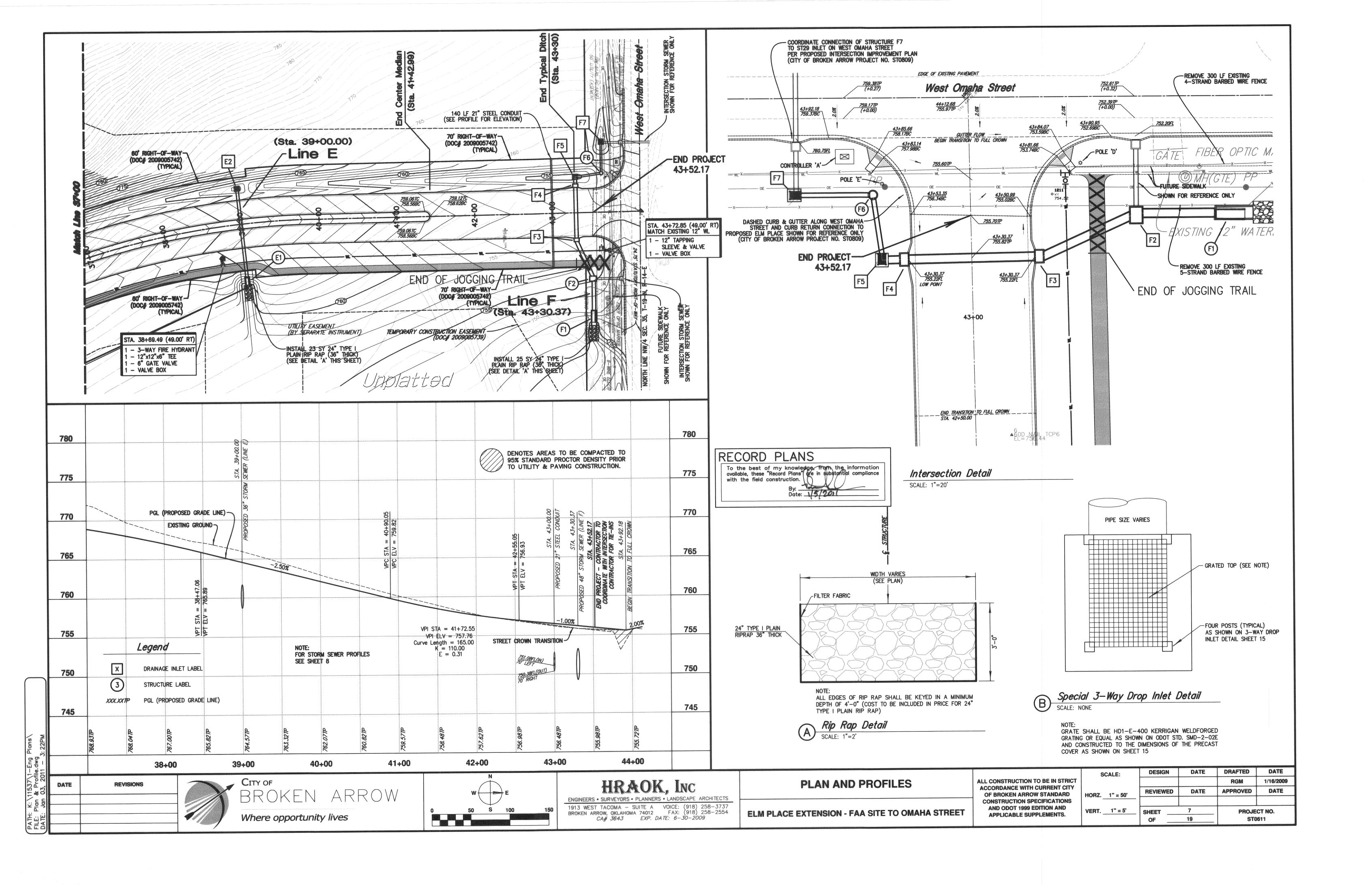
ALL CONSTRUCTION TO BE IN STRICT
ACCORDANCE WITH CURRENT CITY
OF BROKEN ARROW STANDARD
CONSTRUCTION SPECIFICATIONS
AND ODOT 1999 EDITION AND
APPLICABLE SUPPLEMENTS.

