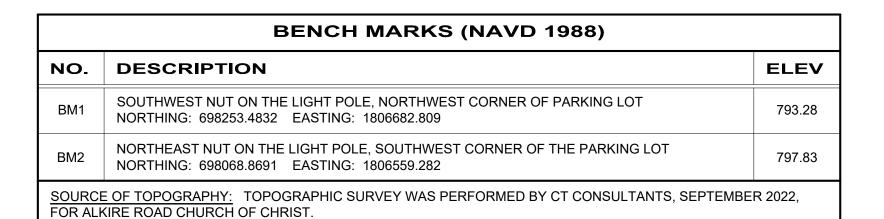
- PRIVATE STORM SEWER & STORMWATER FACILITIES FOR -

2779 ALKIRE ROAD CHURCH OF CHRIST (CONTRACT A)

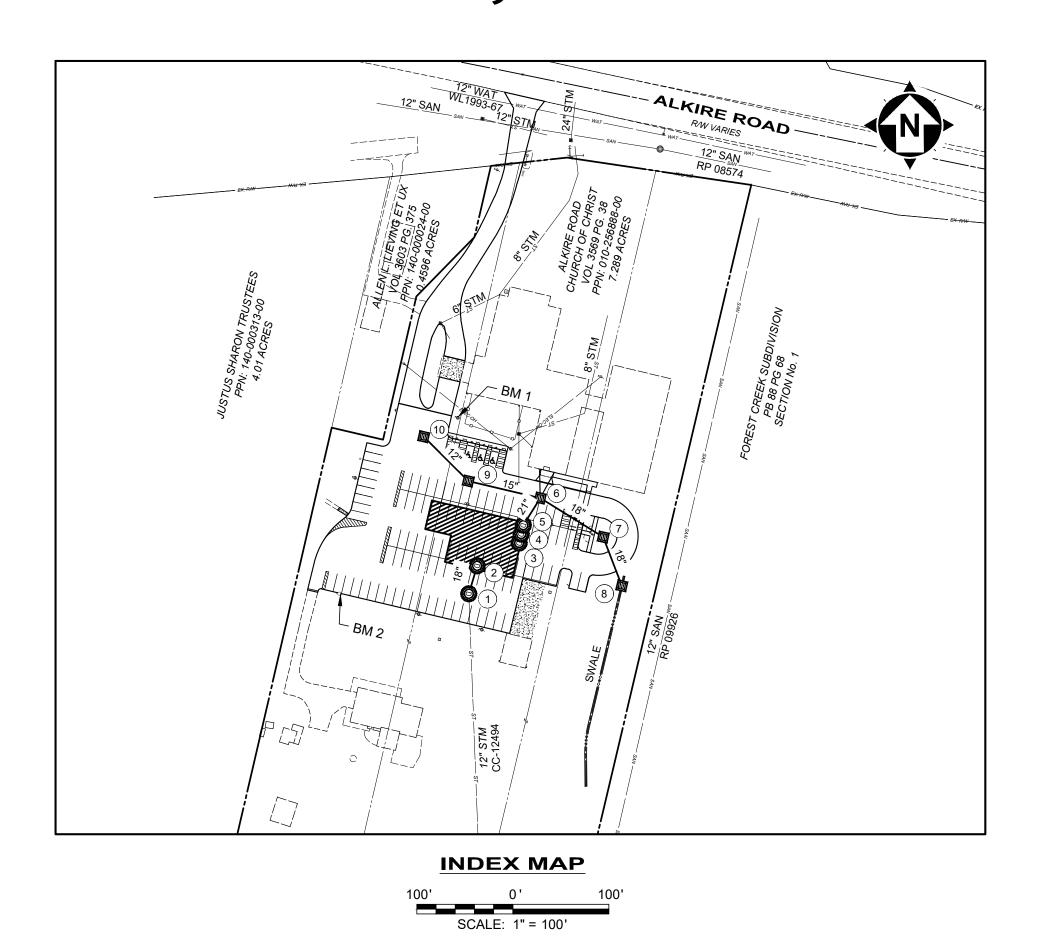
CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO MAY, 2024

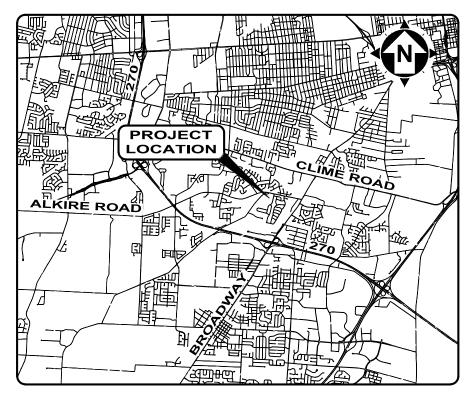


STANDARD CONSTRUCTION DRAWINGS							
THE CURRENT STANDARD CONSTRUCTION DRAWINGS FOR EACH MUNICIPALITY OR UTILITY LISTED BELOW SHALL BE CONSIDERED AS PART OF THIS SET THEREOF.							
CITY OF COLUMBUS ODOT							
AA-S102 AA-S112 AA-S134A AA-S139 AA-S145	AA-S149 AA-S150 AA-S151 AA-S153 1441	DM-101					

100 YEAR DETENTION TABLE (ADDITIONALLY WITH BMP'S THAT PROVIDE QUANTITY CONTROL)									
LOCATION VOLUME PROVIDED REQUIRED PROVIDED ELEVATION ELEVATION									
UNDERGROUND STORAGE SYSTEM	9,268	10,550	789.37	789.40					

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES										
CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS) PLAN VIEW PAGE NUMBER FOR BMP		CONTROL CONTROL FUNCTION FACILITY (ACRES)		FACILITY TYPE	GREEN INFRA- STRUCTURE					
1	7-8	WATER QUANTITY WATER QUALITY	1.67	UNDERGROUND STORAGE SYSTEM W/ GEOTEXTILE FILTER FOREBAY	N/A					





LOCATION MAP

OWNER

ALKIRE ROAD CHURCH OF CHRIST 2779 ALKIRE ROAD GROVE CITY, OHIO 43123 PHONE: 614-875-1028

ENGINEER

CT CONSULTANTS, INC. 7965 N. HIGH STREET, SUITE 340 COLUMBUS, OH 43235 PHONE: 614-779-0038

CONTACT: ERIC TROYER, PE

PROJECT DATA							
TOTAL PROPERTY ACREAGE	7.19 ACRES						
IMPERVIOUS DISTURBED AREA	1.01 ACRES						
PRE-CONSTRUCTION IMPERVIOUS AREA	1.01 ACRES						
POST-CONSTRUCTION IMPERVIOUS AREA	1.13 ACRES						
TOTAL EARTH DISTURBED AREA	1.32 ACRES						

NOTE: PROJECT IS LOCATED IN FIRM PANEL 39049C0312k AND IS CLASSIFIED AS "ZONE X - MINIMAL FLOODING HAZARD". EFFECTIVE DATE OF 6/17/2008.

INDEX OF SHEETS							
Sheet Number	Sheet Title						
1	COVER SHEET						
2	GENERAL NOTES						
3	STANDARD DETAILS						
4	QUANTITIES EXISTING CONDITIONS-SITE DEMOLITION PLAN						
5							
6	SITE PLAN UNDERGROUND STORAGE SYSTEM DETAILS 1						
7							
8	UNDERGROUND STORAGE SYSTEM DETAILS 2						
9	UNDERGROUND STORAGE SYSTEM DETAILS 3						
10	STORM AND GRADING PLAN						
11	STORM PROFILES						
12	SWPPP						
13	SWPPP NOTES 1						
14	SWPPP DETAILS						

	EASEMENT REFERENCE		REVISIONS				APPROVALS: SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AITHE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARIN STORM DRAINAGE ONLY. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPE	G THE PLAN. APPROVAL FOR	PROJECT TITLE:			CITY OF COLUMBU PUBLIC UTILITI	S DEPARTMENT OF
CITY NO. VOL.	RECORDER GRANTOR PAGE	NO.	DESCRIPTION	APPROVAL/DATE	your trusted at		REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS.		PRIVATE STORM SEWER AND S FACILITIES FOR ALKIRE ROAD CH	URCH OF		SEWERAGE A	ND DRAINAGE USE ONLY
		1				planners	CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN & CONSTRUCTION	DATE	CITY OF COLUMBUS, OHIO - FRANKLII				
										OV	VNER		
					OF OH		ADMINISTRATOR, DIVISION OF SEWERAGE & DRAINAGE	DATE		CONT	RACTOR		
					S FRIC S	e I Troyer				INSP	ECTOR	SCALE: 1" = 100'	SHEET: 1/14
					TROYER E-53926 ERIC J. TF	ROYER, P.E. NO. E-53926	ADMINISTRATOR BUILDING POWER	DATE		AGREEMENT	COMPLETED	GOALL: 1 - 100	3/1227: 1 / 1 -
					ON PROPERTY OF IT	211	ADMINISTRATOR, DIVISION OF POWER	DATE		RPD CKD	CLD CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
					DATE	<u>- 29</u>	ADMINISTRATOR, DIVISION OF WATER	 DATE		INDEX DETAIL	RECORD	CC-19884	

GENERAL NOTES:

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2018 EDITION, REVISION (03/01/2018), INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

UTILITY CONTACTS:

(614) 883-6802

ATTN: PAUL PAXTON

PTPAXTON @ AEP.COM

NOTIFICATION OF THE UTILITY COMPANIES PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

SEWER:
CITY OF COLUMBUS
DIVISION OF SEWERAGE & DRAINAGE
1250 FAIRWOOD AVENUE
COLUMBUS, OHIO 43206
(614) 645-7102

AMERICAN ELECTRIC POWER COLU 700 MORRISON ROAD 3350 J GAHANNA, OHIO 43230 COLU

LIGHTING:
CITY OF COLUMBUS
DIVISION OF POWER
3500 INDIANOLA AVENUE
COLUMBUS, OHIO 43214
(614) 645-7627
GAS:

CITY OF COLUMBUS **DIVISION OF WATER** 910 DUBLIN ROAD COLUMBUS, OHIO 43215 (614) 645-7788

GAS:	TELEPHONE:
COLUMBIA GAS OF OHIO	AT&T
3350 JOHNNY APPLESEED CT.	111 NORTH 4TH STREET
COLUMBUS, OHIO 43231	COLUMBUS, OHIO 43215
(866) 632-6243	(614) 223-7276
ATTN: ROB CALDWELL	ATTN: CHARLES JOHNSON
RCALDWELL@NISOURCE.COM	CJ3237@ATT.COM
_	_

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24 HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION.

DIVISION OF SEWERAGE AND DRAINAGE: (614) 645-7102 **DIVISION OF DESIGN AND CONSTRUCTION:** (614) 645-0433

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-3764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

UTILITY COORDINATION OF UTILITIES IN THE R/W: THE IDENTITY AND LOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED IN AND AROUND THE CONSTRUCTION AREA HAVE BEEN SHOWN AND LABELED ON THE PLANS BY USING INFORMATION PROVIDED BY THE RESPECTIVE UTILITY OWNERS. THE CITY OF COLUMBUS OR THE CONSULTING ENGINEER WILL NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OR THE DEPTH OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS.

SUPPORT AND PROTECTION OF ALL UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS FOR REPAIR AND RESTORATION OF EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CITY OF COLUMBUS UTILITIES WILL ONLY LOCATE AND MARK MAIN LINE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL SERVICE LATERAL AND LINES. COSTS ASSOCIATED WITH THE ABOVE WORK AND RESPONSIBILITIES SHALL BE INCLUDED IN THE PRICE BID OF VARIOUS ITEMS.

CONSTRUCTION ON THIS PROJECT MAY NOT BEGIN UNTIL THE EASEMENTS INDICATED HAVE BEEN RECORDED BY THE CITY.

THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A PAVING GUARANTEE.

ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE.

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

THE CONTRACTOR SHALL ENSURE THAT THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECK WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIMES CONVENIENT TO THE CONTRACTOR.

THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:

- 1. PROPER PLACEMENT OF EACH STRUCTURE
- 2. PROPER INSTALLATION OF PIPE RUNS.
- 3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
- 4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10"). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN INCHES (18").

UTILITY POLES WITHIN THE INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES.

ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.

RESTORATION:

ALL SIGNS, FENCES, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ITEM 659 SEEDING AND MULCHING, AS PER PLAN

ITEM 659 COMMERCIAL FERTILIZER AND 659 WATER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 659 SEEDING AND MULCHING, AS PER PLAN.

GENERAL NOTES (CONT.):

THE FLOW IN ALL SEWERS. DRAINS, FIELD TILES, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS 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 EXPENSE TO A CONDITION SATISFACTORY TO THE OWNER AND THE CITY.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASE OF NEGLIGENT OR WILLFUL DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL

THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL STATE, AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS INCLUDING EMPLOYEES AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR TO INITIATE. MAINTAIN. AND SUPERVISE ALL SAFETY REQUIREMENTS. PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

RIGHTS-OF-WAY: IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, 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.

EXTRA COMPENSATION: NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED ON THE PLANS, BUT PAYMENT SHALL BE DEEMED TO BE INCLUDED AMONG THE SEVERAL ITEMS, AS BID UPON, UNLESS OTHERWISE SPECIFICALLY PROVIDED.

SANITARY FACILITIES: THE CONTRACTOR SHALL FURNISH AND MAINTAIN SANITARY CONVENIENCE FACILITIES FOR THE WORKERS AND INSPECTORS FOR THE DURATION OF THE WORK.

NON-RUBBER TIRED VEHICLES: NO NON-RUBBER TIRED VEHICLES SHALL BE MOVED ON PUBLIC STREETS. EXCEPTIONS MAY BE GRANTED WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING FROM THE CITY ENGINEER AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY OF COLUMBUS.

SAWING PAVEMENT: WHERE NECESSARY TO DISTURB PAVEMENTS OR DRIVES, THE PAVEMENT SHALL BE SAW CUT FULL DEPTH IN NEAT, STRAIGHT LINES. IF, DURING CONSTRUCTION, THE PAVEMENT IS DAMAGED BEYOND THE ORIGINAL SAW CUT, THE PAVEMENT SHALL BE RE-CUT TO NEAT LINES.

CURBS AND SIDEWALKS: ALL CURBS AND SIDEWALKS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED USING THE SAME TYPE MATERIAL AND OF THE SAME DIMENSIONS AS THAT REMOVED. CLASS "C' CONCRETE AS SPECIFIED UNDER ITEM 499 SHALL BE USED FOR ALL CONCRETE WORK. SIDEWALKS SHALL BE REMOVED FROM EXISTING JOINTS AND REPLACED IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING 2300.

