

GENERAL SCOPE OF WORK: THE EAST PARKING LOT IS AN EXISTING PARKING LOT SITE THAT WILL BE RE-GRADED TO SLOPE DRAINAGE GENERALLY TO THE WEST SIDE OF WEST SIDE OF THE PARKING LOT, WITH A NEW DRAINAGE SWALE ON THE EAST SIDE, CONCRETE PAVING PLACED, PARKING LOT STRIPED, POST & CABLE FENCING ON EAST AND WEST SIDES AND LIGHTING. A PORT-A-POTTY AREA WILL BE PROVIDED NEAR THE ENTRANCE TO THE TRAIL. A NEW DRIVEWAY ENTRANCE WILL BE CONSTRUCTED ON THE WEST SIDE OF THE PARKING LOT OFF E. 61ST STREET. A NEW DRAINAGE FLUME WILL BE CONSTRUCTED TO RECEIVE STORMWATER OFF THE PARKING LOT.

GENERAL NOTE: THIS PROJECT IS CONTRACTED BY THE CITY OF TULSA (DESIGNATED AS OWNER) ON BEHALF AND FOR THE BENEFIT OF RIVER PARKS AUTHORITY WHO OPERATES AND MAINTAINS THE TURKEY MOUNTAIN URBAN WILDLIFE AREA.

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



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CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

TURKEY MOUNTAIN PARKING LOTS EAST PL

SITE PLAN

SCALE	1"=50'	DRAWING NUMBER	G-002
DESIGNED BY	WBS	FILE NAME	DA-23-753
CHECKED BY	KH	SHEET NUMBER	2
DATE			
APPROVED			

**GENERAL CONSTRUCTION NOTES**

1. **DRAWING SCALE.** ALL SCALES ON THE DRAWINGS HAVE BEEN PREPARED FOR REPRODUCTION ON 11in. x 17in. PAPER. SCALING IS NOT RECOMMENDED ON THE ALTERNATE SIZED ENLARGED DRAWINGS. WHERE APPLICABLE BAR SCALES SHALL SUPERCEDE USE OF NUMERIC SCALE REFERENCES. PDF COPIES OF DRAWINGS ARE AVAILABLE TO BIDDERS/SELECTED CONTRACTOR.
2. **EXISTING UTILITIES.** IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL STRUCTURES, UNDERGROUND PIPELINES, ELECTRIC AND TELEPHONE OR FIBER OPTIC CONDUITS, EITHER SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION, AND OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO THESE FACILITIES. ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING SHALL BE REPAIRED/REPLACED AT THE CONTRACTORS EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN KIND/UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL NOTIFY OKIE ONE-CALL (1-800-522-6543) AT LEAST 48 HRS PRIOR TO ANY EXCAVATION. IT IS SPECIFICALLY NOTED THAT THE SOUTH PARKING LOT HAS A HIGH VOLTAGE POWER LINE RUNNING THE LENGTH OF THE PARKING LOT WITH ONE POWER POLE IN THE CENTER OF THE PARKING LOT. THIS UTILITY SHALL BE PROTECTED FROM ANY CONSTRUCTION INTERFERENCE.
3. **LINES AND GRADES.** ALL WORK SHALL BE PERFORMED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. ALL CONSTRUCTION SURVEY, LAYOUT, AND MEASUREMENT WORK SHALL BE PERFORMED BY THE CONTRACTOR AS A PART OF THE WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL VERIFY EXISTING AND FINISHED GRADES AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLANS PRIOR TO CONSTRUCTION.
4. **DAMAGE TO PUBLIC OR PRIVATE PROPERTY.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC AND PRIVATE PROPERTY AFFECTED BY HIS CONSTRUCTION OPERATIONS. RESTORATION OF ALL DAMAGED PROPERTY, BOTH PUBLIC AND PRIVATE, TO ITS ORIGINAL CONDITION SHALL BE PERFORMED BY AND AT THE EXPENSE OF THE CONTRACTOR.
5. **PROTECTION OF OPEN EXCAVATION AND OBSTRUCTIONS.** ALL OPEN TRENCHES AND OTHER EXCAVATIONS SHALL BE PROTECTED WITH SUITABLE BARRIERS, SIGNS, AND LIGHTS IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE REGULATIONS. OBSTRUCTIONS SUCH AS MATERIAL PILES AND EQUIPMENT, SHALL BE PROTECTED WITH SIMILAR SIGNS AND LIGHTS. ALL BARRICADES, SIGNS, LIGHTS, AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN A MANNER ACCEPTABLE TO THE ENGINEER.
6. **PROJECT RESTORATION.** THE CONTRACTOR SHALL REMOVE AND REPLACE OR REPAIR IN LIKE KIND, TO THE SATISFACTION OF THE OWNER, OF ALL OBSTRUCTIONS AFFECTED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANDSCAPE SPRINKLERS AND LANDSCAPING OR OTHER PHYSICAL FEATURES SUCH AS LIGHTS, AND PLANTINGS, GRAVEL DRIVEWAYS, FENCES, RETAINING WALLS, SIGNS, OUT-BUILDINGS, AND OTHER OBSTRUCTIONS CAUSED BY THE PROSECUTION OF THE WORK. REPAIR, REPLACEMENT, OR RESTORATION SHALL CONFORM WITH ALL APPROPRIATE AND APPLICABLE CODES. THE WORK ALSO INCLUDES SALVAGING OF TOPSOIL FOR WHICH NO SEPARATE MEASUREMENT FOR PAYMENT WILL BE MADE. ALL CLEARING AND GRUBBING MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. **DUST AND DEBRIS CONTROL.** THE CONTRACTOR SHALL MINIMIZE DUST CONDITIONS AT THE WORK SITE. THE SITE SHALL BE WATERED DURING CONSTRUCTION AS REQUIRED TO MINIMIZE DUST. THE CONTRACTOR SHALL INSPECT THE WORK SITE AND REMOVE ALL TRASH AND CONSTRUCTION DEBRIS, ON A DAILY BASIS, LEAVING THE AREA IN A NEAT, ORDERLY, AND SAFE CONDITION.
8. **SOIL BORINGS.** SOIL BORINGS HAVE BEEN NOT BEEN PERFORMED IN ANY OF THE AREAS WHERE EXCAVATION IS ANTICIPATED ON THE PROJECT. A COPY OF THE NRCS WEB SOIL SURVEY FOR THIS PROJECT SITE IS AVAILABLE TO THE BIDDERS/CONTRACTOR. THE BIDDERS/CONTRACTOR MAY PERFORM ANY ADDITIONAL BORINGS OR TESTING PRIOR TO BIDDING OR DURING CONSTRUCTION FOR PURPOSES OF EASE OF CONSTRUCTION. NO CHANGED CONDITIONS CLAIM WILL BE PERMITTED ONCE CONSTRUCTION BEGINS DUE TO SUB-SURFACE CONDITIONS.
9. **ROCK EXCAVATION.** NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL EFFORTS REQUIRED FOR THE PREPARATION AND REMOVAL OF ROCK, BOULDERS, BURIED CONCRETE, OR CONSTRUCTION DEMOLITION ENCOUNTERED DURING EXCAVATIONS AS REQUIRED TO COMPLETE THE PROJECT.
10. **EXCESS MATERIAL DISPOSAL.** SPOIL OF EXCESS MATERIAL FROM EXCAVATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.

**GENERAL CONSTRUCTION NOTES-CONTINUED**

11. **BLASTING.** BLASTING WILL NOT BE ALLOWED ON THIS PROJECT.
12. **EROSION CONTROL STANDARDS.** STANDARDS FOR EROSION CONTROL ARE AVAILABLE IN THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) AND ANY STANDARD DETAILS, SUPPLEMENTED BY THE CITY OF TULSA STANDARDS OR, ODOT STANDARDS AVAILABLE AT THE ODOT WEB SITE, WWW.OKLADOT.STATE.OK.US/ROADWAY/STANDARDS.HTM. THE CONTRACTOR SHALL CONFORM TO ALL OF THE SWP3 REQUIREMENTS, INCLUDING NECESSARY REPORTING, AND COMPLY WITH ALL CONDITIONS IN THE OKR10 CONSTRUCTION PERMIT FROM ODEQ.
13. **OWNER INSPECTION RIGHTS.** ANY CONSTRUCTION PERFORMED WITHOUT THE KNOWLEDGE OF THE OWNER'S ON SITE REPRESENTATIVE IS LIABLE FOR REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
14. **QUESTIONS DURING CONSTRUCTION.** ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF THE PLANS SHALL BE RAISED PRIOR TO THE COMMENCEMENT OF THE WORK IN QUESTION. THE ENGINEER WILL PROVIDE TECHNICAL CLARIFICATIONS DURING CONSTRUCTION IF NEEDED, BUT THIS WILL NOT INVOKE A CHANGE IN CONTRACT PRICE OR SCHEDULE.
15. **VARIATIONS FROM PLANS.** THE ENGINEER AND THE OWNER MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS USING A FIELD CONSTRUCTION CLARIFICATION (FCC) FORM OR A REQUEST FOR INFORMATION (RFI) FORM AND TRANSMITTED TO THE ENGINEER.
16. **CONTRACTORS OBLIGATION.** ANY INSPECTION BY THE OWNER OR THE OWNER'S REPRESENTATIVE, SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
17. **DEFECTIVE WORKMANSHIP.** ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THESE PLANS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
18. **SURVEY CONTROL.** CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ESTABLISHED CONTROL POINTS. RESETING WILL BE DONE AT CONTRACTORS EXPENSE. THERE IS A DEFINED BENCH MARK FOR THIS PROJECT. ALL SURVEYING TO OBTAIN THE GRADES SHOWN ON THE DRAWINGS IS THE RESPONSIBILITY OF THE CONTRACTOR.
19. **OFF SITE REPAIRS.** PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK, THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-PROJECT) ROADWAYS USED OR DAMAGED DURING THE COURSE OF CONSTRUCTION.
20. **ADDITIONAL TEMPORARY EASEMENT.** CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS FOR ACCESS LOCATIONS TO EASEMENTS AND ANY ADDITIONAL WORKING AREAS NOT SPECIFICALLY PROVIDED FOR.
21. **MANHOLES.** CONTRACTOR TO ADJUST ALL MANHOLES TO GRADE TO ACCEPTANCE OF ENGINEER. (NOT APPLICABLE)
22. IN ANY LOCATION IN THE CONTRACT DOCUMENTS (PLANS OR SPECIFICATIONS) REFERENCES TO "ENGINEER" GENERALLY REFER TO THE CIVIL DESIGN ENGINEER, HISINC, L.L.C. WHO MAY ASSIST THE ARCHITECT OR THE CITY OF TULSA WITH THE CONSTRUCTION ENGINEERING RESPONSIBILITIES, AND MAY ASSIST THE CITY OF TULSA AND/OR RIVER PARKS AUTHORITY WITH BIDDING AND CONSTRUCTION ENGINEERING SERVICES AND ACTING AS THE RESIDENT PROJECT REPRESENTATIVE IN CONJUNCTION WITH CITY OF TULSA AND/OR RIVER PARKS AUTHORITY'S SUPERINTENDENT. THE CONSTRUCTION ENGINEERING SERVICES WILL INCLUDE PROVIDING BIDDING SERVICES FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, COORDINATION OF ADVERTISING, COORDINATION OF MANDATORY PRE-BID CONFERENCE, RECEIPT AND RESPONSE TO BIDDER'S QUESTIONS THROUGH ISSUANCE OF ADDENDUM, ASSISTANCE IN RECEIPT OF PROPOSALS, REVIEW OF PROPOSALS FOR CONFORMANCE WITH THE BID DOCUMENTS, REFERENCE CONSULTATIONS, ETC. THE CONSTRUCTION ENGINEERING SERVICES WILL PROVIDE CONTRACT ADMINISTRATION SERVICES FOR THE PROJECT, INCLUDING, BUT NOT LIMITED TO, COORDINATION OF PRE-CONSTRUCTION MEETING, MONTHLY PAY ESTIMATE MEETINGS, MONTHLY PROGRESS MEETINGS, PERIODIC OBSERVATIONS OF CONSTRUCTION ACTIVITIES, AND REVIEW OF PROJECT SCHEDULE, ETC.
23. TEMPORARY CONSTRUCTION ACCESS FROM S. 61 W. AVE. TO THE PROJECT AREAS (NORTH AND SOUTH PARKING LOT SITES) AND ANY REQUIRED STAGING AND MATERIAL STORAGE AREAS WILL BE COORDINATED WITH THE RIVER PARKS AUTHORITY SUPERINTENDENT DURING THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL PROVIDE A PROPOSED PLAN OF TEMPORARY ACCESS AND DESIRED STAGING AND MATERIAL STORAGE AREAS AND THOSE PLANS SHALL BE SUBMITTED DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND CONSIDERATION.

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**CITY OF TULSA CAPITAL IMPROVEMENT PROJECT**

 **Hydropower International Services**  
Inter-National Consultancy, L.L.C.

**TURKEY MOUNTAIN PARKING WEST AND EAST PARKING LOTS**

**CIVIL CONSTRUCTION NOTES SHEET 1**

SCALE	N/A	DRAWING NUMBER	
DRAWN	JM	G-003	
CHECKED	WBS		
SUBMITTED	WBS	FILE NAME	DS-23-753
APPROVED	WBS	SHEET NUMBER	3



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REV	DESCRIPTION	DATE	BY	CHKD	APPROVED

**PROTECTION OF WETLANDS AND ARCHEOLOGICAL SITES NOTES:**

THE CONTRACTOR SHALL ORGANIZE HIS PROJECT SITE, EXCAVATION, MATERIAL STORAGE, ACCESS ROUTES AND TRAILS, AND OFFSITE FACILITIES SO AS TO MINIMIZE EFFECT UPON AND DISTURBANCE TO ANY SUCH SITES. WHILE THERE ARE NO DESIGNATED WETLAND AREAS ON EITHER LOCATON, THIS IS AN URBAN WILDLIFE AREA AND THE INTENT IS TO AVOID ANY DAMAGE TO THE EXISTING NATURAL ENVIRONMENT OTHER THAN THE CONSTRUCTION OF THE PARKING LOTS.

OFFSITE FACILITIES (WHICH INCLUDE, BUT ARE NOT RESTRICTED TO, PLANT SITES, BORROW PITS, WASTE AREAS, HAUL ROADS, STORAGE SITES, PARKING AREAS, AND SIMILAR AREAS ASSOCIATED WITH HIS OPERATIONS) SHALL NOT BE CONSTRUCTED OR LOCATED IN AREAS DESIGNATED AS WETLANDS BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) WITHOUT WRITTEN APPROVAL FROM THE USACE. THE CONTRACTOR SHALL CONTACT THE REGULATORY BRANCH OF THE USACE AT 918-669-7400 FOR A DETERMINATION OF WETLANDS AND APPROVAL OF ANY INTENDED LOCATIONS FOR OFFSITE FACILITIES. IF SUCH OPERATIONS IN WETLANDS ARE REQUIRED, THE CONTRACTOR SHALL PRESENT HIS ENTIRE PLAN FOR SUCH WORK AND SITE RESTORATION TO THE PROJECT ENGINEER AND, IF REQUIRED, TO USACE FOR APPROVAL. A COPY OF THE APPROVAL SHALL BE FORWARDED TO THE PROJECT ENGINEER PRIOR TO THE BEGINNING OF OFFSITE EXCAVATION. THE CONTRACTOR IS TO ADHERE TO THE REQUIREMENTS OF PERMITS WHICH ARE INCLUDED AS A PART OF THE CONTRACT.

THE PROPOSED PROJECT SITE HAS NOT BEEN EXAMINED FOR ITEMS OF ARCHAEOLOGICAL SIGNIFICANCE. AS APPLICABLE, THE CONTRACTOR SHALL EXAMINE INTENDED LOCATIONS FOR OFFSITE FACILITIES, WHETHER IN WETLANDS OR NOT, FOR ITEMS OF ARCHAEOLOGICAL IMPORT. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF THE INTENDED LOCATION (LEGAL DESCRIPTION OF THE QUARTER-SECTION) WHO WILL EXAMINE THE SITE AND CONFER WITH THE PROPER AUTHORITIES FOR THIS DETERMINATION. THE CONTRACTOR SHALL ALLOW UP TO 10 DAYS FOR THE ARCHAEOLOGICAL INVESTIGATION. IF A SITE IS DETERMINED TO BE OF ARCHAEOLOGICAL SIGNIFICANCE, REQUIRING FURTHER INVESTIGATION, THE CONTRACTOR MAY POSTPONE THE EXCAVATION UNTIL THE REMOVAL OF THE ARTIFACTS IS COMPLETE, MAY OBTAIN AN ALTERNATE LOCATION OF THE SOURCE OF BORROW MATERIAL, OR WORK IN A SEPARATE PORTION OF THE PROJECT AS REQUIRED.

IF, DURING ANY EXCAVATION ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED THE CONTRACTOR SHALL IMMEDIATELY CEASE THE EXCAVATION OPERATION AND NOTIFY THE ENGINEER WHO WILL CONTACT THE PROPER AUTHORITIES FOR AN EVALUATION. DEPENDING ON THE SIGNIFICANCE OF THE ARCHAEOLOGICAL FIND, THE CONTRACTOR MAY EXPERIENCE ONLY A SHORT DELAY, WHILE IN OTHER CASES THE TIME INVOLVED MAY BE SUCH THAT THE CONTRACTOR MAY WANT TO CONSIDER AN ALTERNATE SOURCE OF MATERIAL. IN SUCH CASES, WITH APPROVAL OF THE ARCHAEOLOGICAL AUTHORITIES, THE CONTRACTOR MAY BE ALLOWED TO COVER OVER (RE-BURY) THE ARCHAEOLOGICAL MATERIALS AND MOVE TO ANOTHER LOCATION.

WHEN ARCHAEOLOGICAL MATERIALS ARE REMOVED FROM THE SITE, THE REMOVAL MUST BE DONE IN ACCORDANCE WITH THE NATIONAL HISTORIC PRESERVATION ACT AND THE ARCHAEOLOGICAL RESOURCES PROTECTION ACT OF 1979, THE OKLAHOMA STATE REGISTER OF HISTORIC PLACES ACT, THE OKLAHOMA VIOLATING SEPULCHRE ACT, AND THE REMAINS OF THE DEAD ACT (REFER TO OKLAHOMA STATUTE 21, SEC. 1168 AND 53, SEC. 361, OS 21, CHAPTER 47 SECTION 1168).

WHEN THE CONTRACTOR'S CONSTRUCTION OPERATION IS DELAYED DUE TO ARCHAEOLOGICAL FINDS, THE OWNER WILL EXTEND THE PROJECT DURATION COMMENSURATE WITH THE AMOUNT OF DELAY INVOLVING ITEMS ON THE CRITICAL PATH. MONETARY COMPENSATION WILL NOT BE ALLOWED FOR THESE PURPOSES.

NO ENDANGERED SPECIES HAVE BEEN OBSERVED UPON THE PROPOSED CONSTRUCTION SITE HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF AND COMPLY WITH THE ENDANGERED SPECIES ACT. UPON OBSERVING SPECIES, SUCH AS THE AMERICAN BURYING BEETLE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER. CARE MUST BE TAKEN IN HANDLING DEAD OR INJURED SPECIES IN ORDER TO PRESERVE BIOLOGICAL MATERIALS FOR LATER ANALYSIS. THE CONTRACTOR MUST ENSURE THAT SUCH EVIDENCE IS NOT UNNECESSARILY DISTURBED.

THE CONTRACTOR SHALL:

A) COMPLY WITH AND UPDATE ON A WEEKLY BASIS AS THE WORK PROCEEDS, THE STORM WATER POLLUTION PREVENTION PLAN.

B) TAKE PRECAUTIONS IN HANDLING AND/OR STORAGE OF FUELS OR OTHER HAZARDOUS MATERIALS TO PREVENT DISCHARGE OR SPILLAGE RESULTING IN WATER QUALITY DEGRADATION.

C) PERFORM EXCAVATION AND GRADING OPERATIONS IN A MANNER TO CONTROL OR ELIMINATE SEDIMENT DISTURBANCE AND SOIL EROSION.

D) IMMEDIATELY SEED, REPLANT, SOD OR PROVIDE EQUIVALENT PROTECTION AGAINST EROSION THOSE AREAS DISTURBED BY THE CONSTRUCTION.

**DEMOLITION, RESTORATION, AND MISCELLANEOUS NOTES:**

THE EXISTING UTILITIES ARE LOCATED AS THEY ARE SHOWN ON THE DRAWINGS IN THE PHOTOGRAPHS.

CONTRACTOR SHALL FIELD SCAN FOR UNDERGROUND UTILITIES AND VERIFY THE SIZE, LOCATION, AND ELEVATION OF THE EXISTING UTILITIES PRIOR TO STARTING EXCAVATION OR DEMOLITION.

THE SPECIFIC LOCATION AND ELEVATION OF ABANDONED UTILITIES AND LIMITS OF THE REMOVED UTILITIES SHALL BE RECORDED FOR THE AS-BUILT DRAWINGS.

THE CONTRACTOR SHALL COORDINATE THE DISCONNECTION AND REMOVAL OF THE EXISTING UTILITIES WITH THE UTILITY PLANS AND WITH APPROPRIATE PUBLIC OR PRIVATE UTILITY COMPANIES.

ALL EXISTING UTILITIES ARE TO REMAIN IN-PLACE AND IN-SERVICE UNLESS NOTED OTHERWISE.

REMOVE EXISTING FOUNDATIONS, WALLS, SLABS, PIERS, MANHOLES, AND FOOTINGS, WHERE SPECIFIED OR REQUIRED FOR DEMOLITION, TO A MINIMUM DEPTH OF 3 FEET BELOW PROPOSED FINISH GRADE.

ALL DISTURBED AND/OR REGRADED AREAS SHALL BE SEEDED OR SLAB-SODDED AS FOLLOWS:

- ALL DISTURBED, EXCITED, TRENCHED, GRADED, OR REGRADED AREAS WITHIN 10 FEET OF A NEW STRUCTURE OR NEW PARKING LOT OR ROADWAY OR TRAIL REMEDIATION SHALL BE SLAB-SODDED. ANY RUTS OR OTHER DISRUPTIONS IN THE FINISHED GRADING WILL BE CORRECTED BY THE CONTRACTOR AND RE-SODDING WILL BE PERFORMED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL OTHER DISTURBED AREAS SHALL BE SEEDED, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR AT THE INSTRUCTION OF THE ENGINEER. THE CONTRACTOR MAY ELECT TO PLACE SOLID SLAB SOD IN LIEU OF SEEDING, BUT PAYMENT WILL STILL BE MADE IN THESE DESIGNATED AREAS BASED ON THE PRICE OF SEEDING. ALL NECESSARY WATERING WILL BE PERFORMED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER UNTIL SUCH TIME AS THE SEEDING IS ESTABLISHED; WHICH MAY REQUIRE ADDITIONAL SEEDING. ANY RUTS OR OTHER DISRUPTIONS IN THE FINISHED GRADING WILL BE CORRECTED BY THE CONTRACTOR AND RE-SEEDING WILL BE PERFORMED AT NO ADDITIONAL EXPENSE TO THE OWNER

ANY BACKFILL SHALL BE OFF-SITE EXCAVATED MATERIAL, APPROVED BY OWNER'S REPRESENTATIVE IN ADVANCE OF HAUL OR PLACEMENT.

ALL BACKFILLED AND REGRADED AREAS SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL BEFORE BEING SODDED OR SEEDED. THERE SHALL BE NO FOREIGN MATERIALS, ROCKS, CONSTRUCTION DEBRIS, TRASH, ETC. IN THE TOPSOIL.

REFER TO SHEET G003 AND G004 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND INFORMATION.

DEMOLITION IS MINIMAL AND THE DRAWINGS REFLECT MINIMUM DEMO. FOR CONTRACT BUT MAY NOT REFLECT ALL OF WORK, CONTRACTOR TO COMPLETE AS NECESSARY FOR SCOPE OF WORK AS DIRECTED BY ENGINEER.

THE CONTRACTOR IS REQUIRED TO PERFORM A POST-CONSTRUCTION SURVEY TO DOCUMENT THE FINAL CHANGES BASED ON CONSTRUCTED CONDITIONS. THIS SURVEY WILL BE USED FOR FINAL QUANTITY DETERMINATION WHEN COMPARED WITH THE PRE-EXISTING TOPOGRAPHIC CONTOURS SHOWN ON THE DRAWINGS.

**APPROXIMATE UNIT PRICE BID QUANTITIES:**

- WEST PL EXCAVATION UNCLASSIFIED (CUT)- 300 CY
- WEST PL EXCAVATION UNCLASSIFIED (FILL)- 320 CY
- EAST PL EXCAVATION UNCLASSIFIED (CUT)- 300 CY
- EAST PL EXCAVATION UNCLASSIFIED (FILL)- 300 CY
- TRANSPORT AND DISPOSAL OF EXCESS MATERIAL - 250 CY
- TYPE A AGGREGATE BASE GRAVEL FOR WEST PL - 790 CY
- TYPE A AGGREGATE BASE GRAVEL FOR EAST PL - 605 CY
- REINFORCED CONCRETE FOR WEST PL - 1220 CY
- REINFORCED CONCRETE FOR EAST PL - 910 CY
- PAVEMENT STRIPING WEST PL - 3200 LF PLUS ARROWS & HANDICAP
- PAVEMENT STRIPING EAST PL - 1400 LF PLUS ARROWS & HANDICAP
- POST & CABLE FENCE WEST PL - 830 LF
- POST & CABLE FENCE EAST PL - 570 LF
- DOUBLE GATE WEST PL - 1 EACH
- DOUBLE GATE EAST PL - 1 EACH
- SOD AND SEED WEST PL - 5265 SY
- SOD AND SEED EAST PL - 2670 SY
- CULVERT WEST PL - 1 - 18-IN. DIA - 39 LF
- CULVERT EAST PL - 1 - 12-IN. DIA - 28 LF
- CULVERT EAST PL - 1 - 18-IN. DIA - 39 LF
- EAST PL MOVE LARGE STONES - 70

**LUMP SUM BID ITEMS:**

- MOBILIZATION - LUMP SUM - 1 EA
- CONSTRUCTION STAKING LEVEL II - LUMP SUM - 1 EA
- DE-MOBILIZATION - LUMP SUM - 1 EA
- AS-BUILT SURVEY - LUMP SUM - 1 EA
- CONTRACTOR QUALITY CONTROL - LUMP SUM - 1 EA
- EROSION CONTROL, MONITORING AND REPORTING - LUMP SUM - 1 EA
- OWNER ALLOWANCE - LUMP SUM - 1 EA
- TESTING SERVICES ALLOWANCE - LUMP SUM - 1 EA

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CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

 Hydropower International Services  
Inter-National Consultancy, L.L.C.