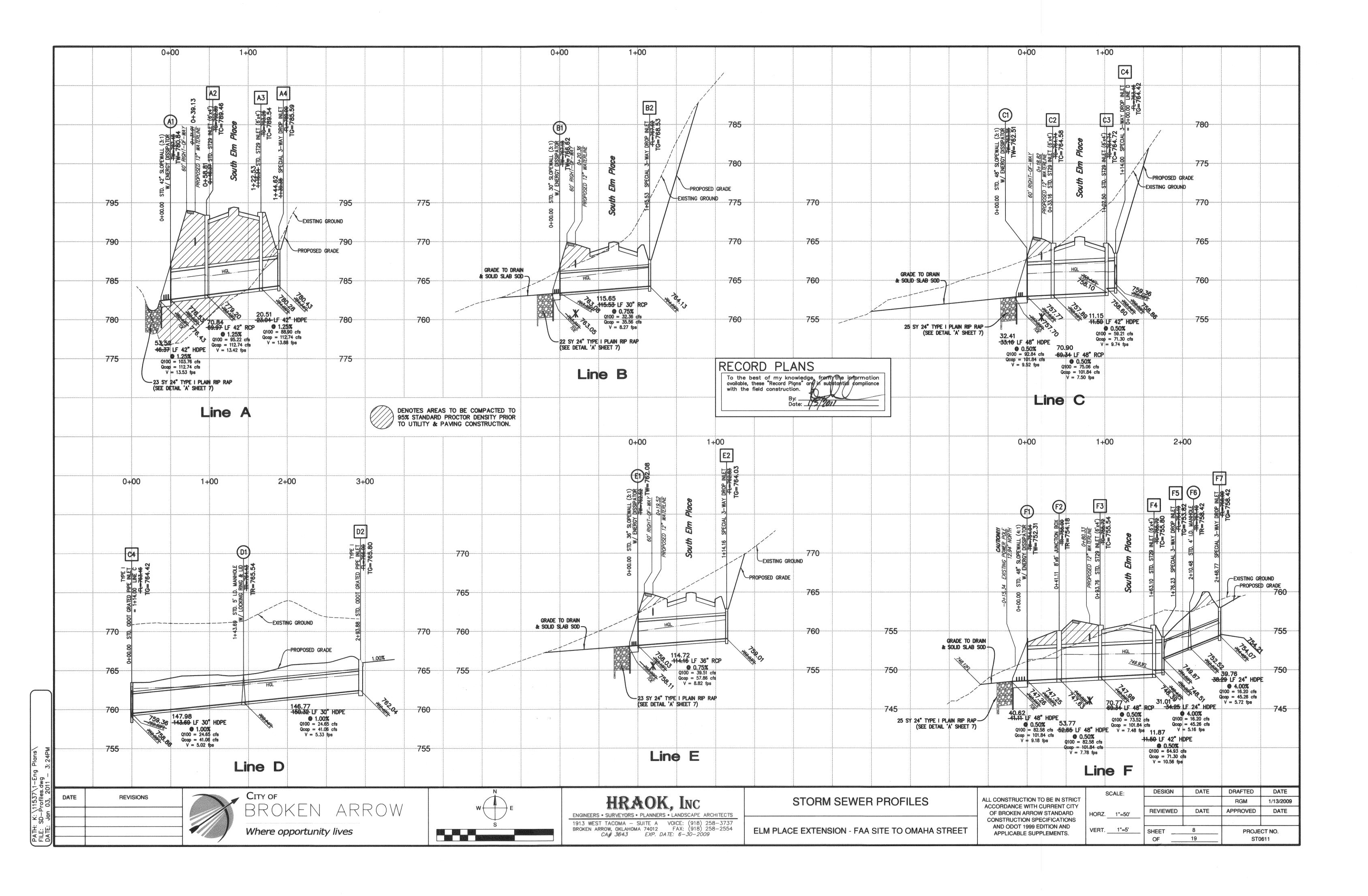
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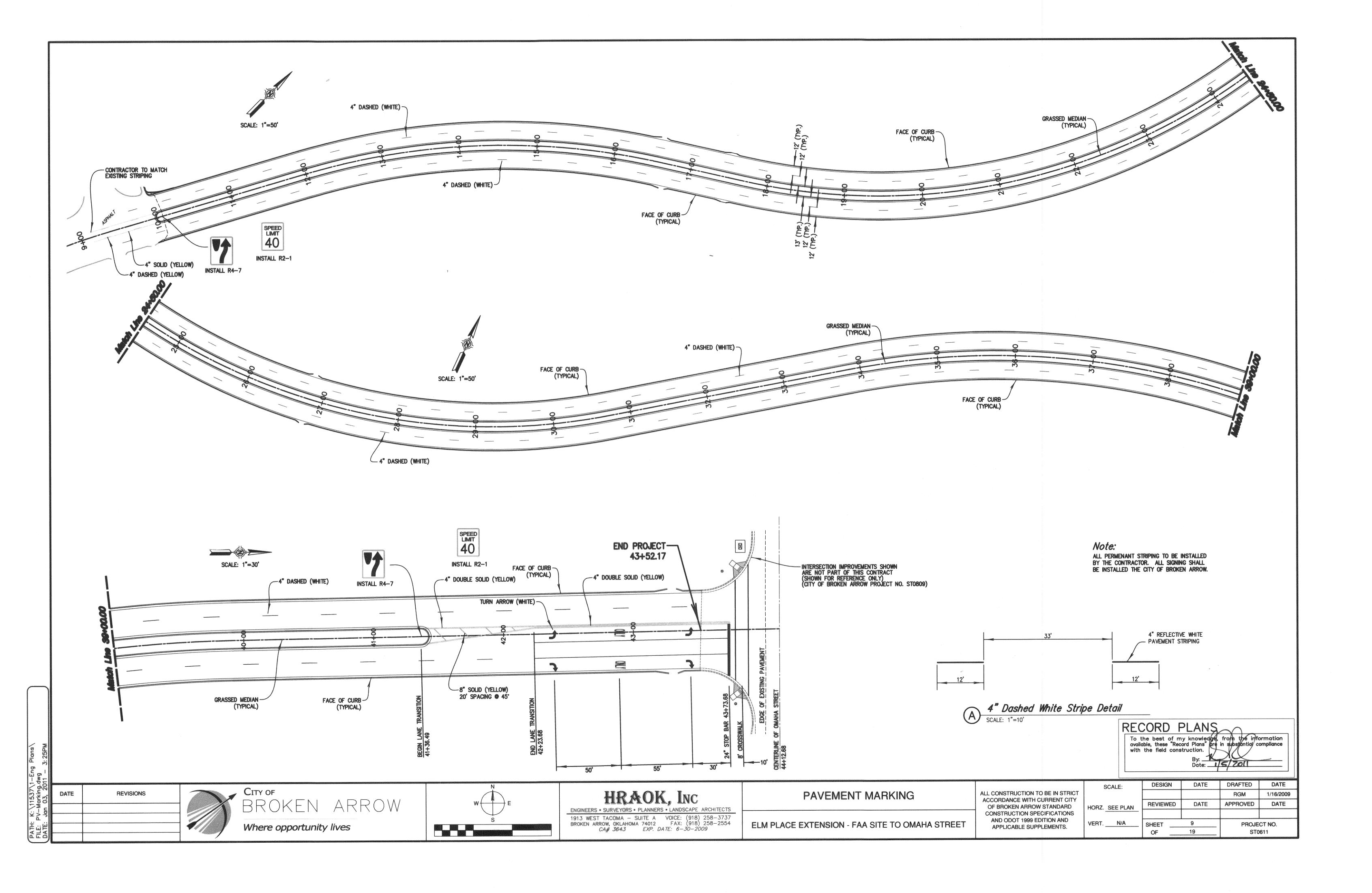


