GENERAL CONSTRUCTION NOTES:

G01. CONSTRUCTION SIGNAGE will be installed in a manner approved by the Engineer, in accordance with Chapter 4 of the Uniform Storm Drainage and Street Design Manual. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS REQUIRED TO REVIEW THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER.

G02. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-4000, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.

G03. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED ON DAMAGED AS LISTED IN THE BID OWNER'S SCHEDULE FOR THE PROJECT. ALL BENS, POLES AND TRAFFIC SIGNS, UNLESS OTHERWISE SPECIFIED, AND ALL TRAFFIC SIGNS REMOVED SHALL BE HANDED OVER TO THE CITY FOR OOS SPECIFICATION REMOVAL OF TRAFFIC ITEMS.

G04. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT DEMOLITION AND RELATED WORK. TIME SCHEDULES IN THE NOTICE SHALL BE IN ACCORDANCE WITH THE CITY SCHEDULE.

G05. LOCAL AND THROUGH TRAFFIC WILL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.

G06. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.

G07. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BE THE PROPERTY OF THE CONTRACTOR AND IN THEIR COMPLETE DISCRETION OF WHETHER OR NOT TO HIRE A MAN-POWERED MAINTENANCE PERSONNEL TO PROVIDE THE REQUIRED SERVICE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

G08. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MAN-POWERED MAINTENANCE PERSONNEL TO PROVIDE THE REQUIRED SERVICE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

G09. ALL TIRES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COSTS INCURRED TO BE INCLUDED IN THE PRICE BID AND NOT INCLUDED FOR OTHER ITEMS. NO PHONE CALLS WILL BE ACCEPTED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

G10. WRECKAGE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK. VEHICLES SHALL NOT BE LOADED TO THE CAPACITIES RECOMMENDED BY THE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.

G11. ANY DAMAGE TO THE ROADWAY PAYMENT. CURB, DRIVEWAYS OR SIDEWALKS CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION AND SATISFACTION OF THE CONTRACTOR'S OWNER AND ALL DISTURBLED ITEMS WILL BE REPAIRED TO MOWING MACHINE PATTERNS.

G12. THE CONTRACTOR ENCOUNTERS VIOLENT WHEN PAVING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7041 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

G13. THE CONTRACTOR SHALL BE CONSTRUCTED WITH CONTRACTOR MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LARGE MACHINERY WILL REMAIN IN MOTION, ANY DELAY IN FORWARDS PROGRESSION OF THE LARGE MACHINERY MAY REQUIRE A TOWING COMPANY TO PROVIDE THE SERVICE.

G14. NO FLYASH IS ALLOWED TO BE USED ON THIS PROJECT.

G15. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.

G16. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY CONSTRUCTION CIVIL ENGINEERING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.

G17. ALL STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT OF WAY.

G18. ALL CONCRETE CURB AND GUTTERS SHALL BE NON-OILY POURABLE. DRAINAGE ON CURBS WILL NOT BE ALLOWED.

G19. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPE OR REINFORCED CONCRETE BOXES.

G20. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.

G21. REELECTROCLATED SIGNAGE ON SIGNS AND BARBECUES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS AS STATED IN ASTM C 1516 OR AS REFLICTED IN THE CITY STANDARDS.

G22. THE ONLY WATER MAINS TO BE USED IN ANY CONCRETE MAINS WHICH WILL BE COVERED BY THE CONTRACT.

G23. PROPERTY IN CONNECTION WITH THE PAVING OR Laying OF PAVING SURFACES

G24. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMSTREAM FLOWING ON THE CONSTRUCTION SITE THAT THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.

G25. STRIPES OR MARKS ARE TO BE COMPLIANT TO THE NEAREST STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.

G26. THE CONTRACTOR MUST CALL 1-800-425-4321 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED OR OTHERWISE INJURED OR DAMAGED.

G27. PRIOR TO FINAL ACCEPTANCE, ALL ENGAGED CURB SURFACES SHALL BE CLEARED OF ALL TOOLING SUCH AS ASPHALT STAIN, THE MARKS, OR OTHER DISFIGUREMENT.

