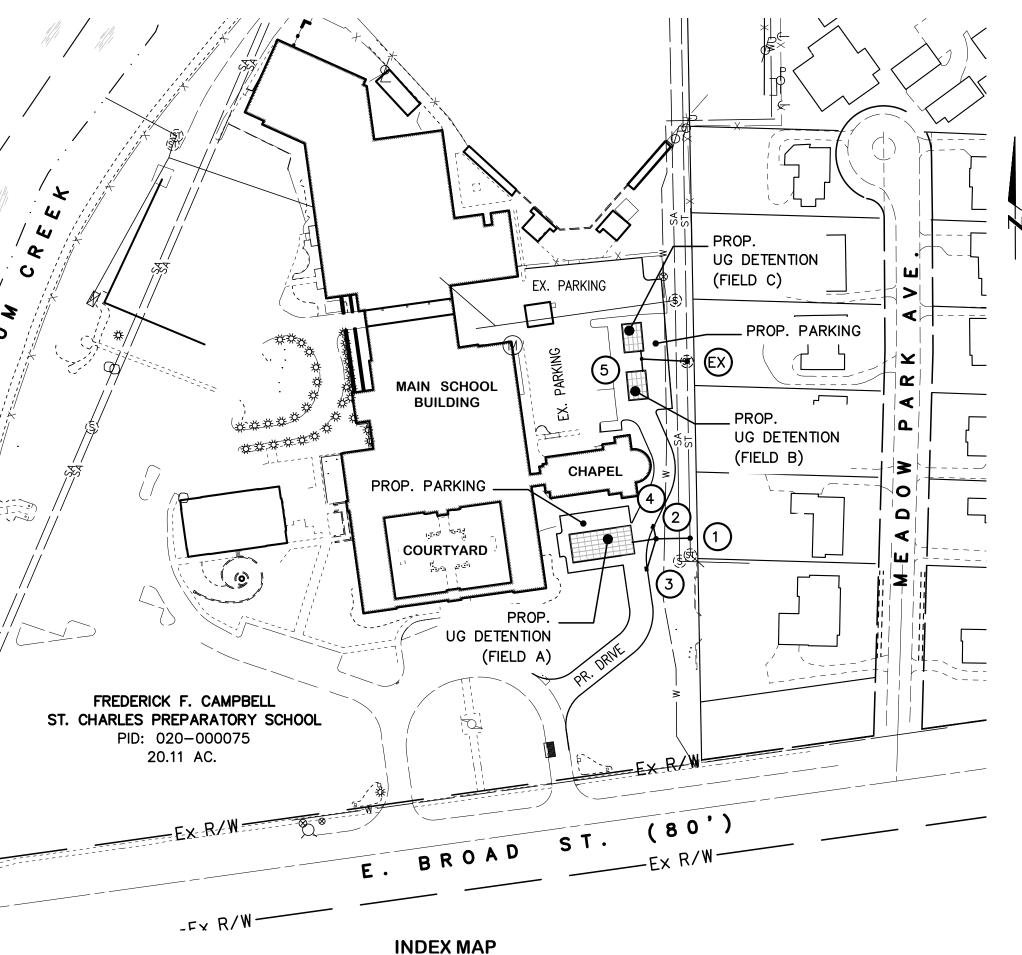
				Before You Dig	PRELIMINARY
<ul> <li>Michael Certh A 2000: PERFECTION Res Workshop To THE SCHWARD SPECIFIC MARK AND PERFECTION RESERVATION TO THE ACCOUNT AND PERFECTION RESERVATION RESER</li></ul>			BY	-11 OHIO811_org	AA-S117 AA-S149
Here and by Define As also statistications are dependent in the FEDDRING STREEC AND BY THE CONTROL OF AND ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS OF THE OTT EDUNCES OF THE DOT AND THE CONTROL ON THE ASSA SCHEME EVANOUS FOR THE OTT EDUNCES.  EVANOUS FRANCES OF THE DOT AND THE CONTROL ON THE PARK ARE DOT AND ASSA SCHEME THE ASSA SCHEME THE OTT THE OTT EDUNCES OF THE OTT ASSA SCHEME AND ASSA SCHEME ASSA	PH: 614-224-1	221 EM/		FAX: (614) 299–2992	AA-S106         AA-S133A           AA-S107         AA-S141
THE STATES FROM A SUCCESSFORMER, IN CASE OF MERICIPANES OF HER FOLLOWING STRUCTURES, OF ME HER CONTROLLES AND MALES STATES THE CONTROL OF AND INCOME TO MALES IN CONTROL OF THE STATES FOR THE STATES THE OTY EXPRESSION OF THE CONTROL OF AND INCOME TO TRUCTURES AND AND THE DELTE POSICIES OF THE OTY EXPRESSION OF THE CONTROL OF AND INCOME TO TRUCTURES AND AND THE DELTE POSICIES OF THE OTY EXPRESSION OF THE CONTROL OF AND INCOME TO TRUCTURES AND AND THE PRESSION OF AND RESERVED AND STATES. AND FROM AND AND RESERVED AND ALL SHOULD HER AND ALL ON SAME TO THE OTY EXPRESSION OF THE CONTROL OF AND AND ALL SHOULD HER AND ALL OF AND AND ALL OF AND RESERVED AND STATES. AND FROM AND ALL OF AND ALL SHOULD HER AND ALL OF AND ALL OF AND RESERVED AND STATES. AND FROM AND ALL OF AND ALL SHOULD HER AND ALL OF AND ALL OF AND RESERVED AND STATES. AND FROM AND ALL OF AND ALL SHOULD HER AND ALL OF AND ALL OF AND RESERVED AND STATES. AND FROM AND ALL OF AND ALL SHOULD HER AND ALL OF AND ALL OF AND RESERVED AND STATES. AND FROM AND ALL OF AND ALL SHOULD HER AND ALL OF AND ALL OF AND RESERVED AND ALL OF AND ALL OF AND ALL SHOULD HER ALL OF AND ALL OF AND RESERVED AND ALL OF AND ALL OF AND ALL SHOULD HER ALL OF AND ALL SHOULD ALL OF AND ALL ALL OF ALL OF AND A	198 E. BROAD COLUMBUS, OH 4 CONTACT: WILLIAM S	ST. 3215 ( . DAVIS	COLUMBUS, OH 43215 CONTACT: BRENT T. FOLEY PH: 614–942–1050	COLUMBUS, OHIO 43212 CONTACT: CHAD MACWHINNEY, P.E. PHONE: (614) 299–2999	SEWERAGE & DRAINAGE     CITY OF BE.       AA-S102     AA-S125A
THESE FLASS DOCET AS SUCK FEEDERATIONS AS MODIFIED BY THE FOLLING SPECIFICATIONS, OR BY THE SUCREMENTION DEVELOPMENTS AND	INFORMATI FREDERICK F. CAM	ON PBELL	INFORMATION TRIAD ARCHITECTS	INFORMATION E.P. FERRIS & ASSOCIATES, INC.	
THESE FLASS EXCEPT AS SUCK PECERCATORS ARE MORED BY THE FOLLTWING SPECIFICATIONS, OR BY THE OWNER OF THE CONTRACTS SUT OWNER HOURS. IN CASE OF ANY CONTUNE AGAIN SUES DAVIDE TOWNER ANY THE SOUTENESS SPECIFICATIONS, THE CONTRACTS CONTRACTOR CONTENT AGAIN CASE OF THE TOWNER ON THE SOUTENESS OF THE CONTRACTS SUPERIOR OF THE TOWNER ANY THE SOUTENCE OF THE SOUTENESS OF THE CONTRACTS SUPERIOR OF THE TOWNER ANY THE SOUTENCE OF THE SOUTENESS OF THE CONTRACTS SUPERIOR OF THE TOWNER ANY THE SOUTENCE OF THE SOUTENESS OF THE CONTRACTS SUPERIOR CONTRACTS SUPERIOR SUPERIOR OF THE CONTRACTS SUPERIOR OF THE TOWNER OF THE TOWNER OF THE TOW	OWNERS. THE CONTRAUTILITIES AS REQUIRED	CTOR IS RESPONSIBLE FOI BY THE PLAN WITH THE	R COORDINATING THE RELOCATION A OWNER OF THE AFFECTED UTILITY.	AND/OR PROTECTION OF ANY	
THESE PLANS EXCEPT AS 30H SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE OWNSTRUCTION CHAILS SET CORT HEREIN. IN CASE OF ANY CONTROL AND ON THESE UNDERDED TECHNICAL SPECIFICATIONS, THE GRATHER REQUEREMENT AND LIKE PRECEDENCE (AS DETERMINED BY THE SOLE DESCRIPTION OF THE OTH CANCEL? UNLSS DORTED OTHERWES BY THE CONTRACTORS THE SOLE DESCRIPTION OF THE OTH CANCE? UNLSS DORTED OTHERWES BY THE CONTRACTORS THE SOLE DESCRIPTION CONTRACTOR SOLE OF THE CONTRACTOR SHALL CAREFULLY PRESERVE BROWNER. SERVICES UNLSS DEFORM TO THE CONTRACTOR SHALL CAREFULLY PRESERVE BROWNER, PROVENT OF ECOLUMNOS TO THE CONTRACTOR SHALL BE CONTRACTOR SHALL BE CONTRACTOR SHALL CAREFULLY PRESERVE BROWNER, STOREMENT WITH CONTRACTORS SHALL BE CONTRACTOR SHALL BE CONTRACTOR SHALL CAREFULLY PRESERVE BROWNER, STOREMENT WITH CONTRACTORS SHALLES CALEFY DESCRIPTION CONTRACTOR SHALL DE RESET OF AN OHIO REGISTERED SURVYOR AT THE CONTRACTORS SHERE FOR CONTRACTOR SHALL DE RECEIPT WITH ON CALL SHERE/THE RITH EXPOSENCE FOR CONTRACTOR SHALL DE RECEIPT WITH ON CALL SHERE/THRONG SHELLES CALLY PRESPONSIBLE FOR CONTRACTOR SHALL DE RECEIPT WITH CONTRACTORS SHELLES CALLY PRESPONSIBLE FOR CONTRACTOR SHALL DE RECEIPT WITH DE OT Y NONCERN SHIE FOR THE AND SUPERVISE ALL SAFETY RECORDERING TO FILE CONTRACTOR SHALL DE SOLLY THE CONTRACTORS SHERE FOR CONTRACTOR SHALL DE RECORD AND ANY AND ALL SHERE/THRONG SHELLES CALLY PRESPONSIBLE FOR CONTRACTOR SHALL DE RECORD AND ANY AND ALL SHERE/THRONG SOLE FOR THE OTT HE CONTRACTOR SHALL MORE/THE ADD CONTRACTORS THE SHALL DE ONE WITH CONTRACTOR SHALL DE CONTRACTOR SHALL DE SOLLY THE ALL PRESPONSIBLE FOR FOURDERS ON CONTRED START FROMEWOW ON THE READ ON THE ALL PRESPONSIBLE FOR FOURDERS ON CONTRED START RECORDERS AND HIGH THE CONTRACTOR SHALL MORE/THAN AND SUPERVISE DECORDS OF HIGH THE OWNER CONTRACTOR SHALL SALES AND AND AND SUPERVISE DECORDS OF HIGH THE OWNER CONTRACTOR SHALL SALES AND AND AND SUPERVISE DECORDS OF HIGH THE OWNER AND HE AND THE OTY OF ALL REPORTS AND GOVERNMENT AND ANALY	PROCEED WITH THE WO PROTECTIVE OF SAFET 3781.30 OF THE OHIO ALL PRIVATE UTILITY F	ORK AND PROTECT ALL UN Y AND UNDERGROUND UTIL REVISED CODE. RELOCATION (GAS, ELECTRIC	IDERGROUND UTILITIES IN A MANNER LITIES AS THOSE METHODS IDENTIFIE C, PHONE, ETC.) WILL BE THE RESP	R AT LEAST AS CAUTIOUS AND D IN SECTIONS 3781.25 THROUGH PONSIBILITY OF THE UTILITY	
THESE FLAXS EXCEPT AS 30H SPECIFICATIONS ARE WOOTHED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION OPAILS SET OFFIN HEREIN, IN CASE OF ANY CONFUTE CONSTRUCTION CAREFUL SET OF ANY CONFIDENCE OF ANY CONFIDENCE OFFICIAL SET OFFICIAL SET OFFICIAL MARKES THE OFFICIAL AND STATES THE ANY AND ANY AND SET OFFICIAL SET OFFICIAL SET OFFICIAL SET OFFICIAL SET OFFICIAL AND STATES TO ANY ONE CHESE DEVICE AND STRUCTURE AND STATES THE ANY AND ANY	WEEKENDS OR HOLIDA' TO OUPS. THE CONTRACTOR IS F	YS. CONTRACTOR SHALL S RESPONSIBLE FOR THE INVE	SIMILARLY CONTACT ALL UTILITY OW	INERS WHO ARE NOT SUBSCRIBERS	
THESE FLANS EXCEPT AS SUCH SECRETIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET CRIME HEREIN. IN CASE OF ANY CONFLICT AMONG THESE UDERIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE OTTY ENDREEVILUS SET CRIME SET THE OTTY ENGREER. GENERAL PROVISIONS OF THE CONTACTOR SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE OTTY ENDREEVILUS SET CRIME SET THE OTTY ENGREER. GENERAL PROVISIONS OF THE CONTACTOR SHALL CAREFULLY PRESERVE BY THE OTO AND OTTY OF COLUMBUS GENERAL PROVISIONS OF THE CONTACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORRER, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORRER, OR SURVEY MARKED DAMAGED OR DISURBED BY THE DEEMMARKES, THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORRER, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORRER, OR SURVEY MARKED DAMAGED OR DISURBED BY THE DOWNED THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORRER, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORRER, OR SURVEY MARKED DAMAGED OR DISURBED BY THE DOWNED THE CONTRACTOR NALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY OF RECENTIONS DEFENDING THE CONTRACTOR AND DAY AND ALL SUBCONTRACTOR SHALL BE SOLELY REPORTING THE DATA DAY RECOMMENDES, THE CONTRACTOR SHALL CAREFULLY REPORTS THE DEPENDING THE DAY OF DATA DAY DEFENDING SUBLY OF THE CONTRACTOR SHALL DESCRETION OF THE CONTRACTOR TO INTITUTE. MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, FARLE DE GREVE TO THE CITY UPON REPLICATION OF THE EXPENSION OF THE DAY OF ALL CER PROVIDENT AND LOCARE TO THE CITY THE CONTRACTOR ON THE PLEASES, AND DIFFETIONS HEART THE CONTRACTOR SHALL BE OTHER TO WORK REQUIREMINTS AND DOXERMENT FEES LICENSS, AND DIFFETIONS EXERCILE UNTO A DIAL CONTRECTON OF THE REPORT REPORTS. DUTSE OF THE CITY OF BERLEY CORPORATE LUNTS WHERE SHOWN ON THE PLACE. THE OWNER CONTRECTON STRUCTION CONTRECTON STRUCTION CONTRECTON STRUCTION CONTRERENCE OF REPORTS	NOTIFY THE UTILITY ON THE CONTRACTOR SHA	WNER AND THE CITY. LL NOTIFY THE OHIO UTILI	TIES PROTECTION SERVICE (OUPS)	AT (1–800–362–2764) AT LEAST	FREDERI ST. CHARLES PID: 2
THESE FLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIPED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONTRUCT AURON THESE DENTRED TECHNICAL SPECIFICATIONS, THE CREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETREMISED ENTITIES TO ENTITIES OF CONTRUCT AND THESE DESCENDENCE (AS DETREMISED BY THE SOLE DISCRETION OF THE COT AND THESE PRECEDENCE (AS DETREMISED BY THE SOLE DISCRETION OF THE COT AND THESE PRECEDENCE (AS DETREMISED BY THE SOLE DISCRETION OF THE COT AND THESE PRECEDENCE (AS DETREMISED BY THE SOLE DISCRETION OF THE COT AND THE COT AND THE OT Y COLUMBUS CWS AS MODIFED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY DIMITED TO DIVISION 100 OF THE COD T AND CITY OF COLUMBUS CWS. AS MODIFED ALL EXACTIONS SECTION SECTION SECTION AD LOG 'ASPHALT BINDER PRICE ADJUSTMENT' OF THE CODT CAS. AND SECTIONAL CAREFULLY PRESERVE BENCHMARKS, REPERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, CRETERING CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, THE CONTRACTOR SHALL CAREFULLY REQUIREMENTS, TOCTHER WITH DESERVE PROPERTY. CONTRACTOR SHALL CAREFULLY REQUIREMENTS, TOCTHER WITH ADDUSTACTOR SHALL BE SOLELY REQUIREMENTS, TOCTHER WITH ADDUST ADDUST SHALL BE SOLELY REQUIREMENTS, THE CONTRACTOR SHALL CAREFULLY REQUIREMENTS, TOCTHER WITH ADDUSTES) AND PROPERTY. LIT IS ADS SOLELYTHE REQUIREMENTS, THE CONTRACTOR SHALL BE SOLELY REPORTING TO MUTATE, MANTAN, AND SUPERVISE ALL SAFETY REQUIREMENTS, THE CONTRACTOR SHALL SCHERE NORMALE ON THE WORK. CONTRACTOR SHALL SCHERE SHOWING IN CONNECTION WITH THE WARK. CONTRACTOR SHALL SCHERE THE REPORTING TO MENTATION STATES. THE CONTRACTOR SHALL SCHERE AND PAY FOR ALL PERSINS NO DOWERNMENT FEEL UNDERSA AND BUSECTION, RESTING, CONTRED OR STAKE CONTRACTOR SHALL SCHERE WORK REQUIRING IN SPECTION RESTING, CONTRED AND SHOW TO SHAL BOTTY THE CONTRACTOR SHALL SCHERE HOR REQUIRING AND COMPLETION OF THE WORK CONTRACTOR SHALL BOTTY THE OTTY DOWNER AND AND ADD ADD COMPLETION OF THE MORTAL SCHERE AND ADD ADD ADD ADD A	BEEN SHOWN ON THE UNDERGROUND UTILITY CITY OF BEXLEY AND UNDERGROUND FACILIT	APPROVED CONSTRUCTION AS REQUIRED BY SECTION THE ENGINEER ASSUME NO IES SHOWN ON THE APPRO	DRAWINGS AS ACCURATELY AS PR N 153.64 OR SECTION 3781.27 OF T O RESPONSIBILITY FOR THE ACCURAG OVED CONSTRUCTION DRAWINGS.	OVIDED BY THE OWNER OF THE THE OHIO REVISED CODE. THE CY OF LOCATIONS OR DEPTHS OF HEN UNKNOWN OR INCORRECTLY	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR THE HORINAL CASE OF ANY CONFLICT AMOUNT ENDE THE DETECHNICAL SPECIFICATIONS, THE CORTIN CASE OF ANY CONFLICT AMOUNT ENDER DETERMINED BY THE SOLE DISCRETION OF THE COY ENGINEERN UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER (AS DETERMINED BY THE SOLE DISCRETION OF THE COY CASE. COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT INCEESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND THE COTY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT INCEESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND GITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT INCEESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND GITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT INCEESSARILY LIMITED TO DIVISION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE COOT CAS. ELEVATION DATUME, ELEVATION SHOW ON THESE PLANS ARE BASED ON NAVD 88 DATUM. ENCOMPLETING, AND STAKES. ANY BENCHMARK, PROPERTY CORNERS, REPERCIDE DO THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLETING, WITH ALL FEDERAL, STATE, AND LOCA SHETY REQUIREMENTS, TOGETHERE MITH EXERCISING PRECAUTIONS AND STAKES. AND BROCHARTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLETING WITH ALL FEDERAL, STATE, AND COMPLETION WITH THE WORK. SAFETY REQUIREMENTS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIRING AS PERMIT. COPY OF ALL CES PREMITS SHALL BE GENELY FREQUENDING TOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE WORK. CONNELLYS AND PROCEASING ON THE PLANS. NOTERCATOR SHALL BE COURT AND AND COMPLETION ON THE WORK. CONNELIENT SHALL BE GOVEN TO THE CITY ENGINEER AS LEAST 48 HOURS IN ADVANCE (HOULDAYS AND EXCENTING THE ROTHER SHOWN IN AND COMPLETION OF THE MOTICE. HELD. THE CONTRACTOR SHALL NOTIFY THE GITY ENGINEER AS LEAST 48 HOURS IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL DOCOMINATE WITH GITY FOR A SUGGESTED FORMAT	THE EXCEPTION BEING FOR THIS INFORMATION	LINING OPERATIONS. CERT. I, REFER TO THE TRAFFIC	AIN STREET INTERSECTIONS MAY HANN NOTES, THIS SHEET.	AVE WORKING HOUR RESTRICTIONS;	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN IN CASE OF ANY CONFLICT AND/ONG THESE DEDIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENOMERN UNLESS DIRECTED OTHERMSE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODD T AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE CODT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODD C MS. <b>ELEVATION DATUME</b> . ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVO 88 DATUM. <b>ENCIMARYS:</b> 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. SAFETY REQUIREMENTS. THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND DICAL SAFETY REQUIREMENTS. TO CETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALLS SOLELY THE REGOURBEMENTS FOR "CONFINCTOR SHALL BE SOLELY REQUIRING AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. <b>OMENNED SPACE ENTRY</b> . THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIREMENTS FOR "CONFINCTOR SHALL BE COULENT AND COMPLETION ON THE INFORMED SPACE REQUIRING A PERMIT. COPY OF ALL CSE PREMITS SHALL BE GIVEN TO THE CITY UPON PROJECT COMPLETION. <b>PERMITS:</b> THE CONTRACTOR SHALL BECURE AND PROJECT COMPLETION OF THE IMPROVEMENTS OUTSIDE OF THE DITY OF BERLEY CORFORATE LIMITS WHERE SHOWN ON THE PLANS. <b>NOTIFICATION:</b> THE CONTRACTOR SHALL DECONDUCTION CONFERENCES, AND DINSECTIONS EXCLUDED) OF THE ANTICIPATED START OF WORK REQUIRING	SHALL BE COMMENCED				
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS. <b>ELEVATION DATUM:</b> ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM. <b>BENCHMARKS.</b> THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORRES, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESET BY AN OTHOR REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE. SAFETY REQUIREMENTS. THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOCETHER WITH EXERCISING PRECAUTIONS AT ALL THERE FOR THE PROTECTION OF PERSONS IN CONNECTION WITH THE WORK. <b>CONFINCTOR SHALL BE CREETE</b> BY AN OTHOR REGISTERED FOR FOLLOWING THE OSHAN REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. <b>CONFINCTOR SHALL BE CREW TO THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR</b> COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOCETHER WITH EXERCISING PRECAUTIONS AT ALL THEOR FOR THE PROFECTION TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. <b>CONFINCTOR SHALL BE GUENE ONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR</b> COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIRING A PERMIT. COPY OF ALL CSE FERMITS SHALL BE GUENE ON THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFICUTIONS, SHE ANY MARHO	THE CITY ENGINEER. W THE CONTRACTOR SHA	ORK SHALL NOT COMMENC	CE UNTIL A PRE-CONSTRUCTION COL LANDOWNERS A MINIMUM OF ONE V	NFERENCE IS HELD. WEEK IN ADVANCE OF WORK NEAR	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. CENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS. ELEVATION DATUM: ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM. BENCHMARKS: THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, AND STAKES. ANY BENCHMARK, PROPERTY CORNER, OR SURVEY MARKER DAMAGED OR DISTUREED BY THE CONTRACTOR SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE. SAFETY REQUIREMENTS: THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR'S 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 SOLELY THE RESPONSIBILITY OF THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE AND SUPERVISE ANL DSUPERVISE AND SUBCENTRACTOR NOT AND SUBCENTRACTOR TO BUT AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. CONFINED SPACE ENTRY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE CONFINED SPACE REQUIRING A PERMIT. COPY OF ALL CSE PERMITS SHALL BE GIVEN TO THE CITY UPON PROJECT COMPLIETION. PERMITS: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHAA REQUIREMENTS FOR "CONFINED SPACE ENTRY" (CSE), TITLE #290 OF THE FEDERAL REQUIRING A PERMIT. COPY OF ALL CSE PERMITS SHALL BE GIVEN TO THE CITY UPON PROJECT COMPLEITION.	CITY OF BEXLEY CORP	ORATE LIMITS WHERE SHOW	WN ON THE PLANS. THE CITY ENGINEER AT LEAST 48 F	IOURS IN ADVANCE (HOLIDAYS	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS. <b>ELEVATION DATUM:</b> ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM. <b>BENCHMARKS:</b> 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. <b>SAFETY REQUIREMENTS:</b> THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOCETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND AND AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOCETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. <b>CONFINED SPACE ENTRY.</b> THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA	1910.146, WHILE PERFO OF ALL CSE PERMITS	ORMING WORK INSIDE ANY I SHALL BE GIVEN TO THE C	MAŃHOLE OR OTHER CONFINED SPA CITY UPON PROJECT COMPLETION.	CE REQUIRING A PERMIT. COPY	A A A A A A A A A A A A A A A A A A A
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS. ELEVATION DATUM: ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM. 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. SAFETY REQUIREMENTS: THE CONTRACTOR AND ANY AND ALL SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR	AT ALL TIMES FOR TH RESPONSIBILITY OF THI REQUIREMENTS, PRECA	E PROTECTION OF PERSONS E CONTRACTOR AND SUBCO UTIONS, AND PROGRAMS IN	IS (INCLUDING EMPLOYEES) AND PRO ONTRACTOR TO INITIATE, MAINTAIN, N CONNECTION WITH THE WORK.	OPERTY. IT IS ALSO SOLELY THE AND SUPERVISE ALL SAFETY	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF THE ODOT CMS. ELEVATION DATUM: ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 88 DATUM.	POINTS, AND STAKES. CONTRACTOR SHALL B SAFETY REQUIREMENTS	ANY BENCHMARK, PROPE E RESET BY AN OHIO REGI : THE CONTRACTOR AND	TTY CORNER, OR SURVEY MARKER ISTERED SURVEYOR AT THE CONTRA ANY AND ALL SUBCONTRACTOR SHA	DAMAGED OR DISTURBED BY THE ACTOR'S EXPENSE. ALL BE SOLELY RESPONSIBLE FOR	
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION OF THE CITY ENGINEER) UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. GENERAL PROVISIONS OF THE ODOT AND THE CITY OF COLUMBUS CMS AS MODIFIED HEREIN SHALL NOT APPLY. THIS EXCLUSION INCLUDES BUT IS NOT NECESSARILY LIMITED TO DIVISION 100 OF THE ODOT AND CITY OF COLUMBUS CMS. ALSO SPECIFICALLY EXCLUDED IS SPECIFICATION SECTION 401.20 "ASPHALT BINDER PRICE ADJUSTMENT" OF	ELEVATION DATUM: EL				
THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. IN CASE OF ANY CONFLICT AMONG THESE IDENTIFIED TECHNICAL SPECIFICATIONS, THE GREATER REQUIREMENT SHALL TAKE PRECEDENCE (AS DETERMINED BY THE SOLE DISCRETION	GENERAL PROVISIONS EXCLUSION INCLUDES E CMS. ALSO SPECIFICAL	ク OF THE ODOT AND THE CI BUT IS NOT NECESSARILY L	TY OF COLUMBUS CMS AS MODIFIED LIMITED TO DIVISION 100 OF THE OE	DOT AND CITY OF COLUMBUS	
"CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC AND ODOT CMS RESPECTIVELY) TOGETHER WITH THE REQUIREMENTS OF THE CITY OF BEXLEY, OHIO, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF	CONSTRUCTION AND M REQUIREMENTS OF THE THE CONTRACT SHALL THESE PLANS EXCEPT CONSTRUCTION DETAILS SPECIFICATIONS, THE C	ATERIAL SPECIFICATIONS" CITY OF BEXLEY, OHIO, IN GOVERN ALL MATERIALS A AS SUCH SPECIFICATIONS S SET FORTH HEREIN. IN C GREATER REQUIREMENT SHA	(CMSC AND ODOT CMS RESPECTIVE NCLUDING ALL SUPPLEMENTS THERE AND WORKMANSHIP INVOLVED IN TH ARE MODIFIED BY THE FOLLOWING CASE OF ANY CONFLICT AMONG THE ALL TAKE PRECEDENCE (AS DETERM	LY) TOGETHER WITH THE TO, IN FORCE ON THE DATE OF E IMPROVEMENTS SHOWN ON SPECIFICATIONS, OR BY THE ESE IDENTIFIED TECHNICAL	ST. CH
SPECIFICATIONS: THE CURRENT CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION (ODOT)	SPECIFICATIONS: THE	CURRENT CITY OF COLUME	BUS AND OHIO DEPARTMENT OF TRA	ANSPORTATION (ODOT)	SIT