TURKEY MOUNTAIN PARKING  
WEST AND EAST PARKING LOTS

CIVIL CONSTRUCTION NOTES  
SHEET 2

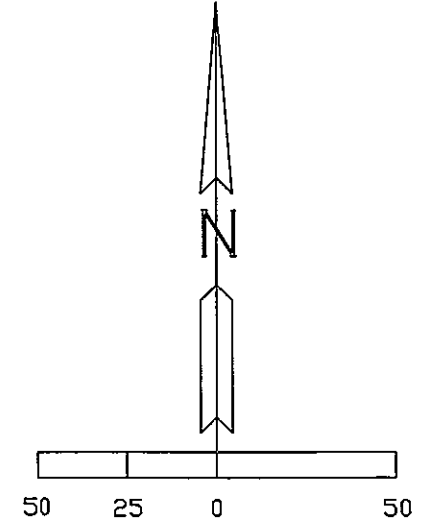
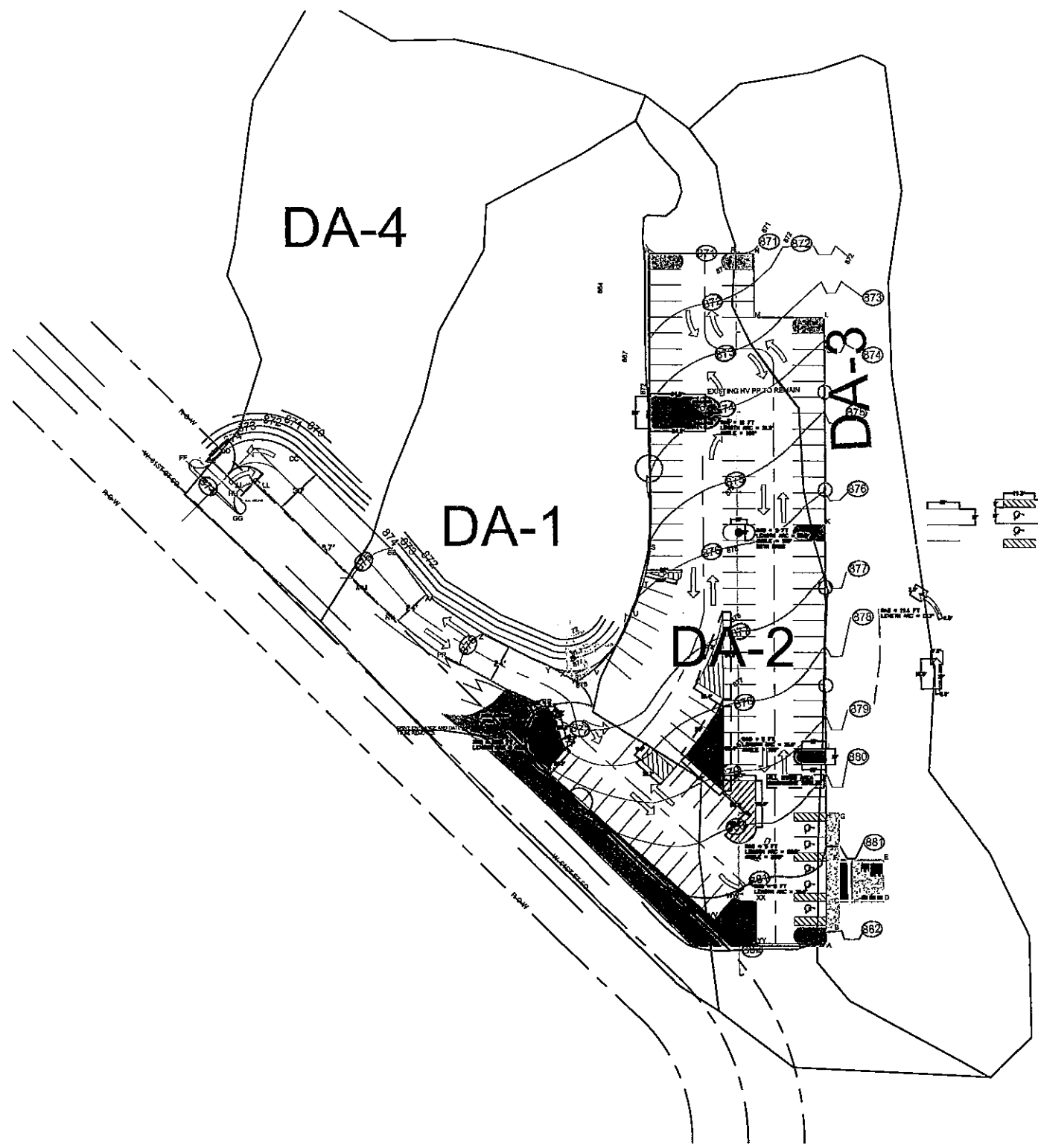
SCALE	N/A	DRAWING NUMBER	G-004	
DRAWN	JM	FILE NAME	DS-23-753	
CHECKED	WBS	SHEET NUMBER	4	
SKETCHED	WBS			
APPROVED	WBS			

REV	DESCRIPTION	DATE	BY	CHKD



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**LEGEND:**

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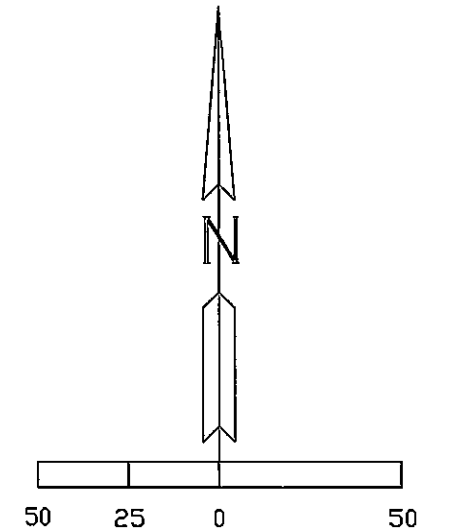
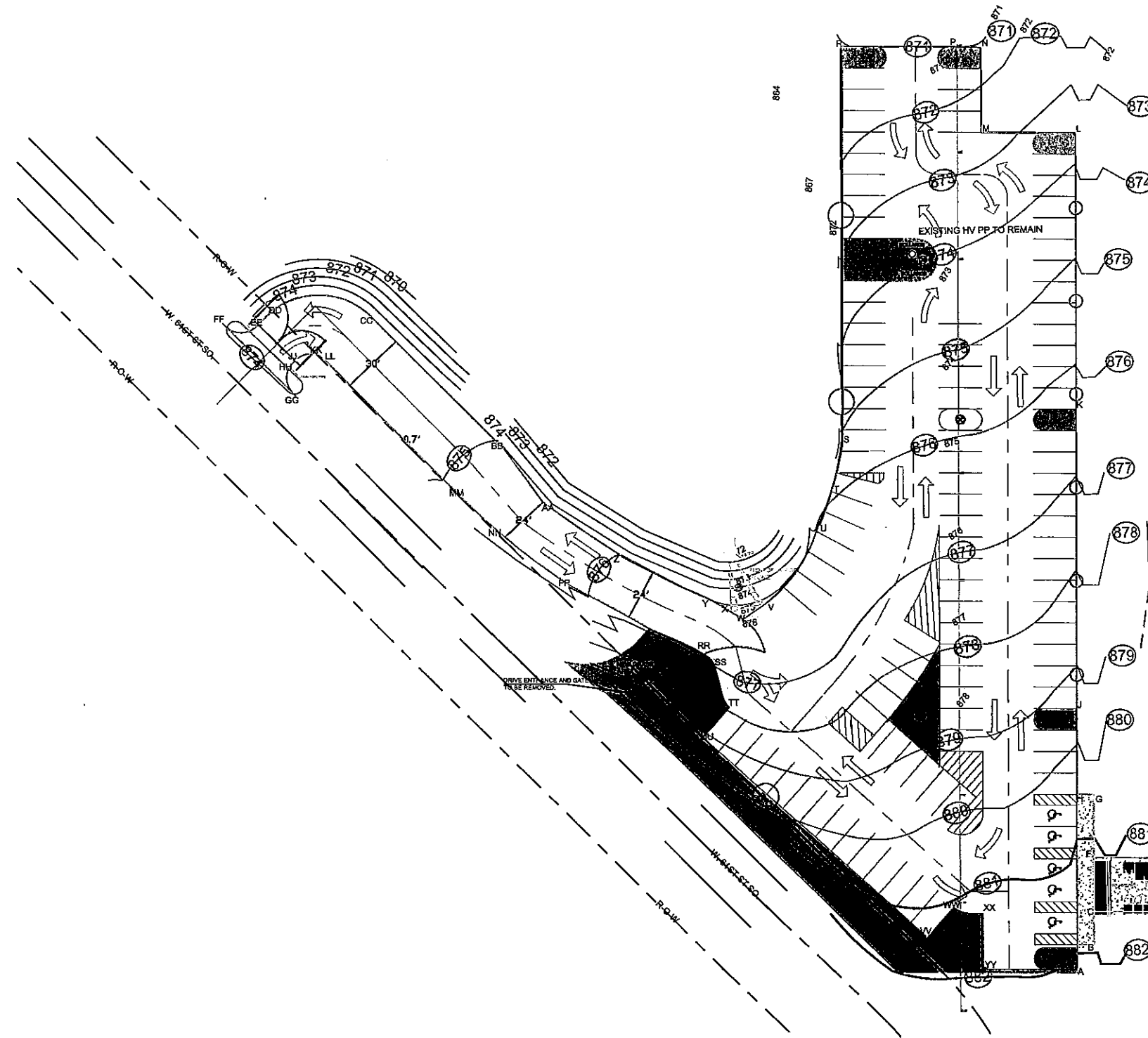
*Hydrospan International Services  
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CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

TURKEY MOUNTAIN PARKING LOTS EAST PL

EXISTING & PROJECT DRAINAGE AREA MAP

REV	DESCRIPTION	DATE	BY	CHKD	APPROVED	SCALE	N.T.S.	DRAWING NUMBER	FILE NAME	SHEET NUMBER
								G-006	DS-23-753	6



**GEOMETRIC COORDINATE TABLE:**

TURKEY MOUNTAIN EAST PARKING LOT  
GEOMETRIC STATE PLANE COORDINATES

COORD. LABEL	EASTING	NORTHING
A	2561409.93 E	395760.28 N
B	2561417.86 E	395771.59 N
C	2561417.86 E	395787.22 N
D	2561445.75 E	395787.22 N
E	2561445.75 E	395812.12 N
F	2561417.88 E	395812.25 N
G	2561417.86 E	395841.51 N
H	2561409.85 E	395841.51 N
J	2561409.89 E	395881.35 N
K	2561409.89 E	396020.89 N
L	2561409.89 E	396150.27 N
M	2561365.89 E	396150.27 N
N	2561366.08 E	396190.07 N
P	2561355.04 E	396190.51 N
R	2561300.71 E	396190.33 N
S	2561300.51 E	396004.79 N
T	2561286.10 E	395984.81 N
U	2561289.08 E	395965.68 N
V	2561265.18 E	395929.61 N
W	2561254.33 E	395922.41 N
X	2561248.72 E	395929.69 N
Y	2561238.49 E	395931.62 N
Z	2561159.76 E	395952.83 N
AA	2561160.96 E	395976.72 N
BB	2561143.00 E	396001.56 N
CC	2561081.18 E	396063.38 N
DD	2561032.91 E	396063.78 N
EE	2561027.60 E	396058.42 N
FF	2561012.10 E	396059.83 N
GG	2561045.91 E	396026.02 N
HH	2561044.50 E	396041.51 N
JJ	2561045.58 E	396042.59 N
KK	2561052.49 E	396045.80 N
LL	2561059.44 E	396042.86 N
MM	2561122.96 E	395979.37 N
NN	2561143.25 E	395960.58 N
PP	2561174.47 E	395937.26 N
RR	2561233.39 E	395907.59 N
SS	2561240.77 E	395900.87 N
TT	2561247.60 E	395881.54 N
UU	2561234.25 E	395866.47 N
VV	2561339.31 E	395773.90 N
WW	2561352.55 E	395788.90 N
XX	2561365.89 E	395765.28 N
YY	2561365.89 E	395780.28 N

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



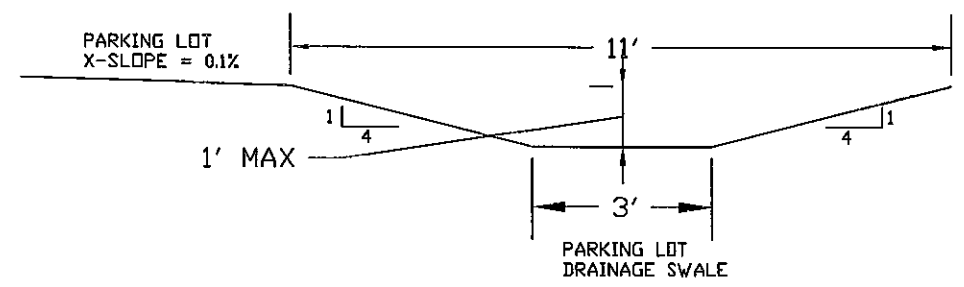
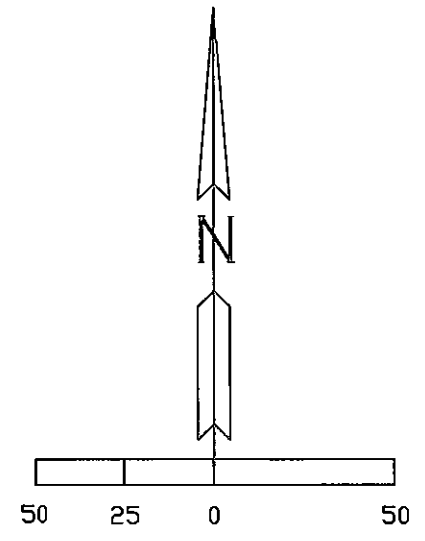
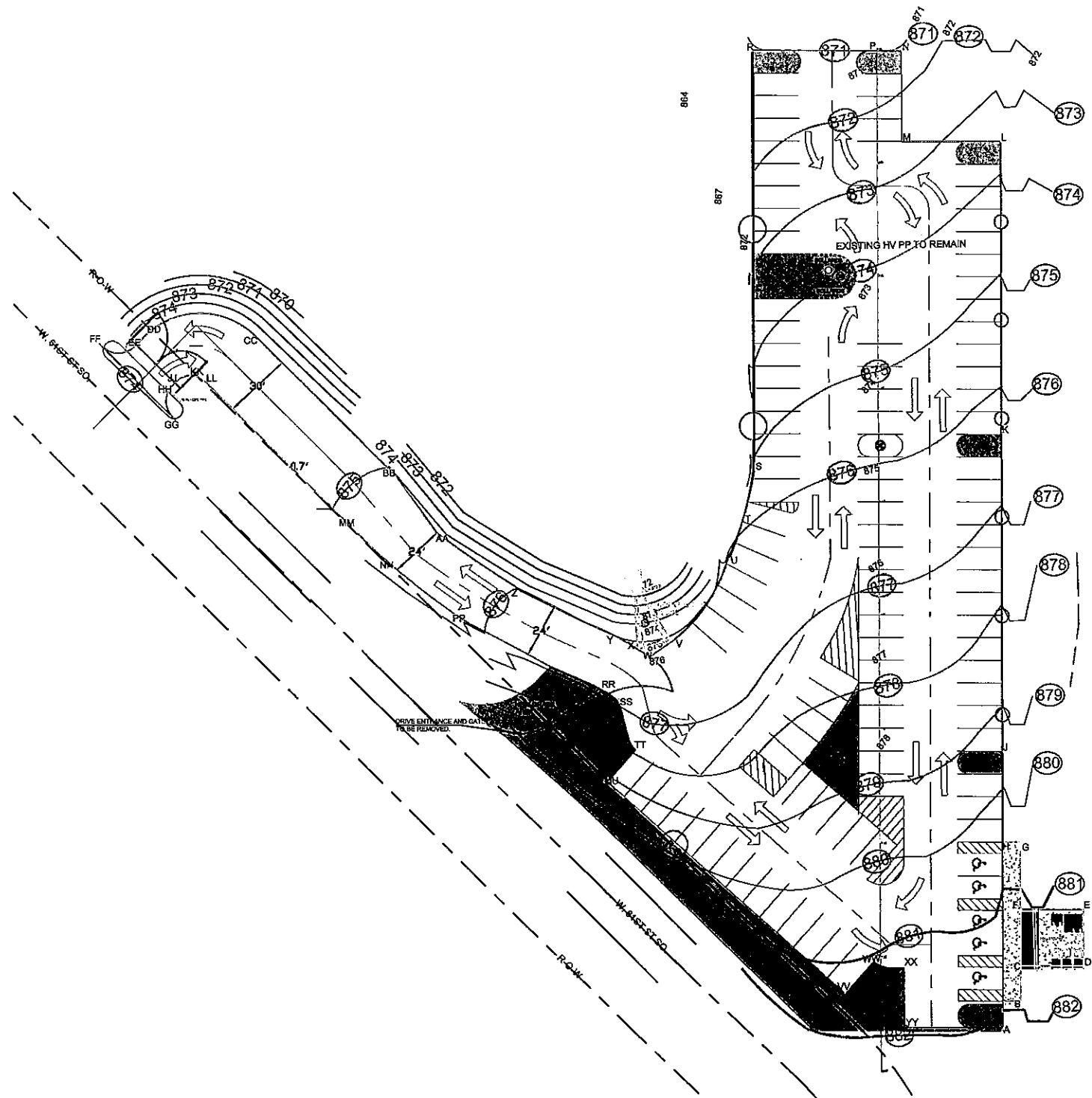
48 HOURS BEFORE YOU DIG...CALL OKIE  
1-800-522-6543  
Oklahoma One-Call System, Inc.



Hydroponics International Services  
Inter-National Consultancy, L.L.C.



TURKEY MOUNTAIN PARKING LOTS EAST PL			
PROJECT GEOMETRIC LAYOUT			
SCALE	N.T.S.	DRAWING NUMBER	
DATE		C-002	
SUBMITTED		FILE NAME	SHEET NUMBER
REV	DESCRIPTION	DA-23-753	8



PROPOSED DRAINAGE SWALE ADJACENT TO EAST SIDE OF PARKING LOT - DRAINS TO NORTH (SEE CONSTRUCTION DRAWINGS FOR DETAILS)

FOR PROPOSED FLUME SEE ODOT DETAIL SHEET

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



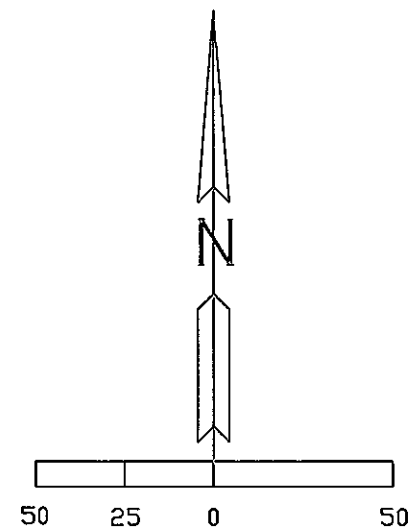
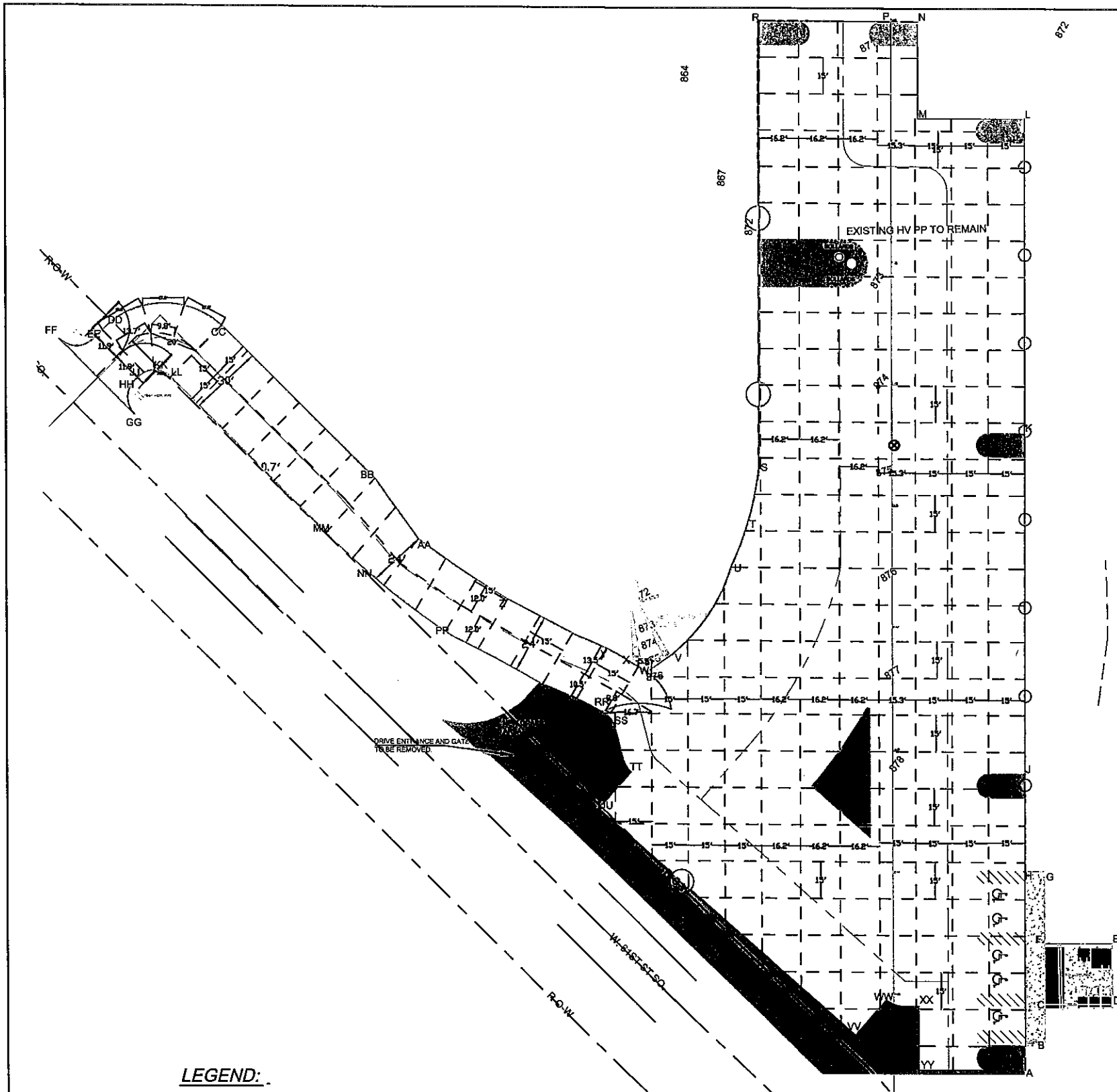
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TURKEY MOUNTAIN PARKING LOTS EAST PL			
GRADING PLAN			
SCALE	N.T.S.	DRAWING NUMBER	C-004
DRAWN		FILE NUMBER	DA-23-753
DESIGNED		SHEET NUMBER	10
SUBMITTED			
REV	DESCRIPTION	DATE	APPROVED



**GENERAL NOTES:**

1. IN GENERAL, JOINT LAYOUT SHALL BE 15 FT X 15 FT DIMENSIONS (ACI).
2. FOR SPECIAL AREAS, SEE DIMENSIONS SHOW ON DRAWINGS, OR REQUEST CLARIFICATION FROM DESIGN ENGINEER.
3. SEE CITY OF TULSA STANDARD REFERENCE DRAWING FOR DETAILS.

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



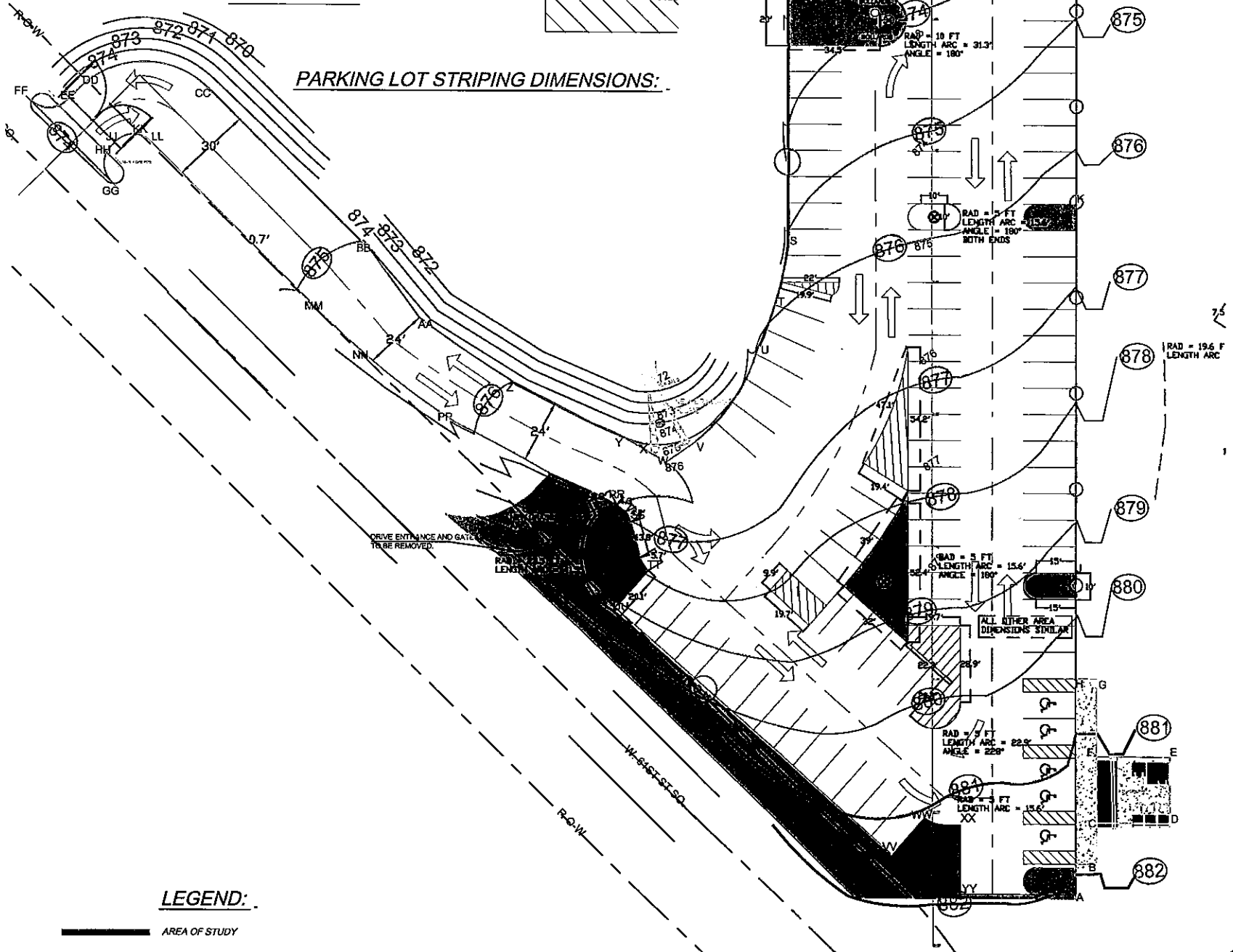
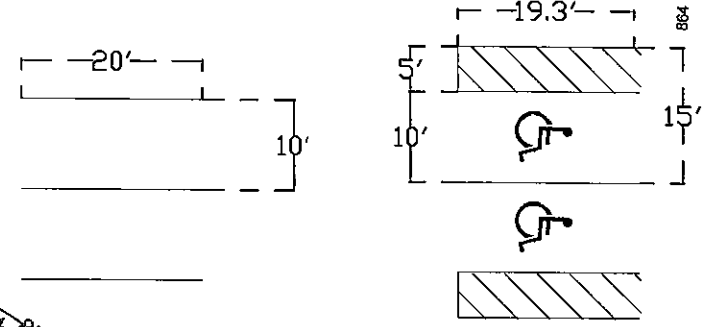
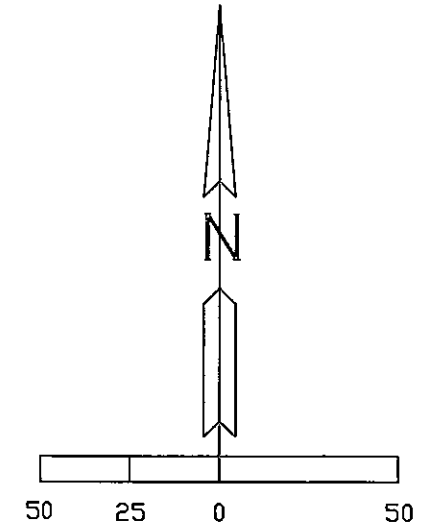
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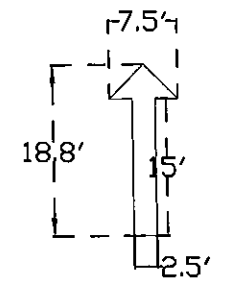
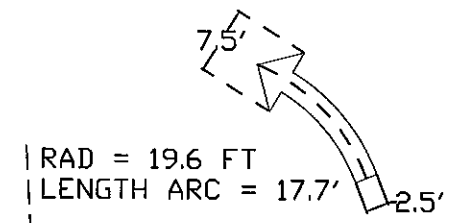


				TURKEY MOUNTAIN PARKING LOTS EAST PL	
				PROJECT CONCRETE PAVEMENT JOINT LAYOUT	
SCALE	N.T.S.	DRAWING NUMBER		C-005	
DESIGNED		FILE NO.	DA-23-753	SHEET NUMBER	
SUBMITTED				11	
BY	DESIGNER	DATE	CHK	APPROVER	



**GENERAL NOTES:**

1. DIMENSIONS FOR ROCK AREAS AND STRIPING SHOWN ON DRAWING
2. FOR SPECIAL AREAS, REQUEST CLARIFICATION FROM DESIGN ENGINEER.
3. SEE CITY OF TULSA STANDARD REFERENCE DRAWING FOR DETAILS.