EXCAVATION: WHEN EXCAVATING WITHIN THE PUBLIC RIGHT-OF-WAY LIMITS IN THE CITY OF COLUMBUS CORPORATION LINE, IT IS NECESSARY TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF PLANNING AND OPERATIONS PERMIT OFFICE BY CALLING (614-645-7497) DURING THE HOURS OF 7:30 TO 5:00 MON-FRI. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION PERMIT AND ANY OTHER REQUIRED PERMITS

CLEAN-UP: THE CONTRACTOR SHALL CLEAN-UP ALL DEBRIS AND MATERIALS RESULTING FROM THIS OPERATION AND SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION AND ELEVATION. ANY DIRT, SEDIMENT, OR MUD DEPOSITED ON CITY STREETS ON OR OFF THE PROJECT SITE SHALL IMMEDIATELY BE CLEANED BY THE CONTRACTOR.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATIONS OR SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. SUBSURFACE INVESTIGATIONS WERE NOT MADE BY THE ENGINEER. PRIOR TO ANY SUBSURFACE INVESTIGATION OF ON-SITE EXAMINATION OF THE PROJECT, BIDDERS SHALL OBTAIN APPROVAL FROM THE OWNERS.

INSPECTION OF THE PROJECT SHALL BE PROVIDED BY REPRESENTATIVES OF THE CITY OF COLUMBUS.

THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS. AN ORIGINAL PERMIT, WITH RED SIGNATURES, SHALL BE KEPT ON SITE AT ALL TIMES.

WHEN OCCUPYING OR EXCAVATING WITHIN PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY, PHONE: (614) 645-7497: FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV

EXISTING UTILITIES:

EXISTING UTILITIES BENEATH THE PARKING LOT (GAS, ELECTRIC, LIGHT POLE POWER CABLES, AND WATER SERVICES, ETC.) SHALL BE LOCATED PRIOR TO PAVEMENT REMOVAL. CARE SHALL BE TAKEN DURING DEMOLITION AND CONSTRUCIOTN SO THAT THESE UTILITIES WILL NOT BE DAMAGED. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. TEMPORARY SERVICE SHALL BE PROVIDED WITHIN 4 HOURS AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

EXISTING LIGHT POLES:

EXISTING LIGHT POLES AND LIGHT POLE FOUNDATIONS SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED ON THE PLANS. LIGHT POLES SHALL BE HELD AND SUPPORTED WHEN CONSTRUCTION IS WITHIN TEN (10) FEET OF A LIGHT POLE. ANY DAMAGE (INCLUDING TILTING) TO AN EXISTING LIGHT POLE OR FOUNDATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

AS-BUILTS:

AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEYS TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORM WATER DETENTION BASINS AND WETLANDS THAT ARE TO BE OWNED AND OPERATED BY THE CITY. AT THE COMPLETION OF HOME CONSTRUCTION, THE OWNER/DEVELOPER SHALL FIELD SURVEY THE STORM WATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY ITEM 604 - MANHOLE, TYPE C (AA-S102) W/ AA-S112 BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.

ITEM 611 18" AND 21" CONDUIT, TYPE B, AS PER PLAN

CONDUITS SHALL BE AS PER CITY OF COLUMBUS ITEM 901 18" OR 21" STORM PIPE, W/TYPE I BEDDING AND ITEM 912 PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. COMPACTED GRANULAR BACKFILL (HDPP PER 720.13).

PAVEMENT CUTTING, SAWING AND EXCAVATION OPERATIONS NOTE:

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

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

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

THE PUBLIC AGENCY AND/OR PRIVATE CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING THAT THE INLET PROTECTION IS ADEQUATE. THE MOST STRINGENT PROJECT PLANS, NOTES AND/OR DRAWINGS INCLUDING STORMWATER POLLUTION PREVENTION PLAN (SWP3) OR SPILL PREVENTION/REMEDIATION PLAN SHALL APPLY TO ALL PAVEMENT CUTTING, SAWING OR EXCAVATION OPERATIONS.

POWER NOTES:

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

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMSC MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT (LOTO) PROCEDURE, MIS-1, COPIES OF WHICH ARE AVAILABLE FROM DOP

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

STORM SEWER NOTES:

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION, IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2018.

ALL CONCRETE PIPE. STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY SEWER STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

COMPACTED GRANULAR MATERIAL, AS PER ITEM 912 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS, IS REQUIRED IN ALL TRENCHES UNDER PAVEMENT WITHIN PUBLIC RIGHT-OF-WAY OR WHERE THE FRONT FACE OF TRENCHES, PARALLELING THE PAVEMENT, ARE WITHIN 36" OF THE FACE OF CURB OR EDGE OF PAVEMENT. THE MATERIAL WILL EXTEND LATERALLY 36" BEYOND THE FACE OF CURB OR EDGE OF PAVEMENT FOR TRENCHES WHICH CROSS THE PAVEMENT. ELSEWHERE WITHIN THE RIGHT-OF-WAY, TRENCHES SHALL BE BACKFILLED AS PER ITEM 911 (STORM SEWERS) AND AS PER ITEM 801.09 (WATER MAINS).

THE PONDING OR DETENTION OF AREAS SHOWN ON THE PLANS ARE PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING OR DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

WHEN APPLICABLE ALL SEWERS OUTSIDE OF EASEMENTS, AS SHOWN ON THIS DRAWING ARE TO BE CONSTRUCTED AS A PRIVATE STORM SYSTEM, THEREFORE, THE CITY WILL NOT ASSUME MAINTENANCE THEREOF AFTER COMPLETION. STANDBY INSPECTION IS MANDATORY DURING CONSTRUCTION.

IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

ALL TYPE C MANHOLES WITH AN "AS PER PLAN" DESIGNATION SHALL BE PAID FOR AND INSTALLED AS PER CITY OF COLUMBUS ITEM 604 AND PER CITY OF COLUMBUS STANDARD DRAWING AA-S102. THE UNIT PRICE SHALL ALSO INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS AND APPLIANCES NECESSARY TO INSTALL ORIFICE PLATES AS CALLED OUT FOR IN THE PLANS AND AS

EROSION AND SEDIMENT CONTROL:

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NOS. ##-## OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

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

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

THE NPDES PERMIT HOLDER SHALL PROVIDE QUALIFIED PERSONNEL TO CONDUCT SITE INSPECTIONS ENSURING PROPER FUNCTIONALITY OF THE EROSION AND SEDIMENT CONTROLS. ALL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A 3" STORM EVENT OR GREATER THAT OCCURS OVER A 24 HOUR PERIOD. RECORDS OF THE SITE INSPECTIONS SHALL BE KEPT BY THE CONTRACTOR AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUIRED.

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

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 OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENT CONTROL REGULATION. ALL LAND DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS TO DETERMINE COMPLIANCE WITH CITY STANDARDS AND REGULATIONS. FAILURE TO COMPLY WITH THESE REGULATIONS MAY SUBJECT THE SITE TO ENFORCEMENT ACTION BY THE CITY. QUESTIONS REGARDING EROSION AND SEDIMENT CONTROL MAY BE REFERRED TO THE STORMWATER MANAGEMENT OFFICE AT 645-6311.

ON-SITE CONTACT: MARK MEADOWS

PHONE: 614-853-1738 E-MAIL: BUILTRITEMARK@GMAIL.COM

SITE IS TRIBUTARY TO: TRIBUTARY TO UNNAMED TRIBUTARY TO SCIOTO RIVER

ITEM 202: SPECIAL - PIPE CLEANOUT, 24" AND UNDER

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

ITEM SPECIAL: PIPE CLEANOUT, 24" AND UNDER 320 FT.

MAINTENANCE OF TRAFFIC CONSTRUCTION SEQUENCE:

PHASE 1. REMOVE EXISTING PAVEMENT, PER PLAN, FROM SOUTHERN PORTION OF PARKING LOT. FOR LIMITS, SEE SHEET 5. CONTRACTOR SHALL MAINTAIN ACCESS TO NORTHERN PORTION OF PARKING LOT.

PHASE 2. CONSTRUCT SOUTHERN PORTION OF PARKING LOT, EXCEPT FOR THE SURFACE COURSE, PER THE LIMITS SHOWN ON SHEET 5. CONTRACTOR SHALL MAINTAIN ACCESS TO NORTHERN PORTION OF PARKING LOT.

PHASE 3. REMOVE EXISTING PAVEMENT, PER PLAN, FROM NORTHERN PORTION OF PARKING LOT. FOR LIMITS, SEE SHEET 5. CONTRACTOR SHALL MAINTAIN ACCESS TO SOUTHERN PORTION OF PARKING LOT.

PHASE 4. CONSTRUCT NORTHERN PORTION OF PARKING LOT, EXCEPT FOR THE SURFACE COURSE, PER THE LIMITS SHOWN ON SHEET 5. CONTRACTOR SHALL MAINTAIN ACCESS TO SOUTHERN PORTION OF PARKING LOT. CONSTRUCT THE FLOOD ROUTING SWALE.

PHASE 5. ADD SURFACE COURSE OF PARKING LOT AND ADD OVERLAY TO DRIVEWAY AREA SHOWN ON SHEET 5. MAINTAIN ACCESS TO PARKING LOT WITH FLAGGERS.

PHASE 6. CLEAN UP SITE. REMOVE ANY SEDIMENT FROM CATCH BASINS AND MANHOLES.

PHASE 7. PERFORM SIGNING AND STRIPING OPERATIONS

MAINTENANCE OF TRAFFIC NOTES:

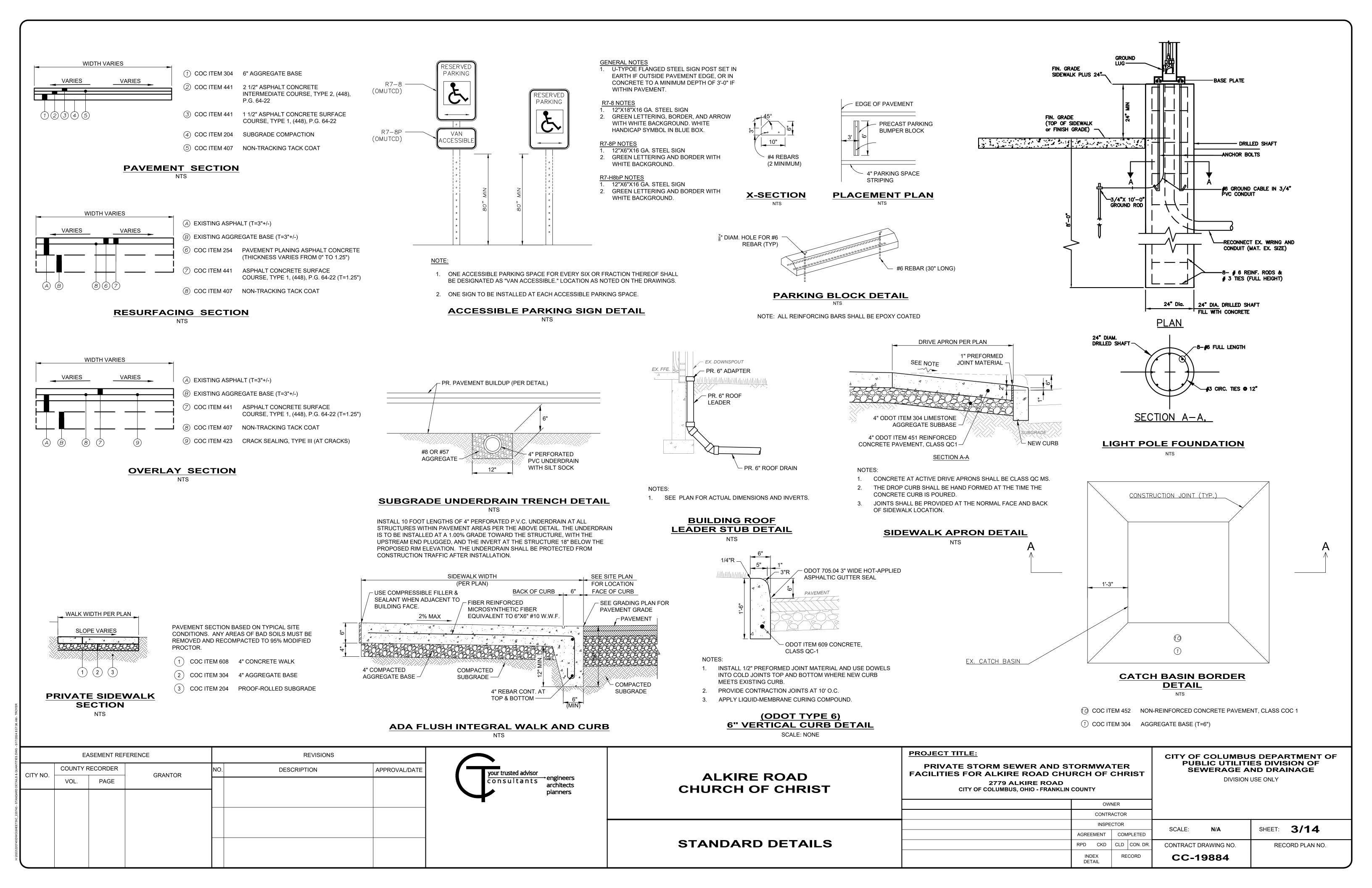
NO WORK SHALL BE DONE ON SUNDAYS NOR ON WEDNESDAY'S AFTER 6:00 PM CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC FROM THE PARKING LOT TO THE CHURCH BUILDING AT ALL TIMES.

