# CAPITAL IMPROVEMENT PROJECT CIP NO. 650033-100002 BIG WALNUT SANITARY TRUNK EXTENSION, PHASE 2 CITY OF COLUMBUS, OHIO



	EA	SEMENT REF	FERENCE		REVISIONS		PPROVALS: SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE	PROJECT TITLE:
	COUNTY I	RECORDER		NO.	DESCRIPTION	APPROVAL/DATE	REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAIL	BIG WALNUT TRUI
CITY NO.	VOL.	PAGE	GRANTOR				REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART O	CAPITAL IMPR 5 00
							KH Scott Sibley 2/25/2022 Ann Anbry 3/21/2022 THE FRANKLIN COUNTY ENGINEER'S OFFICE IS GIVE FOR WORK WITHIN THE FRANKLIN COUNTY R/W ON	Y. DIVISION USE ONLY
							temer system engineering manager, insign of severage & drainage John Newsone James Jourg 3/1/2022	2
							DMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE DATE Chad Holtyapfel for Patricia austei/25/2022	
							DMINISTRATOR, DMISION OF POWER DATE DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE FRANKLIN COUNTY CLIEF DIPUTY ENGINEER DATE DATE	
							DMINISTRATOR, DMISION OF WATER DATE	





VICINITY MAP

### PROJECT NARRATIVE

THIS PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 12,350 LINEAR FEET OF 72-INCH DIAMETER SANITARY TRUNK SEWER TO BE CONSTRUCTED BY TRENCHLESS MEANS. TBM LAUNCH AND RETRIEVAL SHAFTS AS WELL AS TWO FLOW DROP SHAFTS ARE TO BE CONSTRUCTED ALONG THE ALIGNMENT.

### STANDARD DRAWINGS

THE FOLLOWING LISTED STANDARD DRAWINGS SHALL BE CONSIDERED A PART OF THESE PLANS:

AA-S102	AA-S133B	1441
AA-S107	AA-S141	2010
AA-S110	AA-S149	2202
AA-S111	AA-S150	2230
AA-S114	AA-S151	2300
AA-S117	AA-S153	MT-97.1
AA-S119	L-7401	

### <u>OWNER</u>

CITY OF COLUMBUS CONTACT: ROB HERR, PE ADDRESS: 1250 FAIRWOOD AVE COLUMBUS OH 43206 PHONE: (614) 645–0483 FAX: (614) 645–3801 EMAIL: RCHERR@COLUMBUS.GOV

### FEMA FIRM PANEL SUMMARY

RM PANEL	39049C0201K	39049C0090K	39041C0288k
OOD ZONE	Х	Х	Х
ASE FLOOD EL.	962 FEET	-	923 FEET
FFECTIVE DATE	6/17/2008	6/17/2008	4/16/2009

### EARTH DISTURBED AREA

TOTAL DISTURBED AREA6.15 ACPRE-IMPERVIOUS AREA0.035 ACPOST-IMPERVIOUS AREA0.277 AC

THIS PROJECT IS A LINEAR UTILITY PROJECT EXEMPTING DISTURBANCES IN THE PERMANENT EASEMENT AREA THAT DO NOT CREATE IMPERVIOUS AREA. THE PROPOSED IMPERVIOUS AREA IN THE PERMANENT EASEMENT IS RELATED TO THE UTILITY ITSELF AND IS ALSO BELOW THE 2,000 SF THRESHOLD AT TWO SHAFT SITES, THEREFORE THESE IMPERVIOUS AREA ADDITIONS ARE EXEMPT FROM THE MANUAL'S REQUIREMENTS ON WATER QUALITY AND QUANTITY. TWO SHAFT SITES ARE GREATER THAN THE 2,000 SF THRESHOLD AND WILL REGUIRES TREATMENT OF WATER QUALITY AND QUANTITY. THE IMPERVIOUS AREA CREATED IN THE R/W IS EXEMPT FOR THE SITES WITH LESS THAN 2,000 SF OF ADDITIONAL AREA EXCEPT THE SHARED USE PATH ON THE SHAFT 2A SITE, WHICH IS BEING TAKEN CARE OF BY HOOVER FARMS, 3642-E.

CALL 1-800-362-2764 OR DIAL 811



OHIO 🦳

**Utilities Protection** 

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SERVICE

TOPOGRAPHICAL AND CONTROL DATA PER FIELD SURVEYS PROVIDED BY STANTEC CONSULTING SERVICES INC.

NOTE:

SANITARY SEWER NOTE: CONNECTION TO SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM THE SEWER PERMIT OFFICE AT 111 N. FRONT STREET. 645–7490 CITY OF COLUMBUS

### INK EXTENSION PHASE 2 ROVEMENTS PROJECT 033-100002

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

100002											
	OWNER										
	CONTRACTOR										
	INSPECTOR				SCALE:	SHEET:	$C_{-1}$	(1	of	68)	
	AGREEMENT COMPLETED		IPLETED		AS NUTED		6-1	<u> </u>		00,	
	RPD CKD		CLD	CON. DR.	CONTRACT	DRAWING NO.	RECORD	PLAN NO.			

CC-18351

PHASE 2

INDEX NO.	SHEET NO.	GENERAL
1	G-1	TITLE SHEET
2	G-2	DRAWING INDEX
3	G-3	LEGEND AND SYMBOLS
4	G-4	ABBREVIATIONS
5	G-5	GENERAL NOTES SHEET 1 OF 2
6	G-6	GENERAL NOTES SHEET 2 OF 2
7	G-7	TRIBUTARY AREA MAP
8	G-8	STORM WATER POLLUTION PREVENTION PLAN DETAILS AND NOTES / SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES
9	G-9	STORM WATER POLLUTION PREVENTION PLAN DETAILS AND NOTES
10	G-10	SEDIMENT AND EROSION CONTROL PLAN - SHAFTS 1 AND 2
11	G-11	SEDIMENT AND EROSION CONTROL PLAN - SHAFT 2A
12	G-12	SEDIMENT AND EROSION CONTROL PLAN – SHAFT 3
13	G-13	MISCELLANEOUS NOTES & DETAILS

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15	C-2	HORIZONTAL AND VERTICAL CONTROL
16	C-3	HORIZONTAL AND VERTICAL CONTROL
17	C-4	SOIL BORINGS AND OBSERVATION WELL PLAN
18	C-5	PLAN AND PROFILE STA 0+00 TO STA 16+00
19	C-6	PLAN AND PROFILE STA 16+00 TO STA 33+00
20	C-7	PLAN AND PROFILE STA 33+00 TO STA 50+00
21	C-8	PLAN AND PROFILE STA 50+00 TO STA 64+50
22	C-9	PLAN AND PROFILE STA 64+50 TO STA 79+00
23	C-10	PLAN AND PROFILE STA 79+00 TO STA 96+00
24	C-11	PLAN AND PROFILE STA 96+00 TO STA 112+50
25	C-12	PLAN AND PROFILE STA 112+50 TO STA 123+51
26	C-13	SUBTRUNK PROFILES

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28	SP-2	SHAFT 2A CONSTRUCTION CONDITIONS
29	SP-3	SHAFT 2A EX PUMP STATION DEMO PLAN AND DETAILS
30	SP-4	SHAFT 2 CONSTRUCTION CONDITIONS
31	SP-5	SHAFT 3 CONSTRUCTION CONDITIONS
32	SP-6	STORM PROFILES AND DETAILS

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34	DT-2	TYPICAL TUNNELING SECTIONS 2 OF 2
35	DT-3	TUNNEL GROUTING DETAILS

	EASEMENT REFERENCE		REVISIONS			PLAN PREPARED BY:		PROJECT TITLE:
CITY NO.	INSTRUMENT NUMBER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			BIG WALNUT TRU CAPITAL IMP 650
							DRAWING INDEX	DIVISION USE ON
						Stantec Consulting Services Inc. 1500 Lake Shore Drive, Suite 100 Columbus OH 43204-3800		
						Tel: 614.486.4383 www.stantec.com		

INDEX NO.	SHEET NO.	STRUCTURAL
36	S-1	GENERAL NOTES AND DETAILS
37	S-2	SHAFT 1 INITIAL SUPPORT & CONNECTION TO EXISTING TUNNEL
38	S-3	SHAFT 3 INITIAL SUPPORT
39	S-4	SHAFT INITIAL SUPPORT DETAIL
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41	S-6	SHAFT 2 DROP STRUCTURE SECTIONS
42	S–7	SHAFT 2 DROP STRUCTURE DETAILS
43	S–8	SHAFT 2A DROP STRUCTURE PLANS
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45	S-10	SHAFT 3 DROP STRUCTURE PLANS
46	S-11	SHAFT 3 DROP STRUCTURE SECTIONS
47	S-12	SHAFT 3 DROP STRUCTURE PLAN, SECTIONS, AND DETAILS
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50	GI-2	INSTRUMENTATION SCHEDULE
51	GI-3	INSTRUMENTATION PLAN STA 0+00 TO STA 62+00
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54	R-2	SHAFT 1 SUBGRADE AND RESTORATION PLAN
55	R-3	SHAFT 2A SITE RESTORATION PLAN
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57	R-5	SHAFT 3 FINAL GRADING AND RESTORATION PLAN
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61	RW-3	STA 22+00 TO STA 50+00
62	RW-4	STA 50+00 TO STA 75+00
63	RW-5	STA 75+00 TO STA 106+00
64	RW-6	STA 106+00 TO STA 123+51
65	RW-7	SHAFT SITES 1, 2, AND 2A
66	RW-8	SHAFT SITE 3

INDEX NO.	SHEET NO.	MAINTENANCE OF TRAFFIC
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68	MOT-2	HAUL ROUTE PLAN

UNK EXTENSION PHASE 2 PROVEMENTS PROJECT 0033-100002							AGE ANE	D DRAINA	ÂGE		
ILY	OWNER										
	CONTRACTOR										
	INSPECTOR		SCALE:	NOT TO SCALE	SHEET:	6-2	(2	of	68)		
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	RPD	CKD	CLD	CON. DR.	CONTRAC	T DRAWING NO.	RECORD	PLAN NO.			
						CC-18351					

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES

# SECTION AND DETAIL IDENTIFICATION SYSTEM



	EASEMENT REFEREI	INCE		REVISIONS		PLAN PREPARED BY:		PROJECT TITLE:		CITY OF DEPARTMENT O	- COLUMBUS DF PUBLIC UTILITIES
CITY NO.	INSTRUMENT NUMBER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	<b>Stantec</b>		BIG WALNUT TRUNK E CAPITAL IMPROVEN 650033-	XTENSION PHASE 2 IENTS PROJECT 100002	DIVISION OF SEWE	RAGE AND DRAINAGE
							LEGEND AND SYMBOLS	DIVISION USE ONLY	OWNER		
									CONTRACTOR		
						Stantec Consulting Services Inc.			INSPECTOR	SCALE:	SHEET: $C = 3$ (3 of 68)
						1500 Lake Shore Drive, Suite 100			AGREEMENT COMPLETED	N/A	
						Tel: 614.486.4383			RPD CKD CLD CON. DF	· CONTRACT DRAWING NO.	RECORD PLAN NO.
						www.stantec.com				CC-18351	

# <u>SYMBOLS</u>

V	ΕX	SOURCE MONUMENT
<del>¢</del>	ΕX	TEMPORARY BENCHMARK
A	ΕX	CONTROL POINT
0	ΕX	SIGN
мв	ΕX	MAILBOX
¢	ΕX	STREET LIGHT
(M)	ΕX	ELECTRIC METER
e	ΕX	ELECTRIC MANHOLE
$\bowtie$	ΕX	ELECTRIC TRANSFORMER
S	ΕX	ELECTRIC PED. BOX
ф	ΕX	ELECTRIC POLE
Þ	ΕX	ELEC/TELE POLE
É	ΕX	ELEC/LIGHT POLE
Ē	ΕX	ELEC/LIGHT/TELE POLE
\$	ΕX	TRAFFIC POLE
$\overline{\phi}$	ΕX	TELEPHONE POLE
Т	ΕX	TELEPHONE PED. BOX
$\phi$	ΕX	UTILITY POLE
<u>ن</u>	ΕX	GAS METER
Ø <sup>G∨</sup>	ΕX	GAS VALVE
S	ΕX	SANITARY MANHOLE
ST	ΕX	STORM MANHOLE
	ΕX	STORM CATCH BASIN
2	ΕX	CURB AND GUTTER INLET
	ΕX	CULVERT END
Q	ΕX	FIRE HYDRANT
$\otimes$	ΕX	WATER VALVE
Ŵ	ΕX	POTABLE WATER WELL
(ŵ)	EX	ABANDONED WATER WELL
<b>⊗</b>	EX	MONITORING WELL
<b>₽</b>	ΕX	BORING LOCATION
•	FLA	G POLE
₩ m	EX	CONIFEROUS TREE
i e e e e e e e e e e e e e e e e e e e	EX	DECIDUOUS IREE
(m)	EX	BUSH OK SHRUB
$\sim$	ΕX	IREE LINE
	PR	ΟΡ SANITARY ΜΔΝΗΟΙ Γ
5	PR	OP TUNNEL SHAFT
	PR	OP CATCH BASIN

# HATCHES



EXISTING EASEMENTS

PROPOSED PERMANENT EASEMENTS

EXISTING TEMPORARY EASEMENTS

PROPOSED TEMPORARY EASEMENTS

PROPOSED GRAVEL CONSTRUCTION DRIVE

PROPOSED CONCRETE APRON

STABILIZED WORK AREA

PROPOSED CONCRETE PAVERS

4 4 4

ASPHALT DRIVE APRON

PROPOSED FULL DEPTH PAVEMENT REPAIR

# LINE TYPES

	CENTERLINE OF ROAD
	EX PROPERTY LINE
	EX EASEMENT
R/W	EX RIGHT-OF-WAY
	CITY OF COLUMBUS CORP LINE
G	EX GAS
S	EX SANITARY
ST	EX STORM
W	EX WATER
E	EX ELECTRIC-UNDERGROUND
OHE	EX ELECTRIC-OVERHEAD
	EX ELEC/TEL-OVERHEAD
	EX TELEPHONE-UNDERGROUND
OHT	EX TELEPHONE-OVERHEAD
CA	EX CABLE-UNDERGROUND
F0	EX FIBER OPTIC-UNDERGROUND
COM	EX COMMUNICATION-UNDERGROUND
OHC	EX COMMUNICATION-OVERHEAD
OHCT	EX COM/TEL-OVERHEAD
TRC	EX TRAFFIC CONTROL
E/P	EX EDGE OF PAVEMENT
— <u>X</u> X X	EX FENCE
	EX GUARDRAIL
	EX CENTERLINE OF DITCH/SWALE
SF	PROP SEDIMENT FENCE
——————————————————————————————————————	PROP FENCE
	PROP SANITARY TUNNEL
ST	PROP STORM SEWER

# DRAWING GROUPS

- G GENERAL
- C CIVIL
- SP SITE PLANS
- DT TUNNELING DETAILS
- S STRUCTURAL
- R RESTORATION
- GI GEOTECHNICAL INSTRUMENTATION
- RW RIGHT-OF-WAY & EASEMENTS
- MOT MAINTENANCE OF TRAFFIC

DRAWING IDENTIFICATION SYSTEM

GROUP IDENTIFIER SHEET NUMBER WITHIN CATEGORY C-8 (5 of 68) SHEET NUMBER WITHIN PLAN SET OF SHEETS IN PLAN SET

### CODED NOTES

NOTE NUMBER

/-- NOTE NUMBER

REMOVE AND DISPOSE OF PIPE AND FITTINGS

└─ ITEM DESCRIPTION, INSTRUCTIONS, OR OTHER INFORMATION

# ABBREVIATIONS

&	AND		
0	AT	CON	CONDUIT
,	FEET/MINUTE	CONC	CONCRETE
"	NCHES /SECOND	COND	CONDUCTOR
11		CONST	CONSTRUCTION
#	NUMBER	CONT	CONTINUOUS
/	PER, AND, OR, OR	CORP	CORPORATION
%	PERCENT	COT	CONTROL OBSERVATION WELL
±	PLUS OR MINUS	CSK	
Ø	ROUND, DIAMETER	CT	COUPT
Ę	CENTERLINE		
R	PROPERTY LINE	CIV	CABLE TELEVISION
•	DEGREE	CU	COPPER
/		CW	CLOCKWISE
		CY	CUBIC YARD
	AMDEDE		
	AMERICAN ASSN OF STATE LICUMAY AND TRANSPORTATION OFFICIALS	DB	DEEP BENCH MARK
AASHIU	AMERICAN ASSN OF STATE HIGHWAT AND TRANSPORTATION OFFICIALS	DECO	DELAWARE COUNTY ENGINEER'S OFFICE
A ESMNI	ACCESS EASEMENT	DEG	DEGREE
AC		DET	DETAIL
ACI	AMERICAN CONCRETE INSTITUTE	DI	
ADD'L	ADDITIONAL		DIAMETER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION		
AL	ALUMINUM		
APPROX	APPROXIMATE/APPROXIMATELY		
AQCF	AIR QUALITY CONTROL FACILITY		
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	DIST	
ATS	AUTOMATIC TRANSFER SWITCH	DND	DO NOT DISTURB
ATG	ADJUST TO GRADE	DOP	DIVISION OF POWER
AWG	AMERICAN WIRE GALLGE	DOSD	DIVISION OF SEWERAGE AND DRAINAGE
AWS		DR	DRIVE
	AMERICAN WATER WORKS ASSOCIATION	DWG	DRAWING
	AMERICAN WATER WORKS ASSOCIATION	DWL(S)	DOWEL(S)
B/C	BACK OF CURB	E	EAST, EASTING
B/C BLDG	BACK OF CURB BUILDING	E E/P	EAST, EASTING EDGE OF PAVEMENT
B/C BLDG BM	BACK OF CURB BUILDING BENCHMARK	E E/P EA	EAST, EASTING EDGE OF PAVEMENT EACH
B/C BLDG BM BH	BACK OF CURB BUILDING BENCHMARK BULKHEAD	E E/P EA EF	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE
B/C BLDG BM BH BO	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS	E E/P EA EF FJ	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT
B/C BLDG BM BH BO BOT	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM	E E/P EA EF EJ FI	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION
B/C BLDG BM BH BO BOT BWSTE	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION	E E/P EA EF EJ EL	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC
B/C BLDG BM BH BO BOT BWSTE	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION	E E/P EA EF EJ EL ELEC EMBD	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT
B/C BLDG BM BH BO BOT BWSTE	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION	E E/P EA EF EJ EL ELEC EMBD EMS	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM
B/C BLDG BM BH BO BOT BWSTE CA CB	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN	E E/P EA EF EJ EL ELEC EMBD EMS	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM
B/C BLDG BM BH BO BOT BWSTE CA CB CC	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER	E E/P EA EF EJ EL ELEC EMBD EMS ENG	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT
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B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCW CDF CL	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CCW CDF CI	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW	EAST, EASTING EDGE OF PAVEMENT EACH EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CCFRPMP C/C CDF CDF CI CF CF S	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF	EAST, EASTING EDGE OF PAVEMENT EACH EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CCW CDF CI CF CFS	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCEO	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CCFRPMP C/C CCF CFS CG	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FCEO	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY
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B/C BLDG BM BH BO BOT BWSTE CA CB CC CC CCFRPMP C/C CC CCFRPMP C/C CC CCF CF CDF CI CF CF CF CF CF CF CF CF CF CF CF CG CG &I CI CF	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCEO FCDF FCEO FEMA FF	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CDF CDF CI CF CF CF CF CF CG CG&I CI CF CJ	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET PER SECOND CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FEMA FF FH FIG	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE
B/C BLDG BM BH BO BOT BWSTE CA CB CC CCFRPMP C/C CCFRPMP C/C CCFRPMP CJ CF CG CF CF CF CF CF CF CF CF CF CF CF CF CF	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FEMA FF FH FIG	EAST, EASTING EDGE OF PAVEMENT EACH EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT BREAKER	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCEO FCDF FCEO FEMA FF FH FIG FL	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE FLANGE
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СВ</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СС</li> <li>СО</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT BREAKER CIEAR, CLEARANCE	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FEMA FF FH FIG FL FLG	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FLOWLINE FLOWLINE FLANGE FLOWLINE FLANGE FLOWLINE
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СВ</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT BREAKER CLEAR, CLEARANCE CORRUGATED METAL PIPE	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FEMA FF FH FIG FL FLG FL	EAST, EASTING EDGE OF PAVEMENT EACH EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FLOWLINE FLANGE FLOWLINE FLANGE FIRE HYDRANT
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CONSTRUCTION JOINT CIRCUIT CIRCUIT BREAKER CLEAR, CLEARANCE CORRUGATED METAL PIPE CONSTRUCTION AND MATERIAL SPECIFICATIONS	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCEO FCDF FCEO FEMA FF FH FIG FL FLG FL FLG	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE FLANGE FIRE HYDRANT 100-YEAR FLOODPLAIN
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT CIRCUIT BREAKER CLEAR, CLEARANCE CONSTRUCTION AND MATERIAL SPECIFICATIONS COLUMBUS	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCDF FCDF FCEO FEMA FF FH FIG FL FLG FL FLG FH	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE FLANGE FIRE HYDRANT 100-YEAR FLOODPLAIN FOUND
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СВ</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT CIRCUIT BREAKER CLEAR, CLEARANCE CORSTRUCTION AND MATERIAL SPECIFICATIONS CONSTRUCTION AND MATERIAL SPECIFICATIONS CONSTRUCTION AND MATERIAL SPECIFICATIONS CONSTRUCTION AND MATERIALS SPECIFICATIONS COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCEO FEMA FF FH FIG FL FLG FL FLG FL FLG FND FO	EAST, EASTING EDGE OF PAVEMENT EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE FLANGE FIRE HYDRANT 100-YEAR FLOODPLAIN FOUND FIBER OPTIC
<ul> <li>В/С</li> <li>ВLDG</li> <li>ВМ</li> <li>ВН</li> <li>ВО</li> <li>ВОТ</li> <li>ВWSTE</li> <li>СА</li> <li>СС</li> <li>С</li></ul>	BACK OF CURB BUILDING BENCHMARK BULKHEAD BY OTHERS BOTTOM BIG WALNUT SANITARY TRUNK EXTENSION CABLE CATCH BASIN DOSD DRAWING IDENTIFICATION NUMBER CENTRIFUGALLY CAST FIBER REINFORCED POLYMER MORTAR PIPE CENTER TO CENTER COUNTERCLOCKWISE COUNTERCLOCKWISE CONTROLLED DENSITY FILL CAST IRON CUBIC FEET CUBIC FEET CUBIC FEET PER SECOND COLUMBIA GAS CURB & GUTTER INLET CAST IN PLACE CONSTRUCTION JOINT CIRCUIT CIRCUIT CIRCUIT CIRCUIT BREAKER CLEAR, CLEARANCE CORRUGATED METAL PIPE CONSTRUCTION AND MATERIAL SPECIFICATIONS COLUMBIS CONSTRUCTION AND MATERIAL SPECIFICATIONS CONSTRUCTION MANAGEMENT TEAM COMPANY	E E/P EA EF EJ EL ELEC EMBD EMS ENG ESMNT EX EXP EW F'C FCDF FCDF FCEO FEMA FF FH FIG FL FLG FL FLG FL FLG FH FJP FND FO	EAST, EASTING EDGE OF PAVEMENT EACH EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRIC EMBEDMENT ENVIRONMENTAL MANAGEMENT SYSTEM ENGINEER, ENGINEERING EASEMENT EXISTING EXPOSED EACH WAY COMPRESSIVE STRENGTH OF CONCRETE FLOWABLE CONTROLLED DENSITY FILL FRANKLIN COUNTY ENGINEER'S OFFICE FEDERAL EMERGENCY MANAGEMENT AGENCY FLEXURAL STRESS IN FIBER REINFORCED PLASTIC SHAPES FIRE HYDRANT FIGURE FLOWLINE FLANGE FIRE HYDRANT 100-YEAR FLOODPLAIN FOUND FIBER OPTIC FIBERGLASS REINFORCED PLASTIC

EASEMENT REFERENCE						PLAN PREPARED BY:	
NO.	INSTRUMENT NUMBER	GRANTOR	NO.	DESC	RIPTION	APPROVAL/DATE	
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Stantec