G28. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, CURB RAMP, GUTTERS, CROSSWALKS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES AND OMBROD MANAGEMENT AND CONTROL OF TRAFFIC DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
### SUMMARY OF DRAINAGE STRUCTURES

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<th>STR. NO.</th>
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<th>DESIGN</th>
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| TOTALS | 1 | 4 | 2 | | 420 | 65 |

### SUMMARY OF PIPE DESIGN

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### SUMMARY OF INLET DESIGN

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<th>DHIH</th>
<th>SPREAD AT HYDRAULIC</th>
<th>DEPTH AT INLET</th>
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## STORMWATER MANAGEMENT PLAN

### SITE DESCRIPTION

**PROJECT LIMITS:** SOUTH JACKSON AVE. AND W 29TH STREET PARKING LOT

**PROJECT DESCRIPTION:** PARKING LOT REPLACING AND DRAGGING WITH STORM SEWER DESIGN

**SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:**
- Prior to initiating soil disturbing activities, the contractor will install all perimeter temporary sediment controls specified in Table 1.
- Temporary sediment controls: 20 ft. wide silt fence, silt curtains, and drainage and sediment control devices.
- Sediment in construction operations as practical. If disturbed by the engineer, plant temporary seeding after the disturbed area has been stabilized for 48 hours.
- Storm drain inlets require erosion control only if disturbed by the contractor.
- Radial silt fences are only required for paved areas.
- Soil needs to be maintained within all disturbed areas.

**SOIL STABILIZATION PRACTICES:**
- Temporary Seeding
- Permanent Seeding, Slinging or Seeding
- Vegetative Mulching
- Soil Retention Blanket
- Preservation of existing vegetation

**STRUCTURAL PRACTICES:**
- Stabilized construction exit
- Temporary silt fence
- Temporary silt dikes
- Temporary fiber log
- Diverter, interceptor or perimeter dikes
- Diverter, interceptor or perimeter swales
- Rock filter or gravel filter
- Temporary slope drain
- Paved ditch w/ ditch liner protection
- Temporary diversion channels
- Temporary sediment basins
- Temporary sediment traps
- Temporary sediment filters
- Temporary sediment removal
- Rip rap
- Inlet sediment filter
- Temporary brush sediment barriers
- Sandbag berms
- Temporary stream crossings

**OFFSITE VEHICLE TRACKING:**
- Vehicle roads dampened for dust control
- Loaded haul trucks to be covered with tarpaulin
- Excess dirt on road removed daily

**SOIL TYPE:** Chaska-Severn Urban Land Complex

**TOTAL AREA OF THE CONSTRUCTION SITE:** 6.26 AC

**ESTIMATED AREA TO BE DISTURBED:** 3.00 AC

**TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:** 0.26 AC

**TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:** 6.26 AC

**POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:** 0.90

**LATITUDE & LONGITUDE OF CENTER OF PROJECT:** 39° 07' 39.0" N, 95° 52' 52.0" W

**PROJECT WILL DISCHARGE TO:**

**NAME OF RECEIVING WATERS:** JENNINGER RIVER

**SENSITIVE WATERS OR WATERSHEDS:** YES [ ] NO [x]

**303(d) IMPA IRED WATERS:** YES [ ] NO [x]

**IF YES, LIST IMPAIRMENT:**
- Located in a TMDL
- Lake Thunderbird TMDL
- MS4 Entity

**IF YES, LOCATION:**

**WASTE MATERIALS:**
- Proctor management and disposal of construction waste material is required by the contractor. Materials include wood, paper, metal, and all other materials products from the construction process. Practices include disposal, PDF materials handling, spilt prevention and cleanup measures. Controls and practices shall meet the requirements of federal and state local agencies

**HAZARDOUS MATERIALS:**
- Proctor management and disposal of hazardous waste materials is required by the contractor. Materials include wood, paper, metal, and all other materials products from the construction process. Practices include disposal, PDF materials handling, spilt prevention and cleanup measures. Controls and practices shall meet the requirements of federal and state local agencies

**GENERAL NOTES:**
- Storm water pollution prevention plan is required to comply with the Oklahoma pollution discharge elimination system (OPDES) regulations. This plan is required during the design phase. Confined in the free work meetings and available on the job site along with copies of the notice of intent form and form for certification that have been filed with the Oklahoma department of environmental quality (ODEQ). This plan must be kept current with up to date amendments during the construction of the project. All contractor off-site related storm water pollution prevention plan must be maintained on the job site. The contractor will be responsible for removal of all storm drain inlets before leaving the construction site. The best practices for controlling storm water pollution.

