

**CIVIL SITE NOTES**

**GENERAL**

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
- THE DISTURBED AREA ON THE SITE EXCEEDS ONE ACRE. THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR COVERAGE UNDER MEMPHIS ENVIRONMENTAL PROTECTION AGENCY GENERAL (NPDES) PERMIT PRIOR TO CONSTRUCTION.
- FOR VIEWING CLARITY OF THESE PLANS, THE PIPES OR STRUCTURES MAY NOT BE DRAWN TO SCALE.
- THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL UTILITIES CURRENTLY ON OR NEAR THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PUBLIC AND/OR PRIVATE UTILITY LOCATING SERVICES, INCLUDING GROUND PENETRATING RADAR, POT-HOLING, AND OTHER MEANS, PRIOR TO STARTING CONSTRUCTION.
- THE SIZE AND LOCATIONS OF THE UTILITIES INDICATED ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND COR PRIOR TO CONSTRUCTION SO THAT REDESIGN OR CLARIFICATION MAY OCCUR.

**DEMOLITION**

- CONTRACTOR RESPONSIBLE FOR COORDINATING PRIVATE AND PUBLIC UTILITY LOCATES A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION OR DEMOLITION. CONTRACTOR SHALL USE GROUND PENETRATING RADAR, POTHOLES, OR OTHER MEANS NECESSARY TO IDENTIFY UTILITY LOCATIONS.
- ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFFSITE.
- CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES IN SUCH A MANNER TO PROVIDE MINIMUM TRAFFIC DISRUPTIONS. CONTRACTOR TO INSTALL TRAFFIC CONTROL DEVICES PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AS NECESSARY.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
- CONTRACTOR TO MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
- CONCRETE TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED.

**SITE PLAN**

- ALL DIMENSIONS ARE TO THE BACK OF CURB. WHEN CURBS ARE NOT PRESENT, DIMENSION ARE TO THE EDGE OF PAVEMENT.
- ALL EXTERIOR PARKING STALLS SHALL BE 10' X 18' UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO CONSTRUCTION AND IDENTIFY DISCREPANCIES TO THE ENGINEER OF RECORD AND COR.
- SEE SHEET CS501 FOR PROPOSED SITE IMPROVEMENT DETAILS REFERENCED.
- WHERE WORK IS DONE IN EXISTING AREAS, THE EXISTING FINISHED CONDITIONS ARE TO BE REPAIRED OR REPLACED. THESE FINISHED CONDITIONS ARE TO MATCH EXISTING UNLESS OTHERWISE NOTED.

**GRADING**

- CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IN IMPROVED AREAS IS ACHIEVED. CONTRACTOR TO TEST AND CORRECT ANY PONDING CONDITIONS.
- ALL SLOPES SHALL BE 4:1 OR FLATTER, UNLESS OTHERWISE SHOWN.
- ALL GRADES AT THE PROJECT BOUNDARY OR PROPERTY LINE SHALL MEET EXISTING GRADES.
- BUILDING PAD AREAS AND PAVED AREAS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
- ANY EXCESS SOIL MATERIAL SHALL BE EXPORTED FROM THE SITE AFTER CONSTRUCTION IS COMPLETE.
- CONTOURS ARE SHOWN AS A REFERENCE TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHOULD GRADE SITE PER THE PROPOSED SPOT GRADE ELEVATIONS.