# ABBREVIATIONS

PROJECT TITLE: BIG WALNUT TR CAPITAL IMF 650
BIG WALNUT TR CAPITAL IMF 650
DIVISION USE OF

LI         No. Desc.         No. Models           No. Desc.         No. Models         No. Models           AC         ALSE         No. Models           ALSE         No. Models         Distribution           ALSE         Distribution         No. Models           ALSE         Distribution         Distribution           ALSE         Distribution         Distribution           ALSE         Distribution         Distribution           ALSE         Distribution         Distribution           ALSE <th>FT</th> <th>FEET</th> <th>NGS</th> <th>NATIONAL GEODETIC SURVEY</th>	FT	FEET	NGS	NATIONAL GEODETIC SURVEY
PT         PLU SHERDIN PRODUCT, SHEL AG VELOD WAL KARVO         MOD         VELOD SHERDIN PROJECTIONAL SHEL AG VELOD WAL KARVO           CC         DASK WAL         NAT         WATENAN FOR TERMAN FOR TERMANEN RESULTION ADDRESS TERMANEN RESULTION ADDRESS TERMANENT SHERDINGS           CC         DASK WAL         NAT         WATENAN FOR TERMANENT FOR ADJACON RESTING           CAU         DELANAL         ONT SOL DEWELTER         TERMANENT FOR ADJACON RESTING           CAU         DELANAL         ONT SOL DEWELTER         TERMANENT FOR ADJACON RESTING           CAU         DEMEMANENT         ONT SOL DEWELTER         TERMANENT           DEMEMANENT         DEMEMAN	FUT	FUTURE	NO.	NUMBER
A. OLDE     NIDES     NIDES     NIDES     NIDES     NIDES       GL     OLDE     NID     NID     NID     NID       GL     OLDE     NID     NID     NID     NID       GL     OLDE     NID     NID     NID     NID       GL     OLDE     OLDE     NID     NID     NID       GL     OLDE     OLDE     OLDE     OLDE     NID       ID     ID     NID     NID     NID     NID       ID     NID	FY	YIELD STRENGTH OF STRUCTURAL STEEL AND WELDED WIRE FABRIC	NOI	NOTICE OF INTENT
acs     bes Mark     NUT     NUT ME THE IMPERD       act     getter     Setter     Setter       act     getter     Construct of Setter       bit     Internation     Construct of Setter   <	GA	GAUGE	NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM
BALL     BALL     No.     BALL       BALL     BALL     BALL     BALL       BALL     BALL     BALL     BALL       BALL     CHARAL     CAR     CAR CONTRAL       CAR     CAR CONTRAL     CAR CONTRAL     CAR CONTRAL       CAR     BALL     BALL     BALL       CAR     CAR CONTRAL     CAR     CAR CONTRAL       CAR     BALL     BALL     BALL       BALL     BALL     CAR CONTRAL     CAR       BALL     BALL     BALL     BALL       BALL     BALL     CAR CONTRAL     CAR       BALL     BALL     BALL     CAR       BALL     BALL     BALL     BALL       BALL     BALL     B	GAS	GAS MAIN	NPT	NATIONAL PIPE THREAD
BAV         GUNALED           GUN GUNALED         GUN	GAL	GALLON	NTS	NOT TO SCALE
SH     BUBBAL     CD     OUTSILE MARKER       SR     SR0053     CARLE     COT     OUTSILE MARKER       SR     SARLE     COT     OUTSILE MARKER       SR     SR0053     CARLE     COT     OUTSILE MARKER       SR     SR0054     CARLE     COMMUNICATIONS       SR     SR0054     CARLE     CARLE       SR     SR0054     CARLE     CARLE </td <td>GALV</td> <td>GALVANIZED</td> <td></td> <td></td>	GALV	GALVANIZED		
0.5     CROUND	GEN	GENERAL	OD	OUTSIDE DIAMETER
BR     BR/B     COLD     CRU DINUM MICH MICH MICH MICH MICH MICH MICH MIC	GND	GROUND	ODNR	OHIO DEPARTMENT OF NATURAL RESOURCES
CV         GAS         SERVICE VALUE         GPA         OHE         SURVADURAL FIGUENDA ADENCY           ID         LCANY DUTY         GPA         OCTISAD         GPA         OCTISAD         GPA           ID         LCANY DUTY         GPA         OCTISAD         GPA	GR	GRAVEL	ODOT	OHIO DEPARTMENT OF TRANSPORTATION
Hor AVY DAYCity and AVY DAYHX4XAD MALCity and AUX MALACINONSHX4XAD MALCity and AUX MALACINONSHX4XAD MALACINONSCity and AUX MALACINONSHX4XA	GV	GAS SERVICE VALVE	OEPA	OHIO ENVIRONMENTAL PROTECTION AGENCY
H2-WH2			ОН	OVERHEAD
I.X.IDAGONALOHETOVERFACE OUT/TELIDAGONAL CONTRALHEOPERAD CONTRAL CENTRALIPHORSEPOREOHETOVERFACE DECTRALIPHERAOUTOVERFACE DECTRALIPHERAOUTOVERFACE DECTRALIPHERAOUTOVERFACE DECTRALIPHERAOUTOVERFACE DECTRALIPHERAOVERFACE DECTRALOVERFACEIPHERAOVERFACE DECTRALOVERFACEIPHERAOVERFACEOVERFACEIPHERAOVERFAC	HD	HEAVY DUTY	OHC	OVERHEAD COMMUNICATIONS
HORE HORENOME HORENOME HORENOME HORENOME HORENOME HERHORENOME HORENOME HERHORENOME HORENOME HERHORENOME HORENOME HERHORENOME HORENOME HERHORENOME <br< td=""><td>HEX</td><td>HEXAGONAL</td><td>ОНСТ</td><td>OVERHEAD COM/TEL</td></br<>	HEX	HEXAGONAL	ОНСТ	OVERHEAD COM/TEL
IPIONSEPORE CONTROL CAPTEROPEOPERADCONTROL CAPTERICICENTZOPENADOPENADCONTROL DEVICESICNELEXONATEROPENADOPENADOPENADIDNADE DAMEREROPENADOPENADOPENADIDNADE DAMERER<	HORIZ	HORIZONTAL	OHE	OVERHEAD ELECTRIC
HT     HEBRIT     HEBRIT     HEBRIT       12     HEBRIT     OWNED OWNEDAL, OF UNDERNE TRAFFIC CONTROL DEVICES       12     HEBRIT     OPPOSITE       10     HEBRIT     OPPOSITE       10     HEBRIT     OPPOSITE       11     HEBRIT     OPPOSITE       12     HEBRIT     OPPOSITE       14     HEBRIT     OPPOSITE       15     HEBRIT     OPPOSITE       16     HEBRIT     OPPOSITE       17     HEBRIT     OPPOSITE       18     HEBRIT     OPPOSITE       19     HEBRIT     PARTITICAL PERDENTION       19     HEBRIT     PARTITICAL PERDENTION       10     UNCTORN HONT     POR       11     HEBRIT     PARTITICAL PERDENTION       12     UNCTORN HONT     POR       13     HEBRIT     PARTITICAL PERDENTION       14     HEBRIT     PARTITICAL PERDENTION       15     FOUNDITICAL PERDENTION     PARTITICAL PERDENTION       14     FOUNDITICAL PERDENTION     <	HP	HORSEPOWER	OHET	OVERHEAD FLEC/TEL
NZ     NUTC     ONLOG     ONLOG     ONLOG     ONLOG       NZ     MUTC     ONLOG     ONLOG     ONLOG     ONLOG     ONLOG       N     NUTC     NUTC     ONLOG     ONLOG<	HT	HEIGHT		
C         NOLLMON_LUR         COMM DATURAL OF MERCASING COMPLEXANCES           C         NICLEMON_LUR         OPPAGIS         OPPAGIS         OPPAGIS           F         NISUE DALLER         OPP         OPPCSITE         OPPAGIS           F         NISUE TASE         OPP         OPPCSITE         OPPCSITE           F         NISUE TASE         OPP         OPPCSITE         OPPCSITE           NISUE TASE         OPPC         OPPCSITE         OPPCSITE         OPPCSITE           NISUE TASE         OPPCSITE         OPPCSITE         OPPCSITE         OPPCSITE           J         JUNCTOR TASE TASE         PROF         PROF         PROF         OPPCSITE           J         JUNCTOR TASE TASE         PROF         PROF         PROF         PROF           J         JUNCTOR TASE TASE         PROF         PROF         PROF         PROF           J         JUNCTOR TASE TASE TASE         PROF         PROF <t< td=""><td>HZ</td><td>HERTZ</td><td></td><td>OVERNEAD TELEFITIONE</td></t<>	HZ	HERTZ		OVERNEAD TELEFITIONE
NCLINGNETER         OPENATION         OPENATION           ID         NISDE DANJER         OPENATION         OPENATION           ID         NISDE DANJER         OPENATION         OPENATION           ID         NISDE DANJER         OPENATION         OPENATION           IN         NEM         NACH         OURS         OWID OFENATION           IN         NEM         NACH         OPENATION         OPENATION           IN         NERT         P         P         F           IN         UNCTION SON         NOT         P         P         F           IN         UNCTION FILL SON         P         P         P         P           IN         UNCTION FILL SON         P         P         P         P           IN         UNCTION FILL SON         P         P         P         P				OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
INSIDE DWATTER     OPP OPPOSITE       IN     INCH     OUTSIDE DROP       IN     INCH     OUTSIDE DROP       INC     INCORFORMED     OUTSIDE DROP       INC     INCURFORMED     OW     ORSTRATION VIEL       INT     INCE     NOUTSIDE     POLE       INT     INCENTION     POLE     POLE       INT     INT     POLE     POLE       INT     POLE <t< td=""><td>IC</td><td></td><td>OPNG(S)</td><td>OPENING(S)</td></t<>	IC		OPNG(S)	OPENING(S)
INSTEL FACE         ORC         OHIO REVEED CODE           IN         INC         INCORPORATED         OURS         OHIO UTLITY PROTECTION SERVICE           IN         INCORPORATED         OURS         OHIO UTLITY PROTECTION SERVICE           INC         INCORPORATED         OURS         OHIO UTLITY PROTECTION SERVICE           INC         INCORPORATED         POLE         POLE           INC         INCORPORATE         POLE         POLE           JUNCTON BOX         PE         PORTALE CONCEPTE DARREE         POLE           JUNCTON BOX         REPRESSION         PE         PERSTERSSED CONCEPTE ONITORE           KAR         RICOCITS ANTERES         PERSTERSSED CONCEPTE ONITORE         PERSTERSSED CONCEPTE ONITORE           KAR         RICOCITS ANTERES         PERSTERSSED CONCEPTE ONITORE         PERSTERSSED CONCEPTE ONITORE           KAR         RICOCITS ANTERES         PERSTERSSED CONCEPTE ONITORE         PERSTERSSED CONCENTE ONITORE           KAR         RICOCI	ID	INSIDE DIAMETER	OPP	OPPOSITE
Image: Instance         OSD         OUTSIDE ORDP           NCH         OUDS OND PATENTS         OUDS OND PATENTS           NC         INCORPORATED         OW         OBSERVATION WELL           NC         INCORPORATED         OW         OBSERVATION WELL           NV         INVERT         P         FOR         FOR           NV         INVERT         P         FOR         FOR           NV         INVERT         P         FOR         FORMARE           NV         INVERTOR BOX         PC         POINT OF CURRATURE           JUNCTION BOX         PC         POINT OF CURRATURE         FOR           JUNCTION BOX         PC         POINT OF CURRATURE         FOR           JUNCTION BOX         PC         POINT OF CURRATURE         FOR           JUNCTION BOX         PC         POINT OF CURRATURE CONCRETE OF INT         PC           KILDWOIT         MURP EES-REACTIVE         PH         PIAR         POINT OF THERSECTION           KW         RUMORT         POINT OF THERSECTION         PC         POINT OF THERSECTION           LIF         INCOMPTICE         POINT OF THERSECTION         PC         POINT OF THERSECTION           LIF         INCOMPTICE         PS	IF	INSIDE FACE	ORC	OHIO REVISED CODE
Number         Outs         OHIO UTUTY PROFIDA         SERVICE           NCL         NOCORPORATED         OW         OBSERVATION WELL           NM         NACH         P         POLE           P, IPP         RON PIN, RON PIN FOUND         P         POLE           JUNCTION BOX         PC         PORTALE CONCRETE DARMERT         PC           JUNCTION BOX         PC         PORTALE CONCRETE CUNDER PIPE         PC           ALL         JUNCTION BOX         PC         PORTALE CONCRETE CUNDER PIPE           JUNCTION BOX         RESTRESSED CONCRETE CUNDER PIPE         PC           KKI         KUDOUTS AMPERS         PC         PORTALE CONCRETE CUNDER PIPE           KKI         KUDOUTS AMPERS         PC         PORTALE CONCRETE CUNDER PIPE           KKI         KUDOUTS AMPERS         PC         PARSE           KAN         KUDOUTS AMPERS         PC         PARSE           KAN         KUDOUTS AMPERS         PC         PARSE           KAN         KUDOUTS AMPERS         PORTALE CONCRETE CUNDER PIPE           KAN         KUDOUTS AMPERS         PORTALE CONCRETE CUNDER PIPE           KAN         KUDOUTS AMPERS         PORTALE CONCRETE CUNDER PIPE           KAN         KUDOWAT HOUR         P	IN		OSD	OUTSIDE DROP
Not include     Not include     Own Geservation Well       NY     INVERT     P     PollE       NY     INVERT     P     PollE       NY     INVERT     P     PollE       NY     JUNCTION BOX     PC     POINT COLLINATION ACCESS EASEMENT       J     JUNCTION BOX     PC     POINT COLLINATION ENDITIES       KINK     KICKNET AMPERTS     PA     PARESE       KVAR     KICKNET AMPERTS     PA     POINT COLLINATION ENDITIES       KVAR     KICKNET AMPERTS     PL     POINT COLINS PER LINEAR FOOT       KWAR     KICKNET AMPERTS     PL     POINT COLINS PER LINEAR FOOT       LOF     LOVAT COLLINAT CONCRETE FILL     PL     POINT COLINS PER LINEAR FOOT       LOF     LUT     UNDAR FEET     PROPOSED     PURE SAILON NATION ENDITIES       LUT     LUT     LUT     PS     POINT CONSER FEE ANDIAL       LUT     LUT     PS <td></td> <td></td> <td>OUPS</td> <td>OHIO UTILITY PROTECTION SERVICE</td>			OUPS	OHIO UTILITY PROTECTION SERVICE
INCUE     INCUED       IP, IPF     IRON PIN, IRON PIN FOUND     PA     PALE       J     JUNCTON BOX     PC     POINT OF CURRENT PARAMET       J     JUNCTON BOX     PC     POINT OF CURRENT PARAMET       J     JUNCTON BOX     PC     POINT OF CURRENT PARAMET       J     JUNCTON BOX     PCP     POINT OF CURRENT PARAMET       J     JUNCTON BOX     PCP     POINT OF CURRENT PARAMET       KIS     KIPS PER SOUARE INCH     PCP     POINT OF INTERSETOR COUNCERT CURNERT PARAMET       KXA     KILOVOITS AMPERIS-REACTIVE     PH     POINT OF INTERSETON       KXA     KILOVOITS AMPERIS-REACTIVE     PL     PL       KW     KILOWATT     PL     PL     PL       KW     KILOWATT     PROF     POINTO FINTERSETON     PL       LDOF     LOW-DENTFY CLULUAR CONCRETE FILL     PRC     PRC     PRC       LDUF     LOW-DENTFY CLULUAR CONCRETE FILL     PRC     PRC     PROMP STATION       LSWB     LOW STRENCTH MORTAR BACKFILL     PSE     POINT OF INVERSE CURVATURE       LT     LEFT     PSE     POINT OF REAL AND TORE PARAMET       MAX     MAXEMUM     PSE     POINT OF RATERY EASEMENT       MAX     MAXEMUM     PSE     POINT OF INVERSE PARAMET       MARDOR			OW	OBSERVATION WELL
INVERT     POLE     POLE       P. PF     POLE     POLE       P. PF     PRIVATE     POLE       J     JUNCTON BOX     PO     POINT OF CURVATURE       J     JUNCTON BOX     POR     POINT OF CURVATURE       J     JUNCTON BOX     POR     POINT OF CURVATURE       J     JUNCTON BOX     POR     POINT OF CURVATURE       J     JUNCTON BOX     PORT PRIVINCE     POINT OF CURVATURE       KWR     KUDVOITS AMPERES     POINT OF PROVENCE COUNCER COUNCER COUNCER COUNCER COUNCER COUNCER COUNCER     POINT OF RESCOND       KWR     KUDWATT     POINT OF RECENCE ON     POINT OF RECENCE ON       KWR     KUDWATT     POINT OF RECENCE ON     POINT OF RECENCE ON       LDOF     LOW-DONSTY CELLULAR CONCRETE FILL     PRO     PRON PROPOSED       LDUF     LOW-DONSTY CELLULAR CONCRETE FILL     PRO     PROM PROPOSED       LDUF     LOW-DONSTY CELLULAR CONCRETE FILL     PSE     POINT OF RECENCE CURVATURE       LDUF     LOW STRENOTH MOTTAR BACKTILL     PSE     POINT OF RECENCE CURVATURE       LDUF     LOW STRENOTH MOTTAR BACKTILL     PSE     POINT OF RECENCE CURVATURE       LDUF     LOW STRENOTH MOTTAR BACKTILL     PSE     POINT OF TANGENEY       MATHINE     MANDINA     PSE     POINT OF TANGENEY				
Pr. Pr.         ROW PM, INCOME PM FUNDAD         PA ESMMT PERMILENT ACCESS EXSERT           J         JUNCTION BOX         PG         POINT OF CURRATURE         PORPHAIL CONSTRUE BARNER           J.J         JUNNT         PCP         POUNDS FOR SPECIAL CONSTRUE BARNER         PCP           KM         KUDVOITS AVPERES         PCP         POINT OF RUESSED CONCRETE CULINER PIPE           KM         KUDVOITS AVPERES         PL         PLARE           KW         KUDWATT         PL         PLARE           KW         KUDWATT         PL         PLATE           KWH         KUDWATT         PL         POINT OF RUESSCTION           KW         KUDWATT         PL         PLATE           KWH         KUDWATT         PL         POINT OF RUESSCTION           KWH         KUDWATT         PL         POINT OF RUESSCTION           KWH         KUDWATT         PL         PLATE           KWH         KUDWATT         PL         PLATE           KWH         KUDWATT         PL         POINT OF RUESSCTION           LB         POUND         PROFILE         PROF           LLF         LLMAR FEET         PROF         POUND FEES           LLF         LLMAR FEET         <			Р	POLE
Image: stand s	IP, IPF	IRUN PIN, IRUN PIN FUUND	PA ESMNT	PERMANENT ACCESS EASEMENT
J     JUNDIUM BOX     PCB     PORTABLE CONCRETE FARRIRE       JT     JUNT     PCF     PORTABLE CONCRETE FARRIRE       KSI     KIPS PER SQUARE INCH     PCC     PARSIFESSED CONCRETE CULINER PIPE       KWA     KLOVOLTS AMPERES     PE     PARSIFESSED CONCRETE CULINER PIPE       KWA     KLOVOLT AMPERES-REACTIVE     PI     PHASE       KWA     KLOVOLT AMPERES-REACTIVE     PI     POINT OF INTERSECTION       KWA     KLOVOLT AMPERES-REACTIVE     PI     POINT OF INTERSECTION       KW     KLOWATT HOUR     PL     PLATE       KWH     KLOWATT HOUR     PL     PLATE       LDF     FOUND     PROPORTIL     PROPORTIL       LDF     LOW-DENSITY CELLULAR CONCRETE FILL     PRC     POINTO INTERSECTION       LDF     LOW-OFINIT MORTAR BACKFILL     PS     PMMP STATION       LSMB     LOW STREMENT MORTAR BACKFILL     PS     PMMP STATION       LSMB     LOW STREMENT MORTAR BACKFILL     PS     PMMP STATION       LMAR     FEET     PS     POUND FORCE PER SOURCE FOOT       MAX     MAXINUM     PS     POUND FORCE PER SOURCE FOOT       MAX     MAXINUM     PS     POUND FORCE PER SOURCE FOOT       MAX     MAXINUM     PS     POUND FORCE PER SOURCE FOOT       MB     <			PC	POINT OF CURVATURE
JI     JONI     PCF     PURIDER CURIC FOOT       KSI     KIPS PER SQUARE INCH     PCCP     PRESTRESSED CONCRETE CULNUER PIPE       KWA     KUXOUTS AMPERES     PH     PHASE       KWA     KUXOUTS AMPERES-REACTIVE     PH     PHASE       KWA     KUXOUT AMPERES-REACTIVE     PL     POINTO     FREESECTION       KWA     KUXOUT AMPERES-REACTIVE     PL     PATE       KWA     KUXOUT AMPERES-REACTIVE     PL     PLATE       KWA     KUXOUT AMPERES-REACTIVE     PL     PLATE       KWA     KUXOUT AMPERES-REACTIVE     PL     PLATE       KWA     KUXOUT AMPERES-REACTIVE     PRP     PLANAN PROFILE       LB     POUND     PRESTRESSED CONCRETE FILL     PRP     PLANAN PROFILE       LC     LEFT     PSE     PUND PROFILE SUMER FOOT     PL       LT     LEFT     PSF     PUND PROFILE SUMARE FOOT       LC     LEFT     PSF     PUND PER SQUARE FOOT       LT     LEFT     PSF     PUND PER SQUARE FOOT       LT     LEFT     PSF     PUND PER SQUARE FOOT <td>J </td> <td>JUNCTION BOX</td> <td>PCB</td> <td>PORTABLE CONCRETE BARRIER</td>	J 	JUNCTION BOX	PCB	PORTABLE CONCRETE BARRIER
KSMPS PER SOURARE INCHPECPPRESTRESSED CONCRETE CYLINDER PIPEKVARKULOVOLTS AMPERESPEPLAN NOKVARKULOVOLTS AMPERESPIPIASEKVARKULOVOLT AMPERES-REACTIVEPIPOINT OF INTERSECTIONKWKULOWATI HOURPIPOINTO FINTERSECTIONKWKULOWATI HOURPIPOUNDS PER LINEAR FOOTLBOUNDFORPRECPOINTOLCFLOW-DENSITY CELLULAR CONCRETE FILLPRCPICTO REVERSE CURVATURELCFLOW-DENSITY CELLULAR CONCRETE FILLPSCPIMP STATIONLTLCFUNFAR FEETPSCPUMP STATIONLTLCFVISTAGETH MORTAR BACKFILLPSFPOUNDORCE PER SOLARE FOOTLTLCFUNFAR FEETPSFPOUND PER SOLARE FOOTLTLCFPSFPOUND PER SOLARE INCHMARMAXIMUMPSIEPERMANENT SUBTERRANEAN TUNNEL EASEMENTMARMAXIMUMPSIEPERMANENT SUBTERRANEAN TUNNEL EASEMENTMARMARIDERALIBOXPSIEMARMANDLEROTO CIRCUIT PROTECTORPROMCMARDLERALIBOXRALIBOXMIMINMUMROTO CIRCUIT PROTECTORRALIBOXMCMARDLEROTO ANDRENCYPROVEDMCMARDLEROTO CIRCUIT PROTECTORRALIBOXMCMARDLEROTO CIRCUIT PROTECTORRALIBOXMCMARDLEROTO CIRCUIT PROTECTORRALIBOXMCMARDLERALIBOXRALIBOXM	JI	JOINT	PCF	POUNDS PER CUBIC FOOT
KSI     KAIS     KUSS     FILS     PL     PLAN     END       KVAR     KLOVOLTS     AMPERES     PL     PLASE     PL       KVAR     KLOVOLTS     AMPERES     PL     PLATE       KWH     KLOWATT     HOR     PL     PLATE       KWH     KLOWATT     KUGWATT     PL     PL       LOUF     LOW-DENSITY CELLULAR CONCRETE FILL     PRO     PROPORED     PROPORED       LUT     LET     LET     PSF     POUND FORCE PER SQUARE FOOT       LSMB     LOW STRENGTH MORTAR BACKFLL     PSF     POUND FORCE PER SQUARE FOOT       MAR     MARIMUM     PSF     POUND FORCE PER SQUARE FOOT       MAK     MARIMUM     PSF     POUND FORCE PER SQUARE FOOT       MAR     MARIMON     PROE     POUND FORCE PER SQUARE FO			PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
KNA         KLOWOLT AMPERES         PH         PHASE           KWR         KLOWATT         PL         POINT OF INTERSECTION           KWH         KLOWATT         PL         POINTO OF INTERSECTION           KWH         KLOWATT         PL         POINTO OF INTERSECTION           KWH         KLOWATT HOUR         PL         POINTO OF INTERSECTION           LB         POUND         PRC         POINT OF REVERSE CURVATURE           LDCF         LOW-DENSITY CELLULAR CONCRETE FILL         PRC         POINT OF REVERSE CURVATURE           LDE         LINEAR FEET         PS         PUMP STATION           LT         LEFT         PS         POUND STATIATY CELLULAR CONCRETE FILL         PS           MAX         WAXIMUM         STATION         PS         POUND FER SQUARE INCH           MAX         MAXIMUM         PSI         POUND FER SQUARE INCH           MAX         MAXIMUM         MAILBOX         PSI         POINT OF TANGENCY           MAX         MAXIMUM         MAILBOX         PSI         POINT OF TANGENCY           MAX         MAXIMUM         MAILBOX         PSI         POINT OF TANGENCY           MAX         MAXIMUM         MAILBOX         PSI         POINT OF TANGENCY <t< td=""><td>KSI</td><td>KIPS PER SQUARE INCH</td><td>PE</td><td>PLAIN END</td></t<>	KSI	KIPS PER SQUARE INCH	PE	PLAIN END
KVAR         KLOVOLT AMPERES-REACTIVE         PI         POINT OF INTERSECTION           KW         KLOWART         PL         PLATE           KWH         KLOWART         PU         PLATE           KWH         KLOWART         PU         PUNDS PER LINEAR FOOT           LB         POUND         COUND CONCRETE FILL         PRC         POINT OF REVERSE CURVATURE           LDOF         LINEAR FEET         PS         PUMP STATION         PECL           LSMB         LOW STRENGTH MORTAR BACKFILL         PS         PUMP STATION           LSMB         LOW STRENGTH MORTAR BACKFILL         PS         PS         POUND FORE SQUARE FOOT           MAX         MAXIMUM         PSI         POUND FORE SQUARE FOOT         PSI         POUND FORE SQUARE INCH           MAX         MAXIMUM         PSI         POUND FORE SQUARE INCH         PSI         POUND FOR SQUARE INCH           MER         MAILBOX         PSI         POINT OF TANGENCY         PSI         POINT OF TANGENCY           MER         MATCH EXISTING         PT         POINT OF TANGENCY         PSI         POINT OF TANGENCY           MIR         MANUFACTURER         R         RADUS         RADUS         RADUS         RADUS           MIR         <	KVA	KILOVOLTS AMPERES	PH	PHASE
KW         KLOWATT         PL         PLATE           KWH         KLOWATT HOUR         PLF         POUNDS PER LINEAR FOOT           LB         POUND         PRO         PLAN         AND PROFILE           LB         POUND         PRO         PLAN         AND PROFILE           LLCF         LUMEAR FEET         PROP         PROPOSED         Image: Converter Fill           LSMB         LOW STRENGTH MORTAR BACKFILL         PS         PUMP STATION           LSMB         LOW STRENGTH MORTAR BACKFILL         PS         POUND FORCE PER SQUARE FOOT           LT         LEFT         PSI         POUND FORCE PER SQUARE FOOT           MAX         MAXIMUM         PSIE         POINT OF TAVERSANCINCH           MB         MALBOX         PSI         POUND FORCE PER SQUARE FOOT           MCP         MOTOR CICCUT PROTECTOR         PSIE         POINT OF TAVENCY           MFR         MANUFACTURER         R         RADIUS           MFR         MANUFACTURER         R         RADIUS           MIN         MINIMUM         REFERLA LIND INSTALLATION SPECIFICATIONS         RCP-PVC         REINFORCED CONCRETE PIPE           MIN         MINIMUM         MINIMUM         REERM LINDINSTALLATION SPECIFICATIONS         RCP-PVC <td>KVAR</td> <td>KILOVOLT AMPERES-REACTIVE</td> <td>PI</td> <td>POINT OF INTERSECTION</td>	KVAR	KILOVOLT AMPERES-REACTIVE	PI	POINT OF INTERSECTION
KWH     KLOWATT HOUR     PLF     POUNDS     PER     POUND       LB     POUND     PNP     PLAN AND PROFILE       LDCF     LOW-DENSITY CELLULAR CONCRETE FILL     PROP     PROP     POINT OF REVERSE CURVATURE       LLF     LINEAR FEET     PS     PUMP STATION       LSMB     LOW STRENGTH MORTAR BACKFILL     PS     PUMP STATION       LT     LEFT     PS     POUND PER SQUARE FOOT       MAX     MAXIMUM     PSIE     POUND PER SQUARE INCH       MAX     MAXIMUM     PSIE     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PC     PCP       MR     MANUFACTURER     R     RADUS       MR     MANUFACTURER     R     RADUS       MIN     MINMUM     RCP PR     REINFORCED CONCRETE PIPE       MIN     MINMUM     RCP PR     REINFORCED CONCRETE PIPE       MIN     MATCH EXISTING     RCP PR     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING	KW	KILOWATT	PI	PLATE
LB     POUND     PNP     PLAN AND PROFILE       LDCF     LOW-DENSITY CELLULAR CONCRETE FILL     PRC     POINT OF REVERSE CURVATURE       L     LINEAR FEET     PRO     PROPOSED       LSMB     LOW STRENGTH MORTAR BACKFILL     PS     PUMP STATION       LSMB     LOW STRENGTH MORTAR BACKFILL     PS     PS     PUMP STATION       LT     LEFT     PSF     POUND FORCE PER SQUARE FOOT       MAX     MAXIMUM     PSF     POUND FORCE PER SQUARE FOOT       MB     MAILBOX     PT     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PVC     POLVIN'NT CHLORIDE       MFR     MANUFACTURER     R     RADUS       MFR     MANUFACTURER     RCP     RCINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MISC     MISCELLANEOUS     RD     ROAD       MISC     MSCELLANEOUS     RD     RCADURED       MIN     MINENANCE OF TAFFIC     RCD     RCD       MOT     MAINTENANCE OF TAFFIC     RCD     RCD       MOT     MASONRY OPENING     REINF     REINF REINF       MIN     MINENANCE OF TAFFIC     ROW     RIGHT-OF WAY       MOT     MAINTENANCE OF TAFFIC     ROW     RIGHT-OF WAY	KWH	KILOWATT HOUR	PLF	POUNDS PER LINEAR FOOT
LB     POUND     PRC     POINT OF REVERSE CURVATURE       LDCF     LOW-DENSITY CELLULAR CONCRETE FILL     PRC     POINT OF REVERSE CURVATURE       LF     LINEAR FEET     PS     PMP     PROPOSED       LF     LINEAR FEET     PS     PMP STATION       LT     LEFT     PS     POUND FORCE PER SQUARE FOOT       MAX     MAXIMUM     PSI     POUND FORCE PER SQUARE FOOT       MB     MAILBOX     PSI     POUND FORCE PER SQUARE FOOT       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PVC     POLYINYL CHLORIDE       MR     MATCH EXISTING     RCP     RADIUS       MH     MAUHACURRER     R     RADIUS       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE W/POLYINGY CHLORIDE LINING       MISC     MATERIAL AND INSTALLATION SPECIFICATIONS     RD     ROAD       MISC     MATERIAL AND INSTALLATION SPECIFICATIONS     RD     ROAD       MIN     MINIMUM     MOTOR CIRCURER AND     REBAR     REINFORCING BAR			PNP	
LDCF     LOW-DENSITY CELLULAR CONCRETE FILL     PROP     PROPOSED       LF     UNEAR FEET     PS     PUMP STATION       LSMB     LOW STRENGTH MORTAR BACKFILL     PS     PUMP STATION       LT     LEFT     PS     POUND PER SQUARE FOOT       MAX     MAXIMUM     PS     POUND PER SQUARE FOOT       MAX     MAXIMUM     PS     POUND PER SQUARE FOOT       MB     MAILBOX     PS     POUND PER SQUARE FOOT       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       MFR     MANUFACTURER     R     RADIUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MAITENALCAL JOINT     SPECIFICATIONS     RD       MOS     MSCELLANEOUS     RD     ROAD       MIS     MATERIAL AND INSTALLATION SPECIFICATIONS     RCP-PVC     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MISC     MISCELLANEOUS     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MUS     MADINTENANCE OF TRAFFIC     RCW     RCINFORCING BAR       MON     SUVEY MONUMENT     REQD     REQD<	LB	POUND	PRC	
LF     LINEAR FEET     PS     PUMP STATION       LSMB     LOW STRENGTH MORTAR BACKFILL     PS     PUMP STATION       LT     LEFT     PSF     POUND FORCE PER SQUARE FOOT       MAX     MAXIMUM     PSF     POUND FORCE PER SQUARE FOOT       MB     MAILBOX     PSF     POUND FORCE PER SQUARE FOOT       MB     MAILBOX     PT     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       MF     MATUFACTURER     R     RADIUS       MH     MANHOLE     R     RADIUS       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MISC     MASCHANEOUS     RD     ROAD       MISC     MISCELANEOUS     RD     ROAD       MJ     MECHANICAL JOINT     REBAR     REINFORCING BAR       MOT     MAINTENANCE OF TRAFFIC     ROW     REGORD PLAN NUMBER       MP     MEDUM PRESSURE     ROW     RIGHT-OF-WAY       MP     MOURD RESSURE     RT     RIGHT       MPH     MILES PER HOUR     R     SOUTH       MOT     NORTH, NORTHING     S     SOUTH       MPH     MILES PER HOUR     R     SOUTH	LDCF	LOW-DENSITY CELLULAR CONCRETE FILL		
LSMB     LOW STRENGTH MORTAR BACKFILL     PS     FORMA DATAPY     EASUMT       LT     LEFT     PS     POUND FORCE PER SQUARE FOOT       MAX     MAXIMUM     PSI     POUND FORCE PER SQUARE INCH       MB     MALIBOX     PSI     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PC     POLYUNYL CHLORIDE       ME     MATCH EXISTING     PC     POLYUNYL CHLORIDE       MFR     MANUFACTURER     R     RADIUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MISC     MISCELLANEOUS     RD     ROD       MISC     MISCELLANEOUS     RD     ROD       MON     MASONRY OPENING     REINF     REINFORCED       MON     MASONRY OPENING     REINF     REINFORCED       MON     MASURYEY MONUMENT     REQD     REQUIRED       MOT     MAITENANCE OF TRAFFIC     RW     RICHT-OF WAY       MP     MEDUM PRESSURE     RT     RICHT       MPH     MILES PER HOUR     R     RCH       MPH     MILES PER HOUR     R/W     RICHT       MAINTENANCE OF TRAFFIC     RW     ROD     RICHT       MP     MOUTORING WELL     RICHT<	LF	LINEAR FEET		
LT     LEFT     PS     EXMIN     PERMANENT SAMILART LESEMENT       MAX     MAXIMUM     PSF     POUND FORCE PER SQUARE FOOT       MAX     MAXIMUM     PSF     POUND FORCE SQUARE FOOT       MB     MAILBOX     PT     POINT OF TANGENCY       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       ME     MATCH EXISTING     PT     POINT OF TANGENCY       MFR     MANUFACTURER     R     RADIUS       MH     MANUFACTURER     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     MORECLANEOUS     RCP     REINFORCED CONCRETE PIPE       MISC     MATERIAL AND INSTALLATION SPECIFICATIONS     RCP     ROAD       MISC     MATERIAL AND INSTALLATION SPECIFICATIONS     RCP-PVC     REINFORCED CONCRETE PIPE       MIN     MINIMUM     MECHANICAL JOINT     REBAR     REINFORCED CONCRETE PIPE       MO     MASONRY OPENING     RCP     RCO     RCUIRED       MO     MASONRY OPENING     REQ     REQUIRED     READ       MOT     MAINTENANCE OF TRAFFIC     RCW     RCORD PLAN NUMBER       MP     MEDUM PRESSURE     RT     RIGHT       MP     MONITORING WELL     R/W     RIGHT       N     NORTH, NORTHING     S     SOUTH	LSMB	LOW STRENGTH MORTAR BACKFILL		POME STATION
MAXMAXIMUMPSFPOUND FORCE PER SUDARE FOOTMAXMAXIBOXPSIPOUND FORSE PER SUDARE FOOTMBMAILBOXPSIPERMANENT SUBTERRANEAN TUNNEL EASEMENTMCPMOTOR CIRCUIT PROTECTORPTPOINT OF TANGENCYMEMATCH EXISTINGPVCPOLYVINYL CHLORIDEMFRMANUFACTURERRRADIUSMINIMUMRCPRCPREINFORCED CONCRETE PIPEMINMINIMUMRCP-PVCREINFORCED CONCRETE PIPEMISMATERIAL AND INSTALLATION SPECIFICATIONSRDROADMISMATERIAL AND INSTALLATION SPECIFICATIONSRDROADMISMATERIAL AND INSTALLATION SPECIFICATIONSRDROADMISMATERIAL AND INSTALLATION SPECIFICATIONSRDROADMISMATERIAL AND INSTALLATION SPECIFICATIONSRDROADMISMASORRY OPENINGREDARREINFORCEDCONCRETE PIPE W/POLYVINGY CHLORIDE LININGMOMASONRY OPENINGREDARREINFORCEDCONCRETE PIPE W/POLYVINGY CHLORIDE LININGMOTMAILEDANCE OF TRAFFICRCROWREQUIREDMOTMAINTENANCE OF TRAFFICRCWRIGHT-OF WAYMPMEDUR PRESSURERTRIGHTMPHMILES PER HOURRTRIGHTMPHMILES PER HOURSSOUTHMAILBALNONTORING WELLSSOUTHNNORTH, NORTHINGSANSANTARYNALNATERIAL ELECTRIC MANUFACTURERS ASSNSBSTRAW BALENALN	LT	LEFT	PS ESMINI	PERMANENT SANITART EASEMENT
MAXMAXIMUMPSIPOUND PER SQUARE INCHMAXMAILBOXPSTEPERMANENT SUBTERRANEAN TUNNEL EASEMENTMBMAILBOXPTPOINT OF TANGENCYMCPMOTOR CIRCUIT PROTECTORPVCPOLYTINYL CHLORIDEMEMATCH EXISTINGRRADIUSMFRMANUFACTURERRRADIUSMINMINIMUMRCPREINFORCED CONCRETE PIPEMINMINIMUMSPECIFICATIONSRCP-PVCREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMISCMISCELLANEOUSRDROADMISCMISCELLANEOUSRDROADMUNMUNENTAREEDARREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMISCMISCELLANEOUSRDROADMISCMISCELLANEOUSRDROADMUNMECHANICAL JOINTREEDARREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMONSURVEY MONUMENTREEDARREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMONSURVEY MONUMENTREEDARREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMONSURVEY MONUMENTREEDARREINFORCEDMONSURVEY MONUMENTRECODRECORD PLAN NUMBERMPHMELIUM PRESSURERPRECORD PLAN NUMBERMPHMELIUM PRESSURERFSOUTHMWMONITORING WELLSSOUTHNNORTH, NORTHINGSANSANTARYNALNATIONAL ELECTRIC MANUFACTURERS ASSNSBSTRAW BALENALANATIONAL ELECTRIC MA			PSF	POUND FORCE PER SQUARE FOOT
MB     MAILBOX     PSTE     PERMANENT SUBTERRANEAN TUNNEL EASEMENT       MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       ME     MATCH EXISTING     PT     POINT OF TANGENCY       MFR     MANUFACTURER     R     RADIUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINMUM     RCP-PVC     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MISC     MISCELLANEOUS     RD     ROAD       MISC     MISCELLANEOUS     REBAR     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MO     MASONRY OPENING     RD     ROAD       MO     MSONRY OPENING     REBAR     REINFORCED       MON     SURVEY MONUMENT     REQU     REQUIRED       MOT     MAITENANCE OF TRAFFIC     RW     RIGHT       MPH     MILES PER HOUR     RT     RIGHT       MW     MONITORING WELL     RIGHT     RIGHT       MVA     MONTORING WELL     SAN     SANITARY       NATENAL ELECTRIC MANUFACTURERS ASSN     SBR     STANDARD DIMENSION RATION	MAX	MAXIMUM	PSI	POUND PER SQUARE INCH
MCP     MOTOR CIRCUIT PROTECTOR     PT     POINT OF TANGENCY       ME     MATCH EXISTING     PVC     POLYVINYL CHLORIDE       MFR     MANUFACTURER     R     RADIUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MIS     MATERIAL AND INSTALLATION SPECIFICATIONS     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MJ     MECHANICAL JOINT     REBAR     REINFORCED     CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MON     SURVEY MONUMENT     REBAR     REINFORCING BAR       MON     SURVEY MONUMENT     REQD     REQUIRED       MOT     MAINTENANCE OF TRAFFIC     ROW     RIGHT-OF WAY       MP     MEDIUM PRESSURE     RP     RECORD PLAN NUMBER       MPH     MILES PER HOUR     RIGHT     RIGHT       MW     MONITORING WELL     S     SOUTH       N     NORTH, NORTHING     SAN     SANITARY       N/A     NOT APPLICABLE     SAN     SANITARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE	MB	MAIL BOX	PSTE	PERMANENT SUBTERRANEAN TUNNEL EASEMENT
Match Existing     PVC     POLYVINYL CHLORIDE       MFR     MANUFACTURER     R     RADUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MIS     MATERIAL AND INSTALLATION SPECIFICATIONS     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MJ     MECHANICAL JOINT     REBAR     REINFORCING BAR       MO     MASONRY OPENING     REINF     REINFORCED       MON     SURVEY MONUMENT     REQD     REQUIRED       MOT     MAINTENANCE OF TRAFFIC     RW     RIGHT-OF WAY       MP     MEDIUM PRESSURE     RT     RIGHT       MW     MONITORING WELL     RIGHT     RIGHT       N     NORTH, NORTHING     SA     SOUTH       N/A     NOT APPLICABLE     SAN     SANITARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STANUBALE	MCP	MOTOR CIRCUIT PROTECTOR	PT	POINT OF TANGENCY
MRC     MANUFACTURER     R     RADIUS       MFR     MANUFACTURER     R     RADIUS       MH     MANUFACTURER     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCPPVC     REINFORCED CONCRETE PIPE       MIS     MATERIAL AND INSTALLATION SPECIFICATIONS     RCP     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MJ     MECHANICAL JOINT     REBAR     REINFORCID G BAR       MO     MASONRY OPENING     REINF     REINFORCED       MON     SURVEY MONUMENT     RCQD     REQUIRED       MOT     MAINTENANCE OF TRAFFIC     ROW     RIGHT-OF WAY       MP     MEDIUM PRESSURE     RT     RIGHT       MPH     MILES PER HOUR     RT     RIGHT       MW     MONITORING WELL     S     SOUTH       V     NORTH, NORTHING     SAN     SANTARY       N/A     NOT APPLICABLE     SAN     SANTARY       N/A     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE	MF	MATCH EXISTING	PVC	POLYVINYL CHLORIDE
MINK     MANHOLE     R     RADIUS       MH     MANHOLE     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING       MISC     MISCELLANEOUS     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MO     MASONRY OPENING     REINF     REINFORCED       MON     SURVEY MONUMENT     REQD     REQUIRED       MON     SURVEY MONUMENT     REQD     REQUIRED       MON     MILES PER HOUR     RP     RECORD PLAN NUMBER       MPH     MILES PER HOUR     RT     RIGHT       MWW     MONTORING WELL     S     SOUTH       N/A     NOT APPLICABLE     SAN     SANITARY       N/A     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE				
MIN     MANUAL     RCP     REINFORCED CONCRETE PIPE       MIN     MINIMUM     RCP-PVC     REINFORCED CONCRETE PIPE       MISS     MATERIAL AND INSTALLATION SPECIFICATIONS     RD     ROAD       MISC     MISCELLANEOUS     RD     ROAD       MJ     MECHANICAL JOINT     REBAR     REINFORCIB BAR       MO     MASONRY OPENING     REINF     REINFORCED       MON     SURVEY MONUMENT     REQD     REQUIRED       MOT     MAINTENANCE OF TRAFFIC     ROW     RIGHT-OF WAY       MP     MELDUM PRESSURE     RT     RIGHT       MPH     MILES PER HOUR     RY     RIGHT       NM     NORTH, NORTHING     S     SOUTH       N/A     NOT APPLICABLE     SAN     SANITARY       N/A     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE			R	RADIUS
MINIMUMRCP-PVCREINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LININGMISCMISCELLANEOUSRDROADMJMECHANICAL JOINTREBARREINFORCING BARMOMASONRY OPENINGREINFREINFORCEDMONSURVEY MONUMENTREQREQUIREDMOTMAINTENANCE OF TRAFFICROWRIGHT-OF WAYMPMEDIUM PRESSURERTRIGHTMPHMILES PER HOURRTRIGHTMWMONITORING WELLSSOUTHN/ANORTH, NORTHINGSANSANITARYN/ANATIONAL ELECTRIC MANUFACTURERS ASSNSBSTRAW BALESURVEYSTANDARD DIMENSION RATIONSTANDARD DIMENSION RATION	MIN		RCP	REINFORCED CONCRETE PIPE
MISCMATERIAL AND INSTALLATION STRECTION ON STRECTION ON STRECTION ON STREET ON TO STRECTION ON STREET ON TO STREET ON TRAITONNATIONAL ELECTRIC MANUFACTURERS ASSNSTREET ON TRAITON STREET ON TRAITON			RCP-PVC	REINFORCED CONCRETE PIPE W/POLYVINGY CHLORIDE LINING
MISC     MISCELLANEOUS     REBAR     REINFORCING BAR       MJ     MECHANICAL JOINT     REINF     REINFORCED       MO     MASONRY OPENING     REQU     REQUIRED       MON     SURVEY MONUMENT     ROW     RIGHT-OF WAY       MOT     MAINTENANCE OF TRAFFIC     RP     RECORD PLAN NUMBER       MP     MEDIUM PRESSURE     RT     RIGHT       MPH     MILES PER HOUR     R/W     RIGHT-OF-WAY       MW     MONITORING WELL     R/W     RIGHT-OF-WAY	MIS	MATERIAL AND INSTALLATION SPECIFICATIONS	RD	ROAD
MJMECHANICAL JOINTREINFREINFORCEDMOMASONRY OPENINGREQDREQUIREDMONSURVEY MONUMENTROWRIGHT-OF WAYMOTMAINTENANCE OF TRAFFICRPRECORD PLAN NUMBERMPMEDIUM PRESSURERTRIGHTMPHMILES PER HOURR/WRIGHT-OF-WAYMWMONITORING WELLSSOUTHNNORTH, NORTHINGSANSANITARYN/ANOT APPLICABLESBSTRAW BALENEMANATIONAL ELECTRIC MANUFACTURERS ASSNSDRSTANDARD DIMENSION RATION	MISC		REBAR	REINFORCING BAR
MO       MASONRY OPENING       REQD         MON       SURVEY MONUMENT       REQD         MOT       MAINTENANCE OF TRAFFIC       ROW       RIGHT-OF WAY         MP       MEDIUM PRESSURE       RP       RECORD PLAN NUMBER         MPH       MILES PER HOUR       RT       RIGHT         MW       MONITORING WELL       R/W       RIGHT-OF-WAY         N       NORTH, NORTHING       S       SOUTH         N/A       NOT APPLICABLE       SAN       SANITARY         NEMA       NATIONAL ELECTRIC MANUFACTURERS ASSN       SB       STRAW BALE	MJ	MECHANICAL JUINI	REINF	REINFORCED
MON     SURVEY MONUMENT     Record       MOT     MAINTENANCE OF TRAFFIC     ROW     RIGHT-OF WAY       MP     MEDIUM PRESSURE     RP     RECORD PLAN NUMBER       MPH     MILES PER HOUR     RT     RIGHT       MW     MONITORING WELL     R/W     RIGHT-OF-WAY       N     NORTH, NORTHING     S     SOUTH       N/A     NOT APPLICABLE     SAN     SANITARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE       SDR     STANDARD DIMENSION RATION	MO	MASONRY OPENING	REQD	REQUIRED
MOT     MAINTENANCE OF TRAFFIC     NOT       MP     MEDIUM PRESSURE     RP     RECORD PLAN NUMBER       MPH     MILES PER HOUR     RT     RIGHT       MW     MONITORING WELL     R/W     RIGHT-OF-WAY       N     NORTH, NORTHING     S     SOUTH       N/A     NOT APPLICABLE     SAN     SANITARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE       SDR     STANDARD DIMENSION RATION	MON	SURVEY MONUMENT	ROW	RIGHT-OF WAY
MP       MEDIUM PRESSURE       REDUKT PREVENTION         MPH       MILES PER HOUR       RT       RIGHT         MW       MONITORING WELL       R/W       RIGHT-OF-WAY         N       NORTH, NORTHING       S       SOUTH         N/A       NOT APPLICABLE       SAN       SANITARY         NEMA       NATIONAL ELECTRIC MANUFACTURERS ASSN       SB       STRAW BALE         SDR       STANDARD DIMENSION RATION	МОТ	MAINTENANCE OF TRAFFIC	RP	RECORD PLAN NUMBER
MPH       MILES PER HOUR       North         MW       MONITORING WELL       R/W       RIGHT-OF-WAY         N       NORTH, NORTHING       S       SOUTH         N/A       NOT APPLICABLE       SAN       SANITARY         NEMA       NATIONAL ELECTRIC MANUFACTURERS ASSN       SB       STRAW BALE         SDR       STANDARD DIMENSION RATION	MP	MEDIUM PRESSURE	RT	RIGHT
MW     MONITORING WELL     RIGHT-OF-WAY       N     NORTH, NORTHING     S       N/A     NOT APPLICABLE     SAN       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB       STRAW BALE     STANDARD DIMENSION RATION	MPH	MILES PER HOUR		
N     NORTH, NORTHING     S     SOUTH       N/A     NOT APPLICABLE     SAN     SANTARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE       SDR     STANDARD DIMENSION RATION	MW	MONITORING WELL	K\ M	
N/A     NOT APPLICABLE     SAN     SANITARY       NEMA     NATIONAL ELECTRIC MANUFACTURERS ASSN     SB     STRAW BALE       SDR     STANDARD DIMENSION RATION	Ν	NORTH, NORTHING	S	SOUTH
NEMA NATIONAL ELECTRIC MANUFACTURERS ASSN SDR STRAW BALE SDR STANDARD DIMENSION RATION	N/A	NOT APPLICABLE	SAN	SANIJARY
SDR STANDARD DIMENSION RATION	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSN	SB	STRAW BALE
			SDR	STANDARD DIMENSION RATION

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SF	SEDIMENT FENCE
SFT	SHAFT
SHT	SHEET
SIN	SINGLE
SPEC	SPECIFICATION
SR	STATE ROUTE
SS	STAINLESS STEEL
SSSI	SUBSURFACE SHALLOW SETTLEMENT INDICATOR
SSM	SURFACE SETTLEMENT MARKER
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM SEWER
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
T&B	TOP & BOTTOM
TBA	TO BE ABANDONED
TBD	TO BE DECIDED
TBM	TUNNEL BORING MACHINE
TBR	TO BE REMOVED
TBRR	TO BE REMOVED AND REPLACED
TC	TOP OF CASTING
TEL	TELEPHONE
TC ESMNT	TEMPORARY CONSTRUCTION EASEMENT
TEMP	TEMPORARY
TRC	TRAFFIC CONTROL
TWP	TOWNSHIP
TYP	TYPICAL
THK	THICKNESS
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGL	UNDERGROUND LIGHTING
UGT	UNDERGROUND TELEPHONE
UNO	UNLESS NOTED OTHERWISE
V	VOLT(S)
VAC	VOLTS ALTERNATING CURRENT
VERT	VERTICAL
W	WEST
W/	WITH
WM	WATER MAIN
W/O	WITHOUT
WS	WATER SERVICE
WT	WEIGHT
WWF	WELDED WIRE FABRIC

JNK EXTENSION PHASE 2 ROVEMENTS PROJECT 033–100002					CITY OF DEPARTMENT OF DIVISION OF SEWER DIVISION	COLUMBUS PUBLIC UTILITIES AGE AND DRAINAGE USE ONLY
Y		OWI	NER			
		CONTR	ACTOR			
		INSPE	CTOR		SCALE:	SHEET: $C = 4 (4 \text{ of } 68)$
	AGREE	EMENT	CON	IPLETED	N/A	9-4 (4 01 08)
	RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
					CC-18351	

1. SPECIFICATIONS: THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018 EDITION, INCLUDING ALL REVISIONS, SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL AND IN EFFECT AT THE TIME OF SIGNATURE BY THE DIRECTOR OF PUBLIC UTILITIES, SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED. SHOULD A CONFLICT ARISE, THE MORE STRINGENT REQUIREMENTS SHALL BE REQUIRED UNLESS OTHERWISE DIRECTED BY THE CONSTRUCTION MANAGEMENT TEAM (CMT).

ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CMT.

- ADDITIONAL COMPENSATION: THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE PROJECT AS SHOWN AND DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE PRICE FOR ITEMS OF WORK OR MATERIALS SHOWN ON THE PLANS OR PROVIDED FOR IN THE SPECIFICATIONS OR SPECIAL PROVISIONS FOR WHICH NO SEPARATE UNIT PRICE IS GIVEN SHALL BE BID AS PER PLANS AND THE COSTS DISTRIBUTED AMONG THE VARIOUS BID ITEMS. SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE BIDDER IS SATISFIED WITH THE PLANS AND CONDITIONS AS SHOWN. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS, OR SPECIAL PROVISIONS.
- NOTIFICATION: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 48 HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION, HOLIDAYS AND WEEKENDS EXCLUDED. WORK SHALL NOT COMMENCE UNTIL A PRE-CONSTRUCTION CONFERENCE IS HELD.

DIVISION	OF	SEWERAGE AND DRAINAGE	(614)	645-7490
DIVISION	OF	WATER	(614)	645-7788
DIVISION	OF	FIRE	(614)	221-3132
DIVISION	OF	POLICE	(614)	645-6676
DIVISION	OF	POWER	(614)	645-8276
DIVISION	OF	TRANSPORTATION	(614)	645-7790
FRANKLIN	1 C(	DUNTY ENGINEER'S OFFICE	(614)	462-3072
DELAWAR	ЕC	OUNTY ENGINEER'S OFFICE	(740)	833-2400

THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL ADJACENT LANDOWNERS AND HOMEOWNER ASSOCIATIONS A MINIMUM OF ONE WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL CONTACT THE DIVISION OF SEWERAGE AND DRAINAGE FOR A SUGGESTED FORMAT FOR THE NOTICE.

- PERMITS: THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES NEEDED FOR CONSTRUCTION OF THIS PROJECT AS REQUIRED UNDER CMSC 107.02 AND AS REQUIRED UNDER SPECIFICATION 01410 -ENVIRONMENTAL PROTECTION AND REGULATORY REQUIREMENTS. WHEN EXCAVATING WITHIN THE PUBLIC RIGHT-OF-WAY LIMITS INSIDE THE CITY OF COLUMBUS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE TRANSPORTATION PERMIT OFFICE BY CALLING 645-5660 DURING THE HOURS OF 7:30 A.M. TO 5:00 P.M., MONDAY - FRIDAY.
- 5. NON-RUBBER TIRED VEHICLES: NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON PUBLIC STREETS OR ROADS. THE TRANSPORTATION DIVISION/FCEO/DCEO MAY GRANT EXCEPTIONS WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE APPROPRIATE JURISDICTION.
- 6. <u>SAFETY:</u> THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS. TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY, IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK

THE CONTRACTOR SHALL FOLLOW THE OSHA REQUIREMENTS FOR "CONFINED SPACE ENTRY," TITLE 29 OF THE CODE OF FEDERAL REGULATIONS, PART 1910.146 WHILE PERFORMING WORK INSIDE ANY MANHOLE OR OTHER PERMIT REQUIRED FOR CONFINED SPACE.

- VERTICAL CONTROL: ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM.
- 8. HORIZONTAL CONTROL: THE COORDINATES SHOWN ARE GRID AND BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD83 (NSRS 2007).
- 9. BENCHMARKS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 10. RIGHT-OF-WAY: IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, AND RIGHTS OF ENTRY OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT PER SPECIAL PROVISION-15 105.05 UNLESS SPECIFIC PROVISION IS MADE IN THE CONTRACT SPECIFICATIONS FOR SUCH COST UNDER SPECIFIC ITEMS OF THE CONTRACT.

11. UTILITIES: THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. THE UTILITY LOCATIONS INDICATED ARE NOT NECESSARILY COMPLETE OR CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT. PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATION OF ANY NECESSARY UTILITY RELOCATION WITH THE UTILITY OWNER. THE UTILITY COMPANY SHALL RELOCATE PRIVATE UTILITIES WITHIN THE ROW AT THEIR OWN EXPENSE. PUBLIC UTILITIES (WATERLINES, SEWERS, ETC.) SHALL BE RELOCATED AS SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EXPOSE UTILITIES AND STRUCTURES PRIOR TO THE CONSTRUCTION TO VERIFY

THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES. THE COST OF UTILITY RELATED WORK SHALL BE INCLUDED IN THE BASE BID, UNLESS OTHERWISE SPECIFIED.

WHERE PLANS PROVIDE FOR A PROPOSED SEWER TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED SEWER. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**.

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT.

AMERICAN ELECTRIC POWER 850 TECH CENTER DRIVE GAHANNA, OH 43230 PHONE: (614) 883-6831

CHARTER COMMUNICATIONS 3760 INTERCHANGE DRIVE COLUMBUS, OH 43204 PHONE: (614) 255-6349

DELCO WATER 6658 OLENTANGY RIVER ROAD DELAWARE, OH 43015 PHONE: (740) 548-7746

AT&T 111 N. FRONT ST. COLUMBUS, OH 43215 PHONE: (614) 223-4362

COLUMBIA GAS OF OHIO 3550 JOHNNY APPLESEED COURT COLUMBUS, OH 43231 PHONE: (614) 460-2222

12. DIVISION OF POWER: THE DIVISION OF POWER (DOP) MAY HAVE UNDERGROUND AND OVERHEAD PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FOURTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA.

ANY REQUIRED RELOCATION, SUPPORT, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1001.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHTING/LOCKOUT (LOTO) PROCEDURE MIS-01, COPIES OF WHICH ARE AVAILABLE FROM DOP.

IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

- 13. OVERHEAD POWER LINE CLEARANCE: THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AT ALL TIMES, PARTICULARLY WHEN WORKING NEAR OVERHEAD ELECTRICAL CROSSINGS (OSHA 1926.1408). MINIMUM CLEARANCE FROM 345kV LINES IS 20 FEET. MINIMUM CLEARANCE FROM ALL LINES LESS THAN 138 kV IS 10 FEET. THE CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT EDITION OF OSHA REQUIREMENTS.
- 14. GRADE CHANGES: THE CONTRACTOR SHALL SURVEY THE EXISTING SANITARY SEWER BEFORE CONSTRUCTION BEGINS. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING SEWER, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE. THE CMT SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED SEWER WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE CMT SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED SEWER WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE CMT. TUNNEL LINER PIPE SHALL NOT DEVIATE FROM PLAN ELEVATION BY MORE THAN  $\frac{1}{4}$ " IN ACCORDANCE WITH SPECIFICATION SECTION 02991. ALL OTHER INVERT ELEVATIONS SHALL NOT DEVIATE FROM PLAN ELEVATION BY MORE THAN 0.05 FOOT. FAILING TO MEET THE ABOVE REQUIREMENTS IS CAUSE FOR REJECTION OF THE AFFECTED SECTION OF SEWER.

15. WATER, SANITARY, STORM, AND PRIVATE UTILITY SERVICE LINES: THE EXISTING WATER, SANITARY, STORM, AND PRIVATE UTILITY SERVICE LINES THAT ARE SHOWN ON THE PLANS HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION (FIELD MARKED, TAP CARD RECORDS, PLAN LOCATION, USE OF VALVE BOXES, ETC.).

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL OTHER UTILITY LINES AND INCLUDE THE COST OF CROSSING THESE LINES UNDER THE COST OF THIS CONTRACT. REQUESTS FOR EXTRA COMPENSATION FOR THE DELAY OR LOSS OF PRODUCTIVITY CAUSED BY THESE CROSSINGS WILL BE DENIED. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO THE SERVICE LINES AT HIS EXPENSE.

