BRIDGEWATER LANDINGS

FAIRFIELD TOWNSHIP

BUTLER COUNTY COUNTY, OHIO



VICINITY MAP

LATITUDE: 39° 23′ 31″ LONGITUDE: 84° 30′ 53″



INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES AND MAINTENANCE OF TRAFFIC	3-4
GENERAL NOTES AND DETAILS	5-7
DEMOLITION PLAN	8
GILMORE ROAD UTILITY PLAN	9
GILMORE ROAD PROFILE	10
STORM AND SANITARY SEWER OUTLET PROFILES	11
GRADING PLAN	12
INTERSECTION DETAILS	13
LANDSCAPE PLAN	(NOT INCLUDED)
STORM WATER POLLUTION PREVENTION PLAN	(NOT INCLUDED)

2019 SPECIFICATIONS

THE CONSTRUCTION STANDARDS AND DRAWINGS OF BUTLER COUNTY AND THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND GENERAL NOTES LISTED IN THE PLAN, SHALL GOVERN THIS IMPROVEMENT. THE MOST RESTRICTIVE SHALL APPLY.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE CONSTRUCTION OF APPROXIMATELY 670′ OF ROADWAY FROM PRINCETON ROAD TO THE PARKING LOT OF BRIDGEWATER CHURCH IN FAIRFIELD TOWNSHIP, BUTLER COUNTY, OHIO. STORM SEWER, SANITARY SEWER, SIDEWALK, AND GRADING WORK WILL ALSO BE PERFORMED.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA = 0.4 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA = 0.1 ACRES

NOTICE OF INTENT (NOI) EARTH DISTURBED AREA = 0.5 ACRES

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764

(Non-members must be called directly)

BUTLER COUNTY STANDARD CONSTRUCTION DRAWINGS		ODOT STANDARD CONSTRUCTION DRAWINGS	
C-16	01-94	BP-7.1	1-21-22
		CB-3	7-16-21
		CB-3A	7-16-21
		DM-1.2	7-16-21
		MH-3	7-16-21
		ODOT SUPPLEMENTAL SPECIFICATIONS	
		800	5-2-22
		832	10-19-18

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JULY 11, 2022

MICHAEL L. SEEGER, P.E. DATE
P.E.–#81748

STATE OF OHIO
MICHAEL LEWIS SEEGER
81748
REGISTERED PROFESSIONAL ENGINEER

ChoiceOne Engineering

BRIDGEWATER LANDINGS

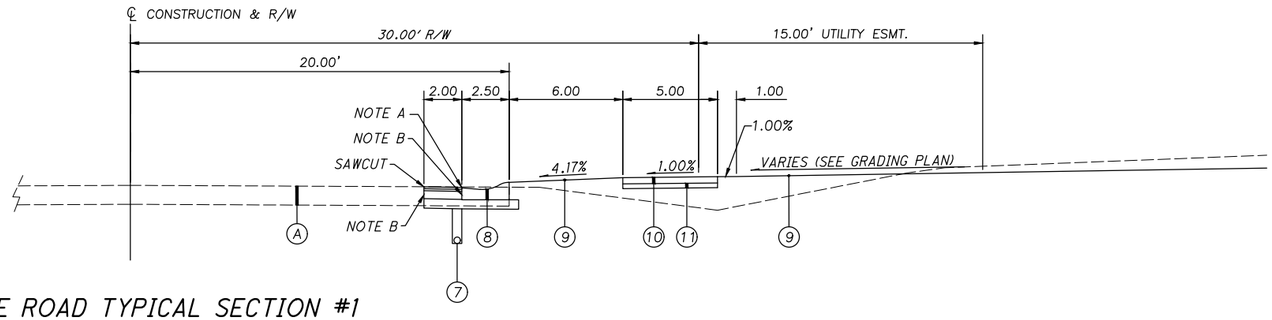
REVISIONS:

FILE NAME GTA
DRAWN BY WJW
CHECKED BY MLS
PROJECT No. BUT-FAT-2201
SHEET NUMBER 01 OF 13

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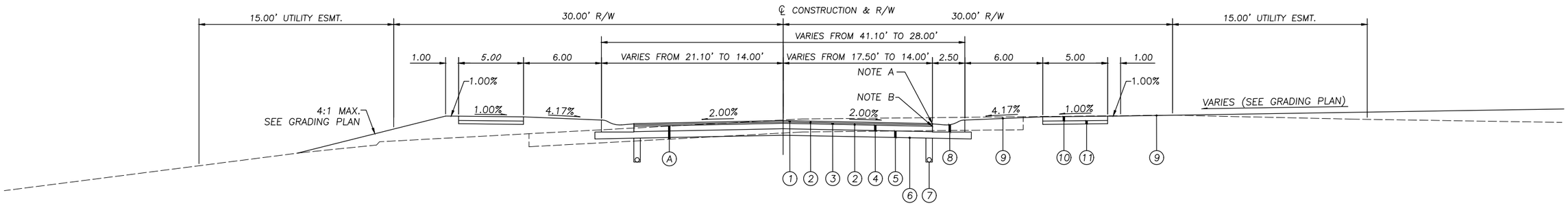
NOTE A: ITEM 441 ASPHALT SURFACE COURSE IS TO BE 1/4" ABOVE GUTTER PLATE.

NOTE B: TACK COAT FACE OF GUTTER AND AT ALL SAW CUT JOINTS PRIOR TO PLACEMENT OF ITEM 441 ASPHALT.



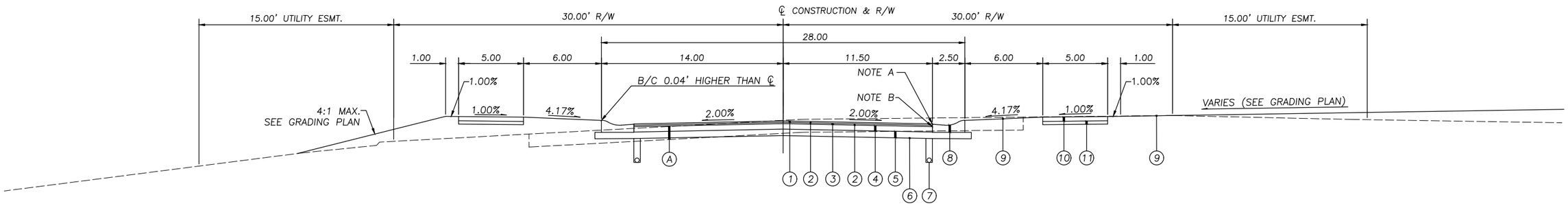
GILMORE ROAD TYPICAL SECTION #1

STA. 10+46.36 TO STA. 11+37.49



GILMORE ROAD TYPICAL SECTION #2

STA. 11+37.49 TO STA. 14+48.16



GILMORE ROAD TYPICAL SECTION #3

STA. 14+48.16 TO STA. 17+56.14

LEGEND

(1)	ITEM 441, 1-1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (449), PG64-22	(7)	ITEM 605, 4" BASE PIPE UNDERDRAIN
(2)	ITEM 407, NON-TRACKING TACK COAT, (APPLIED AT 0.06 GAL/S.Y.)	(8)	ITEM 609, BUTLER COUNTY ROLL CURB AND GUTTER, AS PER PLAN
(3)	ITEM 441, 1-3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (449)	(9)	ITEM 659, SEEDING AND MULCHING, CLASS 1, AS PER PLAN
(4)	ITEM 301, 5" ASPHALT CONCRETE BASE, PG64-22	(10)	ITEM 608, 4" CONCRETE WALK, AS PER PLAN
(5)	ITEM 304, 6" AGGREGATE BASE, AS PER PLAN	(11)	ITEM 411, 3" STABILIZED CRUSHED AGGREGATE
(6)	ITEM 204, SUBGRADE COMPACTION, AS PER PLAN	(A)	EXISTING PAVEMENT AND BASE (DEPTH UNKNOWN) STA. 10+46.64 TO STA. 11+92.38

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BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
TYPICAL SECTIONS

REVISIONS:

FILE NAME: GYA
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ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 12B).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH THE BUTLER COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS OR OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY THE COUNTY.

MODIFICATIONS

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

FUNDING

DUE TO FUNDING, THE OWNER RESERVES THE RIGHT TO INCREASE, DECREASE, OR OMIT ANY ITEMS LISTED IN THE BID SCHEDULE.

NO FINAL UNIT PRICE ADJUSTMENTS PER ODOT 104.02 WILL BE MADE AT CONTRACT FINALIZATION.

RECORD DRAWINGS

THE CONTRACTOR SHALL PROVIDE 2 COMPLETE SETS OF RECORD DRAWINGS TO THE COUNTY WITHIN 30 DAYS OF PROJECT COMPLETION. THESE DRAWINGS SHALL SHOW ALL CHANGES TO THE ORIGINAL DRAWINGS, ALL MANHOLE AND CATCH BASIN LOCATIONS AND INVERTS, ALL LATERAL LOCATIONS AND DEPTHS, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION, AND ALL OTHER PERTINENT DATA TO THE IMPROVEMENTS. PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

MISCELLANEOUS

COMPENSATION FOR THE WORK AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICES INCLUDED ON THE BID PROPOSAL. NO SEPARATE PAYMENT WILL BE MADE FOR TASKS (NOT ALL INCLUSIVE) INCLUDING ITEMS SUCH AS MOBILIZATION, RECORD DRAWINGS AND CONNECTIONS TO EXISTING FACILITIES.