PROJECT LEGEND:

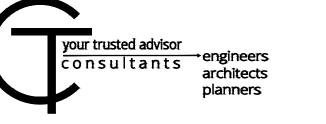
WANNE STANK	EX. BUSH	P	EX. ELEC POLE	0	PR. STORM MH	(WM)	EX. WATER METER
	EX. TREE	6	EX. LIGHT POLE	(1)	PR. STORM GRATED MH	\otimes	EX. WATER VALVE
	EX. TREE STUMP	ϕ	EX. POLE		PR. STORM 2x2 CB	ଷ	PR. FH
РВ	EX. PULL BOX		EX. STORM CB		PR. STORM C&G INLET	8	PR. WATER VALVE
\otimes	EX. GAS VALVE		EX. STORM C&G INLET	РВ	PR. ELEC PULLBOX	L.A.	PR. FIRE DEPARTMENT CONNECTION
[MB]	EX. MAILBOX		EX. STORM MH	•	PR. LIGHT POLE		EX. SANITARY MH
	EX. SIGN		PR. STORM MH W/ CURB & GUTTER GRATE	\bigcirc	EX. FH	- 0-	PR. TRAFFIC SIGN

PROJECT TITLE: EASEMENT REFERENCE REVISIONS CITY OF COLUMBUS DEPARTMENT OF **PUBLIC UTILITIES DIVISION OF** PRIVATE STORM SEWER AND STORMWATER COUNTY RECORDER **DESCRIPTION** APPROVAL/DATE SEWERAGE AND DRAINAGE **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST** GRANTOR CITY NO. **ALKIRE ROAD** DIVISION USE ONLY PAGE consultants VOL. **2779 ALKIRE ROAD** architects CHURCH OF CHRIST CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY planners OWNER CONTRACTOR INSPECTOR SHEET: 2/14 SCALE: N/A AGREEMENT COMPLETED **GENERAL NOTES** RPD CKD CLD CON. DF CONTRACT DRAWING NO. RECORD PLAN NO. RECORD CC-19884 **DETAIL**



ГЕМ#	QTY	UNIT	DESCRIPTION						
202	5300	SY	PAVEMENT REMOVED						
202	775	SF	WALK REMOVED						
202	475	FT	PIPE REMOVED, 24 INCH AND UNDER						
202	5	EA	CATCH BASIN REMOVED						
202	3	EA	INLET REMOVED (TRENCH DRAIN)						
202	320	FT	SPECIAL - PIPE CLEANOUT, 24" AND UNDER						
202	2	EA	LIGHT POLE REMOVED FOR STORAGE						
202	LS	EA	REMOVAL MISC.: MISC. SITE ITEMS (HAND RAIL)						
203	1200	CY	EXCAVATION						
203	735	CY	EXCAVATION, AS PER PLAN (UNDERGROUND STORAGE SYSTEM)						
203	130	CY	EMBANKMENT						
204	4950	SY	SUBGRADE COMPACTION						
204	4	HR	PROOF ROLLING						
252	350	FT	FULL DEPTH PAVEMENT SAWING						
254	450	SY	PAVEMENT PLANING, ASPHALT CONCRETE						
304	850	CY	AGGREGATE BASE (T = 6")						
407	550	GAL	NON-TRACKING TACK COAT						
423	500	FT	CRACK SEALING, TYPE III, AS PER PLAN						
441	270	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22 (T = AS SHOWN)						
441	365	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), T = 2.5"						
603	300	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS						
604	5	EA	CATCH BASINS (21-IN DIAM. AND SMALLER), CITY OF COLUMBUS, AA-S133A						
604	4	EA	MANHOLES, TYPE C, CITY OF COLUMBUS, AA-S102						
608	660	SF	4 INCH CONCRETE WALK						
608	325	SF	6 INCH CONCRETE WALK WITH INTEGRAL VEHICULAR CURB, AS PER PLAN						
608	50	SF	DETECTABLE WARNING, TYPE E						
609	35	FT	CURB, TYPE 6 (ODOT)						
611	165	FT	18" CONDUIT, TYPE B, AS PER PLAN						
611	35	FT	21" CONDUIT, TYPE B, AS PER PLAN						
611	1	EA	STORM OUTLET STRUCTURE, AS PER PLAN						
611	10550	CF	STORMWATER DETENTION CAPACITY WITH DESIGNED UNDERGROUND CHAMBER SYSTEM, AS PER PLAN						
623	1	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING						
624	' 1	LS	MOBILIZATION						
625	2	EA	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN						
625	2	EA	LIGHT POLE FOUNDATION, 24" X 8' DEEP, AS PER PLAN						
			GROUND MOUNTED SUPPORT, NO. 3 POST						
630	55	FT	SIGN, FLAT SHEET						
630	15	SF							
630	3	EΑ	REMOVAL OF GROUND MOUNTED BOST SUPPORT AND DISPOSAL						
630	3	EA	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL TRANSVERSE / DIACONAL LINE						
644	125	FT	TRANSVERSE / DIAGONAL LINE						
644	2750	FT	PARKING LOT STALL MARKING						
644	5	EA	HANDICAP SYMBOL MARKING						
659	380	SY	SEEDING & MULCHING, AS PER PLAN						
680	1 	LS	AS-BUILT SURVEY & ENGINEERING CERT. OF POST-CONSTRUCTION STORMWATER CONTROL PRACTICE						
690	5	EA	SPECIAL - CONCRETE PARKING BLOCK						
832	500	SY	CONSTRUCTION SEEDING AND MULCHING						
832	100	CY	SEDIMENT REMOVAL (ALL OTHER BMPS)						
832	8	EA	INLET PROTECTION						
832	1050	LF	STRAW WATTLE						
901	66	FT	12" STORM PIPE, W / TYPE I BEDDING & ITEM 912 COMPACTED GRANULAR BACKFILL (HDPP PER 720.13)						
901	77	FT	15" STORM PIPE, W / TYPE I BEDDING & ITEM 912 COMPACTED GRANULAR BACKFILL (HDPP PER 720.13)						

EASEMENT REFERENCE					REVISIONS				
CITY NO.	COUNTY F	RECORDER	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE			
CITT NO.	VOL. PAGE		GIVANTOR						



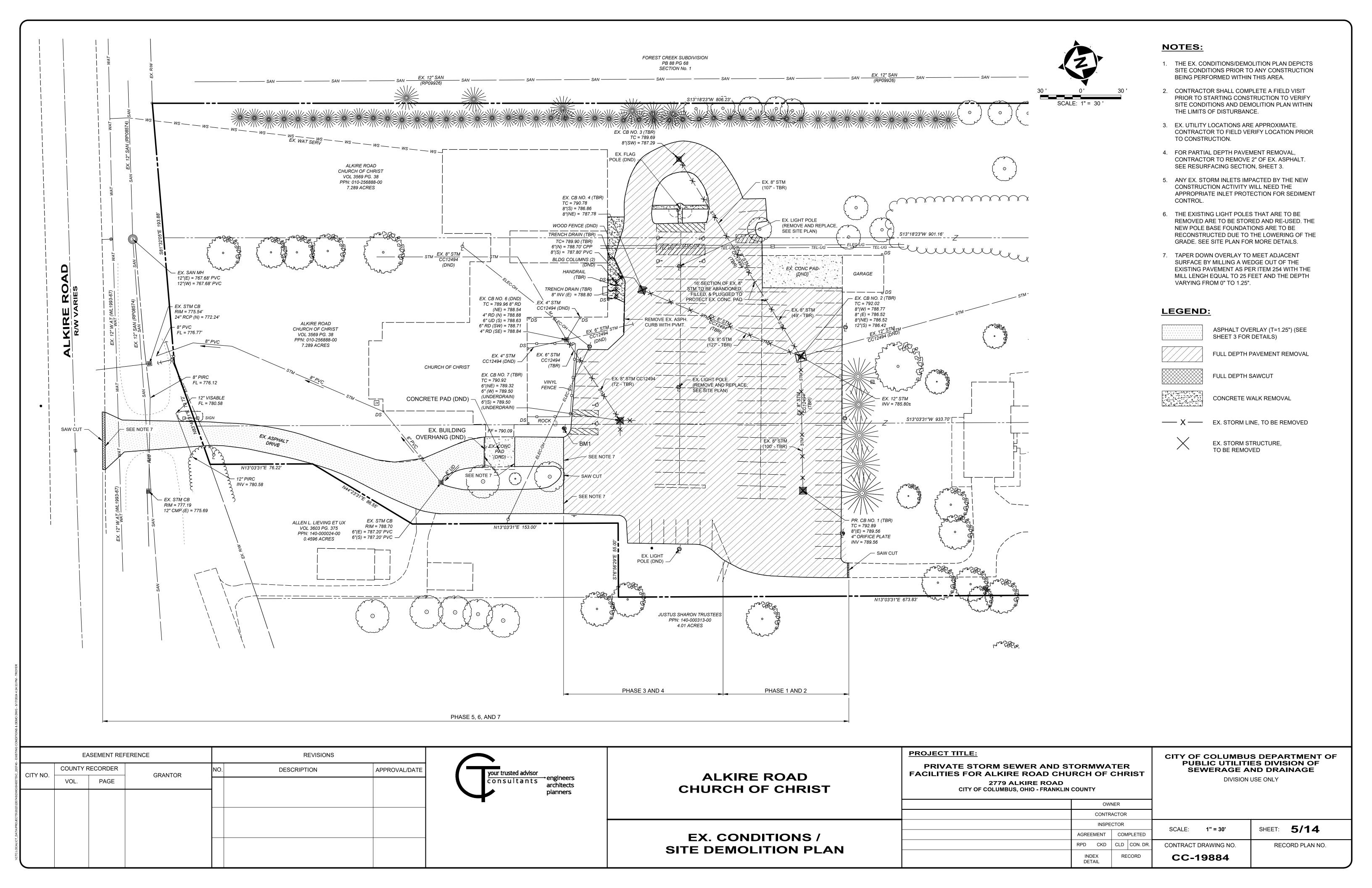
ALKIRE ROAD CHURCH OF CHRIST **PROJECT TITLE:** PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST 2779 ALKIRE ROAD
CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY

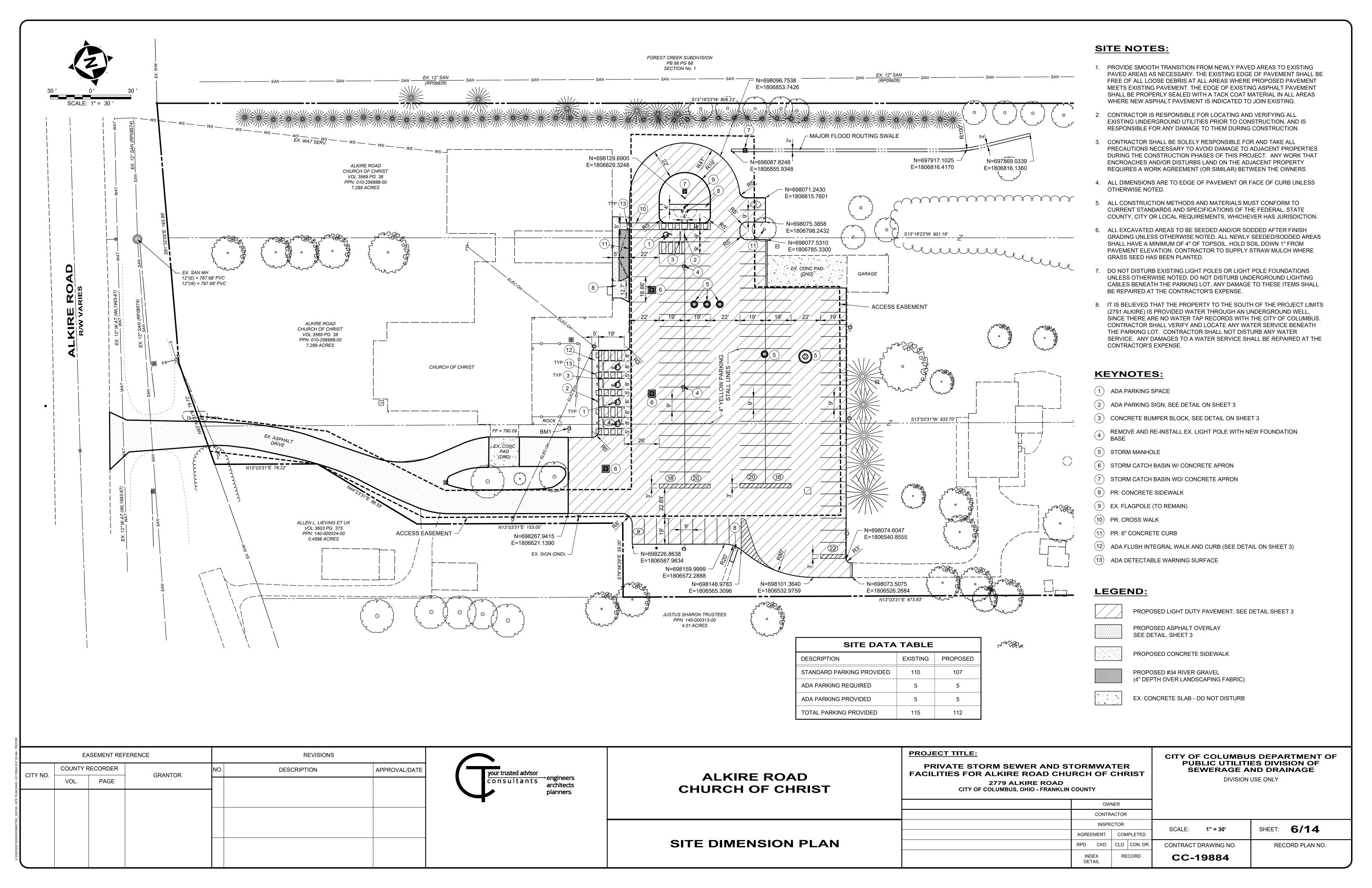
CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

QUANTITIES

CONTRACTOR INSPECTOR SHEET: **4/14** SCALE: AGREEMENT COMPLETED RPD CKD CLD CON. DR. CONTRACT DRAWING NO. RECORD PLAN NO. INDEX DETAIL RECORD CC-19884





PROJECT INFORMATION						
ENGINEERED PRODUCT MANAGER						
ADS SALES REP						
PROJECT NO.						