**OFFSITE SECTIONS OF THE 2009 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:**
- 102.06 Sounding requirements
- 104.10 Final clearing up
- 104.12 Contractors responsibility for work
- 104.13 Environmental protection
- 108.08 Storage and handling of material
- 107.01 Landfill rules and regulations to be observed
- 107.20 Storm water management
- 231.0 Management of erosion, sedimentation and storm water pollution prevention and control

**IN ADDITION:**
- ODEQ general permit (EPA) for storm water discharges from construction activities within the style of Oklahoma state, water quality division, September 13, 2017

---

**Erin W. McCord**
St. John Residential 1
1101 River St.
April 27, 2017

**City of Tulsa Storage Building & Parking Facility**

**City of Tulsa, Oklahoma Engineering Services Department**

**BKL Incorporated**

PHASE 1: MILL & OVERLAY AREA TO ALLOW FOR ADDITIONAL PARKING.

PHASE 2: REMOVE EXISTING FENCING AND MILL AND OVERLAY AREA.

PHASE 3: REMOVE THE EXISTING PAVEMENT AND FENCING. CONSTRUCT CONCRETE PAD AND APPROACHES FOR NEW STORAGE BUILDING. INSTALL NEW STORM SEWER SYSTEM AND CONSTRUCT PAVEMENT.

PHASE 4: REMOVE THE EXISTING PAVEMENT AND FENCING. INSTALL NEW STORM SEWER SYSTEM AND CONSTRUCT PAVEMENT.

PHASE 5: MILL, PATCH AND OVERLAY PAVEMENT. INSTALL NEW FENCES AND GATES.

NOTE: ONE PHASE SHALL BE CONSTRUCTED AT A TIME.
Demolition Plan

Bench Mark 569

IRCN RN WITH CAP SET H 416633.85
E 7529185.53
ELEV = 350.267

1 inch = 30 ft

Legend:
- Remove and Replace
- Paving Removal
- Remove and Replace Curb Driveway
- Remove Light Pole or Street Pole
- Light Pole or Power Poles to Stay

Copper Communication Line to be removed by contractor. Utility coordination effort to identify service connections. Got to indemnify contractor of liability for removal of utility line.

Service Pole to be removed by contractor. Electrical service has been disconnected.

REMOVE GATE

REMOVE FENCE

REMOVE FENCE

REMOVE FENCE

REMOVE FENCE

REMOVE FENCE

- Removal of existing structures and utility connections
- Preparation for new construction

Patching Summaries

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6" STEEL, T POST DRIVEN INTO UNDISTURBED SOIL TO A MINIMUM DEPTH OF 7" POSTS AT EACH TREE LOCATION. STAKING SHALL BE INSTALLED USING THE 120 DEGREE METHOD. SEE DETAIL ON THIS PAGE.

PLANT TREE 2' ABOVE FINISH GRADE.

6" GRADE A CEDAR WICK, HOLD BACK FROM TREE TRUNK.

PLANTING SOIL SHOULD CONSIST OF 60% IMPORTED SANDY LOAM AND 30% "BACK TO NATURE" ORGANIC MISTERTER. SOIL CONDITIONER.

ELEVATE CENTER OF PIT 6" WITH COMPACTED SOIL.

SUBLEVE 3/4" CLASS "A" GRAVEL TO A DEPTH OF 6" TO THE PLANTING PIT.

GUY WIRE WITH TREE STRAP

CUT TRUNK FROM ARROUN

TRUNK AND REMOVE TOP 1/3 OF WIRE BASKET & BURLAP FROM ROOT BALL.

FINISHED GRADE

SLOPE SIDES OF PIT

NOTE: 20 GALLON WATERING BAG WILL BE INSTALLED DURING PLANTING AND WILL BE IRRIATED WEEKLY FOR 1ST 3 MONTHS AFTER PLANTING.

TREE PLANTING DETAILS

NOT TO SCALE

S. JACKSON AVE. PLANTING CORRIDOR - TREE LEGEND

LEGEND

RB OKLAHOMA REDBUD
AM AMUR MAPLE

ITEM
RB

LATIN
Celtis occidentalis

NATURAL
6

NO.
604-605-606-607-608

REQUIRED SIZE
6" DIA. X 12' FOR #4 RB

AM

ANUR MAPLE

5

BASE 6" X 12" 10" FOR #6 AM

TOTAL
33
NOTES:
- COLUMNS ON GRID LINES 1 ARE SET APPROXIMATELY 7' LOWER THAN MAIN FLOOR COLUMNS.
- COLUMNS ON GRID LINES 2 ARE SET APPROXIMATELY 5.5' LOWER THAN MAIN FLOOR COLUMNS.
- PTSDS MANUFACTURERS IS TO COORDINATE WITH GC AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. THE SLAB HOIST WILL NOT BE ADJUSTED TO ACCOMMODATE COLUMNS OF INCORRECT LENGTH. REFER TO DETAILS ON SHEET 04-01.
- ALL EXPOSED FRAMING IS TO BE PAINTED, INTERIOR AND EXTERIOR.