CONTRACTOR IS RESPONSIBLE TO FILL OUT ALL NECESSARY CO-PERMITTEE PERMITS FOR THE OEPA STORMWATER NOI.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. FURTHER, CHOICE ONE ENGINEERING CORPORATION DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH CHOICE ONE ENGINEERING CORPORATION DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

SAFETY

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

MUD

THE TRACKING OR SPILLING OF MUD, DIRT, OR DEBRIS UPON COUNTY STREETS IS PROHIBITED, AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

UTILITY OWNERSHIP

STREETS AND STORM SEWER
BUTLER COUNTY ENGINEER'S OFFICE
1921 FAIRGROVE AVENUE
HAMILTON, OHIO 45011
(513) 785-4121
ATTN: ERIC POTTENGER

WATER AND SANITARY
BUTLER COUNTY WATER & SEWER
130 HIGH STREET
HAMILTON, OHIO 45011
(513) 887-3220
ATTN: JEFFREY FRECHTLING

TELEPHONE
ALTAFIBER
221 E. 4TH STREET BUILDING 121-900
CINCINNATI, OHIO 45202
(513) 397-9071
ATTN: RICH RAYLE

GAS
DUKE ENERGY - GAS
189 EAST FOURTH STREET
ROOM 460A
CINCINNATI, OHIO 45202
(513) 287-2517
ATTN: MARK BRANSCUM

STREETS AND STORM SEWER
CITY OF HAMILTON
345 HIGH STREET, SUITE 450
HAMILTON, OHIO 45011
(513) 785-7273
ATTN: RICHARD ENGLE

TELEPHONE
CHARTER COMMUNICATIONS
11252 CORNELL PARK DRIVE
CINCINNATI, OHIO 45242
(513) 386-5499
ATTN: KENT RIEGER

ELECTRIC
DUKE ENERGY - ELECTRIC
2010 DANA AVENUE
ROOM EF 324
CINCINNATI, OHIO 45207
(513) 458-3847
ATTN: CRAIG HUTCHISON

CABLE
VERIZON
8800 GOVERNORS HILL DRIVE
CINCINNATI, OHIO 45249
(513) 543-6130
ATTN: JACK STOKES

OHIO UTILITIES PROTECTION SERVICE
2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764

UTILITY INTERFERENCE

IF, DURING CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE COMPANIES HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. THERE WILL BE NO DELAYS ALLOWED FOR UTILITY INTERFERENCES.

LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL UTILITIES, AND STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE METHOD OF SUPPORT OR PROTECTION MUST BE APPROVED BY THE APPROPRIATE UTILITY COMPANY, AND IF FACILITY IS DAMAGED BY THE CONTRACTOR, ALL REPAIRS SHALL BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR IS HEREBY ADVISED THAT ALL UTILITY COMPANIES AFFECTED BY THIS PROJECT MAY BE WORKING CONCURRENTLY WITHIN THE PROJECT LIMITS. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE UTILITY COMPANIES.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWER THAT MAY BE AFFECTED BY THE WORK AND ARE TO REMAIN IN SERVICE. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

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

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

EXISTING DRAINAGE FACILITIES

ANY DRAINAGE CONDUIT CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE CONDUIT DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL CONDUIT REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY THE COUNTY BEFORE IT IS COVERED.

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. THE COST SHALL BE INCLUDED IN THE BID PRICE FOR THE NEW CONDUIT.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY THE COUNTY. THE COUNTY WILL ASSIST IN ANY NECESSARY INVESTIGATION OR DYE TESTING PRIOR TO APPROVING THE PLUGGING OF A FIELD OR STORM CONDUIT. COST OF THE ITEMS ABOVE SHALL BE INCLUDED IN THE COST OF ITEM 611 CONDUIT, TYPE B, 707.45, STORM REPAIR.

THE LOCATION, TYPE, SIZE, AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE COUNTY OR COUNTY'S REPRESENTATIVE DURING CONSTRUCTION, AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS AND INCLUDE ALL MATERIALS NECESSARY SUCH AS GRANULAR BEDDING, PROPER FITTINGS AND CONNECTIONS, AND PIPE.

THE FOLLOWING CONTINGENT ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR THE WORK NOTED ABOVE:

ITEM 611	4" CONDUIT, TYPE B, 707.45, STORM REPAIR	50 FEET
ITEM 611	6" CONDUIT, TYPE B, 707.45, STORM REPAIR	50 FEET
ITEM 611	8" CONDUIT, TYPE B, 707.45, STORM REPAIR	50 FEET

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION, OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE COUNTY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

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

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

WATER MAIN SEPARATION

WHENEVER A SANITARY SEWER AND A WATER MAIN MUST CROSS, THE SEWER SHALL BE LAID BELOW THE WATER MAIN AT SUCH AN ELEVATION THAT THE CROWN OF THE SEWER IS AT LEAST 18" BELOW THE BOTTOM OF THE WATER MAIN PIPE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SEWER SHALL BE EITHER CONSTRUCTED OF EITHER SLIP-ON OR MECHANICAL JOINT WATER MAIN MATERIAL AND BE PRESSURE TESTED TO 150 PSI TO ENSURE WATER-TIGHTNESS OR BE ENCASED IN A ¼" THICK CONTINUOUS STEEL, DUCTILE IRON OR PRESSURE RATED, DR 18 OR LESS PVC PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING. THE SEWER SHALL BE THE LONGEST STANDARD LENGTH AVAILABLE AND BE CENTERED AT THE POINT OF CROSSING SO THE JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.

WHENEVER A STORM SEWER AND A WATER MAIN MUST CROSS, THE PIPES SHALL BE LAID AT SUCH ELEVATIONS THAT THE CROWN OF ONE PIPE IS AT LEAST 18" BELOW THE BOTTOM OF THE OTHER.

WATER MAIN MUST BE INSTALLED WITH A MINIMUM OF 10' HORIZONTAL SEPARATION FROM ALL STORM AND SANITARY SEWERS, MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

CLEAN WATER CONNECTIONS

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

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE A PROJECT SUPERVISOR ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF RELATED PAY ITEMS OF THIS PROJECT.

SANITARY SEWER/LATERAL NOTE

ALL SANITARY SEWER LINES AND SANITARY LATERALS MUST BE INSTALLED WITH 40 INCHES MINIMUM OF COVER OR BELOW FROST DEPTH WHICHEVER IS GREATER.

PROPERTY POINTS AND SURVEY MONUMENTS

CARE SHALL BE TAKEN BY THE CONTRACTOR TO SAFEGUARD ANY PROPERTY POINTS OR OTHER SURVEY REFERENCE MARKS ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESET ANY PROPERTY POINT OR SURVEY MONUMENT WHICH IS DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT. THE PROPERTY POINTS AND SURVEY MONUMENTS SHALL BE RESET UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR.

PAYMENT FOR THIS ITEM SHALL BE INCIDENTAL TO THE OTHER ITEMS PAID FOR IN THIS PROJECT.

DEWATERING, COFFERDAMS, AND BY-PASS PUMPING

ANY DEWATERING, COFFERDAMS, OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS. NO ADDITIONAL PAYMENT WILL BE ALLOWED.

NONRUBBER TIRE VEHICLES

NO NONRUBBER TIRE VEHICLES SHALL BE MOVED ON PUBLIC STREETS. EXCEPTIONS MAY BE GRANTED BY THE COUNTY WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE COUNTY. THE CONTRACTOR SHALL USE EXTREME CARE WHEN OPERATING NONRUBBER TIRE VEHICLES ON STREETS OR DRIVEWAYS TO AVOID MARKING OR DAMAGING THE PAVEMENT. PROTECTION OF THE PAVEMENT FROM DAMAGE RESULTING FROM THE TRACKS OF NONRUBBER TIRE VEHICLES UTILIZED IN TRENCH EXCAVATION SHALL BE REQUIRED. A WOOD PLANK SYSTEM, USED TIRES, RUBBER MATS, OR OTHER MEANS AS APPROVED BY THE COUNTY'S REPRESENTATIVE SHALL BE USED TO PROTECT THE PAVEMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

CONSTRUCTION NOISE

IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS SPECIFIED IN THE COUNTY NOISE ORDINANCE. IF THERE IS NO NOISE ORDINANCE IN PLACE, POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 PM TO 7:00AM.

HAUL ROADS

WHEN PICKING A DUMP SITE, CONTRACTOR IS TO TAKE INTO CONSIDERATION THE HAUL ROAD ROUTE AND ANY NECESSARY ROADWAY REPAIR CAUSED BY HAULING TO THE DUMP SITE.

PRIOR TO HAULING EQUIPMENT OR MATERIALS, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE COUNTY OF THE SPECIFIC ROADS OR STREETS ON THE HAUL ROUTE. IF THE HAUL ROUTE INCLUDES ROADS AND STREETS THAT ARE NOT UNDER THE JURISDICTION AND CONTROL OF THE COUNTY OR OF THE STATE, THE CONTRACTOR MUST USE LOCAL ROADS AND STREETS THAT ARE NOT RESTRICTED BY LOCAL AUTHORITIES. IF IT IS DETERMINED BY THE COUNTY THAT THE HAUL ROADS USED TO HAUL EQUIPMENT AND MATERIALS TO THE DUMP SITE WERE DAMAGED FROM THIS OPERATION, THE COUNTY WILL ORDER THE CONTRACTOR TO PERFORM IMMEDIATE AND PRACTICAL REPAIRS TO ENSURE REASONABLY NORMAL TRAVELING CONDITIONS AND BRING PAVEMENT CONDITIONS BACK TO CONDITIONS EQUAL OR BETTER THAN PRE-OPERATION CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE ALL THIS INTO CONSIDERATION WHEN PICKING A DUMP SITE.

THE CONTRACTOR SHALL NOT FILE A CLAIM FOR DELAYS OR OTHER IMPACTS TO THE WORK CAUSED BY DISPUTE WITH THE LOCAL AUTHORITIES REGARDING THE USE OF LOCAL ROADS OR STREETS AS HAUL ROADS. THE CONTRACTOR SHALL SAVE THE COUNTY AND THE STATE HARMLESS FOR ANY CLOSURES OR HAULING RESTRICTION OUTSIDE THE PROJECT LIMITS BEYOND THE CONTROL OF THE COUNTY OR ODOT.

ChoiceOne Engineering
SIDNEY, OHIO 937.497.0200
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BRIDGEWATER LANDINGS
FAIRFIELD TWP.
GENERAL NOTES

REVISIONS:

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GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER PAY ITEM UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE COUNTY DUE TO GRAFFITI OR VANDALISM DAMAGE.

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT, EXCLUDING THE BINDER PRICE ADJUSTMENT PER ODOT 401.20. ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

TESTING AND CERTIFICATION

PROVIDE TESTING OF AND CERTIFICATION THAT MATERIAL SUPPLIED FOR THIS PROJECT MEETS THE PROJECT SPECIFICATIONS, IF REQUIRED.

POTENTIAL ITEMS FOR TESTING CONSIST OF TRENCH BACKFILL, EMBANKMENT, AND CONCRETE, WHICH MAY BE PERFORMED BY THE COUNTY IF THEY SUSPECT DEFECTIVE WORK OR MATERIALS.