**ARROW STRIPING DIMENSIONS:**

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS

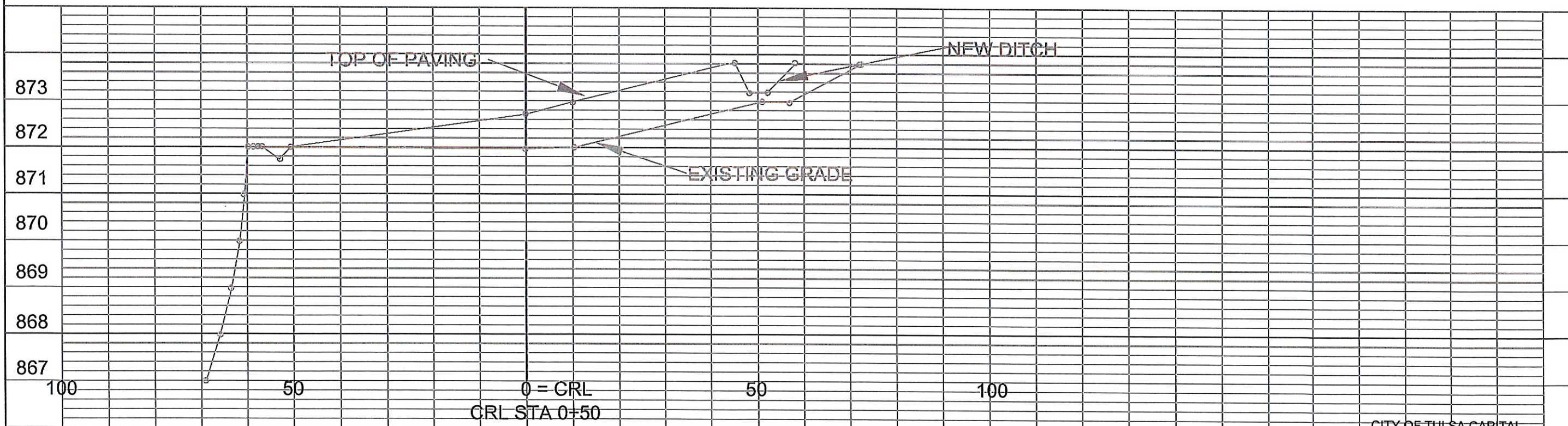
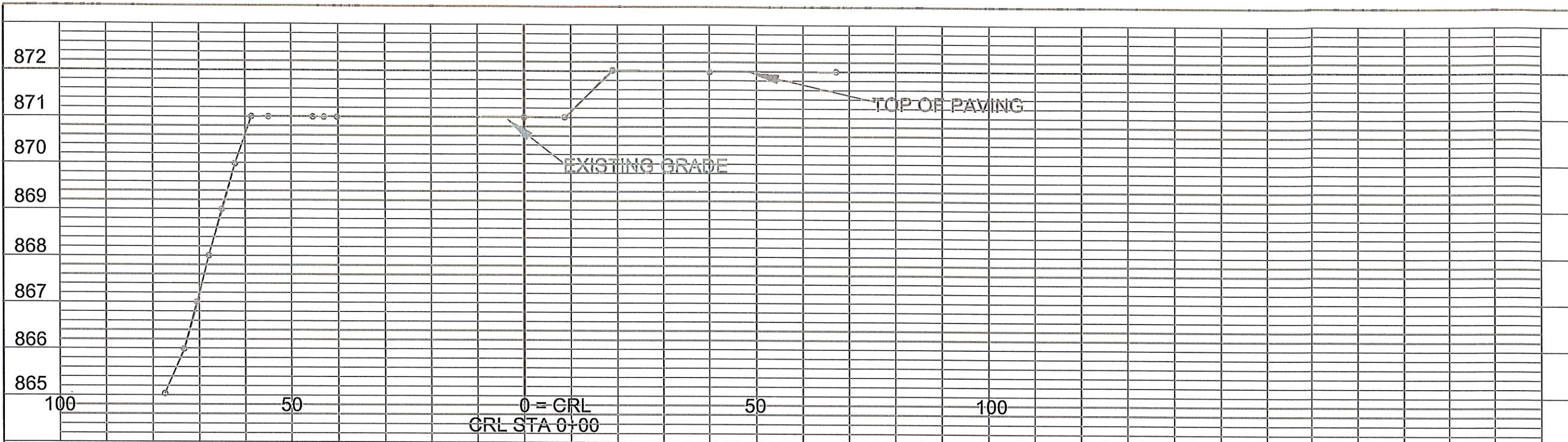
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Oklahoma One-Call System, Inc.



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Inter-National Consultancy, L.L.C.



				TURKEY MOUNTAIN PARKING LOTS EAST PL	
				PROJECT ISLAND AND STRIPING DIMENSIONS	
SCALE	N.T.S.	DRAWING NUMBER			
DATE		C-007			
DESIGNED BY		FILE NO.	DA-23-753	SHEET NUMBER	13
CHECKED BY		APPROVED			



CITY OF TULSA CAPITAL  
IMPROVEMENT PROJECT

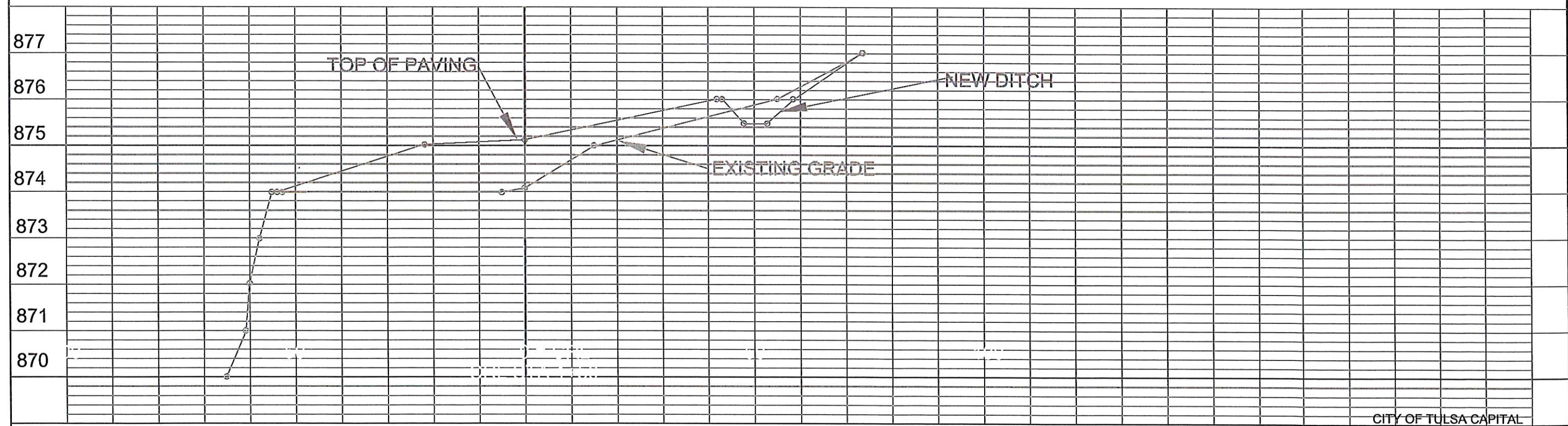
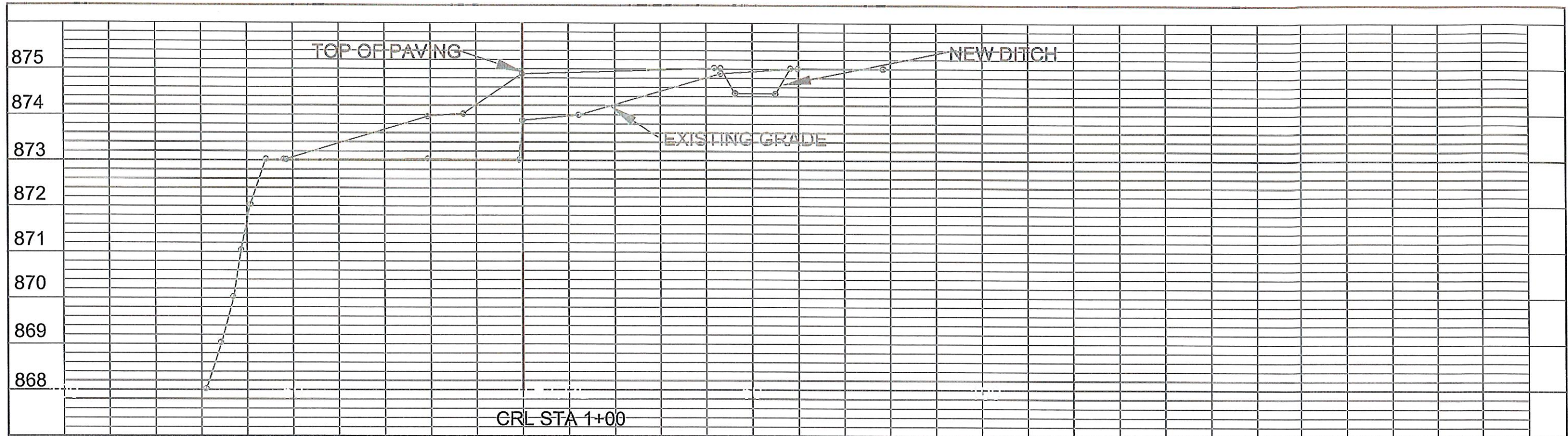
TURKEY MOUNTAIN PARKING  
E 61ST ST. SO.

EAST PARKING LOT  
CROSS SECTIONS  
0+00 TO 0+50



Hydropower International Services  
Inter-National Consultancy, L.L.C.

SCALE	N.T.S.	DRAWING NUMBER	C-012
DESIGN		FILE NAME	DA-23-753
DRAWN		SHEET NUMBER	18
APPROVED			



CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

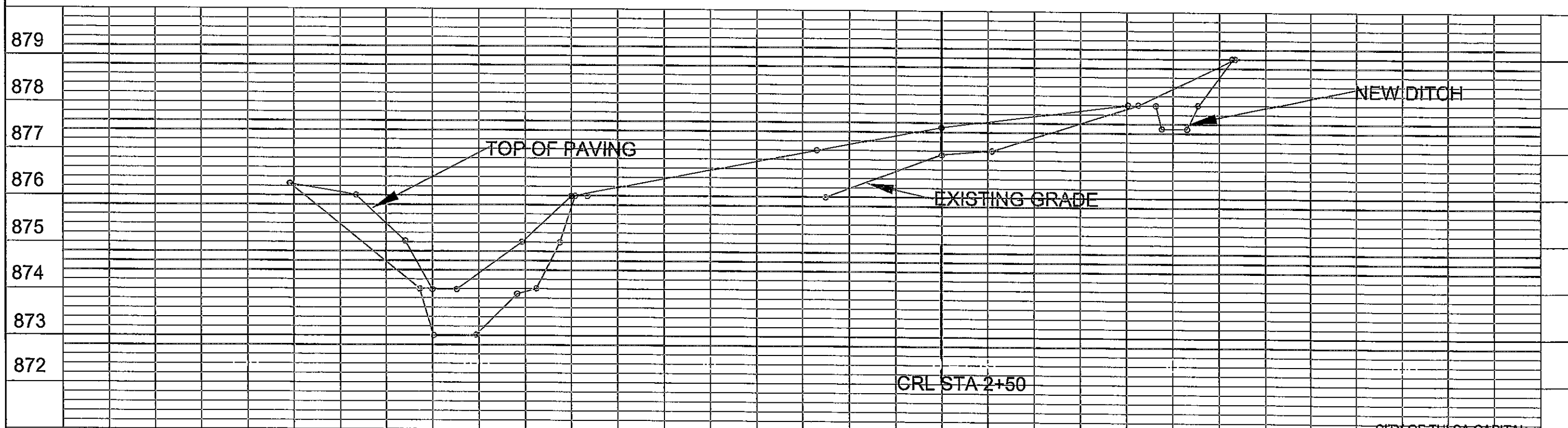
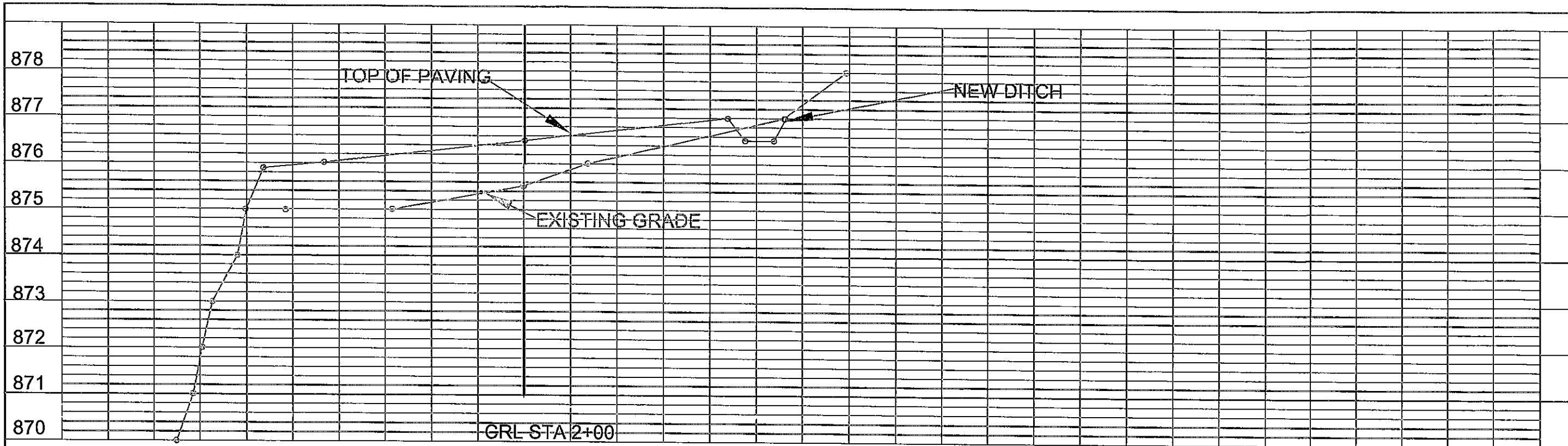
TURKEY MOUNTAIN PARKING E 61ST ST. SO.

EAST PARKING LOT CROSS SECTIONS 1+00 TO 1+50



Hydrospace International Services  
Inter-National Consultancy, L.L.C.

SCALE	N.T.S.	DRAWING NUMBER	C-013
DESIGNER		FILE NAME	DA-23-753
CHECKED		SHEET NUMBER	19
SUBMITTED			
REV	DESCRIPTION	DATE	APPROVED



CITY OF TULSA CAPITAL  
IMPROVEMENT PROJECT

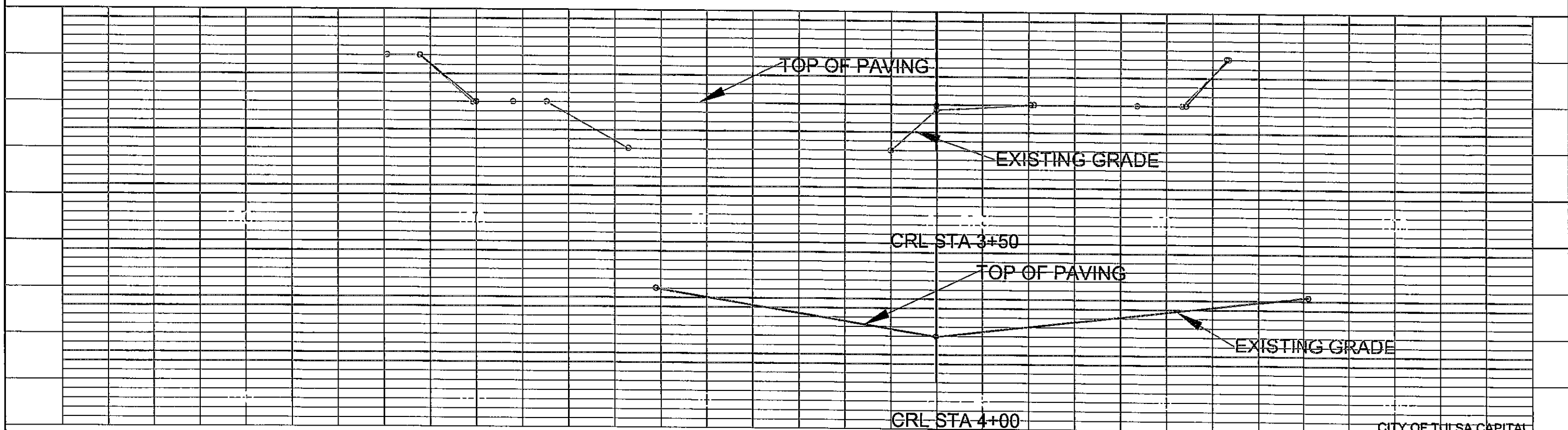
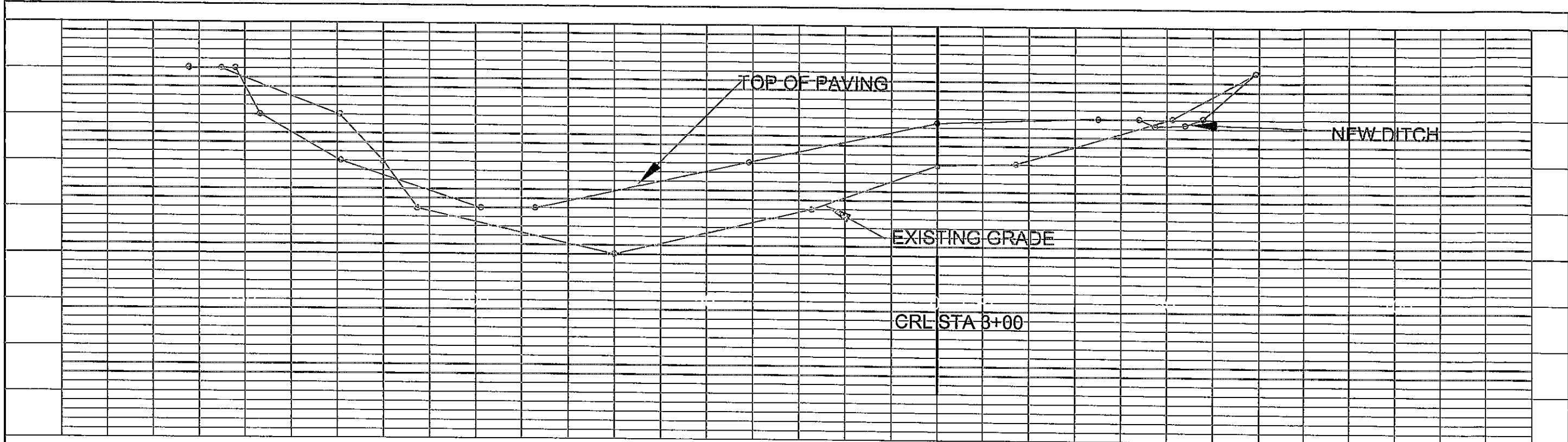
TURKEY MOUNTAIN PARKING  
E 61ST ST. SO.

EAST PARKING LOT  
CROSS SECTIONS  
2+00 TO 2+50



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Inter-National Consultancy, L.L.C.

SCALE	NTS.	DRAWING NUMBER	C-014
DRAWN		FILE NAME	DA-23-753
CHECKED		SHEET NUMBER	20
DATE			
APPROVED			



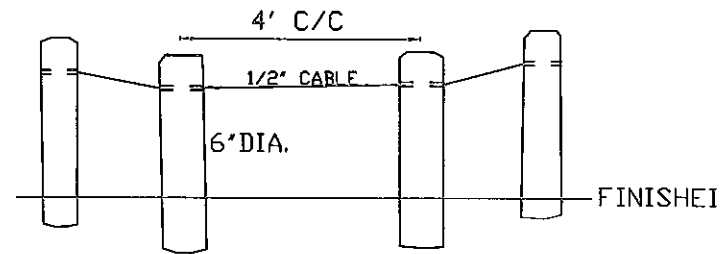
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 Inter-National Consultancy, L.P.C.

CITY OF TULSA CAPITAL  
 IMPROVEMENT PROJECT

TURKEY MOUNTAIN PARKING  
 E 61ST ST. SO.

EAST PARKING LOT  
 CROSS SECTIONS  
 3+00 TO 4+00

SCALE	N.T.S.	DRAWING NUMBER	C-015
DRAWN		FILE NAME	DA-23-753
DESIGNED		SHEET NUMBER	21
SUBMITTED			
NO.	DESCRIPTION	DATE	APPROVED



USE 6" DIAMETER TREATED POSTS  
POST & CABLE FENCE DETAIL :

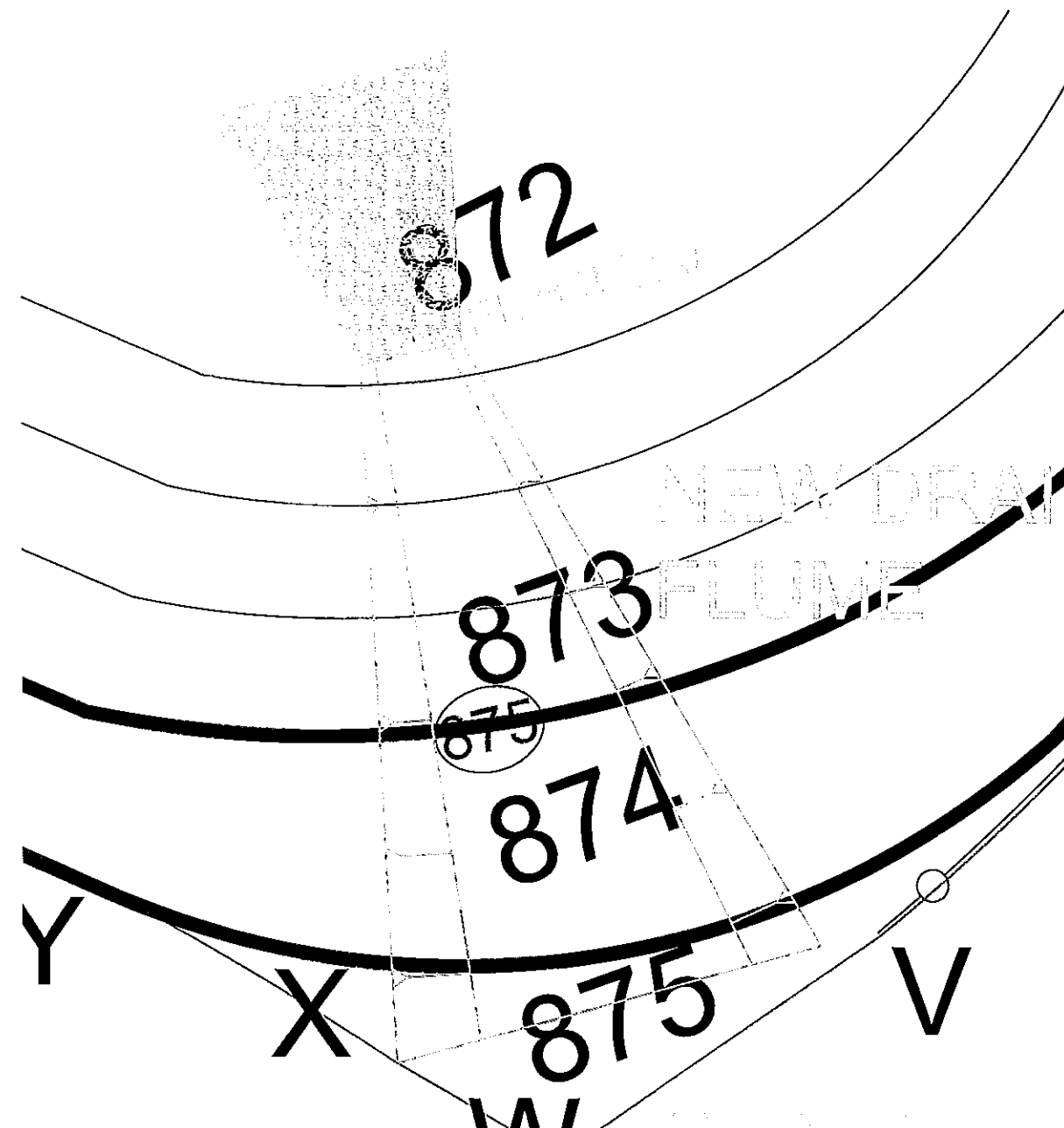
USE 6" DIAMETER TREATED POSTS

BURY POSTS A MINIMUM OF 2 FT. INTO GROUND

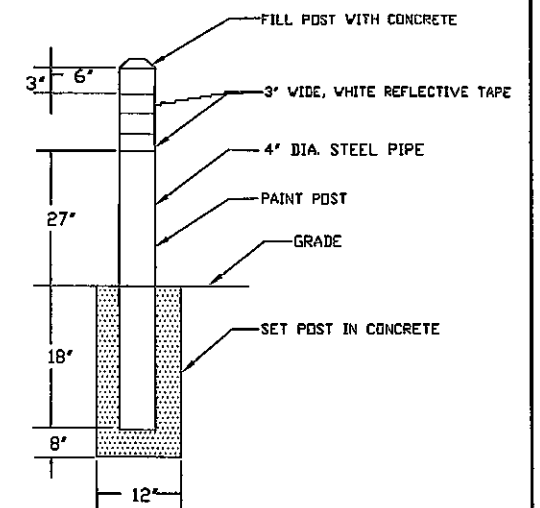
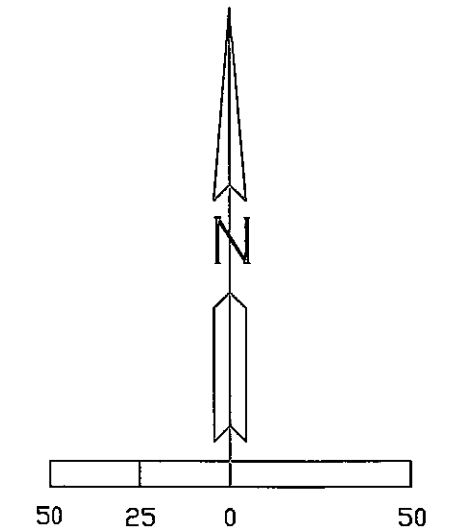
TOP OF POST SHALL BE 36-INCHES ABOVE FINAL GRADE

USE 1/2-IN. GALVANIZED CABLE FOR CABLING BETWEEN POSTS.

DRILL 3/4-IN HOLES IN POSTS - 6 INCHES BELOW TOP OF POSTS TO THREAD CABLE.



FLUME DETAIL :



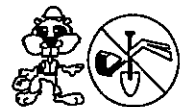
TYPICAL BOLLARD DETAIL

BOLLARD DETAIL :

GENERAL NOTES:

AREA OF STUDY

1. FOR PAVING SECTION FOR PARKING LOTS - SEE REFERENCE DRAWING STD.732 CITY OF TULSA - ALL WEATHER PARKING SURFACES FOR 6-INCH CITY OF TULSA RESIDENTIAL STREET.
2. FOR SIDEWALK RAMP FROM PARKING AREA TO REST AREA - SEE REFERENCE DRAWING STD.790 CITY OF TULSA - STANDARD SIDEWALK RAMP
3. FOR DOUBLE POLE GATE - SEE REFERENCE DRAWING STD 784 - CITY OF TULSA - DOUBLE POLE GATE
4. FOR SILT FENCE AND CONSTRUCTION ENTRANCE - SEE REFERENCE DRAWING STD-126 - CITY OF TULSA STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
5. FOR FLUME DETAIL - SEE REFERENCE DRAWING DC-3 - ODOT PAVED DITCHES AND SECTIONS



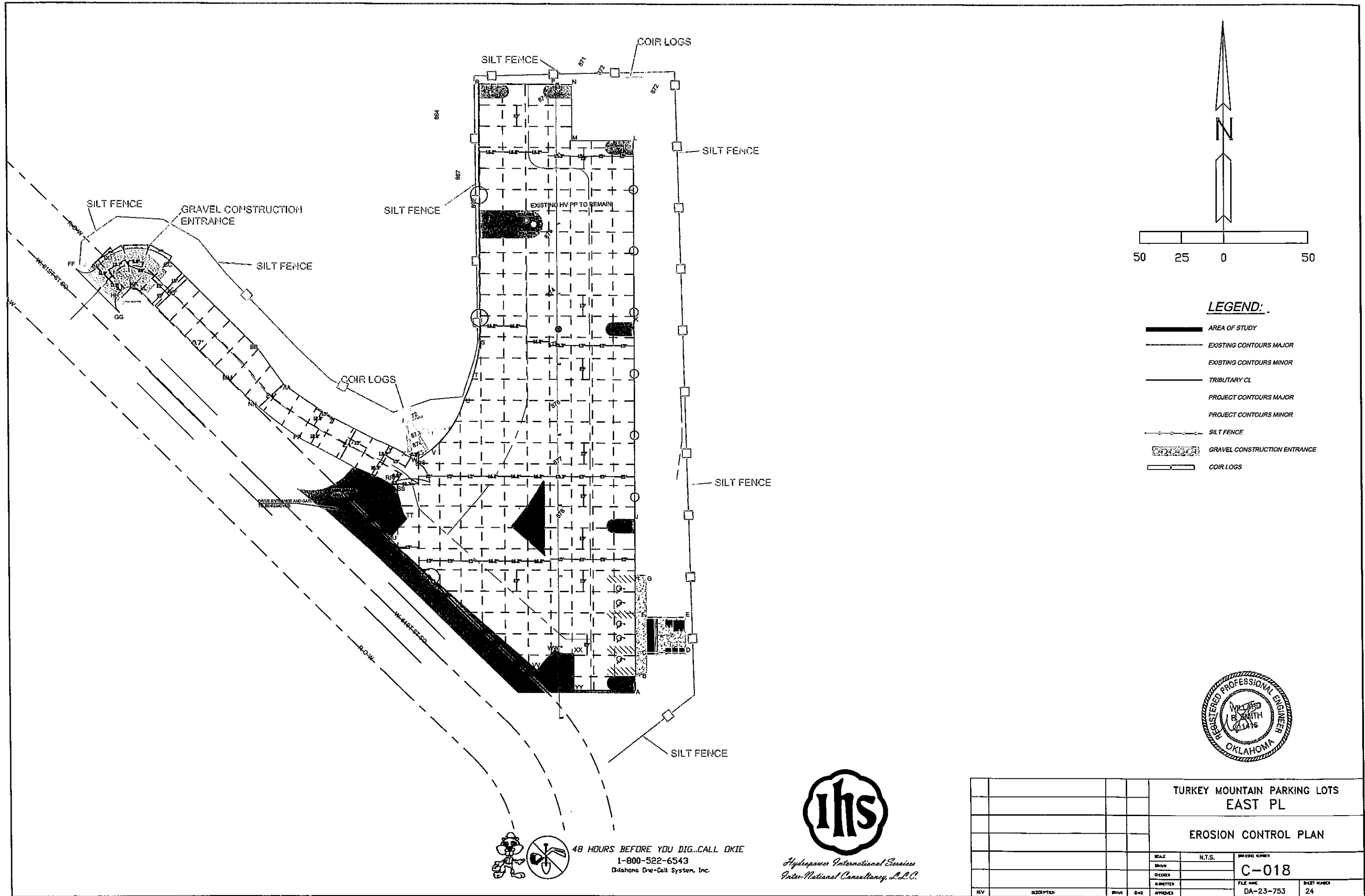
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 1-800-522-6543  
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 Inter-National Consultancy, L.L.C.