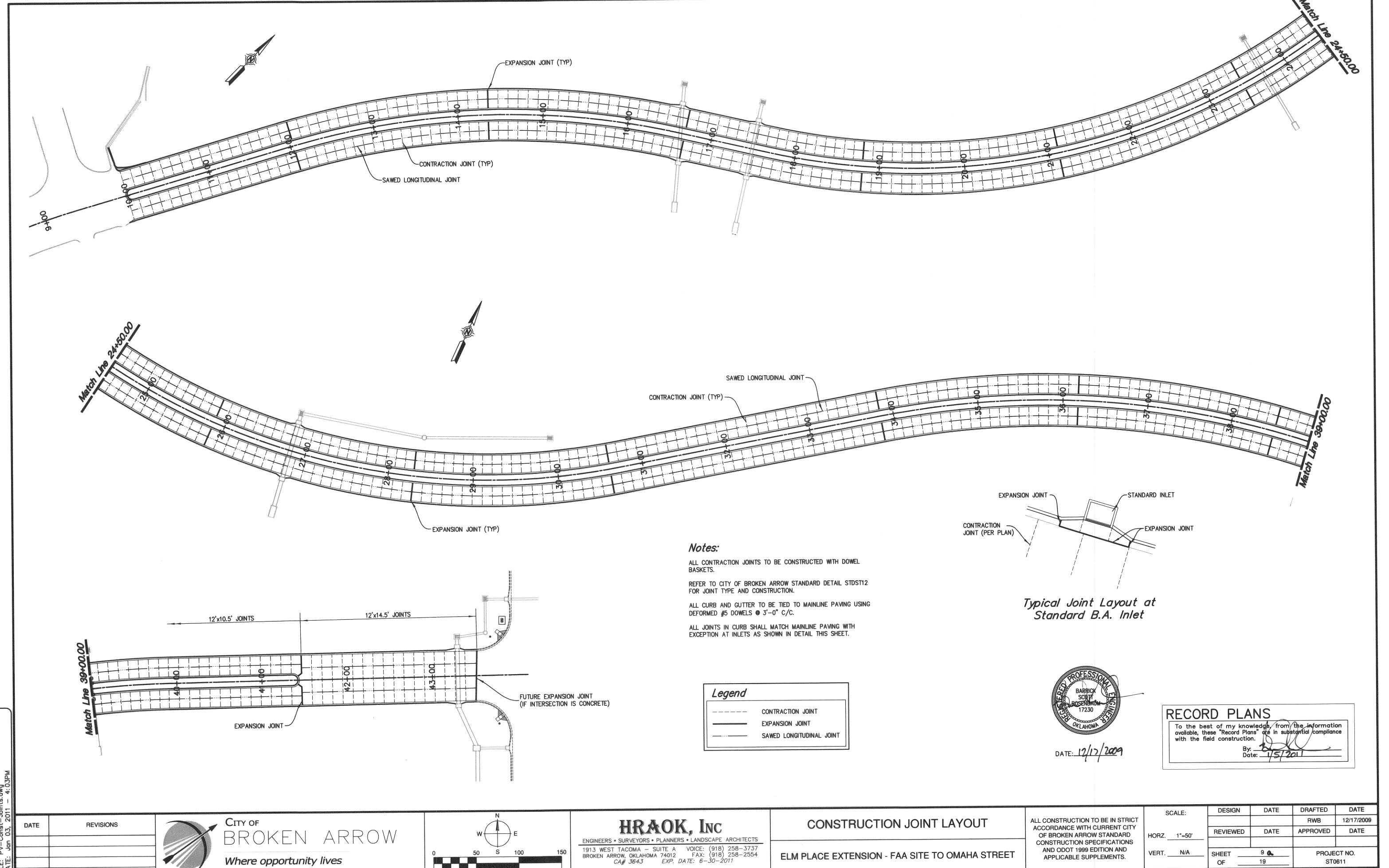






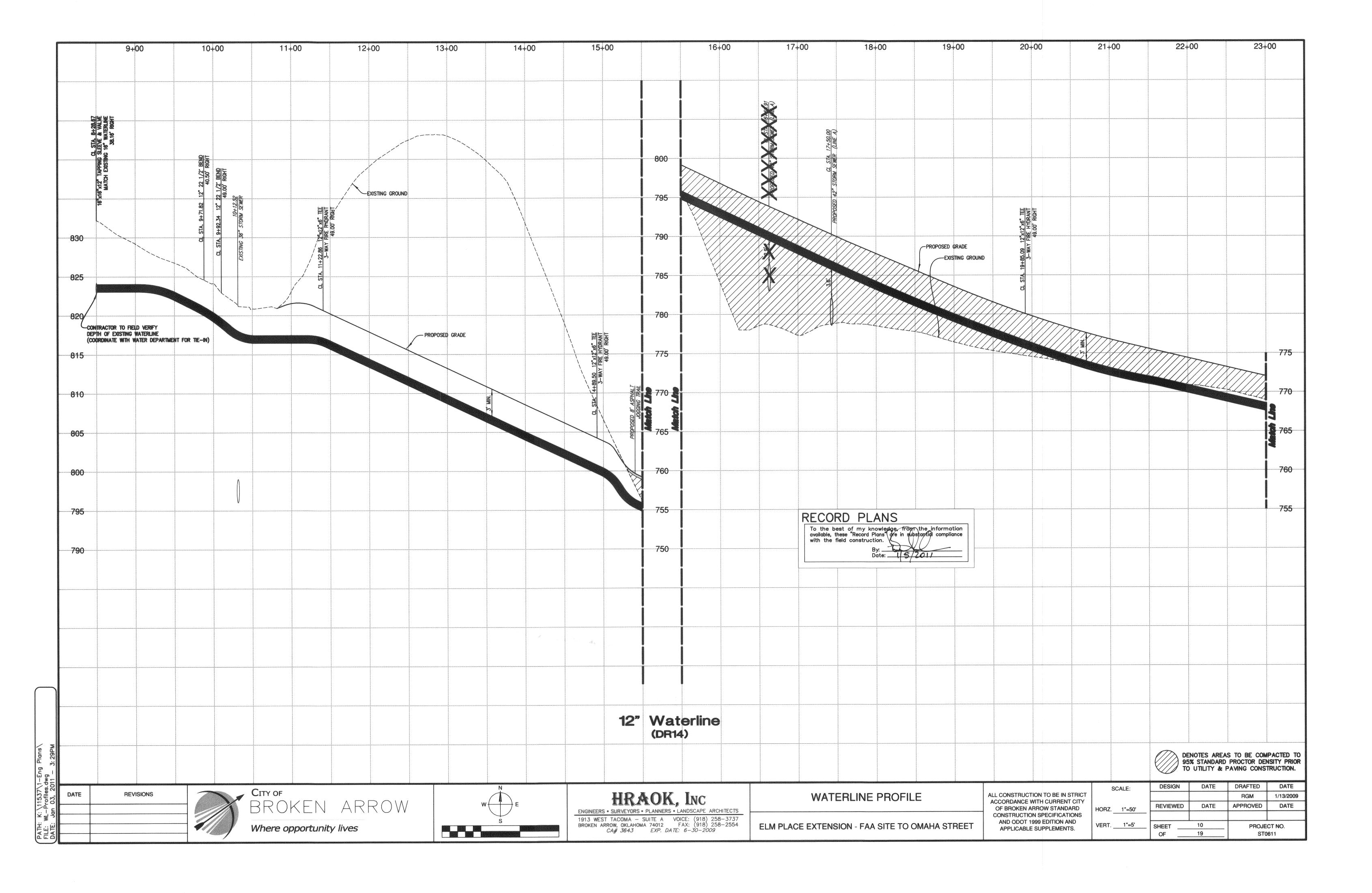


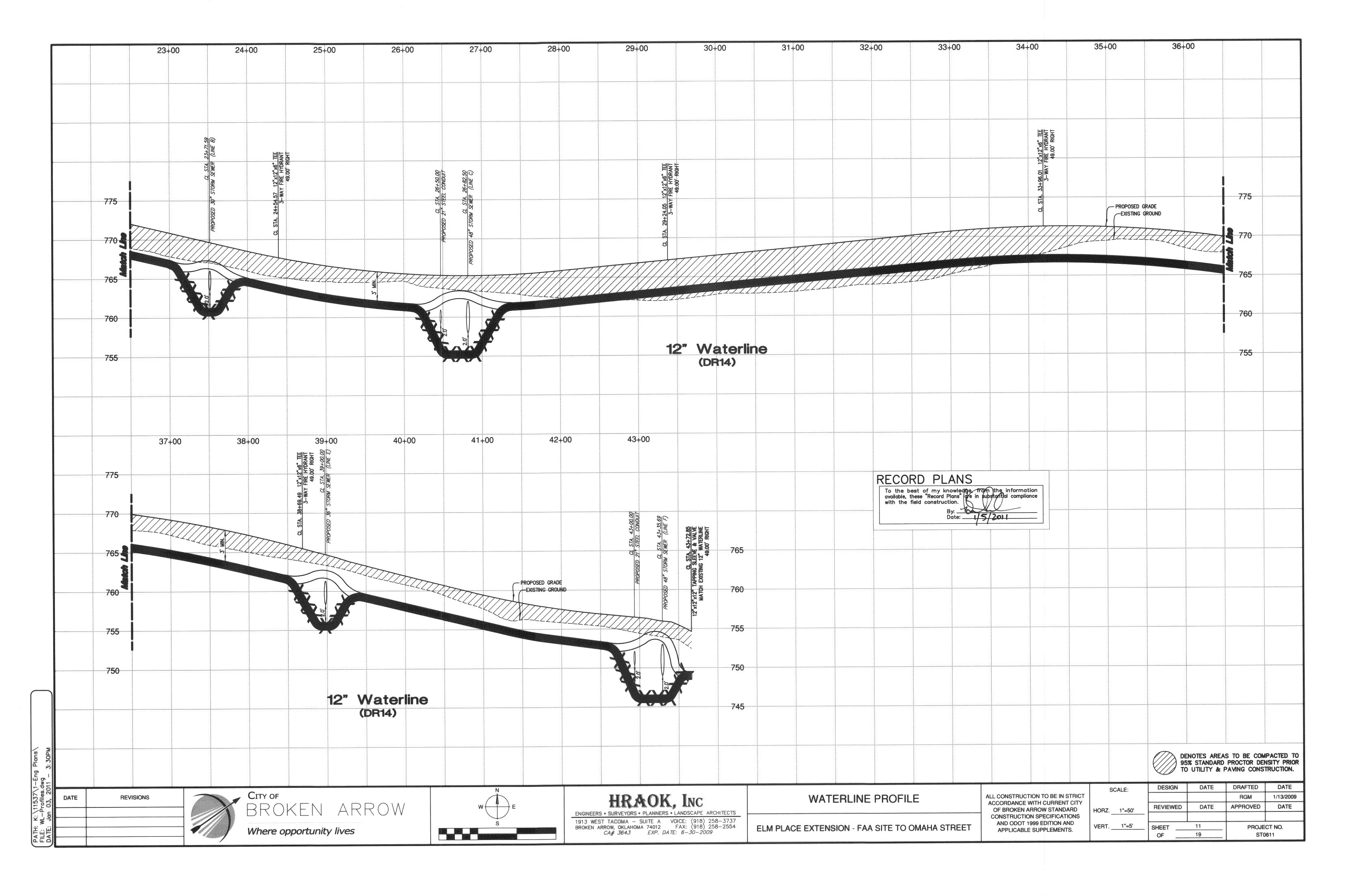




ST0611

OF





STORM WATER POLLUTION PREVENTION PLAN

U.UU WIILLAU	TO AN INTERSECTION WITH OMAHA STREET.
PROJECT DI WITH A RAIS	ESCRIPTION: GRADING, DRAINAGE, PAVING OF A 4-LANE DIVIDED ROADWAY ED MEDIAN INCLUDING AN ENCLOSED STORM SEWER SYSTEM (WHERE APPLICABLE).
NSTALL TEM PERFORM MA CONSTRUCT	SEQUENCE OF CONSTRUCTION: IPORARY EROSION CONTROL DEVICES AJOR GRADING OPERATIONS STORM SEWER SYSTEM
REMOVE TEM	VAY SECTION IPORARY EROSION CONTROL ANENT EROSION CONTROL
OTAL AREA	A TO BE DISTURBED: ESTIMATED AT 9 ACRES ±
NOTE: THIS	AREA IC TO BE ON OUR ATER AS 20 AV TO 5 AV2 TO 5 AVE
ROJECT.	AREA IS TO BE CALCULATED AS "R/W TO R/W" FOR THE EXTENTS OF THI INCLUDING ANY INCIDENTAL CONSTRUCTION.
ROJECT.	INCLUDING ANY INCIDENTAL CONSTRUCTION.
WEIGHTED R	INCLUDING ANY INCIDENTAL CONSTRUCTION. SUNOFF COEFFICIENT: NTIAL AREA (FUTURE) — 0.80 COMMERCIAL AREA (FUTURE)
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VEIGHTED R D.65 RESIDEN NOTE: THIS THIS VALUE BE BASE OF	INCLUDING ANY INCIDENTAL CONSTRUCTION. SUNOFF COEFFICIENT: NTIAL AREA (FUTURE) — 0.80 COMMERCIAL AREA (FUTURE) SHOULD BE DETERMINED BY THE HYDRAULIC DESIGNER FOR THE PROJECT SHOULD BE THE AVERAGE "C" FACTOR USED ON THE PROJECT. IT SHOULE
VEIGHTED R D.65 RESIDEN NOTE: THIS THIS VALUE BE BASE OF NAME OF R	INCLUDING ANY INCIDENTAL CONSTRUCTION. SUNOFF COEFFICIENT: NTIAL AREA (FUTURE) — 0.80 COMMERCIAL AREA (FUTURE) SHOULD BE DETERMINED BY THE HYDRAULIC DESIGNER FOR THE PROJECT SHOULD BE THE AVERAGE "C" FACTOR USED ON THE PROJECT. IT SHOULD ANTICIPATED FUTURE LAND USE.