PROJECT #

# **CITY OF BEXLEY** OHIO SITE DEVELOPMENT PLAN For T. CHARLES PREPARATORY SCHOOL 2020

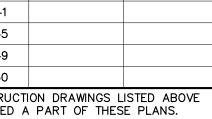


SCALE: 1" = 100'

SHEET INDEX

GS	TITLE
CITY OF BEXLEY	GENERAL NOTES
	EXISTING CONDITION

EXISTING CONDITIONS PLAN 3
SWPPP 4
SITE GRADING PLAN 5
SITE LAYOUT AND UTILITY PLAN6
DETAILS 7
STORM SEWER PROFILES 8
LANDSCAPE PLAN9



IMINARY FOR RUCTION 06-26-20

DATE

ID.

BM 1

BM 2

NORTHING

HC1 717782.37

HC2 717511.84

MAYOR DATE DATE DIRECTOR OF PUBLIC SERVICE CITY ENGINEER DATE SHEET NO.



# LOCATION MAP Not To Scale

SITE DATA TABLE:	
TOTAL SITE AREA (PRIVATE):	20.11 Ac.
TOTAL DISTURBED AREA:	0.94 Ac.
TOTAL DISTURBED AREA (OFF-SITE):	0.00 Ac.
PRE-DEVELOPED IMPERVIOUS AREA:	9.12 Ac.
POST-DEVELOPED IMPERVIOUS AREA:	9.56 Ac.

## MISCELLANEOUS NOTES

UTILITIES: UTILITIES SHOWN IN THIS PLAN SET ARE AS TAKEN FROM OUPS MARKINGS, EXISTING RECORD MAPS AND OTHER INFORMATION MADE AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE N THE BASE BID ALLOWANCES TO DETERMINE XISTING UTILITY LOCATIONS AND EXACT ROUTING

	<b>BENCHMARKS</b>
ELEVATION	DESCRIPTION
-	_
_	-

NOTE: ALL BENCHMARKS AND ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD88) UNLESS OTHERWISE NOTED.

HORIZONTAL CONTROL					
EASTING	ELEVATION	DESCRIPTION			
1843377.02	753.70	3/4" ID IRON PIN FOUND			
843382.14 753.04 3/4" IRON PIN FOUND IN CONCRETE					
	ONTAL DATIM. NAD83 (NSPS 2011 AD L)				

OHIO SOUTH ZONE) HORIZONTAL DATUM: NAD83 (NSRS 2011 ADJ.)