16. WATER LINE LOWERING: EXISTING WATER LINE LOWERING, AS NOTED ON THE PLANS, MAY OR MAY NOT BE PERFORMED DEPENDING ON FIELD CONDITIONS OR AS DIRECTED BY THE CMT. WATER LINE LOWERING SHALL BE PER DIVISION OF

EASEMENT REI	FERENCE	REVISION	NS	PLAN PREPARED BY:		PROJECT TITLE:		CITY OF DEPARTMENT (	F COLUMBUS DF PUBLIC UTILITIES
CITY NO. INSTRUMENT NUMBER	GRANTOR	NO. DESCRIPTION	APPROVAL/DATE			BIG WALNUT TRUNK EXTE CAPITAL IMPROVEMEN 650033-100	NSION PHASE 2 TS PROJECT 002		ERAGE AND DRAINAGE
				I ( <b>D</b> ) Stantec			002		
					GENERAL NUTES	DIVISION USE ONLY	OWNER		
					SHEET 1 OF 2		CONTRACTOR		
				Stantec Consulting Services Inc.			INSPECTOR	SCALE:	SHEET: $G=5$ (5 of 68)
				1500 Lake Shore Drive, Suite 100 Columbus OH 43204-3800			AGREEMENT COMPLETED	N/A	0 0 (0 01 00)
				Tel: 614.486.4383			RPD CKD CLD CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
				www.stantec.com				CC-18351	

POWER AND WATER STD. DETAIL DRAWING L-7401.

INTERRUPTION OF WATER SERVICE: THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 24 HOURS, BUT NOT MORE THAN 72 HOURS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE HELD TO A MINIMUM AND SHALL BE APPROVED BY THE CITY.

- 17. SERVICE BOX ADJUSTMENT: THE CONTRACTOR SHALL ADJUST EXISTING UTILITY VALVE BOXES AND SERVICE BOXES TO GRADE WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPLACE ANY DAMAGED CURB BOX ENCOUNTERED WHILE RELOCATING WATER SERVICE TAPS AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO CURB, UTILITY, AND SERVICE BOXES CAUSED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE AS REQUIRED BY SP-13 SECTION 105.08.
- 18. FIRE HYDRANT PERMIT: THE CONTRACTOR MUST OBTAIN FROM THE DIVISION OF WATER A FIRE HYDRANT PERMIT PRIOR TO CONNECTION OF HIS WATER SUPPLY LINES TO ANY FIRE HYDRANT. THE CONTRACTOR SHALL PROVIDE THE NECESSARY GATE VALVES. BACKFLOW PREVENTERS. AND FLOW METER FOR EACH HYDRANT LOCATION. ALL EQUIPMENT, FITTINGS AND VALVES SHALL BE IN ACCORDANCE WITH DIVISION OF POWER AND WATER STANDARDS. THE CONTRACTOR SHALL PAY FOR WATER AT THE CURRENT CITY RATES.
- THE CONTRACTOR SHALL COORDINATE WITH DELCO WATER ON CONNECTION AND PAYMENT FOR ANY USE OF THEIR WATER DISTRIBUTION SYSTEM TO PROVIDE TEMPORARY WATER SERVICE DURING CONSTRUCTION.
- 19. TRENCHING: ANY EXCAVATION PERFORMED BEYOND THE MINIMUM TRENCH WIDTH. AS DEFINED ON DIVISION OF SEWERAGE AND DRAINAGE STANDARD CONSTRUCTION DRAWINGS AA-S149, AA-S151, AND AA-S152 DUE TO SITE CONDITIONS OR THE CONTRACTOR'S METHODS ARE DONE SO SOLELY AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR UNAUTHORIZED EXCAVATION. BLASTING IS NOT PERMITTED FOR TRENCH CONSTRUCTION.
- IF UNSUITABLE SUBGRADE MATERIAL IS FOUND, IT SHALL BE REMOVED AND REPLACED WITH SELECT FILL AT THE DISCRETION OF THE CMT PER SPECIFICATION 02220 - EXCAVATING, BACKFILLING, AND COMPACTING.
- 20. TRENCH BACKFILL: ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED PER SPECIFICATION SECTION 02220, EXCAVATING, BACKFILLING AND COMPACTING, AND AS SHOWN ON THE PLANS.

AT ALL POINTS OF CROSSING WATER MAINS OR OTHER SEWERS, THE BACKFILL SHALL BE OF GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPES.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF THE TRENCHES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL INSPECTION.

21. <u>STORMWATER FACILITIES:</u> BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, THE CMT AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. THE CMT SHALL KEEP RECORDS OF THE INSPECTION IN WRITING.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED OR RECONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

ALL EXISTING MANHOLES, CATCH BASINS, DRAINS, SEWERS, AND APPURTENANCES INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLE COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER. THE ABOVE IS NOT APPLICABLE FOR STRUCTURES TO BE ABANDONED. THE CONTRACTOR SHALL REMOVE DEBRIS, SILT, ETC. FROM THE EXISTING MANHOLES AND CATCH BASINS THAT HAVE BEEN AFFECTED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL MAINTAIN SERVICE IN EXISTING SEWERS DURING CONSTRUCTION.

22. EXISTING DRAINAGE SYSTEMS: EXISTING DRAINAGE SYSTEMS (FIELD TILES, ROOF DRAIN OUTLETS, SUMP PUMPS, ETC.) ENCOUNTERED DURING CONSTRUCTION OF THE NEW STORM SEWER OR REMOVAL OF EXISTING STORM SEWERS SHALL BE EXTENDED AS NECESSARY AND BLIND TAPPED TO THE NEW STORM SEWER PER DIVISION OF SEWERAGE AND DRAINAGE STANDARD DRAWING AA-S159 OR CONNECTED TO THE CATCH BASIN AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE PRICE FOR GENERAL CONSTRUCTION.

IF THE CONTRACTOR ENCOUNTERS A PIPE OR CONNECTION TO THE STORM SEWER THAT IN THE ESTIMATE OF THE ENGINEER MAY BE AN ILLICIT CONNECTION FROM AN ON-SITE SEWAGE DISPOSAL SYSTEM, COLUMBUS PUBLIC HEALTH SHALL BE CONTACTED AT 645-6448 TO DETERMINE WHETHER THE PIPE MAY BE RECONNECTED TO THE CITY'S STORM SEWER SYSTEM.

- 23. CLEAN WATER CONNECTIONS TO SANITARY SEWERS: ROOF DRAINS, FOUNDATION DRAINS, DRAIN TILES, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED.
- 24. CERTIFICATION OF PIPE AND STRUCTURES: ALL CONCRETE PIPE, STORM AND SANITARY STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE DESIGNATED REPRESENTATIVE OF THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

- 25. <u>MANHOLE STEPS:</u> MANHOLE STEPS SHALL BE REINFORCED POLYPROPYLENE PLASTIC PER DOSD STD. CONSTRUCTION DRAWING AA-S119.
- 26. STORM STRUCTURE ADJUSTMENT: THE CONTRACTOR SHALL FIELD VERIFY THE TOP OF CASTING ELEVATION OF ALL NEW SEWER STRUCTURES. IF THE PRECAST STRUCTURES ARE UTILIZED, THE TOP 6-INCHES MINIMUM SHALL BE FIELD PLACED WITHER WITH GRADE RINGS OR BRICK AND MORTAR TO ALLOW FOR FIELD ADJUSTMENT.

IF THE CMT DETERMINES THAT THE CASTING IS TOO LOW/HIGH AFTER IT HAS BEEN PLACED AND ROUGH GRADING PERFORMED, THE CONTRACTOR SHALL ADJUST THE INLET AS DIRECTED BY THE ENGINEER AND REGRADE THE AREA ACCORDINGLY. FOR ADJUSTMENTS OF +/- 6-INCHES, THE CASTING SHALL BE ADJUSTED IN ACCORDANCE WITH CMSC 604.03.B. FOR ADJUSTMENTS GREATER THAN 6-INCHES, THE CASTING SHALL BE RECONSTRUCED IN ACCORDANCE WITH CMSC ITEM 604.03.A.

- 27. SANITARY MANHOLE FRAMES AND COVERS: THE TOP OF NEW OR MODIFIED MANHOLE CASTINGS SHALL BE SET FLUSH WITH THE EXISTING SURFACE. THE CONTRACTOR SHALL FIELD VERIFYING THE TOP OF CASTING ELEVATION PRIOR TO ORDERING MATERIALS.
- 28. PRE-CAST AND CAST-IN-PLACE CONCRETE CORROSION PROTECTION: ALL PRECAST CONCRETE PIPE AND STRUCTURES, INCLUDING CAST-IN-PLACE CONCRETE ASSOCIATED WITH SANITARY SEWERS SHALL INCLUDE CORROSION REDUCTION ADDITIVES IN ACCORDANCE WITH SPECIFICATION 03300, SECTION 2.02.A.8.
- 29. MAINTAINING EXISTING SANITARY FLOW: EXISTING SANITARY SEWERS WITHIN THE PROJECT WORK LIMITS ARE ACTIVELY PROVIDING SANITARY SERVICE TO LOCAL RESIDENTS. THE FLOWS IN THESE SEWERS SHALL BE MAINTAINED THROUGH BYPASS PUMPING ACTIVITIES, AND SHALL BE DISCHARGED TO THE EXISTING DOWNSTREAM CONNECTION SEWER.
- 30. END TREATMENT: IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS. THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIPRAP, ROCK CHANNEL PROTECTION, SODDING, ETC.
- 31. <u>SEWER MAINTENANCE NOTIFICATION:</u> THE CONTRACTOR SHALL NOTIFY THE DIVISION OF SEWERAGE AND DRAINAGE SEWER MAINTENANCE OPERATION CENTER AT LEAST 24 HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION BY CALLING (614) 645-7102 DURING THE HOURS OF 7:30 A.M. TO 5:00 P.M., MON.-FRI.
- 32. OPEN EXCAVATIONS: ALL EXCAVATIONS SHALL BE MAINTAINED AS SAFE AS POSSIBLE BY THE CONTRACTOR AT ALL TIMES AND BACKFILLED AS SOON AS PRACTICAL. OPEN EXCAVATIONS AFTER WORK HOURS REQUIRE TRAFFIC PLATES, AND/OR LIGHTED BARRICADES AND CONSTRUCTION FENCE.
- 33. PERMANENT PAVEMENT REPLACEMENT: PAVEMENT REPLACEMENT SHALL BE PER TRANSPORTATION DIVISION STANDARD DRAWING 1441 DR. A. UNLESS OTHERWISE NOTED. PAYMENT SHALL BE BASED ON THE MINIMUM TRENCH WIDTH AS SHOWN ON STANDARD CONSTRUCTION DRAWINGS AA-S149, AA-S151, AND AA-S153. ANY EXCAVATION PERFORMED OR PAVEMENT REMOVED BEYOND THE MINIMUM TRENCH WIDTH, AND THE SUBSEQUENT PAVEMENT REPLACEMENT, DUE TO SITE CONDITIONS OR THE CONTRACTOR'S METHODS ARE DONE SOLELY AT THE CONTRACTOR'S EXPENSE, NO ADDITIONAL PAYMENT SHALL BE MADE FOR PERMANENT PAVEMENT REPLACEMENT.
- 34. CITY OF COLUMBUS PARK PROPERTY: THE CONTRACTOR SHALL CONTACT THE RECREATION AND PARKS DEPARTMENT NO LESS THAN ONE WEEK PRIOR TO ANY CONSTRUCTION IN OR NEAR CITY OF COLUMBUS PARK PROPERTY. CONTACT: DON EVANS EMAIL: deevans@columbus.gov PHONE: (614) 724–1553
- 35. TREE PRESERVATION: ALL PUBLIC TREES WHETHER SHOWN OR NOT SHOWN ON THE PLANS ARE TO BE PRESERVED UNLESS APPROVAL TO REMOVE OR PRUNE IS GIVEN IN WRITING BY COLUMBUS RECREATION & PARKS/CITY FORESTER OR THEIR REMOVAL HAS BEEN DESIGNATED ON THE PLAN. TREES REMOVED BY EITHER OF THE TWO PRECEDING AUTHORITIES SHALL BE PAID FOR IN THE BASE BID. CLEARING AND GRUBBING UNLESS OTHERWISE PROVIDED FOR BY UNIT PRICE BID SHALL BE PAID FOR IN THE BASE BID. THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS TO AVOID DAMAGE TO ALL OTHER TREES. ALL TREES REMOVED SHALL INCLUDE STUMP REMOVAL TO EIGHTEEN (18) INCHES BELOW GRADE.

ALL CLEARING AND GRUBBING DONE ON COLUMBUS RECREATION & PARKS PROPERTY/RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

CONTRACTOR SHALL REFER TO THE CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.

TREE PROTECTION: SUBMIT A TREE PROTECTION PLAN TO THE CITY DIVISION OF FORESTRY WITH A DRAWING OF ANY WORK LOCATED WITHIN THE DRIP LINE OF A PUBLIC TREE. PUBLIC TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION EXCAVATION, AS DESCRIBED IN THE "BEST MANAGEMENT PRACTICES - MANAGING TREES DURING CONSTRUCTION" A COMPANION PUBLICATION TO ANSI A300 PART 5.

FAILURE TO CONTACT: FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE APPLICANT REIMBURSING CITY FORESTRY FOR THE COST OF ANY AND ALL DAMAGE AS DETERMINED BY THE CURRENT CITY OF COLUMBUS EXECUTIVE ORDER 2015-01 FOR TREE PROTECTION AND REPLACEMENT.

PRUNING: BRANCHES OR GROWTH THAT INTERFERES WITH THE FREE CONSTRUCTION OF THE PROJECT MAY BE REMOVED FROM TREES/BUSHES THAT ARE TO BE SAVED BY THE USE OF PRUNING TOOLS WITH PRIOR APPROVAL FROM THE CMT. ALL PRUNING TOOLS USED AND METHODS EMPLOYED SHALL MEET THE APPROVAL OF THE CMT. THE BRANCHES SHALL BE REMOVED WITH A

GOOD CLEAN CUT MADE FLUSH WITH THE PARENT TRUNK OR IF HAVING A GOOD HEALTHY LATERAL BRANCH, THE CUT SHALL BE A GOOD CLEAN SLANTING CUT CLOSE TO AND BEYOND THE HEALTHY BRANCH. ALL PRUNING CUTS SHALL BE PAINTED WITH AN ACCEPTED PRUNING PRESERVATION.

TREES DAMAGED OR DESTROYED THAT WERE NOT DESIGNATED FOR REMOVAL OR APPROVED BY THE ENGINEER FOR REMOVAL SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. IF SUITABLE REPLACEMENT CANNOT BE DETERMINED. COMPENSATION BY THE CONTRACTOR FOR UNAUTHORIZED TREE REMOVAL SHALL INCLUDE SUFFICIENT ADDITIONAL LANDSCAPING AS DETERMINED BY RECREATION AND PARKS AND THE CITY FORESTER.

- 36. INDIANA BAT HABITAT PROTECTION: FOR ANY TREES DESIGNATED FOR REMOVAL THAT MAY BE POTENTIAL BAT HABITAT AREAS, <u>REMOVAL SHALL ONLY OCCUR</u> FROM OCTOBER 15TH TO MARCH 31ST. IF THE CONTRACTOR PREFERS TO REMOVE THE TREES OUTSIDE OF THIS TIMEFRAME, A SURVEY MUST BE CONDUCTED ACCORDING TO THE UNITED STATES FISH AND WILDLIFE SERVICES AND BY A BIOLOGIST WITH ALL REQUIRED FEDERAL AND/OR STATE COLLECTION PERMITS TO DETERMINE THE PRESENCE OF ANY INDIANA BATS. THE DATA COLLECTED DURING THE SURVEY MUST BE PROVIDED TO THE CITY ACCORDING TO THE CONDITIONS OF THE PERMIT AND ANY REGULATORY AUTHORITY REQUIREMENTS. IF NO BATS ARE PRESENT THE TREE SHALL BE REMOVED WITHIN 24 HOURS OF THE SURVEY BEING CONDUCTED. IF BATS ARE FOUND TO BE PRESENT, THE TREE SHALL REMAIN AND A PROTECTION AND ENHANCEMENT PLAN WILL BE REQUIRED.
- 37. <u>DUST CONTROL:</u> UNPAVED AREAS WILL BE WET DOWN (AS NECESSARY) DURING CONSTRUCTION TO MINIMIZE DUST GENERATION.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE CMT FOR DUST CONTROL AS THE NEED ARISES:

CMSC 616 WATER 100 M GALLONS CMSC 616 CALCIUM CHLORIDE 20 TONS

38. SEEDING & MULCHING: THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS IN CONFORMANCE WITH SPECIFICATION 02930 - LAWNS & GRASSES. ANY DISTURBED AREAS OUTSIDE THE PROJECT LIMITS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL WATER SEEDED AREAS AT A RATE OF 120 GALLONS PER 1.000 SQUARE FEET AS SOON AS THE SEED IS COVERED. THE CONTRACTOR SHALL WATER ALL SEEDED AREAS AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET EVERY OTHER DAY FOR FOUR WEEKS. WATERING SHALL BE PERFORMED IN THE MORNING BETWEEN 6:00AM AND 10:00 AM AND SHALL BE APPLIED BY MEANS OF A HYDRO-SEEDER OR A WATER TANK UNDER PRESSURE WITH A NOZZLE THAT WILL PRODUCE A SPRAY THAT WILL NOT DISLODGE THE MULCHING MATERIAL.

MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER ANY AREA IS SEEDED AND SHALL CONTINUE FOR A MINIMUM FOUR-WEEK ACTIVE GROWING PERIOD FOLLOWING THE COMPLETION OF ALL SEEDING WORK. AND UNTIL FINAL ACCEPTANCE OF THE PROJECT. IN THE EVENT THAT SEEDING OPERATIONS ARE COMPLETED TOO LATE IN THE FALL FOR ADEQUATE GERMINATION AND GROWTH OF GRASS. THEN MAINTENANCE SHALL CONTINUE INTO THE FOLLOWING SPRING.

MAINTENANCE SHALL INCLUDE RESEEDING. MOWING TO MAINTAIN A HEIGHT OF 3 INCHES, WATERING, WEEDING, FERTILIZING AND RESETTING AND STRAIGHTENING OF PROTECTIVE BARRIERS. MAINTENANCE SHALL ALSO INCLUDE CHEMICAL TREATMENTS AS REQUIRED FOR FUNGUS AND/OR PEST CONTROL.

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN THE SEEDED AREAS. AFTER THE GRASS IN SEEDED AREAS HAS APPEARED, ALL AREAS AND PARTS OF AREAS THAT, IN THE OPINION OF THE CITY, FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON WHATSOEVER SHALL BE RESEEDED AND SUCH AREAS AND PARTS OF AREAS SHALL BE RESEEDED REPEATEDLY UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY GROWTH OF GRASS. RESEEDING TOGETHER WITH NECESSARY GRADING, FERTILIZING, WATERING, AND TRIMMING SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- 39. SOIL STOCKPILES: ALL SOIL STOCKPILES, INCLUDING TRENCH EXCAVATION STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. EXCAVATED MATERIALS SHALL NOT BE STORED ON EXISTING PUBLIC ROADWAY PAVEMENTS. THIS INCLUDES EXCESS OR UNUSABLE EXCAVATED SOIL.
- 40. STORM SEWER INLET PROTECTION: ALL STORM SEWER INLETS SHALL BE PROTECTED FROM EXCESSIVE AMOUNTS OF SEDIMENTS USING ADEQUATE FILTERING DEVICES AS APPROVED BY THE DIVISION OF SEWERAGE AND DRAINAGE. THESE DEVICES SHALL BE MAINTAINED UNTIL THE DENUDED AREA HAS BEEN STABILIZED, OR AS DIRECTED BY THE CMT. STRAW OR HAY BALES ARE NOT APPROVED FOR INLET PROTECTION.
- 41. DISPOSAL OF EXCESS EXCAVATION: THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION. IF MATERIALS ARE DISPOSED ON PROPERTY WITHIN CITY LIMITS, THE CONTRACTOR SHALL PROVIDE A COPY OF THE SIGNED AGREEMENT AND A COPY OF THE GRADE AND FILL PERMIT OBTAINED FROM THE DEVELOPMENT DEPARTMENT.

THE CONTRACTOR IS PROHIBITED FROM LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS INCLUDING BUT NOT LIMITED TO WETLANDS, STREAMS, AND NATIVE HABITATS OF THREATENED OR ENDANGERED SPECIES.

ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

42. STREET CLEANING: THE CONTRACTOR SHALL KEEP STREETS FREE OF DIRT, SEDIMENT OR MUD ON OR OFF THE PROJECT SITE. THE CMT MAY DIRECT THE CONTRACTOR TO PERFORM STREET CLEANING PERIODICALLY OR ON A REGULAR INTERVAL IF EXCESSIVE AMOUNTS OF DIRT AND MUD ARE LEFT ALONG THE STREET. THIS MAY INCLUDE REMOVAL BY SWEEPING, POWER CLEANING, OR

GENERAL NOTES CONTINUED ON SHEET G-6

MANUAL METHODS AS STATED IN SPECIFICATION SECTION 01555, SITE MAINTENANCE AND CLEANING.

- 43. <u>NON-PERFORMANCE:</u> IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS OR OTHER WARNING OR PROTECTIVE DEVICES) REQUIRED OF THE CONTRACTOR BY THIS CONTRACT BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK, THE CONTRACTOR SHALL REIMBURSE THE CITY OR COUNTY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY OR COUNTY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF A DEDUCTION FROM THE CONTRACTOR'S NET PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY OR COUNTY.
- 44. MAINTENANCE OF TRAFFIC: MAINTENANCE OF TRAFFIC NOTES CAN BE FOUND ON SHEET MOT-1.
- 45. EROSION AND SEDIMENT CONTROL: EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NOS. G-8 THROUGH G-12 OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

ALL EROSION SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF THE CITY OF COLUMBUS, PROJECT ENGINEER AND/OR THE OHIO EPA.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF COLUMBUS TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE (1) OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING, AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATIONS TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER MANAGEMENT OFFICE AT 614-645-6700 OR BY FAX AT 614-645-1506. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE EROSION AND SEDIMENT POLLUTION CONTROL REGULATION (ADOPTED JUNE 1, 1994). FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION AS DETAILED IN THE COLUMBUS CITY CODES SECTION 1145.80.

THE NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENTATION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A  $\frac{1}{2}$ " STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

THIS PLAN MUST BE POSTED ON SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON SITE AT ALL TIMES.

46. PAVEMENT CUTTING, SAWING, AND EXCAVATION OPERATIONS NOTE: CONTRACTORS PERFORMING PAVEMENT-CUTTING OPERATIONS ON CITY OF COLUMBUS STREETS AND ROADWAYS SHALL PROTECT THE ENVIRONMENT FROM DISCHARGES CREATED BY THEIR PAVEMENT CUTTING OPERATIONS. NOTE THAT COLUMBUS CITY CODE 1145 PROHIBITS NON-STORMWATER DISCHARGE INTO THE CITY OF COLUMBUS SEWER SYSTEM, CURB INLETS, AND ANY PART OF ITS MS4 (MUNICIPAL SEPARATE STORM SEWER SYSTEM).

THE REQUIREMENT INCLUDES. BUT IS NOT LIMITED TO, WET OR DRY SAW-CUTTING, JACK HAMMERING, EXCAVATION EQUIPMENT USE, ETC, THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR WORK CREWS SHALL RECOVER AND DISPOSE OF DETRITUS, POLLUTED WATERS, OR OTHER SUCH DISCHARGES RESULTING FROM THEIR PAVEMENT CUTTING OPERATIONS AND PROTECT ALL STORM SEWER INLETS FROM RECEIVING ANY DISCHARGES FROM THE CONSTRUCTION OPERATIONS. THE AGENCY OR CONTRACTOR RESPONSIBLE FOR EACH PAVEMENT CUTTING ACTIVITY SHALL BE SOLELY LIABLE FOR NOTICE OF VIOLATIONS (NOV/s) AND FINES ISSUED BY CITY OF COLUMBUS AND/OR STATE OF OHIO AUTHORITIES.

EQUIPMENT, MATERIALS, AND METHODS SHALL BE PROVIDED BY THE CONTRACTOR TO WORK CREWS PERFORMING THE PAVEMENT CUTTING ACTIVITY AND MADE AVAILABLE TO WORK CREWS FOR USE IN CLEANING UP DISCHARGES RESULTING FROM SUCH CUTTING ACTIVITIES AND PREVENTING RUNOFF. ALL WORK CREWS SHALL BE TRAINED TO EXERCISE AND EMPLOY EQUIPMENT, MATERIALS, AND ENVIRONMENTAL PROTECTIVE MEASURES TO PREVENT POLLUTED DISCHARGES FROM ENTERING THE CITY OF COLUMBUS STORM SEWER SYSTEM AND WATERS OF THE STATE OF OHIO.

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS (SHEETS G-8 THROUGH G-12), NOTES, AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING, OR EXCAVATION OPERATIONS.

47. INCREASED OR DECREASED EARTH EXCAVATION: IF THE ENGINEER STATES IN WRITING THAT THE PROPOSED SEWER ELEVATION MUST BE CHANGED FROM THAT SHOWN ON THE PLAN, A PAYMENT ADJUSTMENT WILL BE MADE PER SP-12, CMS ITEM 104 SCOPE OF WORK/CHANGES.

48. CONSTRUCTION WITHIN FRANKLIN COUNTY:

STEEL PLATE INSTALLATION - THE CONTRACTOR SHALL NOTIFY THE FRANKLIN COUNTY ENGINEER ROAD SUPERVISOR (462-3072) 24 HOURS IN ADVANCE OF THE CONTRACTOR INSTALLING ANY STEEL PLATES.

FRANKLIN COUNTY ENGINEER'S MONUMENTATION - THE CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY ENGINEER'S OFFICE, SURVEY DEPARTMENT AT (614–525–2489) TWO WORKING DAYS BEFORE DISTURBING ANY FRANKLIN COUNTY GEODETIC MONUMENTS (VERTICAL AND/OR HORIZONTAL) FOR REFERENCE AND REPLACEMENT.

FRANKLIN COUNTY PERMIT – THE CONTRACTOR SHALL CONTACT UTILITIES COORDINATOR (614) 525-3063 TO SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER'S OFFICE, 970 DUBLIN RD, A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING WORK WITHIN FRANKLIN COUNTY R/W. THE CONTRACTOR WILL BE REQUIRED TO POST A BOND WITH THE FRANKLIN COUNTY ENGINEER PRIOR TO ISSUANCE OF THE PERMIT IN THE AMOUNT OF \$500,000 TO INSURE PROPER RESTORATION OF THE PAVEMENT AND R/W. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A 24-HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY.

UNTREATED SEPTIC CONNECTIONS - THIS PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY UNTREATED SEPTIC DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM. ANY PIPE POSSIBLY CARRYING UNTREATED SEPTIC FLOW SHALL BE LEFT EXPOSED. CALL FRANKLIN COUNTY PUBLIC HEALTH AT (614) 525–3909 AND THE FRANKLIN COUNTY DRAINAGE ENGINEER'S OFFICE AT (614) 525-7318 OR (614) 525-2787 FOR DIRECTION ON WHETHER OR NOT TO TIE THE PIPE INTO THE HIGHWAY DRAINAGE SYSTEM OR PLUG THE PIPE AT R/W LINE W/ CLASS C CONCRETE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE PRICE FOR GENERAL CONSTRUCTION.

EXISTING/UNIDENTIFIED STORM SEWERS - IF ANY EXISTING STORM SEWERS OR FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION, LEAVE EXPOSED AND CONTACT THE FRANKLIN COUNTY DRAINAGE ENGINEER'S OFFICE AT (614) 525-7318 OR (614) 525-2787 TO HAVE THE EXISTING TILE'S, SIZE, COMPOSITION, HORIZONTAL LOCATION, AND FLOWLINE SURVEYED.

EROSION CONTROL - THE CONTRACTOR SHALL FILE A NOTICE OF INTENT AS PER NPDES REQUIREMENTS INCLUDING ANY OFFSITE DUMPING OR BORROW AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY HIS SUBCONTRACTORS OF THE OEPA REQUIREMENTS. FURNISH COPIES OF THE DOCUMENTS TO FCEO.

- 49. CONSTRUCTION WITHIN DELAWARE COUNTY: ALL WORK WITHIN DELAWARE COUNTY ROAD RIGHT-OF-WAY IS SUBJECT TO THE INSPECTION AND APPROVAL OF THE DELAWARE COUNTY ENGINEER. THE CONTRACTOR SHALL SUBMIT FOR A PERMIT FROM THE DELAWARE COUNTY ENGINEER, 50 CHANNING STREET, DELAWARE, OHIO, FOUR (4) WEEKS IN ADVANCE OF STARTING ANY WORK WITHIN ROAD RIGHT-OF-WAY AND MUST CONTACT THE DELAWARE COUNTY ENGINEER 2 WORKING DAYS BEFORE WORK BEGINS.
- 50. ENCOUNTERING HAZARDOUS OR TOXIC MATERIALS: IF THE CONTRACTOR ENCOUNTERS ANY ABNORMAL MATERIAL SUCH AS, BUT NOT LIMITED TO, DRUMS, TANKS, OR STAINED EARTH OR ANY UNUSUAL ODOR DURING CONSTRUCTION OPERATIONS, THE WORK IN THIS AREA SHALL BE TEMPORARILY DISCONTINUED, EQUIPMENT LEFT IN PLACE. THE AREA CORDONED OFF AND THE ENGINEER NOTIFIED. IF THE AREA IS CONSIDERED TO CONTAIN HAZARDOUS OR TOXIC MATERIAL IT MUST BE HANDLED CORRECTLY IN ACCORDANCE WITH ALL LOCAL. STATE AND FEDERAL LAWS.
- 51. ARCHEOLOGICAL/HISTORICAL RESOURCES: IF THE EXCAVATION OPERATIONS ENCOUNTER REMAINS OR PREHISTORIC PEOPLE'S DWELLING SITES OR ARTIFACTS OF HISTORICAL OR ARCHEOLOGICAL SIGNIFICANCE, THE OPERATIONS SHALL BE TEMPORALLY DISCONTINUED IN THIS AREA AND THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE. THE CITY'S REPRESENTATIVE WILL CONTACT THE OHIO HISTORIC PRESERVATION OFFICE TO DETERMINE THE DISPOSITION OF THE FIND. AFTER CONSULTATION WITH THE OHIO HISTORIC PRESERVATION OFFICE. THE CITY'S REPRESENTATIVE MAY ELECT TO DISCONTINUE THE WORK IN THE AREA INDEFINITELY, RESUME NORMAL EXCAVATION, OR EXCAVATE FOR ARTIFACTS. WHEN DIRECTED BY THE CITY'S REPRESENTATIVE TO EXCAVATE FOR ARTIFACTS. THE CONTRACTOR SHALL EXCAVATE THE SITE N SUCH A MANNER AS TO PRESERVE THE ARTIFACTS ENCOUNTERED AND SHALL REMOVE THEM FOR DELIVERY TO THE CUSTODY OF THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOT DISTURB ANY HISTORICAL OR CULTURAL BUILDINGS, FOUNDATION, STRUCTURE, OR MATERIALS ABOVE OR BELOW THE GROUND SURFACE.
- 52. SANITARY CONVENIENCE FACILITIES: THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.
- 53. TEMPORARY CONSTRUCTION FENCING: TEMPORARY CONSTRUCTION FENCING AND GATES SHALL ENCLOSE THE CONSTRUCTION SITES. FENCING SHALL BE INSTALLED AS SHOWN ON THE PLANS. UNLESS MODIFICATIONS ARE APPROVED BY THE CMT. TEMPORARY CONSTRUCTION FENCING SHALL BE IN ACCORDANCE WITH SPECIFICATION 02830. TEMPORARY BARRIER AND TEMPORARY FENCES SHALL BE ERECTED PRIOR TO COMMENCING EXCAVATION. BARRIER AND FENCING SHALL BE MAINTAINED UNTIL ALL CONSTRUCTION, INCLUDING RESTORATION, IS COMPLETE AND ACCEPTED.

	EASEMENT REFER	ENCE		REVISIONS		PLAN PREPARED BY:		PROJECT TITLE:
CITY NO.	INSTRUMENT NUMBER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	<b>Ctopto</b>		BIG WALNUT TF CAPITAL IM 65
						June	GENERAL NOTES SHEET 2 OF 2	DIVISION USE O
						Stantec Consulting Services Inc. 1500 Lake Shore Drive, Suite 100 Columbus OH 43204-3800 Tel: 614.486.4383 www.stantec.com		

54. SURFACE DRAINAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO:

- 54.1. PROVIDE, INSTALL, MAINTAIN AND REMOVAL OF TEMPORARY CULVERTS AT ACCESS DRIVES, TEMPORARY ROADWAYS AND BARRIER LOCATIONS. 54.2. MAINTAIN OR IMPROVE EXISTING ROADSIDE DITCHES TO CARRY STORMWATER FLOWS THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT.
- 54.3. ROADSIDE DRAINAGE SHALL BE MAINTAINED SUCH THAT THE WATER SURFACE SHALL BE A MINIMUM OF 9-INCHES BELOW THE ADJACENT ROADWAY SURFACE.
- 54.4. LIMIT SITE DRAINAGE THROUGH DETENTION BASINS OR OTHER MEANS IN ORDER TO MINIMIZE CONCENTRATED FLOWS AND SEDIMENT TRANSPORT BEYOND THE LIMITS OF THE TEMPORARY EASEMENT. ANY AND ALL CLAIMS FILED BY PROPERTY OWNERS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 55. STATIONING: STATIONS ARE BASED ON DISTANCES ALONG THE TUNNEL CENTERLINE UNLESS NOTED OTHERWISE.
- 56. <u>AIR/NOISE CONTROL:</u> CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSION CONTROL EQUIPMENT. PERIODICALLY CHECK EQUIPMENT AND MACHINERY FOR PROPER TUNING TO MINIMIZE EXHAUST EMISSIONS AND NOISE.
- 57. WORK LIMITS: WORK LIMITS ARE DEFINED AS THE LIMITS OF THE TEMPORARY OR PERMANENT EASEMENTS. THE CONTRACTOR SHALL LIMIT OPERATIONS TO THOSE AREAS. AGREEMENTS FOR USE OF PRIVATE LANDS SHALL BE FORMALIZED IN WRITING. COPIES OF THOSE AGREEMENTS SHALL BE PROVIDED TO THE CITY'S REPRESENTATIVE SEVEN (7) DAYS PRIOR TO OCCUPATION.
- 58. DAMAGE TO PROPERTY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPLACEMENT OR REPAIR OF ALL PROPERTY DAMAGED OR DISTURBED DURING CONSTRUCTION TO ITS FORMER CONDITION AND TO THE SATISFACTION OF THE PROPERTY OWNER. SUCH ITEMS INCLUDE, BUT ARE NOT LIMITED TO, MAILBOXES, FENCES, GATES, LANDSCAPING, BUILDINGS, ETC.
- 59. SUBSURFACE INVESTIGATIONS: SUBSURFACE INVESTIGATIONS HAVE BEEN MADE FOR THIS PROJECT FOR DESIGN AND ESTIMATING PURPOSES AND ARE INCLUDED IN THE GEOTECHNICAL DATA REPORT (GDR) AND GEOTECHNICAL BASELINE REPORT (GBR). THE CONTRACTOR SHALL EXAMINE THIS INFORMATION AND OBTAIN ADDITIONAL INFORMATION, IF NECESSARY IN ITS JUDGEMENT. PRIOR TO ANY SUBSURFACE INVESTIGATIONS OR ON-SITE EXAMINATION OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE PROPERTY OWNER.
- 60. <u>OBSERVATION WELL ABANDONMENT</u>: AS PART OF THE SUBSURFACE INVESTIGATION FOR THIS PROJECT, OBSERVATION WELLS HAVE BEEN INSTALLED AND WILL REMAIN ACTIVE UNTIL COMPLETION OF THE PROJECT. THE CONTRACTOR WILL PROVIDE CONTINUOUS ACCESS TO THE OBSERVATIONS WELLS THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH SPECIFICATION SECTION 02970 ON ABANDONING THE EXISTING OBSERVATION WELLS IN ADDITION TO WELLS INSTALLED BY THE CONTRACTOR.
- 61. LICENSED SEWER TAPPER REQUIREMENT: IT SHALL BE UNLAWFUL FOR ANY PERSON TO ENGAGE IN THE BUSINESS OF SEWER TAPPING AND SEWER BUILDING, OR TO OPEN OR TAP ANY SEWER IN ANY STREET, ALLEY, OR ANY PUBLIC OR PRIVATE PLACE OR REHABILITATION OF ANY SEWER OR APPURTENANCES (INCLUDING MANHOLES, INLETS, AND SERVICE LATERALS) IN THE CITY OF COLUMBUS WITHOUT FIRST SECURING LICENCE TO ENGAGE IN SUCH BUSINESS AS INDICATED IN THE COLUMBUS CITY CODE SECTION 1131.01. UTILIZATION OF SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

	PIPE SPECIFICATIONS										
TYPE	PIPE SIZE	PIPE MATERIAL	MATERIAL SPECIFICATION	JOINT SPECIFICATION	BEDDING CLASSIFICATION	MINIMUM SLOPE	PIPE LENGTH	MAXIMUM MANHOLE SPACING			
GRAVITY	72"	FRPM	ASTM D3262	ASTM D4161	OTHER	0.10%	12,356	6,651 (SHAFTS)			
GRAVITY	24"	PVC	ASTM F679	ASTM D3212	OTHER	0.08%	40	24			

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		CONTR	ACTOR							
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	AGREE	EMENT	CON	IPLETED	N/ A		0-0	(0	01	00)
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### <u>GENERAL NOTES</u>

#### CONTRACTOR RESPONSIBILITY:

DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE OHIO EPA MANUAL "RAINWATER AND LAND DEVELOPMENT." THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE. INSPECTION, AND IN SOME CASES, RECONSTRUCTION IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

#### CONTRACTOR'S RESPONSIBILITIES:

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND DIMENSIONS MAY BE MADE BY THE ENGINEER, COLUMBUS AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL REPLACE INLET PROTECTION FOR EROSION CONTROL IMMEDIATELY AFTER CONSTRUCTION IN THE IMMEDIATE AREA OF THE CATCH BASINS OR INLETS HAS OCCURED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE CURRENT STORMWATER POLLUTION PREVENTION PLAN IMMEDIATELY AVAILABLE OR POSTED ON SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE CLEANED UP DAILY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORMWATER RUNOFF. UNTREATED SEDIMENT-LADEN RUNOFF SHALL NOT FLOW OFF OF SITE WITHOUT BEING DIRECTED THROUGH A CONTROL FEATURE. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONGSIDE RIVERS, STREAMS, OR CREEKS OR INTO NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO APPROVED AREAS; AFTER SOLIDIFYING, THESE WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.

THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS UPON PERMANENT STABILIZATION OF THE SITE.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE SEDIMENTATION AND EROSION CONTROL FEATURES DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS; HOWEVER, THE SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.

ALL TEMPORARY AND PERMANENT SEEDING SHALL BE COMPLETED USING THE REQUIREMENTS INDICATED UNDER SPECIFICATION 02930. THE COST FOR TEMPORARY CHANNELS, SEDIMENT DAMS, SEDIMENT BASINS, AND OTHER APPURTENANT EARTHMOVING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT.

IF CONTRACTOR HAS SOIL OFFSITE, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE OFFSITE AREA HAS OHIO EPA NPDES PERMIT COVERAGE, A SWPPP, AND PROPERLY INSTALLED AND MAINTAINED EROSION AND SEDIMENT CONTROLS.

MAINTENANCE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED AT A MINIMUM OF ONCE PER EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5 INCH 24 HR. RAINFALL EVENT OR GREATER. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE

REPLACEMENT: DUE TO THE ANTICIPATED DURATION OF THIS PROJECT, THE SEDIMENT CONTROL FEATURES ARE LIKELY TO DETERIORATE PAST WORKING CONDITION ANY STRUCTURES OR FEATURES DEEMED INSUFFICIENT BEYOND REPAIR BY THE ENGINEER, COLUMBUS OR THE EPA WILL NEED TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

NOTE: NOT ALL DETAILS INDICATED ON THE EROSION AND SEDIMENTATION CONTROL FEATURES INDICATED ON SHEETS G-8 AND G-9 WILL BE PERTINENT TO THIS PROJECT.

DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR EPA.

STREET CLEANING (ON AN AS-NEEDED) BASIS IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN STREET GUTTERS.

#### THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWPPP PLANS AND CONSTRUCTION SITES.

STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER (OEPA).

ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.

COMPLETE INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES ARE DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

#### TEMPORARY AND PERMANENT SEEDING:

ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

"TEMPORARY SEEDING:" DISTURBED AREAS THAT ARE TO REMAIN IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF THE MOST RECENT DISTURBANCE OF THE AREA. DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE SHALL BE STABILIZED WITHIN TWO (2) DAYS OF THE MOST RECENT DISTURBANCE. DISTURBED AREAS THAT ARE TO REMAIN IDLE OVER THE WINTER SHALL BE STABILIZED PRIOR TO THE ONSET OF WINTER WEATHER. TEMPORARY SEEDING SHALL CONSIST OF FERTILIZING, WATERING, AND MULCHING AT THE RATES INDICATED UNDER THE SPECIFICATION 02930 ITEMS. SEED MIX AND APPLICATION RATES ARE INDICATED WITHIN THE SWPPP. SEEDING SHALL CONSIST OF A RYEGRASS MIX, APPLIED BETWEEN MARCH 1 AND NOVEMBER 1. STRAW MULCH ONLY WILL BE USED TO TEMPORARILY STABILIZE AREAS BETWEEN NOVEMBER AND MARCH.

"PERMANENT SEEDING:" AREAS THAT ARE AT FINAL GRADE SHALL BE PERMANENTLY SEEDED WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE WITHIN THAT AREA. AREAS AT FINAL GRADE WITHIN 50' OF A STREAM SHALL BE SEEDED WITHIN TWO (2) DAYS OF REACHING FINAL GRADE. AREAS THAT ARE TO LIE DORMANT FOR ONE (1) YEAR OR MORE SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF THE MOST RECENT DISTURBANCE. PERMANENT SEEDING SHALL BE DONE BETWEEN MARCH 15 AND OCTOBER 15. IF SEEDING IS DONE BETWEEN OCTOBER 15 AND MARCH 15, IT SHALL BE CLASSIFIED AS "TEMPORARY SEEDING." PERMANENT SEED MIX SHALL BE IN ACCORDANCE WITH SPECIFICATION 02930. PERMANENT SEEDING SHALL CONSIST OF FERTILIZING, WATERING, SEEDING AND MULCHING AT THE RATES INDICATED UNDER THE SPECIFICATION 02930 ITEMS.