				TURKEY MOUNTAIN PARKING LOTS WEST & EAST PLS	
				MISCELLANEOUS DETAILS	
SCALE	N.T.S.	DRAWING NUMBER	C-016		
DATE		FILE NAME	DA-23-753	SHEET NUMBER	22
DESIGNED	BY	CHECKED	APPROVED		



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1-800-522-6543  
Oklahoma Dredge-Call System, Inc.



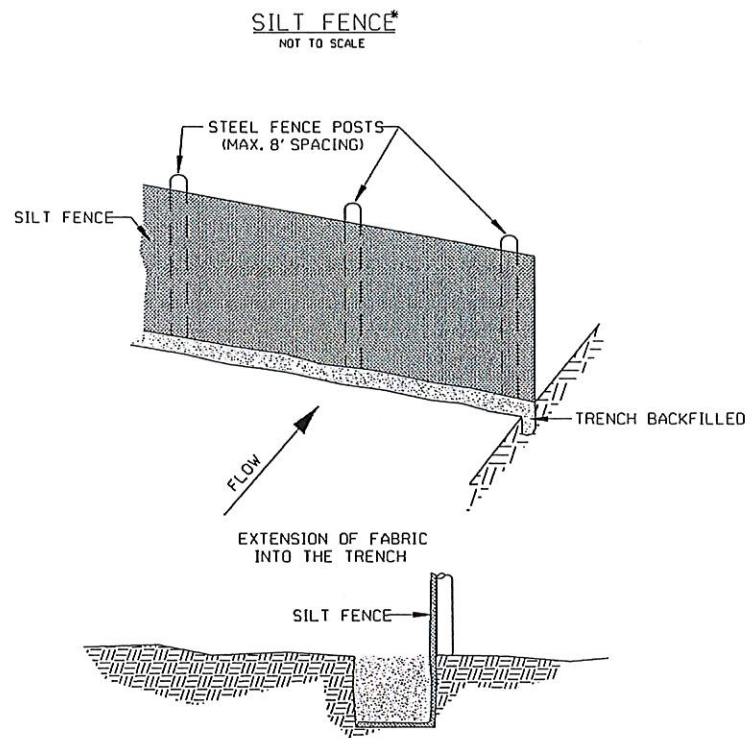
Hydro-power International Services  
Inter-National Consultancy, L.L.C.



		TURKEY MOUNTAIN PARKING LOTS EAST PL	
		EROSION CONTROL PLAN	
SCALE	N.T.S.	DRAWING NUMBER	C-018
DRAWN		FILE NAME	DA-23-753
DESIGNED		SHEET NUMBER	24
APPROVED			







**NOTE:**

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND 3-4 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE TRENCH 4" AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE, IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO. 7 ABOVE.

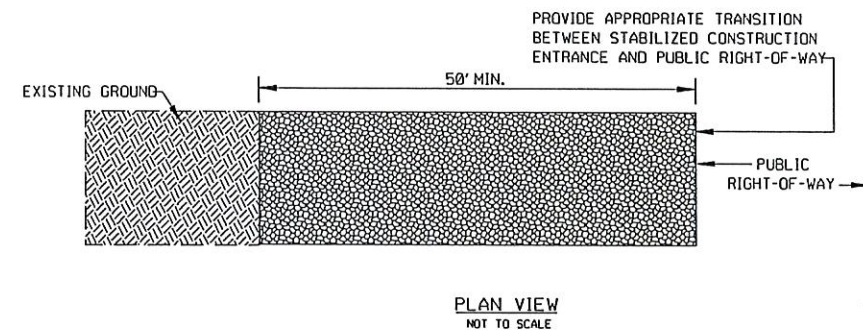
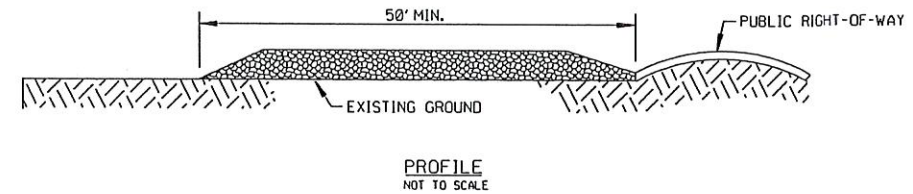
\* DRAINAGE AREA LESS THAN TWO (2) ACRES.



REFERENCE:  
CHAPTER 1000: CITY OF TULSA STORMWATER MANAGEMENT CRITERIA MANUAL.

STANDARD OBTAINED FROM: USDA-SCS, MD. STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**NOTE:**

1. STONE SIZE AASHTO DESIGNATION M43, SIZE NO. 2 (2-1/2" TO 1-1/2"). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

PATH NAME: E:\PARTS\STD\DDN\STD\126-STD-SILT-FENCE-CONST-ENT.DGN SSW 09/19/2013

REVISION	BY	DATE

*[Signature]*  
CITY ENGINEER

*[Signature]*  
DESIGN MANAGER

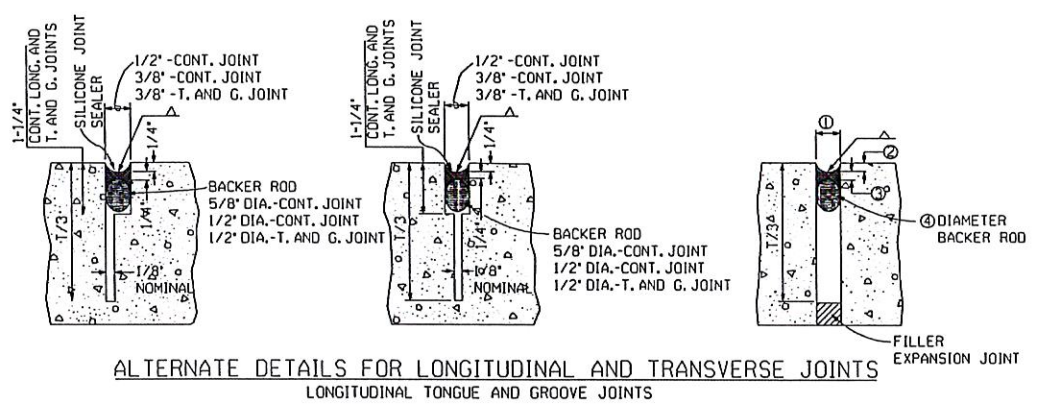
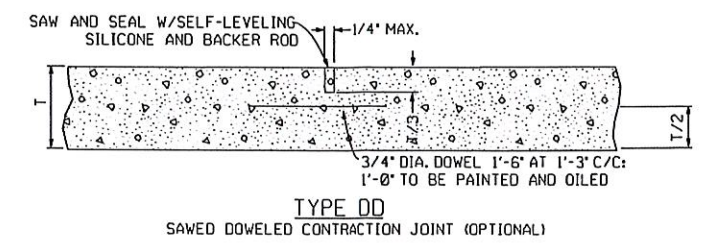
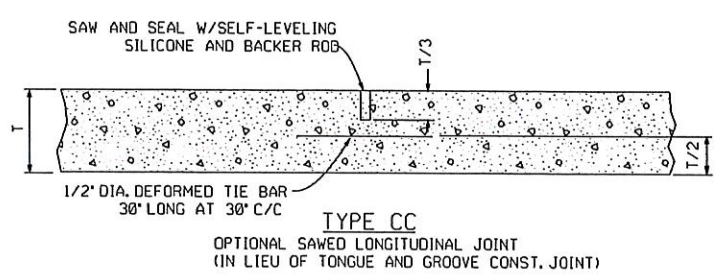
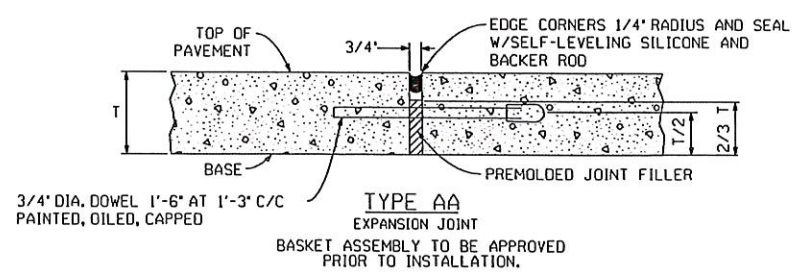
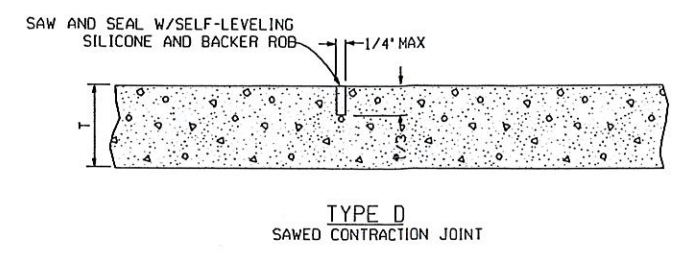
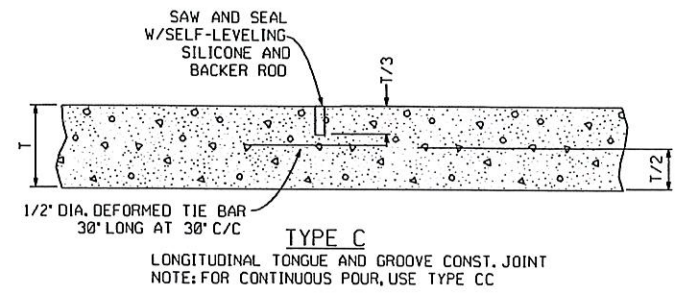
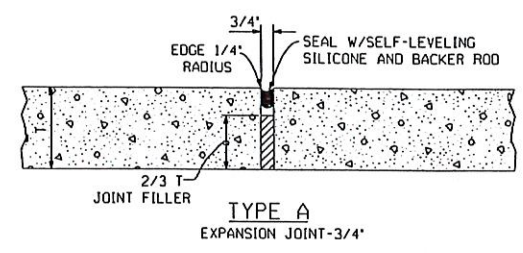
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

STANDARD SILT FENCE  
AND CONSTRUCTION ENTRANCE

DATE: MARCH 2022

STD. 126

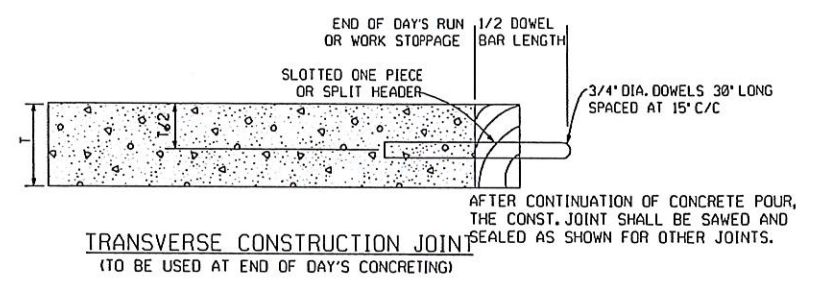
PATH NAME: \\E:\PARTS\STD\DCN.STDS\729-CONC-PVMT-STD-JOINT-DTLS.DGN RMD 10/13/2020



**EXPANSION JOINT TREATMENT TABLE**

JOINT WIDTH	SEALANT RECESS DEPTH	SILICONE SEALANT THICKNESS	BACKER ROD DIAMETER
①	②	③	④
1/2'	1/4"	1/4"	5/8"
3/4'	1/4"	3/8"	7/8"
1-1/2'	1/2"	1/2"	2"

DETAILS FOR SEALED EXPANSION JOINT



**GENERAL NOTES**

- ALL CONSTRUCTION AND MATERIALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ONLY SILICONE SEALANT MEETING REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS SHALL BE ACCEPTABLE FOR USE.
- ALL JOINTS SHALL BE BLAST CLEANED WITH WATER. THE LOOSE PARTICLES SHALL BE BLOWN OUT WITH OIL-FREE COMPRESSED AIR. SURFACES MUST BE CLEAN, DRY, FROST-FREE, AND DUST-FREE DURING INSTALLATION OF BACKER ROD AND SEALER.
- THE SHAPE FACTOR COMBINED WITH JOINT CLEANNESS IS THE CRITICAL COMBINATION NECESSARY TO GUARANTEE DESIRED BONDING AND FUNCTION OF SEALED JOINTS. NO TOLERANCE EXCEPT THOSE SHOWN HERE WILL BE ALLOWED.
- THE JOINT SHAPE FACTOR IS DEFINED AS THE FINAL PRESSED SHAPE OF THE SILICONE MATERIAL. THE TOOLING OPERATION WILL FIRMLY PRESS THE FRESHLY APPLIED MATERIAL INTIMATELY AGAINST THE CUT SIDES OF THE RECESS AND THE BACKER ROD SURFACES. THE ROUNDED SHAPE ON THE TOP AND BOTTOM OF THE SILICONE ALLOWS THE SEALANT TO PROPERLY FLEX BUT MAINTAIN ADHERENCE TO THE PAVING.

**NOTE:**

- 1. COST OF SAWING, DOWEL BAR ASSEMBLIES, JOINT FILLER, SEALER, AND STEEL SHALL BE INCLUDED IN UNIT PRICE BID FOR PCC PVMT.
- 2. EXPANSION JOINT MATERIAL SHALL BE BITUMINOUS FIBER AND OF NON-EXTRUDING TYPE.
- 3. REFER TO ODOT DRAWING LTU-5-0 FOR APPROVED LOAD TRANSFER UNITS AT TRANSVERSE CONCRETE PAVEMENT JOINTS.
- 4. APPROVED TYPE DOWEL BAR ASSEMBLY MAY BE SUBSTITUTED FOR THE ASSEMBLY SHOWN WHEN APPROVED BY THE ENGINEER. UPON APPROVAL BY THE ENGINEER, THE SAME SHALL BE USED THROUGHOUT THE PROJECT.
- 5. ANY DEVICE USED FOR SUPPORTING DOWELS SHALL HAVE SUFFICIENT RIGIDITY AND SO BE HELD IN DURING CONCRETE PLACEMENT THAT DOWELS WILL BE IN TRUE POSITION IN THE FINISHED PAVEMENT. ANY DEVICE NOT PRODUCING THE DESIRED RESULTS SHALL BE DISCONTINUED.
- 6. PRODUCER AND CONTRACTOR SHALL AVOID PATENT INFRINGEMENT OF BASKET AND SHALL SAVE THE CITY HARMLESS IN THE USE OF ANY BASKET.
- 7. DOWEL BARS SHALL HAVE A SHOP OR FIELD COAT OF ZINC CHROMATE FOR THE FULL LENGTH OF BAR AND SHALL HAVE A FIELD COAT OF M-70 ON THE FREE END (MIN. 1/2 LENGTH OF BAR).
- 8. ALL JOINTS TO BE SEALED WITH SELF-LEVELING SILICONE PER DETAIL.

**ALL CONCRETE PAVING SHALL BE 6-INCH THICK**

REVISION	BY	DATE

*[Signature]*  
CITY ENGINEER

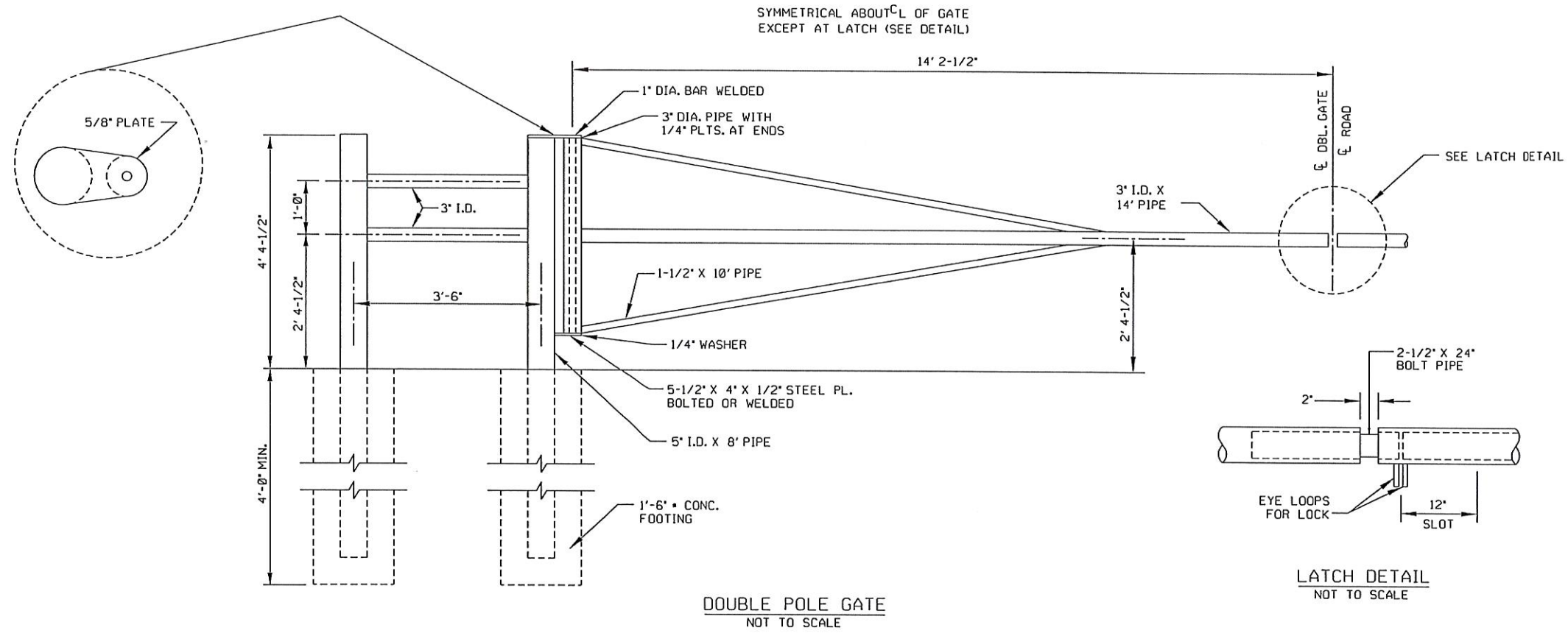
475  
DESIGN MANAGER

**JOINT DETAILS**

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT  
CONCRETE PAVEMENT STANDARD  
DETAILS FOR ALLEYS, RESIDENTIAL  
AND COLLECTOR STREETS  
SHEET 2 OF 2

DATE: MARCH 2022

PATH NAME: /E:/PARTS/STD/DCN.STDS/789-DBL-POLE-GATE.DGN LFM 05/16/2012



**NOTE:**

1. ALL PIPE AND FLAT PLATE TO BE A36 STEEL.
2. FINAL ASSEMBLY TO BE CLEANED, ZINC WASHED, 1-1/2 - 2 MILS OF FLAT BLACK POWDER COATING APPLIED, BAKED AT 350<sup>33</sup>/<sub>64</sub> - 400<sup>33</sup>/<sub>64</sub> FOR 30 MINUTES.

REVISION	BY	DATE

*[Signature]*  
CITY ENGINEER

*[Signature]*  
DESIGN MANAGER

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

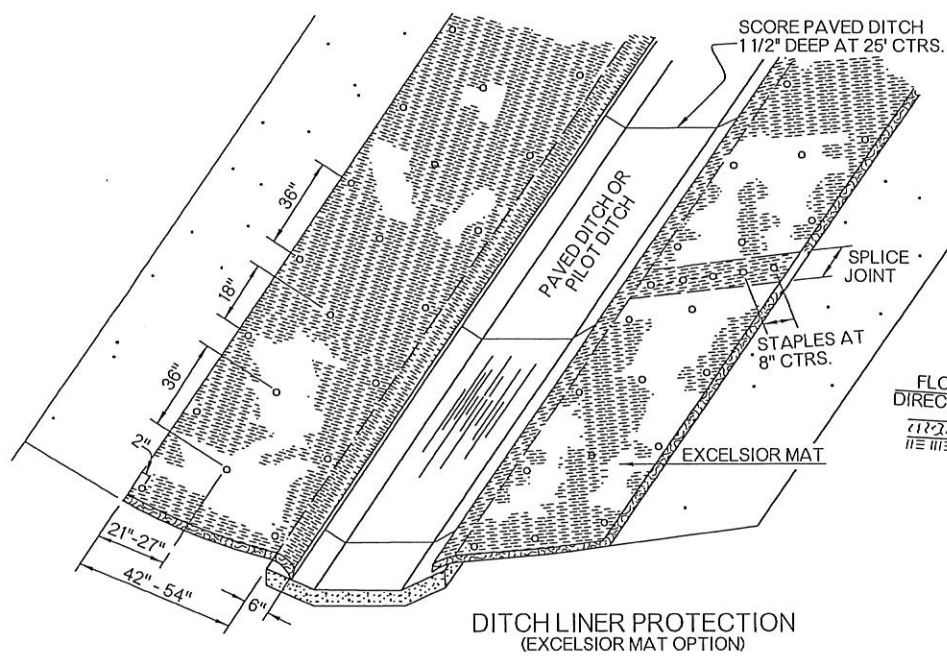
DOUBLE POLE GATE

DATE: MARCH 2022

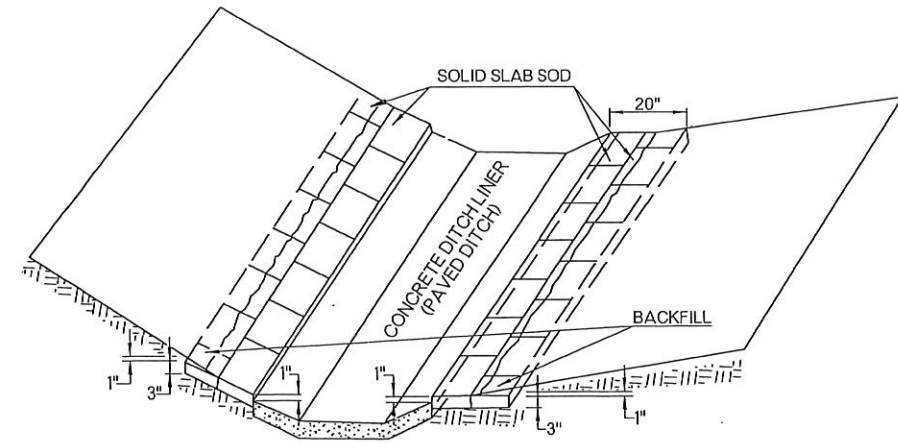
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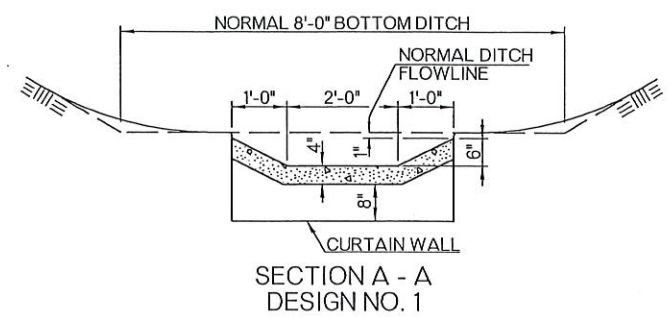
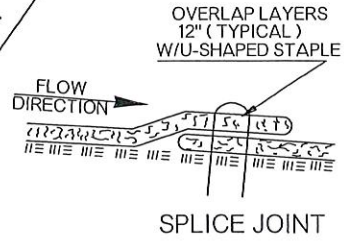
OKLAHOMA DEPARTMENT OF TRANSPORTATION		
STANDARD REVISIONS		
DESCRIPTION	DATE	



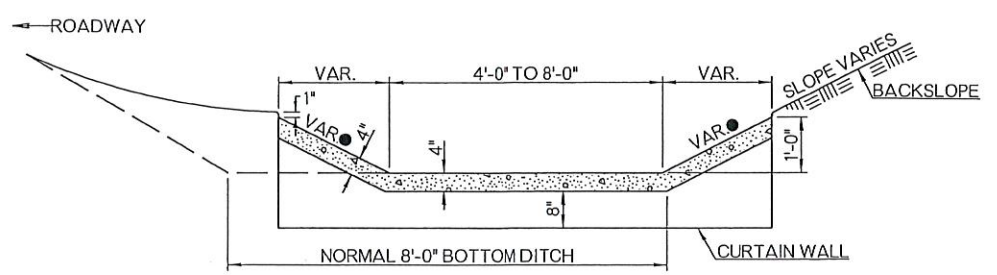
DITCH LINER PROTECTION  
(EXCELSIOR MAT OPTION)



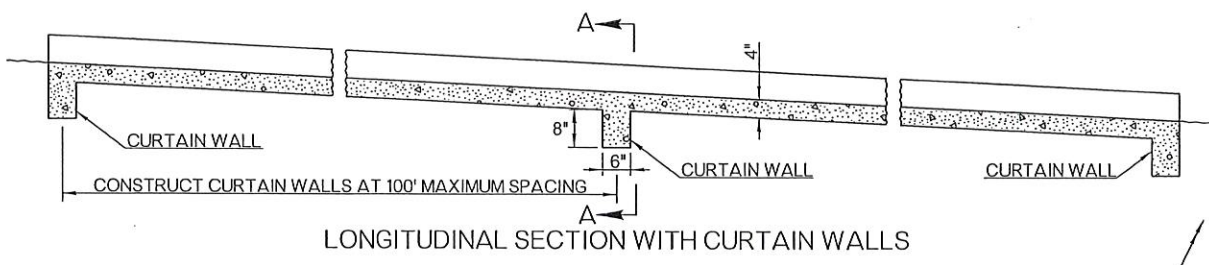
DITCH LINER PROTECTION  
(SOLID SLAB SOD OPTION)



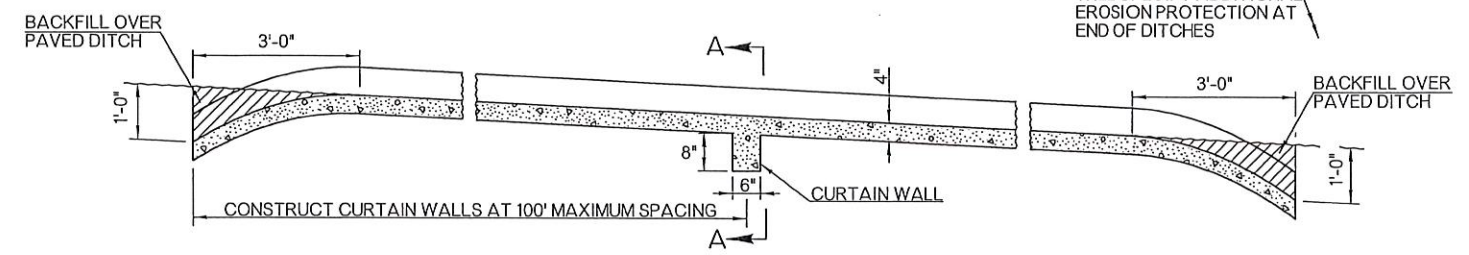
SECTION A - A  
DESIGN NO. 1



SECTION A - A  
DESIGN NO. 2



LONGITUDINAL SECTION WITH CURTAIN WALLS



OPTIONAL LONGITUDINAL SECTION WITH BURIED ENDS  
(BURIED ENDS SHALL NOT BE USED ADJACENT TO DRAINAGE STRUCTURES)