PAYMENT FOR CERTIFICATION OF WORK SHALL BE INCIDENTAL TO THE VARIOUS ITEMS IT IS RELATED TO AND SHALL INCLUDE ALL COST RELATED TO PROVIDING THE CERTIFICATION. COST OF ANY TESTING BY A TESTING LAB CONTRACTED BY THE COUNTY SHALL BE BORNE BY THE COUNTY, UNLESS THE TEST DOES NOT MEET PROJECT SPECIFICATIONS OR WORK IS FOUND TO BE DEFECTIVE, AT WHICH POINT, THE CONTRACTOR SHALL PAY THE EXPENSES FOR TESTING.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

ITEM 203 EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 203 ROADWAY EXCAVATION AND EMBANKMENT, EXCEPT AS HEREIN MODIFIED.

THE WORK OF EMBANKMENT CONSTRUCTION WILL NOT BE PAID FOR AS SUCH, BUT WILL BE CONSIDERED INCIDENTAL TO THIS ITEM AND THE MEASURED QUANTITY WILL BE THAT OF EXCAVATION ONLY.

CONTRACTOR SHALL EXCAVATE ALL MATERIAL FROM EXISTING SURFACE TO THE BOTTOM OF THE PROPOSED SUBGRADE. ASPHALT REMOVAL IS INCLUDED IN THIS ITEM UNLESS OTHERWISE SPECIFIED.

ALL SURFACE MATERIAL, EXCAVATED UNSUITABLE MATERIAL AND ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY AND EXPENSE OUTSIDE OF THE RIGHT-OF-WAY AT A SITE APPROVED BY THE COUNTY. THIS ITEM SHALL ALSO INCLUDE THE PLACING OF A MINIMUM OF 6" OF TOPSOIL ON ALL DISTURBED AREAS DURING FINAL GRADING.

PAYMENT FOR ITEM 203 EXCAVATION, INCLUDING EMBANKMENT CONSTRUCTION, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE THE EXCAVATION OF UNSUITABLE SUBGRADE AND REPLACEMENT WITH 6" OF ODOT #2'S FOLLOWED BY ODOT ITEM 304 AGGREGATE BASE AS DIRECTED BY THE COUNTY. LOCATION AND AMOUNT OF THIS ITEM SHALL BE LOCATED BY THE COUNTY AT THE TIME OF CONSTRUCTION ONLY AFTER THE CONTRACTOR HAS SATISFACTORILY ATTEMPTED TO DRY OUT AND WORK THE SUBGRADE. THIS ITEM INCLUDES THE EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL, SUBGRADE COMPACTION, AND THE SUPPLY AND PLACEMENT OF THE ABOVE-MENTIONED STRUCTURAL MATERIAL. THE CONTINGENT ESTIMATED QUANTITY IS XXXX CUBIC YARDS, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY OR EXCEEDS THE ESTIMATED QUANTITY, IF NECESSARY.

PAYMENT FOR ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE (REGARDLESS OF QUANTITY) AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION 204 GEOGRID FOR SUBGRADE STABILIZATION, EXCEPT AS HEREIN MODIFIED.

SELECTIONS OF AREAS THAT NEED GEOGRID, IN ADDITION TO ITEM 204, EXCAVATION OF SUBGRADE, AS PER PLAN, SHOULD BE DETERMINED BY COUNTY BY PROOF ROLLING THE EXPOSED SITE.

THE ESTIMATED QUANTITY IS XXXX SQUARE YARDS, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY OR EXCEEDS THE ESTIMATED QUANTITY, IF NECESSARY. THE METHOD OF MEASUREMENT SHALL BE THE SURFACE AREA COVERED BY THE STABILIZATION MEMBRANE, NOT INCLUDING OVERLAP OR WASTE.

THE WORK SHALL INCLUDE SUBGRADE STABILIZATION BY UTILIZING THE TENSAR TX5 GEOGRID, NAUE SECURGRID 60/20, COLBOND ENKAGRID PRO 40, OR AN APPROVED EQUIVALENT. LOCATION AND AMOUNT SHALL BE LOCATED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. THE GEOGRID OR APPROVED EQUIVALENT SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. THIS WORK SHALL ALSO INCLUDE THE ADDITIONAL LABOR AND EQUIPMENT TO PROPERLY PLACE THE 304 AGGREGATE BASE OVER GEOGRID AS RECOMMENDED BY MANUFACTURER.

PAYMENT FOR ITEM 204 GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE (REGARDLESS OF QUANTITY) AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 SUBGRADE COMPACTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE "PROOF ROLLING" WITH A LOADED TANDEM TRUCK AS DIRECTED BY THE COUNTY UNTIL NO DEFLECTION OR TIRE INDENTATION IN SUBGRADE IS PRESENT.

PAYMENT FOR ITEM 204 SUBGRADE COMPACTION, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE, EXCEPT AS HEREIN MODIFIED.

THE CONTRACTOR SHALL PROVIDE WATER OR DRY OUT THE AGGREGATE BASE PER 304.05 BRINGING IT TO WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT BEFORE COMPACTING.

THE CONTRACTOR SHALL COMPACT THE AGGREGATE BASE USING APPROPRIATE ROLLERS PER 304.04 FOLLOWED BY PROOF ROLLING THE AGGREGATE BASE USING A LEGALLY LOADED TANDEM AXLE DUMP TRUCK AS DIRECTED BY THE COUNTY UNTIL NO DEFLECTION OR TIRE INDENTATIONS ARE VISIBLE. IN A TRENCH INSTALLATION, THE CONTRACTOR SHALL COMPACT AGGREGATE BASE, WITH PLATE COMPACTOR, SMALL SHEEP'S FOOT ROLLER OR OTHER APPROVED METHOD, IN LIFTS OF NO MORE THAN 4" OR AS SPECIFIED IN THE TRENCH DETAIL. THE CONTRACTOR IS TO SUPPLY STANDARD PROCTOR RESULTS FOR THE BACKFILL MATERIAL TO BE USED. COMPACTION TESTS MAY BE PERFORMED ON THE AGGREGATE AT THE DISCRETION OF THE COUNTY. TRENCH COMPACTION SHALL MEET OR EXCEED 95% STANDARD PROCTOR.

PAYMENT FOR ITEM 304 AGGREGATE BASE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 452 NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 452 NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, EXCEPT AS HEREIN MODIFIED.

REMOVAL AND DISPOSAL OF EXISTING DRIVE MATERIALS SHALL BE INCLUDED IN THIS ITEM.

CONCRETE SHALL BE ODOT CLASS QC-1P. CONTRACTOR TO PROVIDE THE CONCRETE WITH A BROOM FINISH AND TOOLED EDGES PER 451.10. CONTRACTOR TO PROVIDE 1/2" PREMOLDED EXPANSION JOINT TO ISOLATE THE APPROACHES FROM WALKS, CURB, AND EXISTING CONCRETE DRIVEWAY. DRIVE APPROACHES SHALL BE INSTALLED PER THE DETAIL IN THESE PLANS AND THE DRIVEWAY COMPOSITION SHALL BE PER THE HATCH LEGEND SHOWN IN THESE PLANS. ALL REINFORCEMENT, AS CALLED FOR IN THE DETAIL SHALL BE INSTALLED TO MEET THE COUNTY'S SATISFACTION.

PAYMENT FOR ITEM 452 NON-REINFORCED CONCRETE PAVEMENT, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 611 CONDUITS/STRUCTURES AND RELATED WORK

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, EXCEPT AS HEREIN MODIFIED.

THE INSTALLATION OF ALL STORM SEWER, SANITARY SEWER, AND ALL CORRESPONDING STRUCTURES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AS NOTED ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN A HIGH STANDARD OF WORK. AND ENSURE THAT ALL ITEMS ARE FULLY AND PROPERLY FUNCTIONAL TO A QUALITY ACCEPTABLE TO THE OWNER.

PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS:

CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (CPSLP)	707.33
POLYPROPYLENE CORRUGATED DOUBLE WALL PIPE (PCDWP)	707.65
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

ALL PIPE CULVERTS, CONDUITS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES SHALL MEET THE MATERIAL REQUIREMENTS OF THIS ITEM. THE FOLLOWING ITEMS WILL NOT BE REQUIRED UNLESS OTHERWISE NOTED: 1) INSTALLATION PLAN, 2) CONSTRUCTION INSPECTION FORMS, 3) PERFORMANCE INSPECTIONS AND REPORTS, 4) CONDUIT AND DRAINAGE STRUCTURE EVALUATIONS.

THE CONTRACTOR SHALL ENSURE THE CONDUIT BEDDING AND BACKFILL COMPACTION DENSITY MEETS ASTM D698 (98% STANDARD PROCTOR). TESTING MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

ITEM 611 SANITARY SEWER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS AND DRAINS, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL CONSIST OF EXCAVATION, STRUCTURAL BEDDING, INSTALLATION OF THE NEW SANITARY SEWER, STRUCTURAL BACKFILL, COMPACTION, AND ALL REQUIRED TESTING PER BUTLER COUNTY STANDARDS AND SPECIFICATIONS. THIS ITEM SHALL ALSO INCLUDE ANY DEWATERING NECESSARY FOR INSTALLATION OF SANITARY.

IN REPLACEMENT SITUATIONS THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. WHEN A NEW SANTIARY SEWER MAIN, CONNECTS TO AN EXISTING SEWER MAIN A FERNCO COUPLING SHALL BE INSTALLED. THE COST OF THE COUPLING AND ASSOCIATED WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED SANITARY SEWER MAIN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING SANITARY SEWER MAIN IN SERVICE DURING THE INSTALLATION OF THE NEW SANITARY SEWER. CONTRACTOR SHALL PUMP THE EXISTING SEWAGE STARTING FROM THE NEXT UPSTREAM MANHOLE TO THE NEXT DOWNSTREAM MANHOLE LOCATED OUTSIDE OF THE PROJECT LIMITS DURING CONSTRUCTION, OR AS DIRECTED BY THE COUNTY. CONTRACTOR IS TO HAVE ON SITE ONE SPARE PUMP AND NECESSARY PUMP LINE IN CASE OF EMERGENCY. CONTRACTOR IS ALSO TO CONNECT ALL EXISTING SERVICES TO MAIN. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY ON THE PROCEDURE THE CONTRACTOR WILL USE.