#### SOIL STOCKPILES:

ALL SOIL STOCKPILES, INCLUDING TRENCH EXCAVATION STOCKPILES SHALL BE PROTECTED FROM EROSION BY PERIMETER CONTROL DEVICES SUCH AS STRAW BALE DIKES OR SILT FENCES. THESE PERIMETER CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT. EXCAVATED MATERIALS SHALL NOT BE STORED ON EXISTING PUBLIC ROADWAY PAVEMENTS. THIS INCLUDES EXCESS OR UNUSABLE EXCAVATED

#### STORM SEWER INLET PROTECTION:

ALL STORM SEWER INLETS SHALL BE PROTECTED FROM EXCESSIVE AMOUNTS OF SEDIMENTS USING ADEQUATE FILTERING DEVICES AS APPROVED BY THE DIVISION OF SEWERAGE AND DRAINAGE. THESE DEVICES SHALL BE MAINTAINED UNTIL THE DENUDED AREA HAS BEEN STABILIZED, OR AS DIRECTED BY THE ENGINEER. STRAW OR HAY BALES ARE NOT APPROVED FOR INLET PROTECTION.

EASEMENT REFERENCE					REVISIONS		PLAN PREPARED BY:	
COUNTY RECORDER			NO.	0. DESCRIPTION APPROVAL/DATE				
CITY NO. VOL. P	PAGE	GRANIOR					1500 Lake Shore	
								Columbus, Ohio Tel. 614.486.43 www.stantec.col
								Evans, Mechwa Engineers = Surv 5500 New Alban Phone: 614.775.4

CONSTRUCTION DRAINAGE, DEWATERING AND GROUNDWATER THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF FEDERAL AMENDED (33 U.S.C. 1251 ET. SEQ.), AND THE OHIO REVISED CODE SUBMITTED A NOTICE OF INTENT FROM, AND RECEIVED A PERMIT FROM DISCHARGES FROM THIS PROJECT. THE CONTRACTOR SHALL AT ALL TIMES THE NOTICE OF INTENT FROM AND STORMWATER DISCHARGE PERMIT.

- ALL SUCH FLOWS ARE TO BE SETTLED IN SEDIMENTATION BASINS FILTERS BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAM SHALL NOT BE MADE ONTO EXPOSED SOILS, STREAM BANKS OR AN COULD CAUSE EROSION.
- 2. SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, EROSI INLET FILTERS SHALL BE USED TO PREVENT SILT FROM ENTERING THE
- 3. CONVEY WATER FROM THE CONSTRUCTION SITE IN A CLOSED EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

TUNNEL, SHAFT, TRENCH AND GROUNDWATER DEWATERING: ALL TRENCH DEWATERING SHALL BE PASSED THROUGH A SEDIMENT IMPOUND OUTLET PROTECTION MUST BE PROVIDED FOR EACH IMPOUNDMENT. THERE TO THE STREAM RESULTING FROM DEWATERING. IF ANY GROUNDWATER DEW CONTRACTOR SHALL CONTACT THE OHIO DEPARTMENT OF NATURAL RESOURCE PROPER WELL INSTALLATION AND ABANDONMENT AND A WATER WITHDRAW RE SHALL NOT DIRECT THE GROUNDWATER TO THE IMPOUNDMENT INTENDED FOR THE CONTRACTOR SHALL ENSURE GROUNDWATER DISCHARGES DO NOT RESU

RECEIVING STREAM.

- THE FOLLOWING PERFORMANCE STANDARDS HAVE BEEN ESTABLISHED FOR GF TSS - 100 MG/L RECEIVING STREAM - QUALITATIVE EVIDENCE OF IRON DEPOSITS
- 3. RECEIVING STREAM QUALITATIVE EVIDENCE OF THERMAL IMPACTS

SOIL STABILIZATION STABILIZATION OF DISTURBED AREAS SHALL, AT A MINIMUM, BE INITIATED IN A FRAMES SPECIFIED IN THE FOLLOWING TABLES

	PERMANENT S	FABILIZATIC
AREA REQUIRIN STABILIZ	G PERMANENT LATION	TIME FRAM
ANY AREAS THAT WILI ONE YEAR	LIE DORMANT FOR OR MORE	WITHIN SEVEN RECEN
ANY AREAS WITHIN SURFACE WATER OF FINAL C	I 50 FEET OF A THE STATE AND AT GRADE	WITHIN TWO DA
ANY OTHER AREAS	AT FINAL GRADE	WITHIN SEVEN D GRADE V

TEMPORARY S	TABILIZATIC
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAM (
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAY DISTURBANCE IF IDLE FOR N
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THIS WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN RECENT DISTURI FOR RESIDE DISTURBED ARE AT LEAST SI TRANSFER OF THE IN
DISTURBED AREAS THAT WILL BE IDLE	PRIOR TO TH

#### TEMPORARY CONSTRUCTION ENTRA SCALE: NONE

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NOTES:

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CON
- 2. LENGTH AS REQUIRED.
- 3. THICKNESS CMSC 703 12" NO. 2 LIMESTONE.
- 4. WIDTH TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-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 IMMEDIATELY.
- WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

	LINUSIN	SIN AND SEDIMEN				AIIVE	, <b>2</b> .		
DWATER CONTROL DISCHARGES: FEDERAL WATER POLLUTION CONTROL ACT, AS		ALL EROSION & SEDIMENT OF THE CITY OF COLUMBU	CONTROL	- PRACTICI R OHIO EI	ES ARE SI PA.	ЈВЈЕСТ ТО	FIELD MODIF	FICATION AT 1	HE DIRECTION
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ON BASINS OR DIRECTED THROUGH APPROVED AS STREAMS OR STORM SEWERS. DISCHARGE NKS OR ANY OTHER SITES, WHERE THE FLOW	DESIGNER CONTACT:	COLUMBUS, OHIO 43201–3 MARK HUDAK PH: 614–314–9785 MARK.HUDAK@STANTEC.COM	3800 1						
RMITTED TO ENTER THE STORM SEWER SYSTEM. ETS, EROSION CONTROL MEASURES SUCH AS ITERING THE STORM SEWERS.	OWNER:	CITY OF COLUMBUS DIVISION OF SEWERAGE & 1250 FAIRWOOD AVENUE COLUMBUS, OH 43206 PH: 614–645–7631	DRAINAGE						
		EMAIL: UTILITYLEADREP@CO	LUMBUS.G	OV		WALNUT S		IK SEWER EX	TENSION
FERING: NT IMPOUNDMENT STRUCTURE. ADEQUATE	TROLOT DECOMITION.	PROJECT. EACH OF THE F	OUR SHAF	TS ARE M	ORE THAN	$\frac{1}{4}$ MILE A	APART FROM I	EACH OTHER.	TENSION
WATER DEWATERING SHOULD OCCUR, THE L RESOURCES, DIVISION OF WATER, TO ASSURE ITHDRAW REGISTRATION. THE CONTRACTOR		SHAFT SITE	1	2A	2	3			
NOT RESULT IN DEPOSITS OF IRON IN THE		SITE AREA/EDA (AC.)	0.75	1.02	0.38	4.00			
		PRE-CONSTRUCTION IMPERVIOUS AREA (AC.)	0.00	0.04	0.00	0.00			
DSITS		POST-CONSTRUCTION	0.06	0.08*	0.03	0.11			
MPACTS		*3,542 SF OF IMPERVIOUS	AREA AT	SHAFT S	TE 2A FO	R BIKE PA	ATH INSTALLAT	ION HAS BEE	EN INCLUDED IN
NITIATED IN ACCORDANCE WITH THE TIME		THE HOOVER FARMS POST	-CONSTR	JCTION ST	ORMWATEF	BMP FOF	R DETENTION	AND QUALITY	(3642–E)
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RECENT DISTURBANCE		SHAFT 3: SP-5 - 5	HAFI 3 C	UNSTRUCT	ION COND	IIIONS			
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# Stantec

Drive, Suite 100 43204



GENERAL	
STORMWATER POLLUTION	PREVENTION
PLAN DETAILS AND	NOTES

PLAN VIEW

FOR BMP

|R-2 (54 of 68)|

**CONTROL/OUTLET** 

**STRUCTURE NO. (AS** 

**REFERENCED ON** 

PLANS)

1 (SHAFT SITE 1)

DITCH (SHAFT SITE 3) |R-6| (58 of 68)

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

(BMPs REQUIRED)

WATER QUANTITY

WATER QUANTITY

PAGE NUMBER | CONTROL FUNCTION

DRAINAGE AREA

TO CONTROL

0.06 ACRES

0.11 ACRES

FACILITY (ACRES) (SQUARE FEET)

GREEN

2,816 SQ. FT.

3,380 SQ. FT.

INFRASTRUCTURE

ROJECT TITLE: CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE	
CAPITAL IMPROVEMENTS PROJECT CIP 650033-100002	
DIVISION USE ONLY OWNER	
CONTRACTOR	
INSPECTOR SCALE: NOT TO SCALE SHEET: C-8 (8 c	f 68)
AGREEMENT COMPLETED NOT TO SCALE GOOD (GOO	1 00)
RPD     CKD     CLD     CON. DR.     CONTRACT DRAWING NO.     RECORD PLAN NO.	
CC-18351	





SEDIMENT AND EROSION CONTROL QUANTITY TABLE									
SPECIFICATION REFERENCE NUMBER	DESCRIPTION	QUANTITY	UNITS						
01356	SEDIMENT BASIN	1340	CY						
01356	SEDIMENT FENCE	3,410	FT						
01356	INLET PROTECTION	11	EA						
01356	STABILIZED CONSTRUCTION ENTRANCE	205	CY						
01356	CONCRETE WASHOUT AREA	4	EA						
01356	SEDIMENT BASIN SKIMMER	5	EA						
01356	SEDIMENT BASIN TEMPORARY OUTLET PIPES AND RISERS	240	FT						
01356	EROSION CONTROL MATTING, TYPE "B"	1,225	SY						

100 YEAR DETENTION TABLE									
LOCATIONVOLUME USED (CU-FT)VOLUME PROVIDED (CU-FT)ELEVATION (FT									
SHAFT SITE 1	559	1,435	970.26						
SHAFT SITE 3	840	1,548	997.75						