ALKIRE ROAD CHURCH STORM IMPROVEMENTS

GROVE CITY, OH, USA

SC-740 STORMTECH CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH SC-740.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS. THE STRUCTURAL BACKFILL. AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE
- DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS: THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
- THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- 9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

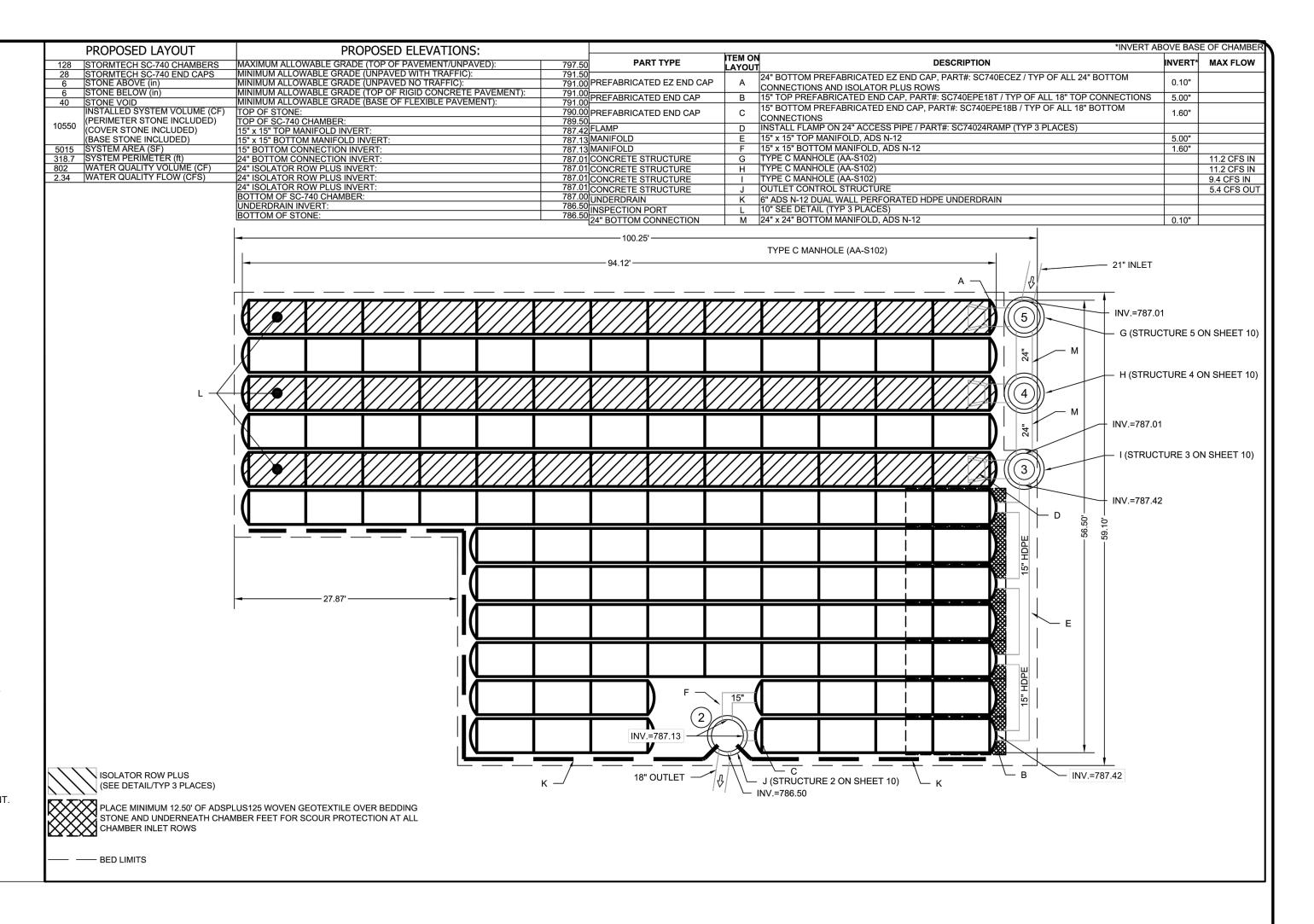
- STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
- STORMTECH RECOMMENDS 3 BACKFILL METHODS: STONESHOOTER LOCATED OFF THE CHAMBER BED.
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- 9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE
- WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



UNDERGROUND DETENTION QUANTITIES									
SPEC	970	LF	UNDERGROUND DETENTION: CHAMBER, 51" X 30", AS PER PLAN						
SPEC	28	EA	UNDERGROUND DETENTION: END CAP						
SPEC 1 EA			UNDERGROUND DETENTION: 15" X 15" MANIFOLD						
SPEC 1 EA			UNDERGROUND DETENTION: 24" X 24" MANIFOLD						
SPEC	1	EA	UNDERGROUND DETENTION: 24" ACCESS PIPE						
SPEC	1	EA	UNDERGROUND DETENTION: 15" CONNECTOR						
SPEC	3	EA	UNDERGROUND DETENTION: INSPECTION PORT						
SPEC	120	LF	UNDERGROUND DETENTION: 6" UNDERDRAIN						
SPEC	432	CY	STONE DETENTION STORAGE FOR UNDERGROUND DETENTION SYSTEM, CMSC SPEC.						
SPEC	1	LS	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION OF POST-CONSTRUCTION STORMWATER CONTROL PRACTICE						

ITEM 611 STORMWATER DETENTION CAPACITY WITH DESIGNED UNDERGROUND DETENTION CHAMBER SYSTEM, AS PER PLAN:

THIS ITEM INCLUDES ALL ITEMS IN THE ESTIMATE OF QUANTITIES TABLE ABOVE AND ANY ITEMS WHICH ARE NOT LISTED SUCH AS GEOTEXTILE FABRIC, MISCELLANEOUS PIPES, CONCRETE, ETC. AND ALL LABOR ASSOCIATED WITH CONSTRUCTING THE UNDERGROUND STORAGE SYSTEM. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE ESTIMATE OF QUANTITIES FOR THIS

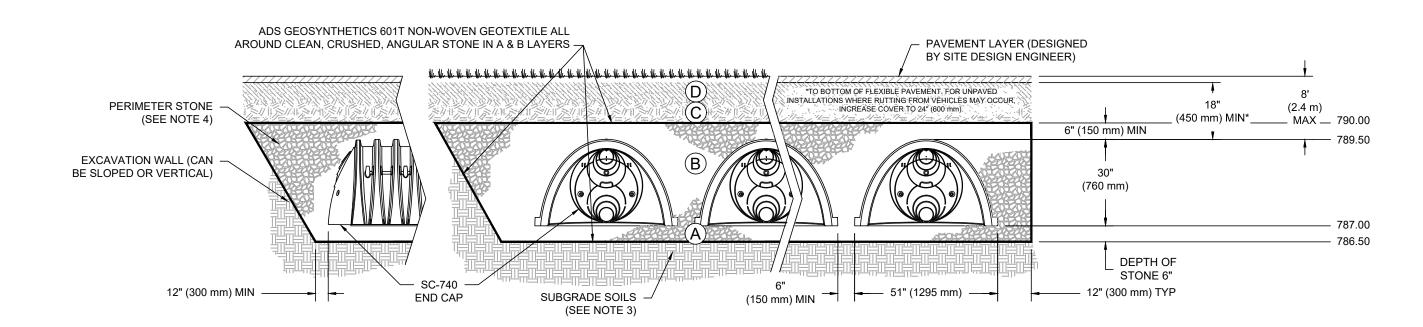
611 STORMWATER DETENTION CAPACITY WITH DESIGNED UNDERGROUND CHAMBER SYSTEM, AS PER PLAN 10550 CF

STEM DETA	EASEMENT REFERENCE		REVISIONS				PROJECT TITLE:		CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF			
CIT ORAGE SY		COUNTY RECORDER GRANTOR NO. DESCRIPTION APPROVAL/DATE your trusted advisor		ALKIRE ROAD	PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST		SEWERAGE AND DRAINAGE					
ERGROUND ST	\ \/	VOL. PAGE					consultants engineers architects planners	CHURCH OF CHRIST	2779 ALKIRE ROAD CITY OF COLUMBUS, OHIO - FRANKLII		DIVISION	USE ONLY
45 - UND										OWNER		
.C_22074										CONTRACTOR		
SHEETS										INSPECTOR	SCALE: AS NOTED	SHEET: 7/14
DWGIS								UNDERGROUND STORAGE		AGREEMENT COMPLETED	SOMEE. NO NOTES	
1220745								SYSTEM DETAILS		RPD CKD CLD CON. DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
H:\2022								3131LW DETAILS		INDEX RECORD DETAIL	CC-19884	

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

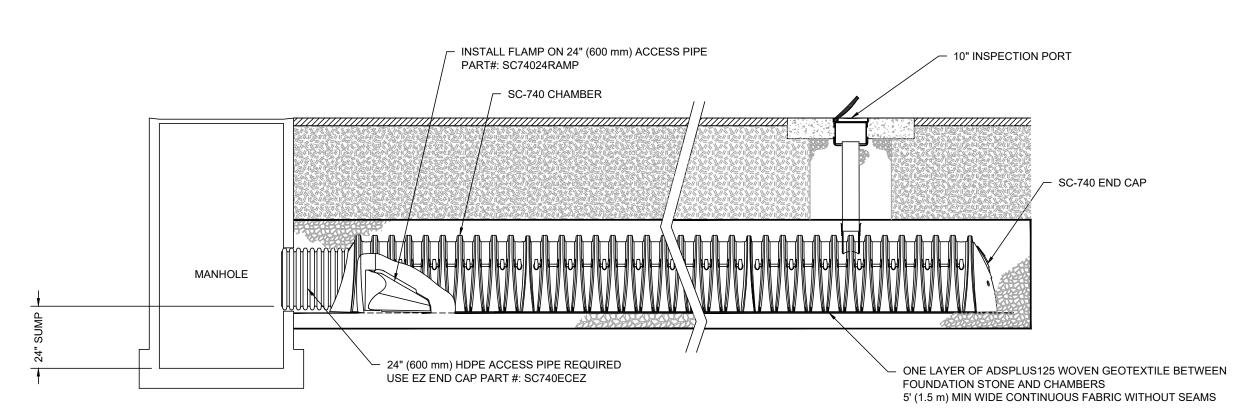
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	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).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR
- COMPACTION REQUIREMENTS. 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D . CONFIRM WITH THE ENGINEER PRIOR TO PLACEMENT.



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 3. SUBGRADE PREPARATION AND COMPACTION SHALL BE PERFORMED PER COC ITEM 204.
- 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

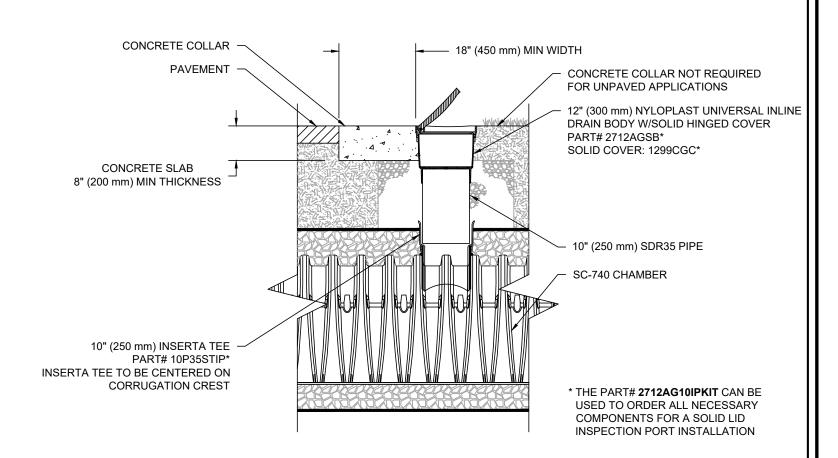


SC-740 ISOLATOR ROW PLUS DETAIL

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT A. INSPECTION PORTS (IF PRESENT)
 - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS
 - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY i) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
 - A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY



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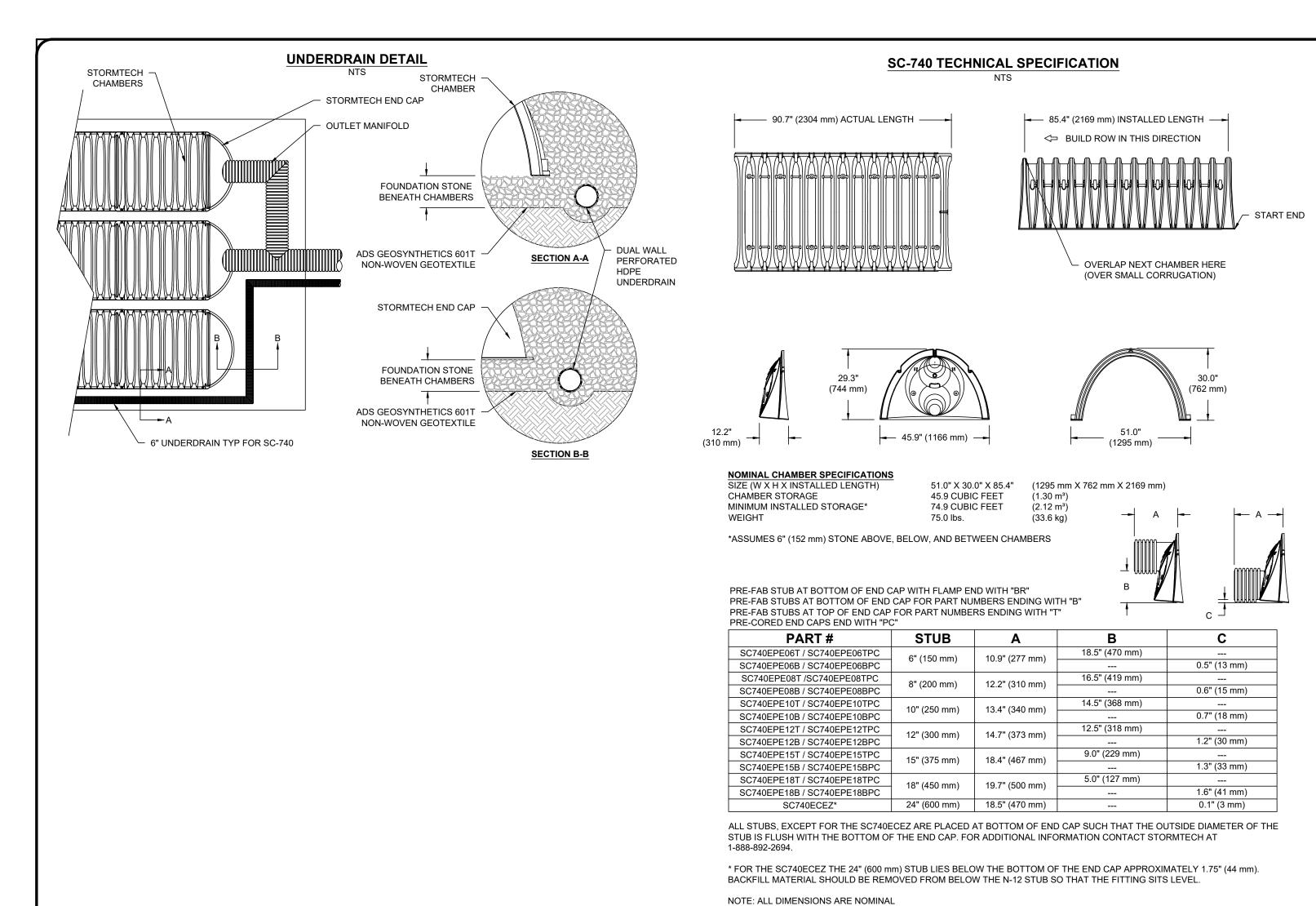