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VEIGHTED R 0.65 RESIDEN 10TE: THIS 1E BASE OF 1OTE: THIS 1OTE	RUNOFF COEFFICIENT: NTIAL AREA (FUTURE) — 0.80 COMMERCIAL AREA (FUTURE) SHOULD BE DETERMINED BY THE HYDRAULIC DESIGNER FOR THE PROJECT SHOULD BE THE AVERAGE "C" FACTOR USED ON THE PROJECT. IT SHOULD ANTICIPATED FUTURE LAND USE. ECEIVING WATERS: UNNAMED TRIBUTARY TO ADAMS CREEK SHOULD DESCRIBE EACH NAMED CREEK, RIVER, OR BODY OF WATER WHICH G STORM WATER RUNOFF. SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE OR SITE MAR

SITE DESCRIPTION

SOIL STABILIZATION PRACTICES:

X TEMPORARY SEEDING X PERMANENT SODDING X MULCHING ...SOIL RETENTION BLANKET X PRESERVATION OF EXISTING VEGETATION OTHER:....

STRUCTURAL PRACTICES:

- X SILTATION SCREENS
- X TEMPORARY BALE BARRIERS
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER DITCHES
- DIVERSION DIKE AND DITCH COMBINATIONS
- ...PIPE SLOPE DRAINS
- X PAVED DITCH AND DITCH LINER PROTECTION
- X ENERGY DISSIPATING DEVICES
- X TEMPORARY SEDIMENT BASINS
- X TEMPORARY SEDIMENT FILTERS

OFFSITE VEHICLE TRACKING:

- X HAUL ROADS DAMPENED FOR DUST CONTROL
- X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- X EXCESS DIRT ON ROAD REMOVED DAILY
- X STABILIZED CONSTRUCTION ENTRANCE/EXIT

ADDITIONAL INFORMATION:

OTHER EROSION AND SEDIMENT CONTROLS:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH (AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON-SITE). POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS WASTE:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIAL IS REQUIRED THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS DEVELOPED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SUBSECTIONS OF THE 1999 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

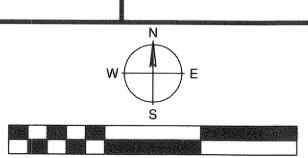
SECTION 220 TEMPORARY EROSION, SEDIMENTATION, AND STORMWATER POLLUTION PREVENTION AND CONTROL