# Stantec

# GENERAL STORMWATER POLLUTION PREVENTION PLAN DETAILS AND NOTES

		4.
PROJECT TITL	E:	
BIG	WALNUT CAPITAL CI	TRUI IMPR P 65
	DIVISION U	ISE ONLY

200 PSI 0.84 MM 1 X 10<sup>-2</sup> SEC-1

\* - ALTERNATE FILTERING DEVICES SUCH AS AS DEWATERING ROLL-OFF BOXES MAY BE UTILIZED

UNDISTURBED VEGETATION

PLACE BAG ON AREA OF

**FILTER BAG** STORMWATER FLOW FLOW OUTFALL  $\sim \sim$  $\sim$ 

**FILTER BAG** -SEDIMENT FENCE OR STRAW BALE BARRIER

 $\sim$ ~~~~

FLOW

~~~

OUTFALL FLOW FLOW

FLOW

 $\sim\sim$ 

-SEDIMENT FENCE OR STRAW BALE BARRIER

STORMWATER

**GENERAL NOTES:** 

BEGINS.

RISER PIPE BASE:

SEDIMENT

BASIN

SHAFT

SHAFT 2

SHAFT 2A

SHAFT 3

SHAFT 3(2)

/ CONNECT TO

RISER PIPE

PVC END CAP-

PVC TEE-

SHAFT SITE 1

SHAFT SITE 2

SHAFT SITE 2A

SHAFT SITE 3

SHAFT SITE 3(2)

┍──┎┺┱┥┟┲┎┰─╴

<u>END VIEW</u>

SEDIMENT BASIN

INCHES IN THE CONCRETE BASE.

1. SEDIMENT BASINS SHALL BE CONSTRUCTED AND

OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE

TRIBUTARY

AREA (AC)

0.75

1.43

0.38

1.66

2.34

THE RISER PIPE SHALL BE SET AT A MINIMUM OF 12 5.

REQUIRED DEWATERING

(AC \* 67 CY)

50.25

95.81

25.46

111.22

156.78

ARM ASSEMBLY-

-PVC ELBOW

" HOLES IN

FLEXIBLE

HOSE

-PVC PIPE

SKIMMER SPECIFICATIONS

SKIMMER DIAMETER

SIZE (INCHES)

1.5

1.5

1.5

1.5

1.5

UNDERSIDE

SEDIMENT BASIN SKIMMER DETAIL

SCALE: NONE

PERSPECTIVE VIEW

WATER SURFACE

SCHEDULE 40~

PVC PIPE

SKIMMER ORIFICE

DIAMETER (INCHES)

0.9

1.3

0.9

1.5

1.5

∽₁⊥⊢

VOLUME



DISTURBED

ACREAGE

(AC)

0.75

1.02

0.38

1.66

2.34

PVC VENT-

PIPF

TRASH RACKS: THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE. CONNECT THE TEMPORARY SKIMMER TO THE SOLID

SEDIMENT SHALL BE REMOVED AND THE SEDIMENT BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN

THE SEDIMENT HAS FILLED HALF THE WET STORAGE

REQUIRED STORAGE

VOLUME

(AC \* 37 CY)

27.75

37.74

14.06

61.42

86.58

" ENCLOSURE

WATER ENTRY UNIT

ELEVATIONS CAN BE FOUND IN THE SEDIMENT

BASIN TEMPORARY OUTLET DETAIL ON THIS

PVC TEE-

FRONT VIEW

NOTES:

SHEET.

В

12"

12"

12" 12"

12"

12"

12"

-SCHEDULE 40

PVC PIPE

ORIFICE

PLATE

RISER PIPE AT THE NORMAL POOL ELEVATION. SEDIMENT CLEANOUT

SCALE: NONE

#### SEDIMENT BASIN TEMPORARY OUTLET TRASH RACK TOP OF RISER ELEV = GTEMPORARY RISER PIPE SOLID RISER PIPE DEWATERING ZONE PROVIDED = IK = CONNECT TEMPORARYSKIMMER TO THE RISER PIPE (SEE SKIMMER DETAIL THIS SHEET) NORMAL WATER SURFACE ELEV = F 1'-0"MIN 12" THICK CONCRETE SEDIMENT STORAGE ZONE PROVIDED = JMIN-> BOTTOM OF BASIN ELEV = HCAPACITY. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE AND BE STABILIZED SIMILAR TO OTHER FILL MATERIAL PLACED ON THE SITE. FINAL REMOVAL: THE SEDIMENT CONTROL STRUCTURE SHALL BE REMOVED ONLY AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED AND UPON APPROVAL FROM THE CITY OF COLUMBUS EROSION CONTROL INSPECTOR. С D Е G Н K 12" 12" 1.5' 27.02' 968.5 969.0 970.5 966.0 77 CY 32 CY 969.0 971.5 977.0 96 CY 53 CY 1.5' 22.27' 979.0 979.5 981.0 979.5 982.0 1.5' 28.54' 990.0 995.0 996.5 992.0 41.6 CY 23 CY 995.0 996.50 999.0 1.5' 51.17' 998.5 999.0 998.5 994.0 110 CY 61 CY 999.0 12" 1.5' 100.00' 995.5 995.5 997.0 994.0 807 CY 87 CY 995.5 997.0 LEVEL SPREADER DETAIL SCALE: NONE ALIGN TO EXISTING CONTOUR LEVEL OUTLET PROTECTION -----UNDISTURBED SOIL AND VEGETATION ----------<u>PLAN</u> ADJUST ENDS OF SPREADER TO TIE CONCRETE HEADWALL INTO HIGHER GROUND TO PREVENT FLOW AROUND THE SPREADER TOP OF COMPACTED ROCK LEVEL WITH UNDISTURBED SOIL PIPE OR CHANNEL SLOPE 2" LEVEL FLOW **-UNDISTURBED** 2" WIDTH (W) SLOPE VEGETATION MIN

### **SECTION**

### <u>NOTES:</u>

CONSTRUCT LEVEL SPREADER ON A LEVEL GRADE TO 5. ENSURE UNIFORM SPREADING OF STORM RUNOFF.

7 RIPRAP OUTLET T

GRAVEL BEDDING

OR GEOTEXTILE FABRIC

- LENGTH = W-

- LEVEL SPREADERS MUST BE CONSTRUCTED ON UNDISTURBED SOIL - NOT ON FILL.
- THE LEVEL SPREADER MUST OUTLET TO EROSION-RESISTANT AREAS WITH ESTABLISHED 6. EXISTING VEGETATION.
- ROCKS SHALL BE ODOT TYPE D WHERE 50% OF THE MATERIAL BY WEIGHT IS LARGER THAN 6 INCHES, AND 85% OF THE MATERIAL BY WEIGHT IS LARGER THAN 3 INCHES BUT LESS THAN 12 INCHES.

### INK EXTENSION PHASE 2 ROVEMENTS PROJECT 50033-100002

| ROCK | IN LE | EVEL S | PREADE | R SHAI | L BE   | COMP  | ACTED  | WITH |
|------|-------|--------|--------|--------|--------|-------|--------|------|
| AT L | EAST  | TWO    | PASSES | 6 OF   | HEAVY  | ′ MAC | HINER  | ′ TC |
| PREV | ENT I | FURTHE | ER SET | TLING. | SPRI   | EAD ( | GRAVEL | OF   |
| SOIL | OVER  | TOP (  | OF THE | PLACE  | ED RIP | RAP S | SURFAC | E TC |
| FILL | THE   | VOID   | S ANE  | ) INT  | ERLOC  | K TH  | IE RI  | PRAF |
| TOGE | THER. |        |        |        |        |       |        |      |
|      |       |        |        |        |        |       |        |      |

FERTILIZING, SEEDING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPLICABLE VEGETATIVE SPECIFICATION.

# CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

| LY |                     | OWI   | NER     |              |                      |        |                    |
|----|---------------------|-------|---------|--------------|----------------------|--------|--------------------|
|    |                     | CONTR | ACTOR   |              |                      |        |                    |
|    | INSPECTOR           |       |         |              | SCALE:               | SHEET: | $C_{-0}$ (0 of 68) |
|    | AGREEMENT COMPLETED |       | IPLETED | NOT TO SCALE | 3-3 (3 01 08)        |        |                    |
|    | RPD                 | CKD   | CLD     | CON. DR.     | CONTRACT DRAWING NO. | RECORD | PLAN NO.           |
|    |                     |       |         |              | CC-18351             |        |                    |



| EASEMENT REFERENCE |                      |                                |     | REVISIONS   |               | PLAN PREPARED BY:                                                          |
|--------------------|----------------------|--------------------------------|-----|-------------|---------------|----------------------------------------------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER    | GRANTOR                        | NO. | DESCRIPTION | APPROVAL/DATE |                                                                            |
|                    |                      |                                |     |             |               | 1500 Lake Shore E                                                          |
|                    | I.N. 202108240150883 | UPPER ALBANY WEST HOA, INC.    |     |             |               | Tel. 614.486.43<br>www.stantec.com                                         |
|                    | I.N. 200310310348945 | HURSEY; DEFAZIO                |     |             |               |                                                                            |
|                    | I.N. 200401090006908 | PHILLIPS, ROBERT N.            |     |             |               | EN                                                                         |
|                    | I.N. 202102220032565 | M/I HOMES OF CENTRAL OHIO, LLC |     |             |               | Evans, Mechwa<br>Engineers • Survi<br>5500 New Albany<br>Phone: 614.775.45 |





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|                      |                                                                                  | _                                                                                                                                                                                             |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EASEMENT REFERENCE   |                                                                                  |                                                                                                                                                                                               | REVISIONS                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PLAN PREPARED BY:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| INSTRUMENT NUMBER    | GRANTOR                                                                          | NO.                                                                                                                                                                                           | DESCRIPTION                                                                                                                                                          | APPROVAL/DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| I.N. 200404210089827 | GARDNER, HAROLD J. & HAZEL A.                                                    |                                                                                                                                                                                               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1500 Lake Sho<br>Columbus, Oh<br>Tel. 614.486<br>www.stantec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| I.N. 201909270126958 | M/I HOMES OF CENTRAL OHIO, LLC                                                   |                                                                                                                                                                                               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                      |                                                                                  |                                                                                                                                                                                               |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Evans, Mech<br>Engineers + S<br>5500 New Alb<br>Phone: 614.775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                      | EASEMENT RE<br>INSTRUMENT NUMBER<br>I.N. 200404210089827<br>I.N. 201909270126958 | EASEMENT REFERENCE         INSTRUMENT NUMBER       GRANTOR         I.N. 200404210089827       GARDNER, HAROLD J. & HAZEL A.         I.N. 201909270126958       M/I HOMES OF CENTRAL OHIO, LLC | EASEMENT REFERENCE NO.<br>INSTRUMENT NUMBER GRANTOR NO.<br>I.N. 200404210089827 GARDNER, HAROLD J. & HAZEL A.<br>I.N. 201909270126958 M/I HOMES OF CENTRAL OHIO, LLC | EASEMENT REFERENCE       REVISIONS         INSTRUMENT NUMBER       GRANTOR       NO.       DESCRIPTION         I.N. 200404210089827       GARDNER, HAROLD J. & HAZEL A.       Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Im | REVISIONS         INSTRUMENT NUMBER       GRANTOR       NO.       DESCRIPTION       APPROVAL/DATE         I.N. 200404210089827       GARDNER, HAROLD J. & HAZEL A.       Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" |

![](_page_10_Picture_4.jpeg)

### NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN, EPA REGULATIONS AND SPECIFICATION 01356.
- THE EROSION CONTROL MEASURES SHOWN HAVE BEEN DESIGNED TO 2. COLLECT SEDIMENT FROM SURFACE WATER RUNOFF. IN ORDER TO MAINTAIN COMPLIANCE WITH ALL REQUIREMENTS, ADDITIONAL FEATURES OR THE EXPANSION OF FEATURES BEYOND WHAT IS SHOWN MAY BE NECESSARY DURING HIGH RUNOFF PERIODS, OR IF THESE FEATURES ARE USED FOR GROUND WATER OR TUNNEL DISCHARGE.
- CONTOURS SHOWN ON THIS SHEET REFLECT THE ANTICIPATED 3. CONDITION RESULTANT FROM CONSTRUCTION ACTIVITIES. SEE THE SITE PLAN (SP) SHEETS FOR ORIGINAL CONDITIONS AND CONSTRUCTION ACTIVITIES.
- 4. ALTERATIONS TO THE SEDIMENT FENCE AND TEMPORARY CONSTRUCTION FENCE ALIGNMENTS IN THE VICINITY OF THE PROPOSED MANHOLES MAY BE NECESSARY TO FACILITATE THE CONTRACTOR'S CONSTRUCTION METHODS AND PROPOSED GRADING. THIS ALLOWANCE DOES NOT RELEASE THE CONTRACTOR FROM CONFORMING TO ALL SEDIMENT AND EROSION CONTROL REGULATIONS.
- 5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR OHIO EPA.
- 6. UPPER BANK ABOVE NORMAL WATER ELEVATION IN PROPOSED SEDIMENT BASIN SHOULD BE STABALIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING, OR SIMILAR GEO-TEXTILE.
- 7. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
- 8. CONTRACTOR SHALL NOT USE TEMPORARY EASEMENT OUTSIDE OF THE FENCE LIMITS UNLESS APPROVAL IS GRANTED BY THE CMT.

| <u>LEGEND</u> |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| <u>BOR</u>    | EXISTING CONSTRUCTION ACCESS DRIVE                                          |
|               | PROPOSED INLET BASIN PROTECTION                                             |
| \$F           | PROPOSED SEDIMENT FENCE                                                     |
| - <b>oo</b>   | PROPOSED TEMPORARY CONSTRUCTION FENCE WITH SOUND BLANKET<br>PER SPEC 028250 |
|               | PROPOSED WORK LIMITS                                                        |

| ( | <b>GRAPHIC SCALE</b> |      |      |           |  |    |  |  |  |
|---|----------------------|------|------|-----------|--|----|--|--|--|
| 0 | 1                    | 0    | 2    | 0         |  | 40 |  |  |  |
|   |                      |      |      |           |  |    |  |  |  |
|   |                      | 1 in | ch = | = 20 feet |  |    |  |  |  |

| NK EXTENSIOI<br>ROVEMENTS P<br>50033-100002 | N PH<br>ROJE<br>2   | HASE<br>CT | 2     |         | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|---------------------------------------------|---------------------|------------|-------|---------|-------------------------------------------------|--------------------------------------------------------------|
| 1                                           |                     | OW         | NER   |         |                                                 |                                                              |
|                                             |                     | CONTR      | ACTOR |         |                                                 |                                                              |
|                                             |                     | INSPE      | CTOR  |         | SCALE:                                          | SHEET: $C = 11$ (11 of 68)                                   |
|                                             | AGREEMENT COMPLETED |            |       | IPLETED | 1 =20                                           | 6-11 (11 01 08)                                              |
| RPD CKD CLD CON. DR.                        |                     |            |       |         | CONTRACT DRAWING NO.                            | RECORD PLAN NO.                                              |
|                                             |                     |            |       |         | CC-18351                                        |                                                              |

![](_page_11_Figure_0.jpeg)

| EASEMENT REFERENCE |                 |      |                                              |  | REVISIONS   |               | PLAN PREPARED BY:                                                                 |
|--------------------|-----------------|------|----------------------------------------------|--|-------------|---------------|-----------------------------------------------------------------------------------|
|                    | COUNTY RECORDER |      |                                              |  | DESCRIPTION | APPROVAL/DATE |                                                                                   |
| CITY NO.           | VOL.            | PAGE | GRANTOR                                      |  |             |               | 1500 Lake Shore D                                                                 |
|                    | 1884            | 757  | HENSEL, ANGELA L.                            |  |             |               | Columbus, Ohio 4:<br>Tel. 614.486.438<br>www.stantec.com                          |
|                    | 1884            | 762  | PATEL, AMRUTLAL J. &<br>BHOGILAL R. TRUSTEES |  |             |               |                                                                                   |
|                    | 1884            | 767  | PATEL, AMRUTLAL J. &<br>BHOGILAL R. TRUSTEES |  |             |               | $\mathbb{E}$                                                                      |
|                    |                 |      |                                              |  |             |               | Evans, Mechwar<br>Engineers - Surve<br>SSOD New Albany<br>Phone: 614.775.450<br>€ |

ROADWAY OWNER WHERE DAMAGE TO THE EXISTING PAVEMENT IS LIMITED TO THE IMMEDIATE SURFACE.

- RESURFACING.

![](_page_12_Figure_4.jpeg)

THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE ROADWAYS IN AN ACCEPTABLE CONDITION (AS DETERMINED BY THE CMT) DURING THE COURSE OF THE PROJECT. SHOULD EXCESSIVE DETERIORATION OF THE ROADWAY OCCUR DURING THE PROJECT, THE CONTRACTOR SHALL MAKE THE REPAIRS AS DIRECTED BY THE CMT IN ACCORDANCE WITH THE PLAN DETAILS AND AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL EXERCISE CARE IN PROTECTING ALL PUBLIC ROADWAYS ADJACENT TO THE PROJECT FOR THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL ORGANIZE A PRECONSTRUCTION COORDINATION MEETING AND SUBSEQUENT MEETINGS DURING CONSTRUCTION, AS NECESSARY, TO DISCUSS ROADWAY DETERIORATION, MAINTENANCE, AND REPAIR. IN ATTENDANCE SHALL BE THE CMT AS WELL AS CONTRACTORS FOR PROJECTS WITHIN THE CONSTRUCTION CORRIDOR AND ALONG THE HAUL ROUTES SHOWN ON SHEET

| DETAIL | CALLOUT |
|--------|---------|
|        |         |

| )    | CMSC | 204   | COMPACTED SUBGRAD              |
|------|------|-------|--------------------------------|
| )    | CMSC | 254   | PAVEMENT PLANING, A            |
| )    | CMSC | 301   | 6" ASPHALT CONCRET             |
| )    | CMSC | 304   | 6" AGGREGATE BASE              |
| )    | CMSC | 304   | 12" AGGREGATE BASE             |
| )    | CMSC | 407   | NON-TRACKING TACK              |
| )    | CMSC | 407   | NON-TRACKING TACK              |
| )    | CMSC | 409   | SAWING AND SEALING             |
| )    | CMSC | 441   | 2" ASPHALT CONCRET             |
| )    | CMSC | 441   | 1.5" ASPHALT CONCRE            |
| )    | CMSC | 605   | 4" PIPE UNDERDRAIN             |
| )    | CMSC | 609   | CURB AND GUTTER PE             |
| )    | CMSC | 703   | 12"#2 LIMESTONE                |
| )    | CMSC | 703   | 6"#2 LIMESTONE                 |
| )    | CMSC | 703   | 3" #57 LIMESTONE               |
| )    | CMSC | 703   | 6" #57 LIMESTONE               |
| )    | CMSC | 1525  | 1 <sup>1</sup> 2" #8 LIMESTONE |
| )    | CMSC | 1525  | 8" #57 LIMESTONE               |
| )    | SPEC | 02512 | PERMEABLE CONCRETE             |
| )    | SPEC | 02512 | INDUSTRIAL PAVE EDG            |
| )    | SPEC | 02930 | SEEDING AND MULCHI             |
| )    | CMSC | 605   | 6" PVC UNDERDRAIN              |
| )    | CMSC | 1525  | GEOTEXTILE FABRIC              |
| < l> |      |       |                                |

| AN PREPARED BY:                                                                                                                        |                 | PROJECT TITLE:                       |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|
| Stantec                                                                                                                                |                 | BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|                                                                                                                                        | NOTES & DETAILS | DIVISION USE ONI                     |
| Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |                 |                                      |

### NOTES:

- 1. INSTALLATION OF TREE PROTECTION SHALL BE PERFORMED BEFORE ANY SITE DEVELOPMENT ACTIVITY TAKES PLACE.
- 2. THE TREE PROTECTION BARRICADES SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION PHASE AND UNTIL ALL SITE DEVELOPMENT ACTIVITIES ARE FULLY COMPLETE.
- 3. ANY DAMAGE THAT MAY OCCUR TO THE BARRICADES SHALL BE REPAIRED OR REPLACED TO THE ORIGINAL SPECIFICATIONS WITHIN 24 HRS. OF THE DAMAGE OCCURRING.
- 4. THE AREA WITHIN THE TREE PROTECTION BARRICADES SHALL NOT BE USED FOR THE STORAGE OF ANY MATERIALS, SUPPLIES OR THE DISPOSAL OF ANY SOLID, LIQUID OR GASEOUS MATERIALS THAT COULD CAUSE HARM TO THE TREES.
- 5. BARRICADES SHALL PROTECT ALL TREES SCHEDULED TO REMAIN, BEFORE AND DURING ALL CONSTRUCTION ACTIVITIES.
- 6. TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE DRIP LINE.

![](_page_12_Figure_19.jpeg)

### DESIGNATIONS

ASPHALT CONCRETE – 1.5" TE BASE

COAT (0.08 GAL/SY) FOR SURFACE COURSE COAT (0.15 GAL/SY) FOR INTERMEDIATE COURSE GASPHALT CONCRETE PAVEMENT JOINTS TE, INTERMEDIATE COURSE, TYPE 2, (448) RETE, SURFACE COURSE, TYPE 1, (448), PG 70-22M

PER STD DWG 2010

PAVER ING

| JNK EXTENSIOI<br>ROVEMENTS PI<br>033–100002 | N PH<br>ROJE | HASE<br>CT | 2     |          | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|---------------------------------------------|--------------|------------|-------|----------|-------------------------------------------------------------|--------------------------------------------------------------|
| Y                                           |              | OW         | NER   |          |                                                             |                                                              |
|                                             |              | CONTR      | ACTOR |          |                                                             |                                                              |
|                                             |              | INSPE      | CTOR  |          | SCALE:                                                      | SHEET: $C = 13$ (13 of 68)                                   |
|                                             | AGREE        | EMENT      | CON   | PLETED   | N/A                                                         | 9-13 (13 81 88)                                              |
|                                             | RPD          | CKD        | CLD   | CON. DR. | CONTRACT DRAWING NO.                                        | RECORD PLAN NO.                                              |
|                                             |              |            |       |          | CC-18351                                                    |                                                              |
|                                             |              |            |       |          |                                                             |                                                              |

![](_page_13_Figure_0.jpeg)

|       | CURVE TABLE |                    |                   |          |                             |          |                             |          |                             |            |              |               |  |  |  |
|-------|-------------|--------------------|-------------------|----------|-----------------------------|----------|-----------------------------|----------|-----------------------------|------------|--------------|---------------|--|--|--|
| CURVE | RADIUS      | DELTA              | TANGENT<br>LENGTH | PC STA   | PC GRID<br>COORDINATES      | PI STA   | PI GRID<br>COORDINATES      | PT STA   | PT GRID<br>COORDINATES      | ARC LENGTH | CHORD LENGTH | CHORD BEARING |  |  |  |
| C1    | 900.00      | 32 <b>°</b> 29'13" | 262.22            | 30+95.20 | N 768407.76<br>E 1867882.15 | 33+57.42 | N 768669.51<br>E 1867897.82 | 36+05.51 | E 768881.88<br>N 1868051.62 | 510.31     | 503.50       | N19 40' 06"E  |  |  |  |
| C2    | 999.98      | 60 <b>°</b> 29'38" | 583.10            | 50+30.96 | N 770036.38<br>E 1868887.70 | 56+14.06 | N 770508.65<br>E 1869229.71 | 60+86.76 | E 770443.59<br>N 1869809.17 | 1055.80    | 1007.44      | N66 09 32 E   |  |  |  |
| C3    | 800.00      | 82°05'21"          | 696.52            | 61+79.10 | N 770433.29<br>E 1869900.94 | 68+75.62 | N 770355.57<br>E 1870593.11 | 73+25.28 | E 771030.47<br>N 1870765.35 | 1146.18    | 1050.63      | N55°21'41"E   |  |  |  |

|          | EASEMENT REF      | FERENCE | REVISIONS |             |               | PLAN PREPARED BY:                                              |
|----------|-------------------|---------|-----------|-------------|---------------|----------------------------------------------------------------|
| CITY NO. | INSTRUMENT NUMBER | GRANTOR | NO.       | DESCRIPTION | APPROVAL/DATE |                                                                |
|          |                   |         |           |             |               |                                                                |
|          |                   |         |           |             |               |                                                                |
|          |                   |         |           |             |               |                                                                |
|          |                   |         |           |             |               | Stantec Consulting Services<br>1500 Lake Shore Drive, Suite    |
|          |                   |         |           |             |               | Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |
|          |                   |         |           |             |               |                                                                |

| tantoc          |                                      | PROJECT TITLE:<br>BIG WALNUT TF<br>CAPITAL IM<br>65 |
|-----------------|--------------------------------------|-----------------------------------------------------|
| s Inc.<br>= 100 | CENTERLINE SCHEMATIC AND SHEET INDEX | DIVISION USE (                                      |

| SHAFTS |           |                 |                |  |  |  |  |  |  |  |
|--------|-----------|-----------------|----------------|--|--|--|--|--|--|--|
| SHAFT  | € STATION | NORTHING (GRID) | EASTING (GRID) |  |  |  |  |  |  |  |
| 1      | 0+37.50   | 765355.5183     | 1867699.4858   |  |  |  |  |  |  |  |
| 2A-1   | 35+20.40  | 768810.7026     | 1868005.0328   |  |  |  |  |  |  |  |
| 2A     | 35+40.41  | 768827.8194     | 1868015.3709   |  |  |  |  |  |  |  |
| 2-1    | 57+00.00  | 770412.2693     | 1869426.1026   |  |  |  |  |  |  |  |
| 2      | 57+20.00  | 770417.5067     | 1869445.4047   |  |  |  |  |  |  |  |
| 3      | 123+51.13 | 775900.2412     | 1872008.1366   |  |  |  |  |  |  |  |

![](_page_13_Figure_6.jpeg)

| JNK EXTENSIOI<br>ROVEMENTS PI<br>033–100002 | N PH<br>ROJE | HASE<br>CT | 2     |          | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|---------------------------------------------|--------------|------------|-------|----------|-------------------------------------------------------------|--------------------------------------------------------------|
| _Y                                          |              | OWI        | NER   |          |                                                             |                                                              |
|                                             |              | CONTR      | ACTOR |          |                                                             |                                                              |
|                                             |              | INSPE      | CTOR  |          | SCALE: 1"-400'                                              | SHEET: $C = 1$ (14 of 68)                                    |
| AGREEMENT COMPLETED                         |              |            |       |          | 1 =400                                                      |                                                              |
|                                             | RPD          | CKD        | CLD   | CON. DR. | CONTRACT DRAWING NO.                                        | RECORD PLAN NO.                                              |
|                                             |              |            |       |          | CC-18351                                                    |                                                              |

![](_page_13_Picture_8.jpeg)

![](_page_14_Figure_0.jpeg)

|          | EASEMENT REFER    | ENCE    |     | REVISIONS   |               | PLAN PREPARED BY:                                                    |                                 | PROJECT TITLE:                       |
|----------|-------------------|---------|-----|-------------|---------------|----------------------------------------------------------------------|---------------------------------|--------------------------------------|
| CITY NO. | INSTRUMENT NUMBER | GRANTOR | NO. | DESCRIPTION | APPROVAL/DATE | Stantoc                                                              |                                 | BIG WALNUT TRI<br>CAPITAL IMF<br>650 |
|          |                   |         |     |             |               | Julie                                                                | HORIZONTAL AND VERTICAL CONTROL | DIVISION USE ON                      |
|          |                   |         |     |             |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100 |                                 |                                      |
|          |                   |         |     |             |               | Columbus OH 43204-3800<br>Tel: 614.486.4383                          |                                 |                                      |
|          |                   |         |     |             |               | www.signiec.com                                                      |                                 |                                      |

![](_page_14_Figure_3.jpeg)

#### VERTICAL SOURCE

FCGS 5227 ALUMINUM CAP IN CONCRETE MONUMENT, AT A P.I. IN THE CENTERLINE OF CENTRAL COLLEGE ROAD, 904.1 FEET EAST OF LEE ROAD, 17.5 FEET SOUTH OF THE CENTERLINE, FLUSH WITH THE GROUND

EL 967.159 (NAVD88) NORTHING: 765273.486 EASTING: 1866683.688

VERTICAL CONTROL POINTS

<u>CP\_1</u> CORNER OF DRIVEWAY EL 1009.41 (NAVD88) NORTHING: 775875.948 EASTING: 1870821.493 <u>CP 2</u> CORNER OF DRIVEWAY AT ROAD EDGE EL 995.87 (NAVD88) NORTHING: 776769.287 EASTING: 1872778.933 <u>CP\_3</u> CORNER OF DRIVEWAY AT ROAD EDGE EL 977.11 (NAVD88) NORTHING: 772359.493 EASTING: 1869068.321 <u>CP\_4</u> CORNER OF DRIVEWAY EL 996.77 (NAVD88) NORTHING: 770270.734 EASTING: 1872419.914

<u>CP\_5</u> CORNER OF SIDEWALK

EL 968.22 (NAVD88) NORTHING: 765091.305 EASTING: 1866279.522

<u>CP\_6</u> CORNER OF SIDEWALK EL 980.16 (NAVD88) NORTHING: 763385.315 EASTING: 1868376.889 HORIZTONTAL SOURCE

| FRANK 83<br>STATION IS A STAINLESS STEEL ROD DRIVEN TO<br>ON HARLEM ROAD, 0.20 MILES SOUTH OF SMOT<br>BETWEEN RESIDENCE #8280 AND #8270, 45.7<br>POWER POLE #229A62, 16.1 FEET EAST OF THE<br>HARLEM ROAD, 22.7 FEET NORTH OF THE CENT<br>2 FEET WEST OF A WITNESS POST, ACCESS THE<br>ACCESS COVER. SEE "FRANK 183" FOR AZIMUTH<br>GRID FACTOR: 0.99997751 | A DEPTH OF 9 FEETFRANK 183THERS ROAD TO A P/LALUMINUM PLUG IITHERS ROAD TO A P/LMILES NORTH OF 'FEET NORTHEAST OFC&SOE SUBSTATIONE CENTERLINE OF#229A68, 153 FEEER OF A CATCH BASIN,FEET SOUTH OF CROUGH ALUMINUMPOST, 3 INCHES EH.AZ MH 1987."GRID FACTOR: 0.95 | N CONCRETE MONUMENT ON HARLEM ROAD, 0.75<br>WALNUT STREET TO A GRAVEL ENTRANCE TO A<br>N, 137.5 FEET SOUTHWEST OF POWER POLE<br>ET WEST OF THE CENTERLINE OF HARLEM ROAD, 11<br>ENTER OF THE DRIVE, 1 FOOT NORTH OF A WITNESS<br>BELOW THE GROUND. DISK IS STAMPED "FRANK 83 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NORTHING: 774907.310                                                                                                                                                                                                                                                                                                                                        | EASTING: 1872546.940                                                                                                                                                                                                                                             | NORTHING: 773931.230 EASTING: 1872603.360                                                                                                                                                                                                                                    |
| HORIZONTAL CONTROL POINTS (GRID COORDINATES)                                                                                                                                                                                                                                                                                                                | 1015                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                              |
| HC01<br>5/8"REBAR<br>NORTHING: 777387.6167 EASTING: 1872960.8217                                                                                                                                                                                                                                                                                            | 5/8" REBAR<br>NORTHING: 771898.9003 EASTING: 1870702.3                                                                                                                                                                                                           | 5/8" REBAR<br>535 NORTHING: 771972.6972 EASTING: 1869557.1412                                                                                                                                                                                                                |
| HC02                                                                                                                                                                                                                                                                                                                                                        | HC16                                                                                                                                                                                                                                                             | HC30                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | 5/8"REBAR                                                                                                                                                                                                                                                        | 5/8"REBAR                                                                                                                                                                                                                                                                    |
| NORTHING: 776655 5757 FASTING: 1872707 0047                                                                                                                                                                                                                                                                                                                 | NORTHING: 771506.1273 EASTING: 1870679.44                                                                                                                                                                                                                        | 845 NORTHING: 771621.1973 EASTING: 1869465.0076                                                                                                                                                                                                                              |
| HC03                                                                                                                                                                                                                                                                                                                                                        | HC17                                                                                                                                                                                                                                                             | HC31                                                                                                                                                                                                                                                                         |
| 5/8" REBAR                                                                                                                                                                                                                                                                                                                                                  | 5/8"REBAR                                                                                                                                                                                                                                                        | 5/8" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 776153.0550 FASTING: 1872556.1404                                                                                                                                                                                                                                                                                                                 | NORTHING: 771249.4656 EASTING: 1870718.6                                                                                                                                                                                                                         | 202 NORTHING: 771501.6524 EASTING: 1869294.6150                                                                                                                                                                                                                              |
| HC04                                                                                                                                                                                                                                                                                                                                                        | HC18                                                                                                                                                                                                                                                             | HC32                                                                                                                                                                                                                                                                         |
| MONUMENT IN ROUND-ABOUT                                                                                                                                                                                                                                                                                                                                     | 5/8" REBAR                                                                                                                                                                                                                                                       | 5/8"REBAR                                                                                                                                                                                                                                                                    |
| NORTHING: 775727.0113 EASTING: 1872499.0925                                                                                                                                                                                                                                                                                                                 | NORTHING: 770763.2354 EASTING: 1870676.0.                                                                                                                                                                                                                        | 301 NORTHING: 771344.5324 EASTING: 1869324.7268                                                                                                                                                                                                                              |
| HC05                                                                                                                                                                                                                                                                                                                                                        | HC19                                                                                                                                                                                                                                                             | HC33                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | 5/8" REBAR                                                                                                                                                                                                                                                       | 5/8" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 774679.5342 EASTING: 1872538.2645                                                                                                                                                                                                                                                                                                                 | NORTHING: 770408.0316 EASTING: 1870381.4                                                                                                                                                                                                                         | 582 NORTHING: 770480.5136 EASTING: 1869312.7433                                                                                                                                                                                                                              |
| HC06                                                                                                                                                                                                                                                                                                                                                        | HC20                                                                                                                                                                                                                                                             | HC34                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | MONUMENT                                                                                                                                                                                                                                                         | 5/8" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 773896.7434 EASTING: 1872516.8142                                                                                                                                                                                                                                                                                                                 | NORTHING: 775821.3093 EASTING: 1871840.3                                                                                                                                                                                                                         | 663 NORTHING: 770053.1008 EASTING: 1868918.7325                                                                                                                                                                                                                              |
| HC07<br>5/8"REBAR<br>NORTHING: 773362.3166 EASTING: 1872668.2833                                                                                                                                                                                                                                                                                            | 5/8" REBAR<br>NORTHING: 775158.5424 EASTING: 1871800.9-                                                                                                                                                                                                          | HC35<br>5/8" REBAR<br>472 NORTHING: 769512.5933 EASTING: 1868580.6137                                                                                                                                                                                                        |
| HC08<br>5/8"REBAR<br>NORTHING: 773057.8361 EASTING: 1871925.6718                                                                                                                                                                                                                                                                                            | 5/8" REBAR<br>NORTHING: 774406.9598 EASTING: 1871864.9                                                                                                                                                                                                           | HC36<br>5/8" REBAR<br>295 NORTHING: 768862.3332 EASTING: 1868077.9787                                                                                                                                                                                                        |
| HC09                                                                                                                                                                                                                                                                                                                                                        | HC25                                                                                                                                                                                                                                                             | HC37                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | 5/8" REBAR                                                                                                                                                                                                                                                       | 5/8" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 773083.0128 EASTING: 1871405.4898                                                                                                                                                                                                                                                                                                                 | NORTHING: 774092.9214 EASTING: 1870969.00                                                                                                                                                                                                                        | 649 NORTHING: 768391.7455 EASTING: 1867758.4619                                                                                                                                                                                                                              |
| HC10                                                                                                                                                                                                                                                                                                                                                        | HC24                                                                                                                                                                                                                                                             | HC38                                                                                                                                                                                                                                                                         |
| 5/8" REBAR                                                                                                                                                                                                                                                                                                                                                  | 5/8"REBAR                                                                                                                                                                                                                                                        | 1/2" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 773113.0839 EASTING: 1871223.5892                                                                                                                                                                                                                                                                                                                 | NORTHING: 773407.7082 EASTING: 1870909.2                                                                                                                                                                                                                         | 405 NORTHING: 768128.1343 EASTING: 1867980.3604                                                                                                                                                                                                                              |
| HC11                                                                                                                                                                                                                                                                                                                                                        | HC25                                                                                                                                                                                                                                                             | HC39                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | MONUMENT T2N R16W 1665                                                                                                                                                                                                                                           | 1/2" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 773097.8688 EASTING: 1871008.7030                                                                                                                                                                                                                                                                                                                 | NORTHING: 773127.3811 EASTING: 1870824.10                                                                                                                                                                                                                        | 056 NORTHING: 767854.1260 EASTING: 1867928.6195                                                                                                                                                                                                                              |
| HC12                                                                                                                                                                                                                                                                                                                                                        | HC26                                                                                                                                                                                                                                                             | HC40                                                                                                                                                                                                                                                                         |
| 5/8"REBAR                                                                                                                                                                                                                                                                                                                                                   | 5/8"REBAR                                                                                                                                                                                                                                                        | 1/2" REBAR                                                                                                                                                                                                                                                                   |
| NORTHING: 772962.0793 EASTING: 1870828.2074                                                                                                                                                                                                                                                                                                                 | NORTHING: 772807.2514 EASTING: 1870660.4                                                                                                                                                                                                                         | 287 NORTHING: 766297.2991 EASTING: 1867760.0594                                                                                                                                                                                                                              |
| HC13<br>5/8"REBAR<br>NORTHING: 772609.6509 EASTING: 1870766.2718                                                                                                                                                                                                                                                                                            | HC27<br>5/8" REBAR<br>NORTHING: 772330.7103 EASTING: 1870432.7<br>HC28                                                                                                                                                                                           | HC41<br>1/2" REBAR<br>703 NORTHING: 765470.4989 EASTING: 1867721.4445                                                                                                                                                                                                        |

HC14 5/8"REBAR

NORTHING: 772248.5452 EASTING: 1870751.6258

| EASEMENT REFERENCE                | REVISIONS                     | PLAN PREPARED BY:                                                                                  |                                 | PROJECT TITLE:                                               |                                   |                      |                                                            |
|-----------------------------------|-------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------|-----------------------------------|----------------------|------------------------------------------------------------|
| ITY NO. INSTRUMENT NUMBER GRANTOR | NO. DESCRIPTION APPROVAL/DATE | Stantoc                                                                                            |                                 | BIG WALNUT TRUNK EXTER<br>CAPITAL IMPROVEMENT<br>650033-1000 | NSION PHASE 2<br>S PROJECT<br>)02 | DEPARTMENT OF SEW    | OF PUBLIC UTILITIES<br>ERAGE AND DRAINAGE<br>SION USE ONLY |
|                                   |                               |                                                                                                    | HORIZONTAL AND VERTICAL CONTROL | DIVISION USE ONLY                                            | OWNER                             |                      |                                                            |
|                                   |                               |                                                                                                    | HOMZONIAL AND VERTICAL CONTROL  |                                                              | CONTRACTOR                        |                      |                                                            |
|                                   |                               | Stantec Consulting Services Inc.                                                                   |                                 |                                                              | INSPECTOR                         | SCALE:               | SHEET: $C_3$ (16 of 68)                                    |
|                                   |                               | 1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com | ,00 Lake Shore Drive, Suite 100 |                                                              | AGREEMENT COMPLETED               | N/A                  |                                                            |
|                                   |                               |                                                                                                    |                                 |                                                              | RPD CKD CLD CON. DR               | CONTRACT DRAWING NO. | RECORD PLAN NO.                                            |
|                                   |                               |                                                                                                    |                                 |                                                              |                                   | CC-18351             |                                                            |

ŃORTHING: 772045.6463 EASTING: 1870042.7228

5/8"REBAR

TEMPORARY BENCHMARKS TBM 2 NE CORNER OF 2'X1.5' CONC PAD ON SOUTH SIDE OF ENTRANCE TO 7050 HARI EL 993.13 (NAVD88) NORTHING: 777382.746 EASTING: 1872884.578 TBM 6 FCE DISK #5585 IN CONC MEDIAN, 130' SOUTH OF SMOTHERS & HARLEM INTERS EL 999.47 (NAVD88) NORTHING: 775606.127 EASTING: 1872473.158 <u>TBM 7</u> CHISELED SQUARE ON SW CORNER OF CB 20' N OF DRIVE AT 8299 HARLEM R EL 998.34 (NAVD88) NORTHING: 774977.713 EASTING: 1872502.628 TBM 10 FCE MON FRANK 183 FOUN SOUTH OF AEP ENTRANCE WEST OF HARLEM ROAD EL 1000.31 (NAVD88) NORTHING: 773931.236 EASTING: 1872603.358 <u>TBM 101</u> CHISELED 'X' ON TOP OF CONC AT SE CONER OF ELECTRIC TOWER 300' SOUTH SMOTHERS ROAD EL 1004.35 (NAVD88) NORTHING: 775575.196 EASTING: 1871908.148 TBM 103 CHISELED 'X' ON TOP OF CONC AT NE CORNER OF ELECTRIC TOWER 210' NORTH EL 1010.29 (NAVD88) NORTHING: 774600.216 EASTING: 1871834.268 <u>TBM 105</u> MAG SPIKE 24" IN TREE, 100' NW OF AEP SUBSTATION NW CORNER EL 1006.09 (NAVD88) NORTHING: 774313.096 EASTING: 1871323.438 <u>TBM 12</u> MAG SPIKE SET IN 18" TREE, 250' EAST OF IPS #8, 100' WEST OF ELECTRIC EL 998.88 (NAVD88) NORTHING: 773032.216 EASTING: 1872168.568 <u>TBM 21</u>  $\overline{\text{MAG}}$  SPIKE SET IN 48" TREE, 215' NORTH OF IPS #15 EL 1004.34 (NAVD88) NORTHING: 772110.486 EASTING: 1870738.068 TBM 25 MAG SPIKE SET IN 16" TREE, 225' NORTH OF IPS #18 ON FENCE LINE EL 991.82 (NAVD88) NORTHING: 773987.936 EASTING: 18720659.298

ALL BENCH MARKS AND ELEVATIONS SHOWN ARE BASED ON THE NAVD (NORTH AMERICAN VERTICAL DATUM OF 1988).

HORIZONTAL DATUM PER NAD83 (NSRS 2007) COORDINATES LISTED ARE GRID COORDINATES.

| RLEM ROAD    | <u>TBM 110</u><br>MAG SPIKE IN 24" DEAD TREE, 60' SE OF IPS #112<br>EL 999.43 (NAVD88) NORTHING: 771983.796 EASTING: 1870094.038                                 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RSECTION     | <u>TBM 115</u><br>MAG SPIKE IN 36" TREE, 60' SE OF IPS <b>#</b> 112<br>EL 978.13 (NAVD88) NORTHING: 771471.986 EASTING: 1869362.418                              |
| ROAD         | <u>TBM 119</u><br>MAG SPIKE IN 14" CONIFEROUS TREE, 60' SOUTH OF IPS #114, 275' NORTH OF WALNUT<br>EL 977.86 (NAVD88) NORTHING: 770766.676 EASTING: 1869364.488  |
|              | TBM 28<br>CHISELED 'X' IN RIM OF CB ON SOUTH SIDE OF WALNUT STREET BETWEEN DRIVES 5112 &<br>5120<br>EL 971.50 (NAVD88) NORTHING: 770460.194 EASTING: 1870097.728 |
| 'H OF        | TBM 121<br>CHISELED SQUARE ON NE CORNER OF CONC PAD FOR CB @SE CORNER OF WALNUT AND<br>LEE<br>EL 987.71 (NAVD88) NORTHING: 770446.346 EASTING: 1869217.268       |
| RTH OF FENCE | <u>TBM 124</u><br>PONY SPIKE FOUND ON TP POLE 412153, BETWEEN 7554 & 7559 LEE ROAD DRIVES<br>EL 995.51 (NAVD88) NORTHING: 769465.796 EASTING: 1868552.798        |
|              | <u>TBM 126</u><br>3/4" PIPE ON R/W LINE © 7440 LEE ROAD, 90' NORTH OF COUNTY LINE<br>EL 996.47 (NAVD88) NORTHING: 768598.686 EASTING: 1867954.368                |
| TOWER        | <u>TBM 129</u><br>MAG SPIKE SET IN 18" TREE, 6' NW OF SIBDIVISION/PROPERTY CORNER<br>EL 993.11 (NAVD88) NORTHING: 767908.311 EASTING: 1867933.158                |
|              | <u>TBM 132</u><br>CHISELED SQUARE ON THE NE CORNER OF CONC CB @ 6135 & 6141 SAUNDERS WAY<br>EL 989.38 (NAVD88) NORTHING: 767290.586 EASTING: 1867820.748         |
|              | <u>TBM 135</u><br>CHISELED SQUARE ON THE NE CORNER OF CB @ 5955 & 5961 BRICKLIN STREET<br>EL 972.88 (NAVD88) NORTHING: 765806.305 EASTING: 1867730.679           |

### BENCH MARKS

### <u>LEGEND</u>

BORING LOCATION

+

Image: OBSERVATION WELL LOCATION (NO BORING)

| Boring No.   | Station        | Offset             | Northing   | Easting    | Ground    | Observation |
|--------------|----------------|--------------------|------------|------------|-----------|-------------|
|              |                | ( )_ft (           |            |            | Elevation | Well        |
|              |                | (- left, + right)* |            |            |           |             |
| BTB-6        | 42+32          | -546.5             | 769709.70  | 1867976.40 | 984.50    | W           |
| FIB-19       | -0+20          | 11.9               | 765297.30  | 1867707.90 | 9/1.80    | W W         |
| FIB-20       | 35+44          | 8.9                | 768826.32  | 1868024.96 | 996.80    | W           |
|              | 4/+22          | 24.7               | 70321.50   | 1868/4/.80 | 996.80    |             |
|              | 54+21          | -24.7              | 770455.40  | 1869158.90 | 991.20    | 14/         |
| FIB-23       | 50+75          | -52.6              | 7704005.42 | 1009300.40 | 984.00    | VV          |
|              | 15,91          | 11.0               | 766905.02  | 1967902 96 | 974.20    | 14/         |
| FTB-25       | 23+78          | 11.1               | 767601.42  | 1867850.66 | 903.30    | vv          |
|              | 25+70          | 65                 | 768817.20  | 1868016 50 | 991.00    | \\\/        |
| FTB-29       | 56+67          | -60.5              | 770460 52  | 1860376.46 | 990.20    | VV<br>\\\/  |
| ATR_5        | 30+64          | -147.3             | 768384.02  | 1867733.26 | 904.40    | VV<br>\\/   |
|              | 70+42          | 638.8              | 700304.92  | 1871174 30 | 990.30    | vv          |
| B-1<br>B-7   | 66±90          | 70.7               | 770475.83  | 1870428.28 | 081 33    |             |
| B_8          | 75+41          | /0./               | 771110.66  | 1871286.62 | 1001.04   |             |
| B-0          | 71+00          | -626.8             | 771353 55  | 1870200.02 | 990 08    |             |
| B-9<br>B-12  | 85+51          | 408.2              | 772004 60  | 1871551 24 | 1001 00   |             |
| B-12<br>B-13 | 81+78          | -535 A             | 772094.09  | 1870531.66 | 008.80    |             |
| B-13         | 107+08         | _031.1             | 774538 35  | 1870600.62 | 1008 31   |             |
| B-14<br>R_15 | 122+54         | -951.1             | 775783 75  | 1872072.00 | 000.51    |             |
| B-15<br>R-16 | 3±00           | 90.0               | 765717.08  | 1867720.00 | 072.06    |             |
| B-10<br>B-17 | 2+02           | 173.3              | 765500 58  | 1867882.20 | 972.90    | ۱۸/         |