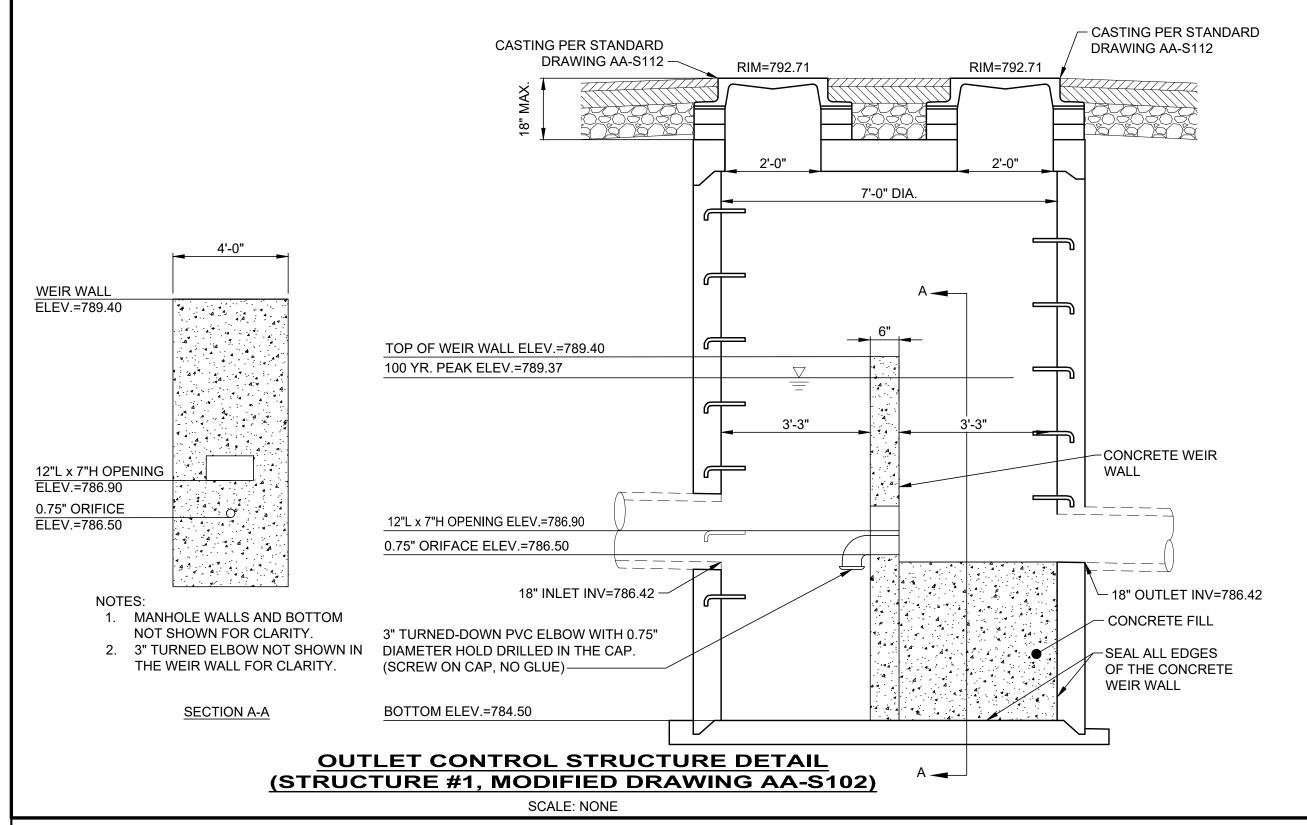
ALKIRE ROAD CHURCH OF CHRIST **PROJECT TITLE:** PRIVATE STORM SEWER AND STORMWATER **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST**

2779 ALKIRE ROAD CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY CITY OF COLUMBUS DEPARTMENT OF **PUBLIC UTILITIES DIVISION OF** SEWERAGE AND DRAINAGE DIVISION USE ONLY

UNDERGROUND STORAGE SYSTEM DETAILS

		IWO	NER				
		CONTR	ACTOR				
	INSPECTOR			SCALE: AS NOTED	SHEET: 8/14		
	AGRE	EMENT	COM	PLETED	SCALL. AS NOTED	SHEET.	0/14
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	INDEX DETAIL		RECORD		CC-19884		

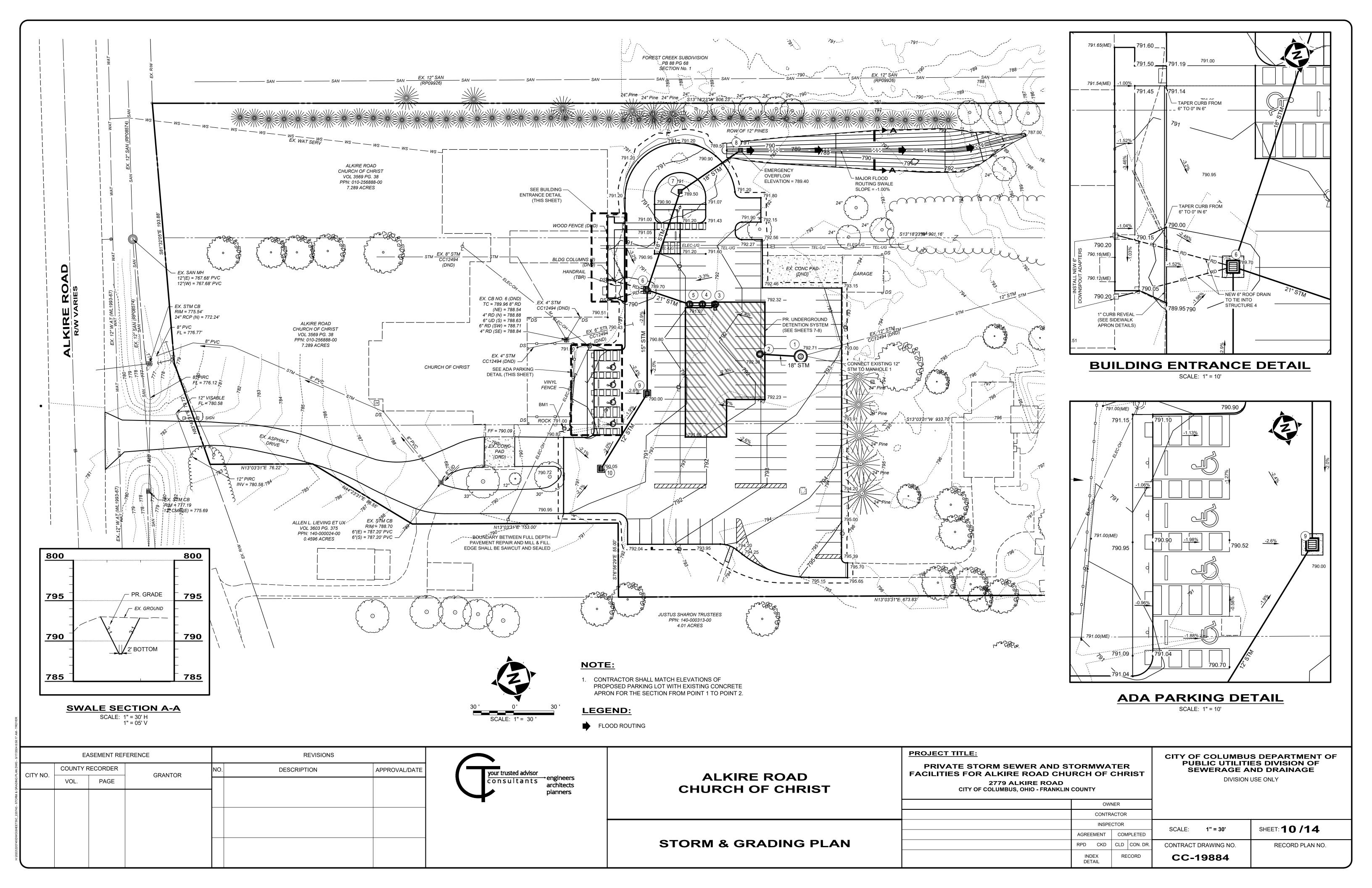


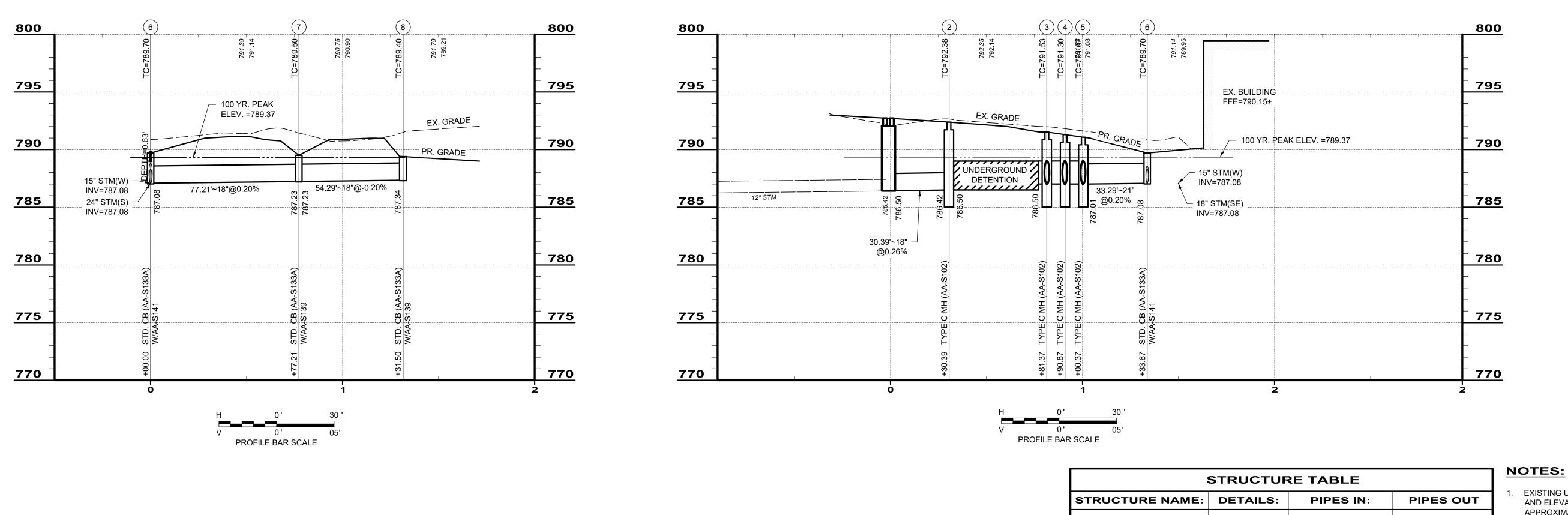


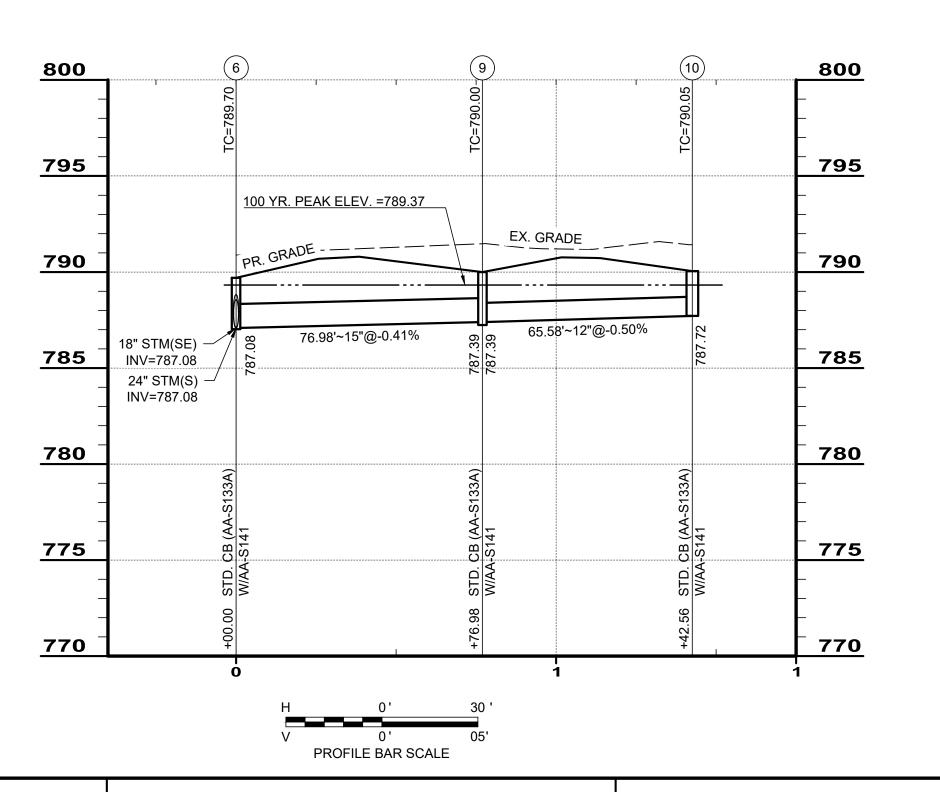
NOTE:

THE PROPERTY OWNER, ITS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL MAINTAIN THE STORMWATER CONTROL FACILITY OR FACILITIES IN GOOD WORKING CONDITION ACCEPTABLE TO THE CITY AND IN ACCORDANCE WITH THE SCHEDULE OF LONG-TERM MAINTENANCE ACTIVITIES IN THE STORMWATER CONTROL FACILITY MAINTENANCE PLAN. THE PROPERTY OWNER SHALL MAINTAIN COPIES OF COMPLETE, DATED AND SIGNED INSPECTION CHECKLISTS IN A MAINTENANCE INSPECTION LOG, ALONG WITH RECORDED DATES AND DESCRIPTIONS OF MAINTENANCE ACTIVITIES PERFORMED BY THE PROPERTY OWNER TO REMEDY THE DEFICIENCIES OBSERVED DURING PRIOR INSPECTIONS. THE MAINTENANCE INSPECTION LOG SHALL BE KEPT ON THE PROPERTY AND SHALL BE MADE AVAILABLE TO THE CITY UPON REQUEST.