PAYMENT OF ITEM 611, SANITARY SEWER, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 614 MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

ITEM 638 WATER MAIN, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 WATER MAINS AND SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED.

ALL MATERIALS, PROCEDURES, AND TESTING USED SHALL CONFORM TO BUTLER COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS.

THE CONTRACTOR WILL PERFORM THE CHLORINATION PER AWWA STANDARDS. THE CONTRACTOR SHALL ADD A TEMPORARY 3/4" TYPE K COPPER SERVICE BRANCHES, UNLESS OTHERWISE SHOWN, WITH TAPPING SADDLES, COMPRESSION FITTINGS, AND CORPORATION STOPS NEAR ALL WATER MAIN CONNECTIONS FOR INSERTION OF CHLORINE. THE COUNTY WILL TEST THE CHLORINE SAMPLES AND PERFORM BACTERIAL TESTING.

PAVEMENT RESTORATION, CURB AND GUTTER AND PLAIN CONCRETE PAVEMENT, AND SIDEWALK REPLACEMENT SHALL BE PAID UNDER THEIR RESPECTIVE ITEM NUMBERS.

PAYMENT FOR ITEM 638 WATER MAIN, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE, MEASURED HORIZONTALLY, AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

Choice One Engineering
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com

BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GENERAL NOTES

REVISIONS:

FILE NAME	GNB
DRAWN BY	WJW
CHECKED BY	MLS
PROJECT No.	BUT-FAT-2201
DATE	7-11-2022
SHEET NUMBER	04 OF 13

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ITEM 638 6-INCH FIRE HYDRANT ASSEMBLY, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 WATER MAINS AND SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED.

THE ASSEMBLY WILL CONSIST OF THE FIRE HYDRANT, PIPE BRANCH, GATE VALVE WITH VALVE BOX, ANCHORING PIPE/COUPLING, ANCHORING TEE BRANCH, THRUST BLOCK, AND MECHANICAL JOINT FITTING WITH RESTRAINING GLAND.

PAYMENT FOR ITEM 638 6-INCH FIRE HYDRANT ASSEMBLY, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL AREAS DESIGNATED FOR SEEDING SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND-RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON PROJECT WORK LIMITS.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE COUNTY WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.

ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND COUNTY, AT THE CONTRACTOR'S SOLE EXPENSE.
THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

PAYMENT FOR ITEM 659 SEEDING AND MULCHING, CLASS 1, AS PER PLAN, FOR ALL ABOVE OPERATIONS, SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

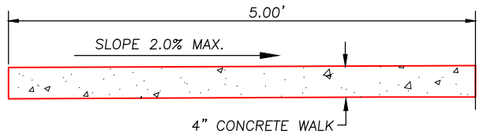
BUTLER COUNTY STANDARD SEWER NOTES

SANITARY SEWER MATERIALS AND INSTALLATION SHALL BE PER BUTLER COUNTY WATER AND SEWER SPECIFICATIONS, USING: SECTION 3110 FOR PVC SDR-35 &26 PIPE; SECTION 3140 FOR ABS OR PVC COMPOSITE PIPE; SECTION 3410 FOR MANHOLES.

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

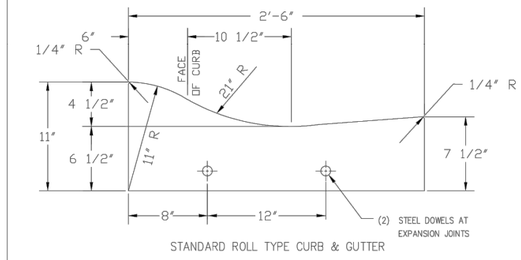
BUTLER COUNTY WATER & SEWER DEPARTMENT DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTER LINE OF ANY SANITARY SEWER MAIN OR WATER MAIN.

PRIVATE DRIVEWAYS, PARKING LOTS AND OTHER PAVED AREAS, EARTHEN BERMS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN THE EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER SHALL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR AND FOR PROVIDING ACCESS TO ANY CURB STOPS, METER PITS, MANHOLES, CLEAN-OUTS, AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES.

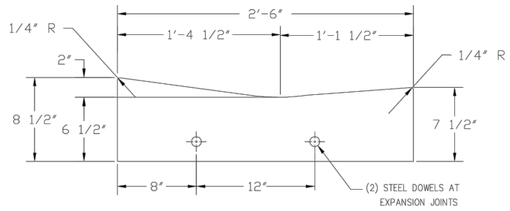


SIDEWALK DETAIL

NOTES
A. WALK TO BE POURED ON 4" MIN. COMPACTED STRUCTURAL BEDDING.
B. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES.
C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
D. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.
E. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
F. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY – NO POZZOLAN MATERIAL).
G. CONCRETE WITHIN R/W SHALL BE ODOT ITEM 499– CLASS "C" CONCRETE WITH SUPPLEMENT 1069.
G. PROPOSED CONCRETE SIDEWALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE. JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED SIDEWALK AREAS. JOINT SPACING SHALL TYPICALLY RANGE FROM 4'X4' TO 10'X10'. IN ALL CASES THE SIDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS. CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMING WORK.
H. SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.



STANDARD ROLL TYPE CURB & GUTTER
C-1



STANDARD DROP CURB AT DRIVEWAYS
ROLL TYPE C-1

NOTES

GENERAL: This drawing shows the standard type of curb that should be used on most types of pavement. Typical section of project shows the type to be used, also the thickness of the edge of the pavement or the edge of the curb and gutter section.

JOINTS: One inch expansion joints shall extend up to top of the curb and shall be constructed in the curb and gutter section in such a manner that the joint seal will extend the full width of the gutter and into the curb face a sufficient distance to seal the joint to an elevation of at least two (2) inches above the flow line of the gutter section at expansion joints. All joints shall be constructed perpendicular to the edge of the curb and to the surface of the pavement. Transverse expansion joint material shall meet the requirements of 705.03. expansion material and joint sealer is not required when curb is adjacent to flexible type pavement.

REVISIONS	DATE

C-16

CURB AND GUTTER
STANDARD C-1

CHK. BY: C.A.H. EFFECTIVE DATE: 1-1-94

BUTLER COUNTY ENGINEERS OFFICE
AND OPERATIONS FACILITY
1921 FAIRGROVE AVENUE – HAMILTON, OHIO
PHONE 867-5744 45011

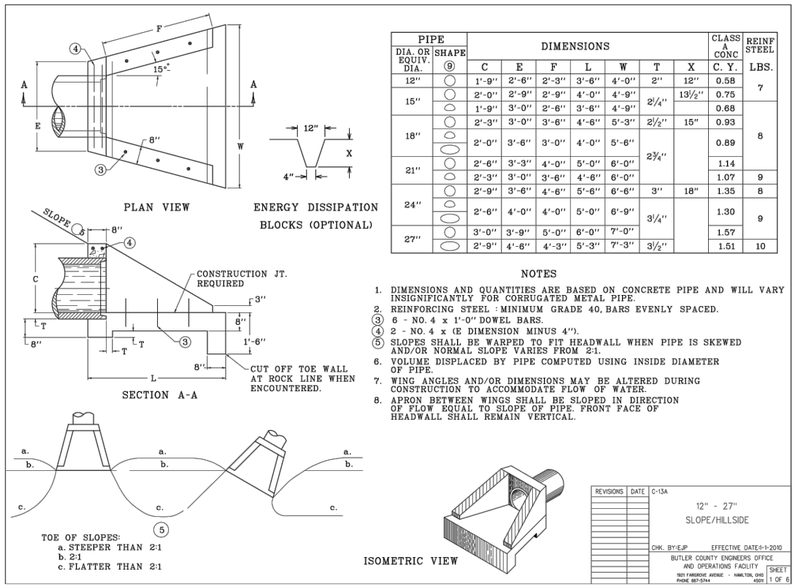
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SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
www.CHOICEONEENGINEERING.com

BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GENERAL NOTES AND DETAILS

REVISIONS:

FILE NAME: GNC
DRAWN BY: WJW
CHECKED BY: MLS
PROJECT No.: BUT-FAT-2201
DATE: 7-11-2022
SHEET NUMBER: 05 OF 13

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PIPE DIA. OR EQUIV. DIA.	SHAPE ⑨	DIMENSIONS C	E	F	L	W	T	X	CLASS A CONC C. Y.	REINF STEEL LBS.
12''	○	1'-9''	2'-6''	2'-3''	3'-6''	4'-0''	2''	12''	0.58	7
15''	○	2'-0''	2'-9''	2'-9''	4'-0''	4'-9''	2¼''	13½''	0.75	8
	⬭	1'-9''	3'-0''	2'-6''	3'-6''	4'-9''			0.68	
18''	○	2'-3''	3'-0''	3'-6''	4'-6''	5'-3''	2½''	15''	0.93	
	⬭	2'-0''	3'-6''	3'-0''	4'-0''	5'-6''	2¾''		0.89	
21''	○	2'-6''	3'-3''	4'-0''	5'-0''	6'-0''			1.14	9
	⬭	2'-3''	3'-0''	3'-6''	4'-6''	6'-0''			1.07	
24''	○	2'-9''	3'-6''	4'-6''	5'-6''	6'-6''	3''	18''	1.35	8
	⬭	2'-6''	4'-0''	4'-0''	5'-0''	6'-9''	3¼''		1.30	9
	⬭	3'-0''	3'-9''	5'-0''	6'-0''	7'-0''			1.57	
27''	⬭	2'-9''	4'-6''	4'-3''	5'-3''	7'-3''	3½''		1.51	10

NOTES

1. DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR CORRUGATED METAL PIPE.
2. REINFORCING STEEL : MINIMUM GRADE 40, BARS EVENLY SPACED.
3. 6 - NO. 4 x 1'-0'' DOWEL BARS.
4. 2 - NO. 4 x (E DIMENSION MINUS 4'').
5. SLOPES SHALL BE WARPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL SLOPE VARIES FROM 2:1.
6. VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
7. WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.