|              | 2+02           | 175.7              | 766286.18  | 1867031.27 | 975.05    | vv          |
|              | 9+00           | 22.2               | 700200.10  | 1960720.50 | 901.00    | \A/         |
|              | 62108          | 32.0               | 770306.65  | 1870020 40 | 979.13    | VV<br>\A/   |
|              | 02+90          | 17.7               | 770390.03  | 1070020.40 | 971.20    | vv          |
| B-21/B-21A   | 00+04          | 13.5               | 770465.47  | 1070321.23 | 982.25    |             |
| B-21B        | 66+72          | 41.9               | 770694.15  | 1870397.41 | 981.10    | \A/         |
| B-22         | 68+26          | -12.0              | 770624.15  | 1870496.07 | 984.12    | VV V        |
| B-23         | 09+99          | - 18.5             | 770990.30  | 1870608.79 | 986.36    |             |
| B-24         | 71+50          | -20.1              | 771204 59  | 1870000.96 | 969.58    |             |
| B-25         | 75+50          | 175.5              | 771204.38  | 1070990.00 | 994.90    |             |
| B-27         | 04+79          | -230.9             | 7772241.90 | 1070030.00 | 1001.22   | \&/         |
| D-29         | 94+70          | -420.4             | 774284 12  | 1971310.50 | 1001.25   | vv          |
|              | 117+01         | -207.0             | 774204.12  | 1971070 70 | 1004.00   | 14/         |
| B-33         | 07+11          | 192.3              | 774604.00  | 1071939.79 | 1009.72   | VV V        |
| B-36         | 6/+11          | 28.4               | 770523.47  | 1870425.40 | 982.40    |             |
| B-38         | 0+64           | 2.3                | /65381./6  | 1867703.37 | 972.35    | W           |
| B-39         | 68+52          | 1.1                | 770630.79  | 1870523.76 | 984.30    | W           |
| B-40         | 123+65         | -1.1               | 775913.83  | 1872010.50 | 998.10    | W           |
| B-41         | 20+25          | 154.4              | /67330.49  | 1867972.33 | 993.73    | W           |
| B-42         | 31+72          | 23.0               | /68481.12  | 1867912.79 | 995.53    |             |
| B-43         | 39+61          | -18.6              | /69180.47  | 1868244.95 | 990.64    | W           |
| B-44         | 52+37          | -1/.5              | //0202.80  | 1869013.26 | 996.08    |             |
| B-45         | 64+93          | -28.5              | //0487.16  | 18/0204.22 | 9/9.51    | W           |
| B-46         | 62+01          | 16.6               | //0414.60  | 1869921.69 | 973.25    |             |
| 8-4/         | 35+00          | -15.0              | 705755.70  | 100/981.90 | 996.30    |             |
| UW-1         | 0+40           | 49./               | 765355.38  | 186//49.31 | 9/2.96    | W           |
| 0W-2         | 0+44           | 101.1              | 765400.47  | 100/800.// | 9/3.80    | W           |
| 0W-3         | 1+12           | 9.0                | 765405 74  | 100//12.88 | 9/4./2    | W           |
| 0W-4         |                | 10.0               | 765755.04  | 100//12.45 | 9/3.//    | W           |
|              |                | 0.U                | 770650 50  | 100//0/.54 | 9/2.38    | VV          |
| 0W-6         | 00+00<br>67+01 |                    | 770574.04  | 1070507.00 | 984.96    | W           |
| 0w-/         | 0/+91          | / 0.0<br>1 E       | 770606 40  | 1070323.02 | 902.90    | VV          |
|              | 67164          | G.I                | 770607.07  | 1870407 70 | 903./3    | VV          |
| 0W-9         | 0/+54          | -40.0              | 775957 07  | 107007 54  | 983.02    | W           |
|              | 123+10         | 9.9                | //303/.03  | 1971061 44 | 331.93    | W           |
|              | 124+79         | -29.9              | 775097.00  | 1971001 41 | 1000 70   | W           |
| 0W-12        | 124+25         | -46./              | //5983.20  | 11.1881.11 | 1000.36   | W N         |

![](_page_16_Figure_4.jpeg)

\*LEFT/RIGHT DESIGNATIONS ARE BASED ON ALIGNMENT STATIONING AND NOT TUNNEL BORING DIRECTION.

| EASEMENT REFERENCE |                   |         | REVISIONS |             | PLAN PREPARED BY: |                                                               |
|--------------------|-------------------|---------|-----------|-------------|-------------------|---------------------------------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER | GRANTOR | NO.       | DESCRIPTION | APPROVAL/DATE     |                                                               |
|                    |                   |         |           |             |                   |                                                               |
|                    |                   |         |           |             |                   |                                                               |
|                    |                   |         |           |             |                   | Stantec Consulting Service<br>1500 Lake Shore Drive, Suite    |
|                    |                   |         |           |             |                   | Columbus OH 43204-3800<br>Tel:614.486.4383<br>www.stantec.com |

![](_page_17_Figure_0.jpeg)

![](_page_18_Figure_0.jpeg)

| 1 | 176.16        | 176.68                             |
|---|---------------|------------------------------------|
|   |               |                                    |
|   | PROJECT TITLE | :                                  |
|   | BIG           | WALNUT TRU<br>CAPITAL IMPF<br>6500 |
|   |               | DIVISION USE ONLY                  |
|   |               |                                    |
|   |               |                                    |
|   |               |                                    |
|   |               |                                    |
|   |               |                                    |

|    |        |        |        |        |        |        | 111 20040 | †∠ |
|----|--------|--------|--------|--------|--------|--------|-----------|----|
|    |        |        |        |        |        |        |           | _  |
| 0  | 23+00  | 24+00  | 25+00  | 26+00  | 27+00  | 28+00  | 29+00     |    |
| )6 | 991.71 | 991.99 | 992.96 | 992.96 | 993.00 | 993.84 | 994.46    |    |
| )8 | 817.18 | 817.28 | 817.38 | 817.48 | 817.58 | 817.68 | 817.78    |    |
| 98 | 174.53 | 174.71 | 175.58 | 175.48 | 175.42 | 176.16 | 176.68    |    |
|    |        |        |        |        |        |        |           |    |

![](_page_19_Figure_0.jpeg)

![](_page_19_Figure_1.jpeg)

| EASEMENT REFERENCE |                                                                                                                                              |                                                                                                                                                                    | REVISIONS |             | PLAN PREPARED BY: |                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-------------------|------------------------------------------------------------------------------------------------------------------------------|
| ITY NO.            | INSTRUMENT NUMBER                                                                                                                            | GRANTOR                                                                                                                                                            | NO.       | DESCRIPTION | APPROVAL/DATE     |                                                                                                                              |
|                    | I.N. 200404210089826<br>I.N. 200404210089827<br>I.N. 201909270126958<br>I.N. 200403250065168<br>I.N. 200401090006887<br>I.N. 200404300097812 | GARDNER, HAROLD J. & HAZEL A.<br>GARDNER, HAROLD J. & HAZEL A.<br>M/I HOMES OF CENTRAL OHIO, LLC<br>GREENLEE, GEORGE & FRANCYL<br>MILLER, SCOTT A.<br>TAYIM, FAUZI |           |             |                   | Stantec Consulting Service<br>1500 Lake Shore Drive, Suite<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |

|        | 1      | 1      | 1      | 1      | I      | 1      |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 39+00  | 40+00  | 41+00  | 42+00  | 43+00  | 44+00  | 45+00  | 46+00  |
| 990.99 | 990.85 | 990.82 | 991.41 | 993.73 | 994.27 | 995.29 | 995.88 |
| 818.78 | 818.88 | 818.98 | 819.08 | 819.18 | 819.28 | 819.38 | 819.48 |
| 172.21 | 171.98 | 171.84 | 172.33 | 174.55 | 174.99 | 175.91 | 176.40 |
|        |        |        |        |        |        |        |        |

| tantec<br>STA 33+00 TO STA 50+00 | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMPE<br>6500<br>DIVISION USE ONL |
|----------------------------------|------------------------------------------------------------------------------|
|----------------------------------|------------------------------------------------------------------------------|

![](_page_19_Figure_6.jpeg)

![](_page_20_Figure_0.jpeg)

| EASEMENT REFERENCE |                                                                                                                                                                      |                                                                                                                                                                | REVISIONS |             | PLAN PREPARED | BY:                                                                                                |                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------------|----------------------------------------------------------------------------------------------------|------------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER                                                                                                                                                    | GRANTOR                                                                                                                                                        | NO.       | DESCRIPTION | APPROVAL/DATE |                                                                                                    |                                          |
|                    | I.N. 200404300097812<br>I.N. 202010230166344<br>I.N. 200404210089851<br>I.N. 202011050174783<br>I.N. 202102220032565<br>I.N. 200401090006908<br>I.N. 202102220032566 | TAYIM, FAUZI<br>O'DANIEL, JOSEPH & MARGARET<br>PLAIN TWP, TR<br>PLAIN TWP, TR<br>M/I HOMES OF CENTRAL OHIO<br>PHILLIPS, ROBERT N.<br>M/I HOMES OF CENTRAL OHIO |           |             |               | Stantec Consulting<br>1500 Lake Shore D<br>Columbus OH 4320<br>Tel: 614.486.4383<br>www.stantec.co | g Service<br>rive, Suit<br>04-3800<br>om |

| tantec<br>PLAN<br>STA 50+ | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMPE<br>6500<br>DIVISION USE ONLY |
|---------------------------|-------------------------------------------------------------------------------|
|---------------------------|-------------------------------------------------------------------------------|

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

| EASEMENT REFERENCE |                                              | REVISIONS                                           |     |             | PLAN PREPARED BY: |                                                                                                                    | PROJECT TITLE:                             |                                 |
|--------------------|----------------------------------------------|-----------------------------------------------------|-----|-------------|-------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|
| CITY NO.           | INSTRUMENT NUMBER                            | GRANTOR                                             | NO. | DESCRIPTION | APPROVAL/DATE     |                                                                                                                    |                                            | BIG WALNUT TRUI<br>CAPITAL IMPF |
|                    | I.N. 202104190069498<br>I.N. 202101140008957 | FRANKLIN COUNTY PARKS<br>COLUMBUS SOUTHERN ELECTRIC |     |             |                   | <b>Stantec</b>                                                                                                     | PLAN AND PROFILE<br>STA 79+00 TO STA 96+00 | DIVISION USE ONLY               |
|                    |                                              |                                                     |     |             |                   | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel:614.486.4383 |                                            |                                 |
|                    |                                              |                                                     |     |             |                   | www.stantec.com                                                                                                    |                                            |                                 |

MBARCA 12/14/2021 2:06 PM PLOTTED: 1/7/2022 10:29 AM FILE: 11:\173409058\ hiizzsow\01 CAD\02 SHEFTS\C-Civ\\090F

| 93+00                                       | 94                    | +00<br>+00<br>ECTRIC COMPANY<br>81 HARLEM ROAD<br>20-000894-00 |                                      | c SOUTHERN OHIO<br>IC COMPANY<br>EM ROAD<br>001230-00<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/ | MATCH LINE STA. 96+00, SHEET C-11                                                                                       |       |
|---------------------------------------------|-----------------------|----------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------|
|                                             |                       |                                                                |                                      |                                                                                                                                                 | HILE 1010<br>1000<br>1000<br>9900<br>980<br>980<br>980<br>980<br>980<br>980                                             |       |
| 93+00<br>1002.00<br>824.18<br>177.82        | 94<br>100<br>82<br>17 | +00<br>02.00<br>4.28<br>7.72                                   | 95+00<br>1002.00<br>824.38<br>177.62 | 96+<br>1001<br>824<br>177.                                                                                                                      | E           -00         STATION           1.90         SURFACE           .48         INVERT           .43         DEPTH |       |
| JNK EXTENSIOI<br>ROVEMENTS PI<br>033–100002 | N PHASE<br>ROJECT     | 2<br>VER                                                       | DIV                                  | CITY OF O<br>DEPARTMENT OF<br>ISION OF SEWER<br>DIVISION                                                                                        | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY                                                            |       |
|                                             |                       | CTOR                                                           | SCALE: HORIZ                         | . 1" = 60'                                                                                                                                      | SHEET: 0_10 (27                                                                                                         | of ER |
|                                             |                       |                                                                | VERT.                                | 1" = 10'                                                                                                                                        | RECORD PLAN NO                                                                                                          |       |
|                                             |                       |                                                                | CC-                                  | 18351                                                                                                                                           | RECORD FLAIN NU.                                                                                                        |       |

![](_page_23_Figure_0.jpeg)

|  | Ste<br>15 |
|--|-----------|
|  | Co<br>Te  |

![](_page_23_Figure_2.jpeg)

| 180.3         | 32                | 181.                 |
|---------------|-------------------|----------------------|
|               |                   |                      |
| PROJECT TITLI | E:                |                      |
| BIG           | WALNUT<br>CAPITAL | TRUN<br>IMPR<br>6500 |
|               | DIVISION U        | SE ONLY              |
|               |                   |                      |
|               |                   |                      |
|               |                   |                      |
|               |                   |                      |
|               |                   |                      |

| 102+00  | 103+00  | 104+00  | 105+00  | 106+00  | 107+00  | 108+00  |   |
|---------|---------|---------|---------|---------|---------|---------|---|
| 1002.00 | 1004.16 | 1005.17 | 1006.00 | 1006.00 | 1004.51 | 1006.00 | 1 |
| 825.08  | 825.18  | 825.28  | 825.38  | 825.48  | 825.58  | 825.68  |   |
| 176.92  | 178.98  | 179.89  | 180.62  | 180.52  | 178.93  | 180.32  |   |
|         |         |         |         |         |         |         |   |

| RANEAN  | EASEMENT | $-\langle$ |
|---------|----------|------------|
| 2021011 | 40008957 |            |

|                 | APPROX. BORE BOUNDARY (TYP) |
|-----------------|-----------------------------|
|                 |                             |
| RANEAN EASEMENT |                             |

![](_page_24_Figure_0.jpeg)

| JNK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>033–100002 |       |                      |        |  |                | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |  |
|----------------------------------------------------------|-------|----------------------|--------|--|----------------|-----------------------------------------------------------|--------------------------------------------------------------|--|
| _Y                                                       |       | OW                   | NER    |  |                |                                                           |                                                              |  |
|                                                          |       | CONTR                | RACTOR |  |                |                                                           |                                                              |  |
|                                                          |       | INSPECTOR            |        |  |                | LE: HORIZ. 1" = 60' SHEET: $C_{12}$ (25)                  |                                                              |  |
|                                                          | AGREI | AGREEMENT COMPLETED  |        |  | VERT. 1" = 10' |                                                           |                                                              |  |
|                                                          | RPD   | RPD CKD CLD CON. DR. |        |  |                | T DRAWING NO.                                             | RECORD PLAN NO.                                              |  |
|                                                          |       |                      |        |  |                | CC-18351                                                  |                                                              |  |

![](_page_25_Figure_0.jpeg)

![](_page_26_Figure_0.jpeg)

|          | EASEMENT REF         | FERENCE                     |     | REVISIONS   |               | PLAN PREPARED               | BY:                                                               |
|----------|----------------------|-----------------------------|-----|-------------|---------------|-----------------------------|-------------------------------------------------------------------|
| CITY NO. | INSTRUMENT NUMBER    | GRANTOR                     | NO. | DESCRIPTION | APPROVAL/DATE |                             | 25                                                                |
|          |                      |                             |     |             |               | 1500<br>Colu                | Lake Shore D                                                      |
|          | I.N. 202108240150883 | UPPER ALBANY WEST HOA, INC. |     |             |               | Tel.                        | 614.486.438<br>v.stantec.com                                      |
|          | I.N. 200310310348945 | HURSEY; DEFAZIO             |     |             |               |                             | EN                                                                |
|          |                      |                             |     |             |               | Eva<br>Engi<br>5500<br>Phor | is, Mechwar<br>neers = Surve<br>New Albany<br>te:614.775.45(<br>€ |

![](_page_27_Figure_0.jpeg)

| EASEMENT REFERENCE |                      | REVISIONS                      |     |             | PLAN PREPARED BY: |                                                                                                                                                                                       | PROJECT TITLE:                                      |                               |
|--------------------|----------------------|--------------------------------|-----|-------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------|
| CITY NO.           | INSTRUMENT NUMBER    | GRANTOR                        | NO. | DESCRIPTION | APPROVAL/DATE     | <b>Stantec</b>                                                                                                                                                                        |                                                     | BIG WALNUT TRU<br>CAPITAL IMF |
|                    |                      |                                |     |             |                   | 1500 Lake Shore Drive, Suite 100<br>Columbus, Ohio 43204<br>Tel. 614.486.4383                                                                                                         |                                                     | CIP 6                         |
|                    | I.N. 201909270126958 | M/I HOMES OF CENTRAL OHIO, LLC |     |             |                   | www.stantec.com                                                                                                                                                                       | SHAFT SITE PLAN<br>SHAFT 2A CONSTRUCTION CONDITIONS | DIVISION USE ON               |
|                    |                      |                                |     |             |                   |                                                                                                                                                                                       |                                                     |                               |
|                    |                      |                                |     |             |                   | Evans, Mechwart, Hambleton & Tilton, Inc.<br>Engineers = Surveyors = Planners = Scientists<br>5500 New Albany Road, Columbus, OH 43054<br>Phone: 614.775.4500 Toll Free: 888.775.3648 |                                                     |                               |
|                    |                      |                                |     |             |                   | emat.com                                                                                                                                                                              |                                                     |                               |

![](_page_27_Figure_2.jpeg)

![](_page_27_Figure_4.jpeg)

- REFER TO THE MAINTENANCE OF TRAFFIC SHEETS FOR HAUL ROUTE
- 4. THE CONSTRUCTION WORK AREA MAY BE STABILIZED FOR CONSTRUCTION ACTIVITIES. ANY STABILIZATION WORK SHALL CONFORM TO THE APPROPRIATE
- 5. CONTRACTOR SHALL NOT USE TEMPORARY EASEMENT OUTSIDE OF THE FENCE
- 6. THE CONTRACTOR MAY NEED TO HAUL TOPSOIL OFFSITE FOR ADDITIONAL STORAGE. THE STOCKPILE LOCATION MUST BE APPROVED BY THE CMT PER
- 7. PRIOR TO THE START OF SHAFT 2A CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE THE EXISTING 8" WM IN 2 LOCATIONS TO DETERMINE THE EXACT LOCATION, ELEVATION, AND ALIGNMENT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS WITH THE CITY OF COLUMBUS AND DEL-CO AND COMPLETE THE UTILITY LOCATION WITHIN 45 DAYS OF THE NTP. THIS INFORMATION SHALL BE GIVEN TO THE CMT TO DETERMINE IF A CONFLICT EXISTS. IF IT IS DETERMINED THAT A CONFLICT DOES EXIST, THE PROJECT OWNER WILL DIRECT THE DESIGN ENGINEER TO DESIGN A WATERLINE RELOCATION PLAN FOR REVIEW, APPROVAL, AND PERMITTING BY DEL-CO WATER. THE WATERLINE RELOCATION WORK SHALL BE COMPLETED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR THE COST ASSOCIATED WITH THE CONSTRUCTION OF THIS WATERLINE RELOCATION WORK SHALL BE PAID FROM THE UTILITY RELOCATION ALLOWANCE. THE PROJECT OWNER WILL BE RESPONSIBLE TO ACQUIRE OR PROVIDE ALL EASEMENTS NEEDED TO PERFORM THE WATERLINE RELOCATION. THE CONTRACTOR SHALL ASSUME THAT THE SITE WILL BE INACCESSIBLE FOR STORAGE, SHAFT CONSTRUCTION, OR TUNNEL CONSTRUCTION FOR 6 MONTHS IMMEDIATELY FOLLOWING THE NTP TO

![](_page_27_Figure_11.jpeg)

| JNK EXTENSIOI<br>ROVEMENTS PI<br>50033-100002 | N PH<br>ROJE<br>2    | HASE<br>ICT | 2              |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|-----------------------------------------------|----------------------|-------------|----------------|----------|-----------------------------------------------------------|--------------------------------------------------------------|
| Y                                             |                      | OW          | NER            |          |                                                           |                                                              |
|                                               |                      | CONTR       | RACTOR         |          |                                                           |                                                              |
|                                               |                      | INSPE       | ECTOR          |          | SCALE: 1"-10'                                             | SHEET: SP_2 (28 of 68)                                       |
|                                               | AGREEMENT COMPLETED  |             | <b>IPLETED</b> | 1 = 10   | 31 - 2 (20 01 00)                                         |                                                              |
|                                               | RPD CKD CLD CON. DR. |             |                | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |
|                                               |                      |             |                |          | CC-18351                                                  |                                                              |

![](_page_28_Figure_0.jpeg)

|                                                  | NTS                                                                   |                                                                             |
|--------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Stantec<br>Drive, Suite 100<br>43204<br>383<br>m | SHAFT SITE PLAN<br>SHAFT 2A EX. PUMP STATION<br>DEMO PLAN AND DETAILS | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMP<br>CIP 6<br>DIVISION USE ON |
|                                                  |                                                                       |                                                                             |

![](_page_28_Figure_3.jpeg)

| PUMP INFORMATION |                                |         |           |                  |  |  |  |  |  |  |  |
|------------------|--------------------------------|---------|-----------|------------------|--|--|--|--|--|--|--|
| # OF PUMPS       | # OF PUMPS TYPE FLOW TDH MOTOR |         |           |                  |  |  |  |  |  |  |  |
| 2                | 4" SEWAGE CHOPPER PUMPS        | 406 GPM | 49.3 FEET | 10 HP @ 1750 RPM |  |  |  |  |  |  |  |

1 inch = 20 feet

| NK EXTENSIO<br>ROVEMENTS P<br>50033-10000 | N PH<br>ROJE<br>2 | HASE<br>CT | 2     |         |         | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWEF<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>RAGE AND DRAINAGE<br>USE ONLY |
|-------------------------------------------|-------------------|------------|-------|---------|---------|-----------------------------------------------------------|---------------------------------------------------------------|
| 1                                         |                   | OWI        | NER   |         |         |                                                           |                                                               |
|                                           |                   | CONTR      | ACTOR |         |         |                                                           |                                                               |
|                                           |                   | INSPE      | CTOR  |         | SCALE:  | Nat ta Carla                                              | SHEET: SP_3 (29 of 68)                                        |
|                                           | AGREE             | EMENT      | CON   | IPLETED |         | Not to Scale                                              | 31-3 (29 01 08)                                               |
| RPD CKD CLD CON. DR                       |                   |            |       |         | CONTRAC | T DRAWING NO.                                             | RECORD PLAN NO.                                               |
|                                           |                   |            |       |         |         | CC-18351                                                  |                                                               |

![](_page_29_Figure_0.jpeg)

|          | EASEMENT RE          | FERENCE                        |     | REVISIONS   |               | PLAN PREPARED BY:                                                           |
|----------|----------------------|--------------------------------|-----|-------------|---------------|-----------------------------------------------------------------------------|
| CITY NO. | INSTRUMENT NUMBER    | GRANTOR                        | NO. | DESCRIPTION | APPROVAL/DATE |                                                                             |
|          | I.N. 200401090006908 | PHILLIPS, ROBERT N.            |     |             |               | 1500 Lake Shore E<br>Columbus, Ohio 4<br>Tel. 614.486.43                    |
|          | I.N. 202102220032565 | M/I HOMES OF CENTRAL OHIO, LLC |     |             |               | www.sidnec.com                                                              |
|          |                      |                                |     |             |               |                                                                             |
|          |                      |                                |     |             |               | Ervois, MeChwo<br>Engineers - Surva<br>5500 New Albany<br>Phone: 614.775.45 |

![](_page_29_Picture_3.jpeg)

### <u>NOTES</u>

CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL PER SECTION 01356 AND THIS PLAN.

![](_page_29_Picture_6.jpeg)

- 2. REFER TO THE GENERAL NOTES FOR WORK SITE RESTRICTIONS.
- 3. REFER TO THE MAINTENANCE OF TRAFFIC SHEETS FOR HAUL ROUTE REQUIREMENTS.
- 4. THE CONSTRUCTION WORK AREA MAY BE STABILIZED FOR CONSTRUCTION ACTIVITIES. ANY STABILIZATION WORK SHALL CONFORM TO THE APPROPRIATE ITEM(S) WITHIN OF THE CMSC AND PROJECT SPECIFICATIONS.
- 5. CONTRACTOR MUST OBTAIN A FCEO DRIVE PERMIT.
- 6. STOCKPILE TOPSOIL IN AREAS APPROVED BY THE CMT PER SPEC 02110.

### <u>LEGEND</u>

|                   | X            |   | X         |                 |   |
|-------------------|--------------|---|-----------|-----------------|---|
| • •<br>• •<br>• • | · · ·<br>· · | • | <br><br>  | •               | • |
| $\times$          | X            | × | $\langle$ | $\left<\right>$ |   |

PROPOSED CONSTRUCTION ACCESS DRIVE (SEE DETAIL SHEET G-8)

- PROPOSED STABILIZED CONSTRUCTION WORK AREA
- PROPOSED ASPHALT CONSTRUCTION ENTRANCE
- \_\_\_\_\_ TEMPORARY CONSTRUCTION FENCE WITH SOUND BLANKET PER SPEC 02825

**GRAPHIC SCALE** 1 inch = 20 feet

| JNK EXTENSIOI<br>ROVEMENTS PI<br>50033–100002 | N PH<br>ROJE<br>2    | HASE<br>CT | 2              |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|-----------------------------------------------|----------------------|------------|----------------|----------|-----------------------------------------------------------|--------------------------------------------------------------|
| Y                                             |                      | OWI        | NER            |          |                                                           |                                                              |
|                                               |                      | CONTR      | ACTOR          |          |                                                           |                                                              |
|                                               |                      | INSPE      | ECTOR          |          | SCALE:                                                    | SHEET: SP_4 (30 of 68)                                       |
|                                               | AGREEMENT COMPLETED  |            | <b>IPLETED</b> | 1 =20    | 3F=4 (30 01 08)                                           |                                                              |
|                                               | RPD CKD CLD CON. DR. |            |                | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |
|                                               |                      |            |                |          | CC-18351                                                  |                                                              |

![](_page_30_Figure_0.jpeg)

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![](_page_31_Figure_0.jpeg)

![](_page_31_Figure_1.jpeg)

|          | EASEMENT REFERENCE |          |         |     | REVISIONS   | PLAN PREPARED BY: |                                                                             |
|----------|--------------------|----------|---------|-----|-------------|-------------------|-----------------------------------------------------------------------------|
|          | COUNTY             | RECORDER | CRANTOR | NO. | DESCRIPTION | APPROVAL/DATE     |                                                                             |
| CITY NO. | VOL.               | PAGE     | GRANTOR |     |             |                   | 1500 Lake Shore D                                                           |
|          |                    |          |         |     |             |                   | Columbus, Ohio 4<br>Tel. 614.486.438<br>www.stantec.com                     |
|          |                    |          |         |     |             |                   |                                                                             |
|          |                    |          |         |     |             |                   | EN                                                                          |
|          |                    |          |         |     |             |                   | Evans, Mechwar<br>Engineers - Surve<br>5500 New Albany<br>Phone: 614.775:45 |
|          |                    |          |         |     |             |                   | •                                                                           |

|                                                            |       |       | <u>f</u> | RELOC    | ATION   | N PROFILE SHAF                                              | <u>T 1</u>                                                   |
|------------------------------------------------------------|-------|-------|----------|----------|---------|-------------------------------------------------------------|--------------------------------------------------------------|
| JNK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>50033–100002 |       |       |          |          |         | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
| _Y                                                         |       | OWI   | NER      |          |         |                                                             |                                                              |
|                                                            |       | CONTR | ACTOR    |          |         |                                                             |                                                              |
|                                                            |       | INSPE | ECTOR    |          | SCALE:  | HORIZ. 1" = 60'                                             | SHEET: SP_6 $(32 \text{ of } 68)$                            |
|                                                            | AGREE | EMENT | CON      | IPLETED  |         | VERT. 1" = 10'                                              | 3F = 0 (32 01 00)                                            |
|                                                            | RPD   | CKD   | CLD      | CON. DR. | CONTRAC | T DRAWING NO.                                               | RECORD PLAN NO.                                              |
|                                                            |       |       |          |          |         | CC-18351                                                    |                                                              |
|                                                            |       |       |          |          |         |                                                             |                                                              |

![](_page_31_Figure_4.jpeg)

![](_page_31_Figure_5.jpeg)

<u>NOTE</u>

![](_page_32_Figure_0.jpeg)

| TUNNEL       | SUPPORT SC | HEDULE       |
|--------------|------------|--------------|
| FROM STATION | TO STATION | SUPPORT TYPE |
| 0+00         | 16+00      | B2           |
| 16+00        | 20+50      | B1           |
| 20+50        | 50+00      | А            |
| 50+00        | 59+00      | B1           |
| 59+00        | 64+50      | B2           |
| 64+50        | 69+50      | С            |
| 69+50        | 86+00      | B2           |
| 86+00        | 123+51     | А            |

TUNNEL SUPPORT SCHEDULE NOTES:

1. TYPE AND LOCATION OF SUPPORTS IN THIS SCHEDULE REPRESENT THE DESIGNER'S EVALUATION OF SUPPORT REQUIREMENTS BASED ON THE INTERPRETATION OF EXISTING SUBSURFACE INFORMATION. TYPE AND LOCATIONS MAY VARY FROM THOSE INDICATED. ACTUAL LOCATIONS FOR INSTALLATION OF VARIOUS SUPPORT TYPES SHALL BE DETERMINED WITH THE APPROVAL OF THE CMT AS THE EXCAVATION PROGRESSES PER SPECIFICATION 01200, SECTION 1.03.

2. REFER TO SPECIFICATION SECTION 02968 FOR TUNNEL INITIAL SUPPORT REQUIREMENTS.

|           | EASEMENT REFERENCE |          |  |     | REVISIONS                 | PLAN PREPARED BY:                             |
|-----------|--------------------|----------|--|-----|---------------------------|-----------------------------------------------|
|           | COUNTY             | RECORDER |  | NO. | DESCRIPTION APPROVAL/DATE |                                               |
| VOL. PAGE | GRANIUR            |          |  |     |                           |                                               |
|           |                    |          |  |     |                           | Columbus, Ohio 43204<br>Tel. 614.486.4383     |
|           |                    |          |  |     |                           | www.stantec.com                               |
|           |                    |          |  |     |                           | AECO                                          |
|           |                    |          |  |     |                           | 277 West Nationwide I<br>Columbus, Ohio 43215 |
|           |                    |          |  |     |                           | Tel. 614.464.4500<br>www.AECOM.com            |

![](_page_32_Figure_7.jpeg)

### NOTES:

- BE UTILIZED IN LIEU OF TIMBER LAGGING.
- EMBEDMENT IN ROCK.
- LININGS AS SHOWN AND SPECIFIED.
- FOR LARGER EXCAVATIONS.

- SHALL CONFORM TO ASTM A615.

| PROJECT TITLE:<br>BIG WALNUT TRUNK EXTENSION<br>CAPITAL IMPROVEMENTS PR<br>650033-100002 | N PH<br>Roje | HASE<br>ICT | 2     |          | CITY OF (<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|------------------------------------------------------------------------------------------|--------------|-------------|-------|----------|-------------------------------------------------------------|--------------------------------------------------------------|
| DIVISION USE ONLY                                                                        |              | OW          | NER   |          |                                                             |                                                              |
|                                                                                          |              | CONTR       | ACTOR |          |                                                             |                                                              |
|                                                                                          |              | INSPE       | CTOR  |          | SCALE:                                                      | SHEET: $DT_1$ (33 of 68)                                     |
|                                                                                          | AGREE        | EMENT       | CON   | IPLETED  | N.I.S.                                                      |                                                              |
|                                                                                          | RPD          | СКД         | CLD   | CON. DR. | CONTRACT DRAWING NO.                                        | RECORD PLAN NO.                                              |
|                                                                                          |              |             |       |          | CC-18351                                                    |                                                              |

# TYPICAL TUNNELING SECTIONS SHEET 1 OF 2

![](_page_32_Picture_20.jpeg)

M e Boulevard

1. WELDED WIRE FABRIC MATS (TO BE DESIGNED BY CONTRACTOR) MAY

2. THE PATTERNS AND SUPPORTS SHOWN FOR ROCK TUNNELS APPLY TO MECHANICAL EXCAVATOR AND DRILL & CONTROLLED BLASTING ASSUMING THAT THE ACTUAL OVERBREAK DOES NOT EXCEED 6" OUTSIDE THE DESIGN LINE. LOCALIZED OVERBREAKS MAY OCCUR.

3. ALL ROCK DOWEL LENGTHS AS SHOWN ON THE DRAWINGS REFER TO

4. DESIGN ALL STRUCTURAL CONNECTIONS, EXCEPT AS INDICATED.

5. EXCAVATION DIMENSION SHOWN INCLUDES MINIMUM DESIGN AND CONSTRUCTION TOLERANCES REQUIRED BY THE SPECIFICATIONS. THIS DIMENSION MAY BE INCREASED BY THE CONTRACTOR TO ACCOMMODATE SELECTED EQUIPMENT AND METHODS NECESSARY TO ALLOW THE INSTALLATION OF THE INITIAL SUPPORTS AND THE FINAL

6. THE TUNNEL EXCAVATION SUPPORT SHOWN IS INTENDED FOR UP TO 12–FOOT EXCAVATED TUNNEL DIAMETER. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE ADEQUACY OF SUPPORT DESIGN

7. FOR PIPE PLACEMENT PROVIDE PIPE CRADLE OR ALIGNMENT RAILS OR OTHER METHODS OF GRADE CONTROL AS REQUIRED BY SPECIFICATION SECTION 02991 AND AS ACCEPTED BY THE CMT.

8. PROVIDE FOR A MINIMUM GROUT THICKNESS OF 6 INCHES MEASURED FROM THE EXTERIOR SURFACE OF THE PIPE TO INITIAL SUPPORT ELEMENTS OR ROCK EXCAVATION SURFACE, WHICHEVER IS CLOSER.

9. ALL REINFORCING STEEL SHALL BE NEW, DEFORMED, GRADE 75 AND

![](_page_33_Figure_0.jpeg)

|                 | EASEMENT REFERENCE |      |                               |  | REVISIONS |  | PLAN PREPARED BY:                                                                |
|-----------------|--------------------|------|-------------------------------|--|-----------|--|----------------------------------------------------------------------------------|
| COUNTY RECORDER | RDER               |      | NO. DESCRIPTION APPROVAL/DATE |  |           |  |                                                                                  |
| CITY NO.        | VOL.               | PAGE | GRANIOR                       |  |           |  | 1500 Lake Shore Drive                                                            |
|                 |                    |      |                               |  |           |  | Columbus, Ohio 4320<br>Tel. 614.486.4383<br>www.stantec.com                      |
|                 |                    |      |                               |  |           |  | AECO                                                                             |
|                 |                    |      |                               |  |           |  | 277 West Nationwide<br>Columbus, Ohio 4321<br>Tel. 614.464.4500<br>www.AECOM.com |

![](_page_33_Picture_42.jpeg)

![](_page_34_Figure_0.jpeg)

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CITY NO.

# STRUCTURAL ABBREVIATIONS

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| ©<br>AB<br>ADD'L<br>AGGR<br>ALT<br>AL<br>ANCH<br>APPROX                                                             | AT<br>ANCHOR BOLT<br>ABOVE<br>ADDITIONAL<br>AGGREGATE<br>ALTERNATE<br>ALUMINUM<br>ANCHOR<br>APPROXIMATE                                                                                                                         |
| B/<br>BF<br>BL<br>BM<br>BOT<br>BRG<br>BTWN                                                                          | <b>B</b><br>BELOW<br>BOTH FACES<br>BOTTOM LAYER<br>BEAM<br>BOTTOM<br>BEARING<br>BETWEEN                                                                                                                                         |
| C.C.<br>CIP<br>CJ<br>€OR CL<br>CLR<br>CMT<br>COL<br>COMPR<br>CONC<br>CONN<br>CONST<br>CONT<br>CONTR<br>COORD<br>CTR | C<br>CENTER TO CENTER<br>CAST IN PLACE<br>CONTROL JOINT<br>CENTER LINE<br>CLEAR<br>CITY MANAGEMENT TEAM<br>COLUMN<br>COMPRESSIBLE<br>CONCRETE<br>CONNECTION<br>CONSTRUCTION<br>CONTINUOUS<br>CONTRACTOR<br>COORDINATE<br>CENTER |
| DET<br>DIA, Ø<br>DIAG<br>DIM<br>DN<br>DP<br>DWL                                                                     | D<br>DETAIL<br>DIAMETER<br>DIAGONAL<br>DIMENSION<br>DOWN<br>DEEP<br>DOWEL                                                                                                                                                       |
| EA<br>EE<br>EF<br>EJ<br>EL<br>EMB<br>ENG<br>EQ<br>ES<br>EW<br>EXCAV<br>EXP<br>EXPAN<br>EXT                          | E<br>EACH<br>EACH END<br>EACH FACE<br>EXPANSION JOINT<br>ELEVATION<br>EMBEDDED/EMBEDMENT<br>ENGINEER<br>EQUAL<br>EACH SIDE<br>EACH WAY<br>EXCAVATION<br>EXPOSED<br>EXPANSION<br>EXTERIOR                                        |
| FF<br>FIN<br>FRP<br>FT<br>FTG<br>FUT                                                                                | F<br>FAR FACE<br>FINISH<br>FIBERGLASS REINFORCED<br>PLASTIC<br>FEET<br>FOOTING<br>FUTURE                                                                                                                                        |
| GEN<br>GR                                                                                                           | <b>G</b><br>GENERAL<br>GRADE                                                                                                                                                                                                    |
| hk<br>Horiz<br>Hp                                                                                                   | HOOK<br>HORIZONTAL<br>HIGH POINT                                                                                                                                                                                                |
| ID<br>IF<br>INCL<br>INFO<br>INV<br>IJ                                                                               | INSIDE DIAMETER<br>INSIDE FACE<br>INCH(ES)<br>INCLUDE(ED)(ING)<br>INFORMATION<br>INVERT<br>ISOLATION JOINT                                                                                                                      |
| JT                                                                                                                  | J                                                                                                                                                                                                                               |
|                                                                                                                     | EASEMENT REFEREN                                                                                                                                                                                                                |

#### LENGTH POUND LEV LEVEL LONG LOC LOCATION LONG LONGITUDINAL LP LOW POINT LSMB LOW-STRENGTH MORTAR BACKFILL MAS

MASONRY MAXIMUM MINIMUM

# Ν

NEW NUMBER NEAR FACE NOMINAL NEAR SIDE NOT TO SCALE

# 0 ON CENTER

OUTSIDE DIAMETER OUTSIDE FACE OPENING OPPOSITE

# D

PLATE PRECAST CONCRETE POUNDS PER CUBIC FT PROFESSIONAL ENGINEER PERIM PERIMETER POUNDS PER SQ FT POUNDS PER SQ IN

# R

RADIUS, RADIAL RCP REINFORCED CONCRETE PIPE REBAR REINFORCING BAR REINF REINFORCING BAR REINF REINFORCE

REQ'D REQUIRED REV REVISE (REVISION)

# S

SECT SECTION SHT SHEET SIM SIMILAR SPA SPACE(S)(ING) SPRING LINE \$OR SL SS STAINLESS STEEL STIR STIRRUP STEEL STL STRUCT STRUCTURE(AL)

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**W**/0

WP

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WWF

TOP & BOTTOM TOP OF TUNNEL BORING MACHINE THICK TYPICAL U

UNLESS NOTED OTHERWISE

#### VERT VERTICAL

WIDE WITH WITHOUT WIND LOAD WORK POINT WATER STOP WELDED WIRE FABRIC

### GENERAL CONDITIONS

- COORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED OHIO AT NO COST TO THE OWNER OR ENGINEER AND SUBMITTE SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONS
- 2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE CONSTRUCTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
- SEE THE CIVIL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE CIVIL DRAWINGS. REPORT ALL DISCREPANCIES TO THE CMT FOR RESOLUTION BEFORE PROCEEDING.
- 4. THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION PRIOR TO FINAL DETAILING AND FABRICATION OF NEW STRUCTURAL ELEMENTS.
- DURING CONSTRUCTION, ALL TANKS, CONCRETE STRUCTURES, ETC. ARE BUOYANT WHEN EMPTY. IN THE EVENT THAT 5. THE EXCAVATION BECOMES FLOODED OR THE SURROUNDING GROUND BECOMES SATURATED, THEY MUST BE FILLED WITH WATER TO PREVENT FLOTATION. PROVIDE OPENINGS OR OTHER DEVICES THAT WILL MAINTAIN THE WATER LEVEL ON THE INSIDE AT THE SAME ELEVATION AS ON THE OUTSIDE AND TAKE OTHER MEASURES AS REQUIRED TO ASSURE THAT THE STRUCTURES DO NOT FLOAT.

### FOUNDATIONS

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL BASELINE REPORT. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE UTILITIES AND THEIR CONDITIONS / LOCATIONS AT SHAFT SITES BEFORE **BEGINNING CONSTRUCTION.**
- 2. NOTIFY THE CMT AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS AT VARIANCE WITH TEST BORINGS, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS OR SOIL OF INADEQUATE BEARING CAPACITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL CLEARANCE OF ANY REQUIRED 3. NEEDLING, UNDERPINNING, SHORING OR BRACING OF EXISTING STRUCTURES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL EXCAVATION SUPPORTS REQUIRED FOR THE NEW CONSTRUCTION. PROVIDE DETAILED DRAWINGS AND SPECIFICATIONS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN OHIO FOR THE CMT'S REVIEW.

### CAST-IN-PLACE CONCRETE

- CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO, ACI 117, ACI 301 (AS MODIFIED IN THE PROJECT MANUAL.), ACI 315, ACI 318 AND ACI 350.
- 2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
  - CLASS A 5000 PSI WITH ENTRAINED AIR FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE
  - CLASS F 3000 PSI WITH ENTRAINED AIR
  - CLASS L 1500 PSI WITHOUT ENTRAINED AIR
- 3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 4. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. USE STANDARD 90° BAR HOOK UNLESS NOTED OTHERWISE.
- 6. PROVIDE HORIZONTAL CONSTRUCTION JOINTS IN WALLS AT A MAXIMUM VERTICAL SPACING OF 30'-0". ALL WALLS SHALL BE CAST MONOLITHICALLY, EXCEPT FOR REQUIRED CONTROL/CONSTRUCTION JOINTS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL SUBMIT ALTERNATE AND ADDITIONAL CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. REINFORCEMENT SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS UNLESS DETAILED OTHERWISE ON THE DRAWINGS. SUBMIT ALL CONSTRUCTION JOINT LOCATIONS WITH THE REINFORCING STEEL SHOP DRAWINGS.
- UNLESS NOTED OTHERWISE OR SHOWN ON THE DRAWINGS, PROVIDE A CONTINUOUS SHEAR KEY OR KEYWAY IN SLABS 7. AND WALLS. THE MINIMUM KEY SIZE SHALL BE 1 1/2" DEEP x 1/3 THE DEPTH OR WIDTH OF THE MEMBER.
- 8.. ALL CONSTRUCTION JOINTS SHALL HAVE WATERSTOPS.

|                    | 00111  |          |   |           |     |                   |               |                                                                                     |
|--------------------|--------|----------|---|-----------|-----|-------------------|---------------|-------------------------------------------------------------------------------------|
| EASEMENT REFERENCE |        |          |   | REVISIONS |     | PLAN PREPARED BY: |               |                                                                                     |
|                    | COUNTY | RECORDER |   |           | NO. | DESCRIPTION       | APPROVAL/DATE |                                                                                     |
| CITY NO.           | VOL.   | PAGE     |   | GRANTOR _ |     |                   |               |                                                                                     |
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|                    |        |          |   |           |     |                   |               | www.stantec.com                                                                     |
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| RELATED TO THE STRUCTURAL WORK. ANY    |  |
|----------------------------------------|--|
| BY A PROFESSIONAL ENGINEER LICENSED IN |  |
| D TO THE CMT FOR REVIEW. SUBMITTAL     |  |
| TRUCTION.                              |  |

- 10. WATERSTOP FOR CONSTRUCTION JOINTS SHALL BE PVC SERRATED TYPE WITHOUT CENTER BULB, NOT LESS THAN 9" WIDTH AND 3/8" THICK, WITH ALL JOINTS SPLICED, UNLESS NOTED OTHERWISE.
- 11. WATERSTOP FOR EXPANSION JOINTS SHALL BE PVC SERRATED TYPE, WITH CENTER BULB NOT LESS THAN 9" WIDTH AND 3/8" THICK. WITH ALL JOINTS SPLICED.
- 12. WATERSTOP FOR REMOVABLE CONCRETE SECTIONS, OR NEW SECTIONS CAST AGAINST EXISTING SHALL BE HYDROPHYLIC. ADHESIVE STRIP.
- 13. ALL WATERSTOPS SHALL BE PROPERLY SUPPORTED AND WIRED TO REINFORCING TO REMAIN STRAIGHT AND TRUE.
- 14. THE HARDENED CONCRETE OF HORIZONTAL CONSTRUCTION JOINTS SHALL BE DAMPENED AND THEN THOROUGHLY COVERED WITH A COAT OF CEMENT GROUT OF SIMILAR PROPORTIONS TO THE MORTAR IN THE CONCRETE. THE FRESH CONCRETE SHALL BE PLACED BEFORE THE GROUT HAS ATTAINED ITS INITIAL SET.
- 15. PROVIDE GROUT FILL FOR STRUCTURE BOTTOMS AND FLUMES. GROUT SHALL BE TROWELLED OR SCREEDED TO CONFORM WITH FLOW LINES OF CONNECTED PIPING.
- 16. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTHS SHALL CONFORM WITH TABLE #1, "MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE".
- 17. CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED THAT RESULTS IN A TOTAL CONCRETE MIX IN WHICH THE PRESENCE OF CHLORIDE IONS EXCEED 0.15%, EXPRESSED AS A PERCENT BY WEIGHT OF CEMENT.
- 18. NOT USED.
- 19. ALUMINUM PIPE SHALL NOT BE USED WITH CONCRETE PUMPS.
- 20. REINFORCING BARS REQUIRED FOR PROPER SUPPORT OF PRINCIPAL REINFORCING SHALL BE DETAILED AND SUPPLIED BY THE CONTRACTOR WHETHER OR NOT THEY ARE INDICATED ON THE DRAWINGS. THE MINIMUM BAR SIZE SHALL BE #5 AND MAXIMUM SPACING SHALL BE 36" O.C. FOR THE BARS THAT NEED SUPPORT. WELDED WIRE FABRIC SHALL NOT BE USED FOR THE SUPPORT OF PRINCIPAL REINFORCING.
- 21. BONDBREAKER MATERIAL SHALL BE 30# FELT PAPER.
- 22. A CONTINUOUS CORROSION PROTECTION LINING SHALL BECOME A PERMANENT PART OF ALL INTERIOR SURFACES OF CAST-IN-PLACE CONCRETE STRUCTURES AS SHOWN OR NOTED ON THE CONTRACT DRAWINGS. THE LINER SYSTEM SHALL NOT BE APPLIED TO ANY FRPM ACCESS MANHOLE RISER PIPES OR TO CCFRPM PIPE, SEE PROJECT SPECIFICATIONS "SECTION 09820 SPRAY-APPLIED CORROSION PROTECTION COATINGS FOR CONCRETE.

#### TYPICAL REINFORCING BAR CLEARANCE TABLE

| LOCATION                                               | CLEARANC |
|--------------------------------------------------------|----------|
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3"       |
| SURFACES EXPOSED TO LIQUIDS OR EARTH                   | 2"       |
| BEAMS (LONGITUDINAL REINFORCING)                       | 2 1/2"   |
| BEAM STIRRUPS                                          | 2"       |
| COLUMNS AND PIERS (VERTICAL REINFORCING)               | 2 1/2"   |
| COLUMN AND PIER TIES                                   | 2"       |
| WALLS                                                  | 2"       |
| FRAMED SLABS (INCLUDING STAIRS)                        | 2"       |
| MAT FOUNDATIONS                                        | 2"       |

#### TABLE #1 : MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE

USE THIS TABLE FOR A615 GRADE 60-UNCOATED REINFORCING WHEN CONCRETE CLEAR COVER IS 1" OR MORE AND BAR CLEAR SPACING IS GREATER THAN OR EQUAL TO THREE (3) BAR DIAMETERS. IF CONCRETE CLEAR COVER IS LESS THAN 1". LAP AND ANCHORAGE LENGTHS SHALL BE CALCULATED PER ACI 318.

| TOP         | BARS                                                                        | OTHER BARS                                                              |                                                                                           |  |
|-------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--|
| LAP         | ANCH                                                                        | LAP                                                                     | ANCH                                                                                      |  |
| 17"         | 14"                                                                         | 14"                                                                     | 10"                                                                                       |  |
| 24"         | 18"                                                                         | 18"                                                                     | 14"                                                                                       |  |
| 28"         | 22"                                                                         | 22"                                                                     | 17"                                                                                       |  |
| 34"         | 26"                                                                         | 26"                                                                     | 20"                                                                                       |  |
| 54 <b>"</b> | 41"                                                                         | 41"                                                                     | 32"                                                                                       |  |
| 70"         | 54"                                                                         | 54"                                                                     | 41"                                                                                       |  |
| 88"         | 68"                                                                         | 68"                                                                     | 52"                                                                                       |  |
| 109"        | 84"                                                                         | 84"                                                                     | 65 <b>"</b>                                                                               |  |
| (MC)        | 102"                                                                        | 102"                                                                    | 78"                                                                                       |  |
|             | <u>TOP</u><br>17"<br>24"<br>28"<br>34"<br>54"<br>70"<br>88"<br>109"<br>(MC) | TOPBARSLAPANCH17"14"24"18"28"22"34"26"54"41"70"54"88"68"109"84"(MC)102" | TOP BARSOTHERLAPANCHLAP17"14"14"14"24"18"28"22"34"26"54"41"70"54"54"68"109"84"84"(MC)102" |  |

NOTES:

(MC) DENOTES MECHANICAL COUPLER DEVELOPING 125% OF THE BAR YIELD STRENGTH. NO OTHER SPLICE WILL BE ACCEPTED.

WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR. USE WHICHEVER DIMENSION IS LARGER.

TOP BARS SHALL BE DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE REINFORCEMENT. HORIZONTAL AND HOOP REINFORCING IN WALLS SHALL BE CONSIDERED TOP BARS.

![](_page_35_Picture_84.jpeg)

#### STRUCTURAL SOLID PRECAST CONCRETE SLABS

1. PRECAST CONCRETE WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE AND THE PRESTRESSED CONCRETE INSTITUTE CODES, EXCEPT AS MODIFIED THEREIN.

2. UNLESS NOTED OTHERWISE ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS SHALL BE 5000 PSI.

3. REINFORCING BARS SHALL BE A615 GRADE, 60 PSI YIELD STRENGTH, UNLESS NOTED OTHERWISE.

4. BEARING PADS SHOWN ON THE DRAWINGS SHALL BE 50 TO 70 DUROMETER HARDNESS NEOPRENE, UNLESS OTHERWISE NOTED.

| JNK EXTENSIOI<br>ROVEMENTS PI<br>033-100002 | N PH<br>ROJE         | HASE<br>ICT | 2   |                      |        | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMB<br>PUBLIC<br>AGE AN<br>USE ONLY | US<br>UTILITI<br>D DRAII | E S<br>NAGE |    |     |
|---------------------------------------------|----------------------|-------------|-----|----------------------|--------|-----------------------------------------------------------|----------------------------------------|--------------------------|-------------|----|-----|
| Y                                           |                      | OW          | NER |                      |        |                                                           |                                        |                          |             |    |     |
|                                             | CONTRACTOR           |             |     |                      |        |                                                           |                                        |                          |             |    |     |
|                                             | INSPECTOR            |             |     |                      |        | SCALE:                                                    | SHEET:                                 | C_1                      | (36         | of | 60) |
|                                             | AGREEMENT COMPLETED  |             |     | PLETED               |        | AS NOTED                                                  |                                        | 3-1                      | (30         | 01 | 00) |
|                                             | RPD CKD CLD CON. DR. |             | २.  | CONTRACT DRAWING NO. | RECORD | PLAN NO                                                   |                                        |                          |             |    |     |
|                                             |                      |             |     |                      |        | CC-18351                                                  | 9                                      |                          |             |    |     |

EXISTING GROUND SURFACE EL 973  $\pm$  1

![](_page_36_Picture_1.jpeg)

![](_page_36_Picture_2.jpeg)

![](_page_36_Picture_5.jpeg)

![](_page_36_Picture_6.jpeg)

€ SHAFT 1 (TBM RETRIEVAL)

24'-0" (TYP.) DIA.

- FOR SURFACE RESTORATION

SEE SHEETS R-1 AND R-2

- SUPPORT OF EXCAVATION

(SEE NOTES 1 TO 3)

- COMPACTED BACKFILL

Α

(REFER TO SHEET S-4 FOR

SHAFT INITIAL SUPPORT DETAILS)