EASEMENT REFERENCE		REVISIONS			PROJECT TITLE:		CITY OF COLUMBUS DEPARTMENT OF
CITY NO.	COUNTY RECORDER VOL. PAGE GRANTOR	NO. DESCRIPTION AP	your trusted advisor c o n s u t a n t s engineers architects planners	ALKIRE ROAD CHURCH OF CHRIST	PRIVATE STORM SEWER AND STOF FACILITIES FOR ALKIRE ROAD CHURCH 2779 ALKIRE ROAD CITY OF COLUMBUS, OHIO - FRANKLIN CO	CH OF CHRIST	PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY
- 51 - UND						OWNER	
2_22074						CONTRACTOR	
HEETS						INSPECTOR	SCALE: AS NOTED SHEET: 9/14
DWG\S				UNDERGROUND STORAGE	A	AGREEMENT COMPLETED	SOALE. AS NOTED SILET. 9714
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RIM = 792.711, 18" INV IN =786.42 SUMP = 786.4 1 INV IN = 786.42 EX 1, 12" INV IN =786.42 INV IN = 786.42 RIM = 792.38SUMP = 785.0 2, 30" INV IN =786.50 1, 18" INV OUT =786.50 INV IN = 786.50 INV OUT = 786.50 RIM = 791.534, 24" INV OUT =787.01 SUMP = 785.0 INV OUT = 787.01 3, 24" INV OUT =787.01 INV OUT = 787.01 RIM = 791.30SUMP = 785.0 4 4, 24" INV IN =787.01 5, 24" INV OUT =787.01 INV IN = 787.01 INV OUT = 787.01 RIM = 791.076, 21" INV IN =787.01 SUMP = 785.0 5 INV IN = 787.01 5, 24" INV IN =787.01 INV IN = 787.01 RIM = 789.70SUMP = 787.0 9, 15" INV OUT =787.08 6 7, 18" INV IN =787.08 INV IN = 787.08 6, 21" INV OUT =787.08 INV OUT = 787.08 INV OUT = 787.08 RIM = 789.507, 18" INV OUT =787.23 SUMP = 787.28, 18" INV OUT =787.23 INV OUT = 787.23 INV OUT = 787.23 RIM = 789.408, 18" INV IN =787.34 SUMP = 787.3INV IN = 787.34 RIM = 790.00SUMP = 787.2 7 9, 15" INV IN =787.39 10, 12" INV OUT =787.39 INV IN = 787.39 INV OUT = 787.39 RIM = 790.058 10, 12" INV IN =787.72 SUMP = 787.7 INV IN = 787.72

EXISTING UTILITY LOCATIONS

AND ELEVATIONS ARE AN APPROXIMATION. CONTRACTOR

TO FIELD VERIFY PRIOR TO

INSTALLATION OF STORM

FOR ADS UNDERGROUND

DETENTION DETAILS, SEE

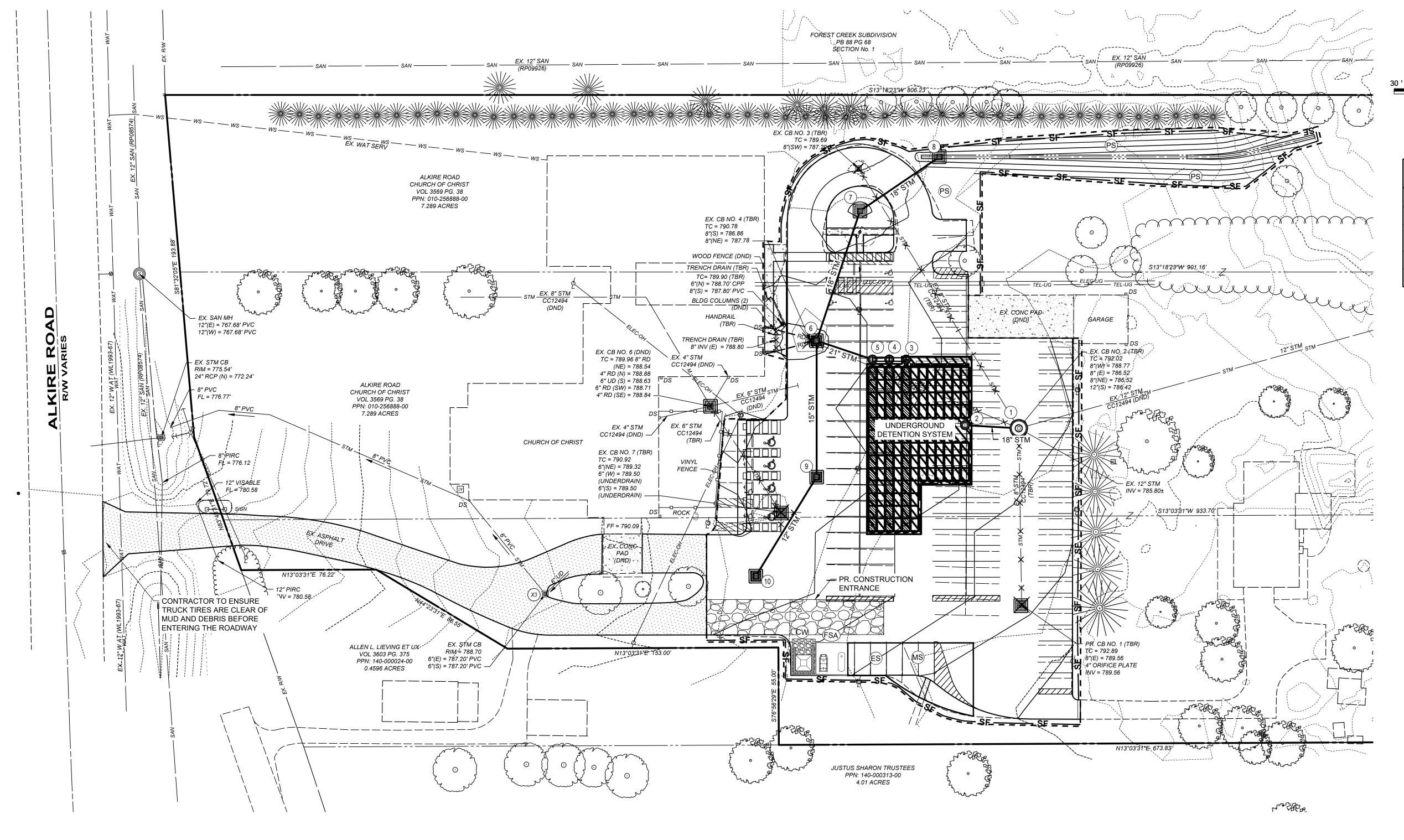
AS PER CMS ITEM 912

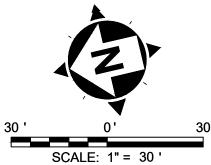
* COMPACTED GRANULAR BACKFILL

SEWER.

SHEETS 7-8.

PROJECT TITLE: EASEMENT REFERENCE REVISIONS CITY OF COLUMBUS DEPARTMENT OF **PUBLIC UTILITIES DIVISION OF** PRIVATE STORM SEWER AND STORMWATER COUNTY RECORDER APPROVAL/DATE DESCRIPTION SEWERAGE AND DRAINAGE your trusted advisor **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST** CITY NO. GRANTOR **ALKIRE ROAD** →engineers architects planners DIVISION USE ONLY consultants PAGE VOL. 2779 ALKIRE ROAD **CHURCH OF CHRIST** CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY CONTRACTOR INSPECTOR SHEET: **11/14** SCALE: **H: 1"=30', V: 1"-5'** AGREEMENT COMPLETED **STORM PROFILES** RPD CKD CLD CON. DR. CONTRACT DRAWING NO. RECORD PLAN NO. RECORD CC-19884 DETAIL





I	EROSION & SEDIMENT CONTROL ESTIMATE OF QUANTITIES										
ITEM#	QTY	UNIT	DESCRIPTION								
832	500	SY	CONSTRUCTION SEEDING AND MULCHING								
832	1050	LF	STRAW WATTLES (PERIMETER FILTER FABRIC FENCE)								
832	8	EA	INLET PROTECTION								
832	100	CY	SEDIMENT REMOVAL								

SWPPP LEGEND

STRAW WATTLES (PERIMETER FILTER FABRIC FENCE) INLET PROTECTION CONSTRUCTION LIMITS/ EARTH

DISTURBED AREA PAVEMENT OVERLAY (SEE SHEET 3) **EQUIPMENT STORAGE**

MATERIAL STORAGE CONCRETE WASHOUT FUEL STORAGE AREA

PERM. SEEDING

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ALKIRE ROAD CHURCH OF CHRIST

SWPPP

PRIVATE STORM SEWER AND STORMWATER **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST** 2779 ALKIRE ROAD
CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY

PROJECT TITLE:

DIVISION USE ONLY

305, OHIO - FRANKLIN	COUNTY				
	OW	NER			
	CONTR	RACTOR			
	INSPE	CTOR		SCALE: 1" = 30'	SHEET: 12/14
	AGREEMENT	COM	IPLETED	COALL: 1 - 00	
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CITY OF COLUMBUS DEPARTMENT OF **PUBLIC UTILITIES DIVISION OF**

SEWERAGE AND DRAINAGE

SITE INFORMATION PROJECT INFORMATION: 2779 ALKIRE ROAD GROVE CITY, OHIO 43123 LATITUDE: 39.9158 LONGITUDE: 83.0766 OWNER INFORMATION: ALKIRE ROAD CHURCH OF CHRIST 2779 ALKIRE ROAD GROVE CITY, OHIO 43123 CONTACT PERSON: MARK MEADOWS PHONE: (614) 853-1738 EMAIL: BUILTRITEMARK@GMAIL.COM SITE-CIVIL ENGINEER INFORMATION: CT CONSULTANTS, INC. 1001 LAKESIDE AVE. E, SUITE 1005 CLEVELAND, OHIO 44114 CONTACT: WILLIAM VASKO, PE PHONE: 216-430-8503 EMAIL: WVASKO@CTCONSULTANTS.COM TYPE OF CONSTRUCTION: () NEW TYPE OF PROJECT:

() MAINTENANCE (X)REDEVELOPMENT () RETAIL (X) COMMUNITY () MIXED USE () OFFICE () RECREATION () RESIDENTIAL () MEDICAL () PUBLIC SAFETY () RESTAURANT

() EDUCATION

() INDUSTRIAL

DESCRIPTION OF PROJECT:

() UTILITY

() ROAD

THE PROJECT INCLUDES A CHURCH PARKING LOT RESTORATION, CONSTRUCTION TO INCLUDE GRADING, STORM SEWER/STRUCTURE AND SWP3 IMPLEMENTATION

() APARTMENT

() MANUFACTURING

SOIL DISTURBING ACTIVITIES INCLUDE:

EROSION AND SEDIMENT CONTROL INSTALLATION; REMOVAL OF EXISTING PAVEMENT, STORM SEWER UTILITIES AND SOIL BENEATH GRAVEL PAVEMENT; EARTHWORK GRADING; AND INSTALLATION OF NEW UNDERGROUND STORM WATER MANAGEMENT SYSTEM, AND CONCRETE SIDEWALK.

DESCRIPTION OF PRIOR LAND USE:

THE EXISTING PROPERTY HAS A CHURCH WITH SEVERAL OUT BUILDINGS AND ASPHALT PARKING LOTS.

SITE AREA INFORMATION:

TOTAL PROPERTY AREA:	<u>7.19</u> AC.
PROJECT LIMIT/CONSTRUCTION AREA:	<u>1.59</u> AC.
AREA OF SOIL DISTURBANCE:	<u>1.32</u> AC.
EXISTING IMPERVIOUS AREA:	<u>1.01</u> AC.
PROPOSED IMPERVIOUS AREA:	<u>1.13</u> AC.
INCREASE/DECREASE OF IMPERVIOUS AREA:	: <u>9</u> %
PRE-CONSTRUCTION RUNOFF COEFFICIENT:	_89
POST-CONSTRUCTION RUNOFF COEFFICIENT	Γ: <u>91</u>

NAME OF RECEIVING STREAM. SURFACE WATER OR MS4 TRIBUTARY TO UNNAMED TRIBUTARY TO SCIOTO RIVER

QUALITY OF STORM WATER DISCHARGE FROM SITE: UNKNOWN

ESTIMATED CONSTRUCTION START DATE:	03/01/2024
ESTIMATED CONSTRUCTION COMPLETION DATE:	09/01/2024

PLAN CERTIFICATION

I, THE UNDERSIGNED, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGED THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWN VIOLATIONS

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ENGINEER	
	DATE:
OWNER/SITE OPERATOR	

EASEMENT REFERENCE

SOIL TYPES

NAME	DESCRIPTION	
СеВ	CELINA SILT LOAM, 2 TO 6 PERCENT SLOPES.	22.8%
CrB	CROSBY SILT LOAM, SOUTHERN OHIO TILL PLAIN, 2 TO 6 PERCENT SLOPES.	39.8%
MIC2	MIAMIAN SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES, ERODED.	37.4%

GENERAL NOTES

- THE CONTRACTOR SHALL REVIEW AND FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE CURRENT, ACTIVE OHIO EPA NPDES PERMIT NO. OHC000006.
- THIS SWP3 HAS BEEN PREPARED SHOWING THE ITEMS LISTED BELOW, BUT THE CONTRACTOR MAY NEED TO MOVE OR ADD ITEMS AS CONSTRUCTION PROGRESSES OR DURING THE VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO DEVELOP THE SWP3 FOR THIS PROJECT AND SUBMIT FOR APPROVAL TO THE SWCD SHOWING THE ITEMS LISTED BELOW. SOME ITEMS MAY ALREADY BE SHOWN ON THE SWP3. BUT MOVED TO BETTER SUIT THE CONTRACTOR'S MEANS AND METHODS.
 - LIMITS OF EARTH DISTURBING ACTIVITY
 - CONSTRUCTION ENTRANCE(S)
 - EROSION AND SEDIMENT CONTROL MEASURES
- CONCRETE WASHOUT PIT(S)
- EQUIPMENT STAGING
- FUEL STORAGE AND VEHICLE FUELING AREA
- CONSTRUCTION TRAILER(S)
- SANITATION FACILITY
- MATERIAL STOCKPILE LOCATION(S)
- ANY OTHER EROSION CONTROL REQUIRED
- ALL WORK REQUIRED TO IMPLEMENT THE SW3P INCLUDING INSPECTION FEES, MAINTENANCE AND REPAIRS SHALL BE DONE BY AND AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL AMEND THE SW3P WHEN THERE IS A
- CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT REQUIRES INSTALLATION OF BMPS OR MODIFICATION TO EXISTING BMPS.
- ADDITIONAL OR DIFFERENT BMPS MAY BE NEEDED AS CONSTRUCTION PROGRESSES OR AS REQUIRED BY THE OWNER, SWCD OR OHIO EPA.
- PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE LAND DISTURBED AT ANY ONE TIME AND LEAVE EXISTING VEGETATION IN PLACE AS LONG AS POSSIBLE.

ADMINISTRATIVE NOTES

- AN OHIO EPA NPDES PERMIT IS REQUIRED WHERE CONSTRUCTION ACTIVITIES DISTURB 1 OR MORE ACRES OF LAND, OR SMALLER SITES LESS THAN 1 ACRE THAT ARE PART OF A LARGER COMMON DEVELOPMENT. DISTURBED LAND IS LAND IN WHICH VEGETATION HAS BEEN CLEARED AND SOILS ARE EXPOSED TO STORM WATER. A NOI IS REQUIRED FOR THIS PROJECT AND MUST BE FILED WITH THE OHIO EPA AT LEAST 21 DAYS PRIOR TO THE START OF CONSTRUCTION BECAUSE THE TOTAL LAND DISTURBANCE IS GREATER THAN 1 ACRE.
- THE CONTRACTOR SHALL FOLLOW THE PRACTICES AND REQUIREMENTS PROVIDED IN THE OHIO EPA NPDES CONSTRUCTION SITE STORMWATER GENERAL PERMIT OHC000006 AND THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL, AND BE RESPONSIBLE FOR ALL NPDES TERMS AND CONDITIONS UNTIL A NOT IS FILED.
- NO CONSTRUCTION ACTIVITIES MAY BEGIN UNTIL ALL OF THE FOLLOWING OCCUR:
- OHIO EPA NPDES AUTHORIZATION LETTER RECEIVED
- THE CONTRACTOR FILES A CO-PERMITTEE APPLICATION TO THE OHIO EPA
- THE CONTRACTOR ATTENDS A PRE-CONSTRUCTION MEETING WITH THE SWCD TO DISCUSS OHIO EPA NPDES PERMIT REQUIREMENTS
- OHIO EPA APPLICATION FORMS (I.E. NOI. NOT. CO-PERMITTEE NOI/NOT, INDIVIDUAL LOT NOI/NOT AND PERMIT TRANSFER) ARE ONLY ACCESSIBLE ELECTRONICALLY VIA THE OHIO EPA STREAMS APPLICATION SUBMITTAL SYSTEM USING AN INDIVIDUAL EBUSINESS CENTER ACCOUNT. VISIT THE OHIO EPA'S ELECTRONIC BUSINESS SERVICES WEBSITE FOR MORE INFORMATION, GUIDANCE AND REPORTING QUESTIONS.
- THE CONTRACTOR SHALL SELECT INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND COMPLETING INSPECTION AND MAINTENANCE REPORTS. THE CONTRACTOR SHALL COMPLETE A "DELEGATION OF AUTHORITY FOR STORMWATER POLLUTION PREVENTION PLAN" AND PROVIDE A COPY TO THE OWNER AND SWCD.