REVISIONS	DATE

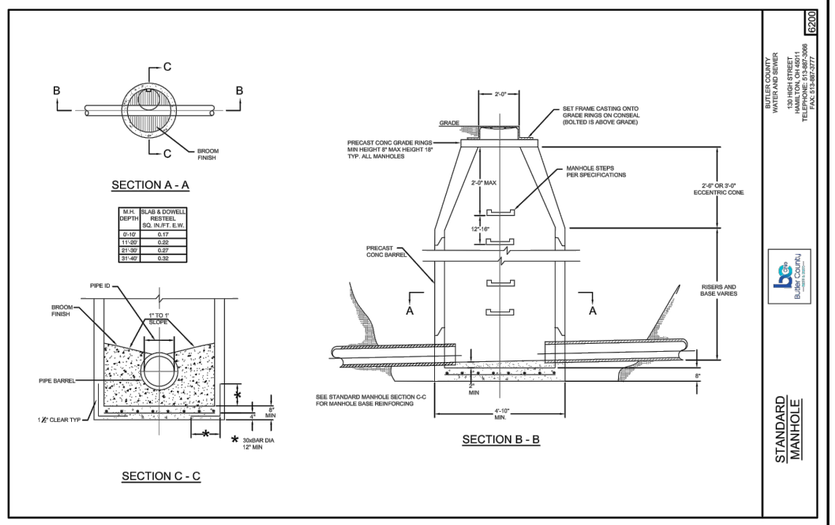
C-13A

12'' - 27''
SLOPE/HILLSIDE

CHK. BY:EJP EFFECTIVE DATE:1-1-2010

BUTLER COUNTY ENGINEERS OFFICE AND OPERATIONS FACILITY
1921 FAIRGROVE AVENUE - HAMILTON, OHIO 45011
PHONE 867-5744

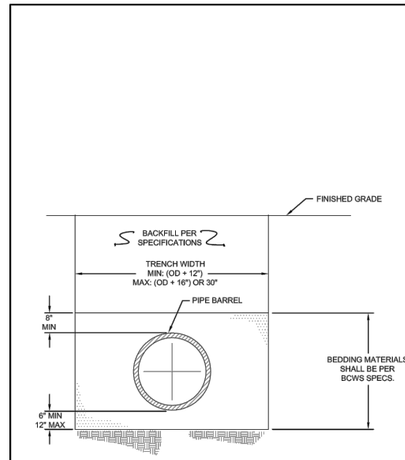
SHEET 1 OF 6



STANDARD MANHOLE

6200

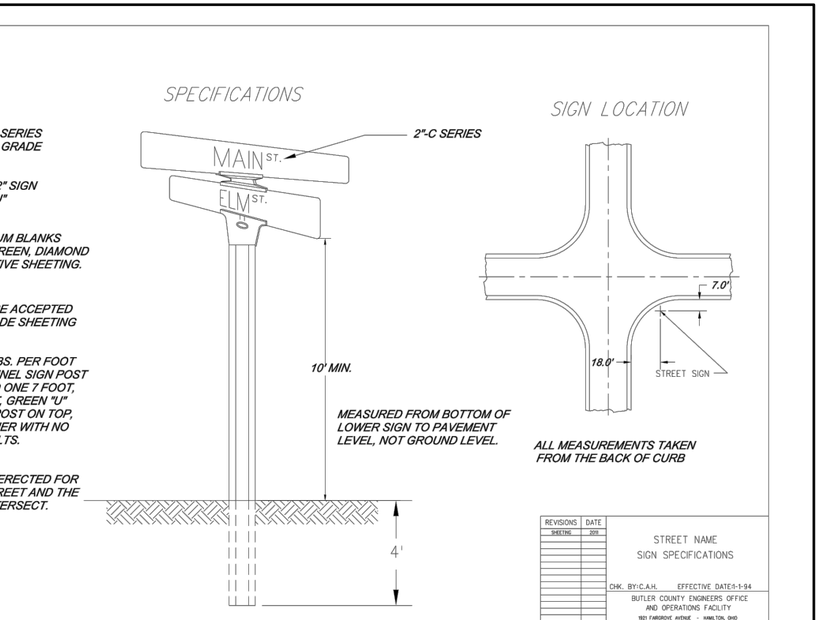
BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777



TYPICAL TRENCH DETAIL SEWER INSTALLATION

BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6270

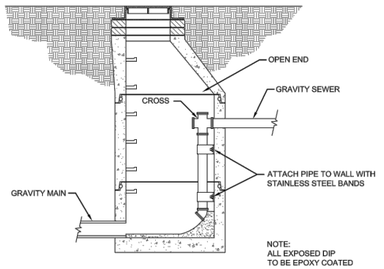


REVISIONS	DATE
SHEETING	2019

STREET NAME SIGN SPECIFICATIONS

CHK. BY:C.A.H. EFFECTIVE DATE:1-1-94

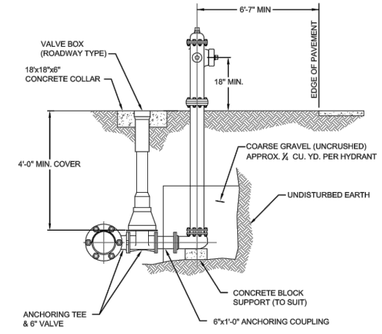
BUTLER COUNTY ENGINEERS OFFICE AND OPERATIONS FACILITY
1921 FAIRGROVE AVENUE - HAMILTON, OHIO 45011
PHONE 867-5744



INSIDE DROP MANHOLE DETAIL FOR GRAVITY SEWERS

BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

6165



NOTES:

1.) VERIFY LOCATION OF F.H. RELATIVE TO WATER MAIN ON PLANS.

2.) CHECK STREET DETAILS FOR RELATIONSHIP BETWEEN MAIN, STREET AND F.H.

TYPICAL FIRE HYDRANT INSTALLATION

BUTLER COUNTY WATER AND SEWER
130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5110

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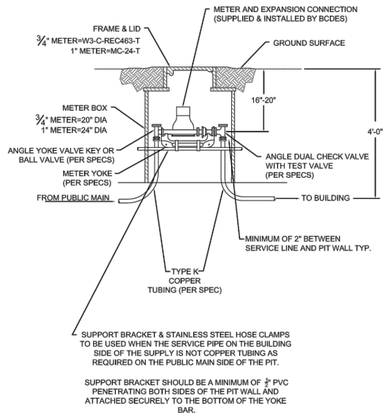
SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
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BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GENERAL DETAILS

REVISIONS:

FILE NAME	GMA
DRAWN BY	WJW
CHECKED BY	MLS
PROJECT No.	BUT-FAT-2201
DATE	7-11-2022
SHEET NUMBER	06 OF 13

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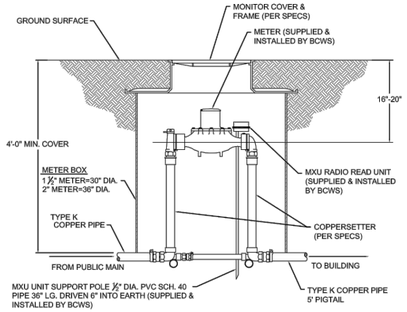


STANDARD INSTALLATION FOR
3/4" AND 1" WATER METER
SETTINGS

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5150



METER TYPE	LAYING LENGTH
1 ½" C2 OMNI	13"
1 ½" T2 OMNI	13"
2" C2 OMNI AS SUPPLIED BY BUTLER COUNTY SEE NOTE 3	17"
2" C2 OMNI FACTORY ORDERED	15 ½"
2" T2 OMNI	17"

NOTE:
1) FOR METERS 3" AND LARGER, REFER TO THE STD. INSTALLATION FOR 3" AND LARGER WATER METERS.

2) ALL DOMESTIC WATER METERS SHALL BE SENSUS OMNI C2 TYPES FOR SIZES OF 1 1/2" AND LARGER, NON-DOMESTIC , (IE; DEDUCT, IRRIGATION), MAY BE EITHER SENSUS OMNI T2 OR C2 TYPES FOR SIZES OF 1 1/2" AND LARGER.

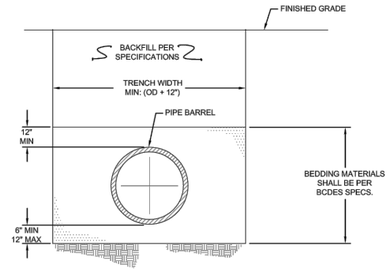
3) BUTLER COUNTY ORDERS 2" C2 OMNI METERS WITH A 17" LAYING LENGTH TO ACCOMODATE THE STANDARD COPPERSETTER. IF THE FACTORY ORDERED SIZE IS UTILIZED AN ADAPTER FLANGE PLATE WILL BE REQUIRED.

STANDARD INSTALLATION
FOR 1-1/2" & 2" WATER
METER SETTINGS

BUTLER COUNTY
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5170



TYPICAL TRENCH
DETAIL WATER
MAIN INSTALLATION

BUTLER COUNTY \
WATER AND SEWER

130 HIGH STREET
HAMILTON, OH 45011
TELEPHONE: 513-887-3066
FAX: 513-887-3777

5280

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BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GENERAL DETAILS

REVISIONS:

