CONSTRUCTION PLANS
OAKLAND GRAVEL SIDEWALK
TAP 2101513

EXISTING SURVEY LEGEND

LINEWORK

- SANITARY SEWER
- SANITARY SEWER FORCE MAIN
- STORM SEWER
- WATER
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- UNDERGROUND COMMUNICATIONS
- OVERHEAD COMMUNICATIONS
- UNDERGROUND TELEPHONE
- OVERHEAD TELEPHONE
- UNDERGROUND FIBER OPTIC
- OVERHEAD FIBER OPTIC
- UNDERGROUND TV/CABLE
- OVERHEAD TV/CABLE
- GAS
- TRAFFIC
- INTERMEDIATE CONTOUR
- INDEX CONTOUR
- PROPERTY LINE
- RIGHT OF WAY
- SECTION LINE
- EASEMENT
- GUARD RAIL
- FIELD FENCE
- CHAIN LINK FENCE
- WOODEN FENCE
- SILT FENCE
- AGRICULTURE LINE
- EDGE OF TREES
- TOP/BOTTOM OF SLOPE
- ROAD CENTERLINE
- WATERWAY FLOWLINE

UTILITY QUALITY LEVELS:
UTILITY QUALITY LEVELS ARE BASED ON THE CI/ASCE 38-02 STANDARD.

UTILITY QUALITY LEVEL A:
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES

UTILITY QUALITY LEVEL B:
INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.

UTILITY QUALITY LEVEL C:
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

ADDITIONALLY IN THE CASE OF MULTIPLE OWNERS OF THE SAME UTILITY TYPE SAID UTILITIES WILL BE ABBREVIATED WITH AN OWNER NUMBER (1, 2, 3, ETC) AND REFERENCED IN THE IOWA ONE CALL UTILITY INFORMATION SECTION.

EXAMPLES:

- C1(B) — UNDERGROUND COMMUNICATIONS- OWNER 1
- C2(B) — UNDERGROUND COMMUNICATIONS- OWNER 2

TYPICAL HATCHING

- SIDEWALK (MATERIAL NOTED)
- CONCRETE
- ASPHALT
- RIP RAP
- GRAVEL
- GRASS
- TEMPORARY CONSTRUCTION EASEMENT
- PERMEABLE PAVER
- WATER
- BUILDING OUTLINE
- SAND
- MULCH LANDSCAPING
- ROCK LANDSCAPING

ABBREVIATIONS

CP	CONTROL POINT	CI	CAST IRON PIPE
BM	BENCHMARK	DI	DUCTILE IRON PIPE
ROW	RIGHT-OF-WAY	CMP	CORRUGATED METAL PIPE
GU	GUTTER	HDPE	HIGH-DENSITY POLYETHYLENE PIPE
CL	CENTERLINE	VCP	VITRIFIED CLAY PIPE
ASPH	ASPHALT	PVC	POLYVINYL CHLORIDE PIPE
PCC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
FL	FLOWLINE	UNK	UNKNOWN
RIM	ELEVATION AT RIM	DH	DRILL HOLE
W	WITH	RBC	REBAR W/ PLASTIC CAP
TYP	TYPICAL	IPC	IRON PIPE W/ PLASTIC CAP
FND	FOUND	MON	MONUMENT
FF	FINISHED FLOOR	PK	PK NAIL
		TCE	TEMPORARY CONSTRUCTION ESMT
		PSE	PERMANENT EASEMENT

ONE CALL UTILITY INFORMATION:

DESIGN INFORMATION REQUEST TICKET #: 232371747, 232371748, 232371782, 232371802, 232371803, 232414896, 232414897

CALL OR CLICK 3 DAYS BEFORE YOU DIG!
MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE OR 811
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ELECTRIC
- AIR CONDITIONING UNIT
- BREAKER BOX
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- HEAT PUMP