DESIGN NO. 1 - A PAVED PILOT DITCH TO BE PLACED 6" BELOW THE NORMAL FLOWLINE AND IN THE CENTER OF A STANDARD DITCH

DESIGN NO. 2 - A DITCH THAT IS PAVED AND HAVING THE SAME FLOWLINE AS A STANDARD UNPAVED DITCH

QUANTITIES OF CLASS C CONCRETE PER LF OF PAVED DITCH												
QUANTITIES IN CUBIC YARDS												
DESIGN NO. 1						DESIGN NO. 2						
BOTTOM WIDTH	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"		
K 1	.0522	.0645	.0769	.0892	.1016	.1274	.1397	.1521	.1644	.1768	DES. 2A	
K 2	.0586	.0709	.0832	.0955	.1078	.1790	.1913	.2036	.2159	.2282		
● VARIABLE AS SHOWN ON PLANS						K 1	.1045	.1168	.1292	.1415	.1539	DES. 2B
DESIGN 2A = 1:3 SLOPES						K 2	.1357	.1480	.1603	.1726	.1850	
DESIGN 2B = 1:2 SLOPES						K 1	.0923	.1048	.1172	.1295	.1419	DES. 2C
DESIGN 2C = 1:1 SLOPES						K 2	.1105	.1228	.1352	.1476	.1600	
TOTAL CLASS C CONC. = (LENGTH OF PAVED DITCH) (K1) + (NO. OF CURT. WALLS) (K2)												
K1=CU. YDS. OF CONCRETE PER LINEAR FOOT												
K2=CU. YDS. OF CONCRETE PER CURTAIN WALL												

- GENERAL NOTES**
- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
  - ALL COST OF ADDITIONAL BORROW OR EXCAVATION, REQUIRED FOR INSTALLING PAVED DITCH, SHALL BE INCLUDED IN PRICE BID FOR CLASS C CONCRETE.
  - THE DITCH SHALL BE WATERED, AND COMPACTED, BEFORE PLACING CLASS C CONCRETE.
  - DITCH LINER PROTECTION MAY BE EITHER EXCELSIOR MAT, OR SOLID SLAB SOD, AND SHALL BE MEASURED BY THE LINEAR FOOT OF DITCH (PAVED DITCH), IN PLACE.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
509 (D)	CLASS C CONCRETE	CY
229	DITCH LINER PROTECTION	LF

APPROVED BY ROADWAY ENGINEER: *Calbert A.* DATE: *04/16/15*

ROADWAY DESIGN DIVISION STANDARD

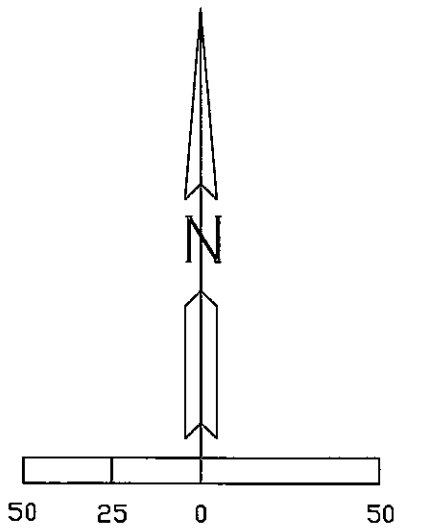
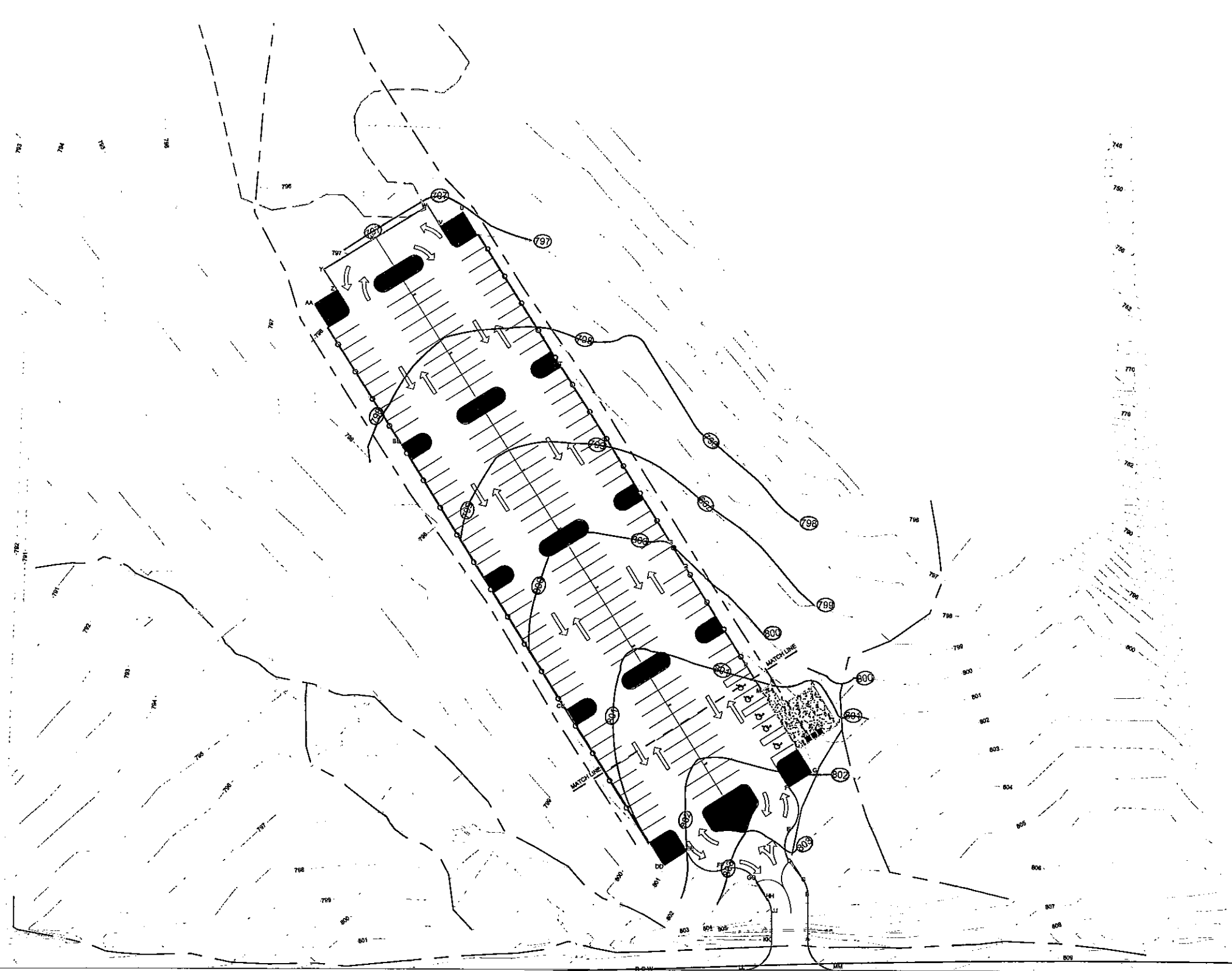
**DOT** PAVED DITCHES AND FLUMES

OKLAHOMA DEPARTMENT OF TRANSPORTATION  
2009 SPECIFICATIONS

DC-3	2
------	---

R-64





GENERAL SCOPE OF WORK: THE WEST PARKING LOT IS A "GREENFIELD" SITE THAT WILL BE CLEARED OF TREES AND GRASSES, RE-GRADED TO SLOPE DRAINAGE TO EACH SIDE OF THE RIDGE IN THE MIDDLE OF THE PARKING LOT, CONCRETE PAVING PLACED, PARKING LOT STRIPED, POST & CABLE FENCING ON EAST AND WEST SIDES AND LIGHTING. A PORT-A-POTTY AREA WILL BE PROVIDED NEAR THE ENTRANCE TO THE TRAIL.

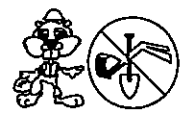
GENERAL NOTE: THIS PROJECT IS CONTRACTED BY THE CITY OF TULSA (DESIGNATED AS OWNER) ON BEHALF AND FOR THE BENEFIT OF RIVER PARKS AUTHORITY WHO OPERATES AND MAINTAINS THE TURKEY MOUNTAIN URBAN WILDLIFE AREA.



CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- POST & CABLE
- DRAINAGE AREAS



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TURKEY MOUNTAIN PARKING LOTS WEST PL			
SITE PLAN			
SCALE	1"=50'	DRAWING NUMBER	G-001
DRAWN	WBS	FILE NAME	DA-23-753
CHECKED	KH	SHEET NUMBER	1
DATE			
REV	DESCRIPTION	DATE	APPROVED

**GENERAL CONSTRUCTION NOTES**


1. **DRAWING SCALE.** ALL SCALES ON THE DRAWINGS HAVE BEEN PREPARED FOR REPRODUCTION ON 11in. x 17in. PAPER. SCALING IS NOT RECOMMENDED ON THE ALTERNATE SIZED ENLARGED DRAWINGS. WHERE APPLICABLE BAR SCALES SHALL SUPERCEDE USE OF NUMERIC SCALE REFERENCES. PDF COPIES OF DRAWINGS ARE AVAILABLE TO BIDDERS/SELECTED CONTRACTOR.
2. **EXISTING UTILITIES.** IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL STRUCTURES, UNDERGROUND PIPELINES, ELECTRIC AND TELEPHONE OR FIBER OPTIC CONDUITS, EITHER SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION, AND OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO THESE FACILITIES. ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN KIND/UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL NOTIFY OKIE ONE-CALL (1-800-522-6543) AT LEAST 48 HRS PRIOR TO ANY EXCAVATION. IT IS SPECIFICALLY NOTED THAT THE SOUTH PARKING LOT HAS A HIGH VOLTAGE POWER LINE RUNNING THE LENGTH OF THE PARKING LOT WITH ONE POWER POLE IN THE CENTER OF THE PARKING LOT. THIS UTILITY SHALL BE PROTECTED FROM ANY CONSTRUCTION INTERFERENCE.
3. **LINES AND GRADES.** ALL WORK SHALL BE PERFORMED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. ALL CONSTRUCTION SURVEY, LAYOUT, AND MEASUREMENT WORK SHALL BE PERFORMED BY THE CONTRACTOR AS A PART OF THE WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL VERIFY EXISTING AND FINISHED GRADES AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLANS PRIOR TO CONSTRUCTION.
4. **DAMAGE TO PUBLIC OR PRIVATE PROPERTY.** THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC AND PRIVATE PROPERTY AFFECTED BY HIS CONSTRUCTION OPERATIONS. RESTORATION OF ALL DAMAGED PROPERTY, BOTH PUBLIC AND PRIVATE, TO ITS ORIGINAL CONDITION SHALL BE PERFORMED BY AND AT THE EXPENSE OF THE CONTRACTOR.
5. **PROTECTION OF OPEN EXCAVATION AND OBSTRUCTIONS.** ALL OPEN TRENCHES AND OTHER EXCAVATIONS SHALL BE PROTECTED WITH SUITABLE BARRIERS, SIGNS, AND LIGHTS IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE REGULATIONS. OBSTRUCTIONS SUCH AS MATERIAL PILES AND EQUIPMENT, SHALL BE PROTECTED WITH SIMILAR SIGNS AND LIGHTS. ALL BARRICADES, SIGNS, LIGHTS, AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN A MANNER ACCEPTABLE TO THE ENGINEER.
6. **PROJECT RESTORATION.** THE CONTRACTOR SHALL REMOVE AND REPLACE OR REPAIR IN LIKE KIND, TO THE SATISFACTION OF THE OWNER, OF ALL OBSTRUCTIONS AFFECTED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LANDSCAPE SPRINKLERS AND LANDSCAPING OR OTHER PHYSICAL FEATURES SUCH AS LIGHTS, AND PLANTINGS, GRAVEL DRIVEWAYS, FENCES, RETAINING WALLS, SIGNS, OUT-BUILDINGS, AND OTHER OBSTRUCTIONS CAUSED BY THE PROSECUTION OF THE WORK. REPAIR, REPLACEMENT, OR RESTORATION SHALL CONFORM WITH ALL APPROPRIATE AND APPLICABLE CODES. THE WORK ALSO INCLUDES SALVAGING OF TOPSOIL FOR WHICH NO SEPARATE MEASUREMENT FOR PAYMENT WILL BE MADE. ALL CLEARING AND GRUBBING MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. **DUST AND DEBRIS CONTROL.** THE CONTRACTOR SHALL MINIMIZE DUST CONDITIONS AT THE WORK SITE. THE SITE SHALL BE WATERED DURING CONSTRUCTION AS REQUIRED TO MINIMIZE DUST. THE CONTRACTOR SHALL INSPECT THE WORK SITE AND REMOVE ALL TRASH AND CONSTRUCTION DEBRIS, ON A DAILY BASIS, LEAVING THE AREA IN A NEAT, ORDERLY, AND SAFE CONDITION.
8. **SOIL BORINGS.** SOIL BORINGS HAVE BEEN NOT BEEN PERFORMED IN ANY OF THE AREAS WHERE EXCAVATION IS ANTICIPATED ON THE PROJECT. A COPY OF THE NRCS WEB SOIL SURVEY FOR THIS PROJECT SITE IS AVAILABLE TO THE BIDDERS/CONTRACTOR. THE BIDDERS/CONTRACTOR MAY PERFORM ANY ADDITIONAL BORINGS OR TESTING PRIOR TO BIDDING OR DURING CONSTRUCTION FOR PURPOSES OF EASE OF CONSTRUCTION. NO CHANGED CONDITIONS CLAIM WILL BE PERMITTED ONCE CONSTRUCTION BEGINS DUE TO SUB-SURFACE CONDITIONS.
9. **ROCK EXCAVATION.** NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL EFFORTS REQUIRED FOR THE PREPARATION AND REMOVAL OF ROCK, BOULDERS, BURIED CONCRETE, OR CONSTRUCTION DEMOLITION ENCOUNTERED DURING EXCAVATIONS AS REQUIRED TO COMPLETE THE PROJECT.
10. **EXCESS MATERIAL DISPOSAL.** SPOIL OF EXCESS MATERIAL FROM EXCAVATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.

**GENERAL CONSTRUCTION NOTES-CONTINUED**

11. **BLASTING.** BLASTING WILL NOT BE ALLOWED ON THIS PROJECT.
12. **EROSION CONTROL STANDARDS.** STANDARDS FOR EROSION CONTROL ARE AVAILABLE IN THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) AND ANY STANDARD DETAILS, SUPPLEMENTED BY THE CITY OF TULSA STANDARDS OR, ODOT STANDARDS AVAILABLE AT THE ODOT WEB SITE, WWW.OKLADOT.STATE.OK.US/ROADWAY/STANDARDS.HTM. THE CONTRACTOR SHALL CONFORM TO ALL OF THE SWP3 REQUIREMENTS, INCLUDING NECESSARY REPORTING, AND COMPLY WITH ALL CONDITIONS IN THE OKR10 CONSTRUCTION PERMIT FROM ODEQ.
13. **OWNER INSPECTION RIGHTS.** ANY CONSTRUCTION PERFORMED WITHOUT THE KNOWLEDGE OF THE OWNER'S ON SITE REPRESENTATIVE IS LIABLE FOR REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
14. **QUESTIONS DURING CONSTRUCTION.** ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF THE PLANS SHALL BE RAISED PRIOR TO THE COMMENCEMENT OF THE WORK IN QUESTION. THE ENGINEER WILL PROVIDE TECHNICAL CLARIFICATIONS DURING CONSTRUCTION IF NEEDED, BUT THIS WILL NOT INVOKE A CHANGE IN CONTRACT PRICE OR SCHEDULE.
15. **VARIATIONS FROM PLANS.** THE ENGINEER AND THE OWNER MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS USING A FIELD CONSTRUCTION CLARIFICATION (FCC) FORM OR A REQUEST FOR INFORMATION (RFI) FORM AND TRANSMITTED TO THE ENGINEER.
16. **CONTRACTORS OBLIGATION.** ANY INSPECTION BY THE OWNER OR THE OWNER'S REPRESENTATIVE, SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
17. **DEFECTIVE WORKMANSHIP.** ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THESE PLANS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
18. **SURVEY CONTROL.** CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ESTABLISHED CONTROL POINTS. RESETING WILL BE DONE AT CONTRACTOR'S EXPENSE. THERE IS A DEFINED BENCH MARK FOR THIS PROJECT. ALL SURVEYING TO OBTAIN THE GRADES SHOWN ON THE DRAWINGS IS THE RESPONSIBILITY OF THE CONTRACTOR.
19. **OFF SITE REPAIRS.** PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK, THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-PROJECT) ROADWAYS USED OR DAMAGED DURING THE COURSE OF CONSTRUCTION.
20. **ADDITIONAL TEMPORARY EASEMENT.** CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS FOR ACCESS LOCATIONS TO EASEMENTS AND ANY ADDITIONAL WORKING AREAS NOT SPECIFICALLY PROVIDED FOR.
21. **MANHOLES.** CONTRACTOR TO ADJUST ALL MANHOLES TO GRADE TO ACCEPTANCE OF ENGINEER. (NOT APPLICABLE)
22. IN ANY LOCATION IN THE CONTRACT DOCUMENTS (PLANS OR SPECIFICATIONS) REFERENCES TO "ENGINEER" GENERALLY REFER TO THE CIVIL DESIGN ENGINEER, HISINC, L.L.C. WHO MAY ASSIST THE ARCHITECT OR THE CITY OF TULSA WITH THE CONSTRUCTION ENGINEERING RESPONSIBILITIES, AND MAY ASSIST THE CITY OF TULSA AND/OR RIVER PARKS AUTHORITY WITH BIDDING AND CONSTRUCTION ENGINEERING SERVICES AND ACTING AS THE RESIDENT PROJECT REPRESENTATIVE IN CONJUNCTION WITH CITY OF TULSA AND/OR RIVER PARKS AUTHORITY'S SUPERINTENDENT. THE CONSTRUCTION ENGINEERING SERVICES WILL INCLUDE PROVIDING BIDDING SERVICES FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, COORDINATION OF ADVERTISING, COORDINATION OF MANDATORY PRE-BID CONFERENCE, RECEIPT AND RESPONSE TO BIDDER'S QUESTIONS THROUGH ISSUANCE OF ADDENDUM, ASSISTANCE IN RECEIPT OF PROPOSALS, REVIEW OF PROPOSALS FOR CONFORMANCE WITH THE BID DOCUMENTS, REFERENCE CONSULTATIONS, ETC. THE CONSTRUCTION ENGINEERING SERVICES WILL PROVIDE CONTRACT ADMINISTRATION SERVICES FOR THE PROJECT, INCLUDING, BUT NOT LIMITED TO, COORDINATION OF PRE-CONSTRUCTION MEETING, MONTHLY PAY ESTIMATE MEETINGS, MONTHLY PROGRESS MEETINGS, PERIODIC OBSERVATIONS OF CONSTRUCTION ACTIVITIES, AND REVIEW OF PROJECT SCHEDULE, ETC.
23. TEMPORARY CONSTRUCTION ACCESS FROM S. 61 W. AVE. TO THE PROJECT AREAS (NORTH AND SOUTH PARKING LOT SITES AND ANY REQUIRED STAGING AND MATERIAL STORAGE AREAS WILL BE COORDINATED WITH THE RIVER PARKS AUTHORITY SUPERINTENDENT DURING THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL PROVIDE A PROPOSED PLAN OF TEMPORARY ACCESS AND DESIRED STAGING AND MATERIAL STORAGE AREAS AND THOSE PLANS SHALL BE SUBMITTED DURING THE PRE-CONSTRUCTION MEETING FOR REVIEW AND CONSIDERATION.

**GENERAL NOTE: THIS PROJECT IS CONTRACTED BY THE CITY OF TULSA (DESIGNATED AS OWNER) ON BEHALF AND FOR THE BENEFIT OF RIVER PARKS AUTHORITY WHO OPERATES AND MAINTAINS THE TURKEY MOUNTAIN URBAN WILDLIFE AREA.**

**CITY OF TULSA CAPITAL IMPROVEMENT PROJECT**

 Hydropower International Services  
Inter-National Consultancy, L.L.C.

**TURKEY MOUNTAIN PARKING WEST AND EAST PARKING LOTS**

**CIVIL CONSTRUCTION NOTES SHEET 1**

SCALE	N/A	DRAWING NUMBER	G-003
DRAWN	JM	FILE NAME	DS-23-753
CHECKED	WBS	SHEET NUMBER	3
SUBMITTED	WBS		
APPROVED	WBS		



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NOV	DESCRIPTION	DRAWN	CHKD	APPROVED

**PROTECTION OF WETLANDS AND ARCHEOLOGICAL SITES NOTES:**

THE CONTRACTOR SHALL ORGANIZE HIS PROJECT SITE, EXCAVATION, MATERIAL STORAGE, ACCESS ROUTES AND TRAILS, AND OFFSITE FACILITIES SO AS TO MINIMIZE EFFECT UPON AND DISTURBANCE TO ANY SUCH SITES. WHILE THERE ARE NO DESIGNATED WETLAND AREAS ON EITHER LOCATON, THIS IS AN URBAN WILDLIFE AREA AND THE INTENT IS TO AVOID ANY DAMAGE TO THE EXISTING NATURAL ENVIRONMENT OTHER THAN THE CONSTRUCTION OF THE PARKING LOTS.

OFFSITE FACILITIES (WHICH INCLUDE, BUT ARE NOT RESTRICTED TO, PLANT SITES, BORROW PITS, WASTE AREAS, HAUL ROADS, STORAGE SITES, PARKING AREAS, AND SIMILAR AREAS ASSOCIATED WITH HIS OPERATIONS) SHALL NOT BE CONSTRUCTED OR LOCATED IN AREAS DESIGNATED AS WETLANDS BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) WITHOUT WRITTEN APPROVAL FROM THE USACE. THE CONTRACTOR SHALL CONTACT THE REGULATORY BRANCH OF THE USACE AT 918-689-7400 FOR A DETERMINATION OF WETLANDS AND APPROVAL OF ANY INTENDED LOCATIONS FOR OFFSITE FACILITIES. IF SUCH OPERATIONS IN WETLANDS ARE REQUIRED, THE CONTRACTOR SHALL PRESENT HIS ENTIRE PLAN FOR SUCH WORK AND SITE RESTORATION TO THE PROJECT ENGINEER AND, IF REQUIRED, TO USACE FOR APPROVAL. A COPY OF THE APPROVAL SHALL BE FORWARDED TO THE PROJECT ENGINEER PRIOR TO THE BEGINNING OF OFFSITE EXCAVATION. THE CONTRACTOR IS TO ADHERE TO THE REQUIREMENTS OF PERMITS WHICH ARE INCLUDED AS A PART OF THE CONTRACT.

THE PROPOSED PROJECT SITE HAS NOT BEEN EXAMINED FOR ITEMS OF ARCHAEOLOGICAL SIGNIFICANCE. AS APPLICABLE, THE CONTRACTOR SHALL EXAMINE INTENDED LOCATIONS FOR OFFSITE FACILITIES, WHETHER IN WETLANDS OR NOT, FOR ITEMS OF ARCHAEOLOGICAL IMPORT. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF THE INTENDED LOCATION (LEGAL DESCRIPTION OF THE QUARTER-SECTION) WHO WILL EXAMINE THE SITE AND CONFER WITH THE PROPER AUTHORITIES FOR THIS DETERMINATION. THE CONTRACTOR SHALL ALLOW UP TO 10 DAYS FOR THE ARCHAEOLOGICAL INVESTIGATION. IF A SITE IS DETERMINED TO BE OF ARCHAEOLOGICAL SIGNIFICANCE, REQUIRING FURTHER INVESTIGATION, THE CONTRACTOR MAY POSTPONE THE EXCAVATION UNTIL THE REMOVAL OF THE ARTIFACTS IS COMPLETE, MAY OBTAIN AN ALTERNATE LOCATION OF THE SOURCE OF BORROW MATERIAL, OR WORK IN A SEPARATE PORTION OF THE PROJECT AS REQUIRED.

IF, DURING ANY EXCAVATION ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED THE CONTRACTOR SHALL IMMEDIATELY CEASE THE EXCAVATION OPERATION AND NOTIFY THE ENGINEER WHO WILL CONTACT THE PROPER AUTHORITIES FOR AN EVALUATION. DEPENDING ON THE SIGNIFICANCE OF THE ARCHAEOLOGICAL FIND, THE CONTRACTOR MAY EXPERIENCE ONLY A SHORT DELAY, WHILE IN OTHER CASES THE TIME INVOLVED MAY BE SUCH THAT THE CONTRACTOR MAY WANT TO CONSIDER AN ALTERNATE SOURCE OF MATERIAL. IN SUCH CASES, WITH APPROVAL OF THE ARCHAEOLOGICAL AUTHORITIES, THE CONTRACTOR MAY BE ALLOWED TO COVER OVER (RE-BURY) THE ARCHAEOLOGICAL MATERIALS AND MOVE TO ANOTHER LOCATION.

WHEN ARCHAEOLOGICAL MATERIALS ARE REMOVED FROM THE SITE, THE REMOVAL MUST BE DONE IN ACCORDANCE WITH THE NATIONAL HISTORIC PRESERVATION ACT AND THE ARCHAEOLOGICAL RESOURCES PROTECTION ACT OF 1979, THE OKLAHOMA STATE REGISTER OF HISTORIC PLACES ACT, THE OKLAHOMA VIOLATING SEPULCHRE ACT, AND THE REMAINS OF THE DEAD ACT (REFER TO OKLAHOMA STATUTE 21, SEC. 1168 AND 53, SEC. 361, OS 21, CHAPTER 47 SECTION 1168).

WHEN THE CONTRACTOR'S CONSTRUCTION OPERATION IS DELAYED DUE TO ARCHAEOLOGICAL FINDS, THE OWNER WILL EXTEND THE PROJECT DURATION COMMENSURATE WITH THE AMOUNT OF DELAY INVOLVING ITEMS ON THE CRITICAL PATH. MONETARY COMPENSATION WILL NOT BE ALLOWED FOR THESE PURPOSES.

NO ENDANGERED SPECIES HAVE BEEN OBSERVED UPON THE PROPOSED CONSTRUCTION SITE HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF AND COMPLY WITH THE ENDANGERED SPECIES ACT. UPON OBSERVING SPECIES, SUCH AS THE AMERICAN BURYING BEETLE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER. CARE MUST BE TAKEN IN HANDLING DEAD OR INJURED SPECIES IN ORDER TO PRESERVE BIOLOGICAL MATERIALS FOR LATER ANALYSIS. THE CONTRACTOR MUST ENSURE THAT SUCH EVIDENCE IS NOT UNNECESSARILY DISTURBED.

THE CONTRACTOR SHALL:

- A) COMPLY WITH AND UPDATE ON A WEEKLY BASIS AS THE WORK PROCEEDS, THE STORM WATER POLLUTION PREVENTION PLAN.
- B) TAKE PRECAUTIONS IN HANDLING AND/OR STORAGE OF FUELS OR OTHER HAZARDOUS MATERIALS TO PREVENT DISCHARGE OR SPILLAGE RESULTING IN WATER QUALITY DEGRADATION.
- C) PERFORM EXCAVATION AND GRADING OPERATIONS IN A MANNER TO CONTROL OR ELIMINATE SEDIMENT DISTURBANCE AND SOIL EROSION.
- D) IMMEDIATELY SEED, REPLANT, SOD OR PROVIDE EQUIVALENT PROTECTION AGAINST EROSION THOSE AREAS DISTURBED BY THE CONSTRUCTION.

**DEMOLITION, RESTORATION, AND MISCELLANEOUS NOTES:**

THE EXISTING UTILITIES ARE LOCATED AS THEY ARE SHOWN ON THE DRAWINGS IN THE PHOTOGRAPHS.

CONTRACTOR SHALL FIELD SCAN FOR UNDERGROUND UTILITIES AND VERIFY THE SIZE, LOCATION, AND ELEVATION OF THE EXISTING UTILITIES PRIOR TO STARTING EXCAVATION OR DEMOLITION.

THE SPECIFIC LOCATION AND ELEVATION OF ABANDONED UTILITIES AND LIMITS OF THE REMOVED UTILITIES SHALL BE RECORDED FOR THE AS-BUILT DRAWINGS.

THE CONTRACTOR SHALL COORDINATE THE DISCONNECTION AND REMOVAL OF THE EXISTING UTILITIES WITH THE UTILITY PLANS AND WITH APPROPRIATE PUBLIC OR PRIVATE UTILITY COMPANIES.