FILE NAME
GMB

DRAWN BY
WJW

CHECKED BY
MLS

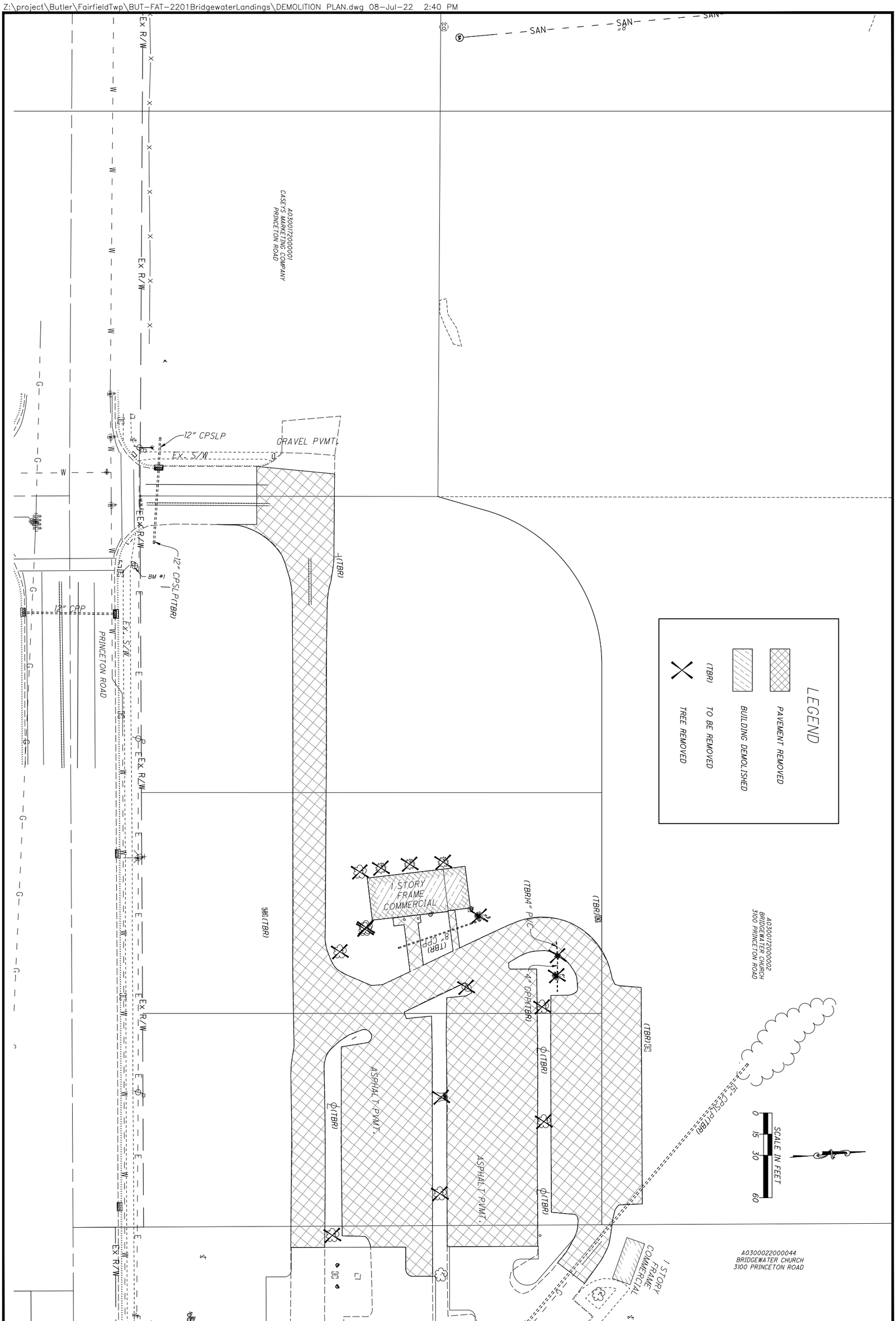
PROJECT No.
BUT-FAT-2201

DATE
7-11-2022

SHEET NUMBER
07 OF 13

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SHEET NUMBER	08 OF 13
DATE	7-11-2022
PROJECT No.	BUT-FAT-2201
CHECKED BY	MLS
DRAWN BY	WJW
FILE NAME	DEMO
REVISIONS:	

BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
DEMOLITION PLAN

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HATCH LEGEND

CONCRETE SIDEWALK
ITEM 608 - 4" CONCRETE SIDEWALK ON
ITEM 411 - 4" STABILIZED AGGREGATE BASE

CURB RAMP
ITEM 608 - CURB RAMP
ITEM 411 - 4" STABILIZED AGGREGATE BASE

SAWCUT/PAVEMENT REPAIR AREA
ITEM 441 - 1-1/2" ASPHALT CONCRETE,
SURFACE COURSE, TYPE 1, (448) PG 64-22 ON
ITEM 441 - 2-1/2" ASPHALT CONCRETE,
INTERMEDIATE COURSE, TYPE 2, (448) ON
ITEM 304 - 6" AGGREGATE BASE (2 EQUAL LIFTS) ON
ITEM 204 - SUBGRADE COMPACTION

CONCRETE DRIVEWAY
ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT ON
ITEM 304 - 6" AGGREGATE BASE ON
ITEM 204 - SUBGRADE COMPACTION

BENCHMARK #1	ELEV:752.81
X CUT IN NE CORNER OF NE SIGNAL POLE FOUNDATION OF PRINCETON ROAD AND GILMORE ROAD INTERSECTION	
BENCHMARK #2	ELEV:766.85
MAG NAIL IN POLE 93' NE OF BRIDGEWATER CHURCH BRICK SIGN.	

SCALE IN FEET
0 15 30 60

BUTLER COUNTY HW
INV. 740.55
W/ 154 SF TYPE B ROCK CHANNEL
PROTECTION (30" THICK)

24"
MH TYPE 3: D12
SW
TYPE 3: D2
MH TYPE 3: D3
MH TYPE 3: D11
FH Assembly
Sta. 13+40, 16' LT.
TYPE 3 SAN MH: S2
PC Sta. 13+01.22
TYPE 3 SAN MH: S1
PI Sta. 12+65.69
Ex U
8"
PT Sta. 14+47.56
MH TYPE 3: D5
MH TYPE 3: D6
21' - 15" Type B @ 0.72%
8" WATER
TYPE 3A: D8
8' - 12" Type B @ -2.50%
MH TYPE 3: D9
FH Assembly
Sta. 18+22, 22.5' LT.
PI Sta. 18+56.15
15" CPSLP
A0300172000002
BRIDGEWATER CHURCH
3100 PRINCETON ROAD
A0300222000044
BRIDGEWATER CHURCH
3100 PRINCETON ROAD
1 STORY FRAME COMMERCIAL
GILMORE ROAD
S84° 25' 54"E
TYPE 3 SAN MH: S3
TYPE 3 SAN MH: S4
TYPE 3: D4
TYPE 3: D7
4" PVC
4" CPP
TYPE 3 SAN MH: S5
20' - 15" Type B @ 2.50%
TYPE 3: D10
+10.0, 53'
1" Wat. Serv.
+40.0, 53'
1" Wat. Serv.
+25.0, 53'
1" Wat. Serv.
ASPHALT PVMT.
A0300172000001
CASEYS MARKETING COMPANY
PRINCETON ROAD
PROPOSED 2 x 15' GAS CANOPY
GRAVEL PVMT.
N05° 41' 40"E
GILMORE ROAD
12" CPSLP
Ex. S/W
41'-12" Type B @ 1.00%
TYPE 3A: D1
12" CPSLP
BM #1
Ex R/W
PRINCETON ROAD
18" CPP

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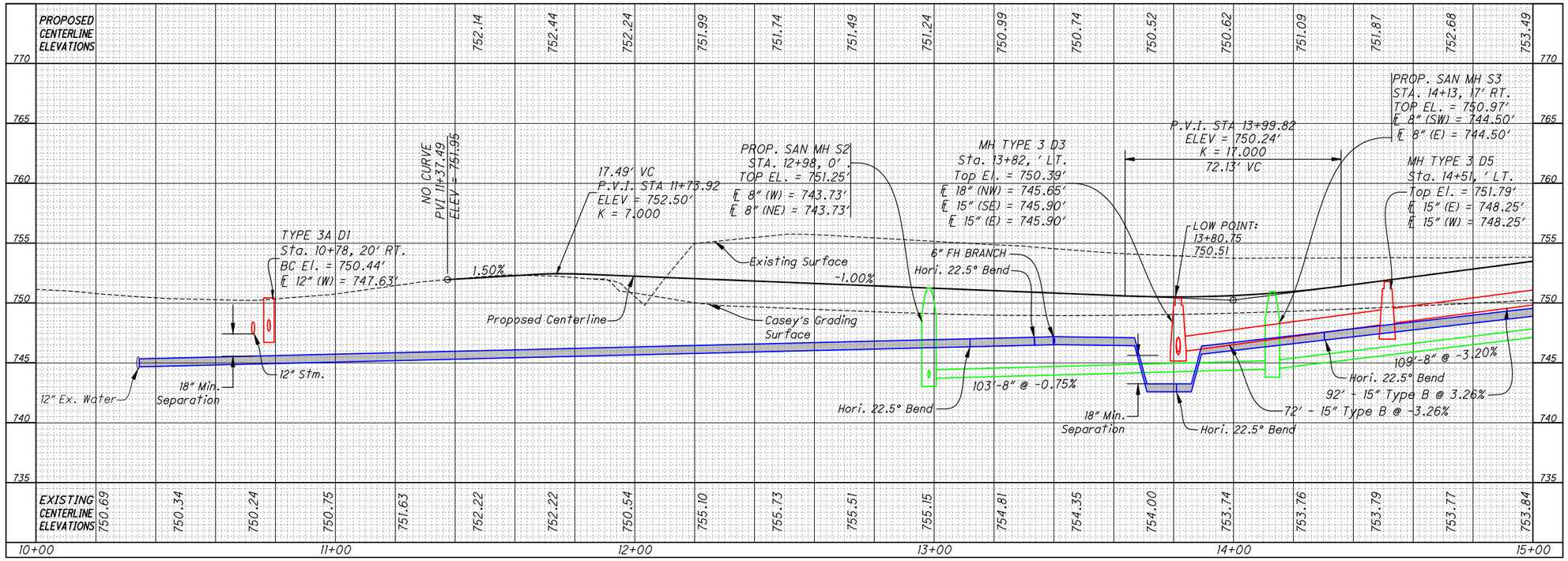
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BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
UTILITY PLAN