GAS
- GAS MARKER
- GAS METER
- GAS VALVE

GENERAL SITE FEATURES
- BOLLARD
- FLAGPOLE
- FLOOD LIGHT
- GUY WIRE
- MAILBOX
- SIGN- DOUBLE POST
- SIGN- SINGLE POST
- SOILBORE
- STREET LIGHT
- UTILITY POLE
- UTILITY POLE W/STREET LIGHT
- UNKNOWN MANHOLE

MONUMENTS
- BENCHMARK
- BENCHMARK (TEMPORARY)
- CONTROL POINT
- CUT X FOUND
- CUT X SET
- MONUMENT FOUND (FIRST TYPE)
- MONUMENT FOUND (SECOND TYPE)
- MONUMENT SET (FIRST TYPE)
- MONUMENT SET (SECOND TYPE)
- SECTION CORNER FOUND
- SECTION CORNER SET
- T POST
- WOODEN POST

RAILROAD
- MAINLINE MILE MARKER
- POINT OF SWITCH
- RAILROAD SIGNAL

SANITARY SEWER
- SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- SEPTIC TANK LID

STORM SEWER
- BEEHIVE INLET
- DOUBLE CURB INLET
- SINGLE CURB INLET
- AREA DRAINAGE INLET
- FLARED END SECTION
- STORM MANHOLE
- STAND PIPE
- STORM SEWER CLEANOUT
- SIDE OPENING AREA INLET

TELECOMMUNICATIONS
- COMPOSITE HANDHOLE
- FIBER OPTIC MARKER
- SATELLITE DISH
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TV/CABLE BOX
- TV/CABLE MANHOLE

TRAFFIC
- PEDESTRIAL SIGNAL
- SIGNAL CONTROL CABINET
- TRAFFIC BOX
- TRAFFIC HANDHOLE
- TRAFFIC MANHOLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL W/STREET LIGHT

VEGETATION
- CONIFEROUS TREE
- DECIDUOUS TREE
- SHRUB
- TREE STUMP

WATER
- CURB STOP
- FIRE HYDRANT
- IRRIGATION VALVE
- MONITORING WELL
- POST INDICATOR VALVE
- SPRINKLER BOX
- WATER MANHOLE
- WATER MARKER
- WATER METER
- WATER SPIGOT
- WATER VALVE
- WATER VALVE MANHOLE
- YARD HYDRANT

DEMOLITION
- REMOVE TREE

UTILITY WARNING
THE UTILITIES DEPICTED ON THIS DOCUMENT HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND/OR RECORDS OBTAINED. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN COMPRISE ALL SUCH ITEMS IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES OR SUBSURFACE FEATURES SHOWN ARE IN THE EXACT LOCATION INDICATED EXCEPT WHERE NOTED AS QUALITY LEVEL A.

SHEET INDEX

#	TITLE
1	COVER
2	SUMMARY OF QUANTITIES
3	PROJECT CONTROL & ALIGNMENT
4	RIGHT OF WAY PLAN 1
5	RIGHT OF WAY PLAN 2
6	RIGHT OF WAY PLAN 3