ALL EXISTING UTILITIES ARE TO REMAIN IN-PLACE AND IN-SERVICE UNLESS NOTED OTHERWISE.

REMOVE EXISTING FOUNDATIONS, WALLS, SLABS, PIERS, MANHOLES, AND FOOTINGS, WHERE SPECIFIED OR REQUIRED FOR DEMOLITION, TO A MINIMUM DEPTH OF 3 FEET BELOW PROPOSED FINISH GRADE.

ALL DISTURBED AND/OR REGRADED AREAS SHALL BE SEEDED OR SLAB-SODDED AS FOLLOWS:

- ALL DISTURBED, EXCITED, TRENCHED, GRADED, OR REGRADED AREAS WITHIN 10 FEET OF A NEW STRUCTURE OR NEW PARKING LOT OR ROADWAY OR TRAIL REMEDIATION SHALL BE SLAB-SODDED. ANY RUTS OR OTHER DISRUPTIONS IN THE FINISHED GRADING WILL BE CORRECTED BY THE CONTRACTOR AND RE-SODDING WILL BE PERFORMED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL OTHER DISTURBED AREAS SHALL BE SEEDED, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR AT THE INSTRUCTION OF THE ENGINEER. THE CONTRACTOR MAY ELECT TO PLACE SOLID SLAB SOD IN LIEU OF SEEDING, BUT PAYMENT WILL STILL BE MADE IN THESE DESIGNATED AREAS BASED ON THE PRICE OF SEEDING. ALL NECESSARY WATERING WILL BE PERFORMED BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER UNTIL SUCH TIME AS THE SEEDING IS ESTABLISHED; WHICH MAY REQUIRE ADDITIONAL SEEDING. ANY RUTS OR OTHER DISRUPTIONS IN THE FINISHED GRADING WILL BE CORRECTED BY THE CONTRACTOR AND RE-SEEDING WILL BE PERFORMED AT NO ADDITIONAL EXPENSE TO THE OWNER

ANY BACKFILL SHALL BE OFF-SITE EXCAVATED MATERIAL, APPROVED BY OWNER'S REPRESENTATIVE IN ADVANCE OF HAUL OR PLACEMENT.

ALL BACKFILLED AND REGRADED AREAS SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL BEFORE BEING SODDED OR SEEDED. THERE SHALL BE NO FOREIGN MATERIALS, ROCKS, CONSTRUCTION DEBRIS, TRASH, ETC. IN THE TOPSOIL.

REFER TO SHEET G003 AND G004 FOR GENERAL NOTES, ABBREVIATIONS, AND LEGEND INFORMATION.

DEMOLITION IS MINIMAL AND THE DRAWINGS REFLECT MINIMUM DEMO. FOR CONTRACT BUT MAY NOT REFLECT ALL OF WORK, CONTRACTOR TO COMPLETE AS NECESSARY FOR SCOPE OF WORK AS DIRECTED BY ENGINEER.

THE CONTRACTOR IS REQUIRED TO PERFORM A POST-CONSTRUCTION SURVEY TO DOCUMENT THE FINAL CHANGES BASED ON CONSTRUCTED CONDITIONS. THIS SURVEY WILL BE USED FOR FINAL QUANTITY DETERMINATION WHEN COMPARED WITH THE PRE-EXISTING TOPOGRAPHIC CONTOURS SHOWN ON THE DRAWINGS.

**APPROXIMATE UNIT PRICE BID QUANTITIES:**

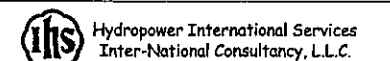
- WEST PL EXCAVATION UNCLASSIFIED (CUT)- 300 CY
- WEST PL EXCAVATION UNCLASSIFIED (FILL)- 320 CY
- EAST PL EXCAVATION UNCLASSIFIED (CUT)- 300 CY
- EAST PL EXCAVATION UNCLASSIFIED (FILL)- 300 CY
- TRANSPORT AND DISPOSAL OF EXCESS MATERIAL - 250 CY
- TYPE A AGGREGATE BASE GRAVEL FOR WEST PL - 790 CY
- TYPE A AGGREGATE BASE GRAVEL FOR EAST PL - 605 CY
- REINFORCED CONCRETE FOR WEST PL - 1220 CY
- REINFORCED CONCRETE FOR EAST PL - 910 CY
- PAVEMENT STRIPING WEST PL - 3200 LF PLUS ARROWS & HANDICAP
- PAVEMENT STRIPING EAST PL - 1400 LF PLUS ARROWS & HANDICAP
- POST & CABLE FENCE WEST PL - 830 LF
- POST & CABLE FENCE EAST PL - 570 LF
- DOUBLE GATE WEST PL - 1 EACH
- DOUBLE GATE EAST PL - 1 EACH
- SOD AND SEED WEST PL - 5265 SY
- SOD AND SEED EAST PL - 2670 SY
- CULVERT WEST PL - 1 - 18-IN. DIA - 39 LF
- CULVERT EAST PL - 1 - 12-IN. DIA - 28 LF
- CULVERT EAST PL - 1 - 18-IN. DIA - 39 LF
- EAST PL MOVE LARGE STONES - 70

**LUMP SUM BID ITEMS:**

- MOBILIZATION - LUMP SUM - 1 EA
- CONSTRUCTION STAKING LEVEL II - LUMP SUM - 1 EA
- DE-MOBILIZATION - LUMP SUM - 1 EA
- AS-BUILT SURVEY - LUMP SUM - 1 EA
- CONTRACTOR QUALITY CONTROL - LUMP SUM - 1 EA
- EROSION CONTROL, MONITORING AND REPORTING - LUMP SUM - 1 EA
- OWNER ALLOWANCE - LUMP SUM - 1 EA
- TESTING SERVICES ALLOWANCE - LUMP SUM - 1 EA

GENERAL NOTE: THIS PROJECT IS CONTRACTED BY THE CITY OF TULSA (DESIGNATED AS OWNER) ON BEHALF AND FOR THE BENEFIT OF RIVER PARKS AUTHORITY WHO OPERATES AND MAINTAINS THE TURKEY MOUNTAIN URBAN WILDLIFE AREA.

CITY OF TULSA CAPITAL IMPROVEMENT PROJECT



TURKEY MOUNTAIN PARKING WEST AND EAST PARKING LOTS

CIVIL CONSTRUCTION NOTES SHEET 2

SCALE	N/A	DRAWING NUMBER	
DESIGN	JM		
CHECKED	WBS		
DATE	WBS	FILE NAME	
APPROVED	WBS	DS-23--753	
			SHEET NUMBER 4

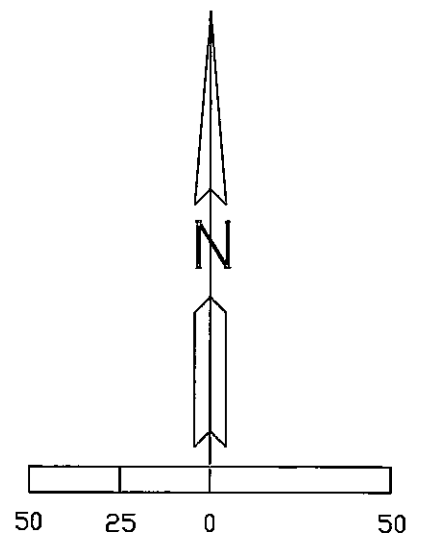
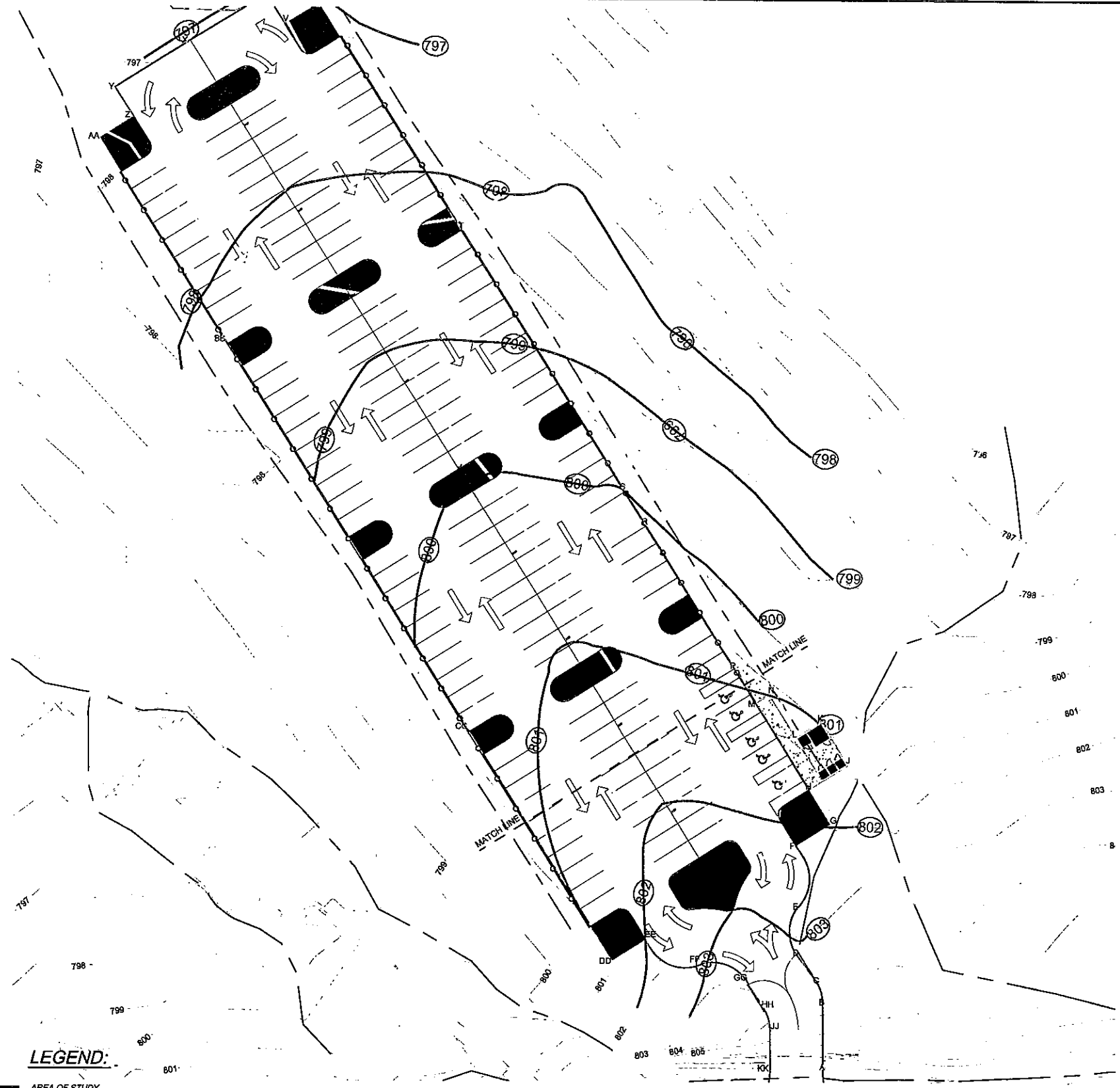
REV	DESCRIPTION	DATE	BY	APPROVED



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1-800-522-6543  
Oklahoma One-Call System, Inc.







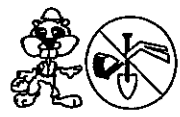
**GEOMETRIC COORDINATE TABLE:**

TURKEY MOUNTAIN WEST PARKING LOT  
GEOMETRIC STATE PLANE COORDINATES

COORD. LABEL	EASTING	NORTHING
A	2558478.64 E	397517.73 N
B	2558478.63 E	397550.24 N
C	2558475.74 E	397560.59 N
D	2558465.78 E	397575.93 N
E	2558465.79 E	397596.83 N
F	2558465.52 E	397627.75 N
G	2558482.50 E	397638.36 N
H	2558471.90 E	397655.31 N
J	2558491.42 E	397667.50 N
K	2558478.17 E	397688.70 N
L	2558465.45 E	397680.76 N
M	2558445.41 E	397697.72 N
N	2558452.17 E	397702.00 N
P	2558434.79 E	397714.71 N
R	2558390.79 E	397785.09 N
S	2558380.16 E	397802.09 N
T	2558299.17 E	397931.73 N
U	2558228.63 E	398044.61 N
V	2558211.68 E	398034.02 N
W	2558202.70 E	398048.40 N
X	2551865.40 E	398025.06 N
Y	2558128.10 E	398001.76 N
Z	2558137.08 E	397987.40 N
AA	2558120.13 E	397976.80 N
BB	2558183.80 E	397874.92 N
CC	2558303.52 E	397683.34 N
DD	2558374.01 E	397570.56 N
EE	2558390.96 E	397681.15 N
FF	2558419.41 E	397569.61 N
GG	2558441.36 E	397560.85 N
HH	2558449.75 E	397547.43 N
JJ	2558452.76 E	397536.84 N
KK	2558452.79 E	397516.02 N
LL	2558432.80 E	397496.03 N
MM	2558496.78 E	397496.03 N

**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



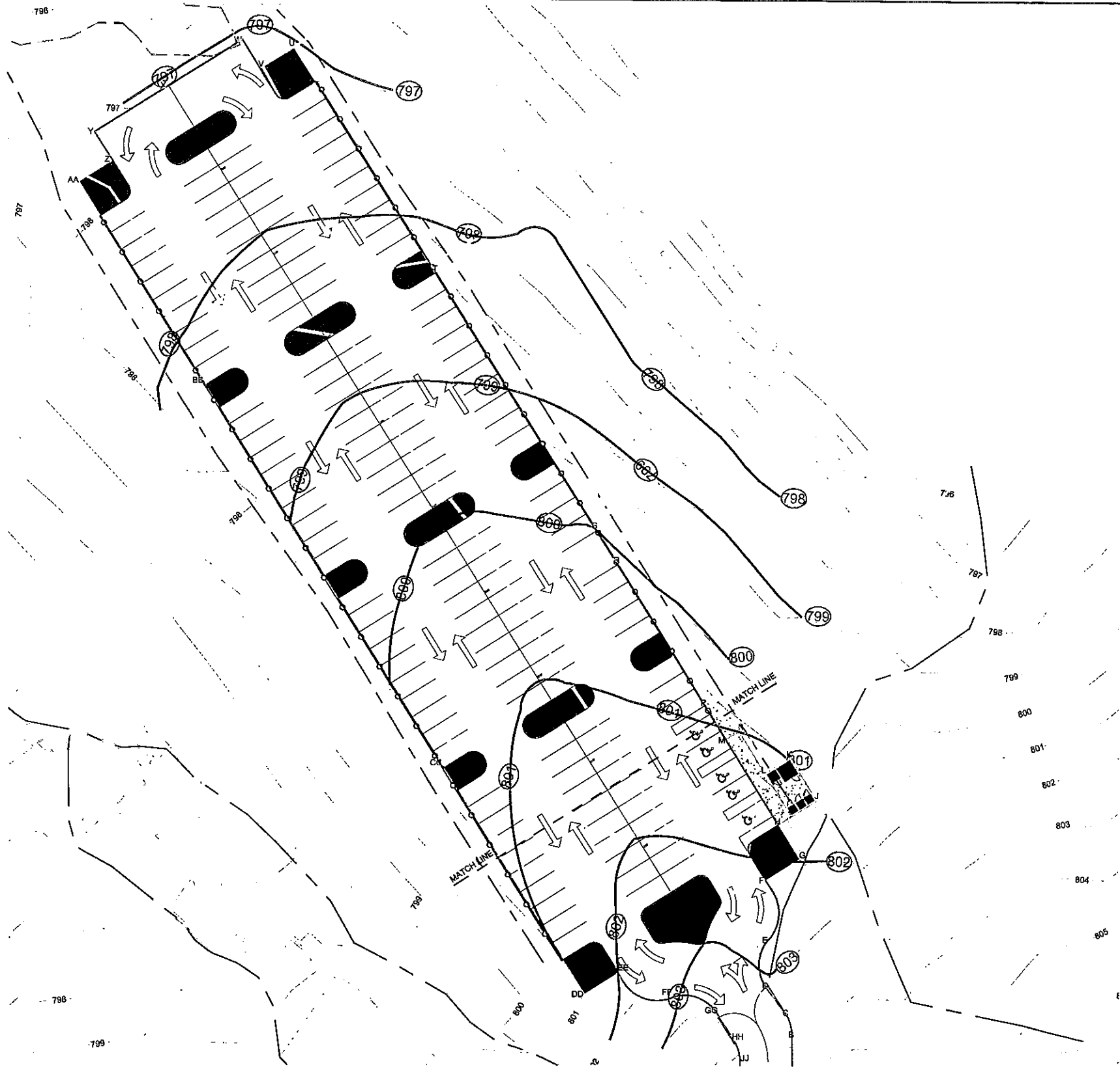
48 HOURS BEFORE YOU DIG...CALL DKIE  
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Oklahoma One-Call System, Inc.










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Inter-National Consultancy, L.L.C.



TURKEY MOUNTAIN PARKING LOTS WEST PL			
PROJECT GEOMETRIC LAYOUT			
SCALE	N.T.S.	DRAWING NUMBER C-001	
DATE		FILE NAME	SHEET NUMBER
DRAWN BY		DA-23-753	7
CHECKED BY			
APPROVED BY			



**LEGEND:**

-  AREA OF STUDY
-  EXISTING CONTOURS MAJOR
-  EXISTING CONTOURS MINOR
-  TRIBUTARY CL
-  PROJECT CONTOURS MAJOR
-  PROJECT CONTOURS MINOR
-  DRAINAGE AREAS



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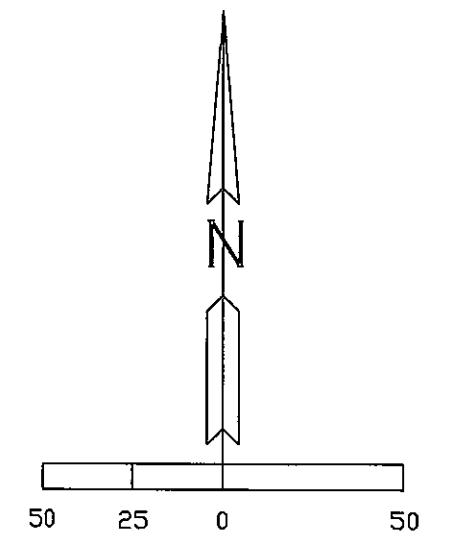
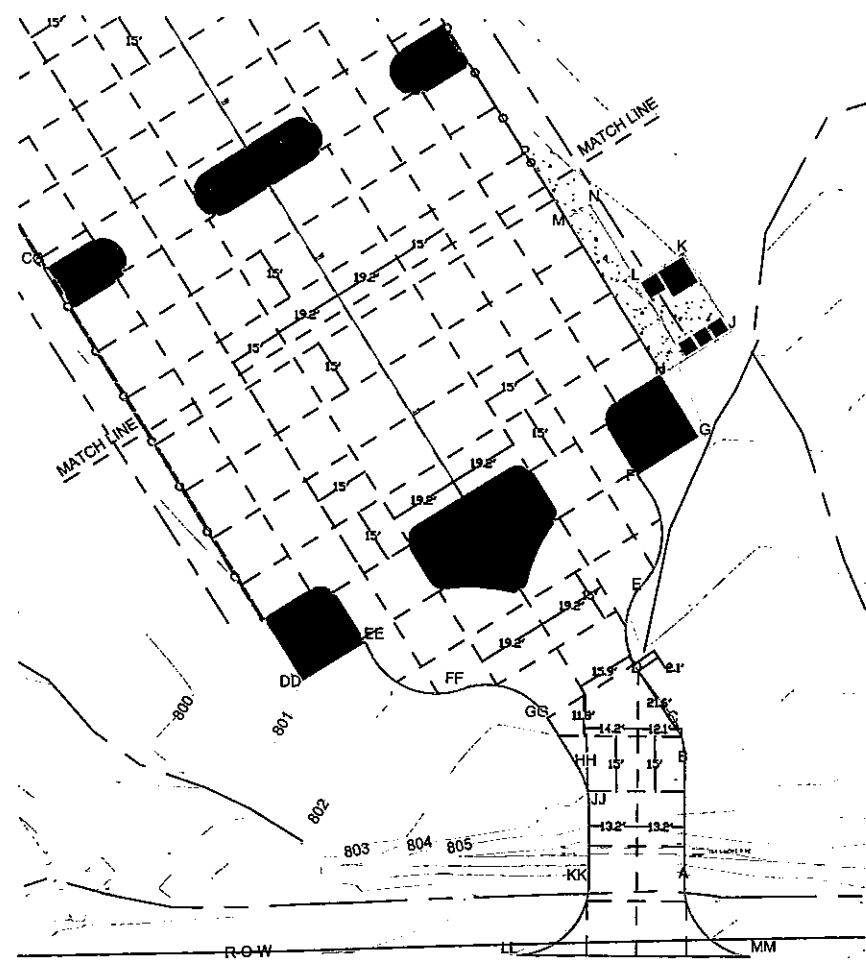
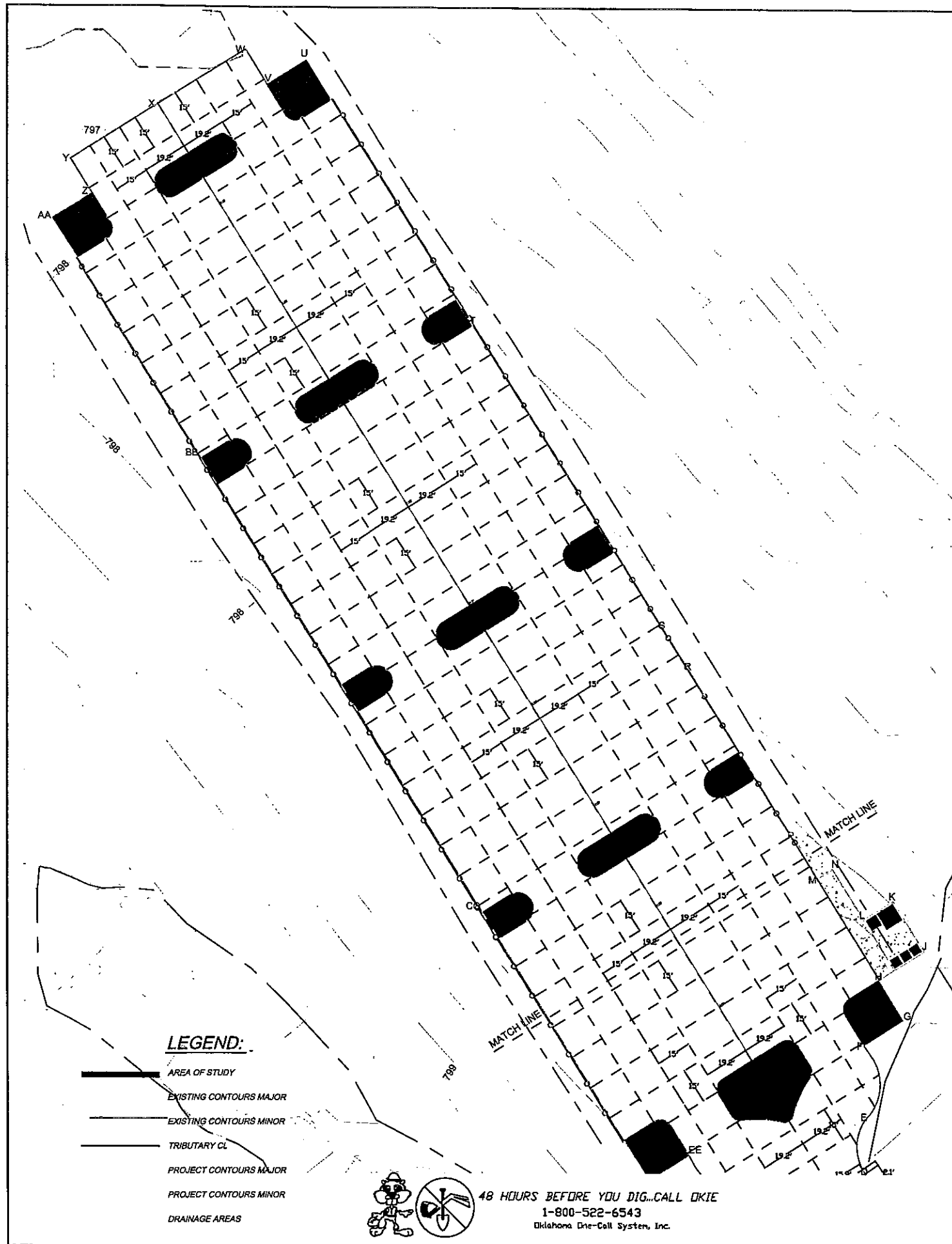
*Hydropower International Services  
 Inter-National Consultancy, L.L.C.*



**TURKEY MOUNTAIN PARKING LOTS  
 WEST PL**

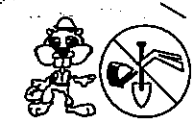
**GRADING PLAN**

SCALE		N.T.S.		DRAWING NUMBER	
SHEET				C-003	
CHECKED				FILE NAME	
SUBMITTED				DA-23-753	
REV	DESCRIPTION	DATE	APPROVED	SHEET NUMBER	9



**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- DRAINAGE AREAS



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 1-800-522-6543  
 Oklahoma One-Call System, Inc.