# SUMMARY OF POST-CONSTRUCTION STORMWATER

CONTROL FACITILITES - (BMPs REQUIRED)							
CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	PLAN VIEW & DETAILS PAGE NUMBERS FOR BMP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (AC.)	Facility type	GREEN INFRASTRUTURE (S.F.)		
MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8)	5, 6, 7, 8	FLOOD CONTROL	0.78 Ac.	ORIFICE PLATE/ UG DETENTION	N/A		
MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8)	5, 6, 7, 8	FLOOD CONTROL	1.14 Ac.	ORIFICE PLATE/ UG DETENTION	N/A		

100-YR PONDING DATA						
STR. ID	MAX. PONDING/ SPILLOVER ELEV. (FT)	100 YEAR PONDING STORAGE REQUIRED (CF)	100 YEAR PONDING ELEVATION (FT)	100 YEAR PONDING STORAGE PROVIDED (CF)		
MH NO. 2 (AA-S102, MOD.) (DETAIL, SHEET 8)	756.45	4,211	754.35	4,332		
MH NO. 5 (AA-S102, MOD.) (DETAIL, SHEET 8)	755.50	4,831	755.50	4,831		
	SITE	9,042		9,163		

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND THE GENERAL LOCATION OF THIS PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

# CITY OF BEXLEY APPROVALS

DATE: 06-26-20

9

CONTRACT WORK PERFORMED BY THE CITY: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 at the Rate of 2.5 times the actual cost of labor, materials and equipment necessary to perform such work. The City shall be reimbursed by the Contractor by way of a deduction from the Contractor's net payment under the Contract.REVISIONSDATEBYCHK.	shall be included in the price bid for the various sewer iter <u>REPLACEMENT OF DRAIN TILES AND STORM SEWERS:</u> All dro damaged, disturbed, or removed as a result of the Contrac replaced with the same quality pipe or better, maintaining Replaced drain tile shall be laid on compacted bedding equ stratum. Replacement shall be done at the time of the b work to be included in the price bid for the various items.
of the streets, roadways and permanent easements, as shown on these plans. The Contractor is responsible for cost of restoration for any area outside of the right—of—way or permanent easement to former condition and to the satisfaction of the Property Owner.	The Contractor shall convey all trench water to a natural of without damage to property. The Contractor shall be resp the necessary sediment control measures to filter the dewo above shall be included in the bid price for the sanitary se The cost of any dewatering operations required for the cor
construction of the work being secured and submitted to the City of Bexley for recording prior to commencement of the work, and no work which requires an easement will be allowed to proceed until this has been done. <u>WORK LIMITS:</u> The Contractor is responsible for containing all performed work and all equipment, materials, vehicles, etc., used to complete the work within the rights-of-way	The Contractor shall furnish and operate suitable pumping adequate to dewater the trench, should water be encounte sufficiently dewatered so that the placement of bedding an is made on firm, dry ground. If dewatering cannot produce only as directed by the Engineer, unsuitable materials shall CMSC Item 906, stone foundation.
<b><u>RIGHTS-OF-WAY:</u></b> 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, 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 unless specific provision is made in the contract specifications for such cost under specific Items of the contract. <b>EASEMENTS:</b> Approval of this plan is contingent on all easements required for the	any well, well point, pit or other device used for the purpo from an aquifer, in accordance with Sections 1521.01 and Code. In addition, any such facility that has a capacity to in an amount greater than 100,000 gallons per day from o by the Contractor with the Chief of the O.D.N.R., Division o the completion of the facility in accordance with Section 1 Code. Copies of the necessary paperwork can be obtained Fountain Square, Columbus, OH, 43224-1387 - (614) 265-
<u>SUBSURFACE SOIL DATA:</u> Subsurface investigations were not taken by the Engineer. It is the responsibility of the Contractor to make his own investigations of subsurface conditions prior to submitting his proposal. Any performance of site subsurface investigations (test holes) shall be coordinated in advance with the City and other bidders will be allowed to observe. Excavated material shall be replaced in a controlled manner to minimize impact on field earthwork.	Installation of any well, well point, pit or other device used the groundwater level to facilitate construction of this proj in the provisions of Section 3745-9-10 of the Ohio Admin the Director or his representatives. The Contractor shall be required to complete and file a We Form with O.D.N.R., Division of Water, within 30 days of the
provided for in the specifications or special provisions for which no specific method of payment is provided, shall be performed by the Contractor and the costs included 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.	October 1st. <u>DEWATERING</u> : The Contractor is solely responsible to the C Resources (O.D.N.R.) for registry, maintenance, and abandon used in the construction of this project.
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 pre-approved by the City. <u>MISCELLANEOUS WORK:</u> 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	fertilizer, and mulch shall be placed within 5 working days and fertilizer mixes shall be as specified by the City and s manufacturer's recommendations. The starter-fertilizer mix 3% Siduron, to prevent weed establishment. No weeds or accepted in the final inspection. If the initial seeding is m September 15th, the Contractor shall re-seed, fertilize, and
hydrant permit prior to connection of their water supply lines to any fire hydrant. The Contractor shall provide all the necessary gate valves, back flow preventers, and flow meter for each hydrant location. All equipment, fittings, and valves shall be in accordance with City of Bexley Standards. The Contractor shall pay for water at the current City Rates. INTERRUPTION OF WATER SERVICE: The Contractor shall give written notice to all affected	STANDARD TOPSOIL, SEEDING, FERTILIZER, AND MULCHING: A quality and free of all stones, trash and other deleterious Organic content shall be tested by an approved lab and ce by weight, and all topsoil shall be saturated with water and seeding. Settled areas shall be refilled and saturated agai shall match all existing landscape and any improvements c Contractor shall scarify the soil surface to open the soil p
Grades and elevations shown on the plans shall not be revised under any circumstances without first obtaining written approval from the Engineer. Invert elevations shall not deviate from plan elevations by more than 0.05'. Failing to meet the above requirements is cause for rejection of the affected section of sewer. <u>CITY WATER:</u> The Contractor must obtain from the City of Bexley Water Department a fire	pruning shall be included in the price bid for CMSC Item 2 extra payment shall be made. Trees damaged or destroyed that were not designated for Engineer for removal shall be replaced at the Contractor's
If it is determined that the proposed sewer will intersect an existing sewer or underground utility if constructed as shown on the plan, the Engineer shall be notified before starting construction of any portion of the proposed sewer, which would be affected by the interference with an existing facility.	with prior approval from the Engineer and City's Urban For and methods employed shall meet the approval of the Eng The branches shall be removed with a good clean cut mac or if having a good healthy lateral branch, the cut shall be close to and beyond the healthy branch. All pruning cuts accepted pruning preservation. The cost of all work and e
<u>GRADE CHANGES:</u> 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 Engineer shall be notified before starting construction of any portion of the proposed sewer, which will be affected by the variance in the existing elevations.	advance of such work and a release will be provided from by case basis. All exposed roots shall be neatly cut and roots shall be inspected by the City's Urban Forester prior <u><b>PRUNING:</b></u> Branches or growth which interferes with the free may be removed from trees/bushes that are to be saved
<ul> <li>These checks will be performed to ensure the following:</li> <li>Proper placement of each structure.</li> <li>Proper installation of initial runs of pipe from a structure.</li> <li>Grade, after an overnight or longer shutdown.</li> <li>Grade, at any other time the inspector has reason to question grade of installation.</li> <li>A grade check performed by the City Inspector in no way relieves the Contractor for the ultimate responsibility to ensure construction to the plan grade.</li> </ul>	tree dies as a result of damages, then money retained sho replace the tree. If the tree survives two years past the contract then funds will be released. The City's Urban For report and photographic evidence to support his findings to damaged tree may be removed and replaced anytime prior Forester's sole discretion. If the Contractor believes that h required by the Contract without damaging the street tree,
<u>GRADE CHECKS</u> : The Contractor shall ensure there is a surveyor's level and rod on the project for use in performing grade checks whenever any structures or pipe are being installed. The Contractor shall make this equipment available for the use of and assist the City Inspector in performing grade checks when requested by the inspector. The inspector will make all reasonable attempts to confine requests for assistance in performing grade checks to a time convenient to the Contractor.	features disturbed or damaged during construction whether their original location and condition and to the satisfaction to be included in the price bid for the various items. <u>PROTECTION OF STREET TREES:</u> The City of Bexley has been USA" for its' outstanding street tree resources. The Contr to prevent damage to existing street trees. Any damages cause City to retain \$1,000 per occurrence for a period no
or broken, the lines are to be restored to the standards of the utility owner at the Contractor's expense. <u>SITE VISIT:</u> The Contractor shall perform field reconnaissance to become acquainted with the existing site conditions and the potential effects upon the scope of work.	special circumstances are involved. Granting of exceptions damage must be repaired by the Contractor to the satisfor <u>SIGNS, MAILBOXES, FENCES, ETC.</u> The Contractor shall be signs, mailboxes, fences, guardrail, shrubs, property, draina
Engineer. <u>HOUSE SERVICE LINES:</u> The Contractor shall assume that each house has at least one water and one gas service line unless more are marked by the utility company. It is the Contractor's responsibility to locate and support these service lines. Cost for location and support shall be included in the cost bid for various items. Where service lines are cut	collection date each week prior to starting work and be refoot wide clear area for trash can placement in the front service in the construction area on the designated trash on <u>NON-RUBBER TIRED VEHICLES</u> . No non-rubber tired vehicles streets. Exceptions may be granted by the City of Bexley
and storm sewer if a specific bid item is not provided in the estimate of quantities. <u>CONFLICTS:</u> In all conflicts in grades between the water main and gravity sewers, the water main shall be lowered during construction, unless otherwise directed by the City	requirements. The Contractor shall restore mail boxes to location. Cost to be included in the price bid for the variant <b>TRASH COLLECTION SERVICE:</b> The Contractor shall contact
<b>EXPOSE EXISTING UTILITY:</b> Where potential grade and alignment conflicts might occur with existing utilities, or as specifically called out on the plans (these locations are noted thus: <b>EXPOSE</b> , the Contractor shall expose utilities or structure sufficiently in advance of laying pipe for the Engineer to verify the vertical and horizontal effect on the proposed construction. Any discrepancy to the plans shall be coordinated with the City Engineer to ensure that there are no construction or conflict issues associated with existing utilities. The cost of this work shall be included in the unit price bid for the proposed waterline	CONVENIENCE FACILITIES: The Contractor shall furnish and facilities for the workmen and inspectors for the duration included in the price bid for the various items. MAIL SERVICE: The Contractor shall be responsible for mo construction area. Prior to disturbing any mail boxes, the Postal Authorities and shall temporarily relocate mail boxe

E.P. FERRIS & ASSOCIATES INC

shall furnish and maintain sanitary convenience for the duration of the work. Cost shall be

esponsible for maintaining mail service in the mail boxes, the Contractor shall contact the elocate mail boxes in accordance with Postal mail boxes to their original condition and bid for the various items.

ctor shall contact the City of Bexley for current g work and be responsible for maintaining a 20 nent in the front of each lot for trash collection lesignated trash day.

ubber tired vehicles shall be moved on City the City of Bexley where short distances and ting of exceptions must be in writing, and any tor to the satisfaction of the City of Bexley.

ontractor shall be responsible for restoring all property, drainage structures, or other physical nstruction whether shown on the plans or not to to the satisfaction of the property owner. Cost arious items.

Bexley has been designated as a "Tree City ources. The Contractor's cooperation is required es. Any damages to limbs, bark, roots, etc. shall ce for a period not to exceed two years. If the noney retained shall be used to remove and years past the final completion date of City's Urban Forester will provide a written ort his findings to document all damages. A ced anytime prior to the two years at the tor believes that he cannot perform the work g the street tree, he shall so notify the City in be provided from these requirements on a case neatly cut and trimmed prior to backfill. The oan Forester prior to backfill.

feres with the free construction of the project are to be saved by the use of pruning tools d City's Urban Forester. All pruning tools used proval of the Engineer and City's Urban Forester. ood clean cut made flush with the parent trunk the cut shall be a good clean slanting cut All pruning cuts shall be painted with an of all work and expenses connected with tree for CMSC Item 201, Clearing and Grubbing. No

ot designated for removal or approved by the the Contractor's expense.

AND MULCHING: All topsoil shall be of the highest other deleterious materials greater than  $\frac{1}{4}$ ". proved lab and certified to be between 10-20% ted with water and allowed to settle prior to nd saturated again prior to seeding. The grades improvements completed under this plan. The open the soil prior to seeding. All seeding, 5 working days of placing topsoil. The seeding by the City and shall be installed per the arter-fertilizer mix shall contain a minimum of t. No weeds or undesirable arasses will be nitial seeding is not 95% established by seed, fertilize, and mulch the bare areas prior to

sponsible to the Ohio Department of Natural ance, and abandonment of any withdrawal devices

other device used for the purpose of lowering uction of this project shall be properly abandoned of the Ohio Administrative Code or as directed by

plete and file a Well Loa and a Drilling Report nin 30 days of the completion of installation of sed for the purpose of removing groundwater ions 1521.01 and 1521.05 of the Ohio Revised has a capacity to withdraw waters of the State ns per day from all sources shall be registered D.D.N.R., Division of Water, within three months of ice with Section 1521.16 of the Ohio Revised can be obtained at O.D.N.R., Division of Water, 387 – (614) 265–6717.

suitable pumping equipment of such capacity, vater be encountered. The trench shall be ent of bedding and the lying and joining of pipe ing cannot produce acceptable subgrade, and ble materials shall be removed and replaced by

Iter to a natural drainage channel or storm sewer ctor shall be responsible to place and maintain to filter the dewatering discharge. Cost for the or the sanitary sewer improvements.

quired for the construction of the sanitary sewer various sewer items.

**SEWERS:** All drain tile and storm sewers ult of the Contractor's operations shall be etter, maintaining the same gradient as existing. acted bedding equal in density to surrounding the time of the backfill operation. Cost of this the various items.

MAINTAIN DRAINAGE: The flow in all sewers, drains, and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work, they shall be restored by the Contractor at his own cost and expense, unless specific provision is made within the Contract Documents for the measure of and payment for such cost specific items, to a condition satisfactory to the Engineer.

**INLET PROTECTION:** The Contractor is responsible to keep all storm sewer inlets protected from excessive amounts of sediments using adequate filtering devices as approved by the City.

**EROSION & SEDIMENTATION CONTROL:** The Contractor shall provide sediment control at all points where storm water runoff leaves the project including waterways, overland sheet flow, and storm sewers. Erosion and sediment control shall be provided as per the requirements of the City of Bexley and the Standards and Specifications of the "Rainwater and Land Development" manual of the ODNR.

Erosion control measures are to be installed per NPDES permit regulations or as directed by the City Engineer, and are to be maintained until such time that they are no longer required by the permit and the City Engineer. Cost for erosion and sedimentation control shall be included in the price bid for CMSC Item 207.

All land disturbing activities shall be subject to inspection and site investigation by the City of Bexley and/or the Ohio EPA. Failure to comply with these regulations is subject to legal enforcement action.

The Contractor is responsible to notify the City of Bexley 48 hours prior to commencement of initial site land disturbance on any site of one 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.

SOIL STOCKPILES: The Contractor shall be responsible for keeping all soil stockpiles, including trench excavation stockpiles, protected from erosion. The areas surrounding the stockpiles are to be protected from sediment with the use of perimeter control devices such as earth or straw bale devices or silt fences. These perimeter control devices shall be maintained for the duration of the project.

DISPOSAL OF EXCESS EXCAVATION: The Contractor shall dispose of all excess excavation at such location off the project site as approved by the Engineer. The Contractor shall provide a copy of the signed, written agreement between the Contractor and the off-site Landowner before such disposal occurs. This written agreement shall clearly state the purpose of the agreement and indicate the landowner's permission for such use.

**<u>CONSTRUCTION DEBRIS:</u>** The Contractor shall be responsible for the immediate cleanup of any debris, mud or dirt tracked or spilled on City and/or public streets or private drives whether inside or outside the project area. The Contractor is responsible for the cost of any services contracted and/or completed by the City of Bexley in the clean up of any tracking or spillage anytime during project construction. The Engineer may require the Contractor to perform weekly street and site clean up if excessive amounts of dirt and debris are left along the street. This may include removal by sweeping, power cleaning, or manual methods. The cost of this work shall be included in the various contract items, unless otherwise specified.

CLEAN UP: All debris, rubble, unusable materials, and items not salvaged by the Owner shall become the property of the Contractor and shall be removed from the site by the Contractor and disposed of properly.

MAINTENANCE OF TRAFFIC NOTES: All temporary traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the Ohio Manual of Traffic Control Devices for Construction and Maintenance Operations (current edition), copies of which are available from the Ohio Dept. of Transportation, Bureau of Traffic, 1980 West Broad St., Columbus, OH 43223.

Steady-burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night. Cones are NOT approved for use at night.

All trenches within the road right-of-way shall be backfilled or securely plated during non-working hours.

Access to all properties within the project area shall be maintained at all times.

Two-way, one-lane traffic shall be maintained during construction operations in accordance with page C-18 of the Ohio Manual. A uniformed officer may be substituted for each flagman shown on that page at the Contractor's expense.

Police Officers are not needed, unless a hazard develops, for two-way, one-lane traffic maintained during construction operations on all roadways within the project area. If a hazard develops, an officer may be assigned by the City to the project at the Contractor's expense.

All permanent traffic controls not in conflict with the temporary traffic controls shall be maintained through this project by the Contractor. Permanent traffic controls may be temporarily relocated by the Engineer. The Contractor shall assume all liability for missing, damaged, and improperly placed signs.

Any work done by the City, including installation, relocations, removal and/or replacement of permanent traffic control devices as a result of work done by the Contractor or as a result of the negligence of the Contractor shall be at the expense of the Contractor.

TRENCH BACKFILL: Trenches within the road right of way and/or pavement, including all sidewalks, are to be filled with Compacted Granular Backfill (ODOT No. 4 Aggregate or 304 Aggregate or approved equal). All other trenches can be filled and compacted as per native backfill compacted to a minimum of 95% standard proctor, unless otherwise shown on the plans.

COMPACTED GRANULAR BACKFILL: Shall be granular material, conforming to 703.01 No. 4 coarse aggregate or item 304, as directed by the Engineer compacted as stipulated in item 912.03. in all cases granular material shall be used around all manholes, structures and cleanouts.

Aggregate for bedding is No. 57 or No. 8, as per Item 703.

The excavated trench width twelve inches (12") above the conduit may be increased without extra compensation.

TRENCHES: All trenches shall be maintained as safe as possible by the Contractor at all times and backfilled as soon as practical. All trenches during non-working hours require traffic plates if not backfilled.