REFER TO SHEET 13 FOR PLACEMENT OF STRUCTURAL CONTROLS

RECORD PLANS

available, these "Record Plans with the field constructio

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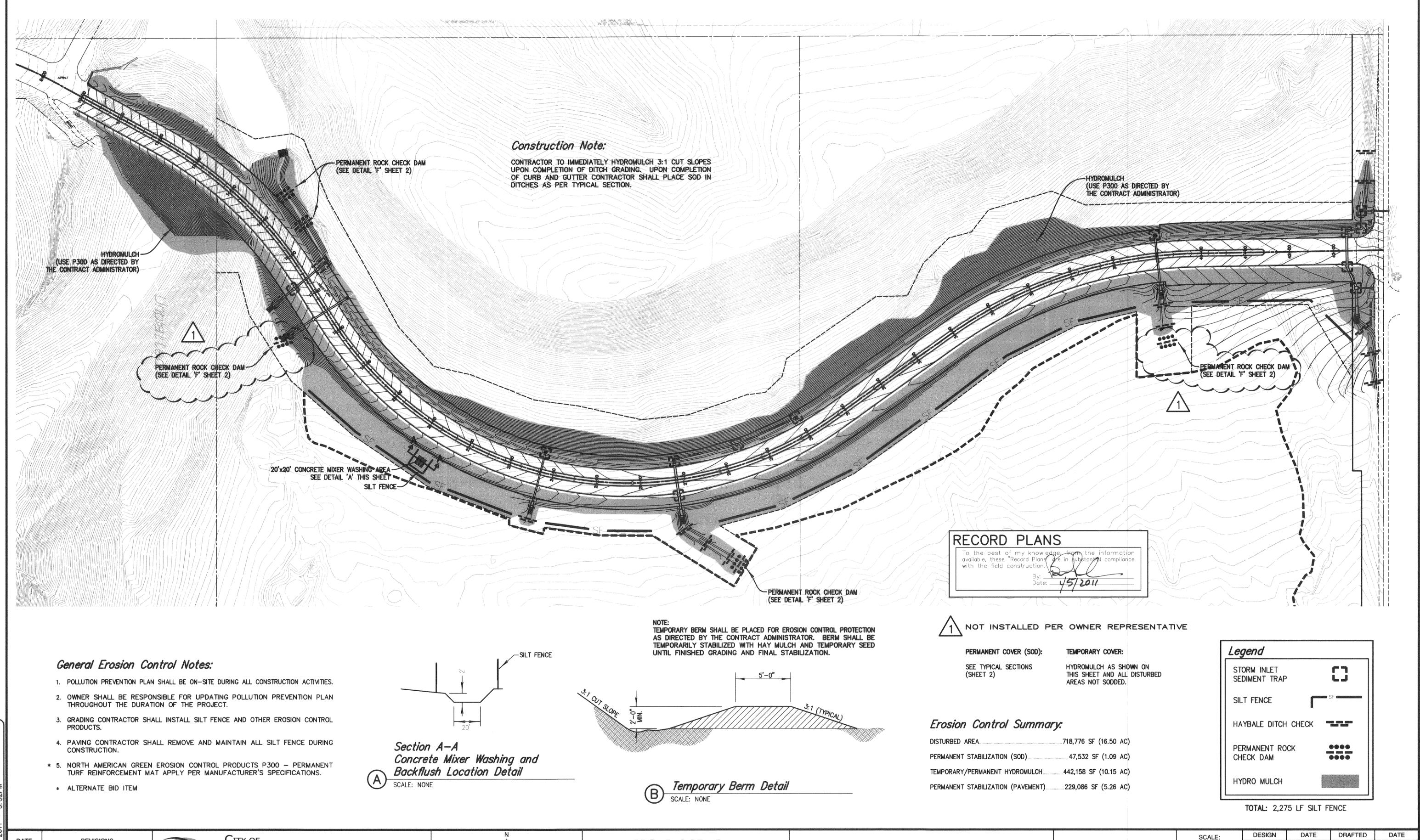
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ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS 1913 WEST TACOMA - SUITE A VOICE: (918) 258-3737 BROKEN ARROW, OKLAHOMA 74012 FAX: (918) 258-2554 CA# 3643 EXP. DATE: 6-30-2011 STORM WATER POLLUTION PREVENTION PLAN

ELM PLACE EXTENSION - FAA SITE TO OMAHA STREET

ALL CONSTRUCTION TO BE IN STRICT
ACCORDANCE WITH CURRENT CITY
OF BROKEN ARROW STANDARD
CONSTRUCTION SPECIFICATIONS
AND ODOT 1999 EDITION AND
APPLICABLE SUPPLEMENTS.

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1913 WEST TACOMA — SUITE A VOICE: (918) 258-3737 BROKEN ARROW, OKLAHOMA 74012 FAX: (918) 258-2554 CA# 3643 EXP. DATE: 6-30-2011 **EROSION CONTROL PLAN**