(OR USE LDCF / LSMB UP TO

5-FT BELOW FINAL GRADE)

| EASEMENT REFERENCE |        |          | FERENCE |     | REVISIONS   |               | PLAN PREPARED BY:                                                                      |
|--------------------|--------|----------|---------|-----|-------------|---------------|----------------------------------------------------------------------------------------|
|                    | COUNTY | RECORDER | CRANTOR | NO. | DESCRIPTION | APPROVAL/DATE | <b>S</b> +                                                                             |
| CIT NO.            | VOL.   | PAGE     | GRANTOR |     |             |               |                                                                                        |
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- 1. INITIAL SUPPORT IN SOIL AND THROUGH WEATHERED ROCK FOR THE SHAFT EXCAVATION SHALL BE A SECANT PILE WALL. SHAFT EXCAVATION SHALL BE WATERTIGHT WITH GROUTING REQUIREMENTS AS SPECIFIED IN SECTION 02990 - TUNNEL AND SHAFT GROUTING.
- 2. SUPPORT OF THE EXCAVATION SYSTEMS ARE CONCEPTUALLY SHOWN. THE CONTRACTOR SHALL DESIGN THE SUPPORT OF EXCAVATION IN ACCORDANCE WITH THE REQUIREMENTS AS SHOWN AND AS SPECIFIED IN SECTION 02456 - SECANT PILE WALL CONSTRUCTION.
- 3. THE SECANT PILE TIP DEPTH/ELEVATION REQUIREMENT IS FOR GROUNDWATER CUT-OFF PURPOSES. THE CONTRACTOR MAY PROPOSE SHALLOWER TIP ELEVATION IN CONJUNCTION WITH PRE-EXCAVATION GROUTING OF THE TOP OF ROCK TO SATISFY THE MAXIMUM GROUNDWATER INFLOW LIMITS AS DEFINED IN SPECIFICATIONS, AND AS APPROVED BY THE CMT.
- 4. TYPICAL / MINIMUM DIMENSION FOR THE EXCAVATION SHOWN ARE BASED ON DESIGN AND CONSTRUCTIBILITY CONSIDERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING THE ACTUAL DIMENSION BASED ON THE MEANS AND METHODS SELECTED.
- 5. REFER TO SHEET SP-1 FOR APPROXIMATE LIMITS OF EXISTING PHASE 1 TAIL TUNNEL, AND SHEET DT-2 FOR DETAILS ON TAIL-TUNNEL CONSTRUCTION / BACKFILL.
- 6. THE CONTRACTOR SHALL DRILL AT LEAST TWO PRE-EXCAVATION PROBE HOLES FROM GROUND SURFACE (ON EITHER SIDES OF SHAFT) TO THE SPRINGLINE ELEVATION OF EXISTING TAIL TUNNEL TO CHECK FOR POTENTIAL VOIDS PREVIOUSLY LEFT BEHIND AND / OR LARGE GROUNDWATER INFLOWS.
- 7. WHEN ENCOUNTERED, THE CONTRACTOR SHALL GROUT THE VOIDS AND ZONES OF GROUNDWATER INFLOWS.
- 8. THE CONTRACTOR SHALL DESIGN TEMPORARY BULKHEAD IN THE EXISTING PHASE 1 SHAFT 4 STRUCTURE AS NECESSARY TO ISOLATE PHASE 1 FLOW FROM THE NEW PHASE 2 PIPELINE CONSTRUCTION AND DURING THEIR CONNECTION WORKS (REFER TO CMSC 901.13 REQUIREMENTS). EXISTING BULKHEAD WAS INSTALLED USING CAST-IN-PLACE CONCRETE. ASSUME 5,000 PSI, 12" THICK, STEEL REINFORCED. CONTRACTOR SHALL SUBMIT DETAILED PLAN FOR REMOVING BULKHEAD AND CONNECTING TO THE EXISTING SEWER. CONTRACTOR SHALL DESIGN THEIR TEMPORARY BULKHEAD BASED ON THE PROPOSED CONSTRUCTION SEQUENCE FOR THE FINAL CONNECTION AND COORDINATE WITH THE CITY OF COLUMBUS AND THE PHASE I OPERATION.
- 9. LOW–STRENGTH MORTAR BACKFILL (LSMB) MAY BE USED FOR SHAFT BACKFILL ABOVE EXCAVATED TUNNEL CROWN ELEVATION.

### SUGGESTED SHAFT CONSTRUCTION SEQUENCE:

- A. PRE-EXCAVATION PROBING AND GROUTING OF EXISTING PHASE 1 TAIL TUNNEL.
- B. INSTALL SECANT PILE WALL.
- C. EXCAVATE SHAFT AND INSTALL ROCK SUPPORT (CUT-OFF GROUT AS REQUIRED).
- D. REMOVE THE EXISTING TAIL TUNNEL AND SUPPORT WITHIN SHAFT FOOTPRINT.
- E. HANDMINE AND SUPPORT THE EXISTING TAIL TUNNEL IN ITS ENTIRETY ON EITHER SIDES OF SHAFT.
- F. RECEIVE AND REMOVE TBM FROM SHAFT.
- G. INSTALL FINAL LINER PIPE AND CONNECT TO THE EXISTING PHASE 1 PIPE AND BULKHEAD. (SEE NOTE 8)
- H. BACKFILL GROUT LINER PIPE INSIDE TUNNEL AND SHAFT.
- I. COMPLETE SHAFT BACKFILL AND SITE RESTORATION.

| NK EXTENSION<br>OVEMENTS PI<br>33-100002 | N PH<br>Roje | HASE<br>ICT | 2     |          | CITY OF COLUMBUS<br>DEPARTMENT OF PUBLIC UTILITIES<br>DIVISION OF SEWERAGE AND DRAINAGE<br>DIVISION USE ONLY |                         |  |
|------------------------------------------|--------------|-------------|-------|----------|--------------------------------------------------------------------------------------------------------------|-------------------------|--|
|                                          |              | OWI         | NER   |          |                                                                                                              |                         |  |
|                                          |              | CONTR       | ACTOR |          |                                                                                                              |                         |  |
|                                          |              | INSPECTOR   |       |          | SCALE:                                                                                                       | SHEET: $S_2$ (37 of 68) |  |
|                                          | AGREE        | EMENT       | CON   | IPLETED  | AS NOTED                                                                                                     | 3-2 (37 01 00)          |  |
|                                          | RPD          | CKD         | CLD   | CON. DR. | CONTRACT DRAWING NO.                                                                                         | RECORD PLAN NO.         |  |
|                                          |              |             |       |          | CC-18351                                                                                                     |                         |  |

| EXISTING GRO                                                                                                          | JND SURFACE EL 998 $\pm$ 1                |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| REMOVE SECANT PILE WALL AND<br>GUIDE BEAM (NOT SHOWN) 5' BE<br>FINAL GRADE PRIOR TO FINAL<br>RESTORATION (SEE NOTE 6) | LOW                                       |
| APPROXIMATE TOP (<br>(WEATHERED BEREA<br>(SEE GBR FIGURE C                                                            | DF ROCK<br>SANDSTONE) EL 990 ± 2<br>SS-1) |
|                                                                                                                       | A<br>S-4                                  |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       | XIMATE TIP EL. 955 ±                      |
| (MIN.                                                                                                                 | / INTO BEDFORD SHALE)                     |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       | C<br>S-4                                  |
|                                                                                                                       | ▼                                         |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
|                                                                                                                       |                                           |
| 10 FT LONG GROUT<br>AT 1'—6" AROUND                                                                                   | TED #8 SPILES<br>TUNNEL CROWN             |
|                                                                                                                       | 10° (TYP)                                 |
| لب<br>لا TUNNEL                                                                                                       |                                           |
|                                                                                                                       |                                           |

TBM MINED TUNNEL (SEE TUNNEL SUPPORT DRAWINGS)

![](_page_37_Picture_2.jpeg)

| EASEMENT REFERENCE |                 |      | FERENCE |     | REVISIONS   |                                                                                | PLAN PREPARED BY:                                               |
|--------------------|-----------------|------|---------|-----|-------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|
|                    | COUNTY RECORDER |      |         | NO. | DESCRIPTION | APPROVAL/DATE                                                                  |                                                                 |
| JIT NU.            | VOL.            | PAGE | GRANTOR |     |             |                                                                                |                                                                 |
|                    |                 |      |         |     |             |                                                                                | 1500 Lake Shore Driv<br>Columbus, Ohio 432<br>Tel. 614.486.4383 |
|                    |                 |      |         |     |             |                                                                                | www.stantec.com                                                 |
|                    |                 |      |         |     |             |                                                                                | AECC                                                            |
|                    |                 |      |         |     |             | 277 West Nationwid<br>Columbus, Ohio 432<br>Tel. 614.464.4500<br>www.AECOM.com |                                                                 |

### <u>NOTES:</u>

- 1. INITIAL SUPPORT IN SOIL AND THROUGH TOP OF ROCK FOR THE SHAFT EXCAVATION SHALL BE A SECANT PILE WALL. SHAFT EXCAVATION SHALL BE WATERTIGHT WITH GROUTING REQUIREMENTS AS SPECIFIED IN SECTION 02990 -TUNNEL AND SHAFT GROUTING.
- 2. SUPPORT OF THE EXCAVATION SYSTEMS ARE CONCEPTUALLY SHOWN. THE CONTRACTOR SHALL DESIGN THE SUPPORT OF EXCAVATION IN ACCORDANCE WITH THE REQUIREMENTS AS SHOWN AND AS SPECIFIED IN SECTION 02456 - SECANT PILE WALL CONSTRUCTION.
- 3. THE SECANT PILE TIP DEPTH/ELEVATION REQUIREMENT IS FOR GROUNDWATER CUT-OFF PURPOSES. THE CONTRACTOR MAY PROPOSE SHALLOWER TIP ELEVATION IN CONJUNCTION WITH PRE-EXCAVATION GROUTING OF THE TOP OF ROCK TO SATISFY THE MAXIMUM GROUNDWATER INFLOW LIMITS AS DEFINED IN SPECIFICATIONS, AND AS APPROVED BY THE CMT.
- 4. TYP / MIN DIMENSION FOR THE EXCAVATION SHOWN ARE BASED ON DESIGN AND CONSTRUCTIBILITY CONSIDERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SELECTING THE ACTUAL DIMENSION BASED ON THE MEANS AND METHODS SELECTED.
- 5. REFER TO SHAFT 3 DROP STRUCTURE PLANS, SECTIONS, AND DETAILS FOR BACKFILLING AND THE FINAL STRUCTURE TO BE BUILT INSIDE THE SHAFT.
- 6. REFER TO SHEETS R-5 AND R-6 FOR FINAL SURFACE RESTORATION AT SHAFT 3.

| NK EXTENSIO<br>ROVEMENTS P<br>)33-100002 | n ph<br>Roje | HASE<br>ICT         | 2 |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|------------------------------------------|--------------|---------------------|---|----------|-----------------------------------------------------------|--------------------------------------------------------------|
|                                          | OWNER        |                     |   |          |                                                           |                                                              |
|                                          | CONTRACTOR   |                     |   |          |                                                           |                                                              |
|                                          | INSPECTOR    |                     |   |          | SCALE:                                                    | SHEET: $S = 3$ (38 of 68)                                    |
|                                          | AGREE        | REEMENT COMPLETED   |   | IPLETED  | AS NOTED                                                  | 3-3 (30 01 08)                                               |
|                                          | RPD          | RPD CKD CLD CON. DR |   | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |
|                                          |              |                     |   |          | CC-18351                                                  |                                                              |

![](_page_38_Figure_0.jpeg)

![](_page_39_Figure_0.jpeg)

![](_page_39_Picture_1.jpeg)

![](_page_39_Figure_4.jpeg)

![](_page_39_Picture_5.jpeg)

| NK EXTENSIOI<br>ROVEMENTS P<br>033-100002 | N PH<br>Roje         | HASE<br>ICT | 2        |                      | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBU<br>PUBLIC<br>AGE ANE<br>use only | JS<br>UTILITIES<br>) DRAINAGE |     |     |
|-------------------------------------------|----------------------|-------------|----------|----------------------|-----------------------------------------------------------|------------------------------------------|-------------------------------|-----|-----|
| /                                         |                      | OWI         | NER      |                      |                                                           |                                          |                               |     |     |
|                                           |                      | CONTR       | ACTOR    |                      |                                                           |                                          |                               |     |     |
|                                           |                      | INSPECTOR   |          |                      | SCALE:                                                    | SHEET:                                   | S_5 (10                       | of  | 68) |
|                                           | AGREEMENT COMPLETED  |             | IPLETED  | AS NOTED             |                                                           | 3-3 (40                                  | 01                            | 00) |     |
|                                           | RPD CKD CLD CON. DR. |             | CON. DR. | CONTRACT DRAWING NO. | RECORD                                                    | PLAN NO.                                 |                               |     |     |
|                                           |                      |             |          |                      | CC-18351                                                  |                                          |                               |     |     |

![](_page_40_Figure_0.jpeg)

![](_page_40_Picture_2.jpeg)

- 1. SEE SPECIFICATION 02955 FOR EXCAVATION SUPPORT REQUIREMENTS. CONTRACTOR MAY ELECT TO BACKFILL SHAFT AND MANHOLE WITH LOW STRENGTH MORTAR BACKFILL IN SOIL SECTIONS ONLY.
- 2. DROP AND VENT PIPE MATERIAL SHALL BE FRPM PER SPECIFICATION 02955.
- 3. FIELD CUT 72" FRPM TUNNEL PIPE AND BOND PER MANUFACTURER'S RECOMMENDATION TO 18" DROP PIPE. CUTS SHOULD BE MINIMUM 18" FROM ALL PIPE JOINTS.

ALTERNATIVELY. INSTALL MANHOLE TEE-BASE WITH WRAPPED JOINTS.

- 4. APPLY SPRAY-APPLIED CORROSION PROTECTION AS SPECIFIED BY SECTION 09820 ON ALL EXPOSED CONCRETE SURFACES INSIDE THE STRUCTURE. CORROSION PROTECTION SURFACE SHALL BE FLUSH WITH I.D. OF PIPE LINER.
- 5. WATERSTOP SHALL BE INJECTION HOSE SYSTEM BY SIKA-FUKO, OR SELF-SEALING MASTIC BY SIKA-LOCKSTOP, OR APPROVED EQUAL.
- 6. APPLY SPRAY-APPLIED CORROSION PROTECTION AS SPECIFIED BY SECTION 09820 ON INTERIOR OF PRECAST CONCRETE MANHOLE.

![](_page_40_Picture_10.jpeg)

\*ISOMETRIC VIEW FOR ILLUSTRATIVE PURPOSES ONLY – STRUCTURAL PLANS AND SECTIONS SHALL GOVERN IN CASE OF ANY DISCREPANCIES.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

| JJJ = 100002 |            |      |           |          |                      |        |         |    |     |     |
|--------------|------------|------|-----------|----------|----------------------|--------|---------|----|-----|-----|
| /            |            | OWI  | NER       |          |                      |        |         |    |     |     |
|              | CONTRACTOR |      |           |          |                      |        |         |    |     |     |
|              | INSPECTOR  |      |           | SCALE:   | SHEET:               | 5-6    | (41     | of | 68) |     |
|              | AGREE      | MENT | COMPLETED |          | AS NOTED             |        | 5 0     |    |     | 00) |
|              | RPD        | CKD  | CLD       | CON. DR. | CONTRACT DRAWING NO. | RECORD | PLAN NO | •  |     |     |
|              |            |      |           |          | CC-18351             |        |         |    |     |     |

![](_page_41_Figure_0.jpeg)

<u>GENERAL NOTES:</u>

- 1. GRATE AND LADDER MATERIAL SHALL BE DELIVERED TO THE PROJECT ON AN AS-NEEDED BASIS AND SHALL BE STORED AND PROTECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2. PERFORM ALL NECESSARY COORDINATION WITH THE SHAFT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LADDER INSTALLATION TO ASSURE THAT GRATES AND LADDERS WILL FIT NEATLY.

**GRATING NOTES:** 

- 1. GRATES SHALL BE MANUFACTURED BY STRONGWELL CORPORATION, FIBERGRATE COMPOSITE STRUCTURES, ACCESS INDUSTRIAL, OR APPROVED EQUAL.
- 2. GRATING SHALL HAVE 2-INCH BEARING BARS SPACED 2 INCHES ON CENTER. RESINS SHALL BE FIRE RETARDANT VINYL ESTER MEETING THE REQUIREMENTS OF CLASS 1 RATING OF 25 OR LESS PER ASTM E-84 AND MEETING THE SELF-EXTINGUISHING REQUIREMENTS OF ASTM-635. COLOR SHALL BE YELLOW. RESIN SHALL BE UV INHIBITED AND THE COMPOSITE SHALL INCLUDE A VEIL ON ALL EXPOSED SURFACES. ASSEMBLED PANELS SHALL HAVE A PERMANENTLY BONDED GRIT, BAKED EPOXY, ANTI-SKID SURFACE.
- 3. ALL CLIPS AND ASSOCIATED HARDWARE SHALL BE 316 STAINLESS STEEL AND BE COMPATIBLE WITH THE SUPPLIED GRATING, BE CORROSION RESISTANT FOR THE EXPECTED CONDITIONS, AND BE EASILY REMOVABLE IN THE CONDITIONS ANTICIPATED.
- 4. HINGES SHALL BE 316 STAINLESS STEEL AND SHALL BE FIRMLY ATTACHED TO THE GRATES USING SCREWS.
- 5. FABRICATION: RESEAL ALL CUT EDGES WITH A COMPATIBLE RESIN SYSTEM. GRATES SHALL BE PROTECTED DURING SHIPPING TO PREVENT DAMAGE.

### LADDER NOTES:

- 1. LADDER SHALL BE ALL FIBERGLASS, WITH 1-3/4" x 4" RAILS, D-SHAPED RUNGS WITH TREADS TO PROVIDE SLIPPAGE RESISTANCE, AND TWO-WAY STEEL SPIKE AND SAFETY SHOES.
- LADDER SHALL BE 16 FEET IN LENGTH AND 19-1/4" IN WIDTH WITH A MINIMUM LOAD RATING OF 300 POUNDS.
- 3. INSTALL LADDER BRACKETS AND HOOKS SO THAT LADDER CAN BE EASILY LOWERED AND RAISED WITHIN THE TUNNEL.
- 4. PROVIDE HOOKS FOR HANGING THE LADDER WITHIN THE SHAFT WHEN NOT IN USE.
- 5. LADDER SHALL BE INSTALLED FOR PERMANENT USE INSIDE SHAFT, WITH THE ABILITY TO RETRACT IN AND OUT OF THE TUNNEL. PROVIDE BRACKETS AT THE TOP OF THE TUNNEL TO PLACE THE LADDER WITHIN WHEN LOWERING THE LADDER TO THE TUNNEL. BRACKETS SHALL BE SET TO PROVIDE ADEQUATE TOE DISTANCE FOR THE LADDER.
- 6. BRACKETS AND HOOKS SHALL BE 316 STAINLESS STEEL AND FABRICATED TO BE COMPATIBLE WITH THE LADDER. WHERE THE BRACKETS ARE ATTACHED TO FRPM PIPE, ALL NECESSARY REINFORCEMENT OF THE PIPE SHALL BE PROVIDED TO ASSURE THAT THE BRACKETS ARE FIRMLY ATTACHED. BRACKETS SHALL BE DESIGNED FOR A MINIMUM 250 POUNDS OF VERTICAL LOAD WITH A SAFETY FACTOR OF TWO (2).

### HATCH NOTES:

- 1. HATCH SHALL BE GALVANIZED STEEL AND/OR ALUMINUM MATERIAL WITH STAINLESS STEEL HARDWARE.
- 2. HATCH COVER SHALL BE DIAMOND PLATE REINFORCED DESIGNED FOR INCIDENTAL 16,000 LB WHEEL LOADS.
- 3. HATCH SHALL HAVE LIFT ASSIST THAT REQUIRES NO MORE THAN 35 LBS OF FORCE TO OPEN OR CLOSE FROM ANY POSITION.
- 4. HATCH COVER SHALL HAVE A HOLD-OPEN ARM WITH ABILITY TO RELEASE DOOR FOR FULL 180 DEGREE OPEN POSITION.
- 5. HATCH SHALL CONTAIN SLAM LOCK AND MINIMUM TWO (2) LIFT HANDLES FLUSH WITH TOP OF COVER.
- 6. HATCH AND FRAME SHALL BE MODEL UEZD BY U.S.F. FABRICATION INC., OR APPROVED EQUAL.

| IK EXTENSION<br>OVEMENTS PI<br>33-100002 | N PH<br>Roje | IASE<br>ICT     | 2   |          | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|------------------------------------------|--------------|-----------------|-----|----------|-------------------------------------------------------------|--------------------------------------------------------------|
|                                          | OWNER        |                 |     |          |                                                             |                                                              |
|                                          | CONTRACTOR   |                 |     |          |                                                             |                                                              |
|                                          | INSPECTOR    |                 |     |          | SCALE:                                                      | SHEET: $S = 7 (42 \text{ of } 68)$                           |
|                                          | AGREE        | EMENT COMPLETED |     | IPLETED  | AS NOTED                                                    | 3-7 (42 01 00)                                               |
|                                          | RPD          | CKD             | CLD | CON. DR. | CONTRACT DRAWING NO.                                        | RECORD PLAN NO.                                              |
|                                          |              |                 |     | CC-18351 |                                                             |                                                              |

|          | EA     | SEMENT RE | FERENCE  |     | REVISIONS   |               | PLAN PREPARED BY:                                     |                               | PROJECT TITLE:    |
|----------|--------|-----------|----------|-----|-------------|---------------|-------------------------------------------------------|-------------------------------|-------------------|
|          | COUNTY | RECORDER  | 00.11700 | NO. | DESCRIPTION | APPROVAL/DATE | Stantoc                                               |                               | BIG WALNUT TRUN   |
| CITY NO. | VOL.   | PAGE      | GRANTOR  |     |             |               |                                                       |                               | CAPITAL IMPRO     |
|          |        |           |          |     |             |               | Columbus, Ohio 43204<br>Tel. 614.486.4383             | SHAFT 24 DROP STRUCTURE PLANS | DIVISION USE ONLY |
|          |        |           |          |     |             |               | www.stantec.com                                       | SHALL ZA DIVOL SHVOCIONE LANS |                   |
|          |        |           |          |     |             |               | AECOM                                                 |                               |                   |
|          |        |           |          |     |             |               | 277 West Nationwide Boulevard<br>Columbus, Ohio 43215 |                               |                   |
|          |        |           |          |     |             |               | Tel. 614.464.4500<br>www.AECOM.com                    |                               |                   |

![](_page_42_Figure_1.jpeg)

Ν

![](_page_42_Figure_2.jpeg)

![](_page_42_Figure_3.jpeg)

![](_page_42_Figure_4.jpeg)

# NOTES:

 EXISTING 24" DIA. PIPE STUB IS LEFT IN PLACE OVER THE TUNNEL BY OTHERS. CONTRACTOR TO VERIFY AND OBTAIN CC-18547 RECORD PLANS WITH OWNER PRIOR TO DRILLING SHAFT. CONTRACTOR SHALL INSTALL NEW PIPE AS NECESSARY TO MAKE WATERTIGHT CONNECTION TO EXISTING 24" SEWER.

![](_page_42_Figure_7.jpeg)

| NK EXTENSIOI<br>ROVEMENTS PI<br>033—100002 | N PH<br>ROJE    | HASE<br>ICT | 2        |                      | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|--------------------------------------------|-----------------|-------------|----------|----------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| /                                          |                 | OWI         | NER      |                      |                                                             |                                                              |
|                                            |                 | CONTR       | ACTOR    |                      |                                                             |                                                              |
|                                            |                 | INSPECTOR   |          |                      | SCALE:                                                      | SHEET: $S = 8$ (13 of 68)                                    |
|                                            | AGREEMENT C     |             | CON      | <b>IPLETED</b>       | AS NOTED                                                    | 3-8 (43 81 88)                                               |
|                                            | RPD CKD CLD CON |             | CON. DR. | CONTRACT DRAWING NO. | RECORD PLAN NO.                                             |                                                              |
|                                            |                 |             |          |                      | CC-18351                                                    |                                                              |

![](_page_43_Figure_0.jpeg)

![](_page_44_Figure_0.jpeg)

|          | EA     | SEMENT REFI | ERENCE  |     | REVISIONS   |               | PLAN PREPARED BY:                                                             |                        | PROJECT TITLE:     |
|----------|--------|-------------|---------|-----|-------------|---------------|-------------------------------------------------------------------------------|------------------------|--------------------|
|          | COUNTY | RECORDER    |         | NO. | DESCRIPTION | APPROVAL/DATE | <b>Stantoc</b>                                                                |                        | BIG WALNUT TRU     |
| CITY NO. | VOL.   | PAGE        | GRANTOR |     |             |               | Juliec                                                                        |                        | CAPITAL IMP<br>650 |
|          |        |             |         |     |             |               | 1500 Lake Shore Drive, Suite 100<br>Columbus, Ohio 43204<br>Tel. 614.486.4383 | SHAFT 3 DROP STRUCTURE | DIVISION USE ONL   |
|          |        |             |         |     |             |               | www.stantec.com                                                               | PLANS                  |                    |
|          |        |             |         |     |             |               | AECOM                                                                         |                        |                    |
|          |        |             |         |     |             |               | 2// West Nationwide Boulevard<br>Columbus, Ohio 43215<br>Tel 614 464 4500     |                        |                    |
|          |        |             |         |     |             |               | www.AECOM.com                                                                 |                        |                    |

![](_page_45_Figure_0.jpeg)

![](_page_46_Figure_0.jpeg)

![](_page_47_Figure_0.jpeg)

| EPARED BY:                                                                          |                        | PROJECT TITLE:                                              |
|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------|
| 1500 Lake Shore Drive, Suite 100<br>Columbus, Ohio 43204<br>Tel. 614.486.4383       | SHAFT 3 DROP STRUCTURE | BIG WALNUT TRU<br>CAPITAL IMPE<br>6500<br>DIVISION USE ONLY |
| www.stantec.com                                                                     | DETAILS                |                                                             |
| AECOM<br>277 West Nationwide Boulevard<br>Columbus, Ohio 43215<br>Tel. 614,464,4500 |                        |                                                             |
| www.AECOM.com                                                                       |                        |                                                             |

![](_page_47_Picture_3.jpeg)

![](_page_47_Figure_4.jpeg)

| NK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>033–100002 |           |       |        |                | CITY OF O<br>DEPARTMENT OF<br>DIVISION OF SEWER | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |  |  |
|---------------------------------------------------------|-----------|-------|--------|----------------|-------------------------------------------------|--------------------------------------------------------------|--|--|
| (                                                       |           | OW    | NER    |                |                                                 |                                                              |  |  |
|                                                         |           | CONTR | RACTOR |                |                                                 |                                                              |  |  |
|                                                         | INSPECTOR |       |        |                | SCALE:                                          | SHEET: $S = 13$ (18 of 68)                                   |  |  |
|                                                         | AGREEMENT |       | CON    | <b>IPLETED</b> | AS NOTED                                        | 3-13 (48 01 08)                                              |  |  |
|                                                         | RPD CKD   |       | CLD    | CON. DR.       | CONTRACT DRAWING NO.                            | RECORD PLAN NO.                                              |  |  |
|                                                         |           |       |        | CC-18351       |                                                 |                                                              |  |  |

![](_page_48_Figure_0.jpeg)

Stantec Consulting Services Inc. 1500 Lake Shore Drive, Suite 100 Columbus OH 43204-3800 Tel:614.486.4383 www.stantec.com

# Stantec

# GEOTECHNICAL INSTRUMENTATION NOTES AND DETAILS

CONVERGENCE MARKER SET (CMS)

| PROJECT TITLE:                          |
|-----------------------------------------|
| BIG WALNUT TRUN<br>CAPITAL IMPR<br>6500 |
| DIVISION USE ONLY                       |
|                                         |
|                                         |
|                                         |
|                                         |
|                                         |

- TOP OF ROD ROUNDED AND PUNCHMARKED

![](_page_48_Figure_11.jpeg)

![](_page_48_Figure_12.jpeg)

- VENTED TOP CAP

SURFACE ROADWAY ----

# <u>LEGEND</u>

|                    | (OW) OBSERVATION WELL                           |
|--------------------|-------------------------------------------------|
|                    | (COW) CONTRACTOR OBSERVATION WELL               |
| $\bigtriangleup$   | (SMP) SURFACE/STRUCTURE MONITORING POINT        |
|                    | (IC) INCLINOMETERS                              |
|                    | (SSSI) SUBSURFACE SHALLOW SETTLEMENT INDICATORS |
|                    | (CMS) CONVERGENCE MARKER SET                    |
| $\mathbf{\bullet}$ | (UMP) UTILITY MONITORING POINT                  |

NOTES:

1. SURFACE MONITORING POINTS SHALL BE USED ON THE PAVED GROUND SURFACES. SURFACE SETTLEMENT MARKERS SHALL BE USED IN LIEU OF SURFACE MONITORING POINTS ON UNPAVED SURFACES.

2. MONITORING POINTS ARE ALSO LOCATED AT SENSITIVE AREAS ALONG THE TUNNEL ALIGNMENT INCLUDING ROADWAY CROSSINGS, AND ELECTRICAL TRANSMISSION FACILITIES.

3. UTILITY MONITORING POINTS (UMP) ARE INSTALLED AT MAJOR UTILITY LINES AS DIRECTED.

4. INSTALL CONVERGENCE MARKER SETS (CMS) AT UPPER, MIDDLE, AND LOW ELEVATIONS OF THE SHAFT EXCAVATIONS.

5. INSTALL CONVERGENCE MARKER SETS (CMS) AT 50-FEET INTERVALS THROUGH THE TAIL TUNNEL & STARTER TUNNEL.

6. CONTRACTOR SHALL MAINTAIN AND MONITOR EXISTING MONITORING WELLS SHOWN ON THE CONTRACT DRAWINGS AS SPECIFIED. IF ANY OF THE EXISTING MONITORING WELLS AROUND SHAFT LOCATIONS IS NOT FUNCTIONAL OR DAMAGED, CONTRACTOR SHALL REPLACE THE WELL WITH AN EQUIVALENT FUNCTIONAL WELL AT NOT COST TO THE OWNER.

7. AFTER COMPLETION OF WORK, THE CONTRACTOR SHALL REMOVE GEOTECHNICAL INSTRUMENTATION PER THE REQUIREMENTS OF SPECIFICATION SECTION 02970 -GEOTECHNICAL INSTRUMENTATION AND MONITORING SYSTEM.

![](_page_48_Figure_24.jpeg)

| JNK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>033-100002 |             |                     |     |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>RAGE AND DRAINAGE<br>USE ONLY |  |  |
|----------------------------------------------------------|-------------|---------------------|-----|----------|-----------------------------------------------------------|---------------------------------------------------------------|--|--|
| Y                                                        |             | OW                  | NER |          |                                                           |                                                               |  |  |
|                                                          | CONTRACTOR  |                     |     |          |                                                           |                                                               |  |  |
|                                                          | INSPECTOR   |                     |     |          | SCALE:                                                    | SHEET: $CI = 1$ (49 of 68)                                    |  |  |
|                                                          | AGREE       | AGREEMENT COMPLETED |     | IPLETED  | N/A                                                       | GI-1 (49 01 00)                                               |  |  |
|                                                          | RPD CKD CLI |                     | CLD | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                               |  |  |
|                                                          |             |                     |     | CC-18351 |                                                           |                                                               |  |  |

| (W)-W- |  |  |
|--------|--|--|
|--------|--|--|

| OBSERVATION WELLS |        |         |        |                  |  |  |  |  |
|-------------------|--------|---------|--------|------------------|--|--|--|--|
| DESIGNATION       | STATUS | STATION | OFFSET | APPROX<br>DEPTH* |  |  |  |  |
| OW-1              | EX     | 0+40    | 60 RT  |                  |  |  |  |  |
| OW-2              | EX     | 0+44    | 101 RT |                  |  |  |  |  |
| OW-3              | EX     | 1+12    | 9 RT   |                  |  |  |  |  |
| OW-4              | EX     | 0+88    | 10 RT  |                  |  |  |  |  |
| OW-8              | EX     | 68+14   | 2 RT   |                  |  |  |  |  |
| OW-10             | EX     | 123+10  | 10 RT  |                  |  |  |  |  |
| OW-11             | EX     | 122+79  | 30 LT  |                  |  |  |  |  |
| OW-12             | EX     | 124+25  | 47 LT  |                  |  |  |  |  |
| COW-1             | PROP   | 35+66   | 15 LT  | 40               |  |  |  |  |
| COW-2             | PROP   | 58+07   | 50 RT  | 35               |  |  |  |  |

\*THE OBSERVATION WELL SHALL BE IN THE PRIMARY AQUIFER. FOR PROPOSED OBSERVATION WELLS. ACTUAL DEPTH MAY VARY.

|             | $\bigcirc$ |         |
|-------------|------------|---------|
| UTILITY MC  | NITORING   | POINTS  |
| DESIGNATION | STATION    | UTILITY |
| UMP-1       | 122+63     | 4" GAS  |

| <b>▲</b>    |          |
|-------------|----------|
| INCLINOMETE | R CASING |
| DESIGNATION | STATION  |
| IC-1        | SHAFT 1  |
| IC-2        | SHAFT 3  |

| $\bigtriangleup$          |         |        |             |  |  |  |  |  |  |
|---------------------------|---------|--------|-------------|--|--|--|--|--|--|
| SURFACE MONITORING POINTS |         |        |             |  |  |  |  |  |  |
| DESIGNATION               | STATION | OFFSET | NOTES       |  |  |  |  |  |  |
| SMP-1                     | -0+14   | 0      | SHAFT COVER |  |  |  |  |  |  |
| SMP-2                     | 3+39    | 2 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-3                     | 6+42    | 2 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-4                     | 9+25    | 2 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-5                     | 13+62   | 0      | CATCH BASIN |  |  |  |  |  |  |
| SMP-6                     | 17+32   | 2 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-7                     | 21+24   | 3 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-8                     | 23+48   | 3 RT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-9                     | 32+75   | 0      | ROADWAY     |  |  |  |  |  |  |
| SMP-10                    | 37+48   | 0      | SIDEWALK    |  |  |  |  |  |  |
| SMP-11                    | 38+61   | 0      | SIDEWALK    |  |  |  |  |  |  |
| SMP-12                    | 45+26   | 8 RT   | DRIVEWAY    |  |  |  |  |  |  |
| SMP-13                    | 50+31   | 0      | DRIVEWAY    |  |  |  |  |  |  |
| SMP-14                    | 53+11   | 0      | ROADWAY     |  |  |  |  |  |  |
| SMP-15                    | 63+95   | 0      | ROADWAY     |  |  |  |  |  |  |
| SMP-16                    | 64+56   | 5 LT   | CATCH BASIN |  |  |  |  |  |  |
| SMP-17                    | 66+42   | 86 RT  | CATCH BASIN |  |  |  |  |  |  |
| SMP-18                    | 120+11  | 18 LT  | TOWER BASE  |  |  |  |  |  |  |
| SMP-19                    | 122+31  | 0      | ROADWAY     |  |  |  |  |  |  |

| SUBSURFACE  | SHALLOW S  | ETTLEMENT |
|-------------|------------|-----------|
|             | INDICATORS |           |
| DESIGNATION | STATION    | OFFSET    |
| SSSI-1      | 0+64       | 14 LT     |
| SSSI-2      | 35+04      | 104 LT    |
| SSSI-3      | 56+40      | 0         |
| SSSI-4      | 57+40      | 13 LT     |
| SSSI-5      | 61+18      | 0         |
| SSSI-6      | 123+35     | 30 LT     |
| SSSI-7      | 123+78     | 78 RT     |

| EASEMENT REFERENCE |                   |         |     | REVISIONS   |  |               | PLAN PREPARED BY:                                             |
|--------------------|-------------------|---------|-----|-------------|--|---------------|---------------------------------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER | GRANTOR | NO. | DESCRIPTION |  | APPROVAL/DATE |                                                               |
|                    |                   |         |     |             |  |               |                                                               |
|                    |                   |         |     |             |  |               |                                                               |
|                    |                   |         |     |             |  |               | Stantec Consulting Service<br>1500 Lake Shore Drive, Suite    |
|                    |                   |         |     |             |  |               | Columbus OH 43204-3800<br>Tel:614.486.4383<br>www.stantec.com |

|   | DES   |
|---|-------|
|   |       |
|   | CMS-2 |
|   | CMS-2 |
|   | CMS-2 |
|   |       |
|   |       |
|   |       |
| 1 |       |
|   | CMS-7 |

| CONVERGENCE MONITORING |         |                          |  |  |  |  |  |
|------------------------|---------|--------------------------|--|--|--|--|--|
| POINTS                 |         |                          |  |  |  |  |  |
| DESIGNATION            | STATION | ELEV/<br>NOTES           |  |  |  |  |  |
| CMS-1                  | 0+18    |                          |  |  |  |  |  |
| CMS-2.1 (SHAFT 1)      | 0+37.5  | 883                      |  |  |  |  |  |
| CMS-2.2 (SHAFT 1)      | 0+37.5  | 855                      |  |  |  |  |  |
| CMS-2.3 (SHAFT 1)      | 0+37.5  | 825                      |  |  |  |  |  |
| CMS-3                  | 4+00    |                          |  |  |  |  |  |
| CMS-4                  | 65+00   |                          |  |  |  |  |  |
| CMS-5                  | 67+00   |                          |  |  |  |  |  |
| CMS-6                  | 69+00   |                          |  |  |  |  |  |
| CMS-7.1 (SHAFT 3)      | 123+51  | 948                      |  |  |  |  |  |
| CMS-7.2 (SHAFT 3)      | 123+51  | 895                      |  |  |  |  |  |
| CMS-7.3 (SHAFT 3)      | 123+51  | 838                      |  |  |  |  |  |
| CMS-8                  | 124+00  |                          |  |  |  |  |  |
| CMS-9                  | 124+50  |                          |  |  |  |  |  |
| CMS-10                 | 125+00  | 50' ALONG TAIL           |  |  |  |  |  |
| CMS-11                 | 125+50  | TUNNEL (AS<br>NECESSARY) |  |  |  |  |  |
| CMS-12                 | 126+00  | ······                   |  |  |  |  |  |
| CMS-13                 | 126+50  |                          |  |  |  |  |  |

| tantoc |                                                          | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|--------|----------------------------------------------------------|--------------------------------------------------------|
| inc.   | GEOTECHNICAL INSTRUMENTATION<br>INSTRUMENTATION SCHEDULE | DIVISION USE ONL                                       |

| UNK EXTENSION PHASE 2<br>PROVEMENTS PROJECT<br>0033-100002 |           |       |        |                | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |  |  |  |
|------------------------------------------------------------|-----------|-------|--------|----------------|-----------------------------------------------------------|--------------------------------------------------------------|--|--|--|
| ILY                                                        |           | OW    | NER    |                |                                                           |                                                              |  |  |  |
|                                                            |           | CONTR | RACTOR |                |                                                           |                                                              |  |  |  |
|                                                            | INSPECTOR |       |        |                | SCALE:                                                    | SHEET: $CI_2$ (50 of 68)                                     |  |  |  |
|                                                            | AGREE     | EMENT | CON    | <b>IPLETED</b> | N/A                                                       | GI-2 (50 01 08)                                              |  |  |  |
|                                                            | RPD       | CKD   | CLD    | CON. DR.       | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |  |  |  |
|                                                            |           |       |        |                | CC-18351                                                  |                                                              |  |  |  |

![](_page_50_Figure_0.jpeg)

| EASEMENT REF               | ERENCE  |     | REVISIONS   |               | PLAN PREPARED BY:                                                                                                                      |                                                       | PROJECT TITLE:                       |
|----------------------------|---------|-----|-------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------|
| CITY NO. INSTRUMENT NUMBER | GRANTOR | NO. | DESCRIPTION | APPROVAL/DATE |                                                                                                                                        |                                                       | BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|                            |         |     |             |               | <b>Stantec</b>                                                                                                                         | GEOTECHNICAL INSTRUMENTATION<br>STA 0+00 TO STA 62+00 | DIVISION USE ONL                     |
|                            |         |     |             |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |                                                       |                                      |
|                            |         |     |             |               |                                                                                                                                        |                                                       |                                      |

![](_page_51_Figure_0.jpeg)

WBARCA 8/5/2021 9:14 AM PLOTTED: 1/7/2022 10:43 AM FILE: U:\173409058\\_buzzsaw\01 CAD\02 SHEETS

Stantec Consulting Services I 1500 Lake Shore Drive, Suite Columbus OH 43204-3800 Tel:614.486.4383 www.stantec.com

| <b>Stantec</b><br>e 100 | GEOTECHNICAL INSTRUMENTATION<br>STA 62+00 TO STA 123+51 | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMP<br>650<br>DIVISION USE ON |
|-------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|
|                         |                                                         |                                                                           |

| 9+00 90+00                                   | 91+00 92+00                           | 93+00 94+00 95-                                           | MATCH LINE STA. 95+50, THIS SHEET                            |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
|                                              |                                       |                                                           | +                                                            |
| -00 _120+00                                  |                                       | OW-11<br>                                                 |                                                              |
| ь<br>                                        | SMP-19<br>UMP-1<br>FRANKLIN<br>COUNTY | CMS-XX<br>(INSTALL EVE<br>OF TAIL TUNI<br>SSSI-7<br>OW-10 | RY 50'<br>NEL)                                               |
|                                              | OHT                                   |                                                           |                                                              |
|                                              |                                       |                                                           |                                                              |
| UNK EXTENSIOI<br>PROVEMENTS P<br>0033-100002 | N PHASE 2<br>ROJECT                   | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
| ILY                                          | OWNER<br>CONTRACTOR                   |                                                           |                                                              |
|                                              | AGREEMENT COMPLETED                   | SCALE: 1"=100'                                            | SHEET: GI-4 (52 of 68)                                       |
|                                              |                                       | CC-18351                                                  | RECORD PLAN NO.                                              |
|                                              |                                       |                                                           |                                                              |

![](_page_52_Figure_0.jpeg)

![](_page_53_Figure_0.jpeg)

| PROPC    | OSED SUBG   | RADE POIN    | ΓTABLE    |
|----------|-------------|--------------|-----------|
| POINT NO | NORTHING    | EASTING      | ELEVATION |
| 1        | 765290.8252 | 1867696.1237 | 969.35    |
| 2        | 765286.3353 | 1867780.8368 | 969.57    |
| 3        | 765310.4810 | 1867734.3760 | 969.50    |
| 4        | 765305.6889 | 1867824.7860 | 969.73    |
| 9        | 765275.1020 | 1867799.0320 | 969.62    |
| 10       | 765273.7860 | 1867823.0370 | 969.68    |

| EASEMENT REFERENCE |        |          | FERENCE |     | REVISIONS   |               |   | PREPARED BY:                                       |
|--------------------|--------|----------|---------|-----|-------------|---------------|---|----------------------------------------------------|
| CITY NO. VC        | COUNTY | RECORDER | CRANTOR | NO. | DESCRIPTION | APPROVAL/DATE |   |                                                    |
|                    | VOL.   | PAGE     | GRANIOR |     |             |               |   | 1500 Lake Shore                                    |
|                    |        |          |         |     |             |               |   | Columbus, Ohic<br>Tel. 614.486.4<br>www.stantec.cu |
|                    |        |          |         |     |             |               | - | Evans, Mechw<br>Engineers = Su                     |
|                    |        |          |         |     |             |               |   | 5500 New Alban<br>Phone: 614.775.                  |

![](_page_53_Picture_8.jpeg)

![](_page_54_Figure_0.jpeg)

| EASEMENT REFERENCE |                 |      | FERENCE |     | REVISIONS   |               | PLAN PREPARED        | BY:                                                         |
|--------------------|-----------------|------|---------|-----|-------------|---------------|----------------------|-------------------------------------------------------------|
|                    | COUNTY RECORDER |      |         | NO. | DESCRIPTION | APPROVAL/DATE | (                    |                                                             |
|                    | VOL.            | PAGE | GRANTOR |     |             |               | 15                   | یں<br>00 Lake Shore                                         |
|                    |                 |      |         |     |             |               | Cc<br>Tel<br>wv      | olumbus, Ohio<br>. 614.486.4<br>vw.stantec.co               |
|                    |                 |      |         |     |             |               | Ev<br>En<br>S5<br>Ph | ans, Mechw<br>gineers - Sur<br>00 New Alba<br>one: 614.775. |

![](_page_54_Figure_4.jpeg)

![](_page_54_Picture_5.jpeg)

 $\int^{\text{SHEET:}} R-3$  (55 of 68) RPD CKD CLD CON. DR. CONTRACT DRAWING NO. RECORD PLAN NO. CC-18351

![](_page_55_Figure_0.jpeg)

| EASEMENT REFERENCE |        |          | FERENCE |     | REVISIONS   |               | PLAN PREPARED BY:                                                        |
|--------------------|--------|----------|---------|-----|-------------|---------------|--------------------------------------------------------------------------|
| CITY NO.           | COUNTY | RECORDER |         | NO. | DESCRIPTION | APPROVAL/DATE |                                                                          |
|                    | VOL.   | PAGE     | GRANIOR |     |             |               | 1500 Lake Shore                                                          |
|                    |        |          |         |     |             |               | Columbus, Ohio<br>Tel. 614.486.43<br>www.stantec.com                     |
|                    |        |          |         |     |             |               |                                                                          |
|                    |        |          |         |     |             |               | EN                                                                       |
|                    |        |          |         |     |             |               | Evans, Mechwa<br>Engineers - Surv<br>5500 New Albam<br>Phone: 614.775.43 |

|                                                                                                      | ) — OHE —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                          |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|                                                                                                      | WALNUT STREET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |                                          |
|                                                                                                      | (FCEO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9812<br>EX PULL BOX                                                                                                    | 30 M M 625                               |
| TEMPORARY CONSTRUC<br>PER SPEC 0                                                                     | TION FENCE $U_{GT}980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980980$ |                                                                                                                        | Z J 72" BIG WALNUT TRUNK SEWER           |
| 22 BOLLARD<br>CHAIN GATE                                                                             | 1000 X X X<br>50+00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |                                          |
| 47<br>18.<br>24<br>24<br>24<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23<br>23              | EX. CITY OF COLUMBUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | R\W<br>R\W<br>Q                                                                                                        |                                          |
| 2-1<br>CESS SHAFT 2-<br>STA 57+00.00                                                                 | 50'x120' SEWER EASEMENT 20' PERI<br>I.N. 200401090006908 EASEMEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AANENT SUBTERRANEAN                                                                                                    |                                          |
|                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |                                          |
|                                                                                                      | 985                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EX GRADING<br>FOR WALNUT<br>WOODS<br>EX R/W                                                                            | 983                                      |
| M/I HOMES                                                                                            | 985<br>DIVERSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SWALE (TBR)                                                                                                            |                                          |
|                                                                                                      | -986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EX. CITY OF COLUMBUS<br>200'x210' TEMPORARY EASE<br>I.N. 200401090006908<br>TEMPORARY CONSTRUCT<br>SOUND BLANKET PER S | MENT<br>ON FENCE WITH<br>PEC 02825 (TBR) |
| 987                                                                                                  | 0-0-0-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Shaft Work Limits                                                                                                      |                                          |
| EX. CITY OF COLUMBUS<br>200'x210' TEMPORARY EASEMENT<br>I.N. 200401090006908<br>SHAFT WORK LIMITS    | 989<br>EX R/W<br>990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 988<br>EX SIDEWALK                                                                                                     | -987                                     |
| ETBACK<br>TEMPORARY CONSTRUCTION FE<br>SOUND BLANKET PER SPEC 0<br>EX GRADING<br>FOR WALNUT<br>WOODS | ENCE WITH<br>2825 (TBR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EX ELECTRIC<br>EX LIGHT POLE                                                                                           | 988                                      |
|                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |                                          |

![](_page_55_Picture_4.jpeg)

# <u>NOTES</u>

![](_page_55_Picture_6.jpeg)

![](_page_55_Picture_7.jpeg)

- 2. EXISTING CONTOURS SHOWN ON THIS SHEET REFLECT THE ANTICIPATED CONDITION RESULTANT FROM CONSTRUCTION ACTIVITIES. SEE THE SITE PLAN (SP) SHEETS FOR ORIGINAL CONDITIONS AND CONSTRUCTION ACTIVITIES.
- 3. AUTHORIZATION FOR PERMANENT DRIVE ACCESS IN FRANKLIN COUNTY CONTROLLED RIGHT-OF-WAY IS BY PERMIT ONLY AND IS BEING GRANTED TO THE CITY OF COLUMBUS SOLELY FOR PURPOSES RELATED TO THE SANITARY SEWER. ALL OTHER USERS MUST REQUEST A SEPARATE PERMIT OR EXPRESSED WRITTEN AUTHORIZATION FROM THE DELAWARE COUNTY ENGINEER'S OFFICE PRIOR TO UTILIZING ACCESS. PERMITS ARE ISSUED AND MAINTAINED FOR RECORD PURPOSES BY THE DELAWARE COUNTY ENGINEER'S OFFICE.
- 4. TOPSOIL HAULED OFFSITE SHALL BE REPLACED BY THE CONTRACTOR.

# <u>LEGEND</u>

PROPOSED CONCRETE PAVERS

![](_page_55_Figure_13.jpeg)

PROPOSED CONCRETE APRON PER DPS (8" THICK)

\_\_\_\_

PROPOSED FULL DEPTH PAVEMENT REPAIR SEE SHEET G-13

| PROPOSED POINT TABLE |             |              |           |  |  |  |  |  |  |  |
|----------------------|-------------|--------------|-----------|--|--|--|--|--|--|--|
| POINT NO             | NORTHING    | EASTING      | ELEVATION |  |  |  |  |  |  |  |
| 20                   | 770477.9955 | 1869414.5373 | 983.01    |  |  |  |  |  |  |  |
| 21                   | 770472.4652 | 1869408.2008 | 983.11    |  |  |  |  |  |  |  |
| 22                   | 770456.3270 | 1869407.0626 | 983.35    |  |  |  |  |  |  |  |
| 23                   | 770420.4027 | 1869430.3600 | 983.65    |  |  |  |  |  |  |  |
| 24                   | 770411.6996 | 1869416.9401 | 984.11    |  |  |  |  |  |  |  |
| 25                   | 770438.3648 | 1869418.7113 | 983.61    |  |  |  |  |  |  |  |
| 26                   | 770434.6987 | 1869402.0249 | 984.29    |  |  |  |  |  |  |  |
| 27                   | 770459.5593 | 1869368.5703 | 985.03    |  |  |  |  |  |  |  |
| 28                   | 770457.6978 | 1869387.1096 | 983.90    |  |  |  |  |  |  |  |
| 29                   | 770473.8045 | 1869388.2450 | 983.55    |  |  |  |  |  |  |  |
| 30                   | 770480.3708 | 1869382.6245 | 983.40    |  |  |  |  |  |  |  |

![](_page_55_Figure_19.jpeg)

| C | GRAP | HIC SC       | ALE |
|---|------|--------------|-----|
| 0 | 10   | 20           | 40  |
|   |      |              |     |
|   | 1 ir | nch = 20 fee | et  |

| JNK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>50033–100002 |       |       |       |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|------------------------------------------------------------|-------|-------|-------|----------|-----------------------------------------------------------|--------------------------------------------------------------|
| _Y                                                         |       | OWI   | NER   |          |                                                           |                                                              |
|                                                            |       | CONTR | ACTOR |          |                                                           |                                                              |
|                                                            |       | INSPE | CTOR  |          | SCALE:                                                    | SHEET: $P_4$ (56 of 68)                                      |
|                                                            | AGREE | EMENT | CON   | IPLETED  | 1 =20                                                     |                                                              |
|                                                            | RPD   | CKD   | CLD   | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |
|                                                            |       |       |       |          | CC-18351                                                  |                                                              |

![](_page_56_Figure_0.jpeg)

- EXISTING CONTOURS SHOWN ON THIS SHEET REFLECT THE 2.
- 3.
- 4. UPON COMPLETION OF CONSTRUCTION AT THE SITE, THE CONTRACTOR
- 4.1. REMOVE ALL GRAVEL WITHIN THE SHAFT SITE TO ORGINAL

CITY NO.

![](_page_57_Figure_0.jpeg)

- 1.
- 2.
- 2.1. REMOVE ALL GRAVEL WITHIN THE SHAFT SITE TO ORGINAL
- 2.2.
- 2.4.
- 2.5. FURNISH AND PLACE ANY ADDITIONAL TOPSOIL AS REQUIRED TO

| EASEMENT REFERENCE     REVISIONS     PLAN PREPARED BY:       CITY NO.     COUNTY RECORDER     GRANTOR     MO.     DESCRIPTION     APPROVAL/DATE       VOL.     PAGE     GRANTOR     I     ISOL Loke Shore I     ISOL Loke Shore I       VOL.     PAGE     I     ISOL Loke Shore I     ISOL Loke Shore I       VOL.     PAGE     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shore I     ISOL Loke Shore I       VIL.     I     ISOL Loke Shor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    | DIVING III |            | RDE INTO COMI LIANCE WITH | 1111 | L TINAL SITE      |               |                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------|------------|---------------------------|------|-------------------|---------------|---------------------------------------------------------------------------|
| CITY NO.     COUNTY RECORDER     NO.     DESCRIPTION     APPROVAL/DATE       VOL.     PAGE     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I     I <t< td=""><td></td><td>EA</td><td>SEMENT REF</td><td>FERENCE</td><td></td><td>REVISIONS</td><td></td><td>PLAN PREPARED BY:</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    | EA         | SEMENT REF | FERENCE                   |      | REVISIONS         |               | PLAN PREPARED BY:                                                         |
| VOL. PAGE INON INCOMPAGE INFORMATION INFOR | COUNTY RECORDER CITY NO. VOL. PAGE | COUNTY     | RECORDER   | CRANTOR                   | NO.  | DESCRIPTION       | APPROVAL/DATE |                                                                           |
| Columbus, Ohio 4<br>Tel. 614.486.43<br>www.stantec.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | GRANIOR    |            |                           |      | 1500 Lake Shore [ |               |                                                                           |
| Evans, Mechano<br>Engineers = Surv<br>5500 New Albano<br>Phone: 614.775.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |            |            |                           |      |                   |               | Columbus, Ohio 4<br>Tel. 614.486.43<br>www.stantec.cor                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |            |            |                           |      |                   |               | Evans, Mechwa<br>Engineers • Survi<br>5500 New Albam<br>Phone: 614.775.45 |

|                                                                                                          |                                                      |                                                                                                                 | EX. COLUMBUS & SOUTHERN<br>OHIO ELECTRIC COMPANY<br>150' ELECTRIC EASEMENT<br>D.V. 375, PG. 358                                                                                                       |                                                                                                                  |                                                                                           |          | )Z  |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------|-----|
| G                                                                                                        |                                                      | G                                                                                                               |                                                                                                                                                                                                       |                                                                                                                  | B <b>R</b> )                                                                              |          |     |
|                                                                                                          |                                                      |                                                                                                                 |                                                                                                                                                                                                       |                                                                                                                  |                                                                                           |          |     |