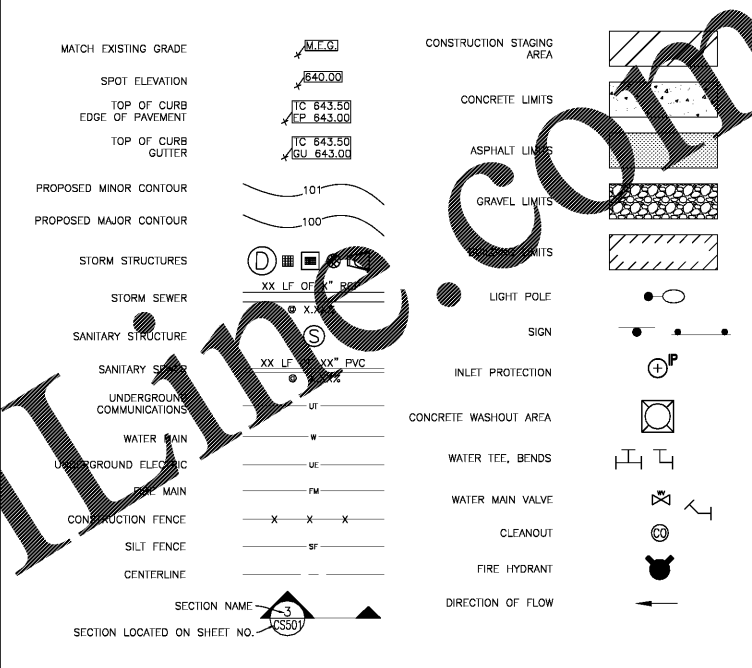
**UTILITIES**

- CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES TO STAY IN SERVICE DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO VERIFY UTILITIES THAT MIGHT BE PRESENT ON SITE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE ADEQUATE SHEETING, SHORING, AND DEWATERING IN ALL TRENCHES AND EXCAVATIONS AS NECESSARY IN ACCORDANCE WITH OSHA; AND IS SOLELY RESPONSIBLE FOR THE SAFETY OF SHEETING, SHORING, AND DEWATERING.
- WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING, THE LOCATION AND ELEVATION OF THE EXISTING PIPING AND STRUCTURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF ANY DISCREPANCIES ARE FOUND, THEN THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.
- REFER TO SHEETS CU501 FOR PROPOSED UTILITY DETAILS REFERENCED.
- WATER MAINS THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
- HORIZONTAL SEPARATION BETWEEN WATER & SEWER SHALL BE 10 FEET.
- VERTICAL SEPARATION BETWEEN WATER & SEWER SHALL BE 18 INCHES.
- WATER MAIN ALIGNMENT SHOWN IS BASED ON STANDARD FITTINGS AVAILABLE FOR DUCTILE IRON PIPE. JOINT DEFLECTIONS SHALL NOT EXCEED 75 PERCENT OF MANUFACTURER'S RECOMMENDED DEFLECTION.
- CONTRACTOR SHALL ADJUST WATER MAIN ALIGNMENT AND DEFLECT JOINTS AS NECESSARY TO ACCOMMODATE THE STANDARD BENDS SHOWN.
- MEASUREMENTS AND SLOPES SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- QUANTITIES PROVIDED ARE ESTIMATES AND SHALL BE CONFIRMED BY THE CONTRACTOR.