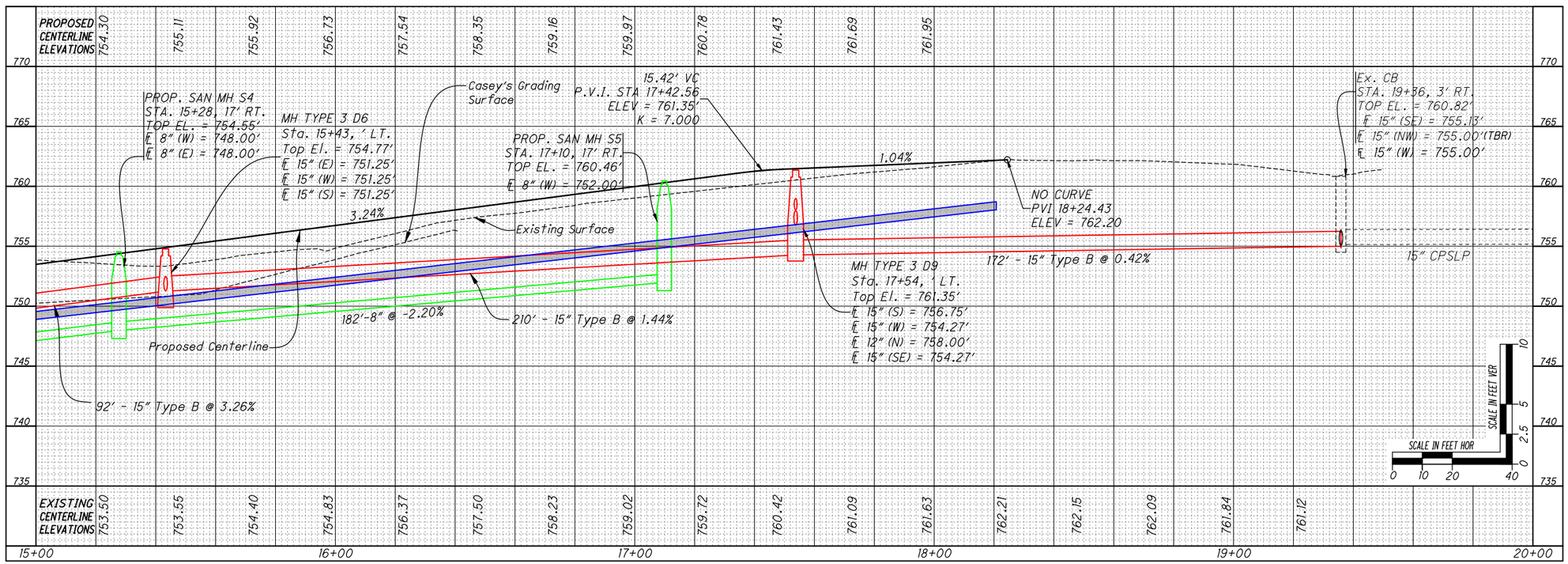
REVISIONS:

FILE NAME
UTILITY
DRAWN BY
WJW
CHECKED BY
MLS
PROJECT No.
BUT-FAT-2201
DATE
7-11-2022
SHEET NUMBER
09 OF 13

GILMORE ROAD PROFILE STA. 10+00 TO STA. 15+00



GILMORE ROAD PROFILE STA. 15+00 TO STA. 19+00



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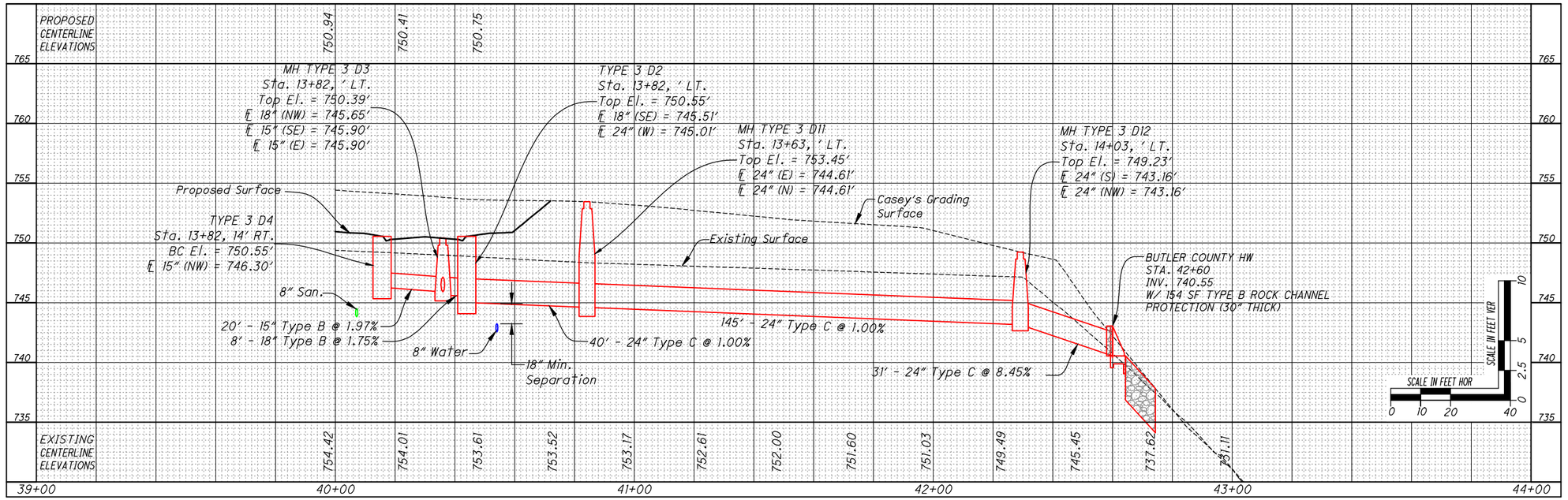
BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GILMORE ROAD PROFILE

REVISIONS:

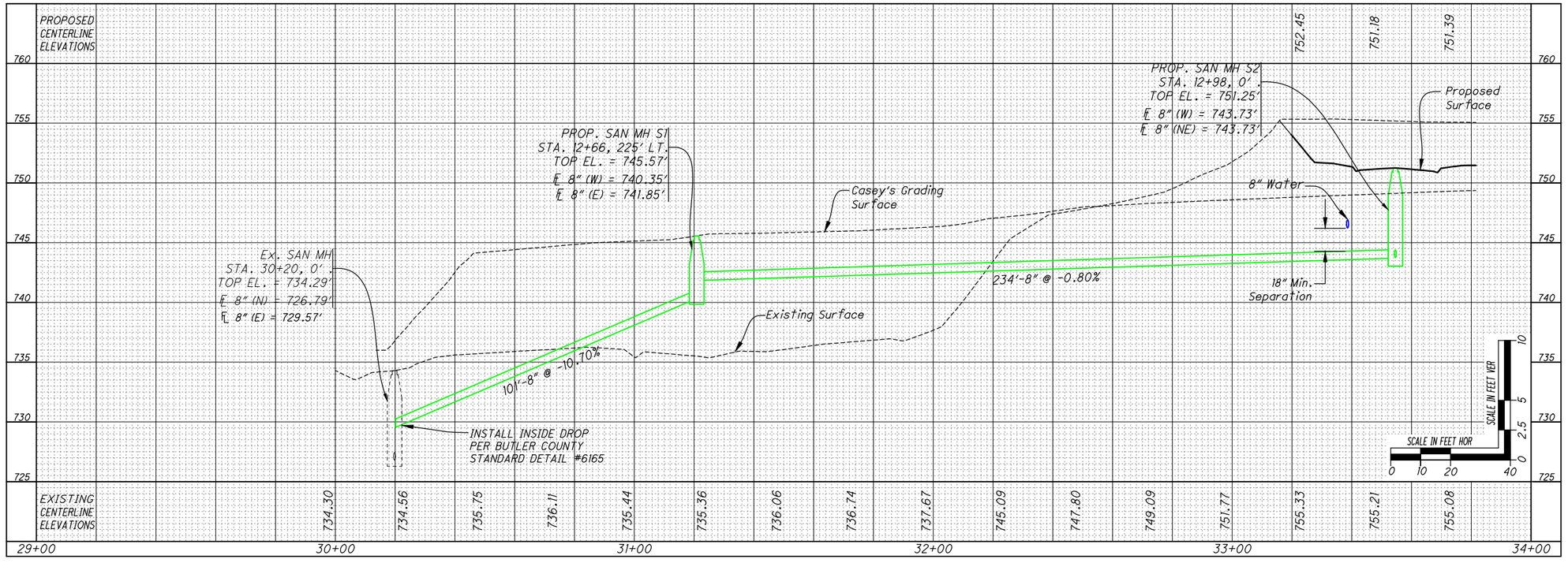
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DRAWN BY	WJW
CHECKED BY	MLS
PROJECT No.	BUT-FAT-2201
DATE	7-11-2022
SHEET NUMBER	10 OF 13

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STORM PROFILE STA. 39+00 TO STA. 44+00



SANITARY PROFILE STA. 39+00 TO STA. 44+00



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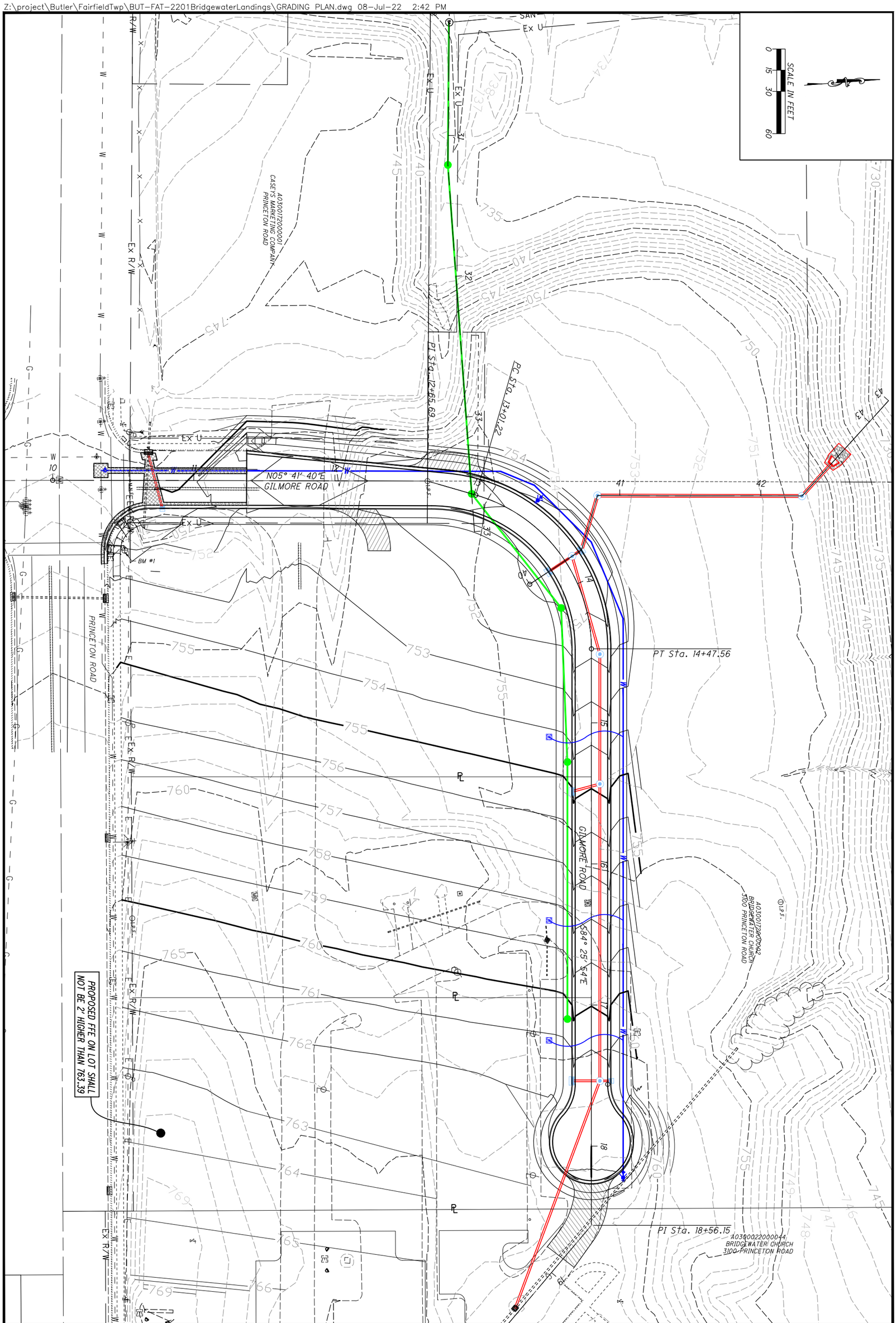
BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
STORM AND SANITARY OUTLET PROFILES