REVISIONS

- ALL PROCEDURES AND REQUIREMENTS CONTAINED IN THIS SW3P APPLY TO ALL GENERAL AND SUBCONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT, INFORM, REQUIRE AND ENFORCE ALL ASPECTS AND PROCEDURES OF THE SW3P. THE CONTRACTOR SHALL HAVE ALL SUBCONTRACTORS THAT ARE OR MAY BE ENGAGED IN ACTIVITIES THAT COULD IMPACT STORMWATER COMPLETE A "SUBCONTRACTOR AGREEMENT FOR EROSION AND SEDIMENT CONTROL", AND PROVIDE A COPY TO THE OWNER AND SWCD. EACH CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL FINES, DAMAGES AND LIABILITY RESULTING FROM FAILURE TO PROVIDE THE REQUIRED POLLUTION CONTROL.
- THE CONTRACTOR SHALL KEEP ON-SITE COPIES OF THE NOI, NPDES, SW3P AND INSPECTION LOGS/REPORTS.
- ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBJECT TO INSPECTION BY THE SWCD AND OHIO EPA.

EROSION CONTROL NOTES

- SPECIAL MEASURES SHALL BE TAKEN TO STABILIZE DRAINAGE CHANNELS AND STORM WATER OUTFALLS.
- DIVERT SURFACE RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHEREVER PRACTICABLE.
- STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN THE TIME FRAMES IN THE FOLLOWING TABLES:

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY CONTROLS
AREA WITHIN 50 FEET OF A SURFACE WATER, NOT AT FINAL GRADE AND TO REMAIN IDLE MORE THAN 14 DAYS	WITHIN 2 DAYS OF MOST RECENT DISTURBANCE
ANY OTHER AREA TO BE DORMANT MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR	WITHIN 7 DAYS OF MOST RECENT DISTURBANCE
AREA TO REMAIN IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER
AREA TO BE PAVED	STABILIZE WITH STONE SUBBASE UNTIL PAVED

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY CONTROLS
AREA TO BE DORMANT FOR 1 YEAR OR MORE	WITHIN 7 DAYS OF MOST RECENT DISTURBANCE
AREA WITHIN 50 FEET OF A SURFACE WATER AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREA AT FINAL GRADE	WITHIN 7 DAYS OF REACHING FINAL GRADE

SEDIMENT CONTROL NOTES

- INLET PROTECTION AND SEDIMENT BARRIERS MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING.
- SEDIMENT PONDS, TEMPORARILY MODIFIED PERMANENT PONDS AND PERIMETER SEDIMENT BARRIERS MUST BE INSTALLED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF CLEARING AND GRUBBING, AND CONTINUE TO FUNCTION UNTIL ALL DISTURBED UPLAND AREAS ARE STABILIZED.
- SEDIMENT CONTROLS MUST POND RUNOFF TO BE CONSIDERED FUNCTIONAL.
- SEDIMENT-LADEN TRENCH OR GROUND WATER MUST PASS THROUGH A SEDIMENT-SETTLING POND OR BE DEWATERED IN-PLACE USING A SUMP PIT, FILTER BAG OR OTHER COMPARABLE METHOD, PRIOR TO DISCHARGE FROM THE SITE
- TRENCH AND GROUND WATER FREE FROM SEDIMENT OR OTHER POLLUTANTS MAY BE DISCHARGED WITHOUT TREATMENT. PROVIDED THIS WATER DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
- SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL.

OTHER WASTE CONTROL NOTES

- SOIL STOCKPILES SHALL BE RINGED WITH SILT FENCE ALONG THE BOTTOM FOOTPRINT. IF THE STOCKPILE WILL BE INACTIVE FOR 14 DAYS OR MORE, THE SURFACE SHALL BE SEEDED OR STABILIZED WITHIN 7 DAYS OF LAST DISTURBANCE.
- CONCRETE TRUCKS ARE NOT PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS. ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, MUST BE DISPOSED OF IN A CONCRETE WASHOUT AREA TO COLLECT AND HARDEN.
- OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES MUST BE MINIMIZED. THE CONTRACTOR SHALL SWEEP ALL ADJACENT ROADS TO REMOVE MUD, DIRT OR ROCK TRACKED FROM THE SITE AT THE END OF EACH WORK DAY OR AS REQUIRED DURING THE DAY. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A
- IT IS PROHIBITED TO BURN, BURY OR POUR ONTO THE GROUND OR INTO STORM INLETS, DITCHES, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS SOLID OR LIQUID WASTE INCLUDING TRASH, CONSTRUCTION DEBRIS, SOLVENTS, PAINT, DIESEL FUEL, GASOLINE, MOTOR OIL, HYDRAULIC FLUID, CEMENT CURING COMPOUND, ANTIFREEZE OR OTHER TOXIC OR HAZARDOUS WASTE. WASTE MATERIALS SHALL BE COLLECTED IN A SECURELY LIDDED DUMPSTER, DISPOSED OF IN AN APPROVED LANDFILL AND EMPTIED AS NECESSARY.
- FUEL TANKS, DRUMS AND OTHER CONTAINERS HOLDING CHEMICALS MUST BE STORED WITHIN A DIKED AREA WITH A VOLUME OF AT LEAST 110% OF THE LARGEST TANK. A DIKED AREA IS NOT NECESSARY IF A SELF-CONTAINED SPILL PROOF
- THE CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE. SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS 1 TIME PER WEEK, OR MORE OFTEN IF NECESSARY.
- ANY TOXIC OR HAZARDOUS MATERIAL SPILL, REGARDLESS OF SIZE, MUST BE REPORTED WITHIN 30 MINUTES TO THE LOCAL FIRE DEPARTMENT AND OHIO EPA.
- CONTAMINATED SOIL, SOIL WHERE CONSTRUCTION CHEMICALS HAVE BEEN SPILLED OR HAZARDOUS WASTE MATERIALS MUST BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
- STORM WATER THAT COMES IN CONTACT WITH CONTAMINATED SOIL OR HAS A VISIBLE SHEEN MUST BE COLLECTED BY A VACUUM TRUCK AND DISPOSED OF AS A WASTE WATER.

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES

THE DRAINAGE AREA GOING TO EACH INLET PROTECTION IS LESS THAN 1.0 ACRE, THEREFORE A SEDIMENT POND IS NOT REQUIRED.

- CONTRACTOR SUBMITS CONSTRUCTION SCHEDULE FOR CONSTRUCTION ACTIVITIES TO THE CITY AND DESIGN
- BEGIN INSPECTION, MAINTENANCE, RECORD KEEPING AND SITE POSTING OF BMPS.
- 3. ESTABLISH STAGING AREA AND NON-SEDIMENT BMPS 4. INSTALL SILT FENCE, INLET PROTECTION AND CONSTRUCTION
- ENTRANCE. BEGIN SITE DEMOLITION AND CONSTRUCTION. BEGIN EARTHWORK OPERATIONS TO ALLOW FOR INSTALLATION
- OF THE UNDERGROUND DETENTION SYSTEM. 7. INSTALL STORM SEWERS AND INLETS.
- 8. BEGIN GRADING OF THE SITE.
- INSTALL NEW ASPHALT PAVEMENT.
- 10. INSPECT AND CLEAN EXISTING AND NEW STORM SEWERS AND
- 11. APPLY PERMANENT SEED.
- 12. CONTINUE INSPECTIONS, MAINTENANCE, RECORD KEEPING, AND SITE POSTING UNTIL FINAL STABILIZATION ACHIEVED.
- 13. REMOVE TEMPORARY BMPS FROM STORM SEWER AND INLETS. AND OPEN GUTTERS AND DITCHES TO OBTAIN FREE DRAINAGE.
- DISPOSE OF ALL DEBRIS AND WASTE MATERIAL

TMDLS AND BMPS SELECTED

- APPLICABLE TMDLS FOR THE SITE: (X) HABITAT (X) PHOSPHORUS () AMMONIA (X) NITROGEN (X) BACTERIA () FLOW () SEDIMENT/TOTAL SUSPEND SOLIDS
- (X) DISSOLVED OXYGEN/ORGANIC ENRICHMENT THE FOLLOWING BMPS ARE SELECTED TO ADDRESS APPLICABLE TMDLS FOR THE PROJECT:

CONSTRUCTION SITE:

- () DEMARCATE PROTECTED AREA BEFORE CONSTRUCTION (X) MAINTAIN PORTABLE TOILET AND EMPTY W/OUT SPILL
- () PROPER STORAGE OF LANDSCAPE FERTILIZER
- (X) MS4 MONTHLY INSPECTIONS DURING CONSTRUCTION
- (X) RESOLVE NON-COMPLIANCE SW3P INSPECTION ITEMS () FINAL INSPECTION TO ENSURE BMP IMPLEMENTATION

TEMPORARY EROSION CONTROL:

- () CHECK DAMS () TEMPORARY DIVERSION
- () SLOPE DRAIN () STREAM UTILITY CROSSING () STREAM CROSSING () DEWATERING

- TEMPORARY SEDIMENT CONTROL () SEDIMENT BASIN () SEDIMENT TRAP () SILT FENCE (X) INLET PROTECTION
- (X) FILTER SOCK () FILTER BERM

SOIL STABILIZATION:

- (X) DUST CONTROL () PHASED DISTURBANCE (X) MULCHING (X) CLEARING AND GRUBBING
- () SODDING () TEMPORARY SEEDING (X) TOPSOILING (X) PERMANENT SEEDING
- () GRADE TREATMENT (X) CONSTRUCTION ENTRANCE
- () TEMPORARY ROLLED EROSION CONTROL PRODUCTS () TURF REINFORCEMENT MATTING
- () TREE AND NATURAL AREA PRESERVATION

PERMANENT EROSION CONTROL:

- (X) GRASSED SWALE () ROCK LINED CHANNEL
- () LEVEL SPREADER () ROCK OUTLET PROTECTION
- () DIVERSION () SUBSURFACE DRAIN
- POLLUTION PREVENTION AND GOOD HOUSEKEEPING:
- (X) ROUTINE FACILITY INSPECTIONS (X) VISUAL ASSESSMENT OF STORM WATER DISCHARGE
- () ANNUAL COMPREHENSIVE SITE INSPECTION
- () SWEEP PARKING LOT AND DRIVE LANES
- (X) CLEAN CATCH BASINS (X) STORE WASTE IN LIDDED CONTAINERS
- (X) LOCATE SNOW DISPOSAL AREAS AWAY FROM BMPS () ESTABLISH "PICK-UP PET WASTE" STATION

POST-CONSTRUCTION:

- () WETLAND SETBACK () STREAM SETBACK
- () WATER QUALITY POND () PERMEABLE PAVEMENT
- () GRASS FILTER STRIP () INFILTRATION TRENCH
- () TREE BOX FILTER () SAND FILTER
- () GREEN ROOF (X) LTMA
- () BIORETENTION AREA () CISTERN
- () BIORETENTION WITH INTERNAL WATER STORAGE
- (X) OPEN CHANNEL SWALES
- () WET EXTENDED DETENTION BASIN
- () DRY EXTENDED DETENTION BASIN WITH FOREBAY () RETROFIT SWMF TO TREAT WQV
- () RETROFIT SWMF TO INCREASE INFILTRATION
- () RETROFIT SWMF POND TO FUNCTION AS WETLAND

() SUBMIT LTMA ANNUAL MAINTENANCE REPORT TO MS4

(X) UNDERGROUND DETENTION SYSTEM TO TREAT WQV

(X) AS-BUILT POST-BMPS

PROJECT TITLE:

MAINTENANCE REQUIREMENTS

- BMPS SHALL BE MAINTAINED IN GOOD WORKING ORDER UNTIL UPSLOPE AREAS THEY CONTROL ARE STABILIZED.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS, POSSESS THE TECHNICAL SKILLS TO ASSESS SITE CONDITIONS THAT COULD IMPACT STORM WATER QUALITY, AND CAN ASSESS THE EFFECTIVENESS OF ANY BMP SELECTED.
- A QUALIFIED PERSON MUST INSPECT BMPS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL IN A 24-HOUR PERIOD TO DETERMINE IF THE SWP3 WAS PROPERLY IMPLEMENTED.
- THE QUALIFIED PERSON MUST PREPARE A WRITTEN REPORT AFTER EACH INSPECTION SUMMARIZING INSPECTION RESULTS
 - INCLUDING THE FOLLOWING: DATE OF INSPECTION
- NAME AND QUALIFICATION OF THE INSPECTOR WEATHER CONDITIONS
- LOCATIONS WHERE IN-STREAM OR OFF-SITE
- SEDIMENTATION OR OTHER POLLUTANTS WERE OBSERVED
- LOCATIONS OF BMPS NEEDING MAINTENANCE.
- LOCATIONS OF BMPS FAILING TO OPERATE CORRECTLY OR PROVIDE ADEQUATE PROTECTION.
- LOCATION OF AREAS IN NEED OF ADDITIONAL BMPS NOT IN PLACE AT THE TIME OF INSPECTION.
- CORRECTIVE ACTIONS REQUIRED, CHANGES TO THE SW3P AND IMPLEMENTATION DATES.
- GRADING AND STABILIZATION ACTIVITY LOG
- ALL INCIDENCES OF NON-COMPLIANCE MUST BE IDENTIFIED IN THE REPORT. IF A REPORT DOES NOT IDENTIFY INCIDENCES OF NON-COMPLIANCE, IT MUST CONTAIN A CERTIFICATION THE SITE IS IN COMPLIANCE AT THE TIME OF INSPECTION.