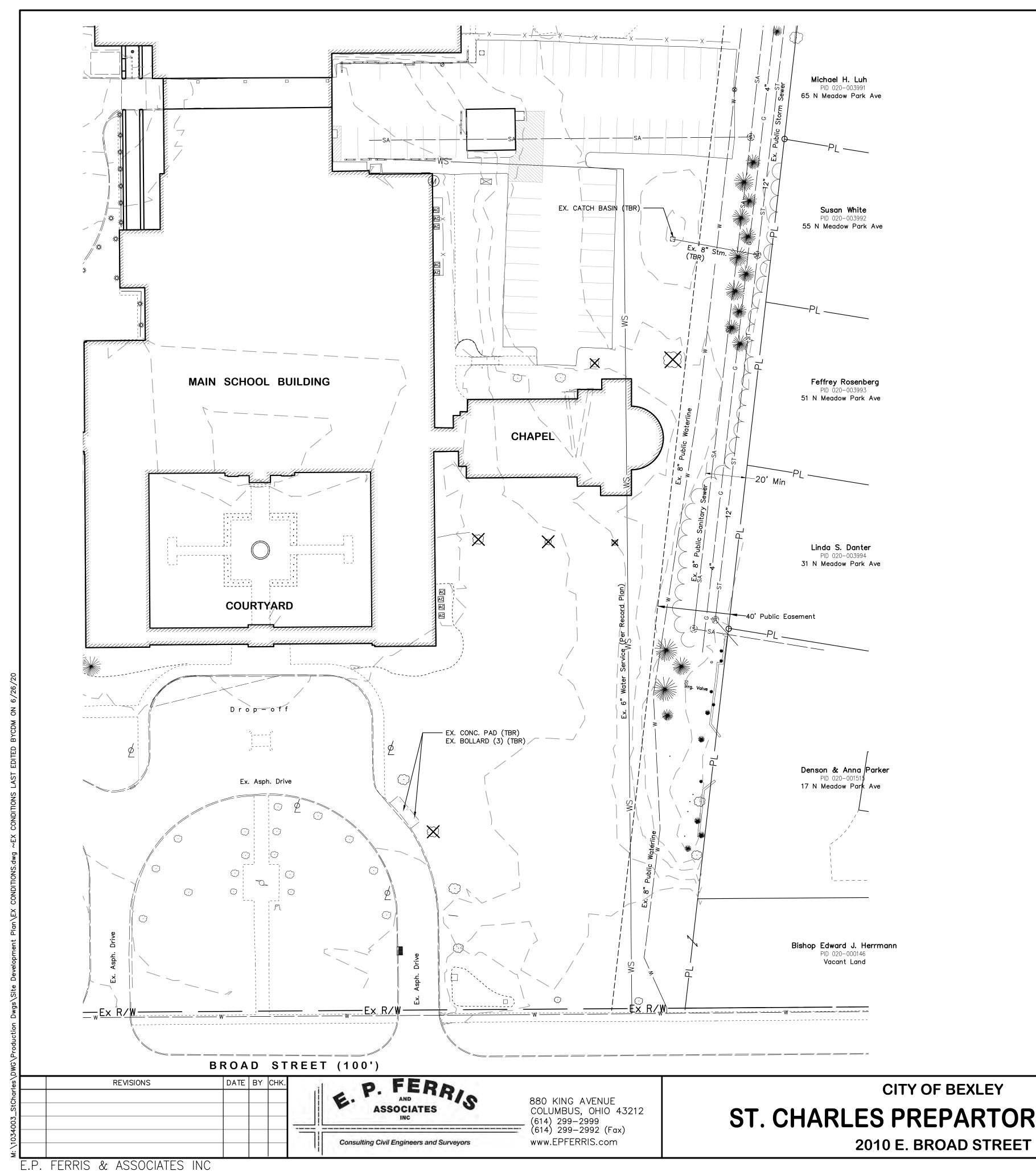
JMP         SU           69         SY           2         EA           47         LF           2         EA           15         SF           1         EA           515         LF           3         EA           1         EA	PAVEMENT REMOVED         CATCH BASIN REMOVED         PIPE REMOVED, 8"         BOLLARD REMOVED         CONCRETE PAD REMOVED         CONCRETE WASHOUT AREA         FILTER FABRIC FENCE         INLET PROTECTION
2 EA 47 LF 2 EA 15 SF 1 EA 515 LF 3 EA 1 EA	CATCH BASIN REMOVED PIPE REMOVED, 8" BOLLARD REMOVED CONCRETE PAD REMOVED CONCRETE WASHOUT AREA FILTER FABRIC FENCE INLET PROTECTION
47 LF 2 EA 15 SF 1 EA 515 LF 3 EA 1 EA	PIPE REMOVED, 8"         BOLLARD REMOVED         CONCRETE PAD REMOVED         CONCRETE WASHOUT AREA         FILTER FABRIC FENCE         INLET PROTECTION
2 EA 15 SF 1 EA 515 LF 3 EA 1 EA	BOLLARD REMOVED         CONCRETE PAD REMOVED         CONCRETE WASHOUT AREA         FILTER FABRIC FENCE         INLET PROTECTION
15 SF 1 EA 515 LF 3 EA 1 EA	CONCRETE PAD REMOVED CONCRETE WASHOUT AREA FILTER FABRIC FENCE INLET PROTECTION
1 EA 615 LF 3 EA 1 EA	CONCRETE WASHOUT AREA FILTER FABRIC FENCE INLET PROTECTION
515         LF           3         EA           1         EA	FILTER FABRIC FENCE INLET PROTECTION
3 EA 1 EA	INLET PROTECTION
1 EA	
	STABILIZED CONSTRUCTION ENTRANCE
	STADIEZED CONSTRUCTION ENTRANCE
355 LF	FULL DEPTH PAVEMENT SAWING
25 CY	PERMANENT PAVEMENT
52 GA	_ TACK COAT
05 CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, (448), PG64-22, 1-1/2"
29 CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (448), PG64-22, 1-1/2"
28 CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I, (448), PG64-22, 2-1/2"
1 EA	STANDARD CATCH BASIN (AA-S133B)
1 EA	MANHOLE, TYPE 'C' (AA-S102)
1 EA	MANHOLE, TYPE 'E' (AA-S104)
2 EA	STANDARD CURB & GUTTER INLET (AA-S125A)
1 EA	ORIFICE PLATE, 2.7" (AA-S145)
1 EA	ORIFICE PLATE, 6.5" (AA-S145)
015 LF	CURB, STRAIGHT 18"
512 LF	REMOVAL OF PAVEMENT MARKING
125 LF	PARKING LOT STALL MARKING
68 LF	TRANSVERSE LINES
45 LF	8" PIPE, ROOF DRAINS
75 LF	12" STORM PIPE, W/ TYPE I BEDDING
7 EA	CLEANOUT (DOWNSPOUTS)
1 LS	STORMTECH SC-470 UNDERGROUND DETENTION SYSTEM, COMPLETE
1 EA	DEBRIS SNOUT
	05         CY           29         CY           28         CY           1         EA           30         LF           015         LF           12         LF           68         LF           75         LF           7         EA           1         LS

	24" 24" erforated . Underdrain	Orient Axis with Major Pavement Drainage Swale
TRENCH DETAI Install specified lengths of 4" per underdrain at all structures with areas per the above detail. The to be installed at a 1.00% grade structure, with the upstream end underdrain shall be protected from	rforated P.V.C. in pavement underdrain is toward the d plugged. The	I LAYOUT DETAIL Subgrade drains are to be installed at all catch basins or inlets located in pavement. The exact configuration can be modified to fit width.
raffic after installation	SUBGRADE DRA	NN DETAIL
_	NOT TO SC	CALE

1034.003		SCALE:	
CDM			
CDM			
MEF	GENERAL NUTES	SHEET NO.	OF
		2	9
06-26-20			
	CDM CDM MEF	CDM CDM MEF GENERAL NOTES	CDM       GENERAL NOTES       SHEET NO.         MEF       2

**ST. CHARLES PREPARTORY SCHOOL** 2010 E. BROAD STREET

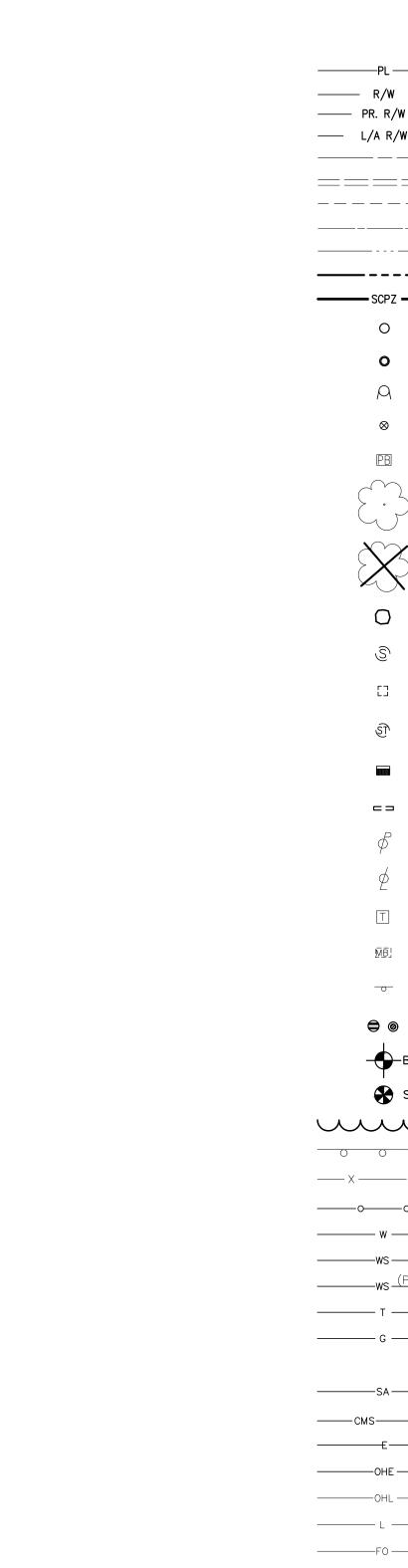
**CITY OF BEXLEY** 



E.P. FERRIS & ASSOCIATES INC







Ο

—WS -

—E—

-OHE

—OHL — L —

# LEGEND

	PROPERTY LINE		PR. CATCH BASIN
	EX. RIGHT-OF-WAY	æ	
ί₩ ——	PR. RIGHT-OF-WAY	<b>I</b>	PR. STORM MANHOLE
/w	LIMITED ACCESS RIGHT-OF-WAY ROADWAY CENTERLINE		PR. STORM CURB INLET
:	EDGE OF PAVEMENT/BACK OF CURB		PR. SANITARY MANHOLE
	EDGE OF DRIVEWAYS		PR. STORM SEWER
	EX CENTERLINE OF DITCH	ST	PR. DOWNSPOUT LINE
	MISC. EASEMENTS	DS	PR. SANITARY
	JURISDICTIONAL BOUNDARY	ss	PR. SANITARY SERVICE
	STREAM CORRIDOR PROTECTION ZONE		PR. WATER
	EX. IRON PIN FOUND		PR. WATER SERVICE
	EX. IRON PIPE FOUND	FS	PR. FIRE SERVICE
	EX. FIRE HYDRANT	G	PR. GAS LINE
	EX. WATER SERVICE VALVE	c	PR. TELECOM
		8	
	EX. PULL BOX	$\otimes$	PR. WATER VALVE
) )	EX. TREE	COo	PR. CLEAN-OUT
r			PR. FLOOD ROUTE
X			PR. DRAINAGE FLOW
$\mathbf{k}$	EX. TREE TO BE REMOVED		DIRECTIONAL ARROW
	EX. LANDSCAPE ROCK		PR. CONSTRUCTION LIMITS
	EX. LANDSCAFE RUCK	TBR	TO BE REMOVED
	EX. SANITARY MANHOLE	TBA	TO BE ABANDONED
	EX. CATCH BASIN	TBRL	TO BE RELOCATED
		ATG	ADJUST TO GRADE
	EX. STORM MANHOLE	DND	DO NOT DISTURB
	EX. STORM CURB INLET	AB	ABANDONED
		CL	CENTERLINE
	EX. HEADWALL	~	OWNERSHIP HOOK SYMBOL
	EX. UTILITY POLE		
	EX. LIGHT POLE		
	EX. UNDERGROUND TELEPHONE PEDESTAL		
	EX. MAILBOX		
	EX. SIGN		
)	EX. SURFACE DRAIN		
-B-#	EX. SOIL BORING		
SUE-#	EX. SUBSURFACE UTILITY EXPLORATION		
$\mathcal{N}$	EX. TREE LINE		
	EX. GUARDRAIL		
— X ——	EX. CHAIN LINK FENCE		
-0	EX. WOOD FENCE		
	EX. WATER LINE		
	EX. WATER SERVICE		
(PLAN)	EX. WATER SERVICE (LOCATION PER RECORD PLAN)		
	EX. UNDERGROUND TELEPHONE		
	EX. GAS		
	EX. STORM		
	EX SANITARY		
	EX COMBINED SEWER		
	EX. UNDERGROUND ELECTRIC		
	EX. OVERHEAD ELECTRIC		
	EX. OVERHEAD STREET LIGHTING		
	EX. UNDERGROUND STREET LIGHTING		
	EX. FIBER OPTIC		I

	1034.003	
	CDM	
	CDM	
	MEF	
;		
	06-26-20	

# **EXISTING CONDITIONS PLAN**

SCALE: 1" = 30' SHEET NO. OF 3 9

0 15 30

EROSION/SEDIMENT/DUST CONTROL CONSTRUCTION PRACTICES

UTILIZE EROSION AND SEDIMENT CONTROL PRACTICES PER THE SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL. EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL THE CONSTRUCTION AREA HAS BEEN PERMANENTLY STABILIZED. THE CONTRACTOR SHALL CONSULT WITH SOIL CONSERVATION SERVICE AND THE ENGINEER CONCERNING PROPER EROSION AND SEDIMENT PRACTICES.

STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.

FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.

REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION: PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.

BACKFILL TRENCHES IMMEDIATELY AFTER COMPACTION. SEED AND MULCH TRENCHES WITHIN TWO WEEKS AFTER TRENCHES ARE OPENED.

SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM, WATERWAYS (NATURAL OR MAN-MADE), OR ADJACENT PRIVATE PROPERTY CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS OR WATERWAYS (NATURAL OR MAN-MADE) SHALL REQUIRE EROSION CONTROL MEASURES, SUCH AS SILT FENCE AND STRAW BALE BARRIERS, TO PREVENT SILT FROM ENTERING THE STORM DRAIN, WATERWAYS (NATURAL OR MAN-MADE) OR ADJACENT PRIVATE PROPERTY.

ALL EROSION/SEDIMENT/DUST CONTROL PRACTICES SHALL BE PERFORMED AS RECOMMENDED BY THE SOIL CONSERVATION SERVICE PUBLICATION "ODNR'S RAINWATER AND LAND DEVELOPMENT MANUAL".

### STABILIZATION OF DENUDED AREAS

DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS OF DISTURBANCE IF THEY ARE TO REMAIN SUBSTANTIALLY UNWORKED FOR MORE THAN 14 DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WHICH WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS.

### SEDIMENT CONTROLS

STORM WATER RUNOFF FROM DENUDED AREAS SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

#### CONSTRUCTION ACCESS ROUTES

MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES, EQUIPMENT, AND WORKERS IS MINIMIZED.

#### SLOUGHING AND DUMPING

NO SOIL, ROCK, DEBRIS OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE ENGINEER. UNSTABLE SOILS PRONE TO SLIPPING OR LAND SLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE OR ADEQUATELY ADDRESS THE PROBLEMS.

#### NOTF

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

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP 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 THE OHIO EPA.

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.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE

MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR

POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) GENERAL PERMIT. INSPECTIONS

SHALL BE PERFORMED BY THE CONTRACTOR, IN THE PRESENCE OF THE ENGINEER ONCE

THAN 0.5 INCHES IN A 24 HOUR PERIOD. THESE INSPECTIONS SHALL IDENTIFY AREAS

CONTRIBUTING TO STORM WATER DISCHARGES ASSOCIATED WITH THE PROJECT; EVALUATE THE ADEQUACY, IMPLEMENTATION, AND MAINTENANCE OF EXISTING AND PROPOSED EROSION/

EVERY 7 CALENDAR DAYS AND/OR WITHIN 24 HOURS AFTER ANY RAIN EVENT OF GREATER

SEDIMENTATION MEASURES: AND DETERMINE WHETHER ADDITIONAL MEASURES ARE REQUIRED.

RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PLAN, A CERTIFICATION

THE OWNER SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF

RESPONSIBLE TO PERFORM ALL UPDATES AND AMENDMENTS TO THE POLLUTION PREVENTION

LAND DISTURBANCE AREAS LESS THAN ONE ACRE AND NOT PART OF A LARGER COMMON

PLAN OF DEVELOPMENT ARE NOT REQUIRED TO SUBMIT TO THE CITY OF COLUMBUS A FULL

SCALE EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL. HOWEVER, THE PROPOSED

LAND DISTURBING ACTIVITIES MUST COMPLY WITH ALL OF THE PROVISIONS OF THE DIVISION

DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE

OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATIONS. ALL LAND

CITY OF BEXLEY TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS.

FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT

DEVICES REQUIRED BY THE ENGINEER SHALL BE THE SOLE RESPONSIBILITY OF THE

CONTRACTOR. INSPECTION SHALL BE PERFORMED AS PRESCRIBED IN THE NATIONAL

ACCEPTABLE INSPECTION REPORTS SHALL BE PREPARED BY THE CONTRACTOR AND

AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION. MAJOR OBSERVATIONS

THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN, AND IDENTIFICATION OF ANY

THE POLLUTION PREVENTION PLAN ON-SITE. THE OWNER SHALL ALSO BE SOLELY

SUBMITTED TO THE ENGINEER, IF REQUESTED, WITHIN 48 HOURS OF INSPECTION COMPLETION. THE REPORT SHALL CONTAIN THE RESULTS OF THE INSPECTION, NAME(S)

POLLUTION PREVENTION PLAN AVAILABILITY AND UPDATES

INTENDED FUNCTION. MAINTENANCE AND INSPECTION OF ALL EROSION/SEDIMENT CONTROL

### MAINTENANCE AND INSPECTION

INCIDENTS OF NON-COMPLIANCE.

EROSION AND SEDIMENT CONTROL

PLAN.

ESTABLISHMENT OF PERMANENT VEGETATION

PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS. SEEDING AND MULCHING:

1. TEMPORARY SEEDING SHALL CONSIST OF ANNUAL RYE-GRASS AS PER ITEM 207. SEED AND MULCHING SHALL BE APPLIED IN ACCORDANCE WITH ITEM 659. 2. PERMANENT SEEDING AND MULCHING SHALL BE TREATED IN ACCORDANCE WITH ITEM 659. TIMING OF SEDIMENT-TRAPPING PRACTICES SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY. SETTLING FACILITIES, PERIMETER CONTROLS AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER. NOTE: LOCATIONS SHOWN FOR SEDIMENT FILTERING BARRIERS ARE SUGGESTED

LOCATIONS; THE FINAL AND MOST APPROPRIATE LOCATION FOR THESE DEVICES SHALL BE APPROVED BY THE ENGINEER, BASED ON SITE CONDITIONS AND OBSERVED TOPOGRAPHY. PROPER IMPLEMENTATION, INSTALLATION, MAINTENANCE, AND REPAIR OF SEDIMENT FILTERING BARRIERS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

#### OUTFLOWS FROM DEWATERING OPERATIONS

ALL WATER PRODUCED FROM CLEANING AND DEWATERING OPERATIONS, WHETHER SPECIFICALLY FROM TRENCH DEWATERING OPERATIONS OR FROM MORE EXTENSIVE DEWATERING OPERATIONS. SHALL BE DISCHARGED IN SUCH A MANNER AS TO ELIMINATE EROSION FROM SUCH A DISCHARGE BY DIVERTING THE WATER THROUGH ONE OR MORE FILTER FENCES. PRIOR TO PUMPING, THE ENGINEER SHALL APPROVE THE INSTALLATION OF THE FILTER FENCE.

#### ADDITIONAL CONTROLS

THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENTS ARE TRACKED OFF-SITE BY CONSTRUCTION EQUIPMENT, VEHICLES, AND WORKERS. THE CONTRACTOR SHALL ALSO ENSURE THAT NO OTHER SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE IS DISCHARGED INTO ANY STORM WATER FLOW.

## PROHIBITED CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEEDINGS, ACTIVITIES, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEDURES, ACTIVITIES, OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO:

- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
- INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY 2. STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
- PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM DRAINS.
- DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM. 5.
- DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY
- WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE ENGINEER FOR SAID PURPOSES.

GRATE BEAVER DAM TM LIFTING STRAPS
BEAVER DAM OVERFLOW GAP CURB & GUTTER
THE BEAVER DAM
INSTALLATION: STAND GRATE ON END. SLIDE THE BEAVER DAM BAG ON WITH DAM ON TOP OF THE GRATE. PULL ALL EXCESS DOWN. LAY UNIT ON ITS SIDE. CAREFULLY TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER. INSTALL THE UNIT MAKING SURE FRONT EDGE OF GRATE IS INSERTED IN FRAME FIRST THEN LOWER BACK INTO PLACE. PRESS VELCRO DOTS TOGETHER WHICH ARE LOCATED UNDER LIFTING STRAPS. THIS INSURES STRAPS REMAIN FLUSH WITH THE GUTTER.

TO BE USED ON STRUCTURE #'S: 3, 4

AC	IION BY THE C	літ.					
SIT	E CONTACT:	ST. CHARLES PREPARATORY 2010 E. BROAD STREET COLUMBUS, OHIO 43209 PHONE: 380–209–2222 CONTACT: JAMES LOWER EMAIL: JLOWER@SCPREP.ORG					
		REVISIONS	DATE	BY CHK.	E. P. FER	RIS	880 KING AVEN COLUMBUS, OH (614) 299–2999
					Consulting Civil Engineers and	d Surveyors	(614) 299–2992 www.EPFERRIS.c
E.P.	FERRIS	& ASSOCIATES IN		·			

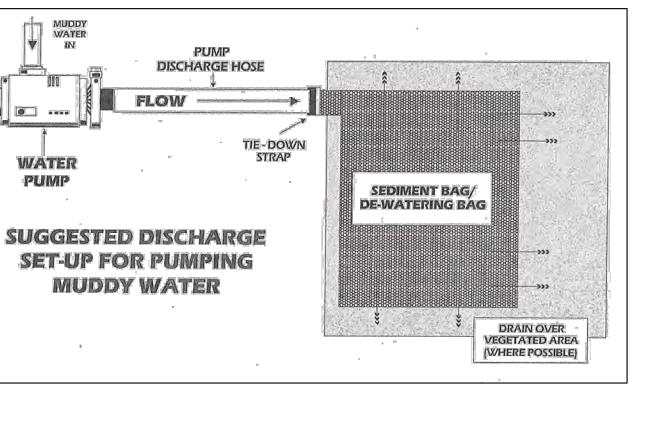
GUTTER INLET

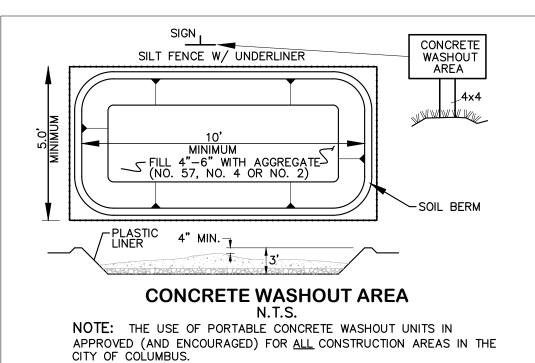
# **CITY OF BEXLEY**

2010 E. BROAD STREET

JOB NO. DESIGNED BY: CDM DRAWN BY: CHECKED BY: MEF APPROVED BY: \_\_\_\_ DATE:







DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AN PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL BELOW OF A TYPICAL SEDIMENT BAG INSTALLATION.

MUDDY WATER

IN

0 .....

WATER

PUMP

FLOW

SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERTY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRE ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.

ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES

NOTICE:

**ELEVATION** 

SILT FENCE

—10' MAX.—

LEVEL CONTOUR

– NO SLOPE -

\_\_\_\_\_\_

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL
- CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL
- BE PREVENTED FROM FLOWING AROUND THE ENDS.
- 4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF
- THE SILT FENCE 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16
- INCHES ABOVE THE ORIGINAL GROUND SURFACE. 7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER. CABLE LAYING
- MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT

WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH. 8. DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8

THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF

THE 6-INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED 2.

TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE GROUND, (SEE DETAILS). NOTE: 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

IN LINEAR INSTALLATIONS. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER PER OEPA REQUIREMENTS.

10. MAINTENANCE-SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

FLOW

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE SILT FENCE.

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

FLAT SLOPE IN

FRONT OF BARRIER

16" MIN.

SECTION

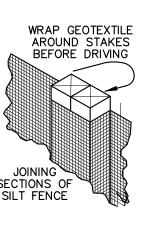
N.T.S.

FENCE POST - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2-IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS. THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER LOADING.

SILT FENCE EARRIC - SEE CHART BELOW

SILT FENCE FABRIC - SEE C	HART BELOW.	
FABRIC PROPERTIES	VALUES	TEST M
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM E
MAXIMUM ELONGATION AT 60 LBS	50%	astm [
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	astm e
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM [
APPARENT OPENING SIZE	0.84 MM	ASTM [
MINIMUM PERMITTIVITY	1X10-2 SEC1	ASTM [
UV EXPOSURE STRENGTH RETENTION	70%	ASTM (

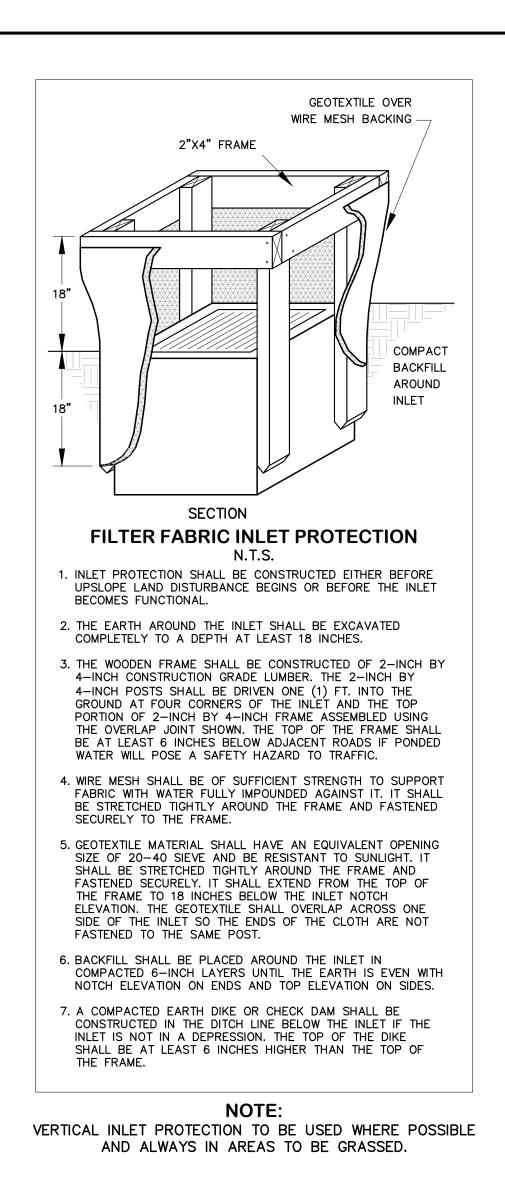


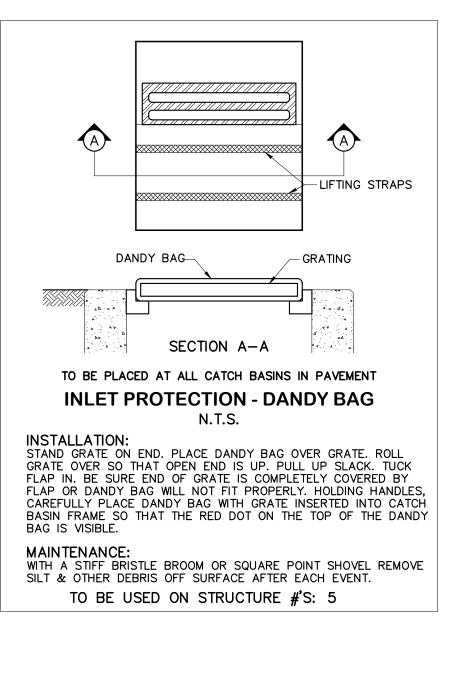


TRENCH TO BE BACKFILLED -AND COMPACTED

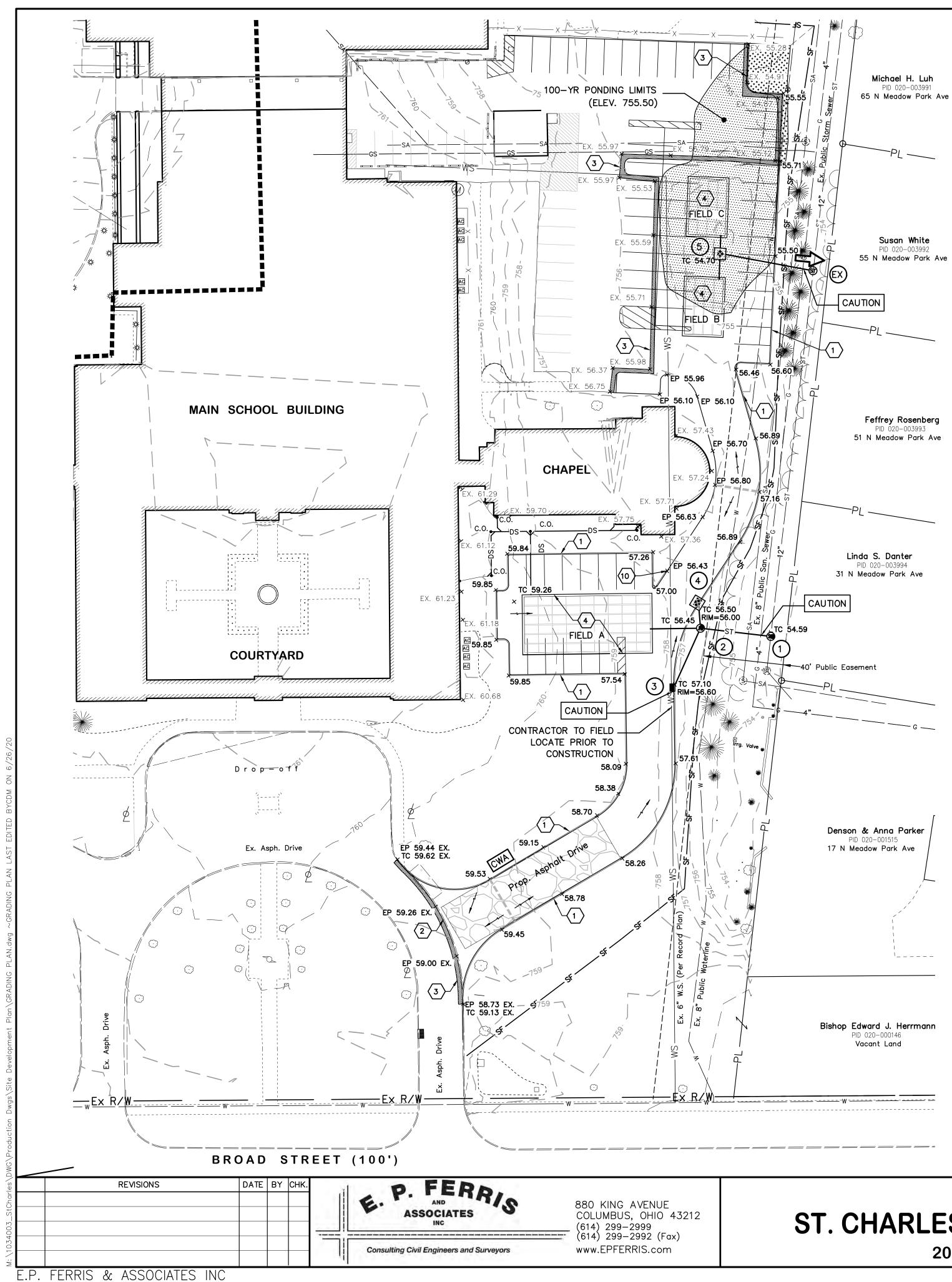
SECTIONS OF

E	THOD
)	4632
)	4632
)	4833
)	4533
)	4751
)	4491
5	4355





1034.003 SCALE: CDM SWPPP SHEET NO. 9 06-26-20



## **KEYED NOTES**

(1) PROP CURB (2) EXISTING CURB TO BE REMOVED **3** SAWCUT LINE 
 PROPOSED UNDERGROUND DETENTION SYSTEM

 (SEE SHEET 7 FOR DETAILS)
  $\langle 5 \rangle$  prop. 8" downspout @ 1.0% Min.  $\langle 6 \rangle$  PROP. CLEANOUT (FOR DOWNSPOUT)  $\langle 7 \rangle$  EX. CATCH BASIN TO BE REMOVED  $\langle 8 \rangle$  ex. 8" storm pipe to be removed **(9)** PROP. STRIPING  $\langle 10 \rangle$  TAPER CURB 6" TO 0" IN 5 FEET

# 

PROPOSED MAJOR FLOOD ROUTE (GREATER THAN 100-YR EVENT)

PROPOSED CONCRETE WALK/PAD

PROPOSED 100-YR PONDING LIMITS



-----

(ELEV. 755.50)

LEGEND

GRADE BREAK

EXISTING/PROPOSED FLOW DIRECTION ARROW

# SWPPP LEGEND



INLET PROTECTION

PR. SILT FENCE

CONCRETE WASHOUT AREA

CWA

STABILIZED CONSTRUCTION ENTRANCE (PER STD DWG 2230)