ELM PLACE EXTENSION - FAA SITE TO OMAHA STREET

ALL CONSTRUCTION TO BE IN STRICT

ACCORDANCE WITH CURRENT CITY

OF BROKEN ARROW STANDARD

CONSTRUCTION SPECIFICATIONS

AND ODOT 1999 EDITION AND

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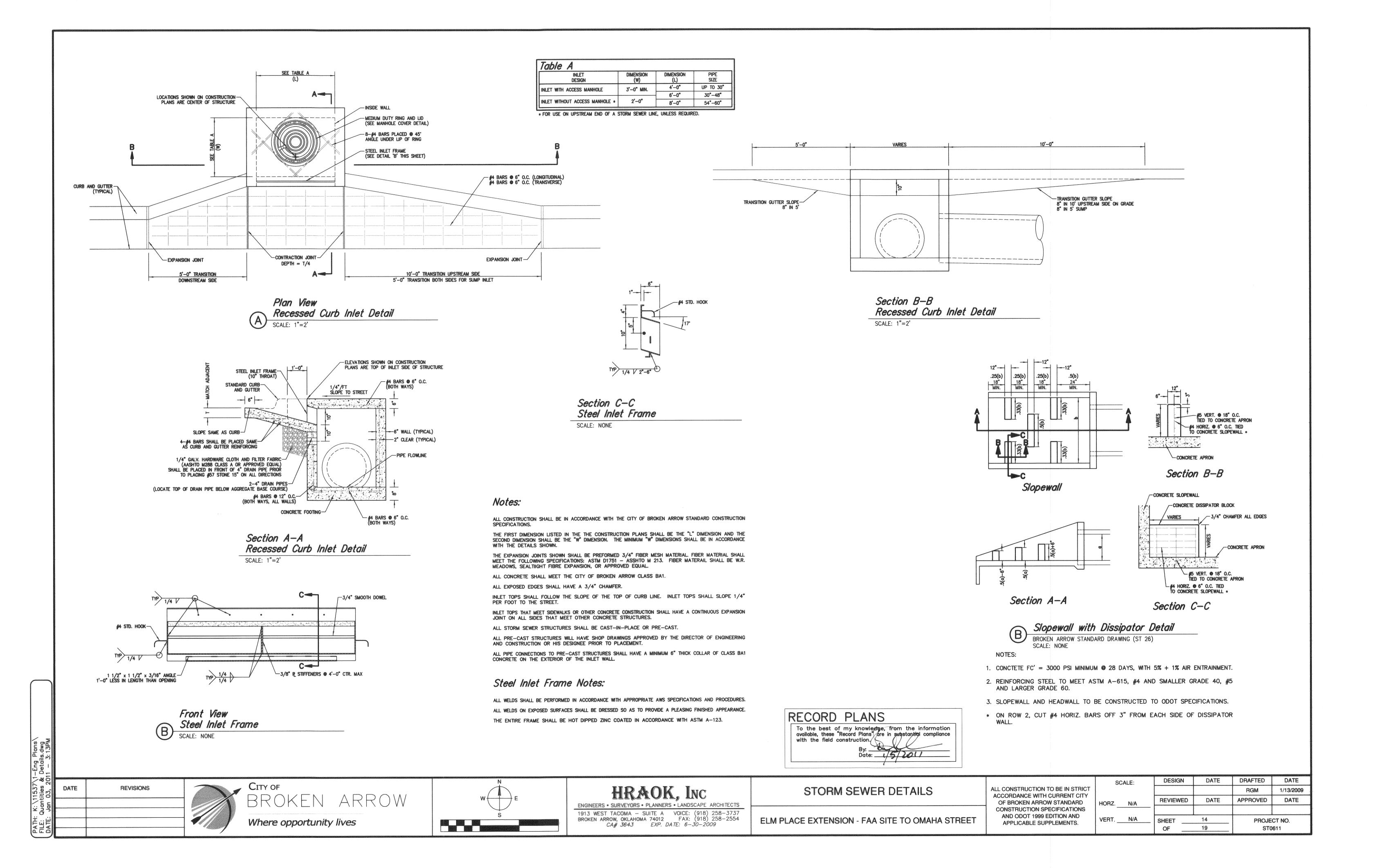
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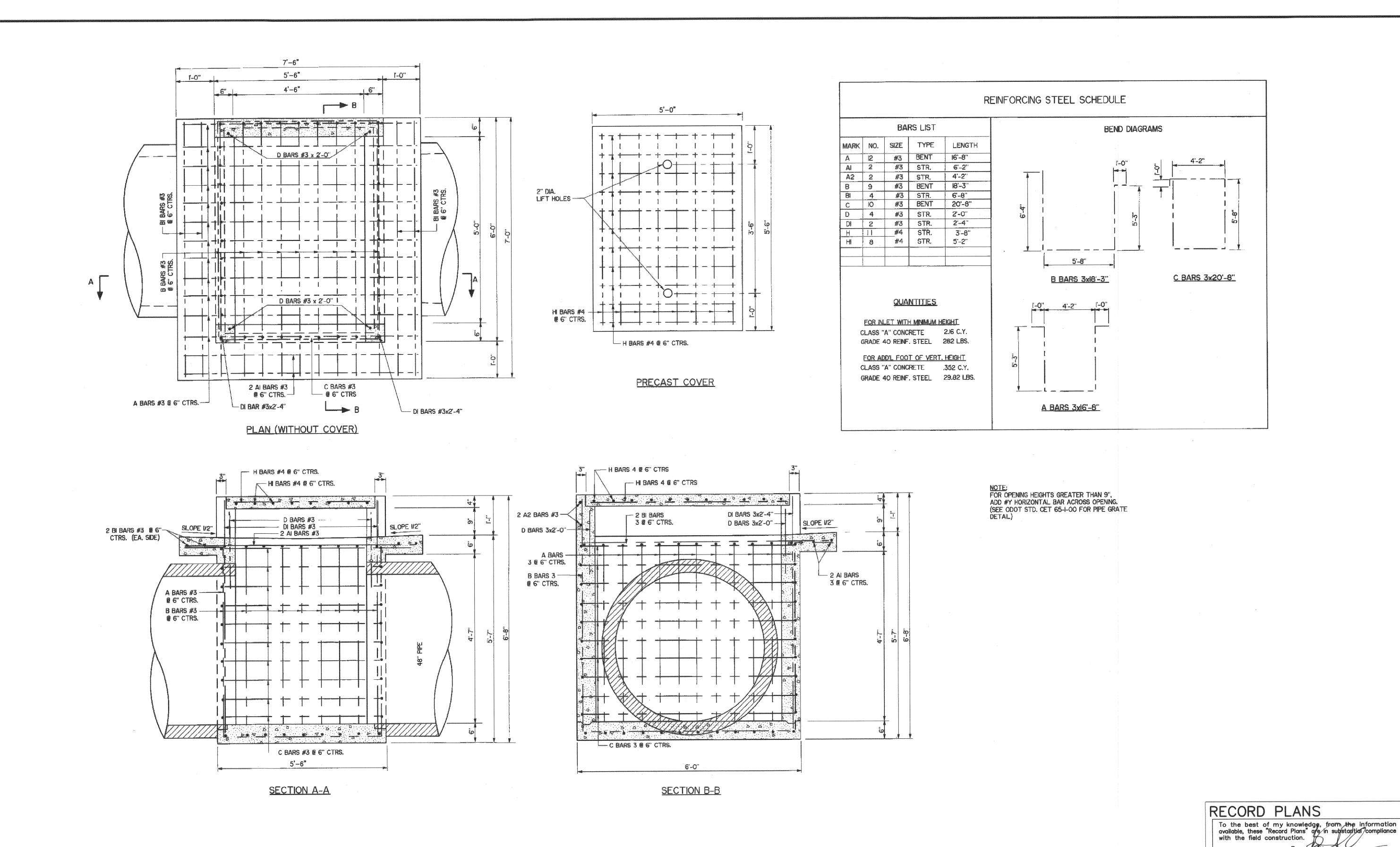
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3-WAY DROP INLET DETAILS