KEY MAP

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH "CITY OF COLUMBIA STREET, STORM DRAIN AND SANITARY SEWER SPECIFICATIONS AND STANDARDS" (CURRENT EDITION).
2. KNOWN UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST.
3. ALL EXCAVATION TO BE IN ACCORDANCE WITH SECTIONS 319.010-319.050, REVISED STATUTES OF THE STATE OF MISSOURI. SUCH COMPLIANCE SHALL NOT, HOWEVER, EXCUSE ANY PERSON MAKING ANY EXCAVATION FROM DOING SO IN A CAREFUL AND PRUDENT MANNER, NOR SHALL IT EXCUSE SUCH PERSON FROM LIABILITY FOR ANY DAMAGE OR INJURY TO UNDERGROUND UTILITIES RESULTING FROM THE EXCAVATION.
4. ALL DISTURBED EARTH AREAS SHALL BE RESTORED AS PER TS-__ SEEDING AND TS-__ EROSION CONTROL.
5. REMOVE ALL PAVEMENT SURFACES, INLETS, PIPES AND SIDEWALKS WITHIN THE CONSTRUCTION LIMITS AS PER TS-__, EXCEPT THOSE NOTED TO REMAIN. THE FIELD INSPECTOR SHALL VERIFY REMOVAL OF ALL DRIVEWAY PAVEMENT.
6. REMOVAL OF TREES AND BUSHES SHALL BE VERIFIED BY FIELD INSPECTORS. EXERCISE CAUTION WHEN WORKING NEAR THE CONSTRUCTION LIMITS TO MINIMIZE DISTURBANCE TO ADJACENT TREES AND SHRUBS THAT ARE NOT BEING REMOVED BY CONSTRUCTION ACTIVITIES.
7. NO OPEN TRENCHES WILL BE ALLOWED OVERNIGHT. ASPHALTIC "COLD MIX" SHALL BE USED AS A TEMPORARY PATCH OVERNIGHT. TEMPORARY PATCHING SHALL BE CONSIDERED INCIDENTAL TO THE WORK.

UTILITY CONTACTS

ELECTRIC CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	**NATURAL GAS** AMEREN MISSOURI 2001 MAGUIRE BLVD. COLUMBIA, MISSOURI 65201 573-876-3028
ELECTRIC BOONE ELECTRIC COOPERATIVE 1413 RANGELINE STREET COLUMBIA, MO 65201 573-449-4181	**SEWER** CITY OF COLUMBIA, SEWER UTILITY 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489
WATER CITY OF COLUMBIA, WATER & LIGHT 701 E. BROADWAY COLUMBIA, MISSOURI 65201 573-874-2489	**SEWER** BOONE COUNTY REGIONAL SEWER DISTRICT 1314 N. 7TH STREET COLUMBIA, MO 65201 573-443-2774
TELECOMMUNICATION MEDIACOM 1211 WILKES BLVD. COLUMBIA, MISSOURI 65201 855-633-4226	**TELECOMMUNICATION** SOCKET TELECOM 2703 CLARK LANE COLUMBIA, MISSOURI 65202 573-817-0000
TELECOMMUNICATION MNA BLUEBIRD 573-777-4200	**TELECOMMUNICATION** BRIGHTSPEED 833-363-2360

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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2026

** PRELIMINARY ** NOT FOR CONSTRUCTION

Joseph Tuey
MO PE-2023031972
March 6, 2025

REVISIONS

PROJECT INFO
2023002047

ENGINEER	DRAWN BY	CHECKED BY
RAF	SMH	JT

Shane Steven Creech
Registered Professional Engineer
PE-2007011061

city of Columbia
Public Works

Mission
Provide safe, sustainable Infrastructure that promotes positive communities.

701 East Broadway
P.O. Box 6015
Columbia, MO 65205
(573) 875-2489

Approved By
Director of Public Works
Date

OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
TAP 2101513
COVER

DRAWING NO. 1

P:\2023\2023004704-DRAWINGS\05-PLANS\2023002047 COVER.DWG

REMOVALS							
SHEET	STATION	LOCATION	SAWCUT & REMOVAL OF EX. SIDEWALK (S.Y.)	SAWCUT & REMOVAL OF EX. CURB & GUTTER (S.Y.)			

EROSION CONTROL					
SHEET	STATION	LOCATION	SILT FENCE (L.F.)	INLET PROTECTION (E.A.)	STRAW BALE DITCH CHECK (E.A.)

LINEAR GRADING, CURB & GUTTER AND CONCRETE SIDEWALK								
SHEET	STATION	LOCATION	LINEAR GRADING (L.F.)	2'-6" CONCRETE CURB & GUTTER (L.F.)	4" PCC SIDEWALK (S.F.)	7" PCC PAVEMENT WITH C&G (S.Y.)	6" PCC SIDEWALK RAMP/LANDING (S.F.)	ADA DETECTABLE WARNING PANEL (S.F.)