## NOTES:

1. ADD 700 FEET TO ALL SPOT ELEVATIONS FOR NAVD88 DATUM ELEVATONS.

2. ALL SPOT ELEVATIONS ALONG CURB REPRESENT TOP OF CURB ELEVATION UNLESS OTHERWISE NOTED.

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

4. **SUB-GRADE:** CONTRACTOR IS RESPONSIBLE FOR REVIEWING GEOTECHNICAL REPORT SPECIFIC TO THE PROJECT SITE AND FOLLOWING THE SITE PREPARATION RECOMMENDATIONS, INCLUDING THE REMOVAL AND MITIGATION OF UNSUITABLE MATERIAL. IF A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THE PROJECT SITE, CONTRACTOR SHALL TAKE ALL RISKS ASSOCIATED WITH SUBSURFACE FINDINGS. 5. FLOOD ZONE: X (FIRM MAP 39049C0327K)

STANDARD DUTY ASPHALT PAVEMENT BUILD-UP: 1.5" ITEM 448 SURFACE COURSE TACK COAT @ 0.08 GAL/SY - ITEM 407 1.5" ITEM 448 INTERMEDIATE COURSE 8" ITEM 304 AGGREGATE BASE COURSE COMPACTED SUBGRADE PER GEOTECHNICAL REPORT HEAVY DUTY ASPHALT PAVEMENT BUILD-UP: 1.5" ITEM 448 SURFACE COURSE TACK COAT @ 0.08 GAL/SY - ITEM 407

2.5" ITEM 448 INTERMEDIATE COURSE 10" ITEM 304 AGGREGATE BASE COURSE COMPACTED SUBGRADE PER GEOTECHNICAL REPORT

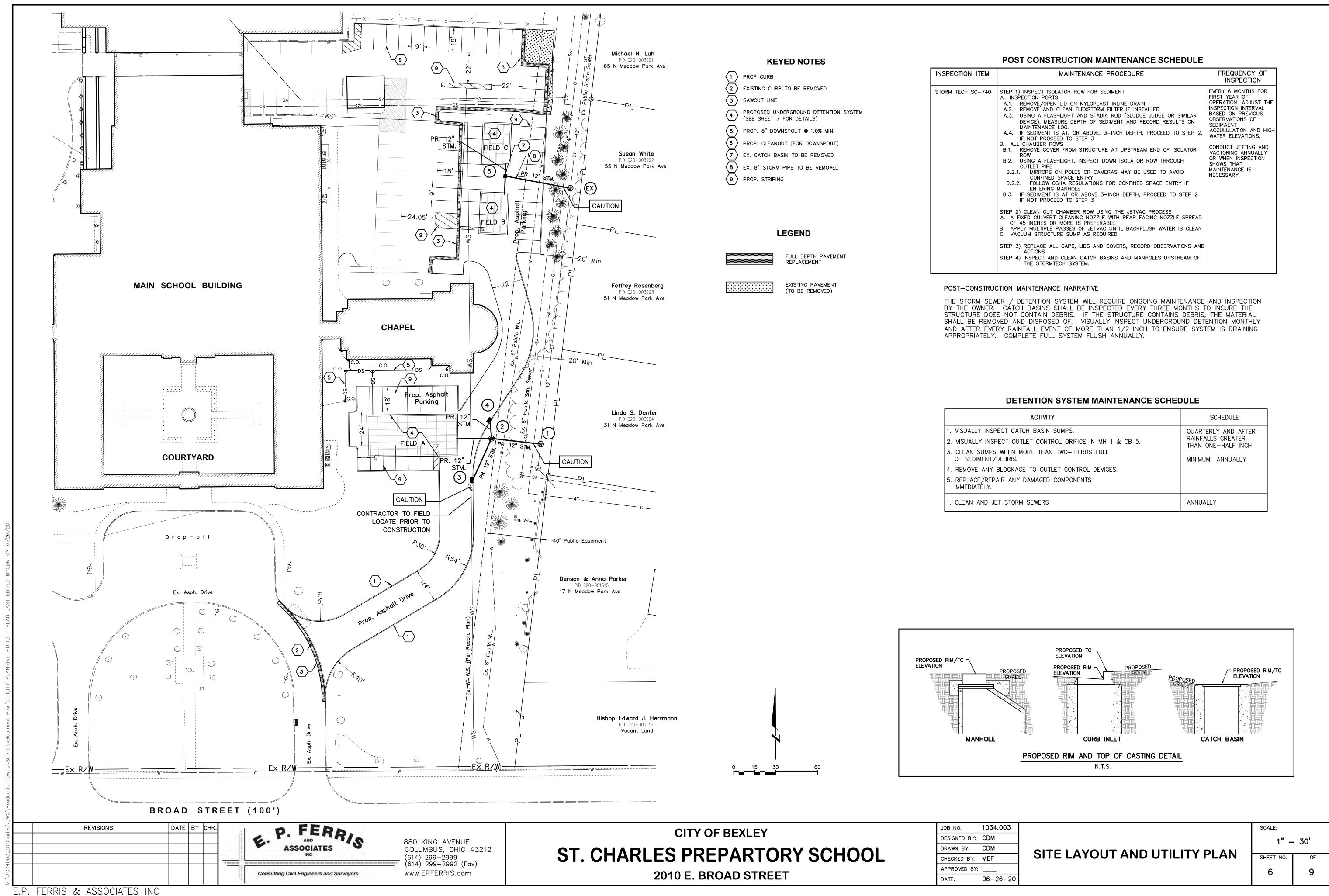
1034.003 CDM

# SITE GRADING PLAN

SCALE: 1" = 30'

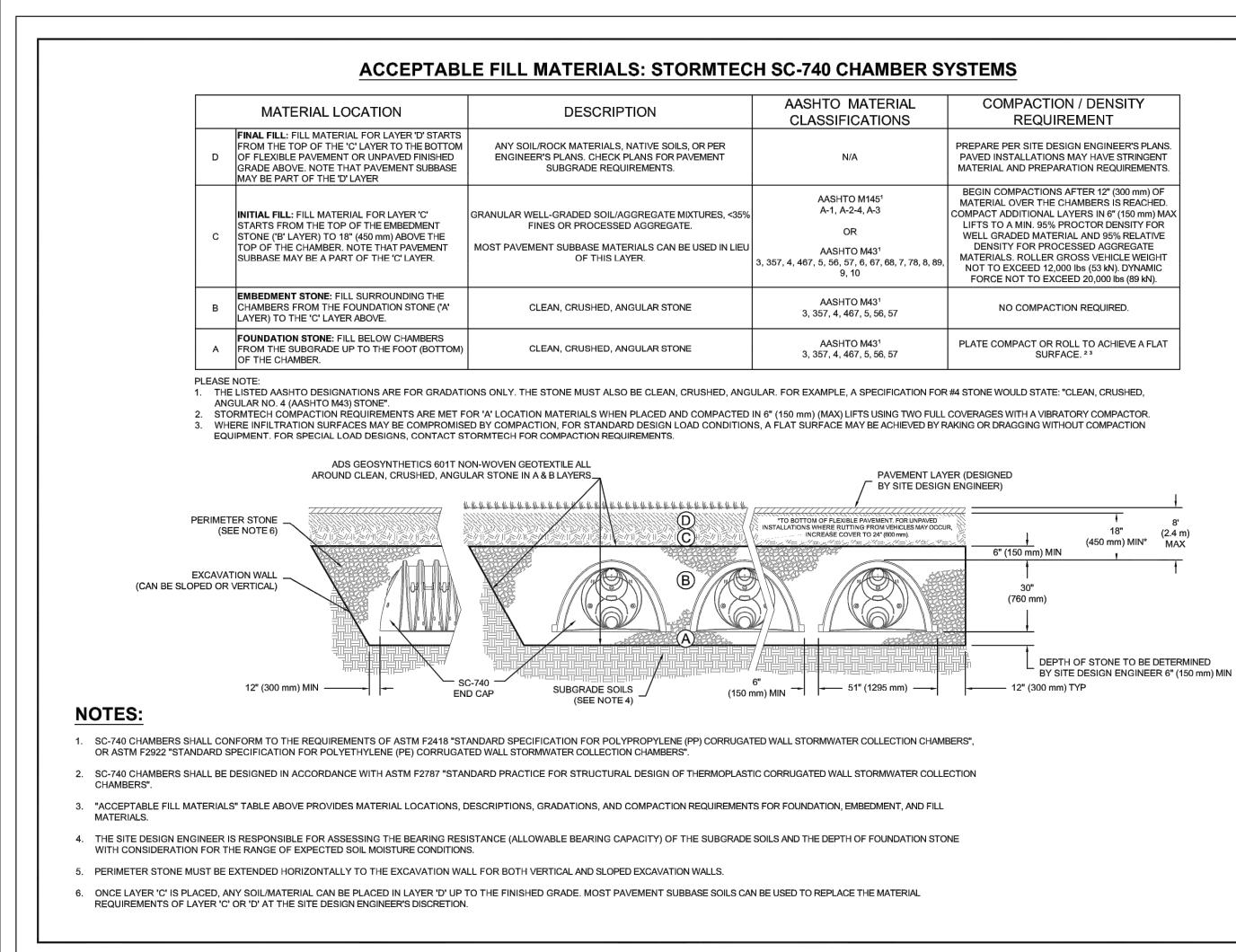
SHEET NO. 5 9

06-26-20



EM	MAINTENANCE PROCEDURE	FREQUENCY OF INSPECTION
740	A. INSPECTION PORTS A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN	EVERY 6 MONTHS FOR FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMAENT ACCULULATION AND HIGH WATER ELEVATIONS. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

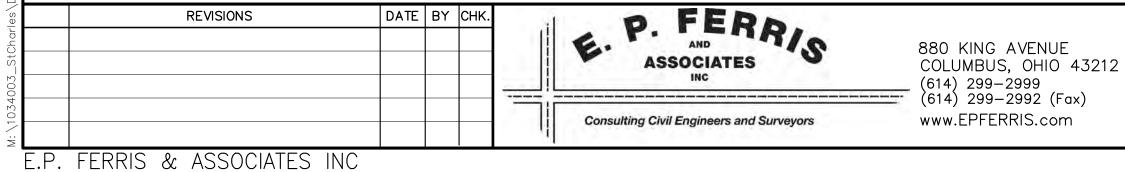
ACTIVITY	SCHEDULE
LY INSPECT CATCH BASIN SUMPS. LY INSPECT OUTLET CONTROL ORIFICE IN MH 1 & CB 5. SUMPS WHEN MORE THAN TWO-THIRDS FULL DIMENT/DEBRIS. /E ANY BLOCKAGE TO OUTLET CONTROL DEVICES. CE/REPAIR ANY DAMAGED COMPONENTS ATELY.	QUARTERLY AND AFTER RAINFALLS GREATER THAN ONE-HALF INCH MINIMUM: ANNUALLY
AND JET STORM SEWERS	ANNUALLY





CHAMBER LOCATION	NUMBER OF ROWS	LENGTH	WIDTH	HEIGHT COVER AGGREGATE	HEIGHT BASE AGGREGATE	DETENTION VOLUME CHAMBERS	DETENTION VOLUME AGGREGATE	WATER QUALITY VOLUME	DET
FIELD A	6 ROWS	67.70'	30.00'	6"	6"	2,481 C.F.	1,851 C.F.	N/A	4,3
FIELD B	4 ROWS	32.10'	20.50'	6"	6"	735 C.F.	628 C.F.	N/A	1,36
FIELD C	4 ROWS	32.10'	20.50'	6"	6"	735 C.F.	628 C.F.	N/A	1,36

AGGREGATE CERTIFICATION NOTE: CONTRACTOR TO PROVIDE AGGREGATE SIEVE ANALYSIS FROM THE SUPPLIER TO COLUMBUS INSPECT REVIEW. AGGREGATE PROVIDED MUST MEET CITY OF COLUMBUS SPECIFICATION ITEM 703. THE CONTRACTOR SHALL PROVIDE THE CITY CERTIFIED REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR DETENTION LAYERS (A AND B) OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE.



IBER S	YSTEMS
RIAL DNS	COMPACTION / DENSITY REQUIREMENT
	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
58, 7, 78, 8, 89,	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
57	NO COMPACTION REQUIRED.
57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>23</sup>

	4640 TRI IEMAN BI VID		REV DRW CHK	DESCRIPTION	UN N	SC_740
1	HILLIARD OH 43026		01/19/16 JLM JLM UPDATE	PDATE		0+1-
	1-800-733-7473	C+Ourtoop.			STANDARD CROSS SECTIC	ROSS SECTION
)F	EE	Datention Retention Water Quality			DATE: 11/18/14	11/18/14 DRAWN: JLM
	T	70 INWOOD ROAD, SUITE 3   ROCKY HILL   CT   06067				
,		860-529-8188   888-892-2694   WWW.STORMTECH.COM			PROJECT #:	CHECKED: JLM
1	THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE SITE DESIGN ENGINEER THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.	IDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN EN HE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEE	SINEER OR OTHER PROJECT REF T ALL APPLICABLE LAWS, REGULAT	PRESENTATIVE. THE SITE DESIGN ENGINEER S IONS, AND PROJECT REQUIREMENTS.	HALL REVIEW THIS DRAWING PRIOR 1	O CONSTRUCTION. IT IS THE

	SC-740 TECH	INICAL SPECI	FICATION
90.7" (2304 mm) ACTUAL LEI	NGTH		5.4" (2169 mm) IN ⊐ BUILD ROW IN
L PORT. FOR 10" (250 mm	PIPE SIZÉS LARGE	PVC PIPE FOR INSPE R THAN 4" (100 mm) ( E CONNECTION CENT JGATION	JP TO
29.3" (744 mm)	N N N	$\mathcal{I}$	
	- 45.9" (1166 mm)		5- (120
,		I	. (129
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT	_	).0" X 85.4" (1295 IC FEET (1.30	mm X 762 mm X 2 m³) m³)
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs.	).0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6 )	mm X 762 mm X 2 m³) m³)
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE*	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs.	).0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6)	mm X 762 mm X 2 m³) m³) kg) 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET	).0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	m³)
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET	).0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 m³) m³) kg) 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVE *ASSUMES 6" (152 mm) STONE ABOVE STUBS AT BOTTOM OF END CAP FOR STUBS AT BOTTOM OF END CAP FOR PART # SC740EPE06T / SC740EPE06TPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET R PART NUMBERS E T NUMBERS ENDIN	0.0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 m³) kg)  E
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06BPC SC740EPE06B / SC740EPE06BPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET R PART NUMBERS ENDIN STUB	0.0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 m³) kg)  E  B
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06PC SC740EPE06B / SC740EPE06BPC SC740EPE08B / SC740EPE08BPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET RT NUMBERS ENDIN STUB 6" (150 mm) 8" (200 mm)	0.0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 <sup>m³</sup> ) <sup>kg</sup> ) <b>B</b> 18.5" (470 n  16.5" (419 n 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06BPC SC740EPE06B / SC740EPE06BPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET RT NUMBERS ENDIN STUB 6" (150 mm)	0.0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 <sup>m³</sup> ) <sup>kg</sup> ) <b>B</b> 18.5" (470 n  16.5" (419 n 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06BPC SC740EPE06B / SC740EPE06BPC SC740EPE08B / SC740EPE08BPC SC740EPE08B / SC740EPE08BPC SC740EPE10T / SC740EPE10BPC SC740EPE10B / SC740EPE10BPC SC740EPE12T / SC740EPE12TPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET RT NUMBERS ENDIN STUB 6" (150 mm) 8" (200 mm)	0.0" X 85.4" (1295 IC FEET (1.30 IC FEET (2.12 (33.6) WEEN CHAMBERS	mm X 762 mm X 2 m <sup>3</sup> ) kg) B 18.5" (470 m  16.5" (419 m  14.5" (368 m 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06BPC SC740EPE08B / SC740EPE08BPC SC740EPE08B / SC740EPE08BPC SC740EPE10T / SC740EPE10BPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET R PART NUMBERS E T NUMBERS ENDIN 6" (150 mm) 8" (200 mm) 10" (250 mm)	0.0" X 85.4" (1295 IC FEET (1.30) IC FEET (2.12) (33.6) WEEN CHAMBERS NDING WITH "B" IG WITH "T" A 10.9" (277 mm) 12.2" (310 mm) 13.4" (340 mm) 14.7" (373 mm)	mm X 762 mm X 2 m <sup>3</sup> ) kg) B 18.5" (470 m  16.5" (419 m  14.5" (368 m  12.5" (318 m 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06T / SC740EPE06BPC SC740EPE06B / SC740EPE06BPC SC740EPE08T /SC740EPE08BPC SC740EPE08B / SC740EPE08BPC SC740EPE10T / SC740EPE10BPC SC740EPE10B / SC740EPE10BPC SC740EPE12B / SC740EPE12BPC SC740EPE12B / SC740EPE12BPC SC740EPE15B / SC740EPE15BPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET R PART NUMBERS E RT NUMBERS ENDIN STUB 6" (150 mm) 8" (200 mm) 10" (250 mm)	0.0" X 85.4" (1295 IC FEET (1.30) IC FEET (2.12) (33.6) WEEN CHAMBERS NDING WITH "B" IG WITH "T" A 10.9" (277 mm) 12.2" (310 mm) 13.4" (340 mm)	mm X 762 mm X 2 m <sup>3</sup> ) kg) <b>B</b> 18.5" (470 m  16.5" (419 m  14.5" (368 m  12.5" (318 m  9.0" (229 m 
NOMINAL CHAMBER SPECIFICATIONS SIZE (W X H X INSTALLED LENGTH) CHAMBER STORAGE MINIMUM INSTALLED STORAGE* WEIGHT *ASSUMES 6" (152 mm) STONE ABOVI *ASSUMES 6" (152 mm) STONE ABOVI STUBS AT BOTTOM OF END CAP FOR STUBS AT TOP OF END CAP FOR PAR PART # SC740EPE06B / SC740EPE06BPC SC740EPE08B / SC740EPE08BPC SC740EPE08B / SC740EPE08BPC SC740EPE08B / SC740EPE08BPC SC740EPE10T / SC740EPE10BPC SC740EPE10B / SC740EPE10BPC SC740EPE12B / SC740EPE12BPC SC740EPE12B / SC740EPE12BPC SC740EPE15T / SC740EPE15TPC	51.0" X 30 45.9 CUB 74.9 CUB 75.0 lbs. E, BELOW, AND BET R PART NUMBERS E T NUMBERS ENDIN 6" (150 mm) 8" (200 mm) 10" (250 mm)	0.0" X 85.4" (1295 IC FEET (1.30) IC FEET (2.12) (33.6) WEEN CHAMBERS NDING WITH "B" IG WITH "T" A 10.9" (277 mm) 12.2" (310 mm) 13.4" (340 mm) 14.7" (373 mm)	mm X 762 mm X 2 m³) kg)  E  B  18.5" (470 m

\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

TOTAL TENTION OLUME	
332 C.F.	
63 C.F.	
63 C.F.	