**GENERAL NOTES:**

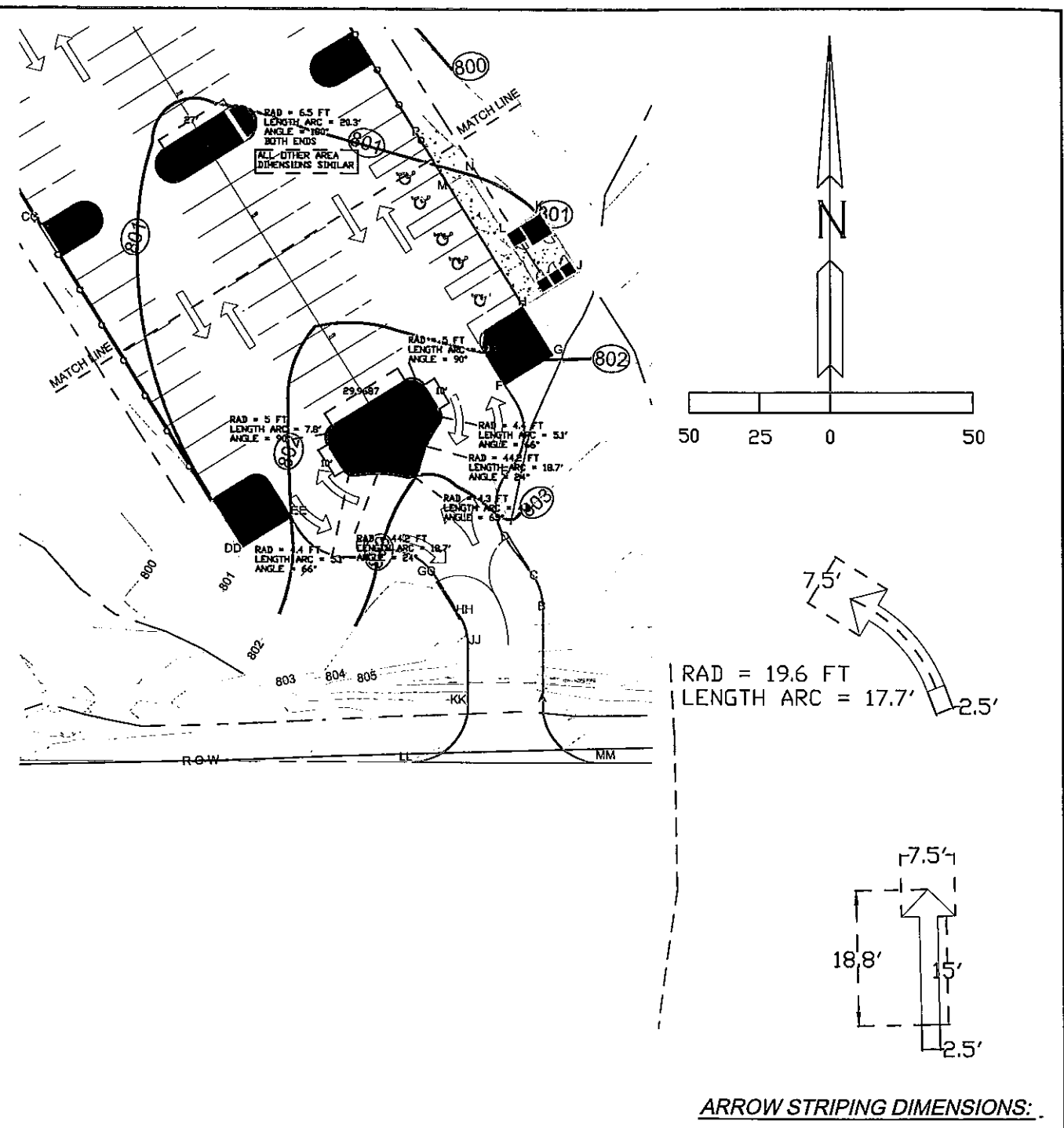
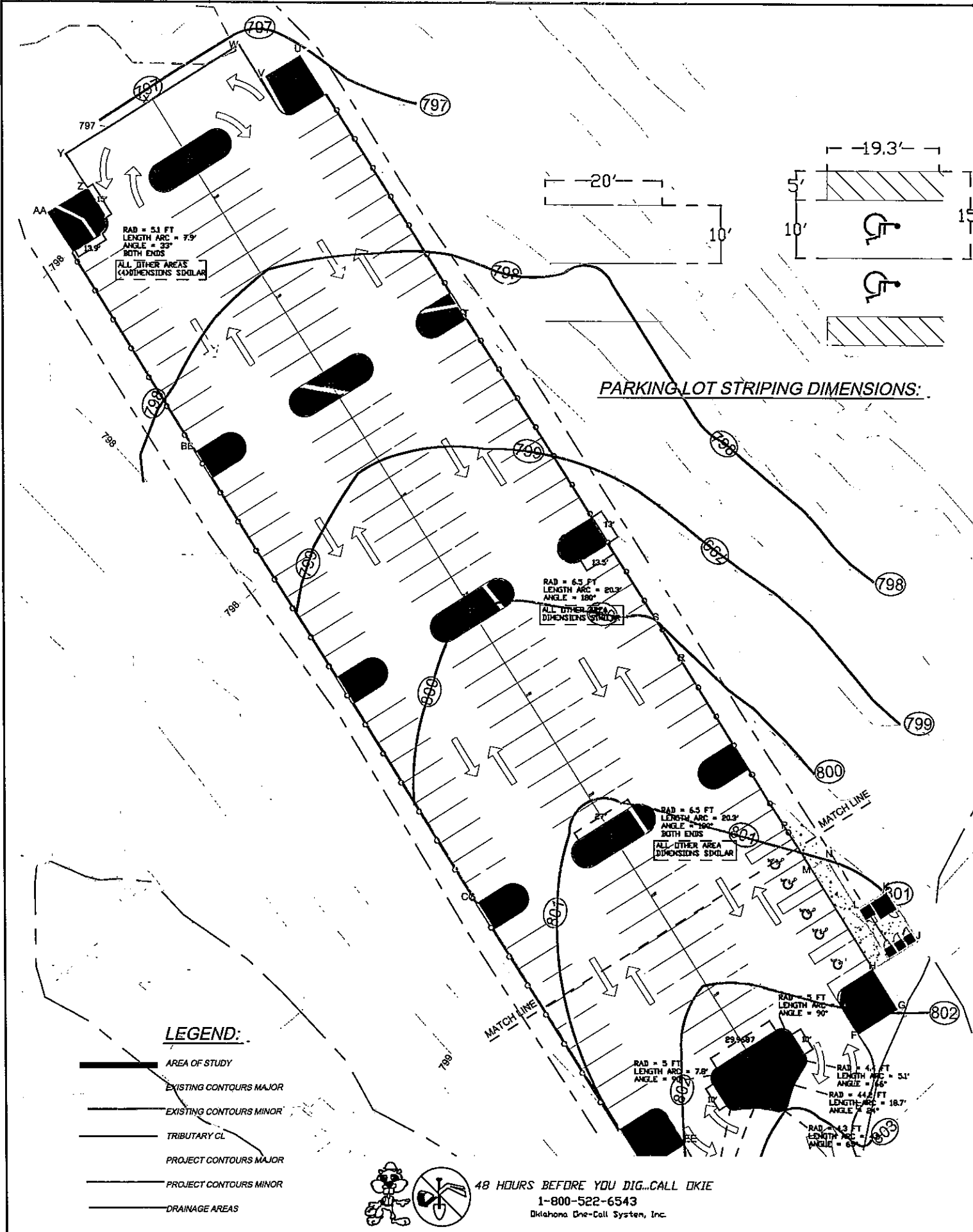
1. IN GENERAL, JOINT LAYOUT SHALL BE 15 FT X 15 FT DIMENSIONS (ACI).
2. FOR SPECIAL AREAS, SEE DIMENSIONS SHOW ON DRAWINGS, OR REQUEST CLARIFICATION FROM DESIGN ENGINEER.
3. SEE CITY OF TULSA STANDARD REFERENCE DRAWING FOR DETAILS.



Hydrospan International Services  
 Inter-National Consultancy, L.L.C.



				TURKEY MOUNTAIN PARKING LOTS WEST PL	
				CONCRETE PAVEMENT JOINT PLAN	
SCALE	N.T.S.	DRAWING NUMBER			
DATE		C-006			
DESIGNED		FILE NO.			
CHECKED		DA-23-753			
APPROVED		SHEET NUMBER			
		12			



**GENERAL NOTES:**

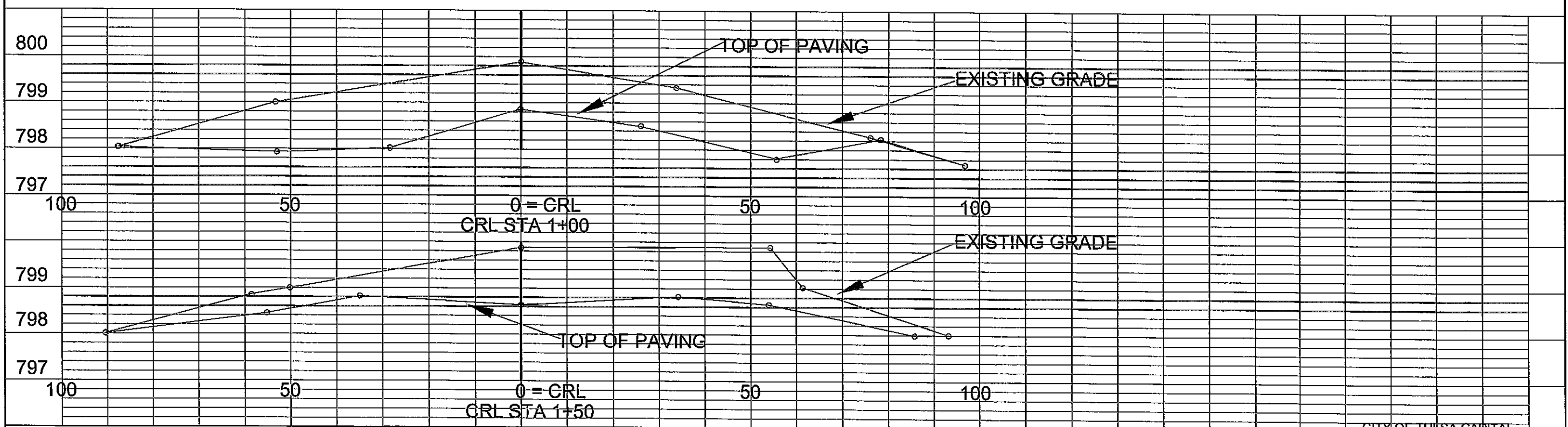
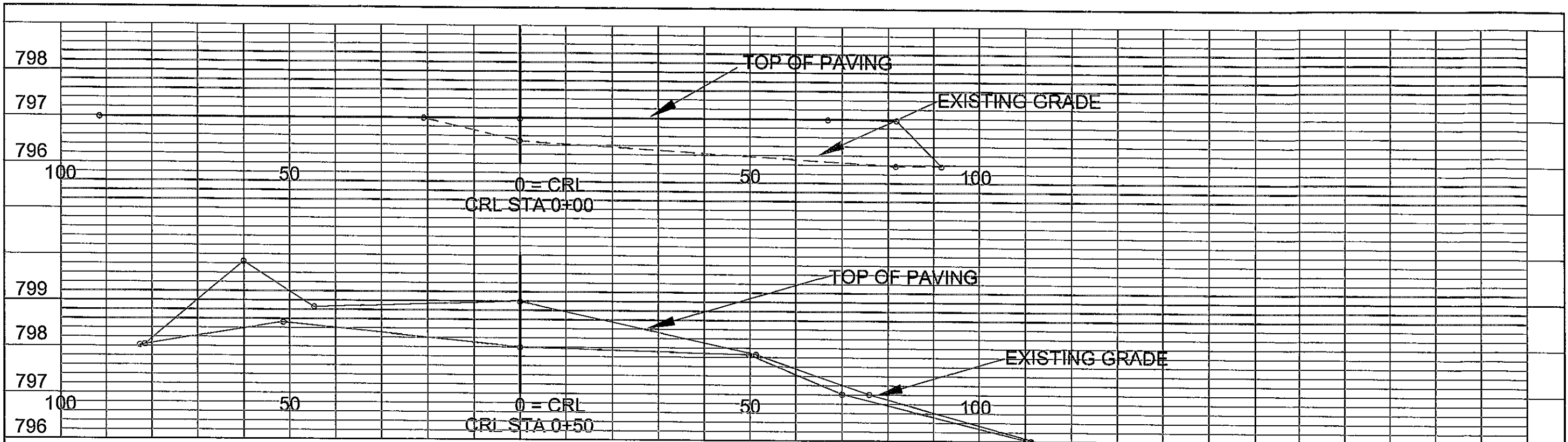
1. DIMENSIONS FOR ROCK AREAS AND STRIPING SHOWN ON DRAWING
2. FOR SPECIAL AREAS, REQUEST CLARIFICATION FROM DESIGN ENGINEER.
3. SEE CITY OF TULSA STANDARD REFERENCE DRAWING FOR DETAILS.



Hydrex International Services  
Inter-National Consultants, L.L.C.



TURKEY MOUNTAIN PARKING LOTS WEST PL	
ISLAND & STRIPING DIMENSIONS	
SCALE	N.T.S.
DRAWN	
CHECKED	
SUBMITTER	
REV	RECORDED
DRAWN	OKI
APPROVED	
DATE	DA-23-753
SHEET NUMBER	14



CITY OF TULSA CAPITAL  
IMPROVEMENT PROJECT

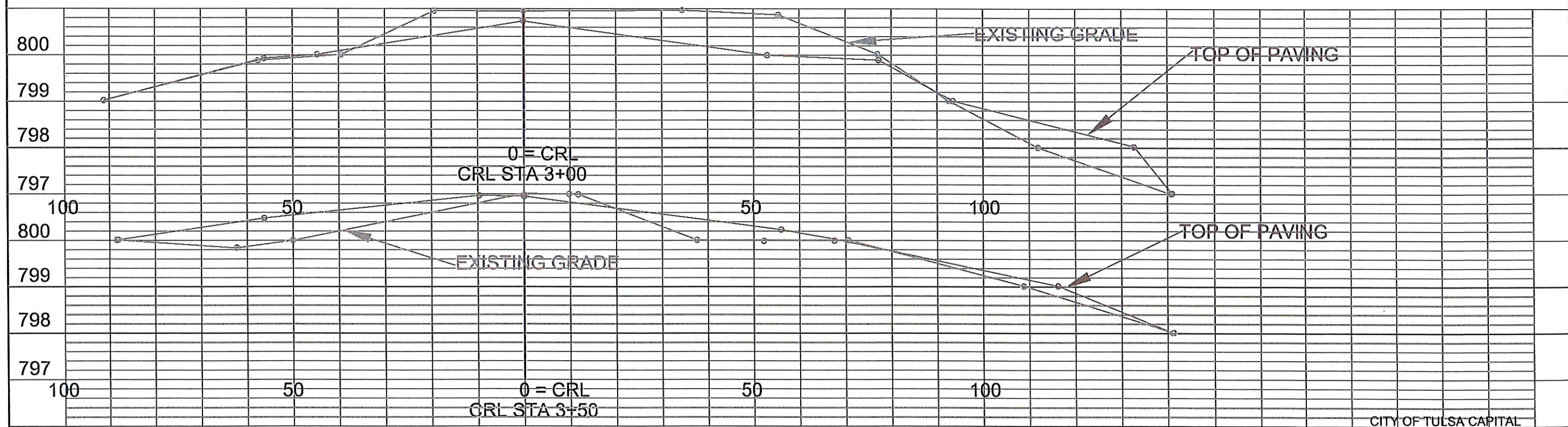
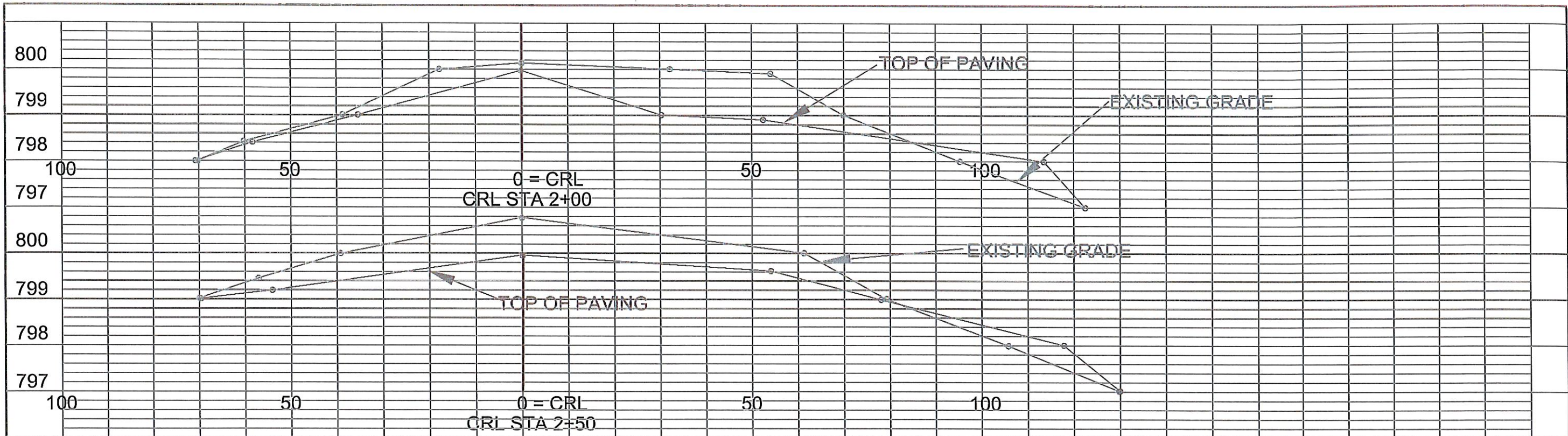
TURKEY MOUNTAIN PARKING  
E 61ST ST. SO.

WEST PARKING LOT  
CROSS SECTIONS  
0+00 TO 1+50



Hydraman International Services  
Inter-National Consultancy, S.L.C.

SCALE	N.T.S.	DRAWING NUMBER	C-009
DRAWN		FILE NAME	DA-23-753
CHECKED		SHEET NUMBER	15
DESIGNED			
BY	DESCRIPTION	DRAWN	CHECKED
		APPROVED	



CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

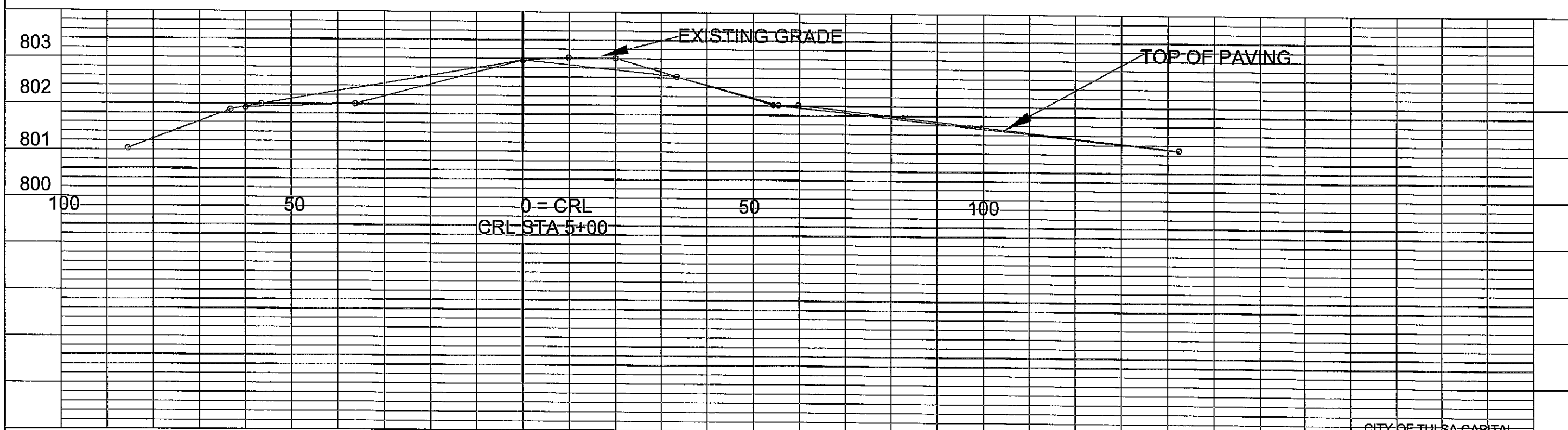
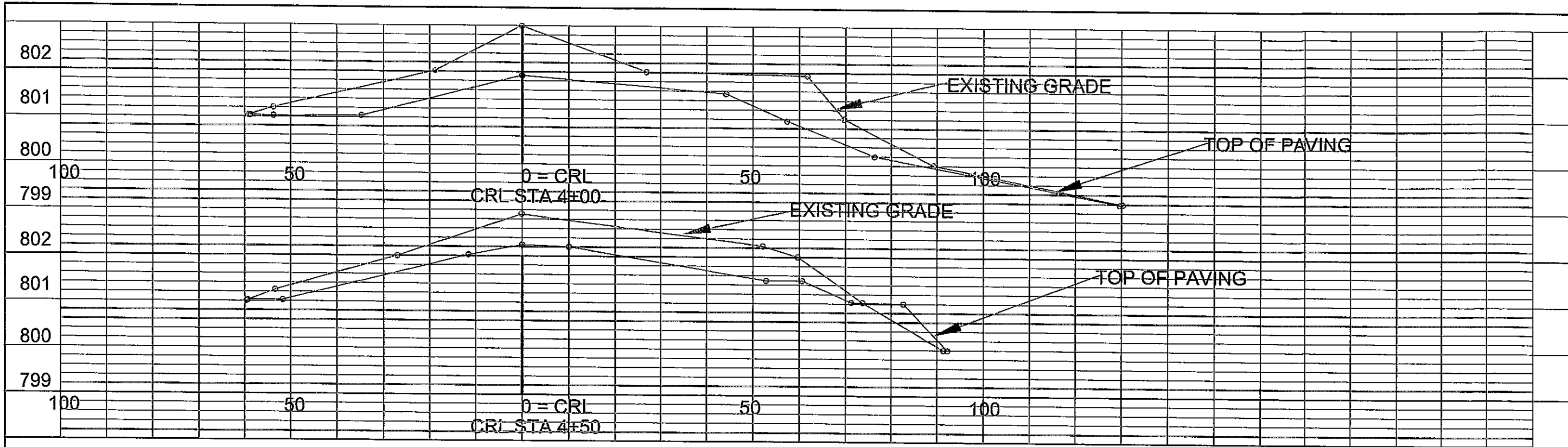
TURKEY MOUNTAIN PARKING  
E 61ST ST. SO.

WEST PARKING LOT  
CROSS SECTIONS  
2+00 TO 3+50



Hydropower International Services  
Inter-National Consultancy, L.P.C.

SCALE	N.T.S.	DRAWING NUMBER	C-010
DATE		FILE NAME	DA-23-753
DESIGNED		SHEET NUMBER	16
CHECKED			
APPROVED			



CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

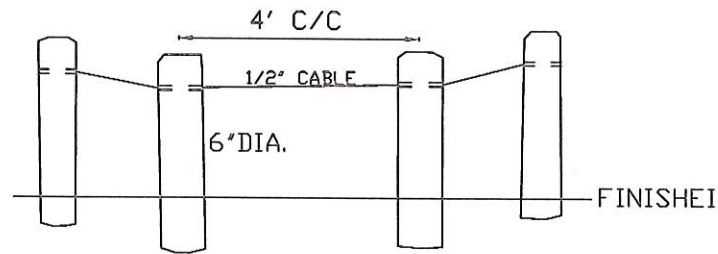


Hydrus International Services  
Inter-National Consultancy, L.L.C.

TURKEY MOUNTAIN PARKING  
E 61ST ST. SO.  
WEST PARKING LOT  
CROSS SECTIONS  
4+50 TO 5+00

NO.	DESCRIPTION	DRAWN	CHECKED	APPROVED

SCALE	N.T.S.	DRAWING NUMBER	C-011
DATE		FILE NAME	DA-23-753
		SHEET NUMBER	17



USE 6" DIAMETER TREATED POSTS

POST & CABLE FENCE DETAIL :

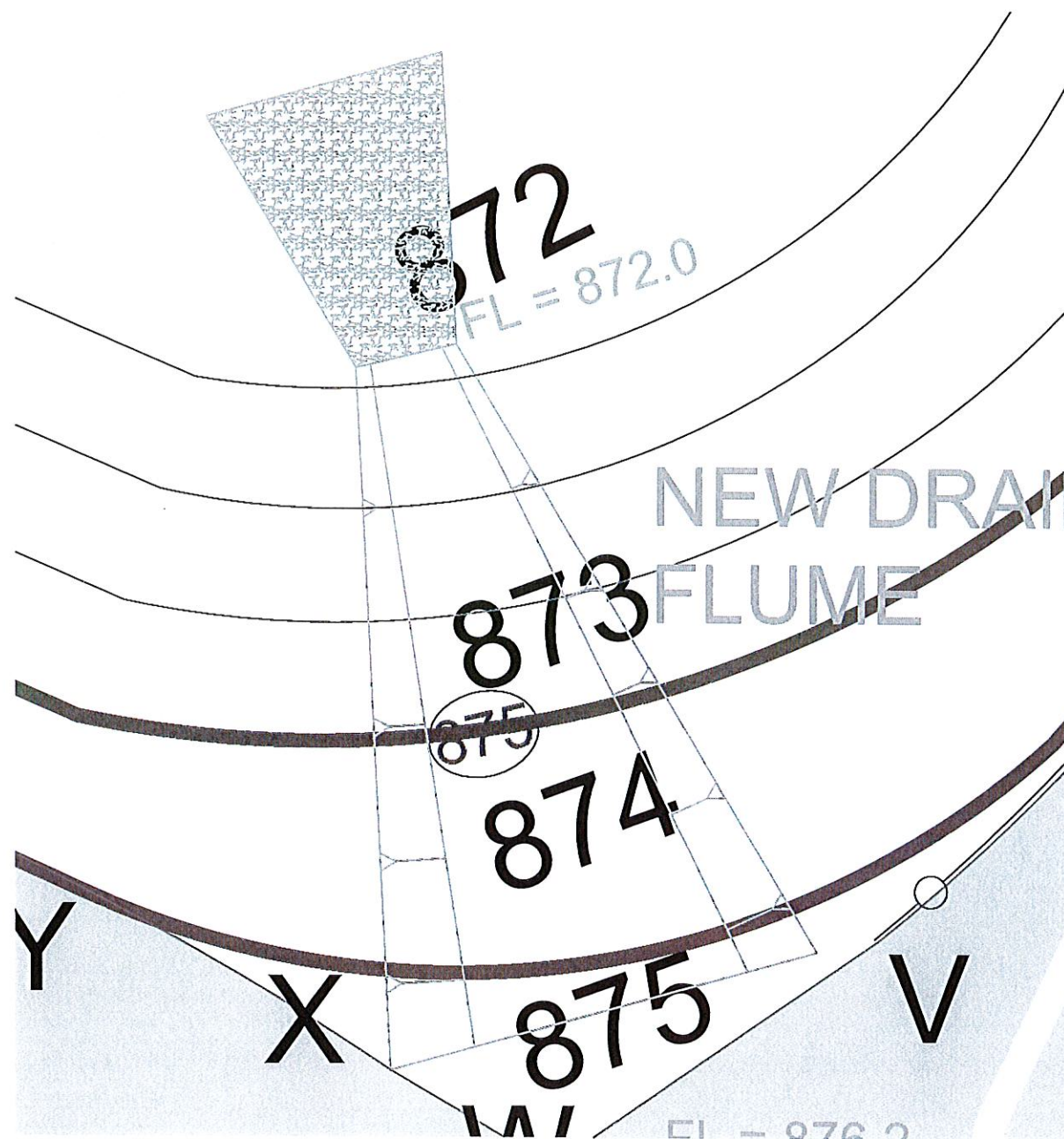
USE 6" DIAMETER TREATED POSTS

BURY POSTS A MINIMUM OF 2 FT. INTO GROUND

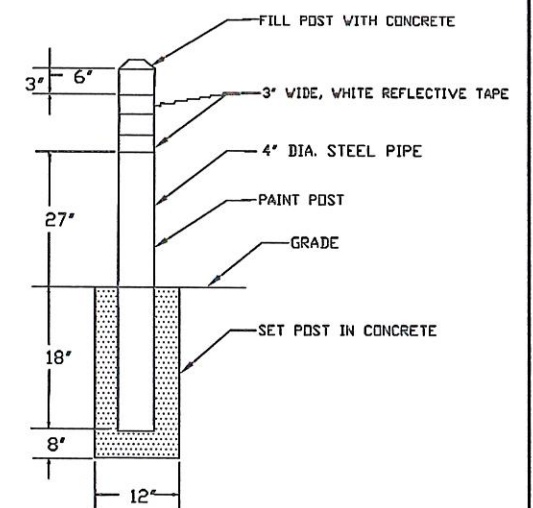
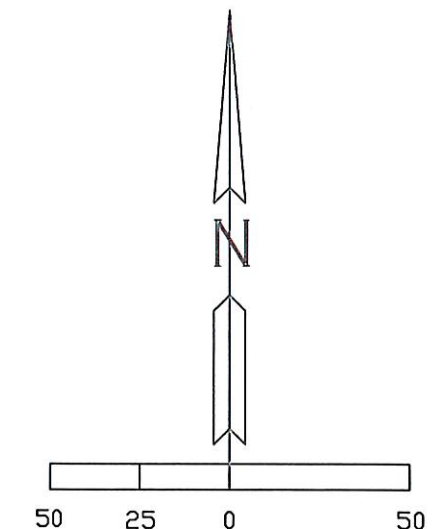
TOP OF POST SHALL BE 36-INCHES ABOVE FINAL GRADE

USE 1/2-IN. GALVANIZED CABLE FOR CABLING BETWEEN POSTS.

DRILL 3/4-IN HOLES IN POSTS - 6 INCHES BELOW TOP OF POSTS TO THREAD CABLE.