RETAINING WALL			
SHEET	STATION	LOCATION	REINFORCED CONCRETE WALL (C.Y.)

STORM DRAINAGE						
SHEET	STATION	LOCATION	36" RCP PIPE (L.F.)	36" FLARED END SECTION (E.A.)	TYPE 2 MODOT RIPRAP W/ FILTER FABRIC (S.Y.)	EX. STORM BOX LID ADJUSTMENT (E.A.)

PAVEMENT MARKINGS & SIGNS				
SHEET	STATION	LOCATION	30" WHITE CROSSWALK MARKINGS (L.F.)	SOLAR RFFB WITH SIGNS (E.A.)

UTILITY	
ITEMS	QUANTITY

MOBILIZATION
1 LUMP SUM

BORROW EXCAVATION
XX (C.Y.)

UNSUITABLE MATERIAL
XX (C.Y.)

SEEDING & MULCHING
1 LUMP SUM

CLEARING & GRUBBING
1 LUMP SUM

EXISTING ROADWAY SIGNAGE RELOCATION
1 LUMP SUM

NOTE:
CAD FILE OF THE IMPROVEMENTS WILL BE PROVIDED TO THE SUCCESSFUL BIDDER.

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RAF	SMH	JT

OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
TAP 2101513

SUMMARY OF QUANTITIES

DRAWING NO.

P:\2023\2023002047\04-DRAWINGS\05-PLANS\2023002047 COVER.DWG

ALIGNMENT TABLE						
NUMBER	STATION (START/END)	LENGTH	RADIUS	LINE/CHORD	START NORTHING/EASTING	END NORTHING/EASTING
L1	START:0+00.00 END:0+54.35	54.35		N00°13'42"E	N:1147708.66 E:1696561.63	N:1147763.01 E:1696561.85
L2	START:0+54.35 END:27+19.20	2664.85		N00°58'52"E	N:1147763.01 E:1696561.85	N:1150427.47 E:1696607.48

PROJECT CONTROL POINTS TABLE				
CP#	NORTHING	EASTING	ELEV.	DESCRIPTION
99	1149035.03'	1696561.82'	769.55'	BM / SQUARE CUT
200	1148457.72'	1696602.75'	760.50'	CP / 12 RBC
201	1150364.20'	1696582.59'	705.61'	CP / PK
202	1149363.62'	1696556.87'	757.40'	CP / 12 RBC
203	1147828.41'	1696532.98'	768.82'	CP / 12 RBC
204	1148965.29'	1696555.39'	769.80'	CP / PKNAIL
205	1149838.53'	1696619.20'	718.12'	CP / 12 RBC

N

100 50 0 100

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OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
TAP 2101513