ELM PLACE EXTENSION - FAA SITE TO OMAHA STREET

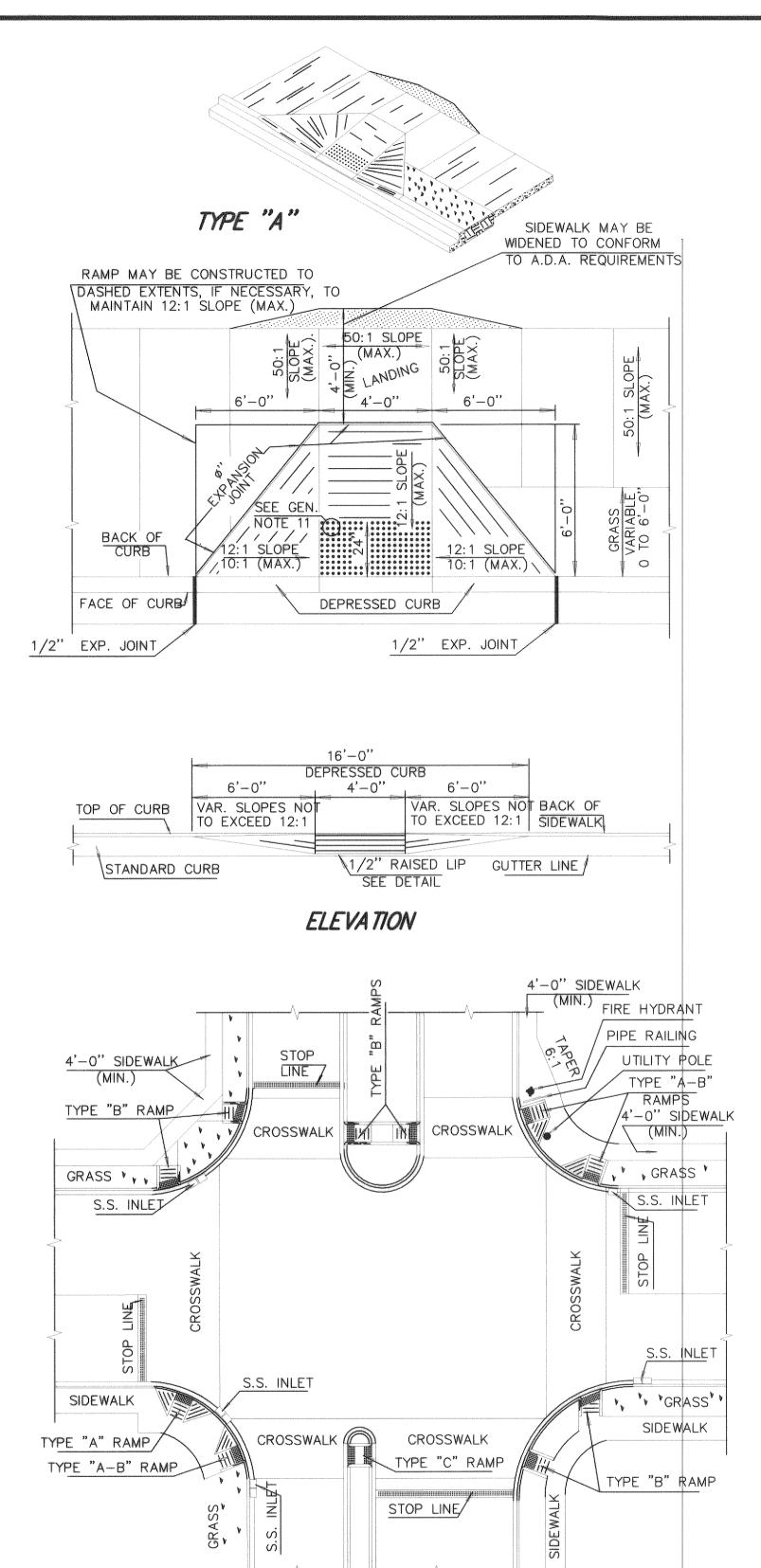
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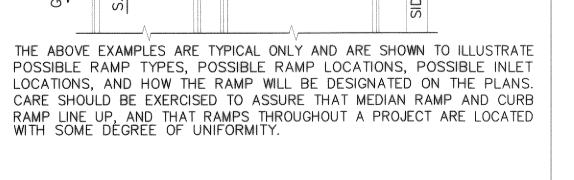
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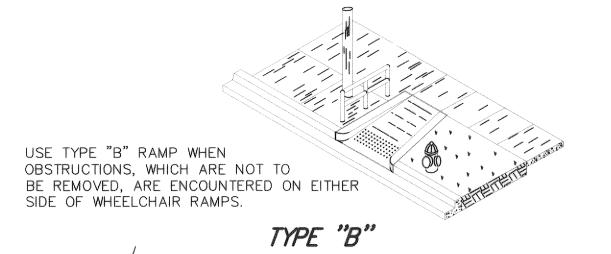
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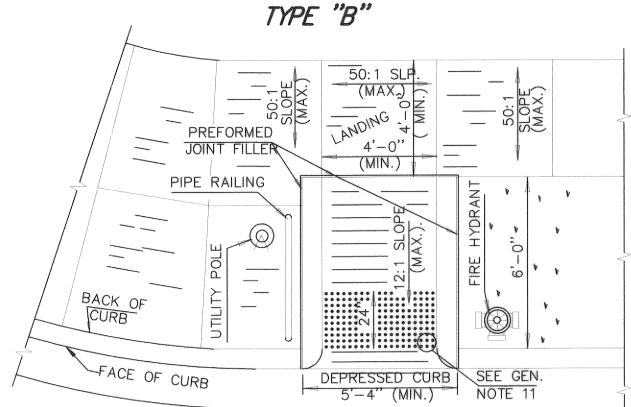
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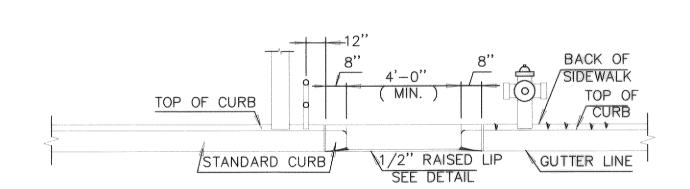
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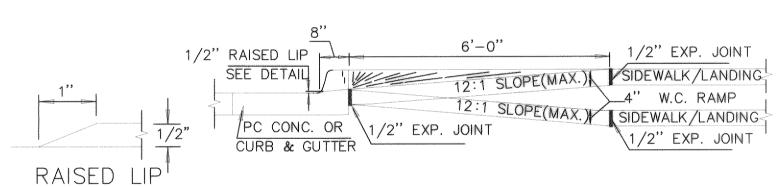




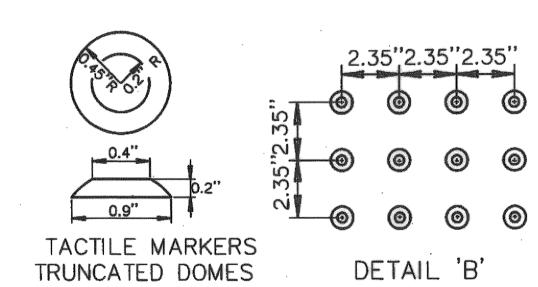




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WHEELCHAIR RAMP PROFILES

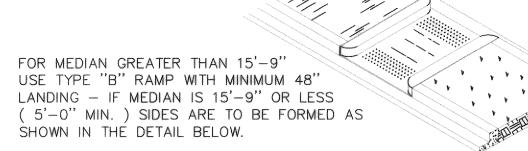


TACTILE WARNING DETAILS INSTALLATION NOTES

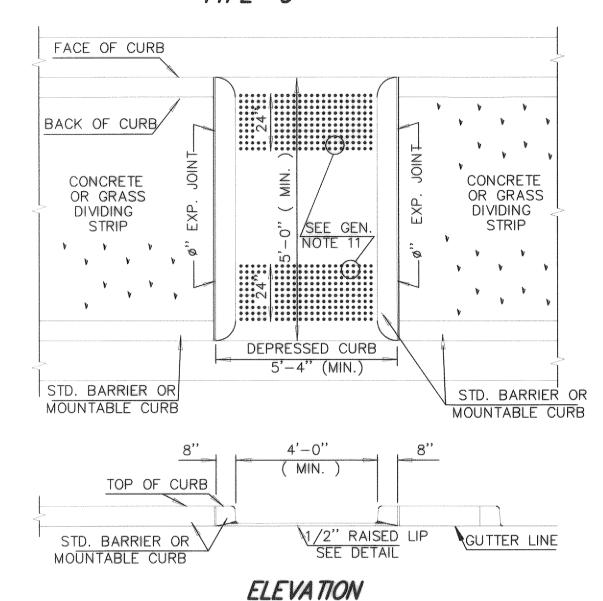
THE TRUNCATED DOME SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING WALKING SURFACES.

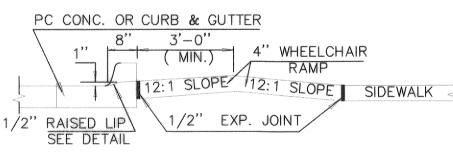
THE TRUNCATED DOMES SHALL BE PRE-CAST CONCRETE PANELS WITH A NOMINAL THICKNESS OF 7/8 INCH TO 2 INCHES, AND A MINIMUM SIZE OF 12" X 16". THEY SHALL BE CONSTRUCTED WITH A MINIMUM OF 4000 PSI CONCRETE. THEY SHALL BE YELLOW IN COLOR AND MEET ALL ADA REQUIREMENTS FOR COLOR CONTRAST AND DIMENSIONS.