FLUME DETAIL :



TYPICAL BOLLARD DETAIL

BOLLARD DETAIL :

GENERAL NOTES:

AREA OF STUDY

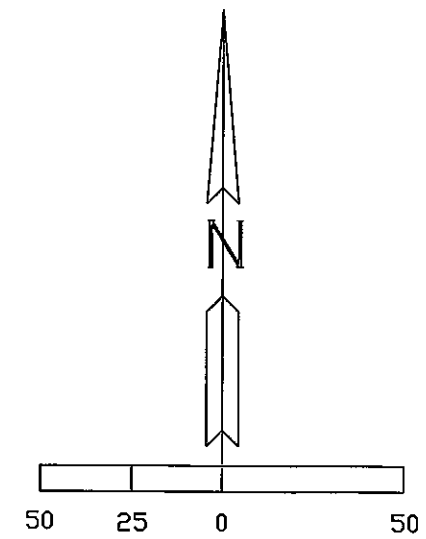
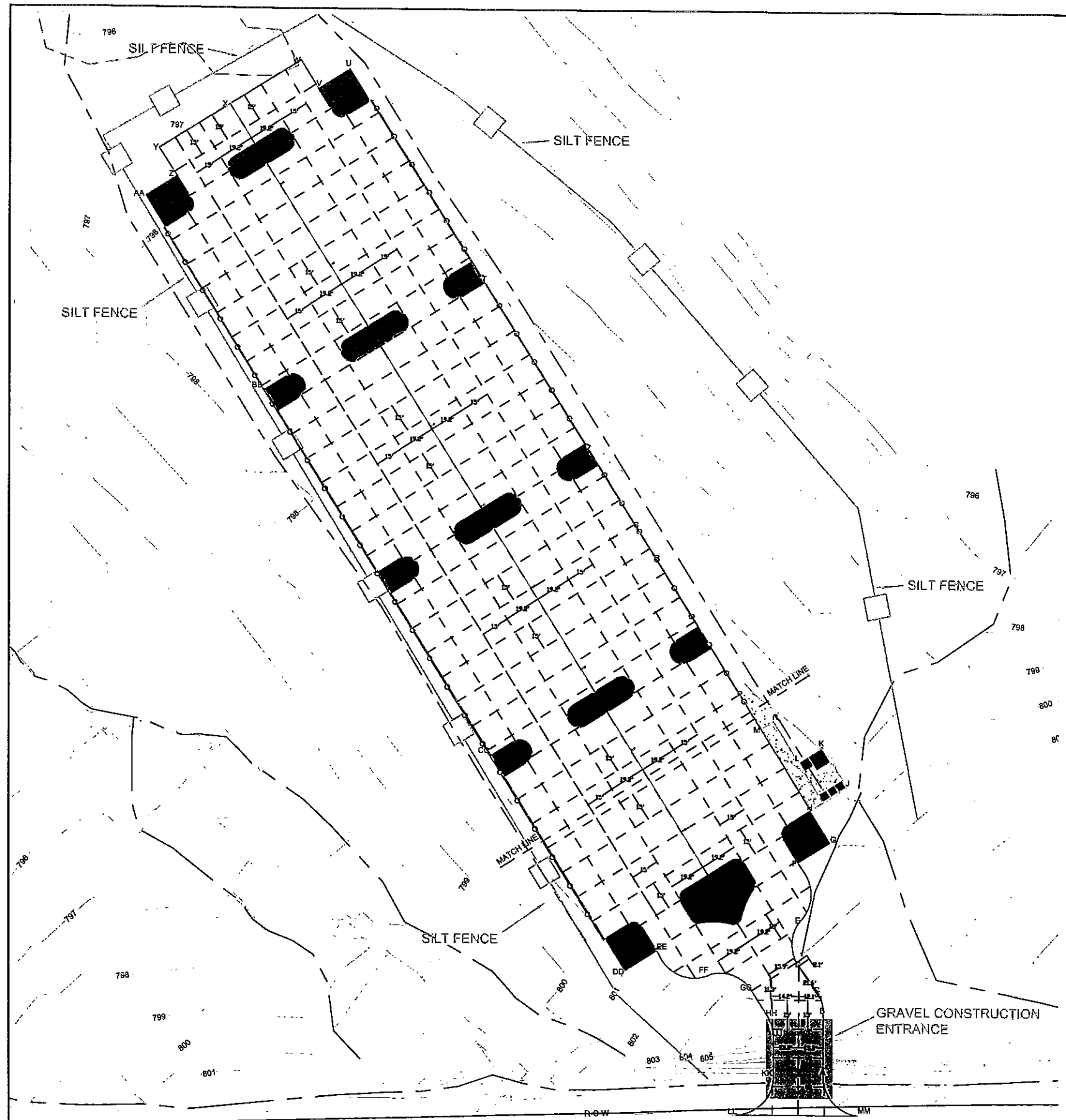
1. FOR PAVING SECTION FOR PARKING LOTS - SEE REFERENCE DRAWING STD.732 CITY OF TULSA - ALL WEATHER PARKING SURFACES FOR 6-INCH CITY OF TULSA RESIDENTIAL STREET.
2. FOR SIDEWALK RAMP FROM PARKING AREA TO REST AREA - SEE REFERENCE DRAWING STD.790 CITY OF TULSA - STANDARD SIDEWALK RAMP
3. FOR DOUBLE POLE GATE - SEE REFERENCE DRAWING STD 784 - CITY OF TULSA - DOUBLE POLE GATE
4. FOR SILT FENCE AND CONSTRUCTION ENTRANCE - SEE REFERENCE DRAWING STD-126 - CITY OF TULSA STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
5. FOR FLUME DETAIL - SEE REFERENCE DRAWING DC-3 - ODOT PAVED DITCHES AND SECTIONS



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Hydropeaks International Services  
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		TURKEY MOUNTAIN PARKING LOTS WEST & EAST PLS	
		MISCELLANEOUS DETAILS	
SCALE	N.T.S.	DRAWING NUMBER	C-016
DATE		FILE NO.	DA-23-753
BY	DESCRIPTION	DATE	SHEET NUMBER
		APPROVED	22



**LEGEND:**

- AREA OF STUDY
- EXISTING CONTOURS MAJOR
- EXISTING CONTOURS MINOR
- TRIBUTARY CL
- PROJECT CONTOURS MAJOR
- PROJECT CONTOURS MINOR
- SILT FENCE
- GRAVEL CONSTRUCTION ENTRANCE
- COIR LOGS



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 Inter-National Consultancy, L.L.C.

				TURKEY MOUNTAIN PARKING LOTS WEST PL	
				EROSION CONTROL PLAN	
SCALE	N.T.S.	DRAWING NUMBER		C-017	
DESIGNER		FILE NAME		DA-23-753	
SUBMITTER		SHEET NUMBER		23	
REV	DESCRIPTION	DATE	APPROVED		

# TEMPORARY EROSION CONTROL

SMALL GRAINS SUCH AS OATS, RYE, WHEAT, SUDANS AND SORGHUMS ARE THE MOST FEASIBLE TEMPORARY VEGETATION TO CONTROL EROSION. THE PRACTICE IS EFFECTIVE FOR AREAS WHERE THE SOIL IS LEFT EXPOSED FOR A PERIOD OF 6 TO 12 MONTHS. THE TIME PERIOD MAY BE SHORTER DURING PERIODS OF EROSION RAINFALL.

1. PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, STRAW WATTLES, ETC., SHALL BE INSTALLED.
2. TEMPORARY VEGETATIVE PRACTICE IS USUALLY APPLIED PRIOR TO THE COMPLETION OF FINAL GRADING OF THE SITE.
3. IF THE AREA TO BE SEEDED HAS BEEN RECENTLY LOOSENEED TO THE EXTENT THAT AN ADEQUATE SEEDBED EXISTS, NO ADDITIONAL TREATMENT IS REQUIRED. HOWEVER IF THE AREA TO BE SEEDED IS PACKED, CRUSTED, AND/OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING OR OTHER SUITABLE MEANS.
4. FERTILIZER SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE OR 15 POUNDS PER 1000 SQUARE FOOT USING 10-20-10 OR EQUAL.
5. SOILS KNOWN TO BE HIGHLY ACIDIC SHALL BE LIME TREATED.
6. SEEDING OPTIONS ARE AS FOLLOWS:

PLANT	QUANTITY PER		PLANTING DATE	DEPTH
	ACRE	1000 S.F.		
ANNUAL	40 LBS	0.90 LBS	09/15 TO 11/30	1/4 IN.
ELBON RYE	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
WHEAT	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
OATS	3 BU.	2.50 LBS	08/15 TO 11/30	2 IN.
SORGHUM	60 LBS	1.40 LBS	03/01 TO 09/15	2 IN.
SUDAN	40 LBS	0.90 LBS	04/01 TO 09/15	2 IN.

7. SEEDS SHALL BE DRILLED UNIFORMLY.
8. SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
9. 1 TO 3 MONTHS AFTER PLANTING, THE SEEDED SITE SHALL BE TOP DRESSED WITH 8 POUNDS PER 1000 SQUARE FEET OR 350 POUNDS PER ACRE OF 33-0-0.
10. AREAS WHICH DO NOT DEVELOP A SUFFICIENT COVER SHALL BE REPLANTED.
11. THE SEEDED AREA SHALL BE WATERED WHEN FEASIBLE AND NEEDED.

# PERMANENT EROSION CONTROL

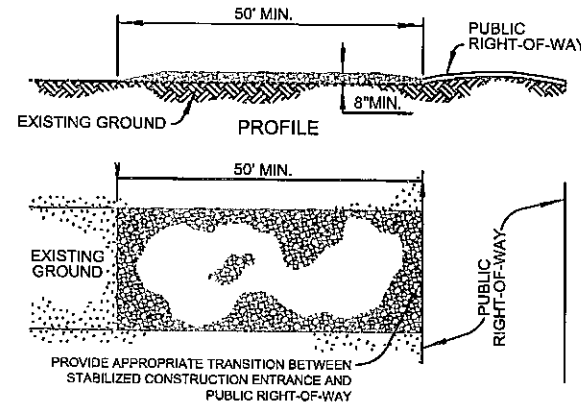
BERMUDA GRASS, KENTUCKY 31, TALL FESCUE AND WEEPING LOVEGRASS ARE SOME OF THE TYPES OF PERMANENT VEGETATION THAT MAY BE EFFECTIVELY USED TO CONTROL EROSION.

1. PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, STRAW BALES, ETC., SHALL BE INSTALLED.
2. THE SUBGRADE SHALL BE LOOSENEED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND 10-20-10 FERTILIZER (10 POUNDS PER 1000 SQUARE FOOT OR 450 POUNDS PER ACRE) SHALL BE MIXED WITH THE LOOSENEED SURFACE SOIL BY DISCING OR OTHER SUITABLE MEANS.
3. SOILS KNOWN TO BE HIGHLY ACIDIC SHALL BE LIME TREATED.

4. SEEDING OPTIONS ARE AS FOLLOWS:

PLANT	QUANTITY PER		PLANTING DATE	DEPTH
	ACRE	1000 S.F.		
BERMUDA	10 LBS	0.25 LBS	04/01 TO 08/15	1/2 IN.
FESCUE	40 LBS	0.90 LBS	09/01 TO 11/01	1/2 IN.
LOVEGRASS	40 LBS	0.90 LBS	04/01 TO 06/30	1/2 IN.

5. SEEDS SHALL BE DRILLED UNIFORMLY.
6. SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
7. MULCH SHALL BE USED WHERE NEEDED.
8. THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL THE PLANTS GROW 1/2 TO 1 INCH.

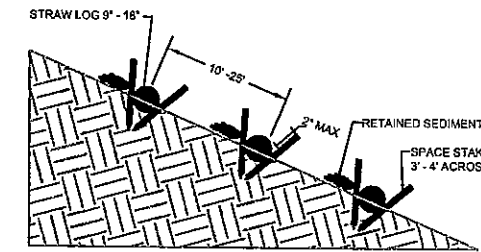


### GENERAL NOTES

1. THE STONE SIZE SHALL CONSIST OF COARSE AGGREGATE IN ACCORDANCE WITH ODOT STANDARDS AND SPECIFICATIONS SECTION 701.06 COARSE AGGREGATE NO. 357. THE MATERIAL SHALL BE PLACED WITH A THICKNESS NOT LESS THAN 8 INCHES, SHALL NOT BE LESS THAN THE WIDTH OF THE INGRESS OR EGRESS, AND NOT LESS THAN 50 FEET IN LENGTH.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED BY THE CONTRACTOR.
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

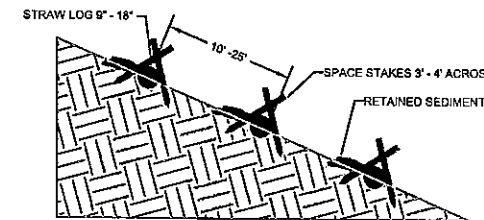
### Stabilized Construction Entrance

SCALE: NONE



EROSION CONTROL LOG - 1

SCALE: NONE



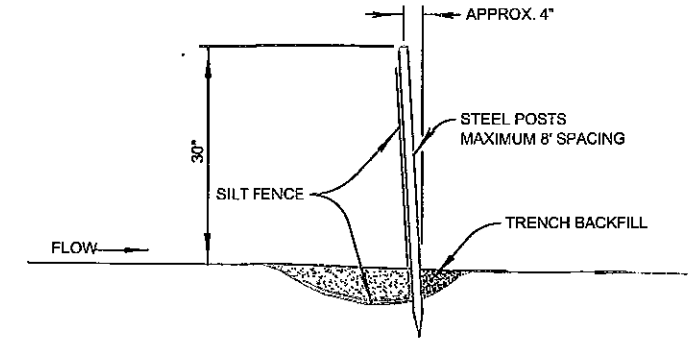
EROSION CONTROL LOG - 2

SCALE: NONE



COIR LOG/STRAW WADDLE

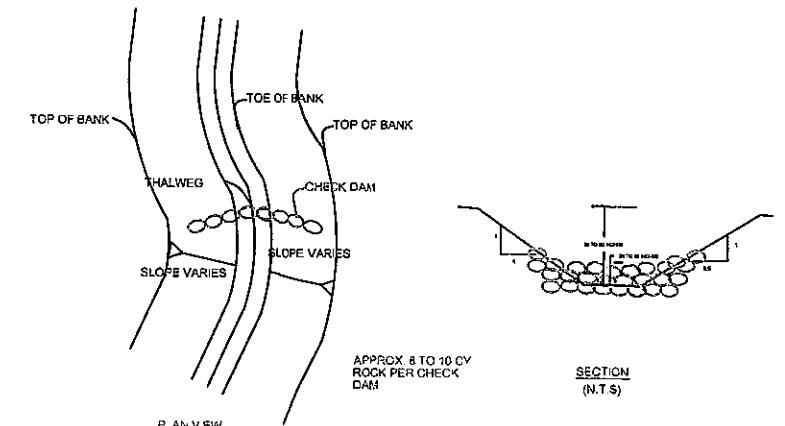
SCALE: NONE



1. POSTS SHALL BE ANGLED SLIGHTLY TOWARD RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN AND BACKFILLED.
3. THE TRENCH SHOULD BE 6" DEEP BY 3' TO 4' WIDE TO ALLOW SILT FENCE TO BE LAID IN AND BACKFILLED.
4. SILT FENCE SHALL BE FASTENED TO POSTS OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE POSTS.
5. INSPECTION SHALL BE FREQUENT & REPAIR OR REPLACEMENT PROMPT.
6. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO IMPEDE STORMWATER FLOW.
7. TRAPPED SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER AND LOCATION WHICH WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" TO 9" AND DISPOSED OF AS IN NOTE 7 ABOVE.

### SILT FENCE DETAIL

SCALE: NONE



TYPICAL CHECK DAM

SCALE: NONE

GENERAL NOTE: THIS PROJECT IS CONTRACTED BY THE CITY OF TULSA (DESIGNATED AS OWNER) ON BEHALF AND FOR THE BENEFIT OF RIVER PARKS AUTHORITY WHO OPERATES AND MAINTAINS THE TURKEY MOUNTAIN URBAN WILDLIFE AREA.

### CITY OF TULSA CAPITAL IMPROVEMENT PROJECT

TURKEY MOUNTAIN PARKING WEST AND EAST PARKING LOTS TULSA, OKLAHOMA

### EROSION CONTROL DETAIL SHEET

DS-23-753									
SCALE	N/A	DRAWING NUMBER	C-019						
DRAWN	JRS	FILE NAME	DS-23-753						
CHECKED	WBS	SHEET NUMBER	25						
SUBMITTED	WBS								
APPROVED	WBS								



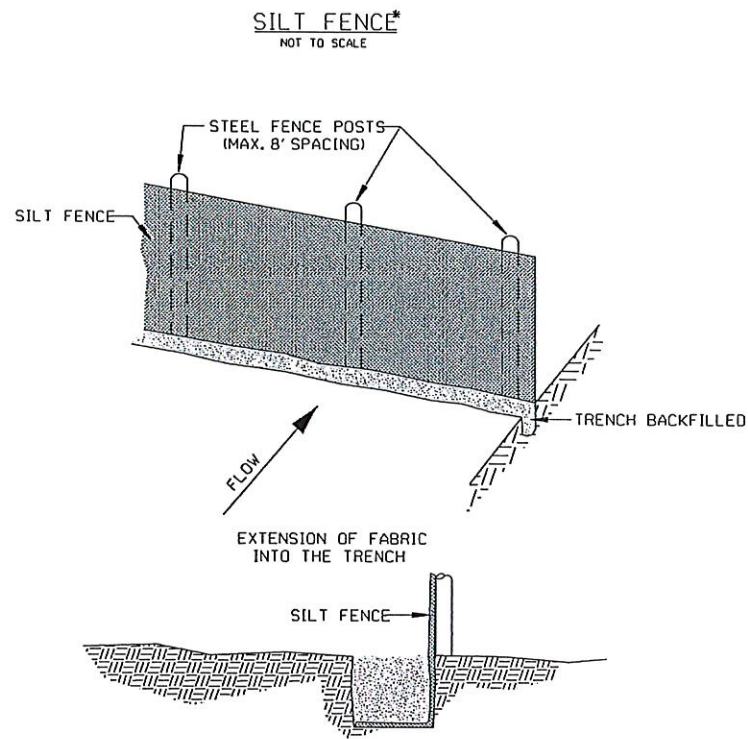
48 HOURS BEFORE YOU DIG...CALL OKIE  
1-800-522-6543  
Oklahoma One-Call System, Inc.



Hydropower International Services  
Inter-National Consultancy, L.L.C.



PATH NAME: E:\PARTS\STD\DDN\STDS\126-STD-SILT-FENCE-CONST-ENT.DGN SBW 09/19/2013



**NOTE:**

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND 3-4 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE TRENCH 4' AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE, IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO. 7 ABOVE.

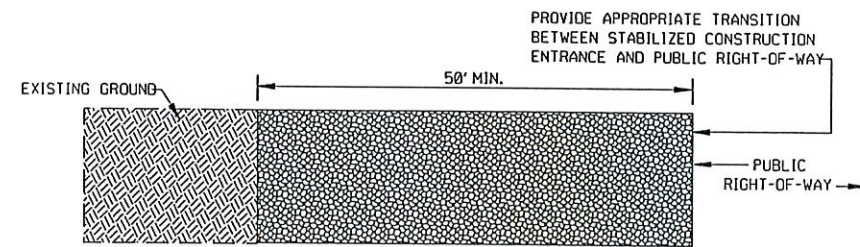
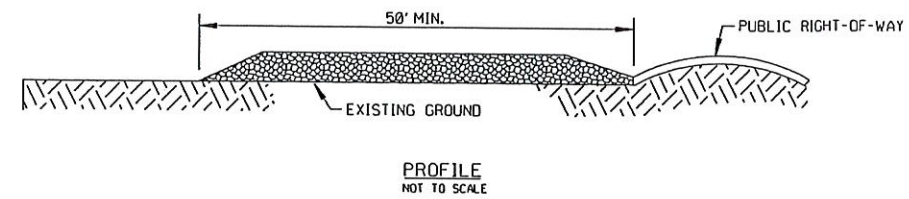
\* DRAINAGE AREA LESS THAN TWO (2) ACRES.



REFERENCE:  
CHAPTER 1000: CITY OF TULSA STORMWATER MANAGEMENT CRITERIA MANUAL.

STANDARD OBTAINED FROM: USDA-SCS, MD. STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**PLAN VIEW**  
NOT TO SCALE

**NOTE:**

1. STONE SIZE AASHTO DESIGNATION M43, SIZE NO. 2 (2-1/2' TO 1-1/2'). USE CRUSHED STONE.
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.

REVISION	BY	DATE

*[Signature]*  
CITY ENGINEER  
  
*[Signature]*  
DESIGN MANAGER

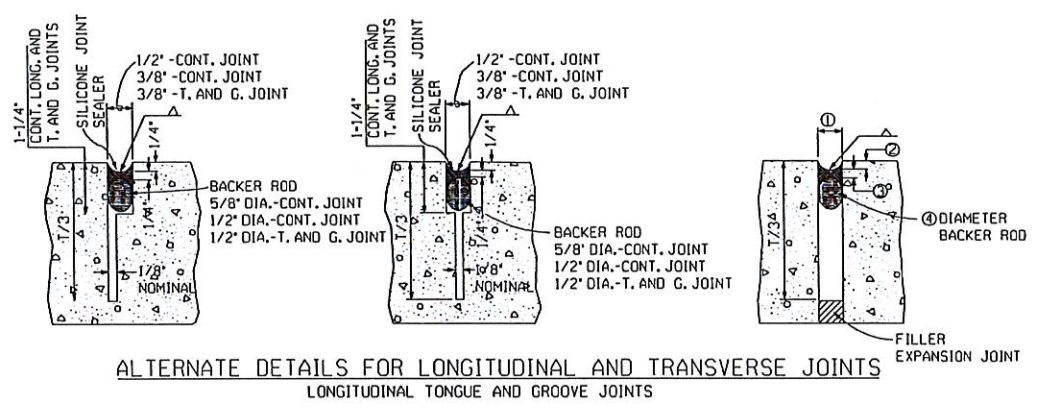
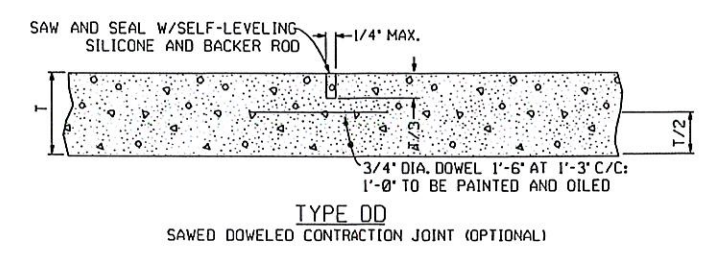
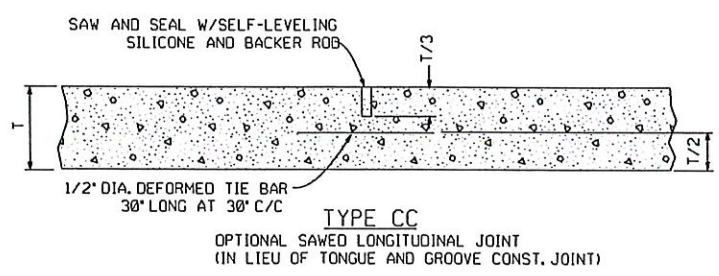
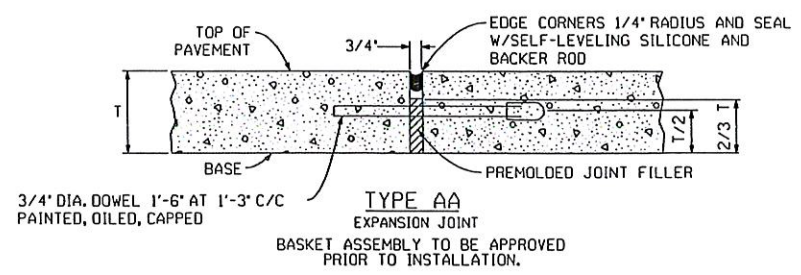
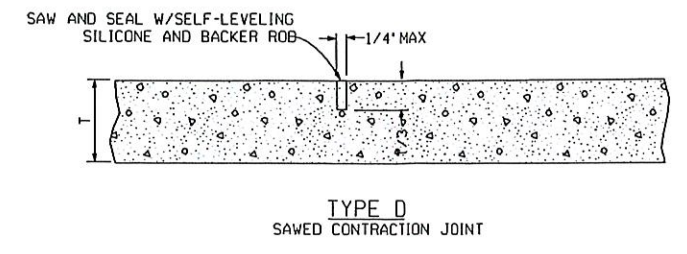
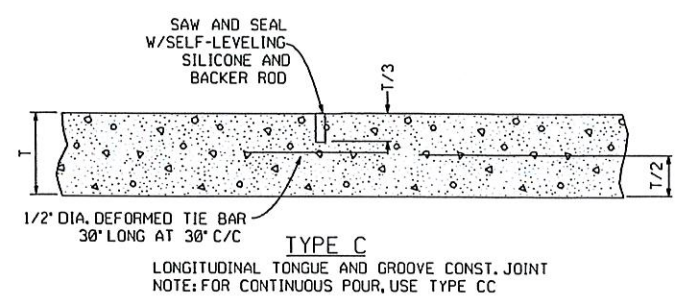
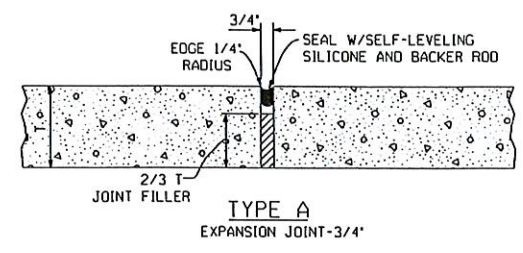
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

STANDARD SILT FENCE  
AND CONSTRUCTION ENTRANCE

DATE: MARCH 2022

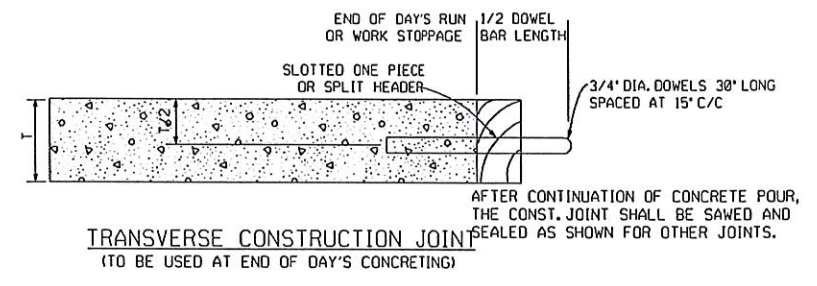
STD. 126

PATH NAME: /E1/PARTS/STD/DGN.STDS/729-CONC-PVMT-STD-JOINT-DTLS.DGN RMD 10/13/2020



EXPANSION JOINT TREATMENT TABLE			
JOINT WIDTH	SEALANT RECESS DEPTH	SILICONE SEALANT THICKNESS	BACKER ROD DIAMETER
1/2"	1/4"	1/4"	5/8"
3/4"	1/4"	3/8"	7/8"
1-1/2"	1/2"	1/2"	2"

DETAILS FOR SEALED EXPANSION JOINT





**GENERAL NOTES**

- ALL CONSTRUCTION AND MATERIALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ONLY SILICONE SEALANT MEETING REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS SHALL BE ACCEPTABLE FOR USE.
- ALL JOINTS SHALL BE BLAST CLEANED WITH WATER. THE LOOSE PARTICLES SHALL BE BLOWN OUT WITH OIL-FREE COMPRESSED AIR. SURFACES MUST BE CLEAN, DRY, FROST-FREE, AND DUST-FREE DURING INSTALLATION OF BACKER ROD AND SEALER.
- THE SHAPE FACTOR COMBINED WITH JOINT CLEANNESS IS THE CRITICAL COMBINATION NECESSARY TO GUARANTEE DESIRED BONDING AND FUNCTION OF SEALED JOINTS. NO TOLERANCE EXCEPT THOSE SHOWN HERE WILL BE ALLOWED.
- THE JOINT SHAPE FACTOR IS DEFINED AS THE FINAL PRESSED SHAPE OF THE SILICONE MATERIAL. THE TOOLING OPERATION WILL FIRMLY PRESS THE FRESHLY APPLIED MATERIAL INTIMATELY AGAINST THE CUT SIDES OF THE RECESS AND THE BACKER ROD SURFACES. THE ROUNDED SHAPE ON THE TOP AND BOTTOM OF THE SILICONE ALLOWS THE SEALANT TO PROPERLY FLEX BUT MAINTAIN ADHERENCE TO THE PAVING.

**NOTE:**

- 1. COST OF SAWING, DOWEL BAR ASSEMBLIES, JOINT FILLER, SEALER, AND STEEL SHALL BE INCLUDED IN UNIT PRICE BID FOR PCC PVMT.
- 2. EXPANSION JOINT MATERIAL SHALL BE BITUMINOUS FIBER AND OF NON-EXTRUDING TYPE.
- 3. REFER TO ODOT DRAWING LTU-5-0 FOR APPROVED LOAD TRANSFER UNITS AT TRANSVERSE CONCRETE PAVEMENT JOINTS.
- 4. APPROVED TYPE DOWEL BAR ASSEMBLY MAY BE SUBSTITUTED FOR THE ASSEMBLY SHOWN WHEN APPROVED BY THE ENGINEER. UPON APPROVAL BY THE ENGINEER, THE SAME SHALL BE USED THROUGHOUT THE PROJECT.
- 5. ANY DEVICE USED FOR SUPPORTING DOWELS SHALL HAVE SUFFICIENT RIGIDITY AND SO BE HELD IN DURING CONCRETE PLACEMENT THAT DOWELS WILL BE IN TRUE POSITION IN THE FINISHED PAVEMENT. ANY DEVICE NOT PRODUCING THE DESIRED RESULTS SHALL BE DISCONTINUED.
- 6. PRODUCER AND CONTRACTOR SHALL AVOID PATENT INFRINGEMENT OF BASKET AND SHALL SAVE THE CITY HARMLESS IN THE USE OF ANY BASKET.
- 7. DOWEL BARS SHALL HAVE A SHOP OR FIELD COAT OF ZINC CHROMATE FOR THE FULL LENGTH OF BAR AND SHALL HAVE A FIELD COAT OF M-70 ON THE FREE END (MIN. 1/2 LENGTH OF BAR).
- 8. ALL JOINTS TO BE SEALED WITH SELF-LEVELING SILICONE PER DETAIL.

**ALL CONCRETE PAVING SHALL BE 6-INCH THICK**

 CITY ENGINEER			CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL AND COLLECTOR STREETS SHEET 2 OF 2
DESIGN MANAGER 			
REVISION	BY	DATE	DATE: MARCH 2022 STD. 729