PROJECT CONTROL & ALIGNMENT

DRAWING NO.
3

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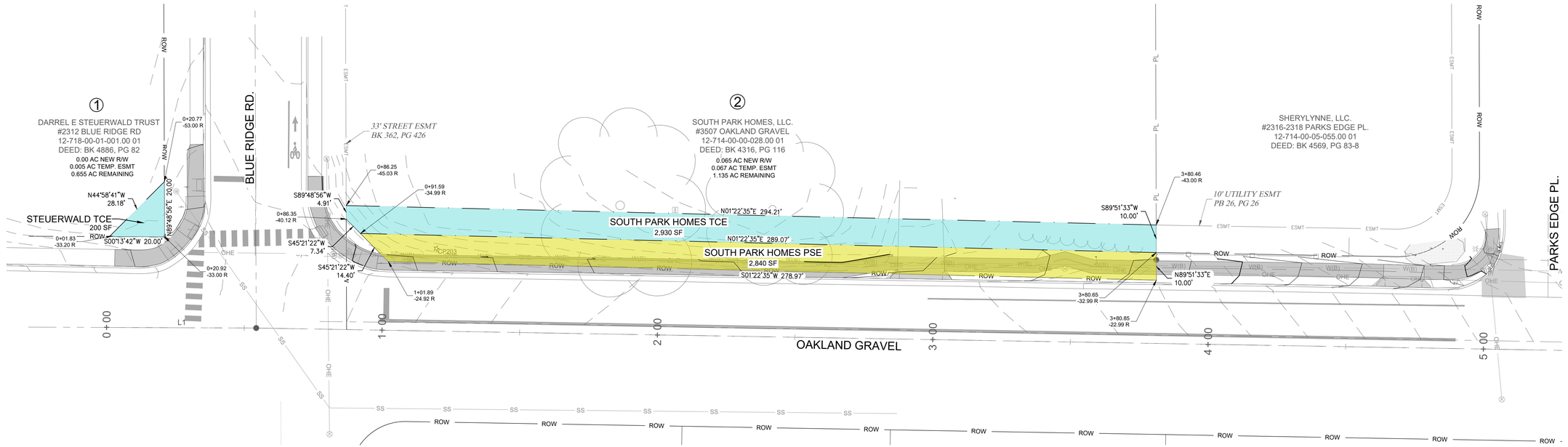

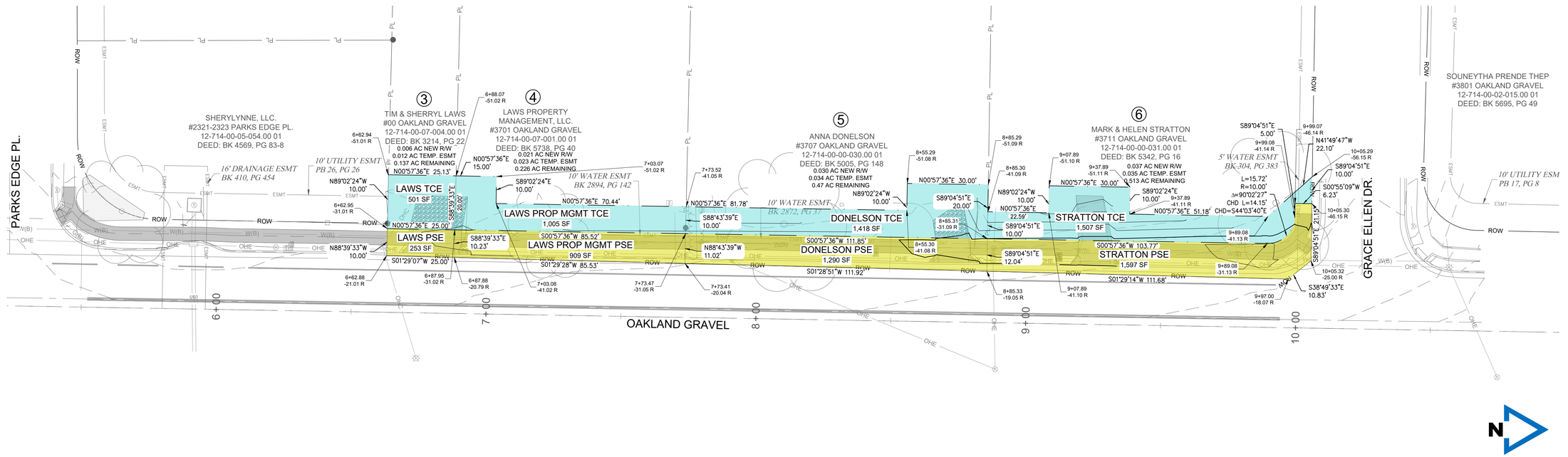

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OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
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RIGHT OF WAY PLAN 1