CTOR	FOR
THE	WATER

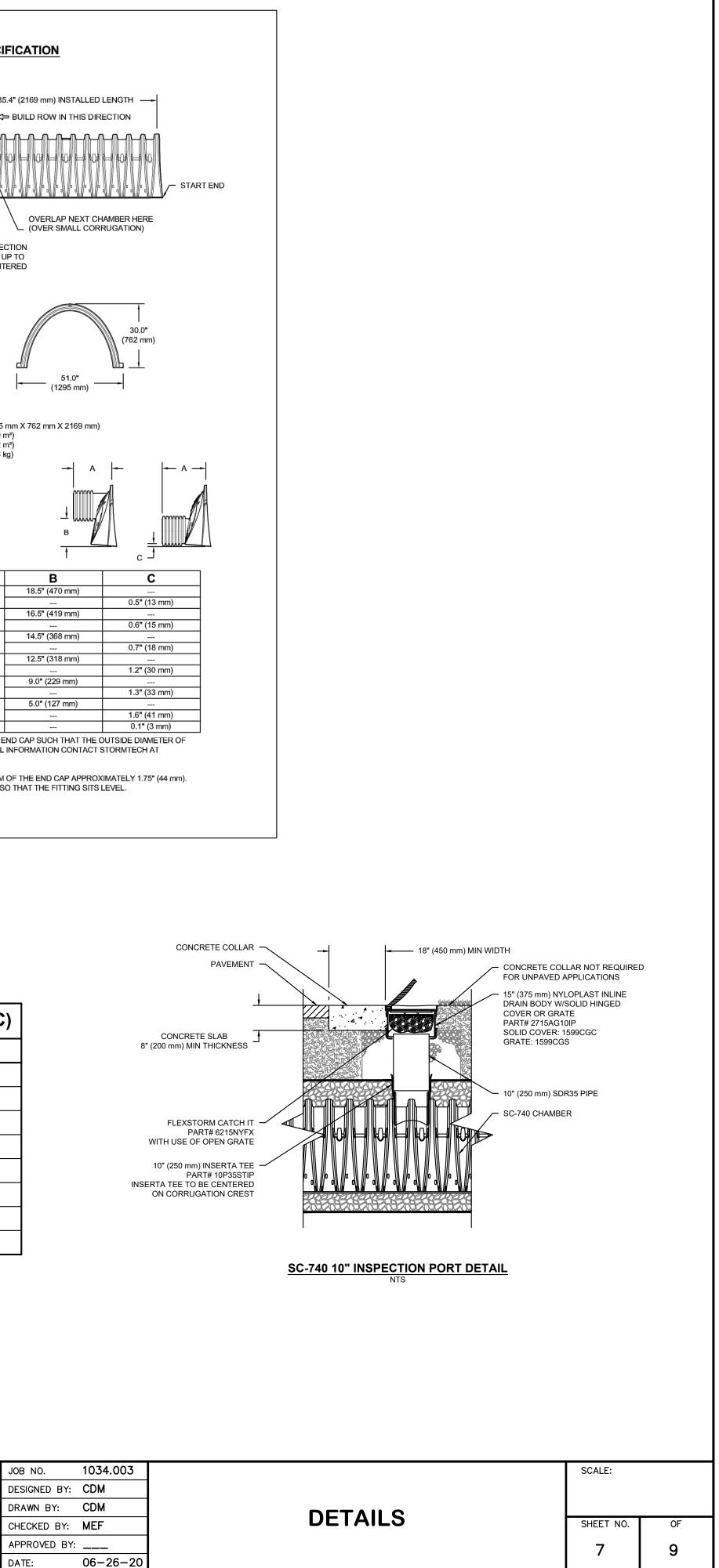
SC-740 ELEVATIONS (F	IELD A)				
TOP OF STONE	754.50				
TOP OF CHAMBER	754.00				
TOP 12" MANIFOLD INVERT	753.20				
TOP 12" MANIFOLD INVERT	752.70				
12" ISOLATOR ROW INVERT	751.65				
12" BOTTOM MANIFOLD INVERT	751.65				
BOTTOM OF CHAMBER	751.50				
BOTTOM OF STONE	751.00				

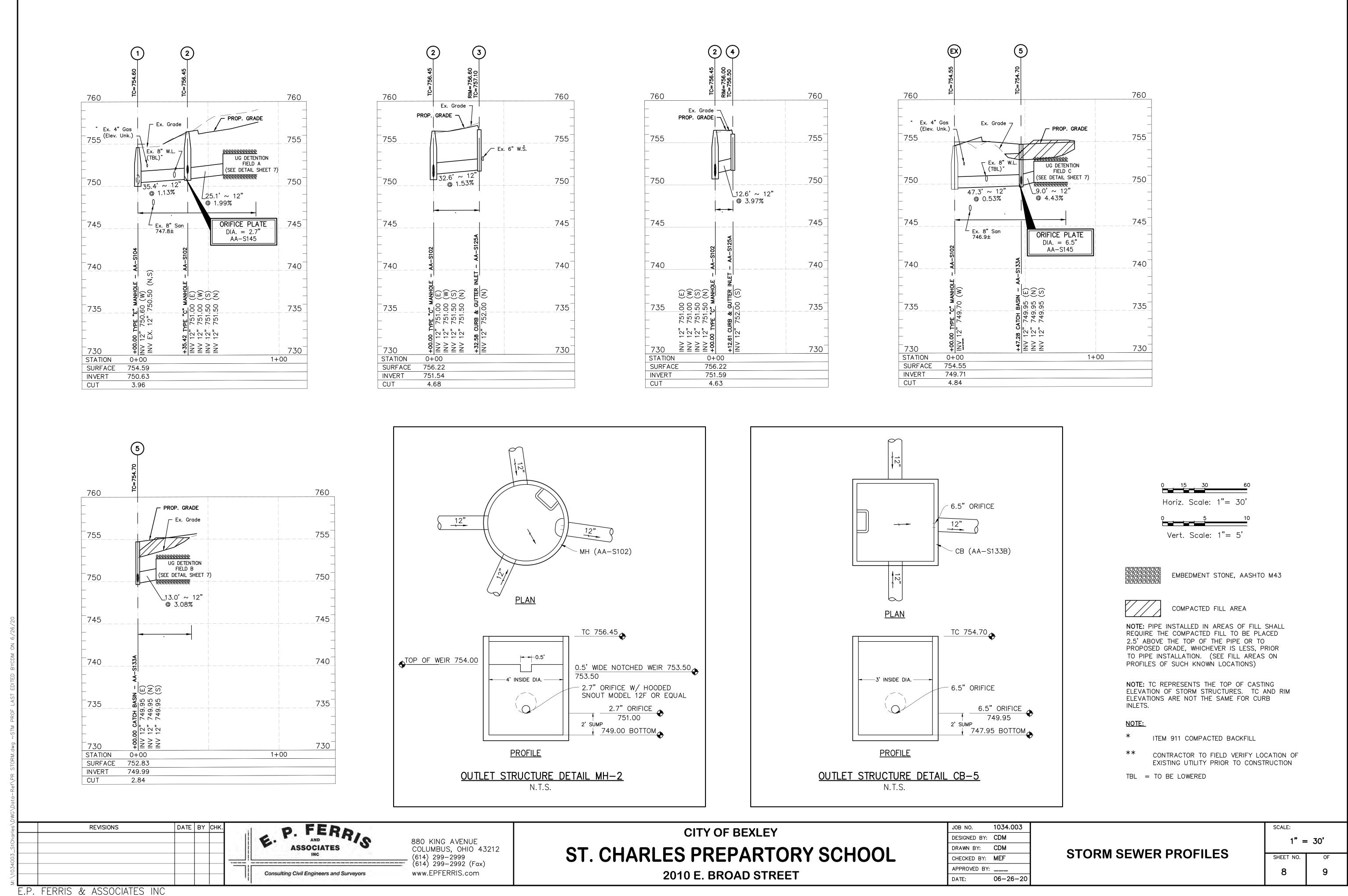
SC-740 ELEVATIONS (FIELD B & C)									
TOP OF STONE	753.35								
TOP OF CHAMBER	752.85								
TOP 12" MANIFOLD INVERT	752.20								
TOP 12" MANIFOLD INVERT	751.70								
12" ISOLATOR ROW INVERT	750.50								
12" BOTTOM MANIFOLD INVERT	750.50								
BOTTOM OF CHAMBER	750.35								
BOTTOM OF STONE	749.85								

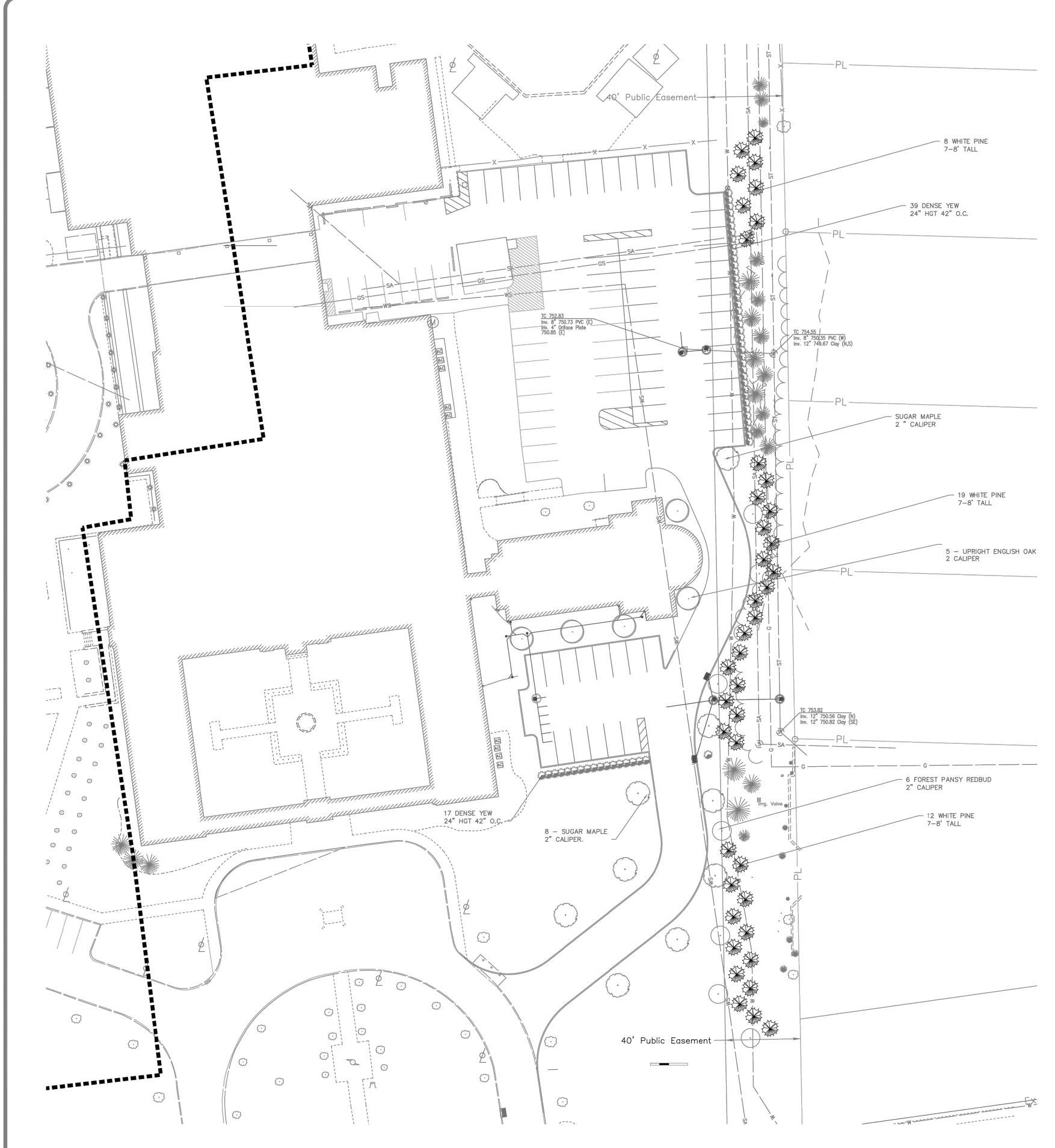
# **CITY OF BEXLEY**

**ST. CHARLES PREPARTORY SCHOOL** 

2010 E. BROAD STREET







THIS DRAWING IS THE EXCLUSIVE PROPERTY OF OAKLAND DESIGN ASSOCIATES AND SHALL NOT BE REPRODUCED, TRANSFERRED, OR OTHERWISE USED WITHOUT THEIR WRITTEN PERI-

	PLANTING	SCHEDULE	
COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
SHADE TREE			
SUGAR MAPLE	ACER SACCARUM	2"	9
UPRIGHT ENGLISH OAK	QUERCUS RUBRUM ' REGAL PRINCE'	2"	
ORNAMENTAL TREE			
FOREST PANSY REDBUD	CERCIS CANADENSIS 'FOREST PANSY'	0'-2"	6
EVERGREEN TREES			
EASTERN WHITE PINE	PINUS STROBUS	7-8'	39
SHRUBS			
DENSE YEW	TAXUS X MEDIA 'DENSIFORMIS'	2'-0"	56





Label	Arrangement	LLF	Description
P1	SINGLE	0.950	RSX1 LED P4 40K R4 EGFV
B1	SINGLE	0.950	KBA8 LED 16C 350 40K SYM MVOLT
P4	4 @ 90 DEGREES	0.950	RSX1 LED P4 40K R4 EGFV

	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
r	Illuminance	Fc	0.60	9.0	0.0	N.A.	N.A.
	Illuminance	Fc	2.03	22.2	0.0	N.A.	N.A.

Y	$\gamma \gamma$	Ŷ	Y	Y	Y I	,	γγ	$\sim$	$\sim$	$\gamma\gamma\gamma$	$\sim$	$\gamma\gamma\gamma$		( )
---	-----------------	---	---	---	-----	---	----	--------	--------	----------------------	--------	----------------------	--	-----

apen   #   Bevisions
Drawn By:       Checked By:       Date:2/4/2021       Scale:
ST CHARLES





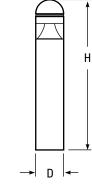


(20.3 cm) 42″ Height: (106.7 cm)

27 lbs

(12.25 kg)

Weight (max):



### Catalog Numbe Notes

Туре

## Introduction

The KBA8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBA8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ord	ering Information	on				EXAMPLE: KBA8 LED 16C 700 40K SYM MVOLT DD										
KBA8 LEI	D															
Series	LEDs	Drive curre	nt	Color temperature	Distr	ibution	Voltage	Control options								
KBA8 LE	D Asymmetric 12C 12 LEDs <sup>1</sup> Symmetric 16C 16 LEDs <sup>2</sup>	350         350           450         450           530         530           700         700	mA <sup>3,4</sup> mA	30K     3000 K       40K     4000 K       50K     5000 K       AMBPC     Amber phosphor converted       AMBLW     Amber limited wavelength <sup>3,4</sup>	ASY	Asymmetric <sup>1</sup> Symmetric <sup>2</sup>	MVOLT <sup>5</sup> 120 <sup>5</sup> 208 <sup>5</sup> 240 <sup>5</sup> 277 <sup>5</sup> 347 <sup>4</sup>	Shipped installed         PE       Photoelectric cell, button type         DMG       0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)         ELCW       Emergency battery backup, CA Title 20 Noncompliant <sup>6</sup>								
Other op	tions		Finish (re	equired)												
Other options     Finish (r       Shipped installed     DWHXI       SF     Single fuse (120, 277, 347V) <sup>47</sup> DNAXD       DF     Double fuse (208, 240V) <sup>47</sup> DDBXD       H24     24" overall height     DBLXD       H30     30" overall height     DDBTXI       H36     36" overall height     DBLSDI       FG     Ground-fault festoon outlet     DNATXI       L/AB     Without anchor bolts (3 bolt base)     DWHG3				White Natural aluminum Dark bronze												

Accessories	

L/AB4 4 bolt retrofit base without anchor bolts 8

Ordered and shipped separately

MRAB U Anchor bolts for KBA8 LED 8

#### NOTES

option)

5

Only available in the 12C, ASY version.