REVISIONS:

FILE NAME	STM-P
DRAWN BY	WJW
CHECKED BY	MLS
PROJECT No.	BUT-FAT-2201
DATE	7-11-2022
SHEET NUMBER	11 OF 13

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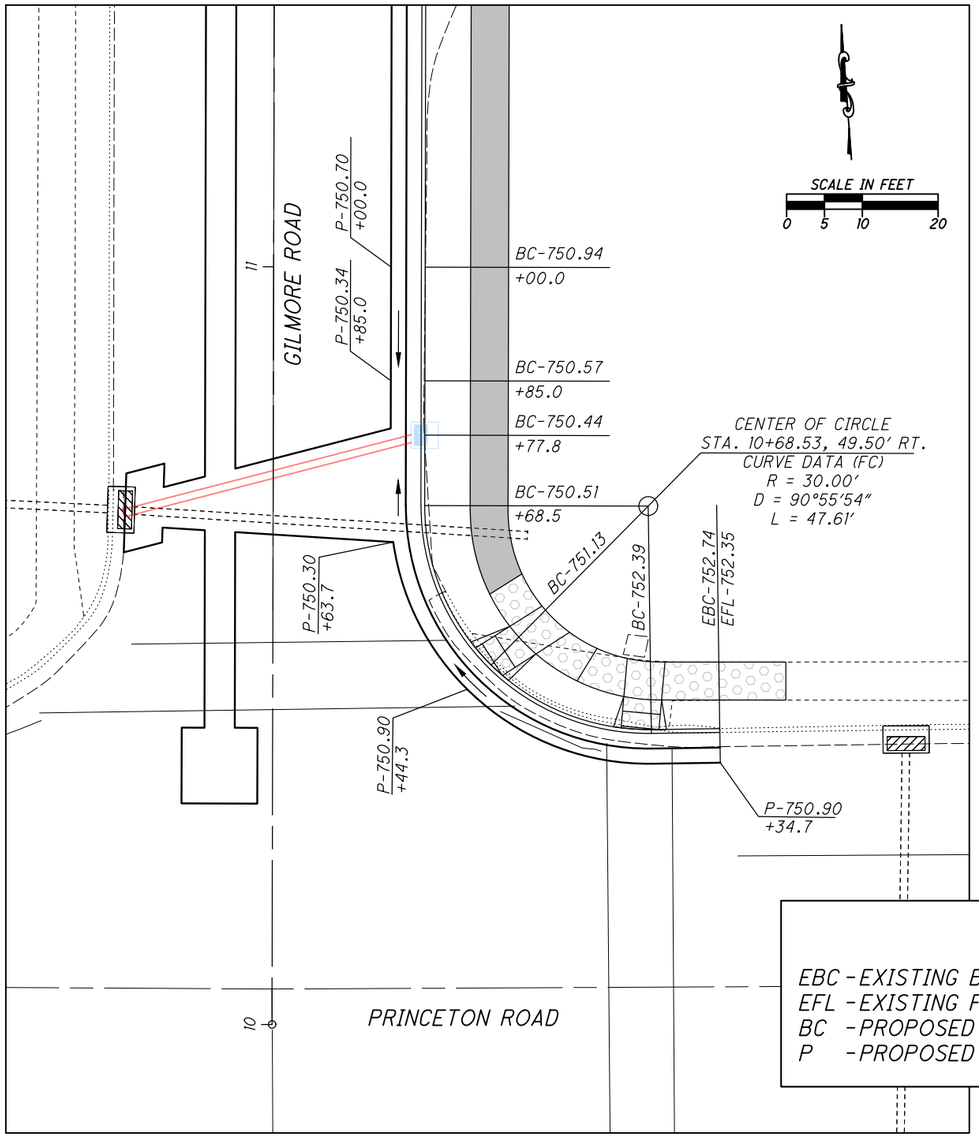
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SHEET NUMBER	12 OF 13
DATE	7-11-2022
PROJECT No.	BUT-FAT-2201
CHECKED BY	MLS
DRAWN BY	WJW
FILE NAME	GRADE
REVISIONS:	

BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
GRADING PLAN

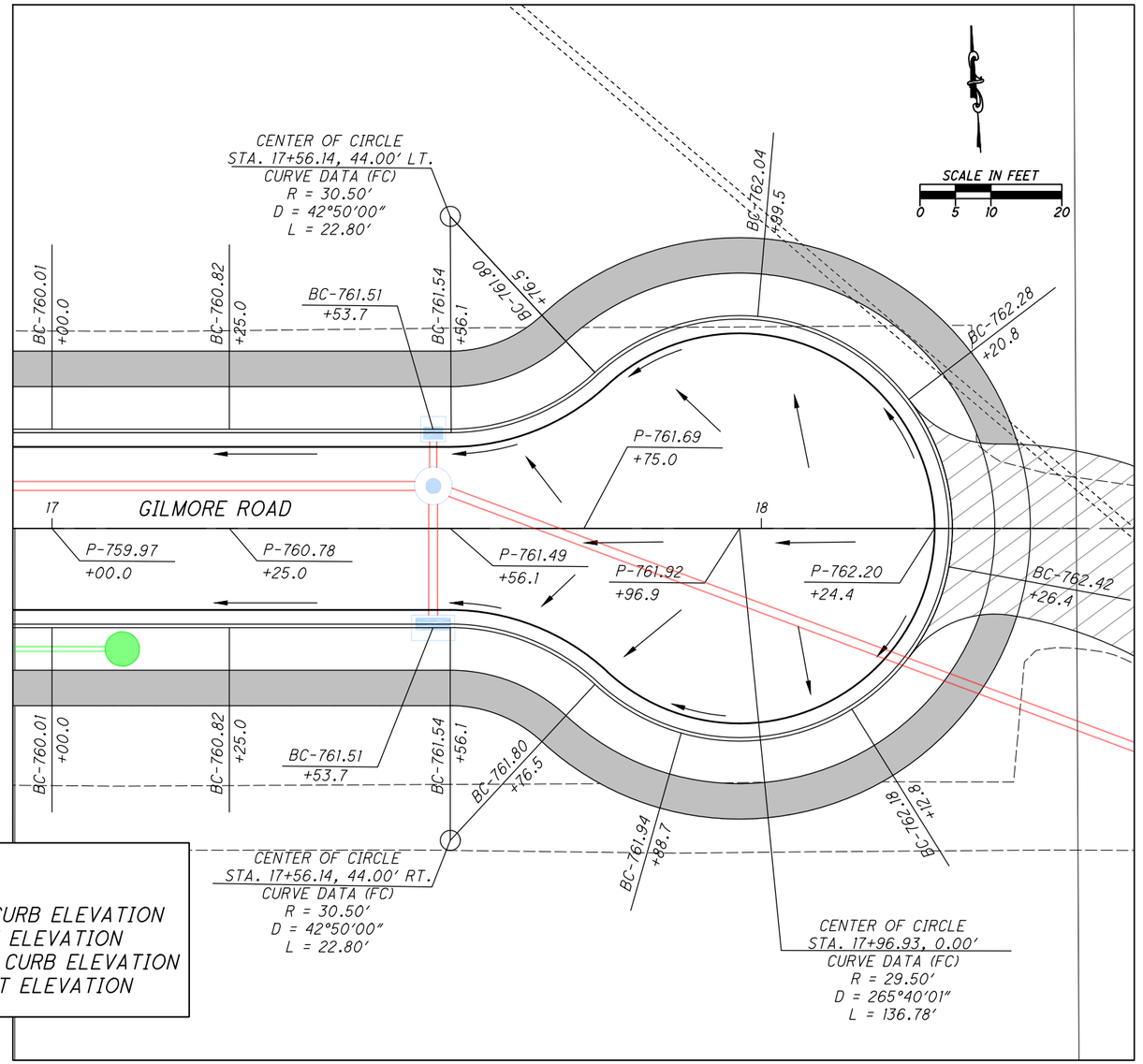
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GILMORE ROAD AND PRINCETON ROAD INTERSECTION

LEGEND

EBC - EXISTING BACK OF CURB ELEVATION
EFL - EXISTING FLOW LINE ELEVATION
BC - PROPOSED BACK OF CURB ELEVATION
P - PROPOSED PAVEMENT ELEVATION



GILMORE ROAD CUL-DE-SAC

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BRIDGEWATER LANDINGS
FAIRFIELD TOWNSHIP
INTERSECTION DETAILS

REVISIONS:

FILE NAME	INT
DRAWN BY	WJW
CHECKED BY	MLS
PROJECT No.	BUT-FAT-2201
DATE	7-11-2022
SHEET NUMBER	13 OF 13

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