EROSION AND SEDIMENT CONTROL AMENDMENT LOG

- BMP MAINTENANCE OR REPAIR MUST BE COMPLETED WITHIN 3 DAYS, AND SEDIMENT POND MAINTENANCE OR REPAIR WITHIN 10 DAYS, OF THE INSPECTION THAT REVEALED A DEFICIENCY.
- WHEN AN INSPECTION REVEALS A BMP IS NOT EFFECTIVE AND A MORE APPROPRIATE BMP IS REQUIRED, THE SW3P SHALL BE AMENDED, THE NEW BMP INSTALLED WITHIN 10 DAYS OF THE INSPECTION THAT REVEALED THE DEFICIENCY, AND THE "STORMWATER POLLUTION PREVENTION PLAN AMENDMENT LOG" FORM COMPLETED.
- INSTALLED, BUT IS REQUIRED TO PROVIDE ADEQUATE CONTROL, IT MUST BE INSTALLED PRIOR TO THE NEXT STORM EVENT WHICH PRODUCES RUNOFF, BUT IN NO CASE LATER THAN 10 DAYS FROM THE INSPECTION THAT REVEALED THE DEFICIENCY. THE INSPECTION FREQUENCY MAY BE REDUCED TO 1 TIME PER

WHEN AN INSPECTION REVEALS A BMP HAS NOT BEEN

- MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER WEATHER (I.E. SUSTAINED SNOW COVER OR FROZEN GROUND CONDITIONS). A WAIVER OF INSPECTION REQUIREMENTS IS AVAILABLE UNTIL 1 MONTH BEFORE THAWING CONDITIONS ARE EXPECTED IF ALL THE FOLLOWING CONDITIONS ARE MET:
- FROZEN CONDITIONS ARE ANTICIPATED TO CONTINUE FOR EXTENDED PERIODS OF TIME (I.E. MORE THAN 1 MONTH).
- SOIL DISTURBANCE ACTIVITIES HAVE BEEN SUSPENDED.
- ARE DOCUMENTED IN THE SW3P. ONCE A DEFINABLE AREA HAS BEEN FULLY STABILIZED, IT MAY BE MARKED ON THE SW3P AND NO FURTHER INSPECTION

12. THE BEGINNING AND ENDING DATES OF THE WAIVER PERIOD

- REQUIREMENTS ARE REQUIRED FOR THAT AREA OF THE SITE. 14. INSPECTIONS SHALL BE PERFORMED UNTIL A NOT IS FILED
- WITH THE OHIO EPA. INSPECTION RECORDS ARE TO BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITY.

PERMIT CLOSURE REQUIREMENTS

- FINAL STABILIZATION REQUIRES THE CONTRACTOR TO REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROLS FROM THE SITE AND ALL SEDIMENT TRAPPED BY THOSE CONTROLS BE PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL COMPLETE A "FINAL CERTIFICATION AND NOTIFICATION FOR EROSION AND SEDIMENT CONTROL" UPON PROJECT COMPLETION AND PROVIDE A COPY TO THE OWNER AND SWCD.
- ONCE CONSTRUCTION ACTIVITIES HAVE CEASED AND THE SITE REACHES FINAL STABILIZATION, THE CONTRACTOR MUST TERMINATE THE NPDES PERMIT COVERAGE BY FILING A NOT WITH THE OHIO EPA WITHIN 45 DAYS OF FINAL STABILIZATION. FINAL STABILIZATION IS DEFINED AS AN ESTABLISHED VEGETATIVE GROUND COVER OF AT LEAST 70% GROWTH DENSITY, OR OTHER MEANS OF PERMANENT STABILIZATION, OVER ALL AREAS DISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR MUST MAINTAIN ALL REPORTS FOR 3 YEARS AFTER THE NOT IS FILED, AND PROVIDE DIGITAL COPIES TO THE OWNER AND SWCD.

architects planners

ALKIRE ROAD

PRIVATE STORM SEWER AND STORMWATER **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST 2779 ALKIRE ROAD**

CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY

PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE DIVISION USE ONLY

CITY OF COLUMBUS DEPARTMENT OF

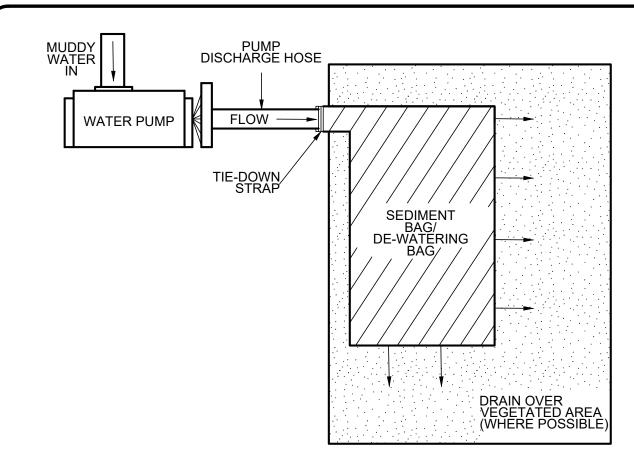
SWPPP NOTES

CONTRACTOR INSPECTOR SHEET: 13/14 SCALE: N/A AGREEMENT COMPLETED RPD CKD CLD CON. DF CONTRACT DRAWING NO. RECORD PLAN NO. RECORD CC-19884 **DETAIL**

COUNTY RECORDER DESCRIPTION APPROVAL/DATE GRANTOR Missing or invalid reference PAGE

your trusted advisor consultants

CHURCH OF CHRIST



DISCHARGE SET-UP FOR PUMPING MUDDY WATER

THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR 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 SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTERAM EROSION AND SEDIMENT CONTROLS.

DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL EB 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 AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL BELOW OF A TYPICAL SEDIMENT BAG INSTALLATION.

PERIMETER FILTER FABRIC FENCE

NOTES:

OPERATION

CONSTRUCTION:

MAINTENANCE:

HEIGHT OF THE FENCE

AS INTENDED

PLACE FABRIC AND SUPPORT STAKES

AND EXTEND FABRIC INTO THE TRENCH

STEP 2

FURNISH 30" WIDE FILTER FABRIC WITH SOUND WOOD SUPPORTS WITH MAXIMUM ON-CENTER SPACING OF 10'. USE FILTER FABRIC CONFORMING TO MATERIAL SPEC

TRENCH THE FILTER FABRIC FENCE AS DETAILED. THE

IF RUNOFF OVERTOPS THE FENCE, FLOWS UNDER THE FABRIC, AROUND THE FENCE ENDS, OR IN ANY OTHER

WAY ALLOWS CONCENTRATED FLOW TO DISCHARGE,

ONE OF THE FOLLOWING MUST BE PREFORMED:

1. THE LAYOUT OF THE FENCE SHALL BE CHANGED

SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED OR

FILTER FABRIC FENCE SHALL BE INSPECTED AFTER EACH

RAINFALL AND AT LEAST DAILY DURING PROLONG

REVIEWED DAILY TO ENSURE EFFECTIVENESS

REPAIRS SHALL BE MADE AS NEEDED

TO ENSURE BMP IS PERFORMING

RAINFALL, THE LOCATION OF THE FENCE SHALL BE

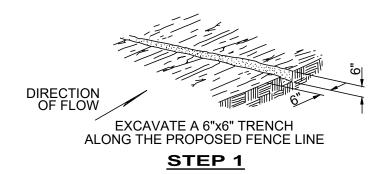
WHEN THE SEDIMENT REACHES ONE- HALF (1/2) OF THE

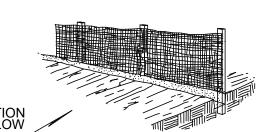
2. SEDIMENT SHALL BE REMOVED

3. ANOTHER BMP SHALL BE INSTALLED

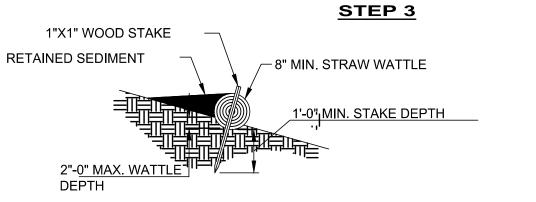
CONTRACTOR MAY ELECT TO TRENCH THE FENCE

DETAILED ON STEPS 1 THROUGH 3 IN ONE PLOWING





BACKFILL AND COMPACT THE EXCAVATED SOIL

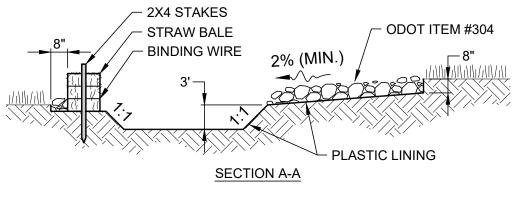


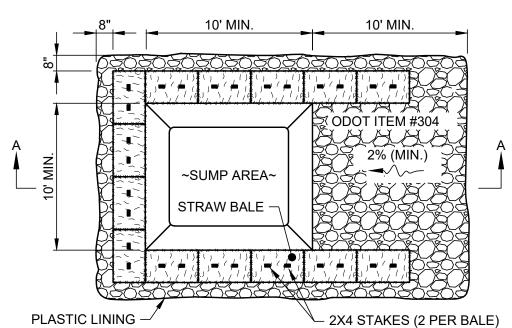
THE WATTLE SHALL BE A STRAW-FILLED TUBE OF FLEXIBLE NETTING MATERIAL EXHIBITING THE FOLLOWING PROPERTIES. IT SHALL BE A MACHINE-PRODUCED TUBE OF COMPACTED RICE STRAW THAT IS CERTIFIED WEED FREE FORAGE AND SHALL BE PRODUCED BY A MANUFACTURER WHOSE PRINCIPAL BUSINESS IS WATTLE MANUFACTURING. THE NETTING SHALL CONSIST OF SEAMLESS, HIGH DENSITY POLYETHYLENE AND ETHYL VINYL ACETATE AND CONTAIN ULTRA VIOLET INHIBITORS.

STRAW WATTLES MAY REQUIRE MAINTENANCE TO ENSURE THAT THE STAKES ARE HOLDING AND THE WATTLES ARE STILL IN CONTACT WITH THE SOIL.

STRAW WATTLE SHALL BE PLACED ALONG THE RIGHT OF WAY LINES EXCEPT FOR PAVEMENT CROSSINGS.

STRAW WATTLE:





NOTES:

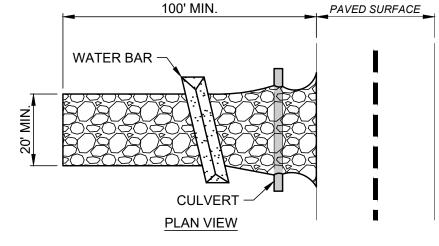
CONCRETE WASHOUT AREA SHALL BE LOCATED A MINIMUM OF 100' FROM STORM SEWER INLETS, STREAMS, WETLANDS OR ANY OTHER SURFACE WATERS.

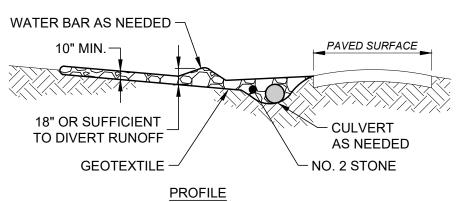
PLAN VIEW

- 2. IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO A CONSTRUCTION ENTRANCE
- 3. CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. LARGE SITES MAY REQUIRE MULTIPLE CONCRETE WASHOUT AREAS.
- PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF LARGE ROCKS AND DEBRIS.
- CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREA SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOW.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR PLASTIC LINING SHALL BE REPAIRED IMMEDIATELY. REPLACE THE ENTIRE CONCRETE WASHOUT AREA WHEN IT IS 75% FULL.

CONCRETE WASHOUT DETAIL

SCALE: NONE





NOTES:

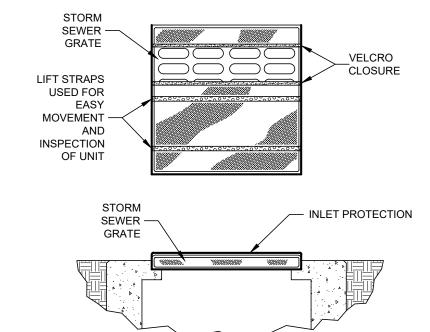
GEOTEXTILE SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS MEETING THE FOLLOWING:

TENSILE STRENGTH	200 LB					
PUNCTURE STRENGTH	80 PSI					
TEAR STRENGTH	50 LB					
BURST STRENGTH	320 PSI					
ELONGATION	20%					
EQUIVALENT OPENING SIZE	< 0.6 MM					
PERMITTIVITY	0.001 CM/SEC.					

- 2. INSTALL WATER BAR, AS NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING OUT ONTO PAVEMENT.
- APPLY ADDITIONAL STONE AS CONDITIONS DEMAND, REPLENISH STONE WHEN THE DEPTH IS LESS THAN 6", AND REPLACE IF STONES BECOMES MUD-LADEN.
- IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- 6. CONSTRUCTION ENTRANCE SHALL REMAIN UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY.

CONSTRUCTION ENTRANCE DETAIL

SCALE: NONE



INLET PROTECTION

MATERIALS:

FURNISH INLET PROTECTION CONFORMING TO THE SPECIFICATIONS LISTED ABOVE.

2) PLACE THE EMPTY DANDY BAG UNIT OVER THE GRATE AS THE GRATE

ITEM 207 - INLET PROTECTION - EA

STORM SEWER GRATE VELCRO CLOSURE LIFT STRAPS USED FOR EASY MOVEMENT AND INSPECTION OF UNIT	STRUCTUR PROTECTION PR. #1 PR. #6 PR. #7 PR. #8
STORM SEWER GRATE	PR. #9 PR. #10 EX. NO. 1 EX. NO. 2 EX. NO. 3 EX. NO. 4 EX. NO. 5 EX. NO. 6
	EX. NO. 7

INSTALLATION:

1) REMOVE GRATE FROM CATCH BASIN

3) HOLDING THE LIFTING STRAPS INSERT THE GRATE INTO ITS FRAME

PAYMENT:

	EA	EASEMENT REFERENCE		REVISIONS		
CITY NO.	COUNTY RECORDER		GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE
CITTINO.	VOL.	PAGE	GRANTOR			



ALKIRE ROAD CHURCH OF CHRIST

SWPPP DETAILS

PRIVATE STORM SEWER AND STORMWATER **FACILITIES FOR ALKIRE ROAD CHURCH OF CHRIST** 2779 ALKIRE ROAD

PROJECT TITLE:

CITY OF COLUMBUS, OHIO - FRANKLIN COUNTY

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

OWNER						
CONTRACTOR						
INSPECTOR				SCALE:	N/A	SHEET: 14/14
AGREI	EMENT	COM	IPLETED	GCALL.	IV/A	
RPD	CKD	CLD	CON. DR.	CONTRACT DRAWING NO.		RECORD PLAN NO.
	DEX TAIL	RECORD		CC-1	9884	