DRAWING NO.
4

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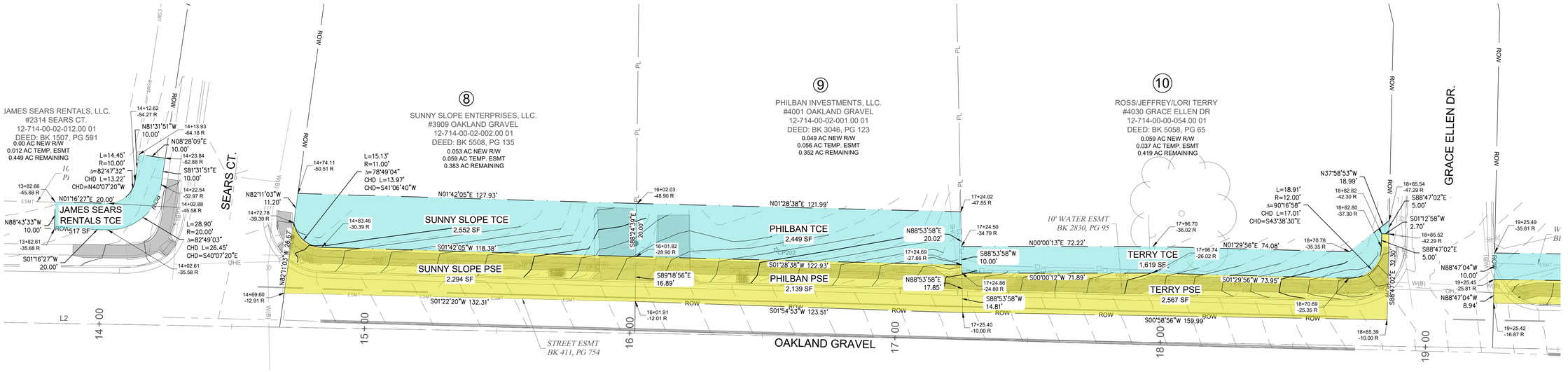