- Only available in the 16C, SYM version. Only available with 450 AMBLW version. 2
- 3 4 Not available with ELCW.
  - MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE
- Not available with 347V. Not available with 6
- fusing. Not available with 450 AMBLW. Single fuse (SF) requires 120, 277, or 347 7 voltage option. Double fuse (DF) requires
- 208 or 240 voltage option. MRAB U not available with L/AB4 option. 8 9
- Striping is available only in the colors listed.



#### **Performance Data**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

LEDs	Drive Current	System	Dist.			30K					40K					50K					50K		
LEUS	(mA)	Watts	Туре	Lumens		U	G	LPW	Lumens		U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
	350mA	16	ASY	1,126	1	1	1	70	1,210	1	1	1	76	1,217	1	1	1	76					
12C	530 mA	22	ASY	1,622	1	1	1	74	1,741	1	1	1	79	1,752	1	1	1	80					
120	700mA	30	ASY	2,050	1	1	1	68	2,201	1	1	1	73	2,215	1	1	1	74					
	Amber 450	16	ASY																324	0	1	0	20
	350mA	20	SYM	1,527	1	0	0	76	1,640	1	0	0	82	1,650	1	0	0	83					
16C	530 mA	28	SYM	2,186	1	0	0	78	2,348	1	0	1	84	2,362	1	0	1	84					
IOC	700mA	39	SYM	2,744	1	0	1	70	2,947	1	0	1	76	2,965	2	0	1	76					
	Amber 450	20	SYM																374	0	0	0	19

**Note:** Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

#### **Projected LED Lumen Maintenance**

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

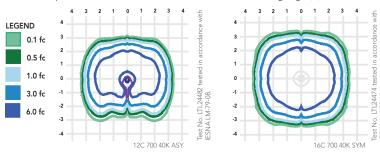
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

Electr	ical Loac	1	Current (A)								
Light Engines	Drive Current (mA)	System Watts	120	208	240	277	347				
350 530	16W	0.158	0.118	0.114	0.109	0.105					
	530	22W	0.217	0.146	0.136	0.128	0.118				
120	700	31W	0.296	0.185	0.168	0.153	0.139				
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106				
	350	20W	0.197	0.137	0.128	0.121	0.114				
160	530	28W	0.282	0.178	0.162	0.148	0.135				
100	700	39W	0.385	0.231	0.207	0.185	0.163				
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116				

**Photometric Diagrams** 

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KBA8 Bollard homepage.

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



#### **FEATURES & SPECIFICATIONS**

#### INTENDED USE

The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

#### CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three  $\frac{1}{2}$ " x 11" anchor bolts with double nuts and washers and 3  $\frac{3}{4}$ " bolt circle template ensure stability. Overall height is 42" standard.

#### FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

#### OPTICS

Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

#### ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

#### LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

#### WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.

**Note:** Actual performance may differ as a result of end-user environment and application.

. All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.





0.57 ft<sup>2</sup> (0.05 m<sup>2</sup>)

21.8" (55.4 cm)

13.3" (33.8 cm)

3.0" (7.6 cm) Main Body

7.2" (18.4 cm) Arm

22.0 lbs (10.0 kg)

(SPA mount)

**Specifications** 

EPA

(ft<sup>2</sup>@0°):

Length:

Width:

Height:

Weight:

(SPA mount):





Catalog Number			
Notes			
Туре			

#### Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

#### FXAMPLE: RSX1 | ED P4 40K R3 MVOLT SPA DDRXD

Orderin	g Informa	ation		EX	AMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD
RSX1 LED					
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R2Type 2 WideR3Type 3 WideR3SType 3 ShortR4Type 4 WideR4SType 4 ShortR5Type 5 Wide 1R5SType 5 Short 1AFRAutomotive Front RowAFRR90Automotive Front RowR1R190Automotive Front RowAFRL90Automotive Front RowLeft Rotated	HVOLT         (347V-480V) <sup>3</sup> XVOLT         (277V-480V) <sup>4</sup> (use specific voltage for options as noted)         120 <sup>3</sup> 120 <sup>3</sup> 277 <sup>5</sup> 208 <sup>3</sup> 347 <sup>5</sup> 240 <sup>3</sup> 480 <sup>5</sup>	SPASquare pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°)RPARound pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°)MAMast arm adaptor (fits 2-3/8" 0D horizontal tenon)ISAdjustable slipfitter (fits 2-3/8" 0D tenon) 6WBAWall bracket 1WBASCWall bracket with surface conduit boxAASPAdjustable tilt arm square pole mounting 6AARPAdjustable tilt arm with wall bracket 6AAWSCAdjustable tilt arm wall bracket and surface conduit box 6

A RIHER RAT

н

Options		Finish	
HSHouse-side shield 7PEPhotocontrol, button style 89PEXPhotocontrol external threaded, adjustable 910PER7Seven-wire twist-lock receptacle only (no controls) 9.11,12,13CE34Conduit entry 3/4" NPT (Qty 2)SFSingle fuse (120, 277, 347) 5DFDouble fuse (208, 240, 480) 5SPD20KV20KV Surge pack (10KV standard)FA0Field adjustable output 913DMG0-10V dimming extend out back of housing for external control (control ordered separate) 913	Shipped Installed         *Standalone and Networked Sensors/Controls (factory default settings, see table page 9)         NLTAIR2       nLight AIR generation 2 <sup>13,14,15</sup> PIRHN       Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) <sup>13,15,16</sup> *Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.         Shipped Separately (requires some field assembly)         EGS       External glare shield <sup>7</sup> EGFV       External glare full visor (360° around light aperture) <sup>7</sup> BS       Bird spikes <sup>17</sup>	DDBXD DBLXD DNAXD DWHXD DDBTXD DBLBXD DNATXD DWHGXD	Dark Bronze Black Natural Aluminum White Textured Dark Bronze Textured Black Textured Natural Aluminum Textured White



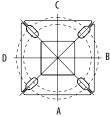
COMMERCIAL OUTDOOR

#### **Ordering Information**



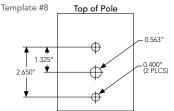
Accessories including bullhorns, cross arms and other adpaters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit Accessories.

#### HANDHOLE ORIENTATION

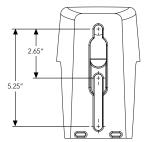


Handhole

#### RSX POLE DRILLING



#### **RSX STANDARD ARM & ADJUSTABLE ARM**



#### **Round Tenon Mount - Pole Top Slipfitters**

Tenon O.D.	RSX Mounting	Single	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2 - 3/8"	RPA, AARP	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2 - 7/8"	RPA, AARP	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	RPA, AARP	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

#### Drill/Side Location by Configuration Type

		-8				<b>.</b>	
Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

#### **RSX1 - Luminaire EPA**

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

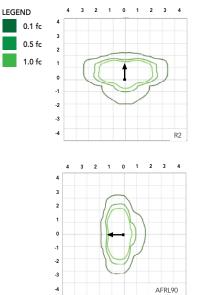
Fixture Quantity & Mounting Configuration		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt	-8	•			$\overset{\bullet}{\overset{\bullet}}$				
SPA - Square Pole Adaptor		0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
<b>RPA - Round Pole Adaptor</b>	0 °	0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36
MA - Mast Arm Adaptor		0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1
	0 °	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
IS - Integral Slipfitter	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	5.43	7.24
AASP/AARP - Adjustable	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
Arm Square/Round Pole	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97

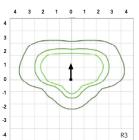


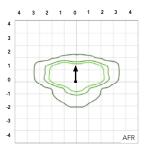
#### **Photometric Diagrams**

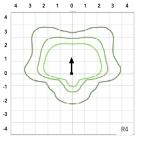
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's RSX Area homepage.

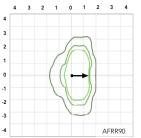
Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').

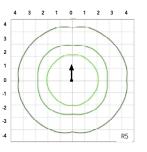












#### **Performance Data**

#### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5℃	41°F	1.04
10°C	50°F	1.03
15℃	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35℃	95°F	0.98
40°C	104°F	0.97
45℃	113°F	0.96
50°C	122°F	0.95

#### **Electrical Load**

		Current (A)										
Performance Package	System Watts (W)	120V	208V	240V	277V	347V	480V					
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11					
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15					
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23					
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27					

#### **Projected LED Lumen Maintenance**

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



#### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance System Watts		Distribution.			30K IK, 70 CR	I)				40K )K, 70 Cr	l)				50K IK, 70 CR	l)	
Tackage		Туре	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
		R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
P1	51W	R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
r i	JIW	R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
		R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
P2	72W	R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
F2	/200	R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
		R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
P3	109W	R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
rs	10910	R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
		R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
P4	133W	R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
r4	133W	R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

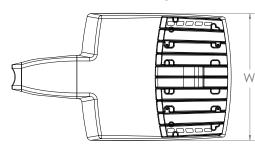


#### **Dimensions & Weights**

#### Luminaire Weight by Mounting Type

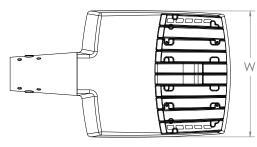
Mounting Configuration	Total Luminaire Weight		
SPA	22 lbs		
RPA	24 lbs		
MA	22 lbs		
WBA	25 lbs		
WBASC	28 lbs		
IS	25 lbs		
AASP	25 lbs		
AARP	27 lbs		
AAWB	28 lbs		
AAWSC	31 lbs		

#### **RSX1 with Round Pole Adapter (RPA)**



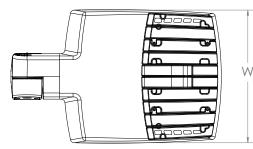
Length: 22.8" (57.9 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm

#### **RSX1 with Mast Arm Adapter (MA)**



Length: 23.2" (59.1 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 3.5" (8.9 cm) Arm

#### **RSX1 with Adjustable Slipfitter (IS)**

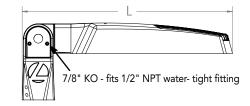


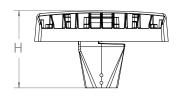
Length: 20.7" (52.7 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 7.6" (19.3 cm) Arm

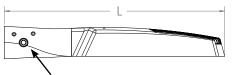


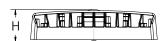


COMMERCIAL OUTDOOR









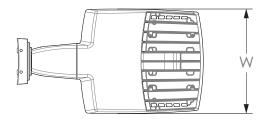
Н

7/16" locking thru bolt/nut provided

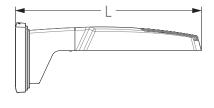
Note: RPA — Round Pole mount can also be used to mount on square poles by omitting

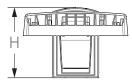
the round pole adapter plate shown here.

#### **RSX1 with Wall Bracket (WBA)**

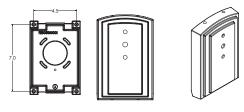


Length: 23.6" (59.9 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 8.9" (22.6 cm) Arm

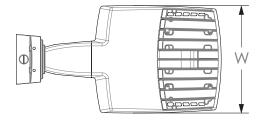


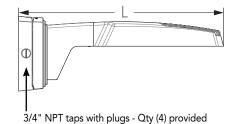


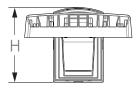
#### Wall Bracket (WBA) Mounting Detail



#### RSX1 with Wall Bracket with Surface Conduit Box (WBASC)

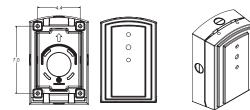






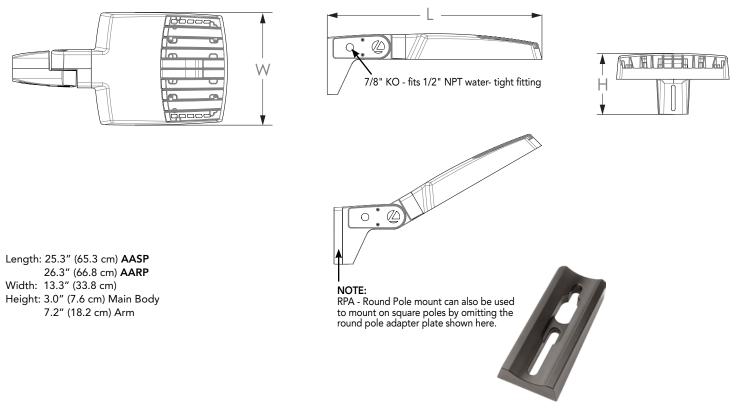
Length: 25.3" (64.3 cm) Width: 13.3" (33.8 cm) Height: 3.0" (7.6 cm) Main Body 9.2" (23.4 cm) Arm

#### Surface Conduit Box (SCB) Mounting Detail





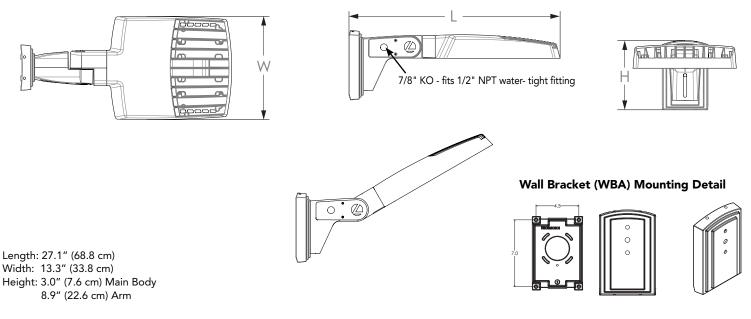
RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



#### Notes

AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°. AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

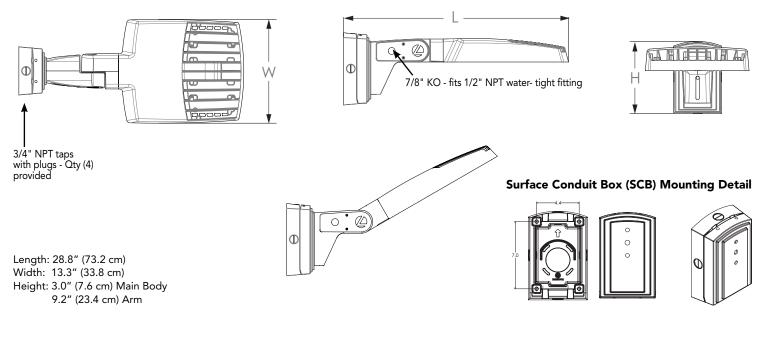
#### RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



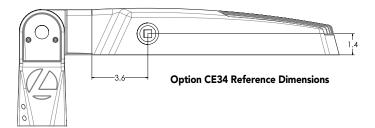


Lithonia RSX1 Area LED Rev. 11/30/20 Page 7 of 9

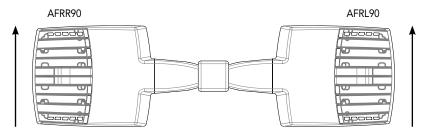
#### RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)



#### **Additional Reference Drawings**

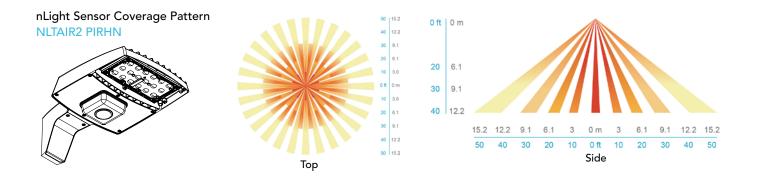


#### Automotive Front Row - Rotated Optics (AFRL90/R90)



(Example: 2@180 - arrows indicate direction of light exiting the luminaire)





Motion Sensor Default Settings - Option PIRHN							
Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)	
NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes	

\*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is titled.

#### **FEATURES & SPECIFICATIONS**

#### INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the onefor-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

#### CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heatdissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

#### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

#### OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 35, Type 4, Type 45, Type 5, Type 55, AFR (Automotive Front Row), and AFR rotated AFRR90 and AFRL90.

#### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/ IEEE C62.41.2).

#### STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

#### nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-touse CLAIRITY app. nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

#### INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

#### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

#### WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-condit

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