RETROFIT INSTALLATIONS WILL NOT REQUIRE EXISTING DEPRESSED CURBING TO BE REPLACED. A NOMINAL 6 TO 8 INCH SETBACK FROM FACE OF CURB SHALL BE ENFORCED FOR NEAR EDGE OF TACTILE DOMES.

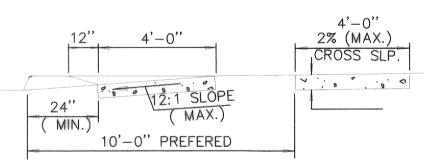


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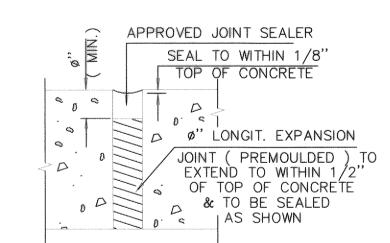




WHEELCHAIR RAMP PROFILES



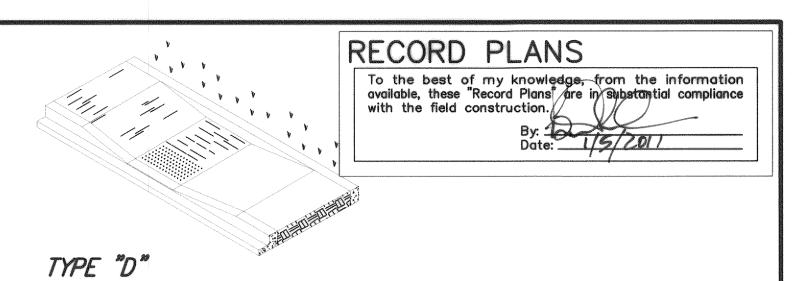
AT DRIVEWAY LOCATIONS, THE NORMAL 4'-0" SIDEWALK MUST BE SET BACK FROM CURB, OR A WIDER SIDEWALK (5'-0" TYP.) USED TO ASSURE WHEELCHAIR PASSAGE. WHEELCHAIR PASSAGE MUST BE AVAILABLE ON EXTENDED LENGTHS OF SIDEWALKS AT INTERVALS LESS THAN 200 FEET.

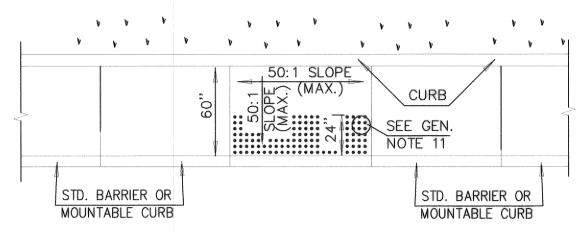


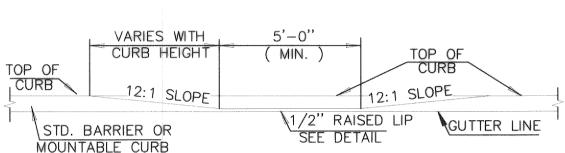
1/2" EXPANSION JOINT

JOINT FILLER SHALL MEET THE REQUIREMENTS OF ODOT SECTIONS 701.08(b) AND 701.08(e) OF THE 1999 ENGLISH STANDARD SPECIFICATIONS.

JOINT FILLER SHALL BE USED BETWEEN SIDEWALK AND CURBS, WHEELCHAIR RAMPS, DRIVEWAYS, STREETS, RETAINING WALLS, ETC.



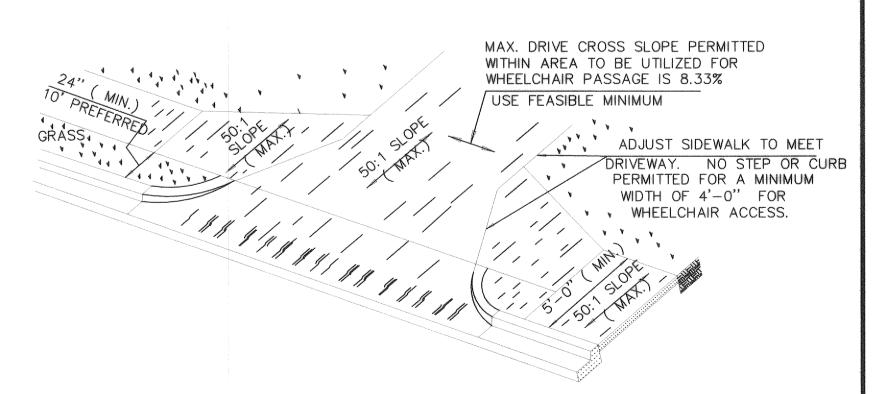




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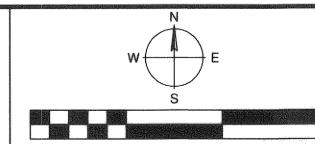
GENERAL NOTES

- 1. THERE WILL BE NO DEDUCTION OF PAYMENT FOR CONCRETE CURB & GUTTER AND/OR INTEGRAL CURB FOR THE LENGTH OF THE DEPRESSED CURB.
- 2. RAMP DIMENSIONS SHOWN ARE BASED ON A CURB HEIGHT OF SIX INCHES. THE DIMENSIONS SHOULD BE ADJUSTED FOR OTHER CURB HEIGHTS. THE MAXIMUM PERMISSIBLE SLOPES OF THE WHEELCHAIR RAMPS IS 8.33% (12:1). RAMP SLOPE MAY BE 10:1 (MAX.) ALONG FACE OF TAPERED CURB.
- 3. TRANSVERSE GROOVING SHALL BE REQUIRED ON RAMPS, AS SHOWN ON THIS SHEET.
- 4. DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH THE RAMPS.
- 5. THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP WITH A 50:1 SLOPE (MAX.), SEE NOTE NO. 10.
- 6. WHEELCHAIR RAMPS SHOULD BE LOCATED SO THAT THE RAMP WILL BE ON THE TRAFFIC APPROACH SIDE OF ANY OBSTACLE.
- 7. WHEELCHAIR RAMPS SHOULD BE BUILT AS SHOWN ON THE PLANS OR AS ON THE PLANS. IF A RAMP IS TO BE CONSTRUCTED AS A COMBINATION OF TWO TYPES, (ONE SIDE TYPE A AND ONE SIDE TYPE B) THE RAMP SHALL BE DESIGNATED AS TYPE A—B.
- 8. PIPE RAILING CONSTRUCTION DETAILS, WHEN REQUIRED AT TYPE B WHEEL CHAIR RAMPS, WILL BE SHOWN ON THE PLANS.
- 9. EXCAVATION, BACKFILL, EXPANSION JOINT MATERIAL, SEALERS, AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE SIDEWALK.
- 10. ALL FEATURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS AND CROSSWALK MARKINGS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES (ADAAG). WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THE ADAAG, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURE(S). THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE ADAAG WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADAAG, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 11. TACTILE WARNING DEVICES ARE REQUIRED, AND SHALL BE ADA SOLUTIONS, INC
 (OR EQUAL) BRICK RED, AND CAST IN PLACE.



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1913 WEST TACOMA — SUITE A VOICE: (918) 258-3737

BROKEN ARROW, OKLAHOMA 74012 FAX: (918) 258-2554

CA# 3643 EXP. DATE: 6-30-2009

ADA RAMP DETAILS

ELM PLACE EXTENSION - FAA SITE TO OMAHA STREET

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