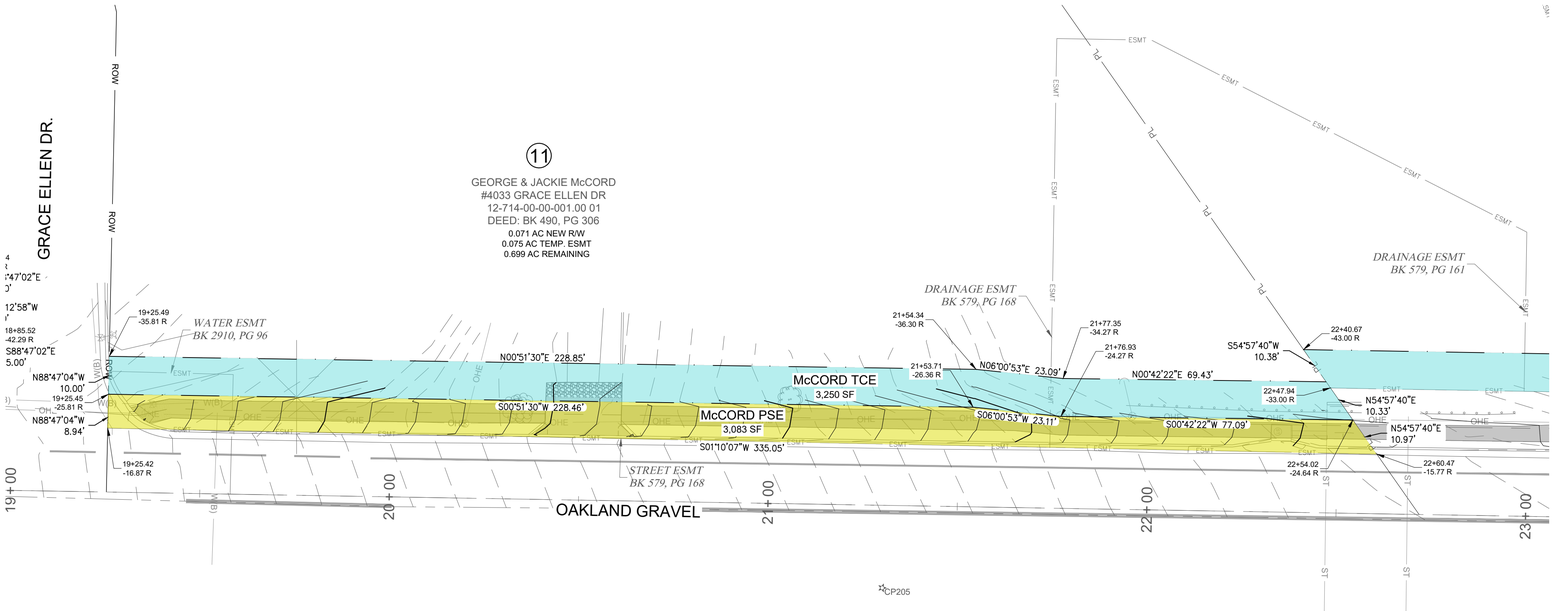

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OAKLAND GRAVEL SIDEWALK
COLUMBIA, MISSOURI
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RIGHT OF WAY PLAN 2

DRAWING NO.
5

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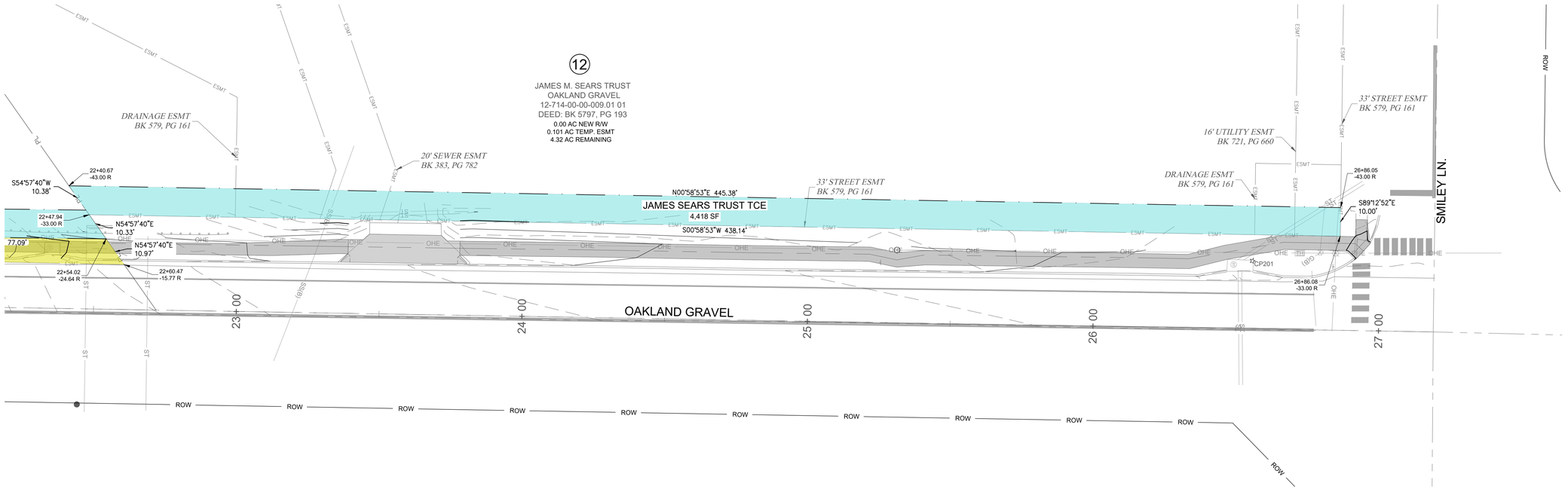

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OAKLAND GRAVEL SIDEWALK
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RIGHT OF WAY PLAN 3

DRAWING NO.
6

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