**CIVIL SITE ABBREVIATIONS**

AC	ACRE	MAX	MAXIMUM
ABC	AGGREGATE BASE COURSE	MB	MAIL BOX
ADA	AGGREGATE WITH DISABILITIES ACT	MEG	MEET EXISTING GRADE
ADGR	AGGREGATE	MEMO	MEMORANDUM
ALT	ALTERNATE	MFG	MANUFACTURED OR MANUFACTURE
APPROX	APPROXIMATE	MH	MANHOLE
ARV	AIR RELEASE VALVE	MIN	MINIMUM
ASPH	ASPHALT	MISC	MISCELLANEOUS
ASSY	ASSEMBLY	MJ	MECHANICAL JOINT
BC	BACK OF CURB	MOD	MODIFY
BFP	BACKFLOW PREVENTER	NOT	NOT MAINTENANCE OF TRAFFIC
BLDG	BUILDING	MULT	MULTIPLE
BLT	BUILT	MUNIC	MUNICIPAL
BM	BENCHMARK	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
BNRY	BOUNDARY	NA	NOT APPLICABLE
BO	BLOW OFF	NIC	NOT IN CONTRACT
		NO	NUMBER
		NOM	NOMINAL
		NORM	NORMAL
		NRCP	NON-REINFORCED CONCRETE PIPE
		NIP	NOTICE TO PROCEED
		NIS	NOT TO SCALE
		OC	ON CENTER
		PAR	PARALLEL
		PAVT	PAVEMENT
		PB	PULL BOX
		PC	POINT OF CURVE
		PCC	POINT OF COMPOUND CURVE
		PCCP	CONCRETE PAVEMENT
		PE	POLYETHYLENE (PLASTIC)
		PERF	PERFORATED
		PERIM	PERIMETER
		PERM	PERMANENT
		PERP	PERPENDICULAR
		PG	PROFILE GRADE
		PH	PHASE
		PI	POINT OF INTERSECTION
		PIV	POST INDICATOR VALVE
		PL	PROPERTY LINE
		PP	POWER POLE OR POLYPROPYLENE
		PR	PROPOSED
		PREV	PREVIOUS
		PRC	POINT OF REVERSE CURVE
		PRKG	PARKING
		PROJ	PROJECT
		PROP	PROPOSED
		PRV	PRESSURIZED RELIEF VALVE
		PSI	POUND PER SQUARE INCH
		PSL	PIPE SLEAVE
		PT	POINT OF TANGENCY
		PVC	POLYVINYL CHLORIDE (PLASTIC)
		R	RADIUS
		RC	REINFORCED CONCRETE
		RCD	REINFORCED CONCRETE DRAIN
		RCP	REINFORCED CONCRETE PIPE
		RD	ROAD OR ROOF DRAIN
		RDC	REDUCER
		REQ	REQUIRED
		REQD	REQUIRED INFORMATION
		RI	RIGHT OF WAY
		RR	RAILROAD
		RT	RIGHT
		SAN	SANITARY
		SBL	SPLASH BLOCK
		SCH	SCHEDULE
		SD	STORM DRAIN
		SDL	SADDLE
		SECT	SECTION
		SEP	SEPARATE
		SF	SQUARE FOOT (FEET)
		SG	SINGLE
		SHLDR	SHOULDER
		SOV	SHUT OFF VALVE
		SPEC	SPECIFICATION
		ST	SQUARE FEET
		SS	SANITARY SEWER
		SIA	STATION
		SID	STANDARD
		SIM	STEAM
		SURF	SURFACE
		SURV	SURVEY
		SW	SIDEWALK
		SY	SQUARE YARD
		T	TELEPHONE
		TBM	TEMPORARY BENCHMARK
		TB-XX	TEST BORING-XX (E.G., TB-01)
		TD	TRENCH DRAIN
		TE	TOP ELEVATION
		TEMP	TEMPORARY
		THK	THICKNESS
		TIB	TOP OF BANK
		TOC	TOP OF CURB
		TOPO	TOPOGRAPHY
		TOS	TOE OF SLOPE
		TP	TELEPHONE POLE
		TYP	TYPICAL
		TW	TOP OF WALL
		UD	UNDERDRAIN
		UP	UTILITY POLE
		UTIL	UTILITY
		USGS	U.S. GEOLOGICAL SURVEY
		VAR	VARIES
		VB	VALVE BOX
		VC	VERTICAL CURVE
		VERT	VERTICAL
		VIF	VERIFY IN FIELD
		VOL	VOLUME
		W	WATER LINE
		WM	WATER METER OR WATER MAIN
		WT	WATER TABLE
		WTR	WATER
		WW	WASTE WATER
		WWF	WELODED WIRE FABRIC
		XTMR	TRANSFORMER

**PROPOSED LEGEND**



Vertical scale on the left side of the page with various increments: three inches = one foot, one and one half inches = one foot, one inch = one foot, three quarters inch = one foot, one half inch = one foot, three eighths inch = one foot, one quarter inch = one foot, one eighth inch = one foot.

**Order Plans @**

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							<p>Drawing Title <b>GENERAL NOTES</b></p>	<p>Project Title <b>CONSTRUCT PARKING GARAGE ON WEST LOT</b></p>		<p>Project Number <b>15.1067</b></p>
<p>Revisions:</p>				<p>Approved for Design Concept: <b>FACILITY MANAGEMENT DIVISION MANAGER</b></p>		<p>Location <b>MEMPHIS, TN</b></p>		<p>Date <b>11/14/2016</b></p>	<p>Checked By: <b>KJC</b></p>	<p>Drawn By: <b>CMB</b></p>