|                                                                                                          |                                                      |                                                                                                                 |                                                                                                                                                                                                       | - SHAFT N<br>- TEMPOR                                                                                            | VORK LIMITS<br>ARY EASEMENT                                                               |          |     |
|                                                                                                          | PROP<br>POINT NO<br>32<br>33<br>34<br>35<br>36<br>37 | OSED SUBG<br>NORTHING<br>775817.9752<br>775828.3656<br>775828.1009<br>775882.7277<br>775905.0860<br>775815.4026 | DONOGHUE EDWARD         7242 HARLEM         316-330-01-09         RADE POINT         EASTING         1871915.0707         1871915.7529         1871957.4474         1872011.0809         1871995.6159 | & VIRGINIE<br>RD<br>8-000<br>TABLE<br>ELEVATION<br>996.90<br>996.89<br>996.85<br>996.93<br>996.96<br>996.87<br>0 | GRAPHIC SCAI                                                                              | _E<br>60 |     |
| HAEL E & HEATHER K<br>270 HARLEM RD<br>330-01-097-000<br>UNK EXTENSION<br>PROVEMENTS PRO<br>50033-100002 | <sup>39</sup><br>PHASE<br>DJECT                      | 775815.4026<br><b>2</b><br>NER                                                                                  | 1871956.6159<br>D                                                                                                                                                                                     | 996.85<br>CITY OI<br>DEPARTMENT (<br>IVISION OF SEW                                                              | 1 inch = 30 feet<br>5 COLUMBUS<br>DF PUBLIC UTILITIES<br>ERAGE AND DRAINA<br>NON USE ONLY | GE       |     |
| F                                                                                                        | CONTR<br>INSPE<br>AGREEMENT<br>RPD CKD               | ACTOR<br>CTOR<br>COMPLETED<br>CLD CON. DR.                                                                      | SCALE:<br>1<br>CONTRACT DRAW<br>CC-                                                                                                                                                                   | "=30'<br>ing no.<br>•18351                                                                                       | sheet: R-6 (<br>record plan no.                                                           | 58 of    | 68) |

![](_page_58_Figure_0.jpeg)

|          | FRANKLIN<br>COUNTY                                     |                                    |                                                    |                               |           | IN COUNTY- |                                       |           |                                |                   |           |                                                                                                             | FRANKLIN C        |                            |                                |                                                                                       |
|----------|--------------------------------------------------------|------------------------------------|----------------------------------------------------|-------------------------------|-----------|------------|---------------------------------------|-----------|--------------------------------|-------------------|-----------|-------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|--------------------------------|---------------------------------------------------------------------------------------|
|          |                                                        |                                    |                                                    |                               |           | CITY OF    | STREET -                              |           |                                |                   |           |                                                                                                             | SMOTHERS F        |                            |                                |                                                                                       |
|          | HAMILTON ROAD                                          |                                    |                                                    | _                             |           |            |                                       |           |                                | ΓΝΤΩ              |           |                                                                                                             | 20                | (19A)                      |                                |                                                                                       |
|          |                                                        |                                    |                                                    |                               |           | UMMART U   | F RIGHT OF                            | WAY - A   | R FASEMENT                     |                   | FASEMENT  |                                                                                                             |                   |                            |                                |                                                                                       |
| No.      | OWNERS NAME                                            | STATION LIMITS                     | DEED RECORD                                        | NUMBER                        | SIZE (AC) | (AC)       | EASEMENT ID                           | SIZE (AC) | ELEV. LIMITS (FT)              | EASEMENT ID       | SIZE (AC) | DESCRIPTION/COMM                                                                                            | ENTS              |                            |                                |                                                                                       |
| 1        | UPPER ALBANY WEST HOME OWNERS ASSOCIATION, INC.        | -0+19 - 1+85                       | PB 114-53                                          | 010-290275-00                 | 1.865     |            | -                                     | -         | -                              | 202108240150883   | 0.297     | TEMPORARY CONSTRUCTION EASEMENT; PROVISION TO DISABLE PUMPS S                                               | UPPLYING WATER    | TO POND DURING             | CONSTRUCTION                   |                                                                                       |
| 2A       | WAYNE L. & GALE A. & FOREST G. & KATHLEEN S. HURSEY    | -0+40 - 0+58                       | OR 13576-B16                                       | 221-000019-00                 | 66.56     |            | 200310310348945                       | 0.334     | N/A                            | -                 | -         | PERMANENT SANITARY EASE                                                                                     | MENT              |                            |                                |                                                                                       |
| 3        | HELLEBREKERS, JOHAN L.                                 | 25+90 - 32+02                      | OR 25516-011                                       | 221-000054-00                 | 6.185     |            | 200403250065166                       | 0.277     | 805.5 - 840.5                  | _                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 4A       | GARDNER, HAROLD J. AND HAZEL A.                        | 33+86 - 35+24                      | DB 2860-430                                        | 221-000012-00                 | 1.0       |            | 200404210089826                       | 0.074     | 806.5 - 841.5                  | _                 | _         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 4B<br>4C | GARDNER, HAROLD J. AND HAZEL A.                        | 35+24 - 36+25<br>33+89 - 36+12     | DB 2860-430                                        | 221-000013-00                 | 1.0       |            | 200404210089827                       | 0.100     | N/A<br>_                       | - 200404210089827 | - 0.600   | PERMANENT SANITARY EASE                                                                                     | MENT<br>ASEMENT   |                            |                                |                                                                                       |
| 4D       | GARDNER, HAROLD J. AND HAZEL A.                        | 36+25 - 42+76                      | DB 2860-432                                        | 221-000012-00                 | 7.040     |            | 200404210089826                       | 0.295     | 807.5 - 842.5                  | _                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 5        | M/I HOMES OF CENTRAL OHIO, LLC                         | 34+49 - 35+95                      | 201812040163486                                    | 600-297994-00                 | 40.817    |            | 201909270126958                       | 0.200     | N/A                            | -                 | -         | PERMANENT EASEMENT                                                                                          |                   |                            |                                |                                                                                       |
| 6        | GREENLEE, GEORGE ED & FRANCYL LYNN<br>MILLER, SCOTT A. | 42+76 - 43+76<br>43+76 - 45+43     | DB 2722-56                                         | 221-000031-00                 | 1.447     |            | 200403250065168                       | 0.038     | 808.0 - 843.0<br>808.5 - 843.5 | -                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 8        | TAYIM, FAUZI                                           | 45+43 - 50+83                      | OR 1403–J14                                        | 221-000062-00                 | 1.447     |            | 200404300097812                       | 0.058     | 809.0 - 844.0                  | _                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 9        | FEASEL, WILLIAM & TRACI A.                             | 50+83 - 53+31                      | OR 19913-E20                                       | 221-000026-00                 | 1.533     |            | 200402130032857                       | 0.047     | 809.5 - 844.5                  | -                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 10       | O'DANIEL, JOSEPH S. JR. & MARGARET G.                  | 53+89 - 54-46                      | DB 2235-636                                        | 221-000028-00                 | 1.45      |            | 202010230166344                       | 0.026     | 806.5 - 841.5                  | -                 | -         | SUBTERRANEAN EASEMENT                                                                                       |                   |                            |                                |                                                                                       |
| 11A      | TRUSTEES OF UNION GRAVETARD                            | 54+46 - 56+35                      | DB 233-397 & DB 247-435<br>DB 233-397 & DB 247-435 | 220-000244-00                 | 1.0       |            | 202011050174783                       | 0.079     | 806.5 - 841.5                  |                   | -         | SUBTERRANEAN EASEMENT - TO BI<br>SUBTERRANEAN EASEMEN                                                       | T ABANDONED       |                            |                                |                                                                                       |
| 12A      | PHILLIPS, ROBERT N.                                    | 56+80 - 57+62                      | DB 3434-927                                        | 010-271873-00                 | 38.5      |            | 200401090006908                       | 0.138     | N/A                            | -                 | -         | PERMANENT SANITARY EASE                                                                                     | MENT              |                            |                                |                                                                                       |
| 12B      | M/I HOMES OF CENTRAL OHIO, LLC                         | 56+35 - 57+55                      | 202006030076796                                    | 010-301106-00                 | 44.717    |            | 202102220032565                       | 0.057     | N/A                            | -                 | -         | PERMANENT SANITARY EASE                                                                                     | MENT              |                            |                                |                                                                                       |
| 12C      | M/I HOMES OF CENTRAL OHIO, LLC                         | 57+62 - 58+69                      | 202006030076796                                    | 010-301106-00                 | 44.717    |            | 202102220032566                       | 0.050     | 806.5 - 841.5                  | -                 | -         | SUBTERRANEAN EASEMEI                                                                                        |                   |                            |                                |                                                                                       |
| 120      | REEVES, AARON B. & STIRN, LINDLEY A.                   | 56+35 - 58+55<br>65+00 - 65+22     | DB 3434-927<br>201912090165289                     | 220-001607-00                 | 38.5      |            | - 202012110197522                     | - 0.011   | - 842.5                        |                   | 0.826     | IEMPORARY CONSTRUCTION E/                                                                                   | ASEMENT<br>NT     |                            |                                |                                                                                       |
| 14       | ALBRECHT, ALAN A.                                      | 65+22 - 66+94                      | 201409110120166                                    | 220-002172-00                 | 3.001     |            | 202107070118715                       | 0.079     | 807.5 - 842.5                  | _                 | _         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 15A      | BOARD OF PARK COMMISSIONERS OF THE COLUMBUS AND        | 66+94 - 70+40                      | 200811210168999                                    | 220-000147-00                 | 106.018   |            | 202104190069497                       | 0.159     | 807.5 - 842.5                  | _                 | _         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 15B      | BOARD OF PARK COMMISSIONERS OF THE COLUMBUS AND        | 66+94 - 69+69                      | 200811210168999                                    | 220-000147-00                 | 106.018   |            | _                                     | _         |                                | 202104190069496   | 1.498     | TEMPORARY CONSTRUCTION E/                                                                                   | ASEMENT           |                            |                                |                                                                                       |
| 150      | BOARD OF PARK COMMISSIONERS OF THE COLUMBUS AND        | 70+40 - 94+56                      | 200811210168999                                    | 220-000112-00                 | 106.018   |            | 202104190069498                       | 1 109     | 810.0 - 845.0                  | _                 | _         | SURTERRANFAN FASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 16       | FRANKLIN COUNTY METROPOLITAN PARK DISTRICT             | 94+56 - 111+38                     | DB 2923-608                                        | 220-001230-00                 | 79,100    |            | 202101140008957                       | 0.772     | 811.0 - 846.0                  | _                 | _         | SUBTERRANFAN FASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 17       | ANDERS, JOEL W. & KATHRYN                              | 111+38 - 113+04                    | 200801250012199                                    | 220-001813-00                 | 5.001     |            | 202106080100438                       | 0.076     | 812.0 - 847.0                  | -                 |           | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 18A      | CHAPEL NORTH                                           | 113+04 - 114+75                    | 201311270197211                                    | 220-002113-00                 | 5.001     |            | 202107140123863                       | 0.079     | 812.0 - 847.0                  | -                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 18B      | CHAPEL NORTH                                           | 114+75 - 118+39                    | 201311270197211                                    | 220-002074-00                 | 6.001     |            | 202107140123863                       | 0.167     | 812.0 - 847.0                  | _                 | -         | SUBTERRANEAN EASEMEI                                                                                        | NT                |                            |                                |                                                                                       |
| 19A      | PATEL. AMRUTLAL J. & BHOGILAL R. TRUSTEES              | 118+39 - 121+90<br>122+62 - 124+02 | OR 1551-2710                                       | 316-330-01-092-000            | 13.395    |            | OR 1884-762                           | 0.162     | N/A                            | -                 | _         | PERMANENT EASEMENT                                                                                          | NI                |                            |                                |                                                                                       |
| 19B      | PATEL, AMRUTLAL J. & BHOGILAL R. TRUSTEES              | 122+62 - 130+05                    | OR 1551-2710                                       | 316-330-01-092-000            | 13.395    |            | -                                     | _         | _                              | OR 1884-767       | 3.399     | TEMPORARY CONSTRUCTION E                                                                                    | SEMENT            |                            |                                |                                                                                       |
| 20       | HENSEL, ANGELA L.                                      | 122+89 - 124+13                    | OR 1438-2163                                       | 316-330-01-093-000            | 1.369     |            | -                                     | -         | -                              | OR 1884-757       | 0.095     | TEMPORARY CONSTRUCTION EA                                                                                   | SEMENT            |                            |                                |                                                                                       |
| ANTOR    | NO. DESCRIPTION                                        | S<br>APPRO                         | DVAL/DATE                                          | BY:                           | nte       | С          |                                       | SUMMAF    | RIGHT OF W                     | ΑΥ<br>Γ ΟΓ WAY    |           | PROJECT TITLE:<br>BIG WALNUT TRUNK EXTENSIO<br>CAPITAL IMPROVEMENTS F<br>650033-100002<br>DIVISION USE ONLY | N PHASE<br>ROJECT | <b>2</b><br>VNER<br>RACTOR | CIT<br>DEPARTME<br>DIVISION OF | Y OF COLUMBUS<br>NT OF PUBLIC UTILITIES<br>SEWERAGE AND DRAINAGE<br>DIVISION USE ONLY |
|          |                                                        |                                    | Stantec Consulti                                   | ing Services Inc.             |           |            | · · · · · · · · · · · · · · · · · · · |           |                                |                   |           |                                                                                                             | INSF              | ECTOR                      | SCALE: 1"=500'                 | SHEET: RW-1 (59 of 68)                                                                |
|          |                                                        |                                    | 1500 Lake Shore<br>Columbus OH 43                  | Drive, Suite 100<br>3204-3800 |           |            |                                       |           |                                |                   |           |                                                                                                             | AGREEMENT         | COMPLETED                  |                                |                                                                                       |
|          |                                                        |                                    | Tel: 614.486.4383<br>www.stantec.c                 | 3<br>com                      |           |            |                                       |           |                                |                   |           |                                                                                                             | КРО СКО           | CLD CON. DR.               | CC-18351                       | RECORD PLAN NO.                                                                       |
|          |                                                        |                                    |                                                    |                               |           |            |                                       |           |                                |                   |           |                                                                                                             |                   |                            |                                |                                                                                       |

|          | EASEMENT REF      | FERENCE |     | REVISIONS   |               | PLAN PREPARED BY:                                             |
|----------|-------------------|---------|-----|-------------|---------------|---------------------------------------------------------------|
| CITY NO. | INSTRUMENT NUMBER | GRANTOR | NO. | DESCRIPTION | APPROVAL/DATE |                                                               |
|          |                   |         |     |             |               |                                                               |
|          |                   |         |     |             |               |                                                               |
|          |                   |         |     |             |               |                                                               |
|          |                   |         |     |             |               | Stantec Consulting Service<br>1500 Lake Shore Drive, Suit     |
|          |                   |         |     |             |               | Columbus OH 43204-3800<br>Tel:614.486.4383<br>www.stantec.com |
|          |                   |         |     |             |               |                                                               |

| PROJECT | TITLE: |
|---------|--------|
|         |        |

![](_page_58_Picture_9.jpeg)

![](_page_59_Figure_0.jpeg)

| EASEMENT REFERENCE |                   |         | REVISIONS       |               | PLAN PREPARED BY:                                                                                                                      |                                       | PROJECT TITLE:                       |
|--------------------|-------------------|---------|-----------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER | GRANTOR | NO. DESCRIPTION | APPROVAL/DATE |                                                                                                                                        |                                       | BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|                    |                   |         |                 |               | <b>Stantec</b>                                                                                                                         | RIGHT OF WAY<br>STA 0+00 TO STA 22+00 | DIVISION USE ONL                     |
|                    |                   |         |                 |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |                                       |                                      |
|                    |                   |         |                 |               |                                                                                                                                        |                                       |                                      |

| JNK EXTENSION PHASE 2<br>ROVEMENTS PROJECT<br>033–100002 |       |       |       |          | CITY OF COLUMBUS<br>DEPARTMENT OF PUBLIC UTILITIES<br>DIVISION OF SEWERAGE AND DRAINAGE<br>DIVISION USE ONLY |                          |  |  |  |
|----------------------------------------------------------|-------|-------|-------|----------|--------------------------------------------------------------------------------------------------------------|--------------------------|--|--|--|
| LY                                                       |       | OWI   | NER   |          |                                                                                                              |                          |  |  |  |
|                                                          |       | CONTR | ACTOR |          |                                                                                                              |                          |  |  |  |
|                                                          |       | INSPE | CTOR  |          | SCALE: 1," 100'                                                                                              | SHEET: $PW_2$ (60 of 68) |  |  |  |
|                                                          | AGREE | EMENT | CON   | IPLETED  | 1 = 100                                                                                                      | ₩-2 (00 01 08)           |  |  |  |
|                                                          | RPD   | CKD   | CLD   | CON. DR. | CONTRACT DRAWING NO.                                                                                         | RECORD PLAN NO.          |  |  |  |
|                                                          |       |       |       |          | CC-18351                                                                                                     |                          |  |  |  |

<u>LEGEND</u>

PHASE 1 PERMANENT EASEMENTS (CC-13653)

PHASE 2 PERMANENT EASEMENTS (CC-18351)

PHASE 2 TEMPORARY EASEMENTS (CC-18351)

![](_page_60_Figure_0.jpeg)

|          | EASEMENT REF      | FERENCE | REVISIONS       |               | PLAN PREPARED BY:                                                    | PROJECT TITLE:         |                               |
|----------|-------------------|---------|-----------------|---------------|----------------------------------------------------------------------|------------------------|-------------------------------|
| CITY NO. | INSTRUMENT NUMBER | GRANTOR | NO. DESCRIPTION | APPROVAL/DATE |                                                                      |                        | BIG WALNUT TRU<br>CAPITAL IMP |
|          |                   |         |                 |               | <b>Stantec</b>                                                       | DICHT OF WAY           | 650                           |
|          |                   |         |                 |               |                                                                      | STA 22+00 TO STA 50+00 | DIVISION USE ON               |
|          |                   |         |                 |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100 |                        |                               |
|          |                   |         |                 |               | Tel: 614.486.4383                                                    |                        |                               |
|          |                   |         |                 |               | www.stantec.com                                                      |                        |                               |

| × 500<br>000<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100     | ZEKANSKI, JOSEPH P.<br>& ELIZABETH A.             |                                                                                                          | SEE SHEET RW7<br>FOR SITE 2A EASEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | s                                           |                                                                                   |
|--------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------|
| PANZONE, ANTHONY J.<br>7440 LEE RD<br>221-000092-00                      | 4667 CAUTELA DR<br>110-005843-00                  | 4A<br>M/I HOMES OF<br>CENTRAL OHIO LLC<br>LEE ROAD<br>600-297994-00<br>35+00<br>35+00<br>36+00<br>600-00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | M/I HOMES OF CENT<br>LEE ROAL<br>600-297993 | IRAL OHIO LLC<br>D<br>3-00                                                        |
| R.                                                                       | CHRISTIAN, MARY J., TR<br>LEE RD<br>221-000052-00 | SIMMS, BENJAMIN & JANET<br>7488 LEE RD<br>600-297995-00                                                  | 20<br>38+00<br>R W<br>39+00<br>R W<br>4<br>39+00<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SANITARY SEWER                              |                                                                                   |
| /ETNAM, SHIRLEY M.<br>7476 LEE RD<br>221–000055–00<br>FRANKLI<br>CITY OF | N COUNTY<br>COLUMBUS                              |                                                                                                          | 22,25,4 44<br>22,25,4 44<br>22,25,4 44<br>22,25,4 44<br>22,25,4 44<br>22,25,4 44<br>22,25,4 44<br>23,25,4 44<br>24,5<br>24,5<br>24,5<br>25,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5<br>24,5 | DI ACKDINEN DICHADD K ET AL                 | 5+00<br>43+00<br>100<br>100<br>100<br>100<br>100<br>100<br>100                    |
|                                                                          |                                                   |                                                                                                          | CRAVEL DRIVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             | E&N-UP ALUM<br>= CREEK, LLC<br>LEE ROAD<br>221-000005-00<br>HIE<br>758<br>221<br> |
|                                                                          |                                                   |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                                                                                   |

| A A A A A A A A A A A A A A A A A A A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| MARKLEY, JEFFREY W.<br>MILES-MARKLEY, BETH A.<br>7561 LEE ROAD<br>221-000071-00<br>$3^{4}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , $7^{7}$ , 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| HIBBITT, BRION<br>& DONNA<br>7580 LEE ROAD<br>221-000042-00<br>KRULCIK, JOHN R.<br>& ELIZABETH E. H.<br>7600 LEE ROAD<br>221-000023-00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RING 49+00<br>RING 49+00<br>RING 500<br>RING 500<br>RIN<br>RING 500<br>RING 500<br>RING 500<br>RING 500<br>RINO |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LEGEND         Image: Display the state of the state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| RUNK EXTENSIOI<br>PROVEMENTS PI<br>0033–100002 | N PH<br>ROJE         | HASE<br>CT | 2       |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DMISION | COLUMBUS<br>PUBLIC UTILITIES<br>RAGE AND DRAINAGE<br>USE ONLY |
|------------------------------------------------|----------------------|------------|---------|----------|----------------------------------------------------------|---------------------------------------------------------------|
| DNLY                                           |                      | OWI        | NER     |          |                                                          |                                                               |
|                                                |                      | CONTR      | ACTOR   |          |                                                          |                                                               |
|                                                |                      | INSPE      | ECTOR   |          | SCALE: 1" 100'                                           | SHEET: $PW_3$ (61 of 68)                                      |
|                                                | AGREEMENT COMPLETED  |            | IPLETED | 1 = 100  | 1(w=5 (61 61 68)                                         |                                                               |
|                                                | RPD CKD CLD CON. DR. |            |         | CON. DR. | CONTRACT DRAWING NO.                                     | RECORD PLAN NO.                                               |
|                                                |                      |            |         |          | CC-18351                                                 |                                                               |

![](_page_61_Figure_0.jpeg)

RPD CKD CLD CON. DR. CONTRACT DRAWING NO.

CC-18351

RECORD PLAN NO.

| EASEMENT REFERENCE |                   |         | REVISIONS       |               | PLAN PREPARED BY:                                                                                                   |                                        | PROJECT TITLE:                       |
|--------------------|-------------------|---------|-----------------|---------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|
| CITY NO.           | INSTRUMENT NUMBER | GRANTOR | NO. DESCRIPTION | APPROVAL/DATE |                                                                                                                     |                                        | BIG WALNUT TRU<br>CAPITAL IMF<br>650 |
|                    |                   |         |                 |               | <b>Stantec</b>                                                                                                      | RIGHT OF WAY<br>STA 50+00 TO STA 75+00 | DIVISION USE ON'                     |
|                    |                   |         |                 |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383 |                                        |                                      |
|                    |                   |         |                 |               | www.stantec.com                                                                                                     |                                        |                                      |

![](_page_62_Figure_0.jpeg)

| AN PREPARED BY:                                                                                                                        |                         | PROJECT TITLE:                       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------|
| <b>Stantec</b>                                                                                                                         | RIGHT OF WAY            | BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
| Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com | SIA /5100 10 SIA 100100 |                                      |

| G                                              |                                                                          |                                    | R                  |                                                                     | R                                                                                    |                                |
|------------------------------------------------|--------------------------------------------------------------------------|------------------------------------|--------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|
| C 20" COLUMBIA GAS PIPEI                       | INE<br>MBUS & SOUTHER<br>ELECTRIC COMPAN<br>HARLEM ROAD<br>220-001230-00 | N ОНЮ<br>Y<br>)<br>+00102·<br>102· | +001               | CHAIN LINK FENCE                                                    | 0105+00                                                                              | 06+00, SHEET RW-6              |
|                                                |                                                                          | CHAIN LINK F                       | ENCE               | AEP SUBSTATION                                                      |                                                                                      | MATCH LINE STA. 1              |
| RUNK EXTENSION<br>PROVEMENTS PI<br>0033-100002 | N PHASE<br>ROJECT                                                        | 2<br>NER<br>ACTOR                  | LEGEN              | D<br>PHASE 2 PERM<br>PHASE 2 TEMPO<br>DEPARTMENT<br>DIVISION OF SEV | ANENT EASEMENT<br>ORARY EASEMENT<br>OF COLUMBUS<br>OF PUBLIC UTILI<br>NERAGE AND DRA | IS (CC-18351)<br>TS (CC-18351) |
|                                                | AGREEMENT<br>RPD CKD                                                     | CTOR<br>COMPLETED<br>CLD CON. DR.  | SCALE:<br>CONTRACT | 1"=100'<br>drawing no.<br>C-18351                                   | SHEET: RW-                                                                           | 5 (63 of 68)<br><sup>NO.</sup> |

![](_page_63_Figure_0.jpeg)

|          | EASEMENT REFERENCE |         |     | REVISIONS   |               | PLAN PREPARED BY:                                                                              |                                          | PROJECT TITLE:                       |
|----------|--------------------|---------|-----|-------------|---------------|------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------|
| CITY NO. | INSTRUMENT NUMBER  | GRANTOR | NO. | DESCRIPTION | APPROVAL/DATE |                                                                                                |                                          | BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|          |                    |         |     |             |               | <b>Stantec</b>                                                                                 | RIGHT OF WAY<br>STA 106+00 TO STA 123+51 | DIVISION USE ONL                     |
|          |                    |         |     |             |               | Stantec Consulting Services Inc.<br>1500 Lake Shore Drive, Suite 100<br>Columbus OH 43204-3800 |                                          |                                      |
|          |                    |         |     |             |               | Tel: 614.486.4383<br>www.stantec.com                                                           |                                          |                                      |

| JNK EXTENSIOI<br>ROVEMENTS P<br>033-100002 | N PH<br>ROJE | HASE<br>CT | 2     |          | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |  |
|--------------------------------------------|--------------|------------|-------|----------|-----------------------------------------------------------|--------------------------------------------------------------|--|
| _Y                                         |              | OWI        | NER   |          |                                                           |                                                              |  |
|                                            |              | CONTR      | ACTOR |          |                                                           |                                                              |  |
|                                            |              | INSPE      | ECTOR |          | SCALE: 1"-100'                                            | SHEET: $\mathbf{RW} = 6$ (64 of 68)                          |  |
|                                            | AGRE         | EMENT      | CON   | IPLETED  | 1 =100                                                    | NW-0 (04 01 08)                                              |  |
|                                            | RPD          | CKD        | CLD   | CON. DR. | CONTRACT DRAWING NO.                                      | RECORD PLAN NO.                                              |  |
|                                            |              |            |       |          | CC-18351                                                  |                                                              |  |

| LEGEND<br>DUASE 2 DEDMANENT FASEMENTS (00 1875 | 1 \ |
|------------------------------------------------|-----|
| PHASE Z PERMANENT EASEMENTS (CC-1035           | ')  |
| PHASE 2 TEMPORARY EASEMENTS (CC-1835           | 1)  |
|                                                |     |

![](_page_64_Figure_0.jpeg)

| tantec          | RICHT OF WAY             | PROJECT TITLE:<br>BIG WALNUT TRU<br>CAPITAL IMP<br>650 |
|-----------------|--------------------------|--------------------------------------------------------|
| s Inc.<br>= 100 | SHAFT SITES 1, 2, AND 2A | DIVISION USE ONL                                       |

| R<br>E                                    | \W                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | WALNUT S                                                                                                  | TREET 90' °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | E/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/PE/P |
|                                           | 24 ACCESS SHAFT 2-1<br>STA 0+57.0<br>57 00<br>101<br>101<br>M/I HOMES OF<br>E. WAI<br>010-<br>(2)<br>210' | SB+00<br>20<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 200<br>ORAVILE DRVE                                                                                                                                                                                                   |
|                                           |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                       |
|                                           | <u>SHAFT SITE</u><br>SCAL                                                                                 | 2 EASEMENTS<br>E 1"=40'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                       |
|                                           |                                                                                                           | LEGENDImage: Strain Stra | PERMANENT EASEMENTS<br>TEMPORARY EASEMENTS<br>PERMANENT EASEMENTS<br>TEMPORARY EASEMENTS                                                                                                                              |
| NK EXTENSIOI<br>ROVEMENTS P<br>033-100002 | N PHASE 2<br>ROJECT                                                                                       | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWEF<br>DIVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COLUMBUS<br><sup>7</sup> PUBLIC UTILITIES<br>RAGE AND DRAINAGE<br>1 USE ONLY                                                                                                                                          |
| (                                         | OWNER<br>CONTRACTOR<br>INSPECTOR<br>AGREEMENT COMPLETED                                                   | SCALE: 1"=40'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <sup>SHEET:</sup> RW-7 (65 of 68)                                                                                                                                                                                     |
|                                           | RPD   CKD   CLD  CON. DR.                                                                                 | CONTRACT DRAWING NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RECORD PLAN NO.                                                                                                                                                                                                       |

CC-18351

![](_page_65_Figure_0.jpeg)

| PLAN PREPARED BY:                                              |               | REVISIONS   |     |         | EASEMENT REFERENCE |         |  |  |  |  |
|----------------------------------------------------------------|---------------|-------------|-----|---------|--------------------|---------|--|--|--|--|
|                                                                | APPROVAL/DATE | DESCRIPTION | NO. | GRANTOR |                    | CITY NO |  |  |  |  |
|                                                                |               |             |     |         |                    |         |  |  |  |  |
|                                                                |               |             |     |         |                    |         |  |  |  |  |
|                                                                |               |             |     |         |                    |         |  |  |  |  |
| Stantec Consulting Service<br>1500 Lake Shore Drive, Suite     |               |             |     |         |                    |         |  |  |  |  |
| Columbus OH 43204-3800<br>Tel: 614.486.4383<br>www.stantec.com |               |             |     |         |                    |         |  |  |  |  |
|                                                                |               |             |     |         |                    |         |  |  |  |  |

![](_page_65_Picture_3.jpeg)

PROPOSED IMPROVEMENTS ARE LOCATED IN BOTH DELAWARE AND FRANKLIN COUNTY OHIO. THE CONTRACTOR IS OBLIGATED TO ADHERE TO THE INDIVIDUAL REQUIREMENTS OF THE VARIOUS JURISDICTIONS. WHILE THE PLANNED IMPROVEMENTS ARE TYPICALLY LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY, ACCESS DRIVE CONSTRUCTION AND OTHER MISCELLANEOUS WORK LOCATED IN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE OHIO DEPARTMENT OF TRANSPORTATION, STANDARD CONSTRUCTION DRAWINGS.

#### LOCAL ACCESS

MAINTAIN INGRESS AND EGRESS TO ALL PROPERTIES AFFECTED BY THIS IMPROVEMENT AT ALL TIMES. ANY COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM ITEM, GENERAL CONSTRUCTION AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO MAINTAIN LOCAL ACCESS TO PROPERTIES.

PEDESTRIAN ACCESS THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH, AROUND, AND AWAY FROM THE CONSTRUCTION SITE.

THE SAFETY OF PEDESTRIAN TRAFFIC SHALL BE CONSIDERED AT ALL TIMES IN THE PROVISION OF TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS AND NOTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LIGHTS, SIGNS, BARRICADES, AND OTHER WARNINGS TO PHYSICALLY SEPARATE THE PEDESTRIAN FROM HAZARDS INCIDENTAL TO THE CONSTRUCTION OPERATIONS SUCH AS OPEN EXCAVATIONS, ETC. AT ALL TIMES, THE PEDESTRIAN MOT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

DELAWARE COUNTY NOTES IN ADDITION TO THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS INDICATED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION AND ITEM 614, THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

BEFORE WORK BEGINS, DESIGNATE A PERSON UNDER THE CONTRACTOR'S EMPLOYMENT TO BE RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL DEVICES ASSOCIATED WITH THIS PROJECT. THIS PERSON MUST BE AVAILABLE TO BE CONTACTED 24 HOURS A DAY BY THE DELAWARE COUNTY ENGINEER AND ALL INTERESTED LAW ENFORCEMENT AGENCIES IN THE EVENT THAT ANY PROBLEMS ARISE DURING NON-WORKING HOURS. THIS PERSON SHALL CORRECT ANY DEFICIENCIES WITHIN 4 HOURS OF NOTIFICATION BY THE ENGINEER OR LAW ENFORCEMENT AGENCIES. SUBMIT TO THE ENGINEER, IN WRITING, THE NAME AND TELEPHONE NUMBER OF THIS PERSON NO LESS THAN THREE (3) WORKING DAYS BEFORE INSTALLATION OF ANY TRAFFIC CONTROL DEVICES. DELAWARE COUNTY ENGINEER, 50 CHANNING STREET, DELAWARE, OHIO 43015, PHONE: 740-833-2400, FAX: 740-833-2399.

FURNISH, ERECT, AND MAINTAIN SIGNS, SIGN SUPPORTS, AND BARRICADES OF THE TYPE AND LOCATION SHOWN AS REQUIRED BY THE STANDARD DRAWINGS.

#### FRANKLIN COUNTY NOTES

A MINIMUM OF TWO 10' LANES (ONE LANE OF TRAFFIC IN EACH DIRECTION) SHALL BE MAINTAINED DURING NON-WORKING HOURS. AND PEAK PERIODS (7AM-9AM AND 3PM-6PM). TWO-WAY ONE LANE TRAFFIC IS PERMITTED DURING WORKING NON-PEAK HOURS. TWO-WAY ONE-LANE TRAFFIC SHALL BE MAINTAINED AS PER THE OMUTCD EXCEPT THAT LAW ENFORCEMENT OFFICERS (L.E.O.S) WITH EMERGENCY VEHICLES SHALL BE SUBSTITUTED FOR EACH FLAG PERSON. REFER TO ODOT SCD MT-97.10 FOR ADDITIONAL NOTES.

THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER'S TRAFFIC DEPARTMENT AT 525-6036 TWO WEEKS PRIOR TO BEGINNING WORK. AND WEEKLY THEREAFTER. TO DISCUSS ANY CHANGES TO THE MAINTENANCE OF TRAFFIC PLAN AND/OR COMPLETION DATE. BEFORE WORK IS STARTED ON THIS PROJECT THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATION AND A TRAFFIC MAINTENANCE CONTROL PLAN FOR APPROVAL. NO WORK WILL BE STARTED THAT WILL RESTRICT ANY LANE USAGE UNLESS IT IS THE INTENT OF THE CONTRACTOR TO WORK FULL TIME WITH A FULL FORCE IN ORDER TO COMPLETE THE WORK WITHOUT UNNECESSARY DELAYS.

THE FOLLOWING DEVICES MUST MEET NCHRP 350 OR MASH-08 BEFORE THE DEVICES ARE INSTALLED ON THE PROJECT: DRUMS, CONES, VERTICAL PANELS AND THE PANEL SUPPORT, PORTABLE SIGN SUPPORTS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY CONCRETE BARRIER, AND BARRICADES.

ALL CONSTRUCTION SIGNAGE SHALL BE INSTALLED AND COVERED BEFORE CONSTRUCTION SHALL BEGIN. AFTER CONSTRUCTION SIGN INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE FRANKLIN COUNTY ENGINEER'S OFFICE TRAFFIC DEPARTMENT AT 525-6036 THREE WORKING DAYS BEFORE WORK BEGINS AND REQUEST AN INSPECTION OF ALL SIGNAGE.

FACES OF CONSTRUCTION SIGNS AND REFLECTIVE SHEETING ON BARRICADES SHALL BE TYPE H (VIP). ALL ORANGE CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE. ALL SHEETING WILL BE TESTED FOR REFLECTIVITY PER ODOT 730.192. VERTICAL PANELS AND DRUM BANDS SHALL BE REFLECTORIZED WITH TYPE G (HIGH INTENSITY) SHEETING COMPLYING WITH THE REQUIREMENTS OF 730.19. ALL SIGNS AND BARRICADES, VERTICAL PANELS, AND DRUMS WILL BE LIKE NEW AND IN GOOD CONDITION IN CONFORMANCE WITH "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES" PUBLISHED BY ATSSA.

MAINTENANCE OF ALL CONTRACTOR SUPPLIED SIGNS, BARRICADES, VERTICAL PANELS AND DRUMS IS THE CONTRACTOR'S RESPONSIBILITY. IF THE CONTRACTOR FAILS TO CORRECT DEFICIENCIES WITHIN FOUR HOURS OF NOTIFICATION, FRANKLIN COUNTY SHALL CORRECT OR HIRE SOMEONE TO CORRECT THE DEFICIENCIES. THE CONTRACTOR SHALL THEN BE BACK CHARGED PER ODOT SPECIFICATION 614. IN THE CASE THAT BACK CHARGING THE CONTRACTOR IS NOT APPLICABLE, THE COUNTY WILL RESCIND AND WITHHOLD ALL PERMITS ISSUED TO THE CONTRACTOR TO WORK WITHIN COUNTY RIGHT-OF-WAY UNTIL THE ISSUE IS SETTLED.

THESE PROVISIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF ANY OF HIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC.

EXISTING TRAFFIC SIGN MAINTENANCE

SPECIAL CARE SHALL BE TAKEN TO MAINTAIN EXISTING STREET NAME SIGNS AND STOP SIGNS. IF NECESSARY, THE CONTRACTOR SHALL RELOCATE THESE SIGNS OUT OF THE WAY OF CONSTRUCTION, BUT IN CONFORMANCE WITH OMUTCD. ANY DAMAGED SIGN SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

PERMANENT TRAFFIC CONTROL ALL EXISTING AND PROPOSED PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THE PROJECT BY THE CONTRACTOR. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 614 AND THE OMUTCD. A UNIFORMED LAW ENFORCEMENT OFFICER (L.E.O.) AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS, SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

1. FOR ALL LANE CLOSURES. LEOS SHALL BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. 2. DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

THE L.E.O.S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE ENGINEER SHALL HAVE CONTROL OF THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. L.E.O.S SHALL CONTACT THE ENGINEER'S TRAFFIC SAFETY ENFORCEMENT ANALYST AT 614-525-2485 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS ITEM.

LOCAL ACCESS INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL RESIDENTIAL AND COMMERCIAL PROPERTIES. DRIVEWAY CLOSURES MAY BE NECESSARY TO ENABLE WORK ON, OR IN FRONT OF, A DRIVE. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING OWNERS, RESIDENTS, OR BUSINESS OPERATORS, IN WRITING, AT LEAST 48 HOURS, BUT NOT MORE THAN 72 HOURS. PRIOR TO CLOSURE. THE ENGINEER SHALL BE GIVEN A LIST OF THE PERSONS THAT WERE GIVEN NOTICES WITH THE DATE OF NOTICE INCLUDED. CLOSURE IS PERMITTED ONLY DURING WORK HOURS AND ACCESS MUST BE RETURNED AT THE END OF EACH WORKING DAY. PROPERTIES WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED AT A TIME, WHILE WORK IS PERFORMED IN THE AREA OF THE CLOSED DRIVE. INDIVIDUAL DRIVE CLOSURES SHALL BE KEPT TO THE MINIMUM TIME NEEDED FOR CONSTRUCTION ACTIVITIES. EVERY EFFORT MUST BE MADE TO ACCOMMODATE THE OWNER'S NEED FOR ACCESS.

| EA              | SEMENT REF             | FERENCE                                                                  |                                                    | REVISIONS                                                                                            | PLAN PREPARED BY:                                                                     |
|-----------------|------------------------|--------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| COUNTY RECORDER |                        |                                                                          | NO.                                                | DESCRIPTION APPRO                                                                                    |                                                                                       |
| VOL.            | PAGE                   | GRANIOR                                                                  |                                                    |                                                                                                      | 1500 Lake Shore Dr                                                                    |
|                 |                        |                                                                          |                                                    |                                                                                                      | Columbus, Ohio 43<br>Tel. 614.486.438<br>www.stantec.com                              |
|                 |                        |                                                                          |                                                    |                                                                                                      |                                                                                       |
|                 |                        |                                                                          |                                                    |                                                                                                      |                                                                                       |
|                 |                        |                                                                          |                                                    |                                                                                                      | Evans, Mechwart<br>Engineers - Surver<br>5500 New Albany I<br>Phone: 614.775.450<br>e |
|                 | EA<br>COUNTY I<br>VOL. | EASEMENT       REF         COUNTY       RECORDER         VOL.       PAGE | EASEMENT REFERENCE   COUNTY RECORDER   VOL.   PAGE | EASEMENT REFERENCE       NO.         COUNTY RECORDER       GRANTOR       NO.         VOL.       PAGE | EASEMENT REFERENCE       NO.       DESCRIPTION       APPROVAL         VOL.       PAGE |

Toll Free: 888.775.3648

![](_page_66_Figure_26.jpeg)

![](_page_66_Figure_27.jpeg)

### LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS SCALE: NONE

| JNK EXTENSIOI<br>ROVEMENTS P<br>50033-100002 | N PH<br>ROJE<br>2 | HASE<br>CT           | 2     |          | DEPARTMENT OF<br>DIVISION OF SEWER | PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |  |
|----------------------------------------------|-------------------|----------------------|-------|----------|------------------------------------|--------------------------------------------------|--|
| Y                                            |                   | OWI                  | NER   |          |                                    |                                                  |  |
|                                              |                   | CONTR                | ACTOR |          |                                    |                                                  |  |
|                                              |                   | INSPE                | ECTOR |          | SCALE:                             | SHEET: $M \cap T = 1$ (67 of 68)                 |  |
|                                              | AGRE              | EEMENT COMPLETED     |       | IPLETED  | NOT TO SCALE                       |                                                  |  |
|                                              | RPD               | RPD CKD CLD CON. DR. |       | CON. DR. | CONTRACT DRAWING NO.               | RECORD PLAN NO.                                  |  |
|                                              |                   |                      |       |          | CC-18351                           |                                                  |  |

CITY OF COLUMBUS

# HAUL ROUTE NOTES:

- 1. THE INTENT OF THE DESIGNATED HAUL ROUTE IS TO DIRECT THE LARGE VOLUME OF HEAVY CONSTRUCTION TRAFFIC ANTICIPATED AT THE PRIMARY STAGING AREA ALONG ARTERIAL ROADWAYS DESIGNED TO HANDLE SUCH TRAFFIC FROM BOTH A PHYSICAL LOADING AND VOLUME STANDPOINT.
- 2. CONSTRUCTION TRAFFIC TO/FROM THE SUBSEQUENT SHAFT SITES ARE NOT RESTRICTED TO THIS DESIGNATED HAUL ROUTE. CONSTRUCTION TRAFFIC TO/FROM THOSE SITES SHALL UTILIZE ONLY ARTERIAL ROADWAYS AND SHALL AVOID LOCAL STREETS.
- 3. DELIVERY TO/FROM THE PRIMARY STAGING SITE IS REŚTRICTED TO HOURS NOTED IN SPEC 01100 - SUMMARY OF WORK.
- 4. ALL TRUCKS HAULING LOOSE MATERIAL SHALL HAVE LINED/SEALED BEDS TO PREVENT LEAKAGE WHILE IN TRANSIT.
- 5. THERE ARE NO RESTRICTIONS RELATIVE TO GENERAL PASSENGER VEHICLES.
- 6. ALL HAULING SHALL MEET FCE SPECIAL ⇒ HAULING PERMIT GUIDELINES.
- 7. WEST OF THE PROJECT WORK LIMITS, A  $^{ imes}$  separate project: the central college braceROAD/ULRY ROAD RECONSTRUCTION (DPS PROJECT #440106-100000) IS EXPECTED TO BE UNDER CONSTRUCTION SIMULTANEOUSLY WITH BWSTE 2. THE CONTRACTOR SHALL AVOID THE PROJECT LIMITS FOR THE ROADWAY RECONSTRUCTION PROJECT. SHOULD ANY COORDINATION BE REQUIRED, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ROADWAY 🕳 RECONSTRUCTION PROJECT.

![](_page_67_Figure_8.jpeg)

| EASEMENT REFERENCE |        |           |         |     | REVISIONS   | PLAN PREPARED BY: |                                                                         |
|--------------------|--------|-----------|---------|-----|-------------|-------------------|-------------------------------------------------------------------------|
|                    | COUNTY | RECORDER  | CRANTOR | NO. | DESCRIPTION | APPROVAL/DATE     |                                                                         |
| CIT NO.            | VOL.   | VOL. PAGE | GRANTUR |     |             |                   | 1500 Lake Shore                                                         |
|                    |        |           |         |     |             |                   | Columbus, Ohio<br>Tel. 614.486.43<br>www.stantec.coi                    |
|                    |        |           |         |     |             |                   | Evans, Mechwa<br>Engineers - Surv<br>5500 New Albam<br>Phone: 614.775.4 |

![](_page_67_Picture_11.jpeg)

| JNK EXTENSIOI<br>ROVEMENTS PI<br>50033-100002 | N PH<br>ROJE<br>2 | HASE<br>CT | 2      |                | CITY OF (<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br><sup>USE ONLY</sup> |  |
|-----------------------------------------------|-------------------|------------|--------|----------------|-------------------------------------------------------------|-------------------------------------------------------------------------|--|
| LY                                            |                   | OW         | NER    |                |                                                             |                                                                         |  |
|                                               |                   | CONTF      | RACTOR |                |                                                             |                                                                         |  |
|                                               |                   | INSPE      | ECTOR  |                | SCALE: 1"-1200'                                             | SHEET, $MOT = 2$ (68 of 68)                                             |  |
|                                               | AGREE             | EMENT      | CON    | <b>IPLETED</b> | 1 -1200                                                     |                                                                         |  |
|                                               | RPD               | CKD        | CLD    | CON. DR.       | CONTRACT DRAWING NO.                                        | RECORD PLAN NO.                                                         |  |
|                                               |                   |            |        |                | CC-18351                                                    |                                                                         |  |
|                                               |                   |            |        |                |                                                             |                                                                         |  |

| JNK EXTENSIO<br>ROVEMENTS P<br>50033-10000 | N PH<br>ROJE<br>2 | HASE<br>CT | 2      |         |        | CITY OF<br>DEPARTMENT OF<br>DIVISION OF SEWER<br>DIVISION | COLUMBUS<br>PUBLIC UTILITIES<br>AGE AND DRAINAGE<br>USE ONLY |
|--------------------------------------------|-------------------|------------|--------|---------|--------|-----------------------------------------------------------|--------------------------------------------------------------|
| LY                                         |                   | OW         | NER    |         |        |                                                           |                                                              |
|                                            |                   | CONTF      | RACTOR |         |        |                                                           |                                                              |
|                                            |                   | INSPE      | ECTOR  |         | SCALE: | 1"-1200'                                                  | SHEET: MOT-2 (68 of 68                                       |
|                                            | AGREE             | EMENT      | CON    | IPLETED |        | 1 = 1200                                                  |                                                              |
|                                            |                   |            |        |         |        |                                                           | DECODE DI ANI NO                                             |

| <b>GRAPHIC SCALE</b> |     |      |      |  |  |  |  |  |  |  |  |  |  |
|----------------------|-----|------|------|--|--|--|--|--|--|--|--|--|--|
| 0                    | 600 | 1200 | 2400 |  |  |  |  |  |  |  |  |  |  |
|                      |     |      |      |  |  |  |  |  |  |  |  |  |  |
| 1 inch =1200 feet    |     |      |      |  |  |  |  |  |  |  |  |  |  |

N