1. FOUNDATION / SLAB PLAN

2. FRAMING PLAN

10'8" x 1'-11.5"

10'8" x 1'-11.5"

10" x 1'
1. SOUTH ENDWALL SECTION
1/2" x 1'-0"

2. NORTH WALL SECTION
1/2" x 1'-0"

3. NORTH STORAGE FRAMING SECTION
1/2" x 1'-0"

4. TYPICAL BASE DETAIL
1" x 1/2"

WALL SECTIONS
PROJ: TMU-PA-15-02 TOS & TDE
CITY OF TULSA STORAGE BUILDING & PARKING FACILITY
S. JACKSON AVE. AND W. 23RD ST.
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT
"K" PLAN NUMBER
BKL, INCORPORATED

[Diagram with various labeled sections and details such as "CONCRETE SLAB FINISH FLOOR 100'-0""]
1. **SIDE WALL SECTION @ DOOR**
   - 120" x 1'-0" x 1'-0"

2. **SECTION @ OVERHEAD DOOR**
   - 120" x 1'-0" x 1'-0"

3. **SIDE WALL SECTION @ LEAN-TO**
   - 120" x 1'-0" x 1'-0"

4. **LEAN-TO COLUMN SECTION**
   - 120" x 1'-0" x 1'-0"
## LUMINAIRE SCHEDULE

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## EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

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## PANELBOARD NOTES (#)

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL ELECRICAL DEVICE FURNISHED WITH PANELBOARD LOCK-OFF FOR MAINTENANCE.
3. INSTALL ELECRICAL DEVICE FURNISHED WITH PANELBOARD LOCK-OFF FOR MAINTENANCE.
4. GFI BREAKER FOR PERSONNEL PROTECTION (50mA).
5. GFI BREAKER FOR PERSONNEL PROTECTION (50mA).
6. GFI BREAKER FOR PERSONNEL PROTECTION (50mA).
7. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP.
8. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP.
9. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP.
10. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP.
11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

## GENERAL LUMINAIRE SCHEDULE NOTES

A) CONFORM ALL FINISH OPTIONS WITH ARCHITECT PRIOR TO ORDERING.
B) PROVIDE SUBMITTAL PACKAGE INCLUDING CUT SHEETS FOR EACH FIXTURE.
C) VERIFY TYPE OF EACH FIXTURE IS COMPATIBLE WITH ITS FINAL INSTALLATION SURFACE PRIOR TO ORDERING FIXTURES.
D) PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE ASSEMBLY, INCLUDING MOUNTING HARDWARE.
E) ELUMINATION OF ACCESSORIES IS REQUIRED FOR COMPLETE ASSEMBLY, INCLUDING MOUNTING HARDWARE.
F) SUBSTITUTION REQUESTS MUST BE MADE AT LEAST 30 DAYS PRIOR TO THE CLOSE OF BIDS LESS THAN ONE MONTH WITHDRAWL OF ALL BIDS GS-50-21-400035-00.
G) SUBSTITUTION REQUESTS MUST BE MADE AT LEAST 30 DAYS PRIOR TO THE CLOSE OF BIDS LESS THAN ONE MONTH WITHDRAWL OF ALL BIDS GS-50-21-400035-00.
H) SUBSTITUTION REQUESTS MUST BE MADE AT LEAST 30 DAYS PRIOR TO THE CLOSE OF BIDS LESS THAN ONE MONTH WITHDRAWL OF ALL BIDS GS-50-21-400035-00.
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## ELECTRICAL SCHEDULES

PROJ: TMU-V & V-182 TO 3 & TO5  
CITY OF TULSA STORAGE BUILDING & PARKING FACILITY  
S. JACKSON AVE. & IVY ST  
CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT  
TEAM MEMBER: KRISTEN FORD, P.E.  
HP ENGINEERING INC.